January 10, 2019

VIA E-MAIL: John.Grathwol@dec.ny.gov

John Grathwol, P.E.
Professional Engineer 1
NYS Department of Environmental Conservation
Division of Environmental Remediation, Bureau B
625 Broadway, 12th Floor
Albany, New York 12233-7016

RE: Additional Site Characterization
700 Smith Boulevard at the Port of Albany
NYSDEC Spill No. 1405730

Dear Mr. Grathwol:

Thank you for your letter of October 3, 2018 in which you indicated that the Department does not have any comments on the additional site characterization work plan. At that time you also asked for sampling of catch basin sediments for the full TCL/TAL parameters to help the Department confirm that offsite impacts are not a significant concern.

As you know, the sampling of catch basins was completed on November 29th and 30th and samples were sent out at that time for analysis. The catch basin sediment analysis is now complete and we can confirm that offsite impacts through the catch basin sediments are not a significant concern at this industrial site. Find attached Table 1 which provides a sample summary, and Figure 1 showing the sample locations. The Category B Laboratory Report and Data Usability Summary Report (DUSR) are provided as Attachment A and Attachment B, respectively. As you will see, we did get a number of detections and for review have compared the results to the restricted industrial use soil cleanup objectives (SCOs).

We also provide this following summary of the observations made at each catch basin location during the sampling effort.

- Location CB-01 was observed to be a manhole structure with a steel manhole cover lid, which was open on the day of sampling. Much of the soil surrounding the sides of the manhole and basin have been removed. An invert was observed to be present on the north side of the catch basin. No standing water was observed inside the basin and there does not appear to be any flow through of water occurring at the present time. CHA biased the collection of sediment material to the area around the effluent drain.
- Location CB-02 was observed to be a catch basin or manhole structure with a damaged top portion, currently open and at present grade. The inside of the basin was filled with soil, leaf litter, and was growing vegetation and trees, some of which CHA physically removed by hand to facilitate sample collection. No inverts were observed. No standing water was observed inside the basin and there does not appear to be any flow through of water occurring at the present time.
- Location CB-03 was observed to be an active catch basin with one invert on the southwest end of the basin. The invert is elbowed down/baffled. A few inches of organic-rich sediment material were noted to be present at the bottom of the catch basin covered by several inches of standing water.

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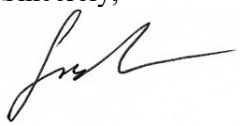
- Location CB-04 was observed to be an active catch basin with one invert situated on the east end of the basin. The invert is elbowed down/baffled. Sediment material was relatively sparse and largely consisted of degraded leaf litter and gravel. Several inches of standing water were observed in the basin.
- Location CB-05 consists of an open top steel cylinder that appeared to be placed over a manhole to provide protection to the manhole. The manhole cover is approximately 2 feet below grade within the cylinder. APDC personnel entered the vault to remove the manhole cover, which revealed a concrete vault below grade. The vault contains electrical wires and approximately 1 foot of standing water, whereupon a solid bottom was encountered. The vault was not observed to contain any subsurface effluent or influent piping. Only sparse sediment sample material consisting of decayed vegetation was noted to be present. CHA collected sufficient sample volume material to analyze the sample material for PCBs only. There was insufficient material present on the floor of the vault to allow for the other parameter analyses. Based on the conditions encountered, including lack of any observed influent/effluent piping inverts, large amount of wiring present, and historical location of the site's emergency backup generator in the vicinity, it has been concluded that this location is an electrical-related vault and not a storm water or sanitary sewer basin, as was previously suspected.

There are really three conditions observed. CB-01 & 02 which appear to have soil/sediment, possibly from the surface soils as both are currently open; CB-03 & 04 which receive surface flow from the paved areas in the southwest corner of the site and presently are operating as catch basins and were observed to have water present, but minimal sediment; and CB-05 is not a catch basin at all, but appears to be an electrical vault with no inverts.

Based upon these observations, the only operative catch basins onsite are CB-03 and CB-04. Both of these structures demonstrate compliance with the industrial soil cleanup objectives. In closing and based on the observations and analytical results presented, no remediation of any of the structures observed and sampled is considered necessary, nor is it recommended.

Should you have any questions, please do not hesitate to contact Seth Fowler at (518) 453-4547 or sfowler@chacompanies.com.

Sincerely,



Seth H. Fowler
Principal Scientist

JM/SHF/bc
V:\Projects\ANY\K3\28952\Reports\2018 Catch Basin Sampling\Letter to DEC 2019-01-07\Letter to NYSDEC - Catch Basin Sample Results 2019-01-08 FINAL.doc

CC: J. Haklar, USEPA
G. Burke, Director, Remedial Bureau B
J. Greco, Chief, Remedial Section C
R. Mustico, Region 4 RHWE
Richard Hendrick – Albany Port District Commission
Patrick Jordan – Albany Port District Commission
John Privitera – McNamee Lochner P.C.

ENCLOSURES:

Figure 1: Catch Basin Sampling Locations, November 2018

Table 1:	Summary of Catch Basin Sediment Sample Analytical Results, November 2018
Attachment A:	Alpha Analytical Category B Laboratory Report
Attachment B:	Alpha Geoscience Data Usability Summary Report

Tables

Table 1
Summary of Catch Basin Sediment Sample Analytical Results - November 2018
700 Smith Boulevard
Port of Albany, NY

LOCATION				CB-01		CB-02		CB-02		CB-03		DUP-18*		CB-04		CB-05	
SAMPLING DATE				11/30/2018		11/30/2018		11/30/2018		11/30/2018		11/30/2018		11/30/2018		11/29/2018	
LAB SAMPLE ID				L1849060-05		L1849060-02		L1849060-02 R1		L1849060-03		L1849060-06		L1849060-04		L1849060-01	
SAMPLE TYPE				SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
SAMPLE DEPTH (ft.)																	
	CasNum	NY-IND SCO	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
General Chemistry																	
Solids, Total	NONE		%	73		66.3		-	-	49.9		48.8		86.4		23.8	
Cyanide, Total	57-12-5	10000	mg/kg	0.97	J	0.86	J	-	-	0.67	J	1.2	J	1.1	UJ	-	-
Organochlorine Pesticides by GC																	
Delta-BHC	319-86-8	1000	mg/kg	0.00217	U	0.00236	U	-	-	0.00851	U	0.00821	U	0.00175	U	-	-
Lindane	58-89-9	23	mg/kg	0.000905	U	0.000984	U	-	-	0.00355	U	0.00342	U	0.000729	U	-	-
Alpha-BHC	319-84-6	6.8	mg/kg	0.000905	U	0.000984	U	-	-	0.00355	U	0.00342	U	0.000729	U	-	-
Beta-BHC	319-85-7	14	mg/kg	0.00217	U	0.00236	U	-	-	0.00851	U	0.00821	U	0.00175	U	-	-
Heptachlor	76-44-8	29	mg/kg	0.00108	U	0.00118	U	-	-	0.00426	U	0.0041	U	0.000875	U	-	-
Aldrin	309-00-2	1.4	mg/kg	0.00217	U	0.00236	U	-	-	0.00851	U	0.00821	U	0.00175	U	-	-
Heptachlor epoxide	1024-57-3		mg/kg	0.00407	U	0.00443	U	-	-	0.016	U	0.0154	U	0.00328	U	-	-
Endrin	72-20-8	410	mg/kg	0.0516	J	0.03	IPJ	-	-	0.0163		0.0169		0.00315	IPJ	-	-
Endrin aldehyde	7421-93-4		mg/kg	0.00271	U	0.00295	U	-	-	0.0106	U	0.0103	U	0.00219	U	-	-
Endrin ketone	53494-70-5		mg/kg	0.00217	U	0.00236	U	-	-	0.00851	U	0.00821	U	0.00175	U	-	-
Dieldrin	60-57-1	2.8	mg/kg	0.00136	U	0.00148	U	-	-	0.00532	U	0.00513	U	0.00109	U	-	-
4,4'-DDE	72-55-9	120	mg/kg	0.00217	U	0.00236	U	-	-	0.00851	U	0.00821	U	0.00175	U	-	-
4,4'-DDD	72-54-8	180	mg/kg	0.00217	U	0.00236	U	-	-	0.00851	U	0.00821	U	0.00175	U	-	-
4,4'-DDT	50-29-3	94	mg/kg	0.00407	U	0.00443	U	-	-	0.016	U	0.0154	U	0.00328	U	-	-
Endosulfan I	959-98-8	920	mg/kg	0.00217	U	0.00236	U	-	-	0.00851	U	0.00821	U	0.00175	U	-	-
Endosulfan II	33213-65-9	920	mg/kg	0.00217	U	0.00236	U	-	-	0.00851	U	0.00821	U	0.00175	U	-	-
Endosulfan sulfate	1031-07-8	920	mg/kg	0.000905	U	0.000984	U	-	-	0.00355	U	0.00342	U	0.000729	U	-	-
Methoxychlor	72-43-5		mg/kg	0.00407	U	0.00443	U	-	-	0.016	U	0.0289		0.00328	U	-	-
Toxaphene	8001-35-2		mg/kg	0.0407	U	0.0443	U	-	-	0.16	U	0.154	U	0.0328	U	-	-
cis-Chlordane	5103-71-9	47	mg/kg	0.00271	U	0.00295	U	-	-	0.0106	U	0.0103	U	0.00219	U	-	-
trans-Chlordane	5103-74-2		mg/kg	0.00271	U	0.00295	U	-	-	0.0106	U	0.0103	U	0.00219	U	-	-
Chlordane	57-74-9		mg/kg	0.0176	U	0.0192	U	-	-	0.0692	U	0.0667	U	0.0142	U	-	-
Polychlorinated Biphenyls by GC																	
Aroclor 1016	12674-11-2	25	mg/kg	0.908	U	0.491	U	-	-	0.172	U	0.173	U	0.0382	U	0.136	U
Aroclor 1221	11104-28-2	25	mg/kg	0.908	U	0.491	U	-	-	0.172	U	0.173	U	0.0382	U	0.136	U
Aroclor 1232	11141-16-5	25	mg/kg	0.908	U	0.491	U	-	-	0.172	U	0.173	U	0.0382	U	0.136	U
Aroclor 1242	53469-21-9	25	mg/kg	0.908	U	0.491	U	-	-	0.901		0.662		0.0528		0.136	U
Aroclor 1248	12672-29-6	25	mg/kg	0.908	U	0.491	U	-	-	0.172	U	0.173	U	0.0382	U	0.136	U
Aroclor 1254	11097-69-1	25	mg/kg	7.32		4.66		-	-	2.05		1.62		0.204		2.06	
Aroclor 1260	11096-82-5	25	mg/kg	3.01		2.08		-	-	1.59	J	1.01	IJ	0.121	IJ	1.5	
Aroclor 1262	37324-23-5	25	mg/kg	0.908	U	0.491	U	-	-	0.172	U	0.173	U	0.0382	U	0.136	U
Aroclor 1268	11100-14-4	25	mg/kg	0.908	U	0.491	U	-	-	0.172	U	0.173	U	0.0382	U	0.136	U
PCBs, Total	1336-36-3	25	mg/kg	10.3		6.74		-	-	4.54	J	3.29	IJ	0.378	IJ	3.56	
Semivolatile Organics by GC/MS																	
Acenaphthene	83-32-9	1000	mg/kg	0.18	U	0.14	J	-	-	1.3	U	1.3	U	0.021	J	-	-
Hexachlorobenzene	118-74-1	12	mg/kg	0.14	U	0.15	U	-	-	0.98	U	1	U	0.11	U	-	-
Bis(2-chloroethyl)ether	111-44-4		mg/kg	0.2	U	0.22	U	-	-	1.5	U	1.5	U	0.17	U	-	-
2-Chloronaphthalene	91-58-7		mg/kg	0.23	U	0.25	U	-	-	1.6	U	1.7	U	0.19	U	-	-
3,3'-Dichlorobenzidine	91-94-1		mg/kg	0.23	U	0.25	U	-	-	*1.6*	*UR*	1.7	U	0.19	U	-	-
2,4-Dinitrotoluene	121-14-2		mg/kg	0.23	U	0.25	U	-	-	1.6	UJ	1.7	U	0.19	U	-	-
2,6-Dinitrotoluene	606-20-2		mg/kg	0.23	U	0.25	U	-	-	1.6	UJ	1.7	U	0.19	U	-	-
Fluoranthene	206-44-0	1000	mg/kg	0.42		2.3		-	-	3	J	2.1		0.34		-	-
4-Chlorophenyl phenyl ether	7005-72-3		mg/kg	0.23	U	0.25	U	-	-	1.6	U	1.7	U	0.19	U	-	-
4-Bromophenyl phenyl ether	101-55-3		mg/kg	0.23	U	0.25	U	-	-	1.6	U	1.7	U	0.19	U	-	-
Bis(2-chloroisopropyl)ether	108-60-1		mg/kg	0.27	U	0.3	U	-	-	2	UJ	2	U	0.22	U	-	-
Bis(2-chloroethoxy)methane	111-91-1		mg/kg	0.25	U	0.27	U	-	-	1.8	U	1.8	U	0.2	U	-	-
Hexachlorobutadiene	87-68-3		mg/kg	0.23	U	0.25	U	-	-	1.6	U	1.7	U	0.19	U	-	-
Hexachlorocyclopentadiene	77-47-4		mg/kg	0.65	U	0.71	U	-	-	*4.7*	*UR*	4.8	U	0.54	U	-	-

Table 1
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700 Smith Boulevard
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	LOCATION				CB-01		CB-02		CB-02		CB-03		DUP-18*		CB-04		CB-05	
	SAMPLING DATE				11/30/2018		11/30/2018		11/30/2018		11/30/2018		11/30/2018		11/30/2018		11/29/2018	
	LAB SAMPLE ID				L1849060-05		L1849060-02		L1849060-02 R1		L1849060-03		L1849060-06		L1849060-04		L1849060-01	
	SAMPLE TYPE				SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	SAMPLE DEPTH (ft.)																	
		CasNum	NY-IND SCO	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
	Hexachloroethane	67-72-1		mg/kg	0.18	U	0.2	U	-	-	1.3	UJ	1.3	U	0.15	U	-	-
	Isophorone	78-59-1		mg/kg	0.2	U	0.22	U	-	-	1.5	U	1.5	U	0.17	U	-	-
	Naphthalene	91-20-3	1000	mg/kg	0.12	J	0.3		-	-	0.34	J	1	J	0.03	J	-	-
	Nitrobenzene	98-95-3		mg/kg	0.2	U	0.22	U	-	-	1.5	UJ	1.5	U	0.17	U	-	-
	NDPA/DPA	86-30-6		mg/kg	0.18	U	0.038	J	-	-	1.3	U	1.3	U	0.15	U	-	-
	n-Nitrosodi-n-propylamine	621-64-7		mg/kg	0.23	U	0.25	U	-	-	1.6	U	1.7	U	0.19	U	-	-
	Bis(2-ethylhexyl)phthalate	117-81-7		mg/kg	1.4		20	EJ	43		33	J	28		0.25		-	-
	Butyl benzyl phthalate	85-68-7		mg/kg	2.5		0.98		-	-	1.6	U	1.3	J	0.19	U	-	-
	Di-n-butylphthalate	84-74-2		mg/kg	0.46		0.67		-	-	1.6	U	2.3		0.19	U	-	-
	Di-n-octylphthalate	117-84-0		mg/kg	0.23	U	0.48		-	-	1.6	UJ	1.7	U	0.19	U	-	-
	Diethyl phthalate	84-66-2		mg/kg	0.23	U	0.25	U	-	-	1.6	U	1.7	U	0.19	U	-	-
	Dimethyl phthalate	131-11-3		mg/kg	0.23	U	0.39		-	-	1.6	U	1.7	U	0.19	U	-	-
	Benzo(a)anthracene	56-55-3	11	mg/kg	0.24		1.3		-	-	1.2	J	0.68	J	0.15		-	-
	Benzo(a)pyrene	50-32-8	1.1	mg/kg	0.28		1.5		-	-	1	J	0.67	J	0.15		-	-
	Benzo(b)fluoranthene	205-99-2	11	mg/kg	0.52		2.1		-	-	2.4	J	1.6	J	0.25		-	-
	Benzo(k)fluoranthene	207-08-9	110	mg/kg	0.14		0.7		-	-	0.73	J	0.6	J	0.091	J	-	-
	Chrysene	218-01-9	110	mg/kg	0.29		1.3		-	-	1.9	J	1.3	J	0.2		-	-
	Acenaphthylene	208-96-8	1000	mg/kg	0.12	J	0.26		-	-	1.3	U	1.3	U	0.15	U	-	-
	Anthracene	120-12-7	1000	mg/kg	0.14		0.54		-	-	0.42	J	1	U	0.055	J	-	-
	Benzo(ghi)perylene	191-24-2	1000	mg/kg	0.47		1.4		-	-	1	J	0.68	J	0.13	J	-	-
	Fluorene	86-73-7	1000	mg/kg	0.039	J	0.18	J	-	-	0.19	J	1.7	U	0.032	J	-	-
	Phenanthrene	85-01-8	1000	mg/kg	0.28		1.4		-	-	1.8	J	1.1	J	0.22		-	-
	Dibenzo(a,h)anthracene	53-70-3	1.1	mg/kg	0.077	J	0.29		-	-	0.26	J	1	U	0.032	J	-	-
	Indeno(1,2,3-cd)pyrene	193-39-5	11	mg/kg	0.36		1.4		-	-	1.1	J	0.73	J	0.13	J	-	-
	Pyrene	129-00-0	1000	mg/kg	0.39		2		-	-	2.5	J	1.7	J	0.28		-	-
	Biphenyl	92-52-4		mg/kg	0.52	U	0.066	J	-	-	3.7	U	3.8	U	0.43	U	-	-
	4-Chloroaniline	106-47-8		mg/kg	0.23	U	0.25	U	-	-	1.6	UJ	1.7	U	0.19	U	-	-
	2-Nitroaniline	88-74-4		mg/kg	0.23	U	0.25	U	-	-	1.6	UJ	1.7	U	0.19	U	-	-
	3-Nitroaniline	99-09-2		mg/kg	0.23	U	0.25	U	-	-	*1.6*	*UR*	1.7	U	0.19	U	-	-
	4-Nitroaniline	100-01-6		mg/kg	0.23	U	0.25	U	-	-	*1.6*	*UR*	1.7	U	0.19	U	-	-
	Dibenzofuran	132-64-9	1000	mg/kg	0.044	J	0.11	J	-	-	1.6	U	1.7	U	0.025	J	-	-
	2-Methylnaphthalene	91-57-6		mg/kg	0.14	J	0.34		-	-	0.26	J	0.3	J	0.028	J	-	-
	1,2,4,5-Tetrachlorobenzene	95-94-3		mg/kg	0.23	U	0.25	U	-	-	1.6	U	1.7	U	0.19	U	-	-
	Acetophenone	98-86-2		mg/kg	0.13	J	0.24	J	-	-	1.6	U	1.7	U	0.025	J	-	-
	2,4,6-Trichlorophenol	88-06-2		mg/kg	0.14	U	0.15	U	-	-	0.98	U	1	U	0.11	U	-	-
	p-Chloro-m-cresol	59-50-7		mg/kg	0.23	U	0.25	U	-	-	1.6	U	1.7	U	0.19	U	-	-
	2-Chlorophenol	95-57-8		mg/kg	0.23	U	0.25	U	-	-	1.6	U	1.7	U	0.19	U	-	-
	2,4-Dichlorophenol	120-83-2		mg/kg	0.2	U	0.22	U	-	-	1.5	U	1.5	U	0.17	U	-	-
	2,4-Dimethylphenol	105-67-9		mg/kg	0.23	U	0.25	U	-	-	1.6	U	1.7	U	0.19	U	-	-
	2-Nitrophenol	88-75-5		mg/kg	0.49	U	0.54	U	-	-	*3.5*	*UR*	3.6	U	0.4	U	-	-
	4-Nitrophenol	100-02-7		mg/kg	0.32	U	0.35	U	-	-	*2.3*	*UR*	2.4	U	0.26	U	-	-
	2,4-Dinitrophenol	51-28-5		mg/kg	1.1	U	1.2	U	-	-	*7.9*	*UR*	8.1	U	0.9	U	-	-
	4,6-Dinitro-o-cresol	534-52-1		mg/kg	0.59	U	0.64	U	-	-	*4.3*	*UR*	4.4	U	0.49	U	-	-
	Pentachlorophenol	87-86-5	55	mg/kg	0.18	U	0.2	U	-	-	1.3	U	1.3	U	0.15	U	-	-
	Phenol	108-95-2	1000	mg/kg	0.071	J	0.16	J	-	-	0.38	J	0.7	J	0.14	J	-	-
	2-Methylphenol	95-48-7	1000	mg/kg	0.23	U	0.25	U	-	-	1.6	U	1.7	U	0.19	U	-	-
	3-Methylphenol/4-Methylphenol	108-39-4	1000	mg/kg	0.062	J	0.088	J	-	-	6.9	J	6.9		0.27	U	-	-
	2,4,5-Trichlorophenol	95-95-4		mg/kg	0.23	U	0.25	U	-	-	1.6	U	1.7	U	0.19	U	-	-
	Carbazole	86-74-8		mg/kg	0.056	J	0.23	J	-	-	0.31	J	0.2	J	0.026	J	-	-
	Atrazine	1912-24-9		mg/kg	0.18	U	0.2	U	-	-	*1.3*	*UR*	1.3	U	0.15	U	-	-
	Benzaldehyde	100-52-7		mg/kg	0.2	J	0.33	U	-	-	2.2	U	0.64	J	0.11	J	-	-
	Caprolactam	105-60-2		mg/kg	0.23	U	0.29		-	-	1.6	U	1.7	U	0.19	U	-	-

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Summary of Catch Basin Sediment Sample Analytical Results - November 2018
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Port of Albany, NY

LOCATION				CB-01		CB-02		CB-02		CB-03		DUP-18*		CB-04		CB-05	
SAMPLING DATE				11/30/2018		11/30/2018		11/30/2018		11/30/2018		11/30/2018		11/30/2018		11/29/2018	
LAB SAMPLE ID				L1849060-05		L1849060-02		L1849060-02 R1		L1849060-03		L1849060-06		L1849060-04		L1849060-01	
SAMPLE TYPE				SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
SAMPLE DEPTH (ft.)																	
	CasNum	NY-IND SCO	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
2,3,4,6-Tetrachlorophenol	58-90-2		mg/kg	0.23	U	0.25	U	-	-	1.6	U	1.7	U	0.19	U	-	-
Total Metals																	
Aluminum, Total	7429-90-5		mg/kg	8970		11200		-	-	7340		6870	J	4200		-	-
Antimony, Total	7440-36-0		mg/kg	15.2		16.3		-	-	17.4		18.3	J	1.08	J	-	-
Arsenic, Total	7440-38-2	16	mg/kg	25.9		16		-	-	13.5		12.3	J	6.92		-	-
Barium, Total	7440-39-3	10000	mg/kg	305	J	410	J	-	-	233	J	162	J	98.9	J	-	-
Beryllium, Total	7440-41-7	2700	mg/kg	0.198	J	0.345	J	-	-	0.279	J	0.396	J	0.184	J	-	-
Cadmium, Total	7440-43-9	60	mg/kg	13.2	J	21.4	J	-	-	10.3	J	8.37	J	1.57	J	-	-
Calcium, Total	7440-70-2		mg/kg	8260	J	34200	J	-	-	33600	J	30200	J	77100	J	-	-
Chromium, Total	7440-47-3		mg/kg	91.8	J	150	J	-	-	189	J	172	J	25.2	J	-	-
Cobalt, Total	7440-48-4		mg/kg	16.3		21.4		-	-	11.2		11.2	J	5.6		-	-
Copper, Total	7440-50-8	10000	mg/kg	735	J	655	J	-	-	2700	J	3270	J	71.1	J	-	-
Iron, Total	7439-89-6		mg/kg	91700		82000		-	-	39300		37400	J	42200		-	-
Lead, Total	7439-92-1	3900	mg/kg	2060		1470		-	-	1340		1250	J	203		-	-
Magnesium, Total	7439-95-4		mg/kg	3390		7390		-	-	5310		4960	J	6320		-	-
Manganese, Total	7439-96-5	10000	mg/kg	1440		915		-	-	318		312	J	391		-	-
Mercury, Total	7439-97-6	5.7	mg/kg	7.43		7.5		-	-	2.4		2.57	J	0.425		-	-
Nickel, Total	7440-02-0	10000	mg/kg	104	J	140	J	-	-	152	J	150	J	22.3	J	-	-
Potassium, Total	7440-09-7		mg/kg	664		897		-	-	650		532	J	768		-	-
Selenium, Total	7782-49-2	6800	mg/kg	1.98	J	1.83	J	-	-	1.01	J	1.11	J	0.342	J	-	-
Silver, Total	7440-22-4	6800	mg/kg	1.33		3.09		-	-	14		14.1	J	0.869	J	-	-
Sodium, Total	7440-23-5		mg/kg	165	J	208	J	-	-	161	J	147	J	236		-	-
Thallium, Total	7440-28-0		mg/kg	2.57	J	0.464	J	-	-	3.1	UJ	3.16	UJ	1.76	UJ	-	-
Vanadium, Total	7440-62-2		mg/kg	56.7		58		-	-	37.9		34.9	J	16.8		-	-
Zinc, Total	7440-66-6	10000	mg/kg	1890		3940		-	-	1760		1750	J	331		-	-
Volatile Organics by GC/MS																	
Methylene chloride	75-09-2	1000	mg/kg	0.008	U	0.0082	U	-	-	0.01	UJ	0.012	U	0.0049	U	-	-
1,1-Dichloroethane	75-34-3	480	mg/kg	0.0016	U	0.0016	U	-	-	0.002	UJ	0.0024	U	0.00098	U	-	-
Chloroform	67-66-3	700	mg/kg	0.0024	U	0.0025	U	-	-	0.003	UJ	0.0035	U	0.0015	U	-	-
Carbon tetrachloride	56-23-5	44	mg/kg	0.0016	U	0.0016	U	-	-	0.002	UJ	0.0024	U	0.00098	U	-	-
1,2-Dichloropropane	78-87-5		mg/kg	0.0016	U	0.0016	U	-	-	0.002	UJ	0.0024	U	0.00098	U	-	-
Dibromochloromethane	124-48-1		mg/kg	0.0016	U	0.0016	U	-	-	0.002	UJ	0.0024	U	0.00098	U	-	-
1,1,2-Trichloroethane	79-00-5		mg/kg	0.0016	U	0.0016	U	-	-	0.002	UJ	0.0024	U	0.00098	U	-	-
Tetrachloroethene	127-18-4	300	mg/kg	0.0008	U	0.00082	U	-	-	0.001	UJ	0.0012	U	0.00049	U	-	-
Chlorobenzene	108-90-7	1000	mg/kg	0.0008	U	0.00082	U	-	-	0.001	UJ	0.0012	U	0.00049	U	-	-
Trichlorofluoromethane	75-69-4		mg/kg	0.0064	U	0.0066	U	-	-	0.0081	UJ	0.0094	U	0.0039	U	-	-
1,2-Dichloroethane	107-06-2	60	mg/kg	0.0016	U	0.0016	U	-	-	0.002	UJ	0.0024	U	0.00098	U	-	-
1,1,1-Trichloroethane	71-55-6	1000	mg/kg	0.0008	U	0.00082	U	-	-	0.001	UJ	0.0012	U	0.00049	U	-	-
Bromodichloromethane	75-27-4		mg/kg	0.0008	U	0.00082	U	-	-	0.001	UJ	0.0012	U	0.00049	U	-	-
trans-1,3-Dichloropropene	10061-02-6		mg/kg	0.0016	U	0.0016	U	-	-	0.002	UJ	0.0024	U	0.00098	U	-	-
cis-1,3-Dichloropropene	10061-01-5		mg/kg	0.0008	U	0.00082	U	-	-	0.001	UJ	0.0012	U	0.00049	U	-	-
Bromoform	75-25-2		mg/kg	0.0064	U	0.0066	U	-	-	0.0081	UJ	0.0094	U	0.0039	U	-	-
1,1,2,2-Tetrachloroethane	79-34-5		mg/kg	0.0008	U	0.00082	U	-	-	0.001	UJ	0.0012	U	0.00049	U	-	-
Benzene	71-43-2	89	mg/kg	0.0008	U	0.00082	U	-	-	0.001	UJ	0.0012	U	0.00049	U	-	-
Toluene	108-88-3	1000	mg/kg	0.0016	U	0.0016	U	-	-	0.004	J	0.006	J	0.00098	U	-	-
Ethylbenzene	100-41-4	780	mg/kg	0.0016	U	0.0016	U	-	-	0.002	UJ	0.00039	J	0.00098	U	-	-
Chloromethane	74-87-3		mg/kg	0.0064	U	0.0066	U	-	-	0.0081	U	0.0094	U	0.0039	U	-	-
Bromomethane	74-83-9		mg/kg	0.0032	U	0.0033	U	-	-	0.0041	U	0.0047	U	0.002	U	-	-
Vinyl chloride	75-01-4	27	mg/kg	0.0016	U	0.0016	U	-	-	0.002	U	0.0024	U	0.00098	U	-	-
Chloroethane	75-00-3		mg/kg	0.0032	U	0.0033	U	-	-	0.0041	U	0.0047	U	0.002	U	-	-
1,1-Dichloroethene	75-35-4	1000	mg/kg	0.0016	U	0.0016	U	-	-	0.002	UJ	0.0024	U	0.00098	U	-	-
trans-1,2-Dichloroethene	156-60-5	1000	mg/kg	0.0024	U	0.0025	U	-	-	0.003	UJ	0.0035	U	0.0015	U	-	-

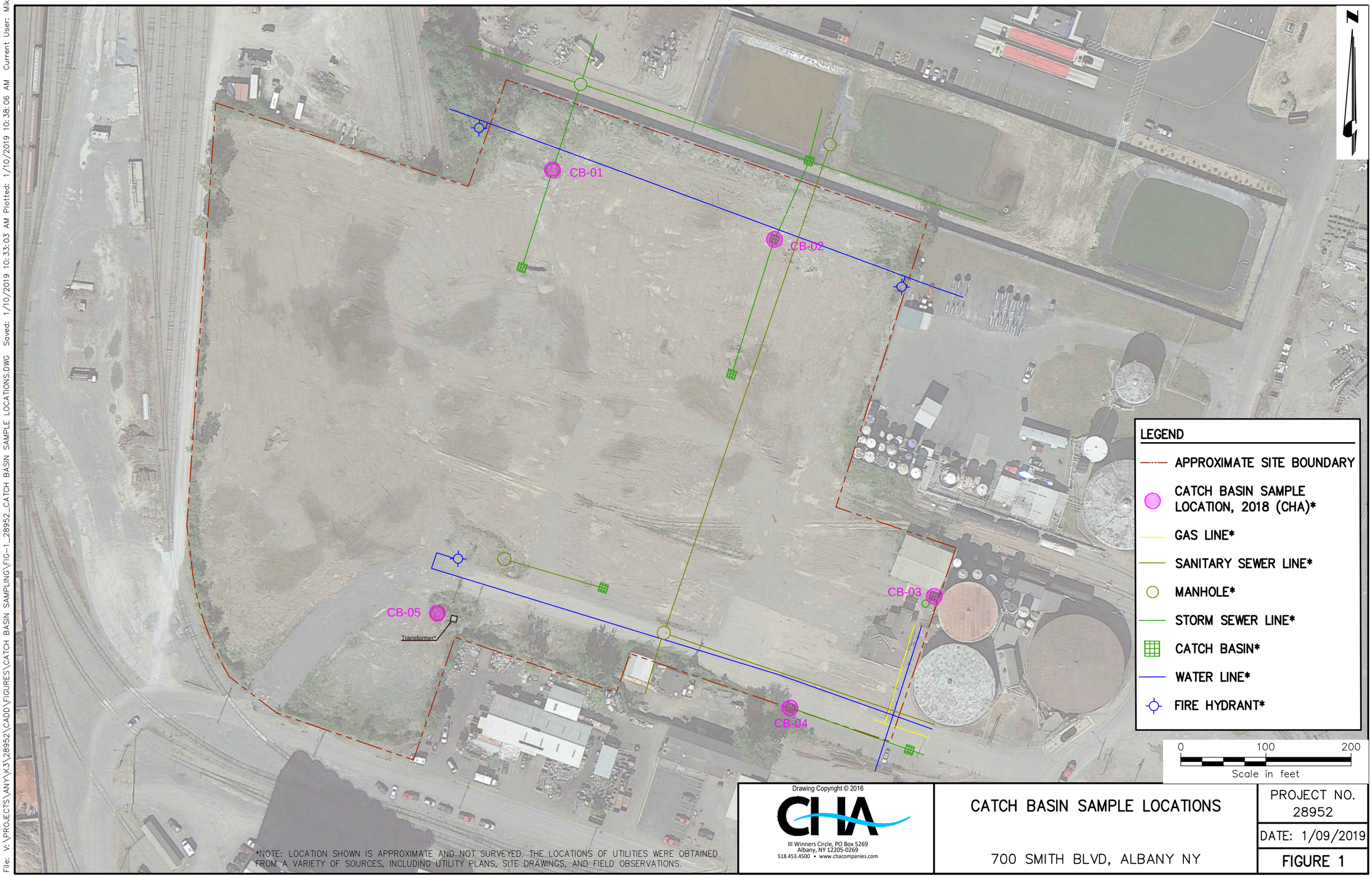
Table 1
Summary of Catch Basin Sediment Sample Analytical Results - November 2018
700 Smith Boulevard
Port of Albany, NY

	LOCATION				CB-01		CB-02		CB-02		CB-03		DUP-18*		CB-04		CB-05	
	SAMPLING DATE				11/30/2018		11/30/2018		11/30/2018		11/30/2018		11/30/2018		11/30/2018		11/29/2018	
	LAB SAMPLE ID				L1849060-05		L1849060-02		L1849060-02 R1		L1849060-03		L1849060-06		L1849060-04		L1849060-01	
	SAMPLE TYPE				SOIL		SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	SAMPLE DEPTH (ft.)																	
		CasNum	NY-IND SCO	Units	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual	Results	Qual
	Trichloroethene	79-01-6	400	mg/kg	0.0008	U	0.00082	U	-	-	0.001	UJ	0.0012	U	0.00049	U	-	-
	1,2-Dichlorobenzene	95-50-1	1000	mg/kg	0.0032	U	0.0033	U	-	-	0.0041	UJ	0.0047	U	0.002	U	-	-
	1,3-Dichlorobenzene	541-73-1	560	mg/kg	0.0032	U	0.0033	U	-	-	0.0041	UJ	0.0047	U	0.002	U	-	-
	1,4-Dichlorobenzene	106-46-7	250	mg/kg	0.0032	U	0.0033	U	-	-	0.0041	UJ	0.0047	U	0.002	U	-	-
	Methyl tert butyl ether	1634-04-4	1000	mg/kg	0.0032	U	0.0033	U	-	-	0.0041	U	0.0047	U	0.002	U	-	-
	p/m-Xylene	179601-23-1		mg/kg	0.0032	U	0.0033	U	-	-	0.0041	UJ	0.0047	U	0.002	U	-	-
	o-Xylene	95-47-6		mg/kg	0.0016	U	0.0016	U	-	-	0.002	UJ	0.0024	U	0.00098	U	-	-
	cis-1,2-Dichloroethene	156-59-2	1000	mg/kg	0.0016	U	0.0016	U	-	-	0.002	UJ	0.0024	U	0.00098	U	-	-
	Styrene	100-42-5		mg/kg	0.0016	U	0.0016	U	-	-	0.002	UJ	0.0024	U	0.00098	U	-	-
	Dichlorodifluoromethane	75-71-8		mg/kg	0.016	U	0.016	U	-	-	0.02	U	0.024	U	0.0098	U	-	-
	Acetone	67-64-1	1000	mg/kg	0.016	U	0.016	U	-	-	0.1	J	0.14	J	0.0098	U	-	-
	Carbon disulfide	75-15-0		mg/kg	0.016	U	0.016	U	-	-	0.02	UJ	0.024	U	0.0098	U	-	-
	2-Butanone	78-93-3	1000	mg/kg	0.016	U	0.016	U	-	-	0.023	J	0.035	J	0.0098	U	-	-
	4-Methyl-2-pentanone	108-10-1		mg/kg	0.016	U	0.016	U	-	-	0.02	UJ	0.024	U	0.0098	U	-	-
	2-Hexanone	591-78-6		mg/kg	0.016	U	0.016	U	-	-	0.02	UJ	0.024	U	0.0098	U	-	-
	Bromochloromethane	74-97-5		mg/kg	0.0032	U	0.0033	U	-	-	0.0041	UJ	0.0047	U	0.002	U	-	-
	1,2-Dibromoethane	106-93-4		mg/kg	0.0016	U	0.0016	U	-	-	0.002	UJ	0.0024	U	0.00098	U	-	-
	1,2-Dibromo-3-chloropropane	96-12-8		mg/kg	0.0048	U	0.0049	U	-	-	0.0061	UJ	0.0071	U	0.003	U	-	-
	Isopropylbenzene	98-82-8		mg/kg	0.0016	U	0.0016	U	-	-	0.002	UJ	0.0024	U	0.00098	U	-	-
	1,2,3-Trichlorobenzene	87-61-6		mg/kg	0.0032	U	0.0033	U	-	-	*0.0041*	*UR*	0.0047	U	0.002	U	-	-
	1,2,4-Trichlorobenzene	120-82-1		mg/kg	0.0032	U	0.0033	U	-	-	*0.0041*	*UR*	0.0047	U	0.002	U	-	-
	Methyl Acetate	79-20-9		mg/kg	0.0064	U	0.0066	U	-	-	0.0081	U	0.0094	U	0.0039	U	-	-
	Cyclohexane	110-82-7		mg/kg	0.016	U	0.016	U	-	-	0.02	UJ	0.024	U	0.0098	U	-	-
	1,4-Dioxane	123-91-1	250	mg/kg	0.16	U	0.16	U	-	-	0.2	U	0.24	U	0.098	U	-	-
	Freon-113	76-13-1		mg/kg	0.0064	U	0.0066	U	-	-	0.0081	UJ	0.0094	U	0.0039	U	-	-
	Methyl cyclohexane	108-87-2		mg/kg	0.0064	U	0.0066	U	-	-	0.0081	UJ	0.0094	U	0.0039	U	-	-

* Comparison is not performed on parameters with non-numeric criteria.

NY-IND SCO: New York NYCRR Part 375 Industrial Criteria, New York Restricted use Criteria per 6 NYCRR Part 375 Environmental Remediation Programs, effective December 14, 2006.
Exceeds the NY-IND SCO
"-": Sample was not analyzed for the indicated parameter
* Duplicate of sample CB-03
U: Not detected at the reported detection limit for the sample.
UJ: Not detected, quantitation limit may be innaccurate or imprecise.
I: The lower value for the two columns has been reported due to obvious interference.
P: The RPD between the results for the two columns exceeds the method-specified criteria.
J: Estimated value. Refer to the Category B Report and Data Usability Summary Report (DUSR) for L1849060 for further details.
E: Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
R: Unreliable result; data is rejected or unusable. Analyte may or may not be present in the sample. Supporting data or information is necessary to confirm the result.

Figures



*NOTE: LOCATION SHOWN IS APPROXIMATE AND NOT SURVEYED. THE LOCATIONS OF UTILITIES WERE OBTAINED FROM A VARIETY OF SOURCES, INCLUDING UTILITY PLANS, SITE DRAWINGS, AND FIELD OBSERVATIONS.

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CATCH BASIN SAMPLE LOCATIONS

700 SMITH BLVD, ALBANY NY

PROJECT NO. 28952

DATE: 1/09/2019

FIGURE 1

File: V:\PROJECTS\ANY\K3\28952\CADD\FIGURES\CATCH BASIN SAMPLING\FIG-1_28952_CATCH BASIN SAMPLE LOCATIONS.DWG Saved: 1/10/2019 10:33:03 AM Plotted: 1/10/2019 10:38:06 AM Current User: Mikoch

Attachment A

Alpha Analytical Category B Laboratory Report

www.alphalab.com

Alpha Analytical

Laboratory Code: 11148

SDG Number: L1849060

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Project Name: 700 SMITH BLVD
Project Number: 29852.1202.44000

Lab Number: L1849060
Report Date: 12/10/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1849060-01	CB-05	SOIL	PORT OF ALBANY	11/29/18 14:30	11/30/18
L1849060-02	CB-02	SOIL	PORT OF ALBANY	11/30/18 09:05	11/30/18
L1849060-03	CB-03	SOIL	PORT OF ALBANY	11/30/18 09:25	11/30/18
L1849060-04	CB-04	SOIL	PORT OF ALBANY	11/30/18 09:45	11/30/18
L1849060-05	CB-01	SOIL	PORT OF ALBANY	11/30/18 10:10	11/30/18
L1849060-06	DUP-18	SOIL	PORT OF ALBANY	11/30/18 12:00	11/30/18

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

L1849060-06: The Client ID was specified by the client.

Volatile Organics

L1849060-02 through -06: Any reported concentrations that are below 200 ug/kg may be biased low due to the sample not being collected according to 5035-L/5035A-L low-level specifications.

WG1186672-6 MS: The internal standard (IS) response for 1,4-dichlorobenzene-d4 (35%) was outside the acceptance criteria; however, the failure was confirmed in the WG1186672-7 MSD: 1,4-dichlorobenzene-d4 (37%). The results of both analyses are reported.

Semivolatile Organics

L1849060-06: The sample has elevated detection limits due to the dilution required by the sample matrix.

The WG1184852-4/-5 MS/MSD recoveries, performed on L1849060-03, are below the acceptance criteria for 3,3'-dichlorobenzidine (0%/0%), hexachlorocyclopentadiene (0%/0%), 3-nitroaniline (MS at 0%), 4-nitroaniline (MS at 0%), 2-nitrophenol (MS at 0%), 4-nitrophenol (MS at 0%), 2,4-dinitrophenol (0%/0%), 4,6-dinitro-o-cresol (0%/0%) and atrazine (0%/0%) due to the concentration of these compounds falling below the reported detection limit.

The WG1184852-4/-5 MS/MSD recoveries, performed on L1849060-03, are outside the acceptance criteria for bis(2-ethylhexyl)phthalate (0%/0%). The unacceptable percent recoveries are attributed to the elevated concentration of target compound present in the native sample.

PCBs

L1849060-02 and -05: The surrogate recoveries are below the acceptance criteria for 2,4,5,6-tetrachloro-m-xylene (0%) and decachlorobiphenyl (0%) due to the dilution required to quantitate the sample. Re-extraction

Case Narrative (continued)

was not required; therefore, the results of the original analysis are reported.
L1849060-03, -06, WG1184841-4 and WG1184841-5: The sample has elevated detection limits due to the limited sample volume utilized during extraction, as required by the sample matrix.

Pesticides
L1849060-06: The sample has elevated detection limits due to the limited sample volume utilized during extraction, as required by the sample matrix.

Total Metals
L1849060-02 through -06: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.
The WG1186031-3/-4 MS/MSD recoveries for aluminum (223%/460%), calcium (0%/876%), chromium (561%/54%), copper (0%/5350%), iron (0%/0%), lead (0%/0%), manganese (65%/148%) and zinc (739%/0%), performed on L1849060-03, do not apply because the sample concentrations are greater than four times the spike amounts added.
The WG1186031-3/-4 MS/MSD recoveries, performed on L1849060-03, are outside the acceptance criteria for barium (67%/73%), cadmium (MSD at 68%) and thallium (MSD at 72%). A post digestion spike was performed and was within acceptance criteria.
The WG1186031-3 MS recovery, performed on L1849060-03, is outside the acceptance criteria for nickel (132%). A post digestion spike was performed and yielded an unacceptable recovery for nickel (77%). The serial dilution recovery was acceptable; therefore, the matrix test passed for the sample matrix.
The WG1186031-3/-4 MS/MSD RPDs for calcium (47%), chromium (56%), copper (82%) and zinc (29%), performed on L1849060-03, are above the acceptance criteria.
The WG1186191-3/-4 MS/MSD recoveries for mercury (0%/67%), performed on L1849060-03, do not apply because the sample concentration is greater than four times the spike amount added.

Cyanide, Total
The WG1184981-2 LCS recovery (53%), associated with L1849060-02 through -06, is outside our in-house

Case Narrative (continued)

acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

The WG1184981-2/-3 LCS/LCSD RPD (49%), associated with L1849060-02 through -06, is above the acceptance criteria.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Michelle M. Morris Report Date: 12/10/18

Title: Technical Director/Representative

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample¿s toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Report Format: DU Report with 'J' Qualifiers

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Volatile Organics Instruments

Volatile Organics:

Instrument: Agilent 5975MSD (or equivalent)	Columns (length x ID x df):
Trap: Supelco K Trap (VOACARB 3000)	RTX-VMS 20m x 0.18mm x 1um
Concentrator: EST Encon (or equivalent)	RTX-VMS 30m x 0.25mm x 1.4um
Autosampler: EST Centurion (or equivalent)	RTX-502.2 40m x 0.18mm x 1um
Purge time: 11 min	

Volatile Organics: VPH

Instrument: Agilent 6890 (or equivalent)	Column Type: Restek RTX 502.2
Trap: Supelco K Trap (VOACARB 3000)	Column Length: 105 Meters
Concentrator: EST Encon (or equivalent)	df: 3.00 um
Autosampler: EST Centurion (or equivalent)	ID: 0.53mm

Volatile Organics: PIANO

Instrument: Agilent 7890 GC/5975C MSD	Column Type: DB-VRX
Trap: Supelco K Trap (VOACARB 3000)	Column Length: 60 Meters
Concentrator: Tekmar Velocity / EST Encon	df: 1.40 um
Autosampler: Varian Archon / EST Centurion	ID: 0.25 mm
Purge time: 11 min	Desorb: 1 min

Volatile Organics in Air Instruments

Volatile Organics in Air:
Instruments: Agilent 6890 GC / 5975 MSD Shimadzu QP2010-SE

Concentrator: Entech 7100A or 7200	Column Type: Restek RTX-1
Autosampler: Entech 7016CA or 7016D	Column Length: 60 Meters
	df: 1.00 um
	ID: 0.52 mm or 0.32 mm

Trap 1: Glass Bead: manufacturer-Entech: 20 cm packing material
Trap 2: Tenax: manufacturer-Entech: 20 cm packing material

Semivolatile Organics Instruments - Westborough

Semivolatile Organics (Acid/Base/Neutral Extractables):

Instrument: Agilent 5973N MSD	Injection volume: 1 ul
Column Type: Restek RXI-5SILMS	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Polynuclear Aromatic Hydrocarbons by 8270 SIM:

Instrument: Agilent 5973 MSD	Injection volume: 1 ul
Column Type: Restek RTX-5MS	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Pesticides/PCB

Instrument: Agilent 6890 w/Dual Micro ECDs	Injection Volume: 1uL
Column A: Restek RTX-CL/STX-CL	df: 0.32
Column B: Restek RTX/STX-CLPPesticide II	df: 0.25
Column Length: 30 Meters	ID: 0.32 mm

Herbicides

Instrument: Agilent 6890 w/Dual Micro ECDs	Injection Volume: 1uL
Column A: Restek RTX-1701	df: 0.25
Column B: Restek RTX-5	df: 0.25
Column Length: 30 Meters	ID: 0.32 mm

Petroleum

Instrument: Agilent 6890 w/FID / HP 5890 w/ FID	Injection Volume: 1uL
Column: Restek RTX 5	df: 0.25
Column Length: 30 Meters	
ID: 0.32 mm	

EPH

Instrument: Agilent 6890N w/FID	Injection Volume: 1uL
Column: Restek RTX 5	df: 0.25
Column Length: 30 Meters	
ID: 0.32 mm	

Semivolatile Organic Instruments - Mansfield

Semivolatile Organics (ALK-PAH Extractables):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 1 ul
Column Type: ZB-5	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm

Semivolatile Organics (8270):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 2 ul
Column Type: ZB-Semivolatiles	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Semivolatile Organics (8270 SIM):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 3 ul
Column Type: ZB-5	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Semivolatile Organics (1,4-Dioxane):

Instrument: Agilent 5973N / 5975 / 5977 MSD	Injection volume: 3 ul
Column Type: RTX-5, RTX-PCB	df: 0.25um, 0.18 um
Column Length: 60 Meters	ID: 0.25um, 0.18 mm

Semivolatile Organics (209 Congener):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 3 ul
Column Type: RTX-5, RTX-PCB	df: 0.25um, 0.18 um
Column Length: 60 Meters	ID: 0.25um, 0.18 mm

Semivolatile Organics (ECD):

Instrument: Agilent 6890 / 7890	Injection volume: 1 ul
Column Type: RTX-5 / RTX-CLP II	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm

Semivolatile Organics (SHC Extractables):

Instrument: Agilent 6890	Injection volume: 1 ul
Column Type: RTX-5	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm

Sample Delivery Group Summary

Alpha Job Number : L1849060

Account Name : CHA Companies
Project Number : 29852.1202.44000
Project Name : 700 SMITH BLVD

Received : 30-NOV-2018
Reviewer : Chris Tebeau

Delivery Information

Samples Delivered By : Alpha Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
C	Absent/	Ice	4.7	

Condition Information

1) All samples on COC received?	**YES**
2) Extra samples received?	**NO**
3) Are there any sample container discrepancies?	**NO**
4) Are there any discrepancies between sample labels & COC?	**NO**
5) Are samples in appropriate containers for requested analysis?	**YES**
6) Are samples properly preserved for requested analysis?	**YES**
7) Are samples within holding time for requested analysis?	**YES**
8) All sampling equipment returned?	**NA**

Volatile Organics/VPH

1) Reagent Water Vials Frozen by Client?	**NO**

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Dec 10 2018, 08:41 pm

Login Number: L1849060
Account: CHA-SYRACUSE CHA CompaniesProject: 29852.1202.44000
Received: 30NOV18 Due Date: 07DEC18

Sample #	Client ID	Mat	PR	Collected
L1849060-01	CB-05	3	S0	29NOV18 14:30

8260: Report List BUilt 8270: Report List Built ASP-B Package Due Date: 12/07/18

ASP-B,NYTCL-8082,TS

Sample #	Client ID	Mat	PR	Collected
L1849060-02	CB-02	3	S0	30NOV18 09:05

8260: Report List BUilt 8270: Report List Built Package Due Date: 12/07/18

NYTCL-8081,NYTCL-8082,NYTCL-8260-R2,NYTCL-8270,TAL,AG-TI,AL-TI,AS-TI,BA-TI,BE-TI,CA-TI,CD-TI,CO-TI,CR-TI,CU-TI,FE-TI,HG-T,K-TI,MG-TI,MN-TI,NA-TI,NI-TI,PB-TI,PREPT,SB-TI,SE-TI,TL-TI,V-TI,ZN-TI,TCN-9010,TS

Sample #	Client ID	Mat	PR	Collected
L1849060-03	CB-03	3	S0	30NOV18 09:25

8260: Report List BUilt 8270: Report List Built L1849060-03 MS L1849060-03 MSD Package Due Date: 12/07/18

MS/MSD,NYTCL-8081,NYTCL-8082,NYTCL-8260-R2,NYTCL-8270,TAL,AG-TI,AL-TI,AS-TI,BA-TI,BE-TI,CA-TI,CD-TI,CO-TI,CR-TI,CU-TI,FE-TI,HG-T,K-TI,MG-TI,MN-TI,NA-TI,NI-TI,PB-TI,PREPT,SB-TI,SE-TI,TL-TI,V-TI,ZN-TI,TCN-9010,TS

Sample #	Client ID	Mat	PR	Collected
L1849060-04	CB-04	3	S0	30NOV18 09:45

8260: Report List BUilt 8270: Report List Built Package Due Date: 12/07/18

NYTCL-8081,NYTCL-8082,NYTCL-8260-R2,NYTCL-8270,TAL,AG-TI,AL-TI,AS-TI,BA-TI,BE-TI,CA-TI,CD-TI,CO-TI,CR-TI,CU-TI,FE-TI,HG-T,K-TI,MG-TI,MN-TI,NA-TI,NI-TI,PB-TI,PREPT,SB-TI,SE-TI,TL-TI,V-TI,ZN-TI,TCN-9010,TS

Sample #	Client ID	Mat	PR	Collected
L1849060-05	CB-01	3	S0	30NOV18 10:10

8260: Report List BUilt 8270: Report List Built Package Due Date: 12/07/18

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Dec 10 2018, 08:41 pm

Login Number: L1849060
Account: CHA-SYRACUSE CHA CompaniesProject: 29852.1202.44000
Received: 30NOV18 Due Date: 07DEC18

Sample #	Client ID	Mat	PR	Collected

NYTCL-8081,NYTCL-8082,NYTCL-8260-R2,NYTCL-8270,TAL,AG-TI,AL-TI,AS-TI,BA-TI,BE-TI,CA-TI,CD-TI,CO-TI,
CR-TI,CU-TI,FE-TI,HG-T,K-TI,MG-TI,MN-TI,NA-TI,NI-TI,PB-TI,PREPT,SB-TI,SE-TI,TL-TI,V-TI,ZN-TI,TCN-
9010,TS

L1849060-06 DUP-18 3 S0 30NOV18 12:00
8260: Report List BUilt 8270: Report List Built Package Due Date: 12/07/18

NYTCL-8081,NYTCL-8082,NYTCL-8260-R2,NYTCL-8270,TAL,AG-TI,AL-TI,AS-TI,BA-TI,BE-TI,CA-TI,CD-TI,CO-TI,
CR-TI,CU-TI,FE-TI,HG-T,K-TI,MG-TI,MN-TI,NA-TI,NI-TI,PB-TI,PREPT,SB-TI,SE-TI,TL-TI,V-TI,ZN-TI,TCN-
9010,TS

Logged By: Candace Fox

NEW YORK CHAIN OF CUSTODY

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TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 11/30/18

ALPHA Job #: L1849060

Client Information
Client: CHA Consulting, Inc.
Address: 11 Winners Circle
Albany, NY 12205
Phone: 518-453-4500
Fax:
Email: sfowler@chacompanies.com

Project Information
Project Name: 700 Smith Blvd
Project Location: Port of Albany
Project #: 28952.1202.044000
(Use Project name as Project #)
Project Manager: Seth Fowler
ALPHAQuote #:

Turn-Around Time
Standard: ☑ Due Date:
Rush (only if pre approved): ☐ # of Days:

Deliverables
☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Billing Information
☒ Same as Client Info
PO #

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

☐ These samples have been previously analyzed by Alpha

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	SM 2540	EPA 8260C	EPA 8270D	EPA 8081B	EPA 9010C/9012B	EPA-8082A	TOTAL LOWD	Sample Specific Comments	Total Bottle
49060 01	CB-05	11.29.18	1430	SOIL	EW						X			1
02	CB-02	11.30.18	905			X	X	X	X	X	X	X		4 EW 12
03	CB-03/MS/MSP		925			X	X	X	X	X	X	X		4
04	CB-04		945			X	X	X	X	X	X	X		4
05	CB-01		1010			X	X	X	X	X	X	X		4
06	DUP-01	↓	1200	↓	↓	X	X	X	X	X	X	X		4

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type									
Preservative									

Relinquished By:	Date/Time	Received By:	Date/Time
	11:30:18 1530	Robert Hasso RAL	11-30-18 15:30
Robert Hasso	11-30-18 15:30		

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

Organics

GC/MS 8260
Analysis

Volatiles QC Summary

Form 2
Surrogate Recovery
VOLATILES

Client: CHA Companies
Project Name: 700 SMITH BLVD

Lab Number: L1849060
Project Number: 29852.1202.44000
Matrix: Soil

CLIENT ID (LAB SAMPLE NO.)	SMC1 DCA	SMC2 TOL	SMC3 BFB	SMC4 DBFM	TOT OUT
CB-02 (L1849060-02)	114	110	119	113	0
CB-03 (L1849060-03)	103	110	113	105	0
CB-04 (L1849060-04)	109	109	111	112	0
CB-01 (L1849060-05)	114	108	108	115	0
DUP-18 (L1849060-06)	114	109	124	116	0
WG1186463-3LCS	106	108	110	112	0
WG1186463-4LCSD	110	107	108	111	0
WG1186463-5BLANK	112	109	109	112	0
WG1186672-3LCS	97	104	101	101	0
WG1186672-4LCSD	96	105	100	101	0
WG1186672-5BLANK	100	106	101	100	0
CB-03MS	123	108	130	110	0
CB-03MSD	121	109	127	114	0

QC LIMITS

(70-130) DCA = 1,2-DICHLOROETHANE-D4
(70-130) TOL = TOLUENE-D8
(70-130) BFB = 4-BROMOFLUOROBENZENE
(70-130) DBFM = DIBROMOFLUOROMETHANE

*** Values outside of QC limits**

FORM II NYTCL-8260-R2

Laboratory Control Sample
Form 3

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Matrix	: SOIL		
LCS Sample ID	: WG1186463-3	**Analysis Date** : 12/06/18 06:44	**File ID** : V04181206A01
LCSD Sample ID	: WG1186463-4	**Analysis Date** : 12/06/18 07:11	**File ID** : V04181206A02

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/kg)	Found (ug/kg)	%R	True (ug/kg)	Found (ug/kg)	%R	RPD	Recovery Limits	RPD Limit
Methylene chloride	20	18	92	20	19	93	1	70-130	30
1,1-Dichloroethane	20	20	100	20	20	100	0	70-130	30
Chloroform	20	20	101	20	20	102	1	70-130	30
Carbon tetrachloride	20	21	102	20	20	101	1	70-130	30
1,2-Dichloropropane	20	20	100	20	20	102	2	70-130	30
Dibromochloromethane	20	19	97	20	21	104	7	70-130	30
1,1,2-Trichloroethane	20	20	98	20	21	105	7	70-130	30
Tetrachloroethene	20	21	104	20	21	102	2	70-130	30
Chlorobenzene	20	20	99	20	20	99	0	70-130	30
Trichlorofluoromethane	20	22	111	20	22	108	3	70-139	30
1,2-Dichloroethane	20	20	98	20	21	103	5	70-130	30
1,1,1-Trichloroethane	20	21	103	20	20	102	1	70-130	30
Bromodichloromethane	20	20	102	20	21	105	3	70-130	30
trans-1,3-Dichloropropene	20	19	95	20	20	100	5	70-130	30
cis-1,3-Dichloropropene	20	22	107	20	22	112	5	70-130	30
Bromoform	20	20	98	20	21	105	7	70-130	30
1,1,2,2-Tetrachloroethane	20	21	104	20	22	111	7	70-130	30
Benzene	20	20	101	20	20	101	0	70-130	30
Toluene	20	20	99	20	20	98	1	70-130	30
Ethylbenzene	20	20	101	20	20	100	1	70-130	30
Chloromethane	20	16	81	20	16	80	1	52-130	30
Bromomethane	20	24	122	20	23	114	7	57-147	30
Vinyl chloride	20	19	96	20	19	94	2	67-130	30
Chloroethane	20	20	100	20	20	98	2	50-151	30
1,1-Dichloroethene	20	22	109	20	21	105	4	65-135	30
trans-1,2-Dichloroethene	20	20	102	20	20	98	4	70-130	30
Trichloroethene	20	21	103	20	21	103	0	70-130	30
1,2-Dichlorobenzene	20	20	101	20	21	105	4	70-130	30

Laboratory Control Sample
Form 3

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Matrix	: SOIL		
LCS Sample ID	: WG1186463-3	**Analysis Date** : 12/06/18 06:44	**File ID** : V04181206A01
LCSD Sample ID	: WG1186463-4	**Analysis Date** : 12/06/18 07:11	**File ID** : V04181206A02

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/kg)	Found (ug/kg)	%R	True (ug/kg)	Found (ug/kg)	%R	RPD	Recovery Limits	RPD Limit
1,3-Dichlorobenzene	20	20	101	20	20	102	1	70-130	30
1,4-Dichlorobenzene	20	20	101	20	20	102	1	70-130	30
Methyl tert butyl ether	20	19	97	20	21	104	7	66-130	30
p/m-Xylene	40	42	104	40	41	103	1	70-130	30
o-Xylene	40	41	102	40	41	102	0	70-130	30
cis-1,2-Dichloroethene	20	21	104	20	20	102	2	70-130	30
Styrene	40	42	104	40	42	106	2	70-130	30
Dichlorodifluoromethane	20	19	96	20	18	92	4	30-146	30
Acetone	20	18	91	20	20	100	9	54-140	30
Carbon disulfide	20	18	92	20	18	89	3	59-130	30
2-Butanone	20	19	95	20	19	97	2	70-130	30
4-Methyl-2-pentanone	20	20	101	20	22	110	9	70-130	30
2-Hexanone	20	20	99	20	22	108	9	70-130	30
Bromochloromethane	20	20	101	20	21	104	3	70-130	30
1,2-Dibromoethane	20	19	95	20	21	102	7	70-130	30
1,2-Dibromo-3-chloropropane	20	19	94	20	20	99	5	68-130	30
Isopropylbenzene	20	20	101	20	19	97	4	70-130	30
1,2,3-Trichlorobenzene	20	20	100	20	22	107	7	70-130	30
1,2,4-Trichlorobenzene	20	21	106	20	22	108	2	70-130	30
Methyl Acetate	20	19	95	20	21	105	10	51-146	30
Cyclohexane	20	21	106	20	21	104	2	59-142	30
1,4-Dioxane	1000	860	86	1000	960	96	11	65-136	30
Freon-113	20	21	106	20	20	101	5	50-139	30
Methyl cyclohexane	20	22	110	20	21	107	3	70-130	30

Laboratory Control Sample
Form 3

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Matrix	: SOIL		
LCS Sample ID	: WG1186672-3	**Analysis Date** : 12/06/18 14:37	**File ID** : V11181206N01
LCSD Sample ID	: WG1186672-4	**Analysis Date** : 12/06/18 15:03	**File ID** : V11181206N02

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/kg)	Found (ug/kg)	%R	True (ug/kg)	Found (ug/kg)	%R	RPD	Recovery Limits	RPD Limit
Methylene chloride	20	19	97	20	17	86	12	70-130	30
1,1-Dichloroethane	20	19	94	20	18	90	4	70-130	30
Chloroform	20	20	101	20	19	92	9	70-130	30
Carbon tetrachloride	20	23	117	20	21	107	9	70-130	30
1,2-Dichloropropane	20	18	89	20	16	82	8	70-130	30
Dibromochloromethane	20	20	100	20	19	96	4	70-130	30
1,1,2-Trichloroethane	20	19	93	20	18	88	6	70-130	30
Tetrachloroethene	20	24	118	20	23	113	4	70-130	30
Chlorobenzene	20	21	103	20	19	96	7	70-130	30
Trichlorofluoromethane	20	23	113	20	21	104	8	70-139	30
1,2-Dichloroethane	20	18	91	20	17	85	7	70-130	30
1,1,1-Trichloroethane	20	23	112	20	20	102	9	70-130	30
Bromodichloromethane	20	19	96	20	18	92	4	70-130	30
trans-1,3-Dichloropropene	20	20	99	20	19	93	6	70-130	30
cis-1,3-Dichloropropene	20	19	97	20	17	86	12	70-130	30
Bromoform	20	21	107	20	20	101	6	70-130	30
1,1,2,2-Tetrachloroethane	20	19	94	20	18	90	4	70-130	30
Benzene	20	20	98	20	18	90	9	70-130	30
Toluene	20	22	108	20	20	98	10	70-130	30
Ethylbenzene	20	22	107	20	20	100	7	70-130	30
Chloromethane	20	18	90	20	16	78	14	52-130	30
Bromomethane	20	22	110	20	18	91	19	57-147	30
Vinyl chloride	20	22	111	20	19	95	16	67-130	30
Chloroethane	20	22	107	20	20	98	9	50-151	30
1,1-Dichloroethene	20	22	111	20	20	100	10	65-135	30
trans-1,2-Dichloroethene	20	21	107	20	19	96	11	70-130	30
Trichloroethene	20	21	103	20	19	94	9	70-130	30
1,2-Dichlorobenzene	20	21	107	20	20	102	5	70-130	30

Laboratory Control Sample
Form 3

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Matrix	: SOIL		
LCS Sample ID	: WG1186672-3	**Analysis Date** : 12/06/18 14:37	**File ID** : V11181206N01
LCSD Sample ID	: WG1186672-4	**Analysis Date** : 12/06/18 15:03	**File ID** : V11181206N02

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/kg)	Found (ug/kg)	%R	True (ug/kg)	Found (ug/kg)	%R	RPD	Recovery Limits	RPD Limit
1,3-Dichlorobenzene	20	22	110	20	21	103	7	70-130	30
1,4-Dichlorobenzene	20	22	108	20	21	104	4	70-130	30
Methyl tert butyl ether	20	18	91	20	17	85	7	66-130	30
p/m-Xylene	40	43	108	40	40	100	8	70-130	30
o-Xylene	40	42	105	40	40	100	5	70-130	30
cis-1,2-Dichloroethene	20	20	100	20	19	92	8	70-130	30
Styrene	40	41	103	40	39	96	7	70-130	30
Dichlorodifluoromethane	20	22	110	20	19	96	14	30-146	30
Acetone	20	16	80	20	15	73	9	54-140	30
Carbon disulfide	20	19	95	20	18	88	8	59-130	30
2-Butanone	20	15	73	20	14	68 Q	7	70-130	30
4-Methyl-2-pentanone	20	15	76	20	14	71	7	70-130	30
2-Hexanone	20	14	72	20	13	65 Q	10	70-130	30
Bromochloromethane	20	20	101	20	18	92	9	70-130	30
1,2-Dibromoethane	20	20	98	20	18	92	6	70-130	30
1,2-Dibromo-3-chloropropane	20	18	92	20	16	79	15	68-130	30
Isopropylbenzene	20	23	116	20	21	107	8	70-130	30
1,2,3-Trichlorobenzene	20	20	100	20	19	96	4	70-130	30
1,2,4-Trichlorobenzene	20	22	107	20	21	102	5	70-130	30
Methyl Acetate	20	15	75	20	13	66	13	51-146	30
Cyclohexane	20	18	91	20	17	83	9	59-142	30
1,4-Dioxane	1000	910	90	1000	820	82	9	65-136	30
Freon-113	20	22	111	20	20	98	12	50-139	30
Methyl cyclohexane	20	22	107	20	19	97	10	70-130	30

Matrix Spike
Form 3

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Client Sample ID	: CB-03	Matrix	: SOIL
Lab Sample ID	: L1849060-03	Analysis Date	: 12/06/18 17:13
Matrix Spike	: WG1186672-6	MS Analysis Date	: 12/07/18 01:26
Matrix Spike Dup	: WG1186672-7	MSD Analysis Date	: 12/07/18 01:52

		Matrix Spike Sample				Matrix Spike Duplicate						
Parameter	Sample Conc. (ug/kg)	Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R		Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R		RPD	Recovery Limits	RPD Limit
Methylene chloride	ND	214	160	76		200	140	68	Q	17	70-130	30
1,1-Dichloroethane	ND	214	140	64	Q	200	110	56	Q	19	70-130	30
Chloroform	ND	214	150	70		200	130	63	Q	17	70-130	30
Carbon tetrachloride	ND	214	55	26	Q	200	36	18	Q	41 Q	70-130	30
1,2-Dichloropropane	ND	214	98	46	Q	200	82	41	Q	18	70-130	30
Dibromochloromethane	ND	214	40	19	Q	200	32	16	Q	22	70-130	30
1,1,2-Trichloroethane	ND	214	110	49	Q	200	94	47	Q	11	70-130	30
Tetrachloroethene	ND	214	62	29	Q	200	49	25	Q	23	70-130	30
Chlorobenzene	ND	214	61	28	Q	200	50	25	Q	19	70-130	30
Trichlorofluoromethane	ND	214	130	59	Q	200	100	50	Q	24	70-139	30
1,2-Dichloroethane	ND	214	150	68	Q	200	120	62	Q	17	70-130	30
1,1,1-Trichloroethane	ND	214	110	52	Q	200	91	46	Q	21	70-130	30
Bromodichloromethane	ND	214	49	23	Q	200	39	19	Q	23	70-130	30
trans-1,3-Dichloropropene	ND	214	82	38	Q	200	73	37	Q	11	70-130	30
cis-1,3-Dichloropropene	ND	214	73	34	Q	200	63	32	Q	14	70-130	30
Bromoform	ND	214	46	22	Q	200	36	18	Q	24	70-130	30
1,1,2,2-Tetrachloroethane	ND	214	100	47	Q	200	88	44	Q	13	70-130	30
Benzene	ND	214	98	46	Q	200	80	40	Q	20	70-130	30
Toluene	4.0	214	86	38	Q	200	70	33	Q	21	70-130	30
Ethylbenzene	ND	214	54	25	Q	200	43	22	Q	23	70-130	30
Chloromethane	ND	214	170	79		200	130	67		23	52-130	30
Bromomethane	ND	214	160	73		200	130	65		19	57-147	30
Vinyl chloride	ND	214	170	78		200	130	67		21	67-130	30
Chloroethane	ND	214	170	81		200	140	71		20	50-151	30

Matrix Spike
Form 3

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Client Sample ID	: CB-03	Matrix	: SOIL
Lab Sample ID	: L1849060-03	Analysis Date	: 12/06/18 17:13
Matrix Spike	: WG1186672-6	MS Analysis Date	: 12/07/18 01:26
Matrix Spike Dup	: WG1186672-7	MSD Analysis Date	: 12/07/18 01:52

		Matrix Spike Sample				Matrix Spike Duplicate						
Parameter	Sample Conc. (ug/kg)	Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R		Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R		RPD	Recovery Limits	RPD Limit
1,1-Dichloroethene	ND	214	160	72		200	130	63	Q	21	65-135	30
trans-1,2-Dichloroethene	ND	214	110	51	Q	200	88	44	Q	21	70-130	30
Trichloroethene	ND	214	80	37	Q	200	62	31	Q	25	70-130	30
1,2-Dichlorobenzene	ND	214	49	23	Q	200	41	20	Q	17	70-130	30
1,3-Dichlorobenzene	ND	214	50	23	Q	200	40	20	Q	23	70-130	30
1,4-Dichlorobenzene	ND	214	49	23	Q	200	40	20	Q	20	70-130	30
Methyl tert butyl ether	ND	214	170	77		200	150	73		12	66-130	30
p/m-Xylene	ND	427	110	25	Q	399	86	22	Q	21	70-130	30
o-Xylene	ND	427	100	24	Q	399	84	21	Q	21	70-130	30
cis-1,2-Dichloroethene	ND	214	120	54	Q	200	97	48	Q	18	70-130	30
Styrene	ND	427	95	22	Q	399	80	20	Q	17	70-130	30
Dichlorodifluoromethane	ND	214	170	80		200	140	69		21	30-146	30
Acetone	100	214	290	89		200	200	52	Q	35	Q 54-140	30
Carbon disulfide	ND	214	75	35	Q	200	58	29	Q	26	59-130	30
2-Butanone	23	214	150	61	Q	200	120	49	Q	24	70-130	30
4-Methyl-2-pentanone	ND	214	140	64	Q	200	120	62	Q	10	70-130	30
2-Hexanone	ND	214	120	55	Q	200	110	54	Q	9	70-130	30
Bromochloromethane	ND	214	130	61	Q	200	110	57	Q	14	70-130	30
1,2-Dibromoethane	ND	214	90	42	Q	200	79	40	Q	13	70-130	30
1,2-Dibromo-3-chloropropane	ND	214	55	26	Q	200	40	20	Q	33	Q 68-130	30
Isopropylbenzene	ND	214	62	29	Q	200	46	23	Q	30	70-130	30
1,2,3-Trichlorobenzene	ND	214	18	8	Q	200	17	8	Q	6	70-130	30
1,2,4-Trichlorobenzene	ND	214	21	10	Q	200	19	9	Q	10	70-130	30
Methyl Acetate	ND	214	210	98		200	180	88		18	51-146	30

Matrix Spike
Form 3

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Client Sample ID	: CB-03	Matrix	: SOIL
Lab Sample ID	: L1849060-03	Analysis Date	: 12/06/18 17:13
Matrix Spike	: WG1186672-6	MS Analysis Date	: 12/07/18 01:26
Matrix Spike Dup	: WG1186672-7	MSD Analysis Date	: 12/07/18 01:52

		Matrix Spike Sample				Matrix Spike Duplicate						
Parameter	Sample Conc. (ug/kg)	Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R		Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R		RPD	Recovery Limits	RPD Limit
Cyclohexane	ND	214	43	20	Q	200	31	16	Q	32 Q	59-142	30
1,4-Dioxane	ND	10700	9700	91		9980	7600	77		24	65-136	30
Freon-113	ND	214	77	36	Q	200	60	30	Q	25	50-139	30
Methyl cyclohexane	ND	214	33	15	Q	200	22	11	Q	41 Q	70-130	30

Method Blank Summary
Form 4
VOLATILES

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Lab Sample ID	: WG1186463-5	**Lab File ID**	: V04181206A05
Instrument ID	: VOA104		
Matrix	: SOIL	**Analysis Date**	: 12/06/18 08:31

Client Sample No.	Lab Sample ID	Analysis Date
WG1186463-3LCS	WG1186463-3	12/06/18 06:44
WG1186463-4LCSD	WG1186463-4	12/06/18 07:11
CB-02	L1849060-02	12/06/18 15:39
CB-04	L1849060-04	12/06/18 16:05
CB-01	L1849060-05	12/06/18 16:32
DUP-18	L1849060-06	12/06/18 16:59

Method Blank Summary
Form 4
VOLATILES

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Lab Sample ID	: WG1186672-5	**Lab File ID**	: V11181206N04
Instrument ID	: VOA111		
Matrix	: SOIL	**Analysis Date**	: 12/06/18 15:55

Client Sample No.	Lab Sample ID	Analysis Date
WG1186672-3LCS	WG1186672-3	12/06/18 14:37
WG1186672-4LCSD	WG1186672-4	12/06/18 15:03
CB-03	L1849060-03	12/06/18 17:13
CB-03MS	WG1186672-6	12/07/18 01:26
CB-03MSD	WG1186672-7	12/07/18 01:52

Instrument Performance Check
Bromofluorobenzene (BFB)
Form 5

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: VOA104	**Analysis Date**	: 10/29/18 21:41
Tune Standard	: WG1173809-1	**Tune File ID**	: V04181029BF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	23.5
75	30.0 - 60.0% of mass 95	44.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7
173	Less than 2.0% of mass 174	0.6 (.8)1
174	Greater than 50.0 of mass 95	76.7
175	5.0 - 9.0% of mass 174	6 (7.8)1
176	95.0 - 101% of mass 174	75.7 (98.7)1
177	5.0 - 9.0% of mass 176	5.4 (7.1)2

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

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
STDL0	R1126863-1	V04181029N03	10/29/18 22:59
STDL1	R1126863-2	V04181029N04	10/29/18 23:27
STDL1.5	R1126863-3	V04181029N05	10/29/18 23:54
STDL2	R1126863-4	V04181029N06	10/30/18 00:21
STDL3	R1126863-5	V04181029N07	10/30/18 00:49
STDL4	R1126863-6	V04181029N08	10/30/18 01:16
STDL6	R1126863-7	V04181029N09	10/30/18 01:43
STDL7	R1126863-8	V04181029N10	10/30/18 02:10
STDL8	R1126863-9	V04181029N11	10/30/18 02:37
ICV Quant Report	R1126863-10	V04181029N15	10/30/18 04:26

Instrument Performance Check
Bromofluorobenzene (BFB)
Form 5

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: VOA104	**Analysis Date**	: 12/06/18 06:22
Tune Standard	: WG1186463-1	**Tune File ID**	: V04181206BF2_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	22.2
75	30.0 - 60.0% of mass 95	44.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.2
173	Less than 2.0% of mass 174	0.6 (.7)1
174	Greater than 50.0 of mass 95	81.5
175	5.0 - 9.0% of mass 174	6.3 (7.7)1
176	95.0 - 101% of mass 174	78.7 (96.5)1
177	5.0 - 9.0% of mass 176	5.1 (6.5)2

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

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1186463-2CCAL	WG1186463-2	V04181206A01	12/06/18 06:44
WG1186463-3LCS	WG1186463-3	V04181206A01	12/06/18 06:44
WG1186463-4LCSD	WG1186463-4	V04181206A02	12/06/18 07:11
WG1186463-5BLANK	WG1186463-5	V04181206A05	12/06/18 08:31
CB-02	L1849060-02	V04181206A21	12/06/18 15:39
CB-04	L1849060-04	V04181206A22	12/06/18 16:05
CB-01	L1849060-05	V04181206A23	12/06/18 16:32
DUP-18	L1849060-06	V04181206A24	12/06/18 16:59

Instrument Performance Check
Bromofluorobenzene (BFB)
Form 5

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: VOA111	**Analysis Date**	: 11/15/18 20:28
Tune Standard	: WG1180957-1	**Tune File ID**	: V11181115NBF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	23.3
75	30.0 - 60.0% of mass 95	53.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0 (0)1
174	Greater than 50.0 of mass 95	80
175	5.0 - 9.0% of mass 174	6.6 (8.2)1
176	95.0 - 101% of mass 174	78 (97.5)1
177	5.0 - 9.0% of mass 176	4.9 (6.3)2

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

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
STDL0	R1133604-1	V11181115N03	11/15/18 21:43
STDL1	R1133604-2	V11181115N04	11/15/18 22:09
STDL1.5	R1133604-3	V11181115N05	11/15/18 22:35
STDL2	R1133604-4	V11181115N06	11/15/18 23:01
STDL3	R1133604-5	V11181115N07	11/15/18 23:27
STDL4	R1133604-6	V11181115N08	11/15/18 23:53
STDL6	R1133604-7	V11181115N09	11/16/18 00:19
STDL7	R1133604-8	V11181115N10	11/16/18 00:45
STDL8	R1133604-9	V11181115N11	11/16/18 01:11
ICV Quant Report	R1133604-10	V11181115N16	11/16/18 03:20

Instrument Performance Check
Bromofluorobenzene (BFB)
Form 5

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: VOA111	**Analysis Date**	: 12/06/18 14:15
Tune Standard	: WG1186672-1	**Tune File ID**	: V11181206NBF1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	15.0 - 40.0% of mass 95	21.9
75	30.0 - 60.0% of mass 95	54.4
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7
173	Less than 2.0% of mass 174	0.5 (.6)1
174	Greater than 50.0 of mass 95	83.3
175	5.0 - 9.0% of mass 174	6.5 (7.8)1
176	95.0 - 101% of mass 174	81.9 (98.3)1
177	5.0 - 9.0% of mass 176	5.5 (6.8)2

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

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1186672-2CCAL	WG1186672-2	V11181206N01	12/06/18 14:37
WG1186672-3LCS	WG1186672-3	V11181206N01	12/06/18 14:37
WG1186672-4LCSD	WG1186672-4	V11181206N02	12/06/18 15:03
WG1186672-5BLANK	WG1186672-5	V11181206N04	12/06/18 15:55
CB-03	L1849060-03	V11181206N07	12/06/18 17:13
WG1186672-6MS	WG1186672-6	V11181206N26	12/07/18 01:26
WG1186672-7MSD	WG1186672-7	V11181206N27	12/07/18 01:52

Internal Standard Area and RT Summary
Form 8

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: VOA104	**Analysis Date**	: 12/06/18 06:44
Sample No	: WG1186463-2	**Lab File ID**	: V04181206A01

	Fluorobenzene (IS)		Chlorobenzene-d5		1,4-Dichlorobenzene-D4	
	Area	RT	Area	RT	Area	RT
WG1186463-2	131170	5.87	100348	9.39	50893	12.12
Upper Limit	262340	6.37	200696	9.89	101786	12.62
Lower Limit	65585	5.37	50174	8.89	25447	11.62
Sample ID						
WG1186463-3 LCS	131170	5.87	100348	9.39	50893	12.12
WG1186463-4 LCSD	126301	5.88	96835	9.39	50028	12.12
WG1186463-5 BLANK	129725	5.88	97434	9.39	49415	12.12
CB-02	125950	5.88	92224	9.39	41870	12.12
CB-04	127034	5.88	94949	9.39	46360	12.12
CB-01	125836	5.88	94113	9.39	45911	12.12
DUP-18	124020	5.88	91561	9.39	39179	12.12

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: VOA111	**Analysis Date**	: 12/06/18 14:37
Sample No	: WG1186672-2	**Lab File ID**	: V11181206N01

	Fluorobenzene (IS)		Chlorobenzene-d5		1,4-Dichlorobenzene-D4	
	Area	RT	Area	RT	Area	RT
WG1186672-2	82887	5.54	66465	9.01	34331	11.83
Upper Limit	165774	6.04	132930	9.51	68662	12.33
Lower Limit	41444	5.04	33233	8.51	17166	11.33
Sample ID						
WG1186672-3 LCS	82887	5.54	66465	9.01	34331	11.83
WG1186672-4 LCSD	81393	5.55	64291	9.01	33045	11.83
WG1186672-5 BLANK	75384	5.55	58379	9.02	29416	11.83
CB-03	57312	5.55	42141	9.01	17774	11.83
CB-03 MS	46166	5.55	33483	9.02	12115*	11.83
CB-03 MSD	46990	5.55	33682	9.01	12660*	11.83

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

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Volatile Organics - EPA 8260C (WATER)

Holding Time: 14 days
Container / Sample Preservation: 3 - Vial HCl preserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Methylene chloride	75-09-2	3	0.678	ug/l	70-130	20	70-130	20	20			
1,1-Dichloroethane	75-34-3	0.75	0.210	ug/l	70-130	20	70-130	20	20			
Chloroform	67-66-3	0.75	0.222	ug/l	70-130	20	70-130	20	20			
Carbon tetrachloride	56-23-5	0.5	0.134	ug/l	63-132	20	63-132	20	20			
1,2-Dichloropropane	78-87-5	1.75	0.137	ug/l	70-130	20	70-130	20	20			
Dibromochloromethane	124-48-1	0.5	0.149	ug/l	63-130	20	63-130	20	20			
1,1,2-Trichloroethane	79-00-5	0.75	0.144	ug/l	70-130	20	70-130	20	20			
Tetrachloroethene	127-18-4	0.5	0.181	ug/l	70-130	20	70-130	20	20			
Chlorobenzene	108-90-7	0.5	0.178	ug/l	75-130	25	75-130	25	25			
Trichlorofluoromethane	75-69-4	2.5	0.161	ug/l	62-150	20	62-150	20	20			
1,2-Dichloroethane	107-06-2	0.5	0.132	ug/l	70-130	20	70-130	20	20			
1,1,1-Trichloroethane	71-55-6	0.5	0.158	ug/l	67-130	20	67-130	20	20			
Bromodichloromethane	75-27-4	0.5	0.192	ug/l	67-130	20	67-130	20	20			
trans-1,3-Dichloropropene	10061-02-6	0.5	0.164	ug/l	70-130	20	70-130	20	20			
cis-1,3-Dichloropropene	10061-01-5	0.5	0.144	ug/l	70-130	20	70-130	20	20			
1,3-Dichloropropene, Total	542-75-6	0.5	0.144	ug/l				20	20			
1,3-Dichloropropene, Total	542-75-6	0.5	0.144	ug/l				20	20			
1,1-Dichloropropene	563-58-6	2.5	0.240	ug/l	70-130	20	70-130	20	20			
Bromoform	75-25-2	2	0.248	ug/l	54-136	20	54-136	20	20			
1,1,2,2-Tetrachloroethane	79-34-5	0.5	0.167	ug/l	67-130	20	67-130	20	20			
Benzene	71-43-2	0.5	0.159	ug/l	70-130	25	70-130	25	25			
Toluene	108-88-3	0.75	0.203	ug/l	70-130	25	70-130	25	25			
Ethylbenzene	100-41-4	0.5	0.167	ug/l	70-130	20	70-130	20	20			
Chloromethane	74-87-3	2.5	0.200	ug/l	64-130	20	64-130	20	20			
Bromomethane	74-83-9	1	0.256	ug/l	39-139	20	39-139	20	20			
Vinyl chloride	75-01-4	1	0.0714	ug/l	55-140	20	55-140	20	20			
Chloroethane	75-00-3	1	0.134	ug/l	55-138	20	55-138	20	20			
1,1-Dichloroethene	75-35-4	0.5	0.169	ug/l	61-145	25	61-145	25	25			
trans-1,2-Dichloroethene	156-60-5	0.75	0.163	ug/l	70-130	20	70-130	20	20			
1,2-Dichloroethene (total)	540-59-0	0.5	0.163	ug/l				20	20			
1,2-Dichloroethene (total)	540-59-0	0.5	0.163	ug/l				20	20			
Trichloroethene	79-01-6	0.5	0.175	ug/l	70-130	25	70-130	25	25			
1,2-Dichlorobenzene	95-50-1	2.5	0.184	ug/l	70-130	20	70-130	20	20			
1,3-Dichlorobenzene	541-73-1	2.5	0.186	ug/l	70-130	20	70-130	20	20			
1,4-Dichlorobenzene	106-46-7	2.5	0.187	ug/l	70-130	20	70-130	20	20			
Methyl tert butyl ether	1634-04-4	1	0.166	ug/l	63-130	20	63-130	20	20			
p/m-Xylene	179601-23-1	1	0.332	ug/l	70-130	20	70-130	20	20			
o-Xylene	95-47-6	1	0.392	ug/l	70-130	20	70-130	20	20			
Xylene (Total)	1330-20-7	1	0.330	ug/l				20	20			
Xylene (Total)	1330-20-7	1	0.330	ug/l				20	20			
cis-1,2-Dichloroethene	156-59-2	0.5	0.187	ug/l	70-130	20	70-130	20	20			
Dibromomethane	74-95-3	5	0.363	ug/l	70-130	20	70-130	20	20			

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. ***(Soil/Solids only)***
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

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Volatile Organics - EPA 8260C (WATER)

Holding Time: 14 days
Container / Sample Preservation: 3 - Vial HCl preserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1,4-Dichlorobutane	110-56-5	5	0.464	ug/l	70-130	20	70-130	20	20			
1,2,3-Trichloropropane	96-18-4	5	0.176	ug/l	64-130	20	64-130	20	20			
Styrene	100-42-5	1	0.359	ug/l	70-130	20	70-130	20	20			
Dichlorodifluoromethane	75-71-8	5	0.244	ug/l	36-147	20	36-147	20	20			
Acetone	67-64-1	5	1.46	ug/l	58-148	20	58-148	20	20			
Carbon disulfide	75-15-0	5	0.299	ug/l	51-130	20	51-130	20	20			
2-Butanone	78-93-3	5	1.94	ug/l	63-138	20	63-138	20	20			
Vinyl acetate	108-05-4	5	0.311	ug/l	70-130	20	70-130	20	20			
4-Methyl-2-pentanone	108-10-1	5	0.416	ug/l	59-130	20	59-130	20	20			
2-Hexanone	591-78-6	5	0.515	ug/l	57-130	20	57-130	20	20			
Ethyl methacrylate	97-63-2	5	0.606	ug/l	70-130	20	70-130	20	20			
Acrylonitrile	107-13-1	5	0.430	ug/l	70-130	20	70-130	20	20			
Bromochloromethane	74-97-5	2.5	0.152	ug/l	70-130	20	70-130	20	20			
Tetrahydrofuran	109-99-9	5	0.525	ug/l	58-130	20	58-130	20	20			
2,2-Dichloropropane	594-20-7	2.5	0.204	ug/l	63-133	20	63-133	20	20			
1,2-Dibromoethane	106-93-4	2	0.193	ug/l	70-130	20	70-130	20	20			
1,3-Dichloropropane	142-28-9	2.5	0.212	ug/l	70-130	20	70-130	20	20			
1,1,1,2-Tetrachloroethane	630-20-6	0.5	0.164	ug/l	64-130	20	64-130	20	20			
Bromobenzene	108-86-1	2.5	0.152	ug/l	70-130	20	70-130	20	20			
n-Butylbenzene	104-51-8	0.5	0.192	ug/l	53-136	20	53-136	20	20			
sec-Butylbenzene	135-98-8	0.5	0.181	ug/l	70-130	20	70-130	20	20			
tert-Butylbenzene	98-06-6	2.5	0.196	ug/l	70-130	20	70-130	20	20			
o-Chlorotoluene	95-49-8	2.5	0.215	ug/l	70-130	20	70-130	20	20			
p-Chlorotoluene	106-43-4	2.5	0.185	ug/l	70-130	20	70-130	20	20			
1,2-Dibromo-3-chloropropane	96-12-8	2.5	0.353	ug/l	41-144	20	41-144	20	20			
Hexachlorobutadiene	87-68-3	0.5	0.217	ug/l	63-130	20	63-130	20	20			
Isopropylbenzene	98-82-8	0.5	0.187	ug/l	70-130	20	70-130	20	20			
p-Isopropyltoluene	99-87-6	0.5	0.188	ug/l	70-130	20	70-130	20	20			
Naphthalene	91-20-3	2.5	0.216	ug/l	70-130	20	70-130	20	20			
n-Propylbenzene	103-65-1	0.5	0.173	ug/l	69-130	20	69-130	20	20			
1,2,3-Trichlorobenzene	87-61-6	2.5	0.234	ug/l	70-130	20	70-130	20	20			
1,2,4-Trichlorobenzene	120-82-1	2.5	0.220	ug/l	70-130	20	70-130	20	20			
1,3,5-Trimethylbenzene	108-67-8	2.5	0.217	ug/l	64-130	20	64-130	20	20			
1,3,5-Trichlorobenzene	108-70-3	2	0.141	ug/l	70-130	20	70-130	20	20			
1,2,4-Trimethylbenzene	95-63-6	2.5	0.191	ug/l	70-130	20	70-130	20	20			
trans-1,4-Dichloro-2-butene	110-57-6	2.5	0.213	ug/l	70-130	20	70-130	20	20			
Ethyl ether	60-29-7	2.5	0.163	ug/l	59-134	20	59-134	20	20			
Methyl Acetate	79-20-9	10	0.234	ug/l	70-130	20	70-130	20	20			
Ethyl Acetate	141-78-6	10	0.716	ug/l	70-130	20	70-130	20	20			
Isopropyl Ether	108-20-3	2	0.425	ug/l	70-130	20	70-130	20	20			
Cyclohexane	110-82-7	10	0.271	ug/l	70-130	20	70-130	20	20			
Ethyl-Tert-Butyl-Ether	637-92-3	2	0.179	ug/l	70-130	20	70-130	20	20			

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. ***(Soil/Solids only)***
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Volatile Organics - EPA 8260C (WATER)

Holding Time: 14 days
Container / Sample Preservation: 3 - Vial HCl preserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Tertiary-Amyl Methyl Ether	994-05-8	2	0.278	ug/l	66-130	20	66-130	20	20			
1,4-Dioxane	123-91-1	250	60.8	ug/l	56-162	20	56-162	20	20			
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	10	0.148	ug/l	70-130	20	70-130	20	20			
Methyl cyclohexane	108-87-2	10	0.396	ug/l	70-130	20	70-130	20	20			
1,4-Diethylbenzene	105-05-5	2	0.392	ug/l	70-130	20	70-130	20	20			
4-Ethyltoluene	622-96-8	2	0.340	ug/l	70-130	20	70-130	20	20			
1,2,4,5-Tetramethylbenzene	95-93-2	2	0.542	ug/l	70-130	20	70-130	20	20			
1,2-Dichloroethane-d4	*17060-07-0*									*70-130*		
Toluene-d8	*2037-26-5*									*70-130*		
4-Bromofluorobenzene	*460-00-4*									*70-130*		
Dibromofluoromethane	*1868-53-7*									*70-130*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. ***(Soil/Solids only)***
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

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Volatile Organics - EPA 8260C (SOIL-LOW)

Holding Time: 14 days
Container/Sample Preservation: 1 - Vial Large Septa unpreserved (4oz)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Methylene chloride	75-09-2	5	2.29	ug/kg	70-130	30	70-130	30	30			
1,1-Dichloroethane	75-34-3	1	0.145	ug/kg	70-130	30	70-130	30	30			
Chloroform	67-66-3	1.5	0.140	ug/kg	70-130	30	70-130	30	30			
Carbon tetrachloride	56-23-5	1	0.230	ug/kg	70-130	30	70-130	30	30			
1,2-Dichloropropane	78-87-5	1	0.125	ug/kg	70-130	30	70-130	30	30			
Dibromochloromethane	124-48-1	1	0.140	ug/kg	70-130	30	70-130	30	30			
1,1,2-Trichloroethane	79-00-5	1	0.267	ug/kg	70-130	30	70-130	30	30			
Tetrachloroethene	127-18-4	0.5	0.196	ug/kg	70-130	30	70-130	30	30			
Chlorobenzene	108-90-7	0.5	0.127	ug/kg	70-130	30	70-130	30	30			
Trichlorofluoromethane	75-69-4	4	0.695	ug/kg	70-139	30	70-139	30	30			
1,2-Dichloroethane	107-06-2	1	0.257	ug/kg	70-130	30	70-130	30	30			
1,1,1-Trichloroethane	71-55-6	0.5	0.167	ug/kg	70-130	30	70-130	30	30			
Bromodichloromethane	75-27-4	0.5	0.109	ug/kg	70-130	30	70-130	30	30			
trans-1,3-Dichloropropene	10061-02-6	1	0.273	ug/kg	70-130	30	70-130	30	30			
cis-1,3-Dichloropropene	10061-01-5	0.5	0.158	ug/kg	70-130	30	70-130	30	30			
1,3-Dichloropropene, Total	542-75-6	0.5	0.158	ug/kg				30	30			
1,3-Dichloropropene, Total	542-75-6	0.5	0.158	ug/kg				30	30			
1,1-Dichloropropene	563-58-6	0.5	0.159	ug/kg	70-130	30	70-130	30	30			
Bromoform	75-25-2	4	0.246	ug/kg	70-130	30	70-130	30	30			
1,1,2,2-Tetrachloroethane	79-34-5	0.5	0.166	ug/kg	70-130	30	70-130	30	30			
Benzene	71-43-2	0.5	0.166	ug/kg	70-130	30	70-130	30	30			
Toluene	108-88-3	1	0.543	ug/kg	70-130	30	70-130	30	30			
Ethylbenzene	100-41-4	1	0.141	ug/kg	70-130	30	70-130	30	30			
Chloromethane	74-87-3	4	0.932	ug/kg	52-130	30	52-130	30	30			
Bromomethane	74-83-9	2	0.581	ug/kg	57-147	30	57-147	30	30			
Vinyl chloride	75-01-4	1	0.335	ug/kg	67-130	30	67-130	30	30			
Chloroethane	75-00-3	2	0.452	ug/kg	50-151	30	50-151	30	30			
1,1-Dichloroethene	75-35-4	1	0.238	ug/kg	65-135	30	65-135	30	30			
trans-1,2-Dichloroethene	156-60-5	1.5	0.137	ug/kg	70-130	30	70-130	30	30			
Trichloroethene	79-01-6	0.5	0.137	ug/kg	70-130	30	70-130	30	30			
1,2-Dichlorobenzene	95-50-1	2	0.144	ug/kg	70-130	30	70-130	30	30			
1,3-Dichlorobenzene	541-73-1	2	0.148	ug/kg	70-130	30	70-130	30	30			
1,4-Dichlorobenzene	106-46-7	2	0.171	ug/kg	70-130	30	70-130	30	30			
Methyl tert butyl ether	1634-04-4	2	0.201	ug/kg	66-130	30	66-130	30	30			
p/m-Xylene	179601-23-1	2	0.560	ug/kg	70-130	30	70-130	30	30			
o-Xylene	95-47-6	1	0.291	ug/kg	70-130	30	70-130	30	30			
Xylene (Total)	1330-20-7	1	0.291	ug/kg				30	30			
Xylene (Total)	1330-20-7	1	0.291	ug/kg				30	30			
cis-1,2-Dichloroethene	156-59-2	1	0.175	ug/kg	70-130	30	70-130	30	30			
1,2-Dichloroethene (total)	540-59-0	1	0.137	ug/kg				30	30			
1,2-Dichloroethene (total)	540-59-0	1	0.137	ug/kg				30	30			
Dibromomethane	74-95-3	2	0.238	ug/kg	70-130	30	70-130	30	30			

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Volatile Organics - EPA 8260C (SOIL-LOW)

Holding Time: 14 days
Container / Sample Preservation: 1 - Vial Large Septa unpreserved (4oz)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1,4-Dichlorobutane	110-56-5	10	0.226	ug/kg	70-130	30	70-130	30	30			
1,2,3-Trichloropropane	96-18-4	2	0.127	ug/kg	68-130	30	68-130	30	30			
Styrene	100-42-5	1	0.196	ug/kg	70-130	30	70-130	30	30			
Dichlorodifluoromethane	75-71-8	10	0.915	ug/kg	30-146	30	30-146	30	30			
Acetone	67-64-1	10	4.81	ug/kg	54-140	30	54-140	30	30			
Carbon disulfide	75-15-0	10	4.55	ug/kg	59-130	30	59-130	30	30			
2-Butanone	78-93-3	10	2.22	ug/kg	70-130	30	70-130	30	30			
Vinyl acetate	108-05-4	10	2.15	ug/kg	70-130	30	70-130	30	30			
4-Methyl-2-pentanone	108-10-1	10	1.28	ug/kg	70-130	30	70-130	30	30			
2-Hexanone	591-78-6	10	1.18	ug/kg	70-130	30	70-130	30	30			
Ethyl methacrylate	97-63-2	10	1.58	ug/kg	70-130	30	70-130	30	30			
Acrylonitrile	107-13-1	4	1.15	ug/kg	70-130	30	70-130	30	30			
Bromochloromethane	74-97-5	2	0.205	ug/kg	70-130	30	70-130	30	30			
Tetrahydrofuran	109-99-9	4	1.59	ug/kg	66-130	30	66-130	30	30			
2,2-Dichloropropane	594-20-7	2	0.202	ug/kg	70-130	30	70-130	30	30			
1,2-Dibromoethane	106-93-4	1	0.279	ug/kg	70-130	30	70-130	30	30			
1,3-Dichloropropane	142-28-9	2	0.167	ug/kg	69-130	30	69-130	30	30			
1,1,1,2-Tetrachloroethane	630-20-6	0.5	0.132	ug/kg	70-130	30	70-130	30	30			
Bromobenzene	108-86-1	2	0.145	ug/kg	70-130	30	70-130	30	30			
n-Butylbenzene	104-51-8	1	0.167	ug/kg	70-130	30	70-130	30	30			
sec-Butylbenzene	135-98-8	1	0.146	ug/kg	70-130	30	70-130	30	30			
tert-Butylbenzene	98-06-6	2	0.118	ug/kg	70-130	30	70-130	30	30			
1,3,5-Trichlorobenzene	108-70-3	2	0.173	ug/kg	70-139	30	70-130	30	30			
o-Chlorotoluene	95-49-8	2	0.191	ug/kg	70-130	30	70-130	30	30			
p-Chlorotoluene	106-43-4	2	0.108	ug/kg	70-130	30	70-130	30	30			
1,2-Dibromo-3-chloropropane	96-12-8	3	0.998	ug/kg	68-130	30	68-130	30	30			
Hexachlorobutadiene	87-68-3	4	0.169	ug/kg	67-130	30	67-130	30	30			
Isopropylbenzene	98-82-8	1	0.109	ug/kg	70-130	30	70-130	30	30			
p-Isopropyltoluene	99-87-6	1	0.109	ug/kg	70-130	30	70-130	30	30			
Naphthalene	91-20-3	4	0.650	ug/kg	70-130	30	70-130	30	30			
n-Propylbenzene	103-65-1	1	0.171	ug/kg	70-130	30	70-130	30	30			
1,2,3-Trichlorobenzene	87-61-6	2	0.322	ug/kg	70-130	30	70-130	30	30			
1,2,4-Trichlorobenzene	120-82-1	2	0.272	ug/kg	70-130	30	70-130	30	30			
1,3,5-Trimethylbenzene	108-67-8	2	0.193	ug/kg	70-130	30	70-130	30	30			
1,2,4-Trimethylbenzene	95-63-6	2	0.334	ug/kg	70-130	30	70-130	30	30			
trans-1,4-Dichloro-2-butene	110-57-6	5	1.42	ug/kg	70-130	30	70-130	30	30			
iso-Propyl Alcohol	67-63-0	100	100	ug/kg	70-130	20	70-130	20	20			
Ethyl ether	60-29-7	2	0.341	ug/kg	67-130	30	67-130	30	30			
Methyl Acetate	79-20-9	4	0.950	ug/kg	65-130	30	65-130	30	30			
Ethyl Acetate	141-78-6	10	1.21	ug/kg	70-130	30	70-130	30	30			
Isopropyl Ether	108-20-3	2	0.213	ug/kg	66-130	30	66-130	30	30			
Cyclohexane	110-82-7	10	0.544	ug/kg	70-130	30	70-130	30	30			

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Volatile Organics - EPA 8260C (SOIL-LOW)

Holding Time: 14 days
Container/Sample Preservation: 1 - Vial Large Septa unpreserved (4oz)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Ethyl-Tert-Butyl-Ether	637-92-3	2	0.128	ug/kg	70-130	30	70-130	30	30			
Tertiary-Amyl Methyl Ether	994-05-8	2	0.176	ug/kg	70-130	30	70-130	30	30			
1,4-Dioxane	123-91-1	100	35.1	ug/kg	65-136	30	65-136	30	30			
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	4	0.693	ug/kg	70-130	30	70-130	30	30			
1,2-Dichloroethane-d4	*17060-07-0*									*70-130*		
Toluene-d8	*2037-26-5*									*70-130*		
4-Bromofluorobenzene	*460-00-4*									*70-130*		
Dibromofluoromethane	*1868-53-7*									*70-130*		

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Date Created: 06/19/18
Created By: Jason Hebert
File: PM5048-1
Page: 1

Volatile Organics - EPA 8260C (SOIL-HIGH)

Holding Time: 14 days
Container/Sample Preservation: 1 - Vial Large Septa unpreserved (4oz)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Methylene chloride	75-09-2	250	115	ug/kg	70-130	30	70-130	30	30			
1,1-Dichloroethane	75-34-3	50	7.25	ug/kg	70-130	30	70-130	30	30			
Chloroform	67-66-3	75	7.00	ug/kg	70-130	30	70-130	30	30			
Carbon tetrachloride	56-23-5	50	11.5	ug/kg	70-130	30	70-130	30	30			
1,2-Dichloropropane	78-87-5	50	6.25	ug/kg	70-130	30	70-130	30	30			
Dibromochloromethane	124-48-1	50	7.00	ug/kg	70-130	30	70-130	30	30			
1,1,2-Trichloroethane	79-00-5	50	13.4	ug/kg	70-130	30	70-130	30	30			
Tetrachloroethene	127-18-4	25	9.80	ug/kg	70-130	30	70-130	30	30			
Chlorobenzene	108-90-7	25	6.35	ug/kg	70-130	30	70-130	30	30			
Trichlorofluoromethane	75-69-4	200	34.8	ug/kg	70-139	30	70-139	30	30			
1,2-Dichloroethane	107-06-2	50	12.9	ug/kg	70-130	30	70-130	30	30			
1,1,1-Trichloroethane	71-55-6	25	8.35	ug/kg	70-130	30	70-130	30	30			
Bromodichloromethane	75-27-4	25	5.45	ug/kg	70-130	30	70-130	30	30			
trans-1,3-Dichloropropene	10061-02-6	50	13.7	ug/kg	70-130	30	70-130	30	30			
cis-1,3-Dichloropropene	10061-01-5	25	7.90	ug/kg	70-130	30	70-130	30	30			
1,3-Dichloropropene, Total	542-75-6	25	7.90	ug/kg				30	30			
1,3-Dichloropropene, Total	542-75-6	25	7.90	ug/kg				30	30			
1,1-Dichloropropene	563-58-6	25	7.95	ug/kg	70-130	30	70-130	30	30			
Bromoform	75-25-2	200	12.3	ug/kg	70-130	30	70-130	30	30			
1,1,2,2-Tetrachloroethane	79-34-5	25	8.30	ug/kg	70-130	30	70-130	30	30			
Benzene	71-43-2	25	8.30	ug/kg	70-130	30	70-130	30	30			
Toluene	108-88-3	50	27.2	ug/kg	70-130	30	70-130	30	30			
Ethylbenzene	100-41-4	50	7.05	ug/kg	70-130	30	70-130	30	30			
Chloromethane	74-87-3	200	46.6	ug/kg	52-130	30	52-130	30	30			
Bromomethane	74-83-9	100	29.1	ug/kg	57-147	30	57-147	30	30			
Vinyl chloride	75-01-4	50	16.8	ug/kg	67-130	30	67-130	30	30			
Chloroethane	75-00-3	100	22.6	ug/kg	50-151	30	50-151	30	30			
1,1-Dichloroethene	75-35-4	50	11.9	ug/kg	65-135	30	65-135	30	30			
trans-1,2-Dichloroethene	156-60-5	75	6.85	ug/kg	70-130	30	70-130	30	30			
Trichloroethene	79-01-6	25	6.85	ug/kg	70-130	30	70-130	30	30			
1,2-Dichlorobenzene	95-50-1	100	7.20	ug/kg	70-130	30	70-130	30	30			
1,3-Dichlorobenzene	541-73-1	100	7.40	ug/kg	70-130	30	70-130	30	30			
1,4-Dichlorobenzene	106-46-7	100	8.55	ug/kg	70-130	30	70-130	30	30			
Methyl tert butyl ether	1634-04-4	100	10.1	ug/kg	66-130	30	66-130	30	30			
p/m-Xylene	179601-23-1	100	28.0	ug/kg	70-130	30	70-130	30	30			
o-Xylene	95-47-6	50	14.6	ug/kg	70-130	30	70-130	30	30			
Xylene (Total)	1330-20-7	50	14.6	ug/kg				30	30			
Xylene (Total)	1330-20-7	50	14.6	ug/kg				30	30			
cis-1,2-Dichloroethene	156-59-2	50	8.75	ug/kg	70-130	30	70-130	30	30			
1,2-Dichloroethene (total)	540-59-0	50	6.85	ug/kg				30	30			
1,2-Dichloroethene (total)	540-59-0	50	6.85	ug/kg				30	30			
Dibromomethane	74-95-3	100	11.9	ug/kg	70-130	30	70-130	30	30			

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Volatile Organics - EPA 8260C (SOIL-HIGH)

Holding Time: 14 days
Container / Sample Preservation: 1 - Vial Large Septa unpreserved (4oz)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1,4-Dichlorobutane	110-56-5	500	11.3	ug/kg	70-130	30	70-130	30	30			
1,2,3-Trichloropropane	96-18-4	100	6.35	ug/kg	68-130	30	68-130	30	30			
Styrene	100-42-5	50	9.80	ug/kg	70-130	30	70-130	30	30			
Dichlorodifluoromethane	75-71-8	500	45.8	ug/kg	30-146	30	30-146	30	30			
Acetone	67-64-1	500	241	ug/kg	54-140	30	54-140	30	30			
Carbon disulfide	75-15-0	500	228	ug/kg	59-130	30	59-130	30	30			
2-Butanone	78-93-3	500	111	ug/kg	70-130	30	70-130	30	30			
Vinyl acetate	108-05-4	500	108	ug/kg	70-130	30	70-130	30	30			
4-Methyl-2-pentanone	108-10-1	500	64.0	ug/kg	70-130	30	70-130	30	30			
2-Hexanone	591-78-6	500	59.0	ug/kg	70-130	30	70-130	30	30			
Ethyl methacrylate	97-63-2	500	79.0	ug/kg	70-130	30	70-130	30	30			
Acrylonitrile	107-13-1	200	57.5	ug/kg	70-130	30	70-130	30	30			
Bromochloromethane	74-97-5	100	10.3	ug/kg	70-130	30	70-130	30	30			
Tetrahydrofuran	109-99-9	200	79.5	ug/kg	66-130	30	66-130	30	30			
2,2-Dichloropropane	594-20-7	100	10.1	ug/kg	70-130	30	70-130	30	30			
1,2-Dibromoethane	106-93-4	50	14.0	ug/kg	70-130	30	70-130	30	30			
1,3-Dichloropropane	142-28-9	100	8.35	ug/kg	69-130	30	69-130	30	30			
1,1,1,2-Tetrachloroethane	630-20-6	25	6.60	ug/kg	70-130	30	70-130	30	30			
Bromobenzene	108-86-1	100	7.25	ug/kg	70-130	30	70-130	30	30			
n-Butylbenzene	104-51-8	50	8.35	ug/kg	70-130	30	70-130	30	30			
sec-Butylbenzene	135-98-8	50	7.30	ug/kg	70-130	30	70-130	30	30			
tert-Butylbenzene	98-06-6	100	5.90	ug/kg	70-130	30	70-130	30	30			
1,3,5-Trichlorobenzene	108-70-3	100	8.65	ug/kg	70-139	30	70-130	30	30			
o-Chlorotoluene	95-49-8	100	9.55	ug/kg	70-130	30	70-130	30	30			
p-Chlorotoluene	106-43-4	100	5.40	ug/kg	70-130	30	70-130	30	30			
1,2-Dibromo-3-chloropropane	96-12-8	150	49.9	ug/kg	68-130	30	68-130	30	30			
Hexachlorobutadiene	87-68-3	200	8.45	ug/kg	67-130	30	67-130	30	30			
Isopropylbenzene	98-82-8	50	5.45	ug/kg	70-130	30	70-130	30	30			
p-Isopropyltoluene	99-87-6	50	5.45	ug/kg	70-130	30	70-130	30	30			
Naphthalene	91-20-3	200	32.5	ug/kg	70-130	30	70-130	30	30			
n-Propylbenzene	103-65-1	50	8.55	ug/kg	70-130	30	70-130	30	30			
1,2,3-Trichlorobenzene	87-61-6	100	16.1	ug/kg	70-130	30	70-130	30	30			
1,2,4-Trichlorobenzene	120-82-1	100	13.6	ug/kg	70-130	30	70-130	30	30			
1,3,5-Trimethylbenzene	108-67-8	100	9.65	ug/kg	70-130	30	70-130	30	30			
1,2,4-Trimethylbenzene	95-63-6	100	16.7	ug/kg	70-130	30	70-130	30	30			
trans-1,4-Dichloro-2-butene	110-57-6	250	71.0	ug/kg	70-130	30	70-130	30	30			
iso-Propyl Alcohol	67-63-0	5000	5000	ug/kg	70-130	20	70-130	20	20			
Ethyl ether	60-29-7	100	17.1	ug/kg	67-130	30	67-130	30	30			
Methyl Acetate	79-20-9	200	47.5	ug/kg	65-130	30	65-130	30	30			
Ethyl Acetate	141-78-6	500	60.5	ug/kg	70-130	30	70-130	30	30			
Isopropyl Ether	108-20-3	100	10.7	ug/kg	66-130	30	66-130	30	30			
Cyclohexane	110-82-7	500	27.2	ug/kg	70-130	30	70-130	30	30			

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Volatile Organics - EPA 8260C (SOIL-HIGH)

Holding Time: 14 days
Container / Sample Preservation: 1 - Vial Large Septa unpreserved (4oz)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Ethyl-Tert-Butyl-Ether	637-92-3	100	6.40	ug/kg	70-130	30	70-130	30	30			
Tertiary-Amyl Methyl Ether	994-05-8	100	8.80	ug/kg	70-130	30	70-130	30	30			
1,4-Dioxane	123-91-1	5000	1755	ug/kg	65-136	30	65-136	30	30			
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	200	34.7	ug/kg	70-130	30	70-130	30	30			
1,2-Dichloroethane-d4	*17060-07-0*									*70-130*		
Toluene-d8	*2037-26-5*									*70-130*		
4-Bromofluorobenzene	*460-00-4*									*70-130*		
Dibromofluoromethane	*1868-53-7*									*70-130*		

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Volatiles Sample Data

Form 1
VOA

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-02	Date Collected	: 11/30/18 09:05
Client ID	: CB-02	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/06/18 15:39
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: MKS
Lab File ID	: V04181206A21	Instrument ID	: VOA104
Sample Amount	: 4.6 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 66
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	8.2	3.8	U
75-34-3	1,1-Dichloroethane	ND	1.6	0.24	U
67-66-3	Chloroform	ND	2.5	0.23	U
56-23-5	Carbon tetrachloride	ND	1.6	0.38	U
78-87-5	1,2-Dichloropropane	ND	1.6	0.20	U
124-48-1	Dibromochloromethane	ND	1.6	0.23	U
79-00-5	1,1,2-Trichloroethane	ND	1.6	0.44	U
127-18-4	Tetrachloroethene	ND	0.82	0.32	U
108-90-7	Chlorobenzene	ND	0.82	0.21	U
75-69-4	Trichlorofluoromethane	ND	6.6	1.1	U
107-06-2	1,2-Dichloroethane	ND	1.6	0.42	U
71-55-6	1,1,1-Trichloroethane	ND	0.82	0.27	U
75-27-4	Bromodichloromethane	ND	0.82	0.18	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.6	0.45	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.82	0.26	U
75-25-2	Bromoform	ND	6.6	0.40	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.82	0.27	U
71-43-2	Benzene	ND	0.82	0.27	U
108-88-3	Toluene	ND	1.6	0.89	U
100-41-4	Ethylbenzene	ND	1.6	0.23	U
74-87-3	Chloromethane	ND	6.6	1.5	U
74-83-9	Bromomethane	ND	3.3	0.96	U
75-01-4	Vinyl chloride	ND	1.6	0.55	U
75-00-3	Chloroethane	ND	3.3	0.74	U
75-35-4	1,1-Dichloroethene	ND	1.6	0.39	U
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.22	U
79-01-6	Trichloroethene	ND	0.82	0.22	U

Form 1
VOA

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-02	Date Collected	: 11/30/18 09:05
Client ID	: CB-02	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/06/18 15:39
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: MKS
Lab File ID	: V04181206A21	Instrument ID	: VOA104
Sample Amount	: 4.6 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 66
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
95-50-1	1,2-Dichlorobenzene	ND	3.3	0.24	U
541-73-1	1,3-Dichlorobenzene	ND	3.3	0.24	U
106-46-7	1,4-Dichlorobenzene	ND	3.3	0.28	U
1634-04-4	Methyl tert butyl ether	ND	3.3	0.33	U
179601-23-1	p/m-Xylene	ND	3.3	0.92	U
95-47-6	o-Xylene	ND	1.6	0.48	U
156-59-2	cis-1,2-Dichloroethene	ND	1.6	0.29	U
100-42-5	Styrene	ND	1.6	0.32	U
75-71-8	Dichlorodifluoromethane	ND	16	1.5	U
67-64-1	Acetone	ND	16	7.9	U
75-15-0	Carbon disulfide	ND	16	7.5	U
78-93-3	2-Butanone	ND	16	3.6	U
108-10-1	4-Methyl-2-pentanone	ND	16	2.1	U
591-78-6	2-Hexanone	ND	16	1.9	U
74-97-5	Bromochloromethane	ND	3.3	0.34	U
106-93-4	1,2-Dibromoethane	ND	1.6	0.46	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.9	1.6	U
98-82-8	Isopropylbenzene	ND	1.6	0.18	U
87-61-6	1,2,3-Trichlorobenzene	ND	3.3	0.53	U
120-82-1	1,2,4-Trichlorobenzene	ND	3.3	0.45	U
79-20-9	Methyl Acetate	ND	6.6	1.6	U
110-82-7	Cyclohexane	ND	16	0.90	U
123-91-1	1,4-Dioxane	ND	160	58.	U
76-13-1	Freon-113	ND	6.6	1.1	U
108-87-2	Methyl cyclohexane	ND	6.6	0.99	U

Form 1
VOA

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-03	Date Collected	: 11/30/18 09:25
Client ID	: CB-03	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/06/18 17:13
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: MV
Lab File ID	: V11181206N07	Instrument ID	: VOA111
Sample Amount	: 4.9 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 50
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	10	4.6	U
75-34-3	1,1-Dichloroethane	ND	2.0	0.29	U
67-66-3	Chloroform	ND	3.0	0.28	U
56-23-5	Carbon tetrachloride	ND	2.0	0.47	U
78-87-5	1,2-Dichloropropane	ND	2.0	0.25	U
124-48-1	Dibromochloromethane	ND	2.0	0.28	U
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.54	U
127-18-4	Tetrachloroethene	ND	1.0	0.40	U
108-90-7	Chlorobenzene	ND	1.0	0.26	U
75-69-4	Trichlorofluoromethane	ND	8.1	1.4	U
107-06-2	1,2-Dichloroethane	ND	2.0	0.52	U
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.34	U
75-27-4	Bromodichloromethane	ND	1.0	0.22	U
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.55	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.32	U
75-25-2	Bromoform	ND	8.1	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.34	U
71-43-2	Benzene	ND	1.0	0.34	U
108-88-3	Toluene	4.0	2.0	1.1	
100-41-4	Ethylbenzene	ND	2.0	0.29	U
74-87-3	Chloromethane	ND	8.1	1.9	U
74-83-9	Bromomethane	ND	4.1	1.2	U
75-01-4	Vinyl chloride	ND	2.0	0.68	U
75-00-3	Chloroethane	ND	4.1	0.92	U
75-35-4	1,1-Dichloroethene	ND	2.0	0.48	U
156-60-5	trans-1,2-Dichloroethene	ND	3.0	0.28	U
79-01-6	Trichloroethene	ND	1.0	0.28	U

Form 1
VOA

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-03	Date Collected	: 11/30/18 09:25
Client ID	: CB-03	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/06/18 17:13
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: MV
Lab File ID	: V11181206N07	Instrument ID	: VOA111
Sample Amount	: 4.9 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 50
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
95-50-1	1,2-Dichlorobenzene	ND	4.1	0.29	U
541-73-1	1,3-Dichlorobenzene	ND	4.1	0.30	U
106-46-7	1,4-Dichlorobenzene	ND	4.1	0.35	U
1634-04-4	Methyl tert butyl ether	ND	4.1	0.41	U
179601-23-1	p/m-Xylene	ND	4.1	1.1	U
95-47-6	o-Xylene	ND	2.0	0.59	U
156-59-2	cis-1,2-Dichloroethene	ND	2.0	0.36	U
100-42-5	Styrene	ND	2.0	0.40	U
75-71-8	Dichlorodifluoromethane	ND	20	1.8	U
67-64-1	Acetone	100	20	9.8	
75-15-0	Carbon disulfide	ND	20	9.2	U
78-93-3	2-Butanone	23	20	4.5	
108-10-1	4-Methyl-2-pentanone	ND	20	2.6	U
591-78-6	2-Hexanone	ND	20	2.4	U
74-97-5	Bromochloromethane	ND	4.1	0.42	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.57	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	6.1	2.0	U
98-82-8	Isopropylbenzene	ND	2.0	0.22	U
87-61-6	1,2,3-Trichlorobenzene	ND	4.1	0.65	U
120-82-1	1,2,4-Trichlorobenzene	ND	4.1	0.55	U
79-20-9	Methyl Acetate	ND	8.1	1.9	U
110-82-7	Cyclohexane	ND	20	1.1	U
123-91-1	1,4-Dioxane	ND	200	71.	U
76-13-1	Freon-113	ND	8.1	1.4	U
108-87-2	Methyl cyclohexane	ND	8.1	1.2	U

Form 1
VOA

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-04	Date Collected	: 11/30/18 09:45
Client ID	: CB-04	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/06/18 16:05
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: MKS
Lab File ID	: V04181206A22	Instrument ID	: VOA104
Sample Amount	: 5.9 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 86
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	4.9	2.2	U
75-34-3	1,1-Dichloroethane	ND	0.98	0.14	U
67-66-3	Chloroform	ND	1.5	0.14	U
56-23-5	Carbon tetrachloride	ND	0.98	0.23	U
78-87-5	1,2-Dichloropropane	ND	0.98	0.12	U
124-48-1	Dibromochloromethane	ND	0.98	0.14	U
79-00-5	1,1,2-Trichloroethane	ND	0.98	0.26	U
127-18-4	Tetrachloroethene	ND	0.49	0.19	U
108-90-7	Chlorobenzene	ND	0.49	0.12	U
75-69-4	Trichlorofluoromethane	ND	3.9	0.68	U
107-06-2	1,2-Dichloroethane	ND	0.98	0.25	U
71-55-6	1,1,1-Trichloroethane	ND	0.49	0.16	U
75-27-4	Bromodichloromethane	ND	0.49	0.11	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.98	0.27	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.49	0.16	U
75-25-2	Bromoform	ND	3.9	0.24	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.49	0.16	U
71-43-2	Benzene	ND	0.49	0.16	U
108-88-3	Toluene	ND	0.98	0.53	U
100-41-4	Ethylbenzene	ND	0.98	0.14	U
74-87-3	Chloromethane	ND	3.9	0.92	U
74-83-9	Bromomethane	ND	2.0	0.57	U
75-01-4	Vinyl chloride	ND	0.98	0.33	U
75-00-3	Chloroethane	ND	2.0	0.44	U
75-35-4	1,1-Dichloroethene	ND	0.98	0.23	U
156-60-5	trans-1,2-Dichloroethene	ND	1.5	0.13	U
79-01-6	Trichloroethene	ND	0.49	0.13	U

Form 1
VOA

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-04	Date Collected	: 11/30/18 09:45
Client ID	: CB-04	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/06/18 16:05
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: MKS
Lab File ID	: V04181206A22	Instrument ID	: VOA104
Sample Amount	: 5.9 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 86
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
95-50-1	1,2-Dichlorobenzene	ND	2.0	0.14	U
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.14	U
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.17	U
1634-04-4	Methyl tert butyl ether	ND	2.0	0.20	U
179601-23-1	p/m-Xylene	ND	2.0	0.55	U
95-47-6	o-Xylene	ND	0.98	0.29	U
156-59-2	cis-1,2-Dichloroethene	ND	0.98	0.17	U
100-42-5	Styrene	ND	0.98	0.19	U
75-71-8	Dichlorodifluoromethane	ND	9.8	0.90	U
67-64-1	Acetone	ND	9.8	4.7	U
75-15-0	Carbon disulfide	ND	9.8	4.5	U
78-93-3	2-Butanone	ND	9.8	2.2	U
108-10-1	4-Methyl-2-pentanone	ND	9.8	1.2	U
591-78-6	2-Hexanone	ND	9.8	1.2	U
74-97-5	Bromochloromethane	ND	2.0	0.20	U
106-93-4	1,2-Dibromoethane	ND	0.98	0.27	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.0	0.98	U
98-82-8	Isopropylbenzene	ND	0.98	0.11	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.32	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.27	U
79-20-9	Methyl Acetate	ND	3.9	0.93	U
110-82-7	Cyclohexane	ND	9.8	0.54	U
123-91-1	1,4-Dioxane	ND	98	34.	U
76-13-1	Freon-113	ND	3.9	0.68	U
108-87-2	Methyl cyclohexane	ND	3.9	0.59	U

Form 1
VOA

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-05	Date Collected	: 11/30/18 10:10
Client ID	: CB-01	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/06/18 16:32
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: MKS
Lab File ID	: V04181206A23	Instrument ID	: VOA104
Sample Amount	: 4.3 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 73
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	8.0	3.7	U
75-34-3	1,1-Dichloroethane	ND	1.6	0.23	U
67-66-3	Chloroform	ND	2.4	0.22	U
56-23-5	Carbon tetrachloride	ND	1.6	0.37	U
78-87-5	1,2-Dichloropropane	ND	1.6	0.20	U
124-48-1	Dibromochloromethane	ND	1.6	0.22	U
79-00-5	1,1,2-Trichloroethane	ND	1.6	0.43	U
127-18-4	Tetrachloroethene	ND	0.80	0.32	U
108-90-7	Chlorobenzene	ND	0.80	0.20	U
75-69-4	Trichlorofluoromethane	ND	6.4	1.1	U
107-06-2	1,2-Dichloroethane	ND	1.6	0.41	U
71-55-6	1,1,1-Trichloroethane	ND	0.80	0.27	U
75-27-4	Bromodichloromethane	ND	0.80	0.18	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.6	0.44	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.80	0.25	U
75-25-2	Bromoform	ND	6.4	0.40	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.80	0.27	U
71-43-2	Benzene	ND	0.80	0.27	U
108-88-3	Toluene	ND	1.6	0.87	U
100-41-4	Ethylbenzene	ND	1.6	0.23	U
74-87-3	Chloromethane	ND	6.4	1.5	U
74-83-9	Bromomethane	ND	3.2	0.93	U
75-01-4	Vinyl chloride	ND	1.6	0.54	U
75-00-3	Chloroethane	ND	3.2	0.73	U
75-35-4	1,1-Dichloroethene	ND	1.6	0.38	U
156-60-5	trans-1,2-Dichloroethene	ND	2.4	0.22	U
79-01-6	Trichloroethene	ND	0.80	0.22	U

Form 1
VOA

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-05	Date Collected	: 11/30/18 10:10
Client ID	: CB-01	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/06/18 16:32
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: MKS
Lab File ID	: V04181206A23	Instrument ID	: VOA104
Sample Amount	: 4.3 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 73
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
95-50-1	1,2-Dichlorobenzene	ND	3.2	0.23	U
541-73-1	1,3-Dichlorobenzene	ND	3.2	0.24	U
106-46-7	1,4-Dichlorobenzene	ND	3.2	0.27	U
1634-04-4	Methyl tert butyl ether	ND	3.2	0.32	U
179601-23-1	p/m-Xylene	ND	3.2	0.90	U
95-47-6	o-Xylene	ND	1.6	0.47	U
156-59-2	cis-1,2-Dichloroethene	ND	1.6	0.28	U
100-42-5	Styrene	ND	1.6	0.32	U
75-71-8	Dichlorodifluoromethane	ND	16	1.5	U
67-64-1	Acetone	ND	16	7.7	U
75-15-0	Carbon disulfide	ND	16	7.3	U
78-93-3	2-Butanone	ND	16	3.6	U
108-10-1	4-Methyl-2-pentanone	ND	16	2.0	U
591-78-6	2-Hexanone	ND	16	1.9	U
74-97-5	Bromochloromethane	ND	3.2	0.33	U
106-93-4	1,2-Dibromoethane	ND	1.6	0.45	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.8	1.6	U
98-82-8	Isopropylbenzene	ND	1.6	0.18	U
87-61-6	1,2,3-Trichlorobenzene	ND	3.2	0.52	U
120-82-1	1,2,4-Trichlorobenzene	ND	3.2	0.44	U
79-20-9	Methyl Acetate	ND	6.4	1.5	U
110-82-7	Cyclohexane	ND	16	0.87	U
123-91-1	1,4-Dioxane	ND	160	56.	U
76-13-1	Freon-113	ND	6.4	1.1	U
108-87-2	Methyl cyclohexane	ND	6.4	0.97	U

Form 1
VOA

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-06	Date Collected	: 11/30/18 12:00
Client ID	: DUP-18	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/06/18 16:59
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: MKS
Lab File ID	: V04181206A24	Instrument ID	: VOA104
Sample Amount	: 4.4 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 49
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	12	5.4	U
75-34-3	1,1-Dichloroethane	ND	2.4	0.34	U
67-66-3	Chloroform	ND	3.5	0.33	U
56-23-5	Carbon tetrachloride	ND	2.4	0.54	U
78-87-5	1,2-Dichloropropane	ND	2.4	0.29	U
124-48-1	Dibromochloromethane	ND	2.4	0.33	U
79-00-5	1,1,2-Trichloroethane	ND	2.4	0.63	U
127-18-4	Tetrachloroethene	ND	1.2	0.46	U
108-90-7	Chlorobenzene	ND	1.2	0.30	U
75-69-4	Trichlorofluoromethane	ND	9.4	1.6	U
107-06-2	1,2-Dichloroethane	ND	2.4	0.60	U
71-55-6	1,1,1-Trichloroethane	ND	1.2	0.39	U
75-27-4	Bromodichloromethane	ND	1.2	0.26	U
10061-02-6	trans-1,3-Dichloropropene	ND	2.4	0.64	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.2	0.37	U
75-25-2	Bromoform	ND	9.4	0.58	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.2	0.39	U
71-43-2	Benzene	ND	1.2	0.39	U
108-88-3	Toluene	6.0	2.4	1.3	
100-41-4	Ethylbenzene	0.39	2.4	0.33	J
74-87-3	Chloromethane	ND	9.4	2.2	U
74-83-9	Bromomethane	ND	4.7	1.4	U
75-01-4	Vinyl chloride	ND	2.4	0.79	U
75-00-3	Chloroethane	ND	4.7	1.1	U
75-35-4	1,1-Dichloroethene	ND	2.4	0.56	U
156-60-5	trans-1,2-Dichloroethene	ND	3.5	0.32	U
79-01-6	Trichloroethene	ND	1.2	0.32	U

Form 1
VOA

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-06	Date Collected	: 11/30/18 12:00
Client ID	: DUP-18	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/06/18 16:59
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: MKS
Lab File ID	: V04181206A24	Instrument ID	: VOA104
Sample Amount	: 4.4 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 49
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
95-50-1	1,2-Dichlorobenzene	ND	4.7	0.34	U
541-73-1	1,3-Dichlorobenzene	ND	4.7	0.35	U
106-46-7	1,4-Dichlorobenzene	ND	4.7	0.40	U
1634-04-4	Methyl tert butyl ether	ND	4.7	0.47	U
179601-23-1	p/m-Xylene	ND	4.7	1.3	U
95-47-6	o-Xylene	ND	2.4	0.68	U
156-59-2	cis-1,2-Dichloroethene	ND	2.4	0.41	U
100-42-5	Styrene	ND	2.4	0.46	U
75-71-8	Dichlorodifluoromethane	ND	24	2.2	U
67-64-1	Acetone	140	24	11.	
75-15-0	Carbon disulfide	ND	24	11.	U
78-93-3	2-Butanone	35	24	5.2	
108-10-1	4-Methyl-2-pentanone	ND	24	3.0	U
591-78-6	2-Hexanone	ND	24	2.8	U
74-97-5	Bromochloromethane	ND	4.7	0.48	U
106-93-4	1,2-Dibromoethane	ND	2.4	0.66	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	7.1	2.4	U
98-82-8	Isopropylbenzene	ND	2.4	0.26	U
87-61-6	1,2,3-Trichlorobenzene	ND	4.7	0.76	U
120-82-1	1,2,4-Trichlorobenzene	ND	4.7	0.64	U
79-20-9	Methyl Acetate	ND	9.4	2.2	U
110-82-7	Cyclohexane	ND	24	1.3	U
123-91-1	1,4-Dioxane	ND	240	83.	U
76-13-1	Freon-113	ND	9.4	1.6	U
108-87-2	Methyl cyclohexane	ND	9.4	1.4	U

Form 1
VOA

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: WG1186463-5	Date Collected	: NA
Client ID	: WG1186463-5BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 12/06/18 08:31
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: MV
Lab File ID	: V04181206A05	Instrument ID	: VOA104
Sample Amount	: 5.0 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: NA
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	5.0	2.3	U
75-34-3	1,1-Dichloroethane	ND	1.0	0.14	U
67-66-3	Chloroform	ND	1.5	0.14	U
56-23-5	Carbon tetrachloride	ND	1.0	0.23	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.12	U
124-48-1	Dibromochloromethane	ND	1.0	0.14	U
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.27	U
127-18-4	Tetrachloroethene	ND	0.50	0.20	U
108-90-7	Chlorobenzene	ND	0.50	0.13	U
75-69-4	Trichlorofluoromethane	ND	4.0	0.70	U
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	U
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.17	U
75-27-4	Bromodichloromethane	ND	0.50	0.11	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.27	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.16	U
75-25-2	Bromoform	ND	4.0	0.25	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.17	U
108-88-3	Toluene	ND	1.0	0.54	U
100-41-4	Ethylbenzene	ND	1.0	0.14	U
74-87-3	Chloromethane	ND	4.0	0.93	U
74-83-9	Bromomethane	ND	2.0	0.58	U
75-01-4	Vinyl chloride	ND	1.0	0.34	U
75-00-3	Chloroethane	ND	2.0	0.45	U
75-35-4	1,1-Dichloroethene	ND	1.0	0.24	U
156-60-5	trans-1,2-Dichloroethene	ND	1.5	0.14	U
79-01-6	Trichloroethene	ND	0.50	0.14	U

Form 1
VOA

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: WG1186463-5	Date Collected	: NA
Client ID	: WG1186463-5BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 12/06/18 08:31
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: MV
Lab File ID	: V04181206A05	Instrument ID	: VOA104
Sample Amount	: 5.0 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: NA
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
95-50-1	1,2-Dichlorobenzene	ND	2.0	0.14	U
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.15	U
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.17	U
1634-04-4	Methyl tert butyl ether	ND	2.0	0.20	U
179601-23-1	p/m-Xylene	ND	2.0	0.56	U
95-47-6	o-Xylene	ND	1.0	0.29	U
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.18	U
100-42-5	Styrene	ND	1.0	0.20	U
75-71-8	Dichlorodifluoromethane	ND	10	0.92	U
67-64-1	Acetone	ND	10	4.8	U
75-15-0	Carbon disulfide	ND	10	4.6	U
78-93-3	2-Butanone	ND	10	2.2	U
108-10-1	4-Methyl-2-pentanone	ND	10	1.3	U
591-78-6	2-Hexanone	ND	10	1.2	U
74-97-5	Bromochloromethane	ND	2.0	0.20	U
106-93-4	1,2-Dibromoethane	ND	1.0	0.28	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.0	1.0	U
98-82-8	Isopropylbenzene	ND	1.0	0.11	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.32	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.27	U
79-20-9	Methyl Acetate	ND	4.0	0.95	U
110-82-7	Cyclohexane	ND	10	0.54	U
123-91-1	1,4-Dioxane	ND	100	35.	U
76-13-1	Freon-113	ND	4.0	0.69	U
108-87-2	Methyl cyclohexane	ND	4.0	0.60	U

Form 1
VOA

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: WG1186672-5	Date Collected	: NA
Client ID	: WG1186672-5BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 12/06/18 15:55
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: JC
Lab File ID	: V11181206N04	Instrument ID	: VOA111
Sample Amount	: 5.0 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: NA
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	5.0	2.3	U
75-34-3	1,1-Dichloroethane	ND	1.0	0.14	U
67-66-3	Chloroform	ND	1.5	0.14	U
56-23-5	Carbon tetrachloride	ND	1.0	0.23	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.12	U
124-48-1	Dibromochloromethane	ND	1.0	0.14	U
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.27	U
127-18-4	Tetrachloroethene	ND	0.50	0.20	U
108-90-7	Chlorobenzene	ND	0.50	0.13	U
75-69-4	Trichlorofluoromethane	ND	4.0	0.70	U
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	U
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.17	U
75-27-4	Bromodichloromethane	ND	0.50	0.11	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.27	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.16	U
75-25-2	Bromoform	ND	4.0	0.25	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.17	U
71-43-2	Benzene	ND	0.50	0.17	U
108-88-3	Toluene	ND	1.0	0.54	U
100-41-4	Ethylbenzene	ND	1.0	0.14	U
74-87-3	Chloromethane	ND	4.0	0.93	U
74-83-9	Bromomethane	ND	2.0	0.58	U
75-01-4	Vinyl chloride	ND	1.0	0.34	U
75-00-3	Chloroethane	ND	2.0	0.45	U
75-35-4	1,1-Dichloroethene	ND	1.0	0.24	U
156-60-5	trans-1,2-Dichloroethene	ND	1.5	0.14	U
79-01-6	Trichloroethene	ND	0.50	0.14	U

Form 1
VOA

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: WG1186672-5	Date Collected	: NA
Client ID	: WG1186672-5BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 12/06/18 15:55
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: JC
Lab File ID	: V11181206N04	Instrument ID	: VOA111
Sample Amount	: 5.0 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: NA
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
95-50-1	1,2-Dichlorobenzene	ND	2.0	0.14	U
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.15	U
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.17	U
1634-04-4	Methyl tert butyl ether	ND	2.0	0.20	U
179601-23-1	p/m-Xylene	ND	2.0	0.56	U
95-47-6	o-Xylene	ND	1.0	0.29	U
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.18	U
100-42-5	Styrene	ND	1.0	0.20	U
75-71-8	Dichlorodifluoromethane	ND	10	0.92	U
67-64-1	Acetone	ND	10	4.8	U
75-15-0	Carbon disulfide	ND	10	4.6	U
78-93-3	2-Butanone	ND	10	2.2	U
108-10-1	4-Methyl-2-pentanone	ND	10	1.3	U
591-78-6	2-Hexanone	ND	10	1.2	U
74-97-5	Bromochloromethane	ND	2.0	0.20	U
106-93-4	1,2-Dibromoethane	ND	1.0	0.28	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.0	1.0	U
98-82-8	Isopropylbenzene	ND	1.0	0.11	U
87-61-6	1,2,3-Trichlorobenzene	0.47	2.0	0.32	J
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.27	U
79-20-9	Methyl Acetate	ND	4.0	0.95	U
110-82-7	Cyclohexane	ND	10	0.54	U
123-91-1	1,4-Dioxane	ND	100	35.	U
76-13-1	Freon-113	ND	4.0	0.69	U
108-87-2	Methyl cyclohexane	ND	4.0	0.60	U

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2018\181206A\
Data File : V04181206A21.D
Acq On : 6 Dec 2018 3:39 pm
Operator : VOA104:MKS
Sample : l1849060-02,31,4.58,5,,y
Misc : WG1186463,ICAL15180
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 06 18:14:46 2018
Quant Method : I:\VOLATILES\VOA104\2018\181206A\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 30 09:42:37 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2018\181206A\V04181206A01.D
Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	5.875	96	125950	20.000 ug/L	0.00
Standard Area 1 = 131170			Recovery = 96.02%		
59) Chlorobenzene-d5	9.388	117	92224	20.000 ug/L	0.00
Standard Area 1 = 100348			Recovery = 91.90%		
79) 1,4-Dichlorobenzene-d4	12.120	152	41870	20.000 ug/L	0.00
Standard Area 1 = 50893			Recovery = 82.27%		
System Monitoring Compounds					
36) Dibromofluoromethane	5.083	113	36379	22.687 ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 113.44%		
43) 1,2-Dichloroethane-d4	5.602	65	41314	22.723 ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 113.61%		
60) Toluene-d8	7.548	98	134788	22.037 ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 110.19%		
83) 4-Bromofluorobenzene	10.903	95	47895	23.720 ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 118.60%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.	
3) Chloromethane	1.791	50	195	N.D.	
4) Vinyl chloride	0.000		0	N.D.	
5) Bromomethane	2.168	94	382	Below Cal #	4
6) Chloroethane	0.000		0	N.D. d	
7) Trichlorofluoromethane	0.000		0	N.D.	
10) 1,1-Dichloroethene	0.000		0	N.D.	
11) Carbon disulfide	2.897	76	1795	0.518 ug/L #	80
12) Freon-113	0.000		0	N.D.	
15) Methylene chloride	3.416	84	635	0.336 ug/L #	69
17) Acetone	3.490	43	852	1.528 ug/L #	56
18) trans-1,2-Dichloroethene	0.000		0	N.D.	
19) Methyl acetate	0.000		0	N.D. d	
20) Methyl tert-butyl ether	0.000		0	N.D.	
23) 1,1-Dichloroethane	0.000		0	N.D.	
28) cis-1,2-Dichloroethene	0.000		0	N.D.	
30) Bromochloromethane	0.000		0	N.D.	
31) Cyclohexane	0.000		0	N.D.	
32) Chloroform	4.910	83	114	N.D.	
34) Carbon tetrachloride	0.000		0	N.D.	

Data Path : I:\VOLATILES\VOA104\2018\181206A\
Data File : V04181206A21.D
Acq On : 6 Dec 2018 3:39 pm
Operator : VOA104:MKS
Sample : l1849060-02,31,4.58,5,,y
Misc : WG1186463,ICAL15180
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 06 18:14:46 2018
Quant Method : I:\VOLATILES\VOA104\2018\181206A\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 30 09:42:37 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2018\181206A\V04181206A01.D
Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	0.000		0		N.D.	
39) 2-Butanone	0.000		0		N.D.	
41) Benzene	5.461	78	50		N.D.	
44) 1,2-Dichloroethane	0.000		0		N.D.	
47) Methyl cyclohexane	0.000		0		N.D.	
48) Trichloroethene	0.000		0		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
57) 1,4-Dioxane	0.000		0		N.D.	
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	0.000		0		N.D.	
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	
65) trans-1,3-Dichloropropene	0.000		0		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	0.000		0		N.D.	
73) Chlorobenzene	0.000		0		N.D.	
74) Ethylbenzene	0.000		0		N.D.	
76) p/m Xylene	0.000		0		N.D.	
77) o Xylene	0.000		0		N.D.	
78) Styrene	0.000		0		N.D.	
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	0.000		0		N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
100) 1,3-Dichlorobenzene	0.000		0		N.D.	
101) 1,4-Dichlorobenzene	0.000		0		N.D.	
104) 1,2-Dichlorobenzene	0.000		0		N.D.	
106) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
109) 1,2,4-Trichlorobenzene	0.000		0		N.D.	
111) 1,2,3-Trichlorobenzene	0.000		0		N.D.	

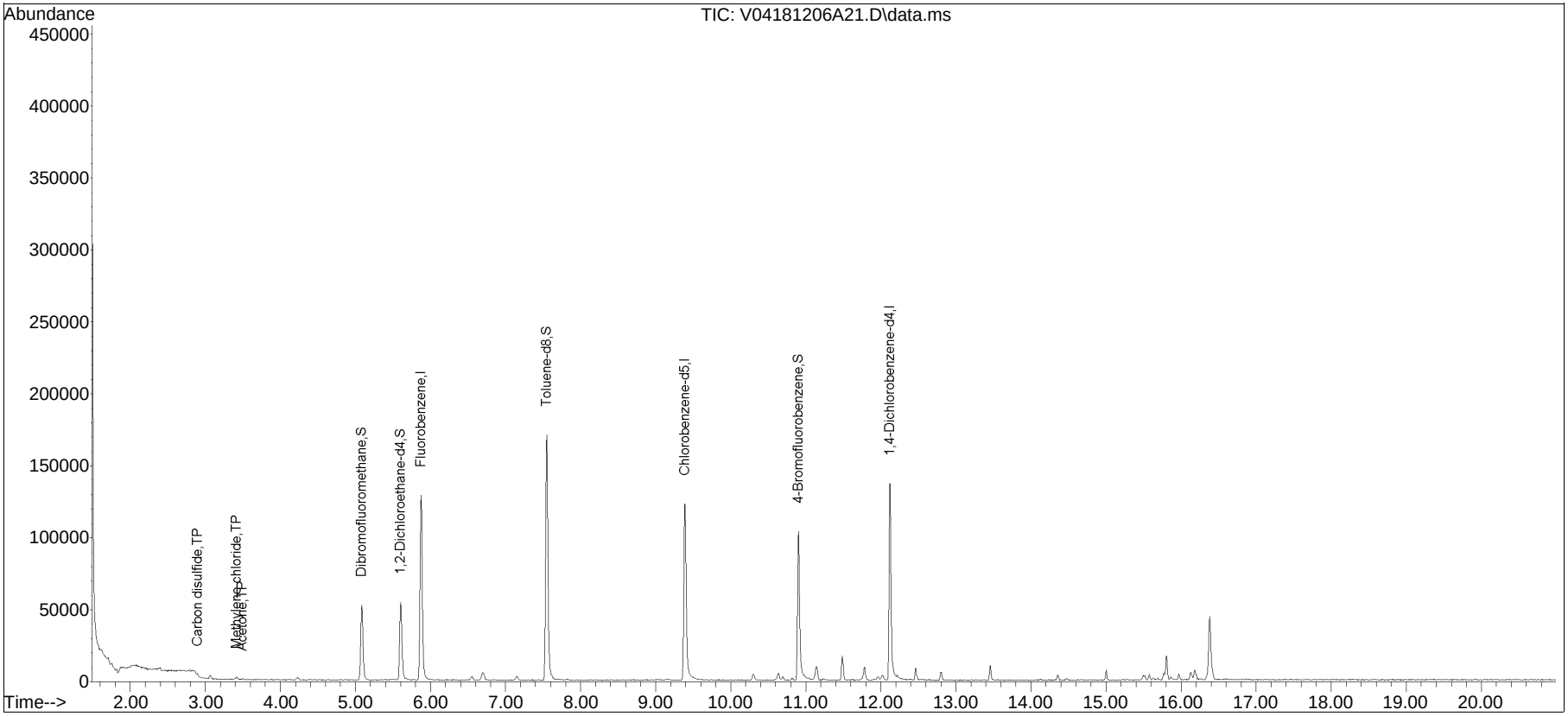
(#) = qualifier out of range (m) = manual integration (+) = signals summed

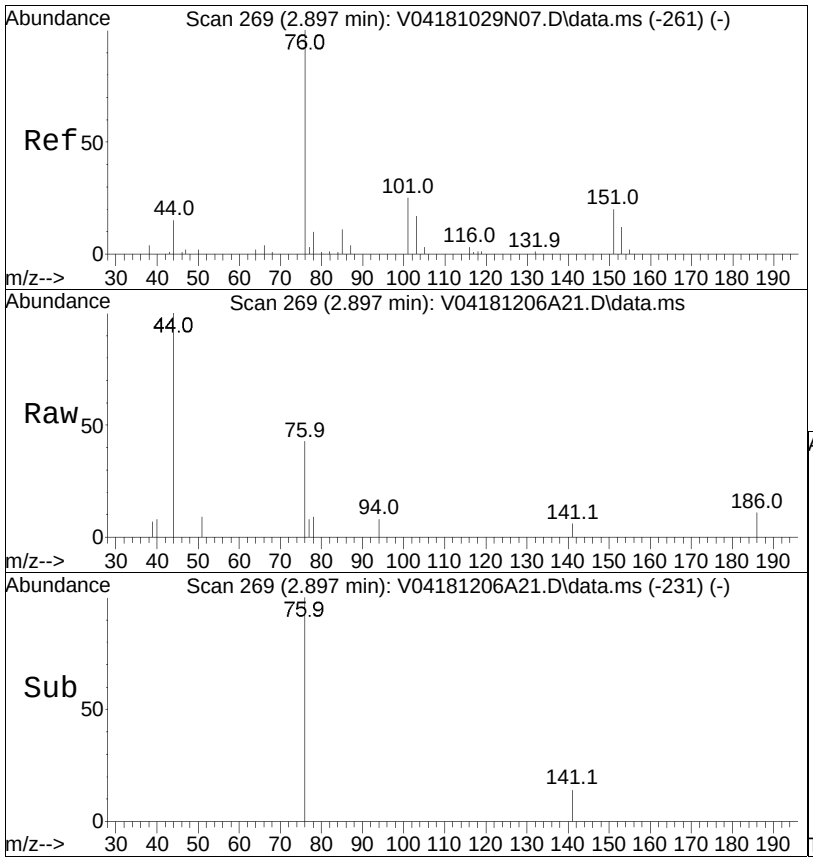
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2018\181206A\
Data File : V04181206A21.D
Acq On : 6 Dec 2018 3:39 pm
Operator : VOA104:MKS
Sample : l1849060-02,31,4.58,5,,y
Misc : WG1186463,ICAL15180
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 06 18:14:46 2018
Quant Method : I:\VOLATILES\VOA104\2018\181206A\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 30 09:42:37 2018
Response via : Initial Calibration

Sub List : 8260-CurveSoil - Megamix plus Diox6A\V04181206A01.D•

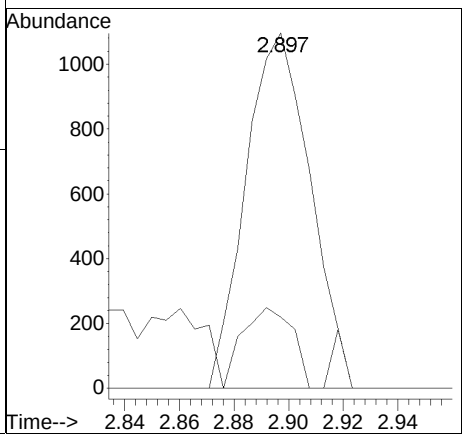


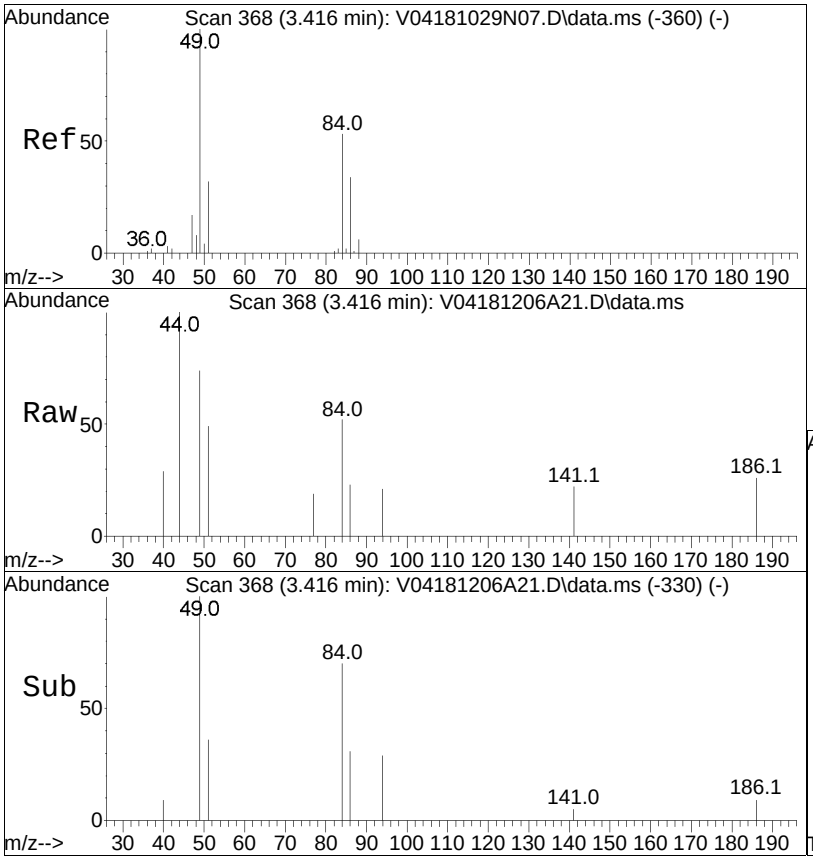


#11
Carbon disulfide
Concen: 0.52 ug/L
RT: 2.897 min Scan# 269
Delta R.T. 0.000 min
Lab File: V04181206A21.D
Acq: 6 Dec 2018 3:39 pm

Tgt Ion: 76 Resp: 1795

Ion	Ratio	Lower	Upper
76	100		
78	17.8	6.6	13.8#

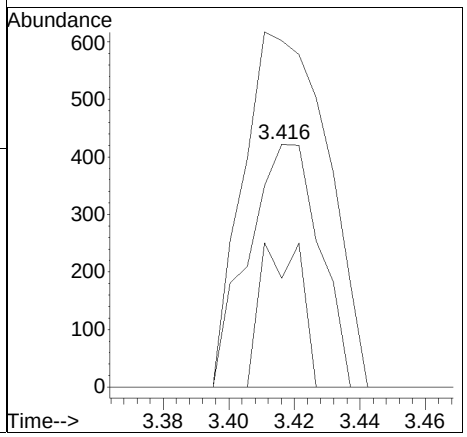


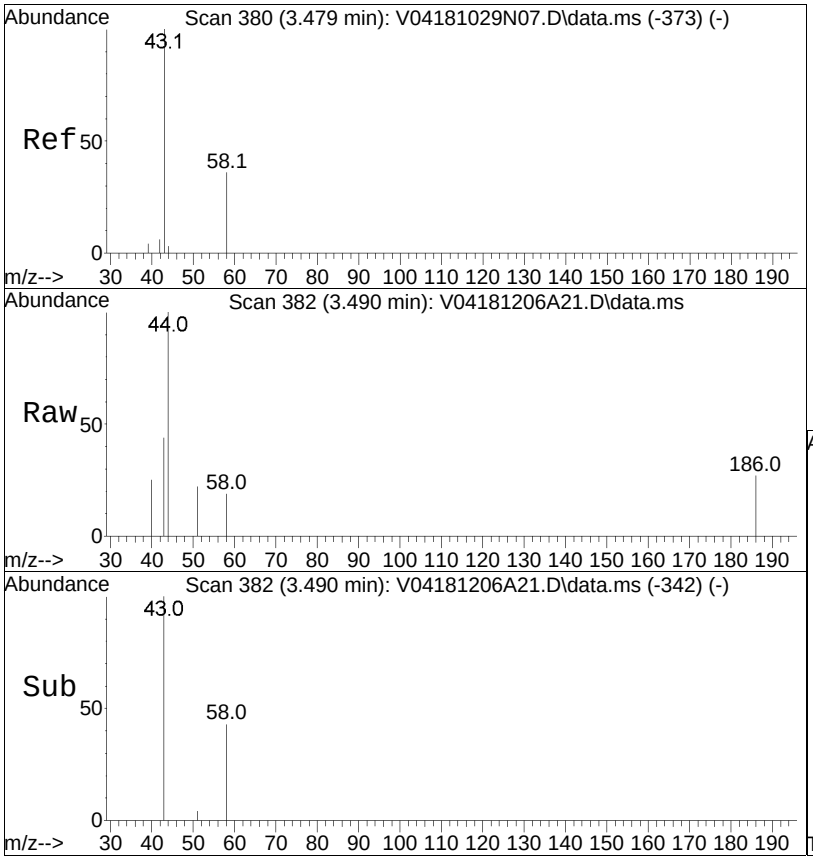


#15
Methylene chloride
Concen: 0.34 ug/L
RT: 3.416 min Scan# 368
Delta R.T. 0.000 min
Lab File: V04181206A21.D
Acq: 6 Dec 2018 3:39 pm

Tgt Ion: 84 Resp: 635

Ion	Ratio	Lower	Upper
84	100		
86	34.2	41.3	85.9#
49	173.5	91.0	189.0

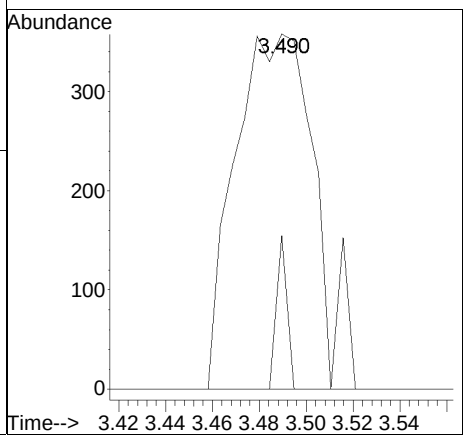




#17
Acetone
Concen: 1.53 ug/L
RT: 3.490 min Scan# 382
Delta R.T. 0.011 min
Lab File: V04181206A21.D
Acq: 6 Dec 2018 3:39 pm

Tgt Ion: 43 Resp: 852

Ion	Ratio	Lower	Upper
43	100		
58	5.8	23.2	34.8#



Manual Integration Report

Data Path	: I:\VOLATILES\VOA104\2018\1	QMethod	: V104_181029N_8260.m
Data File	: V04181206A21.D	Operator	: VOA104:MKS
Date Inj'd	: 12/6/2018 3:39 pm	Instrument	: VOA 104
Sample	: l1849060-02,31,4.58,5,,y	Quant Date	: 12/6/2018 6:12 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2018\181206A\
Data File : V04181206A22.D
Acq On : 6 Dec 2018 4:05 pm
Operator : VOA104:MKS
Sample : l1849060-04,31,5.88,5,,y
Misc : WG1186463,ICAL15180
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 06 18:15:03 2018
Quant Method : I:\VOLATILES\VOA104\2018\181206A\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 30 09:42:37 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2018\181206A\V04181206A01.D
Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	5.875	96	127034	20.000 ug/L	0.00
Standard Area 1 = 131170			Recovery = 96.85%		
59) Chlorobenzene-d5	9.388	117	94949	20.000 ug/L	0.00
Standard Area 1 = 100348			Recovery = 94.62%		
79) 1,4-Dichlorobenzene-d4	12.120	152	46360	20.000 ug/L	0.00
Standard Area 1 = 50893			Recovery = 91.09%		
System Monitoring Compounds					
36) Dibromofluoromethane	5.084	113	36377	22.493 ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 112.46%		
43) 1,2-Dichloroethane-d4	5.603	65	39936	21.777 ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 108.89%		
60) Toluene-d8	7.548	98	137047	21.763 ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 108.82%		
83) 4-Bromofluorobenzene	10.903	95	49839	22.292 ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 111.46%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.	
3) Chloromethane	1.791	50	206	N.D.	
4) Vinyl chloride	1.901	62	47	N.D.	
5) Bromomethane	2.174	94	132	Below Cal #	4
6) Chloroethane	0.000		0	N.D. d	
7) Trichlorofluoromethane	0.000		0	N.D.	
10) 1,1-Dichloroethene	0.000		0	N.D.	
11) Carbon disulfide	2.897	76	2636	0.753 ug/L #	73
12) Freon-113	0.000		0	N.D.	
15) Methylene chloride	3.416	84	622	0.327 ug/L #	58
17) Acetone	3.479	43	1569	2.789 ug/L	91
18) trans-1,2-Dichloroethene	0.000		0	N.D.	
19) Methyl acetate	3.605	43	100	N.D.	
20) Methyl tert-butyl ether	0.000		0	N.D.	
23) 1,1-Dichloroethane	0.000		0	N.D.	
28) cis-1,2-Dichloroethene	0.000		0	N.D.	
30) Bromochloromethane	0.000		0	N.D.	
31) Cyclohexane	0.000		0	N.D.	
32) Chloroform	0.000		0	N.D.	
34) Carbon tetrachloride	0.000		0	N.D.	

Data Path : I:\VOLATILES\VOA104\2018\181206A\
Data File : V04181206A22.D
Acq On : 6 Dec 2018 4:05 pm
Operator : VOA104:MKS
Sample : l1849060-04,31,5.88,5,,y
Misc : WG1186463,ICAL15180
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 06 18:15:03 2018
Quant Method : I:\VOLATILES\VOA104\2018\181206A\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 30 09:42:37 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2018\181206A\V04181206A01.D
Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	0.000		0	N.D.		
39) 2-Butanone	0.000		0	N.D.		
41) Benzene	5.461	78	281	N.D.		
44) 1,2-Dichloroethane	0.000		0	N.D.		
47) Methyl cyclohexane	0.000		0	N.D.		
48) Trichloroethene	0.000		0	N.D.		
51) 1,2-Dichloropropane	0.000		0	N.D.		
54) Bromodichloromethane	0.000		0	N.D.		
57) 1,4-Dioxane	0.000		0	N.D.		
58) cis-1,3-Dichloropropene	0.000		0	N.D.		
61) Toluene	7.616	92	641	0.151	ug/L	88
62) 4-Methyl-2-pentanone	0.000		0	N.D.		
63) Tetrachloroethene	0.000		0	N.D.		
65) trans-1,3-Dichloropropene	0.000		0	N.D.		
68) 1,1,2-Trichloroethane	0.000		0	N.D.		
69) Chlorodibromomethane	0.000		0	N.D.		
71) 1,2-Dibromoethane	0.000		0	N.D.		
72) 2-Hexanone	0.000		0	N.D.		
73) Chlorobenzene	0.000		0	N.D.		
74) Ethylbenzene	0.000		0	N.D.		
76) p/m Xylene	0.000		0	N.D.		
77) o Xylene	0.000		0	N.D.		
78) Styrene	0.000		0	N.D.		
80) Bromoform	0.000		0	N.D.		
82) Isopropylbenzene	10.594	105	51	N.D.		
87) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
100) 1,3-Dichlorobenzene	0.000		0	N.D.		
101) 1,4-Dichlorobenzene	0.000		0	N.D.		
104) 1,2-Dichlorobenzene	0.000		0	N.D.		
106) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
109) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
111) 1,2,3-Trichlorobenzene	0.000		0	N.D.		

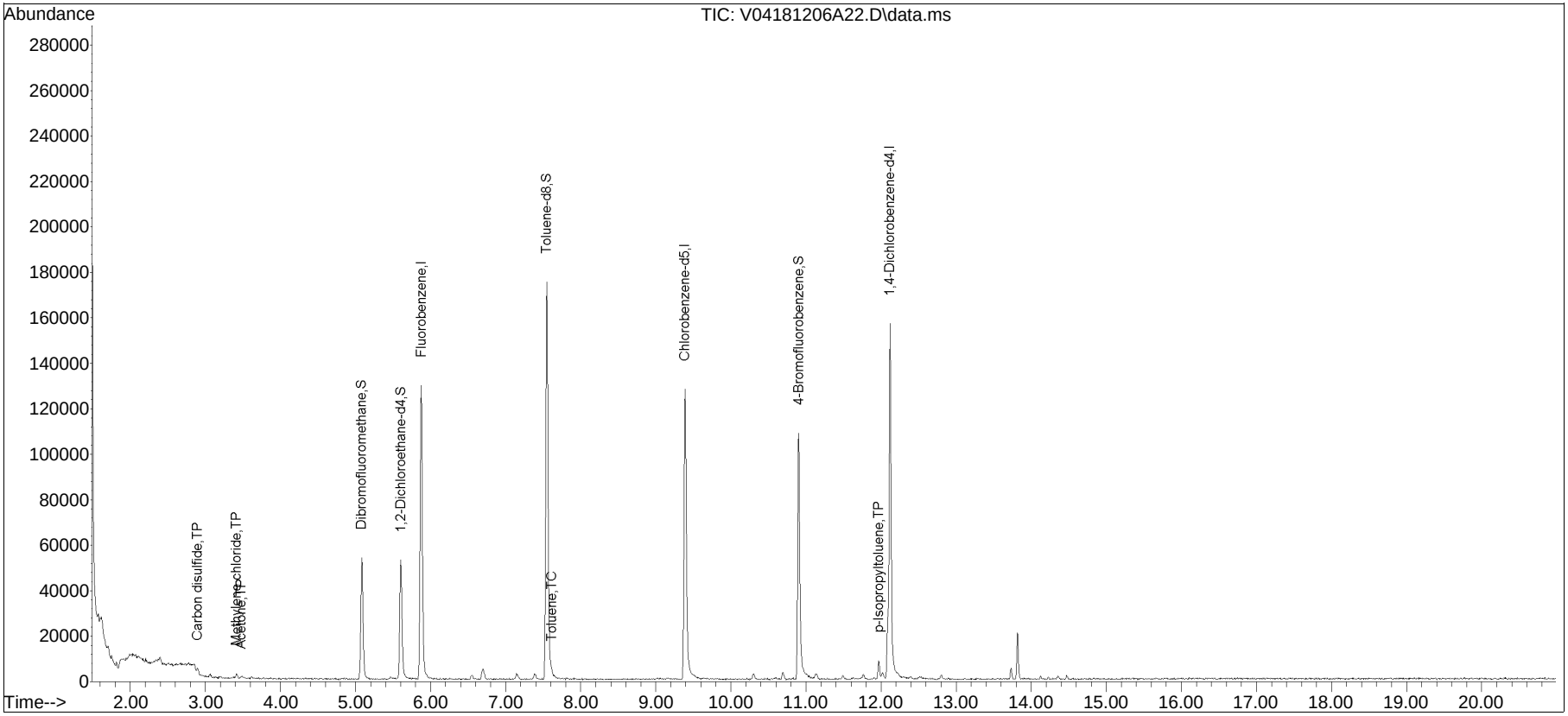
(#) = qualifier out of range (m) = manual integration (+) = signals summed

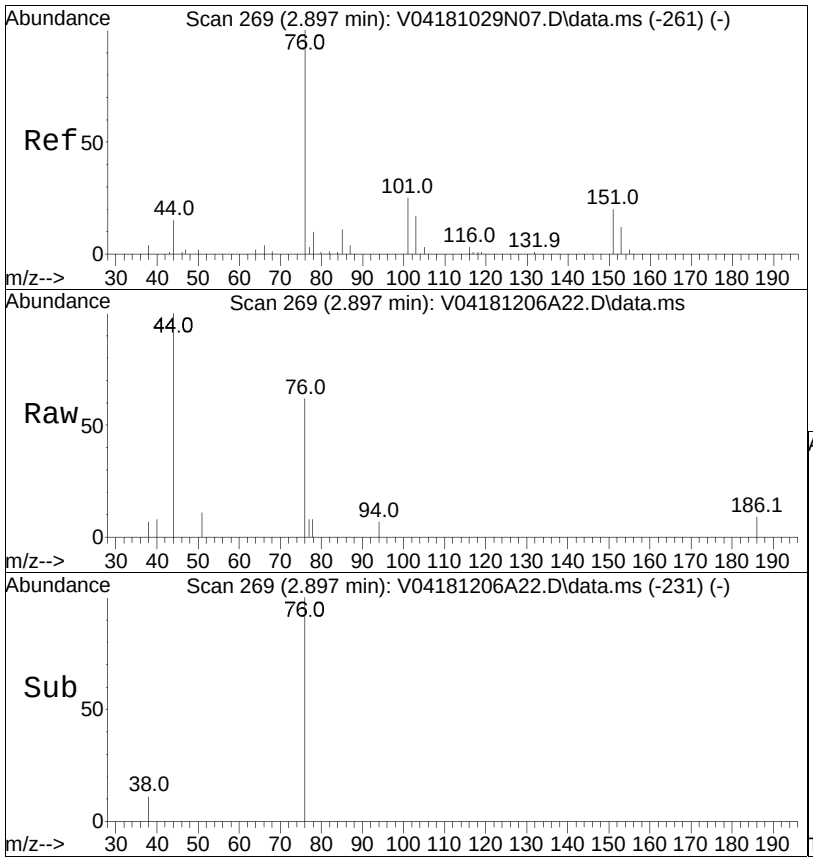
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2018\181206A\
Data File : V04181206A22.D
Acq On : 6 Dec 2018 4:05 pm
Operator : VOA104:MKS
Sample : l1849060-04,31,5.88,5,,y
Misc : WG1186463,ICAL15180
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 06 18:15:03 2018
Quant Method : I:\VOLATILES\VOA104\2018\181206A\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 30 09:42:37 2018
Response via : Initial Calibration

Sub List : 8260-CurveSoil - Megamix plus Diox6A\V04181206A01.D•

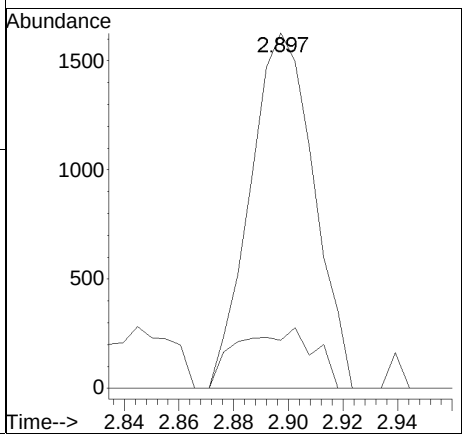


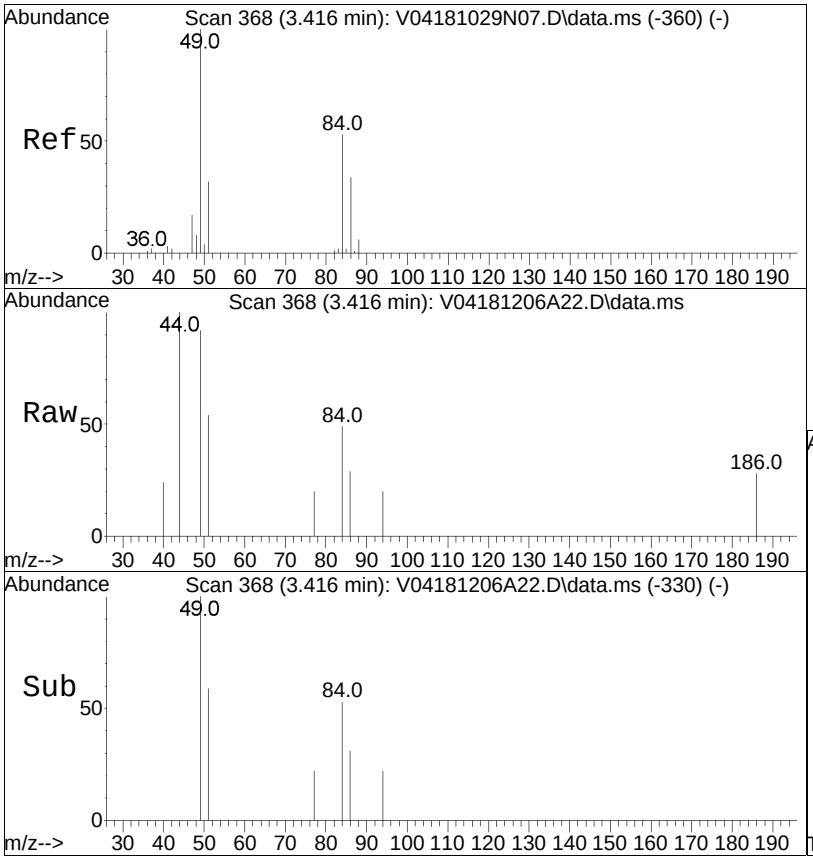


#11
Carbon disulfide
Concen: 0.75 ug/L
RT: 2.897 min Scan# 269
Delta R.T. 0.000 min
Lab File: V04181206A22.D
Acq: 6 Dec 2018 4:05 pm

Tgt Ion: 76 Resp: 2636

Ion	Ratio	Lower	Upper
76	100		
78	20.2	6.6	13.8#

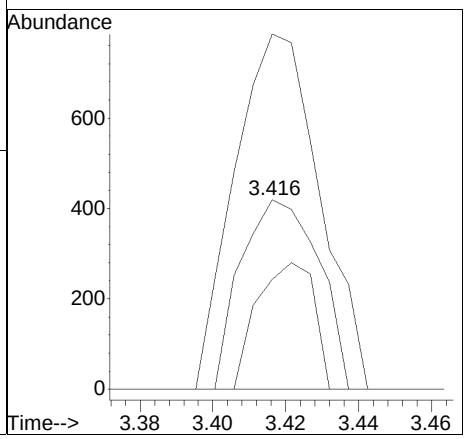


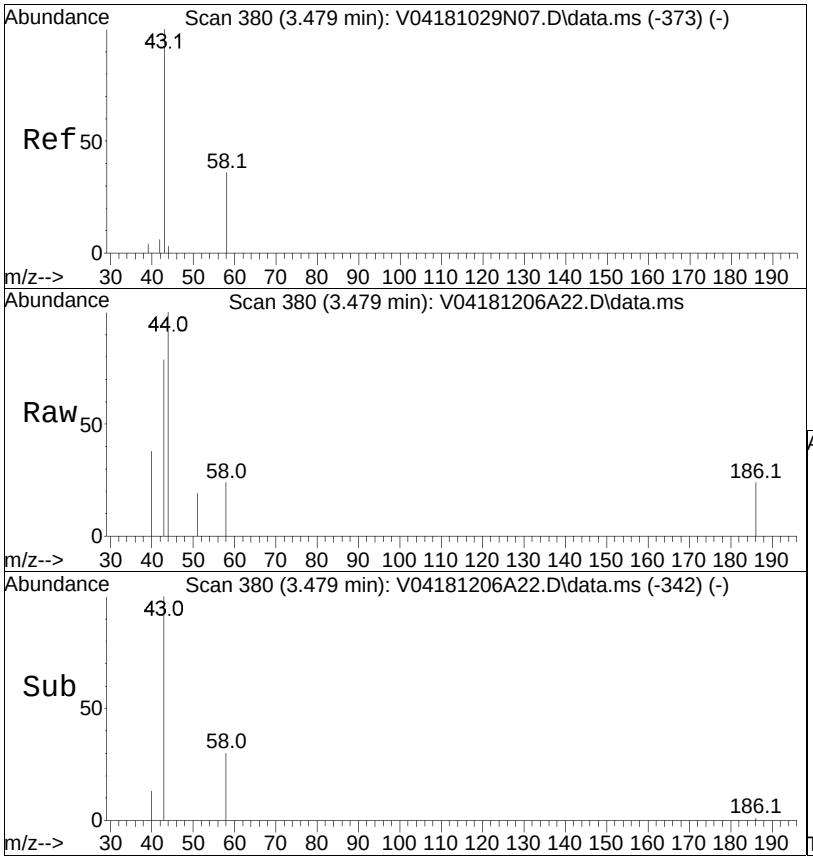


#15
Methylene chloride
Concen: 0.33 ug/L
RT: 3.416 min Scan# 368
Delta R.T. 0.000 min
Lab File: V04181206A22.D
Acq: 6 Dec 2018 4:05 pm

Tgt Ion: 84 Resp: 622

Ion	Ratio	Lower	Upper
84	100		
86	48.7	41.3	85.9
49	204.3	91.0	189.0#

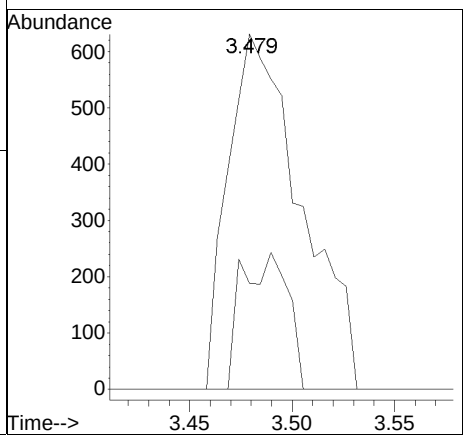


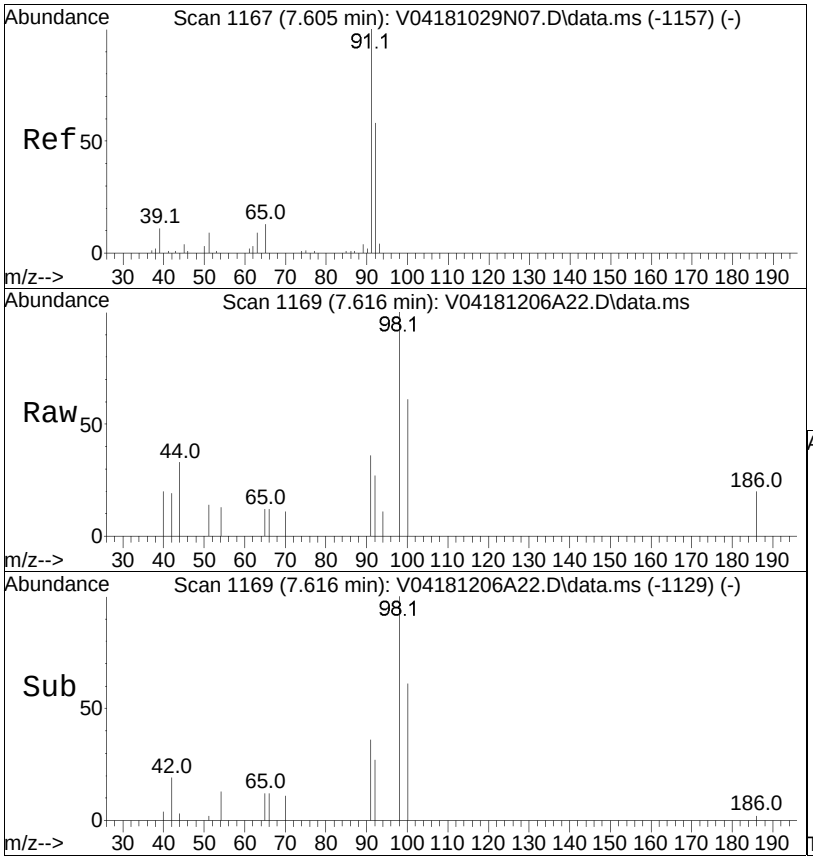


#17
Acetone
Concen: 2.79 ug/L
RT: 3.479 min Scan# 380
Delta R.T. 0.000 min
Lab File: V04181206A22.D
Acq: 6 Dec 2018 4:05 pm

Tgt Ion: 43 Resp: 1569

Ion	Ratio	Lower	Upper
43	100		
58	24.2	23.2	34.8

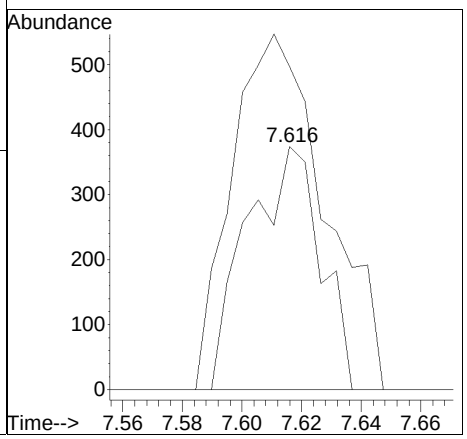




#61
Toluene
Concen: 0.15 ug/L
RT: 7.616 min Scan# 1169
Delta R.T. 0.011 min
Lab File: V04181206A22.D
Acq: 6 Dec 2018 4:05 pm

Tgt Ion: 92 Resp: 641

Ion	Ratio	Lower	Upper
92	100		
91	185.8	135.8	203.6



Manual Integration Report

Data Path	: I:\VOLATILES\VOA104\2018\1	QMethod	: V104_181029N_8260.m
Data File	: V04181206A22.D	Operator	: VOA104:MKS
Date Inj'd	: 12/6/2018 4:05 pm	Instrument	: VOA 104
Sample	: l1849060-04,31,5.88,5,,y	Quant Date	: 12/6/2018 6:12 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2018\181206A\
Data File : V04181206A23.D
Acq On : 6 Dec 2018 4:32 pm
Operator : VOA104:MKS
Sample : l1849060-05,31,4.26,5,,y
Misc : WG1186463,ICAL15180
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 06 18:15:46 2018
Quant Method : I:\VOLATILES\VOA104\2018\181206A\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 30 09:42:37 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2018\181206A\V04181206A01.D
Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	5.875	96	125836	20.000 ug/L	0.00
Standard Area 1 = 131170			Recovery = 95.93%		
59) Chlorobenzene-d5	9.388	117	94113	20.000 ug/L	0.00
Standard Area 1 = 100348			Recovery = 93.79%		
79) 1,4-Dichlorobenzene-d4	12.120	152	45911	20.000 ug/L	0.00
Standard Area 1 = 50893			Recovery = 90.21%		
System Monitoring Compounds					
36) Dibromofluoromethane	5.084	113	36968	23.076 ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 115.38%		
43) 1,2-Dichloroethane-d4	5.603	65	41329	22.751 ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 113.76%		
60) Toluene-d8	7.548	98	134921	21.616 ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 108.08%		
83) 4-Bromofluorobenzene	10.898	95	47913	21.640 ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 108.20%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.	
3) Chloromethane	1.791	50	64	N.D.	
4) Vinyl chloride	0.000		0	N.D.	
5) Bromomethane	2.169	94	109	Below Cal #	4
6) Chloroethane	0.000		0	N.D. d	
7) Trichlorofluoromethane	0.000		0	N.D.	
10) 1,1-Dichloroethene	0.000		0	N.D.	
11) Carbon disulfide	2.897	76	1826	0.527 ug/L #	88
12) Freon-113	0.000		0	N.D.	
15) Methylene chloride	3.422	84	475	0.252 ug/L #	52
17) Acetone	0.000		0	N.D. d	
18) trans-1,2-Dichloroethene	0.000		0	N.D.	
19) Methyl acetate	0.000		0	N.D. d	
20) Methyl tert-butyl ether	0.000		0	N.D.	
23) 1,1-Dichloroethane	0.000		0	N.D.	
28) cis-1,2-Dichloroethene	0.000		0	N.D.	
30) Bromochloromethane	0.000		0	N.D.	
31) Cyclohexane	0.000		0	N.D.	
32) Chloroform	4.911	83	216	N.D.	
34) Carbon tetrachloride	0.000		0	N.D.	

Data Path : I:\VOLATILES\VOA104\2018\181206A\
Data File : V04181206A23.D
Acq On : 6 Dec 2018 4:32 pm
Operator : VOA104:MKS
Sample : l1849060-05,31,4.26,5,,y
Misc : WG1186463,ICAL15180
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 06 18:15:46 2018
Quant Method : I:\VOLATILES\VOA104\2018\181206A\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 30 09:42:37 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2018\181206A\V04181206A01.D
Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	0.000		0		N.D.	
39) 2-Butanone	0.000		0		N.D.	
41) Benzene	5.477	78	48		N.D.	
44) 1,2-Dichloroethane	0.000		0		N.D.	
47) Methyl cyclohexane	0.000		0		N.D.	
48) Trichloroethene	0.000		0		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
57) 1,4-Dioxane	0.000		0		N.D.	
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	0.000		0		N.D.	
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	
65) trans-1,3-Dichloropropene	0.000		0		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	0.000		0		N.D.	
73) Chlorobenzene	0.000		0		N.D.	
74) Ethylbenzene	0.000		0		N.D.	
76) p/m Xylene	0.000		0		N.D.	
77) o Xylene	0.000		0		N.D.	
78) Styrene	0.000		0		N.D.	
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	0.000		0		N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
100) 1,3-Dichlorobenzene	0.000		0		N.D.	
101) 1,4-Dichlorobenzene	0.000		0		N.D.	
104) 1,2-Dichlorobenzene	0.000		0		N.D.	
106) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
109) 1,2,4-Trichlorobenzene	0.000		0		N.D.	
111) 1,2,3-Trichlorobenzene	0.000		0		N.D.	

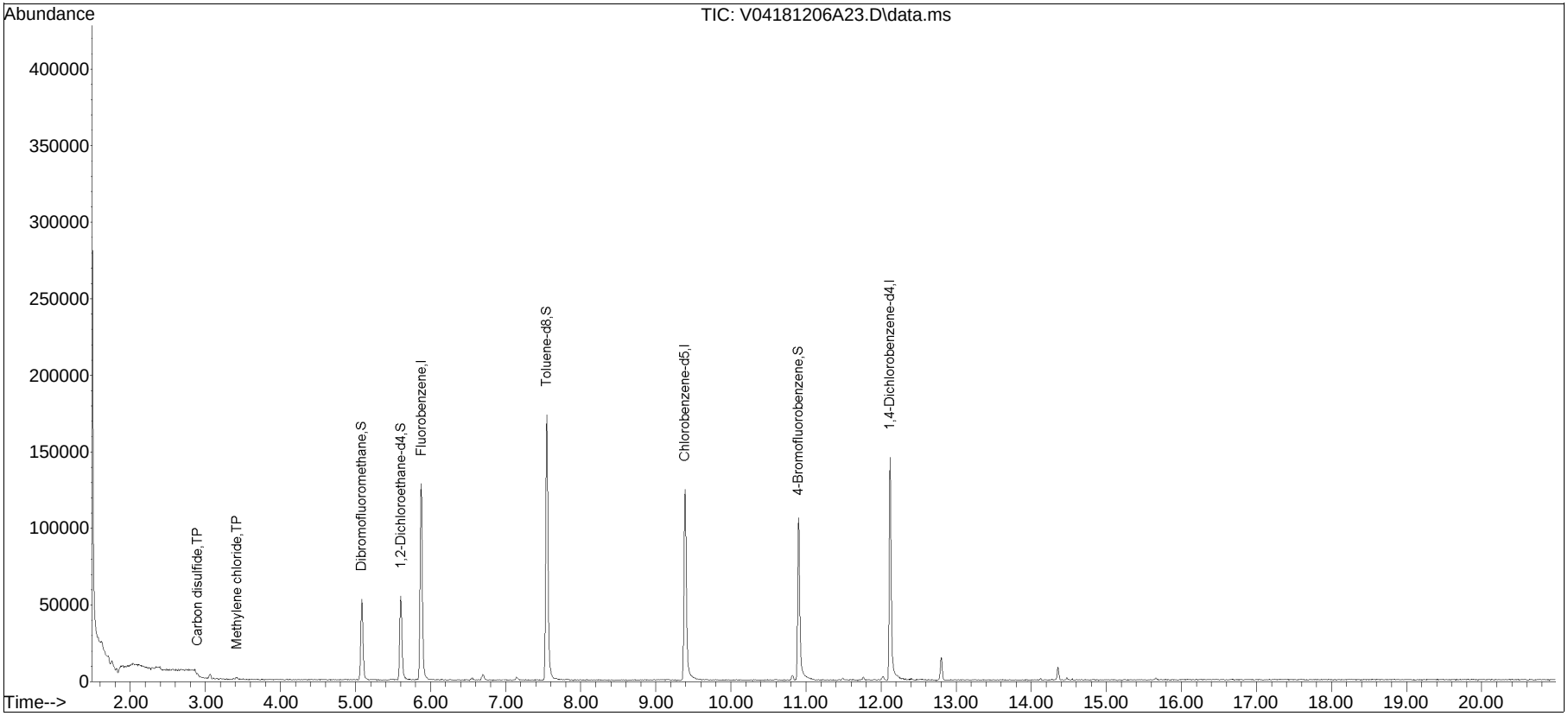
(#) = qualifier out of range (m) = manual integration (+) = signals summed

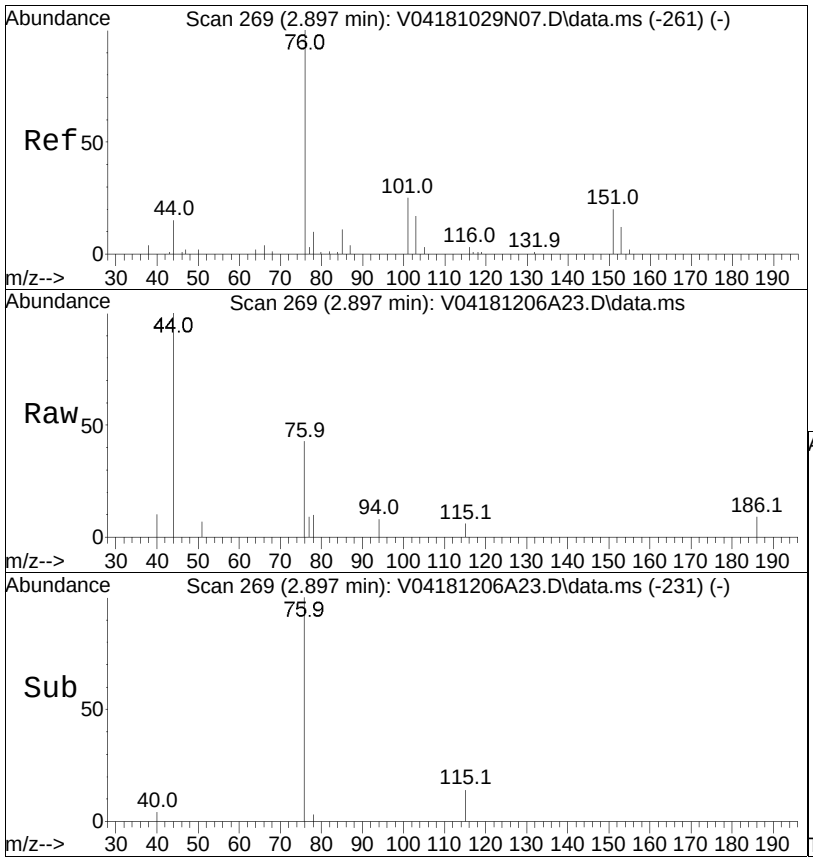
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2018\181206A\
Data File : V04181206A23.D
Acq On : 6 Dec 2018 4:32 pm
Operator : VOA104:MKS
Sample : l1849060-05,31,4.26,5,,y
Misc : WG1186463,ICAL15180
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 06 18:15:46 2018
Quant Method : I:\VOLATILES\VOA104\2018\181206A\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 30 09:42:37 2018
Response via : Initial Calibration

Sub List : 8260-CurveSoil - Megamix plus Diox6A\V04181206A01.D•

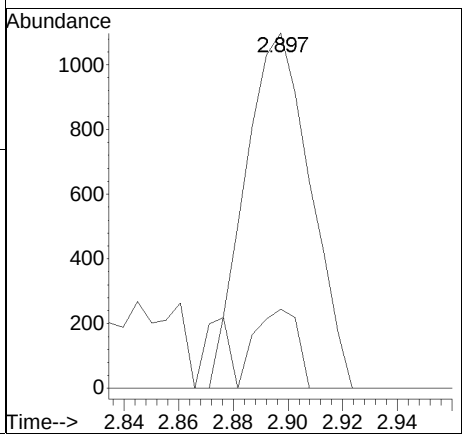


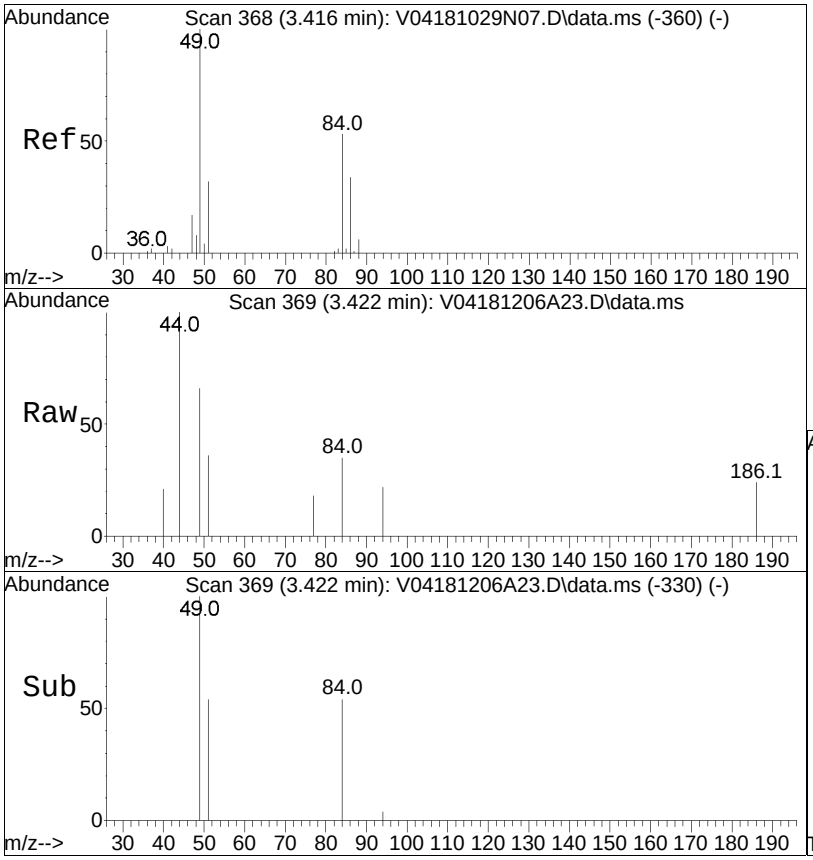


#11
Carbon disulfide
Concen: 0.53 ug/L
RT: 2.897 min Scan# 269
Delta R.T. 0.000 min
Lab File: V04181206A23.D
Acq: 6 Dec 2018 4:32 pm

Tgt Ion: 76 Resp: 1826

Ion	Ratio	Lower	Upper
76	100		
78	14.5	6.6	13.8#

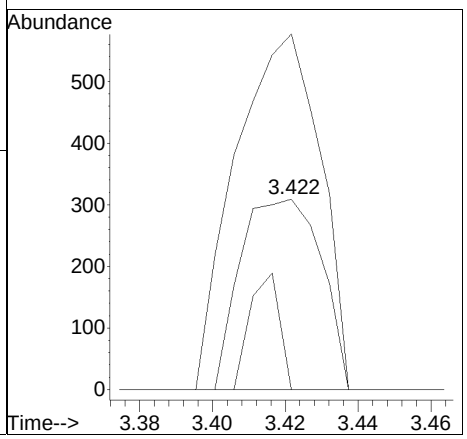




#15
Methylene chloride
Concen: 0.25 ug/L
RT: 3.422 min Scan# 369
Delta R.T. 0.006 min
Lab File: V04181206A23.D
Acq: 6 Dec 2018 4:32 pm

Tgt Ion: 84 Resp: 475

Ion	Ratio	Lower	Upper
84	100		
86	22.5	41.3	85.9#
49	196.0	91.0	189.0#



Manual Integration Report

Data Path	: I:\VOLATILES\VOA104\2018\1Q	Method	: V104_181029N_8260.m
Data File	: V04181206A23.D	Operator	: VOA104:MKS
Date Inj'd	: 12/6/2018 4:32 pm	Instrument	: VOA 104
Sample	: l1849060-05,31,4.26,5,,y	Quant Date	: 12/6/2018 6:12 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2018\181206A\
Data File : V04181206A24.D
Acq On : 6 Dec 2018 4:59 pm
Operator : VOA104:MKS
Sample : l1849060-06,31,4.35,5,,y
Misc : WG1186463,ICAL15180
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 06 18:17:39 2018
Quant Method : I:\VOLATILES\VOA104\2018\181206A\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 30 09:42:37 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2018\181206A\V04181206A01.D
Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	5.875	96	124020	20.000 ug/L	0.00
Standard Area 1 = 131170			Recovery = 94.55%		
59) Chlorobenzene-d5	9.388	117	91561	20.000 ug/L	0.00
Standard Area 1 = 100348			Recovery = 91.24%		
79) 1,4-Dichlorobenzene-d4	12.120	152	39179	20.000 ug/L	0.00
Standard Area 1 = 50893			Recovery = 76.98%		
System Monitoring Compounds					
36) Dibromofluoromethane	5.084	113	36515	23.127 ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 115.64%		
43) 1,2-Dichloroethane-d4	5.603	65	40697	22.732 ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 113.66%		
60) Toluene-d8	7.548	98	132614	21.839 ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 109.19%		
83) 4-Bromofluorobenzene	10.903	95	46866	24.804 ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 124.02%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.	
3) Chloromethane	1.796	50	164	N.D.	
4) Vinyl chloride	0.000		0	N.D.	
5) Bromomethane	2.169	94	173	Below Cal #	4
6) Chloroethane	0.000		0	N.D. d	
7) Trichlorofluoromethane	0.000		0	N.D.	
10) 1,1-Dichloroethene	0.000		0	N.D.	
11) Carbon disulfide	2.897	76	5403	1.582 ug/L #	86
12) Freon-113	0.000		0	N.D.	
15) Methylene chloride	3.416	84	466	0.251 ug/L #	67
17) Acetone	3.474	43	32295	58.811 ug/L #	84
18) trans-1,2-Dichloroethene	0.000		0	N.D.	
19) Methyl acetate	0.000		0	N.D. d	
20) Methyl tert-butyl ether	0.000		0	N.D.	
23) 1,1-Dichloroethane	0.000		0	N.D.	
28) cis-1,2-Dichloroethene	0.000		0	N.D.	
30) Bromochloromethane	0.000		0	N.D.	
31) Cyclohexane	4.822	56	1210	0.308 ug/L #	29
32) Chloroform	4.905	83	47	N.D.	
34) Carbon tetrachloride	0.000		0	N.D.	

Data Path : I:\VOLATILES\VOA104\2018\181206A\
Data File : V04181206A24.D
Acq On : 6 Dec 2018 4:59 pm
Operator : VOA104:MKS
Sample : l1849060-06,31,4.35,5,,y
Misc : WG1186463,ICAL15180
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 06 18:17:39 2018
Quant Method : I:\VOLATILES\VOA104\2018\181206A\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 30 09:42:37 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2018\181206A\V04181206A01.D
Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) 1,1,1-Trichloroethane	0.000		0	N.D.			
39) 2-Butanone	5.215	43	14054	15.023	ug/L	#	69
41) Benzene	5.466	78	779	0.120	ug/L	#	26
44) 1,2-Dichloroethane	0.000		0	N.D.			
47) Methyl cyclohexane	6.022	83	548	0.223	ug/L	#	1
48) Trichloroethene	0.000		0	N.D.			
51) 1,2-Dichloropropane	0.000		0	N.D.			
54) Bromodichloromethane	0.000		0	N.D.			
57) 1,4-Dioxane	0.000		0	N.D.			
58) cis-1,3-Dichloropropene	0.000		0	N.D.			
61) Toluene	7.606	92	10395	2.544	ug/L		98
62) 4-Methyl-2-pentanone	8.072	58	56	N.D.			
63) Tetrachloroethene	0.000		0	N.D.			
65) trans-1,3-Dichloropropene	0.000		0	N.D.			
68) 1,1,2-Trichloroethane	0.000		0	N.D.			
69) Chlorodibromomethane	0.000		0	N.D.			
71) 1,2-Dibromoethane	0.000		0	N.D.			
72) 2-Hexanone	0.000		0	N.D. d			
73) Chlorobenzene	0.000		0	N.D.			
74) Ethylbenzene	9.456	91	1302	0.167	ug/L	#	58
76) p/m Xylene	9.650	106	725	0.247	ug/L	#	42
77) o Xylene	10.201	106	512	0.177	ug/L	#	68
78) Styrene	0.000		0	N.D.			
80) Bromoform	0.000		0	N.D.			
82) Isopropylbenzene	10.584	105	227	N.D.			
87) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.			
100) 1,3-Dichlorobenzene	0.000		0	N.D.			
101) 1,4-Dichlorobenzene	0.000		0	N.D.			
104) 1,2-Dichlorobenzene	0.000		0	N.D.			
106) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.			
109) 1,2,4-Trichlorobenzene	0.000		0	N.D.			
111) 1,2,3-Trichlorobenzene	0.000		0	N.D.			

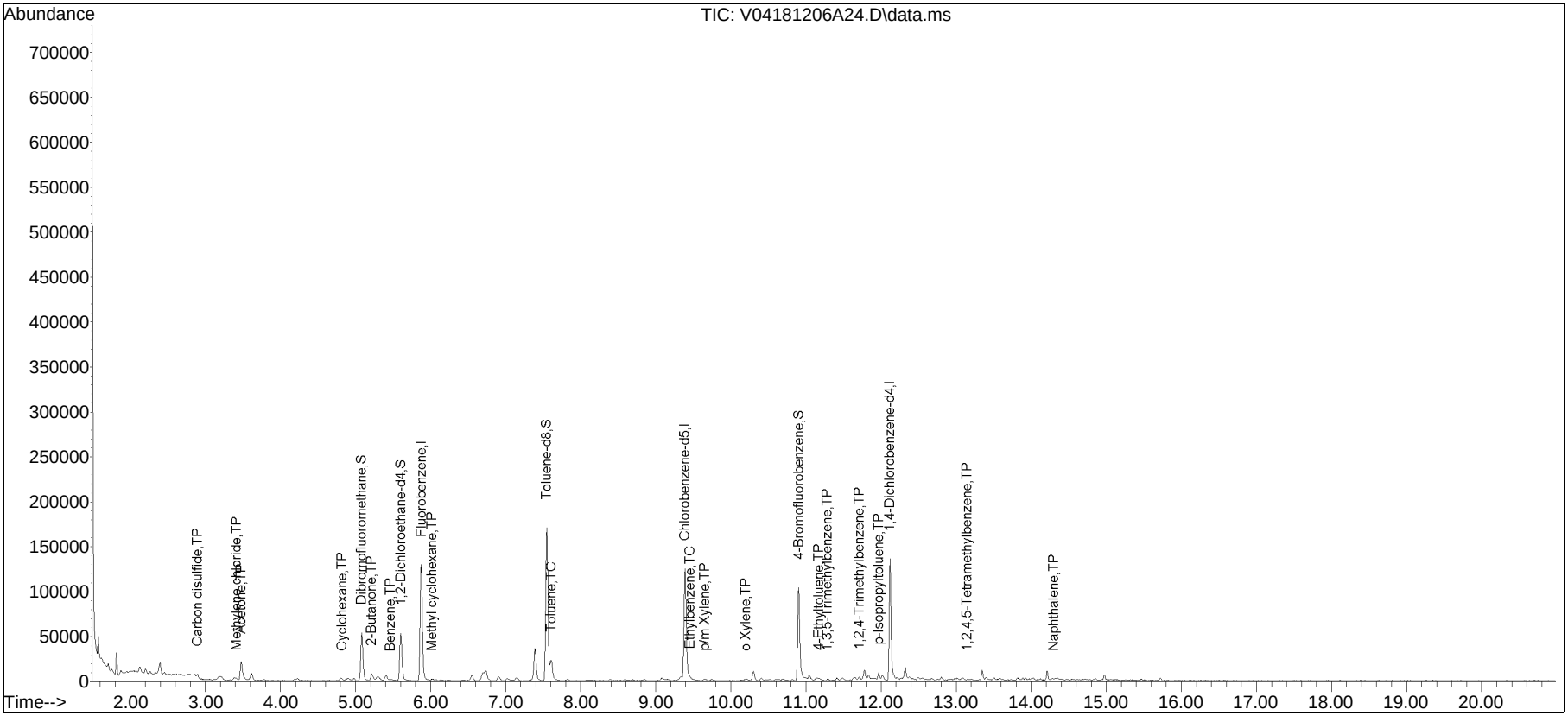
(#) = qualifier out of range (m) = manual integration (+) = signals summed

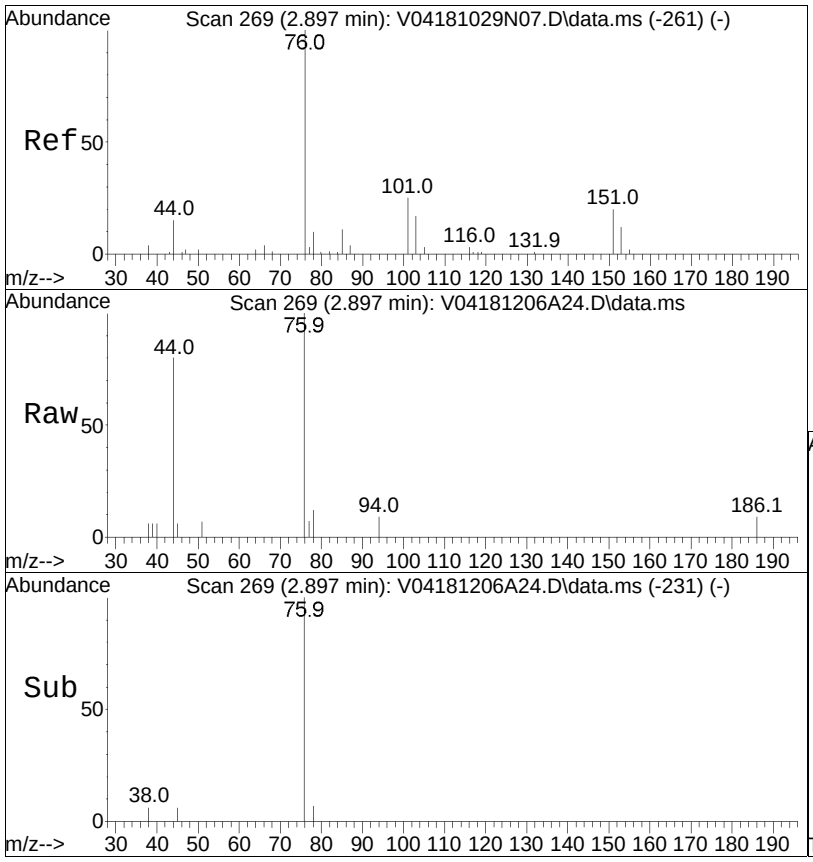
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2018\181206A\
Data File : V04181206A24.D
Acq On : 6 Dec 2018 4:59 pm
Operator : VOA104:MKS
Sample : l1849060-06,31,4.35,5,,y
Misc : WG1186463,ICAL15180
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 06 18:17:39 2018
Quant Method : I:\VOLATILES\VOA104\2018\181206A\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 30 09:42:37 2018
Response via : Initial Calibration

Sub List : 8260-CurveSoil - Megamix plus Diox6A\V04181206A01.D•

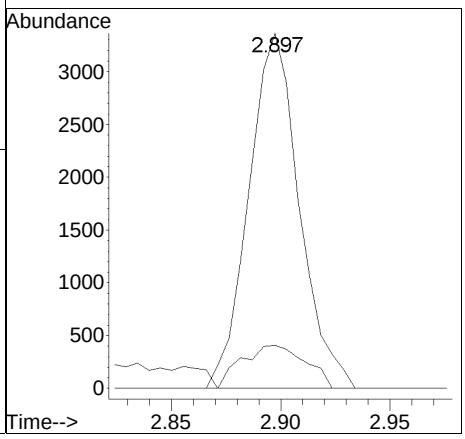


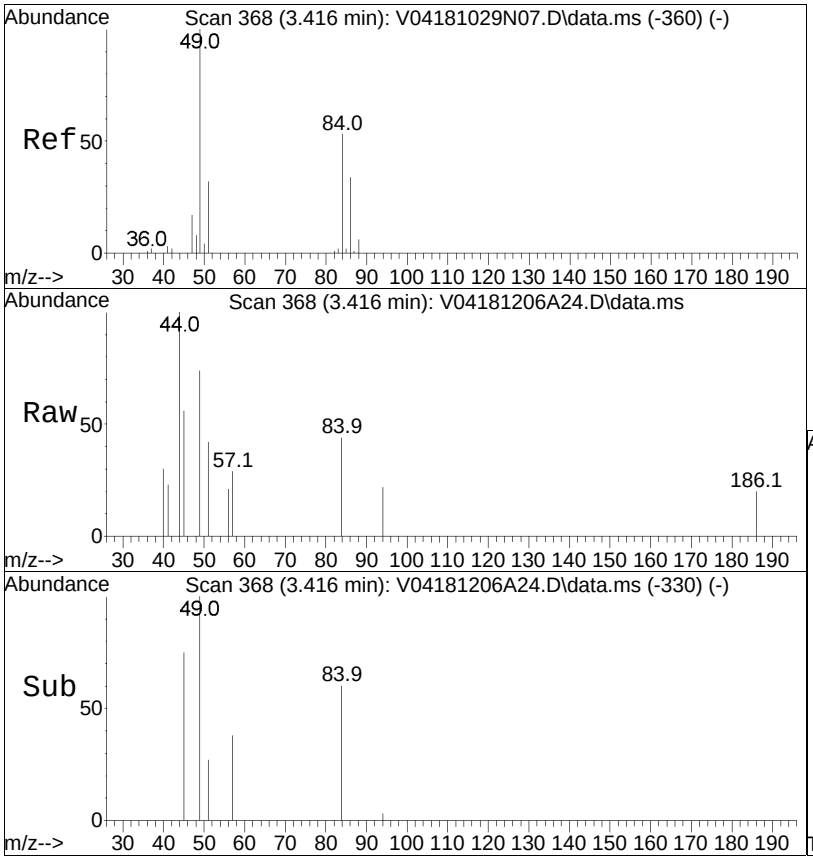


#11
Carbon disulfide
Concen: 1.58 ug/L
RT: 2.897 min Scan# 269
Delta R.T. 0.000 min
Lab File: V04181206A24.D
Acq: 6 Dec 2018 4:59 pm

Tgt Ion: 76 Resp: 5403

Ion	Ratio	Lower	Upper
76	100		
78	15.4	6.6	13.8#

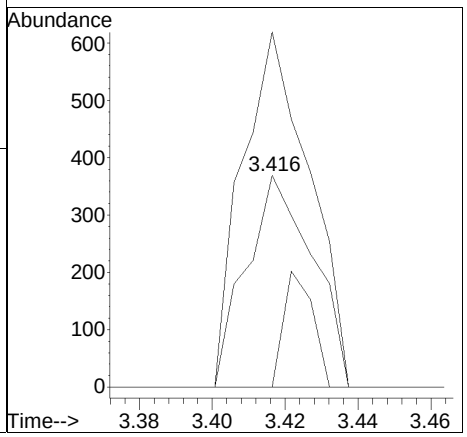


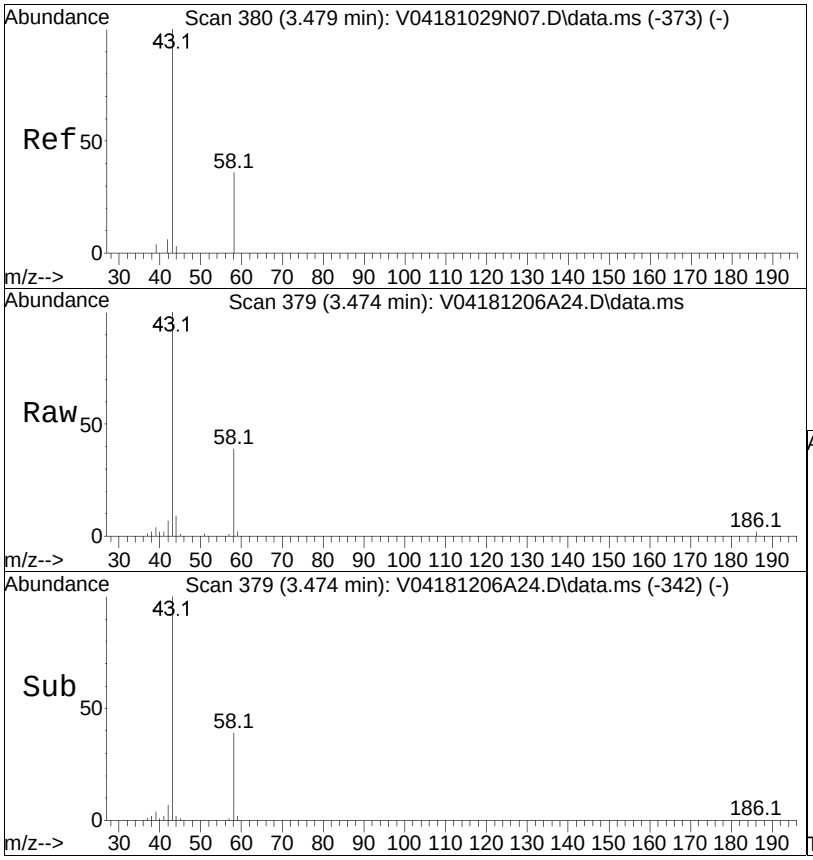


#15
Methylene chloride
Concen: 0.25 ug/L
RT: 3.416 min Scan# 368
Delta R.T. 0.000 min
Lab File: V04181206A24.D
Acq: 6 Dec 2018 4:59 pm

Tgt Ion: 84 Resp: 466

Ion	Ratio	Lower	Upper
84	100		
86	24.0	41.3	85.9#
49	169.7	91.0	189.0

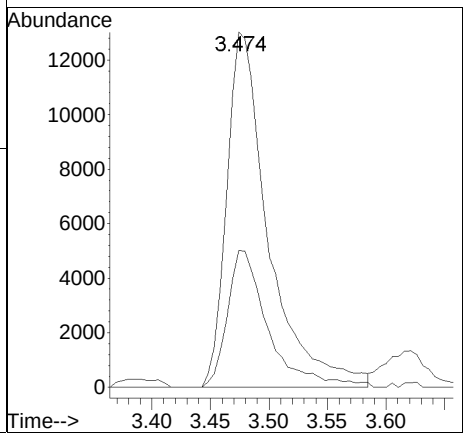


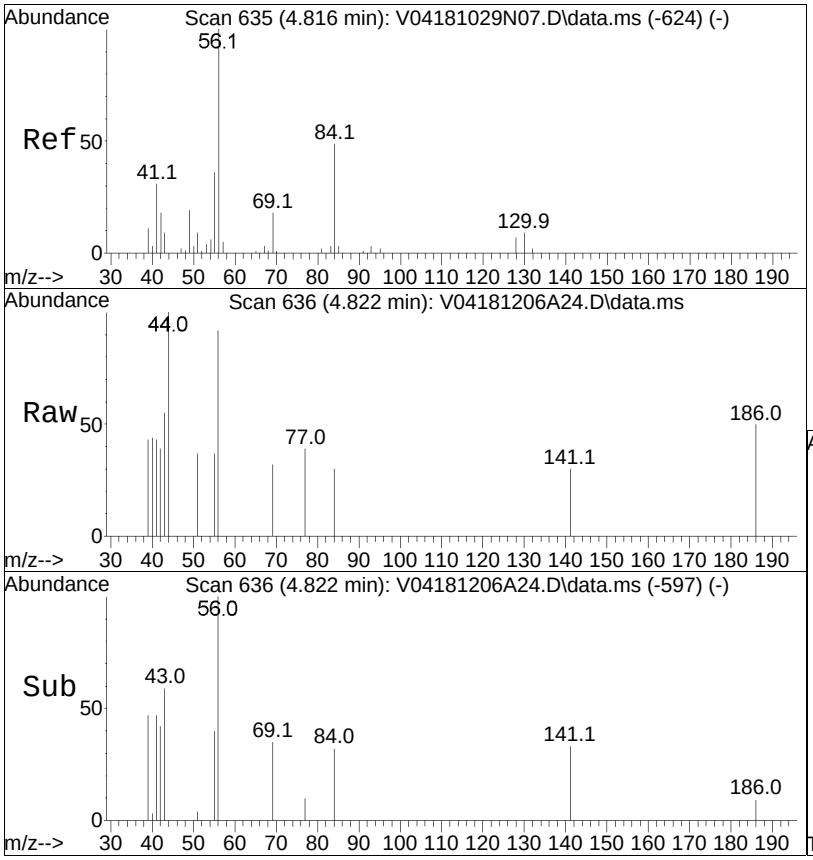


#17
Acetone
Concen: 58.81 ug/L
RT: 3.474 min Scan# 379
Delta R.T. -0.005 min
Lab File: V04181206A24.D
Acq: 6 Dec 2018 4:59 pm

Tgt Ion: 43 Resp: 32295

Ion	Ratio	Lower	Upper
43	100		
58	37.8	23.2	34.8#

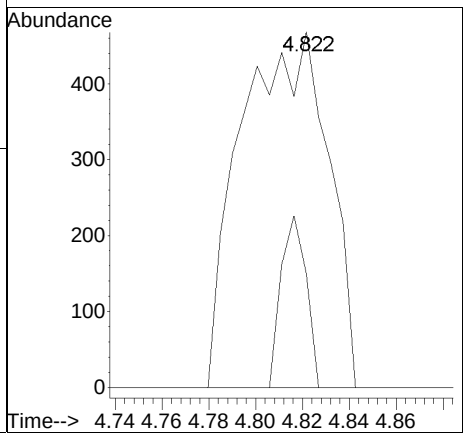


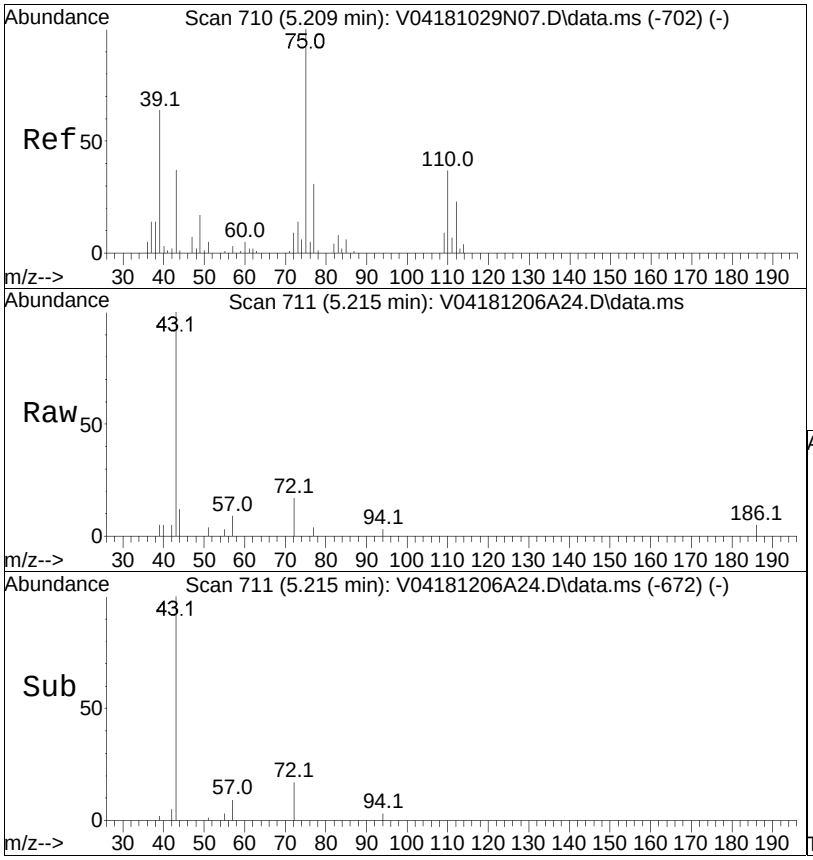


#31
Cyclohexane
Concen: 0.31 ug/L
RT: 4.822 min Scan# 636
Delta R.T. 0.006 min
Lab File: V04181206A24.D
Acq: 6 Dec 2018 4:59 pm

Tgt Ion: 56 Resp: 1210

Ion	Ratio	Lower	Upper
56	100		
84	14.0	48.2	100.2#

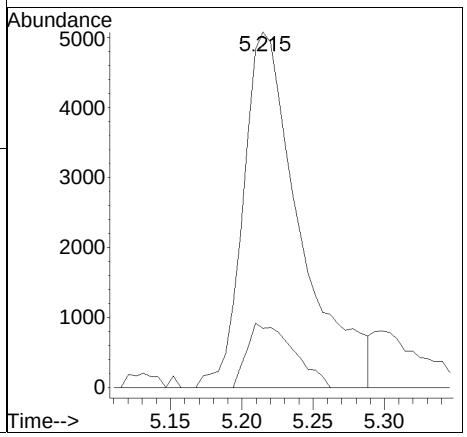


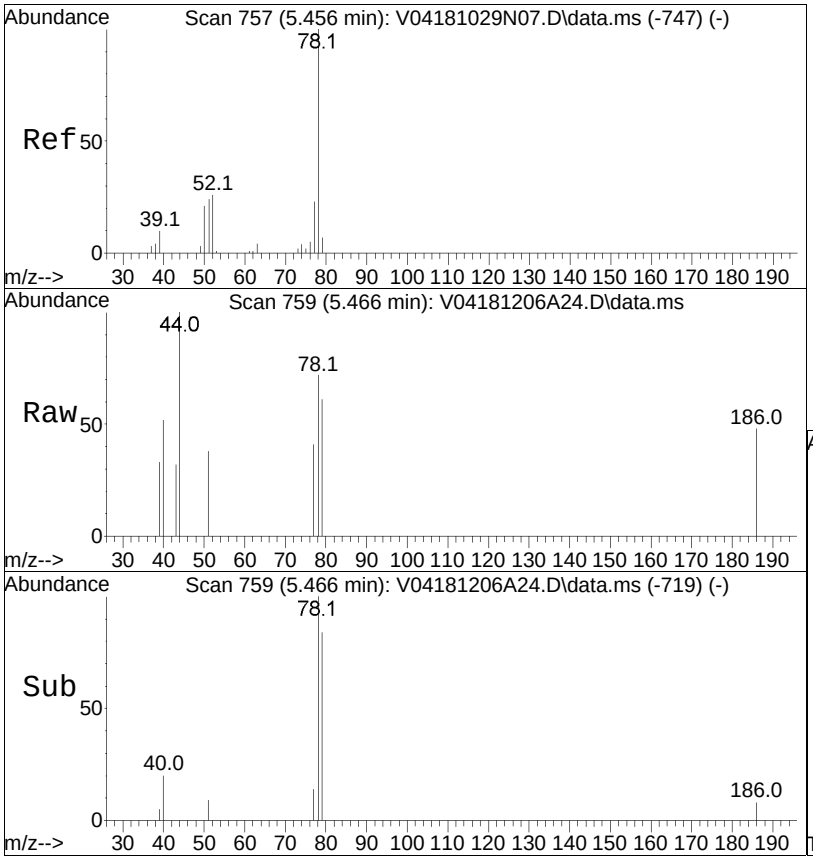


#39
2-Butanone
Concen: 15.02 ug/L
RT: 5.215 min Scan# 711
Delta R.T. 0.006 min
Lab File: V04181206A24.D
Acq: 6 Dec 2018 4:59 pm

Tgt Ion: 43 Resp: 14054

Ion	Ratio	Lower	Upper
43	100		
72	14.7	25.8	38.8#

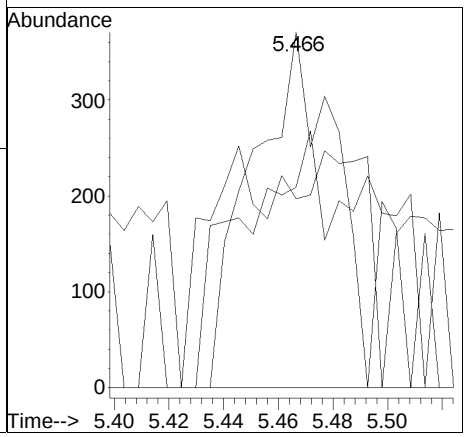


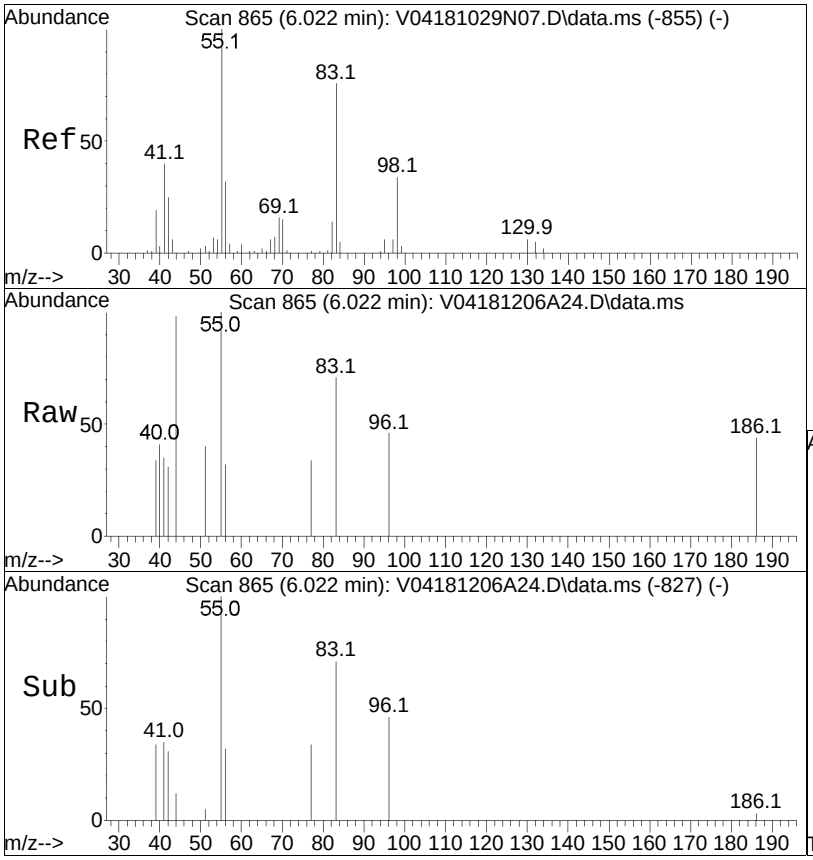


#41
Benzene
Concen: 0.12 ug/L
RT: 5.466 min Scan# 759
Delta R.T. 0.010 min
Lab File: V04181206A24.D
Acq: 6 Dec 2018 4:59 pm

Tgt Ion: 78 Resp: 779

Ion	Ratio	Lower	Upper
78	100		
77	84.7	15.1	31.3#
51	0.0	12.2	25.4#
52	0.0	11.9	24.7#

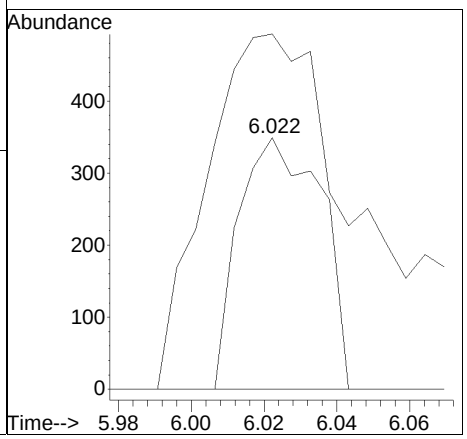


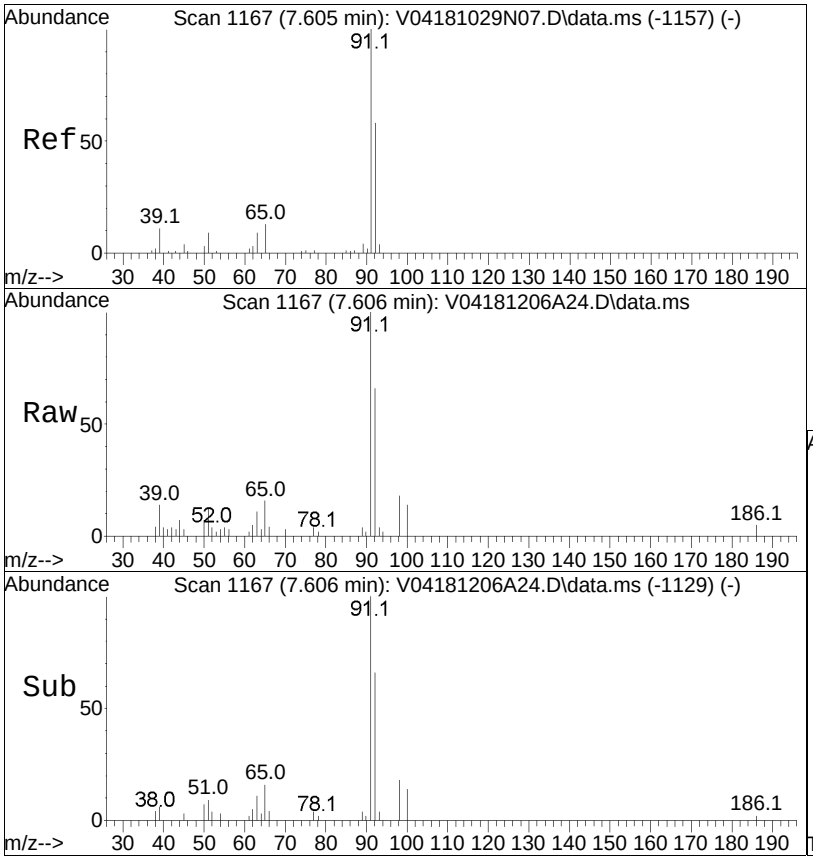


#47
Methyl cyclohexane
Concen: 0.22 ug/L
RT: 6.022 min Scan# 865
Delta R.T. 0.000 min
Lab File: V04181206A24.D
Acq: 6 Dec 2018 4:59 pm

Tgt Ion: 83 Resp: 548

Ion	Ratio	Lower	Upper
83	100		
55	260.9	73.0	109.4#

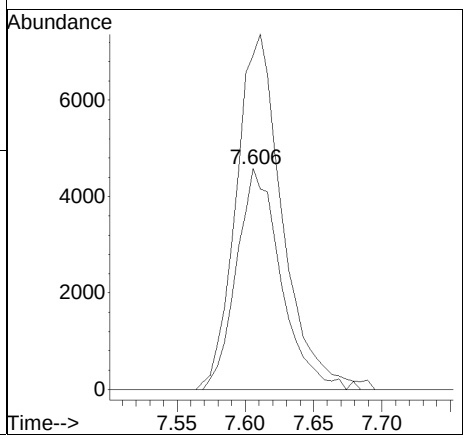


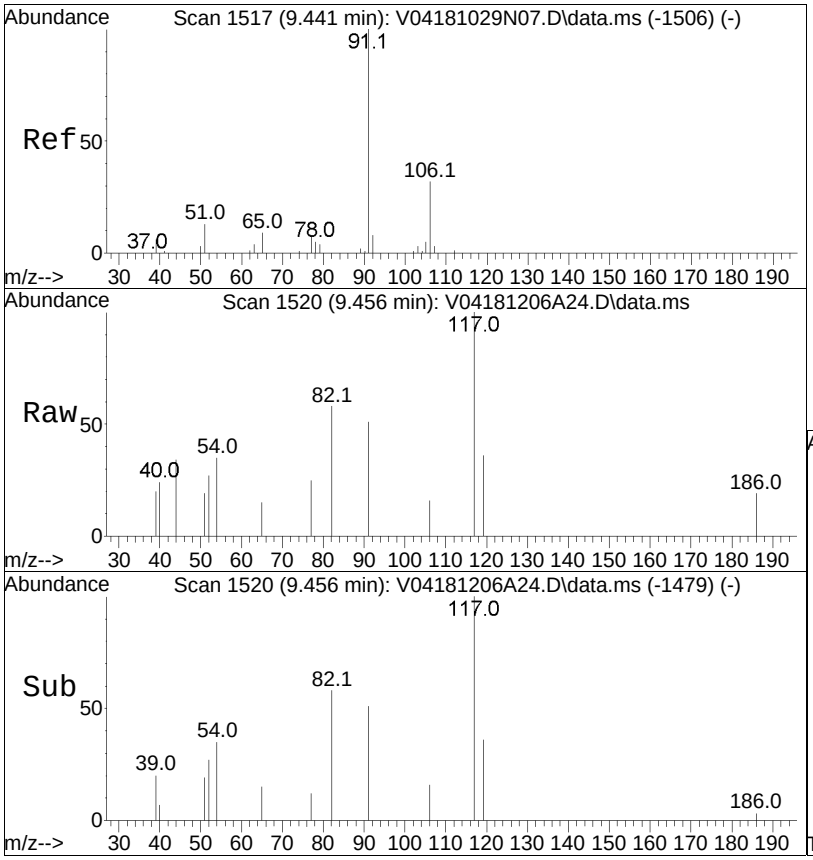


#61
Toluene
Concen: 2.54 ug/L
RT: 7.606 min Scan# 1167
Delta R.T. 0.001 min
Lab File: V04181206A24.D
Acq: 6 Dec 2018 4:59 pm

Tgt Ion: 92 Resp: 10395

Ion	Ratio	Lower	Upper
92	100		
91	167.1	135.8	203.6

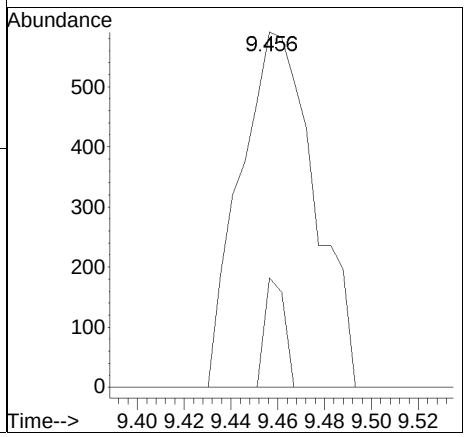


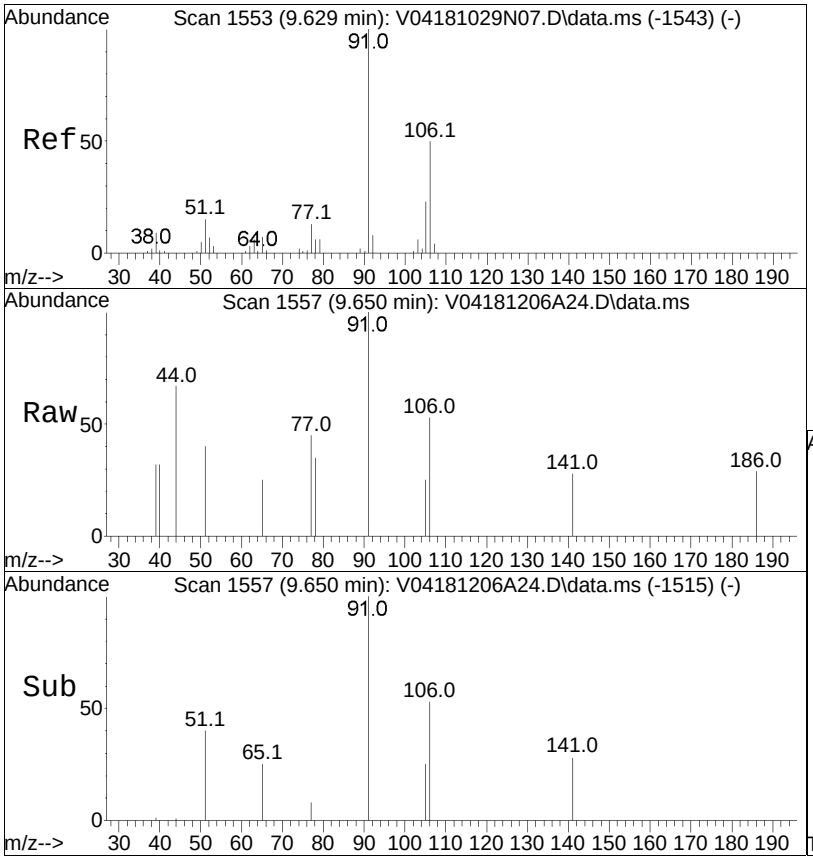


#74
Ethylbenzene
Concen: 0.17 ug/L
RT: 9.456 min Scan# 1520
Delta R.T. 0.015 min
Lab File: V04181206A24.D
Acq: 6 Dec 2018 4:59 pm

Tgt Ion: 91 Resp: 1302

Ion	Ratio	Lower	Upper
91	100		
106	8.2	25.4	38.2#

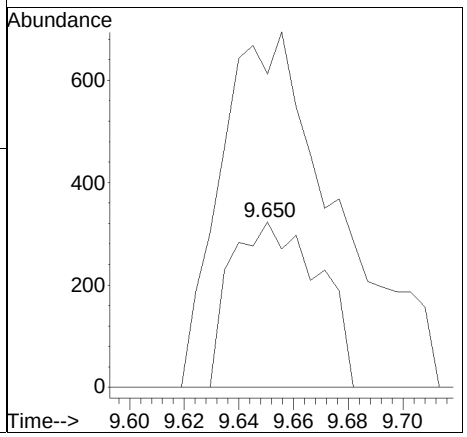


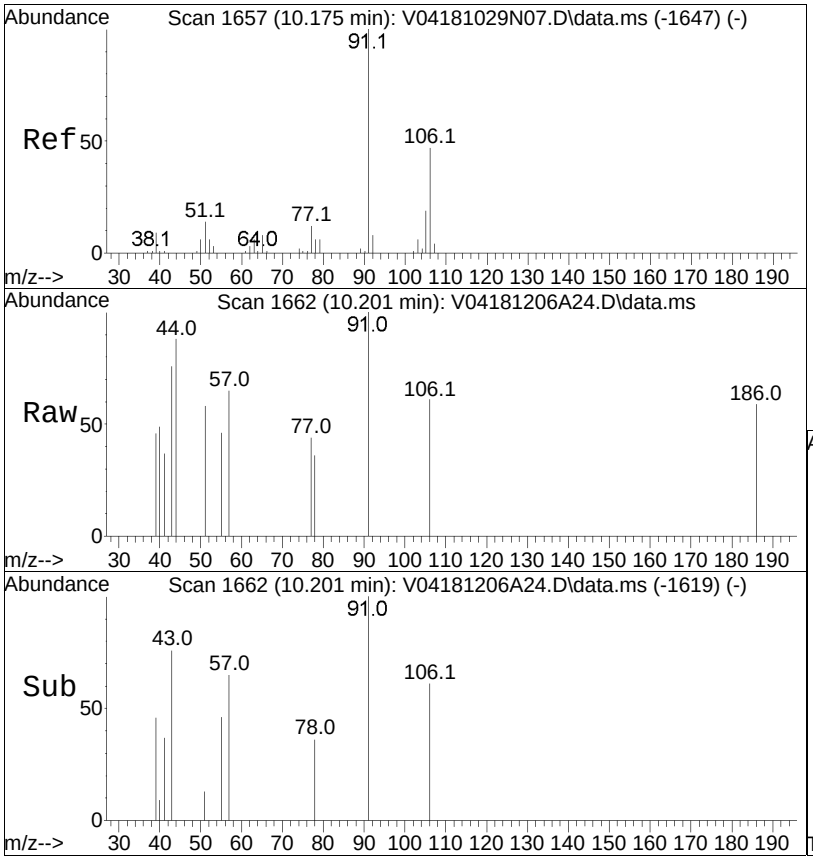


#76
p/m Xylene
Concen: 0.25 ug/L
RT: 9.650 min Scan# 1557
Delta R.T. 0.021 min
Lab File: V04181206A24.D
Acq: 6 Dec 2018 4:59 pm

Tgt Ion:106 Resp: 725

Ion	Ratio	Lower	Upper
106	100		
91	282.6	157.1	235.7#

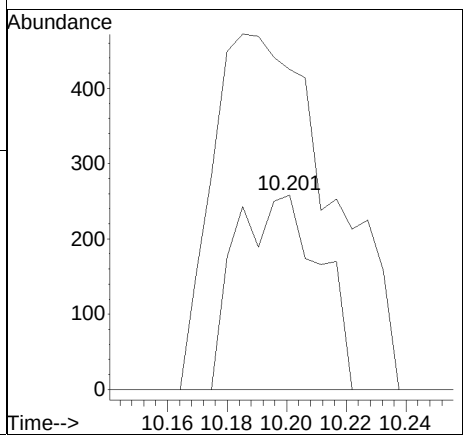




#77
o Xylene
Concen: 0.18 ug/L
RT: 10.201 min Scan# 1662
Delta R.T. 0.026 min
Lab File: V04181206A24.D
Acq: 6 Dec 2018 4:59 pm

Tgt Ion:106 Resp: 512

Ion	Ratio	Lower	Upper
106	100		
91	257.6	165.9	248.9#



Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2018\181206N\
Data File : V11181206N07.D
Acq On : 06 Dec 2018 05:13 pm
Operator : VOA111:MV
Sample : l1849060-03,31,4.93,5,,z
Misc : WG1186672,ICAL15260
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 07 05:39:33 2018
Quant Method : I:\VOLATILES\VOA111\2018\181206N\V111_181115N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 19 17:40:28 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2018\181206N\V11181206N01.D
Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.549	96	57312	20.000	ug/L	0.00
Standard Area 1 = 82887			Recovery = 69.14%			
59) Chlorobenzene-d5	9.014	117	42141	20.000	ug/L	0.00
Standard Area 1 = 66465			Recovery = 63.40%			
79) 1,4-Dichlorobenzene-d4	11.830	152	17774	20.000	ug/L	0.00
Standard Area 1 = 34331			Recovery = 51.77%			
System Monitoring Compounds						
36) Dibromofluoromethane	4.773	113	16076	20.982	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 104.91%			
43) 1,2-Dichloroethane-d4	5.276	65	19426	20.558	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 102.79%			
60) Toluene-d8	7.205	98	55179	21.903	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 109.51%			
83) 4-Bromofluorobenzene	10.566	95	18589	22.538	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 112.69%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D.	d	
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	0.000		0	N.D.		
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	0.000		0	N.D.	d	
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	3.173	84	255	0.358	ug/L #	66
17) Acetone	3.210	43	10348	50.626	ug/L	99
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	0.000		0	N.D.	d	
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
31) Cyclohexane	0.000		0	N.D.		
32) Chloroform	0.000		0	N.D.		
34) Carbon tetrachloride	0.000		0	N.D.		

Data Path : I:\VOLATILES\VOA111\2018\181206N\
Data File : V11181206N07.D
Acq On : 06 Dec 2018 05:13 pm
Operator : VOA111:MV
Sample : l1849060-03,31,4.93,5,,z
Misc : WG1186672,ICAL15260
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 07 05:39:33 2018
Quant Method : I:\VOLATILES\VOA111\2018\181206N\V111_181115N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 19 17:40:28 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2018\181206N\V11181206N01.D
Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	0.000		0	N.D.		
39) 2-Butanone	4.883	43	3857	11.325	ug/L #	71
41) Benzene	5.145	78	226	N.D.		
44) 1,2-Dichloroethane	0.000		0	N.D.		
47) Methyl cyclohexane	0.000		0	N.D.		
48) Trichloroethene	0.000		0	N.D.		
51) 1,2-Dichloropropane	0.000		0	N.D.		
54) Bromodichloromethane	0.000		0	N.D.		
57) 1,4-Dioxane	0.000		0	N.D.		
58) cis-1,3-Dichloropropene	0.000		0	N.D.		
61) Toluene	7.263	92	3169	1.977	ug/L	94
62) 4-Methyl-2-pentanone	0.000		0	N.D.		
63) Tetrachloroethene	0.000		0	N.D.		
65) trans-1,3-Dichloropropene	0.000		0	N.D.		
68) 1,1,2-Trichloroethane	0.000		0	N.D.		
69) Chlorodibromomethane	0.000		0	N.D.		
71) 1,2-Dibromoethane	0.000		0	N.D.		
72) 2-Hexanone	0.000		0	N.D.	d	
73) Chlorobenzene	0.000		0	N.D.		
74) Ethylbenzene	0.000		0	N.D.	d	
76) p/m Xylene	9.282	106	526	0.421	ug/L	91
77) o Xylene	9.822	106	157	0.126	ug/L #	66
78) Styrene	0.000		0	N.D.		
80) Bromoform	0.000		0	N.D.		
82) Isopropylbenzene	10.231	105	50	N.D.		
87) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
100) 1,3-Dichlorobenzene	0.000		0	N.D.		
101) 1,4-Dichlorobenzene	0.000		0	N.D.		
104) 1,2-Dichlorobenzene	0.000		0	N.D.		
106) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
109) 1,2,4-Trichlorobenzene	0.000		0	N.D.		
111) 1,2,3-Trichlorobenzene	0.000		0	N.D.		

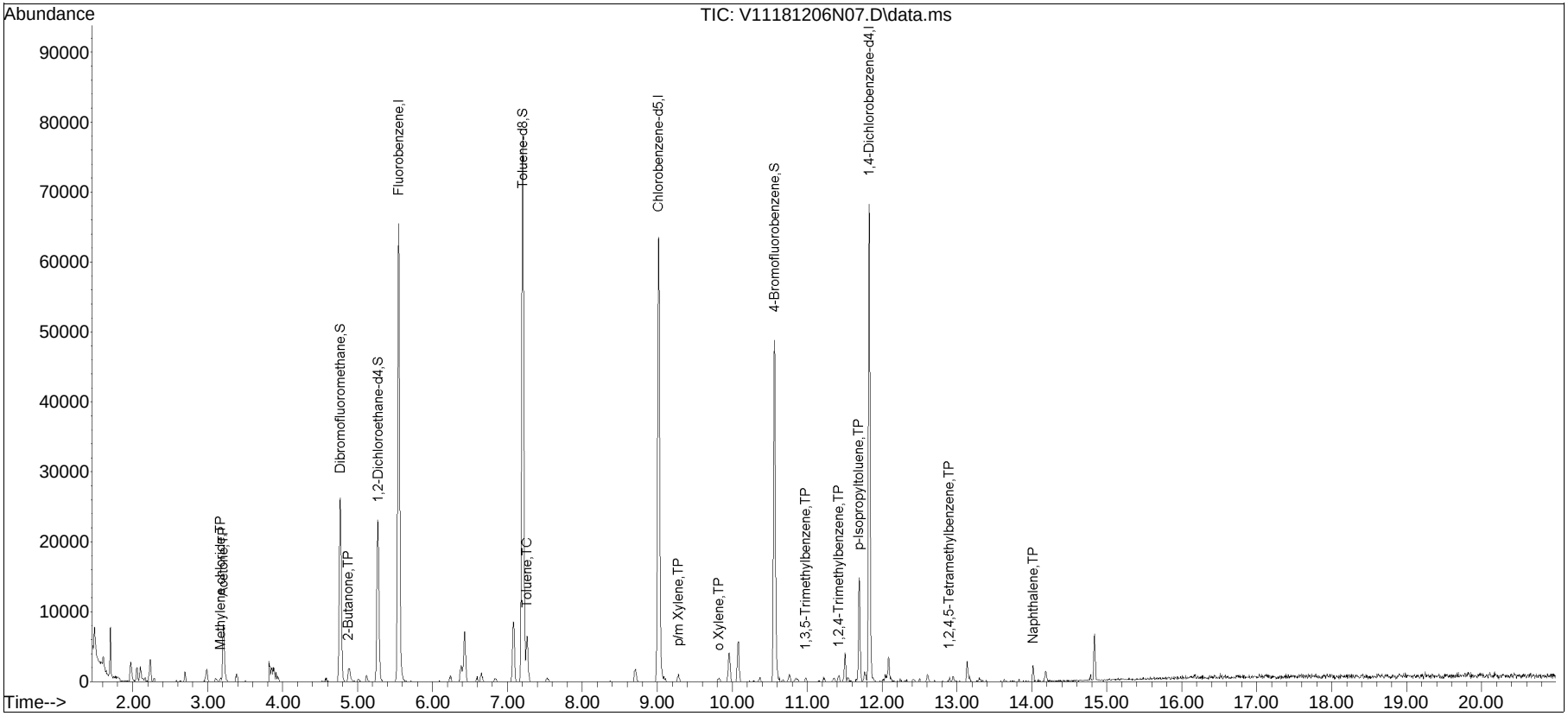
(#) = qualifier out of range (m) = manual integration (+) = signals summed

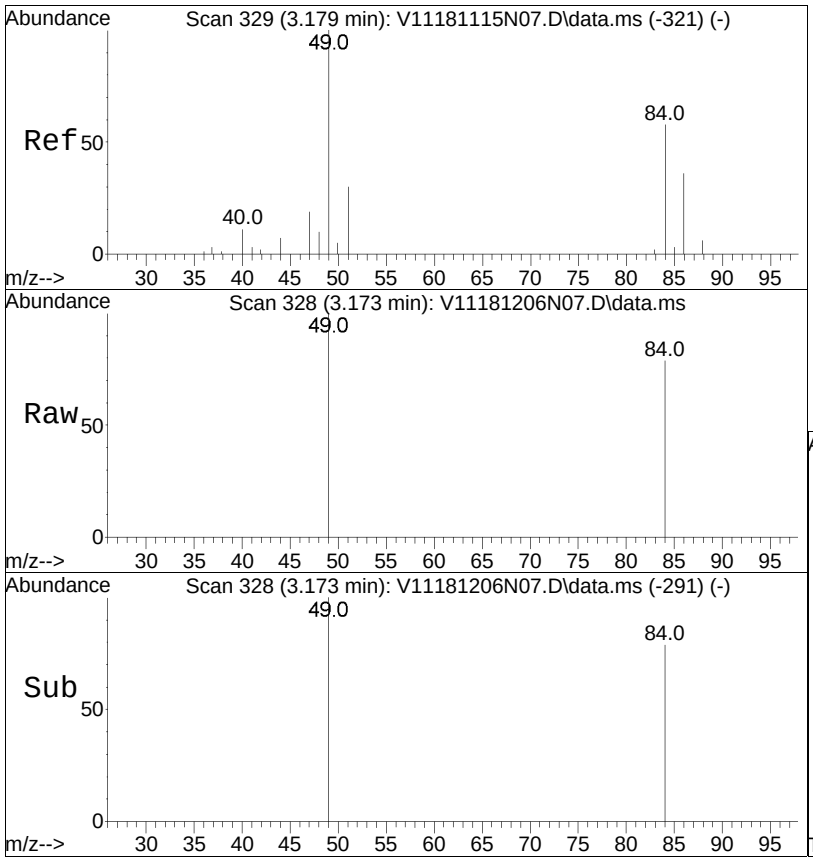
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2018\181206N\
Data File : V11181206N07.D
Acq On : 06 Dec 2018 05:13 pm
Operator : VOA111:MV
Sample : l1849060-03,31,4.93,5,,z
Misc : WG1186672,ICAL15260
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 07 05:39:33 2018
Quant Method : I:\VOLATILES\VOA111\2018\181206N\V111_181115N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 19 17:40:28 2018
Response via : Initial Calibration

Sub List : 8260-CurveSoil - Megamix plus Diox6N\V11181206N01.D•

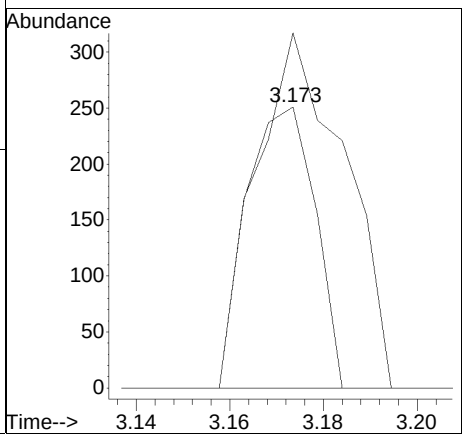


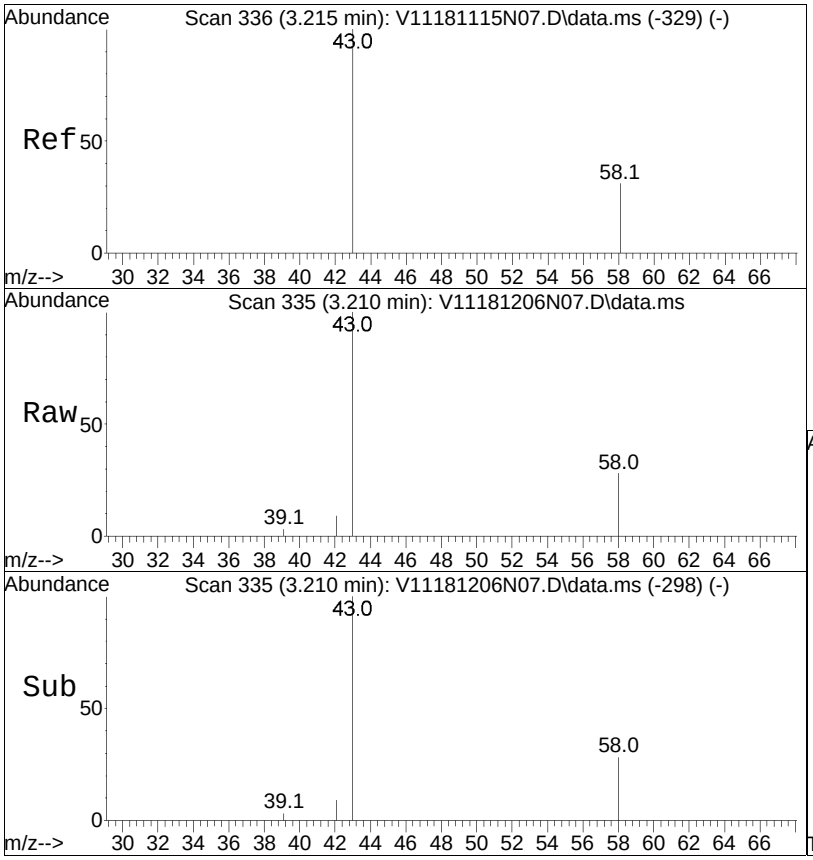


#15
Methylene chloride
Concen: 0.36 ug/L
RT: 3.173 min Scan# 328
Delta R.T. -0.006 min
Lab File: V11181206N07.D
Acq: 06 Dec 2018 05:13 pm

Tgt Ion: 84 Resp: 255

Ion	Ratio	Lower	Upper
84	100		
86	0.0	41.1	85.3#
49	163.1	124.2	258.0

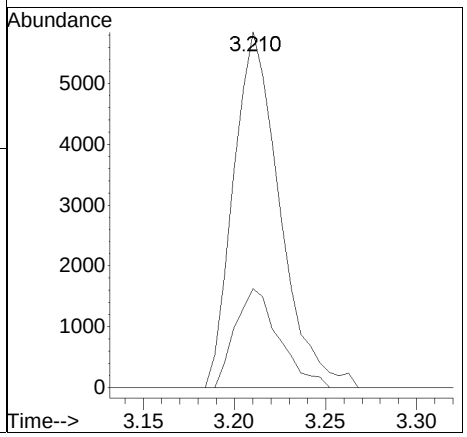


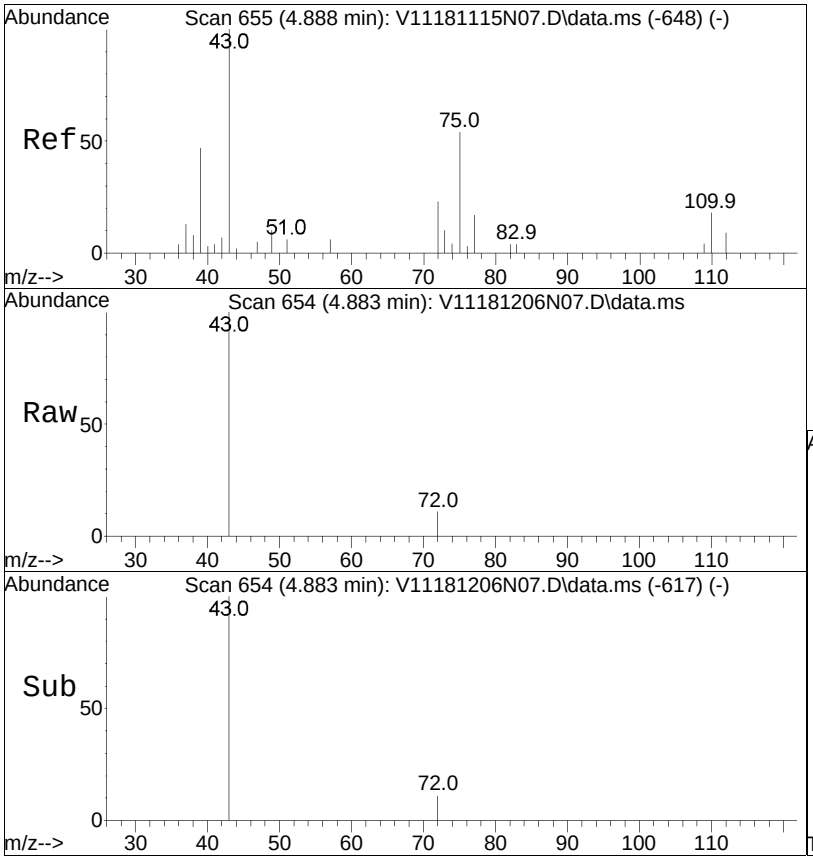


#17
Acetone
Concen: 50.63 ug/L
RT: 3.210 min Scan# 335
Delta R.T. -0.005 min
Lab File: V11181206N07.D
Acq: 06 Dec 2018 05:13 pm

Tgt Ion: 43 Resp: 10348

Ion	Ratio	Lower	Upper
43	100		
58	26.3	20.8	31.2

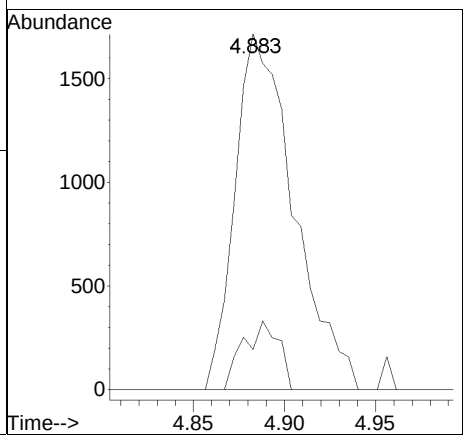


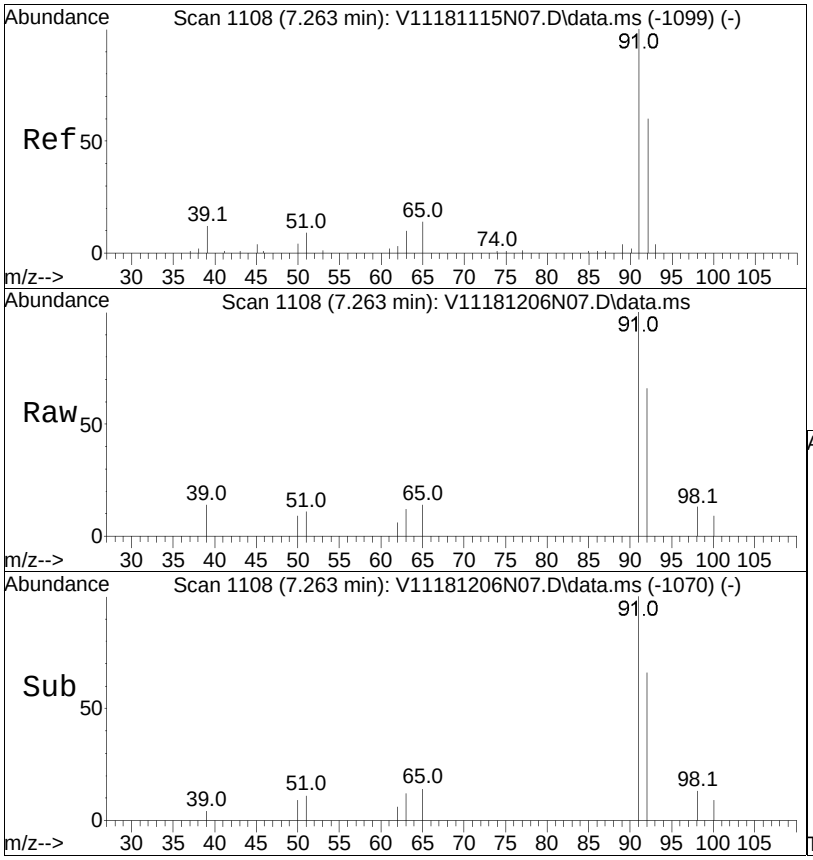


#39
2-Butanone
Concen: 11.32 ug/L
RT: 4.883 min Scan# 654
Delta R.T. -0.005 min
Lab File: V11181206N07.D
Acq: 06 Dec 2018 05:13 pm

Tgt Ion: 43 Resp: 3857

Ion	Ratio	Lower	Upper
43	100		
72	11.6	21.0	31.6#

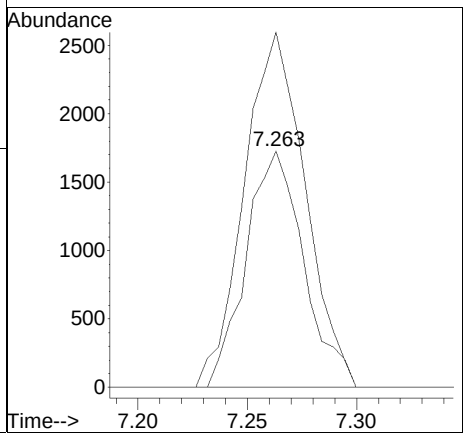


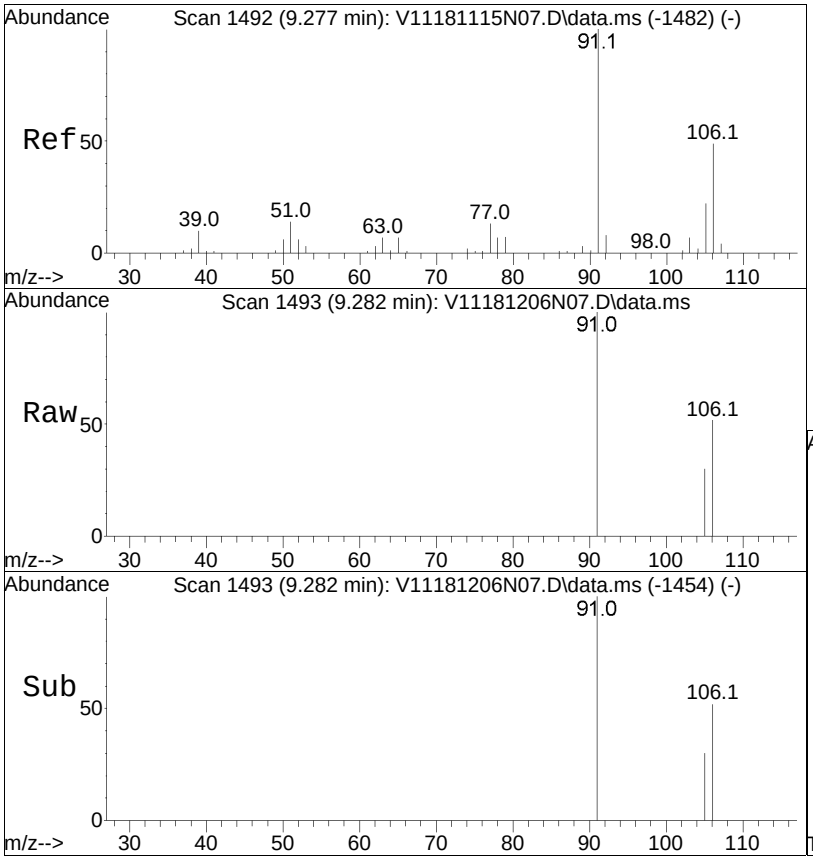


#61
Toluene
Concen: 1.98 ug/L
RT: 7.263 min Scan# 1108
Delta R.T. 0.000 min
Lab File: V11181206N07.D
Acq: 06 Dec 2018 05:13 pm

Tgt Ion: 92 Resp: 3169

Ion	Ratio	Lower	Upper
92	100		
91	159.0	133.7	200.5

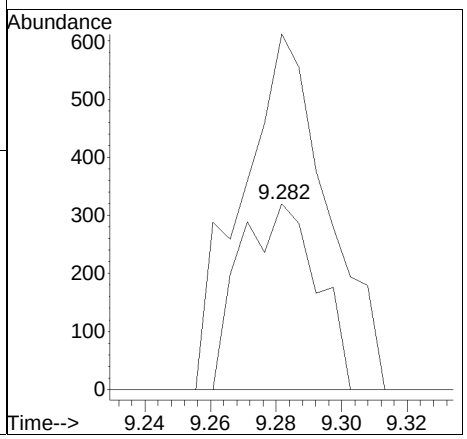


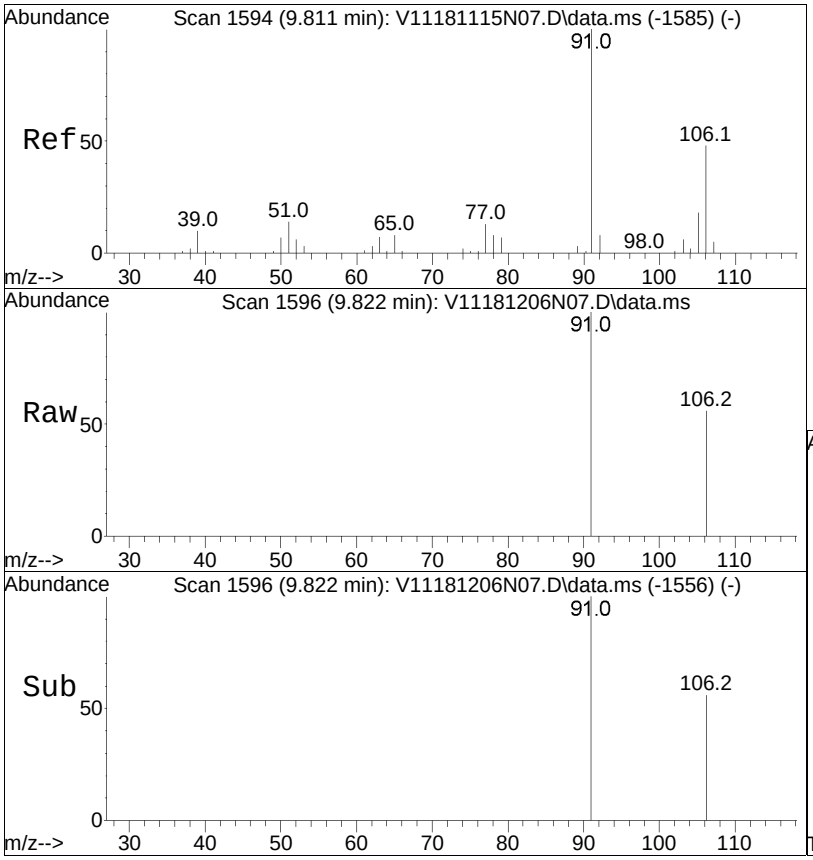


#76
p/m Xylene
Concen: 0.42 ug/L
RT: 9.282 min Scan# 1493
Delta R.T. 0.005 min
Lab File: V11181206N07.D
Acq: 06 Dec 2018 05:13 pm

Tgt Ion:106 Resp: 526

Ion	Ratio	Lower	Upper
106	100		
91	212.9	159.3	238.9

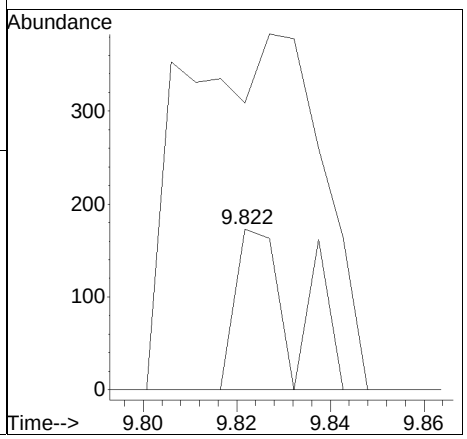




#77
o Xylene
Concen: 0.13 ug/L
RT: 9.822 min Scan# 1596
Delta R.T. 0.011 min
Lab File: V11181206N07.D
Acq: 06 Dec 2018 05:13 pm

Tgt Ion:106 Resp: 157

Ion	Ratio	Lower	Upper
106	100		
91	266.2	170.2	255.2#



Volatiles Standards Data

Initial Calibration

Initial Calibration Summary
Form 6

Client	**: CHA Companies**	**Lab Number**	**: L1849060**
Project Name	**: 700 SMITH BLVD**	**Project Number**	**: 29852.1202.44000**
Instrument ID	**: VOA104**	**Ical Ref**	**: ICAL15180**
Calibration dates	**: 10/29/18 22:59 10/30/18 02:37**		

Calibration Files

L1 =V04181029N04.D L2 =V04181029N06.D L3 =V04181029N07.D L4 =V04181029N08.D L6 =V04181029N09.D

L7 =V04181029N10.D L8 =V04181029N11.D L0 =V04181029N03.D L1.5=V04181029N05.D

		Compound	L1	L2	L3	L4	L6	L7	L8	L0	L1.5	Avg	%RSD
1)	I	Fluorobenzene	----------ISTD----------										
2)	TP	Dichlorodifluoromethane	0.237	0.240	0.250	0.251	0.226	0.223	0.215		0.198	0.230	7.91
3)	TP	Chloromethane	0.536	0.499	0.489	0.465	0.425	0.418	0.432		0.491	0.469	8.91
4)	TC	Vinyl chloride	0.364	0.346	0.364	0.359	0.326	0.325	0.321		0.328	0.342	5.53
5)	TP	Bromomethane	0.231	0.183	0.166	0.151	0.138	0.133	0.135		0.195	*L	0.9981
6)	TP	Chloroethane	0.169	0.158	0.154	0.150	0.126				0.166	0.154	9.94
7)	TP	Trichlorofluoromethane	0.277	0.269	0.280	0.283	0.250	0.230	0.213		0.226	0.254	10.93
8)	TP	Ethyl ether	0.088	0.089	0.098	0.097	0.093	0.090	0.087		0.098	0.092	4.98
10)	TC	1,1-Dichloroethene	0.150	0.166	0.170	0.174	0.160	0.157	0.160		0.154	0.162	5.06
11)	TP	Carbon disulfide	0.681	0.560	0.552	0.532	0.498	0.466	0.581		0.537	0.551	11.57
12)	TP	Freon-113	0.180	0.191	0.193	0.190	0.174	0.158	0.190		0.132	0.176	12.20
13)	TP	Iodomethane		0.038	0.110	0.176	0.239	0.260	0.250			*L	0.9921
14)	TP	Acrolein		0.044	0.053	0.054	0.051	0.052	0.049			0.050	7.06
15)	TP	Methylene chloride		0.318	0.304	0.298	0.276	0.272	0.262		0.369	0.300	12.17
17)	TP	Acetone		0.108	0.090	0.091	0.079	0.072	0.078		0.101	0.089#	14.60
18)	TP	trans-1,2-Dichloroethene	0.258	0.258	0.284	0.281	0.262	0.260	0.249		0.245	0.262	5.40
19)	TP	Methyl acetate	0.258	0.250	0.259	0.256	0.240	0.234	0.232		0.254	0.248	4.40
20)	TP	Methyl tert-butyl ether	0.665	0.678	0.738	0.736	0.692	0.678	0.657		0.676	0.690	4.45
21)	TP	tert-Butyl alcohol	0.038	0.046	0.046	0.044	0.041	0.041	0.039		0.040	0.042#	7.42
22)	TP	Diisopropyl ether	1.212	1.251	1.338	1.320	1.228	1.186	1.140		1.213	1.236	5.34
23)	TP	1,1-Dichloroethane	0.645	0.655	0.703	0.688	0.645	0.635	0.608		0.647	0.653	4.57
24)	TP	Halothane	0.176	0.198	0.216	0.215	0.198	0.198	0.188		0.188	0.197	6.84
25)	TP	Acrylonitrile		0.109	0.135	0.134	0.127	0.127	0.121		0.089	0.120	13.49
26)	TP	Ethyl tert-butyl ether	1.087	1.172	1.257	1.247	1.165	1.141	1.097		1.173	1.167	5.27
27)	TP	Vinyl acetate	0.477	0.612	0.708	0.668	0.651	0.683	0.588		0.553	0.617	12.38
28)	TP	cis-1,2-Dichloroethene	0.272	0.288	0.319	0.313	0.293	0.291	0.278		0.283	0.292	5.61
29)	TP	2,2-Dichloropropane	0.368	0.373	0.388	0.381	0.353	0.356	0.341		0.365	0.365	4.22
30)	TP	Bromochloromethane	0.146	0.138	0.154	0.148	0.136	0.133	0.127		0.136	0.140	6.18
31)	TP	Cyclohexane	0.673	0.669	0.692	0.694	0.621	0.595	0.564		0.566	0.634	8.61
32)	TC	Chloroform	0.493	0.474	0.501	0.494	0.464	0.458	0.435		0.478	0.475	4.62
33)	TP	Ethyl acetate	0.229	0.298	0.351	0.350	0.325	0.321	0.305		0.272	0.306	13.34
34)	TP	Carbon tetrachloride	0.287	0.331	0.351	0.359	0.335	0.332	0.317		0.295	0.326	7.71
35)	TP	Tetrahydrofuran		0.108	0.110	0.110	0.097	0.095	0.092		0.081	0.099	10.94
36)	S	Dibromofluoromethane	0.252	0.249	0.254	0.260	0.261	0.259	0.261	0.248	0.249	0.255	2.17
37)	TP	1,1,1-Trichloroethane	0.380	0.390	0.414	0.412	0.379	0.377	0.360	0.375	0.364	0.383	4.93
39)	TP	2-Butanone		0.175	0.176	0.158	0.146	0.141	0.139		0.121	0.151	13.31
40)	TP	1,1-Dichloropropene	0.315	0.329	0.355	0.350	0.322	0.318	0.304	0.296	0.309	0.322	6.21
41)	TP	Benzene	1.049	1.053	1.106	1.089	1.014	1.001	0.955	1.081	1.038	1.043	4.55

Initial Calibration Summary
Form 6

Client	**: CHA Companies**	**Lab Number**	**: L1849060**
Project Name	**: 700 SMITH BLVD**	**Project Number**	**: 29852.1202.44000**
Instrument ID	**: VOA104**	**Ical Ref**	**: ICAL15180**
Calibration dates	**: 10/29/18 22:59 10/30/18 02:37**		

Calibration Files

L1 =V04181029N04.D L2 =V04181029N06.D L3 =V04181029N07.D L4 =V04181029N08.D L6 =V04181029N09.D

L7 =V04181029N10.D L8 =V04181029N11.D L0 =V04181029N03.D L1.5=V04181029N05.D

		Compound	L1	L2	L3	L4	L6	L7	L8	L0	L1.5	Avg	%RSD
42)	TP	tert-Amyl methyl ether	0.680	0.706	0.770	0.762	0.718	0.701	0.678		0.693	0.713	4.90
43)	S	1,2-Dichloroethane-d4	0.287	0.286	0.286	0.287	0.287	0.295	0.294	0.289	0.287	0.289	1.21
44)	TP	1,2-Dichloroethane	0.413	0.416	0.445	0.439	0.412	0.402	0.389		0.398	0.414	4.67
47)	TP	Methyl cyclohexane	0.418	0.425	0.431	0.434	0.396	0.376	0.355		0.334	0.396	9.52
48)	TP	Trichloroethene	0.281	0.280	0.303	0.301	0.280	0.273	0.266	0.238	0.273	0.277	6.88
50)	TP	Dibromomethane	0.131	0.155	0.178	0.176	0.166	0.167	0.162		0.144	0.160	9.96
51)	TC	1,2-Dichloropropane	0.390	0.390	0.421	0.417	0.392	0.387	0.374		0.375	0.393	4.41
53)	TP	2-Chloroethyl vinyl ether		0.161	0.212	0.221	0.212	0.215	0.206			0.204	10.64
54)	TP	Bromodichloromethane	0.330	0.349	0.391	0.388	0.371	0.370	0.362	0.282	0.342	0.354	9.54
57)	TP	1,4-Dioxane		0.002	0.003	0.003	0.003	0.003	0.003		0.001	*L	0.9984
58)	TP	cis-1,3-Dichloropropene	0.351	0.391	0.458	0.461	0.435	0.440	0.426	0.295	0.378	0.404	13.69
59)	I	Chlorobenzene-d5	----------ISTD----------										
60)	S	Toluene-d8	1.332	1.331	1.324	1.319	1.323	1.311	1.320	1.340	1.338	1.326	0.72
61)	TC	Toluene	0.884	0.909	0.958	0.931	0.874	0.859	0.819		0.906	0.892	4.85
62)	TP	4-Methyl-2-pentanone		0.178	0.227	0.225	0.211	0.208	0.199		0.143	0.199	14.94
63)	TP	Tetrachloroethene	0.358	0.395	0.413	0.407	0.374	0.367	0.345	0.297	0.361	0.369	9.63
65)	TP	trans-1,3-Dichloropropene	0.336	0.445	0.539	0.538	0.524	0.520	0.509		0.395	*L	0.9995
67)	TP	Ethyl methacrylate		0.383	0.471	0.463	0.441	0.436	0.421			0.436	7.28
68)	TP	1,1,2-Trichloroethane	0.226	0.279	0.304	0.294	0.277	0.272	0.261		0.267	0.273	8.56
69)	TP	Chlorodibromomethane	0.329	0.379	0.431	0.432	0.415	0.414	0.403		0.364	0.396	9.08
70)	TP	1,3-Dichloropropane	0.445	0.508	0.572	0.562	0.531	0.521	0.506		0.499	0.518	7.65
71)	TP	1,2-Dibromoethane		0.306	0.361	0.364	0.343	0.342	0.334		0.277	0.332	9.40
72)	TP	2-Hexanone		0.254	0.332	0.340	0.320	0.316	0.311			0.312	9.71
73)	TP	Chlorobenzene	1.054	1.043	1.108	1.075	1.010	0.989	0.939	0.999	1.048	1.029	4.92
74)	TC	Ethylbenzene	1.701	1.750	1.851	1.794	1.671	1.637	1.544		1.681	1.704	5.60
75)	TP	1,1,1,2-Tetrachloroethane	0.357	0.383	0.408	0.403	0.383	0.375	0.359	0.293	0.355	0.368	9.28
76)	TP	p/m Xylene	0.603	0.671	0.714	0.688	0.639	0.613	0.570		0.630	0.641	7.42
77)	TP	o Xylene	0.630	0.654	0.698	0.669	0.625	0.597	0.559	0.601	0.647	0.631	6.61
78)	TP	Styrene	0.992	1.054	1.157	1.127	1.053	1.005	0.945	0.922	1.024	1.031	7.47
79)	I	1,4-Dichlorobenzene-d4	----------ISTD----------										
80)	TP	Bromoform	0.345	0.466	0.535	0.552	0.531	0.530	0.521		0.426	0.488	14.63
82)	TP	Isopropylbenzene	3.379	3.491	3.549	3.517	3.241	3.177	3.000		3.338	3.337	5.68
83)	S	4-Bromofluorobenzene	0.962	0.951	0.960	0.963	0.971	0.972	0.982	0.957	0.963	0.965	0.94
84)	TP	Bromobenzene	0.777	0.869	0.938	0.933	0.878	0.863	0.836		0.831	0.866	6.15
85)	TP	n-Propylbenzene	3.849	4.080	4.213	4.184	3.866	3.762	3.534		3.976	3.933	5.80
86)	TP	1,4-Dichlorobutane	1.551	1.675	1.790	1.794	1.662	1.623	1.554		1.633	1.660	5.58
87)	TP	1,1,2,2-Tetrachloroethane	0.811	0.842	0.932	0.923	0.856	0.858	0.812	0.642	0.886	0.840	10.20
88)	TP	4-Ethyltoluene	3.194	3.320	3.459	3.466	3.163	3.089	2.908		3.144	3.218	5.90

Initial Calibration Summary
Form 6

Client	**: CHA Companies**	**Lab Number**	**: L1849060**
Project Name	**: 700 SMITH BLVD**	**Project Number**	**: 29852.1202.44000**
Instrument ID	**: VOA104**	**Ical Ref**	**: ICAL15180**
Calibration dates	**: 10/29/18 22:59 10/30/18 02:37**		

Calibration Files

L1 =V04181029N04.D L2 =V04181029N06.D L3 =V04181029N07.D L4 =V04181029N08.D L6 =V04181029N09.D

L7 =V04181029N10.D L8 =V04181029N11.D L0 =V04181029N03.D L1.5=V04181029N05.D

	Compound	L1	L2	L3	L4	L6	L7	L8	L0	L1.5	Avg	%RSD
89) TP	2-Chlorotoluene	2.546	2.436	2.521	2.510	2.342	2.311	2.218		2.379	2.408	4.81
90) TP	1,3,5-Trimethylbenzene	3.020	2.988	3.023	3.019	2.740	2.667	2.507		2.911	2.859	6.90
91) TP	1,2,3-Trichloropropane	0.599	0.660	0.690	0.678	0.631	0.622	0.599		0.643	0.640	5.34
92) TP	trans-1,4-Dichloro-2-b...		0.222	0.313	0.328	0.293	0.297	0.286			0.290	12.54
93) TP	4-Chlorotoluene	2.372	2.407	2.641	2.536	2.374	2.345	2.237		2.408	2.415	5.10
94) TP	tert-Butylbenzene	2.392	2.464	2.497	2.494	2.273	2.206	2.072		2.330	2.341	6.47
97) TP	1,2,4-Trimethylbenzene	2.798	2.896	3.024	3.007	2.785	2.720	2.567		2.832	2.829	5.31
98) TP	sec-Butylbenzene	3.770	3.899	3.852	3.803	3.464	3.308	3.095		3.712	3.613	8.06
99) TP	p-Isopropyltoluene	3.063	3.123	3.206	3.210	2.924	2.820	2.626		3.029	3.000	6.72
100) TP	1,3-Dichlorobenzene	1.526	1.642	1.736	1.722	1.606	1.568	1.489		1.528	1.602	5.73
101) TP	1,4-Dichlorobenzene	1.768	1.770	1.750	1.765	1.649	1.600	1.519		1.725	1.693	5.56
102) TP	p-Diethylbenzene	1.717	1.812	1.874	1.892	1.733	1.663	1.559		1.681	1.741	6.49
103) TP	n-Butylbenzene	2.852	2.955	3.023	2.973	2.723	2.599	2.423		2.780	2.791	7.35
104) TP	1,2-Dichlorobenzene	1.405	1.564	1.663	1.663	1.542	1.508	1.453		1.502	1.537	5.98
105) TP	1,2,4,5-Tetramethylben...	2.672	2.832	3.027	3.041	2.810	2.735	2.595		2.749	2.808	5.64
106) TP	1,2-Dibromo-3-chloropr...		0.106	0.147	0.152	0.143	0.145	0.145		0.089	*L	0.9996
107) TP	1,3,5-Trichlorobenzene	1.005	1.140	1.200	1.200	1.096	1.076	1.019		1.085	1.103	6.66
108) TP	Hexachlorobutadiene	0.493	0.537	0.530	0.527	0.485	0.466	0.439		0.533	0.501	7.25
109) TP	1,2,4-Trichlorobenzene	0.921	1.060	1.150	1.144	1.063	1.034	0.982		0.974	1.041	7.76
110) TP	Naphthalene	2.243	2.623	2.880	2.898	2.699	2.671	2.585		2.397	2.625	8.48
111) TP	1,2,3-Trichlorobenzene	0.894	1.005	1.090	1.085	0.996	0.974	0.939		0.994	0.997	6.67

Initial Calibration Summary
Form 6

Client	**: CHA Companies**	**Lab Number**	**: L1849060**
Project Name	**: 700 SMITH BLVD**	**Project Number**	**: 29852.1202.44000**
Instrument ID	**: VOA111**	**Ical Ref**	**: ICAL15260**
Calibration dates	**: 11/15/18 21:43 11/16/18 01:11**		

Calibration Files

L1 =V11181115N04.D L2 =V11181115N06.D L3 =V11181115N07.D L4 =V11181115N08.D L1.5=V11181115N05.D

L6 =V11181115N09.D L7 =V11181115N10.D L8 =V11181115N11.D L0 =V11181115N03.D

		Compound	L1	L2	L3	L4	L1.5	L6	L7	L8	L0	Avg	%RSD
1)	I	Fluorobenzene	----------ISTD----------										
2)	T	Dichlorodifluoromethane		0.205	0.191	0.187	0.175	0.183	0.173	0.170		0.184	6.67
3)	T	Chloromethane	0.266	0.275	0.251	0.258	0.263	0.249	0.238	0.237		0.255	5.27
4)	C	Vinyl chloride	0.135	0.206	0.186	0.191	0.166	0.187	0.182	0.180		0.179	11.83
5)	T	Bromomethane		0.211	0.179	0.160	0.204	0.139	0.138	0.141		*Q	0.9977
6)	T	Chloroethane	0.086	0.133	0.125	0.130	0.117	0.128	0.127	0.125		0.121	12.50
7)	T	Trichlorofluoromethane	0.290	0.445	0.393	0.387	0.351	0.373	0.347	0.335		0.365	12.59
8)	T	Ethyl ether	0.111	0.116	0.123	0.127	0.114	0.127	0.126	0.123		0.121	5.18
10)	T	1,1-Dichloroethene	0.174	0.192	0.188	0.189	0.164	0.184	0.179	0.181		0.181	5.07
11)	T	Carbon disulfide		0.630	0.541	0.536	0.691	0.520	0.506	0.511		0.562	12.51
12)	T	Freon-113		0.216	0.200	0.198	0.182	0.194	0.187	0.186		0.195	5.98
13)	T	Iodomethane		0.021	0.080	0.158		0.208	0.215	0.223		*L	0.9917
14)	T	Acrolein			0.029	0.031		0.034	0.034	0.033		0.032	5.90
15)	T	Methylene chloride	0.289	0.257	0.233	0.245	0.250	0.240	0.235	0.237		0.248	7.30
17)	T	Acetone	0.067	0.070	0.072	0.078	0.069	0.074	0.073	0.067		0.071	5.27
18)	T	trans-1,2-Dichloroethene	0.203	0.253	0.228	0.236	0.232	0.231	0.225	0.228		0.230	6.06
19)	T	Methyl acetate	0.186	0.189	0.200	0.211	0.182	0.212	0.209	0.195		0.198	5.95
20)	T	Methyl tert-butyl ether	0.712	0.758	0.737	0.775	0.725	0.760	0.757	0.724		0.743	2.97
21)	T	tert-Butyl alcohol	0.028	0.032	0.032	0.035	0.030	0.036	0.035	0.032		0.032	8.76
22)	T	Diisopropyl ether	1.158	1.203	1.134	1.174	1.164	1.151	1.109	1.077		1.146	3.41
23)	C	1,1-Dichloroethane	0.514	0.525	0.493	0.523	0.496	0.510	0.496	0.492		0.506	2.66
24)	T	Halothane	0.143	0.196	0.183	0.186	0.189	0.184	0.182	0.181		0.180	8.70
25)	T	Acrylonitrile		0.070	0.089	0.101		0.100	0.101	0.094		0.092	12.91
26)	T	Ethyl tert-butyl ether	1.027	1.052	1.013	1.070	1.018	1.061	1.046	1.003		1.036	2.36
27)	T	Vinyl acetate	0.524	0.631	0.640	0.687	0.593	0.695	0.670	0.632		0.634	8.77
28)	T	cis-1,2-Dichloroethene	0.284	0.276	0.272	0.286	0.266	0.276	0.274	0.272		0.276	2.28
29)	T	2,2-Dichloropropane	0.434	0.478	0.433	0.445	0.441	0.428	0.409	0.399		0.433	5.52
30)	T	Bromochloromethane	0.126	0.134	0.138	0.144	0.132	0.138	0.135	0.131		0.135	3.98
31)	T	Cyclohexane	0.387	0.505	0.467	0.467	0.458	0.463	0.450	0.438		0.455	7.34
32)	C	Chloroform	0.538	0.533	0.504	0.517	0.506	0.503	0.486	0.473		0.508	4.26
33)	T	Ethyl acetate	0.204	0.282	0.287	0.307	0.250	0.309	0.307	0.278		0.278	12.89
34)	T	Carbon tetrachloride	0.258	0.409	0.417	0.423	0.339	0.415	0.397	0.381		0.380	14.83
35)	T	Tetrahydrofuran	0.081	0.082	0.101	0.103	0.072	0.104	0.101	0.092		0.092	13.10
36)	S	Dibromofluoromethane	0.266	0.265	0.272	0.267	0.270	0.265	0.272	0.263	0.266	0.267	1.26
37)	T	1,1,1-Trichloroethane	0.474	0.484	0.470	0.475	0.466	0.464	0.440	0.423	0.377	0.452	7.54
39)	T	2-Butanone		0.111	0.127	0.125	0.103	0.126	0.126	0.114		0.119	7.99
40)	T	1,1-Dichloropropene	0.291	0.331	0.312	0.318	0.299	0.313	0.306	0.302	0.258	0.303	6.76
41)	T	Benzene	0.970	0.985	0.942	0.964	0.928	0.951	0.936	0.934	0.962	0.952	2.00

Initial Calibration Summary
Form 6

Client	**: CHA Companies**	**Lab Number**	**: L1849060**
Project Name	**: 700 SMITH BLVD**	**Project Number**	**: 29852.1202.44000**
Instrument ID	**: VOA111**	**Ical Ref**	**: ICAL15260**
Calibration dates	**: 11/15/18 21:43 11/16/18 01:11**		

Calibration Files

L1 =V11181115N04.D L2 =V11181115N06.D L3 =V11181115N07.D L4 =V11181115N08.D L1.5=V11181115N05.D

L6 =V11181115N09.D L7 =V11181115N10.D L8 =V11181115N11.D L0 =V11181115N03.D

		Compound	L1	L2	L3	L4	L1.5	L6	L7	L8	L0	Avg	%RSD
42)	T	tert-Amyl methyl ether	0.775	0.787	0.758	0.811	0.743	0.814	0.802	0.774		0.783	3.25
43)	S	1,2-Dichloroethane-d4	0.330	0.328	0.335	0.332	0.332	0.334	0.332	0.315	0.329	0.330	1.84
44)	T	1,2-Dichloroethane	0.453	0.487	0.461	0.486	0.469	0.473	0.448	0.419		0.462	4.80
47)	T	Methyl cyclohexane	0.306	0.397	0.384	0.379	0.327	0.379	0.361	0.368		0.363	8.53
48)	T	Trichloroethene	0.288	0.269	0.265	0.272	0.276	0.266	0.255	0.255	0.243	0.265	4.96
50)	T	Dibromomethane	0.132	0.152	0.158	0.164	0.140	0.168	0.162	0.159		0.154	8.13
51)	C	1,2-Dichloropropane	0.247	0.286	0.288	0.298	0.268	0.293	0.282	0.289		0.281	5.90
53)	T	2-Chloroethyl vinyl ether		0.099	0.122	0.127		0.118	0.101	0.087		0.109	14.52
54)	T	Bromodichloromethane	0.391	0.424	0.417	0.431	0.381	0.429	0.411	0.408	0.372	0.407	5.21
57)	T	1,4-Dioxane	0.001	0.002	0.003	0.003	0.002	0.003	0.003	0.003		*L	0.9990
58)	T	cis-1,3-Dichloropropene	0.430	0.426	0.444	0.458	0.418	0.462	0.452	0.453	0.363	0.434	7.05
59)	I	Chlorobenzene-d5	----------ISTD----------										
60)	S	Toluene-d8	1.217	1.199	1.196	1.198	1.188	1.188	1.188	1.185	1.202	1.196	0.83
61)	C	Toluene	0.755	0.804	0.736	0.774	0.783	0.768	0.723	0.742		0.761	3.50
62)	T	4-Methyl-2-pentanone		0.101	0.117	0.128		0.134	0.132	0.126		0.123	9.98
63)	T	Tetrachloroethene	0.313	0.350	0.327	0.327	0.326	0.327	0.307	0.311	0.255	0.316	8.31
65)	T	trans-1,3-Dichloropropene	0.402	0.494	0.494	0.531	0.441	0.533	0.510	0.509		0.489	9.31
67)	T	Ethyl methacrylate		0.312	0.340	0.376		0.391	0.384	0.378		0.364	8.43
68)	T	1,1,2-Trichloroethane	0.204	0.213	0.207	0.223	0.188	0.225	0.217	0.218		0.212	5.61
69)	T	Chlorodibromomethane	0.328	0.365	0.365	0.390	0.334	0.397	0.378	0.376		0.367	6.72
70)	T	1,3-Dichloropropane	0.434	0.458	0.434	0.470	0.423	0.472	0.457	0.453		0.450	3.99
71)	T	1,2-Dibromoethane	0.213	0.271	0.270	0.284	0.250	0.290	0.279	0.275		0.266	9.20
72)	T	2-Hexanone	0.014	0.143	0.218	0.237	0.111	0.251	0.243	0.228		*L	0.9981
73)	T	Chlorobenzene	1.015	0.946	0.886	0.919	0.918	0.922	0.869	0.895	0.957	0.925	4.71
74)	C	Ethylbenzene	1.494	1.577	1.477	1.536	1.438	1.539	1.446	1.470		1.497	3.30
75)	T	1,1,1,2-Tetrachloroethane	0.338	0.377	0.361	0.386	0.358	0.392	0.365	0.366	0.312	0.362	6.82
76)	T	p/m Xylene	0.577	0.615	0.587	0.610	0.586	0.613	0.570	0.579		0.592	2.99
77)	T	o Xylene	0.595	0.603	0.584	0.605	0.579	0.612	0.568	0.576	0.609	0.592	2.65
78)	T	Styrene	0.923	1.009	0.990	1.061	0.939	1.065	0.998	1.007	0.865	0.984	6.59
79)	I	1,4-Dichlorobenzene-d4	----------ISTD----------										
80)	T	Bromoform	0.322	0.393	0.399	0.427	0.350	0.441	0.429	0.437		0.400	10.87
82)	T	Isopropylbenzene	2.829	3.010	2.747	2.764	2.780	2.803	2.660	2.760		2.794	3.59
83)	S	4-Bromofluorobenzene	0.949	0.933	0.920	0.894	0.937	0.913	0.924	0.942	0.943	0.928	1.88
84)	T	Bromobenzene	0.707	0.765	0.718	0.737	0.760	0.742	0.711	0.739		0.735	2.93
85)	T	n-Propylbenzene	3.306	3.407	3.203	3.231	3.240	3.250	3.087	3.222		3.243	2.79
86)	T	1,4-Dichlorobutane	1.134	1.162	1.133	1.173	1.086	1.191	1.137	1.125		1.142	2.84
87)	T	1,1,2,2-Tetrachloroethane	0.578	0.616	0.584	0.618	0.595	0.640	0.626	0.635	0.506	0.600	6.88
88)	T	4-Ethyltoluene	2.850	3.060	2.826	2.878	2.817	2.896	2.758	2.876		2.870	3.07

Initial Calibration Summary
Form 6

Client	**: CHA Companies**	**Lab Number**	**: L1849060**
Project Name	**: 700 SMITH BLVD**	**Project Number**	**: 29852.1202.44000**
Instrument ID	**: VOA111**	**Ical Ref**	**: ICAL15260**
Calibration dates	**: 11/15/18 21:43 11/16/18 01:11**		

Calibration Files
L1 =V11181115N04.D L2 =V11181115N06.D L3 =V11181115N07.D L4 =V11181115N08.D L1.5=V11181115N05.D
L6 =V11181115N09.D L7 =V11181115N10.D L8 =V11181115N11.D L0 =V11181115N03.D

		Compound	L1	L2	L3	L4	L1.5	L6	L7	L8	L0	Avg	%RSD
89)	T	2-Chlorotoluene	2.481	2.524	2.313	2.367	2.435	2.391	2.265	2.351		2.391	3.60
90)	T	1,3,5-Trimethylbenzene	2.680	2.610	2.451	2.485	2.518	2.495	2.351	2.443		2.504	4.07
91)	T	1,2,3-Trichloropropane	0.479	0.516	0.511	0.532	0.519	0.529	0.514	0.510		0.514	3.17
92)	T	trans-1,4-Dichloro-2-b...		0.191	0.222	0.246		0.257	0.246	0.236		0.233	10.25
93)	T	4-Chlorotoluene	2.266	2.231	2.138	2.147	2.149	2.150	2.044	2.115		2.155	3.16
94)	T	tert-Butylbenzene	2.093	2.231	2.091	2.109	2.125	2.118	2.002	2.056		2.103	3.10
97)	T	1,2,4-Trimethylbenzene	2.536	2.601	2.467	2.571	2.463	2.581	2.437	2.522		2.522	2.41
98)	T	sec-Butylbenzene	3.018	3.251	3.050	3.025	2.981	3.054	2.881	2.950		3.026	3.55
99)	T	p-Isopropyltoluene	2.650	2.820	2.723	2.789	2.641	2.775	2.609	2.668		2.710	2.89
100)	T	1,3-Dichlorobenzene	1.566	1.515	1.419	1.471	1.411	1.474	1.381	1.426		1.458	4.18
101)	T	1,4-Dichlorobenzene	1.599	1.580	1.482	1.500	1.463	1.507	1.419	1.469		1.503	4.02
102)	T	p-Diethylbenzene	1.660	1.719	1.650	1.722	1.659	1.720	1.617	1.657		1.675	2.37
103)	T	n-Butylbenzene	2.230	2.592	2.455	2.498	2.426	2.489	2.347	2.406		2.430	4.47
104)	T	1,2-Dichlorobenzene	1.281	1.427	1.362	1.424	1.316	1.427	1.354	1.383		1.372	3.96
105)	T	1,2,4,5-Tetramethylben...	2.686	2.853	2.783	2.887	2.733	2.954	2.789	2.864		2.818	3.10
106)	T	1,2-Dibromo-3-chloropr...	0.026	0.080	0.102	0.116	0.045	0.117	0.118	0.115		*L	0.9995
107)	T	1,3,5-Trichlorobenzene	1.057	1.120	1.054	1.096	1.054	1.100	1.022	1.055		1.070	3.03
108)	T	Hexachlorobutadiene	0.395	0.505	0.471	0.465	0.440	0.463	0.434	0.444		0.452	7.12
109)	T	1,2,4-Trichlorobenzene	0.872	0.943	0.930	0.985	0.870	1.013	0.948	0.973		0.942	5.40
110)	T	Naphthalene	2.105	2.145	2.139	2.329	2.120	2.435	2.368	2.356		2.250	5.98
111)	T	1,2,3-Trichlorobenzene	0.892	0.908	0.856	0.916	0.855	0.930	0.881	0.900		0.892	3.02

Response Factor Report VOA 104

Method Path : I:\VOLATILES\VOA104\2018\181029N\
Method File : V104_181029N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Tue Oct 30 09:42:37 2018
Response Via : Initial Calibration

Calibration Files
L1 =V04181029N04.D L2 =V04181029N06.D L3 =V04181029N07.D L4 =V04181029N08.D L6 =V04181029N09.D
L7 =V04181029N10.D L8 =V04181029N11.D L0 =V04181029N03.D L1.5=V04181029N05.D

		Compound	L1	L2	L3	L4	L6	L7	L8	L0	L1.5	Avg	%RSD
1)	I	Fluorobenzene	ISTD										
2)	TP	Dichlorodifluo...	0.237	0.240	0.250	0.251	0.226	0.223	0.215	0.198	0.230	7.91	
3)	TP	Chloromethane	0.536	0.499	0.489	0.465	0.425	0.418	0.432	0.491	0.469	8.91	
4)	TC	Vinyl chloride	0.364	0.346	0.364	0.359	0.326	0.325	0.321	0.328	0.342	5.53	
5)	TP	Bromomethane	0.231	0.183	0.166	0.151	0.138	0.133	0.135	0.195	*L	0.9981	
6)	TP	Chloroethane	0.169	0.158	0.154	0.150	0.126			0.166	0.154	9.94	
7)	TP	Trichlorofluor...	0.277	0.269	0.280	0.283	0.250	0.230	0.213	0.226	0.254	10.93	
8)	TP	Ethyl ether	0.088	0.089	0.098	0.097	0.093	0.090	0.087	0.098	0.092	4.98	
10)	TC	1,1-Dichloroet...	0.150	0.166	0.170	0.174	0.160	0.157	0.160	0.154	0.162	5.06	
11)	TP	Carbon disulfide	0.681	0.560	0.552	0.532	0.498	0.466	0.581	0.537	0.551	11.57	
12)	TP	Freon-113	0.180	0.191	0.193	0.190	0.174	0.158	0.190	0.132	0.176	12.20	
13)	TP	Iodomethane		0.038	0.110	0.176	0.239	0.260	0.250		*L	0.9921	
14)	TP	Acrolein		0.044	0.053	0.054	0.051	0.052	0.049		0.050	7.06	
15)	TP	Methylene chlo...		0.318	0.304	0.298	0.276	0.272	0.262	0.369	0.300	12.17	
17)	TP	Acetone		0.108	0.090	0.091	0.079	0.072	0.078	0.101	0.089#	14.60	
18)	TP	trans-1,2-Dich...	0.258	0.258	0.284	0.281	0.262	0.260	0.249	0.245	0.262	5.40	
19)	TP	Methyl acetate	0.258	0.250	0.259	0.256	0.240	0.234	0.232	0.254	0.248	4.40	
20)	TP	Methyl tert-bu...	0.665	0.678	0.738	0.736	0.692	0.678	0.657	0.676	0.690	4.45	
21)	TP	tert-Butyl alc...	0.038	0.046	0.046	0.044	0.041	0.041	0.039	0.040	0.042#	7.42	
22)	TP	Diisopropyl ether	1.212	1.251	1.338	1.320	1.228	1.186	1.140	1.213	1.236	5.34	
23)	TP	1,1-Dichloroet...	0.645	0.655	0.703	0.688	0.645	0.635	0.608	0.647	0.653	4.57	
24)	TP	Halothane	0.176	0.198	0.216	0.215	0.198	0.198	0.188	0.188	0.197	6.84	
25)	TP	Acrylonitrile		0.109	0.135	0.134	0.127	0.127	0.121	0.089	0.120	13.49	
26)	TP	Ethyl tert-but...	1.087	1.172	1.257	1.247	1.165	1.141	1.097	1.173	1.167	5.27	
27)	TP	Vinyl acetate	0.477	0.612	0.708	0.668	0.651	0.683	0.588	0.553	0.617	12.38	
28)	TP	cis-1,2-Dichlo...	0.272	0.288	0.319	0.313	0.293	0.291	0.278	0.283	0.292	5.61	
29)	TP	2,2-Dichloropr...	0.368	0.373	0.388	0.381	0.353	0.356	0.341	0.365	0.365	4.22	
30)	TP	Bromochloromet...	0.146	0.138	0.154	0.148	0.136	0.133	0.127	0.136	0.140	6.18	
31)	TP	Cyclohexane	0.673	0.669	0.692	0.694	0.621	0.595	0.564	0.566	0.634	8.61	
32)	TC	Chloroform	0.493	0.474	0.501	0.494	0.464	0.458	0.435	0.478	0.475	4.62	
33)	TP	Ethyl acetate	0.229	0.298	0.351	0.350	0.325	0.321	0.305	0.272	0.306	13.34	

Response Factor Report VOA 104

Method Path : I:\VOLATILES\VOA104\2018\181029N\
Method File : V104_181029N_8260.m
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Calibration Files
L1 =V04181029N04.D L2 =V04181029N06.D L3 =V04181029N07.D L4 =V04181029N08.D L6 =V04181029N09.D
L7 =V04181029N10.D L8 =V04181029N11.D L0 =V04181029N03.D L1.5=V04181029N05.D

		Compound	L1	L2	L3	L4	L6	L7	L8	L0	L1.5	Avg	%RSD
34)	TP	Carbon tetrach...	0.287	0.331	0.351	0.359	0.335	0.332	0.317	0.295	0.326		7.71
35)	TP	Tetrahydrofuran		0.108	0.110	0.110	0.097	0.095	0.092	0.081	0.099		10.94
36)	S	Dibromofluorom...	0.252	0.249	0.254	0.260	0.261	0.259	0.261	0.248	0.249	0.255	2.17
37)	TP	1,1,1-Trichlor...	0.380	0.390	0.414	0.412	0.379	0.377	0.360	0.375	0.364	0.383	4.93
39)	TP	2-Butanone		0.175	0.176	0.158	0.146	0.141	0.139		0.121	0.151	13.31
40)	TP	1,1-Dichloropr...	0.315	0.329	0.355	0.350	0.322	0.318	0.304	0.296	0.309	0.322	6.21
41)	TP	Benzene	1.049	1.053	1.106	1.089	1.014	1.001	0.955	1.081	1.038	1.043	4.55
42)	TP	tert-Amyl meth...	0.680	0.706	0.770	0.762	0.718	0.701	0.678		0.693	0.713	4.90
43)	S	1,2-Dichloroet...	0.287	0.286	0.286	0.287	0.287	0.295	0.294	0.289	0.287	0.289	1.21
44)	TP	1,2-Dichloroet...	0.413	0.416	0.445	0.439	0.412	0.402	0.389		0.398	0.414	4.67
47)	TP	Methyl cyclohe...	0.418	0.425	0.431	0.434	0.396	0.376	0.355		0.334	0.396	9.52
48)	TP	Trichloroethene	0.281	0.280	0.303	0.301	0.280	0.273	0.266	0.238	0.273	0.277	6.88
50)	TP	Dibromomethane	0.131	0.155	0.178	0.176	0.166	0.167	0.162		0.144	0.160	9.96
51)	TC	1,2-Dichloropr...	0.390	0.390	0.421	0.417	0.392	0.387	0.374		0.375	0.393	4.41
53)	TP	2-Chloroethyl ...		0.161	0.212	0.221	0.212	0.215	0.206			0.204	10.64
54)	TP	Bromodichlorom...	0.330	0.349	0.391	0.388	0.371	0.370	0.362	0.282	0.342	0.354	9.54
57)	TP	1,4-Dioxane		0.002	0.003	0.003	0.003	0.003	0.003		0.001	*L	0.9984
58)	TP	cis-1,3-Dichlo...	0.351	0.391	0.458	0.461	0.435	0.440	0.426	0.295	0.378	0.404	13.69
59)	I	Chlorobenzene-d5	----------ISTD----------										
60)	S	Toluene-d8	1.332	1.331	1.324	1.319	1.323	1.311	1.320	1.340	1.338	1.326	0.72
61)	TC	Toluene	0.884	0.909	0.958	0.931	0.874	0.859	0.819		0.906	0.892	4.85
62)	TP	4-Methyl-2-pen...		0.178	0.227	0.225	0.211	0.208	0.199		0.143	0.199	14.94
63)	TP	Tetrachloroethene	0.358	0.395	0.413	0.407	0.374	0.367	0.345	0.297	0.361	0.369	9.63
65)	TP	trans-1,3-Dich...	0.336	0.445	0.539	0.538	0.524	0.520	0.509		0.395	*L	0.9995
67)	TP	Ethyl methacry...		0.383	0.471	0.463	0.441	0.436	0.421			0.436	7.28
68)	TP	1,1,2-Trichlor...	0.226	0.279	0.304	0.294	0.277	0.272	0.261		0.267	0.273	8.56
69)	TP	Chlorodibromom...	0.329	0.379	0.431	0.432	0.415	0.414	0.403		0.364	0.396	9.08
70)	TP	1,3-Dichloropr...	0.445	0.508	0.572	0.562	0.531	0.521	0.506		0.499	0.518	7.65
71)	TP	1,2-Dibromoethane		0.306	0.361	0.364	0.343	0.342	0.334		0.277	0.332	9.40
72)	TP	2-Hexanone		0.254	0.332	0.340	0.320	0.316	0.311			0.312	9.71
73)	TP	Chlorobenzene	1.054	1.043	1.108	1.075	1.010	0.989	0.939	0.999	1.048	1.029	4.92

Response Factor Report VOA 104

Method Path : I:\VOLATILES\VOA104\2018\181029N\
Method File : V104_181029N_8260.m
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Last Update : Tue Oct 30 09:42:37 2018
Response Via : Initial Calibration

Calibration Files
L1 =V04181029N04.D L2 =V04181029N06.D L3 =V04181029N07.D L4 =V04181029N08.D L6 =V04181029N09.D
L7 =V04181029N10.D L8 =V04181029N11.D L0 =V04181029N03.D L1.5=V04181029N05.D

		Compound	L1	L2	L3	L4	L6	L7	L8	L0	L1.5	Avg	%RSD
74)	TC	Ethylbenzene	1.701	1.750	1.851	1.794	1.671	1.637	1.544		1.681	1.704	5.60
75)	TP	1,1,1,2-Tetrac...	0.357	0.383	0.408	0.403	0.383	0.375	0.359	0.293	0.355	0.368	9.28
76)	TP	p/m Xylene	0.603	0.671	0.714	0.688	0.639	0.613	0.570		0.630	0.641	7.42
77)	TP	o Xylene	0.630	0.654	0.698	0.669	0.625	0.597	0.559	0.601	0.647	0.631	6.61
78)	TP	Styrene	0.992	1.054	1.157	1.127	1.053	1.005	0.945	0.922	1.024	1.031	7.47
79)	I	1,4-Dichlorobenzene-d4	----------ISTD----------										
80)	TP	Bromoform	0.345	0.466	0.535	0.552	0.531	0.530	0.521		0.426	0.488	14.63
82)	TP	Isopropylbenzene	3.379	3.491	3.549	3.517	3.241	3.177	3.000		3.338	3.337	5.68
83)	S	4-Bromofluorob...	0.962	0.951	0.960	0.963	0.971	0.972	0.982	0.957	0.963	0.965	0.94
84)	TP	Bromobenzene	0.777	0.869	0.938	0.933	0.878	0.863	0.836		0.831	0.866	6.15
85)	TP	n-Propylbenzene	3.849	4.080	4.213	4.184	3.866	3.762	3.534		3.976	3.933	5.80
86)	TP	1,4-Dichlorobu...	1.551	1.675	1.790	1.794	1.662	1.623	1.554		1.633	1.660	5.58
87)	TP	1,1,2,2-Tetrac...	0.811	0.842	0.932	0.923	0.856	0.858	0.812	0.642	0.886	0.840	10.20
88)	TP	4-Ethyltoluene	3.194	3.320	3.459	3.466	3.163	3.089	2.908		3.144	3.218	5.90
89)	TP	2-Chlorotoluene	2.546	2.436	2.521	2.510	2.342	2.311	2.218		2.379	2.408	4.81
90)	TP	1,3,5-Trimethy...	3.020	2.988	3.023	3.019	2.740	2.667	2.507		2.911	2.859	6.90
91)	TP	1,2,3-Trichlor...	0.599	0.660	0.690	0.678	0.631	0.622	0.599		0.643	0.640	5.34
92)	TP	trans-1,4-Dich...		0.222	0.313	0.328	0.293	0.297	0.286			0.290	12.54
93)	TP	4-Chlorotoluene	2.372	2.407	2.641	2.536	2.374	2.345	2.237		2.408	2.415	5.10
94)	TP	tert-Butylbenzene	2.392	2.464	2.497	2.494	2.273	2.206	2.072		2.330	2.341	6.47
97)	TP	1,2,4-Trimethy...	2.798	2.896	3.024	3.007	2.785	2.720	2.567		2.832	2.829	5.31
98)	TP	sec-Butylbenzene	3.770	3.899	3.852	3.803	3.464	3.308	3.095		3.712	3.613	8.06
99)	TP	p-Isopropyltol...	3.063	3.123	3.206	3.210	2.924	2.820	2.626		3.029	3.000	6.72
100)	TP	1,3-Dichlorobe...	1.526	1.642	1.736	1.722	1.606	1.568	1.489		1.528	1.602	5.73
101)	TP	1,4-Dichlorobe...	1.768	1.770	1.750	1.765	1.649	1.600	1.519		1.725	1.693	5.56
102)	TP	p-Diethylbenzene	1.717	1.812	1.874	1.892	1.733	1.663	1.559		1.681	1.741	6.49
103)	TP	n-Butylbenzene	2.852	2.955	3.023	2.973	2.723	2.599	2.423		2.780	2.791	7.35
104)	TP	1,2-Dichlorobe...	1.405	1.564	1.663	1.663	1.542	1.508	1.453		1.502	1.537	5.98
105)	TP	1,2,4,5-Tetram...	2.672	2.832	3.027	3.041	2.810	2.735	2.595		2.749	2.808	5.64
106)	TP	1,2-Dibromo-3-...		0.106	0.147	0.152	0.143	0.145	0.145		0.089	*L	0.9996
107)	TP	1,3,5-Trichlor...	1.005	1.140	1.200	1.200	1.096	1.076	1.019		1.085	1.103	6.66

Method Path : I:\VOLATILES\VOA104\2018\181029N\
Method File : V104_181029N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Tue Oct 30 09:42:37 2018
Response Via : Initial Calibration

Calibration Files
L1 =V04181029N04.D L2 =V04181029N06.D L3 =V04181029N07.D L4 =V04181029N08.D L6 =V04181029N09.D
L7 =V04181029N10.D L8 =V04181029N11.D L0 =V04181029N03.D L1.5=V04181029N05.D

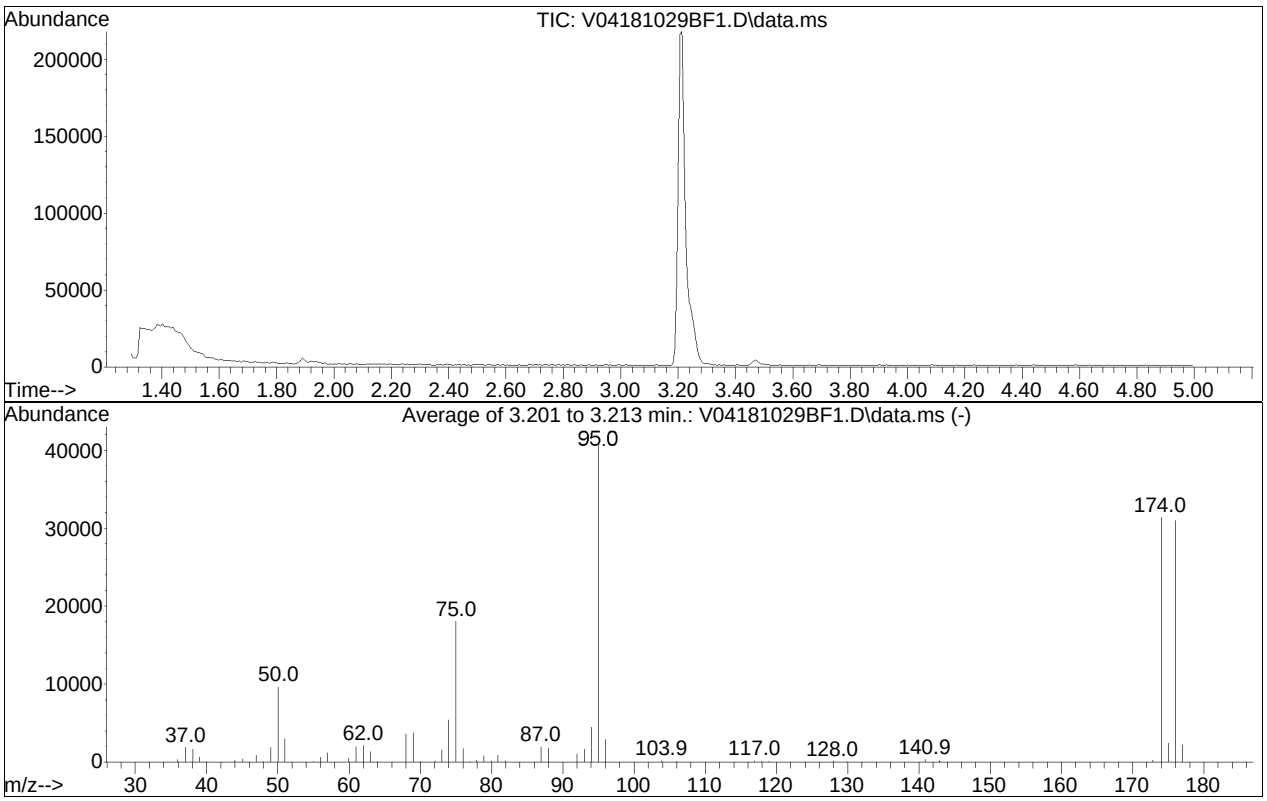
	Compound	L1	L2	L3	L4	L6	L7	L8	L0	L1.5	Avg	%RSD
108) TP	Hexachlorobuta...	0.493	0.537	0.530	0.527	0.485	0.466	0.439	0.533	0.501	7.25	
109) TP	1,2,4-Trichlor...	0.921	1.060	1.150	1.144	1.063	1.034	0.982	0.974	1.041	7.76	
110) TP	Naphthalene	2.243	2.623	2.880	2.898	2.699	2.671	2.585	2.397	2.625	8.48	
111) TP	1,2,3-Trichlor...	0.894	1.005	1.090	1.085	0.996	0.974	0.939	0.994	0.997	6.67	

(#) = Out of Range

Data Path : I:\VOLATILES\VOA104\2018\181029N\
Data File : V04181029BF1.D
Acq On : 29 Oct 2018 9:41 pm
Operator : VOA104:JC
Sample : WG1173809-1
Misc : WG1173809,ICAL
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\VOLATILES\VOA104\2018\181029N\V104_181029N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Tue Oct 30 09:42:37 2018



Spectrum Information: Average of 3.201 to 3.213 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.5	9648	PASS
75	95	30	60	44.1	18071	PASS
95	95	100	100	100.0	40984	PASS
96	95	5	9	7.0	2886	PASS
173	174	0.00	2	0.8	237	PASS
174	95	50	100	76.7	31419	PASS
175	174	5	9	7.8	2465	PASS
176	174	95	101	98.7	31019	PASS
177	176	5	9	7.1	2214	PASS

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2018\181029N\
Data File : V04181029N03.D
Acq On : 29 Oct 2018 10:59 pm
Operator : VOA104:JC
Sample : I8260STDL0
Misc : WG1173809,ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 30 09:35:51 2018
Quant Method : I:\VOLATILES\VOA104\2018\181029N\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 30 09:25:47 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2018\181029N\V04181029N07.D
Sub List : 8260-L0_soils - Only for SOILS Level 0

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.875	96	134400	20.000	ug/L	0.00
Standard Area 1 = 137158			Recovery = 97.99%			
59) Chlorobenzene-d5	9.388	117	96314	20.000	ug/L	0.00
Standard Area 1 = 99217			Recovery = 97.07%			
79) 1,4-Dichlorobenzene-d4	12.120	152	49290	20.000	ug/L	0.00
Standard Area 1 = 50228			Recovery = 98.13%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.084	113	33307	19.466	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 97.33%			
43) 1,2-Dichloroethane-d4	5.603	65	38868	20.033	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 100.17%			
60) Toluene-d8	7.548	98	129066	20.206	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 101.03%			
83) 4-Bromofluorobenzene	10.903	95	47195	19.855	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 99.28%			
Target Compounds						Qvalue
37) 1,1,1-Trichloroethane	5.094	97	1259	0.489	ug/L #	88
40) 1,1-Dichloropropene	5.220	75	995	0.460	ug/L #	75
41) Benzene	5.461	78	3632	0.518	ug/L	93
48) Trichloroethene	6.054	95	801	0.430	ug/L	96
54) Bromodichloromethane	6.683	83	946	0.398	ug/L #	53
58) cis-1,3-Dichloropropene	7.364	75	991	0.365	ug/L #	85
63) Tetrachloroethene	8.046	166	714	0.402	ug/L	91
73) Chlorobenzene	9.414	112	2405	0.485	ug/L #	66
75) 1,1,1,2-Tetrachloroethane	9.493	131	705	0.397	ug/L #	62
77) o Xylene	10.185	106	2896	0.953	ug/L	90
78) Styrene	10.269	104	4440	0.894	ug/L	99
87) 1,1,2,2-Tetrachloroethane	11.166	83	791	0.382	ug/L #	95

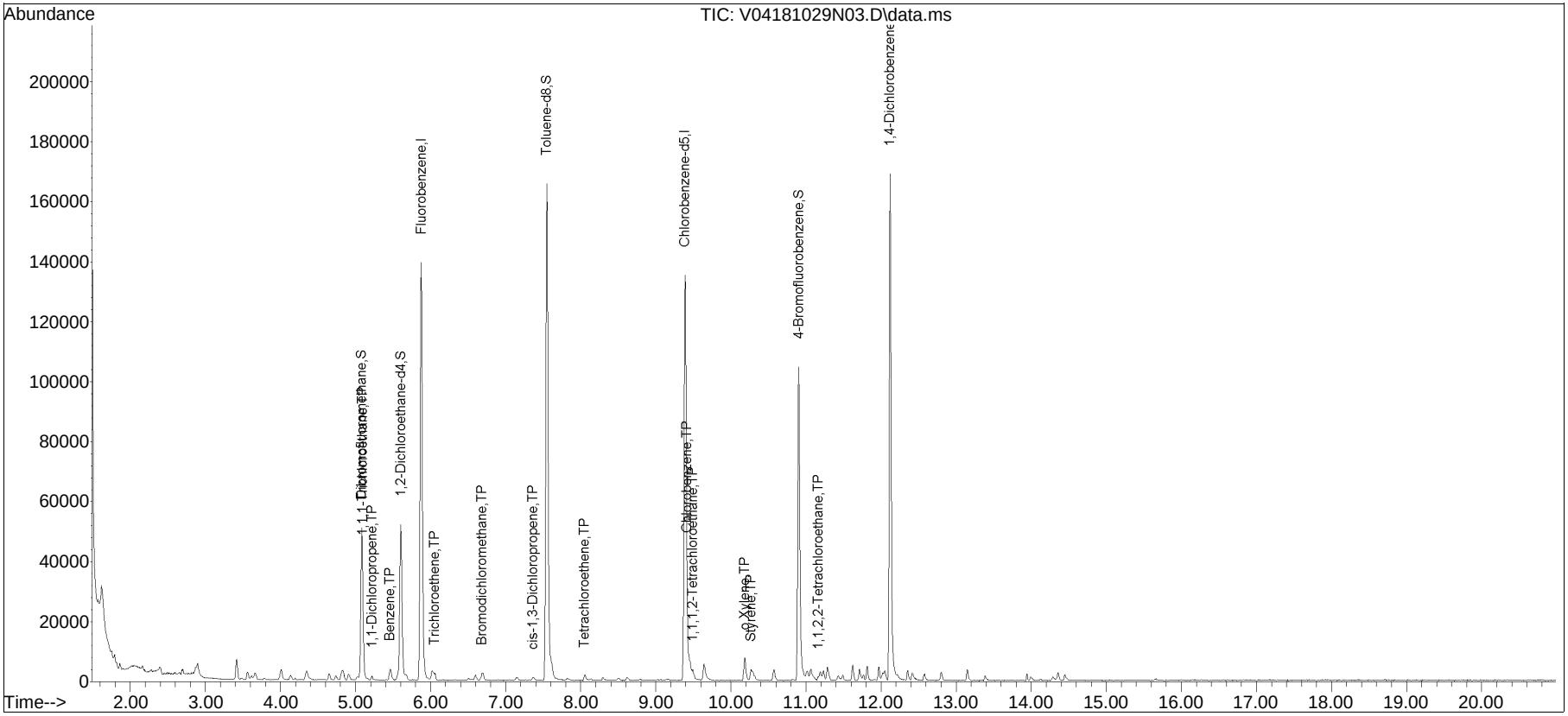
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2018\181029N\
Data File : V04181029N03.D
Acq On : 29 Oct 2018 10:59 pm
Operator : VOA104:JC
Sample : I8260STDL0
Misc : WG1173809,ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 30 09:35:51 2018
Quant Method : I:\VOLATILES\VOA104\2018\181029N\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 30 09:25:47 2018
Response via : Initial Calibration

Sub List : 8260-L0_soils - Only for SOILS Level 004181029N07.D•



Manual Integration Report

Data Path	: I:\VOLATILES\VOA104\2018\1	QMethod	: V104_181029N_8260.m
Data File	: V04181029N03.D	Operator	: VOA104:JC
Date Inj'd	: 10/29/2018 10:59 pm	Instrument	: VOA 104
Sample	: I8260STDL0	Quant Date	: 10/30/2018 9:35 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2018\181029N\
Data File : V04181029N04.D
Acq On : 29 Oct 2018 11:27 pm
Operator : VOA104:JC
Sample : I8260STDL1
Misc : WG1173809,ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 30 09:35:59 2018
Quant Method : I:\VOLATILES\VOA104\2018\181029N\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 30 09:25:47 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2018\181029N\V04181029N07.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.875	96	138293	20.000	ug/L	0.00
Standard Area 1 = 137158			Recovery = 100.83%			
59) Chlorobenzene-d5	9.388	117	100123	20.000	ug/L	0.00
Standard Area 1 = 99217			Recovery = 100.91%			
79) 1,4-Dichlorobenzene-d4	12.120	152	50344	20.000	ug/L	0.00
Standard Area 1 = 50228			Recovery = 100.23%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.084	113	34790	19.760	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 98.80%			
43) 1,2-Dichloroethane-d4	5.603	65	39650	19.861	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 99.30%			
60) Toluene-d8	7.548	98	133327	20.079	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 100.40%			
83) 4-Bromofluorobenzene	10.903	95	48424	19.945	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 99.72%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.613	85	1636	1.029	ug/L	98
3) Chloromethane	1.791	50	3709	1.143	ug/L	93
4) Vinyl chloride	1.859	62	2517	1.065	ug/L	98
5) Bromomethane	2.163	94	1595	0.713	ug/L	88
6) Chloroethane	2.273	64	1167	1.096	ug/L	78
7) Trichlorofluoromethane	2.404	101	1916	1.093	ug/L	96
8) Ethyl ether	2.693	74	607	0.949	ug/L #	56
10) 1,1-Dichloroethene	2.871	96	1039	0.930	ug/L #	52
11) Carbon disulfide	2.897	76	4708	1.236	ug/L	94
12) Freon-113	2.908	101	1242	1.021	ug/L #	57
13) Iodomethane	3.007	142	290	5.273	ug/L #	42
14) Acrolein	3.201	56	96	0.275	ug/L #	75
15) Methylene chloride	3.422	84	3592	1.733	ug/L #	68
17) Acetone	3.490	43	938	1.532	ug/L #	46
18) trans-1,2-Dichloroethene	3.563	96	1781	0.983	ug/L	75
19) Methyl acetate	3.595	43	1782	1.040	ug/L #	58
20) Methyl tert-butyl ether	3.663	73	4597	0.963	ug/L #	87
21) tert-Butyl alcohol	3.789	59	1309	4.533	ug/L #	58
22) Diisopropyl ether	4.003	45	8378	0.980	ug/L #	89
23) 1,1-Dichloroethane	4.135	63	4462	0.988	ug/L	94
24) Halothane	4.192	117	1219	0.894	ug/L	87

Data Path : I:\VOLATILES\VOA104\2018\181029N\
Data File : V04181029N04.D
Acq On : 29 Oct 2018 11:27 pm
Operator : VOA104:JC
Sample : I8260STDL1
Misc : WG1173809,ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 30 09:35:59 2018
Quant Method : I:\VOLATILES\VOA104\2018\181029N\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 30 09:25:47 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2018\181029N\V04181029N07.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.208	53	389	0.468	ug/L	#	43
26) Ethyl tert-butyl ether	4.350	59	7517	0.931	ug/L	#	60
27) Vinyl acetate	4.386	43	3297M1	0.772	ug/L		
28) cis-1,2-Dichloroethene	4.648	96	1880	0.931	ug/L	#	75
29) 2,2-Dichloropropane	4.738	77	2543	1.006	ug/L		91
30) Bromochloromethane	4.837	128	1009	1.043	ug/L	#	67
31) Cyclohexane	4.821	56	4657	1.062	ug/L	#	67
32) Chloroform	4.905	83	3412	1.040	ug/L		98
33) Ethyl acetate	5.031	43	1585	0.748	ug/L	#	69
34) Carbon tetrachloride	5.031	117	1987	0.882	ug/L		92
35) Tetrahydrofuran	5.073	42	442	0.645	ug/L	#	40
37) 1,1,1-Trichloroethane	5.089	97	2627	0.991	ug/L		92
39) 2-Butanone	5.241	43	462M1	0.443	ug/L		
40) 1,1-Dichloropropene	5.215	75	2177	0.978	ug/L		95
41) Benzene	5.461	78	7256	1.006	ug/L		91
42) tert-Amyl methyl ether	5.566	73	4699	0.953	ug/L		87
44) 1,2-Dichloroethane	5.671	62	2854	0.996	ug/L	#	92
47) Methyl cyclohexane	6.022	83	2891	1.055	ug/L	#	66
48) Trichloroethene	6.059	95	1942	1.013	ug/L		92
50) Dibromomethane	6.504	93	908	0.821	ug/L		89
51) 1,2-Dichloropropane	6.594	63	2697	0.992	ug/L	#	87
53) 2-Chloroethyl vinyl ether	7.312	63	502	0.355	ug/L	#	61
54) Bromodichloromethane	6.677	83	2284	0.934	ug/L	#	83
57) 1,4-Dioxane	0.000		0	N.D.	d		
58) cis-1,3-Dichloropropene	7.364	75	2426	0.869	ug/L		93
61) Toluene	7.605	92	4423	0.990	ug/L		100
62) 4-Methyl-2-pentanone	8.077	58	428	0.430	ug/L	#	21
63) Tetrachloroethene	8.051	166	1793	0.972	ug/L		99
65) trans-1,3-Dichloropropene	8.125	75	1682M1	1.005	ug/L		
67) Ethyl methacrylate	8.313	69	951	0.436	ug/L	#	67
68) 1,1,2-Trichloroethane	8.303	83	1132	0.830	ug/L		97
69) Chlorodibromomethane	8.502	129	1646	0.831	ug/L	#	94
70) 1,3-Dichloropropane	8.617	76	2227	0.859	ug/L		92
71) 1,2-Dibromoethane	8.785	107	1100	0.661	ug/L		93
72) 2-Hexanone	0.000		0	N.D.	d		
73) Chlorobenzene	9.409	112	5277	1.024	ug/L		88
74) Ethylbenzene	9.456	91	8515	0.998	ug/L		93
75) 1,1,1,2-Tetrachloroethane	9.498	131	1788	0.969	ug/L	#	81
76) p/m Xylene	9.645	106	6037	1.882	ug/L		86
77) o Xylene	10.180	106	6306	1.996	ug/L		94

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2018\181029N\
Data File : V04181029N04.D
Acq On : 29 Oct 2018 11:27 pm
Operator : VOA104:JC
Sample : I8260STDL1
Misc : WG1173809,ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 30 09:35:59 2018
Quant Method : I:\VOLATILES\VOA104\2018\181029N\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 30 09:25:47 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2018\181029N\V04181029N07.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
78) Styrene	10.264	104	9935	1.925	ug/L		96
80) Bromoform	10.295	173	869	0.707	ug/L		81
82) Isopropylbenzene	10.568	105	8505	1.013	ug/L		95
84) Bromobenzene	11.019	156	1956	0.898	ug/L		94
85) n-Propylbenzene	11.055	91	9689	0.979	ug/L		96
86) 1,4-Dichlorobutane	11.092	55	3904	0.934	ug/L	#	80
87) 1,1,2,2-Tetrachloroethane	11.165	83	2041	0.965	ug/L	#	90
88) 4-Ethyltoluene	11.186	105	8041	0.993	ug/L		98
89) 2-Chlorotoluene	11.234	91	6408M1	1.057	ug/L		
90) 1,3,5-Trimethylbenzene	11.281	105	7603	1.056	ug/L		99
91) 1,2,3-Trichloropropane	11.302	75	1509	0.936	ug/L	#	83
92) trans-1,4-Dichloro-2-b...	0.000		0	N.D.	d		
93) 4-Chlorotoluene	11.422	91	5972	0.982	ug/L		96
94) tert-Butylbenzene	11.622	119	6020	1.022	ug/L		97
97) 1,2,4-Trimethylbenzene	11.711	105	7043	0.989	ug/L		98
98) sec-Butylbenzene	11.816	105	9491	1.044	ug/L		94
99) p-Isopropyltoluene	11.968	119	7710	1.021	ug/L		96
100) 1,3-Dichlorobenzene	12.052	146	3841	0.952	ug/L		96
101) 1,4-Dichlorobenzene	12.141	146	4451M3	1.044	ug/L		
102) p-Diethylbenzene	12.350	119	4323	0.986	ug/L		93
103) n-Butylbenzene	12.413	91	7180M1	1.022	ug/L		
104) 1,2-Dichlorobenzene	12.576	146	3537	0.914	ug/L		98
105) 1,2,4,5-Tetramethylben...	13.147	119	6725	0.952	ug/L		97
106) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.			
107) 1,3,5-Trichlorobenzene	13.383	180	2531	0.912	ug/L		97
108) Hexachlorobutadiene	13.944	225	1240	0.983	ug/L		94
109) 1,2,4-Trichlorobenzene	13.991	180	2319	0.885	ug/L	#	90
110) Naphthalene	14.280	128	5645M1	0.854	ug/L		
111) 1,2,3-Trichlorobenzene	14.442	180	2251	0.897	ug/L		98

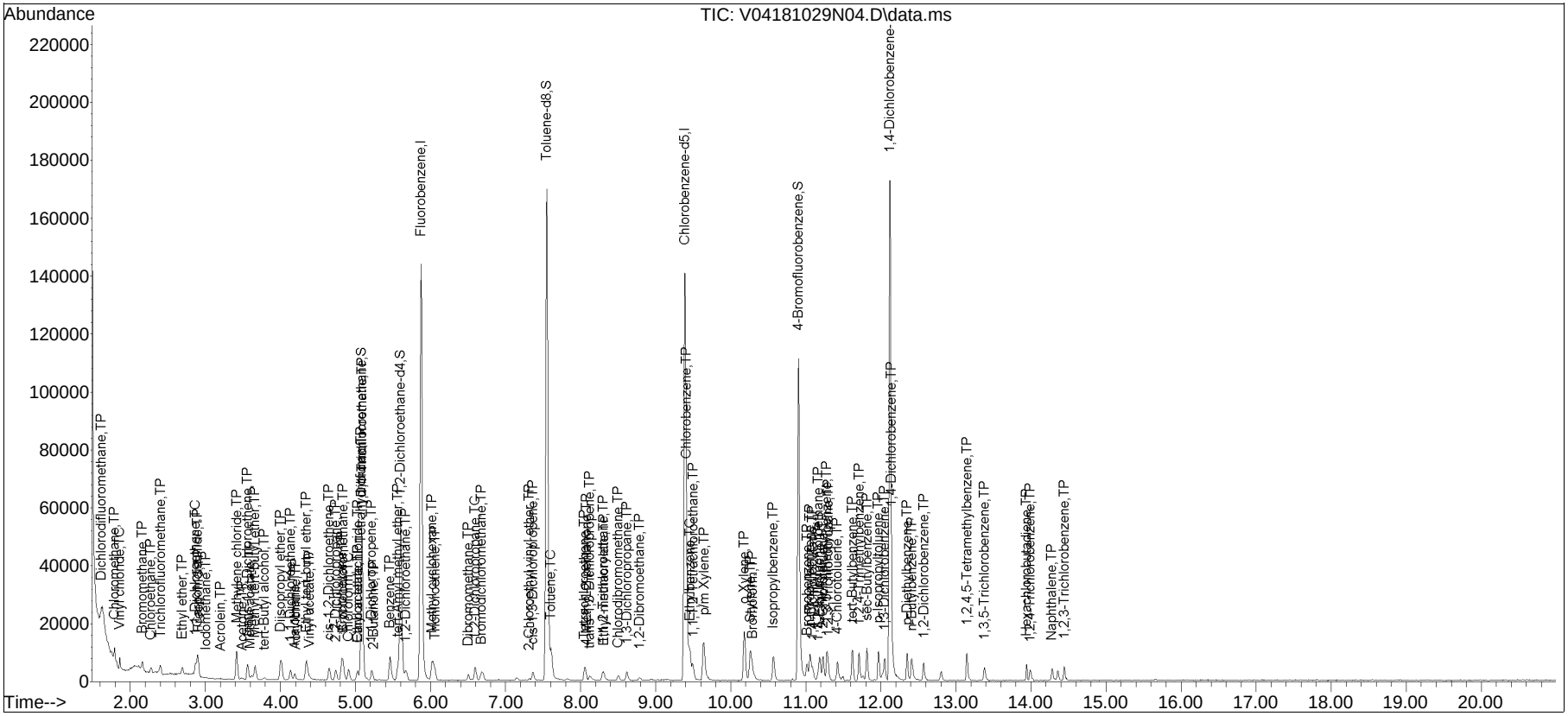
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2018\181029N\
Data File : V04181029N04.D
Acq On : 29 Oct 2018 11:27 pm
Operator : VOA104:JC
Sample : I8260STDL1
Misc : WG1173809,ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 30 09:35:59 2018
Quant Method : I:\VOLATILES\VOA104\2018\181029N\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 30 09:25:47 2018
Response via : Initial Calibration

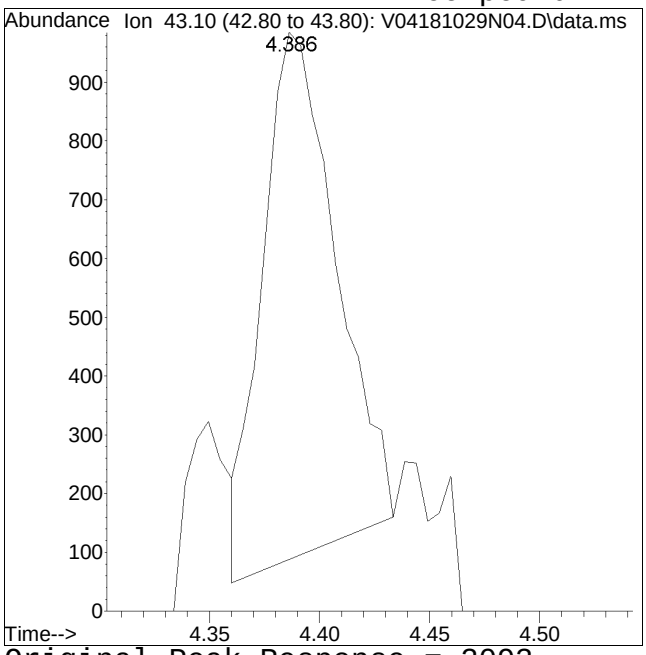
Sub List : 8260-Curve - Megamix plus Diox81029N\V04181029N07.D•

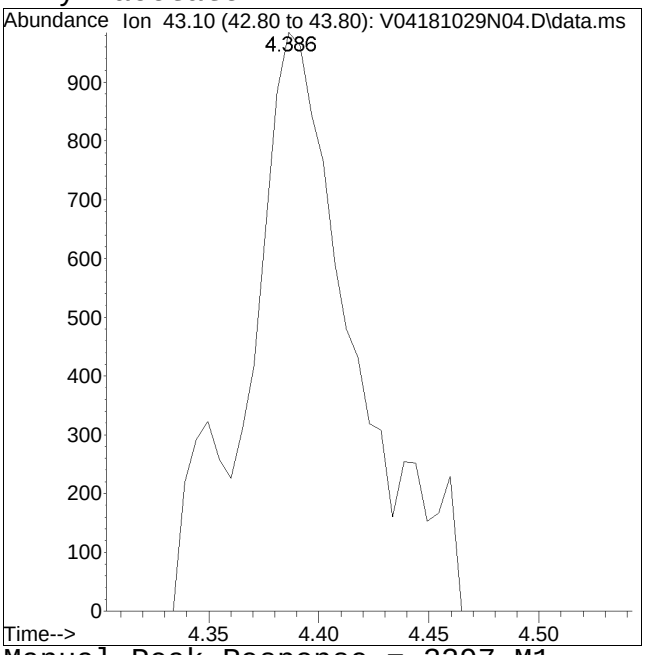


Manual Integration Report

Data Path : I:\VOLATILES\VOA104\2018\1QMethod : V104_181029N_8260.m
Data File : V04181029N04.D Operator : VOA104:JC
Date Inj'd : 10/29/2018 11:27 pm Instrument : VOA 104
Sample : I8260STDL1 Quant Date : 10/30/2018 9:35 am

Compound #27: Vinyl acetate



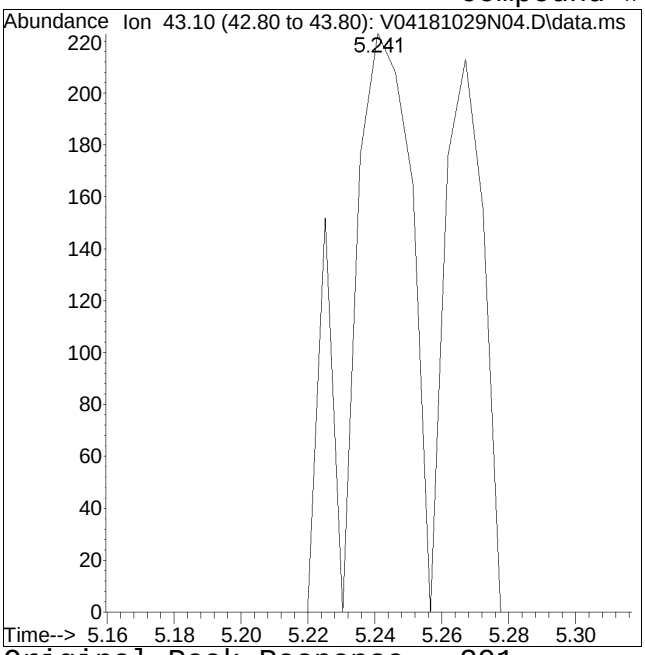


Original Peak Response = 2093 Manual Peak Response = 3297 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

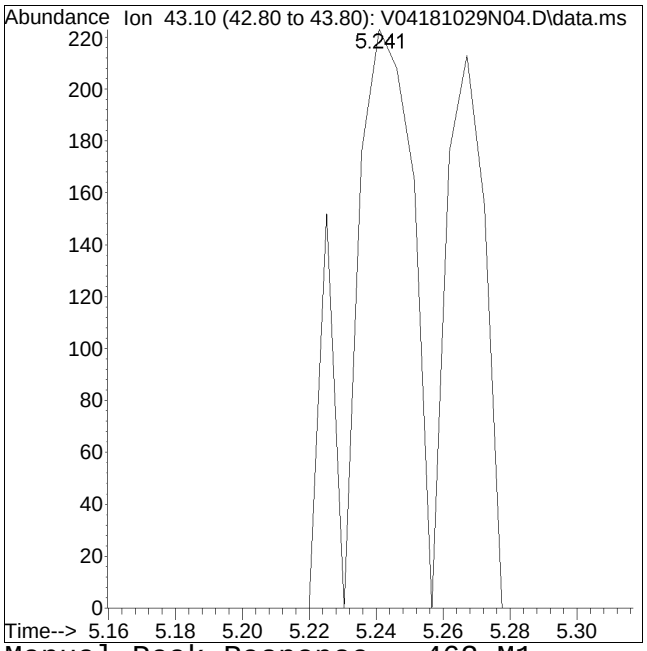
Manual Integration Report

Data Path : I:\VOLATILES\VOA104\2018\1QMethod : V104_181029N_8260.m
Data File : V04181029N04.D Operator : VOA104:JC
Date Inj'd : 10/29/2018 11:27 pm Instrument : VOA 104
Sample : I8260STDL1 Quant Date : 10/30/2018 9:35 am

Compound #39: 2-Butanone



Original Peak Response = 291



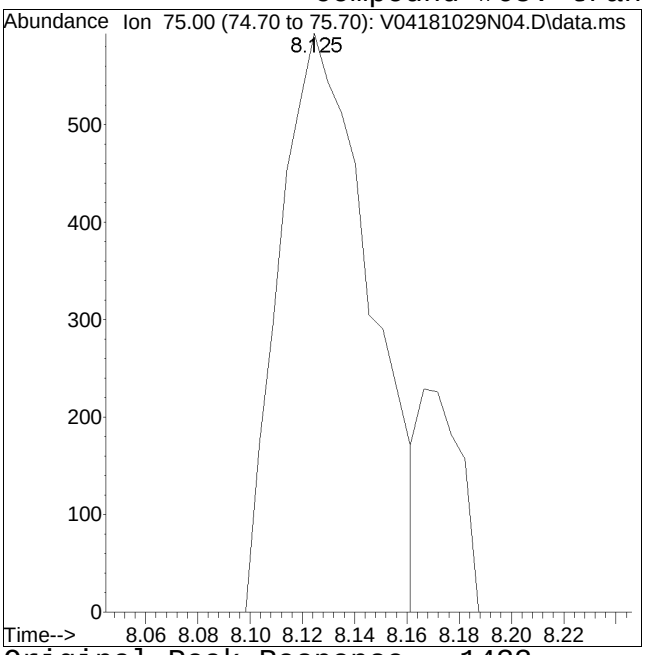
Manual Peak Response = 462 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

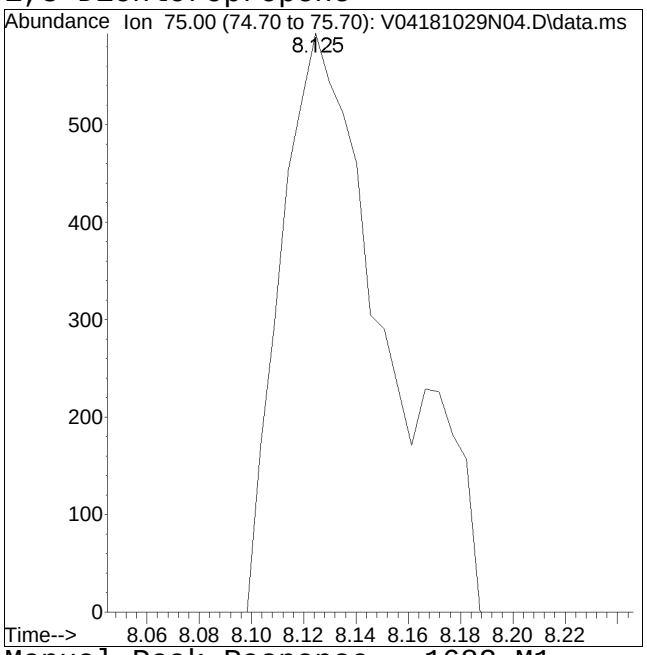
Manual Integration Report

Data Path : I:\VOLATILES\VOA104\2018\1QMethod : V104_181029N_8260.m
Data File : V04181029N04.D Operator : VOA104:JC
Date Inj'd : 10/29/2018 11:27 pm Instrument : VOA 104
Sample : I8260STDL1 Quant Date : 10/30/2018 9:35 am

Compound #65: trans-1,3-Dichloropropene



Original Peak Response = 1433



Manual Peak Response = 1682 M1

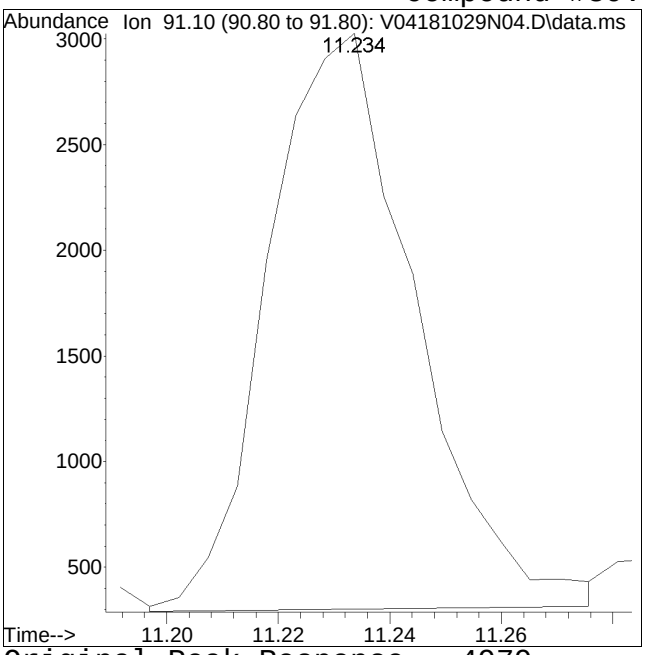
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

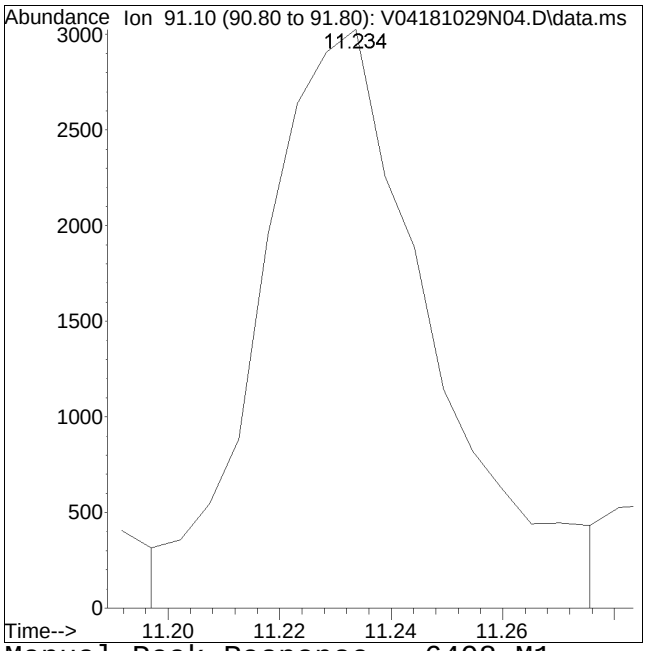
Manual Integration Report

Data Path : I:\VOLATILES\VOA104\2018\1Q
Data File : V04181029N04.D
Date Inj'd : 10/29/2018 11:27 pm
Sample : I8260STDL1

Method : V104_181029N_8260.m
Operator : VOA104:JC
Instrument : VOA 104
Quant Date : 10/30/2018 9:35 am

Compound #89: 2-Chlorotoluene





Original Peak Response = 4979 Manual Peak Response = 6408 M1

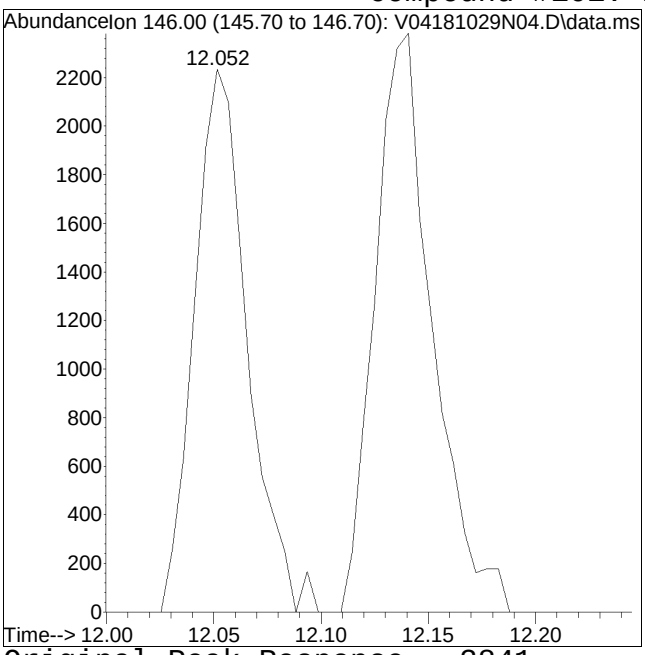
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

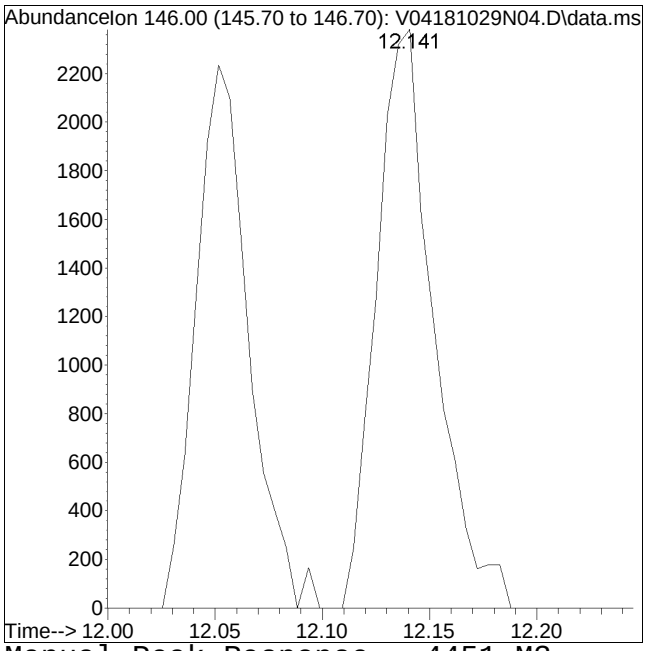
Data Path : I:\VOLATILES\VOA104\2018\1Q
Data File : V04181029N04.D
Date Inj'd : 10/29/2018 11:27 pm
Sample : I8260STDL1

Method : V104_181029N_8260.m
Operator : VOA104:JC
Instrument : VOA 104
Quant Date : 10/30/2018 9:35 am

Compound #101: 1,4-Dichlorobenzene



Original Peak Response = 3841



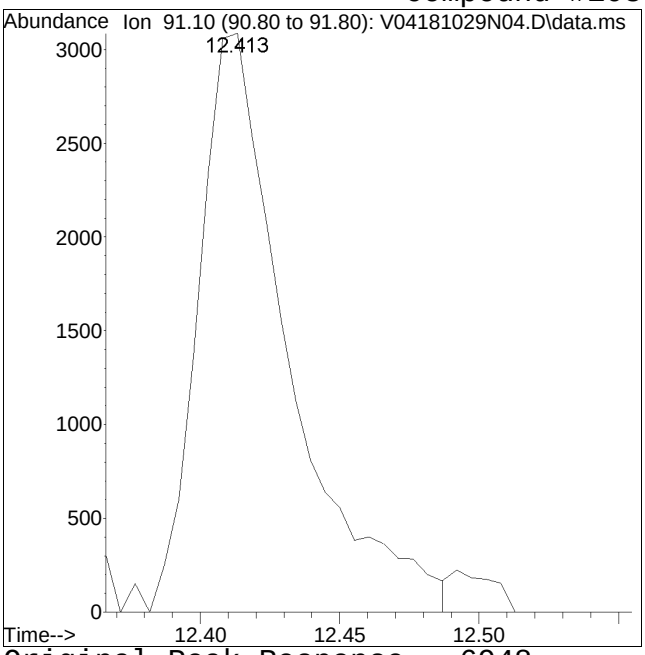
Manual Peak Response = 4451 M3

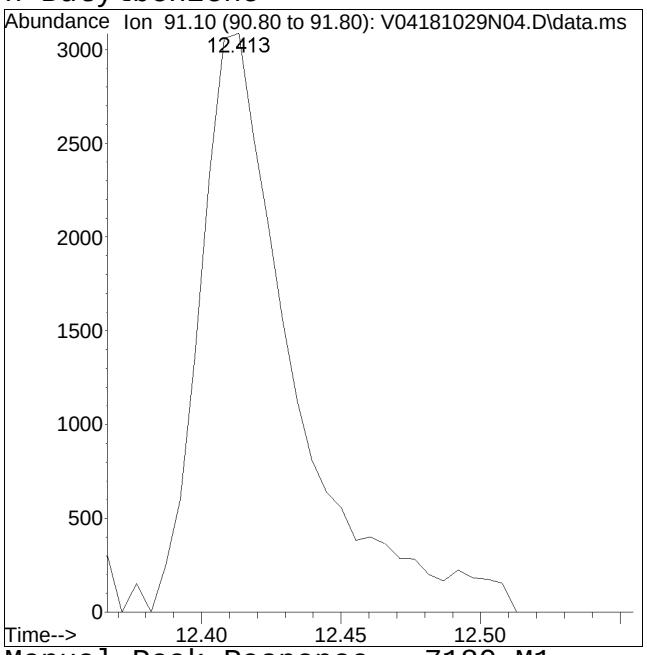
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\VOLATILES\VOA104\2018\1QMethod : V104_181029N_8260.m
Data File : V04181029N04.D Operator : VOA104:JC
Date Inj'd : 10/29/2018 11:27 pm Instrument : VOA 104
Sample : I8260STDL1 Quant Date : 10/30/2018 9:35 am

Compound #103: n-Butylbenzene





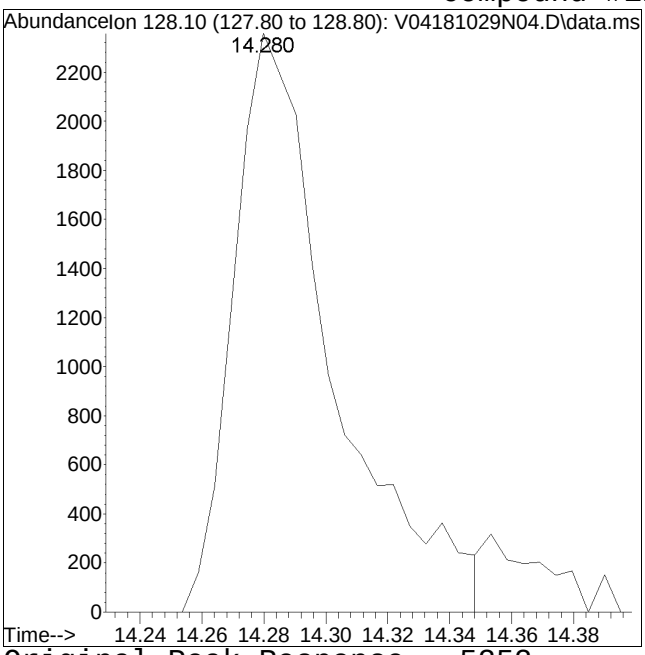
Original Peak Response = 6948 Manual Peak Response = 7180 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

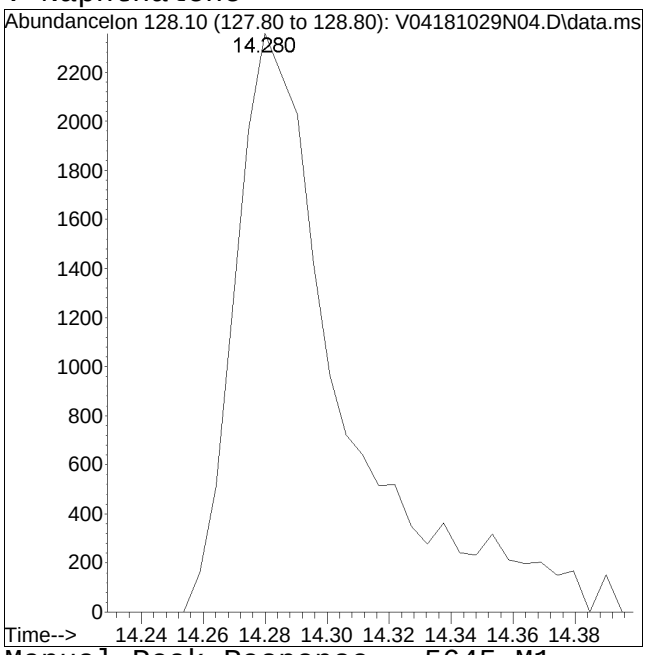
Data Path : I:\VOLATILES\VOA104\2018\1Q
Data File : V04181029N04.D
Date Inj'd : 10/29/2018 11:27 pm
Sample : I8260STDL1

Method : V104_181029N_8260.m
Operator : VOA104:JC
Instrument : VOA 104
Quant Date : 10/30/2018 9:35 am

Compound #110: Naphthalene



Original Peak Response = 5252



Manual Peak Response = 5645 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2018\181029N\
Data File : V04181029N05.D
Acq On : 29 Oct 2018 11:54 pm
Operator : VOA104:JC
Sample : I8260STDL1.5
Misc : WG1173809,ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 30 09:36:07 2018
Quant Method : I:\VOLATILES\VOA104\2018\181029N\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 30 09:25:47 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2018\181029N\V04181029N07.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.875	96	134650	20.000	ug/L	0.00
Standard Area 1 = 137158			Recovery = 98.17%			
59) Chlorobenzene-d5	9.388	117	96706	20.000	ug/L	0.00
Standard Area 1 = 99217			Recovery = 97.47%			
79) 1,4-Dichlorobenzene-d4	12.120	152	48678	20.000	ug/L	0.00
Standard Area 1 = 50228			Recovery = 96.91%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.084	113	33475	19.527	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 97.64%			
43) 1,2-Dichloroethane-d4	5.603	65	38695	19.907	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 99.53%			
60) Toluene-d8	7.548	98	129418	20.179	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 100.90%			
83) 4-Bromofluorobenzene	10.903	95	46881	19.971	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 99.86%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.613	85	2665	1.722	ug/L	99
3) Chloromethane	1.791	50	6613	2.093	ug/L	97
4) Vinyl chloride	1.859	62	4410	1.917	ug/L	95
5) Bromomethane	2.158	94	2627	1.891	ug/L	94
6) Chloroethane	2.279	64	2239	2.160	ug/L	93
7) Trichlorofluoromethane	2.404	101	3042	1.782	ug/L	98
8) Ethyl ether	2.693	74	1318	2.117	ug/L	74
10) 1,1-Dichloroethene	2.871	96	2068	1.902	ug/L #	70
11) Carbon disulfide	2.897	76	7227	1.949	ug/L	95
12) Freon-113	2.902	101	1771	1.495	ug/L #	47
13) Iodomethane	3.002	142	454	5.378	ug/L #	42
14) Acrolein	3.201	56	411	1.209	ug/L	88
15) Methylene chloride	3.416	84	4975	2.465	ug/L #	71
17) Acetone	3.484	43	1358	2.278	ug/L	98
18) trans-1,2-Dichloroethene	3.563	96	3293	1.867	ug/L #	68
19) Methyl acetate	3.595	43	3416	2.047	ug/L #	74
20) Methyl tert-butyl ether	3.663	73	9107	1.960	ug/L #	79
21) tert-Butyl alcohol	3.783	59	2706	9.624	ug/L #	76
22) Diisopropyl ether	4.009	45	16331	1.963	ug/L	92
23) 1,1-Dichloroethane	4.135	63	8718	1.982	ug/L	93
24) Halothane	4.187	117	2530	1.906	ug/L	92

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2018\181029N\
Data File : V04181029N05.D
Acq On : 29 Oct 2018 11:54 pm
Operator : VOA104:JC
Sample : I8260STDL1.5
Misc : WG1173809,ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 30 09:36:07 2018
Quant Method : I:\VOLATILES\VOA104\2018\181029N\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 30 09:25:47 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2018\181029N\V04181029N07.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.208	53	1200	1.484	ug/L	#	87
26) Ethyl tert-butyl ether	4.349	59	15801	2.010	ug/L	#	59
27) Vinyl acetate	4.386	43	7451M1	1.792	ug/L		
28) cis-1,2-Dichloroethene	4.648	96	3804	1.935	ug/L	#	72
29) 2,2-Dichloropropane	4.737	77	4916	1.998	ug/L		93
30) Bromochloromethane	4.837	128	1832	1.945	ug/L	#	63
31) Cyclohexane	4.816	56	7625	1.785	ug/L		70
32) Chloroform	4.905	83	6437	2.014	ug/L		95
33) Ethyl acetate	5.036	43	3657	1.773	ug/L	#	73
34) Carbon tetrachloride	5.026	117	3967	1.808	ug/L		95
35) Tetrahydrofuran	5.073	42	1092	1.636	ug/L	#	40
37) 1,1,1-Trichloroethane	5.089	97	4903	1.899	ug/L		94
39) 2-Butanone	5.230	43	1628	1.603	ug/L	#	42
40) 1,1-Dichloropropene	5.215	75	4166	1.921	ug/L		98
41) Benzene	5.461	78	13978	1.991	ug/L		92
42) tert-Amyl methyl ether	5.566	73	9328	1.942	ug/L		90
44) 1,2-Dichloroethane	5.676	62	5363	1.923	ug/L		95
47) Methyl cyclohexane	6.022	83	4495	1.685	ug/L	#	55
48) Trichloroethene	6.053	95	3681	1.972	ug/L		95
50) Dibromomethane	6.499	93	1935	1.796	ug/L		95
51) 1,2-Dichloropropane	6.594	63	5051	1.909	ug/L	#	88
53) 2-Chloroethyl vinyl ether	7.301	63	1729	1.256	ug/L	#	83
54) Bromodichloromethane	6.677	83	4599	1.931	ug/L	#	97
57) 1,4-Dioxane	6.892	88	786M1	66.760	ug/L		
58) cis-1,3-Dichloropropene	7.359	75	5086	1.871	ug/L		96
61) Toluene	7.611	92	8760	2.030	ug/L		99
62) 4-Methyl-2-pentanone	8.072	58	1382	1.437	ug/L	#	79
63) Tetrachloroethene	8.051	166	3493	1.960	ug/L		96
65) trans-1,3-Dichloropropene	8.114	75	3820	1.881	ug/L		93
67) Ethyl methacrylate	8.303	69	2646	1.256	ug/L		77
68) 1,1,2-Trichloroethane	8.298	83	2583	1.960	ug/L		96
69) Chlorodibromomethane	8.502	129	3521	1.840	ug/L		95
70) 1,3-Dichloropropane	8.612	76	4824	1.926	ug/L		93
71) 1,2-Dibromoethane	8.780	107	2678	1.666	ug/L		98
72) 2-Hexanone	9.100	43	2052	1.359	ug/L	#	83
73) Chlorobenzene	9.409	112	10131	2.035	ug/L		92
74) Ethylbenzene	9.451	91	16261	1.974	ug/L		98
75) 1,1,1,2-Tetrachloroethane	9.493	131	3436	1.929	ug/L		90
76) p/m Xylene	9.634	106	12187	3.933	ug/L		87
77) o Xylene	10.180	106	12520	4.102	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2018\181029N\
Data File : V04181029N05.D
Acq On : 29 Oct 2018 11:54 pm
Operator : VOA104:JC
Sample : I8260STDL1.5
Misc : WG1173809,ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 30 09:36:07 2018
Quant Method : I:\VOLATILES\VOA104\2018\181029N\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 30 09:25:47 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2018\181029N\V04181029N07.D
Sub List : 8260-Curve - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
78)	Styrene	10.253	104	19802	3.972	ug/L		100
80)	Bromoform	10.279	173	2074	1.746	ug/L		97
82)	Isopropylbenzene	10.568	105	16251	2.001	ug/L		100
84)	Bromobenzene	11.013	156	4044	1.920	ug/L		98
85)	n-Propylbenzene	11.055	91	19355	2.022	ug/L		95
86)	1,4-Dichlorobutane	11.087	55	7951	1.968	ug/L	#	86
87)	1,1,2,2-Tetrachloroethane	11.160	83	4313	2.109	ug/L		93
88)	4-Ethyltoluene	11.181	105	15303	1.954	ug/L		99
89)	2-Chlorotoluene	11.228	91	11582M1	1.976	ug/L		
90)	1,3,5-Trimethylbenzene	11.281	105	14172	2.036	ug/L		98
91)	1,2,3-Trichloropropane	11.297	75	3131	2.009	ug/L		87
92)	trans-1,4-Dichloro-2-b...	11.380	53	875	1.240	ug/L	#	78
93)	4-Chlorotoluene	11.417	91	11721	1.994	ug/L		98
94)	tert-Butylbenzene	11.622	119	11342	1.991	ug/L		99
97)	1,2,4-Trimethylbenzene	11.705	105	13787	2.003	ug/L		97
98)	sec-Butylbenzene	11.816	105	18068	2.055	ug/L		94
99)	p-Isopropyltoluene	11.968	119	14743	2.019	ug/L		97
100)	1,3-Dichlorobenzene	12.052	146	7437	1.907	ug/L		98
101)	1,4-Dichlorobenzene	12.135	146	8397	2.038	ug/L		95
102)	p-Diethylbenzene	12.350	119	8181	1.930	ug/L		98
103)	n-Butylbenzene	12.408	91	13534	1.992	ug/L		97
104)	1,2-Dichlorobenzene	12.565	146	7310	1.954	ug/L		99
105)	1,2,4,5-Tetramethylben...	13.142	119	13383	1.958	ug/L		96
106)	1,2-Dibromo-3-chloropr...	13.352	155	434	1.987	ug/L		83
107)	1,3,5-Trichlorobenzene	13.378	180	5283	1.968	ug/L		96
108)	Hexachlorobutadiene	13.944	225	2593	2.126	ug/L		92
109)	1,2,4-Trichlorobenzene	13.981	180	4742	1.871	ug/L		95
110)	Naphthalene	14.275	128	11668	1.827	ug/L		100
111)	1,2,3-Trichlorobenzene	14.442	180	4838	1.993	ug/L		95

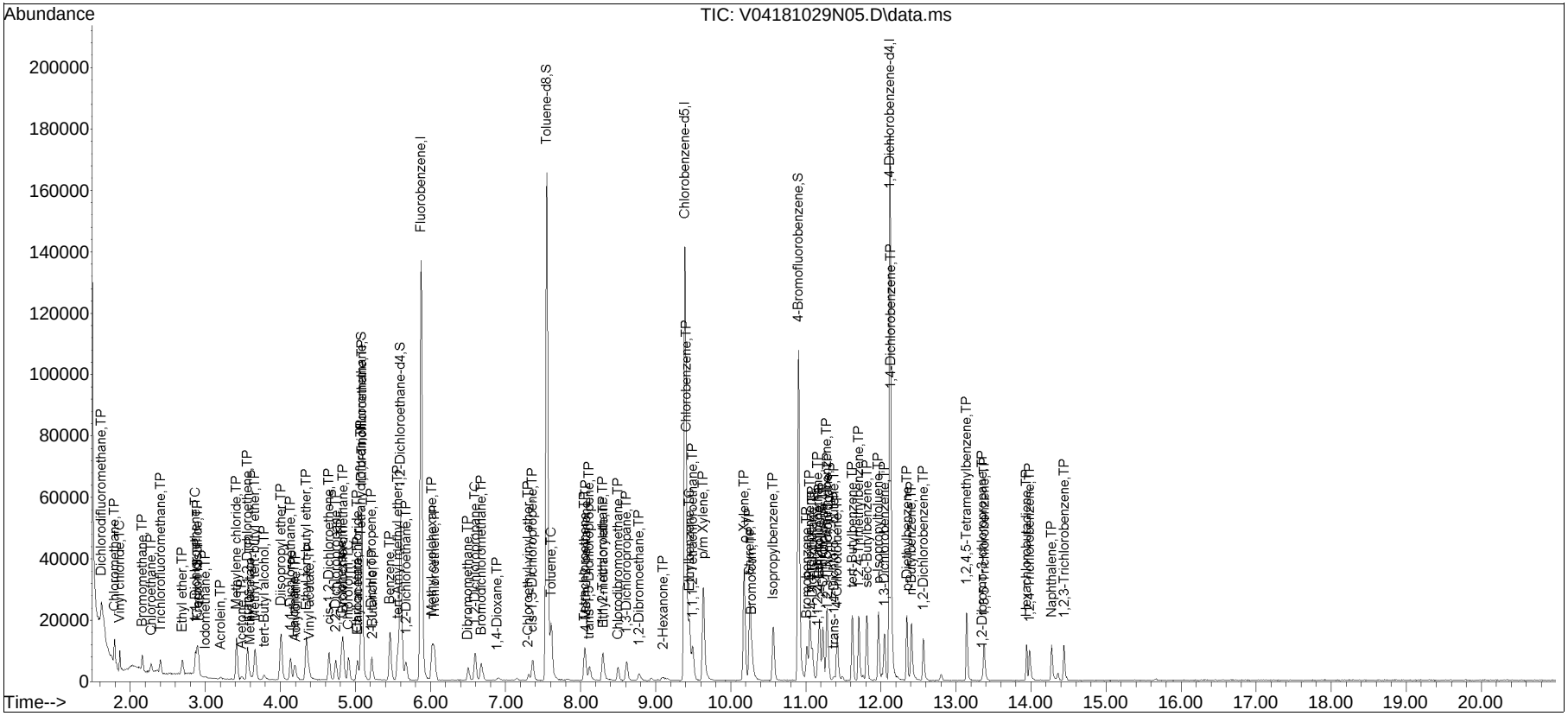
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2018\181029N\
Data File : V04181029N05.D
Acq On : 29 Oct 2018 11:54 pm
Operator : VOA104:JC
Sample : I8260STDL1.5
Misc : WG1173809,ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 30 09:36:07 2018
Quant Method : I:\VOLATILES\VOA104\2018\181029N\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 30 09:25:47 2018
Response via : Initial Calibration

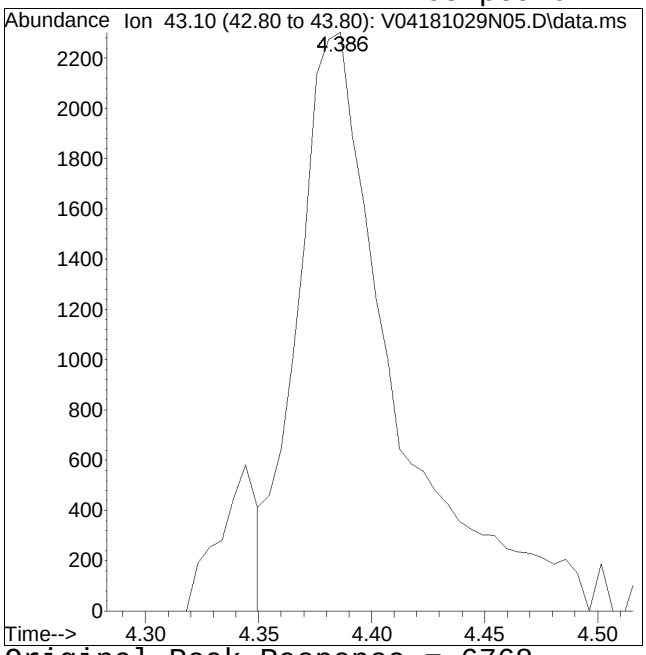
Sub List : 8260-Curve - Megamix plus Diox81029N\V04181029N07.D•

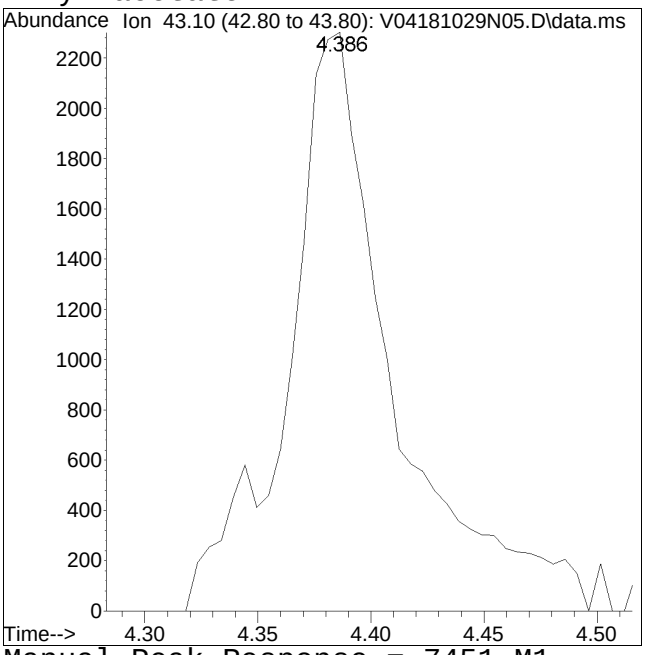


Manual Integration Report

Data Path : I:\VOLATILES\VOA104\2018\1QMethod : V104_181029N_8260.m
Data File : V04181029N05.D Operator : VOA104:JC
Date Inj'd : 10/29/2018 11:54 pm Instrument : VOA 104
Sample : I8260STDL1.5 Quant Date : 10/30/2018 9:36 am

Compound #27: Vinyl acetate





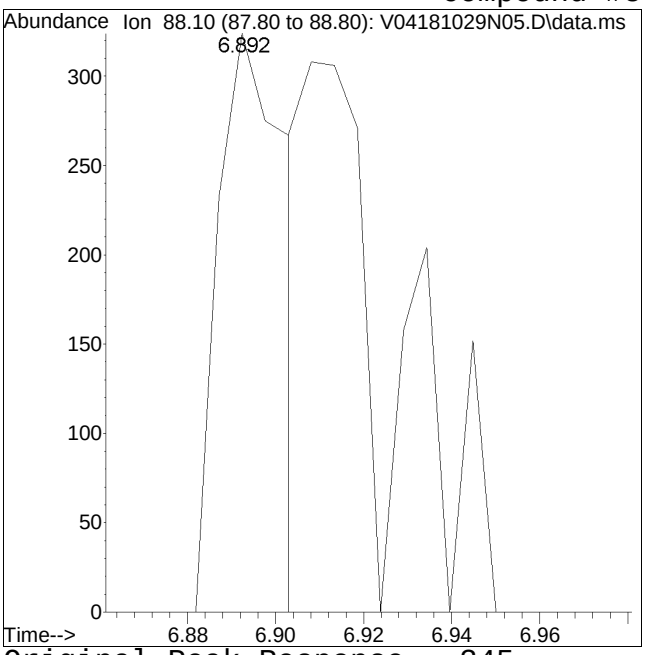
Original Peak Response = 6768 Manual Peak Response = 7451 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

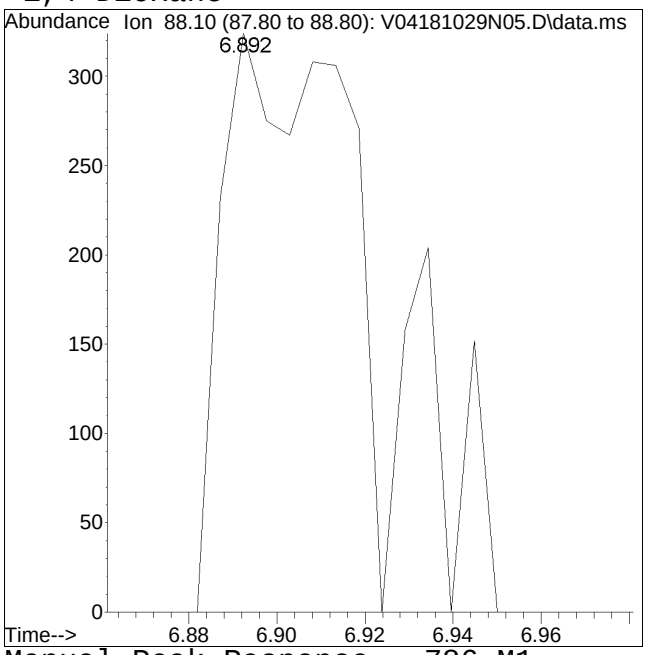
Data Path : I:\VOLATILES\VOA104\2018\1Q
Data File : V04181029N05.D
Date Inj'd : 10/29/2018 11:54 pm
Sample : I8260STDL1.5

Method : V104_181029N_8260.m
Operator : VOA104:JC
Instrument : VOA 104
Quant Date : 10/30/2018 9:36 am

Compound #57: 1,4-Dioxane



Original Peak Response = 345



Manual Peak Response = 786 M1

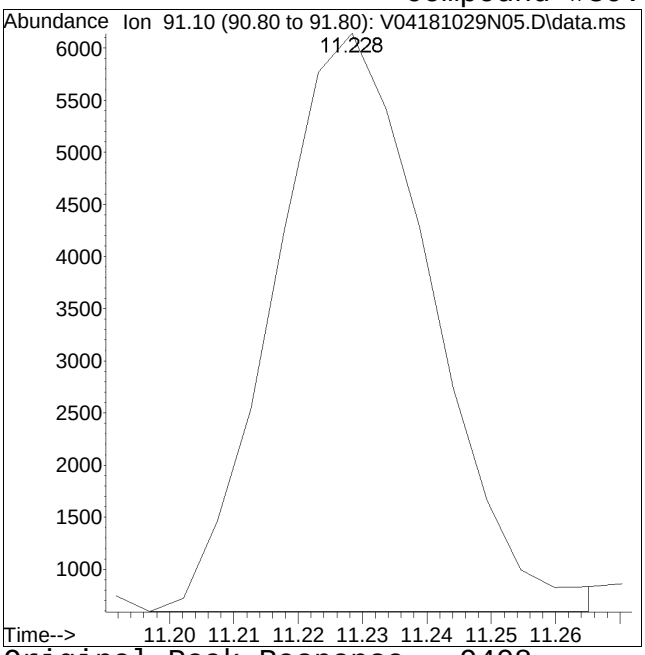
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

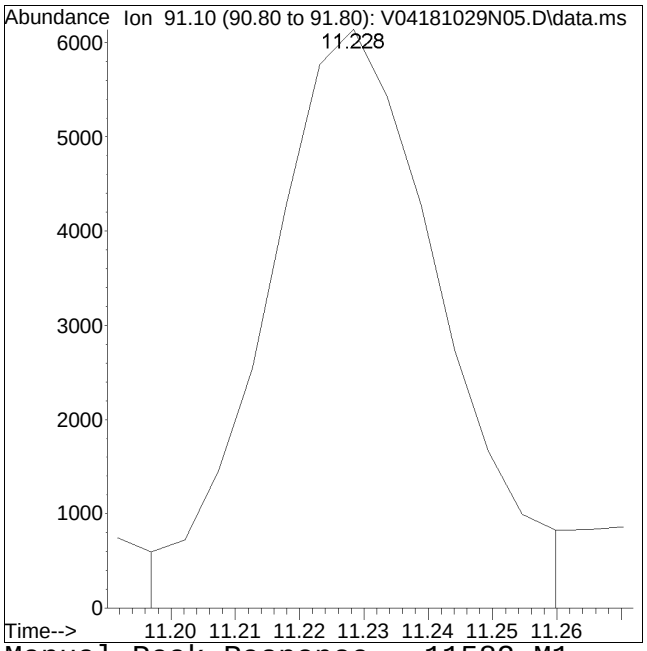
Manual Integration Report

Data Path : I:\VOLATILES\VOA104\2018\1Q
Data File : V04181029N05.D
Date Inj'd : 10/29/2018 11:54 pm
Sample : I8260STDL1.5

Method : V104_181029N_8260.m
Operator : VOA104:JC
Instrument : VOA 104
Quant Date : 10/30/2018 9:36 am

Compound #89: 2-Chlorotoluene





Original Peak Response = 9408 Manual Peak Response = 11582 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2018\181029N\
Data File : V04181029N06.D
Acq On : 30 Oct 2018 12:21 am
Operator : VOA104:JC
Sample : I8260STDL2
Misc : WG1173809,ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 30 09:36:14 2018
Quant Method : I:\VOLATILES\VOA104\2018\181029N\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 30 09:25:47 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2018\181029N\V04181029N07.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.875	96	138466	20.000	ug/L	0.00
Standard Area 1 = 137158			Recovery = 100.95%			
59) Chlorobenzene-d5	9.393	117	99617	20.000	ug/L	0.00
Standard Area 1 = 99217			Recovery = 100.40%			
79) 1,4-Dichlorobenzene-d4	12.120	152	50283	20.000	ug/L	0.00
Standard Area 1 = 50228			Recovery = 100.11%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.084	113	34529	19.587	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 97.93%			
43) 1,2-Dichloroethane-d4	5.603	65	39628	19.825	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 99.13%			
60) Toluene-d8	7.548	98	132583	20.068	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 100.34%			
83) 4-Bromofluorobenzene	10.903	95	47825	19.722	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 98.61%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.613	85	6638	4.170	ug/L	98
3) Chloromethane	1.791	50	13811	4.250	ug/L	99
4) Vinyl chloride	1.859	62	9591	4.054	ug/L	98
5) Bromomethane	2.158	94	5066	4.415	ug/L	97
6) Chloroethane	2.273	64	4382	4.112	ug/L	99
7) Trichlorofluoromethane	2.399	101	7447	4.242	ug/L	100
8) Ethyl ether	2.693	74	2465	3.850	ug/L #	61
10) 1,1-Dichloroethene	2.866	96	4604	4.117	ug/L #	72
11) Carbon disulfide	2.897	76	15508	4.067	ug/L	98
12) Freon-113	2.897	101	5296	4.348	ug/L	94
13) Iodomethane	3.013	142	1062	5.735	ug/L #	89
14) Acrolein	3.201	56	1230	3.519	ug/L	96
15) Methylene chloride	3.416	84	8795	4.237	ug/L #	69
17) Acetone	3.479	43	2996	4.887	ug/L	99
18) trans-1,2-Dichloroethene	3.563	96	7137	3.935	ug/L	73
19) Methyl acetate	3.589	43	6921	4.034	ug/L #	77
20) Methyl tert-butyl ether	3.663	73	18786	3.932	ug/L #	83
21) tert-Butyl alcohol	3.783	59	6366	22.017	ug/L #	88
22) Diisopropyl ether	4.009	45	34634	4.047	ug/L	91
23) 1,1-Dichloroethane	4.135	63	18139	4.010	ug/L	95
24) Halothane	4.187	117	5488	4.020	ug/L	97

Data Path : I:\VOLATILES\VOA104\2018\181029N\
Data File : V04181029N06.D
Acq On : 30 Oct 2018 12:21 am
Operator : VOA104:JC
Sample : I8260STDL2
Misc : WG1173809,ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 30 09:36:14 2018
Quant Method : I:\VOLATILES\VOA104\2018\181029N\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 30 09:25:47 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2018\181029N\V04181029N07.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.208	53	3010	3.619	ug/L	#	90
26) Ethyl tert-butyl ether	4.350	59	32452	4.015	ug/L		89
27) Vinyl acetate	4.376	43	16942M1	3.963	ug/L		
28) cis-1,2-Dichloroethene	4.648	96	7976	3.946	ug/L	#	72
29) 2,2-Dichloropropane	4.738	77	10326	4.081	ug/L		94
30) Bromochloromethane	4.837	128	3833	3.957	ug/L	#	65
31) Cyclohexane	4.821	56	18522	4.217	ug/L		72
32) Chloroform	4.911	83	13131	3.996	ug/L		97
33) Ethyl acetate	5.031	43	8261M1	3.894	ug/L		
34) Carbon tetrachloride	5.026	117	9172	4.065	ug/L		99
35) Tetrahydrofuran	5.068	42	3000	4.371	ug/L	#	73
37) 1,1,1-Trichloroethane	5.094	97	10801	4.069	ug/L		93
39) 2-Butanone	5.225	43	4839M1	4.633	ug/L		
40) 1,1-Dichloropropene	5.220	75	9100	4.081	ug/L		98
41) Benzene	5.461	78	29150	4.038	ug/L	#	92
42) tert-Amyl methyl ether	5.566	73	19544	3.957	ug/L		90
44) 1,2-Dichloroethane	5.671	62	11527	4.019	ug/L		98
47) Methyl cyclohexane	6.027	83	11783	4.295	ug/L	#	61
48) Trichloroethene	6.048	95	7756	4.040	ug/L		99
50) Dibromomethane	6.499	93	4304	3.885	ug/L		95
51) 1,2-Dichloropropane	6.599	63	10789	3.964	ug/L	#	92
53) 2-Chloroethyl vinyl ether	7.296	63	4463	3.153	ug/L	#	93
54) Bromodichloromethane	6.667	83	9658	3.944	ug/L	#	97
57) 1,4-Dioxane	6.892	88	3261	196.028	ug/L	#	66
58) cis-1,3-Dichloropropene	7.359	75	10827	3.873	ug/L		93
61) Toluene	7.606	92	18117	4.076	ug/L		100
62) 4-Methyl-2-pentanone	8.062	58	3552	3.585	ug/L	#	97
63) Tetrachloroethene	8.056	166	7870	4.287	ug/L		97
65) trans-1,3-Dichloropropene	8.114	75	8856	3.788	ug/L		94
67) Ethyl methacrylate	8.298	69	7625M1	3.514	ug/L		
68) 1,1,2-Trichloroethane	8.287	83	5566	4.100	ug/L		97
69) Chlorodibromomethane	8.497	129	7552	3.831	ug/L		98
70) 1,3-Dichloropropane	8.612	76	10114	3.920	ug/L		98
71) 1,2-Dibromoethane	8.769	107	6087	3.677	ug/L		99
72) 2-Hexanone	9.079	43	5068	3.258	ug/L		97
73) Chlorobenzene	9.409	112	20788	4.054	ug/L		95
74) Ethylbenzene	9.446	91	34859	4.108	ug/L		99
75) 1,1,1,2-Tetrachloroethane	9.493	131	7624	4.154	ug/L		96
76) p/m Xylene	9.635	106	26721	8.372	ug/L		96
77) o Xylene	10.180	106	26063	8.290	ug/L		95

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2018\181029N\
Data File : V04181029N06.D
Acq On : 30 Oct 2018 12:21 am
Operator : VOA104:JC
Sample : I8260STDL2
Misc : WG1173809,ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 30 09:36:14 2018
Quant Method : I:\VOLATILES\VOA104\2018\181029N\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 30 09:25:47 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2018\181029N\V04181029N07.D
Sub List : 8260-Curve - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
78)	Styrene	10.253	104	41994	8.177	ug/L		99
80)	Bromoform	10.279	173	4682	3.815	ug/L		97
82)	Isopropylbenzene	10.563	105	35104	4.185	ug/L		99
84)	Bromobenzene	11.019	156	8736	4.014	ug/L		98
85)	n-Propylbenzene	11.050	91	41030	4.149	ug/L		97
86)	1,4-Dichlorobutane	11.087	55	16847	4.036	ug/L	#	88
87)	1,1,2,2-Tetrachloroethane	11.160	83	8464	4.007	ug/L		97
88)	4-Ethyltoluene	11.181	105	33388	4.127	ug/L		100
89)	2-Chlorotoluene	11.228	91	24500	4.047	ug/L		99
90)	1,3,5-Trimethylbenzene	11.281	105	30046	4.179	ug/L		99
91)	1,2,3-Trichloropropane	11.297	75	6638	4.123	ug/L		94
92)	trans-1,4-Dichloro-2-b...	11.370	53	2235	3.067	ug/L	#	84
93)	4-Chlorotoluene	11.412	91	24202	3.986	ug/L		100
94)	tert-Butylbenzene	11.622	119	24777	4.210	ug/L		98
97)	1,2,4-Trimethylbenzene	11.706	105	29121	4.095	ug/L		99
98)	sec-Butylbenzene	11.810	105	39207	4.316	ug/L		96
99)	p-Isopropyltoluene	11.968	119	31411	4.164	ug/L		98
100)	1,3-Dichlorobenzene	12.046	146	16515	4.100	ug/L		99
101)	1,4-Dichlorobenzene	12.135	146	17803	4.182	ug/L		98
102)	p-Diethylbenzene	12.345	119	18221	4.162	ug/L		97
103)	n-Butylbenzene	12.403	91	29717	4.235	ug/L		98
104)	1,2-Dichlorobenzene	12.565	146	15726	4.068	ug/L		99
105)	1,2,4,5-Tetramethylben...	13.142	119	28478	4.034	ug/L		98
106)	1,2-Dibromo-3-chloropr...	13.352	155	1066	3.672	ug/L		86
107)	1,3,5-Trichlorobenzene	13.373	180	11464	4.135	ug/L		98
108)	Hexachlorobutadiene	13.939	225	5396	4.283	ug/L		95
109)	1,2,4-Trichlorobenzene	13.976	180	10658	4.072	ug/L		96
110)	Naphthalene	14.269	128	26374	3.997	ug/L		100
111)	1,2,3-Trichlorobenzene	14.437	180	10108	4.032	ug/L		98

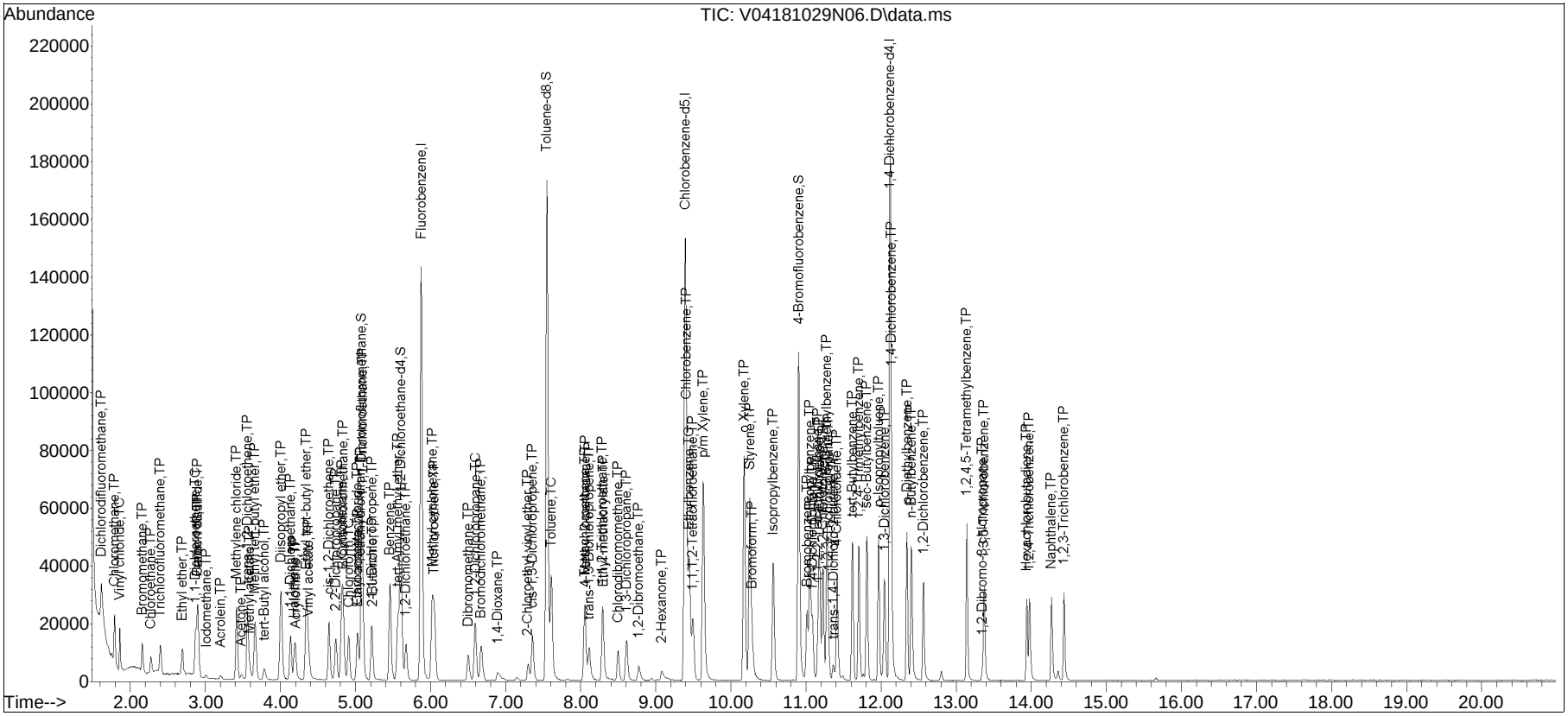
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2018\181029N\
Data File : V04181029N06.D
Acq On : 30 Oct 2018 12:21 am
Operator : VOA104:JC
Sample : I8260STDL2
Misc : WG1173809,ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 30 09:36:14 2018
Quant Method : I:\VOLATILES\VOA104\2018\181029N\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 30 09:25:47 2018
Response via : Initial Calibration

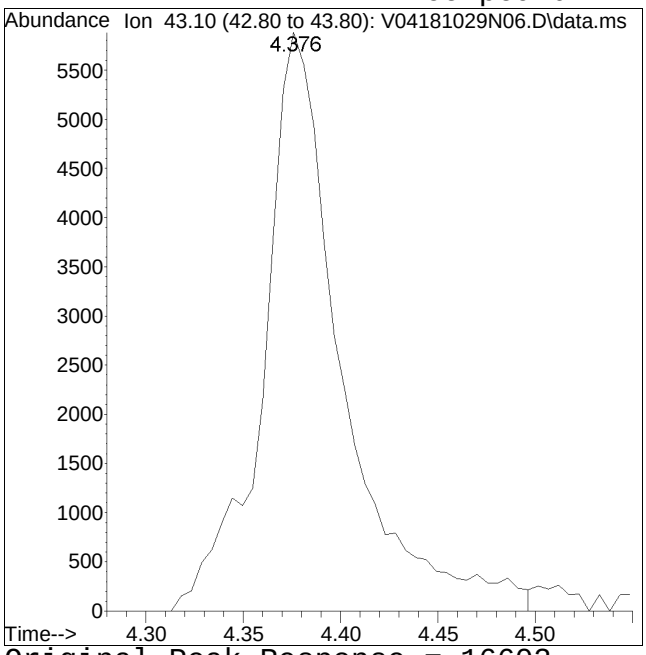
Sub List : 8260-Curve - Megamix plus Diox81029N\V04181029N07.D•

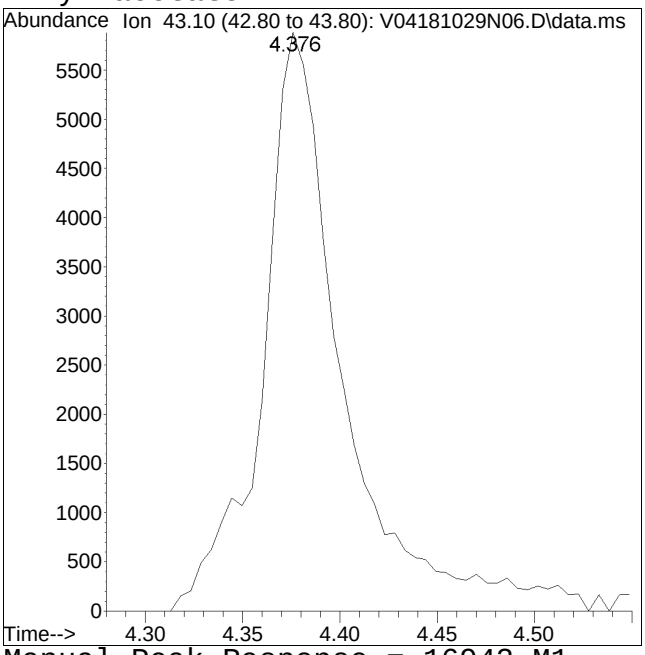


Manual Integration Report

Data Path : I:\VOLATILES\VOA104\2018\1QMethod : V104_181029N_8260.m
Data File : V04181029N06.D Operator : VOA104:JC
Date Inj'd : 10/30/2018 12:21 am Instrument : VOA 104
Sample : I8260STDL2 Quant Date : 10/30/2018 9:36 am

Compound #27: Vinyl acetate





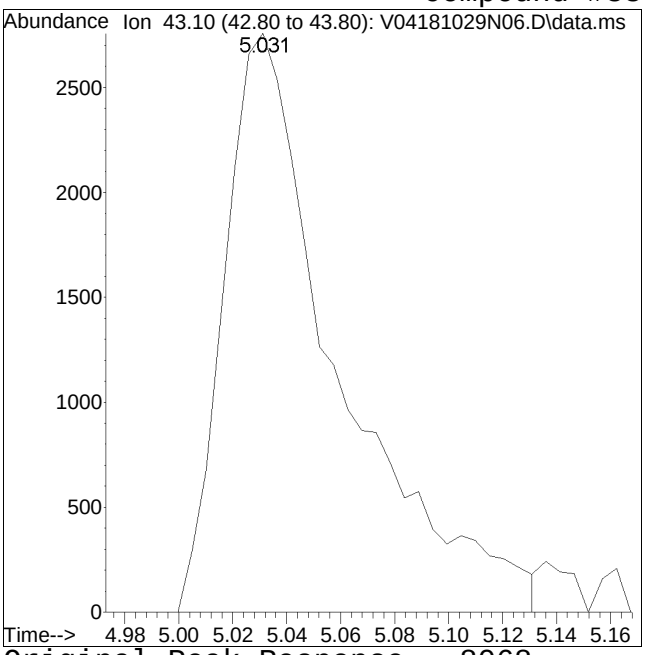
Original Peak Response = 16602 Manual Peak Response = 16942 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

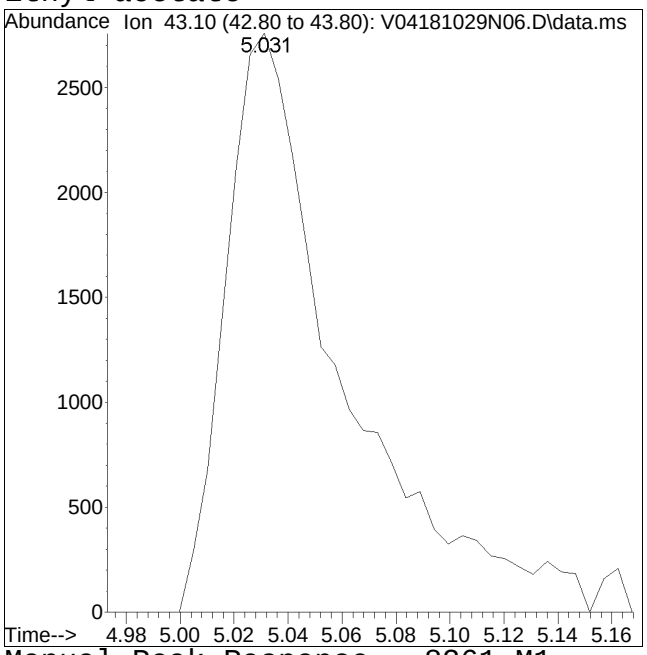
Data Path : I:\VOLATILES\VOA104\2018\1Q
Data File : V04181029N06.D
Date Inj'd : 10/30/2018 12:21 am
Sample : I8260STDL2

Method : V104_181029N_8260.m
Operator : VOA104:JC
Instrument : VOA 104
Quant Date : 10/30/2018 9:36 am

Compound #33: Ethyl acetate



Original Peak Response = 8068



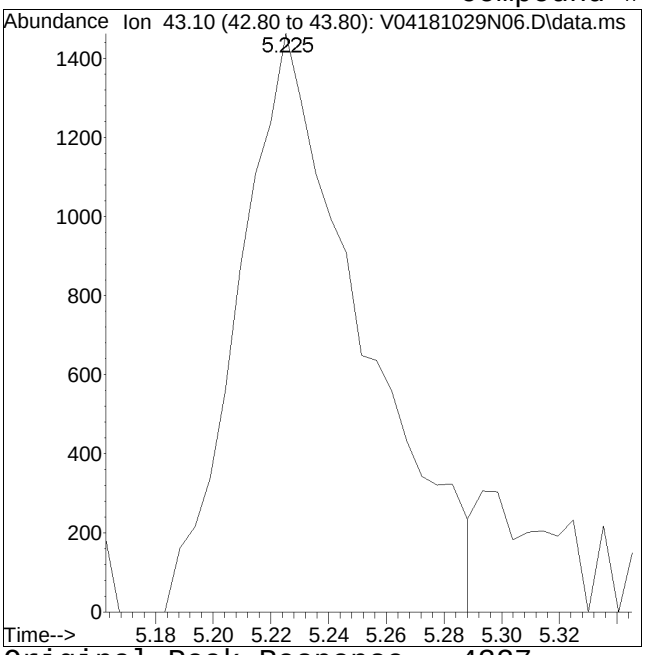
Manual Peak Response = 8261 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

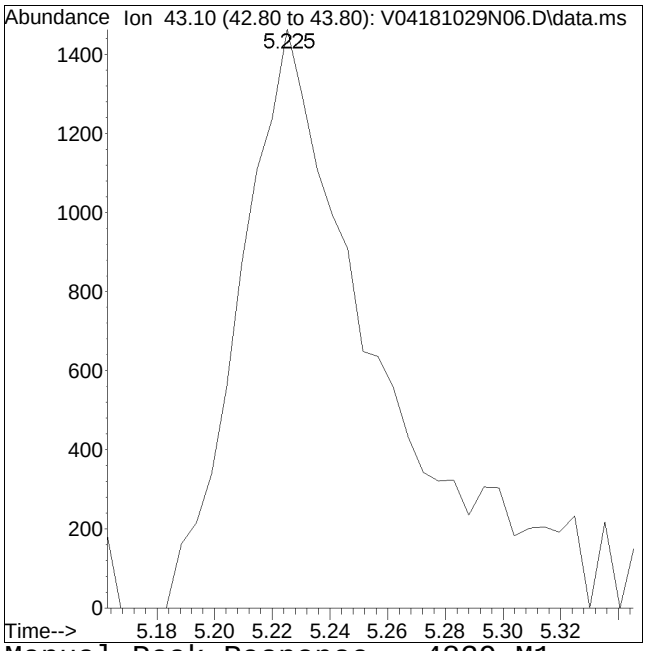
Manual Integration Report

Data Path : I:\VOLATILES\VOA104\2018\1QMethod : V104_181029N_8260.m
Data File : V04181029N06.D Operator : VOA104:JC
Date Inj'd : 10/30/2018 12:21 am Instrument : VOA 104
Sample : I8260STDL2 Quant Date : 10/30/2018 9:36 am

Compound #39: 2-Butanone



Original Peak Response = 4327



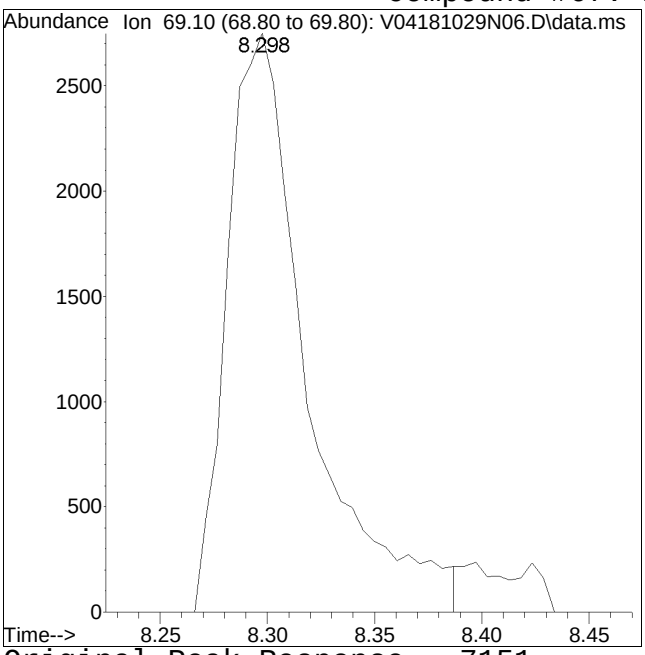
Manual Peak Response = 4839 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

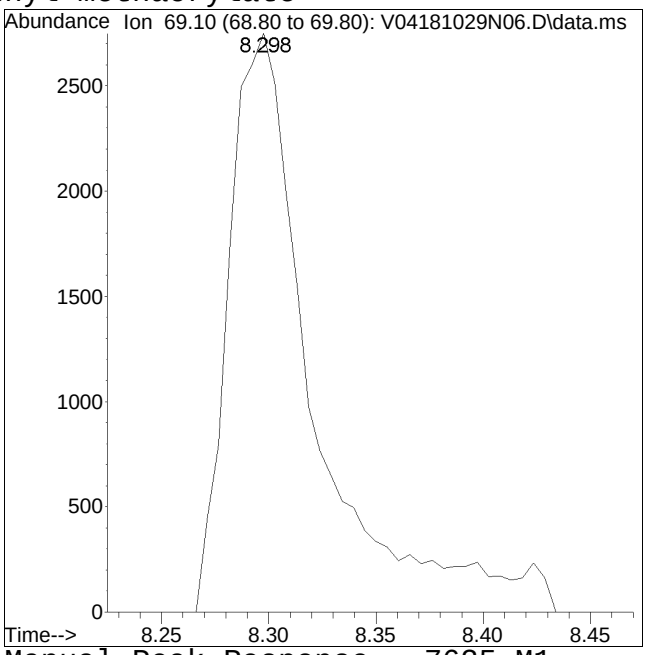
Manual Integration Report

Data Path : I:\VOLATILES\VOA104\2018\1QMethod : V104_181029N_8260.m
Data File : V04181029N06.D Operator : VOA104:JC
Date Inj'd : 10/30/2018 12:21 am Instrument : VOA 104
Sample : I8260STDL2 Quant Date : 10/30/2018 9:36 am

Compound #67: Ethyl methacrylate



Original Peak Response = 7151



Manual Peak Response = 7625 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2018\181029N\
Data File : V04181029N07.D
Acq On : 30 Oct 2018 12:49 am
Operator : VOA104:JC
Sample : I8260STDL3
Misc : WG1173809,ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 30 09:36:21 2018
Quant Method : I:\VOLATILES\VOA104\2018\181029N\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 30 09:25:47 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2018\181029N\V04181029N07.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.875	96	137158	20.000	ug/L	0.00
Standard Area 1 = 137158			Recovery = 100.00%			
59) Chlorobenzene-d5	9.388	117	99217	20.000	ug/L	0.00
Standard Area 1 = 99217			Recovery = 100.00%			
79) 1,4-Dichlorobenzene-d4	12.120	152	50228	20.000	ug/L	0.00
Standard Area 1 = 50228			Recovery = 100.00%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.084	113	34791	19.924	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 99.62%			
43) 1,2-Dichloroethane-d4	5.603	65	39207	19.802	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 99.01%			
60) Toluene-d8	7.548	98	131397	19.969	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 99.84%			
83) 4-Bromofluorobenzene	10.898	95	48208	19.902	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 99.51%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.613	85	34285	21.745	ug/L	98
3) Chloromethane	1.791	50	67049	20.829	ug/L	98
4) Vinyl chloride	1.859	62	49989	21.332	ug/L	98
5) Bromomethane	2.158	94	22721	23.488	ug/L	97
6) Chloroethane	2.273	64	21087	19.975	ug/L	95
7) Trichlorofluoromethane	2.399	101	38450	22.111	ug/L	100
8) Ethyl ether	2.693	74	13422	21.163	ug/L #	66
10) 1,1-Dichloroethene	2.871	96	23336	21.068	ug/L #	67
11) Carbon disulfide	2.897	76	75661	20.031	ug/L	99
12) Freon-113	2.902	101	26434	21.910	ug/L	97
13) Iodomethane	3.007	142	15105M1	14.236	ug/L	
14) Acrolein	3.201	56	7306	21.100	ug/L	99
15) Methylene chloride	3.416	84	41698	20.280	ug/L #	70
17) Acetone	3.479	43	12393	20.407	ug/L #	84
18) trans-1,2-Dichloroethene	3.563	96	38985	21.697	ug/L	77
19) Methyl acetate	3.584	43	35482	20.877	ug/L #	91
20) Methyl tert-butyl ether	3.663	73	101260	21.395	ug/L #	88
21) tert-Butyl alcohol	3.783	59	31586	110.283	ug/L	96
22) Diisopropyl ether	4.003	45	183461	21.644	ug/L	92
23) 1,1-Dichloroethane	4.135	63	96419	21.520	ug/L	95
24) Halothane	4.192	117	29606	21.896	ug/L	99

Data Path : I:\VOLATILES\VOA104\2018\181029N\
Data File : V04181029N07.D
Acq On : 30 Oct 2018 12:49 am
Operator : VOA104:JC
Sample : I8260STDL3
Misc : WG1173809,ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 30 09:36:21 2018
Quant Method : I:\VOLATILES\VOA104\2018\181029N\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 30 09:25:47 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2018\181029N\V04181029N07.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.203	53	18457	22.401	ug/L		93
26) Ethyl tert-butyl ether	4.344	59	172431	21.536	ug/L		92
27) Vinyl acetate	4.370	43	97044	22.917	ug/L	#	96
28) cis-1,2-Dichloroethene	4.648	96	43757	21.853	ug/L	#	79
29) 2,2-Dichloropropane	4.737	77	53215	21.233	ug/L		94
30) Bromochloromethane	4.837	128	21086	21.976	ug/L	#	69
31) Cyclohexane	4.816	56	94928	21.817	ug/L		72
32) Chloroform	4.905	83	68677	21.096	ug/L		97
33) Ethyl acetate	5.021	43	48108	22.894	ug/L	#	95
34) Carbon tetrachloride	5.026	117	48141	21.542	ug/L		99
35) Tetrahydrofuran	5.063	42	15074M1	22.172	ug/L		
37) 1,1,1-Trichloroethane	5.094	97	56757	21.584	ug/L		95
39) 2-Butanone	5.209	43	24155M1	23.347	ug/L		
40) 1,1-Dichloropropene	5.215	75	48752	22.072	ug/L		100
41) Benzene	5.456	78	151652	21.206	ug/L	#	92
42) tert-Amyl methyl ether	5.566	73	105563	21.578	ug/L		90
44) 1,2-Dichloroethane	5.671	62	61021	21.481	ug/L		99
47) Methyl cyclohexane	6.022	83	59125	21.758	ug/L	#	61
48) Trichloroethene	6.048	95	41516	21.831	ug/L		99
50) Dibromomethane	6.494	93	24391	22.228	ug/L		96
51) 1,2-Dichloropropane	6.594	63	57775	21.432	ug/L	#	91
53) 2-Chloroethyl vinyl ether	7.291	63	29144	20.788	ug/L	#	96
54) Bromodichloromethane	6.672	83	53679	22.129	ug/L		100
57) 1,4-Dioxane	6.887	88	19783M1	1076.751	ug/L		
58) cis-1,3-Dichloropropene	7.354	75	62761	22.664	ug/L		96
61) Toluene	7.605	92	95002	21.458	ug/L		99
62) 4-Methyl-2-pentanone	8.051	58	22552	22.856	ug/L	#	85
63) Tetrachloroethene	8.051	166	40945	22.393	ug/L		99
65) trans-1,3-Dichloropropene	8.104	75	53464	21.156	ug/L		95
67) Ethyl methacrylate	8.282	69	46750	21.629	ug/L		98
68) 1,1,2-Trichloroethane	8.287	83	30155	22.304	ug/L		98
69) Chlorodibromomethane	8.492	129	42727	21.763	ug/L		98
70) 1,3-Dichloropropane	8.607	76	56786	22.099	ug/L		98
71) 1,2-Dibromoethane	8.764	107	35848	21.743	ug/L		99
72) 2-Hexanone	9.063	43	32977	21.284	ug/L		90
73) Chlorobenzene	9.409	112	109954	21.531	ug/L		99
74) Ethylbenzene	9.441	91	183687	21.734	ug/L		99
75) 1,1,1,2-Tetrachloroethane	9.493	131	40506	22.160	ug/L		98
76) p/m Xylene	9.629	106	141612	44.548	ug/L		98
77) o Xylene	10.175	106	138467	44.222	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2018\181029N\
Data File : V04181029N07.D
Acq On : 30 Oct 2018 12:49 am
Operator : VOA104:JC
Sample : I8260STDL3
Misc : WG1173809,ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 30 09:36:21 2018
Quant Method : I:\VOLATILES\VOA104\2018\181029N\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 30 09:25:47 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2018\181029N\V04181029N07.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
78) Styrene	10.248	104	229602	44.889	ug/L		99
80) Bromoform	10.279	173	26869	21.916	ug/L		99
82) Isopropylbenzene	10.563	105	178280	21.276	ug/L		100
84) Bromobenzene	11.008	156	47127	21.679	ug/L		97
85) n-Propylbenzene	11.050	91	211596	21.422	ug/L		98
86) 1,4-Dichlorobutane	11.082	55	89896	21.561	ug/L	#	91
87) 1,1,2,2-Tetrachloroethane	11.155	83	46788	22.177	ug/L		100
88) 4-Ethyltoluene	11.176	105	173762	21.501	ug/L		100
89) 2-Chlorotoluene	11.223	91	126646	20.943	ug/L		100
90) 1,3,5-Trimethylbenzene	11.276	105	151819	21.141	ug/L		99
91) 1,2,3-Trichloropropane	11.297	75	34675	21.562	ug/L		98
92) trans-1,4-Dichloro-2-b...	11.349	53	15714	21.586	ug/L	#	86
93) 4-Chlorotoluene	11.407	91	132677	21.875	ug/L		98
94) tert-Butylbenzene	11.616	119	125423	21.334	ug/L		99
97) 1,2,4-Trimethylbenzene	11.700	105	151901	21.382	ug/L		100
98) sec-Butylbenzene	11.810	105	193469	21.323	ug/L		97
99) p-Isopropyltoluene	11.968	119	161032	21.373	ug/L		99
100) 1,3-Dichlorobenzene	12.041	146	87191	21.670	ug/L		98
101) 1,4-Dichlorobenzene	12.135	146	87879	20.666	ug/L		98
102) p-Diethylbenzene	12.340	119	94135	21.526	ug/L		98
103) n-Butylbenzene	12.403	91	151817	21.659	ug/L		99
104) 1,2-Dichlorobenzene	12.560	146	83536	21.635	ug/L		99
105) 1,2,4,5-Tetramethylben...	13.142	119	152028	21.561	ug/L		98
106) 1,2-Dibromo-3-chloropr...	13.352	155	7375	20.909	ug/L		97
107) 1,3,5-Trichlorobenzene	13.373	180	60267	21.762	ug/L		99
108) Hexachlorobutadiene	13.944	225	26639	21.168	ug/L		99
109) 1,2,4-Trichlorobenzene	13.976	180	57767	22.093	ug/L		98
110) Naphthalene	14.264	128	144664	21.948	ug/L		100
111) 1,2,3-Trichlorobenzene	14.437	180	54752	21.864	ug/L		99

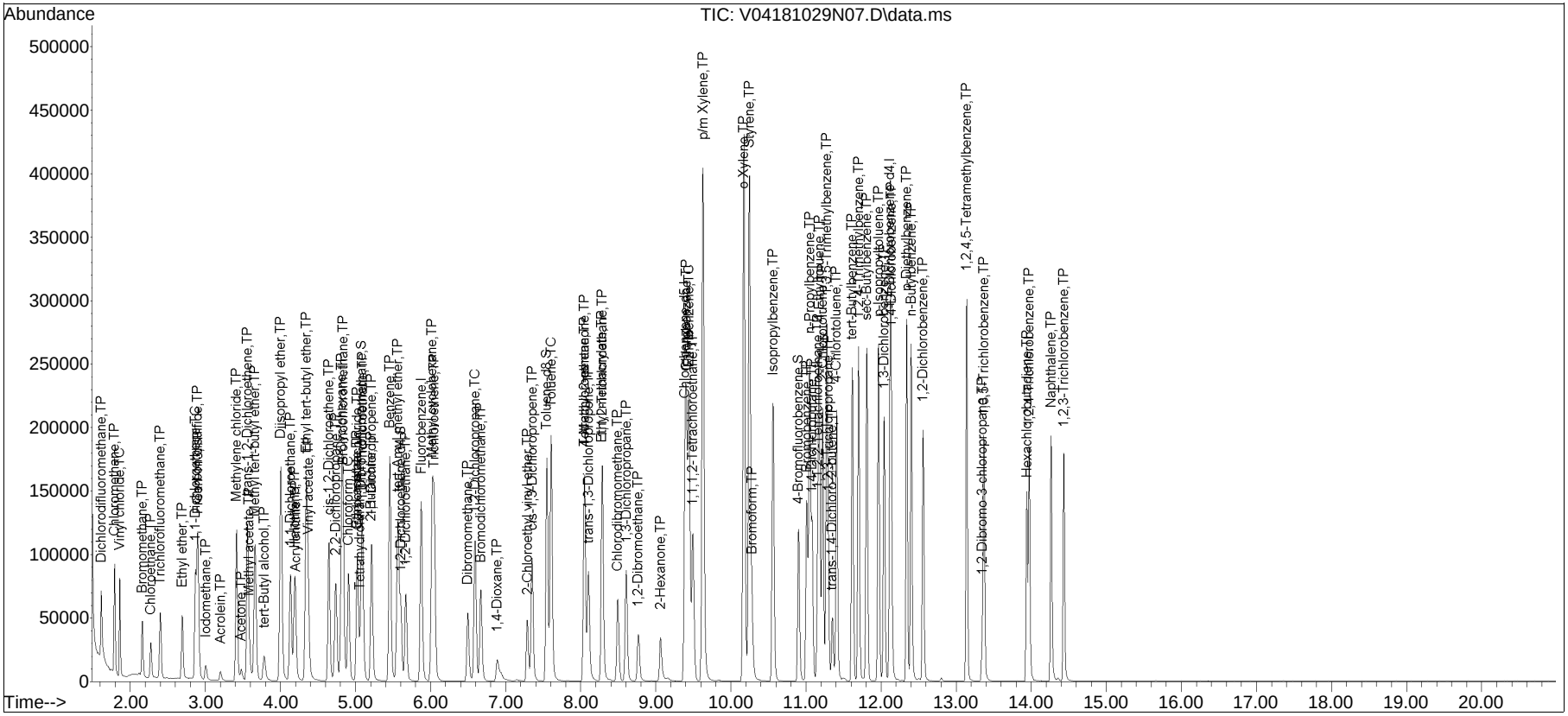
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2018\181029N\
Data File : V04181029N07.D
Acq On : 30 Oct 2018 12:49 am
Operator : VOA104:JC
Sample : I8260STDL3
Misc : WG1173809,ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 30 09:36:21 2018
Quant Method : I:\VOLATILES\VOA104\2018\181029N\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 30 09:25:47 2018
Response via : Initial Calibration

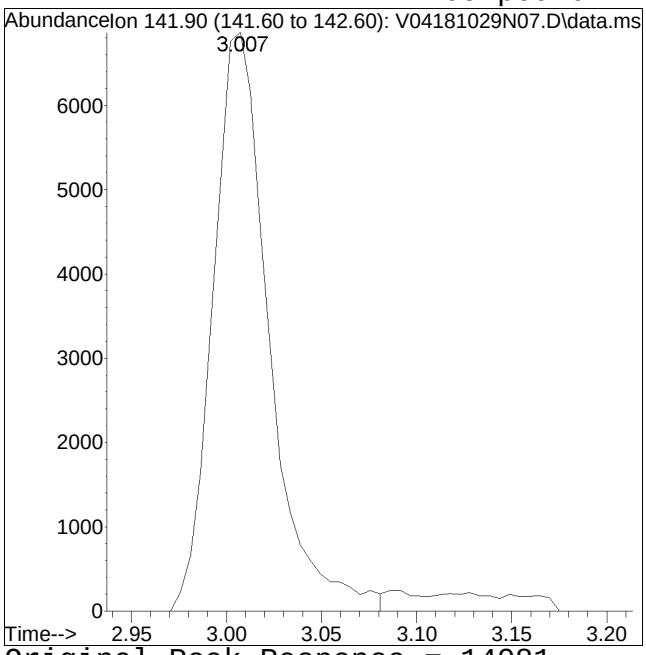
Sub List : 8260-Curve - Megamix plus Diox81029N\V04181029N07.D•

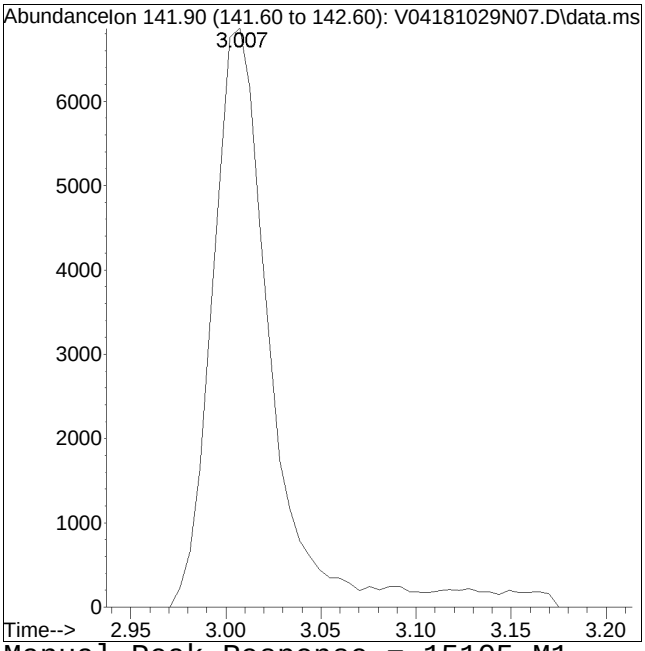


Manual Integration Report

Data Path : I:\VOLATILES\VOA104\2018\1QMethod : V104_181029N_8260.m
Data File : V04181029N07.D Operator : VOA104:JC
Date Inj'd : 10/30/2018 12:49 am Instrument : VOA 104
Sample : I8260STDL3 Quant Date : 10/30/2018 9:36 am

Compound #13: Iodomethane



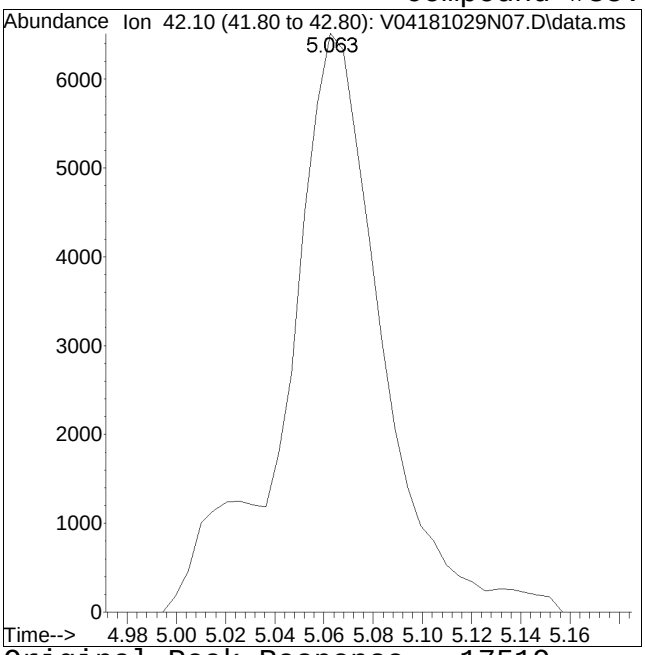


Original Peak Response = 14081 Manual Peak Response = 15105 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

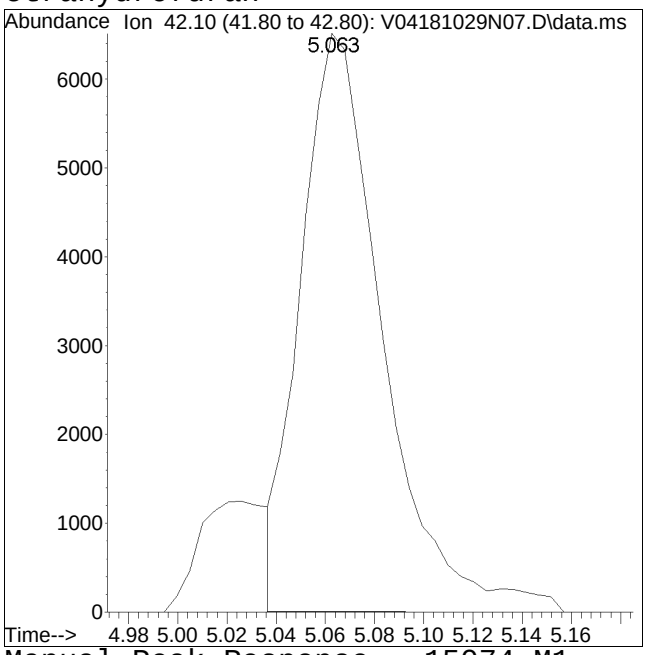
Manual Integration Report

Data Path : I:\VOLATILES\VOA104\2018\1QMethod : V104_181029N_8260.m
Data File : V04181029N07.D Operator : VOA104:JC
Date Inj'd : 10/30/2018 12:49 am Instrument : VOA 104
Sample : I8260STDL3 Quant Date : 10/30/2018 9:36 am

Compound #35: Tetrahydrofuran



Original Peak Response = 17519



Manual Peak Response = 15074 M1

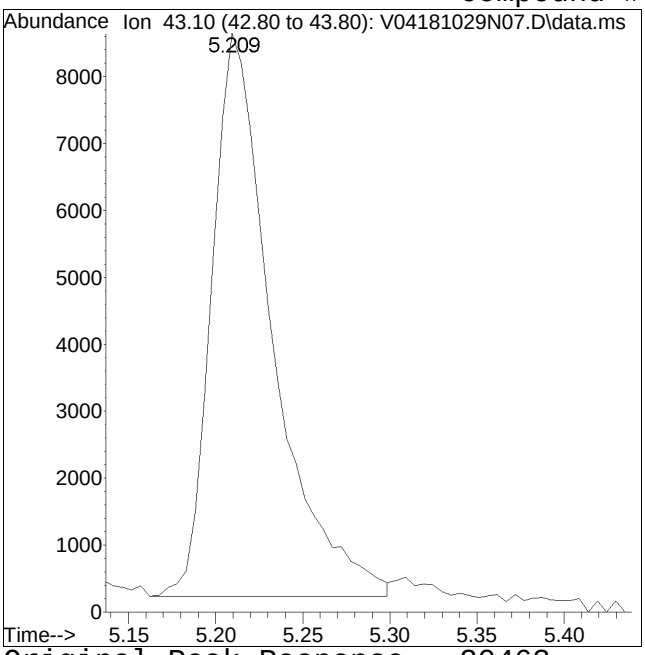
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

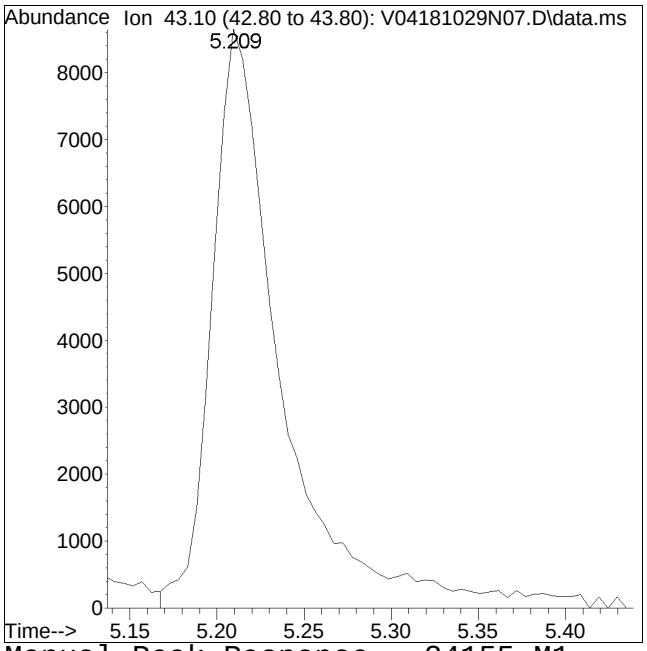
Data Path : I:\VOLATILES\VOA104\2018\1Q
Data File : V04181029N07.D
Date Inj'd : 10/30/2018 12:49 am
Sample : I8260STDL3

Method : V104_181029N_8260.m
Operator : VOA104:JC
Instrument : VOA 104
Quant Date : 10/30/2018 9:36 am

Compound #39: 2-Butanone



Original Peak Response = 20463



Manual Peak Response = 24155 M1

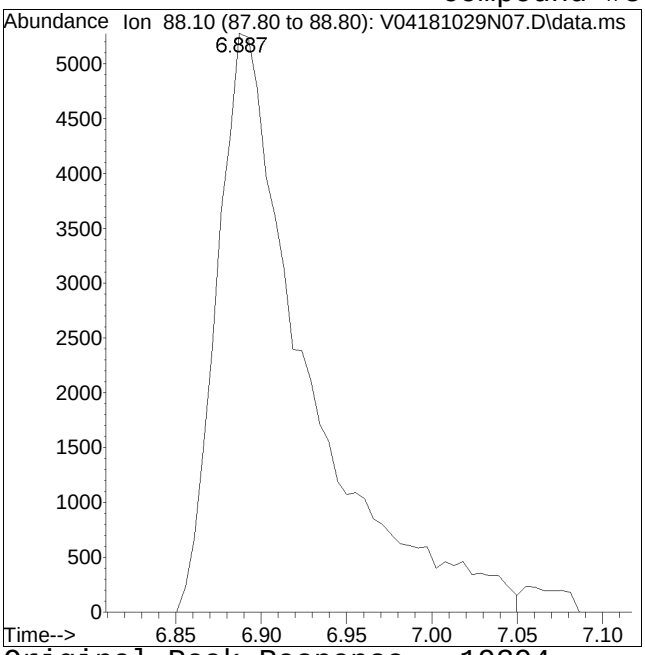
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

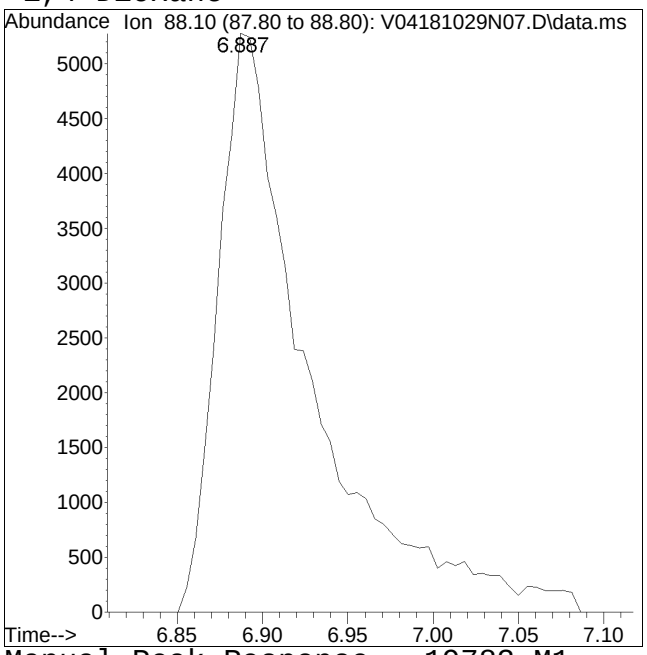
Data Path : I:\VOLATILES\VOA104\2018\1Q
Data File : V04181029N07.D
Date Inj'd : 10/30/2018 12:49 am
Sample : I8260STDL3

Method : V104_181029N_8260.m
Operator : VOA104:JC
Instrument : VOA 104
Quant Date : 10/30/2018 9:36 am

Compound #57: 1,4-Dioxane



Original Peak Response = 19394



Manual Peak Response = 19783 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2018\181029N\
Data File : V04181029N08.D
Acq On : 30 Oct 2018 1:16 am
Operator : VOA104:JC
Sample : I8260STDL4
Misc : WG1173809,ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 30 09:36:29 2018
Quant Method : I:\VOLATILES\VOA104\2018\181029N\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 30 09:25:47 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2018\181029N\V04181029N07.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.875	96	130966	20.000	ug/L	0.00
Standard Area 1 = 137158			Recovery = 95.49%			
59) Chlorobenzene-d5	9.388	117	96001	20.000	ug/L	0.00
Standard Area 1 = 99217			Recovery = 96.76%			
79) 1,4-Dichlorobenzene-d4	12.120	152	47625	20.000	ug/L	0.00
Standard Area 1 = 50228			Recovery = 94.82%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.084	113	34056	20.425	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 102.13%			
43) 1,2-Dichloroethane-d4	5.603	65	37545	19.859	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 99.30%			
60) Toluene-d8	7.548	98	126579	19.881	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 99.41%			
83) 4-Bromofluorobenzene	10.898	95	45857	19.966	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 99.83%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.613	85	65826	43.723	ug/L	98
3) Chloromethane	1.791	50	121826	39.636	ug/L	98
4) Vinyl chloride	1.859	62	94100	42.054	ug/L	96
5) Bromomethane	2.158	94	39568	43.654	ug/L	96
6) Chloroethane	2.273	64	39376	39.064	ug/L	93
7) Trichlorofluoromethane	2.399	101	74198	44.686	ug/L	100
8) Ethyl ether	2.693	74	25443	42.015	ug/L #	69
10) 1,1-Dichloroethene	2.866	96	45619	43.133	ug/L #	72
11) Carbon disulfide	2.892	76	139218	38.600	ug/L	99
12) Freon-113	2.902	101	49839	43.262	ug/L	99
13) Iodomethane	3.007	142	46132M1	34.323	ug/L	
14) Acrolein	3.201	56	14202	42.955	ug/L	97
15) Methylene chloride	3.416	84	78103	39.781	ug/L #	72
17) Acetone	3.479	43	23778	41.005	ug/L #	83
18) trans-1,2-Dichloroethene	3.558	96	73701	42.958	ug/L	77
19) Methyl acetate	3.584	43	67182	41.398	ug/L #	92
20) Methyl tert-butyl ether	3.663	73	192741	42.648	ug/L #	88
21) tert-Butyl alcohol	3.783	59	57207	209.182	ug/L	95
22) Diisopropyl ether	4.004	45	345816	42.727	ug/L	92
23) 1,1-Dichloroethane	4.135	63	180198	42.121	ug/L	96
24) Halothane	4.192	117	56357	43.651	ug/L	98

Data Path : I:\VOLATILES\VOA104\2018\181029N\
Data File : V04181029N08.D
Acq On : 30 Oct 2018 1:16 am
Operator : VOA104:JC
Sample : I8260STDL4
Misc : WG1173809,ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 30 09:36:29 2018
Quant Method : I:\VOLATILES\VOA104\2018\181029N\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 30 09:25:47 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2018\181029N\V04181029N07.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.198	53	35062	44.566	ug/L		94
26) Ethyl tert-butyl ether	4.344	59	326637	42.725	ug/L		90
27) Vinyl acetate	4.371	43	174879	43.250	ug/L		96
28) cis-1,2-Dichloroethene	4.643	96	81938	42.856	ug/L	#	78
29) 2,2-Dichloropropane	4.738	77	99702	41.662	ug/L		94
30) Bromochloromethane	4.837	128	38791	42.339	ug/L	#	69
31) Cyclohexane	4.816	56	181854	43.771	ug/L		72
32) Chloroform	4.905	83	129397	41.628	ug/L		97
33) Ethyl acetate	5.021	43	91736	45.721	ug/L	#	94
34) Carbon tetrachloride	5.026	117	94066	44.082	ug/L		99
35) Tetrahydrofuran	5.063	42	28764	44.309	ug/L		89
37) 1,1,1-Trichloroethane	5.094	97	107957	42.996	ug/L		95
39) 2-Butanone	5.209	43	41484	41.991	ug/L	#	87
40) 1,1-Dichloropropene	5.215	75	91784	43.519	ug/L		99
41) Benzene	5.456	78	285123	41.754	ug/L	#	91
42) tert-Amyl methyl ether	5.566	73	199490	42.706	ug/L		90
44) 1,2-Dichloroethane	5.671	62	114981	42.390	ug/L		99
47) Methyl cyclohexane	6.022	83	113689	43.815	ug/L	#	60
48) Trichloroethene	6.048	95	78894	43.448	ug/L		99
50) Dibromomethane	6.494	93	46113	44.011	ug/L		95
51) 1,2-Dichloropropane	6.588	63	109110	42.388	ug/L	#	91
53) 2-Chloroethyl vinyl ether	7.286	63	57825	43.197	ug/L	#	96
54) Bromodichloromethane	6.667	83	101500	43.821	ug/L		99
57) 1,4-Dioxane	6.892	88	39864M1	2245.479	ug/L		
58) cis-1,3-Dichloropropene	7.349	75	120815	45.692	ug/L		97
61) Toluene	7.606	92	178815	41.743	ug/L		100
62) 4-Methyl-2-pentanone	8.051	58	43243	45.293	ug/L	#	83
63) Tetrachloroethene	8.046	166	78222	44.213	ug/L		99
65) trans-1,3-Dichloropropene	8.104	75	103362	41.916	ug/L		97
67) Ethyl methacrylate	8.282	69	88801	42.460	ug/L		98
68) 1,1,2-Trichloroethane	8.287	83	56384	43.101	ug/L		100
69) Chlorodibromomethane	8.492	129	82974	43.678	ug/L		99
70) 1,3-Dichloropropane	8.607	76	107836	43.372	ug/L		99
71) 1,2-Dibromoethane	8.764	107	69961	43.856	ug/L		100
72) 2-Hexanone	9.058	43	65241	43.519	ug/L		90
73) Chlorobenzene	9.409	112	206402	41.770	ug/L		100
74) Ethylbenzene	9.441	91	344521	42.130	ug/L		99
75) 1,1,1,2-Tetrachloroethane	9.493	131	77407	43.766	ug/L		98
76) p/m Xylene	9.629	106	264129	85.872	ug/L		97
77) o Xylene	10.175	106	256819	84.767	ug/L		96

Data Path : I:\VOLATILES\VOA104\2018\181029N\
Data File : V04181029N08.D
Acq On : 30 Oct 2018 1:16 am
Operator : VOA104:JC
Sample : I8260STDL4
Misc : WG1173809,ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 30 09:36:29 2018
Quant Method : I:\VOLATILES\VOA104\2018\181029N\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 30 09:25:47 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2018\181029N\V04181029N07.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
78) Styrene	10.248	104	432630	87.416	ug/L		99
80) Bromoform	10.279	173	52597	45.246	ug/L		100
82) Isopropylbenzene	10.563	105	335021	42.167	ug/L		100
84) Bromobenzene	11.008	156	88827	43.095	ug/L		99
85) n-Propylbenzene	11.050	91	398544	42.555	ug/L		98
86) 1,4-Dichlorobutane	11.082	55	170831	43.212	ug/L		91
87) 1,1,2,2-Tetrachloroethane	11.155	83	87872	43.927	ug/L		99
88) 4-Ethyltoluene	11.176	105	330180	43.089	ug/L		99
89) 2-Chlorotoluene	11.223	91	239082	41.696	ug/L		100
90) 1,3,5-Trimethylbenzene	11.276	105	287578	42.235	ug/L		99
91) 1,2,3-Trichloropropane	11.291	75	64614	42.375	ug/L		98
92) trans-1,4-Dichloro-2-b...	11.349	53	31204	45.208	ug/L	#	88
93) 4-Chlorotoluene	11.407	91	241551	42.003	ug/L		100
94) tert-Butylbenzene	11.616	119	237531	42.612	ug/L		99
97) 1,2,4-Trimethylbenzene	11.700	105	286434	42.524	ug/L		100
98) sec-Butylbenzene	11.810	105	362260	42.108	ug/L		98
99) p-Isopropyltoluene	11.968	119	305712	42.793	ug/L		99
100) 1,3-Dichlorobenzene	12.041	146	163973	42.981	ug/L		99
101) 1,4-Dichlorobenzene	12.135	146	168129	41.698	ug/L		98
102) p-Diethylbenzene	12.340	119	180232	43.466	ug/L		98
103) n-Butylbenzene	12.403	91	283207	42.612	ug/L		98
104) 1,2-Dichlorobenzene	12.560	146	158411	43.270	ug/L		98
105) 1,2,4,5-Tetramethylben...	13.142	119	289645	43.324	ug/L		98
106) 1,2-Dibromo-3-chloropr...	13.347	155	14441	42.366	ug/L		99
107) 1,3,5-Trichlorobenzene	13.368	180	114308	43.531	ug/L		99
108) Hexachlorobutadiene	13.944	225	50196	42.067	ug/L		99
109) 1,2,4-Trichlorobenzene	13.971	180	109013	43.970	ug/L		99
110) Naphthalene	14.264	128	276034	44.168	ug/L		100
111) 1,2,3-Trichlorobenzene	14.432	180	103363	43.531	ug/L		99

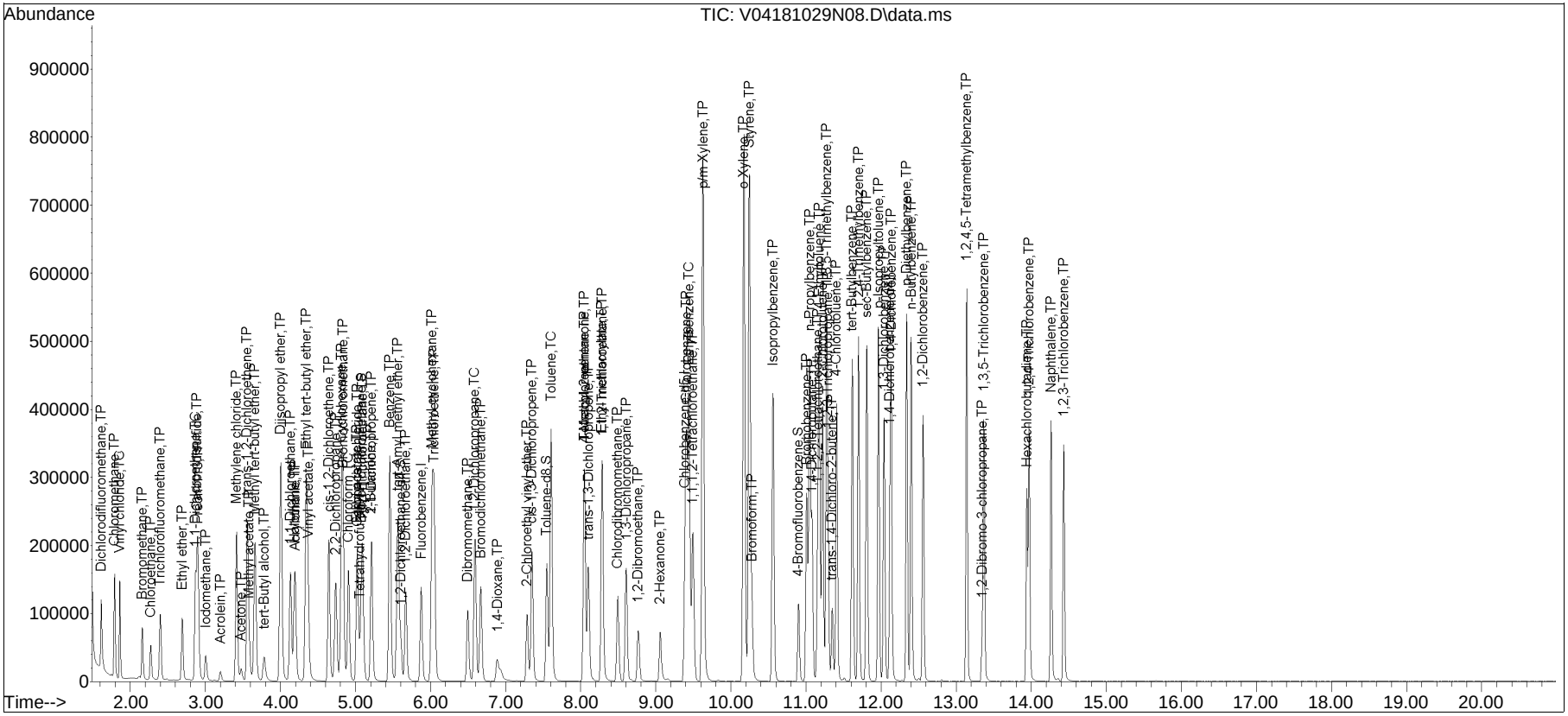
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2018\181029N\
Data File : V04181029N08.D
Acq On : 30 Oct 2018 1:16 am
Operator : VOA104:JC
Sample : I8260STDL4
Misc : WG1173809,ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 30 09:36:29 2018
Quant Method : I:\VOLATILES\VOA104\2018\181029N\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 30 09:25:47 2018
Response via : Initial Calibration

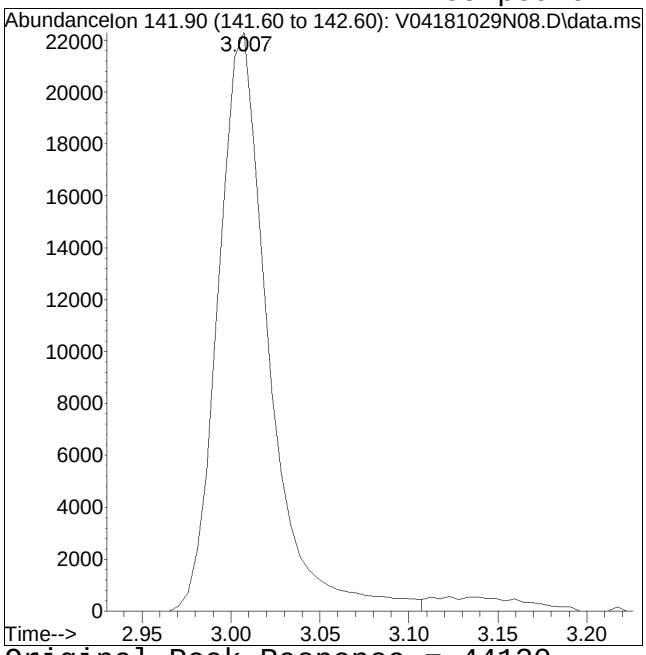
Sub List : 8260-Curve - Megamix plus Diox81029N\V04181029N07.D•



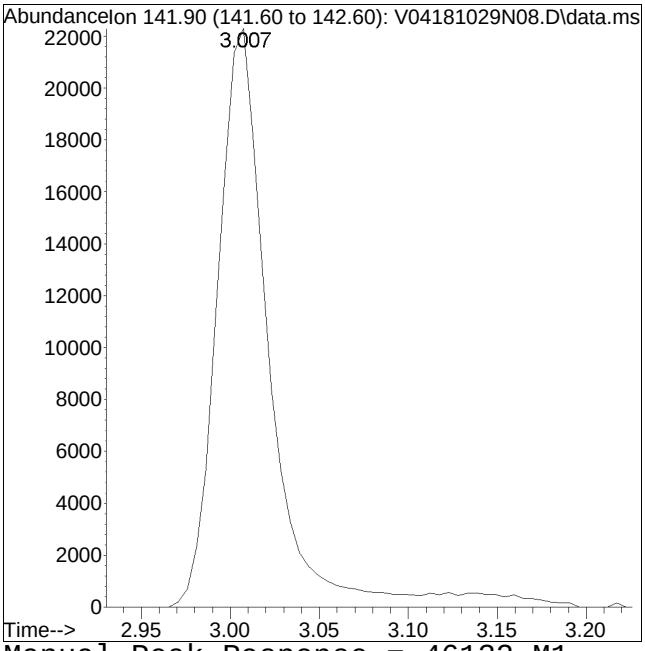
Manual Integration Report

Data Path : I:\VOLATILES\VOA104\2018\1QMethod : V104_181029N_8260.m
Data File : V04181029N08.D Operator : VOA104:JC
Date Inj'd : 10/30/2018 1:16 am Instrument : VOA 104
Sample : I8260STDL4 Quant Date : 10/30/2018 9:36 am

Compound #13: Iodomethane



Original Peak Response = 44130



Manual Peak Response = 46132 M1

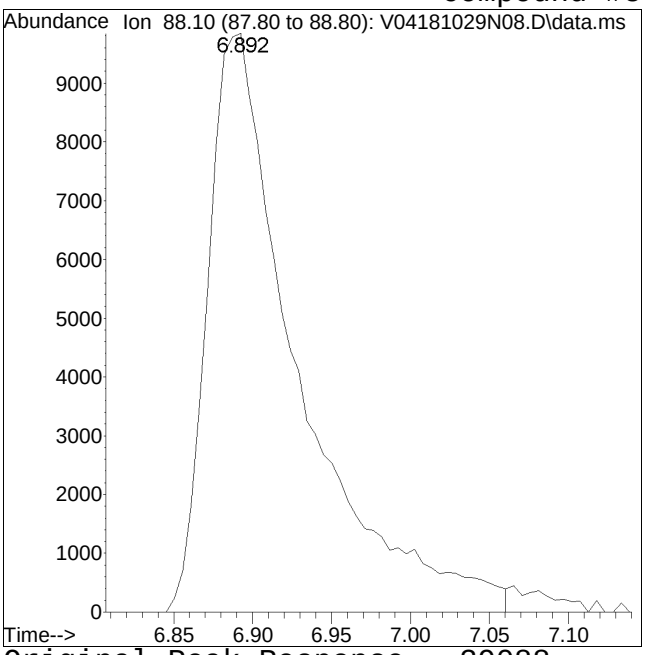
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

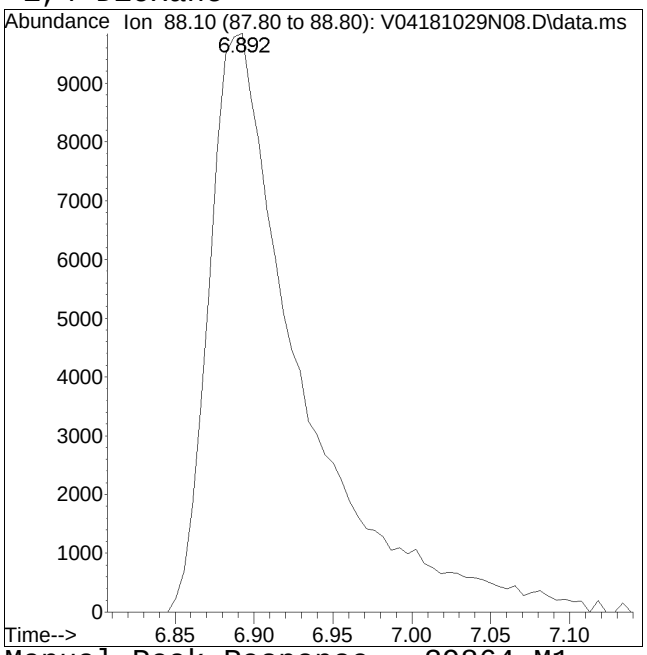
Data Path : I:\VOLATILES\VOA104\2018\1Q
Data File : V04181029N08.D
Date Inj'd : 10/30/2018 1:16 am
Sample : I8260STDL4

Method : V104_181029N_8260.m
Operator : VOA104:JC
Instrument : VOA 104
Quant Date : 10/30/2018 9:36 am

Compound #57: 1,4-Dioxane



Original Peak Response = 39088



Manual Peak Response = 39864 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2018\181029N\
Data File : V04181029N09.D
Acq On : 30 Oct 2018 1:43 am
Operator : VOA104:JC
Sample : I8260STDL6
Misc : WG1173809,ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 30 09:36:36 2018
Quant Method : I:\VOLATILES\VOA104\2018\181029N\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 30 09:25:47 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2018\181029N\V04181029N07.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.875	96	133577	20.000	ug/L	0.00
Standard Area 1 = 137158			Recovery = 97.39%			
59) Chlorobenzene-d5	9.388	117	97785	20.000	ug/L	0.00
Standard Area 1 = 99217			Recovery = 98.56%			
79) 1,4-Dichlorobenzene-d4	12.120	152	48716	20.000	ug/L	0.00
Standard Area 1 = 50228			Recovery = 96.99%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.084	113	34829	20.481	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 102.41%			
43) 1,2-Dichloroethane-d4	5.603	65	38352	19.889	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 99.44%			
60) Toluene-d8	7.548	98	129391	19.952	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 99.76%			
83) 4-Bromofluorobenzene	10.898	95	47284	20.126	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 100.63%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.613	85	150789	98.200	ug/L	98
3) Chloromethane	1.791	50	283864	90.549	ug/L	98
4) Vinyl chloride	1.859	62	217810	95.438	ug/L	97
5) Bromomethane	2.158	94	91896	100.670	ug/L	97
6) Chloroethane	2.268	64	84307	82.004	ug/L	93
7) Trichlorofluoromethane	2.399	101	166910	98.558	ug/L	100
8) Ethyl ether	2.693	74	61981	100.350	ug/L #	70
10) 1,1-Dichloroethene	2.866	96	106856	99.059	ug/L #	72
11) Carbon disulfide	2.892	76	332493	90.386	ug/L	99
12) Freon-113	2.903	101	116389	99.055	ug/L	97
13) Iodomethane	3.002	142	159688M1	104.283	ug/L	
14) Acrolein	3.201	56	33842	100.357	ug/L	99
15) Methylene chloride	3.416	84	184335	92.053	ug/L	72
17) Acetone	3.474	43	53085	89.755	ug/L #	78
18) trans-1,2-Dichloroethene	3.558	96	175215	100.131	ug/L	78
19) Methyl acetate	3.584	43	160371	96.891	ug/L #	92
20) Methyl tert-butyl ether	3.663	73	462054	100.242	ug/L #	89
21) tert-Butyl alcohol	3.783	59	135551	485.965	ug/L	94
22) Diisopropyl ether	4.004	45	820259	99.366	ug/L	92
23) 1,1-Dichloroethane	4.135	63	430671	98.700	ug/L	96
24) Halothane	4.187	117	132191	100.387	ug/L	100

Data Path : I:\VOLATILES\VOA104\2018\181029N\
Data File : V04181029N09.D
Acq On : 30 Oct 2018 1:43 am
Operator : VOA104:JC
Sample : I8260STDL6
Misc : WG1173809,ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 30 09:36:36 2018
Quant Method : I:\VOLATILES\VOA104\2018\181029N\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 30 09:25:47 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2018\181029N\V04181029N07.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.198	53	84729	105.591	ug/L		94
26) Ethyl tert-butyl ether	4.344	59	778097	99.787	ug/L		92
27) Vinyl acetate	4.365	43	434944	105.466	ug/L		97
28) cis-1,2-Dichloroethene	4.643	96	195724	100.369	ug/L	#	78
29) 2,2-Dichloropropane	4.738	77	235607	96.527	ug/L		95
30) Bromochloromethane	4.837	128	91101	97.490	ug/L	#	71
31) Cyclohexane	4.816	56	414946	97.922	ug/L		71
32) Chloroform	4.905	83	309923	97.755	ug/L		97
33) Ethyl acetate	5.015	43	217289	106.179	ug/L	#	95
34) Carbon tetrachloride	5.021	117	223430	102.659	ug/L		99
35) Tetrahydrofuran	5.063	42	65040	98.231	ug/L		92
37) 1,1,1-Trichloroethane	5.094	97	253179	98.863	ug/L		95
39) 2-Butanone	5.204	43	97191	96.456	ug/L		89
40) 1,1-Dichloropropene	5.215	75	215093	99.991	ug/L		99
41) Benzene	5.456	78	677402	97.261	ug/L	#	92
42) tert-Amyl methyl ether	5.566	73	479772	100.701	ug/L		91
44) 1,2-Dichloroethane	5.666	62	275035	99.415	ug/L		99
47) Methyl cyclohexane	6.022	83	264704	100.022	ug/L	#	61
48) Trichloroethene	6.048	95	186966	100.951	ug/L		99
50) Dibromomethane	6.494	93	111073	103.937	ug/L		96
51) 1,2-Dichloropropane	6.588	63	261577	99.634	ug/L	#	91
53) 2-Chloroethyl vinyl ether	7.280	63	141328	103.512	ug/L		97
54) Bromodichloromethane	6.667	83	247569	104.796	ug/L		99
57) 1,4-Dioxane	6.887	88	91701M1	5034.083	ug/L		
58) cis-1,3-Dichloropropene	7.349	75	290544	107.735	ug/L		97
61) Toluene	7.606	92	427254	97.919	ug/L		100
62) 4-Methyl-2-pentanone	8.051	58	103231	106.153	ug/L	#	81
63) Tetrachloroethene	8.046	166	182902	101.495	ug/L		100
65) trans-1,3-Dichloropropene	8.098	75	256005	101.412	ug/L		98
67) Ethyl methacrylate	8.282	69	215501	101.162	ug/L		97
68) 1,1,2-Trichloroethane	8.282	83	135423	101.631	ug/L		99
69) Chlorodibromomethane	8.492	129	202953	104.886	ug/L		98
70) 1,3-Dichloropropane	8.602	76	259631	102.519	ug/L		100
71) 1,2-Dibromoethane	8.764	107	167589	103.138	ug/L		99
72) 2-Hexanone	9.053	43	156650	102.588	ug/L		88
73) Chlorobenzene	9.409	112	493686	98.086	ug/L		99
74) Ethylbenzene	9.441	91	816885	98.072	ug/L		99
75) 1,1,1,2-Tetrachloroethane	9.493	131	187236	103.932	ug/L		98
76) p/m Xylene	9.629	106	624511	199.333	ug/L		97
77) o Xylene	10.175	106	611494	198.152	ug/L		97

Data Path : I:\VOLATILES\VOA104\2018\181029N\
Data File : V04181029N09.D
Acq On : 30 Oct 2018 1:43 am
Operator : VOA104:JC
Sample : I8260STDL6
Misc : WG1173809,ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 30 09:36:36 2018
Quant Method : I:\VOLATILES\VOA104\2018\181029N\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 30 09:25:47 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2018\181029N\V04181029N07.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78) Styrene	10.248	104	1029937	204.309	ug/L	99
80) Bromoform	10.279	173	129271	108.713	ug/L	100
82) Isopropylbenzene	10.563	105	789325	97.123	ug/L	100
84) Bromobenzene	11.008	156	213841	101.423	ug/L	98
85) n-Propylbenzene	11.050	91	941652	98.294	ug/L	98
86) 1,4-Dichlorobutane	11.082	55	404752	100.090	ug/L	91
87) 1,1,2,2-Tetrachloroethane	11.155	83	208509	101.898	ug/L	99
88) 4-Ethyltoluene	11.176	105	770419	98.290	ug/L	99
89) 2-Chlorotoluene	11.223	91	570427	97.256	ug/L	99
90) 1,3,5-Trimethylbenzene	11.276	105	667314	95.809	ug/L	99
91) 1,2,3-Trichloropropane	11.291	75	153679	98.528	ug/L	99
92) trans-1,4-Dichloro-2-b...	11.349	53	71453	101.201	ug/L	96
93) 4-Chlorotoluene	11.407	91	578352	98.316	ug/L	100
94) tert-Butylbenzene	11.616	119	553612	97.092	ug/L	99
97) 1,2,4-Trimethylbenzene	11.700	105	678373	98.456	ug/L	100
98) sec-Butylbenzene	11.810	105	843841	95.889	ug/L	98
99) p-Isopropyltoluene	11.968	119	712317	97.475	ug/L	99
100) 1,3-Dichlorobenzene	12.041	146	391258	100.260	ug/L	98
101) 1,4-Dichlorobenzene	12.136	146	401675	97.389	ug/L	99
102) p-Diethylbenzene	12.340	119	422166	99.533	ug/L	98
103) n-Butylbenzene	12.403	91	663202	97.553	ug/L	98
104) 1,2-Dichlorobenzene	12.560	146	375507	100.272	ug/L	98
105) 1,2,4,5-Tetramethylben...	13.142	119	684525	100.095	ug/L	97
106) 1,2-Dibromo-3-chloropr...	13.347	155	34910	99.081	ug/L	99
107) 1,3,5-Trichlorobenzene	13.368	180	266852	99.347	ug/L	99
108) Hexachlorobutadiene	13.944	225	118055	96.720	ug/L	100
109) 1,2,4-Trichlorobenzene	13.971	180	258923	102.097	ug/L	98
110) Naphthalene	14.264	128	657542	102.857	ug/L	100
111) 1,2,3-Trichlorobenzene	14.432	180	242588	99.877	ug/L	99

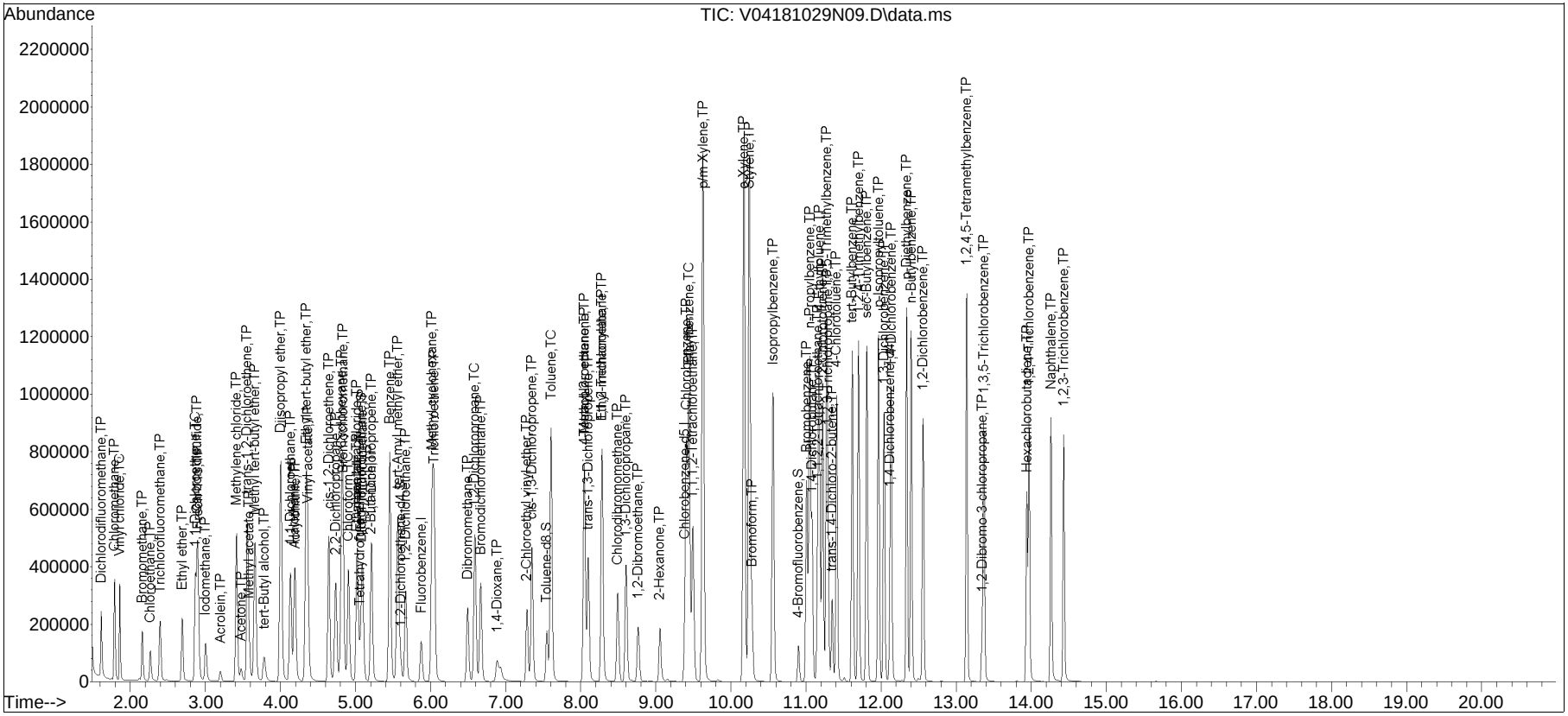
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2018\181029N\
Data File : V04181029N09.D
Acq On : 30 Oct 2018 1:43 am
Operator : VOA104:JC
Sample : I8260STDL6
Misc : WG1173809,ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 30 09:36:36 2018
Quant Method : I:\VOLATILES\VOA104\2018\181029N\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 30 09:25:47 2018
Response via : Initial Calibration

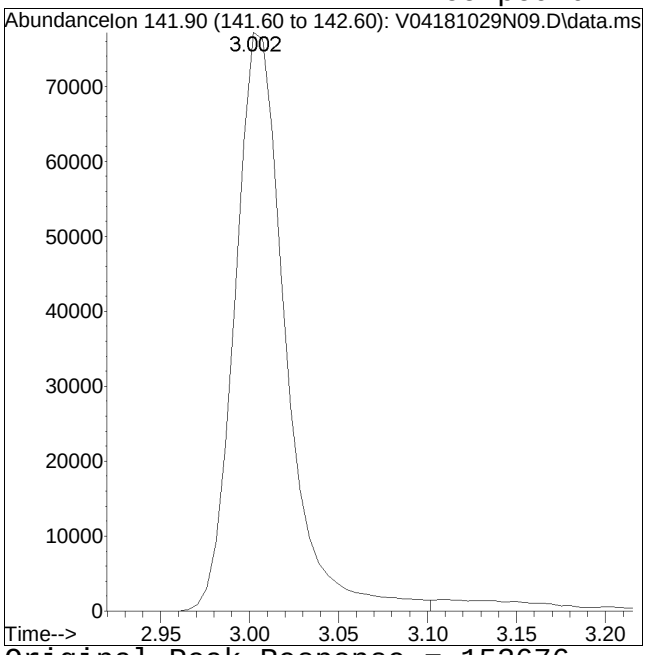
Sub List : 8260-Curve - Megamix plus Diox81029N\V04181029N07.D•

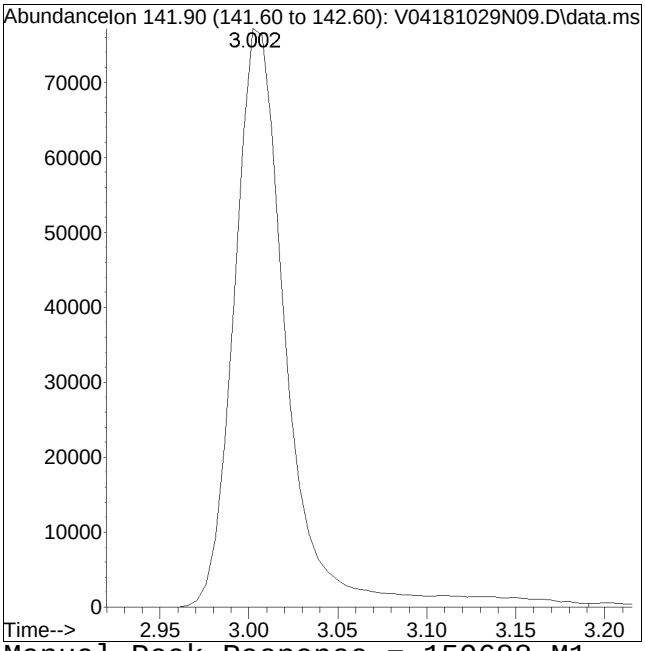


Manual Integration Report

Data Path : I:\VOLATILES\VOA104\2018\1QMethod : V104_181029N_8260.m
Data File : V04181029N09.D Operator : VOA104:JC
Date Inj'd : 10/30/2018 1:43 am Instrument : VOA 104
Sample : I8260STDL6 Quant Date : 10/30/2018 9:36 am

Compound #13: Iodomethane





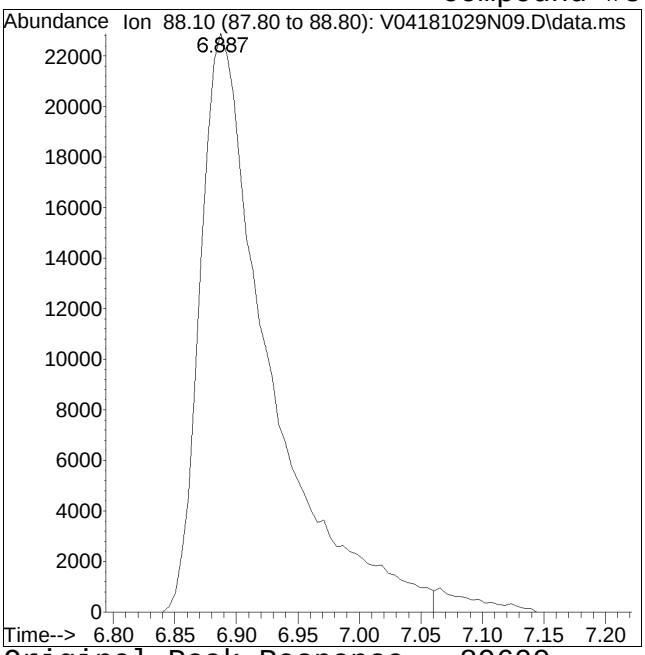
Original Peak Response = 153676 Manual Peak Response = 159688 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

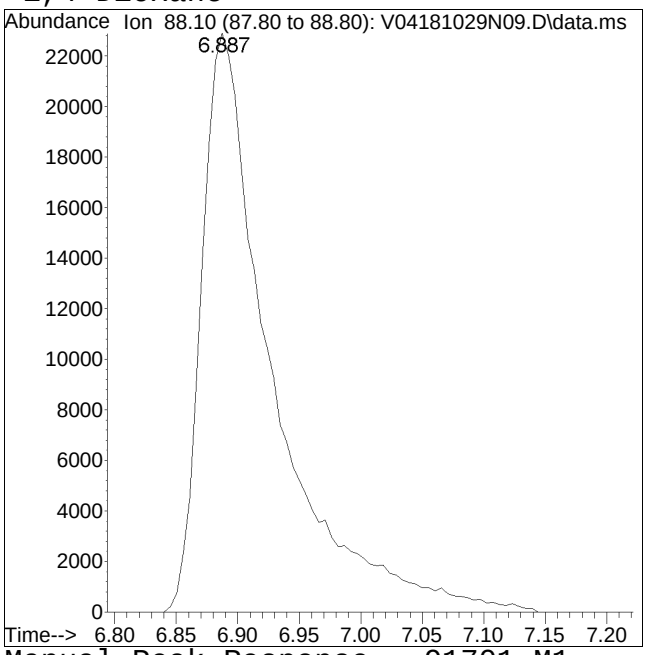
Data Path : I:\VOLATILES\VOA104\2018\1Q
Data File : V04181029N09.D
Date Inj'd : 10/30/2018 1:43 am
Sample : I8260STDL6

Method : V104_181029N_8260.m
Operator : VOA104:JC
Instrument : VOA 104
Quant Date : 10/30/2018 9:36 am

Compound #57: 1,4-Dioxane



Original Peak Response = 89600



Manual Peak Response = 91701 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2018\181029N\
Data File : V04181029N10.D
Acq On : 30 Oct 2018 2:10 am
Operator : VOA104:JC
Sample : I8260STDL7
Misc : WG1173809,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 30 09:36:44 2018
Quant Method : I:\VOLATILES\VOA104\2018\181029N\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 30 09:25:47 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2018\181029N\V04181029N07.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.875	96	132125	20.000	ug/L	0.00
Standard Area 1 = 137158			Recovery = 96.33%			
59) Chlorobenzene-d5	9.388	117	97037	20.000	ug/L	0.00
Standard Area 1 = 99217			Recovery = 97.80%			
79) 1,4-Dichlorobenzene-d4	12.120	152	47700	20.000	ug/L	0.00
Standard Area 1 = 50228			Recovery = 94.97%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.084	113	34204	20.334	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 101.67%			
43) 1,2-Dichloroethane-d4	5.603	65	38977	20.435	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 102.18%			
60) Toluene-d8	7.548	98	127175	19.761	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 98.80%			
83) 4-Bromofluorobenzene	10.898	95	46351	20.150	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 100.75%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.613	85	294805	194.100	ug/L	99
3) Chloromethane	1.791	50	552549	178.193	ug/L	97
4) Vinyl chloride	1.859	62	429354	190.197	ug/L	96
5) Bromomethane	2.158	94	175201	194.957	ug/L	98
6) Chloroethane	2.258	64	134708	132.468	ug/L	93
7) Trichlorofluoromethane	2.389	101	304490	181.772	ug/L	99
8) Ethyl ether	2.693	74	119407	195.450	ug/L #	73
10) 1,1-Dichloroethene	2.866	96	207781	194.737	ug/L #	75
11) Carbon disulfide	2.887	76	616323	169.385	ug/L	99
12) Freon-113	2.897	101	208751	179.614	ug/L	93
13) Iodomethane	3.002	142	343100M1	220.545	ug/L	
14) Acrolein	3.201	56	68331	204.859	ug/L	99
15) Methylene chloride	3.411	84	358748	181.121	ug/L	74
17) Acetone	3.479	43	95672	163.538	ug/L #	78
18) trans-1,2-Dichloroethene	3.558	96	343078	198.216	ug/L	78
19) Methyl acetate	3.579	43	309288	188.915	ug/L #	92
20) Methyl tert-butyl ether	3.663	73	896207	196.567	ug/L #	89
21) tert-Butyl alcohol	3.789	59	268621	973.620	ug/L	93
22) Diisopropyl ether	4.004	45	1567542	191.978	ug/L	92
23) 1,1-Dichloroethane	4.129	63	839471	194.502	ug/L	96
24) Halothane	4.187	117	261152	200.501	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2018\181029N\
Data File : V04181029N10.D
Acq On : 30 Oct 2018 2:10 am
Operator : VOA104:JC
Sample : I8260STDL7
Misc : WG1173809,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 30 09:36:44 2018
Quant Method : I:\VOLATILES\VOA104\2018\181029N\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 30 09:25:47 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2018\181029N\V04181029N07.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.198	53	167164	210.613	ug/L		94
26) Ethyl tert-butyl ether	4.344	59	1507372	195.438	ug/L		95
27) Vinyl acetate	4.365	43	902768	221.310	ug/L		98
28) cis-1,2-Dichloroethene	4.643	96	383854	199.008	ug/L	#	78
29) 2,2-Dichloropropane	4.738	77	470105	194.717	ug/L		95
30) Bromochloromethane	4.837	128	176053	190.470	ug/L	#	74
31) Cyclohexane	4.816	56	786456	187.634	ug/L		72
32) Chloroform	4.905	83	605026	192.933	ug/L		98
33) Ethyl acetate	5.015	43	423871	209.402	ug/L	#	95
34) Carbon tetrachloride	5.021	117	438709	203.788	ug/L		99
35) Tetrahydrofuran	5.063	42	125618	191.809	ug/L		93
37) 1,1,1-Trichloroethane	5.089	97	498092	196.636	ug/L		96
39) 2-Butanone	5.204	43	186211	186.834	ug/L		89
40) 1,1-Dichloropropene	5.209	75	420265	197.518	ug/L		99
41) Benzene	5.456	78	1322860	192.023	ug/L	#	92
42) tert-Amyl methyl ether	5.566	73	926082	196.514	ug/L		91
44) 1,2-Dichloroethane	5.671	62	531518	194.236	ug/L		99
47) Methyl cyclohexane	6.022	83	496602	189.710	ug/L	#	61
48) Trichloroethene	6.048	95	360797	196.951	ug/L		99
50) Dibromomethane	6.494	93	220559	208.657	ug/L		96
51) 1,2-Dichloropropane	6.588	63	510925	196.749	ug/L	#	91
53) 2-Chloroethyl vinyl ether	7.286	63	283741	210.102	ug/L		97
54) Bromodichloromethane	6.667	83	488924	209.236	ug/L		100
57) 1,4-Dioxane	6.892	88	181515M1	10049.894	ug/L		
58) cis-1,3-Dichloropropene	7.349	75	581027	217.815	ug/L		98
61) Toluene	7.606	92	833303	192.450	ug/L		100
62) 4-Methyl-2-pentanone	8.051	58	202284	209.613	ug/L	#	79
63) Tetrachloroethene	8.046	166	355842	198.983	ug/L		99
65) trans-1,3-Dichloropropene	8.098	75	504510	201.042	ug/L		98
67) Ethyl methacrylate	8.282	69	423451	200.311	ug/L		97
68) 1,1,2-Trichloroethane	8.287	83	263677	199.407	ug/L		100
69) Chlorodibromomethane	8.492	129	401248	208.964	ug/L		99
70) 1,3-Dichloropropane	8.602	76	505650	201.202	ug/L		100
71) 1,2-Dibromoethane	8.764	107	331458	205.559	ug/L		100
72) 2-Hexanone	9.053	43	307061	202.640	ug/L		88
73) Chlorobenzene	9.409	112	959346	192.074	ug/L		99
74) Ethylbenzene	9.441	91	1588030	192.122	ug/L		99
75) 1,1,1,2-Tetrachloroethane	9.493	131	363842	203.521	ug/L		98
76) p/m Xylene	9.629	106	1189718	382.664	ug/L		95
77) o Xylene	10.175	106	1158616	378.338	ug/L		95

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2018\181029N\
Data File : V04181029N10.D
Acq On : 30 Oct 2018 2:10 am
Operator : VOA104:JC
Sample : I8260STDL7
Misc : WG1173809,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 30 09:36:44 2018
Quant Method : I:\VOLATILES\VOA104\2018\181029N\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 30 09:25:47 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2018\181029N\V04181029N07.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78) Styrene	10.248	104	1950858	389.975	ug/L	98
80) Bromoform	10.279	173	252701	217.041	ug/L	99
82) Isopropylbenzene	10.563	105	1515619	190.462	ug/L	100
84) Bromobenzene	11.008	156	411867	199.506	ug/L	99
85) n-Propylbenzene	11.050	91	1794435	191.301	ug/L	98
86) 1,4-Dichlorobutane	11.082	55	774258	195.542	ug/L	91
87) 1,1,2,2-Tetrachloroethane	11.160	83	409340	204.304	ug/L	100
88) 4-Ethyltoluene	11.176	105	1473328	191.970	ug/L	99
89) 2-Chlorotoluene	11.223	91	1102162	191.917	ug/L	99
90) 1,3,5-Trimethylbenzene	11.276	105	1272311	186.563	ug/L	100
91) 1,2,3-Trichloropropane	11.291	75	296523	194.158	ug/L	98
92) trans-1,4-Dichloro-2-b...	11.349	53	141704	204.975	ug/L	97
93) 4-Chlorotoluene	11.412	91	1118534	194.193	ug/L	99
94) tert-Butylbenzene	11.616	119	1052355	188.493	ug/L	99
97) 1,2,4-Trimethylbenzene	11.700	105	1297539	192.329	ug/L	99
98) sec-Butylbenzene	11.810	105	1577946	183.127	ug/L	98
99) p-Isopropyltoluene	11.968	119	1345145	187.994	ug/L	99
100) 1,3-Dichlorobenzene	12.041	146	747923	195.738	ug/L	98
101) 1,4-Dichlorobenzene	12.135	146	763277	189.004	ug/L	99
102) p-Diethylbenzene	12.340	119	793026	190.951	ug/L	99
103) n-Butylbenzene	12.403	91	1239800	186.251	ug/L	98
104) 1,2-Dichlorobenzene	12.560	146	719325	196.174	ug/L	98
105) 1,2,4,5-Tetramethylben...	13.142	119	1304712	194.845	ug/L	97
106) 1,2-Dibromo-3-chloropr...	13.347	155	69195	199.789	ug/L	100
107) 1,3,5-Trichlorobenzene	13.373	180	513437	195.220	ug/L	99
108) Hexachlorobutadiene	13.939	225	222397	186.086	ug/L	100
109) 1,2,4-Trichlorobenzene	13.971	180	493246	198.637	ug/L	99
110) Naphthalene	14.264	128	1274063	203.542	ug/L	100
111) 1,2,3-Trichlorobenzene	14.432	180	464737	195.414	ug/L	99

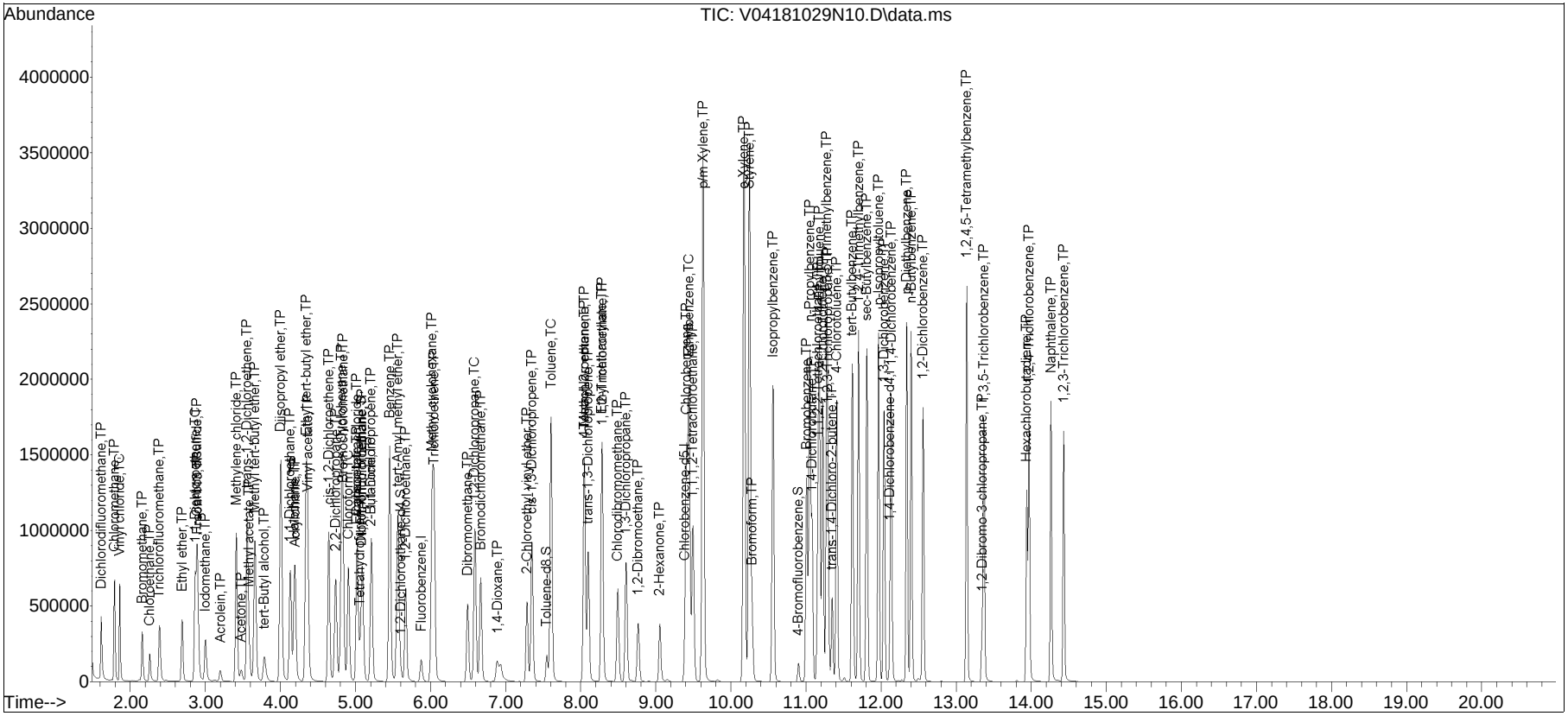
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2018\181029N\
Data File : V04181029N10.D
Acq On : 30 Oct 2018 2:10 am
Operator : VOA104:JC
Sample : I8260STDL7
Misc : WG1173809,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 30 09:36:44 2018
Quant Method : I:\VOLATILES\VOA104\2018\181029N\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 30 09:25:47 2018
Response via : Initial Calibration

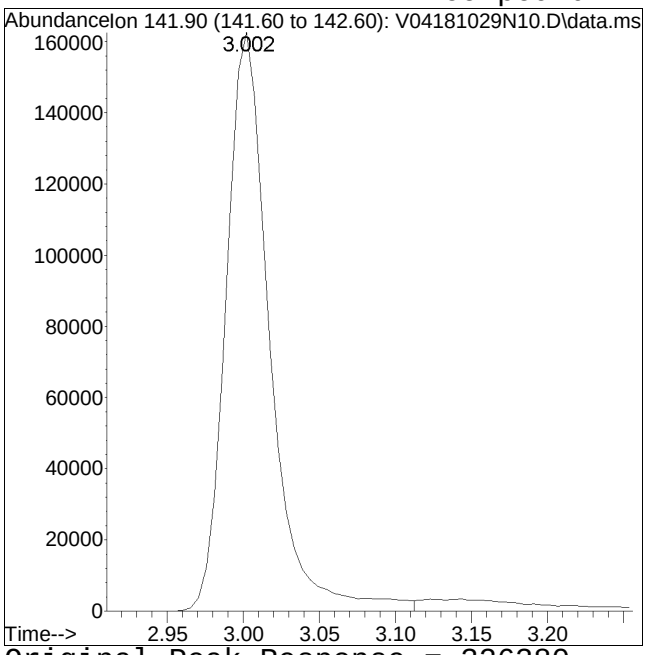
Sub List : 8260-Curve - Megamix plus Diox81029N\V04181029N07.D•

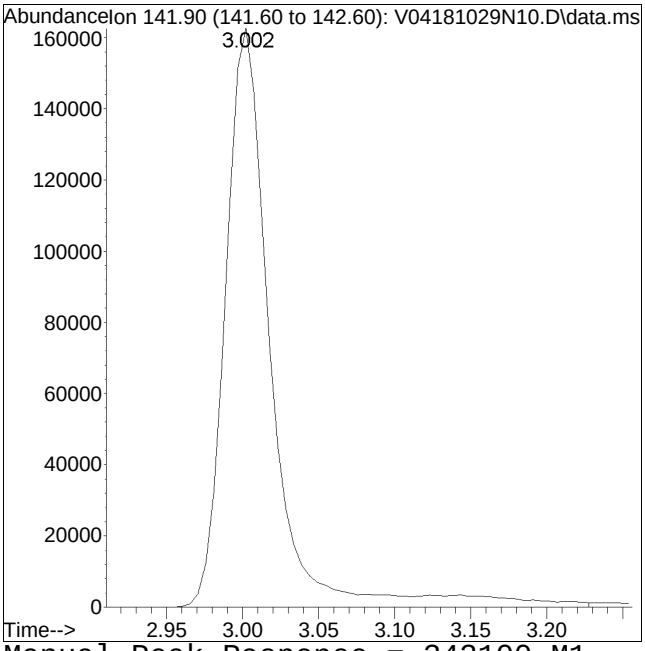


Manual Integration Report

Data Path : I:\VOLATILES\VOA104\2018\1QMethod : V104_181029N_8260.m
Data File : V04181029N10.D Operator : VOA104:JC
Date Inj'd : 10/30/2018 2:10 am Instrument : VOA 104
Sample : I8260STDL7 Quant Date : 10/30/2018 9:36 am

Compound #13: Iodomethane





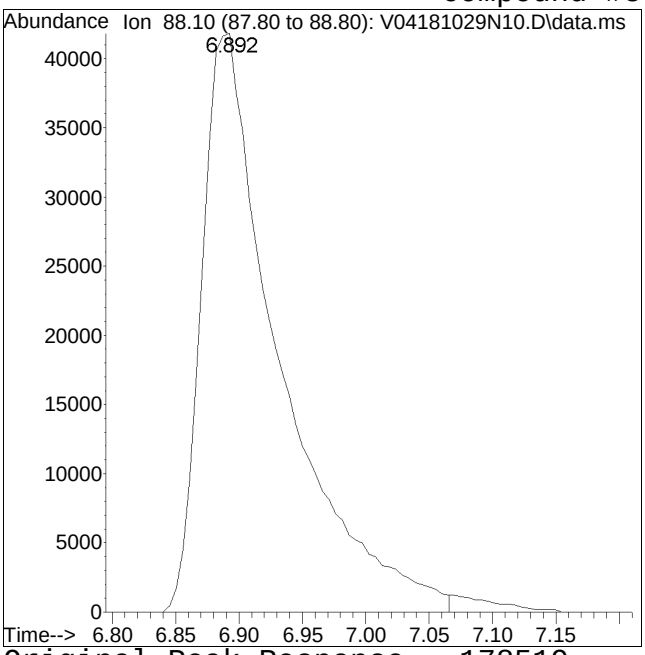
Original Peak Response = 326380 Manual Peak Response = 343100 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

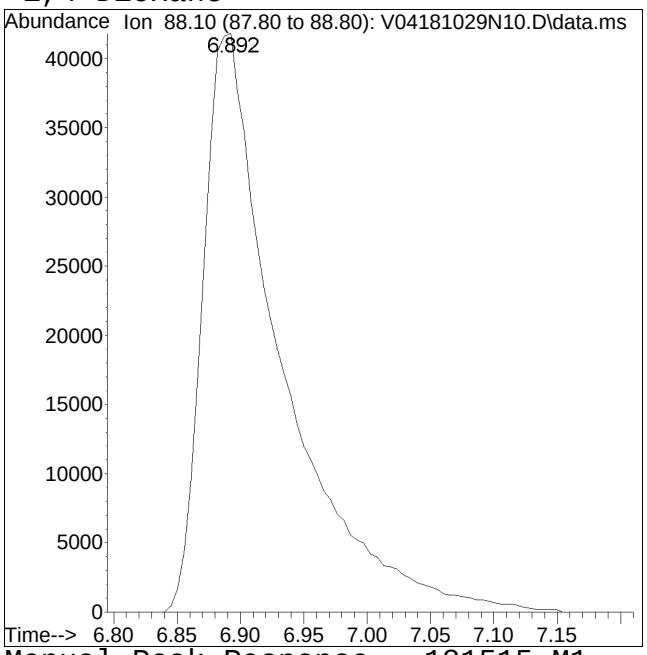
Data Path : I:\VOLATILES\VOA104\2018\1Q
Data File : V04181029N10.D
Date Inj'd : 10/30/2018 2:10 am
Sample : I8260STDL7

Method : V104_181029N_8260.m
Operator : VOA104:JC
Instrument : VOA 104
Quant Date : 10/30/2018 9:36 am

Compound #57: 1,4-Dioxane



Original Peak Response = 178519



Manual Peak Response = 181515 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2018\181029N\
Data File : V04181029N11.D
Acq On : 30 Oct 2018 2:37 am
Operator : VOA104:JC
Sample : I8260STDL8
Misc : WG1173809,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 30 09:36:51 2018
Quant Method : I:\VOLATILES\VOA104\2018\181029N\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 30 09:25:47 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2018\181029N\V04181029N07.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.875	96	131700	20.000	ug/L	0.00
Standard Area 1 = 137158			Recovery = 96.02%			
59) Chlorobenzene-d5	9.388	117	96759	20.000	ug/L	0.00
Standard Area 1 = 99217			Recovery = 97.52%			
79) 1,4-Dichlorobenzene-d4	12.120	152	47140	20.000	ug/L	0.00
Standard Area 1 = 50228			Recovery = 93.85%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.084	113	34365	20.496	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 102.48%			
43) 1,2-Dichloroethane-d4	5.603	65	38763	20.389	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 101.94%			
60) Toluene-d8	7.548	98	127744	19.907	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 99.53%			
83) 4-Bromofluorobenzene	10.898	95	46292	20.363	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 101.81%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.613	85	424484	280.383	ug/L	98
3) Chloromethane	1.791	50	852681	275.871	ug/L	98
4) Vinyl chloride	1.859	62	634172	281.835	ug/L	96
5) Bromomethane	2.158	94	265772	297.213	ug/L	97
6) Chloroethane	2.258	64	156894	154.783	ug/L	94
7) Trichlorofluoromethane	2.383	101	420053	251.570	ug/L	100
8) Ethyl ether	2.687	74	171824	282.155	ug/L	77
10) 1,1-Dichloroethene	2.860	96	316950	298.011	ug/L #	75
11) Carbon disulfide	2.887	76	1148189	316.577	ug/L	99
12) Freon-113	2.892	101	374904	323.616	ug/L	88
13) Iodomethane	3.002	142	492959M1	315.646	ug/L	
14) Acrolein	3.196	56	96112	289.077	ug/L	100
15) Methylene chloride	3.411	84	517563	262.145	ug/L	75
17) Acetone	3.479	43	153727	263.622	ug/L #	78
18) trans-1,2-Dichloroethene	3.558	96	490973	284.579	ug/L	79
19) Methyl acetate	3.579	43	458056	280.687	ug/L #	92
20) Methyl tert-butyl ether	3.657	73	1298732	285.773	ug/L #	90
21) tert-Butyl alcohol	3.789	59	386069	1403.827	ug/L	92
22) Diisopropyl ether	4.003	45	2252012	276.695	ug/L	92
23) 1,1-Dichloroethane	4.129	63	1200471	279.043	ug/L	96
24) Halothane	4.187	117	372060	286.574	ug/L	100

Data Path : I:\VOLATILES\VOA104\2018\181029N\
Data File : V04181029N11.D
Acq On : 30 Oct 2018 2:37 am
Operator : VOA104:JC
Sample : I8260STDL8
Misc : WG1173809,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 30 09:36:51 2018
Quant Method : I:\VOLATILES\VOA104\2018\181029N\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 30 09:25:47 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2018\181029N\V04181029N07.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.197	53	239805	303.110	ug/L		94
26) Ethyl tert-butyl ether	4.344	59	2168038	282.004	ug/L		91
27) Vinyl acetate	4.365	43	1161945	285.766	ug/L		98
28) cis-1,2-Dichloroethene	4.643	96	549080	285.587	ug/L	#	78
29) 2,2-Dichloropropane	4.732	77	673112	279.702	ug/L		96
30) Bromochloromethane	4.832	128	251763	273.260	ug/L	#	75
31) Cyclohexane	4.816	56	1114590	266.779	ug/L		72
32) Chloroform	4.905	83	859739	275.042	ug/L		97
33) Ethyl acetate	5.015	43	602544	298.631	ug/L	#	95
34) Carbon tetrachloride	5.021	117	626412	291.918	ug/L		99
35) Tetrahydrofuran	5.057	42	182426	279.449	ug/L		93
37) 1,1,1-Trichloroethane	5.089	97	711416	281.758	ug/L		96
39) 2-Butanone	5.204	43	275546	277.361	ug/L	#	88
40) 1,1-Dichloropropene	5.209	75	600074	282.935	ug/L		100
41) Benzene	5.456	78	1885837	274.626	ug/L	#	92
42) tert-Amyl methyl ether	5.566	73	1339789	285.220	ug/L		92
44) 1,2-Dichloroethane	5.665	62	767578	281.406	ug/L		99
47) Methyl cyclohexane	6.022	83	701795	268.962	ug/L	#	63
48) Trichloroethene	6.048	95	525696	287.892	ug/L		98
50) Dibromomethane	6.494	93	321000	304.658	ug/L		96
51) 1,2-Dichloropropane	6.588	63	738459	285.287	ug/L	#	91
53) 2-Chloroethyl vinyl ether	7.286	63	406549	302.009	ug/L		97
54) Bromodichloromethane	6.667	83	714455	306.739	ug/L		100
57) 1,4-Dioxane	6.887	88	263244M1	14611.005	ug/L		
58) cis-1,3-Dichloropropene	7.349	75	841592	316.514	ug/L		98
61) Toluene	7.605	92	1189218	275.437	ug/L		100
62) 4-Methyl-2-pentanone	8.051	58	288814	300.138	ug/L	#	78
63) Tetrachloroethene	8.046	166	501386	281.175	ug/L		99
65) trans-1,3-Dichloropropene	8.098	75	738090	294.800	ug/L		99
67) Ethyl methacrylate	8.282	69	610554	289.649	ug/L		96
68) 1,1,2-Trichloroethane	8.282	83	379394	287.742	ug/L		99
69) Chlorodibromomethane	8.492	129	584564	305.307	ug/L		99
70) 1,3-Dichloropropane	8.607	76	734957	293.286	ug/L		100
71) 1,2-Dibromoethane	8.764	107	484638	301.420	ug/L		100
72) 2-Hexanone	9.053	43	450675	298.270	ug/L		88
73) Chlorobenzene	9.409	112	1363461	273.767	ug/L		99
74) Ethylbenzene	9.440	91	2240845	271.879	ug/L		99
75) 1,1,1,2-Tetrachloroethane	9.498	131	520960	292.245	ug/L		98
76) p/m Xylene	9.629	106	1653242	533.281	ug/L		94
77) o Xylene	10.180	106	1622885	531.464	ug/L		94

Data Path : I:\VOLATILES\VOA104\2018\181029N\
Data File : V04181029N11.D
Acq On : 30 Oct 2018 2:37 am
Operator : VOA104:JC
Sample : I8260STDL8
Misc : WG1173809,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 30 09:36:51 2018
Quant Method : I:\VOLATILES\VOA104\2018\181029N\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 30 09:25:47 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2018\181029N\V04181029N07.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78) Styrene	10.248	104	2744063	550.113	ug/L	97
80) Bromoform	10.279	173	368348	320.127	ug/L	100
82) Isopropylbenzene	10.563	105	2121104	269.717	ug/L	100
84) Bromobenzene	11.008	156	591164	289.758	ug/L	98
85) n-Propylbenzene	11.050	91	2498889	269.566	ug/L	98
86) 1,4-Dichlorobutane	11.082	55	1098734	280.786	ug/L	92
87) 1,1,2,2-Tetrachloroethane	11.160	83	574210	289.996	ug/L	99
88) 4-Ethyltoluene	11.181	105	2056083	271.084	ug/L	99
89) 2-Chlorotoluene	11.223	91	1568538	276.371	ug/L	98
90) 1,3,5-Trimethylbenzene	11.281	105	1772896	263.053	ug/L	99
91) 1,2,3-Trichloropropane	11.297	75	423371	280.509	ug/L	98
92) trans-1,4-Dichloro-2-b...	11.349	53	202278	296.071	ug/L	97
93) 4-Chlorotoluene	11.412	91	1581575	277.846	ug/L	99
94) tert-Butylbenzene	11.622	119	1465041	265.528	ug/L	99
97) 1,2,4-Trimethylbenzene	11.700	105	1815138	272.247	ug/L	99
98) sec-Butylbenzene	11.810	105	2188190	256.965	ug/L	98
99) p-Isopropyltoluene	11.968	119	1856726	262.574	ug/L	98
100) 1,3-Dichlorobenzene	12.041	146	1053141	278.890	ug/L	98
101) 1,4-Dichlorobenzene	12.135	146	1073775	269.049	ug/L	99
102) p-Diethylbenzene	12.345	119	1102056	268.515	ug/L	98
103) n-Butylbenzene	12.403	91	1713198	260.425	ug/L	98
104) 1,2-Dichlorobenzene	12.560	146	1027395	283.519	ug/L	98
105) 1,2,4,5-Tetramethylben...	13.142	119	1834936	277.284	ug/L	97
106) 1,2-Dibromo-3-chloropr...	13.347	155	102194	298.196	ug/L	99
107) 1,3,5-Trichlorobenzene	13.373	180	720771	277.309	ug/L	99
108) Hexachlorobutadiene	13.944	225	310203	262.640	ug/L	100
109) 1,2,4-Trichlorobenzene	13.970	180	694646	283.066	ug/L	98
110) Naphthalene	14.264	128	1828141	295.529	ug/L	100
111) 1,2,3-Trichlorobenzene	14.432	180	663642	282.365	ug/L	99

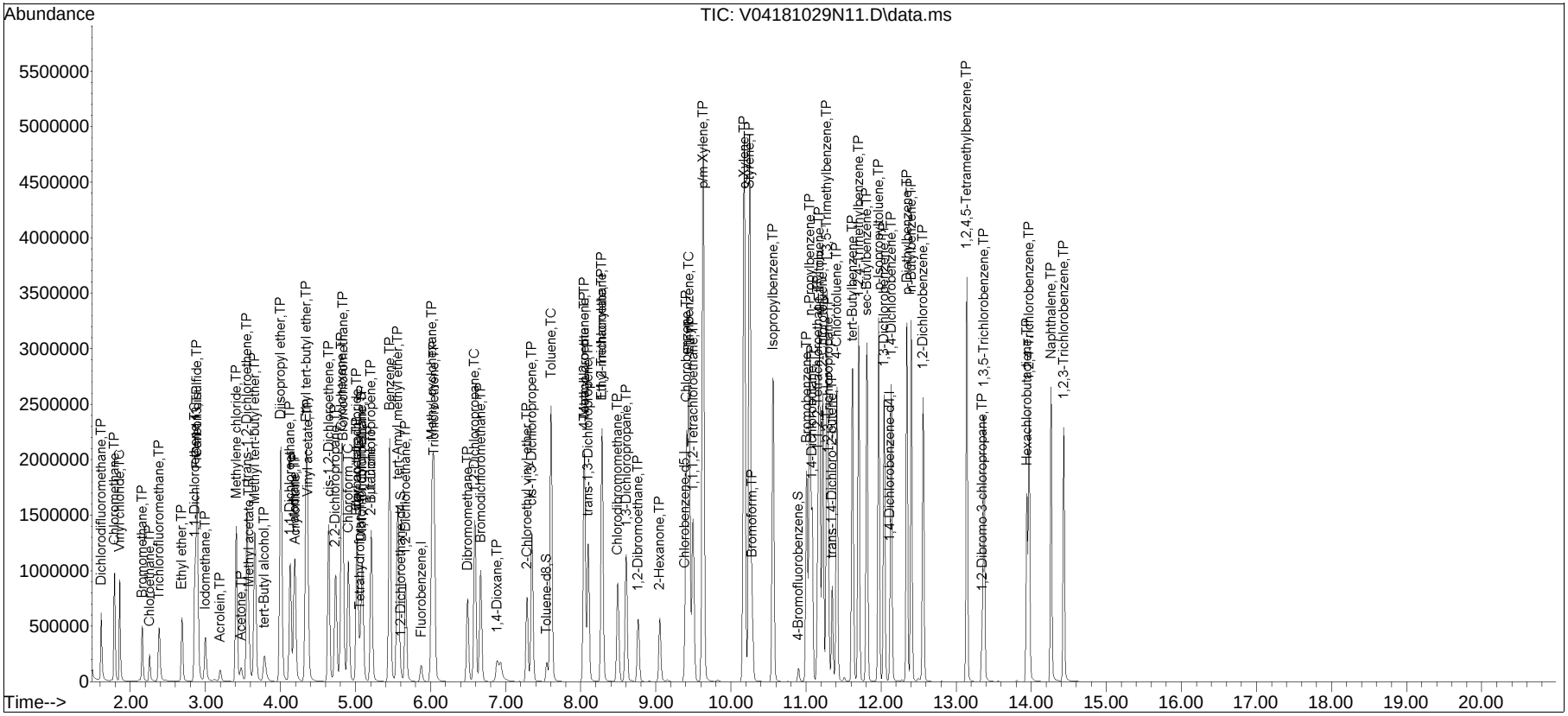
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2018\181029N\
Data File : V04181029N11.D
Acq On : 30 Oct 2018 2:37 am
Operator : VOA104:JC
Sample : I8260STDL8
Misc : WG1173809,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 30 09:36:51 2018
Quant Method : I:\VOLATILES\VOA104\2018\181029N\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 30 09:25:47 2018
Response via : Initial Calibration

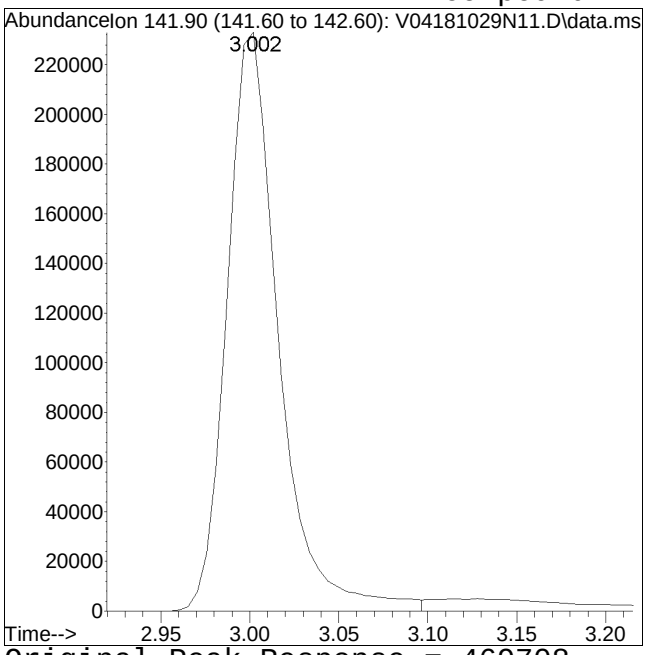
Sub List : 8260-Curve - Megamix plus Diox81029N\V04181029N07.D•

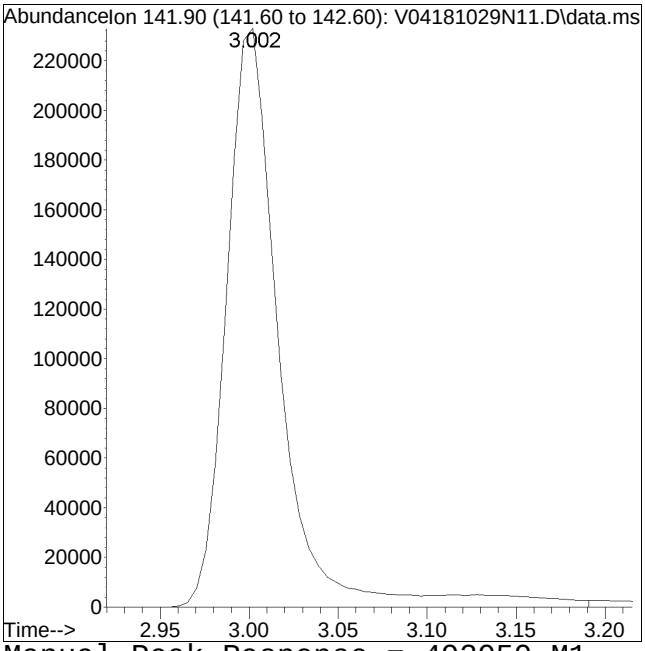


Manual Integration Report

Data Path : I:\VOLATILES\VOA104\2018\1QMethod : V104_181029N_8260.m
Data File : V04181029N11.D Operator : VOA104:JC
Date Inj'd : 10/30/2018 2:37 am Instrument : VOA 104
Sample : I8260STDL8 Quant Date : 10/30/2018 9:36 am

Compound #13: Iodomethane





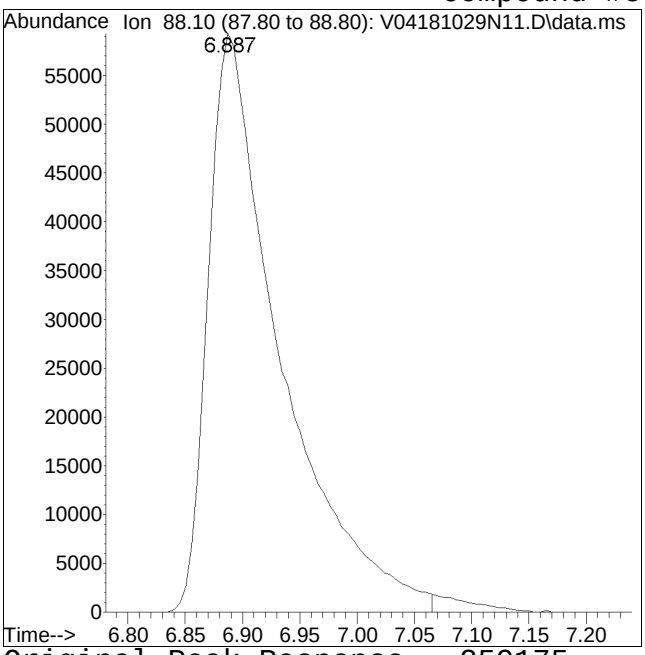
Original Peak Response = 469708 Manual Peak Response = 492959 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

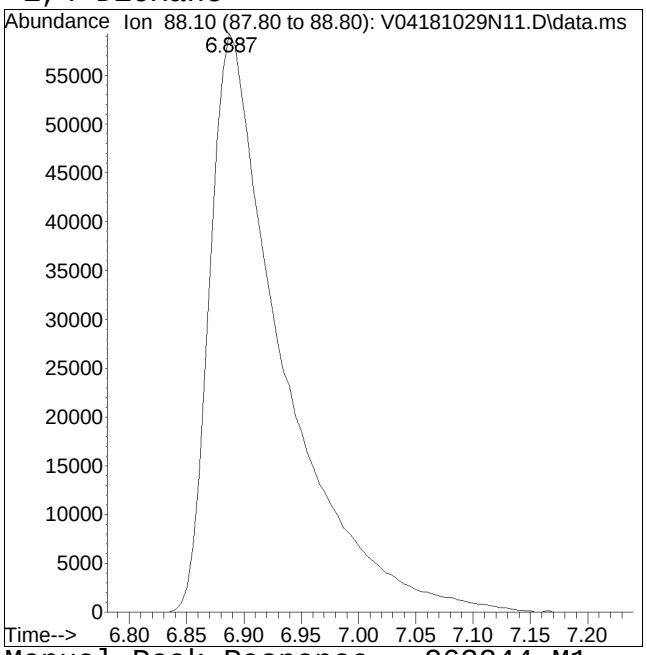
Data Path : I:\VOLATILES\VOA104\2018\1Q
Data File : V04181029N11.D
Date Inj'd : 10/30/2018 2:37 am
Sample : I8260STDL8

Method : V104_181029N_8260.m
Operator : VOA104:JC
Instrument : VOA 104
Quant Date : 10/30/2018 9:36 am

Compound #57: 1,4-Dioxane



Original Peak Response = 259175



Manual Peak Response = 263244 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA104\2018\181029N\
Data File : V04181029N15.D
Acq On : 30 Oct 2018 4:26 am
Operator : VOA104:JC
Sample : C8260STDL3
Misc : WG1173809,ICAL
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 30 09:43:52 2018
Quant Method : I:\VOLATILES\VOA104\2018\181029N\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 30 09:25:47 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.05min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene		1.000	1.000	0.0	101	0.00
2	TP	Dichlorodifluoromethane		0.230	0.198	13.9	80	0.00
3	TP	Chloromethane		0.469	0.445	5.1	92	0.00
4	TC	Vinyl chloride		0.342	0.288	15.8	80	0.00
5	TP	Bromomethane	*	20.000	21.105	-5.5	91	0.00
6	TP	Chloroethane		0.154	0.126	18.2	83	0.00
7	TP	Trichlorofluoromethane		0.254	0.219	13.8	79	0.00
8	TP	Ethyl ether		0.092	0.094	-2.2	97	0.00
10	TC	1,1-Dichloroethene		0.162	0.142	12.3	84	0.00
11	TP	Carbon disulfide		0.551	0.523	5.1	96	0.00
12	TP	Freon-113		0.176	0.196	-11.4	102	0.00
13	TP	Iodomethane	*	20.000	10.127	49.4#	56	0.00
14	TP	Acrolein		0.050	0.064	-28.0#	120	0.00
15	TP	Methylene chloride		0.300	0.271	9.7	90	0.00
17	TP	Acetone		0.089	0.084#	5.6	94	0.00
18	TP	trans-1,2-Dichloroethene		0.262	0.231	11.8	82	0.00
19	TP	Methyl acetate		0.248	0.248	0.0	97	0.00
20	TP	Methyl tert-butyl ether		0.690	0.688	0.3	94	0.00
21	TP	tert-Butyl alcohol		0.042	0.043#	-2.4	94	0.00
22	TP	Diisopropyl ether		1.236	1.217	1.5	92	0.00
23	TP	1,1-Dichloroethane		0.653	0.587	10.1	84	0.00
24	TP	Halothane		0.197	0.180	8.6	84	0.00
25	TP	Acrylonitrile		0.120	0.127	-5.8	95	0.00
26	TP	Ethyl tert-butyl ether		1.167	1.194	-2.3	96	0.00
27	TP	Vinyl acetate		0.617	0.623	-1.0	89	0.00
28	TP	cis-1,2-Dichloroethene		0.292	0.274	6.2	87	0.00
29	TP	2,2-Dichloropropane		0.365	0.308	15.6	80	0.00
30	TP	Bromochloromethane		0.140	0.142	-1.4	93	0.00
31	TP	Cyclohexane		0.634	0.588	7.3	86	0.00
32	TC	Chloroform		0.475	0.444	6.5	89	0.00
33	TP	Ethyl acetate		0.306	0.302	1.3	87	0.00
34	TP	Carbon tetrachloride		0.326	0.281	13.8	81	0.00
35	TP	Tetrahydrofuran		0.099	0.107	-8.1	98	0.00
36	S	Dibromofluoromethane		0.255	0.258	-1.2	103	0.00
37	TP	1,1,1-Trichloroethane		0.383	0.334	12.8	81	0.00
39	TP	2-Butanone		0.151	0.149	1.3	85	0.00
40	TP	1,1-Dichloropropene		0.322	0.297	7.8	84	0.00
41	TP	Benzene		1.043	0.933	10.5	85	0.00
42	TP	tert-Amyl methyl ether		0.713	0.741	-3.9	97	0.00

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA104\2018\181029N\
Data File : V04181029N15.D
Acq On : 30 Oct 2018 4:26 am
Operator : VOA104:JC
Sample : C8260STDL3
Misc : WG1173809,ICAL
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 30 09:43:52 2018
Quant Method : I:\VOLATILES\VOA104\2018\181029N\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 30 09:25:47 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.05min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
43	S	1,2-Dichloroethane-d4	0.289	0.280	3.1	99	0.00
44	TP	1,2-Dichloroethane	0.414	0.405	2.2	92	0.00
47	TP	Methyl cyclohexane	0.396	0.356	10.1	83	0.00
48	TP	Trichloroethene	0.277	0.261	5.8	87	0.00
50	TP	Dibromomethane	0.160	0.161	-0.6	91	0.00
51	TC	1,2-Dichloropropane	0.393	0.370	5.9	89	0.00
53	TP	2-Chloroethyl vinyl ether	0.204	0.181	11.3	86	0.00
54	TP	Bromodichloromethane	0.354	0.355	-0.3	91	0.00
57	TP	1,4-Dioxane	*1000.000	900.486	10.0	84	0.00
58	TP	cis-1,3-Dichloropropene	0.404	0.399	1.2	88	0.00
59	I	Chlorobenzene-d5	1.000	1.000	0.0	102	0.00
60	S	Toluene-d8	1.326	1.316	0.8	101	0.00
61	TC	Toluene	0.892	0.838	6.1	89	0.00
62	TP	4-Methyl-2-pentanone	0.199	0.193	3.0	86	0.00
63	TP	Tetrachloroethene	0.369	0.337	8.7	83	0.00
65	TP	trans-1,3-Dichloropropene	* 20.000	19.981	0.1	96	0.00
67	TP	Ethyl methacrylate	0.436	0.446	-2.3	96	0.00
68	TP	1,1,2-Trichloroethane	0.273	0.283	-3.7	95	0.00
69	TP	Chlorodibromomethane	0.396	0.407	-2.8	96	0.00
70	TP	1,3-Dichloropropane	0.518	0.545	-5.2	97	0.00
71	TP	1,2-Dibromoethane	0.332	0.336	-1.2	95	0.00
72	TP	2-Hexanone	0.312	0.287	8.0	88	0.00
73	TP	Chlorobenzene	1.029	0.977	5.1	90	0.00
74	TC	Ethylbenzene	1.704	1.592	6.6	87	0.00
75	TP	1,1,1,2-Tetrachloroethane	0.368	0.372	-1.1	93	0.00
76	TP	p/m Xylene	0.641	0.613	4.4	87	0.00
77	TP	o Xylene	0.631	0.607	3.8	88	0.00
78	TP	Styrene	1.031	1.045	-1.4	92	0.00
79	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	101	0.00
80	TP	Bromoform	0.488	0.514	-5.3	97	0.00
82	TP	Isopropylbenzene	3.337	3.048	8.7	86	0.00
83	S	4-Bromofluorobenzene	0.965	0.958	0.7	100	0.00
84	TP	Bromobenzene	0.866	0.870	-0.5	93	0.00
85	TP	n-Propylbenzene	3.933	3.614	8.1	86	0.00
86	TP	1,4-Dichlorobutane	1.660	1.731	-4.3	97	0.00
87	TP	1,1,2,2-Tetrachloroethane	0.840	0.853	-1.5	92	0.00
88	TP	4-Ethyltoluene	3.218	2.981	7.4	87	0.00

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA104\2018\181029N\
Data File : V04181029N15.D
Acq On : 30 Oct 2018 4:26 am
Operator : VOA104:JC
Sample : C8260STDL3
Misc : WG1173809,ICAL
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 30 09:43:52 2018
Quant Method : I:\VOLATILES\VOA104\2018\181029N\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 30 09:25:47 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.05min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
89 TP	2-Chlorotoluene	2.408	2.193	8.9	87	0.00
90 TP	1,3,5-Trimethylbenzene	2.859	2.632	7.9	88	0.00
91 TP	1,2,3-Trichloropropane	0.640	0.662	-3.4	96	0.00
92 TP	trans-1,4-Dichloro-2-butene	0.290	0.306	-5.5	98	0.00
93 TP	4-Chlorotoluene	2.415	2.332	3.4	89	0.00
94 TP	tert-Butylbenzene	2.341	2.148	8.2	87	0.00
97 TP	1,2,4-Trimethylbenzene	2.829	2.723	3.7	91	0.00
98 TP	sec-Butylbenzene	3.613	3.209	11.2	84	0.00
99 TP	p-Isopropyltoluene	3.000	2.790	7.0	88	0.00
100 TP	1,3-Dichlorobenzene	1.602	1.532	4.4	89	0.00
101 TP	1,4-Dichlorobenzene	1.693	1.567	7.4	90	0.00
102 TP	p-Diethylbenzene	1.741	1.511	13.2	81	0.00
103 TP	n-Butylbenzene	2.791	2.461	11.8	82	0.00
104 TP	1,2-Dichlorobenzene	1.537	1.526	0.7	92	0.00
105 TP	1,2,4,5-Tetramethylbenzene	2.808	2.607	7.2	87	0.00
106 TP	1,2-Dibromo-3-chloropropane *	20.000	19.631	1.8	94	0.00
107 TP	1,3,5-Trichlorobenzene	1.103	1.029	6.7	86	0.00
108 TP	Hexachlorobutadiene	0.501	0.434	13.4	82	0.00
109 TP	1,2,4-Trichlorobenzene	1.041	0.990	4.9	87	0.00
110 TP	Naphthalene	2.625	2.702	-2.9	94	0.00
111 TP	1,2,3-Trichlorobenzene	0.997	0.976	2.1	90	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 2 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2018\181029N\
Data File : V04181029N15.D
Acq On : 30 Oct 2018 4:26 am
Operator : VOA104:JC
Sample : C8260STDL3
Misc : WG1173809,ICAL
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 30 09:43:52 2018
Quant Method : I:\VOLATILES\VOA104\2018\181029N\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 30 09:25:47 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2018\181029N\V04181029N07.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.875	96	138389	20.000	ug/L	0.00
Standard Area 1 = 137158			Recovery = 100.90%			
59) Chlorobenzene-d5	9.388	117	100859	20.000	ug/L	0.00
Standard Area 1 = 99217			Recovery = 101.65%			
79) 1,4-Dichlorobenzene-d4	12.120	152	50532	20.000	ug/L	0.00
Standard Area 1 = 50228			Recovery = 100.61%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.084	113	35719	20.274	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 101.37%			
43) 1,2-Dichloroethane-d4	5.603	65	38790	19.417	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 97.09%			
60) Toluene-d8	7.548	98	132760	19.847	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 99.24%			
83) 4-Bromofluorobenzene	10.898	95	48432	19.874	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 99.37%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.613	85	27463	17.263	ug/L	98
3) Chloromethane	1.791	50	61553	18.952	ug/L	98
4) Vinyl chloride	1.859	62	39881	16.867	ug/L	99
5) Bromomethane	2.163	94	20694	21.105	ug/L	98
6) Chloroethane	2.273	64	17484	16.415	ug/L	93
7) Trichlorofluoromethane	2.399	101	30321	17.282	ug/L	99
8) Ethyl ether	2.693	74	13027	20.358	ug/L #	71
10) 1,1-Dichloroethene	2.871	96	19675	17.605	ug/L #	73
11) Carbon disulfide	2.897	76	72436	19.007	ug/L	99
12) Freon-113	2.902	101	27086	22.250	ug/L	94
13) Iodomethane	3.007	142	8387M1	10.127	ug/L	
14) Acrolein	3.201	56	8798	25.183	ug/L	100
15) Methylene chloride	3.416	84	37509	18.080	ug/L	72
17) Acetone	3.479	43	11616	18.957	ug/L #	85
18) trans-1,2-Dichloroethene	3.563	96	31981	17.641	ug/L	78
19) Methyl acetate	3.584	43	34383	20.051	ug/L #	90
20) Methyl tert-butyl ether	3.663	73	95238	19.943	ug/L #	87
21) tert-Butyl alcohol	3.783	59	29813	103.166	ug/L	94
22) Diisopropyl ether	4.004	45	168378	19.688	ug/L	92
23) 1,1-Dichloroethane	4.135	63	81289	17.982	ug/L	96
24) Halothane	4.192	117	24893	18.247	ug/L	98

Data Path : I:\VOLATILES\VOA104\2018\181029N\
Data File : V04181029N15.D
Acq On : 30 Oct 2018 4:26 am
Operator : VOA104:JC
Sample : C8260STDL3
Misc : WG1173809,ICAL
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 30 09:43:52 2018
Quant Method : I:\VOLATILES\VOA104\2018\181029N\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 30 09:25:47 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2018\181029N\V04181029N07.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	4.203	53	17524	21.079	ug/L	#	92
26) Ethyl tert-butyl ether	4.344	59	165303	20.462	ug/L		89
27) Vinyl acetate	4.371	43	86225	20.181	ug/L	#	96
28) cis-1,2-Dichloroethene	4.648	96	37874	18.747	ug/L	#	79
29) 2,2-Dichloropropane	4.738	77	42582	16.839	ug/L		93
30) Bromochloromethane	4.837	128	19625	20.271	ug/L	#	71
31) Cyclohexane	4.821	56	81369	18.534	ug/L		71
32) Chloroform	4.905	83	61379	18.687	ug/L		97
33) Ethyl acetate	5.021	43	41828	19.729	ug/L	#	95
34) Carbon tetrachloride	5.026	117	38821	17.217	ug/L		99
35) Tetrahydrofuran	5.063	42	14798M1	21.573	ug/L		
37) 1,1,1-Trichloroethane	5.094	97	46244	17.430	ug/L		94
39) 2-Butanone	5.209	43	20642M1	19.774	ug/L		
40) 1,1-Dichloropropene	5.215	75	41107	18.445	ug/L		100
41) Benzene	5.456	78	129117	17.894	ug/L	#	92
42) tert-Amyl methyl ether	5.566	73	102478	20.761	ug/L		91
44) 1,2-Dichloroethane	5.671	62	56036	19.551	ug/L		99
47) Methyl cyclohexane	6.022	83	49233	17.956	ug/L	#	60
48) Trichloroethene	6.048	95	36157	18.844	ug/L		97
50) Dibromomethane	6.494	93	22288	20.131	ug/L		96
51) 1,2-Dichloropropane	6.594	63	51173	18.814	ug/L	#	91
53) 2-Chloroethyl vinyl ether	7.286	63	25053	17.711	ug/L	#	96
54) Bromodichloromethane	6.667	83	49088	20.056	ug/L		99
57) 1,4-Dioxane	6.887	88	16618	900.486	ug/L	#	66
58) cis-1,3-Dichloropropene	7.354	75	55158	19.742	ug/L		96
61) Toluene	7.605	92	84554	18.788	ug/L		100
62) 4-Methyl-2-pentanone	8.056	58	19491	19.432	ug/L	#	83
63) Tetrachloroethene	8.051	166	34012	18.298	ug/L		100
65) trans-1,3-Dichloropropene	8.104	75	51279	19.981	ug/L		97
67) Ethyl methacrylate	8.282	69	44934	20.450	ug/L		98
68) 1,1,2-Trichloroethane	8.287	83	28529	20.758	ug/L		99
69) Chlorodibromomethane	8.492	129	41067	20.577	ug/L		98
70) 1,3-Dichloropropane	8.607	76	54956	21.039	ug/L		99
71) 1,2-Dibromoethane	8.769	107	33896	20.225	ug/L		98
72) 2-Hexanone	9.063	43	28922M1	18.363	ug/L		
73) Chlorobenzene	9.409	112	98501	18.974	ug/L		100
74) Ethylbenzene	9.441	91	160556	18.688	ug/L		99
75) 1,1,1,2-Tetrachloroethane	9.493	131	37555	20.211	ug/L		98
76) p/m Xylene	9.629	106	123709	38.282	ug/L		96
77) o Xylene	10.175	106	122364	38.443	ug/L		97

Data Path : I:\VOLATILES\VOA104\2018\181029N\
Data File : V04181029N15.D
Acq On : 30 Oct 2018 4:26 am
Operator : VOA104:JC
Sample : C8260STDL3
Misc : WG1173809,ICAL
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 30 09:43:52 2018
Quant Method : I:\VOLATILES\VOA104\2018\181029N\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 30 09:25:47 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2018\181029N\V04181029N07.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
78) Styrene	10.248	104	210798	40.542	ug/L		98
80) Bromoform	10.279	173	25995	21.075	ug/L		99
82) Isopropylbenzene	10.563	105	154024	18.271	ug/L		100
84) Bromobenzene	11.013	156	43987	20.113	ug/L		97
85) n-Propylbenzene	11.050	91	182622	18.378	ug/L		98
86) 1,4-Dichlorobutane	11.082	55	87446	20.847	ug/L		92
87) 1,1,2,2-Tetrachloroethane	11.155	83	43117	20.314	ug/L		99
88) 4-Ethyltoluene	11.176	105	150637	18.528	ug/L		99
89) 2-Chlorotoluene	11.223	91	110809	18.214	ug/L		100
90) 1,3,5-Trimethylbenzene	11.276	105	132997	18.409	ug/L		100
91) 1,2,3-Trichloropropane	11.291	75	33428	20.661	ug/L		97
92) trans-1,4-Dichloro-2-b...	11.354	53	15450	21.096	ug/L	#	85
93) 4-Chlorotoluene	11.412	91	117840	19.312	ug/L		100
94) tert-Butylbenzene	11.616	119	108525	18.349	ug/L		99
97) 1,2,4-Trimethylbenzene	11.700	105	137616	19.255	ug/L		100
98) sec-Butylbenzene	11.810	105	162153	17.764	ug/L		98
99) p-Isopropyltoluene	11.968	119	140983	18.599	ug/L		99
100) 1,3-Dichlorobenzene	12.041	146	77433	19.129	ug/L		98
101) 1,4-Dichlorobenzene	12.135	146	79196	18.512	ug/L		98
102) p-Diethylbenzene	12.340	119	76372	17.359	ug/L		98
103) n-Butylbenzene	12.403	91	124383	17.638	ug/L		99
104) 1,2-Dichlorobenzene	12.560	146	77109	19.851	ug/L		99
105) 1,2,4,5-Tetramethylben...	13.142	119	131739	18.571	ug/L		98
106) 1,2-Dibromo-3-chloropr...	13.347	155	6949	19.631	ug/L		95
107) 1,3,5-Trichlorobenzene	13.373	180	51978	18.656	ug/L		99
108) Hexachlorobutadiene	13.939	225	21921	17.314	ug/L		99
109) 1,2,4-Trichlorobenzene	13.976	180	50025	19.017	ug/L		100
110) Naphthalene	14.264	128	136545	20.592	ug/L		100
111) 1,2,3-Trichlorobenzene	14.437	180	49297	19.567	ug/L		99

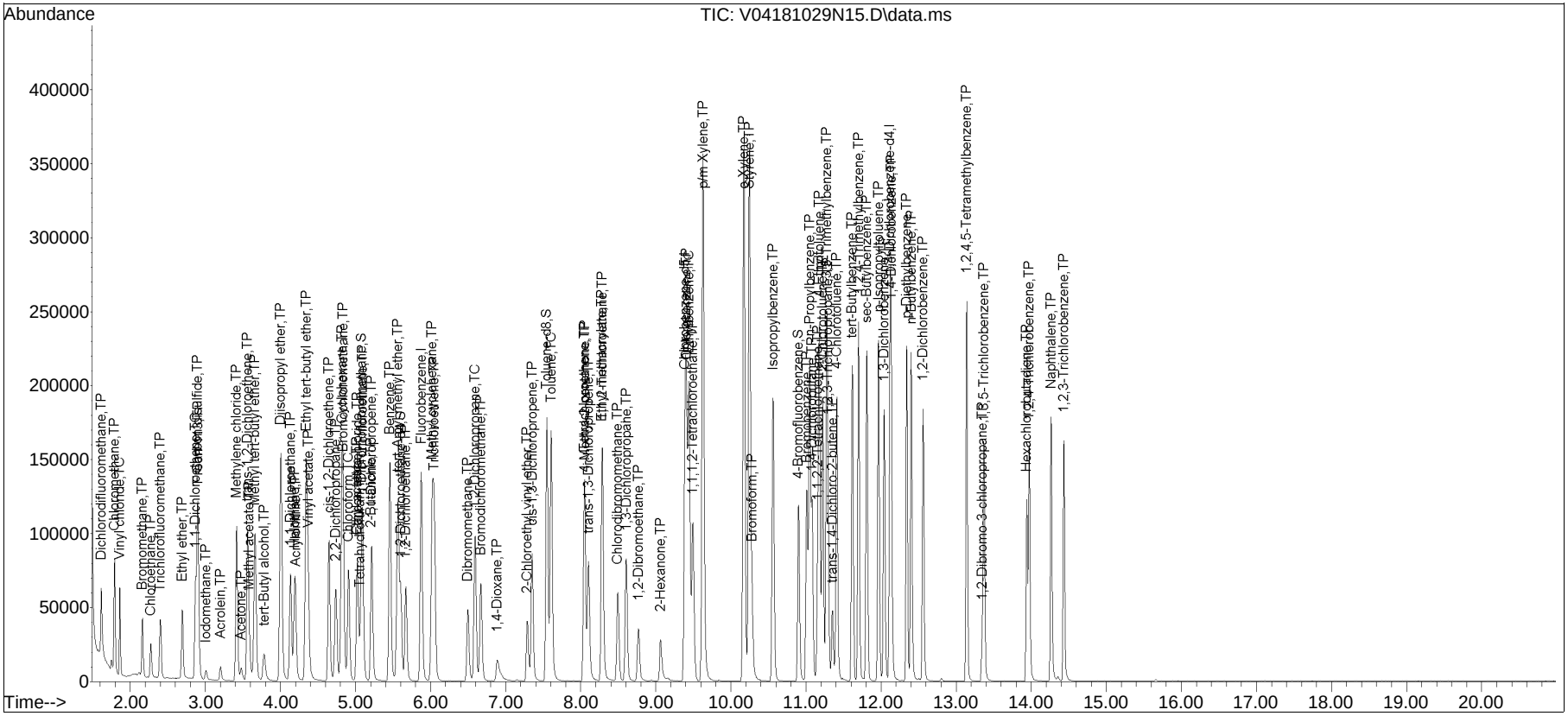
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2018\181029N\
Data File : V04181029N15.D
Acq On : 30 Oct 2018 4:26 am
Operator : VOA104:JC
Sample : C8260STDL3
Misc : WG1173809,ICAL
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 30 09:43:52 2018
Quant Method : I:\VOLATILES\VOA104\2018\181029N\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 30 09:25:47 2018
Response via : Initial Calibration

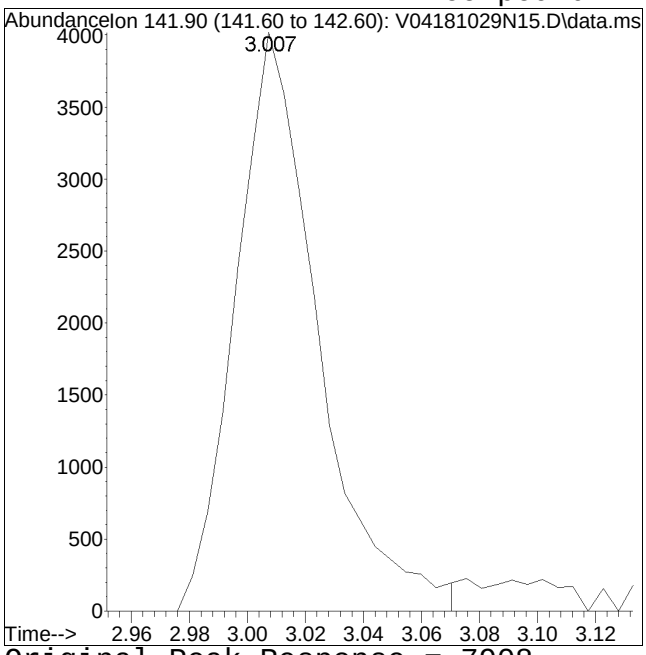
Sub List : 8260-Curve - Megamix plus Diox81029N\V04181029N07.D•

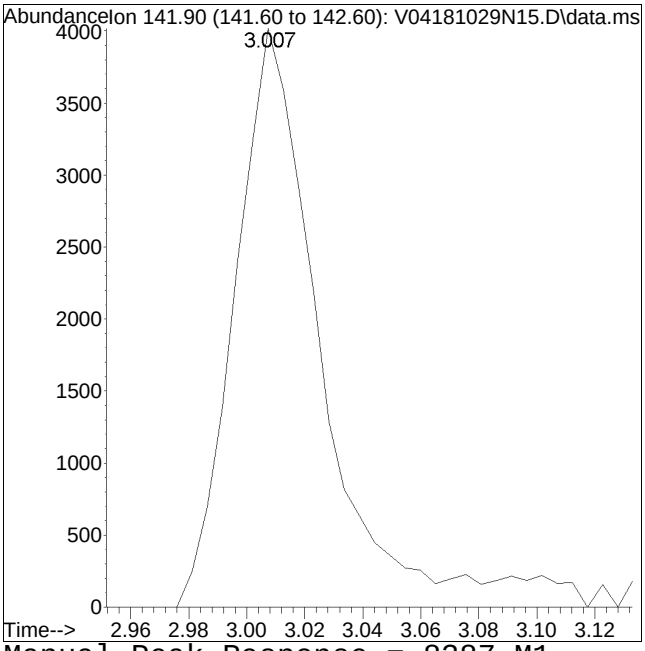


Manual Integration Report

Data Path : I:\VOLATILES\VOA104\2018\1QMethod : V104_181029N_8260.m
Data File : V04181029N15.D Operator : VOA104:JC
Date Inj'd : 10/30/2018 4:26 am Instrument : VOA 104
Sample : C8260STDL3 Quant Date : 10/30/2018 9:27 am

Compound #13: Iodomethane





Original Peak Response = 7908 Manual Peak Response = 8387 M1

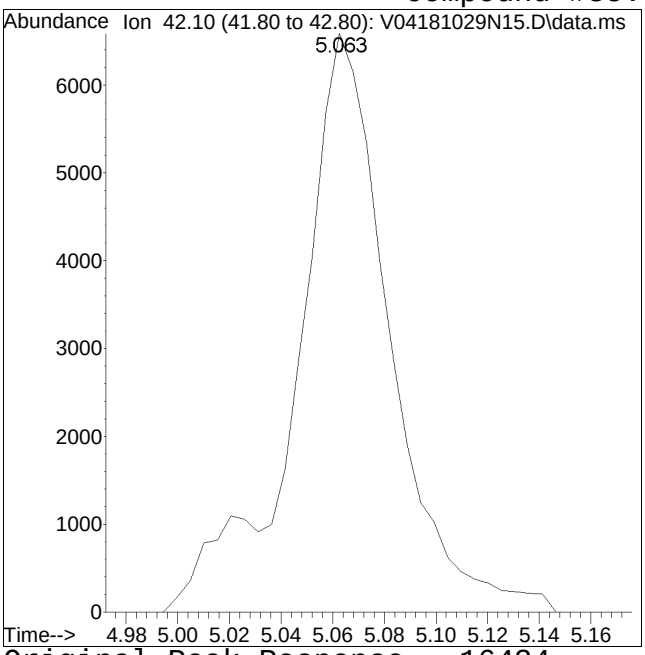
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

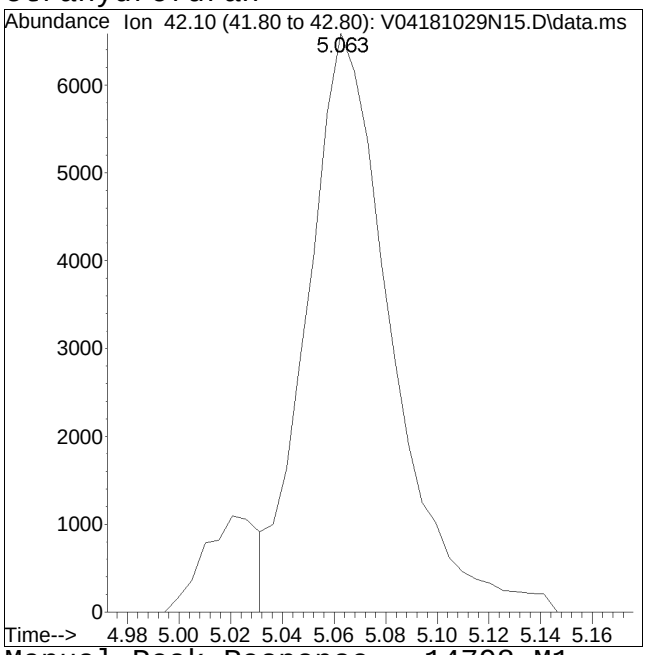
Data Path : I:\VOLATILES\VOA104\2018\1Q
Data File : V04181029N15.D
Date Inj'd : 10/30/2018 4:26 am
Sample : C8260STDL3

Method : V104_181029N_8260.m
Operator : VOA104:JC
Instrument : VOA 104
Quant Date : 10/30/2018 9:27 am

Compound #35: Tetrahydrofuran



Original Peak Response = 16434



Manual Peak Response = 14798 M1

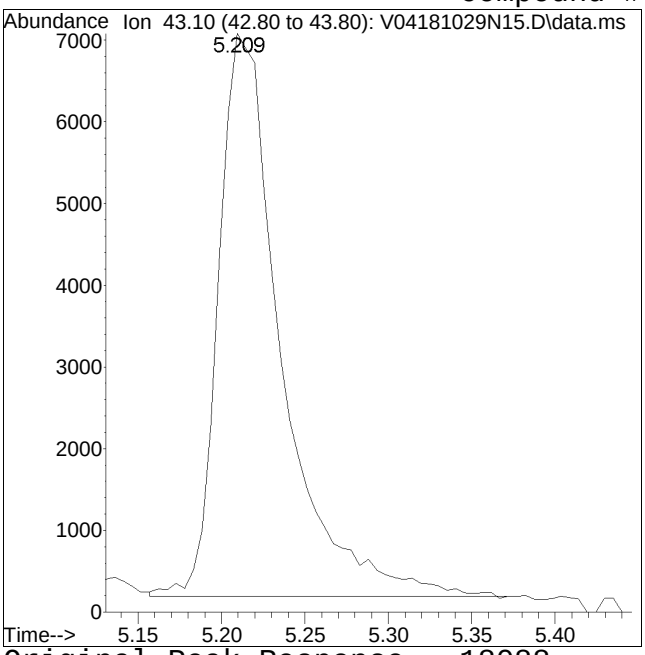
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

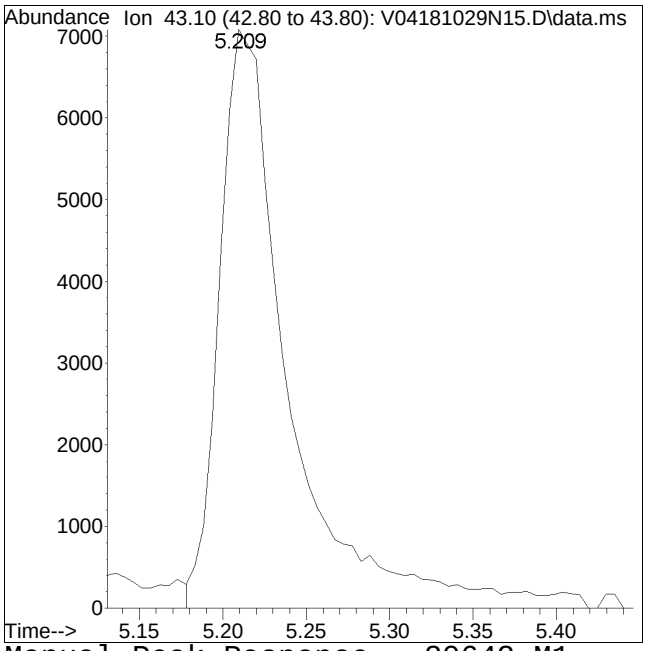
Data Path : I:\VOLATILES\VOA104\2018\1Q
Data File : V04181029N15.D
Date Inj'd : 10/30/2018 4:26 am
Sample : C8260STDL3

Method : V104_181029N_8260.m
Operator : VOA104:JC
Instrument : VOA 104
Quant Date : 10/30/2018 9:27 am

Compound #39: 2-Butanone



Original Peak Response = 18088



Manual Peak Response = 20642 M1

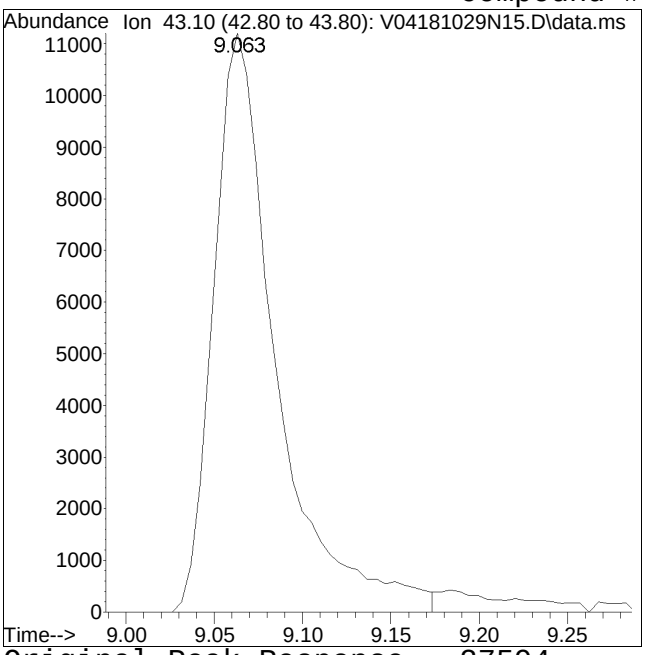
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

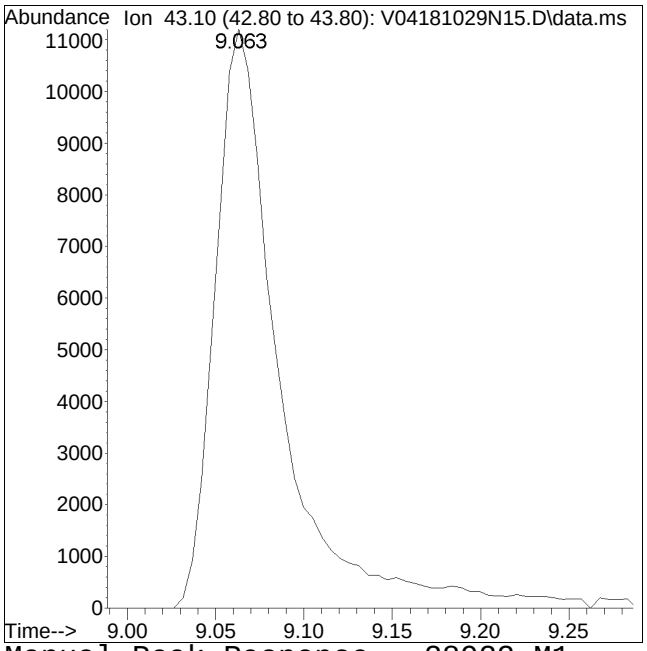
Data Path : I:\VOLATILES\VOA104\2018\1Q
Data File : V04181029N15.D
Date Inj'd : 10/30/2018 4:26 am
Sample : C8260STDL3

Method : V104_181029N_8260.m
Operator : VOA104:JC
Instrument : VOA 104
Quant Date : 10/30/2018 9:27 am

Compound #72: 2-Hexanone



Original Peak Response = 27594



Manual Peak Response = 28922 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Response Factor Report VOA111

Method Path : I:\VOLATILES\VOA111\2018\181115N\
Method File : V111_181115N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Mon Nov 19 17:40:28 2018
Response Via : Initial Calibration

Calibration Files
L1 =V11181115N04.D L2 =V11181115N06.D L3 =V11181115N07.D L4 =V11181115N08.D L1.5=V11181115N05.D
L6 =V11181115N09.D L7 =V11181115N10.D L8 =V11181115N11.D L0 =V11181115N03.D

		Compound	L1	L2	L3	L4	L1.5	L6	L7	L8	L0	Avg	%RSD
1)	I	Fluorobenzene	ISTD										
2)	T	Dichlorodifluo...		0.205	0.191	0.187	0.175	0.183	0.173	0.170		0.184	6.67
3)	T	Chloromethane	0.266	0.275	0.251	0.258	0.263	0.249	0.238	0.237		0.255	5.27
4)	C	Vinyl chloride	0.135	0.206	0.186	0.191	0.166	0.187	0.182	0.180		0.179	11.83
5)	T	Bromomethane		0.211	0.179	0.160	0.204	0.139	0.138	0.141		*Q	0.9977
6)	T	Chloroethane	0.086	0.133	0.125	0.130	0.117	0.128	0.127	0.125		0.121	12.50
7)	T	Trichlorofluor...	0.290	0.445	0.393	0.387	0.351	0.373	0.347	0.335		0.365	12.59
8)	T	Ethyl ether	0.111	0.116	0.123	0.127	0.114	0.127	0.126	0.123		0.121	5.18
10)	T	1,1-Dichloroet...	0.174	0.192	0.188	0.189	0.164	0.184	0.179	0.181		0.181	5.07
11)	T	Carbon disulfide		0.630	0.541	0.536	0.691	0.520	0.506	0.511		0.562	12.51
12)	T	Freon-113		0.216	0.200	0.198	0.182	0.194	0.187	0.186		0.195	5.98
13)	T	Iodomethane		0.021	0.080	0.158		0.208	0.215	0.223		*L	0.9917
14)	T	Acrolein			0.029	0.031		0.034	0.034	0.033		0.032	5.90
15)	T	Methylene chlo...	0.289	0.257	0.233	0.245	0.250	0.240	0.235	0.237		0.248	7.30
17)	T	Acetone	0.067	0.070	0.072	0.078	0.069	0.074	0.073	0.067		0.071	5.27
18)	T	trans-1,2-Dich...	0.203	0.253	0.228	0.236	0.232	0.231	0.225	0.228		0.230	6.06
19)	T	Methyl acetate	0.186	0.189	0.200	0.211	0.182	0.212	0.209	0.195		0.198	5.95
20)	T	Methyl tert-bu...	0.712	0.758	0.737	0.775	0.725	0.760	0.757	0.724		0.743	2.97
21)	T	tert-Butyl alc...	0.028	0.032	0.032	0.035	0.030	0.036	0.035	0.032		0.032	8.76
22)	T	Diisopropyl ether	1.158	1.203	1.134	1.174	1.164	1.151	1.109	1.077		1.146	3.41
23)	C	1,1-Dichloroet...	0.514	0.525	0.493	0.523	0.496	0.510	0.496	0.492		0.506	2.66
24)	T	Halothane	0.143	0.196	0.183	0.186	0.189	0.184	0.182	0.181		0.180	8.70
25)	T	Acrylonitrile		0.070	0.089	0.101		0.100	0.101	0.094		0.092	12.91
26)	T	Ethyl tert-but...	1.027	1.052	1.013	1.070	1.018	1.061	1.046	1.003		1.036	2.36
27)	T	Vinyl acetate	0.524	0.631	0.640	0.687	0.593	0.695	0.670	0.632		0.634	8.77
28)	T	cis-1,2-Dichlo...	0.284	0.276	0.272	0.286	0.266	0.276	0.274	0.272		0.276	2.28
29)	T	2,2-Dichloropr...	0.434	0.478	0.433	0.445	0.441	0.428	0.409	0.399		0.433	5.52
30)	T	Bromochloromet...	0.126	0.134	0.138	0.144	0.132	0.138	0.135	0.131		0.135	3.98
31)	T	Cyclohexane	0.387	0.505	0.467	0.467	0.458	0.463	0.450	0.438		0.455	7.34
32)	C	Chloroform	0.538	0.533	0.504	0.517	0.506	0.503	0.486	0.473		0.508	4.26
33)	T	Ethyl acetate	0.204	0.282	0.287	0.307	0.250	0.309	0.307	0.278		0.278	12.89

Response Factor Report VOA111

Method Path : I:\VOLATILES\VOA111\2018\181115N\
Method File : V111_181115N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Mon Nov 19 17:40:28 2018
Response Via : Initial Calibration

Calibration Files
L1 =V11181115N04.D L2 =V11181115N06.D L3 =V11181115N07.D L4 =V11181115N08.D L1.5=V11181115N05.D
L6 =V11181115N09.D L7 =V11181115N10.D L8 =V11181115N11.D L0 =V11181115N03.D

		Compound	L1	L2	L3	L4	L1.5	L6	L7	L8	L0	Avg	%RSD
34)	T	Carbon tetrach...	0.258	0.409	0.417	0.423	0.339	0.415	0.397	0.381	0.380	14.83	
35)	T	Tetrahydrofuran	0.081	0.082	0.101	0.103	0.072	0.104	0.101	0.092	0.092	13.10	
36)	S	Dibromofluorom...	0.266	0.265	0.272	0.267	0.270	0.265	0.272	0.263	0.266	0.267	1.26
37)	T	1,1,1-Trichlor...	0.474	0.484	0.470	0.475	0.466	0.464	0.440	0.423	0.377	0.452	7.54
39)	T	2-Butanone		0.111	0.127	0.125	0.103	0.126	0.126	0.114		0.119	7.99
40)	T	1,1-Dichloropr...	0.291	0.331	0.312	0.318	0.299	0.313	0.306	0.302	0.258	0.303	6.76
41)	T	Benzene	0.970	0.985	0.942	0.964	0.928	0.951	0.936	0.934	0.962	0.952	2.00
42)	T	tert-Amyl meth...	0.775	0.787	0.758	0.811	0.743	0.814	0.802	0.774		0.783	3.25
43)	S	1,2-Dichloroet...	0.330	0.328	0.335	0.332	0.332	0.334	0.332	0.315	0.329	0.330	1.84
44)	T	1,2-Dichloroet...	0.453	0.487	0.461	0.486	0.469	0.473	0.448	0.419		0.462	4.80
47)	T	Methyl cyclohe...	0.306	0.397	0.384	0.379	0.327	0.379	0.361	0.368		0.363	8.53
48)	T	Trichloroethene	0.288	0.269	0.265	0.272	0.276	0.266	0.255	0.255	0.243	0.265	4.96
50)	T	Dibromomethane	0.132	0.152	0.158	0.164	0.140	0.168	0.162	0.159		0.154	8.13
51)	C	1,2-Dichloropr...	0.247	0.286	0.288	0.298	0.268	0.293	0.282	0.289		0.281	5.90
53)	T	2-Chloroethyl ...		0.099	0.122	0.127		0.118	0.101	0.087		0.109	14.52
54)	T	Bromodichlorom...	0.391	0.424	0.417	0.431	0.381	0.429	0.411	0.408	0.372	0.407	5.21
57)	T	1,4-Dioxane	0.001	0.002	0.003	0.003	0.002	0.003	0.003	0.003		*L	0.9990
58)	T	cis-1,3-Dichlo...	0.430	0.426	0.444	0.458	0.418	0.462	0.452	0.453	0.363	0.434	7.05
59)	I	Chlorobenzene-d5	----------	ISTD	----------								
60)	S	Toluene-d8	1.217	1.199	1.196	1.198	1.188	1.188	1.188	1.185	1.202	1.196	0.83
61)	C	Toluene	0.755	0.804	0.736	0.774	0.783	0.768	0.723	0.742		0.761	3.50
62)	T	4-Methyl-2-pen...		0.101	0.117	0.128		0.134	0.132	0.126		0.123	9.98
63)	T	Tetrachloroethene	0.313	0.350	0.327	0.327	0.326	0.327	0.307	0.311	0.255	0.316	8.31
65)	T	trans-1,3-Dich...	0.402	0.494	0.494	0.531	0.441	0.533	0.510	0.509		0.489	9.31
67)	T	Ethyl methacry...		0.312	0.340	0.376		0.391	0.384	0.378		0.364	8.43
68)	T	1,1,2-Trichlor...	0.204	0.213	0.207	0.223	0.188	0.225	0.217	0.218		0.212	5.61
69)	T	Chlorodibromom...	0.328	0.365	0.365	0.390	0.334	0.397	0.378	0.376		0.367	6.72
70)	T	1,3-Dichloropr...	0.434	0.458	0.434	0.470	0.423	0.472	0.457	0.453		0.450	3.99
71)	T	1,2-Dibromoethane	0.213	0.271	0.270	0.284	0.250	0.290	0.279	0.275		0.266	9.20
72)	T	2-Hexanone	0.014	0.143	0.218	0.237	0.111	0.251	0.243	0.228		*L	0.9981
73)	T	Chlorobenzene	1.015	0.946	0.886	0.919	0.918	0.922	0.869	0.895	0.957	0.925	4.71

Response Factor Report VOA111

Method Path : I:\VOLATILES\VOA111\2018\181115N\
Method File : V111_181115N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Mon Nov 19 17:40:28 2018
Response Via : Initial Calibration

Calibration Files
L1 =V11181115N04.D L2 =V11181115N06.D L3 =V11181115N07.D L4 =V11181115N08.D L1.5=V11181115N05.D
L6 =V11181115N09.D L7 =V11181115N10.D L8 =V11181115N11.D L0 =V11181115N03.D

		Compound	L1	L2	L3	L4	L1.5	L6	L7	L8	L0	Avg	%RSD
74)	C	Ethylbenzene	1.494	1.577	1.477	1.536	1.438	1.539	1.446	1.470		1.497	3.30
75)	T	1,1,1,2-Tetrac...	0.338	0.377	0.361	0.386	0.358	0.392	0.365	0.366	0.312	0.362	6.82
76)	T	p/m Xylene	0.577	0.615	0.587	0.610	0.586	0.613	0.570	0.579		0.592	2.99
77)	T	o Xylene	0.595	0.603	0.584	0.605	0.579	0.612	0.568	0.576	0.609	0.592	2.65
78)	T	Styrene	0.923	1.009	0.990	1.061	0.939	1.065	0.998	1.007	0.865	0.984	6.59
79)	I	1,4-Dichlorobenzene-d4	----------ISTD----------										
80)	T	Bromoform	0.322	0.393	0.399	0.427	0.350	0.441	0.429	0.437		0.400	10.87
82)	T	Isopropylbenzene	2.829	3.010	2.747	2.764	2.780	2.803	2.660	2.760		2.794	3.59
83)	S	4-Bromofluorob...	0.949	0.933	0.920	0.894	0.937	0.913	0.924	0.942	0.943	0.928	1.88
84)	T	Bromobenzene	0.707	0.765	0.718	0.737	0.760	0.742	0.711	0.739		0.735	2.93
85)	T	n-Propylbenzene	3.306	3.407	3.203	3.231	3.240	3.250	3.087	3.222		3.243	2.79
86)	T	1,4-Dichlorobu...	1.134	1.162	1.133	1.173	1.086	1.191	1.137	1.125		1.142	2.84
87)	T	1,1,2,2-Tetrac...	0.578	0.616	0.584	0.618	0.595	0.640	0.626	0.635	0.506	0.600	6.88
88)	T	4-Ethyltoluene	2.850	3.060	2.826	2.878	2.817	2.896	2.758	2.876		2.870	3.07
89)	T	2-Chlorotoluene	2.481	2.524	2.313	2.367	2.435	2.391	2.265	2.351		2.391	3.60
90)	T	1,3,5-Trimethy...	2.680	2.610	2.451	2.485	2.518	2.495	2.351	2.443		2.504	4.07
91)	T	1,2,3-Trichlor...	0.479	0.516	0.511	0.532	0.519	0.529	0.514	0.510		0.514	3.17
92)	T	trans-1,4-Dich...		0.191	0.222	0.246		0.257	0.246	0.236		0.233	10.25
93)	T	4-Chlorotoluene	2.266	2.231	2.138	2.147	2.149	2.150	2.044	2.115		2.155	3.16
94)	T	tert-Butylbenzene	2.093	2.231	2.091	2.109	2.125	2.118	2.002	2.056		2.103	3.10
97)	T	1,2,4-Trimethy...	2.536	2.601	2.467	2.571	2.463	2.581	2.437	2.522		2.522	2.41
98)	T	sec-Butylbenzene	3.018	3.251	3.050	3.025	2.981	3.054	2.881	2.950		3.026	3.55
99)	T	p-Isopropyltol...	2.650	2.820	2.723	2.789	2.641	2.775	2.609	2.668		2.710	2.89
100)	T	1,3-Dichlorobe...	1.566	1.515	1.419	1.471	1.411	1.474	1.381	1.426		1.458	4.18
101)	T	1,4-Dichlorobe...	1.599	1.580	1.482	1.500	1.463	1.507	1.419	1.469		1.503	4.02
102)	T	p-Diethylbenzene	1.660	1.719	1.650	1.722	1.659	1.720	1.617	1.657		1.675	2.37
103)	T	n-Butylbenzene	2.230	2.592	2.455	2.498	2.426	2.489	2.347	2.406		2.430	4.47
104)	T	1,2-Dichlorobe...	1.281	1.427	1.362	1.424	1.316	1.427	1.354	1.383		1.372	3.96
105)	T	1,2,4,5-Tetram...	2.686	2.853	2.783	2.887	2.733	2.954	2.789	2.864		2.818	3.10
106)	T	1,2-Dibromo-3-...	0.026	0.080	0.102	0.116	0.045	0.117	0.118	0.115		*L	0.9995
107)	T	1,3,5-Trichlor...	1.057	1.120	1.054	1.096	1.054	1.100	1.022	1.055		1.070	3.03

Method Path : I:\VOLATILES\VOA111\2018\181115N\
Method File : V111_181115N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Mon Nov 19 17:40:28 2018
Response Via : Initial Calibration

Calibration Files
L1 =V11181115N04.D L2 =V11181115N06.D L3 =V11181115N07.D L4 =V11181115N08.D L1.5=V11181115N05.D
L6 =V11181115N09.D L7 =V11181115N10.D L8 =V11181115N11.D L0 =V11181115N03.D

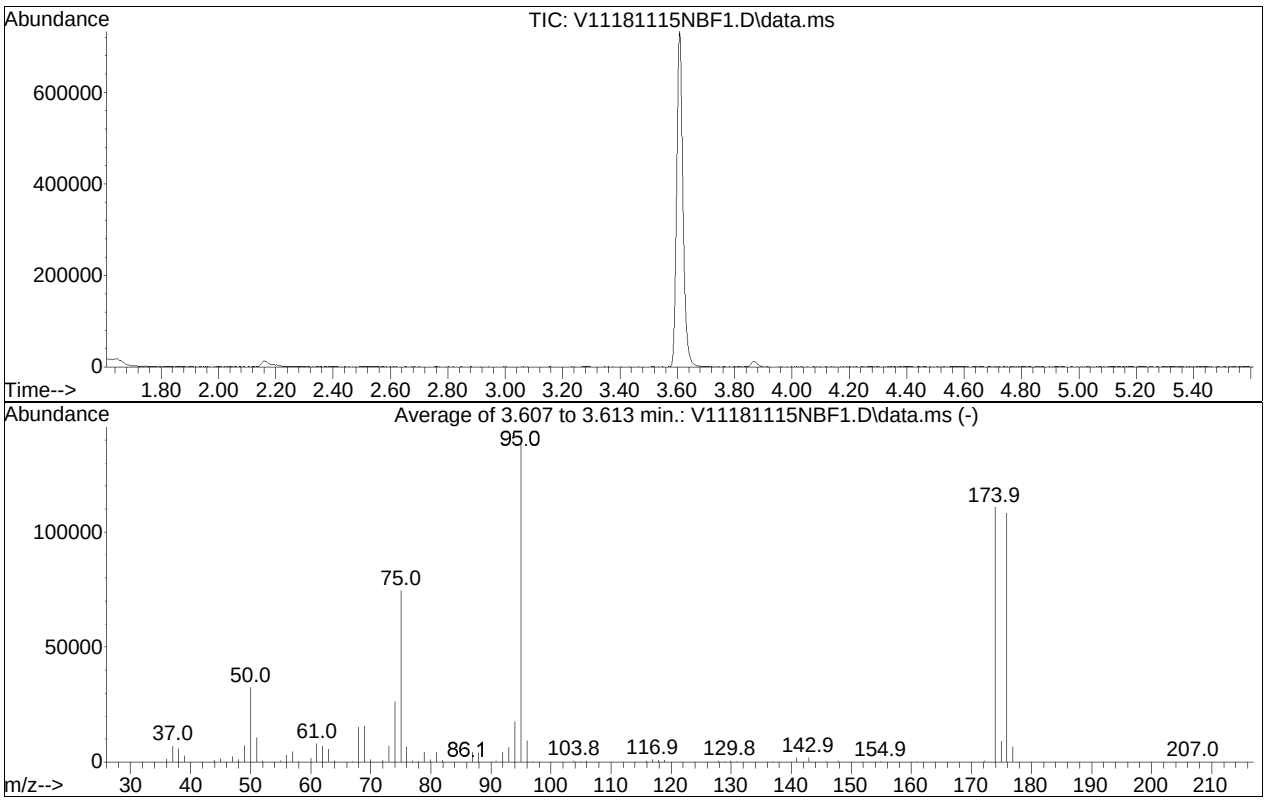
	Compound	L1	L2	L3	L4	L1.5	L6	L7	L8	L0	Avg	%RSD
108) T	Hexachlorobuta...	0.395	0.505	0.471	0.465	0.440	0.463	0.434	0.444		0.452	7.12
109) T	1,2,4-Trichlor...	0.872	0.943	0.930	0.985	0.870	1.013	0.948	0.973		0.942	5.40
110) T	Naphthalene	2.105	2.145	2.139	2.329	2.120	2.435	2.368	2.356		2.250	5.98
111) T	1,2,3-Trichlor...	0.892	0.908	0.856	0.916	0.855	0.930	0.881	0.900		0.892	3.02

(#) = Out of Range

Data Path : I:\VOLATILES\VOA111\2018\181115N\
Data File : V11181115NBF1.D
Acq On : 15 Nov 2018 08:28 pm
Operator : VOA111:JC
Sample : WG1180957-1
Misc : WG1180957,ICAL
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\VOLATILES\VOA111\2018\181115N\V111_181115N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Mon Nov 19 11:25:50 2018



Spectrum Information: Average of 3.607 to 3.613 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.3	32411	PASS
75	95	30	60	53.7	74560	PASS
95	95	100	100	100.0	138851	PASS
96	95	5	9	6.7	9251	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	80.0	111027	PASS
175	174	5	9	8.2	9139	PASS
176	174	95	101	97.5	108301	PASS
177	176	5	9	6.3	6816	PASS

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2018\181115N\
Data File : V11181115N03.D
Acq On : 15 Nov 2018 09:43 pm
Operator : VOA111:JC
Sample : I8260STDL0
Misc : WG1180957,ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 19 11:04:11 2018
Quant Method : I:\VOLATILES\VOA111\2018\181115N\V111_181115N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 19 11:00:06 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2018\181115N\V11181115N07.D
Sub List : 8260-L0_soils - Only for SOILS Level 0

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.549	96	91481	20.000	ug/L	0.00
Standard Area 1 = 89175			Recovery = 102.59%			
59) Chlorobenzene-d5	9.020	117	77723	20.000	ug/L	0.00
Standard Area 1 = 77380			Recovery = 100.44%			
79) 1,4-Dichlorobenzene-d4	11.830	152	40452	20.000	ug/L	0.00
Standard Area 1 = 42944			Recovery = 94.20%			
System Monitoring Compounds						
36) Dibromofluoromethane	4.773	113	24371	21.776	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 108.88%			
43) 1,2-Dichloroethane-d4	5.276	65	30138	23.385	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 116.93%			
60) Toluene-d8	7.205	98	93426	18.831	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 94.16%			
83) 4-Bromofluorobenzene	10.566	95	38138	20.115	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 100.57%			
Target Compounds						Qvalue
37) 1,1,1-Trichloroethane	4.794	97	862	0.511	ug/L #	71
40) 1,1-Dichloropropene	4.909	75	590	0.459	ug/L #	57
41) Benzene	5.145	78	2199	0.524	ug/L #	78
48) Trichloroethene	5.727	95	556	0.526	ug/L #	82
54) Bromodichloromethane	6.340	83	851	0.573	ug/L #	63
58) cis-1,3-Dichloropropene	7.006	75	831	0.485	ug/L #	74
63) Tetrachloroethene	7.709	166	495	0.403	ug/L #	63
73) Chlorobenzene	9.041	112	1859	0.543	ug/L #	54
75) 1,1,1,2-Tetrachloroethane	9.130	131	606	0.476	ug/L #	65
77) o Xylene	9.827	106	2365	1.161	ug/L	100
78) Styrene	9.900	104	3363	1.008	ug/L	98
87) 1,1,2,2-Tetrachloroethane	10.834	83	512	0.382	ug/L #	66

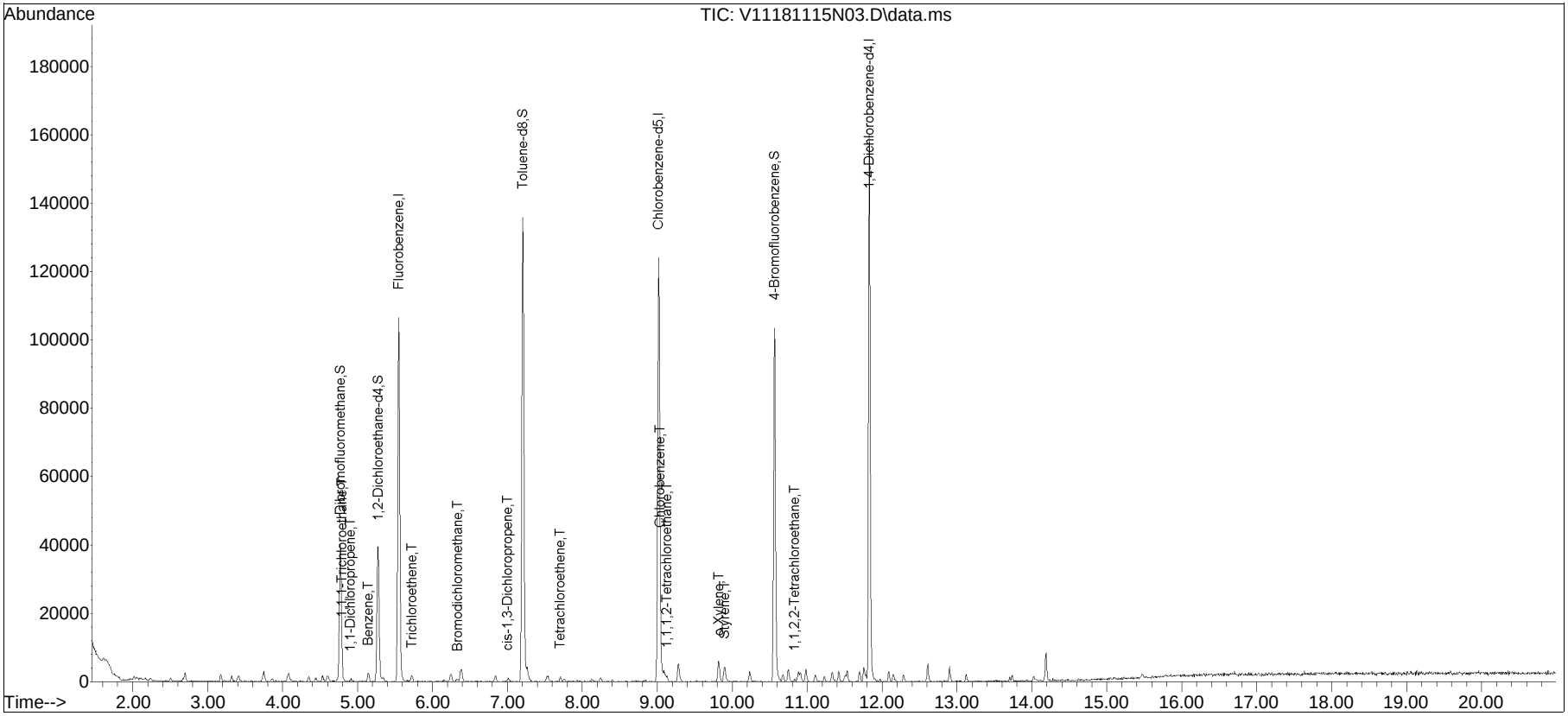
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2018\181115N\
Data File : V11181115N03.D
Acq On : 15 Nov 2018 09:43 pm
Operator : VOA111:JC
Sample : I8260STDL0
Misc : WG1180957,ICAL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 19 11:04:11 2018
Quant Method : I:\VOLATILES\VOA111\2018\181115N\V111_181115N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 19 11:00:06 2018
Response via : Initial Calibration

Sub List : 8260-L0_soils - Only for SOILS Level 011181115N07.D•



Manual Integration Report

Data Path	: I:\VOLATILES\VOA111\2018\1	QMethod	: V111_181115N_8260.m
Data File	: V11181115N03.D	Operator	: VOA111:JC
Date Inj'd	: 11/15/2018 9:43 pm	Instrument	: VOA111
Sample	: I8260STDL0	Quant Date	: 11/19/2018 11:00 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2018\181115N\
Data File : V11181115N04.D
Acq On : 15 Nov 2018 10:09 pm
Operator : VOA111:JC
Sample : I8260STDL1
Misc : WG1180957,ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 19 11:05:46 2018
Quant Method : I:\VOLATILES\VOA111\2018\181115N\V111_181115N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 19 11:00:06 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2018\181115N\V11181115N07.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.549	96	90851	20.000	ug/L	0.00
Standard Area 1 = 89175			Recovery = 101.88%			
59) Chlorobenzene-d5	9.020	117	76559	20.000	ug/L	0.00
Standard Area 1 = 77380			Recovery = 98.94%			
79) 1,4-Dichlorobenzene-d4	11.830	152	40344	20.000	ug/L	0.00
Standard Area 1 = 42944			Recovery = 93.95%			
System Monitoring Compounds						
36) Dibromofluoromethane	4.773	113	24168	21.745	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 108.73%			
43) 1,2-Dichloroethane-d4	5.276	65	29974	23.419	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 117.10%			
60) Toluene-d8	7.206	98	93154	19.062	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 95.31%			
83) 4-Bromofluorobenzene	10.566	95	38270	20.239	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 101.20%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.522	85	481	0.425	ug/L #	49
3) Chloromethane	1.706	50	1208	0.670	ug/L #	57
4) Vinyl chloride	1.742	62	612	0.557	ug/L	86
5) Bromomethane	2.015	94	980	1.505	ug/L	95
6) Chloroethane	2.120	64	389	0.721	ug/L #	44
7) Trichlorofluoromethane	2.240	101	1319	0.847	ug/L	90
8) Ethyl ether	2.508	74	504	0.881	ug/L	90
10) 1,1-Dichloroethene	2.675	96	789	0.894	ug/L	96
11) Carbon disulfide	2.702	76	3771	1.274	ug/L #	90
12) Freon-113	2.712	101	550	0.641	ug/L	97
13) Iodomethane	0.000		0	N.D.		
14) Acrolein	0.000		0	N.D.		
15) Methylene chloride	3.179	84	1311	1.114	ug/L	89
17) Acetone	3.226	43	303	0.871	ug/L #	49
18) trans-1,2-Dichloroethene	3.320	96	921	0.901	ug/L	84
19) Methyl acetate	3.336	43	846	0.903	ug/L #	66
20) Methyl tert-butyl ether	3.410	73	3236	1.125	ug/L	94
21) tert-Butyl alcohol	3.499	59	629	5.007	ug/L #	53
22) Diisopropyl ether	3.745	45	5260	1.049	ug/L	97
23) 1,1-Dichloroethane	3.860	63	2334	1.040	ug/L	87
24) Halothane	3.918	117	651	0.865	ug/L #	43

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2018\181115N\
Data File : V11181115N04.D
Acq On : 15 Nov 2018 10:09 pm
Operator : VOA111:JC
Sample : I8260STDL1
Misc : WG1180957,ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 19 11:05:46 2018
Quant Method : I:\VOLATILES\VOA111\2018\181115N\V111_181115N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 19 11:00:06 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2018\181115N\V11181115N07.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	3.913	53	55	0.136	ug/L	#	3
26) Ethyl tert-butyl ether	4.075	59	4665	1.173	ug/L		84
27) Vinyl acetate	4.102	43	2379	0.845	ug/L	#	83
28) cis-1,2-Dichloroethene	4.359	96	1288	1.127	ug/L		92
29) 2,2-Dichloropropane	4.442	77	1972	1.175	ug/L		90
30) Bromochloromethane	4.537	128	574	1.065	ug/L		91
31) Cyclohexane	4.532	56	1759	0.852	ug/L		89
32) Chloroform	4.605	83	2442	1.244	ug/L	#	93
33) Ethyl acetate	4.731	43	928	0.737	ug/L	#	71
34) Carbon tetrachloride	4.720	117	1171	0.809	ug/L	#	19
35) Tetrahydrofuran	4.757	42	368	0.862	ug/L	#	55
37) 1,1,1-Trichloroethane	4.794	97	2151	1.284	ug/L	#	91
39) 2-Butanone	4.899	43	206	0.379	ug/L	#	49
40) 1,1-Dichloropropene	4.920	75	1323	1.036	ug/L		87
41) Benzene	5.145	78	4408	1.058	ug/L		96
42) tert-Amyl methyl ether	5.266	73	3521	1.223	ug/L		96
44) 1,2-Dichloroethane	5.334	62	2059	1.230	ug/L	#	94
47) Methyl cyclohexane	5.716	83	1390	0.856	ug/L		94
48) Trichloroethene	5.727	95	1306	1.245	ug/L		90
50) Dibromomethane	6.146	93	600	0.979	ug/L		90
51) 1,2-Dichloropropane	6.257	63	1121	0.879	ug/L		97
53) 2-Chloroethyl vinyl ether	6.954	63	102	0.239	ug/L	#	64
54) Bromodichloromethane	6.330	83	1777	1.206	ug/L	#	88
57) 1,4-Dioxane	6.540	88	97	10.306	ug/L	#	12
58) cis-1,3-Dichloropropene	7.012	75	1952	1.147	ug/L		92
61) Toluene	7.268	92	2891	0.987	ug/L		86
62) 4-Methyl-2-pentanone	0.000		0	N.D.			
63) Tetrachloroethene	7.704	166	1199	0.991	ug/L		91
65) trans-1,3-Dichloropropene	7.761	75	1538	0.868	ug/L		92
67) Ethyl methacrylate	7.950	69	512	0.441	ug/L	#	53
68) 1,1,2-Trichloroethane	7.929	83	782	0.938	ug/L		95
69) Chlorodibromomethane	8.139	129	1257	0.996	ug/L		93
70) 1,3-Dichloropropane	8.238	76	1661	0.961	ug/L		95
71) 1,2-Dibromoethane	8.396	107	816	0.842	ug/L		97
72) 2-Hexanone	8.695	43	52	N.D.			
73) Chlorobenzene	9.041	112	3885	1.151	ug/L	#	81
74) Ethylbenzene	9.093	91	5718	1.033	ug/L		98
75) 1,1,1,2-Tetrachloroethane	9.124	131	1292	1.030	ug/L		91
76) p/m Xylene	9.277	106	4421	2.095	ug/L		90
77) o Xylene	9.817	106	4557	2.272	ug/L		100

Data Path : I:\VOLATILES\VOA111\2018\181115N\
Data File : V11181115N04.D
Acq On : 15 Nov 2018 10:09 pm
Operator : VOA111:JC
Sample : I8260STDL1
Misc : WG1180957,ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 19 11:05:46 2018
Quant Method : I:\VOLATILES\VOA111\2018\181115N\V111_181115N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 19 11:00:06 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2018\181115N\V11181115N07.D
Sub List : 8260-Curve - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
78)	Styrene	9.890	104	7067	2.150	ug/L		96
80)	Bromoform	9.906	173	650	0.833	ug/L		87
82)	Isopropylbenzene	10.236	105	5707	1.020	ug/L		99
84)	Bromobenzene	10.676	156	1426	0.976	ug/L		98
85)	n-Propylbenzene	10.745	91	6668	0.990	ug/L		98
86)	1,4-Dichlorobutane	10.760	55	2287	0.939	ug/L		96
87)	1,1,2,2-Tetrachloroethane	10.839	83	1165	0.872	ug/L	#	89
88)	4-Ethyltoluene	10.876	105	5749	1.042	ug/L		99
89)	2-Chlorotoluene	10.907	91	5005	1.042	ug/L		94
90)	1,3,5-Trimethylbenzene	10.986	105	5407	1.108	ug/L		99
91)	1,2,3-Trichloropropane	10.975	75	966	0.903	ug/L	#	80
92)	trans-1,4-Dichloro-2-b...	11.054	53	97	0.229	ug/L		96
93)	4-Chlorotoluene	11.106	91	4571	1.064	ug/L		98
94)	tert-Butylbenzene	11.332	119	4222	1.034	ug/L		97
97)	1,2,4-Trimethylbenzene	11.421	105	5115	1.052	ug/L		97
98)	sec-Butylbenzene	11.531	105	6088	0.989	ug/L		99
99)	p-Isopropyltoluene	11.699	119	5346	1.019	ug/L		98
100)	1,3-Dichlorobenzene	11.757	146	3159	1.101	ug/L		93
101)	1,4-Dichlorobenzene	11.846	146	3226M3	1.071	ug/L		
102)	p-Diethylbenzene	12.087	119	3349	1.077	ug/L		94
103)	n-Butylbenzene	12.145	91	4498	0.904	ug/L		98
104)	1,2-Dichlorobenzene	12.291	146	2584	0.953	ug/L		98
105)	1,2,4,5-Tetramethylben...	12.900	119	5418	1.062	ug/L		98
106)	1,2-Dibromo-3-chloropr...	13.083	155	53	0.272	ug/L		81
107)	1,3,5-Trichlorobenzene	13.114	180	2132	1.061	ug/L		96
108)	Hexachlorobutadiene	13.707	225	797	0.856	ug/L		93
109)	1,2,4-Trichlorobenzene	13.728	180	1759	0.957	ug/L	#	91
110)	Naphthalene	14.022	128	4247	1.017	ug/L		100
111)	1,2,3-Trichlorobenzene	14.189	180	1799	1.048	ug/L		97

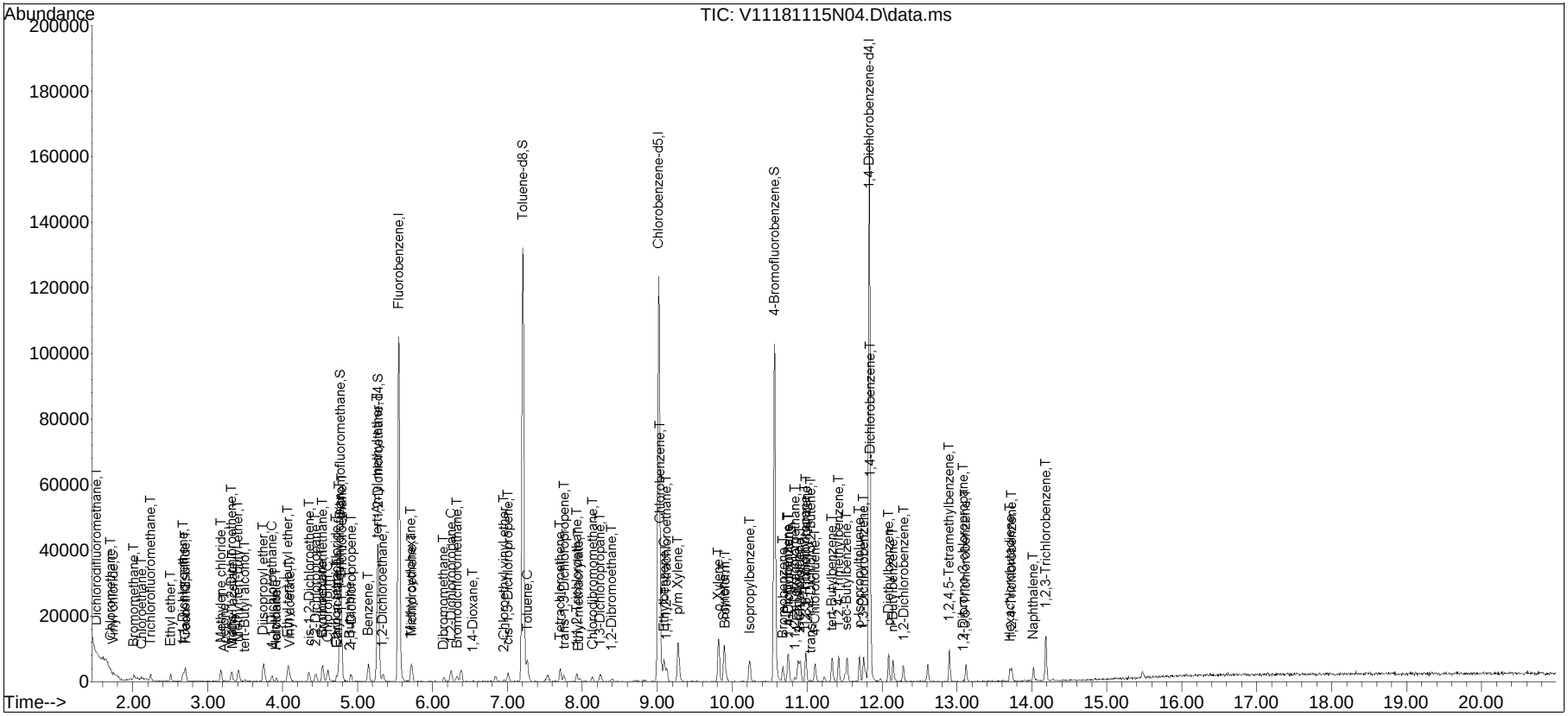
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2018\181115N\
Data File : V11181115N04.D
Acq On : 15 Nov 2018 10:09 pm
Operator : VOA111:JC
Sample : I8260STDL1
Misc : WG1180957,ICAL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 19 11:05:46 2018
Quant Method : I:\VOLATILES\VOA111\2018\181115N\V111_181115N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 19 11:00:06 2018
Response via : Initial Calibration

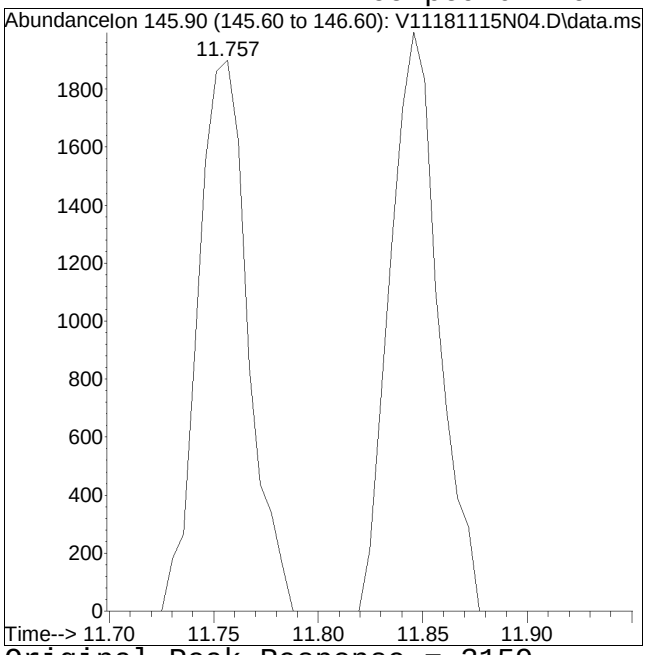
Sub List : 8260-Curve - Megamix plus Diox81115N\V11181115N07.D•

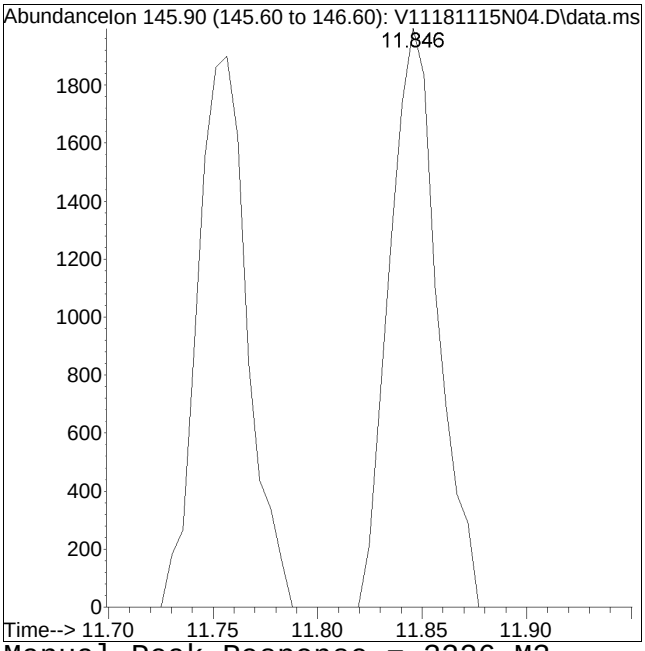


Manual Integration Report

Data Path : I:\VOLATILES\VOA111\2018\1QMethod : V111_181115N_8260.m
Data File : V11181115N04.D Operator : VOA111:JC
Date Inj'd : 11/15/2018 10:09 pm Instrument : VOA111
Sample : I8260STDL1 Quant Date : 11/19/2018 11:00 am

Compound #101: 1,4-Dichlorobenzene





Original Peak Response = 3159 Manual Peak Response = 3226 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2018\181115N\
Data File : V11181115N05.D
Acq On : 15 Nov 2018 10:35 pm
Operator : VOA111:JC
Sample : I8260STDL1.5
Misc : WG1180957,ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 19 11:06:56 2018
Quant Method : I:\VOLATILES\VOA111\2018\181115N\V111_181115N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 19 11:00:06 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2018\181115N\V11181115N07.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.549	96	91411	20.000	ug/L	0.00
Standard Area 1 = 89175			Recovery = 102.51%			
59) Chlorobenzene-d5	9.020	117	78202	20.000	ug/L	0.00
Standard Area 1 = 77380			Recovery = 101.06%			
79) 1,4-Dichlorobenzene-d4	11.830	152	41178	20.000	ug/L	0.00
Standard Area 1 = 42944			Recovery = 95.89%			
System Monitoring Compounds						
36) Dibromofluoromethane	4.773	113	24658	22.050	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 110.25%			
43) 1,2-Dichloroethane-d4	5.276	65	30369	23.583	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 117.91%			
60) Toluene-d8	7.205	98	92916	18.614	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 93.07%			
83) 4-Bromofluorobenzene	10.566	95	38565	19.982	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 99.91%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.522	85	1601	1.406	ug/L #	80
3) Chloromethane	1.700	50	2408	1.326	ug/L #	91
4) Vinyl chloride	1.742	62	1514	1.371	ug/L	85
5) Bromomethane	2.015	94	1868	2.850	ug/L	96
6) Chloroethane	2.120	64	1069	1.968	ug/L	79
7) Trichlorofluoromethane	2.235	101	3204	2.044	ug/L	99
8) Ethyl ether	2.502	74	1045	1.816	ug/L	93
10) 1,1-Dichloroethene	2.675	96	1495	1.683	ug/L	81
11) Carbon disulfide	2.702	76	6314	2.120	ug/L	94
12) Freon-113	2.712	101	1662	1.925	ug/L	98
13) Iodomethane	0.000		0	N.D.		
14) Acrolein	2.969	56	59	0.369	ug/L #	78
15) Methylene chloride	3.173	84	2289	1.933	ug/L	96
17) Acetone	3.226	43	630	1.800	ug/L #	49
18) trans-1,2-Dichloroethene	3.320	96	2124	2.064	ug/L	100
19) Methyl acetate	3.331	43	1661	1.762	ug/L #	70
20) Methyl tert-butyl ether	3.415	73	6624	2.289	ug/L	94
21) tert-Butyl alcohol	3.493	59	1357	10.736	ug/L #	76
22) Diisopropyl ether	3.750	45	10637	2.109	ug/L	99
23) 1,1-Dichloroethane	3.860	63	4537	2.009	ug/L	99
24) Halothane	3.913	117	1725	2.278	ug/L	94

Data Path : I:\VOLATILES\VOA111\2018\181115N\
Data File : V11181115N05.D
Acq On : 15 Nov 2018 10:35 pm
Operator : VOA111:JC
Sample : I8260STDL1.5
Misc : WG1180957,ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 19 11:06:56 2018
Quant Method : I:\VOLATILES\VOA111\2018\181115N\V111_181115N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 19 11:00:06 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2018\181115N\V11181115N07.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	3.908	53	537	1.317	ug/L	#	76
26) Ethyl tert-butyl ether	4.075	59	9304	2.325	ug/L		87
27) Vinyl acetate	4.096	43	5425	1.916	ug/L	#	93
28) cis-1,2-Dichloroethene	4.348	96	2435	2.118	ug/L		96
29) 2,2-Dichloropropane	4.442	77	4034	2.389	ug/L		92
30) Bromochloromethane	4.531	128	1208	2.227	ug/L		89
31) Cyclohexane	4.537	56	4184	2.015	ug/L		96
32) Chloroform	4.600	83	4623	2.340	ug/L		97
33) Ethyl acetate	4.725	43	2285	1.804	ug/L	#	77
34) Carbon tetrachloride	4.731	117	3096	2.125	ug/L		95
35) Tetrahydrofuran	4.746	42	662	1.542	ug/L	#	55
37) 1,1,1-Trichloroethane	4.788	97	4258	2.526	ug/L		96
39) 2-Butanone	4.904	43	941	1.719	ug/L	#	61
40) 1,1-Dichloropropene	4.909	75	2737	2.131	ug/L		91
41) Benzene	5.145	78	8482	2.023	ug/L		99
42) tert-Amyl methyl ether	5.260	73	6788	2.343	ug/L		98
44) 1,2-Dichloroethane	5.339	62	4290	2.548	ug/L		94
47) Methyl cyclohexane	5.711	83	2988	1.829	ug/L		91
48) Trichloroethene	5.722	95	2526	2.393	ug/L		91
50) Dibromomethane	6.146	93	1277	2.071	ug/L		92
51) 1,2-Dichloropropane	6.251	63	2449	1.908	ug/L		94
53) 2-Chloroethyl vinyl ether	6.964	63	739	1.718	ug/L	#	74
54) Bromodichloromethane	6.325	83	3487	2.351	ug/L	#	25
57) 1,4-Dioxane	6.545	88	555	58.606	ug/L	#	74
58) cis-1,3-Dichloropropene	7.011	75	3825	2.234	ug/L		97
61) Toluene	7.263	92	6121	2.045	ug/L		96
62) 4-Methyl-2-pentanone	7.719	58	471	1.032	ug/L	#	47
63) Tetrachloroethene	7.704	166	2549	2.062	ug/L		94
65) trans-1,3-Dichloropropene	7.751	75	3447	1.905	ug/L		92
67) Ethyl methacrylate	7.955	69	1736	1.465	ug/L	#	71
68) 1,1,2-Trichloroethane	7.929	83	1471	1.728	ug/L		90
69) Chlorodibromomethane	8.128	129	2613	2.027	ug/L		98
70) 1,3-Dichloropropane	8.233	76	3309	1.874	ug/L		95
71) 1,2-Dibromoethane	8.396	107	1956	1.975	ug/L		99
72) 2-Hexanone	8.731	43	868M1	1.023	ug/L		
73) Chlorobenzene	9.041	112	7180	2.083	ug/L		93
74) Ethylbenzene	9.088	91	11243	1.989	ug/L		99
75) 1,1,1,2-Tetrachloroethane	9.130	131	2796	2.183	ug/L		100
76) p/m Xylene	9.276	106	9173	4.255	ug/L		100
77) o Xylene	9.822	106	9055	4.419	ug/L		98

Data Path : I:\VOLATILES\VOA111\2018\181115N\
Data File : V11181115N05.D
Acq On : 15 Nov 2018 10:35 pm
Operator : VOA111:JC
Sample : I8260STDL1.5
Misc : WG1180957,ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 19 11:06:56 2018
Quant Method : I:\VOLATILES\VOA111\2018\181115N\V111_181115N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 19 11:00:06 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2018\181115N\V11181115N07.D
Sub List : 8260-Curve - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
78)	Styrene	9.890	104	14685	4.375	ug/L		98
80)	Bromoform	9.906	173	1442	1.811	ug/L		89
82)	Isopropylbenzene	10.231	105	11449	2.004	ug/L		98
84)	Bromobenzene	10.682	156	3131	2.099	ug/L		99
85)	n-Propylbenzene	10.745	91	13342	1.940	ug/L		97
86)	1,4-Dichlorobutane	10.750	55	4471	1.799	ug/L		100
87)	1,1,2,2-Tetrachloroethane	10.834	83	2450	1.797	ug/L		94
88)	4-Ethyltoluene	10.881	105	11600	2.060	ug/L		99
89)	2-Chlorotoluene	10.907	91	10026	2.046	ug/L		95
90)	1,3,5-Trimethylbenzene	10.980	105	10367	2.081	ug/L		99
91)	1,2,3-Trichloropropane	10.970	75	2136	1.957	ug/L		94
92)	trans-1,4-Dichloro-2-b...	11.043	53	670	1.547	ug/L	#	84
93)	4-Chlorotoluene	11.101	91	8850	2.019	ug/L		98
94)	tert-Butylbenzene	11.332	119	8752	2.100	ug/L		98
97)	1,2,4-Trimethylbenzene	11.421	105	10144	2.044	ug/L		99
98)	sec-Butylbenzene	11.531	105	12277	1.955	ug/L		98
99)	p-Isopropyltoluene	11.699	119	10876	2.032	ug/L		97
100)	1,3-Dichlorobenzene	11.751	146	5811	1.985	ug/L		99
101)	1,4-Dichlorobenzene	11.846	146	6026M3	1.960	ug/L		
102)	p-Diethylbenzene	12.087	119	6830	2.151	ug/L		97
103)	n-Butylbenzene	12.144	91	9988	1.967	ug/L		97
104)	1,2-Dichlorobenzene	12.281	146	5420	1.959	ug/L		99
105)	1,2,4,5-Tetramethylben...	12.899	119	11252	2.161	ug/L		99
106)	1,2-Dibromo-3-chloropr...	13.083	155	187	0.940	ug/L	#	59
107)	1,3,5-Trichlorobenzene	13.114	180	4340	2.116	ug/L		96
108)	Hexachlorobutadiene	13.707	225	1811	1.905	ug/L		95
109)	1,2,4-Trichlorobenzene	13.728	180	3581	1.908	ug/L		98
110)	Naphthalene	14.016	128	8731	2.047	ug/L		100
111)	1,2,3-Trichlorobenzene	14.184	180	3520	2.010	ug/L		97

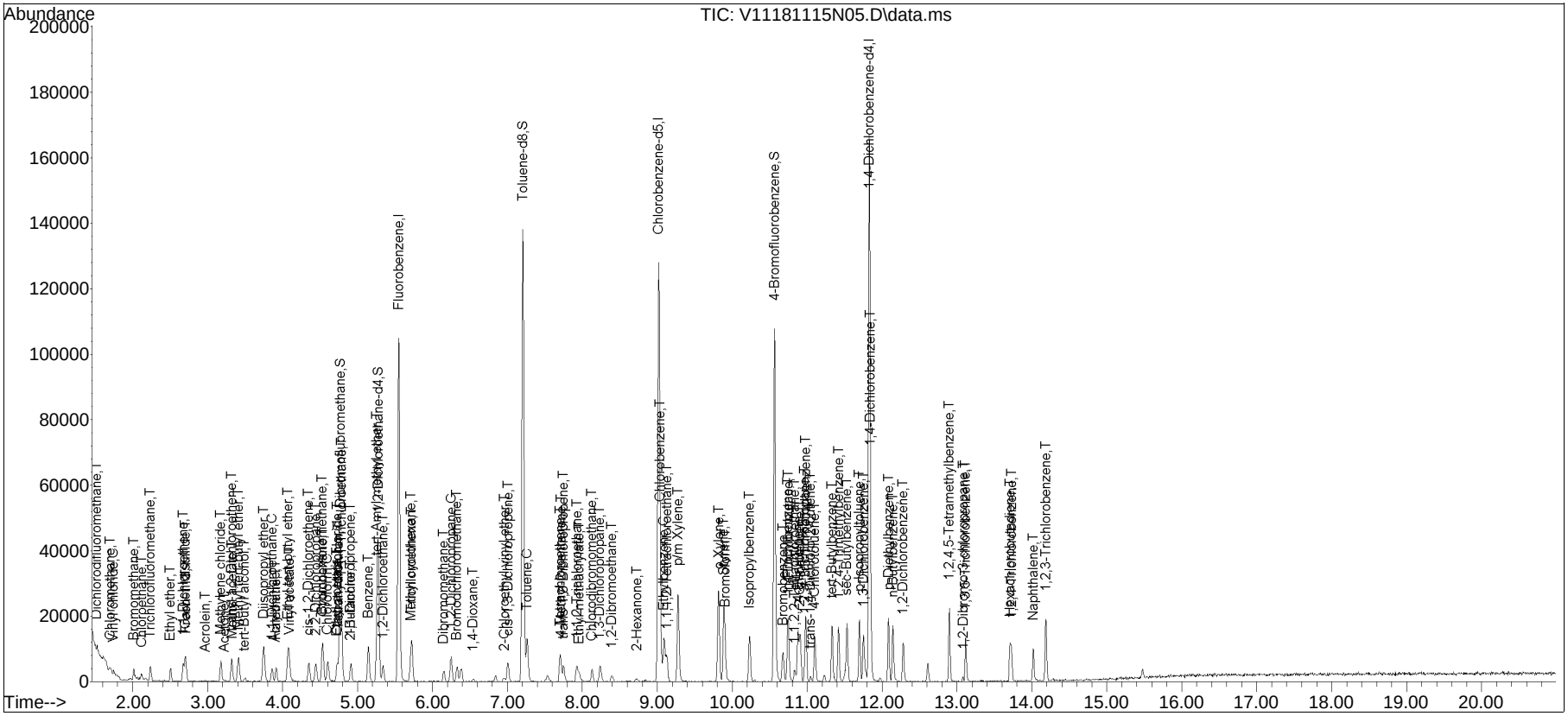
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2018\181115N\
Data File : V11181115N05.D
Acq On : 15 Nov 2018 10:35 pm
Operator : VOA111:JC
Sample : I8260STDL1.5
Misc : WG1180957,ICAL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 19 11:06:56 2018
Quant Method : I:\VOLATILES\VOA111\2018\181115N\V111_181115N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 19 11:00:06 2018
Response via : Initial Calibration

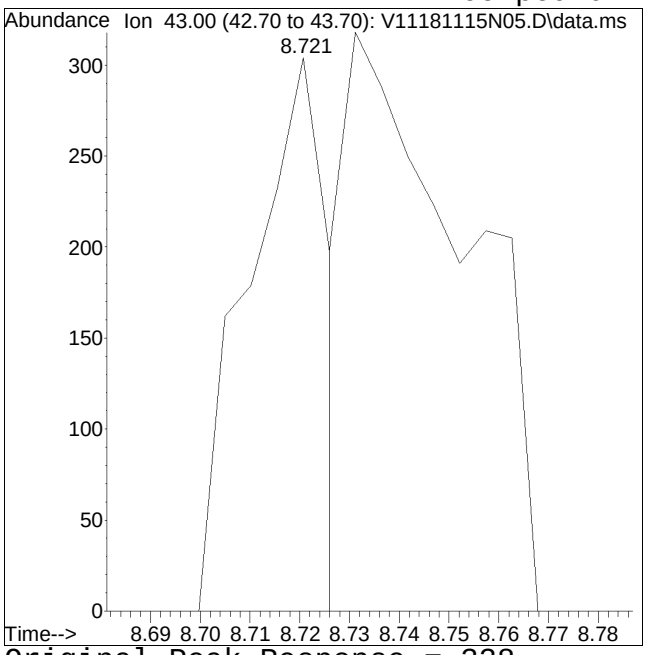
Sub List : 8260-Curve - Megamix plus Diox81115N\V11181115N07.D•



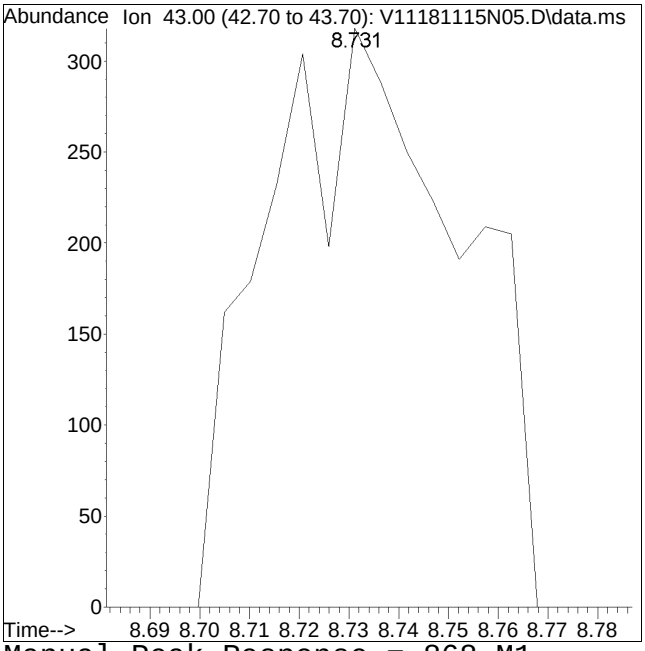
Manual Integration Report

Data Path : I:\VOLATILES\VOA111\2018\1QMethod : V111_181115N_8260.m
Data File : V11181115N05.D Operator : VOA111:JC
Date Inj'd : 11/15/2018 10:35 pm Instrument : VOA111
Sample : I8260STDL1.5 Quant Date : 11/19/2018 11:00 am

Compound #72: 2-Hexanone



Original Peak Response = 338



Manual Peak Response = 868 M1

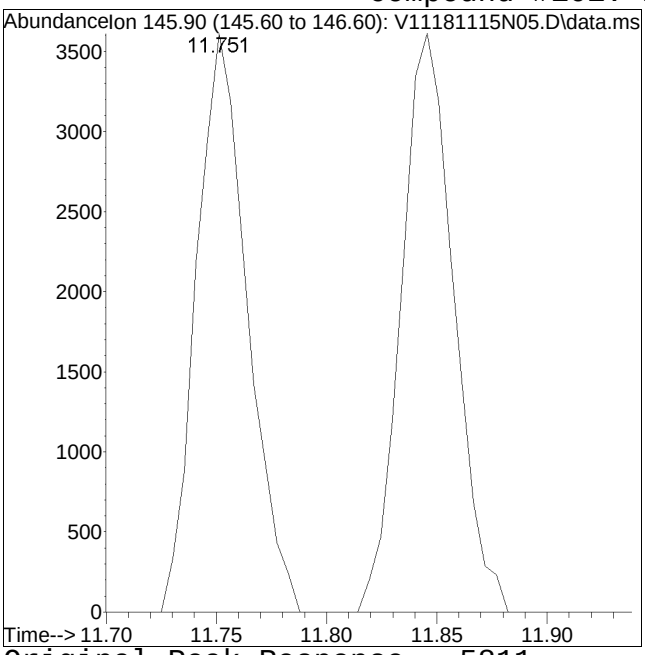
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

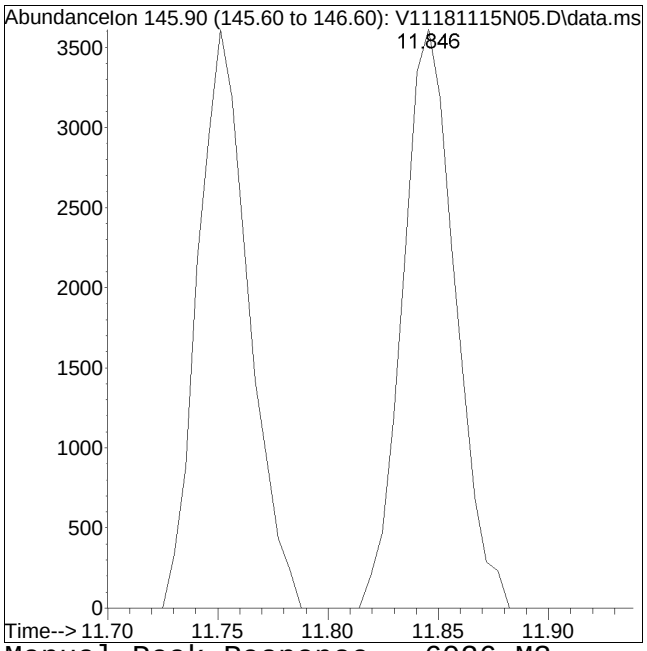
Manual Integration Report

Data Path : I:\VOLATILES\VOA111\2018\1Q
Data File : V11181115N05.D
Date Inj'd : 11/15/2018 10:35 pm
Sample : I8260STDL1.5

Method : V111_181115N_8260.m
Operator : VOA111:JC
Instrument : VOA111
Quant Date : 11/19/2018 11:00 am

Compound #101: 1,4-Dichlorobenzene





Original Peak Response = 5811 Manual Peak Response = 6026 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2018\181115N\
Data File : V11181115N06.D
Acq On : 15 Nov 2018 11:01 pm
Operator : VOA111:JC
Sample : I8260STDL2
Misc : WG1180957,ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 19 11:07:21 2018
Quant Method : I:\VOLATILES\VOA111\2018\181115N\V111_181115N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 19 11:00:06 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2018\181115N\V11181115N07.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	5.549	96	92537	20.000 ug/L	0.00
Standard Area 1 = 89175			Recovery = 103.77%		
59) Chlorobenzene-d5	9.019	117	77757	20.000 ug/L	0.00
Standard Area 1 = 77380			Recovery = 100.49%		
79) 1,4-Dichlorobenzene-d4	11.830	152	41560	20.000 ug/L	0.00
Standard Area 1 = 42944			Recovery = 96.78%		
System Monitoring Compounds					
36) Dibromofluoromethane	4.773	113	24530	21.668 ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 108.34%		
43) 1,2-Dichloroethane-d4	5.271	65	30360	23.289 ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 116.44%		
60) Toluene-d8	7.205	98	93224	18.783 ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 93.92%		
83) 4-Bromofluorobenzene	10.566	95	38769	19.903 ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 99.52%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.527	85	3797M1	3.294 ug/L	
3) Chloromethane	1.700	50	5087	2.768 ug/L	97
4) Vinyl chloride	1.742	62	3817	3.414 ug/L	92
5) Bromomethane	2.015	94	3901	5.880 ug/L	95
6) Chloroethane	2.120	64	2467	4.487 ug/L	94
7) Trichlorofluoromethane	2.235	101	8243	5.194 ug/L	94
8) Ethyl ether	2.508	74	2151	3.693 ug/L	90
10) 1,1-Dichloroethene	2.675	96	3548	3.947 ug/L	92
11) Carbon disulfide	2.702	76	11653	3.865 ug/L	98
12) Freon-113	2.712	101	4005	4.582 ug/L	98
13) Iodomethane	2.801	142	397	0.552 ug/L #	39
14) Acrolein	2.969	56	388	2.395 ug/L #	70
15) Methylene chloride	3.173	84	4761	3.972 ug/L	98
17) Acetone	3.221	43	1304	3.681 ug/L #	75
18) trans-1,2-Dichloroethene	3.320	96	4686	4.499 ug/L	95
19) Methyl acetate	3.331	43	3494	3.662 ug/L	96
20) Methyl tert-butyl ether	3.409	73	14029	4.788 ug/L	94
21) tert-Butyl alcohol	3.498	59	2961	23.140 ug/L	87
22) Diisopropyl ether	3.745	45	22259	4.360 ug/L	99
23) 1,1-Dichloroethane	3.860	63	9715	4.250 ug/L	96
24) Halothane	3.913	117	3620	4.723 ug/L	99

Data Path : I:\VOLATILES\VOA111\2018\181115N\
Data File : V11181115N06.D
Acq On : 15 Nov 2018 11:01 pm
Operator : VOA111:JC
Sample : I8260STDL2
Misc : WG1180957,ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 19 11:07:21 2018
Quant Method : I:\VOLATILES\VOA111\2018\181115N\V111_181115N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 19 11:00:06 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2018\181115N\V11181115N07.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	3.913	53	1296	3.139	ug/L		94
26) Ethyl tert-butyl ether	4.075	59	19467	4.806	ug/L		90
27) Vinyl acetate	4.091	43	11674	4.073	ug/L		97
28) cis-1,2-Dichloroethene	4.348	96	5103	4.384	ug/L		97
29) 2,2-Dichloropropane	4.442	77	8852	5.179	ug/L		90
30) Bromochloromethane	4.531	128	2475	4.508	ug/L		94
31) Cyclohexane	4.537	56	9353	4.449	ug/L		100
32) Chloroform	4.605	83	9863	4.931	ug/L		97
33) Ethyl acetate	4.725	43	5226	4.076	ug/L	#	94
34) Carbon tetrachloride	4.731	117	7563	5.127	ug/L		96
35) Tetrahydrofuran	4.757	42	1525	3.508	ug/L	#	81
37) 1,1,1-Trichloroethane	4.788	97	8950	5.244	ug/L		97
39) 2-Butanone	4.898	43	2058	3.713	ug/L		90
40) 1,1-Dichloropropene	4.914	75	6127	4.713	ug/L		96
41) Benzene	5.145	78	18229	4.294	ug/L		99
42) tert-Amyl methyl ether	5.265	73	14568	4.966	ug/L		97
44) 1,2-Dichloroethane	5.344	62	9006	5.283	ug/L		98
47) Methyl cyclohexane	5.716	83	7350	4.443	ug/L		99
48) Trichloroethene	5.727	95	4982	4.661	ug/L		95
50) Dibromomethane	6.151	93	2819	4.516	ug/L		95
51) 1,2-Dichloropropane	6.246	63	5292	4.072	ug/L	#	91
53) 2-Chloroethyl vinyl ether	6.948	63	1828	4.198	ug/L		96
54) Bromodichloromethane	6.325	83	7852	5.230	ug/L		98
57) 1,4-Dioxane	6.539	88	1634	170.444	ug/L		96
58) cis-1,3-Dichloropropene	7.006	75	7890	4.552	ug/L		99
61) Toluene	7.263	92	12498	4.200	ug/L		98
62) 4-Methyl-2-pentanone	7.703	58	1573	3.467	ug/L		95
63) Tetrachloroethene	7.703	166	5443	4.428	ug/L		92
65) trans-1,3-Dichloropropene	7.745	75	7690	4.274	ug/L		97
67) Ethyl methacrylate	7.950	69	4859	4.123	ug/L		91
68) 1,1,2-Trichloroethane	7.929	83	3311	3.911	ug/L		95
69) Chlorodibromomethane	8.128	129	5677	4.430	ug/L		96
70) 1,3-Dichloropropane	8.233	76	7126	4.060	ug/L		98
71) 1,2-Dibromoethane	8.390	107	4218	4.283	ug/L		97
72) 2-Hexanone	8.721	43	2226	2.639	ug/L	#	45
73) Chlorobenzene	9.040	112	14713	4.294	ug/L		94
74) Ethylbenzene	9.088	91	24532	4.364	ug/L		99
75) 1,1,1,2-Tetrachloroethane	9.124	131	5867	4.607	ug/L		96
76) p/m Xylene	9.276	106	19120	8.920	ug/L		100
77) o Xylene	9.816	106	18742	9.199	ug/L		98

Data Path : I:\VOLATILES\VOA111\2018\181115N\
Data File : V11181115N06.D
Acq On : 15 Nov 2018 11:01 pm
Operator : VOA111:JC
Sample : I8260STDL2
Misc : WG1180957,ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 19 11:07:21 2018
Quant Method : I:\VOLATILES\VOA111\2018\181115N\V111_181115N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 19 11:00:06 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2018\181115N\V11181115N07.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78) Styrene	9.890	104	31396	9.406	ug/L	95
80) Bromoform	9.906	173	3266	4.063	ug/L	96
82) Isopropylbenzene	10.231	105	25021	4.340	ug/L	98
84) Bromobenzene	10.676	156	6357	4.223	ug/L	100
85) n-Propylbenzene	10.744	91	28315	4.079	ug/L	99
86) 1,4-Dichlorobutane	10.750	55	9658	3.851	ug/L	92
87) 1,1,2,2-Tetrachloroethane	10.834	83	5117	3.718	ug/L	98
88) 4-Ethyltoluene	10.876	105	25432	4.474	ug/L	99
89) 2-Chlorotoluene	10.907	91	20981	4.242	ug/L	100
90) 1,3,5-Trimethylbenzene	10.980	105	21691	4.315	ug/L	99
91) 1,2,3-Trichloropropane	10.970	75	4288	3.892	ug/L	98
92) trans-1,4-Dichloro-2-b...	11.033	53	1584	3.624	ug/L	90
93) 4-Chlorotoluene	11.101	91	18543	4.192	ug/L	99
94) tert-Butylbenzene	11.332	119	18543	4.409	ug/L	97
97) 1,2,4-Trimethylbenzene	11.416	105	21617	4.315	ug/L	98
98) sec-Butylbenzene	11.531	105	27026	4.263	ug/L	96
99) p-Isopropyltoluene	11.699	119	23441	4.339	ug/L	98
100) 1,3-Dichlorobenzene	11.751	146	12589	4.261	ug/L	98
101) 1,4-Dichlorobenzene	11.845	146	13137	4.235	ug/L	95
102) p-Diethylbenzene	12.087	119	14286	4.458	ug/L	99
103) n-Butylbenzene	12.144	91	21545	4.203	ug/L	98
104) 1,2-Dichlorobenzene	12.281	146	11860	4.247	ug/L	97
105) 1,2,4,5-Tetramethylben...	12.899	119	23716	4.513	ug/L	99
106) 1,2-Dibromo-3-chloropr...	13.083	155	666	3.318	ug/L	91
107) 1,3,5-Trichlorobenzene	13.114	180	9308	4.497	ug/L	97
108) Hexachlorobutadiene	13.707	225	4199	4.377	ug/L	96
109) 1,2,4-Trichlorobenzene	13.723	180	7842	4.141	ug/L	95
110) Naphthalene	14.016	128	17831	4.143	ug/L	100
111) 1,2,3-Trichlorobenzene	14.184	180	7544	4.268	ug/L	99

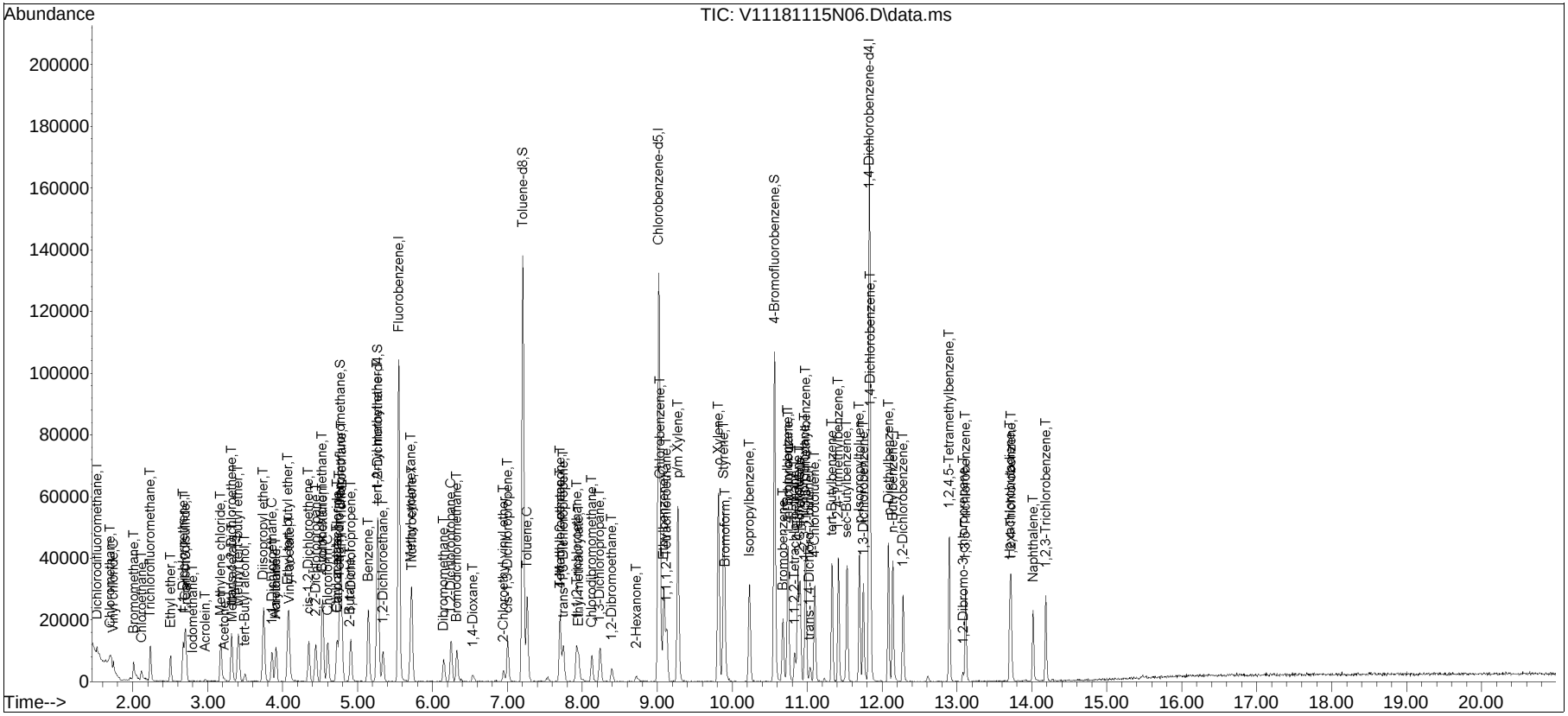
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2018\181115N\
Data File : V11181115N06.D
Acq On : 15 Nov 2018 11:01 pm
Operator : VOA111:JC
Sample : I8260STDL2
Misc : WG1180957,ICAL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 19 11:07:21 2018
Quant Method : I:\VOLATILES\VOA111\2018\181115N\V111_181115N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 19 11:00:06 2018
Response via : Initial Calibration

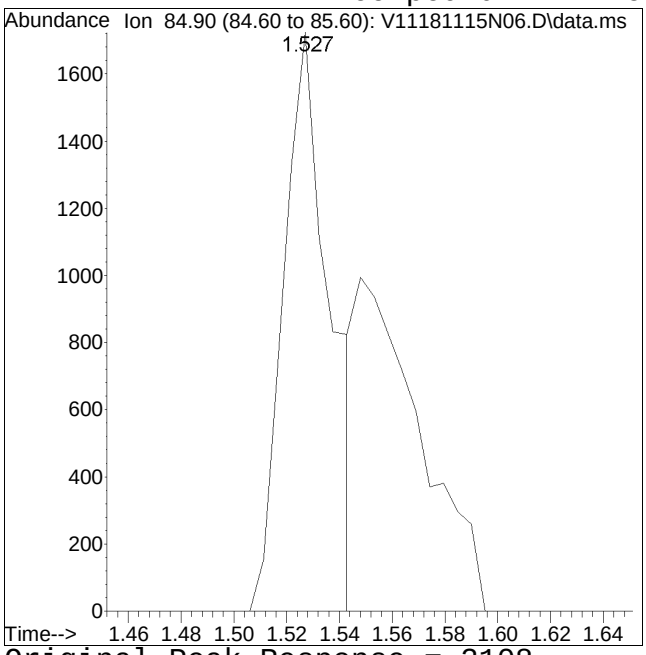
Sub List : 8260-Curve - Megamix plus Diox81115N\V11181115N07.D•

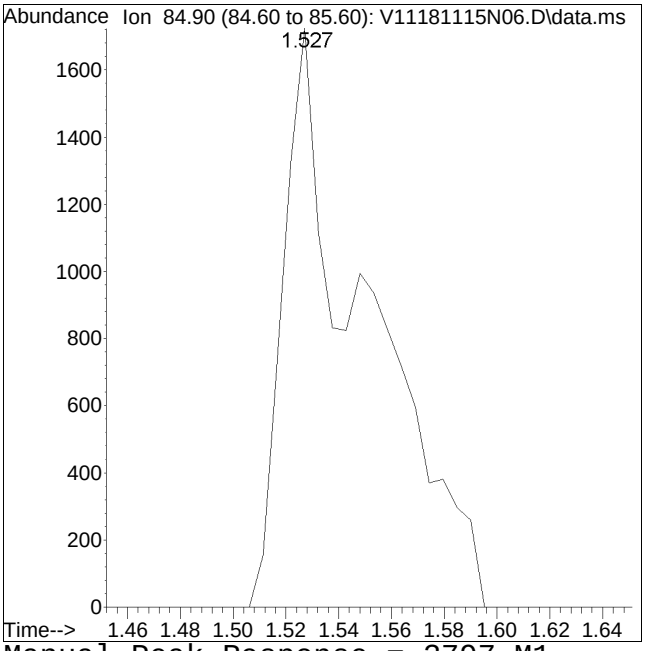


Manual Integration Report

Data Path : I:\VOLATILES\VOA111\2018\1QMethod : V111_181115N_8260.m
Data File : V11181115N06.D Operator : VOA111:JC
Date Inj'd : 11/15/2018 11:01 pm Instrument : VOA111
Sample : I8260STDL2 Quant Date : 11/19/2018 11:00 am

Compound #2: Dichlorodifluoromethane





Original Peak Response = 2108 Manual Peak Response = 3797 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2018\181115N\
Data File : V11181115N07.D
Acq On : 15 Nov 2018 11:27 pm
Operator : VOA111:JC
Sample : I8260STDL3
Misc : WG1180957,ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 19 10:58:57 2018
Quant Method : I:\VOLATILES\VOA111\2018\181115N\V111_181115N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Oct 01 10:26:11 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2018\181115N\V11181115N07.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.549	96	89175	20.000	ug/L	0.00
Standard Area 1 = 89175			Recovery = 100.00%			
59) Chlorobenzene-d5	9.020	117	77380	20.000	ug/L	0.00
Standard Area 1 = 77380			Recovery = 100.00%			
79) 1,4-Dichlorobenzene-d4	11.830	152	42944	20.000	ug/L	0.00
Standard Area 1 = 42944			Recovery = 100.00%			
System Monitoring Compounds						
36) Dibromofluoromethane	4.767	113	24262	22.548	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 112.74%			
43) 1,2-Dichloroethane-d4	5.276	65	29904	24.414	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 122.07%			
60) Toluene-d8	7.205	98	92513	18.571	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 92.86%			
83) 4-Bromofluorobenzene	10.561	95	39520	19.670	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 98.35%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.527	85	17075M1	14.668	ug/L	
3) Chloromethane	1.705	50	22406	11.956	ug/L	100
4) Vinyl chloride	1.742	62	16554	14.746	ug/L	98
5) Bromomethane	2.015	94	15934	25.832	ug/L	100
6) Chloroethane	2.120	64	11103	20.815	ug/L	97
7) Trichlorofluoromethane	2.235	101	35048	23.064	ug/L	99
8) Ethyl ether	2.508	74	10942	19.324	ug/L	93
10) 1,1-Dichloroethene	2.675	96	16732	19.034	ug/L	93
11) Carbon disulfide	2.702	76	48258	16.185	ug/L	100
12) Freon-113	2.707	101	17853	20.996	ug/L	95
13) Iodomethane	2.801	142	7102	9.183	ug/L	91
14) Acrolein	2.959	56	2621	16.322	ug/L	97
15) Methylene chloride	3.179	84	20819	17.852	ug/L	94
17) Acetone	3.215	43	6402	18.667	ug/L	95
18) trans-1,2-Dichloroethene	3.320	96	20301	20.121	ug/L	99
19) Methyl acetate	3.326	43	17861	19.268	ug/L	98
20) Methyl tert-butyl ether	3.409	73	65718	23.775	ug/L	93
21) tert-Butyl alcohol	3.499	59	14341	119.352	ug/L	95
22) Diisopropyl ether	3.745	45	101120	20.498	ug/L	98
23) 1,1-Dichloroethane	3.860	63	43988	19.819	ug/L	98
24) Halothane	3.913	117	16296	22.086	ug/L	100

Data Path : I:\VOLATILES\VOA111\2018\181115N\
Data File : V11181115N07.D
Acq On : 15 Nov 2018 11:27 pm
Operator : VOA111:JC
Sample : I8260STDL3
Misc : WG1180957,ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 19 10:58:57 2018
Quant Method : I:\VOLATILES\VOA111\2018\181115N\V111_181115N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Oct 01 10:26:11 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2018\181115N\V11181115N07.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	3.902	53	7957	19.823	ug/L		97
26) Ethyl tert-butyl ether	4.075	59	90314	23.561	ug/L		91
27) Vinyl acetate	4.086	43	57072	20.556	ug/L		99
28) cis-1,2-Dichloroethene	4.348	96	24276	21.783	ug/L		97
29) 2,2-Dichloropropane	4.442	77	38580	23.823	ug/L		92
30) Bromochloromethane	4.532	128	12301	23.604	ug/L		87
31) Cyclohexane	4.537	56	41668	20.342	ug/L		95
32) Chloroform	4.605	83	44918	23.722	ug/L		97
33) Ethyl acetate	4.715	43	25590	20.693	ug/L		97
34) Carbon tetrachloride	4.726	117	37161	24.805	ug/L		98
35) Tetrahydrofuran	4.746	42	9013	21.482	ug/L		100
37) 1,1,1-Trichloroethane	4.788	97	41934	26.112	ug/L		97
39) 2-Butanone	4.888	43	11307M1	21.365	ug/L		
40) 1,1-Dichloropropene	4.909	75	27791	22.246	ug/L		99
41) Benzene	5.145	78	83990	20.491	ug/L		99
42) tert-Amyl methyl ether	5.255	73	67552	24.485	ug/L		96
44) 1,2-Dichloroethane	5.339	62	41135	25.917	ug/L		98
47) Methyl cyclohexane	5.716	83	34231	21.526	ug/L		100
48) Trichloroethene	5.727	95	23612	23.117	ug/L		100
50) Dibromomethane	6.152	93	14087	23.826	ug/L		99
51) 1,2-Dichloropropane	6.246	63	25659	20.439	ug/L	#	94
53) 2-Chloroethyl vinyl ether	6.943	63	10919M1	25.409	ug/L		
54) Bromodichloromethane	6.325	83	37217	26.446	ug/L		99
57) 1,4-Dioxane	6.529	88	11149	1151.196	ug/L		90
58) cis-1,3-Dichloropropene	7.001	75	39624	24.029	ug/L		99
61) Toluene	7.263	92	56952	18.954	ug/L		100
62) 4-Methyl-2-pentanone	7.698	58	9029	17.930	ug/L		90
63) Tetrachloroethene	7.704	166	25323	20.531	ug/L		96
65) trans-1,3-Dichloropropene	7.740	75	38222	21.365	ug/L		88
67) Ethyl methacrylate	7.945	69	26299	18.219	ug/L		99
68) 1,1,2-Trichloroethane	7.924	83	16056	18.753	ug/L		95
69) Chlorodibromomethane	8.123	129	28221	22.282	ug/L		99
70) 1,3-Dichloropropane	8.238	76	33556	18.973	ug/L		99
71) 1,2-Dibromoethane	8.390	107	20895	21.337	ug/L		95
72) 2-Hexanone	8.700	43	16877M1	17.564	ug/L		
73) Chlorobenzene	9.041	112	68531	20.003	ug/L		99
74) Ethylbenzene	9.088	91	114318	20.298	ug/L		99
75) 1,1,1,2-Tetrachloroethane	9.130	131	27955	22.129	ug/L		97
76) p/m Xylene	9.277	106	90908	42.420	ug/L		99
77) o Xylene	9.811	106	90427	44.655	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2018\181115N\
Data File : V11181115N07.D
Acq On : 15 Nov 2018 11:27 pm
Operator : VOA111:JC
Sample : I8260STDL3
Misc : WG1180957,ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 19 10:58:57 2018
Quant Method : I:\VOLATILES\VOA111\2018\181115N\V111_181115N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Oct 01 10:26:11 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2018\181115N\V11181115N07.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78) Styrene	9.885	104	153255	41.839	ug/L	97
80) Bromoform	9.906	173	17129	20.571	ug/L	98
82) Isopropylbenzene	10.231	105	117957	19.615	ug/L	99
84) Bromobenzene	10.676	156	30835	19.703	ug/L	99
85) n-Propylbenzene	10.739	91	137560	18.901	ug/L	99
86) 1,4-Dichlorobutane	10.750	55	48655	18.533	ug/L	92
87) 1,1,2,2-Tetrachloroethane	10.834	83	25093	17.312	ug/L	98
88) 4-Ethyltoluene	10.876	105	121341	20.575	ug/L	99
89) 2-Chlorotoluene	10.902	91	99319	19.262	ug/L	100
90) 1,3,5-Trimethylbenzene	10.981	105	105277	20.142	ug/L	100
91) 1,2,3-Trichloropropane	10.965	75	21946	19.091	ug/L	96
92) trans-1,4-Dichloro-2-b...	11.033	53	9527	17.371	ug/L	85
93) 4-Chlorotoluene	11.096	91	91804	20.008	ug/L	99
94) tert-Butylbenzene	11.332	119	89810	20.574	ug/L	98
97) 1,2,4-Trimethylbenzene	11.416	105	105940	20.360	ug/L	99
98) sec-Butylbenzene	11.531	105	130981	19.793	ug/L	99
99) p-Isopropyltoluene	11.694	119	116934	20.875	ug/L	98
100) 1,3-Dichlorobenzene	11.746	146	60929	19.830	ug/L	99
101) 1,4-Dichlorobenzene	11.846	146	63642	19.782	ug/L	99
102) p-Diethylbenzene	12.082	119	70843	21.407	ug/L	99
103) n-Butylbenzene	12.139	91	105441	19.639	ug/L	99
104) 1,2-Dichlorobenzene	12.276	146	58507	20.245	ug/L	100
105) 1,2,4,5-Tetramethylben...	12.894	119	119498	22.298	ug/L	98
106) 1,2-Dibromo-3-chloropr...	13.073	155	4362	18.878	ug/L	97
107) 1,3,5-Trichlorobenzene	13.114	180	45242	21.154	ug/L	99
108) Hexachlorobutadiene	13.707	225	20210	20.331	ug/L	99
109) 1,2,4-Trichlorobenzene	13.717	180	39948	20.374	ug/L	99
110) Naphthalene	14.011	128	91841	20.724	ug/L	100
111) 1,2,3-Trichlorobenzene	14.184	180	36769	20.090	ug/L	98

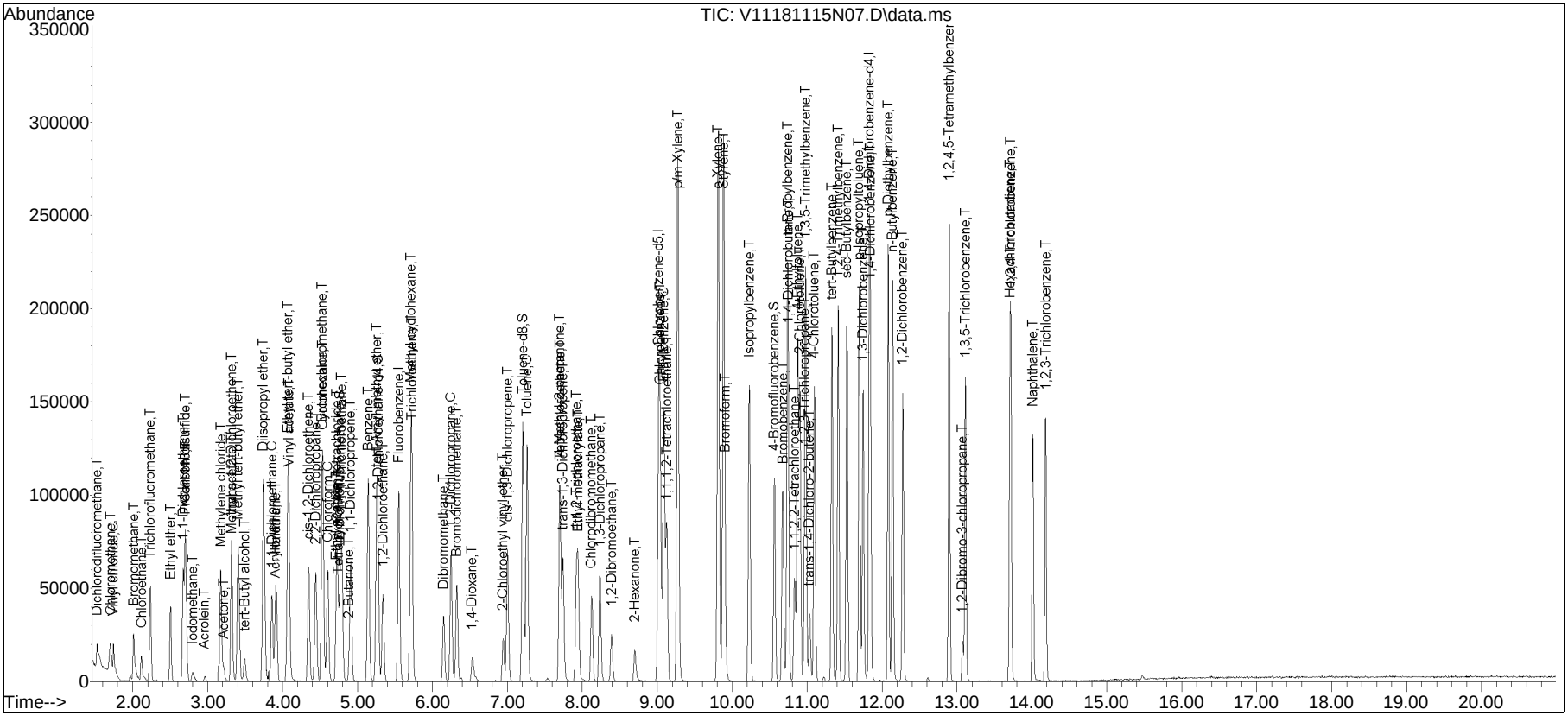
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2018\181115N\
Data File : V11181115N07.D
Acq On : 15 Nov 2018 11:27 pm
Operator : VOA111:JC
Sample : I8260STDL3
Misc : WG1180957,ICAL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 19 10:58:57 2018
Quant Method : I:\VOLATILES\VOA111\2018\181115N\V111_181115N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Oct 01 10:26:11 2018
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox81115N\V11181115N07.D•

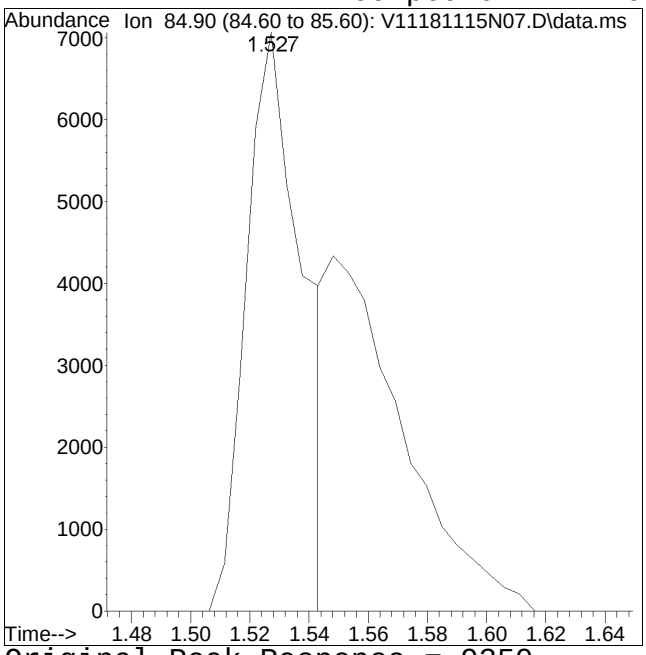


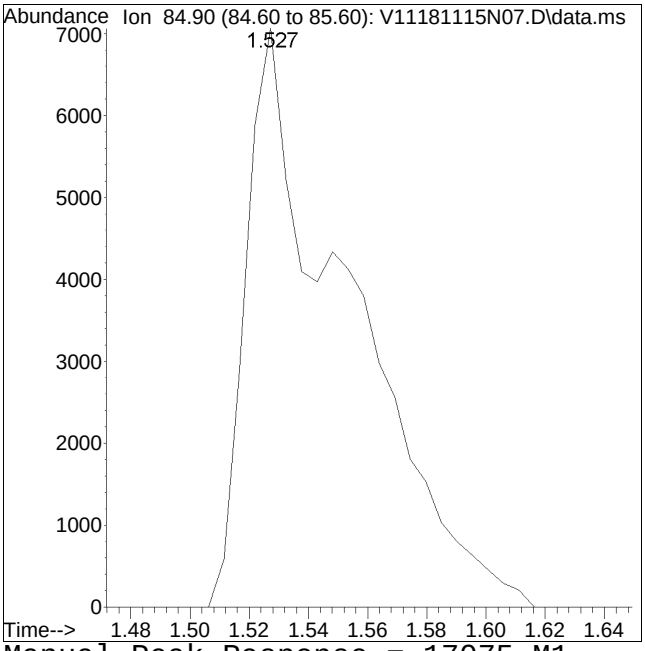
Manual Integration Report

Data Path : I:\VOLATILES\VOA111\2018\1Q
Data File : V11181115N07.D
Date Inj'd : 11/15/2018 11:27 pm
Sample : I8260STDL3

Method : V111_181115N_8260.m
Operator : VOA111:JC
Instrument : VOA111
Quant Date : 11/19/2018 10:56 am

Compound #2: Dichlorodifluoromethane





Original Peak Response = 9350 Manual Peak Response = 17075 M1

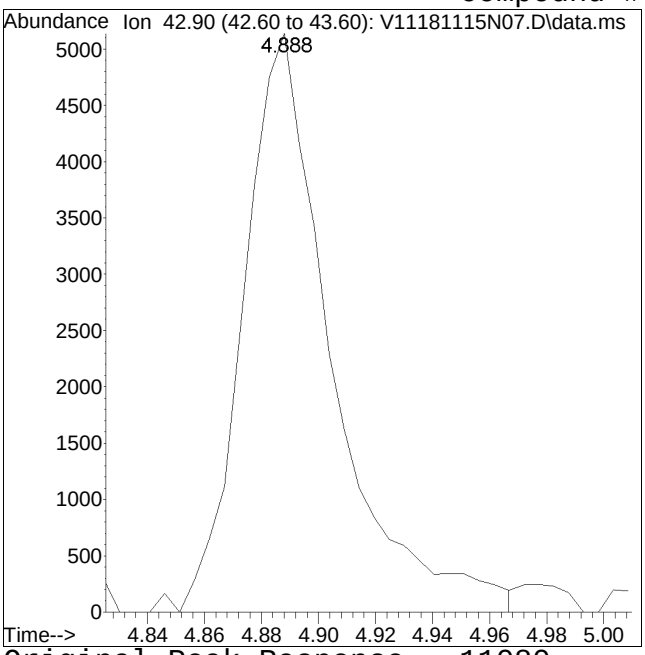
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

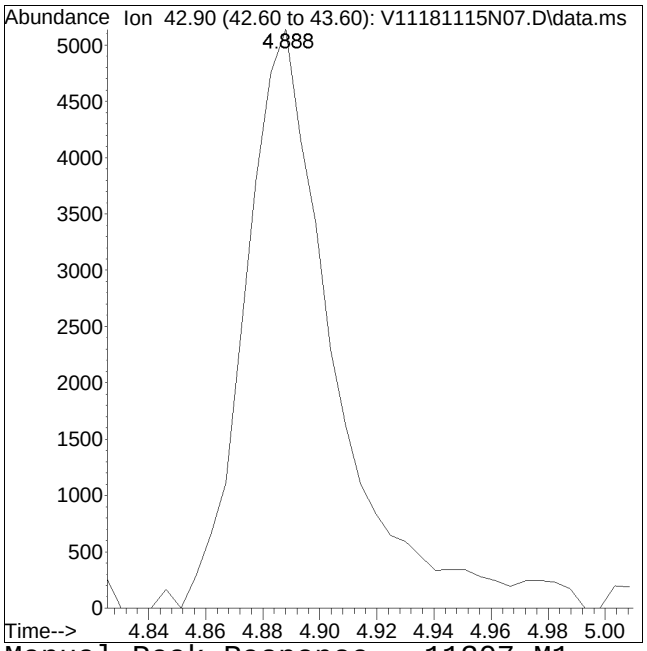
Data Path : I:\VOLATILES\VOA111\2018\1Q
Data File : V11181115N07.D
Date Inj'd : 11/15/2018 11:27 pm
Sample : I8260STDL3

Method : V111_181115N_8260.m
Operator : VOA111:JC
Instrument : VOA111
Quant Date : 11/19/2018 10:56 am

Compound #39: 2-Butanone



Original Peak Response = 11080



Manual Peak Response = 11307 M1

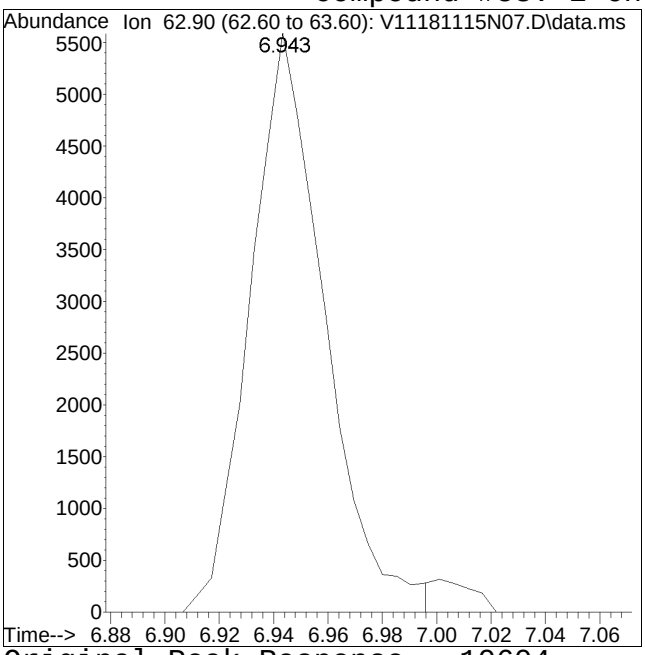
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

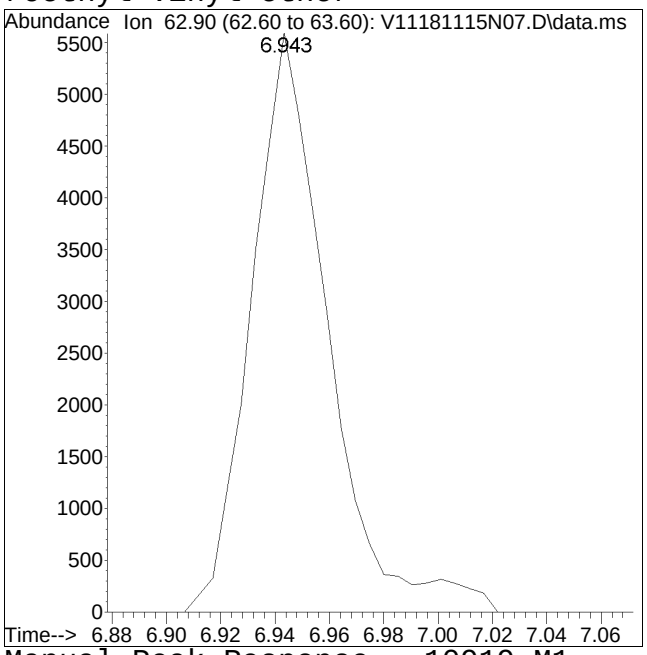
Data Path : I:\VOLATILES\VOA111\2018\1Q
Data File : V11181115N07.D
Date Inj'd : 11/15/2018 11:27 pm
Sample : I8260STDL3

Method : V111_181115N_8260.m
Operator : VOA111:JC
Instrument : VOA111
Quant Date : 11/19/2018 10:56 am

Compound #53: 2-Chloroethyl vinyl ether



Original Peak Response = 10604



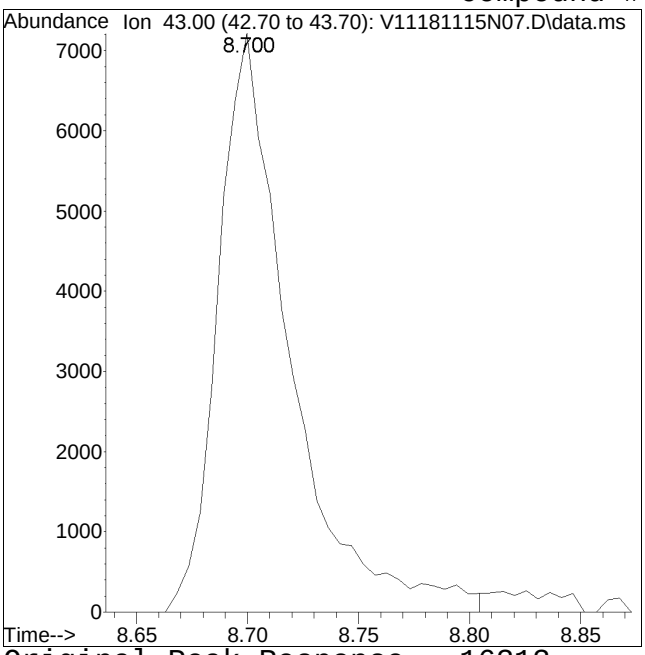
Manual Peak Response = 10919 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

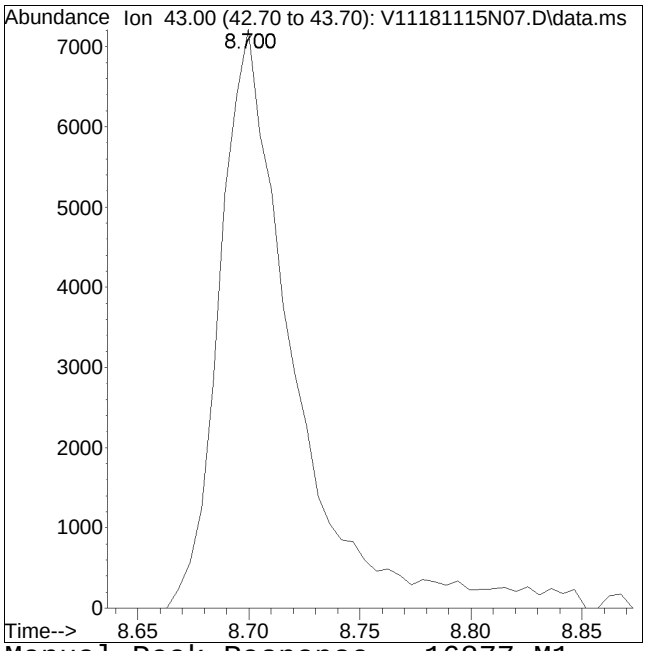
Manual Integration Report

Data Path : I:\VOLATILES\VOA111\2018\1QMethod : V111_181115N_8260.m
Data File : V11181115N07.D Operator : VOA111:JC
Date Inj'd : 11/15/2018 11:27 pm Instrument : VOA111
Sample : I8260STDL3 Quant Date : 11/19/2018 10:56 am

Compound #72: 2-Hexanone



Original Peak Response = 16313



Manual Peak Response = 16877 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2018\181115N\
Data File : V11181115N08.D
Acq On : 15 Nov 2018 11:53 pm
Operator : VOA111:JC
Sample : I8260STDL4
Misc : WG1180957,ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 19 11:08:37 2018
Quant Method : I:\VOLATILES\VOA111\2018\181115N\V111_181115N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 19 11:00:06 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2018\181115N\V11181115N07.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.549	96	93549	20.000	ug/L	0.00
Standard Area 1 = 89175			Recovery = 104.90%			
59) Chlorobenzene-d5	9.020	117	80511	20.000	ug/L	0.00
Standard Area 1 = 77380			Recovery = 104.05%			
79) 1,4-Dichlorobenzene-d4	11.830	152	46499	20.000	ug/L	0.00
Standard Area 1 = 42944			Recovery = 108.28%			
System Monitoring Compounds						
36) Dibromofluoromethane	4.773	113	24976	21.824	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 109.12%			
43) 1,2-Dichloroethane-d4	5.276	65	31080	23.583	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 117.91%			
60) Toluene-d8	7.205	98	96486	18.775	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 93.88%			
83) 4-Bromofluorobenzene	10.566	95	41547	19.064	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 95.32%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.527	85	34994	30.031	ug/L	98
3) Chloromethane	1.705	50	48359	26.029	ug/L	99
4) Vinyl chloride	1.742	62	35671	31.556	ug/L	99
5) Bromomethane	2.015	94	29945	44.650	ug/L	97
6) Chloroethane	2.114	64	24307	43.734	ug/L	100
7) Trichlorofluoromethane	2.235	101	72455	45.164	ug/L	99
8) Ethyl ether	2.502	74	23698	40.246	ug/L	93
10) 1,1-Dichloroethene	2.675	96	35332	38.877	ug/L	95
11) Carbon disulfide	2.696	76	100299	32.911	ug/L	99
12) Freon-113	2.707	101	36967	41.836	ug/L	95
13) Iodomethane	2.796	142	29479M1	40.537	ug/L	
14) Acrolein	2.964	56	5851	35.723	ug/L	92
15) Methylene chloride	3.173	84	45832	37.824	ug/L	95
17) Acetone	3.215	43	14612	40.802	ug/L	98
18) trans-1,2-Dichloroethene	3.320	96	44204	41.981	ug/L	100
19) Methyl acetate	3.325	43	39471	40.922	ug/L	95
20) Methyl tert-butyl ether	3.409	73	145021	48.959	ug/L	93
21) tert-Butyl alcohol	3.493	59	33078	255.707	ug/L	94
22) Diisopropyl ether	3.745	45	219705	42.565	ug/L	98
23) 1,1-Dichloroethane	3.860	63	97801	42.326	ug/L	99
24) Halothane	3.913	117	34756	44.853	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2018\181115N\
Data File : V11181115N08.D
Acq On : 15 Nov 2018 11:53 pm
Operator : VOA111:JC
Sample : I8260STDL4
Misc : WG1180957,ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 19 11:08:37 2018
Quant Method : I:\VOLATILES\VOA111\2018\181115N\V111_181115N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 19 11:00:06 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2018\181115N\V11181115N07.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	3.902	53	18876	45.222	ug/L		99
26) Ethyl tert-butyl ether	4.075	59	200200	48.895	ug/L		92
27) Vinyl acetate	4.086	43	128473	44.340	ug/L		97
28) cis-1,2-Dichloroethene	4.348	96	53418	45.392	ug/L		97
29) 2,2-Dichloropropane	4.442	77	83190	48.142	ug/L		91
30) Bromochloromethane	4.531	128	26968	48.590	ug/L		84
31) Cyclohexane	4.537	56	87395	41.127	ug/L		97
32) Chloroform	4.600	83	96689	47.821	ug/L		97
33) Ethyl acetate	4.715	43	57441	44.322	ug/L		100
34) Carbon tetrachloride	4.731	117	79179	53.092	ug/L		98
35) Tetrahydrofuran	4.746	42	19211	43.719	ug/L		96
37) 1,1,1-Trichloroethane	4.794	97	88959	51.563	ug/L		97
39) 2-Butanone	4.883	43	23402	41.764	ug/L		93
40) 1,1-Dichloropropene	4.909	75	59455	45.236	ug/L		100
41) Benzene	5.145	78	180397	42.035	ug/L		100
42) tert-Amyl methyl ether	5.260	73	151678	51.149	ug/L		96
44) 1,2-Dichloroethane	5.339	62	90956	52.783	ug/L		99
47) Methyl cyclohexane	5.716	83	70951	42.430	ug/L		99
48) Trichloroethene	5.727	95	50898	47.108	ug/L		100
50) Dibromomethane	6.146	93	30756	48.738	ug/L		97
51) 1,2-Dichloropropane	6.246	63	55825	42.492	ug/L	#	94
53) 2-Chloroethyl vinyl ether	6.943	63	23716	53.873	ug/L		99
54) Bromodichloromethane	6.325	83	80632	53.126	ug/L		100
57) 1,4-Dioxane	6.534	88	25557	2637.035	ug/L		94
58) cis-1,3-Dichloropropene	7.001	75	85733	48.928	ug/L		99
61) Toluene	7.263	92	124616	40.440	ug/L		98
62) 4-Methyl-2-pentanone	7.693	58	20609	43.876	ug/L		92
63) Tetrachloroethene	7.704	166	52718	41.420	ug/L		96
65) trans-1,3-Dichloropropene	7.740	75	85467	45.882	ug/L		88
67) Ethyl methacrylate	7.945	69	60494	49.570	ug/L		98
68) 1,1,2-Trichloroethane	7.918	83	35851	40.902	ug/L		96
69) Chlorodibromomethane	8.128	129	62836	47.353	ug/L		100
70) 1,3-Dichloropropane	8.238	76	75609	41.600	ug/L		100
71) 1,2-Dibromoethane	8.385	107	45667	44.789	ug/L		98
72) 2-Hexanone	8.700	43	38194	43.738	ug/L	#	94
73) Chlorobenzene	9.040	112	148044	41.724	ug/L		100
74) Ethylbenzene	9.088	91	247334	42.496	ug/L		100
75) 1,1,1,2-Tetrachloroethane	9.124	131	62212	47.180	ug/L		97
76) p/m Xylene	9.276	106	196586	88.573	ug/L		98
77) o Xylene	9.816	106	194686	92.291	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2018\181115N\
Data File : V11181115N08.D
Acq On : 15 Nov 2018 11:53 pm
Operator : VOA111:JC
Sample : I8260STDL4
Misc : WG1180957,ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 19 11:08:37 2018
Quant Method : I:\VOLATILES\VOA111\2018\181115N\V111_181115N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 19 11:00:06 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2018\181115N\V11181115N07.D
Sub List : 8260-Curve - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78)	Styrene	9.885	104	341713	98.876	ug/L	98
80)	Bromoform	9.900	173	39715	44.163	ug/L	100
82)	Isopropylbenzene	10.231	105	257070	39.855	ug/L	100
84)	Bromobenzene	10.676	156	68508	40.679	ug/L	99
85)	n-Propylbenzene	10.739	91	300475	38.691	ug/L	99
86)	1,4-Dichlorobutane	10.745	55	109119	38.892	ug/L	93
87)	1,1,2,2-Tetrachloroethane	10.834	83	57455	37.313	ug/L	98
88)	4-Ethyltoluene	10.876	105	267611	42.081	ug/L	100
89)	2-Chlorotoluene	10.902	91	220166	39.784	ug/L	100
90)	1,3,5-Trimethylbenzene	10.980	105	231112	41.091	ug/L	100
91)	1,2,3-Trichloropropane	10.965	75	49521	40.173	ug/L	95
92)	trans-1,4-Dichloro-2-b...	11.033	53	22898	46.818	ug/L	86
93)	4-Chlorotoluene	11.096	91	199661	40.338	ug/L	99
94)	tert-Butylbenzene	11.332	119	196131	41.680	ug/L	98
97)	1,2,4-Trimethylbenzene	11.416	105	239126	42.664	ug/L	100
98)	sec-Butylbenzene	11.531	105	281328	39.664	ug/L	98
99)	p-Isopropyltoluene	11.699	119	259381	42.916	ug/L	99
100)	1,3-Dichlorobenzene	11.746	146	136797	41.380	ug/L	99
101)	1,4-Dichlorobenzene	11.846	146	139527	40.198	ug/L	99
102)	p-Diethylbenzene	12.081	119	160184	44.681	ug/L	100
103)	n-Butylbenzene	12.139	91	232301	40.507	ug/L	99
104)	1,2-Dichlorobenzene	12.275	146	132396	42.377	ug/L	100
105)	1,2,4,5-Tetramethylben...	12.894	119	268442	45.659	ug/L	99
106)	1,2-Dibromo-3-chloropr...	13.078	155	10831	48.235	ug/L	96
107)	1,3,5-Trichlorobenzene	13.114	180	101921	44.012	ug/L	99
108)	Hexachlorobutadiene	13.707	225	43289	40.334	ug/L	99
109)	1,2,4-Trichlorobenzene	13.717	180	91563	43.213	ug/L	99
110)	Naphthalene	14.011	128	216609	44.982	ug/L	100
111)	1,2,3-Trichlorobenzene	14.184	180	85228	43.096	ug/L	98

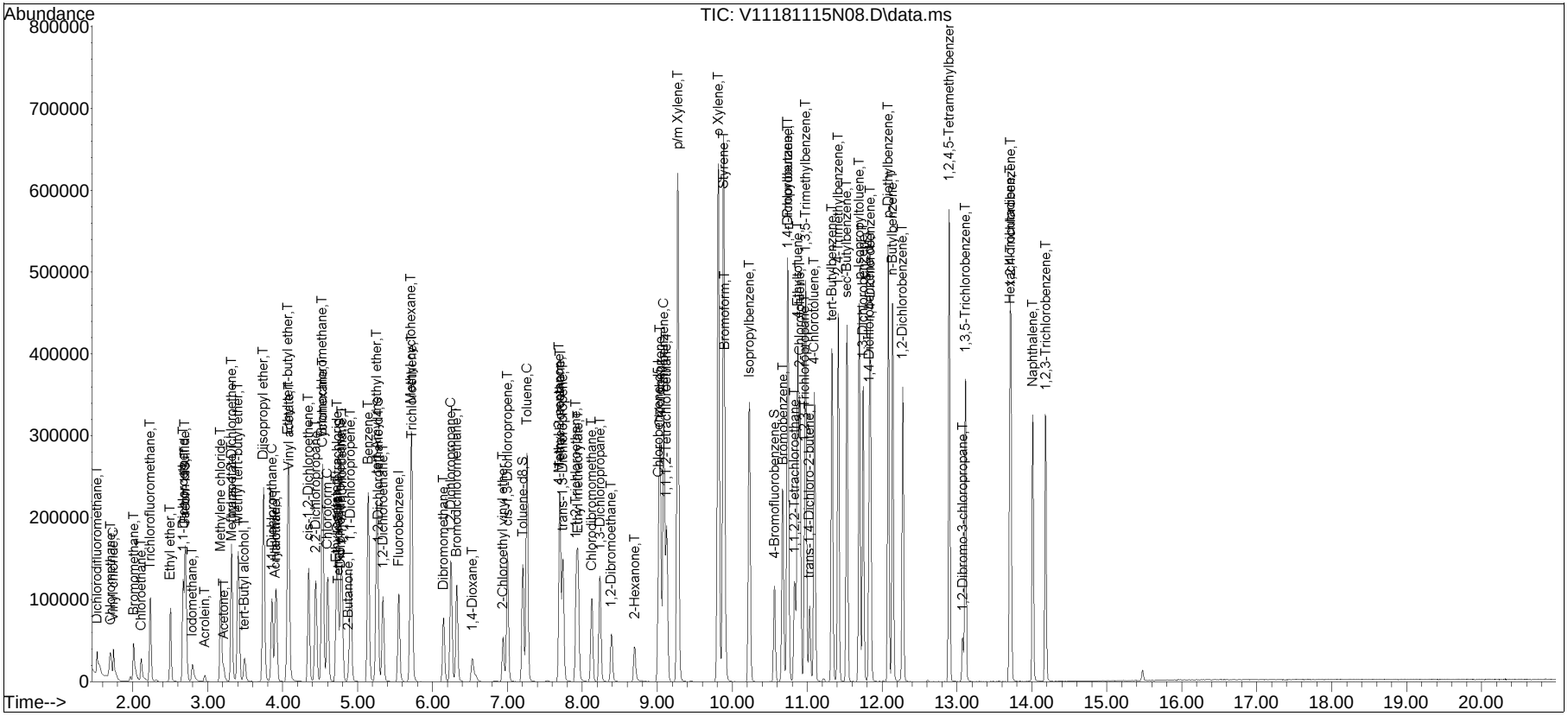
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2018\181115N\
Data File : V11181115N08.D
Acq On : 15 Nov 2018 11:53 pm
Operator : VOA111:JC
Sample : I8260STDL4
Misc : WG1180957,ICAL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 19 11:08:37 2018
Quant Method : I:\VOLATILES\VOA111\2018\181115N\V111_181115N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 19 11:00:06 2018
Response via : Initial Calibration

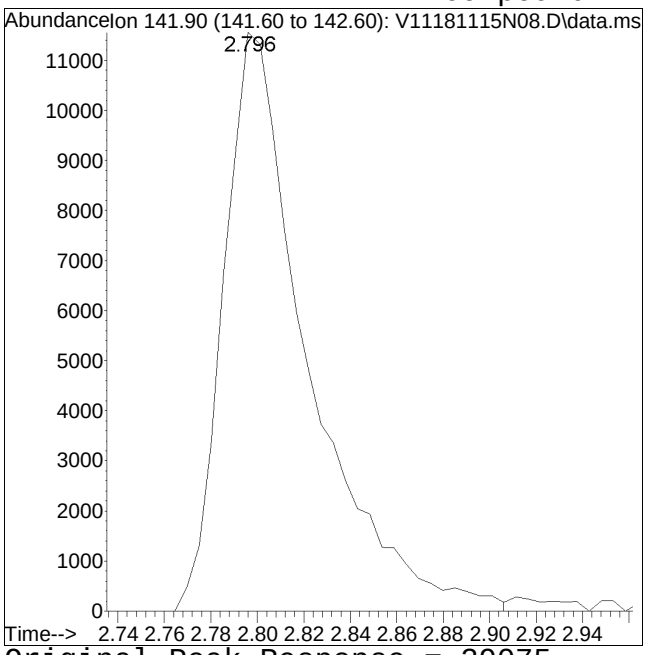
Sub List : 8260-Curve - Megamix plus Diox81115N\V11181115N07.D•

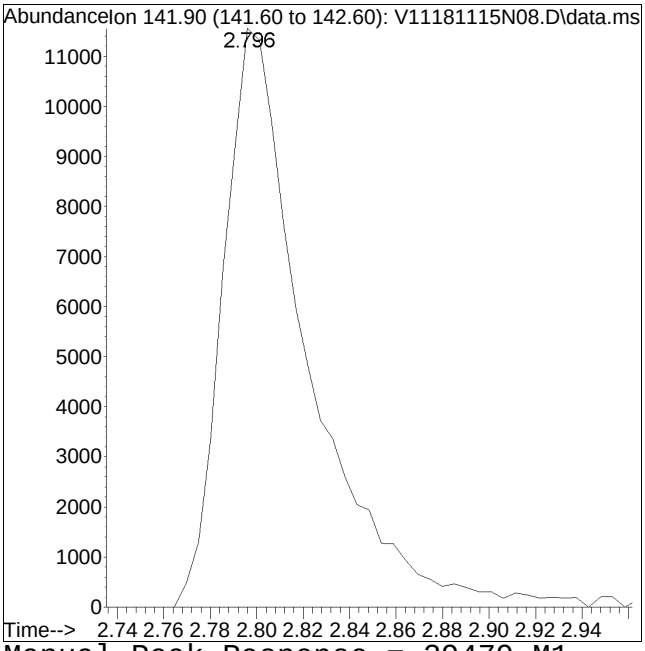


Manual Integration Report

Data Path : I:\VOLATILES\VOA111\2018\1QMethod : V111_181115N_8260.m
Data File : V11181115N08.D Operator : VOA111:JC
Date Inj'd : 11/15/2018 11:53 pm Instrument : VOA111
Sample : I8260STDL4 Quant Date : 11/19/2018 11:00 am

Compound #13: Iodomethane





Original Peak Response = 29075 Manual Peak Response = 29479 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2018\181115N\
Data File : V11181115N09.D
Acq On : 16 Nov 2018 12:19 am
Operator : VOA111:JC
Sample : I8260STDL6
Misc : WG1180957,ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 19 11:09:25 2018
Quant Method : I:\VOLATILES\VOA111\2018\181115N\V111_181115N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 19 11:00:06 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2018\181115N\V11181115N07.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	5.549	96	100758	20.000 ug/L	0.00
Standard Area 1 = 89175			Recovery = 112.99%		
59) Chlorobenzene-d5	9.020	117	85735	20.000 ug/L	0.00
Standard Area 1 = 77380			Recovery = 110.80%		
79) 1,4-Dichlorobenzene-d4	11.830	152	49234	20.000 ug/L	0.00
Standard Area 1 = 42944			Recovery = 114.65%		
System Monitoring Compounds					
36) Dibromofluoromethane	4.767	113	26702	21.662 ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 108.31%		
43) 1,2-Dichloroethane-d4	5.271	65	33663	23.716 ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 118.58%		
60) Toluene-d8	7.205	98	101822	18.606 ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 93.03%		
83) 4-Bromofluorobenzene	10.561	95	44944	19.477 ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 97.39%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.527	85	92283	73.529 ug/L #	92
3) Chloromethane	1.700	50	125387	62.661 ug/L	98
4) Vinyl chloride	1.742	62	94327	77.476 ug/L	99
5) Bromomethane	2.010	94	70008	96.918 ug/L	98
6) Chloroethane	2.104	64	64281	107.381 ug/L	100
7) Trichlorofluoromethane	2.230	101	187976	108.788 ug/L	100
8) Ethyl ether	2.502	74	64017	100.942 ug/L	94
10) 1,1-Dichloroethene	2.670	96	92496	94.495 ug/L	96
11) Carbon disulfide	2.696	76	262106	79.851 ug/L	99
12) Freon-113	2.707	101	97852	102.818 ug/L	95
13) Iodomethane	2.796	142	104958	134.003 ug/L	94
14) Acrolein	2.959	56	17086	96.855 ug/L	93
15) Methylene chloride	3.174	84	121073	92.771 ug/L	94
17) Acetone	3.210	43	37223	96.503 ug/L	95
18) trans-1,2-Dichloroethene	3.315	96	116303	102.551 ug/L	99
19) Methyl acetate	3.326	43	106617	102.628 ug/L	95
20) Methyl tert-butyl ether	3.409	73	382765	119.977 ug/L	92
21) tert-Butyl alcohol	3.493	59	90397	648.808 ug/L	91
22) Diisopropyl ether	3.745	45	580076	104.341 ug/L	98
23) 1,1-Dichloroethane	3.855	63	257114	103.311 ug/L	99
24) Halothane	3.913	117	92608	110.960 ug/L	99

Data Path : I:\VOLATILES\VOA111\2018\181115N\
Data File : V11181115N09.D
Acq On : 16 Nov 2018 12:19 am
Operator : VOA111:JC
Sample : I8260STDL6
Misc : WG1180957,ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 19 11:09:25 2018
Quant Method : I:\VOLATILES\VOA111\2018\181115N\V111_181115N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 19 11:00:06 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2018\181115N\V11181115N07.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	3.897	53	50160	111.573	ug/L		99
26) Ethyl tert-butyl ether	4.075	59	534393	121.176	ug/L		92
27) Vinyl acetate	4.081	43	349994	112.151	ug/L		97
28) cis-1,2-Dichloroethene	4.348	96	139231	109.846	ug/L		98
29) 2,2-Dichloropropane	4.442	77	215476	115.773	ug/L		91
30) Bromochloromethane	4.526	128	69654	116.520	ug/L		84
31) Cyclohexane	4.531	56	233386	101.969	ug/L		97
32) Chloroform	4.600	83	253636	116.470	ug/L		97
33) Ethyl acetate	4.710	43	155920	111.700	ug/L		98
34) Carbon tetrachloride	4.725	117	209005	130.116	ug/L		99
35) Tetrahydrofuran	4.746	42	52408	110.732	ug/L		94
37) 1,1,1-Trichloroethane	4.788	97	233826	125.835	ug/L		96
39) 2-Butanone	4.883	43	63704	105.554	ug/L		95
40) 1,1-Dichloropropene	4.909	75	157661	111.373	ug/L		100
41) Benzene	5.145	78	479066	103.643	ug/L		99
42) tert-Amyl methyl ether	5.260	73	410095	128.399	ug/L		95
44) 1,2-Dichloroethane	5.339	62	238113	128.295	ug/L		99
47) Methyl cyclohexane	5.711	83	190857	105.969	ug/L		98
48) Trichloroethene	5.722	95	134214	115.332	ug/L		99
50) Dibromomethane	6.146	93	84688	124.600	ug/L		99
51) 1,2-Dichloropropane	6.246	63	147807	104.457	ug/L	#	94
53) 2-Chloroethyl vinyl ether	6.938	63	59697	125.904	ug/L		97
54) Bromodichloromethane	6.325	83	216067	132.175	ug/L		99
57) 1,4-Dioxane	6.529	88	70856	6788.008	ug/L		92
58) cis-1,3-Dichloropropene	7.001	75	232997	123.458	ug/L		97
61) Toluene	7.263	92	329278	100.346	ug/L		99
62) 4-Methyl-2-pentanone	7.693	58	57564	115.084	ug/L		84
63) Tetrachloroethene	7.704	166	140372	103.569	ug/L		97
65) trans-1,3-Dichloropropene	7.740	75	228452	115.168	ug/L		88
67) Ethyl methacrylate	7.945	69	167466	128.863	ug/L		97
68) 1,1,2-Trichloroethane	7.919	83	96329	103.204	ug/L		96
69) Chlorodibromomethane	8.123	129	170397	120.585	ug/L		99
70) 1,3-Dichloropropane	8.233	76	202482	104.617	ug/L		99
71) 1,2-Dibromoethane	8.390	107	124230	114.418	ug/L		99
72) 2-Hexanone	8.694	43	107642	115.756	ug/L	#	94
73) Chlorobenzene	9.041	112	395301	104.622	ug/L		99
74) Ethylbenzene	9.088	91	659786	106.454	ug/L		100
75) 1,1,1,2-Tetrachloroethane	9.124	131	167889	119.565	ug/L		96
76) p/m Xylene	9.276	106	525380	222.289	ug/L		98
77) o Xylene	9.817	106	524316	233.407	ug/L		98

Data Path : I:\VOLATILES\VOA111\2018\181115N\
Data File : V11181115N09.D
Acq On : 16 Nov 2018 12:19 am
Operator : VOA111:JC
Sample : I8260STDL6
Misc : WG1180957,ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 19 11:09:25 2018
Quant Method : I:\VOLATILES\VOA111\2018\181115N\V111_181115N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 19 11:00:06 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2018\181115N\V11181115N07.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78) Styrene	9.885	104	912908	248.059	ug/L	97
80) Bromoform	9.900	173	108553	114.004	ug/L	100
82) Isopropylbenzene	10.231	105	689982	101.030	ug/L	99
84) Bromobenzene	10.676	156	182572	102.387	ug/L	100
85) n-Propylbenzene	10.739	91	800039	97.295	ug/L	98
86) 1,4-Dichlorobutane	10.745	55	293090	98.659	ug/L	93
87) 1,1,2,2-Tetrachloroethane	10.834	83	157590	96.659	ug/L	99
88) 4-Ethyltoluene	10.876	105	712850	105.866	ug/L	100
89) 2-Chlorotoluene	10.902	91	588663	100.462	ug/L	99
90) 1,3,5-Trimethylbenzene	10.980	105	614171	103.132	ug/L	99
91) 1,2,3-Trichloropropane	10.965	75	130313	99.842	ug/L	94
92) trans-1,4-Dichloro-2-b...	11.033	53	63240	122.119	ug/L	89
93) 4-Chlorotoluene	11.096	91	529344	101.004	ug/L	100
94) tert-Butylbenzene	11.332	119	521333	104.635	ug/L	98
97) 1,2,4-Trimethylbenzene	11.416	105	635272	107.046	ug/L	99
98) sec-Butylbenzene	11.531	105	751706	100.095	ug/L	99
99) p-Isopropyltoluene	11.699	119	683146	106.752	ug/L	99
100) 1,3-Dichlorobenzene	11.746	146	362741	103.630	ug/L	99
101) 1,4-Dichlorobenzene	11.846	146	370973	100.940	ug/L	100
102) p-Diethylbenzene	12.082	119	423407	111.543	ug/L	99
103) n-Butylbenzene	12.139	91	612811	100.920	ug/L	98
104) 1,2-Dichlorobenzene	12.276	146	351350	106.212	ug/L	99
105) 1,2,4,5-Tetramethylben...	12.894	119	727116	116.804	ug/L	99
106) 1,2-Dibromo-3-chloropr...	13.078	155	28901	121.558	ug/L	96
107) 1,3,5-Trichlorobenzene	13.114	180	270837	110.456	ug/L	98
108) Hexachlorobutadiene	13.707	225	114026	100.341	ug/L	99
109) 1,2,4-Trichlorobenzene	13.717	180	249414	111.171	ug/L	99
110) Naphthalene	14.011	128	599413	117.562	ug/L	100
111) 1,2,3-Trichlorobenzene	14.184	180	228862	109.295	ug/L	97

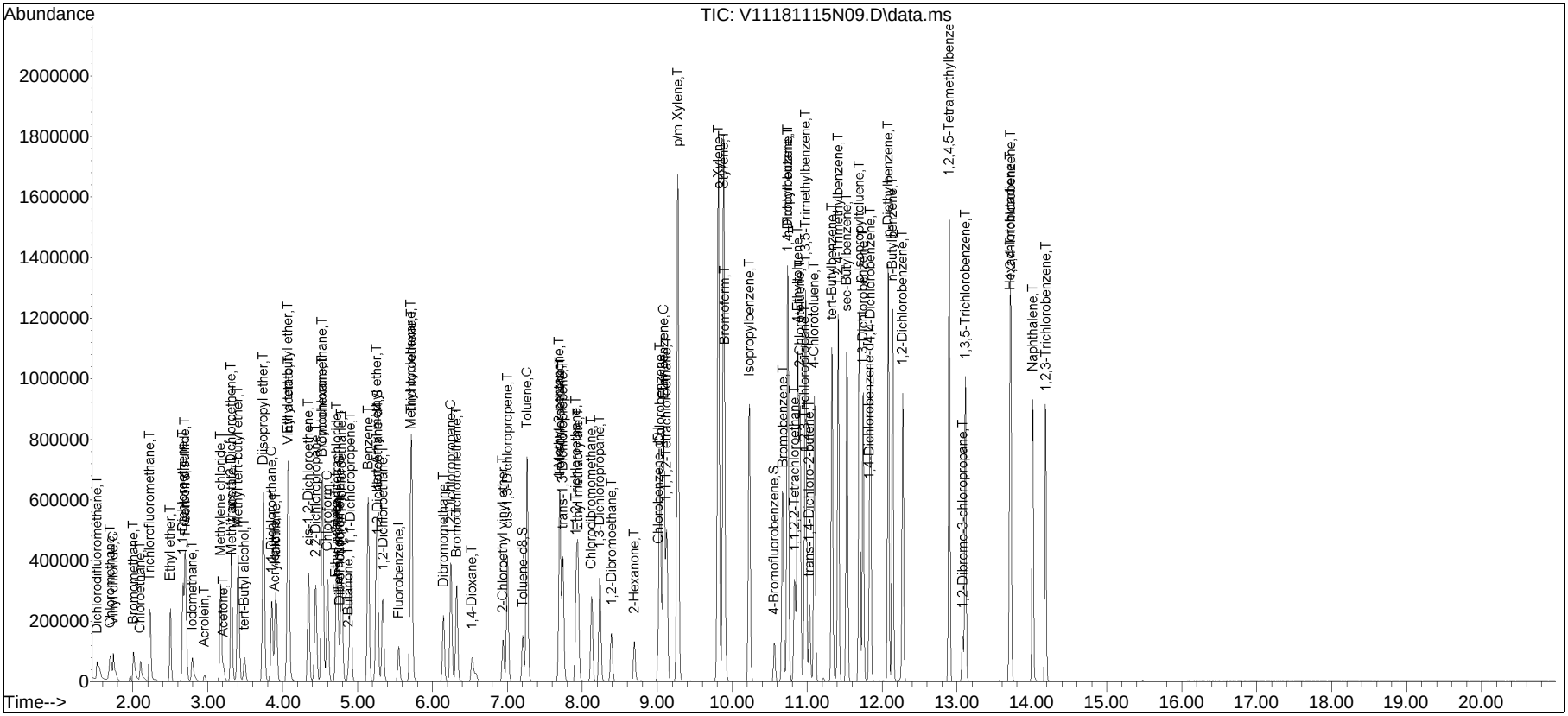
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2018\181115N\
Data File : V11181115N09.D
Acq On : 16 Nov 2018 12:19 am
Operator : VOA111:JC
Sample : I8260STDL6
Misc : WG1180957,ICAL
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Nov 19 11:09:25 2018
Quant Method : I:\VOLATILES\VOA111\2018\181115N\V111_181115N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 19 11:00:06 2018
Response via : Initial Calibration

Sub List : 8260-Curve - Megamix plus Diox81115N\V11181115N07.D•



Manual Integration Report

Data Path	: I:\VOLATILES\VOA111\2018\1	QMethod	: V111_181115N_8260.m
Data File	: V11181115N09.D	Operator	: VOA111:JC
Date Inj'd	: 11/16/2018 12:19 am	Instrument	: VOA111
Sample	: I8260STDL6	Quant Date	: 11/19/2018 11:01 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2018\181115N\
Data File : V11181115N10.D
Acq On : 16 Nov 2018 12:45 am
Operator : VOA111:JC
Sample : I8260STDL7
Misc : WG1180957,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 19 11:10:30 2018
Quant Method : I:\VOLATILES\VOA111\2018\181115N\V111_181115N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 19 11:00:06 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2018\181115N\V11181115N07.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.549	96	104635	20.000	ug/L	0.00
Standard Area 1 = 89175			Recovery = 117.34%			
59) Chlorobenzene-d5	9.020	117	92449	20.000	ug/L	0.00
Standard Area 1 = 77380			Recovery = 119.47%			
79) 1,4-Dichlorobenzene-d4	11.830	152	51710	20.000	ug/L	0.00
Standard Area 1 = 42944			Recovery = 120.41%			
System Monitoring Compounds						
36) Dibromofluoromethane	4.767	113	28510	22.272	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 111.36%			
43) 1,2-Dichloroethane-d4	5.271	65	34696	23.538	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 117.69%			
60) Toluene-d8	7.205	98	109860	18.617	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 93.09%			
83) 4-Bromofluorobenzene	10.566	95	47761	19.706	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 98.53%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.527	85	181220	139.041	ug/L	98
3) Chloromethane	1.700	50	248543	119.605	ug/L	99
4) Vinyl chloride	1.742	62	190926	151.007	ug/L	100
5) Bromomethane	2.015	94	144413	192.515	ug/L	98
6) Chloroethane	2.099	64	132784M1	213.597	ug/L	
7) Trichlorofluoromethane	2.230	101	363149	202.380	ug/L	100
8) Ethyl ether	2.502	74	132294	200.871	ug/L	92
10) 1,1-Dichloroethene	2.670	96	186917	183.882	ug/L	98
11) Carbon disulfide	2.696	76	529861	155.441	ug/L	99
12) Freon-113	2.707	101	195432	197.742	ug/L	97
13) Iodomethane	2.796	142	224557	276.076	ug/L	94
14) Acrolein	2.959	56	35146	191.849	ug/L	93
15) Methylene chloride	3.174	84	245933	181.461	ug/L	91
17) Acetone	3.210	43	76675	191.419	ug/L	94
18) trans-1,2-Dichloroethene	3.315	96	235920	200.316	ug/L	98
19) Methyl acetate	3.326	43	218352	202.394	ug/L #	95
20) Methyl tert-butyl ether	3.409	73	792269	239.133	ug/L	90
21) tert-Butyl alcohol	3.493	59	182158	1258.964	ug/L	88
22) Diisopropyl ether	3.745	45	1160488	201.008	ug/L	97
23) 1,1-Dichloroethane	3.855	63	519028	200.823	ug/L	99
24) Halothane	3.913	117	189934	219.141	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2018\181115N\
Data File : V11181115N10.D
Acq On : 16 Nov 2018 12:45 am
Operator : VOA111:JC
Sample : I8260STDL7
Misc : WG1180957,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 19 11:10:30 2018
Quant Method : I:\VOLATILES\VOA111\2018\181115N\V111_181115N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 19 11:00:06 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2018\181115N\V11181115N07.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	3.897	53	105772	226.556	ug/L		100
26) Ethyl tert-butyl ether	4.075	59	1094980	239.092	ug/L		91
27) Vinyl acetate	4.081	43	701453	216.443	ug/L	#	96
28) cis-1,2-Dichloroethene	4.348	96	286514	217.670	ug/L		97
29) 2,2-Dichloropropane	4.442	77	427443	221.151	ug/L		90
30) Bromochloromethane	4.526	128	140850	226.889	ug/L		82
31) Cyclohexane	4.532	56	470750	198.056	ug/L		96
32) Chloroform	4.600	83	508910	225.033	ug/L		97
33) Ethyl acetate	4.710	43	321218	221.593	ug/L		98
34) Carbon tetrachloride	4.731	117	415859	249.301	ug/L		98
35) Tetrahydrofuran	4.741	42	105742	215.142	ug/L	#	90
37) 1,1,1-Trichloroethane	4.788	97	459992	238.375	ug/L		96
39) 2-Butanone	4.878	43	131428	209.700	ug/L		93
40) 1,1-Dichloropropene	4.909	75	320593	218.078	ug/L		99
41) Benzene	5.145	78	979606	204.079	ug/L		98
42) tert-Amyl methyl ether	5.255	73	839636	253.145	ug/L		94
44) 1,2-Dichloroethane	5.339	62	469046	243.357	ug/L		99
47) Methyl cyclohexane	5.711	83	377501	201.833	ug/L		95
48) Trichloroethene	5.722	95	266886	220.842	ug/L		99
50) Dibromomethane	6.146	93	169981	240.824	ug/L		98
51) 1,2-Dichloropropane	6.246	63	295481	201.083	ug/L	#	95
53) 2-Chloroethyl vinyl ether	6.943	63	105286	213.826	ug/L		94
54) Bromodichloromethane	6.325	83	430099	253.356	ug/L		100
57) 1,4-Dioxane	6.534	88	136902	12629.265	ug/L		91
58) cis-1,3-Dichloropropene	7.001	75	472957	241.321	ug/L		95
61) Toluene	7.263	92	668750	188.999	ug/L		99
62) 4-Methyl-2-pentanone	7.693	58	121673	225.587	ug/L		82
63) Tetrachloroethene	7.698	166	283412	193.920	ug/L		97
65) trans-1,3-Dichloropropene	7.740	75	471568	220.464	ug/L		86
67) Ethyl methacrylate	7.945	69	355144	253.432	ug/L		95
68) 1,1,2-Trichloroethane	7.919	83	200576	199.285	ug/L		96
69) Chlorodibromomethane	8.123	129	349723	229.515	ug/L		99
70) 1,3-Dichloropropane	8.233	76	422420	202.402	ug/L		100
71) 1,2-Dibromoethane	8.390	107	257494	219.933	ug/L		99
72) 2-Hexanone	8.695	43	224816	224.205	ug/L	#	92
73) Chlorobenzene	9.041	112	803261	197.154	ug/L		99
74) Ethylbenzene	9.088	91	1336390	199.962	ug/L		99
75) 1,1,1,2-Tetrachloroethane	9.124	131	337282	222.756	ug/L		97
76) p/m Xylene	9.277	106	1054628	413.809	ug/L		98
77) o Xylene	9.817	106	1050587	433.719	ug/L		97

Data Path : I:\VOLATILES\VOA111\2018\181115N\
Data File : V11181115N10.D
Acq On : 16 Nov 2018 12:45 am
Operator : VOA111:JC
Sample : I8260STDL7
Misc : WG1180957,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 19 11:10:30 2018
Quant Method : I:\VOLATILES\VOA111\2018\181115N\V111_181115N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 19 11:00:06 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2018\181115N\V11181115N07.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78) Styrene	9.890	104	1845560	465.063	ug/L	97
80) Bromoform	9.900	173	221935	221.919	ug/L	99
82) Isopropylbenzene	10.231	105	1375623	191.779	ug/L	99
84) Bromobenzene	10.676	156	367575	196.268	ug/L	100
85) n-Propylbenzene	10.739	91	1596331	184.839	ug/L	99
86) 1,4-Dichlorobutane	10.745	55	587784	188.384	ug/L	95
87) 1,1,2,2-Tetrachloroethane	10.834	83	323627	188.994	ug/L	99
88) 4-Ethyltoluene	10.876	105	1426318	201.681	ug/L	100
89) 2-Chlorotoluene	10.907	91	1171252	190.316	ug/L	99
90) 1,3,5-Trimethylbenzene	10.981	105	1215736	194.371	ug/L	100
91) 1,2,3-Trichloropropane	10.970	75	265981	194.029	ug/L	95
92) trans-1,4-Dichloro-2-b...	11.033	53	127246	233.952	ug/L	91
93) 4-Chlorotoluene	11.101	91	1056729	191.980	ug/L	99
94) tert-Butylbenzene	11.332	119	1035129	197.810	ug/L	99
97) 1,2,4-Trimethylbenzene	11.416	105	1260366	202.208	ug/L	99
98) sec-Butylbenzene	11.531	105	1489727	188.870	ug/L	99
99) p-Isopropyltoluene	11.699	119	1349328	200.757	ug/L	99
100) 1,3-Dichlorobenzene	11.746	146	714091	194.237	ug/L	99
101) 1,4-Dichlorobenzene	11.846	146	733723	190.084	ug/L	100
102) p-Diethylbenzene	12.087	119	836148	209.729	ug/L	99
103) n-Butylbenzene	12.139	91	1213855	190.331	ug/L	99
104) 1,2-Dichlorobenzene	12.276	146	700394	201.588	ug/L	99
105) 1,2,4,5-Tetramethylben...	12.894	119	1442038	220.557	ug/L	99
106) 1,2-Dibromo-3-chloropr...	13.073	155	60946	244.066	ug/L	97
107) 1,3,5-Trichlorobenzene	13.114	180	528224	205.112	ug/L	99
108) Hexachlorobutadiene	13.707	225	224374	187.991	ug/L	99
109) 1,2,4-Trichlorobenzene	13.717	180	490059	207.975	ug/L	99
110) Naphthalene	14.011	128	1224416	228.644	ug/L	100
111) 1,2,3-Trichlorobenzene	14.184	180	455804	207.251	ug/L	97

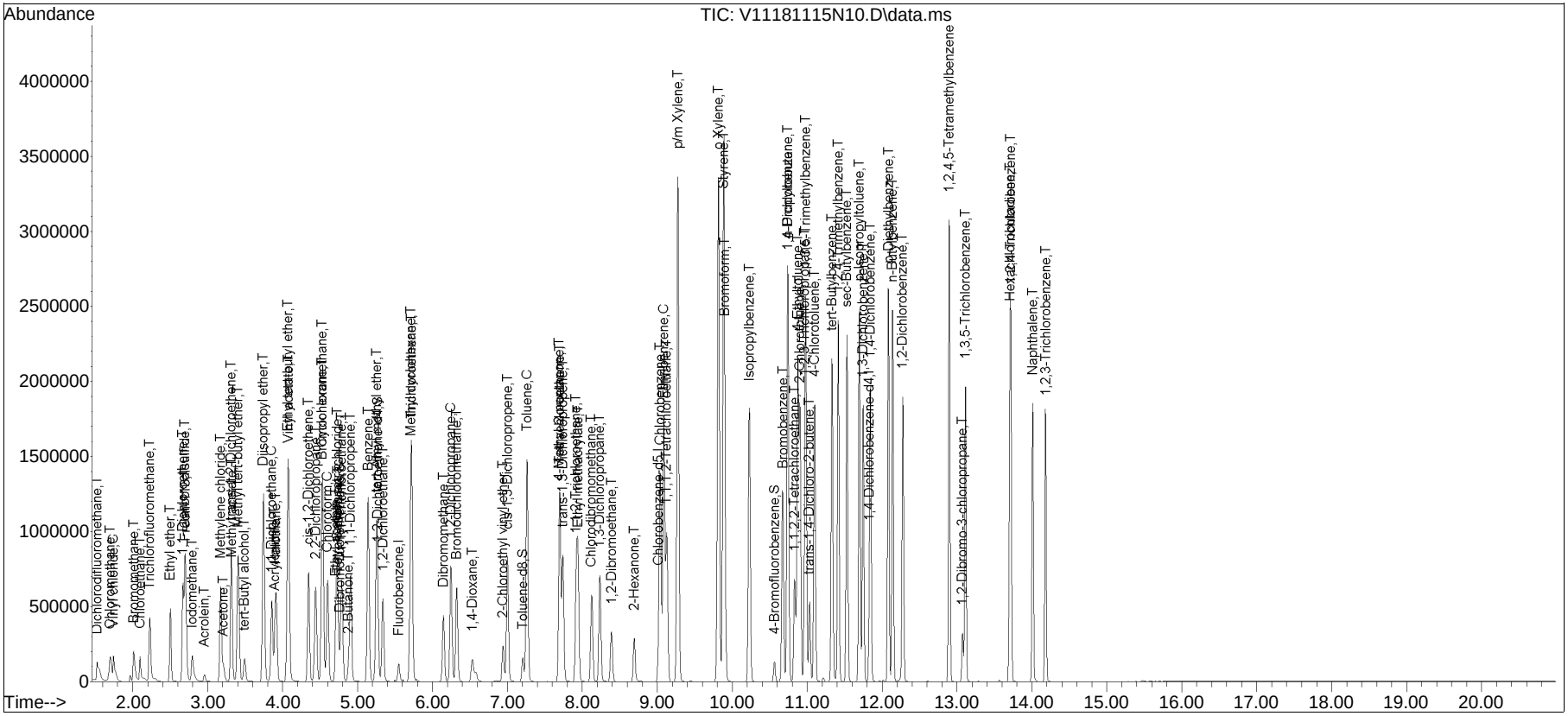
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2018\181115N\
Data File : V11181115N10.D
Acq On : 16 Nov 2018 12:45 am
Operator : VOA111:JC
Sample : I8260STDL7
Misc : WG1180957,ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 19 11:10:30 2018
Quant Method : I:\VOLATILES\VOA111\2018\181115N\V111_181115N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 19 11:00:06 2018
Response via : Initial Calibration

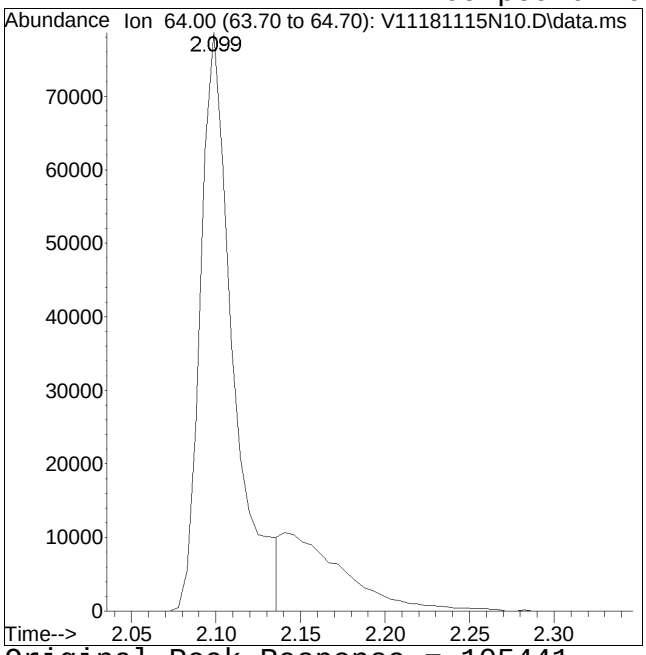
Sub List : 8260-Curve - Megamix plus Diox81115N\V11181115N07.D•



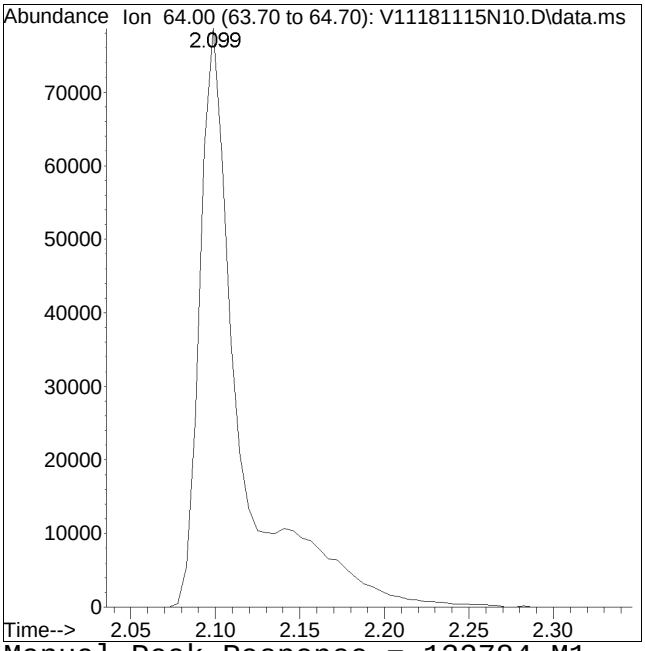
Manual Integration Report

Data Path : I:\VOLATILES\VOA111\2018\1QMethod : V111_181115N_8260.m
Data File : V11181115N10.D Operator : VOA111:JC
Date Inj'd : 11/16/2018 12:45 am Instrument : VOA111
Sample : I8260STDL7 Quant Date : 11/19/2018 11:01 am

Compound #6: Chloroethane



Original Peak Response = 105441



Manual Peak Response = 132784 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2018\181115N\
Data File : V11181115N11.D
Acq On : 16 Nov 2018 01:11 am
Operator : VOA111:JC
Sample : I8260STDL8
Misc : WG1180957,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 19 11:11:29 2018
Quant Method : I:\VOLATILES\VOA111\2018\181115N\V111_181115N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 19 11:00:06 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2018\181115N\V11181115N07.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.554	96	116448	20.000	ug/L	0.00
Standard Area 1 = 89175			Recovery = 130.58%			
59) Chlorobenzene-d5	9.020	117	99936	20.000	ug/L	0.00
Standard Area 1 = 77380			Recovery = 129.15%			
79) 1,4-Dichlorobenzene-d4	11.830	152	53519	20.000	ug/L	0.00
Standard Area 1 = 42944			Recovery = 124.63%			
System Monitoring Compounds						
36) Dibromofluoromethane	4.773	113	30568	21.457	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 107.29%			
43) 1,2-Dichloroethane-d4	5.271	65	36654	22.343	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 111.72%			
60) Toluene-d8	7.205	98	118416	18.563	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 92.81%			
83) 4-Bromofluorobenzene	10.561	95	50405	20.094	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 100.47%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.522	85	297260	204.937	ug/L	97
3) Chloromethane	1.695	50	414631	179.290	ug/L	99
4) Vinyl chloride	1.742	62	314540	223.539	ug/L	99
5) Bromomethane	2.015	94	246368	295.113	ug/L	99
6) Chloroethane	2.099	64	219113M1	316.710	ug/L	
7) Trichlorofluoromethane	2.219	101	585384	293.136	ug/L	100
8) Ethyl ether	2.502	74	215055	293.408	ug/L	91
10) 1,1-Dichloroethene	2.670	96	316364	279.655	ug/L	98
11) Carbon disulfide	2.696	76	892603	235.292	ug/L	99
12) Freon-113	2.707	101	324902	295.393	ug/L	96
13) Iodomethane	2.796	142	389113	429.855	ug/L	96
14) Acrolein	2.959	56	57886	283.924	ug/L	97
15) Methylene chloride	3.174	84	414489	274.805	ug/L	88
17) Acetone	3.215	43	117895	264.467	ug/L	91
18) trans-1,2-Dichloroethene	3.315	96	398122	303.746	ug/L	97
19) Methyl acetate	3.326	43	340384	283.501	ug/L #	94
20) Methyl tert-butyl ether	3.409	73	1264278	342.889	ug/L	89
21) tert-Butyl alcohol	3.499	59	280155	1739.836	ug/L	88
22) Diisopropyl ether	3.745	45	1881845	292.888	ug/L	96
23) 1,1-Dichloroethane	3.855	63	859283	298.747	ug/L	99
24) Halothane	3.913	117	315498	327.087	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2018\181115N\
Data File : V11181115N11.D
Acq On : 16 Nov 2018 01:11 am
Operator : VOA111:JC
Sample : I8260STDL8
Misc : WG1180957,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 19 11:11:29 2018
Quant Method : I:\VOLATILES\VOA111\2018\181115N\V111_181115N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 19 11:00:06 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2018\181115N\V11181115N07.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	3.897	53	163694	315.052	ug/L		99
26) Ethyl tert-butyl ether	4.075	59	1751666	343.681	ug/L		91
27) Vinyl acetate	4.081	43	1103345	305.916	ug/L	#	96
28) cis-1,2-Dichloroethene	4.348	96	474793	324.117	ug/L		96
29) 2,2-Dichloropropane	4.442	77	697712	324.364	ug/L		88
30) Bromochloromethane	4.531	128	229071	331.567	ug/L	#	80
31) Cyclohexane	4.531	56	765865	289.531	ug/L		95
32) Chloroform	4.600	83	827035	328.604	ug/L		96
33) Ethyl acetate	4.710	43	484993	300.632	ug/L		97
34) Carbon tetrachloride	4.725	117	664656	358.030	ug/L		98
35) Tetrahydrofuran	4.741	42	161230	294.761	ug/L	#	88
37) 1,1,1-Trichloroethane	4.788	97	738715	343.980	ug/L		96
39) 2-Butanone	4.878	43	198944	285.224	ug/L		90
40) 1,1-Dichloropropene	4.909	75	528290	322.905	ug/L		99
41) Benzene	5.145	78	1632196	305.537	ug/L		97
42) tert-Amyl methyl ether	5.260	73	1352748	366.471	ug/L		94
44) 1,2-Dichloroethane	5.339	62	732420	341.455	ug/L		99
47) Methyl cyclohexane	5.711	83	642139	308.494	ug/L		93
48) Trichloroethene	5.722	95	444884	330.786	ug/L		99
50) Dibromomethane	6.146	93	277663	353.478	ug/L		97
51) 1,2-Dichloropropane	6.246	63	504882	308.731	ug/L	#	95
53) 2-Chloroethyl vinyl ether	6.943	63	151682	276.801	ug/L		94
54) Bromodichloromethane	6.325	83	712929	377.358	ug/L		99
57) 1,4-Dioxane	6.534	88	230550	19110.777	ug/L		90
58) cis-1,3-Dichloropropene	7.001	75	790624	362.483	ug/L		93
61) Toluene	7.263	92	1112070	290.742	ug/L		99
62) 4-Methyl-2-pentanone	7.698	58	188926	324.036	ug/L		78
63) Tetrachloroethene	7.704	166	466151	295.061	ug/L		98
65) trans-1,3-Dichloropropene	7.740	75	763402	330.162	ug/L		84
67) Ethyl methacrylate	7.945	69	567337	374.523	ug/L		96
68) 1,1,2-Trichloroethane	7.919	83	326834	300.402	ug/L		97
69) Chlorodibromomethane	8.128	129	563226	341.941	ug/L		99
70) 1,3-Dichloropropane	8.233	76	679607	301.238	ug/L		100
71) 1,2-Dibromoethane	8.390	107	412522	325.949	ug/L		100
72) 2-Hexanone	8.694	43	341087	314.676	ug/L	#	90
73) Chlorobenzene	9.041	112	1342356	304.788	ug/L		100
74) Ethylbenzene	9.088	91	2203709	305.034	ug/L		100
75) 1,1,1,2-Tetrachloroethane	9.130	131	549272	335.586	ug/L		97
76) p/m Xylene	9.276	106	1735565	629.973	ug/L		98
77) o Xylene	9.817	106	1728065	659.958	ug/L		98

Data Path : I:\VOLATILES\VOA111\2018\181115N\
Data File : V11181115N11.D
Acq On : 16 Nov 2018 01:11 am
Operator : VOA111:JC
Sample : I8260STDL8
Misc : WG1180957,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 19 11:11:29 2018
Quant Method : I:\VOLATILES\VOA111\2018\181115N\V111_181115N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 19 11:00:06 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2018\181115N\V11181115N07.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
78) Styrene	9.890	104	3019143	703.797	ug/L		98
80) Bromoform	9.906	173	351061	339.171	ug/L		99
82) Isopropylbenzene	10.231	105	2215417	298.418	ug/L		99
84) Bromobenzene	10.676	156	593037	305.950	ug/L		99
85) n-Propylbenzene	10.739	91	2586281	289.343	ug/L		99
86) 1,4-Dichlorobutane	10.750	55	903029	279.637	ug/L		96
87) 1,1,2,2-Tetrachloroethane	10.834	83	509895	287.707	ug/L		98
88) 4-Ethyltoluene	10.876	105	2309137	315.476	ug/L		100
89) 2-Chlorotoluene	10.907	91	1887700	296.363	ug/L		99
90) 1,3,5-Trimethylbenzene	10.986	105	1961434	302.993	ug/L		99
91) 1,2,3-Trichloropropane	10.970	75	409639	288.724	ug/L		95
92) trans-1,4-Dichloro-2-b...	11.033	53	189581	336.778	ug/L	#	94
93) 4-Chlorotoluene	11.101	91	1697805	298.021	ug/L		99
94) tert-Butylbenzene	11.332	119	1650348	304.716	ug/L		99
97) 1,2,4-Trimethylbenzene	11.416	105	2024450	313.817	ug/L		99
98) sec-Butylbenzene	11.531	105	2368449	290.126	ug/L		99
99) p-Isopropyltoluene	11.699	119	2142158	307.944	ug/L		99
100) 1,3-Dichlorobenzene	11.751	146	1145140	300.956	ug/L		99
101) 1,4-Dichlorobenzene	11.846	146	1179337	295.201	ug/L		99
102) p-Diethylbenzene	12.087	119	1330124	322.355	ug/L		100
103) n-Butylbenzene	12.144	91	1931284	292.587	ug/L		99
104) 1,2-Dichlorobenzene	12.281	146	1110024	308.690	ug/L		99
105) 1,2,4,5-Tetramethylben...	12.899	119	2299428	339.806	ug/L		99
106) 1,2-Dibromo-3-chloropr...	13.078	155	92592	358.263	ug/L		97
107) 1,3,5-Trichlorobenzene	13.114	180	846683	317.659	ug/L		98
108) Hexachlorobutadiene	13.707	225	356621	288.694	ug/L		100
109) 1,2,4-Trichlorobenzene	13.717	180	780741	320.137	ug/L		99
110) Naphthalene	14.011	128	1891308	341.239	ug/L		100
111) 1,2,3-Trichlorobenzene	14.184	180	722275	317.313	ug/L		97

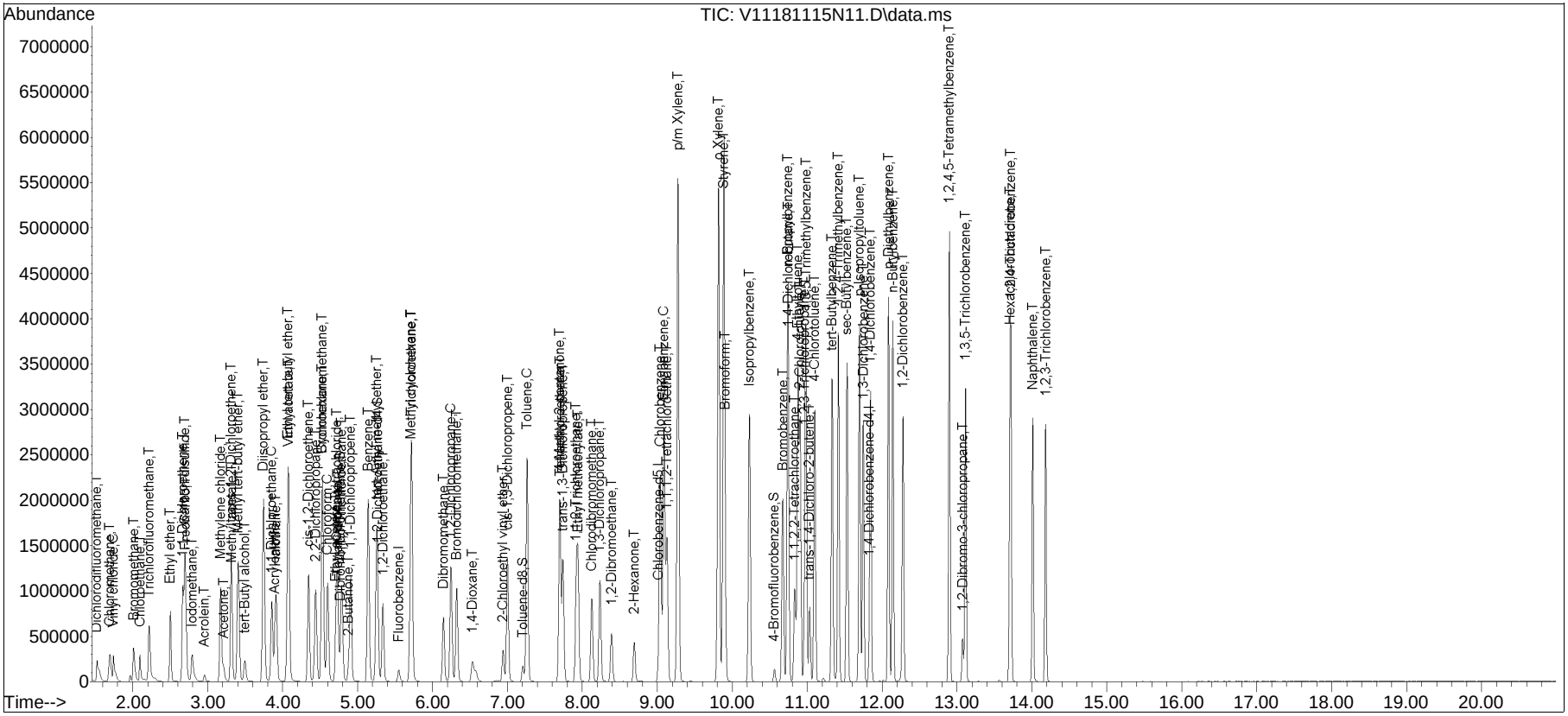
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2018\181115N\
Data File : V11181115N11.D
Acq On : 16 Nov 2018 01:11 am
Operator : VOA111:JC
Sample : I8260STDL8
Misc : WG1180957,ICAL
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 19 11:11:29 2018
Quant Method : I:\VOLATILES\VOA111\2018\181115N\V111_181115N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 19 11:00:06 2018
Response via : Initial Calibration

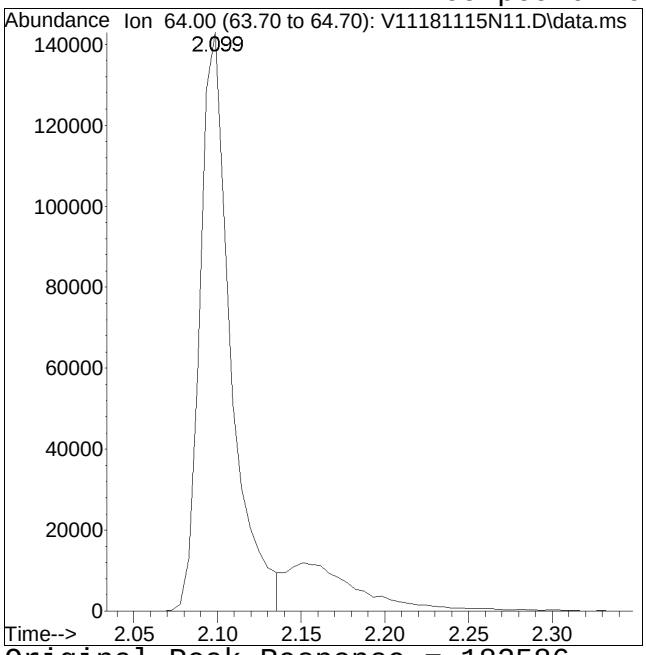
Sub List : 8260-Curve - Megamix plus Diox81115N\V11181115N07.D•



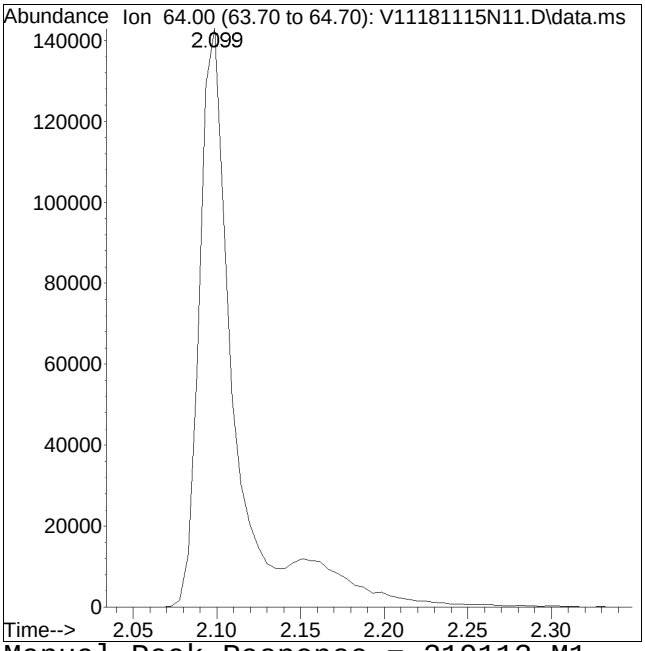
Manual Integration Report

Data Path : I:\VOLATILES\VOA111\2018\1QMethod : V111_181115N_8260.m
Data File : V11181115N11.D Operator : VOA111:JC
Date Inj'd : 11/16/2018 1:11 am Instrument : VOA111
Sample : I8260STDL8 Quant Date : 11/19/2018 11:01 am

Compound #6: Chloroethane



Original Peak Response = 182586



Manual Peak Response = 219113 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA111\2018\181115N\
Data File : V11181115N16.D
Acq On : 16 Nov 2018 03:20 am
Operator : VOA111:JC
Sample : C8260STDL3
Misc : WG1180957,ICAL
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 19 17:40:43 2018
Quant Method : I:\VOLATILES\VOA111\2018\181115N\V111_181115N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 19 17:40:28 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene		1.000	1.000	0.0	120	0.00
2	T	Dichlorodifluoromethane		0.184	0.209	-13.6	131	0.00
3	T	Chloromethane		0.255	0.315	-23.5#	150	0.00
4	C	Vinyl chloride		0.179	0.214	-19.6	138	0.00
5	T	Bromomethane	*	20.000	22.361	-11.8	116	0.00
6	T	Chloroethane		0.121	0.130	-7.4	125	0.00
7	T	Trichlorofluoromethane		0.365	0.354	3.0	108	0.00
8	T	Ethyl ether		0.121	0.133	-9.9	130	0.00
10	T	1,1-Dichloroethene		0.181	0.175	3.3	112	0.00
11	T	Carbon disulfide		0.562	0.527	6.2	117	0.00
12	T	Freon-113		0.195	0.191	2.1	114	0.00
13	T	Iodomethane	*	20.000	15.323	23.4#	162	0.00
14	T	Acrolein		0.032	0.046	-43.7#	188	0.00
15	T	Methylene chloride		0.248	0.234	5.6	120	0.00
17	T	Acetone		0.071	0.066	7.0	111	0.00
18	T	trans-1,2-Dichloroethene		0.230	0.219	4.8	115	0.00
19	T	Methyl acetate		0.198	0.213	-7.6	127	0.00
20	T	Methyl tert-butyl ether		0.743	0.750	-0.9	122	0.00
21	T	tert-Butyl alcohol		0.032	0.031	3.1	116	0.00
22	T	Diisopropyl ether		1.146	1.085	5.3	115	0.00
23	C	1,1-Dichloroethane		0.506	0.477	5.7	116	0.00
24	T	Halothane		0.180	0.170	5.6	111	0.00
25	T	Acrylonitrile		0.092	0.101	-9.8	135	0.00
26	T	Ethyl tert-butyl ether		1.036	1.011	2.4	119	0.00
27	T	Vinyl acetate		0.634	0.621	2.1	116	0.00
28	T	cis-1,2-Dichloroethene		0.276	0.267	3.3	118	0.00
29	T	2,2-Dichloropropane		0.433	0.373	13.9	103	0.00
30	T	Bromochloromethane		0.135	0.135	0.0	117	0.00
31	T	Cyclohexane		0.455	0.426	6.4	109	0.00
32	C	Chloroform		0.508	0.474	6.7	113	0.00
33	T	Ethyl acetate		0.278	0.268	3.6	112	0.00
34	T	Carbon tetrachloride		0.380	0.337	11.3	97	0.00
35	T	Tetrahydrofuran		0.092	0.099	-7.6	117	0.00
36	S	Dibromofluoromethane		0.267	0.261	2.2	115	0.00
37	T	1,1,1-Trichloroethane		0.452	0.398	11.9	101	0.00
39	T	2-Butanone		0.119	0.112	5.9	106	0.00
40	T	1,1-Dichloropropene		0.303	0.288	5.0	111	0.00
41	T	Benzene		0.952	0.888	6.7	113	0.00
42	T	tert-Amyl methyl ether		0.783	0.762	2.7	120	0.00

Data Path : I:\VOLATILES\VOA111\2018\181115N\
Data File : V11181115N16.D
Acq On : 16 Nov 2018 03:20 am
Operator : VOA111:JC
Sample : C8260STDL3
Misc : WG1180957,ICAL
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 19 17:40:43 2018
Quant Method : I:\VOLATILES\VOA111\2018\181115N\V111_181115N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 19 17:40:28 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
43	S	1,2-Dichloroethane-d4	0.330	0.320	3.0	114	0.00
44	T	1,2-Dichloroethane	0.462	0.431	6.7	112	0.00
47	T	Methyl cyclohexane	0.363	0.326	10.2	102	0.00
48	T	Trichloroethene	0.265	0.245	7.5	111	0.00
50	T	Dibromomethane	0.154	0.151	1.9	115	0.00
51	C	1,2-Dichloropropane	0.281	0.272	3.2	113	0.00
53	T	2-Chloroethyl vinyl ether	0.109	0.113	-3.7	111	0.00
54	T	Bromodichloromethane	0.407	0.401	1.5	115	0.00
57	T	1,4-Dioxane	*1000.000	817.620	18.2	100	0.00
58	T	cis-1,3-Dichloropropene	0.434	0.408	6.0	110	0.00
59	I	Chlorobenzene-d5	1.000	1.000	0.0	116	0.00
60	S	Toluene-d8	1.196	1.192	0.3	116	0.00
61	C	Toluene	0.761	0.732	3.8	115	0.00
62	T	4-Methyl-2-pentanone	0.123	0.110	10.6	109	0.00
63	T	Tetrachloroethene	0.316	0.292	7.6	104	0.00
65	T	trans-1,3-Dichloropropene	0.489	0.489	0.0	115	0.00
67	T	Ethyl methacrylate	0.364	0.357	1.9	122	0.00
68	T	1,1,2-Trichloroethane	0.212	0.216	-1.9	121	0.00
69	T	Chlorodibromomethane	0.367	0.373	-1.6	119	0.00
70	T	1,3-Dichloropropane	0.450	0.448	0.4	120	0.00
71	T	1,2-Dibromoethane	0.266	0.267	-0.4	115	0.00
72	T	2-Hexanone	* 20.000	17.918	10.4	107	0.00
73	T	Chlorobenzene	0.925	0.876	5.3	115	0.00
74	C	Ethylbenzene	1.497	1.402	6.3	110	0.00
75	T	1,1,1,2-Tetrachloroethane	0.362	0.367	-1.4	118	0.00
76	T	p/m Xylene	0.592	0.554	6.4	110	0.00
77	T	o Xylene	0.592	0.565	4.6	112	0.00
78	T	Styrene	0.984	0.987	-0.3	116	0.00
79	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	114	0.00
80	T	Bromoform	0.400	0.415	-3.7	119	0.00
82	T	Isopropylbenzene	2.794	2.542	9.0	106	0.00
83	S	4-Bromofluorobenzene	0.928	0.918	1.1	114	0.00
84	T	Bromobenzene	0.735	0.735	0.0	117	0.00
85	T	n-Propylbenzene	3.243	2.995	7.6	107	0.00
86	T	1,4-Dichlorobutane	1.142	1.155	-1.1	117	0.00
87	T	1,1,2,2-Tetrachloroethane	0.600	0.611	-1.8	120	0.00
88	T	4-Ethyltoluene	2.870	2.623	8.6	106	0.00

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA111\2018\181115N\
Data File : V11181115N16.D
Acq On : 16 Nov 2018 03:20 am
Operator : VOA111:JC
Sample : C8260STDL3
Misc : WG1180957,ICAL
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 19 17:40:43 2018
Quant Method : I:\VOLATILES\VOA111\2018\181115N\V111_181115N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 19 17:40:28 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
89	T	2-Chlorotoluene	2.391	2.238	6.4	111	0.00
90	T	1,3,5-Trimethylbenzene	2.504	2.320	7.3	108	0.00
91	T	1,2,3-Trichloropropane	0.514	0.524	-1.9	117	0.00
92	T	trans-1,4-Dichloro-2-butene	0.233	0.231	0.9	119	0.00
93	T	4-Chlorotoluene	2.155	2.135	0.9	114	0.00
94	T	tert-Butylbenzene	2.103	1.949	7.3	107	0.00
97	T	1,2,4-Trimethylbenzene	2.522	2.492	1.2	116	0.00
98	T	sec-Butylbenzene	3.026	2.716	10.2	102	0.00
99	T	p-Isopropyltoluene	2.710	2.492	8.0	105	0.00
100	T	1,3-Dichlorobenzene	1.458	1.409	3.4	114	0.00
101	T	1,4-Dichlorobenzene	1.503	1.465	2.5	113	0.00
102	T	p-Diethylbenzene	1.675	1.404	16.2	97	0.00
103	T	n-Butylbenzene	2.430	2.162	11.0	101	0.00
104	T	1,2-Dichlorobenzene	1.372	1.384	-0.9	116	0.00
105	T	1,2,4,5-Tetramethylbenzene	2.818	2.506	11.1	103	0.00
106	T	1,2-Dibromo-3-chloropropane *	20.000	18.963	5.2	118	0.00
107	T	1,3,5-Trichlorobenzene	1.070	1.009	5.7	110	0.00
108	T	Hexachlorobutadiene	0.452	0.395	12.6	96	0.00
109	T	1,2,4-Trichlorobenzene	0.942	0.906	3.8	111	0.00
110	T	Naphthalene	2.250	2.323	-3.2	124	0.00
111	T	1,2,3-Trichlorobenzene	0.892	0.869	2.6	116	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2018\181115N\
Data File : V11181115N16.D
Acq On : 16 Nov 2018 03:20 am
Operator : VOA111:JC
Sample : C8260STDL3
Misc : WG1180957,ICAL
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 19 17:40:43 2018
Quant Method : I:\VOLATILES\VOA111\2018\181115N\V111_181115N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 19 17:40:28 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2018\181115N\V11181115N07.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	5.554	96	106746	20.000 ug/L	0.00
Standard Area 1 = 89175			Recovery = 119.70%		
59) Chlorobenzene-d5	9.020	117	89867	20.000 ug/L	0.00
Standard Area 1 = 77380			Recovery = 116.14%		
79) 1,4-Dichlorobenzene-d4	11.830	152	49126	20.000 ug/L	0.00
Standard Area 1 = 42944			Recovery = 114.40%		
System Monitoring Compounds					
36) Dibromofluoromethane	4.773	113	27849	19.516 ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 97.58%		
43) 1,2-Dichloroethane-d4	5.276	65	34183	19.423 ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 97.11%		
60) Toluene-d8	7.206	98	107089	19.933 ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 99.67%		
83) 4-Bromofluorobenzene	10.566	95	45103	19.785 ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 98.92%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.527	85	22345	22.800 ug/L #	94
3) Chloromethane	1.700	50	33661	24.760 ug/L	100
4) Vinyl chloride	1.747	62	22810	23.864 ug/L	99
5) Bromomethane	2.015	94	18493	22.361 ug/L	98
6) Chloroethane	2.115	64	13873	21.432 ug/L	98
7) Trichlorofluoromethane	2.240	101	37826	19.404 ug/L	98
8) Ethyl ether	2.508	74	14239	22.060 ug/L	92
10) 1,1-Dichloroethene	2.676	96	18662	19.307 ug/L	99
11) Carbon disulfide	2.702	76	56285	18.758 ug/L	100
12) Freon-113	2.712	101	20382	19.612 ug/L	93
13) Iodomethane	2.796	142	11536	15.323 ug/L	94
14) Acrolein	2.964	56	4940	28.689 ug/L	96
15) Methylene chloride	3.174	84	25015	18.867 ug/L	92
17) Acetone	3.216	43	7083	18.605 ug/L	94
18) trans-1,2-Dichloroethene	3.320	96	23400	19.099 ug/L	97
19) Methyl acetate	3.326	43	22693	21.485 ug/L	97
20) Methyl tert-butyl ether	3.410	73	80057	20.175 ug/L	92
21) tert-Butyl alcohol	3.493	59	16621	95.935 ug/L	96
22) Diisopropyl ether	3.745	45	115864	18.938 ug/L	97
23) 1,1-Dichloroethane	3.860	63	50903	18.842 ug/L	97
24) Halothane	3.913	117	18164	18.879 ug/L	100

Data Path : I:\VOLATILES\VOA111\2018\181115N\
Data File : V11181115N16.D
Acq On : 16 Nov 2018 03:20 am
Operator : VOA111:JC
Sample : C8260STDL3
Misc : WG1180957,ICAL
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 19 17:40:43 2018
Quant Method : I:\VOLATILES\VOA111\2018\181115N\V111_181115N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 19 17:40:28 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2018\181115N\V11181115N07.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) Acrylonitrile	3.902	53	10774	21.842	ug/L		97
26) Ethyl tert-butyl ether	4.075	59	107904	19.511	ug/L		90
27) Vinyl acetate	4.086	43	66310	19.598	ug/L		97
28) cis-1,2-Dichloroethene	4.348	96	28542	19.398	ug/L		97
29) 2,2-Dichloropropane	4.442	77	39860	17.234	ug/L		91
30) Bromochloromethane	4.532	128	14368	19.971	ug/L		84
31) Cyclohexane	4.537	56	45472	18.744	ug/L		96
32) Chloroform	4.605	83	50551	18.662	ug/L		97
33) Ethyl acetate	4.715	43	28624	19.285	ug/L		99
34) Carbon tetrachloride	4.731	117	35985	17.755	ug/L		98
35) Tetrahydrofuran	4.747	42	10547	21.451	ug/L		94
37) 1,1,1-Trichloroethane	4.788	97	42499	17.598	ug/L		97
39) 2-Butanone	4.883	43	11933	18.811	ug/L	#	75
40) 1,1-Dichloropropene	4.909	75	30780	19.006	ug/L		99
41) Benzene	5.145	78	94752	18.638	ug/L		99
42) tert-Amyl methyl ether	5.260	73	81352	19.466	ug/L		95
44) 1,2-Dichloroethane	5.339	62	45956	18.633	ug/L		98
47) Methyl cyclohexane	5.711	83	34787	17.978	ug/L		97
48) Trichloroethene	5.727	95	26109	18.428	ug/L		99
50) Dibromomethane	6.146	93	16154	19.590	ug/L		98
51) 1,2-Dichloropropane	6.251	63	29059	19.345	ug/L	#	95
53) 2-Chloroethyl vinyl ether	6.943	63	12110	20.818	ug/L		96
54) Bromodichloromethane	6.325	83	42760	19.671	ug/L		99
57) 1,4-Dioxane	6.529	88	11151	817.620	ug/L	#	90
58) cis-1,3-Dichloropropene	7.001	75	43529	18.784	ug/L		97
61) Toluene	7.263	92	65746	19.237	ug/L		98
62) 4-Methyl-2-pentanone	7.698	58	9841	17.812	ug/L	#	85
63) Tetrachloroethene	7.704	166	26230	18.476	ug/L		96
65) trans-1,3-Dichloropropene	7.740	75	43976	20.004	ug/L		88
67) Ethyl methacrylate	7.945	69	32093	19.646	ug/L		97
68) 1,1,2-Trichloroethane	7.919	83	19391	20.366	ug/L		97
69) Chlorodibromomethane	8.123	129	33539	20.352	ug/L		99
70) 1,3-Dichloropropane	8.238	76	40264	19.907	ug/L		100
71) 1,2-Dibromoethane	8.390	107	24020	20.062	ug/L		99
72) 2-Hexanone	8.700	43	18034M1	17.918	ug/L		
73) Chlorobenzene	9.041	112	78749	18.941	ug/L		99
74) Ethylbenzene	9.088	91	125976	18.727	ug/L		99
75) 1,1,1,2-Tetrachloroethane	9.125	131	32960	20.284	ug/L		97
76) p/m Xylene	9.271	106	99648	37.440	ug/L		97
77) o Xylene	9.817	106	101495	38.139	ug/L		100

Data Path : I:\VOLATILES\VOA111\2018\181115N\
Data File : V11181115N16.D
Acq On : 16 Nov 2018 03:20 am
Operator : VOA111:JC
Sample : C8260STDL3
Misc : WG1180957,ICAL
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 19 17:40:43 2018
Quant Method : I:\VOLATILES\VOA111\2018\181115N\V111_181115N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 19 17:40:28 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2018\181115N\V11181115N07.D
Sub List : 8260-Curve - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
78) Styrene	9.885	104	177381	40.109	ug/L	97
80) Bromoform	9.900	173	20364	20.735	ug/L	99
82) Isopropylbenzene	10.226	105	124901	18.198	ug/L	100
84) Bromobenzene	10.676	156	36095	20.000	ug/L	99
85) n-Propylbenzene	10.739	91	147111	18.467	ug/L	98
86) 1,4-Dichlorobutane	10.750	55	56728	20.214	ug/L	93
87) 1,1,2,2-Tetrachloroethane	10.829	83	30035	20.388	ug/L	99
88) 4-Ethyltoluene	10.876	105	128854	18.278	ug/L	100
89) 2-Chlorotoluene	10.902	91	109966	18.724	ug/L	100
90) 1,3,5-Trimethylbenzene	10.981	105	113950	18.525	ug/L	100
91) 1,2,3-Trichloropropane	10.970	75	25751	20.401	ug/L	94
92) trans-1,4-Dichloro-2-b...	11.033	53	11356	19.846	ug/L	89
93) 4-Chlorotoluene	11.101	91	104879	19.814	ug/L	98
94) tert-Butylbenzene	11.332	119	95762	18.537	ug/L	98
97) 1,2,4-Trimethylbenzene	11.416	105	122435	19.762	ug/L	99
98) sec-Butylbenzene	11.531	105	133414	17.947	ug/L	99
99) p-Isopropyltoluene	11.699	119	122438	18.396	ug/L	99
100) 1,3-Dichlorobenzene	11.746	146	69222	19.331	ug/L	99
101) 1,4-Dichlorobenzene	11.846	146	71957	19.497	ug/L	99
102) p-Diethylbenzene	12.082	119	68989	16.764	ug/L	100
103) n-Butylbenzene	12.139	91	106193	17.788	ug/L	98
104) 1,2-Dichlorobenzene	12.276	146	68002	20.181	ug/L	99
105) 1,2,4,5-Tetramethylben...	12.894	119	123121	17.784	ug/L	99
106) 1,2-Dibromo-3-chloropr...	13.073	155	5159	18.963	ug/L	93
107) 1,3,5-Trichlorobenzene	13.115	180	49573	18.869	ug/L	98
108) Hexachlorobutadiene	13.707	225	19386	17.454	ug/L	99
109) 1,2,4-Trichlorobenzene	13.717	180	44504	19.241	ug/L	99
110) Naphthalene	14.011	128	114104	20.649	ug/L	100
111) 1,2,3-Trichlorobenzene	14.184	180	42667	19.469	ug/L	97

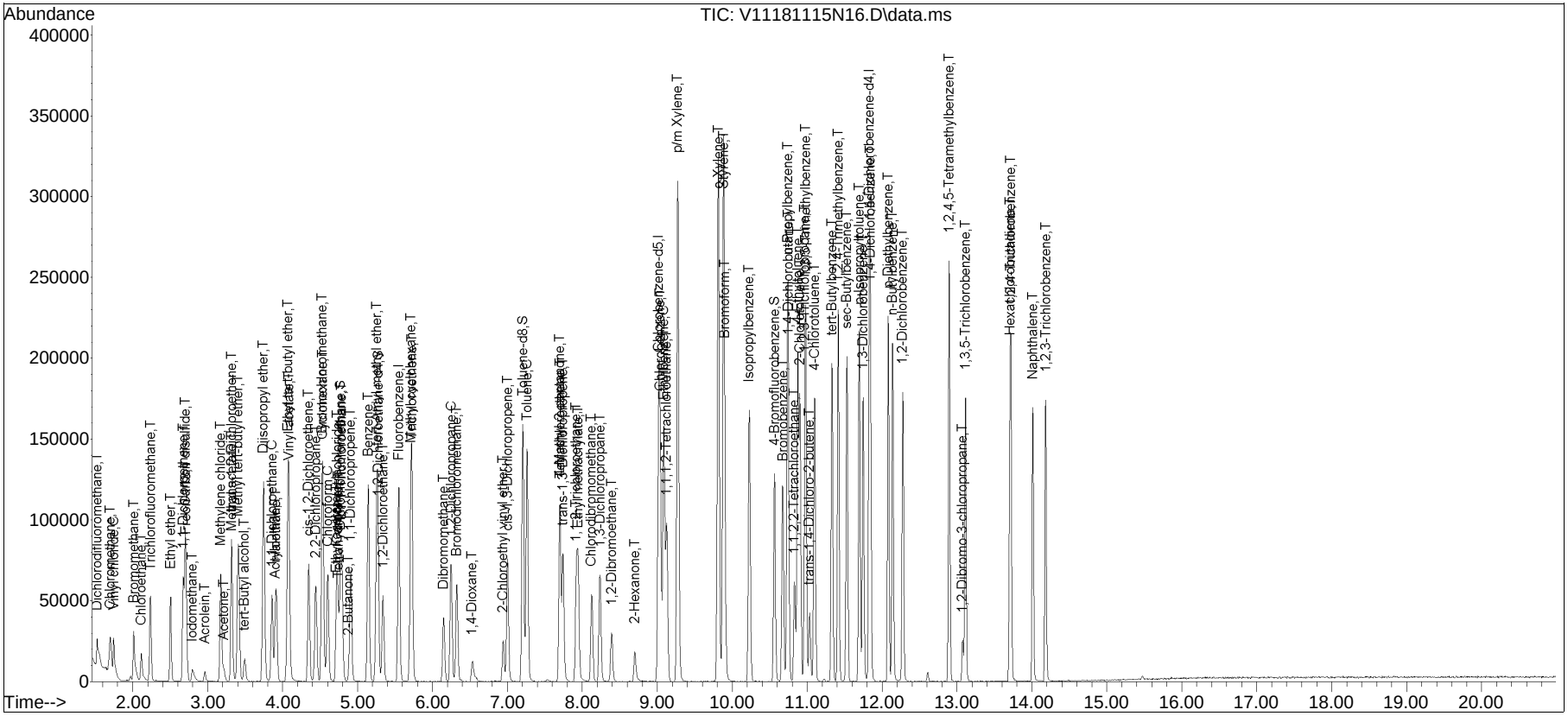
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2018\181115N\
Data File : V11181115N16.D
Acq On : 16 Nov 2018 03:20 am
Operator : VOA111:JC
Sample : C8260STDL3
Misc : WG1180957,ICAL
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Nov 19 17:40:43 2018
Quant Method : I:\VOLATILES\VOA111\2018\181115N\V111_181115N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 19 17:40:28 2018
Response via : Initial Calibration

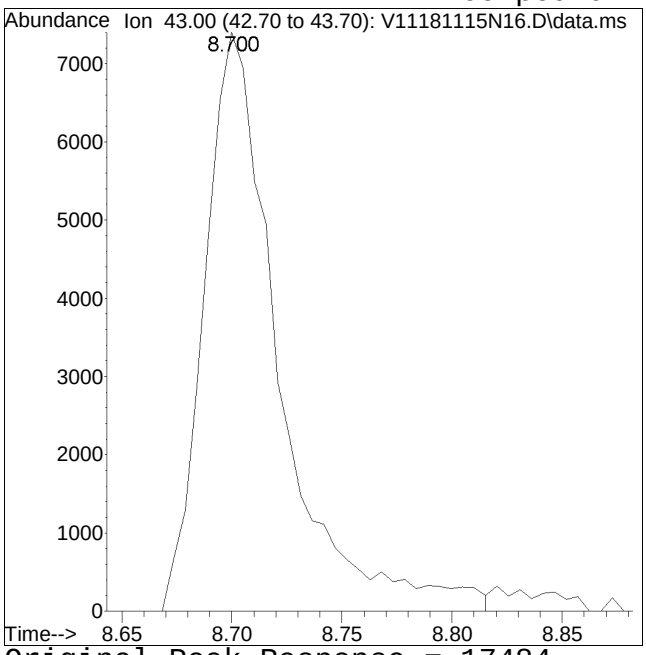
Sub List : 8260-Curve - Megamix plus Diox81115N\V11181115N07.D•

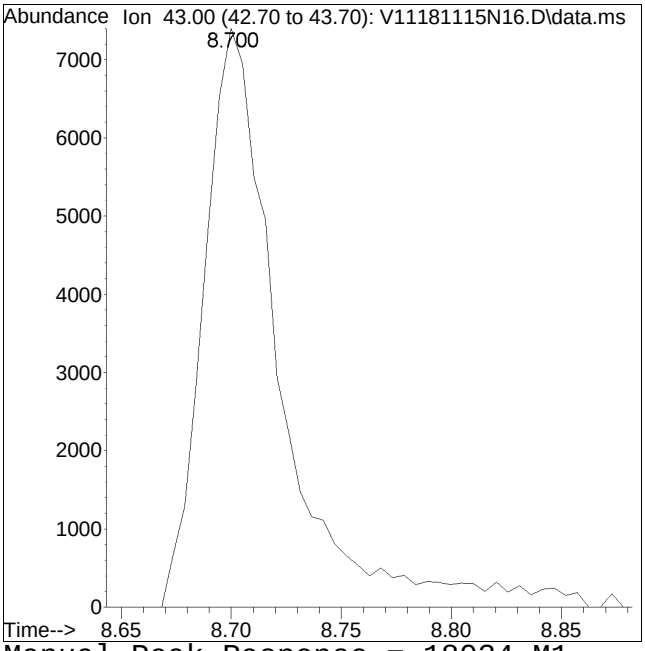


Manual Integration Report

Data Path : I:\VOLATILES\VOA111\2018\1QMethod : V111_181115N_8260.m
Data File : V11181115N16.D Operator : VOA111:JC
Date Inj'd : 11/16/2018 3:20 am Instrument : VOA111
Sample : C8260STDL3 Quant Date : 11/19/2018 5:40 pm

Compound #72: 2-Hexanone





Original Peak Response = 17484 Manual Peak Response = 18034 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Continuing Calibration

Continuing Calibration
Form 7

Client	: CHA Companies	Lab Number	: L1849060		
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000		
Instrument ID	: VOA104	Calibration Date	: 12/06/18 06:44		
Lab File ID	: V04181206A01	Init. Calib. Date(s)	: 10/29/18	10/30/18	
Sample No	: WG1186463-2	Init. Calib. Times	: 22:59	02:37	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	96	0
Dichlorodifluoromethane	0.23	0.221	-	3.9	20	84	0
Chloromethane	0.469	0.379	-	19.2	20	74	0
Vinyl chloride	0.342	0.328	-	4.1	20	86	0
Bromomethane	20	24.385	-	-21.9*	20	99	0
Chloroethane	0.154	0.153	-	0.6	20	95	0
Trichlorofluoromethane	0.254	0.281	-	-10.6	20	96	0
Ethyl ether	0.092	0.101	-	-9.8	20	98	0
1,1-Dichloroethene	0.162	0.176	-	-8.6	20	99	0
Carbon disulfide	0.551	0.505	-	8.3	20	88	0
Freon-113	0.176	0.186	-	-5.7	20	92	0
Acrolein	0.05	0.044*	-	12	20	78	0
Methylene chloride	0.3	0.275	-	8.3	20	87	0
Acetone	0.089	0.081*	-	9	20	85	0
trans-1,2-Dichloroethene	0.262	0.268	-	-2.3	20	90	0
Methyl acetate	0.248	0.235	-	5.2	20	87	0
Methyl tert-butyl ether	0.69	0.669	-	3	20	87	0
tert-Butyl alcohol	0.042	0.046*	-	-9.5	20	95	-.01
Diisopropyl ether	1.236	1.267	-	-2.5	20	91	0
1,1-Dichloroethane	0.653	0.655	-	-0.3	20	89	0
Halothane	0.197	0.215	-	-9.1	20	95	0
Acrylonitrile	0.12	0.121	-	-0.8	20	86	0
Ethyl tert-butyl ether	1.167	1.202	-	-3	20	91	0
Vinyl acetate	0.617	0.622	-	-0.8	20	84	0
cis-1,2-Dichloroethene	0.292	0.303	-	-3.8	20	91	0
2,2-Dichloropropane	0.365	0.386	-	-5.8	20	95	0
Bromochloromethane	0.14	0.142	-	-1.4	20	88	0
Cyclohexane	0.634	0.67	-	-5.7	20	93	0
Chloroform	0.475	0.48	-	-1.1	20	92	0
Ethyl acetate	0.306	0.331	-	-8.2	20	90	0
Carbon tetrachloride	0.326	0.333	-	-2.1	20	91	0
Tetrahydrofuran	0.099	0.103	-	-4	20	90	0
Dibromofluoromethane	0.255	0.285	-	-11.8	20	108	0
1,1,1-Trichloroethane	0.383	0.395	-	-3.1	20	91	0
2-Butanone	0.151	0.143	-	5.3	20	78	0
1,1-Dichloropropene	0.322	0.34	-	-5.6	20	92	0
Benzene	1.043	1.05	-	-0.7	20	91	0
tert-Amyl methyl ether	0.713	0.745	-	-4.5	20	93	0
1,2-Dichloroethane-d4	0.289	0.306	-	-5.9	20	102	0
1,2-Dichloroethane	0.414	0.406	-	1.9	20	87	0
Methyl cyclohexane	0.396	0.436	-	-10.1	20	97	0
Trichloroethene	0.277	0.286	-	-3.2	20	90	0
Dibromomethane	0.16	0.161	-	-0.6	20	87	0
1,2-Dichloropropane	0.393	0.391	-	0.5	20	89	0
2-Chloroethyl vinyl ether	0.204	0.197	-	3.4	20	89	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: CHA Companies	Lab Number	: L1849060		
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000		
Instrument ID	: VOA104	Calibration Date	: 12/06/18 06:44		
Lab File ID	: V04181206A01	Init. Calib. Date(s)	: 10/29/18	10/30/18	
Sample No	: WG1186463-2	Init. Calib. Times	: 22:59	02:37	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Bromodichloromethane	0.354	0.36	-	-1.7	20	88	0
1,4-Dioxane	1000	863.426	-	13.7	20	76	0
cis-1,3-Dichloropropene	0.404	0.434	-	-7.4	20	91	0
Chlorobenzene-d5	1	1	-	0	20	101	0
Toluene-d8	1.326	1.435	-	-8.2	20	110	0
Toluene	0.892	0.884	-	0.9	20	93	0
4-Methyl-2-pentanone	0.199	0.202	-	-1.5	20	90	0
Tetrachloroethene	0.369	0.385	-	-4.3	20	94	0
trans-1,3-Dichloropropene	20	19.02	-	4.9	20	91	0
Ethyl methacrylate	0.436	0.42	-	3.7	20	90	0
1,1,2-Trichloroethane	0.273	0.269	-	1.5	20	89	0
Chlorodibromomethane	0.396	0.384	-	3	20	90	0
1,3-Dichloropropane	0.518	0.508	-	1.9	20	90	0
1,2-Dibromoethane	0.332	0.317	-	4.5	20	89	0
2-Hexanone	0.312	0.31	-	0.6	20	94	0
Chlorobenzene	1.029	1.016	-	1.3	20	93	0
Ethylbenzene	1.704	1.716	-	-0.7	20	94	0
1,1,1,2-Tetrachloroethane	0.368	0.372	-	-1.1	20	92	0
p/m Xylene	0.641	0.664	-	-3.6	20	94	0
o Xylene	0.631	0.647	-	-2.5	20	94	0
Styrene	1.031	1.071	-	-3.9	20	94	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	101	0
Bromoform	0.488	0.477	-	2.3	20	90	0
Isopropylbenzene	3.337	3.357	-	-0.6	20	96	0
4-Bromofluorobenzene	0.965	1.057	-	-9.5	20	112	0
Bromobenzene	0.866	0.863	-	0.3	20	93	0
n-Propylbenzene	3.933	3.959	-	-0.7	20	95	0
1,4-Dichlorobutane	1.66	1.611	-	3	20	91	0
1,1,2,2-Tetrachloroethane	0.84	0.878	-	-4.5	20	96	0
4-Ethyltoluene	3.218	3.401	-	-5.7	20	100	0
2-Chlorotoluene	2.408	2.354	-	2.2	20	95	0
1,3,5-Trimethylbenzene	2.859	2.883	-	-0.8	20	97	0
1,2,3-Trichloropropane	0.64	0.63	-	1.6	20	92	0
trans-1,4-Dichloro-2-buten	0.29	0.289	-	0.3	20	93	0
4-Chlorotoluene	2.415	2.418	-	-0.1	20	93	0
tert-Butylbenzene	2.341	2.357	-	-0.7	20	96	0
1,2,4-Trimethylbenzene	2.829	2.852	-	-0.8	20	96	0
sec-Butylbenzene	3.613	3.659	-	-1.3	20	96	0
p-Isopropyltoluene	3	3.073	-	-2.4	20	97	0
1,3-Dichlorobenzene	1.602	1.623	-	-1.3	20	95	0
1,4-Dichlorobenzene	1.693	1.706	-	-0.8	20	99	0
p-Diethylbenzene	1.741	1.884	-	-8.2	20	102	0
n-Butylbenzene	2.791	2.851	-	-2.1	20	96	0
1,2-Dichlorobenzene	1.537	1.554	-	-1.1	20	95	0
1,2,4,5-Tetramethylbenzene	2.808	3.044	-	-8.4	20	102	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: CHA Companies	**Lab Number**	: L1849060		
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000		
Instrument ID	: VOA104	**Calibration Date**	: 12/06/18 06:44		
Lab File ID	: V04181206A01	**Init. Calib. Date(s)**	: 10/29/18	10/30/18	
Sample No	: WG1186463-2	**Init. Calib. Times**	: 22:59	02:37	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dibromo-3-chloropropan	20	18.764	-	6.2	20	91	0
1,3,5-Trichlorobenzene	1.103	1.221	-	-10.7	20	103	0
Hexachlorobutadiene	0.501	0.524	-	-4.6	20	100	0
1,2,4-Trichlorobenzene	1.041	1.098	-	-5.5	20	97	0
Naphthalene	2.625	2.586	-	1.5	20	91	0
1,2,3-Trichlorobenzene	0.997	0.998	-	-0.1	20	93	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: CHA Companies	Lab Number	: L1849060		
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000		
Instrument ID	: VOA111	Calibration Date	: 12/06/18 14:37		
Lab File ID	: V11181206N01	Init. Calib. Date(s)	: 11/15/18	11/16/18	
Sample No	: WG1186672-2	Init. Calib. Times	: 21:43	01:11	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	93	0
Dichlorodifluoromethane	0.184	0.202	-	-9.8	20	98	0
Chloromethane	0.255	0.23	-	9.8	20	85	-.01
Vinyl chloride	0.179	0.199	-	-11.2	20	99	0
Bromomethane	20	22.084	-	-10.4	20	89	0
Chloroethane	0.121	0.13	-	-7.4	20	97	0
Trichlorofluoromethane	0.365	0.413	-	-13.2	20	98	0
Ethyl ether	0.121	0.111	-	8.3	20	84	0
1,1-Dichloroethene	0.181	0.201	-	-11	20	99	0
Carbon disulfide	0.562	0.535	-	4.8	20	92	0
Freon-113	0.195	0.217	-	-11.3	20	101	0
Acrolein	0.032	0.024*	-	25*	20	75	0
Methylene chloride	0.248	0.241	-	2.8	20	96	-.01
Acetone	0.071	0.057*	-	19.7	20	74	0
trans-1,2-Dichloroethene	0.23	0.246	-	-7	20	100	0
Methyl acetate	0.198	0.148	-	25.3*	20	69	0
Methyl tert-butyl ether	0.743	0.68	-	8.5	20	86	-.01
tert-Butyl alcohol	0.032	0.027*	-	15.6	20	79	-.02
Diisopropyl ether	1.146	0.91	-	20.6*	20	75	0
1,1-Dichloroethane	0.506	0.476	-	5.9	20	90	-.01
Halothane	0.18	0.192	-	-6.7	20	98	-.01
Acrylonitrile	0.092	0.062	-	32.6*	20	65	-.01
Ethyl tert-butyl ether	1.036	0.909	-	12.3	20	83	-.01
Vinyl acetate	0.634	0.494	-	22.1*	20	72	-.01
cis-1,2-Dichloroethene	0.276	0.276	-	0	20	94	-.01
2,2-Dichloropropane	0.433	0.471	-	-8.8	20	101	0
Bromochloromethane	0.135	0.136	-	-0.7	20	91	-.01
Cyclohexane	0.455	0.414	-	9	20	82	-.01
Chloroform	0.508	0.513	-	-1	20	95	-.01
Ethyl acetate	0.278	0.208	-	25.2*	20	67	-.01
Carbon tetrachloride	0.38	0.445	-	-17.1	20	99	0
Tetrahydrofuran	0.092	0.065	-	29.3*	20	60	0
Dibromofluoromethane	0.267	0.27	-	-1.1	20	92	0
1,1,1-Trichloroethane	0.452	0.508	-	-12.4	20	100	0
2-Butanone	0.119	0.087*	-	26.9*	20	64	-.01
1,1-Dichloropropene	0.303	0.325	-	-7.3	20	97	0
Benzene	0.952	0.933	-	2	20	92	-.01
tert-Amyl methyl ether	0.783	0.694	-	11.4	20	85	0
1,2-Dichloroethane-d4	0.33	0.321	-	2.7	20	89	-.01
1,2-Dichloroethane	0.462	0.42	-	9.1	20	85	-.01
Methyl cyclohexane	0.363	0.389	-	-7.2	20	94	-.01
Trichloroethene	0.265	0.275	-	-3.8	20	96	-.01
Dibromomethane	0.154	0.145	-	5.8	20	85	-.01
1,2-Dichloropropane	0.281	0.252	-	10.3	20	81	0
2-Chloroethyl vinyl ether	0.109	0.073	-	33*	20	55	-.01

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: CHA Companies	Lab Number	: L1849060		
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000		
Instrument ID	: VOA111	Calibration Date	: 12/06/18 14:37		
Lab File ID	: V11181206N01	Init. Calib. Date(s)	: 11/15/18	11/16/18	
Sample No	: WG1186672-2	Init. Calib. Times	: 21:43	01:11	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Bromodichloromethane	0.407	0.39	-	4.2	20	87	-.01
1,4-Dioxane	1000	905.042	-	9.5	20	86	0
cis-1,3-Dichloropropene	0.434	0.419	-	3.5	20	88	-.01
Chlorobenzene-d5	1	1	-	0	20	86	-.01
Toluene-d8	1.196	1.243	-	-3.9	20	89	0
Toluene	0.761	0.822	-	-8	20	96	-.01
4-Methyl-2-pentanone	0.123	0.094*	-	23.6*	20	69	-.01
Tetrachloroethene	0.316	0.372	-	-17.7	20	98	-.01
trans-1,3-Dichloropropene	0.489	0.485	-	0.8	20	84	0
Ethyl methacrylate	0.364	0.303	-	16.8	20	77	-.01
1,1,2-Trichloroethane	0.212	0.198	-	6.6	20	82	-.01
Chlorodibromomethane	0.367	0.366	-	0.3	20	86	0
1,3-Dichloropropane	0.45	0.427	-	5.1	20	85	-.01
1,2-Dibromoethane	0.266	0.262	-	1.5	20	83	-.01
2-Hexanone	20	14.449	-	27.8*	20	63	0
Chlorobenzene	0.925	0.956	-	-3.4	20	93	-.01
Ethylbenzene	1.497	1.609	-	-7.5	20	94	-.01
1,1,1,2-Tetrachloroethane	0.362	0.398	-	-9.9	20	95	-.01
p/m Xylene	0.592	0.641	-	-8.3	20	94	-.01
o Xylene	0.592	0.62	-	-4.7	20	91	0
Styrene	0.984	1.016	-	-3.3	20	88	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	80	0
Bromoform	0.4	0.428	-	-7	20	86	-.01
Isopropylbenzene	2.794	3.231	-	-15.6	20	94	-.01
4-Bromofluorobenzene	0.928	0.934	-	-0.6	20	81	0
Bromobenzene	0.735	0.804	-	-9.4	20	89	0
n-Propylbenzene	3.243	3.617	-	-11.5	20	90	0
1,4-Dichlorobutane	1.142	1.009	-	11.6	20	71	0
1,1,2,2-Tetrachloroethane	0.6	0.565	-	5.8	20	77	-.01
4-Ethyltoluene	2.87	3.299	-	-14.9	20	93	0
2-Chlorotoluene	2.391	2.664	-	-11.4	20	92	0
1,3,5-Trimethylbenzene	2.504	2.838	-	-13.3	20	93	0
1,2,3-Trichloropropane	0.514	0.475	-	7.6	20	74	0
trans-1,4-Dichloro-2-buten	0.233	0.202	-	13.3	20	73	0
4-Chlorotoluene	2.155	2.354	-	-9.2	20	88	0
tert-Butylbenzene	2.103	2.429	-	-15.5	20	93	0
1,2,4-Trimethylbenzene	2.522	2.852	-	-13.1	20	92	0
sec-Butylbenzene	3.026	3.471	-	-14.7	20	91	0
p-Isopropyltoluene	2.71	3.145	-	-16.1	20	92	0
1,3-Dichlorobenzene	1.458	1.606	-	-10.2	20	90	0
1,4-Dichlorobenzene	1.503	1.625	-	-8.1	20	88	0
p-Diethylbenzene	1.675	1.908	-	-13.9	20	92	0
n-Butylbenzene	2.43	2.759	-	-13.5	20	90	0
1,2-Dichlorobenzene	1.372	1.466	-	-6.9	20	86	0
1,2,4,5-Tetramethylbenzene	2.818	3.049	-	-8.2	20	88	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: CHA Companies	**Lab Number**	: L1849060		
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000		
Instrument ID	: VOA111	**Calibration Date**	: 12/06/18 14:37		
Lab File ID	: V11181206N01	**Init. Calib. Date(s)**	: 11/15/18	11/16/18	
Sample No	: WG1186672-2	**Init. Calib. Times**	: 21:43	01:11	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dibromo-3-chloropropan	20	18.294	-	8.5	20	80	0
1,3,5-Trichlorobenzene	1.07	1.201	-	-12.2	20	91	0
Hexachlorobutadiene	0.452	0.524	-	-15.9	20	89	0
1,2,4-Trichlorobenzene	0.942	1.011	-	-7.3	20	87	0
Naphthalene	2.25	2.098	-	6.8	20	78	0
1,2,3-Trichlorobenzene	0.892	0.891	-	0.1	20	83	0

*** Value outside of QC limits.**

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA104\2018\181206A\
Data File : V04181206A01.D
Acq On : 6 Dec 2018 6:44 am
Operator : VOA104:MV
Sample : WG1186463-2
Misc : WG1186463,ICAL15180
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 06 07:17:31 2018
Quant Method : I:\VOLATILES\VOA104\2018\181206A\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 30 09:42:37 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.05min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	96	0.00
2	TP	Dichlorodifluoromethane	0.230	0.221	3.9	84	0.00
3	TP	Chloromethane	0.469	0.379	19.2	74	0.00
4	TC	Vinyl chloride	0.342	0.328	4.1	86	0.00
5	TP	Bromomethane	* 20.000	24.385	-21.9#	99	0.00
6	TP	Chloroethane	0.154	0.153	0.6	95	0.00
7	TP	Trichlorofluoromethane	0.254	0.281	-10.6	96	0.00
8	TP	Ethyl ether	0.092	0.101	-9.8	98	0.00
10	TC	1,1-Dichloroethene	0.162	0.176	-8.6	99	0.00
11	TP	Carbon disulfide	0.551	0.505	8.3	88	0.00
12	TP	Freon-113	0.176	0.186	-5.7	92	0.00
14	TP	Acrolein	0.050	0.044#	12.0	78	0.00
15	TP	Methylene chloride	0.300	0.275	8.3	87	0.00
17	TP	Acetone	0.089	0.081#	9.0	85	0.00
18	TP	trans-1,2-Dichloroethene	0.262	0.268	-2.3	90	0.00
19	TP	Methyl acetate	0.248	0.235	5.2	87	0.00
20	TP	Methyl tert-butyl ether	0.690	0.669	3.0	87	0.00
21	TP	tert-Butyl alcohol	0.042	0.046#	-9.5	95	-0.01
22	TP	Diisopropyl ether	1.236	1.267	-2.5	91	0.00
23	TP	1,1-Dichloroethane	0.653	0.655	-0.3	89	0.00
24	TP	Halothane	0.197	0.215	-9.1	95	0.00
25	TP	Acrylonitrile	0.120	0.121	-0.8	86	0.00
26	TP	Ethyl tert-butyl ether	1.167	1.202	-3.0	91	0.00
27	TP	Vinyl acetate	0.617	0.622	-0.8	84	0.00
28	TP	cis-1,2-Dichloroethene	0.292	0.303	-3.8	91	0.00
29	TP	2,2-Dichloropropane	0.365	0.386	-5.8	95	0.00
30	TP	Bromochloromethane	0.140	0.142	-1.4	88	0.00
31	TP	Cyclohexane	0.634	0.670	-5.7	93	0.00
32	TC	Chloroform	0.475	0.480	-1.1	92	0.00
33	TP	Ethyl acetate	0.306	0.331	-8.2	90	0.00
34	TP	Carbon tetrachloride	0.326	0.333	-2.1	91	0.00
35	TP	Tetrahydrofuran	0.099	0.103	-4.0	90	0.00
36	S	Dibromofluoromethane	0.255	0.285	-11.8	108	0.00
37	TP	1,1,1-Trichloroethane	0.383	0.395	-3.1	91	0.00
39	TP	2-Butanone	0.151	0.143	5.3	78	0.00
40	TP	1,1-Dichloropropene	0.322	0.340	-5.6	92	0.00
41	TP	Benzene	1.043	1.050	-0.7	91	0.00
42	TP	tert-Amyl methyl ether	0.713	0.745	-4.5	93	0.00
43	S	1,2-Dichloroethane-d4	0.289	0.306	-5.9	102	0.00

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA104\2018\181206A\
Data File : V04181206A01.D
Acq On : 6 Dec 2018 6:44 am
Operator : VOA104:MV
Sample : WG1186463-2
Misc : WG1186463,ICAL15180
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 06 07:17:31 2018
Quant Method : I:\VOLATILES\VOA104\2018\181206A\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 30 09:42:37 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.05min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44	TP	1,2-Dichloroethane	0.414	0.406	1.9	87	0.00
47	TP	Methyl cyclohexane	0.396	0.436	-10.1	97	0.00
48	TP	Trichloroethene	0.277	0.286	-3.2	90	0.00
50	TP	Dibromomethane	0.160	0.161	-0.6	87	0.00
51	TC	1,2-Dichloropropane	0.393	0.391	0.5	89	0.00
53	TP	2-Chloroethyl vinyl ether	0.204	0.197	3.4	89	0.00
54	TP	Bromodichloromethane	0.354	0.360	-1.7	88	0.00
57	TP	1,4-Dioxane	*1000.000	863.426	13.7	76	0.00
58	TP	cis-1,3-Dichloropropene	0.404	0.434	-7.4	91	0.00
59	I	Chlorobenzene-d5	1.000	1.000	0.0	101	0.00
60	S	Toluene-d8	1.326	1.435	-8.2	110	0.00
61	TC	Toluene	0.892	0.884	0.9	93	0.00
62	TP	4-Methyl-2-pentanone	0.199	0.202	-1.5	90	0.00
63	TP	Tetrachloroethene	0.369	0.385	-4.3	94	0.00
65	TP	trans-1,3-Dichloropropene	* 20.000	19.020	4.9	91	0.00
67	TP	Ethyl methacrylate	0.436	0.420	3.7	90	0.00
68	TP	1,1,2-Trichloroethane	0.273	0.269	1.5	89	0.00
69	TP	Chlorodibromomethane	0.396	0.384	3.0	90	0.00
70	TP	1,3-Dichloropropane	0.518	0.508	1.9	90	0.00
71	TP	1,2-Dibromoethane	0.332	0.317	4.5	89	0.00
72	TP	2-Hexanone	0.312	0.310	0.6	94	0.00
73	TP	Chlorobenzene	1.029	1.016	1.3	93	0.00
74	TC	Ethylbenzene	1.704	1.716	-0.7	94	0.00
75	TP	1,1,1,2-Tetrachloroethane	0.368	0.372	-1.1	92	0.00
76	TP	p/m Xylene	0.641	0.664	-3.6	94	0.00
77	TP	o Xylene	0.631	0.647	-2.5	94	0.00
78	TP	Styrene	1.031	1.071	-3.9	94	0.00
79	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	101	0.00
80	TP	Bromoform	0.488	0.477	2.3	90	0.00
82	TP	Isopropylbenzene	3.337	3.357	-0.6	96	0.00
83	S	4-Bromofluorobenzene	0.965	1.057	-9.5	112	0.00
84	TP	Bromobenzene	0.866	0.863	0.3	93	0.00
85	TP	n-Propylbenzene	3.933	3.959	-0.7	95	0.00
86	TP	1,4-Dichlorobutane	1.660	1.611	3.0	91	0.00
87	TP	1,1,2,2-Tetrachloroethane	0.840	0.878	-4.5	96	0.00
88	TP	4-Ethyltoluene	3.218	3.401	-5.7	100	0.00
89	TP	2-Chlorotoluene	2.408	2.354	2.2	95	0.00

Data Path : I:\VOLATILES\VOA104\2018\181206A\
Data File : V04181206A01.D
Acq On : 6 Dec 2018 6:44 am
Operator : VOA104:MV
Sample : WG1186463-2
Misc : WG1186463,ICAL15180
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 06 07:17:31 2018
Quant Method : I:\VOLATILES\VOA104\2018\181206A\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 30 09:42:37 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.05min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
90 TP	1,3,5-Trimethylbenzene	2.859	2.883	-0.8	97	0.00
91 TP	1,2,3-Trichloropropane	0.640	0.630	1.6	92	0.00
92 TP	trans-1,4-Dichloro-2-butene	0.290	0.289	0.3	93	0.00
93 TP	4-Chlorotoluene	2.415	2.418	-0.1	93	0.00
94 TP	tert-Butylbenzene	2.341	2.357	-0.7	96	0.00
97 TP	1,2,4-Trimethylbenzene	2.829	2.852	-0.8	96	0.00
98 TP	sec-Butylbenzene	3.613	3.659	-1.3	96	0.00
99 TP	p-Isopropyltoluene	3.000	3.073	-2.4	97	0.00
100 TP	1,3-Dichlorobenzene	1.602	1.623	-1.3	95	0.00
101 TP	1,4-Dichlorobenzene	1.693	1.706	-0.8	99	0.00
102 TP	p-Diethylbenzene	1.741	1.884	-8.2	102	0.00
103 TP	n-Butylbenzene	2.791	2.851	-2.1	96	0.00
104 TP	1,2-Dichlorobenzene	1.537	1.554	-1.1	95	0.00
105 TP	1,2,4,5-Tetramethylbenzene	2.808	3.044	-8.4	102	0.00
106 TP	1,2-Dibromo-3-chloropropane *	20.000	18.764	6.2	91	0.00
107 TP	1,3,5-Trichlorobenzene	1.103	1.221	-10.7	103	0.00
108 TP	Hexachlorobutadiene	0.501	0.524	-4.6	100	0.00
109 TP	1,2,4-Trichlorobenzene	1.041	1.098	-5.5	97	0.00
110 TP	Naphthalene	2.625	2.586	1.5	91	0.00
111 TP	1,2,3-Trichlorobenzene	0.997	0.998	-0.1	93	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 3 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2018\181206A\
Data File : V04181206A01.D
Acq On : 6 Dec 2018 6:44 am
Operator : VOA104:MV
Sample : WG1186463-2
Misc : WG1186463,ICAL15180
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 06 07:17:31 2018
Quant Method : I:\VOLATILES\VOA104\2018\181206A\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 30 09:42:37 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2018\181206A\V04181206A01.D
Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.870	96	131170	20.000	ug/L	0.00
Standard Area 1 = 131170			Recovery = 100.00%			
59) Chlorobenzene-d5	9.388	117	100348	20.000	ug/L	0.00
Standard Area 1 = 100348			Recovery = 100.00%			
79) 1,4-Dichlorobenzene-d4	12.115	152	50893	20.000	ug/L	0.00
Standard Area 1 = 50893			Recovery = 100.00%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.078	113	37426	22.412	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 112.06%			
43) 1,2-Dichloroethane-d4	5.597	65	40143	21.200	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 106.00%			
60) Toluene-d8	7.543	98	143991	21.636	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 108.18%			
83) 4-Bromofluorobenzene	10.898	95	53791	21.917	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 109.58%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.613	85	28928	19.185	ug/L	97
3) Chloromethane	1.791	50	49734	16.156	ug/L	98
4) Vinyl chloride	1.859	62	43089	19.227	ug/L	98
5) Bromomethane	2.158	94	22526	24.385	ug/L	99
6) Chloroethane	2.273	64	20087	19.897	ug/L	94
7) Trichlorofluoromethane	2.404	101	36854	22.161	ug/L	100
8) Ethyl ether	2.693	74	13204	21.770	ug/L #	61
10) 1,1-Dichloroethene	2.871	96	23028	21.739	ug/L #	62
11) Carbon disulfide	2.897	76	66241	18.338	ug/L	100
12) Freon-113	2.903	101	24359	21.112	ug/L	95
14) Acrolein	3.201	56	5732	17.310	ug/L	98
15) Methylene chloride	3.411	84	36113	18.365	ug/L	74
17) Acetone	3.474	43	10595	18.242	ug/L #	84
18) trans-1,2-Dichloroethene	3.558	96	35133	20.446	ug/L	79
19) Methyl acetate	3.579	43	30777	18.936	ug/L	93
20) Methyl tert-butyl ether	3.658	73	87718	19.379	ug/L #	87
21) tert-Butyl alcohol	3.773	59	30012	109.571	ug/L	95
22) Diisopropyl ether	4.004	45	166183	20.502	ug/L	93
23) 1,1-Dichloroethane	4.129	63	85904	20.049	ug/L	96
24) Halothane	4.187	117	28257	21.852	ug/L	99
25) Acrylonitrile	4.198	53	15904	20.184	ug/L	94

Data Path : I:\VOLATILES\VOA104\2018\181206A\
Data File : V04181206A01.D
Acq On : 6 Dec 2018 6:44 am
Operator : VOA104:MV
Sample : WG1186463-2
Misc : WG1186463,ICAL15180
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 06 07:17:31 2018
Quant Method : I:\VOLATILES\VOA104\2018\181206A\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 30 09:42:37 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2018\181206A\V04181206A01.D
Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
26) Ethyl tert-butyl ether	4.339	59	157649	20.589	ug/L		90
27) Vinyl acetate	4.365	43	81596	20.149	ug/L		97
28) cis-1,2-Dichloroethene	4.643	96	39739	20.753	ug/L	#	81
29) 2,2-Dichloropropane	4.732	77	50620	21.119	ug/L		94
30) Bromochloromethane	4.832	128	18571	20.238	ug/L	#	72
31) Cyclohexane	4.816	56	87920	21.129	ug/L		73
32) Chloroform	4.905	83	62984	20.231	ug/L		97
33) Ethyl acetate	5.016	43	43421	21.607	ug/L	#	95
34) Carbon tetrachloride	5.021	117	43732	20.462	ug/L		99
35) Tetrahydrofuran	5.063	42	13562	20.859	ug/L	#	86
37) 1,1,1-Trichloroethane	5.089	97	51777	20.589	ug/L		94
39) 2-Butanone	5.210	43	18730	18.930	ug/L	#	88
40) 1,1-Dichloropropene	5.210	75	44641	21.133	ug/L		98
41) Benzene	5.456	78	137698	20.133	ug/L	#	92
42) tert-Amyl methyl ether	5.561	73	97660	20.874	ug/L		92
44) 1,2-Dichloroethane	5.666	62	53206	19.585	ug/L		99
47) Methyl cyclohexane	6.017	83	57178	22.002	ug/L	#	62
48) Trichloroethene	6.043	95	37478	20.607	ug/L		99
50) Dibromomethane	6.494	93	21155	20.159	ug/L		96
51) 1,2-Dichloropropane	6.588	63	51307	19.901	ug/L	#	92
53) 2-Chloroethyl vinyl ether	7.286	63	25893	19.313	ug/L	#	95
54) Bromodichloromethane	6.667	83	47188	20.341	ug/L		91
57) 1,4-Dioxane	6.882	88	15085	863.426	ug/L	#	72
58) cis-1,3-Dichloropropene	7.349	75	56906	21.488	ug/L		95
61) Toluene	7.600	92	88664	19.801	ug/L		100
62) 4-Methyl-2-pentanone	8.046	58	20229	20.270	ug/L	#	83
63) Tetrachloroethene	8.046	166	38643	20.896	ug/L		98
65) trans-1,3-Dichloropropene	8.098	75	48519	19.020	ug/L		97
67) Ethyl methacrylate	8.282	69	42176	19.293	ug/L		98
68) 1,1,2-Trichloroethane	8.282	83	26946	19.706	ug/L		99
69) Chlorodibromomethane	8.492	129	38492	19.385	ug/L		99
70) 1,3-Dichloropropane	8.602	76	50969	19.612	ug/L		100
71) 1,2-Dibromoethane	8.764	107	31823	19.084	ug/L		99
72) 2-Hexanone	9.058	43	31092	19.842	ug/L	#	88
73) Chlorobenzene	9.404	112	101949	19.738	ug/L		98
74) Ethylbenzene	9.435	91	172157	20.141	ug/L		99
75) 1,1,1,2-Tetrachloroethane	9.488	131	37283	20.167	ug/L		97
76) p/m Xylene	9.624	106	133298	41.460	ug/L		98
77) o Xylene	10.169	106	129811	40.990	ug/L		98
78) Styrene	10.243	104	214885	41.538	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2018\181206A\
Data File : V04181206A01.D
Acq On : 6 Dec 2018 6:44 am
Operator : VOA104:MV
Sample : WG1186463-2
Misc : WG1186463,ICAL15180
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 06 07:17:31 2018
Quant Method : I:\VOLATILES\VOA104\2018\181206A\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 30 09:42:37 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2018\181206A\V04181206A01.D
Sub List : 8260-CurveSoil - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
80)	Bromoform	10.280	173	24281	19.546	ug/L		100
82)	Isopropylbenzene	10.557	105	170835	20.121	ug/L		100
84)	Bromobenzene	11.008	156	43934	19.946	ug/L		97
85)	n-Propylbenzene	11.045	91	201460	20.130	ug/L		98
86)	1,4-Dichlorobutane	11.076	55	81993	19.408	ug/L	#	91
87)	1,1,2,2-Tetrachloroethane	11.155	83	44708	20.914	ug/L		99
88)	4-Ethyltoluene	11.176	105	173102	21.140	ug/L		100
89)	2-Chlorotoluene	11.218	91	119815	19.554	ug/L		100
90)	1,3,5-Trimethylbenzene	11.270	105	146715	20.164	ug/L		100
91)	1,2,3-Trichloropropane	11.291	75	32049	19.669	ug/L		98
92)	trans-1,4-Dichloro-2-b...	11.344	53	14690	19.916	ug/L	#	85
93)	4-Chlorotoluene	11.407	91	123040	20.021	ug/L		99
94)	tert-Butylbenzene	11.617	119	119956	20.138	ug/L		99
97)	1,2,4-Trimethylbenzene	11.695	105	145137	20.163	ug/L		99
98)	sec-Butylbenzene	11.805	105	186214	20.255	ug/L		97
99)	p-Isopropyltoluene	11.963	119	156398	20.486	ug/L		98
100)	1,3-Dichlorobenzene	12.036	146	82578	20.255	ug/L		99
101)	1,4-Dichlorobenzene	12.130	146	86826	20.151	ug/L		99
102)	p-Diethylbenzene	12.340	119	95859	21.634	ug/L		99
103)	n-Butylbenzene	12.398	91	145099	20.430	ug/L		99
104)	1,2-Dichlorobenzene	12.560	146	79103	20.219	ug/L		99
105)	1,2,4,5-Tetramethylben...	13.137	119	154917	21.684	ug/L		98
106)	1,2-Dibromo-3-chloropr...	13.347	155	6677	18.764	ug/L		97
107)	1,3,5-Trichlorobenzene	13.368	180	62122	22.138	ug/L		99
108)	Hexachlorobutadiene	13.939	225	26685	20.927	ug/L		98
109)	1,2,4-Trichlorobenzene	13.971	180	55902	21.100	ug/L		99
110)	Naphthalene	14.264	128	131631	19.710	ug/L		100
111)	1,2,3-Trichlorobenzene	14.432	180	50811	20.025	ug/L		99

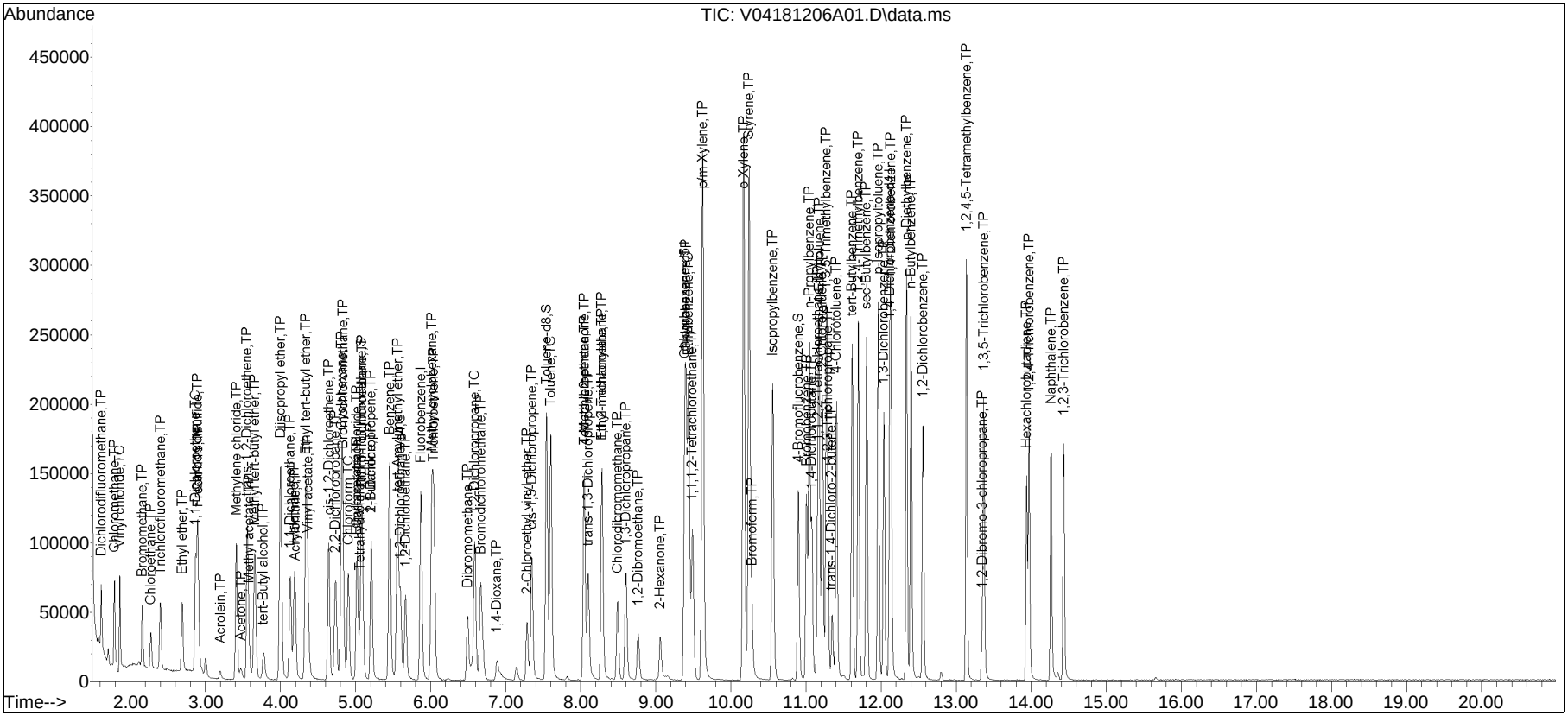
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2018\181206A\
Data File : V04181206A01.D
Acq On : 6 Dec 2018 6:44 am
Operator : VOA104:MV
Sample : WG1186463-2
Misc : WG1186463,ICAL15180
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 06 07:17:31 2018
Quant Method : I:\VOLATILES\VOA104\2018\181206A\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 30 09:42:37 2018
Response via : Initial Calibration

Sub List : 8260-CurveSoil - Megamix plus Diox6A\V04181206A01.D•



Manual Integration Report

Data Path	: I:\VOLATILES\VOA104\2018\1	QMethod	: V104_181029N_8260.m
Data File	: V04181206A01.D	Operator	: VOA104:MV
Date Inj'd	: 12/6/2018 6:44 am	Instrument	: VOA 104
Sample	: WG1186463-2	Quant Date	: 12/6/2018 7:17 am

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : I:\VOLATILES\VOA111\2018\181206N\
Data File : V11181206N01.D
Acq On : 06 Dec 2018 14:37
Operator : VOA111:MKS
Sample : WG1186672-2
Misc : WG1186672,ICAL15260
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 06 15:05:50 2018
Quant Method : I:\VOLATILES\VOA111\2018\181206N\V111_181115N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 19 17:40:28 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	93	0.00
2	TP	Dichlorodifluoromethane	0.184	0.202	-9.8	98	0.00
3	TP	Chloromethane	0.255	0.230	9.8	85	-0.01
4	TC	Vinyl chloride	0.179	0.199	-11.2	99	0.00
5	TP	Bromomethane	* 20.000	22.084	-10.4	89	0.00
6	TP	Chloroethane	0.121	0.130	-7.4	97	0.00
7	TP	Trichlorofluoromethane	0.365	0.413	-13.2	98	0.00
8	TP	Ethyl ether	0.121	0.111	8.3	84	0.00
10	TP	1,1-Dichloroethene	0.181	0.201	-11.0	99	0.00
11	TP	Carbon disulfide	0.562	0.535	4.8	92	0.00
12	TP	Freon-113	0.195	0.217	-11.3	101	0.00
14	TP	Acrolein	0.032	0.024#	25.0#	75	0.00
15	TP	Methylene chloride	0.248	0.241	2.8	96	-0.01
17	TP	Acetone	0.071	0.057#	19.7	74	0.00
18	TP	trans-1,2-Dichloroethene	0.230	0.246	-7.0	100	0.00
19	TP	Methyl acetate	0.198	0.148	25.3#	69	0.00
20	TP	Methyl tert-butyl ether	0.743	0.680	8.5	86	-0.01
21	TP	tert-Butyl alcohol	0.032	0.027#	15.6	79	-0.02
22	TP	Diisopropyl ether	1.146	0.910	20.6#	75	0.00
23	TC	1,1-Dichloroethane	0.506	0.476	5.9	90	-0.01
24	TP	Halothane	0.180	0.192	-6.7	98	-0.01
25	TP	Acrylonitrile	0.092	0.062	32.6#	65	-0.01
26	TP	Ethyl tert-butyl ether	1.036	0.909	12.3	83	-0.01
27	TP	Vinyl acetate	0.634	0.494	22.1#	72	-0.01
28	TP	cis-1,2-Dichloroethene	0.276	0.276	0.0	94	-0.01
29	TP	2,2-Dichloropropane	0.433	0.471	-8.8	101	0.00
30	TP	Bromochloromethane	0.135	0.136	-0.7	91	-0.01
31	TP	Cyclohexane	0.455	0.414	9.0	82	-0.01
32	TC	Chloroform	0.508	0.513	-1.0	95	-0.01
33	TP	Ethyl acetate	0.278	0.208	25.2#	67	-0.01
34	TP	Carbon tetrachloride	0.380	0.445	-17.1	99	0.00
35	TP	Tetrahydrofuran	0.092	0.065	29.3#	60	0.00
36	S	Dibromofluoromethane	0.267	0.270	-1.1	92	0.00
37	TP	1,1,1-Trichloroethane	0.452	0.508	-12.4	100	0.00
39	TP	2-Butanone	0.119	0.087#	26.9#	64	-0.01
40	TP	1,1-Dichloropropene	0.303	0.325	-7.3	97	0.00
41	TP	Benzene	0.952	0.933	2.0	92	-0.01
42	TP	tert-Amyl methyl ether	0.783	0.694	11.4	85	0.00
43	S	1,2-Dichloroethane-d4	0.330	0.321	2.7	89	-0.01

Data Path : I:\VOLATILES\VOA111\2018\181206N\
Data File : V11181206N01.D
Acq On : 06 Dec 2018 14:37
Operator : VOA111:MKS
Sample : WG1186672-2
Misc : WG1186672,ICAL15260
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 06 15:05:50 2018
Quant Method : I:\VOLATILES\VOA111\2018\181206N\V111_181115N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 19 17:40:28 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
44	TP	1,2-Dichloroethane	0.462	0.420	9.1	85	-0.01
47	TP	Methyl cyclohexane	0.363	0.389	-7.2	94	-0.01
48	TP	Trichloroethene	0.265	0.275	-3.8	96	-0.01
50	TP	Dibromomethane	0.154	0.145	5.8	85	-0.01
51	TC	1,2-Dichloropropane	0.281	0.252	10.3	81	0.00
53	TP	2-Chloroethyl vinyl ether	0.109	0.073	33.0#	55	-0.01
54	TP	Bromodichloromethane	0.407	0.390	4.2	87	-0.01
57	TP	1,4-Dioxane	*1000.000	905.042	9.5	86	0.00
58	TP	cis-1,3-Dichloropropene	0.434	0.419	3.5	88	-0.01
59	I	Chlorobenzene-d5	1.000	1.000	0.0	86	-0.01
60	S	Toluene-d8	1.196	1.243	-3.9	89	0.00
61	TC	Toluene	0.761	0.822	-8.0	96	-0.01
62	TP	4-Methyl-2-pentanone	0.123	0.094#	23.6#	69	-0.01
63	TP	Tetrachloroethene	0.316	0.372	-17.7	98	-0.01
65	TP	trans-1,3-Dichloropropene	0.489	0.485	0.8	84	0.00
67	TP	Ethyl methacrylate	0.364	0.303	16.8	77	-0.01
68	TP	1,1,2-Trichloroethane	0.212	0.198	6.6	82	-0.01
69	TP	Chlorodibromomethane	0.367	0.366	0.3	86	0.00
70	TP	1,3-Dichloropropane	0.450	0.427	5.1	85	-0.01
71	TP	1,2-Dibromoethane	0.266	0.262	1.5	83	-0.01
72	TP	2-Hexanone	* 20.000	14.449	27.8#	63	0.00
73	TP	Chlorobenzene	0.925	0.956	-3.4	93	-0.01
74	TC	Ethylbenzene	1.497	1.609	-7.5	94	-0.01
75	TP	1,1,1,2-Tetrachloroethane	0.362	0.398	-9.9	95	-0.01
76	TP	p/m Xylene	0.592	0.641	-8.3	94	-0.01
77	TP	o Xylene	0.592	0.620	-4.7	91	0.00
78	TP	Styrene	0.984	1.016	-3.3	88	0.00
79	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	80	0.00
80	TP	Bromoform	0.400	0.428	-7.0	86	-0.01
82	TP	Isopropylbenzene	2.794	3.231	-15.6	94	-0.01
83	S	4-Bromofluorobenzene	0.928	0.934	-0.6	81	0.00
84	TP	Bromobenzene	0.735	0.804	-9.4	89	0.00
85	TP	n-Propylbenzene	3.243	3.617	-11.5	90	0.00
86	TP	1,4-Dichlorobutane	1.142	1.009	11.6	71	0.00
87	TP	1,1,2,2-Tetrachloroethane	0.600	0.565	5.8	77	-0.01
88	TP	4-Ethyltoluene	2.870	3.299	-14.9	93	0.00
89	TP	2-Chlorotoluene	2.391	2.664	-11.4	92	0.00

Data Path : I:\VOLATILES\VOA111\2018\181206N\
Data File : V11181206N01.D
Acq On : 06 Dec 2018 14:37
Operator : VOA111:MKS
Sample : WG1186672-2
Misc : WG1186672,ICAL15260
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 06 15:05:50 2018
Quant Method : I:\VOLATILES\VOA111\2018\181206N\V111_181115N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 19 17:40:28 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
90 TP	1,3,5-Trimethylbenzene	2.504	2.838	-13.3	93	0.00
91 TP	1,2,3-Trichloropropane	0.514	0.475	7.6	74	0.00
92 TP	trans-1,4-Dichloro-2-butene	0.233	0.202	13.3	73	0.00
93 TP	4-Chlorotoluene	2.155	2.354	-9.2	88	0.00
94 TP	tert-Butylbenzene	2.103	2.429	-15.5	93	0.00
97 TP	1,2,4-Trimethylbenzene	2.522	2.852	-13.1	92	0.00
98 TP	sec-Butylbenzene	3.026	3.471	-14.7	91	0.00
99 TP	p-Isopropyltoluene	2.710	3.145	-16.1	92	0.00
100 TP	1,3-Dichlorobenzene	1.458	1.606	-10.2	90	0.00
101 TP	1,4-Dichlorobenzene	1.503	1.625	-8.1	88	0.00
102 TP	p-Diethylbenzene	1.675	1.908	-13.9	92	0.00
103 TP	n-Butylbenzene	2.430	2.759	-13.5	90	0.00
104 TP	1,2-Dichlorobenzene	1.372	1.466	-6.9	86	0.00
105 TP	1,2,4,5-Tetramethylbenzene	2.818	3.049	-8.2	88	0.00
106 TP	1,2-Dibromo-3-chloropropane *	20.000	18.294	8.5	80	0.00
107 TP	1,3,5-Trichlorobenzene	1.070	1.201	-12.2	91	0.00
108 TP	Hexachlorobutadiene	0.452	0.524	-15.9	89	0.00
109 TP	1,2,4-Trichlorobenzene	0.942	1.011	-7.3	87	0.00
110 TP	Naphthalene	2.250	2.098	6.8	78	0.00
111 TP	1,2,3-Trichlorobenzene	0.892	0.891	0.1	83	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 5 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2018\181206N\
Data File : V11181206N01.D
Acq On : 06 Dec 2018 14:37
Operator : VOA111:MKS
Sample : WG1186672-2
Misc : WG1186672,ICAL15260
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 06 15:05:50 2018
Quant Method : I:\VOLATILES\VOA111\2018\181206N\V111_181115N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 19 17:40:28 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2018\181206N\V11181206N01.D
Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.543	96	82887	20.000	ug/L	0.00
Standard Area 1 = 82887			Recovery = 100.00%			
59) Chlorobenzene-d5	9.009	117	66465	20.000	ug/L	-0.01
Standard Area 1 = 66465			Recovery = 100.00%			
79) 1,4-Dichlorobenzene-d4	11.825	152	34331	20.000	ug/L	0.00
Standard Area 1 = 34331			Recovery = 100.00%			
System Monitoring Compounds						
36) Dibromofluoromethane	4.762	113	22395	20.211	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 101.05%			
43) 1,2-Dichloroethane-d4	5.265	65	26646	19.498	ug/L	-0.01
Spiked Amount 20.000	Range 70 - 130		Recovery = 97.49%			
60) Toluene-d8	7.200	98	82589	20.785	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 103.93%			
83) 4-Bromofluorobenzene	10.556	95	32080	20.137	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 100.69%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.527	85	16758	22.021	ug/L	95
3) Chloromethane	1.695	50	19080	18.074	ug/L	100
4) Vinyl chloride	1.747	62	16455	22.171	ug/L	99
5) Bromomethane	2.015	94	14192	22.084	ug/L	99
6) Chloroethane	2.114	64	10797	21.481	ug/L	99
7) Trichlorofluoromethane	2.235	101	34205	22.598	ug/L	100
8) Ethyl ether	2.502	74	9167	18.290	ug/L	86
10) 1,1-Dichloroethene	2.670	96	16648	22.182	ug/L	95
11) Carbon disulfide	2.696	76	44318	19.022	ug/L	99
12) Freon-113	2.707	101	17992	22.296	ug/L	94
14) Acrolein	2.953	56	1957	14.637	ug/L	96
15) Methylene chloride	3.168	84	19965	19.392	ug/L	81
17) Acetone	3.210	43	4712	15.940	ug/L	96
18) trans-1,2-Dichloroethene	3.315	96	20397	21.440	ug/L	94
19) Methyl acetate	3.320	43	12241	14.925	ug/L #	90
20) Methyl tert-butyl ether	3.399	73	56325	18.280	ug/L	88
21) tert-Butyl alcohol	3.483	59	11358	84.428	ug/L	90
22) Diisopropyl ether	3.740	45	75389	15.869	ug/L #	95
23) 1,1-Dichloroethane	3.850	63	39485	18.822	ug/L	95
24) Halothane	3.902	117	15922	21.313	ug/L	95
25) Acrylonitrile	3.892	53	5159	13.469	ug/L #	87

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2018\181206N\
Data File : V11181206N01.D
Acq On : 06 Dec 2018 14:37
Operator : VOA111:MKS
Sample : WG1186672-2
Misc : WG1186672,ICAL15260
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 06 15:05:50 2018
Quant Method : I:\VOLATILES\VOA111\2018\181206N\V111_181115N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 19 17:40:28 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2018\181206N\V11181206N01.D
Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
26) Ethyl tert-butyl ether	4.065	59	75381	17.554	ug/L		84
27) Vinyl acetate	4.075	43	40907	15.571	ug/L	#	95
28) cis-1,2-Dichloroethene	4.337	96	22872	20.019	ug/L		92
29) 2,2-Dichloropropane	4.437	77	39056	21.748	ug/L		87
30) Bromochloromethane	4.521	128	11253	20.144	ug/L	#	68
31) Cyclohexane	4.526	56	34346	18.233	ug/L		85
32) Chloroform	4.594	83	42546	20.228	ug/L		96
33) Ethyl acetate	4.704	43	17257	14.973	ug/L	#	98
34) Carbon tetrachloride	4.720	117	36898	23.446	ug/L		99
35) Tetrahydrofuran	4.741	42	5410	14.170	ug/L	#	89
37) 1,1,1-Trichloroethane	4.783	97	42125	22.464	ug/L		95
39) 2-Butanone	4.877	43	7229	14.676	ug/L	#	87
40) 1,1-Dichloropropene	4.904	75	26950	21.431	ug/L		98
41) Benzene	5.134	78	77337	19.592	ug/L		96
42) tert-Amyl methyl ether	5.250	73	57504	17.721	ug/L		94
44) 1,2-Dichloroethane	5.328	62	34807	18.175	ug/L		99
47) Methyl cyclohexane	5.706	83	32247	21.462	ug/L		87
48) Trichloroethene	5.716	95	22771	20.698	ug/L		97
50) Dibromomethane	6.141	93	11978	18.707	ug/L		95
51) 1,2-Dichloropropane	6.241	63	20853	17.878	ug/L	#	90
53) 2-Chloroethyl vinyl ether	6.933	63	6023	13.335	ug/L	#	91
54) Bromodichloromethane	6.314	83	32325	19.151	ug/L		97
57) 1,4-Dioxane	6.524	88	9627	905.042	ug/L	#	84
58) cis-1,3-Dichloropropene	6.990	75	34767	19.322	ug/L		94
61) Toluene	7.253	92	54652	21.621	ug/L		96
62) 4-Methyl-2-pentanone	7.688	58	6247	15.288	ug/L	#	76
63) Tetrachloroethene	7.693	166	24720	23.543	ug/L		98
65) trans-1,3-Dichloropropene	7.735	75	32231	19.823	ug/L		84
67) Ethyl methacrylate	7.934	69	20133	16.664	ug/L		94
68) 1,1,2-Trichloroethane	7.913	83	13150	18.674	ug/L		95
69) Chlorodibromomethane	8.123	129	24318	19.952	ug/L		97
70) 1,3-Dichloropropane	8.228	76	28387	18.976	ug/L		98
71) 1,2-Dibromoethane	8.380	107	17398	19.647	ug/L		98
72) 2-Hexanone	8.694	43	10596	14.449	ug/L	#	91
73) Chlorobenzene	9.030	112	63531	20.661	ug/L		98
74) Ethylbenzene	9.077	91	106916	21.489	ug/L		99
75) 1,1,1,2-Tetrachloroethane	9.119	131	26460	22.017	ug/L		95
76) p/m Xylene	9.266	106	85204	43.285	ug/L		99
77) o Xylene	9.806	106	82428	41.880	ug/L		99
78) Styrene	9.879	104	135038	41.285	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2018\181206N\
Data File : V11181206N01.D
Acq On : 06 Dec 2018 14:37
Operator : VOA111:MKS
Sample : WG1186672-2
Misc : WG1186672,ICAL15260
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 06 15:05:50 2018
Quant Method : I:\VOLATILES\VOA111\2018\181206N\V111_181115N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 19 17:40:28 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2018\181206N\V11181206N01.D
Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) Bromoform	9.895	173	14684	21.394	ug/L		100
82) Isopropylbenzene	10.220	105	110928	23.127	ug/L		99
84) Bromobenzene	10.671	156	27593	21.878	ug/L		98
85) n-Propylbenzene	10.734	91	124161	22.303	ug/L		97
86) 1,4-Dichlorobutane	10.744	55	34628	17.657	ug/L	#	88
87) 1,1,2,2-Tetrachloroethane	10.823	83	19386	18.831	ug/L		98
88) 4-Ethyltoluene	10.870	105	113247	22.987	ug/L		99
89) 2-Chlorotoluene	10.896	91	91454	22.283	ug/L		100
90) 1,3,5-Trimethylbenzene	10.975	105	97446	22.669	ug/L		99
91) 1,2,3-Trichloropropane	10.965	75	16317	18.498	ug/L		91
92) trans-1,4-Dichloro-2-b...	11.028	53	6945	17.367	ug/L	#	88
93) 4-Chlorotoluene	11.090	91	80811	21.846	ug/L		100
94) tert-Butylbenzene	11.326	119	83397	23.101	ug/L		98
97) 1,2,4-Trimethylbenzene	11.410	105	97899	22.612	ug/L		99
98) sec-Butylbenzene	11.526	105	119165	22.939	ug/L		98
99) p-Isopropyltoluene	11.693	119	107980	23.216	ug/L		98
100) 1,3-Dichlorobenzene	11.746	146	55133	22.032	ug/L		100
101) 1,4-Dichlorobenzene	11.840	146	55799	21.634	ug/L		98
102) p-Diethylbenzene	12.081	119	65491	22.772	ug/L		98
103) n-Butylbenzene	12.139	91	94714	22.703	ug/L		98
104) 1,2-Dichlorobenzene	12.275	146	50320	21.369	ug/L		100
105) 1,2,4,5-Tetramethylben...	12.894	119	104683	21.638	ug/L		99
106) 1,2-Dibromo-3-chloropr...	13.072	155	3471	18.294	ug/L		100
107) 1,3,5-Trichlorobenzene	13.109	180	41224	22.454	ug/L		99
108) Hexachlorobutadiene	13.702	225	17992	23.179	ug/L		96
109) 1,2,4-Trichlorobenzene	13.717	180	34700	21.467	ug/L		98
110) Naphthalene	14.011	128	72037	18.654	ug/L		100
111) 1,2,3-Trichlorobenzene	14.179	180	30603	19.982	ug/L		97

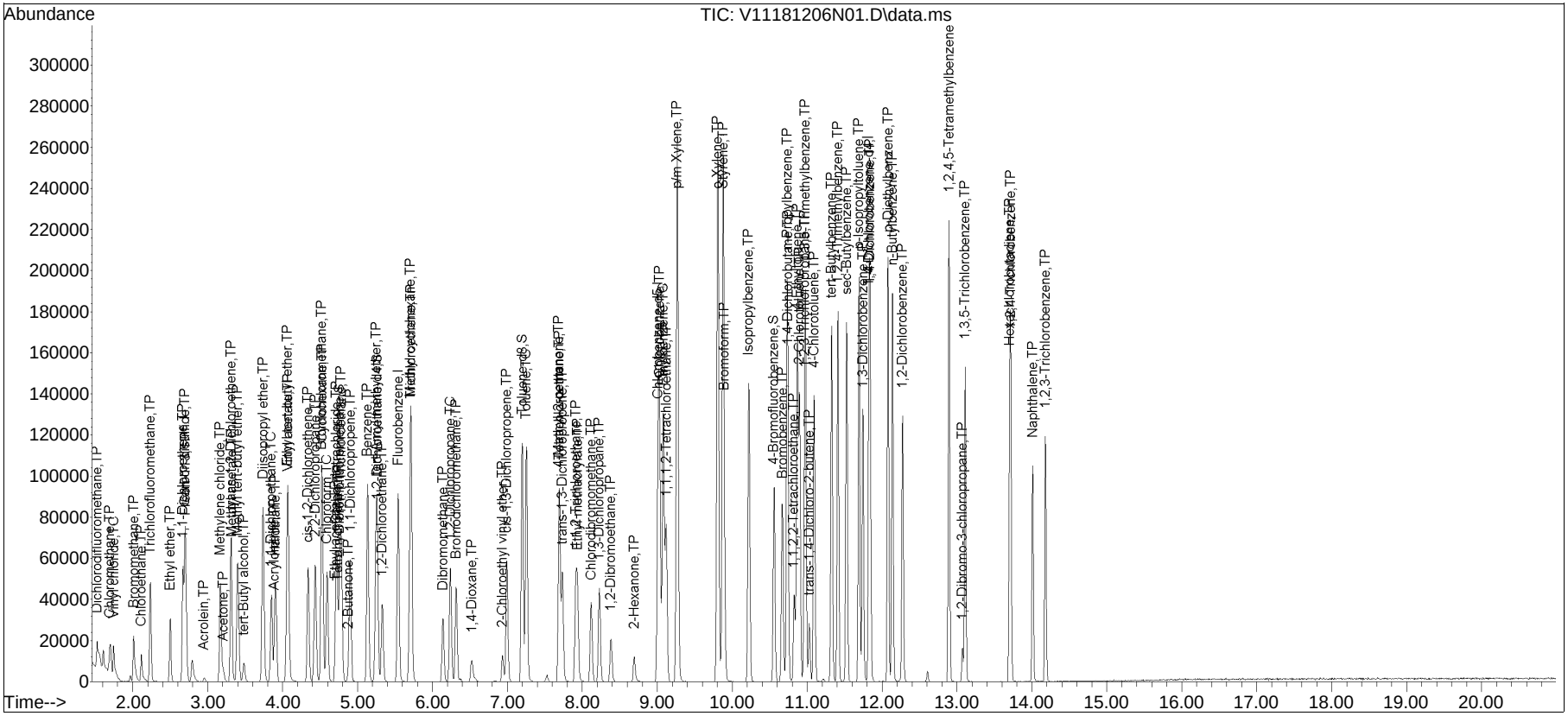
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2018\181206N\
Data File : V11181206N01.D
Acq On : 06 Dec 2018 14:37
Operator : VOA111:MKS
Sample : WG1186672-2
Misc : WG1186672,ICAL15260
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 06 15:05:50 2018
Quant Method : I:\VOLATILES\VOA111\2018\181206N\V111_181115N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 19 17:40:28 2018
Response via : Initial Calibration

Sub List : 8260-CurveSoil - Megamix plus Diox6N\V11181206N01.D•



Manual Integration Report

Data Path	: I:\VOLATILES\VOA111\2018\1	QMethod	: V111_181115N_8260.m
Data File	: V11181206N01.D	Operator	: VOA111:MKS
Date Inj'd	: 12/6/2018 14:37	Instrument	: VOA111
Sample	: WG1186672-2	Quant Date	: 12/6/2018 3:05 pm

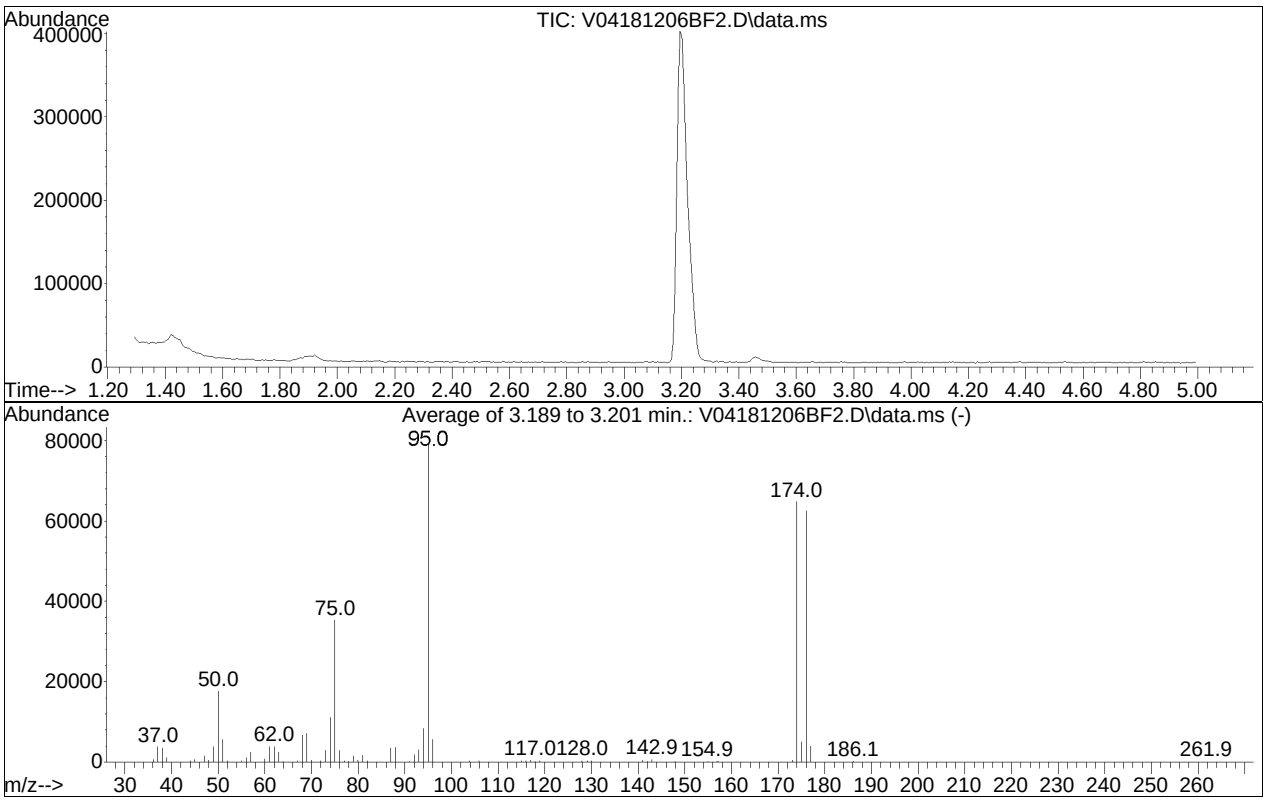
There are no manual integrations or false positives in this file.

BFB

Data Path : I:\VOLATILES\VOA104\2018\181206A\
Data File : V04181206BF2.D
Acq On : 6 Dec 2018 6:22 am
Operator : VOA104:MV
Sample : WG1186463-1
Misc : WG1186463,ICAL15180
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\VOLATILES\VOA104\2018\181206A\V104_181029N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Tue Oct 30 09:42:37 2018



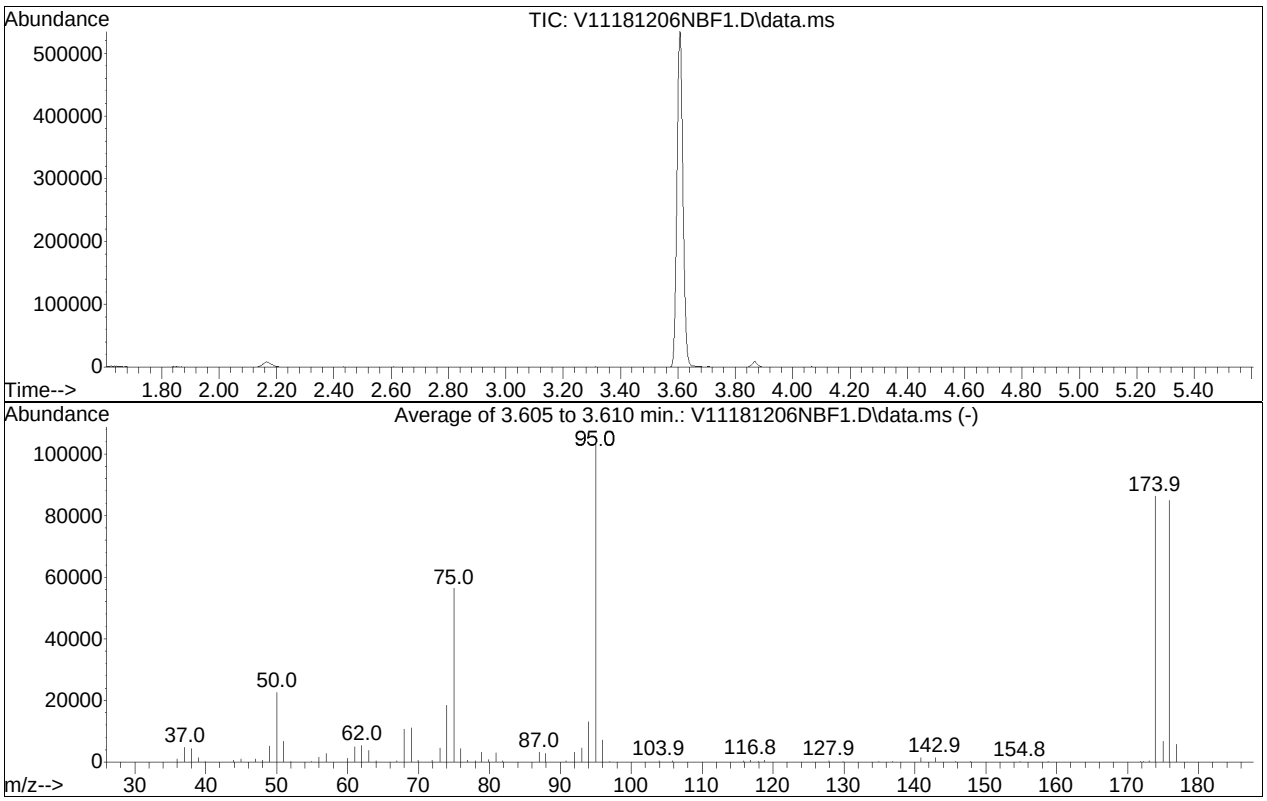
AutoFind: Scans 312, 313, 314; Background Corrected with Scan 305

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.2	17621	PASS
75	95	30	60	44.5	35333	PASS
95	95	100	100	100.0	79477	PASS
96	95	5	9	7.2	5728	PASS
173	174	0.00	2	0.7	453	PASS
174	95	50	100	81.5	64797	PASS
175	174	5	9	7.7	5018	PASS
176	174	95	101	96.5	62512	PASS
177	176	5	9	6.5	4042	PASS

Data Path : I:\VOLATILES\VOA111\2018\181206N\
Data File : V11181206NBF1.D
Acq On : 06 Dec 2018 14:15
Operator : VOA111:MKS
Sample : WG1186672-1
Misc : WG1186672,ICAL15260
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\VOLATILES\VOA111\2018\181206N\V111_181115N_8260.m
Title : VOLATILES BY GC/MS
Last Update : Mon Nov 19 17:40:28 2018



Spectrum Information: Average of 3.605 to 3.610 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.9	22688	PASS
75	95	30	60	54.4	56355	PASS
95	95	100	100	100.0	103667	PASS
96	95	5	9	7.0	7275	PASS
173	174	0.00	2	0.6	487	PASS
174	95	50	100	83.3	86400	PASS
175	174	5	9	7.8	6774	PASS
176	174	95	101	98.3	84936	PASS
177	176	5	9	6.8	5734	PASS

Volatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2018\181206A\
Data File : V04181206A05.D
Acq On : 6 Dec 2018 8:31 am
Operator : VOA104:MV
Sample : WG1186463-5,31,5,5
Misc : WG1186463,ICAL15180
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 06 10:13:16 2018
Quant Method : I:\VOLATILES\VOA104\2018\181206A\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 30 09:42:37 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2018\181206A\V04181206A01.D
Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	5.875	96	129725	20.000 ug/L	0.00
Standard Area 1 = 131170			Recovery = 98.90%		
59) Chlorobenzene-d5	9.388	117	97434	20.000 ug/L	0.00
Standard Area 1 = 100348			Recovery = 97.10%		
79) 1,4-Dichlorobenzene-d4	12.120	152	49415	20.000 ug/L	0.00
Standard Area 1 = 50893			Recovery = 97.10%		
System Monitoring Compounds					
36) Dibromofluoromethane	5.084	113	37159	22.499 ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 112.49%		
43) 1,2-Dichloroethane-d4	5.603	65	41866	22.356 ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 111.78%		
60) Toluene-d8	7.548	98	140462	21.737 ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 108.68%		
83) 4-Bromofluorobenzene	10.903	95	52023	21.830 ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 109.15%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.	
3) Chloromethane	0.000		0	N.D. d	
4) Vinyl chloride	0.000		0	N.D.	
5) Bromomethane	2.168	94	773	Below Cal #	11
6) Chloroethane	2.268	64	83	N.D.	
7) Trichlorofluoromethane	0.000		0	N.D.	
10) 1,1-Dichloroethene	0.000		0	N.D.	
11) Carbon disulfide	2.897	76	1685	0.472 ug/L #	32
12) Freon-113	0.000		0	N.D.	
15) Methylene chloride	3.411	84	1312	0.675 ug/L #	66
17) Acetone	0.000		0	N.D. d	
18) trans-1,2-Dichloroethene	0.000		0	N.D.	
19) Methyl acetate	3.505	43	47	N.D.	
20) Methyl tert-butyl ether	0.000		0	N.D.	
23) 1,1-Dichloroethane	0.000		0	N.D.	
28) cis-1,2-Dichloroethene	0.000		0	N.D.	
30) Bromochloromethane	0.000		0	N.D.	
31) Cyclohexane	0.000		0	N.D.	
32) Chloroform	4.911	83	64	N.D.	
34) Carbon tetrachloride	0.000		0	N.D.	

Data Path : I:\VOLATILES\VOA104\2018\181206A\
Data File : V04181206A05.D
Acq On : 6 Dec 2018 8:31 am
Operator : VOA104:MV
Sample : WG1186463-5,31,5,5
Misc : WG1186463,ICAL15180
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 06 10:13:16 2018
Quant Method : I:\VOLATILES\VOA104\2018\181206A\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 30 09:42:37 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2018\181206A\V04181206A01.D
Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	0.000		0		N.D.	
39) 2-Butanone	0.000		0		N.D.	
41) Benzene	5.472	78	51		N.D.	
44) 1,2-Dichloroethane	0.000		0		N.D.	
47) Methyl cyclohexane	0.000		0		N.D.	
48) Trichloroethene	0.000		0		N.D.	
51) 1,2-Dichloropropane	0.000		0		N.D.	
54) Bromodichloromethane	0.000		0		N.D.	
57) 1,4-Dioxane	0.000		0		N.D.	
58) cis-1,3-Dichloropropene	0.000		0		N.D.	
61) Toluene	0.000		0		N.D.	
62) 4-Methyl-2-pentanone	0.000		0		N.D.	
63) Tetrachloroethene	0.000		0		N.D.	
65) trans-1,3-Dichloropropene	0.000		0		N.D.	
68) 1,1,2-Trichloroethane	0.000		0		N.D.	
69) Chlorodibromomethane	0.000		0		N.D.	
71) 1,2-Dibromoethane	0.000		0		N.D.	
72) 2-Hexanone	0.000		0		N.D.	
73) Chlorobenzene	0.000		0		N.D.	
74) Ethylbenzene	0.000		0		N.D.	
76) p/m Xylene	0.000		0		N.D.	
77) o Xylene	0.000		0		N.D.	
78) Styrene	0.000		0		N.D.	
80) Bromoform	0.000		0		N.D.	
82) Isopropylbenzene	0.000		0		N.D.	
87) 1,1,2,2-Tetrachloroethane	0.000		0		N.D.	
100) 1,3-Dichlorobenzene	0.000		0		N.D.	
101) 1,4-Dichlorobenzene	0.000		0		N.D.	
104) 1,2-Dichlorobenzene	0.000		0		N.D.	
106) 1,2-Dibromo-3-chloropr...	0.000		0		N.D.	
109) 1,2,4-Trichlorobenzene	0.000		0		N.D.	
111) 1,2,3-Trichlorobenzene	0.000		0		N.D.	

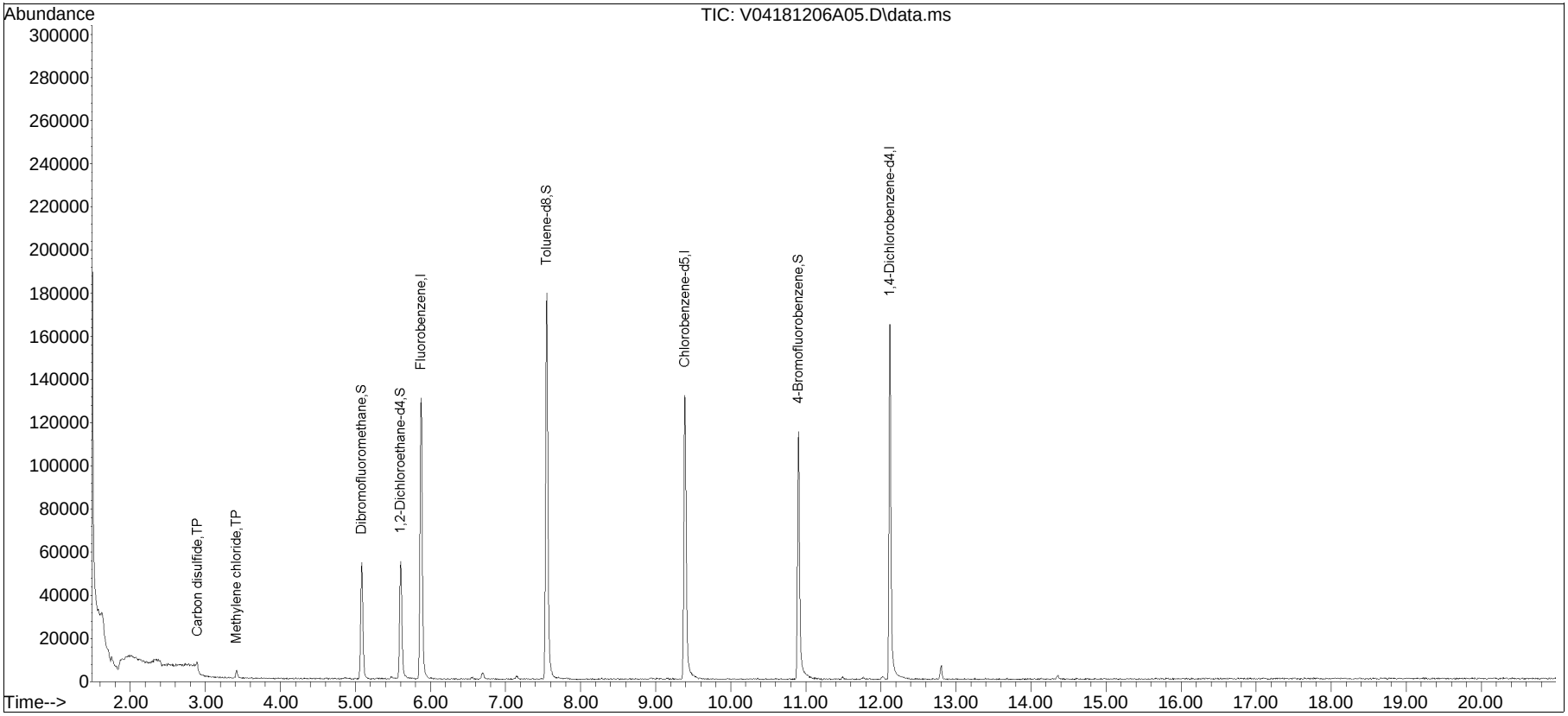
(#) = qualifier out of range (m) = manual integration (+) = signals summed

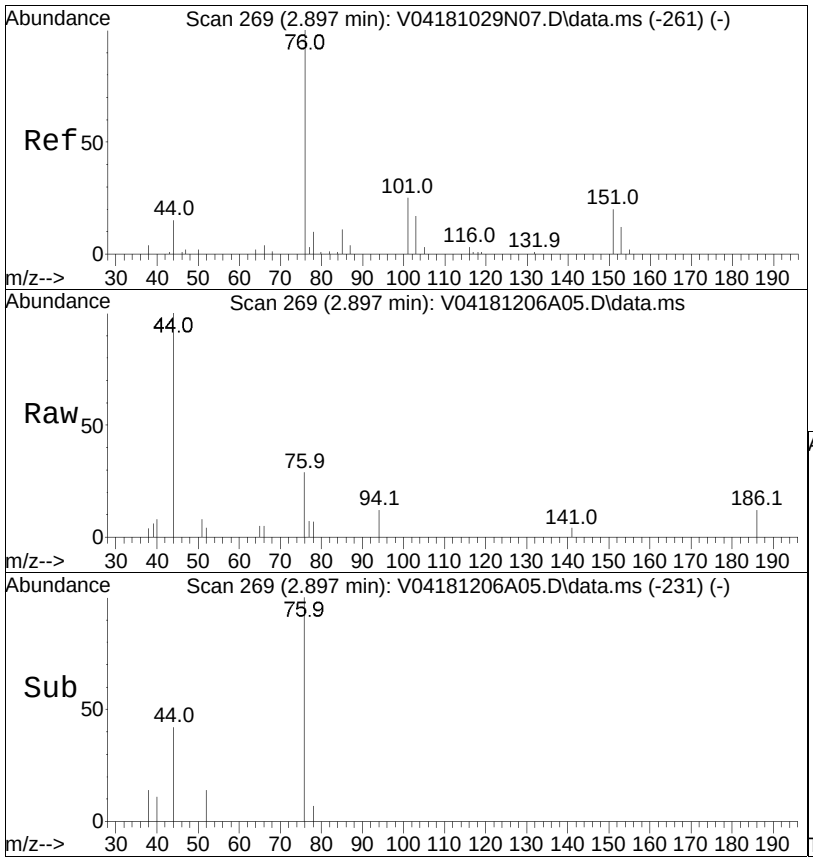
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2018\181206A\
Data File : V04181206A05.D
Acq On : 6 Dec 2018 8:31 am
Operator : VOA104:MV
Sample : WG1186463-5,31,5,5
Misc : WG1186463,ICAL15180
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 06 10:13:16 2018
Quant Method : I:\VOLATILES\VOA104\2018\181206A\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 30 09:42:37 2018
Response via : Initial Calibration

Sub List : 8260-CurveSoil - Megamix plus Diox6A\V04181206A01.D•

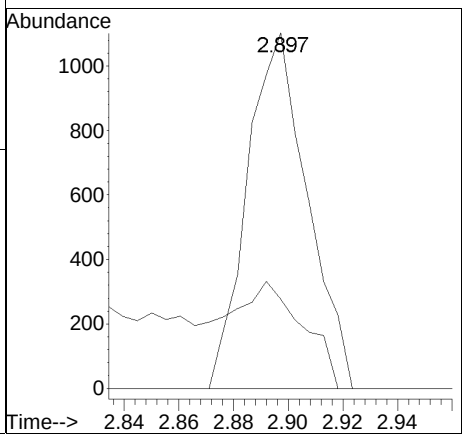


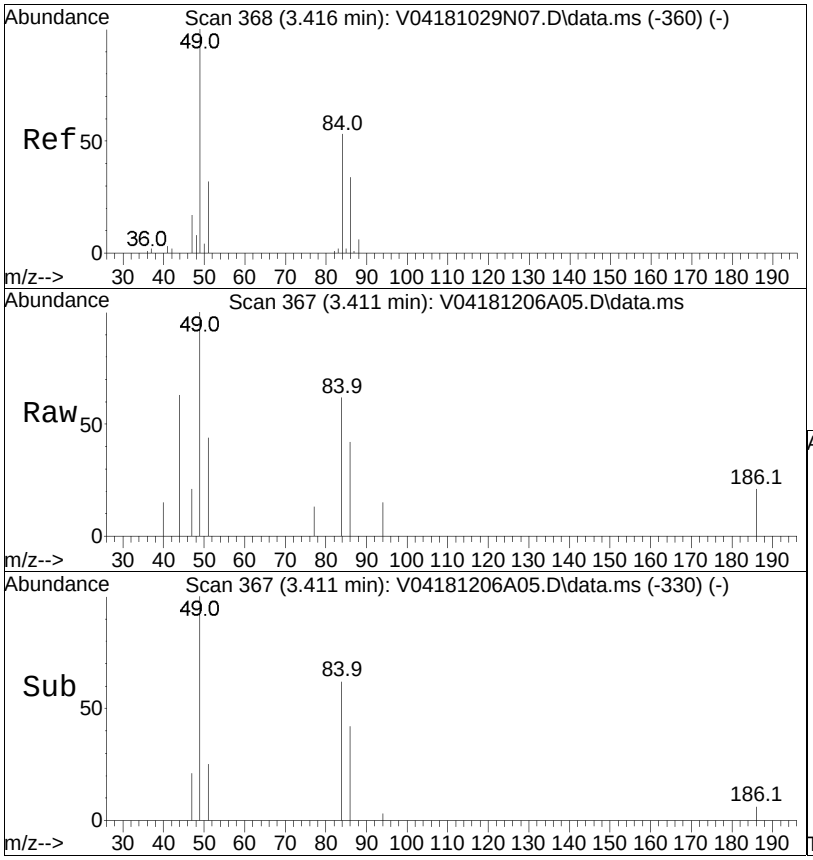


#11
Carbon disulfide
Concen: 0.47 ug/L
RT: 2.897 min Scan# 269
Delta R.T. 0.000 min
Lab File: V04181206A05.D
Acq: 6 Dec 2018 8:31 am

Tgt Ion: 76 Resp: 1685

Ion	Ratio	Lower	Upper
76	100		
78	35.4	6.6	13.8#

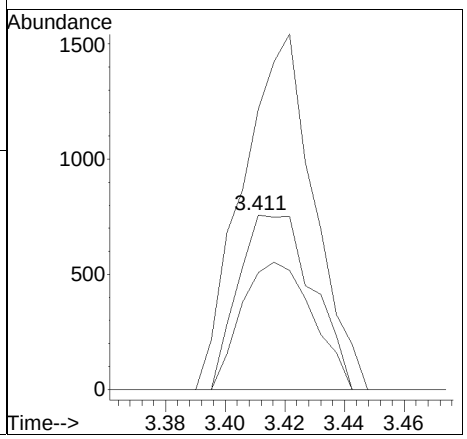




#15
Methylene chloride
Concen: 0.67 ug/L
RT: 3.411 min Scan# 367
Delta R.T. -0.005 min
Lab File: V04181206A05.D
Acq: 6 Dec 2018 8:31 am

Tgt Ion: 84 Resp: 1312

Ion	Ratio	Lower	Upper
84	100		
86	69.7	41.3	85.9
49	195.5	91.0	189.0#



Manual Integration Report

Data Path	: I:\VOLATILES\VOA104\2018\1	QMethod	: V104_181029N_8260.m
Data File	: V04181206A05.D	Operator	: VOA104:MV
Date Inj'd	: 12/6/2018 8:31 am	Instrument	: VOA 104
Sample	: WG1186463-5,31,5,5	Quant Date	: 12/6/2018 10:07 am

There are no manual integrations or false positives in this file.

LSC Area Percent Report

Data Path : I:\VOLATILES\VOA104\2018\181206A\
Data File : V04181206A05.D
Acq On : 6 Dec 2018 8:31 am
Operator : VOA104:MV
Sample : WG1186463-5,31,5,5
Misc : WG1186463,ICAL15180
ALS Vial : 7 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\VOLATILES\VOA104\2018\181206A\V104_181029N_8260.m
Title : VOLATILES BY GC/MS

Signal : TIC: V04181206A05.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.084	675	686	703	rBV	54180	115336	30.12%	6.631%
2	5.603	776	785	803	rBV	54376	117820	30.77%	6.774%
3	5.875	827	837	859	rBV	130308	277470	72.47%	15.953%
4	7.548	1147	1156	1179	rBV	179040	382880	100.00%	22.013%
5	9.388	1498	1507	1541	rBV	131632	303624	79.30%	17.456%
6	10.903	1785	1796	1824	rBV	114970	243121	63.50%	13.978%
7	12.120	2019	2028	2051	rBV	164666	299067	78.11%	17.194%

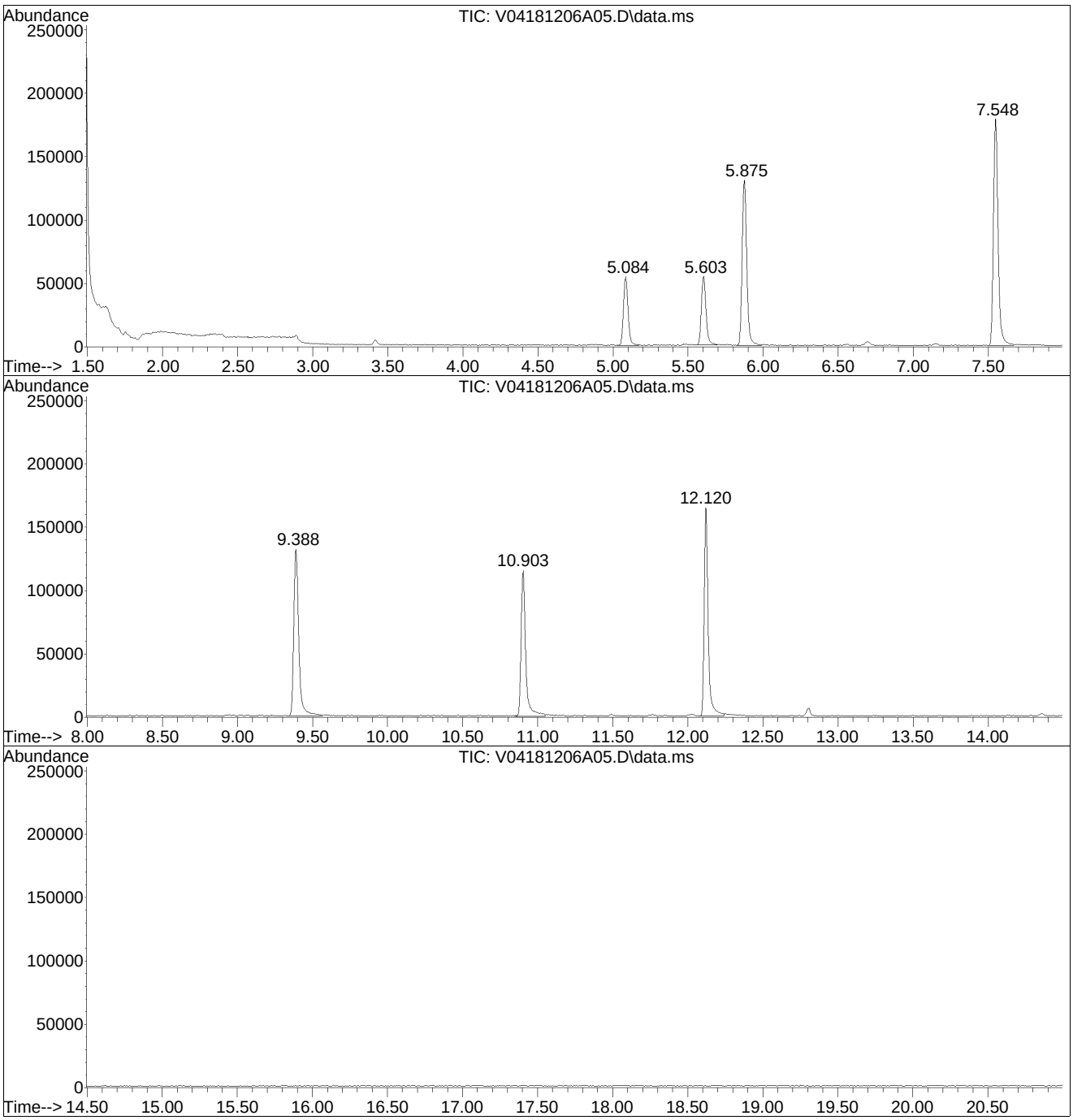
Sum of corrected areas: 1739318

LSC Report - Integrated Chromatogram

Data Path : I:\VOLATILES\VOA104\2018\181206A\
Data File : V04181206A05.D
Acq On : 6 Dec 2018 8:31 am
Operator : VOA104:MV
Sample : WG1186463-5,31,5,5
Misc : WG1186463,ICAL15180
ALS Vial : 7 Sample Multiplier: 1

Quant Method : I:\VOLATILES\VOA104\2018\181206A\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: rteint.p



Library Search Compound Report

Data Path : I:\VOLATILES\VOA104\2018\181206A\
Data File : V04181206A05.D
Acq On : 6 Dec 2018 8:31 am
Operator : VOA104:MV
Sample : WG1186463-5,31,5,5
Misc : WG1186463,ICAL15180
ALS Vial : 7 Sample Multiplier: 1

Quant Method : I:\VOLATILES\VOA104\2018\181206A\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: rteint.p

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : I:\VOLATILES\VOA104\2018\181206A\
Data File : V04181206A05.D
Acq On : 6 Dec 2018 8:31 am
Operator : VOA104:MV
Sample : WG1186463-5,31,5,5
Misc : WG1186463,ICAL15180
ALS Vial : 7 Sample Multiplier: 1

Quant Method : I:\VOLATILES\VOA104\2018\181206A\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: rteint.p

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2018\181206N\
Data File : V11181206N04.D
Acq On : 06 Dec 2018 03:55 pm
Operator : VOA111:JC
Sample : WG1186672-5,31,5,5
Misc : WG1186672,ICAL15260
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 07 09:06:51 2018
Quant Method : I:\VOLATILES\VOA111\2018\181206N\V111_181115N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 19 17:40:28 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2018\181206N\V11181206N01.D
Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.549	96	75384	20.000	ug/L	0.00
Standard Area 1 = 82887			Recovery =	90.95%		
59) Chlorobenzene-d5	9.020	117	58379	20.000	ug/L	0.00
Standard Area 1 = 66465			Recovery =	87.83%		
79) 1,4-Dichlorobenzene-d4	11.830	152	29416	20.000	ug/L	0.00
Standard Area 1 = 34331			Recovery =	85.68%		
System Monitoring Compounds						
36) Dibromofluoromethane	4.773	113	20130	19.975	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	99.88%		
43) 1,2-Dichloroethane-d4	5.271	65	24775	19.934	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	99.67%		
60) Toluene-d8	7.200	98	74147	21.246	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	106.23%		
83) 4-Bromofluorobenzene	10.561	95	27529	20.167	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	100.84%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.		
3) Chloromethane	0.000		0	N.D.		
4) Vinyl chloride	0.000		0	N.D.		
5) Bromomethane	0.000		0	N.D.		
6) Chloroethane	0.000		0	N.D.		
7) Trichlorofluoromethane	0.000		0	N.D.		
10) 1,1-Dichloroethene	0.000		0	N.D.		
11) Carbon disulfide	0.000		0	N.D. d		
12) Freon-113	0.000		0	N.D.		
15) Methylene chloride	3.168	84	389	0.415	ug/L	81
17) Acetone	0.000		0	N.D. d		
18) trans-1,2-Dichloroethene	0.000		0	N.D.		
19) Methyl acetate	3.216	43	72	N.D.		
20) Methyl tert-butyl ether	0.000		0	N.D.		
23) 1,1-Dichloroethane	0.000		0	N.D.		
28) cis-1,2-Dichloroethene	0.000		0	N.D.		
30) Bromochloromethane	0.000		0	N.D.		
31) Cyclohexane	0.000		0	N.D.		
32) Chloroform	0.000		0	N.D.		
34) Carbon tetrachloride	0.000		0	N.D.		

Data Path : I:\VOLATILES\VOA111\2018\181206N\
Data File : V11181206N04.D
Acq On : 06 Dec 2018 03:55 pm
Operator : VOA111:JC
Sample : WG1186672-5,31,5,5
Misc : WG1186672,ICAL15260
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 07 09:06:51 2018
Quant Method : I:\VOLATILES\VOA111\2018\181206N\V111_181115N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 19 17:40:28 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2018\181206N\V11181206N01.D
Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	0.000		0	N.D.		
39) 2-Butanone	0.000		0	N.D.		
41) Benzene	0.000		0	N.D.		
44) 1,2-Dichloroethane	0.000		0	N.D.		
47) Methyl cyclohexane	0.000		0	N.D.		
48) Trichloroethene	0.000		0	N.D.		
51) 1,2-Dichloropropane	0.000		0	N.D.		
54) Bromodichloromethane	0.000		0	N.D.		
57) 1,4-Dioxane	0.000		0	N.D.		
58) cis-1,3-Dichloropropene	0.000		0	N.D.		
61) Toluene	0.000		0	N.D.		
62) 4-Methyl-2-pentanone	0.000		0	N.D.		
63) Tetrachloroethene	0.000		0	N.D.		
65) trans-1,3-Dichloropropene	0.000		0	N.D.		
68) 1,1,2-Trichloroethane	0.000		0	N.D.		
69) Chlorodibromomethane	0.000		0	N.D.		
71) 1,2-Dibromoethane	0.000		0	N.D.		
72) 2-Hexanone	0.000		0	N.D.		
73) Chlorobenzene	0.000		0	N.D.		
74) Ethylbenzene	0.000		0	N.D.		
76) p/m Xylene	0.000		0	N.D.		
77) o Xylene	0.000		0	N.D.		
78) Styrene	0.000		0	N.D.		
80) Bromoform	0.000		0	N.D.		
82) Isopropylbenzene	0.000		0	N.D.		
87) 1,1,2,2-Tetrachloroethane	0.000		0	N.D.		
100) 1,3-Dichlorobenzene	11.746	146	51	N.D.		
101) 1,4-Dichlorobenzene	11.835	146	53	N.D.		
104) 1,2-Dichlorobenzene	0.000		0	N.D.		
106) 1,2-Dibromo-3-chloropr...	0.000		0	N.D.		
109) 1,2,4-Trichlorobenzene	13.738	180	125	N.D.		
111) 1,2,3-Trichlorobenzene	14.189	180	612	0.466	ug/L #	91

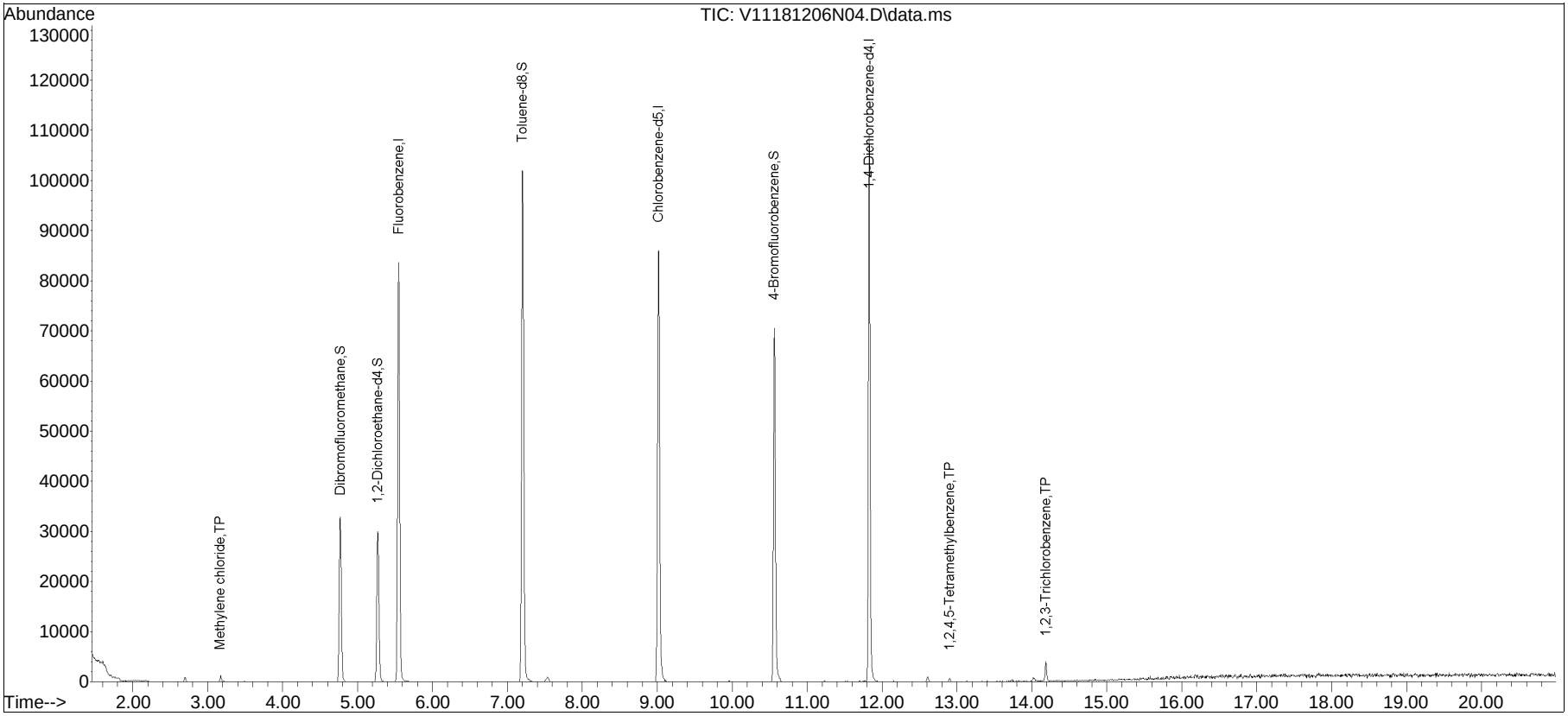
(#) = qualifier out of range (m) = manual integration (+) = signals summed

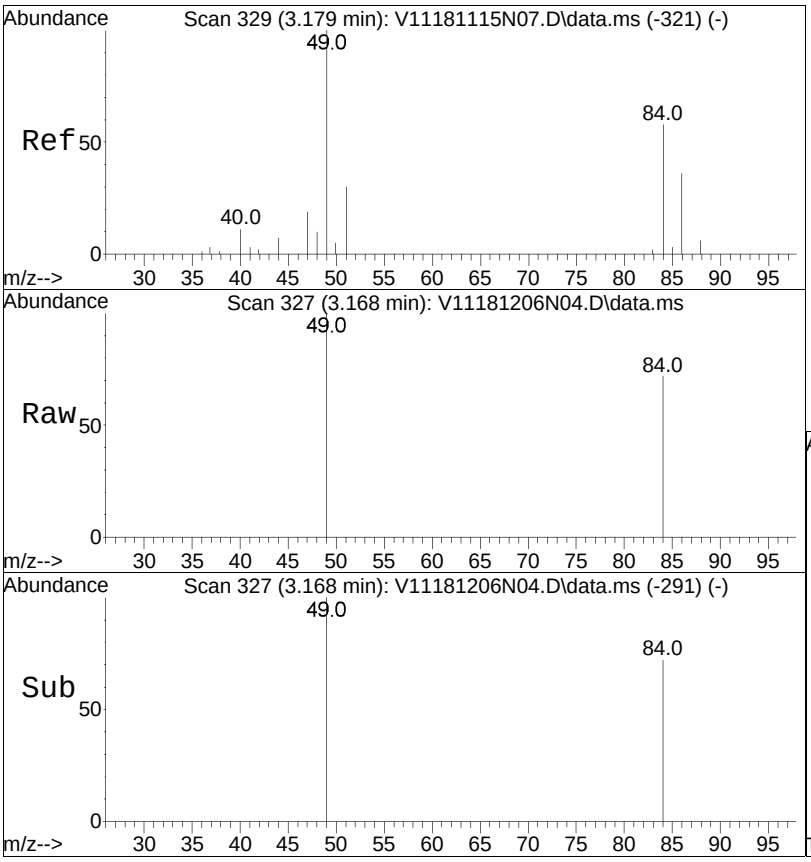
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2018\181206N\
Data File : V11181206N04.D
Acq On : 06 Dec 2018 03:55 pm
Operator : VOA111:JC
Sample : WG1186672-5,31,5,5
Misc : WG1186672,ICAL15260
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 07 09:06:51 2018
Quant Method : I:\VOLATILES\VOA111\2018\181206N\V111_181115N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 19 17:40:28 2018
Response via : Initial Calibration

Sub List : 8260-CurveSoil - Megamix plus Diox6N\V11181206N01.D•

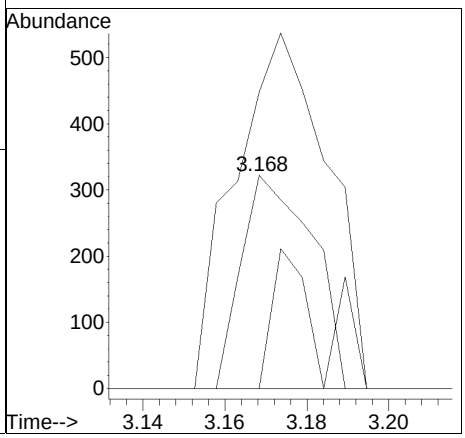


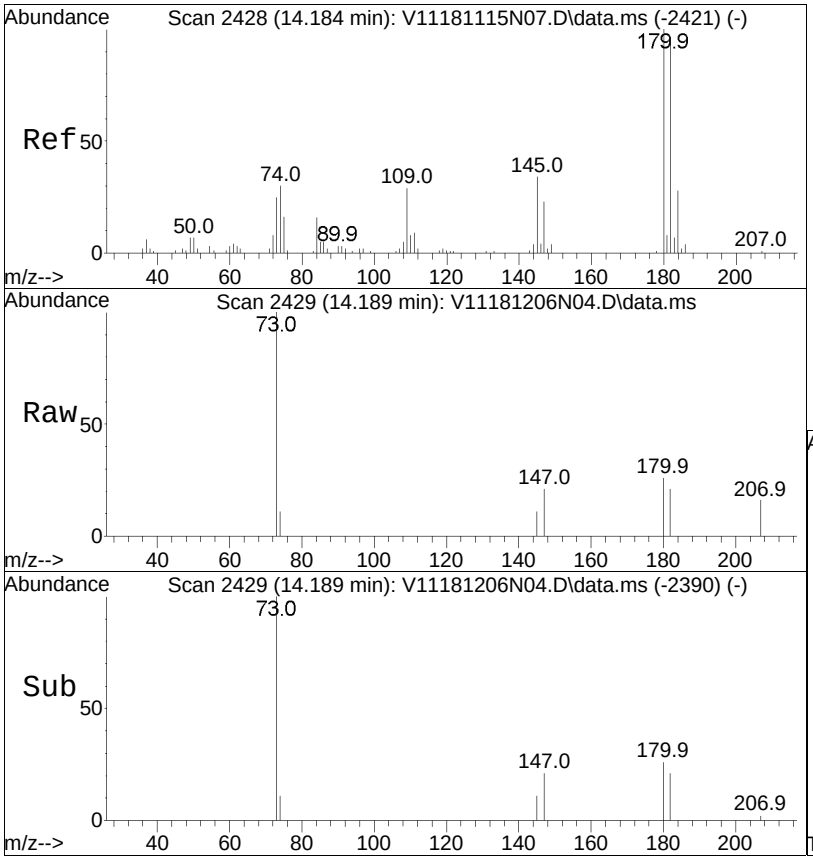


#15
Methylene chloride
Concen: 0.42 ug/L
RT: 3.168 min Scan# 327
Delta R.T. -0.011 min
Lab File: V11181206N04.D
Acq: 06 Dec 2018 03:55 pm

Tgt Ion: 84 Resp: 389

Ion	Ratio	Lower	Upper
84	100		
86	44.2	41.1	85.3
49	216.5	124.2	258.0

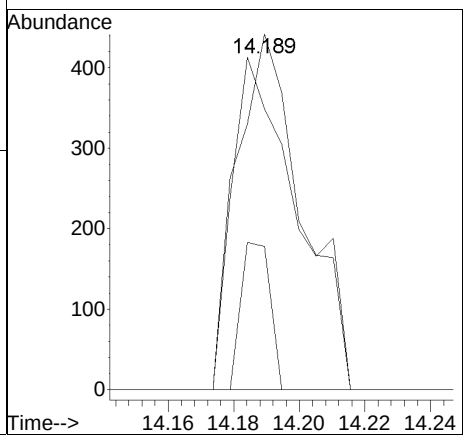




#111
1,2,3-Trichlorobenzene
Concen: 0.47 ug/L
RT: 14.189 min Scan# 2429
Delta R.T. 0.005 min
Lab File: V11181206N04.D
Acq: 06 Dec 2018 03:55 pm

Tgt Ion:180 Resp: 612

Ion	Ratio	Lower	Upper
180	100		
182	95.6	74.2	111.4
145	18.6	26.3	39.5#



Manual Integration Report

Data Path	: I:\VOLATILES\VOA111\2018\1	QMethod	: V111_181115N_8260.m
Data File	: V11181206N04.D	Operator	: VOA111:JC
Date Inj'd	: 12/6/2018 3:55 pm	Instrument	: VOA111
Sample	: WG1186672-5,31,5,5	Quant Date	: 12/7/2018 9:06 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2018\181206A\
Data File : V04181206A01.D
Acq On : 6 Dec 2018 6:44 am
Operator : VOA104:MV
Sample : WG1186463-3,31,5,5
Misc : WG1186463,ICAL15180
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 06 07:17:31 2018
Quant Method : I:\VOLATILES\VOA104\2018\181206A\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 30 09:42:37 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2018\181206A\V04181206A01.D
Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.870	96	131170	20.000	ug/L	0.00
Standard Area 1 = 131170			Recovery = 100.00%			
59) Chlorobenzene-d5	9.388	117	100348	20.000	ug/L	0.00
Standard Area 1 = 100348			Recovery = 100.00%			
79) 1,4-Dichlorobenzene-d4	12.115	152	50893	20.000	ug/L	0.00
Standard Area 1 = 50893			Recovery = 100.00%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.078	113	37426	22.412	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 112.06%			
43) 1,2-Dichloroethane-d4	5.597	65	40143	21.200	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 106.00%			
60) Toluene-d8	7.543	98	143991	21.636	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 108.18%			
83) 4-Bromofluorobenzene	10.898	95	53791	21.917	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 109.58%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.613	85	28928	19.185	ug/L	97
3) Chloromethane	1.791	50	49734	16.156	ug/L	98
4) Vinyl chloride	1.859	62	43089	19.227	ug/L	98
5) Bromomethane	2.158	94	22526	24.385	ug/L	99
6) Chloroethane	2.273	64	20087	19.897	ug/L	94
7) Trichlorofluoromethane	2.404	101	36854	22.161	ug/L	100
10) 1,1-Dichloroethene	2.871	96	23028	21.739	ug/L #	62
11) Carbon disulfide	2.897	76	66241	18.338	ug/L	100
12) Freon-113	2.903	101	24359	21.112	ug/L	95
15) Methylene chloride	3.411	84	36113	18.365	ug/L	74
17) Acetone	3.474	43	10595	18.242	ug/L #	84
18) trans-1,2-Dichloroethene	3.558	96	35133	20.446	ug/L	79
19) Methyl acetate	3.579	43	30777	18.936	ug/L	93
20) Methyl tert-butyl ether	3.658	73	87718	19.379	ug/L #	87
23) 1,1-Dichloroethane	4.129	63	85904	20.049	ug/L	96
28) cis-1,2-Dichloroethene	4.643	96	39739	20.753	ug/L #	81
30) Bromochloromethane	4.832	128	18571	20.238	ug/L #	72
31) Cyclohexane	4.816	56	87920	21.129	ug/L	73
32) Chloroform	4.905	83	62984	20.231	ug/L	97
34) Carbon tetrachloride	5.021	117	43732	20.462	ug/L	99

Data Path : I:\VOLATILES\VOA104\2018\181206A\
Data File : V04181206A01.D
Acq On : 6 Dec 2018 6:44 am
Operator : VOA104:MV
Sample : WG1186463-3,31,5,5
Misc : WG1186463,ICAL15180
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 06 07:17:31 2018
Quant Method : I:\VOLATILES\VOA104\2018\181206A\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 30 09:42:37 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2018\181206A\V04181206A01.D
Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) 1,1,1-Trichloroethane	5.089	97	51777	20.589	ug/L		94
39) 2-Butanone	5.210	43	18730	18.930	ug/L	#	88
41) Benzene	5.456	78	137698	20.133	ug/L	#	92
44) 1,2-Dichloroethane	5.666	62	53206	19.585	ug/L		99
47) Methyl cyclohexane	6.017	83	57178	22.002	ug/L	#	62
48) Trichloroethene	6.043	95	37478	20.607	ug/L		99
51) 1,2-Dichloropropane	6.588	63	51307	19.901	ug/L	#	92
54) Bromodichloromethane	6.667	83	47188	20.341	ug/L		91
57) 1,4-Dioxane	6.882	88	15085	863.426	ug/L	#	72
58) cis-1,3-Dichloropropene	7.349	75	56906	21.488	ug/L		95
61) Toluene	7.600	92	88664	19.801	ug/L		100
62) 4-Methyl-2-pentanone	8.046	58	20229	20.270	ug/L	#	83
63) Tetrachloroethene	8.046	166	38643	20.896	ug/L		98
65) trans-1,3-Dichloropropene	8.098	75	48519	19.020	ug/L		97
68) 1,1,2-Trichloroethane	8.282	83	26946	19.706	ug/L		99
69) Chlorodibromomethane	8.492	129	38492	19.385	ug/L		99
71) 1,2-Dibromoethane	8.764	107	31823	19.084	ug/L		99
72) 2-Hexanone	9.058	43	31092	19.842	ug/L	#	88
73) Chlorobenzene	9.404	112	101949	19.738	ug/L		98
74) Ethylbenzene	9.435	91	172157	20.141	ug/L		99
76) p/m Xylene	9.624	106	133298	41.460	ug/L		98
77) o Xylene	10.169	106	129811	40.990	ug/L		98
78) Styrene	10.243	104	214885	41.538	ug/L		99
80) Bromoform	10.280	173	24281	19.546	ug/L		100
82) Isopropylbenzene	10.557	105	170835	20.121	ug/L		100
87) 1,1,2,2-Tetrachloroethane	11.155	83	44708	20.914	ug/L		99
100) 1,3-Dichlorobenzene	12.036	146	82578	20.255	ug/L		99
101) 1,4-Dichlorobenzene	12.130	146	86826	20.151	ug/L		99
104) 1,2-Dichlorobenzene	12.560	146	79103	20.219	ug/L		99
106) 1,2-Dibromo-3-chloropr...	13.347	155	6677	18.764	ug/L		97
109) 1,2,4-Trichlorobenzene	13.971	180	55902	21.100	ug/L		99
111) 1,2,3-Trichlorobenzene	14.432	180	50811	20.025	ug/L		99

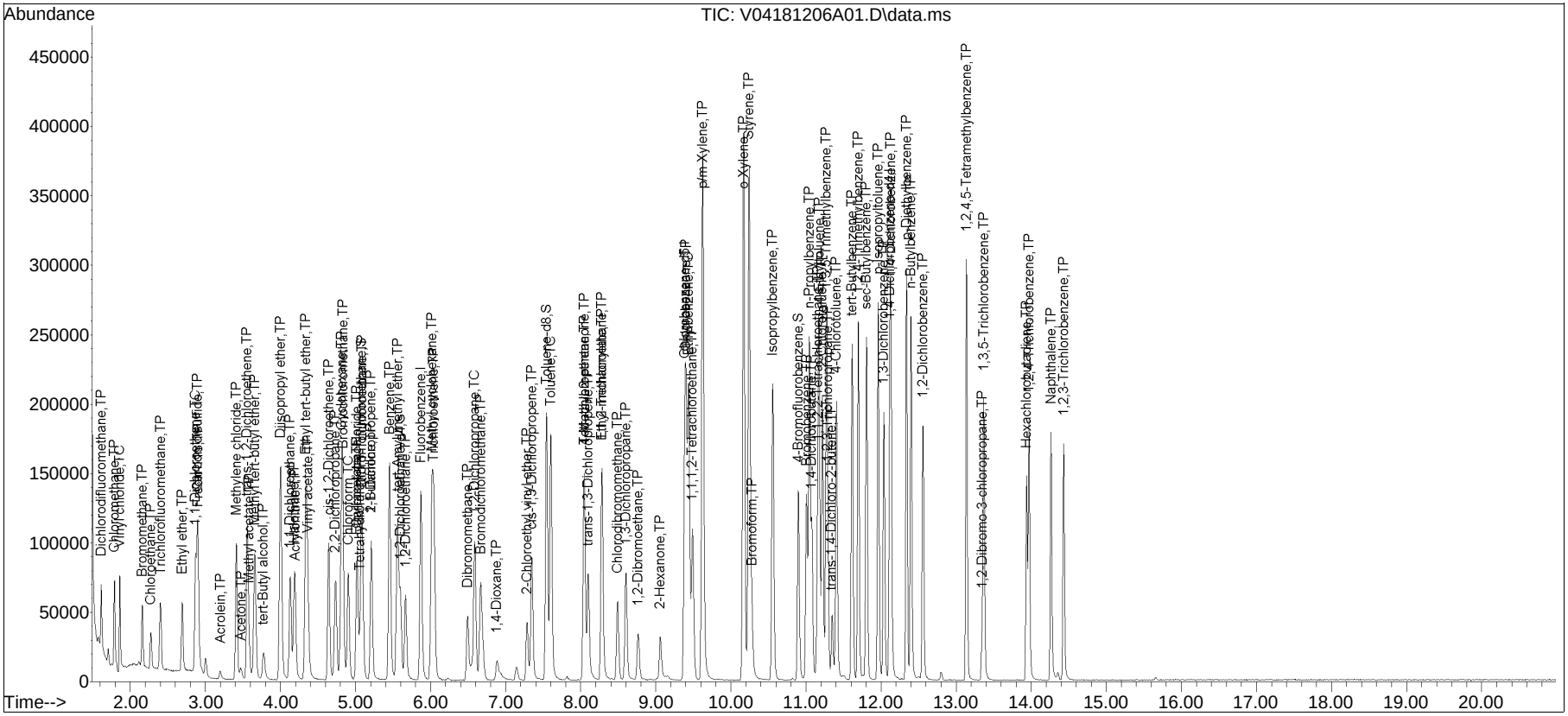
(#) = qualifier out of range (m) = manual integration (+) = signals summed

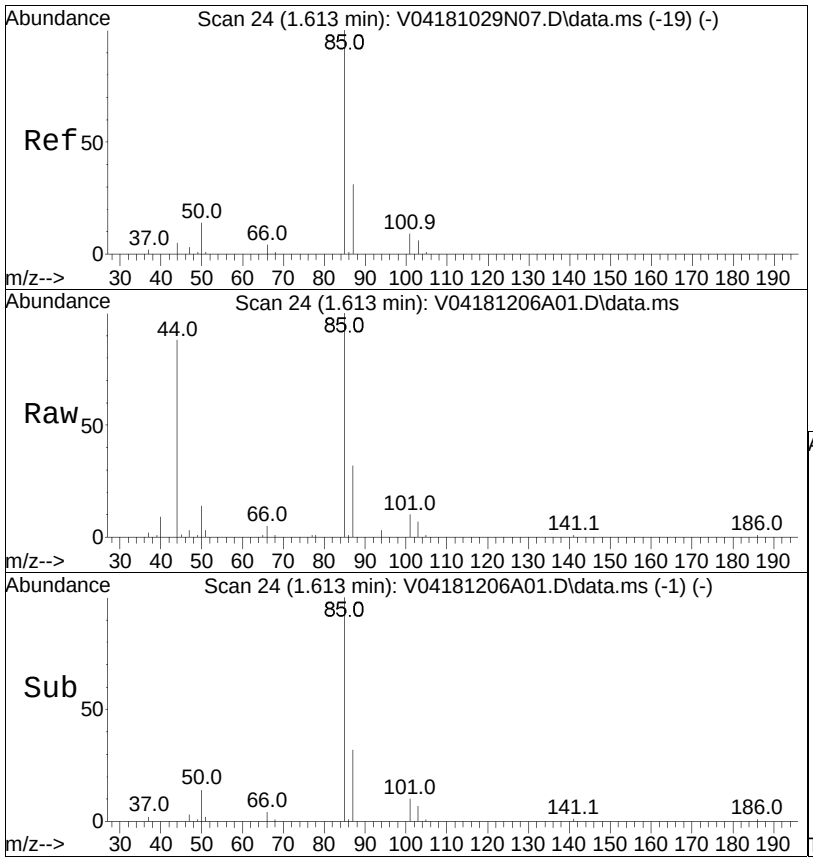
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2018\181206A\
Data File : V04181206A01.D
Acq On : 6 Dec 2018 6:44 am
Operator : VOA104:MV
Sample : WG1186463-3,31,5,5
Misc : WG1186463,ICAL15180
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 06 07:17:31 2018
Quant Method : I:\VOLATILES\VOA104\2018\181206A\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 30 09:42:37 2018
Response via : Initial Calibration

Sub List : 8260-CurveSoil - Megamix plus Diox6A\V04181206A01.D•

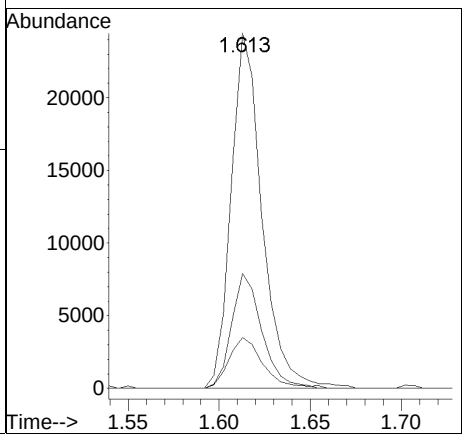


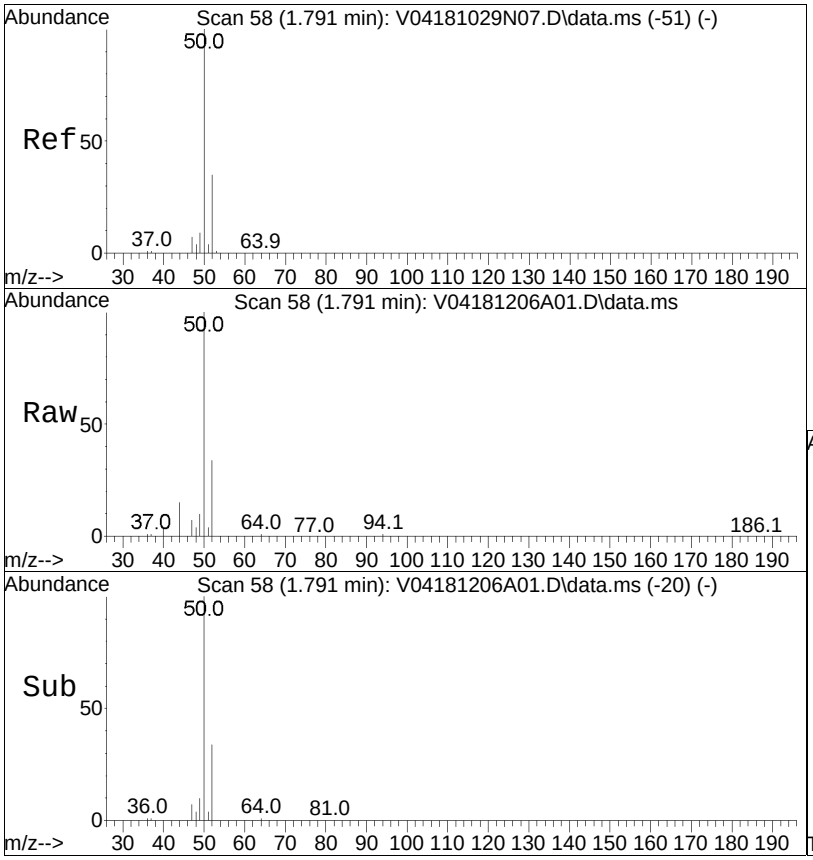


#2
Dichlorodifluoromethane
Concen: 19.18 ug/L
RT: 1.613 min Scan# 24
Delta R.T. -0.000 min
Lab File: V04181206A01.D
Acq: 6 Dec 2018 6:44 am

Tgt Ion: 85 Resp: 28928

Ion	Ratio	Lower	Upper
85	100		
87	31.7	20.9	43.5
50	15.9	8.1	16.9

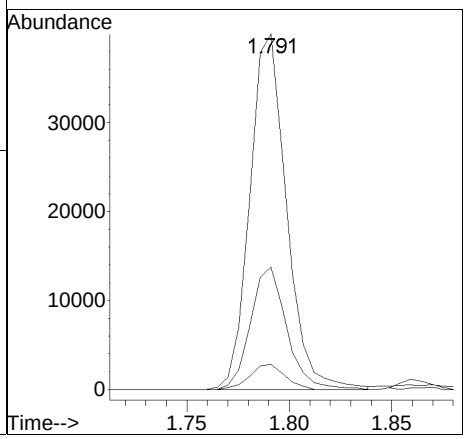


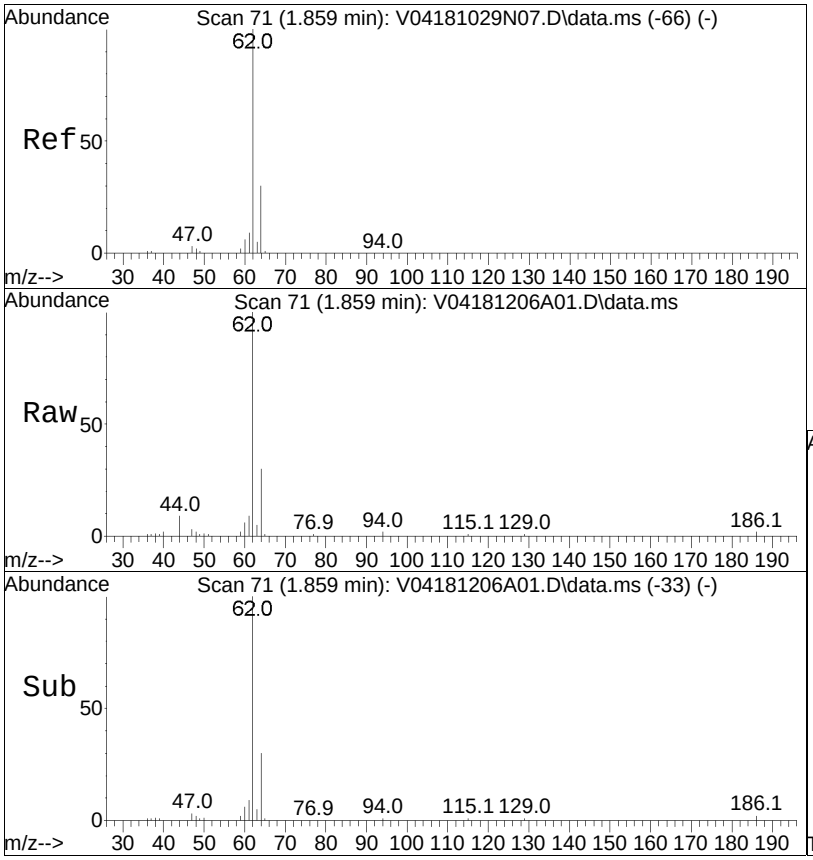


#3
Chloromethane
Concen: 16.16 ug/L
RT: 1.791 min Scan# 58
Delta R.T. 0.000 min
Lab File: V04181206A01.D
Acq: 6 Dec 2018 6:44 am

Tgt Ion: 50 Resp: 49734

Ion	Ratio	Lower	Upper
50	100		
52	33.8	13.0	53.0
47	6.8	0.0	28.2

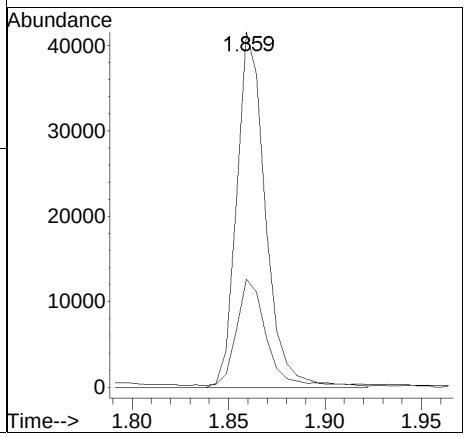


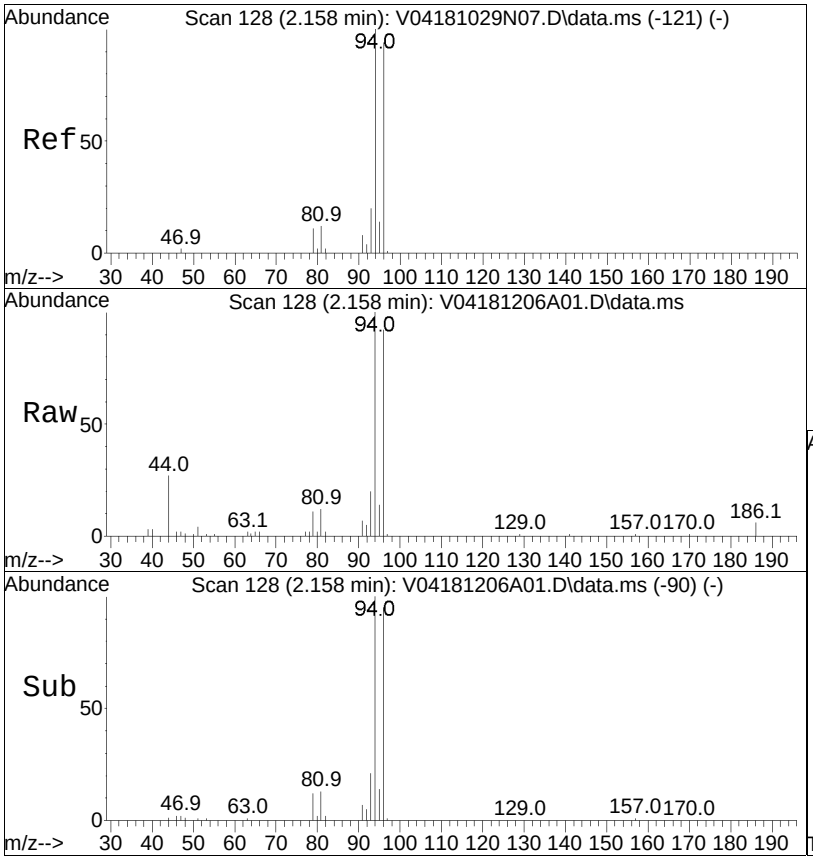


#4
Vinyl chloride
Concen: 19.23 ug/L
RT: 1.859 min Scan# 71
Delta R.T. 0.000 min
Lab File: V04181206A01.D
Acq: 6 Dec 2018 6:44 am

Tgt Ion: 62 Resp: 43089

Ion	Ratio	Lower	Upper
62	100		
64	30.4	11.6	51.6

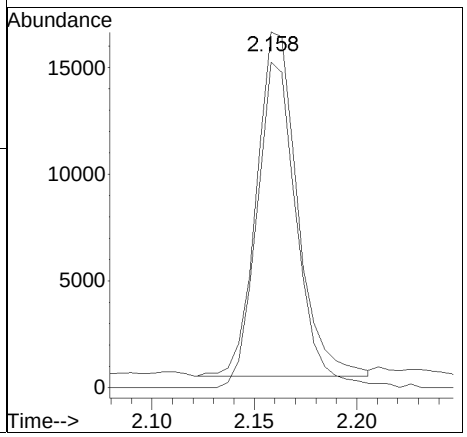


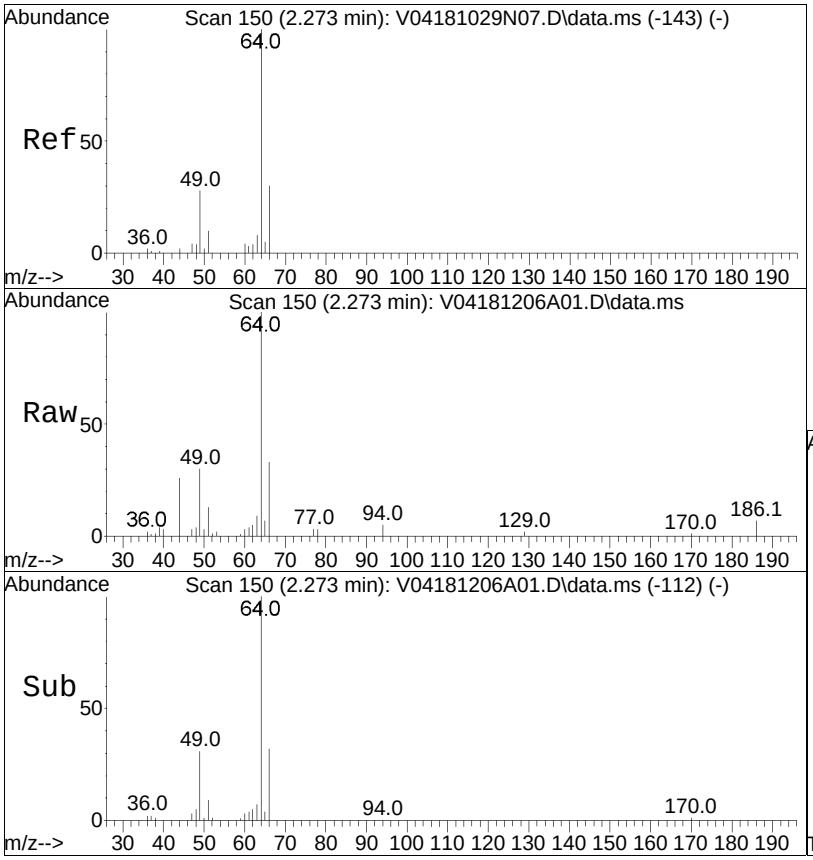


#5
Bromomethane
Concen: 24.39 ug/L
RT: 2.158 min Scan# 128
Delta R.T. 0.000 min
Lab File: V04181206A01.D
Acq: 6 Dec 2018 6:44 am

Tgt Ion: 94 Resp: 22526

Ion	Ratio	Lower	Upper
94	100		
96	91.8	71.0	111.0

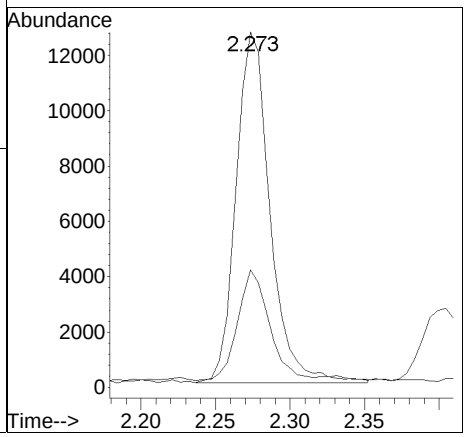


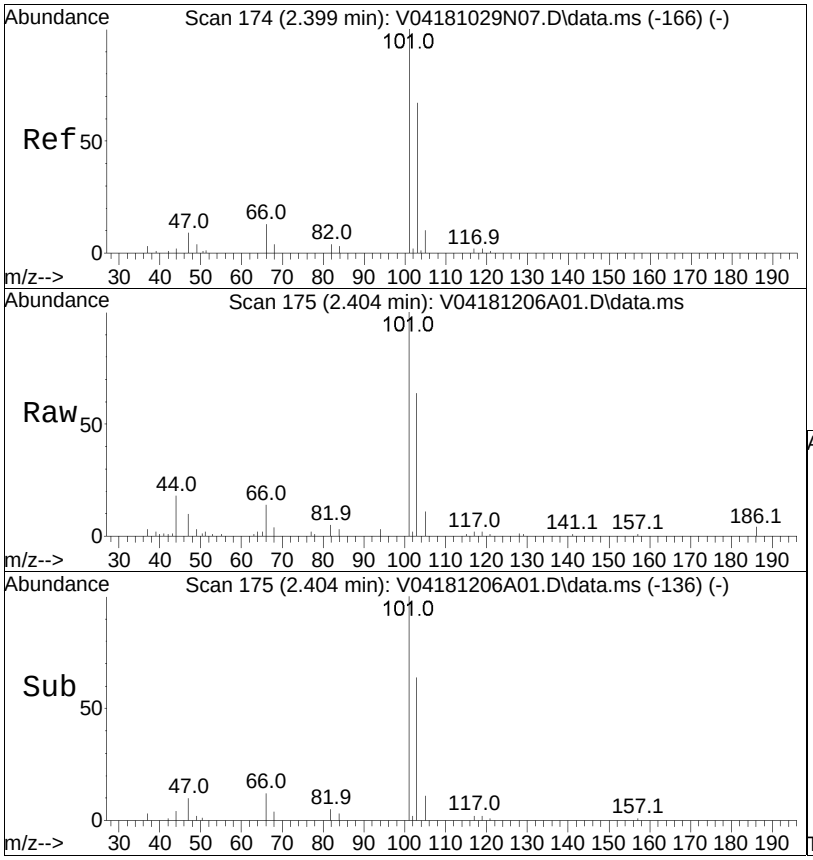


#6
Chloroethane
Concen: 19.90 ug/L
RT: 2.273 min Scan# 150
Delta R.T. 0.000 min
Lab File: V04181206A01.D
Acq: 6 Dec 2018 6:44 am

Tgt Ion: 64 Resp: 20087

Ion	Ratio	Lower	Upper
64	100		
66	30.2	13.7	53.7

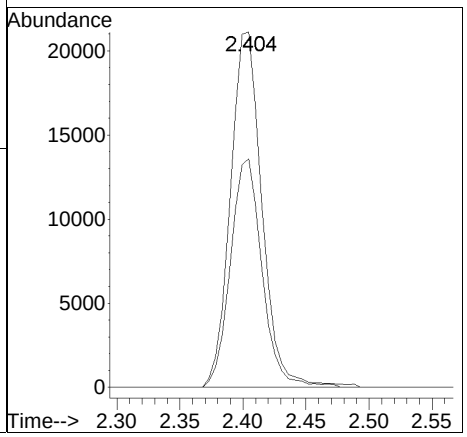


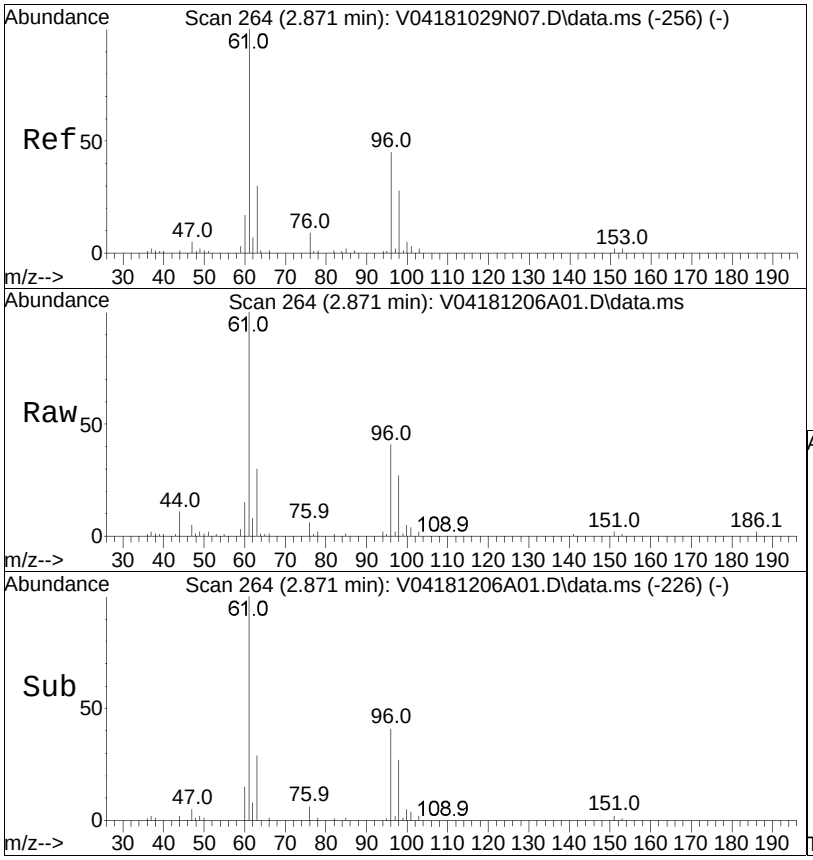


#7
Trichlorofluoromethane
Concen: 22.16 ug/L
RT: 2.404 min Scan# 175
Delta R.T. 0.005 min
Lab File: V04181206A01.D
Acq: 6 Dec 2018 6:44 am

Tgt Ion:101 Resp: 36854

Ion	Ratio	Lower	Upper
101	100		
103	64.5	51.7	77.5

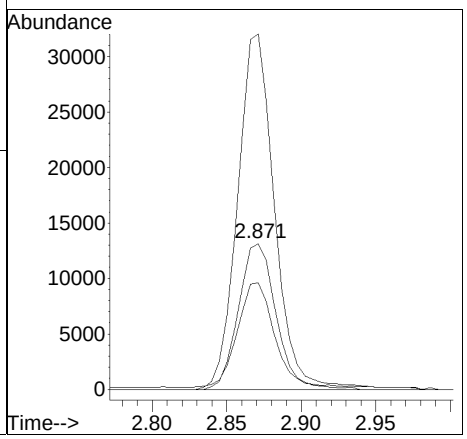


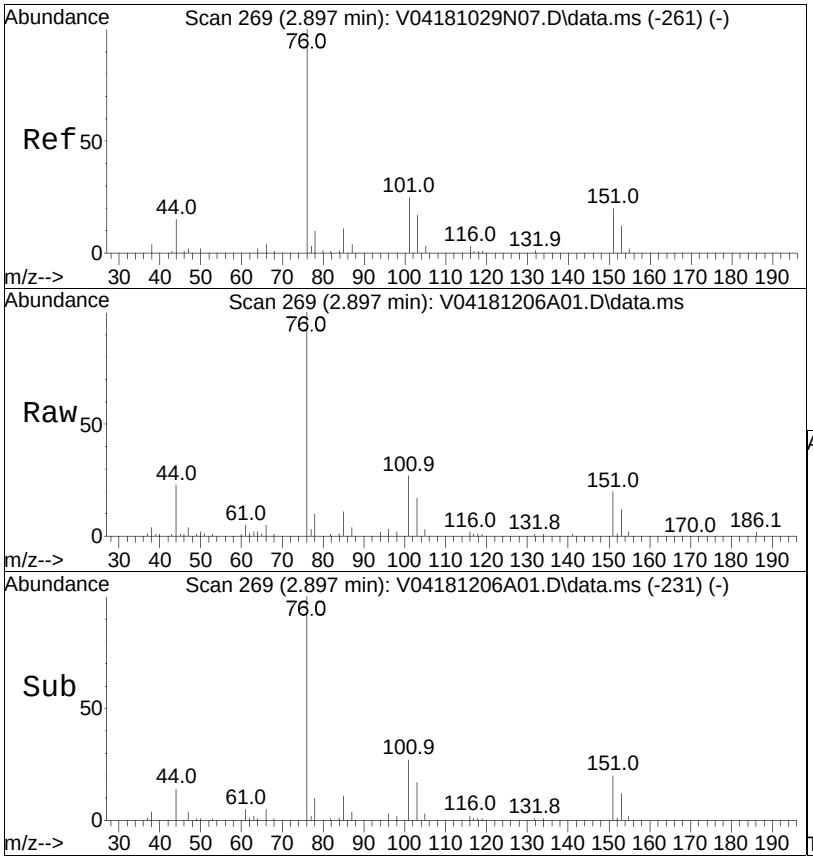


#10
1,1-Dichloroethene
Concen: 21.74 ug/L
RT: 2.871 min Scan# 264
Delta R.T. 0.000 min
Lab File: V04181206A01.D
Acq: 6 Dec 2018 6:44 am

Tgt Ion: 96 Resp: 23028

Ion	Ratio	Lower	Upper
96	100		
61	240.9	145.8	218.6#
63	78.6	46.6	69.8#

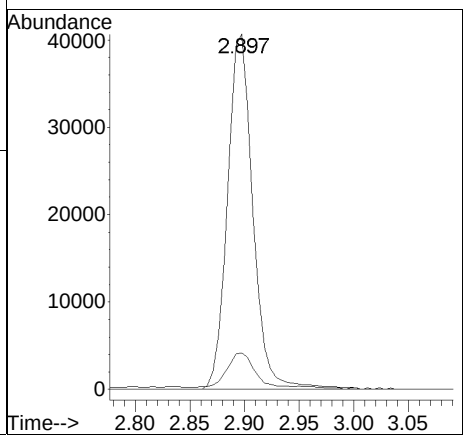


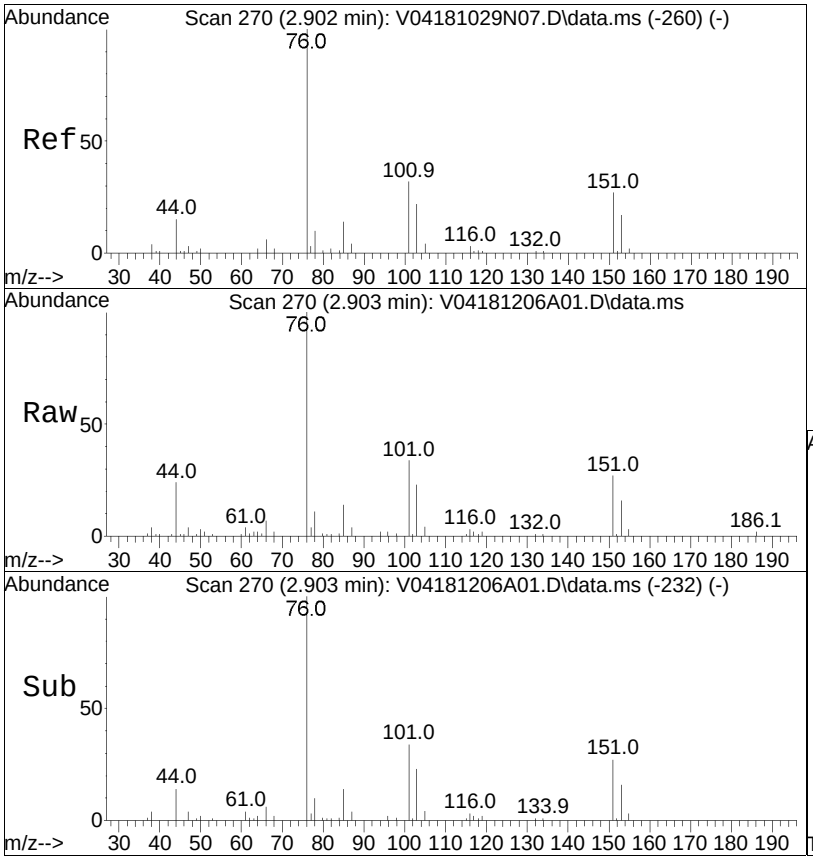


#11
Carbon disulfide
Concen: 18.34 ug/L
RT: 2.897 min Scan# 269
Delta R.T. 0.000 min
Lab File: V04181206A01.D
Acq: 6 Dec 2018 6:44 am

Tgt Ion: 76 Resp: 66241

Ion	Ratio	Lower	Upper
76	100		
78	10.1	6.6	13.8

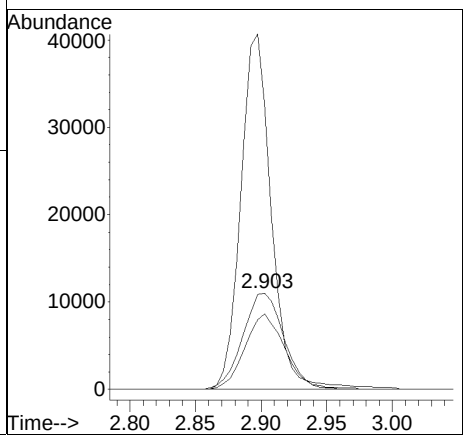


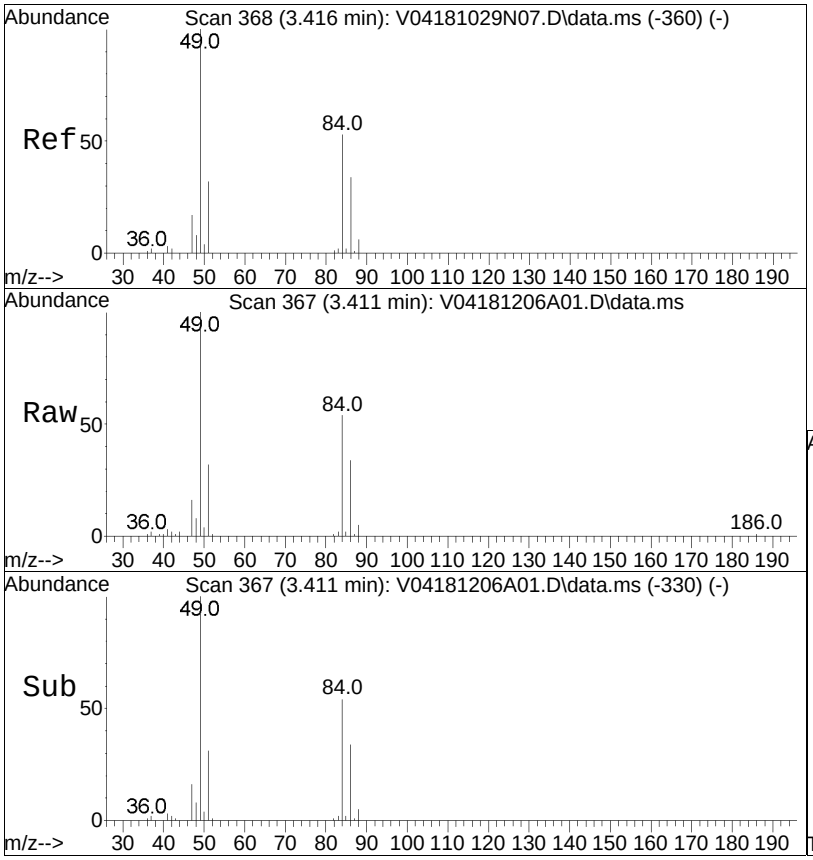


#12
Freon-113
Concen: 21.11 ug/L
RT: 2.903 min Scan# 270
Delta R.T. 0.001 min
Lab File: V04181206A01.D
Acq: 6 Dec 2018 6:44 am

Tgt Ion:101 Resp: 24359

Ion	Ratio	Lower	Upper
101	100		
151	74.7	65.3	97.9
76	271.9	224.2	336.4

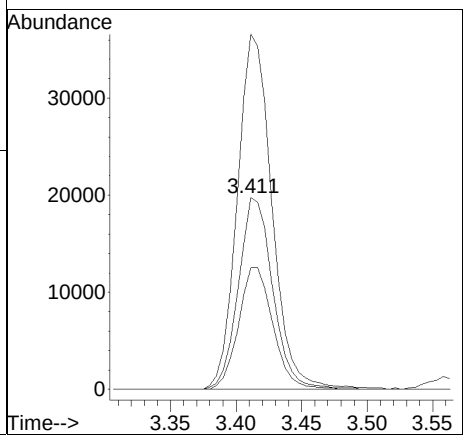


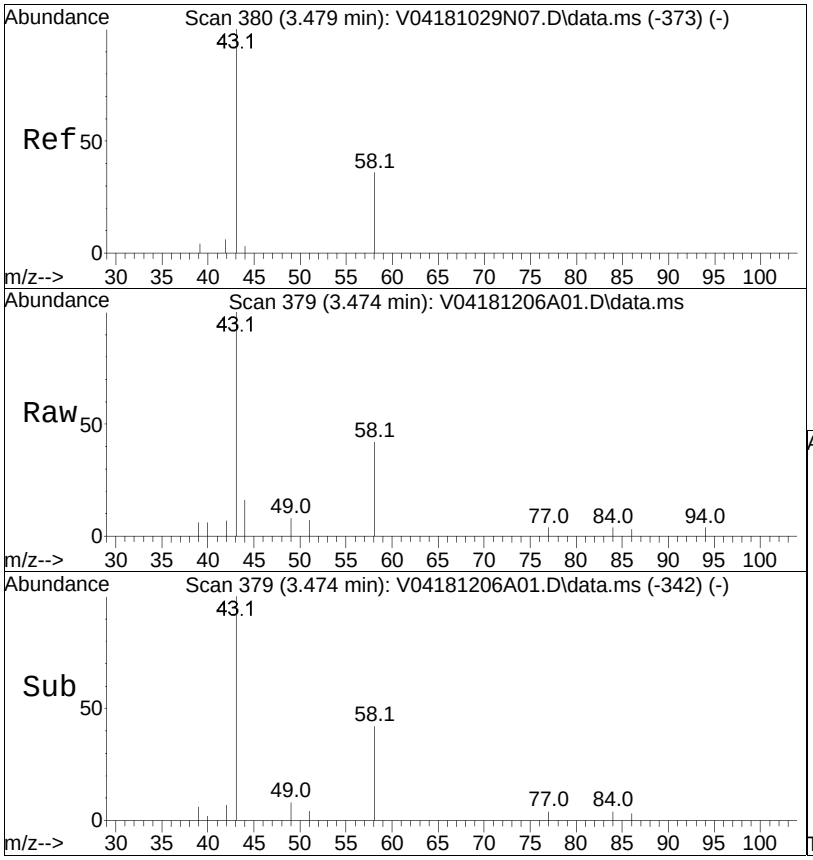


#15
Methylene chloride
Concen: 18.37 ug/L
RT: 3.411 min Scan# 367
Delta R.T. -0.005 min
Lab File: V04181206A01.D
Acq: 6 Dec 2018 6:44 am

Tgt Ion: 84 Resp: 36113

Ion	Ratio	Lower	Upper
84	100		
86	63.5	41.3	85.9
49	186.5	91.0	189.0

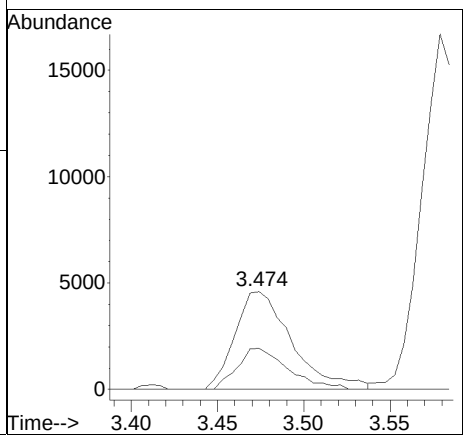


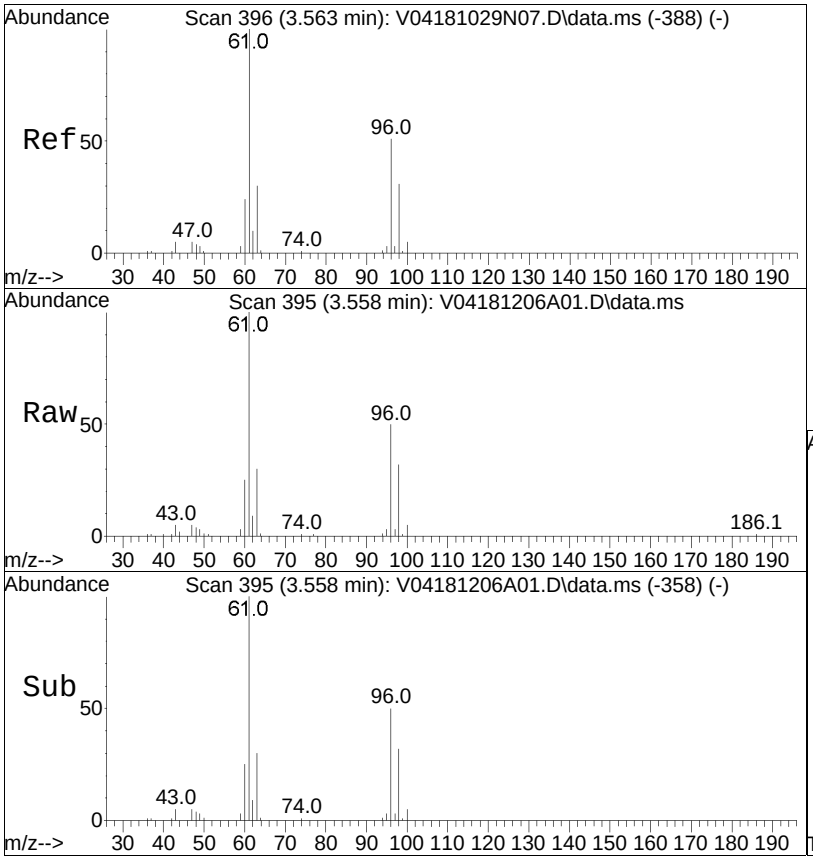


#17
Acetone
Concen: 18.24 ug/L
RT: 3.474 min Scan# 379
Delta R.T. -0.005 min
Lab File: V04181206A01.D
Acq: 6 Dec 2018 6:44 am

Tgt Ion: 43 Resp: 10595

Ion	Ratio	Lower	Upper
43	100		
58	37.7	23.2	34.8#

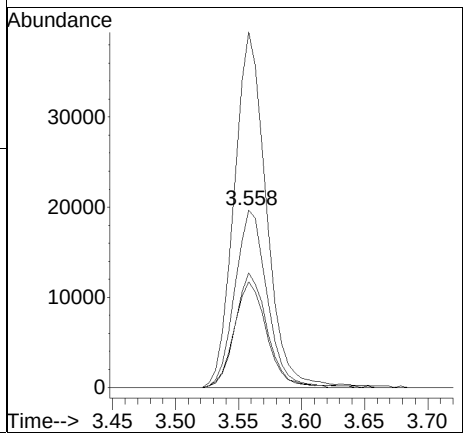


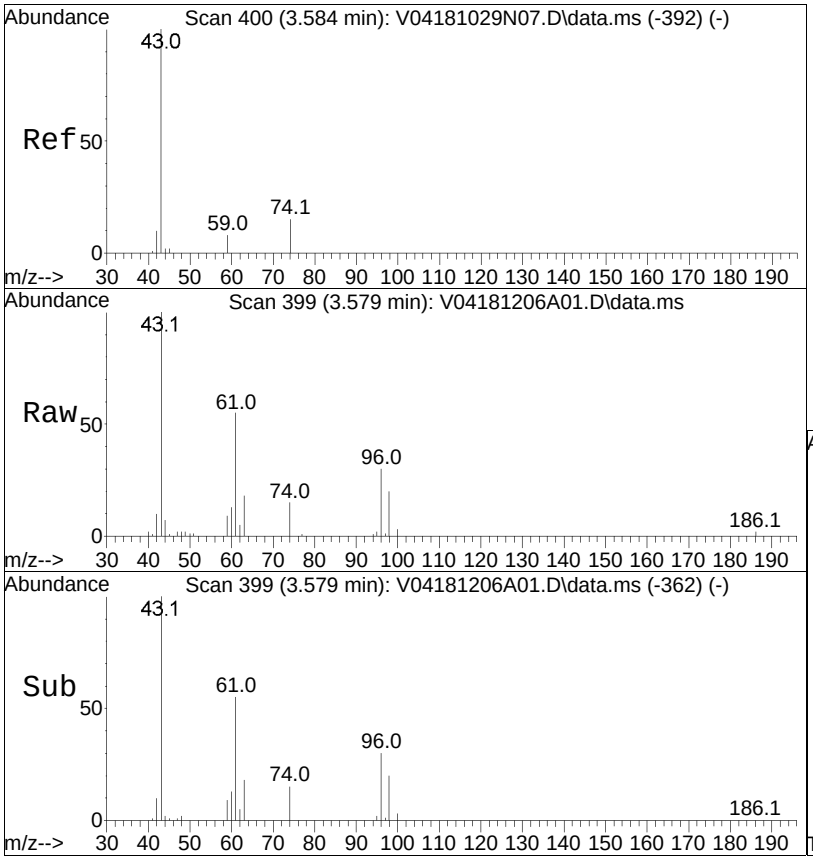


#18
trans-1,2-Dichloroethene
Concen: 20.45 ug/L
RT: 3.558 min Scan# 395
Delta R.T. -0.005 min
Lab File: V04181206A01.D
Acq: 6 Dec 2018 6:44 am

Tgt Ion: 96 Resp: 35133

Ion	Ratio	Lower	Upper
96	100		
61	199.8	103.7	215.3
98	63.2	41.0	85.0
63	60.6	32.1	66.7

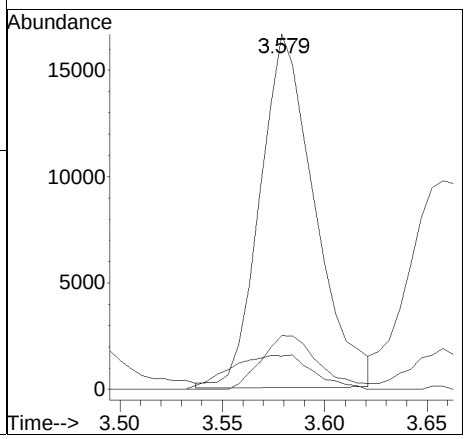


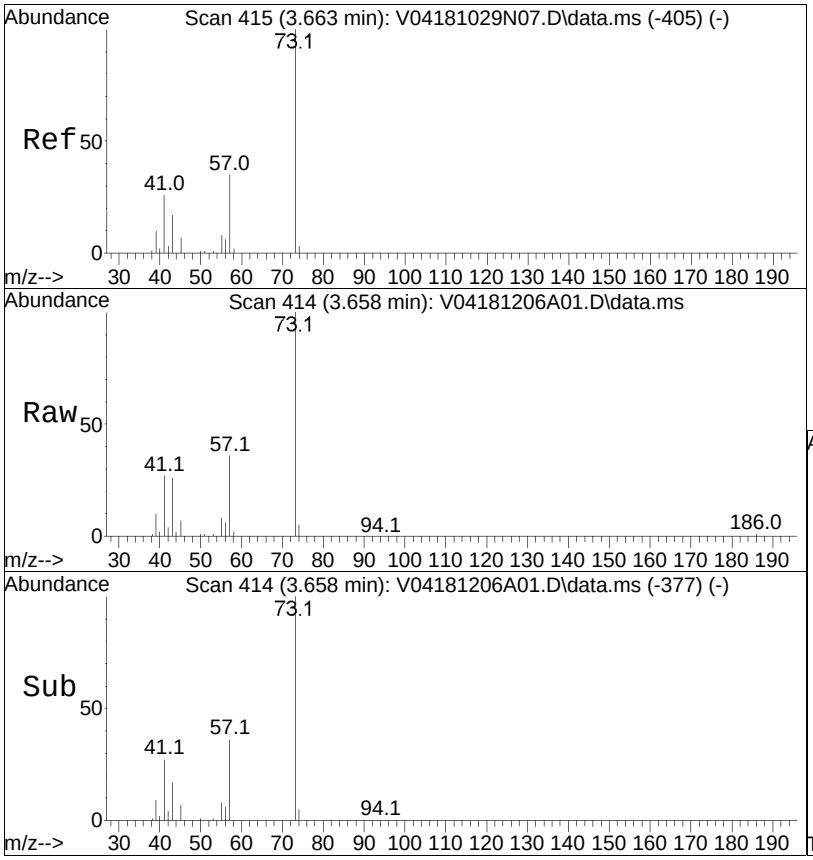


#19
Methyl acetate
Concen: 18.94 ug/L
RT: 3.579 min Scan# 399
Delta R.T. -0.005 min
Lab File: V04181206A01.D
Acq: 6 Dec 2018 6:44 am

Tgt Ion: 43 Resp: 30777

Ion	Ratio	Lower	Upper
43	100		
74	16.2	16.2	24.2
59	14.6	13.7	20.5

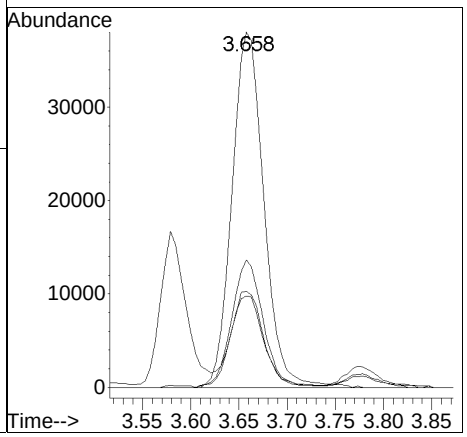


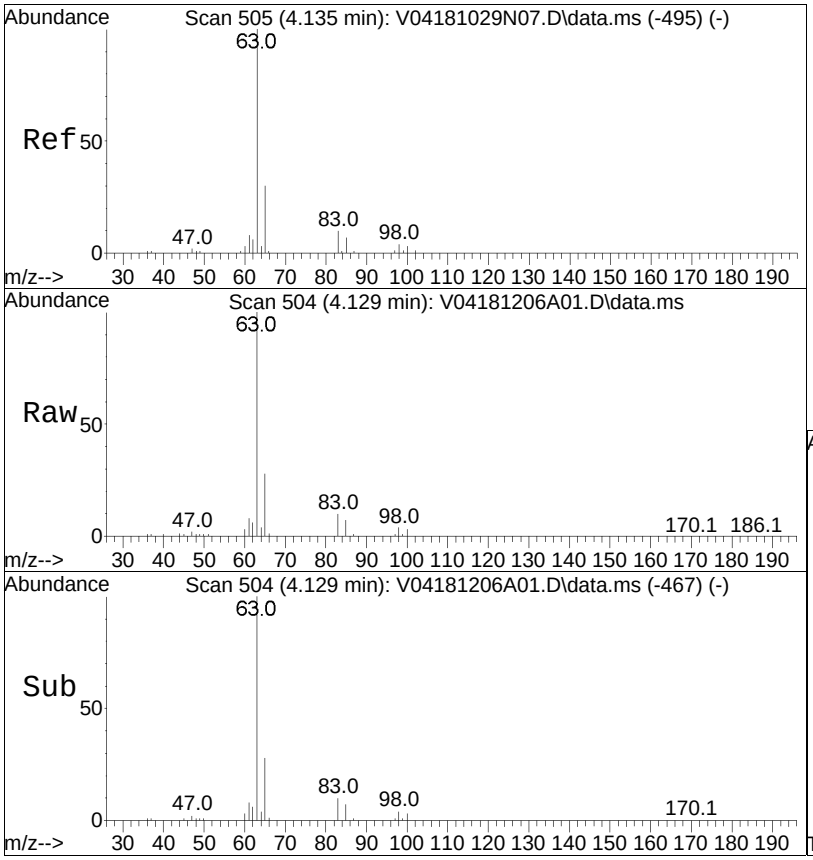


#20
Methyl tert-butyl ether
Concen: 19.38 ug/L
RT: 3.658 min Scan# 414
Delta R.T. -0.005 min
Lab File: V04181206A01.D
Acq: 6 Dec 2018 6:44 am

Tgt Ion: 73 Resp: 87718

Ion	Ratio	Lower	Upper
73	100		
57	35.4	16.3	33.9#
43	26.3	14.7	30.5
41	27.9	15.4	32.0

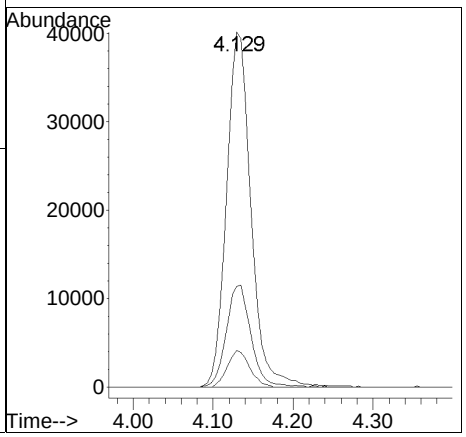


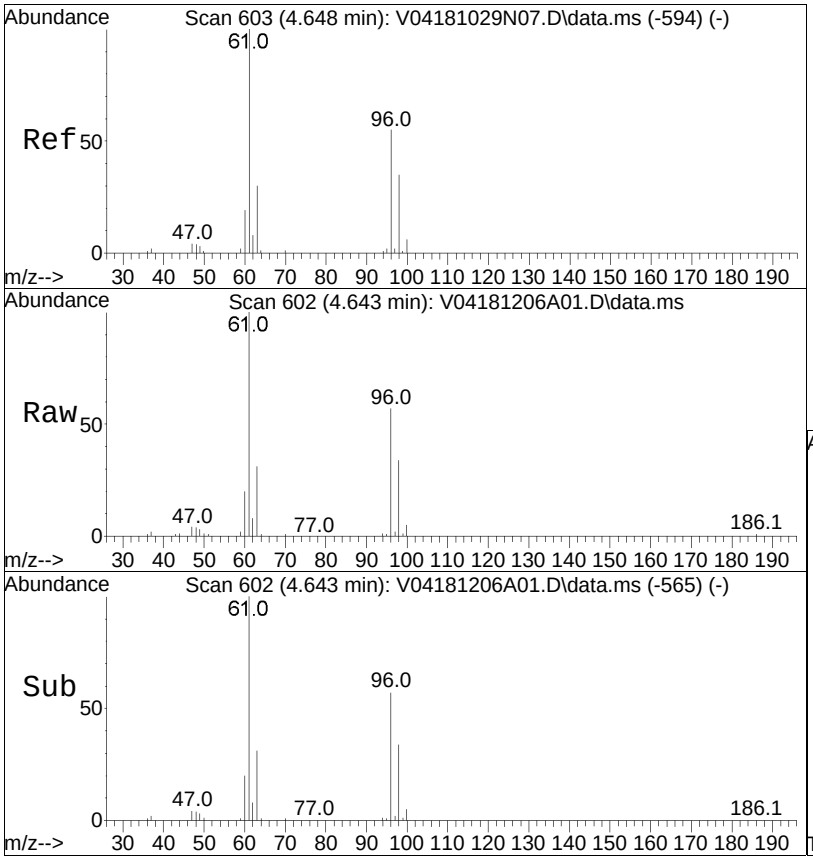


#23
1,1-Dichloroethane
Concen: 20.05 ug/L
RT: 4.129 min Scan# 504
Delta R.T. -0.006 min
Lab File: V04181206A01.D
Acq: 6 Dec 2018 6:44 am

Tgt Ion: 63 Resp: 85904

Ion	Ratio	Lower	Upper
63	100		
65	29.0	10.4	50.4
83	9.5	0.0	32.2

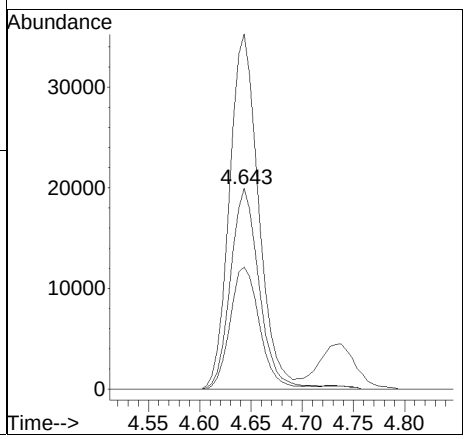


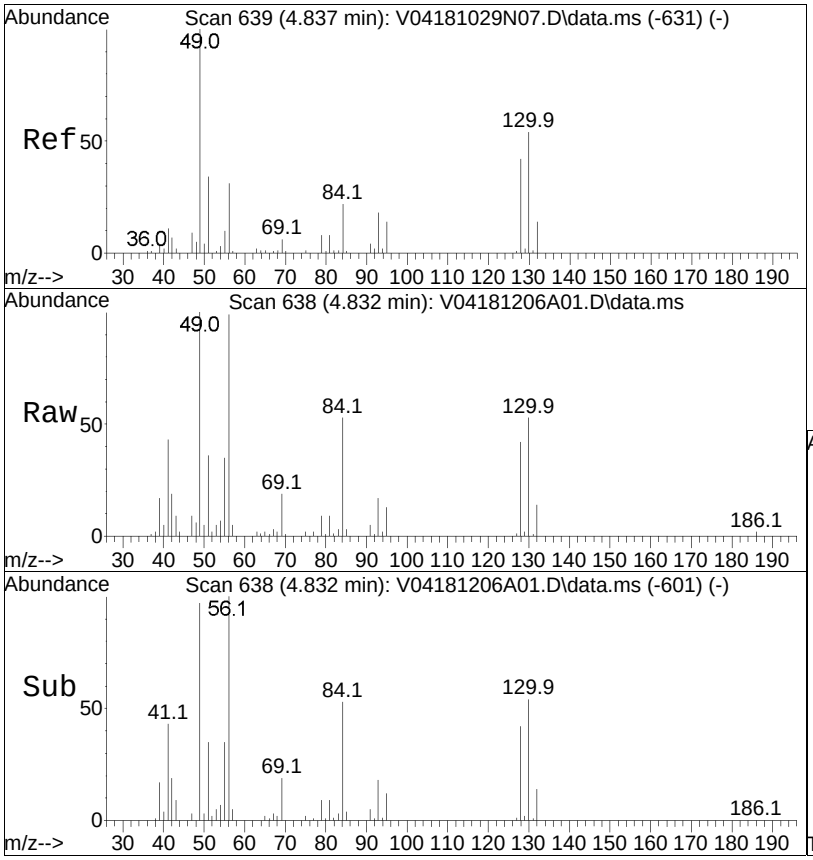


#28
cis-1,2-Dichloroethene
Concen: 20.75 ug/L
RT: 4.643 min Scan# 602
Delta R.T. -0.005 min
Lab File: V04181206A01.D
Acq: 6 Dec 2018 6:44 am

Tgt Ion: 96 Resp: 39739

Ion	Ratio	Lower	Upper
96	100		
61	175.8	114.4	171.6#
98	62.3	51.3	76.9

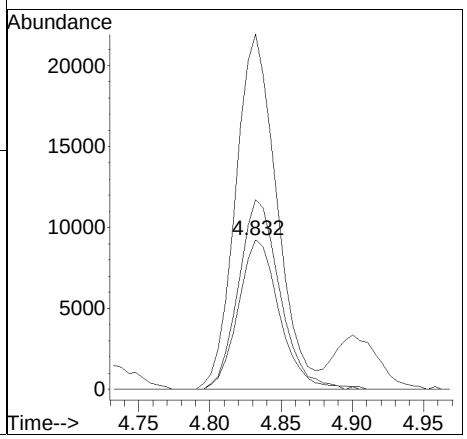


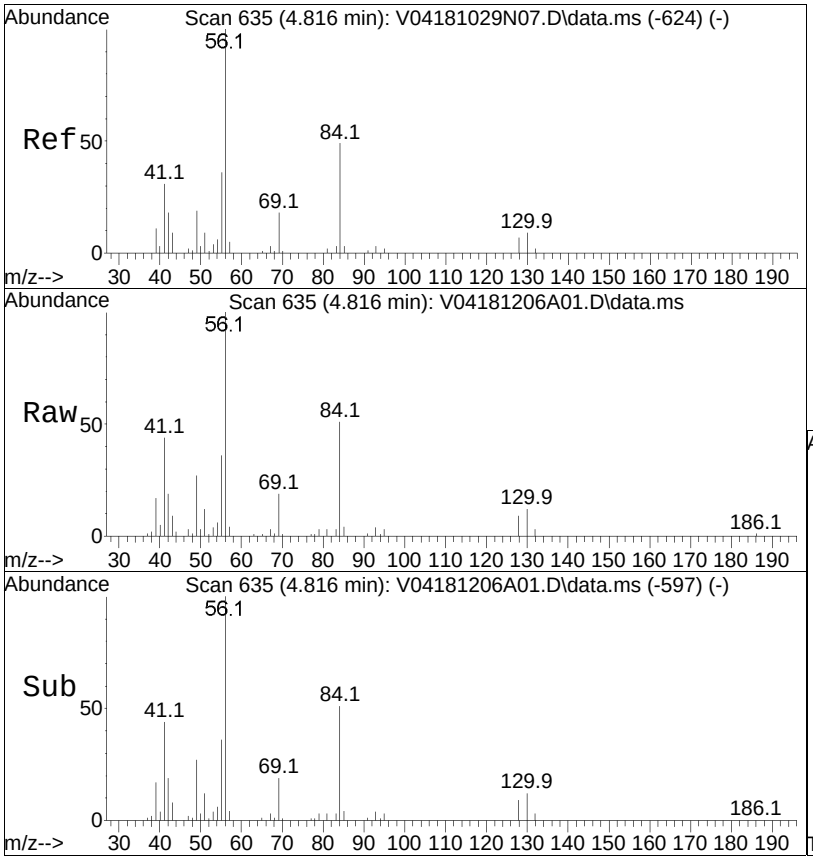


#30
Bromochloromethane
Concen: 20.24 ug/L
RT: 4.832 min Scan# 638
Delta R.T. -0.005 min
Lab File: V04181206A01.D
Acq: 6 Dec 2018 6:44 am

Tgt Ion:128 Resp: 18571

Ion	Ratio	Lower	Upper
128	100		
49	237.1	136.8	205.2#
130	128.1	102.6	153.8

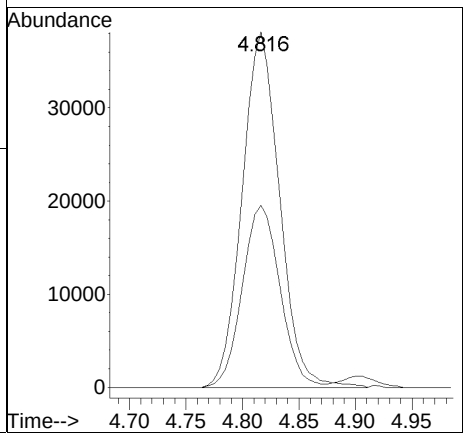


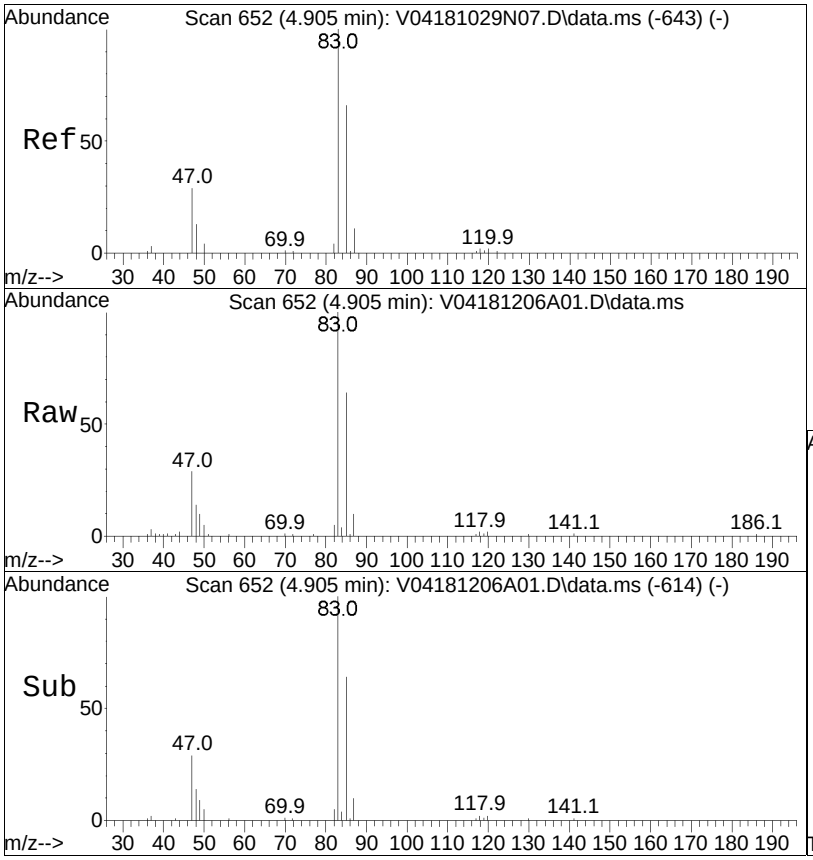


#31
Cyclohexane
Concen: 21.13 ug/L
RT: 4.816 min Scan# 635
Delta R.T. 0.000 min
Lab File: V04181206A01.D
Acq: 6 Dec 2018 6:44 am

Tgt Ion: 56 Resp: 87920

Ion	Ratio	Lower	Upper
56	100		
84	51.6	48.2	100.2

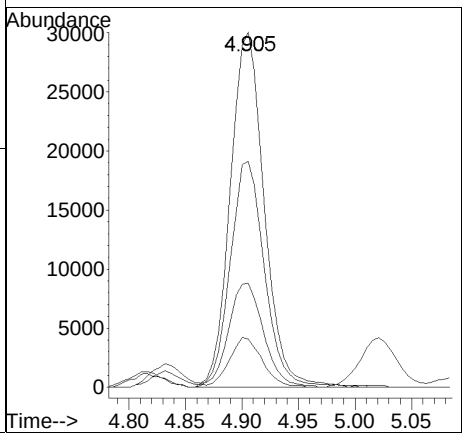


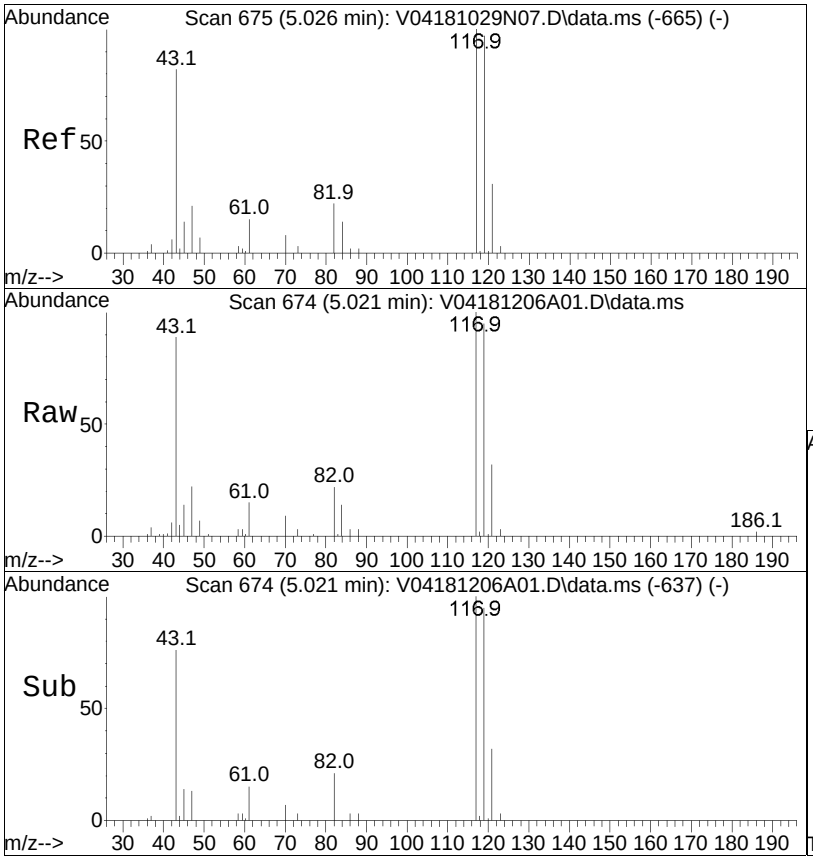


#32
Chloroform
Concen: 20.23 ug/L
RT: 4.905 min Scan# 652
Delta R.T. 0.000 min
Lab File: V04181206A01.D
Acq: 6 Dec 2018 6:44 am

Tgt Ion: 83 Resp: 62984

Ion	Ratio	Lower	Upper
83	100		
85	64.4	41.9	87.1
47	30.3	16.7	34.7
48	13.6	7.9	16.3

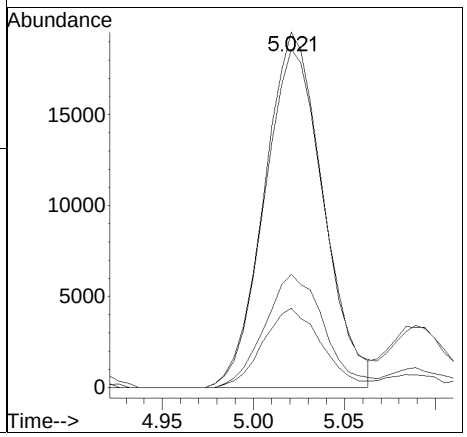


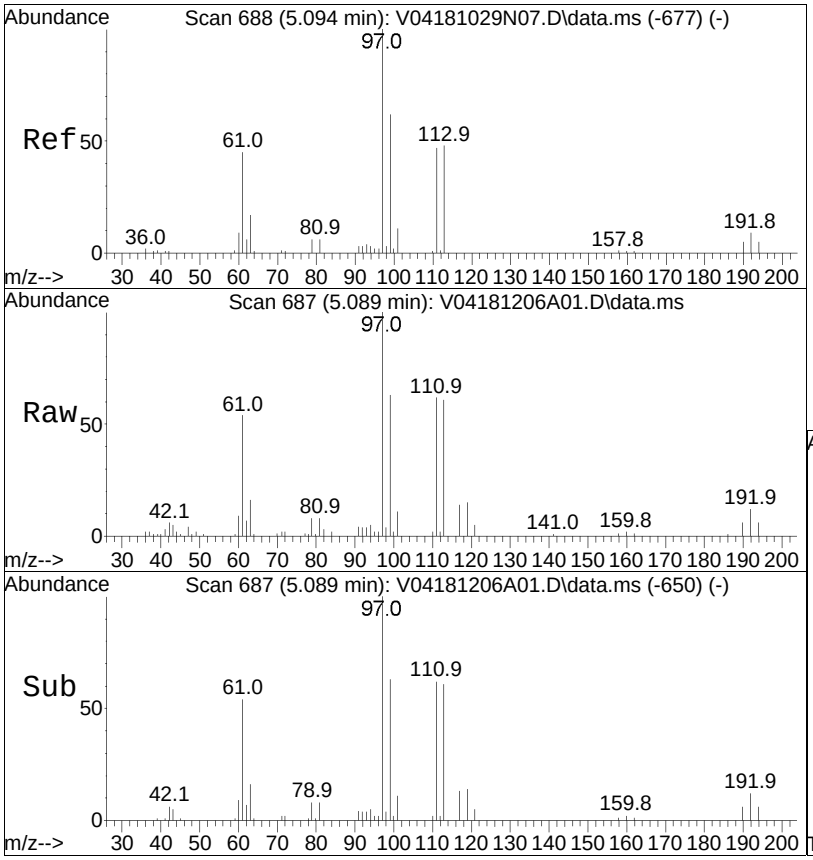


#34
Carbon tetrachloride
Concen: 20.46 ug/L
RT: 5.021 min Scan# 674
Delta R.T. -0.005 min
Lab File: V04181206A01.D
Acq: 6 Dec 2018 6:44 am

Tgt Ion:117 Resp: 43732

Ion	Ratio	Lower	Upper
117	100		
119	97.4	62.9	130.7
121	32.3	20.2	42.0
82	22.2	14.9	30.9

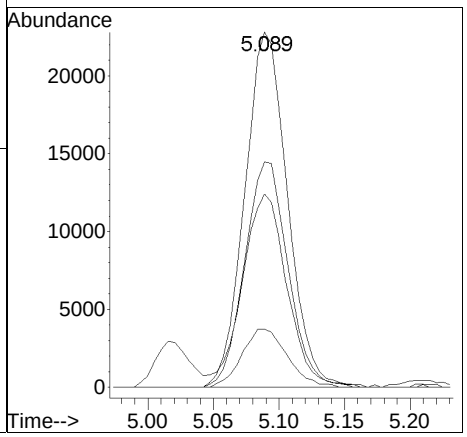


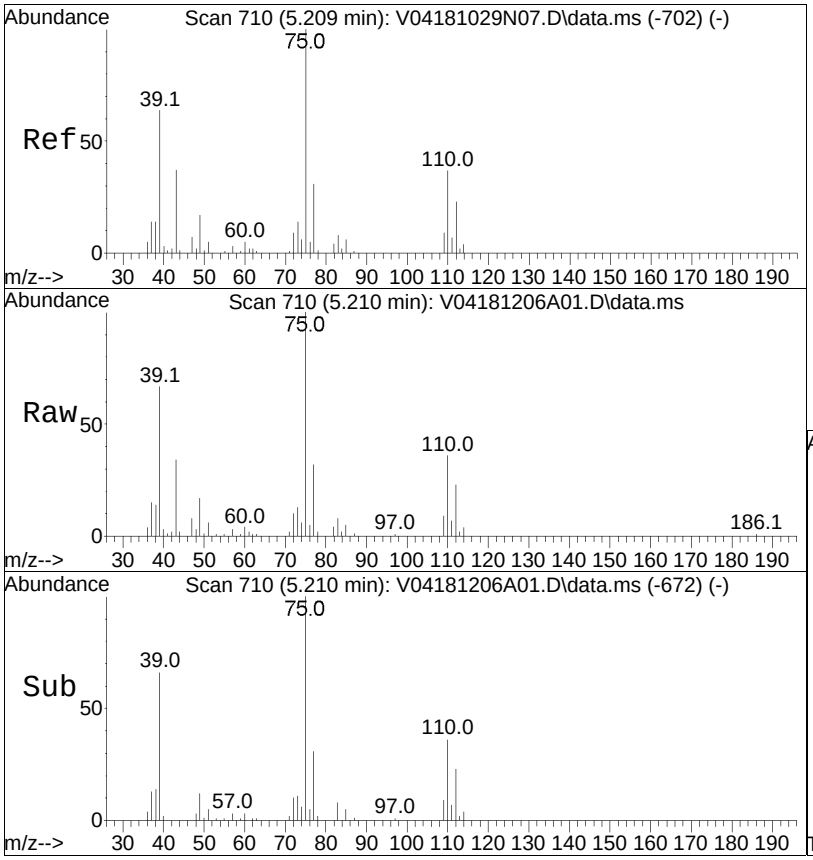


#37
1,1,1-Trichloroethane
Concen: 20.59 ug/L
RT: 5.089 min Scan# 687
Delta R.T. -0.005 min
Lab File: V04181206A01.D
Acq: 6 Dec 2018 6:44 am

Tgt Ion: 97 Resp: 51777

Ion	Ratio	Lower	Upper
97	100		
99	64.4	41.7	86.7
61	56.6	30.9	64.3
63	17.5	9.6	20.0

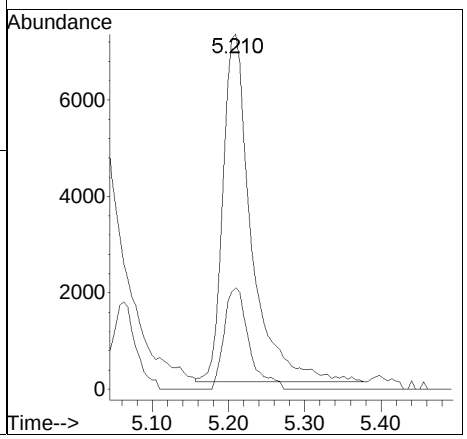


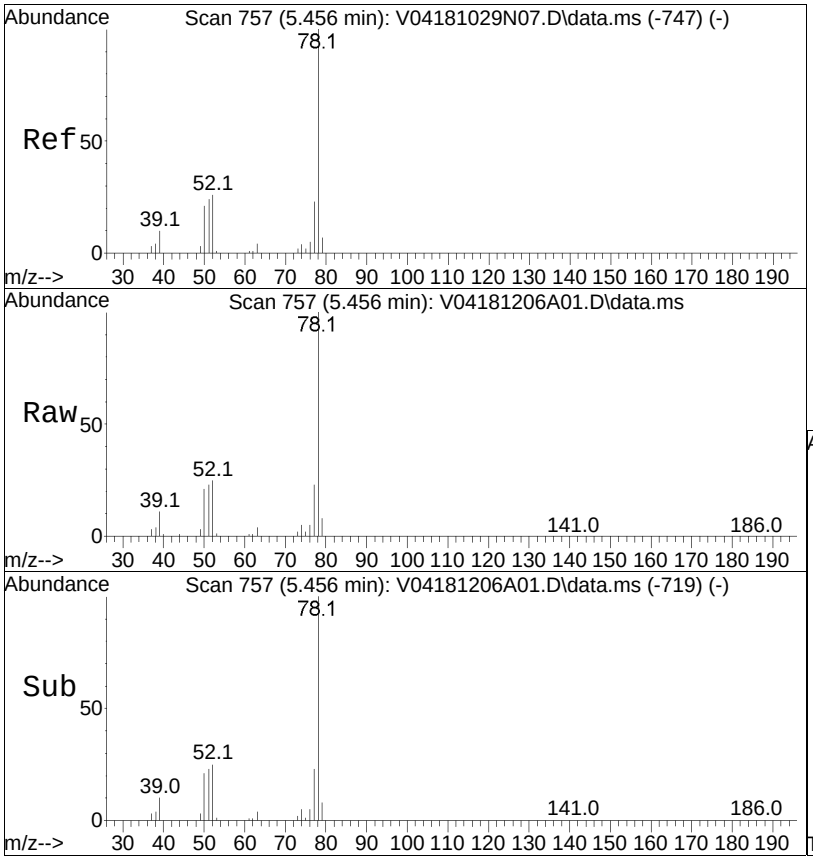


#39
2-Butanone
Concen: 18.93 ug/L
RT: 5.210 min Scan# 710
Delta R.T. 0.001 min
Lab File: V04181206A01.D
Acq: 6 Dec 2018 6:44 am

Tgt Ion: 43 Resp: 18730

Ion	Ratio	Lower	Upper
43	100		
72	25.5	25.8	38.8#

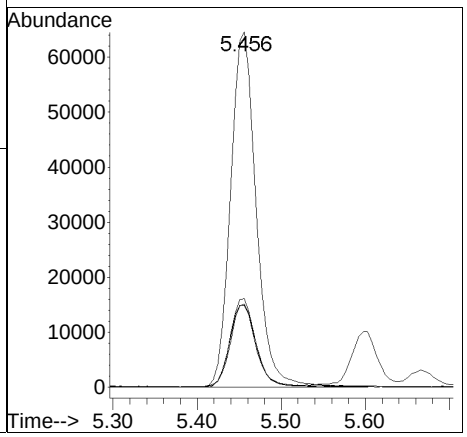


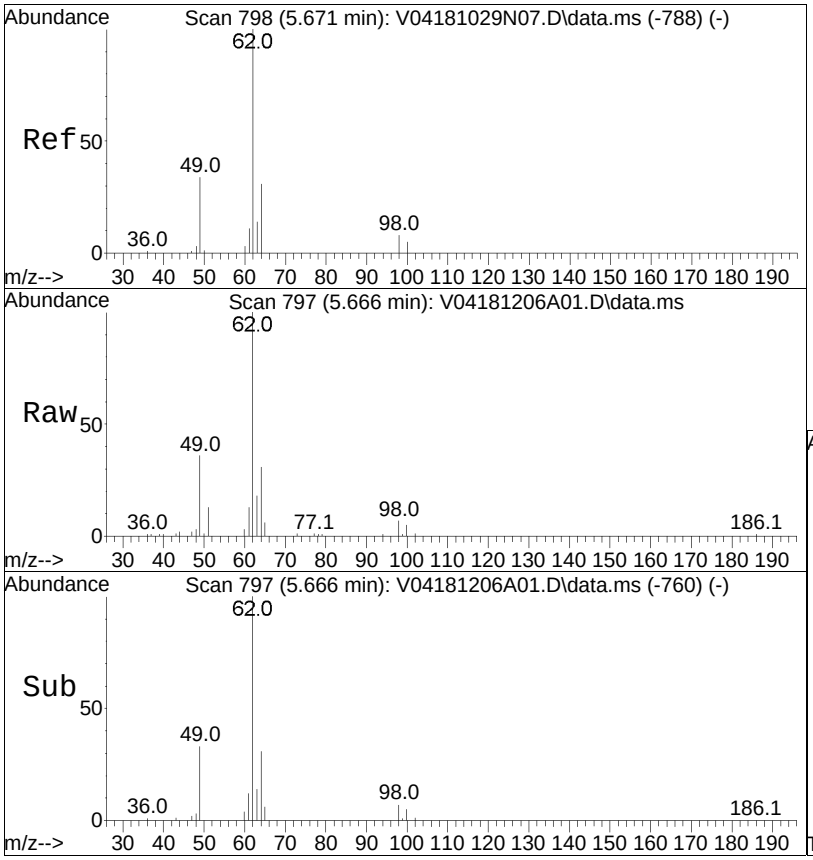


#41
Benzene
Concen: 20.13 ug/L
RT: 5.456 min Scan# 757
Delta R.T. -0.000 min
Lab File: V04181206A01.D
Acq: 6 Dec 2018 6:44 am

Tgt Ion: 78 Resp: 137698

Ion	Ratio	Lower	Upper
78	100		
77	23.1	15.1	31.3
51	24.2	12.2	25.4
52	24.9	11.9	24.7#

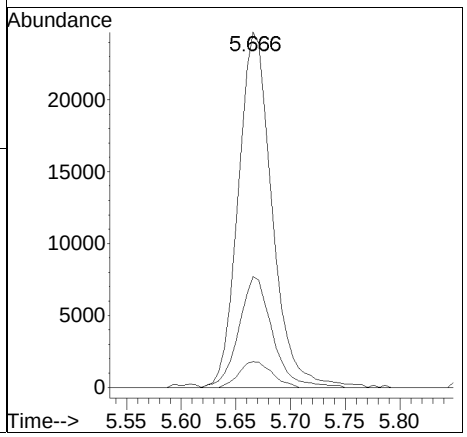


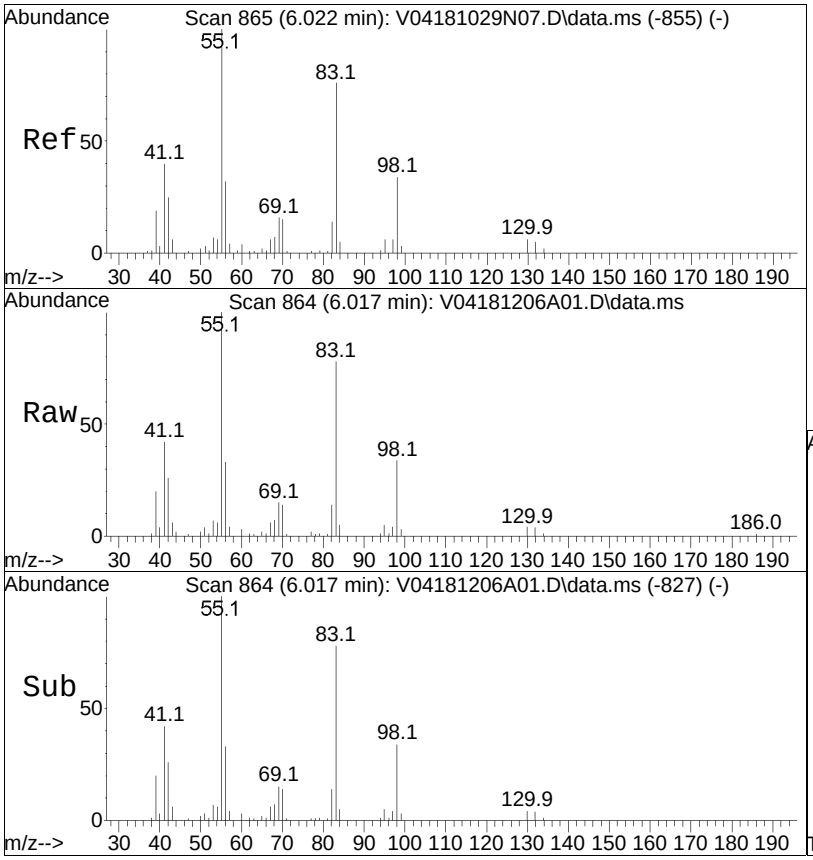


#44
1,2-Dichloroethane
Concen: 19.58 ug/L
RT: 5.666 min Scan# 797
Delta R.T. -0.005 min
Lab File: V04181206A01.D
Acq: 6 Dec 2018 6:44 am

Tgt Ion: 62 Resp: 53206

Ion	Ratio	Lower	Upper
62	100		
64	31.0	11.3	51.3
98	7.1	0.0	27.5

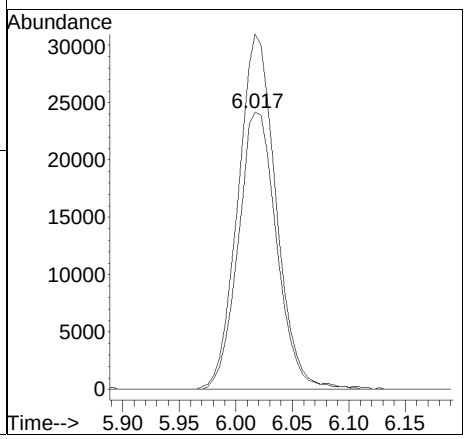


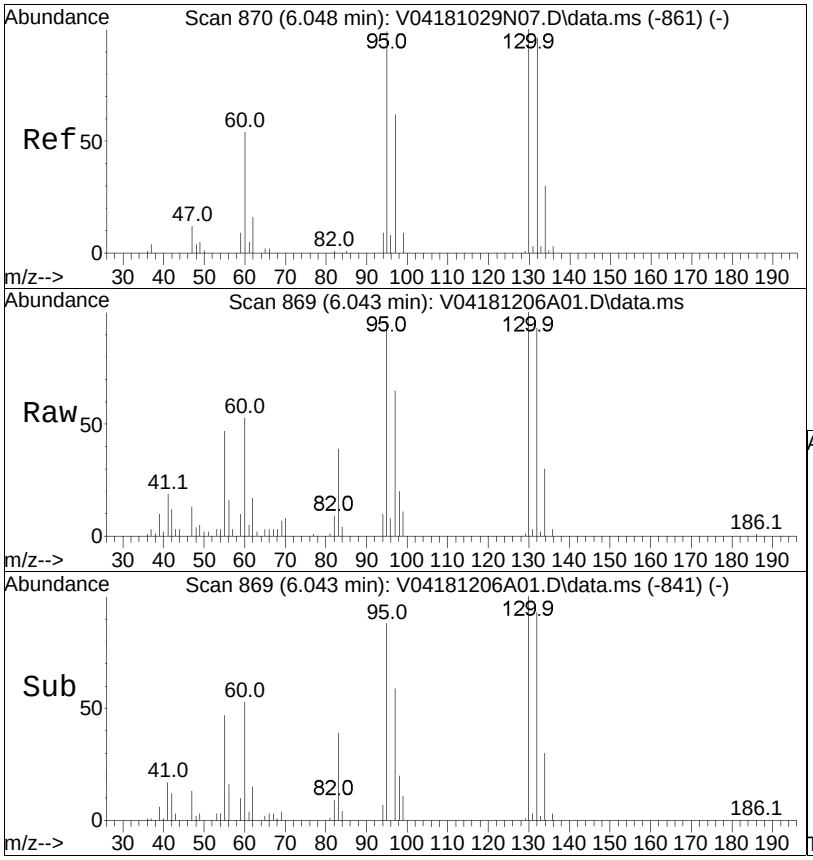


#47
Methyl cyclohexane
Concen: 22.00 ug/L
RT: 6.017 min Scan# 864
Delta R.T. -0.005 min
Lab File: V04181206A01.D
Acq: 6 Dec 2018 6:44 am

Tgt Ion: 83 Resp: 57178

Ion	Ratio	Lower	Upper
83	100		
55	126.9	73.0	109.4#

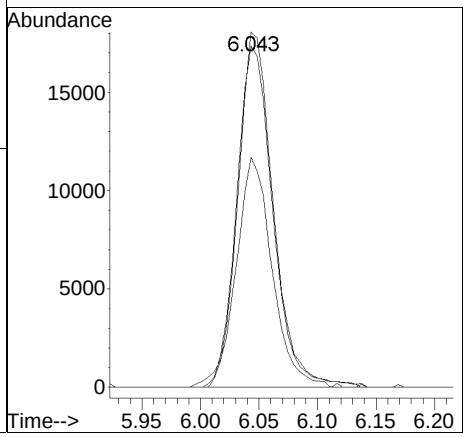


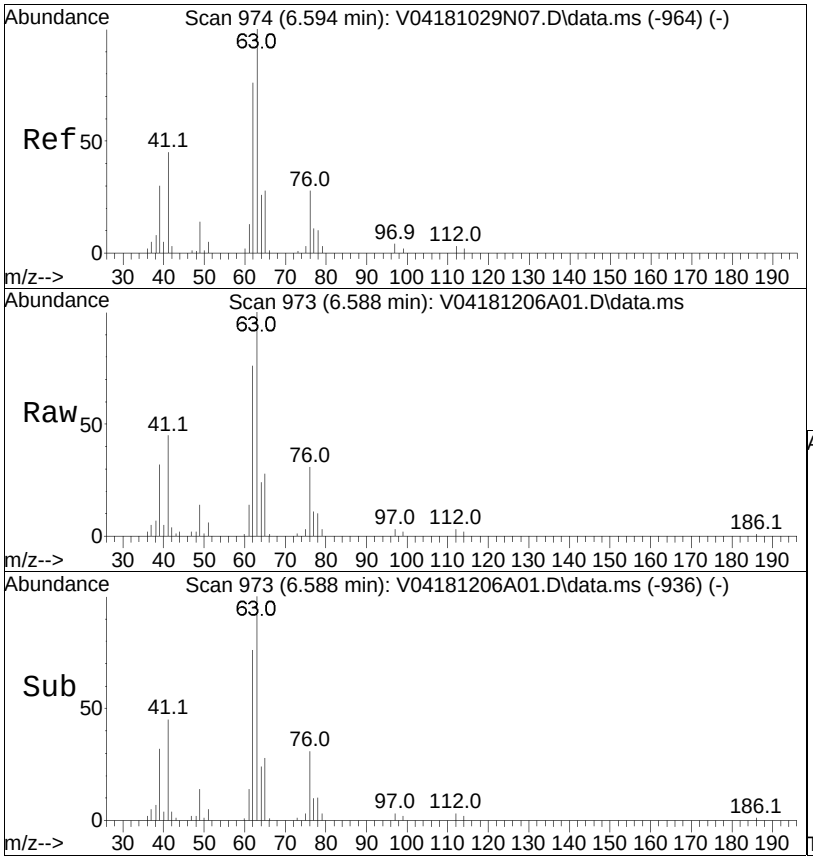


#48
Trichloroethene
Concen: 20.61 ug/L
RT: 6.043 min Scan# 869
Delta R.T. -0.005 min
Lab File: V04181206A01.D
Acq: 6 Dec 2018 6:44 am

Tgt Ion: 95 Resp: 37478

Ion	Ratio	Lower	Upper
95	100		
97	67.3	53.9	80.9
130	101.9	83.1	124.7

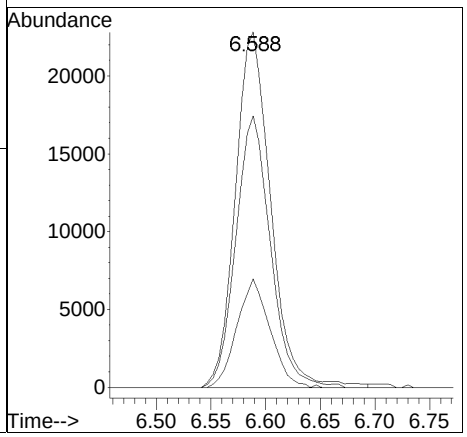


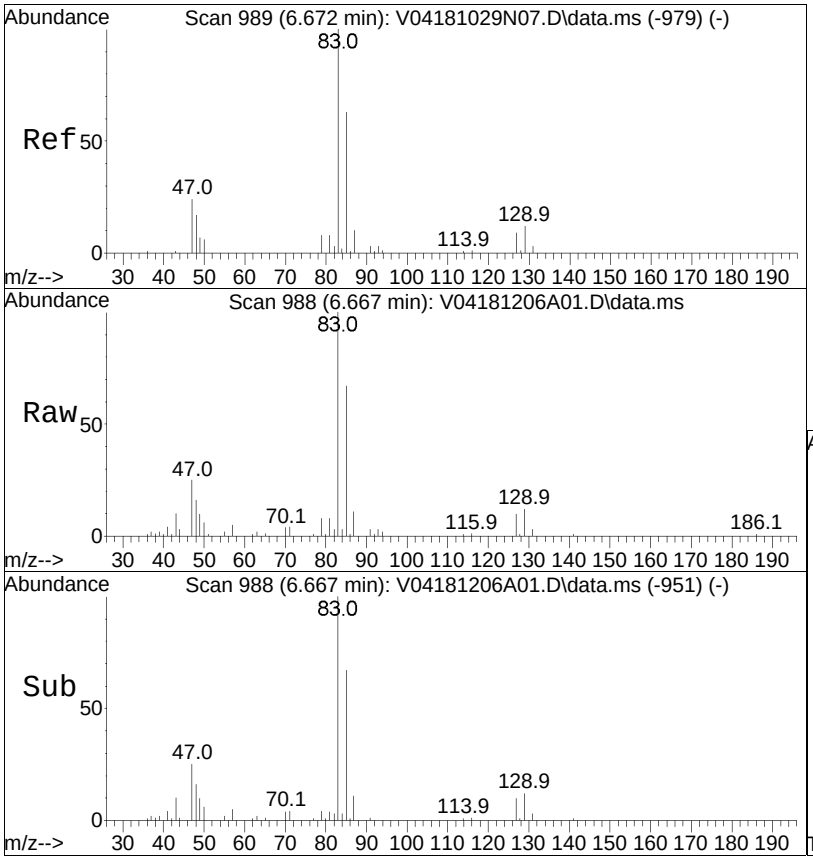


#51
1,2-Dichloropropane
Concen: 19.90 ug/L
RT: 6.588 min Scan# 973
Delta R.T. -0.006 min
Lab File: V04181206A01.D
Acq: 6 Dec 2018 6:44 am

Tgt Ion: 63 Resp: 51307

Ion	Ratio	Lower	Upper
63	100		
62	74.9	58.2	87.2
76	28.6	31.4	47.2#

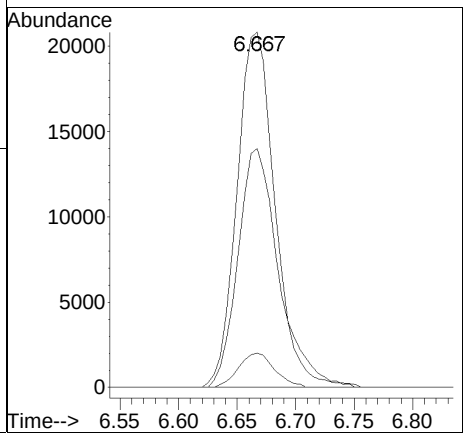


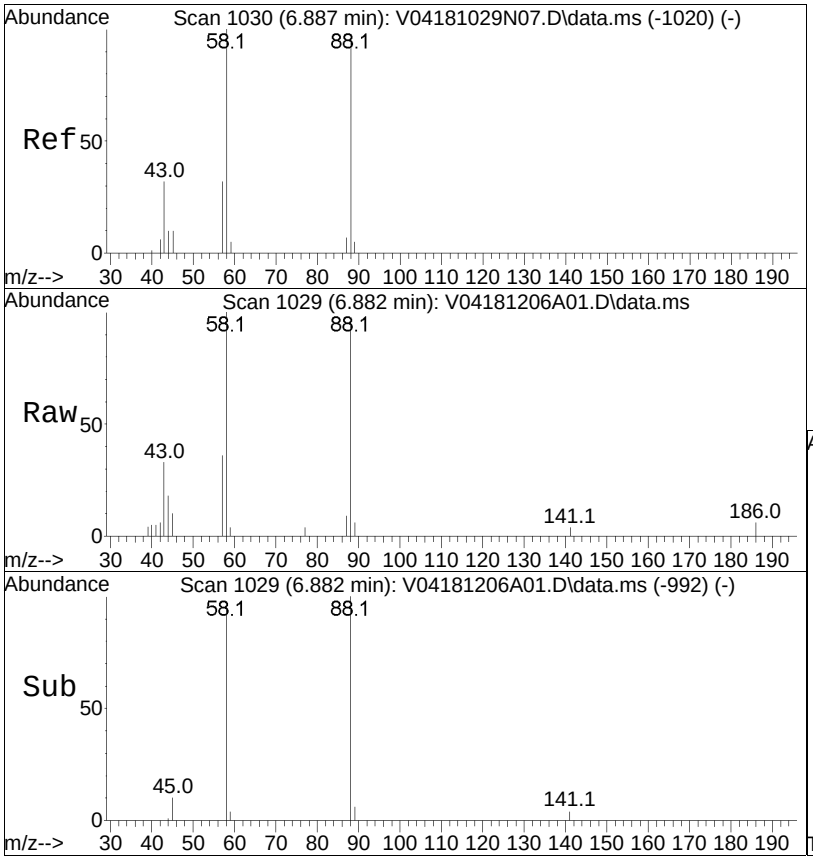


#54
Bromodichloromethane
Concen: 20.34 ug/L
RT: 6.667 min Scan# 988
Delta R.T. -0.005 min
Lab File: V04181206A01.D
Acq: 6 Dec 2018 6:44 am

Tgt Ion: 83 Resp: 47188

Ion	Ratio	Lower	Upper
83	100		
85	72.0	51.2	76.8
127	9.2	7.3	10.9

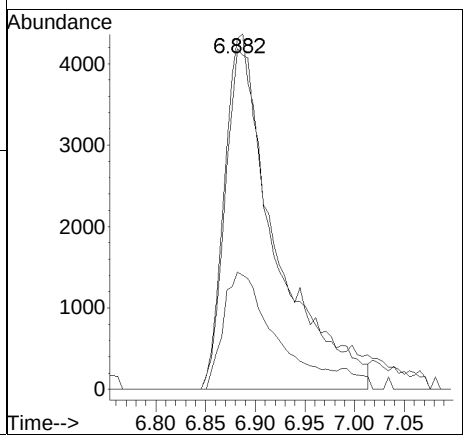


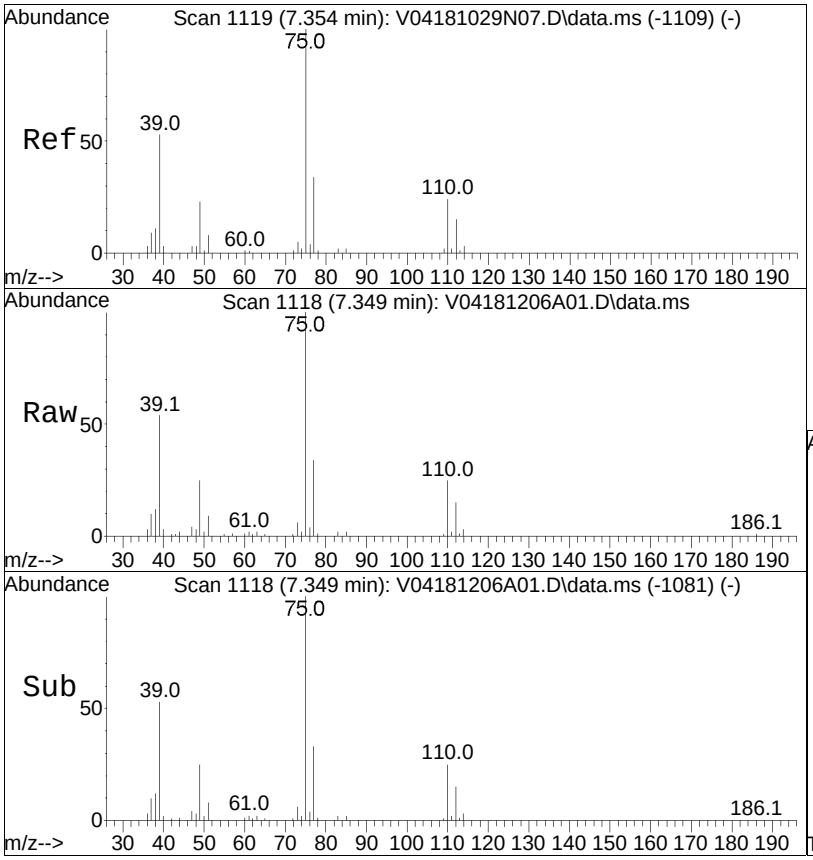


#57
1,4-Dioxane
Concen: 863.43 ug/L
RT: 6.882 min Scan# 1029
Delta R.T. -0.005 min
Lab File: V04181206A01.D
Acq: 6 Dec 2018 6:44 am

Tgt Ion: 88 Resp: 15085

Ion	Ratio	Lower	Upper
88	100		
58	99.5	57.1	85.7#
43	34.9	22.9	34.3#

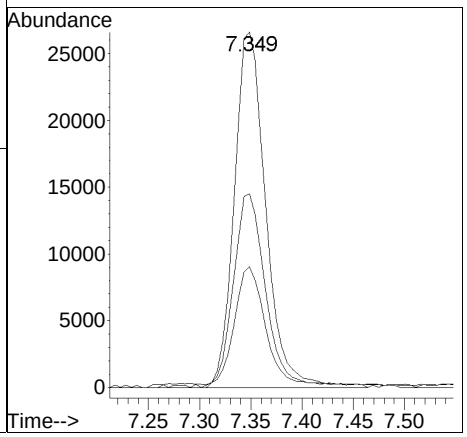


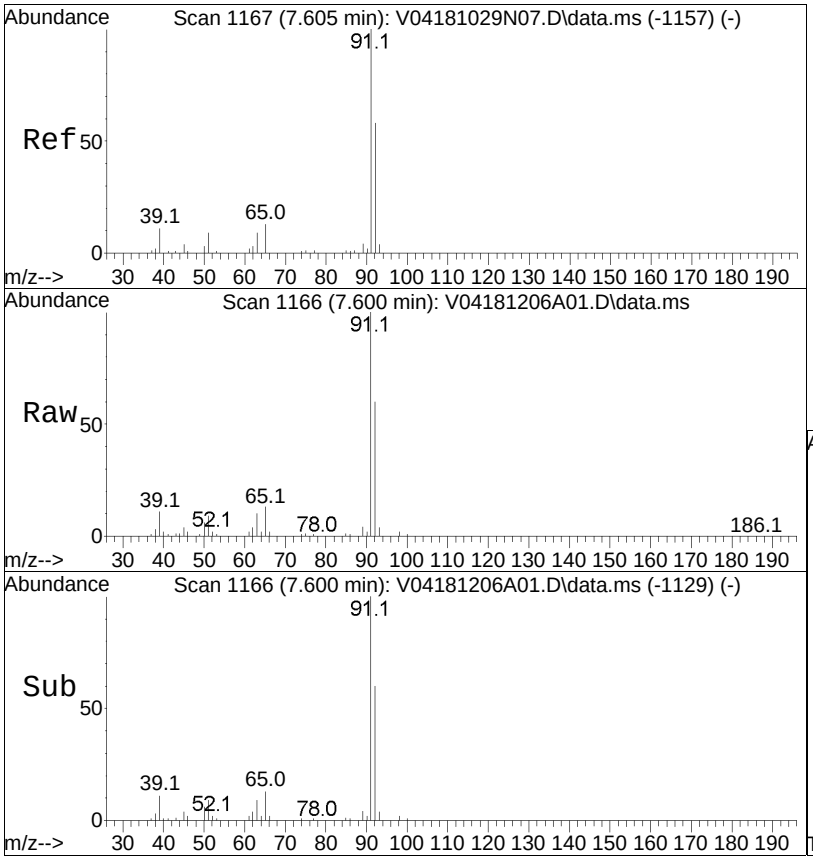


#58
cis-1,3-Dichloropropene
Concen: 21.49 ug/L
RT: 7.349 min Scan# 1118
Delta R.T. -0.005 min
Lab File: V04181206A01.D
Acq: 6 Dec 2018 6:44 am

Tgt Ion: 75 Resp: 56906

Ion	Ratio	Lower	Upper
75	100		
77	34.9	25.3	37.9
39	53.6	40.2	60.2

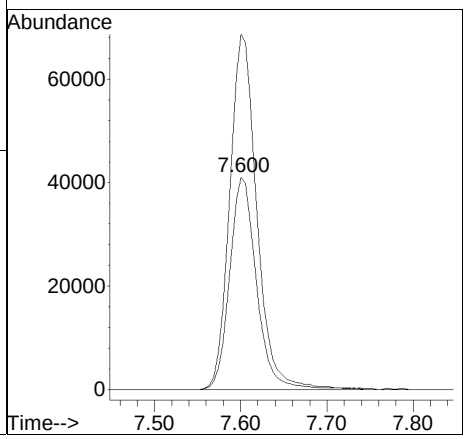


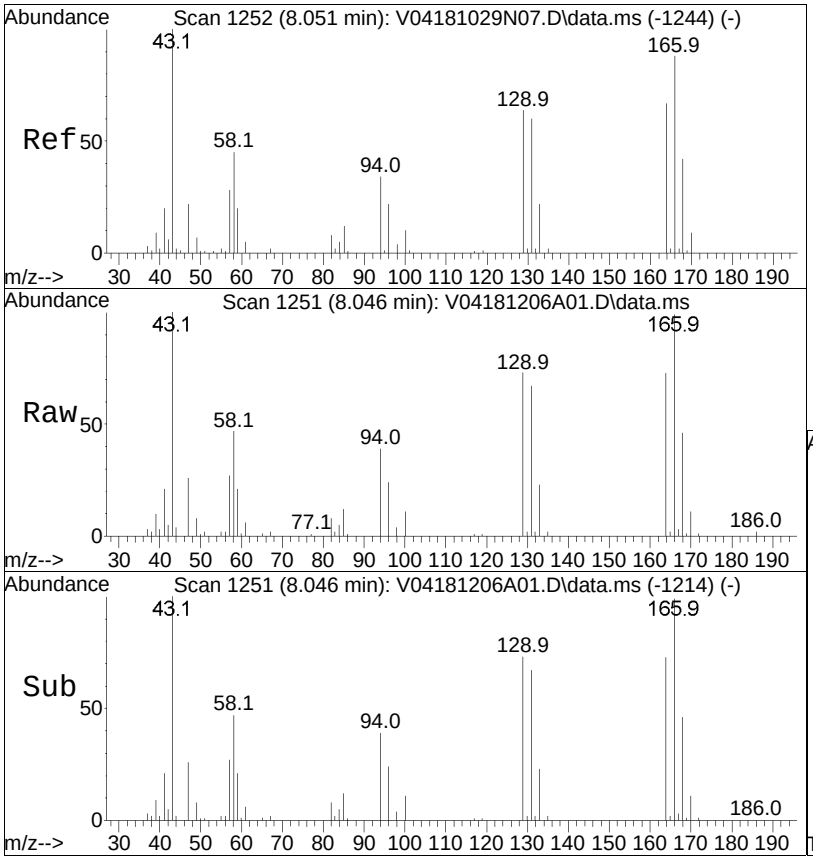


#61
Toluene
Concen: 19.80 ug/L
RT: 7.600 min Scan# 1166
Delta R.T. -0.005 min
Lab File: V04181206A01.D
Acq: 6 Dec 2018 6:44 am

Tgt Ion: 92 Resp: 88664

Ion	Ratio	Lower	Upper
92	100		
91	169.3	135.8	203.6

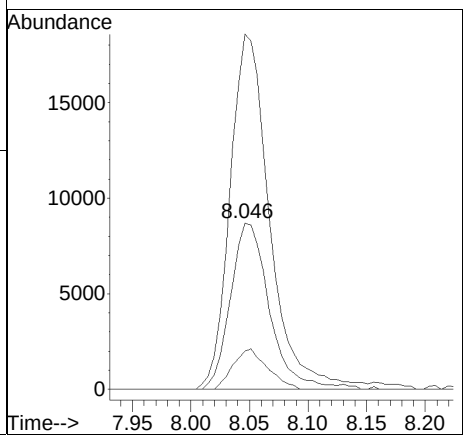


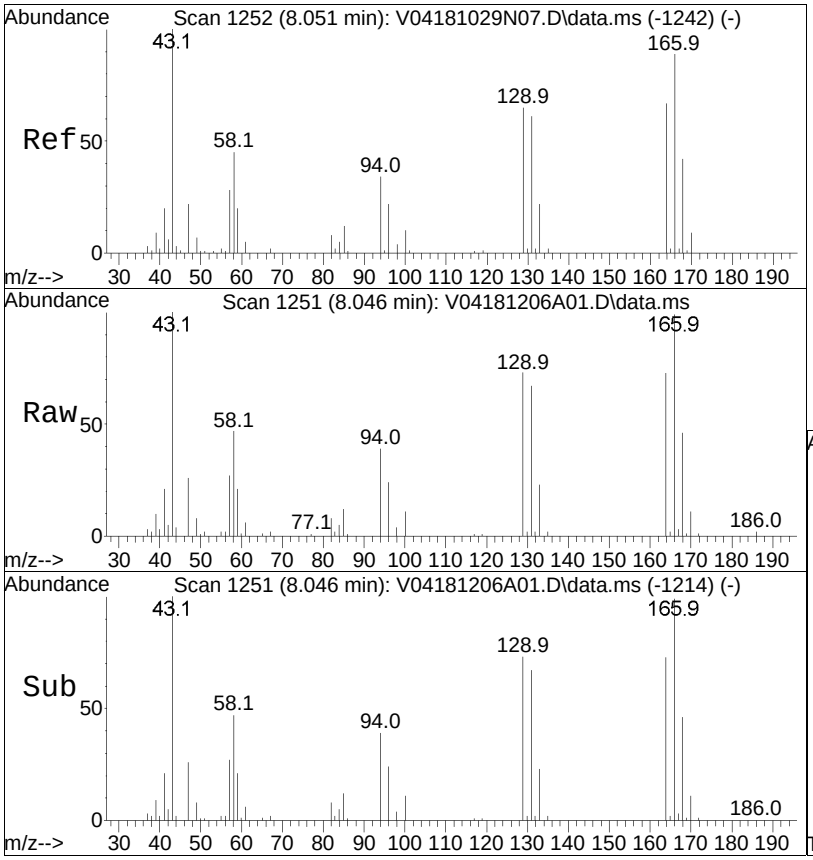


#62
4-Methyl-2-pentanone
Concen: 20.27 ug/L
RT: 8.046 min Scan# 1251
Delta R.T. -0.005 min
Lab File: V04181206A01.D
Acq: 6 Dec 2018 6:44 am

Tgt Ion: 58 Resp: 20229

Ion	Ratio	Lower	Upper
58	100		
100	21.6	25.6	38.4#
43	216.6	195.7	293.5

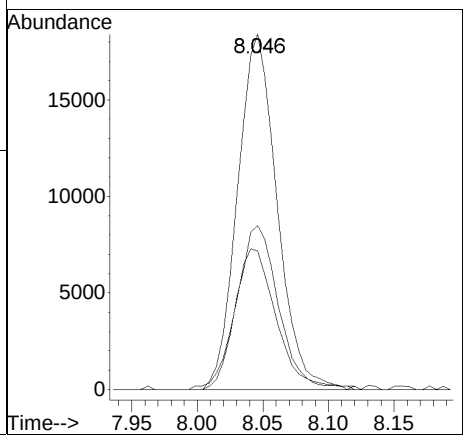


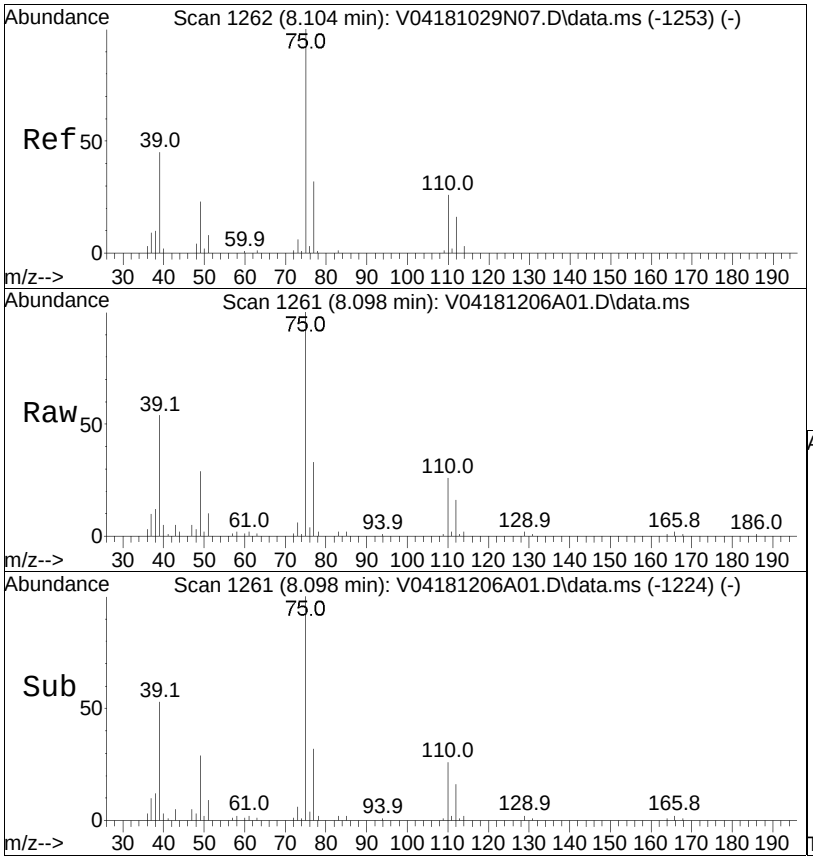


#63
Tetrachloroethene
Concen: 20.90 ug/L
RT: 8.046 min Scan# 1251
Delta R.T. -0.005 min
Lab File: V04181206A01.D
Acq: 6 Dec 2018 6:44 am

Tgt Ion:166 Resp: 38643

Ion	Ratio	Lower	Upper
166	100		
168	47.8	27.6	67.6
94	42.7	20.9	60.9

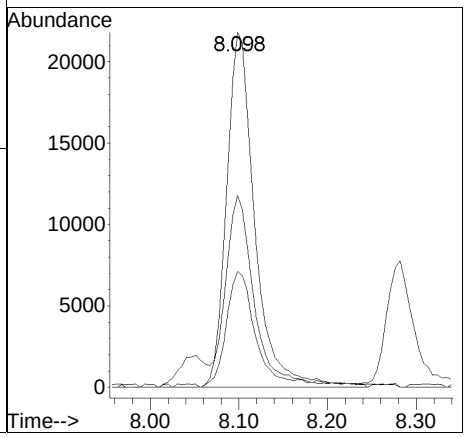


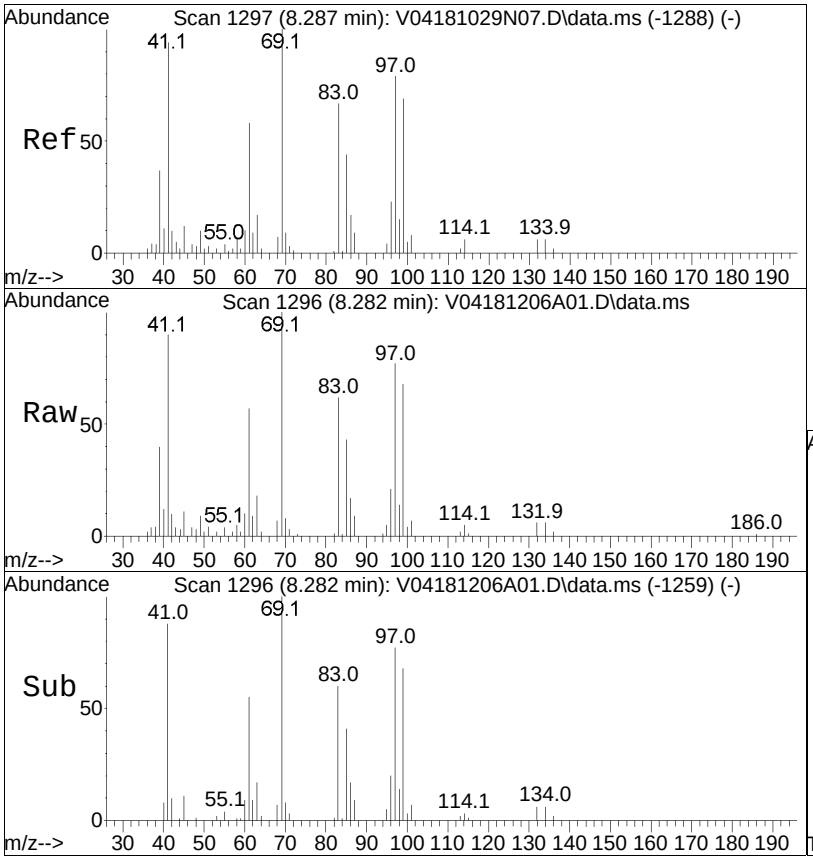


#65
trans-1,3-Dichloropropene
Concen: 19.02 ug/L
RT: 8.098 min Scan# 1261
Delta R.T. -0.006 min
Lab File: V04181206A01.D
Acq: 6 Dec 2018 6:44 am

Tgt Ion: 75 Resp: 48519

Ion	Ratio	Lower	Upper
75	100		
77	34.3	12.0	52.0
39	51.0	29.3	69.3

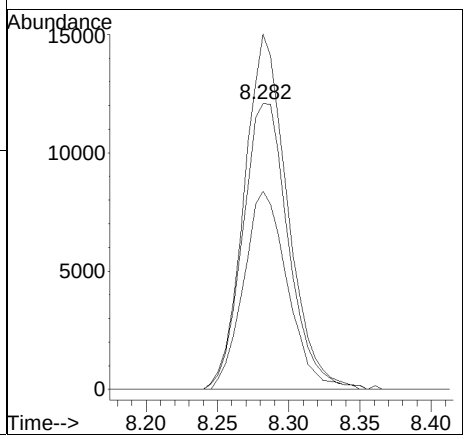


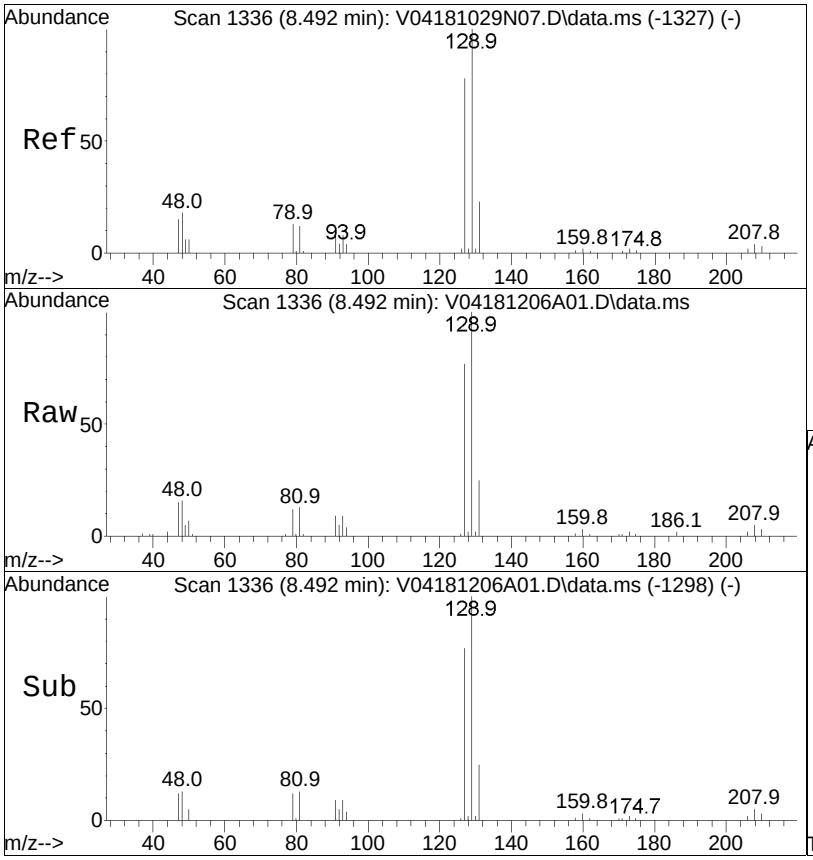


#68
1,1,2-Trichloroethane
Concen: 19.71 ug/L
RT: 8.282 min Scan# 1296
Delta R.T. -0.005 min
Lab File: V04181206A01.D
Acq: 6 Dec 2018 6:44 am

Tgt Ion: 83 Resp: 26946

Ion	Ratio	Lower	Upper
83	100		
97	118.0	99.3	139.3
85	67.3	47.8	87.8

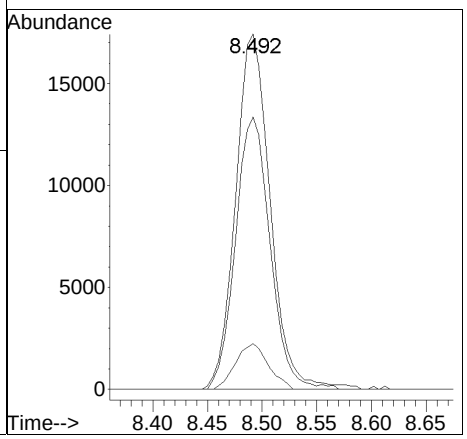


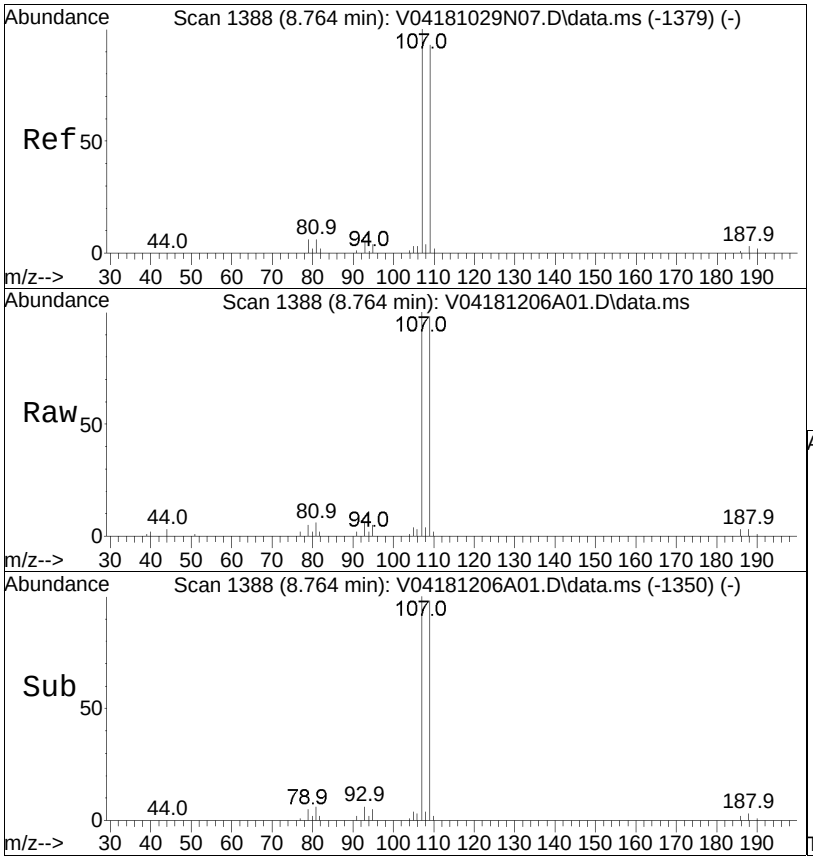


#69
Chlorodibromomethane
Concen: 19.38 ug/L
RT: 8.492 min Scan# 1336
Delta R.T. -0.000 min
Lab File: V04181206A01.D
Acq: 6 Dec 2018 6:44 am

Tgt Ion:129 Resp: 38492

Ion	Ratio	Lower	Upper
129	100		
81	12.2	0.0	34.6
127	76.7	56.9	96.9

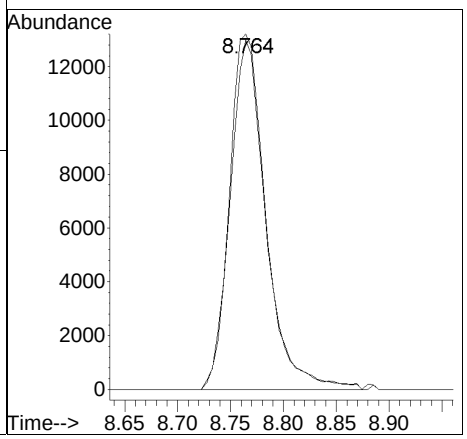


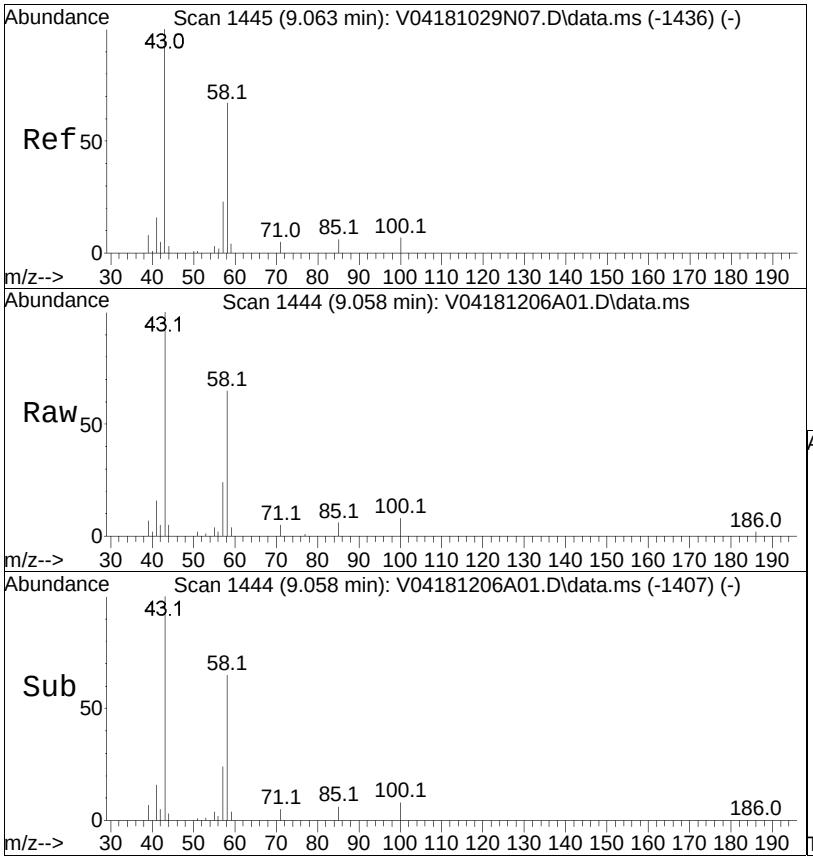


#71
1,2-Dibromoethane
Concen: 19.08 ug/L
RT: 8.764 min Scan# 1388
Delta R.T. 0.000 min
Lab File: V04181206A01.D
Acq: 6 Dec 2018 6:44 am

Tgt Ion:107 Resp: 31823

Ion	Ratio	Lower	Upper
107	100		
109	95.5	75.4	113.0

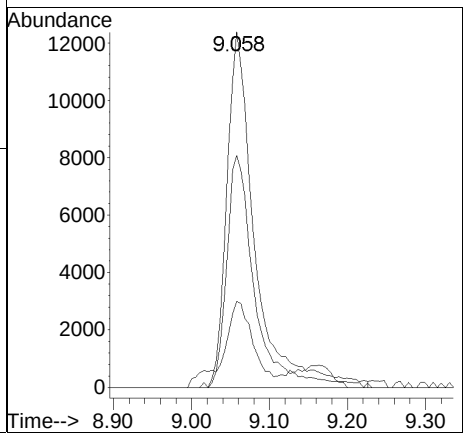


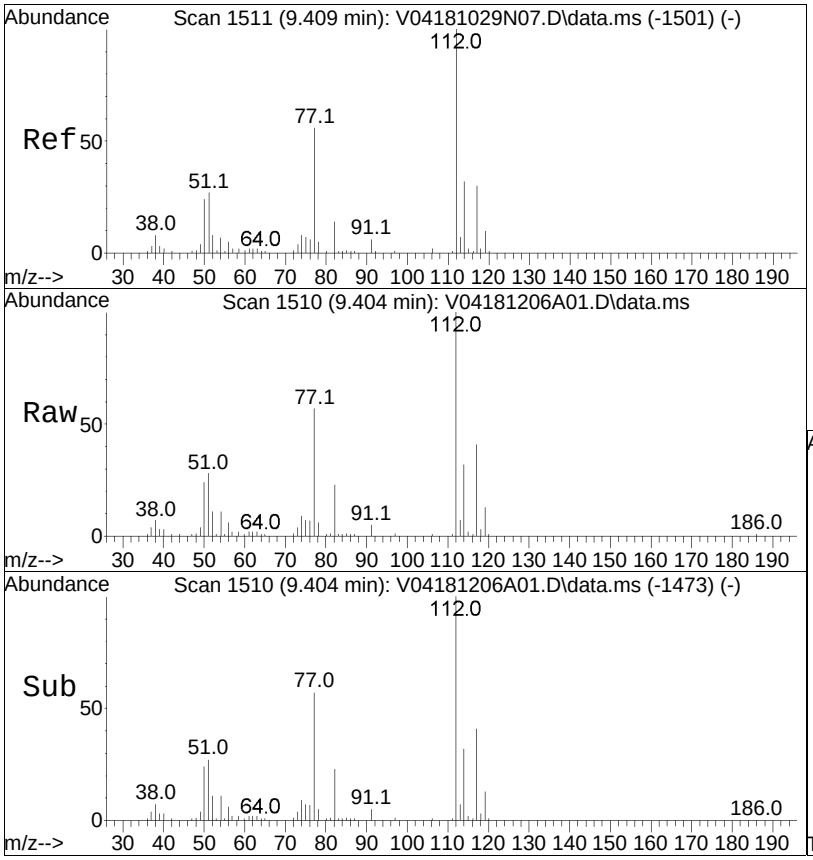


#72
2-Hexanone
Concen: 19.84 ug/L
RT: 9.058 min Scan# 1444
Delta R.T. -0.005 min
Lab File: V04181206A01.D
Acq: 6 Dec 2018 6:44 am

Tgt Ion: 43 Resp: 31092

Ion	Ratio	Lower	Upper
43	100		
58	64.0	44.7	67.1
57	26.1	15.4	23.0#

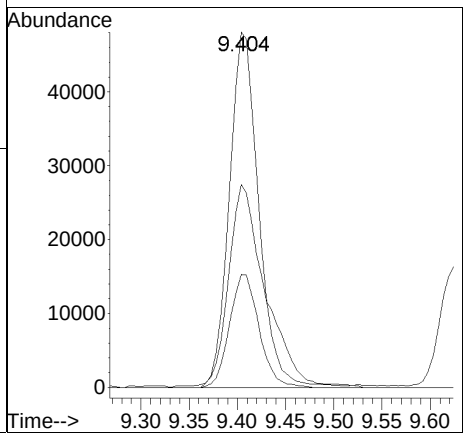


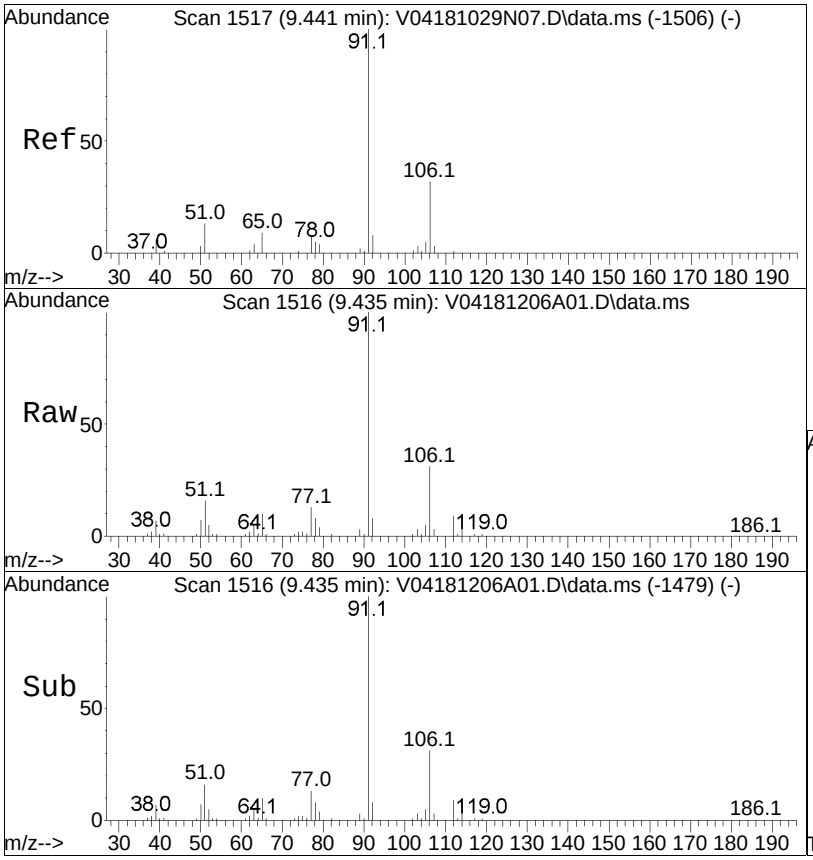


#73
Chlorobenzene
Concen: 19.74 ug/L
RT: 9.404 min Scan# 1510
Delta R.T. -0.005 min
Lab File: V04181206A01.D
Acq: 6 Dec 2018 6:44 am

Tgt Ion:112 Resp: 101949

Ion	Ratio	Lower	Upper
112	100		
77	71.8	55.3	82.9
114	31.9	25.5	38.3

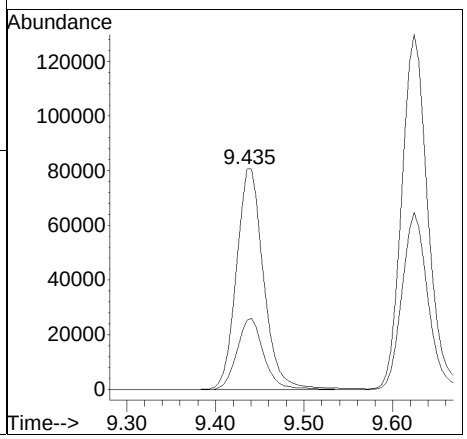


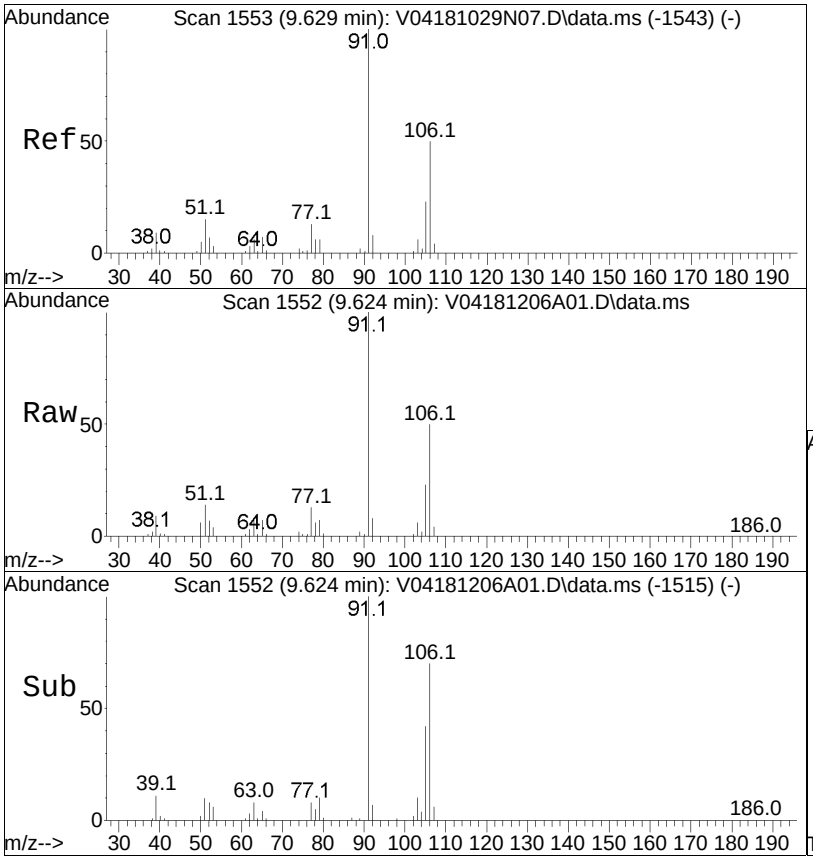


#74
Ethylbenzene
Concen: 20.14 ug/L
RT: 9.435 min Scan# 1516
Delta R.T. -0.006 min
Lab File: V04181206A01.D
Acq: 6 Dec 2018 6:44 am

Tgt Ion: 91 Resp: 172157

Ion	Ratio	Lower	Upper
91	100		
106	31.4	25.4	38.2

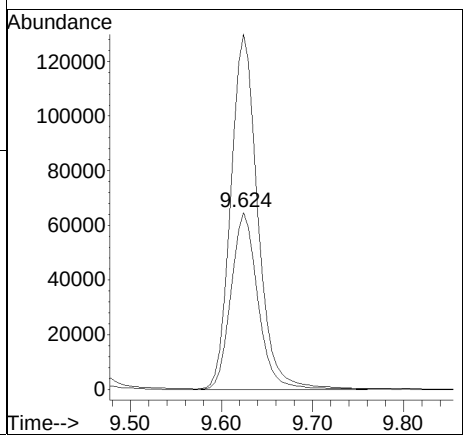


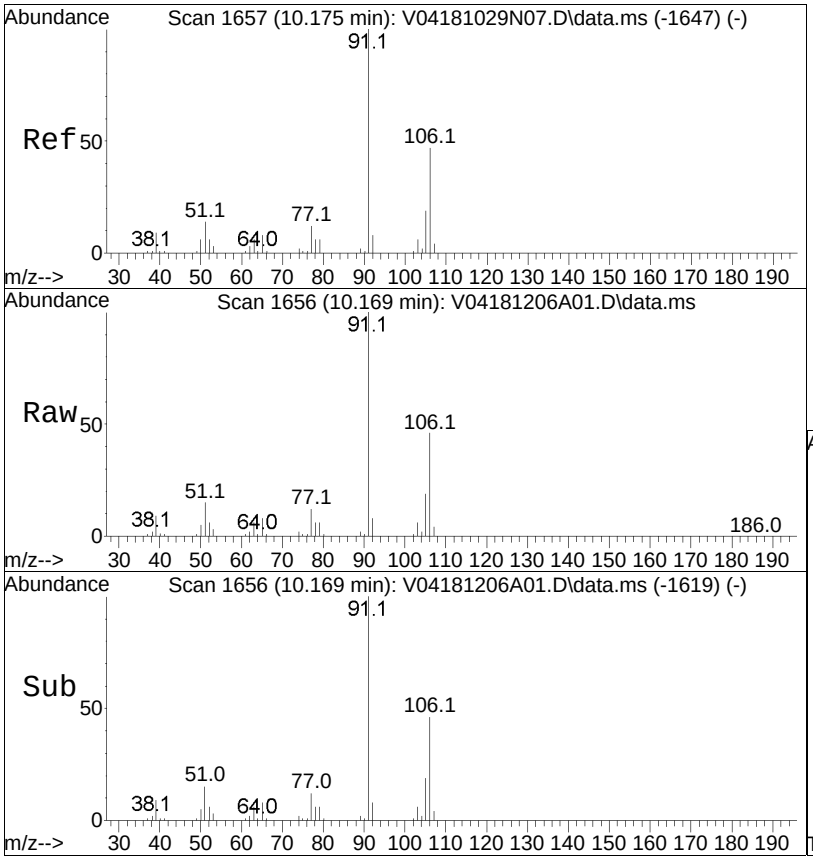


#76
p/m Xylene
Concen: 41.46 ug/L
RT: 9.624 min Scan# 1552
Delta R.T. -0.005 min
Lab File: V04181206A01.D
Acq: 6 Dec 2018 6:44 am

Tgt Ion:106 Resp: 133298

Ion	Ratio	Lower	Upper
106	100		
91	199.9	157.1	235.7

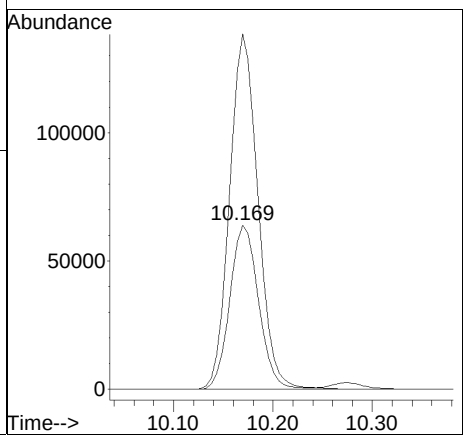


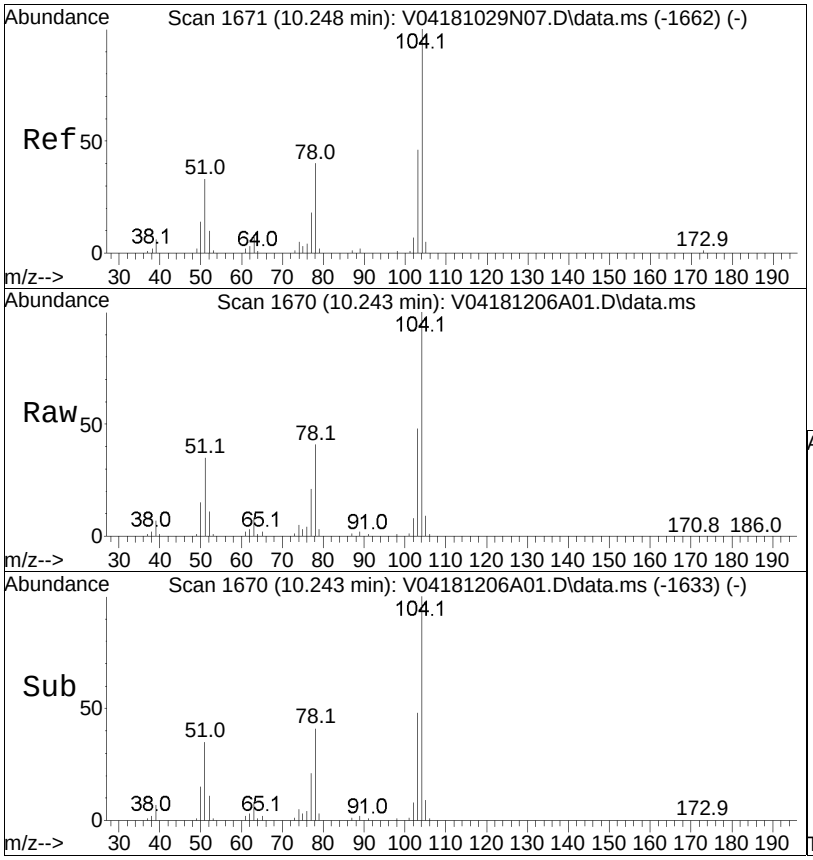


#77
o Xylene
Concen: 40.99 ug/L
RT: 10.169 min Scan# 1656
Delta R.T. -0.006 min
Lab File: V04181206A01.D
Acq: 6 Dec 2018 6:44 am

Tgt Ion:106 Resp: 129811

Ion	Ratio	Lower	Upper
106	100		
91	211.2	165.9	248.9

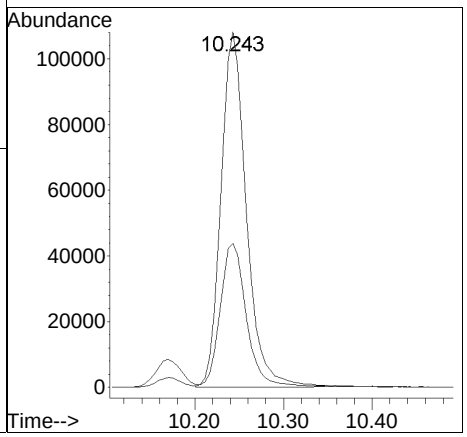


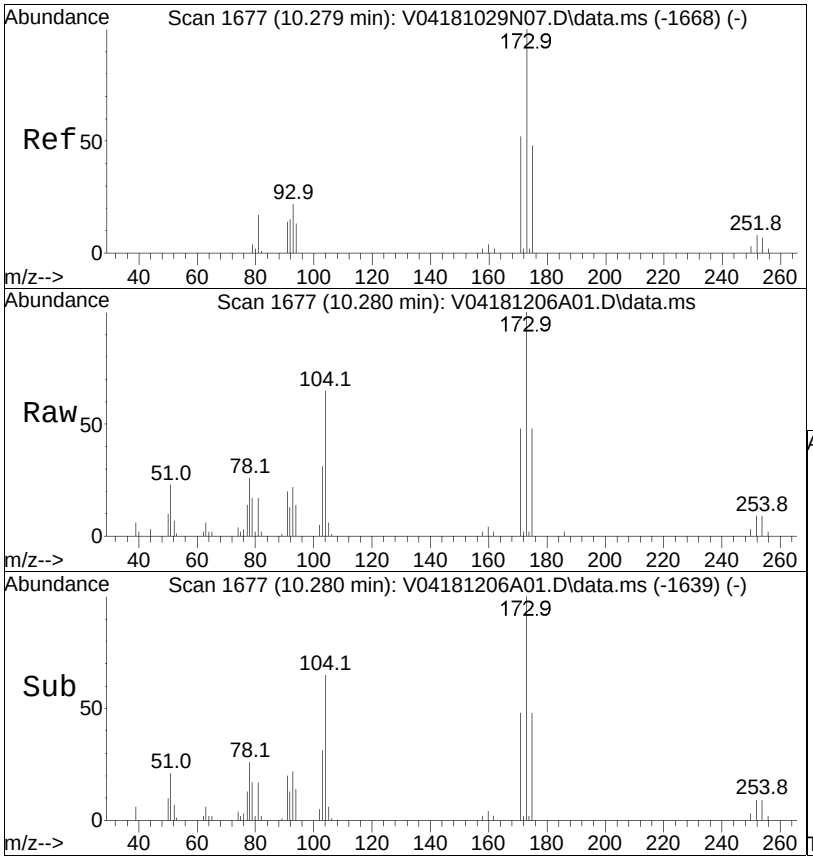


#78
Styrene
Concen: 41.54 ug/L
RT: 10.243 min Scan# 1670
Delta R.T. -0.005 min
Lab File: V04181206A01.D
Acq: 6 Dec 2018 6:44 am

Tgt Ion:104 Resp: 214885

Ion	Ratio	Lower	Upper
104	100		
78	41.7	33.0	49.4

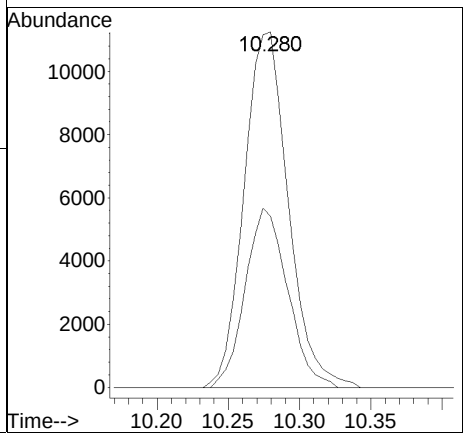


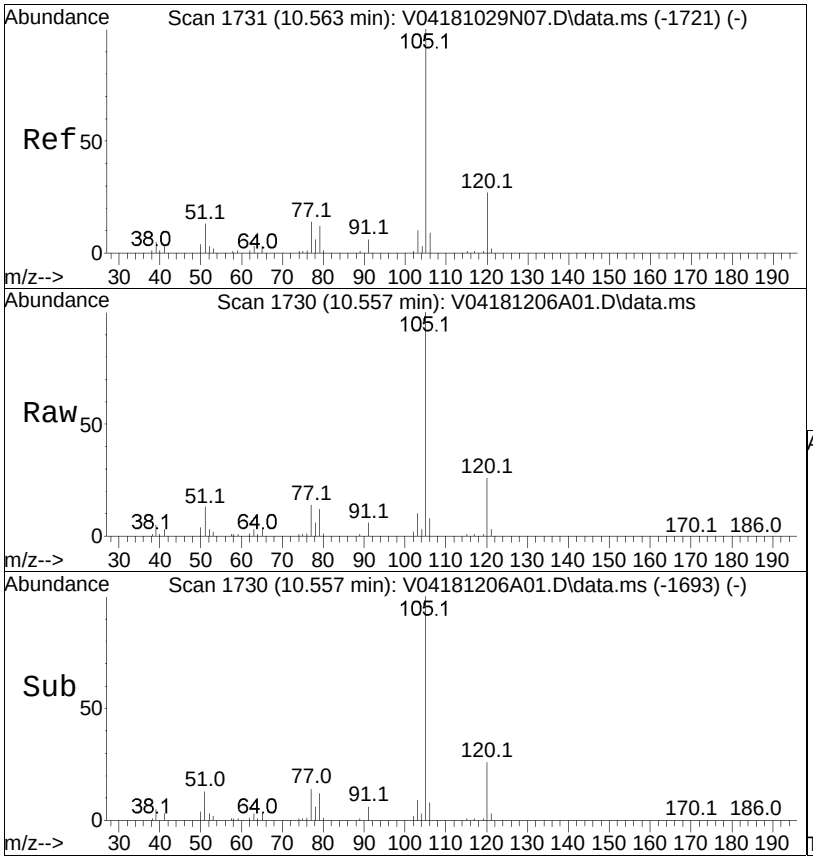


#80
Bromoform
Concen: 19.55 ug/L
RT: 10.280 min Scan# 1677
Delta R.T. 0.001 min
Lab File: V04181206A01.D
Acq: 6 Dec 2018 6:44 am

Tgt Ion:173 Resp: 24281

Ion	Ratio	Lower	Upper
173	100		
175	48.3	28.2	68.2

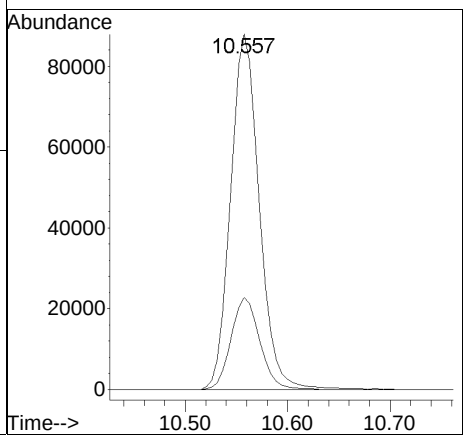


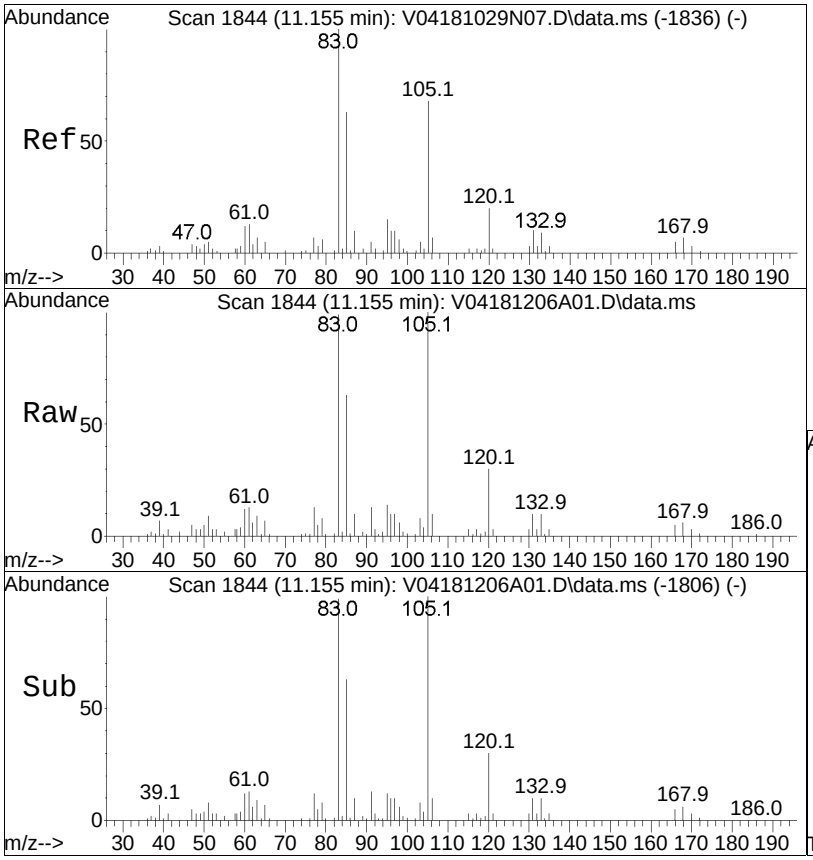


#82
Isopropylbenzene
Concen: 20.12 ug/L
RT: 10.557 min Scan# 1730
Delta R.T. -0.006 min
Lab File: V04181206A01.D
Acq: 6 Dec 2018 6:44 am

Tgt Ion:105 Resp: 170835

Ion	Ratio	Lower	Upper
105	100		
120	25.9	6.0	46.0

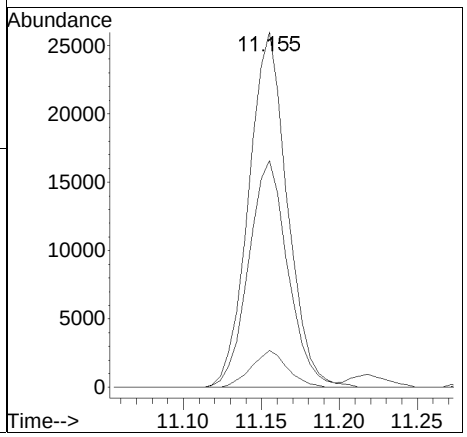


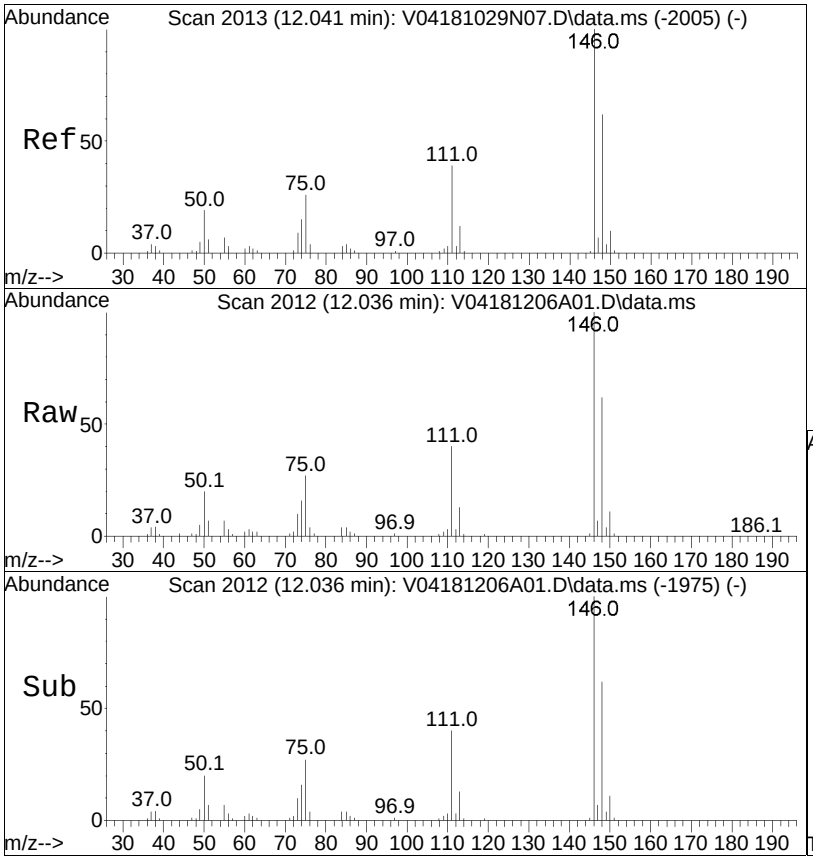


#87
1,1,2,2-Tetrachloroethane
Concen: 20.91 ug/L
RT: 11.155 min Scan# 1844
Delta R.T. 0.000 min
Lab File: V04181206A01.D
Acq: 6 Dec 2018 6:44 am

Tgt Ion: 83 Resp: 44708

Ion	Ratio	Lower	Upper
83	100		
131	9.8	0.0	30.7
85	65.1	44.7	84.7

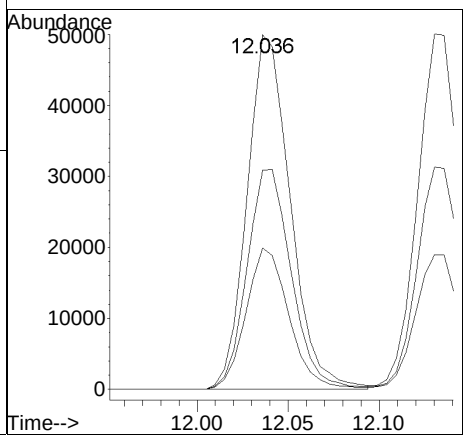


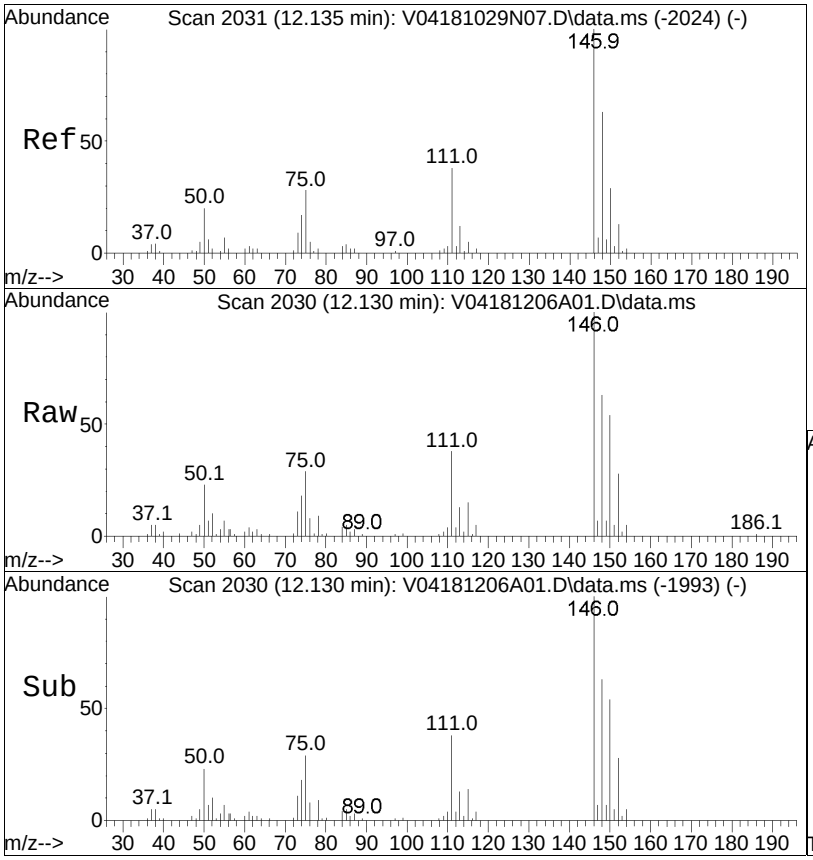


#100
1,3-Dichlorobenzene
Concen: 20.26 ug/L
RT: 12.036 min Scan# 2012
Delta R.T. -0.005 min
Lab File: V04181206A01.D
Acq: 6 Dec 2018 6:44 am

Tgt Ion:146 Resp: 82578

Ion	Ratio	Lower	Upper
146	100		
111	39.6	24.8	51.6
148	63.6	41.6	86.4

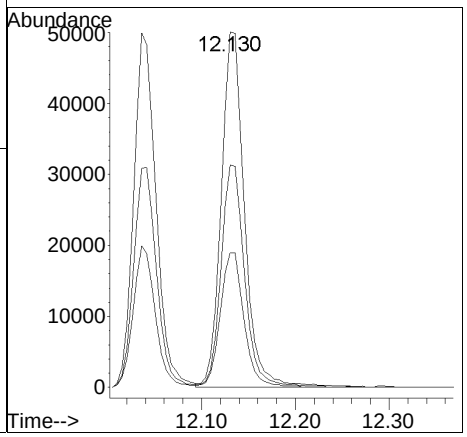


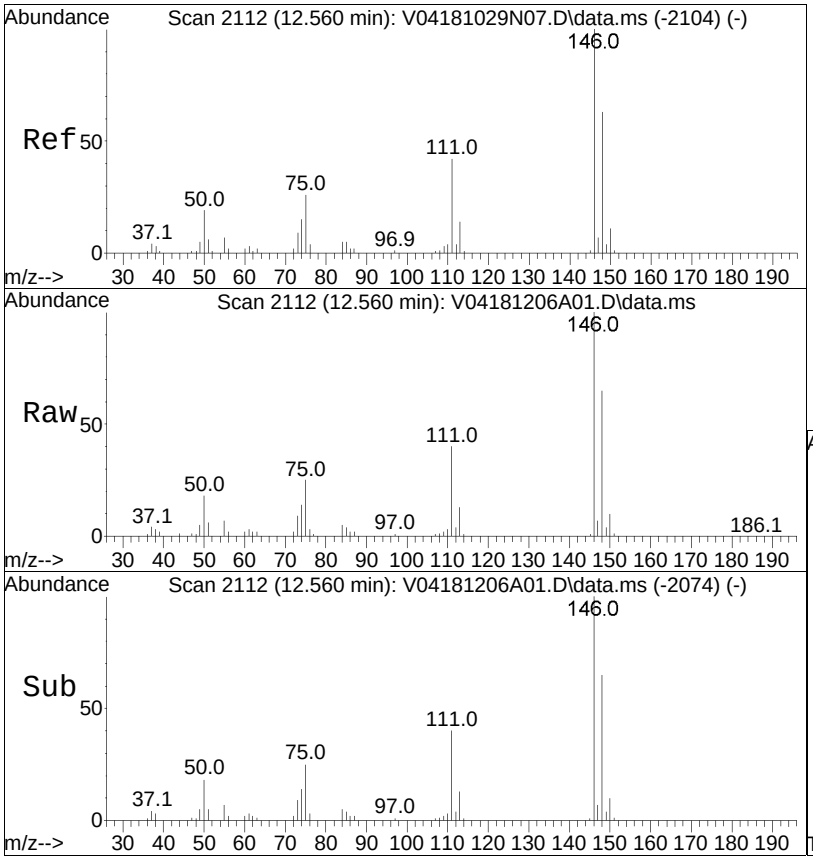


#101
1,4-Dichlorobenzene
Concen: 20.15 ug/L
RT: 12.130 min Scan# 2030
Delta R.T. -0.005 min
Lab File: V04181206A01.D
Acq: 6 Dec 2018 6:44 am

Tgt Ion:146 Resp: 86826

Ion	Ratio	Lower	Upper
146	100		
111	38.6	30.2	45.2
148	63.5	50.6	76.0

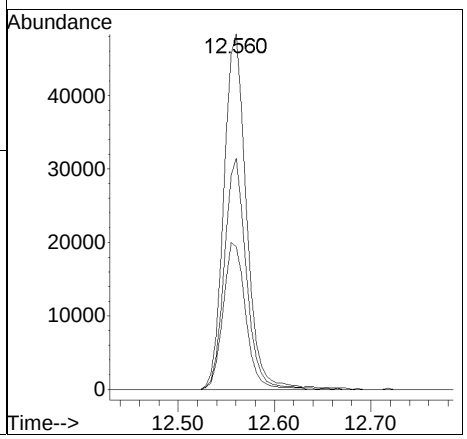


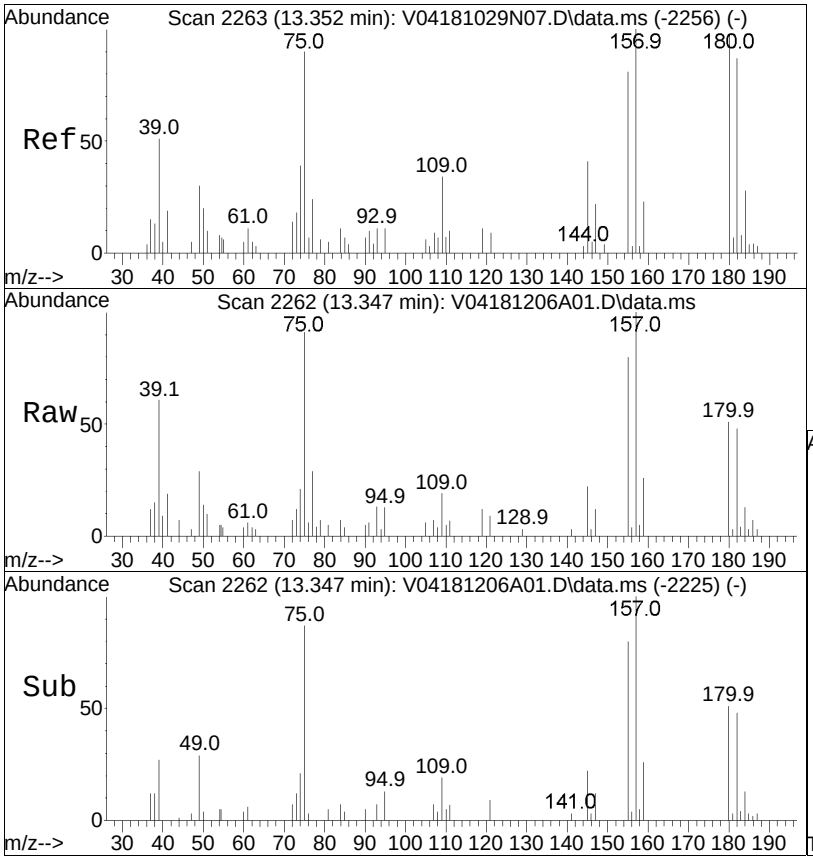


#104
1,2-Dichlorobenzene
Concen: 20.22 ug/L
RT: 12.560 min Scan# 2112
Delta R.T. 0.000 min
Lab File: V04181206A01.D
Acq: 6 Dec 2018 6:44 am

Tgt Ion:146 Resp: 79103

Ion	Ratio	Lower	Upper
146	100		
111	41.1	25.5	52.9
148	63.0	40.8	84.8

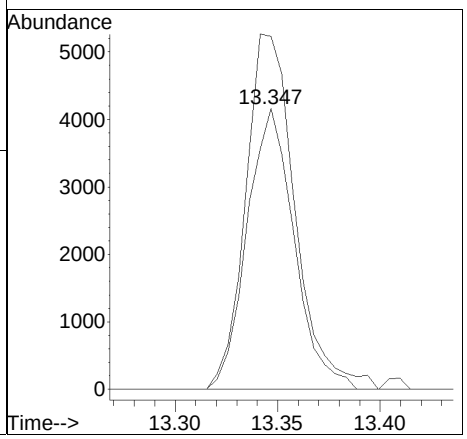


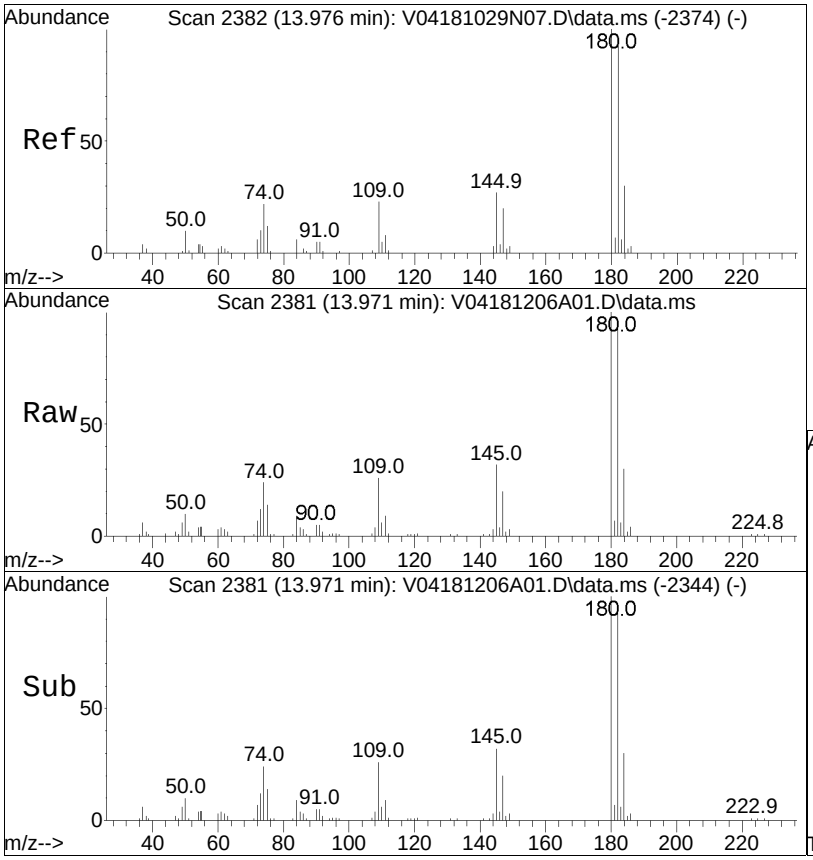


#106
1,2-Dibromo-3-chloropropane
Concen: 18.76 ug/L
RT: 13.347 min Scan# 2262
Delta R.T. -0.005 min
Lab File: V04181206A01.D
Acq: 6 Dec 2018 6:44 am

Tgt Ion:155 Resp: 6677

Ion	Ratio	Lower	Upper
155	100		
157	132.7	103.2	154.8

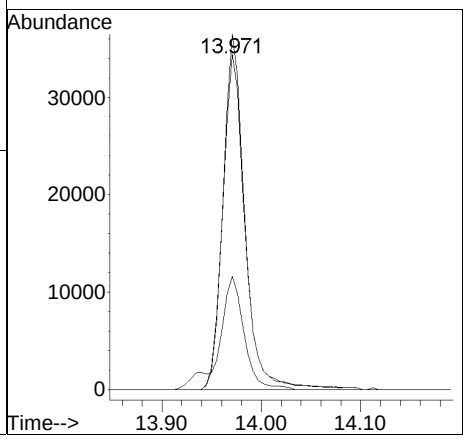


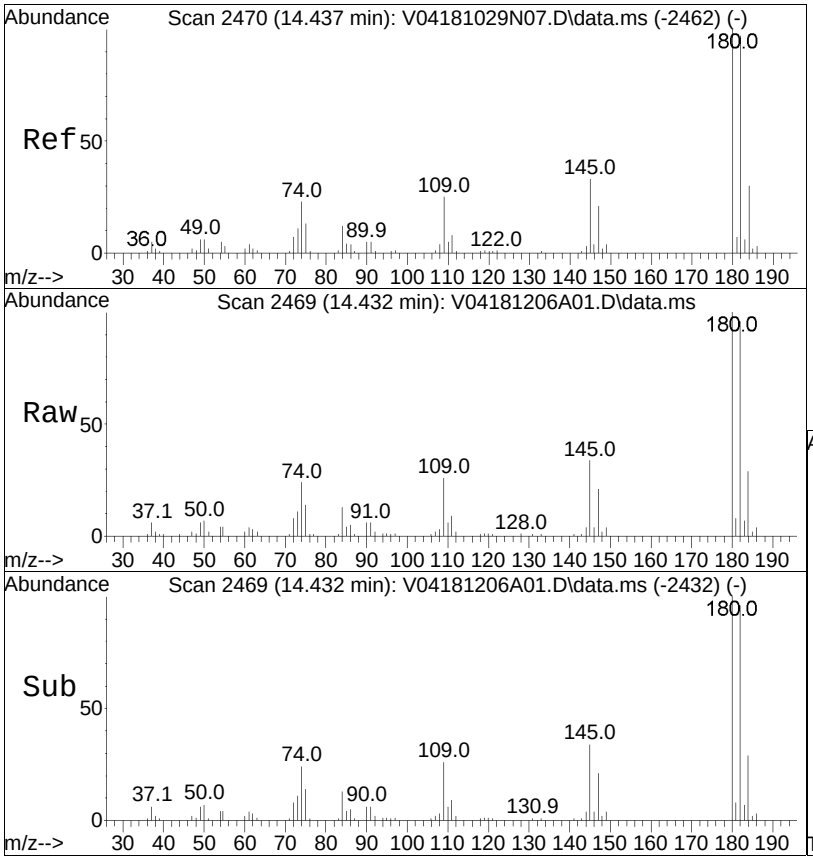


#109
1,2,4-Trichlorobenzene
Concen: 21.10 ug/L
RT: 13.971 min Scan# 2381
Delta R.T. -0.005 min
Lab File: V04181206A01.D
Acq: 6 Dec 2018 6:44 am

Tgt Ion:180 Resp: 55902

Ion	Ratio	Lower	Upper
180	100		
182	95.5	77.0	115.4
145	35.9	28.4	42.6

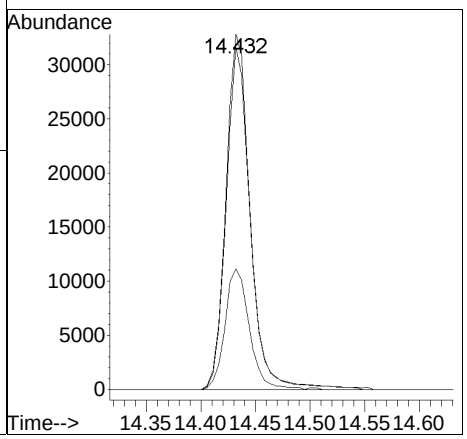




#111
1,2,3-Trichlorobenzene
Concen: 20.02 ug/L
RT: 14.432 min Scan# 2469
Delta R.T. -0.005 min
Lab File: V04181206A01.D
Acq: 6 Dec 2018 6:44 am

Tgt Ion:180 Resp: 50811

Ion	Ratio	Lower	Upper
180	100		
182	95.7	75.9	113.9
145	34.0	25.8	38.6



Manual Integration Report

Data Path	: I:\VOLATILES\VOA104\2018\1	QMethod	: V104_181029N_8260.m
Data File	: V04181206A01.D	Operator	: VOA104:MV
Date Inj'd	: 12/6/2018 6:44 am	Instrument	: VOA 104
Sample	: WG1186463-3,31,5,5	Quant Date	: 12/6/2018 7:17 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2018\181206N\
Data File : V11181206N01.D
Acq On : 06 Dec 2018 14:37
Operator : VOA111:MKS
Sample : WG1186672-3,31,5,5
Misc : WG1186672,ICAL15260
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 06 15:05:50 2018
Quant Method : I:\VOLATILES\VOA111\2018\181206N\V111_181115N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 19 17:40:28 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2018\181206N\V11181206N01.D
Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.543	96	82887	20.000	ug/L	0.00
Standard Area 1 = 82887			Recovery = 100.00%			
59) Chlorobenzene-d5	9.009	117	66465	20.000	ug/L	-0.01
Standard Area 1 = 66465			Recovery = 100.00%			
79) 1,4-Dichlorobenzene-d4	11.825	152	34331	20.000	ug/L	0.00
Standard Area 1 = 34331			Recovery = 100.00%			
System Monitoring Compounds						
36) Dibromofluoromethane	4.762	113	22395	20.211	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 101.05%			
43) 1,2-Dichloroethane-d4	5.265	65	26646	19.498	ug/L	-0.01
Spiked Amount 20.000	Range 70 - 130		Recovery = 97.49%			
60) Toluene-d8	7.200	98	82589	20.785	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 103.93%			
83) 4-Bromofluorobenzene	10.556	95	32080	20.137	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 100.69%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.527	85	16758	22.021	ug/L	95
3) Chloromethane	1.695	50	19080	18.074	ug/L	100
4) Vinyl chloride	1.747	62	16455	22.171	ug/L	99
5) Bromomethane	2.015	94	14192	22.084	ug/L	99
6) Chloroethane	2.114	64	10797	21.481	ug/L	99
7) Trichlorofluoromethane	2.235	101	34205	22.598	ug/L	100
10) 1,1-Dichloroethene	2.670	96	16648	22.182	ug/L	95
11) Carbon disulfide	2.696	76	44318	19.022	ug/L	99
12) Freon-113	2.707	101	17992	22.296	ug/L	94
15) Methylene chloride	3.168	84	19965	19.392	ug/L	81
17) Acetone	3.210	43	4712	15.940	ug/L	96
18) trans-1,2-Dichloroethene	3.315	96	20397	21.440	ug/L	94
19) Methyl acetate	3.320	43	12241	14.925	ug/L #	90
20) Methyl tert-butyl ether	3.399	73	56325	18.280	ug/L	88
23) 1,1-Dichloroethane	3.850	63	39485	18.822	ug/L	95
28) cis-1,2-Dichloroethene	4.337	96	22872	20.019	ug/L	92
30) Bromochloromethane	4.521	128	11253	20.144	ug/L #	68
31) Cyclohexane	4.526	56	34346	18.233	ug/L	85
32) Chloroform	4.594	83	42546	20.228	ug/L	96
34) Carbon tetrachloride	4.720	117	36898	23.446	ug/L	99

Data Path : I:\VOLATILES\VOA111\2018\181206N\
Data File : V11181206N01.D
Acq On : 06 Dec 2018 14:37
Operator : VOA111:MKS
Sample : WG1186672-3,31,5,5
Misc : WG1186672,ICAL15260
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 06 15:05:50 2018
Quant Method : I:\VOLATILES\VOA111\2018\181206N\V111_181115N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 19 17:40:28 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2018\181206N\V11181206N01.D
Sub List : 8260-CurveSoil - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37)	1,1,1-Trichloroethane	4.783	97	42125	22.464	ug/L		95
39)	2-Butanone	4.877	43	7229	14.676	ug/L	#	87
41)	Benzene	5.134	78	77337	19.592	ug/L		96
44)	1,2-Dichloroethane	5.328	62	34807	18.175	ug/L		99
47)	Methyl cyclohexane	5.706	83	32247	21.462	ug/L		87
48)	Trichloroethene	5.716	95	22771	20.698	ug/L		97
51)	1,2-Dichloropropane	6.241	63	20853	17.878	ug/L	#	90
54)	Bromodichloromethane	6.314	83	32325	19.151	ug/L		97
57)	1,4-Dioxane	6.524	88	9627	905.042	ug/L	#	84
58)	cis-1,3-Dichloropropene	6.990	75	34767	19.322	ug/L		94
61)	Toluene	7.253	92	54652	21.621	ug/L		96
62)	4-Methyl-2-pentanone	7.688	58	6247	15.288	ug/L	#	76
63)	Tetrachloroethene	7.693	166	24720	23.543	ug/L		98
65)	trans-1,3-Dichloropropene	7.735	75	32231	19.823	ug/L		84
68)	1,1,2-Trichloroethane	7.913	83	13150	18.674	ug/L		95
69)	Chlorodibromomethane	8.123	129	24318	19.952	ug/L		97
71)	1,2-Dibromoethane	8.380	107	17398	19.647	ug/L		98
72)	2-Hexanone	8.694	43	10596	14.449	ug/L	#	91
73)	Chlorobenzene	9.030	112	63531	20.661	ug/L		98
74)	Ethylbenzene	9.077	91	106916	21.489	ug/L		99
76)	p/m Xylene	9.266	106	85204	43.285	ug/L		99
77)	o Xylene	9.806	106	82428	41.880	ug/L		99
78)	Styrene	9.879	104	135038	41.285	ug/L		97
80)	Bromoform	9.895	173	14684	21.394	ug/L		100
82)	Isopropylbenzene	10.220	105	110928	23.127	ug/L		99
87)	1,1,2,2-Tetrachloroethane	10.823	83	19386	18.831	ug/L		98
100)	1,3-Dichlorobenzene	11.746	146	55133	22.032	ug/L		100
101)	1,4-Dichlorobenzene	11.840	146	55799	21.634	ug/L		98
104)	1,2-Dichlorobenzene	12.275	146	50320	21.369	ug/L		100
106)	1,2-Dibromo-3-chloropr...	13.072	155	3471	18.294	ug/L		100
109)	1,2,4-Trichlorobenzene	13.717	180	34700	21.467	ug/L		98
111)	1,2,3-Trichlorobenzene	14.179	180	30603	19.982	ug/L		97

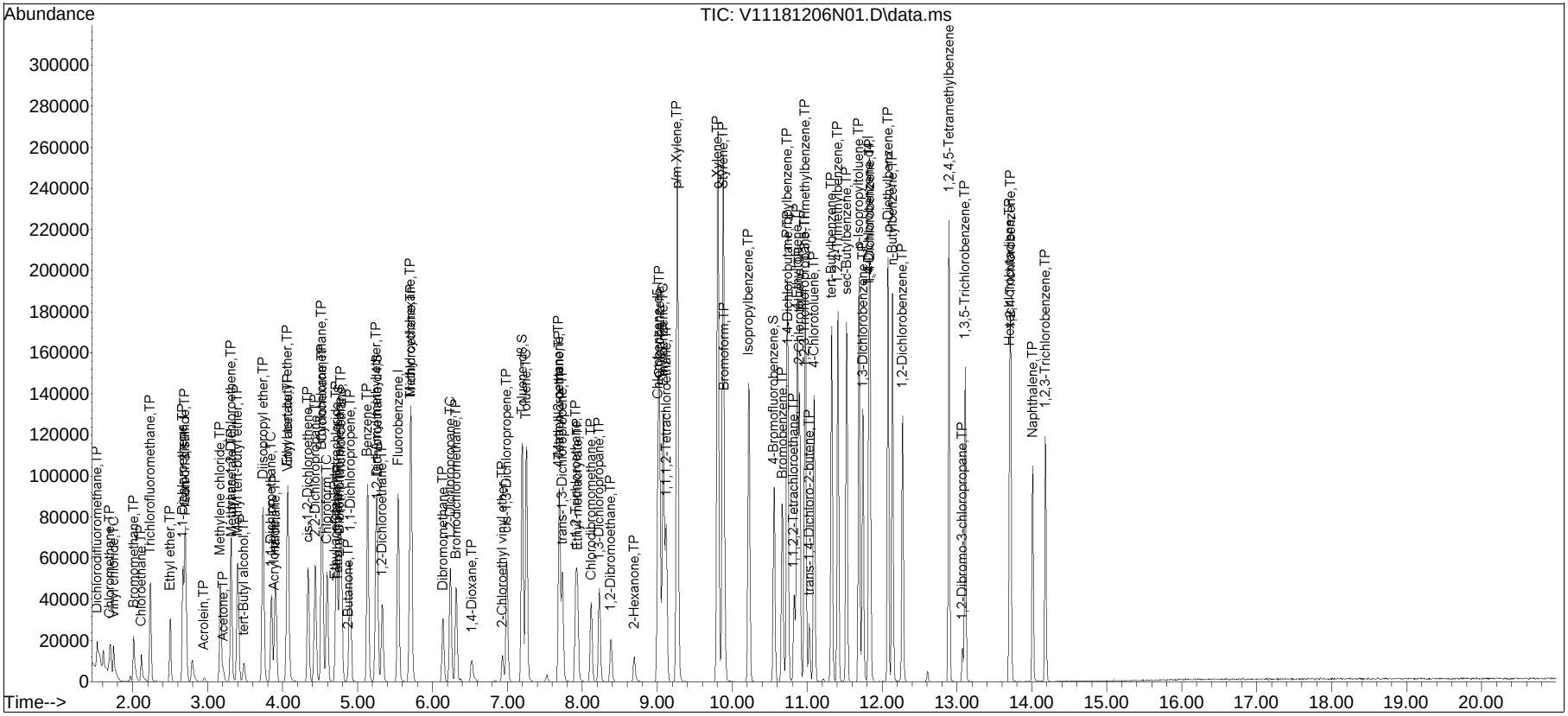
(#) = qualifier out of range (m) = manual integration (+) = signals summed

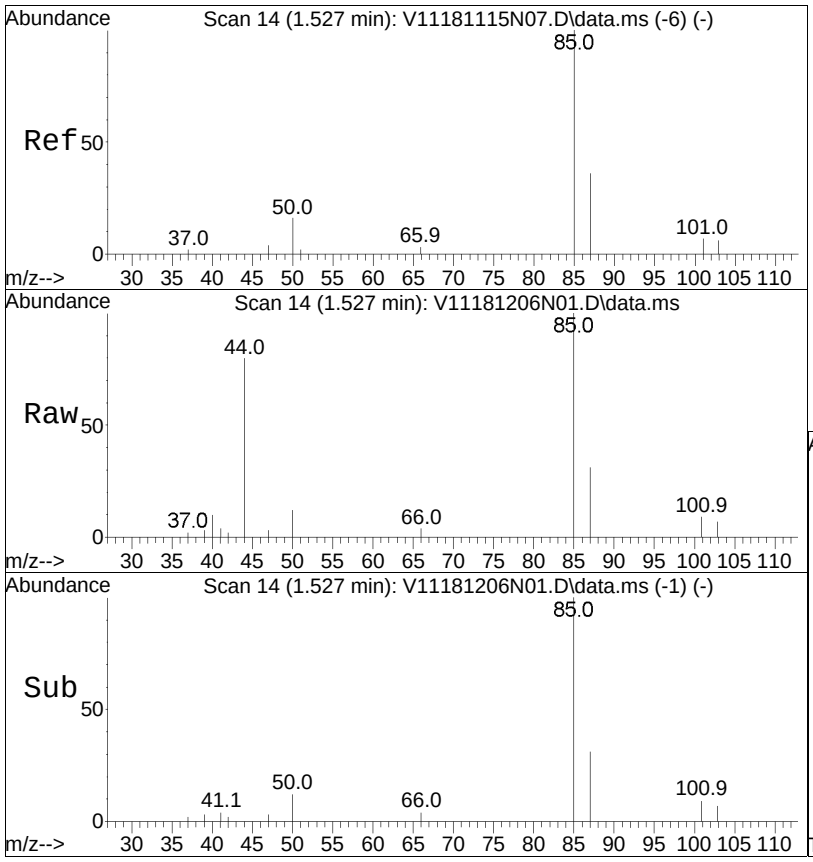
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2018\181206N\
Data File : V11181206N01.D
Acq On : 06 Dec 2018 14:37
Operator : VOA111:MKS
Sample : WG1186672-3,31,5,5
Misc : WG1186672,ICAL15260
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 06 15:05:50 2018
Quant Method : I:\VOLATILES\VOA111\2018\181206N\V111_181115N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 19 17:40:28 2018
Response via : Initial Calibration

Sub List : 8260-CurveSoil - Megamix plus Diox6N\V11181206N01.D•

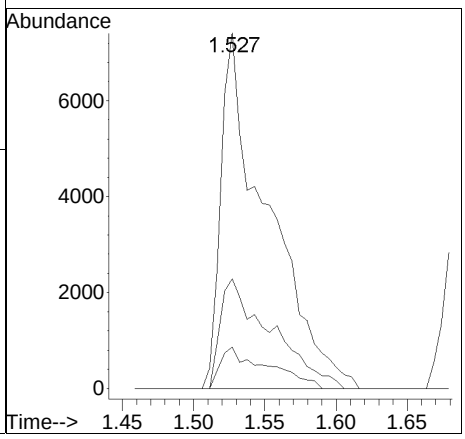


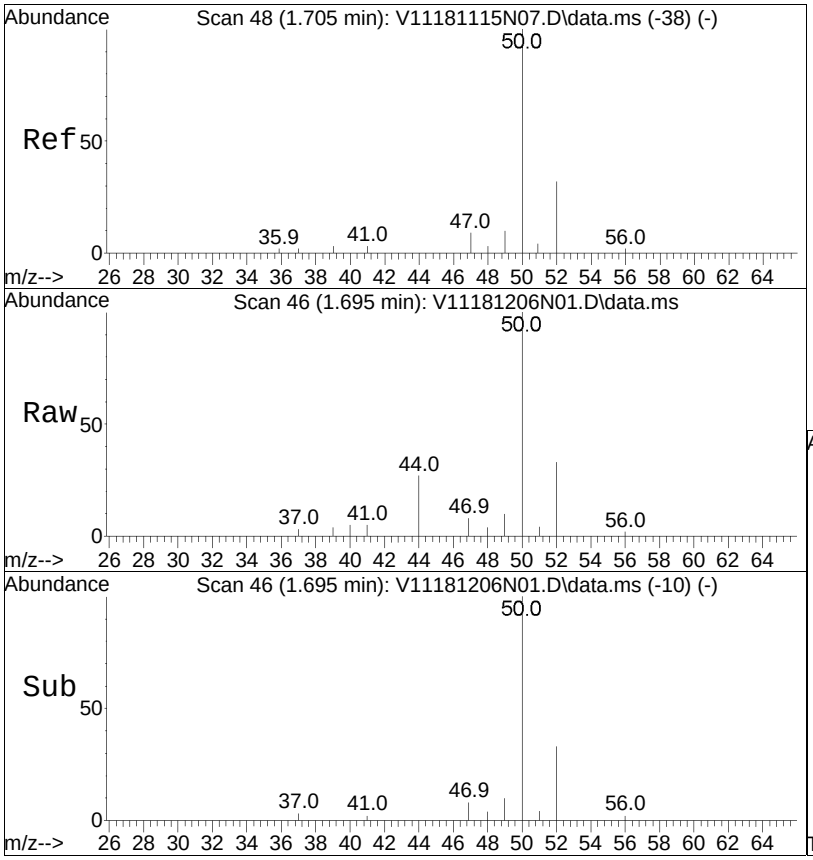


#2
Dichlorodifluoromethane
Concen: 22.02 ug/L
RT: 1.527 min Scan# 14
Delta R.T. 0.000 min
Lab File: V11181206N01.D
Acq: 06 Dec 2018 14:37

Tgt Ion: 85 Resp: 16758

Ion	Ratio	Lower	Upper
85	100		
87	33.7	20.7	43.1
50	11.8	9.8	20.3

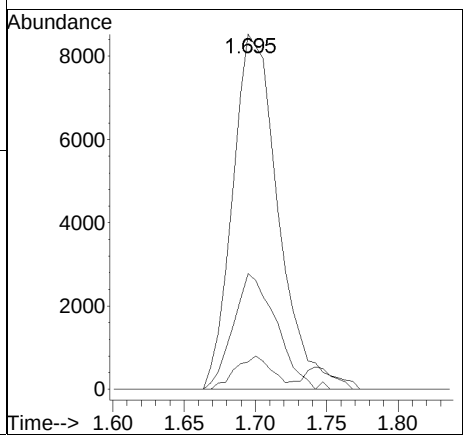


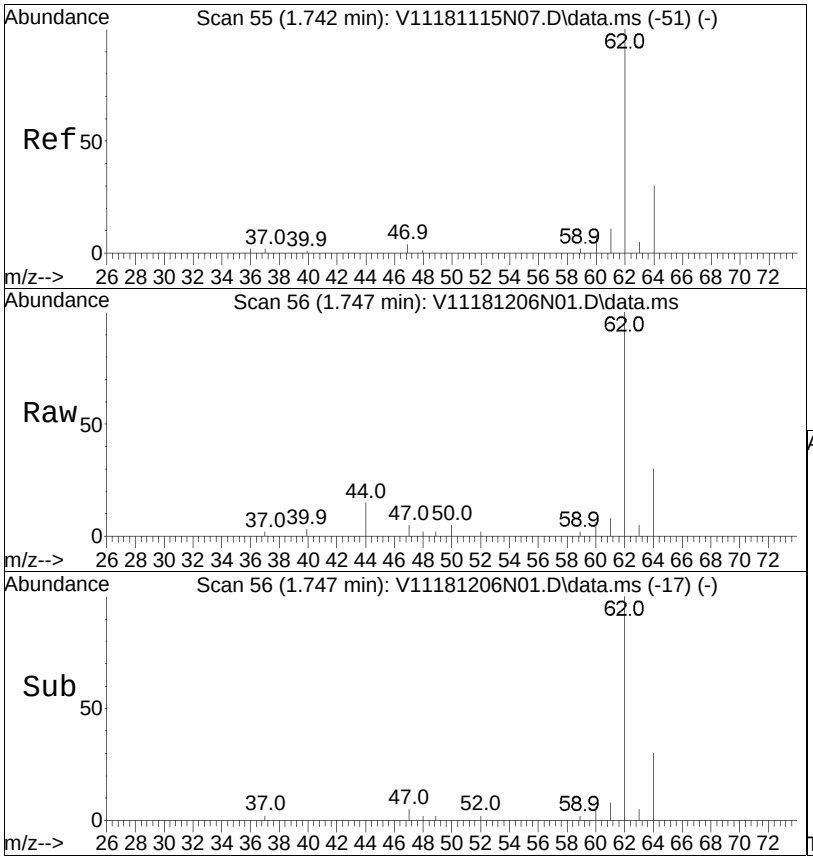


#3
Chloromethane
Concen: 18.07 ug/L
RT: 1.695 min Scan# 46
Delta R.T. -0.010 min
Lab File: V11181206N01.D
Acq: 06 Dec 2018 14:37

Tgt Ion: 50 Resp: 19080

Ion	Ratio	Lower	Upper
50	100		
52	30.9	10.9	50.9
47	7.5	0.0	27.2

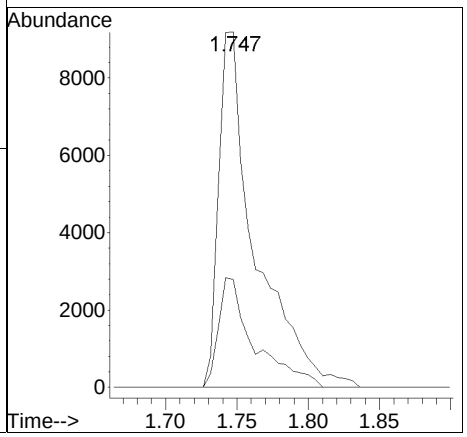


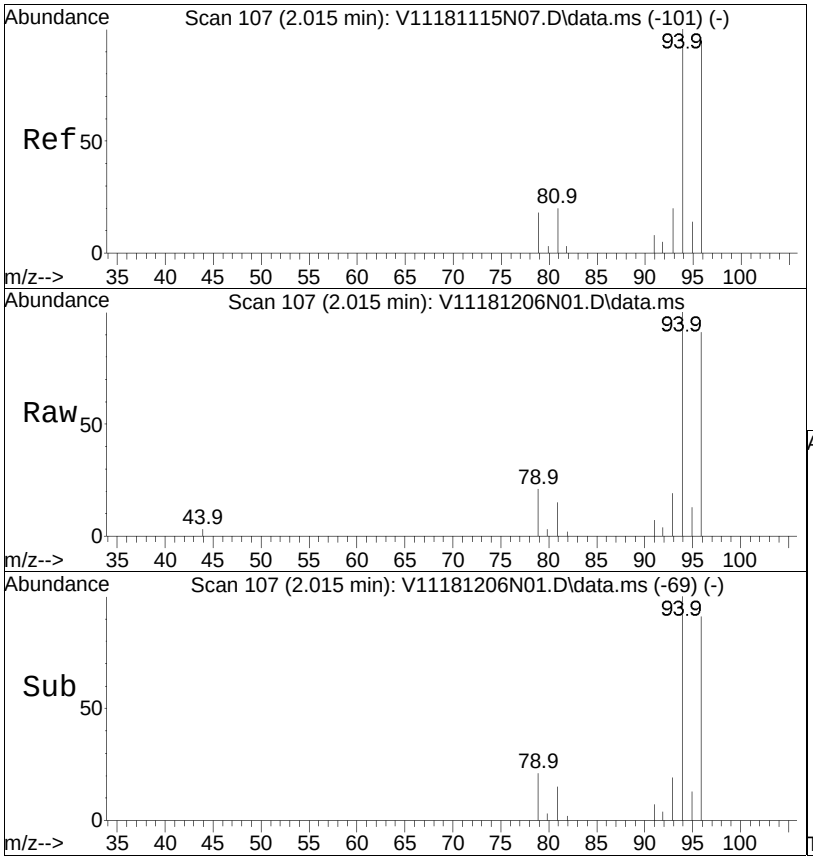


#4
Vinyl chloride
Concen: 22.17 ug/L
RT: 1.747 min Scan# 56
Delta R.T. 0.005 min
Lab File: V11181206N01.D
Acq: 06 Dec 2018 14:37

Tgt Ion: 62 Resp: 16455

Ion	Ratio	Lower	Upper
62	100		
64	30.2	9.9	49.9

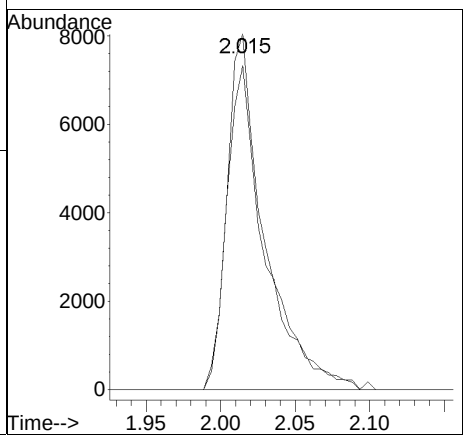


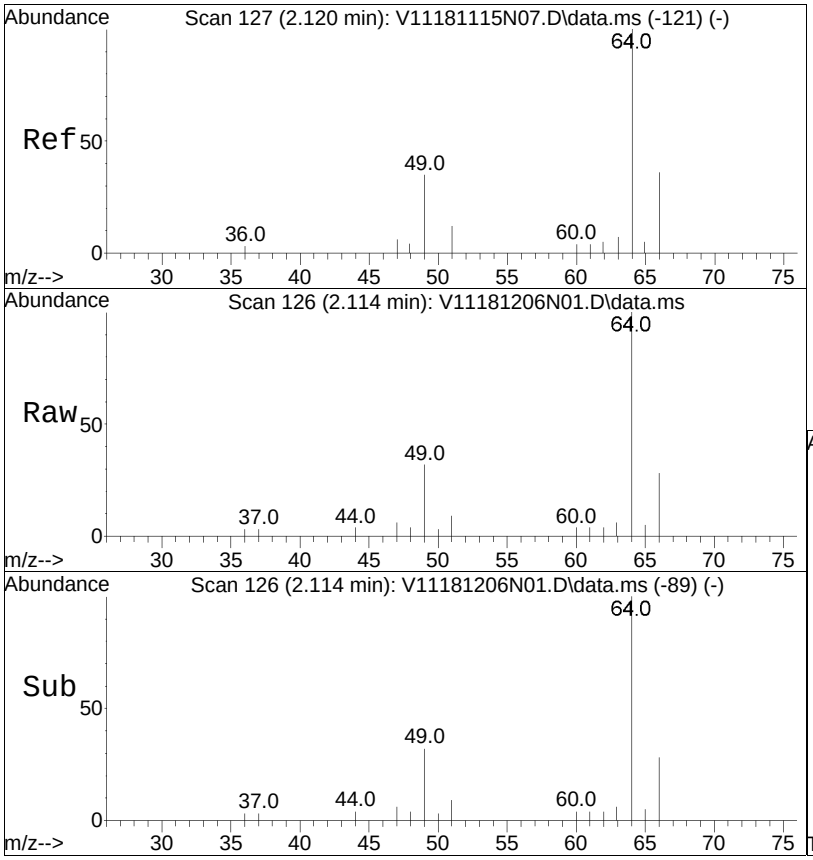


#5
Bromomethane
Concen: 22.08 ug/L
RT: 2.015 min Scan# 107
Delta R.T. -0.000 min
Lab File: V11181206N01.D
Acq: 06 Dec 2018 14:37

Tgt Ion: 94 Resp: 14192

Ion	Ratio	Lower	Upper
94	100		
96	92.1	72.6	112.6

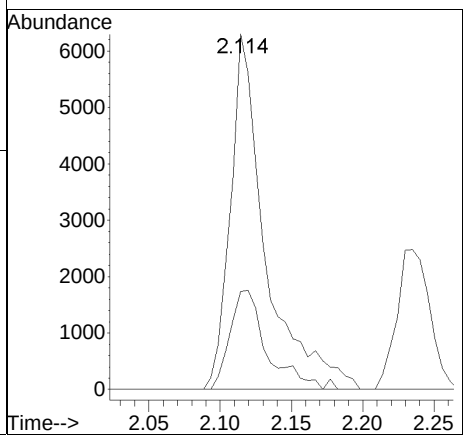


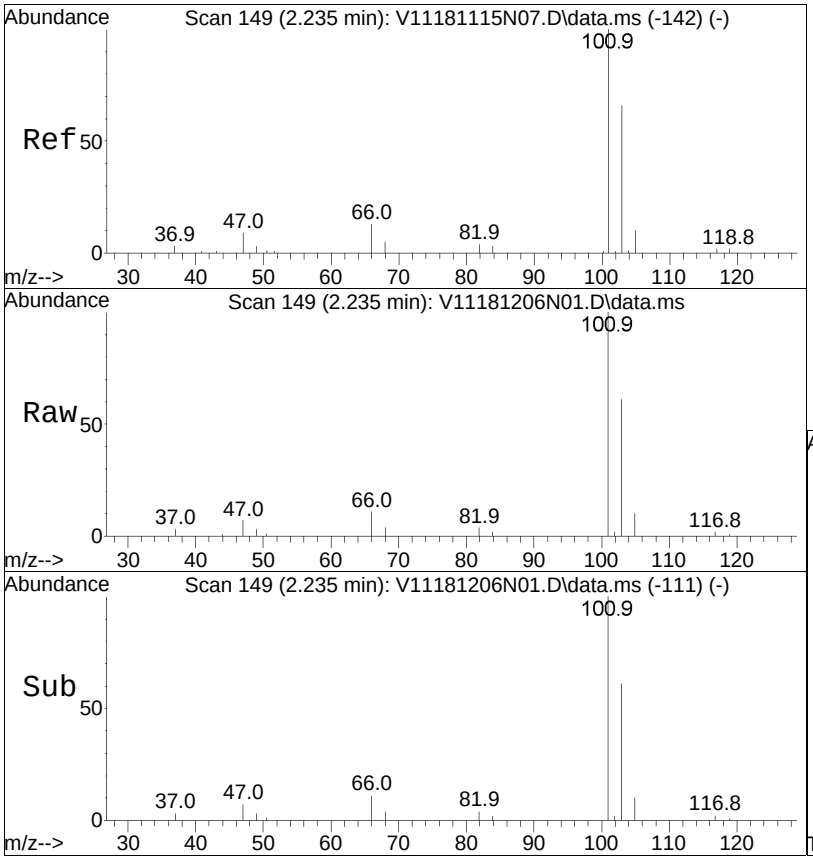


#6
Chloroethane
Concen: 21.48 ug/L
RT: 2.114 min Scan# 126
Delta R.T. -0.006 min
Lab File: V11181206N01.D
Acq: 06 Dec 2018 14:37

Tgt Ion: 64 Resp: 10797

Ion	Ratio	Lower	Upper
64	100		
66	29.7	10.2	50.2

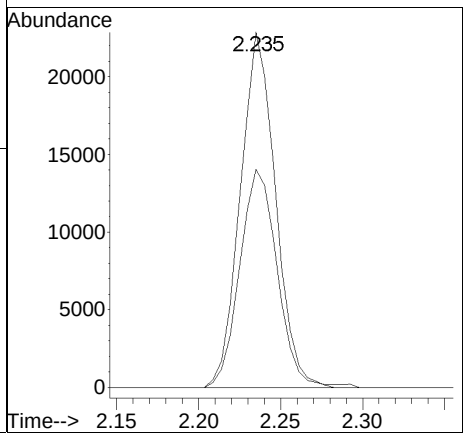


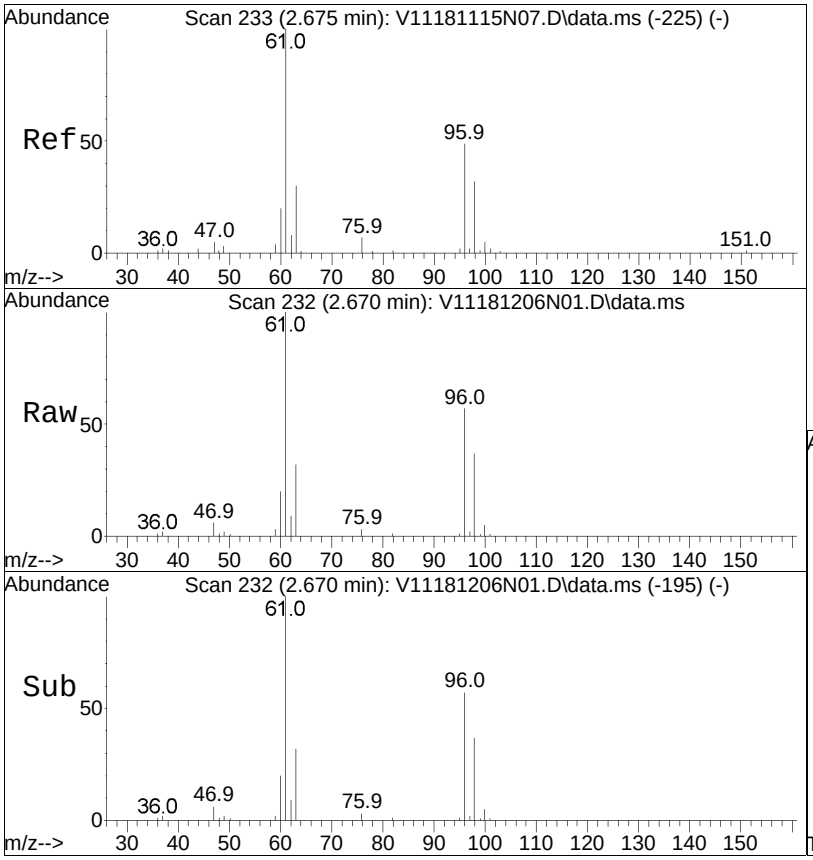


#7
Trichlorofluoromethane
Concen: 22.60 ug/L
RT: 2.235 min Scan# 149
Delta R.T. -0.000 min
Lab File: V11181206N01.D
Acq: 06 Dec 2018 14:37

Tgt Ion:101 Resp: 34205

Ion	Ratio	Lower	Upper
101	100		
103	64.7	51.8	77.6

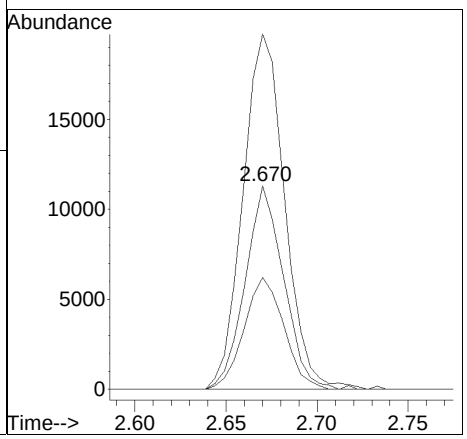


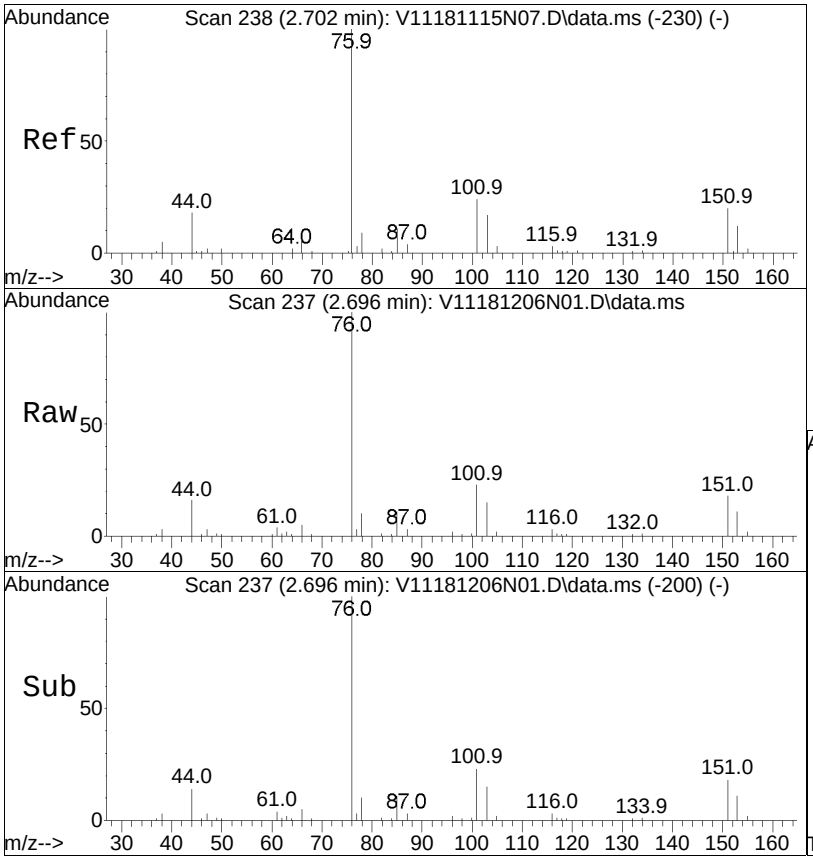


#10
1,1-Dichloroethene
Concen: 22.18 ug/L
RT: 2.670 min Scan# 232
Delta R.T. -0.005 min
Lab File: V11181206N01.D
Acq: 06 Dec 2018 14:37

Tgt Ion: 96 Resp: 16648

Ion	Ratio	Lower	Upper
96	100		
61	188.6	157.7	236.5
63	56.9	47.9	71.9

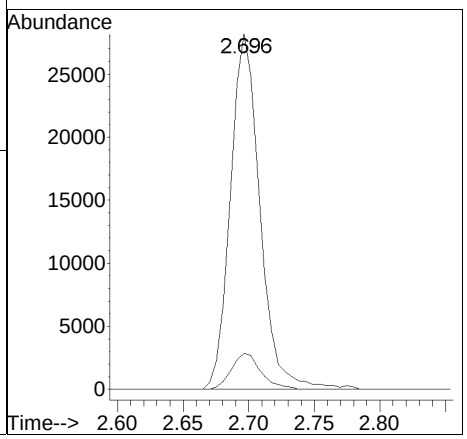


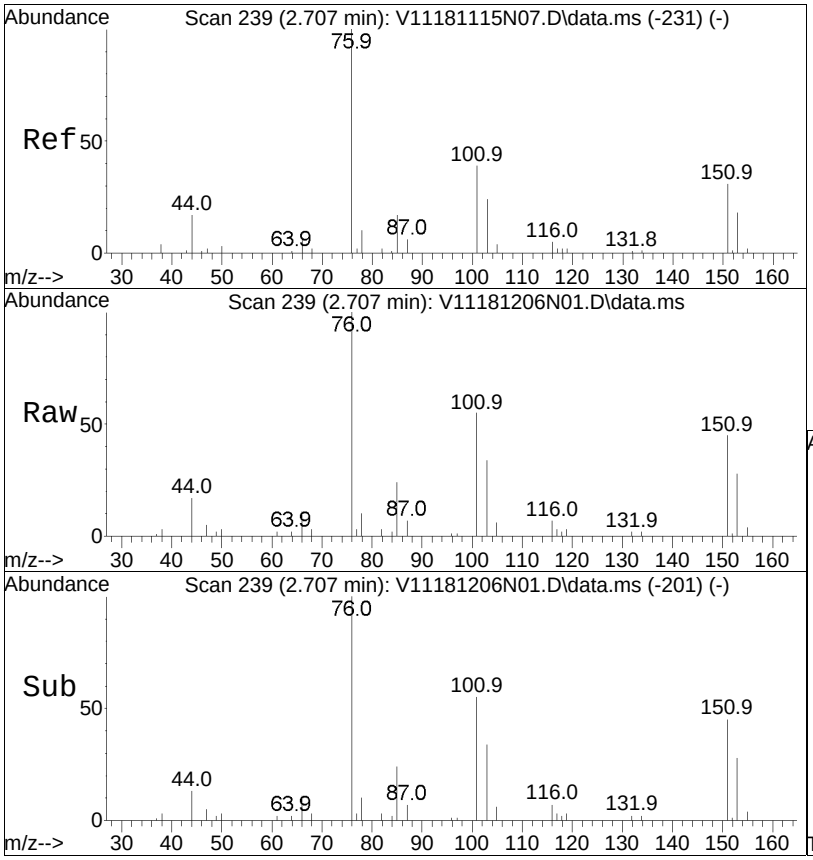


#11
Carbon disulfide
Concen: 19.02 ug/L
RT: 2.696 min Scan# 237
Delta R.T. -0.006 min
Lab File: V11181206N01.D
Acq: 06 Dec 2018 14:37

Tgt Ion: 76 Resp: 44318

Ion	Ratio	Lower	Upper
76	100		
78	10.1	6.4	13.4

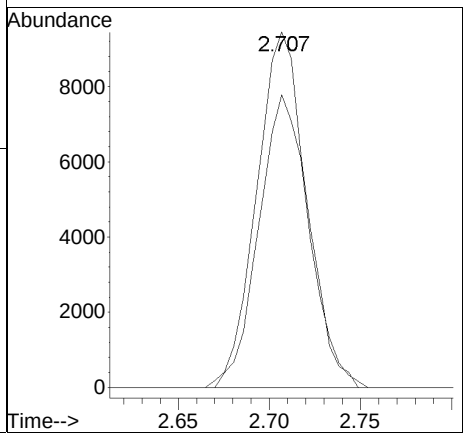


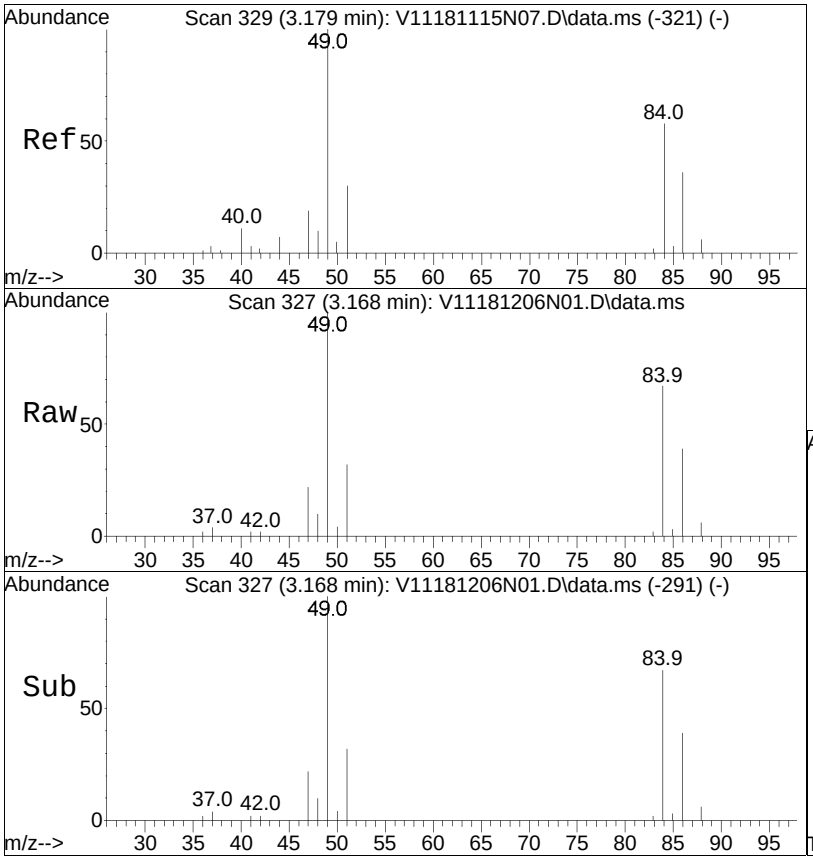


#12
Freon-113
Concen: 22.30 ug/L
RT: 2.707 min Scan# 239
Delta R.T. -0.000 min
Lab File: V11181206N01.D
Acq: 06 Dec 2018 14:37

Tgt Ion:101 Resp: 17992

Ion	Ratio	Lower	Upper
101	100		
151	83.0	62.2	93.4

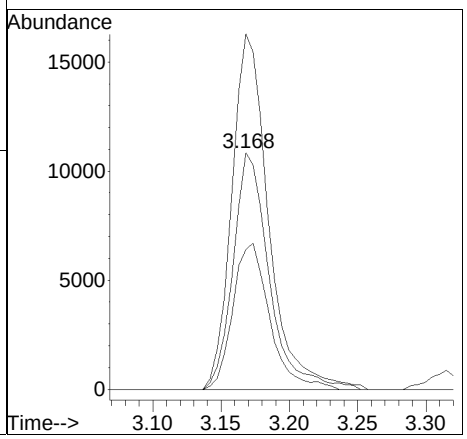


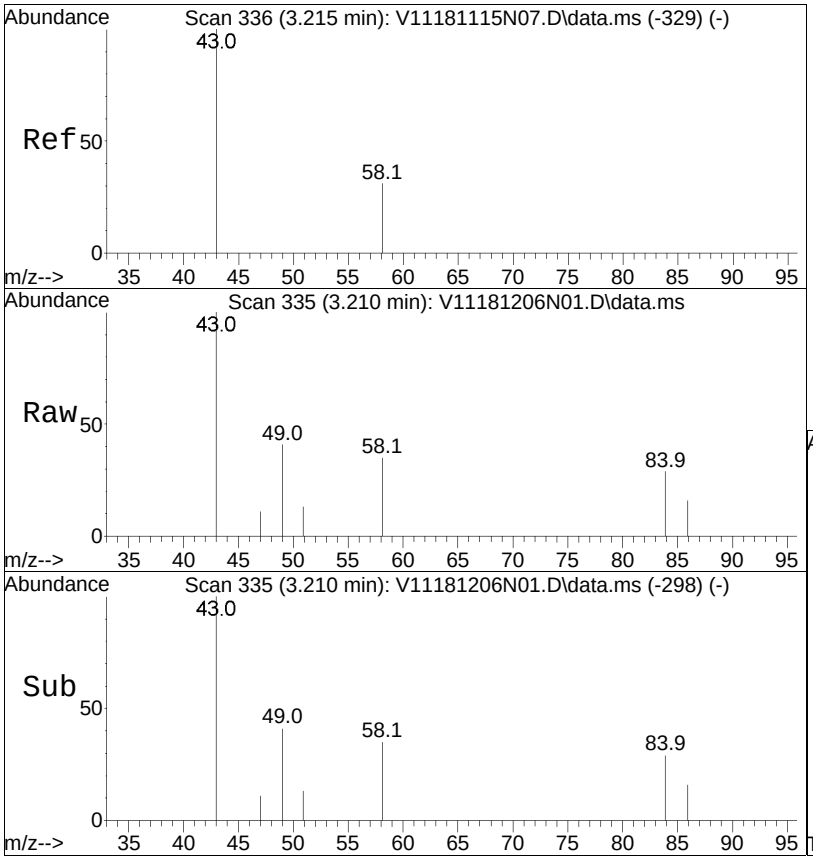


#15
Methylene chloride
Concen: 19.39 ug/L
RT: 3.168 min Scan# 327
Delta R.T. -0.011 min
Lab File: V11181206N01.D
Acq: 06 Dec 2018 14:37

Tgt Ion: 84 Resp: 19965

Ion	Ratio	Lower	Upper
84	100		
86	63.0	41.1	85.3
49	153.0	124.2	258.0

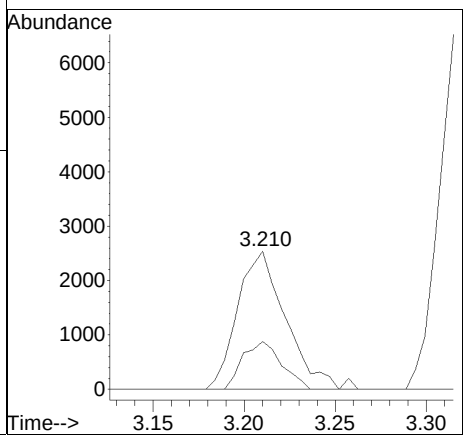


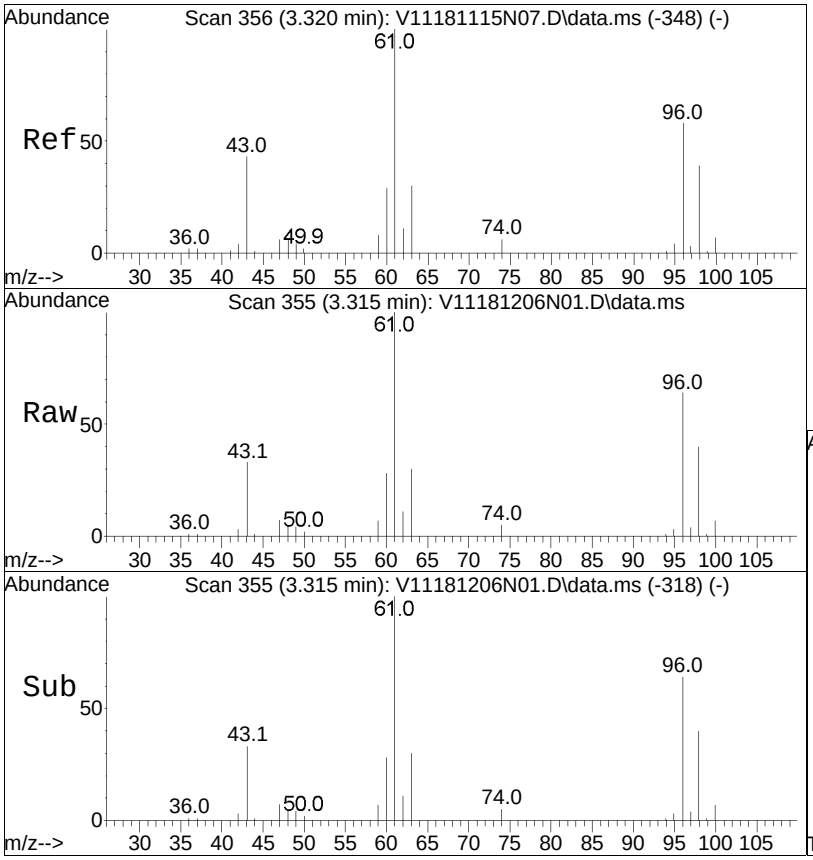


#17
Acetone
Concen: 15.94 ug/L
RT: 3.210 min Scan# 335
Delta R.T. -0.005 min
Lab File: V11181206N01.D
Acq: 06 Dec 2018 14:37

Tgt Ion: 43 Resp: 4712

Ion	Ratio	Lower	Upper
43	100		
58	27.9	20.8	31.2

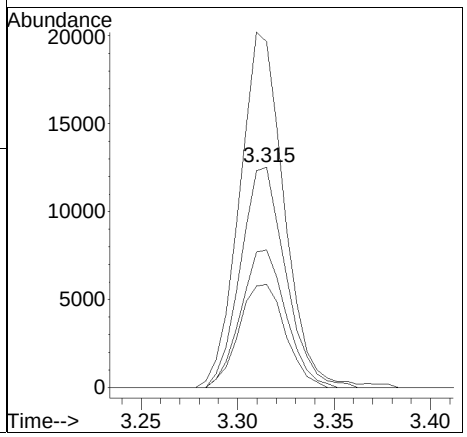


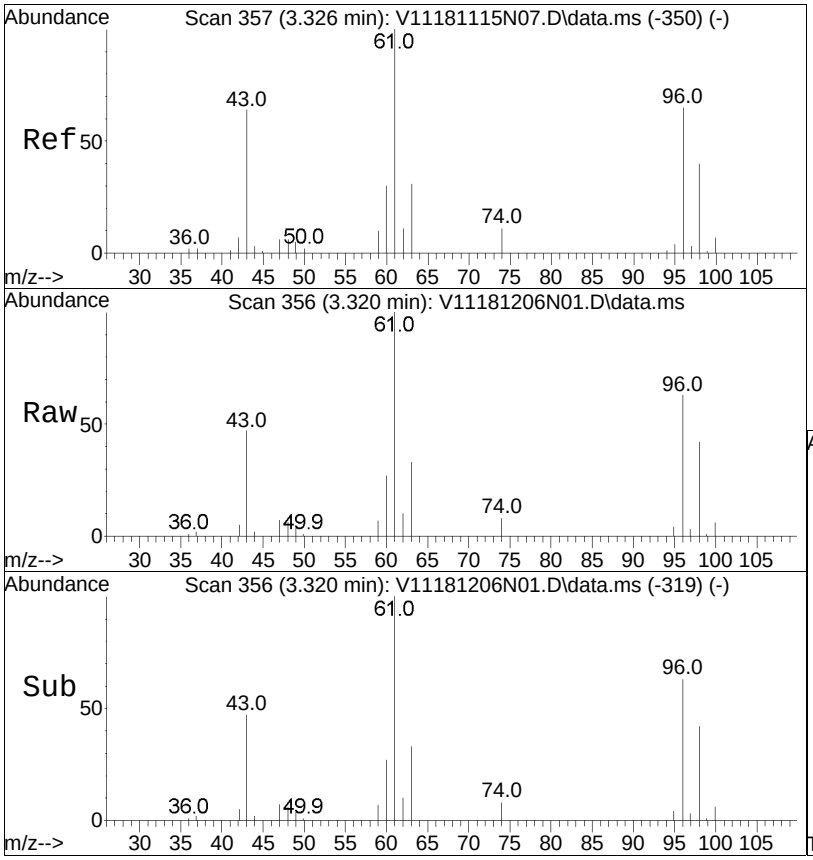


#18
trans-1,2-Dichloroethene
Concen: 21.44 ug/L
RT: 3.315 min Scan# 355
Delta R.T. -0.005 min
Lab File: V11181206N01.D
Acq: 06 Dec 2018 14:37

Tgt Ion: 96 Resp: 20397

Ion	Ratio	Lower	Upper
96	100		
61	159.8	111.1	230.8
98	62.4	41.8	86.8
63	48.0	33.3	69.1

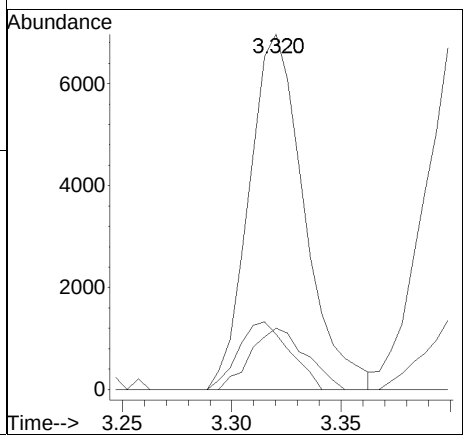


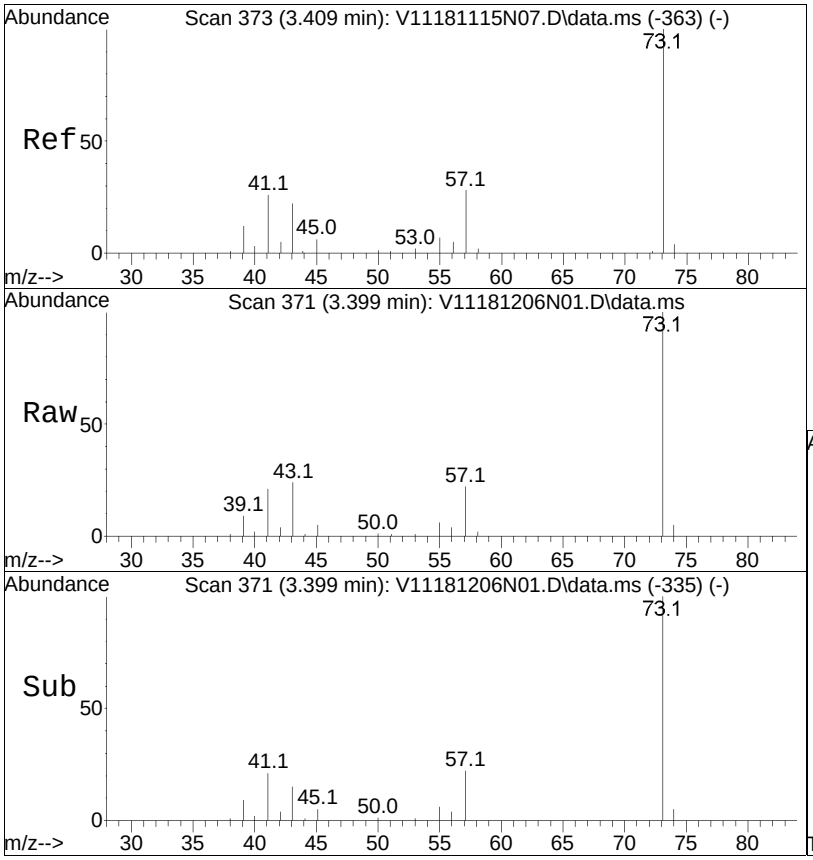


#19
Methyl acetate
Concen: 14.93 ug/L
RT: 3.320 min Scan# 356
Delta R.T. -0.006 min
Lab File: V11181206N01.D
Acq: 06 Dec 2018 14:37

Tgt Ion: 43 Resp: 12241

Ion	Ratio	Lower	Upper
43	100		
74	17.2	11.3	16.9#
59	17.7	10.4	15.6#

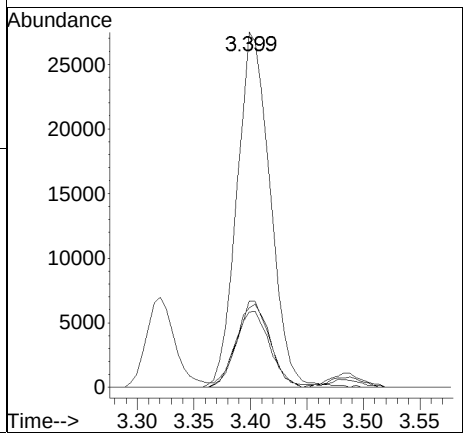


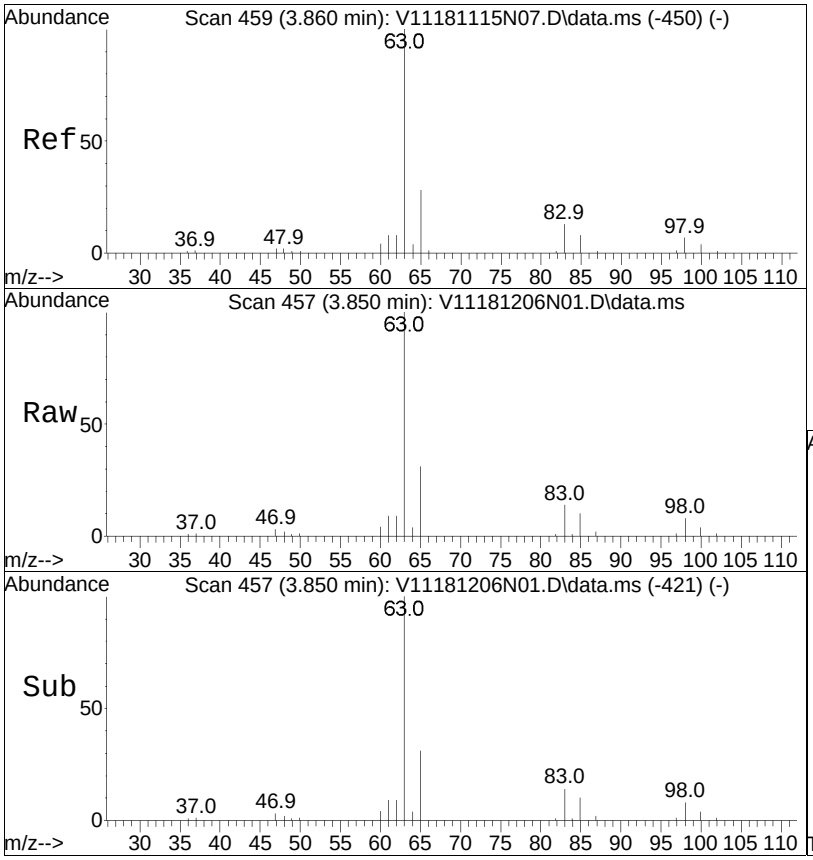


#20
Methyl tert-butyl ether
Concen: 18.28 ug/L
RT: 3.399 min Scan# 371
Delta R.T. -0.010 min
Lab File: V11181206N01.D
Acq: 06 Dec 2018 14:37

Tgt Ion: 73 Resp: 56325

Ion	Ratio	Lower	Upper
73	100		
57	23.9	19.6	40.6
43	24.6	18.5	38.3
41	21.9	20.3	42.1

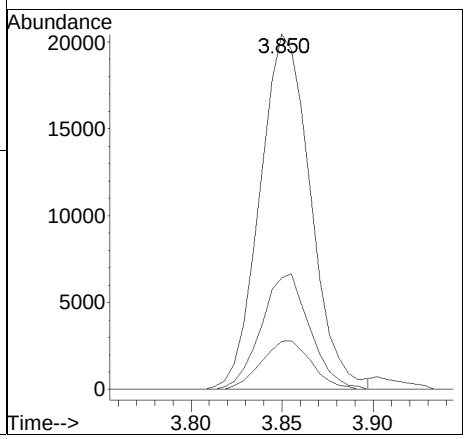


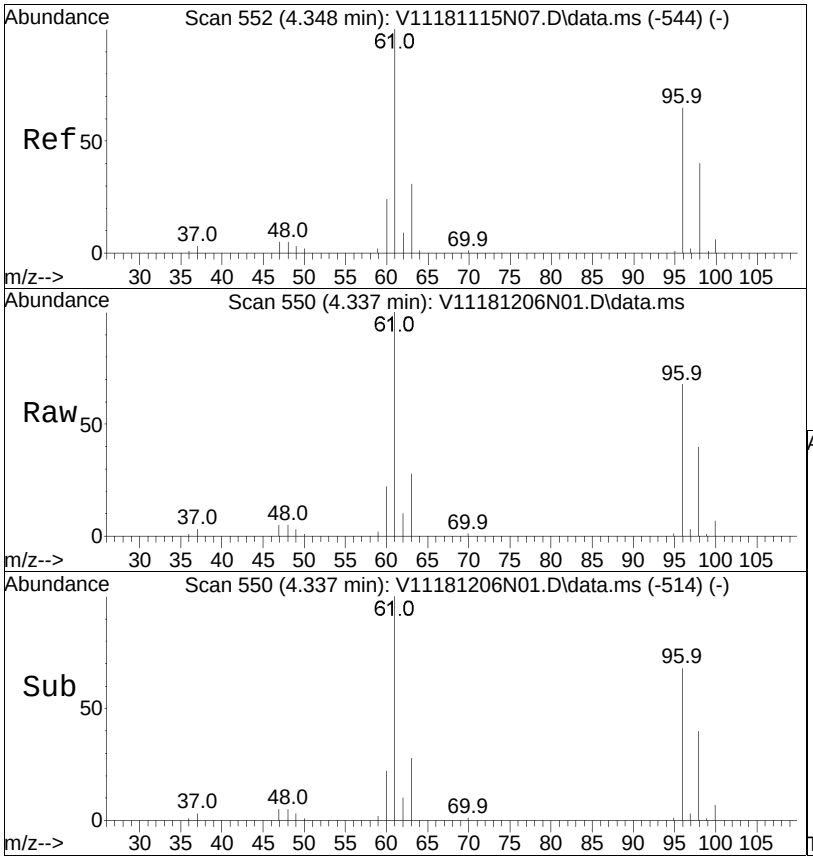


#23
1,1-Dichloroethane
Concen: 18.82 ug/L
RT: 3.850 min Scan# 457
Delta R.T. -0.010 min
Lab File: V11181206N01.D
Acq: 06 Dec 2018 14:37

Tgt Ion: 63 Resp: 39485

Ion	Ratio	Lower	Upper
63	100		
65	31.2	9.0	49.0
83	13.6	0.0	31.4

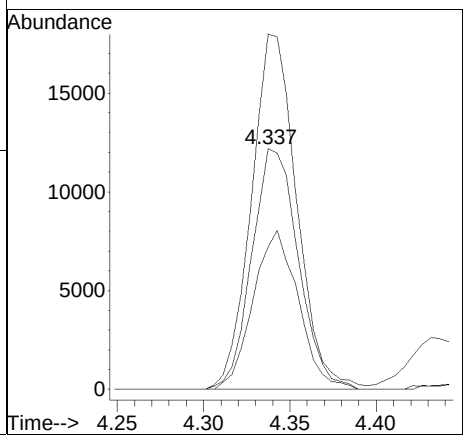


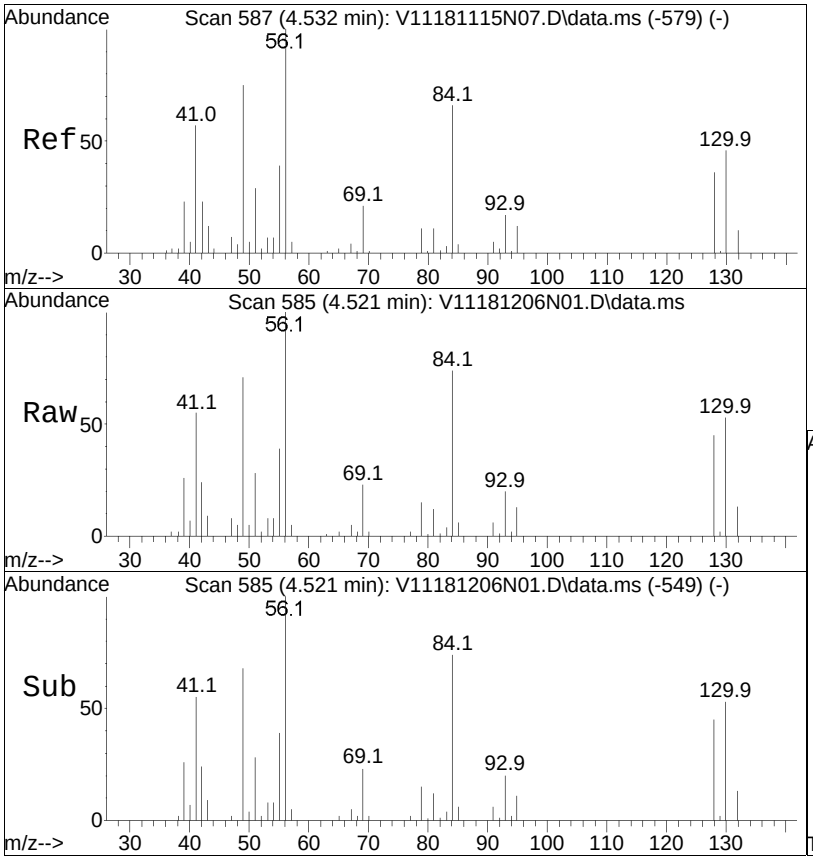


#28
cis-1,2-Dichloroethene
Concen: 20.02 ug/L
RT: 4.337 min Scan# 550
Delta R.T. -0.011 min
Lab File: V11181206N01.D
Acq: 06 Dec 2018 14:37

Tgt Ion: 96 Resp: 22872

Ion	Ratio	Lower	Upper
96	100		
61	143.9	126.3	189.5
98	64.2	51.0	76.6

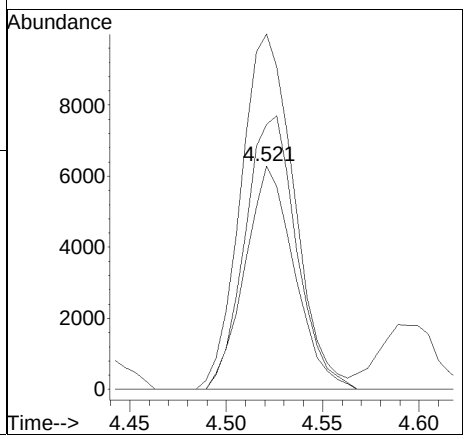


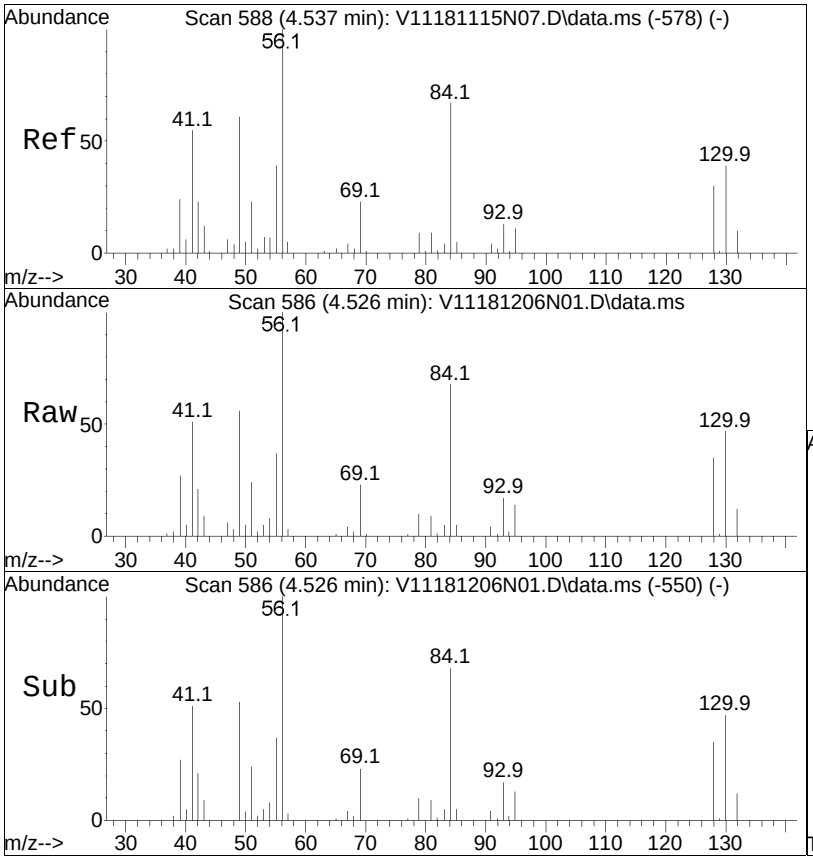


#30
Bromochloromethane
Concen: 20.14 ug/L
RT: 4.521 min Scan# 585
Delta R.T. -0.011 min
Lab File: V11181206N01.D
Acq: 06 Dec 2018 14:37

Tgt Ion:128 Resp: 11253

Ion	Ratio	Lower	Upper
128	100		
49	171.0	201.3	301.9#
130	127.1	106.2	159.2

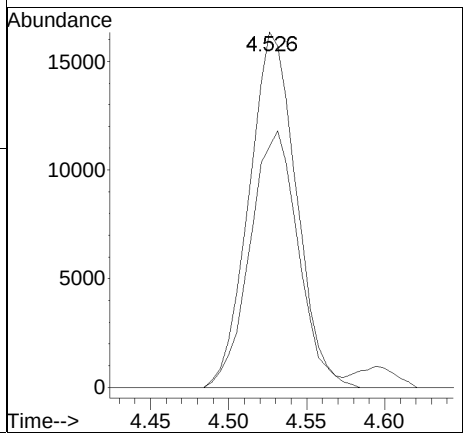


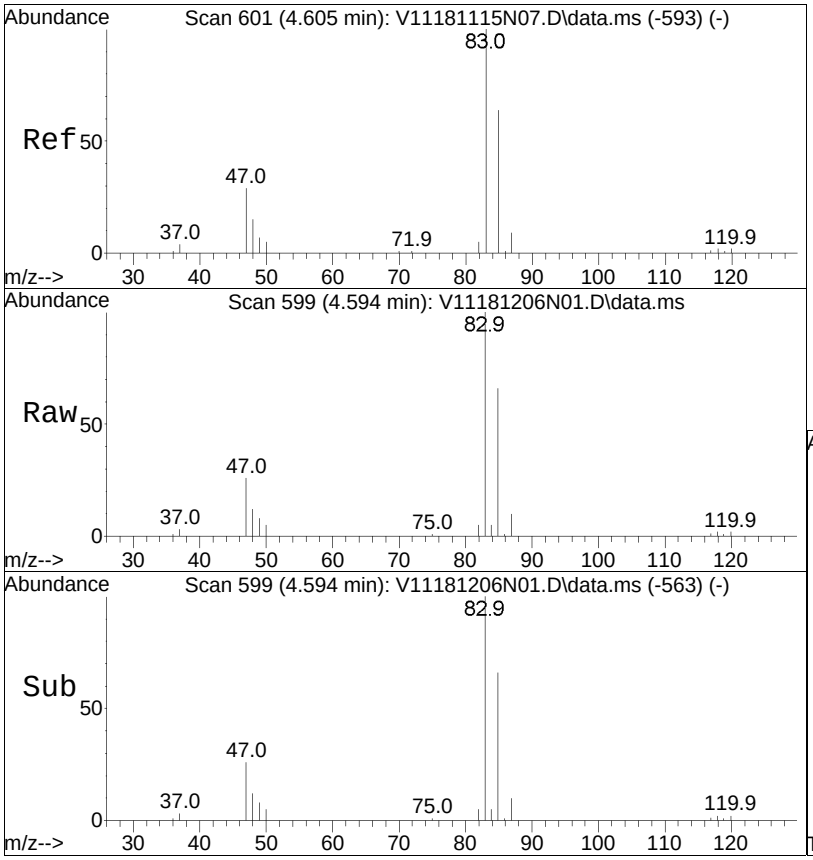


#31
Cyclohexane
Concen: 18.23 ug/L
RT: 4.526 min Scan# 586
Delta R.T. -0.011 min
Lab File: V11181206N01.D
Acq: 06 Dec 2018 14:37

Tgt Ion: 56 Resp: 34346

Ion	Ratio	Lower	Upper
56	100		
84	73.8	40.5	84.1

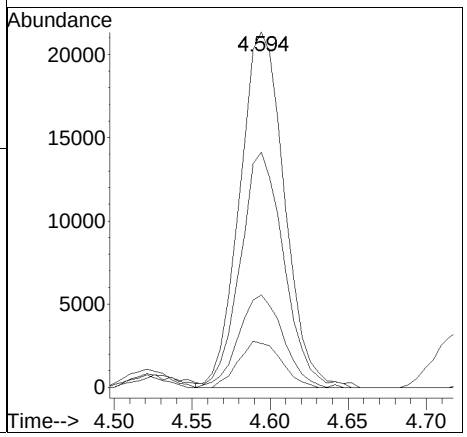


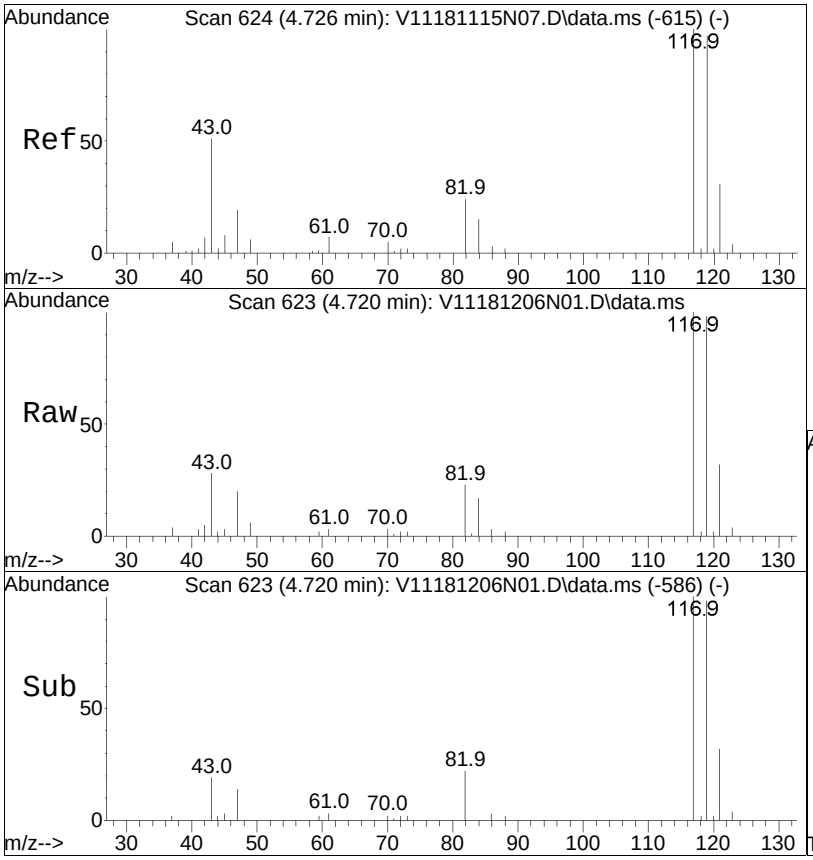


#32
Chloroform
Concen: 20.23 ug/L
RT: 4.594 min Scan# 599
Delta R.T. -0.011 min
Lab File: V11181206N01.D
Acq: 06 Dec 2018 14:37

Tgt Ion: 83 Resp: 42546

Ion	Ratio	Lower	Upper
83	100		
85	64.5	41.9	87.1
47	26.0	20.9	43.3
48	12.4	9.9	20.5

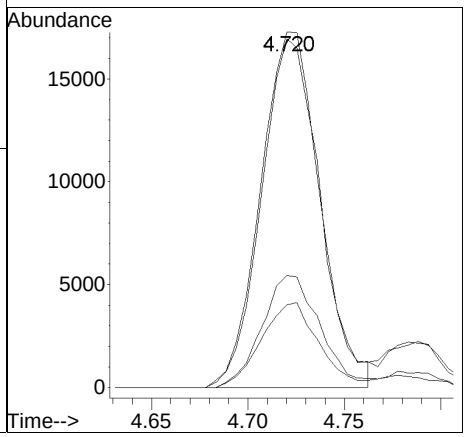


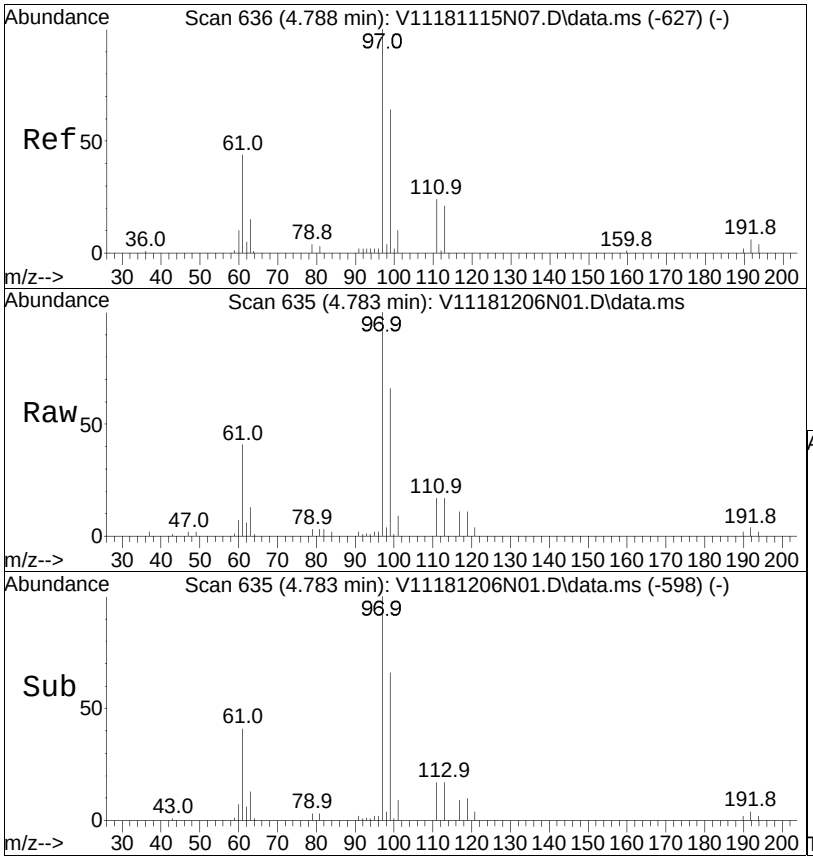


#34
Carbon tetrachloride
Concen: 23.45 ug/L
RT: 4.720 min Scan# 623
Delta R.T. -0.006 min
Lab File: V11181206N01.D
Acq: 06 Dec 2018 14:37

Tgt Ion:117 Resp: 36898

Ion	Ratio	Lower	Upper
117	100		
119	97.6	64.0	132.8
121	31.3	20.7	42.9
82	23.2	16.3	33.8

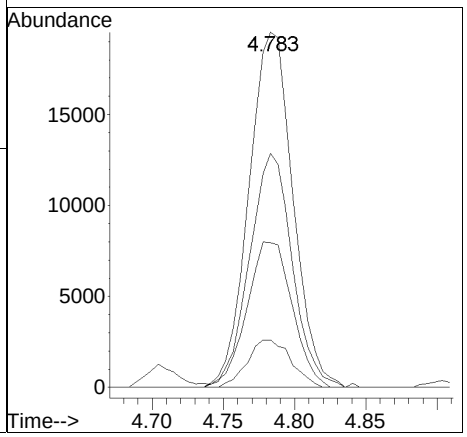


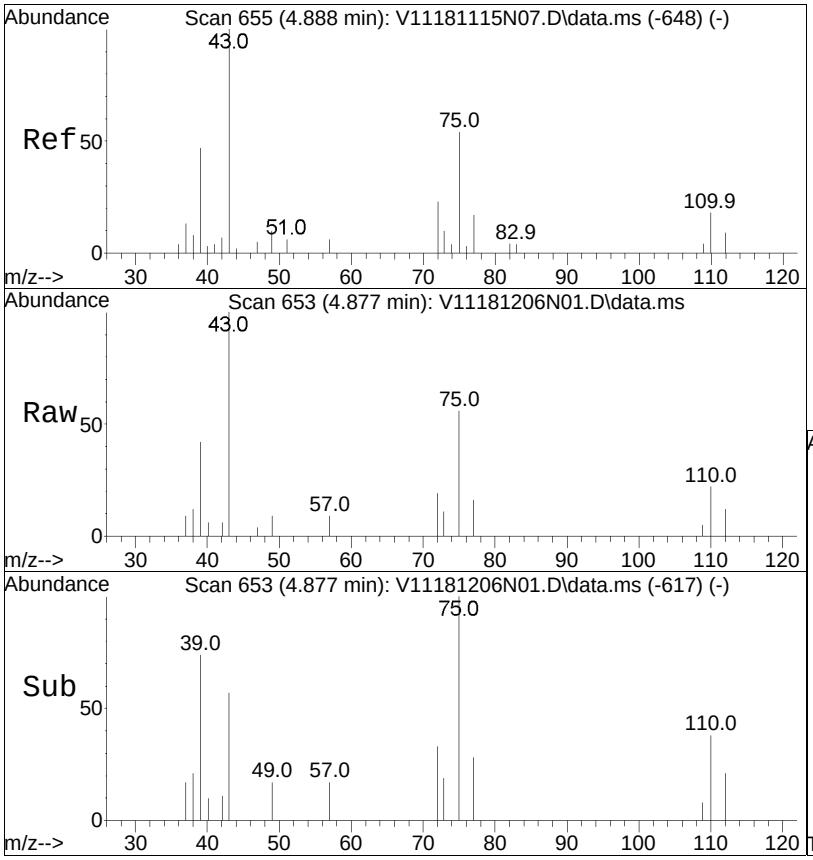


#37
1,1,1-Trichloroethane
Concen: 22.46 ug/L
RT: 4.783 min Scan# 635
Delta R.T. -0.005 min
Lab File: V11181206N01.D
Acq: 06 Dec 2018 14:37

Tgt Ion: 97 Resp: 42125

Ion	Ratio	Lower	Upper
97	100		
99	63.8	41.5	86.1
61	41.9	32.2	67.0
63	13.2	10.1	20.9

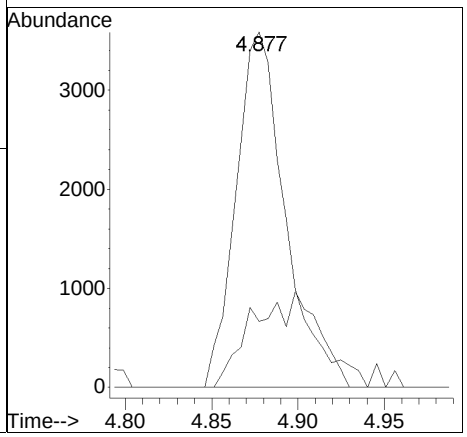


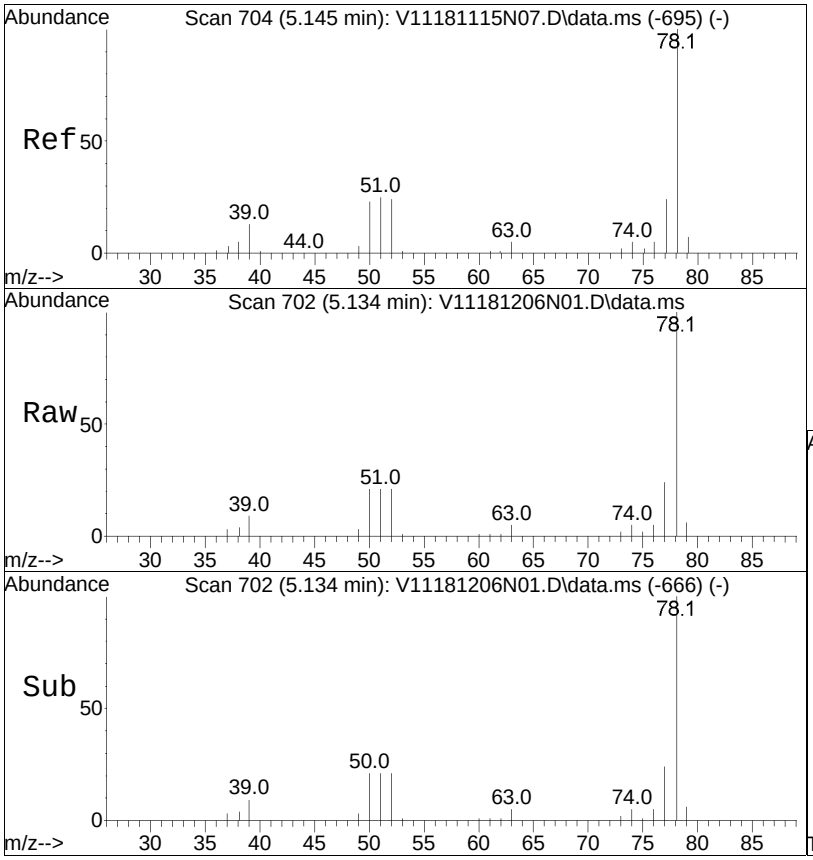


#39
2-Butanone
Concen: 14.68 ug/L
RT: 4.877 min Scan# 653
Delta R.T. -0.011 min
Lab File: V11181206N01.D
Acq: 06 Dec 2018 14:37

Tgt Ion: 43 Resp: 7229

Ion	Ratio	Lower	Upper
43	100		
72	19.7	21.0	31.6#

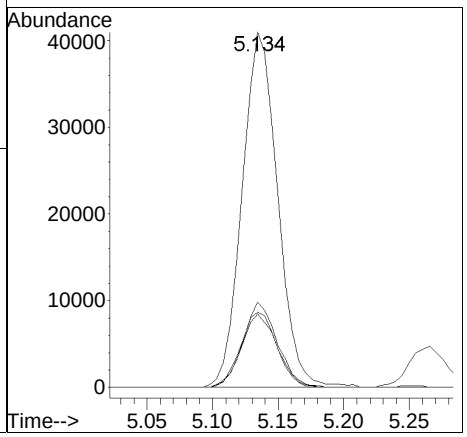


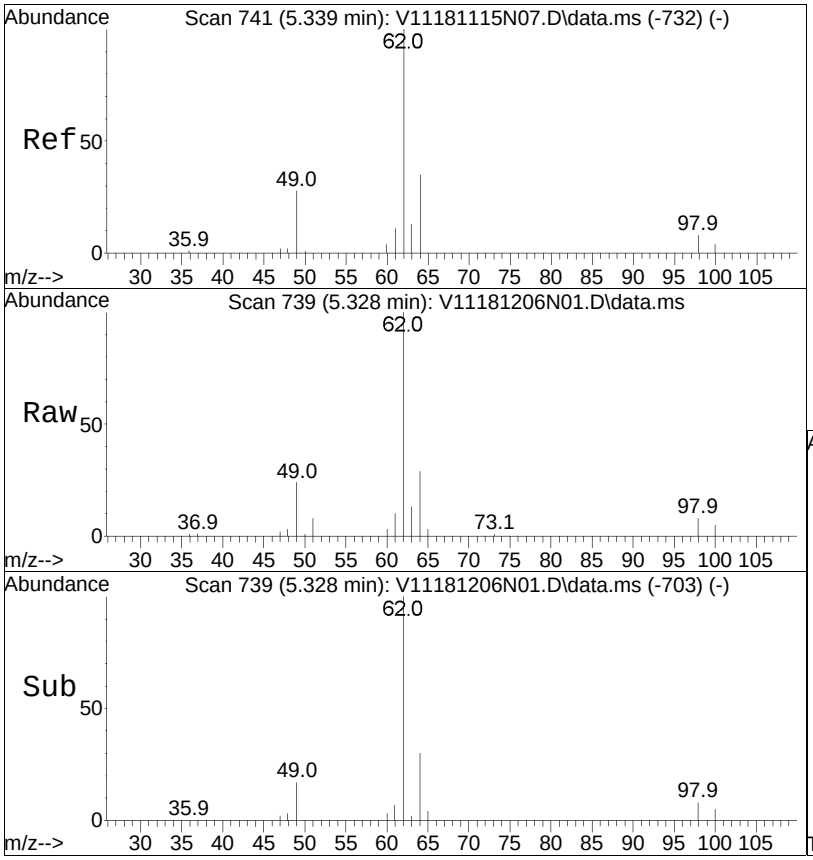


#41
Benzene
Concen: 19.59 ug/L
RT: 5.134 min Scan# 702
Delta R.T. -0.011 min
Lab File: V11181206N01.D
Acq: 06 Dec 2018 14:37

Tgt Ion: 78 Resp: 77337

Ion	Ratio	Lower	Upper
78	100		
77	23.2	15.1	31.3
51	21.9	15.8	32.8
52	20.5	15.6	32.4

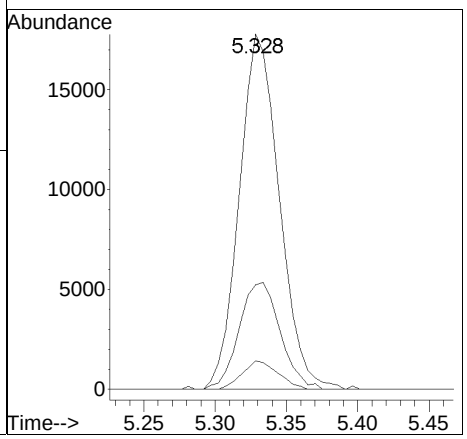


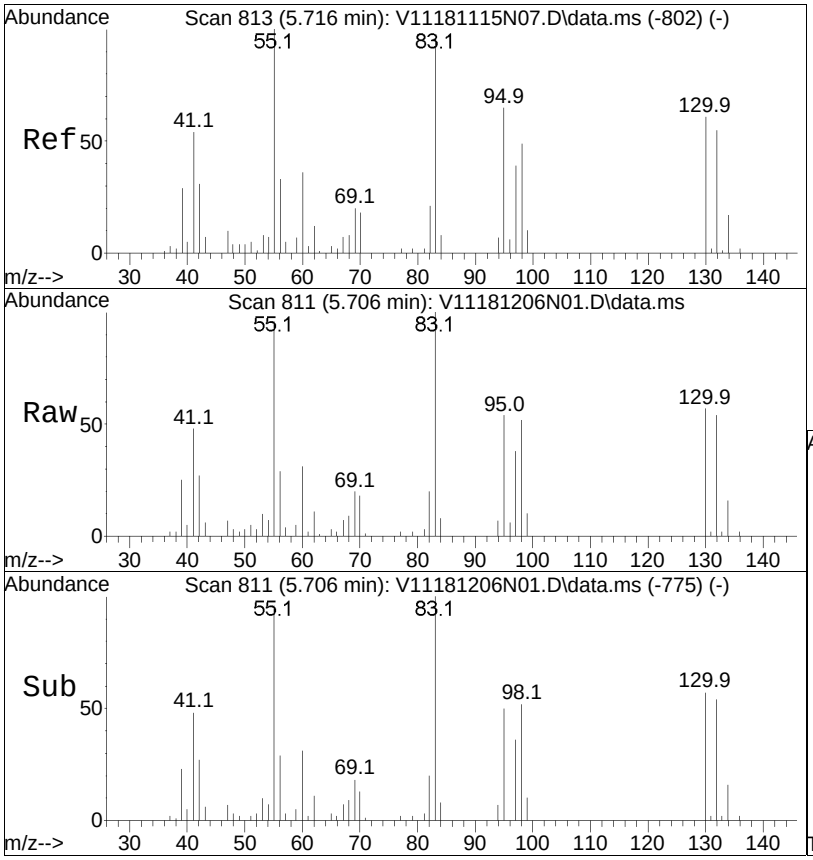


#44
1,2-Dichloroethane
Concen: 18.17 ug/L
RT: 5.328 min Scan# 739
Delta R.T. -0.011 min
Lab File: V11181206N01.D
Acq: 06 Dec 2018 14:37

Tgt Ion: 62 Resp: 34807

Ion	Ratio	Lower	Upper
62	100		
64	30.9	11.1	51.1
98	7.2	0.0	28.0

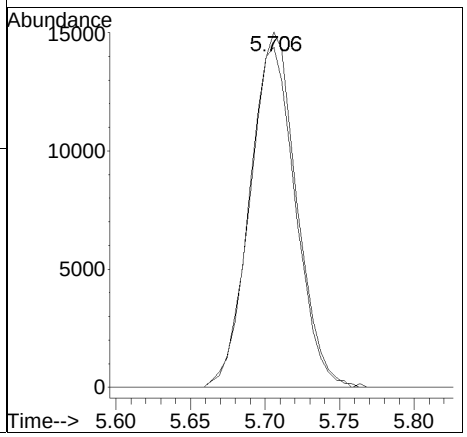


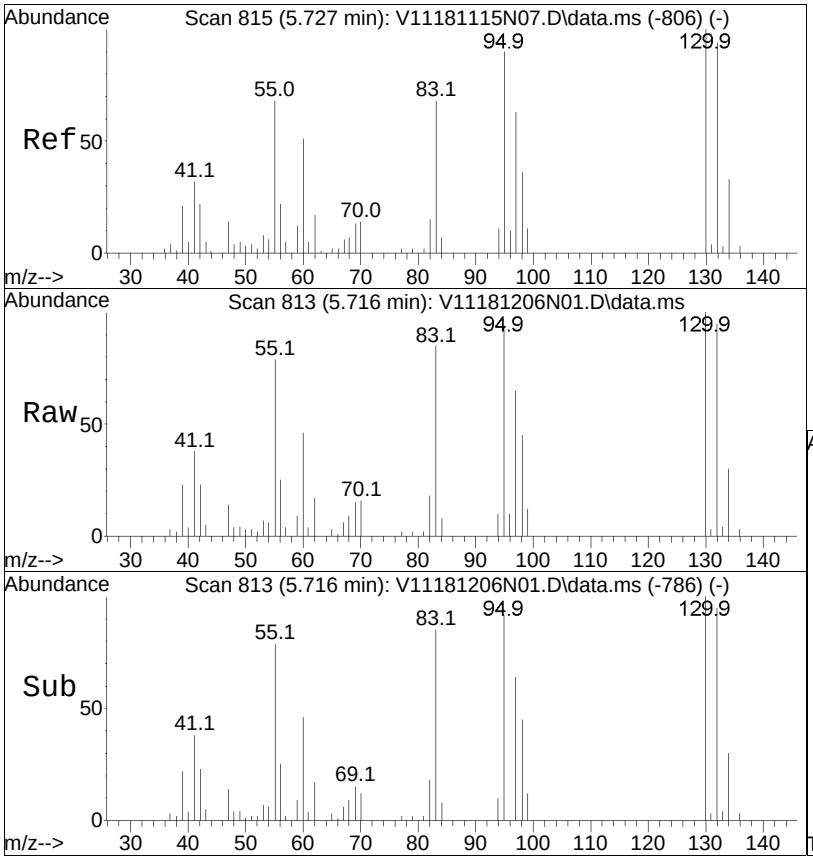


#47
Methyl cyclohexane
Concen: 21.46 ug/L
RT: 5.706 min Scan# 811
Delta R.T. -0.010 min
Lab File: V11181206N01.D
Acq: 06 Dec 2018 14:37

Tgt Ion: 83 Resp: 32247

Ion	Ratio	Lower	Upper
83	100		
55	96.5	88.1	132.1

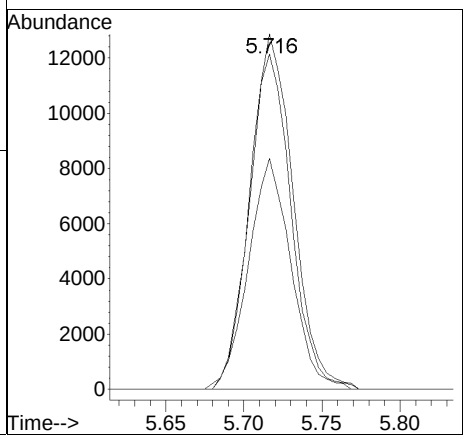


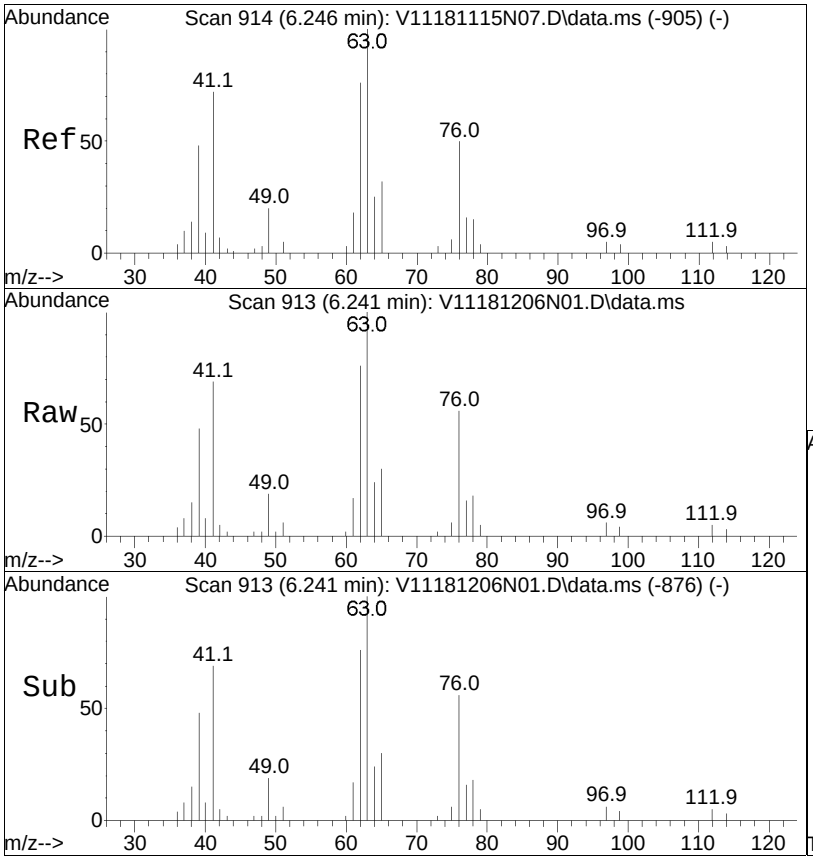


#48
Trichloroethene
Concen: 20.70 ug/L
RT: 5.716 min Scan# 813
Delta R.T. -0.011 min
Lab File: V11181206N01.D
Acq: 06 Dec 2018 14:37

Tgt Ion: 95 Resp: 22771

Ion	Ratio	Lower	Upper
95	100		
97	69.6	54.3	81.5
130	109.4	84.6	126.8

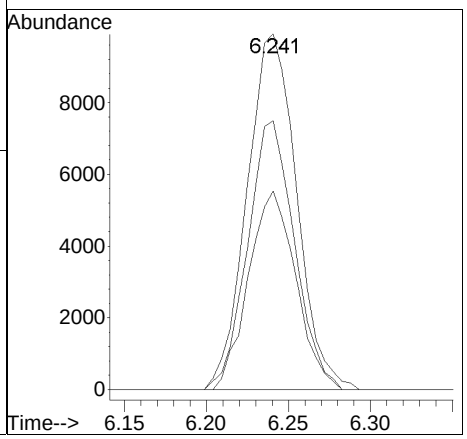


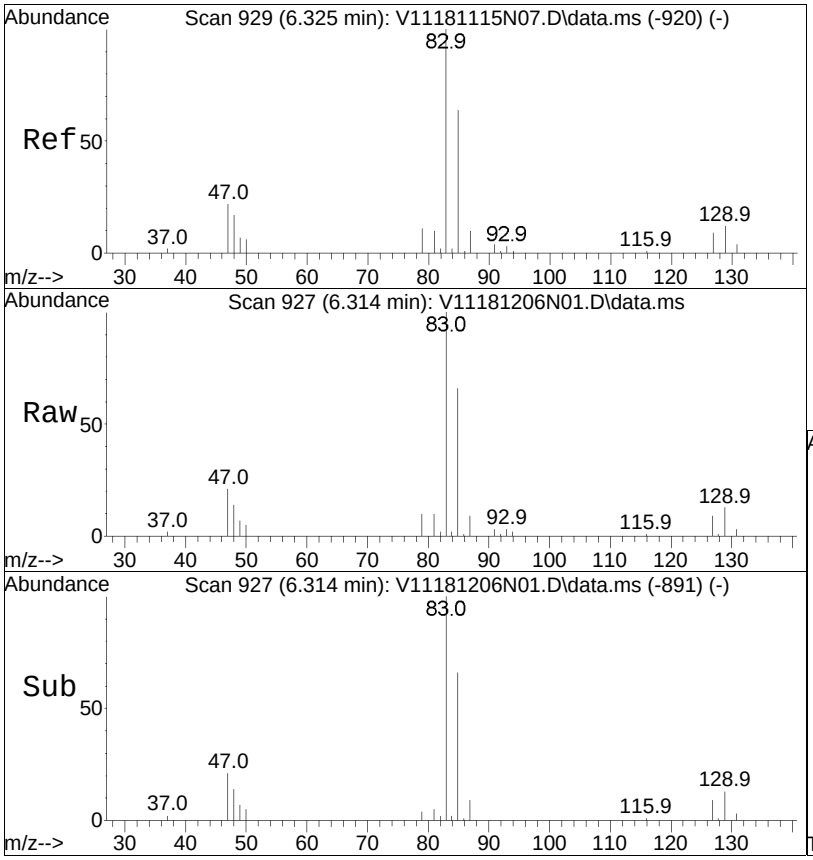


#51
1,2-Dichloropropane
Concen: 17.88 ug/L
RT: 6.241 min Scan# 913
Delta R.T. -0.005 min
Lab File: V11181206N01.D
Acq: 06 Dec 2018 14:37

Tgt Ion: 63 Resp: 20853

Ion	Ratio	Lower	Upper
63	100		
62	71.2	57.9	86.9
76	53.2	30.1	45.1#

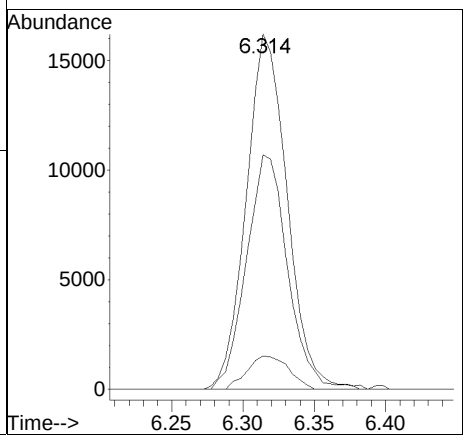


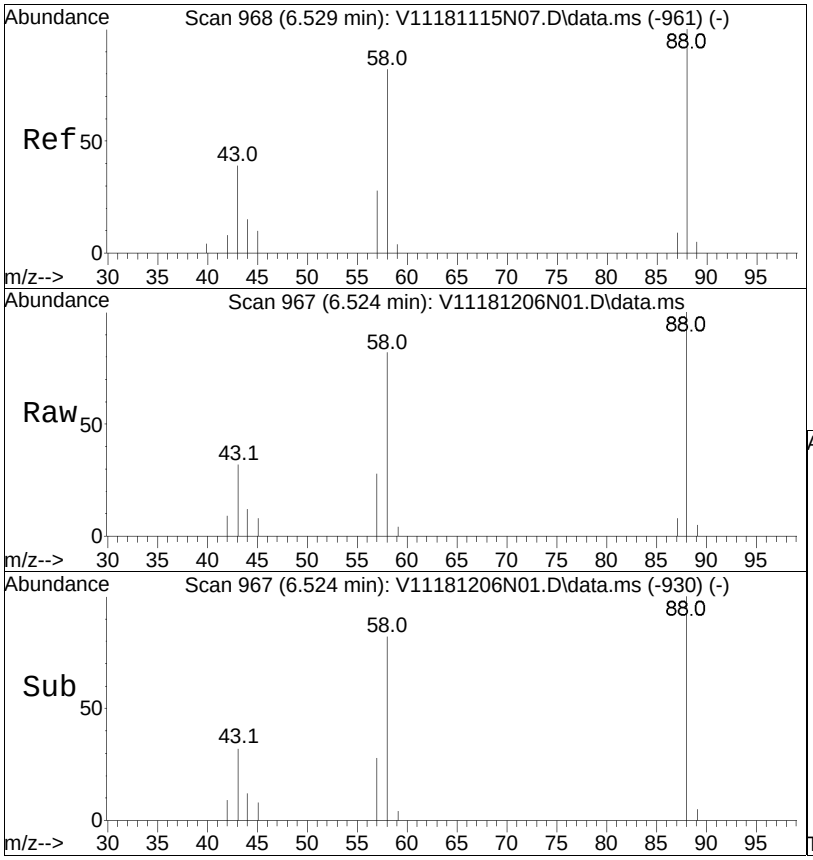


#54
Bromodichloromethane
Concen: 19.15 ug/L
RT: 6.314 min Scan# 927
Delta R.T. -0.011 min
Lab File: V11181206N01.D
Acq: 06 Dec 2018 14:37

Tgt Ion: 83 Resp: 32325

Ion	Ratio	Lower	Upper
83	100		
85	66.8	51.6	77.4
127	9.6	7.1	10.7

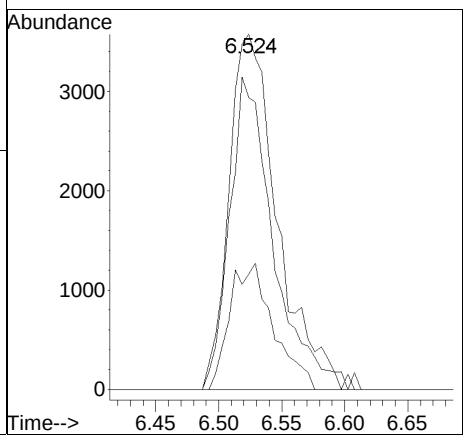


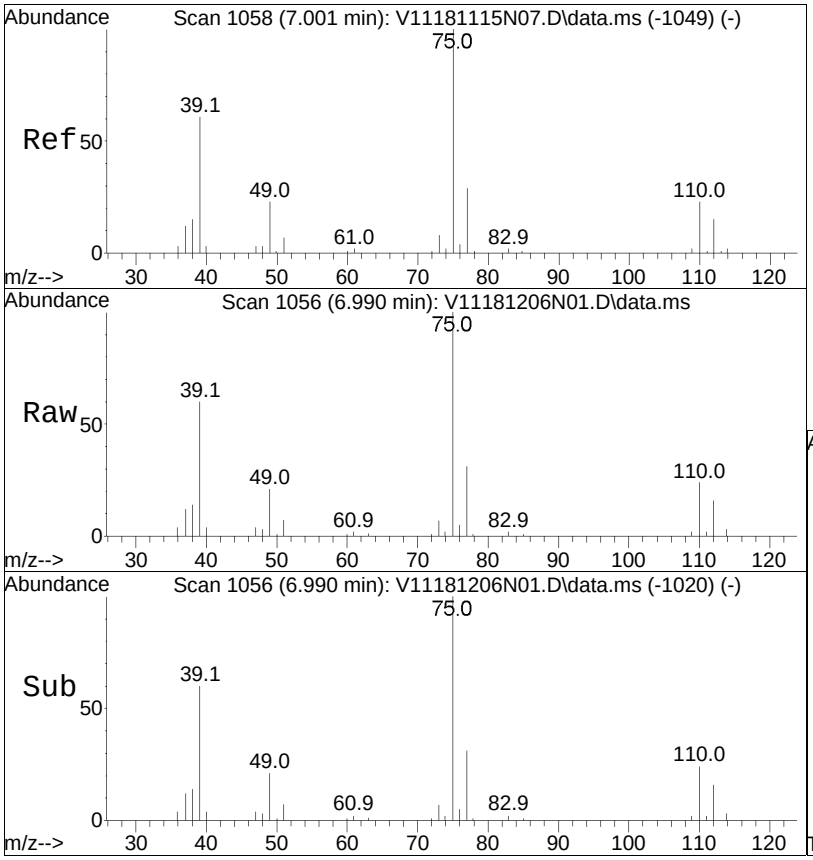


#57
1,4-Dioxane
Concen: 905.04 ug/L
RT: 6.524 min Scan# 967
Delta R.T. -0.005 min
Lab File: V11181206N01.D
Acq: 06 Dec 2018 14:37

Tgt Ion: 88 Resp: 9627

Ion	Ratio	Lower	Upper
88	100		
58	78.6	75.4	113.0
43	31.6	33.5	50.3#

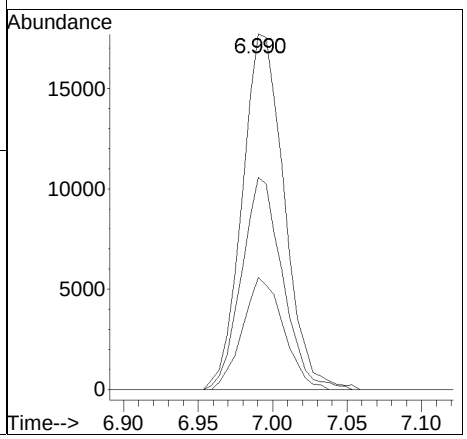


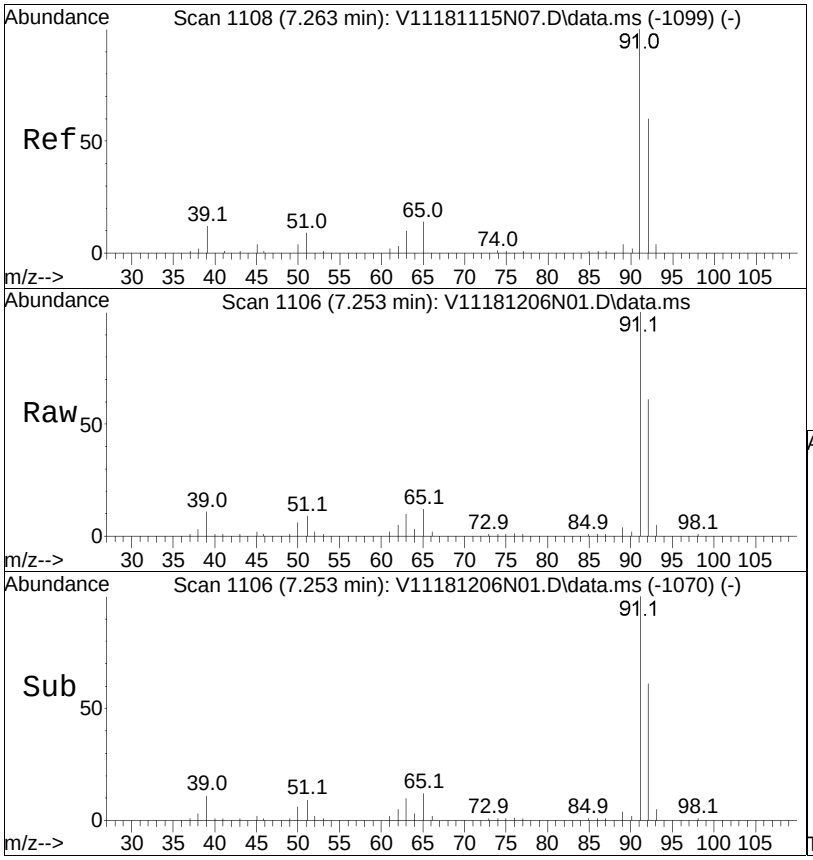


#58
cis-1,3-Dichloropropene
Concen: 19.32 ug/L
RT: 6.990 min Scan# 1056
Delta R.T. -0.011 min
Lab File: V11181206N01.D
Acq: 06 Dec 2018 14:37

Tgt Ion: 75 Resp: 34767

Ion	Ratio	Lower	Upper
75	100		
77	30.7	24.9	37.3
39	58.2	51.8	77.8

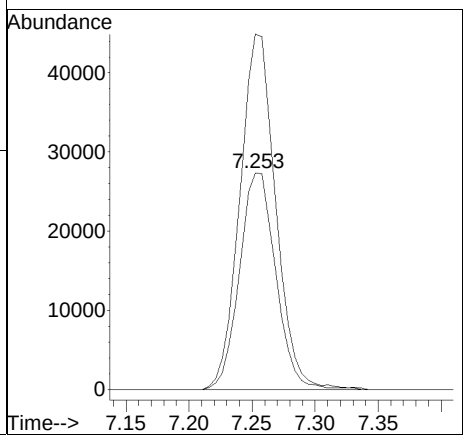


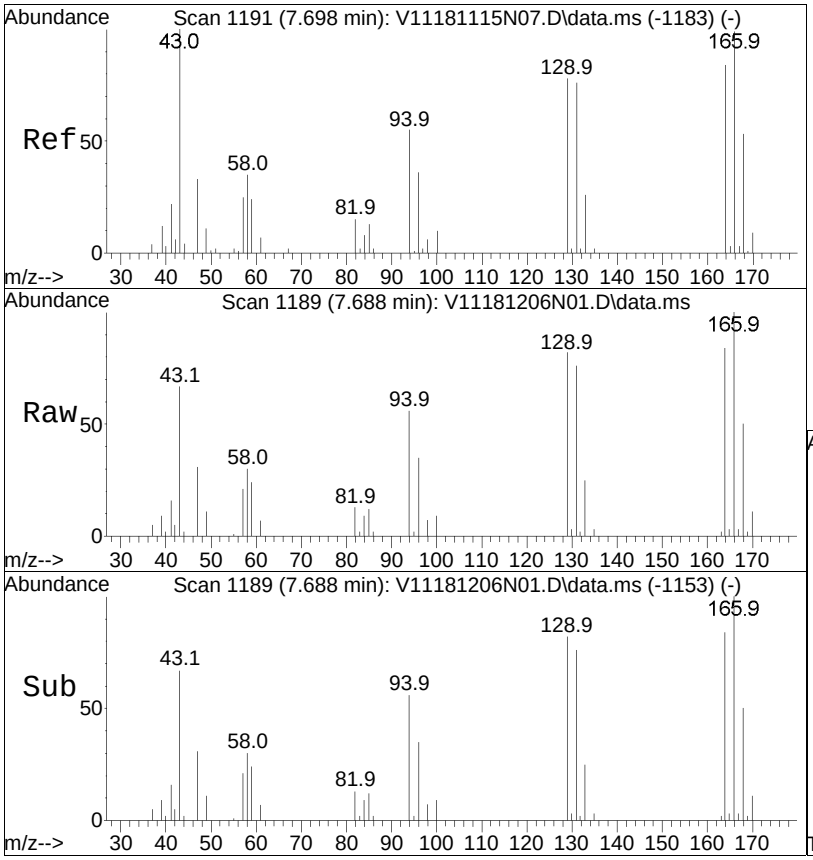


#61
Toluene
Concen: 21.62 ug/L
RT: 7.253 min Scan# 1106
Delta R.T. -0.010 min
Lab File: V11181206N01.D
Acq: 06 Dec 2018 14:37

Tgt Ion: 92 Resp: 54652

Ion	Ratio	Lower	Upper
92	100		
91	161.9	133.7	200.5

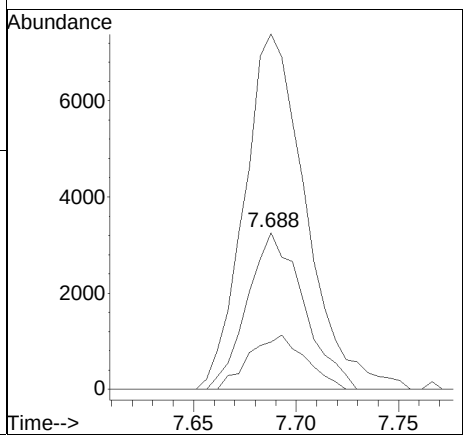


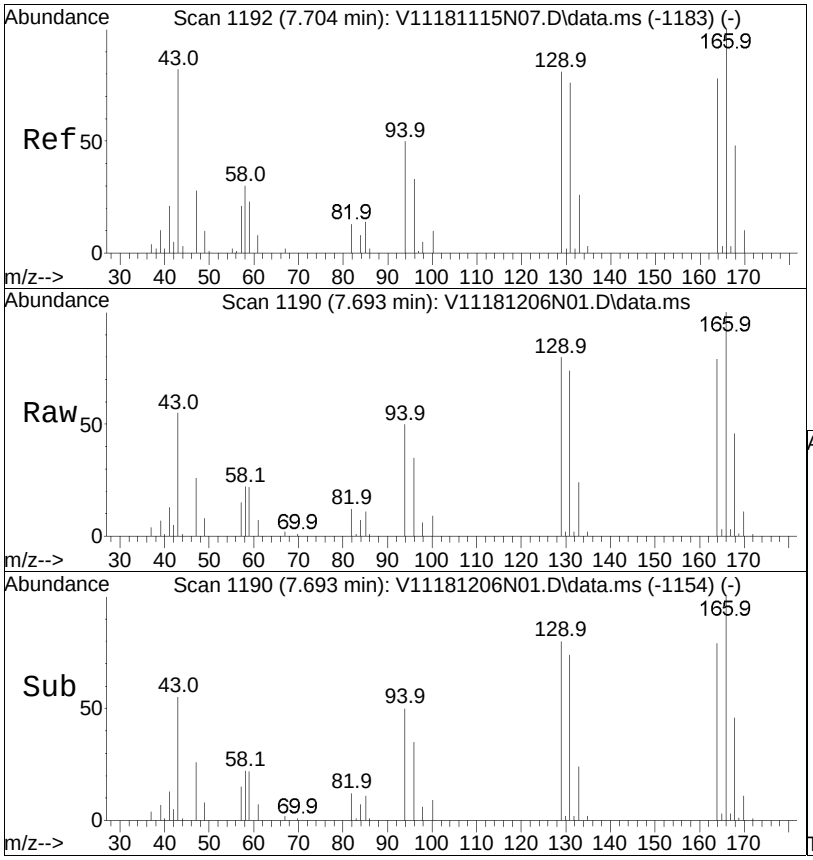


#62
4-Methyl-2-pentanone
Concen: 15.29 ug/L
RT: 7.688 min Scan# 1189
Delta R.T. -0.010 min
Lab File: V11181206N01.D
Acq: 06 Dec 2018 14:37

Tgt Ion: 58 Resp: 6247

Ion	Ratio	Lower	Upper
58	100		
100	34.6	22.0	33.0#
43	247.8	236.9	355.3

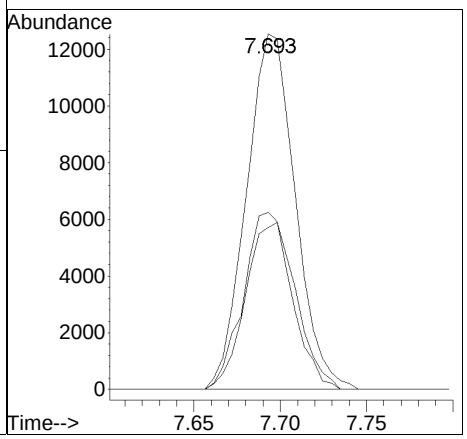


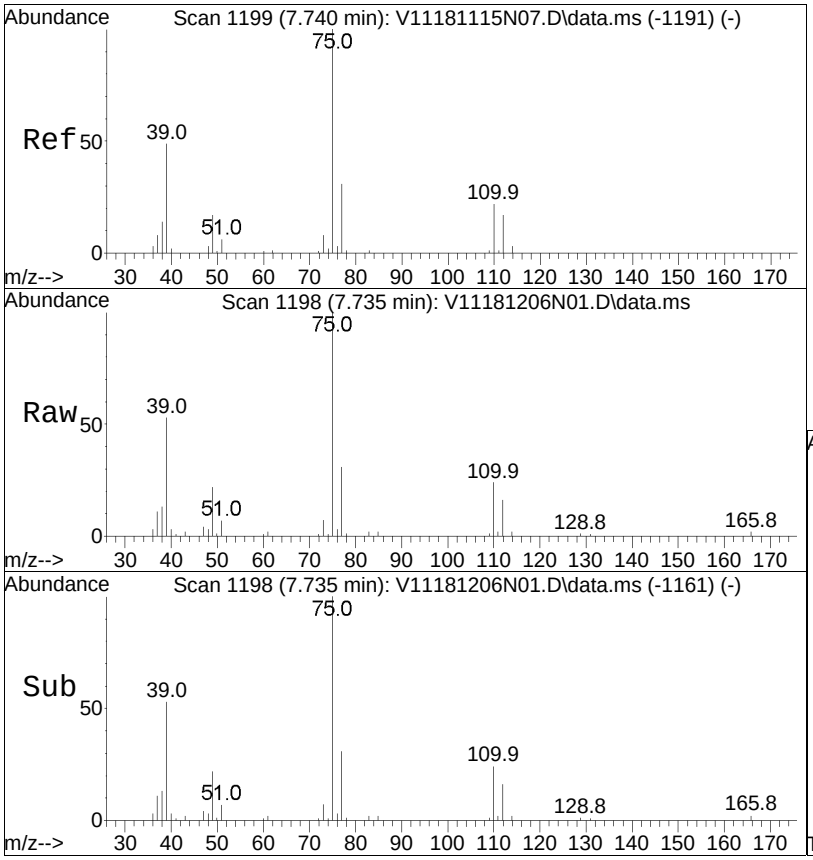


#63
Tetrachloroethene
Concen: 23.54 ug/L
RT: 7.693 min Scan# 1190
Delta R.T. -0.011 min
Lab File: V11181206N01.D
Acq: 06 Dec 2018 14:37

Tgt Ion:166 Resp: 24720

Ion	Ratio	Lower	Upper
166	100		
168	48.6	28.2	68.2
94	49.1	26.3	66.3

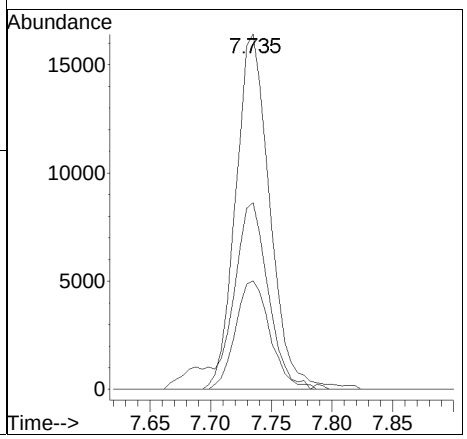


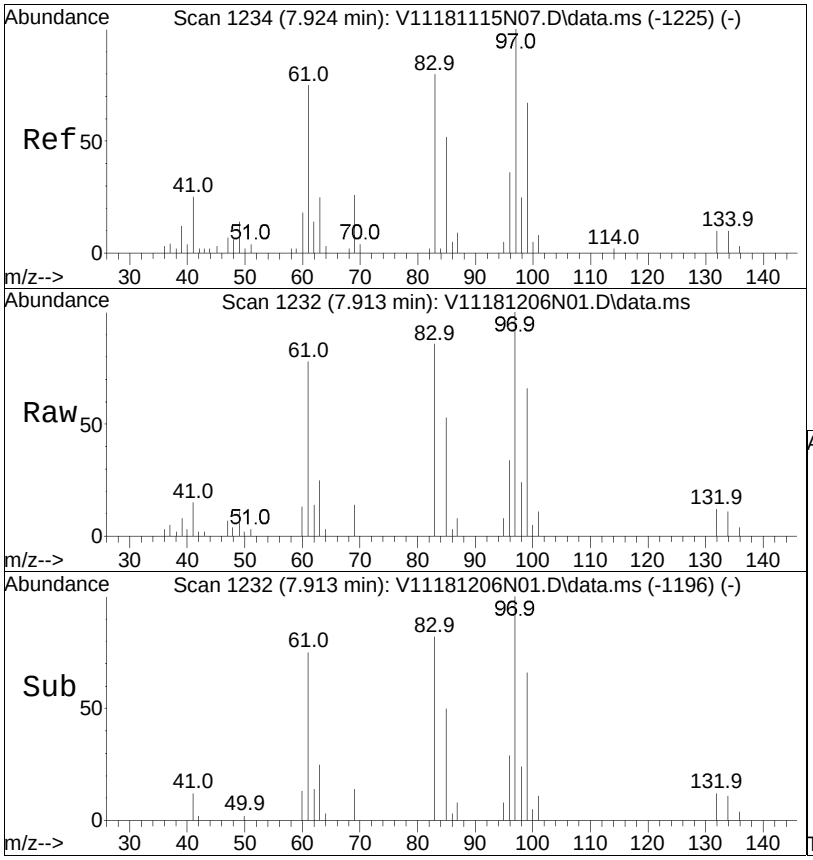


#65
trans-1,3-Dichloropropene
Concen: 19.82 ug/L
RT: 7.735 min Scan# 1198
Delta R.T. -0.005 min
Lab File: V11181206N01.D
Acq: 06 Dec 2018 14:37

Tgt Ion: 75 Resp: 32231

Ion	Ratio	Lower	Upper
75	100		
77	31.0	11.4	51.4
39	51.4	50.3	90.3

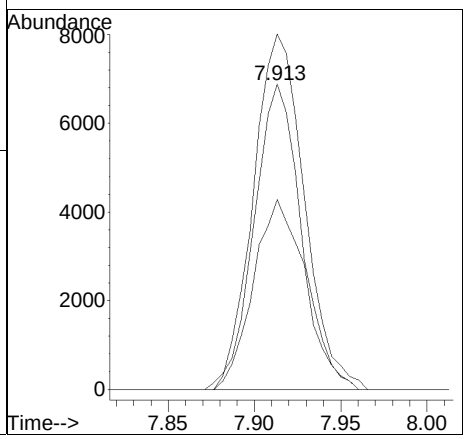


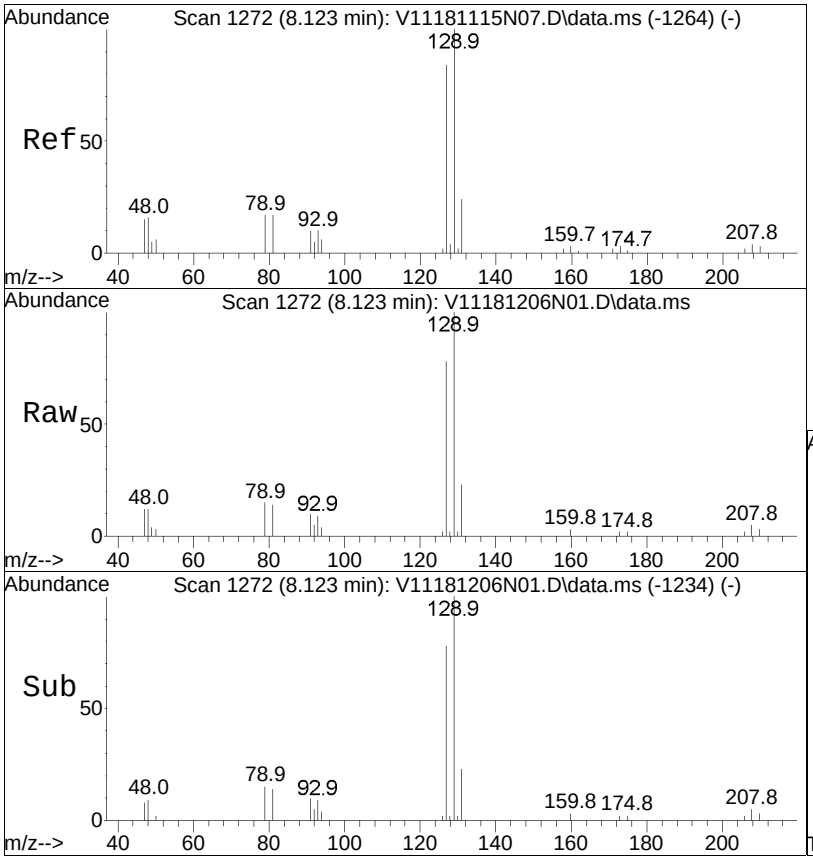


#68
1,1,2-Trichloroethane
Concen: 18.67 ug/L
RT: 7.913 min Scan# 1232
Delta R.T. -0.011 min
Lab File: V11181206N01.D
Acq: 06 Dec 2018 14:37

Tgt Ion: 83 Resp: 13150

Ion	Ratio	Lower	Upper
83	100		
97	125.5	97.6	137.6
85	68.1	46.8	86.8

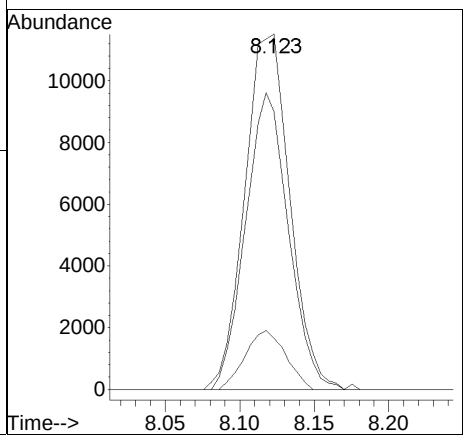


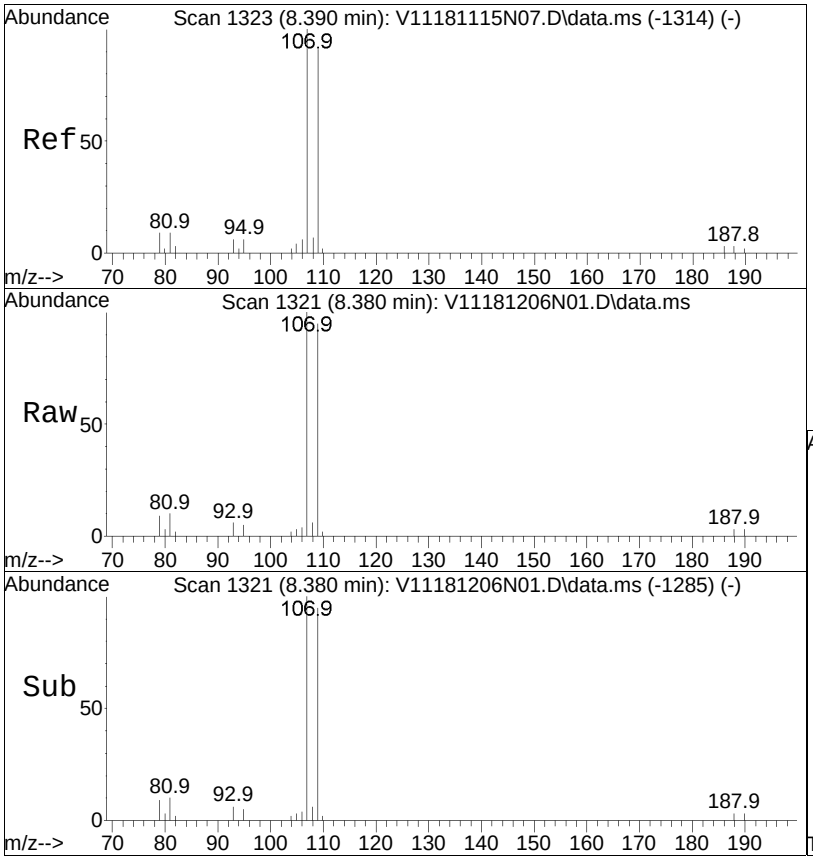


#69
Chlorodibromomethane
Concen: 19.95 ug/L
RT: 8.123 min Scan# 1272
Delta R.T. -0.000 min
Lab File: V11181206N01.D
Acq: 06 Dec 2018 14:37

Tgt Ion:129 Resp: 24318

Ion	Ratio	Lower	Upper
129	100		
81	14.9	0.0	36.0
127	79.1	56.0	96.0

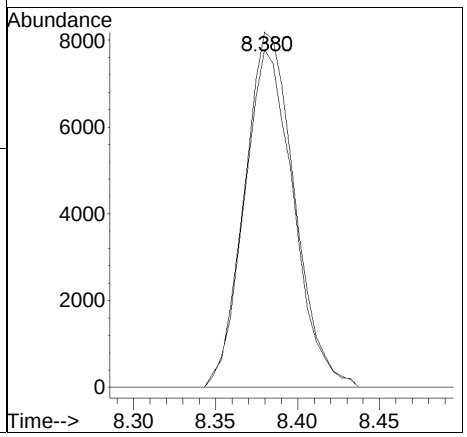


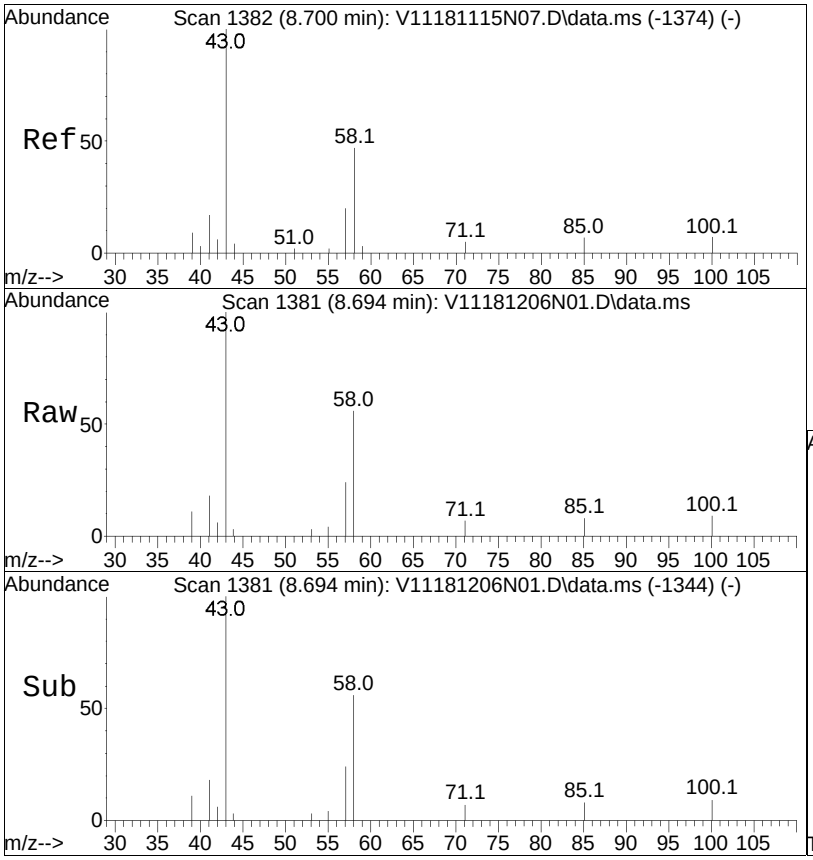


#71
1,2-Dibromoethane
Concen: 19.65 ug/L
RT: 8.380 min Scan# 1321
Delta R.T. -0.010 min
Lab File: V11181206N01.D
Acq: 06 Dec 2018 14:37

Tgt Ion:107 Resp: 17398

Ion	Ratio	Lower	Upper
107	100		
109	93.3	76.2	114.4

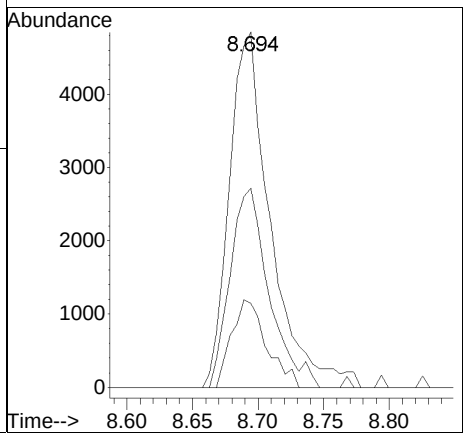


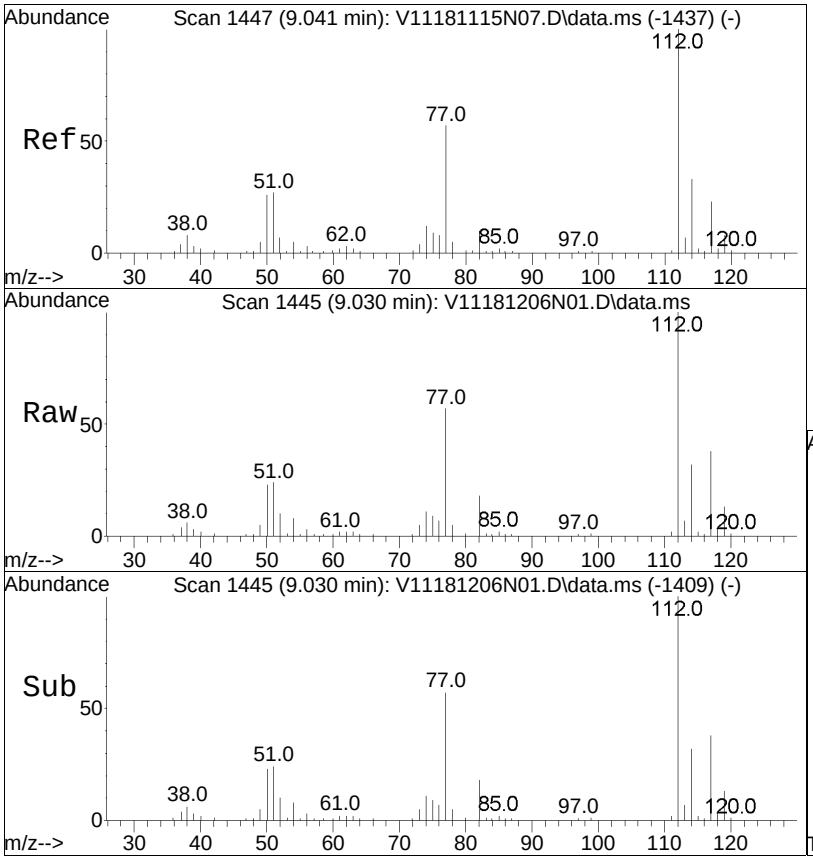


#72
2-Hexanone
Concen: 14.45 ug/L
RT: 8.694 min Scan# 1381
Delta R.T. -0.006 min
Lab File: V11181206N01.D
Acq: 06 Dec 2018 14:37

Tgt Ion: 43 Resp: 10596

Ion	Ratio	Lower	Upper
43	100		
58	52.9	37.9	56.9
57	21.0	12.6	19.0#

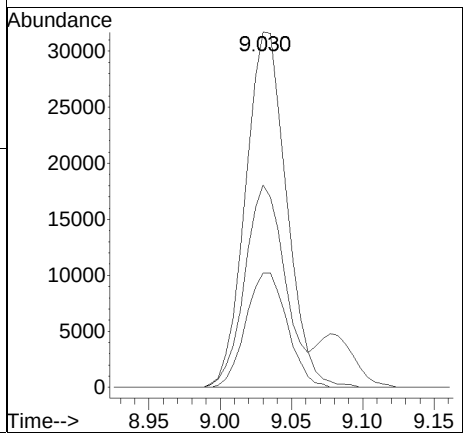


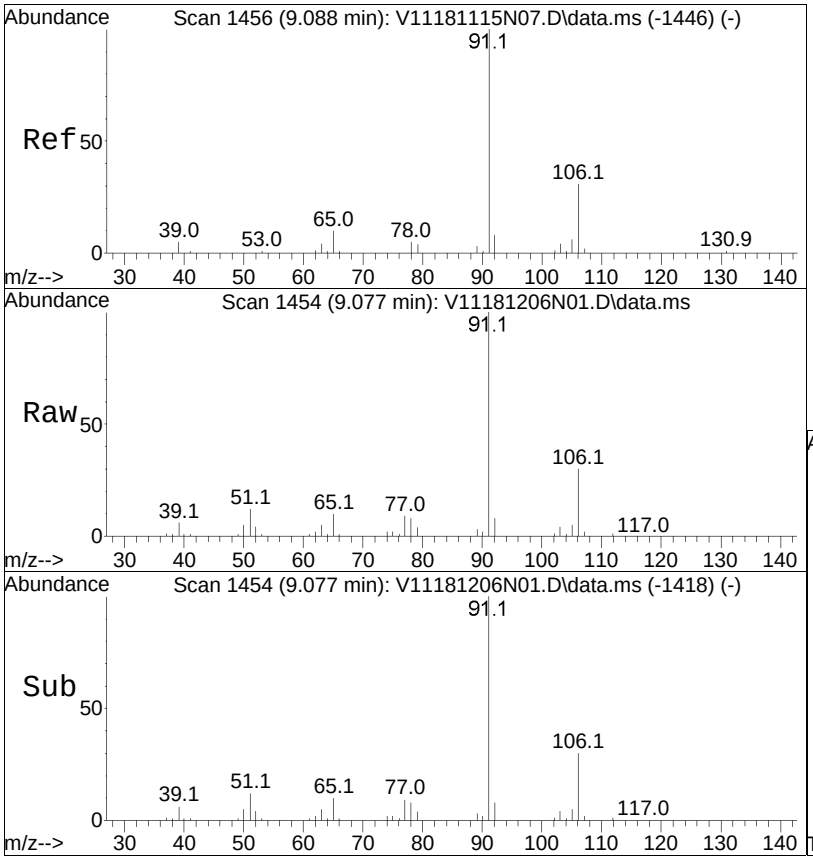


#73
Chlorobenzene
Concen: 20.66 ug/L
RT: 9.030 min Scan# 1445
Delta R.T. -0.011 min
Lab File: V11181206N01.D
Acq: 06 Dec 2018 14:37

Tgt Ion:112 Resp: 63531

Ion	Ratio	Lower	Upper
112	100		
77	56.1	47.0	70.4
114	32.5	25.9	38.9

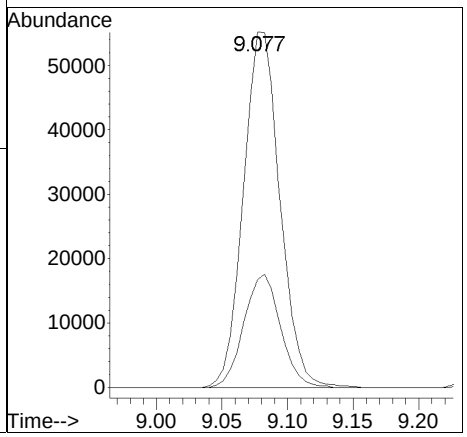


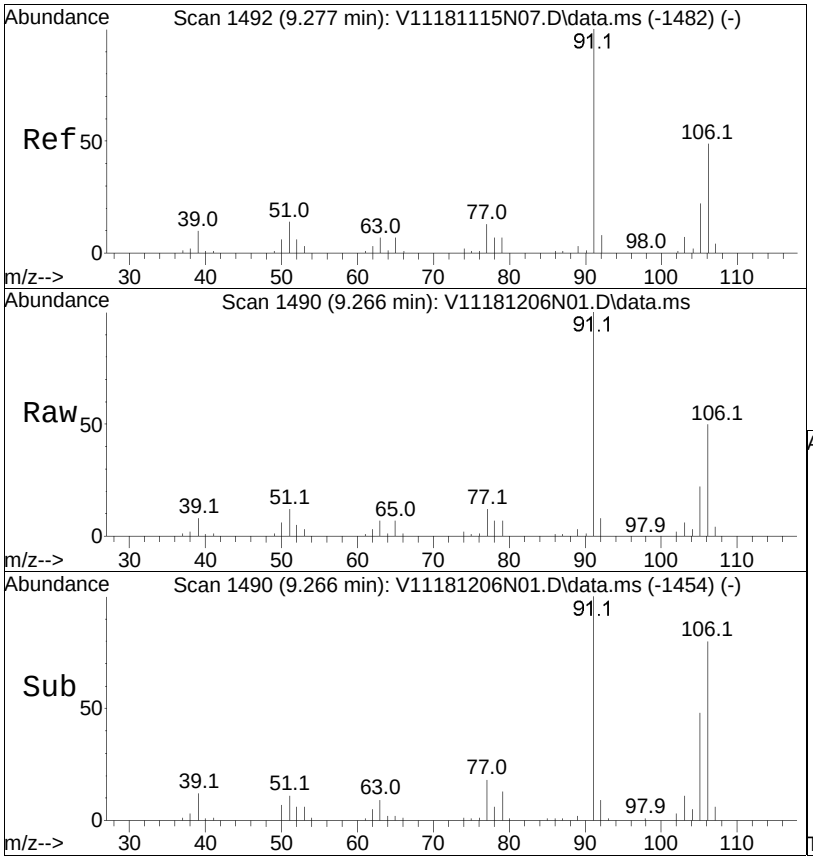


#74
Ethylbenzene
Concen: 21.49 ug/L
RT: 9.077 min Scan# 1454
Delta R.T. -0.011 min
Lab File: V11181206N01.D
Acq: 06 Dec 2018 14:37

Tgt Ion: 91 Resp: 106916

Ion	Ratio	Lower	Upper
91	100		
106	31.8	25.0	37.4

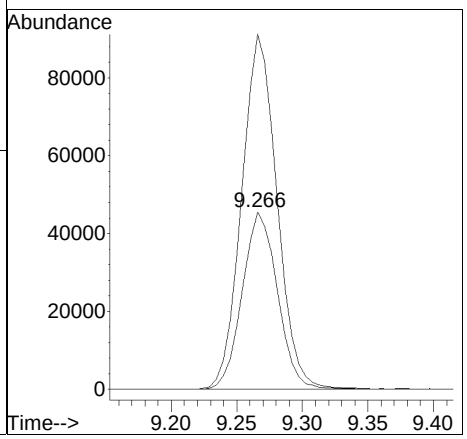


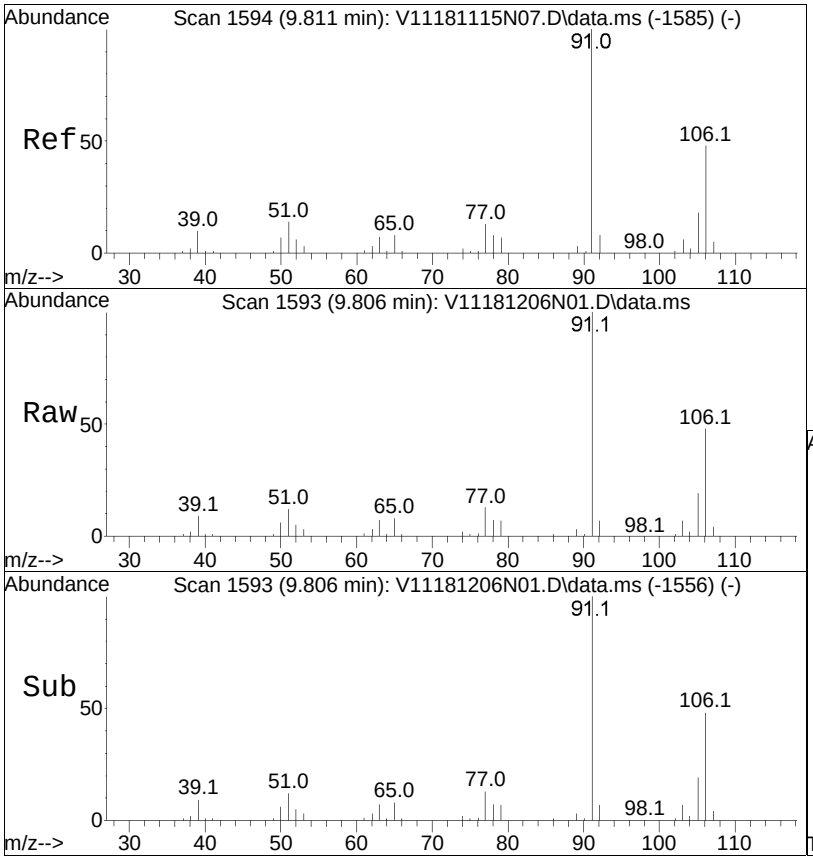


#76
p/m Xylene
Concen: 43.28 ug/L
RT: 9.266 min Scan# 1490
Delta R.T. -0.011 min
Lab File: V11181206N01.D
Acq: 06 Dec 2018 14:37

Tgt Ion:106 Resp: 85204

Ion	Ratio	Lower	Upper
106	100		
91	200.5	159.3	238.9

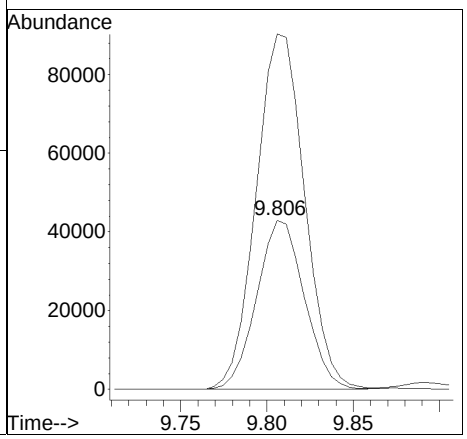


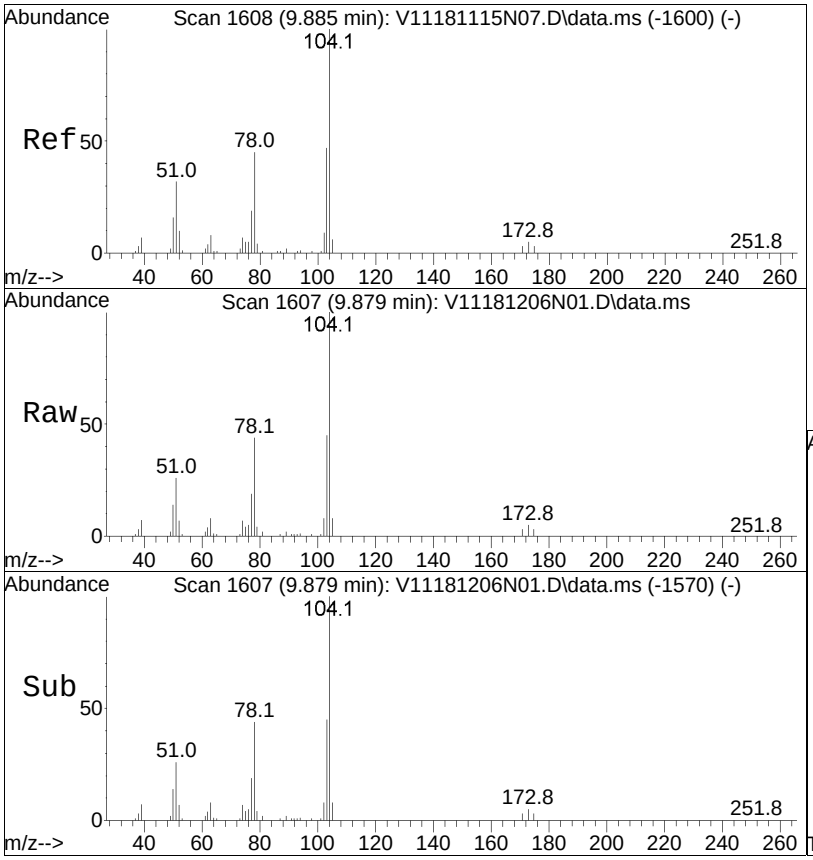


#77
o Xylene
Concen: 41.88 ug/L
RT: 9.806 min Scan# 1593
Delta R.T. -0.005 min
Lab File: V11181206N01.D
Acq: 06 Dec 2018 14:37

Tgt Ion:106 Resp: 82428

Ion	Ratio	Lower	Upper
106	100		
91	214.1	170.2	255.2

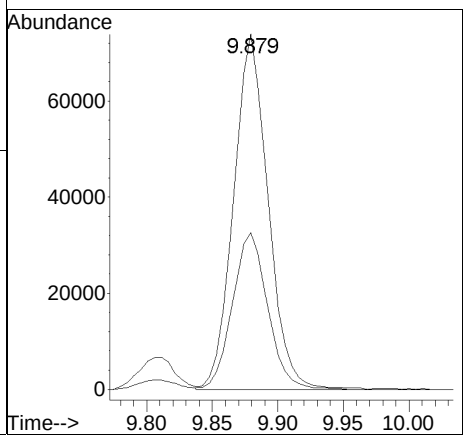


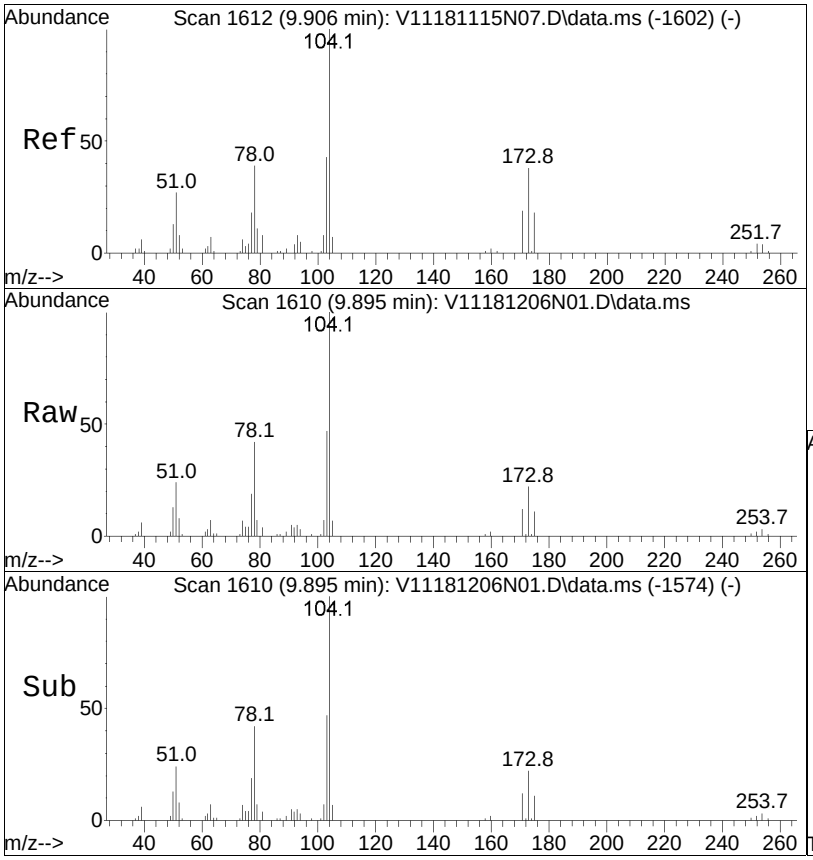


#78
Styrene
Concen: 41.29 ug/L
RT: 9.879 min Scan# 1607
Delta R.T. -0.006 min
Lab File: V11181206N01.D
Acq: 06 Dec 2018 14:37

Tgt Ion:104 Resp: 135038

Ion	Ratio	Lower	Upper
104	100		
78	44.9	34.4	51.6

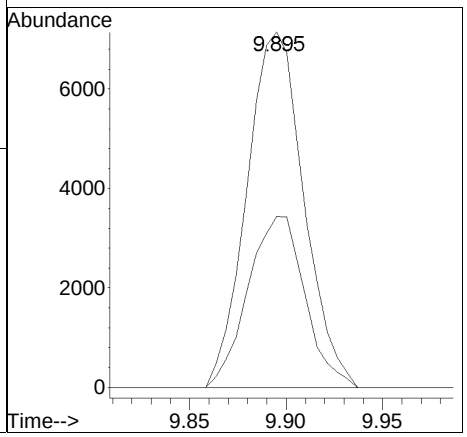


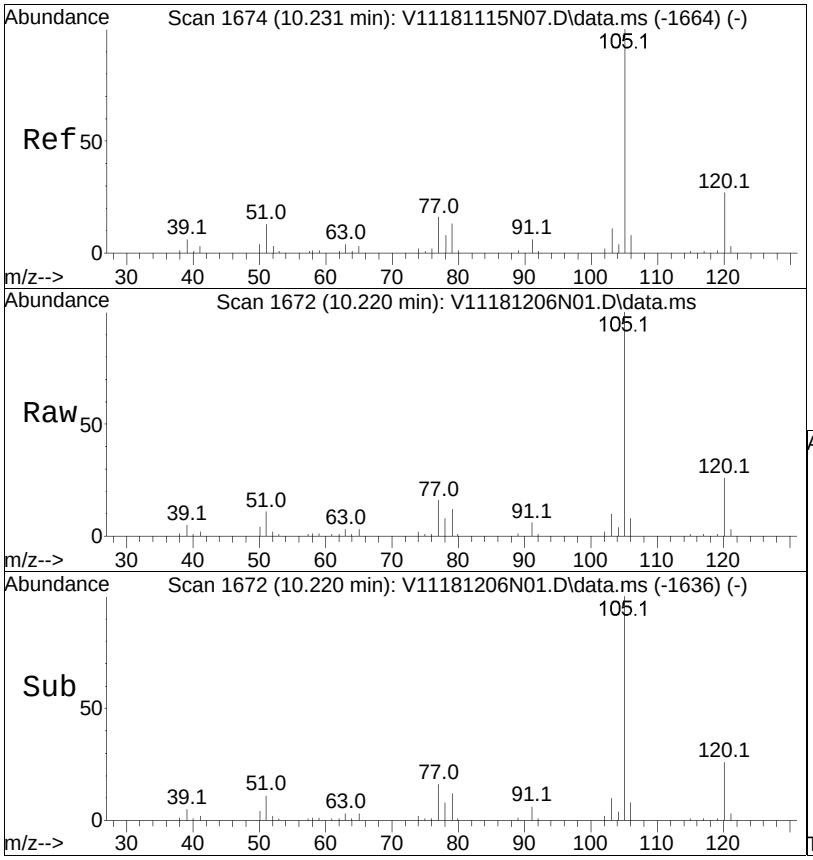


#80
Bromoform
Concen: 21.39 ug/L
RT: 9.895 min Scan# 1610
Delta R.T. -0.011 min
Lab File: V11181206N01.D
Acq: 06 Dec 2018 14:37

Tgt Ion:173 Resp: 14684

Ion	Ratio	Lower	Upper
173	100		
175	48.0	28.1	68.1

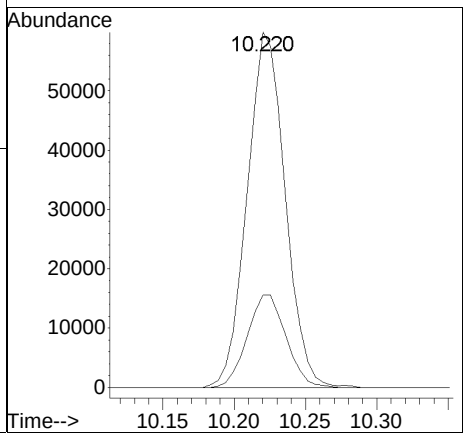


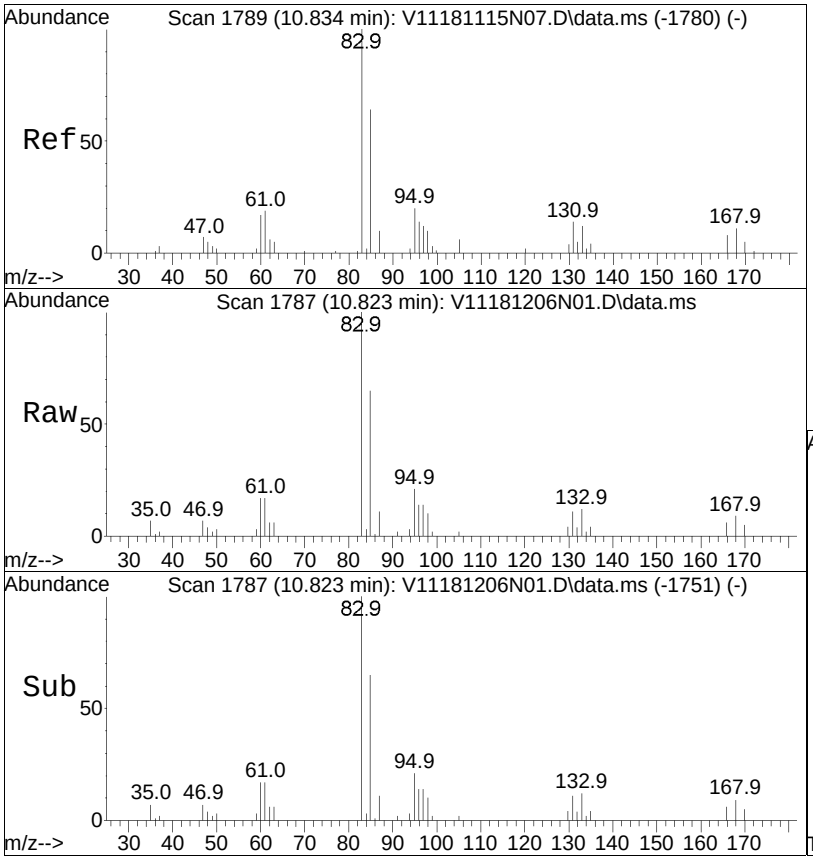


#82
Isopropylbenzene
Concen: 23.13 ug/L
RT: 10.220 min Scan# 1672
Delta R.T. -0.011 min
Lab File: V11181206N01.D
Acq: 06 Dec 2018 14:37

Tgt Ion:105 Resp: 110928

Ion	Ratio	Lower	Upper
105	100		
120	26.5	6.9	46.9

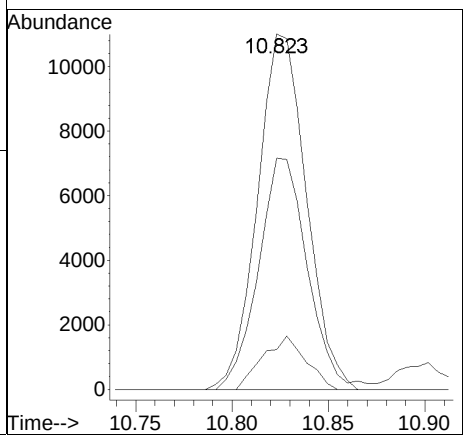


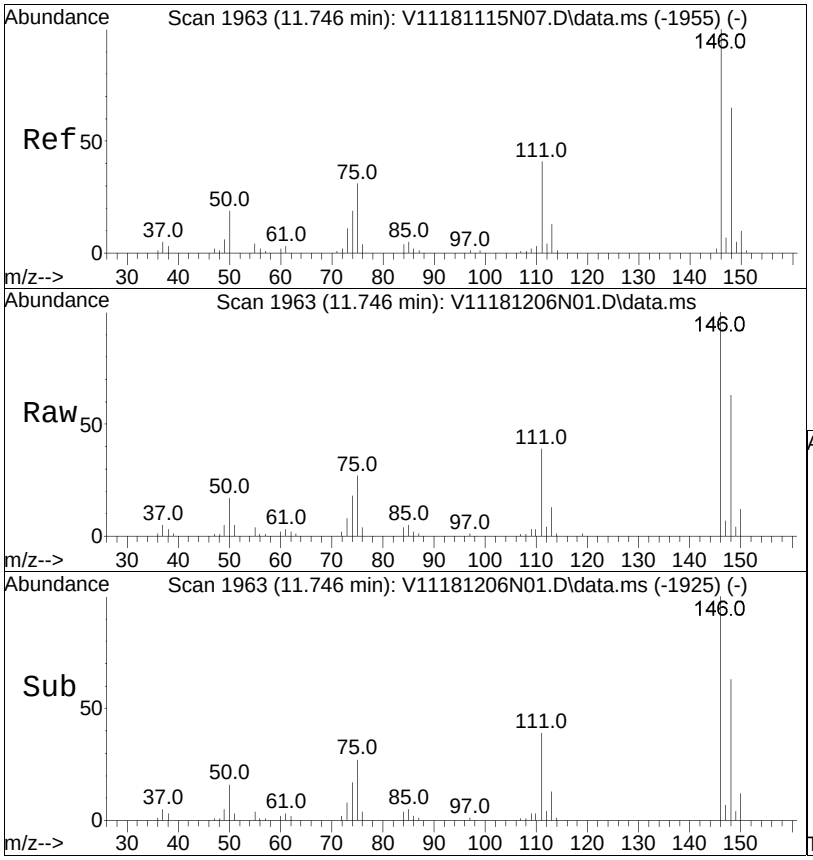


#87
1,1,2,2-Tetrachloroethane
Concen: 18.83 ug/L
RT: 10.823 min Scan# 1787
Delta R.T. -0.011 min
Lab File: V11181206N01.D
Acq: 06 Dec 2018 14:37

Tgt Ion: 83 Resp: 19386

Ion	Ratio	Lower	Upper
83	100		
131	13.2	0.0	30.1
85	65.3	45.8	85.8

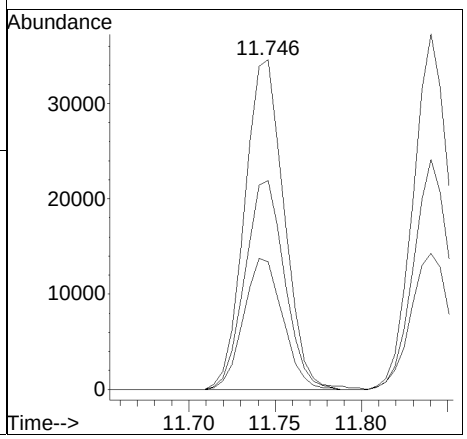


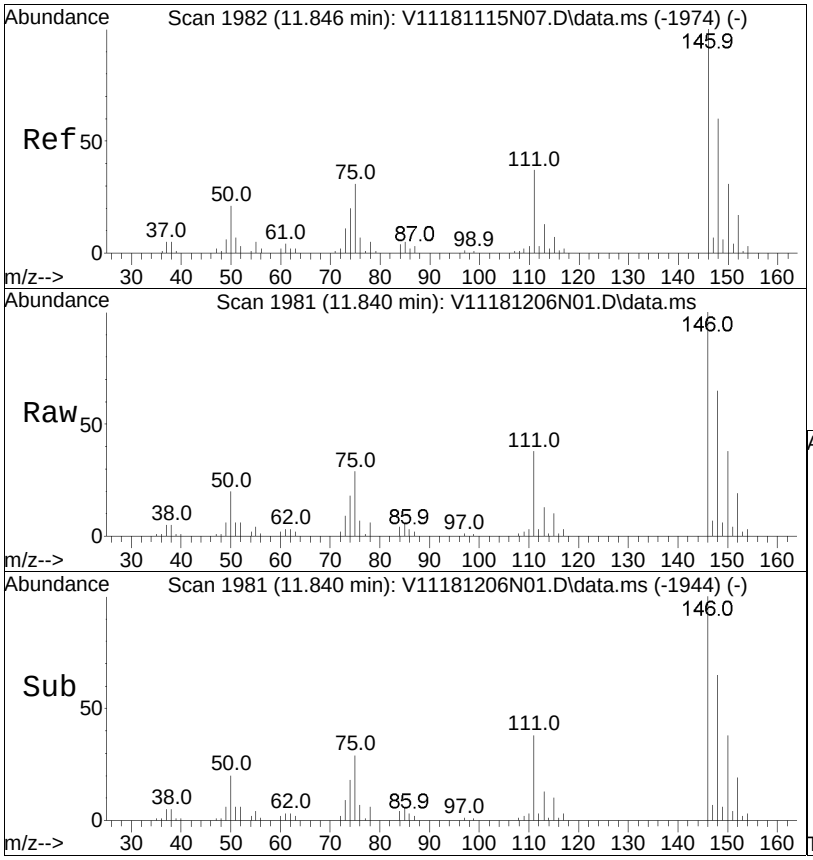


#100
1,3-Dichlorobenzene
Concen: 22.03 ug/L
RT: 11.746 min Scan# 1963
Delta R.T. -0.000 min
Lab File: V11181206N01.D
Acq: 06 Dec 2018 14:37

Tgt Ion:146 Resp: 55133

Ion	Ratio	Lower	Upper
146	100		
111	39.4	25.6	53.2
148	63.4	41.3	85.9

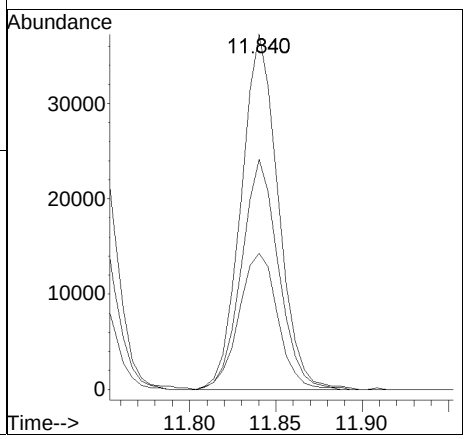


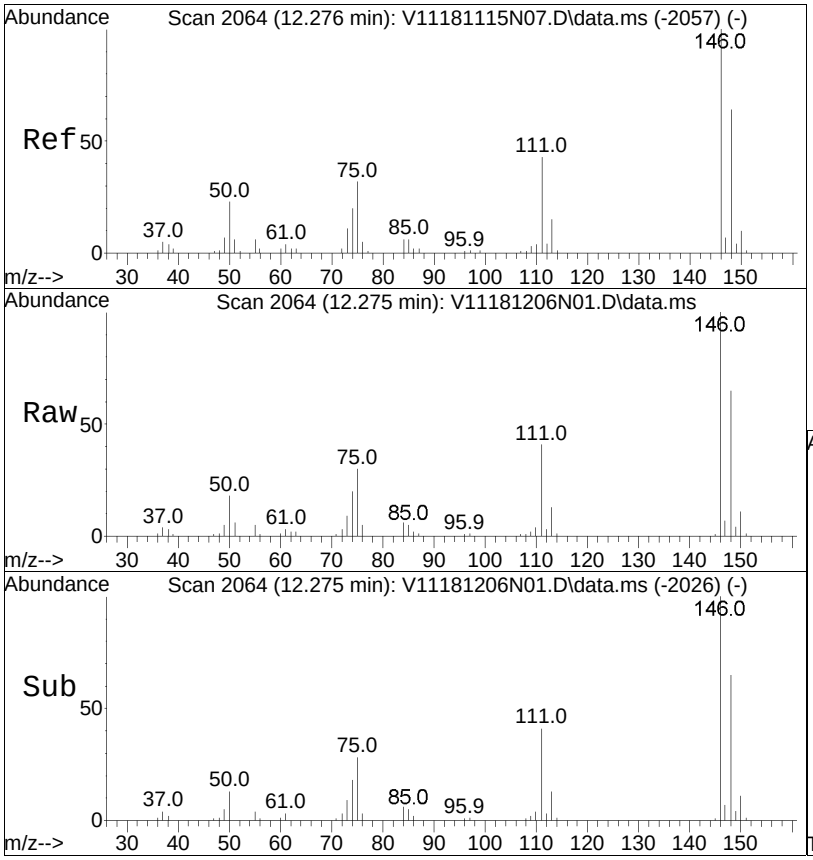


#101
1,4-Dichlorobenzene
Concen: 21.63 ug/L
RT: 11.840 min Scan# 1981
Delta R.T. -0.006 min
Lab File: V11181206N01.D
Acq: 06 Dec 2018 14:37

Tgt Ion:146 Resp: 55799

Ion	Ratio	Lower	Upper
146	100		
111	40.1	31.4	47.0
148	64.7	50.7	76.1

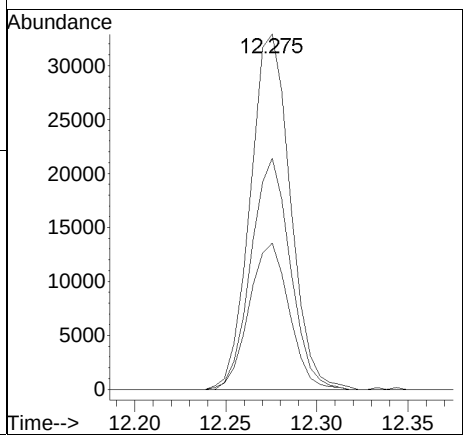


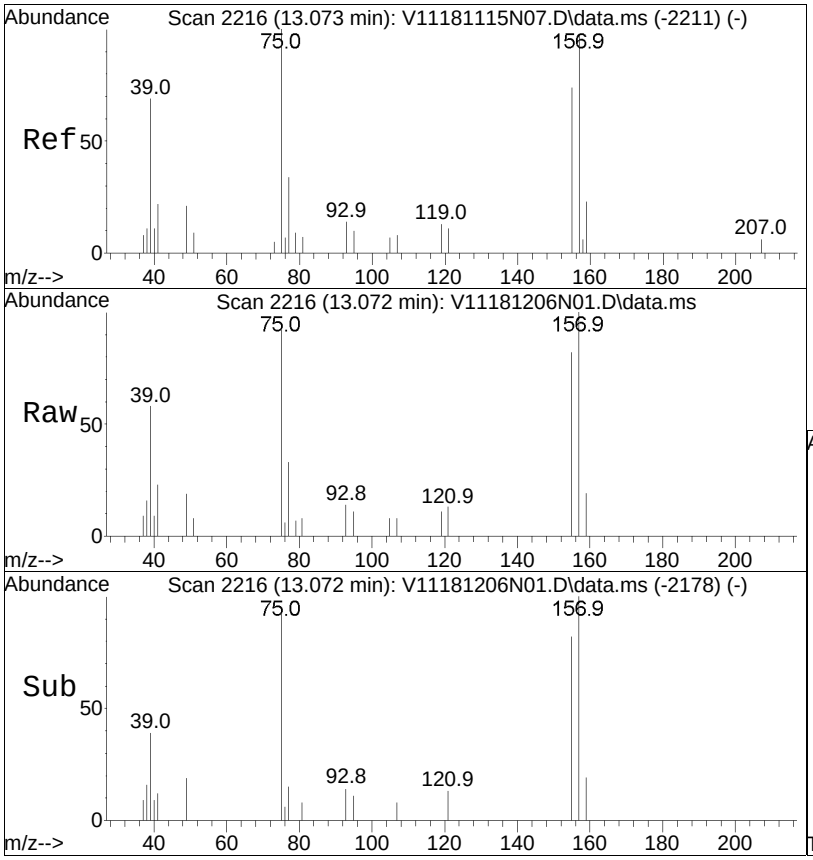


#104
1,2-Dichlorobenzene
Concen: 21.37 ug/L
RT: 12.275 min Scan# 2064
Delta R.T. -0.001 min
Lab File: V11181206N01.D
Acq: 06 Dec 2018 14:37

Tgt Ion:146 Resp: 50320

Ion	Ratio	Lower	Upper
146	100		
111	41.2	26.9	55.9
148	63.7	41.2	85.6

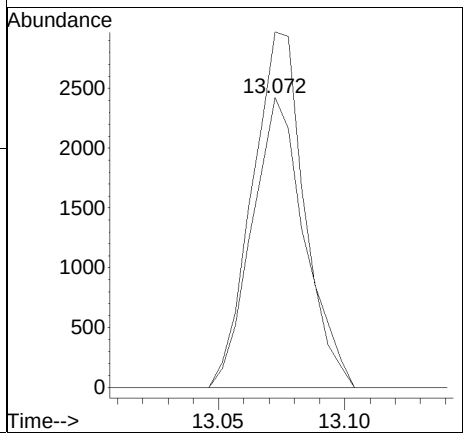


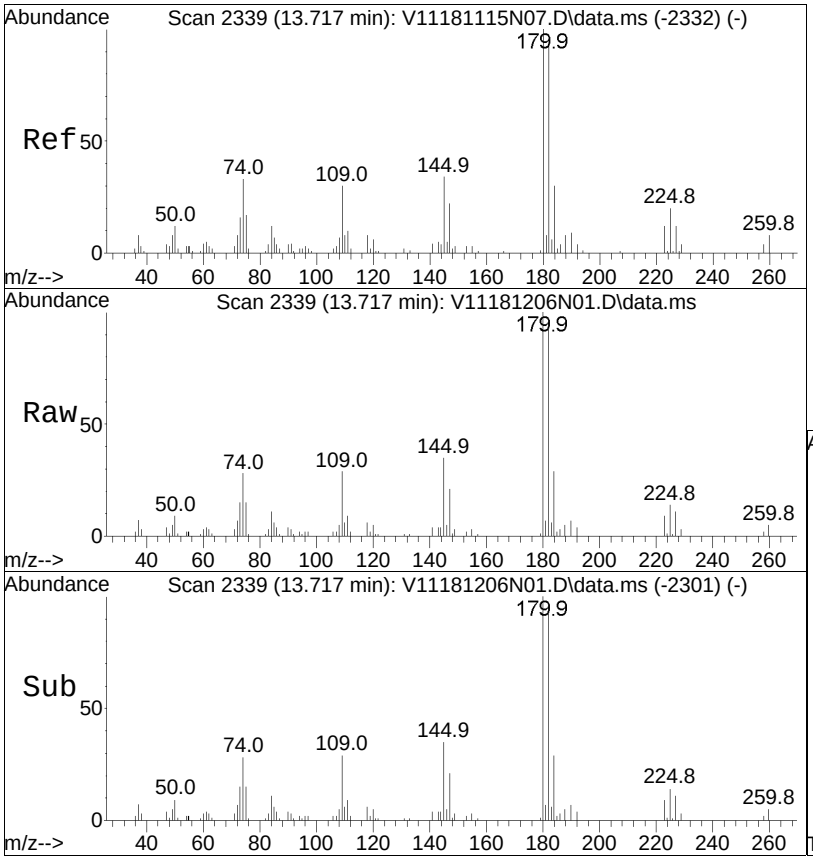


#106
1,2-Dibromo-3-chloropropane
Concen: 18.29 ug/L
RT: 13.072 min Scan# 2216
Delta R.T. -0.001 min
Lab File: V11181206N01.D
Acq: 06 Dec 2018 14:37

Tgt Ion:155 Resp: 3471

Ion	Ratio	Lower	Upper
155	100		
157	124.6	100.0	150.0

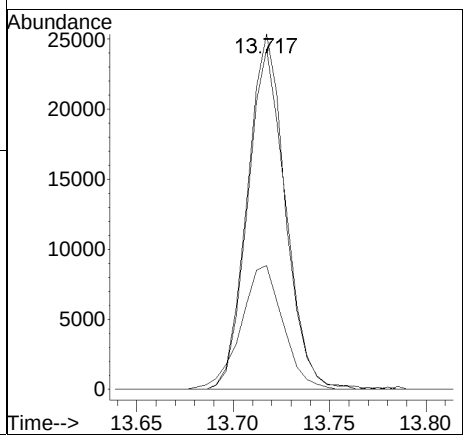


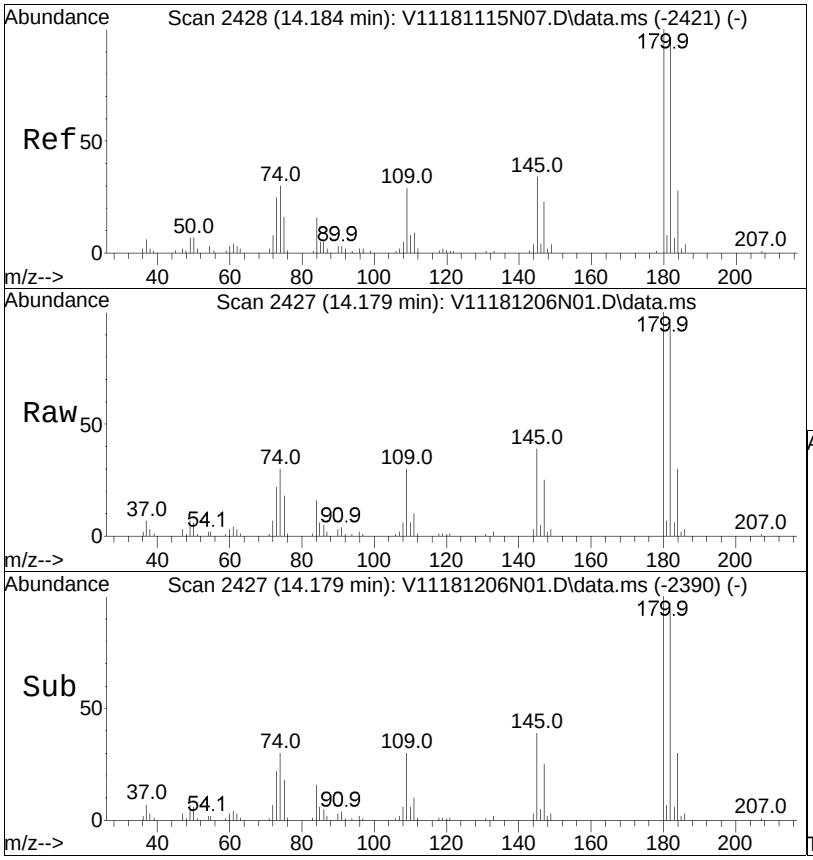


#109
1,2,4-Trichlorobenzene
Concen: 21.47 ug/L
RT: 13.717 min Scan# 2339
Delta R.T. 0.000 min
Lab File: V11181206N01.D
Acq: 06 Dec 2018 14:37

Tgt Ion:180 Resp: 34700

Ion	Ratio	Lower	Upper
180	100		
182	96.0	75.8	113.6
145	38.7	29.6	44.4

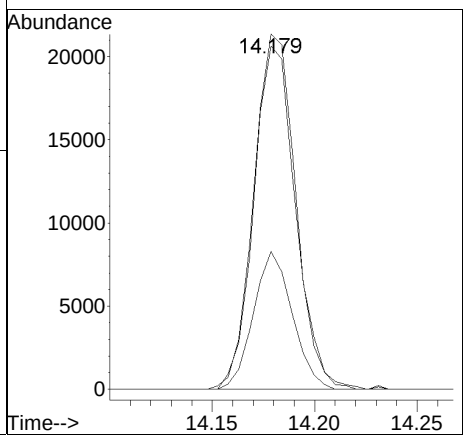




#111
1,2,3-Trichlorobenzene
Concen: 19.98 ug/L
RT: 14.179 min Scan# 2427
Delta R.T. -0.005 min
Lab File: V11181206N01.D
Acq: 06 Dec 2018 14:37

Tgt Ion:180 Resp: 30603

Ion	Ratio	Lower	Upper
180	100		
182	94.7	74.2	111.4
145	35.7	26.3	39.5



Manual Integration Report

Data Path	: I:\VOLATILES\VOA111\2018\1Q	Method	: V111_181115N_8260.m
Data File	: V11181206N01.D	Operator	: VOA111:MKS
Date Inj'd	: 12/6/2018 14:37	Instrument	: VOA111
Sample	: WG1186672-3,31,5,5	Quant Date	: 12/6/2018 3:05 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2018\181206A\
Data File : V04181206A02.D
Acq On : 6 Dec 2018 7:11 am
Operator : VOA104:MV
Sample : WG1186463-4,31,5,5
Misc : WG1186463,ICAL15180
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 06 10:07:36 2018
Quant Method : I:\VOLATILES\VOA104\2018\181206A\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 30 09:42:37 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2018\181206A\V04181206A01.D
Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.875	96	126301	20.000	ug/L	0.00
Standard Area 1 = 131170			Recovery = 96.29%			
59) Chlorobenzene-d5	9.388	117	96835	20.000	ug/L	0.00
Standard Area 1 = 100348			Recovery = 96.50%			
79) 1,4-Dichlorobenzene-d4	12.120	152	50028	20.000	ug/L	0.00
Standard Area 1 = 50893			Recovery = 98.30%			
System Monitoring Compounds						
36) Dibromofluoromethane	5.083	113	35815	22.274	ug/L	0.00
Spiked Amount 20.000		Range 70 - 130		Recovery = 111.37%		
43) 1,2-Dichloroethane-d4	5.603	65	39955	21.914	ug/L	0.00
Spiked Amount 20.000		Range 70 - 130		Recovery = 109.57%		
60) Toluene-d8	7.548	98	137166	21.358	ug/L	0.00
Spiked Amount 20.000		Range 70 - 130		Recovery = 106.79%		
83) 4-Bromofluorobenzene	10.898	95	52182	21.629	ug/L	0.00
Spiked Amount 20.000		Range 70 - 130		Recovery = 108.15%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.613	85	26759	18.431	ug/L	97
3) Chloromethane	1.791	50	47392	15.988	ug/L	98
4) Vinyl chloride	1.864	62	40540	18.787	ug/L	98
5) Bromomethane	2.163	94	20250	22.701	ug/L	100
6) Chloroethane	2.278	64	19082	19.630	ug/L	94
7) Trichlorofluoromethane	2.404	101	34519	21.557	ug/L	99
10) 1,1-Dichloroethene	2.871	96	21517	21.096	ug/L #	65
11) Carbon disulfide	2.897	76	62182	17.878	ug/L	100
12) Freon-113	2.902	101	22401	20.163	ug/L	98
15) Methylene chloride	3.416	84	35052	18.513	ug/L	73
17) Acetone	3.479	43	11131	19.904	ug/L #	83
18) trans-1,2-Dichloroethene	3.563	96	32378	19.569	ug/L	76
19) Methyl acetate	3.584	43	32816	20.969	ug/L #	91
20) Methyl tert-butyl ether	3.663	73	90911	20.859	ug/L #	87
23) 1,1-Dichloroethane	4.134	63	82374	19.966	ug/L	97
28) cis-1,2-Dichloroethene	4.648	96	37436	20.304	ug/L #	79
30) Bromochloromethane	4.837	128	18386	20.809	ug/L #	72
31) Cyclohexane	4.821	56	83329	20.798	ug/L	73
32) Chloroform	4.905	83	61266	20.438	ug/L	96
34) Carbon tetrachloride	5.026	117	41475	20.154	ug/L	99

Data Path : I:\VOLATILES\VOA104\2018\181206A\
Data File : V04181206A02.D
Acq On : 6 Dec 2018 7:11 am
Operator : VOA104:MV
Sample : WG1186463-4,31,5,5
Misc : WG1186463,ICAL15180
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 06 10:07:36 2018
Quant Method : I:\VOLATILES\VOA104\2018\181206A\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 30 09:42:37 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2018\181206A\V04181206A01.D
Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) 1,1,1-Trichloroethane	5.094	97	49294	20.358	ug/L		94
39) 2-Butanone	5.209	43	18501	19.419	ug/L	#	88
41) Benzene	5.456	78	133369	20.252	ug/L	#	92
44) 1,2-Dichloroethane	5.671	62	53862	20.591	ug/L		99
47) Methyl cyclohexane	6.022	83	53441	21.357	ug/L	#	61
48) Trichloroethene	6.048	95	35983	20.548	ug/L		99
51) 1,2-Dichloropropane	6.588	63	50457	20.326	ug/L	#	92
54) Bromodichloromethane	6.667	83	46907	21.000	ug/L		89
57) 1,4-Dioxane	6.887	88	16119	955.525	ug/L	#	67
58) cis-1,3-Dichloropropene	7.354	75	56951	22.334	ug/L		94
61) Toluene	7.605	92	84549	19.567	ug/L		99
62) 4-Methyl-2-pentanone	8.051	58	21279	22.096	ug/L	#	86
63) Tetrachloroethene	8.046	166	36544	20.478	ug/L		99
65) trans-1,3-Dichloropropene	8.103	75	49013	19.894	ug/L		95
68) 1,1,2-Trichloroethane	8.287	83	27748	21.028	ug/L		100
69) Chlorodibromomethane	8.497	129	39908	20.827	ug/L		98
71) 1,2-Dibromoethane	8.764	107	33001	20.509	ug/L		98
72) 2-Hexanone	9.058	43	32718	21.637	ug/L	#	88
73) Chlorobenzene	9.409	112	98660	19.794	ug/L		99
74) Ethylbenzene	9.440	91	164502	19.943	ug/L		99
76) p/m Xylene	9.624	106	127693	41.157	ug/L		99
77) o Xylene	10.174	106	125323	41.009	ug/L		96
78) Styrene	10.243	104	211267	42.320	ug/L		99
80) Bromoform	10.279	173	25557	20.929	ug/L		98
82) Isopropylbenzene	10.562	105	161771	19.383	ug/L		100
87) 1,1,2,2-Tetrachloroethane	11.155	83	46594	22.173	ug/L		99
100) 1,3-Dichlorobenzene	12.041	146	81560	20.352	ug/L		99
101) 1,4-Dichlorobenzene	12.130	146	86449	20.411	ug/L		99
104) 1,2-Dichlorobenzene	12.560	146	80993	21.061	ug/L		99
106) 1,2-Dibromo-3-chloropr...	13.346	155	6926	19.758	ug/L		96
109) 1,2,4-Trichlorobenzene	13.970	180	56515	21.700	ug/L		99
111) 1,2,3-Trichlorobenzene	14.432	180	53573	21.478	ug/L		99

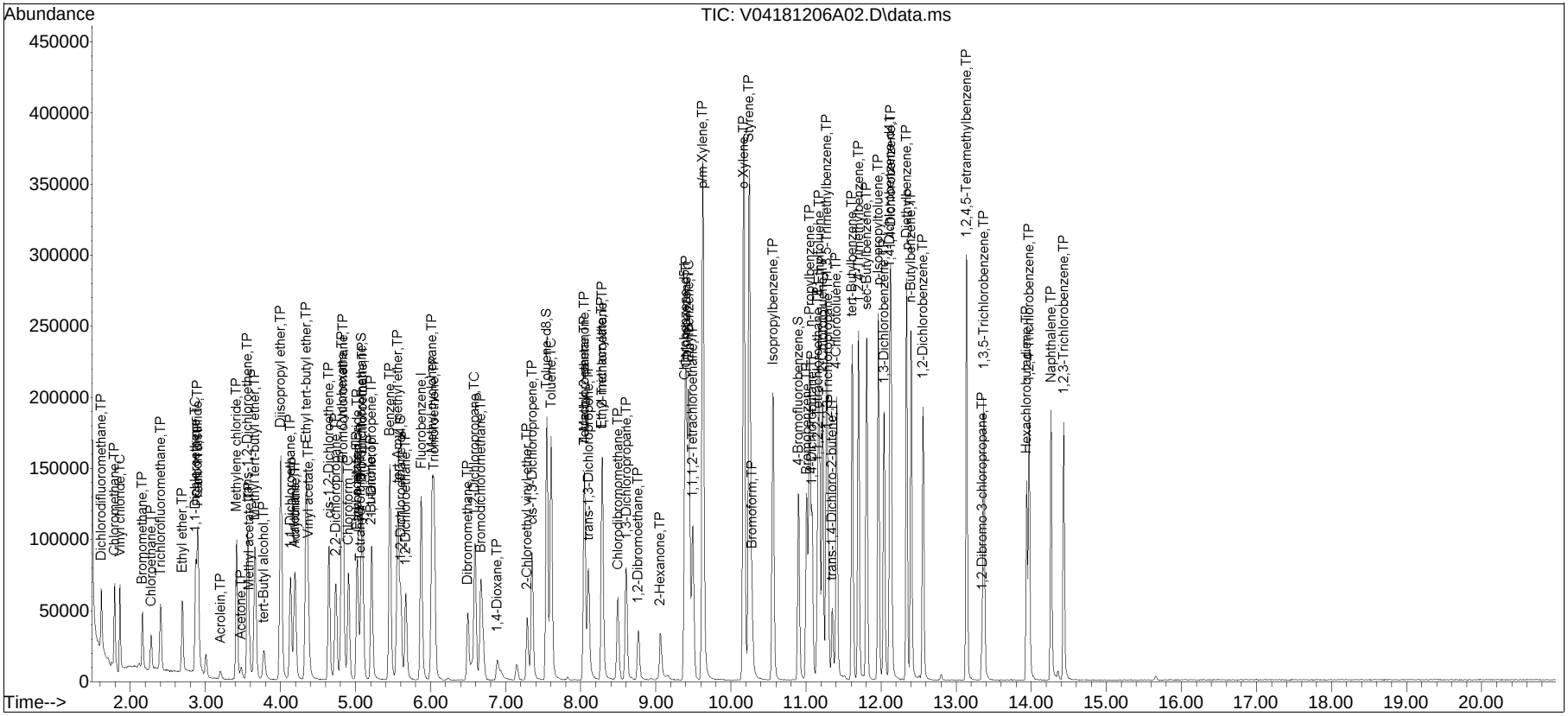
(#) = qualifier out of range (m) = manual integration (+) = signals summed

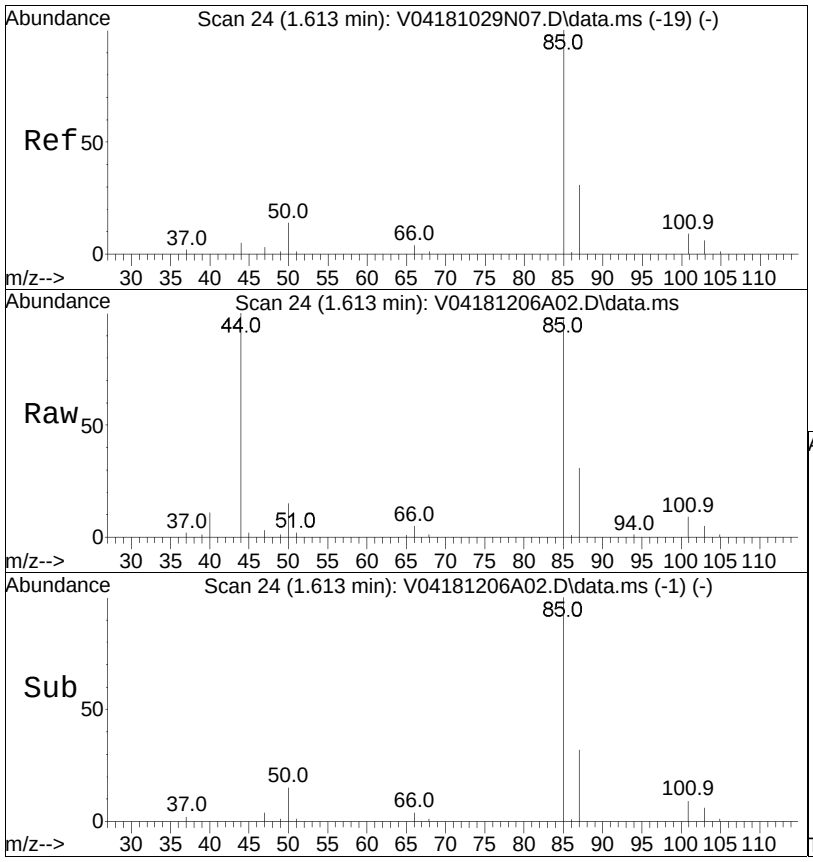
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2018\181206A\
Data File : V04181206A02.D
Acq On : 6 Dec 2018 7:11 am
Operator : VOA104:MV
Sample : WG1186463-4,31,5,5
Misc : WG1186463,ICAL15180
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 06 10:07:36 2018
Quant Method : I:\VOLATILES\VOA104\2018\181206A\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 30 09:42:37 2018
Response via : Initial Calibration

Sub List : 8260-CurveSoil - Megamix plus Diox6A\V04181206A01.D•

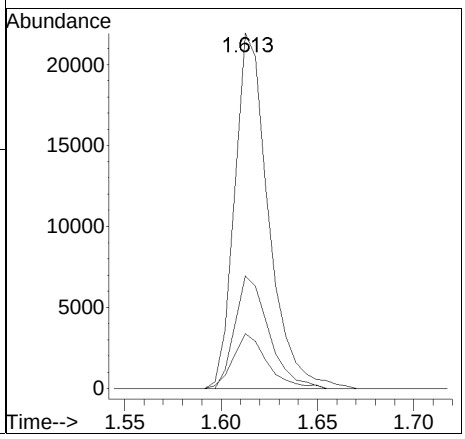


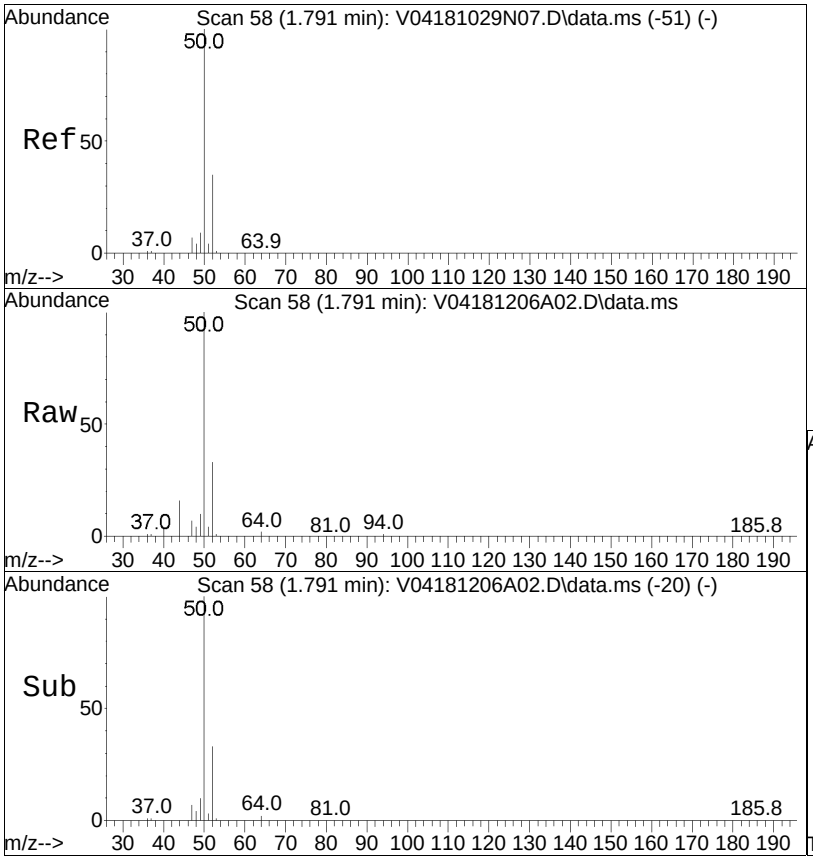


#2
Dichlorodifluoromethane
Concen: 18.43 ug/L
RT: 1.613 min Scan# 24
Delta R.T. -0.000 min
Lab File: V04181206A02.D
Acq: 6 Dec 2018 7:11 am

Tgt Ion: 85 Resp: 26759

Ion	Ratio	Lower	Upper
85	100		
87	31.8	20.9	43.5
50	15.5	8.1	16.9

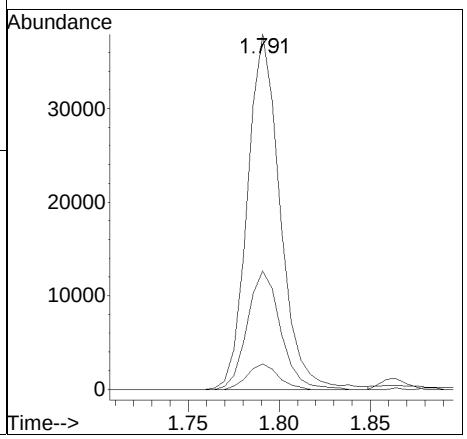


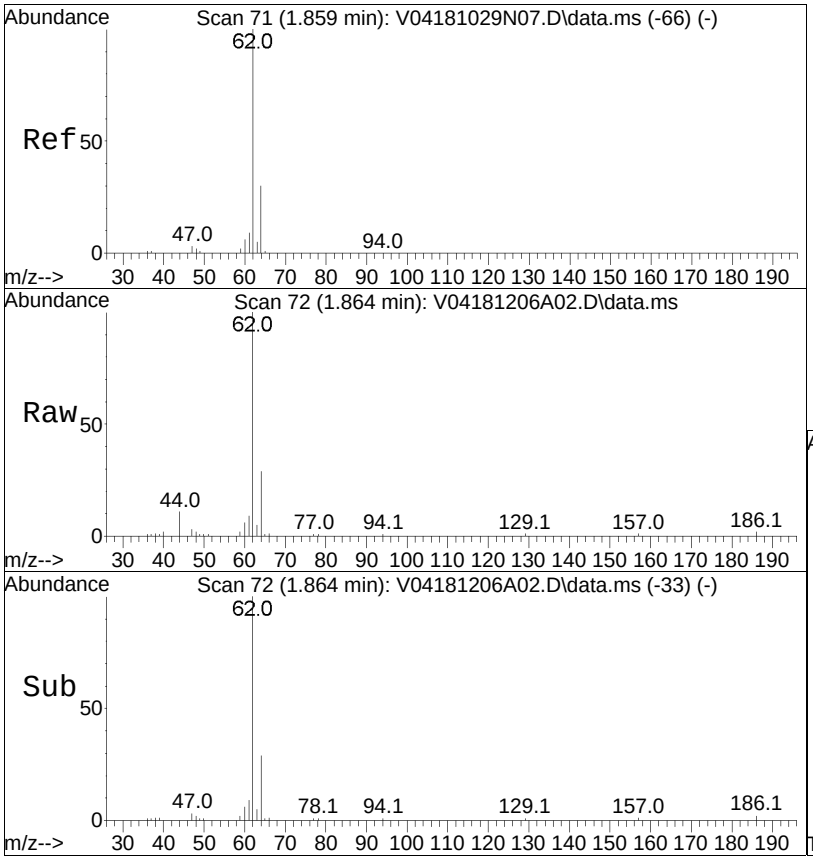


#3
Chloromethane
Concen: 15.99 ug/L
RT: 1.791 min Scan# 58
Delta R.T. -0.000 min
Lab File: V04181206A02.D
Acq: 6 Dec 2018 7:11 am

Tgt Ion: 50 Resp: 47392

Ion	Ratio	Lower	Upper
50	100		
52	34.0	13.0	53.0
47	6.8	0.0	28.2

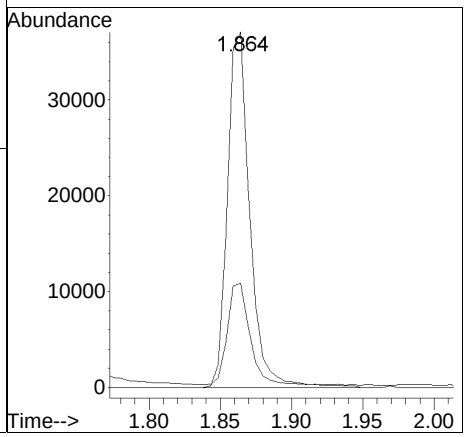


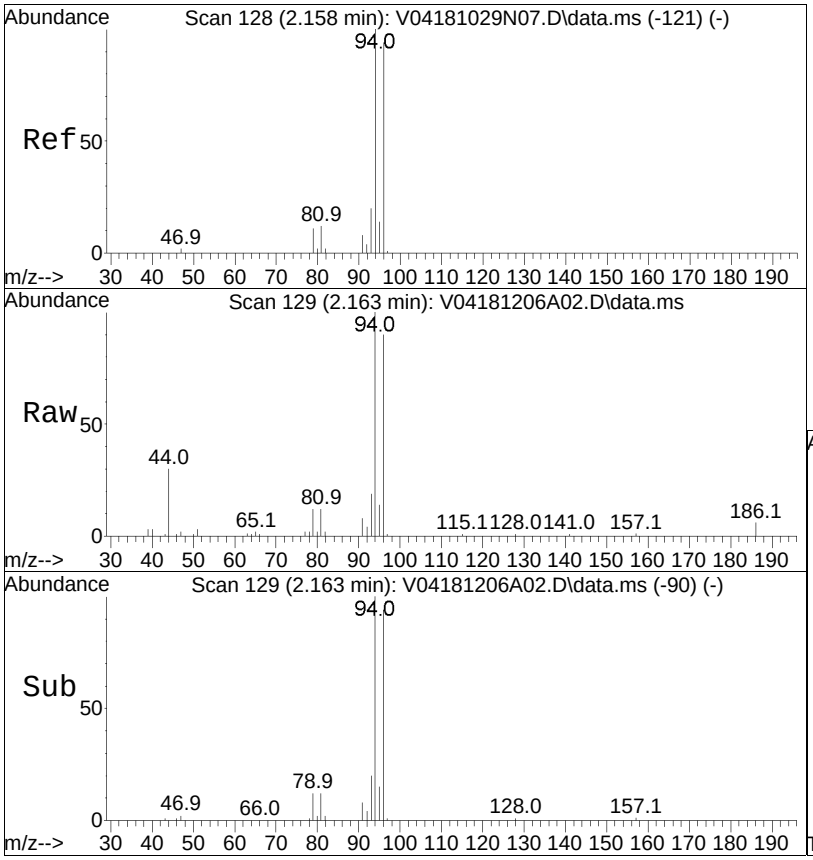


#4
Vinyl chloride
Concen: 18.79 ug/L
RT: 1.864 min Scan# 72
Delta R.T. 0.005 min
Lab File: V04181206A02.D
Acq: 6 Dec 2018 7:11 am

Tgt Ion: 62 Resp: 40540

Ion	Ratio	Lower	Upper
62	100		
64	30.3	11.6	51.6

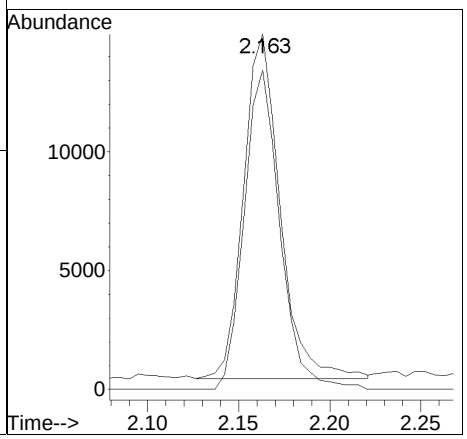


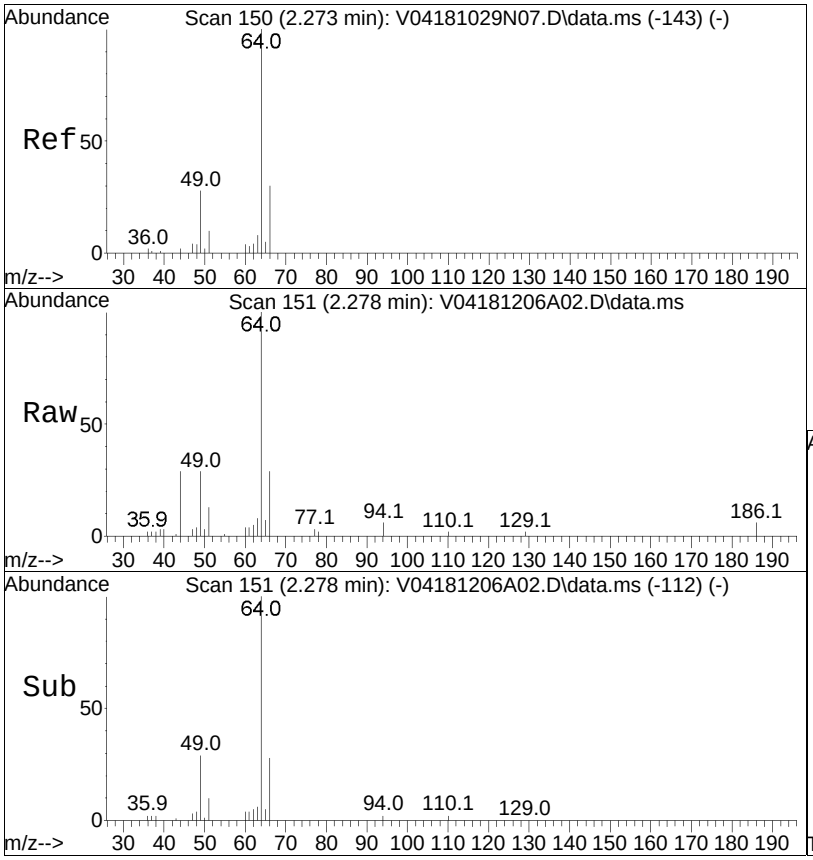


#5
Bromomethane
Concen: 22.70 ug/L
RT: 2.163 min Scan# 129
Delta R.T. 0.005 min
Lab File: V04181206A02.D
Acq: 6 Dec 2018 7:11 am

Tgt Ion: 94 Resp: 20250

Ion	Ratio	Lower	Upper
94	100		
96	90.8	71.0	111.0

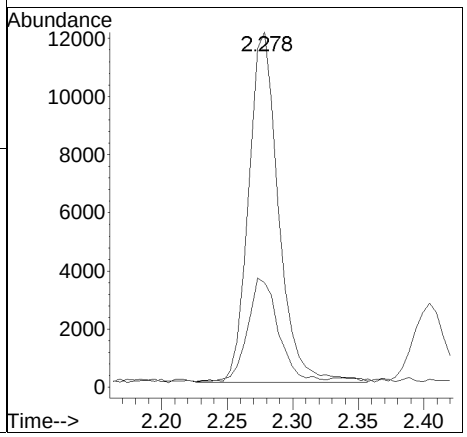


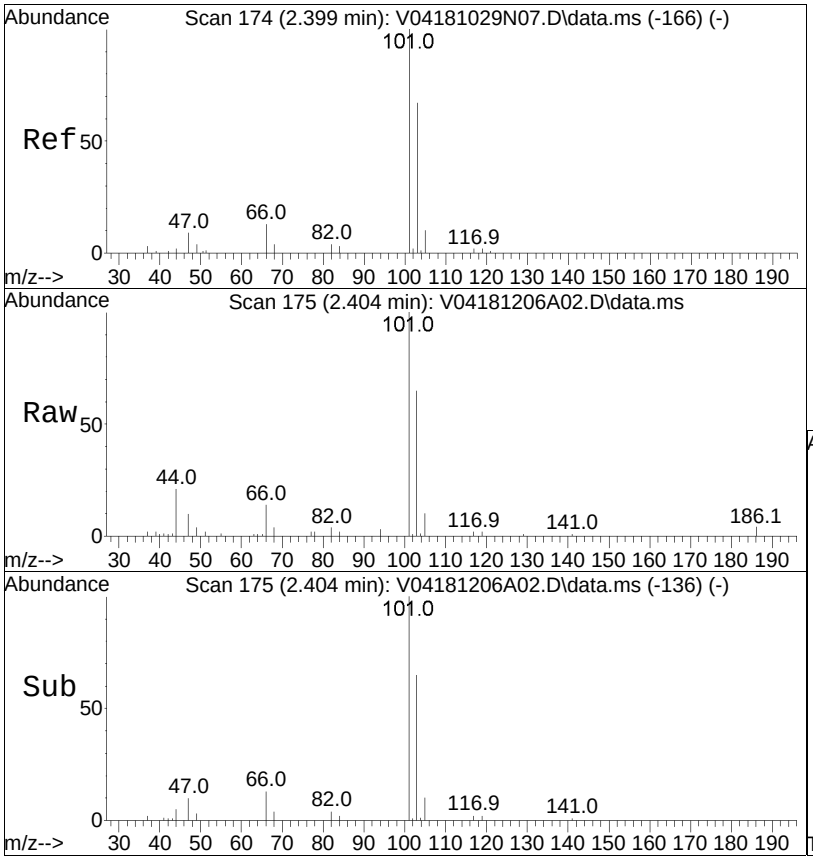


#6
Chloroethane
Concen: 19.63 ug/L
RT: 2.278 min Scan# 151
Delta R.T. 0.005 min
Lab File: V04181206A02.D
Acq: 6 Dec 2018 7:11 am

Tgt Ion: 64 Resp: 19082

Ion	Ratio	Lower	Upper
64	100		
66	30.4	13.7	53.7

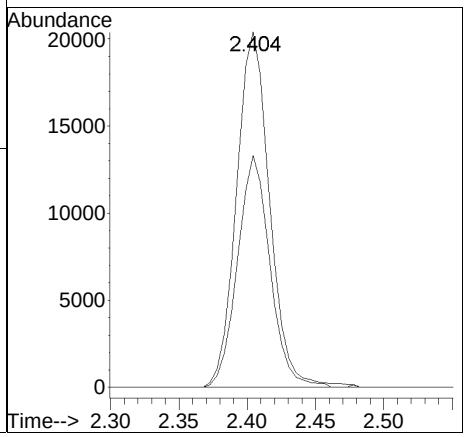


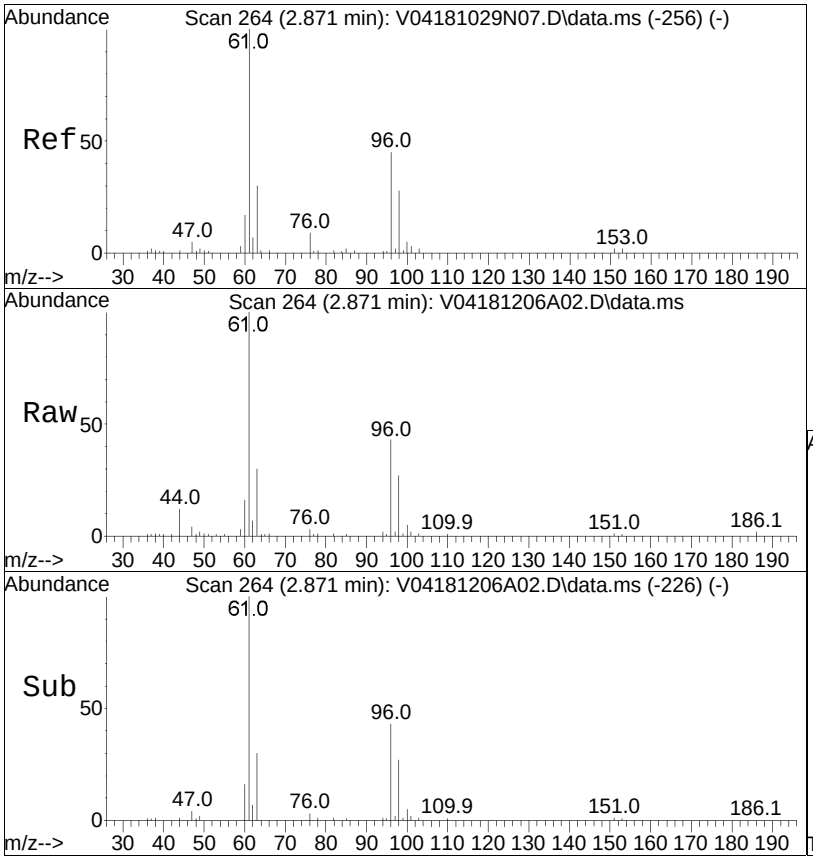


#7
Trichlorofluoromethane
Concen: 21.56 ug/L
RT: 2.404 min Scan# 175
Delta R.T. 0.005 min
Lab File: V04181206A02.D
Acq: 6 Dec 2018 7:11 am

Tgt Ion:101 Resp: 34519

Ion	Ratio	Lower	Upper
101	100		
103	64.0	51.7	77.5

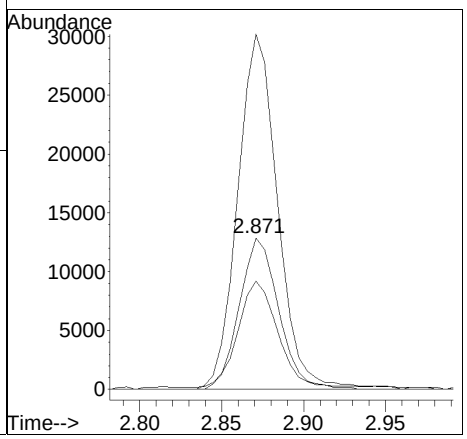


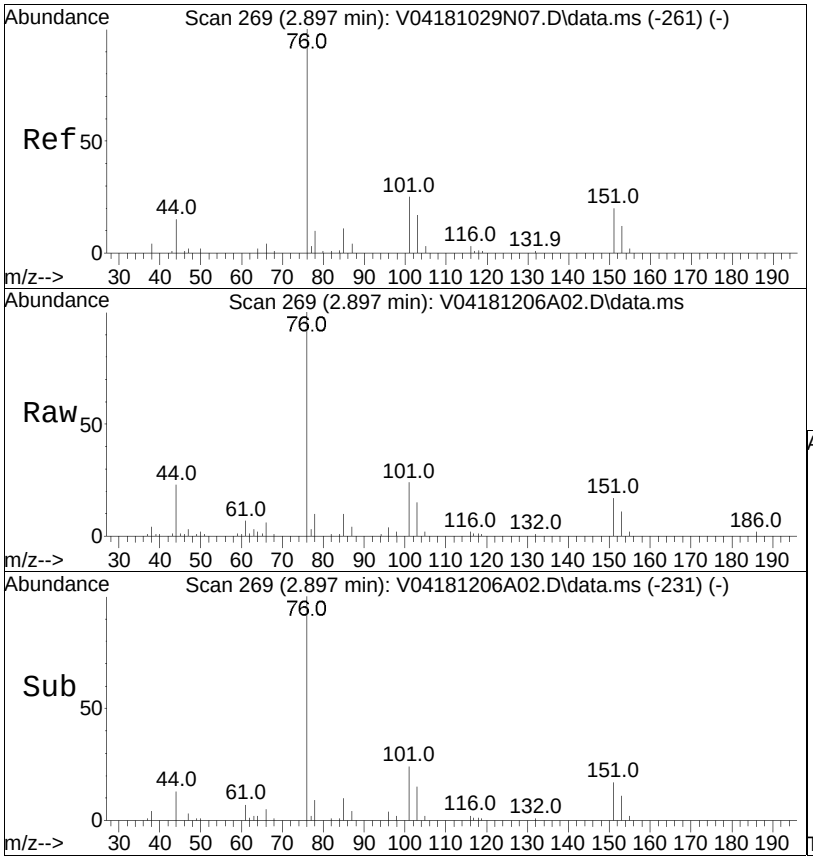


#10
1,1-Dichloroethene
Concen: 21.10 ug/L
RT: 2.871 min Scan# 264
Delta R.T. -0.000 min
Lab File: V04181206A02.D
Acq: 6 Dec 2018 7:11 am

Tgt Ion: 96 Resp: 21517

Ion	Ratio	Lower	Upper
96	100		
61	238.5	145.8	218.6#
63	75.4	46.6	69.8#

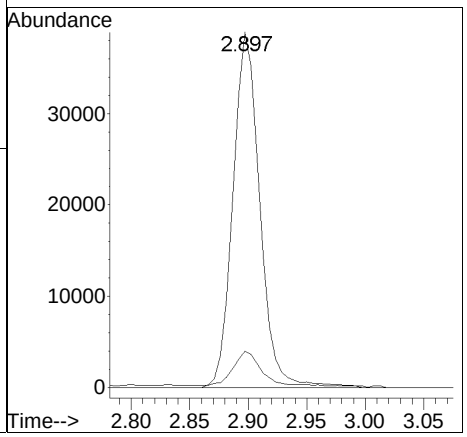


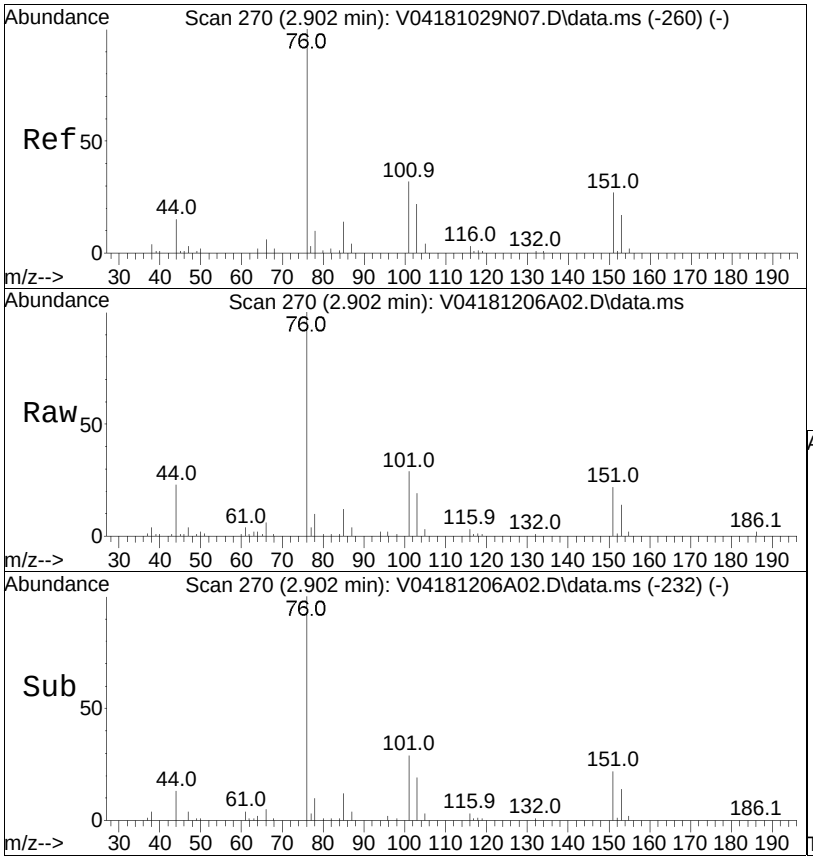


#11
Carbon disulfide
Concen: 17.88 ug/L
RT: 2.897 min Scan# 269
Delta R.T. 0.000 min
Lab File: V04181206A02.D
Acq: 6 Dec 2018 7:11 am

Tgt Ion: 76 Resp: 62182

Ion	Ratio	Lower	Upper
76	100		
78	10.2	6.6	13.8

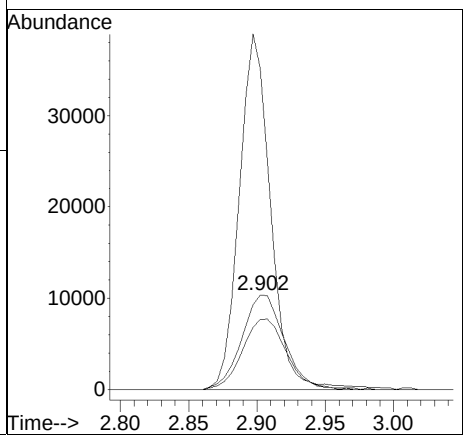


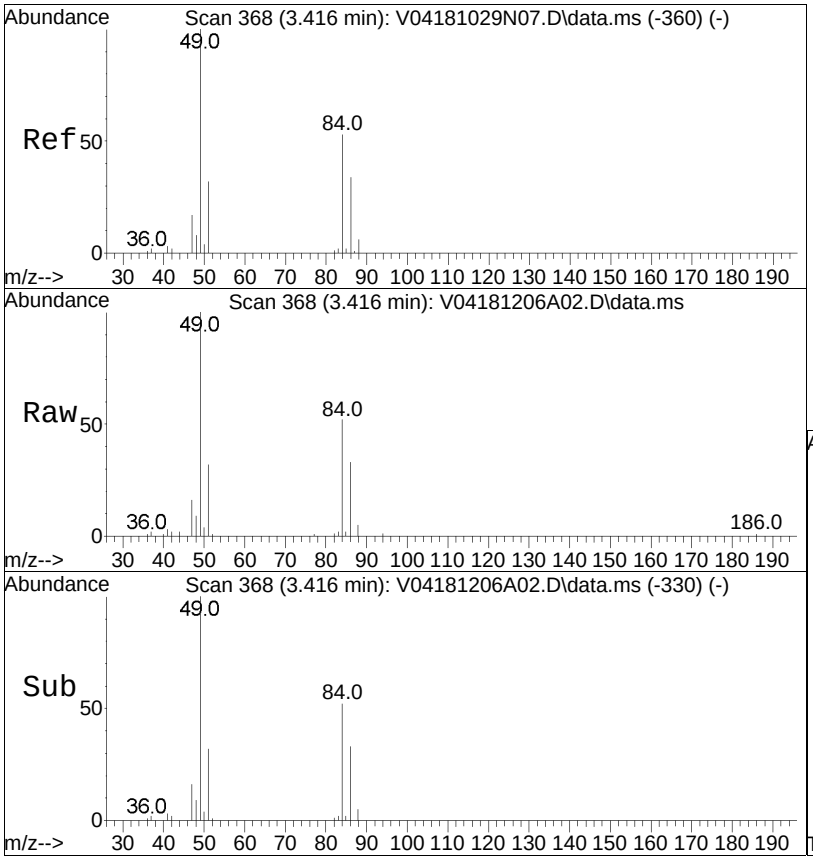


#12
Freon-113
Concen: 20.16 ug/L
RT: 2.902 min Scan# 270
Delta R.T. 0.000 min
Lab File: V04181206A02.D
Acq: 6 Dec 2018 7:11 am

Tgt Ion:101 Resp: 22401

Ion	Ratio	Lower	Upper
101	100		
151	76.6	65.3	97.9
76	277.6	224.2	336.4

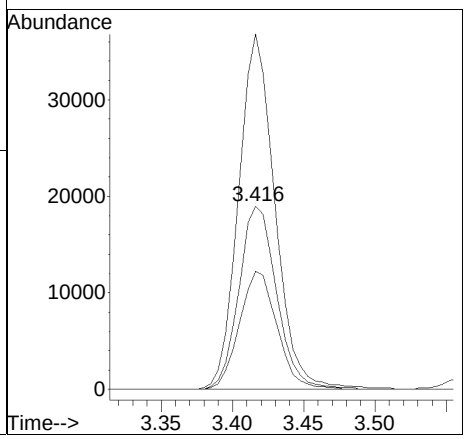


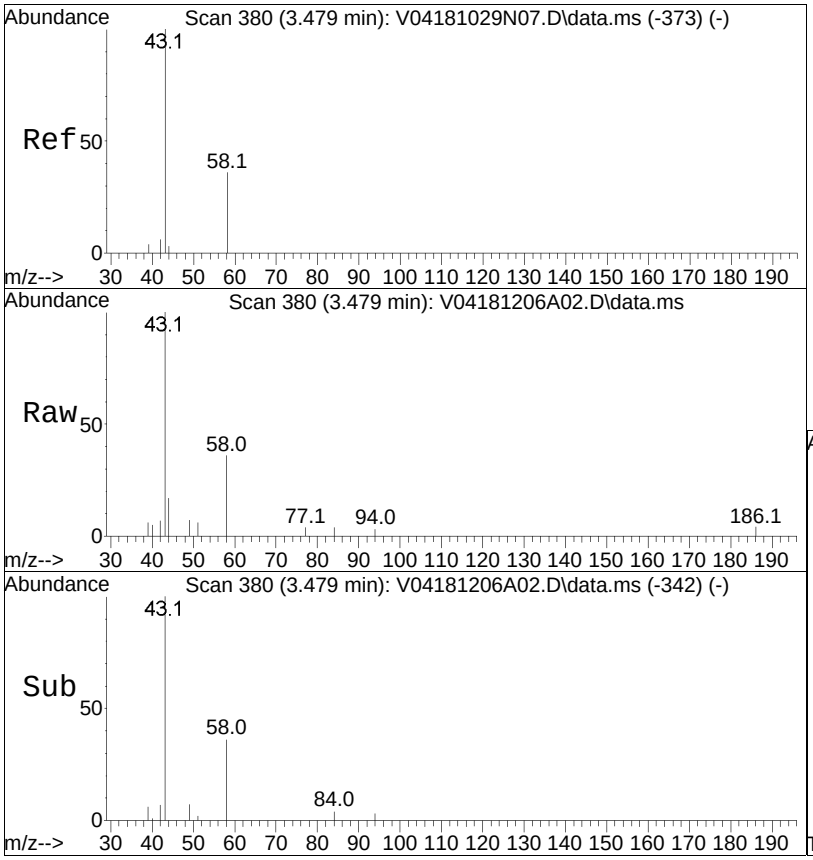


#15
Methylene chloride
Concen: 18.51 ug/L
RT: 3.416 min Scan# 368
Delta R.T. 0.000 min
Lab File: V04181206A02.D
Acq: 6 Dec 2018 7:11 am

Tgt Ion: 84 Resp: 35052

Ion	Ratio	Lower	Upper
84	100		
86	64.2	41.3	85.9
49	187.0	91.0	189.0

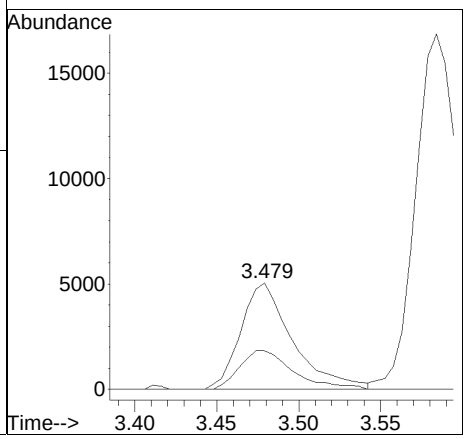


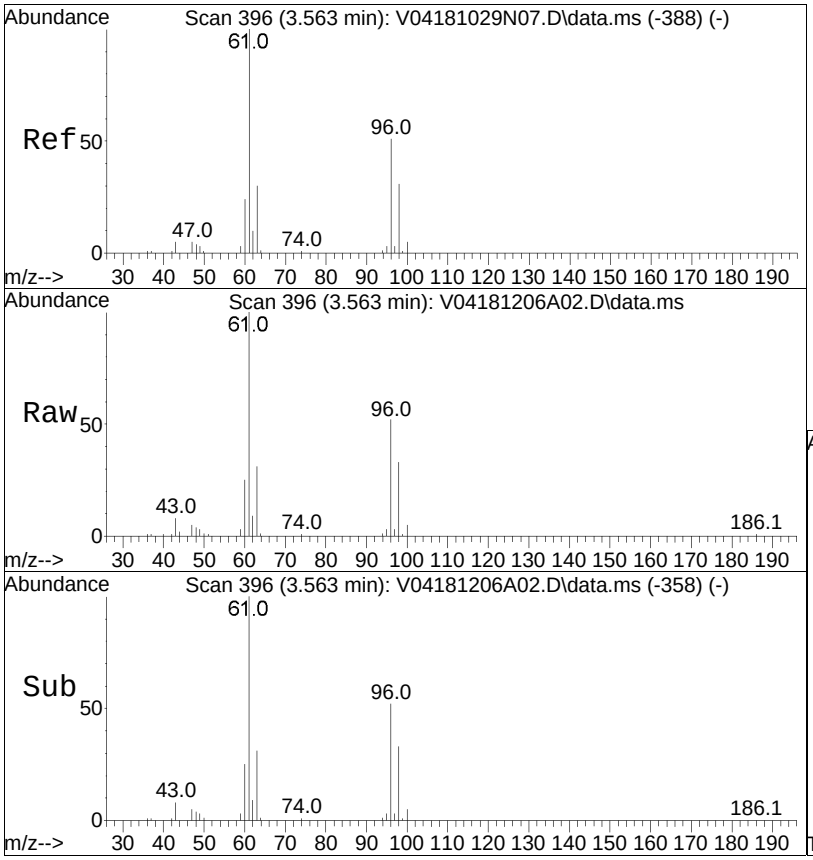


#17
Acetone
Concen: 19.90 ug/L
RT: 3.479 min Scan# 380
Delta R.T. 0.000 min
Lab File: V04181206A02.D
Acq: 6 Dec 2018 7:11 am

Tgt Ion: 43 Resp: 11131

Ion	Ratio	Lower	Upper
43	100		
58	38.0	23.2	34.8#

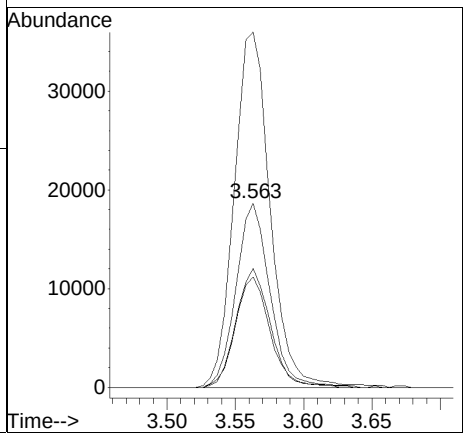


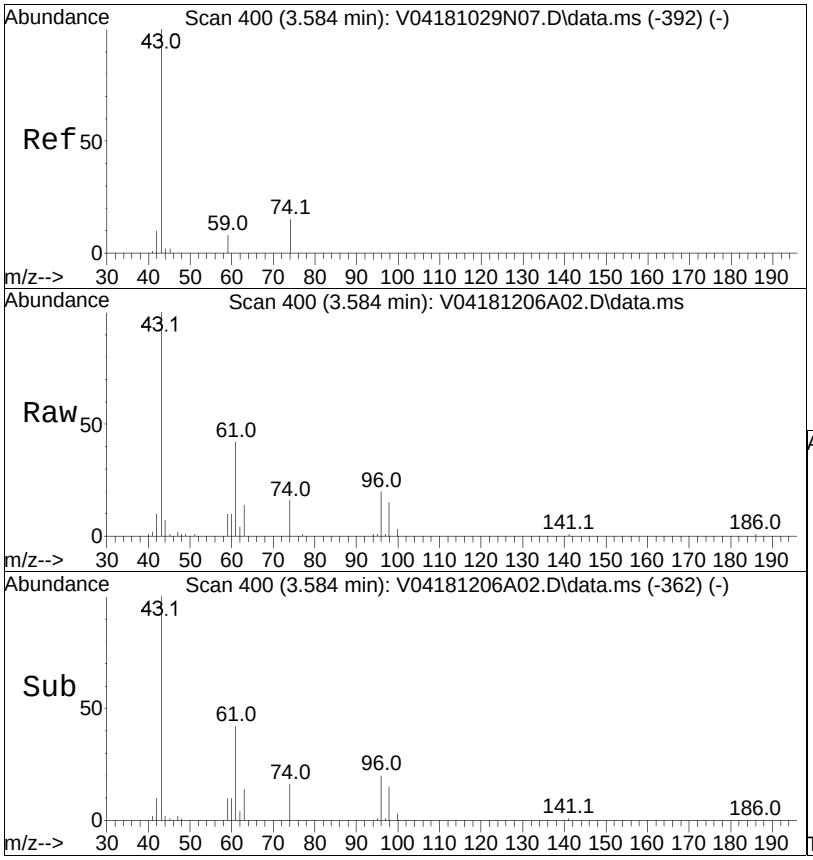


#18
trans-1,2-Dichloroethene
Concen: 19.57 ug/L
RT: 3.563 min Scan# 396
Delta R.T. -0.000 min
Lab File: V04181206A02.D
Acq: 6 Dec 2018 7:11 am

Tgt Ion: 96 Resp: 32378

Ion	Ratio	Lower	Upper
96	100		
61	204.3	103.7	215.3
98	64.9	41.0	85.0
63	61.6	32.1	66.7

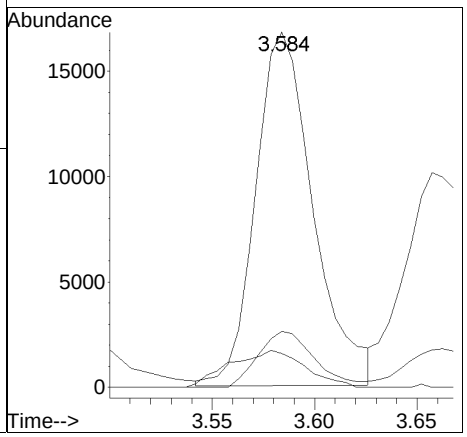


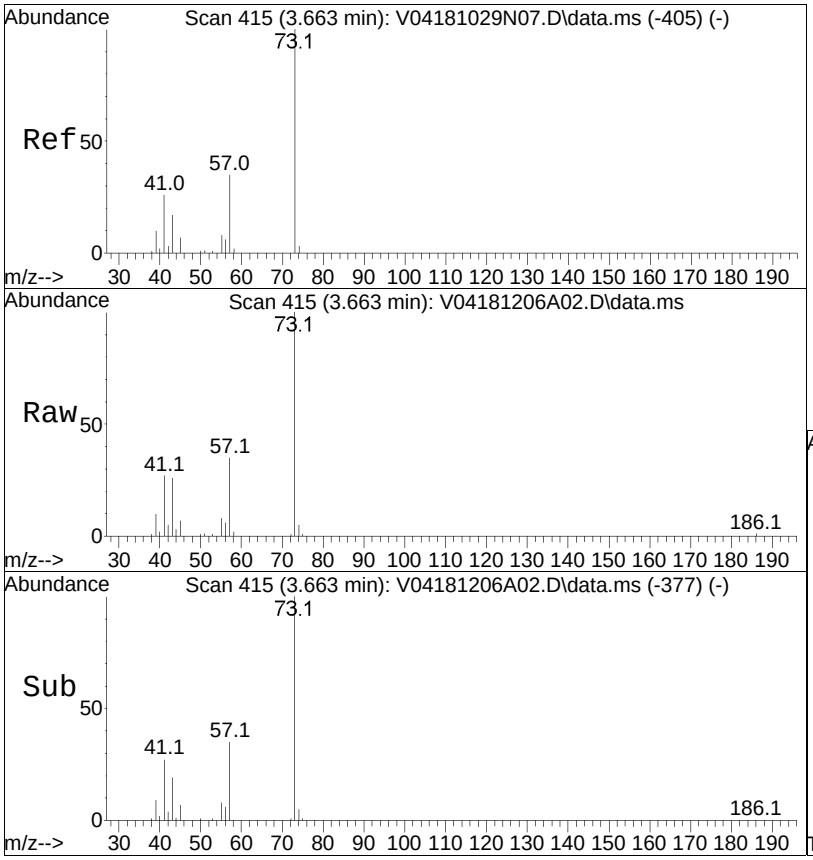


#19
Methyl acetate
Concen: 20.97 ug/L
RT: 3.584 min Scan# 400
Delta R.T. -0.000 min
Lab File: V04181206A02.D
Acq: 6 Dec 2018 7:11 am

Tgt Ion: 43 Resp: 32816

Ion	Ratio	Lower	Upper
43	100		
74	15.4	16.2	24.2#
59	13.7	13.7	20.5

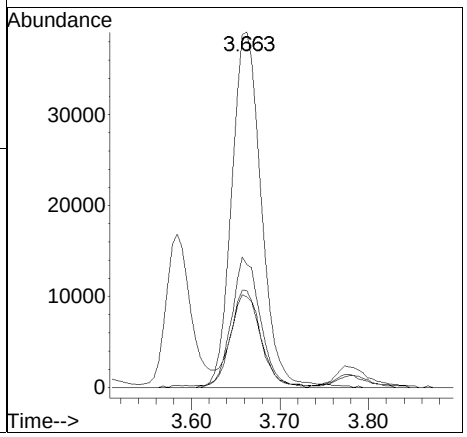


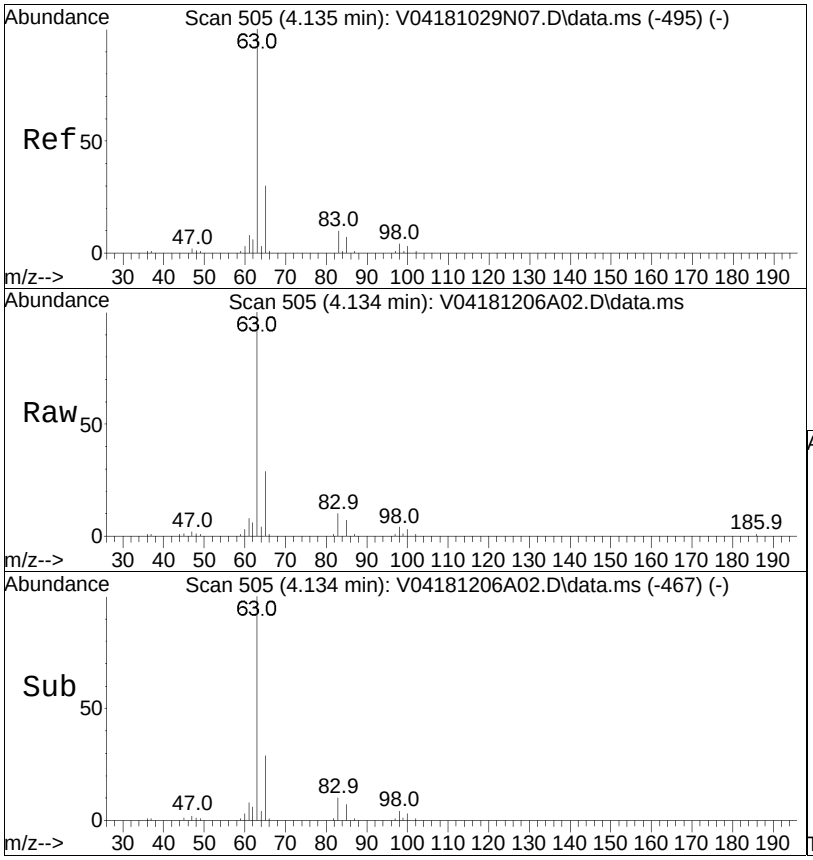


#20
Methyl tert-butyl ether
Concen: 20.86 ug/L
RT: 3.663 min Scan# 415
Delta R.T. -0.000 min
Lab File: V04181206A02.D
Acq: 6 Dec 2018 7:11 am

Tgt Ion: 73 Resp: 90911

Ion	Ratio	Lower	Upper
73	100		
57	35.9	16.3	33.9#
43	25.9	14.7	30.5
41	27.9	15.4	32.0

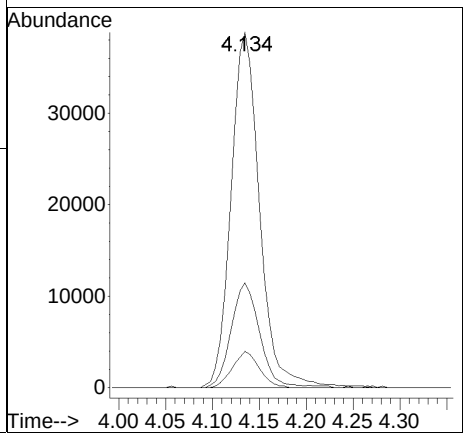


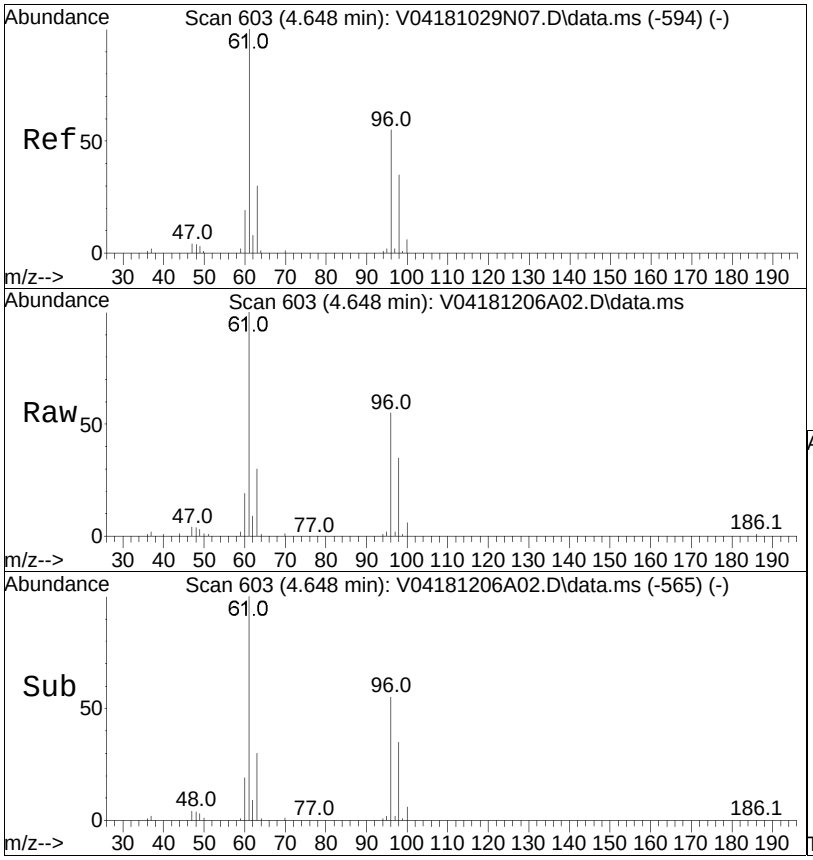


#23
1,1-Dichloroethane
Concen: 19.97 ug/L
RT: 4.134 min Scan# 505
Delta R.T. -0.001 min
Lab File: V04181206A02.D
Acq: 6 Dec 2018 7:11 am

Tgt Ion: 63 Resp: 82374

Ion	Ratio	Lower	Upper
63	100		
65	29.4	10.4	50.4
83	9.4	0.0	32.2

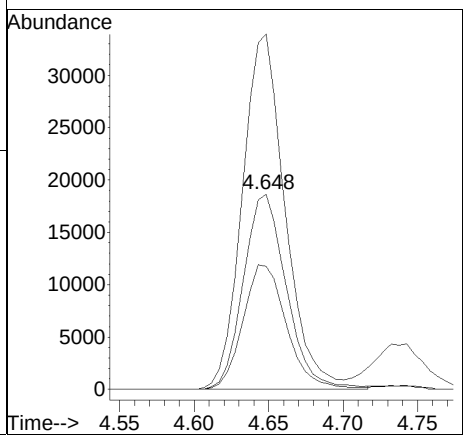


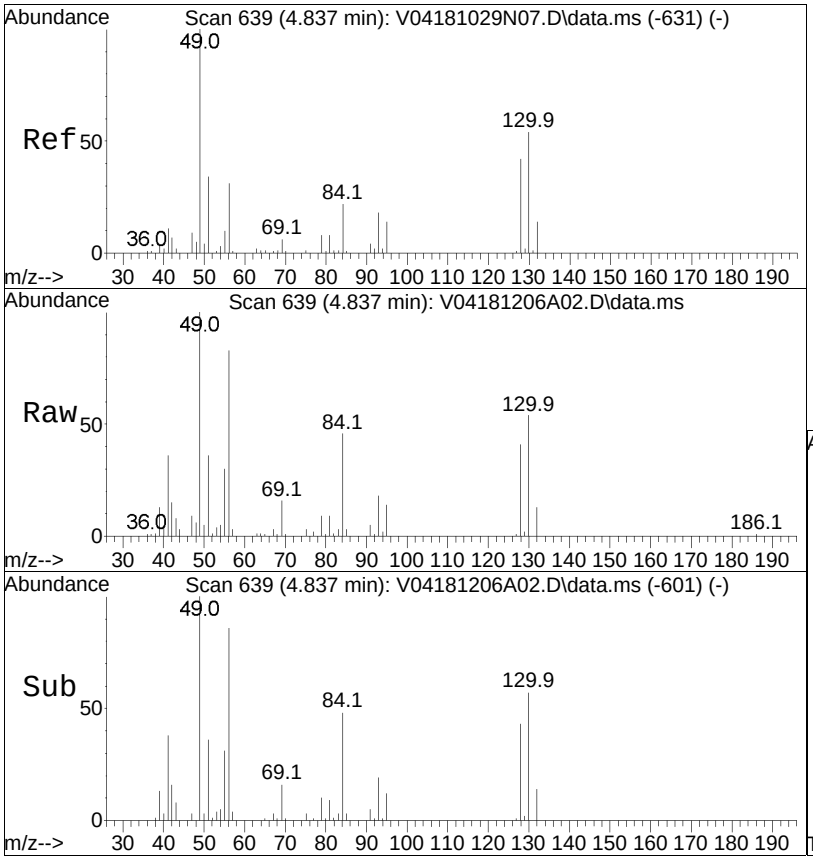


#28
cis-1,2-Dichloroethene
Concen: 20.30 ug/L
RT: 4.648 min Scan# 603
Delta R.T. 0.000 min
Lab File: V04181206A02.D
Acq: 6 Dec 2018 7:11 am

Tgt Ion: 96 Resp: 37436

Ion	Ratio	Lower	Upper
96	100		
61	180.3	114.4	171.6#
98	64.6	51.3	76.9

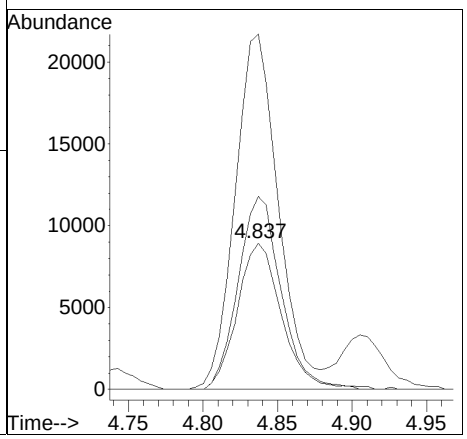


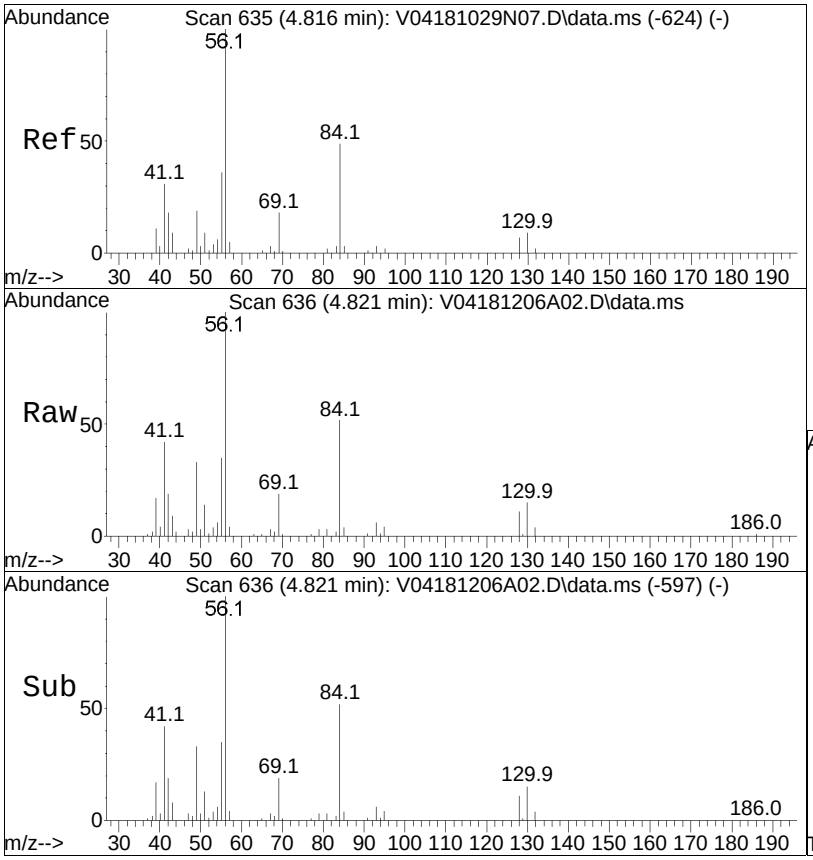


#30
Bromochloromethane
Concen: 20.81 ug/L
RT: 4.837 min Scan# 639
Delta R.T. 0.000 min
Lab File: V04181206A02.D
Acq: 6 Dec 2018 7:11 am

Tgt Ion:128 Resp: 18386

Ion	Ratio	Lower	Upper
128	100		
49	238.0	136.8	205.2#
130	129.6	102.6	153.8

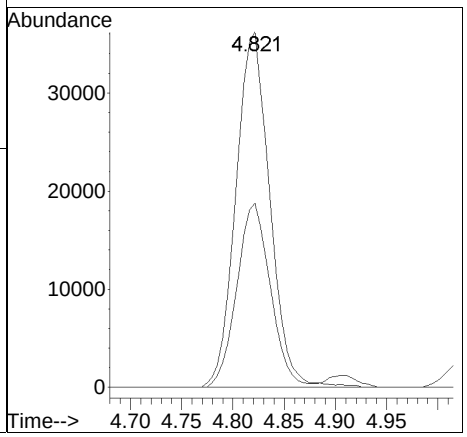


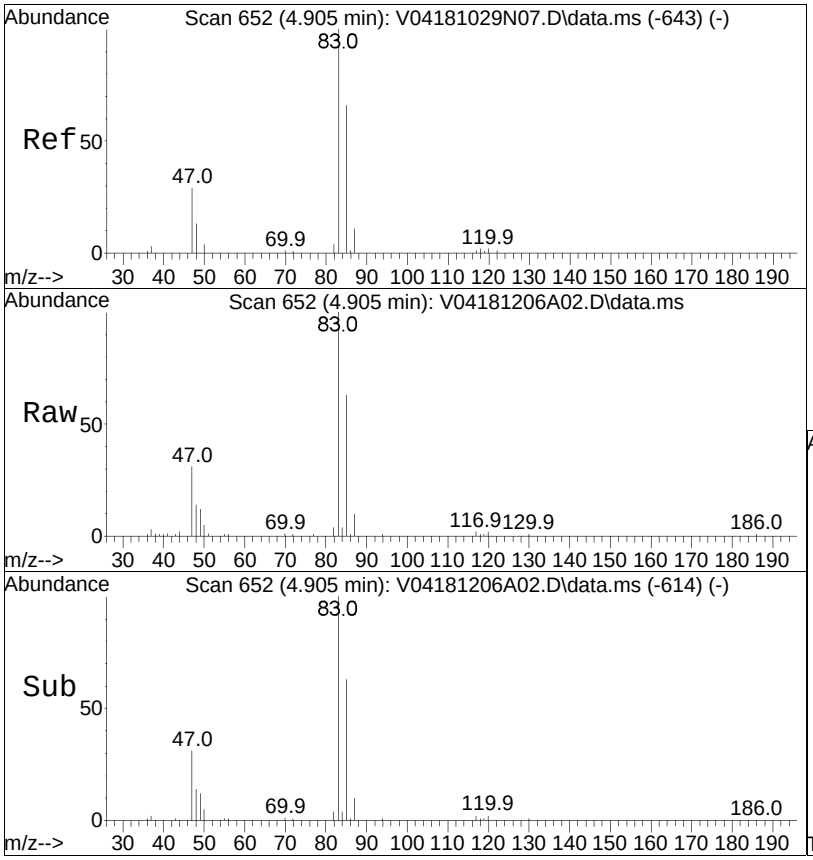


#31
Cyclohexane
Concen: 20.80 ug/L
RT: 4.821 min Scan# 636
Delta R.T. 0.005 min
Lab File: V04181206A02.D
Acq: 6 Dec 2018 7:11 am

Tgt Ion: 56 Resp: 83329

Ion	Ratio	Lower	Upper
56	100		
84	51.3	48.2	100.2

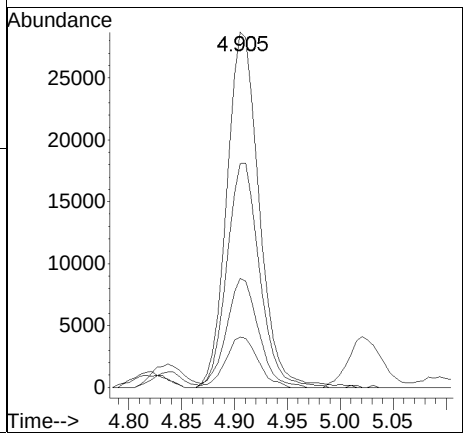


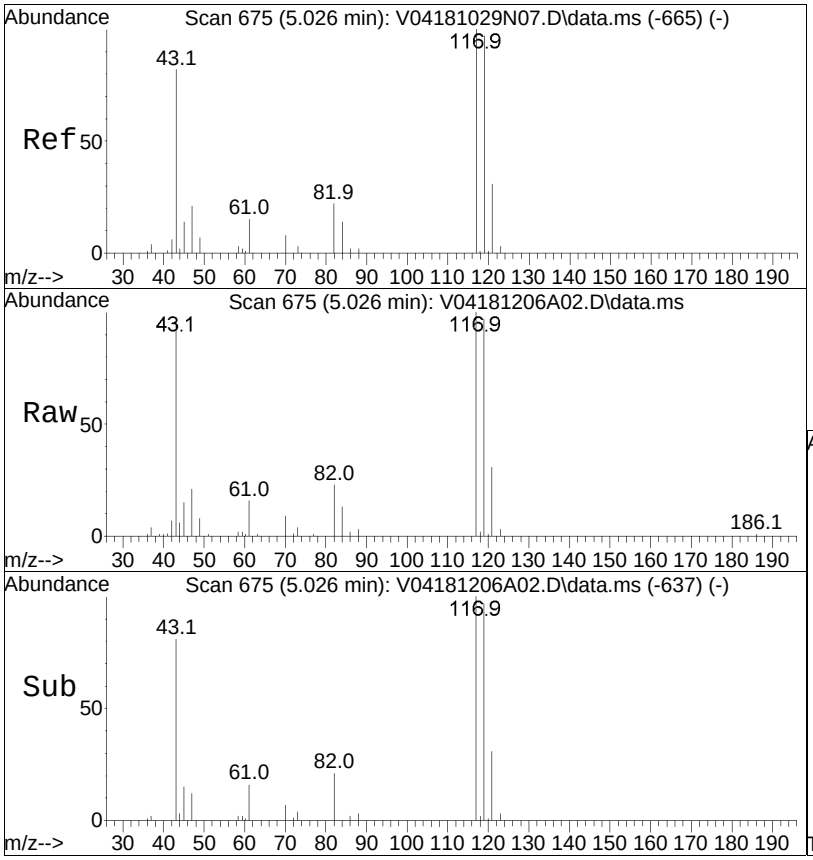


#32
Chloroform
Concen: 20.44 ug/L
RT: 4.905 min Scan# 652
Delta R.T. 0.000 min
Lab File: V04181206A02.D
Acq: 6 Dec 2018 7:11 am

Tgt Ion: 83 Resp: 61266

Ion	Ratio	Lower	Upper
83	100		
85	63.6	41.9	87.1
47	30.2	16.7	34.7
48	14.1	7.9	16.3

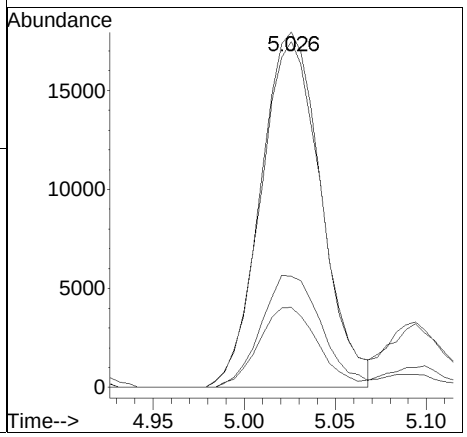


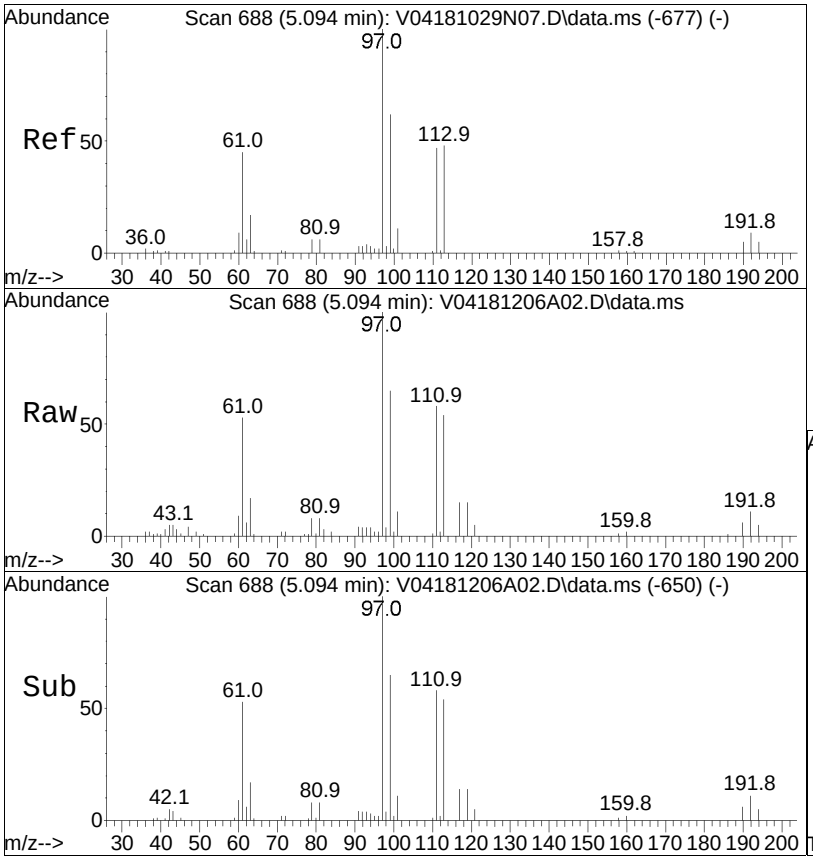


#34
Carbon tetrachloride
Concen: 20.15 ug/L
RT: 5.026 min Scan# 675
Delta R.T. -0.000 min
Lab File: V04181206A02.D
Acq: 6 Dec 2018 7:11 am

Tgt Ion:117 Resp: 41475

Ion	Ratio	Lower	Upper
117	100		
119	97.3	62.9	130.7
121	31.5	20.2	42.0
82	22.0	14.9	30.9

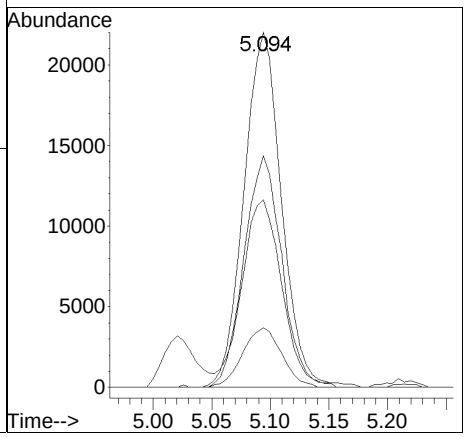


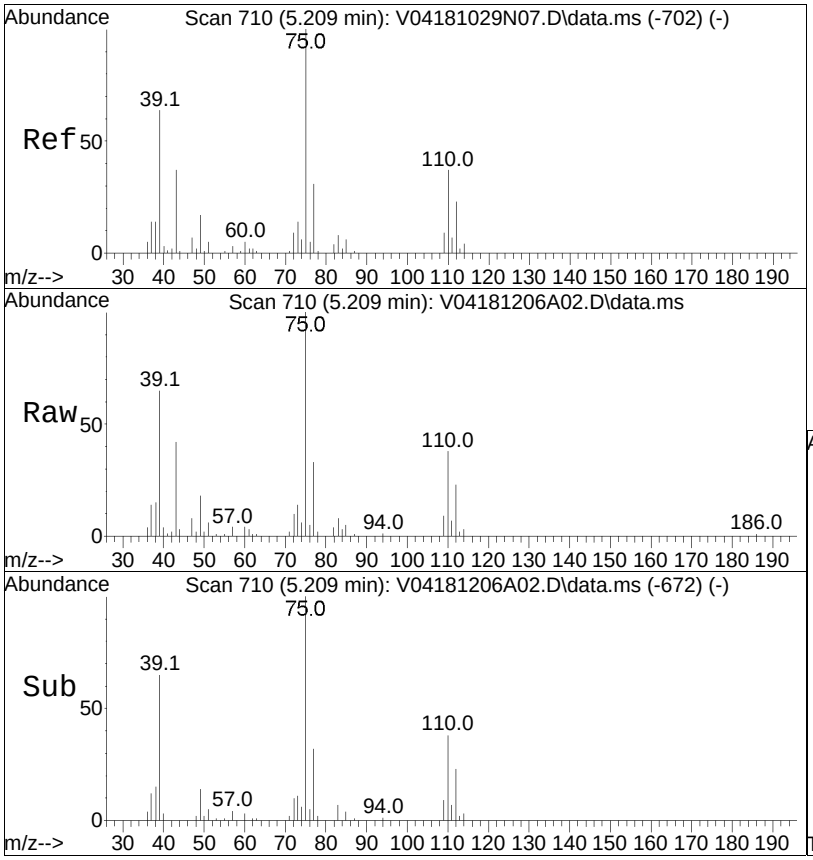


#37
1,1,1-Trichloroethane
Concen: 20.36 ug/L
RT: 5.094 min Scan# 688
Delta R.T. -0.000 min
Lab File: V04181206A02.D
Acq: 6 Dec 2018 7:11 am

Tgt Ion: 97 Resp: 49294

Ion	Ratio	Lower	Upper
97	100		
99	65.6	41.7	86.7
61	56.1	30.9	64.3
63	17.5	9.6	20.0

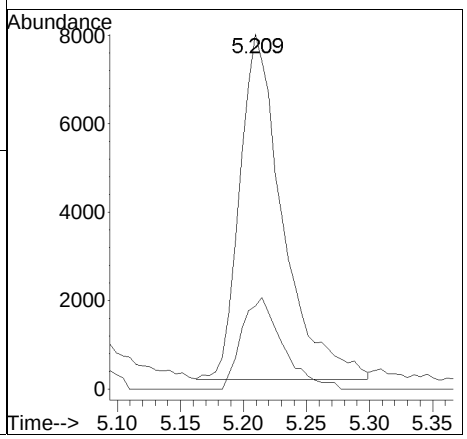


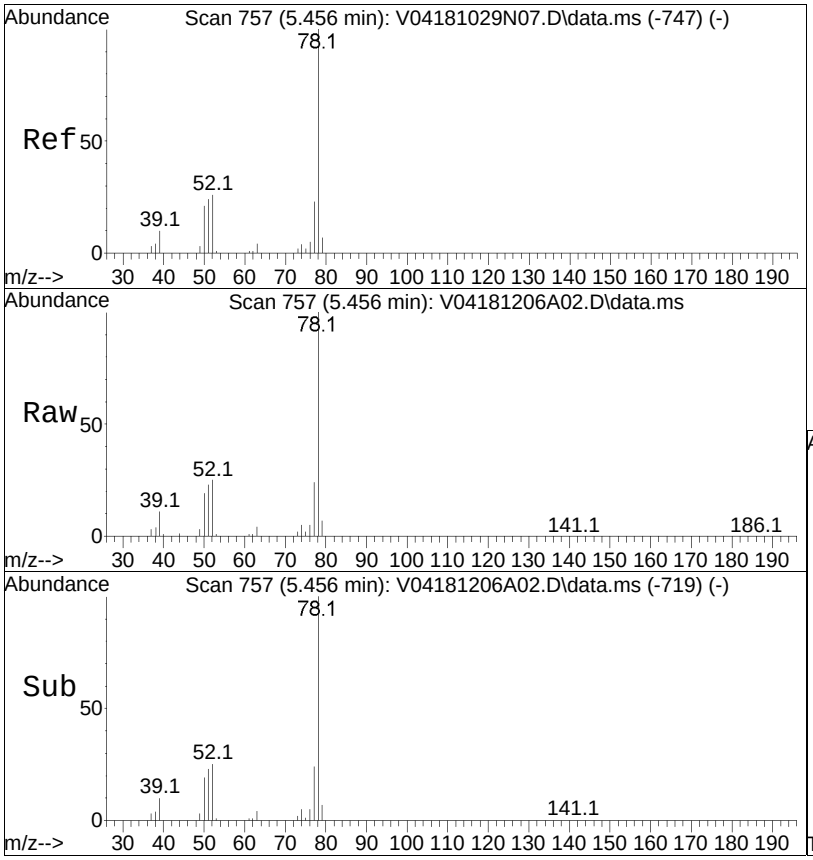


#39
2-Butanone
Concen: 19.42 ug/L
RT: 5.209 min Scan# 710
Delta R.T. 0.000 min
Lab File: V04181206A02.D
Acq: 6 Dec 2018 7:11 am

Tgt Ion: 43 Resp: 18501

Ion	Ratio	Lower	Upper
43	100		
72	25.6	25.8	38.8#

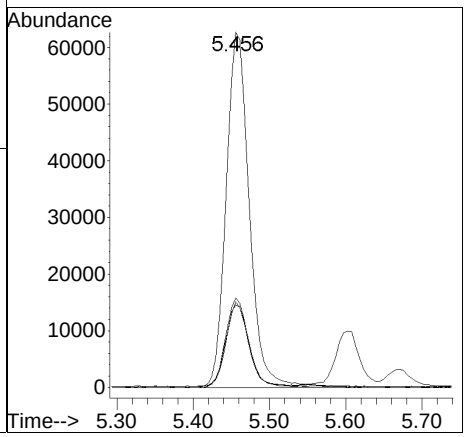


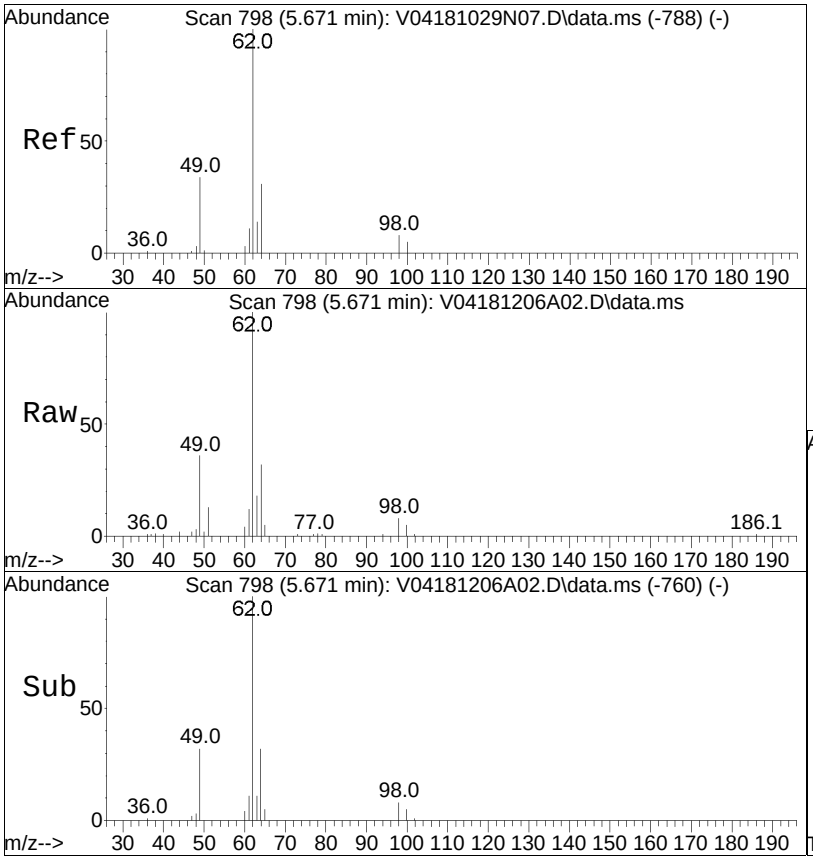


#41
Benzene
Concen: 20.25 ug/L
RT: 5.456 min Scan# 757
Delta R.T. -0.000 min
Lab File: V04181206A02.D
Acq: 6 Dec 2018 7:11 am

Tgt Ion: 78 Resp: 133369

Ion	Ratio	Lower	Upper
78	100		
77	24.1	15.1	31.3
51	22.9	12.2	25.4
52	24.8	11.9	24.7#

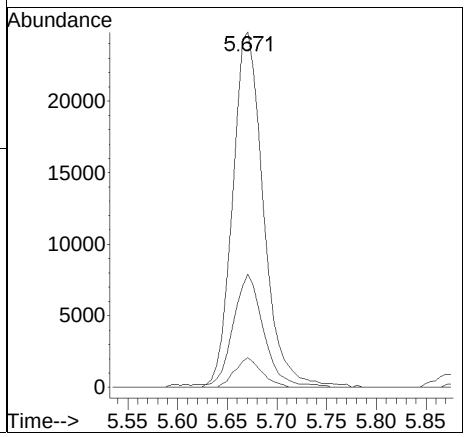


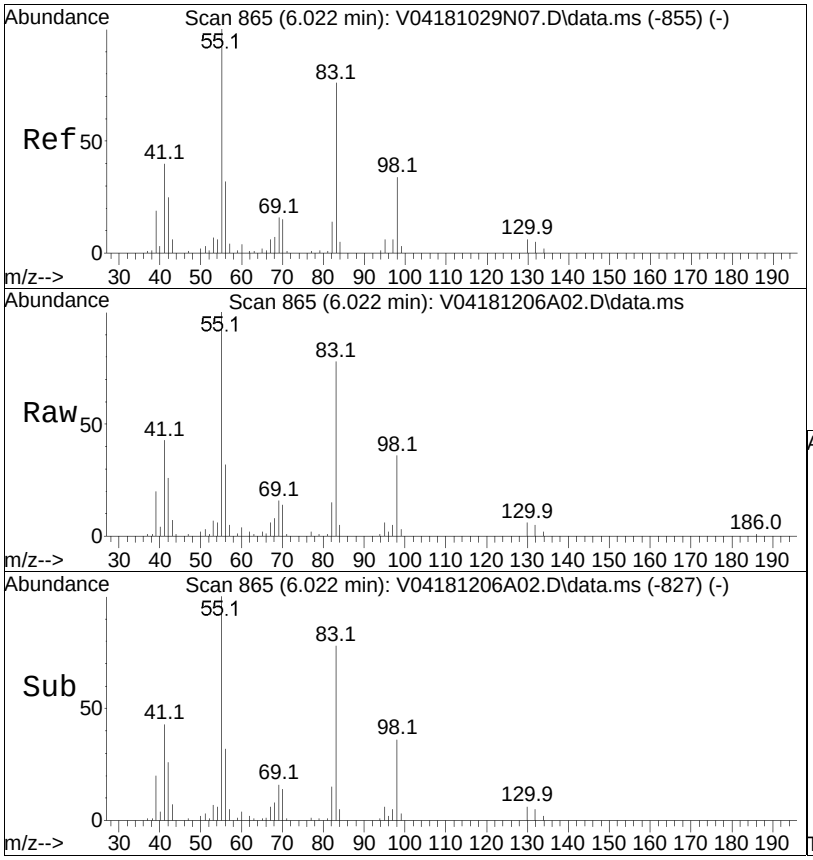


#44
1,2-Dichloroethane
Concen: 20.59 ug/L
RT: 5.671 min Scan# 798
Delta R.T. -0.000 min
Lab File: V04181206A02.D
Acq: 6 Dec 2018 7:11 am

Tgt Ion: 62 Resp: 53862

Ion	Ratio	Lower	Upper
62	100		
64	31.6	11.3	51.3
98	7.3	0.0	27.5

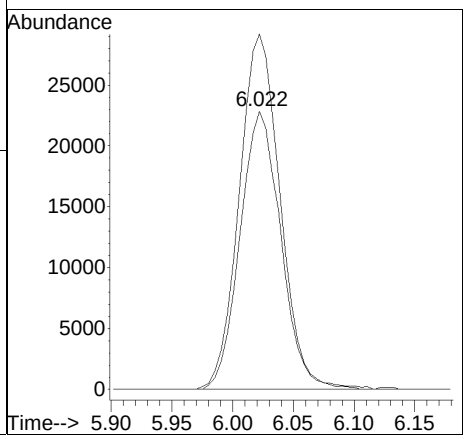


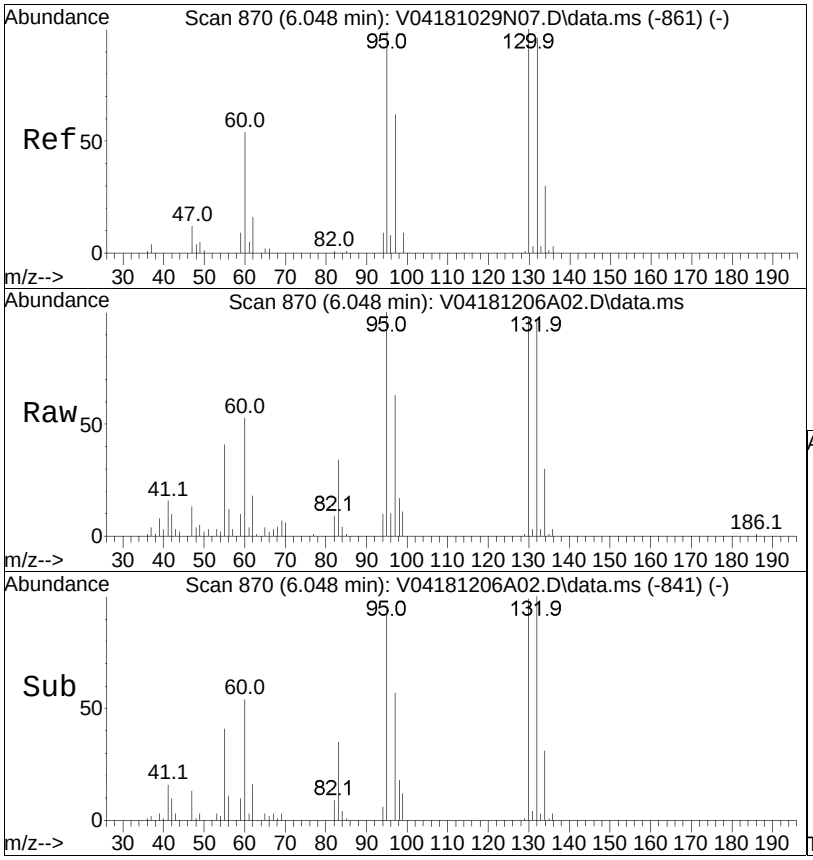


#47
Methyl cyclohexane
Concen: 21.36 ug/L
RT: 6.022 min Scan# 865
Delta R.T. -0.000 min
Lab File: V04181206A02.D
Acq: 6 Dec 2018 7:11 am

Tgt Ion: 83 Resp: 53441

Ion	Ratio	Lower	Upper
83	100		
55	128.1	73.0	109.4#

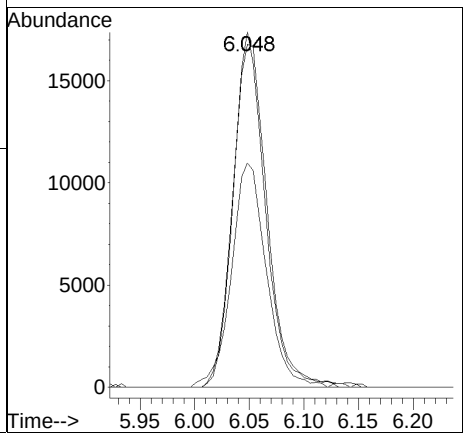


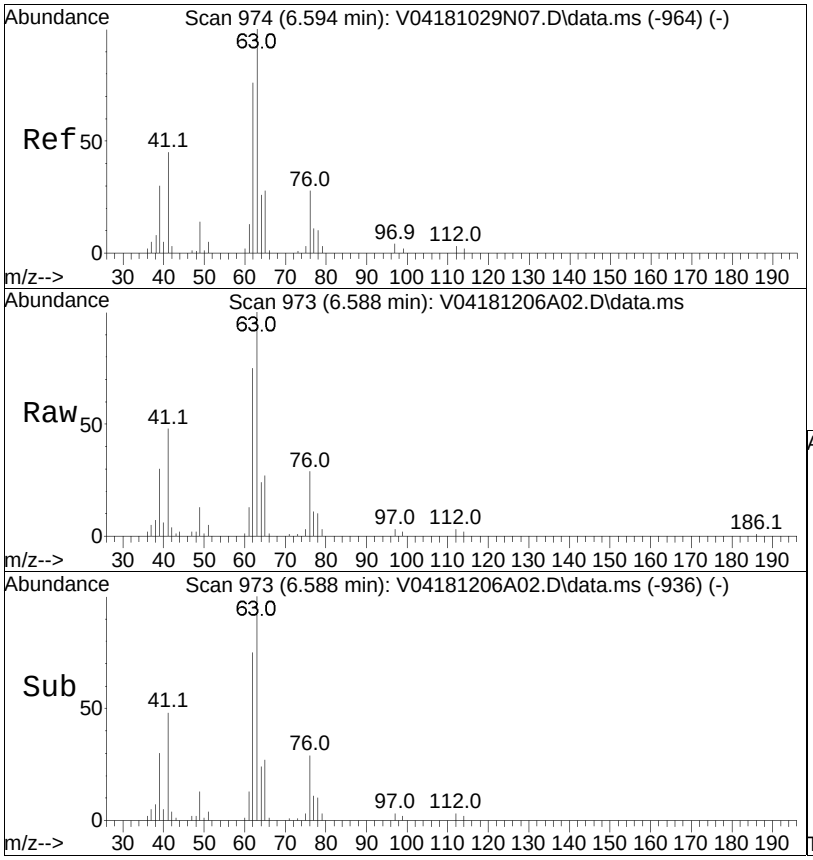


#48
Trichloroethene
Concen: 20.55 ug/L
RT: 6.048 min Scan# 870
Delta R.T. 0.000 min
Lab File: V04181206A02.D
Acq: 6 Dec 2018 7:11 am

Tgt Ion: 95 Resp: 35983

Ion	Ratio	Lower	Upper
95	100		
97	68.2	53.9	80.9
130	102.1	83.1	124.7

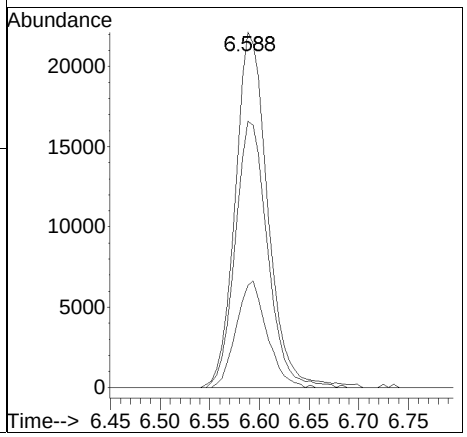


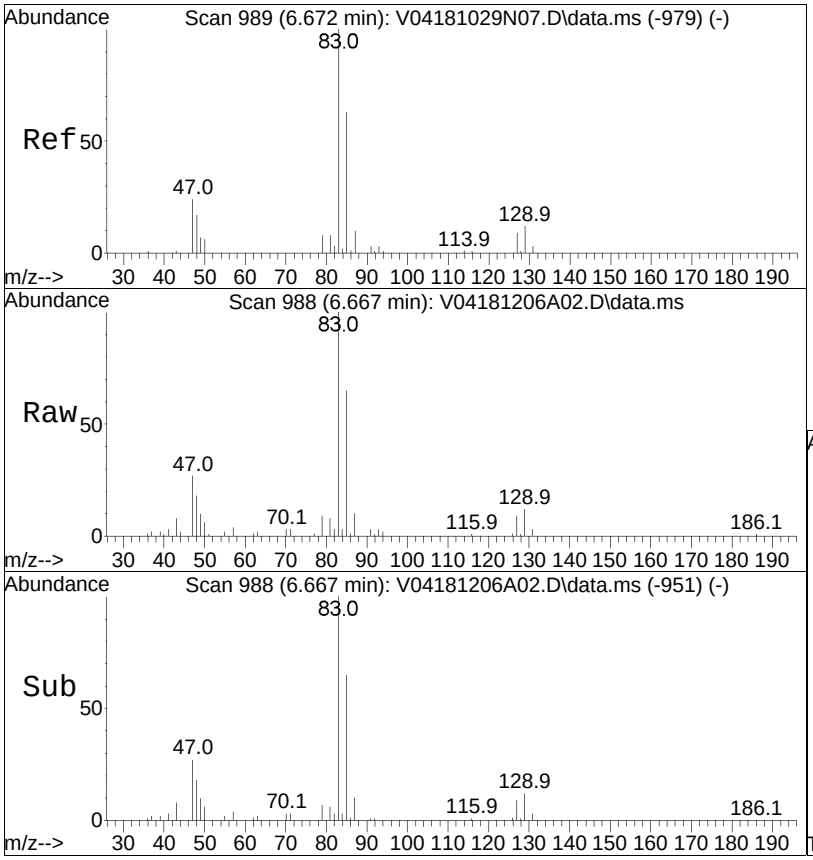


#51
1,2-Dichloropropane
Concen: 20.33 ug/L
RT: 6.588 min Scan# 973
Delta R.T. -0.006 min
Lab File: V04181206A02.D
Acq: 6 Dec 2018 7:11 am

Tgt Ion: 63 Resp: 50457

Ion	Ratio	Lower	Upper
63	100		
62	74.6	58.2	87.2
76	28.3	31.4	47.2#

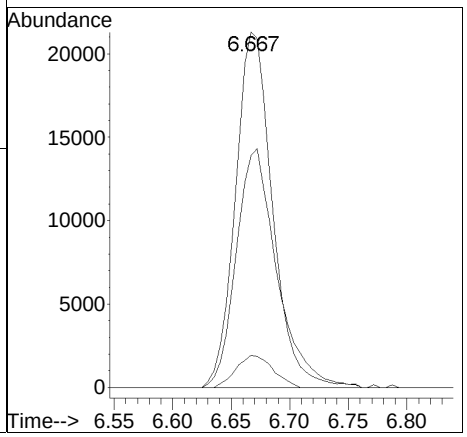


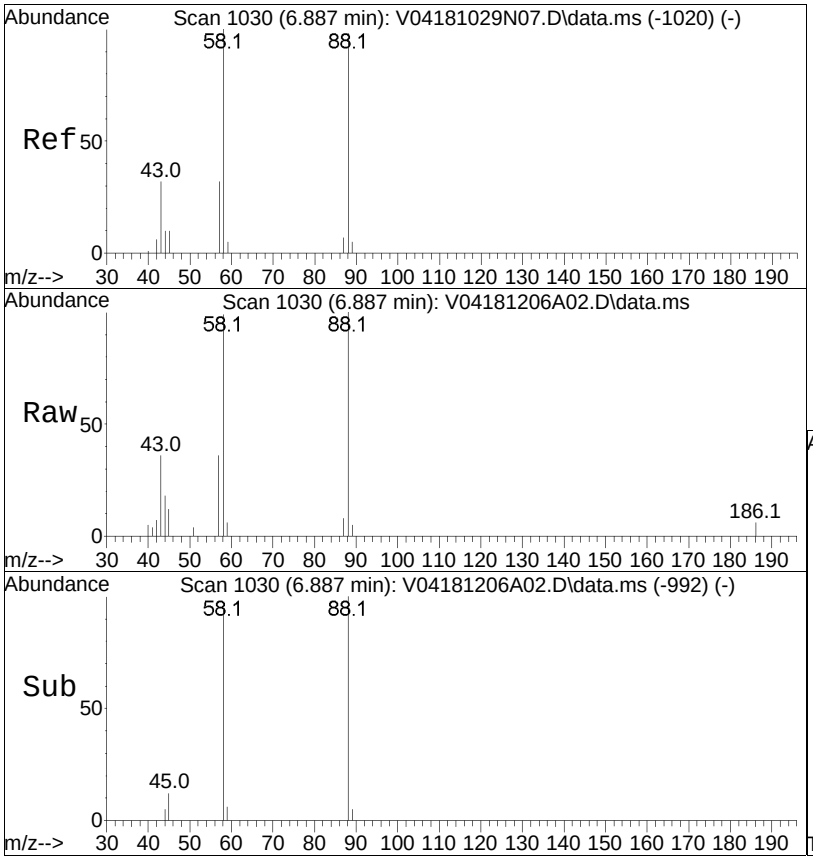


#54
Bromodichloromethane
Concen: 21.00 ug/L
RT: 6.667 min Scan# 988
Delta R.T. -0.005 min
Lab File: V04181206A02.D
Acq: 6 Dec 2018 7:11 am

Tgt Ion: 83 Resp: 46907

Ion	Ratio	Lower	Upper
83	100		
85	73.8	51.2	76.8
127	9.0	7.3	10.9

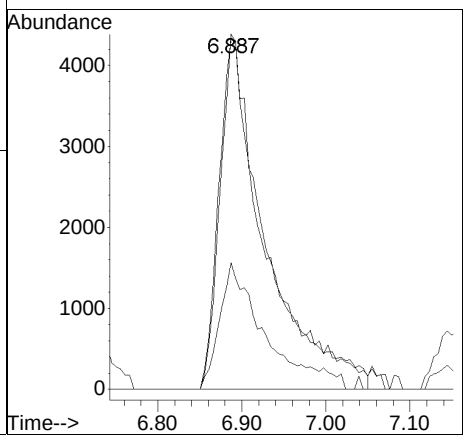


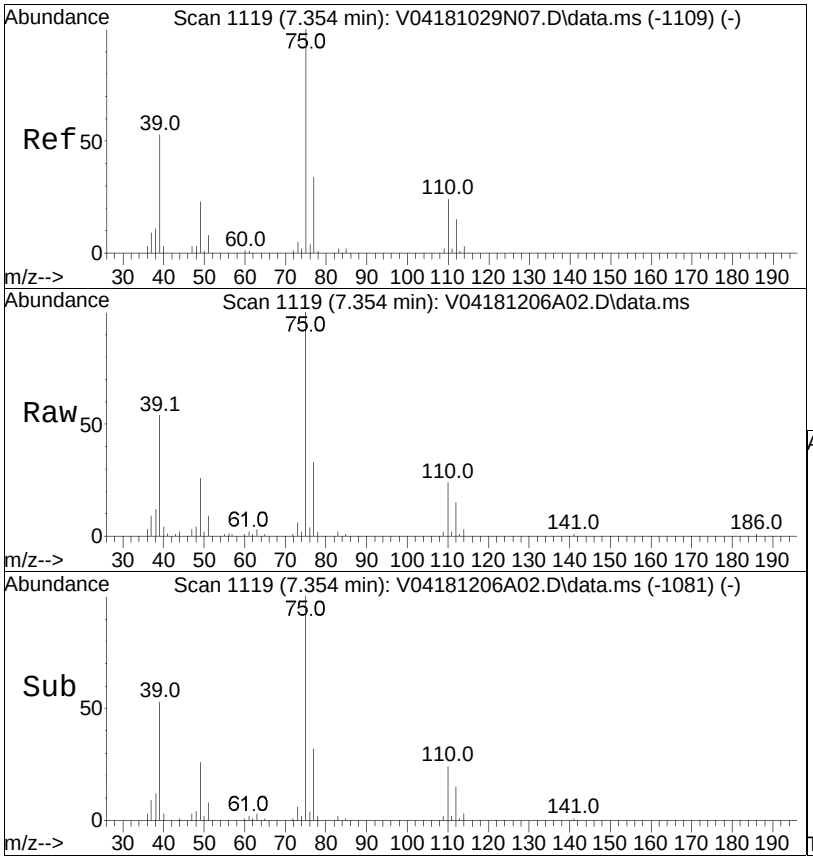


#57
1,4-Dioxane
Concen: 955.53 ug/L
RT: 6.887 min Scan# 1030
Delta R.T. 0.000 min
Lab File: V04181206A02.D
Acq: 6 Dec 2018 7:11 am

Tgt Ion: 88 Resp: 16119

Ion	Ratio	Lower	Upper
88	100		
58	104.3	57.1	85.7#
43	36.6	22.9	34.3#

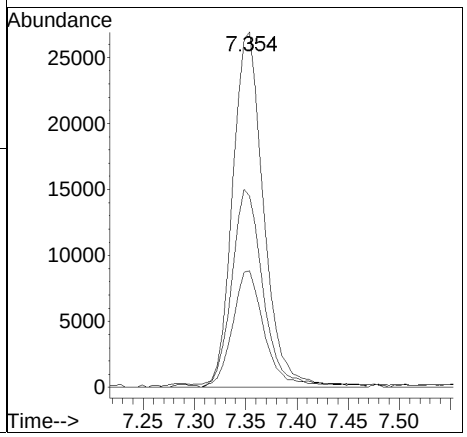


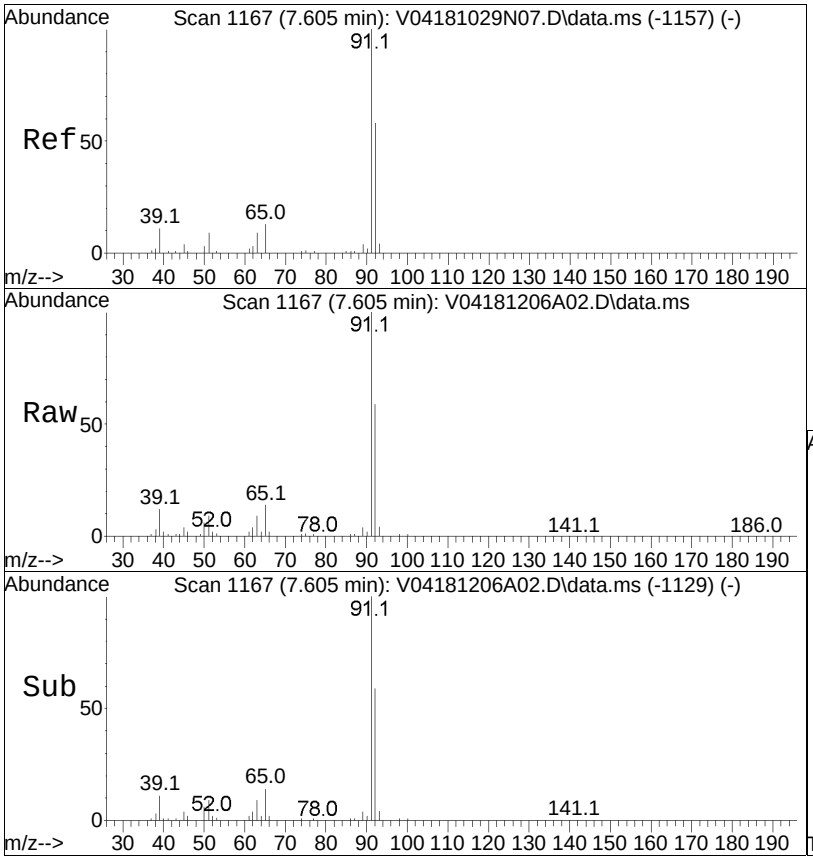


#58
cis-1,3-Dichloropropene
Concen: 22.33 ug/L
RT: 7.354 min Scan# 1119
Delta R.T. -0.000 min
Lab File: V04181206A02.D
Acq: 6 Dec 2018 7:11 am

Tgt Ion: 75 Resp: 56951

Ion	Ratio	Lower	Upper
75	100		
77	33.7	25.3	37.9
39	54.8	40.2	60.2

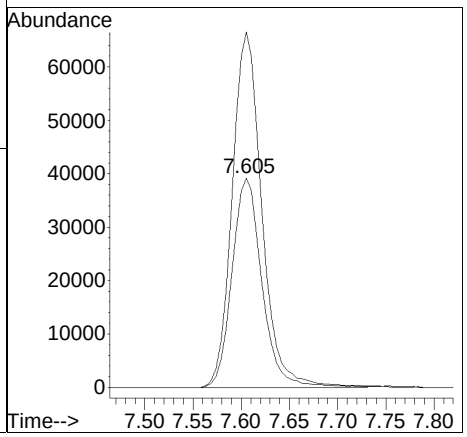


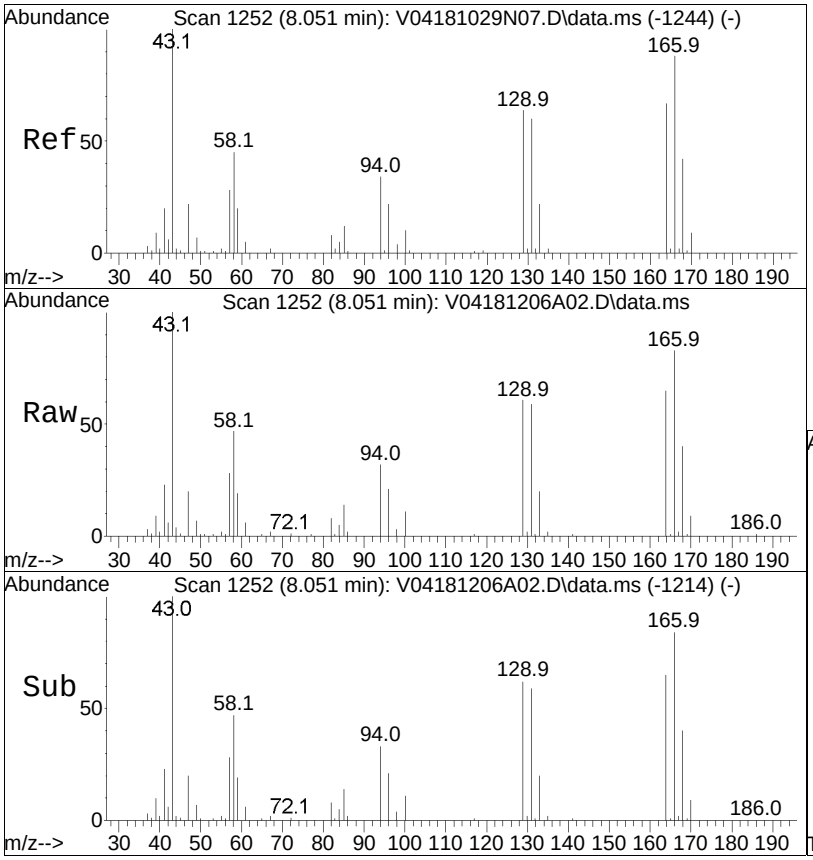


#61
Toluene
Concen: 19.57 ug/L
RT: 7.605 min Scan# 1167
Delta R.T. 0.000 min
Lab File: V04181206A02.D
Acq: 6 Dec 2018 7:11 am

Tgt Ion: 92 Resp: 84549

Ion	Ratio	Lower	Upper
92	100		
91	168.7	135.8	203.6

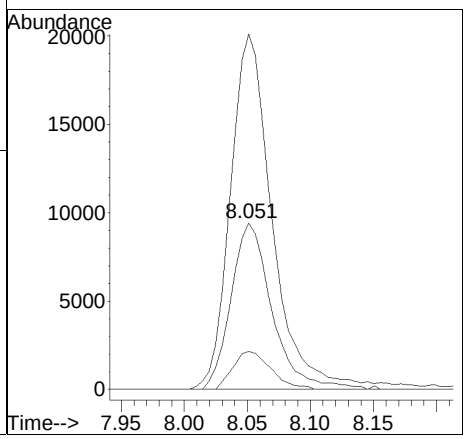


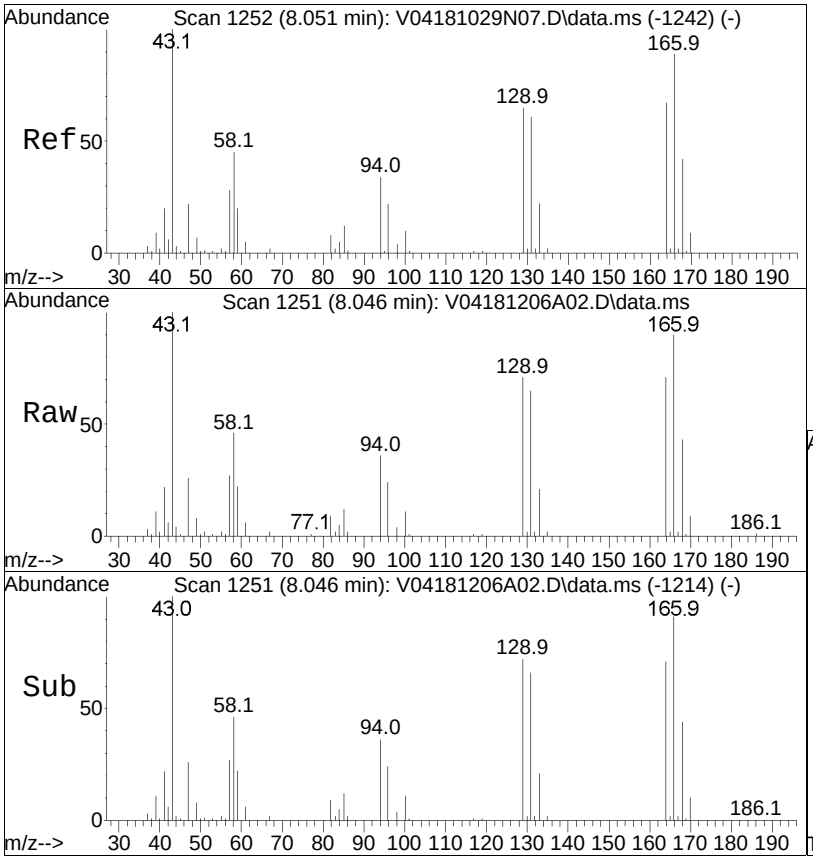


#62
4-Methyl-2-pentanone
Concen: 22.10 ug/L
RT: 8.051 min Scan# 1252
Delta R.T. 0.000 min
Lab File: V04181206A02.D
Acq: 6 Dec 2018 7:11 am

Tgt Ion: 58 Resp: 21279

Ion	Ratio	Lower	Upper
58	100		
100	21.4	25.6	38.4#
43	221.0	195.7	293.5

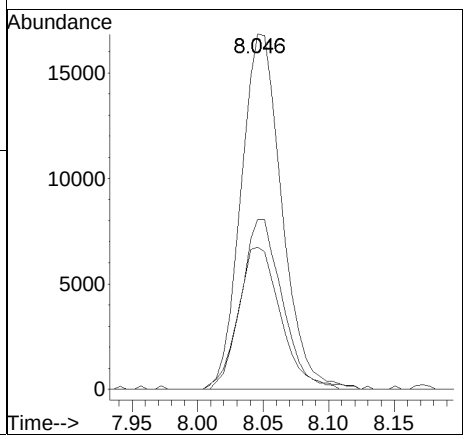


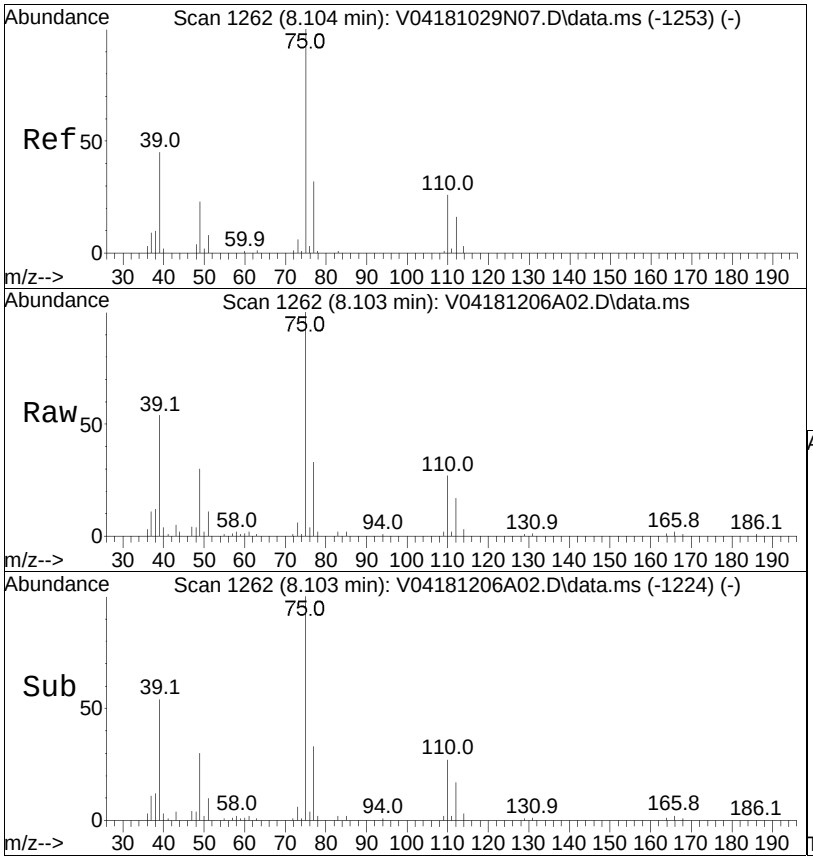


#63
Tetrachloroethene
Concen: 20.48 ug/L
RT: 8.046 min Scan# 1251
Delta R.T. -0.005 min
Lab File: V04181206A02.D
Acq: 6 Dec 2018 7:11 am

Tgt Ion:166 Resp: 36544

Ion	Ratio	Lower	Upper
166	100		
168	47.9	27.6	67.6
94	42.4	20.9	60.9

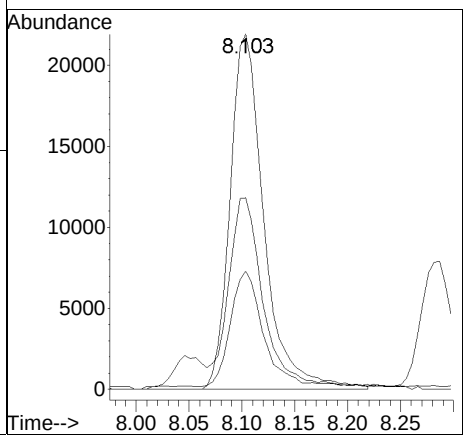


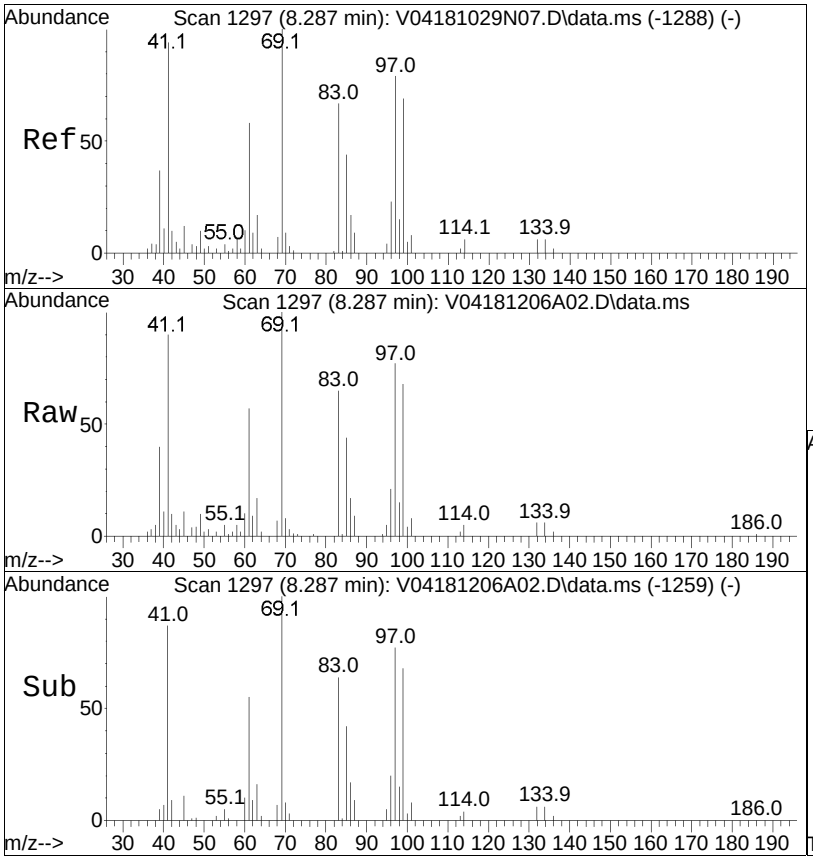


#65
trans-1,3-Dichloropropene
Concen: 19.89 ug/L
RT: 8.103 min Scan# 1262
Delta R.T. -0.001 min
Lab File: V04181206A02.D
Acq: 6 Dec 2018 7:11 am

Tgt Ion: 75 Resp: 49013

Ion	Ratio	Lower	Upper
75	100		
77	32.9	12.0	52.0
39	54.3	29.3	69.3

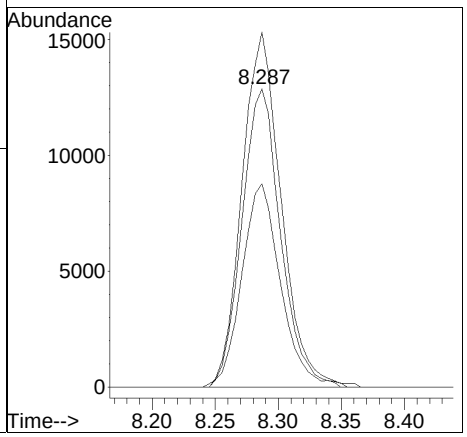


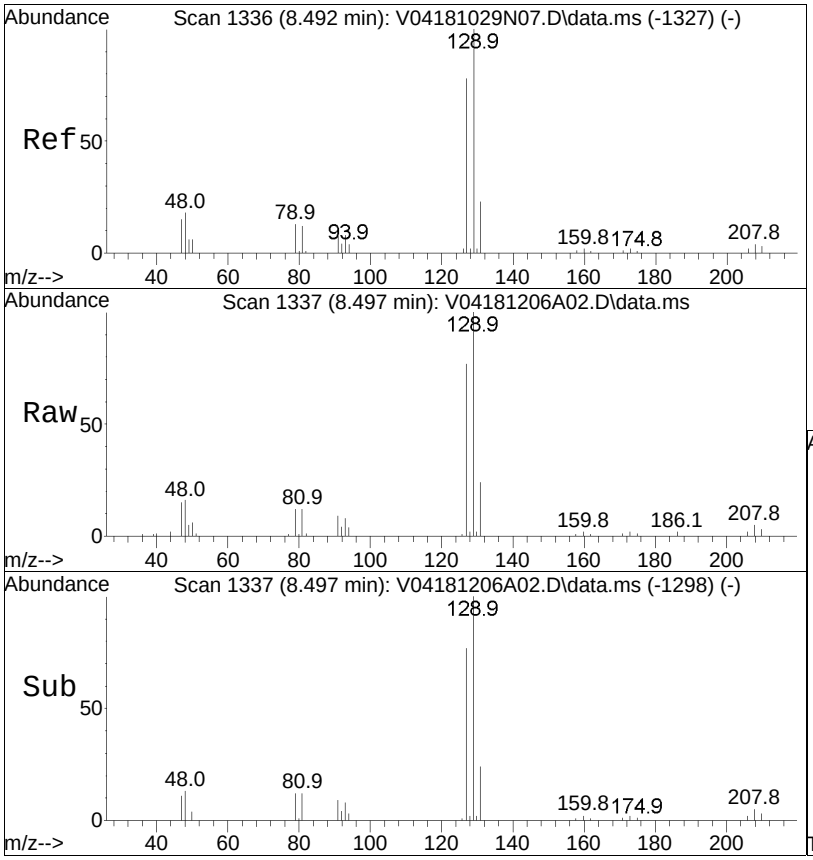


#68
1,1,2-Trichloroethane
Concen: 21.03 ug/L
RT: 8.287 min Scan# 1297
Delta R.T. -0.000 min
Lab File: V04181206A02.D
Acq: 6 Dec 2018 7:11 am

Tgt Ion: 83 Resp: 27748

Ion	Ratio	Lower	Upper
83	100		
97	119.3	99.3	139.3
85	67.6	47.8	87.8

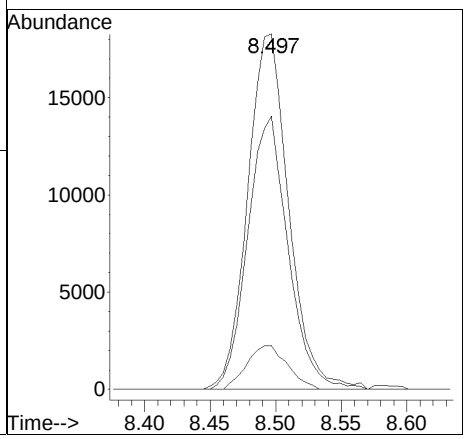


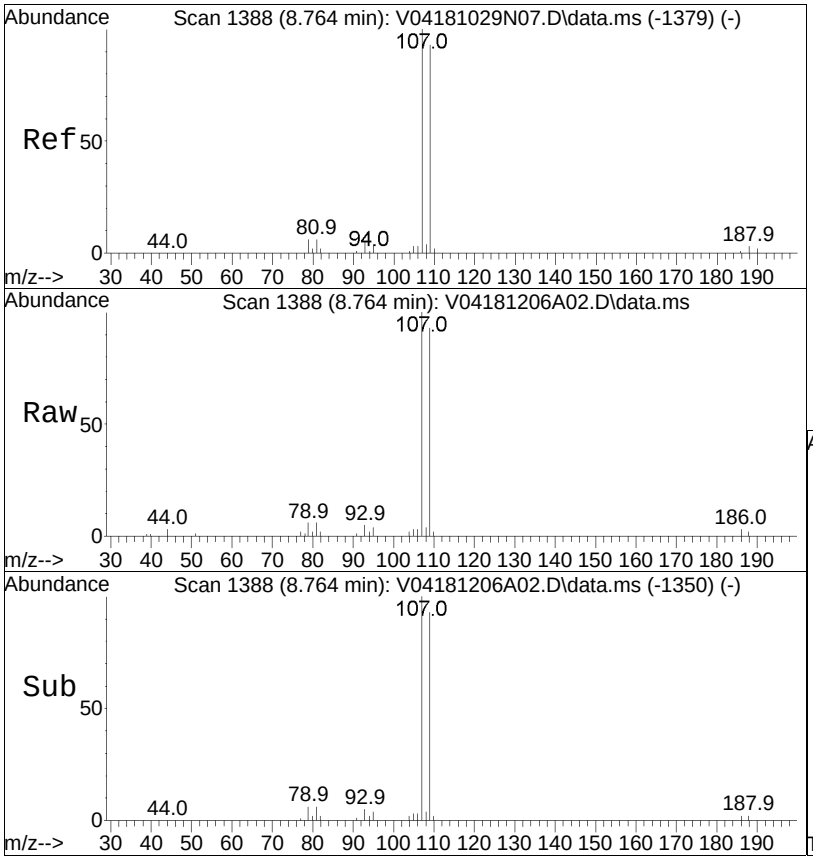


#69
Chlorodibromomethane
Concen: 20.83 ug/L
RT: 8.497 min Scan# 1337
Delta R.T. 0.005 min
Lab File: V04181206A02.D
Acq: 6 Dec 2018 7:11 am

Tgt Ion:129 Resp: 39908

Ion	Ratio	Lower	Upper
129	100		
81	12.2	0.0	34.6
127	75.7	56.9	96.9

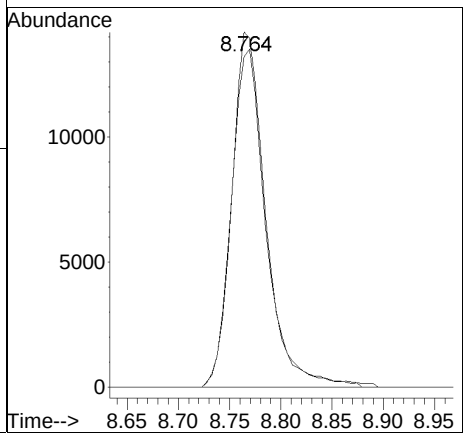


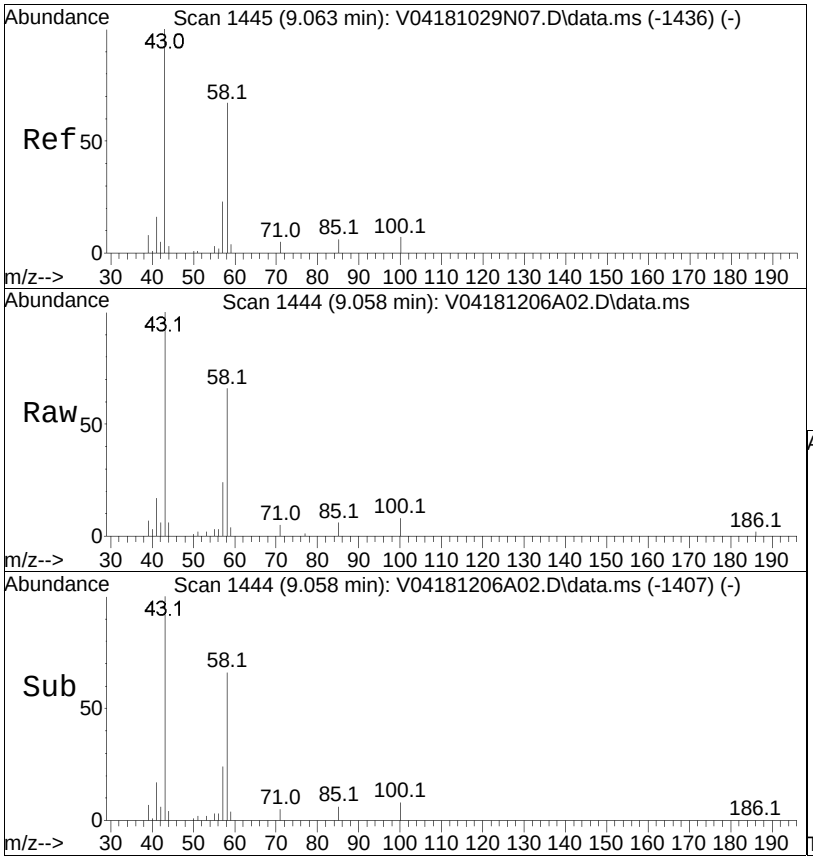


#71
1,2-Dibromoethane
Concen: 20.51 ug/L
RT: 8.764 min Scan# 1388
Delta R.T. 0.000 min
Lab File: V04181206A02.D
Acq: 6 Dec 2018 7:11 am

Tgt Ion:107 Resp: 33001

Ion	Ratio	Lower	Upper
107	100		
109	96.2	75.4	113.0

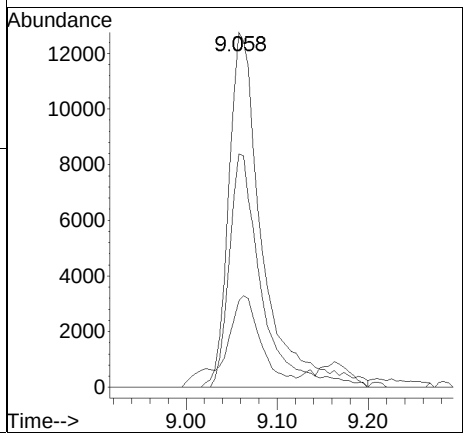


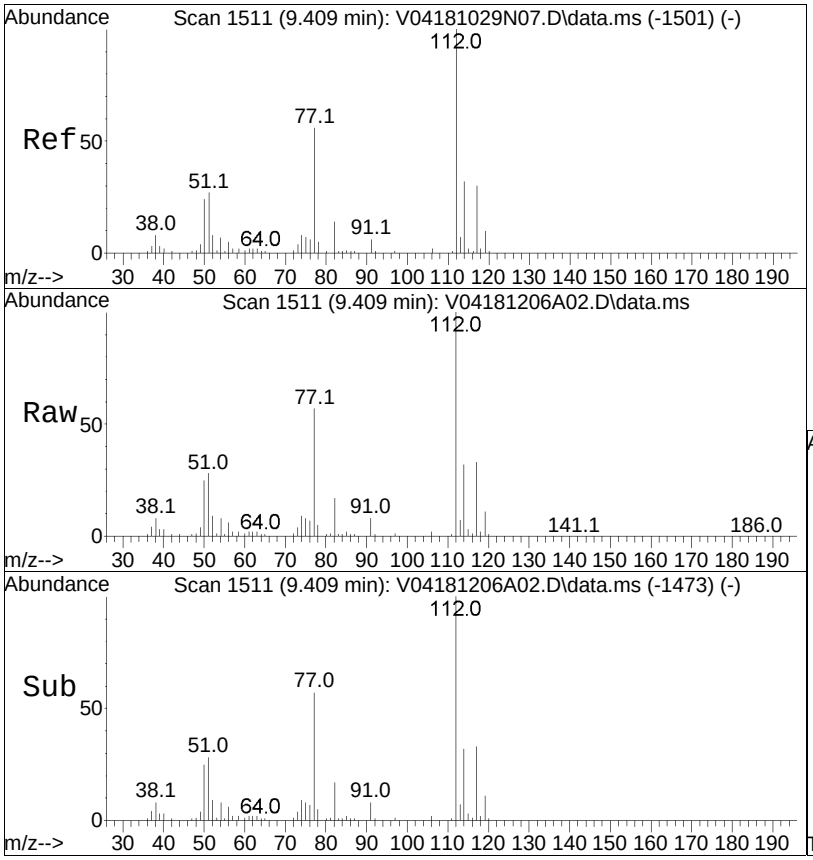


#72
2-Hexanone
Concen: 21.64 ug/L
RT: 9.058 min Scan# 1444
Delta R.T. -0.005 min
Lab File: V04181206A02.D
Acq: 6 Dec 2018 7:11 am

Tgt Ion: 43 Resp: 32718

Ion	Ratio	Lower	Upper
43	100		
58	63.1	44.7	67.1
57	28.0	15.4	23.0#

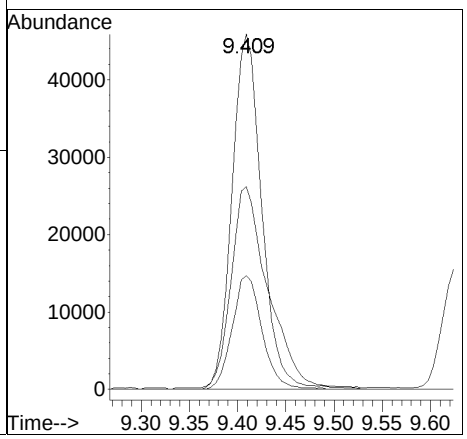


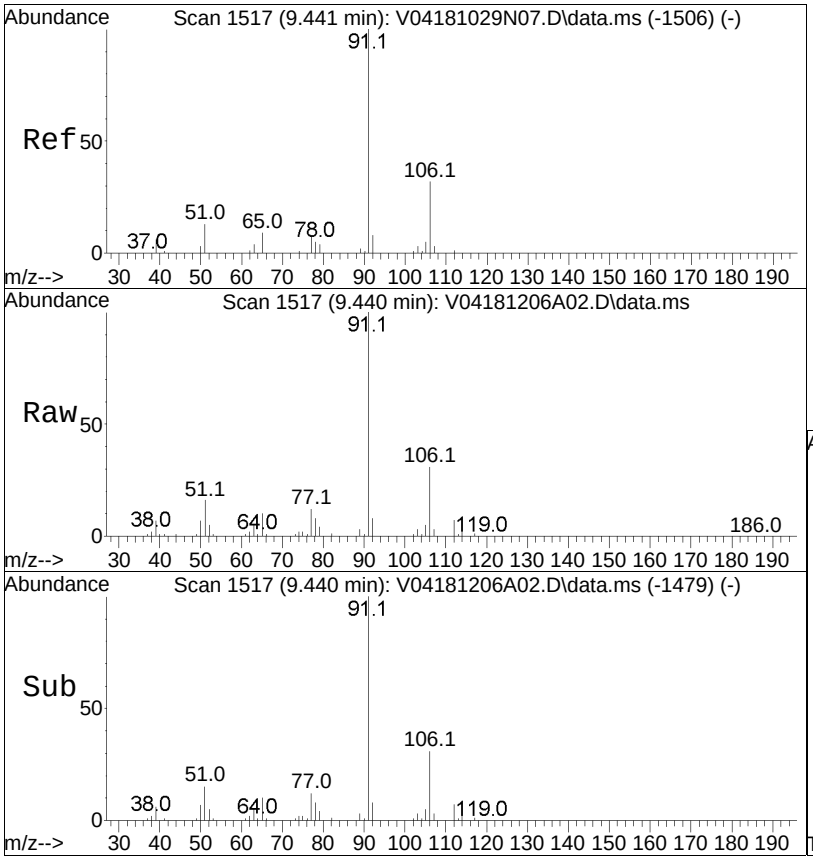


#73
Chlorobenzene
Concen: 19.79 ug/L
RT: 9.409 min Scan# 1511
Delta R.T. -0.000 min
Lab File: V04181206A02.D
Acq: 6 Dec 2018 7:11 am

Tgt Ion:112 Resp: 98660

Ion	Ratio	Lower	Upper
112	100		
77	70.1	55.3	82.9
114	32.2	25.5	38.3

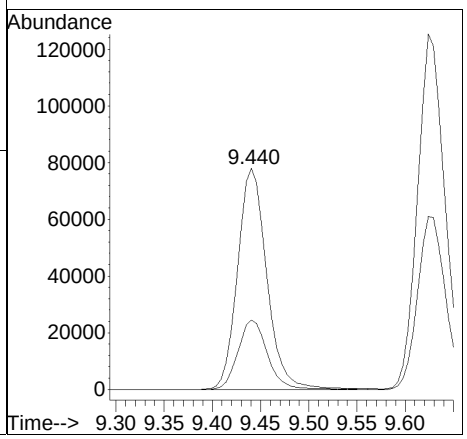


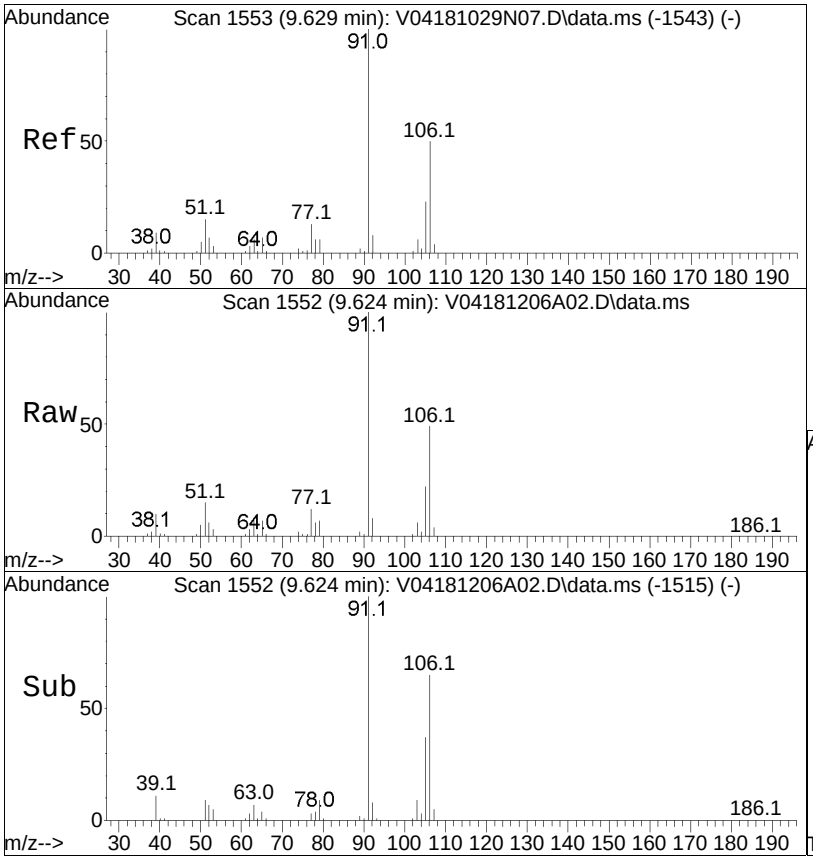


#74
Ethylbenzene
Concen: 19.94 ug/L
RT: 9.440 min Scan# 1517
Delta R.T. -0.001 min
Lab File: V04181206A02.D
Acq: 6 Dec 2018 7:11 am

Tgt Ion: 91 Resp: 164502

Ion	Ratio	Lower	Upper
91	100		
106	31.4	25.4	38.2

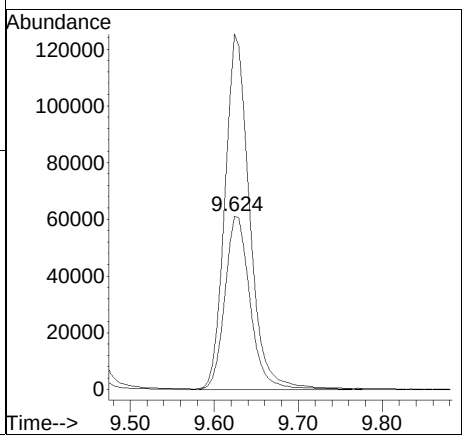


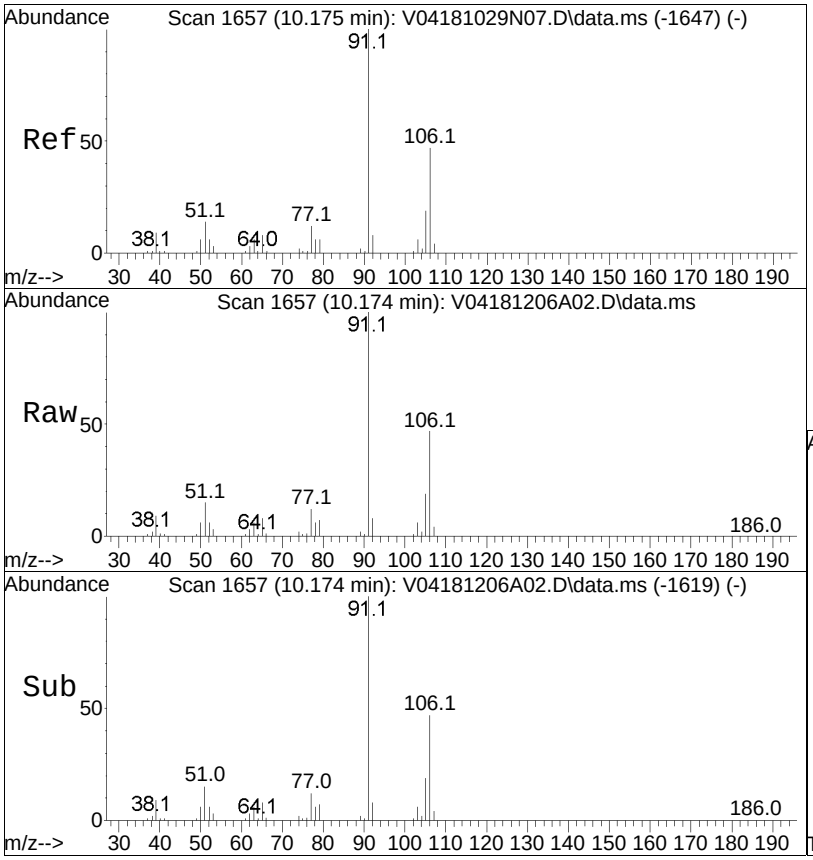


#76
p/m Xylene
Concen: 41.16 ug/L
RT: 9.624 min Scan# 1552
Delta R.T. -0.005 min
Lab File: V04181206A02.D
Acq: 6 Dec 2018 7:11 am

Tgt Ion:106 Resp: 127693

Ion	Ratio	Lower	Upper
106	100		
91	198.6	157.1	235.7

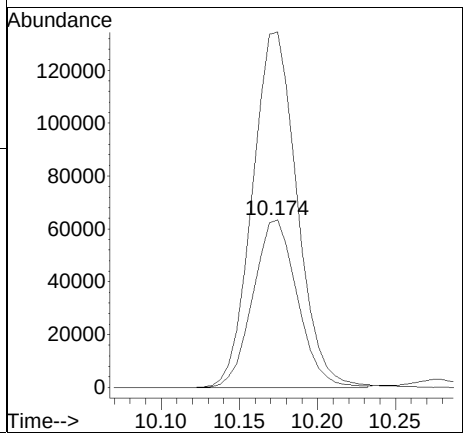


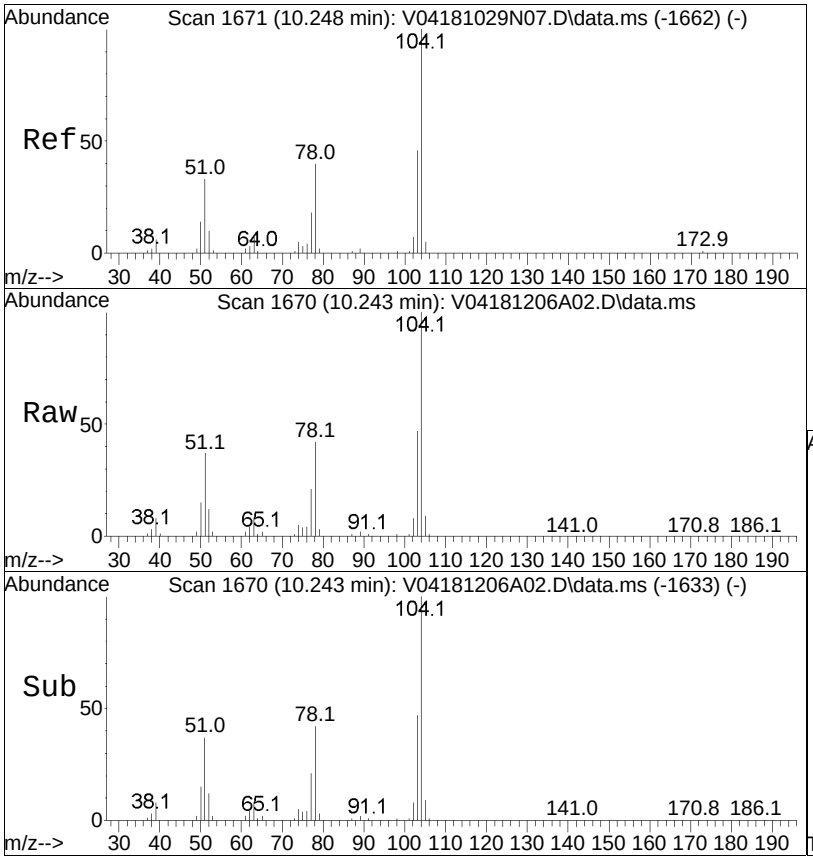


#77
o Xylene
Concen: 41.01 ug/L
RT: 10.174 min Scan# 1657
Delta R.T. -0.001 min
Lab File: V04181206A02.D
Acq: 6 Dec 2018 7:11 am

Tgt Ion:106 Resp: 125323

Ion	Ratio	Lower	Upper
106	100		
91	214.1	165.9	248.9

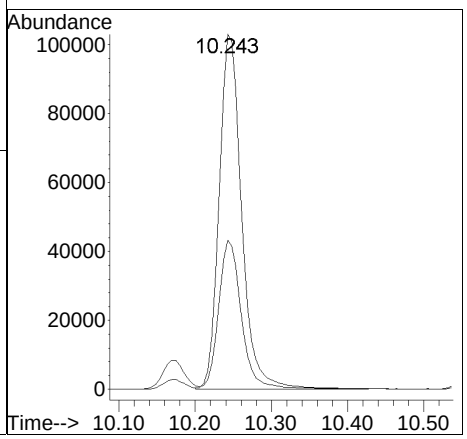


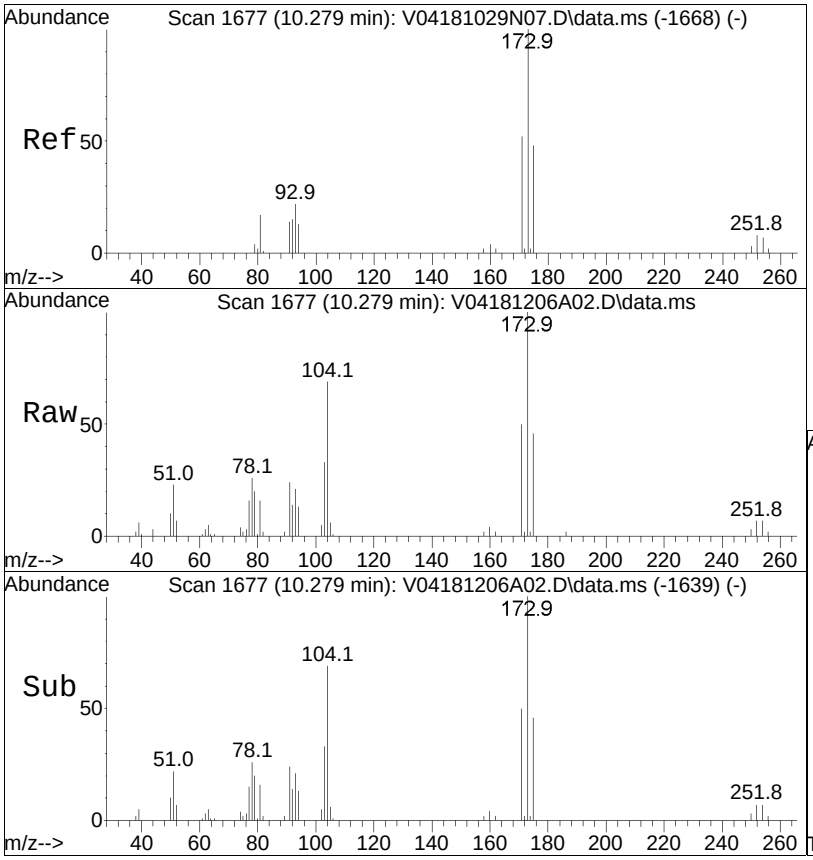


#78
Styrene
Concen: 42.32 ug/L
RT: 10.243 min Scan# 1670
Delta R.T. -0.005 min
Lab File: V04181206A02.D
Acq: 6 Dec 2018 7:11 am

Tgt Ion:104 Resp: 211267

Ion	Ratio	Lower	Upper
104	100		
78	42.0	33.0	49.4

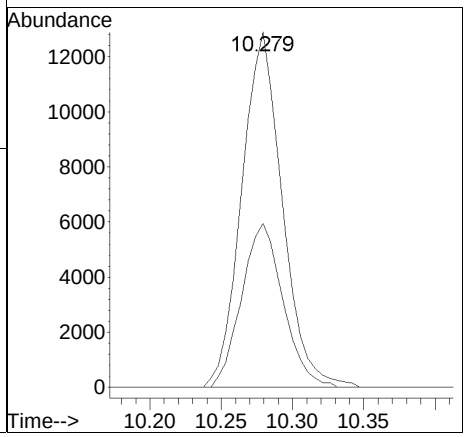


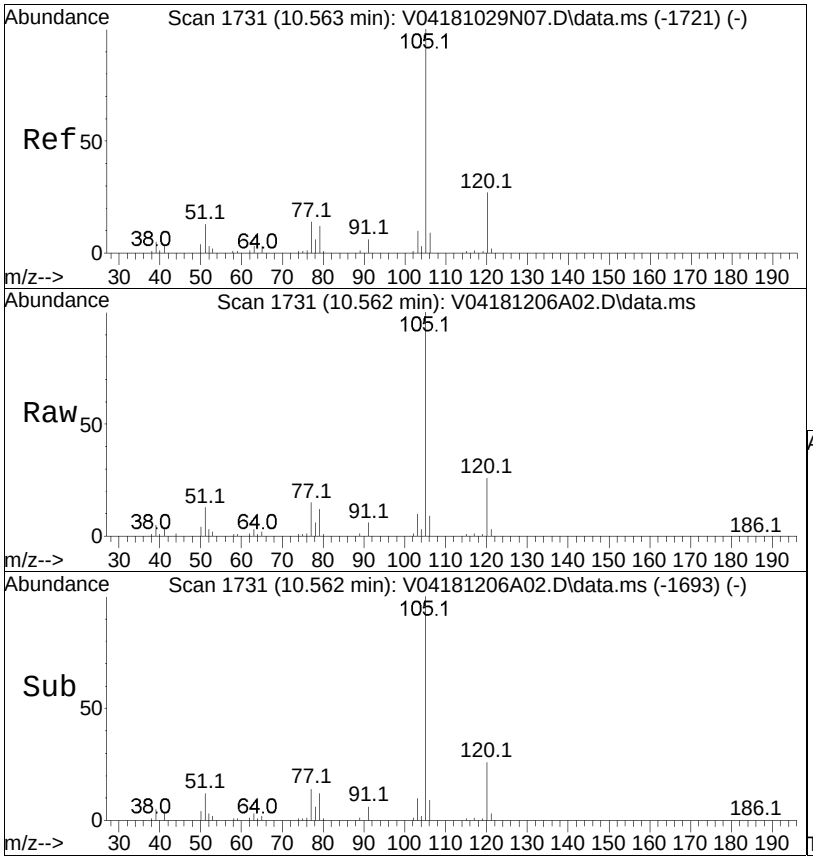


#80
Bromoform
Concen: 20.93 ug/L
RT: 10.279 min Scan# 1677
Delta R.T. 0.000 min
Lab File: V04181206A02.D
Acq: 6 Dec 2018 7:11 am

Tgt Ion:173 Resp: 25557

Ion	Ratio	Lower	Upper
173	100		
175	47.2	28.2	68.2

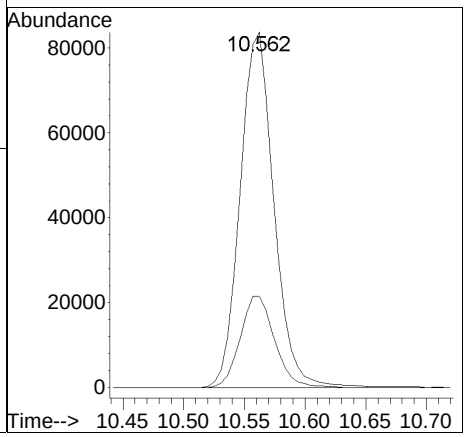


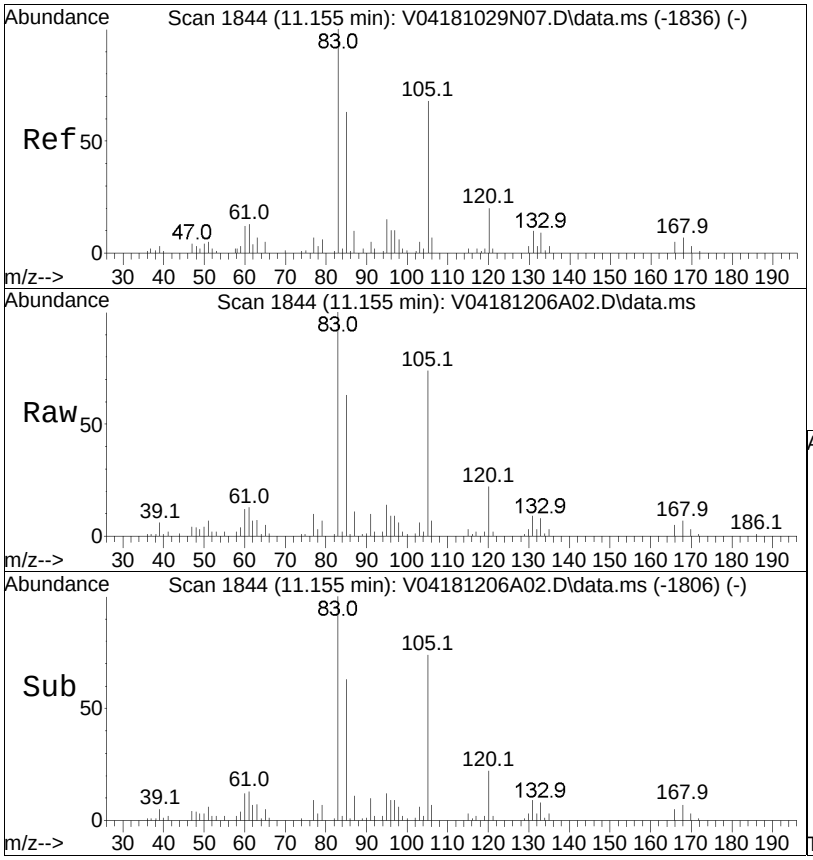


#82
Isopropylbenzene
Concen: 19.38 ug/L
RT: 10.562 min Scan# 1731
Delta R.T. -0.001 min
Lab File: V04181206A02.D
Acq: 6 Dec 2018 7:11 am

Tgt Ion:105 Resp: 161771

Ion	Ratio	Lower	Upper
105	100		
120	26.1	6.0	46.0

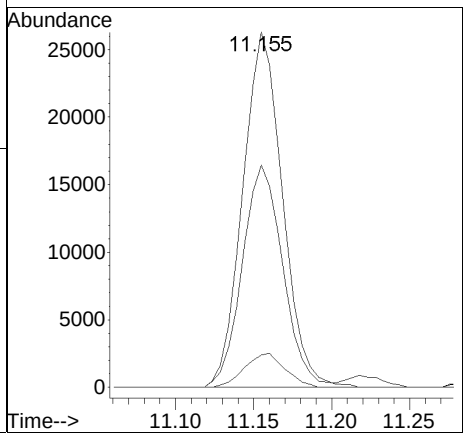


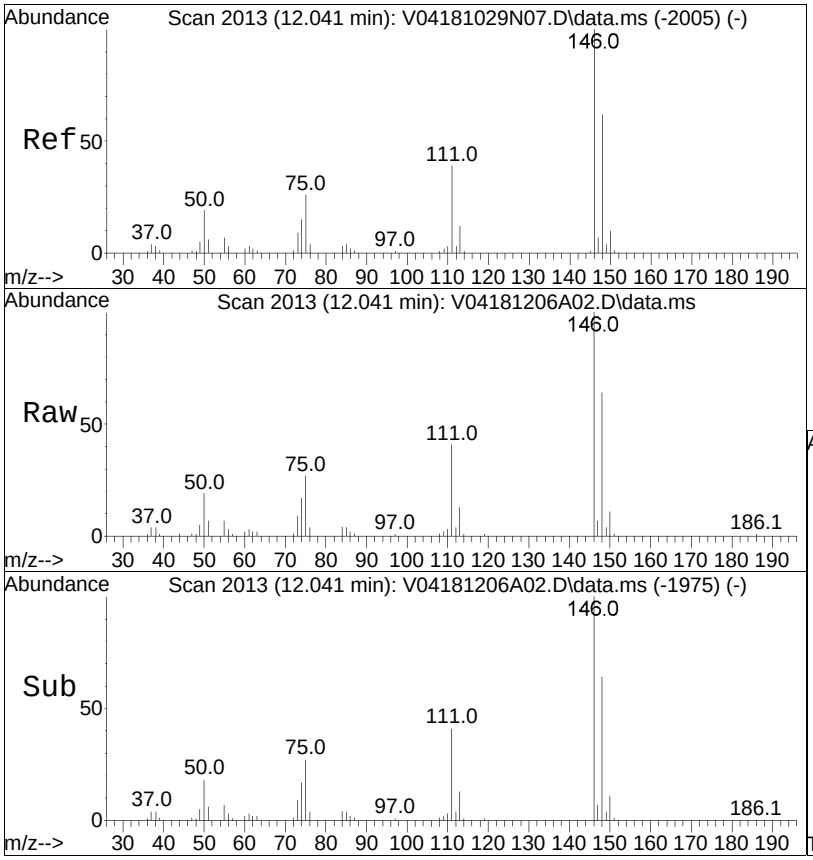


#87
1,1,2,2-Tetrachloroethane
Concen: 22.17 ug/L
RT: 11.155 min Scan# 1844
Delta R.T. -0.000 min
Lab File: V04181206A02.D
Acq: 6 Dec 2018 7:11 am

Tgt Ion: 83 Resp: 46594

Ion	Ratio	Lower	Upper
83	100		
131	9.8	0.0	30.7
85	63.8	44.7	84.7

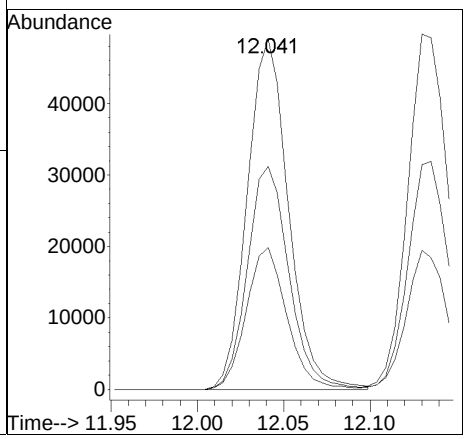


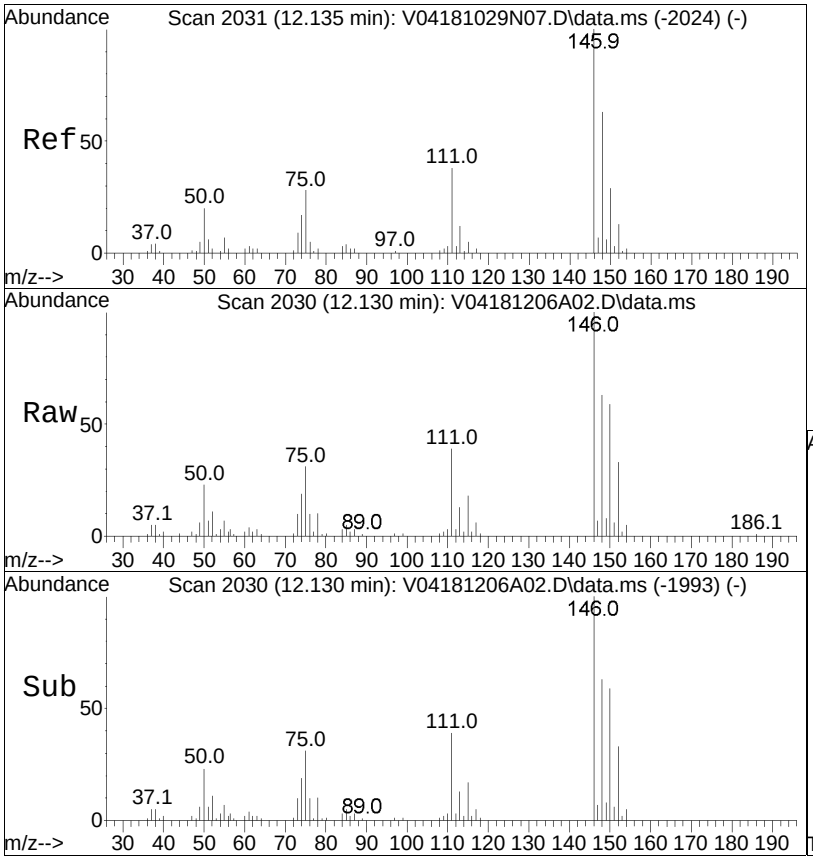


#100
1,3-Dichlorobenzene
Concen: 20.35 ug/L
RT: 12.041 min Scan# 2013
Delta R.T. -0.000 min
Lab File: V04181206A02.D
Acq: 6 Dec 2018 7:11 am

Tgt Ion:146 Resp: 81560

Ion	Ratio	Lower	Upper
146	100		
111	39.9	24.8	51.6
148	63.9	41.6	86.4

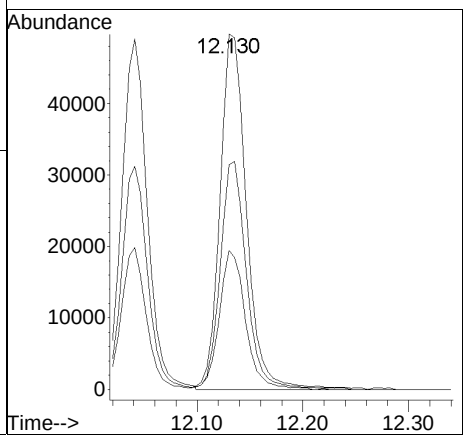


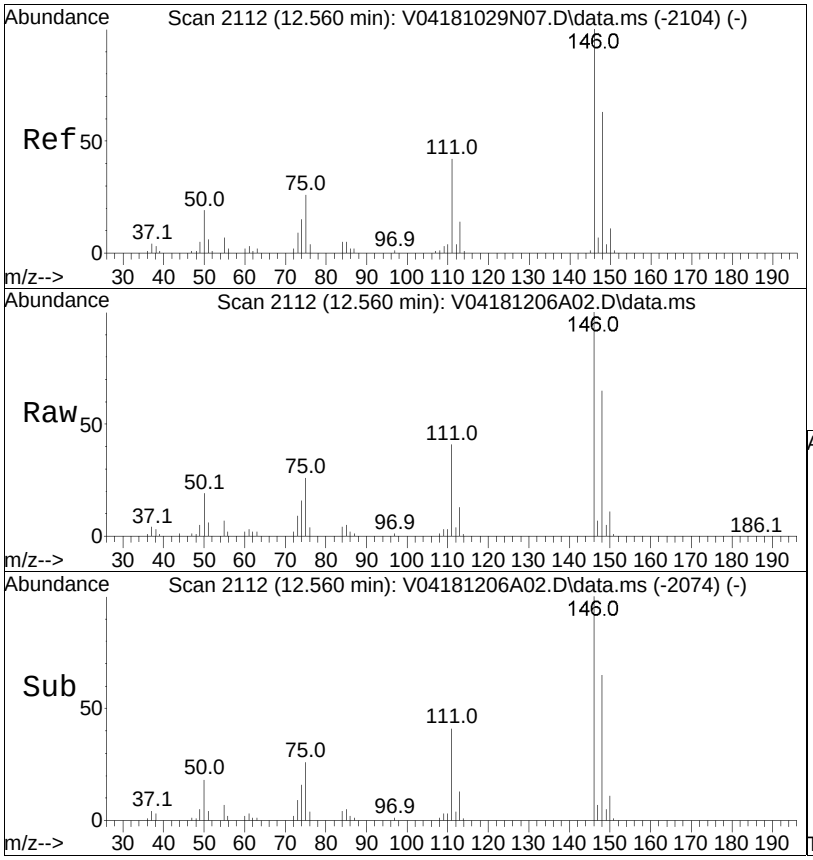


#101
1,4-Dichlorobenzene
Concen: 20.41 ug/L
RT: 12.130 min Scan# 2030
Delta R.T. -0.005 min
Lab File: V04181206A02.D
Acq: 6 Dec 2018 7:11 am

Tgt Ion:146 Resp: 86449

Ion	Ratio	Lower	Upper
146	100		
111	38.8	30.2	45.2
148	64.0	50.6	76.0

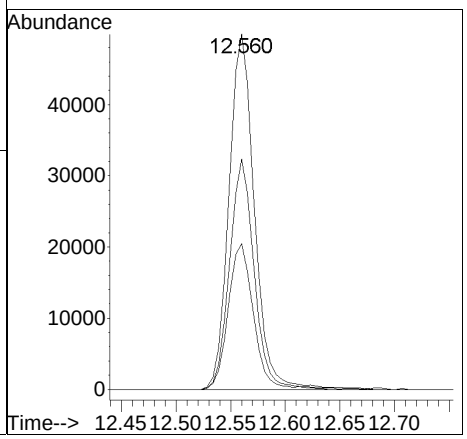


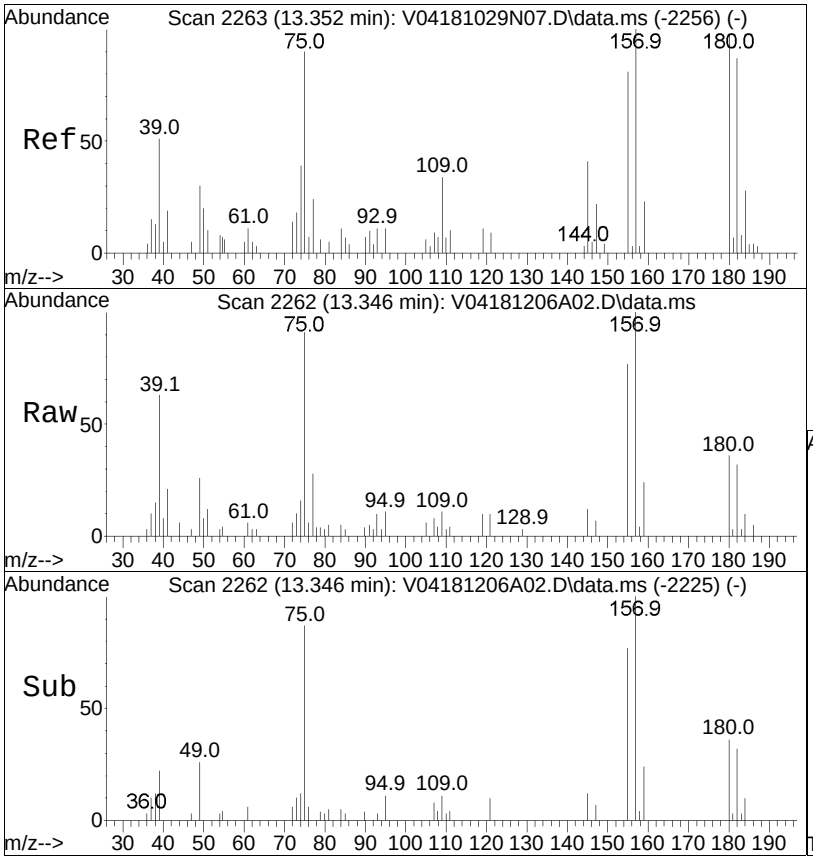


#104
1,2-Dichlorobenzene
Concen: 21.06 ug/L
RT: 12.560 min Scan# 2112
Delta R.T. 0.000 min
Lab File: V04181206A02.D
Acq: 6 Dec 2018 7:11 am

Tgt Ion:146 Resp: 80993

Ion	Ratio	Lower	Upper
146	100		
111	40.6	25.5	52.9
148	62.6	40.8	84.8

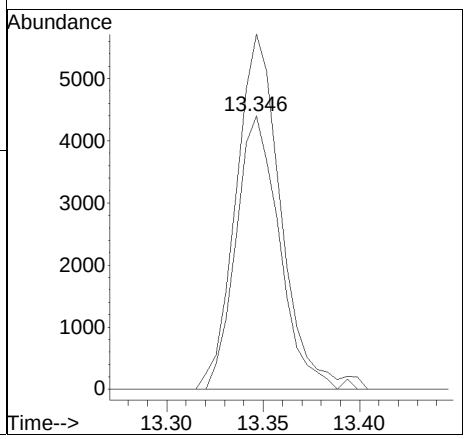


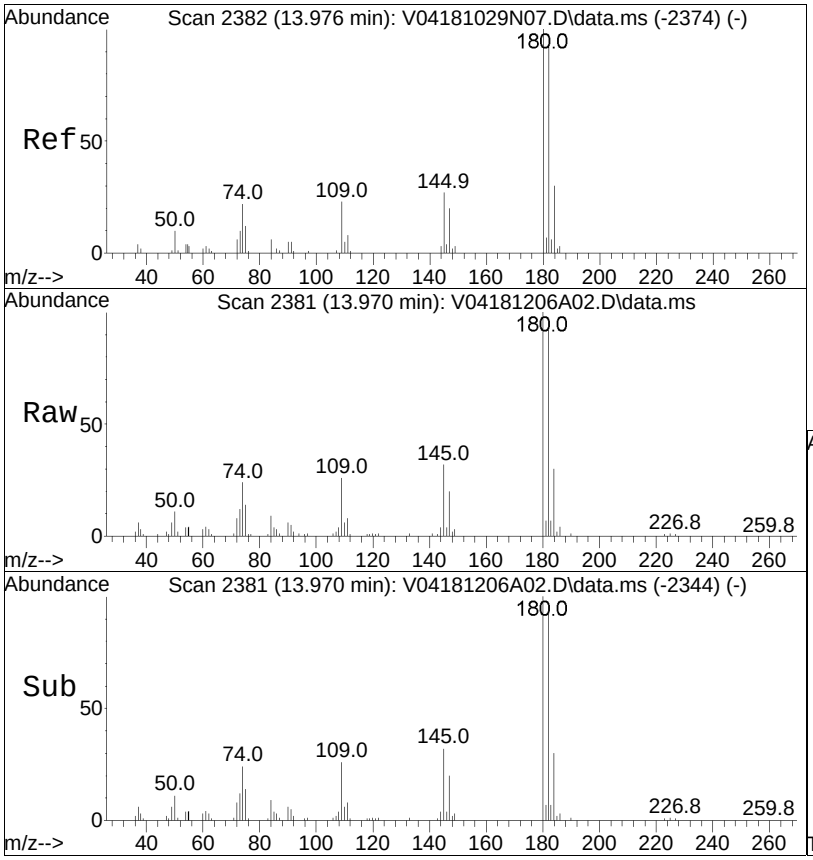


#106
1,2-Dibromo-3-chloropropane
Concen: 19.76 ug/L
RT: 13.346 min Scan# 2262
Delta R.T. -0.006 min
Lab File: V04181206A02.D
Acq: 6 Dec 2018 7:11 am

Tgt Ion:155 Resp: 6926

Ion	Ratio	Lower	Upper
155	100		
157	133.9	103.2	154.8

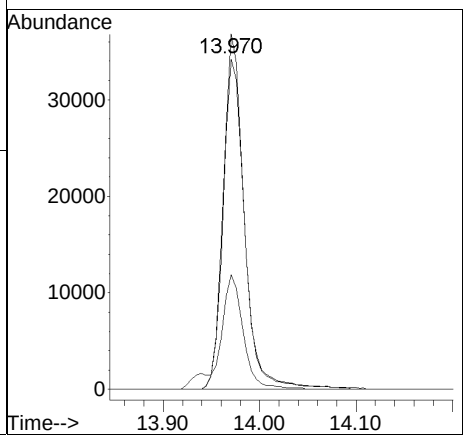


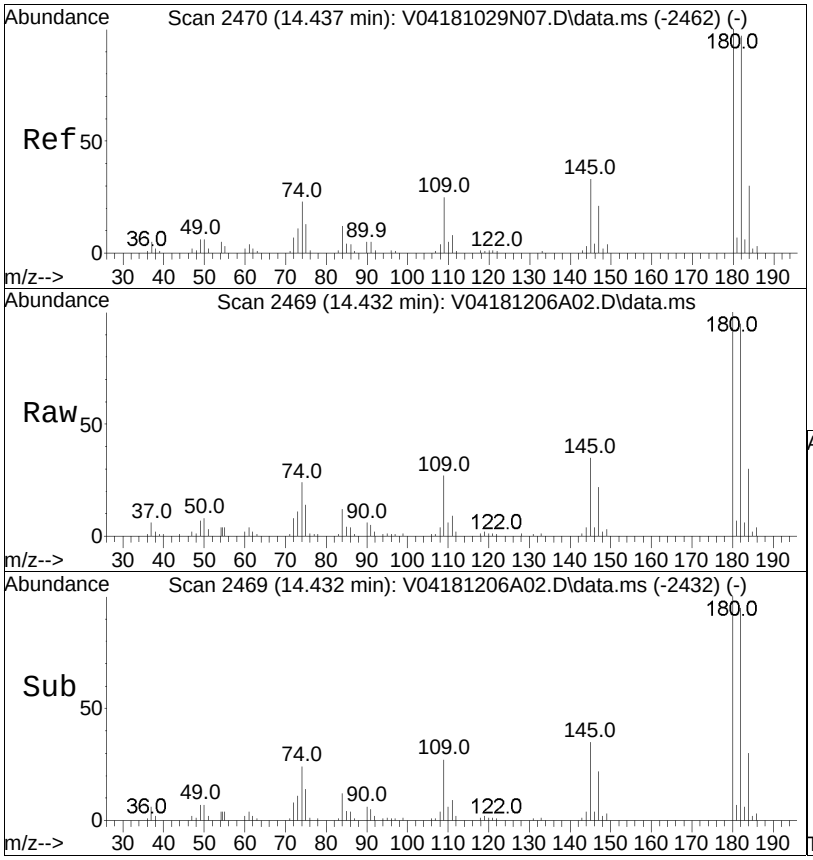


#109
1,2,4-Trichlorobenzene
Concen: 21.70 ug/L
RT: 13.970 min Scan# 2381
Delta R.T. -0.006 min
Lab File: V04181206A02.D
Acq: 6 Dec 2018 7:11 am

Tgt Ion:180 Resp: 56515

Ion	Ratio	Lower	Upper
180	100		
182	94.9	77.0	115.4
145	35.7	28.4	42.6

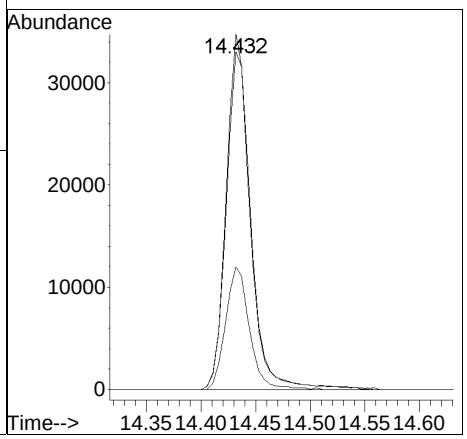




#111
1,2,3-Trichlorobenzene
Concen: 21.48 ug/L
RT: 14.432 min Scan# 2469
Delta R.T. -0.005 min
Lab File: V04181206A02.D
Acq: 6 Dec 2018 7:11 am

Tgt Ion:180 Resp: 53573

Ion	Ratio	Lower	Upper
180	100		
182	95.6	75.9	113.9
145	33.8	25.8	38.6



Manual Integration Report

Data Path	: I:\VOLATILES\VOA104\2018\1Q	Method	: V104_181029N_8260.m
Data File	: V04181206A02.D	Operator	: VOA104:MV
Date Inj'd	: 12/6/2018 7:11 am	Instrument	: VOA 104
Sample	: WG1186463-4,31,5,5	Quant Date	: 12/6/2018 10:07 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2018\181206N\
Data File : V11181206N02.D
Acq On : 06 Dec 2018 15:03
Operator : VOA111:MKS
Sample : WG1186672-4,31,5,5
Misc : WG1186672,ICAL15260
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 06 15:26:56 2018
Quant Method : I:\VOLATILES\VOA111\2018\181206N\V111_181115N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 19 17:40:28 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2018\181206N\V11181206N01.D
Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.549	96	81393	20.000	ug/L	0.00
Standard Area 1 = 82887			Recovery =	98.20%		
59) Chlorobenzene-d5	9.014	117	64291	20.000	ug/L	0.00
Standard Area 1 = 66465			Recovery =	96.73%		
79) 1,4-Dichlorobenzene-d4	11.825	152	33045	20.000	ug/L	0.00
Standard Area 1 = 34331			Recovery =	96.25%		
System Monitoring Compounds						
36) Dibromofluoromethane	4.767	113	22052	20.267	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	101.33%		
43) 1,2-Dichloroethane-d4	5.271	65	25725	19.170	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	95.85%		
60) Toluene-d8	7.200	98	80988	21.072	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	105.36%		
83) 4-Bromofluorobenzene	10.561	95	30535	19.913	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	99.56%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.522	85	14368	19.227	ug/L	96
3) Chloromethane	1.695	50	16254	15.680	ug/L	99
4) Vinyl chloride	1.742	62	13906	19.081	ug/L	95
5) Bromomethane	2.015	94	11612	18.166	ug/L	99
6) Chloroethane	2.114	64	9725	19.703	ug/L	99
7) Trichlorofluoromethane	2.235	101	31054	20.893	ug/L	99
10) 1,1-Dichloroethene	2.670	96	14732	19.989	ug/L	97
11) Carbon disulfide	2.696	76	40166	17.556	ug/L	100
12) Freon-113	2.707	101	15548	19.621	ug/L	92
15) Methylene chloride	3.174	84	17485	17.295	ug/L	82
17) Acetone	3.216	43	4242	14.613	ug/L	98
18) trans-1,2-Dichloroethene	3.315	96	18024	19.293	ug/L	95
19) Methyl acetate	3.326	43	10679	13.260	ug/L #	90
20) Methyl tert-butyl ether	3.404	73	51445	17.003	ug/L	88
23) 1,1-Dichloroethane	3.855	63	36979	17.951	ug/L	99
28) cis-1,2-Dichloroethene	4.348	96	20749	18.495	ug/L	93
30) Bromochloromethane	4.526	128	10046	18.314	ug/L #	73
31) Cyclohexane	4.532	56	30741	16.619	ug/L	84
32) Chloroform	4.600	83	38214	18.502	ug/L	96
34) Carbon tetrachloride	4.726	117	33137	21.443	ug/L	99

Data Path : I:\VOLATILES\VOA111\2018\181206N\
Data File : V11181206N02.D
Acq On : 06 Dec 2018 15:03
Operator : VOA111:MKS
Sample : WG1186672-4,31,5,5
Misc : WG1186672,ICAL15260
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 06 15:26:56 2018
Quant Method : I:\VOLATILES\VOA111\2018\181206N\V111_181115N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 19 17:40:28 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2018\181206N\V11181206N01.D
Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) 1,1,1-Trichloroethane	4.788	97	37616	20.428	ug/L		95
39) 2-Butanone	4.878	43	6602	13.649	ug/L	#	83
41) Benzene	5.140	78	70015	18.062	ug/L		96
44) 1,2-Dichloroethane	5.334	62	31835	16.928	ug/L		98
47) Methyl cyclohexane	5.711	83	28694	19.448	ug/L		88
48) Trichloroethene	5.722	95	20374	18.859	ug/L		97
51) 1,2-Dichloropropane	6.246	63	18679	16.308	ug/L	#	89
54) Bromodichloromethane	6.319	83	30487	18.394	ug/L		99
57) 1,4-Dioxane	6.524	88	8499	817.294	ug/L	#	81
58) cis-1,3-Dichloropropene	7.001	75	30569	17.301	ug/L		95
61) Toluene	7.258	92	47957	19.614	ug/L		100
62) 4-Methyl-2-pentanone	7.693	58	5613	14.201	ug/L	#	80
63) Tetrachloroethene	7.698	166	22884	22.532	ug/L		98
65) trans-1,3-Dichloropropene	7.740	75	29297	18.628	ug/L		86
68) 1,1,2-Trichloroethane	7.913	83	11926	17.509	ug/L		93
69) Chlorodibromomethane	8.123	129	22602	19.171	ug/L		99
71) 1,2-Dibromoethane	8.385	107	15693	18.321	ug/L		99
72) 2-Hexanone	8.695	43	9176	13.045	ug/L	#	83
73) Chlorobenzene	9.035	112	57012	19.168	ug/L		99
74) Ethylbenzene	9.083	91	96039	19.956	ug/L		98
76) p/m Xylene	9.271	106	76522	40.189	ug/L		98
77) o Xylene	9.811	106	75939	39.887	ug/L		99
78) Styrene	9.885	104	121921	38.535	ug/L		97
80) Bromoform	9.895	173	13325	20.170	ug/L		99
82) Isopropylbenzene	10.226	105	98759	21.392	ug/L		100
87) 1,1,2,2-Tetrachloroethane	10.828	83	17791	17.954	ug/L		97
100) 1,3-Dichlorobenzene	11.746	146	49773	20.664	ug/L		99
101) 1,4-Dichlorobenzene	11.840	146	51535	20.759	ug/L		100
104) 1,2-Dichlorobenzene	12.276	146	46165	20.368	ug/L		99
106) 1,2-Dibromo-3-chloropr...	13.078	155	2860	15.804	ug/L		88
109) 1,2,4-Trichlorobenzene	13.717	180	31872	20.485	ug/L		99
111) 1,2,3-Trichlorobenzene	14.184	180	28336	19.222	ug/L		98

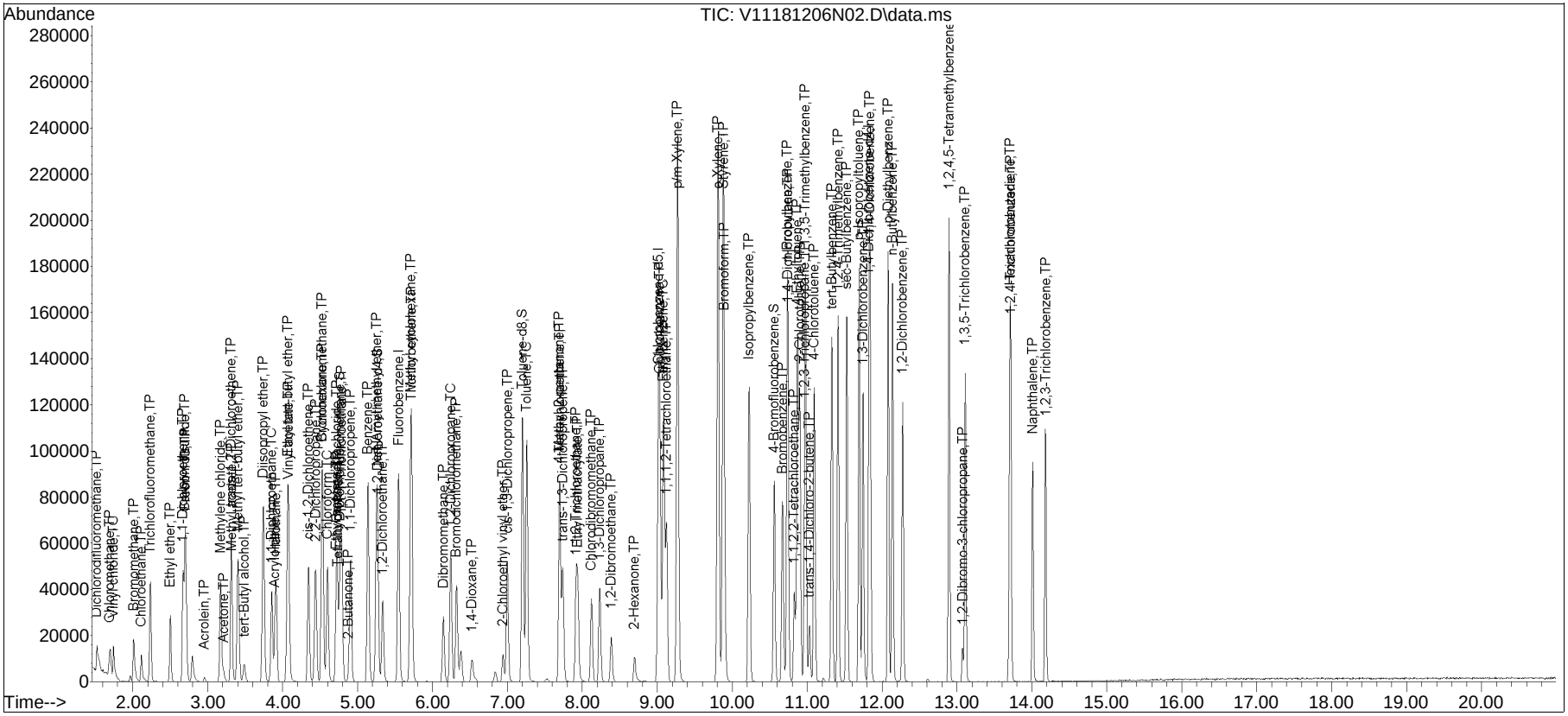
(#) = qualifier out of range (m) = manual integration (+) = signals summed

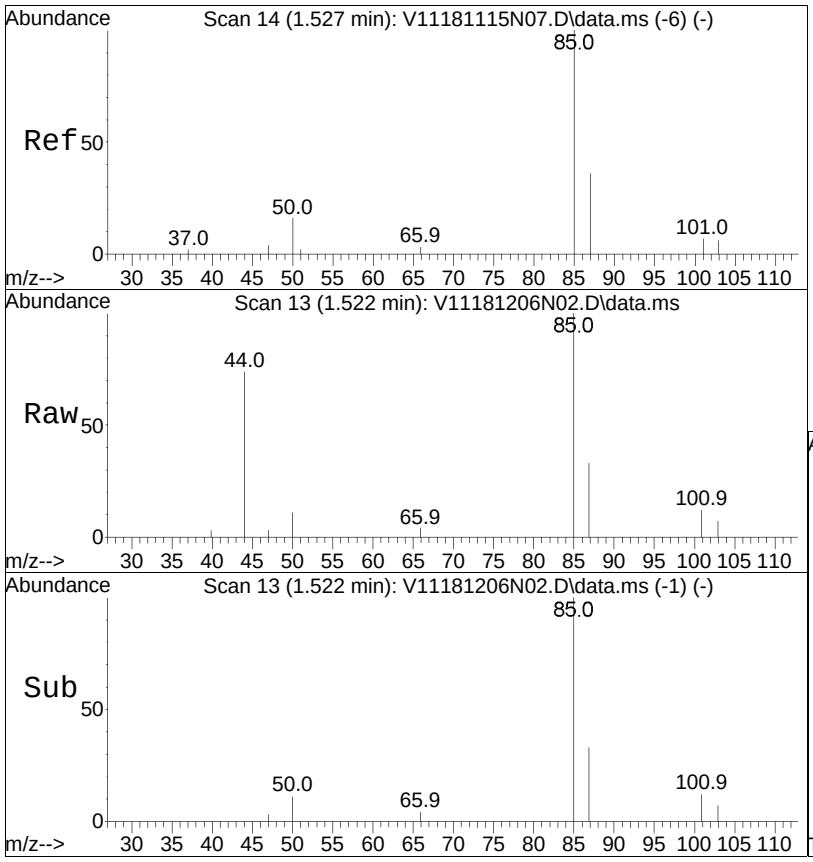
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2018\181206N\
Data File : V11181206N02.D
Acq On : 06 Dec 2018 15:03
Operator : VOA111:MKS
Sample : WG1186672-4,31,5,5
Misc : WG1186672,ICAL15260
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 06 15:26:56 2018
Quant Method : I:\VOLATILES\VOA111\2018\181206N\V111_181115N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 19 17:40:28 2018
Response via : Initial Calibration

Sub List : 8260-CurveSoil - Megamix plus Diox6N\V11181206N01.D•

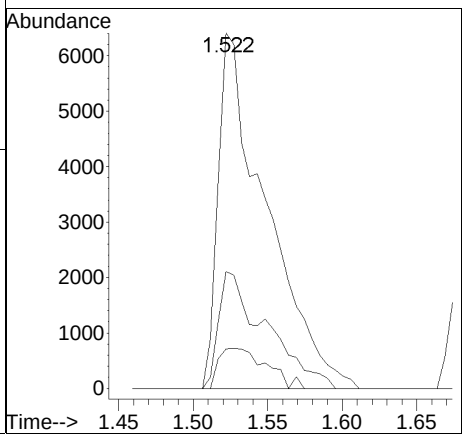


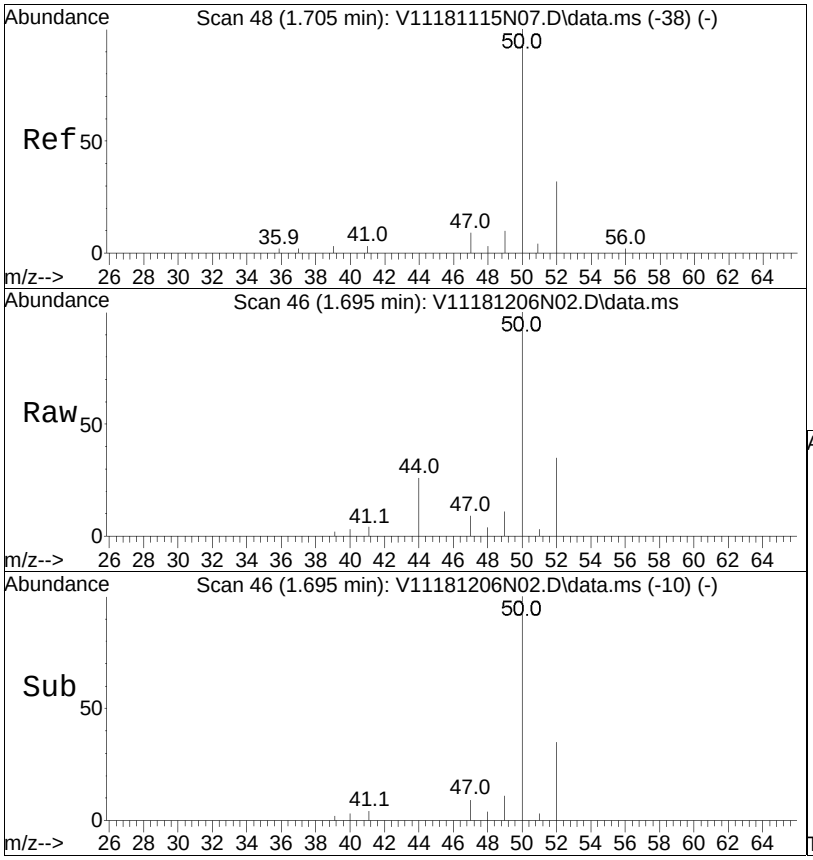


#2
Dichlorodifluoromethane
Concen: 19.23 ug/L
RT: 1.522 min Scan# 13
Delta R.T. -0.005 min
Lab File: V11181206N02.D
Acq: 06 Dec 2018 15:03

Tgt Ion: 85 Resp: 14368

Ion	Ratio	Lower	Upper
85	100		
87	32.6	20.7	43.1
50	11.2	9.8	20.3

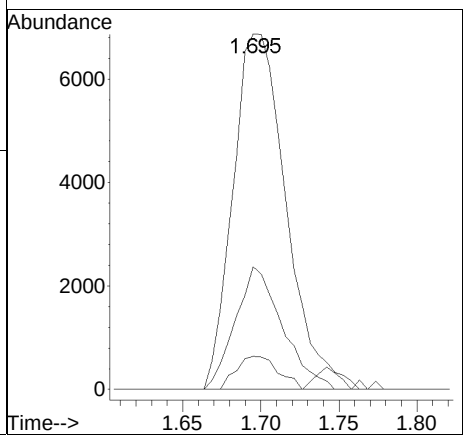


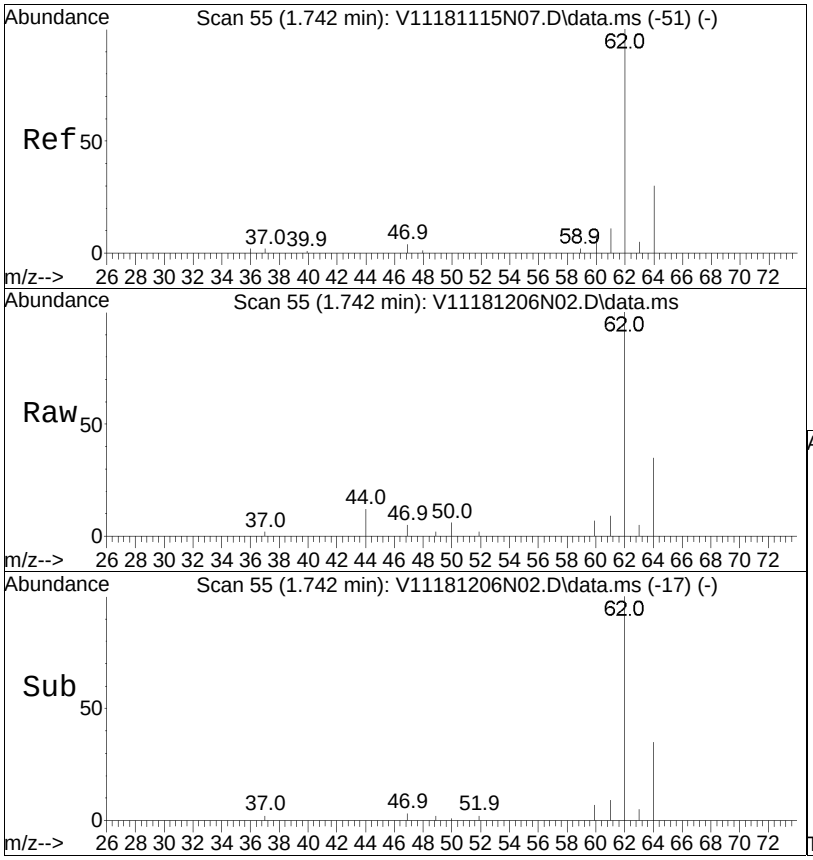


#3
Chloromethane
Concen: 15.68 ug/L
RT: 1.695 min Scan# 46
Delta R.T. -0.010 min
Lab File: V11181206N02.D
Acq: 06 Dec 2018 15:03

Tgt Ion: 50 Resp: 16254

Ion	Ratio	Lower	Upper
50	100		
52	30.6	10.9	50.9
47	7.4	0.0	27.2

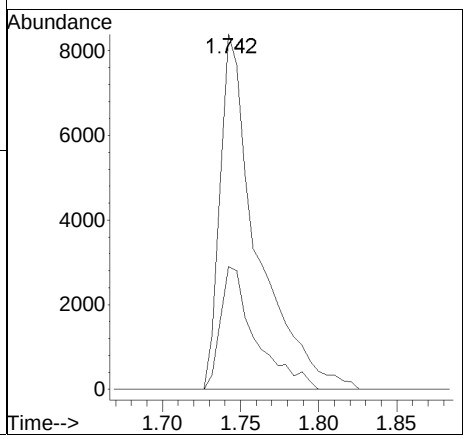


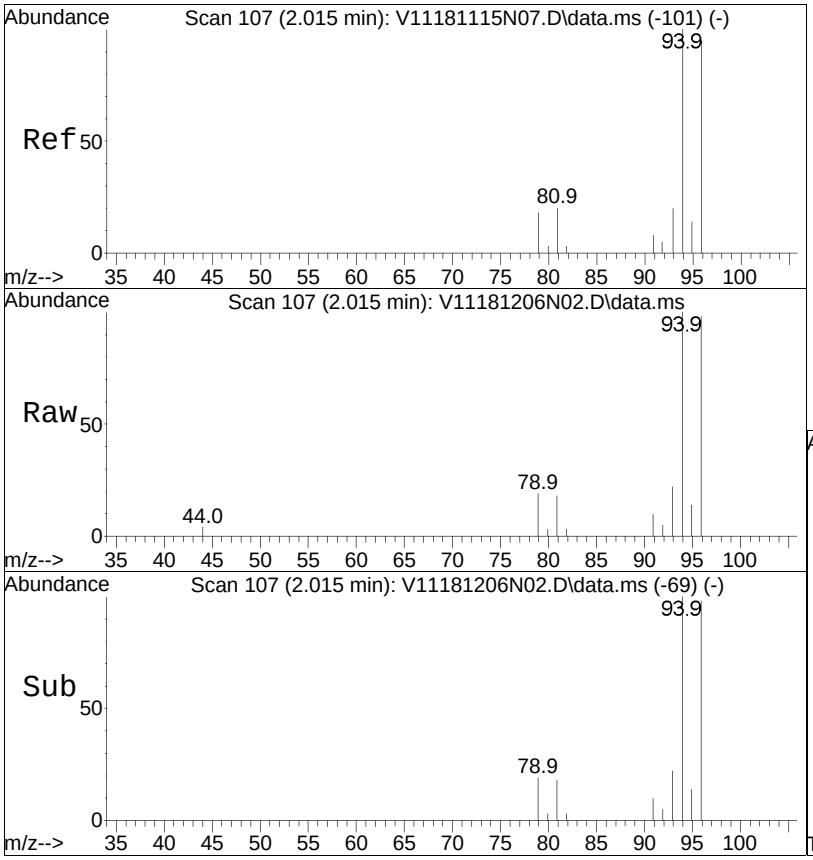


#4
Vinyl chloride
Concen: 19.08 ug/L
RT: 1.742 min Scan# 55
Delta R.T. 0.000 min
Lab File: V11181206N02.D
Acq: 06 Dec 2018 15:03

Tgt Ion: 62 Resp: 13906

Ion	Ratio	Lower	Upper
62	100		
64	32.7	9.9	49.9

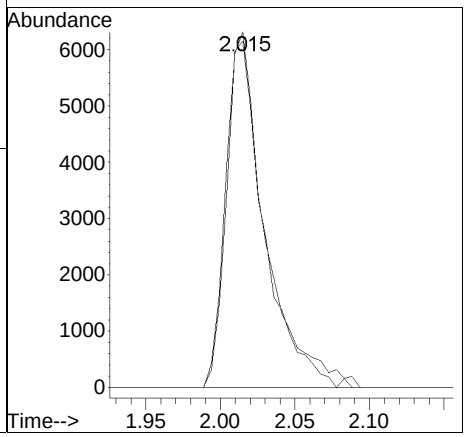


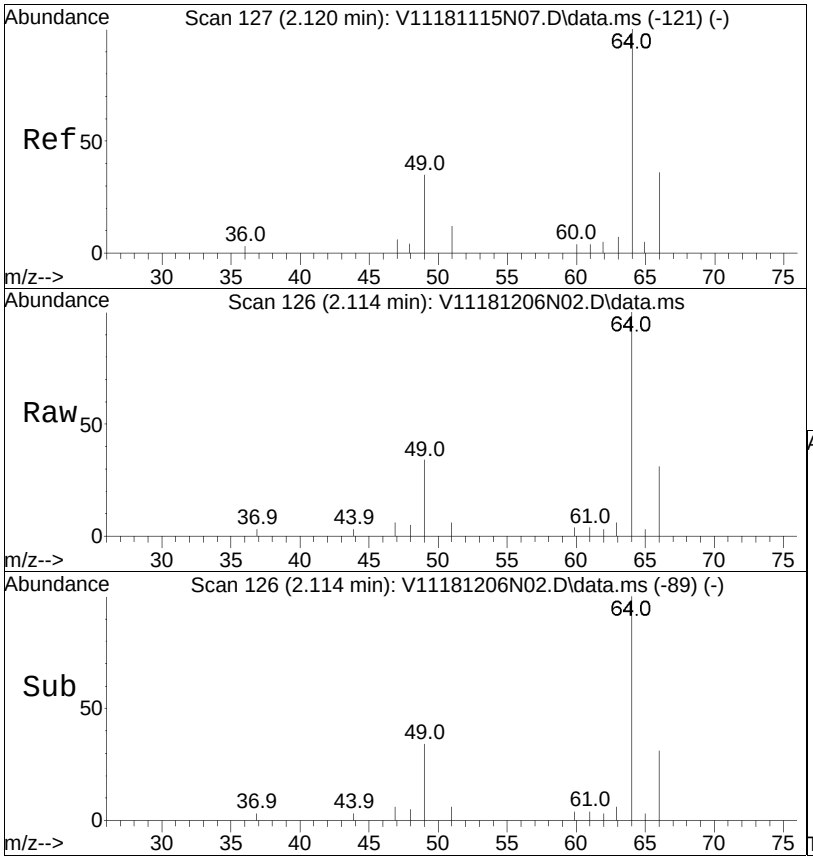


#5
Bromomethane
Concen: 18.17 ug/L
RT: 2.015 min Scan# 107
Delta R.T. -0.000 min
Lab File: V11181206N02.D
Acq: 06 Dec 2018 15:03

Tgt Ion: 94 Resp: 11612

Ion	Ratio	Lower	Upper
94	100		
96	93.5	72.6	112.6

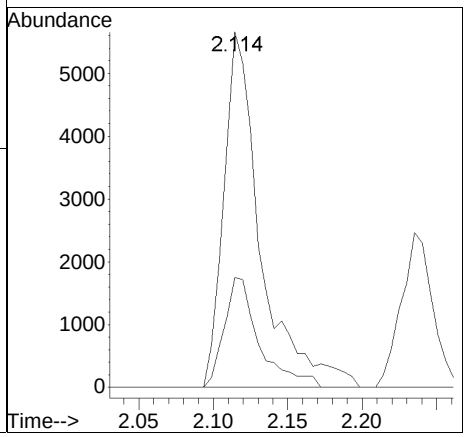


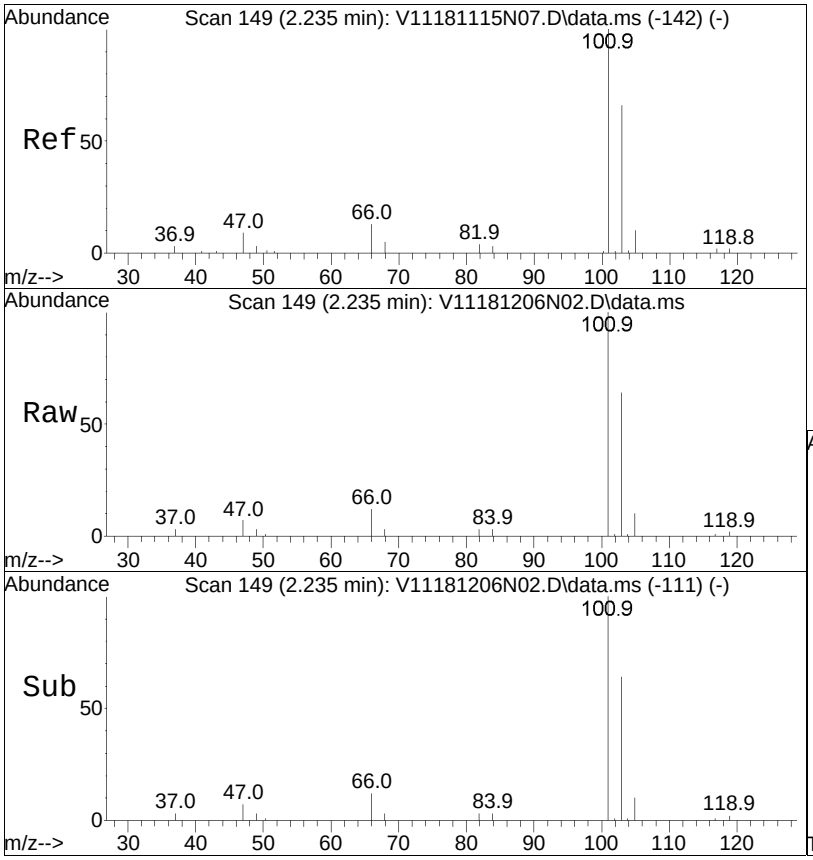


#6
Chloroethane
Concen: 19.70 ug/L
RT: 2.114 min Scan# 126
Delta R.T. -0.006 min
Lab File: V11181206N02.D
Acq: 06 Dec 2018 15:03

Tgt Ion: 64 Resp: 9725

Ion	Ratio	Lower	Upper
64	100		
66	29.4	10.2	50.2

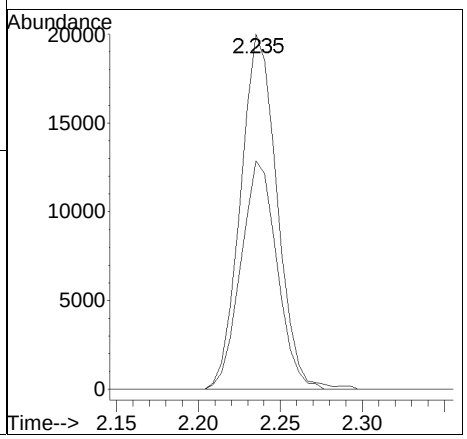


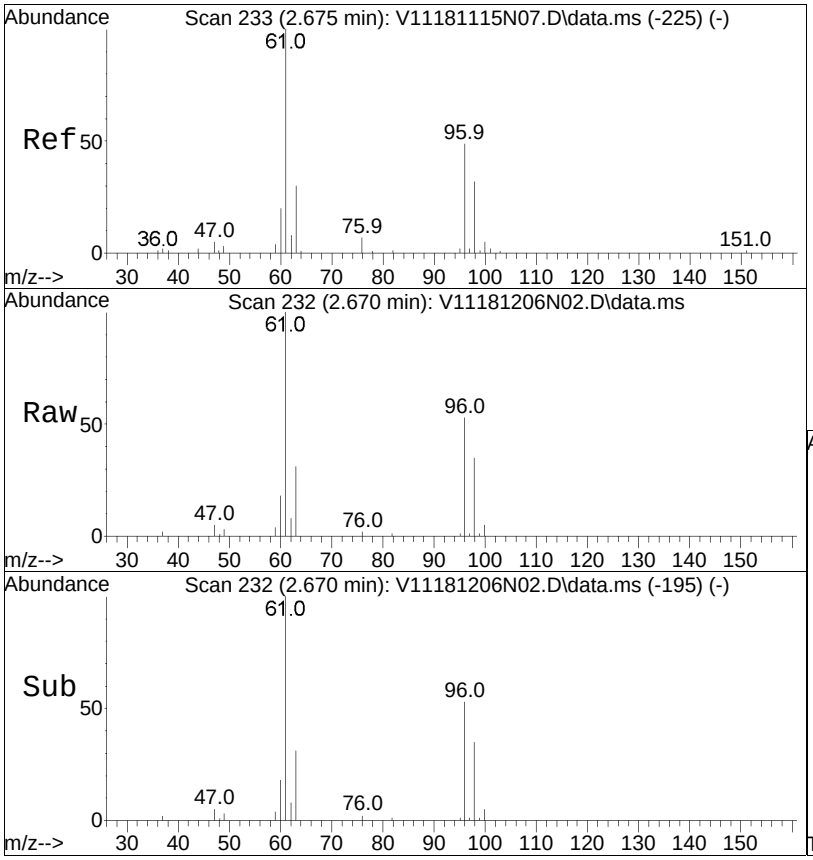


#7
Trichlorofluoromethane
Concen: 20.89 ug/L
RT: 2.235 min Scan# 149
Delta R.T. 0.000 min
Lab File: V11181206N02.D
Acq: 06 Dec 2018 15:03

Tgt Ion:101 Resp: 31054

Ion	Ratio	Lower	Upper
101	100		
103	63.8	51.8	77.6

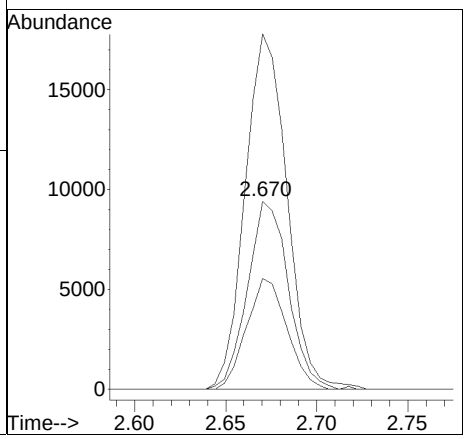


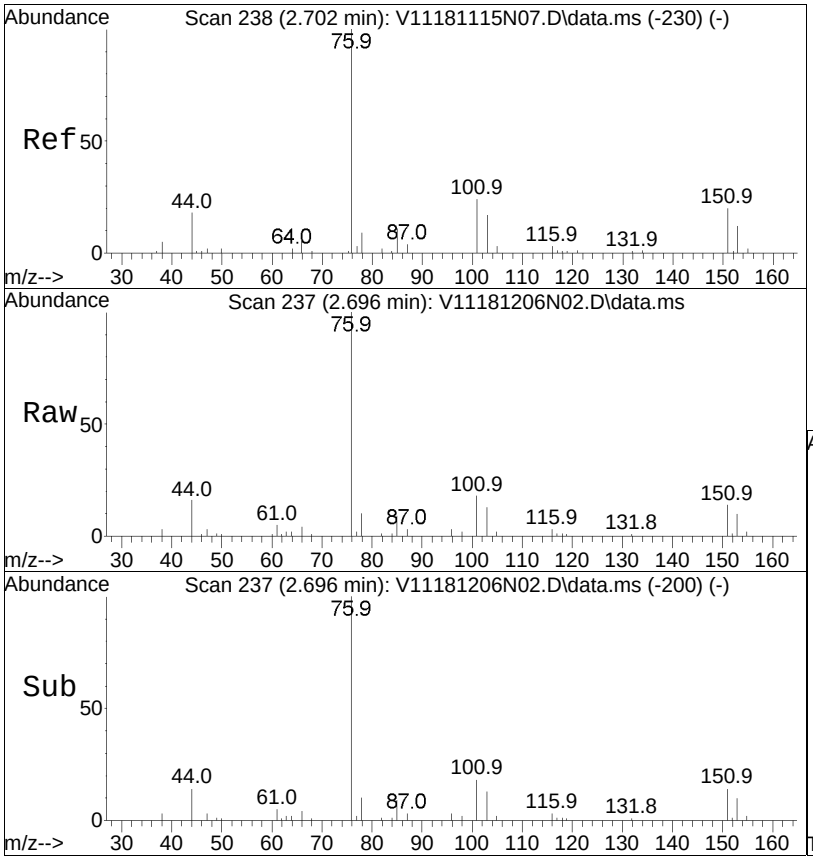


#10
1,1-Dichloroethene
Concen: 19.99 ug/L
RT: 2.670 min Scan# 232
Delta R.T. -0.005 min
Lab File: V11181206N02.D
Acq: 06 Dec 2018 15:03

Tgt Ion: 96 Resp: 14732

Ion	Ratio	Lower	Upper
96	100		
61	192.9	157.7	236.5
63	58.2	47.9	71.9

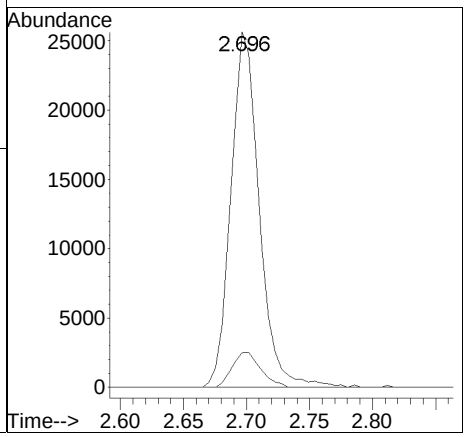


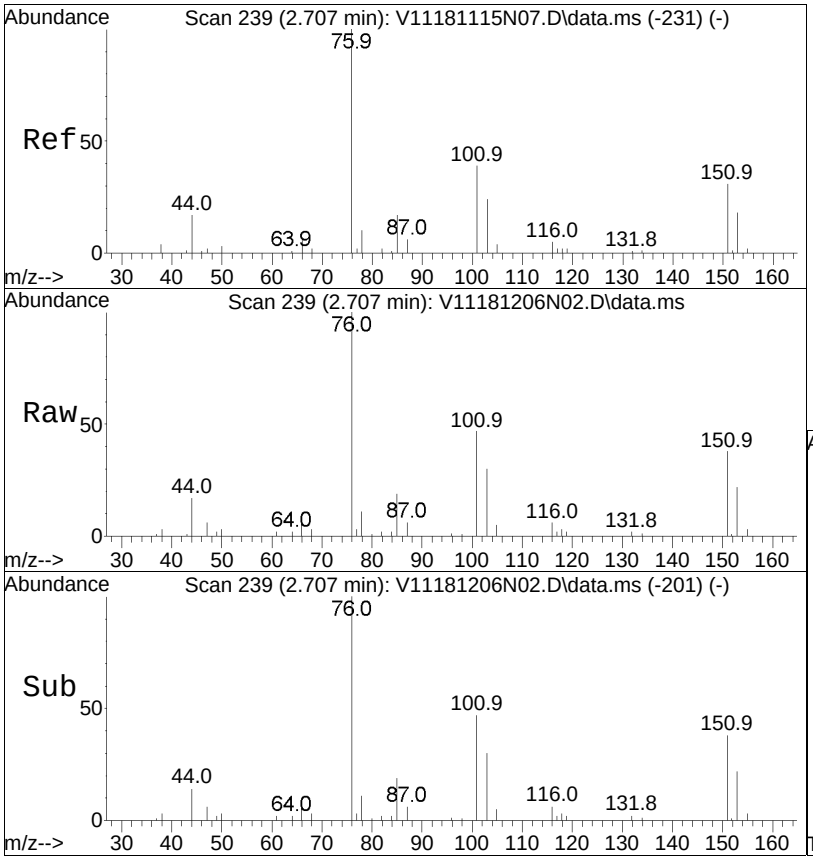


#11
Carbon disulfide
Concen: 17.56 ug/L
RT: 2.696 min Scan# 237
Delta R.T. -0.006 min
Lab File: V11181206N02.D
Acq: 06 Dec 2018 15:03

Tgt Ion: 76 Resp: 40166

Ion	Ratio	Lower	Upper
76	100		
78	10.0	6.4	13.4

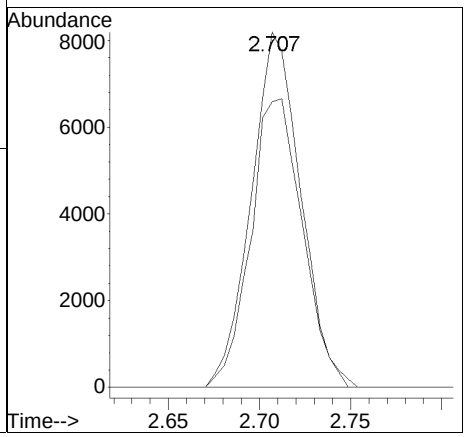


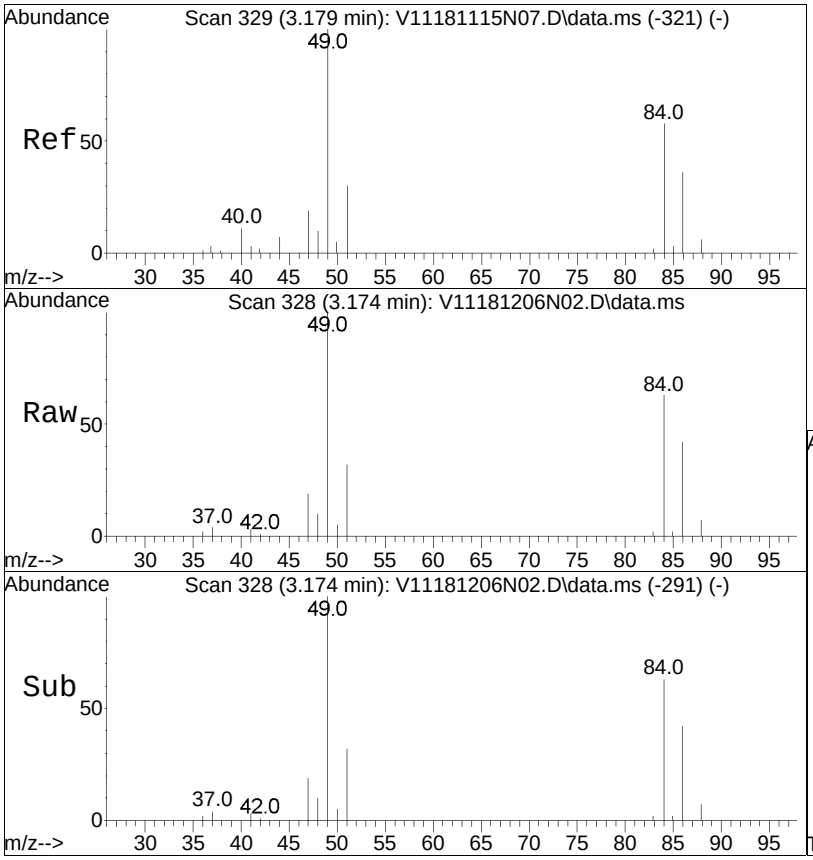


#12
Freon-113
Concen: 19.62 ug/L
RT: 2.707 min Scan# 239
Delta R.T. -0.000 min
Lab File: V11181206N02.D
Acq: 06 Dec 2018 15:03

Tgt Ion:101 Resp: 15548

Ion	Ratio	Lower	Upper
101	100		
151	84.6	62.2	93.4

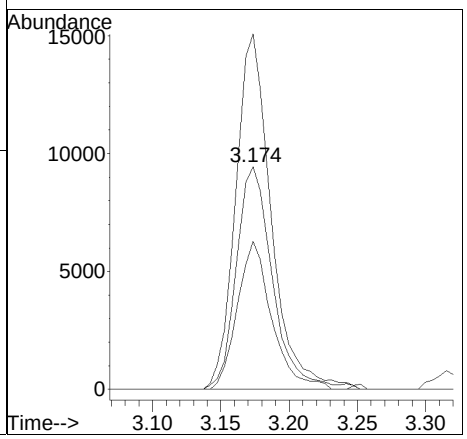


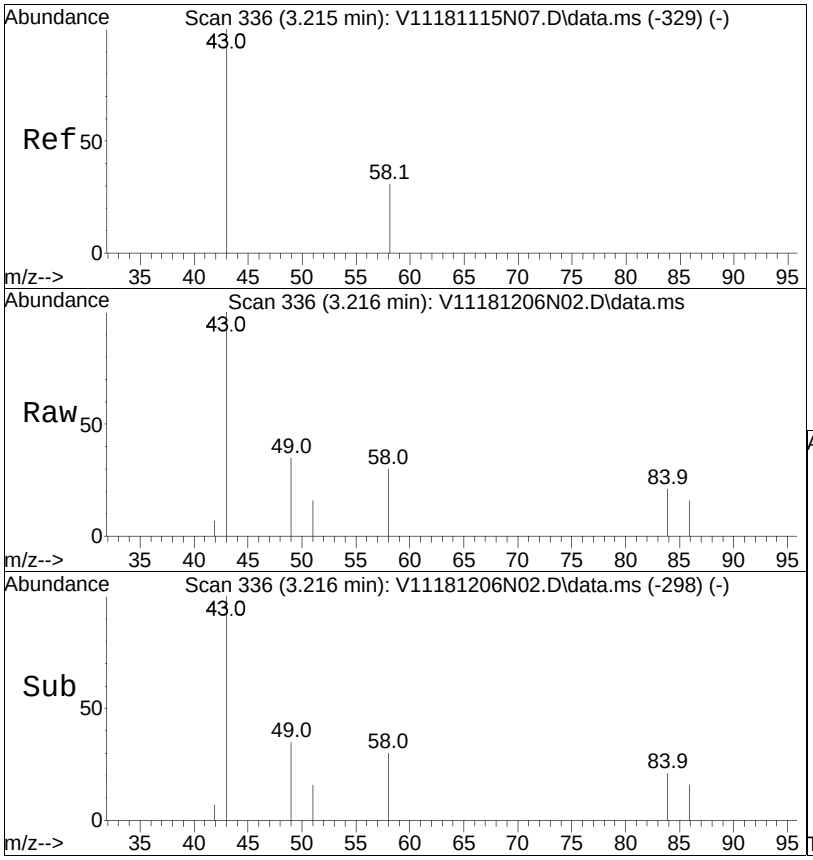


#15
Methylene chloride
Concen: 17.30 ug/L
RT: 3.174 min Scan# 328
Delta R.T. -0.005 min
Lab File: V11181206N02.D
Acq: 06 Dec 2018 15:03

Tgt Ion: 84 Resp: 17485

Ion	Ratio	Lower	Upper
84	100		
86	63.2	41.1	85.3
49	156.6	124.2	258.0

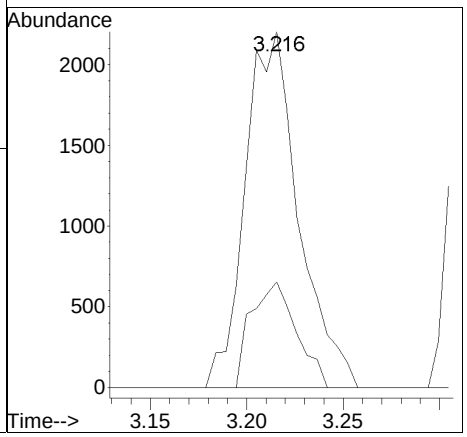


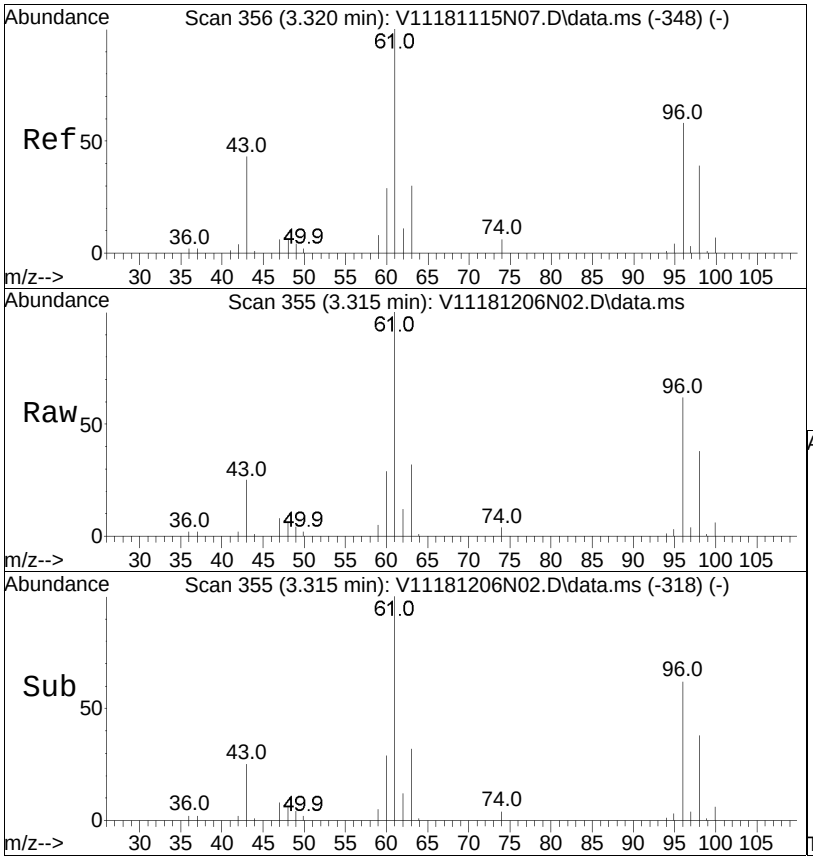


#17
Acetone
Concen: 14.61 ug/L
RT: 3.216 min Scan# 336
Delta R.T. 0.001 min
Lab File: V11181206N02.D
Acq: 06 Dec 2018 15:03

Tgt Ion: 43 Resp: 4242

Ion	Ratio	Lower	Upper
43	100		
58	25.1	20.8	31.2

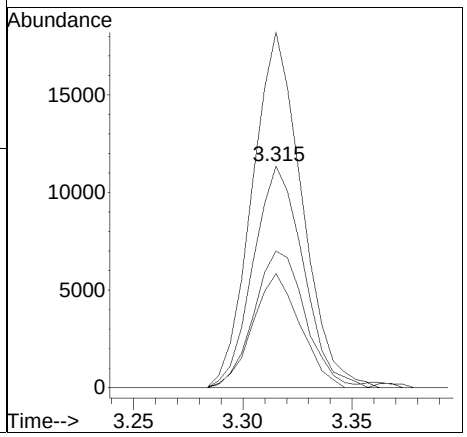


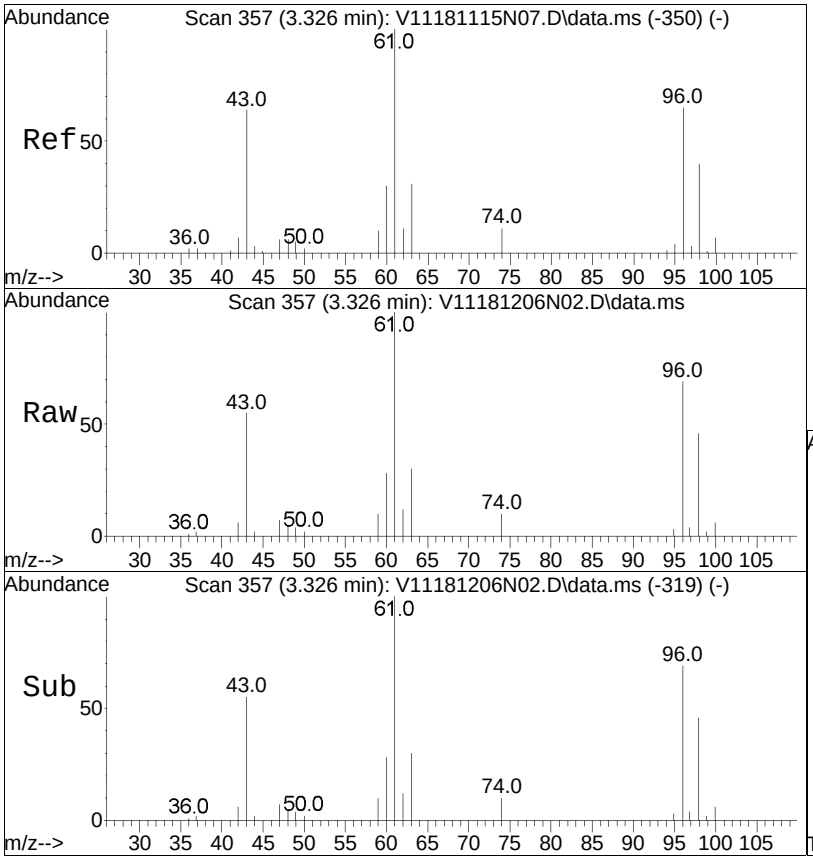


#18
trans-1,2-Dichloroethene
Concen: 19.29 ug/L
RT: 3.315 min Scan# 355
Delta R.T. -0.005 min
Lab File: V11181206N02.D
Acq: 06 Dec 2018 15:03

Tgt Ion: 96 Resp: 18024

Ion	Ratio	Lower	Upper
96	100		
61	160.7	111.1	230.8
98	63.3	41.8	86.8
63	48.8	33.3	69.1

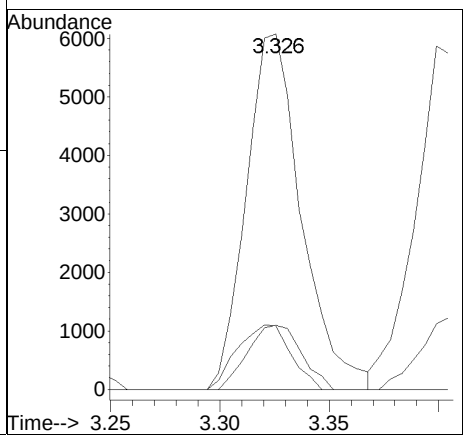


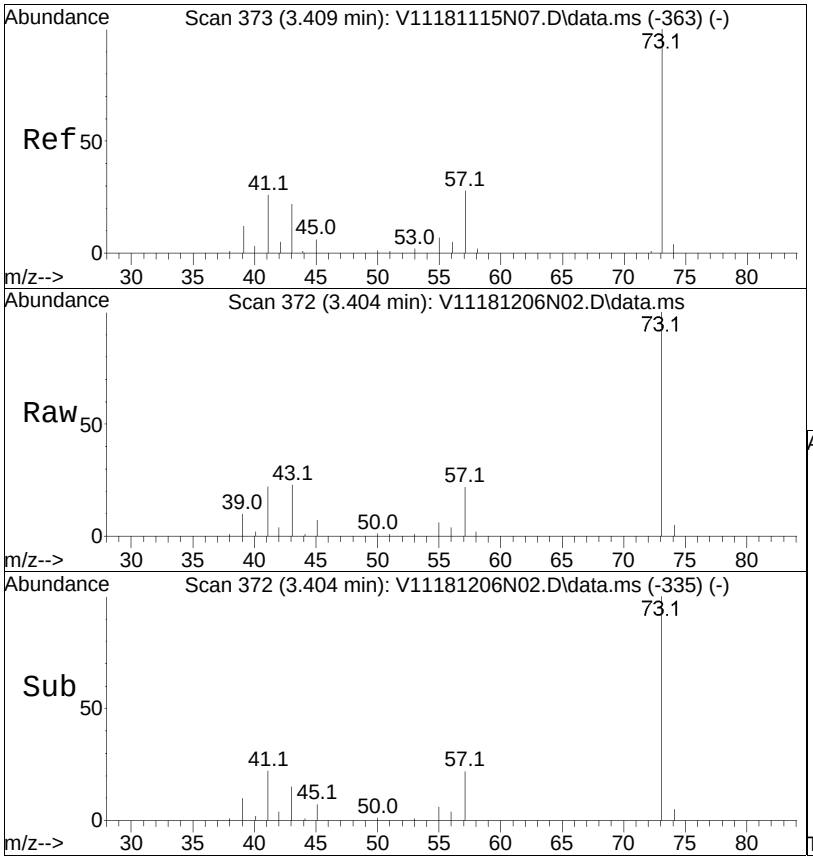


#19
Methyl acetate
Concen: 13.26 ug/L
RT: 3.326 min Scan# 357
Delta R.T. -0.000 min
Lab File: V11181206N02.D
Acq: 06 Dec 2018 15:03

Tgt Ion: 43 Resp: 10679

Ion	Ratio	Lower	Upper
43	100		
74	17.5	11.3	16.9#
59	17.5	10.4	15.6#

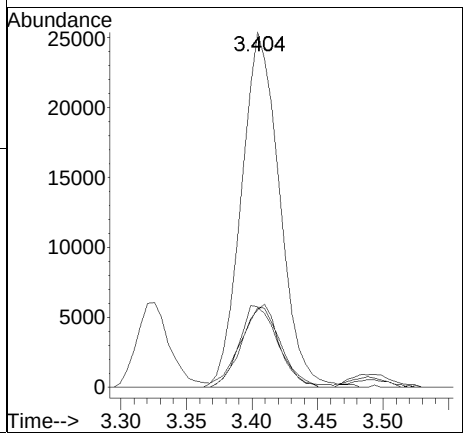


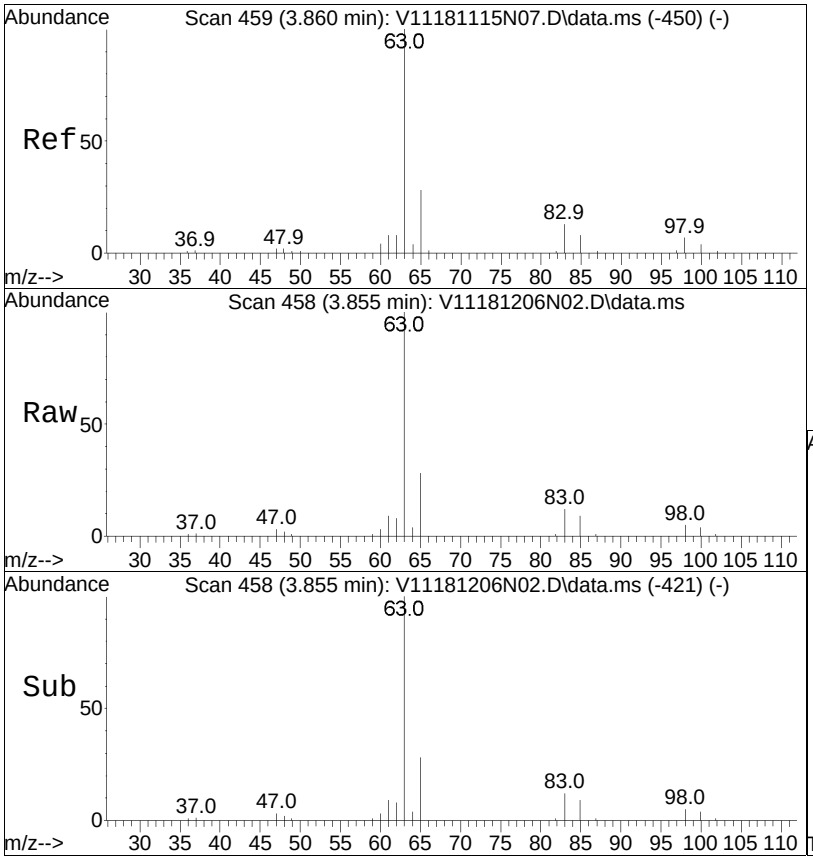


#20
Methyl tert-butyl ether
Concen: 17.00 ug/L
RT: 3.404 min Scan# 372
Delta R.T. -0.005 min
Lab File: V11181206N02.D
Acq: 06 Dec 2018 15:03

Tgt Ion: 73 Resp: 51445

Ion	Ratio	Lower	Upper
73	100		
57	23.2	19.6	40.6
43	25.3	18.5	38.3
41	22.1	20.3	42.1

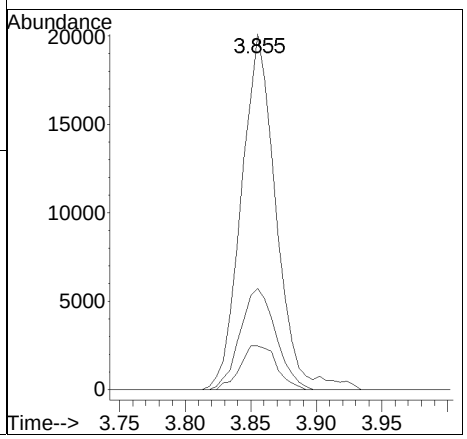


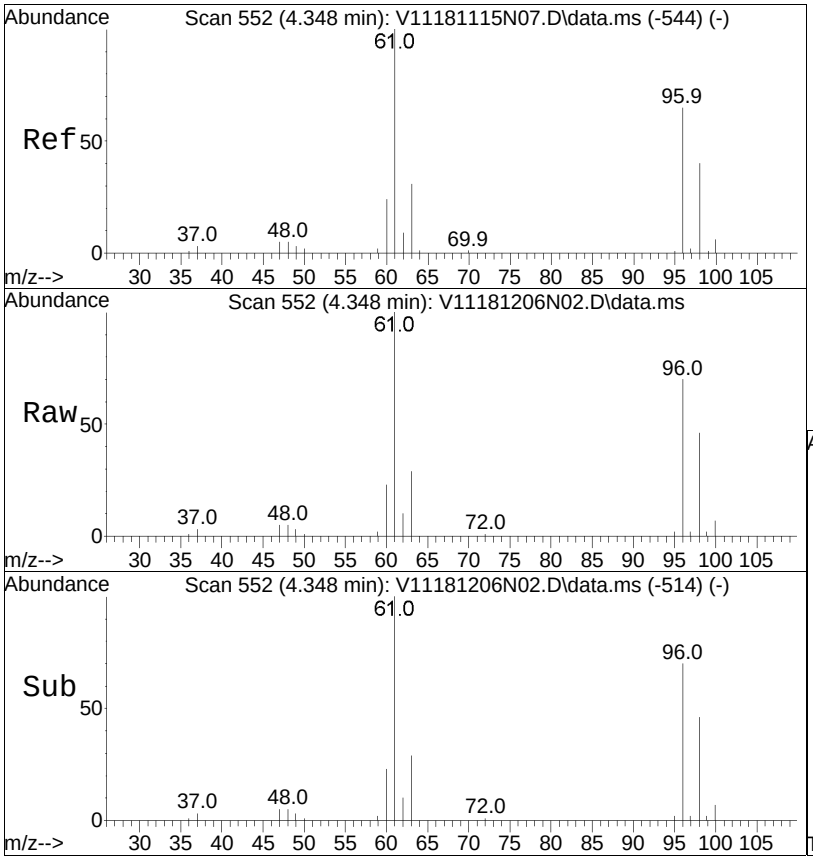


#23
1,1-Dichloroethane
Concen: 17.95 ug/L
RT: 3.855 min Scan# 458
Delta R.T. -0.005 min
Lab File: V11181206N02.D
Acq: 06 Dec 2018 15:03

Tgt Ion: 63 Resp: 36979

Ion	Ratio	Lower	Upper
63	100		
65	29.3	9.0	49.0
83	12.9	0.0	31.4

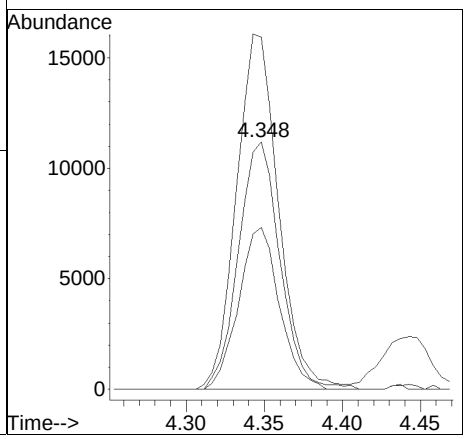


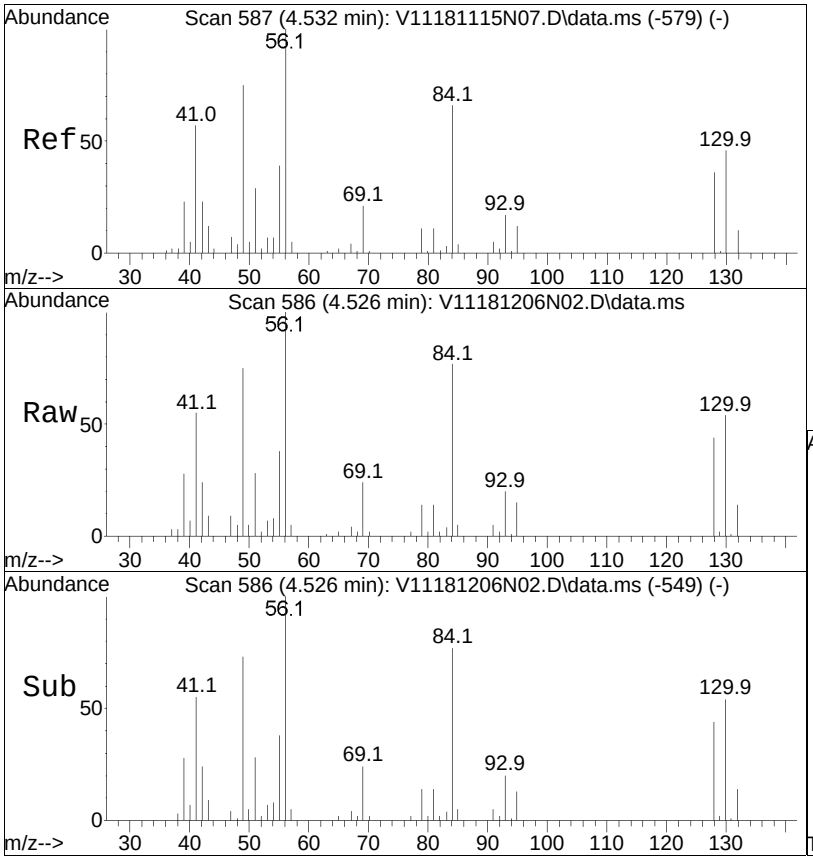


#28
cis-1,2-Dichloroethene
Concen: 18.49 ug/L
RT: 4.348 min Scan# 552
Delta R.T. 0.000 min
Lab File: V11181206N02.D
Acq: 06 Dec 2018 15:03

Tgt Ion: 96 Resp: 20749

Ion	Ratio	Lower	Upper
96	100		
61	145.0	126.3	189.5
98	64.3	51.0	76.6

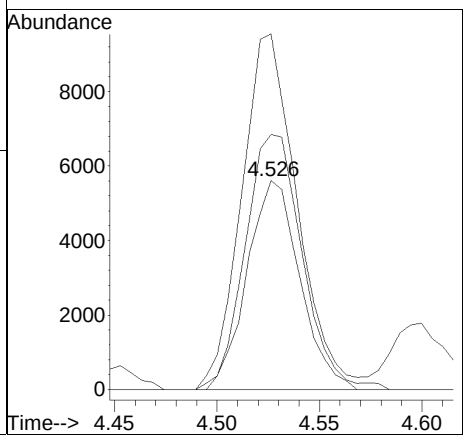


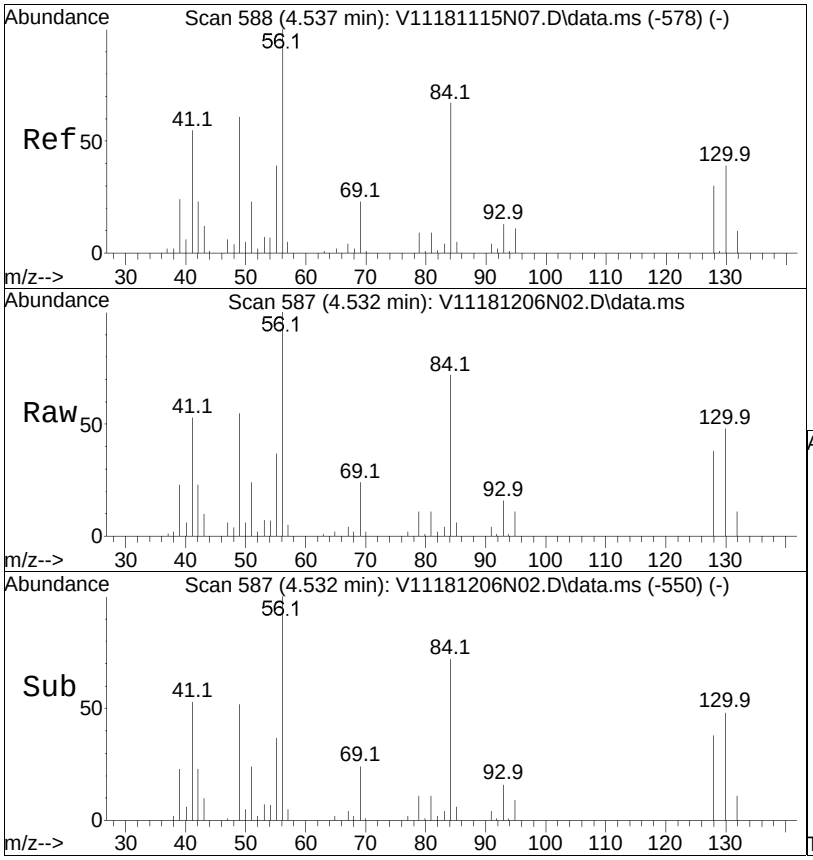


#30
Bromochloromethane
Concen: 18.31 ug/L
RT: 4.526 min Scan# 586
Delta R.T. -0.006 min
Lab File: V11181206N02.D
Acq: 06 Dec 2018 15:03

Tgt Ion:128 Resp: 10046

Ion	Ratio	Lower	Upper
128	100		
49	178.5	201.3	301.9#
130	132.2	106.2	159.2

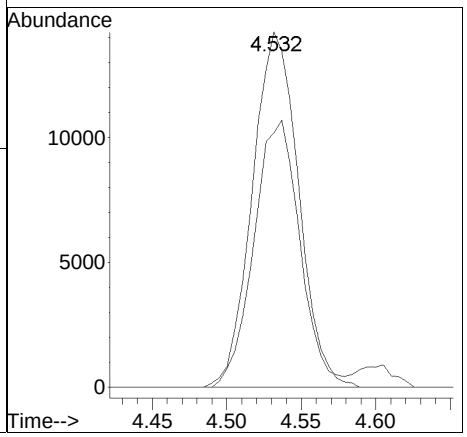


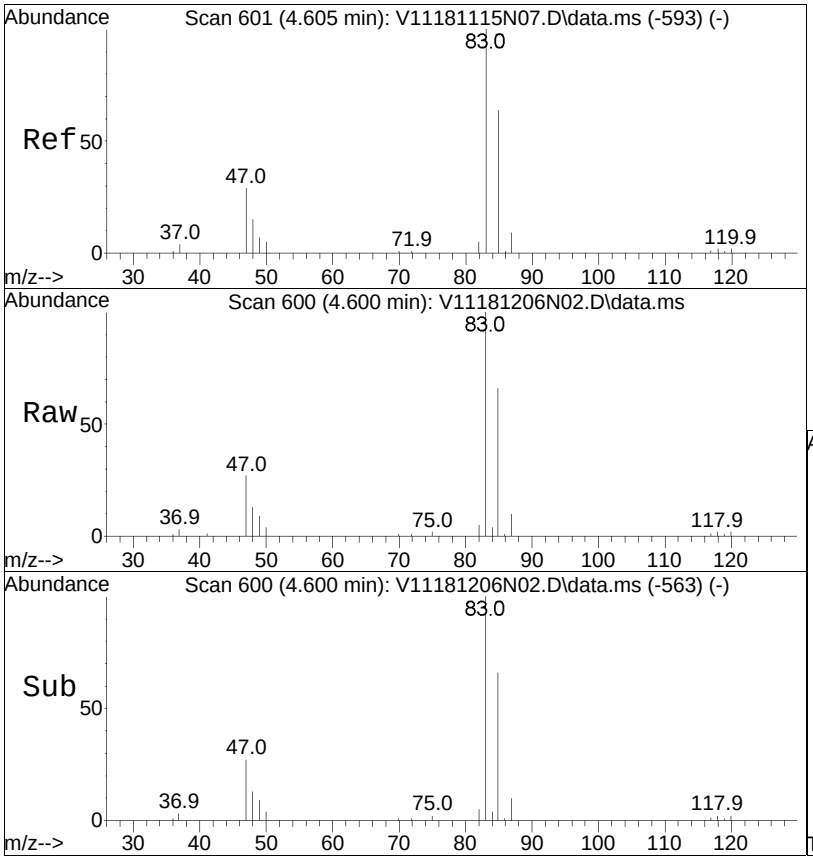


#31
Cyclohexane
Concen: 16.62 ug/L
RT: 4.532 min Scan# 587
Delta R.T. -0.005 min
Lab File: V11181206N02.D
Acq: 06 Dec 2018 15:03

Tgt Ion: 56 Resp: 30741

Ion	Ratio	Lower	Upper
56	100		
84	74.9	40.5	84.1

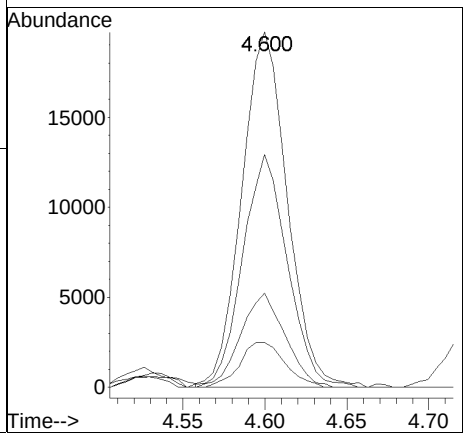


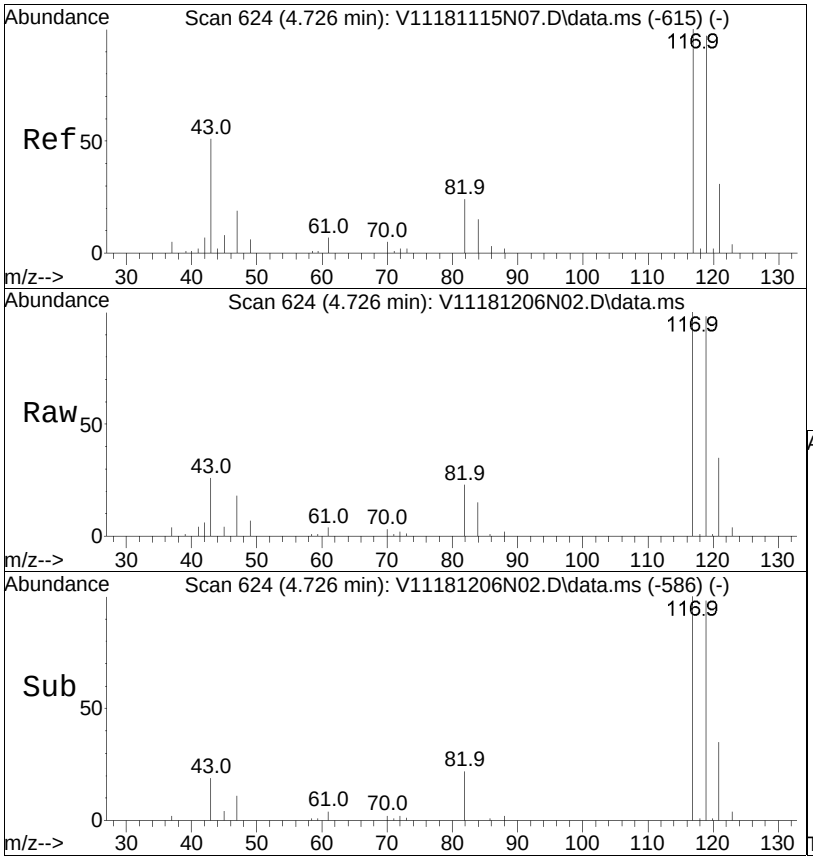


#32
Chloroform
Concen: 18.50 ug/L
RT: 4.600 min Scan# 600
Delta R.T. -0.005 min
Lab File: V11181206N02.D
Acq: 06 Dec 2018 15:03

Tgt Ion: 83 Resp: 38214

Ion	Ratio	Lower	Upper
83	100		
85	64.6	41.9	87.1
47	25.9	20.9	43.3
48	12.7	9.9	20.5

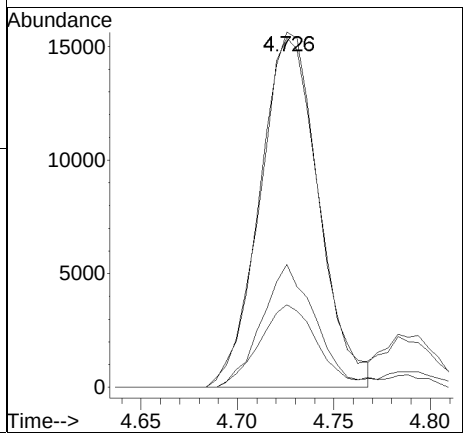


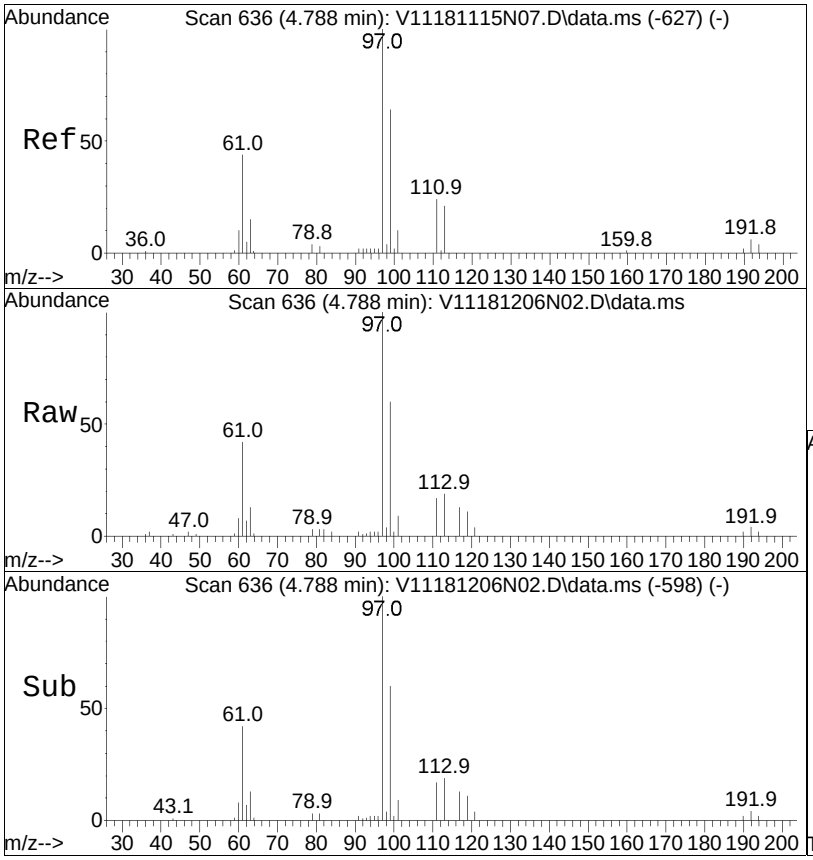


#34
Carbon tetrachloride
Concen: 21.44 ug/L
RT: 4.726 min Scan# 624
Delta R.T. -0.000 min
Lab File: V11181206N02.D
Acq: 06 Dec 2018 15:03

Tgt Ion:117 Resp: 33137

Ion	Ratio	Lower	Upper
117	100		
119	98.9	64.0	132.8
121	31.3	20.7	42.9
82	22.8	16.3	33.8

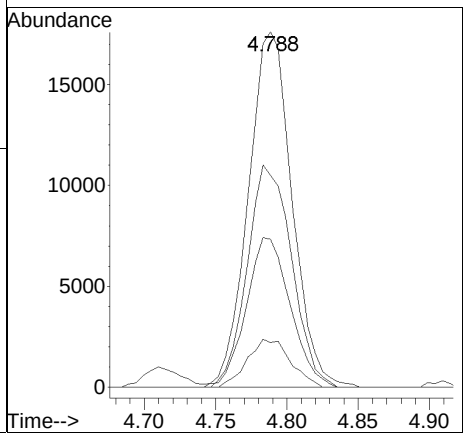


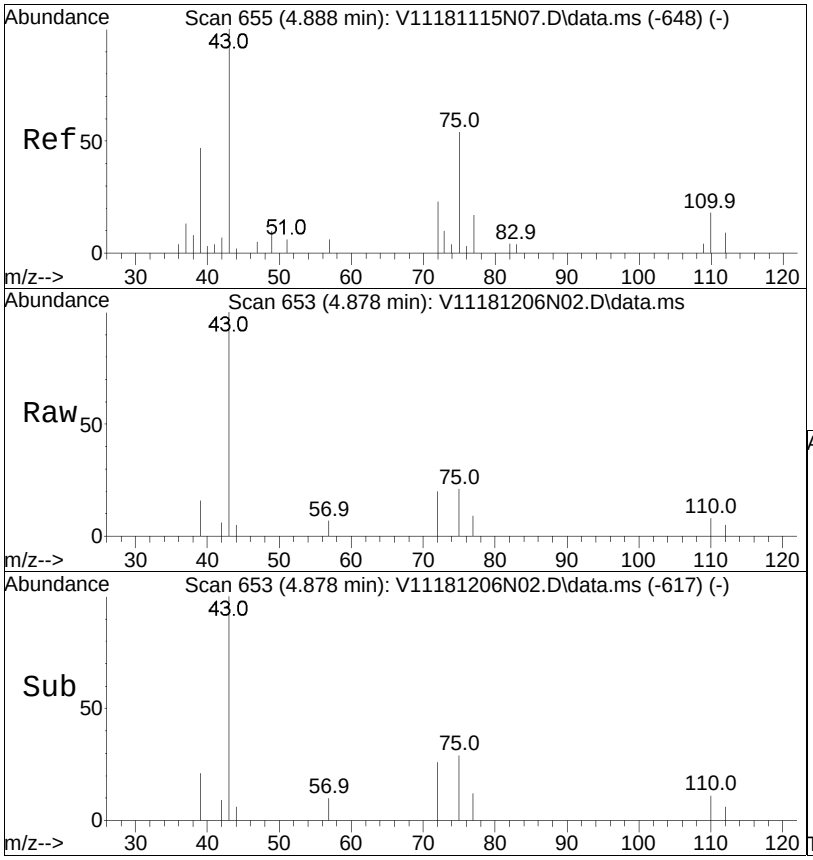


#37
1,1,1-Trichloroethane
Concen: 20.43 ug/L
RT: 4.788 min Scan# 636
Delta R.T. 0.000 min
Lab File: V11181206N02.D
Acq: 06 Dec 2018 15:03

Tgt Ion: 97 Resp: 37616

Ion	Ratio	Lower	Upper
97	100		
99	63.5	41.5	86.1
61	42.5	32.2	67.0
63	13.4	10.1	20.9

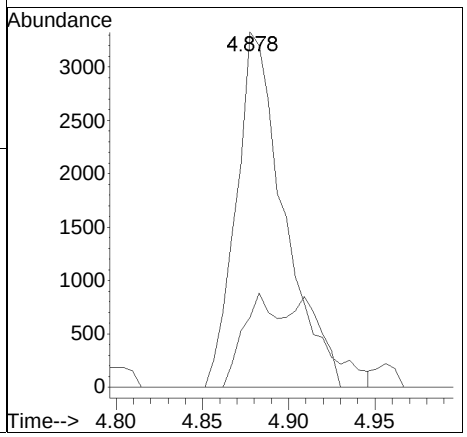


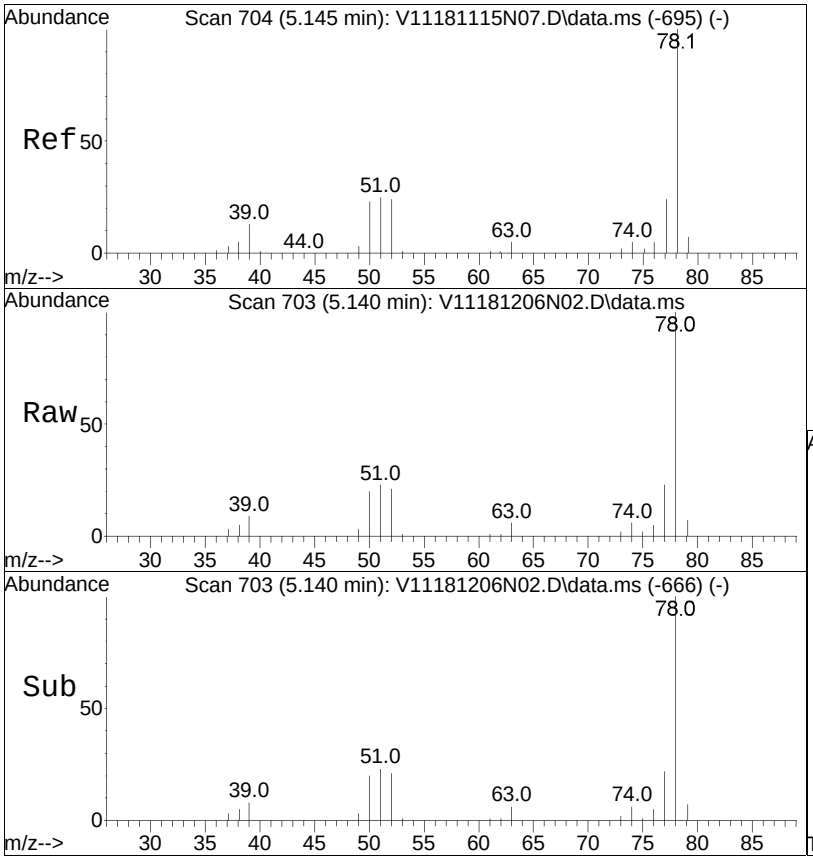


#39
2-Butanone
Concen: 13.65 ug/L
RT: 4.878 min Scan# 653
Delta R.T. -0.010 min
Lab File: V11181206N02.D
Acq: 06 Dec 2018 15:03

Tgt Ion: 43 Resp: 6602

Ion	Ratio	Lower	Upper
43	100		
72	17.4	21.0	31.6#

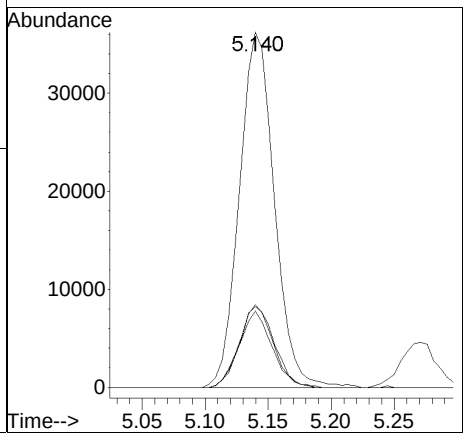


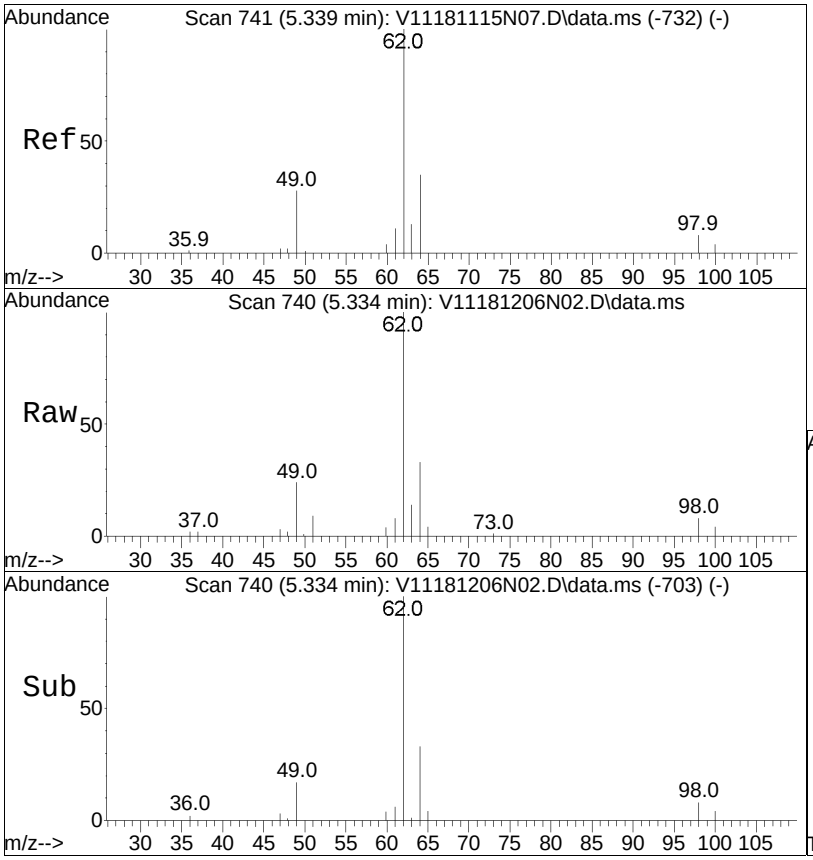


#41
Benzene
Concen: 18.06 ug/L
RT: 5.140 min Scan# 703
Delta R.T. -0.005 min
Lab File: V11181206N02.D
Acq: 06 Dec 2018 15:03

Tgt Ion: 78 Resp: 70015

Ion	Ratio	Lower	Upper
78	100		
77	23.0	15.1	31.3
51	22.2	15.8	32.8
52	20.0	15.6	32.4

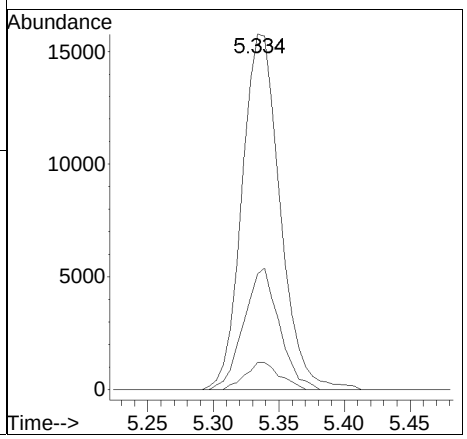


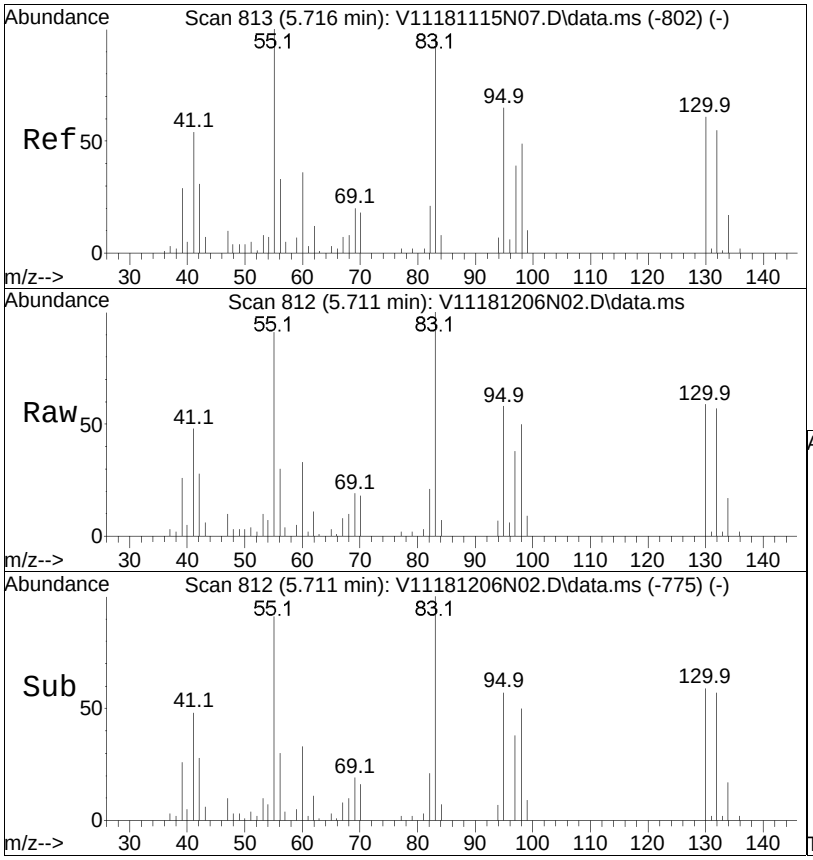


#44
1,2-Dichloroethane
Concen: 16.93 ug/L
RT: 5.334 min Scan# 740
Delta R.T. -0.005 min
Lab File: V11181206N02.D
Acq: 06 Dec 2018 15:03

Tgt Ion: 62 Resp: 31835

Ion	Ratio	Lower	Upper
62	100		
64	31.9	11.1	51.1
98	6.9	0.0	28.0

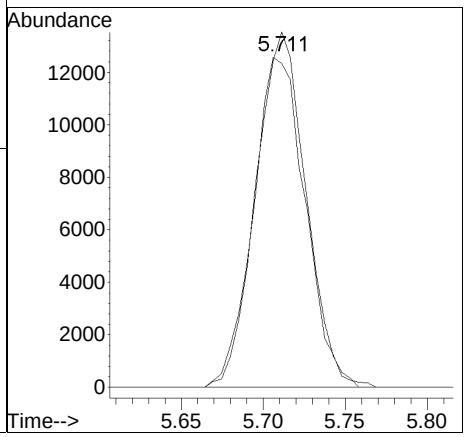


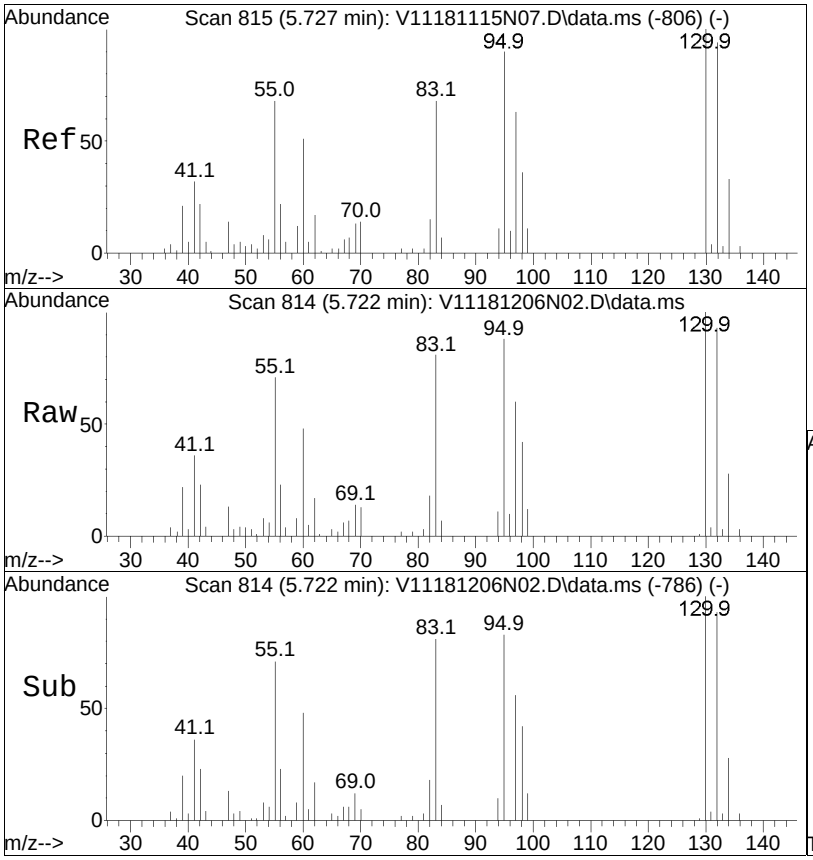


#47
Methyl cyclohexane
Concen: 19.45 ug/L
RT: 5.711 min Scan# 812
Delta R.T. -0.005 min
Lab File: V11181206N02.D
Acq: 06 Dec 2018 15:03

Tgt Ion: 83 Resp: 28694

Ion	Ratio	Lower	Upper
83	100		
55	96.9	88.1	132.1

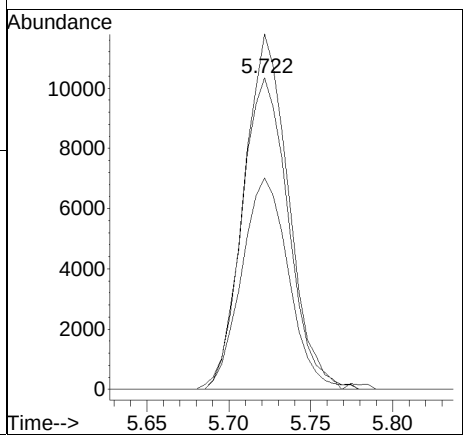


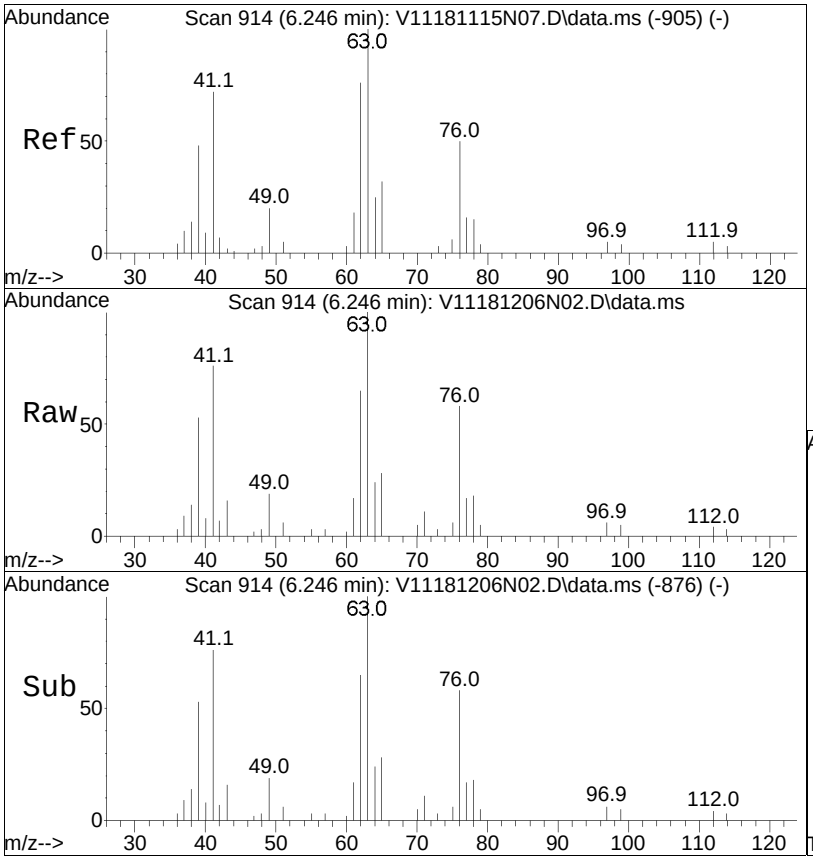


#48
Trichloroethene
Concen: 18.86 ug/L
RT: 5.722 min Scan# 814
Delta R.T. -0.005 min
Lab File: V11181206N02.D
Acq: 06 Dec 2018 15:03

Tgt Ion: 95 Resp: 20374

Ion	Ratio	Lower	Upper
95	100		
97	68.7	54.3	81.5
130	109.4	84.6	126.8

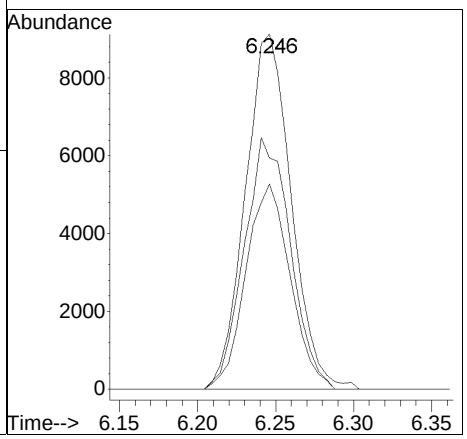


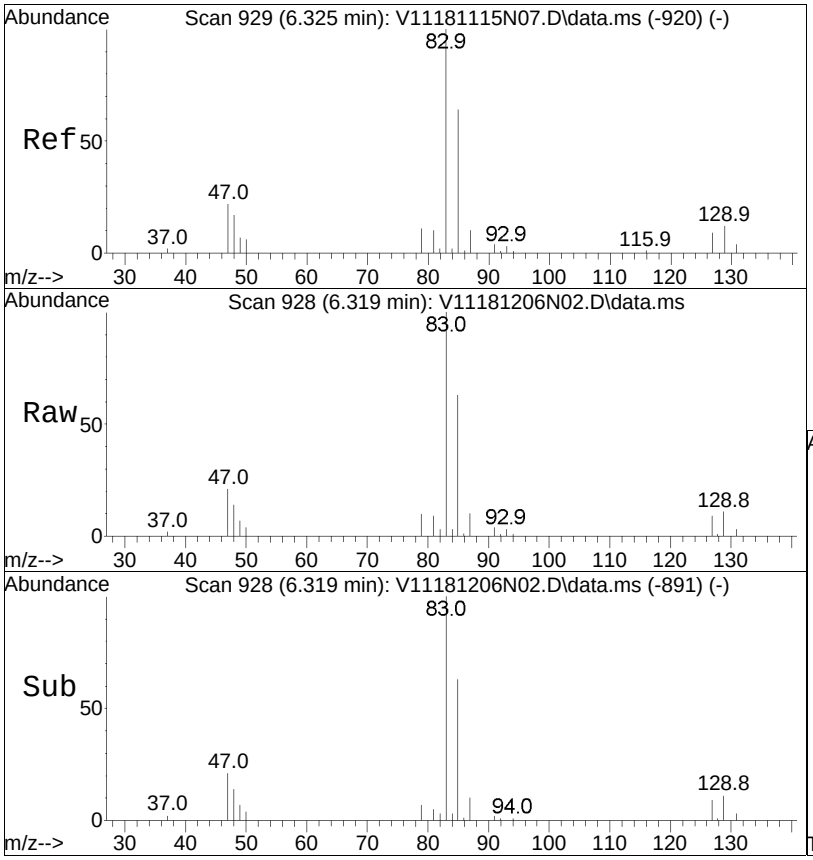


#51
1,2-Dichloropropane
Concen: 16.31 ug/L
RT: 6.246 min Scan# 914
Delta R.T. 0.000 min
Lab File: V11181206N02.D
Acq: 06 Dec 2018 15:03

Tgt Ion: 63 Resp: 18679

Ion	Ratio	Lower	Upper
63	100		
62	71.4	57.9	86.9
76	56.0	30.1	45.1#

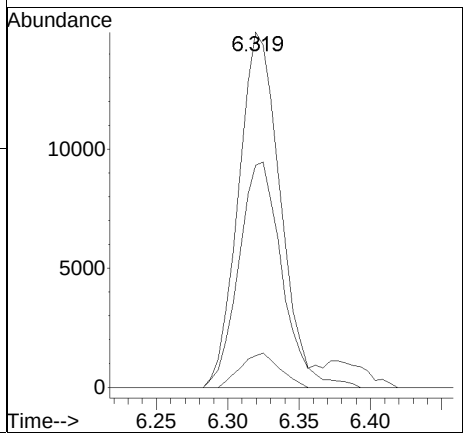


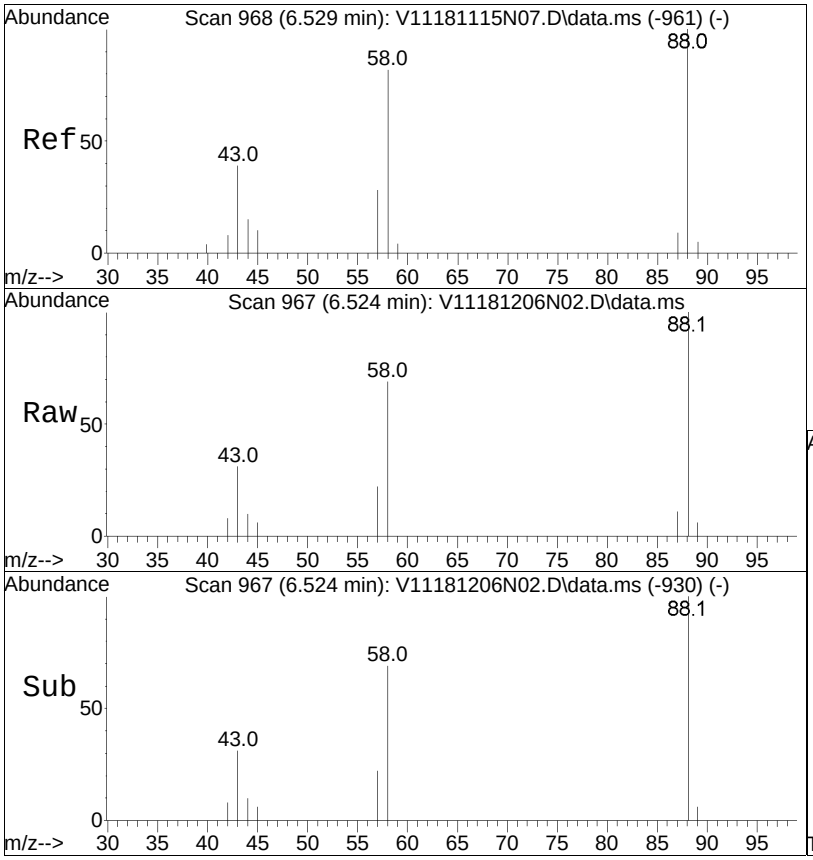


#54
Bromodichloromethane
Concen: 18.39 ug/L
RT: 6.319 min Scan# 928
Delta R.T. -0.006 min
Lab File: V11181206N02.D
Acq: 06 Dec 2018 15:03

Tgt Ion: 83 Resp: 30487

Ion	Ratio	Lower	Upper
83	100		
85	65.4	51.6	77.4
127	9.0	7.1	10.7

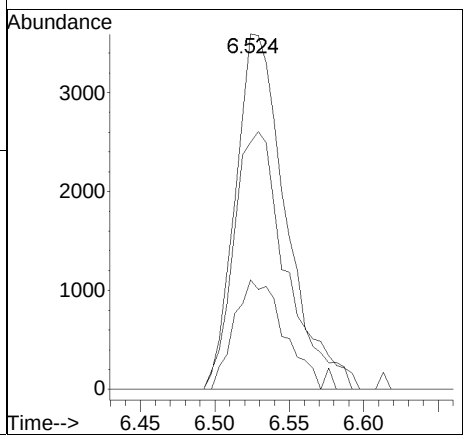


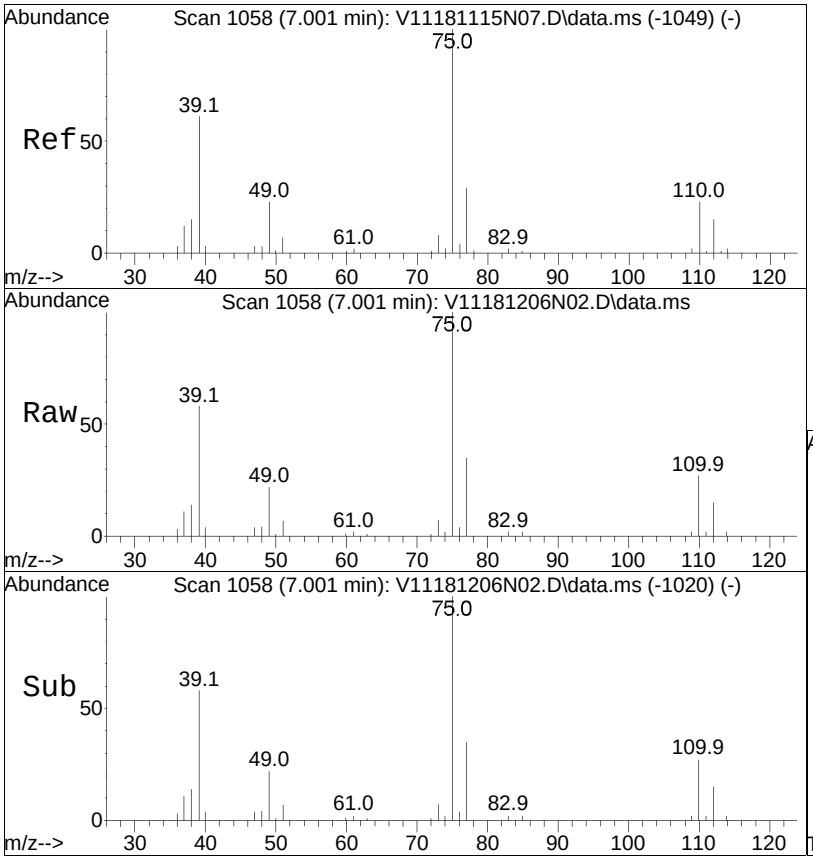


#57
1,4-Dioxane
Concen: 817.29 ug/L
RT: 6.524 min Scan# 967
Delta R.T. -0.005 min
Lab File: V11181206N02.D
Acq: 06 Dec 2018 15:03

Tgt Ion: 88 Resp: 8499

Ion	Ratio	Lower	Upper
88	100		
58	74.9	75.4	113.0#
43	31.1	33.5	50.3#

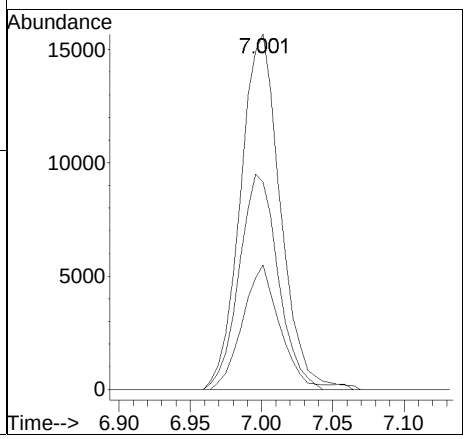


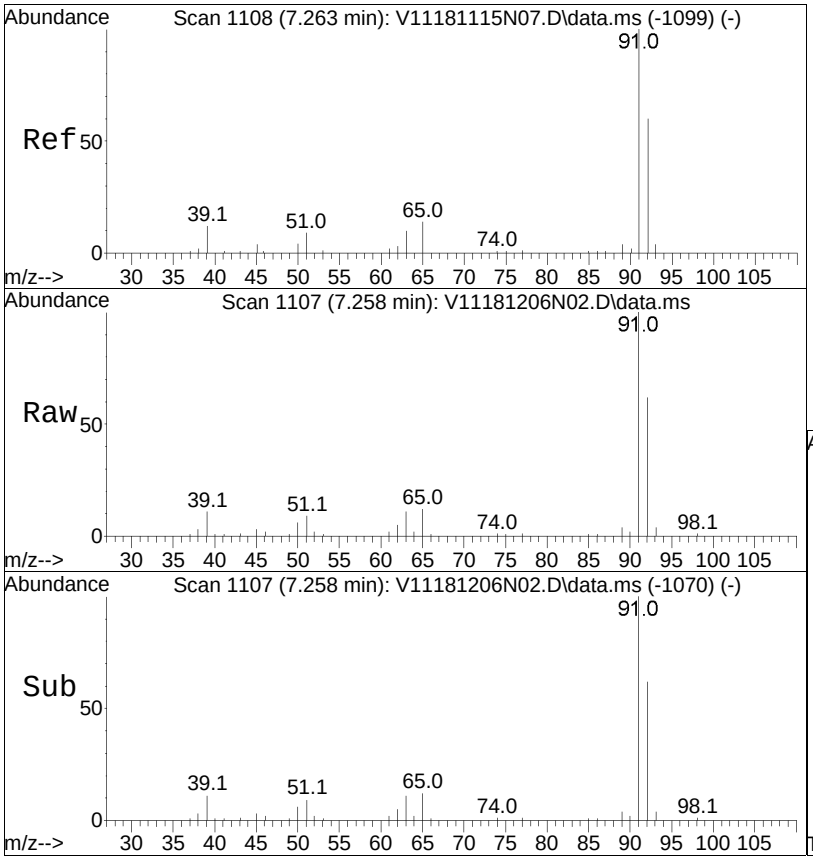


#58
cis-1,3-Dichloropropene
Concen: 17.30 ug/L
RT: 7.001 min Scan# 1058
Delta R.T. 0.000 min
Lab File: V11181206N02.D
Acq: 06 Dec 2018 15:03

Tgt Ion: 75 Resp: 30569

Ion	Ratio	Lower	Upper
75	100		
77	32.4	24.9	37.3
39	59.9	51.8	77.8

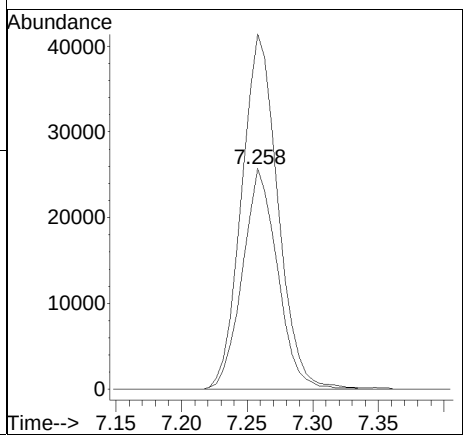


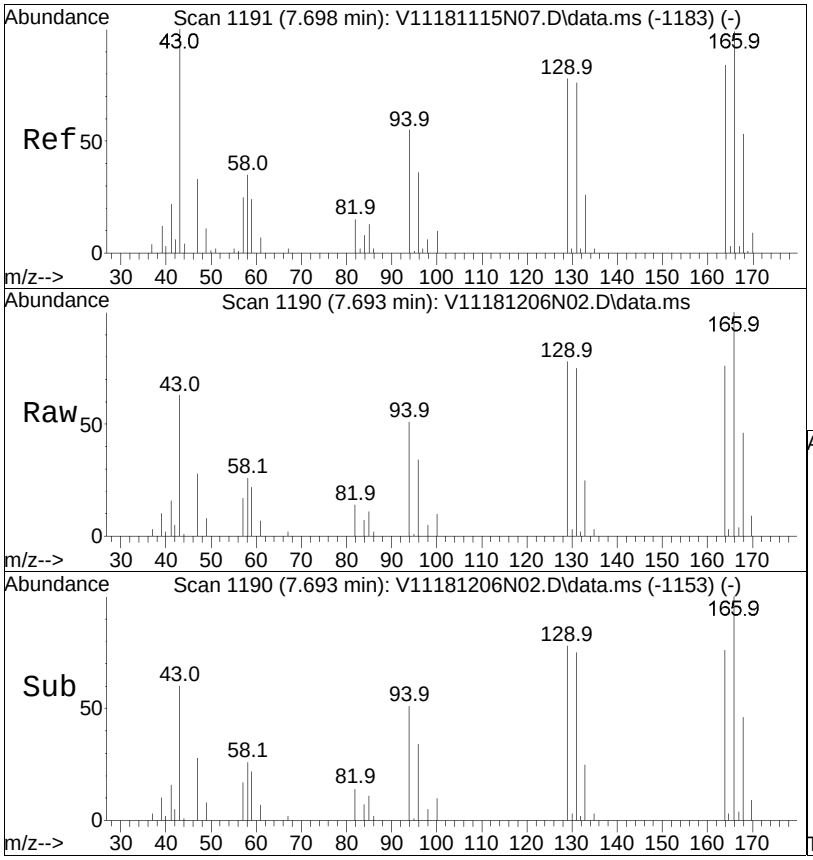


#61
Toluene
Concen: 19.61 ug/L
RT: 7.258 min Scan# 1107
Delta R.T. -0.005 min
Lab File: V11181206N02.D
Acq: 06 Dec 2018 15:03

Tgt Ion: 92 Resp: 47957

Ion	Ratio	Lower	Upper
92	100		
91	166.8	133.7	200.5

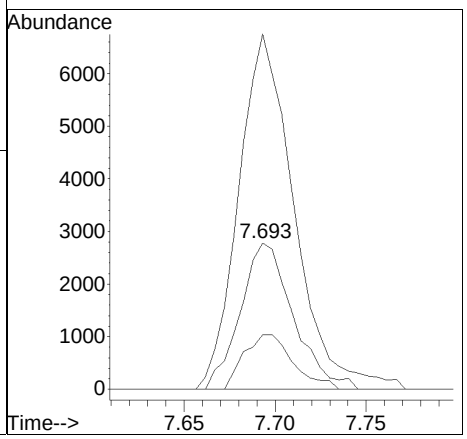


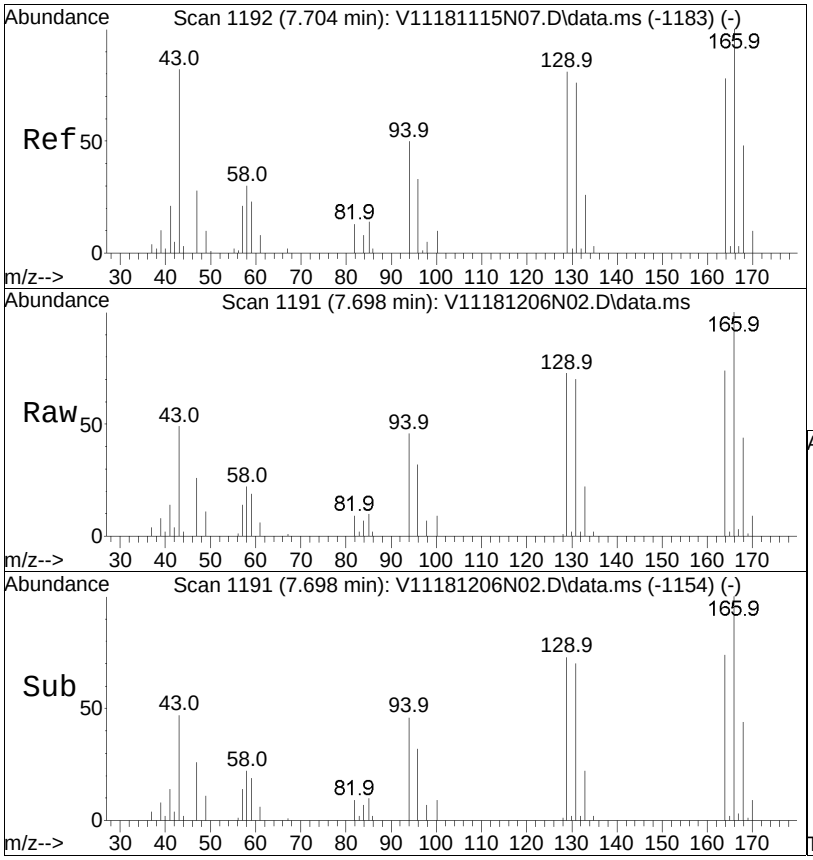


#62
4-Methyl-2-pentanone
Concen: 14.20 ug/L
RT: 7.693 min Scan# 1190
Delta R.T. -0.005 min
Lab File: V11181206N02.D
Acq: 06 Dec 2018 15:03

Tgt Ion: 58 Resp: 5613

Ion	Ratio	Lower	Upper
58	100		
100	35.0	22.0	33.0#
43	255.6	236.9	355.3

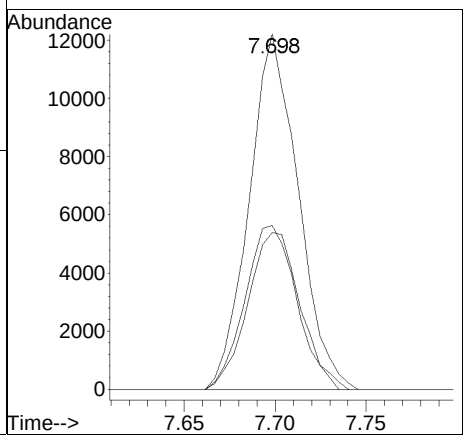


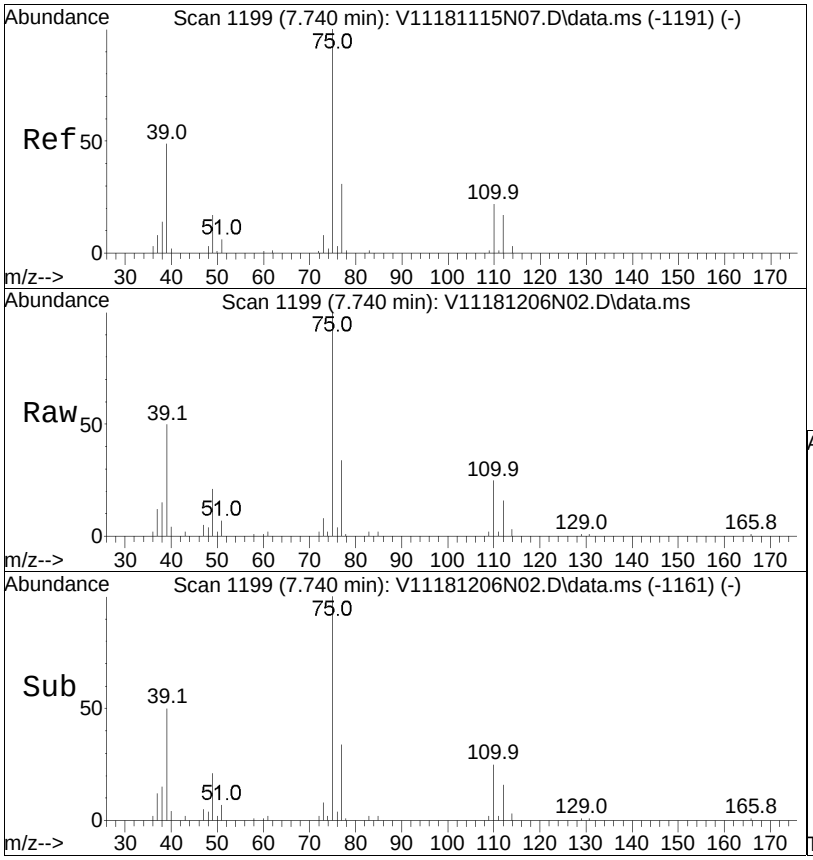


#63
Tetrachloroethene
Concen: 22.53 ug/L
RT: 7.698 min Scan# 1191
Delta R.T. -0.006 min
Lab File: V11181206N02.D
Acq: 06 Dec 2018 15:03

Tgt Ion:166 Resp: 22884

Ion	Ratio	Lower	Upper
166	100		
168	47.2	28.2	68.2
94	48.3	26.3	66.3

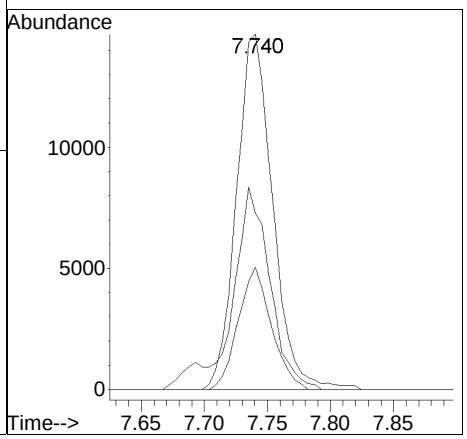


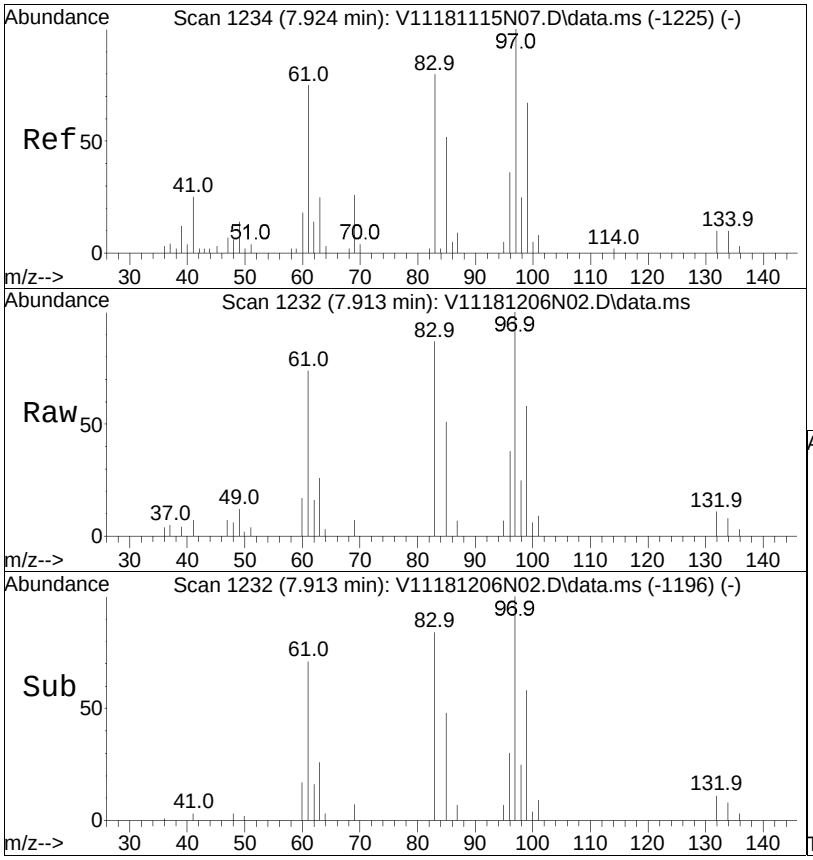


#65
trans-1,3-Dichloropropene
Concen: 18.63 ug/L
RT: 7.740 min Scan# 1199
Delta R.T. 0.000 min
Lab File: V11181206N02.D
Acq: 06 Dec 2018 15:03

Tgt Ion: 75 Resp: 29297

Ion	Ratio	Lower	Upper
75	100		
77	31.5	11.4	51.4
39	54.2	50.3	90.3

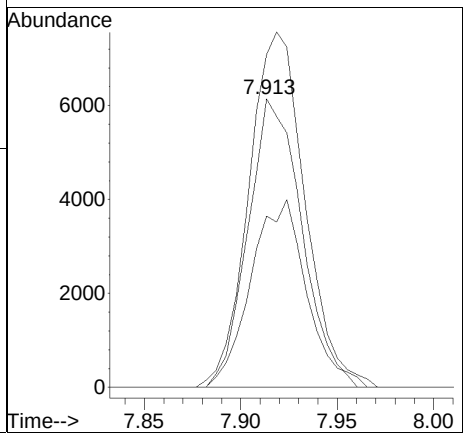


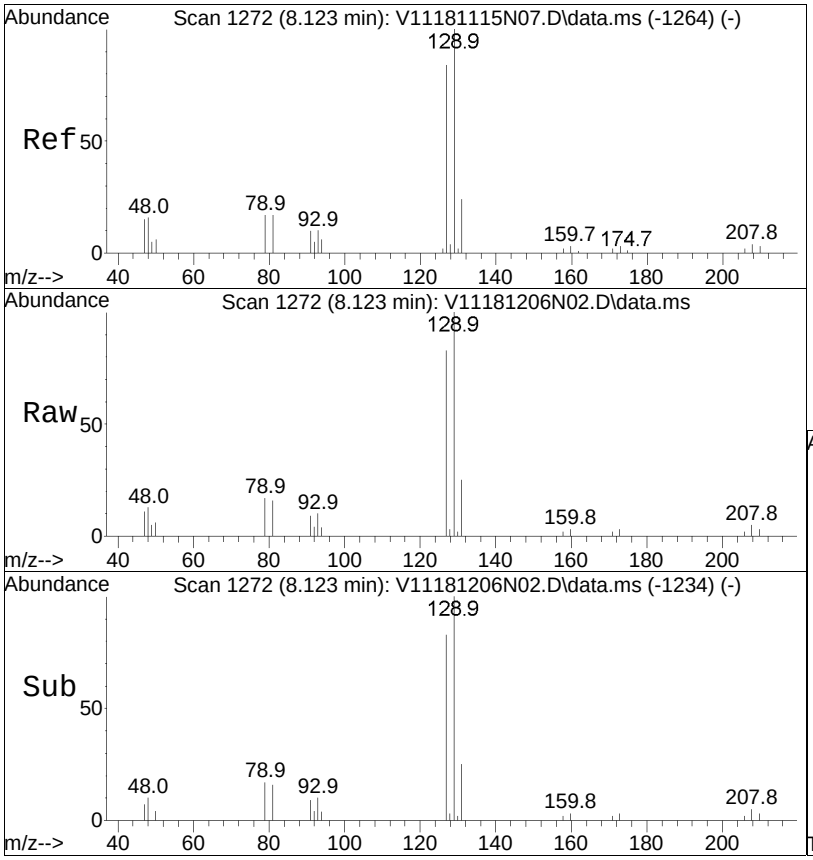


#68
1,1,2-Trichloroethane
Concen: 17.51 ug/L
RT: 7.913 min Scan# 1232
Delta R.T. -0.011 min
Lab File: V11181206N02.D
Acq: 06 Dec 2018 15:03

Tgt Ion: 83 Resp: 11926

Ion	Ratio	Lower	Upper
83	100		
97	128.6	97.6	137.6
85	67.5	46.8	86.8

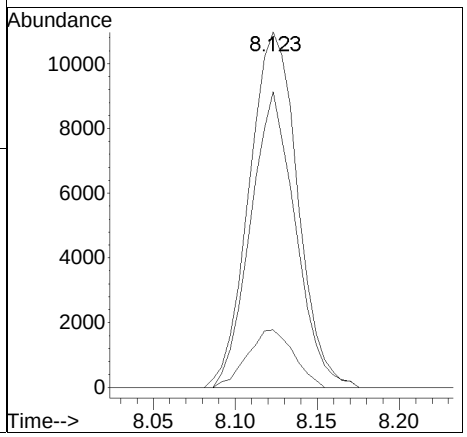


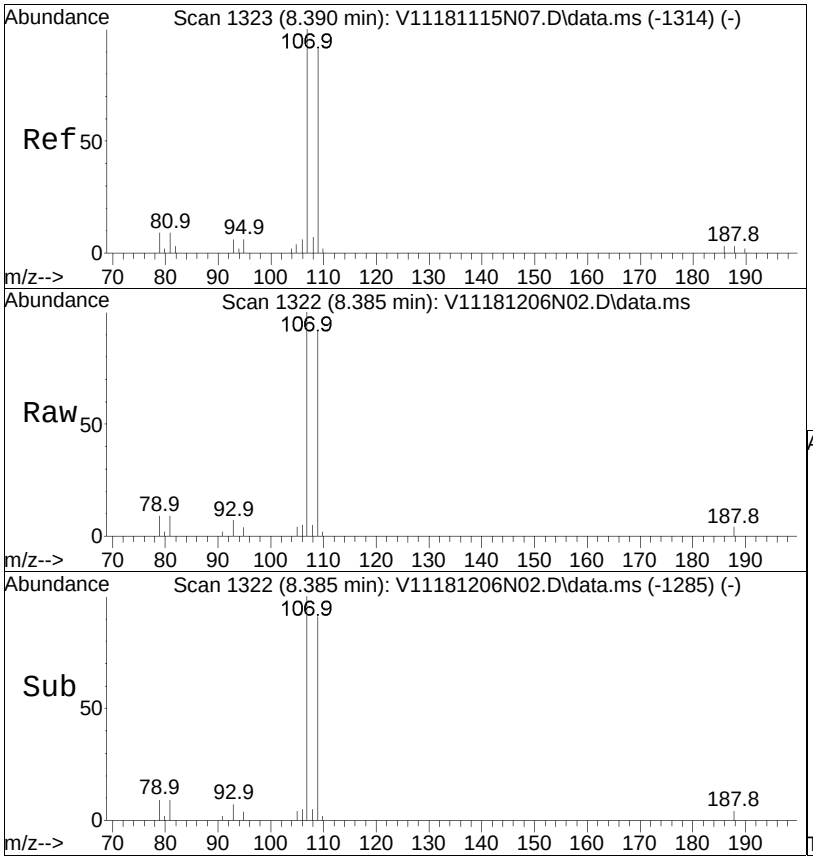


#69
Chlorodibromomethane
Concen: 19.17 ug/L
RT: 8.123 min Scan# 1272
Delta R.T. 0.000 min
Lab File: V11181206N02.D
Acq: 06 Dec 2018 15:03

Tgt Ion:129 Resp: 22602

Ion	Ratio	Lower	Upper
129	100		
81	15.5	0.0	36.0
127	77.2	56.0	96.0

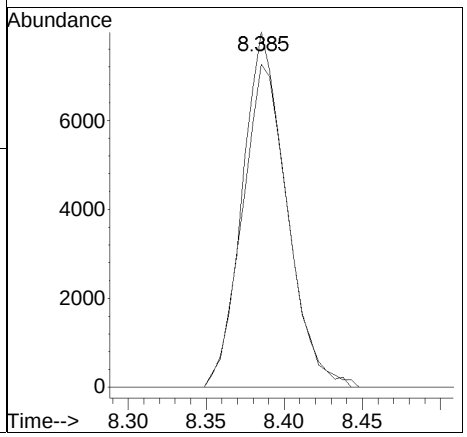


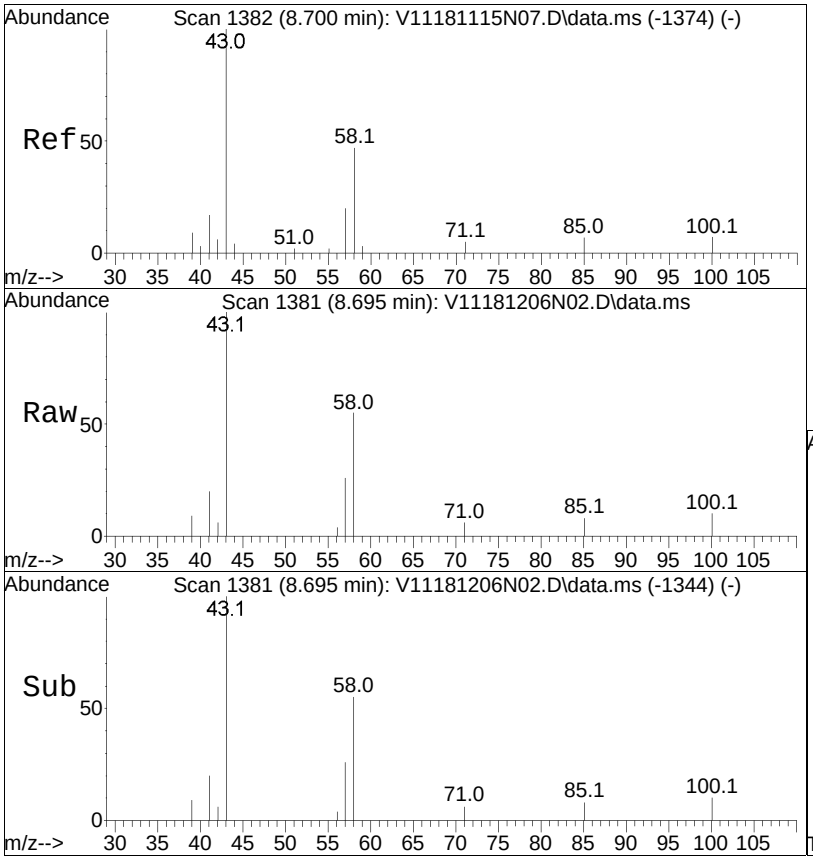


#71
1,2-Dibromoethane
Concen: 18.32 ug/L
RT: 8.385 min Scan# 1322
Delta R.T. -0.005 min
Lab File: V11181206N02.D
Acq: 06 Dec 2018 15:03

Tgt Ion:107 Resp: 15693

Ion	Ratio	Lower	Upper
107	100		
109	94.6	76.2	114.4

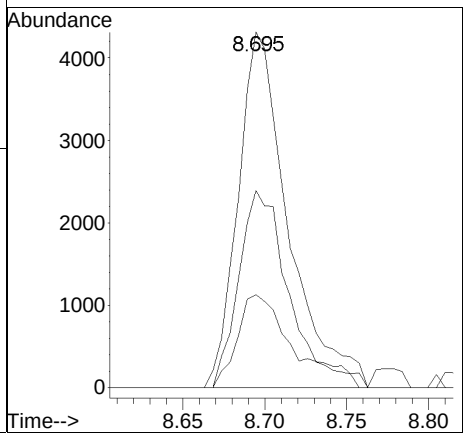


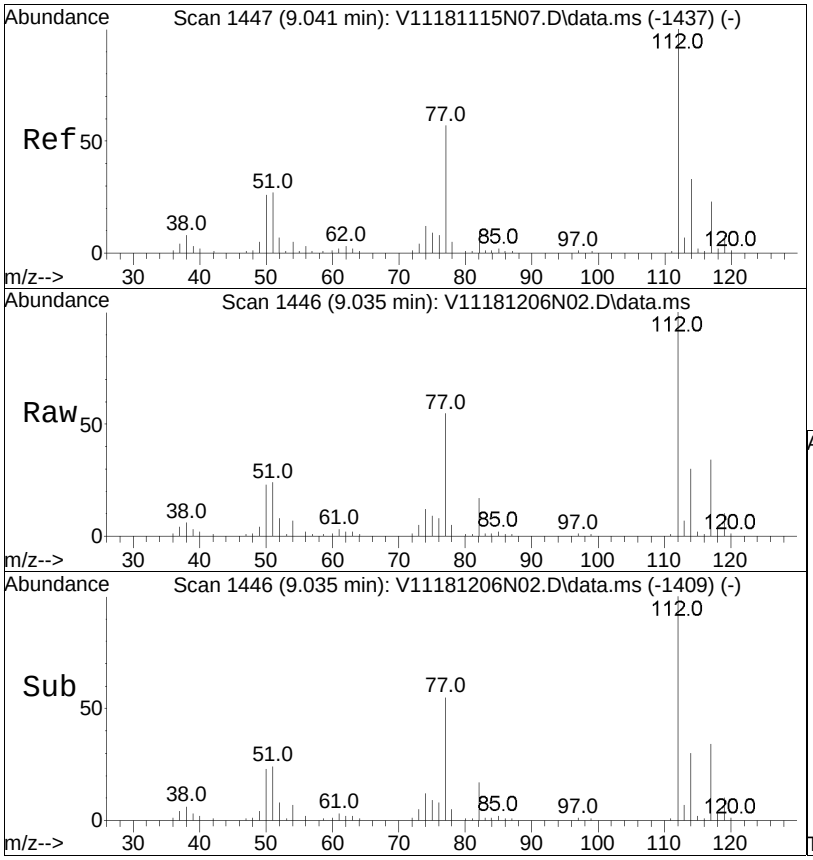


#72
2-Hexanone
Concen: 13.05 ug/L
RT: 8.695 min Scan# 1381
Delta R.T. -0.005 min
Lab File: V11181206N02.D
Acq: 06 Dec 2018 15:03

Tgt Ion: 43 Resp: 9176

Ion	Ratio	Lower	Upper
43	100		
58	55.0	37.9	56.9
57	29.7	12.6	19.0#

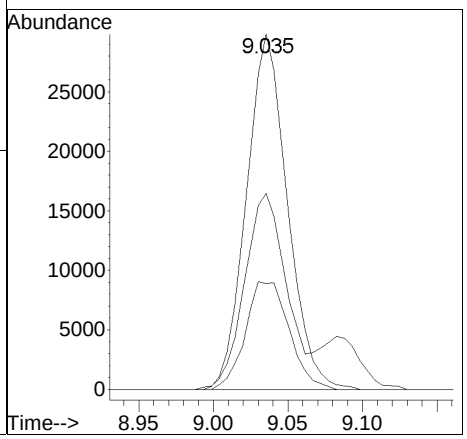


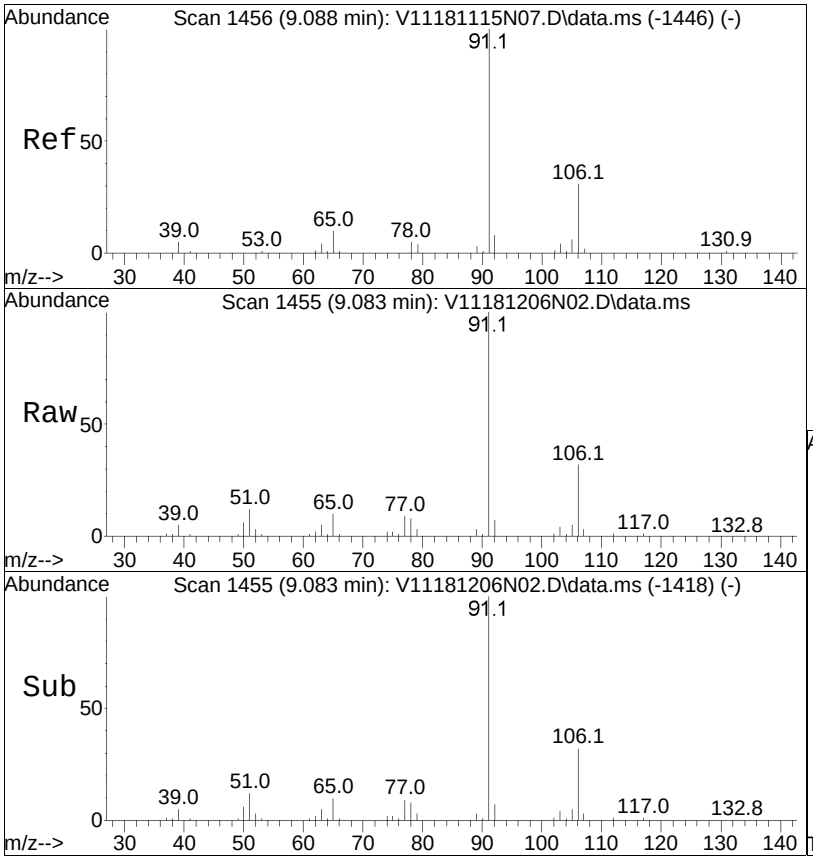


#73
Chlorobenzene
Concen: 19.17 ug/L
RT: 9.035 min Scan# 1446
Delta R.T. -0.006 min
Lab File: V11181206N02.D
Acq: 06 Dec 2018 15:03

Tgt Ion:112 Resp: 57012

Ion	Ratio	Lower	Upper
112	100		
77	57.4	47.0	70.4
114	32.4	25.9	38.9

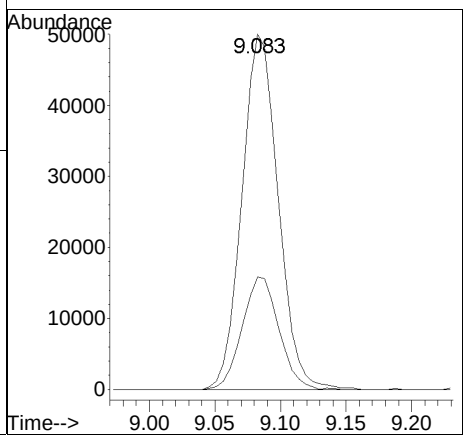


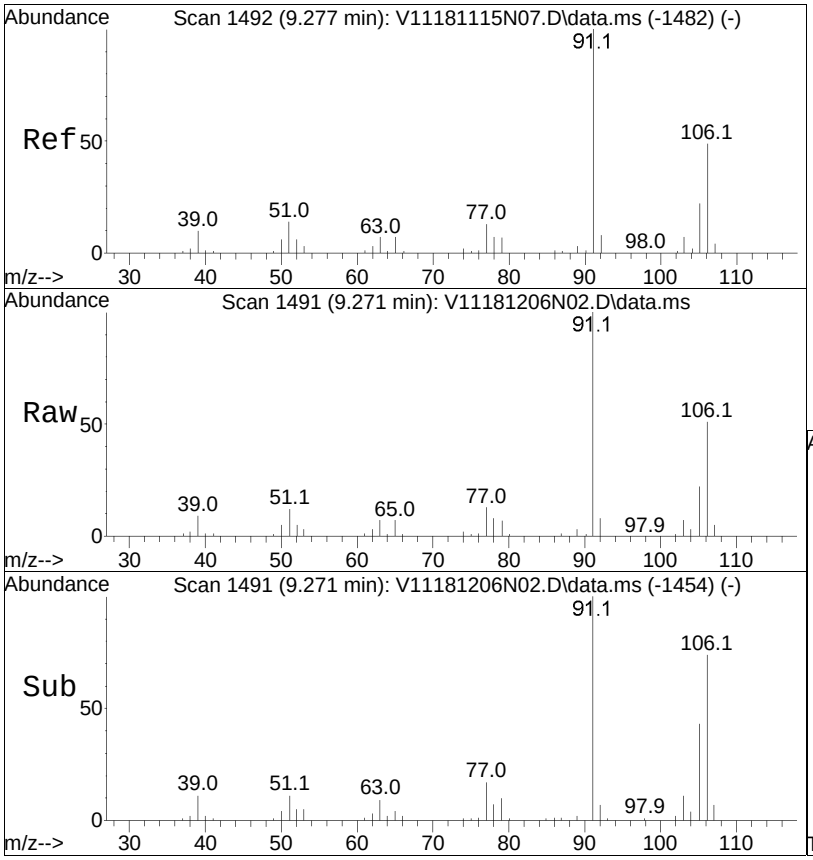


#74
Ethylbenzene
Concen: 19.96 ug/L
RT: 9.083 min Scan# 1455
Delta R.T. -0.005 min
Lab File: V11181206N02.D
Acq: 06 Dec 2018 15:03

Tgt Ion: 91 Resp: 96039

Ion	Ratio	Lower	Upper
91	100		
106	32.1	25.0	37.4

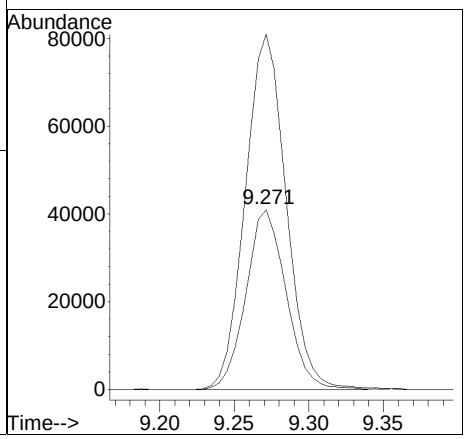


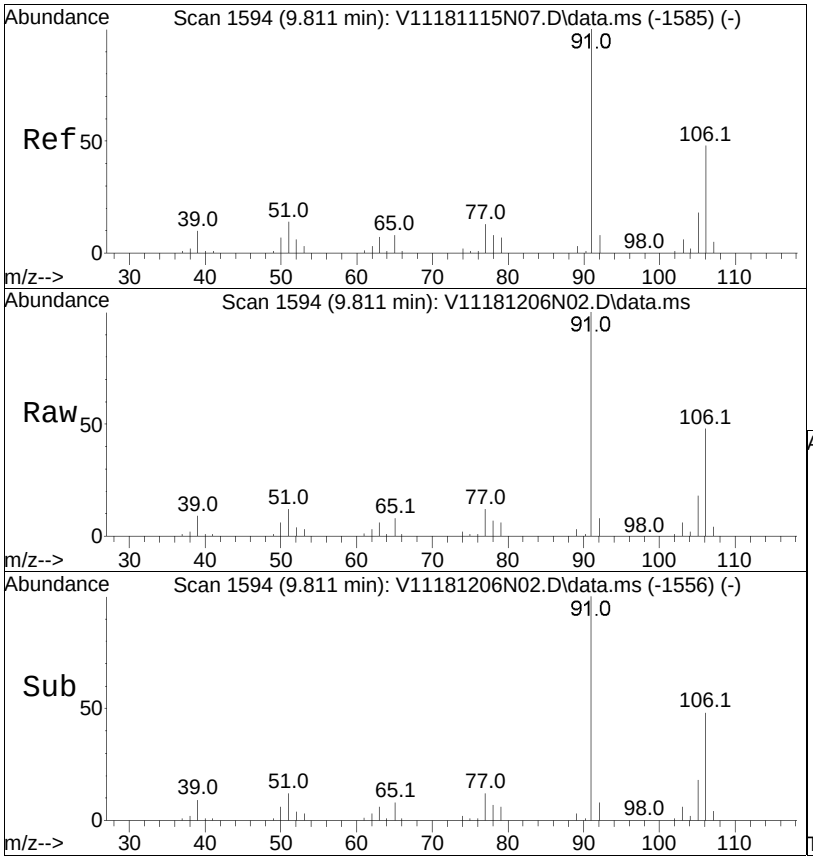


#76
p/m Xylene
Concen: 40.19 ug/L
RT: 9.271 min Scan# 1491
Delta R.T. -0.006 min
Lab File: V11181206N02.D
Acq: 06 Dec 2018 15:03

Tgt Ion:106 Resp: 76522

Ion	Ratio	Lower	Upper
106	100		
91	201.5	159.3	238.9

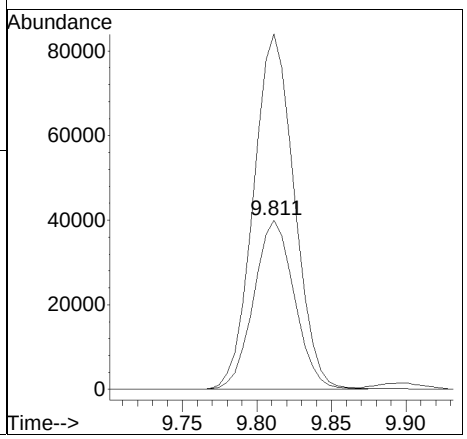


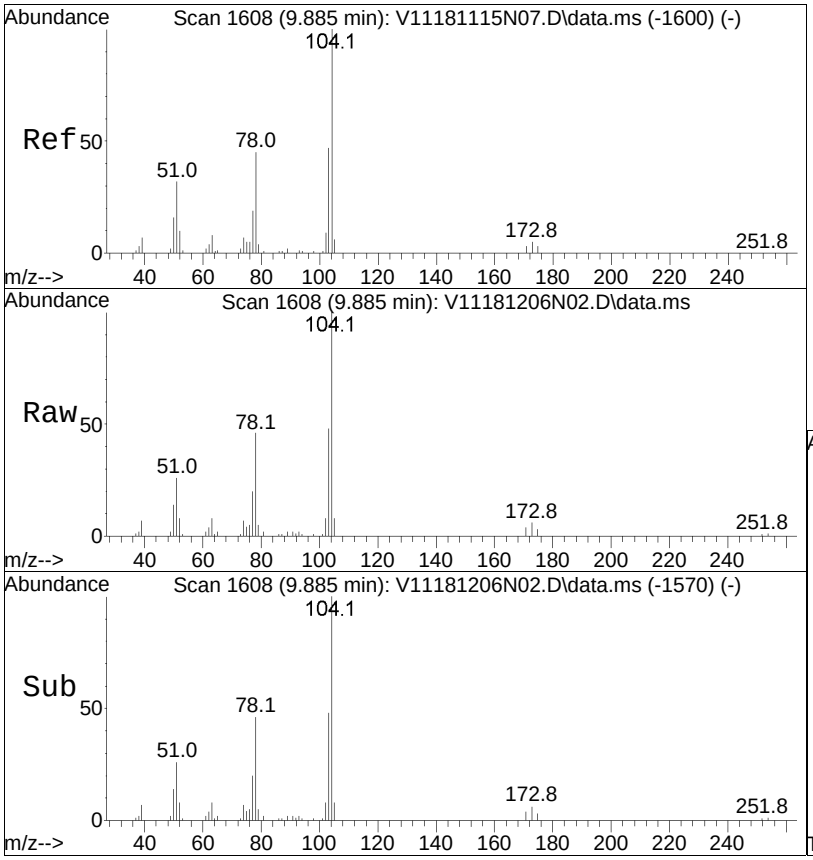


#77
o Xylene
Concen: 39.89 ug/L
RT: 9.811 min Scan# 1594
Delta R.T. 0.000 min
Lab File: V11181206N02.D
Acq: 06 Dec 2018 15:03

Tgt Ion:106 Resp: 75939

Ion	Ratio	Lower	Upper
106	100		
91	210.7	170.2	255.2

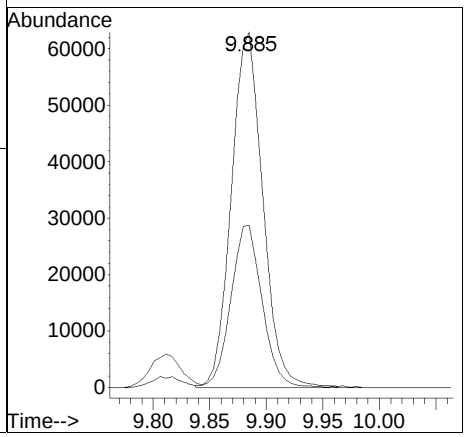


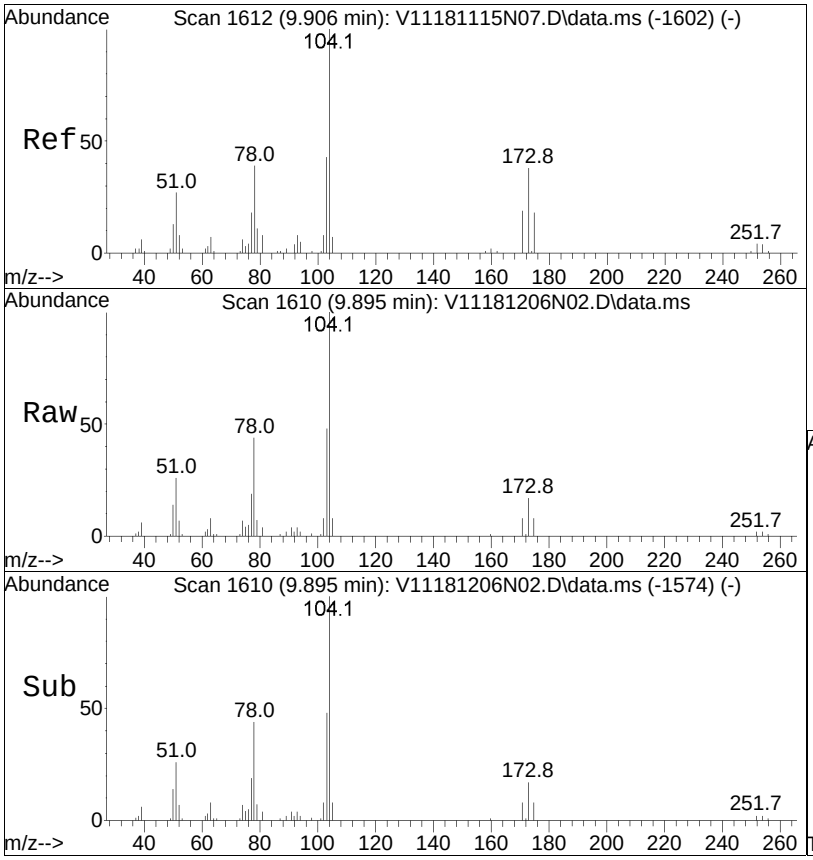


#78
Styrene
Concen: 38.54 ug/L
RT: 9.885 min Scan# 1608
Delta R.T. -0.000 min
Lab File: V11181206N02.D
Acq: 06 Dec 2018 15:03

Tgt Ion:104 Resp: 121921

Ion	Ratio	Lower	Upper
104	100		
78	45.2	34.4	51.6

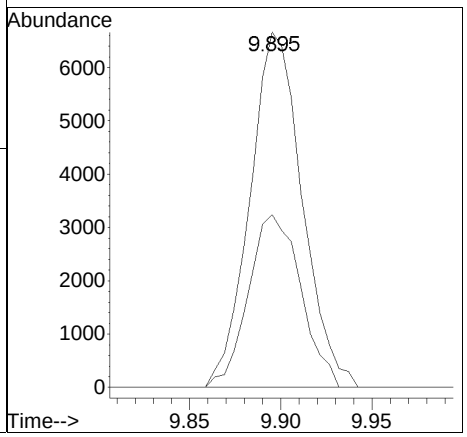


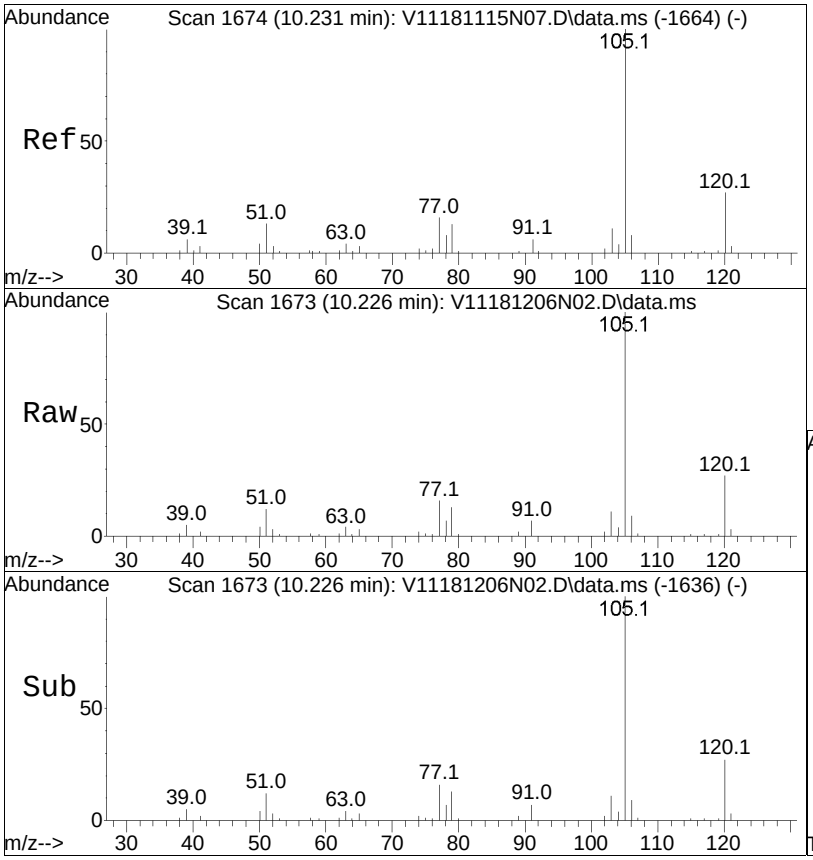


#80
Bromoform
Concen: 20.17 ug/L
RT: 9.895 min Scan# 1610
Delta R.T. -0.011 min
Lab File: V11181206N02.D
Acq: 06 Dec 2018 15:03

Tgt Ion:173 Resp: 13325

Ion	Ratio	Lower	Upper
173	100		
175	48.6	28.1	68.1

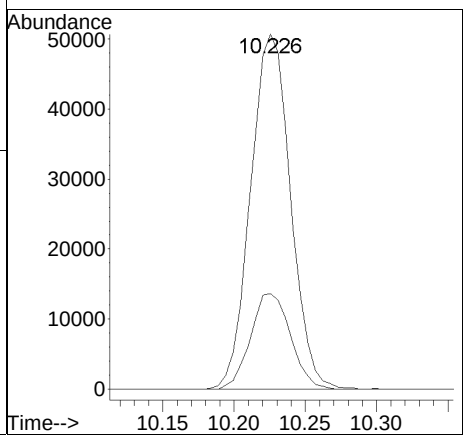


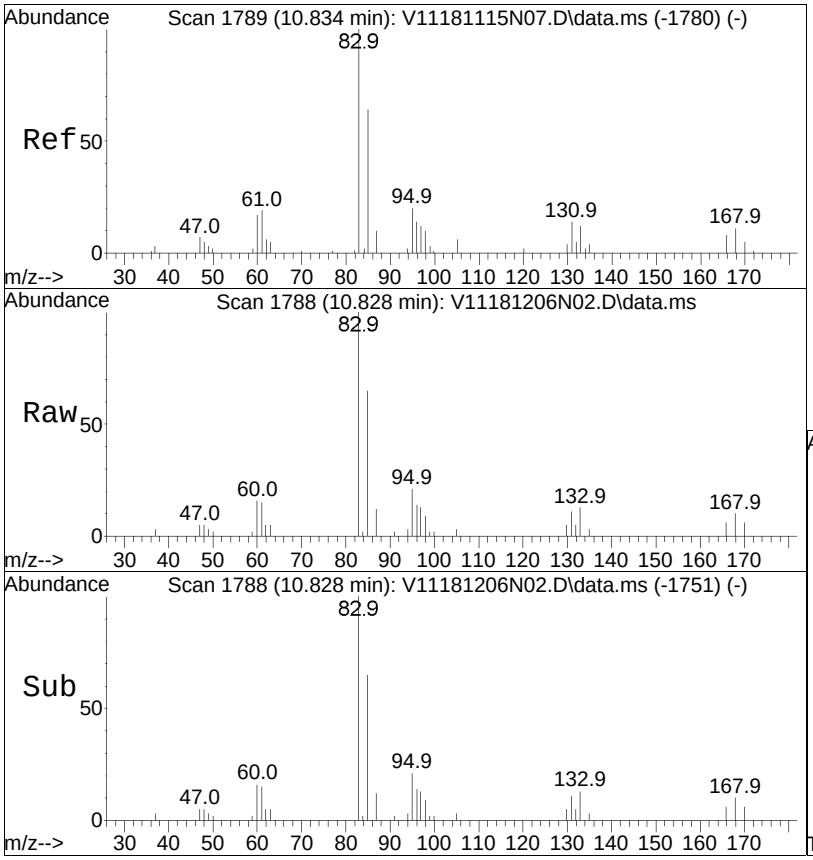


#82
Isopropylbenzene
Concen: 21.39 ug/L
RT: 10.226 min Scan# 1673
Delta R.T. -0.005 min
Lab File: V11181206N02.D
Acq: 06 Dec 2018 15:03

Tgt Ion:105 Resp: 98759

Ion	Ratio	Lower	Upper
105	100		
120	27.1	6.9	46.9

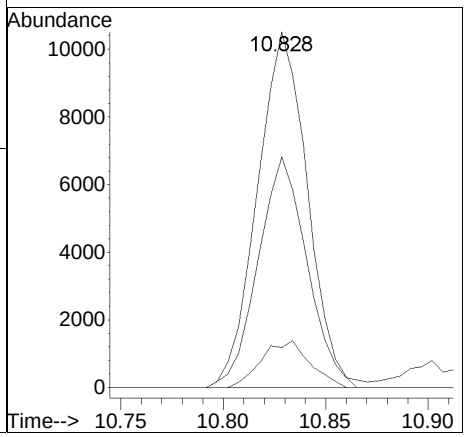


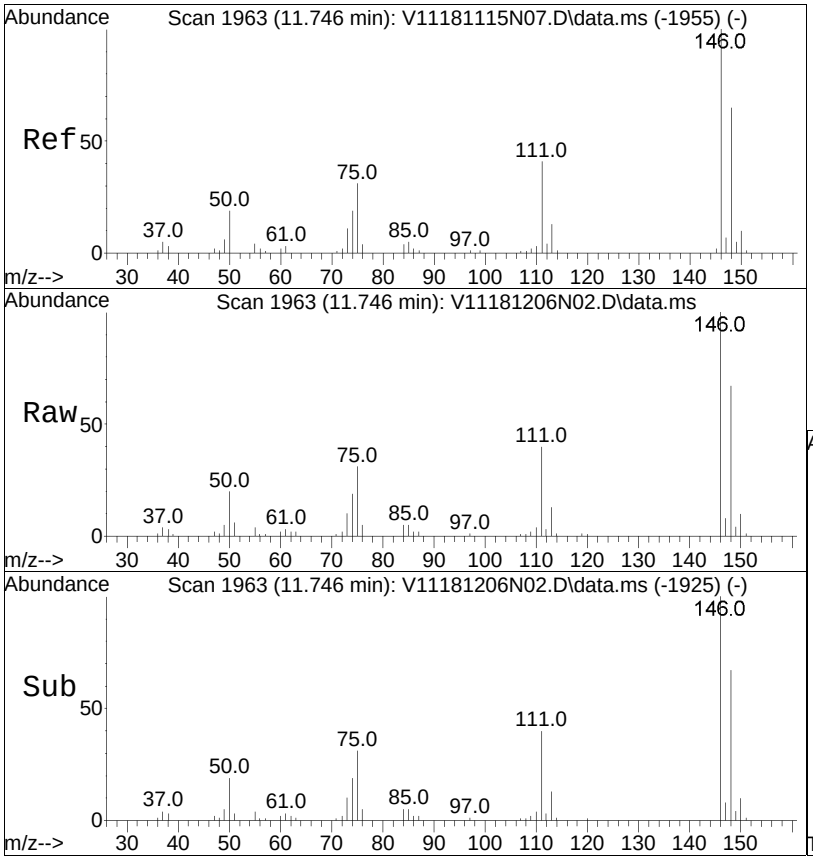


#87
1,1,2,2-Tetrachloroethane
Concen: 17.95 ug/L
RT: 10.828 min Scan# 1788
Delta R.T. -0.006 min
Lab File: V11181206N02.D
Acq: 06 Dec 2018 15:03

Tgt Ion: 83 Resp: 17791

Ion	Ratio	Lower	Upper
83	100		
131	12.7	0.0	30.1
85	64.2	45.8	85.8

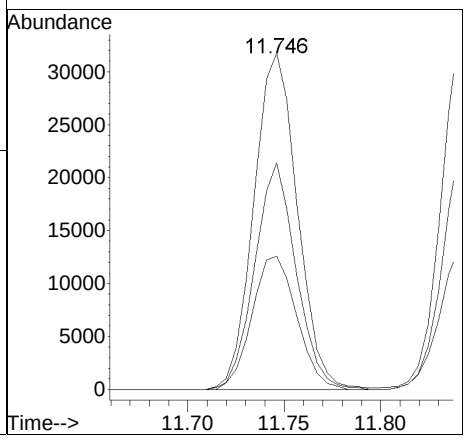


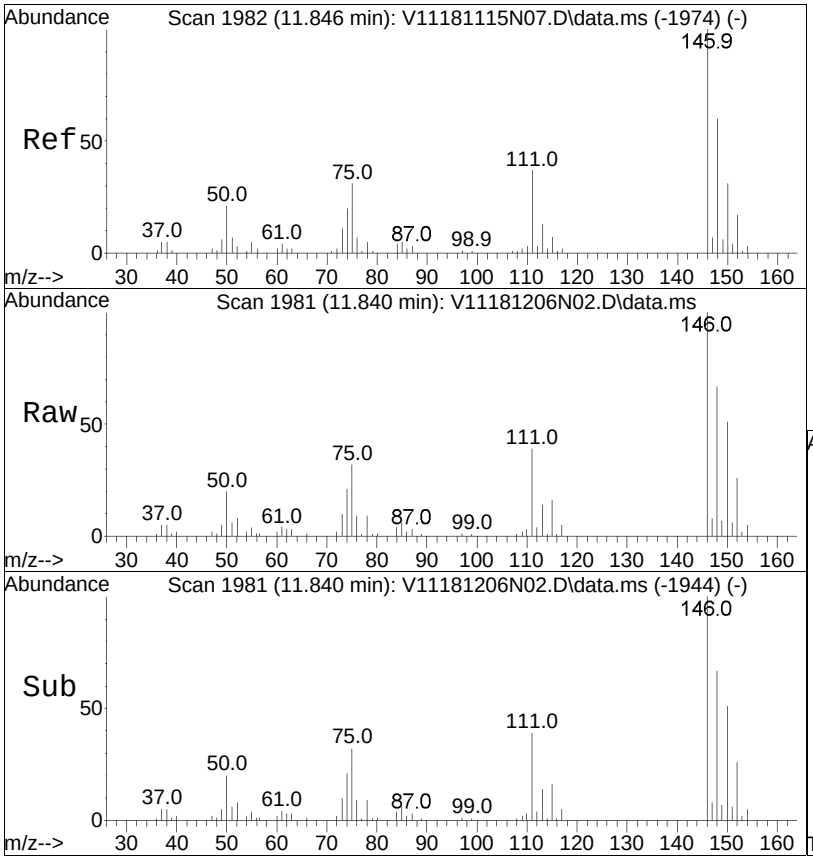


#100
1,3-Dichlorobenzene
Concen: 20.66 ug/L
RT: 11.746 min Scan# 1963
Delta R.T. 0.000 min
Lab File: V11181206N02.D
Acq: 06 Dec 2018 15:03

Tgt Ion:146 Resp: 49773

Ion	Ratio	Lower	Upper
146	100		
111	40.8	25.6	53.2
148	64.1	41.3	85.9

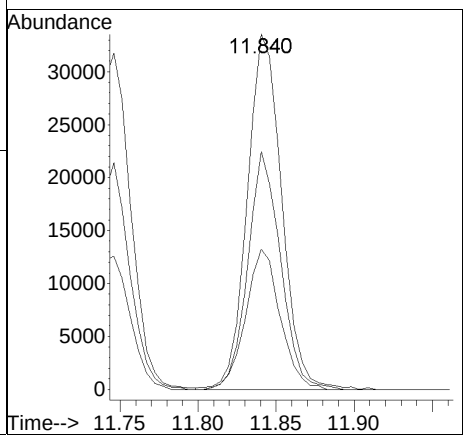


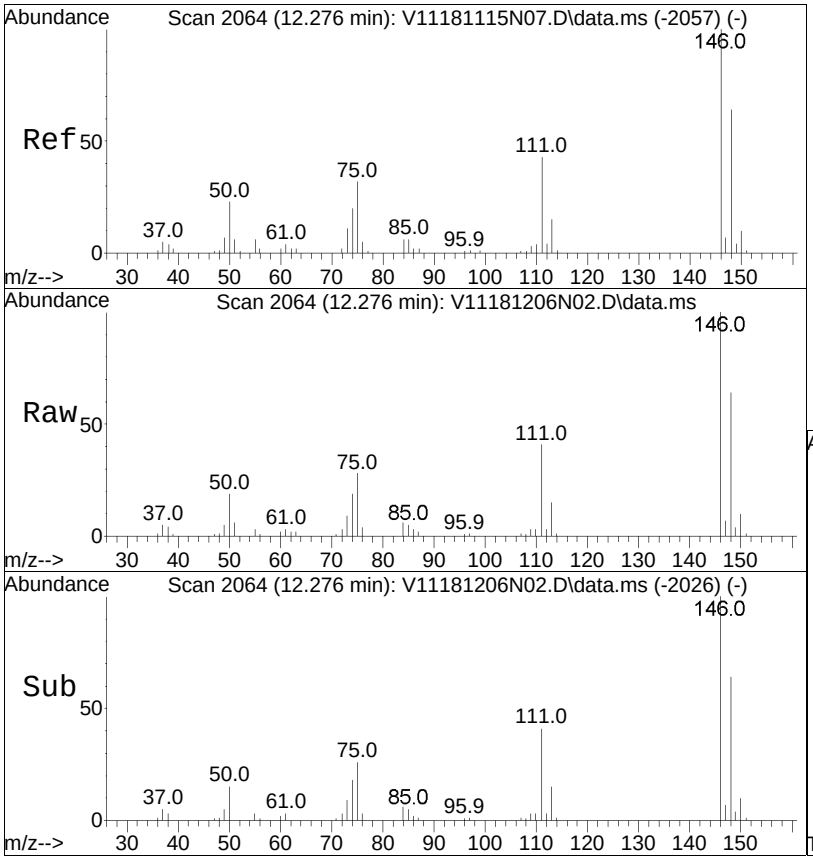


#101
1,4-Dichlorobenzene
Concen: 20.76 ug/L
RT: 11.840 min Scan# 1981
Delta R.T. -0.006 min
Lab File: V11181206N02.D
Acq: 06 Dec 2018 15:03

Tgt Ion:146 Resp: 51535

Ion	Ratio	Lower	Upper
146	100		
111	39.5	31.4	47.0
148	63.7	50.7	76.1

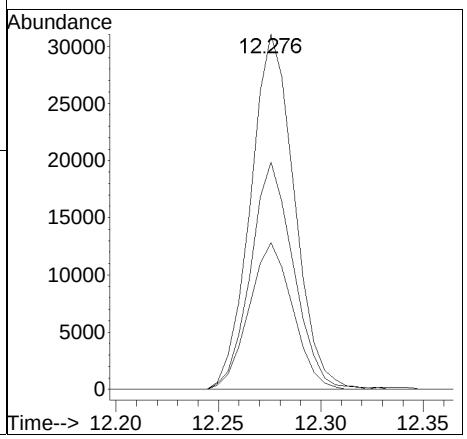


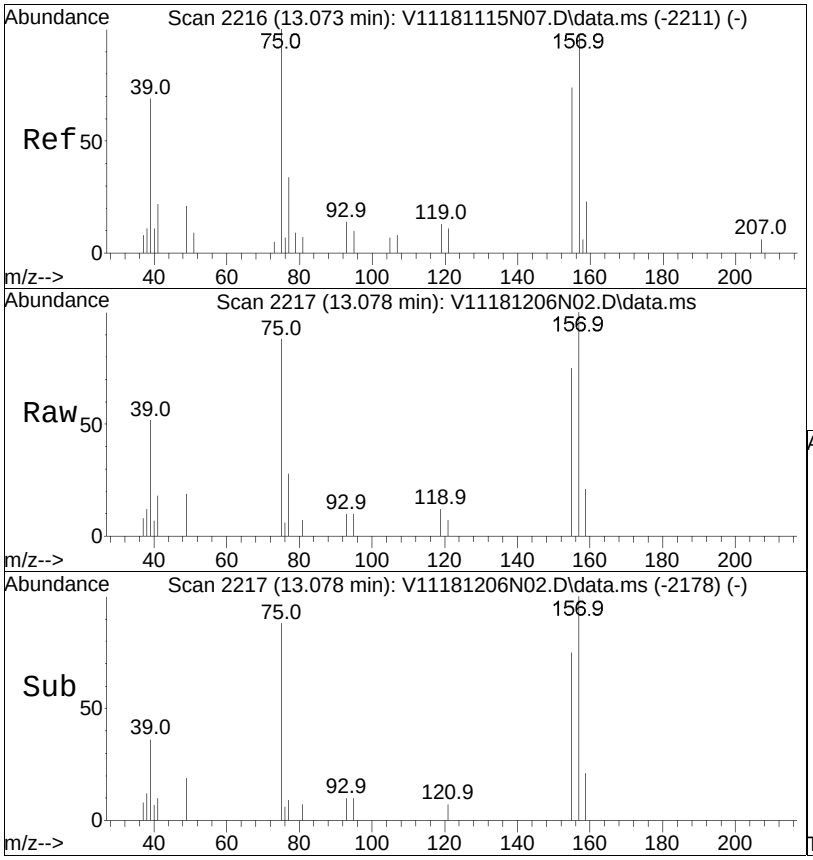


#104
1,2-Dichlorobenzene
Concen: 20.37 ug/L
RT: 12.276 min Scan# 2064
Delta R.T. -0.000 min
Lab File: V11181206N02.D
Acq: 06 Dec 2018 15:03

Tgt Ion:146 Resp: 46165

Ion	Ratio	Lower	Upper
146	100		
111	41.2	26.9	55.9
148	62.9	41.2	85.6

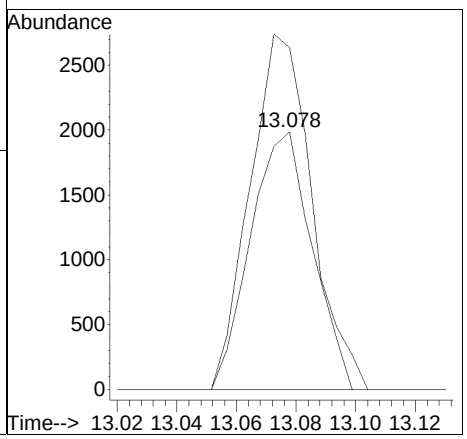


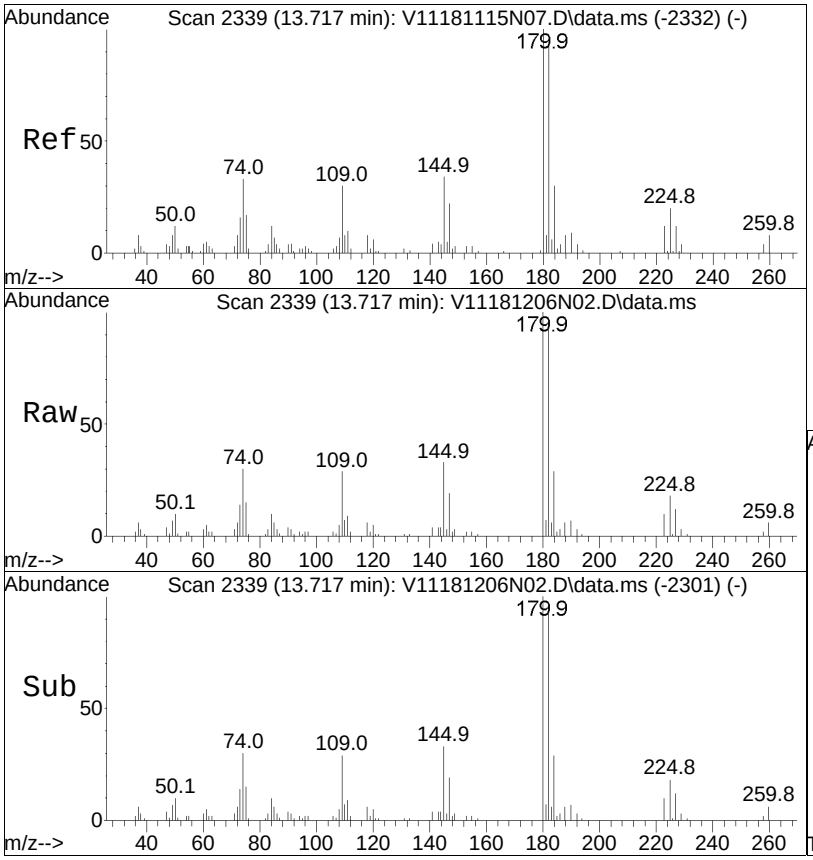


#106
1,2-Dibromo-3-chloropropane
Concen: 15.80 ug/L
RT: 13.078 min Scan# 2217
Delta R.T. 0.005 min
Lab File: V11181206N02.D
Acq: 06 Dec 2018 15:03

Tgt Ion:155 Resp: 2860

Ion	Ratio	Lower	Upper
155	100		
157	138.2	100.0	150.0

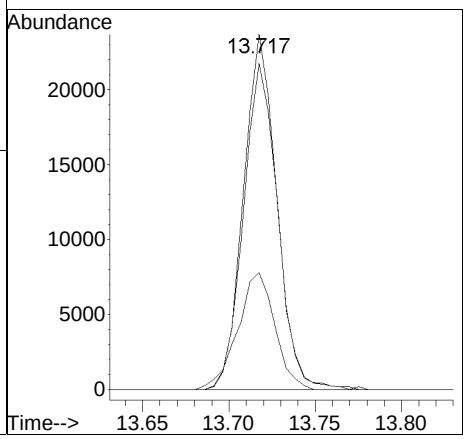


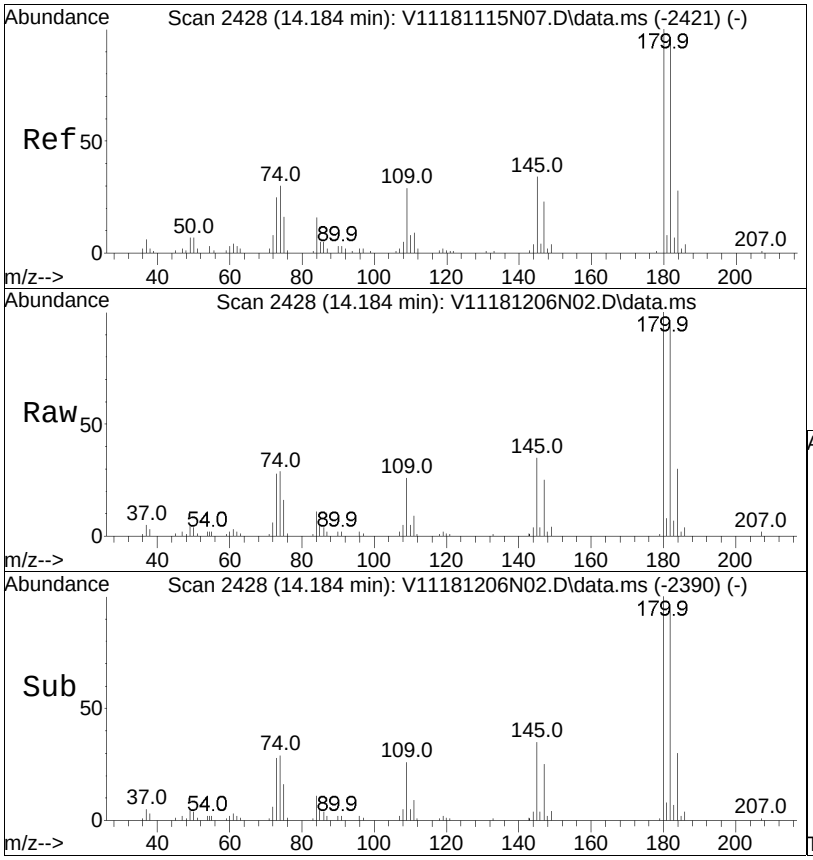


#109
1,2,4-Trichlorobenzene
Concen: 20.49 ug/L
RT: 13.717 min Scan# 2339
Delta R.T. 0.000 min
Lab File: V11181206N02.D
Acq: 06 Dec 2018 15:03

Tgt Ion:180 Resp: 31872

Ion	Ratio	Lower	Upper
180	100		
182	94.3	75.8	113.6
145	36.5	29.6	44.4

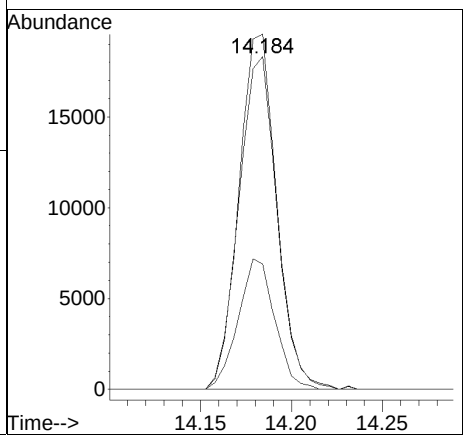




#111
1,2,3-Trichlorobenzene
Concen: 19.22 ug/L
RT: 14.184 min Scan# 2428
Delta R.T. 0.000 min
Lab File: V11181206N02.D
Acq: 06 Dec 2018 15:03

Tgt Ion:180 Resp: 28336

Ion	Ratio	Lower	Upper
180	100		
182	94.4	74.2	111.4
145	35.5	26.3	39.5



Manual Integration Report

Data Path	: I:\VOLATILES\VOA111\2018\1	QMethod	: V111_181115N_8260.m
Data File	: V11181206N02.D	Operator	: VOA111:MKS
Date Inj'd	: 12/6/2018 15:03	Instrument	: VOA111
Sample	: WG1186672-4,31,5,5	Quant Date	: 12/6/2018 3:26 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2018\181206N\
Data File : V11181206N26.D
Acq On : 07 Dec 2018 01:26 am
Operator : VOA111:MV
Sample : WG1186672-6,31,4.69,5,,z2
Misc : WG1186672,ICAL15260
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Dec 07 04:03:08 2018
Quant Method : I:\VOLATILES\VOA111\2018\181206N\V111_181115N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 19 17:40:28 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2018\181206N\V11181206N01.D
Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.548	96	46166	20.000	ug/L	0.00
Standard Area 1 = 82887			Recovery =	55.70%		
59) Chlorobenzene-d5	9.019	117	33483	20.000	ug/L	0.00
Standard Area 1 = 66465			Recovery =	50.38%		
79) 1,4-Dichlorobenzene-d4	11.830	152	12115	20.000	ug/L	0.00
Standard Area 1 = 34331			Recovery =	35.29% *		
System Monitoring Compounds						
36) Dibromofluoromethane	4.767	113	13580	22.004	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	110.02%		
43) 1,2-Dichloroethane-d4	5.271	65	18718	24.592	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	122.96%		
60) Toluene-d8	7.205	98	43188	21.576	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	107.88%		
83) 4-Bromofluorobenzene	10.561	95	14592	25.955	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	129.78%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.527	85	33838	79.833	ug/L	98
3) Chloromethane	1.705	50	46194	78.566	ug/L	99
4) Vinyl chloride	1.742	62	32157	77.791	ug/L	99
5) Bromomethane	2.015	94	24934	73.258	ug/L	99
6) Chloroethane	2.114	64	22698	81.079	ug/L	99
7) Trichlorofluoromethane	2.235	101	49602	58.835	ug/L	99
10) 1,1-Dichloroethene	2.670	96	30388	72.694	ug/L	95
11) Carbon disulfide	2.701	76	45706	35.221	ug/L	98
12) Freon-113	2.707	101	16241	36.134	ug/L	89
15) Methylene chloride	3.173	84	43409	75.701	ug/L	90
17) Acetone	3.210	43	22397	136.030	ug/L	98
18) trans-1,2-Dichloroethene	3.315	96	26737	50.458	ug/L	98
19) Methyl acetate	3.320	43	44780	98.029	ug/L #	96
20) Methyl tert-butyl ether	3.404	73	132322	77.103	ug/L	92
23) 1,1-Dichloroethane	3.855	63	74636	63.879	ug/L	97
28) cis-1,2-Dichloroethene	4.348	96	34466	54.163	ug/L	98
30) Bromochloromethane	4.526	128	18923	60.818	ug/L #	74
31) Cyclohexane	4.531	56	21281	20.283	ug/L	86
32) Chloroform	4.599	83	81979	69.979	ug/L	97
34) Carbon tetrachloride	4.725	117	22692	25.888	ug/L	99

Data Path : I:\VOLATILES\VOA111\2018\181206N\
Data File : V11181206N26.D
Acq On : 07 Dec 2018 01:26 am
Operator : VOA111:MV
Sample : WG1186672-6,31,4.69,5,,z2
Misc : WG1186672,ICAL15260
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Dec 07 04:03:08 2018
Quant Method : I:\VOLATILES\VOA111\2018\181206N\V111_181115N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 19 17:40:28 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2018\181206N\V11181206N01.D
Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) 1,1,1-Trichloroethane	4.788	97	54956	52.618	ug/L		96
39) 2-Butanone	4.877	43	19767	72.051	ug/L		98
41) Benzene	5.140	78	100912	45.898	ug/L		98
44) 1,2-Dichloroethane	5.339	62	72656	68.114	ug/L		98
47) Methyl cyclohexane	5.711	83	12905	15.421	ug/L		97
48) Trichloroethene	5.721	95	22864	37.313	ug/L		97
51) 1,2-Dichloropropane	6.246	63	29831	45.918	ug/L	#	86
54) Bromodichloromethane	6.324	83	21550	22.923	ug/L		100
57) 1,4-Dioxane	6.529	88	27772	4537.334	ug/L		88
58) cis-1,3-Dichloropropene	7.001	75	34062	33.988	ug/L		95
61) Toluene	7.258	92	50951	40.013	ug/L		97
62) 4-Methyl-2-pentanone	7.698	58	13212	64.183	ug/L	#	84
63) Tetrachloroethene	7.703	166	15358	29.035	ug/L		94
65) trans-1,3-Dichloropropene	7.735	75	31266	38.172	ug/L		91
68) 1,1,2-Trichloroethane	7.924	83	17398	49.044	ug/L		90
69) Chlorodibromomethane	8.123	129	11626	18.935	ug/L		99
71) 1,2-Dibromoethane	8.390	107	18810	42.166	ug/L		98
72) 2-Hexanone	8.694	43	21416	54.825	ug/L	#	92
73) Chlorobenzene	9.035	112	43941	28.367	ug/L		98
74) Ethylbenzene	9.088	91	63590	25.371	ug/L		98
76) p/m Xylene	9.276	106	49043	49.456	ug/L		100
77) o Xylene	9.811	106	48316	48.729	ug/L		100
78) Styrene	9.885	104	73427	44.562	ug/L		95
80) Bromoform	9.900	173	5252	21.684	ug/L		100
82) Isopropylbenzene	10.225	105	49339	29.150	ug/L		97
87) 1,1,2,2-Tetrachloroethane	10.828	83	17094	47.053	ug/L		97
100) 1,3-Dichlorobenzene	11.746	146	20603	23.331	ug/L		99
101) 1,4-Dichlorobenzene	11.845	146	20915	22.979	ug/L		97
104) 1,2-Dichlorobenzene	12.275	146	18929	22.779	ug/L		99
106) 1,2-Dibromo-3-chloropr...	13.072	155	1766	25.935	ug/L		98
109) 1,2,4-Trichlorobenzene	13.722	180	5525	9.686	ug/L		98
111) 1,2,3-Trichlorobenzene	14.184	180	4517	8.358	ug/L		97

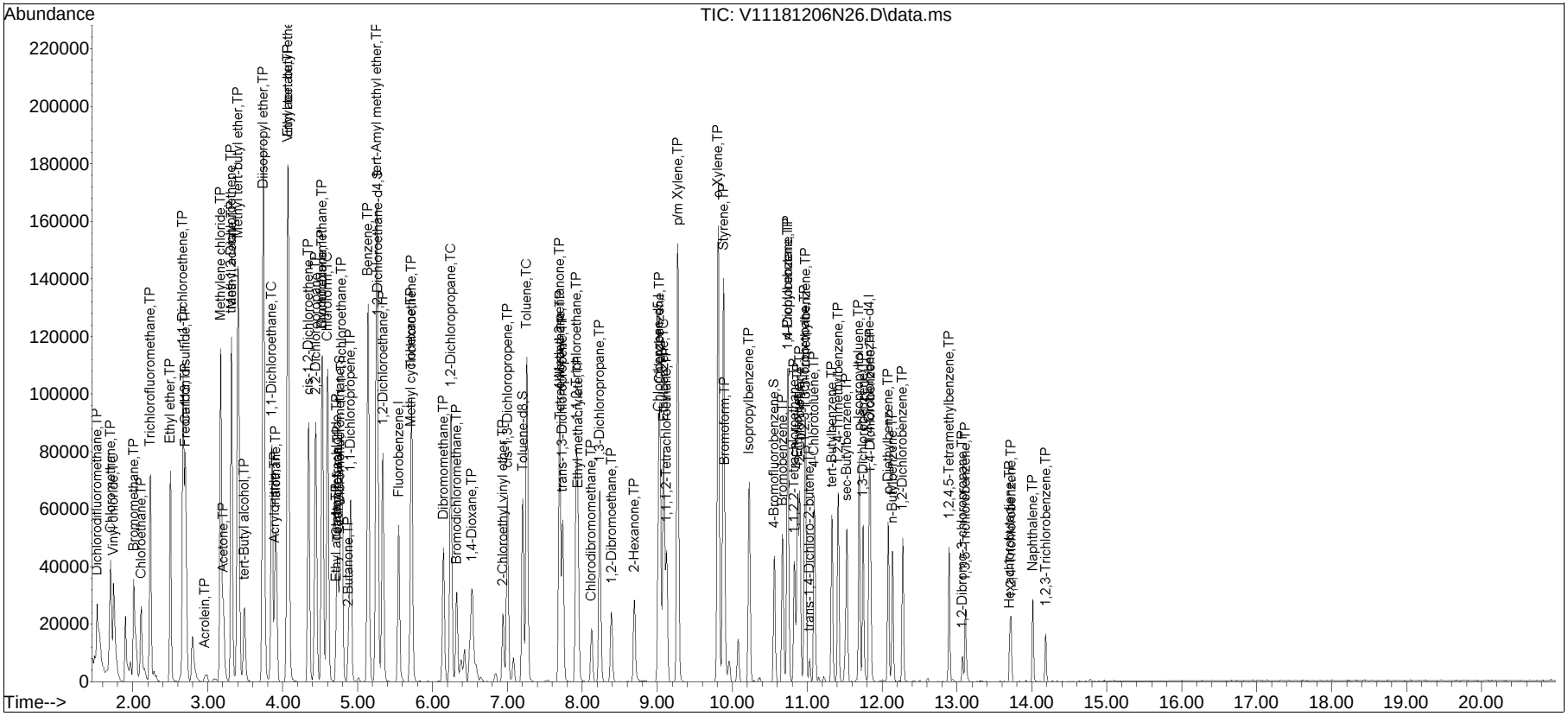
(#) = qualifier out of range (m) = manual integration (+) = signals summed

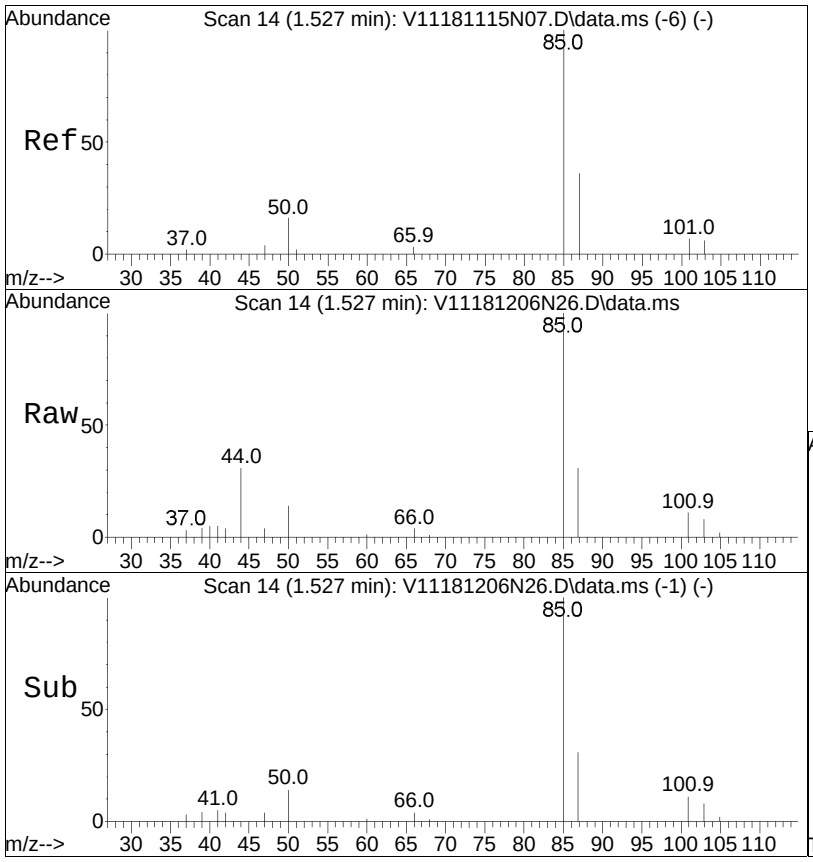
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2018\181206N\
Data File : V11181206N26.D
Acq On : 07 Dec 2018 01:26 am
Operator : VOA111:MV
Sample : WG1186672-6,31,4.69,5,,z2
Misc : WG1186672,ICAL15260
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Dec 07 04:03:08 2018
Quant Method : I:\VOLATILES\VOA111\2018\181206N\V111_181115N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 19 17:40:28 2018
Response via : Initial Calibration

Sub List : 8260-CurveSoil - Megamix plus Diox6N\V11181206N01.D•

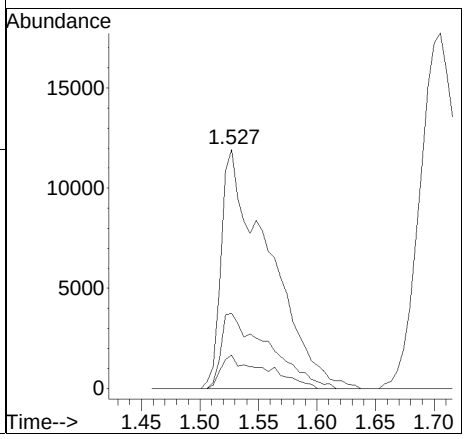


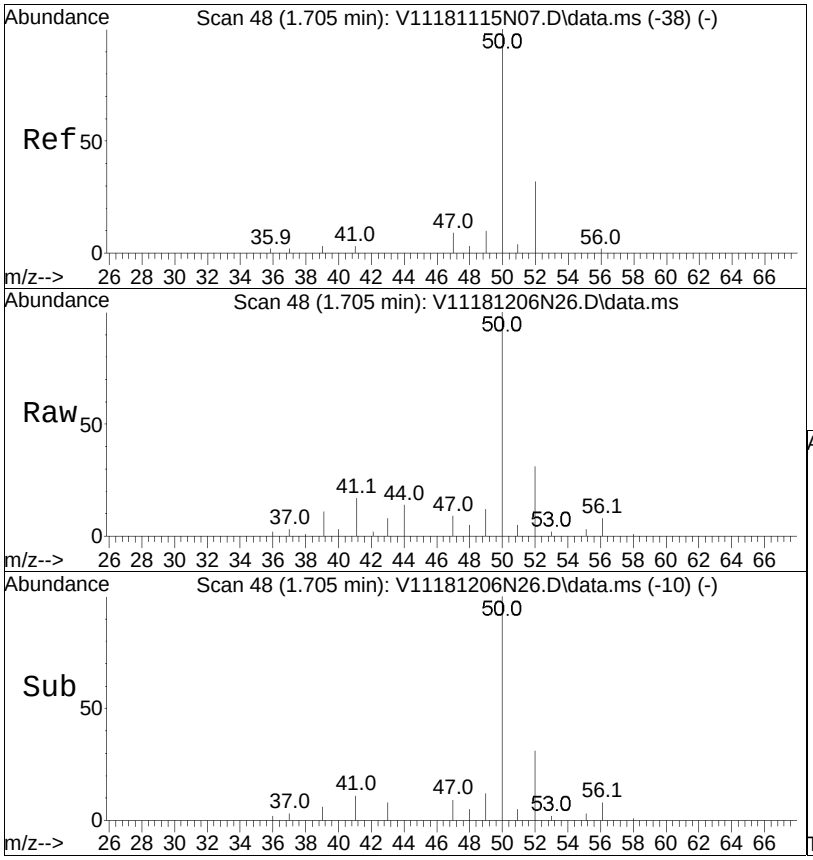


#2
Dichlorodifluoromethane
Concen: 79.83 ug/L
RT: 1.527 min Scan# 14
Delta R.T. 0.000 min
Lab File: V11181206N26.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion: 85 Resp: 33838

Ion	Ratio	Lower	Upper
85	100		
87	31.4	20.7	43.1
50	13.1	9.8	20.3

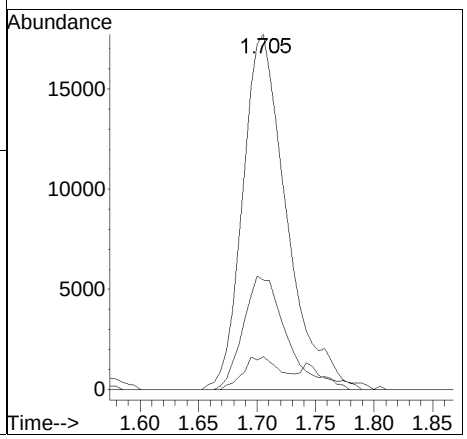


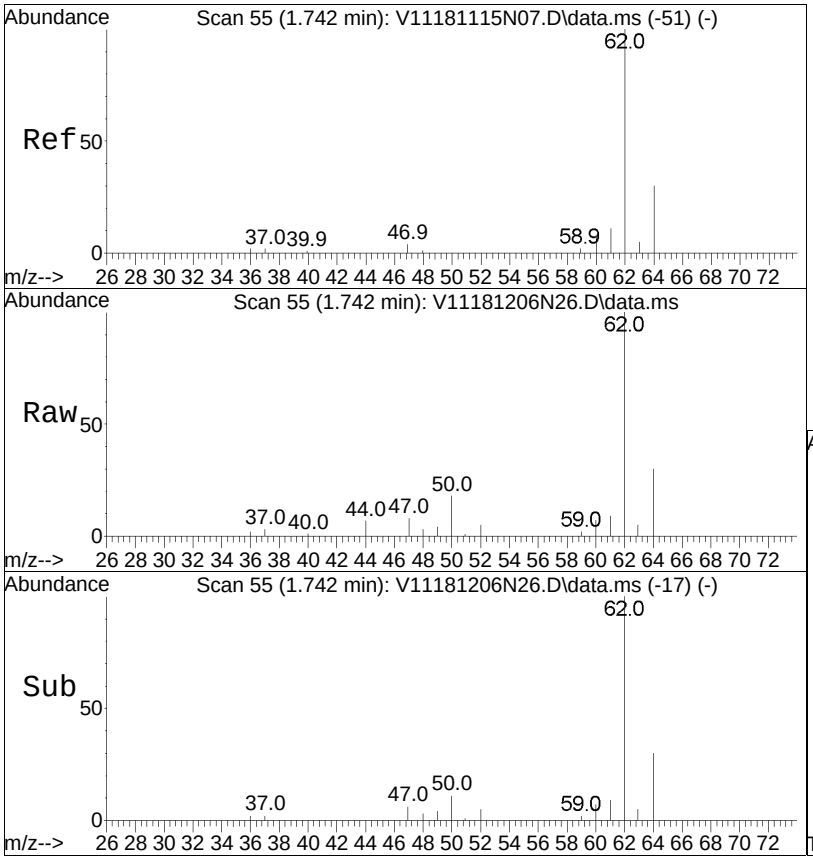


#3
Chloromethane
Concen: 78.57 ug/L
RT: 1.705 min Scan# 48
Delta R.T. 0.000 min
Lab File: V11181206N26.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion: 50 Resp: 46194

Ion	Ratio	Lower	Upper
50	100		
52	31.5	10.9	50.9
47	8.0	0.0	27.2

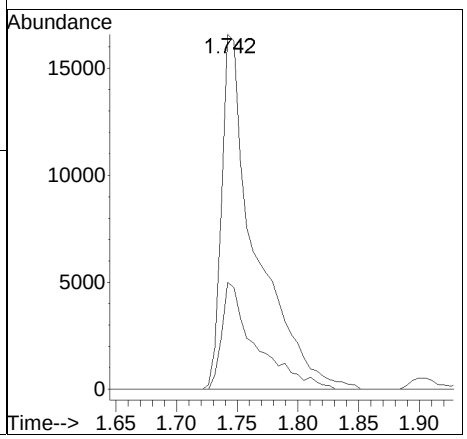


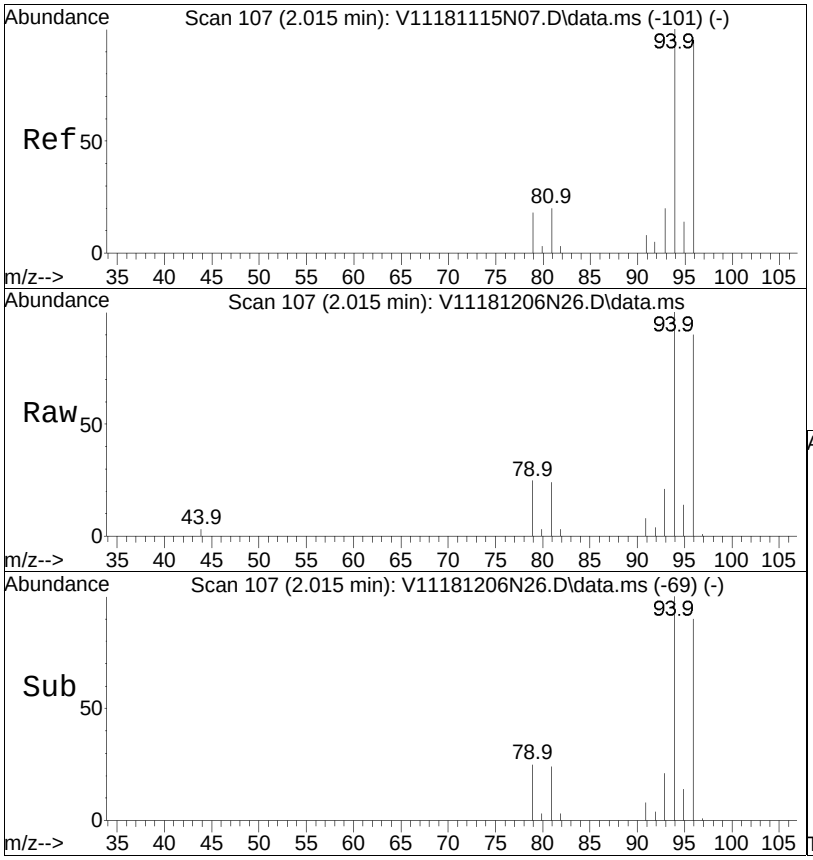


#4
Vinyl chloride
Concen: 77.79 ug/L
RT: 1.742 min Scan# 55
Delta R.T. -0.000 min
Lab File: V11181206N26.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion: 62 Resp: 32157

Ion	Ratio	Lower	Upper
62	100		
64	30.6	9.9	49.9

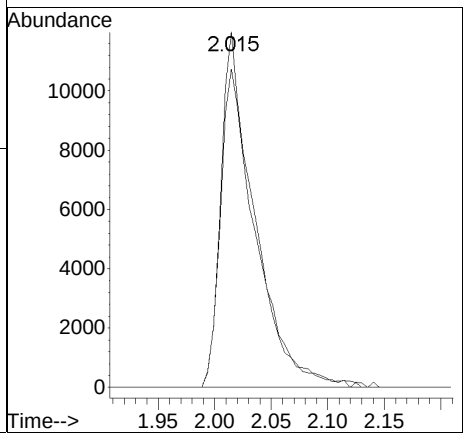


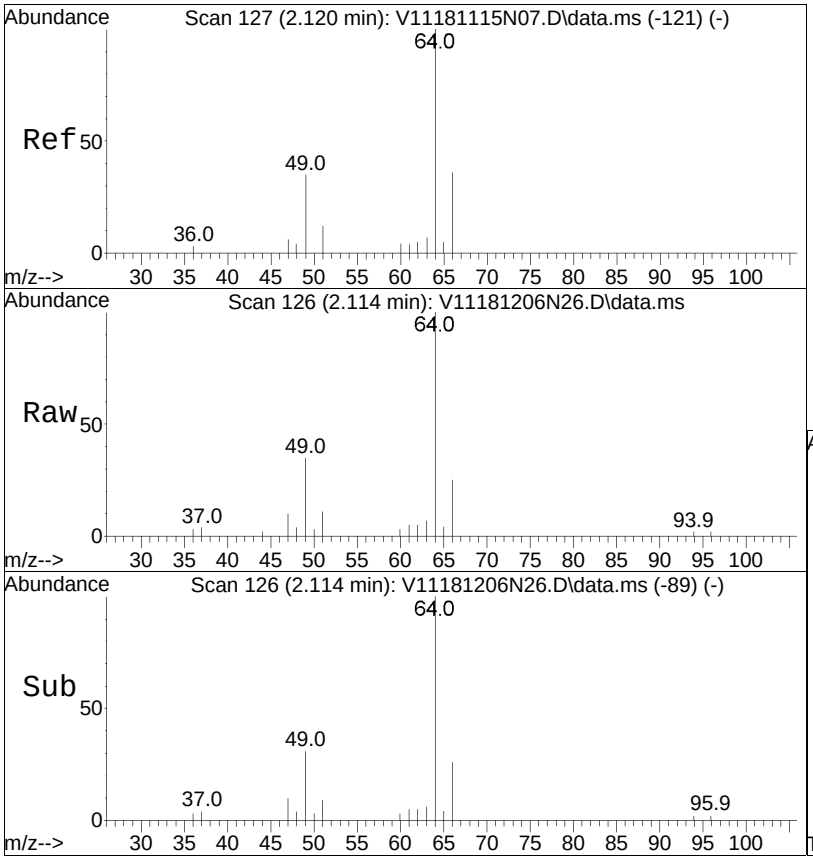


#5
Bromomethane
Concen: 73.26 ug/L
RT: 2.015 min Scan# 107
Delta R.T. -0.000 min
Lab File: V11181206N26.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion: 94 Resp: 24934

Ion	Ratio	Lower	Upper
94	100		
96	93.1	72.6	112.6

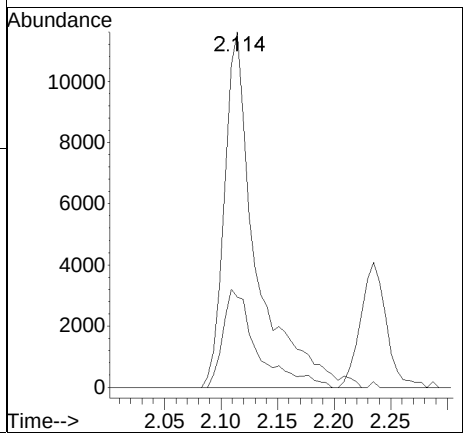


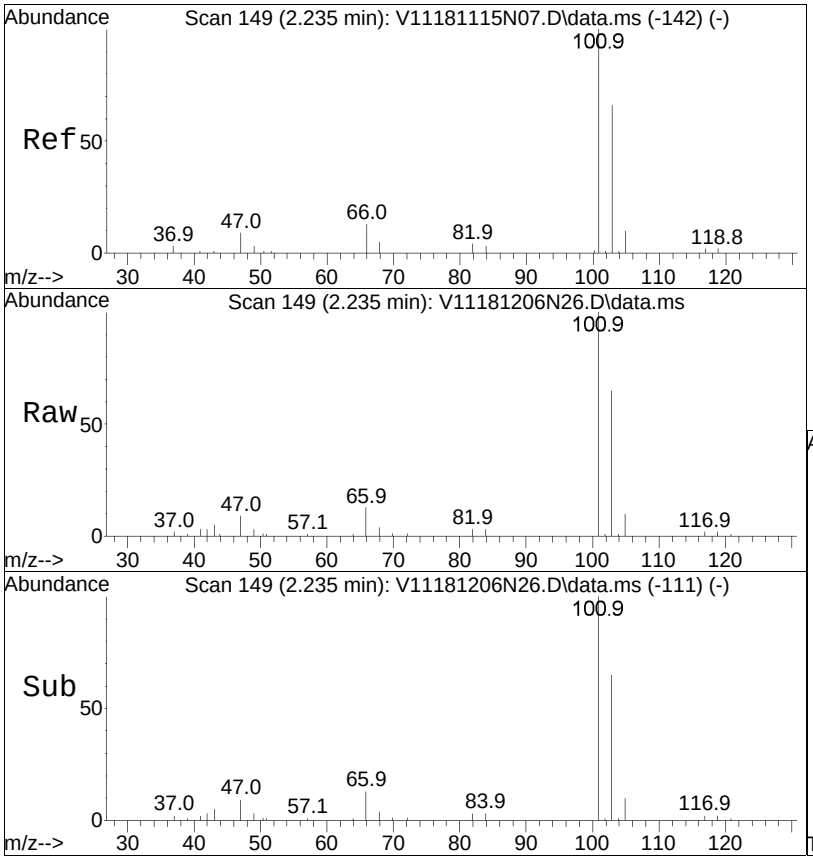


#6
Chloroethane
Concen: 81.08 ug/L
RT: 2.114 min Scan# 126
Delta R.T. -0.006 min
Lab File: V11181206N26.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion: 64 Resp: 22698

Ion	Ratio	Lower	Upper
64	100		
66	29.9	10.2	50.2

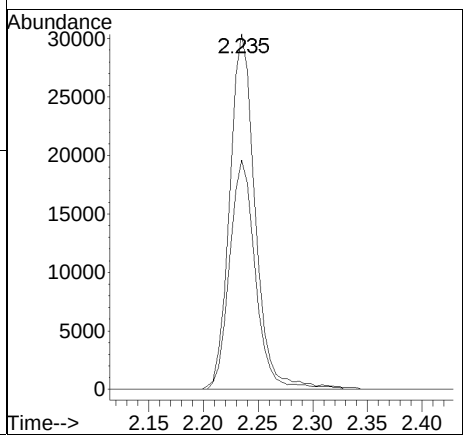


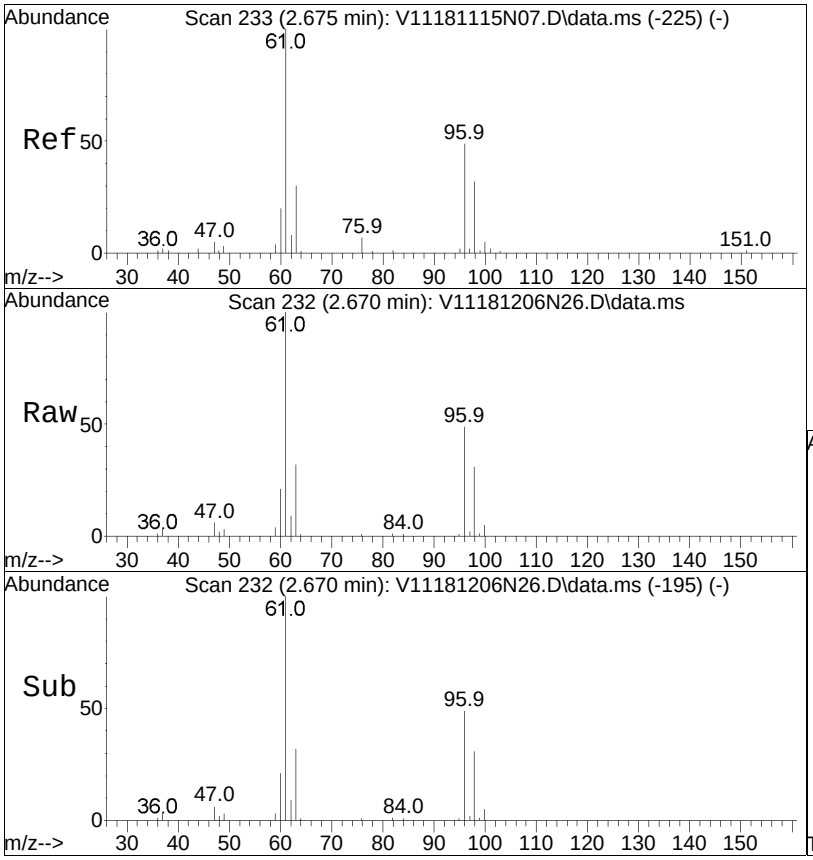


#7
Trichlorofluoromethane
Concen: 58.84 ug/L
RT: 2.235 min Scan# 149
Delta R.T. -0.000 min
Lab File: V11181206N26.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion:101 Resp: 49602

Ion	Ratio	Lower	Upper
101	100		
103	65.2	51.8	77.6

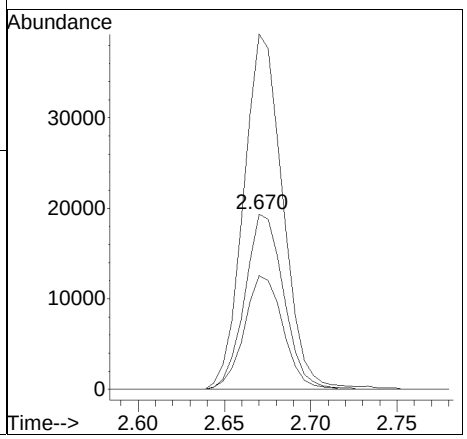


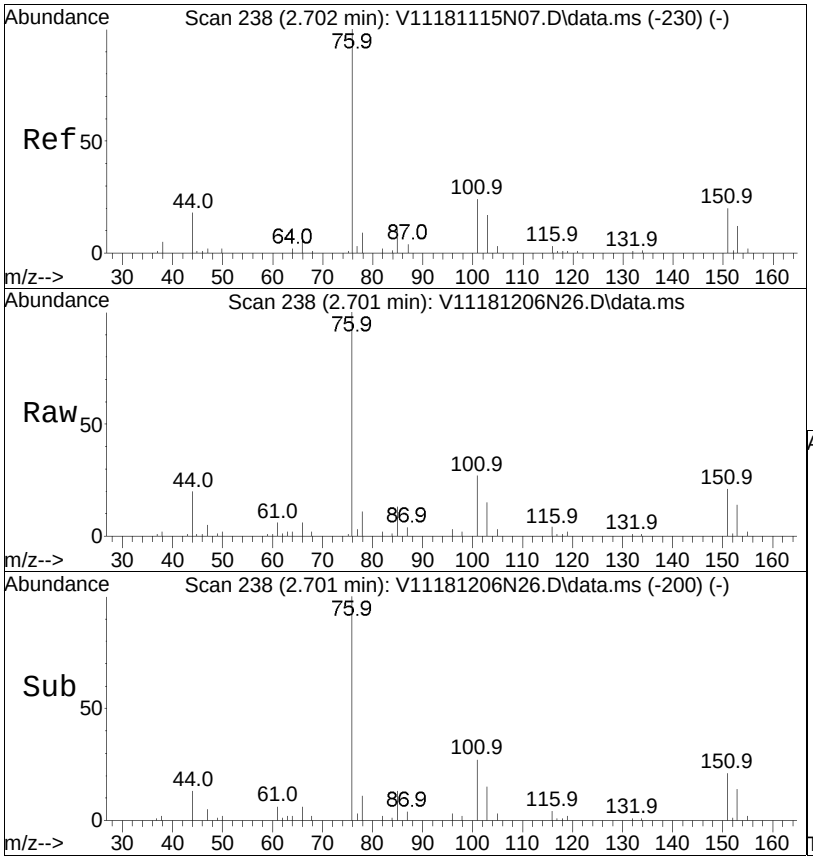


#10
1,1-Dichloroethene
Concen: 72.69 ug/L
RT: 2.670 min Scan# 232
Delta R.T. -0.005 min
Lab File: V11181206N26.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion: 96 Resp: 30388

Ion	Ratio	Lower	Upper
96	100		
61	204.7	157.7	236.5
63	64.8	47.9	71.9

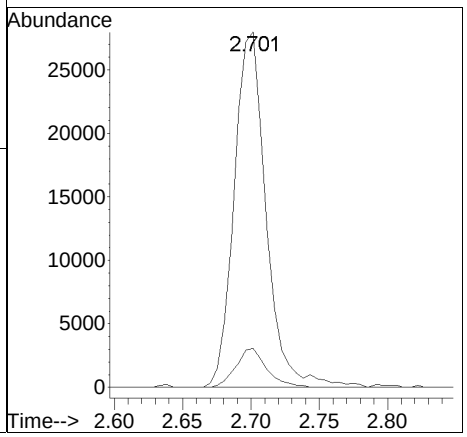


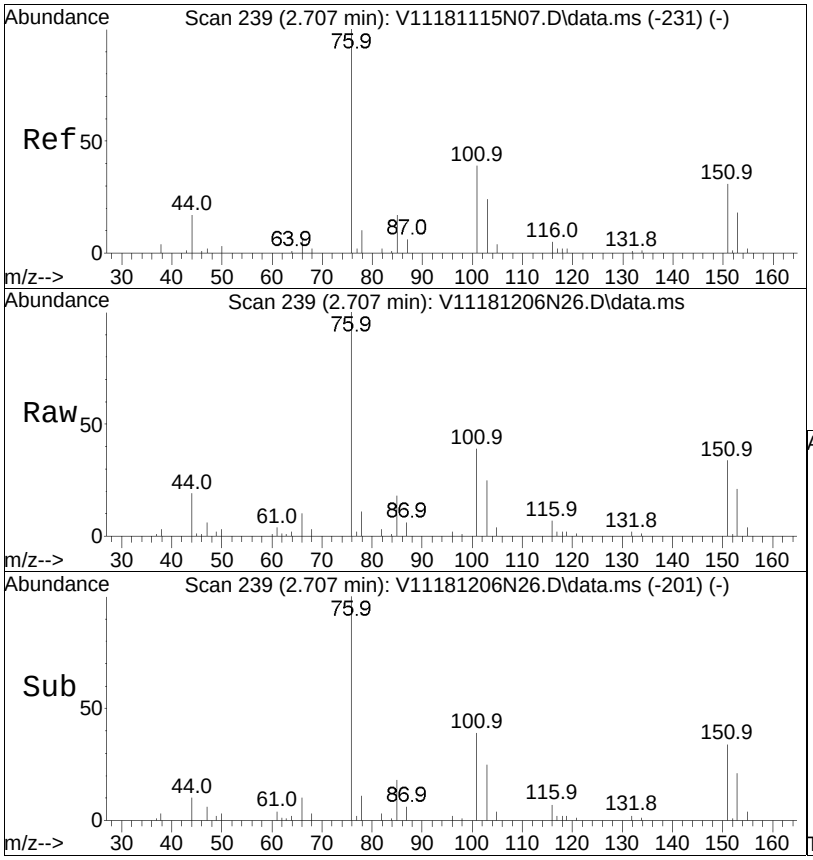


#11
Carbon disulfide
Concen: 35.22 ug/L
RT: 2.701 min Scan# 238
Delta R.T. -0.001 min
Lab File: V11181206N26.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion: 76 Resp: 45706

Ion	Ratio	Lower	Upper
76	100		
78	10.6	6.4	13.4

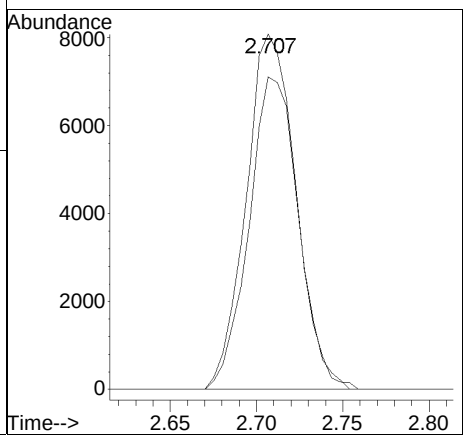


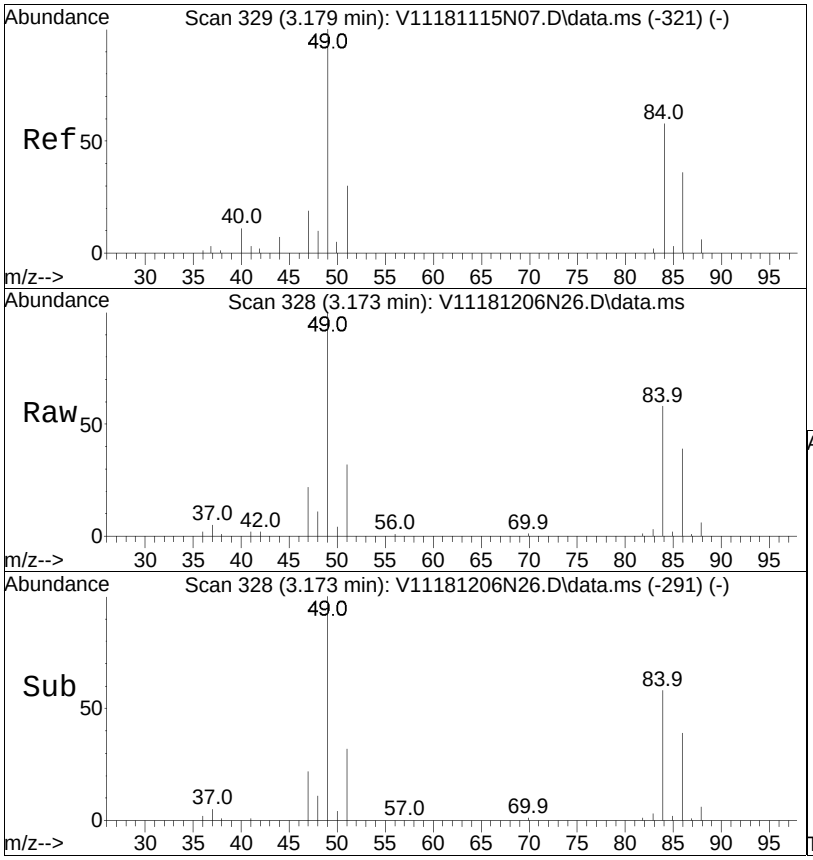


#12
Freon-113
Concen: 36.13 ug/L
RT: 2.707 min Scan# 239
Delta R.T. -0.000 min
Lab File: V11181206N26.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion:101 Resp: 16241

Ion	Ratio	Lower	Upper
101	100		
151	87.4	62.2	93.4

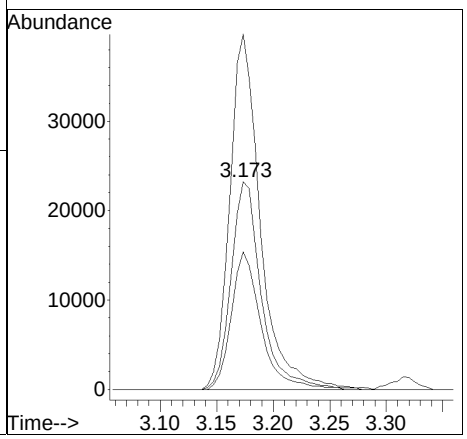


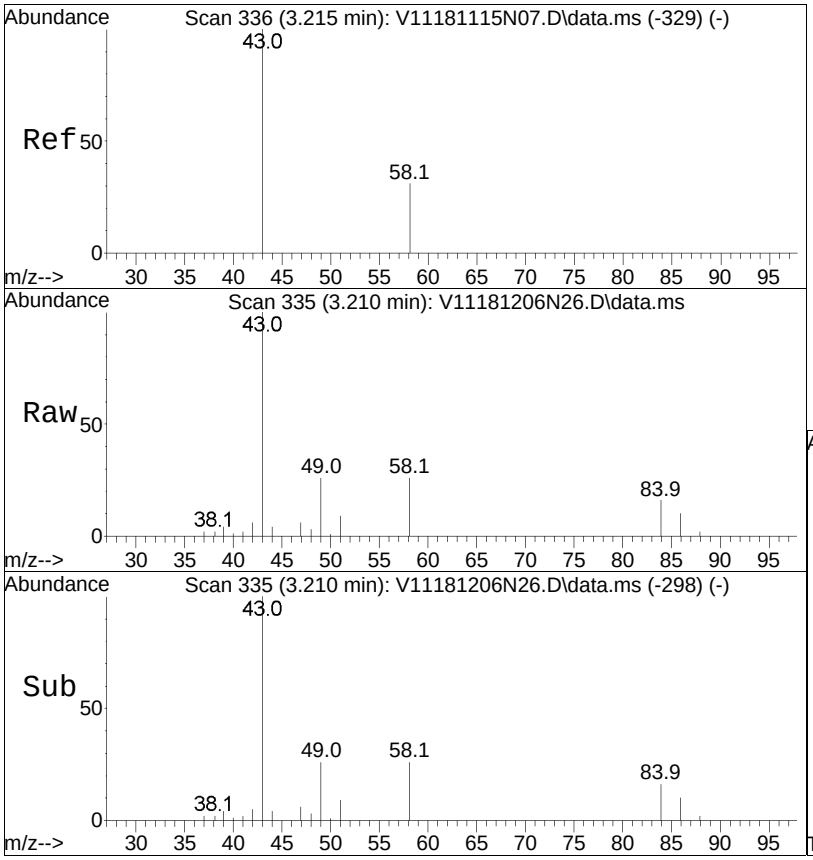


#15
Methylene chloride
Concen: 75.70 ug/L
RT: 3.173 min Scan# 328
Delta R.T. -0.006 min
Lab File: V11181206N26.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion: 84 Resp: 43409

Ion	Ratio	Lower	Upper
84	100		
86	64.7	41.1	85.3
49	172.7	124.2	258.0

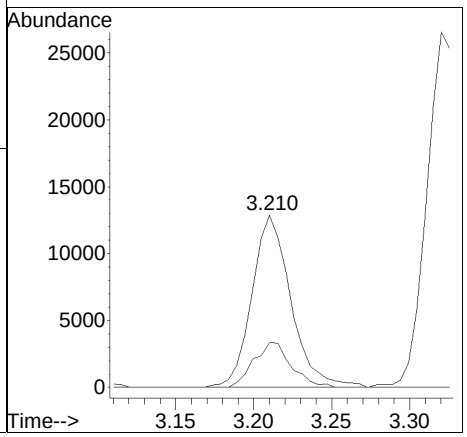


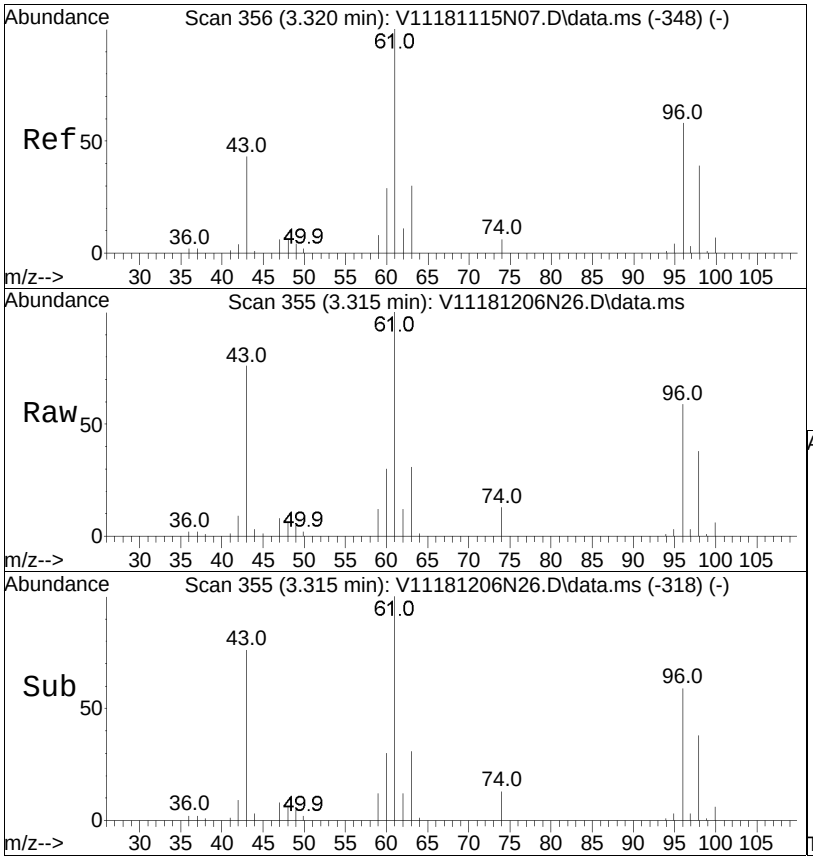


#17
Acetone
Concen: 136.03 ug/L
RT: 3.210 min Scan# 335
Delta R.T. -0.005 min
Lab File: V11181206N26.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion: 43 Resp: 22397

Ion	Ratio	Lower	Upper
43	100		
58	25.1	20.8	31.2

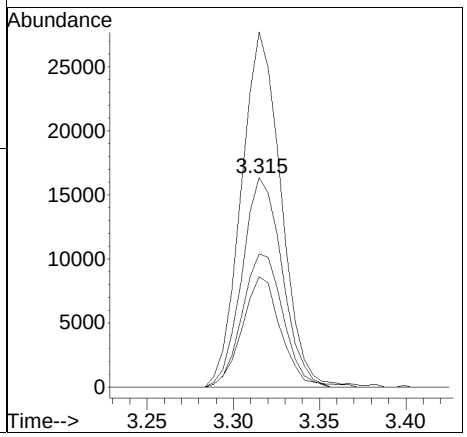


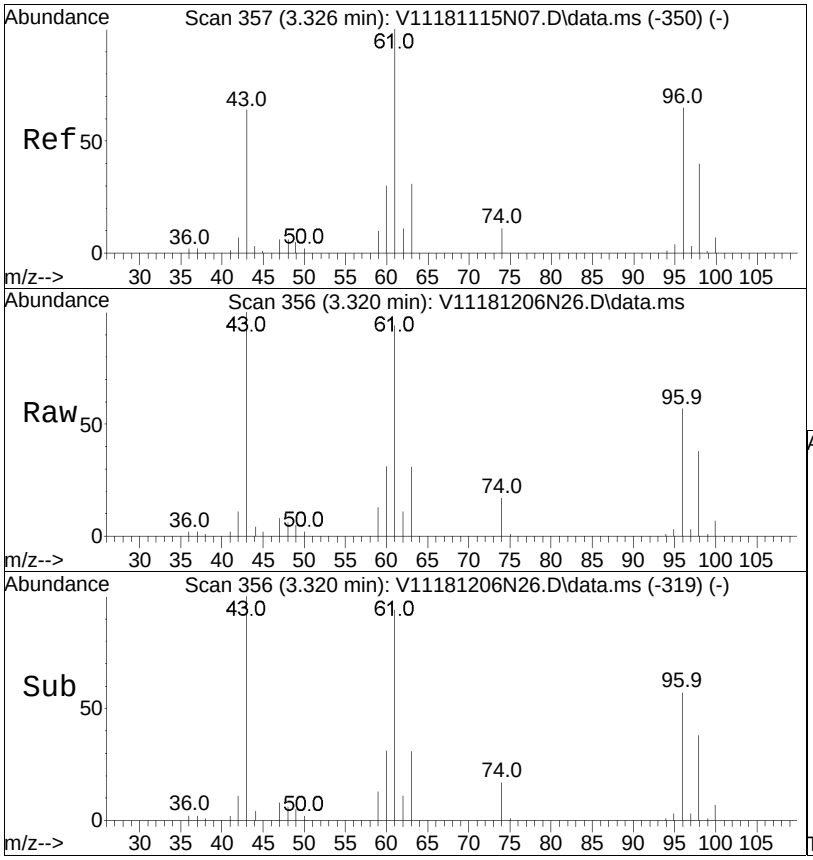


#18
trans-1,2-Dichloroethene
Concen: 50.46 ug/L
RT: 3.315 min Scan# 355
Delta R.T. -0.005 min
Lab File: V11181206N26.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion: 96 Resp: 26737

Ion	Ratio	Lower	Upper
96	100		
61	167.1	111.1	230.8
98	64.0	41.8	86.8
63	50.2	33.3	69.1

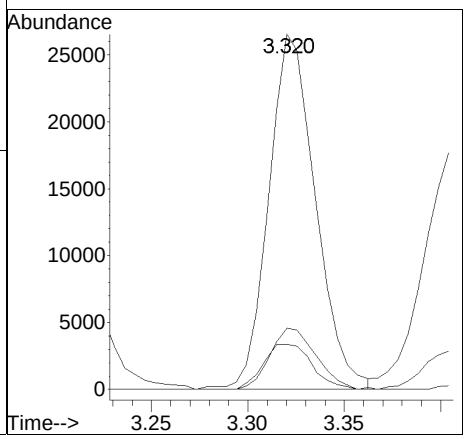


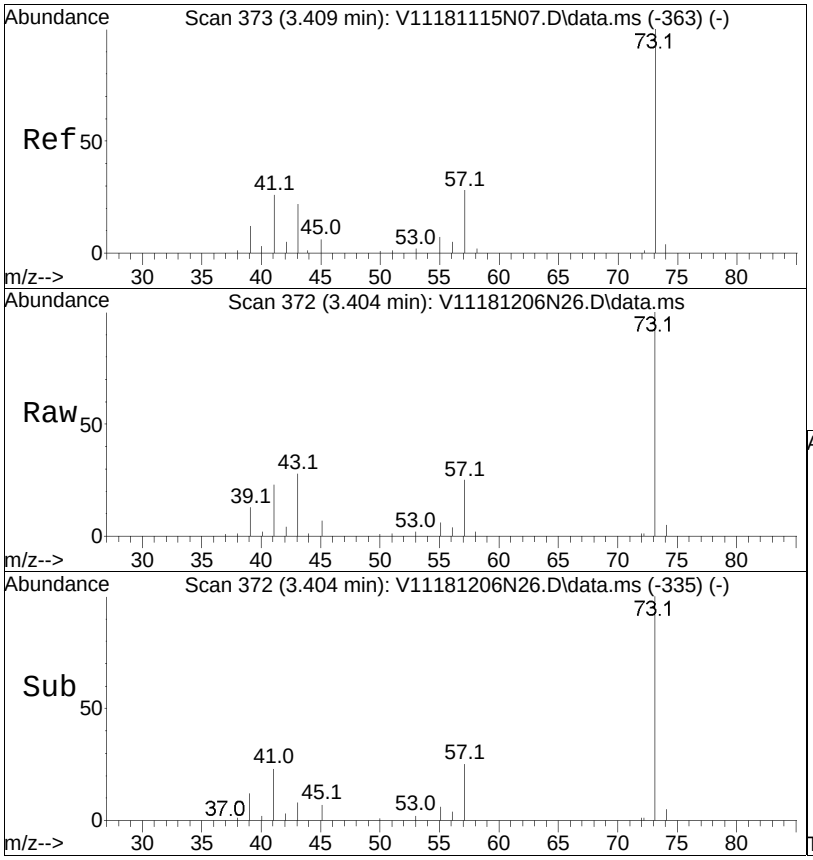


#19
Methyl acetate
Concen: 98.03 ug/L
RT: 3.320 min Scan# 356
Delta R.T. -0.006 min
Lab File: V11181206N26.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion: 43 Resp: 44780

Ion	Ratio	Lower	Upper
43	100		
74	17.0	11.3	16.9#
59	13.2	10.4	15.6

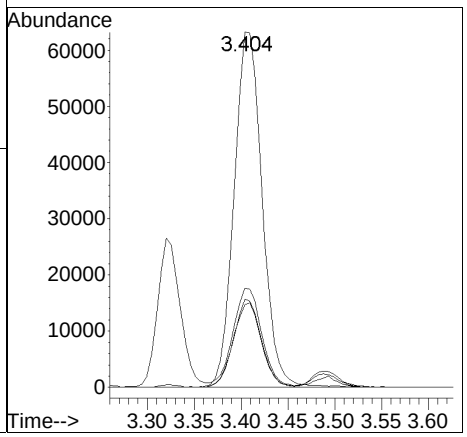


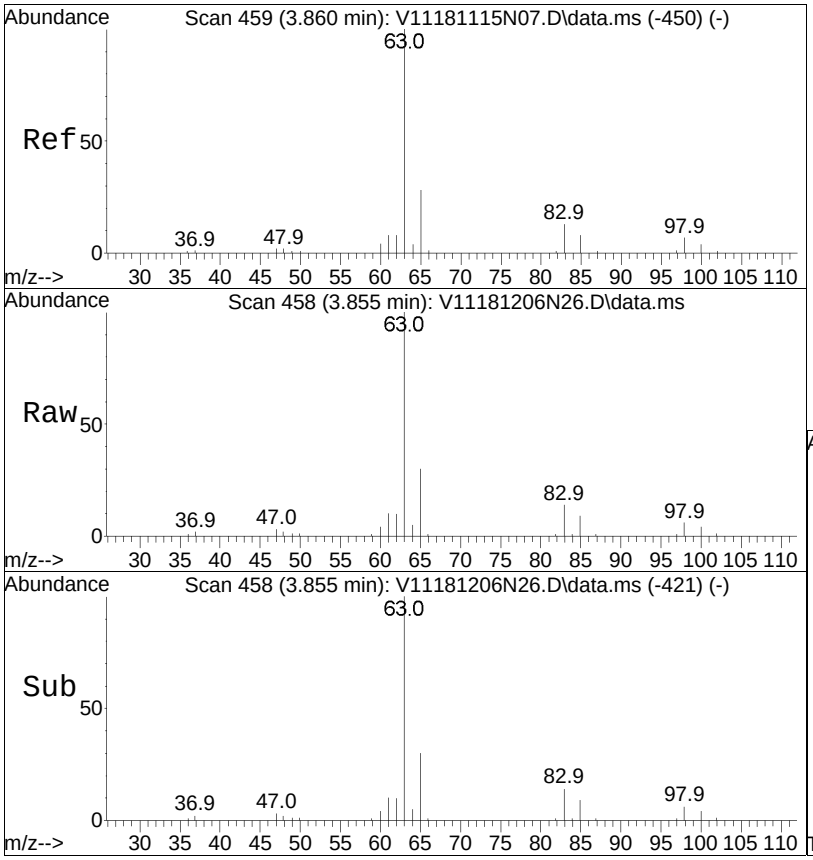


#20
Methyl tert-butyl ether
Concen: 77.10 ug/L
RT: 3.404 min Scan# 372
Delta R.T. -0.005 min
Lab File: V11181206N26.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion: 73 Resp: 132322

Ion	Ratio	Lower	Upper
73	100		
57	24.5	19.6	40.6
43	28.9	18.5	38.3
41	24.1	20.3	42.1

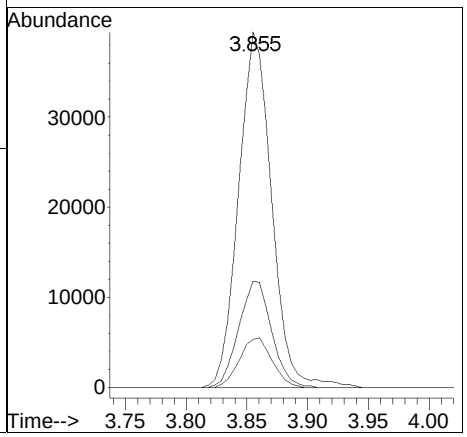


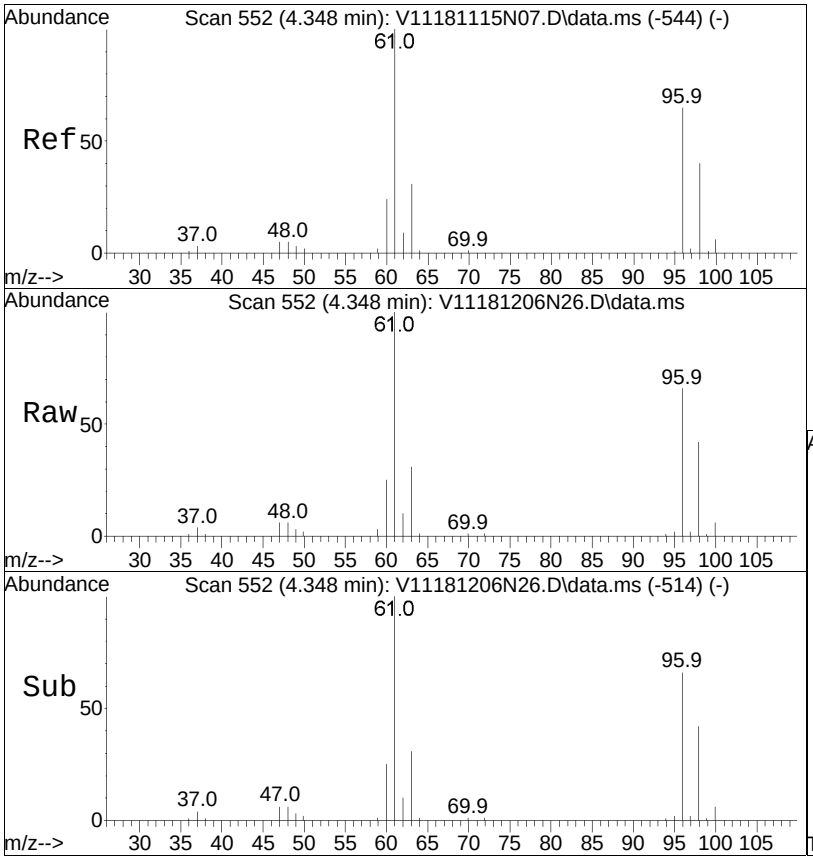


#23
1,1-Dichloroethane
Concen: 63.88 ug/L
RT: 3.855 min Scan# 458
Delta R.T. -0.005 min
Lab File: V11181206N26.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion: 63 Resp: 74636

Ion	Ratio	Lower	Upper
63	100		
65	29.7	9.0	49.0
83	13.7	0.0	31.4

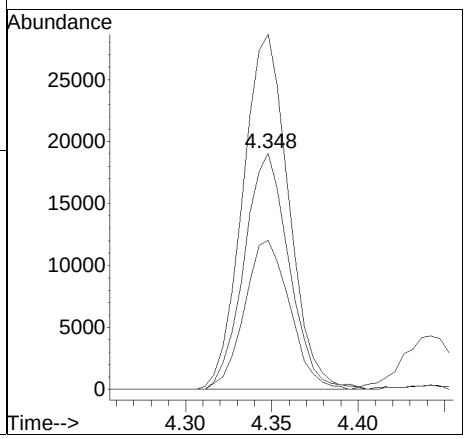


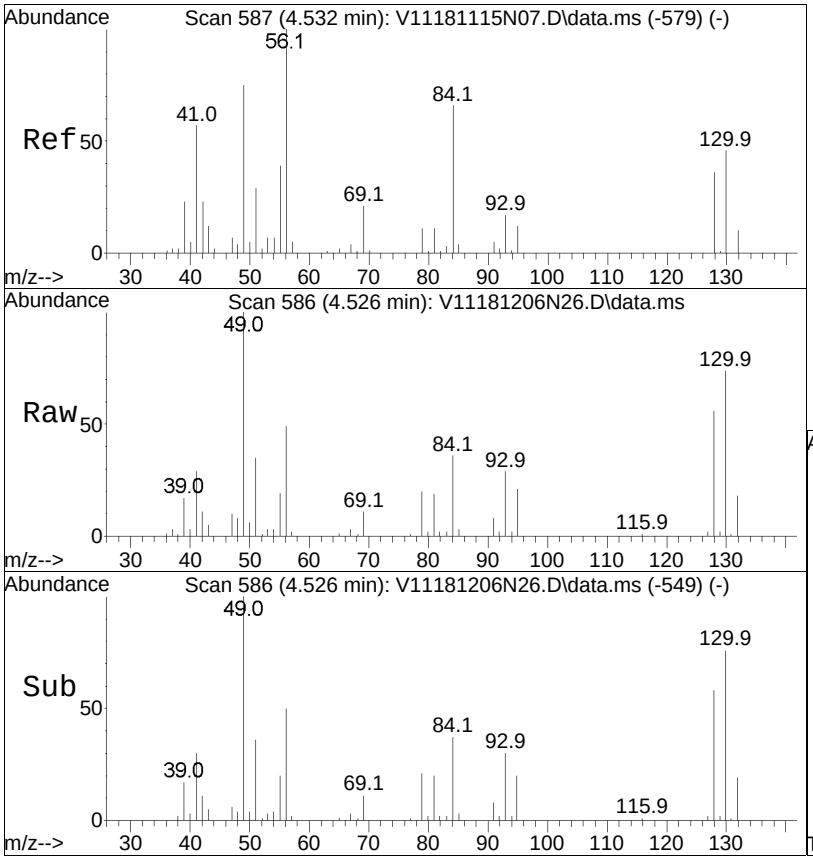


#28
cis-1,2-Dichloroethene
Concen: 54.16 ug/L
RT: 4.348 min Scan# 552
Delta R.T. -0.000 min
Lab File: V11181206N26.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion: 96 Resp: 34466

Ion	Ratio	Lower	Upper
96	100		
61	153.6	126.3	189.5
98	63.9	51.0	76.6

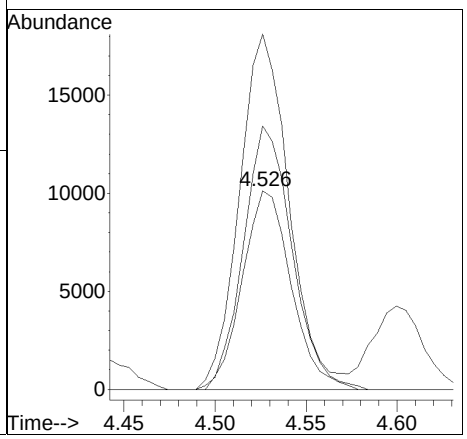


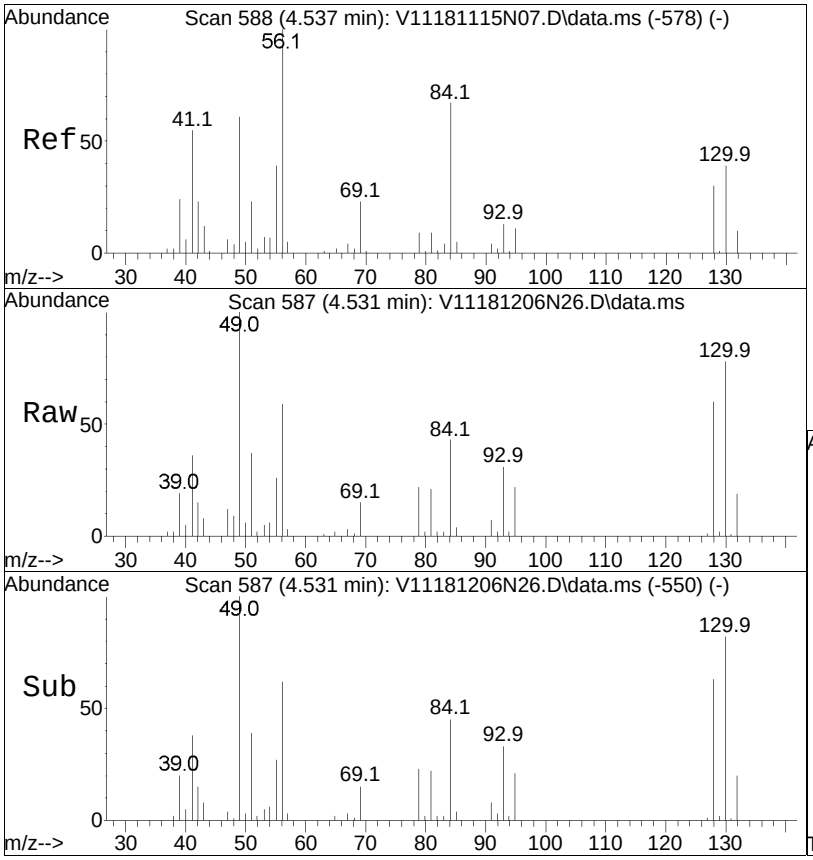


#30
Bromochloromethane
Concen: 60.82 ug/L
RT: 4.526 min Scan# 586
Delta R.T. -0.006 min
Lab File: V11181206N26.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion:128 Resp: 18923

Ion	Ratio	Lower	Upper
128	100		
49	182.0	201.3	301.9#
130	132.1	106.2	159.2

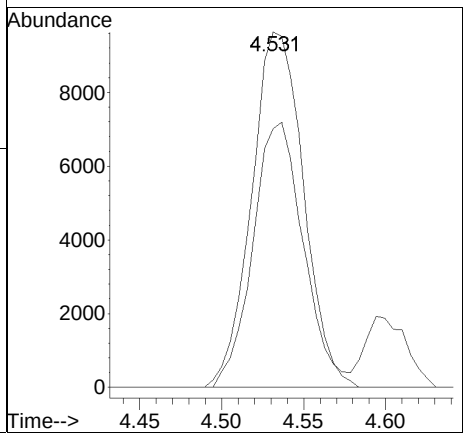


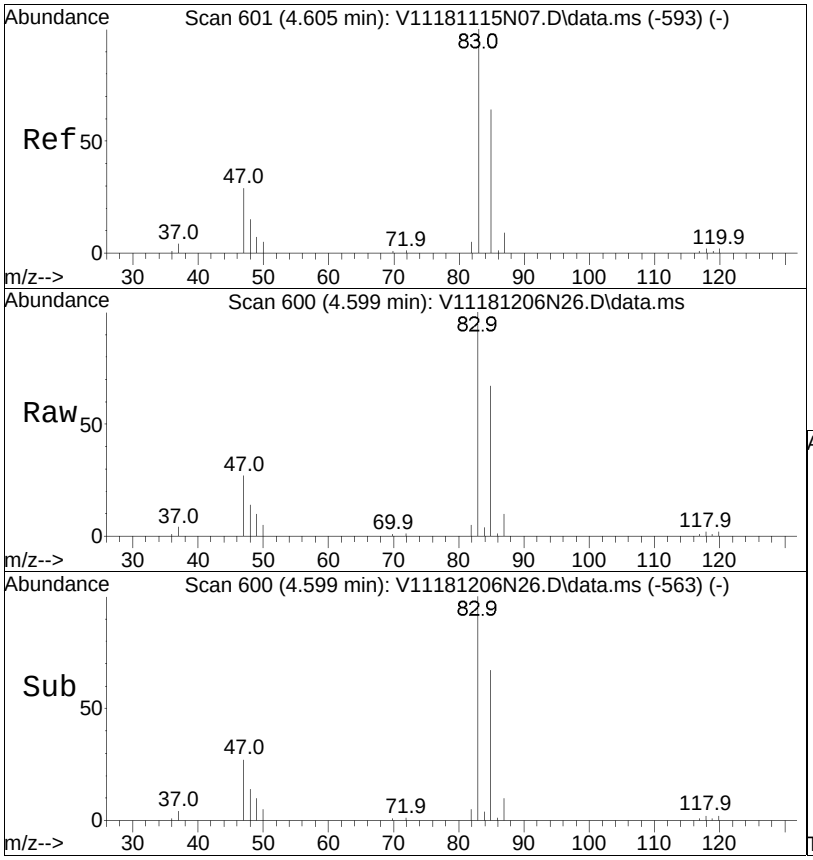


#31
Cyclohexane
Concen: 20.28 ug/L
RT: 4.531 min Scan# 587
Delta R.T. -0.006 min
Lab File: V11181206N26.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion: 56 Resp: 21281

Ion	Ratio	Lower	Upper
56	100		
84	72.9	40.5	84.1

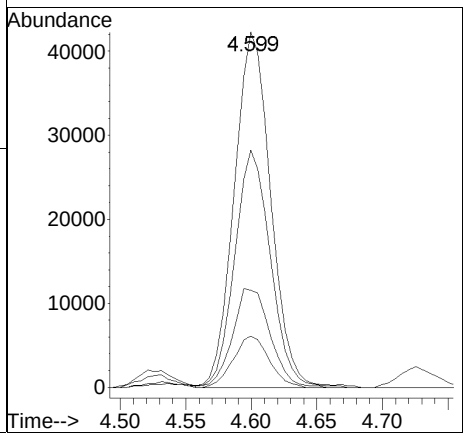


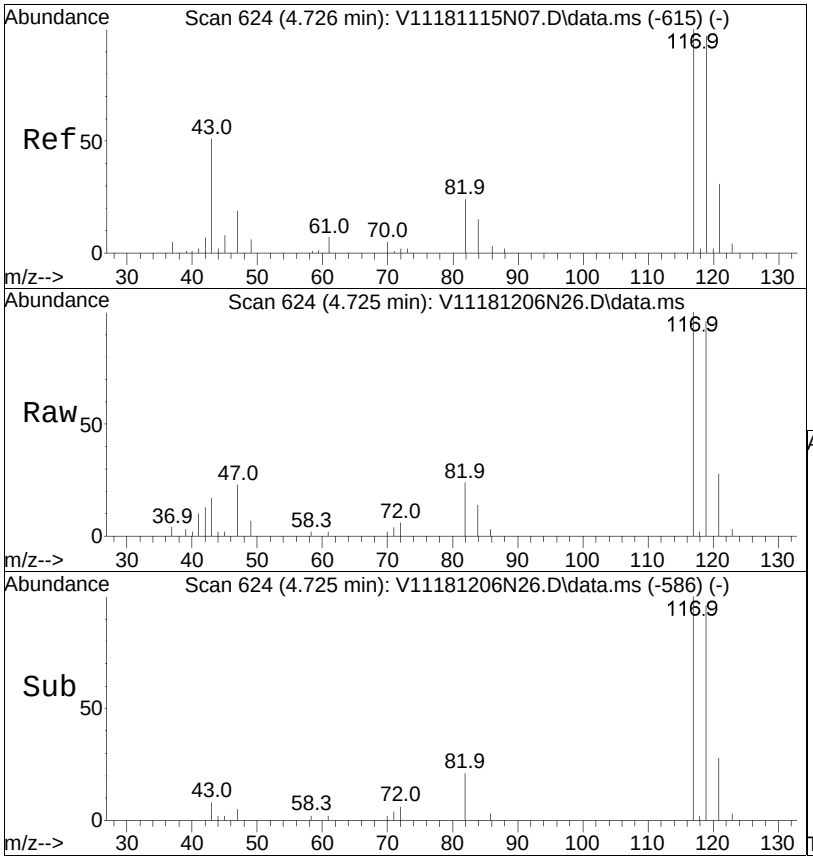


#32
Chloroform
Concen: 69.98 ug/L
RT: 4.599 min Scan# 600
Delta R.T. -0.006 min
Lab File: V11181206N26.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion: 83 Resp: 81979

Ion	Ratio	Lower	Upper
83	100		
85	65.4	41.9	87.1
47	28.6	20.9	43.3
48	14.1	9.9	20.5

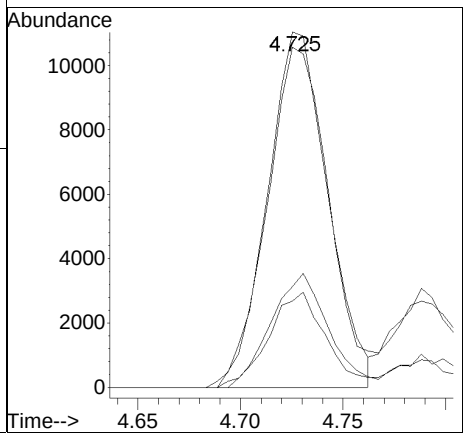


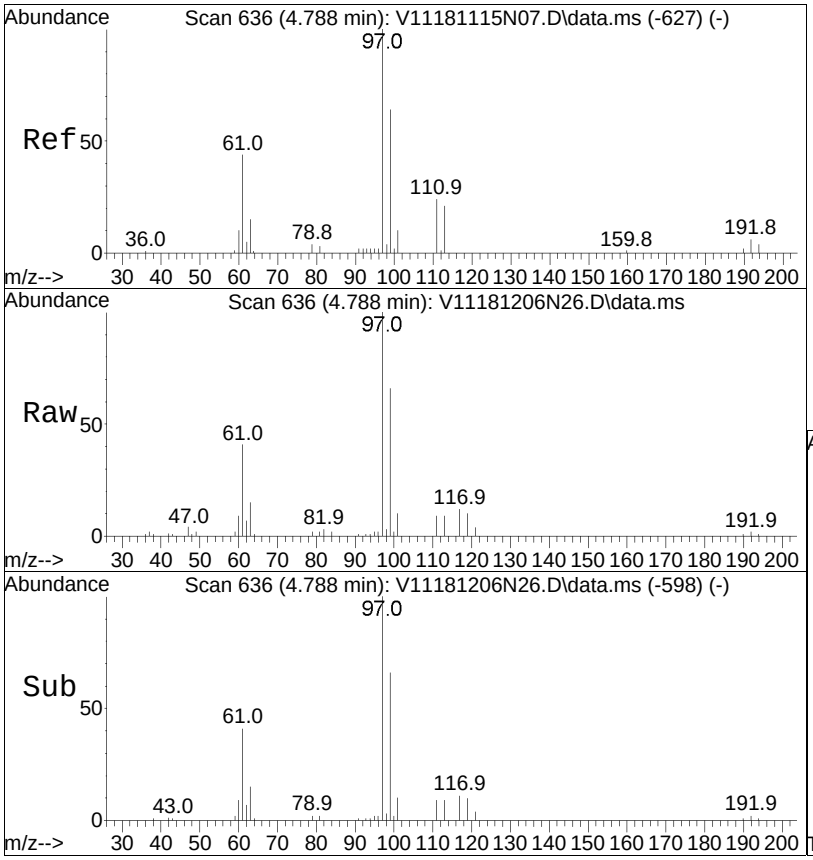


#34
Carbon tetrachloride
Concen: 25.89 ug/L
RT: 4.725 min Scan# 624
Delta R.T. -0.001 min
Lab File: V11181206N26.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion:117 Resp: 22692

Ion	Ratio	Lower	Upper
117	100		
119	98.5	64.0	132.8
121	30.6	20.7	42.9
82	25.1	16.3	33.8

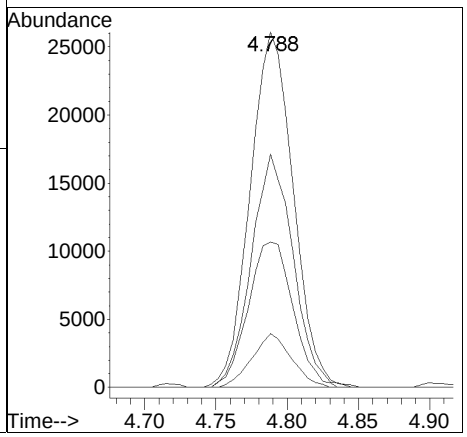


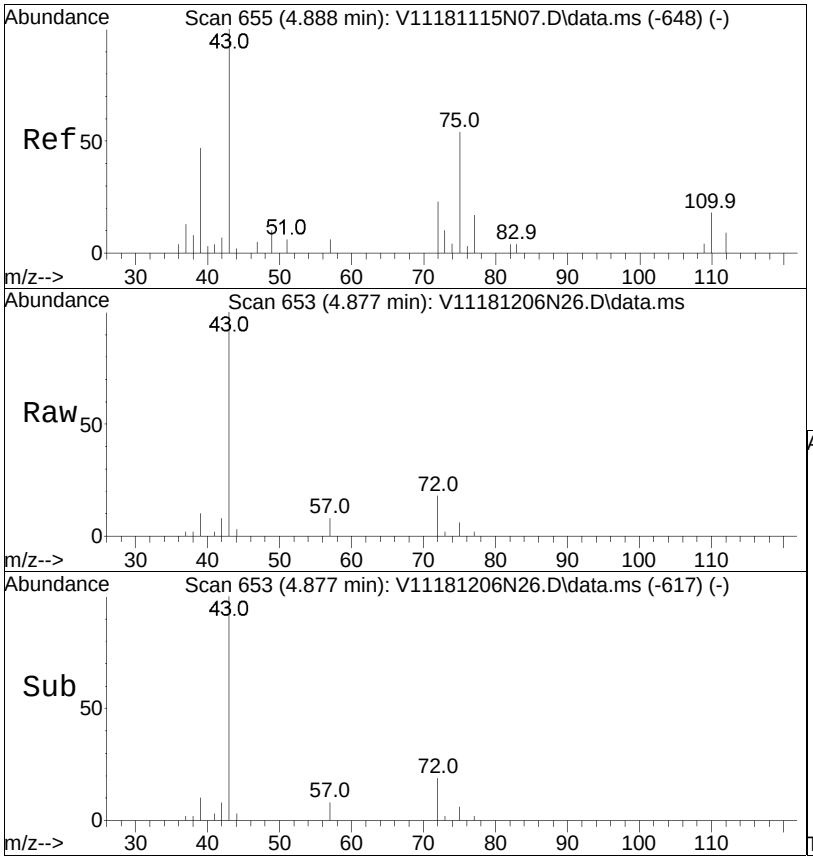


#37
1,1,1-Trichloroethane
Concen: 52.62 ug/L
RT: 4.788 min Scan# 636
Delta R.T. 0.000 min
Lab File: V11181206N26.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion: 97 Resp: 54956

Ion	Ratio	Lower	Upper
97	100		
99	63.8	41.5	86.1
61	42.7	32.2	67.0
63	13.9	10.1	20.9

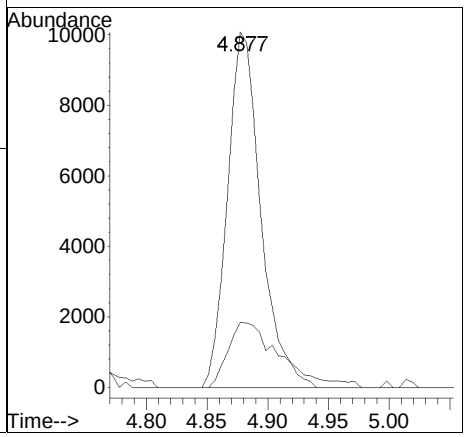


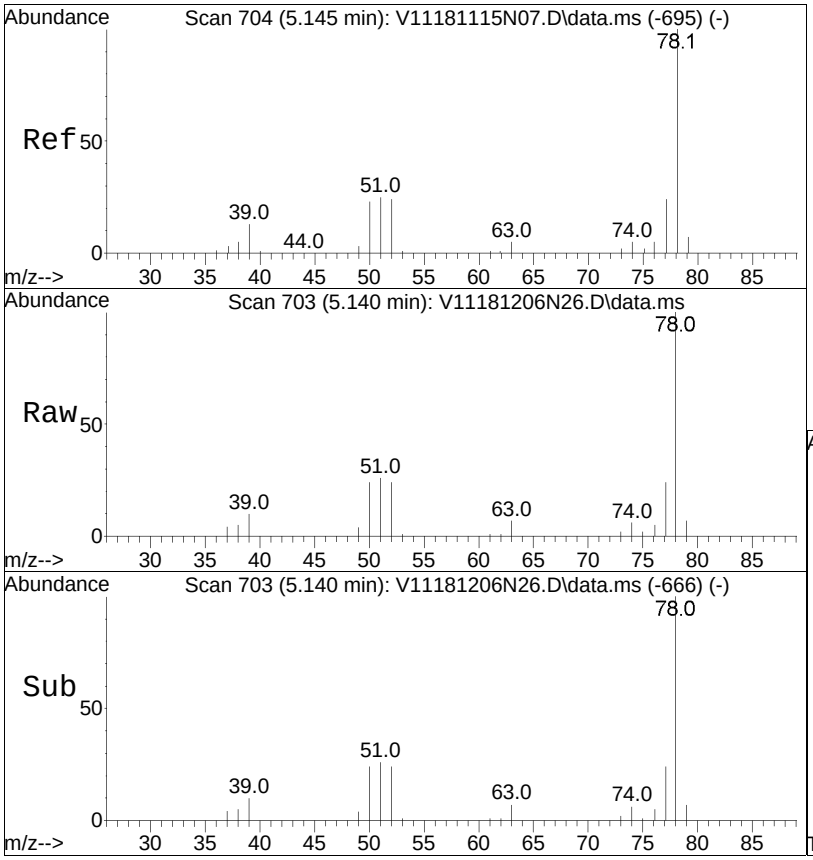


#39
2-Butanone
Concen: 72.05 ug/L
RT: 4.877 min Scan# 653
Delta R.T. -0.011 min
Lab File: V11181206N26.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion: 43 Resp: 19767

Ion	Ratio	Lower	Upper
43	100		
72	25.1	21.0	31.6

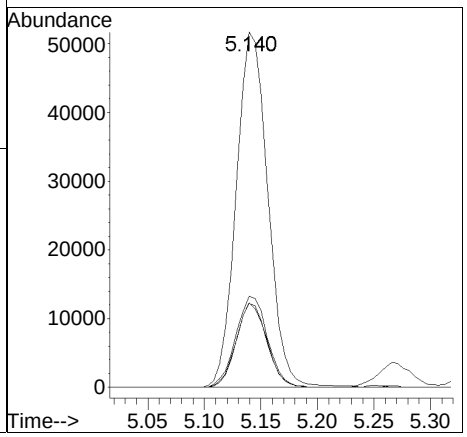


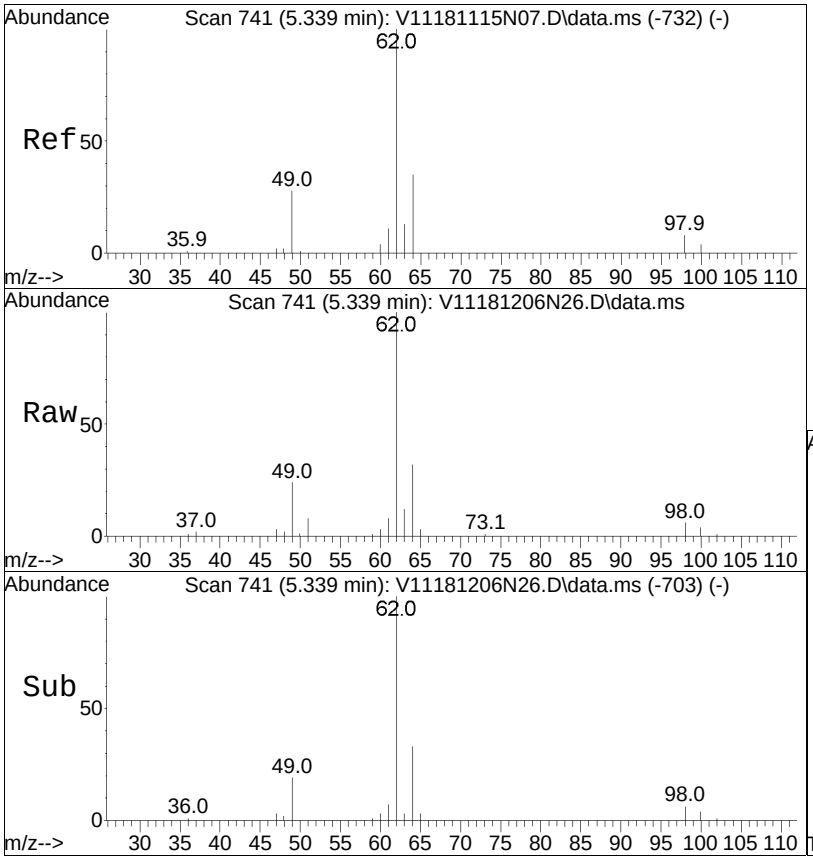


#41
Benzene
Concen: 45.90 ug/L
RT: 5.140 min Scan# 703
Delta R.T. -0.005 min
Lab File: V11181206N26.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion: 78 Resp: 100912

Ion	Ratio	Lower	Upper
78	100		
77	22.9	15.1	31.3
51	25.7	15.8	32.8
52	23.0	15.6	32.4

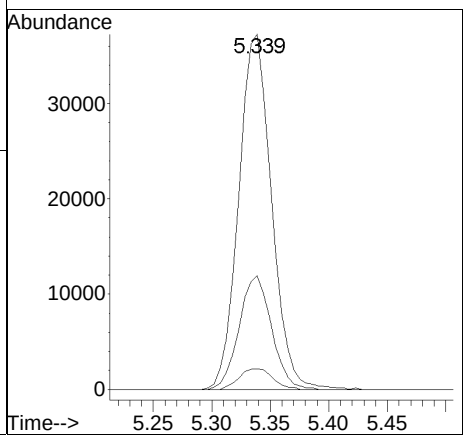


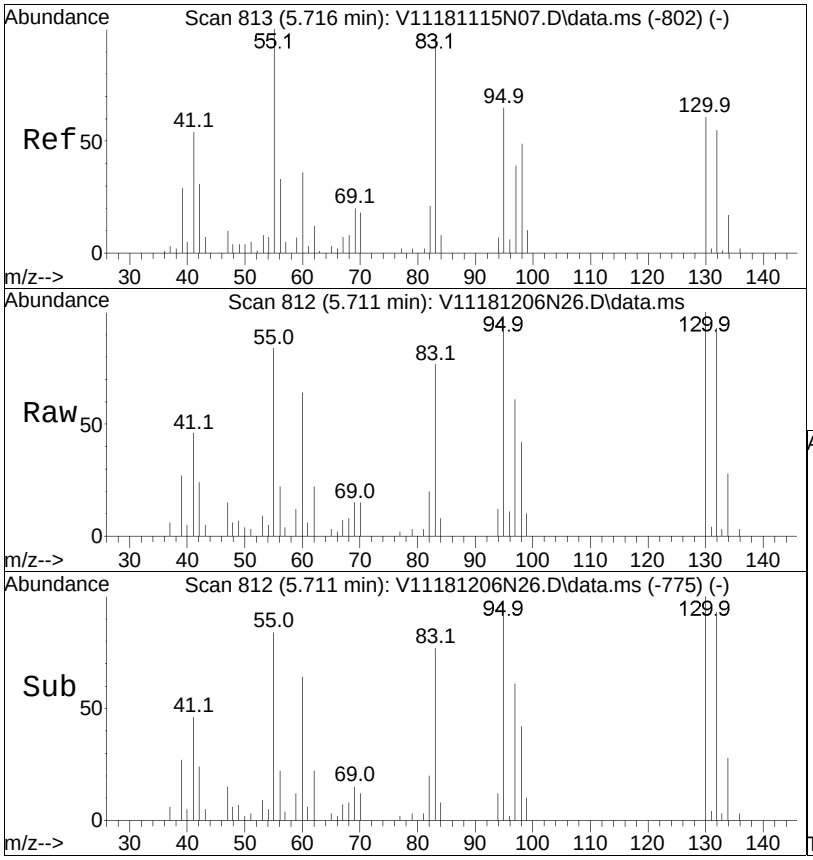


#44
1,2-Dichloroethane
Concen: 68.11 ug/L
RT: 5.339 min Scan# 741
Delta R.T. -0.000 min
Lab File: V11181206N26.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion: 62 Resp: 72656

Ion	Ratio	Lower	Upper
62	100		
64	31.6	11.1	51.1
98	6.0	0.0	28.0

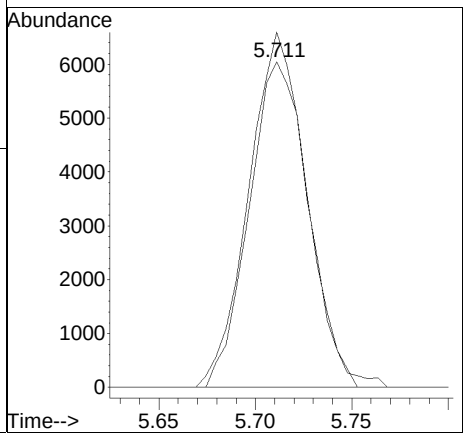


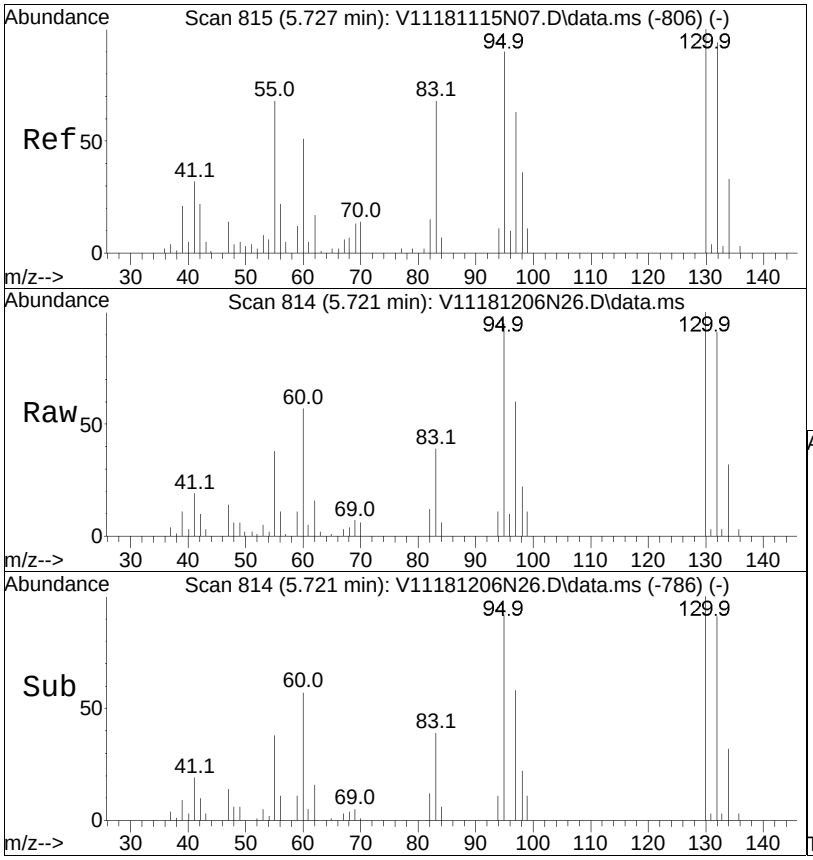


#47
Methyl cyclohexane
Concen: 15.42 ug/L
RT: 5.711 min Scan# 812
Delta R.T. -0.005 min
Lab File: V11181206N26.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion: 83 Resp: 12905

Ion	Ratio	Lower	Upper
83	100		
55	107.4	88.1	132.1

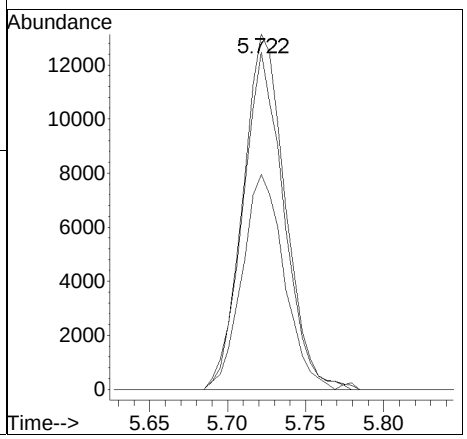


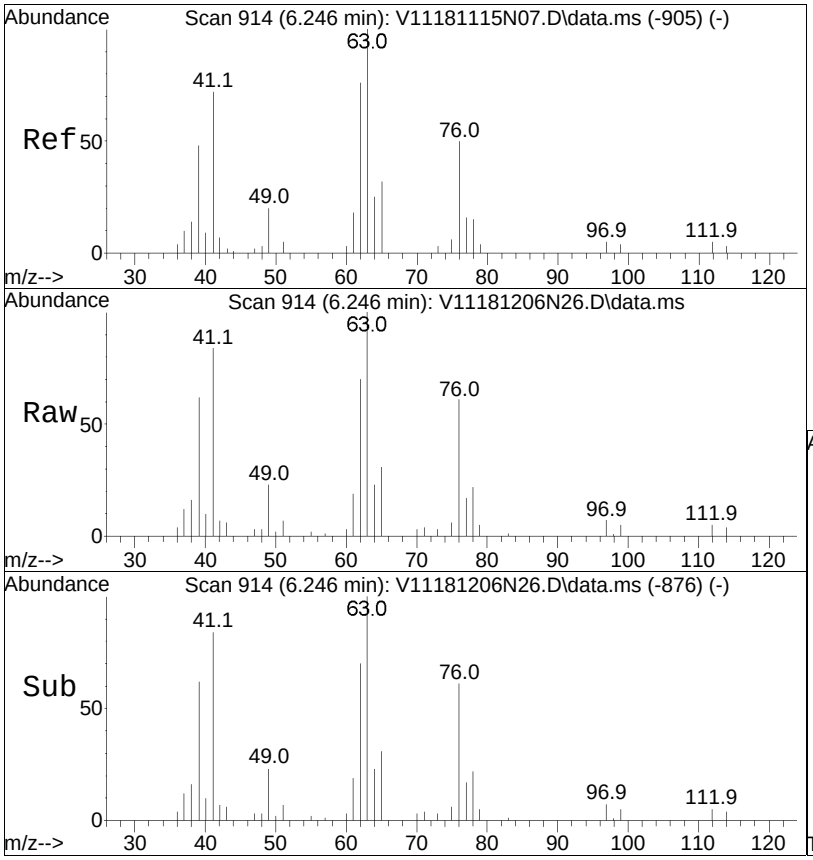


#48
Trichloroethene
Concen: 37.31 ug/L
RT: 5.721 min Scan# 814
Delta R.T. -0.006 min
Lab File: V11181206N26.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion: 95 Resp: 22864

Ion	Ratio	Lower	Upper
95	100		
97	65.6	54.3	81.5
130	108.5	84.6	126.8

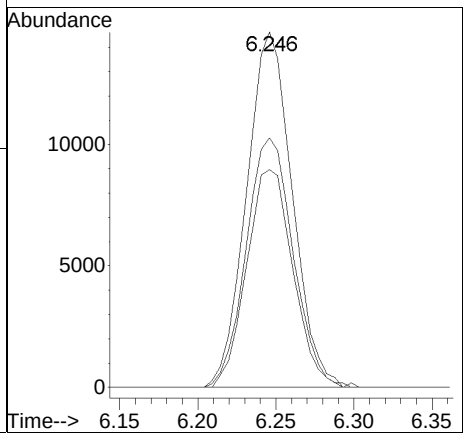


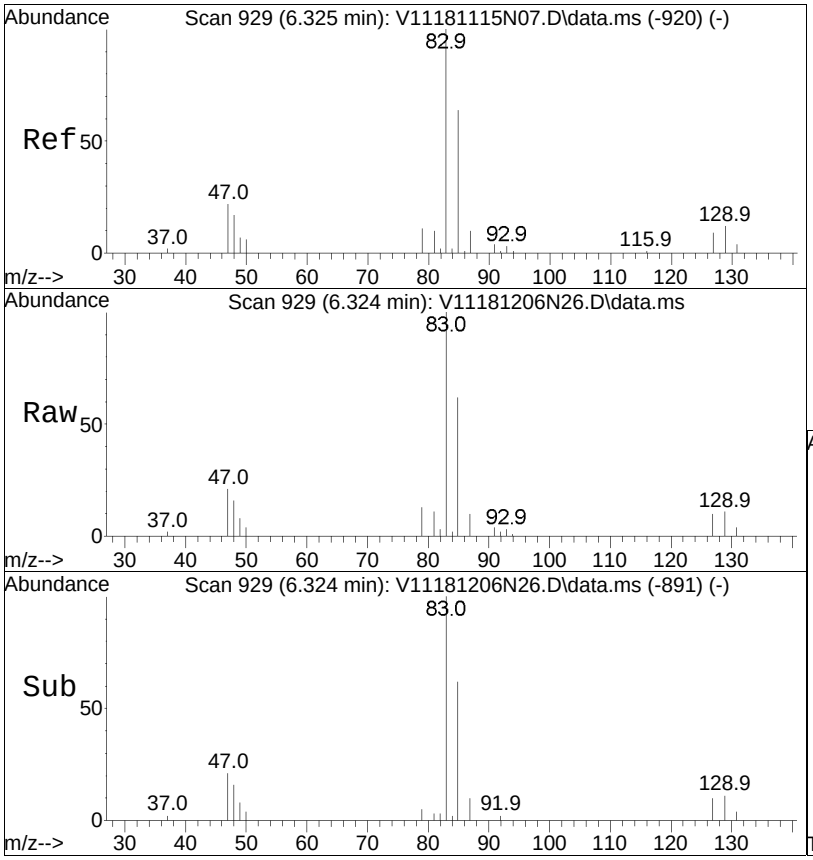


#51
1,2-Dichloropropane
Concen: 45.92 ug/L
RT: 6.246 min Scan# 914
Delta R.T. -0.000 min
Lab File: V11181206N26.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion: 63 Resp: 29831

Ion	Ratio	Lower	Upper
63	100		
62	72.1	57.9	86.9
76	62.0	30.1	45.1#

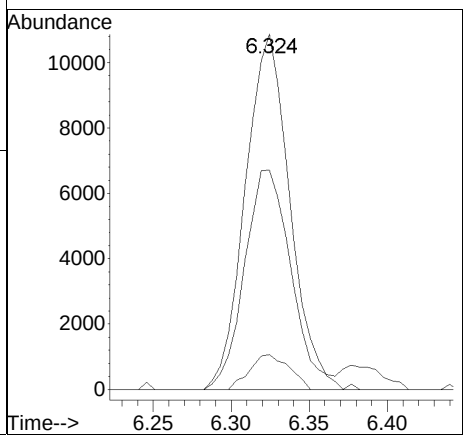


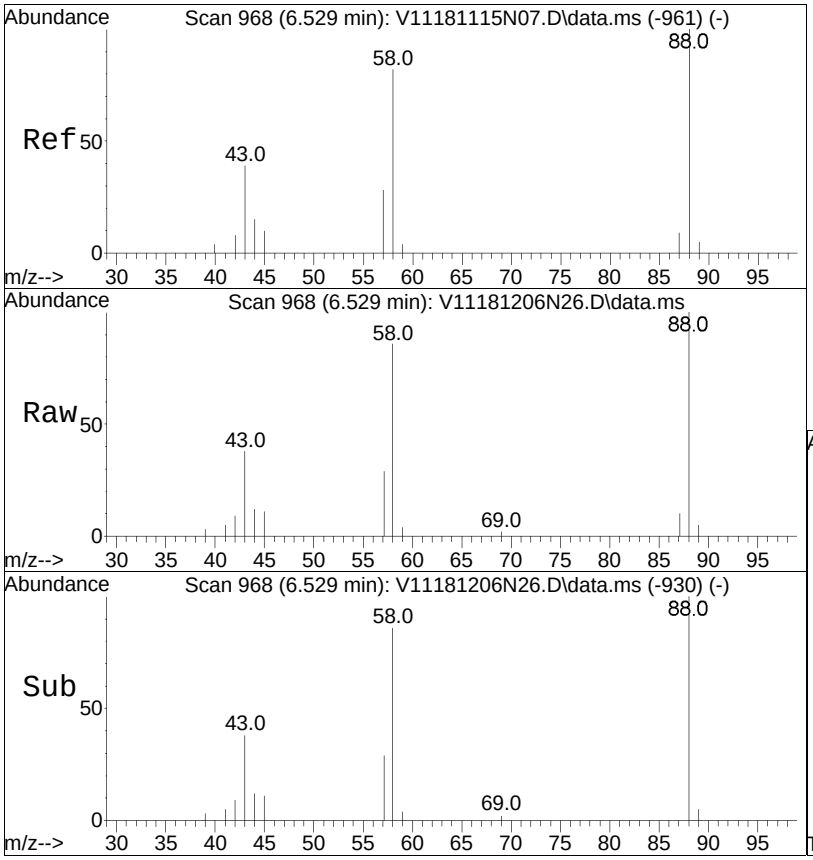


#54
Bromodichloromethane
Concen: 22.92 ug/L
RT: 6.324 min Scan# 929
Delta R.T. -0.001 min
Lab File: V11181206N26.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion: 83 Resp: 21550

Ion	Ratio	Lower	Upper
83	100		
85	64.7	51.6	77.4
127	8.7	7.1	10.7

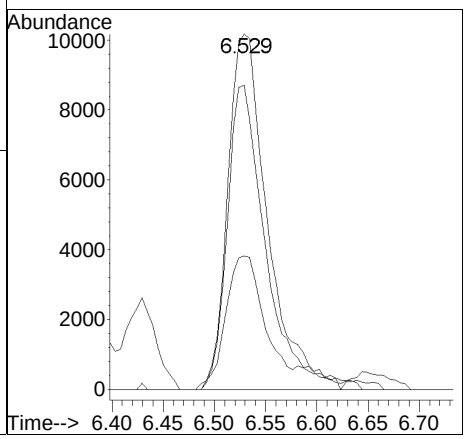


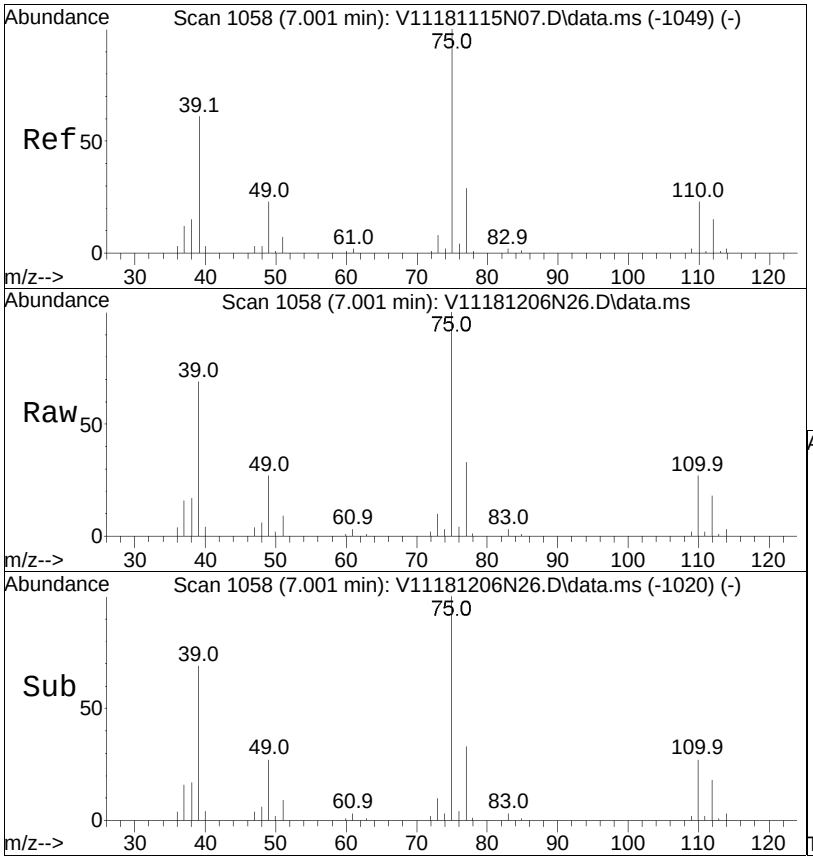


#57
1,4-Dioxane
Concen: 4537.33 ug/L
RT: 6.529 min Scan# 968
Delta R.T. -0.000 min
Lab File: V11181206N26.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion: 88 Resp: 27772

Ion	Ratio	Lower	Upper
88	100		
58	81.0	75.4	113.0
43	36.8	33.5	50.3

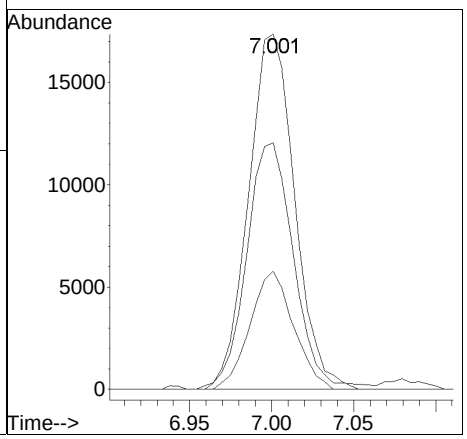


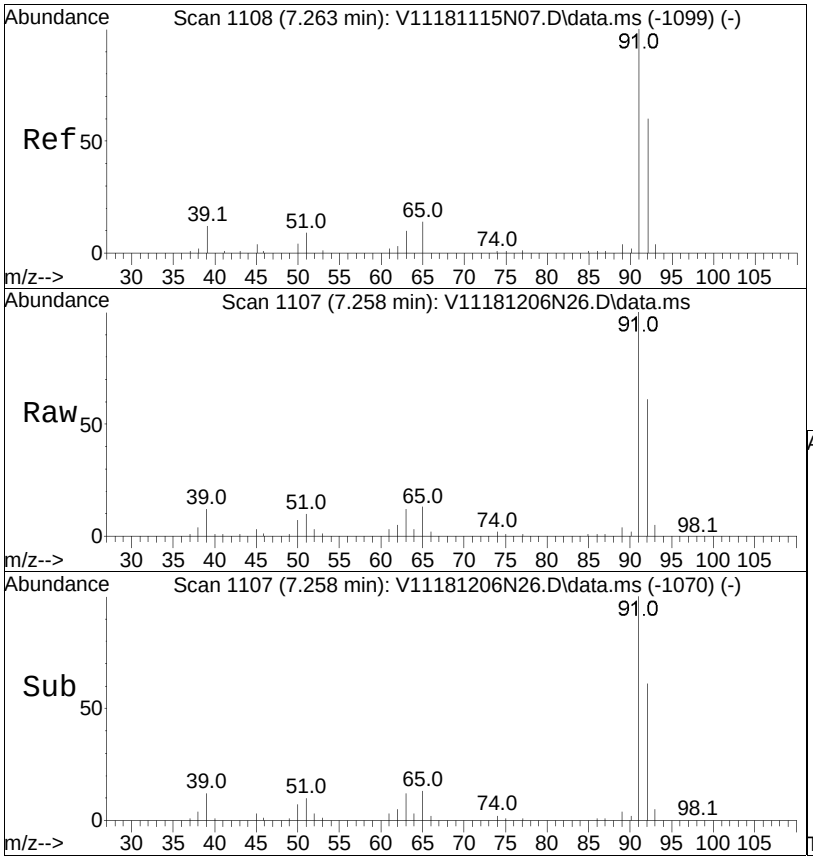


#58
cis-1,3-Dichloropropene
Concen: 33.99 ug/L
RT: 7.001 min Scan# 1058
Delta R.T. -0.000 min
Lab File: V11181206N26.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion: 75 Resp: 34062

Ion	Ratio	Lower	Upper
75	100		
77	31.3	24.9	37.3
39	70.8	51.8	77.8

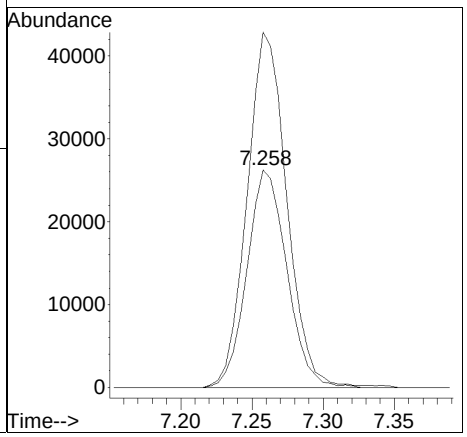


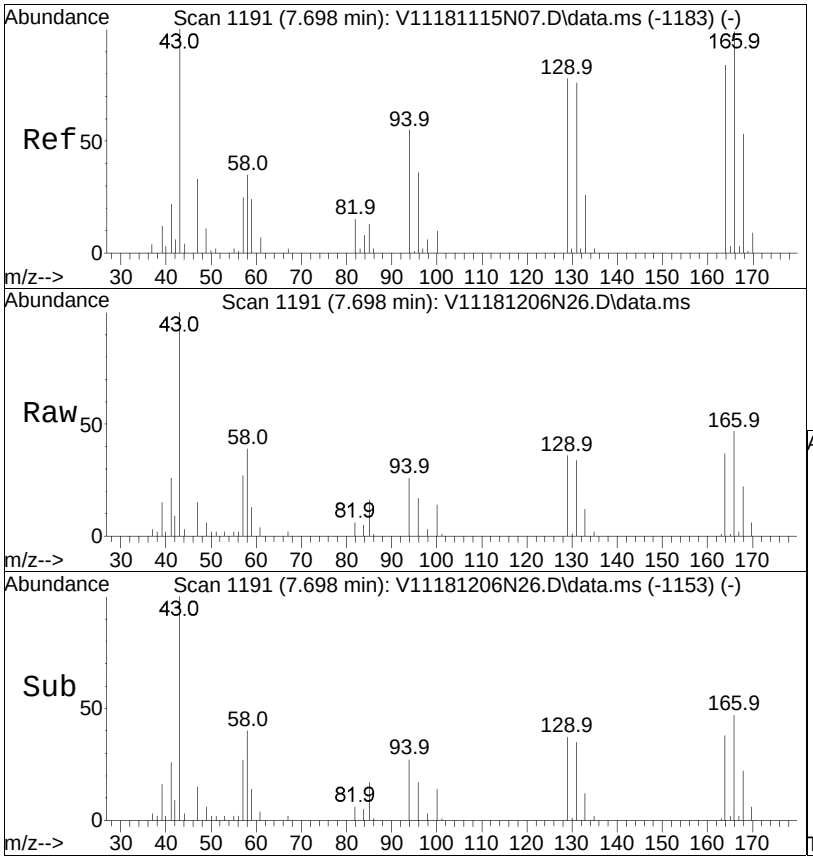


#61
Toluene
Concen: 40.01 ug/L
RT: 7.258 min Scan# 1107
Delta R.T. -0.005 min
Lab File: V11181206N26.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion: 92 Resp: 50951

Ion	Ratio	Lower	Upper
92	100		
91	163.0	133.7	200.5

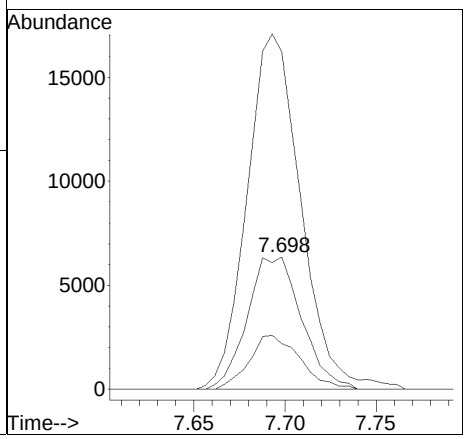


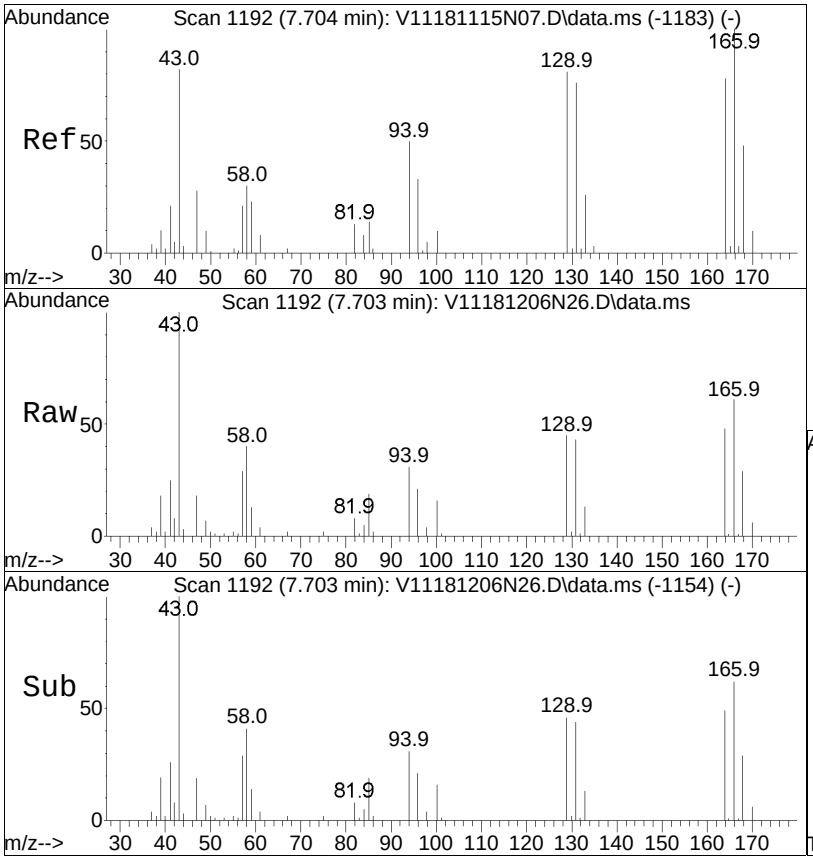


#62
4-Methyl-2-pentanone
Concen: 64.18 ug/L
RT: 7.698 min Scan# 1191
Delta R.T. 0.000 min
Lab File: V11181206N26.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion: 58 Resp: 13212

Ion	Ratio	Lower	Upper
58	100		
100	38.6	22.0	33.0#
43	266.0	236.9	355.3

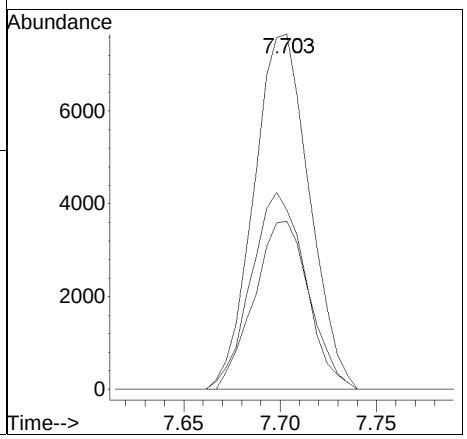


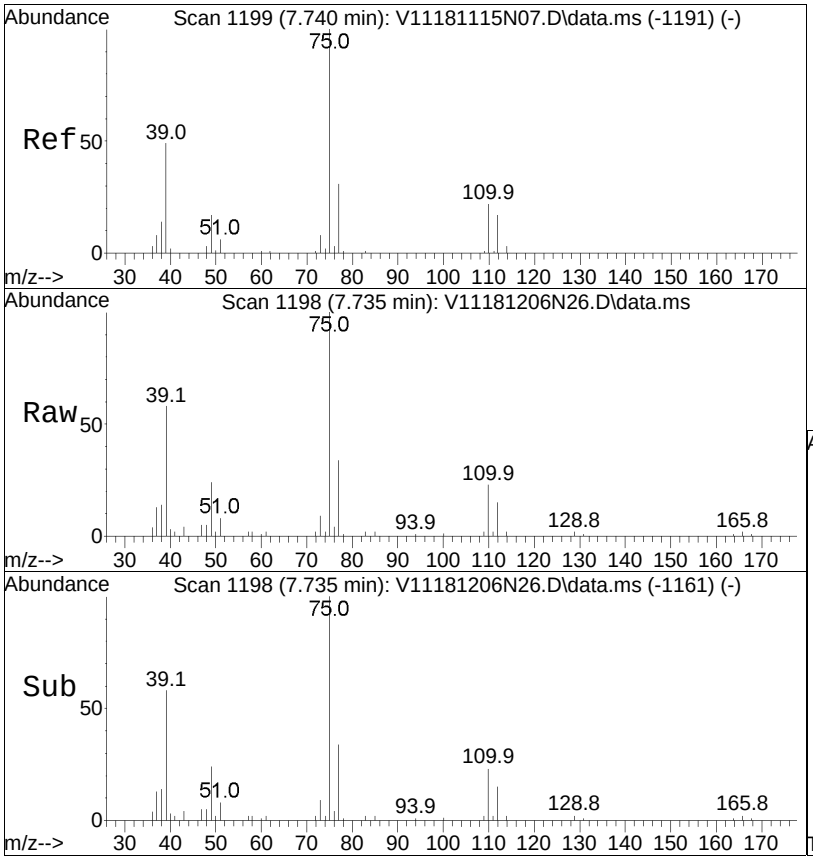


#63
Tetrachloroethene
Concen: 29.03 ug/L
RT: 7.703 min Scan# 1192
Delta R.T. -0.001 min
Lab File: V11181206N26.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion:166 Resp: 15358

Ion	Ratio	Lower	Upper
166	100		
168	47.5	28.2	68.2
94	53.8	26.3	66.3

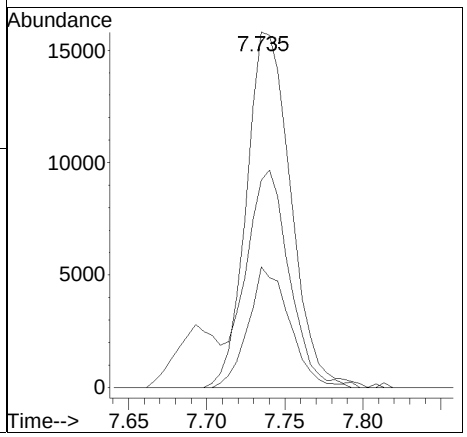


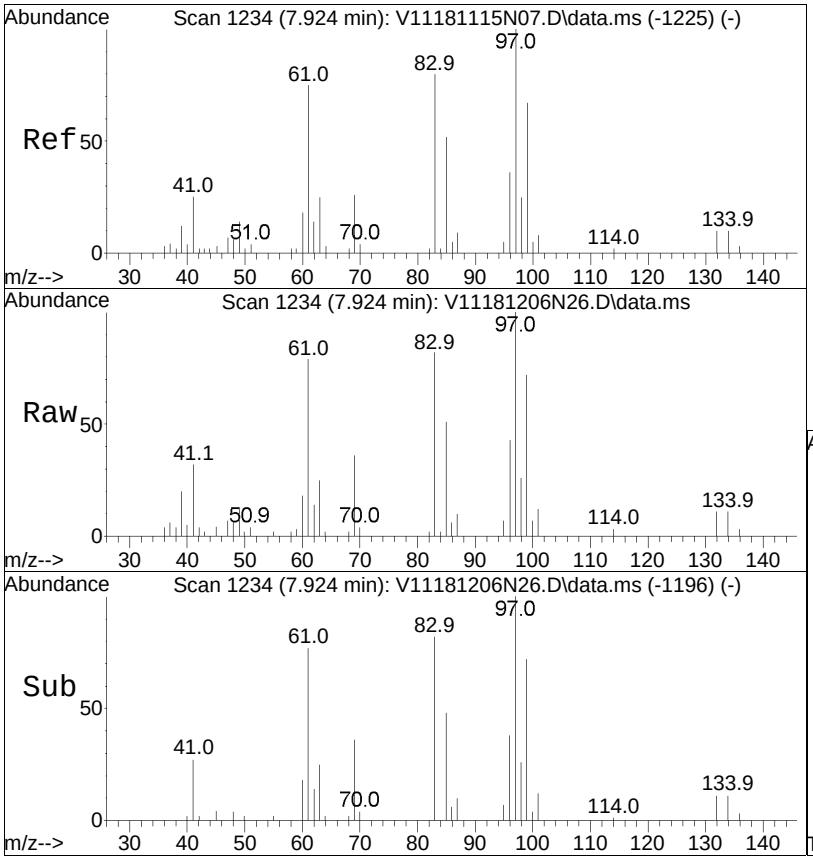


#65
trans-1,3-Dichloropropene
Concen: 38.17 ug/L
RT: 7.735 min Scan# 1198
Delta R.T. -0.005 min
Lab File: V11181206N26.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion: 75 Resp: 31266

Ion	Ratio	Lower	Upper
75	100		
77	31.5	11.4	51.4
39	60.3	50.3	90.3

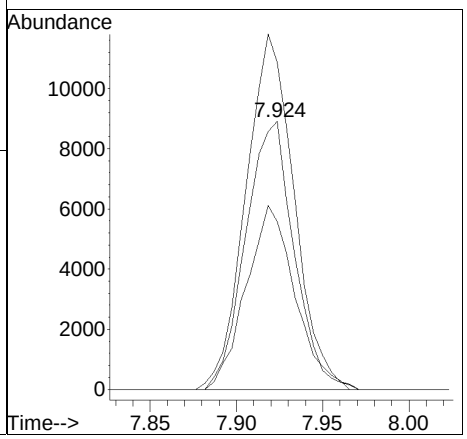


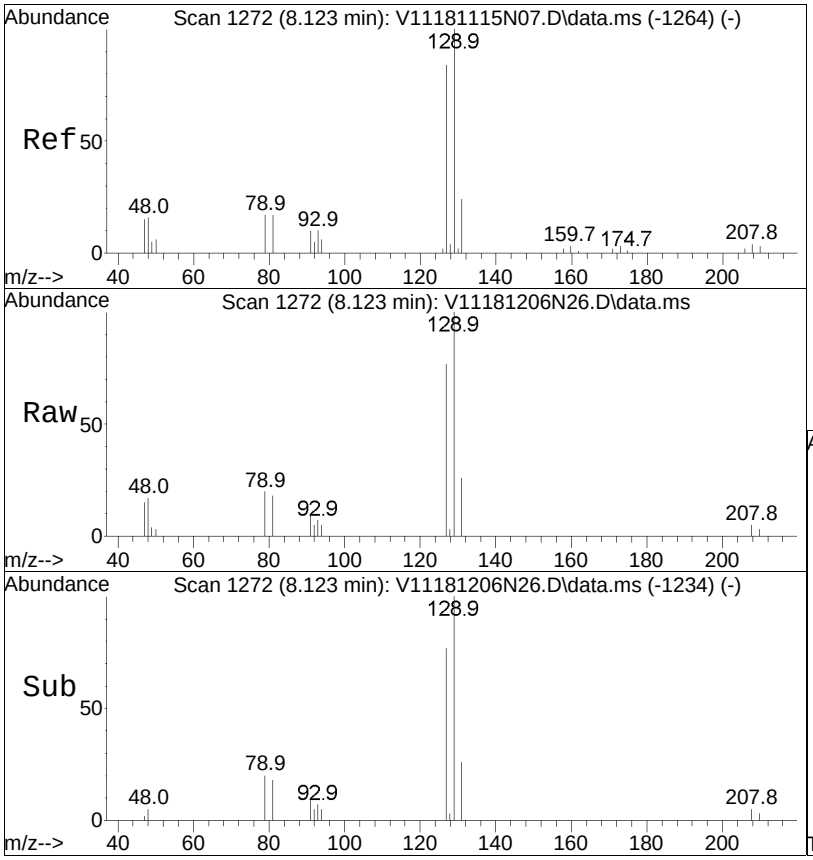


#68
1,1,2-Trichloroethane
Concen: 49.04 ug/L
RT: 7.924 min Scan# 1234
Delta R.T. -0.000 min
Lab File: V11181206N26.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion: 83 Resp: 17398

Ion	Ratio	Lower	Upper
83	100		
97	132.2	97.6	137.6
85	69.3	46.8	86.8

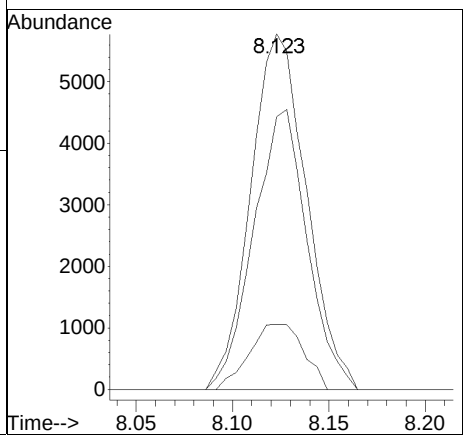


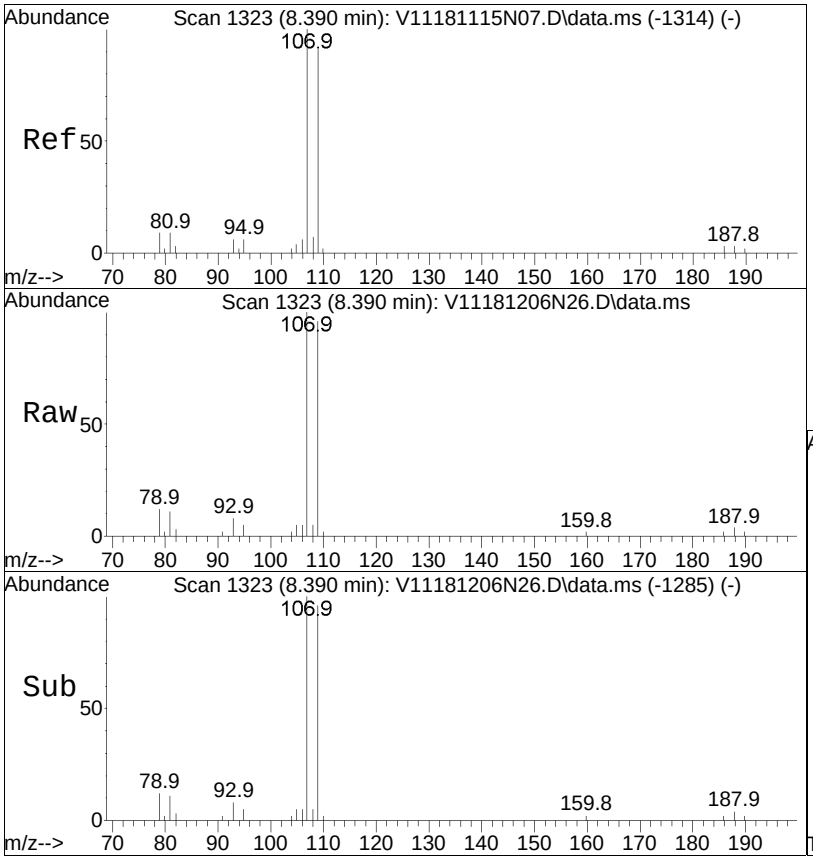


#69
Chlorodibromomethane
Concen: 18.93 ug/L
RT: 8.123 min Scan# 1272
Delta R.T. -0.000 min
Lab File: V11181206N26.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion:129 Resp: 11626

Ion	Ratio	Lower	Upper
129	100		
81	17.8	0.0	36.0
127	75.5	56.0	96.0

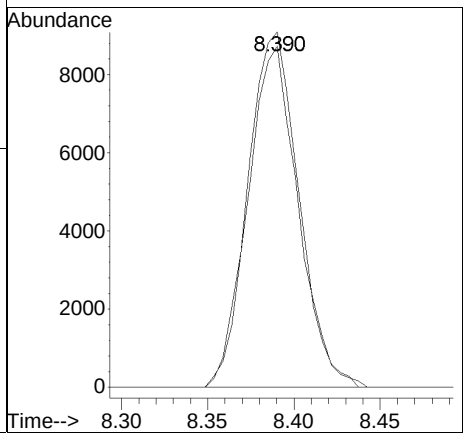


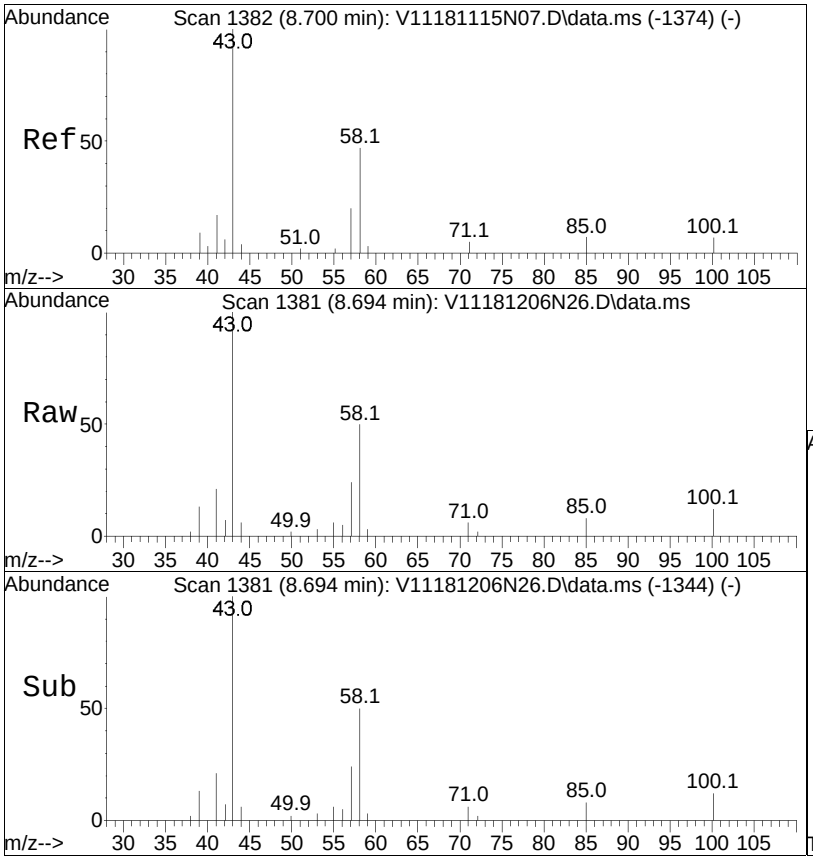


#71
1,2-Dibromoethane
Concen: 42.17 ug/L
RT: 8.390 min Scan# 1323
Delta R.T. 0.000 min
Lab File: V11181206N26.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion:107 Resp: 18810

Ion	Ratio	Lower	Upper
107	100		
109	93.8	76.2	114.4

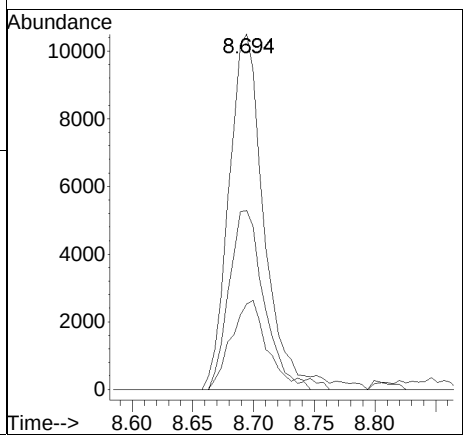


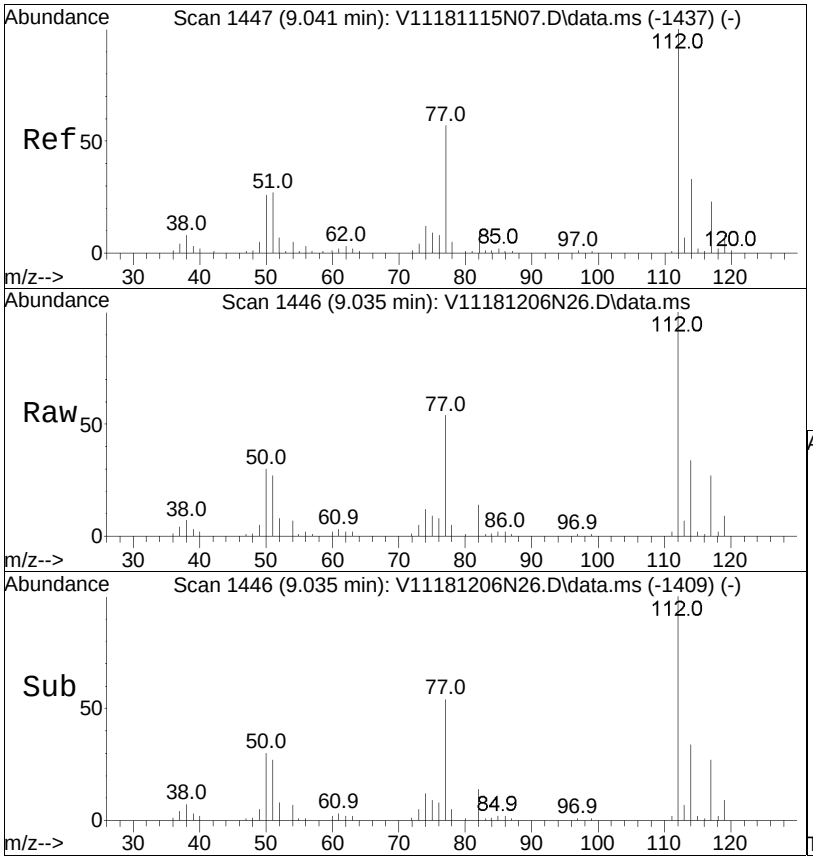


#72
2-Hexanone
Concen: 54.82 ug/L
RT: 8.694 min Scan# 1381
Delta R.T. -0.006 min
Lab File: V11181206N26.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion: 43 Resp: 21416

Ion	Ratio	Lower	Upper
43	100		
58	49.2	37.9	56.9
57	26.6	12.6	19.0#

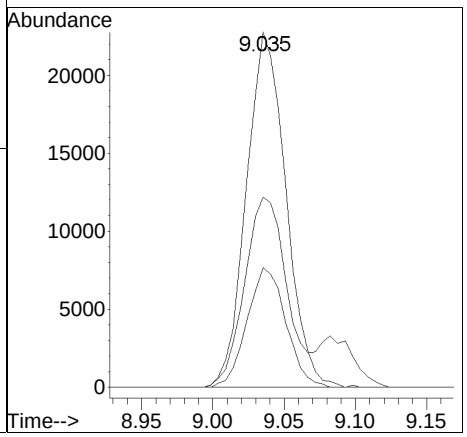


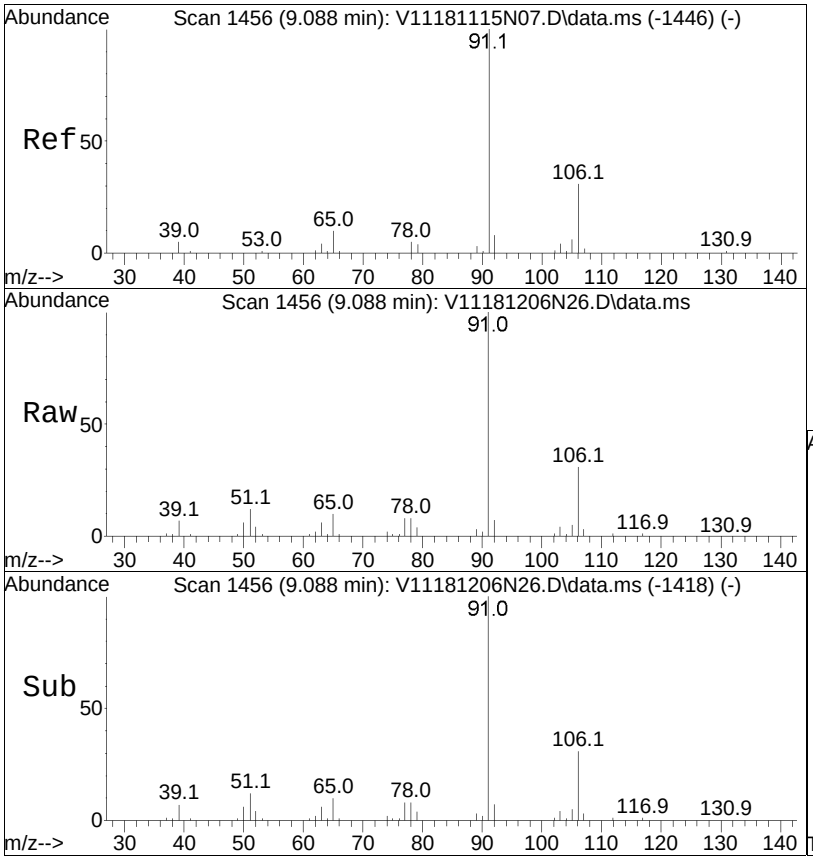


#73
Chlorobenzene
Concen: 28.37 ug/L
RT: 9.035 min Scan# 1446
Delta R.T. -0.006 min
Lab File: V11181206N26.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion:112 Resp: 43941

Ion	Ratio	Lower	Upper
112	100		
77	56.8	47.0	70.4
114	33.1	25.9	38.9

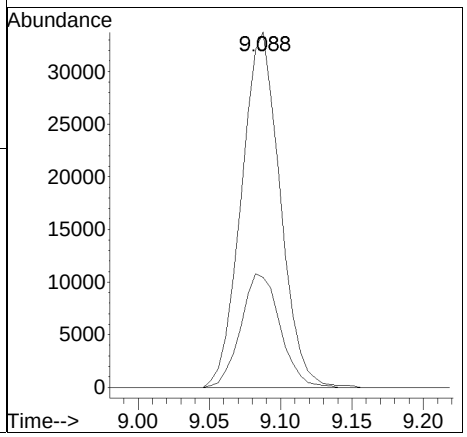


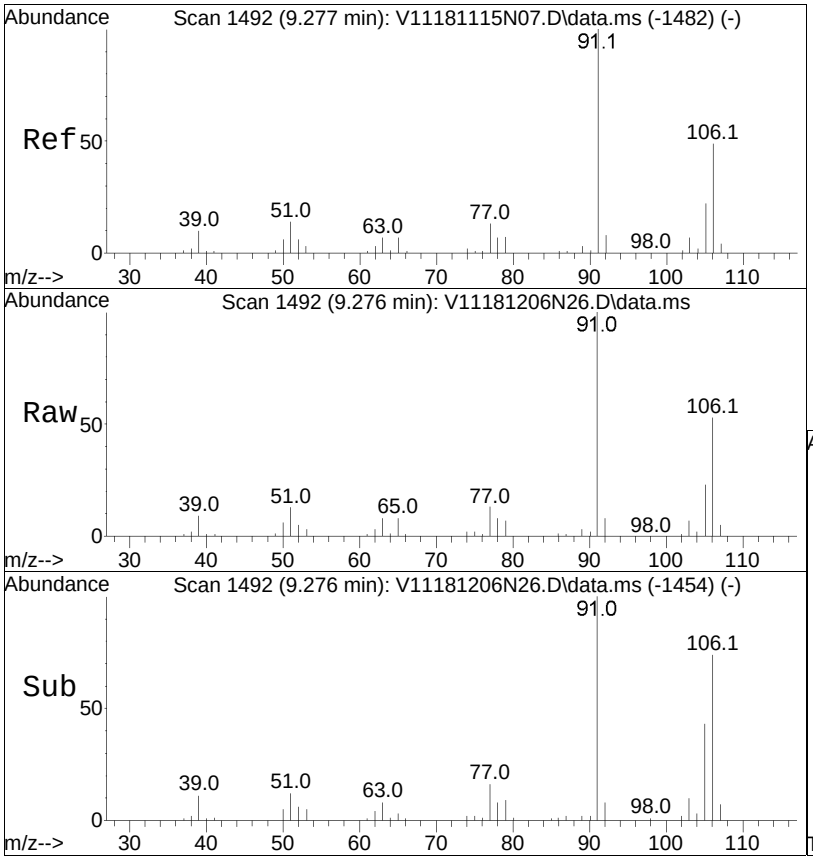


#74
Ethylbenzene
Concen: 25.37 ug/L
RT: 9.088 min Scan# 1456
Delta R.T. -0.000 min
Lab File: V11181206N26.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion: 91 Resp: 63590

Ion	Ratio	Lower	Upper
91	100		
106	32.5	25.0	37.4

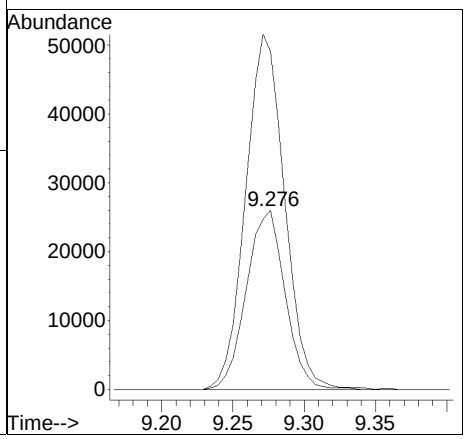


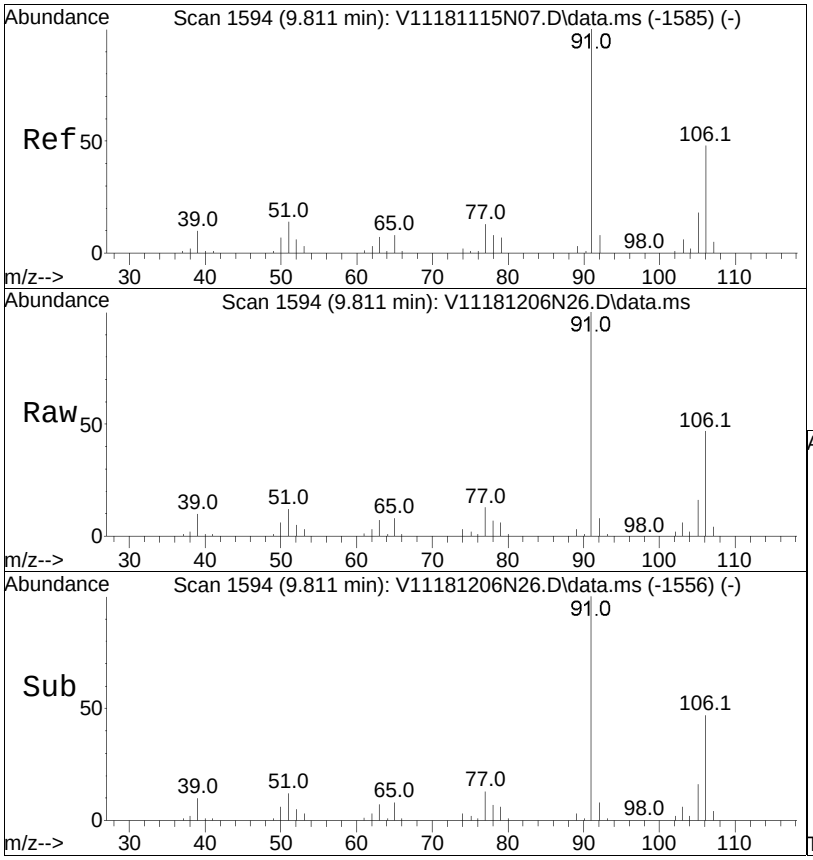


#76
p/m Xylene
Concen: 49.46 ug/L
RT: 9.276 min Scan# 1492
Delta R.T. -0.001 min
Lab File: V11181206N26.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion:106 Resp: 49043

Ion	Ratio	Lower	Upper
106	100		
91	199.4	159.3	238.9

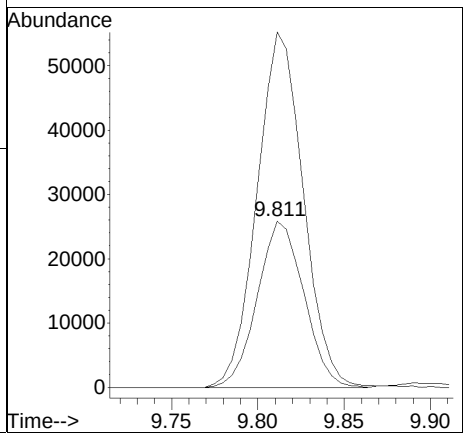


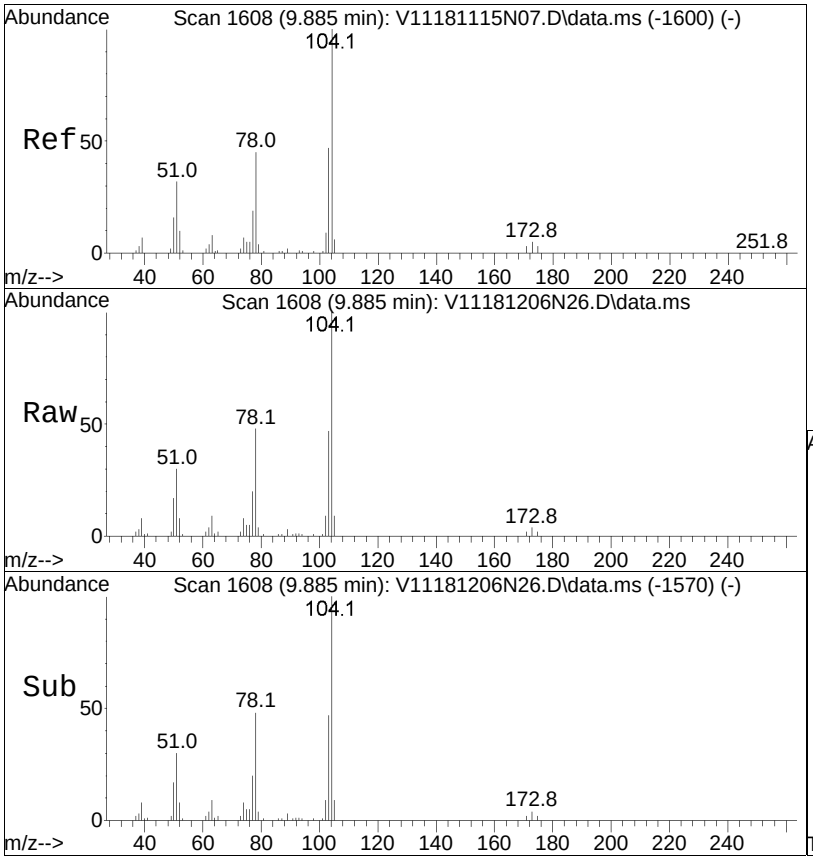


#77
o Xylene
Concen: 48.73 ug/L
RT: 9.811 min Scan# 1594
Delta R.T. 0.000 min
Lab File: V11181206N26.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion:106 Resp: 48316

Ion	Ratio	Lower	Upper
106	100		
91	213.5	170.2	255.2

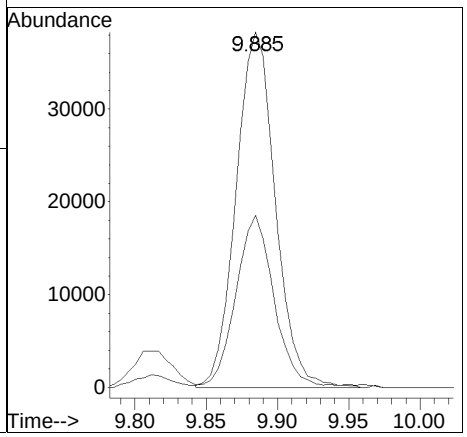


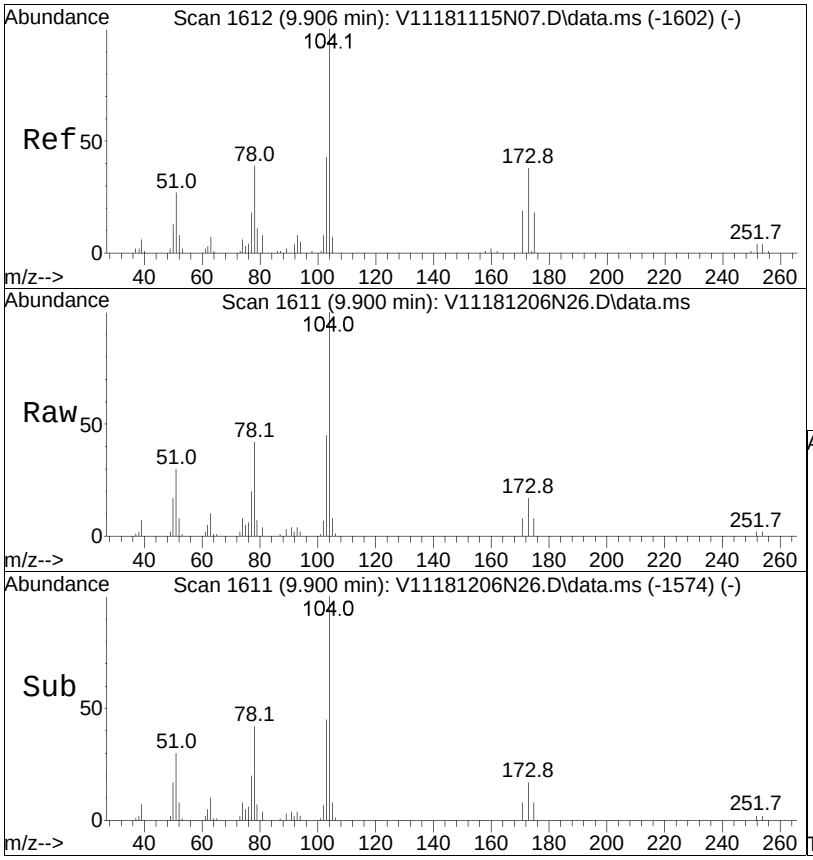


#78
Styrene
Concen: 44.56 ug/L
RT: 9.885 min Scan# 1608
Delta R.T. -0.000 min
Lab File: V11181206N26.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion:104 Resp: 73427

Ion	Ratio	Lower	Upper
104	100		
78	46.1	34.4	51.6

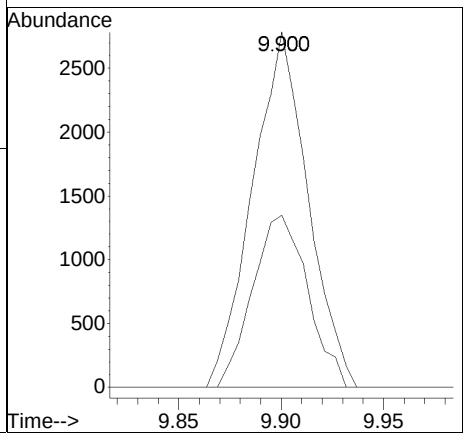


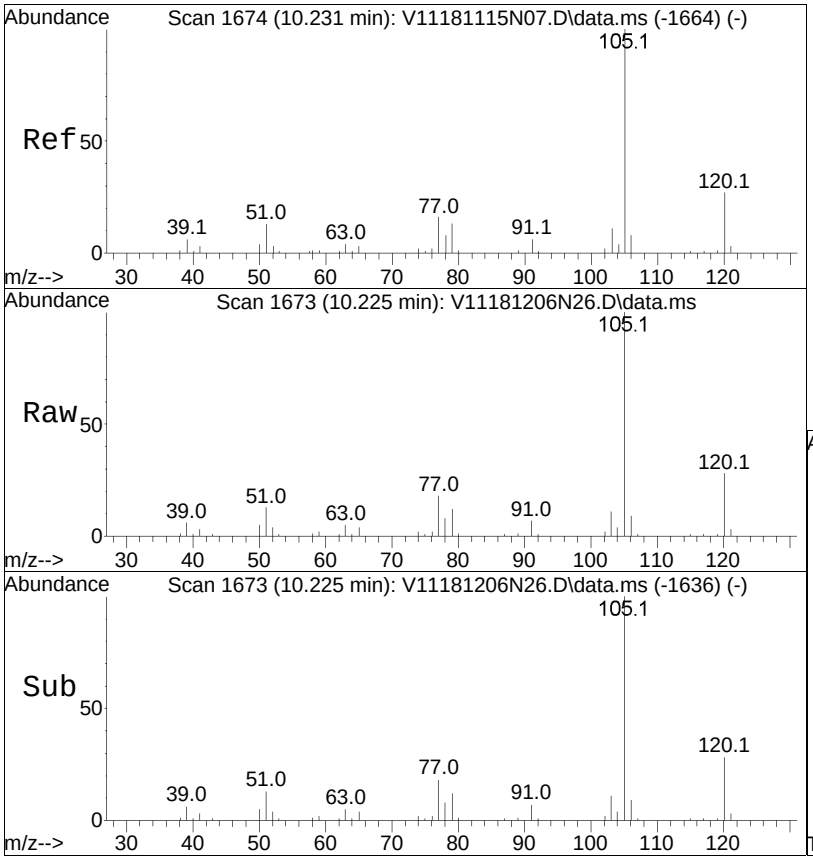


#80
Bromoform
Concen: 21.68 ug/L
RT: 9.900 min Scan# 1611
Delta R.T. -0.006 min
Lab File: V11181206N26.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion:173 Resp: 5252

Ion	Ratio	Lower	Upper
173	100		
175	48.0	28.1	68.1

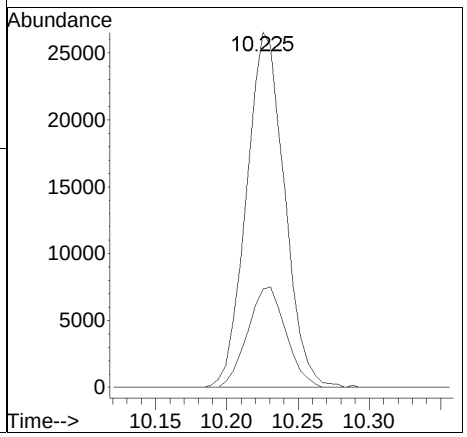


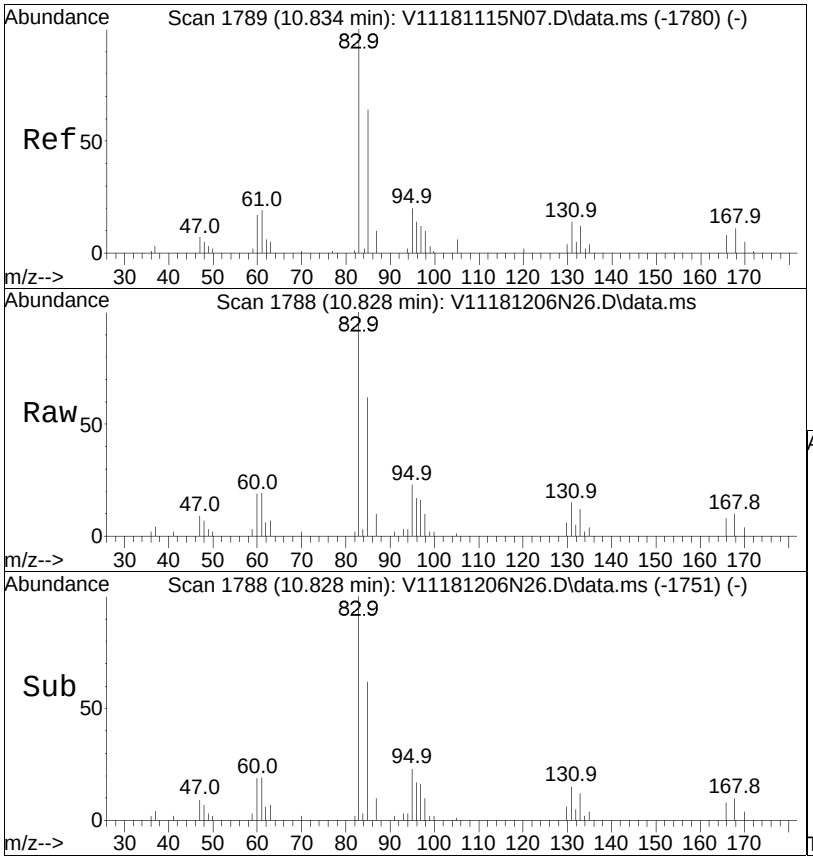


#82
Isopropylbenzene
Concen: 29.15 ug/L
RT: 10.225 min Scan# 1673
Delta R.T. -0.006 min
Lab File: V11181206N26.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion:105 Resp: 49339

Ion	Ratio	Lower	Upper
105	100		
120	28.4	6.9	46.9

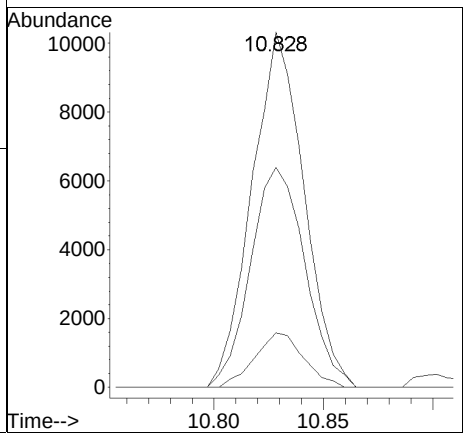


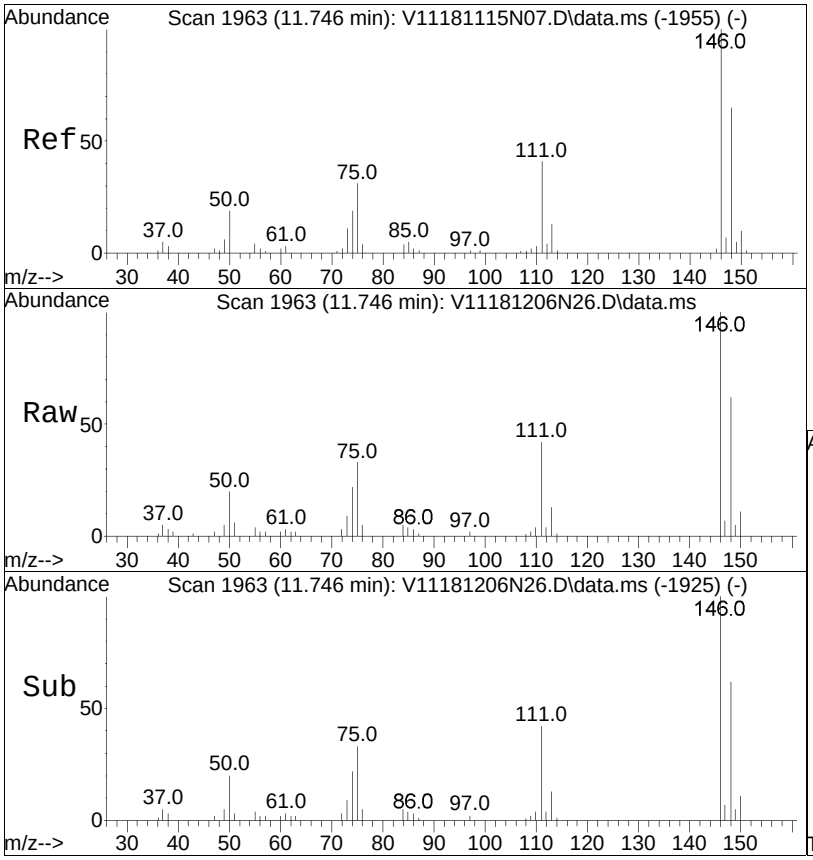


#87
1,1,2,2-Tetrachloroethane
Concen: 47.05 ug/L
RT: 10.828 min Scan# 1788
Delta R.T. -0.006 min
Lab File: V11181206N26.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion: 83 Resp: 17094

Ion	Ratio	Lower	Upper
83	100		
131	14.5	0.0	30.1
85	64.8	45.8	85.8

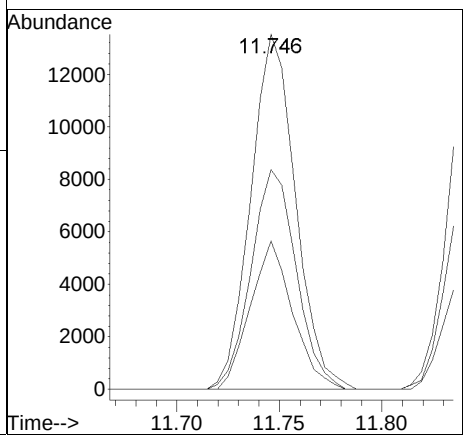


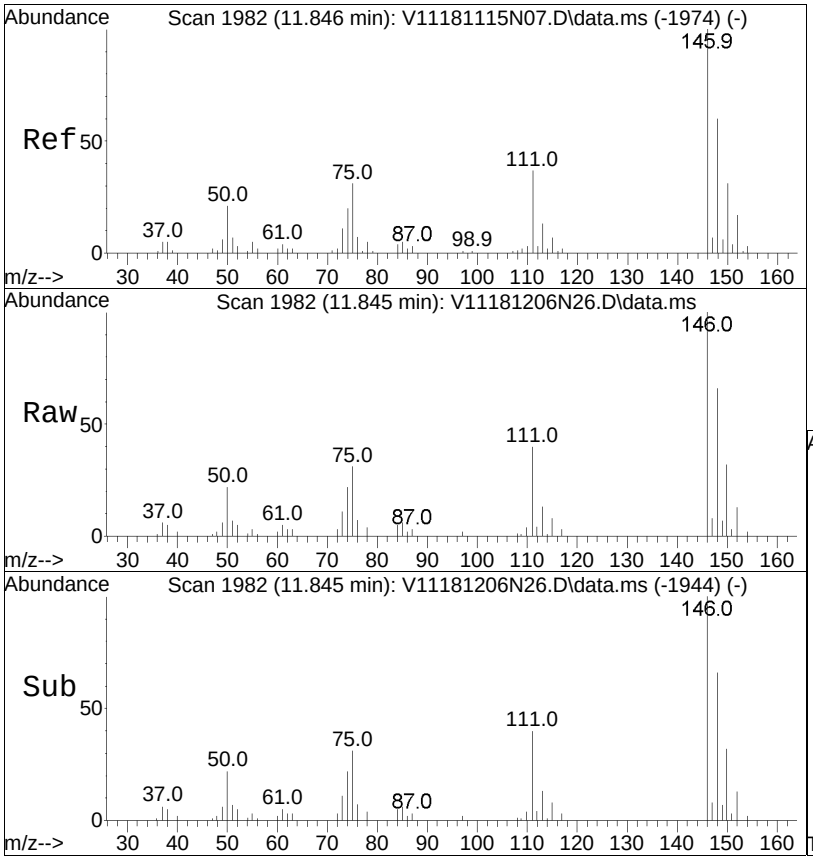


#100
1,3-Dichlorobenzene
Concen: 23.33 ug/L
RT: 11.746 min Scan# 1963
Delta R.T. -0.000 min
Lab File: V11181206N26.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion:146 Resp: 20603

Ion	Ratio	Lower	Upper
146	100		
111	39.6	25.6	53.2
148	62.5	41.3	85.9

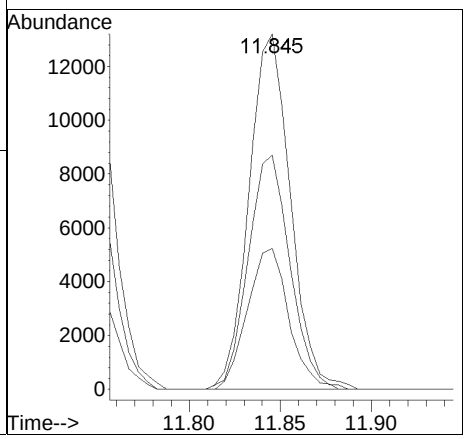


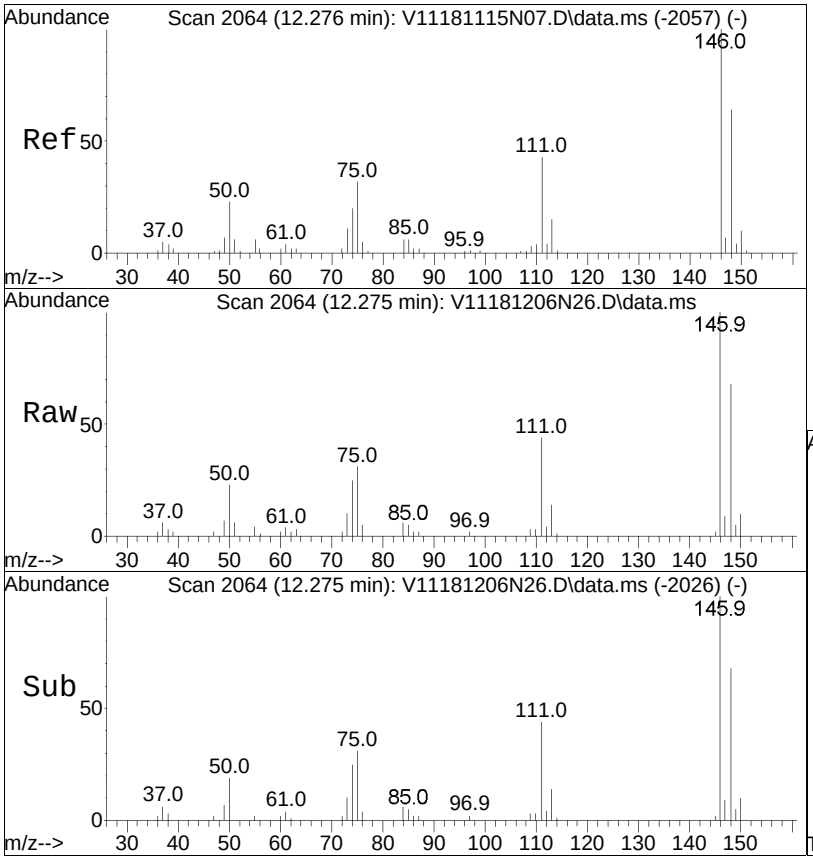


#101
1,4-Dichlorobenzene
Concen: 22.98 ug/L
RT: 11.845 min Scan# 1982
Delta R.T. -0.001 min
Lab File: V11181206N26.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion:146 Resp: 20915

Ion	Ratio	Lower	Upper
146	100		
111	39.7	31.4	47.0
148	66.6	50.7	76.1

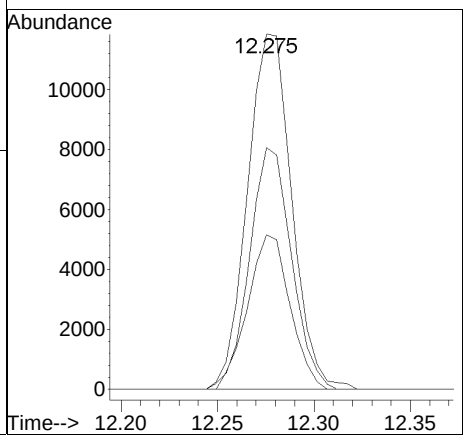


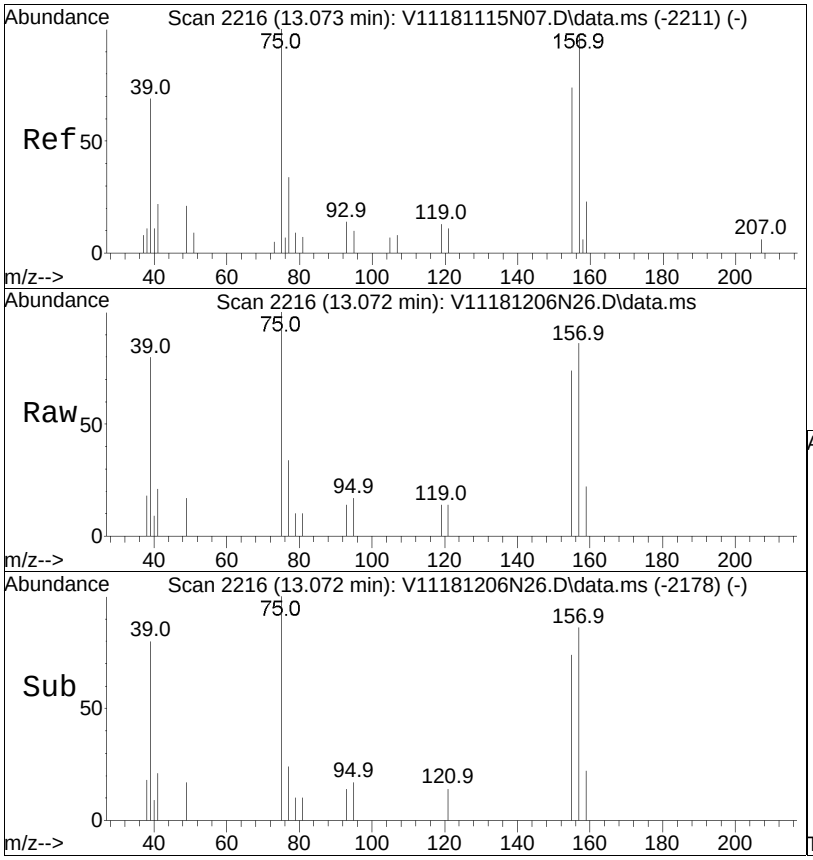


#104
1,2-Dichlorobenzene
Concen: 22.78 ug/L
RT: 12.275 min Scan# 2064
Delta R.T. -0.001 min
Lab File: V11181206N26.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion:146 Resp: 18929

Ion	Ratio	Lower	Upper
146	100		
111	41.6	26.9	55.9
148	64.7	41.2	85.6

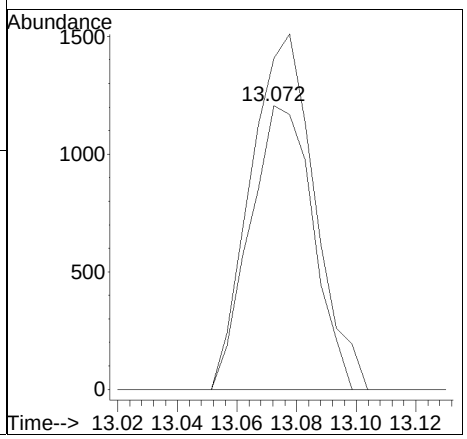


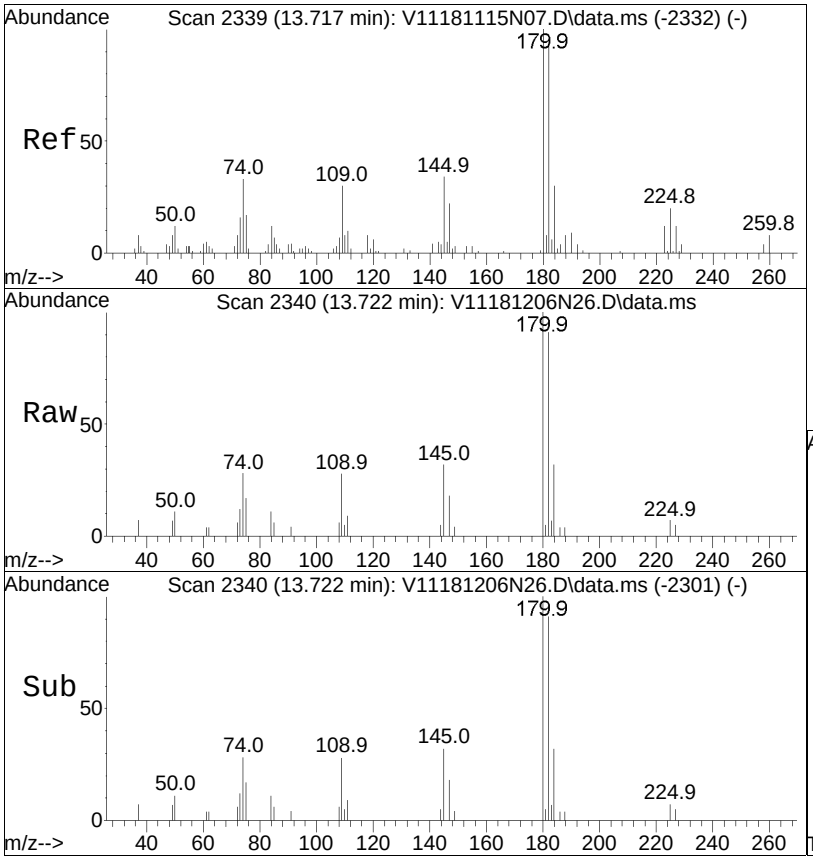


#106
1,2-Dibromo-3-chloropropane
Concen: 25.94 ug/L
RT: 13.072 min Scan# 2216
Delta R.T. -0.001 min
Lab File: V11181206N26.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion:155 Resp: 1766

Ion	Ratio	Lower	Upper
155	100		
157	127.6	100.0	150.0

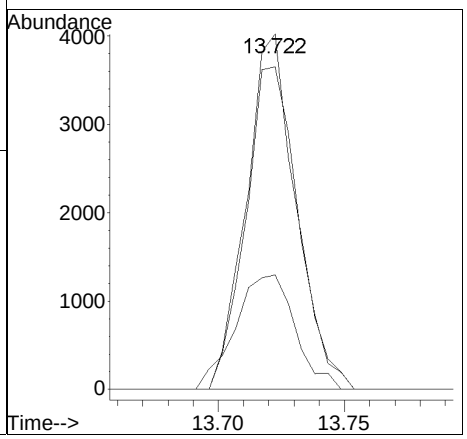


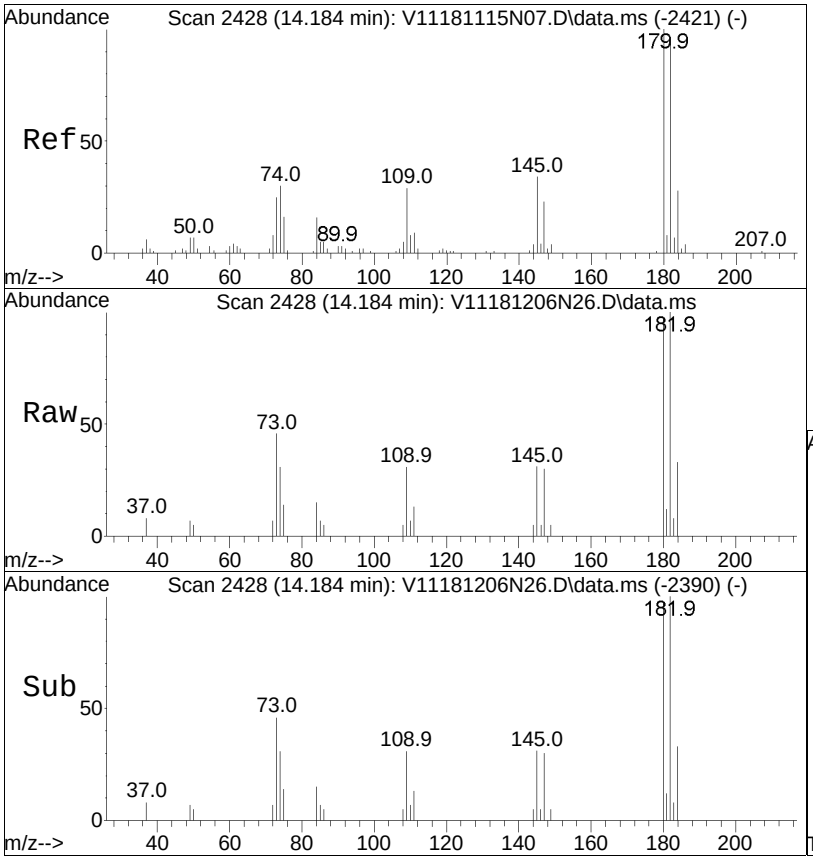


#109
1,2,4-Trichlorobenzene
Concen: 9.69 ug/L
RT: 13.722 min Scan# 2340
Delta R.T. 0.005 min
Lab File: V11181206N26.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion:180 Resp: 5525

Ion	Ratio	Lower	Upper
180	100		
182	96.0	75.8	113.6
145	38.7	29.6	44.4

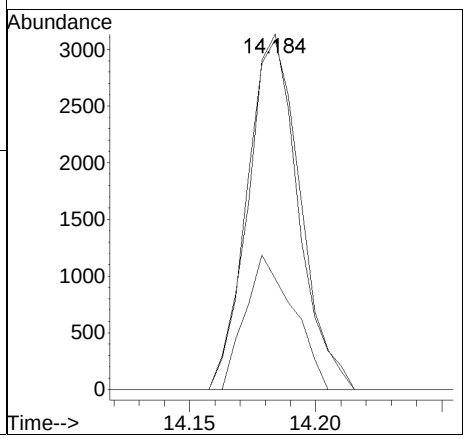




#111
1,2,3-Trichlorobenzene
Concen: 8.36 ug/L
RT: 14.184 min Scan# 2428
Delta R.T. -0.000 min
Lab File: V11181206N26.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion:180 Resp: 4517

Ion	Ratio	Lower	Upper
180	100		
182	96.0	74.2	111.4
145	34.9	26.3	39.5



Manual Integration Report

Data Path	: I:\VOLATILES\VOA111\2018\1	QMethod	: V111_181115N_8260.m
Data File	: V11181206N26.D	Operator	: VOA111:MV
Date Inj'd	: 12/7/2018 1:26 am	Instrument	: VOA111
Sample	: WG1186672-6,31,4.69,5,,z2	Quant Date	: 12/7/2018 4:03 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2018\181206N\
Data File : V11181206N27.D
Acq On : 07 Dec 2018 01:52 am
Operator : VOA111:MV
Sample : WG1186672-7,31,5.02,5,,z1
Misc : WG1186672,ICAL15260
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Dec 07 04:03:14 2018
Quant Method : I:\VOLATILES\VOA111\2018\181206N\V111_181115N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 19 17:40:28 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2018\181206N\V11181206N01.D
Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.549	96	46990	20.000	ug/L	0.00
Standard Area 1 = 82887			Recovery =	56.69%		
59) Chlorobenzene-d5	9.014	117	33682	20.000	ug/L	0.00
Standard Area 1 = 66465			Recovery =	50.68%		
79) 1,4-Dichlorobenzene-d4	11.830	152	12660	20.000	ug/L	0.00
Standard Area 1 = 34331			Recovery =	36.88% *		
System Monitoring Compounds						
36) Dibromofluoromethane	4.768	113	14363	22.865	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	114.32%		
43) 1,2-Dichloroethane-d4	5.271	65	18694	24.129	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	120.65%		
60) Toluene-d8	7.206	98	43715	21.710	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	108.55%		
83) 4-Bromofluorobenzene	10.561	95	14946	25.441	ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery =	127.20%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.527	85	29711	68.867	ug/L #	80
3) Chloromethane	1.700	50	40178	67.136	ug/L	96
4) Vinyl chloride	1.742	62	28186	66.989	ug/L	99
5) Bromomethane	2.015	94	22425	64.460	ug/L	97
6) Chloroethane	2.114	64	20150	70.715	ug/L	99
7) Trichlorofluoromethane	2.235	101	42780	49.854	ug/L	100
10) 1,1-Dichloroethene	2.670	96	26809	63.008	ug/L	97
11) Carbon disulfide	2.696	76	38285	28.985	ug/L	98
12) Freon-113	2.707	101	13740	30.034	ug/L	87
15) Methylene chloride	3.174	84	39731	68.072	ug/L	89
17) Acetone	3.210	43	17125	102.186	ug/L	98
18) trans-1,2-Dichloroethene	3.315	96	23756	44.046	ug/L	96
19) Methyl acetate	3.320	43	40765	87.675	ug/L #	95
20) Methyl tert-butyl ether	3.410	73	128224	73.405	ug/L	92
23) 1,1-Dichloroethane	3.855	63	66535	55.947	ug/L	98
28) cis-1,2-Dichloroethene	4.348	96	31351	48.404	ug/L	97
30) Bromochloromethane	4.532	128	17950	56.679	ug/L #	72
31) Cyclohexane	4.532	56	16785	15.717	ug/L	87
32) Chloroform	4.600	83	75573	63.380	ug/L	98
34) Carbon tetrachloride	4.731	117	16248	18.212	ug/L	97

Data Path : I:\VOLATILES\VOA111\2018\181206N\
Data File : V11181206N27.D
Acq On : 07 Dec 2018 01:52 am
Operator : VOA111:MV
Sample : WG1186672-7,31,5.02,5,,z1
Misc : WG1186672,ICAL15260
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Dec 07 04:03:14 2018
Quant Method : I:\VOLATILES\VOA111\2018\181206N\V111_181115N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 19 17:40:28 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA111\2018\181206N\V11181206N01.D
Sub List : 8260-CurveSoil - Megamix plus Diox

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37)	1,1,1-Trichloroethane	4.788	97	48487	45.610	ug/L		95
39)	2-Butanone	4.878	43	16901	60.524	ug/L		98
41)	Benzene	5.145	78	89867	40.158	ug/L		98
44)	1,2-Dichloroethane	5.334	62	66704	61.438	ug/L		98
47)	Methyl cyclohexane	5.716	83	9270	10.883	ug/L		95
48)	Trichloroethene	5.722	95	19338	31.006	ug/L		97
51)	1,2-Dichloropropane	6.246	63	27112	41.001	ug/L	#	86
54)	Bromodichloromethane	6.325	83	18579	19.416	ug/L		99
57)	1,4-Dioxane	6.529	88	23813	3827.963	ug/L		89
58)	cis-1,3-Dichloropropene	7.001	75	32232	31.598	ug/L		96
61)	Toluene	7.258	92	44684	34.884	ug/L		97
62)	4-Methyl-2-pentanone	7.698	58	12923	62.408	ug/L	#	83
63)	Tetrachloroethene	7.704	166	13126	24.669	ug/L		96
65)	trans-1,3-Dichloropropene	7.740	75	30145	36.586	ug/L		91
68)	1,1,2-Trichloroethane	7.919	83	16814	47.118	ug/L		92
69)	Chlorodibromomethane	8.123	129	10039	16.254	ug/L		95
71)	1,2-Dibromoethane	8.385	107	17825	39.722	ug/L		100
72)	2-Hexanone	8.689	43	21002	53.473	ug/L	#	93
73)	Chlorobenzene	9.041	112	39265	25.198	ug/L		96
74)	Ethylbenzene	9.088	91	54268	21.524	ug/L		97
76)	p/m Xylene	9.271	106	42888	42.994	ug/L		100
77)	o Xylene	9.817	106	42101	42.210	ug/L		98
78)	Styrene	9.885	104	66798	40.299	ug/L		94
80)	Bromoform	9.900	173	4595	18.155	ug/L		96
82)	Isopropylbenzene	10.226	105	40739	23.033	ug/L		100
87)	1,1,2,2-Tetrachloroethane	10.829	83	16685	43.950	ug/L		97
100)	1,3-Dichlorobenzene	11.746	146	18323	19.856	ug/L		99
101)	1,4-Dichlorobenzene	11.846	146	19105	20.087	ug/L		99
104)	1,2-Dichlorobenzene	12.276	146	17811	20.511	ug/L		99
106)	1,2-Dibromo-3-chloropr...	13.078	155	1399	19.902	ug/L		94
109)	1,2,4-Trichlorobenzene	13.723	180	5589	9.376	ug/L		95
111)	1,2,3-Trichlorobenzene	14.184	180	4755	8.419	ug/L		95

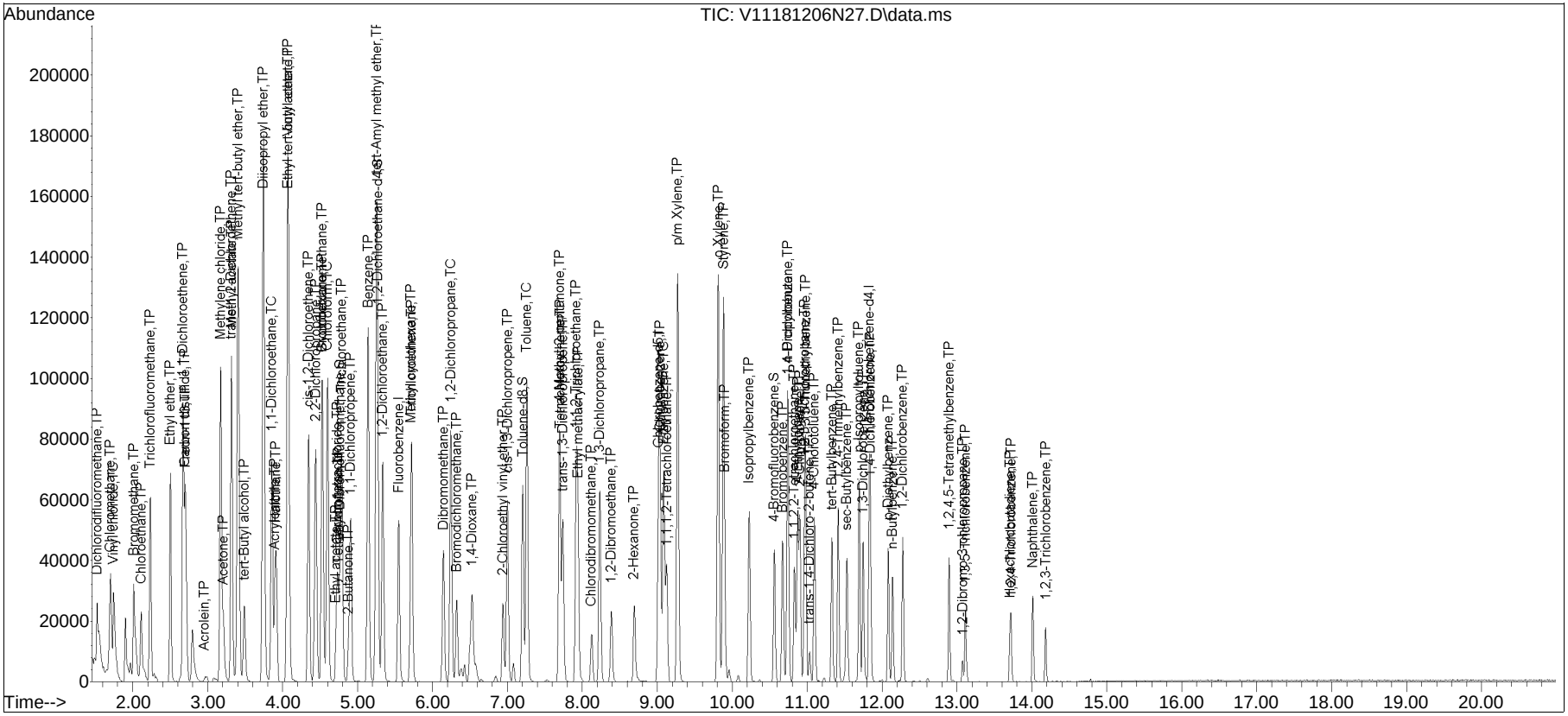
(#) = qualifier out of range (m) = manual integration (+) = signals summed

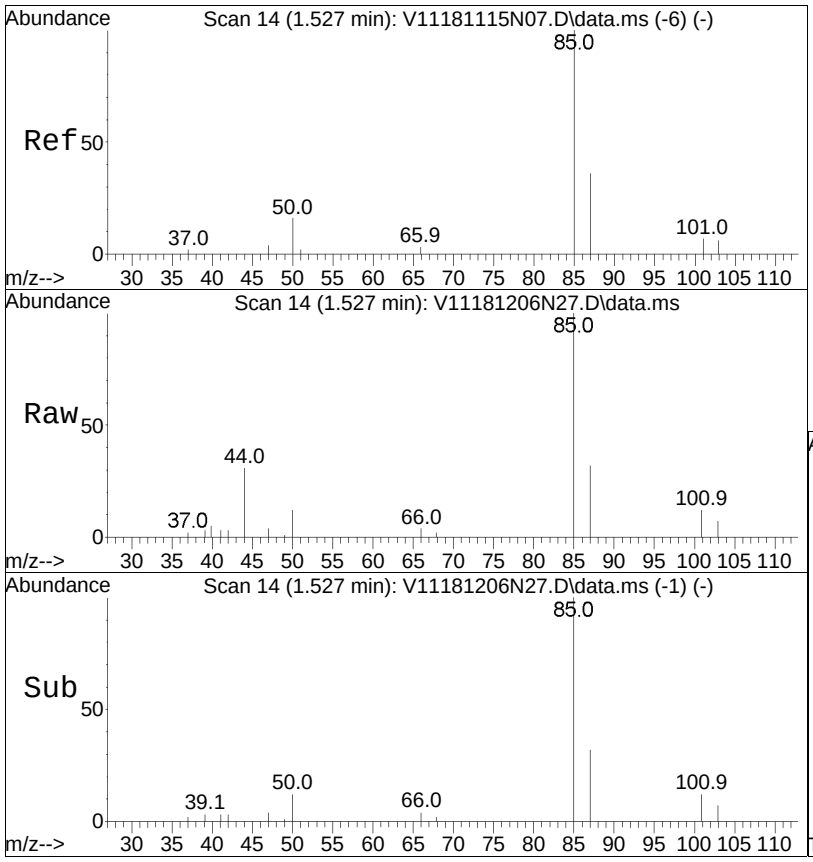
Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA111\2018\181206N\
Data File : V11181206N27.D
Acq On : 07 Dec 2018 01:52 am
Operator : VOA111:MV
Sample : WG1186672-7,31,5.02,5,,z1
Misc : WG1186672,ICAL15260
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Dec 07 04:03:14 2018
Quant Method : I:\VOLATILES\VOA111\2018\181206N\V111_181115N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Mon Nov 19 17:40:28 2018
Response via : Initial Calibration

Sub List : 8260-CurveSoil - Megamix plus Diox6N\V11181206N01.D•

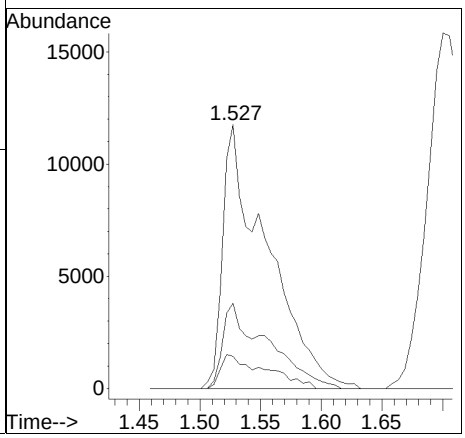


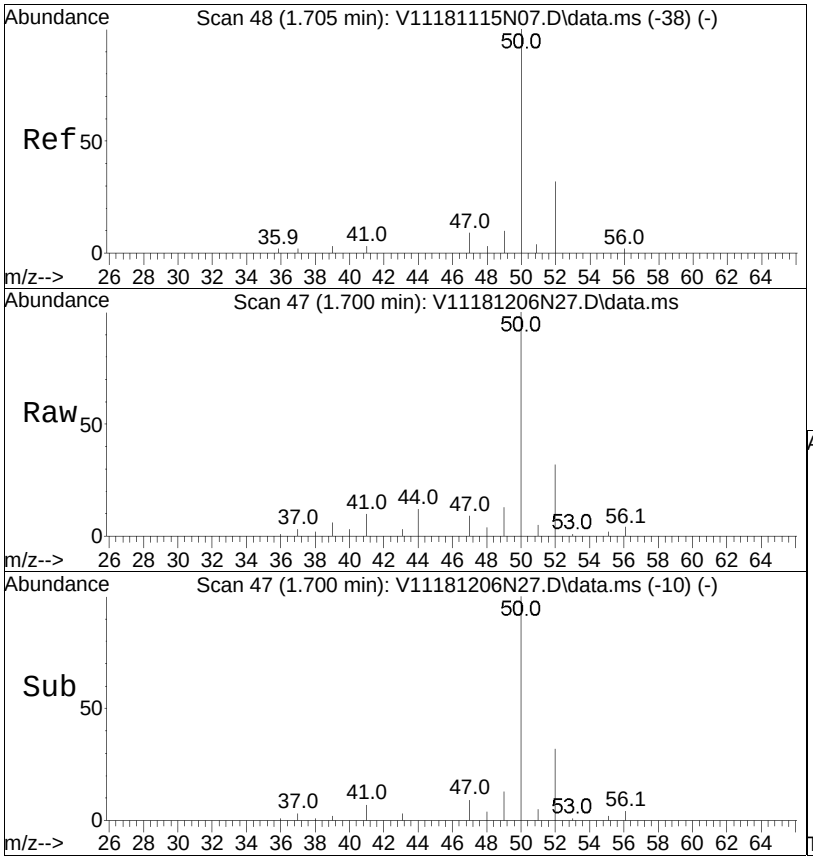


#2
Dichlorodifluoromethane
Concen: 68.87 ug/L
RT: 1.527 min Scan# 14
Delta R.T. 0.000 min
Lab File: V11181206N27.D
Acq: 07 Dec 2018 01:52 am

Tgt Ion: 85 Resp: 29711

Ion	Ratio	Lower	Upper
85	100		
87	17.1	20.7	43.1#
50	13.1	9.8	20.3

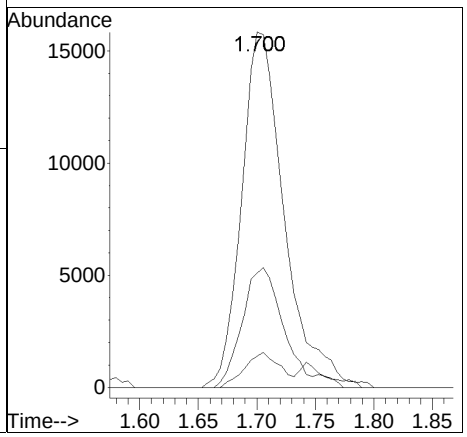


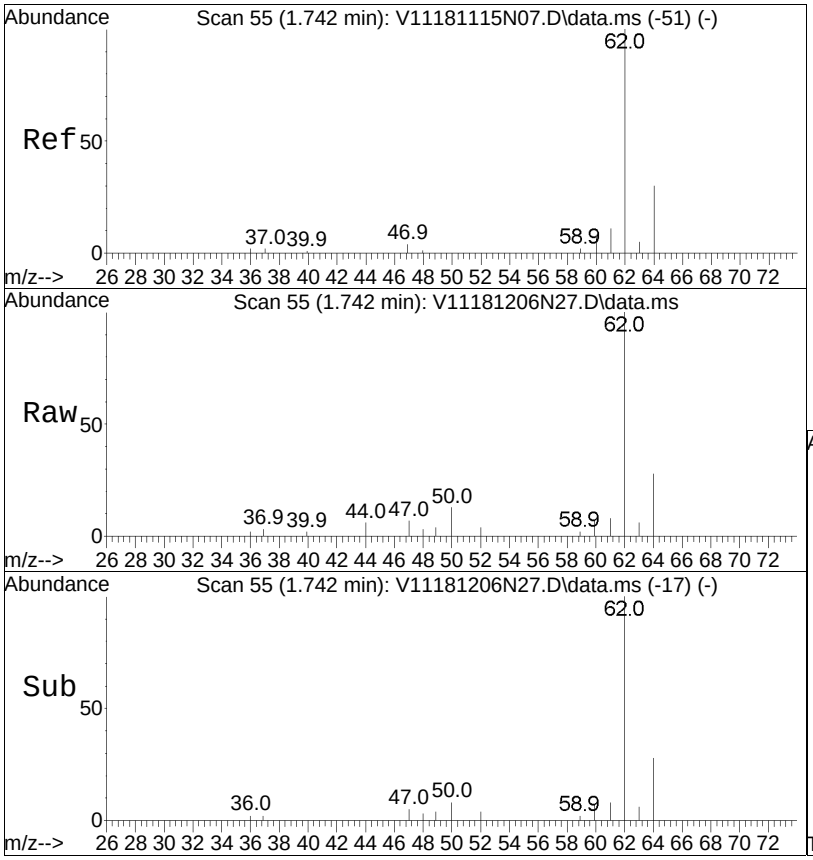


#3
Chloromethane
Concen: 67.14 ug/L
RT: 1.700 min Scan# 47
Delta R.T. -0.005 min
Lab File: V11181206N27.D
Acq: 07 Dec 2018 01:52 am

Tgt Ion: 50 Resp: 40178

Ion	Ratio	Lower	Upper
50	100		
52	33.4	10.9	50.9
47	8.3	0.0	27.2

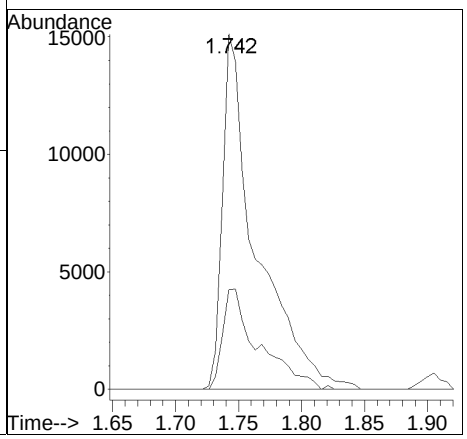


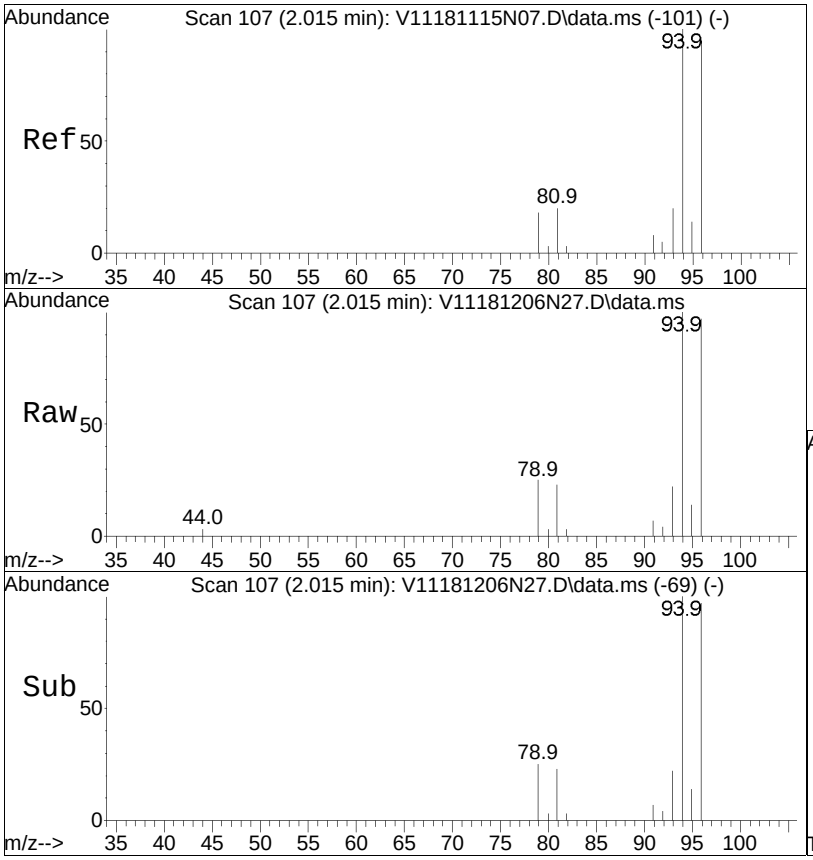


#4
Vinyl chloride
Concen: 66.99 ug/L
RT: 1.742 min Scan# 55
Delta R.T. 0.000 min
Lab File: V11181206N27.D
Acq: 07 Dec 2018 01:52 am

Tgt Ion: 62 Resp: 28186

Ion	Ratio	Lower	Upper
62	100		
64	30.4	9.9	49.9

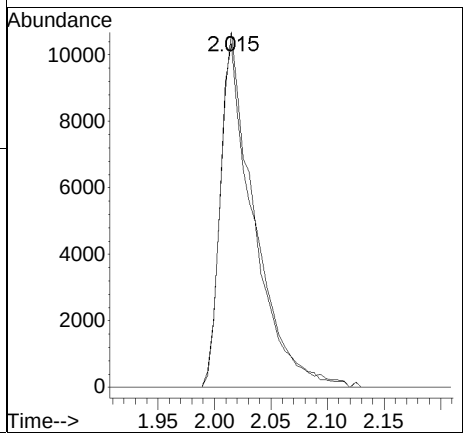


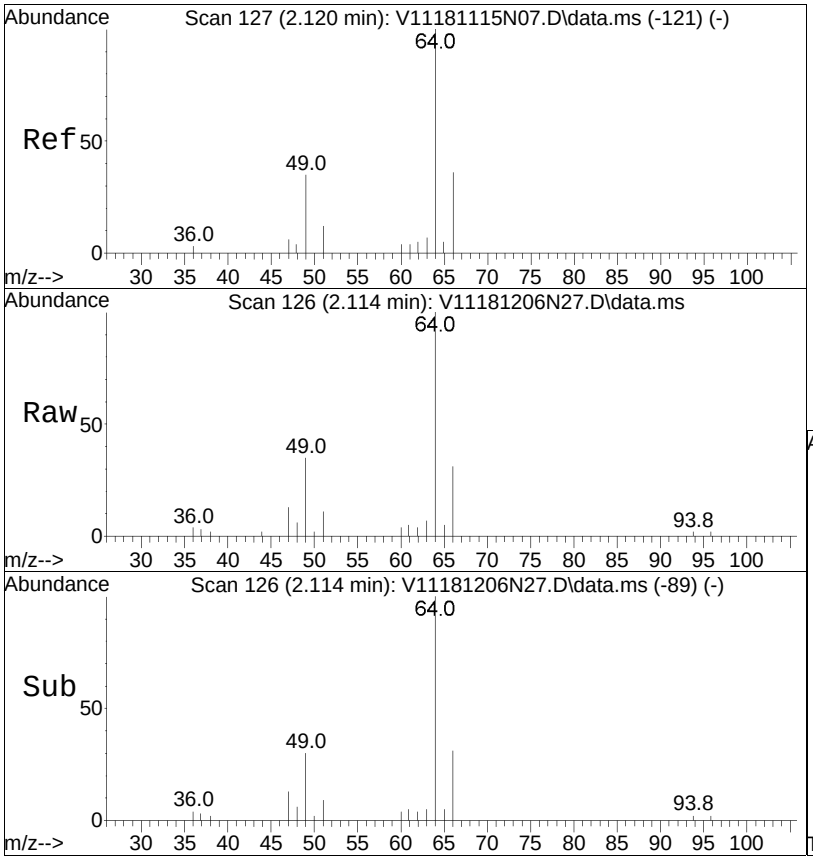


#5
Bromomethane
Concen: 64.46 ug/L
RT: 2.015 min Scan# 107
Delta R.T. -0.000 min
Lab File: V11181206N27.D
Acq: 07 Dec 2018 01:52 am

Tgt Ion: 94 Resp: 22425

Ion	Ratio	Lower	Upper
94	100		
96	95.3	72.6	112.6

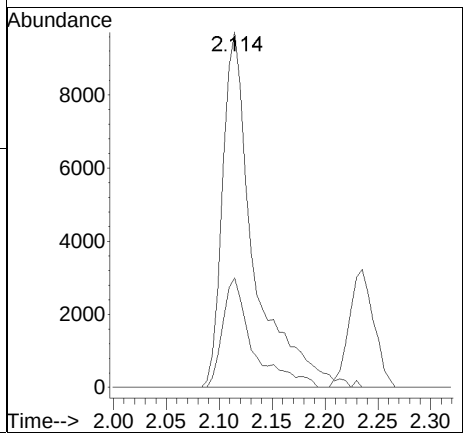


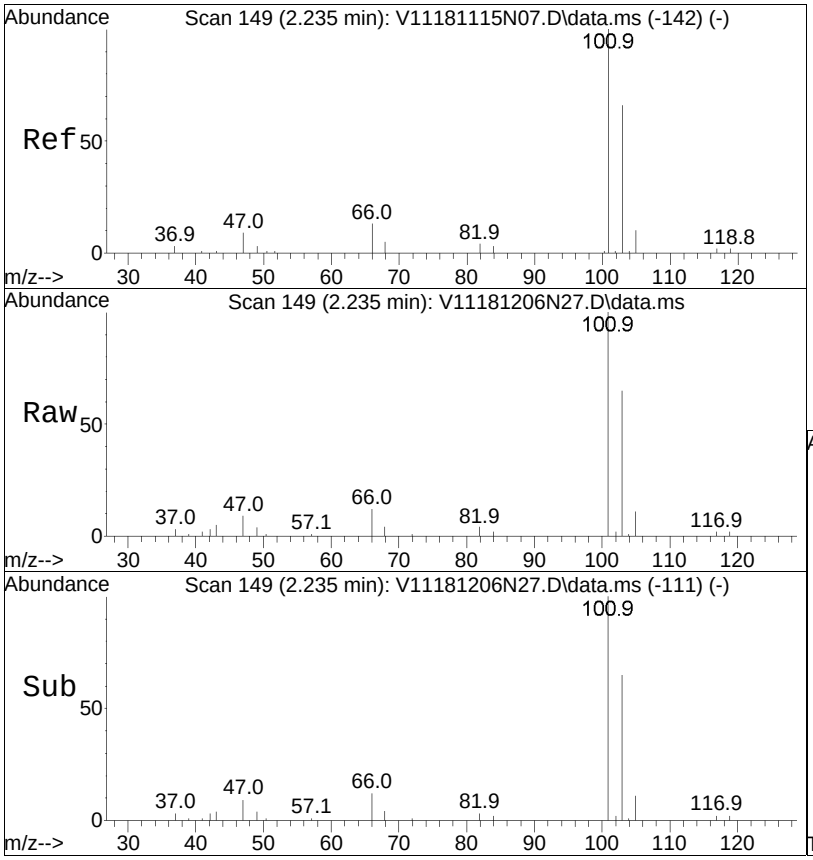


#6
Chloroethane
Concen: 70.71 ug/L
RT: 2.114 min Scan# 126
Delta R.T. -0.006 min
Lab File: V11181206N27.D
Acq: 07 Dec 2018 01:52 am

Tgt Ion: 64 Resp: 20150

Ion	Ratio	Lower	Upper
64	100		
66	29.6	10.2	50.2

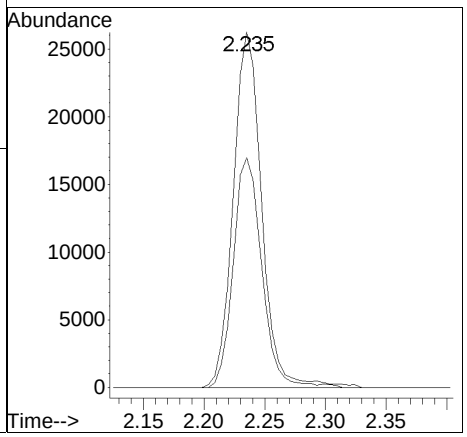


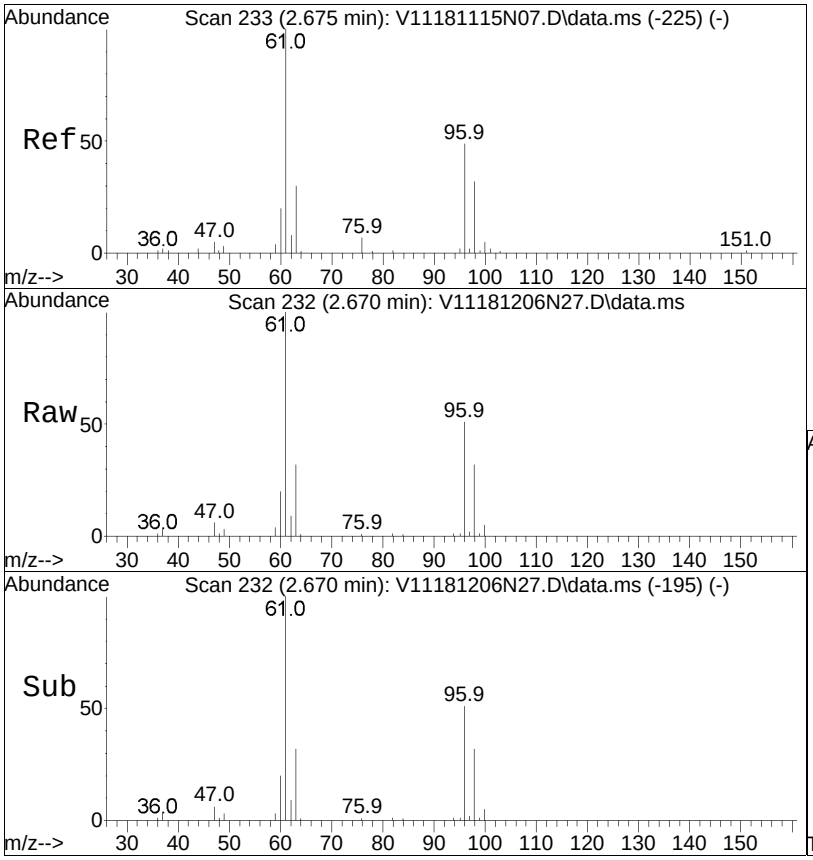


#7
Trichlorofluoromethane
Concen: 49.85 ug/L
RT: 2.235 min Scan# 149
Delta R.T. 0.000 min
Lab File: V11181206N27.D
Acq: 07 Dec 2018 01:52 am

Tgt Ion:101 Resp: 42780

Ion	Ratio	Lower	Upper
101	100		
103	64.7	51.8	77.6

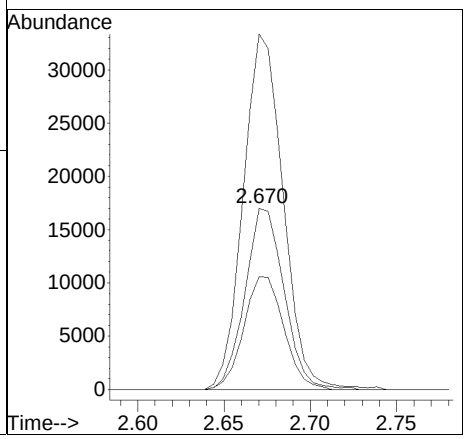


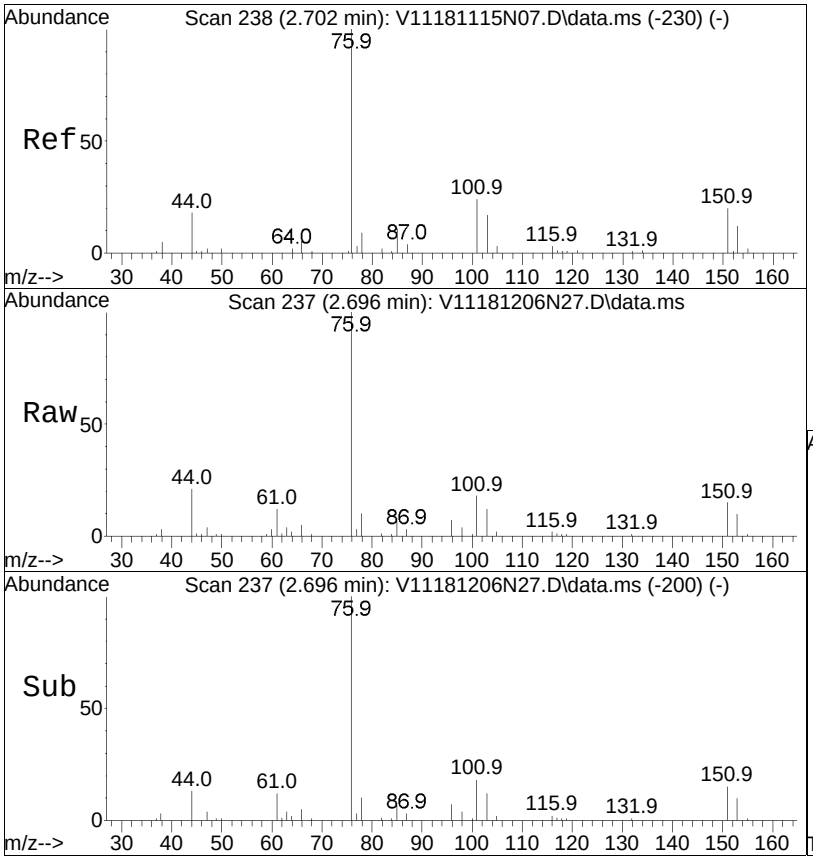


#10
1,1-Dichloroethene
Concen: 63.01 ug/L
RT: 2.670 min Scan# 232
Delta R.T. -0.005 min
Lab File: V11181206N27.D
Acq: 07 Dec 2018 01:52 am

Tgt Ion: 96 Resp: 26809

Ion	Ratio	Lower	Upper
96	100		
61	199.8	157.7	236.5
63	63.6	47.9	71.9

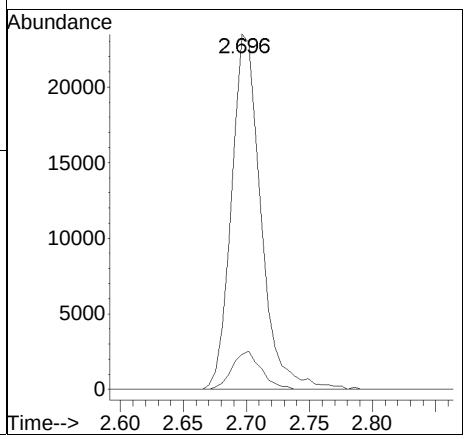


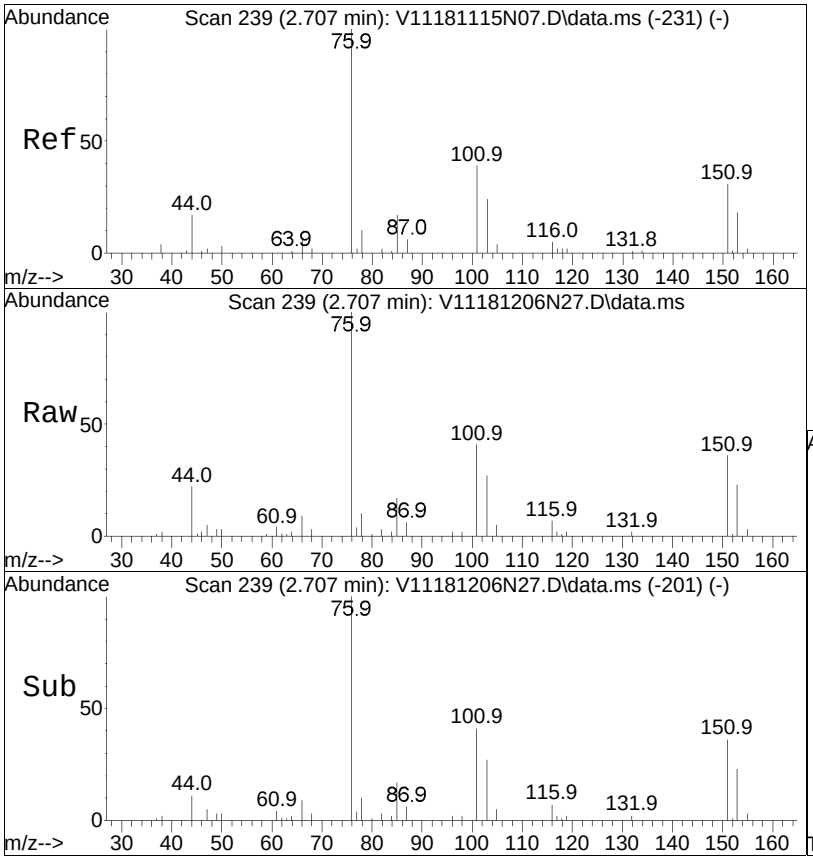


#11
Carbon disulfide
Concen: 28.99 ug/L
RT: 2.696 min Scan# 237
Delta R.T. -0.006 min
Lab File: V11181206N27.D
Acq: 07 Dec 2018 01:52 am

Tgt Ion: 76 Resp: 38285

Ion	Ratio	Lower	Upper
76	100		
78	10.6	6.4	13.4

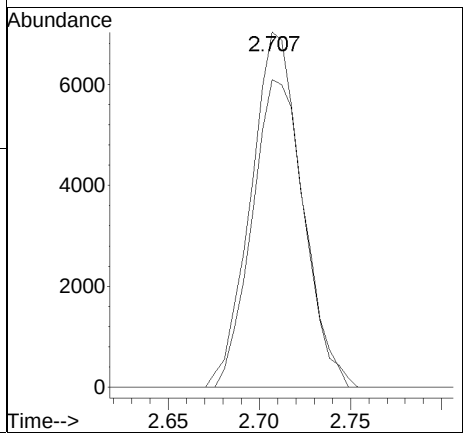


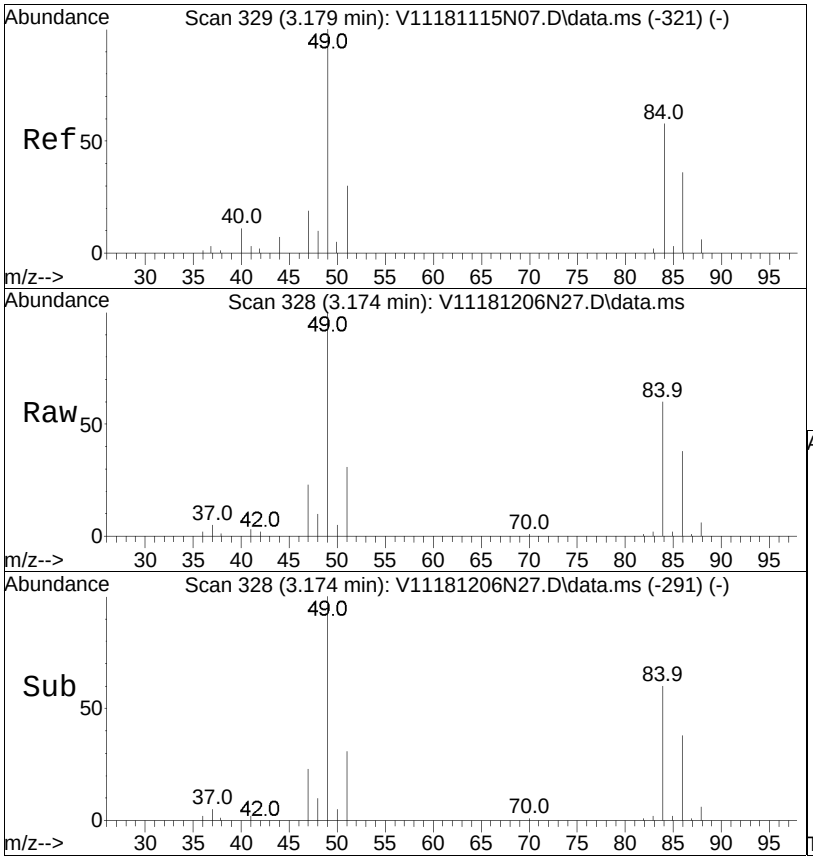


#12
Freon-113
Concen: 30.03 ug/L
RT: 2.707 min Scan# 239
Delta R.T. -0.000 min
Lab File: V11181206N27.D
Acq: 07 Dec 2018 01:52 am

Tgt Ion:101 Resp: 13740

Ion	Ratio	Lower	Upper
101	100		
151	89.1	62.2	93.4

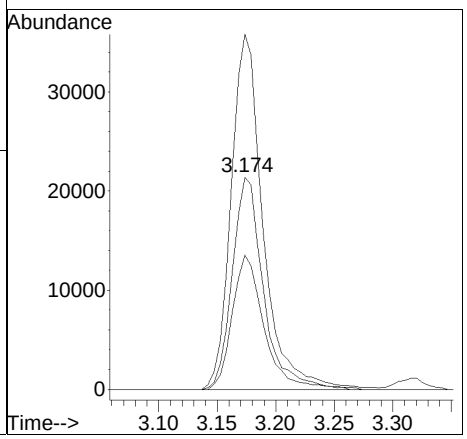


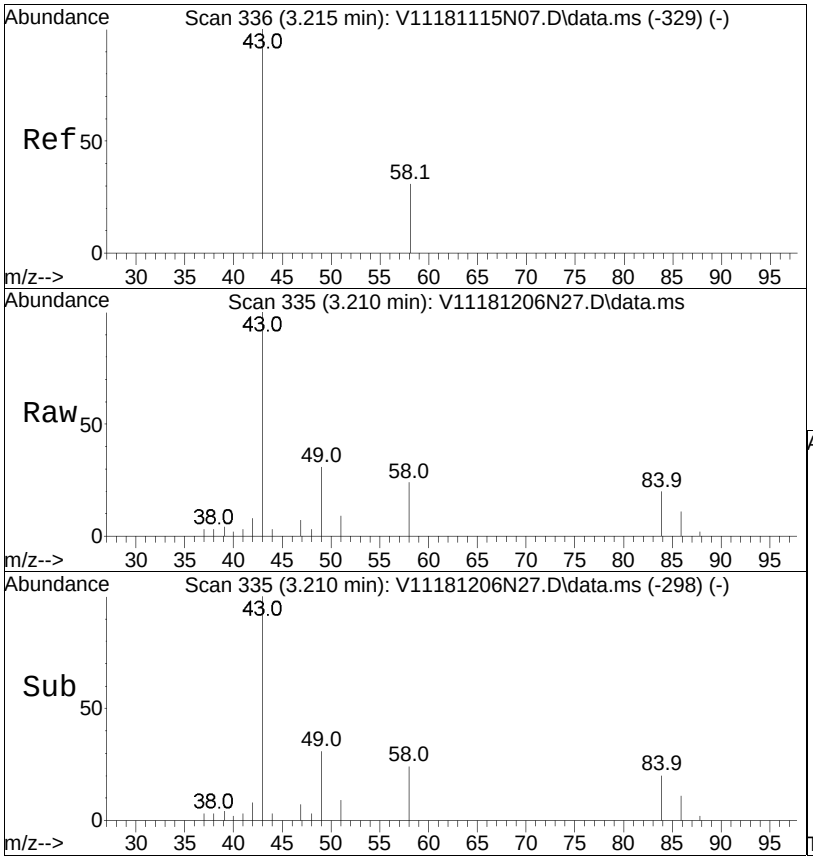


#15
Methylene chloride
Concen: 68.07 ug/L
RT: 3.174 min Scan# 328
Delta R.T. -0.005 min
Lab File: V11181206N27.D
Acq: 07 Dec 2018 01:52 am

Tgt Ion: 84 Resp: 39731

Ion	Ratio	Lower	Upper
84	100		
86	64.4	41.1	85.3
49	171.0	124.2	258.0

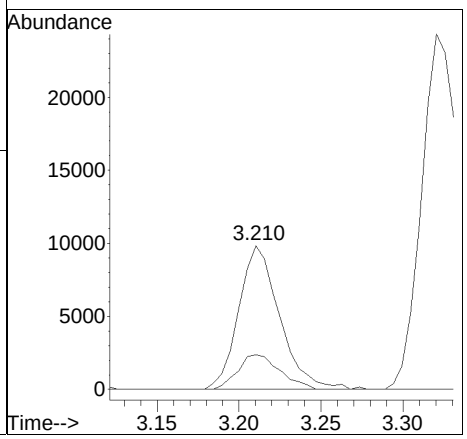


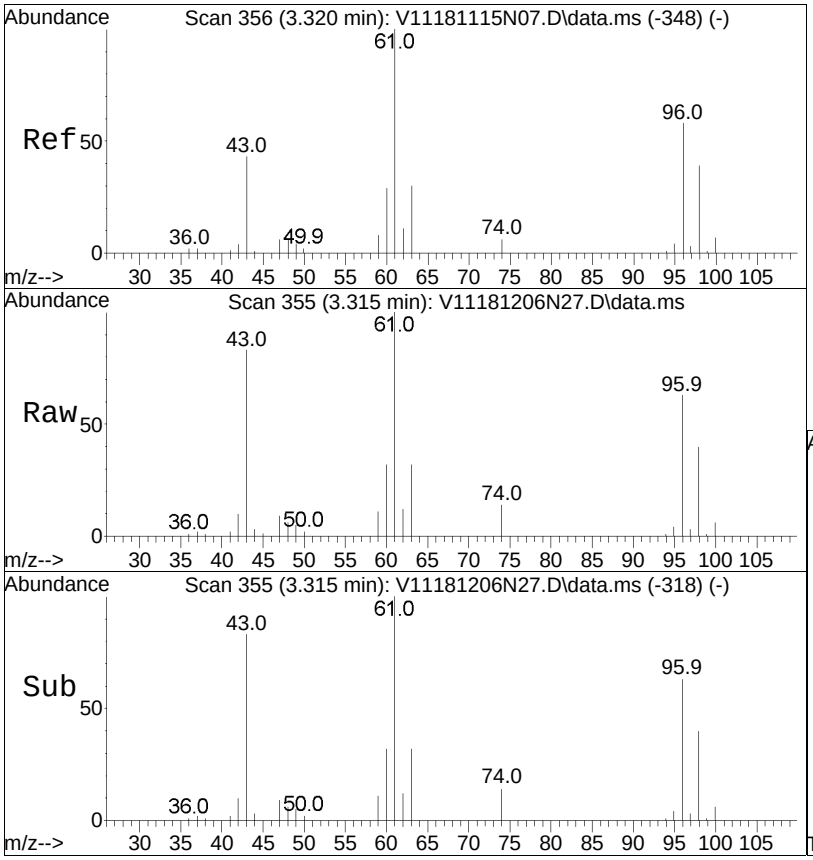


#17
Acetone
Concen: 102.19 ug/L
RT: 3.210 min Scan# 335
Delta R.T. -0.005 min
Lab File: V11181206N27.D
Acq: 07 Dec 2018 01:52 am

Tgt Ion: 43 Resp: 17125

Ion	Ratio	Lower	Upper
43	100		
58	24.9	20.8	31.2

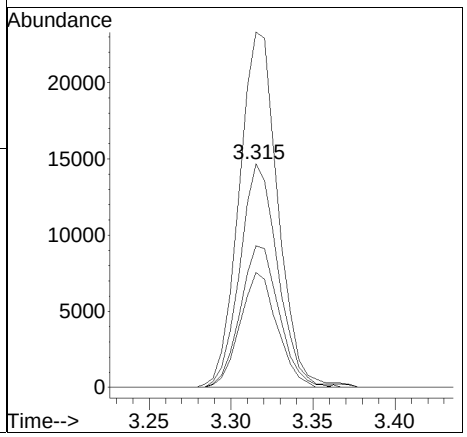


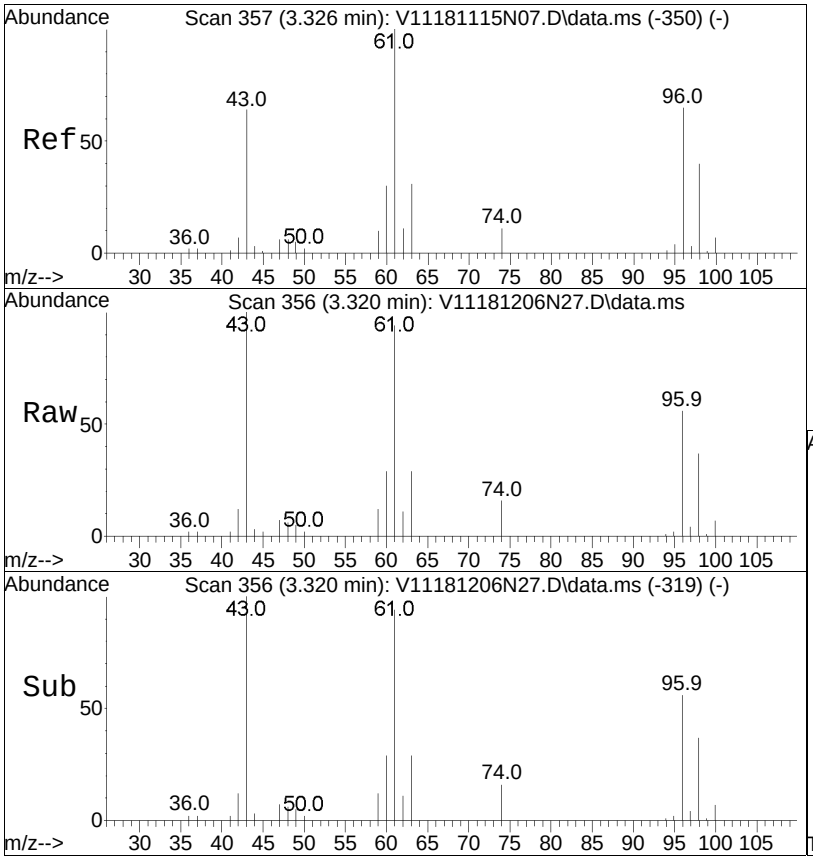


#18
trans-1,2-Dichloroethene
Concen: 44.05 ug/L
RT: 3.315 min Scan# 355
Delta R.T. -0.005 min
Lab File: V11181206N27.D
Acq: 07 Dec 2018 01:52 am

Tgt Ion: 96 Resp: 23756

Ion	Ratio	Lower	Upper
96	100		
61	161.7	111.1	230.8
98	64.3	41.8	86.8
63	49.9	33.3	69.1

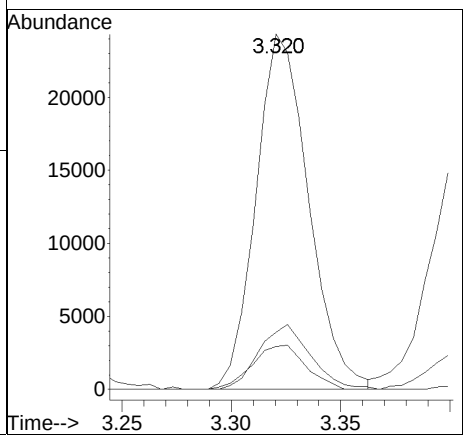


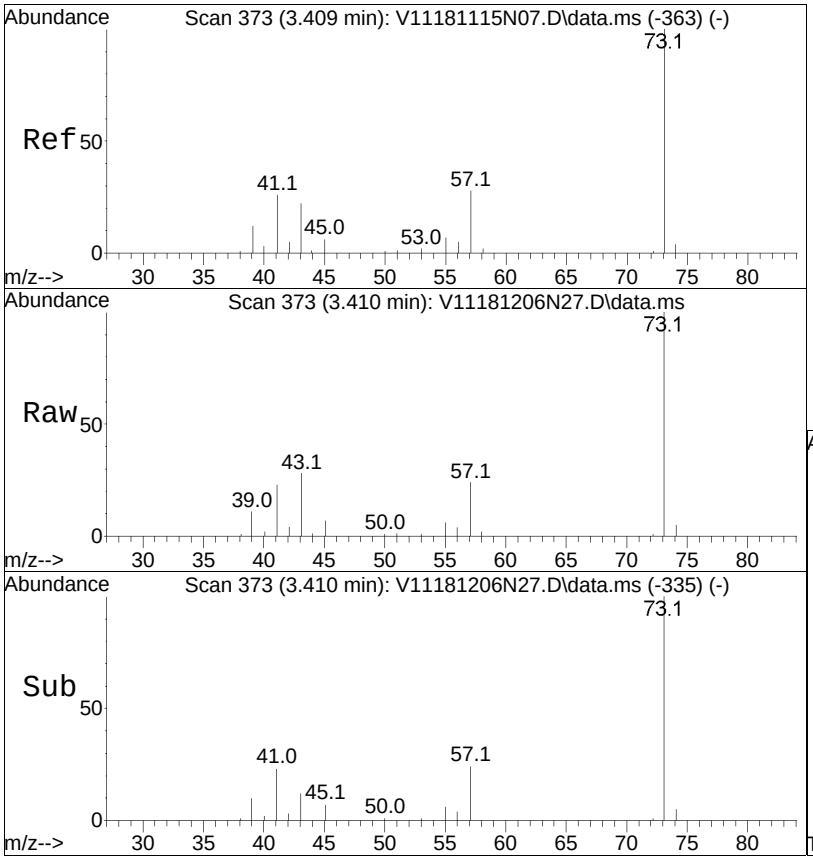


#19
Methyl acetate
Concen: 87.67 ug/L
RT: 3.320 min Scan# 356
Delta R.T. -0.006 min
Lab File: V11181206N27.D
Acq: 07 Dec 2018 01:52 am

Tgt Ion: 43 Resp: 40765

Ion	Ratio	Lower	Upper
43	100		
74	17.9	11.3	16.9#
59	12.7	10.4	15.6

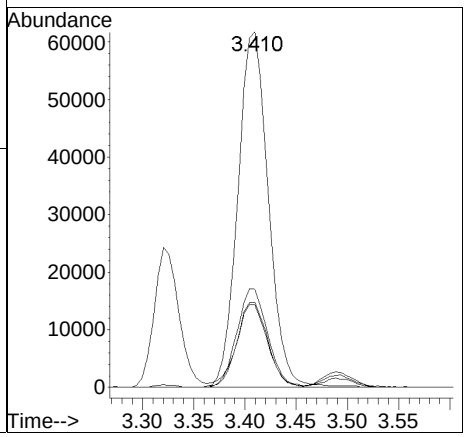


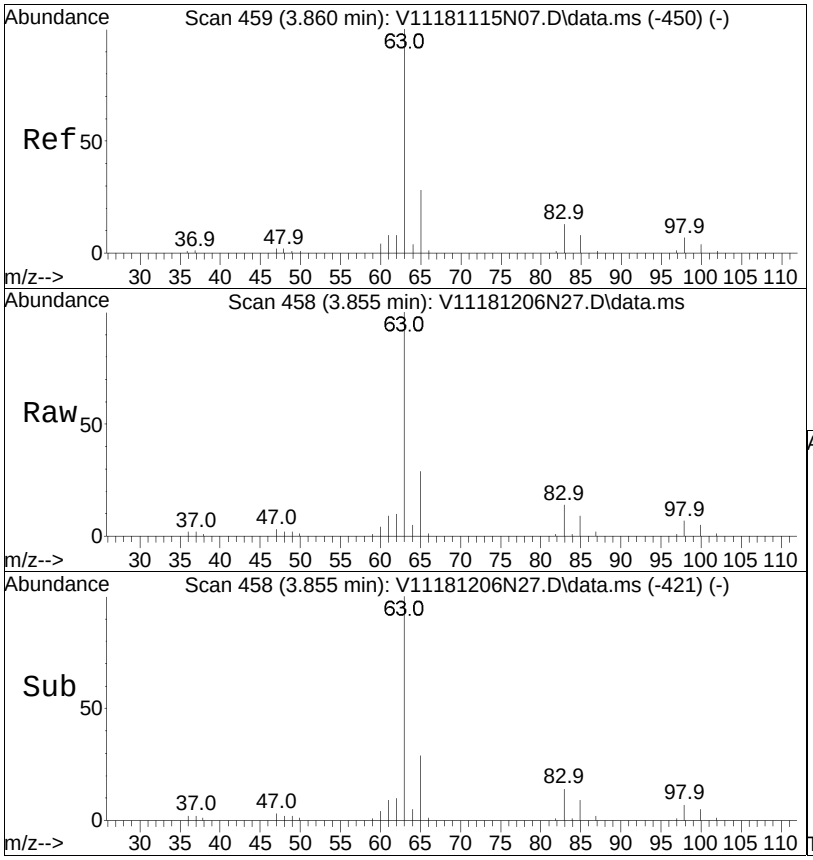


#20
Methyl tert-butyl ether
Concen: 73.40 ug/L
RT: 3.410 min Scan# 373
Delta R.T. 0.001 min
Lab File: V11181206N27.D
Acq: 07 Dec 2018 01:52 am

Tgt Ion: 73 Resp: 128224

Ion	Ratio	Lower	Upper
73	100		
57	24.3	19.6	40.6
43	28.4	18.5	38.3
41	23.5	20.3	42.1

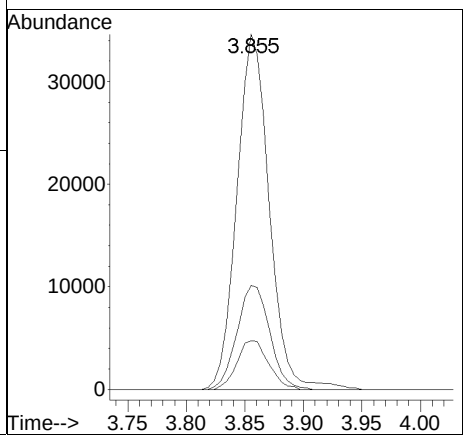


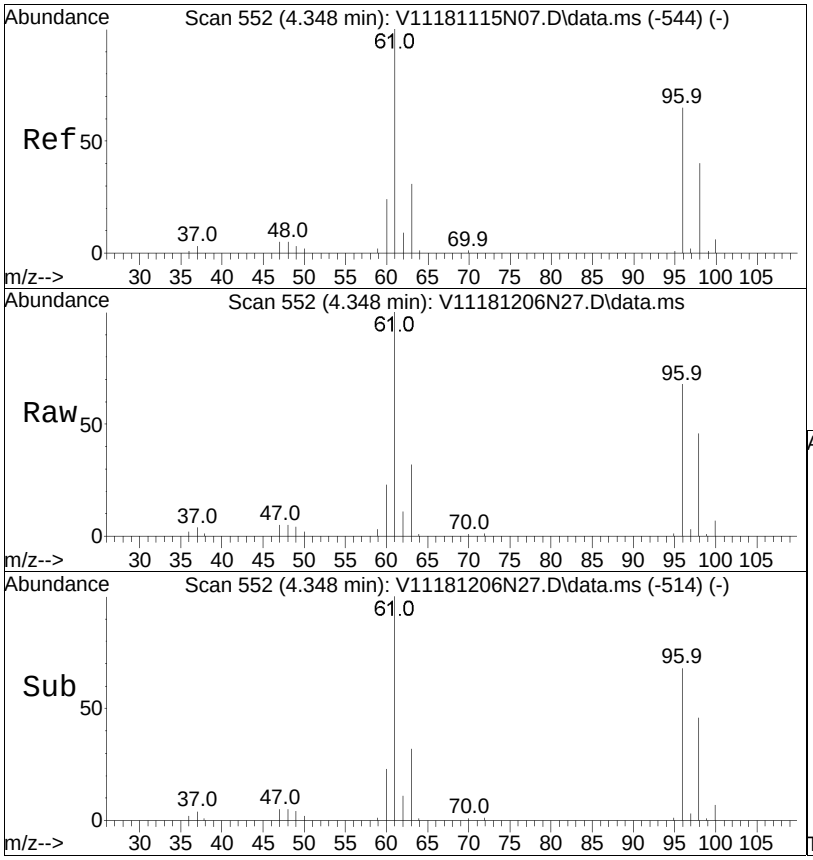


#23
1,1-Dichloroethane
Concen: 55.95 ug/L
RT: 3.855 min Scan# 458
Delta R.T. -0.005 min
Lab File: V11181206N27.D
Acq: 07 Dec 2018 01:52 am

Tgt Ion: 63 Resp: 66535

Ion	Ratio	Lower	Upper
63	100		
65	29.6	9.0	49.0
83	13.4	0.0	31.4

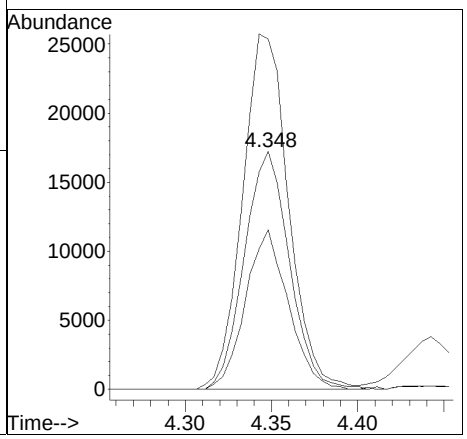


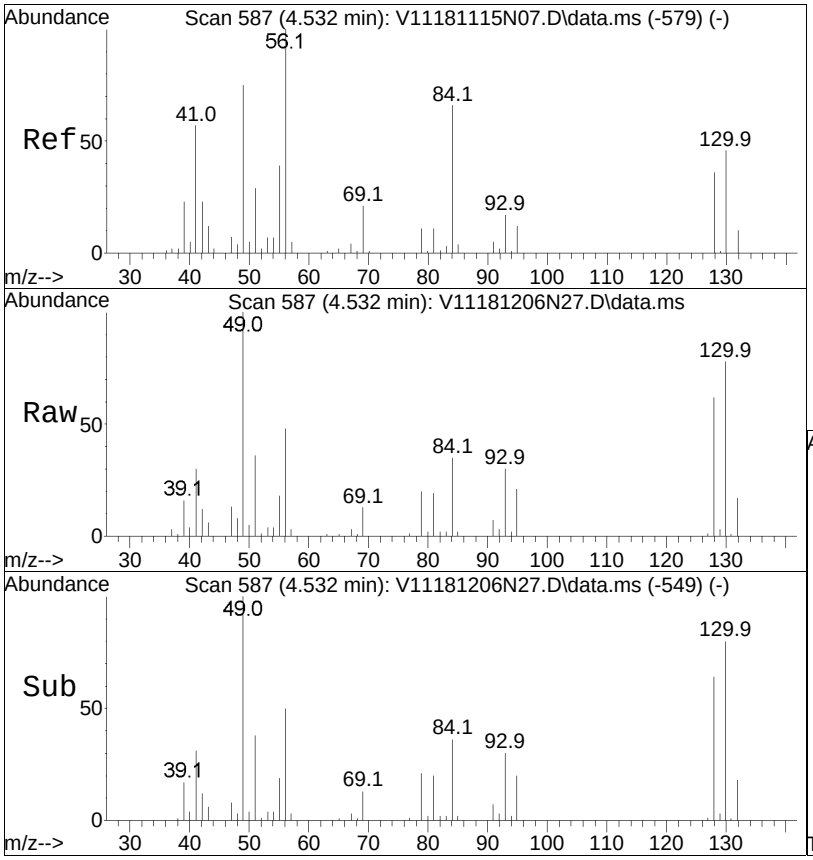


#28
cis-1,2-Dichloroethene
Concen: 48.40 ug/L
RT: 4.348 min Scan# 552
Delta R.T. 0.000 min
Lab File: V11181206N27.D
Acq: 07 Dec 2018 01:52 am

Tgt Ion: 96 Resp: 31351

Ion	Ratio	Lower	Upper
96	100		
61	152.5	126.3	189.5
98	63.8	51.0	76.6

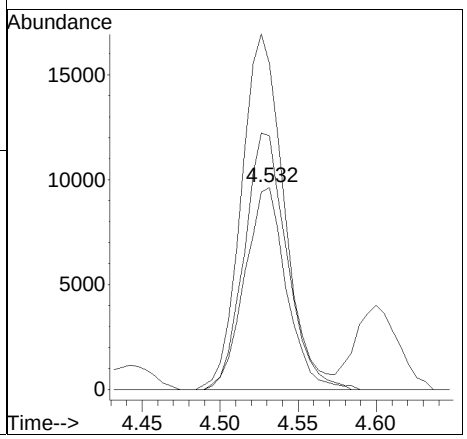


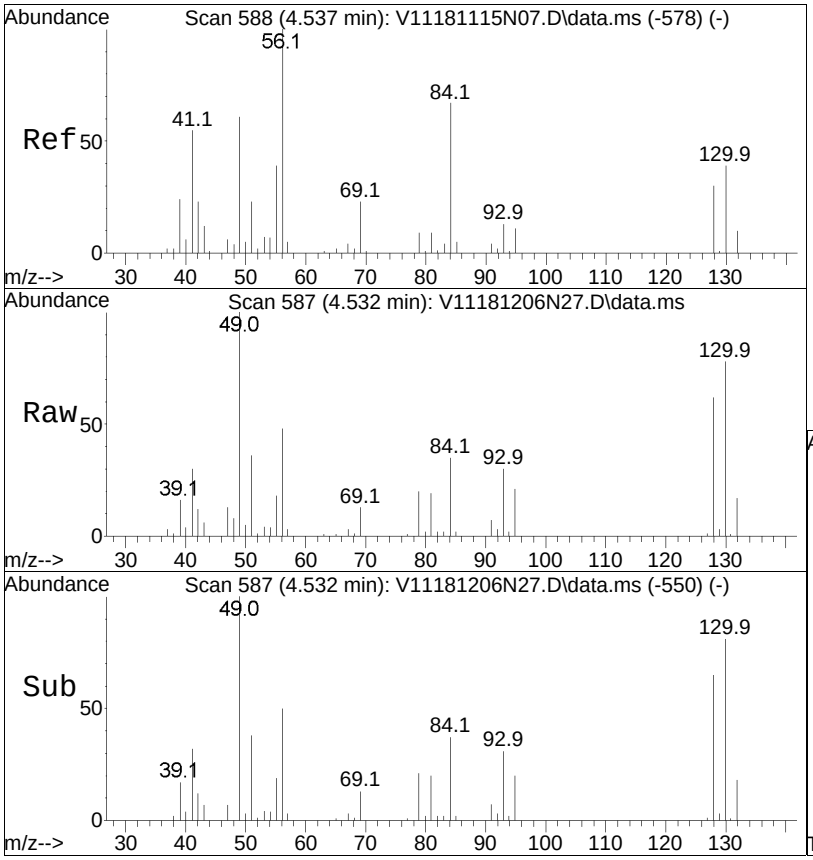


#30
Bromochloromethane
Concen: 56.68 ug/L
RT: 4.532 min Scan# 587
Delta R.T. -0.000 min
Lab File: V11181206N27.D
Acq: 07 Dec 2018 01:52 am

Tgt Ion:128 Resp: 17950

Ion	Ratio	Lower	Upper
128	100		
49	179.9	201.3	301.9#
130	129.3	106.2	159.2

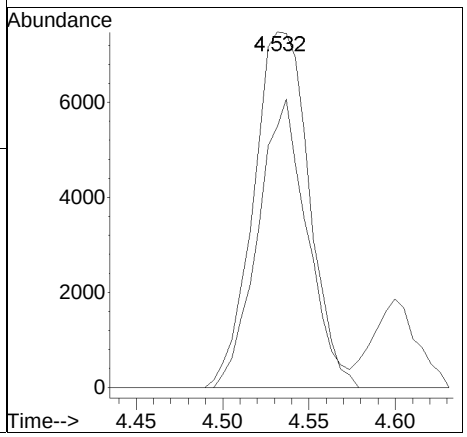


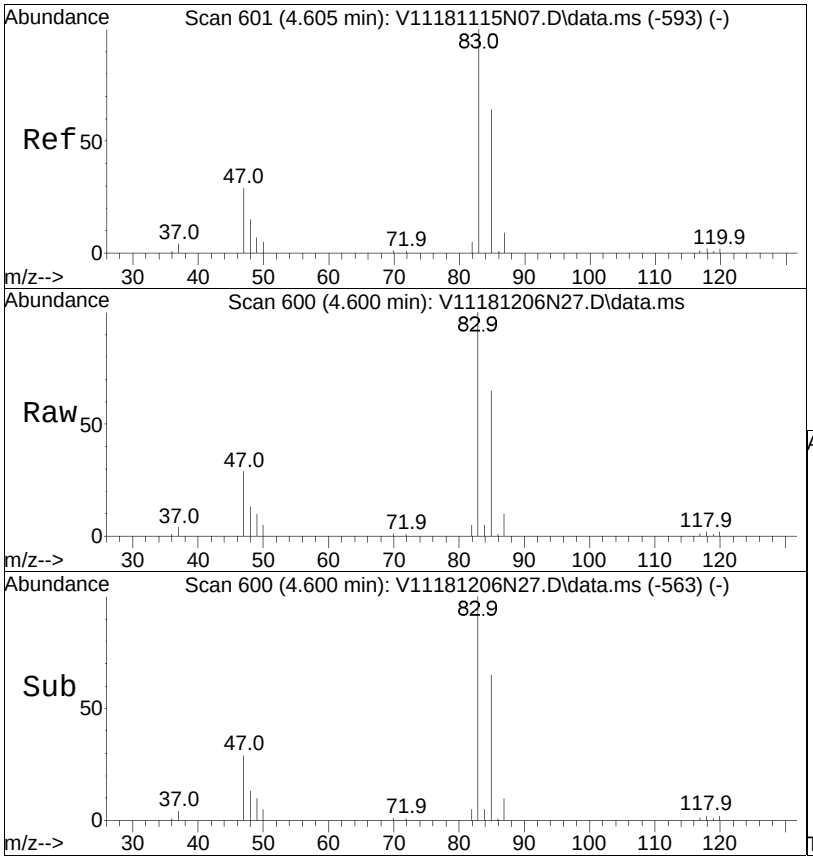


#31
Cyclohexane
Concen: 15.72 ug/L
RT: 4.532 min Scan# 587
Delta R.T. -0.005 min
Lab File: V11181206N27.D
Acq: 07 Dec 2018 01:52 am

Tgt Ion: 56 Resp: 16785

Ion	Ratio	Lower	Upper
56	100		
84	72.3	40.5	84.1

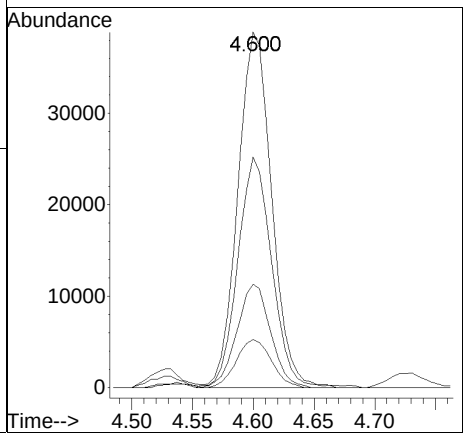


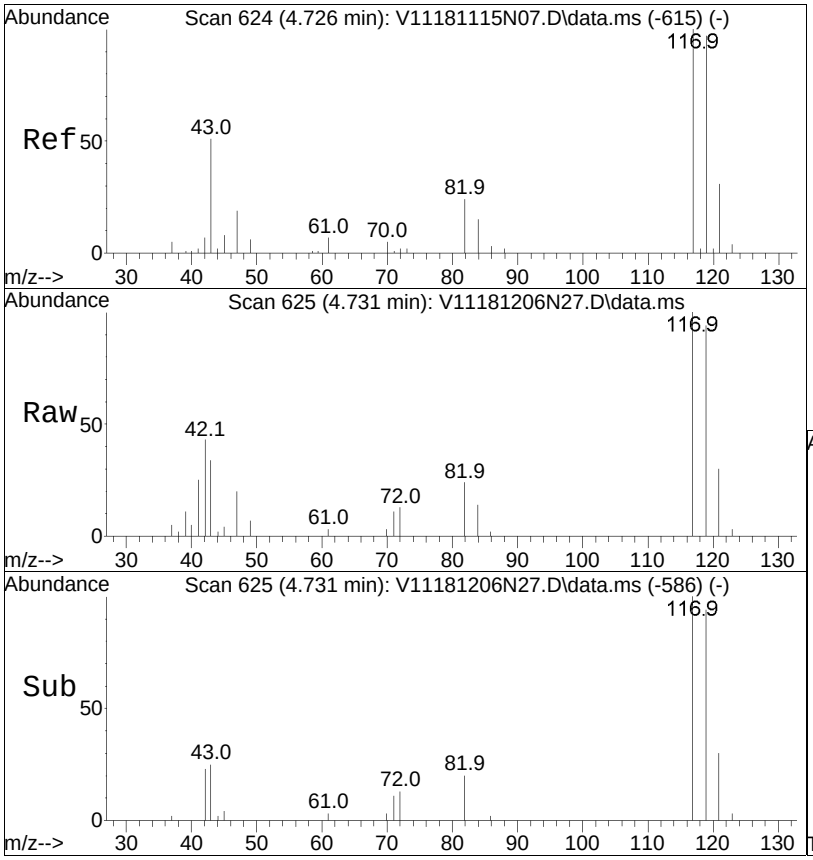


#32
Chloroform
Concen: 63.38 ug/L
RT: 4.600 min Scan# 600
Delta R.T. -0.005 min
Lab File: V11181206N27.D
Acq: 07 Dec 2018 01:52 am

Tgt Ion: 83 Resp: 75573

Ion	Ratio	Lower	Upper
83	100		
85	64.5	41.9	87.1
47	28.7	20.9	43.3
48	13.8	9.9	20.5

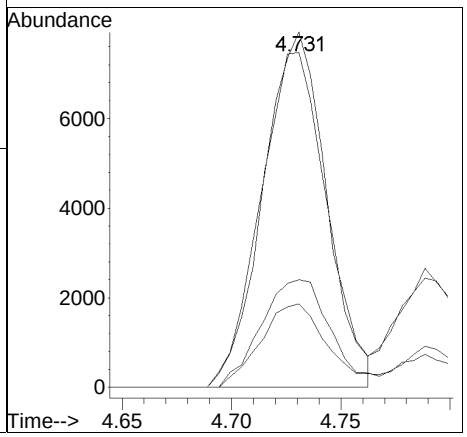


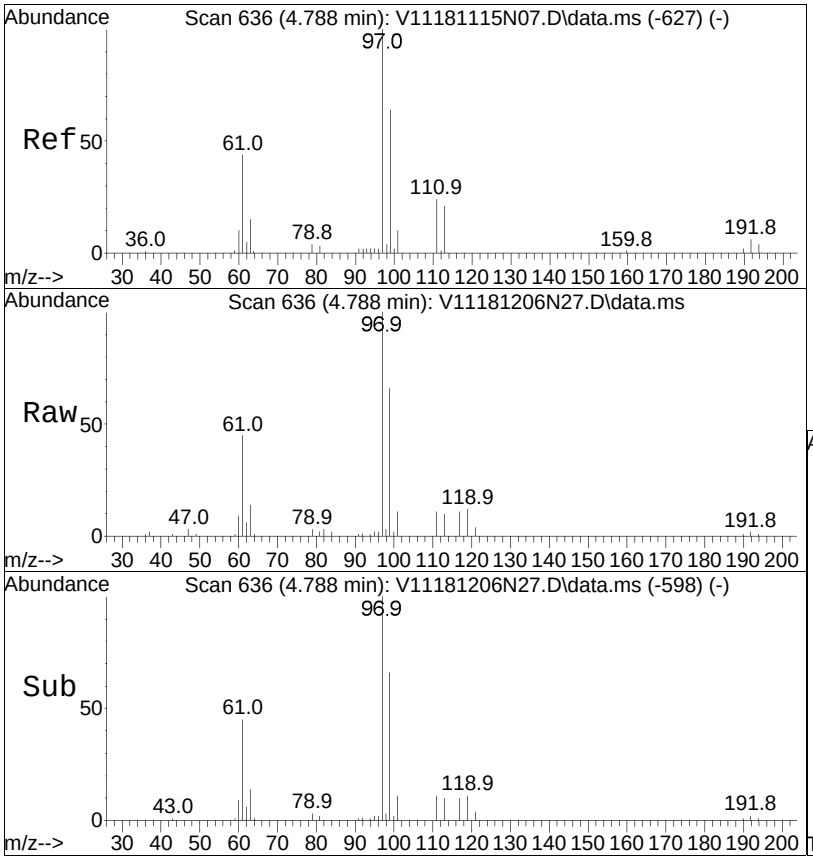


#34
Carbon tetrachloride
Concen: 18.21 ug/L
RT: 4.731 min Scan# 625
Delta R.T. 0.005 min
Lab File: V11181206N27.D
Acq: 07 Dec 2018 01:52 am

Tgt Ion:117 Resp: 16248

Ion	Ratio	Lower	Upper
117	100		
119	95.1	64.0	132.8
121	32.9	20.7	42.9
82	24.9	16.3	33.8

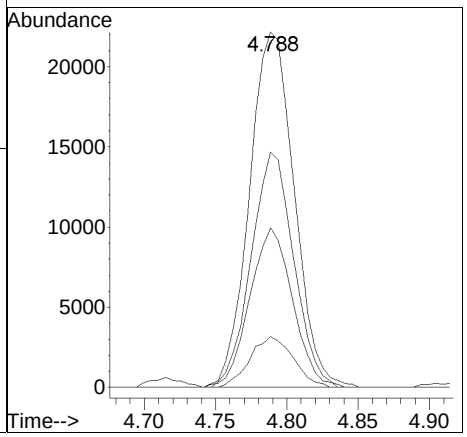


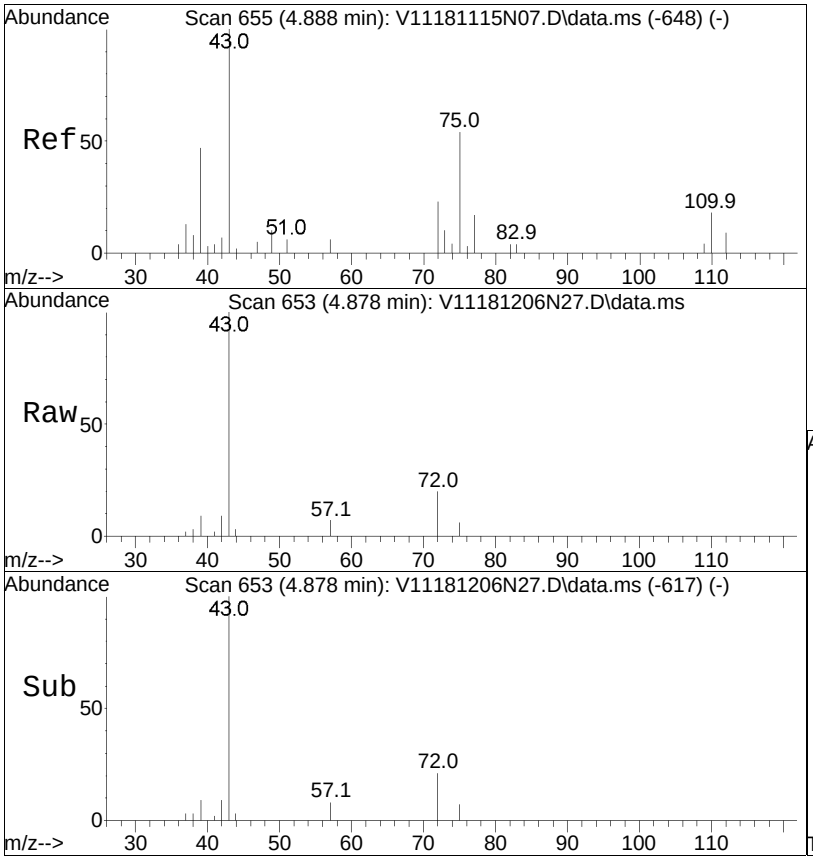


#37
1,1,1-Trichloroethane
Concen: 45.61 ug/L
RT: 4.788 min Scan# 636
Delta R.T. 0.000 min
Lab File: V11181206N27.D
Acq: 07 Dec 2018 01:52 am

Tgt Ion: 97 Resp: 48487

Ion	Ratio	Lower	Upper
97	100		
99	62.9	41.5	86.1
61	42.9	32.2	67.0
63	13.8	10.1	20.9

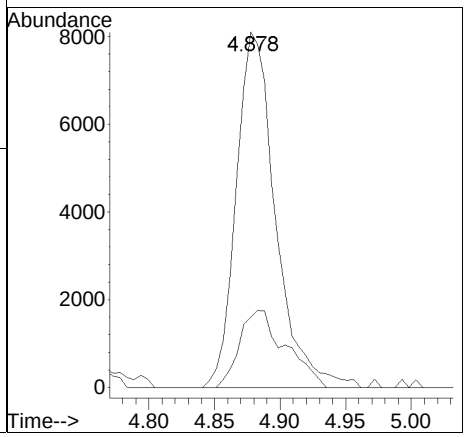


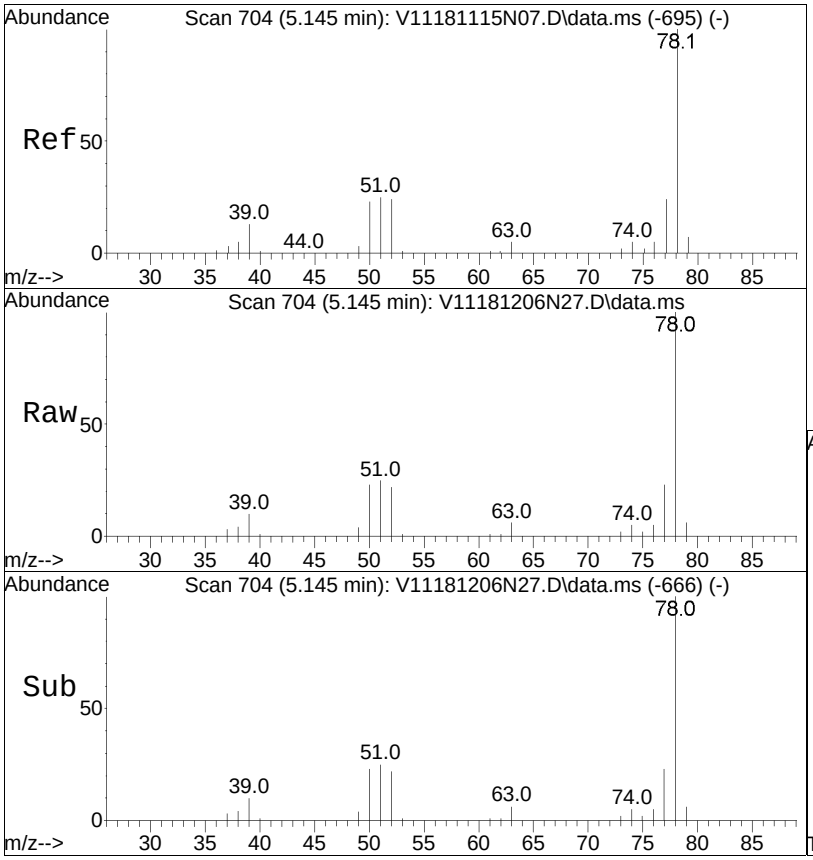


#39
2-Butanone
Concen: 60.52 ug/L
RT: 4.878 min Scan# 653
Delta R.T. -0.010 min
Lab File: V11181206N27.D
Acq: 07 Dec 2018 01:52 am

Tgt Ion: 43 Resp: 16901

Ion	Ratio	Lower	Upper
43	100		
72	25.3	21.0	31.6

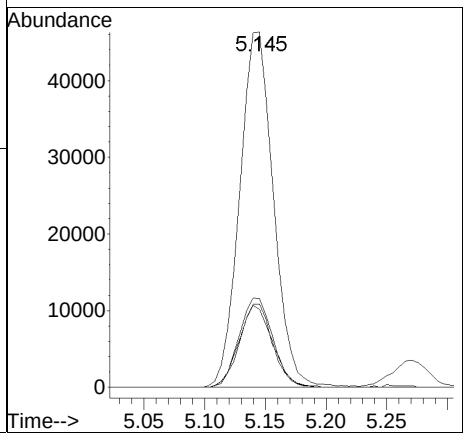


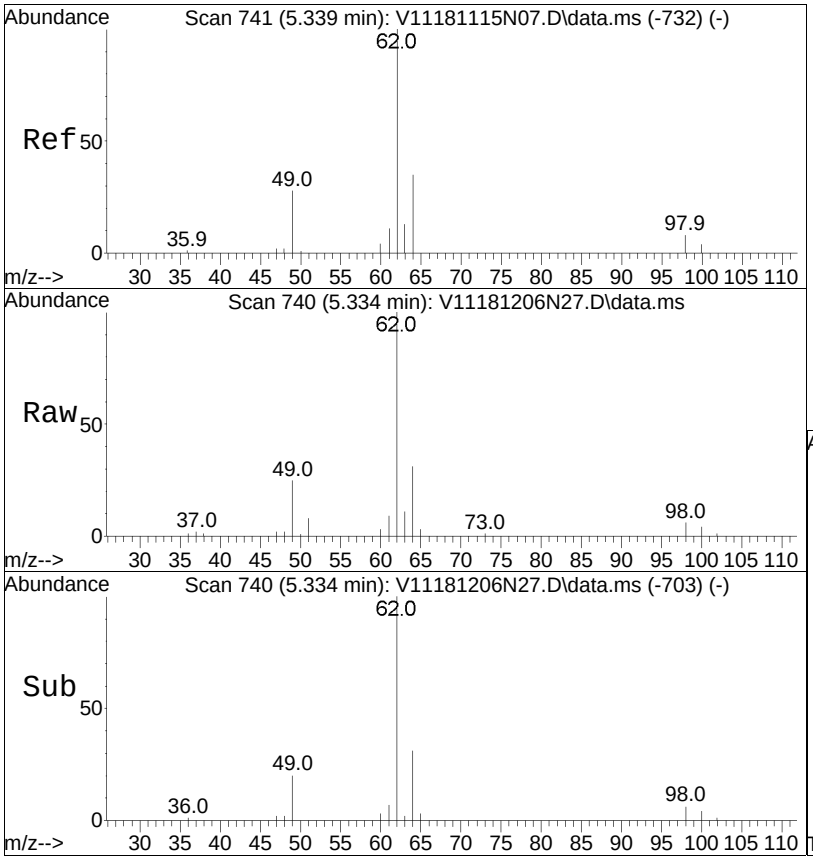


#41
Benzene
Concen: 40.16 ug/L
RT: 5.145 min Scan# 704
Delta R.T. 0.000 min
Lab File: V11181206N27.D
Acq: 07 Dec 2018 01:52 am

Tgt Ion: 78 Resp: 89867

Ion	Ratio	Lower	Upper
78	100		
77	23.2	15.1	31.3
51	25.3	15.8	32.8
52	22.8	15.6	32.4

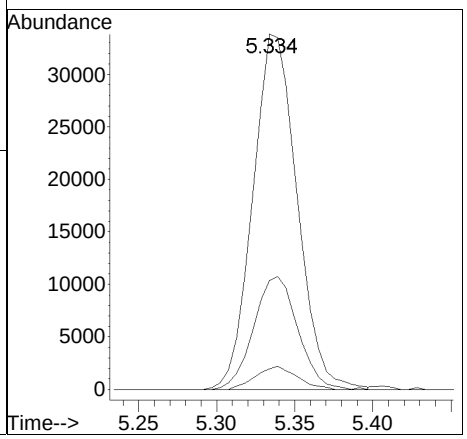


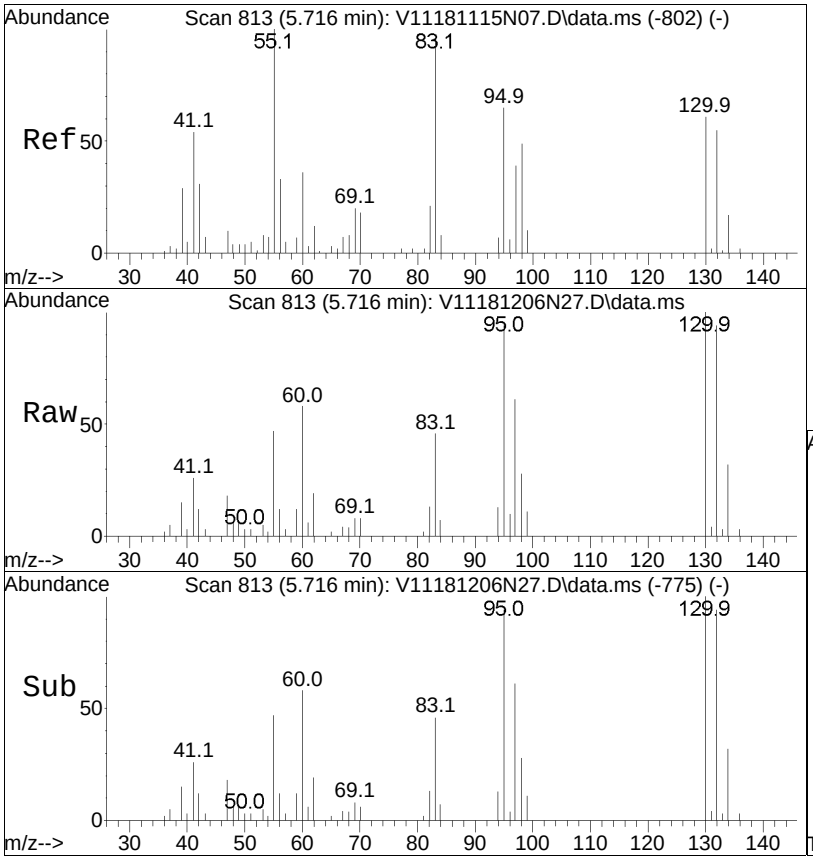


#44
1,2-Dichloroethane
Concen: 61.44 ug/L
RT: 5.334 min Scan# 740
Delta R.T. -0.005 min
Lab File: V11181206N27.D
Acq: 07 Dec 2018 01:52 am

Tgt Ion: 62 Resp: 66704

Ion	Ratio	Lower	Upper
62	100		
64	31.6	11.1	51.1
98	6.1	0.0	28.0

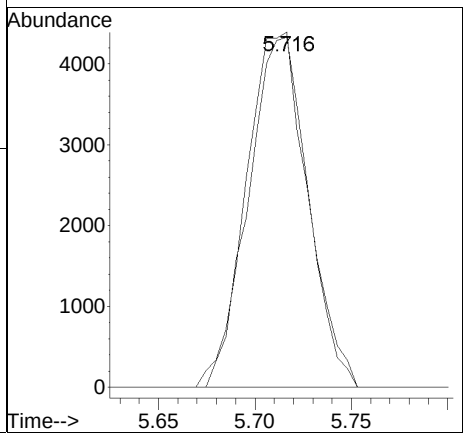


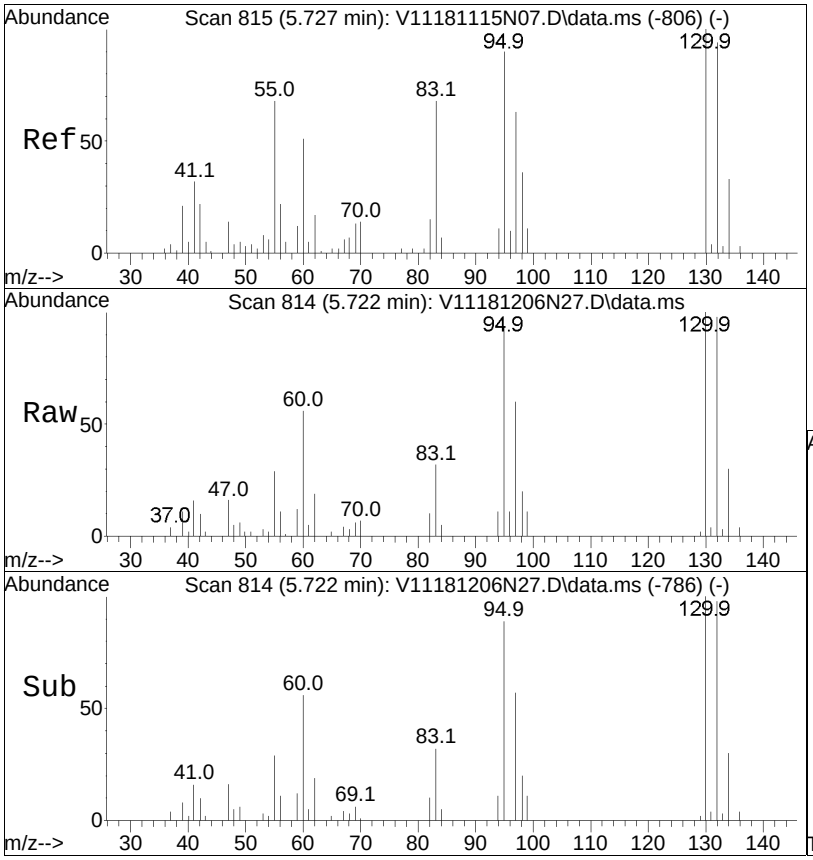


#47
Methyl cyclohexane
Concen: 10.88 ug/L
RT: 5.716 min Scan# 813
Delta R.T. 0.000 min
Lab File: V11181206N27.D
Acq: 07 Dec 2018 01:52 am

Tgt Ion: 83 Resp: 9270

Ion	Ratio	Lower	Upper
83	100		
55	105.1	88.1	132.1

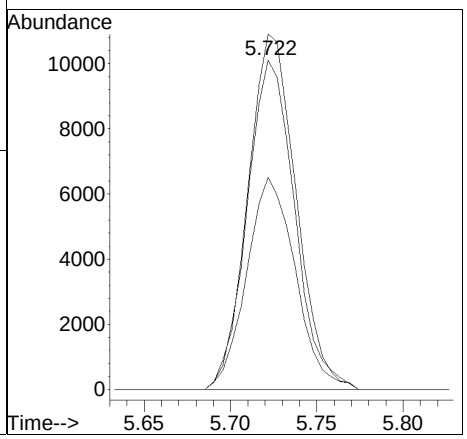


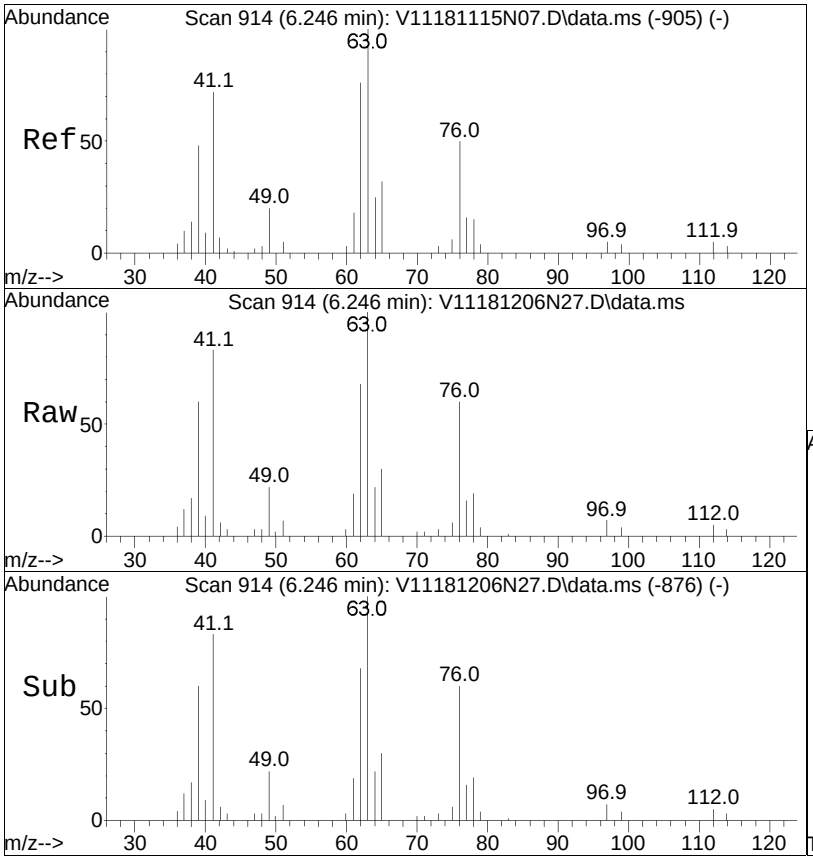


#48
Trichloroethene
Concen: 31.01 ug/L
RT: 5.722 min Scan# 814
Delta R.T. -0.005 min
Lab File: V11181206N27.D
Acq: 07 Dec 2018 01:52 am

Tgt Ion: 95 Resp: 19338

Ion	Ratio	Lower	Upper
95	100		
97	66.2	54.3	81.5
130	109.6	84.6	126.8

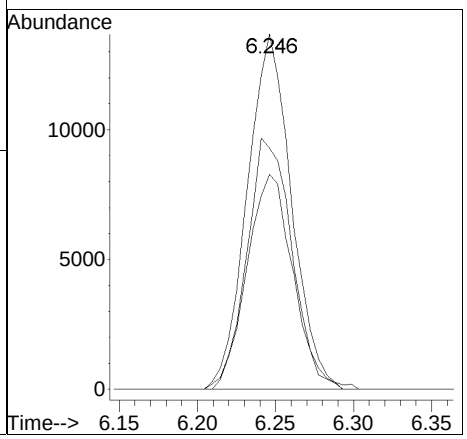


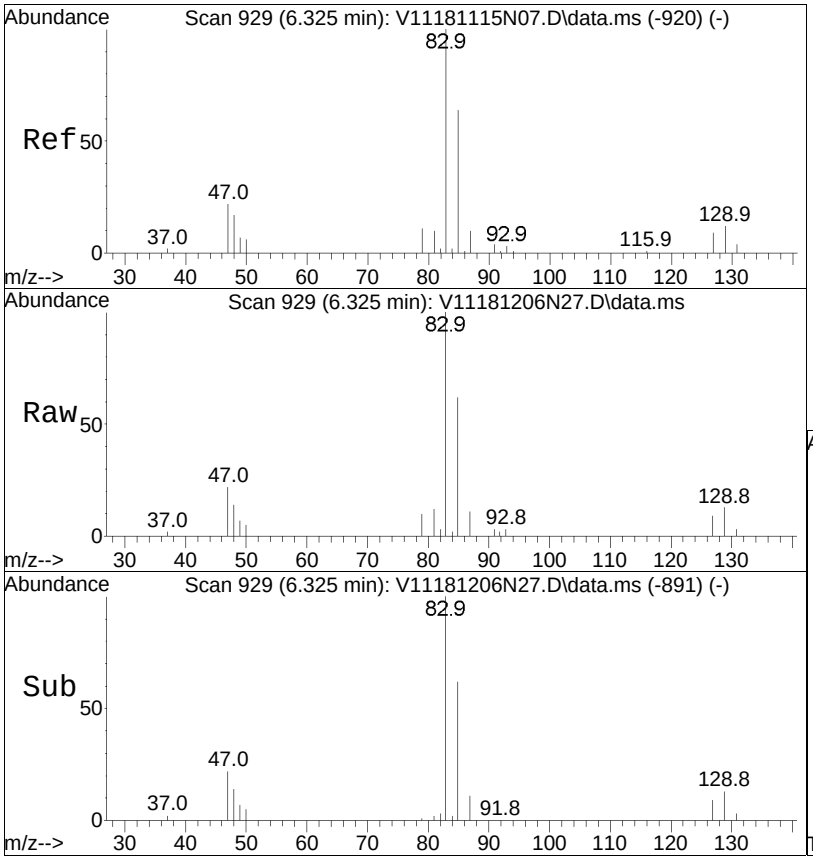


#51
1,2-Dichloropropane
Concen: 41.00 ug/L
RT: 6.246 min Scan# 914
Delta R.T. 0.000 min
Lab File: V11181206N27.D
Acq: 07 Dec 2018 01:52 am

Tgt Ion: 63 Resp: 27112

Ion	Ratio	Lower	Upper
63	100		
62	71.9	57.9	86.9
76	62.1	30.1	45.1#

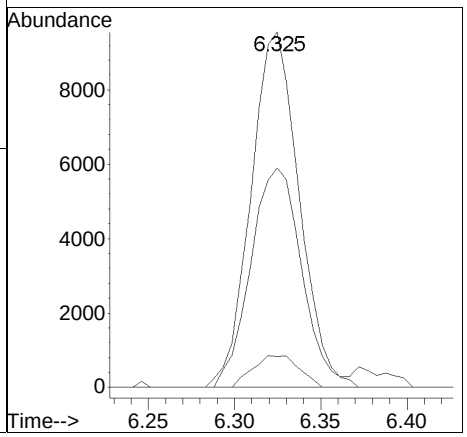


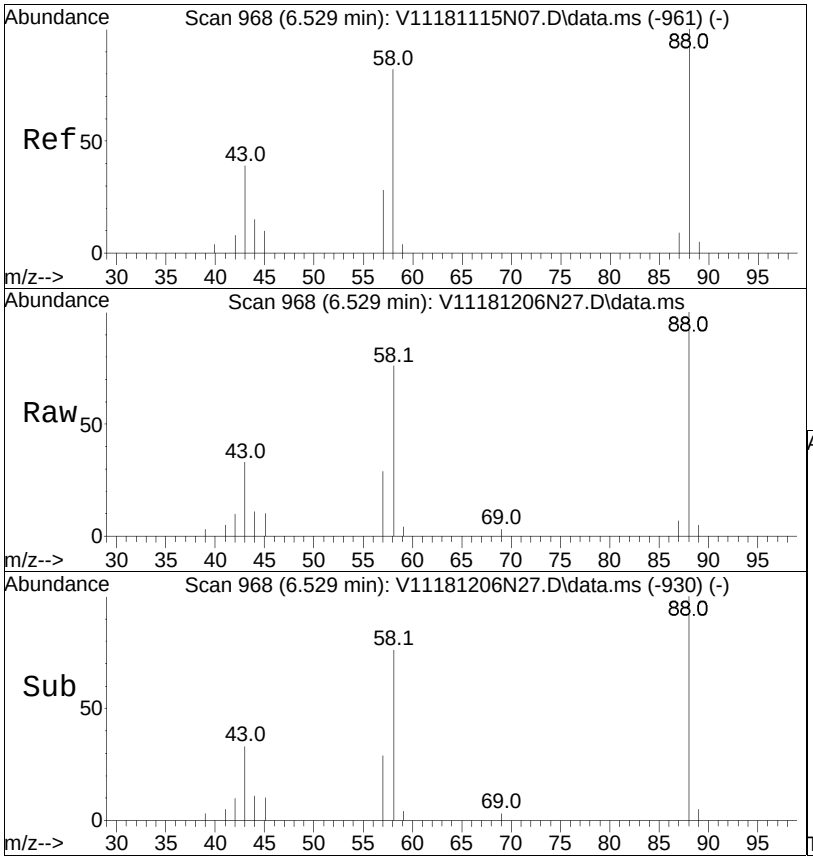


#54
Bromodichloromethane
Concen: 19.42 ug/L
RT: 6.325 min Scan# 929
Delta R.T. -0.000 min
Lab File: V11181206N27.D
Acq: 07 Dec 2018 01:52 am

Tgt Ion: 83 Resp: 18579

Ion	Ratio	Lower	Upper
83	100		
85	65.1	51.6	77.4
127	8.6	7.1	10.7

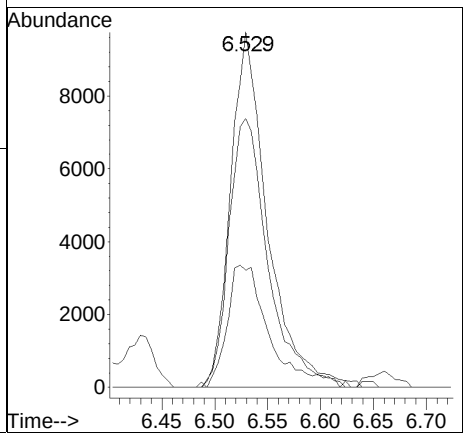


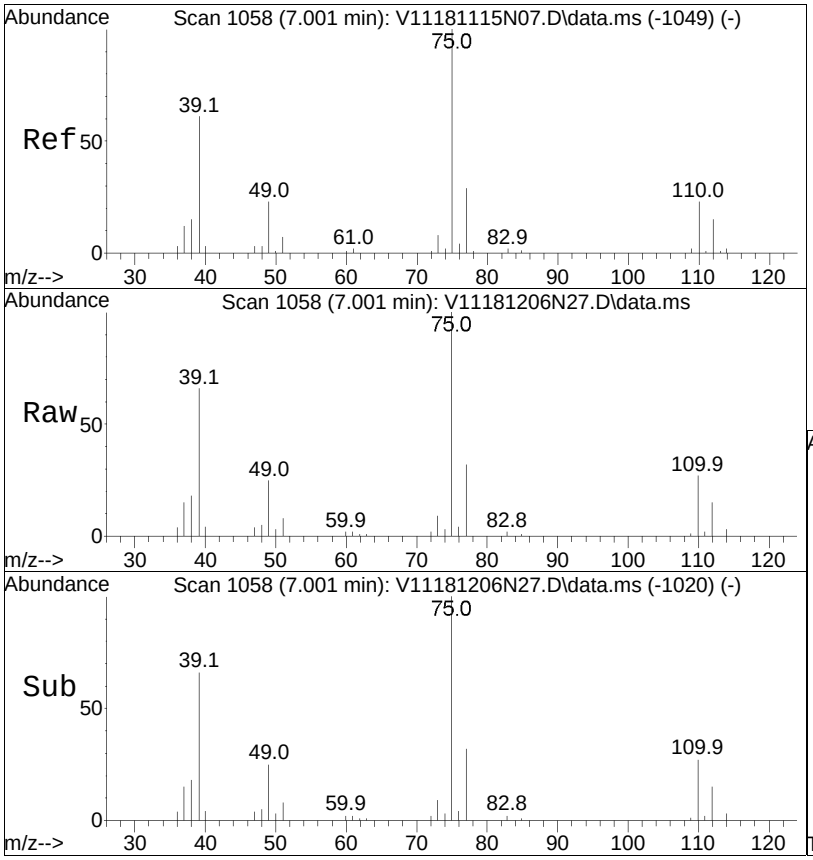


#57
1,4-Dioxane
Concen: 3827.96 ug/L
RT: 6.529 min Scan# 968
Delta R.T. 0.000 min
Lab File: V11181206N27.D
Acq: 07 Dec 2018 01:52 am

Tgt Ion: 88 Resp: 23813

Ion	Ratio	Lower	Upper
88	100		
58	80.1	75.4	113.0
43	39.2	33.5	50.3

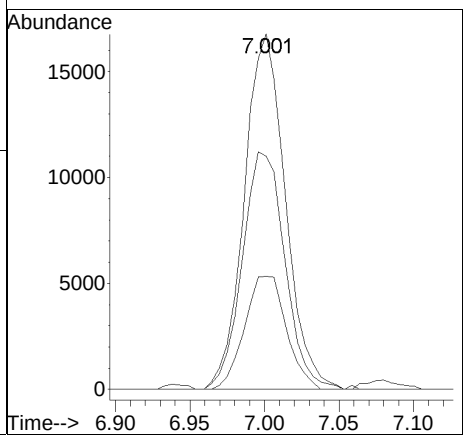


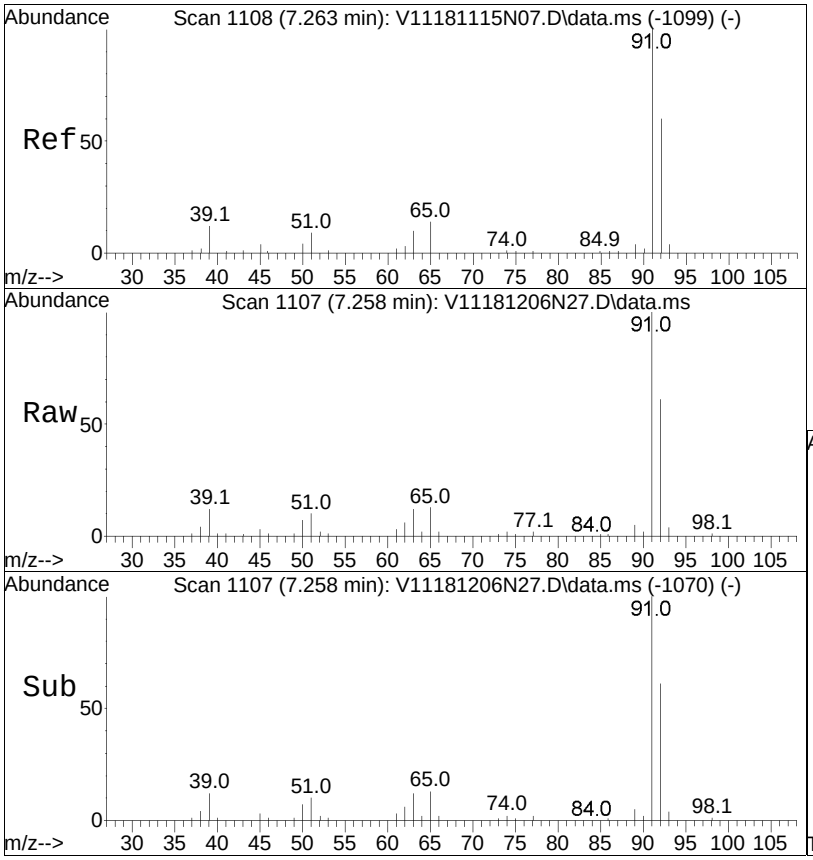


#58
cis-1,3-Dichloropropene
Concen: 31.60 ug/L
RT: 7.001 min Scan# 1058
Delta R.T. 0.000 min
Lab File: V11181206N27.D
Acq: 07 Dec 2018 01:52 am

Tgt Ion: 75 Resp: 32232

Ion	Ratio	Lower	Upper
75	100		
77	32.4	24.9	37.3
39	69.1	51.8	77.8

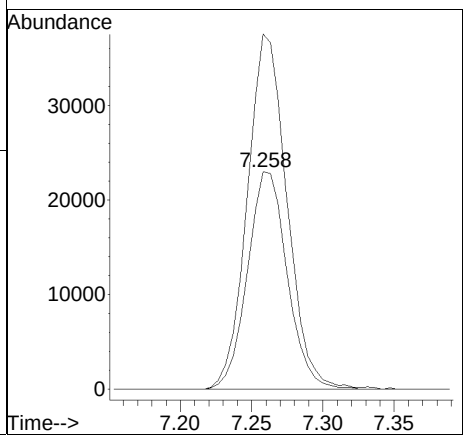


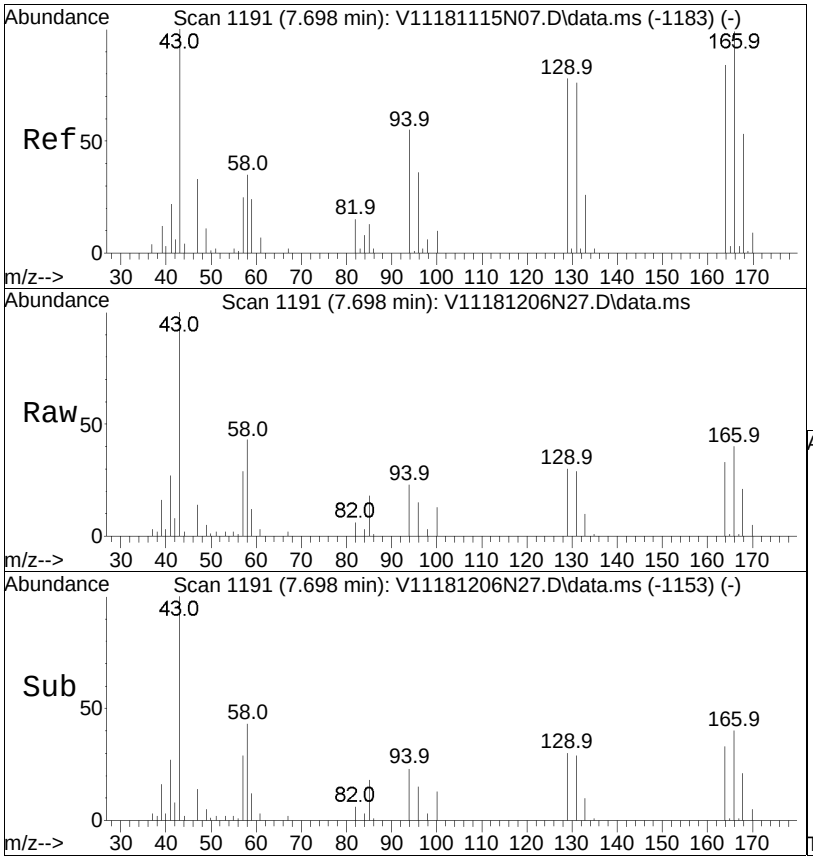


#61
Toluene
Concen: 34.88 ug/L
RT: 7.258 min Scan# 1107
Delta R.T. -0.005 min
Lab File: V11181206N27.D
Acq: 07 Dec 2018 01:52 am

Tgt Ion: 92 Resp: 44684

Ion	Ratio	Lower	Upper
92	100		
91	162.8	133.7	200.5

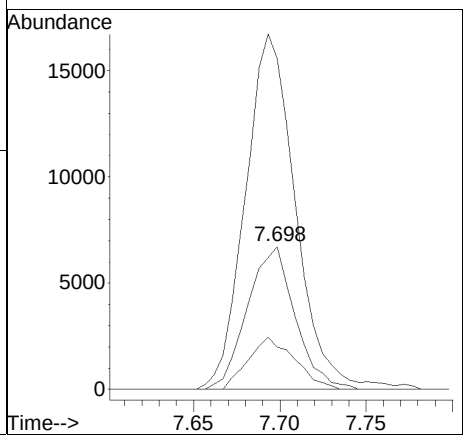


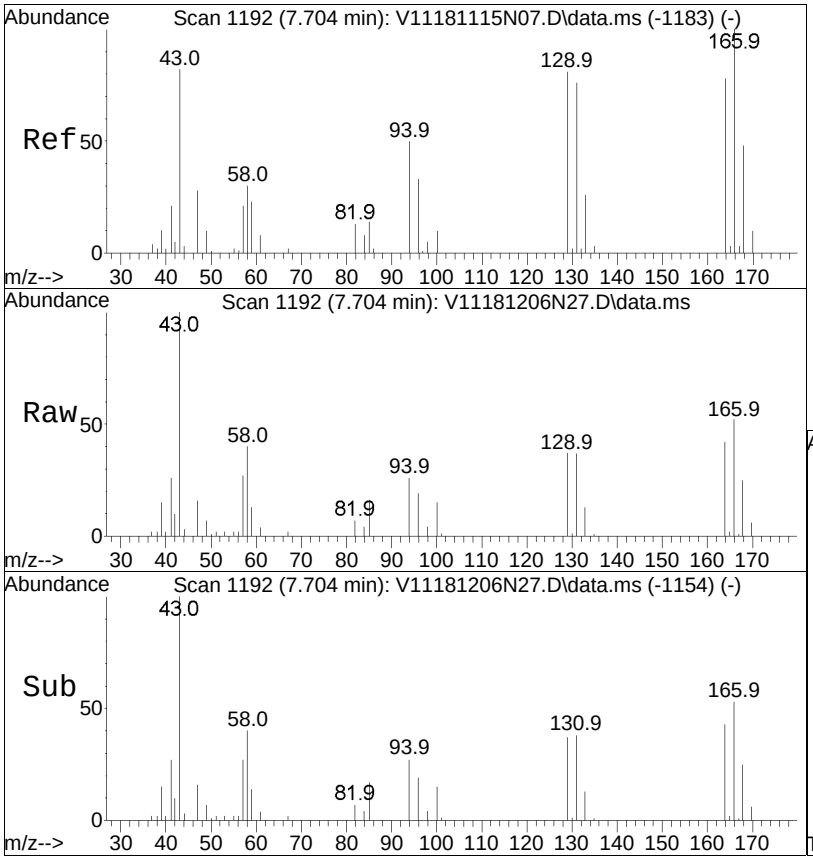


#62
4-Methyl-2-pentanone
Concen: 62.41 ug/L
RT: 7.698 min Scan# 1191
Delta R.T. 0.000 min
Lab File: V11181206N27.D
Acq: 07 Dec 2018 01:52 am

Tgt Ion: 58 Resp: 12923

Ion	Ratio	Lower	Upper
58	100		
100	35.8	22.0	33.0#
43	262.9	236.9	355.3

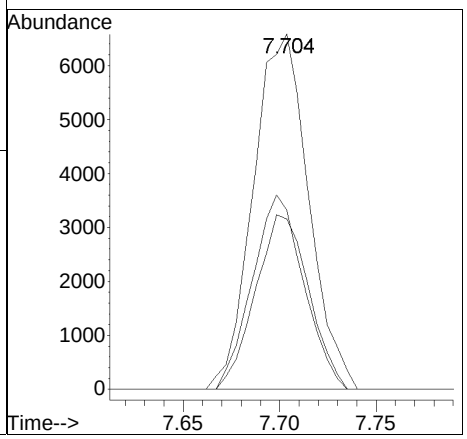


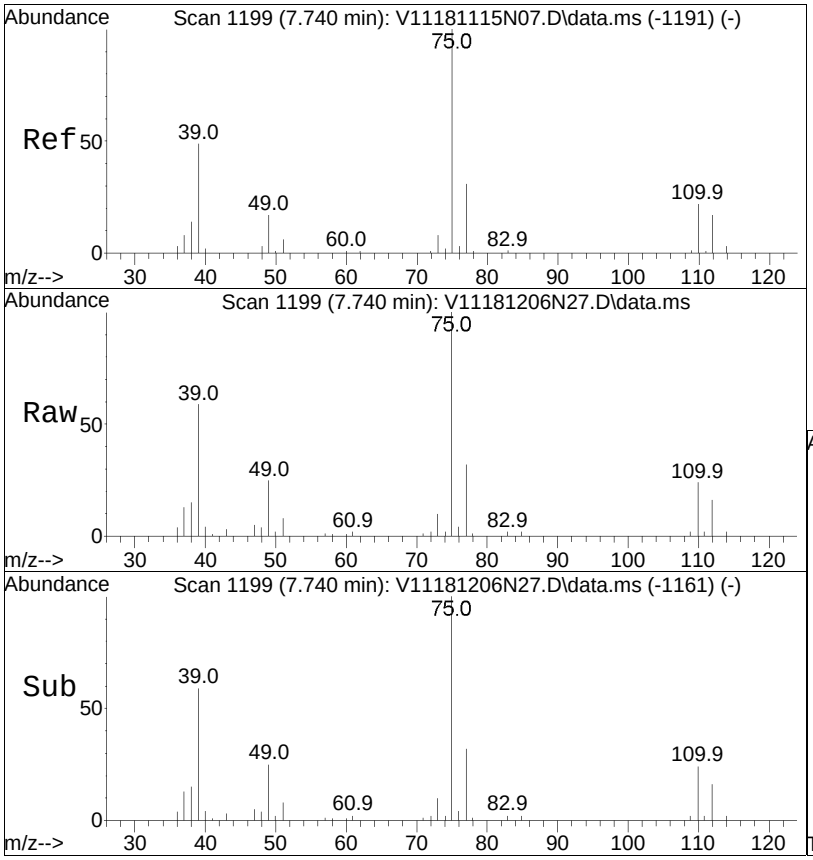


#63
Tetrachloroethene
Concen: 24.67 ug/L
RT: 7.704 min Scan# 1192
Delta R.T. -0.000 min
Lab File: V11181206N27.D
Acq: 07 Dec 2018 01:52 am

Tgt Ion:166 Resp: 13126

Ion	Ratio	Lower	Upper
166	100		
168	47.4	28.2	68.2
94	50.9	26.3	66.3

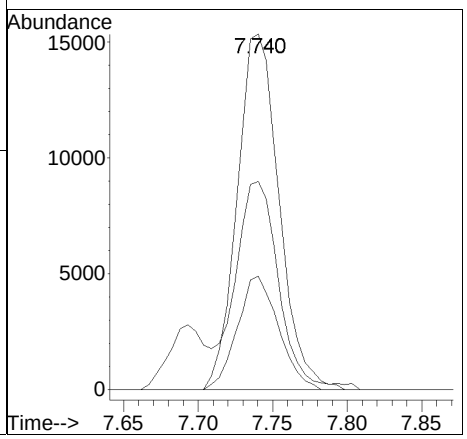


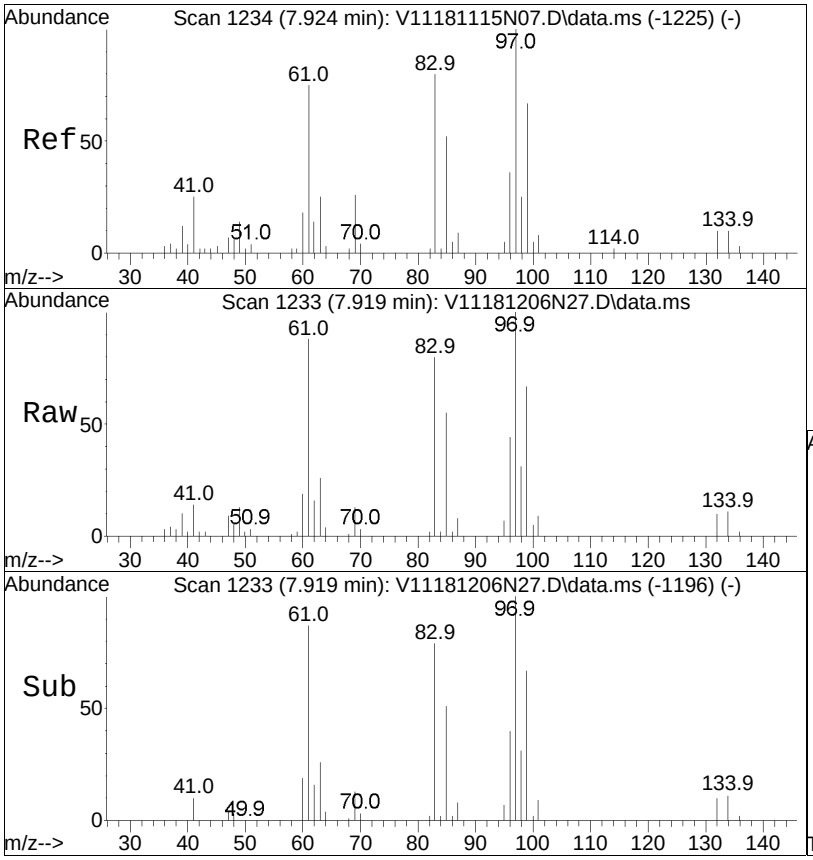


#65
trans-1,3-Dichloropropene
Concen: 36.59 ug/L
RT: 7.740 min Scan# 1199
Delta R.T. 0.000 min
Lab File: V11181206N27.D
Acq: 07 Dec 2018 01:52 am

Tgt Ion: 75 Resp: 30145

Ion	Ratio	Lower	Upper
75	100		
77	31.1	11.4	51.4
39	59.8	50.3	90.3

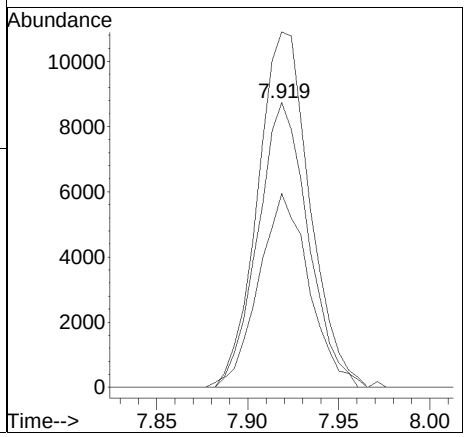


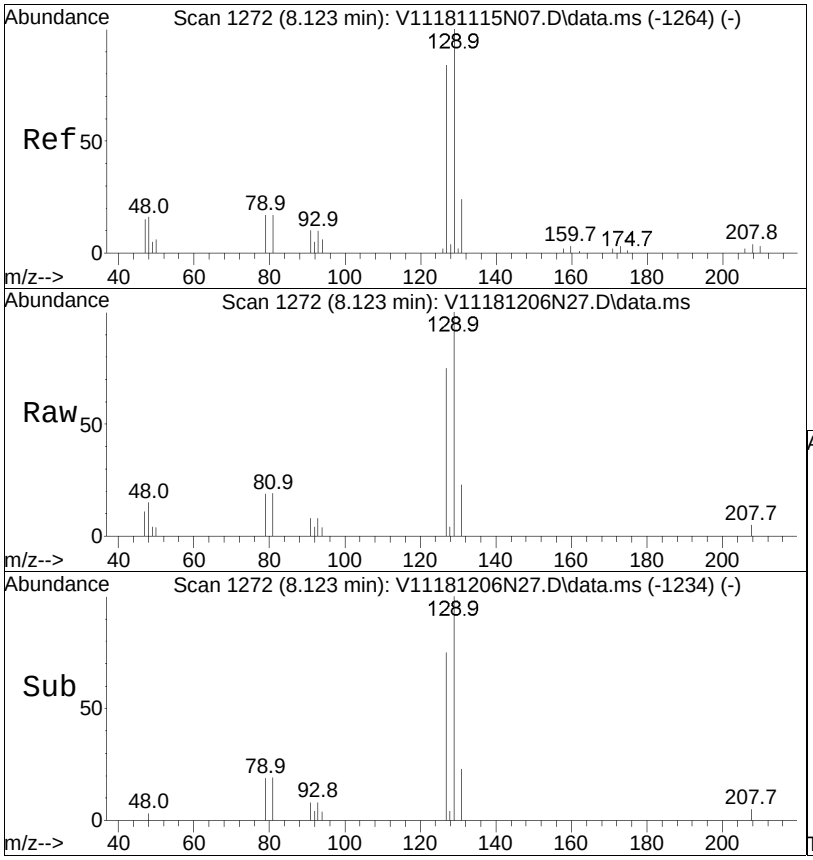


#68
1,1,2-Trichloroethane
Concen: 47.12 ug/L
RT: 7.919 min Scan# 1233
Delta R.T. -0.005 min
Lab File: V11181206N27.D
Acq: 07 Dec 2018 01:52 am

Tgt Ion: 83 Resp: 16814

Ion	Ratio	Lower	Upper
83	100		
97	129.6	97.6	137.6
85	68.2	46.8	86.8

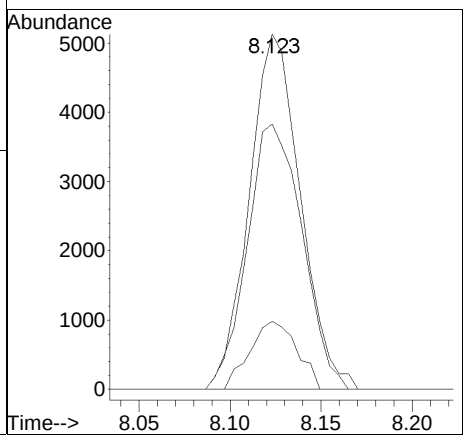


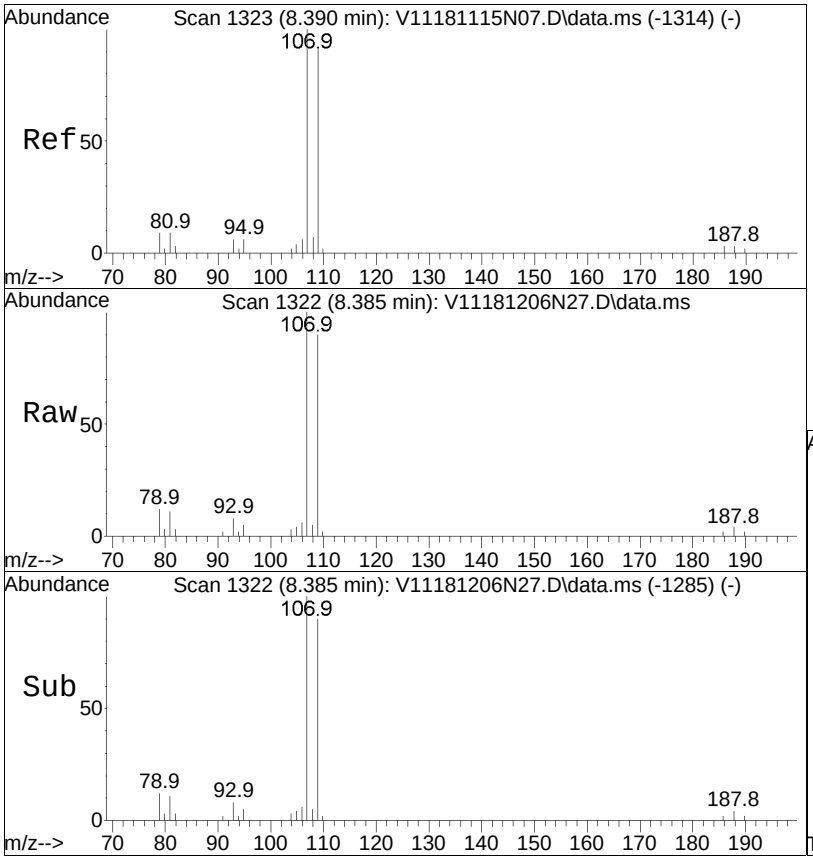


#69
Chlorodibromomethane
Concen: 16.25 ug/L
RT: 8.123 min Scan# 1272
Delta R.T. 0.000 min
Lab File: V11181206N27.D
Acq: 07 Dec 2018 01:52 am

Tgt Ion:129 Resp: 10039

Ion	Ratio	Lower	Upper
129	100		
81	17.6	0.0	36.0
127	80.2	56.0	96.0

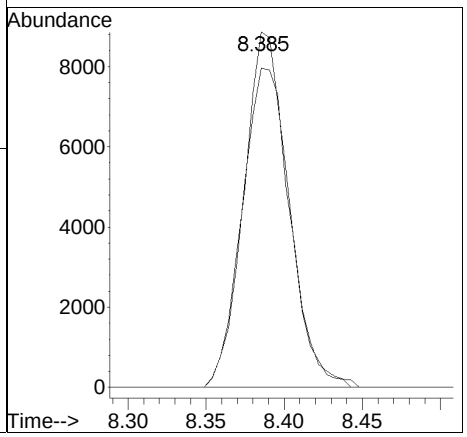


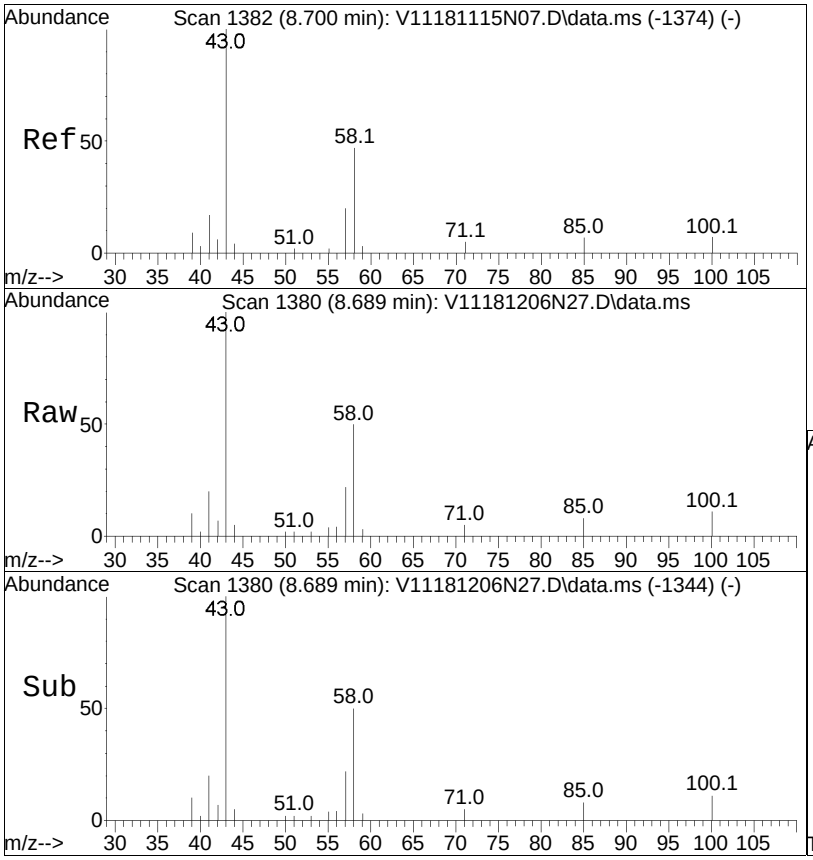


#71
1,2-Dibromoethane
Concen: 39.72 ug/L
RT: 8.385 min Scan# 1322
Delta R.T. -0.005 min
Lab File: V11181206N27.D
Acq: 07 Dec 2018 01:52 am

Tgt Ion:107 Resp: 17825

Ion	Ratio	Lower	Upper
107	100		
109	95.2	76.2	114.4

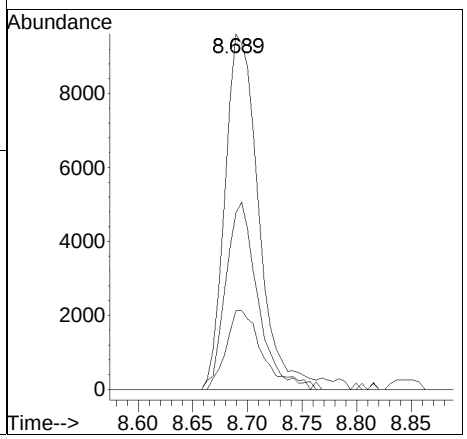


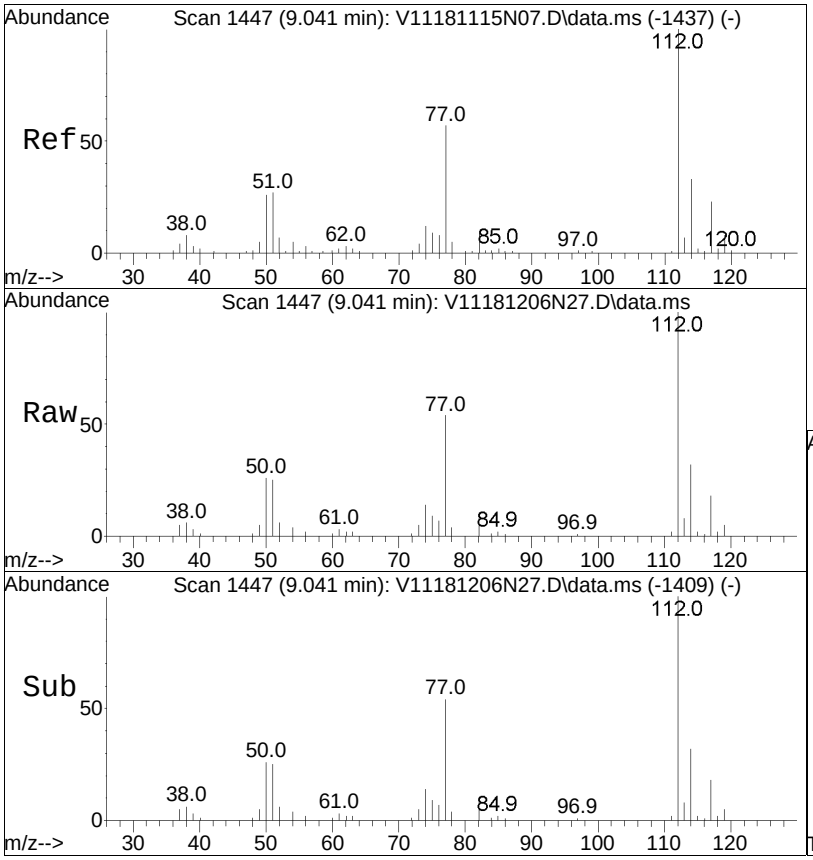


#72
2-Hexanone
Concen: 53.47 ug/L
RT: 8.689 min Scan# 1380
Delta R.T. -0.011 min
Lab File: V11181206N27.D
Acq: 07 Dec 2018 01:52 am

Tgt Ion: 43 Resp: 21002

Ion	Ratio	Lower	Upper
43	100		
58	49.0	37.9	56.9
57	23.9	12.6	19.0#

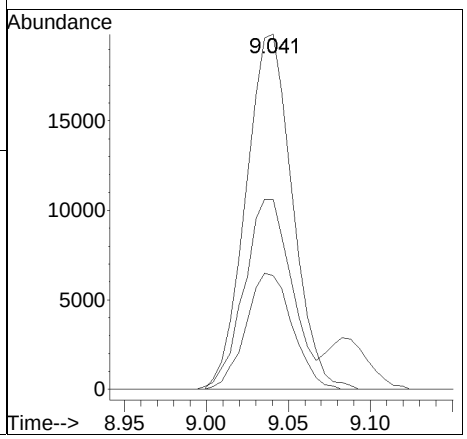


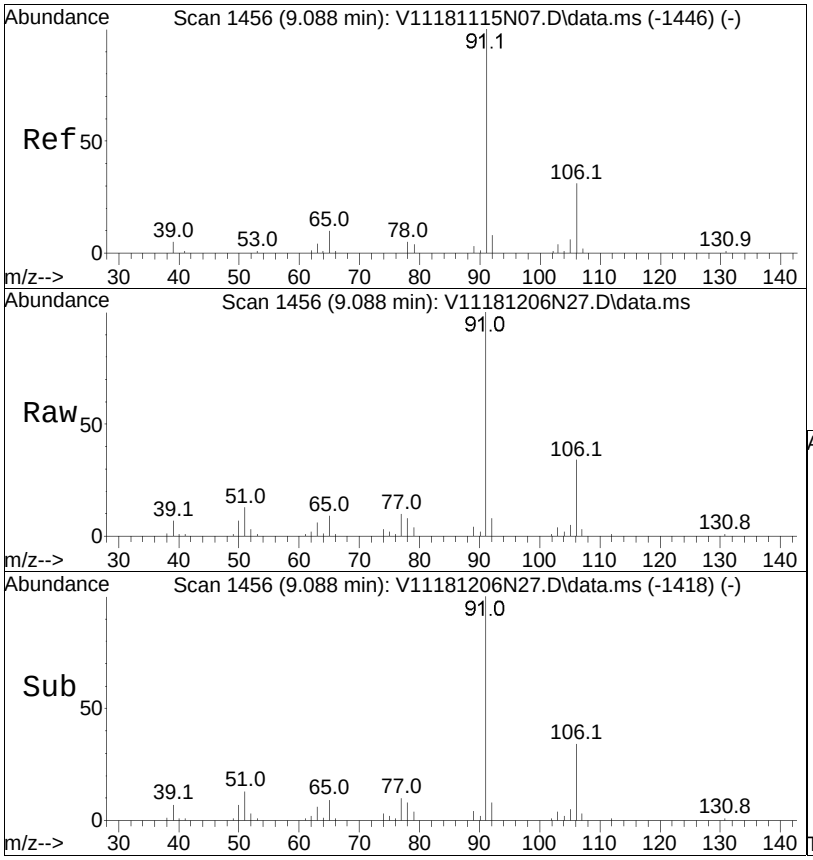


#73
Chlorobenzene
Concen: 25.20 ug/L
RT: 9.041 min Scan# 1447
Delta R.T. -0.000 min
Lab File: V11181206N27.D
Acq: 07 Dec 2018 01:52 am

Tgt Ion:112 Resp: 39265

Ion	Ratio	Lower	Upper
112	100		
77	54.8	47.0	70.4
114	32.8	25.9	38.9

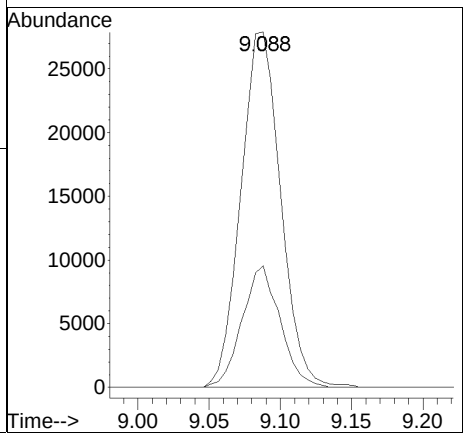


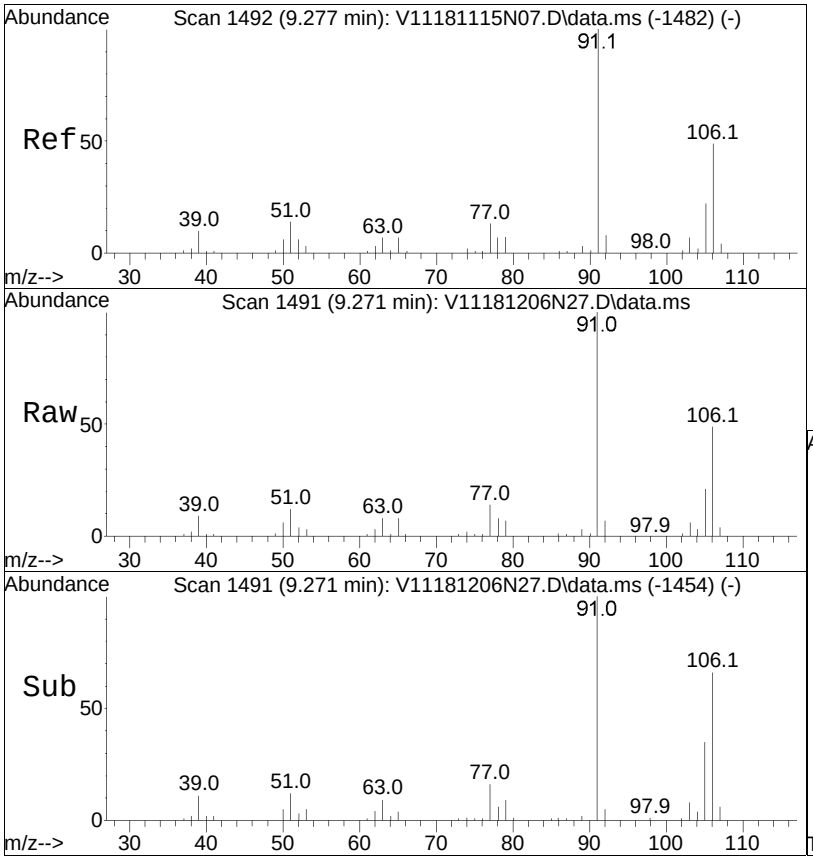


#74
Ethylbenzene
Concen: 21.52 ug/L
RT: 9.088 min Scan# 1456
Delta R.T. -0.000 min
Lab File: V11181206N27.D
Acq: 07 Dec 2018 01:52 am

Tgt Ion: 91 Resp: 54268

Ion	Ratio	Lower	Upper
91	100		
106	32.6	25.0	37.4

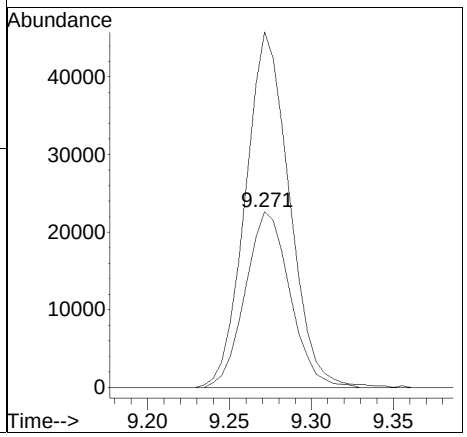


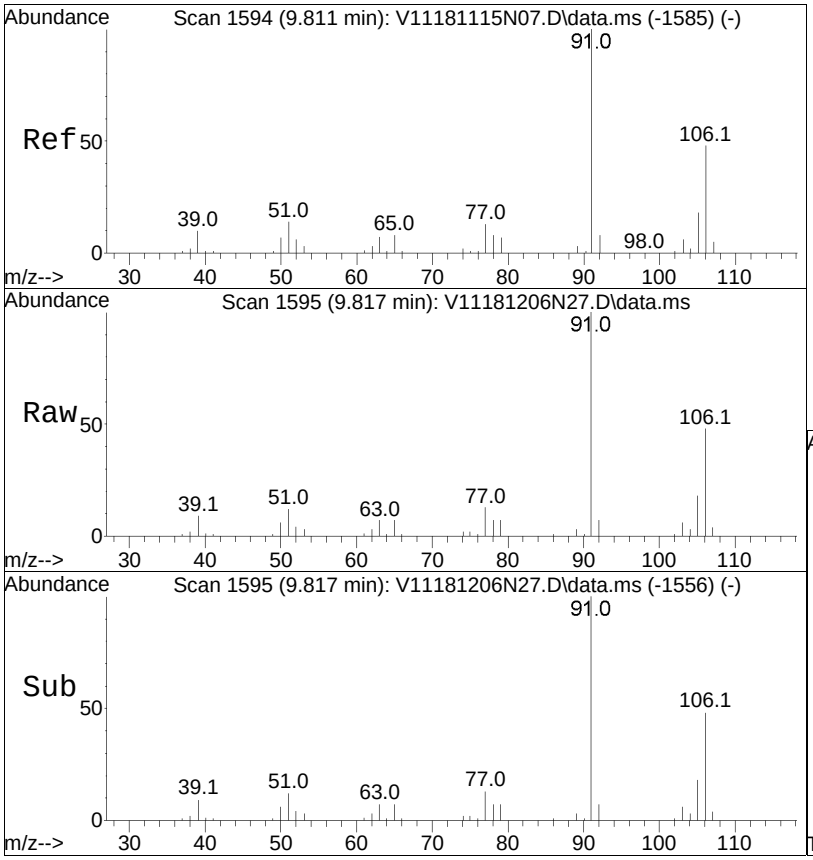


#76
p/m Xylene
Concen: 42.99 ug/L
RT: 9.271 min Scan# 1491
Delta R.T. -0.006 min
Lab File: V11181206N27.D
Acq: 07 Dec 2018 01:52 am

Tgt Ion:106 Resp: 42888

Ion	Ratio	Lower	Upper
106	100		
91	199.1	159.3	238.9

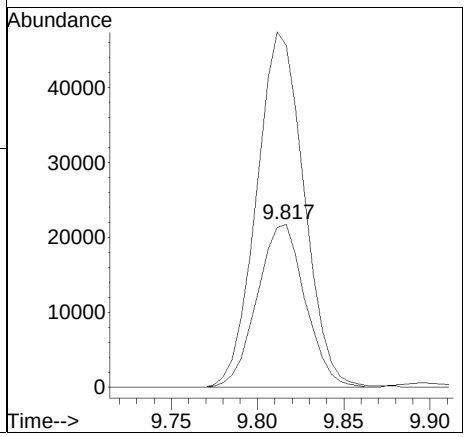


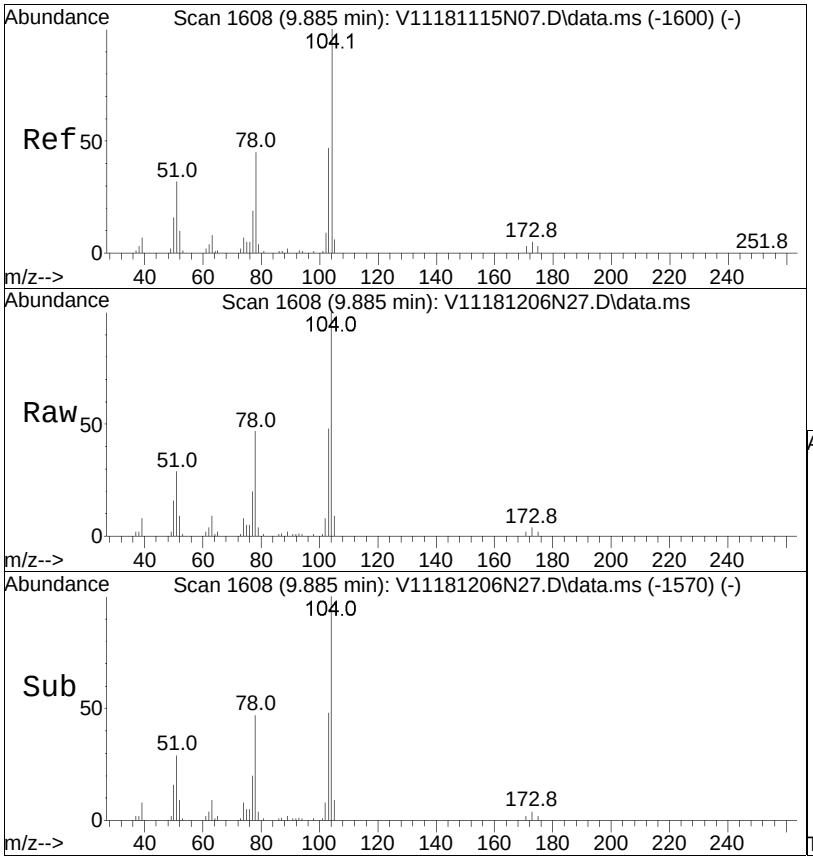


#77
o Xylene
Concen: 42.21 ug/L
RT: 9.817 min Scan# 1595
Delta R.T. 0.006 min
Lab File: V11181206N27.D
Acq: 07 Dec 2018 01:52 am

Tgt Ion:106 Resp: 42101

Ion	Ratio	Lower	Upper
106	100		
91	215.3	170.2	255.2

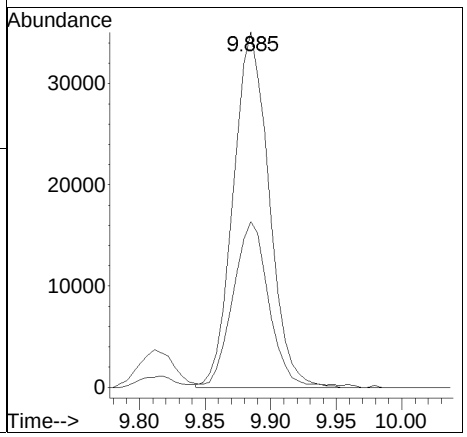


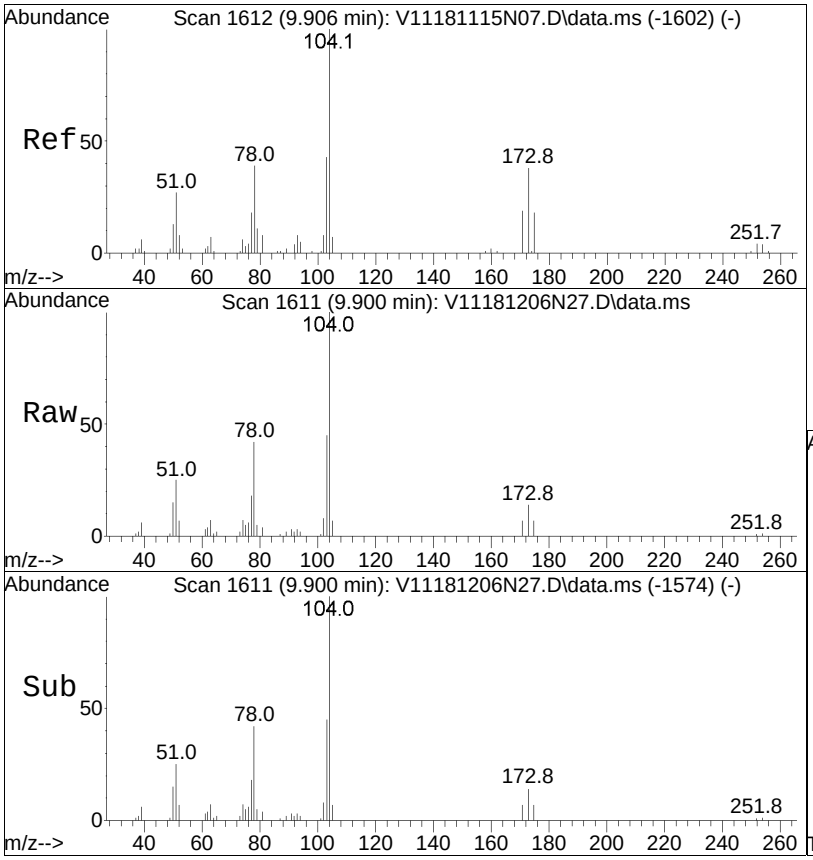


#78
Styrene
Concen: 40.30 ug/L
RT: 9.885 min Scan# 1608
Delta R.T. -0.000 min
Lab File: V11181206N27.D
Acq: 07 Dec 2018 01:52 am

Tgt Ion:104 Resp: 66798

Ion	Ratio	Lower	Upper
104	100		
78	46.5	34.4	51.6

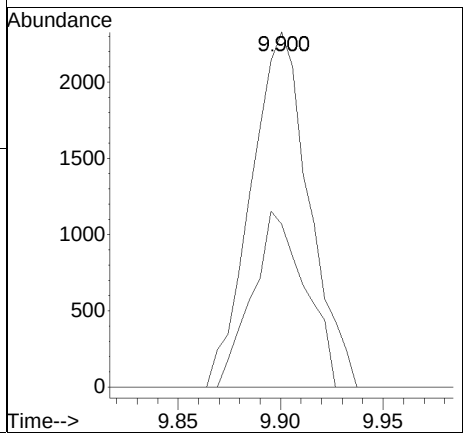


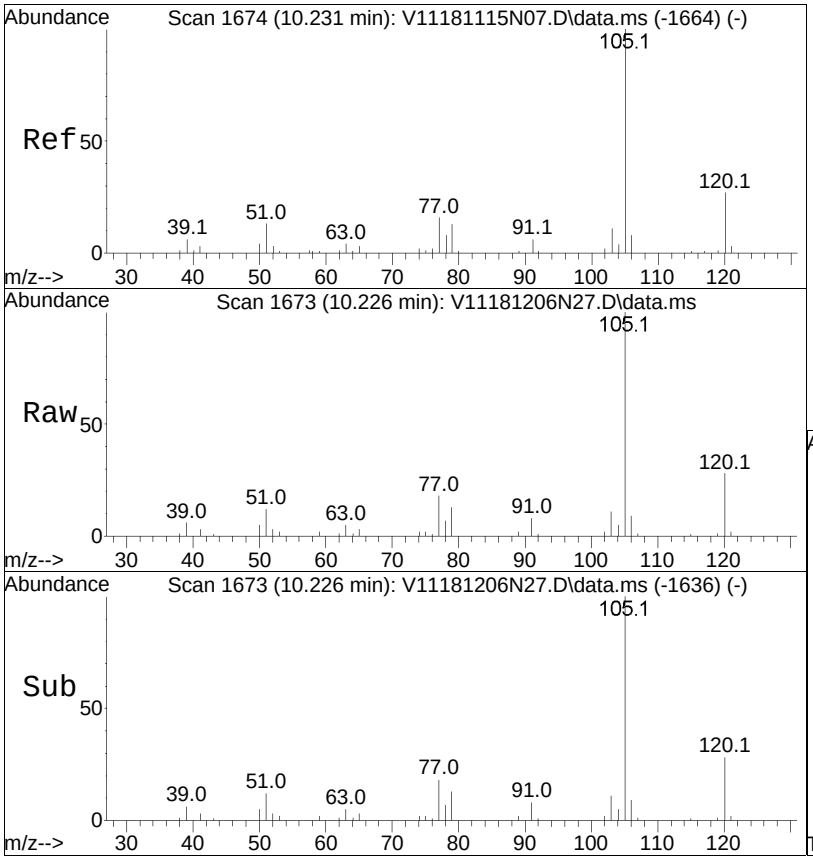


#80
Bromoform
Concen: 18.15 ug/L
RT: 9.900 min Scan# 1611
Delta R.T. -0.006 min
Lab File: V11181206N27.D
Acq: 07 Dec 2018 01:52 am

Tgt Ion:173 Resp: 4595

Ion	Ratio	Lower	Upper
173	100		
175	45.2	28.1	68.1

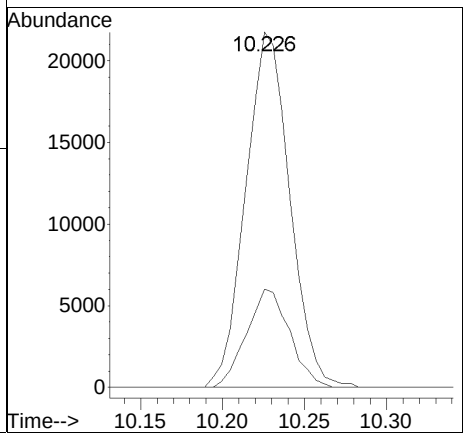


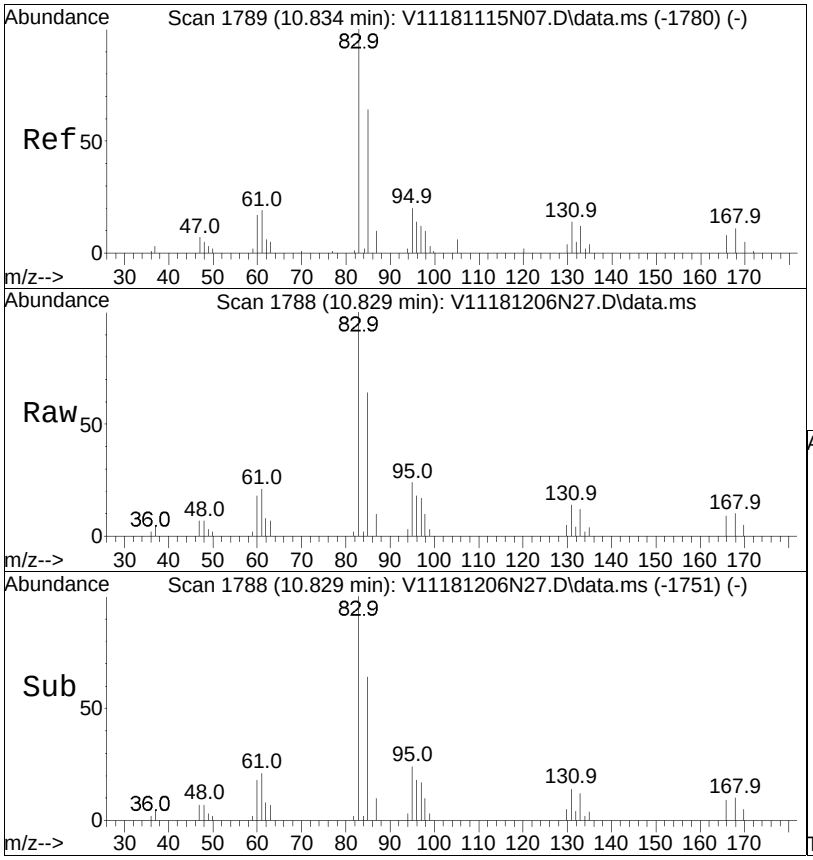


#82
Isopropylbenzene
Concen: 23.03 ug/L
RT: 10.226 min Scan# 1673
Delta R.T. -0.005 min
Lab File: V11181206N27.D
Acq: 07 Dec 2018 01:52 am

Tgt Ion:105 Resp: 40739

Ion	Ratio	Lower	Upper
105	100		
120	27.0	6.9	46.9

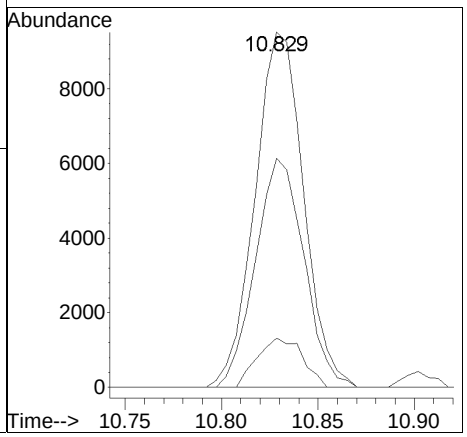


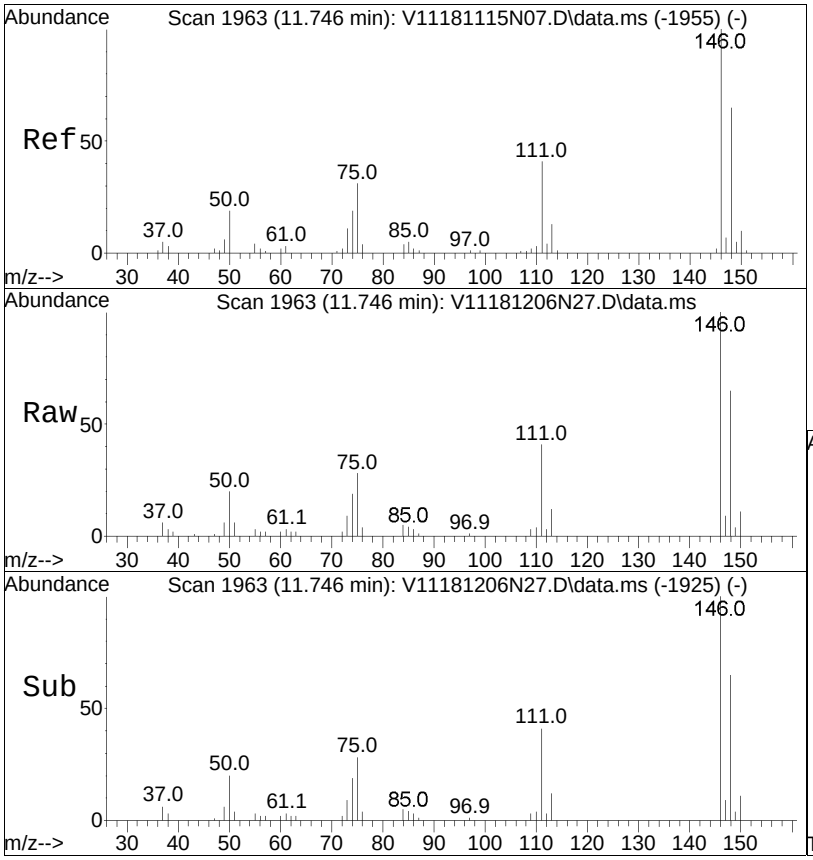


#87
1,1,2,2-Tetrachloroethane
Concen: 43.95 ug/L
RT: 10.829 min Scan# 1788
Delta R.T. -0.005 min
Lab File: V11181206N27.D
Acq: 07 Dec 2018 01:52 am

Tgt Ion: 83 Resp: 16685

Ion	Ratio	Lower	Upper
83	100		
131	13.0	0.0	30.1
85	64.4	45.8	85.8

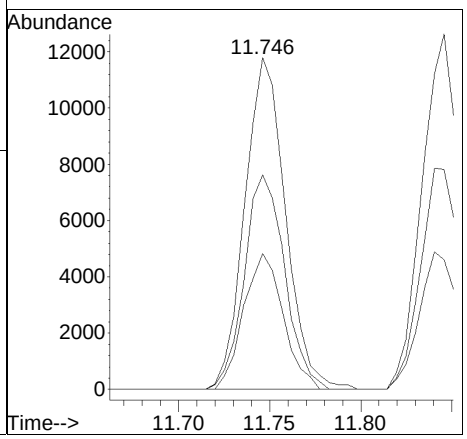


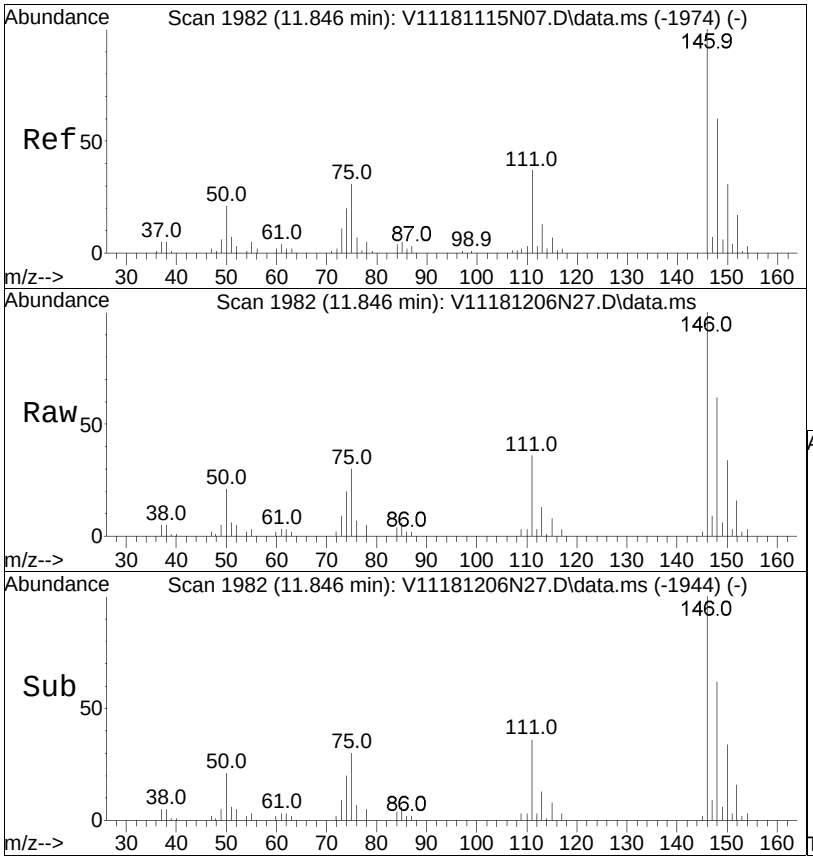


#100
1,3-Dichlorobenzene
Concen: 19.86 ug/L
RT: 11.746 min Scan# 1963
Delta R.T. 0.000 min
Lab File: V11181206N27.D
Acq: 07 Dec 2018 01:52 am

Tgt Ion:146 Resp: 18323

Ion	Ratio	Lower	Upper
146	100		
111	39.8	25.6	53.2
148	64.2	41.3	85.9

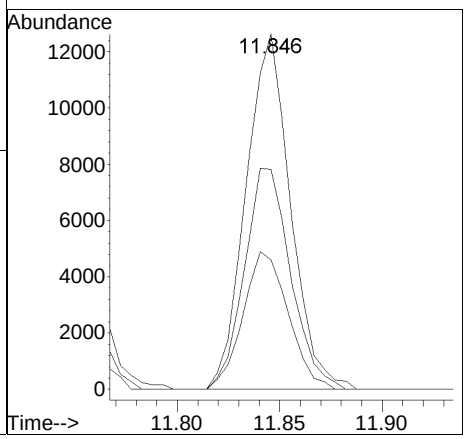


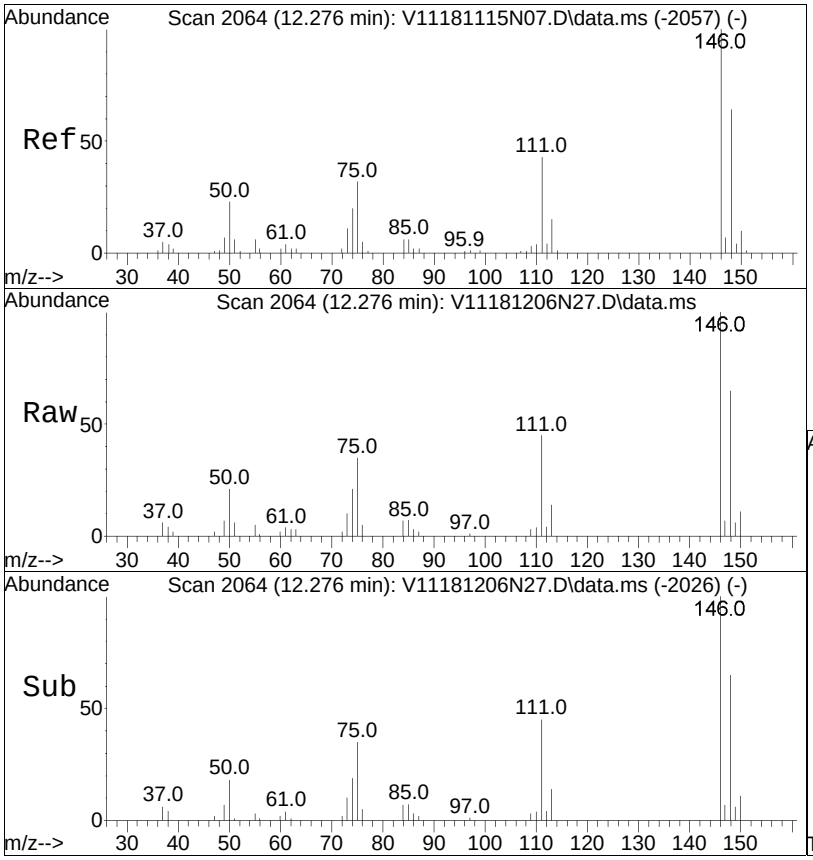


#101
1,4-Dichlorobenzene
Concen: 20.09 ug/L
RT: 11.846 min Scan# 1982
Delta R.T. -0.000 min
Lab File: V11181206N27.D
Acq: 07 Dec 2018 01:52 am

Tgt Ion:146 Resp: 19105

Ion	Ratio	Lower	Upper
146	100		
111	39.4	31.4	47.0
148	64.7	50.7	76.1

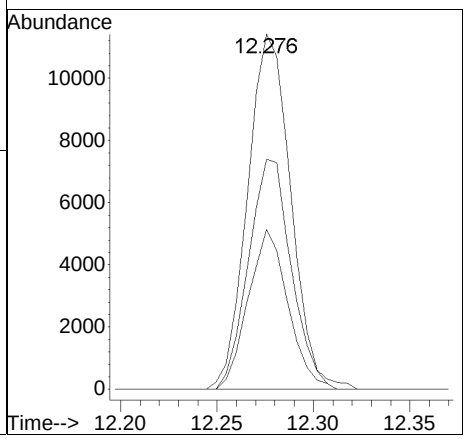


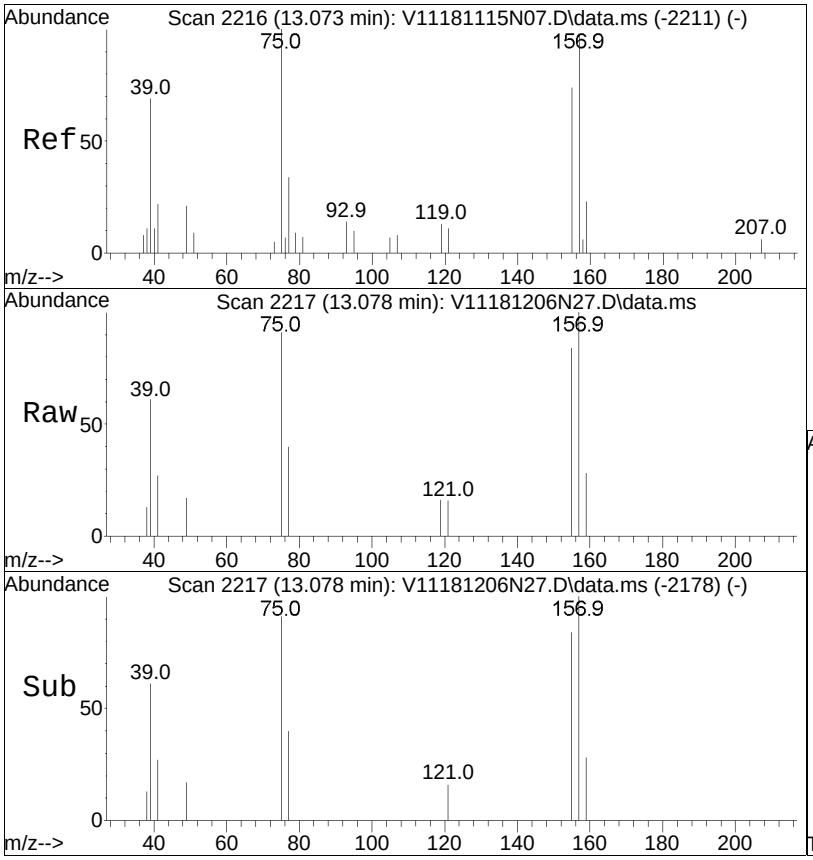


#104
1,2-Dichlorobenzene
Concen: 20.51 ug/L
RT: 12.276 min Scan# 2064
Delta R.T. -0.000 min
Lab File: V11181206N27.D
Acq: 07 Dec 2018 01:52 am

Tgt Ion:146 Resp: 17811

Ion	Ratio	Lower	Upper
146	100		
111	41.4	26.9	55.9
148	64.1	41.2	85.6

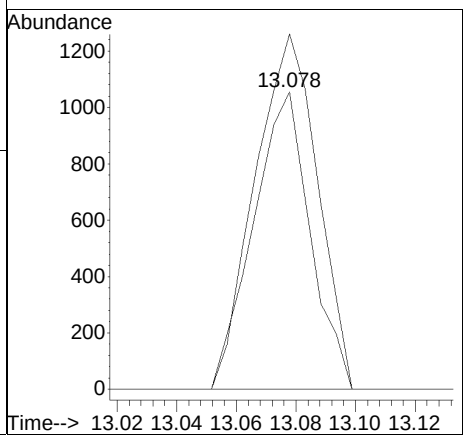


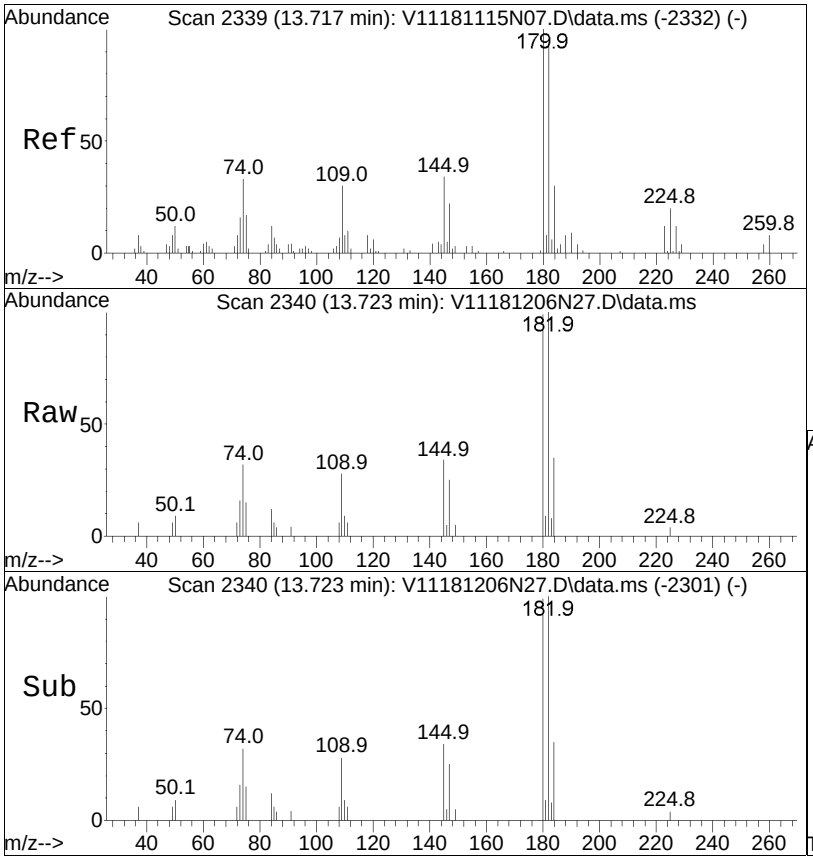


#106
1,2-Dibromo-3-chloropropane
Concen: 19.90 ug/L
RT: 13.078 min Scan# 2217
Delta R.T. 0.005 min
Lab File: V11181206N27.D
Acq: 07 Dec 2018 01:52 am

Tgt Ion:155 Resp: 1399

Ion	Ratio	Lower	Upper
155	100		
157	131.7	100.0	150.0

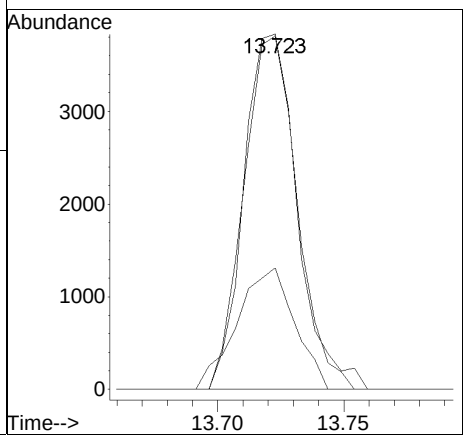


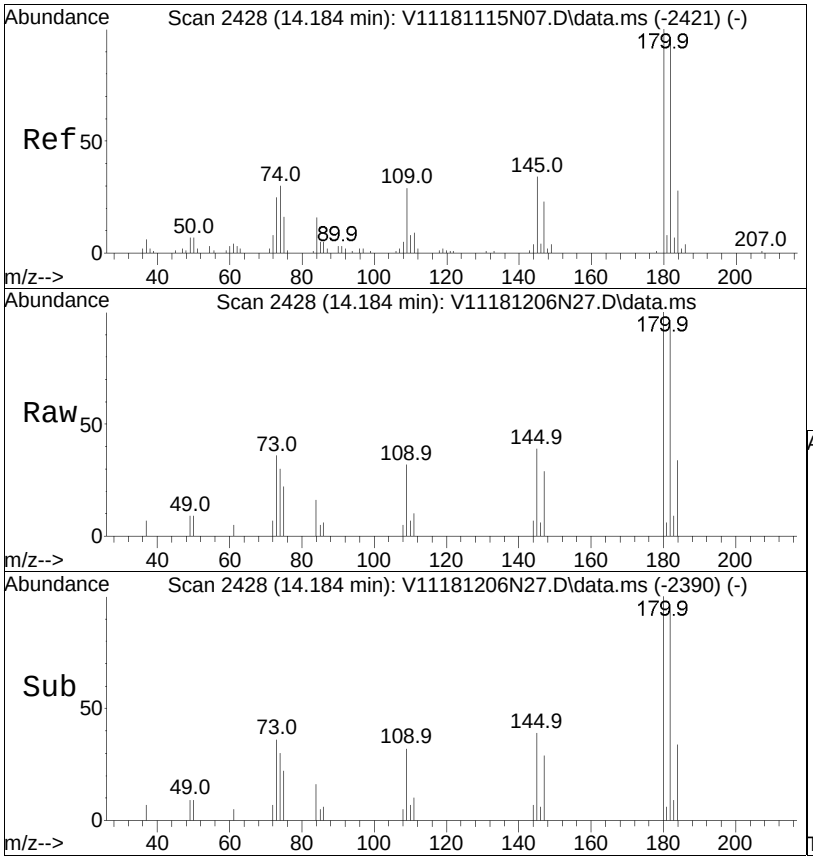


#109
1,2,4-Trichlorobenzene
Concen: 9.38 ug/L
RT: 13.723 min Scan# 2340
Delta R.T. 0.006 min
Lab File: V11181206N27.D
Acq: 07 Dec 2018 01:52 am

Tgt Ion:180 Resp: 5589

Ion	Ratio	Lower	Upper
180	100		
182	100.9	75.8	113.6
145	37.3	29.6	44.4

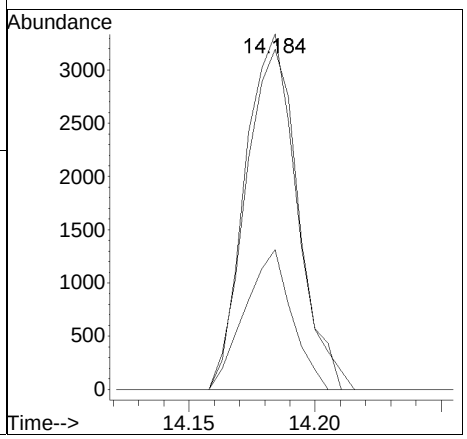




#111
1,2,3-Trichlorobenzene
Concen: 8.42 ug/L
RT: 14.184 min Scan# 2428
Delta R.T. 0.000 min
Lab File: V11181206N27.D
Acq: 07 Dec 2018 01:52 am

Tgt Ion:180 Resp: 4755

Ion	Ratio	Lower	Upper
180	100		
182	97.8	74.2	111.4
145	35.7	26.3	39.5



Manual Integration Report

Data Path	: I:\VOLATILES\VOA111\2018\1	QMethod	: V111_181115N_8260.m
Data File	: V11181206N27.D	Operator	: VOA111:MV
Date Inj'd	: 12/7/2018 1:52 am	Instrument	: VOA111
Sample	: WG1186672-7,31,5.02,5,,z1	Quant Date	: 12/7/2018 4:03 am

There are no manual integrations or false positives in this file.

Calculation of Volatile Organic Compounds

Aqueous Concentration Formula: Amt * DF * Uf * (1/Vo)

Where:
DF = Dilution Factor
Vo = Sample Volume Purged (mL)
Uf = ng Unit Correction Factor (mL)

Soil Concentration Formula: Amt * DF * (1/Wt)

Where:
DF = Dilution Factor
Wt = Weight of Sample (g)

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Dec 07 2018, 01:24 pm

Work Group: WG1186463 for Department: 31 GC/MS - Volatiles

Created: 06-DEC-18 Due: Operator: MKS

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L1848513-01	SW-1	S	NYTCL-8260-R2	SOIL	DONE	U	1212	1207	S0	Vial-Large
L1848959-05	SB-01-06	S	NYTCL-8260HLW	SOIL	DONE	U	1213	1207	S0	8260SET
L1849049-03	SODRUM_113018	S	NYTCL-8260HLW	SOIL	DONE	U	1214	1207	S0	8260SET
L1849049-04	SODRUM_PI_113018	S	NYTCL-8260HLW	SOIL	DONE	U	1214	1207	S0	8260SET
L1849060-02	CB-02	S	NYTCL-8260-R2	SOIL	DONE	U	1214	1207	S0	Vial-Large
L1849060-04	CB-04	S	NYTCL-8260-R2	SOIL	DONE	U	1214	1207	S0	Vial-Large
L1849060-05	CB-01	S	NYTCL-8260-R2	SOIL	DONE	U	1214	1207	S0	Vial-Large
L1849060-06	DUP-18	S	NYTCL-8260-R2	SOIL	DONE	U	1214	1207	S0	Vial-Large
L1849064-01	AOI4-TRACK5-E271-C-BF	S	NYTCL-8260HLW	SOLID	DONE	U	1214	1207	S0	8260SET
L1849064-02	AOI4-TRACK5-E271-D-BF	S	NYTCL-8260HLW	SOLID	DONE	U	1214	1207	S0	8260SET
L1849088-18	SB-14 8.5-10	S	NYTCL-8260HLW-R2	SOIL	DONE	U	1214	1207	S0	8260SET
L1849223-01	SP18_GRAB_120318	S	NYTCL-8260HLW	SOIL	DONE	U	1217	1210	S0	8260SET
L1849252-03	SB-03 (14'-15')	S	NYTCL-8260HLW	SOIL	DONE	U	1217	1210	S0	8260SET
L1849252-05	SB-04 (13'-15')	S	NYTCL-8260HLW	SOIL	DONE	U	1217	1210	S0	8260SET
L1849252-08	SB-02 (13'-15')	S	NYTCL-8260HLW	SOIL	DONE	U	1217	1210	S0	8260SET
WG1186463-1	MS BFB Tune Standard	S	NYTCL-8260-R2	SOIL	DONE	U				
WG1186463-1	MS BFB Tune Standard	S	NYTCL-8260HLW-R2	SOIL	DACQ	U				
WG1186463-1	MS BFB Tune Standard	S	NYTCL-8260HLW	SOLID	DONE	U				
WG1186463-1	MS BFB Tune Standard	S	NYTCL-8260HLW	SOIL	DONE	U				
WG1186463-2	Continuing Calibrati	S	NYTCL-8260HLW	SOIL	DONE	U				
WG1186463-2	Continuing Calibrati	S	NYTCL-8260HLW	SOLID	DONE	U				
WG1186463-2	Continuing Calibrati	S	NYTCL-8260HLW-R2	SOIL	DACQ	U				
WG1186463-2	Continuing Calibrati	S	NYTCL-8260-R2	SOIL	DONE	U				
WG1186463-3	Laboratory Control S	S	NYTCL-8260-R2	SOIL	DONE	U				
WG1186463-3	Laboratory Control S	S	NYTCL-8260HLW	SOIL	DACQ	U				
WG1186463-3	Laboratory Control S	S	NYTCL-8260HLW	SOLID	DACQ	U				
WG1186463-3	Laboratory Control S	S	NYTCL-8260HLW-R2	SOIL	DACQ	U				
WG1186463-4	LCS Duplicate	S	NYTCL-8260HLW	SOIL	DACQ	U				
WG1186463-4	LCS Duplicate	S	NYTCL-8260HLW	SOLID	DACQ	U				
WG1186463-4	LCS Duplicate	S	NYTCL-8260HLW-R2	SOIL	DACQ	U				
WG1186463-4	LCS Duplicate	S	NYTCL-8260-R2	SOIL	DONE	U				
WG1186463-5	Laboratory Method Bl	S	NYTCL-8260HLW-R2	SOIL	DACQ	U				
WG1186463-5	Laboratory Method Bl	S	NYTCL-8260HLW	SOLID	DACQ	U				
WG1186463-5	Laboratory Method Bl	S	NYTCL-8260-R2	SOIL	DONE	U				
WG1186463-5	Laboratory Method Bl	S	NYTCL-8260HLW	SOIL	DACQ	U				

Comments:

WG1186463-4 WG1186463-3

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Dec 07 2018, 01:24 pm

Work Group: WG1186672 for Department: 31 GC/MS - Volatiles

Created: 07-DEC-18 Due: Operator: mv

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L1849060-03	CB-03	S	NYTCL-8260-R2	SOIL	DONE	U	1214	1207	S0	Vial-Large
L1849252-01	SB-03 (1.0'-1.5')	S	NYTCL-8260HLW	SOIL	DONE	U	1217	1210	S0	8260SET
L1849252-04	SB-04 (2'-3')	S	NYTCL-8260HLW	SOIL	DONE	U	1217	1210	S0	8260SET
WG1186672-1	MS BFB Tune Standard	S	NYTCL-8260HLW	SOIL	DONE	U				
WG1186672-1	MS BFB Tune Standard	S	NYTCL-8260-R2	SOIL	DONE	U				
WG1186672-10	Laboratory Control S	S	NYTCL-8260-R2	SOIL	DACQ	U				
WG1186672-10	Laboratory Control S	S	NYTCL-8260HLW	SOIL	DONE	U				
WG1186672-11	LCS Duplicate	S	NYTCL-8260HLW	SOIL	DONE	U				
WG1186672-11	LCS Duplicate	S	NYTCL-8260-R2	SOIL	DACQ	U				
WG1186672-12	Laboratory Method Bl	S	NYTCL-8260-R2	SOIL	DACQ	U				
WG1186672-12	Laboratory Method Bl	S	NYTCL-8260HLW	SOIL	DONE	U				
WG1186672-2	Continuing Calibrati	S	NYTCL-8260-R2	SOIL	DONE	U				
WG1186672-2	Continuing Calibrati	S	NYTCL-8260HLW	SOIL	DONE	U				
WG1186672-3	Laboratory Control S	S	NYTCL-8260-R2	SOIL	DONE	U				
WG1186672-3	Laboratory Control S	S	NYTCL-8260HLW	SOIL	DACQ	U				
WG1186672-4	LCS Duplicate	S	NYTCL-8260HLW	SOIL	DACQ	U				
WG1186672-4	LCS Duplicate	S	NYTCL-8260-R2	SOIL	DONE	U				
WG1186672-5	Laboratory Method Bl	S	NYTCL-8260-R2	SOIL	SENT	U				
WG1186672-5	Laboratory Method Bl	S	NYTCL-8260HLW	SOIL	DONE	U				
WG1186672-6	Matrix Spike	S	NYTCL-8260HLW	SOIL	DONE	U				
WG1186672-6	Matrix Spike	S	NYTCL-8260-R2	SOIL	DACQ	U				
WG1186672-7	Matrix Spike Duplica	S	NYTCL-8260-R2	SOIL	DACQ	U				
WG1186672-7	Matrix Spike Duplica	S	NYTCL-8260HLW	SOIL	DONE	U				
WG1186672-8	MS BFB Tune Standard	S	NYTCL-8260-R2	SOIL	DONE	U				
WG1186672-8	MS BFB Tune Standard	S	NYTCL-8260HLW	SOIL	DONE	U				
WG1186672-9	Continuing Calibrati	S	NYTCL-8260-R2	SOIL	DONE	U				
WG1186672-9	Continuing Calibrati	S	NYTCL-8260HLW	SOIL	DONE	U				

Comments:

WG1186672-11	WG1186672-10
WG1186672-4	WG1186672-3
WG1186672-6	L1849060-03
WG1186672-7	L1849060-03

Method

Inst: VOA104 BFB: V6947 GC: 8260SOIL

Initials: AD IS/SS: V7032 (EXP:12/25/18) Autosampler: 8260_SOIL

Date: **10/29/18** ICAL: V6977E, V67022 Concentrator: 8260

Run: **N** ICV: V6992, V7015, V6942, V6999, V6974, V7014 QC: _____ Seq: _____

Vial	Data File	Sample
1	V04181029BF1	BFB TUNE
1	V04181029N01	BLK
2	V04181029N02	BLK
3	V04181029N03	I8260STDL0
6	V04181029N04	I8260STDL1
5	V04181029N05	I8260STDL1.5
6	V04181029N06	I8260STDL2
7	V04181029N07	I8260STDL3
8	V04181029N08	I8260STDL4
9	V04181029N09	I8260STDL6
10	V04181029N10	I8260STDL7
11	V04181029N11	I8260STDL8
12	V04181029N12	BLK
13	V04181029N13	BLK
14	V04181029N14	BLK
15	V04181029N15	C8260STDL3
16	V04181029N16	C8260STDL3
17	V04181029N17	BLK

Method

Inst: VOA111 BFB V7018 GC: 8260

Initials: KJD IS/SS: V7031 (EXP 12-25-18) Autosampler: 8260soil

Date: **11/15/18** ICAL: V7068, V7022 Concentrator: 8260

Run: **N** ICV: V6992, V7015, V7053, V6998, V6974, V7014 QC:_____ Seq:_____

Vial	Data File	Sample
1	V11181115NBF1	BFB TUNE
1	V11181115N01	BLK
2	V11181115N02	BLK
3	V11181115N03	I8260STDL0
4	V11181115N04	I8260STDL1
5	V11181115N05	I8260STDL1.5
6	V11181115N06	I8260STDL2
7	V11181115N07	I8260STDL3
8	V11181115N08	I8260STDL4
9	V11181115N09	I8260STDL6
10	V11181115N10	I8260STDL7
11	V11181115N11	I8260STDL8
12	V11181115N12	BLK
13	V11181115N13	BLK
14	V11181115N14	BLK
15	V11181115N15	C8260STDL3
16	V11181115N16	C8260STDL3
17	V11181115N17	BLK

Method

Inst: VOA111 BFB V7018 GC: 8260

Initials: MKS IS/SS: V7089 (EXP:1/26/19) Autosampler: 8260soil

Date: **12/06/18** ICAL: V7068, V7022 Concentrator: 8260

Run: **N** ICV: V6992, V7015, V7053, V6998, V6974, V7014 QC:_____ Seq:_____

Vial	Data File	Sample	
1	V11181206NBF1	BFB TUNE	
1	V11181206N01	8260 CCAL C LCS	
2	V11181206N02	8260 CCAL C LCSD	
3	V11181206N03	8260 CCAL C	
4	V11181206N04	BLK	
5	V11181206N05	MEOH BLANK	
6	V11181206N06	I1848937-02,31H,14.62,15,0.100,,a	CT/H
7	V11181206N07	I1849060-03,31,4.93,5,,z	NYHLW CURVE
8	V11181206N08	I1849147-01,31HM,4.88,5,0.100,,x	NY/H CURVE (PPM)
9	V11181206N09	I1849609-01,31,5.63,5,,b	MLW
10	V11181206N10	I1849609-02,31,6.20,5,,b	MLW
11	V11181206N11	I1849609-03,31,5.11,5,,b	MLW
12	V11181206N12	I1849609-04,31,6.69,5,,b	MLW
13	V11181206N13	I1849609-05,31H,15.38,15,0.100,,a	M/H
14	V11181206N14	I1849609-06,31,6.30,5,,b	MLW
15	V11181206N15	I1849609-07,31,5.91,5,,b	MLW
16	V11181206N16	I1849609-08,31,5,5,,b	MLW
17	V11181206N17	I1849609-08,31H,15,15,0.100,,a	M/HIGH
18	V11181206N18	I1849673-01,31H,13.58,5,0.100,,a	NY/H
19	V11181206N19	I1849673-03,31H,10.09,5,0.100,,a	NY/H
20	V11181206N20	I1849673-05,31H,9.30,5,0.100,,a	NY/H
21	V11181206N21	I1849252-01,31,6.39,5,,c	MLW
22	V11181206N22	I1849252-04,31,7.12,5,,c	MLW
23	V11181206N23	I1849252-07,31,5.13,5,,b	MLW
24	V11181206N24	I1849272-01,31,7.44,5,,c	MLW
25	V11181206N25	I1849272-03,31,8.56,5,,b	MLW
26	V11181206N26	I1849060-03MS,31,4.69,5,,z2	NYHLW CURVE
27	V11181206N27	I1849060-03MSD,31,5.02,5,,z1	NYHLW CURVE
28	V11181206N28	STD	

Inst: VOA104 BFB: V6947 Method GC: 8260SOIL

Initials: MV IS/SS: V7080 (EXP:01/26/19) Autosampler: 8260_SOIL

Date: **12/06/18** ICAL: V6977E, V67022, V7055, V7054 Concentrator: 8260

Run: **A** ICV: V6992, V7015, V6942, V6999, V6974, V7014, V7056, V7070, V7071 QC: _____ Seq: _____

Vial	Data File	Sample	
1	V04181206BF2	BFB TUNE	
1	V04181206A01	8260 CCAL D	
2	V04181206A02	8260 CCAL D	
3	V04181206A03	8260 CCAL D	
6	V04181206A04	BLNK	
7	V04181206A05	METHOD BLNK	
6	V04181206A06	I1848959-05,31,5.09,5,,c	NYHLW
7	V04181206A07	BLNK	
8	V04181206A08	I1849049-03,31,5.40,5,,b	NYHLW CURVE
9	V04181206A09	I1849049-04,31,5.66,5,,b	NYHLW CURVE
10	V04181206A10	BLNK	
11	V04181206A11	I1849252-03,31,4.97,5,,b	NYHLW
12	V04181206A12	I1849252-05,31,5.25,5,,b	NYHLW
13	V04181206A13	I1849252-08,31,5.60,5,,b	NYHLW/10
14	V04181206A14	I1849064-01,31,4.49,5,,c	NYHLW/10
15	V04181206A15	I1849064-02,31,5.55,5,,c	NYHLW/10
16	V04181206A16	I1849064-03,31,4.57,5,,c	NYHLW/10
17	V04181206A17	I1848513-01,31,5.69,5,,y	NYTCL/CURVE
18	V04181206A18	I1849223-01,31,5.81,5,,c	NYHLW CURVE
19	V04181206A19	I1849692-01,31,8.79,5,,b	CTHLW
20	V04181206A20	I1849088-18,31,5.52,5,,b	NYHLW CURVE
21	V04181206A21	I1849060-02,31,4.58,5,,y	NYHLW CURVE
22	V04181206A22	I1849060-04,31,5.88,5,,y	NYHLW CURVE
23	V04181206A23	I1849060-05,31,4.26,5,,y	NYHLW CURVE
24	V04181206A24	I1849060-06,31,4.35,5,,y	NYHLW CURVE
25	V04181206A25	I1849660-01,31,5.41,5,,z	NYHLW CURVE
26	V04181206A26	STD	

Semivolatiles Data- Method 8270D

Semivolatiles QC Summary

Laboratory Control Sample
Form 3

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Matrix	: SOIL		
LCS Sample ID	: WG1184852-2 **Analysis Date** : 12/05/18 17:24	**File ID**	: 184852-2
LCSD Sample ID	: WG1184852-3 **Analysis Date** : 12/05/18 17:49	**File ID**	: 184852-3

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/kg)	Found (ug/kg)	%R	True (ug/kg)	Found (ug/kg)	%R	RPD	Recovery Limits	RPD Limit
Acenaphthene	1300	970	74	1300	900	68	8	31-137	50
Hexachlorobenzene	1300	910	69	1300	850	65	6	40-140	50
Bis(2-chloroethyl)ether	1300	870	66	1300	810	61	8	40-140	50
2-Chloronaphthalene	1300	980	74	1300	940	71	4	40-140	50
3,3'-Dichlorobenzidine	1300	750	57	1300	720	55	4	40-140	50
2,4-Dinitrotoluene	1300	1200	88	1300	1000	80	10	40-132	50
2,6-Dinitrotoluene	1300	1100	85	1300	1100	81	5	40-140	50
Fluoranthene	1300	1000	79	1300	950	72	9	40-140	50
4-Chlorophenyl phenyl ether	1300	1000	77	1300	940	71	8	40-140	50
4-Bromophenyl phenyl ether	1300	1000	76	1300	920	70	8	40-140	50
Bis(2-chloroisopropyl)ether	1300	1200	89	1300	1100	84	6	40-140	50
Bis(2-chloroethoxy)methane	1300	960	72	1300	890	68	6	40-117	50
Hexachlorobutadiene	1300	830	62	1300	780	59	5	40-140	50
Hexachlorocyclopentadiene	1300	900	68	1300	830	64	6	40-140	50
Hexachloroethane	1300	830	63	1300	790	60	5	40-140	50
Isophorone	1300	940	71	1300	880	67	6	40-140	50
Naphthalene	1300	940	71	1300	890	68	4	40-140	50
Nitrobenzene	1300	930	70	1300	870	66	6	40-140	50
NDPA/DPA	1300	1100	81	1300	990	75	8	36-157	50
n-Nitrosodi-n-propylamine	1300	950	72	1300	900	69	4	32-121	50
Bis(2-ethylhexyl)phthalate	1300	1200	92	1300	1100	84	9	40-140	50
Butyl benzyl phthalate	1300	1200	92	1300	1100	83	10	40-140	50
Di-n-butylphthalate	1300	1100	83	1300	1000	76	9	40-140	50
Di-n-octylphthalate	1300	1300	98	1300	1200	89	10	40-140	50
Diethyl phthalate	1300	1100	81	1300	990	75	8	40-140	50
Dimethyl phthalate	1300	1100	80	1300	1000	76	5	40-140	50
Benzo(a)anthracene	1300	1000	76	1300	920	70	8	40-140	50
Benzo(a)pyrene	1300	1100	85	1300	990	76	11	40-140	50

Laboratory Control Sample
Form 3

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Matrix	: SOIL		
LCS Sample ID	: WG1184852-2	**Analysis Date** : 12/05/18 17:24	**File ID** : 184852-2
LCSD Sample ID	: WG1184852-3	**Analysis Date** : 12/05/18 17:49	**File ID** : 184852-3

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/kg)	Found (ug/kg)	%R	True (ug/kg)	Found (ug/kg)	%R	RPD	Recovery Limits	RPD Limit
Benzo(b)fluoranthene	1300	1200	88	1300	1000	77	13	40-140	50
Benzo(k)fluoranthene	1300	1000	77	1300	940	71	8	40-140	50
Chrysene	1300	1000	77	1300	920	70	10	40-140	50
Acenaphthylene	1300	1000	78	1300	980	74	5	40-140	50
Anthracene	1300	1000	76	1300	920	70	8	40-140	50
Benzo(ghi)perylene	1300	1000	76	1300	910	70	8	40-140	50
Fluorene	1300	1000	78	1300	940	72	8	40-140	50
Phenanthrene	1300	960	73	1300	880	67	9	40-140	50
Dibenzo(a,h)anthracene	1300	1000	79	1300	950	72	9	40-140	50
Indeno(1,2,3-cd)pyrene	1300	1100	82	1300	970	74	10	40-140	50
Pyrene	1300	1000	78	1300	940	72	8	35-142	50
Biphenyl	1300	1000	78	1300	970	74	5	54-104	50
4-Chloroaniline	1300	700	53	1300	690	52	2	40-140	50
2-Nitroaniline	1300	1200	90	1300	1100	84	7	47-134	50
3-Nitroaniline	1300	930	70	1300	880	67	4	26-129	50
4-Nitroaniline	1300	1100	86	1300	1100	81	6	41-125	50
Dibenzofuran	1300	990	75	1300	900	69	8	40-140	50
2-Methylnaphthalene	1300	990	75	1300	930	71	5	40-140	50
1,2,4,5-Tetrachlorobenzene	1300	970	73	1300	920	70	4	40-117	50
Acetophenone	1300	1000	77	1300	970	74	4	14-144	50
2,4,6-Trichlorophenol	1300	1100	84	1300	1000	80	5	30-130	50
p-Chloro-m-cresol	1300	1100	84	1300	1000	79	6	26-103	50
2-Chlorophenol	1300	1000	77	1300	980	75	3	25-102	50
2,4-Dichlorophenol	1300	1000	80	1300	1000	77	4	30-130	50
2,4-Dimethylphenol	1300	1100	86	1300	1100	82	5	30-130	50
2-Nitrophenol	1300	1200	88	1300	1100	84	5	30-130	50
4-Nitrophenol	1300	1100	84	1300	1000	76	10	11-114	50
2,4-Dinitrophenol	1300	800	60	1300	720	55	9	4-130	50

Laboratory Control Sample
Form 3

Client : CHA Companies
Project Name : 700 SMITH BLVD
Matrix : SOIL
LCS Sample ID : WG1184852-2 **Analysis Date** : 12/05/18 17:24 **File ID** : 184852-2
LCSD Sample ID : WG1184852-3 **Analysis Date** : 12/05/18 17:49 **File ID** : 184852-3

Lab Number : L1849060
Project Number : 29852.1202.44000

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/kg)	Found (ug/kg)	%R	True (ug/kg)	Found (ug/kg)	%R	RPD	Recovery Limits	RPD Limit
4,6-Dinitro-o-cresol	1300	1100	86	1300	1000	79	8	10-130	50
Pentachlorophenol	1300	850	64	1300	740	57	12	17-109	50
Phenol	1300	1000	79	1300	960	73	8	26-90	50
2-Methylphenol	1300	1000	78	1300	950	72	8	30-130.	50
3-Methylphenol/4-Methylphenol	1300	1000	80	1300	970	74	8	30-130	50
2,4,5-Trichlorophenol	1300	1100	84	1300	1000	79	6	30-130	50
Carbazole	1300	1000	78	1300	940	71	9	54-128	50
Atrazine	1300	1300	96	1300	1200	92	4	40-140	50
Benzaldehyde	1300	830	63	1300	770	58	8	40-140	50
Caprolactam	1300	1200	94	1300	1200	89	5	15-130	50
2,3,4,6-Tetrachlorophenol	1300	1000	78	1300	910	70	11	40-140	50

Matrix Spike
Form 3

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Client Sample ID	: CB-03	Matrix	: SOIL
Lab Sample ID	: L1849060-03	Analysis Date	: 12/09/18 23:02
Matrix Spike	: WG1184852-4	MS Analysis Date	: 12/09/18 22:11
Matrix Spike Dup	: WG1184852-5	MSD Analysis Date	: 12/09/18 22:37

		Matrix Spike Sample				Matrix Spike Duplicate						
Parameter	Sample Conc. (ug/kg)	Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R		Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R		RPD		Recovery Limits	RPD Limit
Acenaphthene	ND	2590	1500	58		2640	2000	76		29		31-137	50
Hexachlorobenzene	ND	2590	1400	54		2640	2000	76		35		40-140	50
Bis(2-chloroethyl)ether	ND	2590	1300J	50		2640	1800	68		32		40-140	50
2-Chloronaphthalene	ND	2590	1400J	54		2640	1900	72		30		40-140	50
3,3'-Dichlorobenzidine	ND	2590	ND	0	Q	2640	ND	0	Q	NC		40-140	50
2,4-Dinitrotoluene	ND	2590	410J	16	Q	2640	930J	35	Q	78	Q	40-132	50
2,6-Dinitrotoluene	ND	2590	440J	17	Q	2640	1000J	38	Q	78	Q	40-140	50
Fluoranthene	3000	2590	3400	15	Q	2640	4200	46		21		40-140	50
4-Chlorophenyl phenyl ether	ND	2590	1400J	54		2640	2000	76		35		40-140	50
4-Bromophenyl phenyl ether	ND	2590	1500J	58		2640	2000	76		29		40-140	50
Bis(2-chloroisopropyl)ether	ND	2590	1000J	39	Q	2640	1400J	53		33		40-140	50
Bis(2-chloroethoxy)methane	ND	2590	1300J	50		2640	1800	68		32		40-117	50
Hexachlorobutadiene	ND	2590	1400J	54		2640	1900	72		30		40-140	50
Hexachlorocyclopentadiene	ND	2590	ND	0	Q	2640	ND	0	Q	NC		40-140	50
Hexachloroethane	ND	2590	670J	26	Q	2640	1100J	42		49		40-140	50
Isophorone	ND	2590	1300J	50		2640	1800	68		32		40-140	50
Naphthalene	340J	2590	1600	62		2640	2100	80		27		40-140	50
Nitrobenzene	ND	2590	560J	22	Q	2640	1200J	46		73	Q	40-140	50
NDPA/DPA	ND	2590	1400	54		2640	2000	76		35		36-157	50
n-Nitrosodi-n-propylamine	ND	2590	1300J	50		2640	1700	64		27		32-121	50
Bis(2-ethylhexyl)phthalate	33000	2590	33000	0	Q	2640	29000	0	Q	13		40-140	50
Butyl benzyl phthalate	ND	2590	2200	85		2640	2900	110		27		40-140	50
Di-n-butylphthalate	ND	2590	1900	73		2640	2400	91		23		40-140	50
Di-n-octylphthalate	ND	2590	2500	31	Q	2640	3000	49		18		40-140	50

Matrix Spike
Form 3

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Client Sample ID	: CB-03	Matrix	: SOIL
Lab Sample ID	: L1849060-03	Analysis Date	: 12/09/18 23:02
Matrix Spike	: WG1184852-4	MS Analysis Date	: 12/09/18 22:11
Matrix Spike Dup	: WG1184852-5	MSD Analysis Date	: 12/09/18 22:37

		Matrix Spike Sample				Matrix Spike Duplicate						
Parameter	Sample Conc. (ug/kg)	Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R		Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R		RPD	Recovery Limits	RPD Limit
Diethyl phthalate	ND	2590	1400J	54		2640	2000	76		35	40-140	50
Dimethyl phthalate	ND	2590	1900	73		2640	2400	91		23	40-140	50
Benzo(a)anthracene	1200	2590	2100	35	Q	2640	2800	61		29	40-140	50
Benzo(a)pyrene	1000J	2590	2000	77		2640	2800	110		33	40-140	50
Benzo(b)fluoranthene	2400	2590	3000	23	Q	2640	3700	49		21	40-140	50
Benzo(k)fluoranthene	730J	2590	1900	73		2640	2500	95		27	40-140	50
Chrysene	1900	2590	2600	27	Q	2640	3300	53		24	40-140	50
Acenaphthylene	ND	2590	1400	54		2640	2000	76		35	40-140	50
Anthracene	420J	2590	1600	62		2640	2200	83		32	40-140	50
Benzo(ghi)perylene	1000J	2590	2000	77		2640	2600	99		26	40-140	50
Fluorene	190J	2590	1500J	58		2640	2000	76		29	40-140	50
Phenanthrene	1800	2590	2300	19	Q	2640	3000	46		26	40-140	50
Dibenzo(a,h)anthracene	260J	2590	1500	58		2640	2000	76		29	40-140	50
Indeno(1,2,3-cd)pyrene	1100J	2590	2000	77		2640	2700	100		30	40-140	50
Pyrene	2500	2590	3000	19	Q	2640	3700	46		21	35-142	50
Biphenyl	ND	2590	1500J	58		2640	2000J	76		29	54-104	50
4-Chloroaniline	ND	2590	380J	15	Q	2640	700J	27	Q	59 Q	40-140	50
2-Nitroaniline	ND	2590	790J	30	Q	2640	1800	68		78 Q	47-134	50
3-Nitroaniline	ND	2590	ND	0	Q	2640	860J	33		NC	26-129	50
4-Nitroaniline	ND	2590	ND	0	Q	2640	1600	61		NC	41-125	50
Dibenzofuran	ND	2590	1500J	58		2640	2000	76		29	40-140	50
2-Methylnaphthalene	260J	2590	1600J	62		2640	2000	76		22	40-140	50
1,2,4,5-Tetrachlorobenzene	ND	2590	1600	62		2640	2100	80		27	40-117	50
Acetophenone	ND	2590	1700	66		2640	2200	83		26	14-144	50

Matrix Spike
Form 3

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Client Sample ID	: CB-03	Matrix	: SOIL
Lab Sample ID	: L1849060-03	Analysis Date	: 12/09/18 23:02
Matrix Spike	: WG1184852-4	MS Analysis Date	: 12/09/18 22:11
Matrix Spike Dup	: WG1184852-5	MSD Analysis Date	: 12/09/18 22:37

		Matrix Spike Sample				Matrix Spike Duplicate						
Parameter	Sample Conc. (ug/kg)	Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R		Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R		RPD	Recovery Limits	RPD Limit
2,4,6-Trichlorophenol	ND	2590	1300	50		2640	2000	76		42	30-130	50
p-Chloro-m-cresol	ND	2590	1300J	50		2640	1900	72		38	26-103	50
2-Chlorophenol	ND	2590	1300J	50		2640	1900	72		38	25-102	50
2,4-Dichlorophenol	ND	2590	1300J	50		2640	2000	76		42	30-130	50
2,4-Dimethylphenol	ND	2590	1300J	50		2640	2000	76		42	30-130	50
2-Nitrophenol	ND	2590	ND	0	Q	2640	630J	24	Q	NC	30-130	50
4-Nitrophenol	ND	2590	ND	0	Q	2640	740J	28		NC	11-114	50
2,4-Dinitrophenol	ND	2590	ND	0	Q	2640	ND	0	Q	NC	4-130	50
4,6-Dinitro-o-cresol	ND	2590	ND	0	Q	2640	ND	0	Q	NC	10-130	50
Pentachlorophenol	ND	2590	930J	36		2640	1600	61		53	Q 17-109	50
Phenol	380J	2590	1800	69		2640	1800	68		0	26-90	50
2-Methylphenol	ND	2590	1400J	54		2640	1900	72		30	30-130.	50
3-Methylphenol/4-Methylphenol	6900	2590	7200	12	Q	2640	7400	19	Q	3	30-130	50
2,4,5-Trichlorophenol	ND	2590	1300J	50		2640	1800	68		32	30-130	50
Carbazole	310J	2590	1500J	58		2640	2200	83		38	54-128	50
Atrazine	ND	2590	1400	0	Q	2640	2100	0	Q	40	40-140	50
Benzaldehyde	ND	2590	2200	85		2640	2500	95		13	40-140	50
Caprolactam	ND	2590	1500J	58		2640	1600	61		6	15-130	50
2,3,4,6-Tetrachlorophenol	ND	2590	1200J	46		2640	1800	68		40	40-140	50

Form 2
Surrogate Recovery
SEMIVOLATILES

Client: CHA Companies
Project Name: 700 SMITH BLVD

Lab Number: L1849060
Project Number: 29852.1202.44000
Matrix: Soil

CLIENT ID (LAB SAMPLE NO.)	S1 (2FP)	S2 (PHL)	S3 (NBZ)	S4 (FBP)	S5 (TBP)	S6 (TPH)	TOT OUT
CB-02 (L1849060-02)	52	53	46	56	72	44	0
CB-03 (L1849060-03D)	48	48	17*	59	61	52	1
CB-04 (L1849060-04)	78	79	59	83	101	63	0
CB-01 (L1849060-05)	57	57	51	66	77	51	0
DUP-18 (L1849060-06D)	49	49	20*	56	52	46	1
WG1184852-1BLANK	76	76	71	76	74	75	0
WG1184852-2LCS	77	77	71	73	73	69	0
WG1184852-3LCSD	73	73	69	72	69	65	0
CB-03MS	49	49	19*	55	54	48	1
CB-03MSD	68	67	44	74	77	64	0

QC LIMITS

(25-120) 2FP = 2-FLUOROPHENOL
(10-120) PHL = PHENOL-D6
(23-120) NBZ = NITROBENZENE-D5
(30-120) FBP = 2-FLUOROBIPHENYL
(10-136) TBP = 2,4,6-TRIBROMOPHENOL
(18-120) TPH = 4-TERPHENYL-D14

*** Values outside of QC limits**

Method Blank Summary
Form 4
SEMIVOLATILES

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Lab Sample ID	: WG1184852-1	**Lab File ID**	: 184852-1
Instrument ID	: SV109	**Extraction Date**	: 12/03/18
Matrix	: SOIL	**Analysis Date**	: 12/05/18 16:59
Level	: LOW		

Client Sample No.	Lab Sample ID	Analysis Date
WG1184852-2LCS	WG1184852-2	12/05/18 17:24
WG1184852-3LCSD	WG1184852-3	12/05/18 17:49
CB-02	L1849060-02	12/07/18 00:35
CB-04	L1849060-04	12/07/18 01:26
CB-01	L1849060-05	12/07/18 01:51
CB-02	L1849060-02D	12/07/18 20:17
CB-03MS	WG1184852-4D	12/09/18 22:11
CB-03MSD	WG1184852-5D	12/09/18 22:37
CB-03	L1849060-03D	12/09/18 23:02
DUP-18	L1849060-06D	12/09/18 23:28

Instrument Performance Check
Decafluorotriphenylphosphine (DFTPP)
Form 5

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: SV109	**Analysis Date**	: 10/03/18 21:18
Tune Standard	: R1118032-1	**Tune File ID**	: Tune1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	46.8
68	Less than 2.0% of mass 69	0.7 (1.7)1
70	Less than 2.0% of mass 69	0.3 (.7)1
127	10.0 - 80.0% of Base Peak	50.1
197	Less than 2.0% of mass 198	0.7
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	7.1
275	10.0 - 60.0% of Base Peak	24.7
365	Greater than 1.0% of mass 198	3.3
441	Present, but less than 24% of mass 442	16.2
442	Base Peak, or >50% of mass 198	84.1
443	15.0 - 24.0% of mass 442	15.8 (18.8)2

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

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
ABNL10	R1118032-4	ABNL10	10/03/18 21:43
ABNL9	R1118032-12	ABNL9	10/03/18 22:09
ABNL8	R1118032-11	ABNL8	10/03/18 22:34
ABNL7	R1118032-10	ABNL7	10/03/18 22:59
ABNL6	R1118032-9	ABNL6	10/03/18 23:25
ABNL5	R1118032-8	ABNL5	10/03/18 23:50
ABNL4	R1118032-7	ABNL4	10/04/18 00:15
ABNL3	R1118032-6	ABNL3	10/04/18 00:40
ABNL2	R1118032-5	ABNL2	10/04/18 01:06
ABNL1	R1118032-3	ABNL1	10/04/18 01:31
AP9L10	R1118032-24	AP9L10	10/04/18 01:56
AP9L9	R1118032-32	AP9L9	10/04/18 02:22
AP9L8	R1118032-31	AP9L8	10/04/18 02:47
AP9L7	R1118032-29	AP9L7	10/04/18 03:12
AP9L6	R1118032-30	AP9L6	10/04/18 03:37
AP9L5	R1118032-28	AP9L5	10/04/18 04:02
AP9L4	R1118032-27	AP9L4	10/04/18 04:28
AP9L3	R1118032-26	AP9L3	10/04/18 04:53
AP9L2	R1118032-25	AP9L2	10/04/18 05:18
AP9L1	R1118032-23	AP9L1	10/04/18 05:43
ABN ICV Quant Report	R1118032-33	ABNICV	10/04/18 06:09
AP9 ICV Quant Report	R1118032-35	AP9ICV	10/04/18 06:34

Instrument Performance Check
Decafluorotriphenylphosphine (DFTPP)
Form 5

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: SV109	**Analysis Date**	: 10/04/18 06:59
Tune Standard	: R1118032-2	**Tune File ID**	: Tune2_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	50.4
68	Less than 2.0% of mass 69	0.7 (1.7)1
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	52
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.9
275	10.0 - 60.0% of Base Peak	25
365	Greater than 1.0% of mass 198	3.3
441	Present, but less than 24% of mass 442	16.8
442	Base Peak, or >50% of mass 198	82.3
443	15.0 - 24.0% of mass 442	16 (19.5)2

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

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
ADPL10	R1118032-14	ADPL10	10/04/18 07:24
ADPL9	R1118032-22	ADPL9	10/04/18 07:50
ADPL8	R1118032-21	ADPL8	10/04/18 08:15
ADPL7	R1118032-20	ADPL7	10/04/18 08:40
ADPL6	R1118032-19	ADPL6	10/04/18 09:05
ADPL5	R1118032-18	ADPL5	10/04/18 09:30
ADPL4	R1118032-17	ADPL4	10/04/18 09:56
ADPL3	R1118032-16	ADPL3	10/04/18 10:21
ADPL2	R1118032-15	ADPL2	10/04/18 10:46
ADPL1	R1118032-13	ADPL1	10/04/18 11:11
ADP ICV Quant Report	R1118032-34	ADPICV	10/04/18 11:37

Instrument Performance Check
Decafluorotriphenylphosphine (DFTPP)
Form 5

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: SV109	**Analysis Date**	: 12/05/18 12:41
Tune Standard	: WG1185944-1	**Tune File ID**	: Deg1205a_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	55.1
68	Less than 2.0% of mass 69	0.5 (1.3)1
70	Less than 2.0% of mass 69	0.3 (.7)1
127	10.0 - 80.0% of Base Peak	54.2
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.8
275	10.0 - 60.0% of Base Peak	27.2
365	Greater than 1.0% of mass 198	3.3
441	Present, but less than 24% of mass 442	17.6
442	Base Peak, or >50% of mass 198	78.7
443	15.0 - 24.0% of mass 442	16.1 (20.4)2

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

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1185944-4CCAL	WG1185944-4	AP91205	12/05/18 13:33
WG1185944-5CCAL	WG1185944-5	ADP1205	12/05/18 13:57
WG1185944-3CCAL	WG1185944-3	ABN1205A	12/05/18 14:22
WG1184852-1BLANK	WG1184852-1	184852-1	12/05/18 16:59
WG1184852-2LCS	WG1184852-2	184852-2	12/05/18 17:24
WG1184852-3LCSD	WG1184852-3	184852-3	12/05/18 17:49

Instrument Performance Check
Decafluorotriphenylphosphine (DFTPP)
Form 5

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: SV103	**Analysis Date**	: 12/04/18 23:44
Tune Standard	: R1138409-1	**Tune File ID**	: Tune1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	77.6
68	Less than 2.0% of mass 69	0.5 (.8)1
70	Less than 2.0% of mass 69	0.3 (.4)1
127	10.0 - 80.0% of Base Peak	67.1
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	7
275	10.0 - 60.0% of Base Peak	22.3
365	Greater than 1.0% of mass 198	3.2
441	Present, but less than 24% of mass 442	18.1
442	Base Peak, or >50% of mass 198	75.8
443	15.0 - 24.0% of mass 442	14.9 (19.6)2

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

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
ABNL10	R1138409-8	ABNL10	12/05/18 00:09
ABNL9	R1138409-16	ABNL9	12/05/18 00:35
ABNL8	R1138409-15	ABNL8	12/05/18 01:00
ABNL7	R1138409-14	ABNL7	12/05/18 01:26
ABNL6	R1138409-13	ABNL6	12/05/18 01:51
ABNL5	R1138409-12	ABNL5	12/05/18 02:16
ABNL4	R1138409-11	ABNL4	12/05/18 02:42
ABNL3	R1138409-10	ABNL3	12/05/18 03:07
ABNL2	R1138409-9	ABNL2	12/05/18 03:33
ABNL1	R1138409-7	ABNL1	12/05/18 03:58
AP9L10	R1138409-28	AP9L10	12/05/18 04:23
AP9L9	R1138409-36	AP9L9	12/05/18 04:49
AP9L8	R1138409-35	AP9L8	12/05/18 05:14
AP9L7	R1138409-34	AP9L7	12/05/18 05:39
AP9L6	R1138409-33	AP9L6	12/05/18 06:05
AP9L5	R1138409-31	AP9L5	12/05/18 06:30
AP9L4	R1138409-32	AP9L4	12/05/18 06:56
AP9L3	R1138409-30	AP9L3	12/05/18 07:22
AP9L2	R1138409-29	AP9L2	12/05/18 07:48
AP9L1	R1138409-27	AP9L1	12/05/18 08:14
ABN ICV Quant Report	R1138409-4	ABNICV	12/05/18 08:39
AP9 ICV Quant Report	R1138409-5	AP9ICV	12/05/18 09:05

Instrument Performance Check
Decafluorotriphenylphosphine (DFTPP)
Form 5

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: SV103	**Analysis Date**	: 12/05/18 19:59
Tune Standard	: R1138409-3	**Tune File ID**	: Tune3a_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	62.8
68	Less than 2.0% of mass 69	0.3 (.8)1
70	Less than 2.0% of mass 69	0 (0)1
127	10.0 - 80.0% of Base Peak	65
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	7
275	10.0 - 60.0% of Base Peak	21.8
365	Greater than 1.0% of mass 198	2.7
441	Present, but less than 24% of mass 442	19.2
442	Base Peak, or >50% of mass 198	88
443	15.0 - 24.0% of mass 442	17.5 (19.9)2

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

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
ADPL10r	R1138409-17	ADPL10R	12/05/18 20:24
ADPL9r	R1138409-26	ADPL9R	12/05/18 20:49
ADPL8r	R1138409-25	ADPL8R	12/05/18 21:15
ADPL7r	R1138409-24	ADPL7R	12/05/18 21:41
ADPL6r	R1138409-23	ADPL6R	12/05/18 22:06
ADPL5r	R1138409-22	ADPL5R	12/05/18 22:32
ADPL4r	R1138409-21	ADPL4R	12/05/18 22:57
ADPL3r	R1138409-20	ADPL3R	12/05/18 23:23
ADPL2r	R1138409-19	ADPL2R	12/05/18 23:48
ADPL1r	R1138409-18	ADPL1R	12/06/18 00:14
ADP ICV Quant Report	R1138409-6	ADPICVR	12/06/18 00:39

Instrument Performance Check
Decafluorotriphenylphosphine (DFTPP)
Form 5

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: SV103	**Analysis Date**	: 12/07/18 12:01
Tune Standard	: WG1186894-1	**Tune File ID**	: Deg1207a_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	56.9
68	Less than 2.0% of mass 69	0.4 (.8)1
70	Less than 2.0% of mass 69	0.2 (.4)1
127	10.0 - 80.0% of Base Peak	60.8
197	Less than 2.0% of mass 198	0.5
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.7
275	10.0 - 60.0% of Base Peak	22.4
365	Greater than 1.0% of mass 198	2.5
441	Present, but less than 24% of mass 442	19.2
442	Base Peak, or >50% of mass 198	83.5
443	15.0 - 24.0% of mass 442	16.3 (19.5)2

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

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1186894-3CCAL	WG1186894-3	ABN1207A	12/07/18 12:36
WG1186894-4CCAL	WG1186894-4	AP91207A	12/07/18 13:02
WG1186894-5CCAL	WG1186894-5	ADP1207B	12/07/18 14:18
CB-02	L1849060-02D	49060-02	12/07/18 20:17

Instrument Performance Check
Decafluorotriphenylphosphine (DFTPP)
Form 5

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: SV103	**Analysis Date**	: 12/09/18 16:30
Tune Standard	: WG1187317-1	**Tune File ID**	: Deg1209a_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	56
68	Less than 2.0% of mass 69	0.7 (1.3)1
70	Less than 2.0% of mass 69	0.4 (.8)1
127	10.0 - 80.0% of Base Peak	61.5
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.8
275	10.0 - 60.0% of Base Peak	22.4
365	Greater than 1.0% of mass 198	2.6
441	Present, but less than 24% of mass 442	17.3
442	Base Peak, or >50% of mass 198	77.5
443	15.0 - 24.0% of mass 442	16 (20.6)2

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

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1187317-3CCAL	WG1187317-3	ABN1209	12/09/18 16:59
WG1187317-4CCAL	WG1187317-4	AP91209	12/09/18 17:25
WG1187317-5CCAL	WG1187317-5	ADP1209	12/09/18 17:51
WG1184852-4MS	WG1184852-4D	184852-4	12/09/18 22:11
WG1184852-5MSD	WG1184852-5D	184852-5	12/09/18 22:37
CB-03	L1849060-03D	49060-03	12/09/18 23:02
DUP-18	L1849060-06D	49060-06	12/09/18 23:28

Instrument Performance Check
Decafluorotriphenylphosphine (DFTPP)
Form 5

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: SV112	**Analysis Date**	: 12/05/18 19:52
Tune Standard	: R1138822-1	**Tune File ID**	: Tune1_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	41
68	Less than 2.0% of mass 69	0.7 (1.6)1
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	56.3
197	Less than 2.0% of mass 198	0.4
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	6.9
275	10.0 - 60.0% of Base Peak	22.1
365	Greater than 1.0% of mass 198	2.8
441	Present, but less than 24% of mass 442	16.6
442	Base Peak, or >50% of mass 198	70
443	15.0 - 24.0% of mass 442	13.7 (19.6)2

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

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
ABNL10	R1138822-6	ABNL10	12/05/18 20:17
ABNL9	R1138822-14	ABNL9	12/05/18 20:43
ABNL8	R1138822-13	ABNL8	12/05/18 21:08
ABNL7	R1138822-12	ABNL7	12/05/18 21:34
ABNL6	R1138822-11	ABNL6	12/05/18 21:59
ABNL5	R1138822-10	ABNL5	12/05/18 22:24
ABNL4	R1138822-9	ABNL4	12/05/18 22:50
ABNL3	R1138822-8	ABNL3	12/05/18 23:15
ABNL2	R1138822-7	ABNL2	12/05/18 23:41
ABNL1	R1138822-5	ABNL1	12/06/18 00:06
AP9L10	R1138822-26	AP9L10	12/06/18 00:32
AP9L9	R1138822-34	AP9L9	12/06/18 00:58
AP9L8	R1138822-33	AP9L8	12/06/18 01:23
AP9L7	R1138822-32	AP9L7	12/06/18 01:49
AP9L6	R1138822-31	AP9L6	12/06/18 02:14
AP9L5	R1138822-29	AP9L5	12/06/18 02:40
AP9L4	R1138822-30	AP9L4	12/06/18 03:05
AP9L3	R1138822-28	AP9L3	12/06/18 03:31
AP9L2	R1138822-27	AP9L2	12/06/18 03:56
AP9L1	R1138822-25	AP9L1	12/06/18 04:21
ABN ICV Quant Report	R1138822-35	ABNICV	12/06/18 04:46
AP9 ICV Quant Report	R1138822-4	AP9ICV	12/06/18 05:12

Instrument Performance Check
Decafluorotriphenylphosphine (DFTPP)
Form 5

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: SV112	**Analysis Date**	: 12/06/18 05:37
Tune Standard	: R1138822-2	**Tune File ID**	: Tune2_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	39.7
68	Less than 2.0% of mass 69	0.6 (1.6)1
70	Less than 2.0% of mass 69	0.2 (.4)1
127	10.0 - 80.0% of Base Peak	57
197	Less than 2.0% of mass 198	0.3
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	7
275	10.0 - 60.0% of Base Peak	22.6
365	Greater than 1.0% of mass 198	3
441	Present, but less than 24% of mass 442	17
442	Base Peak, or >50% of mass 198	74
443	15.0 - 24.0% of mass 442	14.5 (19.7)2

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

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
ADPL10	R1138822-16	ADPL10	12/06/18 06:02
ADPL9	R1138822-23	ADPL9	12/06/18 06:28
ADPL8	R1138822-24	ADPL8	12/06/18 06:53
ADPL7	R1138822-22	ADPL7	12/06/18 07:19
ADPL6	R1138822-20	ADPL6	12/06/18 07:44
ADPL5	R1138822-21	ADPL5	12/06/18 08:10
ADPL4	R1138822-19	ADPL4	12/06/18 08:35
ADPL3	R1138822-18	ADPL3	12/06/18 09:00
ADPL2	R1138822-17	ADPL2	12/06/18 09:26
ADPL1	R1138822-15	ADPL1	12/06/18 09:51
ADP ICV Quant Report	R1138822-3	ADPICV	12/06/18 10:17

Instrument Performance Check
Decafluorotriphenylphosphine (DFTPP)
Form 5

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: SV112	**Analysis Date**	: 12/06/18 14:49
Tune Standard	: WG1186484-1	**Tune File ID**	: Deg1206_tune

m/e	Ion Abundance Criteria	%Relative Abundance
51	10.0 - 80.0% of Base Peak	38.6
68	Less than 2.0% of mass 69	0.7 (1.6)1
70	Less than 2.0% of mass 69	0.2 (.5)1
127	10.0 - 80.0% of Base Peak	57
197	Less than 2.0% of mass 198	0
198	Base Peak, or >50% of mass 442	100
199	5.0 - 9.0% of mass 198	7
275	10.0 - 60.0% of Base Peak	23.2
365	Greater than 1.0% of mass 198	3
441	Present, but less than 24% of mass 442	16.4
442	Base Peak, or >50% of mass 198	74.8
443	15.0 - 24.0% of mass 442	14.7 (19.6)2

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

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1186484-3CCAL	WG1186484-3	ABN1206	12/06/18 15:16
WG1186484-4CCAL	WG1186484-4	AP91206	12/06/18 15:42
WG1186484-5CCAL	WG1186484-5	ADP1206	12/06/18 16:07
CB-02	L1849060-02	49060-02	12/07/18 00:35
CB-04	L1849060-04	49060-04	12/07/18 01:26
CB-01	L1849060-05	49060-05	12/07/18 01:51

Internal Standard Area and RT Summary
Form 8

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: SV109	**Analysis Date**	: 12/05/18 14:22
Sample No	: WG1185944-3	**Lab File ID**	: ABN1205A

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG1185944-3	124127	4.75	530407	5.99	294014	7.70
Upper Limit	248254	5.25	1060814	6.49	588028	8.20
Lower Limit	62064	4.25	265204	5.49	147007	7.20
Sample ID						
WG1185944-4 CCAL	124227	4.75	535508	5.99	298790	7.70
WG1185944-5 CCAL	127662	4.75	-	-	298886	7.70
WG1184852-1 BLANK	124255	4.75	523649	5.99	268554	7.70
WG1184852-2 LCS	121662	4.75	525656	5.99	269439	7.70
WG1184852-3 LCSD	113522	4.75	490189	5.99	258288	7.70

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: SV109	**Analysis Date**	: 12/05/18 13:33
Sample No	: WG1185944-3	**Lab File ID**	: ABN1205A

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG1185944-3	574704	9.14	594823	11.99	616042	14.12
Upper Limit	1149408	9.64	1189646	12.49	1232084	14.62
Lower Limit	287352	8.64	297412	11.49	308021	13.62
Sample ID						
WG1185944-4 CCAL	603067	9.14	-	-	-	-
WG1185944-5 CCAL	592015	9.14	-	-	-	-
WG1184852-1 BLANK	591253	9.13	621108	11.99	665262	14.12
WG1184852-2 LCS	577516	9.13	596977	11.99	644665	14.12
WG1184852-3 LCSD	557153	9.14	572821	11.99	603306	14.12

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: SV112	**Analysis Date**	: 12/06/18 15:16
Sample No	: WG1186484-3	**Lab File ID**	: ABN1206

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG1186484-3	160010	4.78	659812	6.03	337355	7.75
Upper Limit	320020	5.28	1319624	6.53	674710	8.25
Lower Limit	80005	4.28	329906	5.53	168678	7.25
Sample ID						
WG1186484-4 CCAL	165516	4.78	688464	6.03	340011	7.74
WG1186484-5 CCAL	167944	4.78	-	-	332171	7.74
CB-02	208994	4.79	885211	6.03	431670	7.75
CB-04	209369	4.79	890576	6.03	429623	7.75
CB-01	227410	4.79	953384	6.04	455924	7.75

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: SV112	**Analysis Date**	: 12/06/18 15:16
Sample No	: WG1186484-3	**Lab File ID**	: ABN1206

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG1186484-3	577618	9.19	540685	11.86	528741	13.34
Upper Limit	1155236	9.69	1081370	12.36	1057482	13.84
Lower Limit	288809	8.69	270343	11.36	264371	12.84
Sample ID						
WG1186484-4 CCAL	605765	9.18	-	-	-	-
WG1186484-5 CCAL	608062	9.18	-	-	-	-
CB-02	815917	9.19	669772	11.87	681490	13.36
CB-04	830189	9.19	653001	11.87	636524	13.36
CB-01	857161	9.20	674426	11.88	691785	13.38

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: SV103	**Analysis Date**	: 12/07/18 12:36
Sample No	: WG1186894-3	**Lab File ID**	: ABN1207A

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG1186894-3	78275	4.80	335440	6.04	161684	7.76
Upper Limit	156550	5.30	670880	6.54	323368	8.26
Lower Limit	39138	4.30	167720	5.54	80842	7.26
Sample ID						
WG1186894-4 CCAL	69779	4.80	297590	6.04	137134	7.75
WG1186894-5 CCAL	65861	4.80	-	-	136449	7.75
CB-02	66649	4.80	286427	6.04	134893	7.75

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: SV103	**Analysis Date**	: 12/07/18 12:36
Sample No	: WG1186894-3	**Lab File ID**	: ABN1207A

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG1186894-3	303781	9.19	259933	12.08	250796	14.22
Upper Limit	607562	9.69	519866	12.58	501592	14.72
Lower Limit	151891	8.69	129967	11.58	125398	13.72
Sample ID						
WG1186894-4 CCAL	265255	9.19	-	-	-	-
WG1186894-5 CCAL	238144	9.19	-	-	-	-
CB-02	251431	9.19	204856	12.07	205317	14.23

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: SV103	**Analysis Date**	: 12/09/18 16:59
Sample No	: WG1187317-3	**Lab File ID**	: ABN1209

	1,4-Dichlorobenzene-d4		Naphthalene-d8		Acenaphthene-d10	
	Area	RT	Area	RT	Area	RT
WG1187317-3	67385	4.78	288220	6.02	144644	7.73
Upper Limit	134770	5.28	576440	6.52	289288	8.23
Lower Limit	33693	4.28	144110	5.52	72322	7.23
Sample ID						
WG1187317-4 CCAL	68471	4.78	296762	6.02	152009	7.73
WG1187317-5 CCAL	64268	4.78	-	-	132109	7.73
CB-03 MS	61157	4.78	259494	6.02	114720	7.73
CB-03 MSD	60192	4.78	257309	6.02	112629	7.73
CB-03	63842	4.78	273332	6.02	120026	7.73
DUP-18	70290	4.78	303250	6.02	129698	7.73

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: SV103	**Analysis Date**	: 12/09/18 16:59
Sample No	: WG1187317-3	**Lab File ID**	: ABN1209

	Phenanthrene-d10		Chrysene-d12		Perylene-d12	
	Area	RT	Area	RT	Area	RT
WG1187317-3	243640	9.17	211435	12.04	215613	14.18
Upper Limit	487280	9.67	422870	12.54	431226	14.68
Lower Limit	121820	8.67	105718	11.54	107807	13.68
Sample ID						
WG1187317-4 CCAL	270363	9.17	-	-	-	-
WG1187317-5 CCAL	225714	9.17	-	-	-	-
CB-03 MS	206703	9.17	168301	12.04	173424	14.19
CB-03 MSD	199013	9.17	160616	12.04	166022	14.19
CB-03	208772	9.17	165267	12.04	171800	14.20
DUP-18	224140	9.17	173295	12.04	180363	14.21

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area

RT Upper Limit = +0.50 minutes of internal standard RT
RT Lower Limit = -0.50 minutes of internal standard RT

* Values outside of QC limits

Date Created: 07/26/18
Created By: Jason Hebert
File: PM5244-1
Page: 1

ABN Extractables - EPA 8270D (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 1000ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Acenaphthene	83-32-9	2	0.591	ug/l	37-111	30	37-111	30	30			
Benzidine	92-87-5	20	8.14	ug/l	10-75	30	10-75	30	30			
1,2,4-Trichlorobenzene	120-82-1	5	0.661	ug/l	39-98	30	39-98	30	30			
Hexachlorobenzene	118-74-1	2	0.579	ug/l	40-140	30	40-140	30	30			
Bis(2-chloroethyl)ether	111-44-4	2	0.669	ug/l	40-140	30	40-140	30	30			
2-Chloronaphthalene	91-58-7	2	0.64	ug/l	40-140	30	40-140	30	30			
1,2-Dichlorobenzene	95-50-1	2	0.732	ug/l	40-140	30	40-140	30	30			
1,3-Dichlorobenzene	541-73-1	2	0.688	ug/l	40-140	30	40-140	30	30			
1,4-Dichlorobenzene	106-46-7	2	0.708	ug/l	36-97	30	36-97	30	30			
3,3'-Dichlorobenzidine	91-94-1	5	1.39	ug/l	40-140	30	40-140	30	30			
2,4-Dinitrotoluene	121-14-2	5	0.845	ug/l	48-143	30	48-143	30	30			
2,6-Dinitrotoluene	606-20-2	5	1.12	ug/l	40-140	30	40-140	30	30			
Azobenzene	122-66-7	2	0.749	ug/l	40-140	30	40-140	30	30			
Fluoranthene	206-44-0	2	0.568	ug/l	40-140	30	40-140	30	30			
4-Chlorophenyl phenyl ether	7005-72-3	2	0.625	ug/l	40-140	30	40-140	30	30			
4-Bromophenyl phenyl ether	101-55-3	2	0.731	ug/l	40-140	30	40-140	30	30			
Bis(2-chloroisopropyl)ether	108-60-1	2	0.696	ug/l	40-140	30	40-140	30	30			
Bis(2-chloroethoxy)methane	111-91-1	5	0.626	ug/l	40-140	30	40-140	30	30			
Hexachlorobutadiene	87-68-3	2	0.717	ug/l	40-140	30	40-140	30	30			
Hexachlorocyclopentadiene	77-47-4	20	7.84	ug/l	40-140	30	40-140	30	30			
Hexachloroethane	67-72-1	2	0.682	ug/l	40-140	30	40-140	30	30			
Isophorone	78-59-1	5	0.601	ug/l	40-140	30	40-140	30	30			
Naphthalene	91-20-3	2	0.68	ug/l	40-140	30	40-140	30	30			
Nitrobenzene	98-95-3	2	0.753	ug/l	40-140	30	40-140	30	30			
NitrosoDiPhenylAmine(NDPA)/DPA	86-30-6	2	0.644	ug/l	40-140	30	40-140	30	30			
n-Nitrosodi-n-propylamine	621-64-7	5	0.7	ug/l	29-132	30	29-132	30	30			
Bis(2-Ethylhexyl)phthalate	117-81-7	3	0.91	ug/l	40-140	30	40-140	30	30			
Butyl benzyl phthalate	85-68-7	5	1.26	ug/l	40-140	30	40-140	30	30			
Di-n-butylphthalate	84-74-2	5	0.689	ug/l	40-140	30	40-140	30	30			
Di-n-octylphthalate	117-84-0	5	1.14	ug/l	40-140	30	40-140	30	30			
Diethyl phthalate	84-66-2	5	0.628	ug/l	40-140	30	40-140	30	30			
Dimethyl phthalate	131-11-3	5	0.65	ug/l	40-140	30	40-140	30	30			
Benzo(a)anthracene	56-55-3	2	0.61	ug/l	40-140	30	40-140	30	30			
Benzo(a)pyrene	50-32-8	2	0.539	ug/l	40-140	30	40-140	30	30			
Benzo(b)fluoranthene	205-99-2	2	0.635	ug/l	40-140	30	40-140	30	30			
Benzo(k)fluoranthene	207-08-9	2	0.597	ug/l	40-140	30	40-140	30	30			
Chrysene	218-01-9	2	0.543	ug/l	40-140	30	40-140	30	30			
Acenaphthylene	208-96-8	2	0.658	ug/l	45-123	30	45-123	30	30			
Anthracene	120-12-7	2	0.645	ug/l	40-140	30	40-140	30	30			
Benzo(ghi)perylene	191-24-2	2	0.611	ug/l	40-140	30	40-140	30	30			
Fluorene	86-73-7	2	0.619	ug/l	40-140	30	40-140	30	30			
Phenanthrene	85-01-8	2	0.613	ug/l	40-140	30	40-140	30	30			

Please Note that the RL information provided in this table is calculated using a 100% Solids factor (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, In

ABN Extractables - EPA 8270D (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 1000ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Dibenzo(a,h)anthracene	53-70-3	2	0.548	ug/l	40-140	30	40-140	30	30			
Indeno(1,2,3-cd)Pyrene	193-39-5	2	0.707	ug/l	40-140	30	40-140	30	30			
Pyrene	129-00-0	2	0.569	ug/l	26-127	30	26-127	30	30			
Biphenyl	92-52-4	2	0.757	ug/l	40-140	30	40-140	30	30			
Aniline	62-53-3	2	0.649	ug/l	40-140	30	40-140	30	30			
4-Chloroaniline	106-47-8	5	0.632	ug/l	40-140	30	40-140	30	30			
1-Methylnaphthalene	90-12-0	2	0.674	ug/l	41-103	30	41-103	30	30			
2-Nitroaniline	88-74-4	5	1.14	ug/l	52-143	30	52-143	30	30			
3-Nitroaniline	99-09-2	5	1.22	ug/l	25-145	30	25-145	30	30			
4-Nitroaniline	100-01-6	5	1.3	ug/l	51-143	30	51-143	30	30			
Dibenzofuran	132-64-9	2	0.656	ug/l	40-140	30	40-140	30	30			
2-Methylnaphthalene	91-57-6	2	0.72	ug/l	40-140	30	40-140	30	30			
n-Nitrosodimethylamine	62-75-9	2	0.666	ug/l	22-74	30	22-74	30	30			
2,4,6-Trichlorophenol	88-06-2	5	0.681	ug/l	30-130	30	30-130	30	30			
P-Chloro-M-Cresol	59-50-7	2	0.617	ug/l	23-97	30	23-97	30	30			
2-Chlorophenol	95-57-8	2	0.631	ug/l	27-123	30	27-123	30	30			
2,4-Dichlorophenol	120-83-2	5	0.769	ug/l	30-130	30	30-130	30	30			
2,4-Dimethylphenol	105-67-9	5	1.64	ug/l	30-130	30	30-130	30	30			
2-Nitrophenol	88-75-5	10	1.52	ug/l	30-130	30	30-130	30	30			
4-Nitrophenol	100-02-7	10	1.77	ug/l	10-80	30	10-80	30	30			
2,4-Dinitrophenol	51-28-5	20	5.47	ug/l	20-130	30	20-130	30	30			
4,6-Dinitro-o-cresol	534-52-1	10	2.1	ug/l	20-164	30	20-164	30	30			
Pentachlorophenol	87-86-5	10	3.43	ug/l	9-103	30	9-103	30	30			
Phenol	108-95-2	5	1.89	ug/l	12-110	30	12-110	30	30			
2-Methylphenol	95-48-7	5	1.02	ug/l	30-130	30	30-130	30	30			
3-Methylphenol/4-Methylphenol	106-44-5	5	1.11	ug/l	30-130	30	30-130	30	30			
2,4,5-Trichlorophenol	95-95-4	5	0.715	ug/l	30-130	30	30-130	30	30			
Benzoic Acid	65-85-0	50	12.9	ug/l	10-164	30	10-164	30	30			
Benzyl Alcohol	100-51-6	2	0.725	ug/l	26-116	30	26-116	30	30			
Carbazole	86-74-8	2	0.627	ug/l	55-144	30	55-144	30	30			
Pyridine	110-86-1	3.5	1.87	ug/l	10-66	30	10-66	30	30			
2-Fluorophenol	*367-12-4*									*21-120*		
Phenol-d6	*13127-88-3*									*10-120*		
Nitrobenzene-d5	*4165-60-0*									*23-120*		
2-Fluorobiphenyl	*321-60-8*									*15-120*		
2,4,6-Tribromophenol	*118-79-6*									*10-120*		
4-Terphenyl-d14	*1718-51-0*									*41-149*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, In

Semivolatile Sample Data

Form 1
SemiVolatile Organics

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-02	Date Collected	: 11/30/18 09:05
Client ID	: CB-02	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/07/18 00:35
Sample Matrix	: SOIL	Date Extracted	: 12/03/18
Analytical Method	: 1,8270D	Dilution Factor	: 1
Lab File ID	: 49060-02	Analyst	: RC
Sample Amount	: 30.42 g	Instrument ID	: SV112
Extraction Method	: EPA 3546	GC Column	: RTX5-MS
Extract Volume	: 1000 uL	%Solids	: 66
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
83-32-9	Acenaphthene	140	200	26.	J
118-74-1	Hexachlorobenzene	ND	150	28.	U
111-44-4	Bis(2-chloroethyl)ether	ND	220	34.	U
91-58-7	2-Chloronaphthalene	ND	250	24.	U
91-94-1	3,3'-Dichlorobenzidine	ND	250	66.	U
121-14-2	2,4-Dinitrotoluene	ND	250	50.	U
606-20-2	2,6-Dinitrotoluene	ND	250	42.	U
206-44-0	Fluoranthene	2300	150	28.	
7005-72-3	4-Chlorophenyl phenyl ether	ND	250	26.	U
101-55-3	4-Bromophenyl phenyl ether	ND	250	38.	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	300	42.	U
111-91-1	Bis(2-chloroethoxy)methane	ND	270	25.	U
87-68-3	Hexachlorobutadiene	ND	250	36.	U
77-47-4	Hexachlorocyclopentadiene	ND	710	220	U
67-72-1	Hexachloroethane	ND	200	40.	U
78-59-1	Isophorone	ND	220	32.	U
91-20-3	Naphthalene	300	250	30.	
98-95-3	Nitrobenzene	ND	220	37.	U
86-30-6	NDPA/DPA	38	200	28.	J
621-64-7	n-Nitrosodi-n-propylamine	ND	250	38.	U
117-81-7	Bis(2-ethylhexyl)phthalate	20000	250	86.	E
85-68-7	Butyl benzyl phthalate	980	250	62.	
84-74-2	Di-n-butylphthalate	670	250	47.	
117-84-0	Di-n-octylphthalate	480	250	84.	

Form 1
SemiVolatile Organics

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-02	Date Collected	: 11/30/18 09:05
Client ID	: CB-02	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/07/18 00:35
Sample Matrix	: SOIL	Date Extracted	: 12/03/18
Analytical Method	: 1,8270D	Dilution Factor	: 1
Lab File ID	: 49060-02	Analyst	: RC
Sample Amount	: 30.42 g	Instrument ID	: SV112
Extraction Method	: EPA 3546	GC Column	: RTX5-MS
Extract Volume	: 1000 uL	%Solids	: 66
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
84-66-2	Diethyl phthalate	ND	250	23.	U
131-11-3	Dimethyl phthalate	390	250	52.	
56-55-3	Benzo(a)anthracene	1300	150	28.	
50-32-8	Benzo(a)pyrene	1500	200	60.	
205-99-2	Benzo(b)fluoranthene	2100	150	42.	
207-08-9	Benzo(k)fluoranthene	700	150	40.	
218-01-9	Chrysene	1300	150	26.	
208-96-8	Acenaphthylene	260	200	38.	
120-12-7	Anthracene	540	150	48.	
191-24-2	Benzo(ghi)perylene	1400	200	29.	
86-73-7	Fluorene	180	250	24.	J
85-01-8	Phenanthrene	1400	150	30.	
53-70-3	Dibenzo(a,h)anthracene	290	150	29.	
193-39-5	Indeno(1,2,3-cd)pyrene	1400	200	34.	
129-00-0	Pyrene	2000	150	25.	
92-52-4	Biphenyl	66	560	58.	J
106-47-8	4-Chloroaniline	ND	250	45.	U
88-74-4	2-Nitroaniline	ND	250	48.	U
99-09-2	3-Nitroaniline	ND	250	47.	U
100-01-6	4-Nitroaniline	ND	250	100	U
132-64-9	Dibenzofuran	110	250	23.	J
91-57-6	2-Methylnaphthalene	340	300	30.	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	250	26.	U
98-86-2	Acetophenone	240	250	31.	J

Form 1
SemiVolatile Organics

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-02	Date Collected	: 11/30/18 09:05
Client ID	: CB-02	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/07/18 00:35
Sample Matrix	: SOIL	Date Extracted	: 12/03/18
Analytical Method	: 1,8270D	Dilution Factor	: 1
Lab File ID	: 49060-02	Analyst	: RC
Sample Amount	: 30.42 g	Instrument ID	: SV112
Extraction Method	: EPA 3546	GC Column	: RTX5-MS
Extract Volume	: 1000 uL	%Solids	: 66
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
88-06-2	2,4,6-Trichlorophenol	ND	150	47.	U
59-50-7	p-Chloro-m-cresol	ND	250	37.	U
95-57-8	2-Chlorophenol	ND	250	29.	U
120-83-2	2,4-Dichlorophenol	ND	220	40.	U
105-67-9	2,4-Dimethylphenol	ND	250	82.	U
88-75-5	2-Nitrophenol	ND	540	93.	U
100-02-7	4-Nitrophenol	ND	350	100	U
51-28-5	2,4-Dinitrophenol	ND	1200	120	U
534-52-1	4,6-Dinitro-o-cresol	ND	640	120	U
87-86-5	Pentachlorophenol	ND	200	54.	U
108-95-2	Phenol	160	250	37.	J
95-48-7	2-Methylphenol	ND	250	38.	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	88	360	39.	J
95-95-4	2,4,5-Trichlorophenol	ND	250	47.	U
86-74-8	Carbazole	230	250	24.	J
1912-24-9	Atrazine	ND	200	87.	U
100-52-7	Benzaldehyde	ND	330	67.	U
105-60-2	Caprolactam	290	250	75.	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	250	50.	U

Form 1
SemiVolatile Organics

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Lab ID	: L1849060-02D	**Date Collected**	: 11/30/18 09:05
Client ID	: CB-02	**Date Received**	: 11/30/18
Sample Location	: PORT OF ALBANY	**Date Analyzed**	: 12/07/18 20:17
Sample Matrix	: SOIL	**Date Extracted**	: 12/03/18
Analytical Method	: 1,8270D	**Dilution Factor**	: 5
Lab File ID	: 49060-02	**Analyst**	: EK
Sample Amount	: 30.42 g	**Instrument ID**	: SV103
Extraction Method	: EPA 3546	**GC Column**	: RTX5-MS
Extract Volume	: 1000 uL	**%Solids**	: 66
GPC Cleanup	: N	**Injection Volume**	: 1 uL

		ug/Kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
117-81-7	Bis(2-ethylhexyl)phthalate	43000	1200	430	

Form 1
SemiVolatile Organics

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-03D	Date Collected	: 11/30/18 09:25
Client ID	: CB-03	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/09/18 23:02
Sample Matrix	: SOIL	Date Extracted	: 12/03/18
Analytical Method	: 1,8270D	Dilution Factor	: 5
Lab File ID	: 49060-03	Analyst	: RC
Sample Amount	: 30.51 g	Instrument ID	: SV103
Extraction Method	: EPA 3546	GC Column	: RTX5-MS
Extract Volume	: 1000 uL	%Solids	: 50
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
83-32-9	Acenaphthene	ND	1300	170	U
118-74-1	Hexachlorobenzene	ND	980	180	U
111-44-4	Bis(2-chloroethyl)ether	ND	1500	220	U
91-58-7	2-Chloronaphthalene	ND	1600	160	U
91-94-1	3,3'-Dichlorobenzidine	ND	1600	440	U
121-14-2	2,4-Dinitrotoluene	ND	1600	330	U
606-20-2	2,6-Dinitrotoluene	ND	1600	280	U
206-44-0	Fluoranthene	3000	980	190	
7005-72-3	4-Chlorophenyl phenyl ether	ND	1600	180	U
101-55-3	4-Bromophenyl phenyl ether	ND	1600	250	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2000	280	U
111-91-1	Bis(2-chloroethoxy)methane	ND	1800	160	U
87-68-3	Hexachlorobutadiene	ND	1600	240	U
77-47-4	Hexachlorocyclopentadiene	ND	4700	1500	U
67-72-1	Hexachloroethane	ND	1300	260	U
78-59-1	Isophorone	ND	1500	210	U
91-20-3	Naphthalene	340	1600	200	J
98-95-3	Nitrobenzene	ND	1500	240	U
86-30-6	NDPA/DPA	ND	1300	190	U
621-64-7	n-Nitrosodi-n-propylamine	ND	1600	250	U
117-81-7	Bis(2-ethylhexyl)phthalate	33000	1600	570	
85-68-7	Butyl benzyl phthalate	ND	1600	410	U
84-74-2	Di-n-butylphthalate	ND	1600	310	U
117-84-0	Di-n-octylphthalate	ND	1600	560	U

Form 1
SemiVolatile Organics

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-03D	Date Collected	: 11/30/18 09:25
Client ID	: CB-03	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/09/18 23:02
Sample Matrix	: SOIL	Date Extracted	: 12/03/18
Analytical Method	: 1,8270D	Dilution Factor	: 5
Lab File ID	: 49060-03	Analyst	: RC
Sample Amount	: 30.51 g	Instrument ID	: SV103
Extraction Method	: EPA 3546	GC Column	: RTX5-MS
Extract Volume	: 1000 uL	%Solids	: 50
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
84-66-2	Diethyl phthalate	ND	1600	150	U
131-11-3	Dimethyl phthalate	ND	1600	340	U
56-55-3	Benzo(a)anthracene	1200	980	180	
50-32-8	Benzo(a)pyrene	1000	1300	400	J
205-99-2	Benzo(b)fluoranthene	2400	980	280	
207-08-9	Benzo(k)fluoranthene	730	980	260	J
218-01-9	Chrysene	1900	980	170	
208-96-8	Acenaphthylene	ND	1300	250	U
120-12-7	Anthracene	420	980	320	J
191-24-2	Benzo(ghi)perylene	1000	1300	190	J
86-73-7	Fluorene	190	1600	160	J
85-01-8	Phenanthrene	1800	980	200	
53-70-3	Dibenzo(a,h)anthracene	260	980	190	J
193-39-5	Indeno(1,2,3-cd)pyrene	1100	1300	230	J
129-00-0	Pyrene	2500	980	160	
92-52-4	Biphenyl	ND	3700	380	U
106-47-8	4-Chloroaniline	ND	1600	300	U
88-74-4	2-Nitroaniline	ND	1600	320	U
99-09-2	3-Nitroaniline	ND	1600	310	U
100-01-6	4-Nitroaniline	ND	1600	680	U
132-64-9	Dibenzofuran	ND	1600	160	U
91-57-6	2-Methylnaphthalene	260	2000	200	J
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	1600	170	U
98-86-2	Acetophenone	ND	1600	200	U

Form 1
SemiVolatile Organics

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-03D	Date Collected	: 11/30/18 09:25
Client ID	: CB-03	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/09/18 23:02
Sample Matrix	: SOIL	Date Extracted	: 12/03/18
Analytical Method	: 1,8270D	Dilution Factor	: 5
Lab File ID	: 49060-03	Analyst	: RC
Sample Amount	: 30.51 g	Instrument ID	: SV103
Extraction Method	: EPA 3546	GC Column	: RTX5-MS
Extract Volume	: 1000 uL	%Solids	: 50
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
88-06-2	2,4,6-Trichlorophenol	ND	980	310	U
59-50-7	p-Chloro-m-cresol	ND	1600	240	U
95-57-8	2-Chlorophenol	ND	1600	190	U
120-83-2	2,4-Dichlorophenol	ND	1500	260	U
105-67-9	2,4-Dimethylphenol	ND	1600	540	U
88-75-5	2-Nitrophenol	ND	3500	620	U
100-02-7	4-Nitrophenol	ND	2300	670	U
51-28-5	2,4-Dinitrophenol	ND	7900	760	U
534-52-1	4,6-Dinitro-o-cresol	ND	4300	790	U
87-86-5	Pentachlorophenol	ND	1300	360	U
108-95-2	Phenol	380	1600	250	J
95-48-7	2-Methylphenol	ND	1600	250	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	6900	2400	260	
95-95-4	2,4,5-Trichlorophenol	ND	1600	310	U
86-74-8	Carbazole	310	1600	160	J
1912-24-9	Atrazine	ND	1300	570	U
100-52-7	Benzaldehyde	ND	2200	440	U
105-60-2	Caprolactam	ND	1600	500	U
58-90-2	2,3,4,6-Tetrachlorophenol	ND	1600	330	U

Form 1
SemiVolatile Organics

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-04	Date Collected	: 11/30/18 09:45
Client ID	: CB-04	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/07/18 01:26
Sample Matrix	: SOIL	Date Extracted	: 12/03/18
Analytical Method	: 1,8270D	Dilution Factor	: 1
Lab File ID	: 49060-04	Analyst	: RC
Sample Amount	: 30.86 g	Instrument ID	: SV112
Extraction Method	: EPA 3546	GC Column	: RTX5-MS
Extract Volume	: 1000 uL	%Solids	: 86
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
83-32-9	Acenaphthene	21	150	19.	J
118-74-1	Hexachlorobenzene	ND	110	21.	U
111-44-4	Bis(2-chloroethyl)ether	ND	170	25.	U
91-58-7	2-Chloronaphthalene	ND	190	19.	U
91-94-1	3,3'-Dichlorobenzidine	ND	190	50.	U
121-14-2	2,4-Dinitrotoluene	ND	190	38.	U
606-20-2	2,6-Dinitrotoluene	ND	190	32.	U
206-44-0	Fluoranthene	340	110	22.	
7005-72-3	4-Chlorophenyl phenyl ether	ND	190	20.	U
101-55-3	4-Bromophenyl phenyl ether	ND	190	29.	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	220	32.	U
111-91-1	Bis(2-chloroethoxy)methane	ND	200	19.	U
87-68-3	Hexachlorobutadiene	ND	190	27.	U
77-47-4	Hexachlorocyclopentadiene	ND	540	170	U
67-72-1	Hexachloroethane	ND	150	30.	U
78-59-1	Isophorone	ND	170	24.	U
91-20-3	Naphthalene	30	190	23.	J
98-95-3	Nitrobenzene	ND	170	28.	U
86-30-6	NDPA/DPA	ND	150	21.	U
621-64-7	n-Nitrosodi-n-propylamine	ND	190	29.	U
117-81-7	Bis(2-ethylhexyl)phthalate	250	190	65.	
85-68-7	Butyl benzyl phthalate	ND	190	47.	U
84-74-2	Di-n-butylphthalate	ND	190	36.	U
117-84-0	Di-n-octylphthalate	ND	190	64.	U

Form 1
SemiVolatile Organics

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-04	Date Collected	: 11/30/18 09:45
Client ID	: CB-04	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/07/18 01:26
Sample Matrix	: SOIL	Date Extracted	: 12/03/18
Analytical Method	: 1,8270D	Dilution Factor	: 1
Lab File ID	: 49060-04	Analyst	: RC
Sample Amount	: 30.86 g	Instrument ID	: SV112
Extraction Method	: EPA 3546	GC Column	: RTX5-MS
Extract Volume	: 1000 uL	%Solids	: 86
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
84-66-2	Diethyl phthalate	ND	190	17.	U
131-11-3	Dimethyl phthalate	ND	190	39.	U
56-55-3	Benzo(a)anthracene	150	110	21.	
50-32-8	Benzo(a)pyrene	150	150	46.	
205-99-2	Benzo(b)fluoranthene	250	110	32.	
207-08-9	Benzo(k)fluoranthene	91	110	30.	J
218-01-9	Chrysene	200	110	20.	
208-96-8	Acenaphthylene	ND	150	29.	U
120-12-7	Anthracene	55	110	36.	J
191-24-2	Benzo(ghi)perylene	130	150	22.	J
86-73-7	Fluorene	32	190	18.	J
85-01-8	Phenanthrene	220	110	23.	
53-70-3	Dibenzo(a,h)anthracene	32	110	22.	J
193-39-5	Indeno(1,2,3-cd)pyrene	130	150	26.	J
129-00-0	Pyrene	280	110	19.	
92-52-4	Biphenyl	ND	430	44.	U
106-47-8	4-Chloroaniline	ND	190	34.	U
88-74-4	2-Nitroaniline	ND	190	36.	U
99-09-2	3-Nitroaniline	ND	190	35.	U
100-01-6	4-Nitroaniline	ND	190	78.	U
132-64-9	Dibenzofuran	25	190	18.	J
91-57-6	2-Methylnaphthalene	28	220	23.	J
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	190	20.	U
98-86-2	Acetophenone	25	190	23.	J

Form 1
SemiVolatile Organics

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-04	Date Collected	: 11/30/18 09:45
Client ID	: CB-04	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/07/18 01:26
Sample Matrix	: SOIL	Date Extracted	: 12/03/18
Analytical Method	: 1,8270D	Dilution Factor	: 1
Lab File ID	: 49060-04	Analyst	: RC
Sample Amount	: 30.86 g	Instrument ID	: SV112
Extraction Method	: EPA 3546	GC Column	: RTX5-MS
Extract Volume	: 1000 uL	%Solids	: 86
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
88-06-2	2,4,6-Trichlorophenol	ND	110	36.	U
59-50-7	p-Chloro-m-cresol	ND	190	28.	U
95-57-8	2-Chlorophenol	ND	190	22.	U
120-83-2	2,4-Dichlorophenol	ND	170	30.	U
105-67-9	2,4-Dimethylphenol	ND	190	62.	U
88-75-5	2-Nitrophenol	ND	400	70.	U
100-02-7	4-Nitrophenol	ND	260	76.	U
51-28-5	2,4-Dinitrophenol	ND	900	87.	U
534-52-1	4,6-Dinitro-o-cresol	ND	490	90.	U
87-86-5	Pentachlorophenol	ND	150	41.	U
108-95-2	Phenol	140	190	28.	J
95-48-7	2-Methylphenol	ND	190	29.	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	270	29.	U
95-95-4	2,4,5-Trichlorophenol	ND	190	36.	U
86-74-8	Carbazole	26	190	18.	J
1912-24-9	Atrazine	ND	150	66.	U
100-52-7	Benzaldehyde	110	250	51.	J
105-60-2	Caprolactam	ND	190	57.	U
58-90-2	2,3,4,6-Tetrachlorophenol	ND	190	38.	U

Form 1
SemiVolatile Organics

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-05	Date Collected	: 11/30/18 10:10
Client ID	: CB-01	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/07/18 01:51
Sample Matrix	: SOIL	Date Extracted	: 12/03/18
Analytical Method	: 1,8270D	Dilution Factor	: 1
Lab File ID	: 49060-05	Analyst	: RC
Sample Amount	: 30.07 g	Instrument ID	: SV112
Extraction Method	: EPA 3546	GC Column	: RTX5-MS
Extract Volume	: 1000 uL	%Solids	: 73
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
83-32-9	Acenaphthene	ND	180	24.	U
118-74-1	Hexachlorobenzene	ND	140	26.	U
111-44-4	Bis(2-chloroethyl)ether	ND	200	31.	U
91-58-7	2-Chloronaphthalene	ND	230	22.	U
91-94-1	3,3'-Dichlorobenzidine	ND	230	60.	U
121-14-2	2,4-Dinitrotoluene	ND	230	46.	U
606-20-2	2,6-Dinitrotoluene	ND	230	39.	U
206-44-0	Fluoranthene	420	140	26.	
7005-72-3	4-Chlorophenyl phenyl ether	ND	230	24.	U
101-55-3	4-Bromophenyl phenyl ether	ND	230	35.	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	270	39.	U
111-91-1	Bis(2-chloroethoxy)methane	ND	250	23.	U
87-68-3	Hexachlorobutadiene	ND	230	33.	U
77-47-4	Hexachlorocyclopentadiene	ND	650	210	U
67-72-1	Hexachloroethane	ND	180	37.	U
78-59-1	Isophorone	ND	200	30.	U
91-20-3	Naphthalene	120	230	28.	J
98-95-3	Nitrobenzene	ND	200	34.	U
86-30-6	NDPA/DPA	ND	180	26.	U
621-64-7	n-Nitrosodi-n-propylamine	ND	230	35.	U
117-81-7	Bis(2-ethylhexyl)phthalate	1400	230	79.	
85-68-7	Butyl benzyl phthalate	2500	230	57.	
84-74-2	Di-n-butylphthalate	460	230	43.	
117-84-0	Di-n-octylphthalate	ND	230	77.	U

Form 1
SemiVolatile Organics

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-05	Date Collected	: 11/30/18 10:10
Client ID	: CB-01	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/07/18 01:51
Sample Matrix	: SOIL	Date Extracted	: 12/03/18
Analytical Method	: 1,8270D	Dilution Factor	: 1
Lab File ID	: 49060-05	Analyst	: RC
Sample Amount	: 30.07 g	Instrument ID	: SV112
Extraction Method	: EPA 3546	GC Column	: RTX5-MS
Extract Volume	: 1000 uL	%Solids	: 73
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
84-66-2	Diethyl phthalate	ND	230	21.	U
131-11-3	Dimethyl phthalate	ND	230	48.	U
56-55-3	Benzo(a)anthracene	240	140	26.	
50-32-8	Benzo(a)pyrene	280	180	56.	
205-99-2	Benzo(b)fluoranthene	520	140	38.	
207-08-9	Benzo(k)fluoranthene	140	140	36.	
218-01-9	Chrysene	290	140	24.	
208-96-8	Acenaphthylene	120	180	35.	J
120-12-7	Anthracene	140	140	44.	
191-24-2	Benzo(ghi)perylene	470	180	27.	
86-73-7	Fluorene	39	230	22.	J
85-01-8	Phenanthrene	280	140	28.	
53-70-3	Dibenzo(a,h)anthracene	77	140	26.	J
193-39-5	Indeno(1,2,3-cd)pyrene	360	180	32.	
129-00-0	Pyrene	390	140	23.	
92-52-4	Biphenyl	ND	520	53.	U
106-47-8	4-Chloroaniline	ND	230	41.	U
88-74-4	2-Nitroaniline	ND	230	44.	U
99-09-2	3-Nitroaniline	ND	230	43.	U
100-01-6	4-Nitroaniline	ND	230	94.	U
132-64-9	Dibenzofuran	44	230	22.	J
91-57-6	2-Methylnaphthalene	140	270	28.	J
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	230	24.	U
98-86-2	Acetophenone	130	230	28.	J

Form 1
SemiVolatile Organics

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-05	Date Collected	: 11/30/18 10:10
Client ID	: CB-01	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/07/18 01:51
Sample Matrix	: SOIL	Date Extracted	: 12/03/18
Analytical Method	: 1,8270D	Dilution Factor	: 1
Lab File ID	: 49060-05	Analyst	: RC
Sample Amount	: 30.07 g	Instrument ID	: SV112
Extraction Method	: EPA 3546	GC Column	: RTX5-MS
Extract Volume	: 1000 uL	%Solids	: 73
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
88-06-2	2,4,6-Trichlorophenol	ND	140	43.	U
59-50-7	p-Chloro-m-cresol	ND	230	34.	U
95-57-8	2-Chlorophenol	ND	230	27.	U
120-83-2	2,4-Dichlorophenol	ND	200	37.	U
105-67-9	2,4-Dimethylphenol	ND	230	75.	U
88-75-5	2-Nitrophenol	ND	490	86.	U
100-02-7	4-Nitrophenol	ND	320	93.	U
51-28-5	2,4-Dinitrophenol	ND	1100	110	U
534-52-1	4,6-Dinitro-o-cresol	ND	590	110	U
87-86-5	Pentachlorophenol	ND	180	50.	U
108-95-2	Phenol	71	230	34.	J
95-48-7	2-Methylphenol	ND	230	35.	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	62	330	36.	J
95-95-4	2,4,5-Trichlorophenol	ND	230	44.	U
86-74-8	Carbazole	56	230	22.	J
1912-24-9	Atrazine	ND	180	80.	U
100-52-7	Benzaldehyde	200	300	62.	J
105-60-2	Caprolactam	ND	230	69.	U
58-90-2	2,3,4,6-Tetrachlorophenol	ND	230	46.	U

Form 1
SemiVolatile Organics

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-06D	Date Collected	: 11/30/18 12:00
Client ID	: DUP-18	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/09/18 23:28
Sample Matrix	: SOIL	Date Extracted	: 12/03/18
Analytical Method	: 1,8270D	Dilution Factor	: 5
Lab File ID	: 49060-06	Analyst	: RC
Sample Amount	: 30.39 g	Instrument ID	: SV103
Extraction Method	: EPA 3546	GC Column	: RTX5-MS
Extract Volume	: 1000 uL	%Solids	: 49
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
83-32-9	Acenaphthene	ND	1300	170	U
118-74-1	Hexachlorobenzene	ND	1000	190	U
111-44-4	Bis(2-chloroethyl)ether	ND	1500	230	U
91-58-7	2-Chloronaphthalene	ND	1700	170	U
91-94-1	3,3'-Dichlorobenzidine	ND	1700	450	U
121-14-2	2,4-Dinitrotoluene	ND	1700	340	U
606-20-2	2,6-Dinitrotoluene	ND	1700	290	U
206-44-0	Fluoranthene	2100	1000	190	
7005-72-3	4-Chlorophenyl phenyl ether	ND	1700	180	U
101-55-3	4-Bromophenyl phenyl ether	ND	1700	260	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2000	290	U
111-91-1	Bis(2-chloroethoxy)methane	ND	1800	170	U
87-68-3	Hexachlorobutadiene	ND	1700	250	U
77-47-4	Hexachlorocyclopentadiene	ND	4800	1500	U
67-72-1	Hexachloroethane	ND	1300	270	U
78-59-1	Isophorone	ND	1500	220	U
91-20-3	Naphthalene	1000	1700	200	J
98-95-3	Nitrobenzene	ND	1500	250	U
86-30-6	NDPA/DPA	ND	1300	190	U
621-64-7	n-Nitrosodi-n-propylamine	ND	1700	260	U
117-81-7	Bis(2-ethylhexyl)phthalate	28000	1700	580	
85-68-7	Butyl benzyl phthalate	1300	1700	420	J
84-74-2	Di-n-butylphthalate	2300	1700	320	
117-84-0	Di-n-octylphthalate	ND	1700	570	U

Form 1
SemiVolatile Organics

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-06D	Date Collected	: 11/30/18 12:00
Client ID	: DUP-18	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/09/18 23:28
Sample Matrix	: SOIL	Date Extracted	: 12/03/18
Analytical Method	: 1,8270D	Dilution Factor	: 5
Lab File ID	: 49060-06	Analyst	: RC
Sample Amount	: 30.39 g	Instrument ID	: SV103
Extraction Method	: EPA 3546	GC Column	: RTX5-MS
Extract Volume	: 1000 uL	%Solids	: 49
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
84-66-2	Diethyl phthalate	ND	1700	160	U
131-11-3	Dimethyl phthalate	ND	1700	350	U
56-55-3	Benzo(a)anthracene	680	1000	190	J
50-32-8	Benzo(a)pyrene	670	1300	410	J
205-99-2	Benzo(b)fluoranthene	1600	1000	280	
207-08-9	Benzo(k)fluoranthene	600	1000	270	J
218-01-9	Chrysene	1300	1000	180	
208-96-8	Acenaphthylene	ND	1300	260	U
120-12-7	Anthracene	ND	1000	330	U
191-24-2	Benzo(ghi)perylene	680	1300	200	J
86-73-7	Fluorene	ND	1700	160	U
85-01-8	Phenanthrene	1100	1000	200	
53-70-3	Dibenzo(a,h)anthracene	ND	1000	190	U
193-39-5	Indeno(1,2,3-cd)pyrene	730	1300	230	J
129-00-0	Pyrene	1700	1000	170	
92-52-4	Biphenyl	ND	3800	390	U
106-47-8	4-Chloroaniline	ND	1700	310	U
88-74-4	2-Nitroaniline	ND	1700	320	U
99-09-2	3-Nitroaniline	ND	1700	320	U
100-01-6	4-Nitroaniline	ND	1700	700	U
132-64-9	Dibenzofuran	ND	1700	160	U
91-57-6	2-Methylnaphthalene	300	2000	200	J
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	1700	180	U
98-86-2	Acetophenone	ND	1700	210	U

Form 1
SemiVolatile Organics

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-06D	Date Collected	: 11/30/18 12:00
Client ID	: DUP-18	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/09/18 23:28
Sample Matrix	: SOIL	Date Extracted	: 12/03/18
Analytical Method	: 1,8270D	Dilution Factor	: 5
Lab File ID	: 49060-06	Analyst	: RC
Sample Amount	: 30.39 g	Instrument ID	: SV103
Extraction Method	: EPA 3546	GC Column	: RTX5-MS
Extract Volume	: 1000 uL	%Solids	: 49
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
88-06-2	2,4,6-Trichlorophenol	ND	1000	320	U
59-50-7	p-Chloro-m-cresol	ND	1700	250	U
95-57-8	2-Chlorophenol	ND	1700	200	U
120-83-2	2,4-Dichlorophenol	ND	1500	270	U
105-67-9	2,4-Dimethylphenol	ND	1700	560	U
88-75-5	2-Nitrophenol	ND	3600	630	U
100-02-7	4-Nitrophenol	ND	2400	690	U
51-28-5	2,4-Dinitrophenol	ND	8100	780	U
534-52-1	4,6-Dinitro-o-cresol	ND	4400	810	U
87-86-5	Pentachlorophenol	ND	1300	370	U
108-95-2	Phenol	700	1700	250	J
95-48-7	2-Methylphenol	ND	1700	260	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	6900	2400	260	
95-95-4	2,4,5-Trichlorophenol	ND	1700	320	U
86-74-8	Carbazole	200	1700	160	J
1912-24-9	Atrazine	ND	1300	590	U
100-52-7	Benzaldehyde	640	2200	460	J
105-60-2	Caprolactam	ND	1700	510	U
58-90-2	2,3,4,6-Tetrachlorophenol	ND	1700	340	U

Form 1
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Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: WG1184852-1	Date Collected	: NA
Client ID	: WG1184852-1BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 12/05/18 16:59
Sample Matrix	: SOIL	Date Extracted	: 12/03/18
Analytical Method	: 1,8270D	Dilution Factor	: 1
Lab File ID	: 184852-1	Analyst	: JG
Sample Amount	: 30.89 g	Instrument ID	: SV109
Extraction Method	: EPA 3546	GC Column	: RTX5-MS
Extract Volume	: 1000 uL	%Solids	: NA
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
83-32-9	Acenaphthene	ND	130	17.	U
118-74-1	Hexachlorobenzene	ND	97	18.	U
111-44-4	Bis(2-chloroethyl)ether	ND	140	22.	U
91-58-7	2-Chloronaphthalene	ND	160	16.	U
91-94-1	3,3'-Dichlorobenzidine	ND	160	43.	U
121-14-2	2,4-Dinitrotoluene	ND	160	32.	U
606-20-2	2,6-Dinitrotoluene	ND	160	28.	U
206-44-0	Fluoranthene	ND	97	18.	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	160	17.	U
101-55-3	4-Bromophenyl phenyl ether	ND	160	25.	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	190	28.	U
111-91-1	Bis(2-chloroethoxy)methane	ND	170	16.	U
87-68-3	Hexachlorobutadiene	ND	160	24.	U
77-47-4	Hexachlorocyclopentadiene	ND	460	150	U
67-72-1	Hexachloroethane	ND	130	26.	U
78-59-1	Isophorone	ND	140	21.	U
91-20-3	Naphthalene	ND	160	20.	U
98-95-3	Nitrobenzene	ND	140	24.	U
86-30-6	NDPA/DPA	ND	130	18.	U
621-64-7	n-Nitrosodi-n-propylamine	ND	160	25.	U
117-81-7	Bis(2-ethylhexyl)phthalate	ND	160	56.	U
85-68-7	Butyl benzyl phthalate	ND	160	41.	U
84-74-2	Di-n-butylphthalate	ND	160	31.	U
117-84-0	Di-n-octylphthalate	ND	160	55.	U

Form 1
SemiVolatile Organics

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: WG1184852-1	Date Collected	: NA
Client ID	: WG1184852-1BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 12/05/18 16:59
Sample Matrix	: SOIL	Date Extracted	: 12/03/18
Analytical Method	: 1,8270D	Dilution Factor	: 1
Lab File ID	: 184852-1	Analyst	: JG
Sample Amount	: 30.89 g	Instrument ID	: SV109
Extraction Method	: EPA 3546	GC Column	: RTX5-MS
Extract Volume	: 1000 uL	%Solids	: NA
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
84-66-2	Diethyl phthalate	ND	160	15.	U
131-11-3	Dimethyl phthalate	ND	160	34.	U
56-55-3	Benzo(a)anthracene	ND	97	18.	U
50-32-8	Benzo(a)pyrene	ND	130	39.	U
205-99-2	Benzo(b)fluoranthene	ND	97	27.	U
207-08-9	Benzo(k)fluoranthene	ND	97	26.	U
218-01-9	Chrysene	ND	97	17.	U
208-96-8	Acenaphthylene	ND	130	25.	U
120-12-7	Anthracene	ND	97	32.	U
191-24-2	Benzo(ghi)perylene	ND	130	19.	U
86-73-7	Fluorene	ND	160	16.	U
85-01-8	Phenanthrene	ND	97	20.	U
53-70-3	Dibenzo(a,h)anthracene	ND	97	19.	U
193-39-5	Indeno(1,2,3-cd)pyrene	ND	130	22.	U
129-00-0	Pyrene	ND	97	16.	U
92-52-4	Biphenyl	ND	370	38.	U
106-47-8	4-Chloroaniline	ND	160	29.	U
88-74-4	2-Nitroaniline	ND	160	31.	U
99-09-2	3-Nitroaniline	ND	160	30.	U
100-01-6	4-Nitroaniline	ND	160	67.	U
132-64-9	Dibenzofuran	ND	160	15.	U
91-57-6	2-Methylnaphthalene	ND	190	20.	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	160	17.	U
98-86-2	Acetophenone	ND	160	20.	U

Form 1
SemiVolatile Organics

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: WG1184852-1	Date Collected	: NA
Client ID	: WG1184852-1BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 12/05/18 16:59
Sample Matrix	: SOIL	Date Extracted	: 12/03/18
Analytical Method	: 1,8270D	Dilution Factor	: 1
Lab File ID	: 184852-1	Analyst	: JG
Sample Amount	: 30.89 g	Instrument ID	: SV109
Extraction Method	: EPA 3546	GC Column	: RTX5-MS
Extract Volume	: 1000 uL	%Solids	: NA
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
88-06-2	2,4,6-Trichlorophenol	ND	97	31.	U
59-50-7	p-Chloro-m-cresol	ND	160	24.	U
95-57-8	2-Chlorophenol	ND	160	19.	U
120-83-2	2,4-Dichlorophenol	ND	140	26.	U
105-67-9	2,4-Dimethylphenol	ND	160	53.	U
88-75-5	2-Nitrophenol	ND	350	61.	U
100-02-7	4-Nitrophenol	ND	230	66.	U
51-28-5	2,4-Dinitrophenol	ND	780	75.	U
534-52-1	4,6-Dinitro-o-cresol	ND	420	78.	U
87-86-5	Pentachlorophenol	ND	130	36.	U
108-95-2	Phenol	ND	160	24.	U
95-48-7	2-Methylphenol	ND	160	25.	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	230	25.	U
95-95-4	2,4,5-Trichlorophenol	ND	160	31.	U
86-74-8	Carbazole	ND	160	16.	U
1912-24-9	Atrazine	ND	130	57.	U
100-52-7	Benzaldehyde	ND	210	44.	U
105-60-2	Caprolactam	ND	160	49.	U
58-90-2	2,3,4,6-Tetrachlorophenol	ND	160	33.	U

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181206\
Data File : 49060-02.D
Acq On : 07 Dec 2018 12:35 am
Operator : sv112:rc
Sample : l1849060-02,32,,ny,ask
Misc : wg1186484,wg1184852,ical15308
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 09 08:12:23 2018
Quant Method : I:\8270\SV112\181206\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 07 07:20:08 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\181206\ABN1206.D
: 2 - I:\8270\SV112\181206\ADP1206.D
: 3 - I:\8270\SV112\181206\AP91206.D
Sub List : 8270TCL_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.786	152	208994	40.000	ug/ml	0.00
Standard Area 1 = 160010			Recovery = 130.61%			
27) IS2_1,4-Dichlorobenzen...	4.786	152	208994	40.000	ug/ml	0.00
Standard Area 3 = 165516			Recovery = 126.27%			
34) IS1_Naphthalene-d8	6.030	136	885211	40.000	ug/ml	0.00
Standard Area 1 = 659812			Recovery = 134.16%			
54) IS2_Naphthalene-d8	6.030	136	885211	40.000	ug/ml	0.00
Standard Area 3 = 688464			Recovery = 128.58%			
62) IS1_Acenaphthene-d10	7.748	164	431670	40.000	ug/ml	0.00
Standard Area 1 = 337355			Recovery = 127.96%			
82) IS2_Acenaphthene-d10	7.748	164	431670	40.000	ug/ml	0.00
Standard Area 3 = 340011			Recovery = 126.96%			
85) IS3_Acenaphthene-d10	7.748	164	431670	40.000	ug/ml	0.00
Standard Area 2 = 332171			Recovery = 129.95%			
87) IS1_Phenanthrene-d10	9.191	188	815917	40.000	ug/ml	0.00
Standard Area 1 = 577618			Recovery = 141.26%			
99) IS3_Phenanthrene-d10	9.191	188	815917	40.000	ug/ml	0.00
Standard Area 2 = 608062			Recovery = 134.18%			
103) IS1_Chrysene-d12	11.867	240	669772	40.000	ug/ml	0.00
Standard Area 1 = 540685			Recovery = 123.87%			
112) IS1_Perylene-d12	13.362	264	681490	40.000	ug/ml	0.02
Standard Area 1 = 528741			Recovery = 128.89%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.509	112	190109	25.876	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 51.75%			
7) Phenol-d6	4.463	99	234100	26.255	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 52.51%			
19) Nitrobenzene-d5	5.327	82	90033	11.587	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 46.35%			
45) 2-Fluorobiphenyl	7.105	172	227456	14.056	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 56.22%			
78) 2,4,6-Tribromophenol	8.516	330	63487	36.179	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 72.36%			
95) 4-Terphenyl-d14	10.788	244	193835	11.088	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 44.35%			

Data Path : I:\8270\SV112\181206\
Data File : 49060-02.D
Acq On : 07 Dec 2018 12:35 am
Operator : sv112:rc
Sample : l1849060-02,32,,ny,ask
Misc : wg1186484,wg1184852,ical15308
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 09 08:12:23 2018
Quant Method : I:\8270\SV112\181206\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 07 07:20:08 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\181206\ABN1206.D
: 2 - I:\8270\SV112\181206\ADP1206.D
: 3 - I:\8270\SV112\181206\AP91206.D
Sub List : 8270TCL_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	4.476	94	33423	3.220	ug/ml#	67
9) Bis(2-chloroethyl)ether	0.000		0	N.D.	d	
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.	d	
15) 2-Methylphenol	0.000		0	N.D.	d	
16) Hexachloroethane	0.000		0	N.D.	d	
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	5.225	108	12980	1.776	ug/ml	100
20) Nitrobenzene	0.000		0	N.D.	d	
21) Isophorone	0.000		0	N.D.	d	
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	5.741	107	3998M6	0.545	ug/ml	
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.	d	
25) 2,4-Dichlorophenol	0.000		0	N.D.	d	
28) Benzaldehyde	0.000		0	N.D.	d	
29) Acetophenone	5.187	105	49271	4.763	ug/ml#	87
35) Naphthalene	6.051	128	147532	6.161	ug/ml	99
37) 4-Chloroaniline	0.000		0	N.D.	d	
38) Hexachlorobutadiene	0.000		0	N.D.		
39) p-Chloro-m-cresol	0.000		0	N.D.	d	
40) 2-Methylnaphthalene	6.735	142	105216	6.763	ug/ml	100
42) Hexachlorocyclopentadiene	0.000		0	N.D.		
43) 2,4,6-Trichlorophenol	0.000		0	N.D.		
44) 2,4,5-Trichlorophenol	0.000		0	N.D.		
46) 2-Chloronaphthalene	0.000		0	N.D.	d	
47) 2-Nitroaniline	0.000		0	N.D.		
50) Dimethyl phthalate	7.512	163	124768	7.819	ug/ml	96
51) Acenaphthylene	7.606	152	114886	5.189	ug/ml	96
52) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
59) Caprolactam	6.437	55	16801	5.823	ug/ml	98
60) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.	d	
61) Biphenyl	7.198	154	22540	1.322	ug/ml	99
63) 3-Nitroaniline	0.000		0	N.D.	d	
64) Acenaphthene	7.776	154	35629	2.807	ug/ml	98
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	7.947	168	44115	2.282	ug/ml	99

Data Path : I:\8270\SV112\181206\
Data File : 49060-02.D
Acq On : 07 Dec 2018 12:35 am
Operator : sv112:rc
Sample : l1849060-02,32,,ny,ask
Misc : wg1186484,wg1184852,ical15308
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 09 08:12:23 2018
Quant Method : I:\8270\SV112\181206\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 07 07:20:08 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\181206\ABN1206.D
: 2 - I:\8270\SV112\181206\ADP1206.D
: 3 - I:\8270\SV112\181206\AP91206.D
Sub List : 8270TCL_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
67) 2,4-Dinitrotoluene	0.000		0	N.D.	d	
68) 4-Nitrophenol	0.000		0	N.D.	d	
70) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
71) Diethyl phthalate	0.000		0	N.D.	d	
72) Fluorene	8.283	166	52630	3.561	ug/ml#	96
73) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
74) 4-Nitroaniline	0.000		0	N.D.	d	
75) 4,6-Dinitro-o-cresol	0.000		0	N.D.	d	
76) NDPA/DPA	8.417	169	9810	0.768	ug/ml	97
79) 4-Bromophenyl phenyl e...	0.000		0	N.D.		
80) Hexachlorobenzene	0.000		0	N.D.	d	
81) Pentachlorophenol	0.000		0	N.D.	d	
86) Atrazine	0.000		0	N.D.		
88) Phenanthrene	9.216	178	702550	28.813	ug/ml	99
89) Anthracene	9.262	178	256539	10.809	ug/ml#	95
90) Carbazole	9.433	167	106109	4.689	ug/ml	99
91) Di-n-butylphthalate	9.819	149	353005	13.498	ug/ml	99
92) Fluoranthene	10.381	202	1145618	47.168	ug/ml	99
94) Pyrene	10.602	202	1030314	40.109	ug/ml#	95
96) Butyl benzyl phthalate	11.320	149	241810	19.770	ug/ml	94
104) Benzo(a)anthracene	11.857	228	545573	25.436	ug/ml	95
105) 3,3'-Dichlorobenzidine	0.000		0	N.D.	d	
106) Chrysene	11.895	228	552942	26.669	ug/ml	97
107) Bis(2-ethylhexyl)phtha...	11.979	149	7278620	404.989	ug/ml#	94
108) Di-n-octylphthalate	12.662	149	223996	9.669	ug/ml#	86
109) Benzo(b)fluoranthene	12.986	252	805491	42.219	ug/ml	97
110) Benzo(k)fluoranthene	13.011	252	277318M3	14.079	ug/ml	
111) Benzo(a)pyrene	13.303	252	557053	29.972	ug/ml#	96
113) Indeno(1,2,3-cd)pyrene	14.391	276	504087	27.436	ug/mL	96
114) Dibenzo(a,h)anthracene	14.409	278	108923	5.864	ug/ml	96
115) Benzo(ghi)perylene	14.667	276	537938	28.945	ug/ml#	88

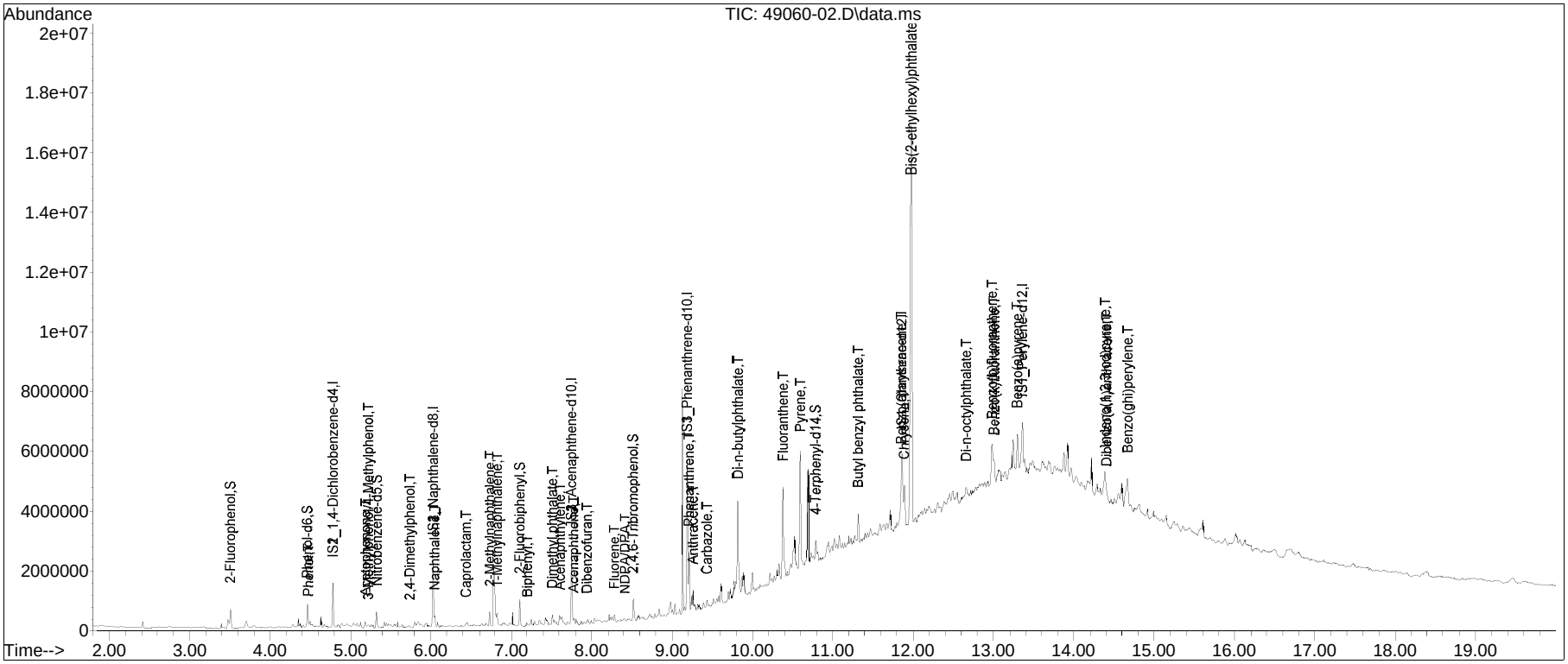
(#) = qualifier out of range (m) = manual integration (+) = signals summed

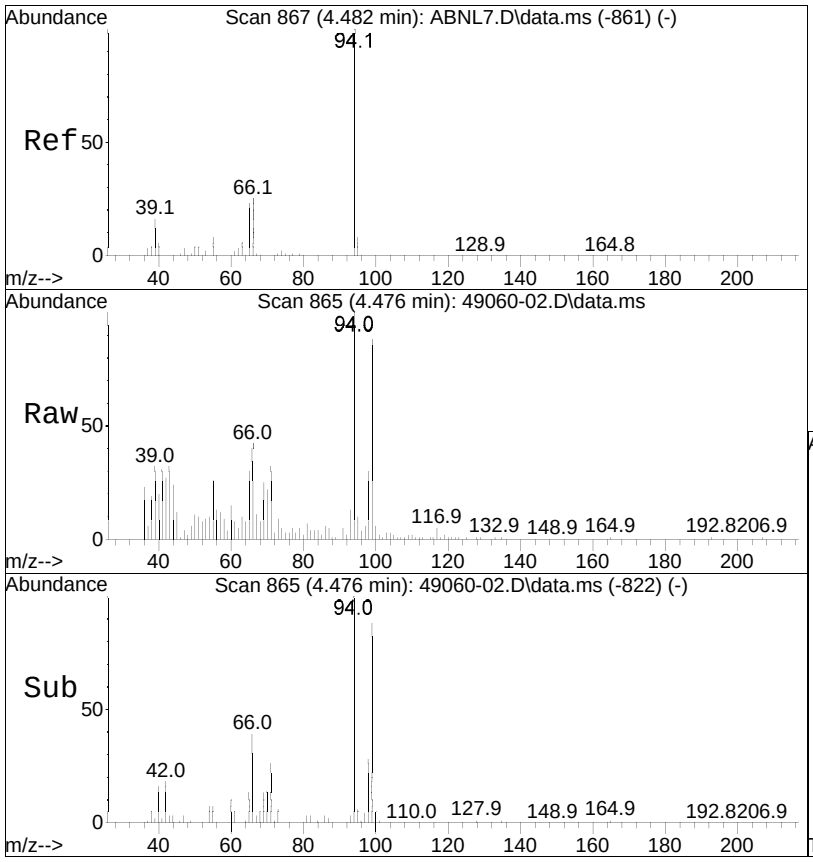
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181206\
Data File : 49060-02.D
Acq On : 07 Dec 2018 12:35 am
Operator : sv112:rc
Sample : l1849060-02,32,,ny,ask
Misc : wg1186484,wg1184852,ical15308
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 09 08:12:23 2018
Quant Method : I:\8270\SV112\181206\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 07 07:20:08 2018
Response via : Initial Calibration

Sub List : 8270TCL_REV1 - TCL/CT/MA\AP91206.D•

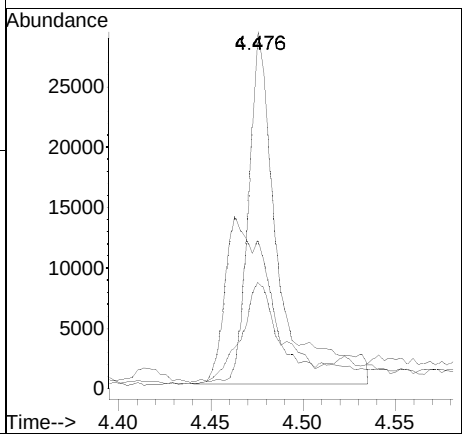


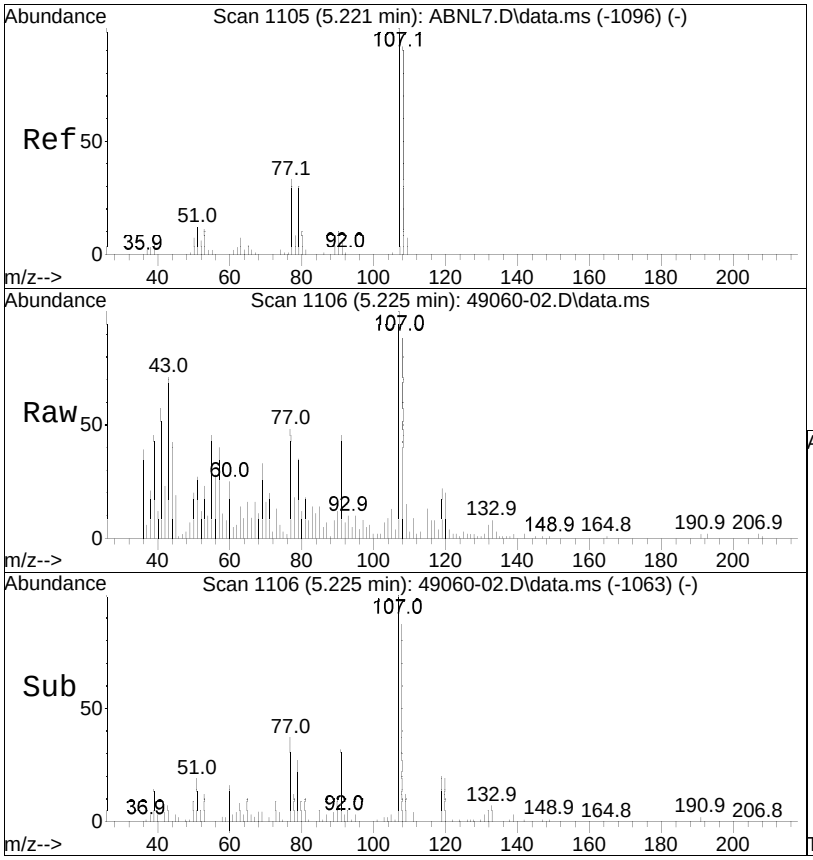


#8
Phenol
Concen: 3.22 ug/ml
RT: 4.476 min Scan# 865
Delta R.T. 0.010 min
Lab File: 49060-02.D
Acq: 07 Dec 2018 12:35 am

Tgt Ion: 94 Resp: 33423

Ion	Ratio	Lower	Upper
94	100		
65	37.0	23.0	34.6#
66	68.2	32.1	48.1#

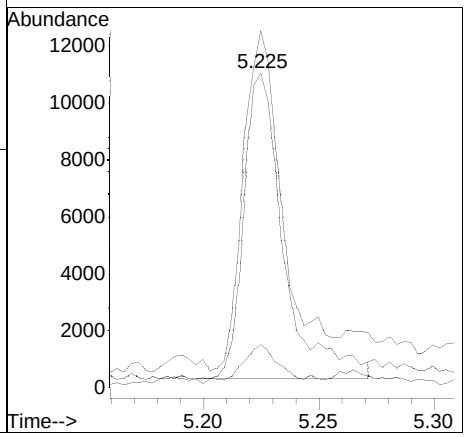


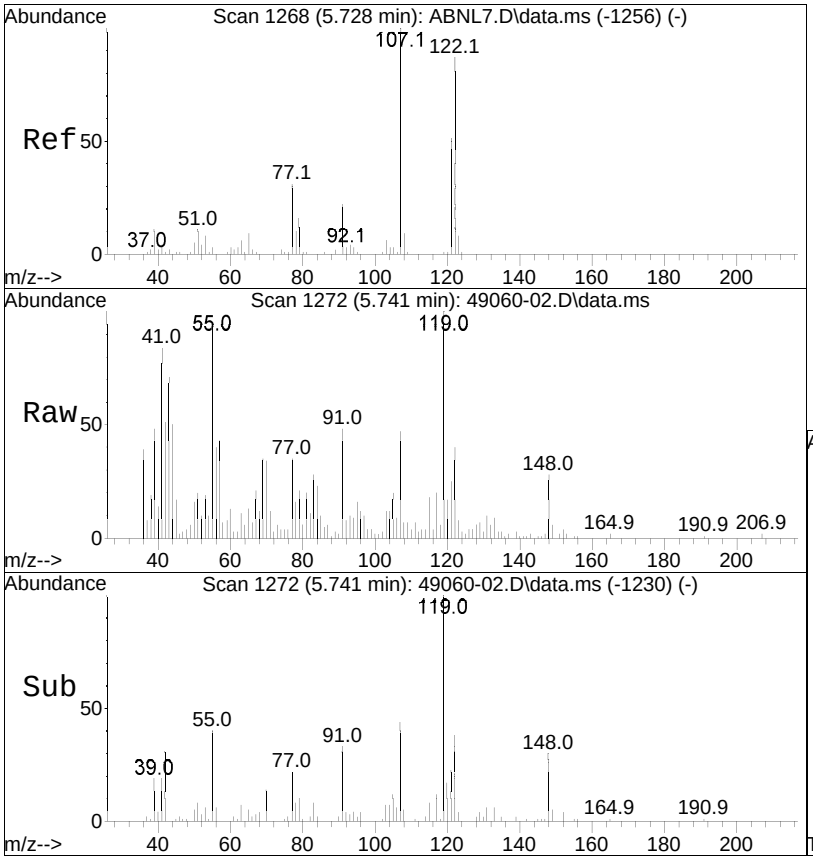


#18
3-Methylphenol/4-Methylphenol
Concen: 1.78 ug/ml
RT: 5.225 min Scan# 1106
Delta R.T. 0.010 min
Lab File: 49060-02.D
Acq: 07 Dec 2018 12:35 am

Tgt Ion:108 Resp: 12980

Ion	Ratio	Lower	Upper
108	100		
107	110.7	88.8	133.2
90	11.7	9.0	13.6

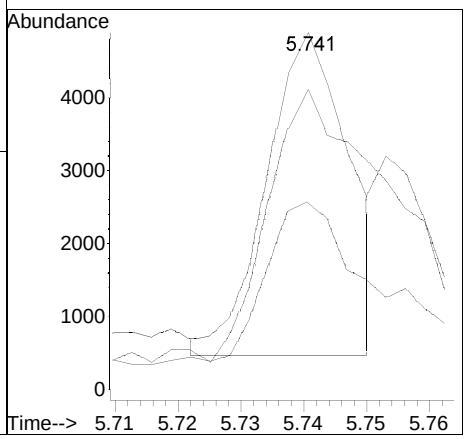


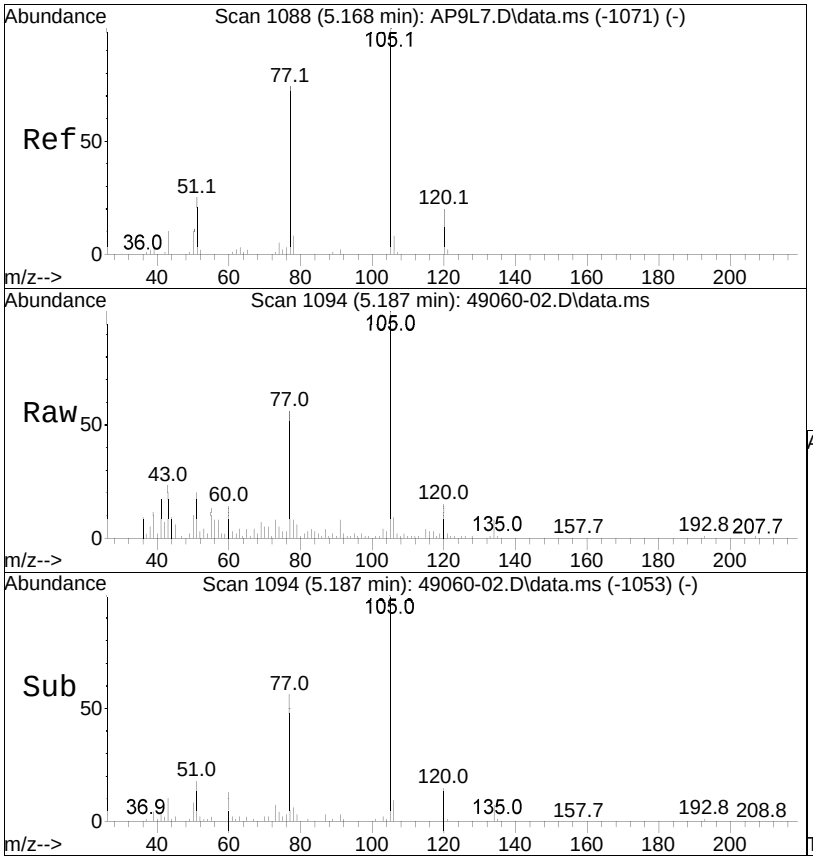


#23
2,4-Dimethylphenol
Concen: 0.54 ug/ml M6
RT: 5.741 min Scan# 1272
Delta R.T. 0.007 min
Lab File: 49060-02.D
Acq: 07 Dec 2018 12:35 am

Tgt Ion:107 Resp: 3998

Ion	Ratio	Lower	Upper
107	100		
121	72.6	41.3	61.9#
122	142.1	69.3	103.9#

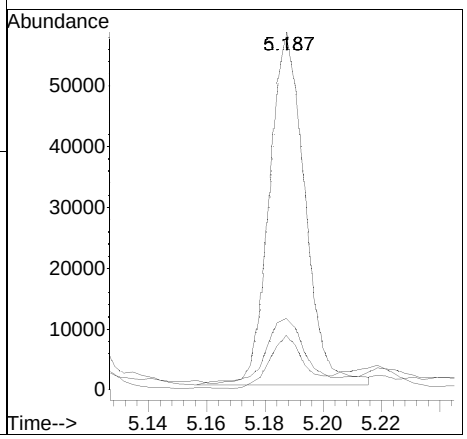


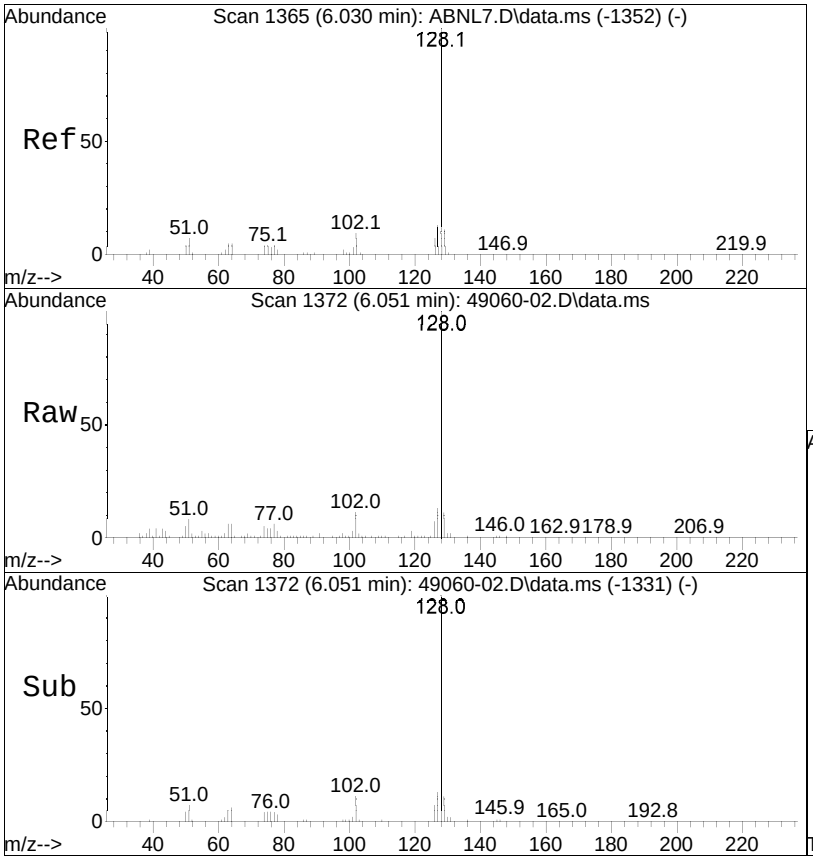


#29
Acetophenone
Concen: 4.76 ug/ml
RT: 5.187 min Scan# 1094
Delta R.T. 0.003 min
Lab File: 49060-02.D
Acq: 07 Dec 2018 12:35 am

Tgt Ion:105 Resp: 49271

Ion	Ratio	Lower	Upper
105	100		
120	15.5	15.2	22.8
51	19.9	23.1	34.7#

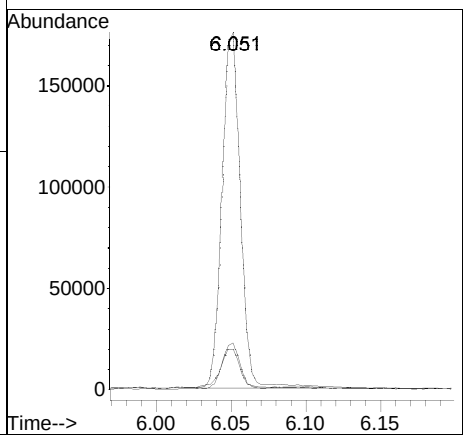


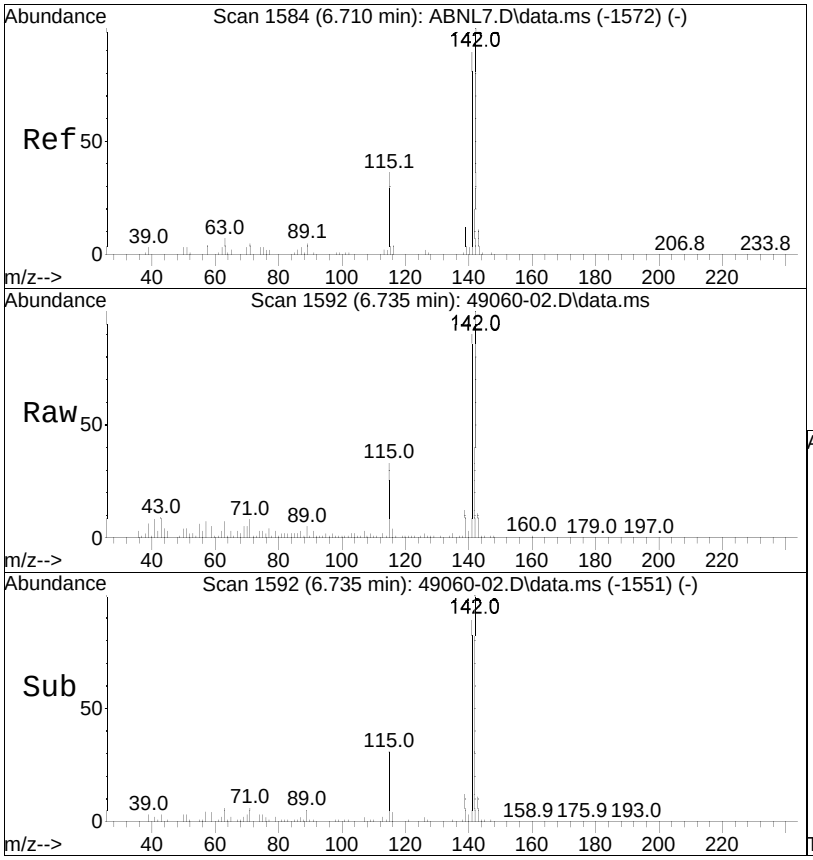


#35
Naphthalene
Concen: 6.16 ug/ml
RT: 6.051 min Scan# 1372
Delta R.T. 0.003 min
Lab File: 49060-02.D
Acq: 07 Dec 2018 12:35 am

Tgt Ion:128 Resp: 147532

Ion	Ratio	Lower	Upper
128	100		
129	11.5	8.9	13.3
127	13.0	10.6	15.8

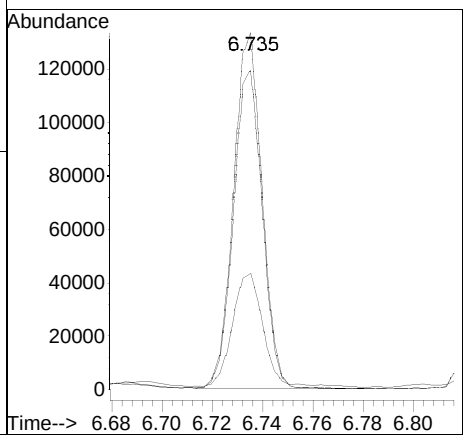


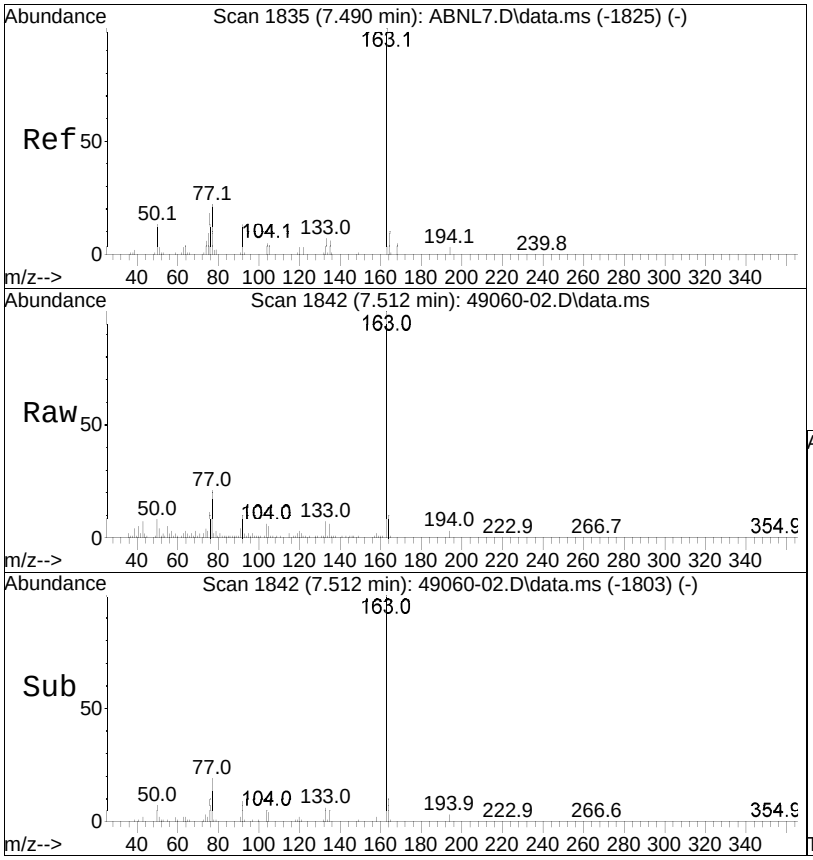


#40
2-Methylnaphthalene
Concen: 6.76 ug/ml
RT: 6.735 min Scan# 1592
Delta R.T. 0.003 min
Lab File: 49060-02.D
Acq: 07 Dec 2018 12:35 am

Tgt Ion:142 Resp: 105216

Ion	Ratio	Lower	Upper
142	100		
141	90.4	72.2	108.4
115	33.9	27.8	41.6

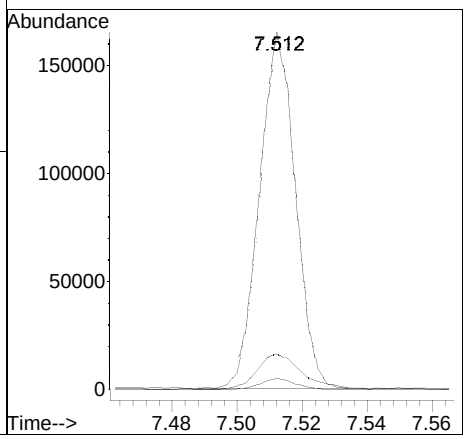


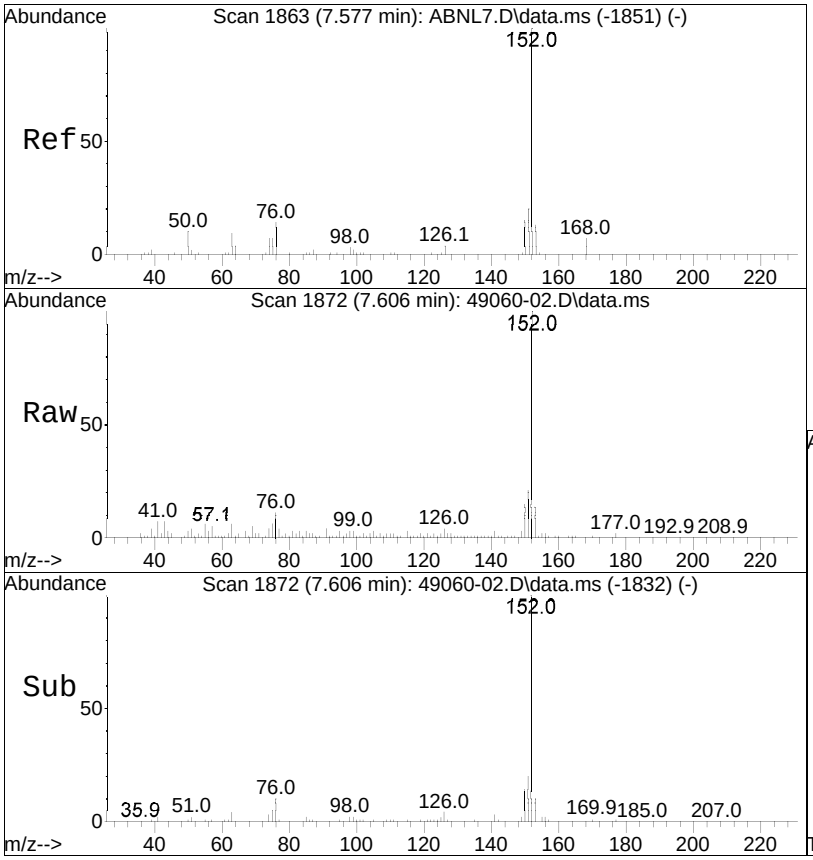


#50
Dimethyl phthalate
Concen: 7.82 ug/ml
RT: 7.512 min Scan# 1842
Delta R.T. -0.003 min
Lab File: 49060-02.D
Acq: 07 Dec 2018 12:35 am

Tgt Ion:163 Resp: 124768

Ion	Ratio	Lower	Upper
163	100		
194	3.1	2.3	3.5
164	12.1	8.2	12.2

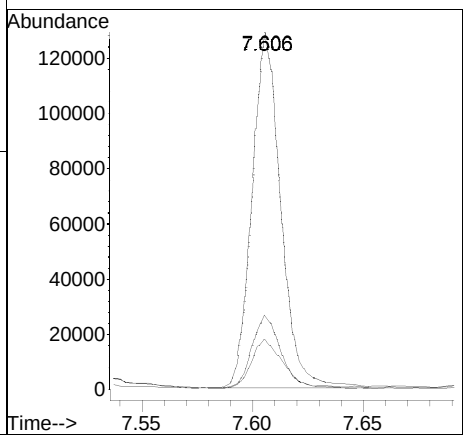


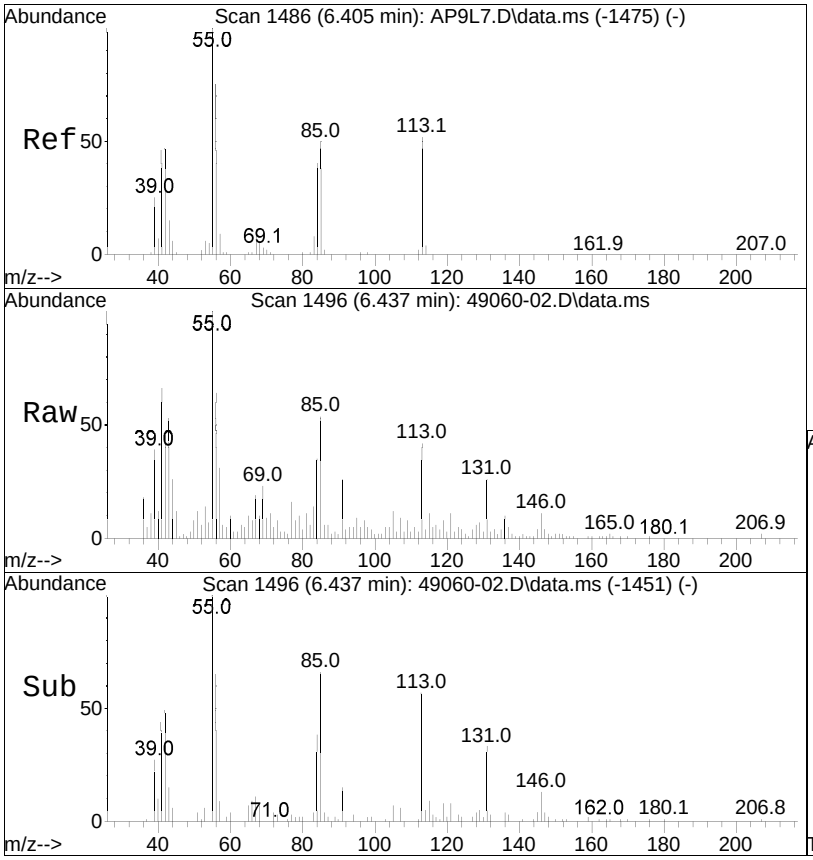


#51
Acenaphthylene
Concen: 5.19 ug/ml
RT: 7.606 min Scan# 1872
Delta R.T. 0.000 min
Lab File: 49060-02.D
Acq: 07 Dec 2018 12:35 am

Tgt Ion:152 Resp: 114886

Ion	Ratio	Lower	Upper
152	100		
151	21.0	15.9	23.9
153	15.5	10.5	15.7

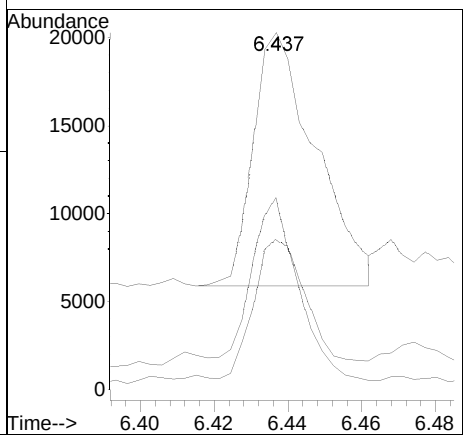


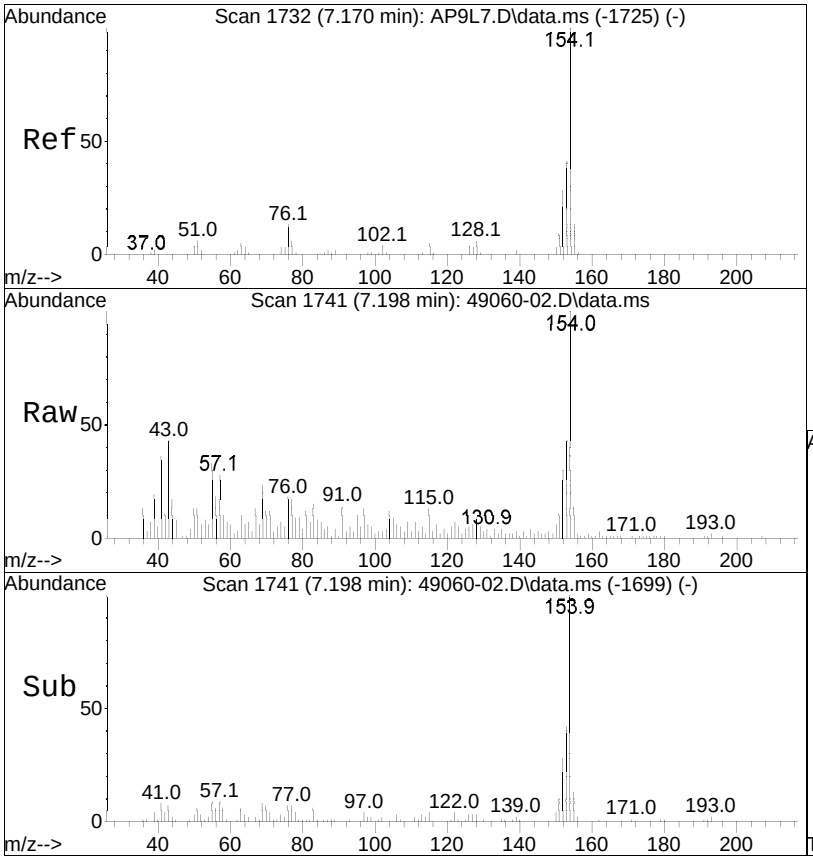


#59
Caprolactam
Concen: 5.82 ug/ml
RT: 6.437 min Scan# 1496
Delta R.T. 0.016 min
Lab File: 49060-02.D
Acq: 07 Dec 2018 12:35 am

Tgt Ion: 55 Resp: 16801

Ion	Ratio	Lower	Upper
55	100		
85	46.9	35.2	52.8
113	45.6	36.6	55.0

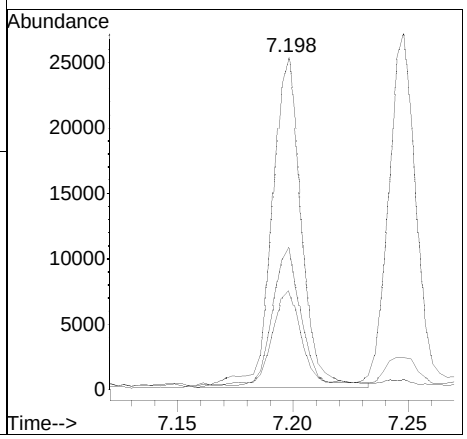


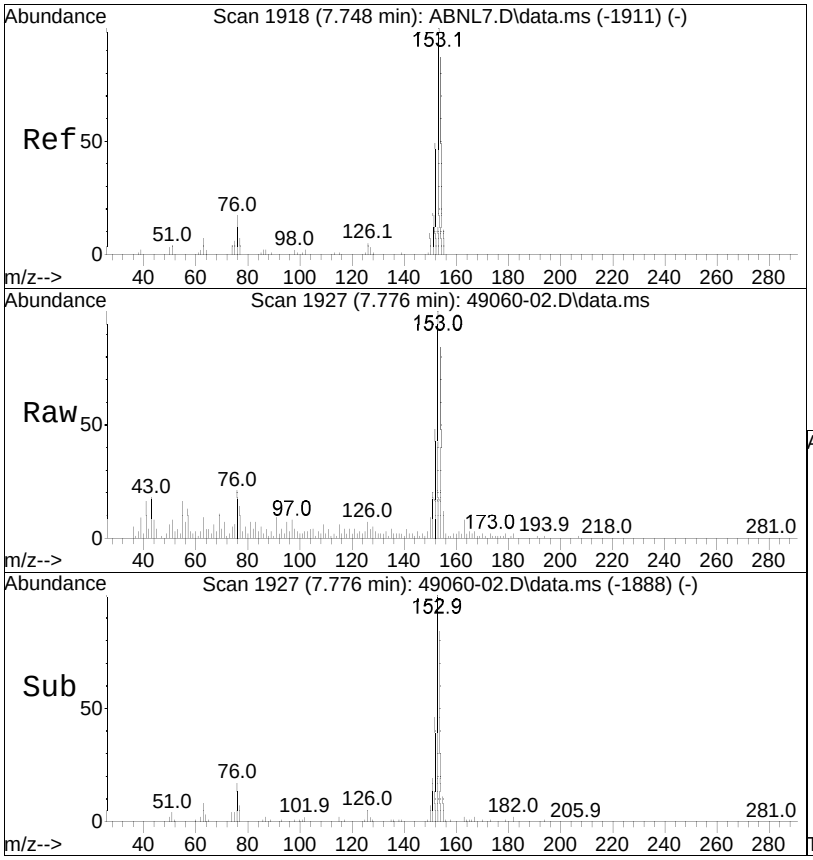


#61
Biphenyl
Concen: 1.32 ug/ml
RT: 7.198 min Scan# 1741
Delta R.T. 0.007 min
Lab File: 49060-02.D
Acq: 07 Dec 2018 12:35 am

Tgt Ion:154 Resp: 22540

Ion	Ratio	Lower	Upper
154	100		
153	39.9	32.5	48.7
152	29.1	22.6	34.0

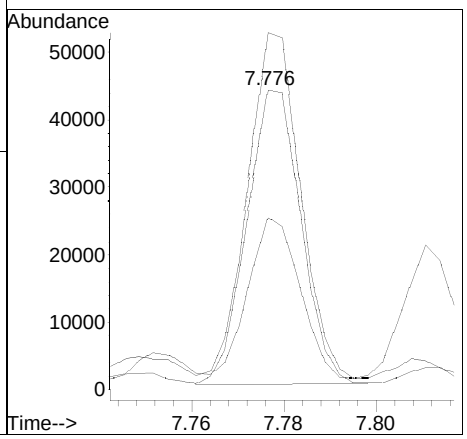


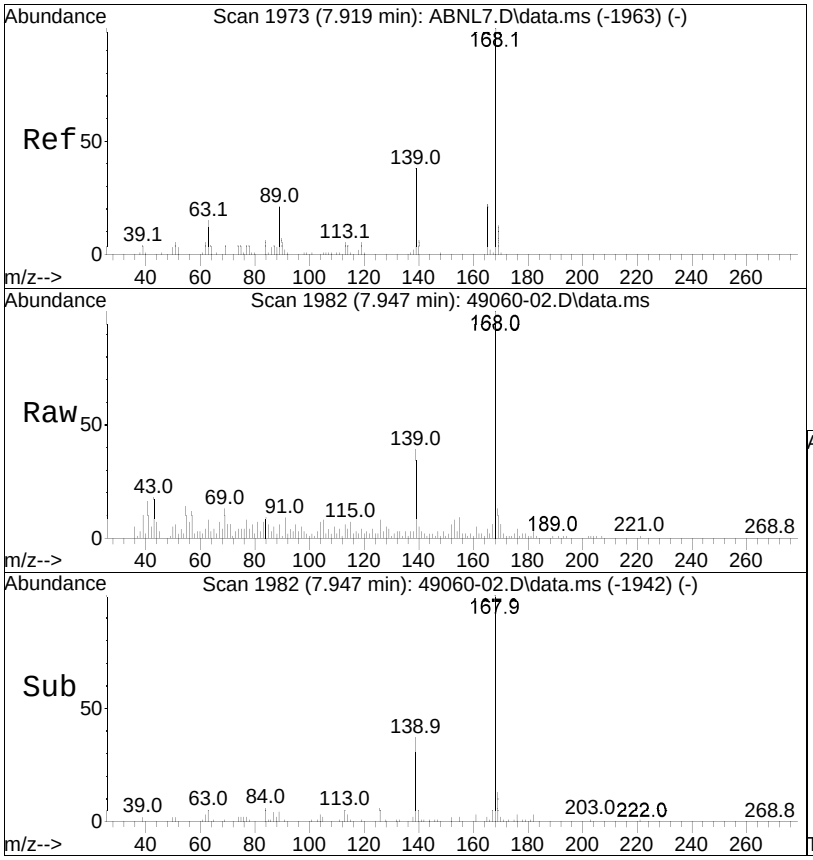


#64
Acenaphthene
Concen: 2.81 ug/ml
RT: 7.776 min Scan# 1927
Delta R.T. -0.003 min
Lab File: 49060-02.D
Acq: 07 Dec 2018 12:35 am

Tgt Ion:154 Resp: 35629

Ion	Ratio	Lower	Upper
154	100		
153	118.6	93.0	139.4
152	55.6	43.3	64.9

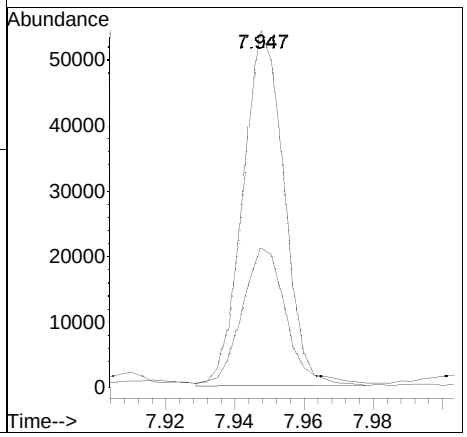


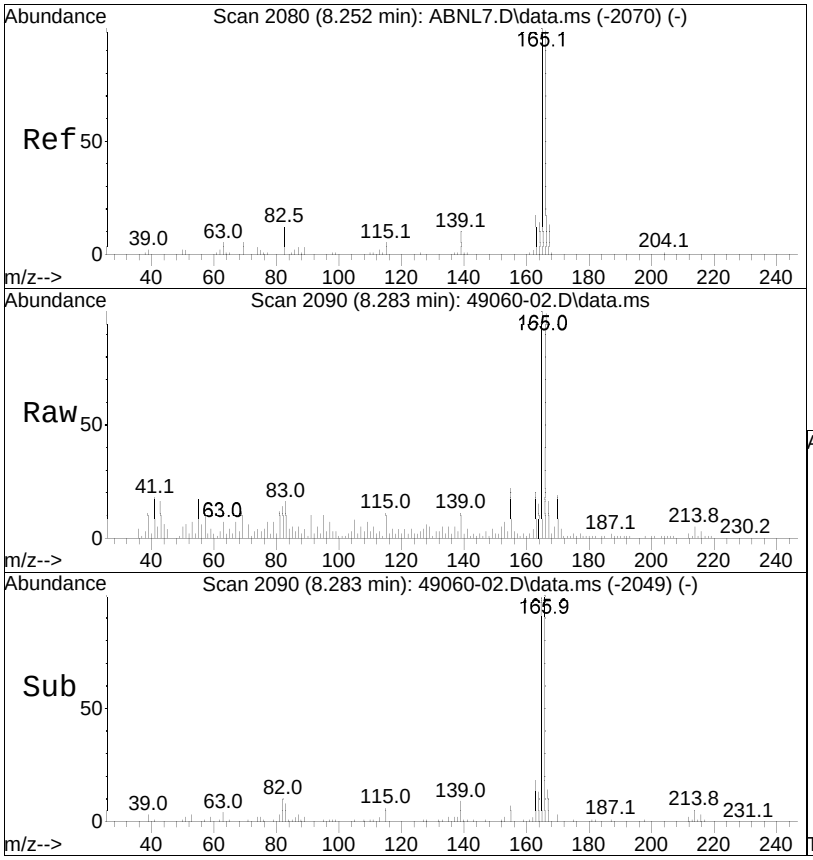


#66
Dibenzofuran
Concen: 2.28 ug/ml
RT: 7.947 min Scan# 1982
Delta R.T. 0.000 min
Lab File: 49060-02.D
Acq: 07 Dec 2018 12:35 am

Tgt Ion:168 Resp: 44115

Ion	Ratio	Lower	Upper
168	100		
139	40.0	32.3	48.5

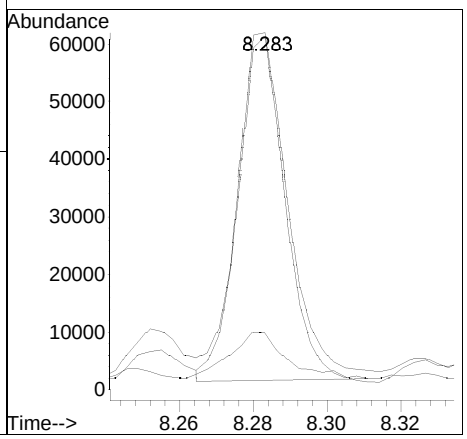


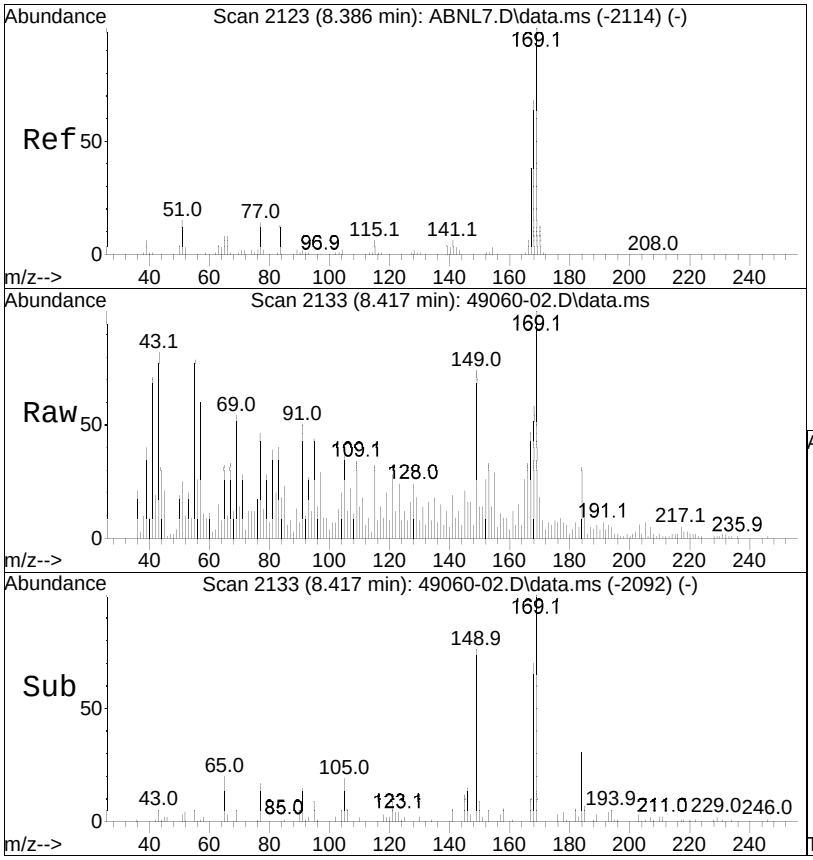


#72
Fluorene
Concen: 3.56 ug/ml
RT: 8.283 min Scan# 2090
Delta R.T. 0.003 min
Lab File: 49060-02.D
Acq: 07 Dec 2018 12:35 am

Tgt Ion:166 Resp: 52630

Ion	Ratio	Lower	Upper
166	100		
165	102.6	80.0	120.0
167	19.7	10.7	16.1#

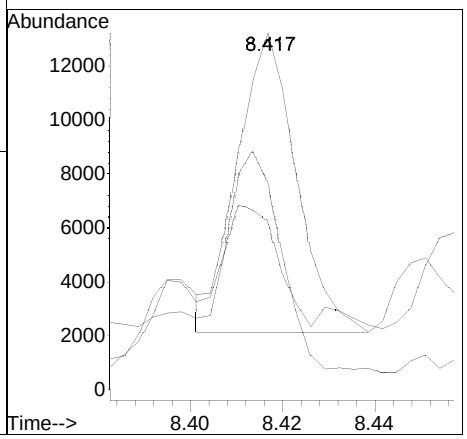


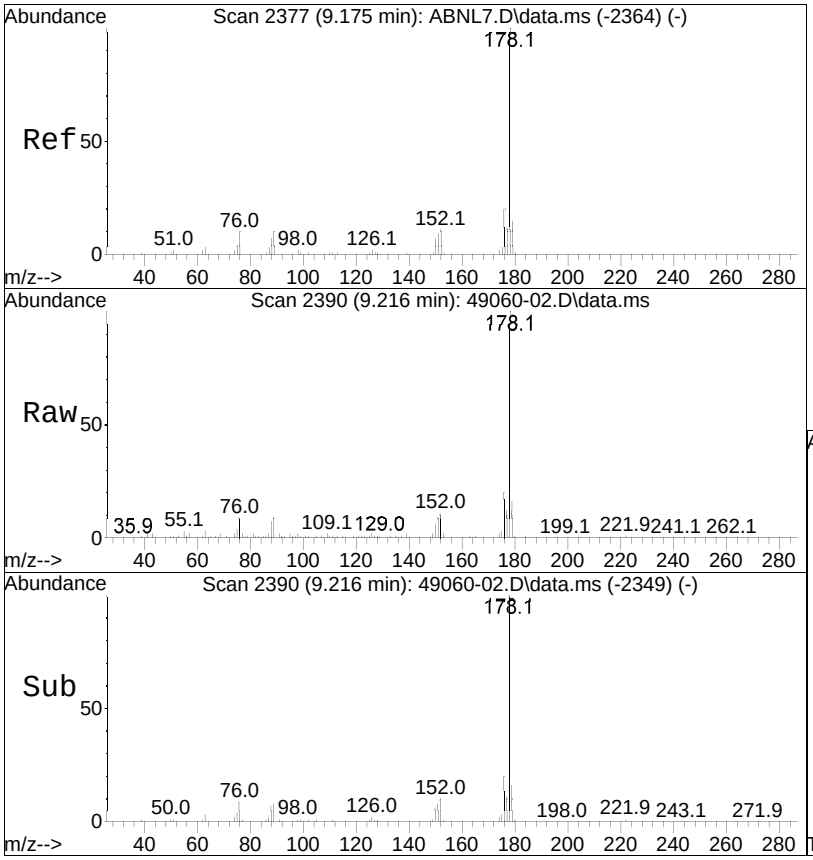


#76
NDPA/DPA
Concen: 0.77 ug/ml
RT: 8.417 min Scan# 2133
Delta R.T. 0.003 min
Lab File: 49060-02.D
Acq: 07 Dec 2018 12:35 am

Tgt Ion:169 Resp: 9810

Ion	Ratio	Lower	Upper
169	100		
168	72.1	55.2	82.8
167	37.3	30.4	45.6

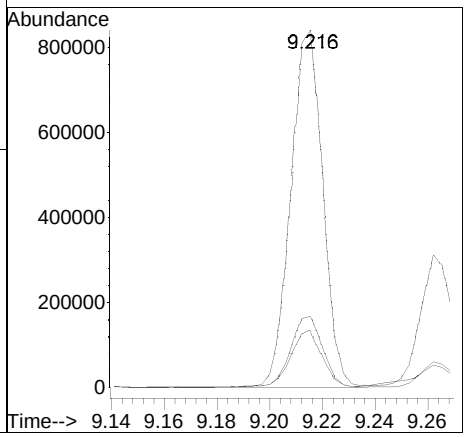


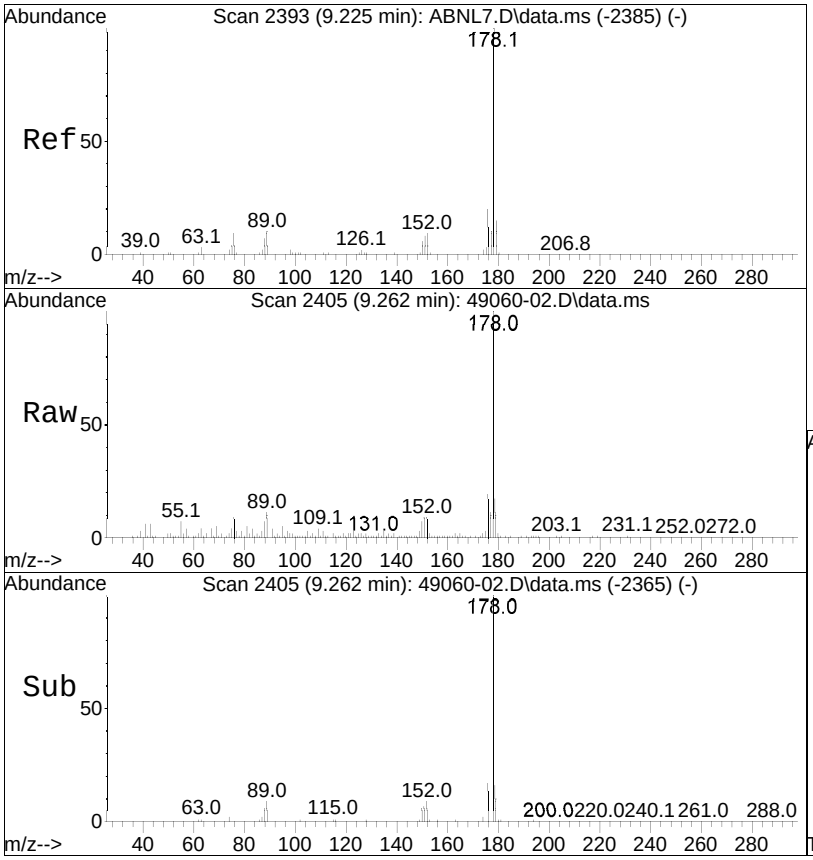


#88
Phenanthrene
Concen: 28.81 ug/ml
RT: 9.216 min Scan# 2390
Delta R.T. 0.003 min
Lab File: 49060-02.D
Acq: 07 Dec 2018 12:35 am

Tgt Ion:178 Resp: 702550

Ion	Ratio	Lower	Upper
178	100		
179	15.6	12.3	18.5
176	20.3	15.4	23.2

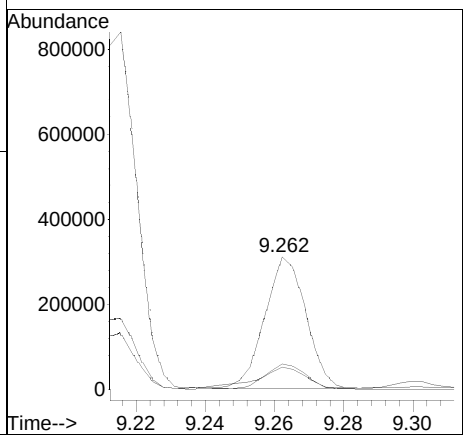


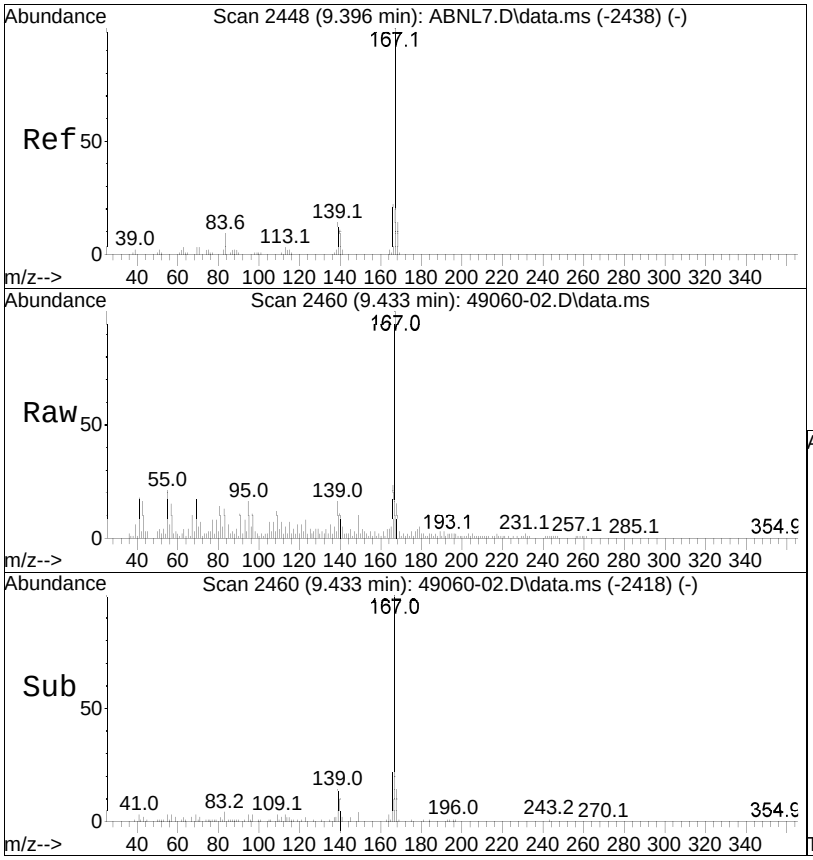


#89
Anthracene
Concen: 10.81 ug/ml
RT: 9.262 min Scan# 2405
Delta R.T. 0.000 min
Lab File: 49060-02.D
Acq: 07 Dec 2018 12:35 am

Tgt Ion:178 Resp: 256539

Ion	Ratio	Lower	Upper
178	100		
179	19.5	12.2	18.2#
176	19.2	15.1	22.7

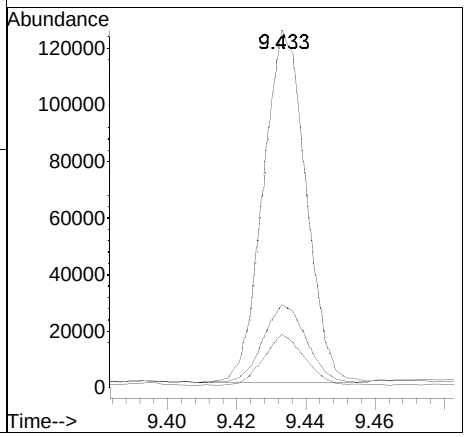


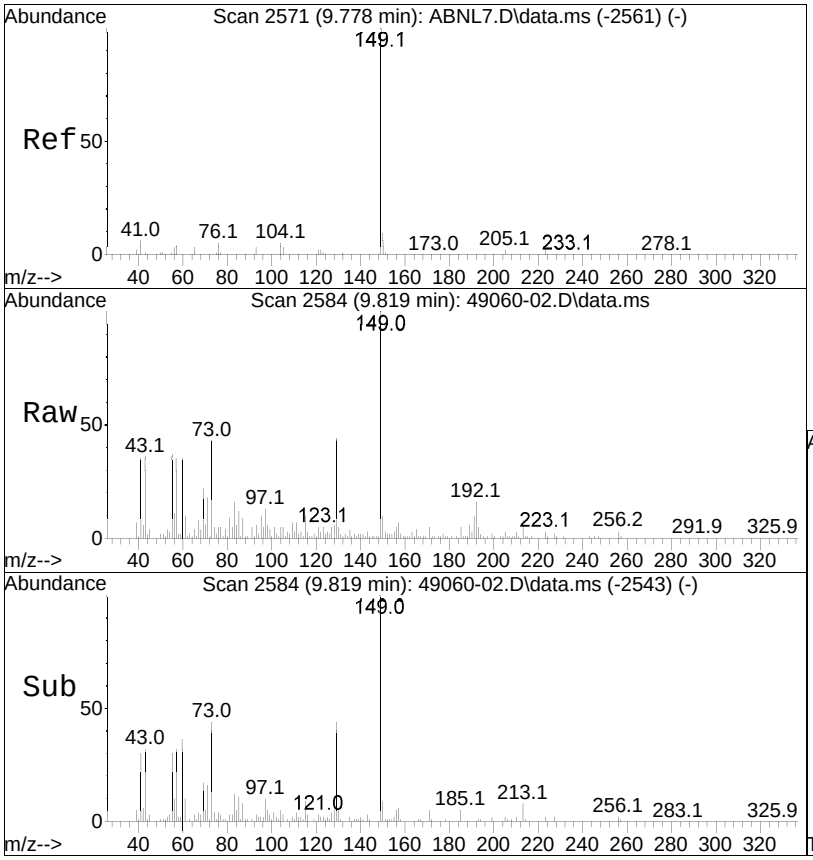


#90
Carbazole
Concen: 4.69 ug/ml
RT: 9.433 min Scan# 2460
Delta R.T. 0.007 min
Lab File: 49060-02.D
Acq: 07 Dec 2018 12:35 am

Tgt Ion:167 Resp: 106109

Ion	Ratio	Lower	Upper
167	100		
168	14.3	10.8	16.2
166	22.6	17.7	26.5

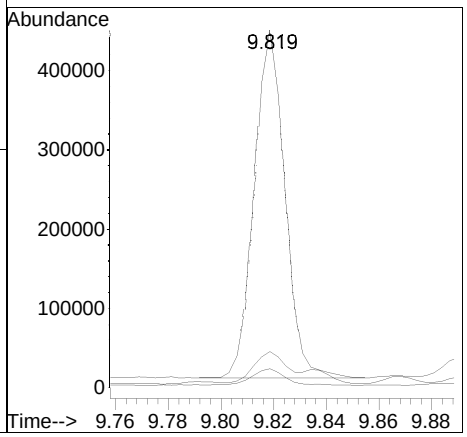


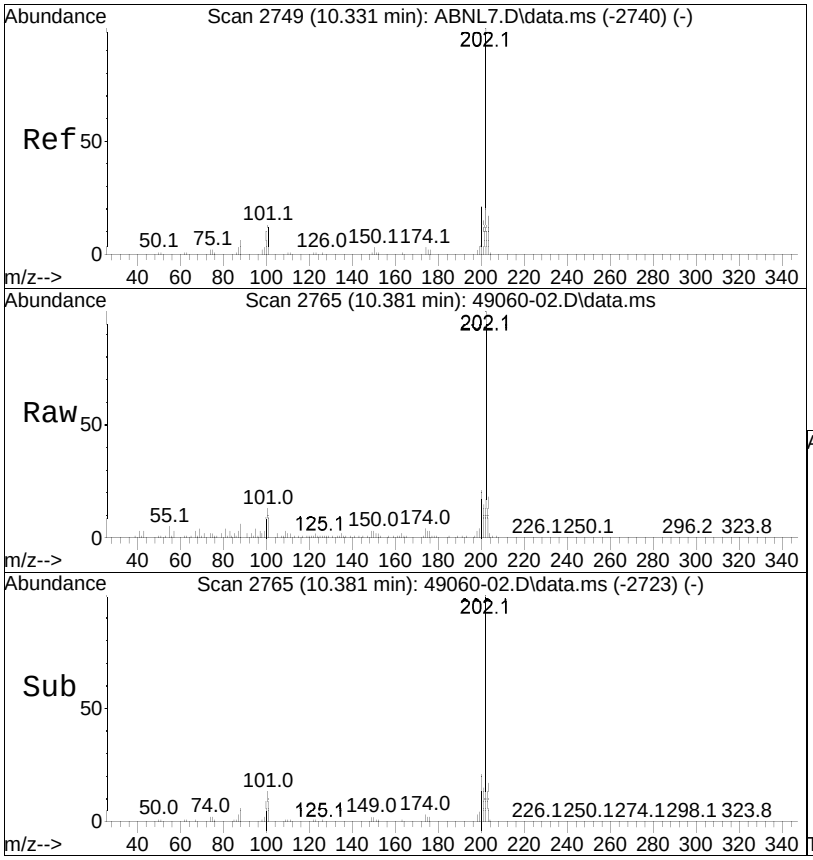


#91
Di-n-butylphthalate
Concen: 13.50 ug/ml
RT: 9.819 min Scan# 2584
Delta R.T. 0.003 min
Lab File: 49060-02.D
Acq: 07 Dec 2018 12:35 am

Tgt Ion:149 Resp: 353005

Ion	Ratio	Lower	Upper
149	100		
150	9.7	7.3	10.9
104	5.3	4.0	6.0

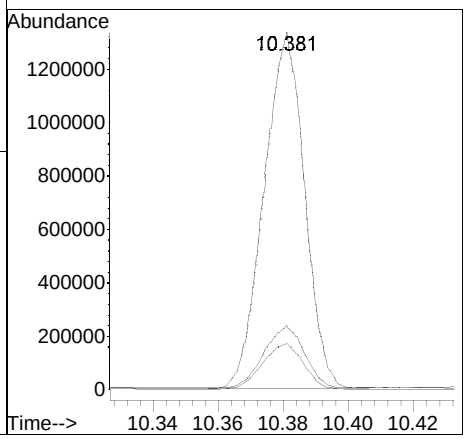


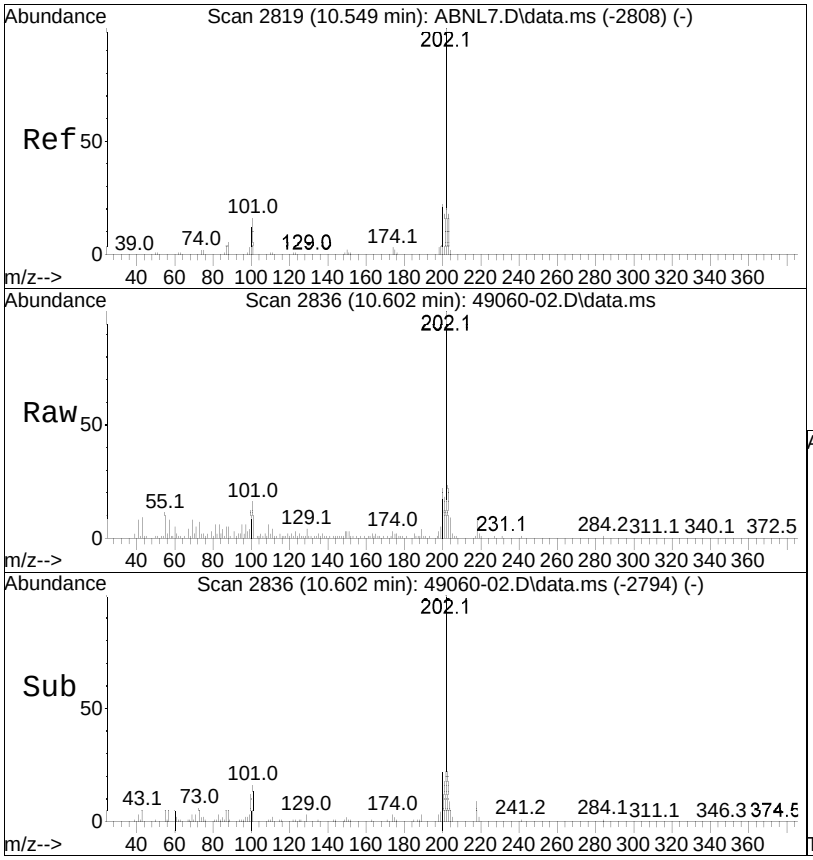


#92
Fluoranthene
Concen: 47.17 ug/ml
RT: 10.381 min Scan# 2765
Delta R.T. 0.007 min
Lab File: 49060-02.D
Acq: 07 Dec 2018 12:35 am

Tgt Ion:202 Resp: 1145618

Ion	Ratio	Lower	Upper
202	100		
101	13.0	11.2	16.8
203	17.3	13.7	20.5

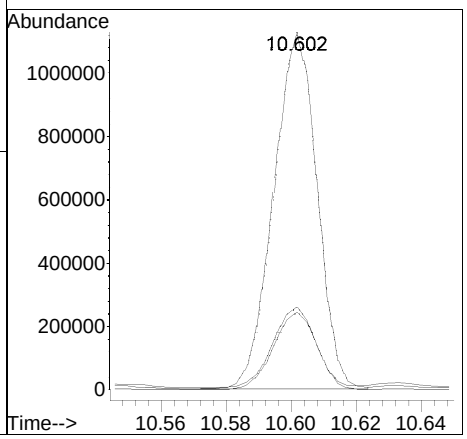


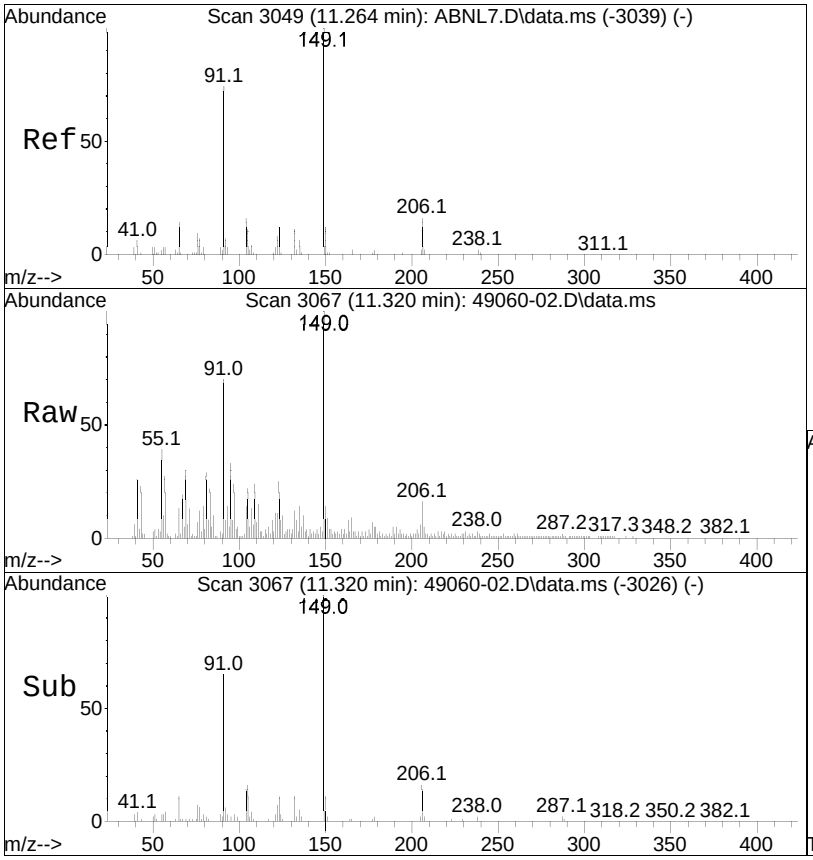


#94
Pyrene
Concen: 40.11 ug/ml
RT: 10.602 min Scan# 2836
Delta R.T. 0.007 min
Lab File: 49060-02.D
Acq: 07 Dec 2018 12:35 am

Tgt Ion:202 Resp: 1030314

Ion	Ratio	Lower	Upper
202	100		
200	21.7	16.9	25.3
203	22.1	14.3	21.5#

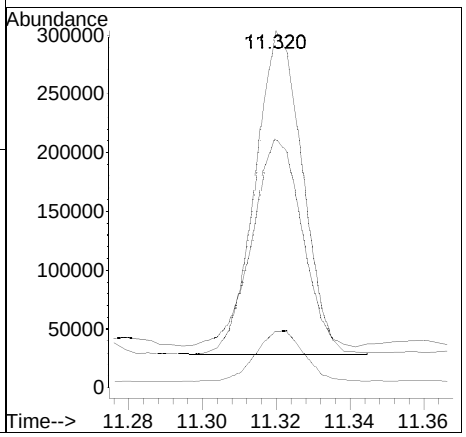


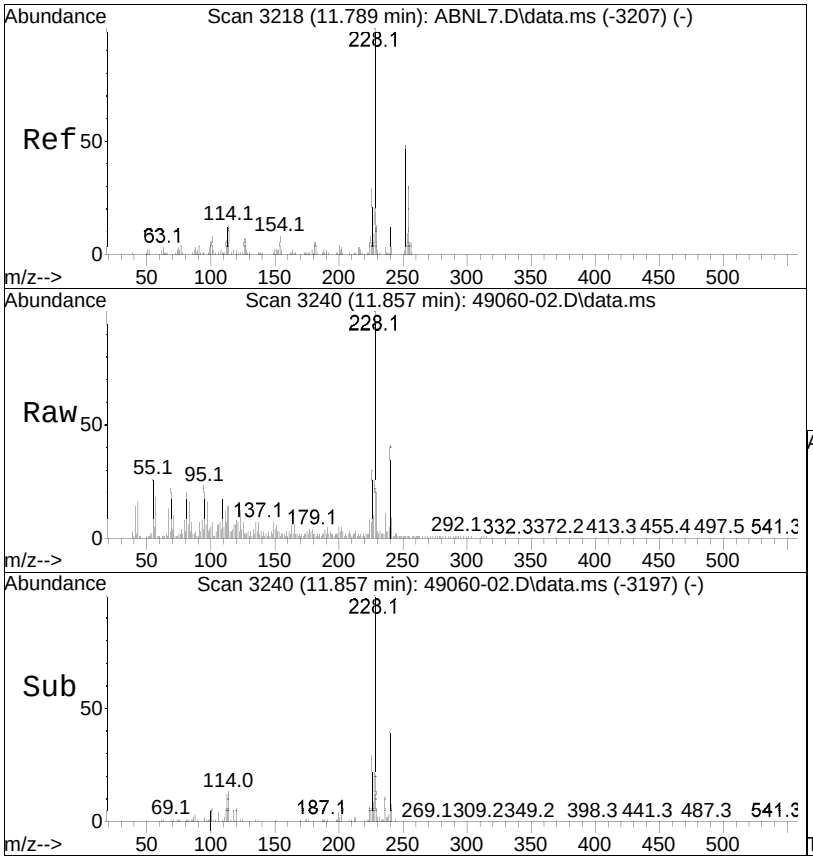


#96
Butyl benzyl phthalate
Concen: 19.77 ug/ml
RT: 11.320 min Scan# 3067
Delta R.T. 0.003 min
Lab File: 49060-02.D
Acq: 07 Dec 2018 12:35 am

Tgt Ion:149 Resp: 241810

Ion	Ratio	Lower	Upper
149	100		
91	67.6	57.9	86.9
206	17.0	11.9	17.9

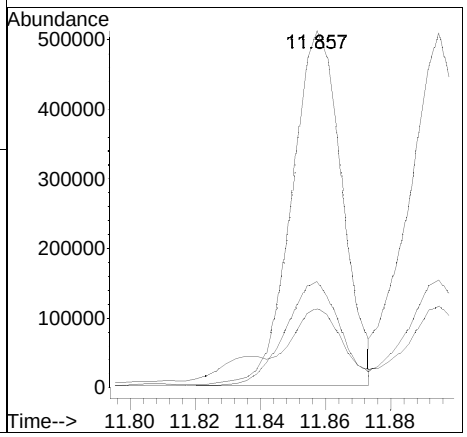


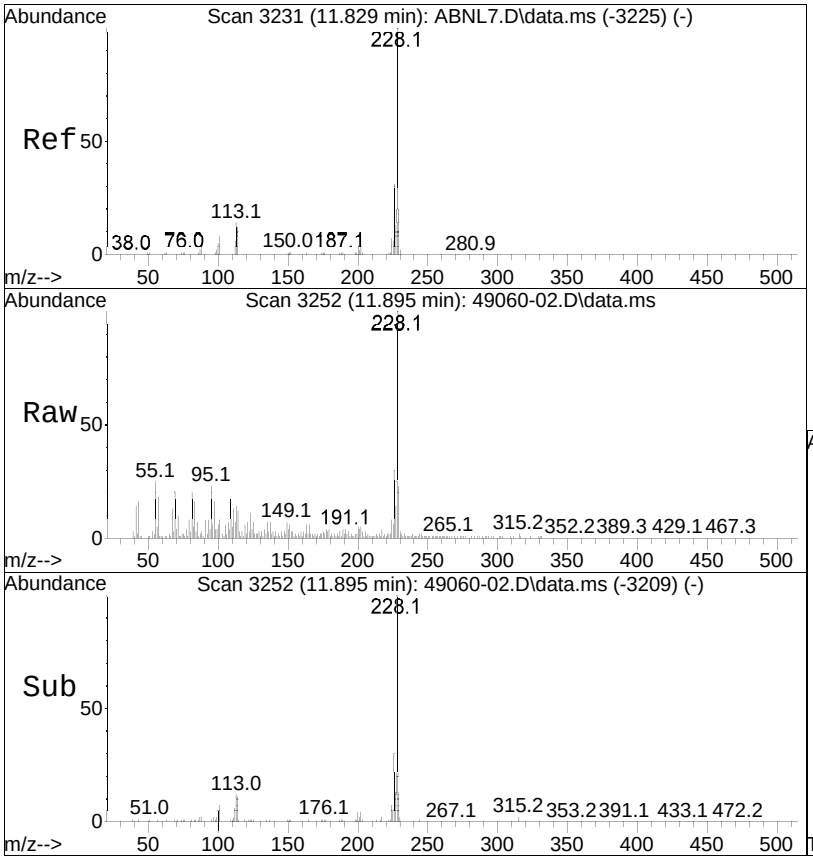


#104
Benzo(a)anthracene
Concen: 25.44 ug/ml
RT: 11.857 min Scan# 3240
Delta R.T. 0.010 min
Lab File: 49060-02.D
Acq: 07 Dec 2018 12:35 am

Tgt Ion:228 Resp: 545573

Ion	Ratio	Lower	Upper
228	100		
226	31.7	22.6	34.0
229	20.6	15.8	23.6

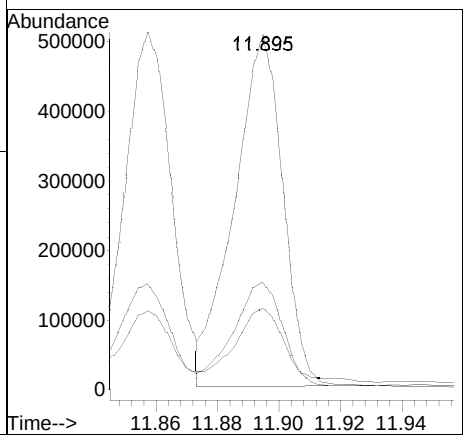


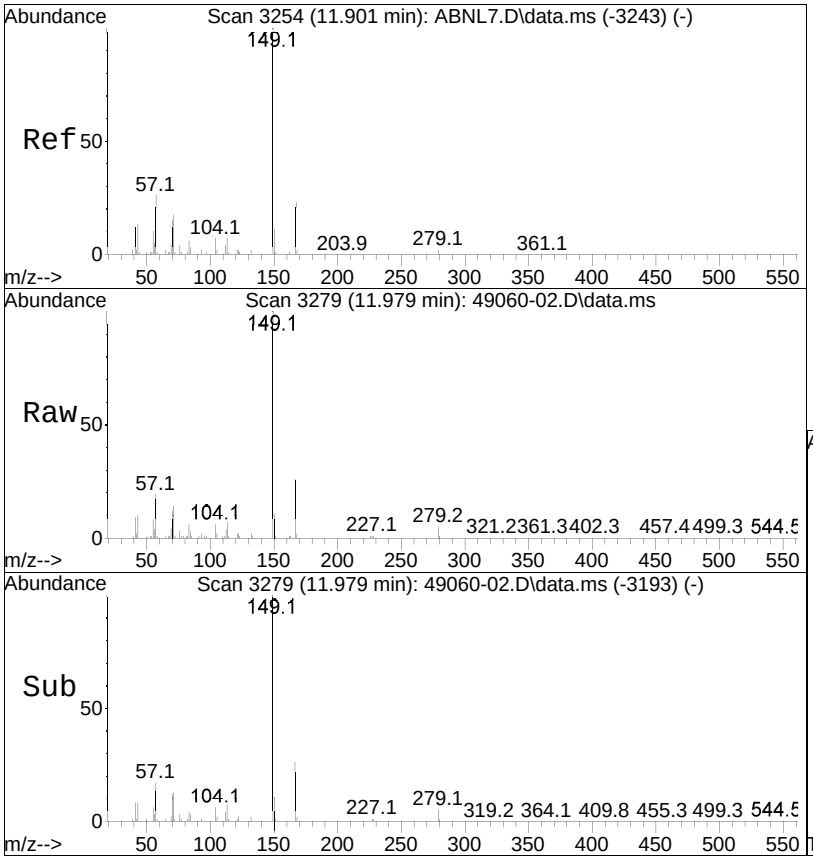


#106
Chrysene
Concen: 26.67 ug/ml
RT: 11.895 min Scan# 3252
Delta R.T. 0.010 min
Lab File: 49060-02.D
Acq: 07 Dec 2018 12:35 am

Tgt Ion:228 Resp: 552942

Ion	Ratio	Lower	Upper
228	100		
226	30.2	24.7	37.1
229	22.0	15.5	23.3

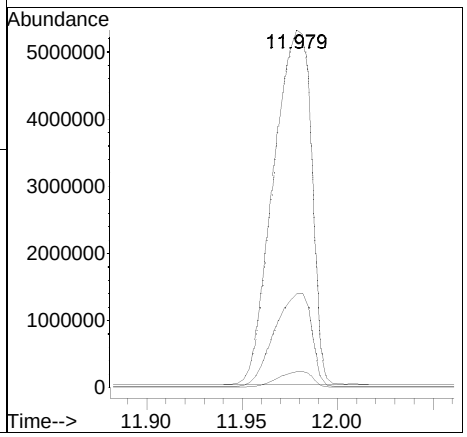


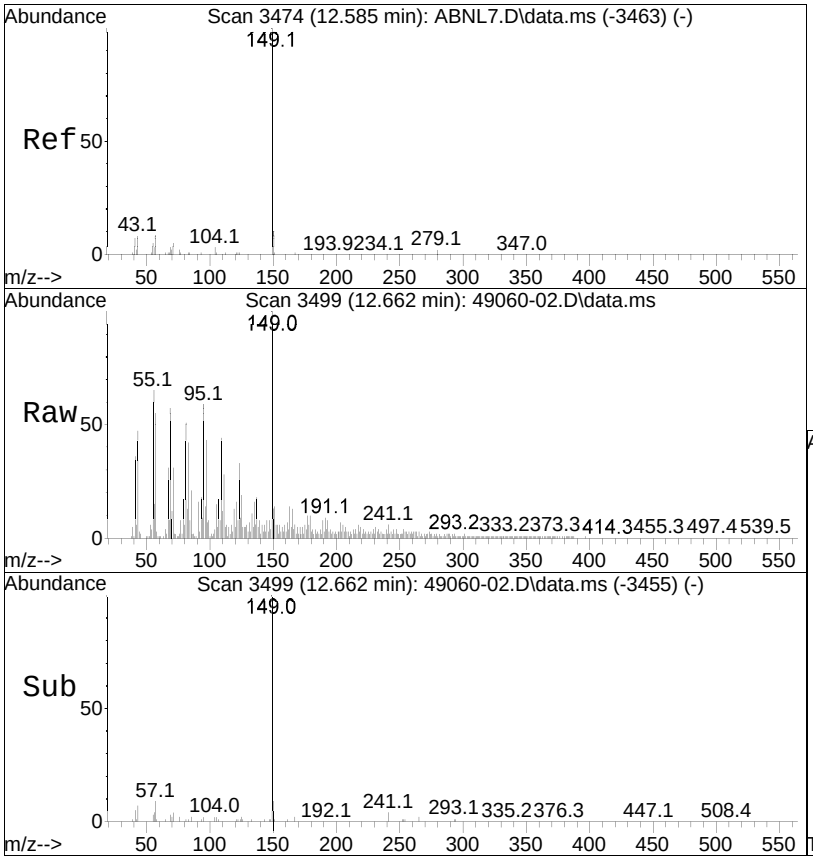


#107
Bis(2-ethylhexyl)phthalate
Concen: 404.99 ug/ml
RT: 11.979 min Scan# 3279
Delta R.T. 0.016 min
Lab File: 49060-02.D
Acq: 07 Dec 2018 12:35 am

Tgt Ion:149 Resp: 7278620

Ion	Ratio	Lower	Upper
149	100		
167	25.7	18.4	27.6
279	4.0	1.7	2.5#

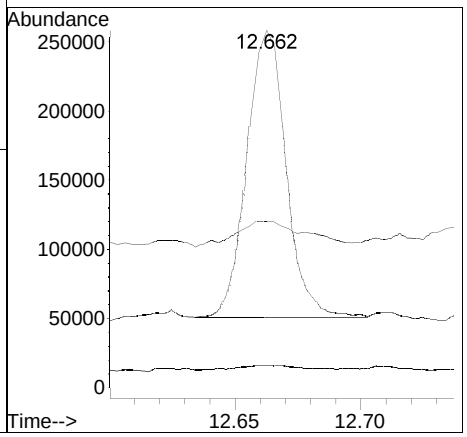


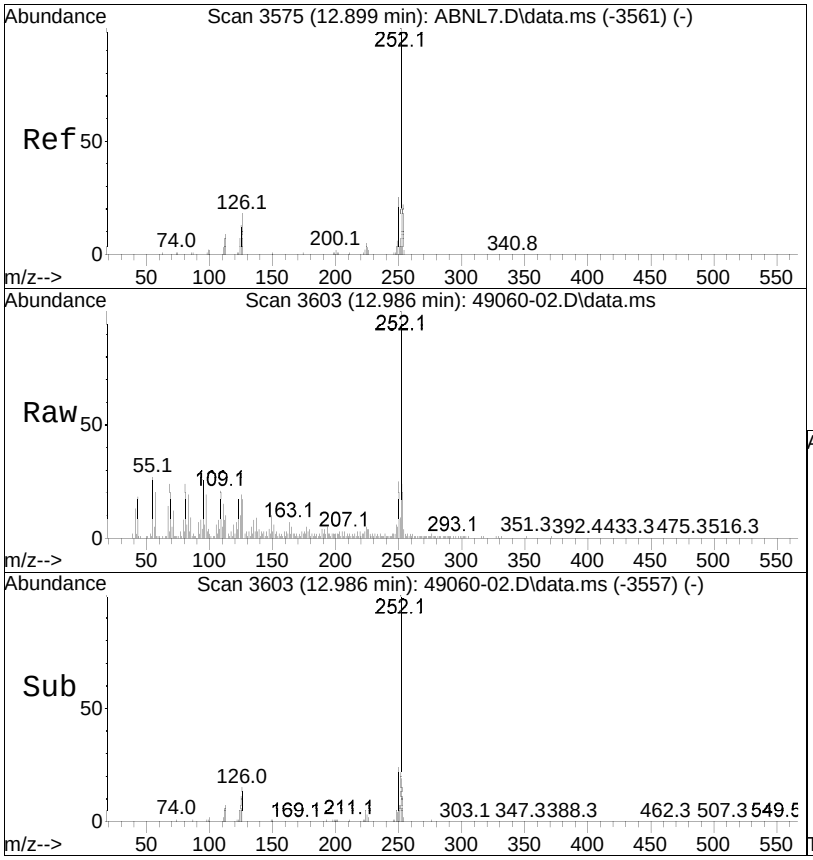


#108
Di-n-octylphthalate
Concen: 9.67 ug/ml
RT: 12.662 min Scan# 3499
Delta R.T. 0.013 min
Lab File: 49060-02.D
Acq: 07 Dec 2018 12:35 am

Tgt Ion:149 Resp: 223996

Ion	Ratio	Lower	Upper
149	100		
43	15.9	8.2	12.2#
167	2.5	1.1	1.7#

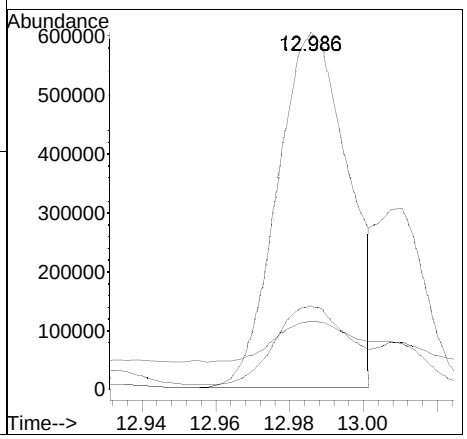


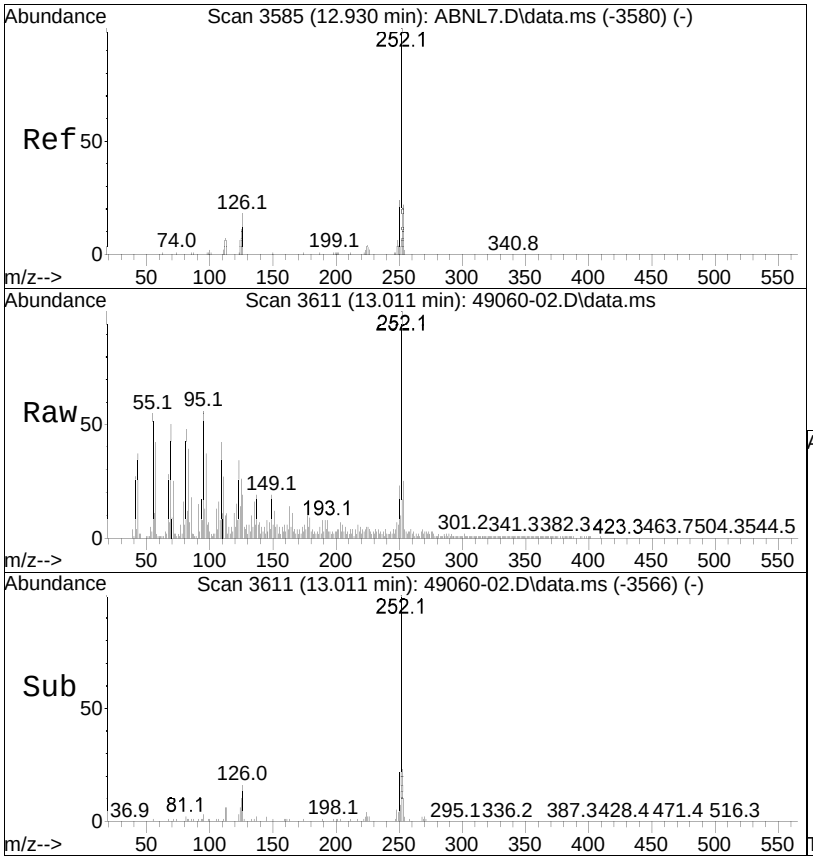


#109
Benzo(b)fluoranthene
Concen: 42.22 ug/ml
RT: 12.986 min Scan# 3603
Delta R.T. 0.019 min
Lab File: 49060-02.D
Acq: 07 Dec 2018 12:35 am

Tgt Ion:252 Resp: 805491

Ion	Ratio	Lower	Upper
252	100		
125	16.4	11.3	16.9
253	22.7	17.8	26.8

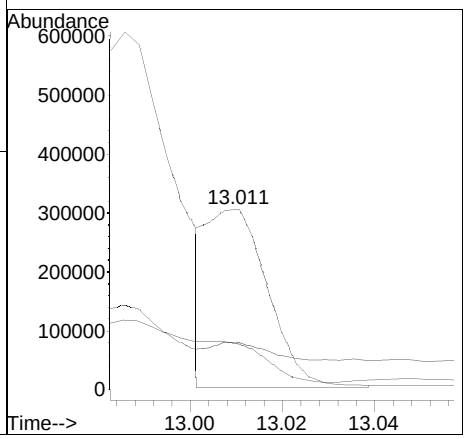


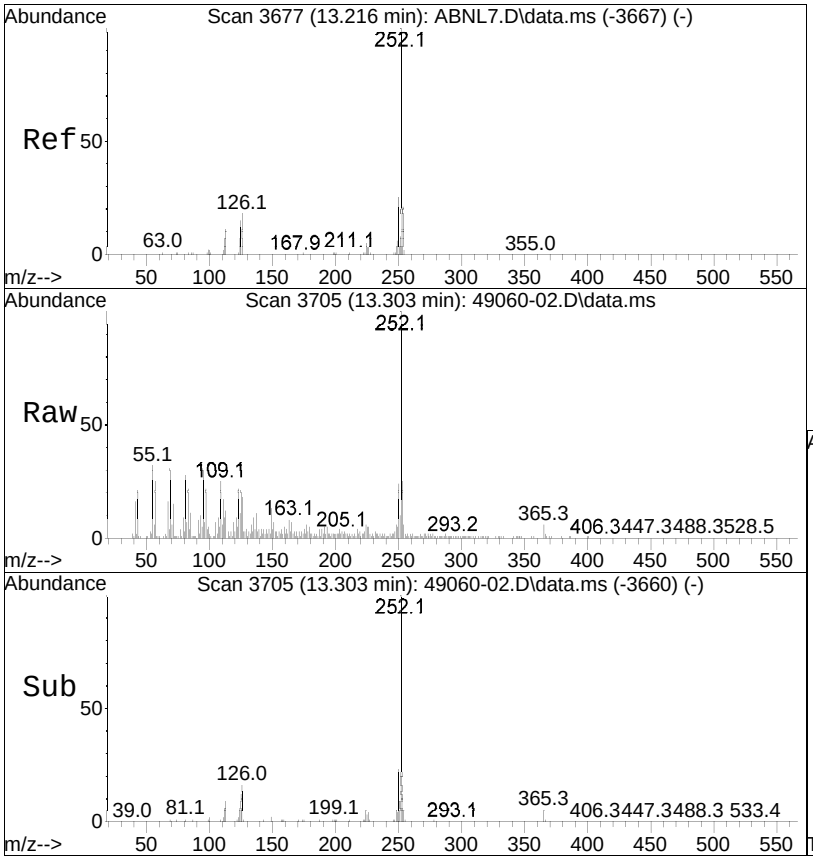


#110
Benzo(k)fluoranthene
Concen: 14.08 ug/ml M3
RT: 13.011 min Scan# 3611
Delta R.T. 0.016 min
Lab File: 49060-02.D
Acq: 07 Dec 2018 12:35 am

Tgt Ion:252 Resp: 277318

Ion	Ratio	Lower	Upper
252	100		
125	47.7	11.5	17.3#
253	65.8	17.6	26.4#

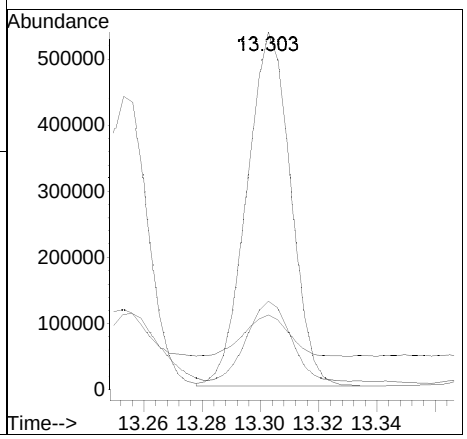


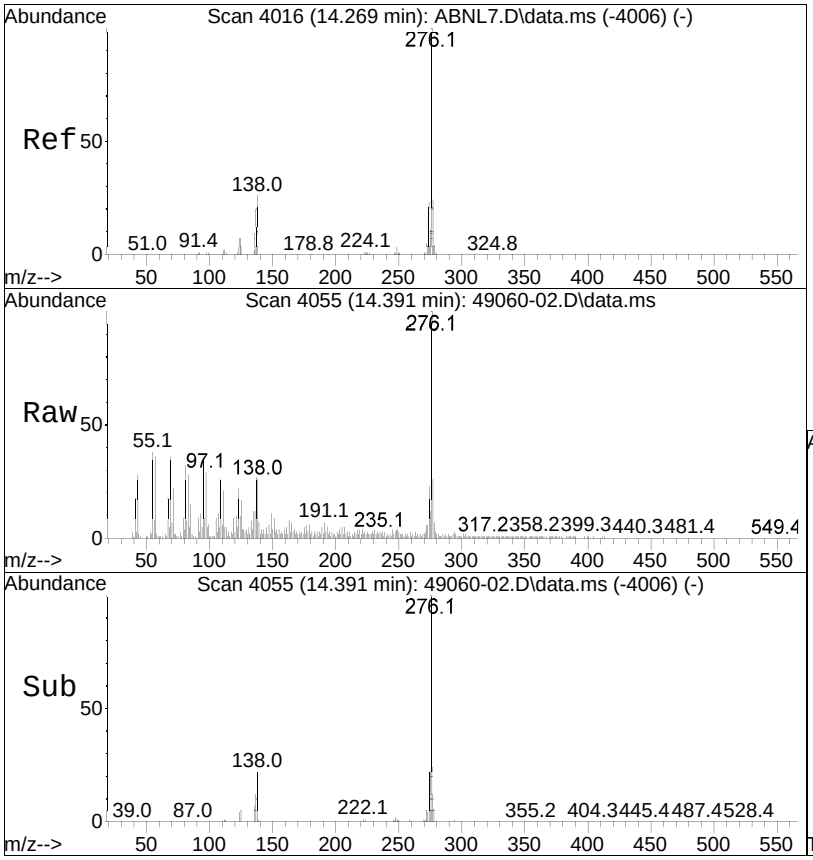


#111
Benzo(a)pyrene
Concen: 29.97 ug/ml
RT: 13.303 min Scan# 3705
Delta R.T. 0.016 min
Lab File: 49060-02.D
Acq: 07 Dec 2018 12:35 am

Tgt Ion:252 Resp: 557053

Ion	Ratio	Lower	Upper
252	100		
125	12.4	12.6	18.8#
253	22.9	17.5	26.3

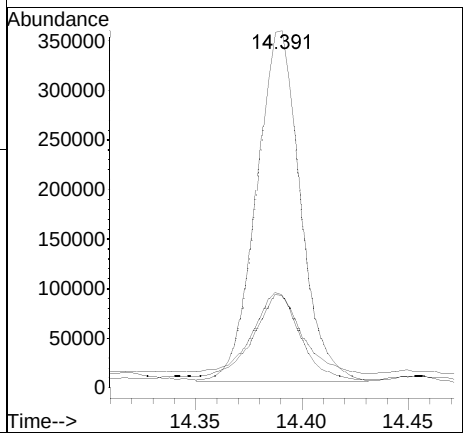


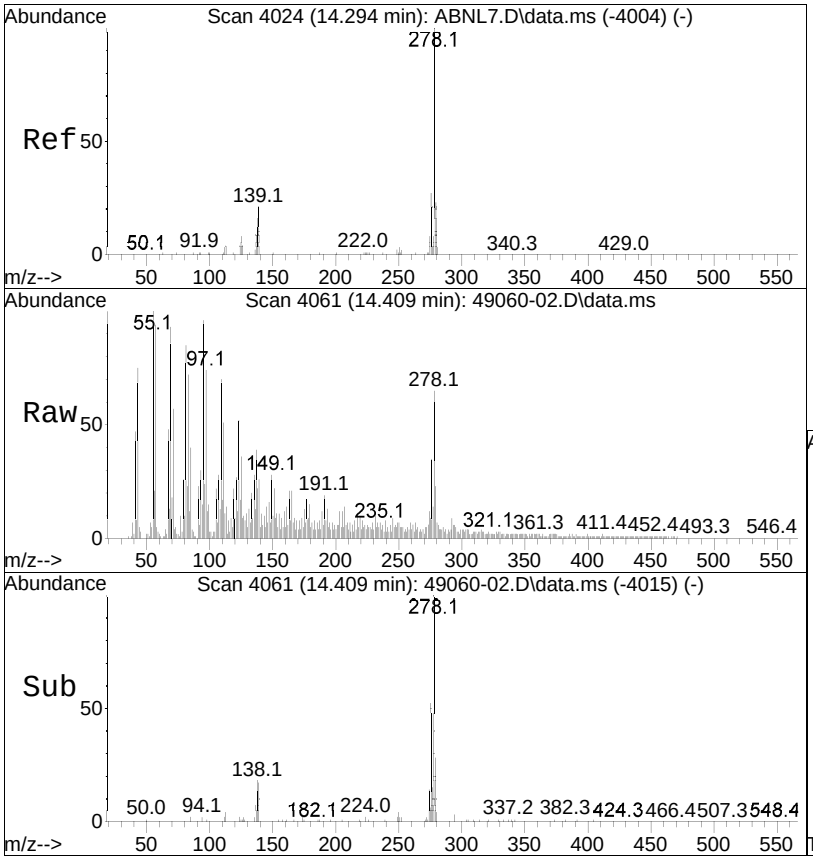


#113
Indeno(1,2,3-cd)pyrene
Concen: 27.44 ug/mL
RT: 14.391 min Scan# 4055
Delta R.T. 0.028 min
Lab File: 49060-02.D
Acq: 07 Dec 2018 12:35 am

Tgt Ion:276 Resp: 504087

Ion	Ratio	Lower	Upper
276	100		
138	26.1	22.1	33.1
277	26.6	19.0	28.6

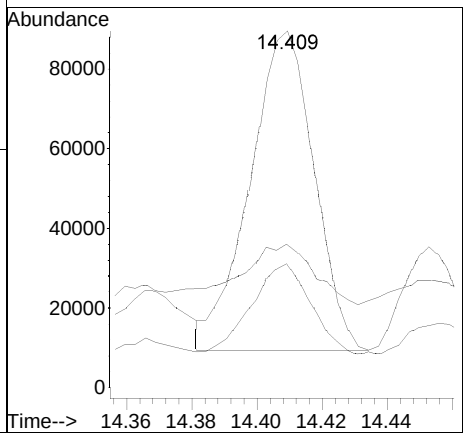


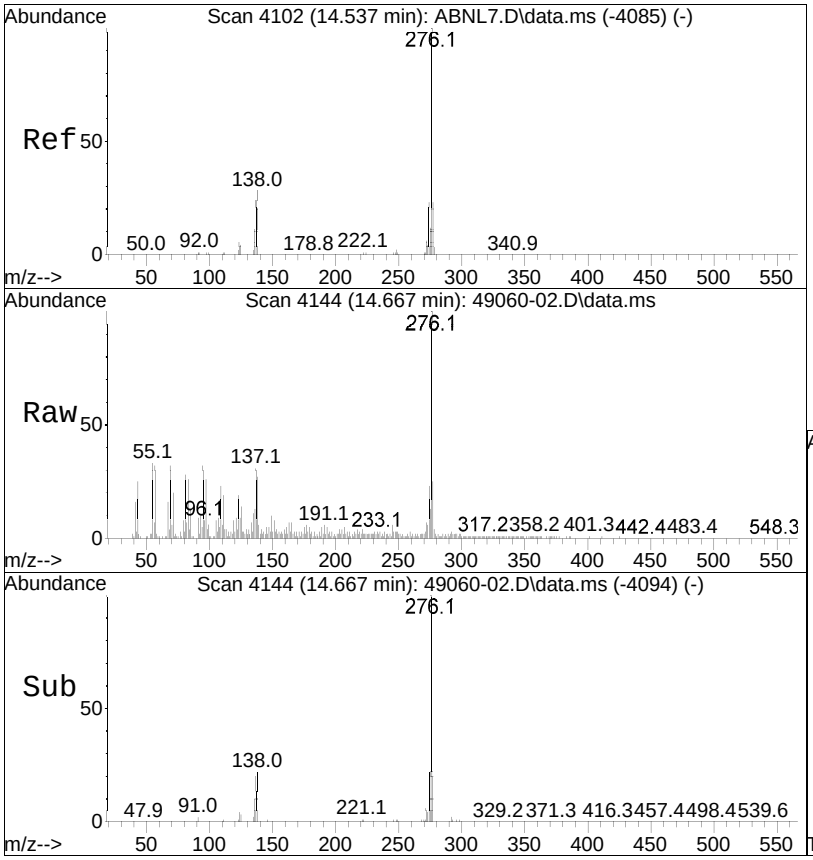


#114
Dibenzo(a,h)anthracene
Concen: 5.86 ug/ml
RT: 14.409 min Scan# 4061
Delta R.T. 0.019 min
Lab File: 49060-02.D
Acq: 07 Dec 2018 12:35 am

Tgt Ion:278 Resp: 108923

Ion	Ratio	Lower	Upper
278	100		
139	21.1	17.8	26.8
279	26.4	19.2	28.8

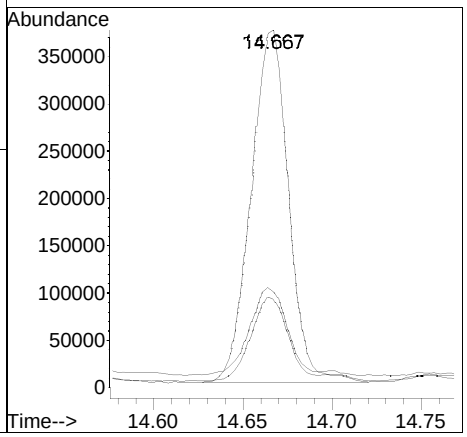




#115
Benzo(ghi)perylene
Concen: 28.95 ug/ml
RT: 14.667 min Scan# 4144
Delta R.T. 0.031 min
Lab File: 49060-02.D
Acq: 07 Dec 2018 12:35 am

Tgt Ion:276 Resp: 537938

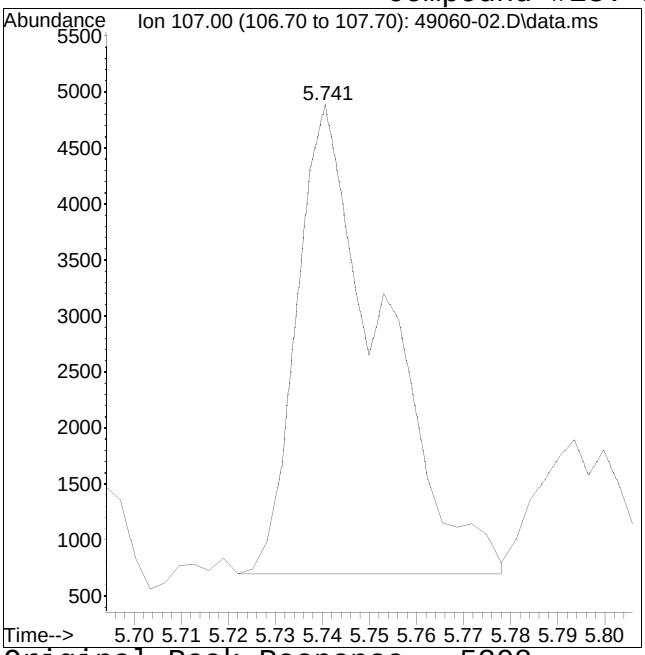
Ion	Ratio	Lower	Upper
276	100		
138	24.9	29.0	43.6#
277	23.6	18.6	27.8



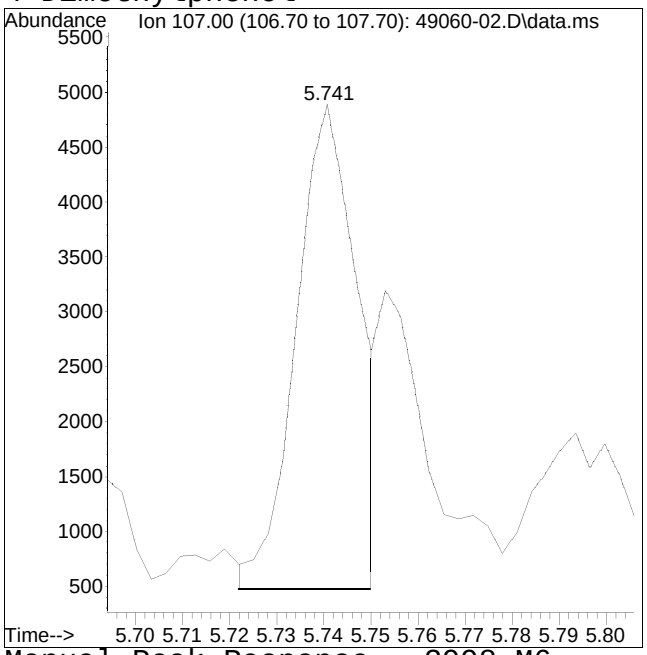
Manual Integration Report

Data Path	: I:\8270\SV112\181206\	QMethod	: FS181205SV112.m
Data File	: 49060-02.D	Operator	: sv112:rc
Date Inj'd	: 12/7/2018 12:35 am	Instrument	: SV112
Sample	: l1849060-02,32,,ny,ask	Quant Date	: 12/7/2018 7:22 am

Compound #23: 2,4-Dimethylphenol



Original Peak Response = 5308



Manual Peak Response = 3998 M6

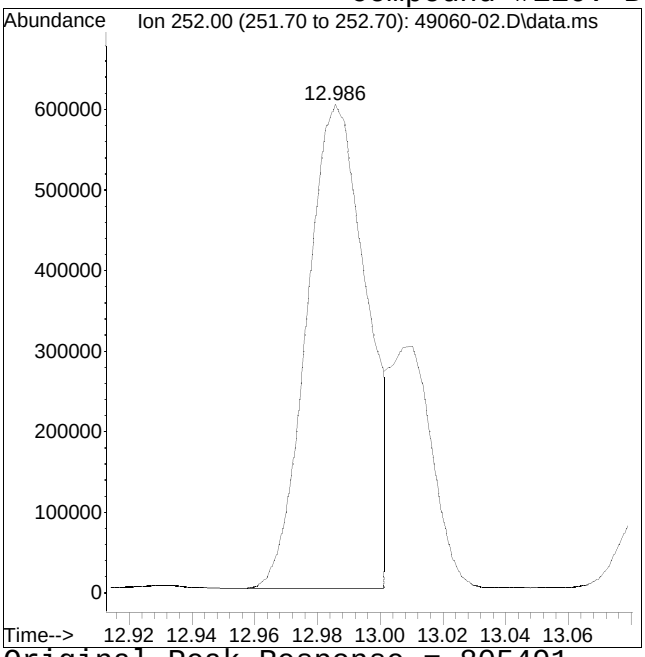
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

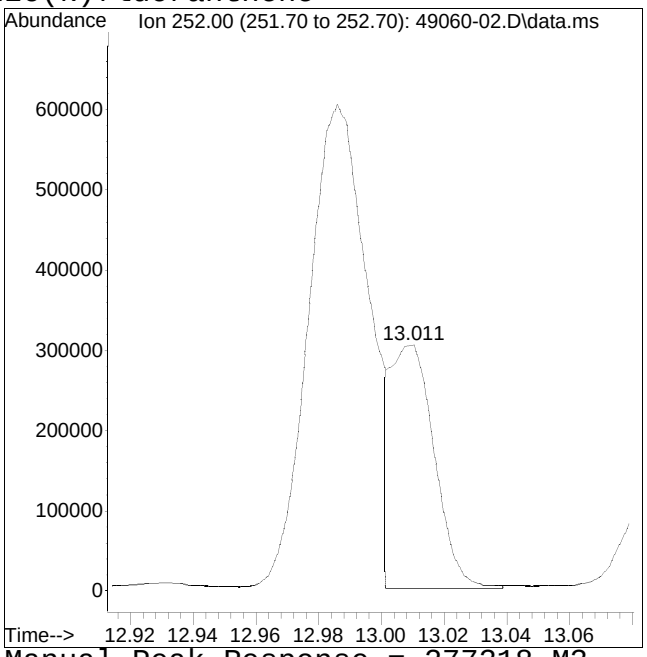
Manual Integration Report

Data Path : I:\8270\SV112\181206\
Data File : 49060-02.D
Date Inj'd : 12/7/2018 12:35 am
Sample : l1849060-02,32,,ny,ask

QMethod : FS181205SV112.m
Operator : sv112:rc
Instrument : SV112
Quant Date : 12/7/2018 7:22 am

Compound #110: Benzo(k)fluoranthene





Original Peak Response = 805491 Manual Peak Response = 277318 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181206\
Data File : 49060-04.D
Acq On : 07 Dec 2018 01:26 am
Operator : sv112:rc
Sample : l1849060-04,32,,ny,ask
Misc : wg1186484,wg1184852,ical15308
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 07 07:53:22 2018
Quant Method : I:\8270\SV112\181206\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 07 07:20:08 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\181206\ABN1206.D
: 2 - I:\8270\SV112\181206\ADP1206.D
: 3 - I:\8270\SV112\181206\AP91206.D
Sub List : 8270TCL_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.786	152	209369	40.000	ug/ml	0.00
Standard Area 1 = 160010			Recovery = 130.85%			
27) IS2_1,4-Dichlorobenzen...	4.786	152	209369	40.000	ug/ml	0.00
Standard Area 3 = 165516			Recovery = 126.49%			
34) IS1_Naphthalene-d8	6.033	136	890576	40.000	ug/ml	0.00
Standard Area 1 = 659812			Recovery = 134.97%			
54) IS2_Naphthalene-d8	6.033	136	890576	40.000	ug/ml	0.00
Standard Area 3 = 688464			Recovery = 129.36%			
62) IS1_Acenaphthene-d10	7.751	164	429623	40.000	ug/ml	0.00
Standard Area 1 = 337355			Recovery = 127.35%			
82) IS2_Acenaphthene-d10	7.751	164	429623	40.000	ug/ml	0.00
Standard Area 3 = 340011			Recovery = 126.36%			
85) IS3_Acenaphthene-d10	7.751	164	429623	40.000	ug/ml	0.00
Standard Area 2 = 332171			Recovery = 129.34%			
87) IS1_Phenanthrene-d10	9.194	188	830189	40.000	ug/ml	0.00
Standard Area 1 = 577618			Recovery = 143.73%			
99) IS3_Phenanthrene-d10	9.194	188	830189	40.000	ug/ml	0.00
Standard Area 2 = 608062			Recovery = 136.53%			
103) IS1_Chrysene-d12	11.870	240	653001	40.000	ug/ml	0.00
Standard Area 1 = 540685			Recovery = 120.77%			
112) IS1_Perylene-d12	13.362	264	636524	40.000	ug/ml	0.02
Standard Area 1 = 528741			Recovery = 120.38%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.512	112	286916	38.983	ug/ml	0.01
Spiked Amount 50.000	Range 15 - 110		Recovery = 77.97%			
7) Phenol-d6	4.466	99	354512	39.688	ug/ml	0.01
Spiked Amount 50.000	Range 15 - 110		Recovery = 79.38%			
19) Nitrobenzene-d5	5.330	82	114835	14.752	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 59.01%			
45) 2-Fluorobiphenyl	7.108	172	335881	20.632	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 82.53%			
78) 2,4,6-Tribromophenol	8.522	330	88530	50.691	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 101.38%			
95) 4-Terphenyl-d14	10.791	244	279996	15.741	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 62.96%			

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181206\
Data File : 49060-04.D
Acq On : 07 Dec 2018 01:26 am
Operator : sv112:rc
Sample : l1849060-04,32,,ny,ask
Misc : wg1186484,wg1184852,ical15308
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 07 07:53:22 2018
Quant Method : I:\8270\SV112\181206\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 07 07:20:08 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\181206\ABN1206.D
: 2 - I:\8270\SV112\181206\ADP1206.D
: 3 - I:\8270\SV112\181206\AP91206.D
Sub List : 8270TCL_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	4.479	94	39715M3	3.819	ug/ml	
9) Bis(2-chloroethyl)ether	0.000		0	N.D.	d	
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
16) Hexachloroethane	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	5.224	108	5453	0.745	ug/ml#	88
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	4.351	105	18443M6	2.981	ug/ml	
29) Acetophenone	5.190	105	6976	0.673	ug/ml#	91
35) Naphthalene	6.051	128	19644	0.815	ug/ml	97
37) 4-Chloroaniline	0.000		0	N.D.	d	
38) Hexachlorobutadiene	0.000		0	N.D.		
39) p-Chloro-m-cresol	0.000		0	N.D.	d	
40) 2-Methylnaphthalene	6.738	142	11568	0.739	ug/ml	96
42) Hexachlorocyclopentadiene	0.000		0	N.D.		
43) 2,4,6-Trichlorophenol	0.000		0	N.D.		
44) 2,4,5-Trichlorophenol	0.000		0	N.D.		
46) 2-Chloronaphthalene	0.000		0	N.D.	d	
47) 2-Nitroaniline	0.000		0	N.D.		
50) Dimethyl phthalate	0.000		0	N.D.	d	
51) Acenaphthylene	7.608	152	15838	0.711	ug/ml	98
52) 2,6-Dinitrotoluene	0.000		0	N.D.		
59) Caprolactam	0.000		0	N.D.	d	
60) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
61) Biphenyl	0.000		0	N.D.	d	
63) 3-Nitroaniline	0.000		0	N.D.		
64) Acenaphthene	7.779	154	7202	0.570	ug/ml	96
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	7.950	168	12667	0.658	ug/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181206\
Data File : 49060-04.D
Acq On : 07 Dec 2018 01:26 am
Operator : sv112:rc
Sample : l1849060-04,32,,ny,ask
Misc : wg1186484,wg1184852,ical15308
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 07 07:53:22 2018
Quant Method : I:\8270\SV112\181206\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 07 07:20:08 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\181206\ABN1206.D
: 2 - I:\8270\SV112\181206\ADP1206.D
: 3 - I:\8270\SV112\181206\AP91206.D
Sub List : 8270TCL_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
67) 2,4-Dinitrotoluene	0.000		0	N.D.		
68) 4-Nitrophenol	0.000		0	N.D.		
70) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
71) Diethyl phthalate	0.000		0	N.D.		
72) Fluorene	8.283	166	12592	0.856	ug/ml#	97
73) 4-Chlorophenyl phenyl ...	0.000		0	N.D.	d	
74) 4-Nitroaniline	0.000		0	N.D.	d	
75) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
76) NDPA/DPA	0.000		0	N.D.	d	
79) 4-Bromophenyl phenyl e...	0.000		0	N.D.		
80) Hexachlorobenzene	0.000		0	N.D.		
81) Pentachlorophenol	0.000		0	N.D.		
86) Atrazine	0.000		0	N.D.		
88) Phenanthrene	9.215	178	147250	5.935	ug/ml	99
89) Anthracene	9.265	178	35608	1.475	ug/ml#	95
90) Carbazole	9.433	167	16212	0.704	ug/ml	93
91) Di-n-butylphthalate	9.818	149	14583	0.548	ug/ml#	84
92) Fluoranthene	10.381	202	223600	9.048	ug/ml	99
94) Pyrene	10.602	202	191858	7.341	ug/ml	96
96) Butyl benzyl phthalate	0.000		0	N.D.	d	
104) Benzo(a)anthracene	11.857	228	85399	4.084	ug/ml	94
105) 3,3'-Dichlorobenzidine	0.000		0	N.D.	d	
106) Chrysene	11.895	228	108823	5.383	ug/ml	96
107) Bis(2-ethylhexyl)phtha...	11.969	149	87422	6.732	ug/ml#	99
108) Di-n-octylphthalate	0.000		0	N.D.	d	
109) Benzo(b)fluoranthene	12.986	252	124972	6.718	ug/ml	96
110) Benzo(k)fluoranthene	13.010	252	46423M3	2.417	ug/ml	
111) Benzo(a)pyrene	13.303	252	72260	3.988	ug/ml#	92
113) Indeno(1,2,3-cd)pyrene	14.387	276	58410	3.404	ug/mL#	90
114) Dibenzo(a,h)anthracene	14.412	278	14892	0.858	ug/ml#	89
115) Benzo(ghi)perylene	14.667	276	60893	3.508	ug/ml#	89

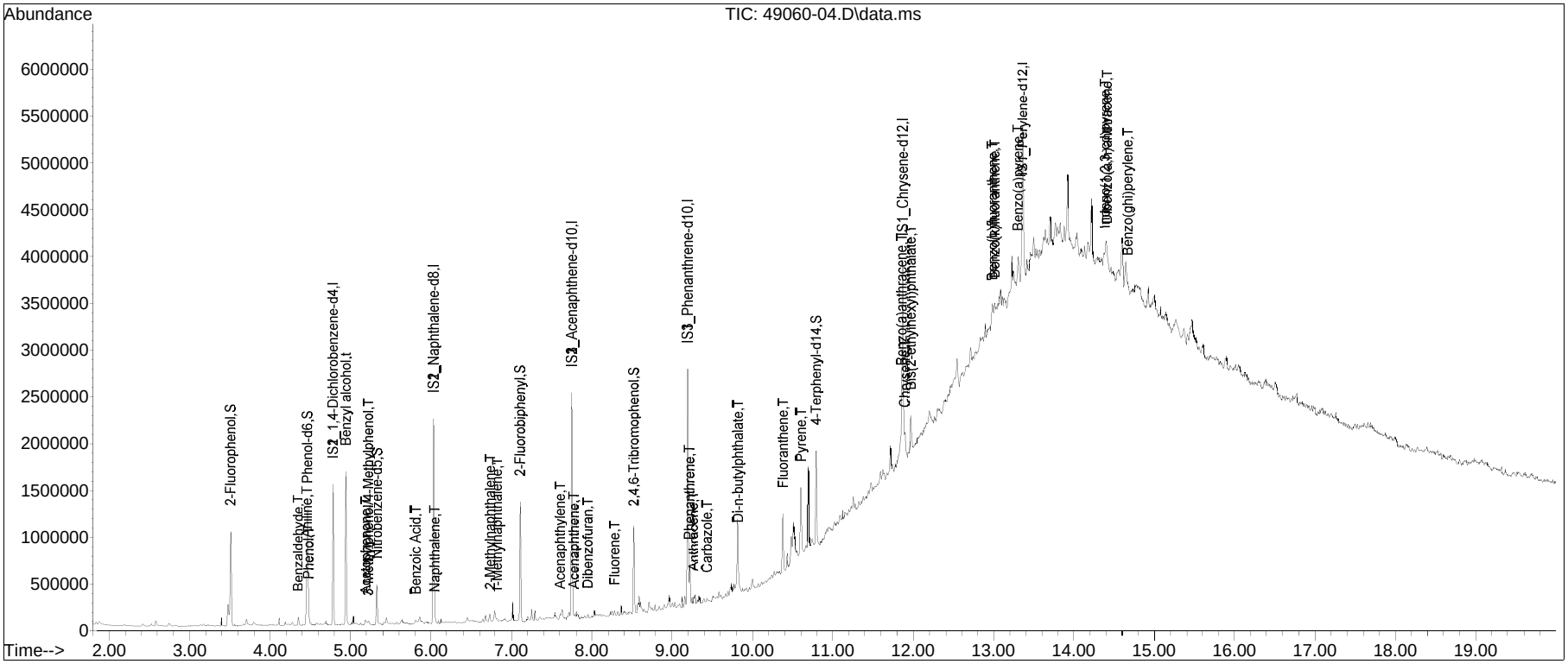
(#) = qualifier out of range (m) = manual integration (+) = signals summed

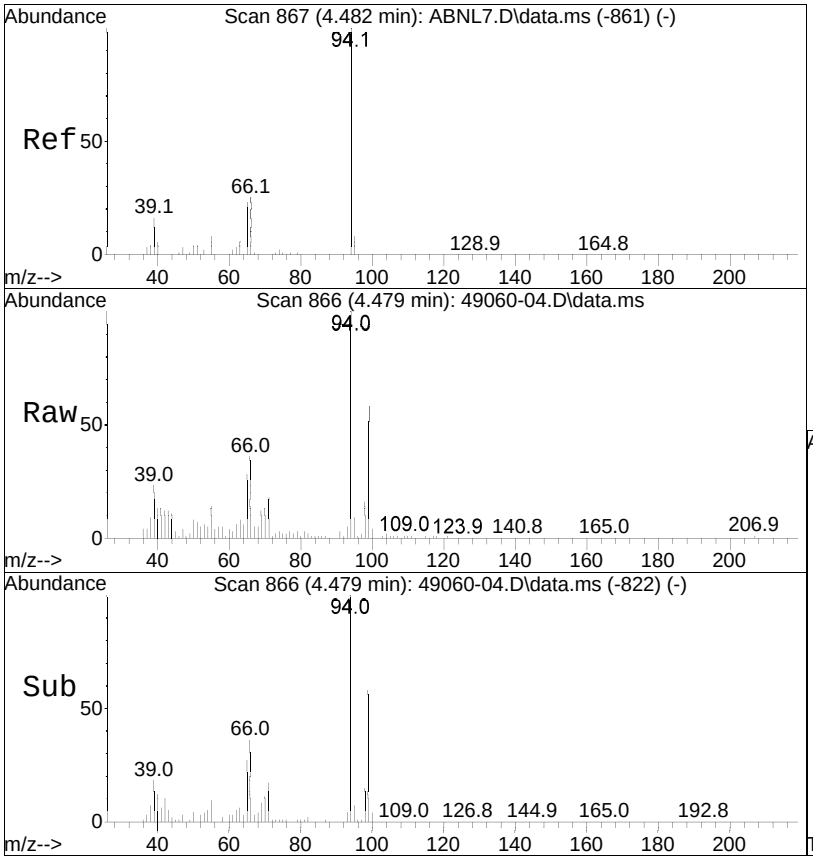
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181206\
Data File : 49060-04.D
Acq On : 07 Dec 2018 01:26 am
Operator : sv112:rc
Sample : l1849060-04,32,,ny,ask
Misc : wg1186484,wg1184852,ical15308
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 07 07:53:22 2018
Quant Method : I:\8270\SV112\181206\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 07 07:20:08 2018
Response via : Initial Calibration

Sub List : 8270TCL_REV1 - TCL/CT/MA\AP91206.D•

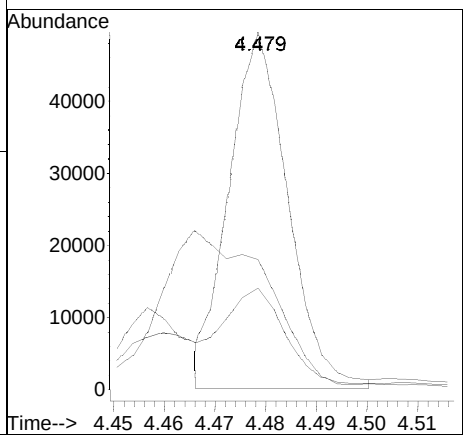


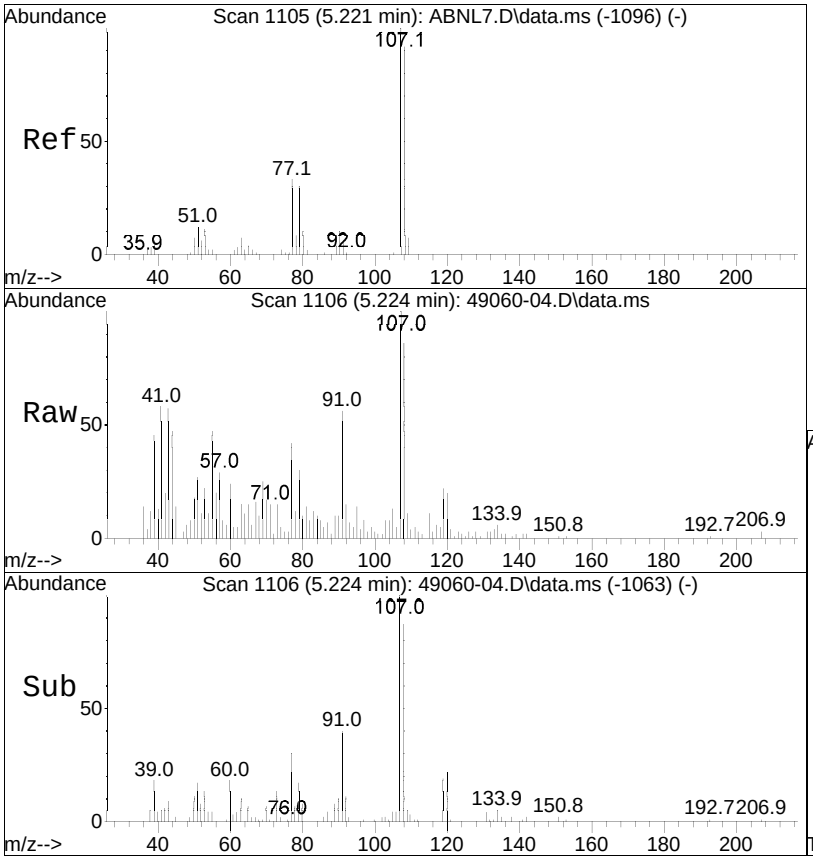


#8
Phenol
Concen: 3.82 ug/ml M3
RT: 4.479 min Scan# 866
Delta R.T. 0.013 min
Lab File: 49060-04.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion: 94 Resp: 39715

Ion	Ratio	Lower	Upper
94	100		
65	18.7	23.0	34.6#
66	82.7	32.1	48.1#

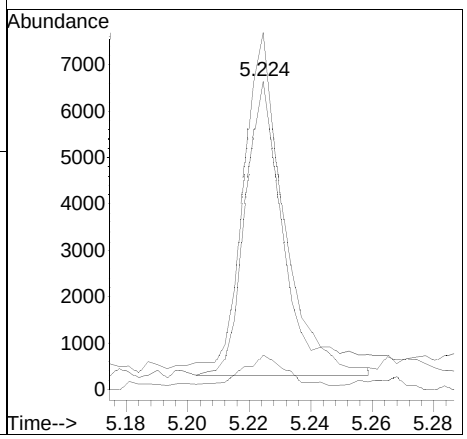


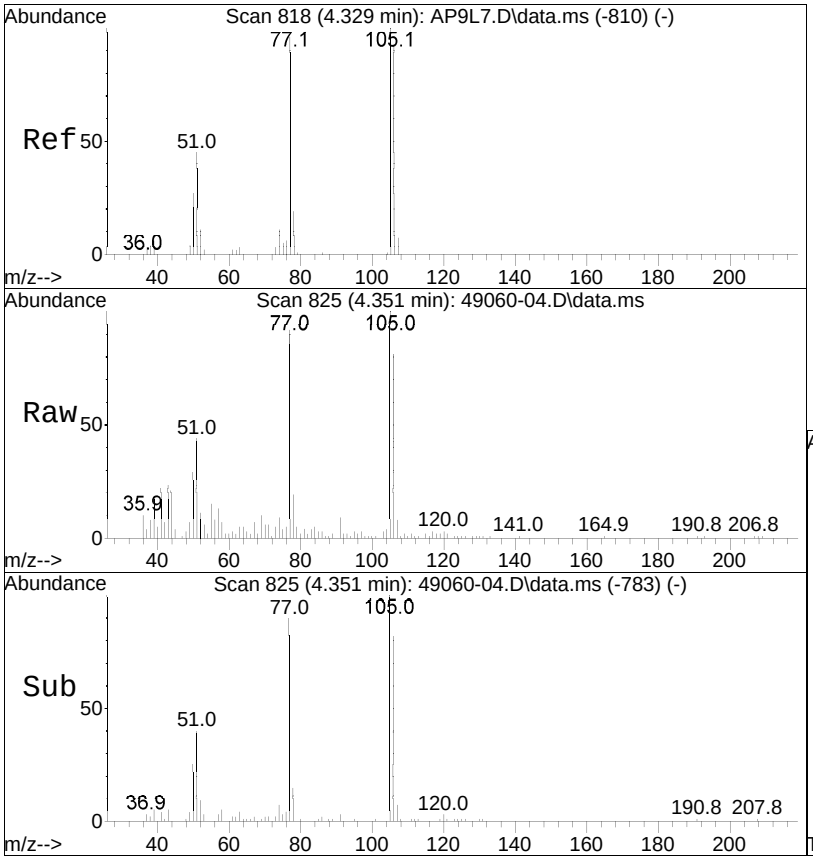


#18
3-Methylphenol/4-Methylphenol
Concen: 0.74 ug/ml
RT: 5.224 min Scan# 1106
Delta R.T. 0.009 min
Lab File: 49060-04.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion:108 Resp: 5453

Ion	Ratio	Lower	Upper
108	100		
107	121.7	88.8	133.2
90	0.0	9.0	13.6#

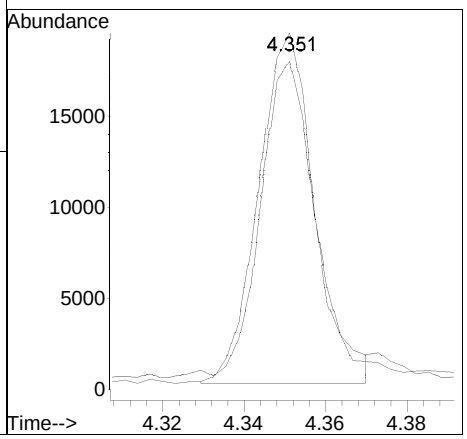


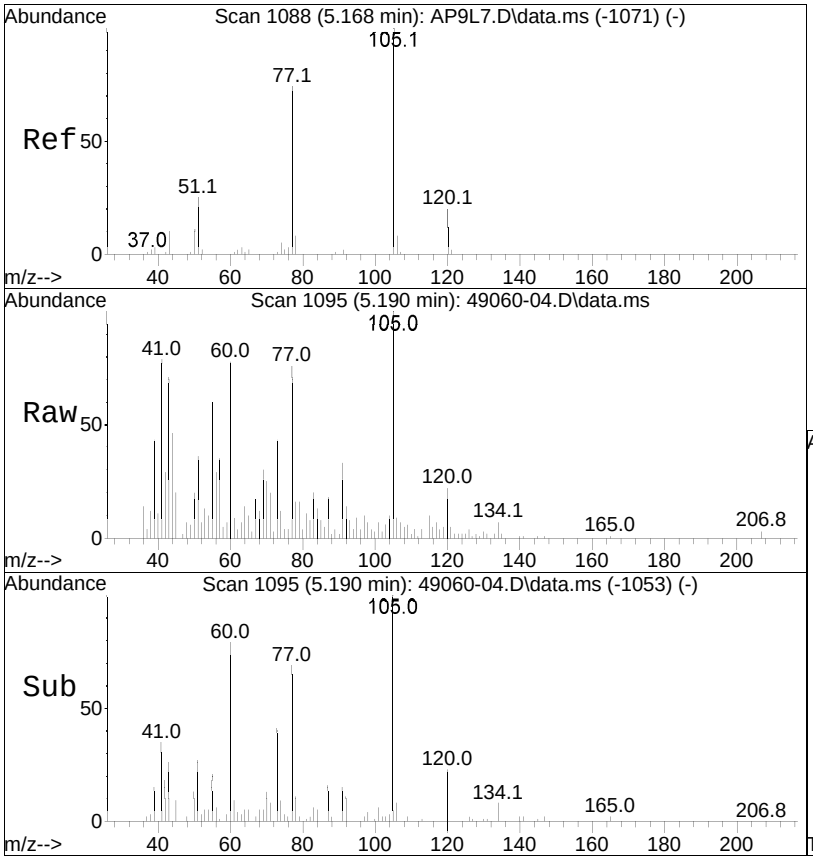


#28
Benzaldehyde
Concen: 2.98 ug/ml M6
RT: 4.351 min Scan# 825
Delta R.T. 0.006 min
Lab File: 49060-04.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion:105 Resp: 18443

Ion	Ratio	Lower	Upper
105	100		
77	89.4	77.0	115.6

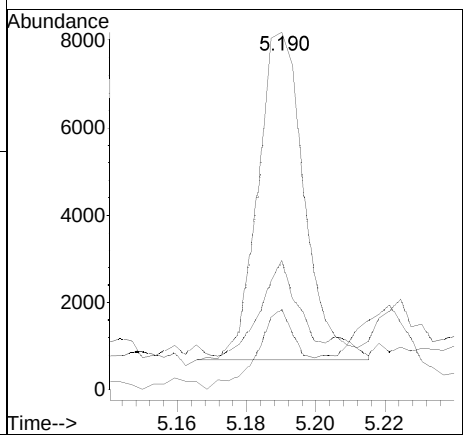


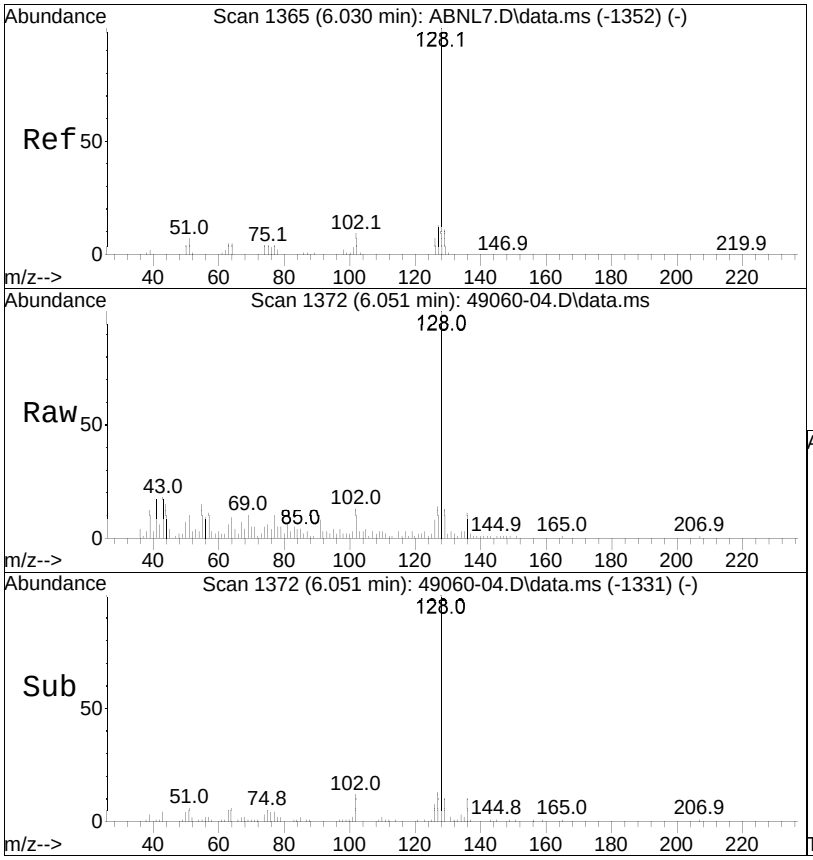


#29
Acetophenone
Concen: 0.67 ug/ml
RT: 5.190 min Scan# 1095
Delta R.T. 0.006 min
Lab File: 49060-04.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion:105 Resp: 6976

Ion	Ratio	Lower	Upper
105	100		
120	22.9	15.2	22.8#
51	24.2	23.1	34.7

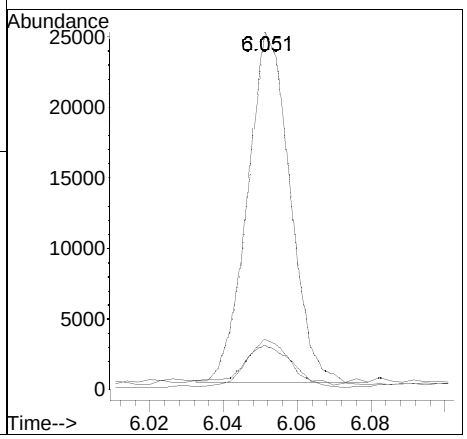


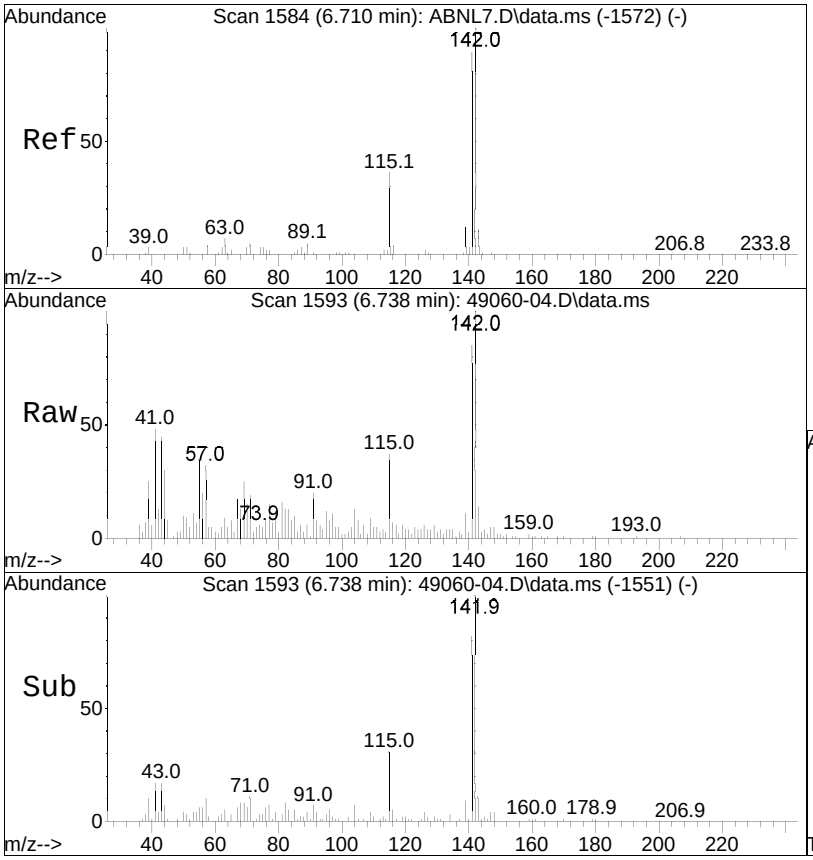


#35
Naphthalene
Concen: 0.82 ug/ml
RT: 6.051 min Scan# 1372
Delta R.T. 0.003 min
Lab File: 49060-04.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion:128 Resp: 19644

Ion	Ratio	Lower	Upper
128	100		
129	12.8	8.9	13.3
127	13.6	10.6	15.8

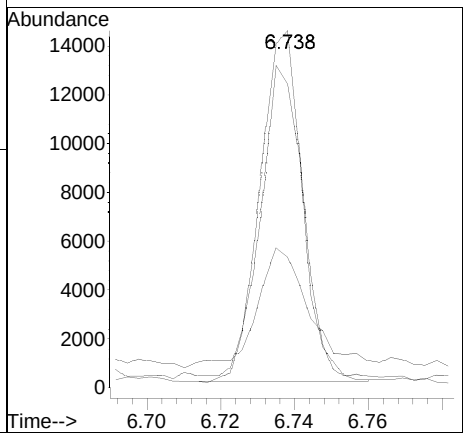


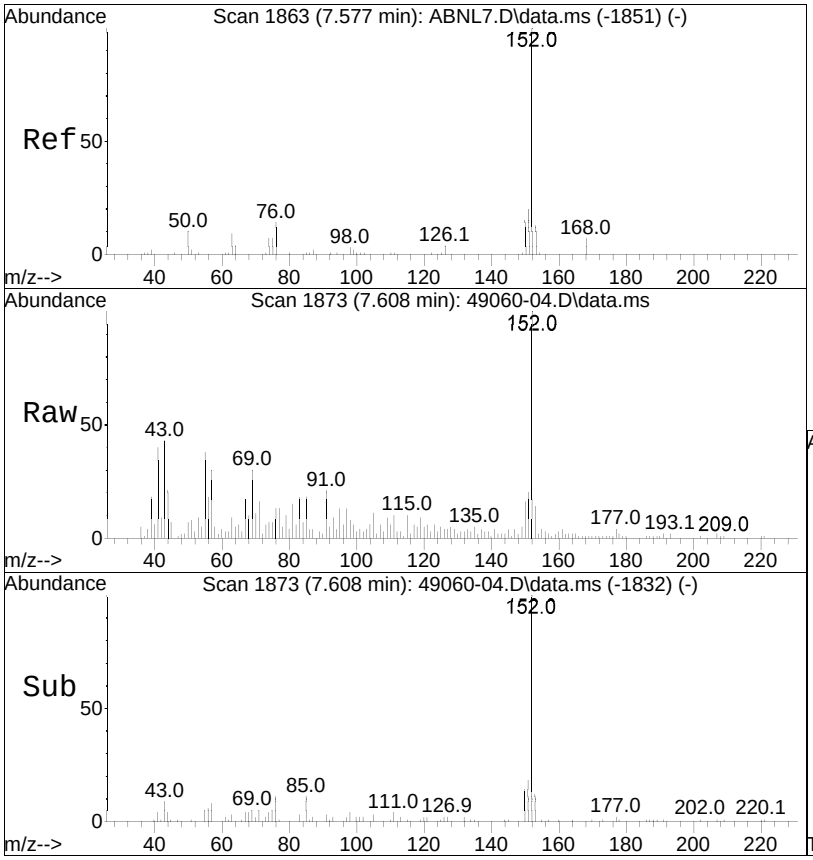


#40
2-Methylnaphthalene
Concen: 0.74 ug/ml
RT: 6.738 min Scan# 1593
Delta R.T. 0.006 min
Lab File: 49060-04.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion:142 Resp: 11568

Ion	Ratio	Lower	Upper
142	100		
141	91.1	72.2	108.4
115	41.3	27.8	41.6

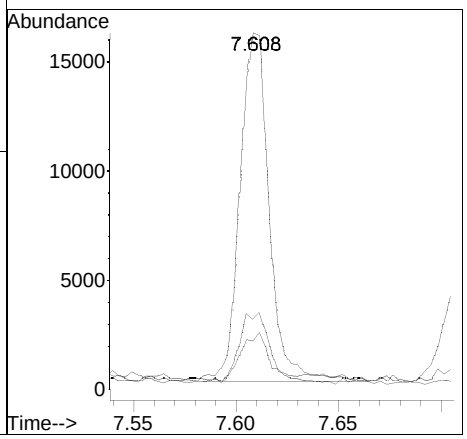


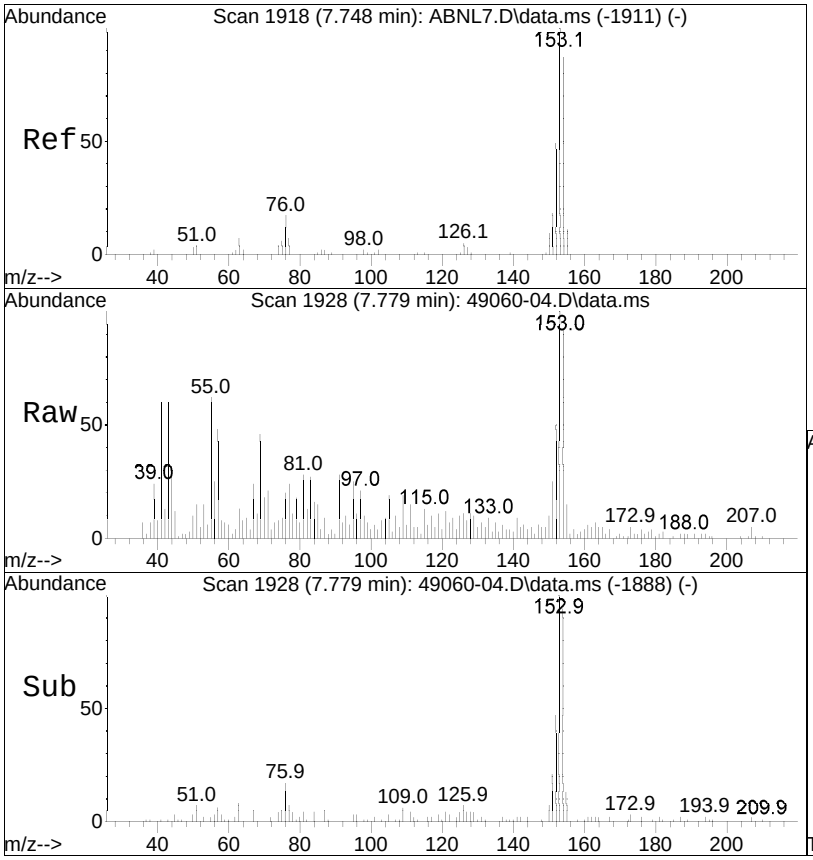


#51
Acenaphthylene
Concen: 0.71 ug/ml
RT: 7.608 min Scan# 1873
Delta R.T. 0.003 min
Lab File: 49060-04.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion:152 Resp: 15838

Ion	Ratio	Lower	Upper
152	100		
151	19.3	15.9	23.9
153	14.7	10.5	15.7

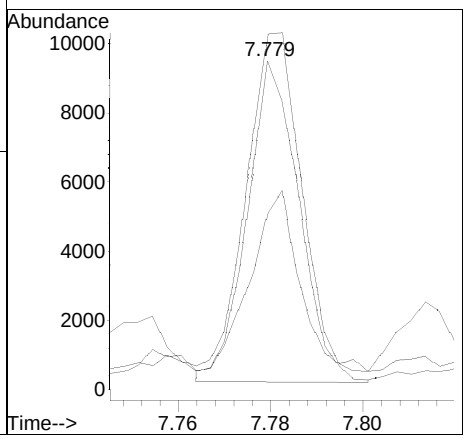


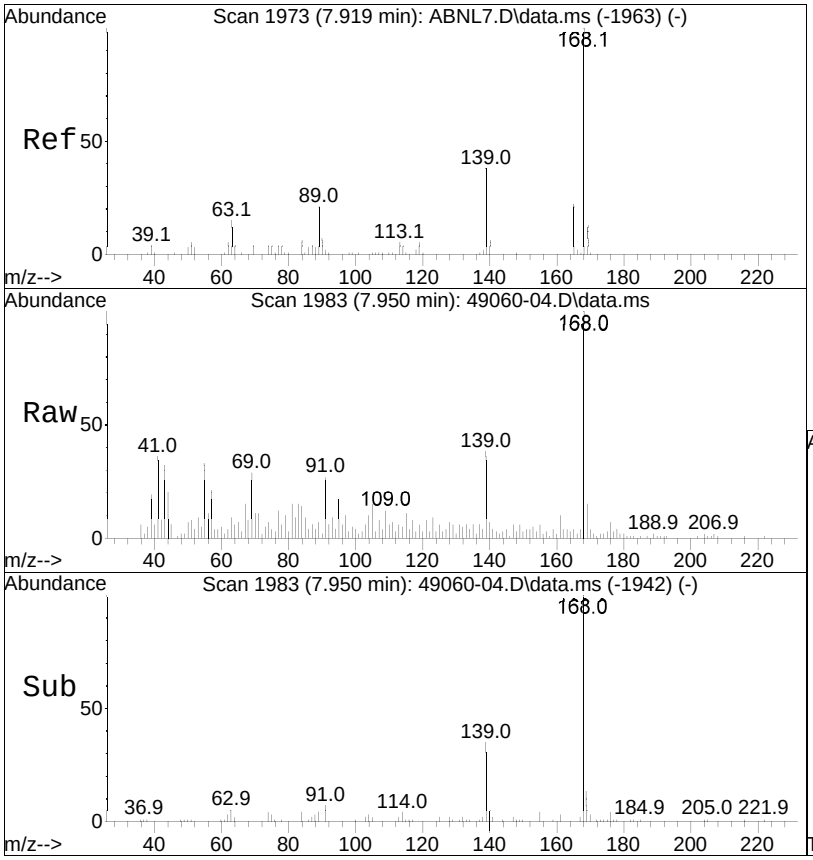


#64
Acenaphthene
Concen: 0.57 ug/ml
RT: 7.779 min Scan# 1928
Delta R.T. 0.000 min
Lab File: 49060-04.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion:154 Resp: 7202

Ion	Ratio	Lower	Upper
154	100		
153	111.1	93.0	139.4
152	53.2	43.3	64.9

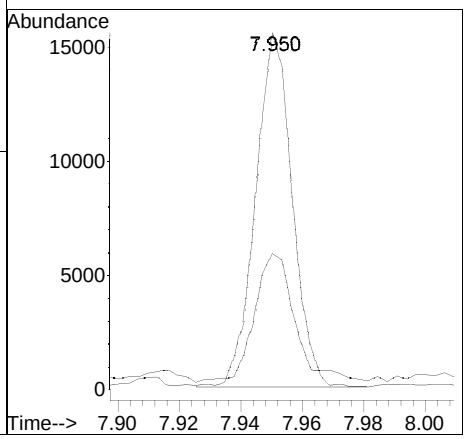


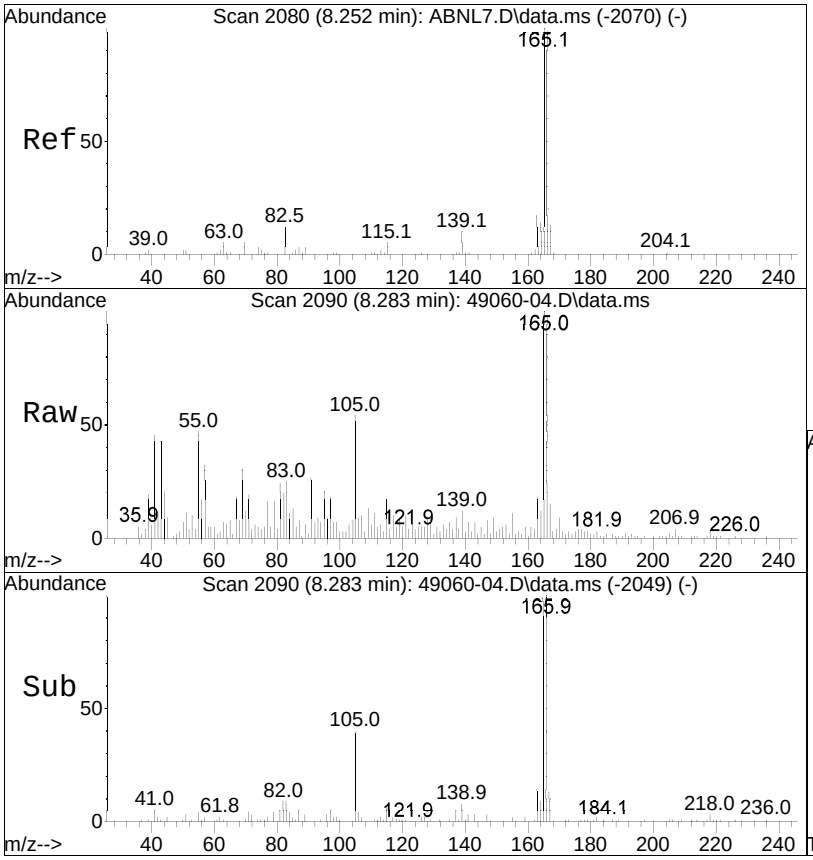


#66
Dibenzofuran
Concen: 0.66 ug/ml
RT: 7.950 min Scan# 1983
Delta R.T. 0.003 min
Lab File: 49060-04.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion:168 Resp: 12667

Ion	Ratio	Lower	Upper
168	100		
139	40.4	32.3	48.5

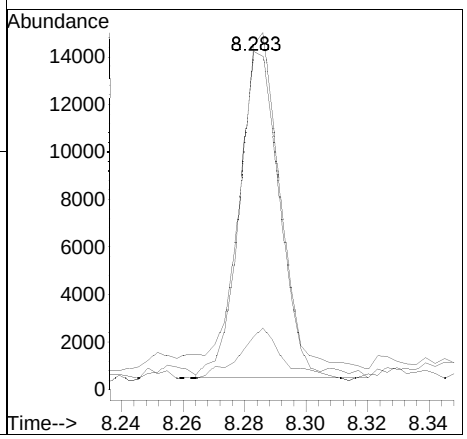


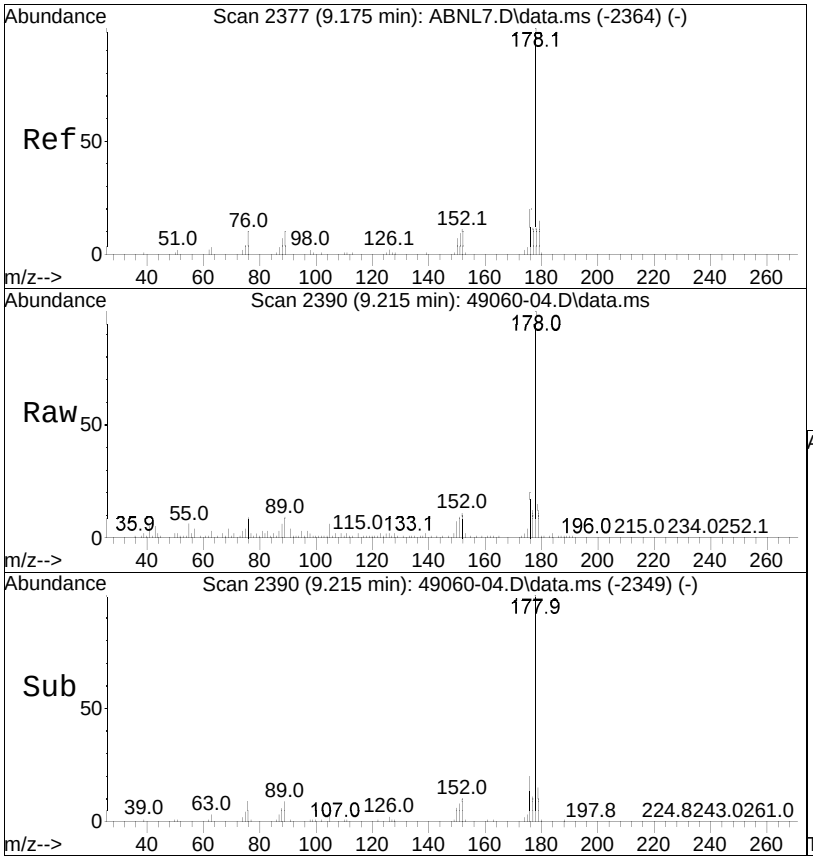


#72
Fluorene
Concen: 0.86 ug/ml
RT: 8.283 min Scan# 2090
Delta R.T. 0.003 min
Lab File: 49060-04.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion:166 Resp: 12592

Ion	Ratio	Lower	Upper
166	100		
165	102.5	80.0	120.0
167	17.2	10.7	16.1#

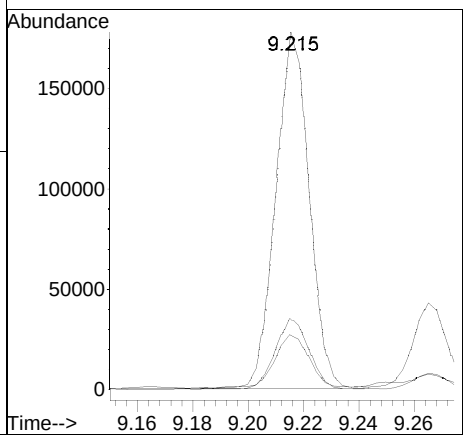


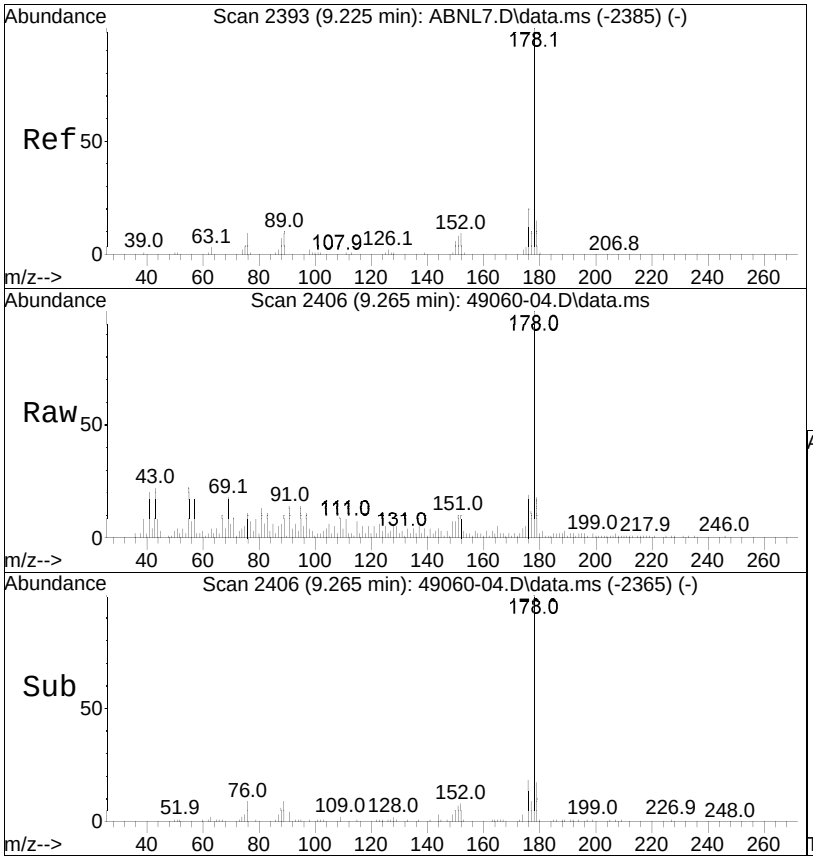


#88
Phenanthrene
Concen: 5.94 ug/ml
RT: 9.215 min Scan# 2390
Delta R.T. 0.003 min
Lab File: 49060-04.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion:178 Resp: 147250

Ion	Ratio	Lower	Upper
178	100		
179	15.8	12.3	18.5
176	19.8	15.4	23.2

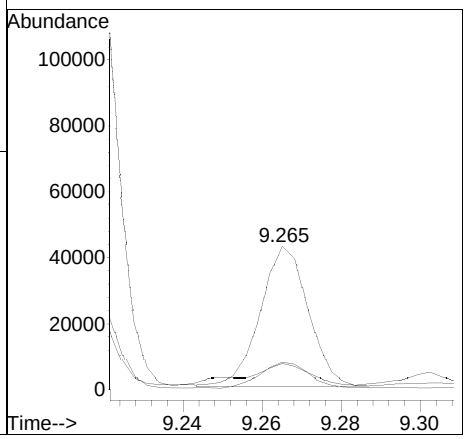


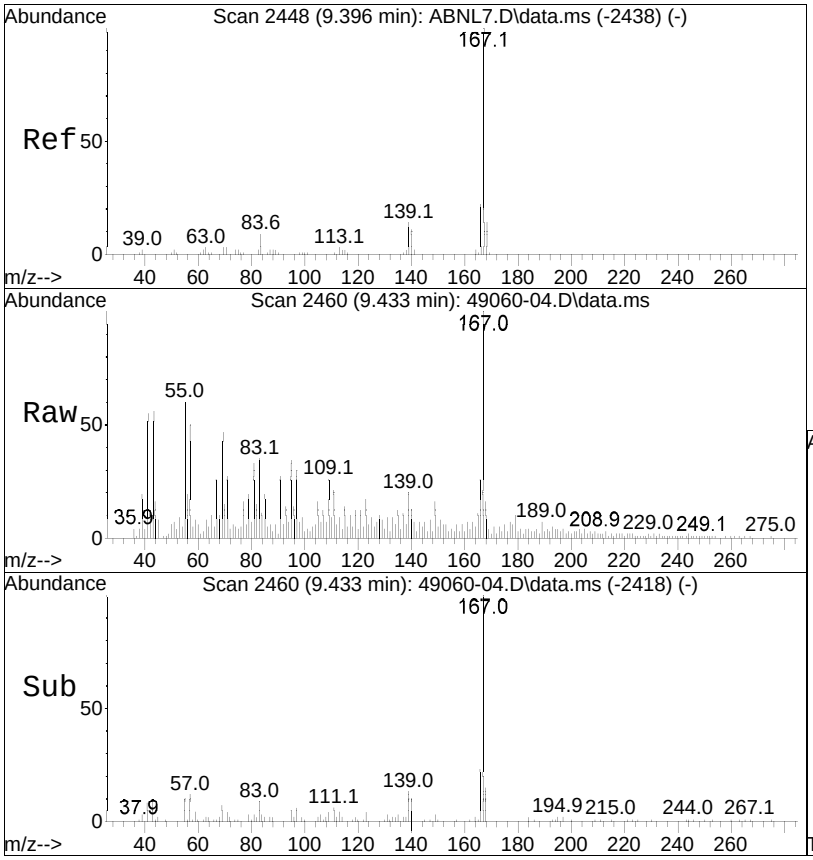


#89
Anthracene
Concen: 1.47 ug/ml
RT: 9.265 min Scan# 2406
Delta R.T. 0.003 min
Lab File: 49060-04.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion:178 Resp: 35608

Ion	Ratio	Lower	Upper
178	100		
179	19.7	12.2	18.2#
176	18.5	15.1	22.7

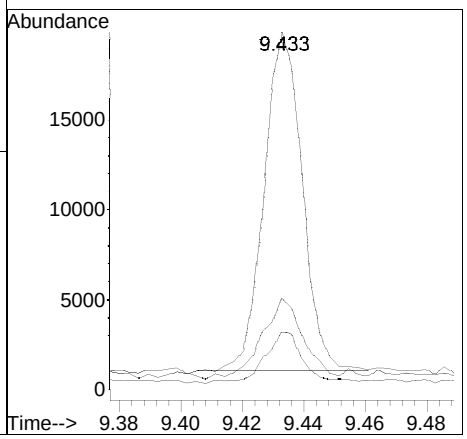


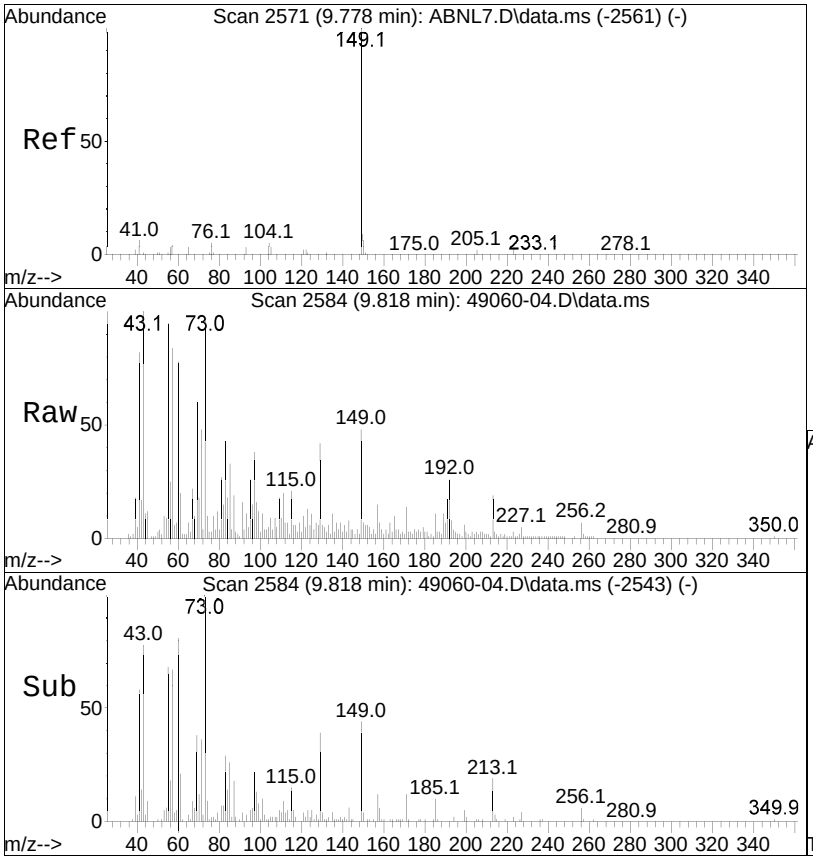


#90
Carbazole
Concen: 0.70 ug/ml
RT: 9.433 min Scan# 2460
Delta R.T. 0.006 min
Lab File: 49060-04.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion:167 Resp: 16212

Ion	Ratio	Lower	Upper
167	100		
168	16.0	10.8	16.2
166	26.0	17.7	26.5

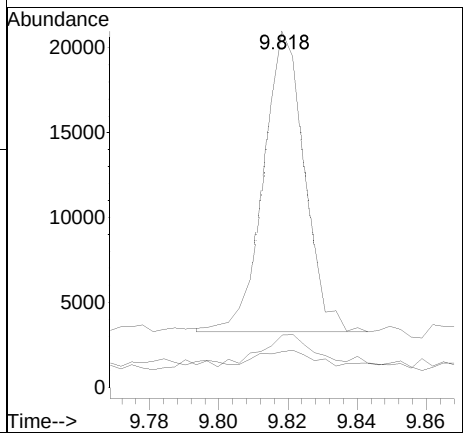


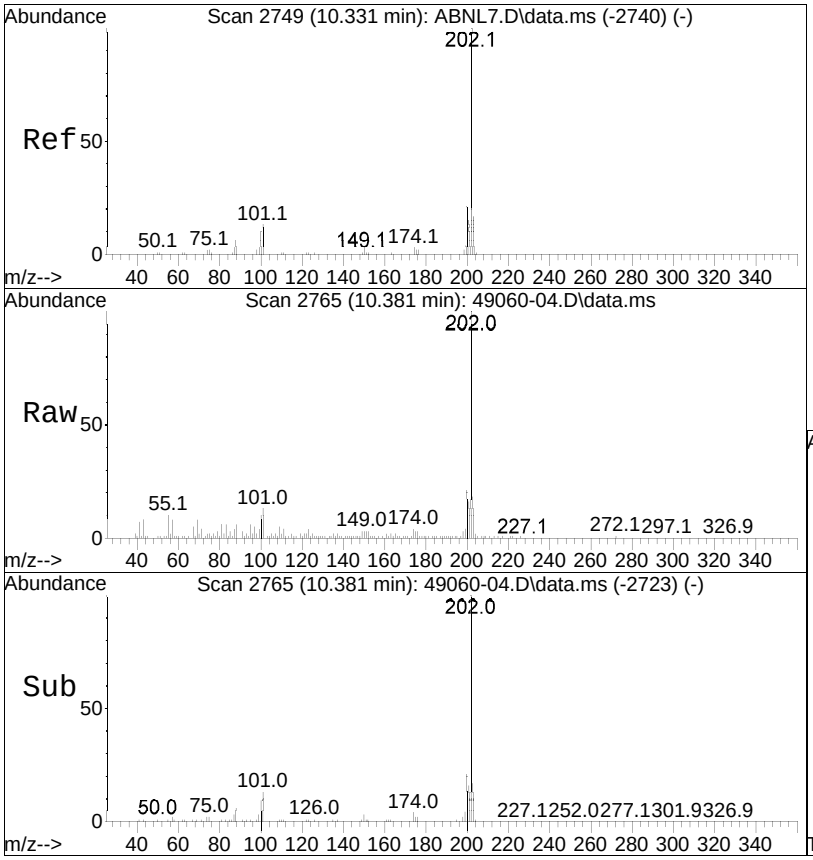


#91
Di-n-butylphthalate
Concen: 0.55 ug/ml
RT: 9.818 min Scan# 2584
Delta R.T. 0.003 min
Lab File: 49060-04.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion:149 Resp: 14583

Ion	Ratio	Lower	Upper
149	100		
150	14.9	7.3	10.9#
104	0.0	4.0	6.0#

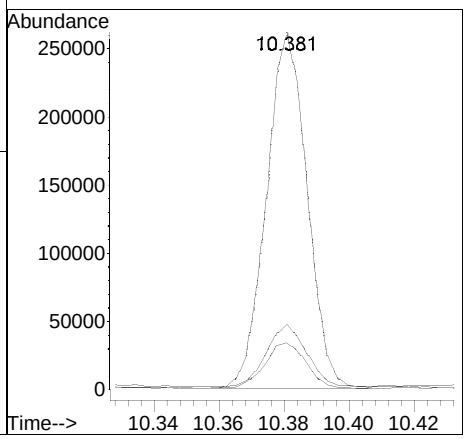


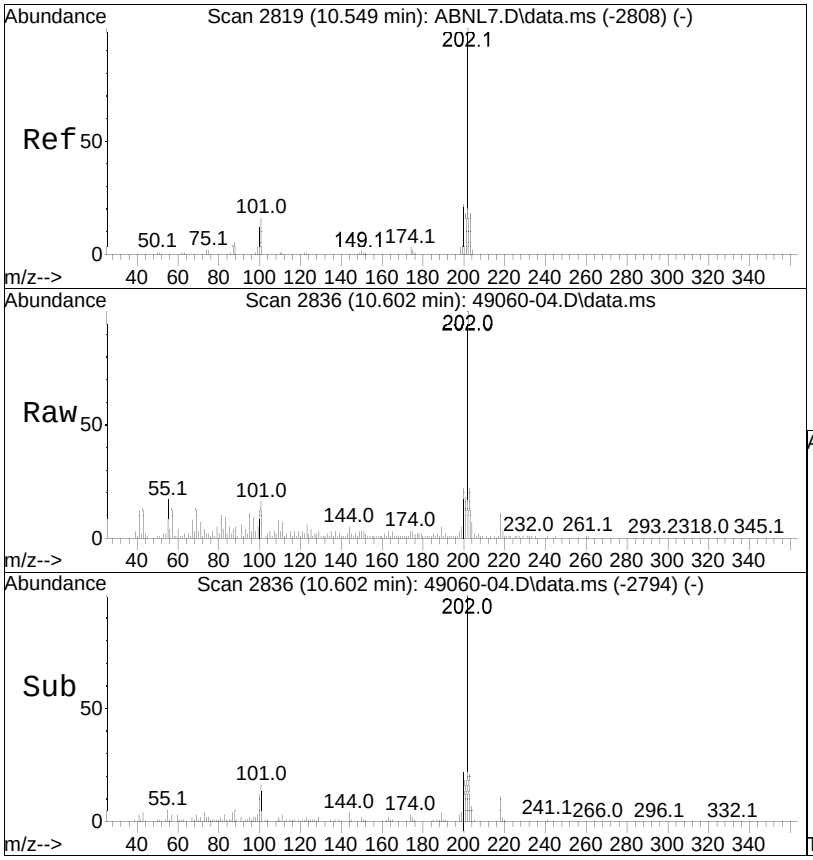


#92
Fluoranthene
Concen: 9.05 ug/ml
RT: 10.381 min Scan# 2765
Delta R.T. 0.006 min
Lab File: 49060-04.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion:202 Resp: 223600

Ion	Ratio	Lower	Upper
202	100		
101	13.2	11.2	16.8
203	17.4	13.7	20.5

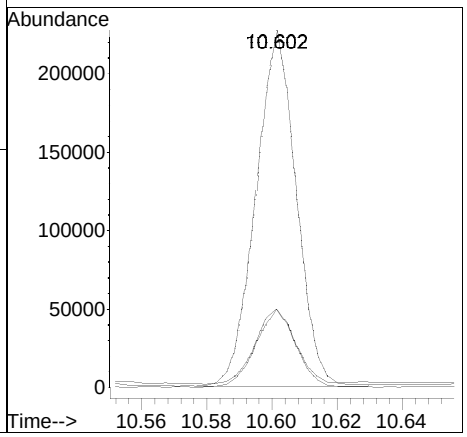


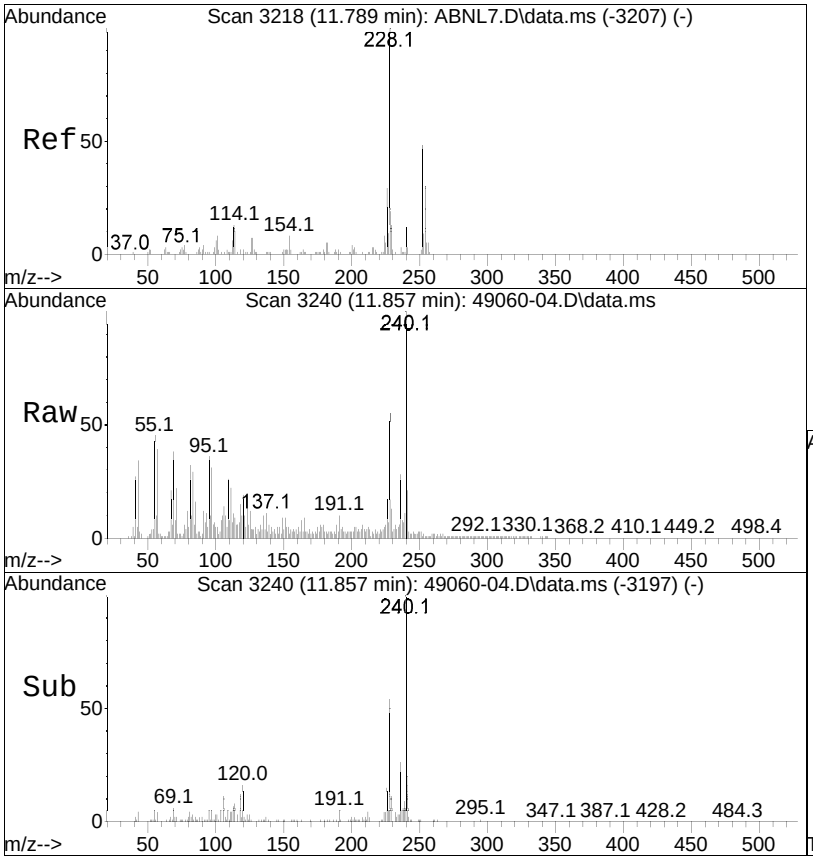


#94
Pyrene
Concen: 7.34 ug/ml
RT: 10.602 min Scan# 2836
Delta R.T. 0.006 min
Lab File: 49060-04.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion:202 Resp: 191858

Ion	Ratio	Lower	Upper
202	100		
200	21.5	16.9	25.3
203	21.2	14.3	21.5

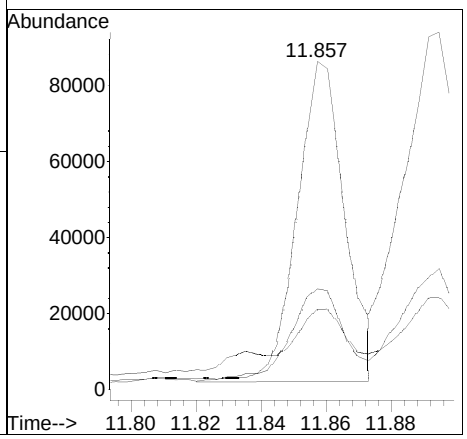


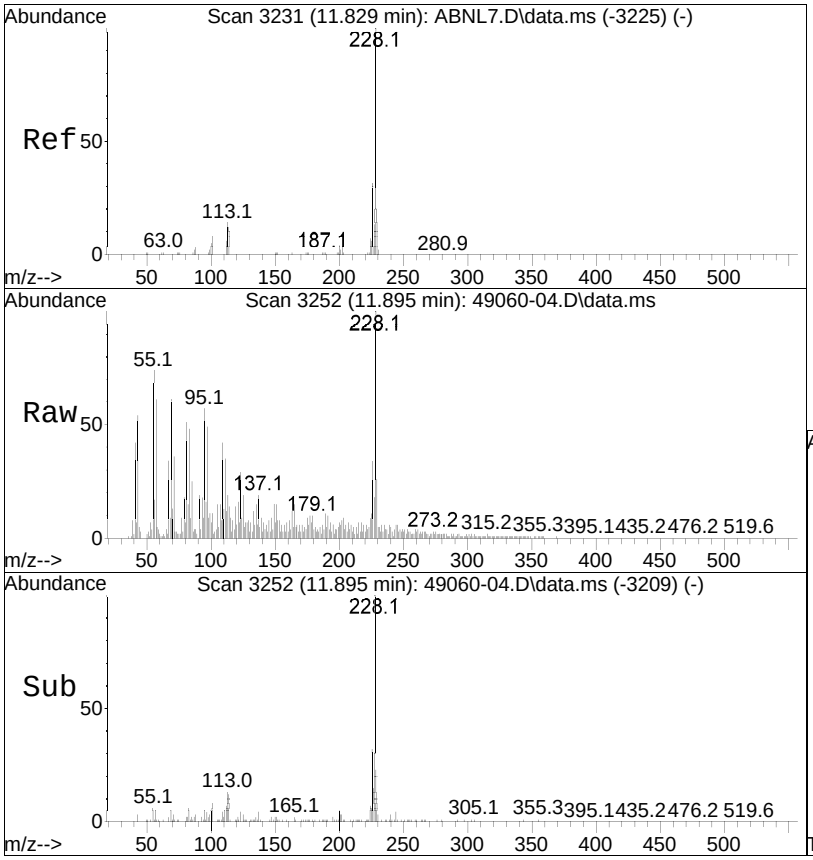


#104
Benzo(a)anthracene
Concen: 4.08 ug/ml
RT: 11.857 min Scan# 3240
Delta R.T. 0.009 min
Lab File: 49060-04.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion:228 Resp: 85399

Ion	Ratio	Lower	Upper
228	100		
226	31.7	22.6	34.0
229	22.3	15.8	23.6

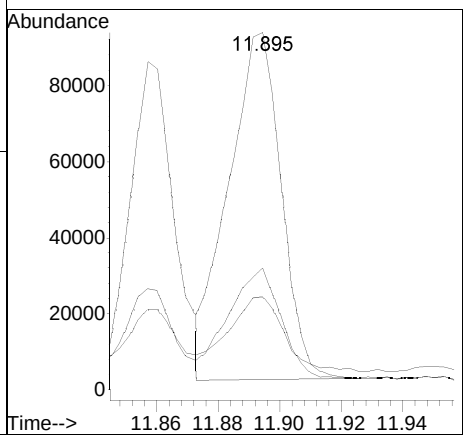


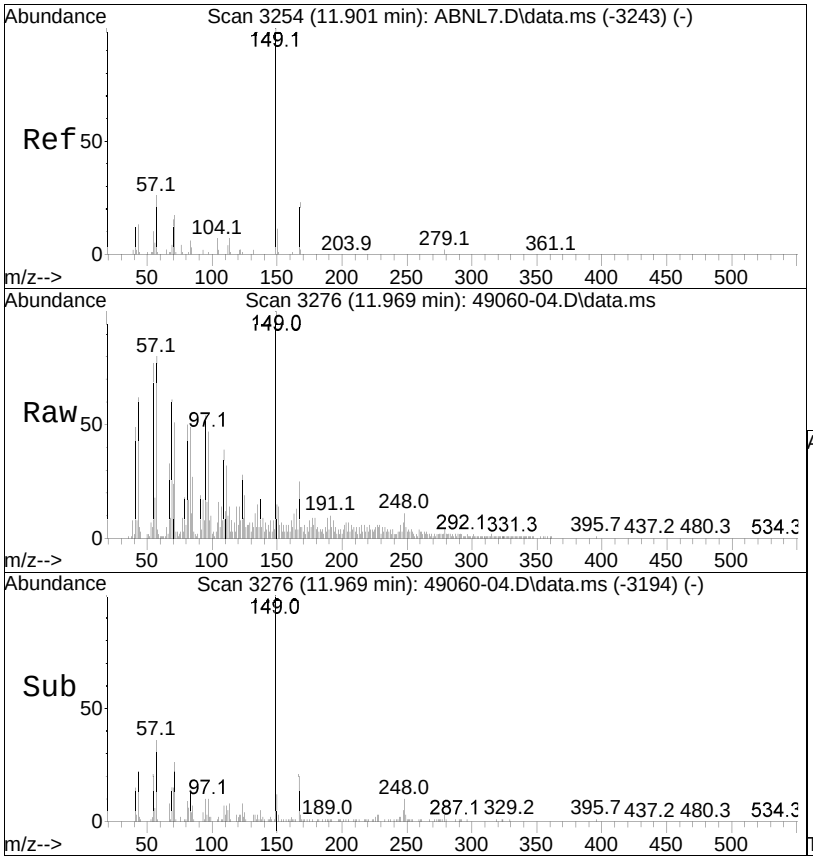


#106
Chrysene
Concen: 5.38 ug/ml
RT: 11.895 min Scan# 3252
Delta R.T. 0.009 min
Lab File: 49060-04.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion:228 Resp: 108823

Ion	Ratio	Lower	Upper
228	100		
226	32.0	24.7	37.1
229	22.4	15.5	23.3

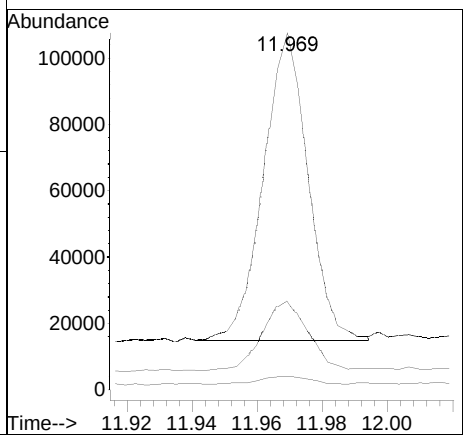


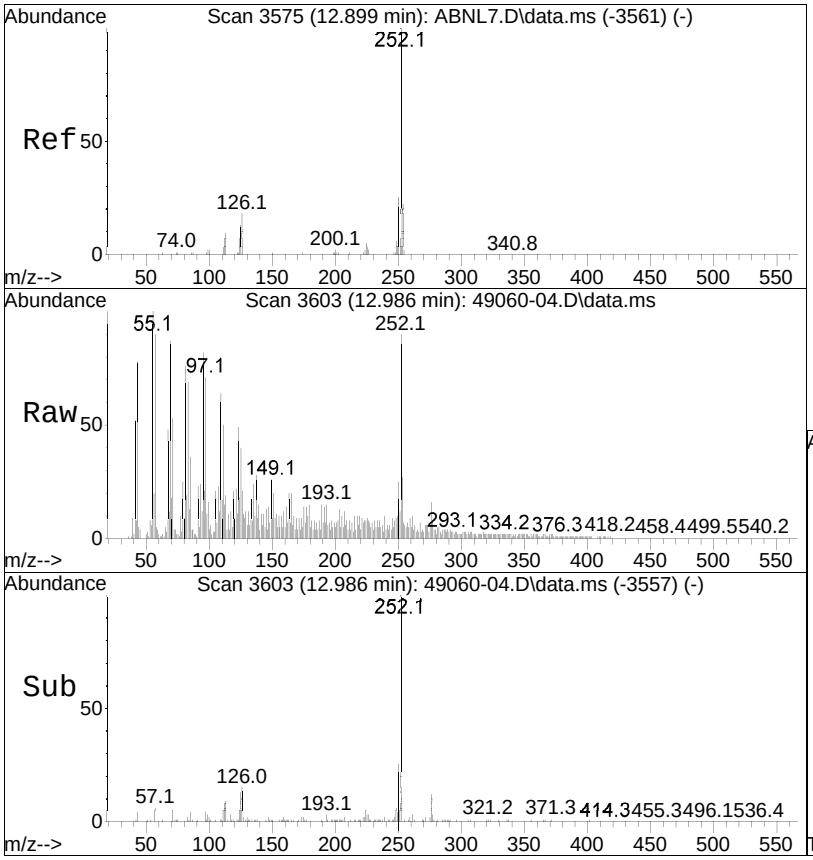


#107
Bis(2-ethylhexyl)phthalate
Concen: 6.73 ug/ml
RT: 11.969 min Scan# 3276
Delta R.T. 0.006 min
Lab File: 49060-04.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion:149 Resp: 87422

Ion	Ratio	Lower	Upper
149	100		
167	23.4	18.4	27.6
279	2.9	1.7	2.5#

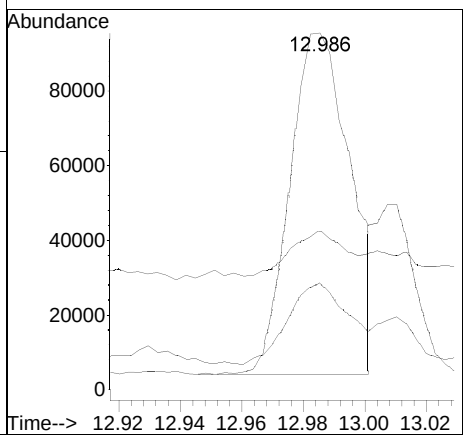


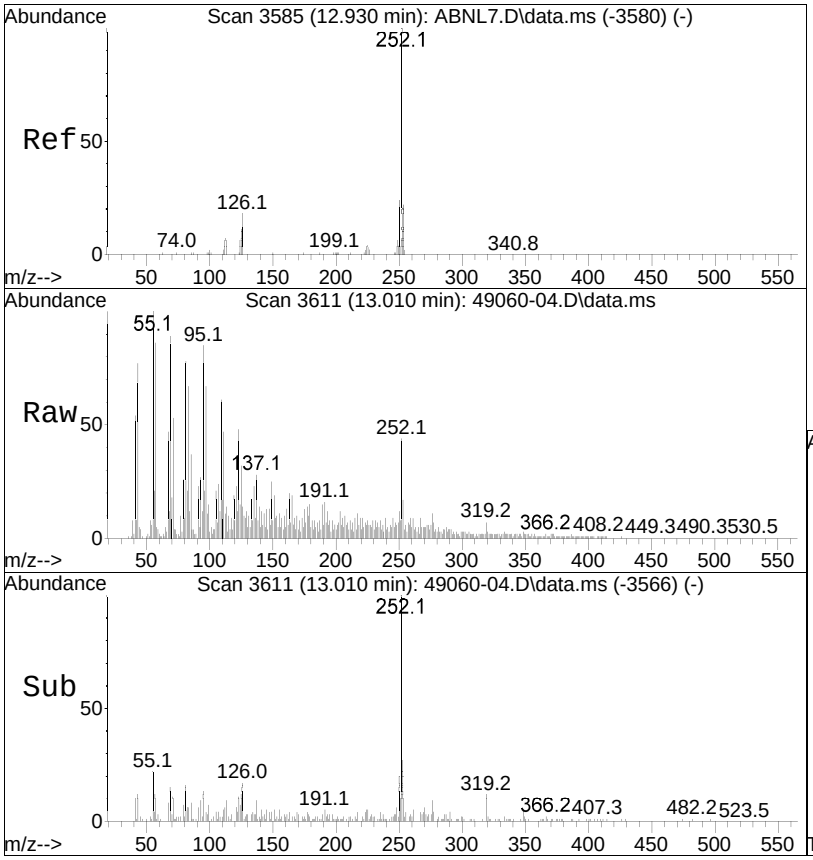


#109
Benzo(b)fluoranthene
Concen: 6.72 ug/ml
RT: 12.986 min Scan# 3603
Delta R.T. 0.019 min
Lab File: 49060-04.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion:252 Resp: 124972

Ion	Ratio	Lower	Upper
252	100		
125	11.6	11.3	16.9
253	23.7	17.8	26.8

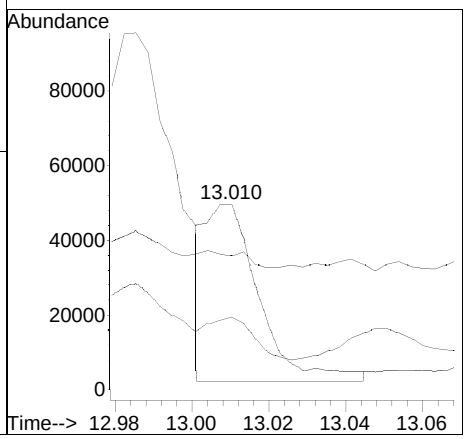


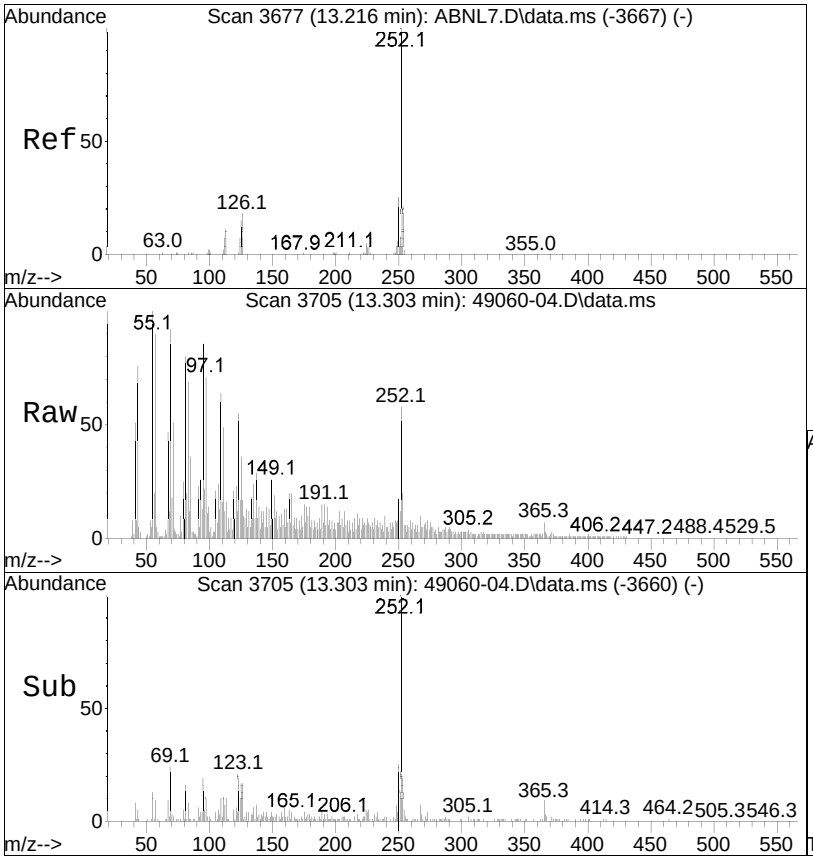


#110
Benzo(k)fluoranthene
Concen: 2.42 ug/ml M3
RT: 13.010 min Scan# 3611
Delta R.T. 0.016 min
Lab File: 49060-04.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion:252 Resp: 46423

Ion	Ratio	Lower	Upper
252	100		
125	31.1	11.5	17.3#
253	63.9	17.6	26.4#

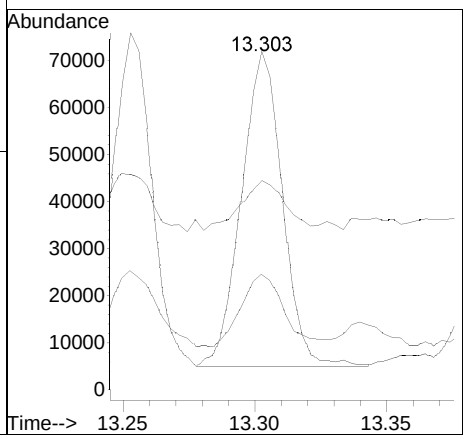


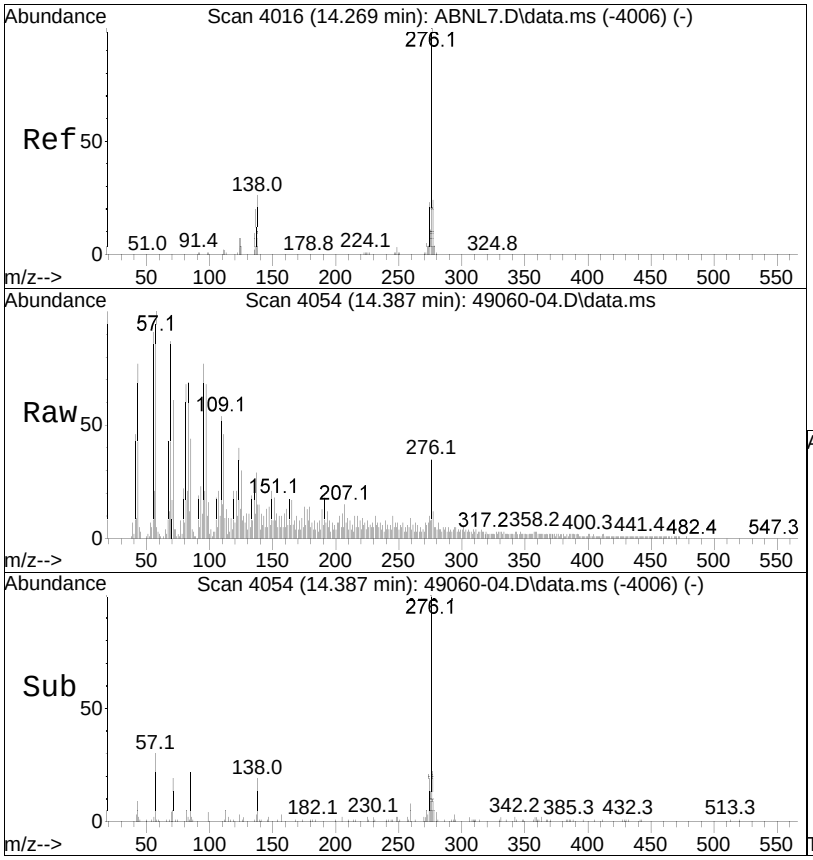


#111
Benzo(a)pyrene
Concen: 3.99 ug/ml
RT: 13.303 min Scan# 3705
Delta R.T. 0.016 min
Lab File: 49060-04.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion:252 Resp: 72260

Ion	Ratio	Lower	Upper
252	100		
125	19.0	12.6	18.8#
253	25.5	17.5	26.3

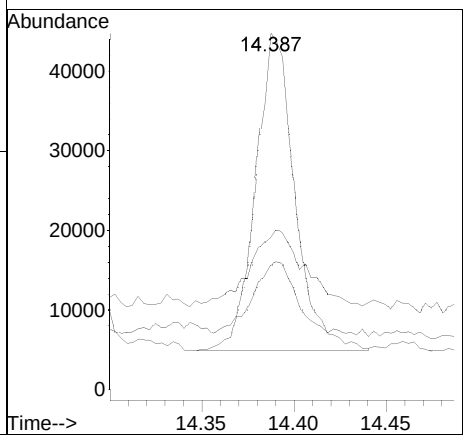


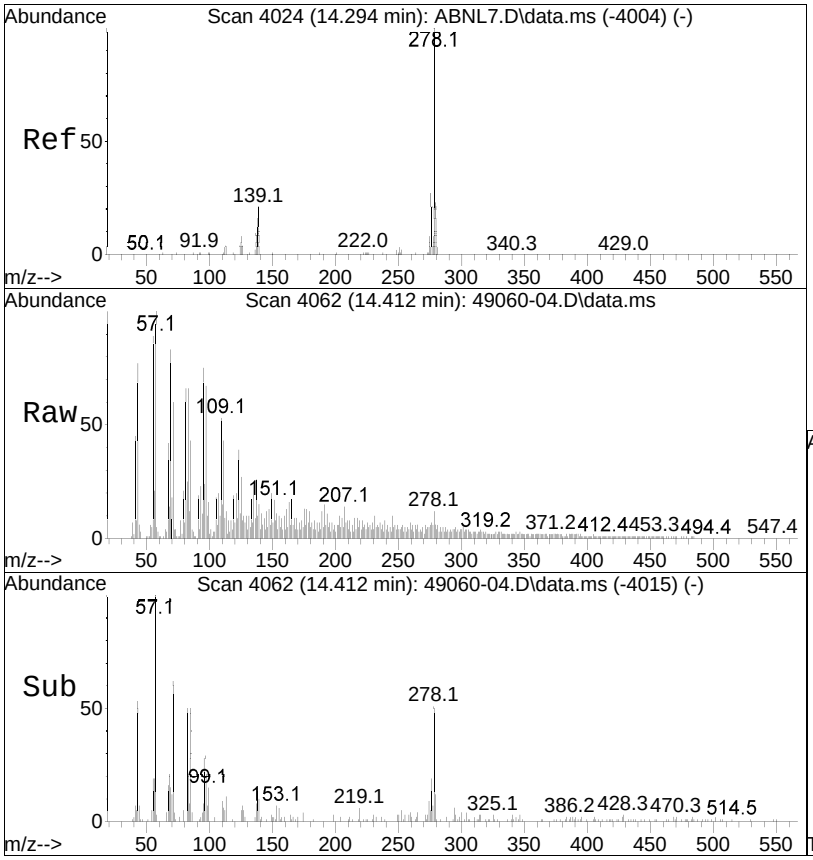


#113
Indeno(1,2,3-cd)pyrene
Concen: 3.40 ug/mL
RT: 14.387 min Scan# 4054
Delta R.T. 0.025 min
Lab File: 49060-04.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion:276 Resp: 58410

Ion	Ratio	Lower	Upper
276	100		
138	33.8	22.1	33.1#
277	27.5	19.0	28.6

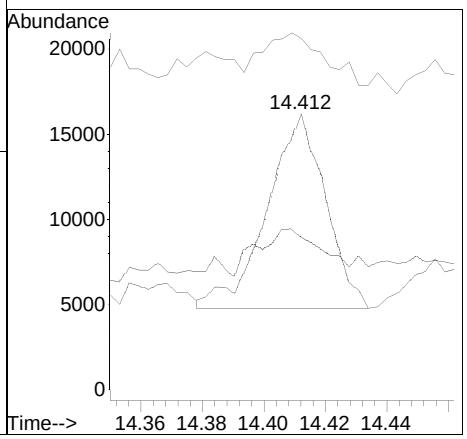


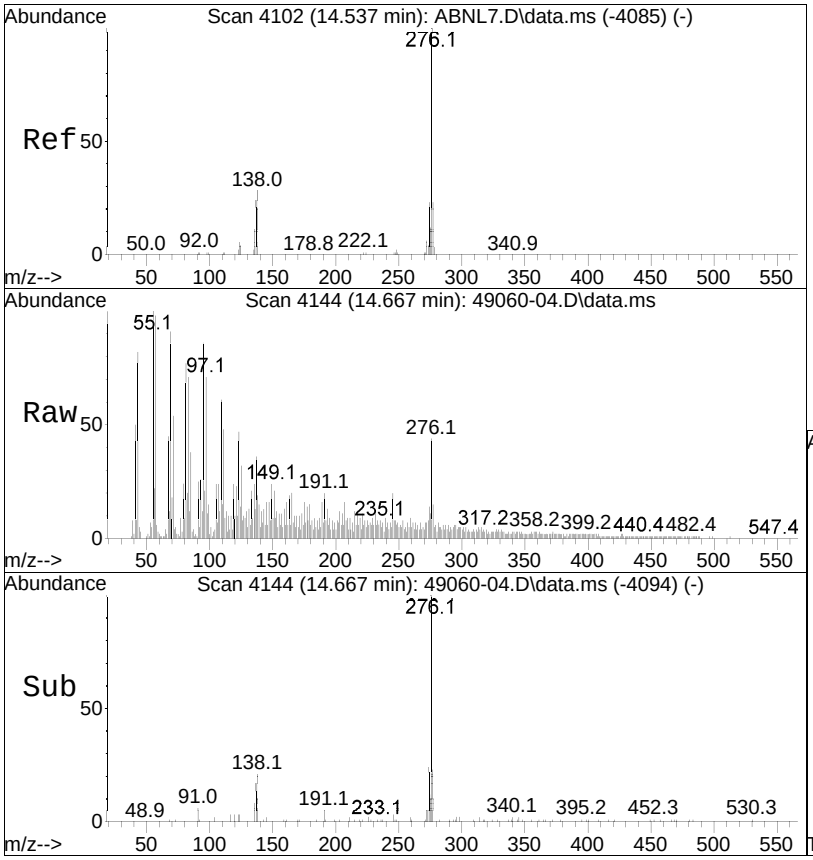


#114
Dibenzo(a,h)anthracene
Concen: 0.86 ug/ml
RT: 14.412 min Scan# 4062
Delta R.T. 0.022 min
Lab File: 49060-04.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion:278 Resp: 14892

Ion	Ratio	Lower	Upper
278	100		
139	29.8	17.8	26.8#
279	26.8	19.2	28.8

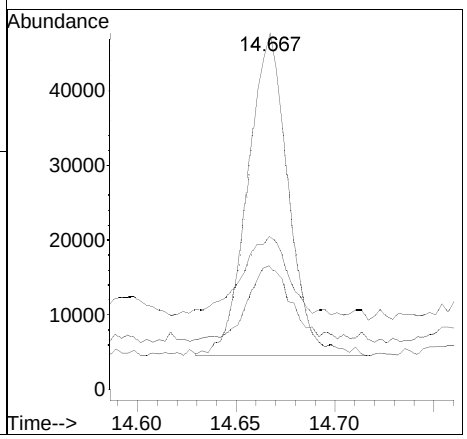




#115
Benzo(ghi)perylene
Concen: 3.51 ug/ml
RT: 14.667 min Scan# 4144
Delta R.T. 0.031 min
Lab File: 49060-04.D
Acq: 07 Dec 2018 01:26 am

Tgt Ion:276 Resp: 60893

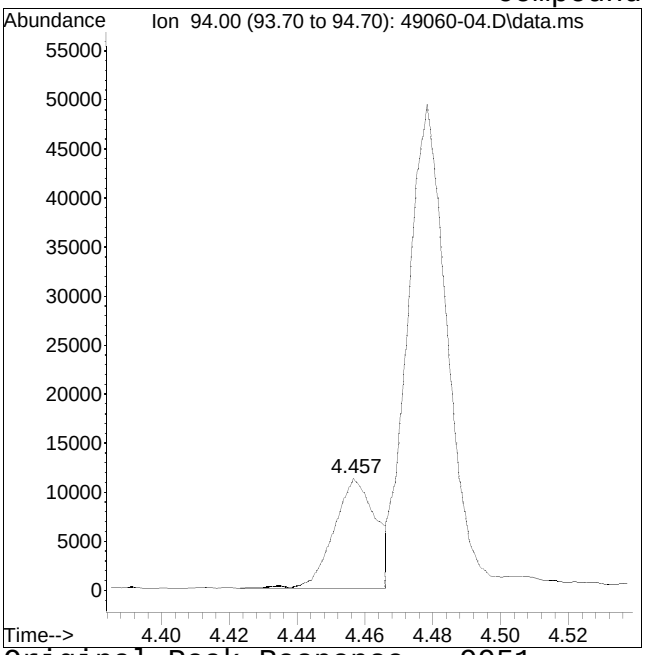
Ion	Ratio	Lower	Upper
276	100		
138	28.3	29.0	43.6#
277	26.1	18.6	27.8



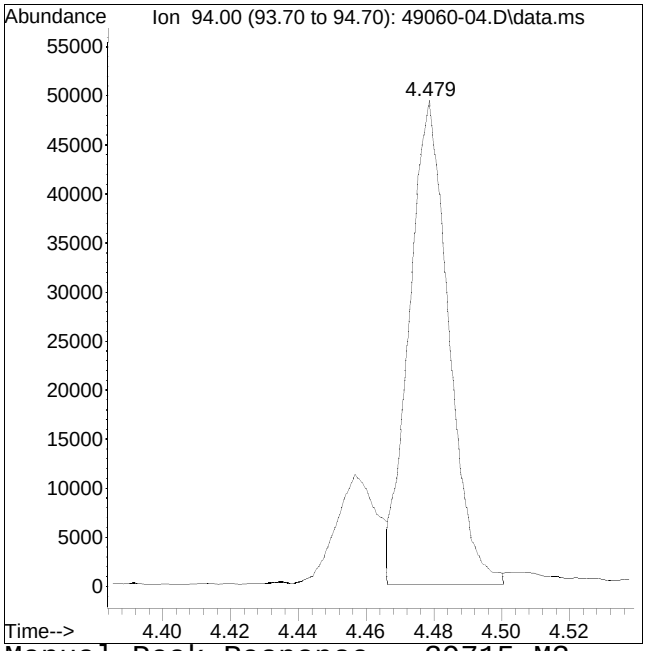
Manual Integration Report

Data Path	: I:\8270\SV112\181206\	QMethod	: FS181205SV112.m
Data File	: 49060-04.D	Operator	: sv112:rc
Date Inj'd	: 12/7/2018 1:26 am	Instrument	: SV112
Sample	: l1849060-04,32,,ny,ask	Quant Date	: 12/7/2018 7:22 am

Compound #8: Phenol



Original Peak Response = 9951



Manual Peak Response = 39715 M3

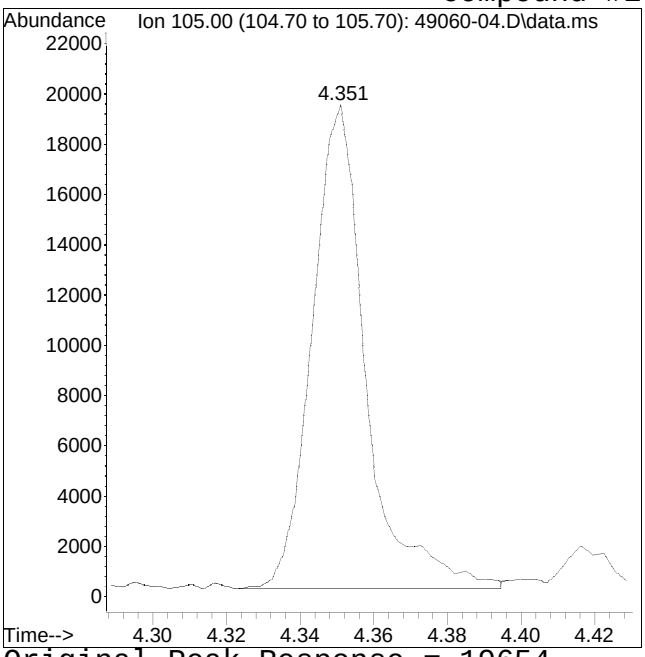
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

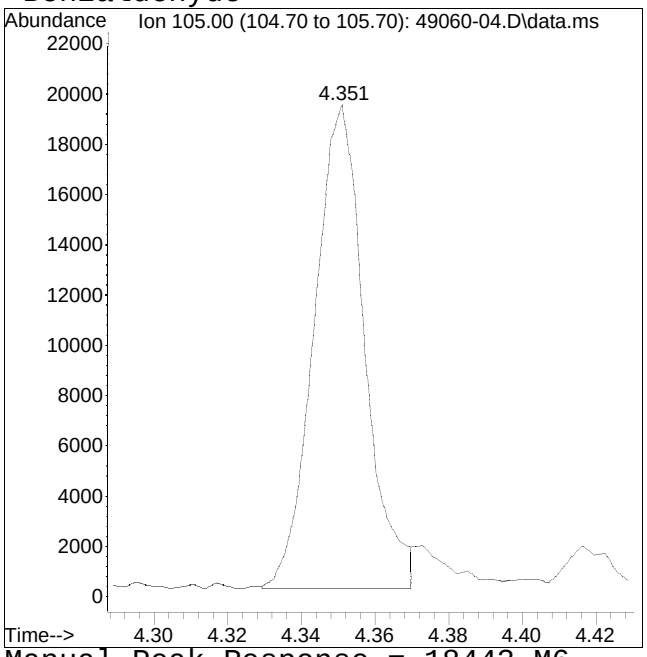
Data Path : I:\8270\SV112\181206\
Data File : 49060-04.D
Date Inj'd : 12/7/2018 1:26 am
Sample : l1849060-04,32,,ny,ask

QMethod : FS181205SV112.m
Operator : sv112:rc
Instrument : SV112
Quant Date : 12/7/2018 7:22 am

Compound #28: Benzaldehyde



Original Peak Response = 19654



Manual Peak Response = 18443 M6

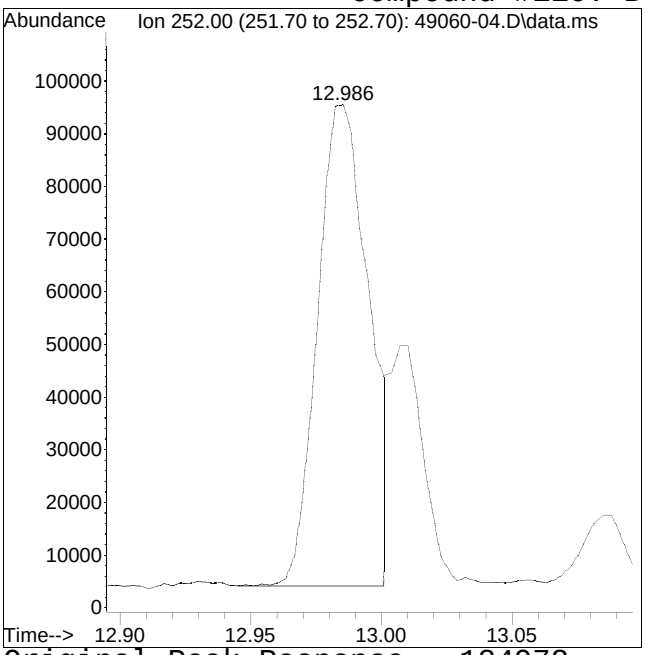
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

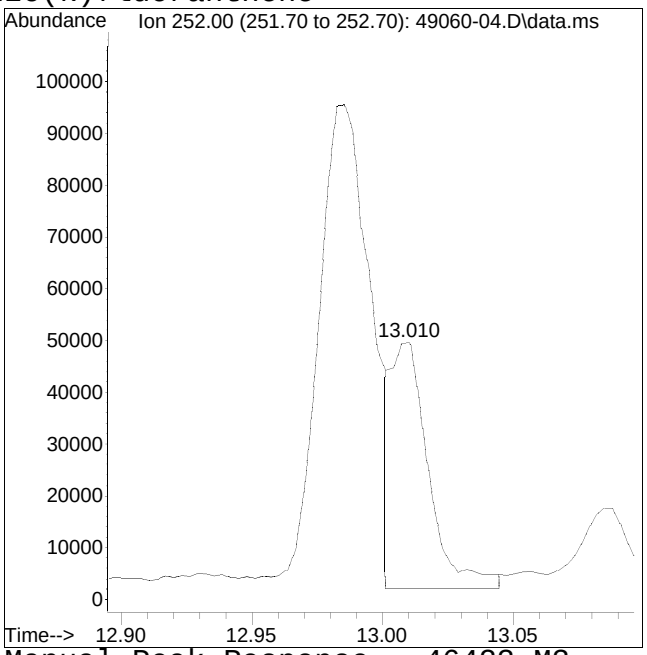
Manual Integration Report

Data Path : I:\8270\SV112\181206\
Data File : 49060-04.D
Date Inj'd : 12/7/2018 1:26 am
Sample : l1849060-04,32,,ny,ask

QMethod : FS181205SV112.m
Operator : sv112:rc
Instrument : SV112
Quant Date : 12/7/2018 7:22 am

Compound #110: Benzo(k)fluoranthene





Original Peak Response = 124972 Manual Peak Response = 46423 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181206\
Data File : 49060-05.D
Acq On : 07 Dec 2018 01:51 am
Operator : sv112:rc
Sample : l1849060-05,32,,ny,ask
Misc : wg1186484,wg1184852,ical15308
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 07 08:13:44 2018
Quant Method : I:\8270\SV112\181206\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 07 07:20:08 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\181206\ABN1206.D
: 2 - I:\8270\SV112\181206\ADP1206.D
: 3 - I:\8270\SV112\181206\AP91206.D
Sub List : 8270TCL_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.789	152	227410	40.000	ug/ml	0.00
Standard Area 1 = 160010			Recovery = 142.12%			
27) IS2_1,4-Dichlorobenzen...	4.789	152	227410	40.000	ug/ml	0.00
Standard Area 3 = 165516			Recovery = 137.39%			
34) IS1_Naphthalene-d8	6.036	136	953384	40.000	ug/ml	0.00
Standard Area 1 = 659812			Recovery = 144.49%			
54) IS2_Naphthalene-d8	6.036	136	953384	40.000	ug/ml	0.00
Standard Area 3 = 688464			Recovery = 138.48%			
62) IS1_Acenaphthene-d10	7.754	164	455924	40.000	ug/ml	0.00
Standard Area 1 = 337355			Recovery = 135.15%			
82) IS2_Acenaphthene-d10	7.754	164	455924	40.000	ug/ml	0.01
Standard Area 3 = 340011			Recovery = 134.09%			
85) IS3_Acenaphthene-d10	7.754	164	455924	40.000	ug/ml	0.01
Standard Area 2 = 332171			Recovery = 137.26%			
87) IS1_Phenanthrene-d10	9.197	188	857161	40.000	ug/ml	0.00
Standard Area 1 = 577618			Recovery = 148.40%			
99) IS3_Phenanthrene-d10	9.197	188	857161	40.000	ug/ml	0.01
Standard Area 2 = 608062			Recovery = 140.97%			
103) IS1_Chrysene-d12	11.879	240	674426	40.000	ug/ml	0.02
Standard Area 1 = 540685			Recovery = 124.74%			
112) IS1_Perylene-d12	13.380	264	691785	40.000	ug/ml	0.04
Standard Area 1 = 528741			Recovery = 130.84%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.515	112	225904	28.258	ug/ml	0.02
Spiked Amount 50.000	Range 15 - 110		Recovery = 56.52%			
7) Phenol-d6	4.472	99	274882	28.332	ug/ml	0.02
Spiked Amount 50.000	Range 15 - 110		Recovery = 56.66%			
19) Nitrobenzene-d5	5.333	82	108644	12.850	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 51.40%			
45) 2-Fluorobiphenyl	7.111	172	287329	16.487	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 65.95%			
78) 2,4,6-Tribromophenol	8.522	330	71143	38.385	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 76.77%			
95) 4-Terphenyl-d14	10.797	244	235887	12.844	ug/ml	0.01
Spiked Amount 25.000	Range 30 - 130		Recovery = 51.38%			

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181206\
Data File : 49060-05.D
Acq On : 07 Dec 2018 01:51 am
Operator : sv112:rc
Sample : l1849060-05,32,,ny,ask
Misc : wg1186484,wg1184852,ical15308
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 07 08:13:44 2018
Quant Method : I:\8270\SV112\181206\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 07 07:20:08 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\181206\ABN1206.D
: 2 - I:\8270\SV112\181206\ADP1206.D
: 3 - I:\8270\SV112\181206\AP91206.D
Sub List : 8270TCL_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	4.485	94	17598	1.558	ug/ml#	19
9) Bis(2-chloroethyl)ether	0.000		0	N.D.	d	
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.	d	
16) Hexachloroethane	0.000		0	N.D.	d	
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	5.234	108	10821	1.360	ug/ml	89
20) Nitrobenzene	0.000		0	N.D.	d	
21) Isophorone	0.000		0	N.D.	d	
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	5.747	107	2606	0.326	ug/ml	90
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	4.351	105	30377	4.520	ug/ml	83
29) Acetophenone	5.190	105	33105	2.941	ug/ml	97
35) Naphthalene	6.054	128	70430	2.731	ug/ml	97
37) 4-Chloroaniline	0.000		0	N.D.	d	
38) Hexachlorobutadiene	0.000		0	N.D.		
39) p-Chloro-m-cresol	0.000		0	N.D.	d	
40) 2-Methylnaphthalene	6.738	142	51616	3.080	ug/ml	99
42) Hexachlorocyclopentadiene	0.000		0	N.D.		
43) 2,4,6-Trichlorophenol	0.000		0	N.D.		
44) 2,4,5-Trichlorophenol	0.000		0	N.D.		
46) 2-Chloronaphthalene	0.000		0	N.D.	d	
47) 2-Nitroaniline	0.000		0	N.D.	d	
50) Dimethyl phthalate	0.000		0	N.D.	d	
51) Acenaphthylene	7.611	152	60794	2.549	ug/ml	97
52) 2,6-Dinitrotoluene	0.000		0	N.D.		
59) Caprolactam	0.000		0	N.D.	d	
60) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.	d	
61) Biphenyl	7.201	154	13798	0.751	ug/ml	95
63) 3-Nitroaniline	0.000		0	N.D.	d	
64) Acenaphthene	7.782	154	6751M1	0.504	ug/ml	
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	7.953	168	19509	0.955	ug/ml	95

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181206\
Data File : 49060-05.D
Acq On : 07 Dec 2018 01:51 am
Operator : sv112:rc
Sample : l1849060-05,32,,ny,ask
Misc : wg1186484,wg1184852,ical15308
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 07 08:13:44 2018
Quant Method : I:\8270\SV112\181206\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 07 07:20:08 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\181206\ABN1206.D
: 2 - I:\8270\SV112\181206\ADP1206.D
: 3 - I:\8270\SV112\181206\AP91206.D
Sub List : 8270TCL_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
67) 2,4-Dinitrotoluene	0.000		0	N.D.		
68) 4-Nitrophenol	0.000		0	N.D.	d	
70) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
71) Diethyl phthalate	0.000		0	N.D.	d	
72) Fluorene	8.286	166	13531M1	0.867	ug/ml	
73) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
74) 4-Nitroaniline	0.000		0	N.D.	d	
75) 4,6-Dinitro-o-cresol	0.000		0	N.D.	d	
76) NDPA/DPA	0.000		0	N.D.	d	
79) 4-Bromophenyl phenyl e...	0.000		0	N.D.		
80) Hexachlorobenzene	0.000		0	N.D.	d	
81) Pentachlorophenol	0.000		0	N.D.	d	
86) Atrazine	0.000		0	N.D.	d	
88) Phenanthrene	9.222	178	158877	6.202	ug/ml	99
89) Anthracene	9.268	178	74984	3.007	ug/ml#	94
90) Carbazole	9.439	167	29092	1.224	ug/ml	95
91) Di-n-butylphthalate	9.824	149	279393	10.169	ug/ml	99
92) Fluoranthene	10.387	202	233907	9.167	ug/ml	97
94) Pyrene	10.608	202	230073	8.526	ug/ml	96
96) Butyl benzyl phthalate	11.332	149	713725	55.544	ug/ml	93
104) Benzo(a)anthracene	11.867	228	114388	5.296	ug/ml#	76
105) 3,3'-Dichlorobenzidine	0.000		0	N.D.	d	
106) Chrysene	11.904	228	135008	6.467	ug/ml	96
107) Bis(2-ethylhexyl)phtha...	11.975	149	511491	29.905	ug/ml	98
108) Di-n-octylphthalate	0.000		0	N.D.	d	
109) Benzo(b)fluoranthene	13.001	252	218051M6	11.350	ug/ml	
110) Benzo(k)fluoranthene	13.023	252	58949M3	2.972	ug/ml	
111) Benzo(a)pyrene	13.318	252	114445	6.115	ug/ml	97
113) Indeno(1,2,3-cd)pyrene	14.412	276	148286	7.951	ug/mL	97
114) Dibenzo(a,h)anthracene	14.431	278	31987	1.696	ug/ml#	85
115) Benzo(ghi)perylene	14.689	276	196073	10.393	ug/ml#	86

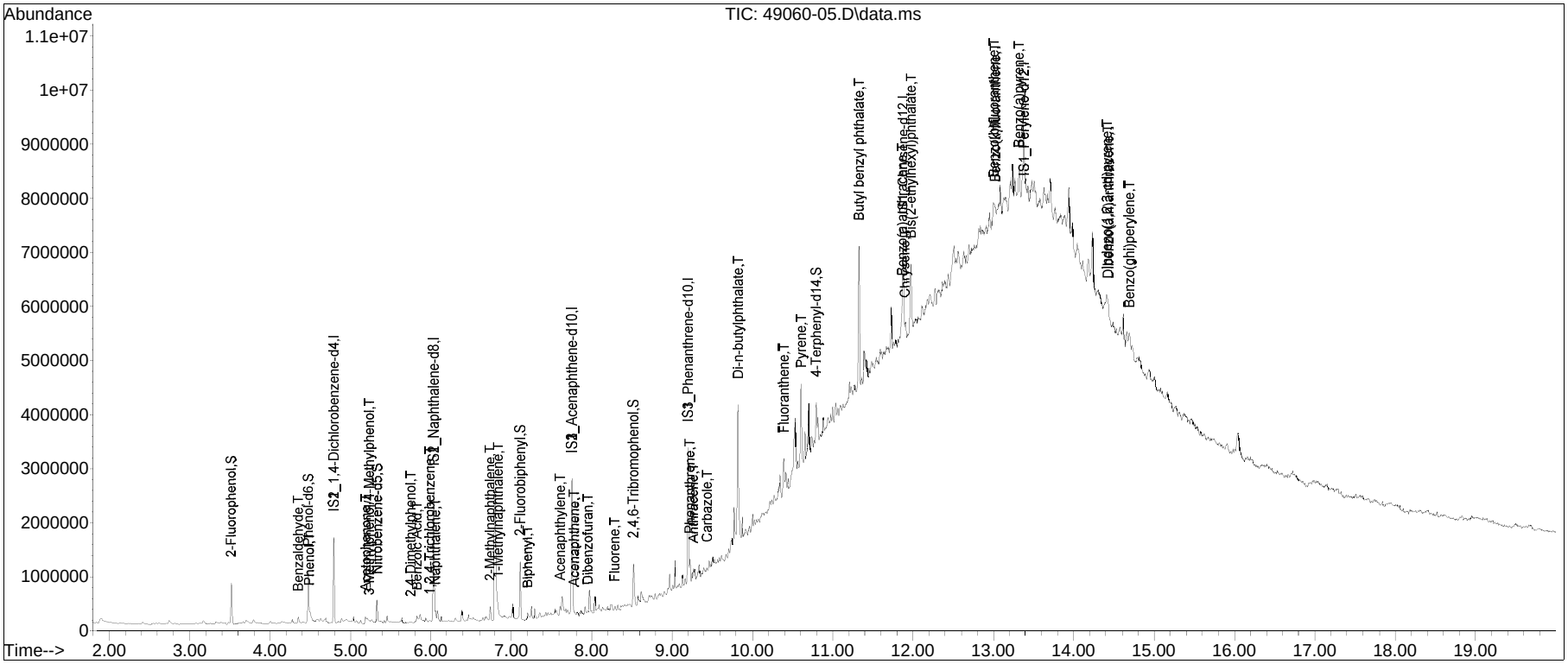
(#) = qualifier out of range (m) = manual integration (+) = signals summed

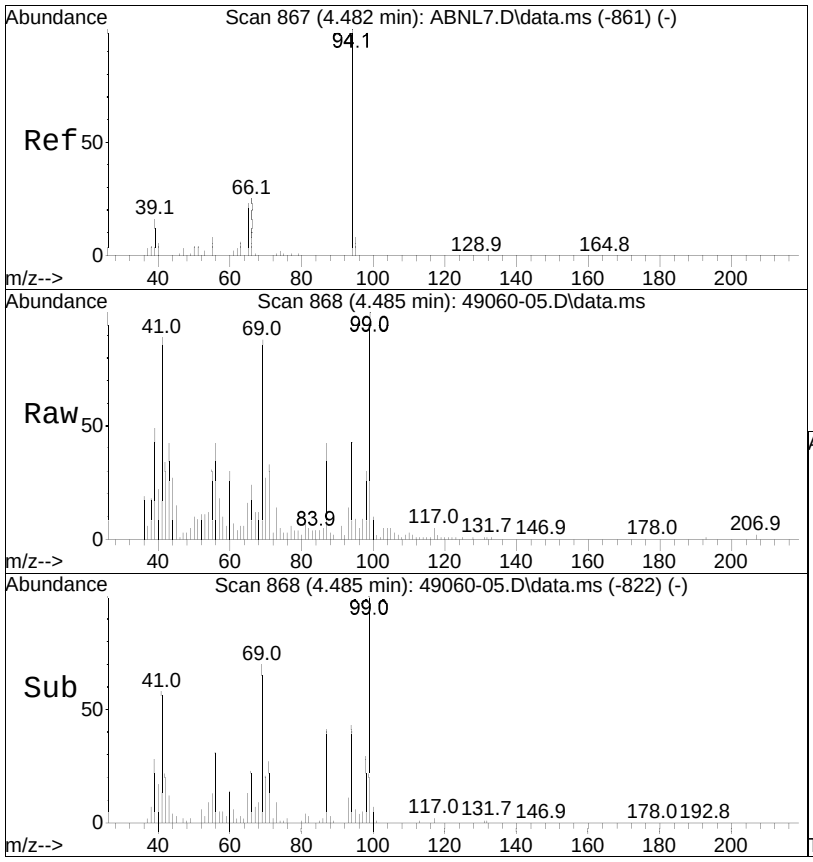
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181206\
Data File : 49060-05.D
Acq On : 07 Dec 2018 01:51 am
Operator : sv112:rc
Sample : l1849060-05,32,,ny,ask
Misc : wg1186484,wg1184852,ical15308
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 07 08:13:44 2018
Quant Method : I:\8270\SV112\181206\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 07 07:20:08 2018
Response via : Initial Calibration

Sub List : 8270TCL_REV1 - TCL/CT/MA\AP91206.D•

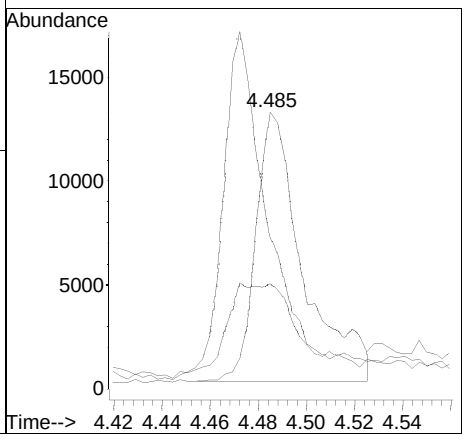


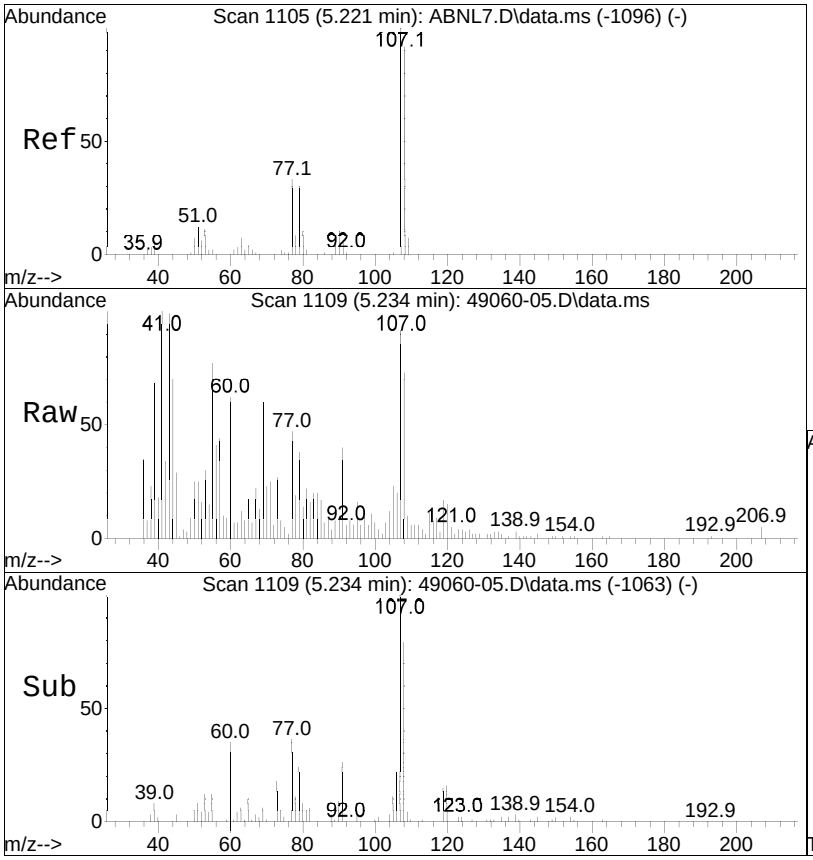


#8
Phenol
Concen: 1.56 ug/ml
RT: 4.485 min Scan# 868
Delta R.T. 0.019 min
Lab File: 49060-05.D
Acq: 07 Dec 2018 01:51 am

Tgt Ion: 94 Resp: 17598

Ion	Ratio	Lower	Upper
94	100		
65	28.0	23.0	34.6
66	125.4	32.1	48.1#

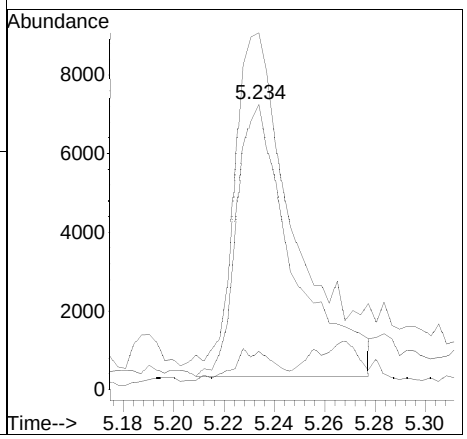


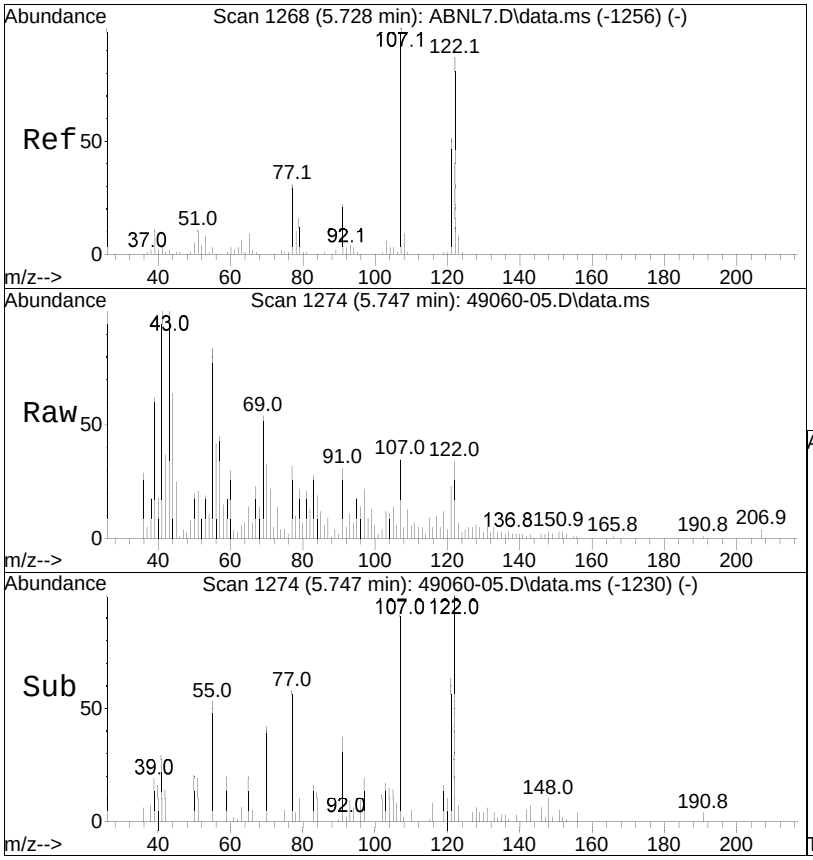


#18
3-Methylphenol/4-Methylphenol
Concen: 1.36 ug/ml
RT: 5.234 min Scan# 1109
Delta R.T. 0.019 min
Lab File: 49060-05.D
Acq: 07 Dec 2018 01:51 am

Tgt Ion:108 Resp: 10821

Ion	Ratio	Lower	Upper
108	100		
107	123.3	88.8	133.2
90	12.8	9.0	13.6

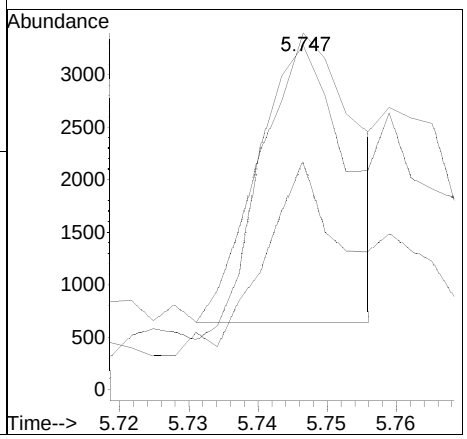


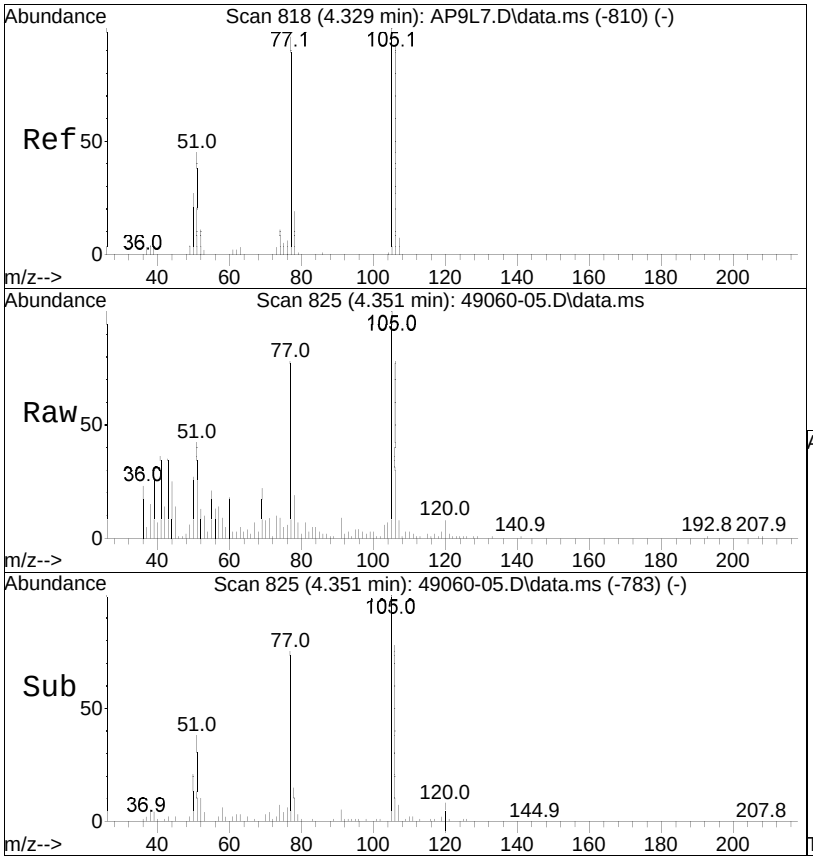


#23
2,4-Dimethylphenol
Concen: 0.33 ug/ml
RT: 5.747 min Scan# 1274
Delta R.T. 0.012 min
Lab File: 49060-05.D
Acq: 07 Dec 2018 01:51 am

Tgt Ion:107 Resp: 2606

Ion	Ratio	Lower	Upper
107	100		
121	57.6	41.3	61.9
122	96.2	69.3	103.9

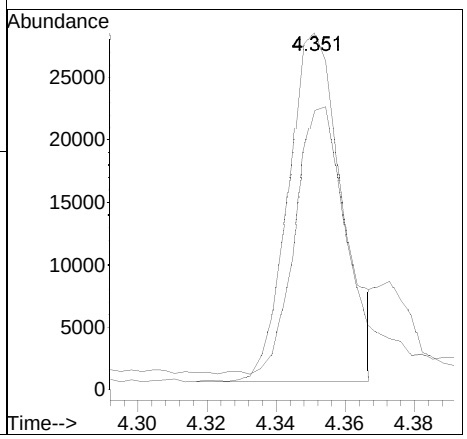


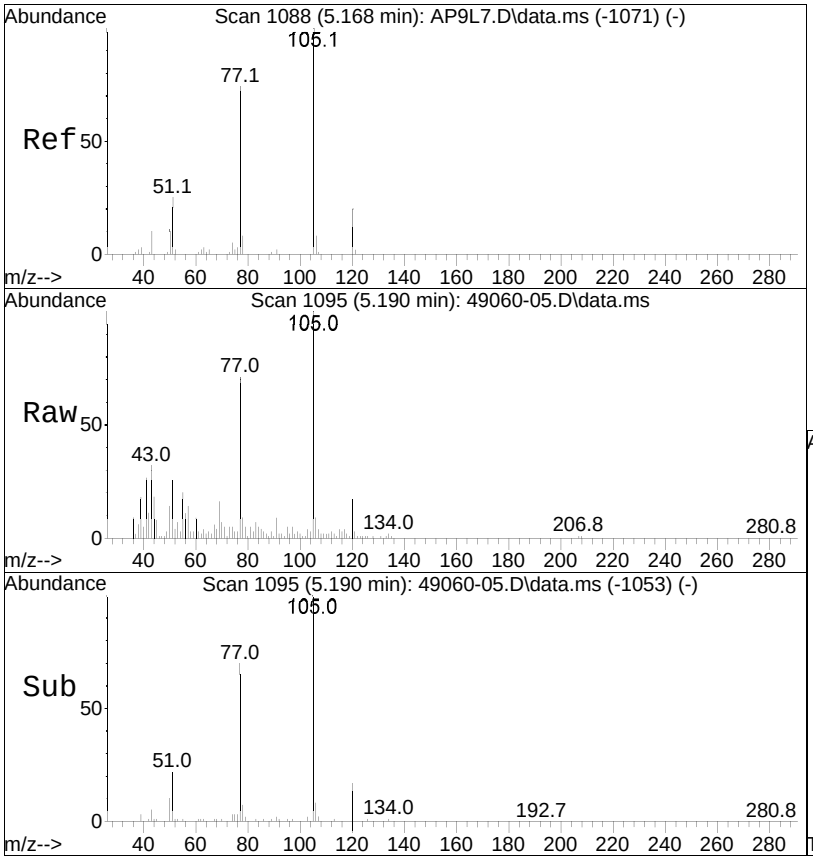


#28
Benzaldehyde
Concen: 4.52 ug/ml
RT: 4.351 min Scan# 825
Delta R.T. 0.006 min
Lab File: 49060-05.D
Acq: 07 Dec 2018 01:51 am

Tgt Ion:105 Resp: 30377

Ion	Ratio	Lower	Upper
105	100		
77	79.9	77.0	115.6

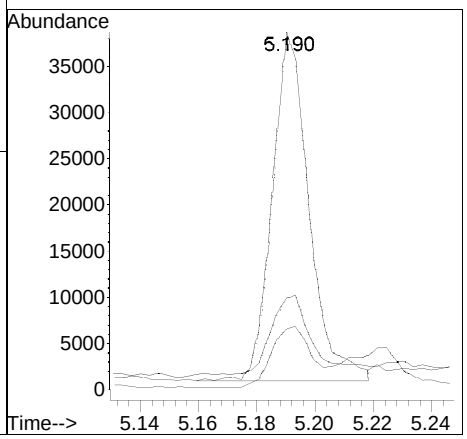


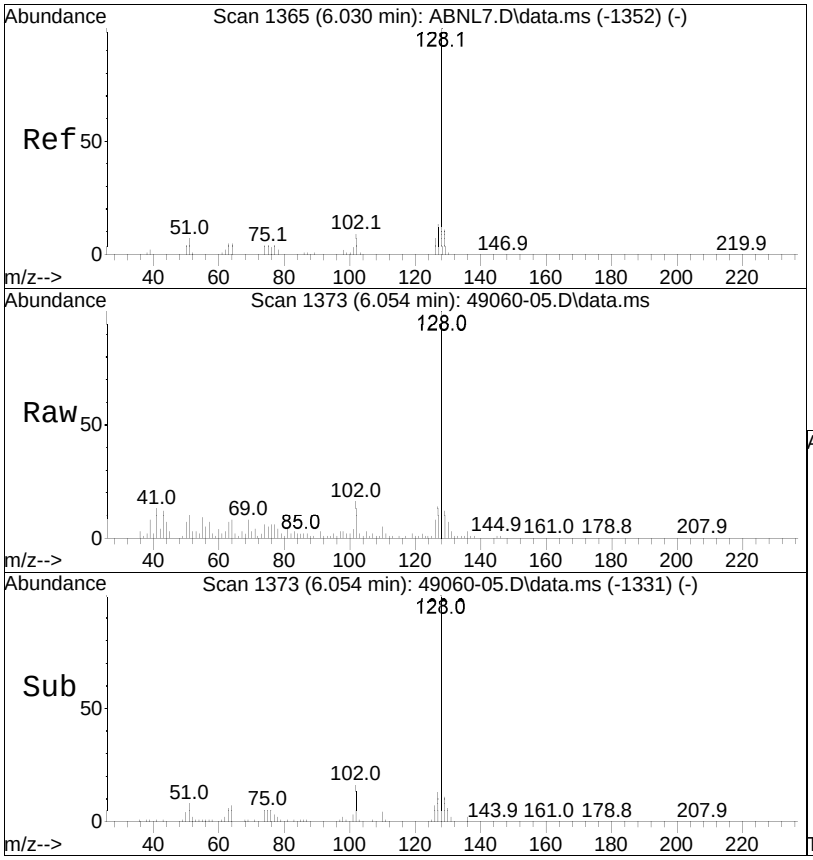


#29
Acetophenone
Concen: 2.94 ug/ml
RT: 5.190 min Scan# 1095
Delta R.T. 0.006 min
Lab File: 49060-05.D
Acq: 07 Dec 2018 01:51 am

Tgt Ion:105 Resp: 33105

Ion	Ratio	Lower	Upper
105	100		
120	19.1	15.2	22.8
51	26.1	23.1	34.7

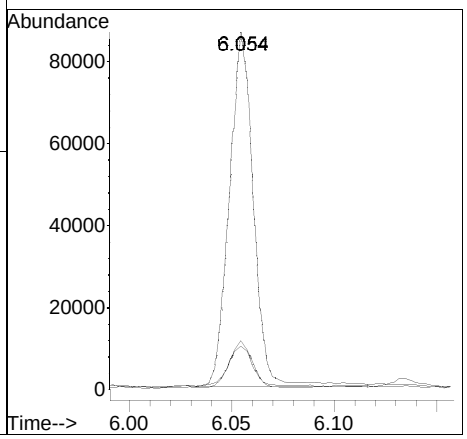


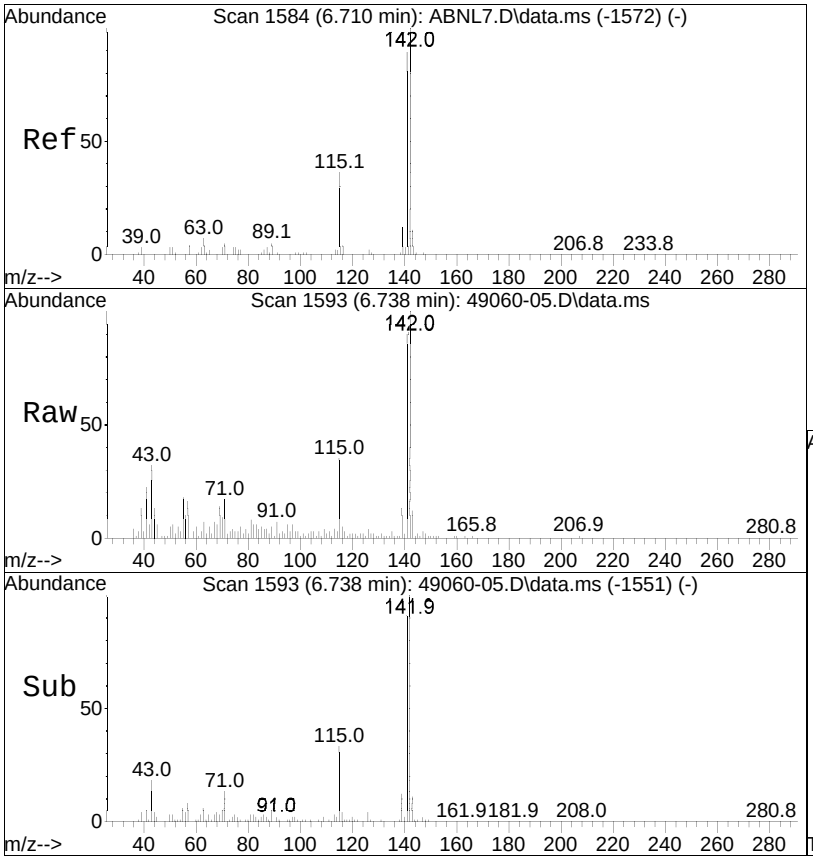


#35
Naphthalene
Concen: 2.73 ug/ml
RT: 6.054 min Scan# 1373
Delta R.T. 0.006 min
Lab File: 49060-05.D
Acq: 07 Dec 2018 01:51 am

Tgt Ion:128 Resp: 70430

Ion	Ratio	Lower	Upper
128	100		
129	13.1	8.9	13.3
127	12.5	10.6	15.8

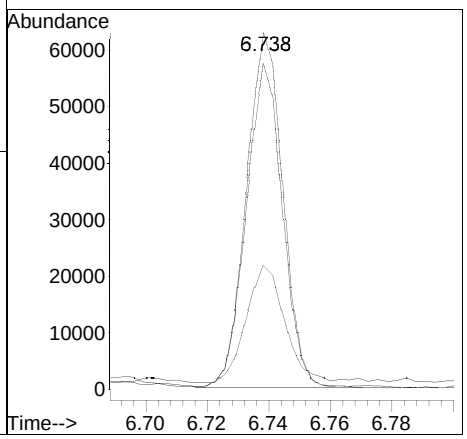


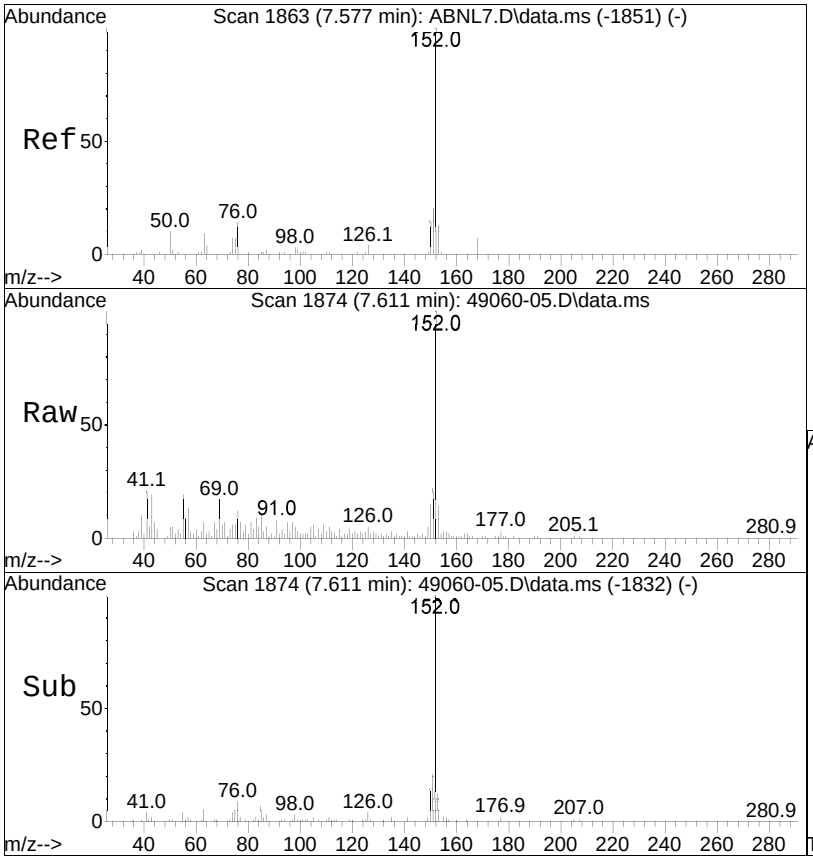


#40
2-Methylnaphthalene
Concen: 3.08 ug/ml
RT: 6.738 min Scan# 1593
Delta R.T. 0.006 min
Lab File: 49060-05.D
Acq: 07 Dec 2018 01:51 am

Tgt Ion:142 Resp: 51616

Ion	Ratio	Lower	Upper
142	100		
141	89.3	72.2	108.4
115	35.0	27.8	41.6

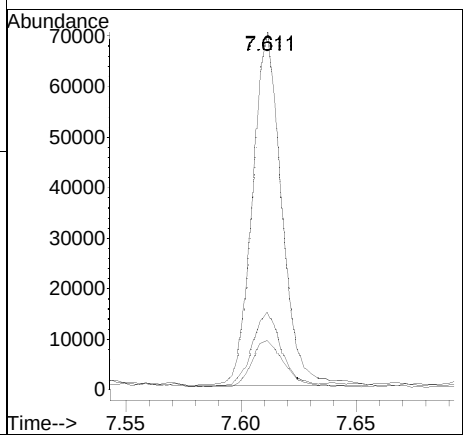


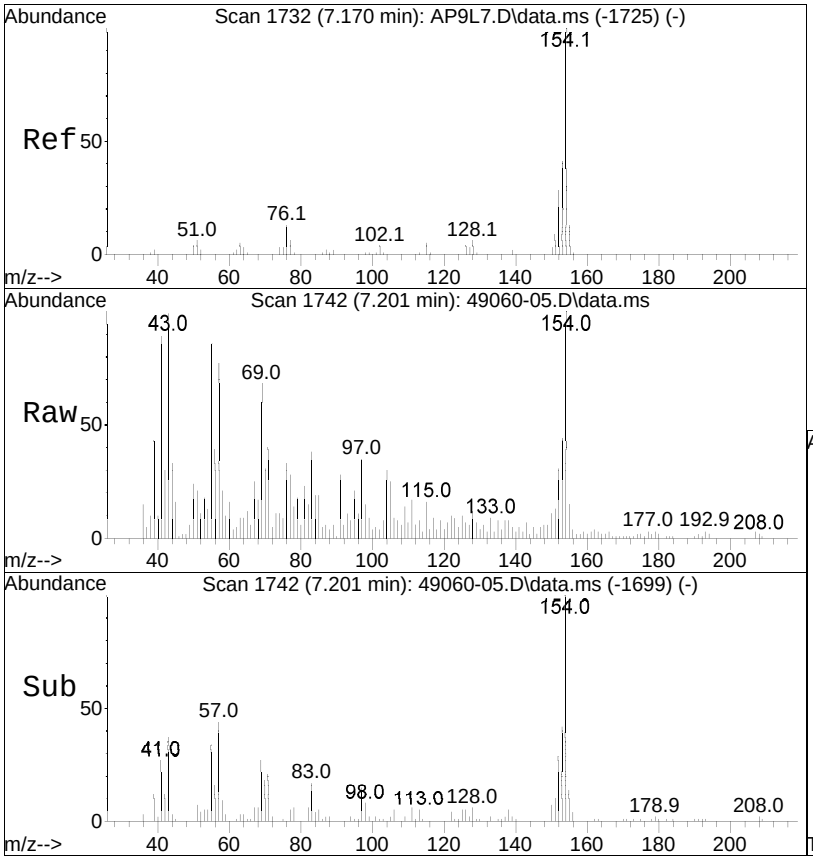


#51
Acenaphthylene
Concen: 2.55 ug/ml
RT: 7.611 min Scan# 1874
Delta R.T. 0.006 min
Lab File: 49060-05.D
Acq: 07 Dec 2018 01:51 am

Tgt Ion:152 Resp: 60794

Ion	Ratio	Lower	Upper
152	100		
151	20.9	15.9	23.9
153	14.6	10.5	15.7

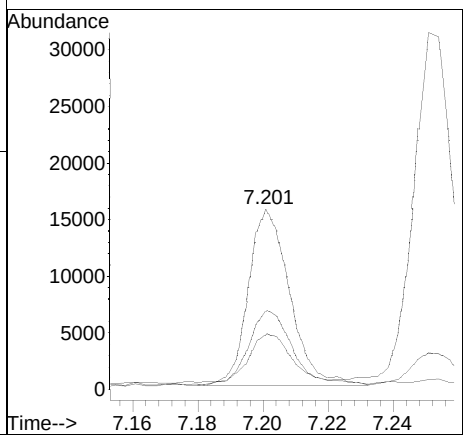


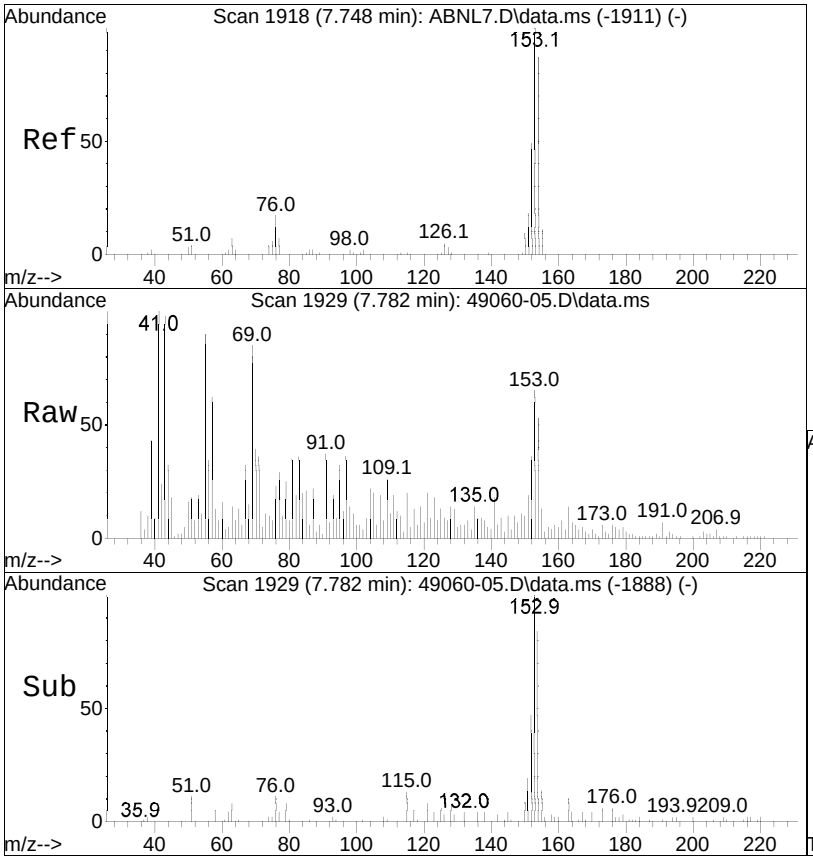


#61
Biphenyl
Concen: 0.75 ug/ml
RT: 7.201 min Scan# 1742
Delta R.T. 0.009 min
Lab File: 49060-05.D
Acq: 07 Dec 2018 01:51 am

Tgt Ion:154 Resp: 13798

Ion	Ratio	Lower	Upper
154	100		
153	44.9	32.5	48.7
152	29.6	22.6	34.0

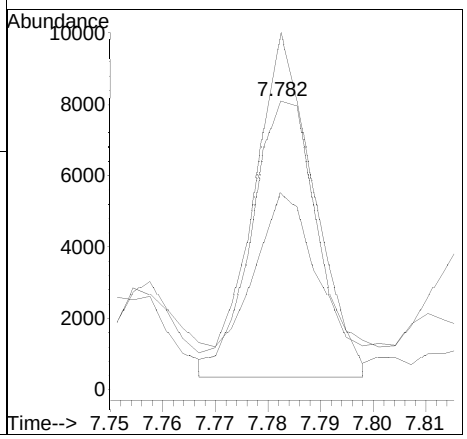


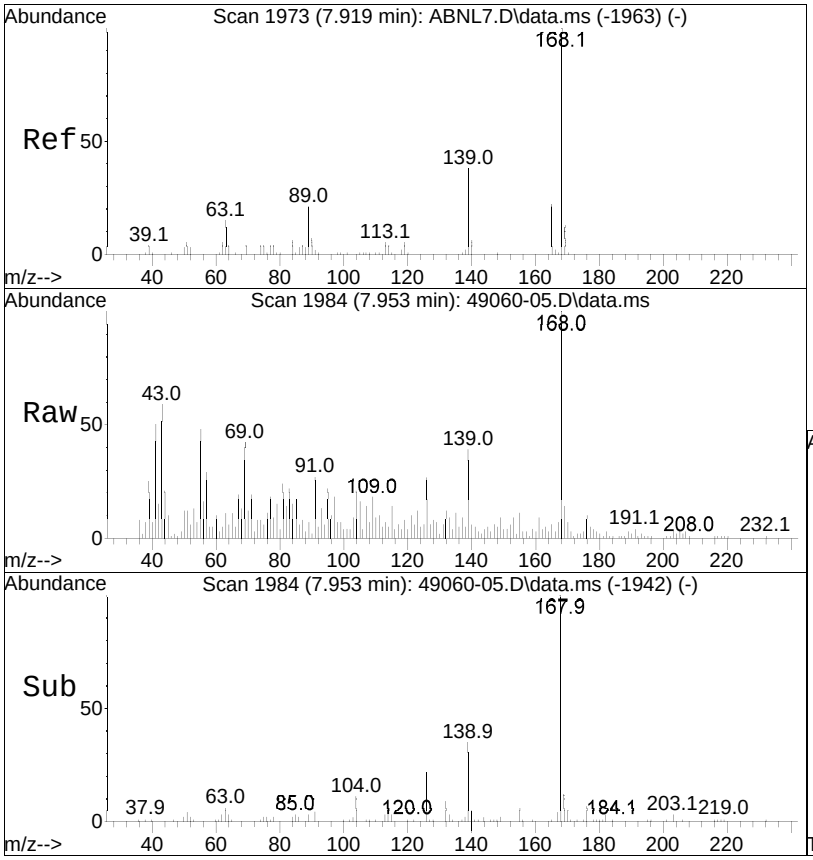


#64
Acenaphthene
Concen: 0.50 ug/ml M1
RT: 7.782 min Scan# 1929
Delta R.T. 0.003 min
Lab File: 49060-05.D
Acq: 07 Dec 2018 01:51 am

Tgt Ion:154 Resp: 6751

Ion	Ratio	Lower	Upper
154	100		
153	106.0	93.0	139.4
152	48.1	43.3	64.9

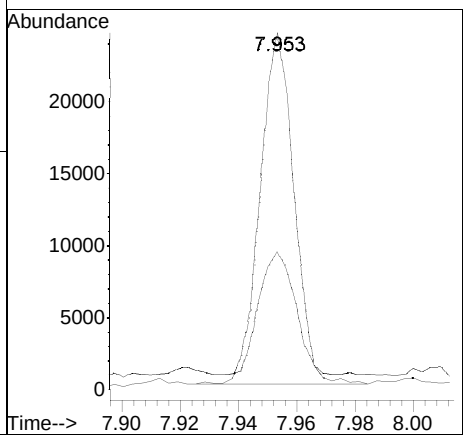


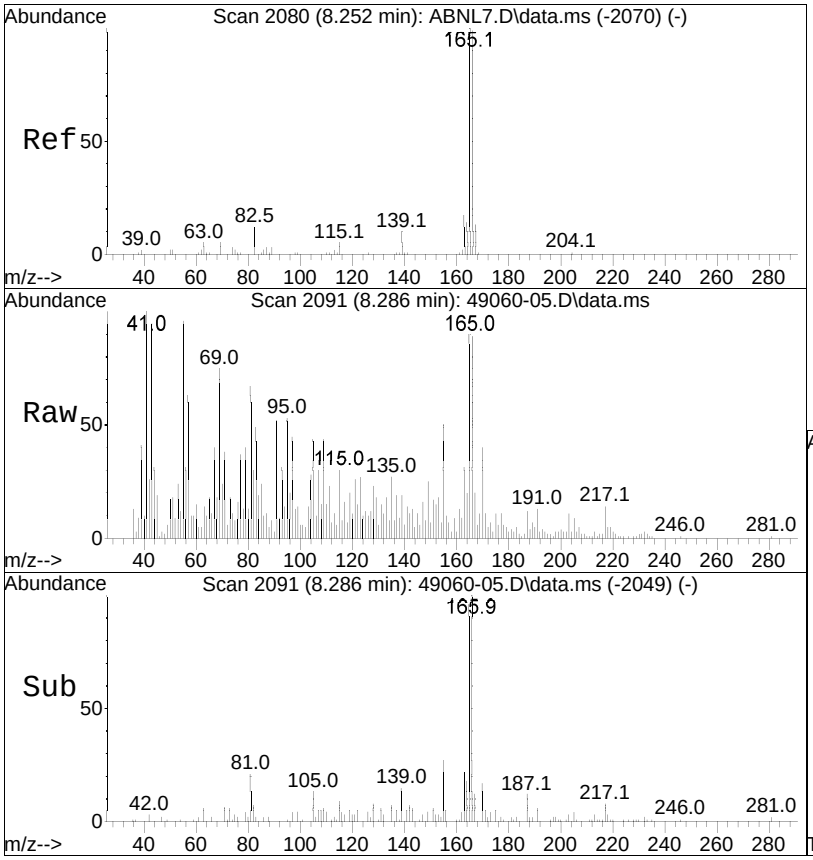


#66
Dibenzofuran
Concen: 0.96 ug/ml
RT: 7.953 min Scan# 1984
Delta R.T. 0.006 min
Lab File: 49060-05.D
Acq: 07 Dec 2018 01:51 am

Tgt Ion:168 Resp: 19509

Ion	Ratio	Lower	Upper
168	100		
139	37.5	32.3	48.5

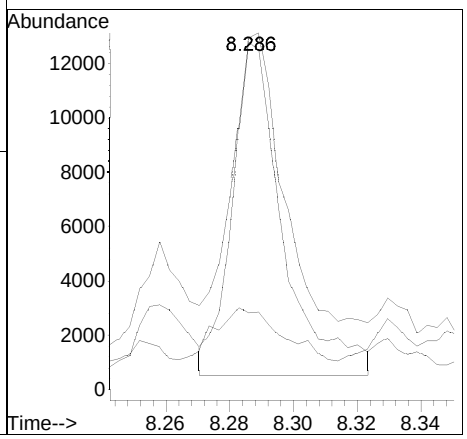


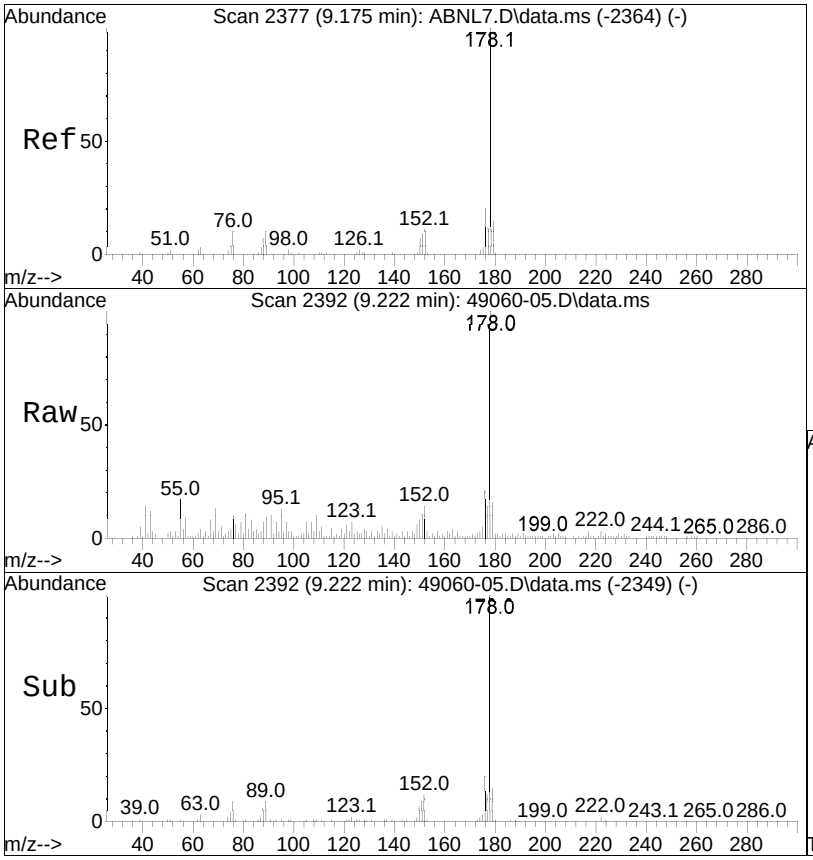


#72
Fluorene
Concen: 0.87 ug/ml M1
RT: 8.286 min Scan# 2091
Delta R.T. 0.006 min
Lab File: 49060-05.D
Acq: 07 Dec 2018 01:51 am

Tgt Ion:166 Resp: 13531

Ion	Ratio	Lower	Upper
166	100		
165	85.6	80.0	120.0
167	20.4	10.7	16.1#

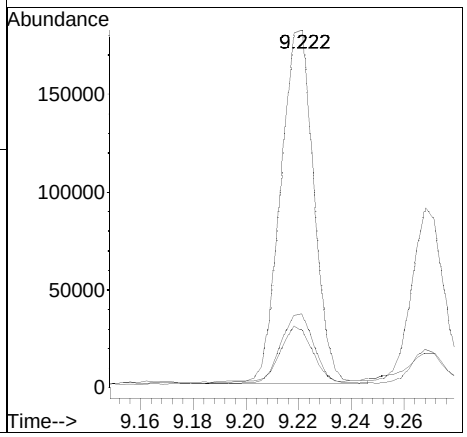


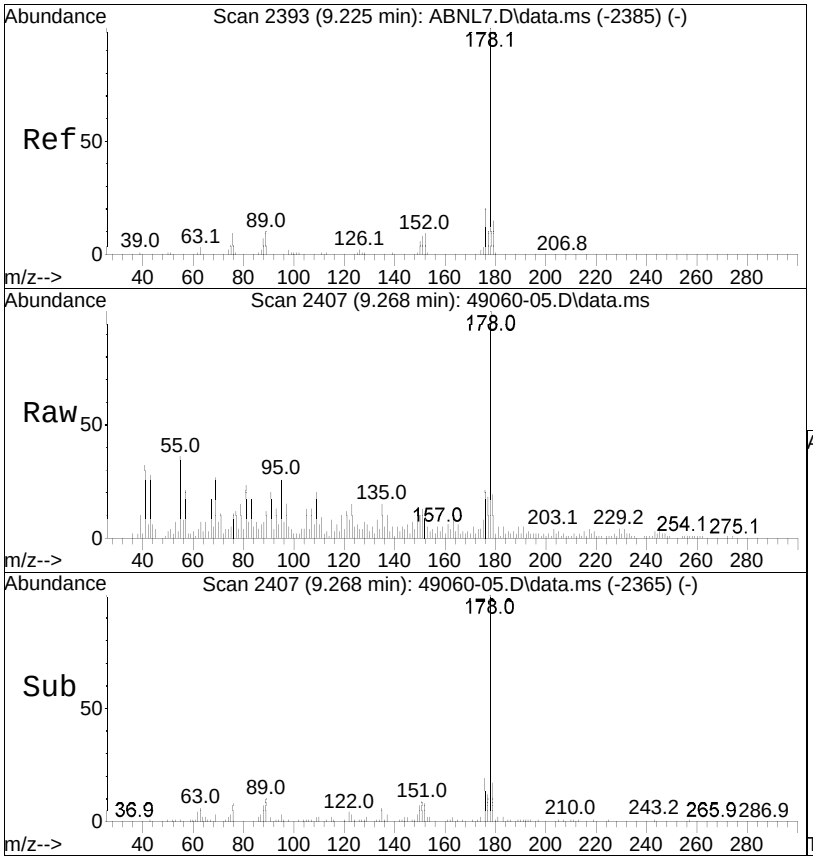


#88
Phenanthrene
Concen: 6.20 ug/ml
RT: 9.222 min Scan# 2392
Delta R.T. 0.009 min
Lab File: 49060-05.D
Acq: 07 Dec 2018 01:51 am

Tgt Ion:178 Resp: 158877

Ion	Ratio	Lower	Upper
178	100		
179	15.8	12.3	18.5
176	19.6	15.4	23.2

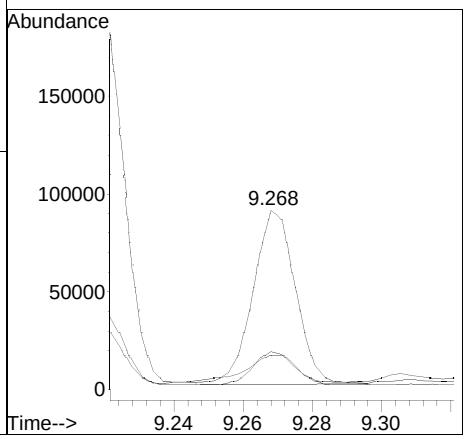


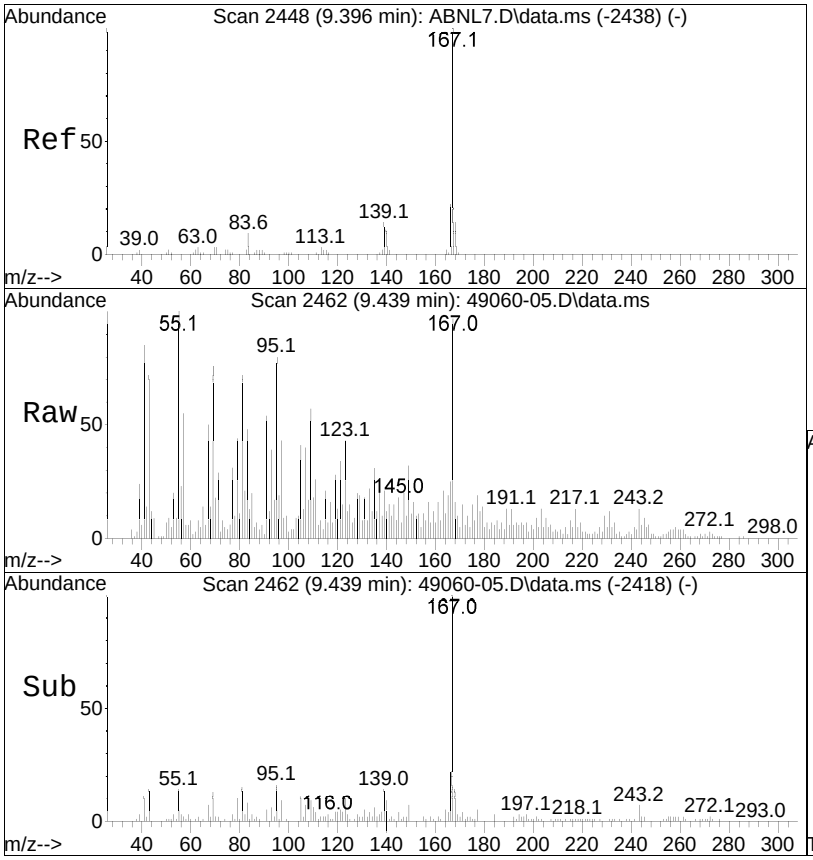


#89
Anthracene
Concen: 3.01 ug/ml
RT: 9.268 min Scan# 2407
Delta R.T. 0.006 min
Lab File: 49060-05.D
Acq: 07 Dec 2018 01:51 am

Tgt Ion:178 Resp: 74984

Ion	Ratio	Lower	Upper
178	100		
179	20.5	12.2	18.2#
176	19.5	15.1	22.7

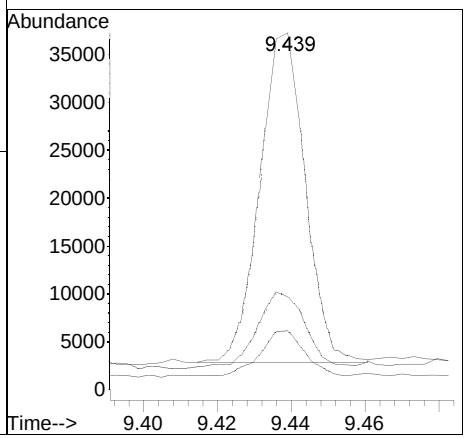


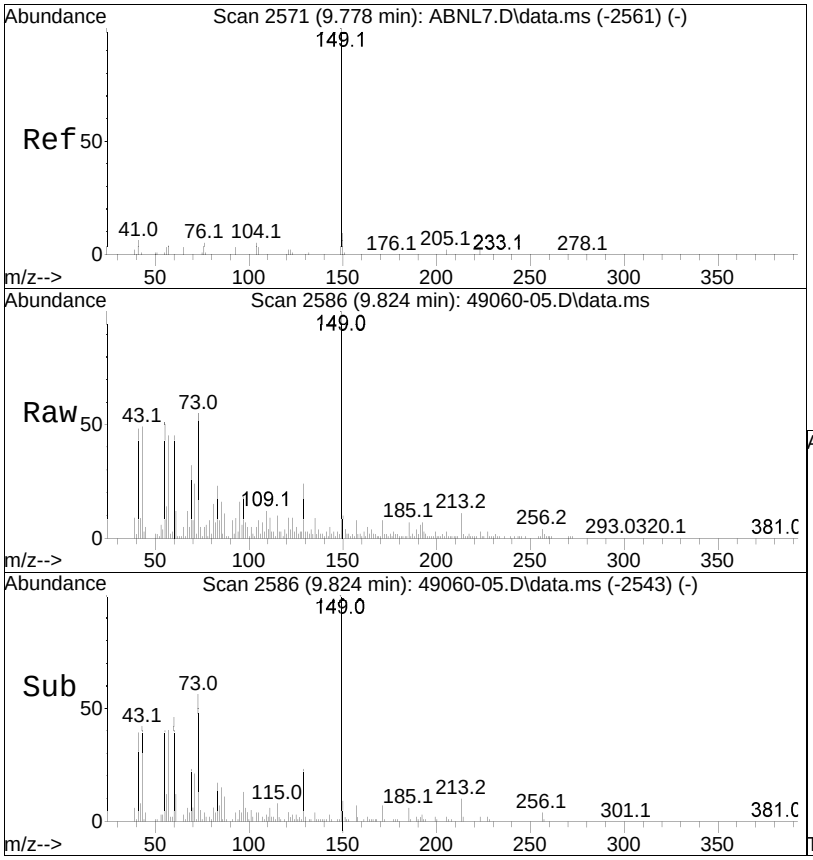


#90
Carbazole
Concen: 1.22 ug/ml
RT: 9.439 min Scan# 2462
Delta R.T. 0.012 min
Lab File: 49060-05.D
Acq: 07 Dec 2018 01:51 am

Tgt Ion:167 Resp: 29092

Ion	Ratio	Lower	Upper
167	100		
168	13.6	10.8	16.2
166	25.6	17.7	26.5

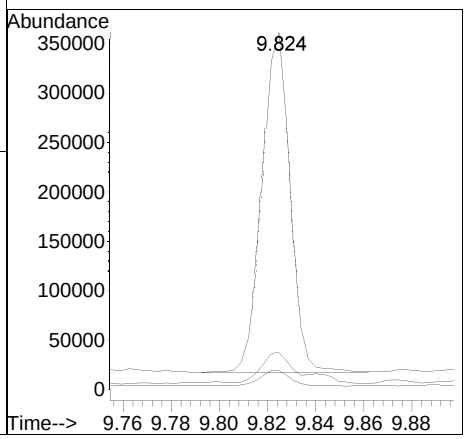


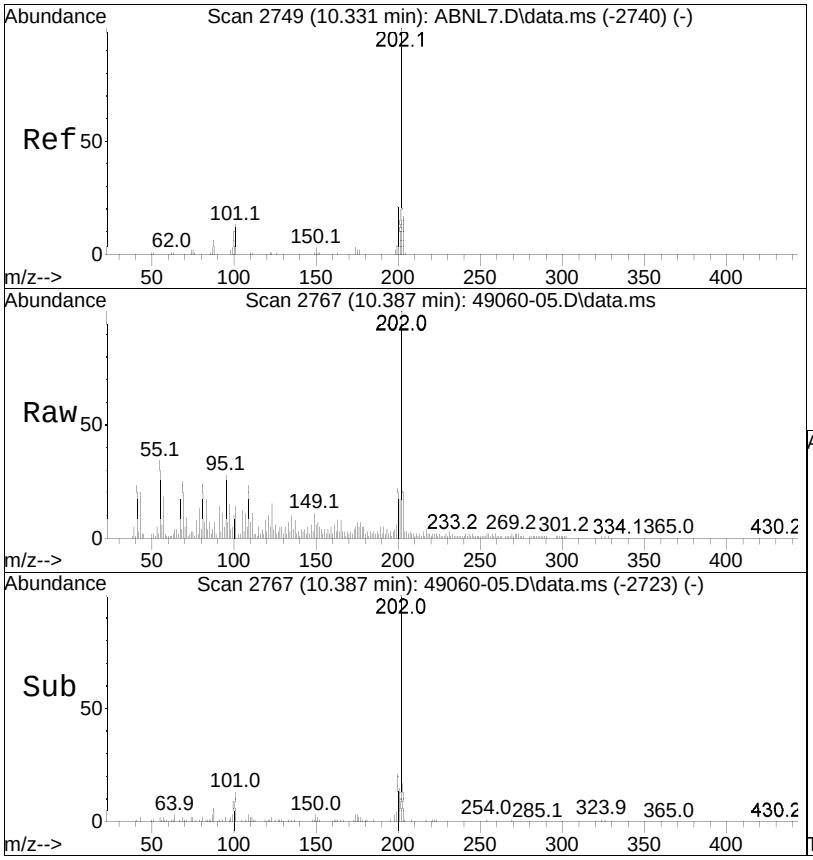


#91
Di-n-butylphthalate
Concen: 10.17 ug/ml
RT: 9.824 min Scan# 2586
Delta R.T. 0.009 min
Lab File: 49060-05.D
Acq: 07 Dec 2018 01:51 am

Tgt Ion:149 Resp: 279393

Ion	Ratio	Lower	Upper
149	100		
150	9.6	7.3	10.9
104	5.0	4.0	6.0

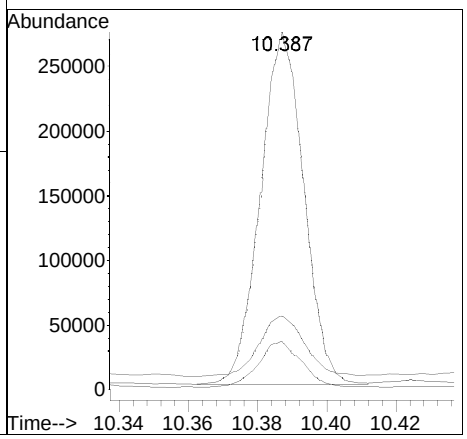


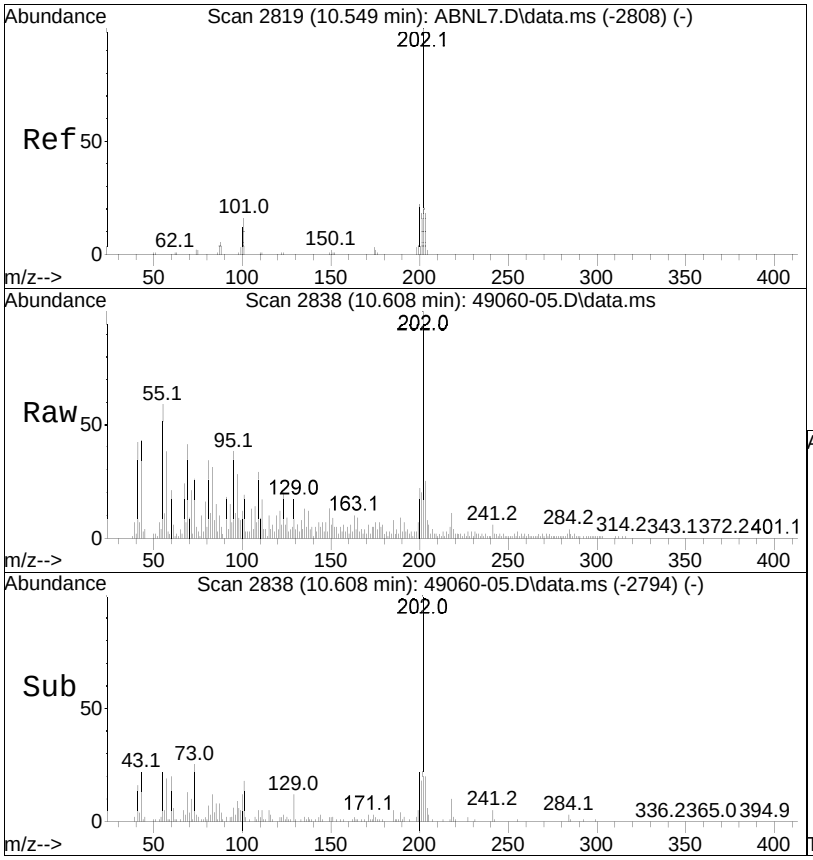


#92
Fluoranthene
Concen: 9.17 ug/ml
RT: 10.387 min Scan# 2767
Delta R.T. 0.012 min
Lab File: 49060-05.D
Acq: 07 Dec 2018 01:51 am

Tgt Ion:202 Resp: 233907

Ion	Ratio	Lower	Upper
202	100		
101	12.7	11.2	16.8
203	18.6	13.7	20.5

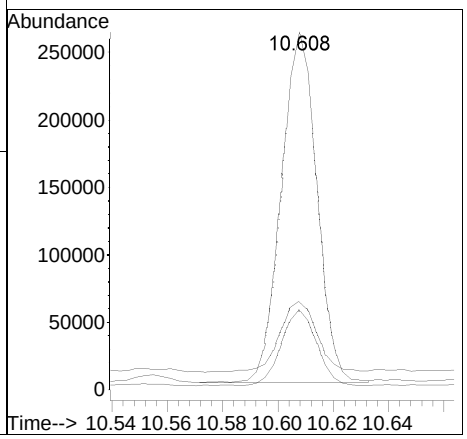


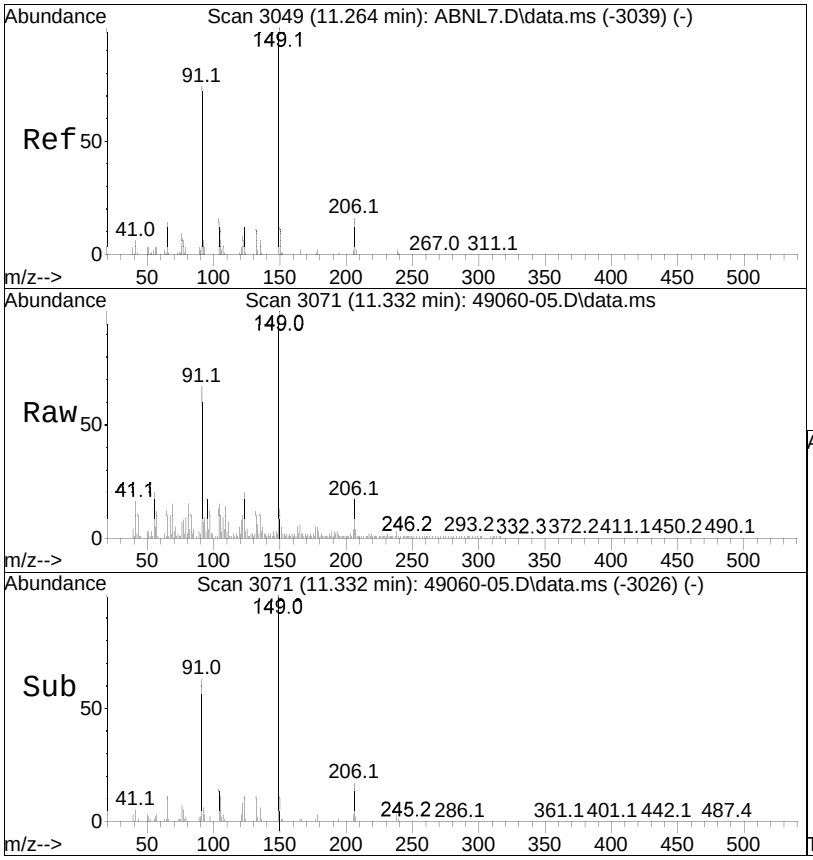


#94
Pyrene
Concen: 8.53 ug/ml
RT: 10.608 min Scan# 2838
Delta R.T. 0.012 min
Lab File: 49060-05.D
Acq: 07 Dec 2018 01:51 am

Tgt Ion:202 Resp: 230073

Ion	Ratio	Lower	Upper
202	100		
200	21.8	16.9	25.3
203	21.2	14.3	21.5

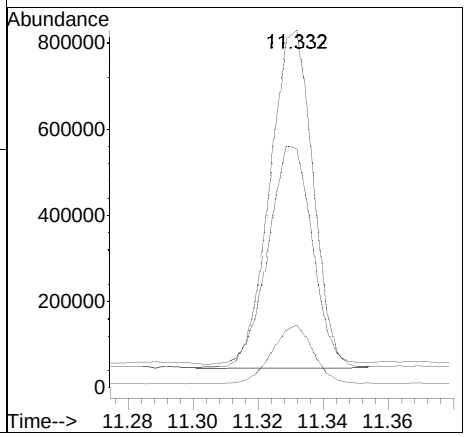


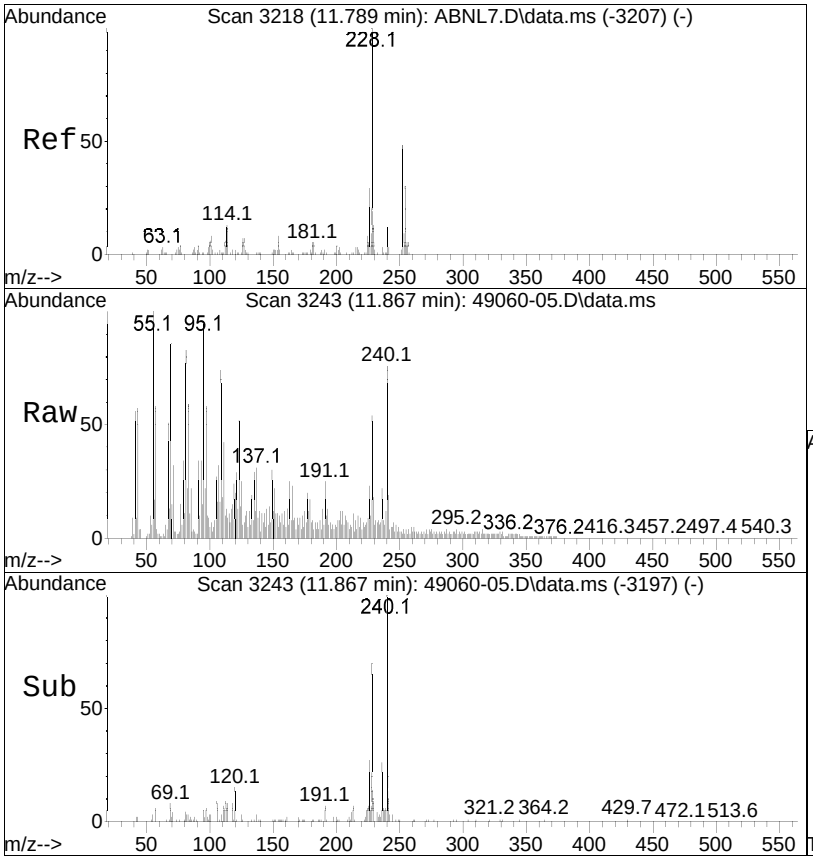


#96
Butyl benzyl phthalate
Concen: 55.54 ug/ml
RT: 11.332 min Scan# 3071
Delta R.T. 0.016 min
Lab File: 49060-05.D
Acq: 07 Dec 2018 01:51 am

Tgt Ion:149 Resp: 713725

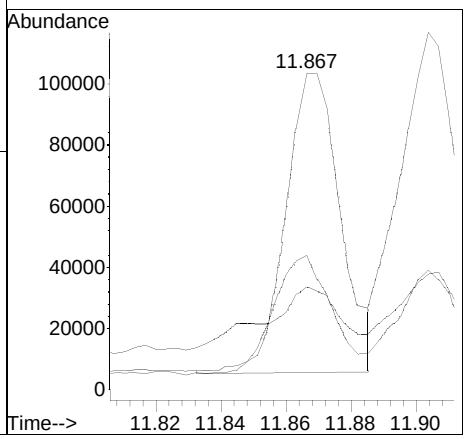
Ion	Ratio	Lower	Upper
149	100		
91	65.9	57.9	86.9
206	17.2	11.9	17.9

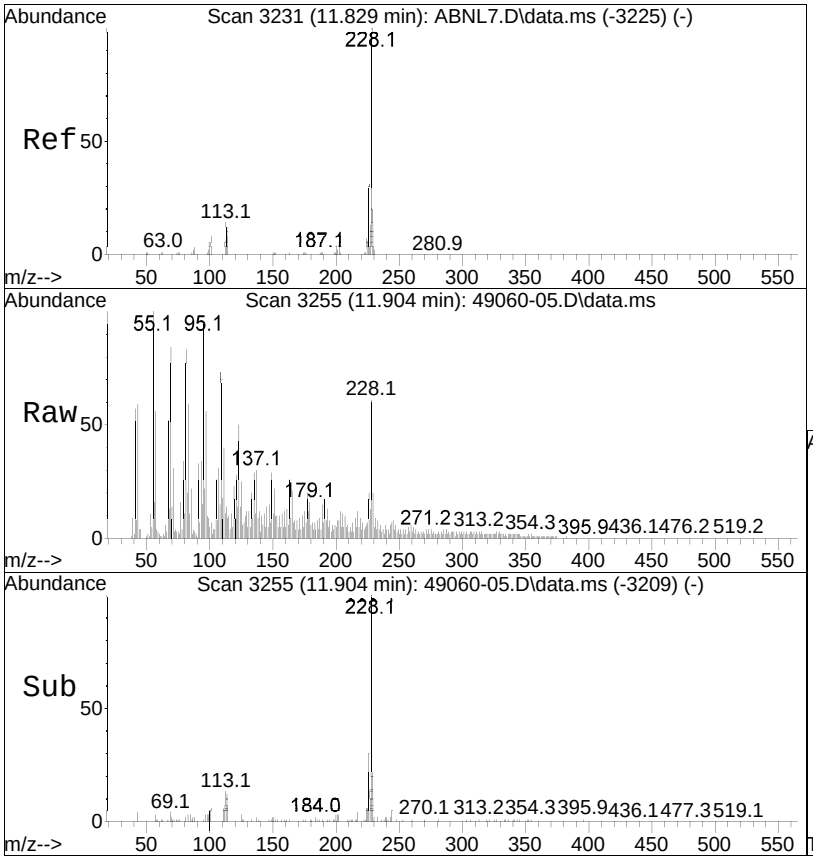




#104
Benzo(a)anthracene
Concen: 5.30 ug/ml
RT: 11.867 min Scan# 3243
Delta R.T. 0.019 min
Lab File: 49060-05.D
Acq: 07 Dec 2018 01:51 am

Tgt Ion:228	Resp:	114388	
Ion	Ratio	Lower	Upper
228	100		
226	42.3	22.6	34.0#
229	29.0	15.8	23.6#

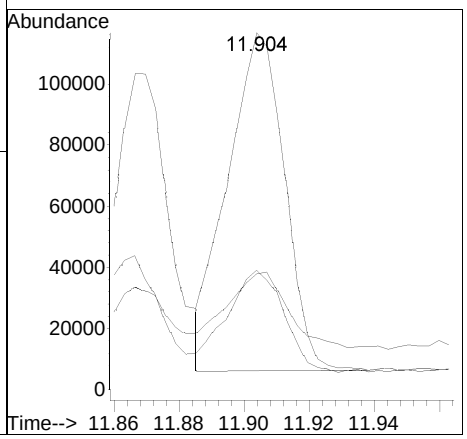


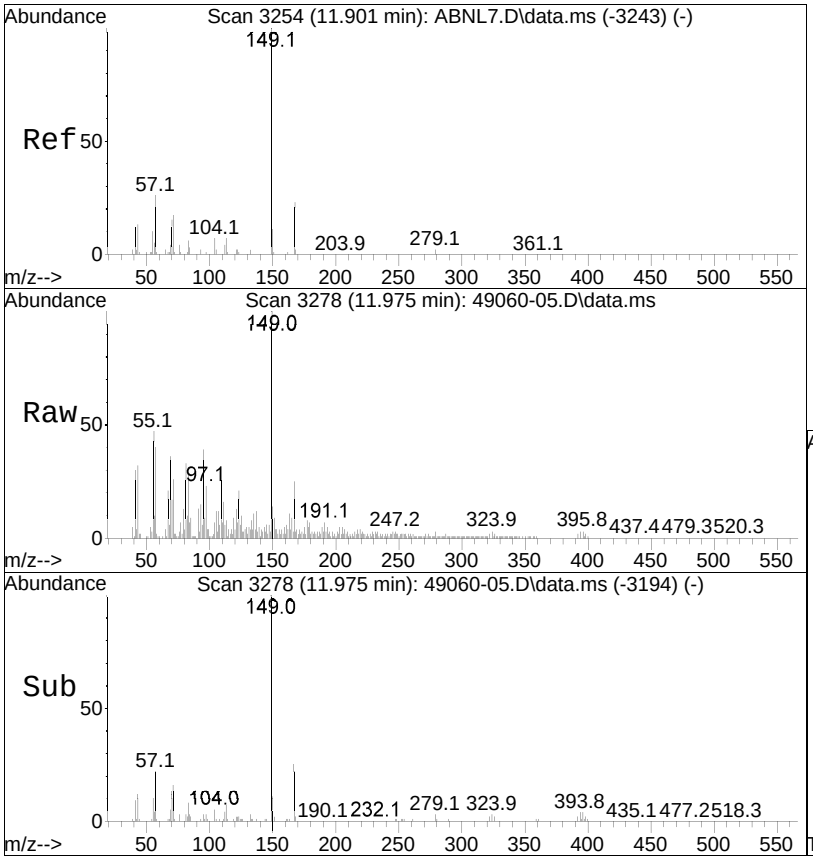


#106
Chrysene
Concen: 6.47 ug/ml
RT: 11.904 min Scan# 3255
Delta R.T. 0.019 min
Lab File: 49060-05.D
Acq: 07 Dec 2018 01:51 am

Tgt Ion:228 Resp: 135008

Ion	Ratio	Lower	Upper
228	100		
226	31.6	24.7	37.1
229	23.1	15.5	23.3

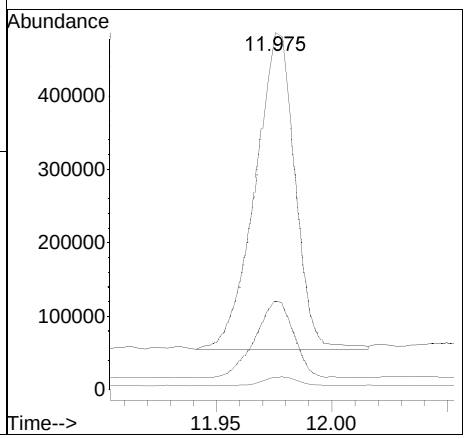


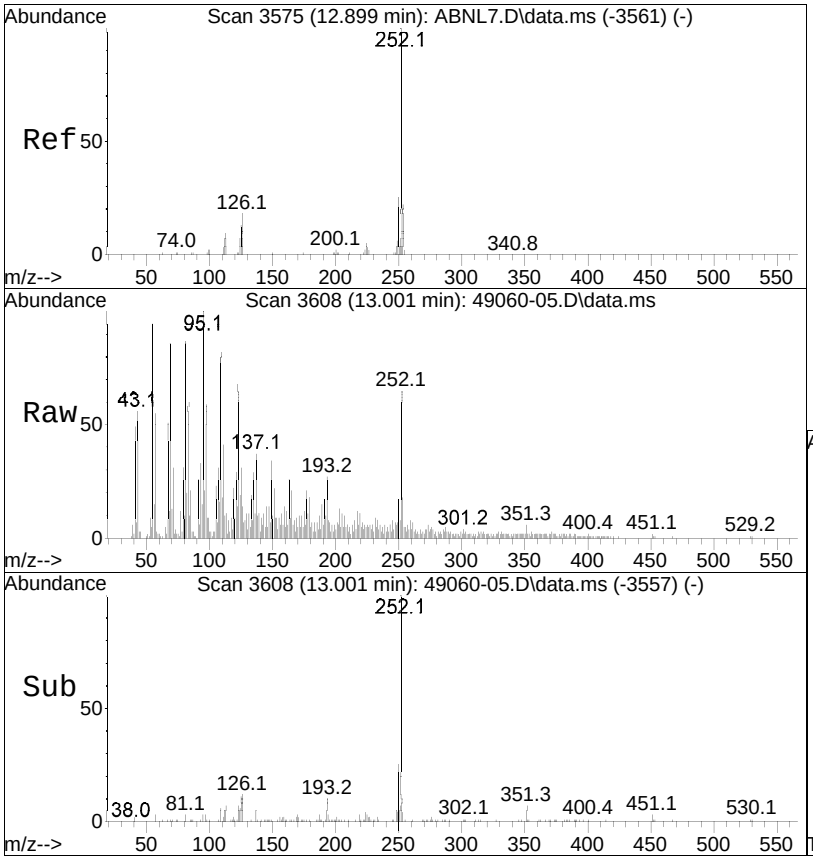


#107
Bis(2-ethylhexyl)phthalate
Concen: 29.91 ug/ml
RT: 11.975 min Scan# 3278
Delta R.T. 0.012 min
Lab File: 49060-05.D
Acq: 07 Dec 2018 01:51 am

Tgt Ion:149 Resp: 511491

Ion	Ratio	Lower	Upper
149	100		
167	24.2	18.4	27.6
279	2.5	1.7	2.5

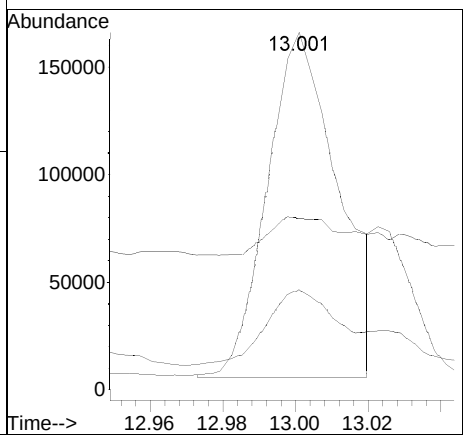


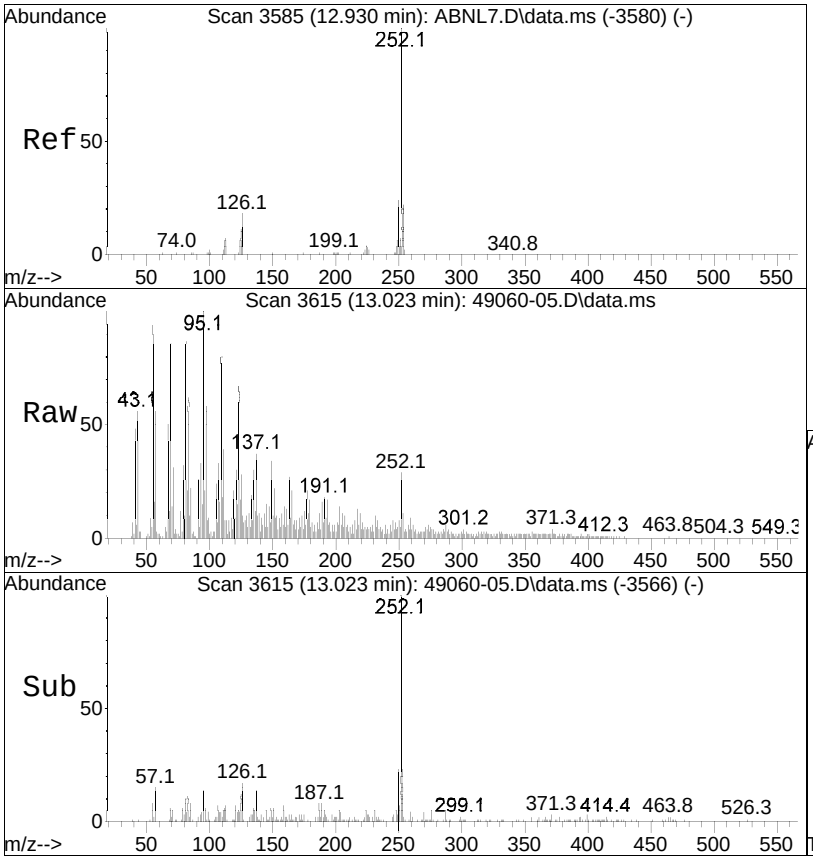


#109
Benzo(b)fluoranthene
Concen: 11.35 ug/ml M6
RT: 13.001 min Scan# 3608
Delta R.T. 0.034 min
Lab File: 49060-05.D
Acq: 07 Dec 2018 01:51 am

Tgt Ion:252 Resp: 218051

Ion	Ratio	Lower	Upper
252	100		
125	17.5	11.3	16.9#
253	22.7	17.8	26.8

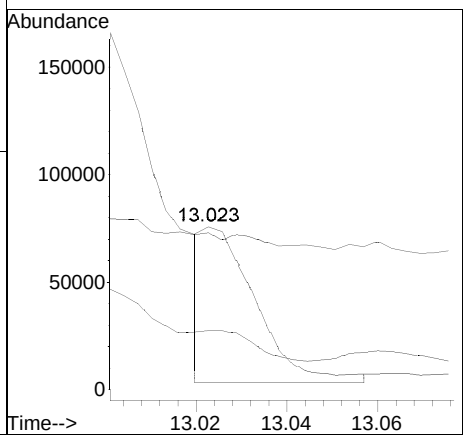


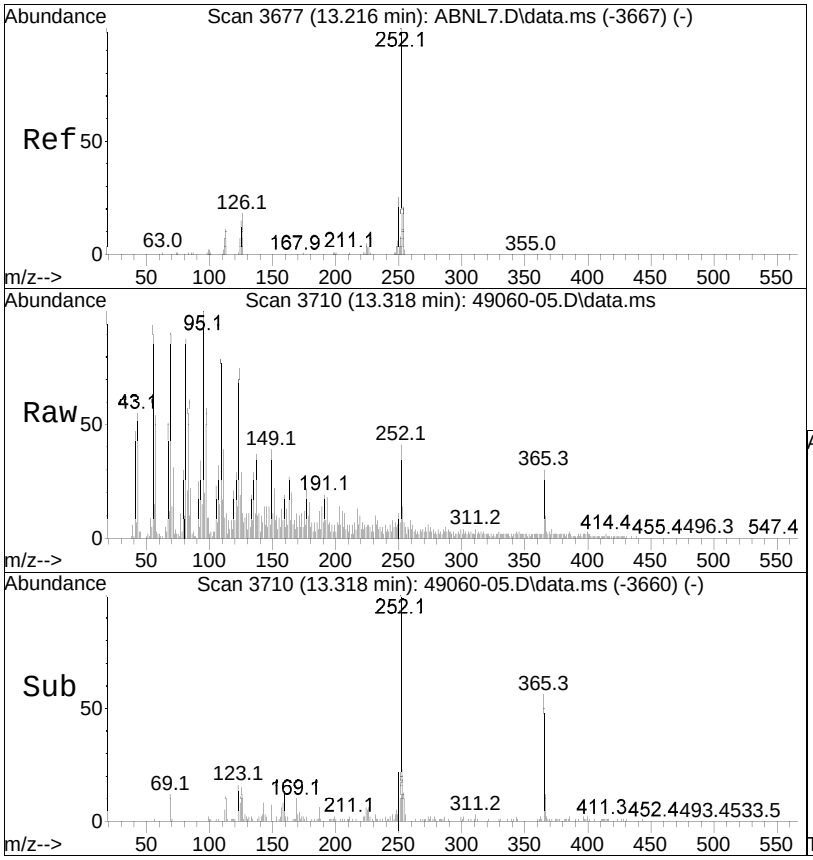


#110
Benzo(k)fluoranthene
Concen: 2.97 ug/ml M3
RT: 13.023 min Scan# 3615
Delta R.T. 0.028 min
Lab File: 49060-05.D
Acq: 07 Dec 2018 01:51 am

Tgt Ion:252 Resp: 58949

Ion	Ratio	Lower	Upper
252	100		
125	64.9	11.5	17.3#
253	83.8	17.6	26.4#

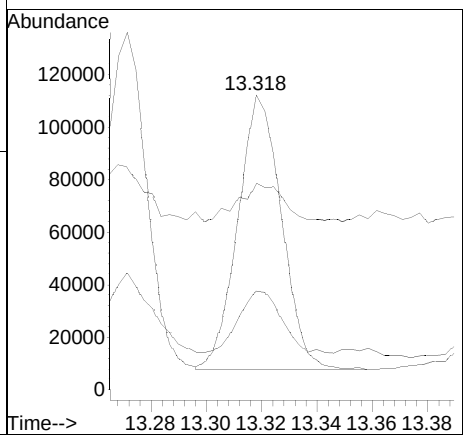


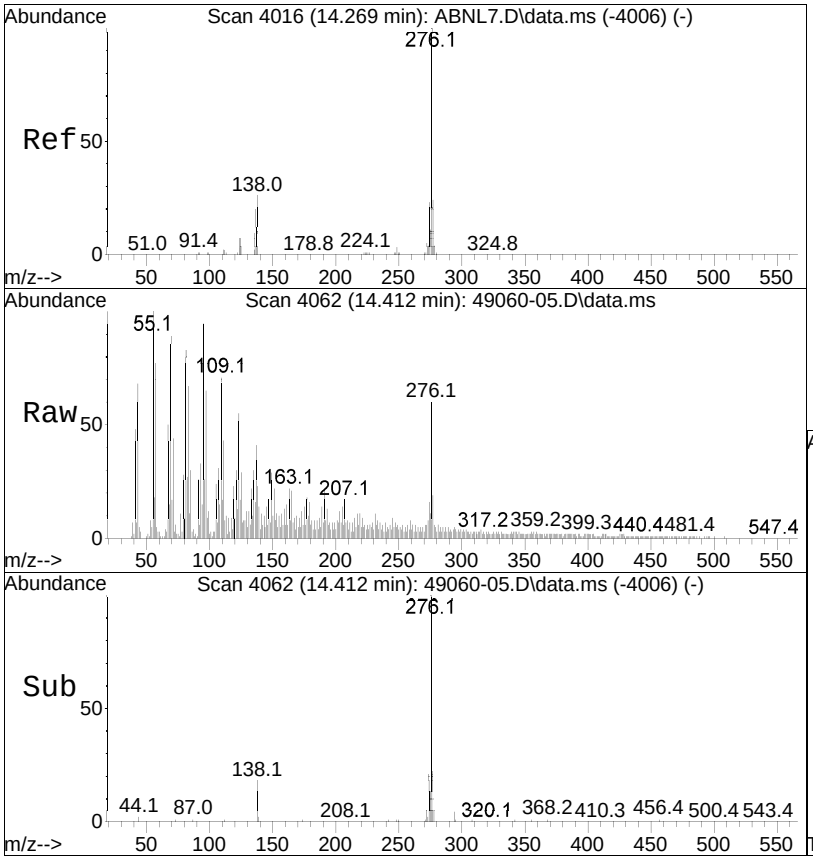


#111
Benzo(a)pyrene
Concen: 6.12 ug/ml
RT: 13.318 min Scan# 3710
Delta R.T. 0.031 min
Lab File: 49060-05.D
Acq: 07 Dec 2018 01:51 am

Tgt Ion:252 Resp: 114445

Ion	Ratio	Lower	Upper
252	100		
125	14.3	12.6	18.8
253	23.3	17.5	26.3

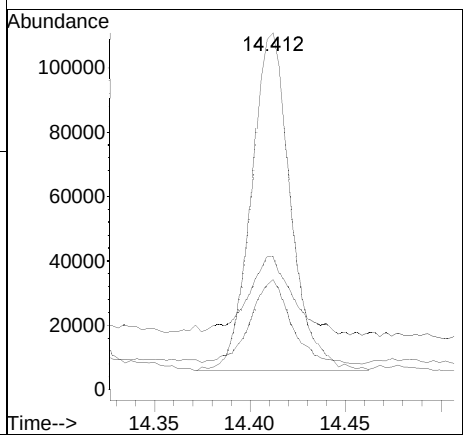


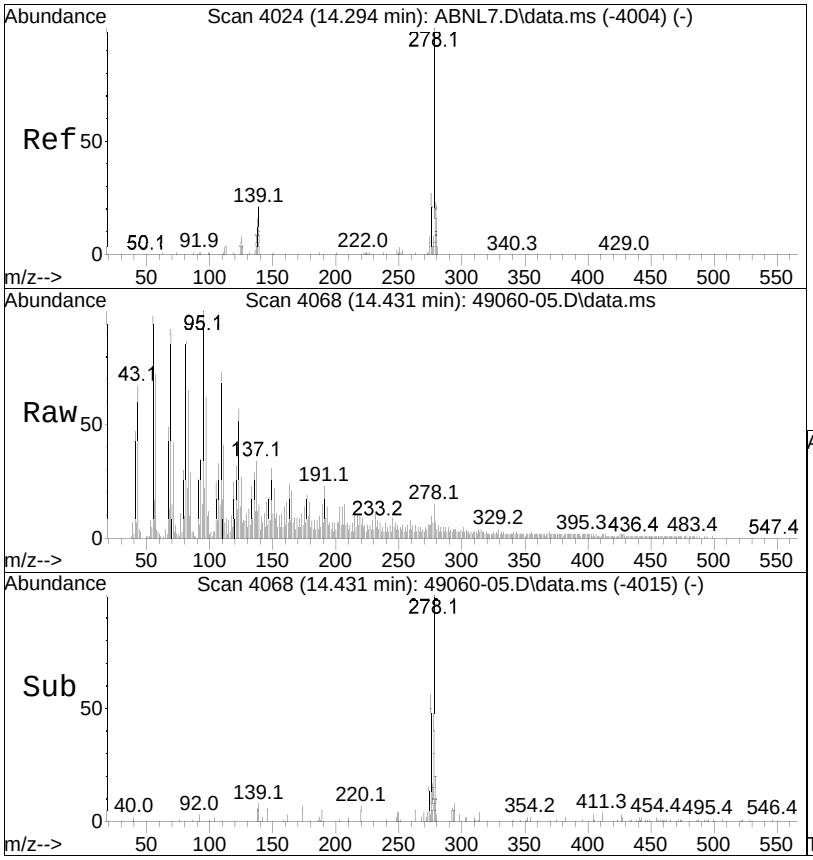


#113
Indeno(1,2,3-cd)pyrene
Concen: 7.95 ug/mL
RT: 14.412 min Scan# 4062
Delta R.T. 0.050 min
Lab File: 49060-05.D
Acq: 07 Dec 2018 01:51 am

Tgt Ion:276 Resp: 148286

Ion	Ratio	Lower	Upper
276	100		
138	26.7	22.1	33.1
277	26.3	19.0	28.6

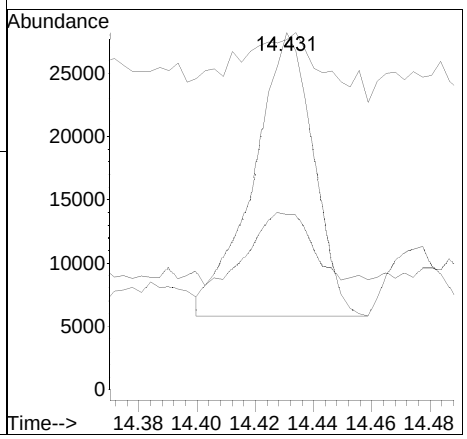


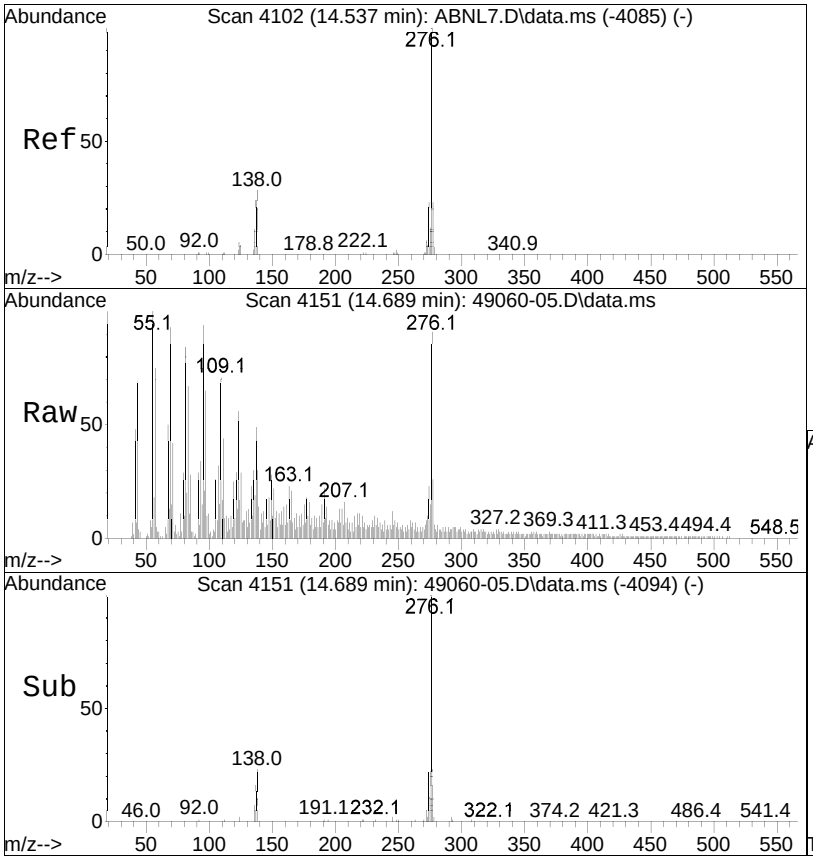


#114
Dibenzo(a,h)anthracene
Concen: 1.70 ug/ml
RT: 14.431 min Scan# 4068
Delta R.T. 0.040 min
Lab File: 49060-05.D
Acq: 07 Dec 2018 01:51 am

Tgt Ion:278 Resp: 31987

Ion	Ratio	Lower	Upper
278	100		
139	34.6	17.8	26.8#
279	21.5	19.2	28.8

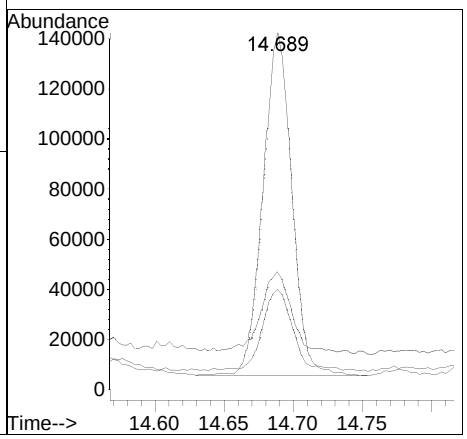




#115
Benzo(ghi)perylene
Concen: 10.39 ug/ml
RT: 14.689 min Scan# 4151
Delta R.T. 0.053 min
Lab File: 49060-05.D
Acq: 07 Dec 2018 01:51 am

Tgt Ion:276 Resp: 196073

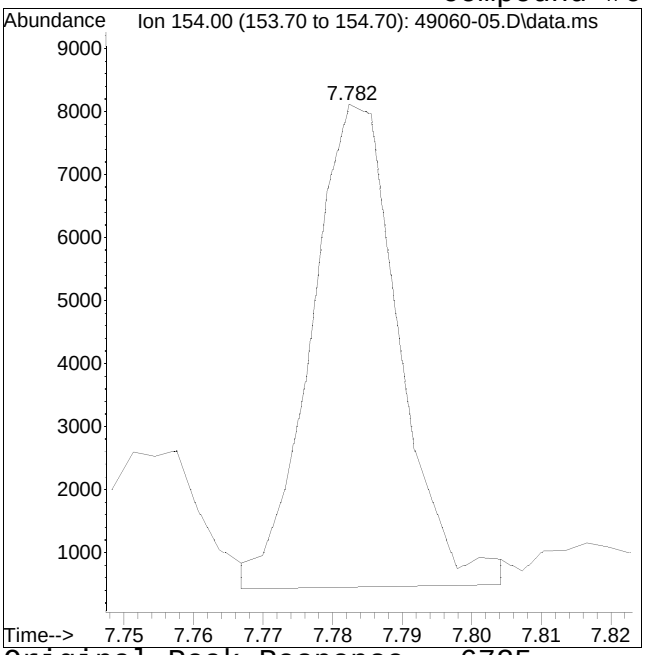
Ion	Ratio	Lower	Upper
276	100		
138	24.4	29.0	43.6#
277	25.0	18.6	27.8



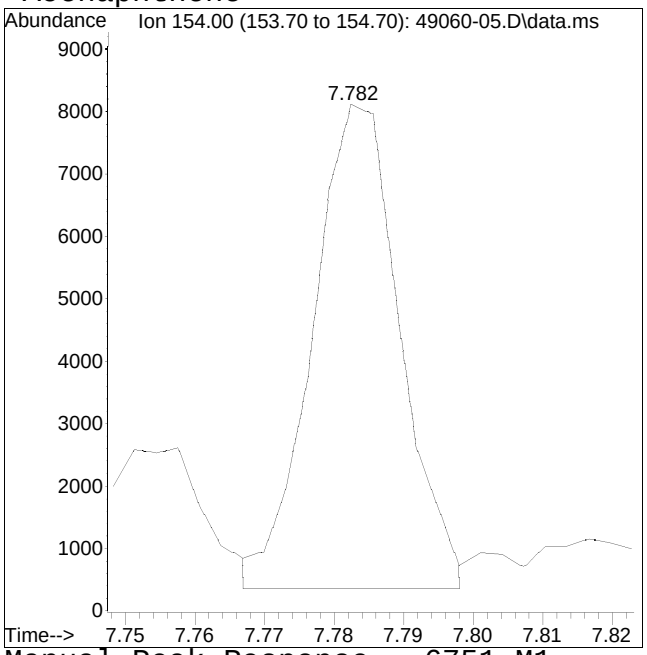
Manual Integration Report

Data Path	: I:\8270\SV112\181206\	QMethod	: FS181205SV112.m
Data File	: 49060-05.D	Operator	: sv112:rc
Date Inj'd	: 12/7/2018 1:51 am	Instrument	: SV112
Sample	: l1849060-05,32,,ny,ask	Quant Date	: 12/7/2018 7:22 am

Compound #64: Acenaphthene



Original Peak Response = 6725



Manual Peak Response = 6751 M1

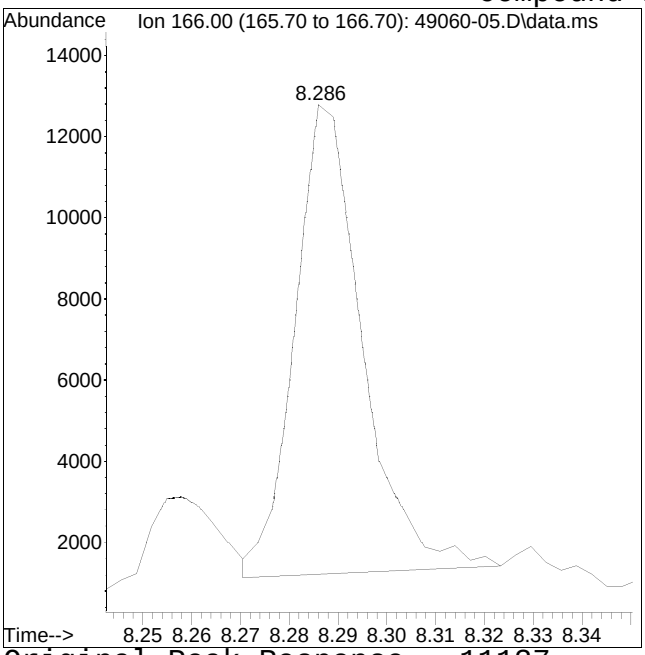
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

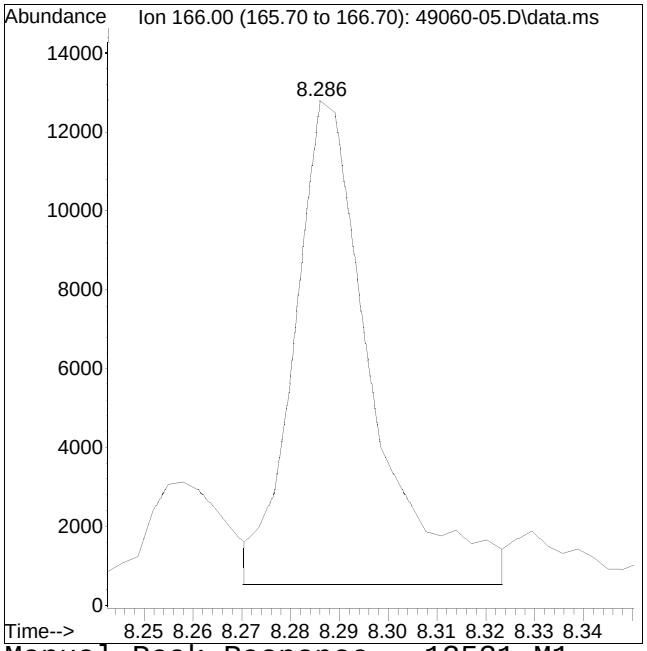
Data Path : I:\8270\SV112\181206\
Data File : 49060-05.D
Date Inj'd : 12/7/2018 1:51 am
Sample : l1849060-05,32,,ny,ask

QMethod : FS181205SV112.m
Operator : sv112:rc
Instrument : SV112
Quant Date : 12/7/2018 7:22 am

Compound #72: Fluorene



Original Peak Response = 11137



Manual Peak Response = 13531 M1

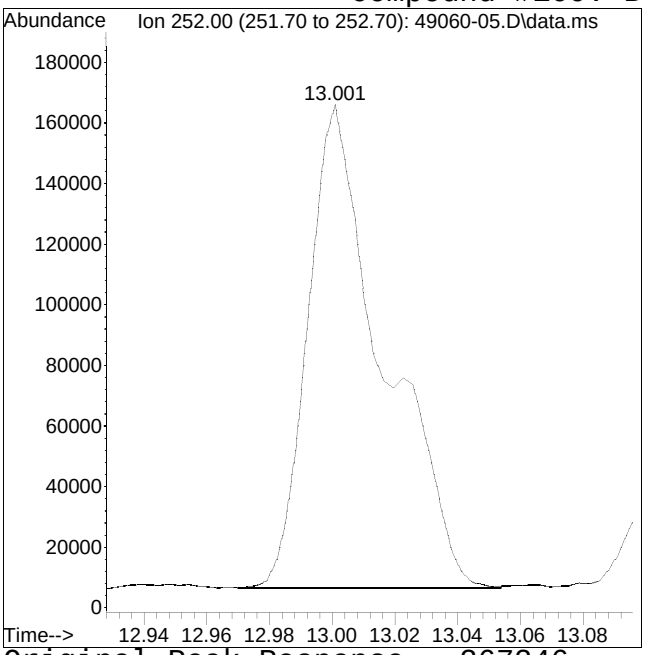
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

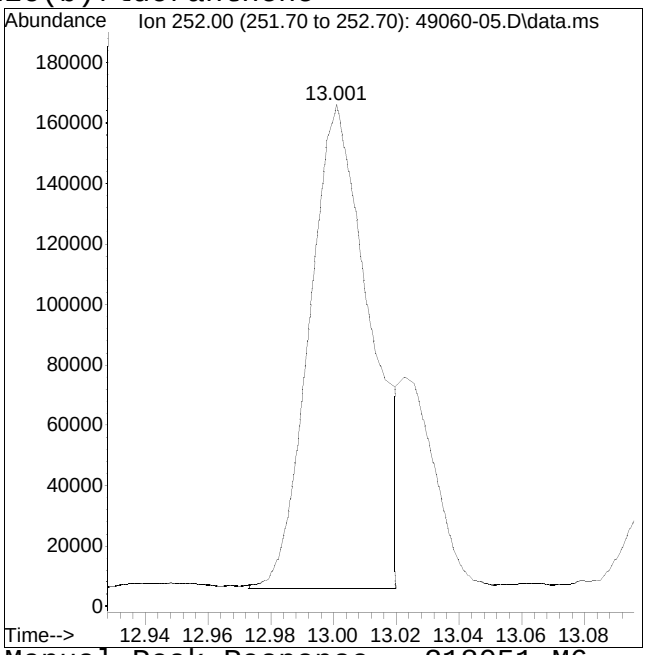
Data Path : I:\8270\SV112\181206\
Data File : 49060-05.D
Date Inj'd : 12/7/2018 1:51 am
Sample : l1849060-05,32,,ny,ask

QMethod : FS181205SV112.m
Operator : sv112:rc
Instrument : SV112
Quant Date : 12/7/2018 7:22 am

Compound #109: Benzo(b)fluoranthene



Original Peak Response = 267246



Manual Peak Response = 218051 M6

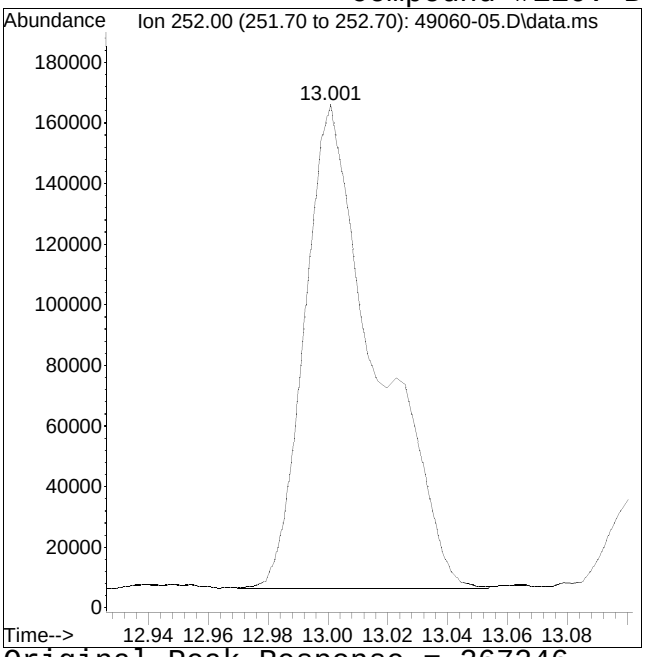
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

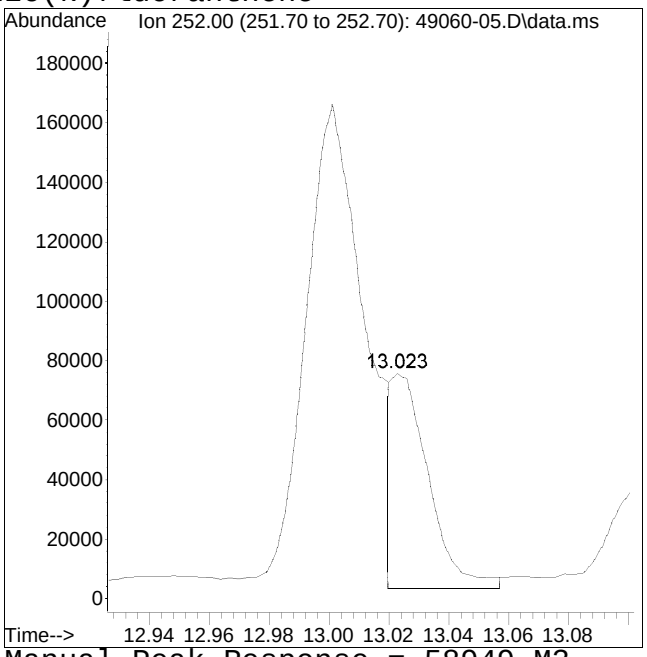
Manual Integration Report

Data Path : I:\8270\SV112\181206\
Data File : 49060-05.D
Date Inj'd : 12/7/2018 1:51 am
Sample : l1849060-05,32,,ny,ask

QMethod : FS181205SV112.m
Operator : sv112:rc
Instrument : SV112
Quant Date : 12/7/2018 7:22 am

Compound #110: Benzo(k)fluoranthene





Original Peak Response = 267246 Manual Peak Response = 58949 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181207a\
Data File : 49060-02.d
Acq On : 7 Dec 2018 8:17 pm
Operator : SV103:ek
Sample : l1849060-02d,32,5,ny,rv,ask
Misc : wg1186894,wg1184852,ical15305
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 09 07:54:58 2018
Quant Method : I:\8270\SV103\181207a\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 07 13:56:22 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\181207a\ABN1207a.d
: 2 - I:\8270\SV103\181207a\ADP1207b.d
: 3 - I:\8270\SV103\181207a\AP91207a.d
Sub List : 625NYDEP - BNA/PAH/PHT_625s

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.798	152	66649	40.000	ug/ml	0.00
Standard Area 1 = 78275			Recovery = 85.15%			
34) IS1_Naphthalene-d8	6.043	136	286427	40.000	ug/ml	0.00
Standard Area 1 = 335440			Recovery = 85.39%			
62) IS1_Acenaphthene-d10	7.753	164	134893	40.000	ug/ml	0.00
Standard Area 1 = 161684			Recovery = 83.43%			
87) IS1_Phenanthrene-d10	9.194	188	251431	40.000	ug/ml	0.00
Standard Area 1 = 303781			Recovery = 82.77%			
103) IS1_Chrysene-d12	12.072	240	204856	40.000	ug/ml	# 0.00
Standard Area 1 = 259933			Recovery = 78.81%			
112) IS1_Perylene-d12	14.229	264	205317	40.000	ug/ml	0.02
Standard Area 1 = 250796			Recovery = 81.87%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.537	112	12461	5.632	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 11.26%#			
7) Phenol-d6	4.497	99	15189	5.463	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 10.93%#			
19) Nitrobenzene-d5	5.347	82	7371	2.865	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 11.46%#			
45) 2-Fluorobiphenyl	7.114	172	13980	3.132	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 12.53%#			
78) 2,4,6-Tribromophenol	8.526	330	3558	6.360	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 12.72%#			
95) 4-Terphenyl-d14	10.802	244	11971	2.445	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 9.78%#			
Target Compounds						Qvalue
8) Phenol	4.508	94	1509	0.461	ug/ml#	49
35) Naphthalene	6.063	128	9243	1.313	ug/ml	96
107) Bis(2-ethylhexyl)phtha...	12.234	149	822514	172.784	ug/ml	100

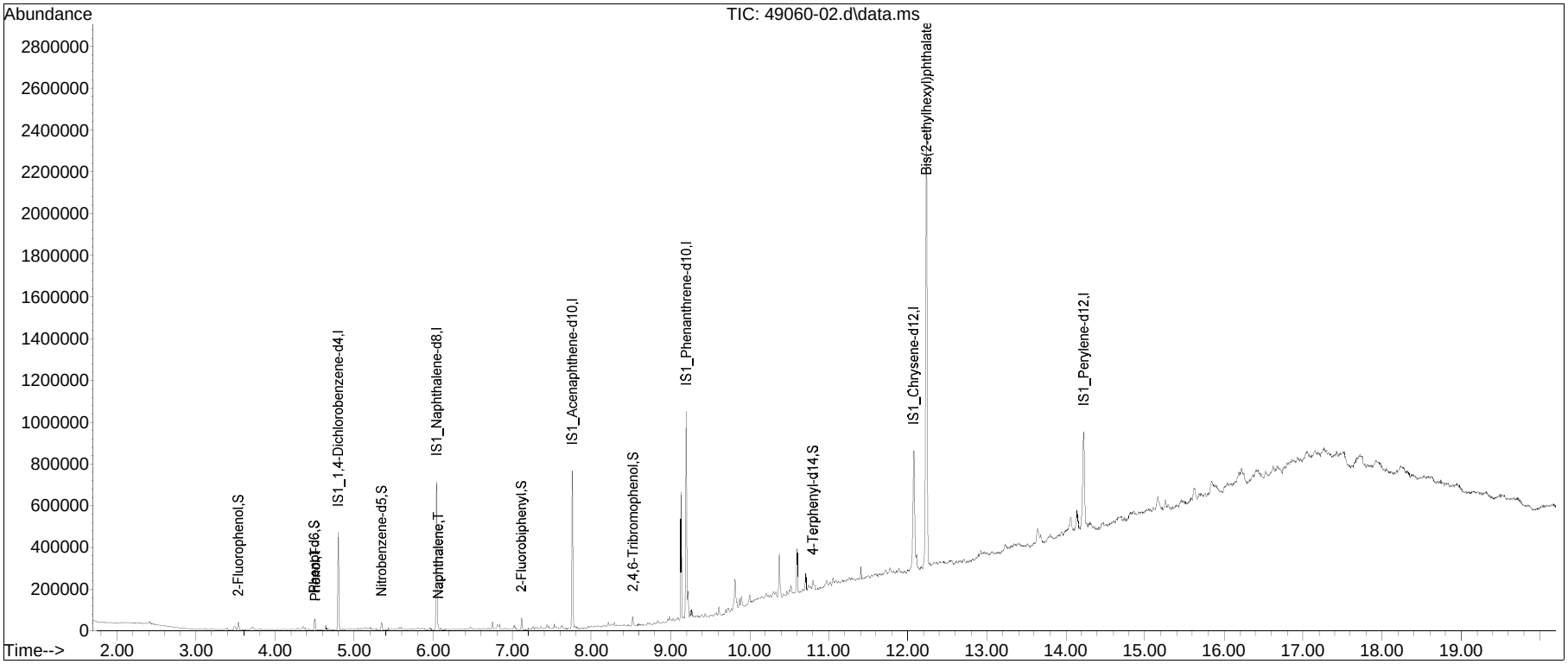
(#) = qualifier out of range (m) = manual integration (+) = signals summed

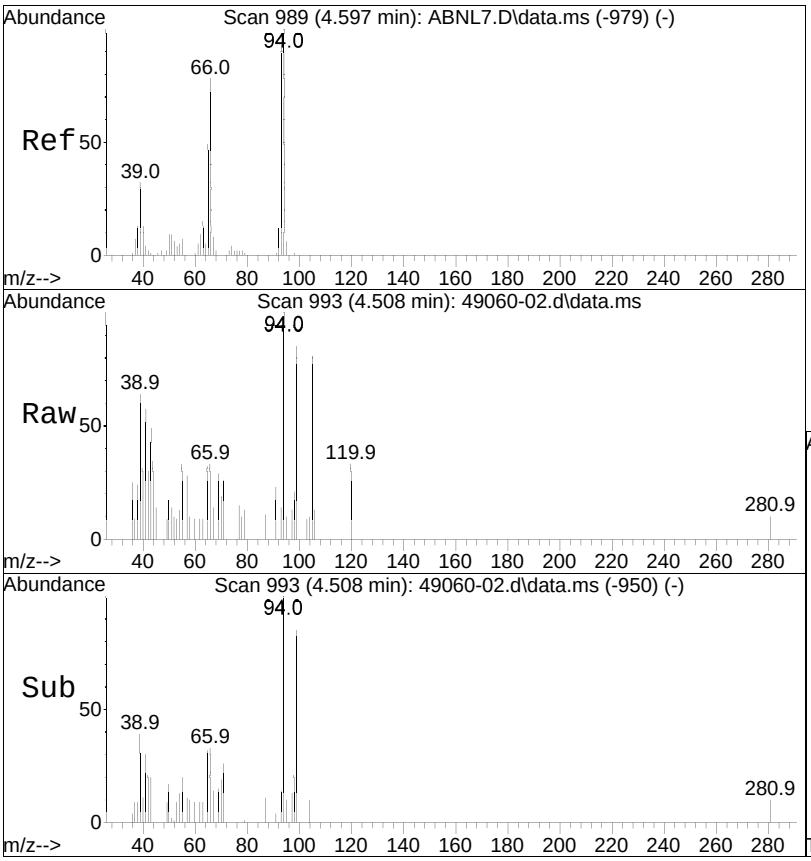
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181207a\
Data File : 49060-02.d
Acq On : 7 Dec 2018 8:17 pm
Operator : SV103:ek
Sample : l1849060-02d,32,5,ny,rv,ask
Misc : wg1186894,wg1184852,ical15305
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 09 07:54:58 2018
Quant Method : I:\8270\SV103\181207a\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 07 13:56:22 2018
Response via : Initial Calibration

Sub List : 625NYDEP - BNA/PAH/PHT_625sP91207a.d•

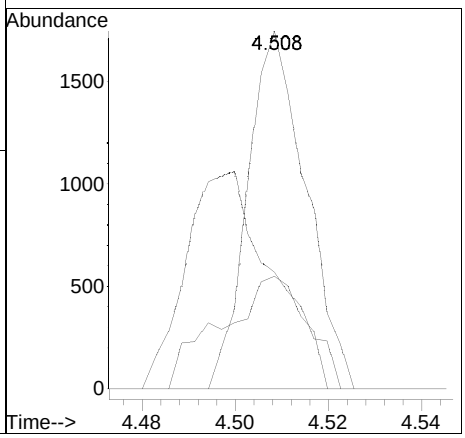


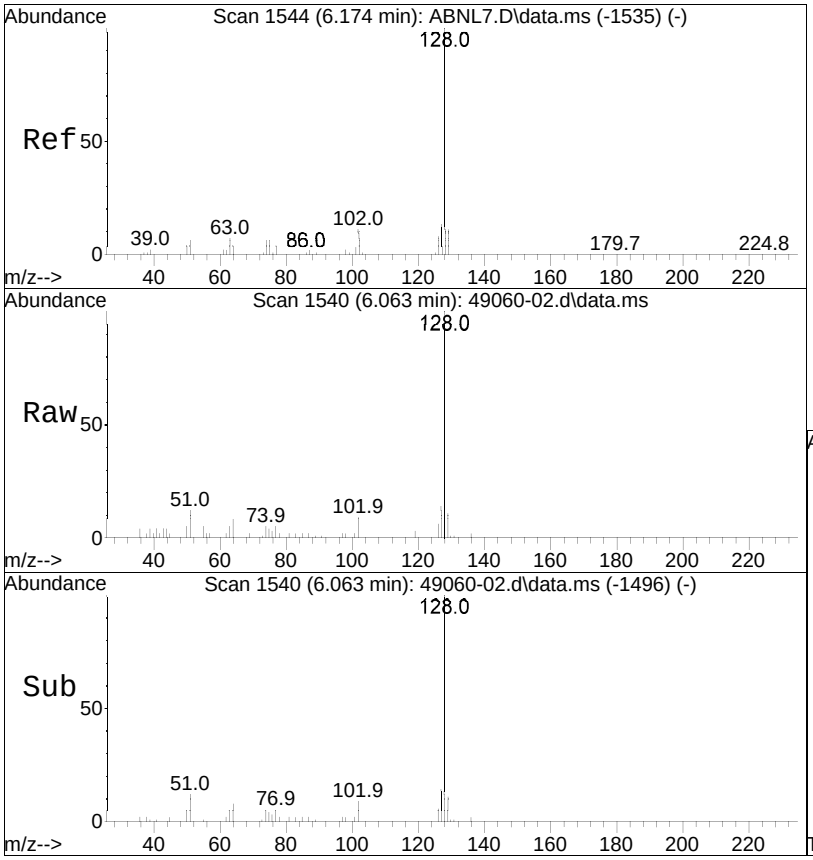


#8
Phenol
Concen: 0.46 ug/ml
RT: 4.508 min Scan# 993
Delta R.T. -0.003 min
Lab File: 49060-02.d
Acq: 7 Dec 2018 8:17 pm

Tgt Ion: 94 Resp: 1509

Ion	Ratio	Lower	Upper
94	100		
65	0.0	20.5	30.7#
66	92.5	0.0	0.0#

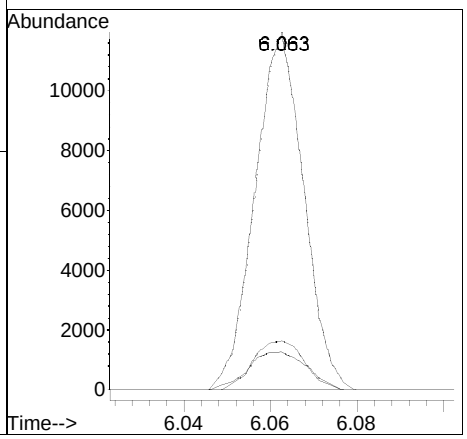


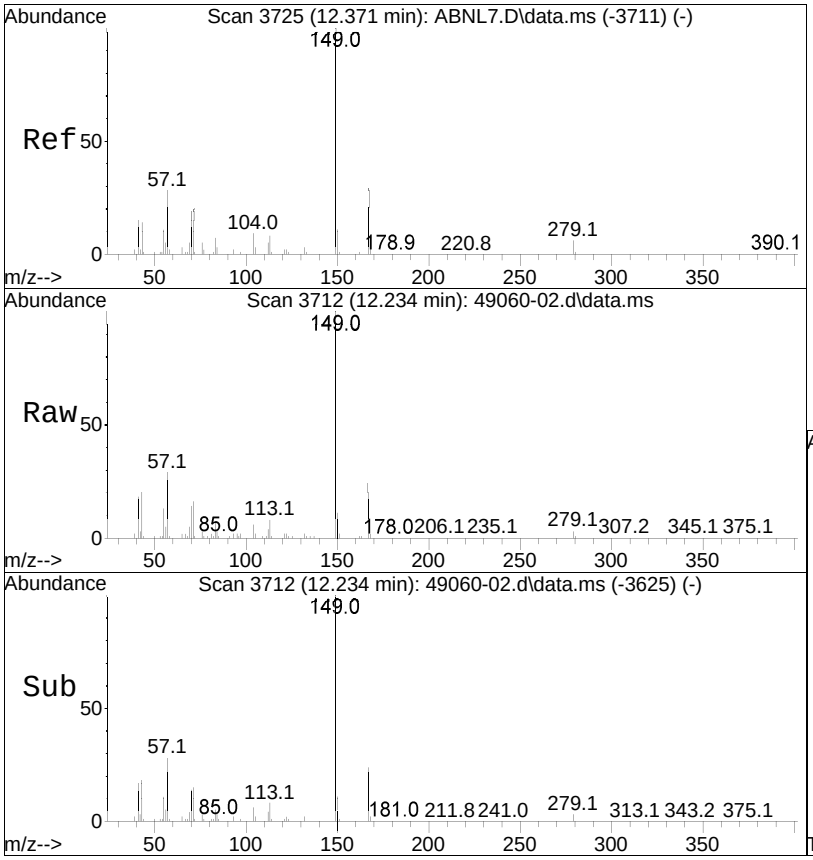


#35
Naphthalene
Concen: 1.31 ug/ml
RT: 6.063 min Scan# 1540
Delta R.T. 0.000 min
Lab File: 49060-02.d
Acq: 7 Dec 2018 8:17 pm

Tgt Ion:128 Resp: 9243

Ion	Ratio	Lower	Upper
128	100		
129	12.8	8.7	13.1
127	14.8	10.7	16.1

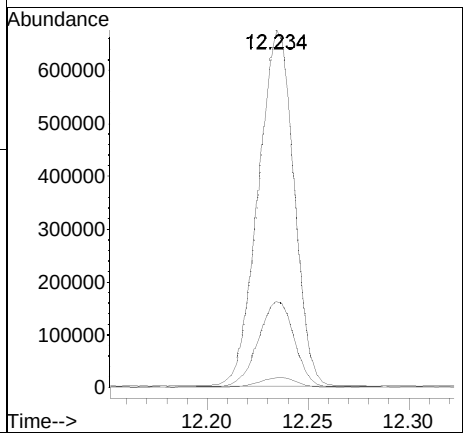




#107
Bis(2-ethylhexyl)phthalate
Concen: 172.78 ug/ml
RT: 12.234 min Scan# 3712
Delta R.T. -0.003 min
Lab File: 49060-02.d
Acq: 7 Dec 2018 8:17 pm

Tgt Ion:149 Resp: 822514

Ion	Ratio	Lower	Upper
149	100		
167	24.4	19.4	29.0
279	2.8	2.3	3.5



Manual Integration Report

Data Path	: I:\8270\SV103\181207a\	QMethod	: FS181204nSV103.m
Data File	: 49060-02.d	Operator	: SV103:ek
Date Inj'd	: 12/7/2018 8:17 pm	Instrument	: SV103
Sample	: l1849060-02d,32,5,ny,rv,as	Quant Date	: 12/9/2018 7:54 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181209\
Data File : 49060-03.d
Acq On : 9 Dec 2018 11:02 pm
Operator : SV103:rc
Sample : l1849060-03d,32,5,ny,rv,kr
Misc : wg1187317,wg1184852,ical15305
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 10 08:47:36 2018
Quant Method : I:\8270\SV103\181209\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 10 08:06:53 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\181209\ABN1209.d
: 2 - I:\8270\SV103\181209\ADP1209.d
: 3 - I:\8270\SV103\181209\AP91209.d
Sub List : 8270TCL_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	4.775	152	63842	40.000	ug/ml		0.00
Standard Area 1 = 67385			Recovery = 94.74%				
27) IS2_1,4-Dichlorobenzen...	4.775	152	63842	40.000	ug/ml		0.00
Standard Area 3 = 68471			Recovery = 93.24%				
34) IS1_Naphthalene-d8	6.020	136	273332	40.000	ug/ml		0.00
Standard Area 1 = 288220			Recovery = 94.83%				
54) IS2_Naphthalene-d8	6.020	136	273332	40.000	ug/ml		0.00
Standard Area 3 = 296762			Recovery = 92.10%				
62) IS1_Acenaphthene-d10	7.731	164	120026	40.000	ug/ml		0.00
Standard Area 1 = 144644			Recovery = 82.98%				
82) IS2_Acenaphthene-d10	7.731	164	120026	40.000	ug/ml		0.00
Standard Area 3 = 152009			Recovery = 78.96%				
85) IS3_Acenaphthene-d10	7.731	164	120026	40.000	ug/ml		0.00
Standard Area 2 = 132109			Recovery = 90.85%				
87) IS1_Phenanthrene-d10	9.168	188	208772	40.000	ug/ml		0.00
Standard Area 1 = 243640			Recovery = 85.69%				
99) IS3_Phenanthrene-d10	9.168	188	208772	40.000	ug/ml		0.00
Standard Area 2 = 225714			Recovery = 92.49%				
103) IS1_Chrysene-d12	12.041	240	165267	40.000	ug/ml	#	0.00
Standard Area 1 = 211435			Recovery = 78.16%				
112) IS1_Perylene-d12	14.198	264	171800	40.000	ug/ml		0.02
Standard Area 1 = 215613			Recovery = 79.68%				
System Monitoring Compounds							
4) 2-Fluorophenol	3.508	112	10143	4.786	ug/ml		0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 9.57%#				
7) Phenol-d6	4.471	99	12894	4.841	ug/ml		0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 9.68%#				
19) Nitrobenzene-d5	5.324	82	2091	0.849	ug/ml		0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 3.40%#				
45) 2-Fluorobiphenyl	7.091	172	12489	2.932	ug/ml		0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 11.73%#				
78) 2,4,6-Tribromophenol	8.498	330	3024	6.075	ug/ml		0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 12.15%#				
95) 4-Terphenyl-d14	10.774	244	10490	2.581	ug/ml		0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 10.32%#				

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181209\
Data File : 49060-03.d
Acq On : 9 Dec 2018 11:02 pm
Operator : SV103:rc
Sample : l1849060-03d,32,5,ny,rv,kr
Misc : wg1187317,wg1184852,ical15305
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 10 08:47:36 2018
Quant Method : I:\8270\SV103\181209\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 10 08:06:53 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\181209\ABN1209.d
: 2 - I:\8270\SV103\181209\ADP1209.d
: 3 - I:\8270\SV103\181209\AP91209.d
Sub List : 8270TCL_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	4.483	94	3591	1.146	ug/ml#	84
9) Bis(2-chloroethyl)ether	0.000		0	N.D.		
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
16) Hexachloroethane	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.		
18) 3-Methylphenol/4-Methy...	5.224	108	45865	21.037	ug/ml	91
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D. d		
29) Acetophenone	0.000		0	N.D. d		
35) Naphthalene	6.037	128	6933	1.032	ug/ml#	86
37) 4-Chloroaniline	0.000		0	N.D.		
38) Hexachlorobutadiene	0.000		0	N.D.		
39) p-Chloro-m-cresol	0.000		0	N.D.		
40) 2-Methylnaphthalene	6.722	142	3537	0.797	ug/ml	95
42) Hexachlorocyclopentadiene	0.000		0	N.D.		
43) 2,4,6-Trichlorophenol	0.000		0	N.D.		
44) 2,4,5-Trichlorophenol	0.000		0	N.D.		
46) 2-Chloronaphthalene	0.000		0	N.D.		
47) 2-Nitroaniline	0.000		0	N.D.		
50) Dimethyl phthalate	0.000		0	N.D. d		
51) Acenaphthylene	7.588	152	2366	0.374	ug/ml#	60
52) 2,6-Dinitrotoluene	0.000		0	N.D.		
59) Caprolactam	0.000		0	N.D. d		
60) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
61) Biphenyl	0.000		0	N.D.		
63) 3-Nitroaniline	0.000		0	N.D.		
64) Acenaphthene	7.762	154	1605	0.444	ug/ml#	75
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	7.929	168	2348	0.446	ug/ml	95

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181209\
Data File : 49060-03.d
Acq On : 9 Dec 2018 11:02 pm
Operator : SV103:rc
Sample : l1849060-03d,32,5,ny,rv,kr
Misc : wg1187317,wg1184852,ical15305
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 10 08:47:36 2018
Quant Method : I:\8270\SV103\181209\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 10 08:06:53 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\181209\ABN1209.d
: 2 - I:\8270\SV103\181209\ADP1209.d
: 3 - I:\8270\SV103\181209\AP91209.d
Sub List : 8270TCL_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
67) 2,4-Dinitrotoluene	0.000		0	N.D.		
68) 4-Nitrophenol	0.000		0	N.D.		
70) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
71) Diethyl phthalate	0.000		0	N.D.		
72) Fluorene	8.262	166	2465	0.582	ug/ml#	79
73) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
74) 4-Nitroaniline	0.000		0	N.D.		
75) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
76) NDPA/DPA	0.000		0	N.D.	d	
79) 4-Bromophenyl phenyl e...	0.000		0	N.D.		
80) Hexachlorobenzene	0.000		0	N.D.		
81) Pentachlorophenol	0.000		0	N.D.		
86) Atrazine	0.000		0	N.D.	d	
88) Phenanthrene	9.188	178	30951	5.377	ug/ml	99
89) Anthracene	9.239	178	7352	1.284	ug/ml#	77
90) Carbazole	9.410	167	5033	0.948	ug/ml#	87
91) Di-n-butylphthalate	0.000		0	N.D.	d	
92) Fluoranthene	10.350	202	52427	9.301	ug/ml	98
94) Pyrene	10.572	202	44713	7.651	ug/ml	96
96) Butyl benzyl phthalate	0.000		0	N.D.	d	
104) Benzo(a)anthracene	12.027	228	17642	3.627	ug/ml	94
105) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
106) Chrysene	12.072	228	26034	5.669	ug/ml	97
107) Bis(2-ethylhexyl)phtha...	12.200	149	384219	100.046	ug/ml	99
108) Di-n-octylphthalate	0.000		0	N.D.	d	
109) Benzo(b)fluoranthene	13.615	252	32774	7.362	ug/ml#	90
110) Benzo(k)fluoranthene	13.652	252	9992M1	2.235	ug/ml	
111) Benzo(a)pyrene	14.101	252	13847	3.208	ug/ml#	79
113) Indeno(1,2,3-cd)pyrene	15.812	276	14271	3.313	ug/mL#	78
114) Dibenzo(a,h)anthracene	15.857	278	3456M4	0.785	ug/ml	
115) Benzo(ghi)perylene	16.190	276	13916	3.047	ug/ml	98

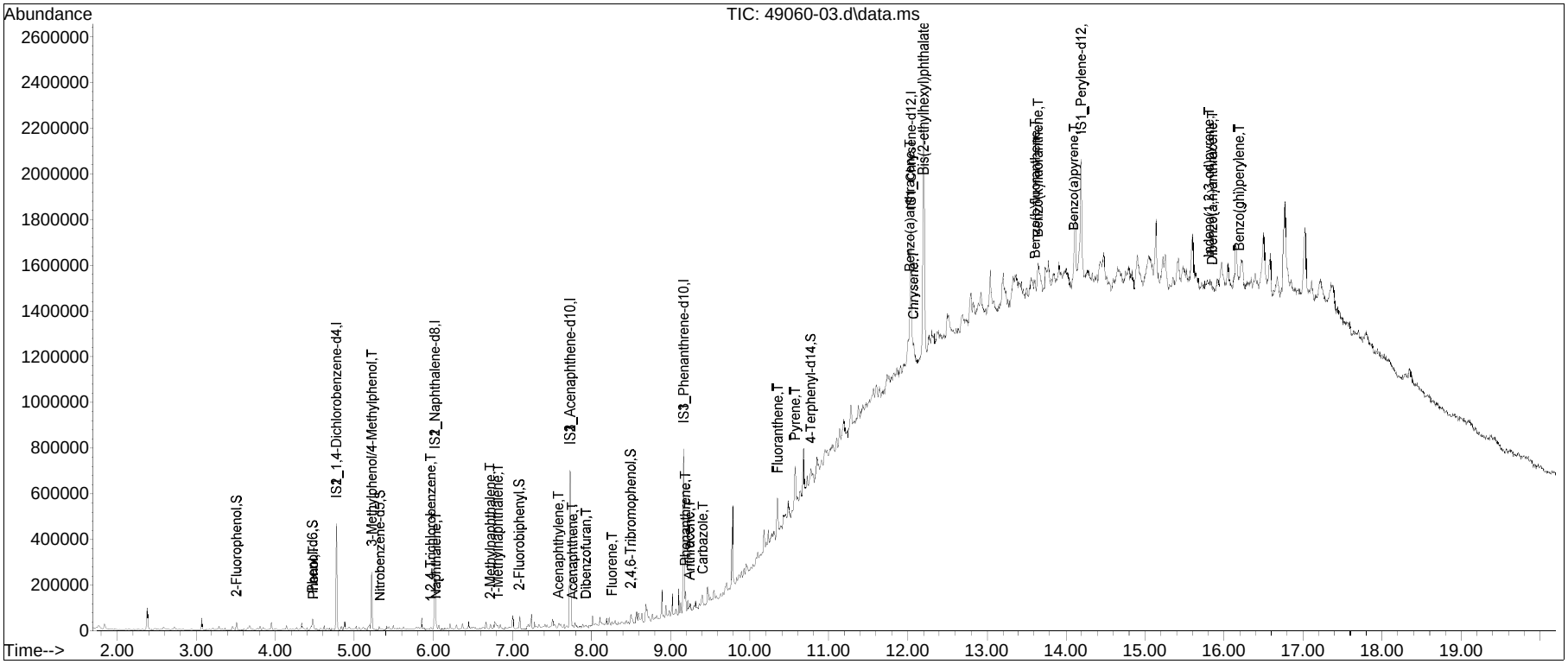
(#) = qualifier out of range (m) = manual integration (+) = signals summed

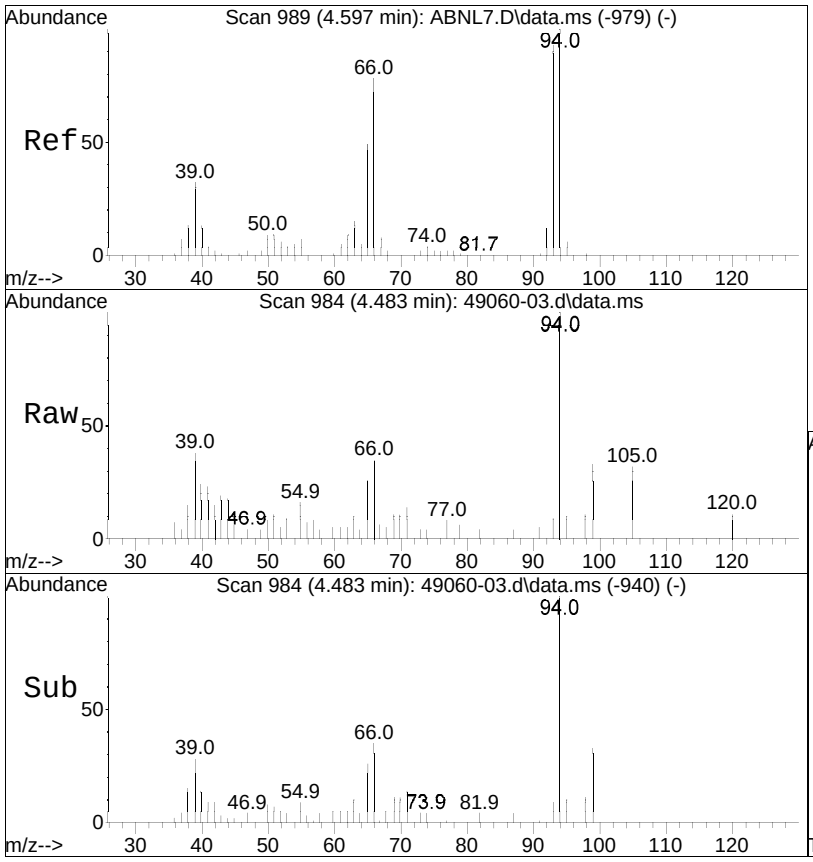
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181209\
Data File : 49060-03.d
Acq On : 9 Dec 2018 11:02 pm
Operator : SV103:rc
Sample : l1849060-03d,32,5,ny,rv,kr
Misc : wg1187317,wg1184852,ical15305
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 10 08:47:36 2018
Quant Method : I:\8270\SV103\181209\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 10 08:06:53 2018
Response via : Initial Calibration

Sub List : 8270TCL_REV1 - TCL/CT/MA\AP91209.d•

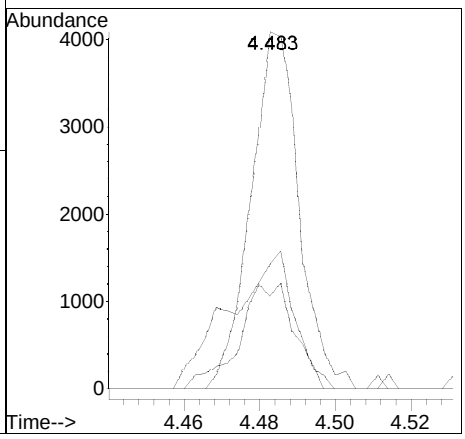


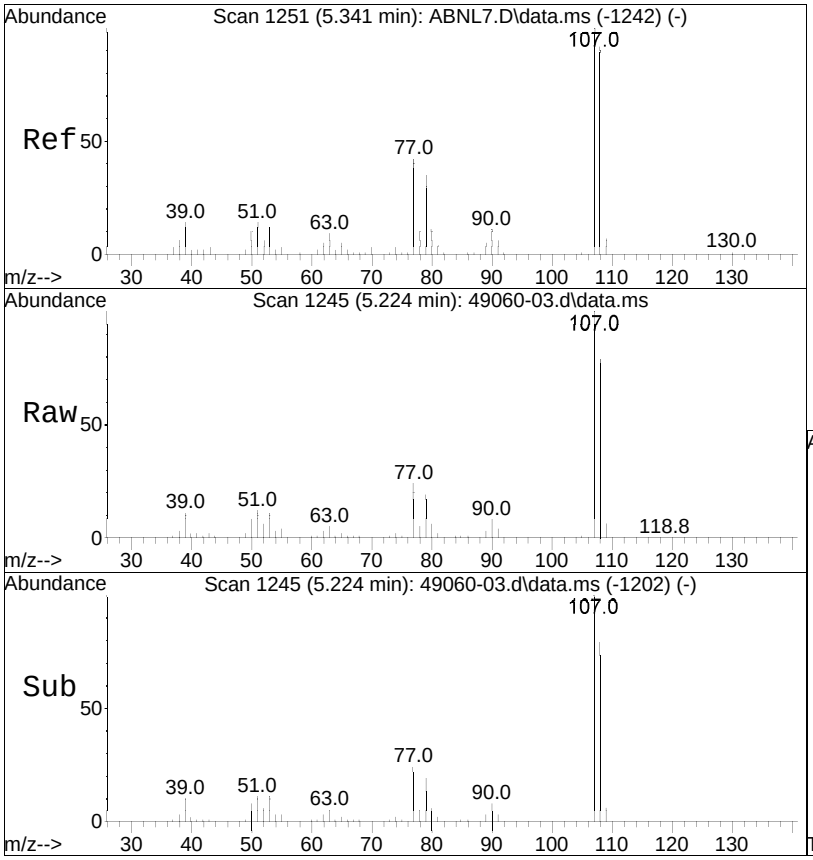


#8
Phenol
Concen: 1.15 ug/ml
RT: 4.483 min Scan# 984
Delta R.T. -0.000 min
Lab File: 49060-03.d
Acq: 9 Dec 2018 11:02 pm

Tgt Ion: 94 Resp: 3591

Ion	Ratio	Lower	Upper
94	100		
65	33.8	20.5	30.7#
66	51.9	0.0	0.0#

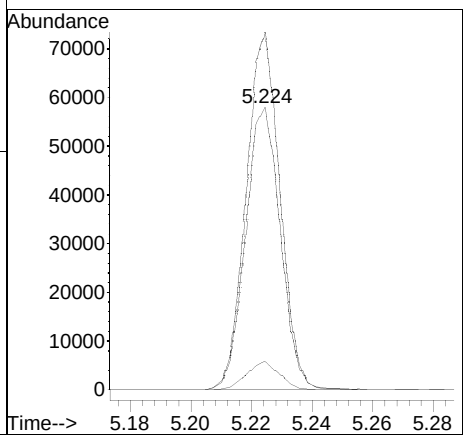


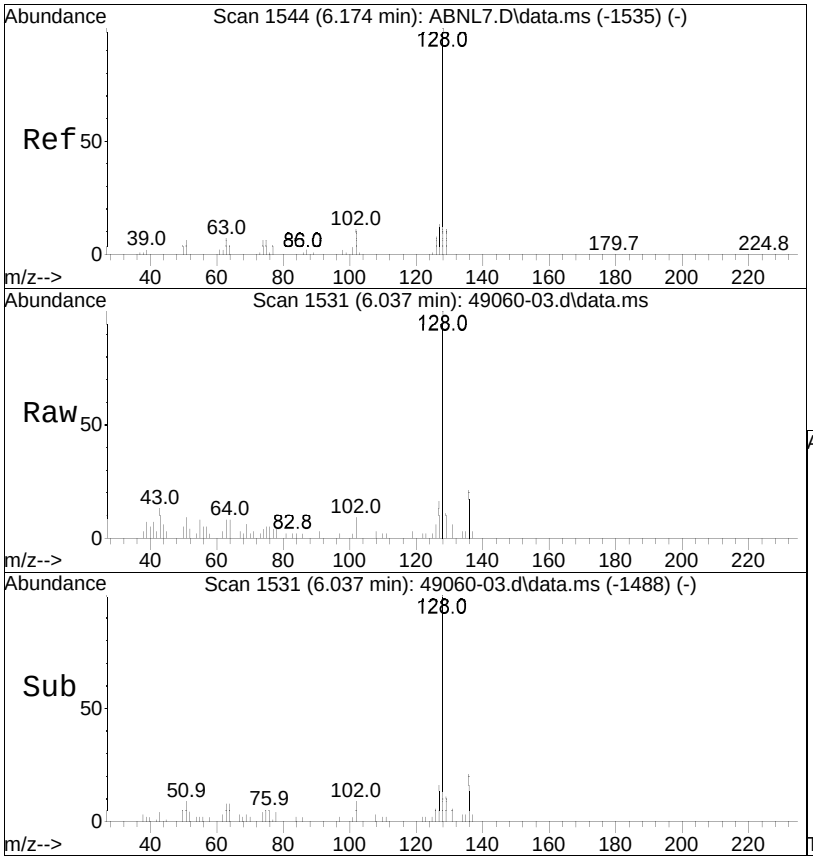


#18
3-Methylphenol/4-Methylphenol
Concen: 21.04 ug/ml
RT: 5.224 min Scan# 1245
Delta R.T. -0.003 min
Lab File: 49060-03.d
Acq: 9 Dec 2018 11:02 pm

Tgt Ion:108 Resp: 45865

Ion	Ratio	Lower	Upper
108	100		
107	123.0	90.4	135.6
90	9.6	9.2	13.8

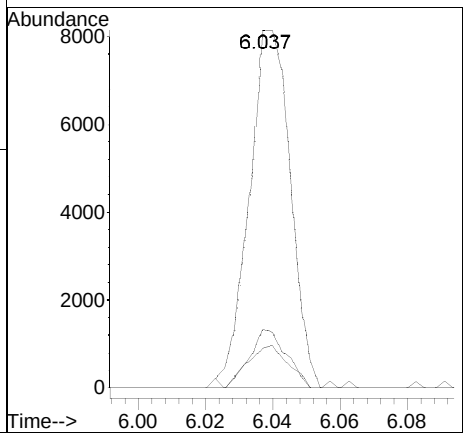


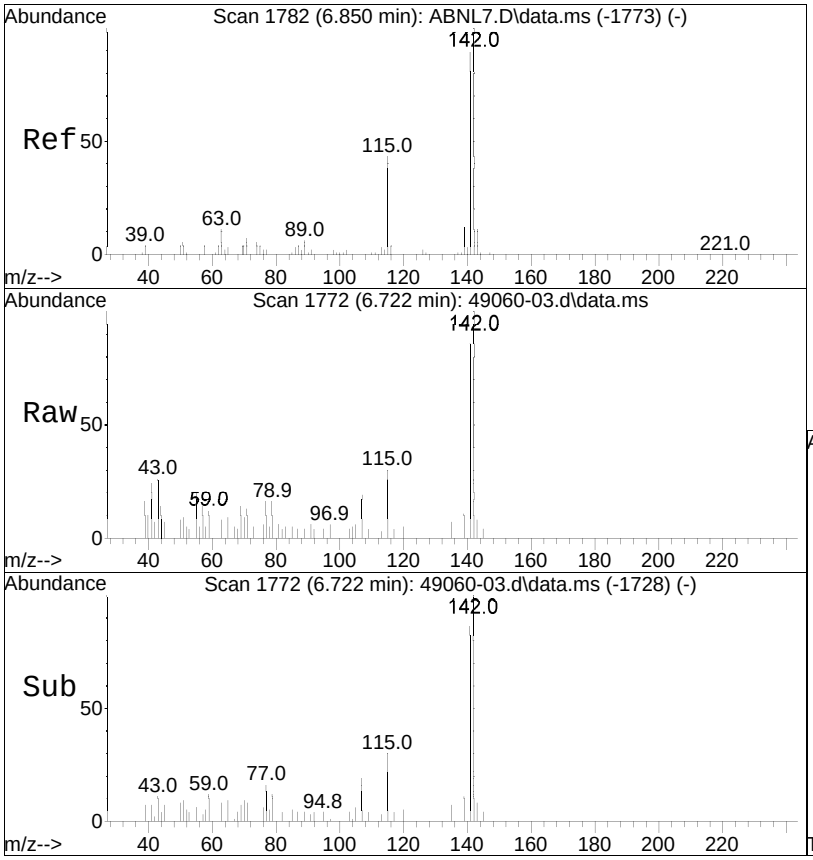


#35
Naphthalene
Concen: 1.03 ug/ml
RT: 6.037 min Scan# 1531
Delta R.T. -0.003 min
Lab File: 49060-03.d
Acq: 9 Dec 2018 11:02 pm

Tgt Ion:128 Resp: 6933

Ion	Ratio	Lower	Upper
128	100		
129	0.0	8.7	13.1#
127	14.5	10.7	16.1

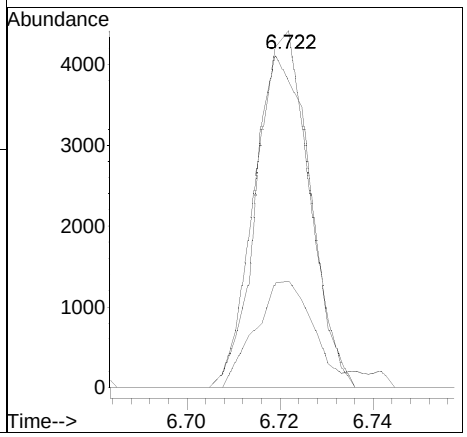


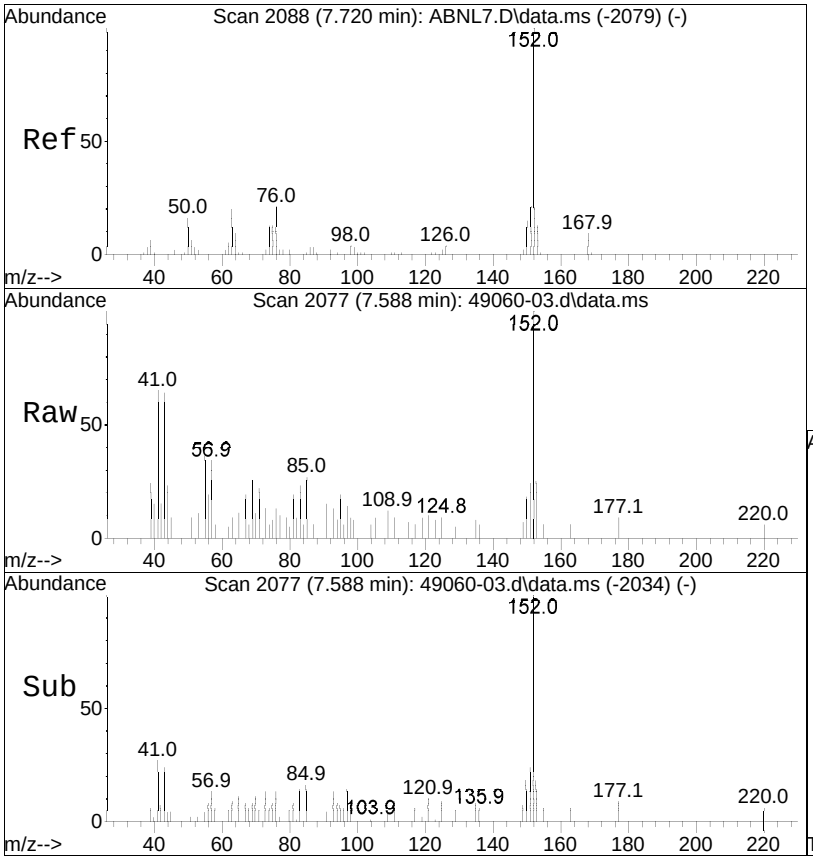


#40
2-Methylnaphthalene
Concen: 0.80 ug/ml
RT: 6.722 min Scan# 1772
Delta R.T. -0.000 min
Lab File: 49060-03.d
Acq: 9 Dec 2018 11:02 pm

Tgt Ion:142 Resp: 3537

Ion	Ratio	Lower	Upper
142	100		
141	95.6	71.8	107.8
115	35.1	29.1	43.7

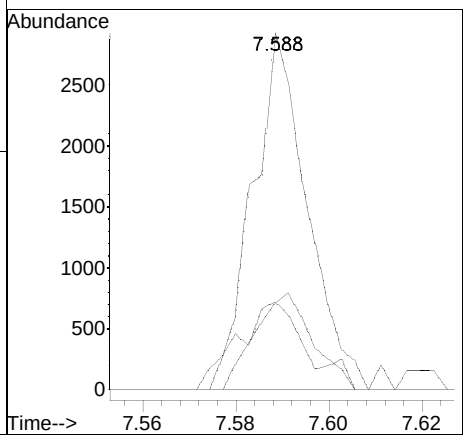


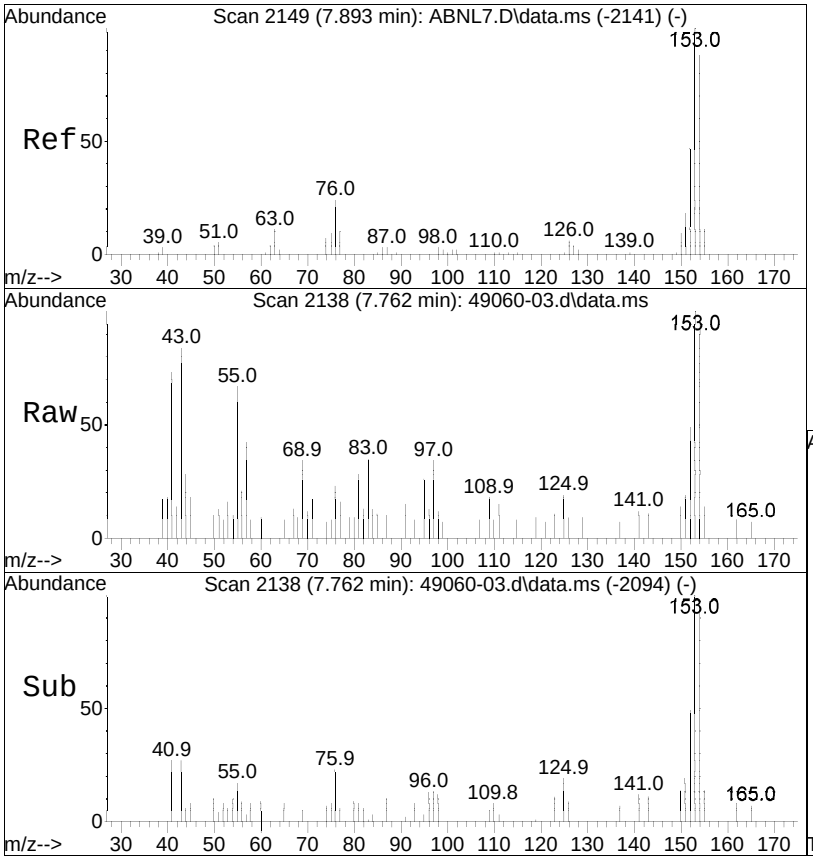


#51
Acenaphthylene
Concen: 0.37 ug/ml
RT: 7.588 min Scan# 2077
Delta R.T. -0.003 min
Lab File: 49060-03.d
Acq: 9 Dec 2018 11:02 pm

Tgt Ion:152 Resp: 2366

Ion	Ratio	Lower	Upper
152	100		
151	0.0	16.4	24.6#
153	0.0	11.0	16.6#

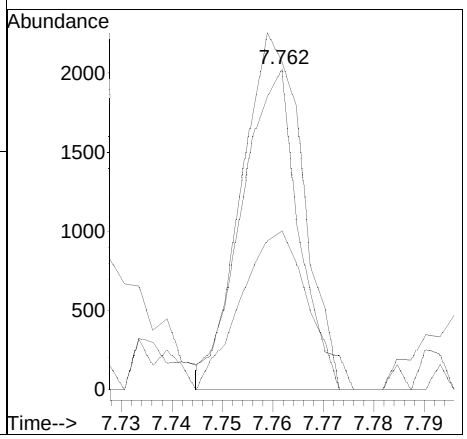


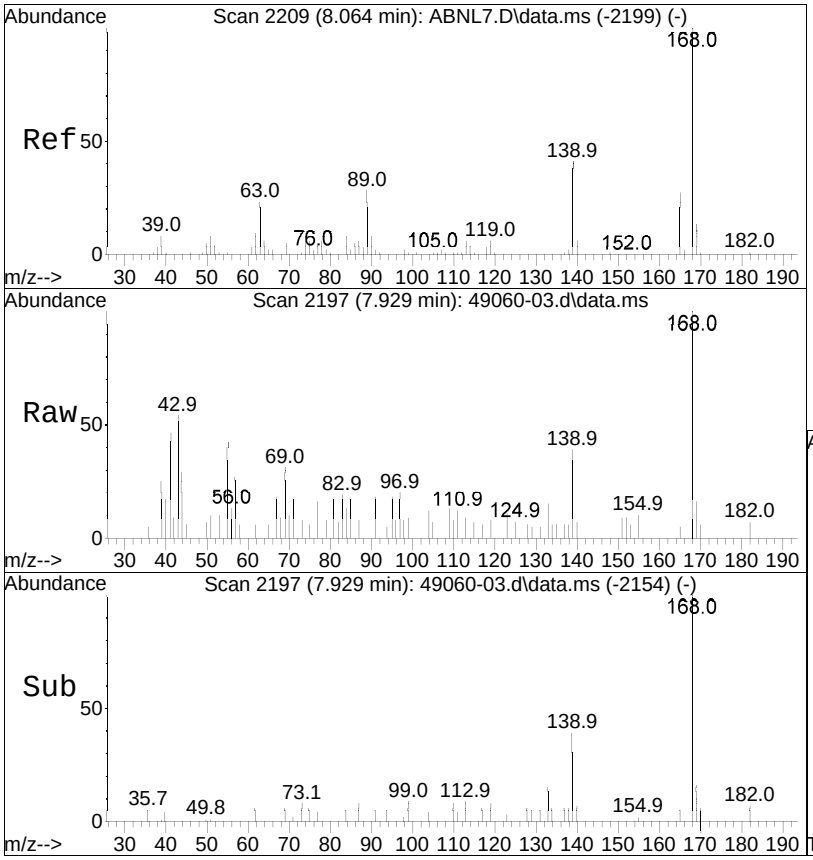


#64
Acenaphthene
Concen: 0.44 ug/ml
RT: 7.762 min Scan# 2138
Delta R.T. -0.000 min
Lab File: 49060-03.d
Acq: 9 Dec 2018 11:02 pm

Tgt Ion:154 Resp: 1605

Ion	Ratio	Lower	Upper
154	100		
153	118.3	91.3	136.9
152	0.0	41.0	61.4#

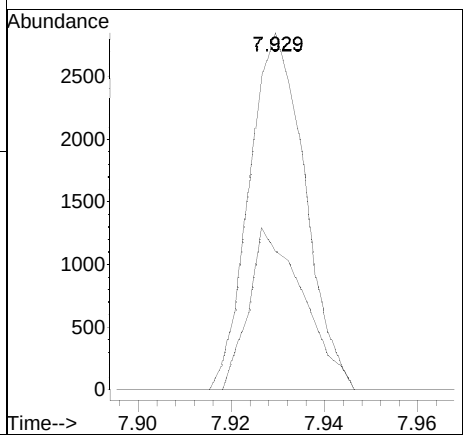


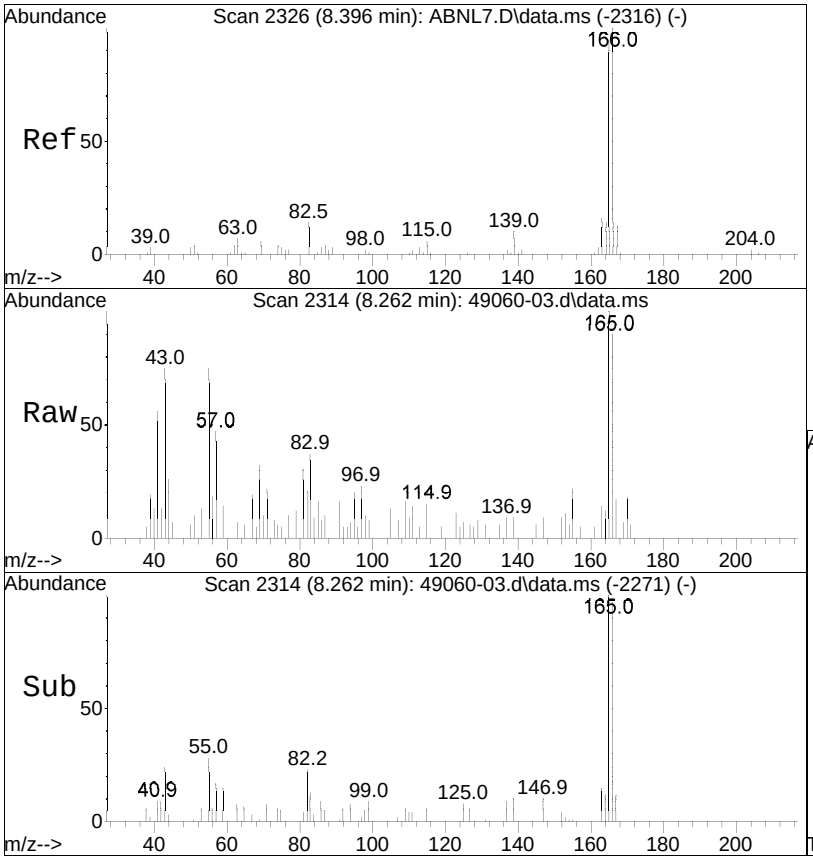


#66
Dibenzofuran
Concen: 0.45 ug/ml
RT: 7.929 min Scan# 2197
Delta R.T. -0.003 min
Lab File: 49060-03.d
Acq: 9 Dec 2018 11:02 pm

Tgt Ion:168 Resp: 2348

Ion	Ratio	Lower	Upper
168	100		
139	44.6	33.2	49.8

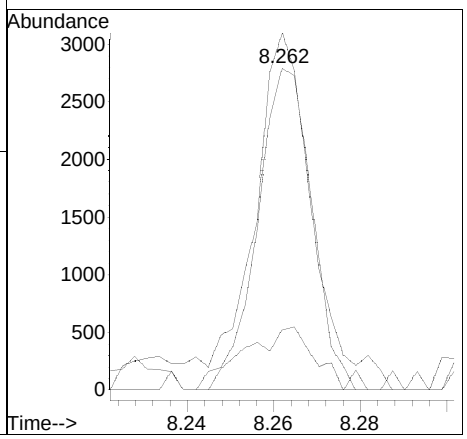


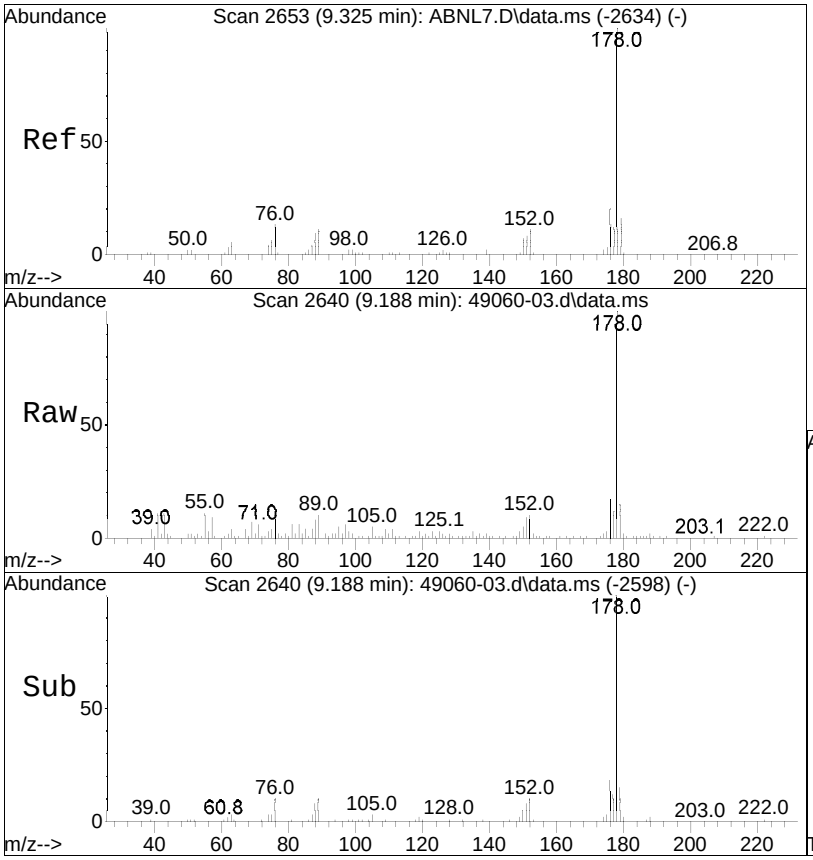


#72
Fluorene
Concen: 0.58 ug/ml
RT: 8.262 min Scan# 2314
Delta R.T. -0.003 min
Lab File: 49060-03.d
Acq: 9 Dec 2018 11:02 pm

Tgt Ion:166 Resp: 2465

Ion	Ratio	Lower	Upper
166	100		
165	118.9	79.3	118.9
167	0.0	10.6	16.0#

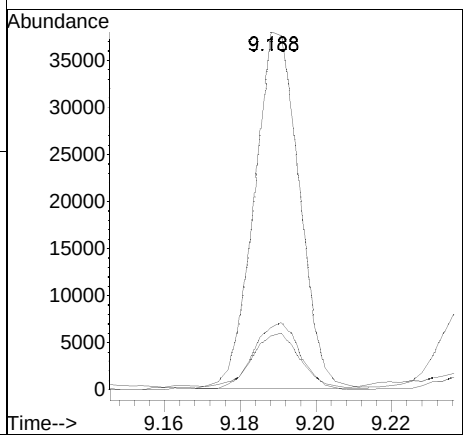


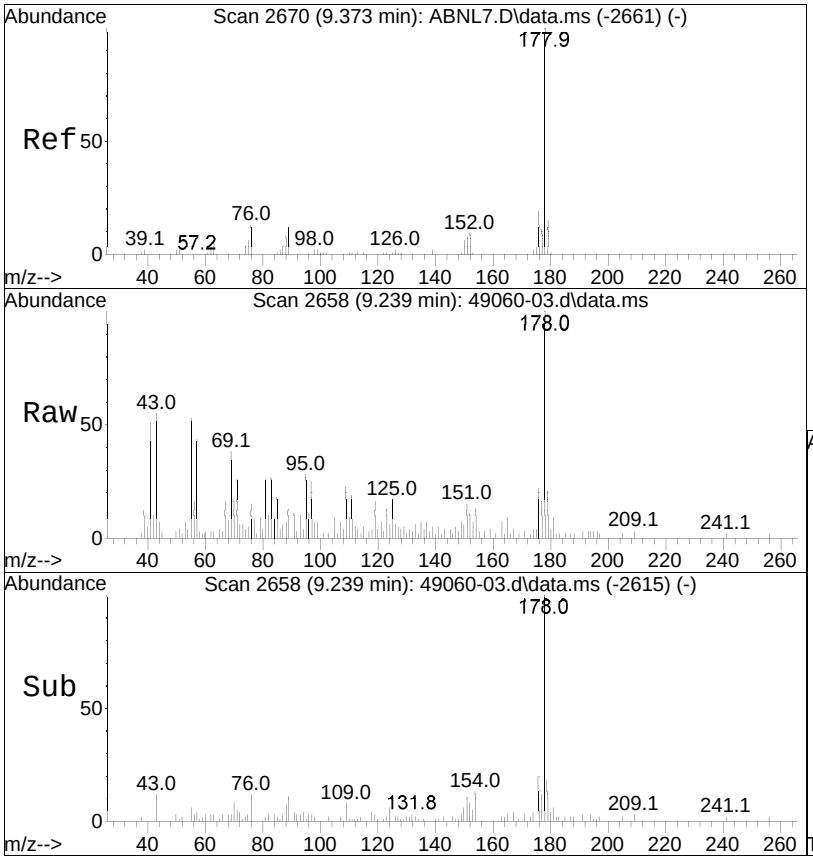


#88
Phenanthrene
Concen: 5.38 ug/ml
RT: 9.188 min Scan# 2640
Delta R.T. -0.006 min
Lab File: 49060-03.d
Acq: 9 Dec 2018 11:02 pm

Tgt Ion:178 Resp: 30951

Ion	Ratio	Lower	Upper
178	100		
179	16.0	12.2	18.2
176	19.8	15.4	23.2

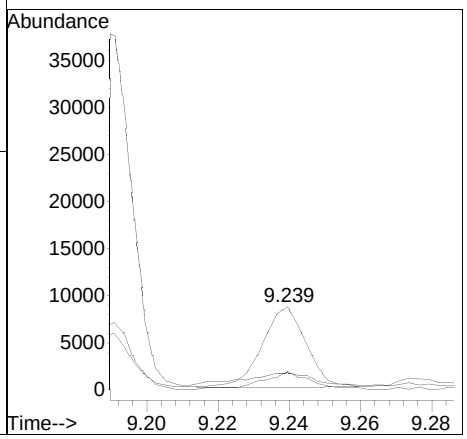


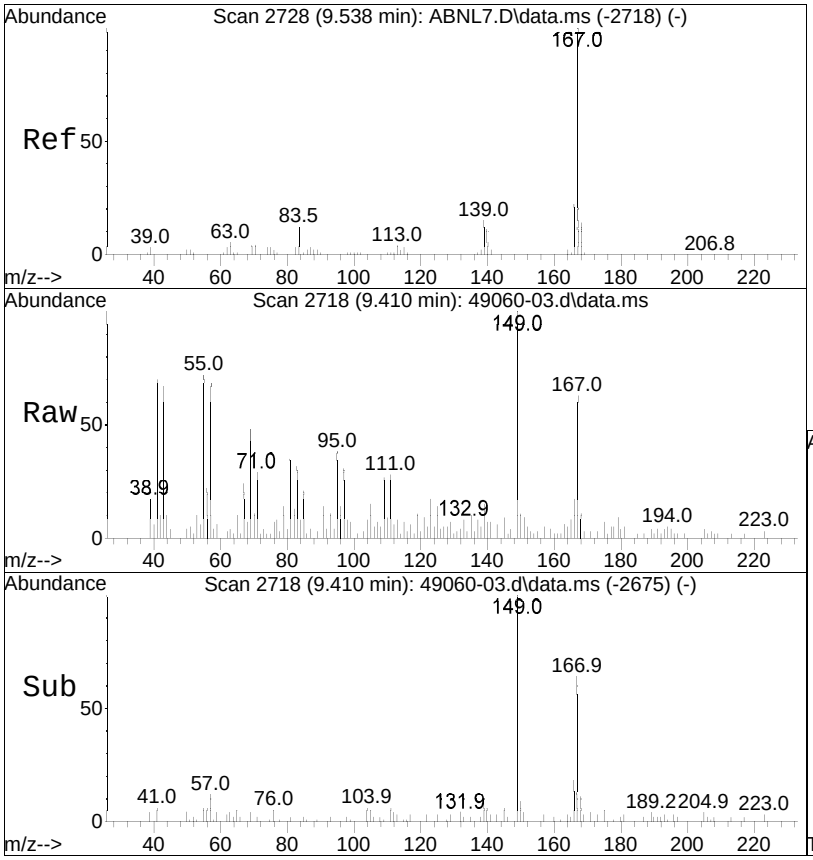


#89
Anthracene
Concen: 1.28 ug/ml
RT: 9.239 min Scan# 2658
Delta R.T. -0.003 min
Lab File: 49060-03.d
Acq: 9 Dec 2018 11:02 pm

Tgt Ion:178 Resp: 7352

Ion	Ratio	Lower	Upper
178	100		
179	30.7	12.1	18.1#
176	23.5	14.8	22.2#

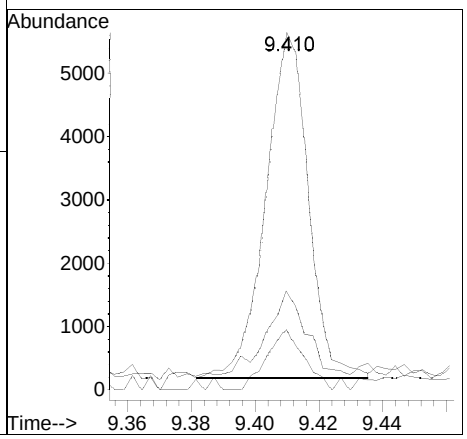


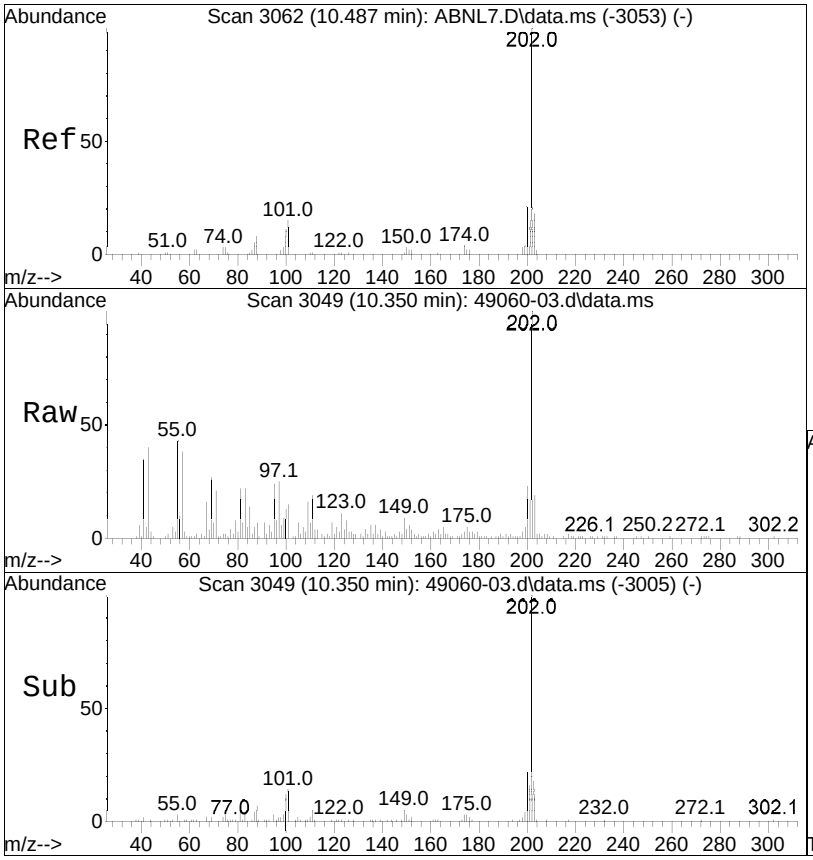


#90
Carbazole
Concen: 0.95 ug/ml
RT: 9.410 min Scan# 2718
Delta R.T. -0.003 min
Lab File: 49060-03.d
Acq: 9 Dec 2018 11:02 pm

Tgt Ion:167 Resp: 5033

Ion	Ratio	Lower	Upper
167	100		
168	0.0	10.6	15.8#
166	22.3	17.7	26.5

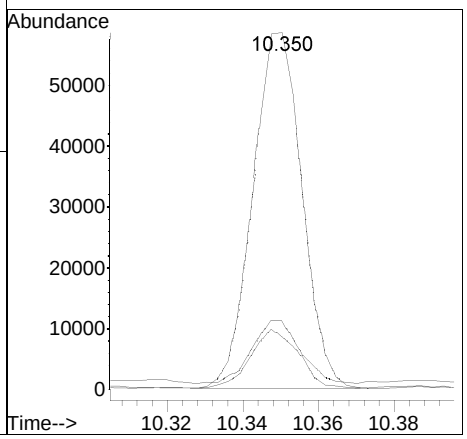


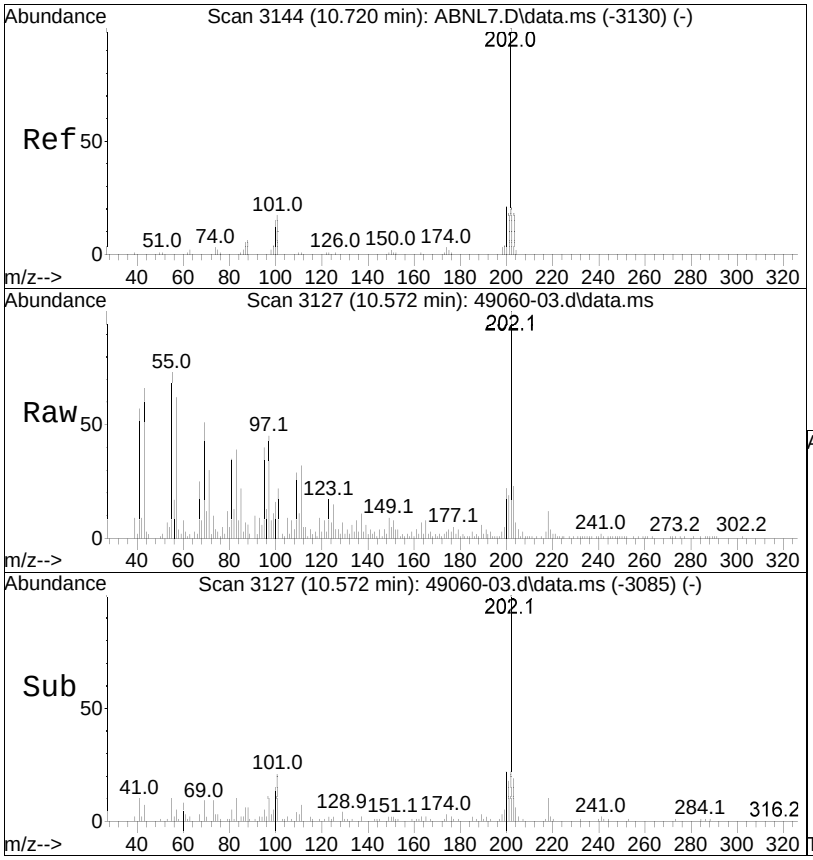


#92
Fluoranthene
Concen: 9.30 ug/ml
RT: 10.350 min Scan# 3049
Delta R.T. -0.000 min
Lab File: 49060-03.d
Acq: 9 Dec 2018 11:02 pm

Tgt Ion:202 Resp: 52427

Ion	Ratio	Lower	Upper
202	100		
101	16.2	11.4	17.0
203	17.5	13.9	20.9

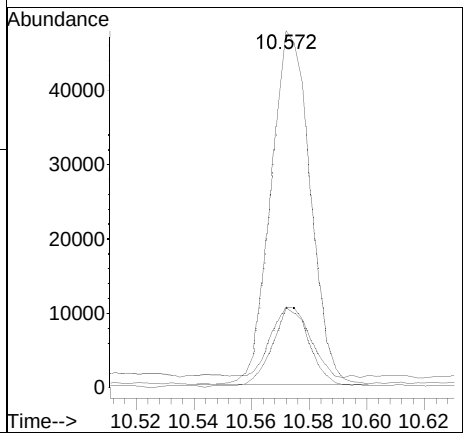


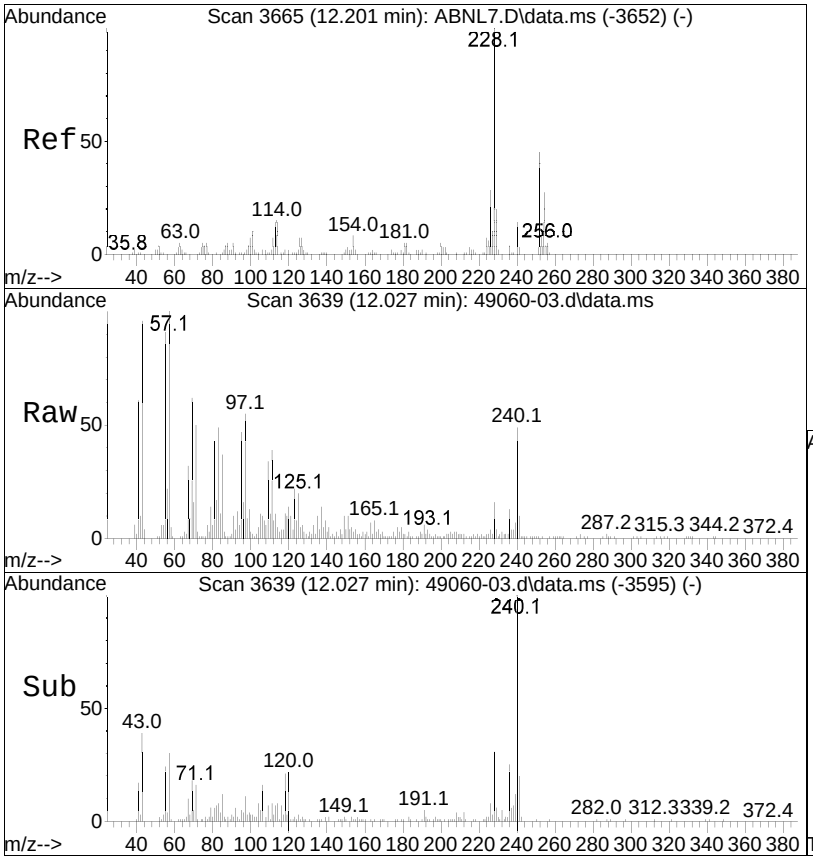


#94
Pyrene
Concen: 7.65 ug/ml
RT: 10.572 min Scan# 3127
Delta R.T. -0.006 min
Lab File: 49060-03.d
Acq: 9 Dec 2018 11:02 pm

Tgt Ion:202 Resp: 44713

Ion	Ratio	Lower	Upper
202	100		
200	22.5	17.0	25.4
203	20.5	14.2	21.2

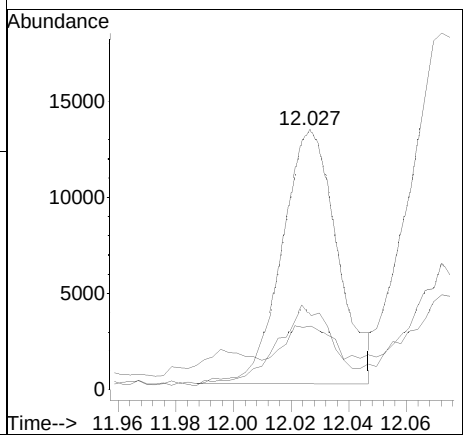


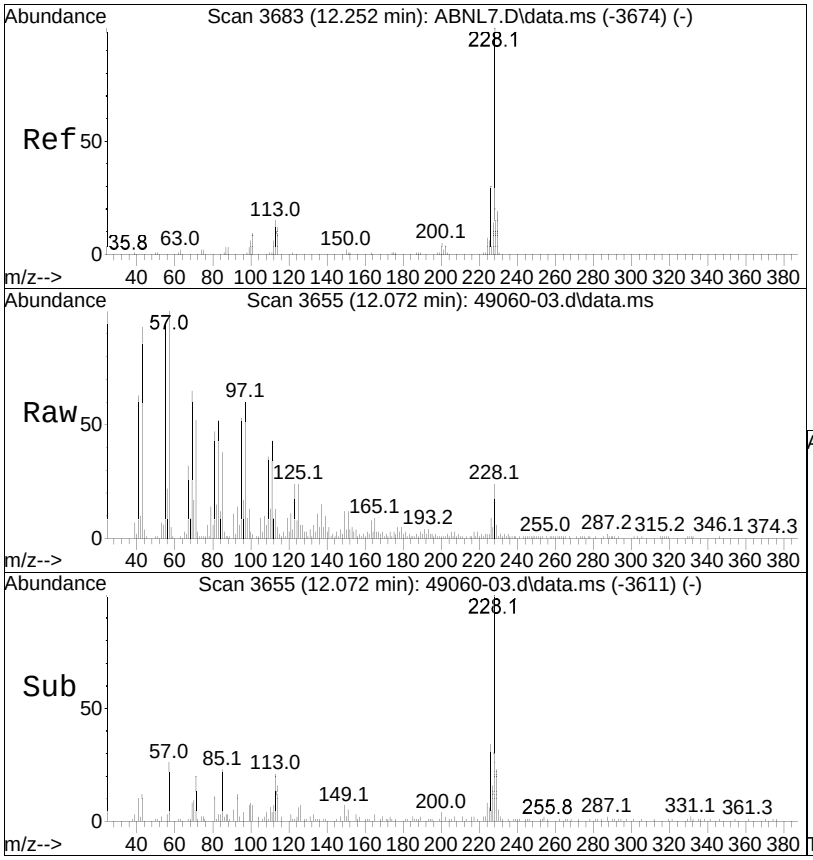


#104
Benzo(a)anthracene
Concen: 3.63 ug/ml
RT: 12.027 min Scan# 3639
Delta R.T. -0.000 min
Lab File: 49060-03.d
Acq: 9 Dec 2018 11:02 pm

Tgt Ion:228 Resp: 17642

Ion	Ratio	Lower	Upper
228	100		
226	32.5	22.2	33.2
229	18.7	15.6	23.4

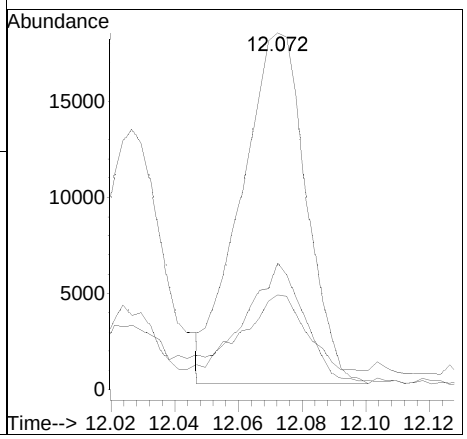


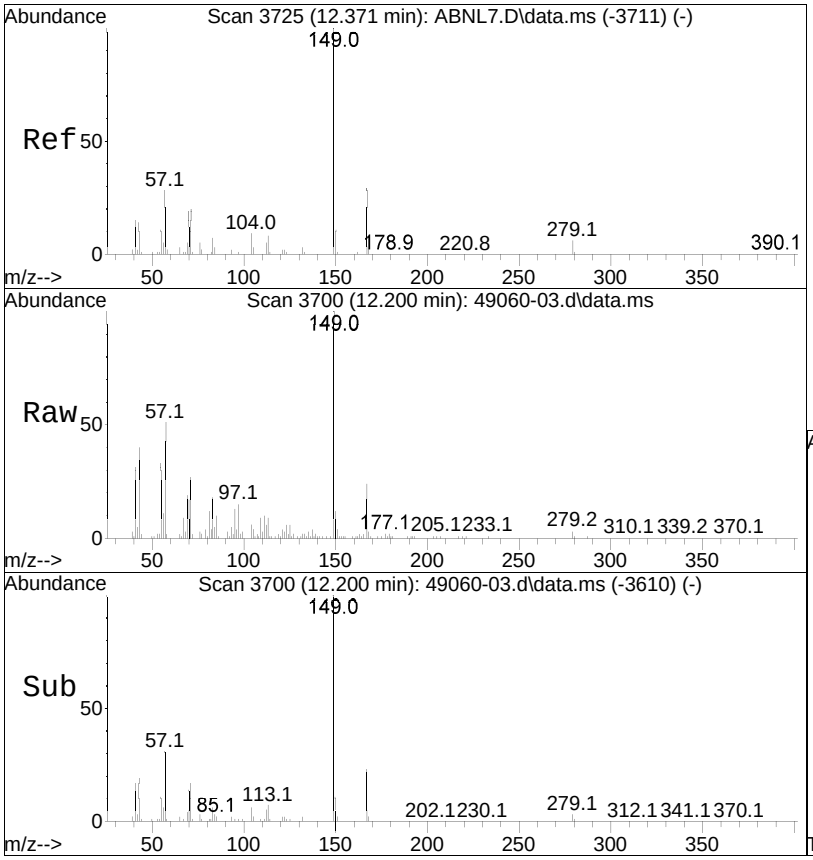


#106
Chrysene
Concen: 5.67 ug/ml
RT: 12.072 min Scan# 3655
Delta R.T. -0.000 min
Lab File: 49060-03.d
Acq: 9 Dec 2018 11:02 pm

Tgt Ion:228 Resp: 26034

Ion	Ratio	Lower	Upper
228	100		
226	33.3	24.6	37.0
229	20.1	15.8	23.6

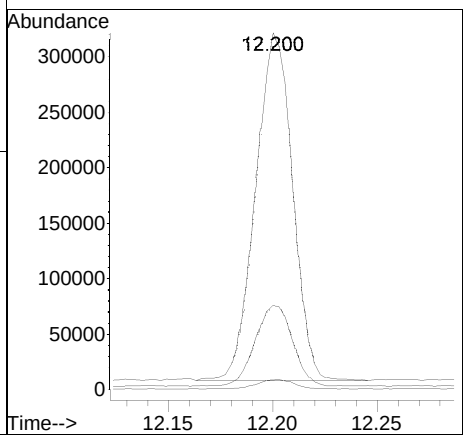


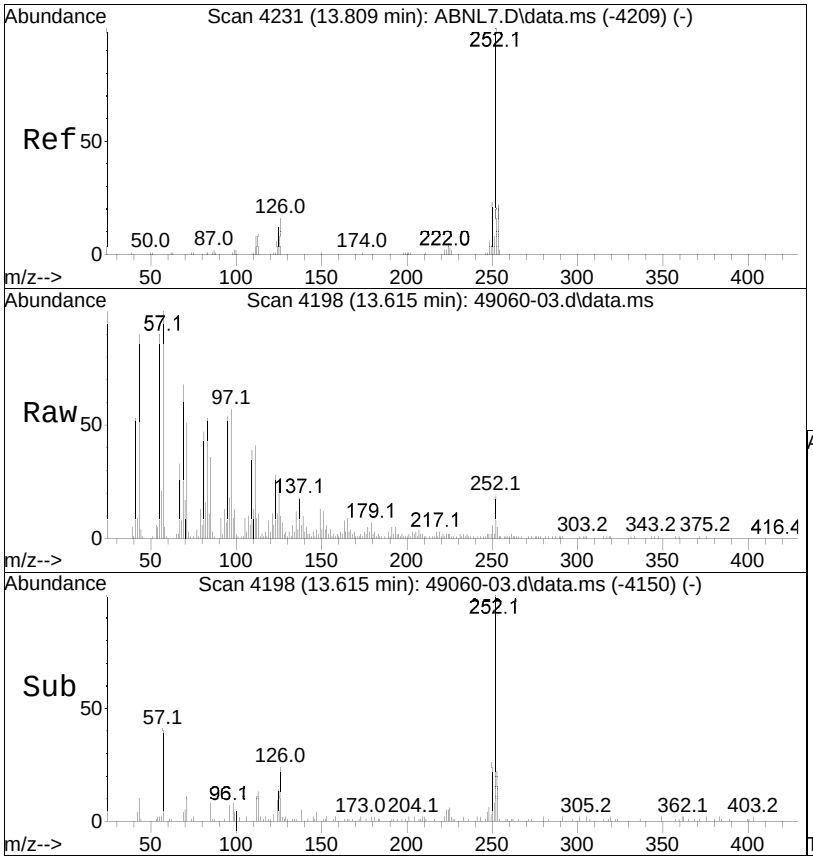


#107
Bis(2-ethylhexyl)phthalate
Concen: 100.05 ug/ml
RT: 12.200 min Scan# 3700
Delta R.T. 0.006 min
Lab File: 49060-03.d
Acq: 9 Dec 2018 11:02 pm

Tgt Ion:149 Resp: 384219

Ion	Ratio	Lower	Upper
149	100		
167	23.8	19.4	29.0
279	2.7	2.3	3.5

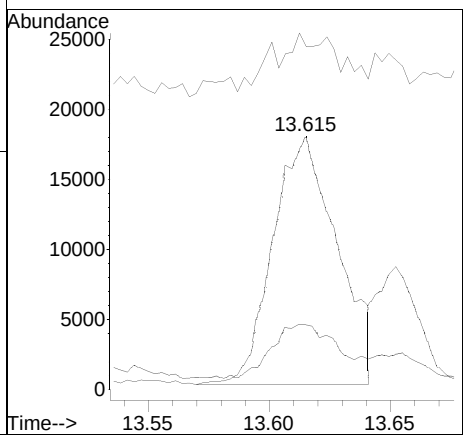


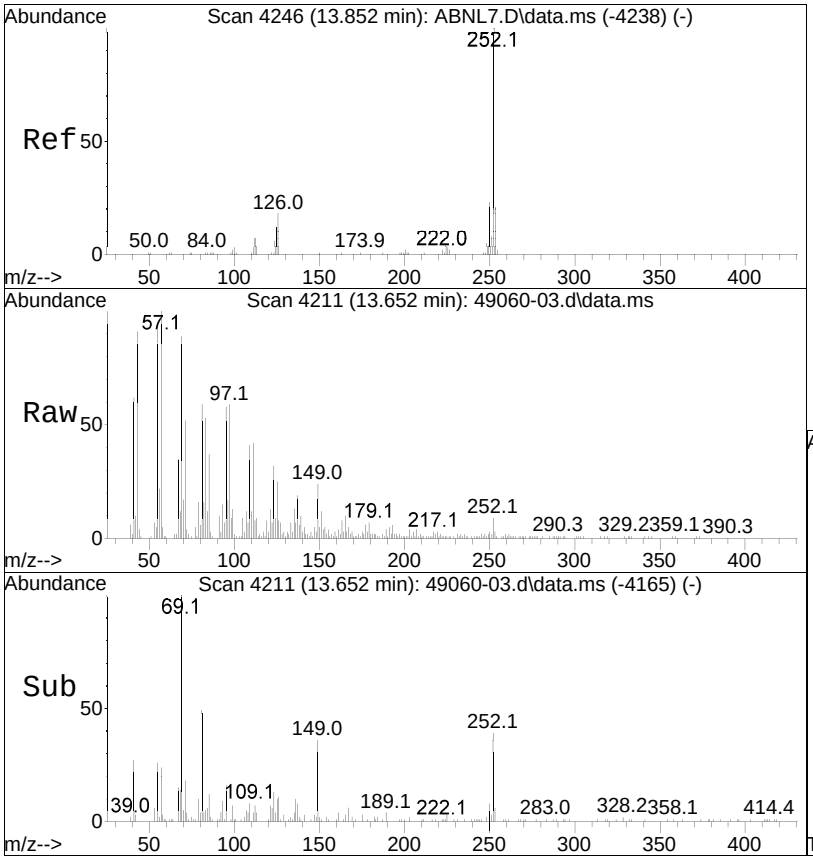


#109
Benzo(b)fluoranthene
Concen: 7.36 ug/ml
RT: 13.615 min Scan# 4198
Delta R.T. 0.011 min
Lab File: 49060-03.d
Acq: 9 Dec 2018 11:02 pm

Tgt Ion:252 Resp: 32774

Ion	Ratio	Lower	Upper
252	100		
125	4.0	11.6	17.4#
253	21.7	17.4	26.0

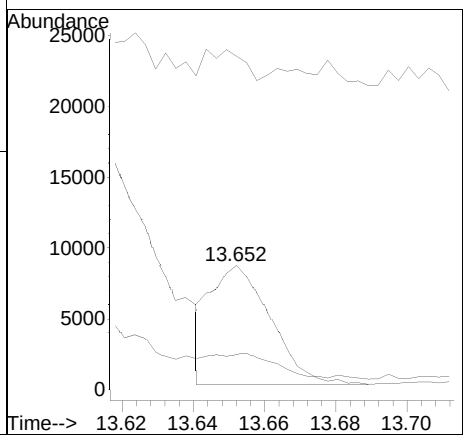


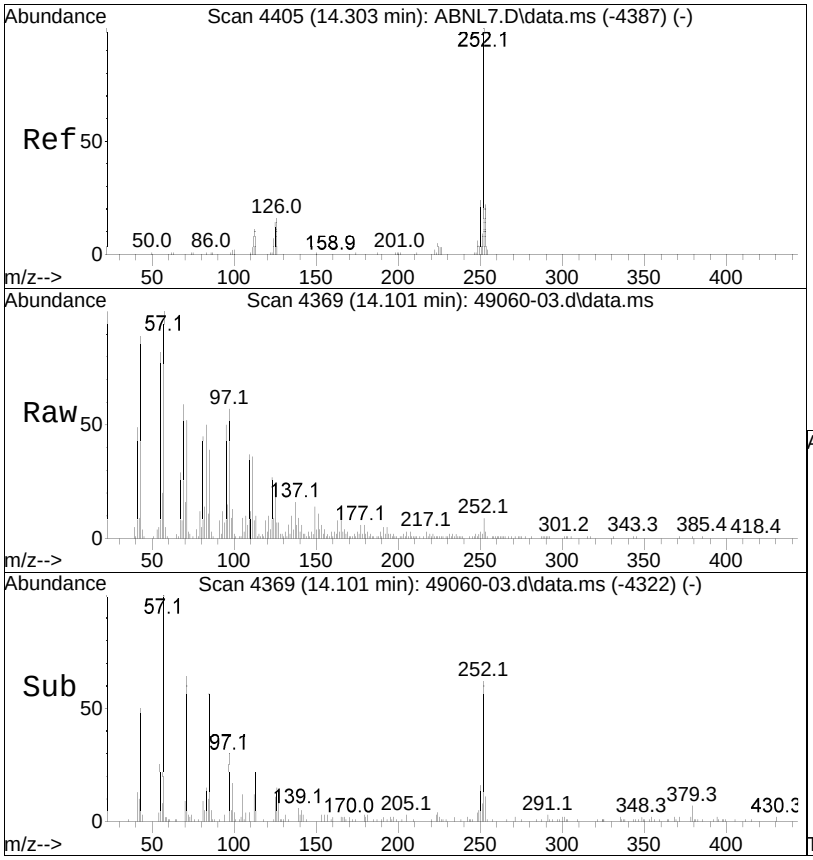


#110
Benzo(k)fluoranthene
Concen: 2.23 ug/ml M1
RT: 13.652 min Scan# 4211
Delta R.T. 0.006 min
Lab File: 49060-03.d
Acq: 9 Dec 2018 11:02 pm

Tgt Ion:252 Resp: 9992

Ion	Ratio	Lower	Upper
252	100		
125	15.2	11.4	17.0
253	0.0	17.2	25.8#

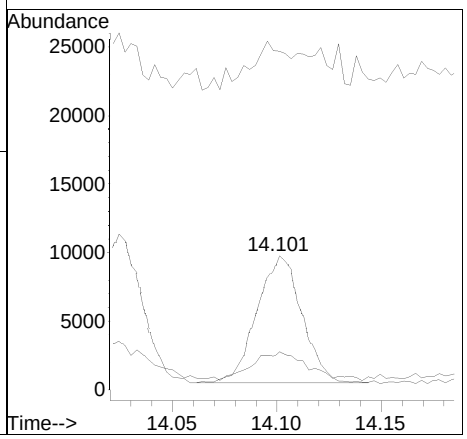


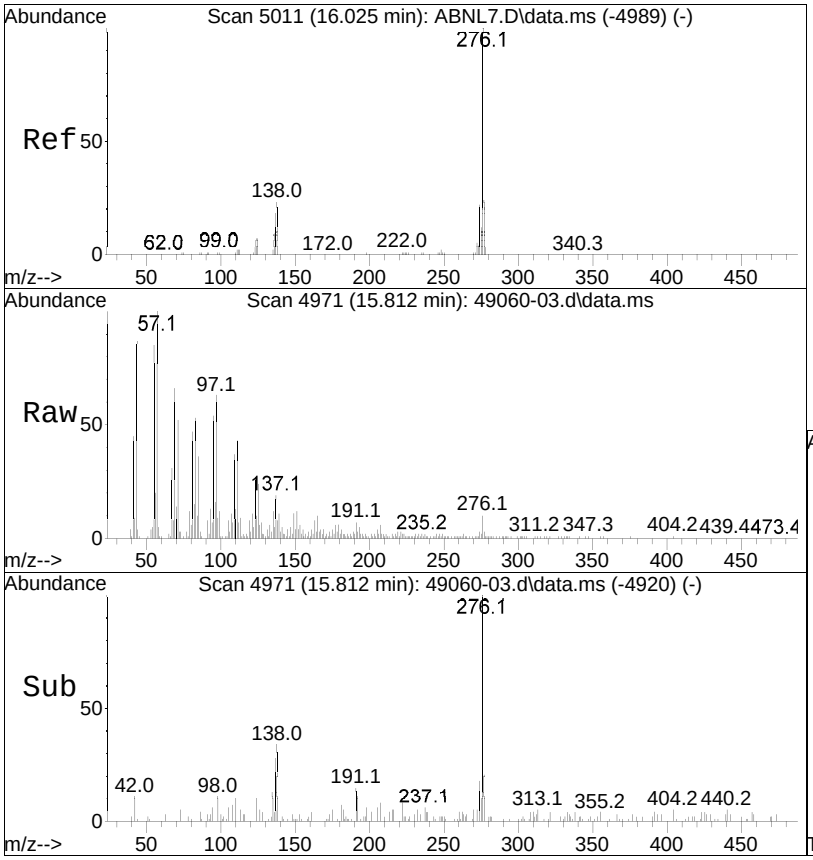


#111
Benzo(a)pyrene
Concen: 3.21 ug/ml
RT: 14.101 min Scan# 4369
Delta R.T. 0.008 min
Lab File: 49060-03.d
Acq: 9 Dec 2018 11:02 pm

Tgt Ion:252 Resp: 13847

Ion	Ratio	Lower	Upper
252	100		
125	28.7	12.6	18.8#
253	27.3	16.9	25.3#

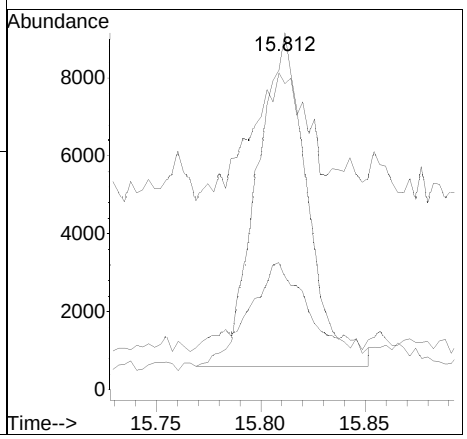


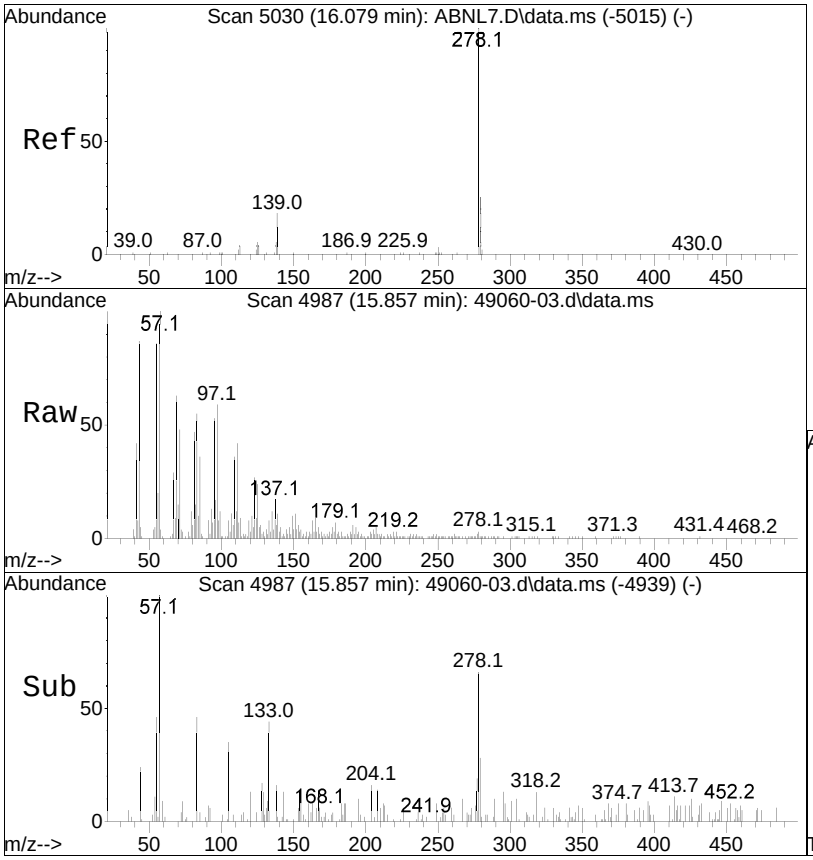


#113
Indeno(1,2,3-cd)pyrene
Concen: 3.31 ug/mL
RT: 15.812 min Scan# 4971
Delta R.T. 0.020 min
Lab File: 49060-03.d
Acq: 9 Dec 2018 11:02 pm

Tgt Ion:276 Resp: 14271

Ion	Ratio	Lower	Upper
276	100		
138	42.9	21.4	32.0#
277	29.8	19.2	28.8#

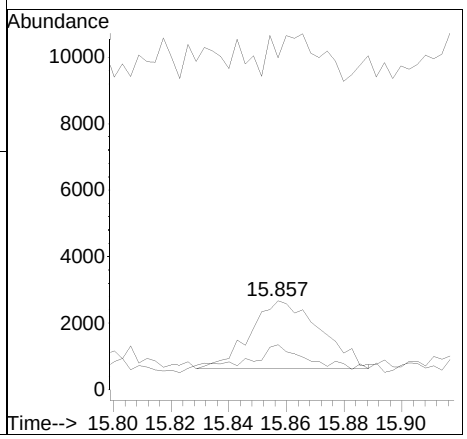


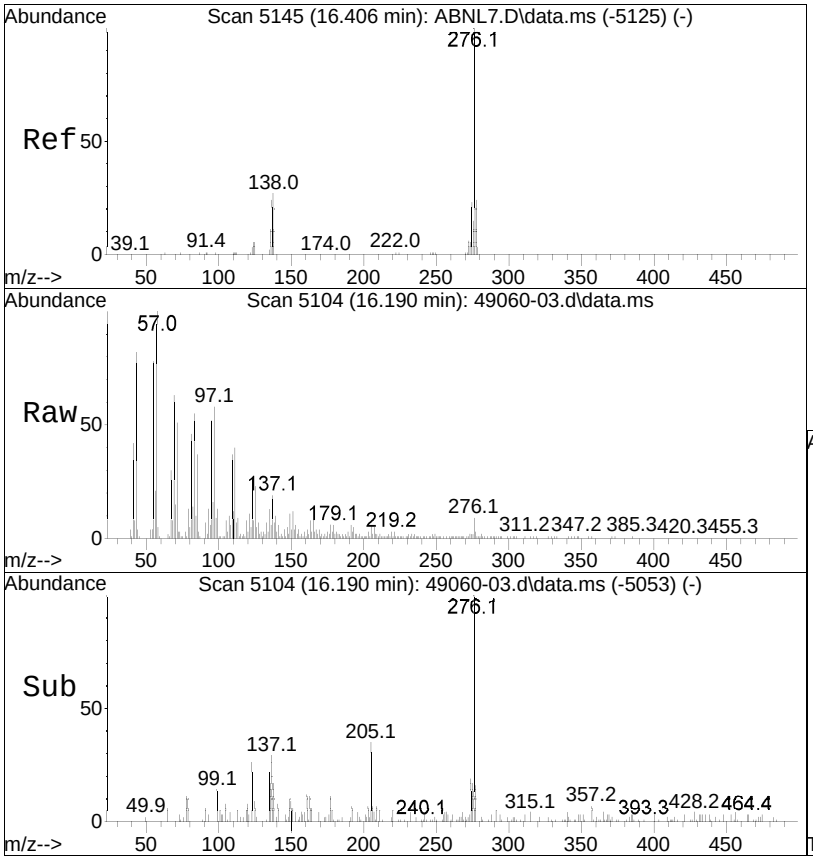


#114
Dibenzo(a,h)anthracene
Concen: 0.79 ug/ml M4
RT: 15.857 min Scan# 4987
Delta R.T. 0.011 min
Lab File: 49060-03.d
Acq: 9 Dec 2018 11:02 pm

Tgt Ion:278 Resp: 3456

Ion	Ratio	Lower	Upper
278	100		
139	45.5	17.1	25.7#
279	0.0	19.3	28.9#

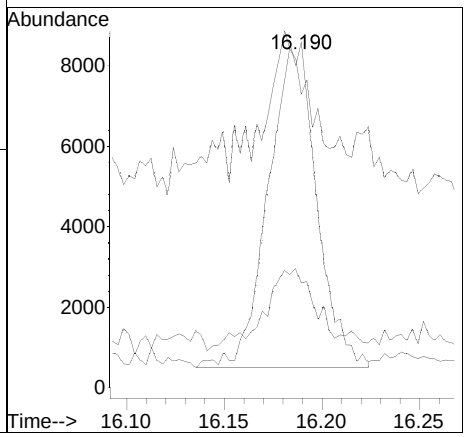




#115
Benzo(ghi)perylene
Concen: 3.05 ug/ml
RT: 16.190 min Scan# 5104
Delta R.T. 0.020 min
Lab File: 49060-03.d
Acq: 9 Dec 2018 11:02 pm

Tgt Ion:276 Resp: 13916

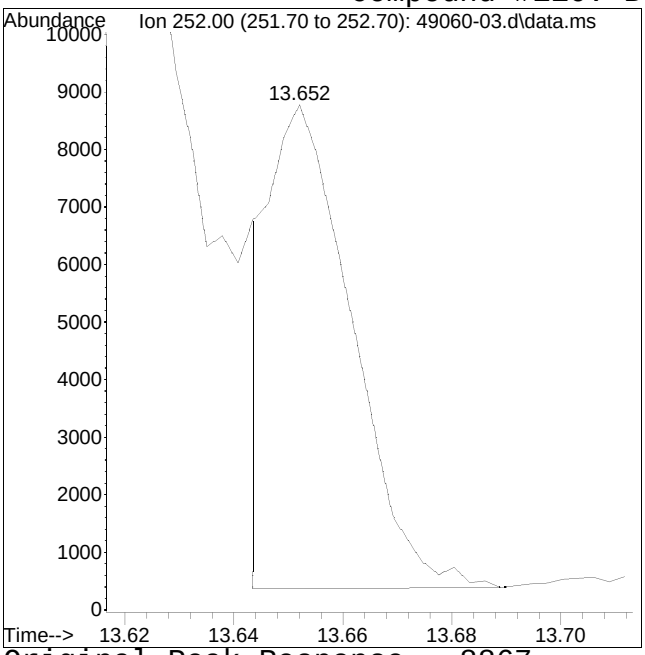
Ion	Ratio	Lower	Upper
276	100		
138	29.9	23.0	34.4
277	23.0	18.6	28.0



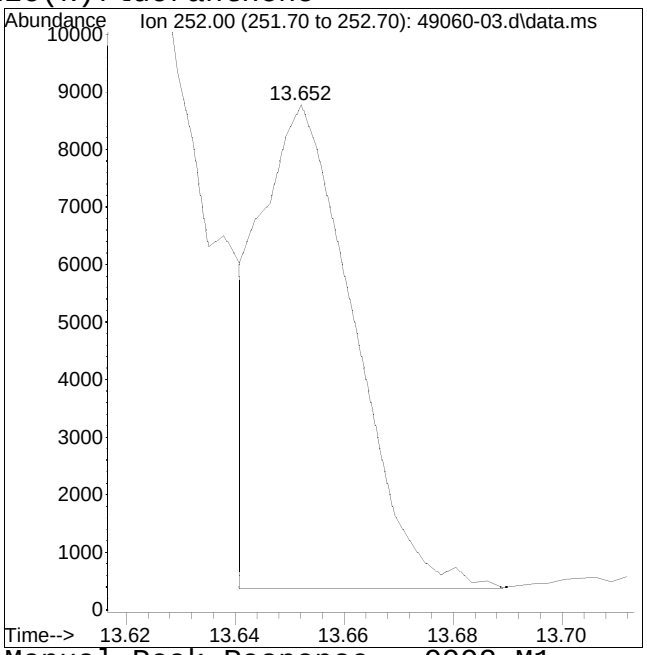
Manual Integration Report

Data Path : I:\8270\SV103\181209\ QMethod : FS181204nSV103.m
Data File : 49060-03.d Operator : SV103:rc
Date Inj'd : 12/9/2018 11:02 pm Instrument : SV103
Sample : l1849060-03d,32,5,ny,rv,kr Quant Date : 12/10/2018 8:34 am

Compound #110: Benzo(k)fluoranthene



Original Peak Response = 8867



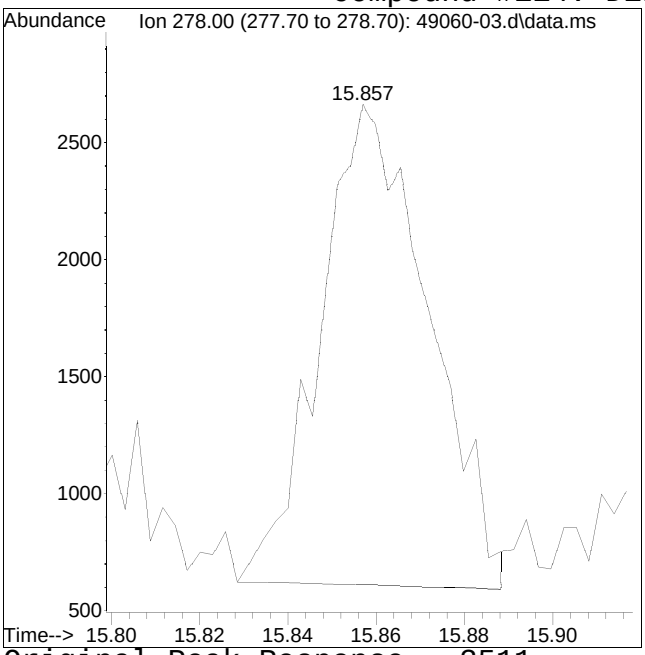
Manual Peak Response = 9992 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

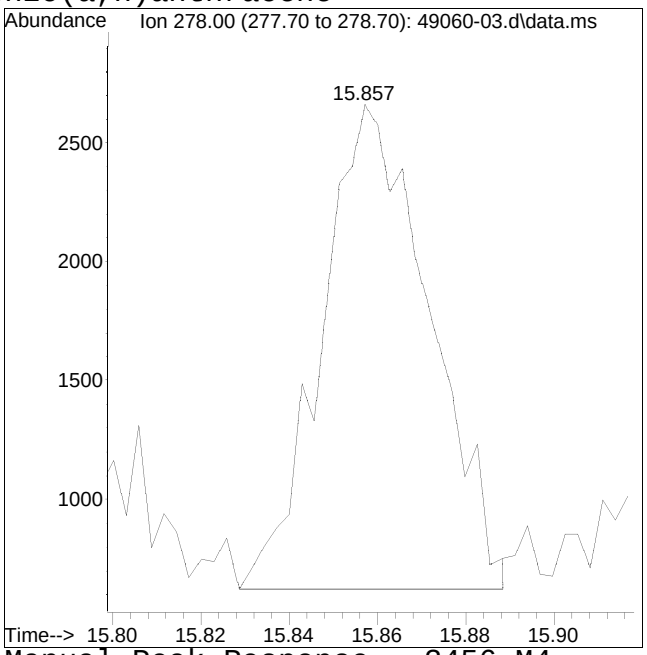
Manual Integration Report

Data Path : I:\8270\SV103\181209\ QMethod : FS181204nSV103.m
Data File : 49060-03.d Operator : SV103:rc
Date Inj'd : 12/9/2018 11:02 pm Instrument : SV103
Sample : l1849060-03d,32,5,ny,rv,kr Quant Date : 12/10/2018 8:34 am

Compound #114: Dibenzo(a,h)anthracene



Original Peak Response = 3511



Manual Peak Response = 3456 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181209\
Data File : 49060-06.d
Acq On : 9 Dec 2018 11:28 pm
Operator : SV103:rc
Sample : l1849060-06d,32,5,ny,rv,kr
Misc : wg1187317,wg1184852,ical15305
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 10 08:49:52 2018
Quant Method : I:\8270\SV103\181209\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 10 08:06:53 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\181209\ABN1209.d
: 2 - I:\8270\SV103\181209\ADP1209.d
: 3 - I:\8270\SV103\181209\AP91209.d
Sub List : 8270TCL_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.775	152	70290	40.000	ug/ml	0.00
Standard Area 1 = 67385			Recovery = 104.31%			
27) IS2_1,4-Dichlorobenzen...	4.775	152	70290	40.000	ug/ml	0.00
Standard Area 3 = 68471			Recovery = 102.66%			
34) IS1_Naphthalene-d8	6.020	136	303250	40.000	ug/ml	0.00
Standard Area 1 = 288220			Recovery = 105.21%			
54) IS2_Naphthalene-d8	6.020	136	303250	40.000	ug/ml	0.00
Standard Area 3 = 296762			Recovery = 102.19%			
62) IS1_Acenaphthene-d10	7.730	164	129698	40.000	ug/ml	0.00
Standard Area 1 = 144644			Recovery = 89.67%			
82) IS2_Acenaphthene-d10	7.730	164	129698	40.000	ug/ml	0.00
Standard Area 3 = 152009			Recovery = 85.32%			
85) IS3_Acenaphthene-d10	7.730	164	129698	40.000	ug/ml	0.00
Standard Area 2 = 132109			Recovery = 98.17%			
87) IS1_Phenanthrene-d10	9.168	188	224140	40.000	ug/ml	0.00
Standard Area 1 = 243640			Recovery = 92.00%			
99) IS3_Phenanthrene-d10	9.168	188	224140	40.000	ug/ml	0.00
Standard Area 2 = 225714			Recovery = 99.30%			
103) IS1_Chrysene-d12	12.044	240	173295	40.000	ug/ml	# 0.00
Standard Area 1 = 211435			Recovery = 81.96%			
112) IS1_Perylene-d12	14.209	264	180363	40.000	ug/ml	0.03
Standard Area 1 = 215613			Recovery = 83.65%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.508	112	11515	4.934	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 9.87%#			
7) Phenol-d6	4.471	99	14454	4.929	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 9.86%#			
19) Nitrobenzene-d5	5.324	82	2745	1.012	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 4.05%#			
45) 2-Fluorobiphenyl	7.091	172	13291	2.812	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 11.25%#			
78) 2,4,6-Tribromophenol	8.498	330	2804	5.213	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 10.43%#			
95) 4-Terphenyl-d14	10.776	244	10105	2.315	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 9.26%#			

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181209\
Data File : 49060-06.d
Acq On : 9 Dec 2018 11:28 pm
Operator : SV103:rc
Sample : l1849060-06d,32,5,ny,rv,kr
Misc : wg1187317,wg1184852,ical15305
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 10 08:49:52 2018
Quant Method : I:\8270\SV103\181209\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 10 08:06:53 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\181209\ABN1209.d
: 2 - I:\8270\SV103\181209\ADP1209.d
: 3 - I:\8270\SV103\181209\AP91209.d
Sub List : 8270TCL_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	4.483	94	7120	2.064	ug/ml#	88
9) Bis(2-chloroethyl)ether	0.000		0	N.D.		
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
16) Hexachloroethane	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.	d	
18) 3-Methylphenol/4-Methy...	5.224	108	49158	20.479	ug/ml	90
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	4.343	105	3904M6	1.905	ug/ml	
29) Acetophenone	0.000		0	N.D.	d	
35) Naphthalene	6.040	128	23410	3.142	ug/ml	99
37) 4-Chloroaniline	0.000		0	N.D.		
38) Hexachlorobutadiene	0.000		0	N.D.		
39) p-Chloro-m-cresol	0.000		0	N.D.		
40) 2-Methylnaphthalene	6.722	142	4392	0.892	ug/ml	99
42) Hexachlorocyclopentadiene	0.000		0	N.D.		
43) 2,4,6-Trichlorophenol	0.000		0	N.D.		
44) 2,4,5-Trichlorophenol	0.000		0	N.D.		
46) 2-Chloronaphthalene	0.000		0	N.D.		
47) 2-Nitroaniline	0.000		0	N.D.		
50) Dimethyl phthalate	0.000		0	N.D.	d	
51) Acenaphthylene	0.000		0	N.D.	d	
52) 2,6-Dinitrotoluene	0.000		0	N.D.		
59) Caprolactam	0.000		0	N.D.	d	
60) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
61) Biphenyl	0.000		0	N.D.		
63) 3-Nitroaniline	0.000		0	N.D.		
64) Acenaphthene	0.000		0	N.D.		
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	7.932	168	1804	0.317	ug/ml#	34

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181209\
Data File : 49060-06.d
Acq On : 9 Dec 2018 11:28 pm
Operator : SV103:rc
Sample : l1849060-06d,32,5,ny,rv,kr
Misc : wg1187317,wg1184852,ical15305
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 10 08:49:52 2018
Quant Method : I:\8270\SV103\181209\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 10 08:06:53 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\181209\ABN1209.d
: 2 - I:\8270\SV103\181209\ADP1209.d
: 3 - I:\8270\SV103\181209\AP91209.d
Sub List : 8270TCL_REV1 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
67)	2,4-Dinitrotoluene	0.000		0	N.D.		
68)	4-Nitrophenol	0.000		0	N.D.		
70)	2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
71)	Diethyl phthalate	0.000		0	N.D.		
72)	Fluorene	8.265	166	2039	0.445	ug/ml#	92
73)	4-Chlorophenyl phenyl ...	0.000		0	N.D.		
74)	4-Nitroaniline	0.000		0	N.D.		
75)	4,6-Dinitro-o-cresol	0.000		0	N.D.		
76)	NDPA/DPA	0.000		0	N.D.		
79)	4-Bromophenyl phenyl e...	0.000		0	N.D.		
80)	Hexachlorobenzene	0.000		0	N.D.		
81)	Pentachlorophenol	0.000		0	N.D.		
86)	Atrazine	0.000		0	N.D.		
88)	Phenanthrene	9.191	178	20067	3.247	ug/ml	95
89)	Anthracene	9.239	178	4403	0.716	ug/ml#	73
90)	Carbazole	9.410	167	3444	0.604	ug/ml#	59
91)	Di-n-butylphthalate	9.793	149	50778	6.960	ug/ml	99
92)	Fluoranthene	10.350	202	38235	6.318	ug/ml	96
94)	Pyrene	10.575	202	32301	5.148	ug/ml#	95
96)	Butyl benzyl phthalate	11.376	149	12569	3.888	ug/ml#	82
104)	Benzo(a)anthracene	12.032	228	10269	2.014	ug/ml#	67
105)	3,3'-Dichlorobenzidine	0.000		0	N.D.		
106)	Chrysene	12.081	228	19129	3.972	ug/ml	96
107)	Bis(2-ethylhexyl)phtha...	12.206	149	336882	83.657	ug/ml	100
108)	Di-n-octylphthalate	0.000		0	N.D.	d	
109)	Benzo(b)fluoranthene	13.624	252	22811	4.886	ug/ml#	96
110)	Benzo(k)fluoranthene	13.661	252	8372M3	1.786	ug/ml	
111)	Benzo(a)pyrene	14.118	252	8955	1.978	ug/ml#	73
113)	Indeno(1,2,3-cd)pyrene	15.826	276	9775	2.162	ug/mL#	83
114)	Dibenzo(a,h)anthracene	15.877	278	2291	0.496	ug/ml#	50
115)	Benzo(ghi)perylene	16.201	276	9667	2.016	ug/ml#	83

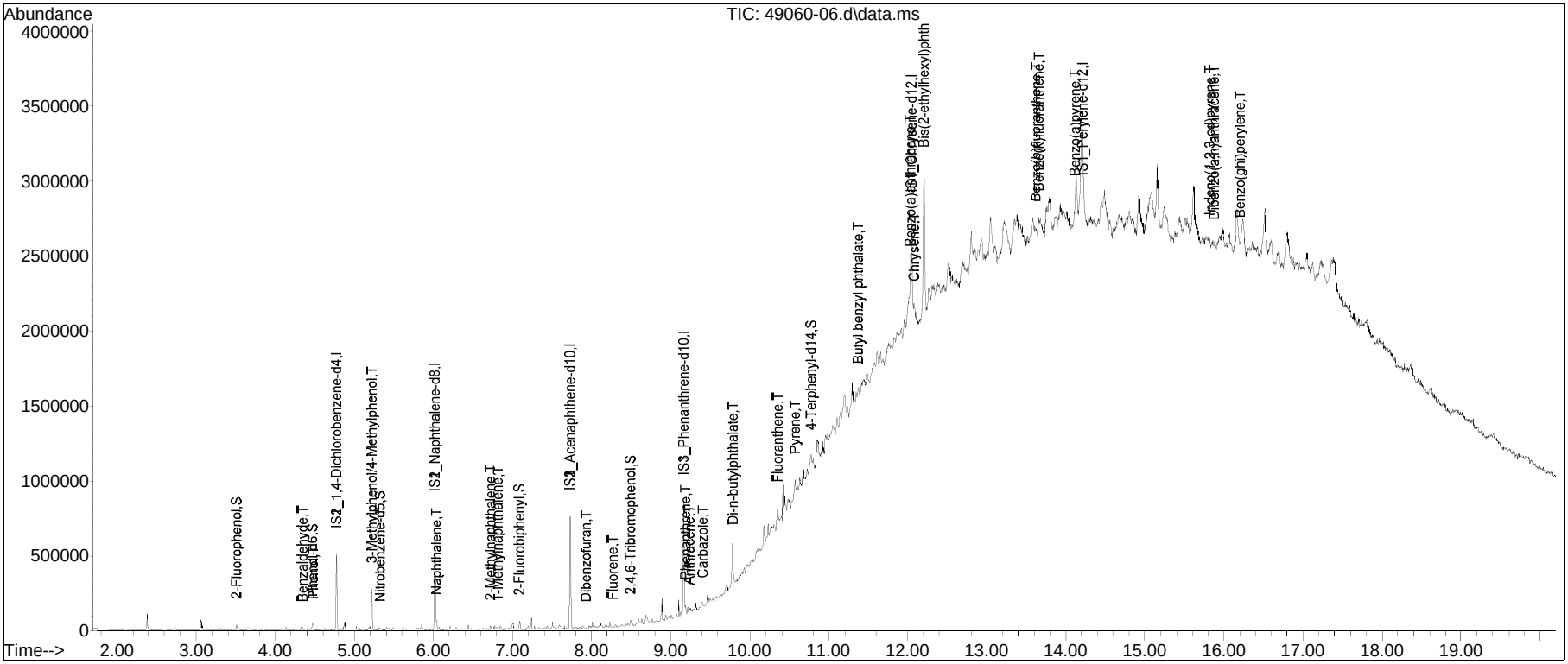
(#) = qualifier out of range (m) = manual integration (+) = signals summed

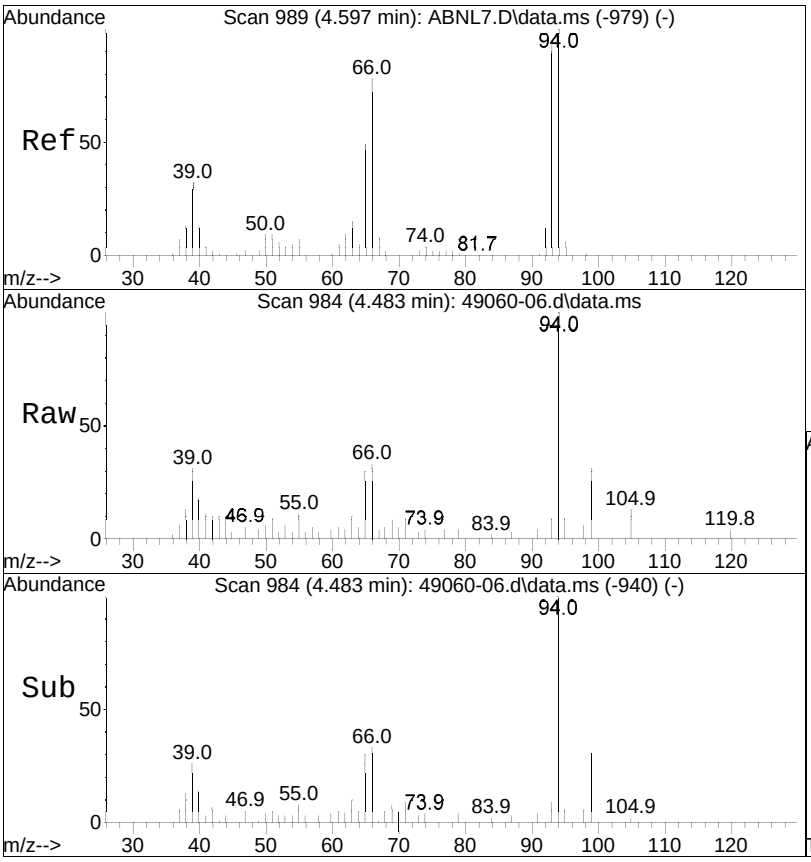
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181209\
Data File : 49060-06.d
Acq On : 9 Dec 2018 11:28 pm
Operator : SV103:rc
Sample : l1849060-06d,32,5,ny,rv,kr
Misc : wg1187317,wg1184852,ical15305
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 10 08:49:52 2018
Quant Method : I:\8270\SV103\181209\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 10 08:06:53 2018
Response via : Initial Calibration

Sub List : 8270TCL_REV1 - TCL/CT/MA\AP91209.d•

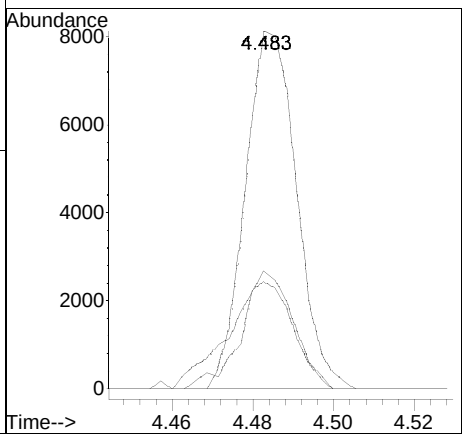


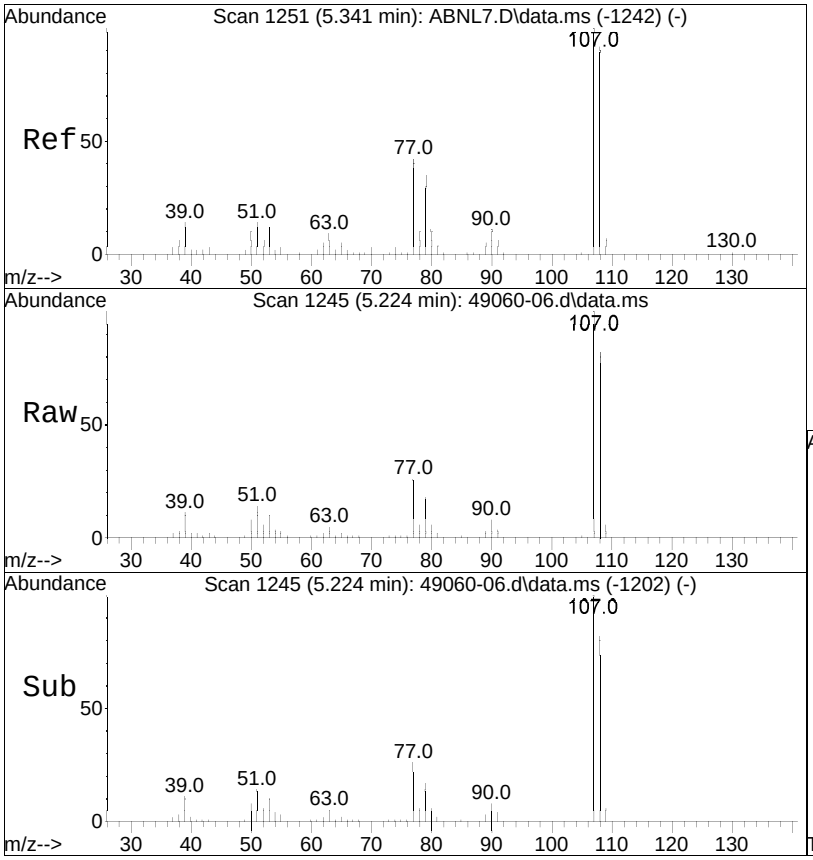


#8
Phenol
Concen: 2.06 ug/ml
RT: 4.483 min Scan# 984
Delta R.T. -0.000 min
Lab File: 49060-06.d
Acq: 9 Dec 2018 11:28 pm

Tgt Ion: 94 Resp: 7120

Ion	Ratio	Lower	Upper
94	100		
65	31.6	20.5	30.7#
66	40.7	0.0	0.0#

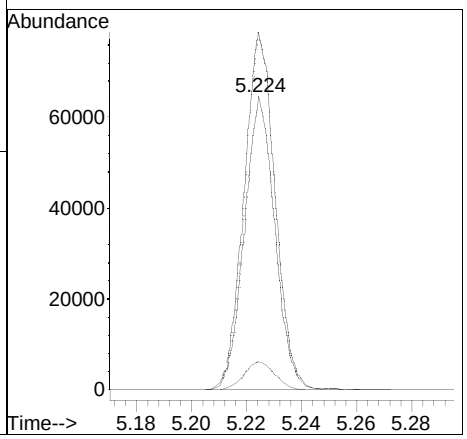


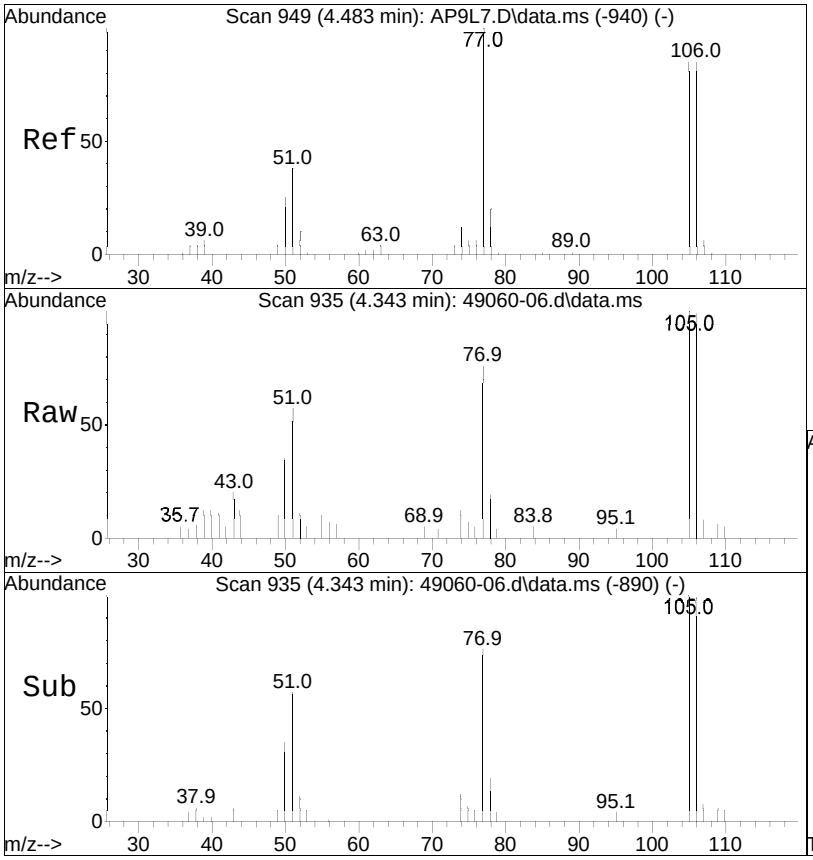


#18
3-Methylphenol/4-Methylphenol
Concen: 20.48 ug/ml
RT: 5.224 min Scan# 1245
Delta R.T. -0.003 min
Lab File: 49060-06.d
Acq: 9 Dec 2018 11:28 pm

Tgt Ion:108 Resp: 49158

Ion	Ratio	Lower	Upper
108	100		
107	124.2	90.4	135.6
90	9.7	9.2	13.8

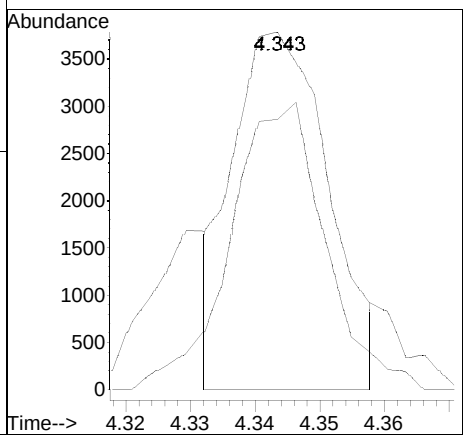


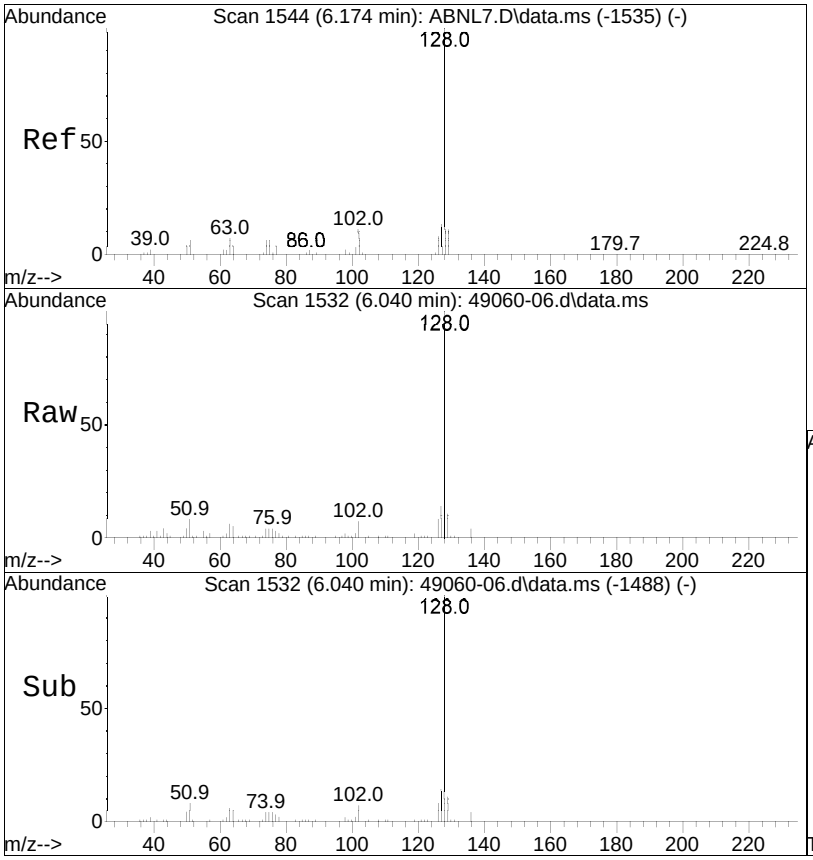


#28
Benzaldehyde
Concen: 1.91 ug/ml M6
RT: 4.343 min Scan# 935
Delta R.T. 0.003 min
Lab File: 49060-06.d
Acq: 9 Dec 2018 11:28 pm

Tgt Ion:105 Resp: 3904

Ion	Ratio	Lower	Upper
105	100		
77	79.3	82.9	124.3#

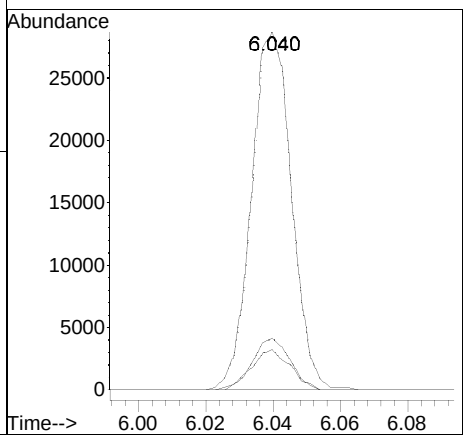


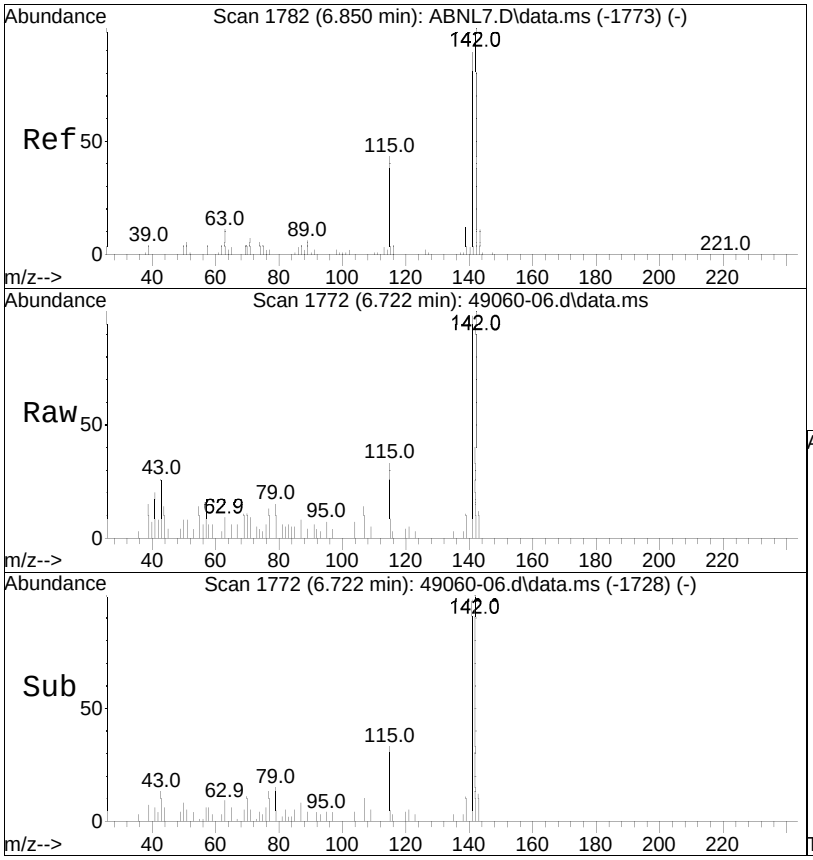


#35
Naphthalene
Concen: 3.14 ug/ml
RT: 6.040 min Scan# 1532
Delta R.T. -0.000 min
Lab File: 49060-06.d
Acq: 9 Dec 2018 11:28 pm

Tgt Ion:128 Resp: 23410

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.7	13.1
127	13.7	10.7	16.1

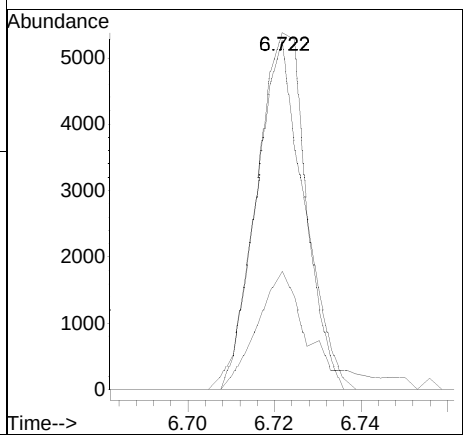


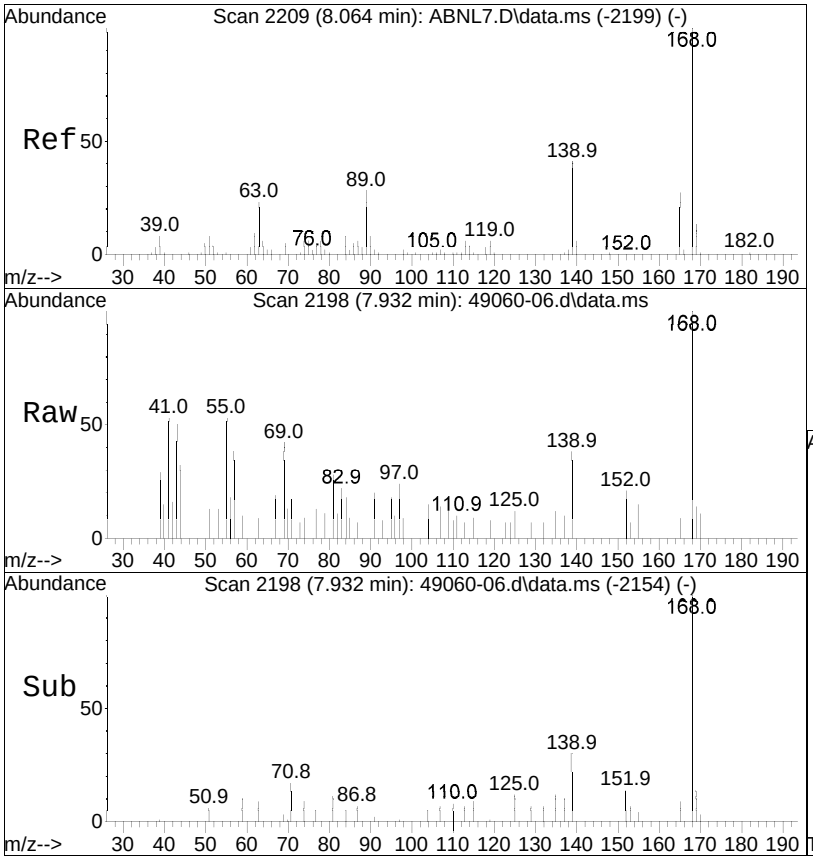


#40
2-Methylnaphthalene
Concen: 0.89 ug/ml
RT: 6.722 min Scan# 1772
Delta R.T. -0.000 min
Lab File: 49060-06.d
Acq: 9 Dec 2018 11:28 pm

Tgt Ion:142 Resp: 4392

Ion	Ratio	Lower	Upper
142	100		
141	89.2	71.8	107.8
115	36.9	29.1	43.7

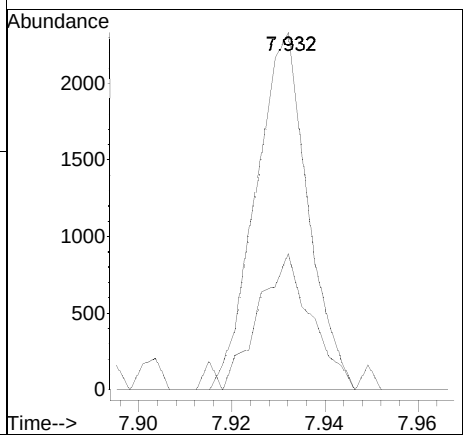


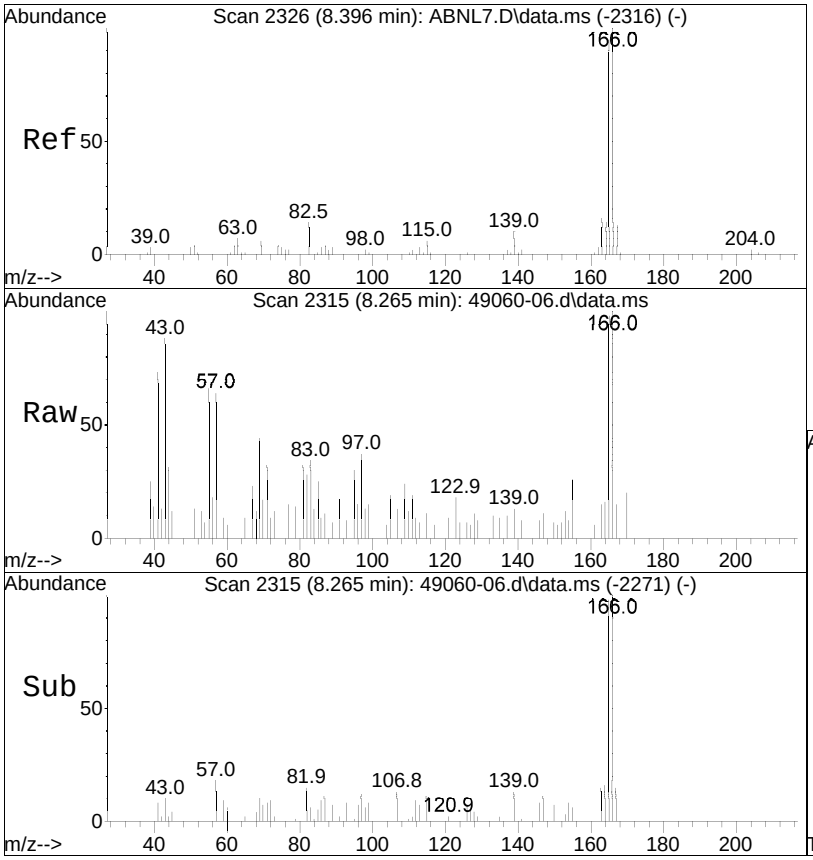


#66
Dibenzofuran
Concen: 0.32 ug/ml
RT: 7.932 min Scan# 2198
Delta R.T. -0.000 min
Lab File: 49060-06.d
Acq: 9 Dec 2018 11:28 pm

Tgt Ion:168 Resp: 1804

Ion	Ratio	Lower	Upper
168	100		
139	0.0	33.2	49.8#

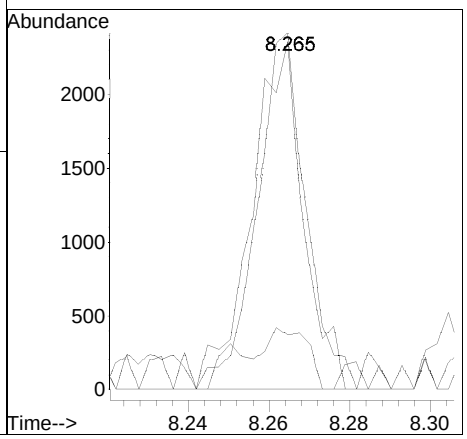


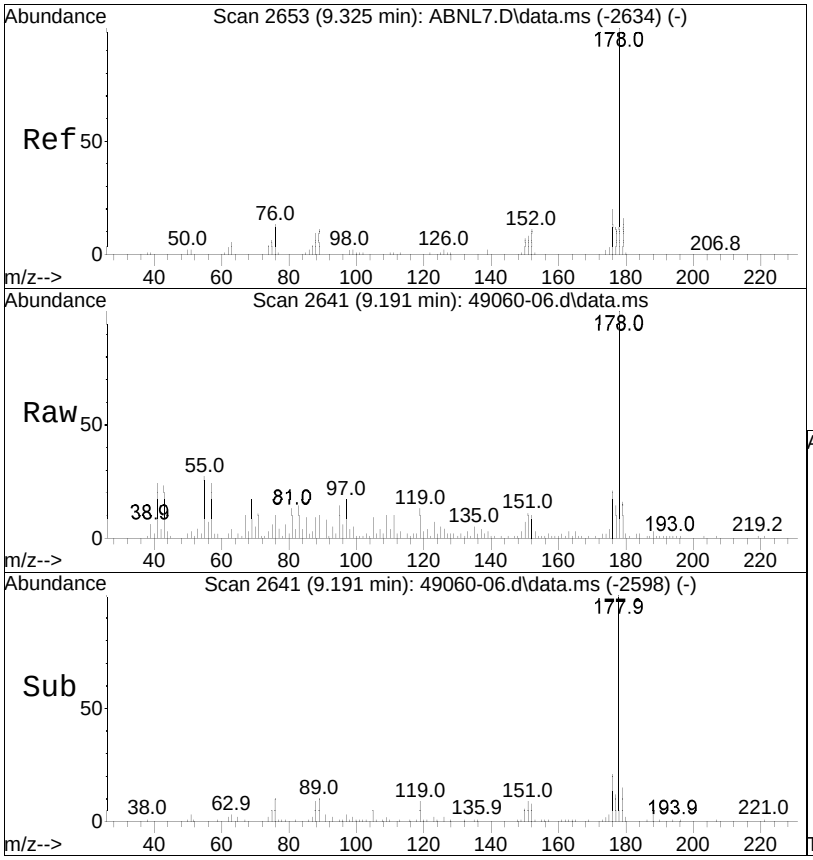


#72
Fluorene
Concen: 0.45 ug/ml
RT: 8.265 min Scan# 2315
Delta R.T. -0.000 min
Lab File: 49060-06.d
Acq: 9 Dec 2018 11:28 pm

Tgt Ion:166 Resp: 2039

Ion	Ratio	Lower	Upper
166	100		
165	103.1	79.3	118.9
167	0.0	10.6	16.0#

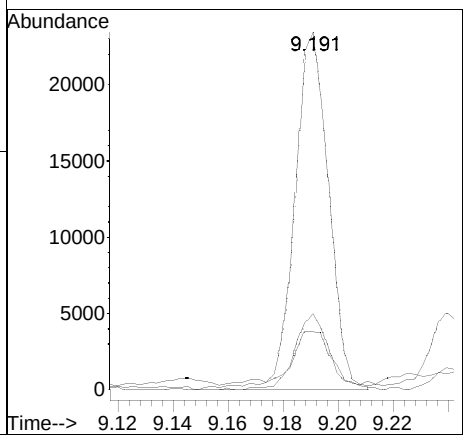


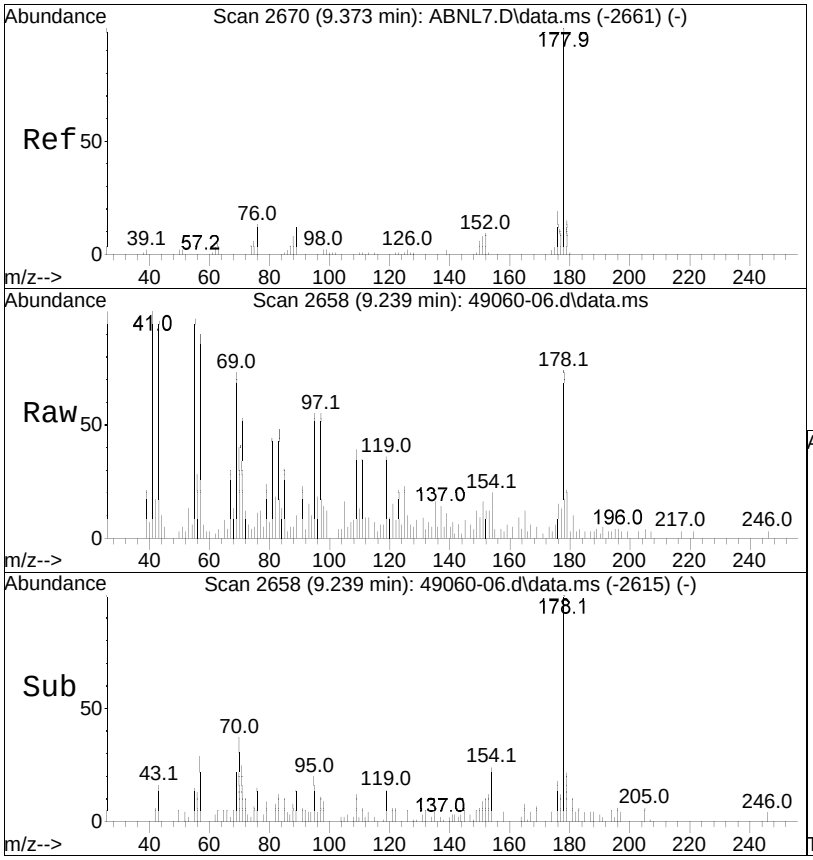


#88
Phenanthrene
Concen: 3.25 ug/ml
RT: 9.191 min Scan# 2641
Delta R.T. -0.003 min
Lab File: 49060-06.d
Acq: 9 Dec 2018 11:28 pm

Tgt Ion:178 Resp: 20067

Ion	Ratio	Lower	Upper
178	100		
179	17.0	12.2	18.2
176	21.8	15.4	23.2

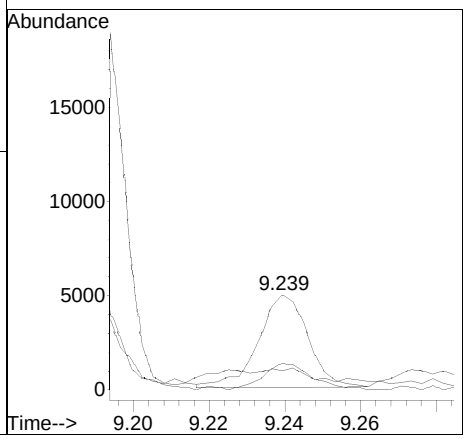


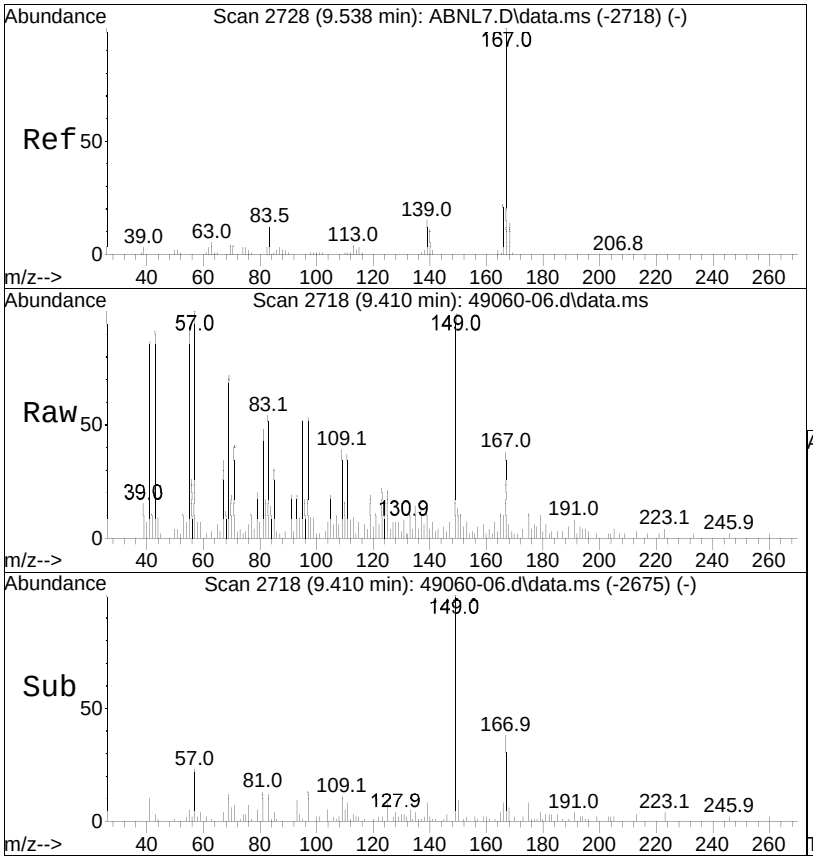


#89
Anthracene
Concen: 0.72 ug/ml
RT: 9.239 min Scan# 2658
Delta R.T. -0.003 min
Lab File: 49060-06.d
Acq: 9 Dec 2018 11:28 pm

Tgt Ion:178 Resp: 4403

Ion	Ratio	Lower	Upper
178	100		
179	0.0	12.1	18.1#
176	26.9	14.8	22.2#

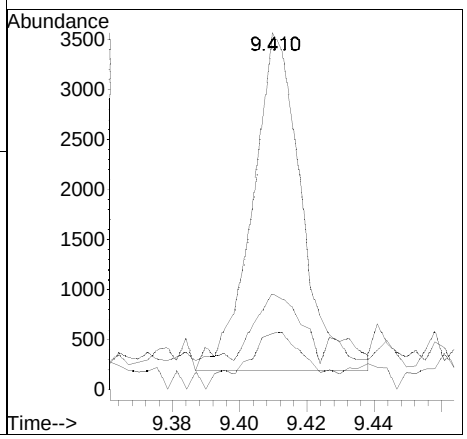


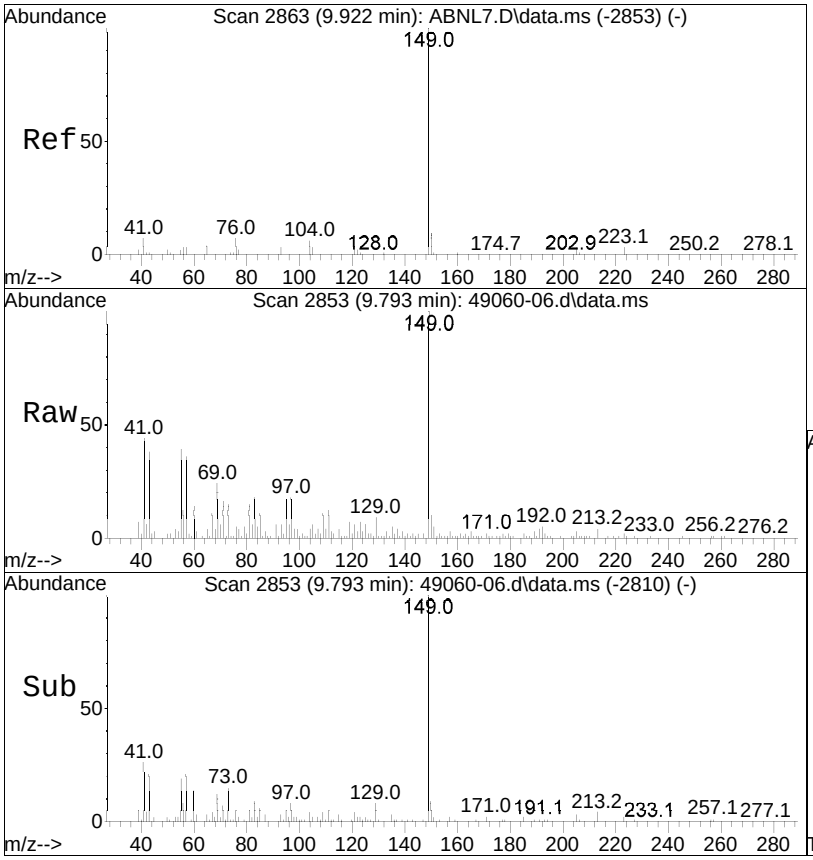


#90
Carbazole
Concen: 0.60 ug/ml
RT: 9.410 min Scan# 2718
Delta R.T. -0.003 min
Lab File: 49060-06.d
Acq: 9 Dec 2018 11:28 pm

Tgt Ion:167 Resp: 3444

Ion	Ratio	Lower	Upper
167	100		
168	0.0	10.6	15.8#
166	0.0	17.7	26.5#

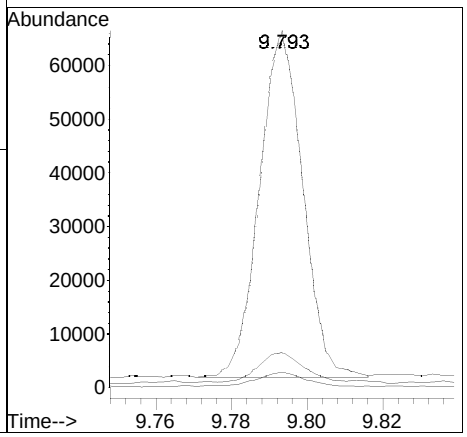


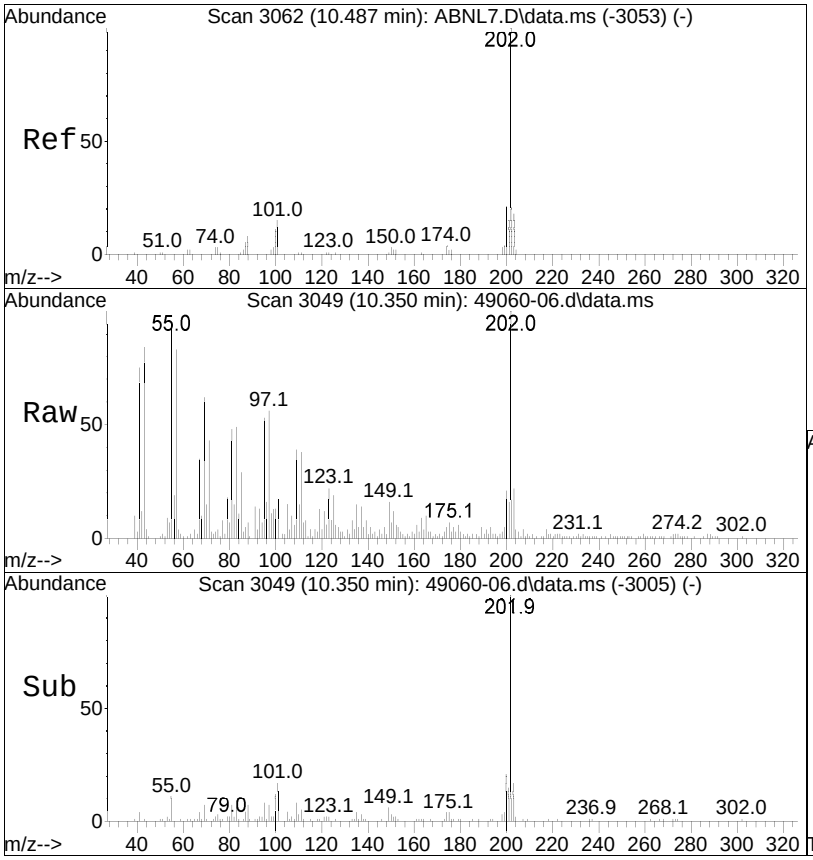


#91
Di-n-butylphthalate
Concen: 6.96 ug/ml
RT: 9.793 min Scan# 2853
Delta R.T. -0.003 min
Lab File: 49060-06.d
Acq: 9 Dec 2018 11:28 pm

Tgt Ion:149 Resp: 50778

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.4	11.0
104	4.4	4.2	6.2

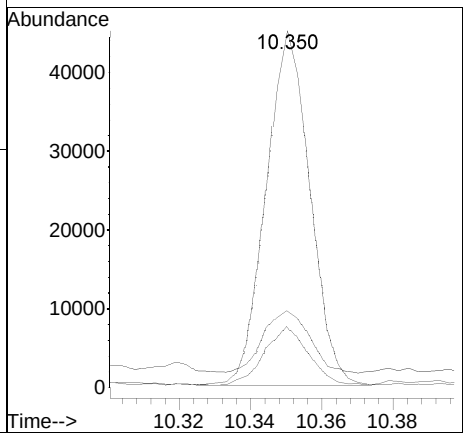


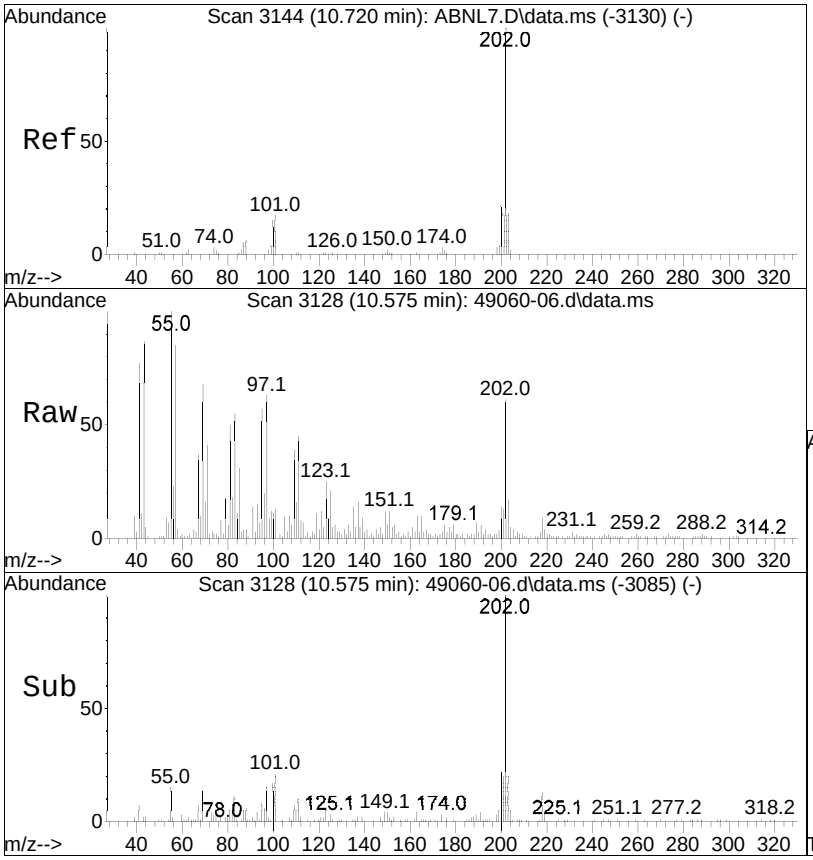


#92
Fluoranthene
Concen: 6.32 ug/ml
RT: 10.350 min Scan# 3049
Delta R.T. -0.000 min
Lab File: 49060-06.d
Acq: 9 Dec 2018 11:28 pm

Tgt Ion:202 Resp: 38235

Ion	Ratio	Lower	Upper
202	100		
101	16.8	11.4	17.0
203	18.6	13.9	20.9

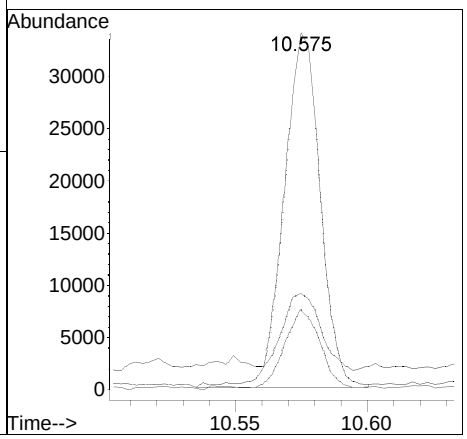


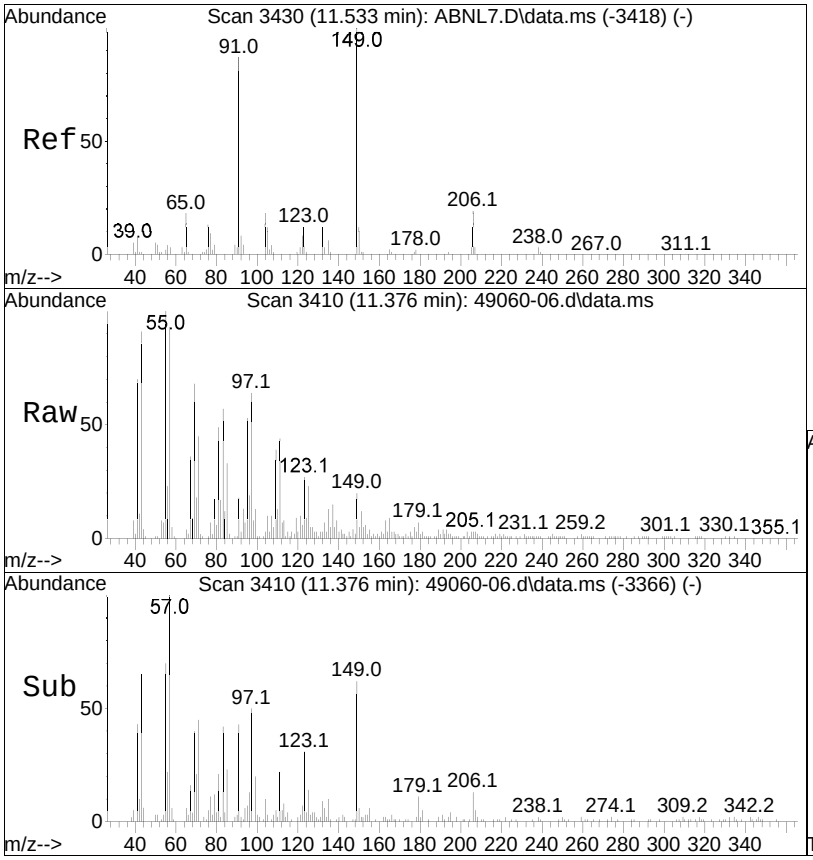


#94
Pyrene
Concen: 5.15 ug/ml
RT: 10.575 min Scan# 3128
Delta R.T. -0.003 min
Lab File: 49060-06.d
Acq: 9 Dec 2018 11:28 pm

Tgt Ion:202 Resp: 32301

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.0	25.4
203	22.0	14.2	21.2#

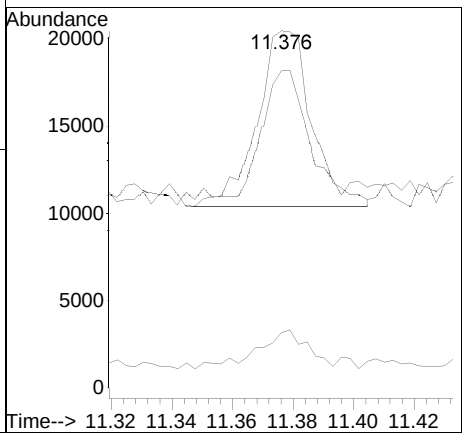


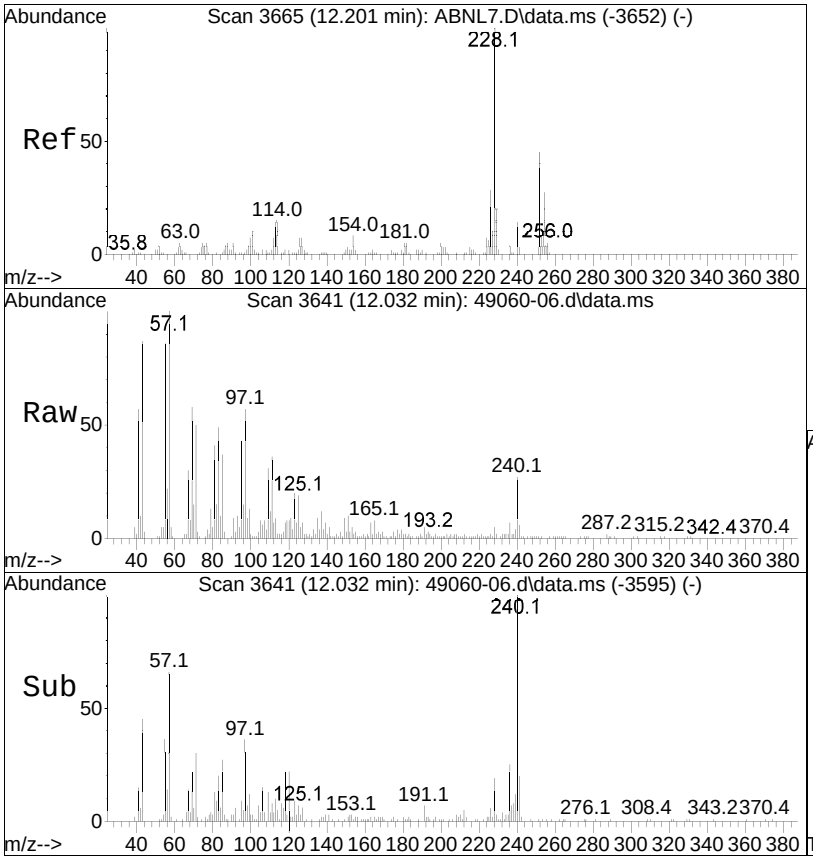


#96
Butyl benzyl phthalate
Concen: 3.89 ug/ml
RT: 11.376 min Scan# 3410
Delta R.T. -0.000 min
Lab File: 49060-06.d
Acq: 9 Dec 2018 11:28 pm

Tgt Ion:149 Resp: 12569

Ion	Ratio	Lower	Upper
149	100		
91	60.2	61.2	91.8#
206	20.8	12.5	18.7#

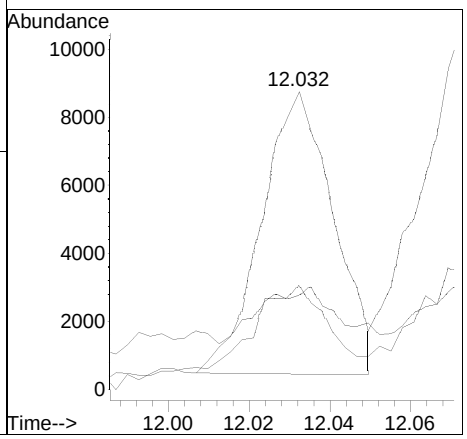


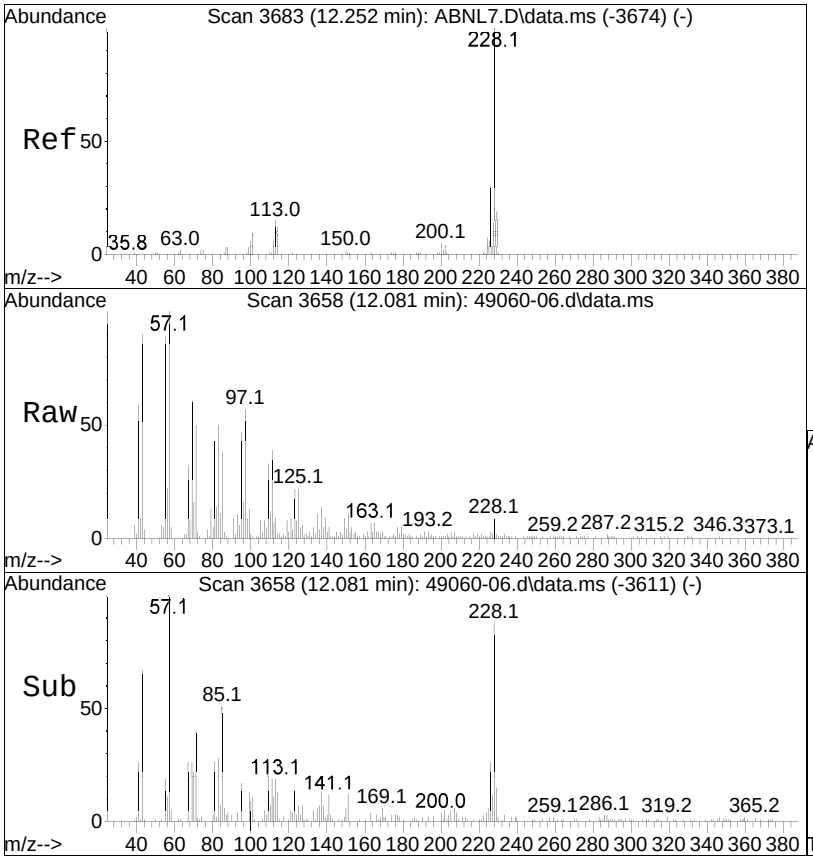


#104
Benzo(a)anthracene
Concen: 2.01 ug/ml
RT: 12.032 min Scan# 3641
Delta R.T. 0.006 min
Lab File: 49060-06.d
Acq: 9 Dec 2018 11:28 pm

Tgt Ion:228 Resp: 10269

Ion	Ratio	Lower	Upper
228	100		
226	0.0	22.2	33.2#
229	21.4	15.6	23.4

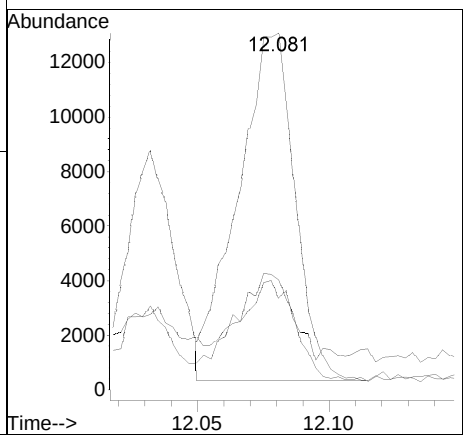


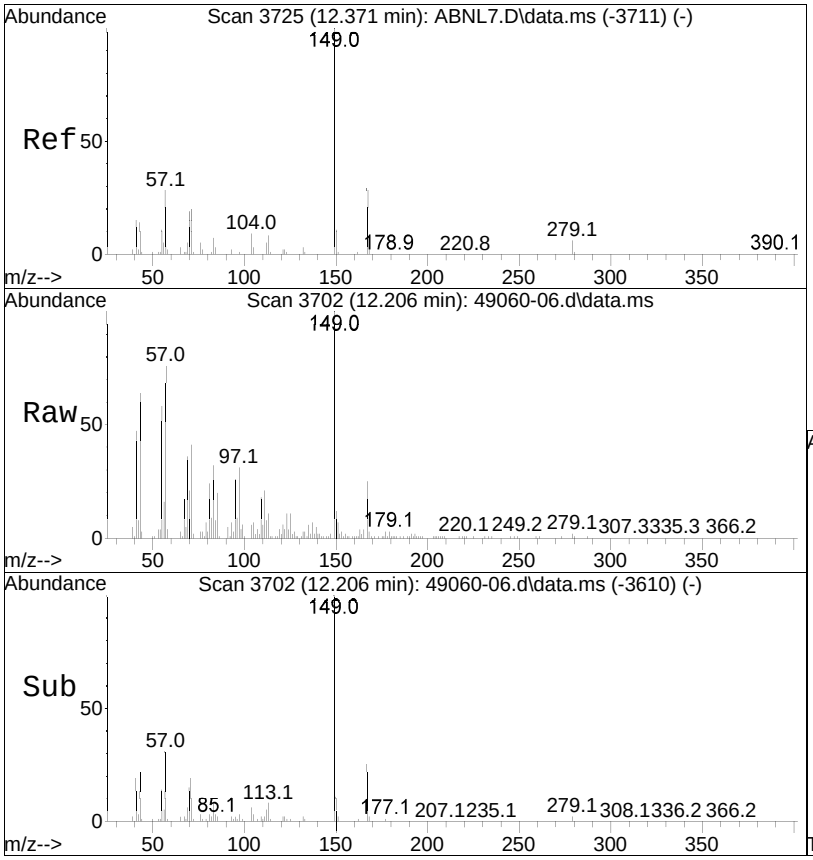


#106
Chrysene
Concen: 3.97 ug/ml
RT: 12.081 min Scan# 3658
Delta R.T. 0.008 min
Lab File: 49060-06.d
Acq: 9 Dec 2018 11:28 pm

Tgt Ion:228 Resp: 19129

Ion	Ratio	Lower	Upper
228	100		
226	31.6	24.6	37.0
229	15.9	15.8	23.6

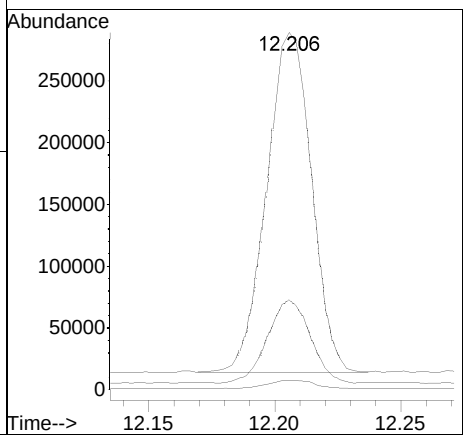


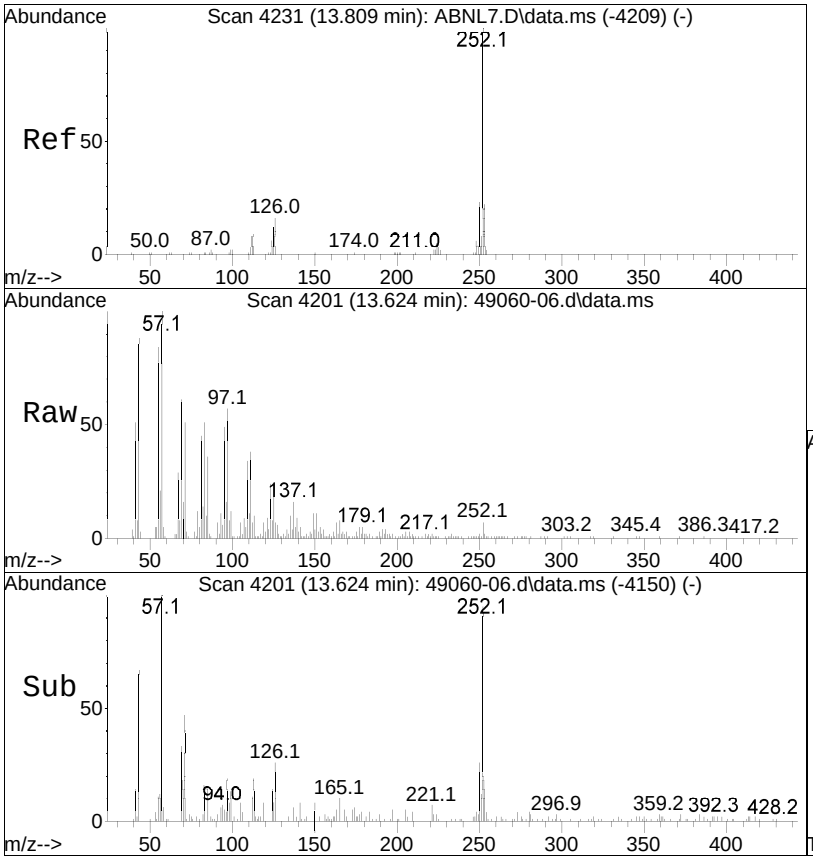


#107
Bis(2-ethylhexyl)phthalate
Concen: 83.66 ug/ml
RT: 12.206 min Scan# 3702
Delta R.T. 0.011 min
Lab File: 49060-06.d
Acq: 9 Dec 2018 11:28 pm

Tgt Ion:149 Resp: 336882

Ion	Ratio	Lower	Upper
149	100		
167	24.0	19.4	29.0
279	2.7	2.3	3.5

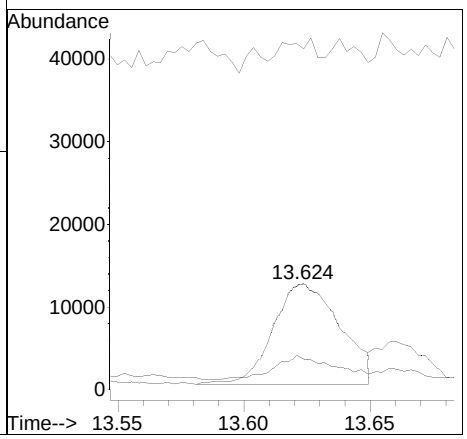


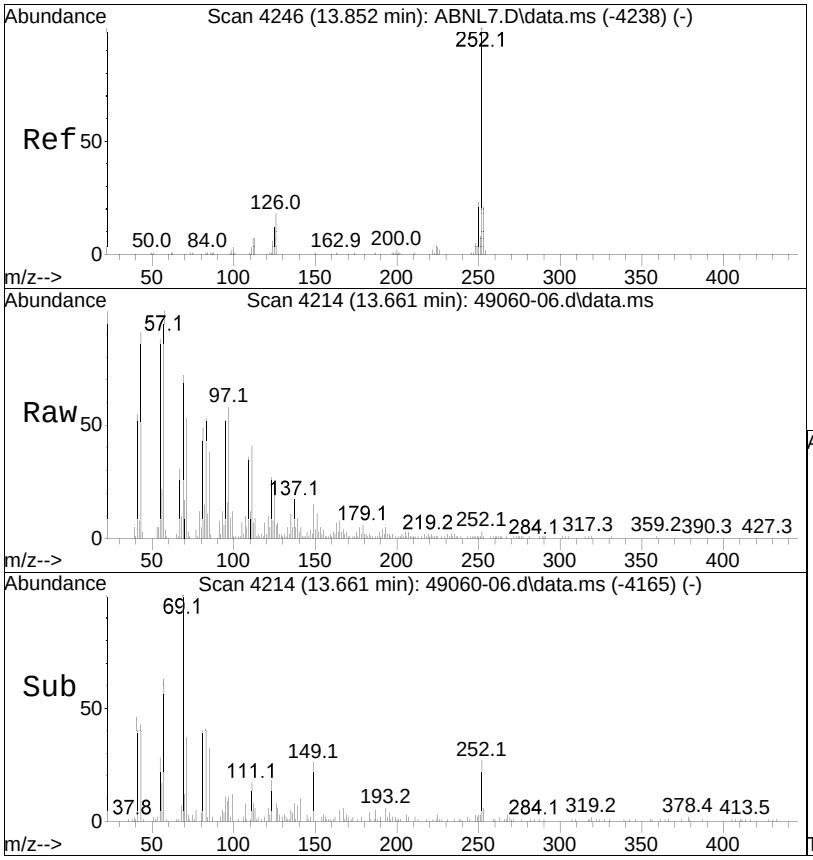


#109
Benzo(b)fluoranthene
Concen: 4.89 ug/ml
RT: 13.624 min Scan# 4201
Delta R.T. 0.020 min
Lab File: 49060-06.d
Acq: 9 Dec 2018 11:28 pm

Tgt Ion:252 Resp: 22811

Ion	Ratio	Lower	Upper
252	100		
125	10.5	11.6	17.4#
253	22.2	17.4	26.0

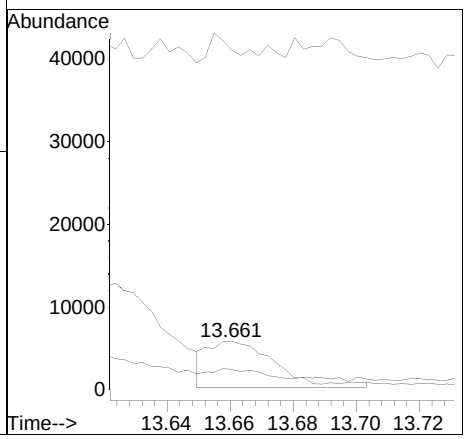


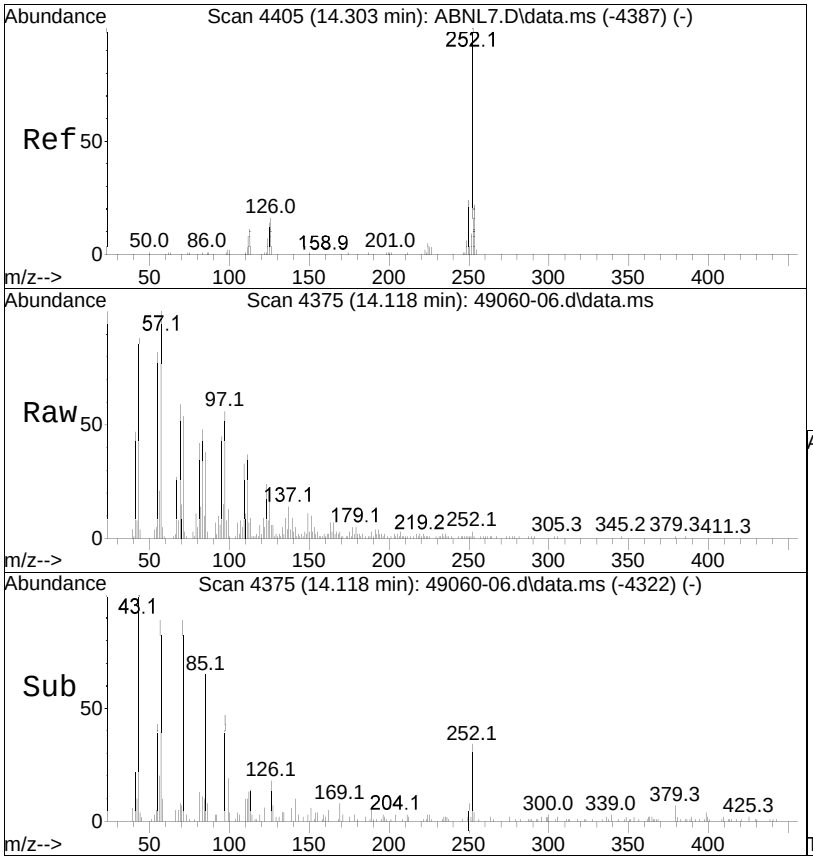


#110
Benzo(k)fluoranthene
Concen: 1.79 ug/ml M3
RT: 13.661 min Scan# 4214
Delta R.T. 0.014 min
Lab File: 49060-06.d
Acq: 9 Dec 2018 11:28 pm

Tgt Ion:252 Resp: 8372

Ion	Ratio	Lower	Upper
252	100		
125	28.7	11.4	17.0#
253	60.4	17.2	25.8#

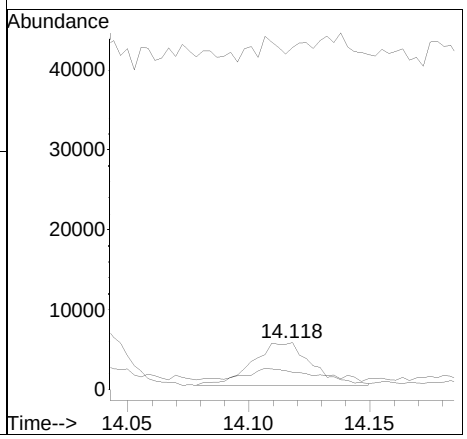


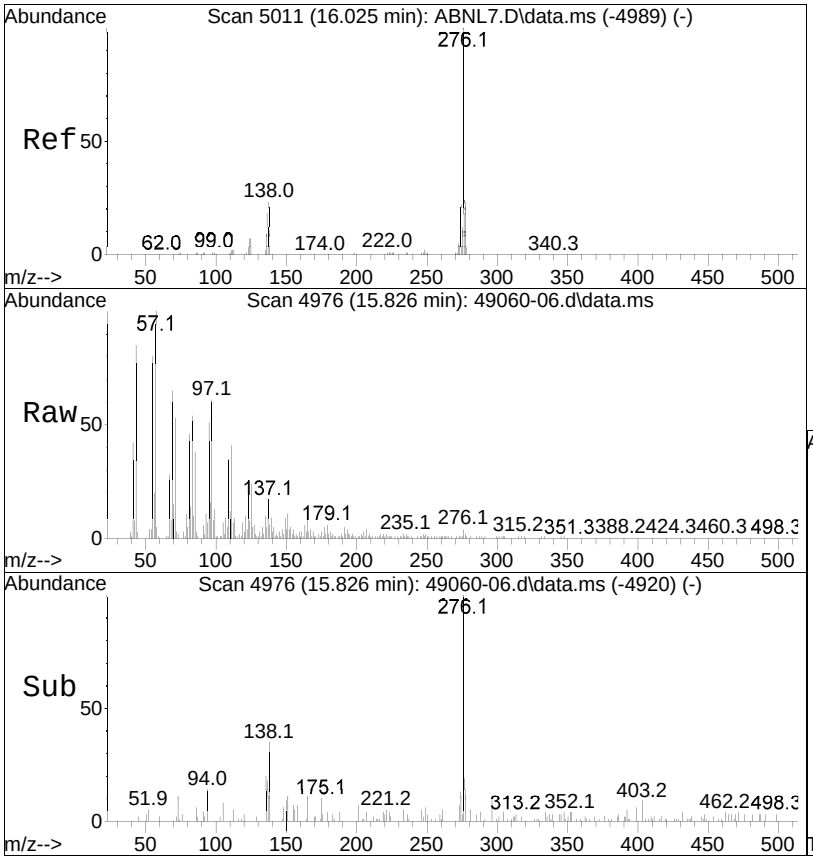


#111
Benzo(a)pyrene
Concen: 1.98 ug/ml
RT: 14.118 min Scan# 4375
Delta R.T. 0.025 min
Lab File: 49060-06.d
Acq: 9 Dec 2018 11:28 pm

Tgt Ion:252 Resp: 8955

Ion	Ratio	Lower	Upper
252	100		
125	23.9	12.6	18.8#
253	36.1	16.9	25.3#

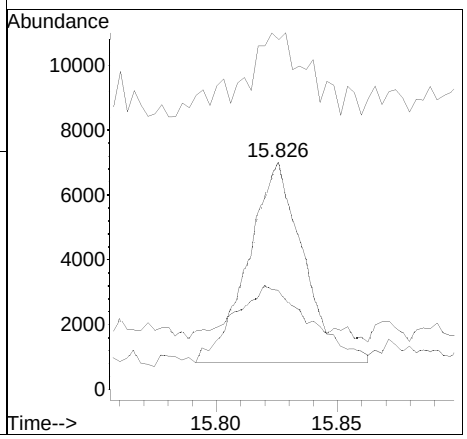


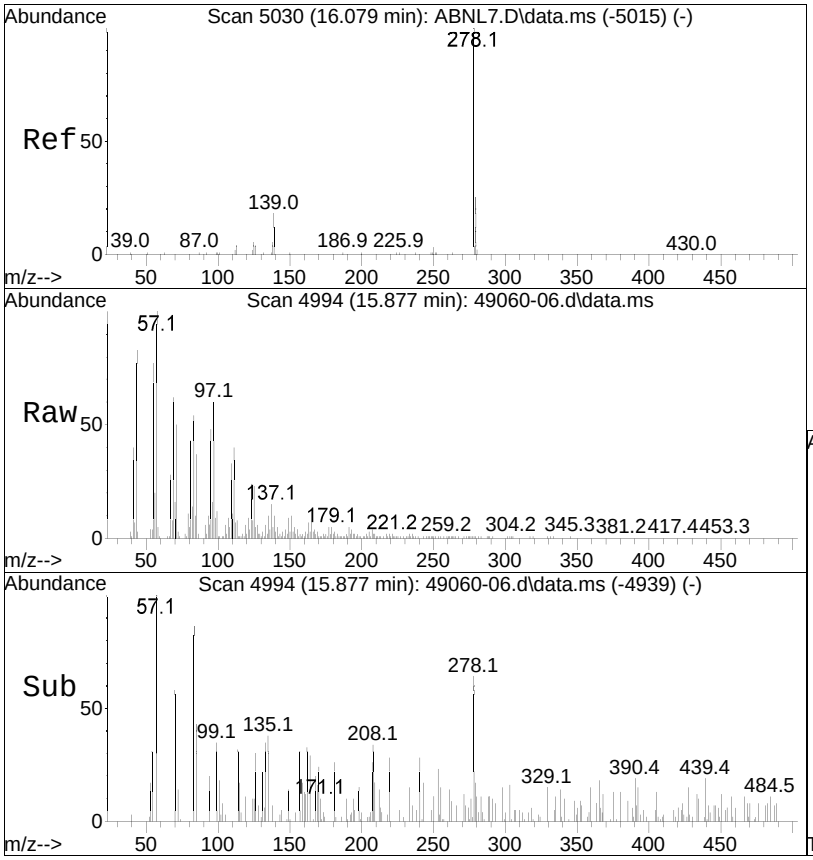


#113
Indeno(1,2,3-cd)pyrene
Concen: 2.16 ug/mL
RT: 15.826 min Scan# 4976
Delta R.T. 0.034 min
Lab File: 49060-06.d
Acq: 9 Dec 2018 11:28 pm

Tgt Ion:276 Resp: 9775

Ion	Ratio	Lower	Upper
276	100		
138	39.9	21.4	32.0#
277	27.5	19.2	28.8

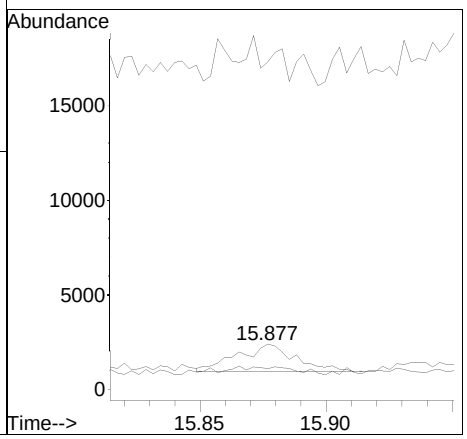


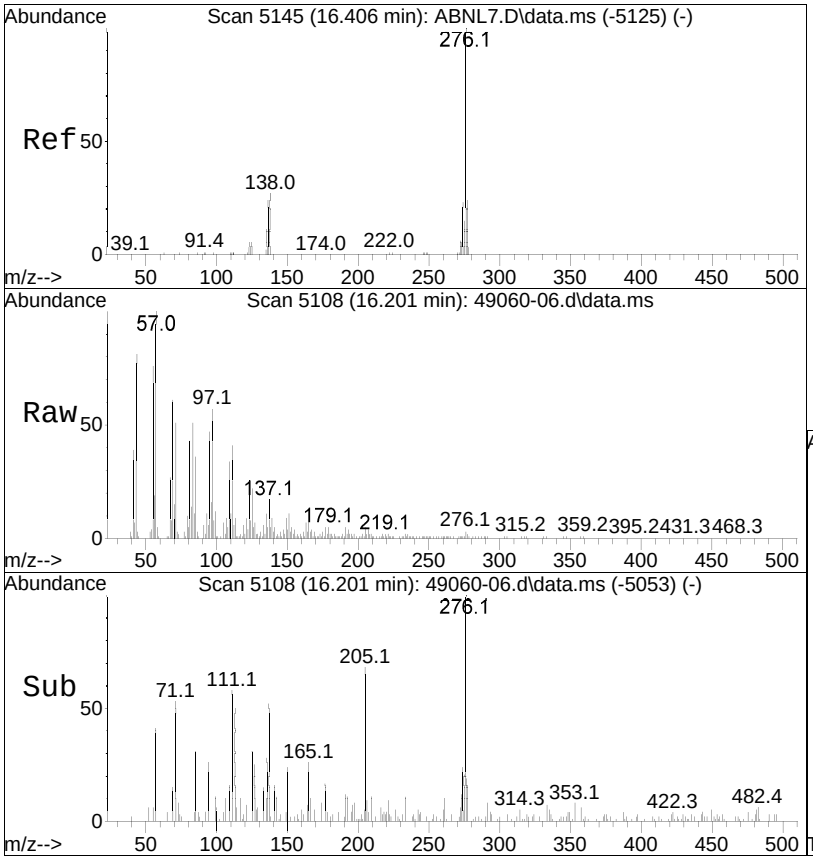


#114
Dibenzo(a,h)anthracene
Concen: 0.50 ug/ml
RT: 15.877 min Scan# 4994
Delta R.T. 0.031 min
Lab File: 49060-06.d
Acq: 9 Dec 2018 11:28 pm

Tgt Ion:278 Resp: 2291

Ion	Ratio	Lower	Upper
278	100		
139	45.3	17.1	25.7#
279	0.0	19.3	28.9#

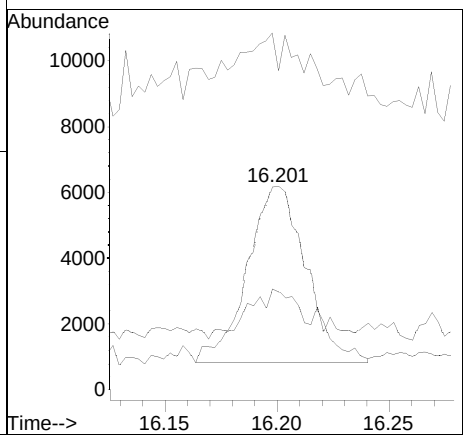




#115
Benzo(ghi)perylene
Concen: 2.02 ug/ml
RT: 16.201 min Scan# 5108
Delta R.T. 0.031 min
Lab File: 49060-06.d
Acq: 9 Dec 2018 11:28 pm

Tgt Ion:276 Resp: 9667

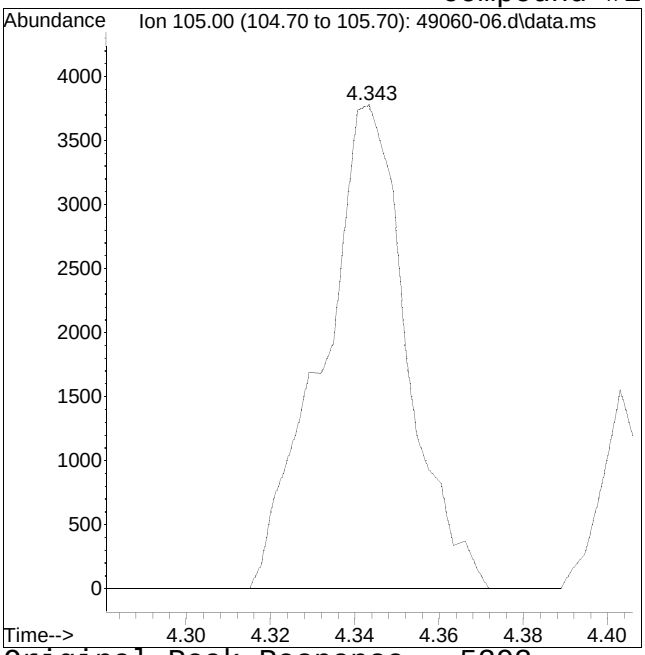
Ion	Ratio	Lower	Upper
276	100		
138	12.4	23.0	34.4#
277	23.8	18.6	28.0



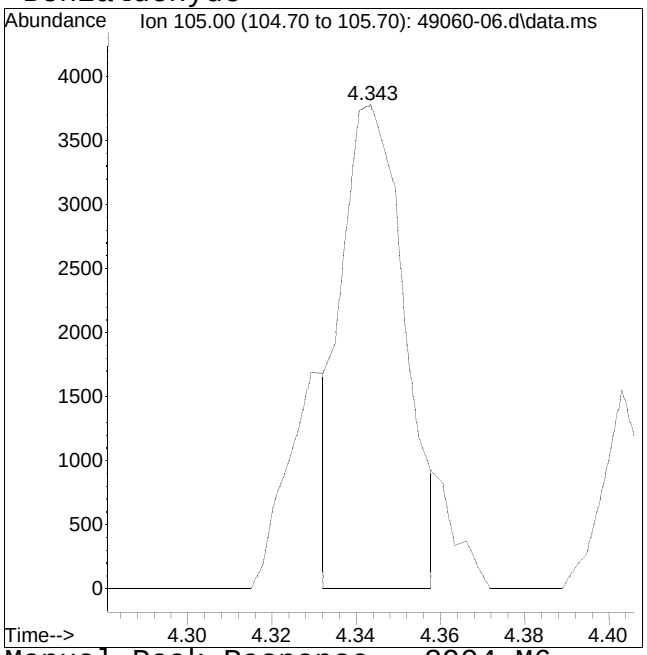
Manual Integration Report

Data Path : I:\8270\SV103\181209\ QMethod : FS181204nSV103.m
Data File : 49060-06.d Operator : SV103:rc
Date Inj'd : 12/9/2018 11:28 pm Instrument : SV103
Sample : l1849060-06d,32,5,ny,rv,kr Quant Date : 12/10/2018 8:34 am

Compound #28: Benzaldehyde



Original Peak Response = 5293



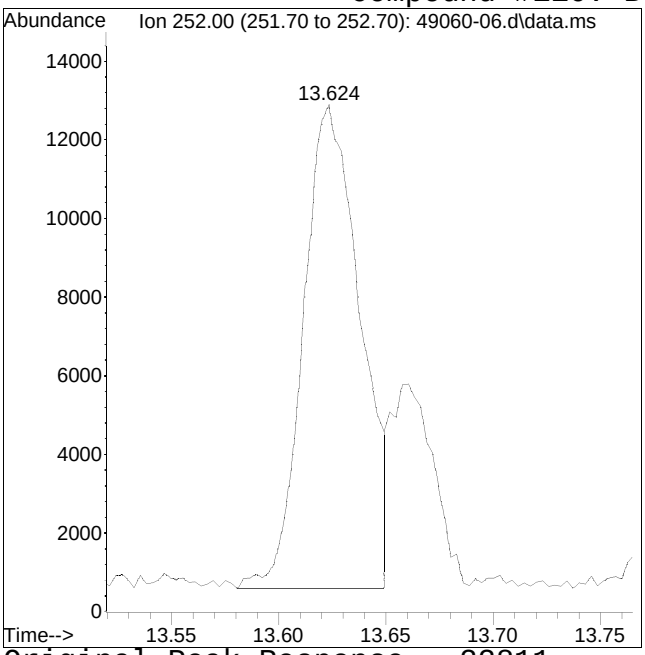
Manual Peak Response = 3904 M6

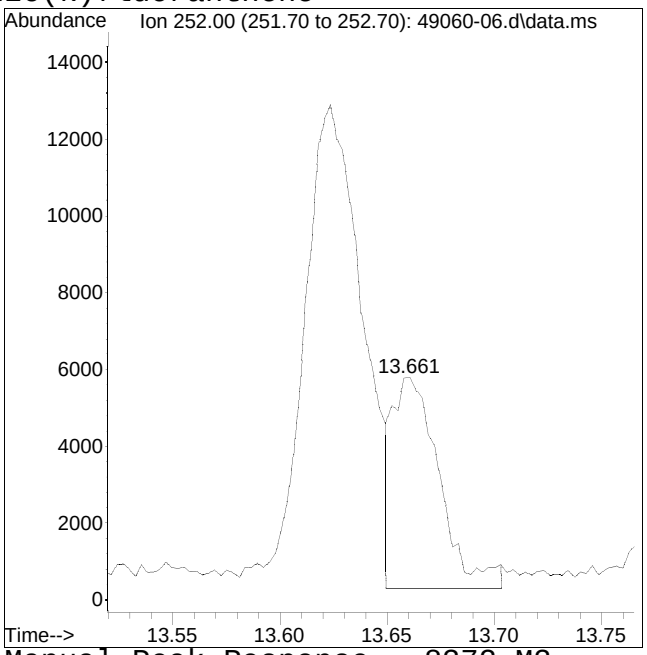
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : I:\8270\SV103\181209\ QMethod : FS181204nSV103.m
Data File : 49060-06.d Operator : SV103:rc
Date Inj'd : 12/9/2018 11:28 pm Instrument : SV103
Sample : l1849060-06d,32,5,ny,rv,kr Quant Date : 12/10/2018 8:34 am

Compound #110: Benzo(k)fluoranthene





Original Peak Response = 22811 Manual Peak Response = 8372 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Semivolatiles Standards Data

Initial Calibration

Initial Calibration Summary
Form 6

Client	**: CHA Companies**	**Lab Number**	**: L1849060**
Project Name	**: 700 SMITH BLVD**	**Project Number**	**: 29852.1202.44000**
Instrument ID	**: SV109**	**Ical Ref**	**: ICAL15112**
Calibration dates	**: 10/03/18 21:43 10/04/18 11:11**		

Calibration Files
1.0 =ADPL1.D 2.0 =ADPL2.D 3.0 =ADPL3.D 5.0 =ADPL4.D 10 =ADPL5.D 20 =ADPL6.D 50 =ADPL7.D
100 =ADPL8.D 150 =ADPL9.D 200 =ADPL10.D

		Compound	1.0	2.0	3.0	5.0	10	20	50	100	150	200	Avg	%RSD
1)	I	IS1_1,4-Dichlorobenzene-d4	----------ISTD----------											
2)	t	N-Nitrosodimethylamine	0.823	0.835	0.820	0.819	0.824	0.840	0.842	0.841	0.834	0.845	0.832	1.19
3)	t	Pyridine	1.406	1.417	1.348	1.420	1.435	1.459	1.460	1.459	1.451	1.486	1.434	2.70
4)	S	2-Fluorophenol	1.175	1.178	1.160	1.193	1.225	1.256	1.278	1.289	1.284	1.321	1.236	4.62
5)	T	Aniline	2.072	2.053	2.029	2.027	2.016	2.084	2.076	2.081	2.083	2.111	2.063	1.49
6)	t	2-Chlorophenol	1.385	1.422	1.373	1.365	1.392	1.433	1.461	1.457	1.476	1.502	1.426	3.29
7)	S	Phenol-d6	1.504	1.438	1.458	1.501	1.492	1.553	1.568	1.595	1.609	1.645	1.536	4.44
8)	T	Phenol	1.634	1.572	1.611	1.596	1.602	1.678	1.689	1.715	1.708	1.744	1.655	3.58
9)	T	bis(2-Chloroethyl)ether	1.315	1.331	1.332	1.344	1.298	1.325	1.338	1.348	1.350	1.376	1.336	1.60
10)	T	1,3-Dichlorobenzene	1.652	1.604	1.563	1.600	1.577	1.604	1.612	1.603	1.597	1.632	1.604	1.56
11)	T	1,4-Dichlorobenzene	1.728	1.724	1.610	1.640	1.622	1.626	1.615	1.637	1.630	1.660	1.649	2.60
12)	T	1,2-Dichlorobenzene	1.699	1.579	1.587	1.586	1.553	1.596	1.574	1.579	1.591	1.612	1.595	2.47
13)	t	Benzyl alcohol	1.021	1.027	1.016	1.073	1.062	1.119	1.168	1.191	1.197	1.206	1.108	7.00
14)	T	bis(2-chloroisopropyl)ether	2.356	2.288	2.228	2.285	2.179	2.257	2.246	2.237	2.217	2.180	2.247	2.37
15)	T	2-Methylphenol	1.256	1.161	1.163	1.190	1.232	1.264	1.265	1.304	1.319	1.326	1.248	4.86
16)	T	Hexachloroethane	0.691	0.652	0.668	0.657	0.647	0.648	0.654	0.658	0.660	0.673	0.661	2.02
17)	T	n-Nitrosodi-n-propylamine	0.940	0.935	0.924	0.926	0.945	1.003	0.989	1.007	1.006	1.028	0.970	4.11
18)	T	3-Methylphenol/4-Methylphenol	1.223	1.222	1.263	1.273	1.239	1.317	1.337	1.365	1.370	1.398	1.301	5.01
19)	S	Nitrobenzene-d5	1.388	1.396	1.368	1.422	1.421	1.459	1.478	1.504	1.495	1.524	1.445	3.73
20)	T	Nitrobenzene	1.404	1.452	1.431	1.458	1.450	1.481	1.506	1.520	1.513	1.543	1.476	2.99
21)	T	Isophorone	2.577	2.633	2.570	2.569	2.564	2.673	2.692	2.710	2.670	2.742	2.640	2.52
22)	T	2-Nitrophenol	0.604	0.613	0.596	0.631	0.677	0.722	0.758	0.775	0.778	0.793	0.695	11.47
23)	T	2,4-Dimethylphenol	1.083	1.135	1.172	1.213	1.218	1.264	1.326	1.372	1.403	1.437	1.262	9.44
24)	T	bis(2-Chloroethoxy)methane	1.664	1.672	1.654	1.643	1.651	1.722	1.739	1.761	1.757	1.800	1.706	3.29
25)	T	2,4-Dichlorophenol	1.111	1.076	1.106	1.113	1.144	1.192	1.228	1.260	1.254	1.295	1.178	6.61
26)	T	1,2,4-Trichlorobenzene	1.418	1.371	1.346	1.345	1.318	1.361	1.360	1.398	1.383	1.434	1.373	2.58
27)	I	IS2_1,4-Dichlorobenzene-d4	----------ISTD----------											
28)	T	Benzaldehyde		1.044	1.047	1.101	1.076	1.113	1.162	1.148	1.139	1.178	1.112	4.39
29)	T	Acetophenone		1.701	1.787	1.823	1.815	1.911	2.002	2.018	1.992	2.066	1.902	6.60
30)	T	m-Toluidine		1.745	1.760	1.822	1.792	1.872	1.950	1.960	1.932	1.991	1.869	4.97
31)	T	2-Chloroaniline		1.653	1.628	1.685	1.690	1.754	1.840	1.842	1.838	1.889	1.758	5.51
32)	I	IS3_1,4-Dichlorobenzene-d4	----------ISTD----------											
33)	T	n-Decane	1.493	1.480	1.593	1.563	1.583	1.546	1.604	1.645	1.671	1.685	1.586	4.34
34)	I	IS1_Naphthalene-d8	----------ISTD----------											
35)	T	Naphthalene	1.077	1.056	1.025	1.039	1.015	1.035	1.041	1.041	1.034	1.065	1.043	1.78
36)	T	Benzoic Acid					0.165	0.209	0.250	0.272	0.277	0.288	*L	0.9993
37)	T	4-Chloroaniline	0.116	0.124	0.124	0.125	0.130	0.135	0.137	0.138	0.139	0.142	0.131	6.55
38)	T	Hexachlorobutadiene	0.196	0.191	0.189	0.191	0.191	0.193	0.195	0.192	0.198	0.206	0.194	2.53

Initial Calibration Summary
Form 6

Client	**: CHA Companies**	**Lab Number**	**: L1849060**
Project Name	**: 700 SMITH BLVD**	**Project Number**	**: 29852.1202.44000**
Instrument ID	**: SV109**	**Ical Ref**	**: ICAL15112**
Calibration dates	**: 10/03/18 21:43 10/04/18 11:11**		

Calibration Files
1.0 =ADPL1.D 2.0 =ADPL2.D 3.0 =ADPL3.D 5.0 =ADPL4.D 10 =ADPL5.D 20 =ADPL6.D 50 =ADPL7.D
100 =ADPL8.D 150 =ADPL9.D 200 =ADPL10.D

		Compound	1.0	2.0	3.0	5.0	10	20	50	100	150	200	Avg	%RSD	
39)	T	p-Chloro-m-cresol	0.230	0.255	0.258	0.266	0.267	0.290	0.299	0.304	0.307	0.321	0.280	10.29	
40)	T	2-Methylnaphthalene	0.694	0.670	0.668	0.672	0.670	0.696	0.702	0.708	0.716	0.741	0.694	3.50	
41)	T	1-Methylnaphthalene	0.243	0.244	0.243	0.233	0.240	0.241	0.246	0.248	0.251	0.261	0.245	3.07	
42)	T	Hexachlorocyclopentadiene				0.195	0.203	0.219	0.233	0.245	0.254	0.263	0.230	11.20	
43)	T	2,4,6-Trichlorophenol	0.170	0.176	0.176	0.185	0.196	0.210	0.217	0.223	0.225	0.240	0.202	12.23	
44)	T	2,4,5-Trichlorophenol	0.179	0.195	0.193	0.211	0.211	0.215	0.229	0.236	0.243	0.255	0.217	11.05	
45)	S	2-Fluorobiphenyl	0.748	0.766	0.761	0.761	0.747	0.761	0.780	0.781	0.783	0.813	0.770	2.58	
46)	T	2-Chloronaphthalene	0.631	0.632	0.633	0.626	0.640	0.648	0.668	0.675	0.670	0.700	0.652	3.77	
47)	T	2-Nitroaniline		0.167	0.173	0.182	0.195	0.214	0.223	0.230	0.229	0.242	0.206	13.31	
48)	T	1,4-Dinitrobenzene				0.073	0.083	0.091	0.099	0.104	0.103	0.110	0.095	13.81	
49)	T	1,3-Dinitrobenzene				0.091	0.100	0.105	0.116	0.120	0.118	0.126	0.111	11.26	
50)	T	Dimethyl phthalate	0.743	0.743	0.733	0.741	0.740	0.771	0.799	0.815	0.797	0.840	0.772	4.91	
51)	T	Acenaphthylene	1.031	1.010	1.013	1.016	1.017	1.058	1.076	1.084	1.068	1.127	1.050	3.70	
52)	T	2,6-Dinitrotoluene	0.135	0.145	0.144	0.150	0.160	0.170	0.173	0.174	0.171	0.184	0.161	9.99	
53)	T	1,2-Dinitrobenzene				0.067	0.069	0.068	0.075	0.075	0.073	0.077	0.072	5.39	
54)	I	IS2_Naphthalene-d8	----------ISTD----------												
55)	T	a-Terpineol		0.287	0.293	0.290	0.294	0.302	0.307	0.311	0.306	0.311	0.300	3.05	
56)	T	3-Chloroaniline		0.133	0.140	0.149	0.138	0.143	0.148	0.151	0.149	0.152	0.145	4.54	
57)	T	2,6-Dichlorophenol		0.234	0.238	0.252	0.262	0.275	0.282	0.287	0.288	0.298	0.268	8.57	
58)	T	1-chloro-2-nitrobenzene		0.114	0.122	0.128	0.131	0.135	0.141	0.143	0.143	0.150	0.134	8.51	
59)	T	Caprolactam		0.129	0.142	0.156	0.158	0.169	0.174	0.177	0.175	0.182	0.162	10.98	
60)	T	1,2,4,5-Tetrachlorobenzene		0.316	0.300	0.310	0.311	0.315	0.320	0.323	0.327	0.335	0.317	3.24	
61)	T	Biphenyl		0.760	0.760	0.779	0.782	0.807	0.810	0.820	0.806	0.834	0.795	3.30	
62)	I	IS1_Acenaphthene-d10	----------ISTD----------												
63)	T	3-Nitroaniline	0.318	0.324	0.334	0.345	0.362	0.386	0.397	0.409	0.401	0.417	0.369	10.05	
64)	T	Acenaphthene	1.284	1.264	1.186	1.177	1.199	1.203	1.201	1.230	1.237	1.253	1.223	2.93	
65)	T	2,4-Dinitrophenol				0.098	0.122	0.150	0.180	0.200	0.203	0.208	*L	0.9984	
66)	T	Dibenzofuran	1.988	1.947	1.880	1.863	1.904	1.902	1.907	1.933	1.912	1.950	1.919	1.90	
67)	T	2,4-Dinitrotoluene		0.350	0.352	0.394	0.417	0.446	0.472	0.479	0.473	0.490	0.430	12.68	
68)	T	4-Nitrophenol				0.249	0.279	0.295	0.322	0.335	0.331	0.339	0.307	11.08	
69)	T	2,3,5,6-Tetrachlorophenol	0.312	0.313	0.319	0.348	0.363	0.377	0.403	0.415	0.421	0.440	0.371	12.82	
70)	T	2,3,4,6-Tetrachlorophenol	0.360	0.357	0.366	0.366	0.392	0.394	0.404	0.428	0.424	0.442	0.393	7.80	
71)	T	Diethyl phthalate	1.584	1.593	1.468	1.538	1.581	1.619	1.665	1.671	1.656	1.711	1.609	4.44	
72)	T	Fluorene	1.526	1.438	1.415	1.426	1.460	1.467	1.498	1.517	1.518	1.560	1.483	3.27	
73)	T	4-Chlorophenyl-phenylether	0.680	0.723	0.681	0.691	0.712	0.712	0.723	0.742	0.739	0.765	0.717	3.85	
74)	T	4-Nitroaniline		0.320	0.294	0.345	0.354	0.377	0.403	0.402	0.391	0.408	0.366	11.04	
75)	T	4,6-Dinitro-o-cresol				0.154	0.186	0.218	0.243	0.265	0.259	0.273	*L	0.9966	
76)	T	NDPA/DPA	1.255	1.217	1.172	1.208	1.243	1.248	1.288	1.308	1.298	1.332	1.257	3.97	

Initial Calibration Summary
Form 6

Client	**: CHA Companies**	**Lab Number**	**: L1849060**
Project Name	**: 700 SMITH BLVD**	**Project Number**	**: 29852.1202.44000**
Instrument ID	**: SV109**	**Ical Ref**	**: ICAL15112**
Calibration dates	**: 10/03/18 21:43 10/04/18 11:11**		

Calibration Files
1.0 =ADPL1.D 2.0 =ADPL2.D 3.0 =ADPL3.D 5.0 =ADPL4.D 10 =ADPL5.D 20 =ADPL6.D 50 =ADPL7.D
100 =ADPL8.D 150 =ADPL9.D 200 =ADPL10.D

		Compound	1.0	2.0	3.0	5.0	10	20	50	100	150	200	Avg	%RSD
77)	T	Azobenzene	1.495	1.493	1.436	1.470	1.529	1.553	1.574	1.603	1.577	1.585	1.532	3.65
78)	S	2,4,6-Tribromophenol		0.215	0.216	0.230	0.250	0.263	0.282	0.298	0.305	0.322	0.265	14.96
79)	T	4-Bromophenyl-phenylether	0.433	0.443	0.406	0.412	0.423	0.422	0.435	0.458	0.460	0.484	0.438	5.49
80)	T	Hexachlorobenzene	0.551	0.527	0.499	0.516	0.526	0.536	0.539	0.568	0.565	0.597	0.542	5.28
81)	T	Pentachlorophenol			0.195	0.223	0.243	0.286	0.316	0.339	0.338	0.364	*L	0.9974
82)	I	IS2_Acenaphthene-d10	----------ISTD----------											
83)	T	Dichloran				0.141	0.147	0.164	0.183	0.196	0.202	0.211	0.178	15.43
84)	T	Pentachloronitrobenzene				0.165	0.175	0.184	0.190	0.205	0.209	0.218	0.192	9.94
85)	I	IS3_Acenaphthene-d10	----------ISTD----------											
86)	T	Atrazine	0.261	0.274	0.327	0.328	0.339	0.352	0.385	0.396	0.405	0.418	0.348	15.35
87)	I	IS1_Phenanthrene-d10	----------ISTD----------											
88)	T	Phenanthrene	1.186	1.132	1.114	1.099	1.082	1.129	1.126	1.129	1.140	1.166	1.130	2.64
89)	T	Anthracene	1.072	1.088	1.027	1.071	1.099	1.136	1.153	1.171	1.192	1.207	1.122	5.26
90)	T	Carbazole	1.001	0.992	0.975	1.011	1.011	1.062	1.080	1.083	1.095	1.120	1.043	4.85
91)	T	Di-n-butylphthalate	1.158	1.189	1.174	1.199	1.236	1.350	1.400	1.430	1.428	1.460	1.303	9.37
92)	T	Fluoranthene	1.209	1.140	1.123	1.145	1.128	1.206	1.223	1.245	1.248	1.290	1.196	4.88
93)	T	Benzidine	0.617	0.639	0.655	0.671	0.720	0.795	0.797	0.842	0.867	0.901	0.750	13.72
94)	T	Pyrene	1.206	1.214	1.207	1.233	1.214	1.278	1.291	1.294	1.294	1.337	1.257	3.76
95)	S	4-Terphenyl-d14	0.892	0.857	0.872	0.885	0.888	0.951	0.982	1.005	1.012	1.054	0.940	7.41
96)	T	Butyl benzyl phthalate		0.454	0.463	0.495	0.525	0.578	0.619	0.641	0.643	0.678	0.566	14.90
97)	I	IS2_Phenanthrene-d10	----------ISTD----------											
98)	T	Diphenamid		0.461	0.445	0.460	0.482	0.492	0.513	0.536	0.548	0.565	0.500	8.50
99)	I	IS3_Phenanthrene-d10	----------ISTD----------											
100)	T	n-Octadecane	0.415	0.416	0.462	0.496	0.499	0.519	0.528	0.551	0.548	0.542	0.498	10.29
101)	T	Parathion				0.096	0.104	0.120	0.139	0.151	0.158	0.163	0.133	19.97
102)	T	3,3'-Dimethylbenzidine		0.443	0.519	0.606	0.619	0.676	0.753	0.775	0.812	0.816	0.669	19.80
103)	I	IS1_Chrysene-d12	----------ISTD----------											
104)	T	Benzo[a]anthracene	1.434	1.274	1.227	1.199	1.199	1.215	1.211	1.177	1.167	1.169	1.227	6.46
105)	T	3,3'-Dichlorobenzidine	0.440	0.443	0.435	0.469	0.487	0.500	0.514	0.509	0.508	0.512	0.482	6.67
106)	T	Chrysene	1.349	1.267	1.156	1.223	1.173	1.181	1.135	1.099	1.095	1.092	1.177	7.06
107)	T	bis(2-Ethylhexyl)phthalate	0.669	0.696	0.704	0.758	0.812	0.856	0.888	0.872	0.862	0.885	0.800	10.70
108)	T	Di-n-octylphthalate		1.005	1.074	1.155	1.294	1.403	1.484	1.485	1.471	1.508	1.320	14.84
109)	T	Benzo(b)fluoranthene	1.280	1.083	1.004	1.065	1.064	1.106	1.138	1.095	1.111	1.134	1.108	6.49
110)	T	Benzo(k)fluoranthene	1.405	1.322	1.277	1.199	1.213	1.254	1.190	1.153	1.137	1.144	1.229	7.02
111)	T	Benzo(a)pyrene	1.281	1.093	1.072	1.088	1.085	1.114	1.137	1.099	1.102	1.105	1.118	5.39
112)	I	IS1_Perylene-d12	----------ISTD----------											
113)	T	Indeno(1,2,3-cd)pyrene	0.948	0.912	0.899	0.926	0.946	1.013	1.085	1.106	1.140	1.210	1.019	10.73
114)	T	Dibenzo[a,h]anthracene	0.988	0.966	0.933	0.973	0.993	1.050	1.143	1.164	1.195	1.311	1.072	11.63

Initial Calibration Summary
Form 6

Client	**: CHA Companies**	**Lab Number**	**: L1849060**
Project Name	**: 700 SMITH BLVD**	**Project Number**	**: 29852.1202.44000**
Instrument ID	**: SV109**	**Ical Ref**	**: ICAL15112**
Calibration dates	**: 10/03/18 21:43 10/04/18 11:11**		

Calibration Files
1.0 =ADPL1.D 2.0 =ADPL2.D 3.0 =ADPL3.D 5.0 =ADPL4.D 10 =ADPL5.D 20 =ADPL6.D 50 =ADPL7.D
100 =ADPL8.D 150 =ADPL9.D 200 =ADPL10.D

	Compound	1.0	2.0	3.0	5.0	10	20	50	100	150	200	Avg	%RSD
115) T	Benzo(g,h,i)perylene	1.173	1.097	1.046	1.070	1.065	1.121	1.169	1.173	1.201	1.281	1.140	6.43

Initial Calibration Summary
Form 6

Client	**: CHA Companies**	**Lab Number**	**: L1849060**
Project Name	**: 700 SMITH BLVD**	**Project Number**	**: 29852.1202.44000**
Instrument ID	**: SV103**	**Ical Ref**	**: ICAL15305**
Calibration dates	**: 12/05/18 00:09 12/06/18 00:14**		

Calibration Files
1.0 =ADPL1r.d 2.0 =ADPL2r.d 3.0 =ADPL3r.d 5.0 =ADPL4r.d 10 =ADPL5r.d 20 =ADPL6r.d 50 =ADPL7
100 =ADPL8r.d 150 =ADPL9r.d 200 =ADPL10r.d

		Compound	1.0	2.0	3.0	5.0	10	20	50	100	150	200	Avg	%RSD
1)	I	IS1_1,4-Dichlorobenzene-d4	----------ISTD----------											
2)	t	N-Nitrosodimethylamine	1.046	0.969	0.923	0.895	0.887	0.840	0.801	0.820	0.785	0.890	0.886	9.06
3)	t	Pyridine	1.503	1.355	1.251	1.402	1.322	1.430	1.347	1.388	1.349	1.500	1.385	5.63
4)	S	2-Fluorophenol	1.342	1.325	1.353	1.370	1.315	1.327	1.297	1.322	1.277	1.351	1.328	2.09
5)	T	Aniline	2.250	2.269	2.228	2.145	2.160	2.079	2.054	2.086	2.019	2.172	2.146	4.00
6)	t	2-Chlorophenol	1.512	1.355	1.497	1.493	1.463	1.470	1.458	1.475	1.447	1.516	1.469	3.13
7)	S	Phenol-d6	1.694	1.652	1.737	1.697	1.680	1.649	1.623	1.645	1.593	1.718	1.669	2.67
8)	T	Phenol	2.153	1.967	2.001	1.998	1.958	1.926	1.881	1.917	1.834	1.996	1.963	4.39
9)	T	bis(2-Chloroethyl)ether	1.604	1.458	1.501	1.438	1.388	1.333	1.312	1.311	1.268	1.372	1.398	7.35
10)	T	1,3-Dichlorobenzene	1.575	1.580	1.540	1.584	1.543	1.551	1.522	1.543	1.481	1.547	1.546	1.96
11)	T	1,4-Dichlorobenzene	1.715	1.637	1.597	1.603	1.567	1.560	1.551	1.592	1.528	1.597	1.595	3.29
12)	T	1,2-Dichlorobenzene	1.578	1.547	1.565	1.493	1.518	1.478	1.481	1.515	1.457	1.535	1.517	2.62
13)	t	Benzyl alcohol	1.199	1.129	1.153	1.111	1.139	1.134	1.139	1.183	1.167	1.273	1.163	4.04
14)	T	bis(2-chloroisopropyl)ether	3.571	3.337	3.265	2.982	2.828	2.615	2.481	2.461	2.374	2.749	2.866	14.35
15)	T	2-Methylphenol	1.348	1.308	1.325	1.276	1.314	1.291	1.281	1.312	1.270	1.371	1.310	2.47
16)	T	Hexachloroethane	0.668	0.593	0.607	0.619	0.610	0.581	0.586	0.605	0.590	0.639	0.610	4.36
17)	T	n-Nitrosodi-n-propylamine	1.094	1.042	1.012	1.040	1.037	1.020	1.009	1.029	1.005	1.098	1.038	3.18
18)	T	3-Methylphenol/4-Methylphenol	1.374	1.332	1.352	1.359	1.380	1.350	1.348	1.377	1.336	1.451	1.366	2.50
19)	S	Nitrobenzene-d5	1.606	1.535	1.560	1.489	1.524	1.473	1.514	1.563	1.513	1.661	1.544	3.64
20)	T	Nitrobenzene	1.598	1.574	1.578	1.581	1.548	1.513	1.514	1.559	1.500	1.650	1.561	2.92
21)	T	Isophorone	2.656	2.479	2.682	2.541	2.641	2.619	2.623	2.721	2.632	2.913	2.651	4.32
22)	T	2-Nitrophenol	0.688	0.647	0.719	0.700	0.761	0.764	0.799	0.822	0.818	0.855	0.757	8.91
23)	T	2,4-Dimethylphenol	1.239	1.271	1.329	1.310	1.308	1.299	1.309	1.362	1.334	1.450	1.321	4.29
24)	T	bis(2-Chloroethoxy)methane	1.716	1.679	1.769	1.702	1.753	1.666	1.656	1.669	1.620	1.765	1.699	2.97
25)	T	2,4-Dichlorophenol	1.005	0.984	1.045	1.063	1.093	1.075	1.105	1.158	1.113	1.191	1.083	5.87
26)	T	1,2,4-Trichlorobenzene	1.210	1.136	1.156	1.163	1.192	1.167	1.192	1.235	1.195	1.249	1.189	2.96
27)	I	IS2_1,4-Dichlorobenzene-d4	----------ISTD----------											
28)	T	Benzaldehyde			1.172	1.184	1.125	1.137	1.161	1.173	1.181	1.196	1.166	2.07
29)	T	Acetophenone	1.682	1.864	1.839	1.856	1.837	1.858	1.941	1.954	2.003	2.052	1.889	5.50
30)	T	m-Toluidine	1.717	1.990	1.930	2.006	1.974	1.998	2.091	2.073	2.106	2.177	2.006	6.25
31)	T	2-Chloroaniline	1.556	1.812	1.774	1.774	1.737	1.740	1.854	1.854	1.895	1.987	1.798	6.38
32)	I	IS3_1,4-Dichlorobenzene-d4	----------ISTD----------											
33)	T	n-Decane	0.996	0.993	0.921	0.923	0.941	0.979	0.986	1.003	1.016	1.001	0.976	3.56
34)	I	IS1_Naphthalene-d8	----------ISTD----------											
35)	T	Naphthalene	1.018	0.962	0.997	0.985	0.995	0.969	0.966	0.974	0.980	0.983	0.983	1.72
36)	T	Benzoic Acid					0.194	0.221	0.251	0.271	0.276	0.278	0.249	13.81
37)	T	4-Chloroaniline	0.129	0.125	0.133	0.127	0.124	0.117	0.120	0.120	0.119	0.123	0.124	3.93
38)	T	Hexachlorobutadiene	0.125	0.109	0.128	0.120	0.127	0.126	0.126	0.133	0.133	0.128	0.125	5.53

Initial Calibration Summary
Form 6

Client	**: CHA Companies**	**Lab Number**	**: L1849060**
Project Name	**: 700 SMITH BLVD**	**Project Number**	**: 29852.1202.44000**
Instrument ID	**: SV103**	**Ical Ref**	**: ICAL15305**
Calibration dates	**: 12/05/18 00:09 12/06/18 00:14**		

Calibration Files
1.0 =ADPL1r.d 2.0 =ADPL2r.d 3.0 =ADPL3r.d 5.0 =ADPL4r.d 10 =ADPL5r.d 20 =ADPL6r.d 50 =ADPL7
100 =ADPL8r.d 150 =ADPL9r.d 200 =ADPL10r.d

		Compound	1.0	2.0	3.0	5.0	10	20	50	100	150	200	Avg	%RSD
39)	T	p-Chloro-m-cresol	0.269	0.243	0.269	0.259	0.266	0.271	0.273	0.284	0.279	0.281	0.269	4.38
40)	T	2-Methylnaphthalene	0.667	0.612	0.646	0.631	0.646	0.658	0.649	0.664	0.656	0.663	0.649	2.63
41)	T	1-Methylnaphthalene	0.206	0.200	0.207	0.205	0.206	0.204	0.205	0.210	0.206	0.210	0.206	1.34
42)	T	Hexachlorocyclopentadiene	0.133	0.140	0.133	0.151	0.148	0.151	0.160	0.171	0.173	0.170	0.153	9.97
43)	T	2,4,6-Trichlorophenol	0.157	0.154	0.150	0.152	0.162	0.168	0.176	0.183	0.179	0.178	0.166	7.53
44)	T	2,4,5-Trichlorophenol	0.161	0.145	0.161	0.161	0.178	0.181	0.186	0.193	0.190	0.187	0.174	9.22
45)	S	2-Fluorobiphenyl	0.608	0.576	0.595	0.599	0.626	0.628	0.636	0.655	0.652	0.659	0.623	4.54
46)	T	2-Chloronaphthalene	0.549	0.539	0.549	0.535	0.554	0.562	0.570	0.592	0.582	0.587	0.562	3.60
47)	T	2-Nitroaniline		0.171	0.172	0.177	0.191	0.198	0.213	0.229	0.227	0.231	0.201	12.41
48)	T	1,4-Dinitrobenzene				0.069	0.081	0.090	0.095	0.103	0.103	0.101	0.092	13.85
49)	T	1,3-Dinitrobenzene			0.081	0.084	0.093	0.100	0.108	0.114	0.113	0.112	0.100	13.08
50)	T	Dimethyl phthalate	0.589	0.563	0.597	0.587	0.635	0.646	0.665	0.699	0.687	0.689	0.636	7.74
51)	T	Acenaphthylene	0.859	0.814	0.881	0.877	0.932	0.945	0.962	1.007	0.986	0.995	0.926	7.03
52)	T	2,6-Dinitrotoluene	0.116	0.114	0.123	0.123	0.138	0.147	0.154	0.165	0.160	0.157	0.140	13.89
53)	T	1,2-Dinitrobenzene			0.051	0.054	0.067	0.068	0.068	0.074	0.071	0.071	0.066	12.71
54)	I	IS2_Naphthalene-d8	----------ISTD----------											
55)	T	a-Terpineol	0.305	0.312	0.309	0.311	0.307	0.309	0.310	0.298	0.288	0.301	0.305	2.47
56)	T	3-Chloroaniline	0.152	0.151	0.141	0.148	0.144	0.142	0.138	0.133	0.130	0.133	0.141	5.44
57)	T	2,6-Dichlorophenol	0.226	0.222	0.235	0.219	0.227	0.230	0.240	0.239	0.239	0.243	0.232	3.56
58)	T	1-chloro-2-nitrobenzene	0.121	0.117	0.118	0.128	0.122	0.123	0.132	0.132	0.131	0.135	0.126	5.12
59)	T	Caprolactam		0.167	0.162	0.167	0.170	0.174	0.174	0.171	0.167	0.176	0.170	2.59
60)	T	1,2,4,5-Tetrachlorobenzene	0.209	0.214	0.222	0.212	0.205	0.209	0.222	0.226	0.224	0.231	0.217	3.97
61)	T	Biphenyl	0.694	0.701	0.694	0.681	0.676	0.685	0.709	0.725	0.716	0.743	0.702	2.97
62)	I	IS1_Acenaphthene-d10	----------ISTD----------											
63)	T	3-Nitroaniline	0.324	0.323	0.360	0.364	0.388	0.407	0.412	0.425	0.412	0.425	0.384	10.19
64)	T	Acenaphthene	1.231	1.235	1.188	1.212	1.205	1.205	1.178	1.200	1.174	1.221	1.205	1.74
65)	T	2,4-Dinitrophenol				0.172	0.187	0.207	0.220	0.239	0.235	0.239	0.214	12.48
66)	T	Dibenzofuran	1.712	1.791	1.747	1.728	1.783	1.736	1.753	1.785	1.729	1.794	1.756	1.72
67)	T	2,4-Dinitrotoluene	0.339	0.336	0.382	0.366	0.421	0.436	0.443	0.470	0.443	0.454	0.409	12.00
68)	T	4-Nitrophenol		0.331	0.311	0.308	0.335	0.337	0.333	0.351	0.340	0.360	0.334	5.00
69)	T	2,3,5,6-Tetrachlorophenol		0.251	0.279	0.292	0.302	0.308	0.311	0.332	0.324	0.329	0.303	8.58
70)	T	2,3,4,6-Tetrachlorophenol		0.293	0.293	0.278	0.300	0.309	0.313	0.330	0.318	0.326	0.307	5.60
71)	T	Diethyl phthalate	1.448	1.423	1.440	1.414	1.501	1.514	1.511	1.600	1.542	1.599	1.499	4.53
72)	T	Fluorene	1.416	1.421	1.358	1.349	1.431	1.405	1.418	1.458	1.411	1.450	1.412	2.47
73)	T	4-Chlorophenyl-phenylether	0.609	0.609	0.605	0.606	0.611	0.602	0.600	0.630	0.605	0.624	0.610	1.57
74)	T	4-Nitroaniline	0.301	0.321	0.334	0.348	0.386	0.399	0.412	0.433	0.419	0.435	0.379	12.91
75)	T	4,6-Dinitro-o-cresol				0.196	0.220	0.239	0.251	0.273	0.264	0.272	0.245	11.71
76)	T	NDPA/DPA	1.174	1.122	1.143	1.127	1.209	1.203	1.208	1.259	1.212	1.266	1.192	4.23

Initial Calibration Summary
Form 6

Client	**: CHA Companies**	**Lab Number**	**: L1849060**
Project Name	**: 700 SMITH BLVD**	**Project Number**	**: 29852.1202.44000**
Instrument ID	**: SV103**	**Ical Ref**	**: ICAL15305**
Calibration dates	**: 12/05/18 00:09 12/06/18 00:14**		

Calibration Files
1.0 =ADPL1r.d 2.0 =ADPL2r.d 3.0 =ADPL3r.d 5.0 =ADPL4r.d 10 =ADPL5r.d 20 =ADPL6r.d 50 =ADPL7
100 =ADPL8r.d 150 =ADPL9r.d 200 =ADPL10r.d

		Compound	1.0	2.0	3.0	5.0	10	20	50	100	150	200	Avg	%RSD
77)	T	Azobenzene	1.530	1.691	1.631	1.570	1.648	1.611	1.567	1.604	1.511	1.613	1.598	3.40
78)	S	2,4,6-Tribromophenol		0.144	0.159	0.148	0.158	0.163	0.174	0.186	0.181	0.179	0.166	8.99
79)	T	4-Bromophenyl-phenylether	0.333	0.336	0.301	0.313	0.322	0.327	0.327	0.342	0.331	0.349	0.328	4.24
80)	T	Hexachlorobenzene	0.335	0.348	0.334	0.341	0.348	0.352	0.359	0.384	0.371	0.378	0.355	4.94
81)	T	Pentachlorophenol			0.195	0.193	0.213	0.223	0.237	0.248	0.243	0.247	0.225	9.97
82)	I	IS2_Acenaphthene-d10	----------ISTD----------											
83)	T	Dichloran			0.119	0.109	0.117	0.125	0.141	0.153	0.160	0.162	0.136	15.41
84)	T	Pentachloronitrobenzene				0.107	0.119	0.117	0.124	0.126	0.132	0.133	0.123	7.42
85)	I	IS3_Acenaphthene-d10	----------ISTD----------											
86)	T	Atrazine	0.290	0.263	0.275	0.277	0.289	0.311	0.321	0.348	0.360	0.367	0.310	12.05
87)	I	IS1_Phenanthrene-d10	----------ISTD----------											
88)	T	Phenanthrene	1.118	1.113	1.121	1.108	1.109	1.083	1.072	1.102	1.083	1.119	1.103	1.57
89)	T	Anthracene	1.076	1.065	1.057	1.072	1.094	1.085	1.096	1.138	1.127	1.161	1.097	3.12
90)	T	Carbazole	0.990	0.966	0.983	0.990	1.046	1.043	1.026	1.060	1.022	1.046	1.017	3.19
91)	T	Di-n-butylphthalate	1.196	1.202	1.208	1.207	1.292	1.329	1.350	1.417	1.382	1.438	1.302	7.25
92)	T	Fluoranthene	1.075	1.077	1.059	1.052	1.069	1.099	1.065	1.117	1.085	1.102	1.080	1.90
93)	T	Benzidine		0.675	0.688	0.702	0.731	0.764	0.721	0.788	0.794	0.804	0.741	6.52
94)	T	Pyrene	1.130	1.110	1.104	1.073	1.117	1.151	1.106	1.155	1.112	1.139	1.120	2.20
95)	S	4-Terphenyl-d14	0.754	0.764	0.763	0.727	0.768	0.784	0.773	0.819	0.813	0.823	0.779	4.00
96)	T	Butyl benzyl phthalate			0.529	0.502	0.546	0.584	0.583	0.623	0.613	0.636	0.577	8.24
97)	I	IS2_Phenanthrene-d10	----------ISTD----------											
98)	T	Diphenamid			0.433	0.424	0.422	0.449	0.489	0.523	0.531	0.538	0.476	10.47
99)	I	IS3_Phenanthrene-d10	----------ISTD----------											
100)	T	n-Octadecane	0.344	0.365	0.346	0.366	0.368	0.379	0.386	0.418	0.429	0.454	0.386	9.46
101)	T	Parathion				0.088	0.098	0.105	0.129	0.153	0.169	0.183	*Q	0.9996
102)	T	3,3'-Dimethylbenzidine			0.510	0.519	0.581	0.624	0.695	0.764	0.835	0.839	0.671	19.82
103)	I	IS1_Chrysene-d12	----------ISTD----------											
104)	T	Benzo[a]anthracene	1.236	1.165	1.188	1.147	1.168	1.148	1.166	1.172	1.175	1.205	1.177	2.27
105)	T	3,3'-Dichlorobenzidine		0.398	0.393	0.413	0.420	0.433	0.447	0.448	0.444	0.457	0.428	5.44
106)	T	Chrysene	1.121	1.127	1.118	1.117	1.127	1.109	1.099	1.101	1.086	1.111	1.112	1.19
107)	T	bis(2-Ethylhexyl)phthalate		0.836	0.881	0.842	0.898	0.924	0.970	1.005	0.991	1.019	0.930	7.51
108)	T	Di-n-octylphthalate			1.428	1.413	1.540	1.593	1.678	1.716	1.718	1.781	1.608	8.60
109)	T	Benzo(b)fluoranthene	1.101	1.061	1.036	1.064	1.120	1.097	1.112	1.061	1.053	1.072	1.078	2.57
110)	T	Benzo(k)fluoranthene	1.077	1.085	1.071	1.077	1.081	1.106	1.098	1.088	1.048	1.091	1.082	1.48
111)	T	Benzo(a)pyrene	1.025	1.002	1.009	1.006	1.065	1.091	1.085	1.058	1.040	1.067	1.045	3.17
112)	I	IS1_Perylene-d12	----------ISTD----------											
113)	T	Indeno(1,2,3-cd)pyrene	0.980	0.999	0.961	0.988	1.005	1.000	1.022	1.036	1.014	1.024	1.003	2.24
114)	T	Dibenzo[a,h]anthracene	0.961	0.990	1.002	1.013	1.022	1.030	1.041	1.048	1.031	1.108	1.025	3.80

Initial Calibration Summary
Form 6

Client	**: CHA Companies**	**Lab Number**	**: L1849060**
Project Name	**: 700 SMITH BLVD**	**Project Number**	**: 29852.1202.44000**
Instrument ID	**: SV103**	**Ical Ref**	**: ICAL15305**
Calibration dates	**: 12/05/18 00:09 12/06/18 00:14**		

Calibration Files
1.0 =ADPL1r.d 2.0 =ADPL2r.d 3.0 =ADPL3r.d 5.0 =ADPL4r.d 10 =ADPL5r.d 20 =ADPL6r.d 50 =ADPL7
100 =ADPL8r.d 150 =ADPL9r.d 200 =ADPL10r.d

	Compound	1.0	2.0	3.0	5.0	10	20	50	100	150	200	Avg	%RSD
115) T	Benzo(g,h,i)perylene	1.087	1.073	1.041	1.075	1.082	1.063	1.074	1.065	1.033	1.038	1.063	1.80

Initial Calibration Summary
Form 6

Client	**: CHA Companies**	**Lab Number**	**: L1849060**
Project Name	**: 700 SMITH BLVD**	**Project Number**	**: 29852.1202.44000**
Instrument ID	**: SV112**	**Ical Ref**	**: ICAL15308**
Calibration dates	**: 12/05/18 20:17 12/06/18 09:51**		

Calibration Files
1.0 =AP9L1.D 2.0 =AP9L2.D 3.0 =AP9L3.D 5.0 =AP9L4.D 10 =AP9L5.D 20 =ADPL6.D 50 =AP9L7.D
100 =AP9L8.D 150 =AP9L9.D 200 =AP9L10.D

		Compound	1.0	2.0	3.0	5.0	10	20	50	100	150	200	Avg	%RSD
1)	I	IS1_1,4-Dichlorobenzene-d4	----------ISTD----------											
2)	t	N-Nitrosodimethylamine	0.899	0.950	0.923	0.903	0.933	0.927	0.932	0.936	0.943	0.961	0.931	2.04
3)	t	Pyridine	1.299	1.585	1.609	1.594	1.667	1.620	1.612	1.632	1.662	1.685	1.597	6.87
4)	S	2-Fluorophenol	1.355	1.352	1.392	1.410	1.417	1.375	1.410	1.438	1.448	1.464	1.406	2.71
5)	T	Aniline	2.260	2.301	2.302	2.279	2.322	2.320	2.278	2.255	2.211	2.143	2.267	2.43
6)	t	2-Chlorophenol	1.421	1.473	1.443	1.473	1.513	1.520	1.516	1.526	1.541	1.542	1.497	2.80
7)	S	Phenol-d6	1.647	1.734	1.696	1.686	1.735	1.741	1.717	1.722	1.710	1.677	1.707	1.76
8)	T	Phenol	1.922	2.011	1.974	2.021	2.041	2.023	1.994	2.001	1.957	1.923	1.987	2.09
9)	T	bis(2-Chloroethyl)ether	1.476	1.501	1.473	1.451	1.439	1.431	1.393	1.402	1.387	1.384	1.434	2.88
10)	T	1,3-Dichlorobenzene	1.683	1.684	1.636	1.649	1.680	1.610	1.604	1.623	1.616	1.613	1.640	1.96
11)	T	1,4-Dichlorobenzene	1.668	1.777	1.698	1.696	1.709	1.635	1.636	1.649	1.624	1.613	1.671	3.01
12)	T	1,2-Dichlorobenzene	1.656	1.714	1.628	1.619	1.632	1.572	1.552	1.568	1.545	1.505	1.599	3.87
13)	t	Benzyl alcohol	1.041	1.095	1.079	1.099	1.155	1.182	1.177	1.190	1.186	1.166	1.137	4.71
14)	T	bis(2-chloroisopropyl)ether	2.138	2.112	2.078	2.083	2.062	2.037	1.951	1.934	1.899	1.850	2.014	4.89
15)	T	2-Methylphenol	1.246	1.323	1.303	1.330	1.379	1.378	1.354	1.356	1.349	1.325	1.334	2.95
16)	T	Hexachloroethane	0.610	0.644	0.607	0.611	0.622	0.609	0.615	0.629	0.628	0.630	0.620	1.94
17)	T	n-Nitrosodi-n-propylamine	0.972	1.013	1.002	0.981	1.005	1.033	1.019	1.021	1.012	0.995	1.005	1.87
18)	T	3-Methylphenol/4-Methylphenol	1.298	1.349	1.371	1.388	1.435	1.475	1.438	1.431	1.412	1.393	1.399	3.65
19)	S	Nitrobenzene-d5	1.503	1.461	1.440	1.441	1.479	1.519	1.496	1.516	1.518	1.499	1.487	2.04
20)	T	Nitrobenzene	1.508	1.508	1.467	1.498	1.557	1.567	1.539	1.543	1.530	1.491	1.521	2.07
21)	T	Isophorone	2.498	2.574	2.558	2.577	2.733	2.841	2.763	2.773	2.730	2.703	2.675	4.26
22)	T	2-Nitrophenol				0.621	0.675	0.726	0.742	0.772	0.770	0.773	0.726	7.99
23)	T	2,4-Dimethylphenol		1.317	1.324	1.352	1.420	1.479	1.433	1.451	1.435	1.426	1.404	4.14
24)	T	bis(2-Chloroethoxy)methane	1.779	1.787	1.782	1.755	1.838	1.848	1.773	1.783	1.745	1.723	1.781	2.14
25)	T	2,4-Dichlorophenol		1.083	1.103	1.106	1.164	1.223	1.194	1.216	1.210	1.185	1.165	4.64
26)	T	1,2,4-Trichlorobenzene	1.300	1.353	1.278	1.269	1.296	1.285	1.260	1.262	1.248	1.237	1.279	2.55
27)	I	IS2_1,4-Dichlorobenzene-d4	----------ISTD----------											
28)	T	Benzaldehyde	1.206	1.207	1.157	1.172	1.181	1.184	1.180	1.167	1.182	1.185	1.182	1.30
29)	T	Acetophenone	2.014	2.025	1.918	2.009	1.993	1.939	2.000	1.943	1.977	1.979	1.980	1.80
30)	T	m-Toluidine	1.758	1.833	1.806	1.896	1.902	1.915	1.973	1.905	1.930	1.958	1.888	3.61
31)	T	2-Chloroaniline	1.718	1.739	1.709	1.757	1.781	1.743	1.788	1.742	1.778	1.783	1.754	1.61
32)	I	IS3_1,4-Dichlorobenzene-d4	----------ISTD----------											
33)	T	n-Decane	1.589	1.558	1.530	1.540	1.542	1.522	1.477	1.474	1.472	1.434	1.514	3.15
34)	I	IS1_Naphthalene-d8	----------ISTD----------											
35)	T	Naphthalene	1.131	1.149	1.126	1.106	1.104	1.065	1.048	1.056	1.025	1.011	1.082	4.40
36)	T	Benzoic Acid					0.126	0.190	0.247	0.271	0.282	0.297	*Q	0.9999
37)	T	4-Chloroaniline	0.125	0.124	0.131	0.132	0.133	0.132	0.130	0.132	0.129	0.131	0.130	2.27
38)	T	Hexachlorobutadiene	0.161	0.173	0.160	0.160	0.165	0.156	0.156	0.162	0.161	0.165	0.162	3.08

Initial Calibration Summary
Form 6

Client	**: CHA Companies**	**Lab Number**	**: L1849060**
Project Name	**: 700 SMITH BLVD**	**Project Number**	**: 29852.1202.44000**
Instrument ID	**: SV112**	**Ical Ref**	**: ICAL15308**
Calibration dates	**: 12/05/18 20:17 12/06/18 09:51**		

Calibration Files
1.0 =AP9L1.D 2.0 =AP9L2.D 3.0 =AP9L3.D 5.0 =AP9L4.D 10 =AP9L5.D 20 =ADPL6.D 50 =AP9L7.D
100 =AP9L8.D 150 =AP9L9.D 200 =AP9L10.D

		Compound	1.0	2.0	3.0	5.0	10	20	50	100	150	200	Avg	%RSD	
39)	T	p-Chloro-m-cresol		0.274	0.274	0.283	0.293	0.308	0.303	0.312	0.310	0.317	0.297	5.57	
40)	T	2-Methylnaphthalene	0.713	0.731	0.708	0.704	0.721	0.709	0.690	0.694	0.682	0.678	0.703	2.41	
41)	T	1-Methylnaphthalene	0.246	0.254	0.235	0.241	0.246	0.238	0.232	0.236	0.233	0.234	0.240	2.95	
42)	T	Hexachlorocyclopentadiene				0.158	0.169	0.176	0.186	0.198	0.200	0.208	0.185	9.82	
43)	T	2,4,6-Trichlorophenol		0.160	0.162	0.168	0.178	0.189	0.197	0.200	0.202	0.206	0.185	9.74	
44)	T	2,4,5-Trichlorophenol			0.182	0.182	0.198	0.207	0.206	0.213	0.211	0.216	0.202	6.57	
45)	S	2-Fluorobiphenyl	0.754	0.770	0.742	0.730	0.745	0.734	0.720	0.718	0.698	0.701	0.731	3.10	
46)	T	2-Chloronaphthalene	0.629	0.646	0.636	0.614	0.639	0.638	0.629	0.631	0.619	0.614	0.629	1.72	
47)	T	2-Nitroaniline				0.172	0.191	0.210	0.219	0.226	0.226	0.231	0.211	10.35	
48)	T	1,4-Dinitrobenzene					0.076	0.087	0.094	0.098	0.100	0.103	0.093	10.69	
49)	T	1,3-Dinitrobenzene				0.078	0.094	0.105	0.106	0.110	0.109	0.109	0.102	11.46	
50)	T	Dimethyl phthalate	0.705	0.700	0.710	0.705	0.729	0.762	0.736	0.731	0.716	0.714	0.721	2.61	
51)	T	Acenaphthylene	0.951	0.981	0.981	0.989	1.041	1.058	1.030	1.019	0.983	0.971	1.000	3.43	
52)	T	2,6-Dinitrotoluene		0.119	0.125	0.134	0.147	0.160	0.157	0.160	0.161	0.164	0.147	11.60	
53)	T	1,2-Dinitrobenzene		0.054	0.055	0.059	0.064	0.069	0.069	0.069	0.069	0.069	0.064	10.08	
54)	I	IS2_Naphthalene-d8	----------ISTD----------												
55)	T	a-Terpineol	0.242	0.246	0.241	0.248	0.251	0.257	0.262	0.257	0.251	0.249	0.250	2.71	
56)	T	3-Chloroaniline	0.133	0.129	0.136	0.134	0.136	0.136	0.133	0.131	0.128	0.128	0.132	2.40	
57)	T	2,6-Dichlorophenol	0.208	0.227	0.229	0.246	0.252	0.257	0.266	0.266	0.268	0.270	0.249	8.50	
58)	T	1-chloro-2-nitrobenzene	0.118	0.120	0.119	0.125	0.126	0.127	0.134	0.134	0.137	0.139	0.128	6.02	
59)	T	Caprolactam			0.096	0.105	0.119	0.131	0.144	0.147	0.151	0.151	0.130	16.52	
60)	T	1,2,4,5-Tetrachlorobenzene	0.288	0.289	0.267	0.275	0.269	0.266	0.261	0.266	0.265	0.267	0.271	3.60	
61)	T	Biphenyl	0.813	0.822	0.761	0.808	0.771	0.758	0.764	0.742	0.739	0.728	0.771	4.27	
62)	I	IS1_Acenaphthene-d10	----------ISTD----------												
63)	T	3-Nitroaniline			0.321	0.346	0.372	0.390	0.395	0.406	0.405	0.415	0.381	8.59	
64)	T	Acenaphthene	1.231	1.242	1.192	1.200	1.198	1.167	1.136	1.154	1.124	1.118	1.176	3.69	
65)	T	2,4-Dinitrophenol				0.057	0.087	0.117	0.145	0.167	0.175	0.185	*Q	0.9998	
66)	T	Dibenzofuran	1.861	1.892	1.833	1.842	1.855	1.804	1.750	1.750	1.670	1.657	1.791	4.55	
67)	T	2,4-Dinitrotoluene		0.297	0.308	0.341	0.372	0.408	0.419	0.428	0.425	0.429	0.381	14.03	
68)	T	4-Nitrophenol				0.245	0.268	0.289	0.295	0.305	0.302	0.313	0.288	8.34	
69)	T	2,3,5,6-Tetrachlorophenol				0.261	0.289	0.307	0.316	0.329	0.330	0.340	0.310	8.87	
70)	T	2,3,4,6-Tetrachlorophenol			0.275	0.286	0.310	0.321	0.321	0.335	0.330	0.340	0.315	7.38	
71)	T	Diethyl phthalate	1.333	1.421	1.419	1.447	1.504	1.527	1.509	1.528	1.514	1.537	1.474	4.52	
72)	T	Fluorene	1.339	1.395	1.369	1.377	1.404	1.400	1.369	1.379	1.328	1.336	1.370	2.01	
73)	T	4-Chlorophenyl-phenylether	0.670	0.661	0.643	0.649	0.649	0.637	0.627	0.639	0.620	0.626	0.642	2.45	
74)	T	4-Nitroaniline			0.299	0.345	0.374	0.389	0.389	0.400	0.398	0.407	0.375	9.74	
75)	T	4,6-Dinitro-o-cresol				0.100	0.129	0.168	0.193	0.210	0.218	0.227	*Q	1.0000	
76)	T	NDPA/DPA	1.136	1.155	1.175	1.187	1.217	1.217	1.203	1.198	1.174	1.176	1.184	2.20	

Initial Calibration Summary
Form 6

Client	**: CHA Companies**	**Lab Number**	**: L1849060**
Project Name	**: 700 SMITH BLVD**	**Project Number**	**: 29852.1202.44000**
Instrument ID	**: SV112**	**Ical Ref**	**: ICAL15308**
Calibration dates	**: 12/05/18 20:17 12/06/18 09:51**		

Calibration Files
1.0 =AP9L1.D 2.0 =AP9L2.D 3.0 =AP9L3.D 5.0 =AP9L4.D 10 =AP9L5.D 20 =ADPL6.D 50 =AP9L7.D
100 =AP9L8.D 150 =AP9L9.D 200 =AP9L10.D

		Compound	1.0	2.0	3.0	5.0	10	20	50	100	150	200	Avg	%RSD	
77)	T	Azobenzene	1.272	1.381	1.345	1.407	1.471	1.488	1.439	1.453	1.401	1.411	1.407	4.53	
78)	S	2,4,6-Tribromophenol		0.130	0.146	0.142	0.157	0.170	0.177	0.187	0.191		0.163	13.73	
79)	T	4-Bromophenyl-phenylether	0.343	0.348	0.344	0.343	0.342	0.341	0.341	0.353	0.348	0.363	0.347	2.00	
80)	T	Hexachlorobenzene	0.392	0.370	0.379	0.371	0.384	0.383	0.374	0.388	0.387	0.405	0.383	2.73	
81)	T	Pentachlorophenol			0.123	0.141	0.178	0.214	0.232	0.246	0.251	0.265	*L	0.9981	
82)	I	IS2_Acenaphthene-d10	----------ISTD----------												
83)	T	Dichloran				0.090	0.105	0.121	0.144	0.156	0.167	0.167	*L	0.9976	
84)	T	Pentachloronitrobenzene			0.096	0.112	0.123	0.132	0.145	0.150	0.158	0.158	0.134	16.82	
85)	I	IS3_Acenaphthene-d10	----------ISTD----------												
86)	T	Atrazine			0.215	0.234	0.280	0.303	0.334	0.358	0.381	0.391	*L	0.9973	
87)	I	IS1_Phenanthrene-d10	----------ISTD----------												
88)	T	Phenanthrene	1.255	1.288	1.228	1.215	1.212	1.171	1.149	1.162	1.130	1.144	1.195	4.37	
89)	T	Anthracene	1.086	1.173	1.171	1.168	1.183	1.176	1.165	1.189	1.155	1.169	1.163	2.48	
90)	T	Carbazole	0.992	1.082	1.087	1.122	1.168	1.155	1.128	1.140	1.100	1.121	1.109	4.49	
91)	T	Di-n-butylphthalate	0.947	1.068	1.120	1.205	1.307	1.378	1.430	1.481	1.423	1.463	1.282	14.58	
92)	T	Fluoranthene	1.108	1.150	1.149	1.182	1.198	1.214	1.205	1.242	1.218	1.241	1.191	3.65	
93)	T	Benzidine			0.570	0.657	0.740	0.843	0.882	0.926	0.940	0.982	0.817	18.03	
94)	T	Pyrene	1.192	1.221	1.234	1.283	1.283	1.297	1.278	1.278	1.259	1.268	1.259	2.64	
95)	S	4-Terphenyl-d14	0.817	0.806	0.815	0.851	0.846	0.871	0.876	0.899	0.879	0.910	0.857	4.21	
96)	T	Butyl benzyl phthalate				0.442	0.502	0.583	0.635	0.669	0.670	0.696	0.600	15.95	
97)	I	IS2_Phenanthrene-d10	----------ISTD----------												
98)	T	Diphenamid	0.342	0.356	0.379	0.411	0.458	0.487	0.526	0.540	0.541	0.536	0.458	17.45	
99)	I	IS3_Phenanthrene-d10	----------ISTD----------												
100)	T	n-Octadecane	0.329	0.356	0.367	0.424	0.476	0.504	0.509	0.511	0.498	0.481	0.445	15.85	
101)	T	Parathion				0.045	0.060	0.077	0.113	0.139	0.151	0.163	*Q	0.9989	
102)	T	3,3'-Dimethylbenzidine			0.240	0.299	0.440	0.563	0.718	0.786	0.851	0.886	*Q	0.9992	
103)	I	IS1_Chrysene-d12	----------ISTD----------												
104)	T	Benzo[a]anthracene	1.213	1.243	1.239	1.253	1.297	1.274	1.289	1.332	1.324	1.346	1.281	3.45	
105)	T	3,3'-Dichlorobenzidine			0.361	0.393	0.455	0.466	0.490	0.513	0.524	0.535	0.467	13.44	
106)	T	Chrysene	1.251	1.303	1.258	1.236	1.257	1.210	1.191	1.230	1.210	1.237	1.238	2.55	
107)	T	bis(2-Ethylhexyl)phthalate			0.588	0.684	0.836	0.915	1.014	1.060	1.061	1.085	*L	0.9995	
108)	T	Di-n-octylphthalate			0.712	0.906	1.214	1.443	1.704	1.840	1.846	1.895	*L	0.9985	
109)	T	Benzo(b)fluoranthene	0.892	0.971	1.014	1.079	1.172	1.175	1.184	1.278	1.275	1.354	1.139	12.98	
110)	T	Benzo(k)fluoranthene	0.950	1.102	1.089	1.162	1.207	1.206	1.215	1.279	1.279	1.272	1.176	8.88	
111)	T	Benzo(a)pyrene		0.860	0.907	0.995	1.089	1.133	1.170	1.259	1.271	1.306	1.110	14.54	
112)	I	IS1_Perylene-d12	----------ISTD----------												
113)	T	Indeno(1,2,3-cd)pyrene		0.776	0.835	0.953	1.014	1.099	1.124	1.265	1.291	1.350	1.078	18.75	
114)	T	Dibenzo[a,h]anthracene	0.815	0.933	0.989	1.031	1.109	1.126	1.147	1.240	1.239	1.275	1.090	13.61	

Initial Calibration Summary
Form 6

Client	**: CHA Companies**	**Lab Number**	**: L1849060**
Project Name	**: 700 SMITH BLVD**	**Project Number**	**: 29852.1202.44000**
Instrument ID	**: SV112**	**Ical Ref**	**: ICAL15308**
Calibration dates	**: 12/05/18 20:17 12/06/18 09:51**		

Calibration Files

1.0 =AP9L1.D 2.0 =AP9L2.D 3.0 =AP9L3.D 5.0 =AP9L4.D 10 =AP9L5.D 20 =ADPL6.D 50 =AP9L7.D

100 =AP9L8.D 150 =AP9L9.D 200 =AP9L10.D

	Compound	1.0	2.0	3.0	5.0	10	20	50	100	150	200	Avg	%RSD
115) T	Benzo(g,h,i)perylene	0.861	0.962	0.987	1.039	1.107	1.129	1.120	1.227	1.218	1.258	1.091	11.77

Response Factor Report SV109

Method Path : I:\8270\SV109\181003nical\
Method File : FS1801003nSV109.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Thu Oct 04 17:19:32 2018
Response Via : Initial Calibration

Calibration Files
1.0 =ADPL1.D 2.0 =ADPL2.D 3.0 =ADPL3.D 5.0 =ADPL4.D 10 =ADPL5.D 20 =ADPL6.D 50 =ADPL7.D
100 =ADPL8.D 150 =ADPL9.D 200 =ADPL10.D

		Compound	1.0	2.0	3.0	5.0	10	20	50	100	150	200	Avg	%RSD
1)	I	IS1_1,4-Dichlorobenzene-d4	----------ISTD----------											
2)	t	N-Nitrosodimethylamine	0.823	0.835	0.820	0.819	0.824	0.840	0.842	0.841	0.834	0.845	0.832	1.19
3)	t	Pyridine	1.406	1.417	1.348	1.420	1.435	1.459	1.460	1.459	1.451	1.486	1.434	2.70
4)	S	2-Fluorophenol	1.175	1.178	1.160	1.193	1.225	1.256	1.278	1.289	1.284	1.321	1.236	4.62
5)	T	Aniline	2.072	2.053	2.029	2.027	2.016	2.084	2.076	2.081	2.083	2.111	2.063	1.49
6)	t	2-Chlorophenol	1.385	1.422	1.373	1.365	1.392	1.433	1.461	1.457	1.476	1.502	1.426	3.29
7)	S	Phenol-d6	1.504	1.438	1.458	1.501	1.492	1.553	1.568	1.595	1.609	1.645	1.536	4.44
8)	T	Phenol	1.634	1.572	1.611	1.596	1.602	1.678	1.689	1.715	1.708	1.744	1.655	3.58
9)	T	bis(2-Chloroethyl)ether	1.315	1.331	1.332	1.344	1.298	1.325	1.338	1.348	1.350	1.376	1.336	1.60
10)	T	1,3-Dichlorobenzene	1.652	1.604	1.563	1.600	1.577	1.604	1.612	1.603	1.597	1.632	1.604	1.56
11)	T	1,4-Dichlorobenzene	1.728	1.724	1.610	1.640	1.622	1.626	1.615	1.637	1.630	1.660	1.649	2.60
12)	T	1,2-Dichlorobenzene	1.699	1.579	1.587	1.586	1.553	1.596	1.574	1.579	1.591	1.612	1.595	2.47
13)	t	Benzyl alcohol	1.021	1.027	1.016	1.073	1.062	1.119	1.168	1.191	1.197	1.206	1.108	7.00
14)	T	bis(2-chloroisopropyl)ether	2.356	2.288	2.228	2.285	2.179	2.257	2.246	2.237	2.217	2.180	2.247	2.37
15)	T	2-Methylphenol	1.256	1.161	1.163	1.190	1.232	1.264	1.265	1.304	1.319	1.326	1.248	4.86
16)	T	Hexachloroethane	0.691	0.652	0.668	0.657	0.647	0.648	0.654	0.658	0.660	0.673	0.661	2.02
17)	T	n-Nitrosodi-n-propylamine	0.940	0.935	0.924	0.926	0.945	1.003	0.989	1.007	1.006	1.028	0.970	4.11
18)	T	3-Methylphenol/4-Methylphenol	1.223	1.222	1.263	1.273	1.239	1.317	1.337	1.365	1.370	1.398	1.301	5.01
19)	S	Nitrobenzene-d5	1.388	1.396	1.368	1.422	1.421	1.459	1.478	1.504	1.495	1.524	1.445	3.73
20)	T	Nitrobenzene	1.404	1.452	1.431	1.458	1.450	1.481	1.506	1.520	1.513	1.543	1.476	2.99
21)	T	Isophorone	2.577	2.633	2.570	2.569	2.564	2.673	2.692	2.710	2.670	2.742	2.640	2.52
22)	T	2-Nitrophenol	0.604	0.613	0.596	0.631	0.677	0.722	0.758	0.775	0.778	0.793	0.695	11.47
23)	T	2,4-Dimethylphenol	1.083	1.135	1.172	1.213	1.218	1.264	1.326	1.372	1.403	1.437	1.262	9.44
24)	T	bis(2-Chloroethoxy)methane	1.664	1.672	1.654	1.643	1.651	1.722	1.739	1.761	1.757	1.800	1.706	3.29
25)	T	2,4-Dichlorophenol	1.111	1.076	1.106	1.113	1.144	1.192	1.228	1.260	1.254	1.295	1.178	6.61
26)	T	1,2,4-Trichlorobenzene	1.418	1.371	1.346	1.345	1.318	1.361	1.360	1.398	1.383	1.434	1.373	2.58
27)	I	IS2_1,4-Dichlorobenzene-d4	----------ISTD----------											
28)	T	Benzaldehyde		1.044	1.047	1.101	1.076	1.113	1.162	1.148	1.139	1.178	1.112	4.39
29)	T	Acetophenone		1.701	1.787	1.823	1.815	1.911	2.002	2.018	1.992	2.066	1.902	6.60
30)	T	m-Toluidine		1.745	1.760	1.822	1.792	1.872	1.950	1.960	1.932	1.991	1.869	4.97
31)	T	2-Chloroaniline		1.653	1.628	1.685	1.690	1.754	1.840	1.842	1.838	1.889	1.758	5.51
32)	I	IS3_1,4-Dichlorobenzene-d4	----------ISTD----------											
33)	T	n-Decane	1.493	1.480	1.593	1.563	1.583	1.546	1.604	1.645	1.671	1.685	1.586	4.34
34)	I	IS1_Naphthalene-d8	----------ISTD----------											
35)	T	Naphthalene	1.077	1.056	1.025	1.039	1.015	1.035	1.041	1.041	1.034	1.065	1.043	1.78
36)	T	Benzoic Acid					0.165	0.209	0.250	0.272	0.277	0.288	*L	0.9993
37)	T	4-Chloroaniline	0.116	0.124	0.124	0.125	0.130	0.135	0.137	0.138	0.139	0.142	0.131	6.55
38)	T	Hexachlorobutadiene	0.196	0.191	0.189	0.191	0.191	0.193	0.195	0.192	0.198	0.206	0.194	2.53
39)	T	p-Chloro-m-cresol	0.230	0.255	0.258	0.266	0.267	0.290	0.299	0.304	0.307	0.321	0.280	10.29
40)	T	2-Methylnaphthalene	0.694	0.670	0.668	0.672	0.670	0.696	0.702	0.708	0.716	0.741	0.694	3.50
41)	T	1-Methylnaphthalene	0.243	0.244	0.243	0.233	0.240	0.241	0.246	0.248	0.251	0.261	0.245	3.07
42)	T	Hexachlorocyclopentadiene				0.195	0.203	0.219	0.233	0.245	0.254	0.263	0.230	11.20
43)	T	2,4,6-Trichlorophenol	0.170	0.176	0.176	0.185	0.196	0.210	0.217	0.223	0.225	0.240	0.202	12.23
44)	T	2,4,5-Trichlorophenol	0.179	0.195	0.193	0.211	0.211	0.215	0.229	0.236	0.243	0.255	0.217	11.05
45)	S	2-Fluorobiphenyl	0.748	0.766	0.761	0.761	0.747	0.761	0.780	0.781	0.783	0.813	0.770	2.58

Response Factor Report SV109

Method Path : I:\8270\SV109\181003nical\
Method File : FS1801003nSV109.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Thu Oct 04 17:19:32 2018
Response Via : Initial Calibration

Calibration Files
1.0 =ADPL1.D 2.0 =ADPL2.D 3.0 =ADPL3.D 5.0 =ADPL4.D 10 =ADPL5.D 20 =ADPL6.D 50 =ADPL7.D
100 =ADPL8.D 150 =ADPL9.D 200 =ADPL10.D

		Compound	1.0	2.0	3.0	5.0	10	20	50	100	150	200	Avg	%RSD
46)	T	2-Chloronaphthalene	0.631	0.632	0.633	0.626	0.640	0.648	0.668	0.675	0.670	0.700	0.652	3.77
47)	T	2-Nitroaniline		0.167	0.173	0.182	0.195	0.214	0.223	0.230	0.229	0.242	0.206	13.31
48)	T	1,4-Dinitrobenzene				0.073	0.083	0.091	0.099	0.104	0.103	0.110	0.095	13.81
49)	T	1,3-Dinitrobenzene				0.091	0.100	0.105	0.116	0.120	0.118	0.126	0.111	11.26
50)	T	Dimethyl phthalate	0.743	0.743	0.733	0.741	0.740	0.771	0.799	0.815	0.797	0.840	0.772	4.91
51)	T	Acenaphthylene	1.031	1.010	1.013	1.016	1.017	1.058	1.076	1.084	1.068	1.127	1.050	3.70
52)	T	2,6-Dinitrotoluene	0.135	0.145	0.144	0.150	0.160	0.170	0.173	0.174	0.171	0.184	0.161	9.99
53)	T	1,2-Dinitrobenzene				0.067	0.069	0.068	0.075	0.075	0.073	0.077	0.072	5.39
54)	I	IS2_Naphthalene-d8	----------ISTD----------											
55)	T	a-Terpineol		0.287	0.293	0.290	0.294	0.302	0.307	0.311	0.306	0.311	0.300	3.05
56)	T	3-Chloroaniline		0.133	0.140	0.149	0.138	0.143	0.148	0.151	0.149	0.152	0.145	4.54
57)	T	2,6-Dichlorophenol		0.234	0.238	0.252	0.262	0.275	0.282	0.287	0.288	0.298	0.268	8.57
58)	T	1-chloro-2-nitrobenzene		0.114	0.122	0.128	0.131	0.135	0.141	0.143	0.143	0.150	0.134	8.51
59)	T	Caprolactam		0.129	0.142	0.156	0.158	0.169	0.174	0.177	0.175	0.182	0.162	10.98
60)	T	1,2,4,5-Tetrachlorobenzene		0.316	0.300	0.310	0.311	0.315	0.320	0.323	0.327	0.335	0.317	3.24
61)	T	Biphenyl		0.760	0.760	0.779	0.782	0.807	0.810	0.820	0.806	0.834	0.795	3.30
62)	I	IS1_Acenaphthene-d10	----------ISTD----------											
63)	T	3-Nitroaniline	0.318	0.324	0.334	0.345	0.362	0.386	0.397	0.409	0.401	0.417	0.369	10.05
64)	T	Acenaphthene	1.284	1.264	1.186	1.177	1.199	1.203	1.201	1.230	1.237	1.253	1.223	2.93
65)	T	2,4-Dinitrophenol				0.098	0.122	0.150	0.180	0.200	0.203	0.208	*L	0.9984
66)	T	Dibenzofuran	1.988	1.947	1.880	1.863	1.904	1.902	1.907	1.933	1.912	1.950	1.919	1.90
67)	T	2,4-Dinitrotoluene		0.350	0.352	0.394	0.417	0.446	0.472	0.479	0.473	0.490	0.430	12.68
68)	T	4-Nitrophenol				0.249	0.279	0.295	0.322	0.335	0.331	0.339	0.307	11.08
69)	T	2,3,5,6-Tetrachlorophenol	0.312	0.313	0.319	0.348	0.363	0.377	0.403	0.415	0.421	0.440	0.371	12.82
70)	T	2,3,4,6-Tetrachlorophenol	0.360	0.357	0.366	0.366	0.392	0.394	0.404	0.428	0.424	0.442	0.393	7.80
71)	T	Diethyl phthalate	1.584	1.593	1.468	1.538	1.581	1.619	1.665	1.671	1.656	1.711	1.609	4.44
72)	T	Fluorene	1.526	1.438	1.415	1.426	1.460	1.467	1.498	1.517	1.518	1.560	1.483	3.27
73)	T	4-Chlorophenyl-phenylether	0.680	0.723	0.681	0.691	0.712	0.712	0.723	0.742	0.739	0.765	0.717	3.85
74)	T	4-Nitroaniline		0.320	0.294	0.345	0.354	0.377	0.403	0.402	0.391	0.408	0.366	11.04
75)	T	4,6-Dinitro-o-cresol				0.154	0.186	0.218	0.243	0.265	0.259	0.273	*L	0.9966
76)	T	NDPA/DPA	1.255	1.217	1.172	1.208	1.243	1.248	1.288	1.308	1.298	1.332	1.257	3.97
77)	T	Azobenzene	1.495	1.493	1.436	1.470	1.529	1.553	1.574	1.603	1.577	1.585	1.532	3.65
78)	S	2,4,6-Tribromophenol		0.215	0.216	0.230	0.250	0.263	0.282	0.298	0.305	0.322	0.265	14.96
79)	T	4-Bromophenyl-phenylether	0.433	0.443	0.406	0.412	0.423	0.422	0.435	0.458	0.460	0.484	0.438	5.49
80)	T	Hexachlorobenzene	0.551	0.527	0.499	0.516	0.526	0.536	0.539	0.568	0.565	0.597	0.542	5.28
81)	T	Pentachlorophenol			0.195	0.223	0.243	0.286	0.316	0.339	0.338	0.364	*L	0.9974
82)	I	IS2_Acenaphthene-d10	----------ISTD----------											
83)	T	Dichloran				0.141	0.147	0.164	0.183	0.196	0.202	0.211	0.178	15.43
84)	T	Pentachloronitrobenzene				0.165	0.175	0.184	0.190	0.205	0.209	0.218	0.192	9.94
85)	I	IS3_Acenaphthene-d10	----------ISTD----------											
86)	T	Atrazine	0.261	0.274	0.327	0.328	0.339	0.352	0.385	0.396	0.405	0.418	0.348	15.35
87)	I	IS1_Phenanthrene-d10	----------ISTD----------											
88)	T	Phenanthrene	1.186	1.132	1.114	1.099	1.082	1.129	1.126	1.129	1.140	1.166	1.130	2.64
89)	T	Anthracene	1.072	1.088	1.027	1.071	1.099	1.136	1.153	1.171	1.192	1.207	1.122	5.26
90)	T	Carbazole	1.001	0.992	0.975	1.011	1.011	1.062	1.080	1.083	1.095	1.120	1.043	4.85

Response Factor Report SV109

Method Path : I:\8270\SV109\181003nical\
Method File : FS1801003nSV109.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Thu Oct 04 17:19:32 2018
Response Via : Initial Calibration

Calibration Files
1.0 =ADPL1.D 2.0 =ADPL2.D 3.0 =ADPL3.D 5.0 =ADPL4.D 10 =ADPL5.D 20 =ADPL6.D 50 =ADPL7.D
100 =ADPL8.D 150 =ADPL9.D 200 =ADPL10.D

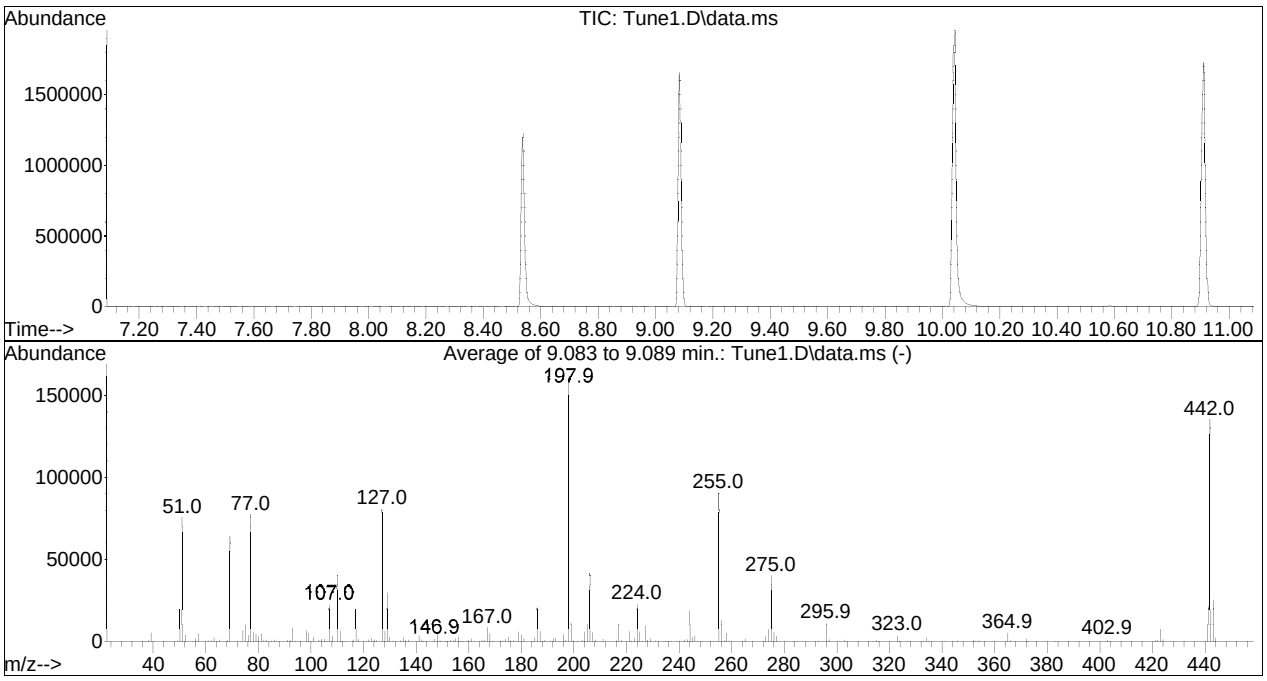
		Compound	1.0	2.0	3.0	5.0	10	20	50	100	150	200	Avg	%RSD
91)	T	Di-n-butylphthalate	1.158	1.189	1.174	1.199	1.236	1.350	1.400	1.430	1.428	1.460	1.303	9.37
92)	T	Fluoranthene	1.209	1.140	1.123	1.145	1.128	1.206	1.223	1.245	1.248	1.290	1.196	4.88
93)	T	Benzidine	0.617	0.639	0.655	0.671	0.720	0.795	0.797	0.842	0.867	0.901	0.750	13.72
94)	T	Pyrene	1.206	1.214	1.207	1.233	1.214	1.278	1.291	1.294	1.294	1.337	1.257	3.76
95)	S	4-Terphenyl-d14	0.892	0.857	0.872	0.885	0.888	0.951	0.982	1.005	1.012	1.054	0.940	7.41
96)	T	Butyl benzyl phthalate		0.454	0.463	0.495	0.525	0.578	0.619	0.641	0.643	0.678	0.566	14.90
97)	I	IS2_Phenanthrene-d10	----------ISTD----------											
98)	T	Diphenamid		0.461	0.445	0.460	0.482	0.492	0.513	0.536	0.548	0.565	0.500	8.50
99)	I	IS3_Phenanthrene-d10	----------ISTD----------											
100)	T	n-Octadecane	0.415	0.416	0.462	0.496	0.499	0.519	0.528	0.551	0.548	0.542	0.498	10.29
101)	T	Parathion				0.096	0.104	0.120	0.139	0.151	0.158	0.163	0.133	19.97
102)	T	3,3'-Dimethylbenzidine		0.443	0.519	0.606	0.619	0.676	0.753	0.775	0.812	0.816	0.669	19.80
103)	I	IS1_Chrysene-d12	----------ISTD----------											
104)	T	Benzo[a]anthracene	1.434	1.274	1.227	1.199	1.199	1.215	1.211	1.177	1.167	1.169	1.227	6.46
105)	T	3,3'-Dichlorobenzidine	0.440	0.443	0.435	0.469	0.487	0.500	0.514	0.509	0.508	0.512	0.482	6.67
106)	T	Chrysene	1.349	1.267	1.156	1.223	1.173	1.181	1.135	1.099	1.095	1.092	1.177	7.06
107)	T	bis(2-Ethylhexyl)phthalate	0.669	0.696	0.704	0.758	0.812	0.856	0.888	0.872	0.862	0.885	0.800	10.70
108)	T	Di-n-octylphthalate		1.005	1.074	1.155	1.294	1.403	1.484	1.485	1.471	1.508	1.320	14.84
109)	T	Benzo(b)fluoranthene	1.280	1.083	1.004	1.065	1.064	1.106	1.138	1.095	1.111	1.134	1.108	6.49
110)	T	Benzo(k)fluoranthene	1.405	1.322	1.277	1.199	1.213	1.254	1.190	1.153	1.137	1.144	1.229	7.02
111)	T	Benzo(a)pyrene	1.281	1.093	1.072	1.088	1.085	1.114	1.137	1.099	1.102	1.105	1.118	5.39
112)	I	IS1_Perylene-d12	----------ISTD----------											
113)	T	Indeno(1,2,3-cd)pyrene	0.948	0.912	0.899	0.926	0.946	1.013	1.085	1.106	1.140	1.210	1.019	10.73
114)	T	Dibenzo[a,h]anthracene	0.988	0.966	0.933	0.973	0.993	1.050	1.143	1.164	1.195	1.311	1.072	11.63
115)	T	Benzo(g,h,i)perylene	1.173	1.097	1.046	1.070	1.065	1.121	1.169	1.173	1.201	1.281	1.140	6.43

(#) = Out of Range

Data Path : I:\8270\SV109\181003nical\
Data File : Tune1.D
Acq On : 3 Oct 2018 9:18 pm
Operator : sv109:cb
Sample : Tune1
Misc : WG1164344,,
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Thu Oct 04 16:06:44 2018



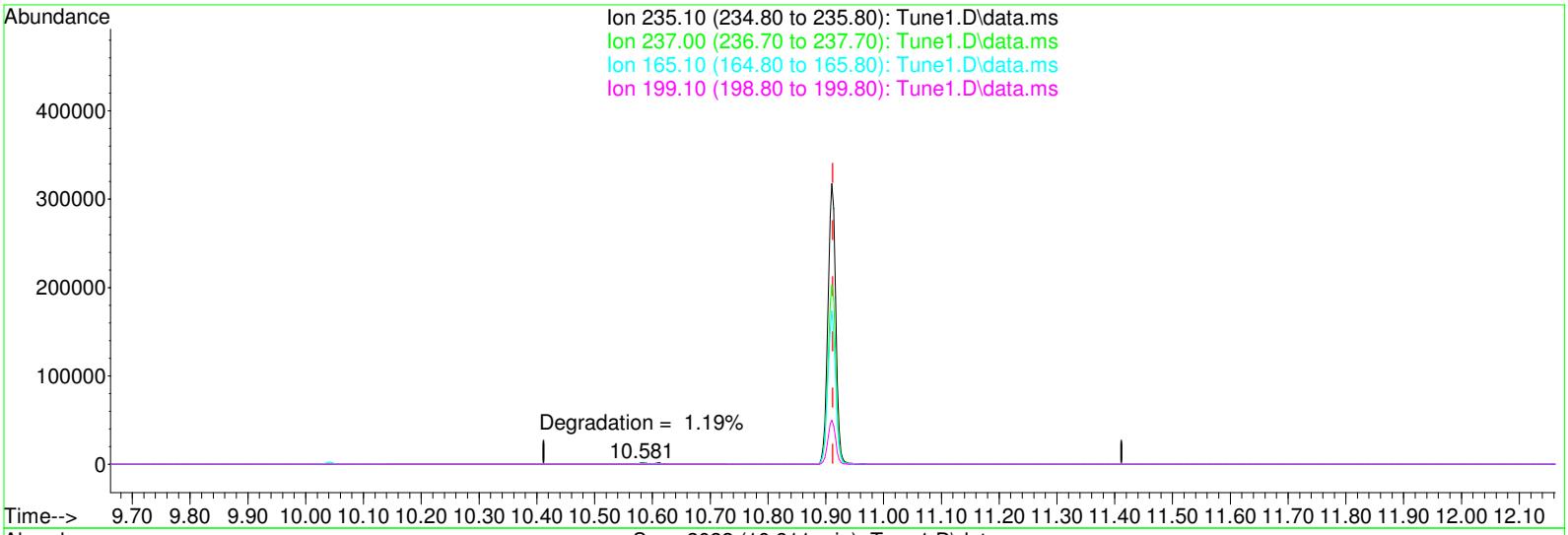
Spectrum Information: Average of 9.083 to 9.089 min.

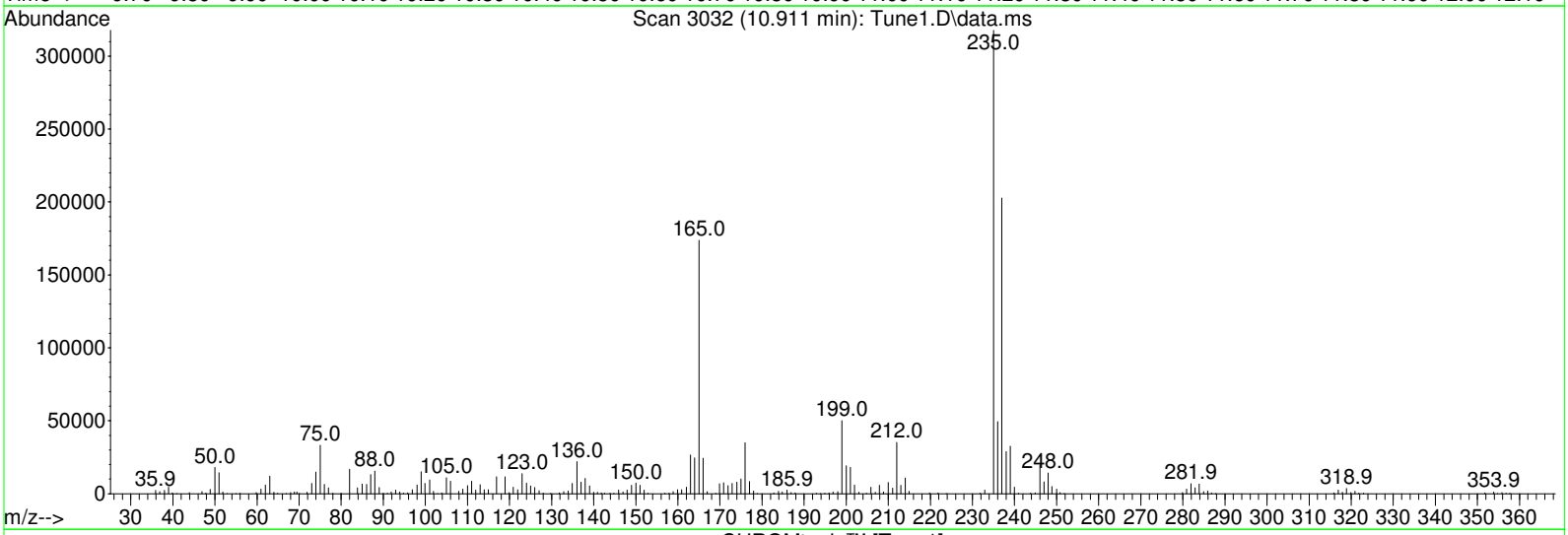
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	46.8	75232	PASS
68	69	0.00	2	1.7	1066	PASS
70	69	0.00	2	0.7	418	PASS
127	198	10	80	50.1	80635	PASS
197	198	0.00	2	0.7	1153	PASS
198	198	100	100	100.0	160832	PASS
199	198	5	9	7.1	11364	PASS
275	198	10	60	24.7	39763	PASS
365	198	1	100	3.3	5234	PASS
441	442	0.01	24	16.2	21853	PASS
442	198	50	100	84.1	135288	PASS
443	442	15	24	18.8	25475	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV109\181003nical\
Data File : Tune1.D
Acq On : 3 Oct 2018 9:18 pm
Operator : sv109:
Sample : Tune1
Misc : SV109 181003nical
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Oct 03 21:39:05 2018
Quant Method : I:\8270\SV109\181003nical\dftppsv109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Oct 02 23:11:56 2018
Response via : Initial Calibration





CHROMtools™ [Tune1]

(6) ddt (T)

10.911min (-0.001) 49.45

response 301418

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	62.30	64.18
165.10	48.60	53.79

Duplicate Retention Times

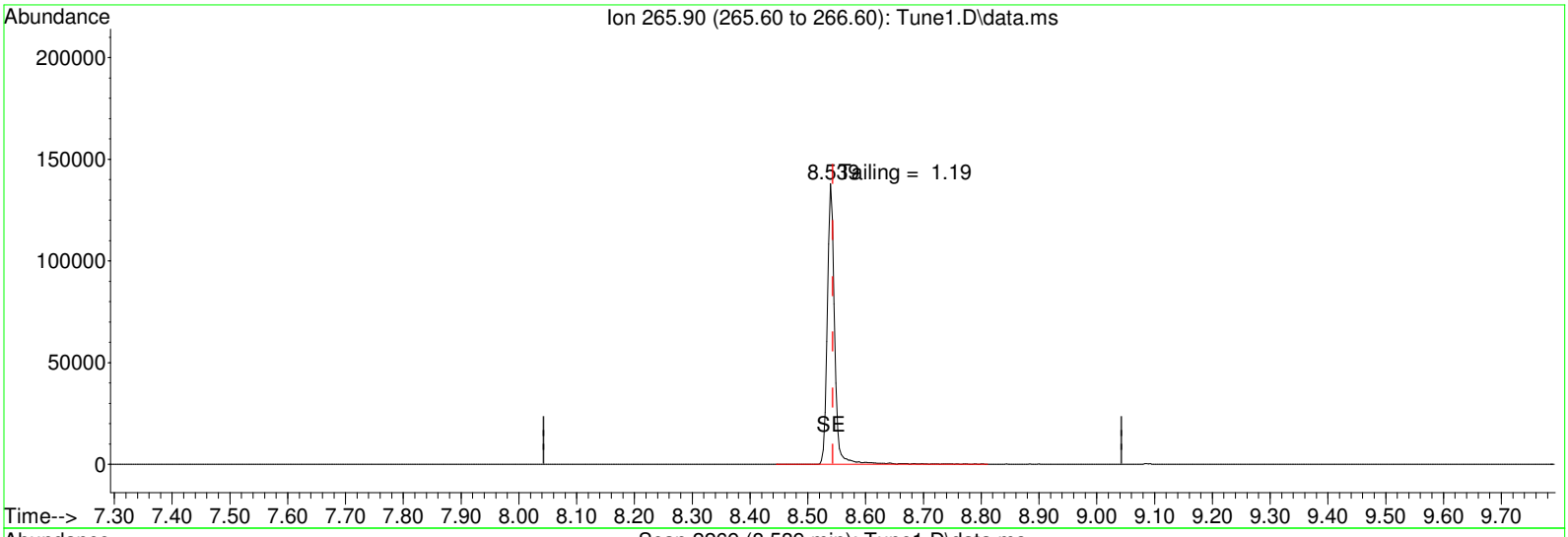
(4) DDE 246.00

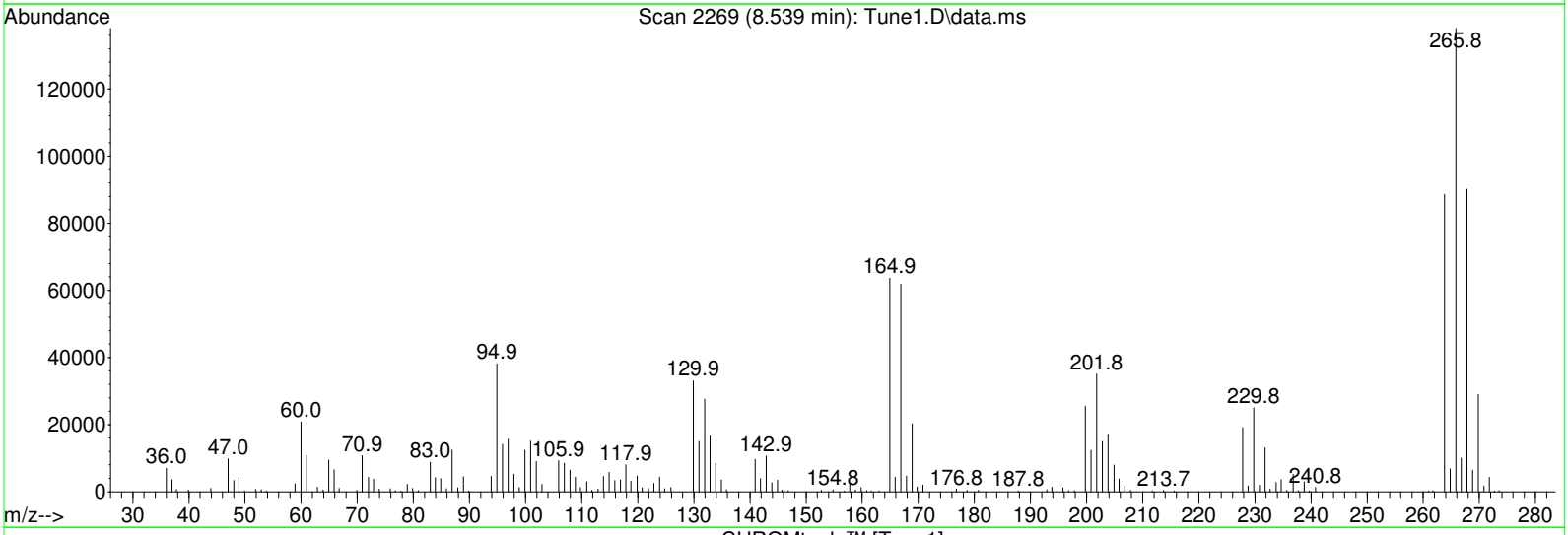
(5) DDD 235.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV109\181003nical\
Data File : Tune1.D
Acq On : 3 Oct 2018 9:18 pm
Operator : sv109:
Sample : Tune1
Misc : SV109 181003nical
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Oct 03 21:39:05 2018
Quant Method : I:\8270\SV109\181003nical\dftppsv109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Oct 02 23:11:56 2018
Response via : Initial Calibration





CHROMtools™ [Tune1]

(1) pentachlorophenol (T)

8.539min (-0.004) 56.19

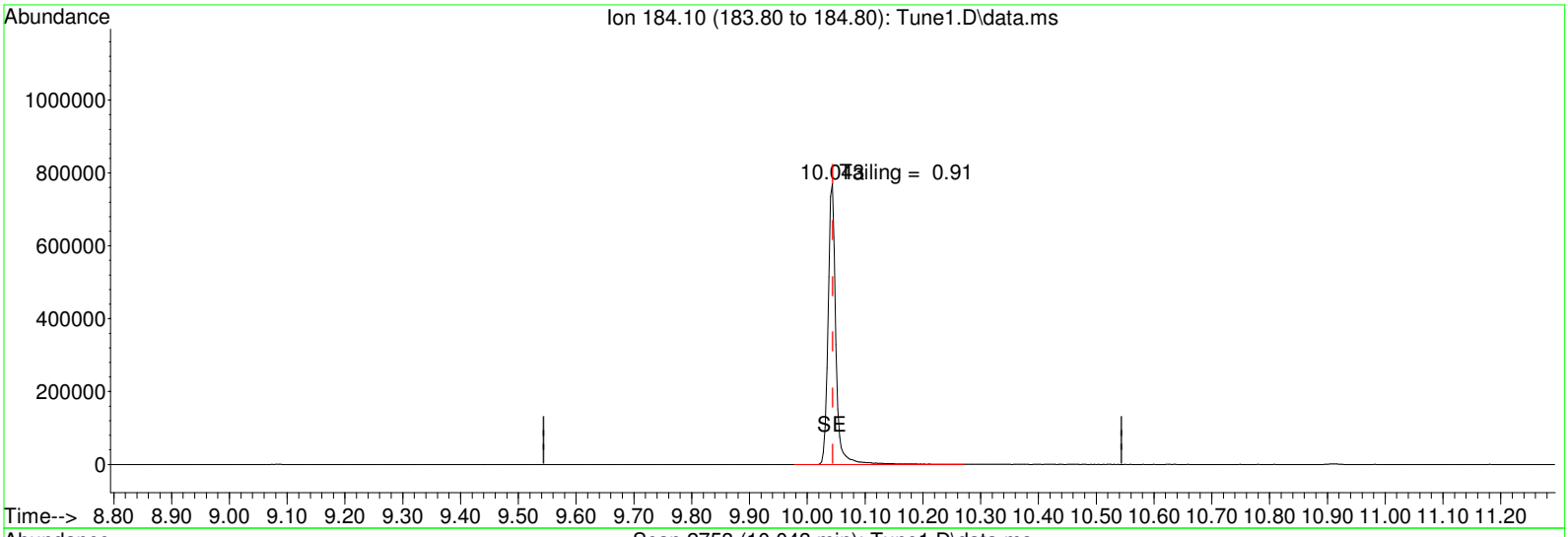
response 118010

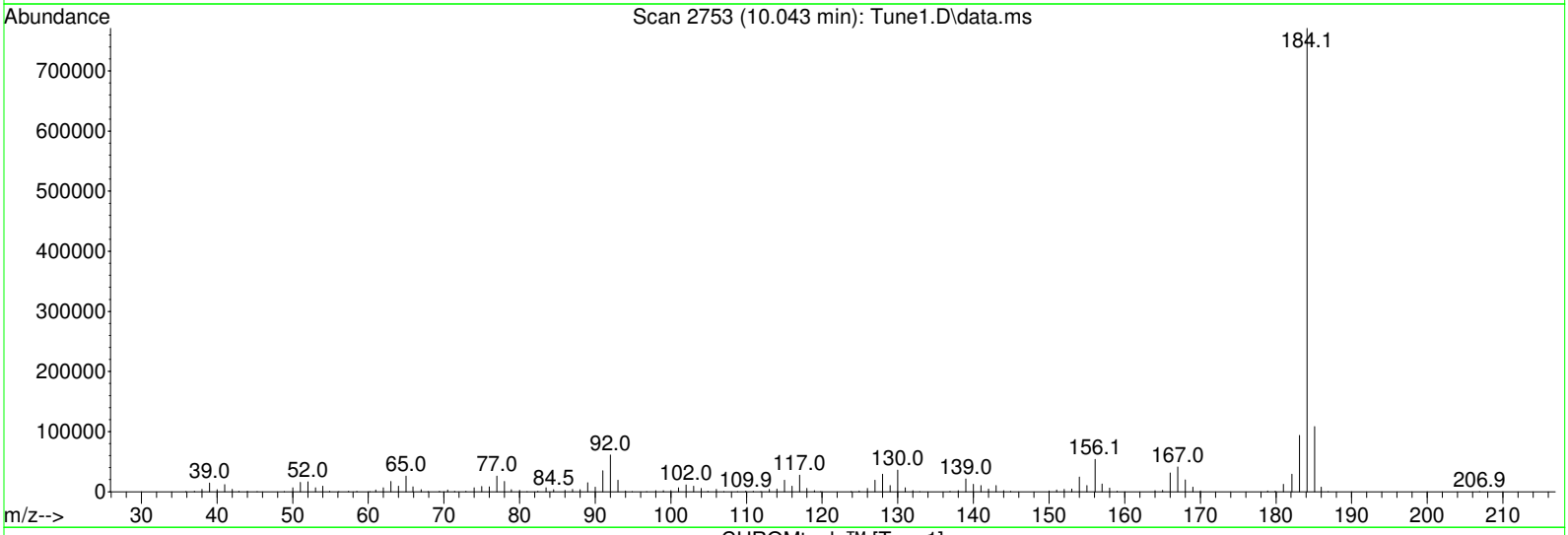
Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV109\181003nical\
Data File : Tune1.D
Acq On : 3 Oct 2018 9:18 pm
Operator : sv109:
Sample : Tune1
Misc : SV109 181003nical
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Oct 03 21:39:05 2018
Quant Method : I:\8270\SV109\181003nical\dftppsv109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Oct 02 23:11:56 2018
Response via : Initial Calibration





CHROMtools™ [Tune1]

(3) benzidine (T)

10.043min (-0.001) 70.27

response 715332

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : ABNL10.D
Acq On : 3 Oct 2018 9:43 pm
Operator : sv109:cb
Sample : IL1,32,,ABNL200 Lot# 7573
Misc : WG1164344,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 04 09:03:08 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 08:57:06 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\181003nical\ABNL7.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.334	152	180111	40.000	ug/ml	0.00
Standard Area 1 = 177393			Recovery = 101.53%			
34) IS1_Naphthalene-d8	5.580	136	739852	40.000	ug/ml	0.00
Standard Area 1 = 728713			Recovery = 101.53%			
62) IS1_Acenaphthene-d10	7.283	164	382906	40.000	ug/ml	0.00
Standard Area 1 = 367597			Recovery = 104.16%			
87) IS1_Phenanthrene-d10	8.707	188	755040	40.000	ug/ml	0.00
Standard Area 1 = 730814			Recovery = 103.31%			
103) IS1_Chrysene-d12	11.417	240	850328	40.000	ug/ml	0.00
Standard Area 1 = 764672			Recovery = 111.20%			
112) IS1_Perylene-d12	13.388	264	733081	40.000	ug/ml	0.00
Standard Area 1 = 738756			Recovery = 99.23%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.035	112	1190015	206.781	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 130		Recovery = 413.56%#			
7) Phenol-d6	4.039	99	1481016	209.785	ug/ml	0.01
Spiked Amount 50.000	Range 30 - 130		Recovery = 419.57%#			
19) Nitrobenzene-d5	4.893	82	1372055	206.234	ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery = 824.94%#			
45) 2-Fluorobiphenyl	6.659	172	3008470	208.629	ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery = 834.52%#			
78) 2,4,6-Tribromophenol	8.048	330	616299	228.348	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 130		Recovery = 456.70%#			
95) 4-Terphenyl-d14	10.292	244	3978888	214.698	ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery = 858.79%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	1.624	74	761024	200.684	ug/ml#	93
3) Pyridine	1.652	79	1338475	203.601	ug/ml	92
5) Aniline	4.020	93	1901421	203.434	ug/ml#	64
6) 2-Chlorophenol	4.132	128	1352204	205.527	ug/ml	99
8) Phenol	4.054	94	1570896	206.576	ug/ml#	59
9) Bis(2-chloroethyl)ether	4.113	93	1239511	205.800	ug/ml	99
10) 1,3-Dichlorobenzene	4.278	146	1470118	202.478	ug/ml	99
11) 1,4-Dichlorobenzene	4.352	146	1494473	205.509	ug/ml	99
12) 1,2-Dichlorobenzene	4.499	146	1451672	204.815	ug/ml	99
13) Benzyl alcohol	4.508	79	1086315	206.615	ug/ml	98
14) Bis(2-chloroisopropyl)...	4.651	45	1962933	194.130	ug/ml#	89

Data Path : I:\8270\SV109\181003nical\
Data File : ABNL10.D
Acq On : 3 Oct 2018 9:43 pm
Operator : sv109:cb
Sample : IL1,32,,ABNL200 Lot# 7573
Misc : WG1164344,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 04 09:03:08 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 08:57:06 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\181003nical\ABNL7.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	4.642	108	1193832	209.566	ug/ml	97
16) Hexachloroethane	4.828	117	605792	205.835	ug/ml	98
17) n-Nitrosodi-n-propylamine	4.788	70	926199	207.965	ug/ml	98
18) 3-Methylphenol/4-Methy...	4.806	108	1259191	209.167	ug/ml	97
20) Nitrobenzene	4.912	77	1389876	204.932	ug/ml	99
21) Isophorone	5.164	82	2469449	203.709	ug/ml	99
22) 2-Nitrophenol	5.223	139	714567	209.400	ug/ml	96
23) 2,4-Dimethylphenol	5.316	107	1294193	216.765	ug/ml	96
24) Bis(2-chloroethoxy)met...	5.403	93	1620981	207.007	ug/ml#	96
25) 2,4-Dichlorophenol	5.471	162	1166133	210.858	ug/ml	100
26) 1,2,4-Trichlorobenzene	5.540	180	1291044	210.829	ug/ml	99
35) Naphthalene	5.605	128	3939296	204.649	ug/ml	100
36) Benzoic Acid	5.515	105	1067104	230.889	ug/ml#	50
37) 4-Chloroaniline	5.683	65	527043	208.159	ug/ml	93
38) Hexachlorobutadiene	5.751	225	761521	210.970	ug/ml	99
39) p-Chloro-m-cresol	6.186	107	1187451	214.727	ug/ml	99
40) 2-Methylnaphthalene	6.283	142	2740859	211.143	ug/ml	98
41) 1-Methylnaphthalene	6.376	115	965696	212.232	ug/ml	86
42) Hexachlorocyclopentadiene	6.450	237	972802	225.769	ug/ml	99
43) 2,4,6-Trichlorophenol	6.575	196	887704	220.736	ug/ml	99
44) 2,4,5-Trichlorophenol	6.603	196	941876	222.300	ug/ml	100
46) 2-Chloronaphthalene	6.749	162	2589983	209.733	ug/ml	98
47) 2-Nitroaniline	6.870	138	894377	216.482	ug/ml	99
48) 1,4-Dinitrobenzene	7.010	168	405352	221.402	ug/ml	97
49) 1,3-Dinitrobenzene	7.084	168	466293	216.714	ug/ml	95
50) Dimethyl phthalate	7.088	163	3107576	210.278	ug/ml	99
51) Acenaphthylene	7.144	152	4167498	209.384	ug/ml	99
52) 2,6-Dinitrotoluene	7.125	165	679041	212.796	ug/ml	92
53) 1,2-Dinitrobenzene	7.168	168	285950M4	207.198	ug/ml	
63) 3-Nitroaniline	7.277	138	797420	209.665	ug/ml	100
64) Acenaphthene	7.318	154	2397998	208.594	ug/ml	100
65) 2,4-Dinitrophenol	7.377	184	398083	230.850	ug/ml	96
66) Dibenzofuran	7.485	168	3733447	204.534	ug/ml#	68
67) 2,4-Dinitrotoluene	7.507	165	938130	207.737	ug/ml#	82
68) 4-Nitrophenol	7.476	65	649065	210.641	ug/ml#	1
69) 2,3,5,6-Tetrachlorophenol	7.579	232	842142	218.393	ug/ml	99
70) 2,3,4,6-Tetrachlorophenol	7.619	232	845508	218.770	ug/ml	99
71) Diethyl phthalate	7.771	149	3275041	205.515	ug/ml	99
72) Fluorene	7.815	166	2986193	208.254	ug/ml	98
73) 4-Chlorophenyl phenyl ...	7.840	204	1465460	211.664	ug/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : ABNL10.D
Acq On : 3 Oct 2018 9:43 pm
Operator : sv109:cb
Sample : IL1,32,,ABNL200 Lot# 7573
Misc : WG1164344,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 04 09:03:08 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 08:57:06 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\181003nical\ABNL7.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74)	4-Nitroaniline	7.874	138	780897	201.610	ug/ml	86
75)	4,6-Dinitro-o-cresol	7.902	198	523222	225.290	ug/ml	99
76)	NDPA/DPA	7.964	169	2549246	206.740	ug/ml	98
77)	Azobenzene	7.992	77	3034682	201.328	ug/ml	99
79)	4-Bromophenyl phenyl e...	8.306	248	925718	222.330	ug/ml	98
80)	Hexachlorobenzene	8.349	284	1142916	221.338	ug/ml	96
81)	Pentachlorophenol	8.545	266	697491	230.890	ug/ml	99
88)	Phenanthrene	8.732	178	4400526	207.096	ug/ml	98
89)	Anthracene	8.782	178	4556384	208.700	ug/ml	98
90)	Carbazole	8.956	167	4229605	207.267	ug/ml	99
91)	Di-n-butylphthalate	9.357	149	5513548	208.579	ug/ml	99
92)	Fluoranthene	9.882	202	4870643	210.941	ug/ml	98
93)	Benzidine	10.047	184	3400397	225.913	ug/ml	99
94)	Pyrene	10.093	202	5048511	207.233	ug/ml	98
96)	Butyl benzyl phthalate	10.845	149	2559481	218.897	ug/ml	99
104)	Benzo(a)anthracene	11.408	228	4968940	193.093	ug/ml	98
105)	3,3'-Dichlorobenzidine	11.427	252	2175557	199.236	ug/ml	99
106)	Chrysene	11.454	228	4641341	192.391	ug/ml	98
107)	Bis(2-ethylhexyl)phtha...	11.594	149	3762694	199.369	ug/ml	99
108)	Di-n-octylphthalate	12.511	149	6410675	203.159	ug/ml	98
109)	Benzo(b)fluoranthene	12.859	252	4820973	199.013	ug/ml	98
110)	Benzo(k)fluoranthene	12.906	252	4862211M4	192.179	ug/ml	
111)	Benzo(a)pyrene	13.316	252	4697772	194.307	ug/ml	98
113)	Indeno(1,2,3-cd)pyrene	14.945	276	4434280	223.104	ug/ml	96
114)	Dibenzo(a,h)anthracene	15.004	278	4805728	229.656	ug/ml	96
115)	Benzo(ghi)perylene	15.312	276	4695682	219.183	ug/ml	96

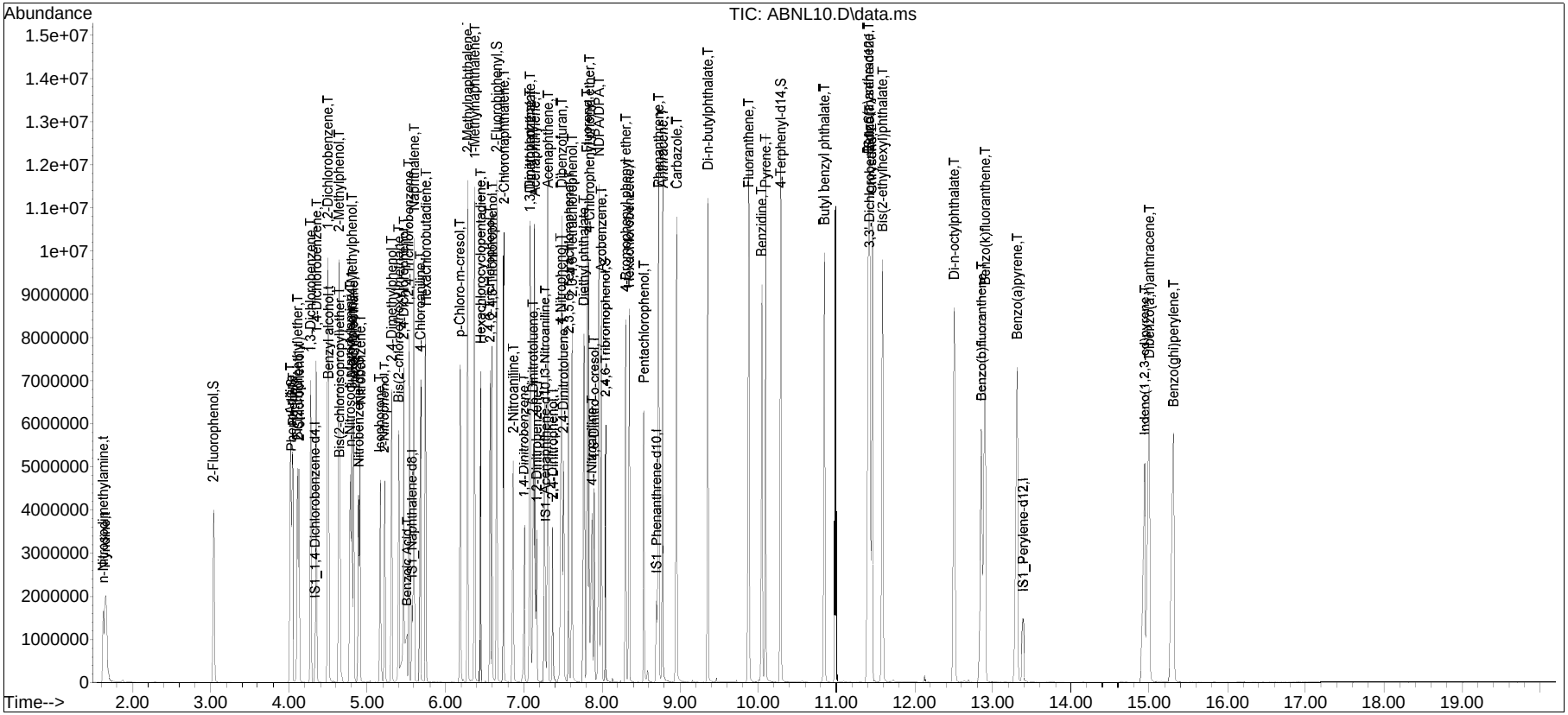
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : ABNL10.D
Acq On : 3 Oct 2018 9:43 pm
Operator : sv109:cb
Sample : IL1,32,,ABNL200 Lot# 7573
Misc : WG1164344,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Oct 04 09:03:08 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 08:57:06 2018
Response via : Initial Calibration

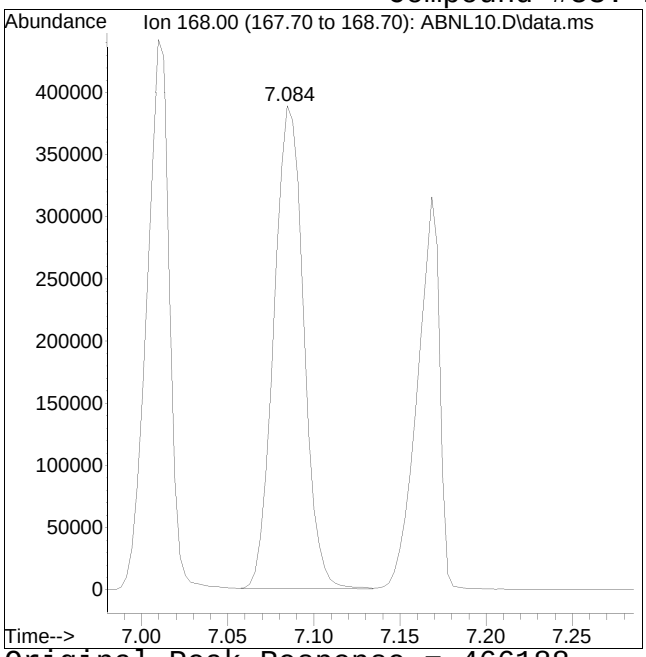
Sub List : ABNical - ABN ical sublistcal\ABNL7.D•



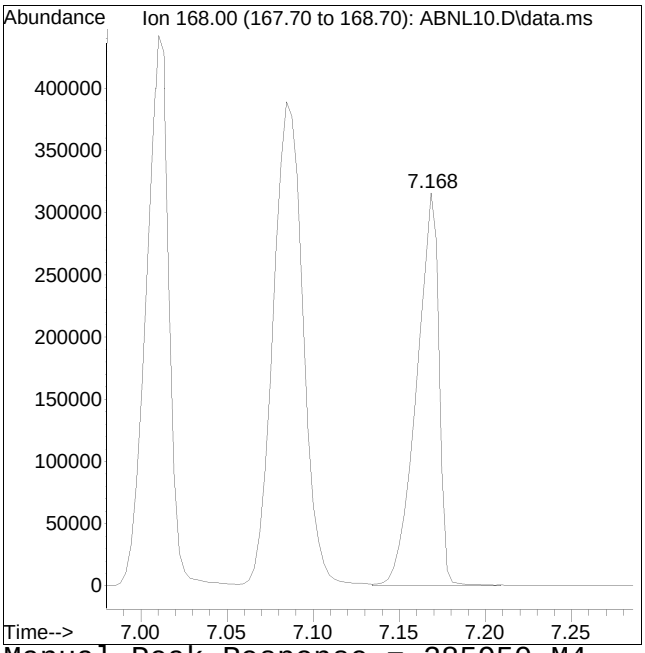
Manual Integration Report

Data Path : I:\8270\SV109\181003nical\QMethod : FS1801003nSV109.m
Data File : ABNL10.D Operator : sv109:cb
Date Inj'd : 10/3/2018 9:43 pm Instrument : SV109
Sample : IL1,32,,ABNL200 Lot# 7573 Quant Date : 10/4/2018 8:58 am

Compound #53: 1,2-Dinitrobenzene



Original Peak Response = 466188



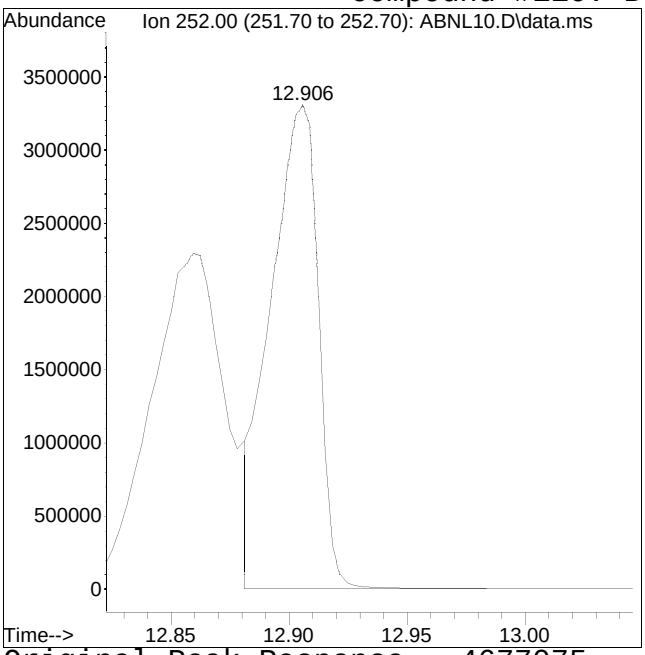
Manual Peak Response = 285950 M4

M4 = Poor automated baseline construction.

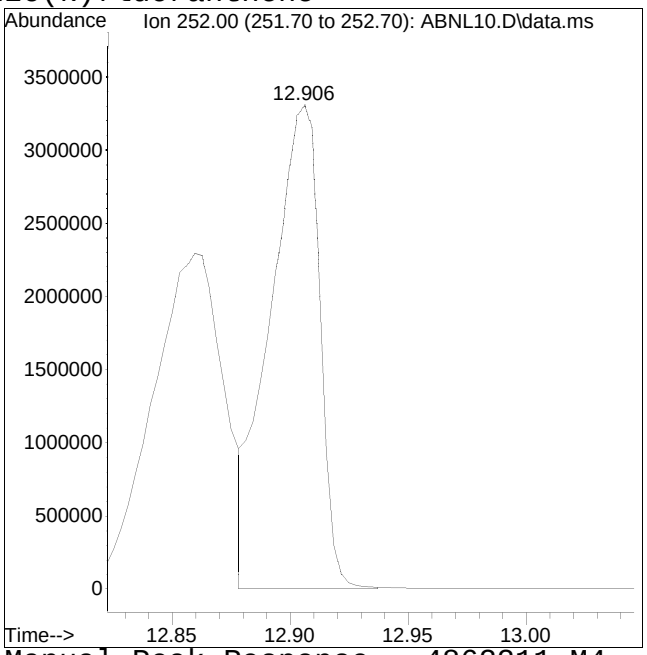
Manual Integration Report

Data Path : I:\8270\SV109\181003nical\QMethod : FS1801003nSV109.m
Data File : ABNL10.D Operator : sv109:cb
Date Inj'd : 10/3/2018 9:43 pm Instrument : SV109
Sample : IL1,32,,ABNL200 Lot# 7573 Quant Date : 10/4/2018 8:58 am

Compound #110: Benzo(k)fluoranthene



Original Peak Response = 4677075



Manual Peak Response = 4862211 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : ABNL9.D
Acq On : 3 Oct 2018 10:09 pm
Operator : sv109:cb
Sample : IL2,32,,ABNL150 Lot# 7582
Misc : WG1164344,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 04 09:29:13 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 08:57:06 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\181003nical\ABNL7.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.334	152	182412	40.000	ug/ml	0.00
Standard Area 1 = 177393			Recovery = 102.83%			
34) IS1_Naphthalene-d8	5.580	136	754997	40.000	ug/ml	0.00
Standard Area 1 = 728713			Recovery = 103.61%			
62) IS1_Acenaphthene-d10	7.280	164	377811	40.000	ug/ml	0.00
Standard Area 1 = 367597			Recovery = 102.78%			
87) IS1_Phenanthrene-d10	8.704	188	736973	40.000	ug/ml	0.00
Standard Area 1 = 730814			Recovery = 100.84%			
103) IS1_Chrysene-d12	11.414	240	802657	40.000	ug/ml	0.00
Standard Area 1 = 764672			Recovery = 104.97%			
112) IS1_Perylene-d12	13.385	264	723043	40.000	ug/ml	0.00
Standard Area 1 = 738756			Recovery = 97.87%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.032	112	878576	150.738	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 130		Recovery = 301.48%#			
7) Phenol-d6	4.036	99	1100904	153.975	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 130		Recovery = 307.95%#			
19) Nitrobenzene-d5	4.890	82	1022565	151.763	ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery = 607.05%#			
45) 2-Fluorobiphenyl	6.659	172	2217026	150.661	ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery = 602.64%#			
78) 2,4,6-Tribromophenol	8.045	330	431532	162.045	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 130		Recovery = 324.09%#			
95) 4-Terphenyl-d14	10.289	244	2795768	154.556	ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery = 618.22%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	1.621	74	570664	148.587	ug/ml	92
3) Pyridine	1.642	79	992300	149.039	ug/ml	94
5) Aniline	4.017	93	1425142	150.554	ug/ml#	65
6) 2-Chlorophenol	4.129	128	1009349	151.480	ug/ml	98
8) Phenol	4.048	94	1168190	151.681	ug/ml#	60
9) Bis(2-chloroethyl)ether	4.110	93	923505	151.398	ug/ml	98
10) 1,3-Dichlorobenzene	4.275	146	1092540	148.576	ug/ml	99
11) 1,4-Dichlorobenzene	4.353	146	1114930	151.383	ug/ml	99
12) 1,2-Dichlorobenzene	4.499	146	1088032	151.573	ug/ml	99
13) Benzyl alcohol	4.505	79	818534	153.720	ug/ml	98
14) Bis(2-chloroisopropyl)...	4.651	45	1516463	148.083	ug/ml#	91

Data Path : I:\8270\SV109\181003nical\
Data File : ABNL9.D
Acq On : 3 Oct 2018 10:09 pm
Operator : sv109:cb
Sample : IL2,32,,ABNL150 Lot# 7582
Misc : WG1164344,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 04 09:29:13 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 08:57:06 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\181003nical\ABNL7.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	4.639	108	902521	156.431	ug/ml	97
16) Hexachloroethane	4.825	117	451718	151.548	ug/ml	98
17) n-Nitrosodi-n-propylamine	4.782	70	688227	152.582	ug/ml	98
18) 3-Methylphenol/4-Methy...	4.803	108	936807	153.652	ug/ml	97
20) Nitrobenzene	4.909	77	1035170	150.706	ug/ml	99
21) Isophorone	5.161	82	1826137	148.741	ug/ml	99
22) 2-Nitrophenol	5.223	139	531910	153.907	ug/ml	96
23) 2,4-Dimethylphenol	5.313	107	959987	158.761	ug/ml	96
24) Bis(2-chloroethoxy)met...	5.400	93	1201789	151.538	ug/ml#	96
25) 2,4-Dichlorophenol	5.468	162	857866	153.161	ug/ml	99
26) 1,2,4-Trichlorobenzene	5.537	180	946134	152.556	ug/ml	99
35) Naphthalene	5.602	128	2928005	149.060	ug/ml	100
36) Benzoic Acid	5.493	105	785480	166.545	ug/ml	97
37) 4-Chloroaniline	5.680	65	393496	152.297	ug/ml	92
38) Hexachlorobutadiene	5.751	225	559300	151.839	ug/ml	99
39) p-Chloro-m-cresol	6.183	107	869963	154.160	ug/ml	100
40) 2-Methylnaphthalene	6.283	142	2027029	153.021	ug/ml	97
41) 1-Methylnaphthalene	6.373	115	710073	152.923	ug/ml	86
42) Hexachlorocyclopentadiene	6.447	237	718804	163.475	ug/ml	99
43) 2,4,6-Trichlorophenol	6.572	196	637948	155.450	ug/ml	99
44) 2,4,5-Trichlorophenol	6.600	196	687811	159.080	ug/ml	99
46) 2-Chloronaphthalene	6.746	162	1898008	150.615	ug/ml	98
47) 2-Nitroaniline	6.867	138	648606	153.844	ug/ml	98
48) 1,4-Dinitrobenzene	7.007	168	291472	156.007	ug/ml	97
49) 1,3-Dinitrobenzene	7.082	168	333946	152.091	ug/ml	96
50) Dimethyl phthalate	7.082	163	2256988	149.659	ug/ml	100
51) Acenaphthylene	7.141	152	3023277	148.849	ug/ml	99
52) 2,6-Dinitrotoluene	7.119	165	483145	148.369	ug/ml	94
53) 1,2-Dinitrobenzene	7.162	168	205969M3	146.251	ug/ml	
63) 3-Nitroaniline	7.271	138	568091	151.382	ug/ml	98
64) Acenaphthene	7.315	154	1752274	154.480	ug/ml	99
65) 2,4-Dinitrophenol	7.371	184	287684	169.079	ug/ml	96
66) Dibenzofuran	7.482	168	2709023	150.413	ug/ml#	69
67) 2,4-Dinitrotoluene	7.504	165	669834	150.326	ug/ml#	84
68) 4-Nitrophenol	7.470	65	469503	154.423	ug/ml#	1
69) 2,3,5,6-Tetrachlorophenol	7.576	232	596736	156.838	ug/ml	100
70) 2,3,4,6-Tetrachlorophenol	7.616	232	600482	157.467	ug/ml	99
71) Diethyl phthalate	7.768	149	2345562	149.173	ug/ml	100
72) Fluorene	7.812	166	2150791	152.017	ug/ml	99
73) 4-Chlorophenyl phenyl ...	7.837	204	1047441	153.327	ug/ml	100

Data Path : I:\8270\SV109\181003nical\
Data File : ABNL9.D
Acq On : 3 Oct 2018 10:09 pm
Operator : sv109:cb
Sample : IL2,32,,ABNL150 Lot# 7582
Misc : WG1164344,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 04 09:29:13 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 08:57:06 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\181003nical\ABNL7.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74)	4-Nitroaniline	7.865	138	554407	145.066	ug/ml	94
75)	4,6-Dinitro-o-cresol	7.896	198	367360	160.312	ug/ml	99
76)	NDPA/DPA	7.958	169	1839513	151.194	ug/ml	99
77)	Azobenzene	7.989	77	2234328	150.230	ug/ml	99
79)	4-Bromophenyl phenyl e...	8.303	248	652390	158.798	ug/ml	98
80)	Hexachlorobenzene	8.343	284	801070	157.228	ug/ml	97
81)	Pentachlorophenol	8.542	266	479042	160.716	ug/ml	99
88)	Phenanthrene	8.729	178	3149746	151.866	ug/ml	98
89)	Anthracene	8.779	178	3294440	154.597	ug/ml	99
90)	Carbazole	8.953	167	3026853	151.964	ug/ml	99
91)	Di-n-butylphthalate	9.354	149	3946742	152.966	ug/ml	99
92)	Fluoranthene	9.879	202	3447832	152.982	ug/ml	98
93)	Benzidine	10.044	184	2397402	163.181	ug/ml	99
94)	Pyrene	10.090	202	3576251	150.398	ug/ml	98
96)	Butyl benzyl phthalate	10.842	149	1778150	155.803	ug/ml	100
104)	Benzo(a)anthracene	11.405	228	3513923	144.661	ug/ml	98
105)	3,3'-Dichlorobenzidine	11.420	252	1528507	148.293	ug/ml	99
106)	Chrysene	11.451	228	3296886	144.778	ug/ml	99
107)	Bis(2-ethylhexyl)phtha...	11.594	149	2593678	145.590	ug/ml	100
108)	Di-n-octylphthalate	12.508	149	4429139	148.699	ug/ml	99
109)	Benzo(b)fluoranthene	12.853	252	3344089	146.245	ug/ml	98
110)	Benzo(k)fluoranthene	12.897	252	3421511	143.267	ug/ml	98
111)	Benzo(a)pyrene	13.310	252	3316180	145.309	ug/ml	98
113)	Indeno(1,2,3-cd)pyrene	14.936	276	3090037	157.629	ug/ml	96
114)	Dibenzo(a,h)anthracene	14.992	278	3239143	156.941	ug/ml	97
115)	Benzo(ghi)perylene	15.299	276	3257716	154.173	ug/ml	96

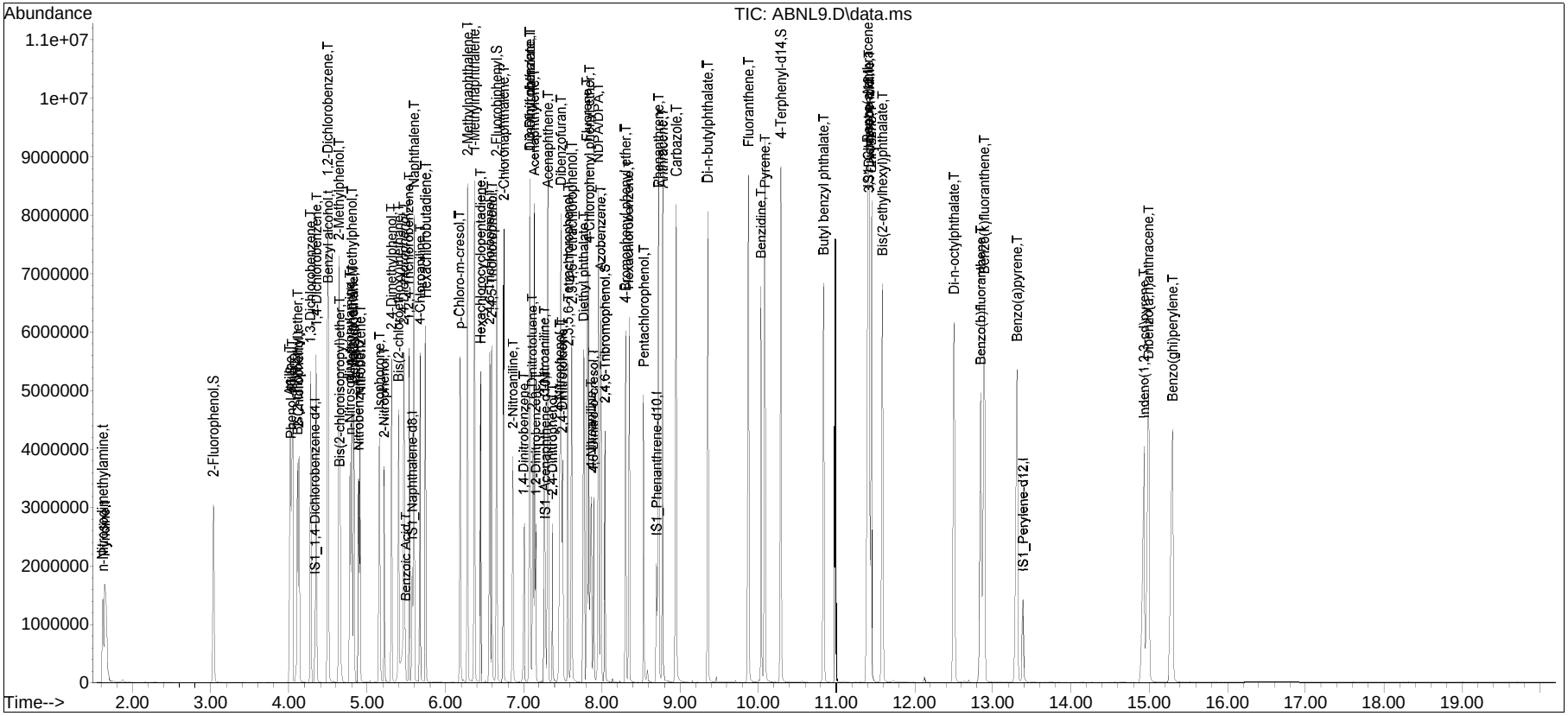
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : ABNL9.D
Acq On : 3 Oct 2018 10:09 pm
Operator : sv109:cb
Sample : IL2,32,,ABNL150 Lot# 7582
Misc : WG1164344,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 04 09:29:13 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 08:57:06 2018
Response via : Initial Calibration

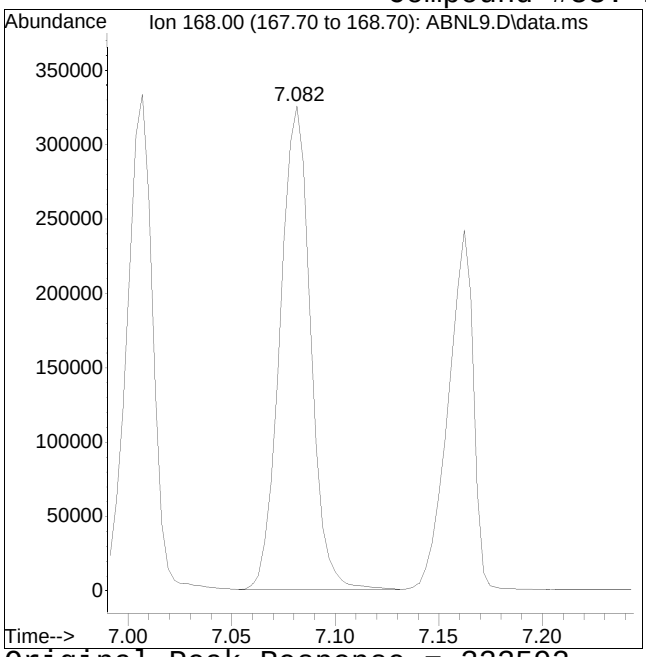
Sub List : ABNical - ABN ical sublistcal\ABNL7.D•

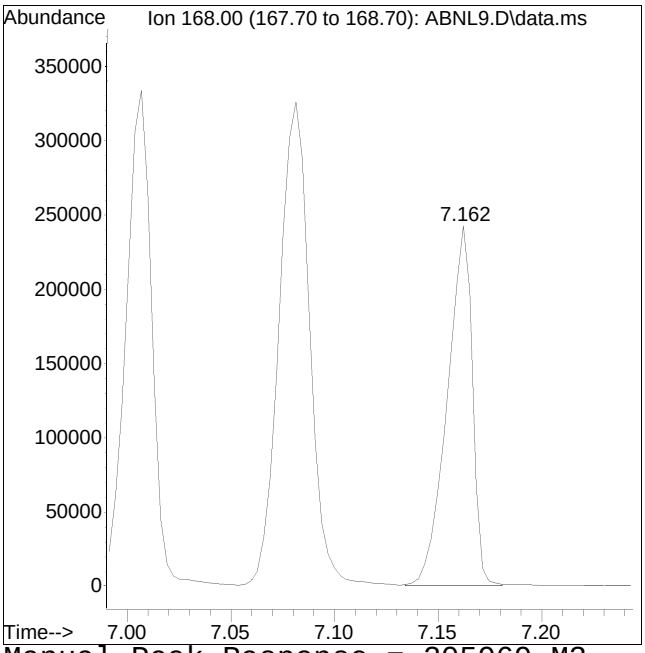


Manual Integration Report

Data Path : I:\8270\SV109\181003nical\QMethod : FS1801003nSV109.m
Data File : ABNL9.D Operator : sv109:cb
Date Inj'd : 10/3/2018 10:09 pm Instrument : SV109
Sample : IL2,32,,ABNL150 Lot# 7582 Quant Date : 10/4/2018 8:59 am

Compound #53: 1,2-Dinitrobenzene





Original Peak Response = 333592 Manual Peak Response = 205969 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : ABNL8.D
Acq On : 3 Oct 2018 10:34 pm
Operator : sv109:cb
Sample : IL3,32,,ABNL100 Lot# 7581
Misc : WG1164344,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 04 09:28:29 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 08:57:06 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\181003nical\ABNL7.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.334	152	178572	40.000	ug/ml	0.00
Standard Area 1 = 177393			Recovery = 100.66%			
34) IS1_Naphthalene-d8	5.580	136	743617	40.000	ug/ml	0.00
Standard Area 1 = 728713			Recovery = 102.05%			
62) IS1_Acenaphthene-d10	7.280	164	375321	40.000	ug/ml	0.00
Standard Area 1 = 367597			Recovery = 102.10%			
87) IS1_Phenanthrene-d10	8.704	188	758007	40.000	ug/ml	0.00
Standard Area 1 = 730814			Recovery = 103.72%			
103) IS1_Chrysene-d12	11.411	240	824483	40.000	ug/ml	0.00
Standard Area 1 = 764672			Recovery = 107.82%			
112) IS1_Perylene-d12	13.382	264	753393	40.000	ug/ml	0.00
Standard Area 1 = 738756			Recovery = 101.98%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.035	112	575414	100.847	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 130		Recovery = 201.69%#			
7) Phenol-d6	4.032	99	712229	101.756	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 130		Recovery = 203.51%#			
19) Nitrobenzene-d5	4.887	82	671577	101.815	ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery = 407.26%#			
45) 2-Fluorobiphenyl	6.656	172	1451968	100.180	ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery = 400.72%#			
78) 2,4,6-Tribromophenol	8.045	330	280021	105.849	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 130		Recovery = 211.70%#			
95) 4-Terphenyl-d14	10.286	244	1903962	102.335	ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery = 409.34%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	1.620	74	375536	99.883	ug/ml	90
3) Pyridine	1.652	79	651442	99.948	ug/ml	95
5) Aniline	4.017	93	928856	100.235	ug/ml#	65
6) 2-Chlorophenol	4.129	128	650464	99.719	ug/ml	97
8) Phenol	4.045	94	765447	101.525	ug/ml#	60
9) Bis(2-chloroethyl)ether	4.107	93	601966	100.808	ug/ml	95
10) 1,3-Dichlorobenzene	4.275	146	715419	99.383	ug/ml	100
11) 1,4-Dichlorobenzene	4.352	146	730869	101.370	ug/ml	99
12) 1,2-Dichlorobenzene	4.495	146	704703	100.283	ug/ml	99
13) Benzyl alcohol	4.502	79	531881	102.034	ug/ml	98
14) Bis(2-chloroisopropyl)...	4.651	45	998623	99.613	ug/ml#	91

Data Path : I:\8270\SV109\181003nical\
Data File : ABNL8.D
Acq On : 3 Oct 2018 10:34 pm
Operator : sv109:cb
Sample : IL3,32,,ABNL100 Lot# 7581
Misc : WG1164344,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 04 09:28:29 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 08:57:06 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\181003nical\ABNL7.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	4.638	108	582036	103.052	ug/ml	97
16) Hexachloroethane	4.825	117	293529	100.594	ug/ml	99
17) n-Nitrosodi-n-propylamine	4.775	70	449370	101.769	ug/ml	98
18) 3-Methylphenol/4-Methy...	4.800	108	609229	102.073	ug/ml	97
20) Nitrobenzene	4.906	77	678572	100.915	ug/ml	99
21) Isophorone	5.154	82	1209617	100.643	ug/ml	99
22) 2-Nitrophenol	5.220	139	346165	102.316	ug/ml	95
23) 2,4-Dimethylphenol	5.310	107	612717	103.509	ug/ml	97
24) Bis(2-chloroethoxy)met...	5.400	93	785967	101.237	ug/ml#	96
25) 2,4-Dichlorophenol	5.465	162	562479	102.583	ug/ml	99
26) 1,2,4-Trichlorobenzene	5.537	180	623984	102.776	ug/ml	98
35) Naphthalene	5.599	128	1935003	100.016	ug/ml	100
36) Benzoic Acid	5.468	105	506041	108.937	ug/ml	97
37) 4-Chloroaniline	5.677	65	256521	100.802	ug/ml	92
38) Hexachlorobutadiene	5.751	225	357400	98.512	ug/ml	98
39) p-Chloro-m-cresol	6.183	107	565516	101.744	ug/ml	99
40) 2-Methylnaphthalene	6.279	142	1316082	100.872	ug/ml	97
41) 1-Methylnaphthalene	6.373	115	461645	100.943	ug/ml	86
42) Hexachlorocyclopentadiene	6.447	237	455625	105.207	ug/ml	99
43) 2,4,6-Trichlorophenol	6.572	196	414245	102.484	ug/ml	99
44) 2,4,5-Trichlorophenol	6.600	196	438558	102.984	ug/ml	97
46) 2-Chloronaphthalene	6.746	162	1255146	101.125	ug/ml	99
47) 2-Nitroaniline	6.864	138	427704	103.001	ug/ml	97
48) 1,4-Dinitrobenzene	7.004	168	194007	105.429	ug/ml	97
49) 1,3-Dinitrobenzene	7.078	168	223376	103.290	ug/ml	96
50) Dimethyl phthalate	7.078	163	1514371	101.953	ug/ml	100
51) Acenaphthylene	7.140	152	2015590	100.755	ug/ml	99
52) 2,6-Dinitrotoluene	7.116	165	323919	100.995	ug/ml	95
53) 1,2-Dinitrobenzene	7.156	168	139495M4	100.566	ug/ml	
63) 3-Nitroaniline	7.268	138	383601	102.898	ug/ml	99
64) Acenaphthene	7.311	154	1153704	102.385	ug/ml	99
65) 2,4-Dinitrophenol	7.367	184	187379	110.858	ug/ml	96
66) Dibenzofuran	7.482	168	1813606	101.365	ug/ml#	70
67) 2,4-Dinitrotoluene	7.498	165	449261	101.494	ug/ml#	83
68) 4-Nitrophenol	7.464	65	314768	104.216	ug/ml#	33
69) 2,3,5,6-Tetrachlorophenol	7.572	232	389254	102.985	ug/ml	99
70) 2,3,4,6-Tetrachlorophenol	7.616	232	401166	105.897	ug/ml	99
71) Diethyl phthalate	7.765	149	1567620	100.359	ug/ml	100
72) Fluorene	7.812	166	1423594	101.286	ug/ml	98
73) 4-Chlorophenyl phenyl ...	7.834	204	696014	102.560	ug/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : ABNL8.D
Acq On : 3 Oct 2018 10:34 pm
Operator : sv109:cb
Sample : IL3,32,,ABNL100 Lot# 7581
Misc : WG1164344,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 04 09:28:29 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 08:57:06 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\181003nical\ABNL7.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74)	4-Nitroaniline	7.858	138	377049	99.313	ug/ml	94
75)	4,6-Dinitro-o-cresol	7.889	198	249010	109.386	ug/ml	98
76)	NDPA/DPA	7.955	169	1227262	101.541	ug/ml	99
77)	Azobenzene	7.986	77	1504506	101.830	ug/ml	99
79)	4-Bromophenyl phenyl e...	8.303	248	429379	105.208	ug/ml	99
80)	Hexachlorobenzene	8.343	284	532785	105.265	ug/ml	96
81)	Pentachlorophenol	8.542	266	317957	107.380	ug/ml	100
88)	Phenanthrene	8.729	178	2140048	100.320	ug/ml	99
89)	Anthracene	8.778	178	2218546	101.220	ug/ml	99
90)	Carbazole	8.952	167	2052657	100.194	ug/ml	99
91)	Di-n-butylphthalate	9.353	149	2709364	102.095	ug/ml	100
92)	Fluoranthene	9.876	202	2358454	101.742	ug/ml	98
93)	Benzidine	10.040	184	1594686	105.532	ug/ml	99
94)	Pyrene	10.090	202	2452343	100.271	ug/ml	99
96)	Butyl benzyl phthalate	10.839	149	1213971	103.417	ug/ml	99
104)	Benzo(a)anthracene	11.402	228	2426523	97.251	ug/ml	99
105)	3,3'-Dichlorobenzidine	11.414	252	1048979	99.076	ug/ml	99
106)	Chrysene	11.445	228	2264607	96.814	ug/ml	98
107)	Bis(2-ethylhexyl)phtha...	11.591	149	1796840	98.191	ug/ml	100
108)	Di-n-octylphthalate	12.508	149	3060142	100.018	ug/ml	99
109)	Benzo(b)fluoranthene	12.847	252	2257737	96.123	ug/ml	98
110)	Benzo(k)fluoranthene	12.890	252	2376129	96.861	ug/ml	98
111)	Benzo(a)pyrene	13.301	252	2265345	96.635	ug/ml	98
113)	Indeno(1,2,3-cd)pyrene	14.926	276	2083665	102.010	ug/ml	96
114)	Dibenzo(a,h)anthracene	14.985	278	2191946	101.925	ug/ml	97
115)	Benzo(ghi)perylene	15.287	276	2210217	100.386	ug/ml	96

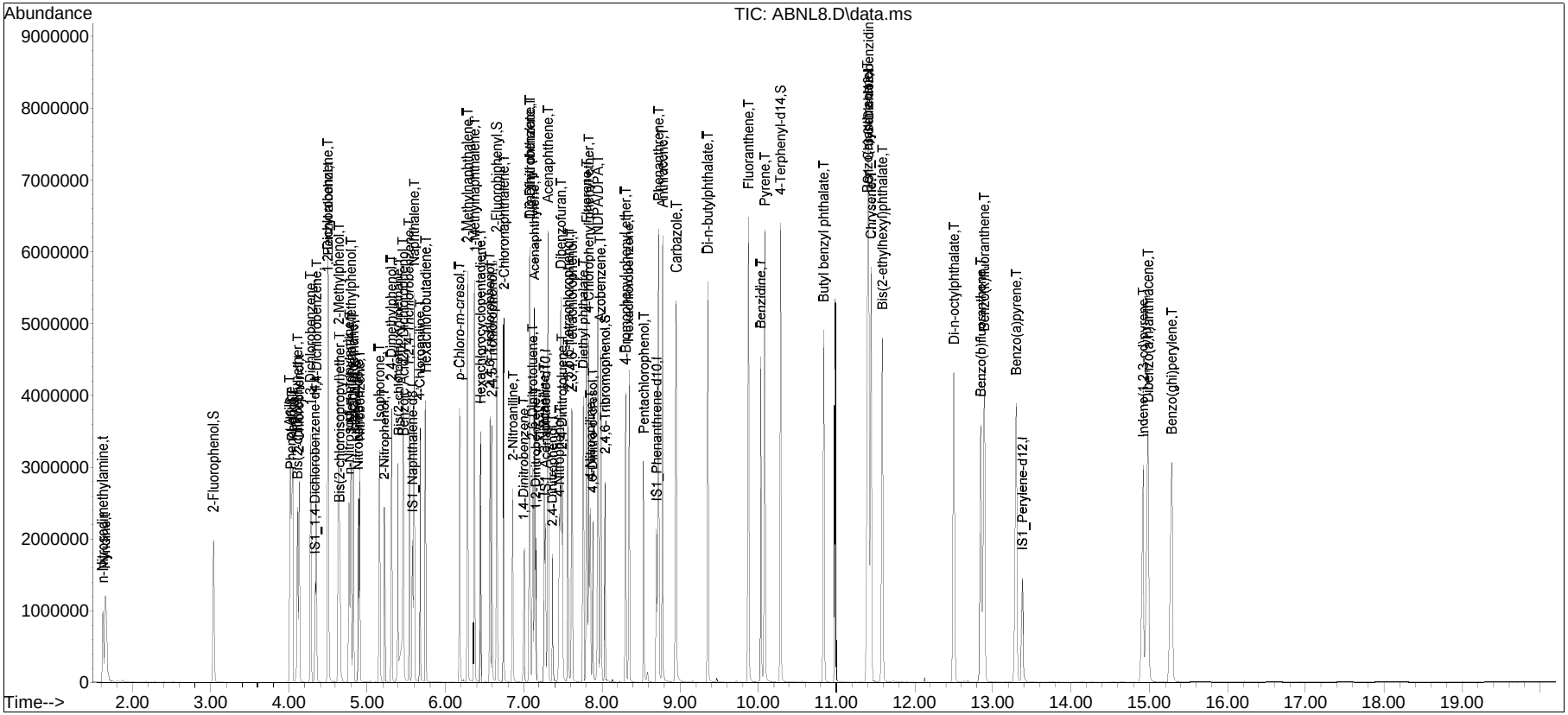
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : ABNL8.D
Acq On : 3 Oct 2018 10:34 pm
Operator : sv109:cb
Sample : IL3,32,,ABNL100 Lot# 7581
Misc : WG1164344,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 04 09:28:29 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 08:57:06 2018
Response via : Initial Calibration

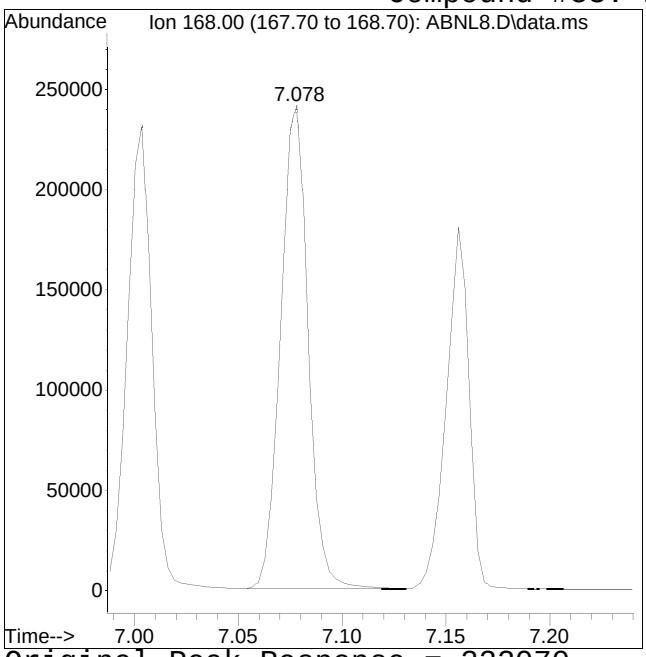
Sub List : ABNical - ABN ical sublistcal\ABNL7.D•



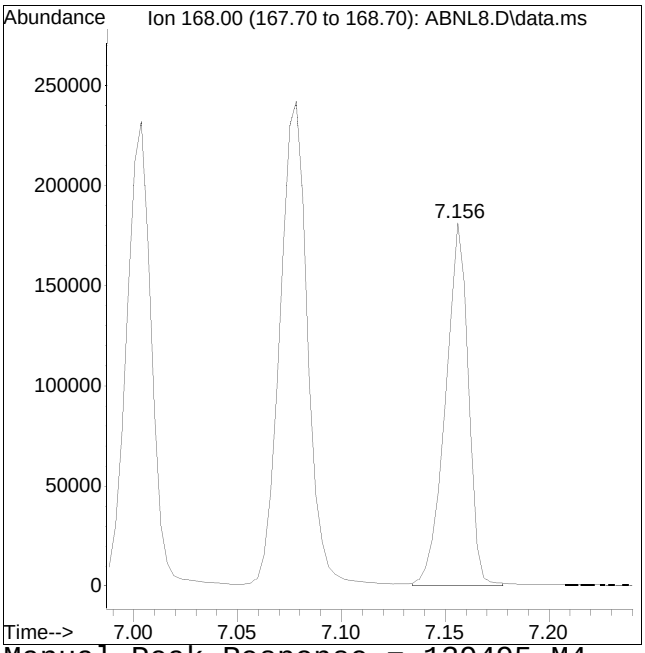
Manual Integration Report

Data Path : I:\8270\SV109\181003nical\QMethod : FS1801003nSV109.m
Data File : ABNL8.D Operator : sv109:cb
Date Inj'd : 10/3/2018 10:34 pm Instrument : SV109
Sample : IL3,32,,ABNL100 Lot# 7581 Quant Date : 10/4/2018 8:59 am

Compound #53: 1,2-Dinitrobenzene



Original Peak Response = 222070



Manual Peak Response = 139495 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : ABNL7.D
Acq On : 3 Oct 2018 10:59 pm
Operator : sv109:cb
Sample : IL4,32,,ABNL50 Lot# 7580
Misc : WG1164344,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 04 09:27:28 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 08:57:06 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\181003nical\ABNL7.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.334	152	177393	40.000	ug/ml	0.00
Standard Area 1 = 177393			Recovery = 100.00%			
34) IS1_Naphthalene-d8	5.577	136	728713	40.000	ug/ml	0.00
Standard Area 1 = 728713			Recovery = 100.00%			
62) IS1_Acenaphthene-d10	7.277	164	367597	40.000	ug/ml	0.00
Standard Area 1 = 367597			Recovery = 100.00%			
87) IS1_Phenanthrene-d10	8.704	188	730814	40.000	ug/ml	0.00
Standard Area 1 = 730814			Recovery = 100.00%			
103) IS1_Chrysene-d12	11.411	240	764672	40.000	ug/ml	0.00
Standard Area 1 = 764672			Recovery = 100.00%			
112) IS1_Perylene-d12	13.382	264	738756	40.000	ug/ml	0.00
Standard Area 1 = 738756			Recovery = 100.00%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.032	112	283406	50.000	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 130		Recovery = 100.00%			
7) Phenol-d6	4.026	99	347657	50.000	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 130		Recovery = 100.00%			
19) Nitrobenzene-d5	4.884	82	327626	50.000	ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery = 200.00%#			
45) 2-Fluorobiphenyl	6.653	172	710153	50.000	ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery = 200.00%#			
78) 2,4,6-Tribromophenol	8.042	330	129552	50.000	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 130		Recovery = 100.00%			
95) 4-Terphenyl-d14	10.286	244	896891	50.000	ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery = 200.00%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	1.617	74	186746	50.000	ug/ml	90
3) Pyridine	1.645	79	323740	50.000	ug/ml	95
5) Aniline	4.014	93	460278	50.000	ug/ml#	64
6) 2-Chlorophenol	4.126	128	323996	50.000	ug/ml	97
8) Phenol	4.039	94	374485	50.000	ug/ml#	60
9) Bis(2-chloroethyl)ether	4.104	93	296600	50.000	ug/ml	94
10) 1,3-Dichlorobenzene	4.275	146	357553	50.000	ug/ml	100
11) 1,4-Dichlorobenzene	4.349	146	358116	50.000	ug/ml	99
12) 1,2-Dichlorobenzene	4.496	146	349038	50.000	ug/ml	100
13) Benzyl alcohol	4.499	79	258917	50.000	ug/ml	98
14) Bis(2-chloroisopropyl)...	4.648	45	497942	50.000	ug/ml	92

Data Path : I:\8270\SV109\181003nical\
Data File : ABNL7.D
Acq On : 3 Oct 2018 10:59 pm
Operator : sv109:cb
Sample : IL4,32,,ABNL50 Lot# 7580
Misc : WG1164344,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 04 09:27:28 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 08:57:06 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\181003nical\ABNL7.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	4.635	108	280536	50.000	ug/ml	97
16) Hexachloroethane	4.825	117	144934	50.000	ug/ml	98
17) n-Nitrosodi-n-propylamine	4.772	70	219321	50.000	ug/ml	98
18) 3-Methylphenol/4-Methy...	4.794	108	296459	50.000	ug/ml	98
20) Nitrobenzene	4.903	77	333990	50.000	ug/ml	98
21) Isophorone	5.151	82	596974	50.000	ug/ml	99
22) 2-Nitrophenol	5.220	139	168048	50.000	ug/ml	95
23) 2,4-Dimethylphenol	5.307	107	294019	50.000	ug/ml	97
24) Bis(2-chloroethoxy)met...	5.394	93	385619	50.000	ug/ml	97
25) 2,4-Dichlorophenol	5.462	162	272348	50.000	ug/ml	99
26) 1,2,4-Trichlorobenzene	5.534	180	301562	50.000	ug/ml	98
35) Naphthalene	5.599	128	947963	50.000	ug/ml	100
36) Benzoic Acid	5.434	105	227607	50.000	ug/ml	96
37) 4-Chloroaniline	5.677	65	124690	50.000	ug/ml	91
38) Hexachlorobutadiene	5.751	225	177764	50.000	ug/ml	99
39) p-Chloro-m-cresol	6.180	107	272340	50.000	ug/ml	100
40) 2-Methylnaphthalene	6.280	142	639280	50.000	ug/ml	97
41) 1-Methylnaphthalene	6.370	115	224076	49.998	ug/ml	87
42) Hexachlorocyclopentadiene	6.447	237	212198	50.000	ug/ml	99
43) 2,4,6-Trichlorophenol	6.569	196	198051	50.000	ug/ml	99
44) 2,4,5-Trichlorophenol	6.597	196	208658	50.000	ug/ml	98
46) 2-Chloronaphthalene	6.743	162	608151	50.000	ug/ml	99
47) 2-Nitroaniline	6.861	138	203461	50.000	ug/ml	96
48) 1,4-Dinitrobenzene	6.998	168	90164	50.000	ug/ml	99
49) 1,3-Dinitrobenzene	7.072	168	105505	49.784	ug/ml	97
50) Dimethyl phthalate	7.072	163	727795	50.000	ug/ml	100
51) Acenaphthylene	7.137	152	980197	50.000	ug/ml	100
52) 2,6-Dinitrotoluene	7.109	165	157150	50.000	ug/ml	95
53) 1,2-Dinitrobenzene	7.150	168	67965	50.000	ug/ml	91
63) 3-Nitroaniline	7.262	138	182562	50.000	ug/ml	97
64) Acenaphthene	7.308	154	551818	50.000	ug/ml	98
65) 2,4-Dinitrophenol	7.364	184	82774	50.000	ug/ml	96
66) Dibenzofuran	7.479	168	876183	50.000	ug/ml	98
67) 2,4-Dinitrotoluene	7.495	165	216770	50.000	ug/ml	99
68) 4-Nitrophenol	7.458	65	147909	50.000	ug/ml	89
69) 2,3,5,6-Tetrachlorophenol	7.569	232	185096	50.000	ug/ml	99
70) 2,3,4,6-Tetrachlorophenol	7.613	232	185515	50.000	ug/ml	98
71) Diethyl phthalate	7.762	149	764933	50.000	ug/ml	99
72) Fluorene	7.809	166	688294	50.000	ug/ml	97
73) 4-Chlorophenyl phenyl ...	7.834	204	332336	50.000	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : ABNL7.D
Acq On : 3 Oct 2018 10:59 pm
Operator : sv109:cb
Sample : IL4,32,,ABNL50 Lot# 7580
Misc : WG1164344,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 04 09:27:28 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 08:57:06 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\181003nical\ABNL7.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74)	4-Nitroaniline	7.849	138	185122	49.785	ug/ml	92
75)	4,6-Dinitro-o-cresol	7.883	198	111479	50.000	ug/ml	98
76)	NDPA/DPA	7.952	169	591884	50.000	ug/ml	99
77)	Azobenzene	7.983	77	723461	49.995	ug/ml	99
79)	4-Bromophenyl phenyl e...	8.300	248	199862	50.000	ug/ml	99
80)	Hexachlorobenzene	8.340	284	247861	50.000	ug/ml	99
81)	Pentachlorophenol	8.539	266	145005	50.000	ug/ml	99
88)	Phenanthrene	8.726	178	1028348	50.000	ug/ml	99
89)	Anthracene	8.772	178	1052841	49.823	ug/ml	99
90)	Carbazole	8.946	167	986776	49.959	ug/ml	100
91)	Di-n-butylphthalate	9.354	149	1279287	50.000	ug/ml	99
92)	Fluoranthene	9.876	202	1117458	50.000	ug/ml	98
93)	Benzidine	10.040	184	728444	50.000	ug/ml	99
94)	Pyrene	10.087	202	1178991	50.000	ug/ml	99
96)	Butyl benzyl phthalate	10.839	149	565872	50.000	ug/ml	99
104)	Benzo(a)anthracene	11.399	228	1157059	50.000	ug/ml	99
105)	3,3'-Dichlorobenzidine	11.414	252	490977	50.000	ug/ml	99
106)	Chrysene	11.442	228	1084719	50.000	ug/ml	99
107)	Bis(2-ethylhexyl)phtha...	11.594	149	848594	50.000	ug/ml	99
108)	Di-n-octylphthalate	12.505	149	1418820	50.000	ug/ml	100
109)	Benzo(b)fluoranthene	12.844	252	1087813	49.936	ug/ml	98
110)	Benzo(k)fluoranthene	12.884	252	1137382	49.991	ug/ml	98
111)	Benzo(a)pyrene	13.298	252	1087081	50.000	ug/ml	98
113)	Indeno(1,2,3-cd)pyrene	14.917	276	1001711	50.012	ug/ml	97
114)	Dibenzo(a,h)anthracene	14.976	278	1055616	50.058	ug/ml	97
115)	Benzo(ghi)perylene	15.278	276	1079740	50.012	ug/ml	96

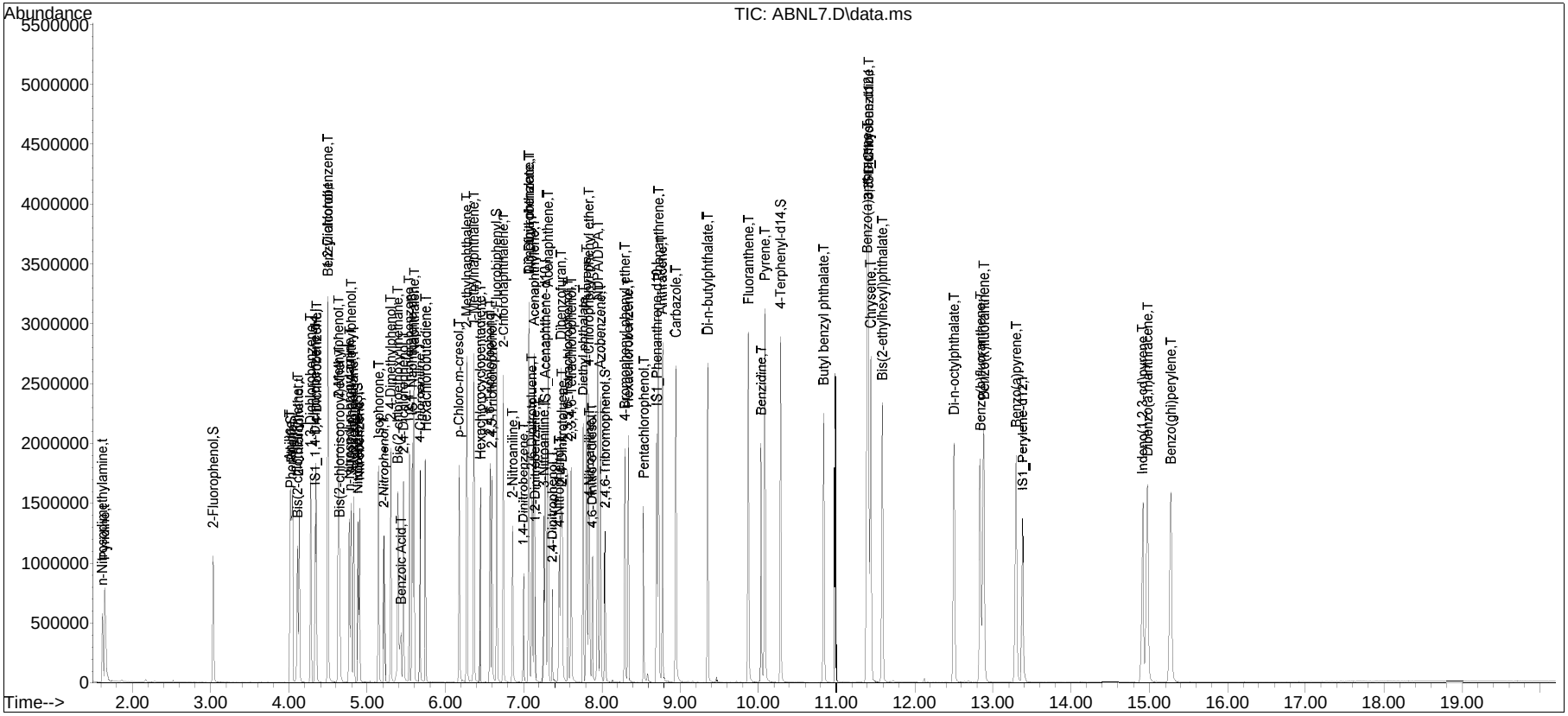
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : ABNL7.D
Acq On : 3 Oct 2018 10:59 pm
Operator : sv109:cb
Sample : IL4,32,,ABNL50 Lot# 7580
Misc : WG1164344,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 04 09:27:28 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 08:57:06 2018
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublistcal\ABNL7.D•



Manual Integration Report

Data Path	: I:\8270\SV109\181003nical\	QMethod	: FS1801003nSV109.m
Data File	: ABNL7.D	Operator	: sv109:cb
Date Inj'd	: 10/3/2018 10:59 pm	Instrument	: SV109
Sample	: IL4,32,,ABNL50 Lot# 7580	Quant Date	: 10/4/2018 8:59 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : ABNL6.D
Acq On : 3 Oct 2018 11:25 pm
Operator : sv109:cb
Sample : IL5,32,,ABNL20 Lot# 7579
Misc : WG1164344,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 04 16:03:48 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 08:57:06 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\181003nical\ABNL7.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.334	152	177339	40.000	ug/ml	0.00
Standard Area 1 = 177393			Recovery = 99.97%			
34) IS1_Naphthalene-d8	5.577	136	737041	40.000	ug/ml	0.00
Standard Area 1 = 728713			Recovery = 101.14%			
62) IS1_Acenaphthene-d10	7.277	164	368594	40.000	ug/ml	0.00
Standard Area 1 = 367597			Recovery = 100.27%			
87) IS1_Phenanthrene-d10	8.701	188	730090	40.000	ug/ml	0.00
Standard Area 1 = 730814			Recovery = 99.90%			
103) IS1_Chrysene-d12	11.408	240	750788	40.000	ug/ml	0.00
Standard Area 1 = 764672			Recovery = 98.18%			
112) IS1_Perylene-d12	13.382	264	756781	40.000	ug/ml	0.00
Standard Area 1 = 738756			Recovery = 102.44%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.032	112	111378	19.656	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 130		Recovery = 39.31%			
7) Phenol-d6	4.023	99	137745	19.817	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 130		Recovery = 39.63%			
19) Nitrobenzene-d5	4.884	82	129327	19.743	ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery = 78.97%			
45) 2-Fluorobiphenyl	6.653	172	280437	19.522	ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery = 78.09%			
78) 2,4,6-Tribromophenol	8.039	330	48492	18.665	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 130		Recovery = 37.33%			
95) 4-Terphenyl-d14	10.283	244	347053	19.367	ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery = 77.47%			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	1.617	74	74459	19.942	ug/ml	88
3) Pyridine	1.649	79	129381	19.988	ug/ml	95
5) Aniline	4.011	93	184812	20.082	ug/ml#	64
6) 2-Chlorophenol	4.126	128	127025	19.609	ug/ml	97
8) Phenol	4.036	94	148784	19.871	ug/ml#	60
9) Bis(2-chloroethyl)ether	4.104	93	117517	19.817	ug/ml	94
10) 1,3-Dichlorobenzene	4.275	146	142214	19.893	ug/ml	100
11) 1,4-Dichlorobenzene	4.350	146	144143	20.131	ug/ml	98
12) 1,2-Dichlorobenzene	4.496	146	141537	20.281	ug/ml	99
13) Benzyl alcohol	4.496	79	99264	19.175	ug/ml	97
14) Bis(2-chloroisopropyl)...	4.648	45	200136	20.102	ug/ml#	91

Data Path : I:\8270\SV109\181003nical\
Data File : ABNL6.D
Acq On : 3 Oct 2018 11:25 pm
Operator : sv109:cb
Sample : IL5,32,,ABNL20 Lot# 7579
Misc : WG1164344,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 04 16:03:48 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 08:57:06 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\181003nical\ABNL7.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	4.632	108	112104	19.986	ug/ml	96
16) Hexachloroethane	4.825	117	57445	19.824	ug/ml	98
17) n-Nitrosodi-n-propylamine	4.769	70	88915	20.277	ug/ml	97
18) 3-Methylphenol/4-Methy...	4.794	108	116815	19.708	ug/ml	96
20) Nitrobenzene	4.903	77	131350	19.670	ug/ml	99
21) Isophorone	5.148	82	236988	19.855	ug/ml	99
22) 2-Nitrophenol	5.220	139	64001	19.048	ug/ml	94
23) 2,4-Dimethylphenol	5.307	107	112073	19.065	ug/ml	98
24) Bis(2-chloroethoxy)met...	5.394	93	152717	19.808	ug/ml	99
25) 2,4-Dichlorophenol	5.459	162	105674	19.406	ug/ml	99
26) 1,2,4-Trichlorobenzene	5.534	180	120650	20.010	ug/ml	98
35) Naphthalene	5.596	128	381308	19.885	ug/ml	100
36) Benzoic Acid	5.400	105	77155	16.758	ug/ml	96
37) 4-Chloroaniline	5.677	65	49648	19.684	ug/ml	88
38) Hexachlorobutadiene	5.751	225	71144	19.785	ug/ml	99
39) p-Chloro-m-cresol	6.180	107	106791	19.385	ug/ml	99
40) 2-Methylnaphthalene	6.280	142	256461	19.832	ug/ml	98
41) 1-Methylnaphthalene	6.370	115	88747	19.578	ug/ml	87
42) Hexachlorocyclopentadiene	6.447	237	80645	18.788	ug/ml	99
43) 2,4,6-Trichlorophenol	6.569	196	77466	19.336	ug/ml	98
44) 2,4,5-Trichlorophenol	6.597	196	79076	18.735	ug/ml	96
46) 2-Chloronaphthalene	6.743	162	238915	19.421	ug/ml	99
47) 2-Nitroaniline	6.861	138	79006	19.196	ug/ml	97
48) 1,4-Dinitrobenzene	6.998	168	33365	18.293	ug/ml	98
49) 1,3-Dinitrobenzene	7.069	168	38831	18.116	ug/ml	98
50) Dimethyl phthalate	7.069	163	284191	19.304	ug/ml	99
51) Acenaphthylene	7.134	152	390024	19.670	ug/ml	100
52) 2,6-Dinitrotoluene	7.106	165	62568	19.682	ug/ml	96
53) 1,2-Dinitrobenzene	7.147	168	25213	18.339	ug/ml	100
63) 3-Nitroaniline	7.259	138	71203	19.448	ug/ml#	94
64) Acenaphthene	7.308	154	221624	20.027	ug/ml	99
65) 2,4-Dinitrophenol	7.361	184	27735	16.708	ug/ml	97
66) Dibenzofuran	7.476	168	350568	19.951	ug/ml	97
67) 2,4-Dinitrotoluene	7.492	165	82125	18.892	ug/ml	99
68) 4-Nitrophenol	7.455	65	54430	18.350	ug/ml	83
69) 2,3,5,6-Tetrachlorophenol	7.570	232	69452	18.710	ug/ml	99
70) 2,3,4,6-Tetrachlorophenol	7.613	232	72666	19.532	ug/ml	98
71) Diethyl phthalate	7.759	149	298412	19.453	ug/ml	99
72) Fluorene	7.806	166	270433	19.592	ug/ml	98
73) 4-Chlorophenyl phenyl ...	7.834	204	131285	19.698	ug/ml	99

Data Path : I:\8270\SV109\181003nical\
Data File : ABNL6.D
Acq On : 3 Oct 2018 11:25 pm
Operator : sv109:cb
Sample : IL5,32,,ABNL20 Lot# 7579
Misc : WG1164344,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 04 16:03:48 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 08:57:06 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\181003nical\ABNL7.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74)	4-Nitroaniline	7.843	138	69422	18.619	ug/ml	94
75)	4,6-Dinitro-o-cresol	7.880	198	40109	17.941	ug/ml	99
76)	NDPA/DPA	7.949	169	230024	19.379	ug/ml	99
77)	Azobenzene	7.983	77	286252	19.728	ug/ml	99
79)	4-Bromophenyl phenyl e...	8.300	248	77748	19.398	ug/ml	99
80)	Hexachlorobenzene	8.340	284	98694	19.855	ug/ml	98
81)	Pentachlorophenol	8.539	266	52720	18.130	ug/ml	99
88)	Phenanthrene	8.726	178	411980	20.051	ug/ml	100
89)	Anthracene	8.772	178	414765	19.647	ug/ml	99
90)	Carbazole	8.946	167	387551	19.641	ug/ml	100
91)	Di-n-butylphthalate	9.354	149	492988	19.287	ug/ml	99
92)	Fluoranthene	9.873	202	440257	19.719	ug/ml	98
93)	Benzidine	10.037	184	290259	19.943	ug/ml	98
94)	Pyrene	10.084	202	466407	19.800	ug/ml	99
96)	Butyl benzyl phthalate	10.839	149	210979	18.660	ug/ml	97
104)	Benzo(a)anthracene	11.396	228	456184	20.078	ug/ml	100
105)	3,3'-Dichlorobenzidine	11.411	252	187813	19.480	ug/ml	99
106)	Chrysene	11.439	228	443185	20.806	ug/ml	99
107)	Bis(2-ethylhexyl)phtha...	11.591	149	321224	19.277	ug/ml	99
108)	Di-n-octylphthalate	12.505	149	526591	18.901	ug/ml	99
109)	Benzo(b)fluoranthene	12.838	252	415193	19.412	ug/ml	98
110)	Benzo(k)fluoranthene	12.878	252	470875M1	21.079	ug/ml	
111)	Benzo(a)pyrene	13.292	252	418158	19.589	ug/ml	98
113)	Indeno(1,2,3-cd)pyrene	14.914	276	383480	18.690	ug/ml	96
114)	Dibenzo(a,h)anthracene	14.973	278	397224	18.388	ug/ml	97
115)	Benzo(ghi)perylene	15.271	276	424281	19.184	ug/ml	97

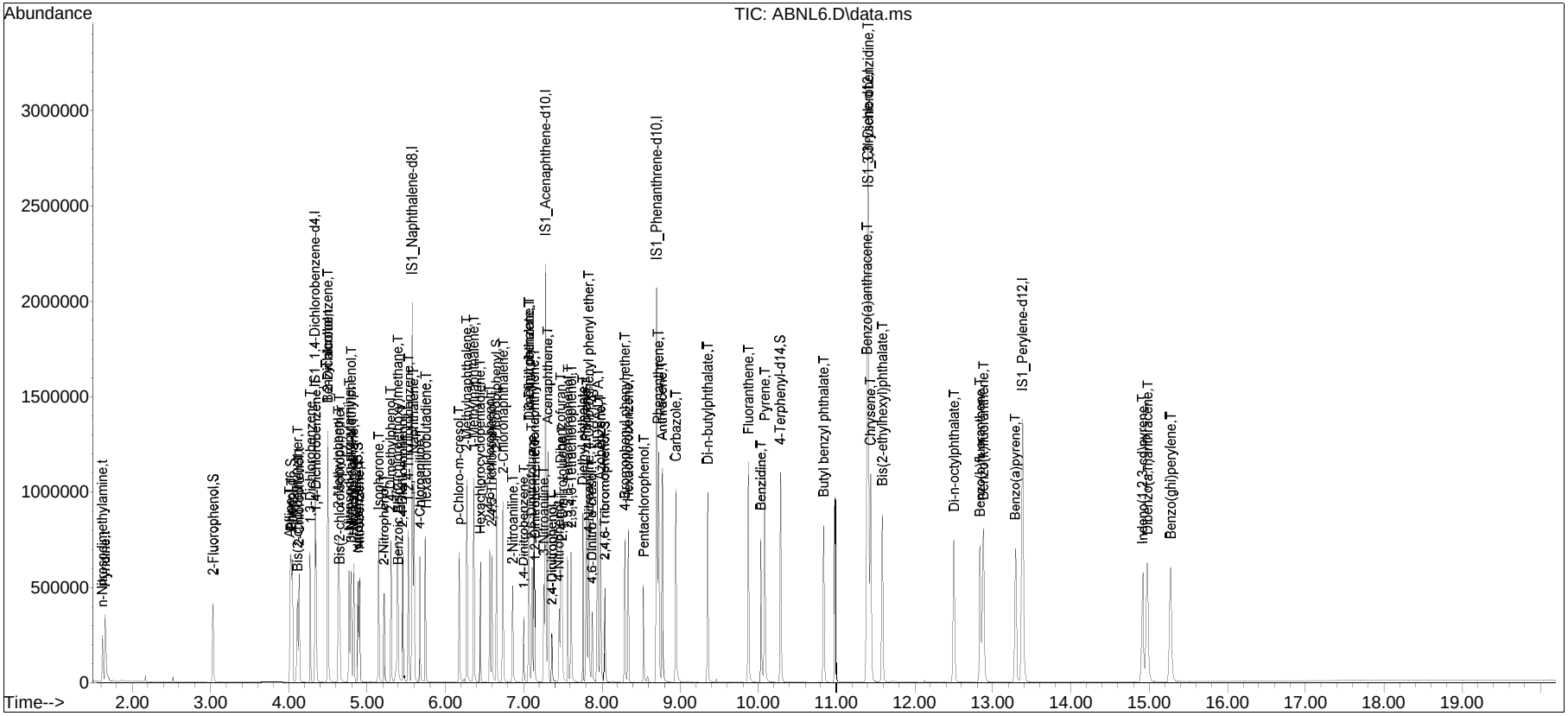
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : ABNL6.D
Acq On : 3 Oct 2018 11:25 pm
Operator : sv109:cb
Sample : IL5,32,,ABNL20 Lot# 7579
Misc : WG1164344,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 04 16:03:48 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 08:57:06 2018
Response via : Initial Calibration

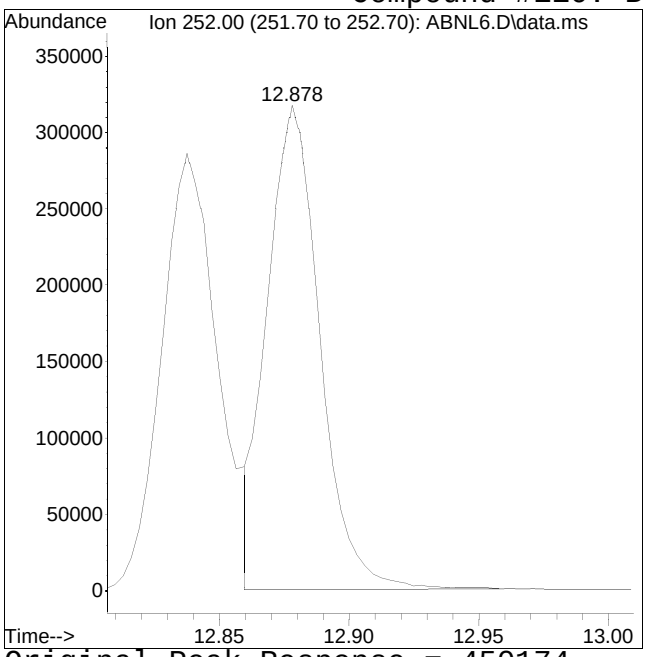
Sub List : ABNical - ABN ical sublistcal\ABNL7.D•

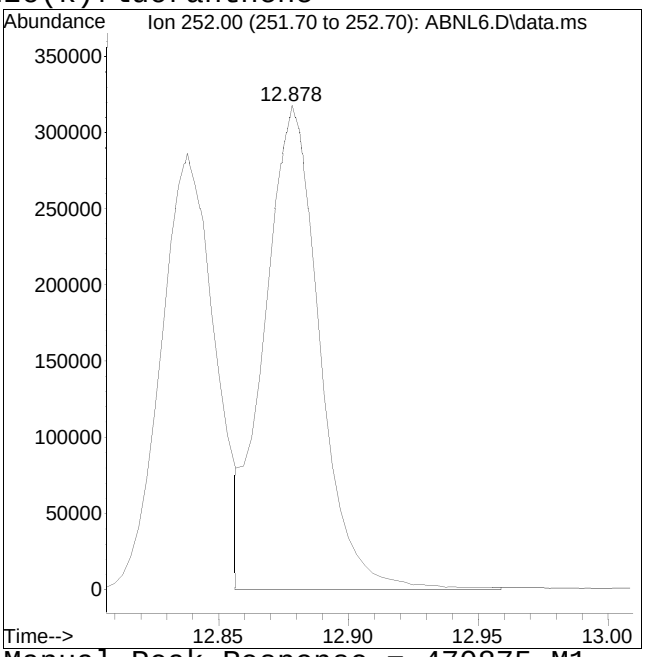


Manual Integration Report

Data Path : I:\8270\SV109\181003nical\QMethod : FS1801003nSV109.m
Data File : ABNL6.D Operator : sv109:cb
Date Inj'd : 10/3/2018 11:25 pm Instrument : SV109
Sample : IL5,32,,ABNL20 Lot# 7579 Quant Date : 10/4/2018 8:59 am

Compound #110: Benzo(k)fluoranthene





Original Peak Response = 450174 Manual Peak Response = 470875 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : ABNL5.D
Acq On : 3 Oct 2018 11:50 pm
Operator : sv109:cb
Sample : IL6,32,,ABNL10 Lot# 7578
Misc : WG1164344,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 04 09:38:34 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 09:38:26 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\181003nical\ABNL7.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.334	152	184155	40.000	ug/ml	0.00
Standard Area 1 = 177393			Recovery = 103.81%			
34) IS1_Naphthalene-d8	5.577	136	754842	40.000	ug/ml	0.00
Standard Area 1 = 728713			Recovery = 103.59%			
62) IS1_Acenaphthene-d10	7.277	164	365344	40.000	ug/ml	0.00
Standard Area 1 = 367597			Recovery = 99.39%			
87) IS1_Phenanthrene-d10	8.701	188	738959	40.000	ug/ml	0.00
Standard Area 1 = 730814			Recovery = 101.11%			
103) IS1_Chrysene-d12	11.402	240	710120	40.000	ug/ml	0.00
Standard Area 1 = 764672			Recovery = 92.87%			
112) IS1_Perylene-d12	13.375	264	722307	40.000	ug/ml	0.00
Standard Area 1 = 738756			Recovery = 97.77%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.032	112	56399	9.911	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 130		Recovery = 19.82%#			
7) Phenol-d6	4.023	99	68682	9.710	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 130		Recovery = 19.42%#			
19) Nitrobenzene-d5	4.881	82	65429	9.833	ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery = 39.33%#			
45) 2-Fluorobiphenyl	6.652	172	140878	9.694	ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery = 38.78%#			
78) 2,4,6-Tribromophenol	8.036	330	22841	9.452	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 130		Recovery = 18.90%#			
95) 4-Terphenyl-d14	10.280	244	163987	9.446	ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery = 37.78%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	1.624	74	37915	9.894	ug/ml	90
3) Pyridine	1.658	79	66081	10.008	ug/ml	95
5) Aniline	4.014	93	92799	9.769	ug/ml#	62
6) 2-Chlorophenol	4.126	128	64065	9.756	ug/ml	98
8) Phenol	4.035	94	73755	9.681	ug/ml#	62
9) Bis(2-chloroethyl)ether	4.104	93	59739	9.714	ug/ml	94
10) 1,3-Dichlorobenzene	4.275	146	72609	9.829	ug/ml	99
11) 1,4-Dichlorobenzene	4.349	146	74695	9.837	ug/ml	98
12) 1,2-Dichlorobenzene	4.495	146	71494	9.733	ug/ml	99
13) Benzyl alcohol	4.495	79	48905	9.587	ug/ml	96
14) Bis(2-chloroisopropyl)...	4.645	45	100308	9.696	ug/ml	93

Data Path : I:\8270\SV109\181003nical\
Data File : ABNL5.D
Acq On : 3 Oct 2018 11:50 pm
Operator : sv109:cb
Sample : IL6,32,,ABNL10 Lot# 7578
Misc : WG1164344,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 04 09:38:34 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 09:38:26 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\181003nical\ABNL7.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	4.632	108	56702	9.868	ug/ml	95
16) Hexachloroethane	4.825	117	29801	9.797	ug/ml	98
17) n-Nitrosodi-n-propylamine	4.769	70	43488	9.736	ug/ml	98
18) 3-Methylphenol/4-Methy...	4.791	108	57050	9.528	ug/ml	97
20) Nitrobenzene	4.900	77	66765	9.826	ug/ml	98
21) Isophorone	5.148	82	118021	9.711	ug/ml	98
22) 2-Nitrophenol	5.220	139	31147	9.741	ug/ml	95
23) 2,4-Dimethylphenol	5.307	107	56076	9.649	ug/ml	99
24) Bis(2-chloroethoxy)met...	5.394	93	76028	9.678	ug/ml	97
25) 2,4-Dichlorophenol	5.459	162	52682	9.715	ug/ml	98
26) 1,2,4-Trichlorobenzene	5.534	180	60678	9.598	ug/ml	98
35) Naphthalene	5.596	128	191550	9.734	ug/ml	99
36) Benzoic Acid	5.381	105	31103	10.652	ug/ml	94
37) 4-Chloroaniline	5.673	65	24449	9.894	ug/ml	90
38) Hexachlorobutadiene	5.748	225	35975	9.818	ug/ml	99
39) p-Chloro-m-cresol	6.180	107	50473	9.561	ug/ml	98
40) 2-Methylnaphthalene	6.276	142	126429	9.659	ug/ml	97
41) 1-Methylnaphthalene	6.370	115	45198	9.780	ug/ml	84
42) Hexachlorocyclopentadiene	6.447	237	38235	8.801	ug/ml	99
43) 2,4,6-Trichlorophenol	6.569	196	36907	9.695	ug/ml	99
44) 2,4,5-Trichlorophenol	6.597	196	39841	9.744	ug/ml	99
46) 2-Chloronaphthalene	6.740	162	120685	9.803	ug/ml	100
47) 2-Nitroaniline	6.858	138	36820	9.459	ug/ml	95
48) 1,4-Dinitrobenzene	6.997	168	15609	8.742	ug/ml	94
49) 1,3-Dinitrobenzene	7.066	168	18939	9.047	ug/ml	97
50) Dimethyl phthalate	7.066	163	139658	9.583	ug/ml	100
51) Acenaphthylene	7.134	152	191970	9.687	ug/ml	100
52) 2,6-Dinitrotoluene	7.106	165	30282	9.994	ug/ml	94
53) 1,2-Dinitrobenzene	7.144	168	13018	9.577	ug/ml	89
63) 3-Nitroaniline	7.255	138	33072	9.804	ug/ml	88
64) Acenaphthene	7.305	154	109468	9.799	ug/ml	98
65) 2,4-Dinitrophenol	7.358	184	11154	9.460	ug/ml	98
66) Dibenzofuran	7.476	168	173912	9.924	ug/ml	99
67) 2,4-Dinitrotoluene	7.489	165	38079	9.692	ug/ml	94
68) 4-Nitrophenol	7.454	65	25443	9.066	ug/ml	85
69) 2,3,5,6-Tetrachlorophenol	7.569	232	33161	9.784	ug/ml	98
70) 2,3,4,6-Tetrachlorophenol	7.610	232	35809	9.971	ug/ml	97
71) Diethyl phthalate	7.756	149	144398	9.828	ug/ml	99
72) Fluorene	7.806	166	133371	9.850	ug/ml	99
73) 4-Chlorophenyl phenyl ...	7.830	204	65023	9.929	ug/ml	99

Data Path : I:\8270\SV109\181003nical\
Data File : ABNL5.D
Acq On : 3 Oct 2018 11:50 pm
Operator : sv109:cb
Sample : IL6,32,,ABNL10 Lot# 7578
Misc : WG1164344,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 04 09:38:34 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 09:38:26 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\181003nical\ABNL7.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74)	4-Nitroaniline	7.840	138	32374	9.684	ug/ml	94
75)	4,6-Dinitro-o-cresol	7.877	198	17012	9.392	ug/ml	98
76)	NDPA/DPA	7.949	169	113548	9.890	ug/ml	99
77)	Azobenzene	7.980	77	139648	9.983	ug/ml	99
79)	4-Bromophenyl phenyl e...	8.297	248	38666	9.676	ug/ml	99
80)	Hexachlorobenzene	8.337	284	48047	9.700	ug/ml	98
81)	Pentachlorophenol	8.536	266	22193	8.902	ug/ml	96
88)	Phenanthrene	8.723	178	199871	9.573	ug/ml	99
89)	Anthracene	8.769	178	202999	9.797	ug/ml	99
90)	Carbazole	8.943	167	186841	9.696	ug/ml	99
91)	Di-n-butylphthalate	9.350	149	228290	9.487	ug/ml	99
92)	Fluoranthene	9.869	202	208460	9.438	ug/ml	98
93)	Benzidine	10.034	184	133031	9.596	ug/ml	98
94)	Pyrene	10.081	202	224327	9.662	ug/ml	99
96)	Butyl benzyl phthalate	10.833	149	96991	9.271	ug/ml	99
104)	Benzo(a)anthracene	11.392	228	212871	9.771	ug/ml	99
105)	3,3'-Dichlorobenzidine	11.405	252	86413	10.107	ug/ml	97
106)	Chrysene	11.433	228	208244	9.967	ug/ml	98
107)	Bis(2-ethylhexyl)phtha...	11.588	149	144126	10.146	ug/ml	99
108)	Di-n-octylphthalate	12.499	149	229654	9.801	ug/ml	99
109)	Benzo(b)fluoranthene	12.831	252	188821	9.599	ug/ml	97
110)	Benzo(k)fluoranthene	12.872	252	215393	9.990	ug/ml	98
111)	Benzo(a)pyrene	13.285	252	192586	9.706	ug/ml	98
113)	Indeno(1,2,3-cd)pyrene	14.905	276	170867	9.289	ug/ml	97
114)	Dibenzo(a,h)anthracene	14.960	278	179401	9.271	ug/ml	97
115)	Benzo(ghi)perylene	15.259	276	192264	9.342	ug/ml	97

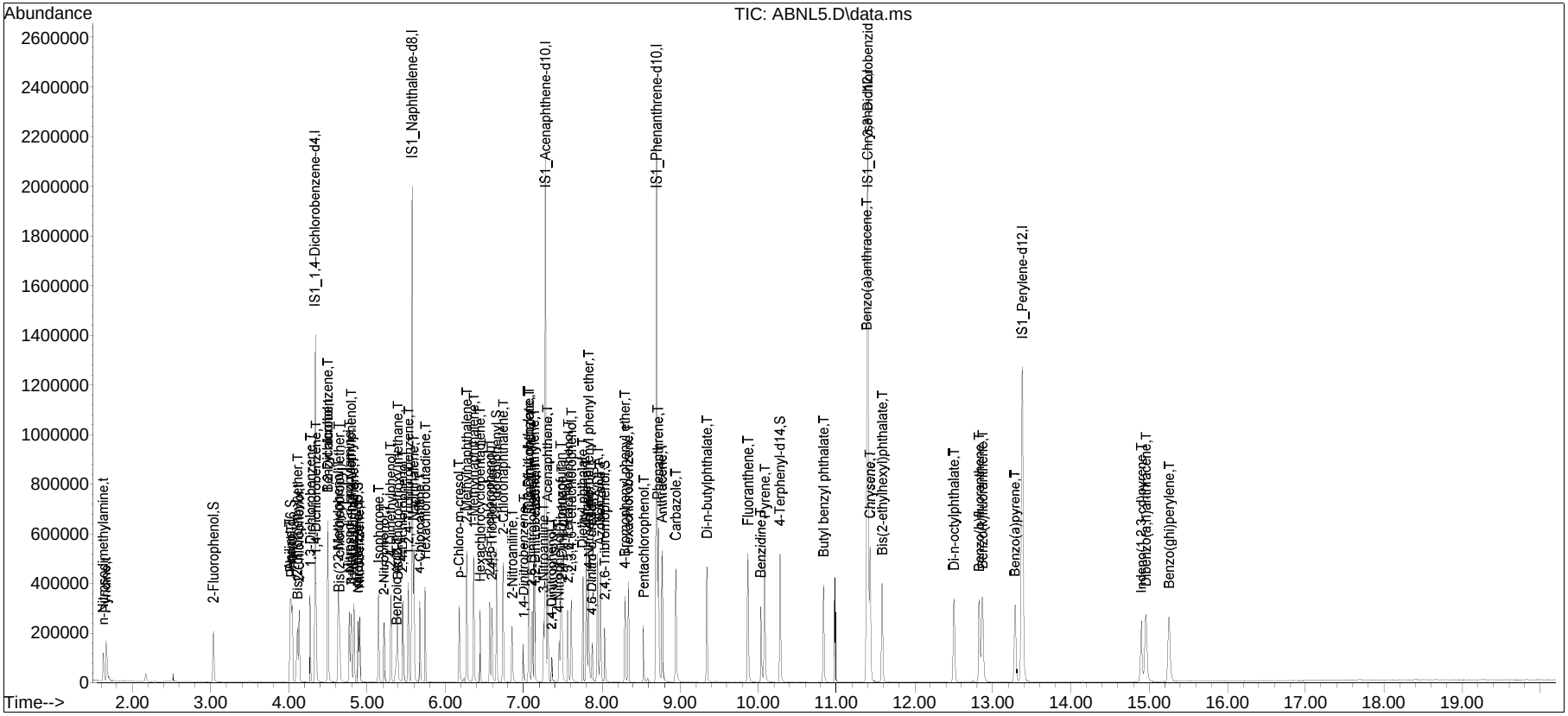
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : ABNL5.D
Acq On : 3 Oct 2018 11:50 pm
Operator : sv109:cb
Sample : IL6,32,,ABNL10 Lot# 7578
Misc : WG1164344,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 04 09:38:34 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 09:38:26 2018
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublistcal\ABNL7.D•



Manual Integration Report

Data Path	: I:\8270\SV109\181003nical\	QMethod	: FS1801003nSV109.m
Data File	: ABNL5.D	Operator	: sv109:cb
Date Inj'd	: 10/3/2018 11:50 pm	Instrument	: SV109
Sample	: IL6,32,,ABNL10 Lot# 7578	Quant Date	: 10/4/2018 9:38 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : ABNL4.D
Acq On : 4 Oct 2018 12:15 am
Operator : sv109:cb
Sample : IL7,32,,ABNL5 Lot# 7577
Misc : WG1164344,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 04 09:37:17 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 09:37:09 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\181003nical\ABNL7.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	4.334	152	187872	40.000 ug/ml	0.00
Standard Area 1 = 177393			Recovery = 105.91%		
34) IS1_Naphthalene-d8	5.577	136	774293	40.000 ug/ml	0.00
Standard Area 1 = 728713			Recovery = 106.25%		
62) IS1_Acenaphthene-d10	7.277	164	381181	40.000 ug/ml	0.00
Standard Area 1 = 367597			Recovery = 103.70%		
87) IS1_Phenanthrene-d10	8.701	188	750910	40.000 ug/ml	0.00
Standard Area 1 = 730814			Recovery = 102.75%		
103) IS1_Chrysene-d12	11.402	240	741897	40.000 ug/ml	0.00
Standard Area 1 = 764672			Recovery = 97.02%		
112) IS1_Perylene-d12	13.375	264	750584	40.000 ug/ml	0.00
Standard Area 1 = 738756			Recovery = 101.60%		
System Monitoring Compounds					
4) 2-Fluorophenol	3.032	112	28020	4.826 ug/ml	0.00
Spiked Amount 50.000	Range 30 - 130		Recovery = 9.65%#		
7) Phenol-d6	4.023	99	35249	4.885 ug/ml	0.00
Spiked Amount 50.000	Range 30 - 130		Recovery = 9.77%#		
19) Nitrobenzene-d5	4.884	82	33395	4.919 ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery = 19.68%#		
45) 2-Fluorobiphenyl	6.653	172	73691	4.943 ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery = 19.77%#		
78) 2,4,6-Tribromophenol	8.039	330	10949	4.342 ug/ml	0.00
Spiked Amount 50.000	Range 30 - 130		Recovery = 8.68%#		
95) 4-Terphenyl-d14	10.280	244	83076	4.709 ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery = 18.84%#		
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	1.624	74	19241	4.922 ug/ml	84
3) Pyridine	1.664	79	33346	4.950 ug/ml	92
5) Aniline	4.014	93	47597	4.912 ug/ml#	65
6) 2-Chlorophenol	4.126	128	32049	4.784 ug/ml	96
8) Phenol	4.036	94	37473	4.822 ug/ml#	60
9) Bis(2-chloroethyl)ether	4.104	93	31566	5.031 ug/ml	95
10) 1,3-Dichlorobenzene	4.275	146	37580	4.987 ug/ml	99
11) 1,4-Dichlorobenzene	4.350	146	38521	4.973 ug/ml	93
12) 1,2-Dichlorobenzene	4.496	146	37254	4.971 ug/ml	99
13) Benzyl alcohol	4.496	79	25187	4.840 ug/ml	95
14) Bis(2-chloroisopropyl)...	4.648	45	53651	5.083 ug/ml	95

Data Path : I:\8270\SV109\181003nical\
Data File : ABNL4.D
Acq On : 4 Oct 2018 12:15 am
Operator : sv109:cb
Sample : IL7,32,,ABNL5 Lot# 7577
Misc : WG1164344,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 04 09:37:17 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 09:37:09 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\181003nical\ABNL7.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	4.632	108	27950	4.768	ug/ml	97
16) Hexachloroethane	4.825	117	15435	4.974	ug/ml	99
17) n-Nitrosodi-n-propylamine	4.769	70	21749	4.773	ug/ml	98
18) 3-Methylphenol/4-Methy...	4.791	108	29889	4.893	ug/ml	97
20) Nitrobenzene	4.903	77	34243	4.940	ug/ml	95
21) Isophorone	5.148	82	60324	4.865	ug/ml	98
22) 2-Nitrophenol	5.220	139	14810	4.540	ug/ml	90
23) 2,4-Dimethylphenol	5.304	107	28477	4.803	ug/ml	94
24) Bis(2-chloroethoxy)met...	5.391	93	38583	4.814	ug/ml#	97
25) 2,4-Dichlorophenol	5.459	162	26128	4.723	ug/ml	97
26) 1,2,4-Trichlorobenzene	5.534	180	31577	4.896	ug/ml	100
35) Naphthalene	5.596	128	100569	4.982	ug/ml	99
36) Benzoic Acid	5.369	105	12984	7.277	ug/ml	92
37) 4-Chloroaniline	5.674	65	12112	4.779	ug/ml	95
38) Hexachlorobutadiene	5.748	225	18461	4.912	ug/ml	98
39) p-Chloro-m-cresol	6.180	107	25705	4.747	ug/ml	97
40) 2-Methylnaphthalene	6.277	142	65015	4.842	ug/ml	97
41) 1-Methylnaphthalene	6.367	115	22552	4.757	ug/ml	86
42) Hexachlorocyclopentadiene	6.447	237	18884	4.238	ug/ml	100
43) 2,4,6-Trichlorophenol	6.569	196	17864	4.575	ug/ml	99
44) 2,4,5-Trichlorophenol	6.597	196	20452M4	4.876	ug/ml	
46) 2-Chloronaphthalene	6.740	162	60602	4.799	ug/ml	98
47) 2-Nitroaniline	6.858	138	17638	4.417	ug/ml	92
48) 1,4-Dinitrobenzene	6.995	168	7085	3.868	ug/ml	93
49) 1,3-Dinitrobenzene	7.066	168	8786	4.092	ug/ml	94
50) Dimethyl phthalate	7.063	163	71740	4.799	ug/ml	99
51) Acenaphthylene	7.134	152	98353	4.839	ug/ml	99
52) 2,6-Dinitrotoluene	7.103	165	14516	4.670	ug/ml	90
53) 1,2-Dinitrobenzene	7.144	168	6496	4.659	ug/ml	96
63) 3-Nitroaniline	7.256	138	16430	4.668	ug/ml#	87
64) Acenaphthene	7.305	154	56060	4.810	ug/ml	98
65) 2,4-Dinitrophenol	7.358	184	4668	5.933	ug/ml	94
66) Dibenzofuran	7.476	168	88778	4.856	ug/ml	98
67) 2,4-Dinitrotoluene	7.489	165	18756	4.575	ug/ml	93
68) 4-Nitrophenol	7.451	65	11868	4.053	ug/ml#	77
69) 2,3,5,6-Tetrachlorophenol	7.570	232	16592	4.692	ug/ml	98
70) 2,3,4,6-Tetrachlorophenol	7.610	232	17446	4.656	ug/ml	98
71) Diethyl phthalate	7.753	149	73282	4.781	ug/ml	99
72) Fluorene	7.806	166	67927	4.808	ug/ml	98
73) 4-Chlorophenyl phenyl ...	7.831	204	32944	4.822	ug/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : ABNL4.D
Acq On : 4 Oct 2018 12:15 am
Operator : sv109:cb
Sample : IL7,32,,ABNL5 Lot# 7577
Misc : WG1164344,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 04 09:37:17 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 09:37:09 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\181003nical\ABNL7.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74)	4-Nitroaniline	7.837	138	16445	4.715	ug/ml	93
75)	4,6-Dinitro-o-cresol	7.877	198	7340	5.217	ug/ml	95
76)	NDPA/DPA	7.949	169	57570	4.806	ug/ml	98
77)	Azobenzene	7.980	77	70035	4.799	ug/ml	100
79)	4-Bromophenyl phenyl e...	8.297	248	19607	4.703	ug/ml	99
80)	Hexachlorobenzene	8.337	284	24565	4.753	ug/ml	99
81)	Pentachlorophenol	8.536	266	10626	5.152	ug/ml	98
88)	Phenanthrene	8.723	178	103140	4.862	ug/ml	98
89)	Anthracene	8.769	178	100538	4.775	ug/ml	98
90)	Carbazole	8.943	167	94910	4.847	ug/ml	99
91)	Di-n-butylphthalate	9.347	149	112583	4.604	ug/ml	99
92)	Fluoranthene	9.870	202	107444	4.787	ug/ml	97
93)	Benzidine	10.034	184	62977	4.471	ug/ml	98
94)	Pyrene	10.081	202	115757	4.906	ug/ml	100
96)	Butyl benzyl phthalate	10.833	149	46493	4.374	ug/ml	97
104)	Benzo(a)anthracene	11.389	228	111147	4.883	ug/ml	99
105)	3,3'-Dichlorobenzidine	11.405	252	43471	4.867	ug/ml	96
106)	Chrysene	11.430	228	113407	5.196	ug/ml	99
107)	Bis(2-ethylhexyl)phtha...	11.588	149	70327	4.739	ug/ml	98
108)	Di-n-octylphthalate	12.499	149	107142	4.377	ug/ml	98
109)	Benzo(b)fluoranthene	12.832	252	98804	4.808	ug/ml	97
110)	Benzo(k)fluoranthene	12.872	252	111215	4.937	ug/ml	97
111)	Benzo(a)pyrene	13.285	252	100868	4.866	ug/ml	98
113)	Indeno(1,2,3-cd)pyrene	14.902	276	86898	4.546	ug/ml	97
114)	Dibenzo(a,h)anthracene	14.961	278	91310	4.541	ug/ml	98
115)	Benzo(ghi)perylene	15.256	276	100427	4.696	ug/ml	96

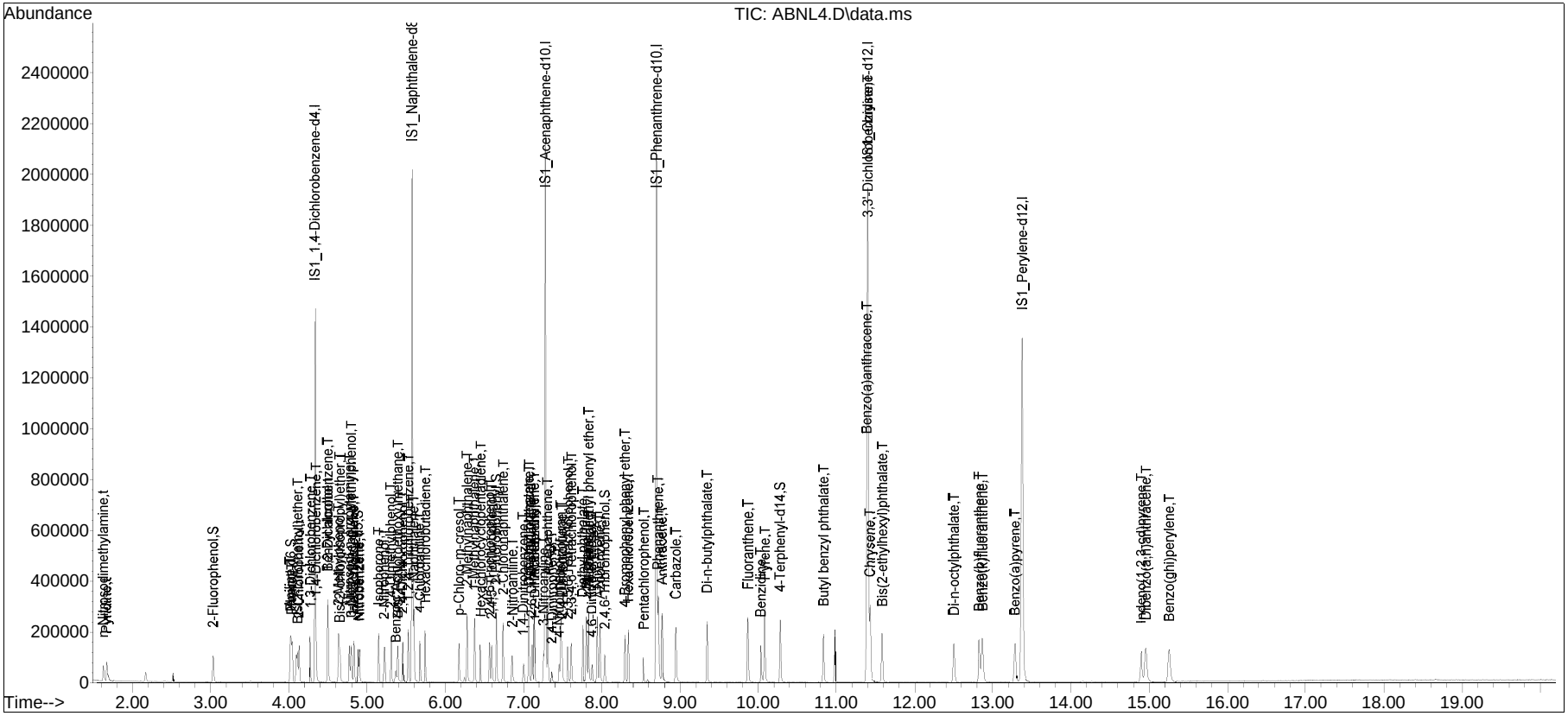
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : ABNL4.D
Acq On : 4 Oct 2018 12:15 am
Operator : sv109:cb
Sample : IL7,32,,ABNL5 Lot# 7577
Misc : WG1164344,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 04 09:37:17 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 09:37:09 2018
Response via : Initial Calibration

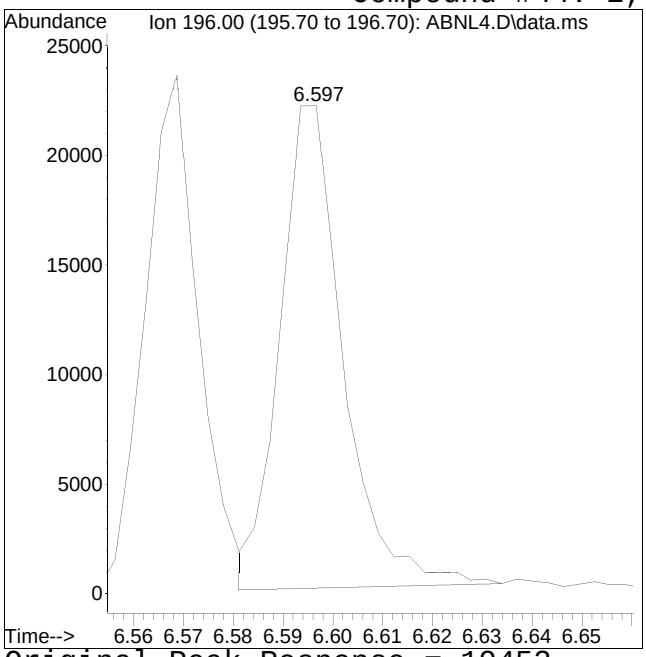
Sub List : ABNical - ABN ical sublistcal\ABNL7.D•



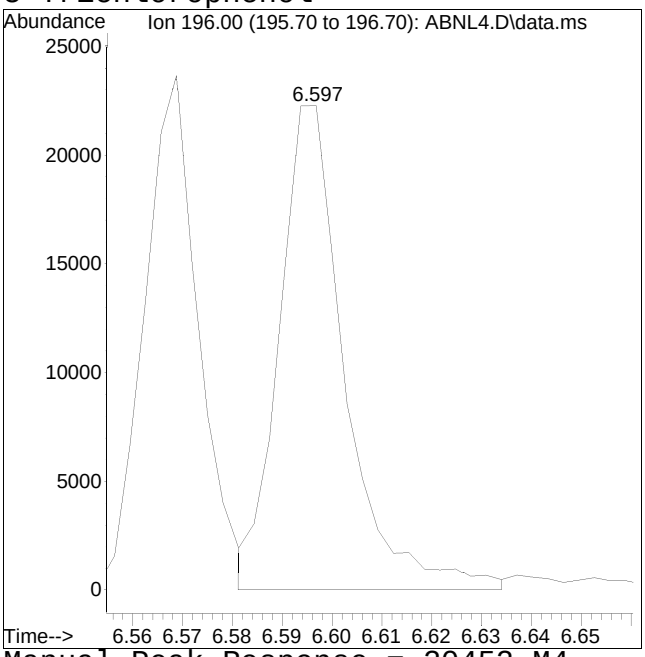
Manual Integration Report

Data Path : I:\8270\SV109\181003nical\QMethod : FS1801003nSV109.m
Data File : ABNL4.D Operator : sv109:cb
Date Inj'd : 10/4/2018 12:15 am Instrument : SV109
Sample : IL7,32,,ABNL5 Lot# 7577 Quant Date : 10/4/2018 9:37 am

Compound #44: 2,4,5-Trichlorophenol



Original Peak Response = 19452



Manual Peak Response = 20452 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : ABNL3.D
Acq On : 4 Oct 2018 12:40 am
Operator : sv109:cb
Sample : IL8,32,,ABNL3 Lot# 7576
Misc : WG1164344,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 04 16:01:35 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 09:38:09 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\181003nical\ABNL7.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.334	152	187790	40.000	ug/ml	0.00
Standard Area 1 = 177393			Recovery = 105.86%			
34) IS1_Naphthalene-d8	5.577	136	775340	40.000	ug/ml	0.00
Standard Area 1 = 728713			Recovery = 106.40%			
62) IS1_Acenaphthene-d10	7.277	164	386088	40.000	ug/ml	0.00
Standard Area 1 = 367597			Recovery = 105.03%			
87) IS1_Phenanthrene-d10	8.701	188	761958	40.000	ug/ml	0.00
Standard Area 1 = 730814			Recovery = 104.26%			
103) IS1_Chrysene-d12	11.402	240	757074	40.000	ug/ml	0.00
Standard Area 1 = 764672			Recovery = 99.01%			
112) IS1_Perylene-d12	13.375	264	787896	40.000	ug/ml	0.00
Standard Area 1 = 738756			Recovery = 106.65%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.032	112	16341	2.816	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 130		Recovery = 5.63%#			
7) Phenol-d6	4.023	99	20538	2.847	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 130		Recovery = 5.69%#			
19) Nitrobenzene-d5	4.884	82	19268	2.840	ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery = 11.36%#			
45) 2-Fluorobiphenyl	6.653	172	44279	2.966	ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery = 11.86%#			
78) 2,4,6-Tribromophenol	8.039	330	6269	2.455	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 130		Recovery = 4.91%#			
95) 4-Terphenyl-d14	10.283	244	49841	2.784	ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery = 11.14%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	1.627	74	11555	2.957	ug/ml	88
3) Pyridine	1.670	79	18992	2.821	ug/ml	93
5) Aniline	4.014	93	28582	2.951	ug/ml#	65
6) 2-Chlorophenol	4.126	128	19333	2.887	ug/ml	96
8) Phenol	4.035	94	22684	2.920	ug/ml#	58
9) Bis(2-chloroethyl)ether	4.104	93	18764	2.992	ug/ml	91
10) 1,3-Dichlorobenzene	4.275	146	22016	2.923	ug/ml	98
11) 1,4-Dichlorobenzene	4.349	146	22676M3	2.929	ug/ml	
12) 1,2-Dichlorobenzene	4.495	146	22345	2.983	ug/ml	97
13) Benzyl alcohol	4.499	79	14307	2.750	ug/ml	96
14) Bis(2-chloroisopropyl)...	4.648	45	31380	2.974	ug/ml	92

Data Path : I:\8270\SV109\181003nical\
Data File : ABNL3.D
Acq On : 4 Oct 2018 12:40 am
Operator : sv109:cb
Sample : IL8,32,,ABNL3 Lot# 7576
Misc : WG1164344,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 04 16:01:35 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 09:38:09 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\181003nical\ABNL7.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	4.632	108	16387	2.797	ug/ml	97
16) Hexachloroethane	4.825	117	9412	3.034	ug/ml	99
17) n-Nitrosodi-n-propylamine	4.769	70	13011	2.856	ug/ml	98
18) 3-Methylphenol/4-Methy...	4.791	108	17794	2.914	ug/ml	94
20) Nitrobenzene	4.903	77	20152	2.908	ug/ml	99
21) Isophorone	5.148	82	36190	2.920	ug/ml	98
22) 2-Nitrophenol	5.220	139	8388	2.572	ug/ml	91
23) 2,4-Dimethylphenol	5.307	107	16506	2.785	ug/ml	98
24) Bis(2-chloroethoxy)met...	5.394	93	23297	2.908	ug/ml#	93
25) 2,4-Dichlorophenol	5.459	162	15572	2.816	ug/ml	99
26) 1,2,4-Trichlorobenzene	5.534	180	18951	2.940	ug/ml	99
35) Naphthalene	5.596	128	59614	2.949	ug/ml	100
36) Benzoic Acid	5.363	105	5764	5.987	ug/ml#	87
37) 4-Chloroaniline	5.673	65	7207	2.840	ug/ml	89
38) Hexachlorobutadiene	5.751	225	10992	2.921	ug/ml	98
39) p-Chloro-m-cresol	6.180	107	15004	2.767	ug/ml	100
40) 2-Methylnaphthalene	6.276	142	38819	2.887	ug/ml	97
41) 1-Methylnaphthalene	6.370	115	14102	2.971	ug/ml	80
42) Hexachlorocyclopentadiene	6.447	237	10813	2.423	ug/ml	96
43) 2,4,6-Trichlorophenol	6.566	196	10231	2.616	ug/ml	98
44) 2,4,5-Trichlorophenol	6.597	196	11251	2.679	ug/ml	96
46) 2-Chloronaphthalene	6.740	162	36838	2.913	ug/ml	98
47) 2-Nitroaniline	6.858	138	10082	2.522	ug/ml	91
48) 1,4-Dinitrobenzene	6.994	168	3913	2.134	ug/ml	87
49) 1,3-Dinitrobenzene	7.069	168	5025	2.337	ug/ml	94
50) Dimethyl phthalate	7.066	163	42642	2.849	ug/ml	99
51) Acenaphthylene	7.134	152	58900	2.894	ug/ml	99
52) 2,6-Dinitrotoluene	7.103	165	8382	2.693	ug/ml	87
53) 1,2-Dinitrobenzene	7.144	168	3630	2.600	ug/ml	92
63) 3-Nitroaniline	7.255	138	9672	2.713	ug/ml#	88
64) Acenaphthene	7.305	154	34330	2.908	ug/ml	98
65) 2,4-Dinitrophenol	7.358	184	2048	4.594	ug/ml	91
66) Dibenzofuran	7.476	168	54437	2.940	ug/ml	97
67) 2,4-Dinitrotoluene	7.489	165	10198	2.456	ug/ml	91
68) 4-Nitrophenol	7.454	65	6328	2.134	ug/ml#	71
69) 2,3,5,6-Tetrachlorophenol	7.569	232	9241	2.580	ug/ml	99
70) 2,3,4,6-Tetrachlorophenol	7.610	232	10603	2.794	ug/ml	93
71) Diethyl phthalate	7.753	149	42521	2.739	ug/ml	98
72) Fluorene	7.806	166	40973	2.863	ug/ml	98
73) 4-Chlorophenyl phenyl ...	7.830	204	19717	2.849	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : ABNL3.D
Acq On : 4 Oct 2018 12:40 am
Operator : sv109:cb
Sample : IL8,32,,ABNL3 Lot# 7576
Misc : WG1164344,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 04 16:01:35 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 09:38:09 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\181003nical\ABNL7.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74)	4-Nitroaniline	7.837	138	8500	2.406	ug/ml	88
75)	4,6-Dinitro-o-cresol	7.877	198	3842	3.794	ug/ml	91
76)	NDPA/DPA	7.949	169	33923	2.796	ug/ml	99
77)	Azobenzene	7.980	77	41592	2.814	ug/ml	99
79)	4-Bromophenyl phenyl e...	8.297	248	11768	2.787	ug/ml	99
80)	Hexachlorobenzene	8.337	284	14446	2.760	ug/ml	99
81)	Pentachlorophenol	8.536	266	5641	3.638	ug/ml	96
88)	Phenanthrene	8.723	178	63637	2.956	ug/ml	99
89)	Anthracene	8.769	178	58711	2.748	ug/ml	97
90)	Carbazole	8.943	167	55721	2.804	ug/ml	99
91)	Di-n-butylphthalate	9.347	149	67078	2.703	ug/ml	100
92)	Fluoranthene	9.869	202	64151	2.817	ug/ml	97
93)	Benzidine	10.034	184	37420	2.618	ug/ml	99
94)	Pyrene	10.081	202	68973	2.881	ug/ml	99
96)	Butyl benzyl phthalate	10.833	149	26455	2.452	ug/ml	96
104)	Benzo(a)anthracene	11.392	228	69654	2.999	ug/ml	99
105)	3,3'-Dichlorobenzidine	11.408	252	24699	2.710	ug/ml#	96
106)	Chrysene	11.433	228	65629	2.946	ug/ml	97
107)	Bis(2-ethylhexyl)phtha...	11.588	149	39981	2.640	ug/ml	99
108)	Di-n-octylphthalate	12.499	149	60957	2.440	ug/ml#	98
109)	Benzo(b)fluoranthene	12.831	252	57001	2.718	ug/ml	98
110)	Benzo(k)fluoranthene	12.872	252	72501M1	3.154	ug/ml	
111)	Benzo(a)pyrene	13.288	252	60863	2.877	ug/ml	97
113)	Indeno(1,2,3-cd)pyrene	14.905	276	53141	2.649	ug/ml	96
114)	Dibenzo(a,h)anthracene	14.964	278	55129	2.612	ug/ml	99
115)	Benzo(ghi)perylene	15.259	276	61802	2.753	ug/ml	97

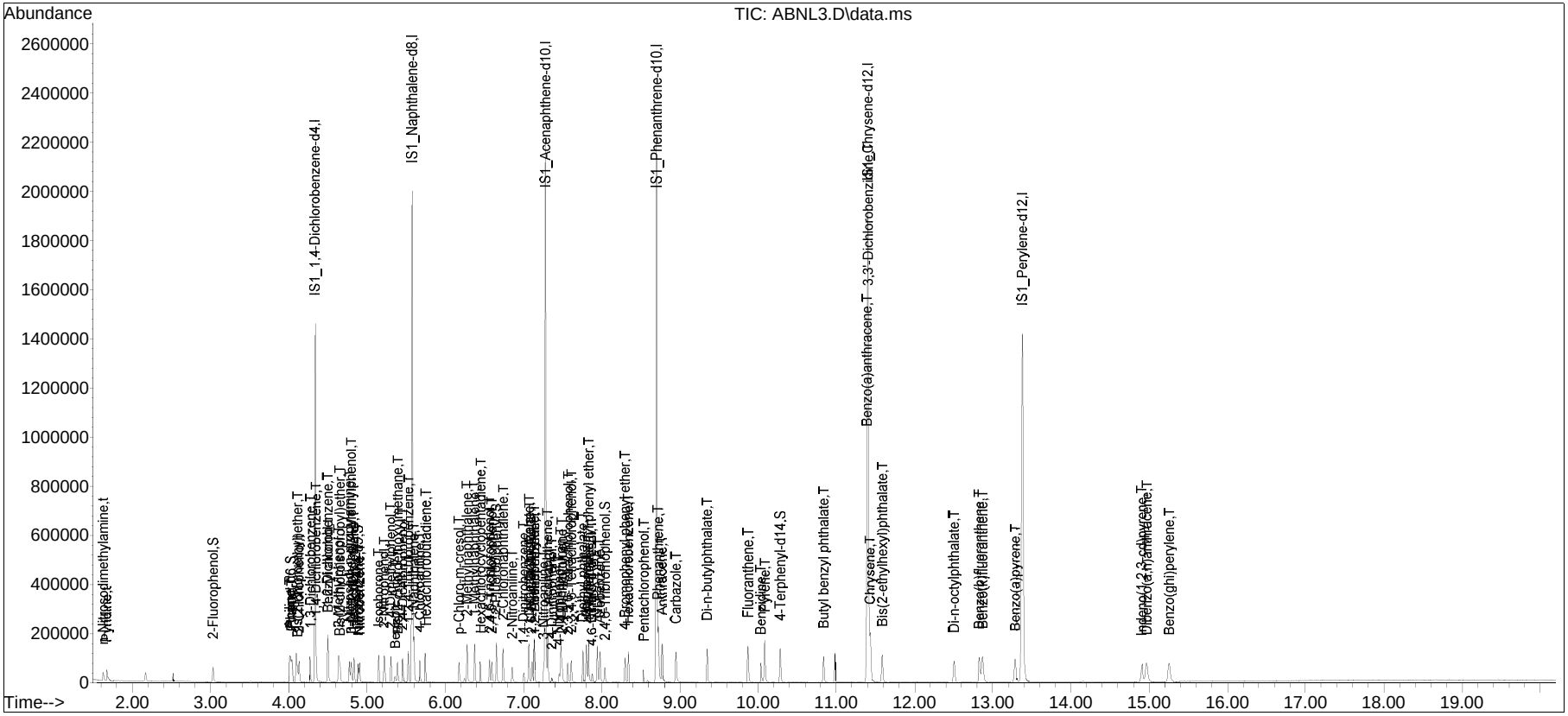
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : ABNL3.D
Acq On : 4 Oct 2018 12:40 am
Operator : sv109:cb
Sample : IL8,32,,ABNL3 Lot# 7576
Misc : WG1164344,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 04 16:01:35 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 09:38:09 2018
Response via : Initial Calibration

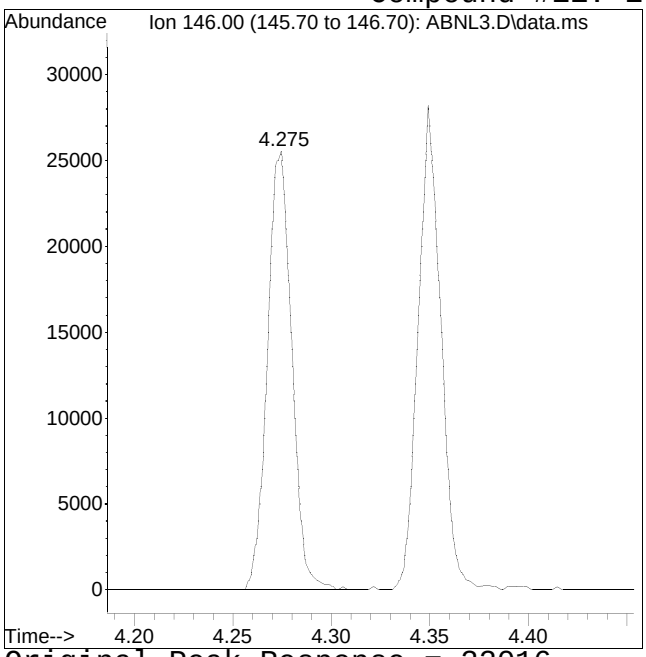
Sub List : ABNical - ABN ical sublistcal\ABNL7.D•

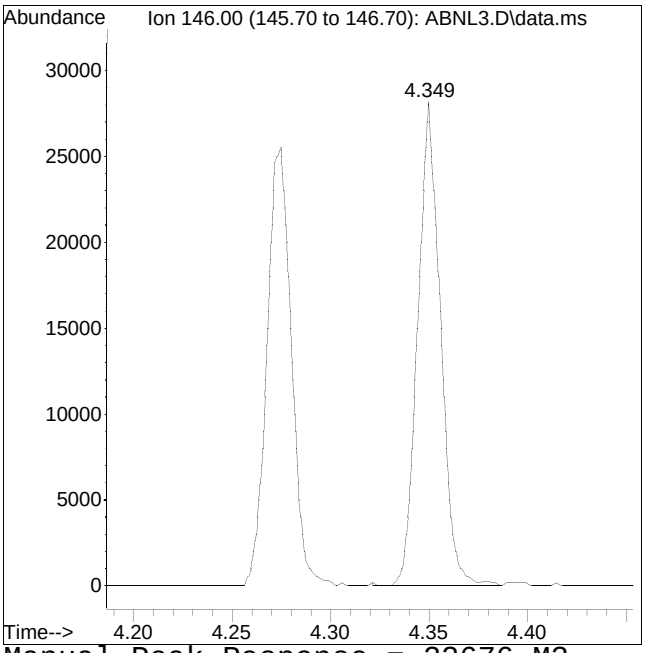


Manual Integration Report

Data Path : I:\8270\SV109\181003nical\QMethod : FS1801003nSV109.m
Data File : ABNL3.D Operator : sv109:cb
Date Inj'd : 10/4/2018 12:40 am Instrument : SV109
Sample : IL8,32,,ABNL3 Lot# 7576 Quant Date : 10/4/2018 9:38 am

Compound #11: 1,4-Dichlorobenzene





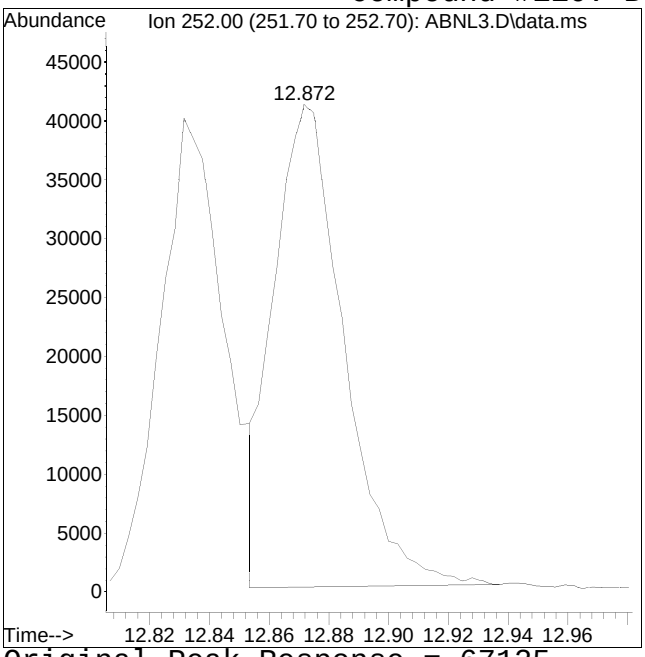
Original Peak Response = 22016 Manual Peak Response = 22676 M3

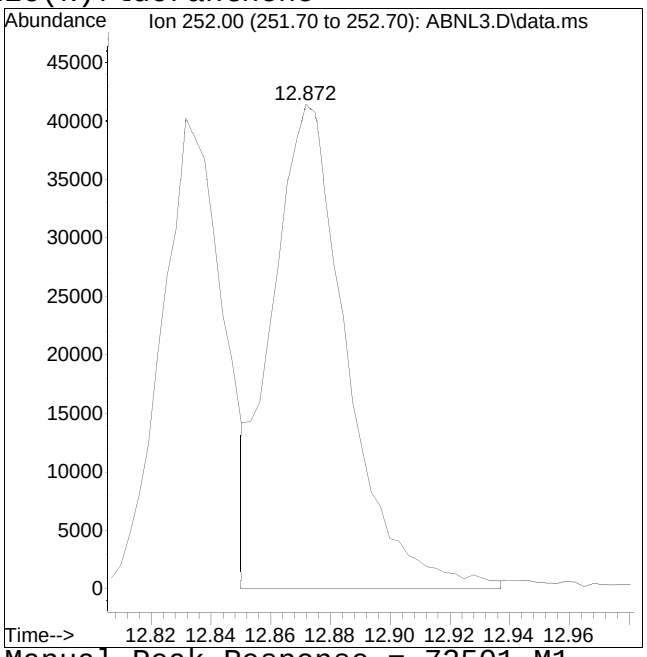
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV109\181003nical\QMethod : FS1801003nSV109.m
Data File : ABNL3.D Operator : sv109:cb
Date Inj'd : 10/4/2018 12:40 am Instrument : SV109
Sample : IL8,32,,ABNL3 Lot# 7576 Quant Date : 10/4/2018 9:38 am

Compound #110: Benzo(k)fluoranthene





Original Peak Response = 67125 Manual Peak Response = 72501 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : ABNL2.D
Acq On : 4 Oct 2018 1:06 am
Operator : sv109:cb
Sample : IL9,32,,ABNL2 Lot# 7575
Misc : WG1164344,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 04 09:23:41 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 08:57:06 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\181003nical\ABNL7.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.334	152	186381	40.000	ug/ml	0.00
Standard Area 1 = 177393			Recovery = 105.07%			
34) IS1_Naphthalene-d8	5.577	136	766986	40.000	ug/ml	0.00
Standard Area 1 = 728713			Recovery = 105.25%			
62) IS1_Acenaphthene-d10	7.277	164	375403	40.000	ug/ml	0.00
Standard Area 1 = 367597			Recovery = 102.12%			
87) IS1_Phenanthrene-d10	8.701	188	762227	40.000	ug/ml	0.00
Standard Area 1 = 730814			Recovery = 104.30%			
103) IS1_Chrysene-d12	11.402	240	734261	40.000	ug/ml	0.00
Standard Area 1 = 764672			Recovery = 96.02%			
112) IS1_Perylene-d12	13.375	264	760170	40.000	ug/ml	0.00
Standard Area 1 = 738756			Recovery = 102.90%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.032	112	10978	1.843	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 130		Recovery = 3.69%#			
7) Phenol-d6	4.023	99	13399	1.834	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 130		Recovery = 3.67%#			
19) Nitrobenzene-d5	4.884	82	13005	1.889	ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery = 7.56%#			
45) 2-Fluorobiphenyl	6.653	172	29364	1.964	ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery = 7.86%#			
78) 2,4,6-Tribromophenol	8.039	330	4034	1.525	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 130		Recovery = 3.05%#			
95) 4-Terphenyl-d14	10.283	244	32659	1.746	ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery = 6.98%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	1.624	74	7782	1.983	ug/ml#	87
3) Pyridine	1.673	79	13204M4	1.941	ug/ml	
5) Aniline	4.014	93	19135	1.978	ug/ml#	65
6) 2-Chlorophenol	4.126	128	13254	1.947	ug/ml	96
8) Phenol	4.036	94	14650	1.862	ug/ml#	61
9) Bis(2-chloroethyl)ether	4.104	93	12408	1.991	ug/ml	97
10) 1,3-Dichlorobenzene	4.275	146	14947	1.989	ug/ml	99
11) 1,4-Dichlorobenzene	4.349	146	16070M4	2.135	ug/ml	
12) 1,2-Dichlorobenzene	4.496	146	14711	2.006	ug/ml	97
13) Benzyl alcohol	4.496	79	9574	1.760	ug/ml	96
14) Bis(2-chloroisopropyl)...	4.648	45	21319	2.037	ug/ml	95

Data Path : I:\8270\SV109\181003nical\
Data File : ABNL2.D
Acq On : 4 Oct 2018 1:06 am
Operator : sv109:cb
Sample : IL9,32,,ABNL2 Lot# 7575
Misc : WG1164344,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 04 09:23:41 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 08:57:06 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\181003nical\ABNL7.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	4.632	108	10822	1.836	ug/ml	98
16) Hexachloroethane	4.825	117	6072	1.994	ug/ml	95
17) n-Nitrosodi-n-propylamine	4.769	70	8713	1.891	ug/ml	94
18) 3-Methylphenol/4-Methy...	4.794	108	11384	1.827	ug/ml	97
20) Nitrobenzene	4.903	77	13530	1.928	ug/ml	95
21) Isophorone	5.148	82	24536	1.956	ug/ml	99
22) 2-Nitrophenol	5.217	139	5713	1.618	ug/ml#	92
23) 2,4-Dimethylphenol	5.304	107	10573	1.711	ug/ml	99
24) Bis(2-chloroethoxy)met...	5.394	93	15580	1.923	ug/ml#	96
25) 2,4-Dichlorophenol	5.459	162	10023	1.751	ug/ml	98
26) 1,2,4-Trichlorobenzene	5.534	180	12772	2.016	ug/ml	99
35) Naphthalene	5.596	128	40481	2.029	ug/ml	99
36) Benzoic Acid	5.363	105	2828	0.590	ug/ml	97
37) 4-Chloroaniline	5.673	65	4758	1.813	ug/ml	87
38) Hexachlorobutadiene	5.748	225	7336	1.960	ug/ml	96
39) p-Chloro-m-cresol	6.180	107	9792	1.708	ug/ml	97
40) 2-Methylnaphthalene	6.276	142	25691	1.909	ug/ml	98
41) 1-Methylnaphthalene	6.370	115	9375	1.987	ug/ml	87
42) Hexachlorocyclopentadiene	6.447	237	7044	1.577	ug/ml#	97
43) 2,4,6-Trichlorophenol	6.569	196	6744	1.618	ug/ml	93
44) 2,4,5-Trichlorophenol	6.597	196	7465M4	1.700	ug/ml	
46) 2-Chloronaphthalene	6.740	162	24236	1.893	ug/ml	99
47) 2-Nitroaniline	6.861	138	6407	1.496	ug/ml	91
48) 1,4-Dinitrobenzene	6.994	168	2435	1.283	ug/ml	90
49) 1,3-Dinitrobenzene	7.069	168	3141	1.408	ug/ml	90
50) Dimethyl phthalate	7.066	163	28500	1.860	ug/ml	99
51) Acenaphthylene	7.134	152	38749	1.878	ug/ml	99
52) 2,6-Dinitrotoluene	7.106	165	5576	1.686	ug/ml	87
53) 1,2-Dinitrobenzene	7.141	168	2343	1.638	ug/ml	98
63) 3-Nitroaniline	7.256	138	6089	1.633	ug/ml#	91
64) Acenaphthene	7.305	154	23721	2.105	ug/ml	100
65) 2,4-Dinitrophenol	7.364	184	1096	0.648	ug/ml#	54
66) Dibenzofuran	7.476	168	36544	2.042	ug/ml	99
67) 2,4-Dinitrotoluene	7.492	165	6565	1.483	ug/ml#	80
68) 4-Nitrophenol	7.454	65	4209	1.393	ug/ml#	69
69) 2,3,5,6-Tetrachlorophenol	7.569	232	5871	1.553	ug/ml	99
70) 2,3,4,6-Tetrachlorophenol	7.610	232	6702	1.769	ug/ml	99
71) Diethyl phthalate	7.753	149	29908	1.914	ug/ml	99
72) Fluorene	7.806	166	26988	1.920	ug/ml	97
73) 4-Chlorophenyl phenyl ...	7.834	204	13569	1.999	ug/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : ABNL2.D
Acq On : 4 Oct 2018 1:06 am
Operator : sv109:cb
Sample : IL9,32,,ABNL2 Lot# 7575
Misc : WG1164344,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 04 09:23:41 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 08:57:06 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\181003nical\ABNL7.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74)	4-Nitroaniline	7.840	138	6012	1.583	ug/ml	95
75)	4,6-Dinitro-o-cresol	7.880	198	2435	1.069	ug/ml#	74
76)	NDPA/DPA	7.949	169	22849	1.890	ug/ml	99
77)	Azobenzene	7.980	77	28017	1.896	ug/ml	99
79)	4-Bromophenyl phenyl e...	8.297	248	8310	2.036	ug/ml	94
80)	Hexachlorobenzene	8.337	284	9896	1.955	ug/ml	99
81)	Pentachlorophenol	8.536	266	3532	1.193	ug/ml	97
88)	Phenanthrene	8.723	178	43157	2.012	ug/ml	96
89)	Anthracene	8.772	178	41484	1.882	ug/ml	99
90)	Carbazole	8.946	167	37822	1.836	ug/ml	99
91)	Di-n-butylphthalate	9.350	149	45308	1.698	ug/ml	99
92)	Fluoranthene	9.869	202	43452	1.864	ug/ml	97
93)	Benzidine	10.034	184	24335	1.602	ug/ml	98
94)	Pyrene	10.081	202	46257	1.881	ug/ml	100
96)	Butyl benzyl phthalate	10.833	149	17296	1.465	ug/ml	97
104)	Benzo(a)anthracene	11.389	228	46784	2.105	ug/ml	99
105)	3,3'-Dichlorobenzidine	11.408	252	16266	1.725	ug/ml#	95
106)	Chrysene	11.433	228	46501	2.232	ug/ml	97
107)	Bis(2-ethylhexyl)phtha...	11.588	149	25550	1.568	ug/ml	98
108)	Di-n-octylphthalate	12.499	149	36911	1.355	ug/ml#	96
109)	Benzo(b)fluoranthene	12.835	252	39749	1.900	ug/ml	96
110)	Benzo(k)fluoranthene	12.872	252	48548	2.222	ug/ml	97
111)	Benzo(a)pyrene	13.285	252	40141	1.923	ug/ml	97
113)	Indeno(1,2,3-cd)pyrene	14.901	276	34678	1.683	ug/ml	95
114)	Dibenzo(a,h)anthracene	14.964	278	36705	1.692	ug/ml	97
115)	Benzo(ghi)perylene	15.259	276	41688	1.877	ug/ml	95

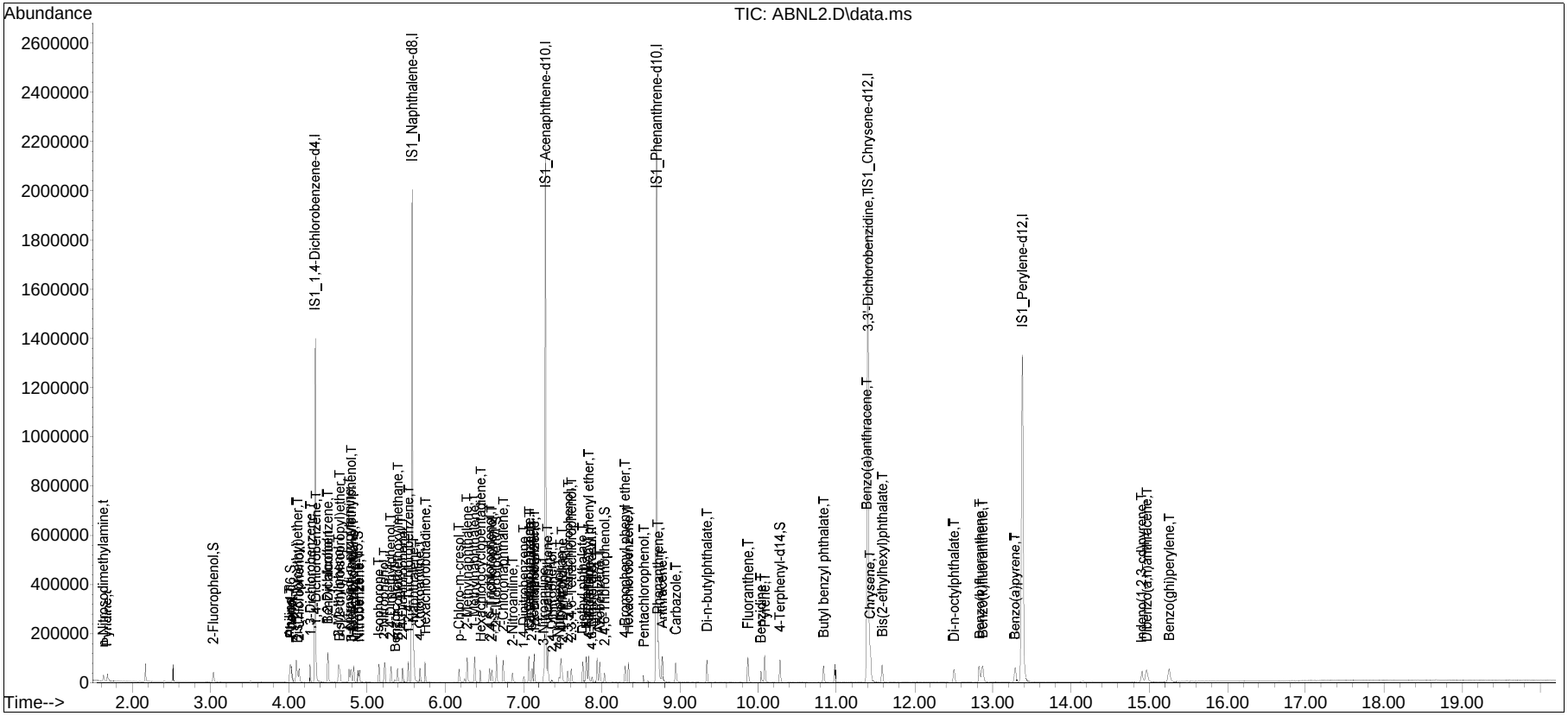
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : ABNL2.D
Acq On : 4 Oct 2018 1:06 am
Operator : sv109:cb
Sample : IL9,32,,ABNL2 Lot# 7575
Misc : WG1164344,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 04 09:23:41 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 08:57:06 2018
Response via : Initial Calibration

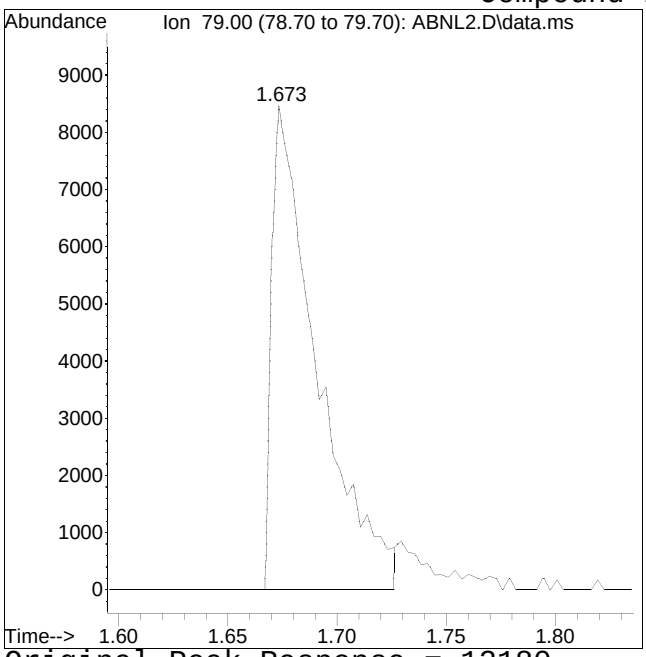
Sub List : ABNical - ABN ical sublistcal\ABNL7.D•



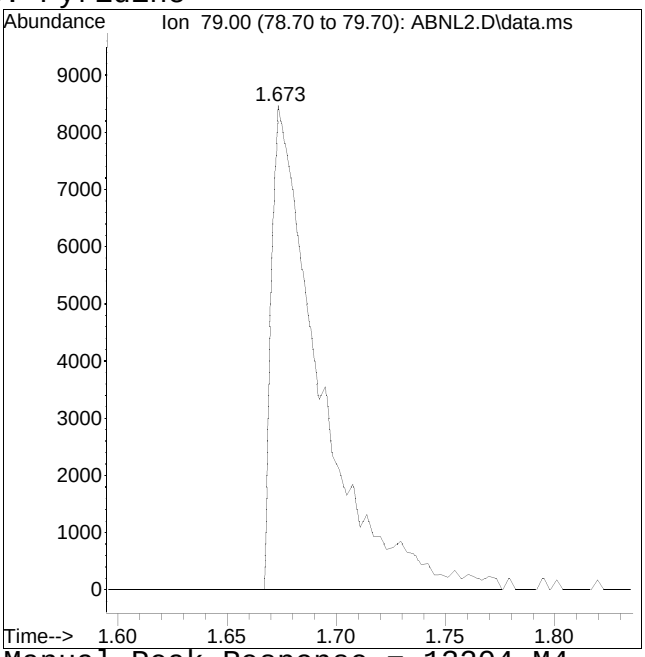
Manual Integration Report

Data Path : I:\8270\SV109\181003nical\QMethod : FS1801003nSV109.m
Data File : ABNL2.D Operator : sv109:cb
Date Inj'd : 10/4/2018 1:06 am Instrument : SV109
Sample : IL9,32,,ABNL2 Lot# 7575 Quant Date : 10/4/2018 8:58 am

Compound #3: Pyridine



Original Peak Response = 12180



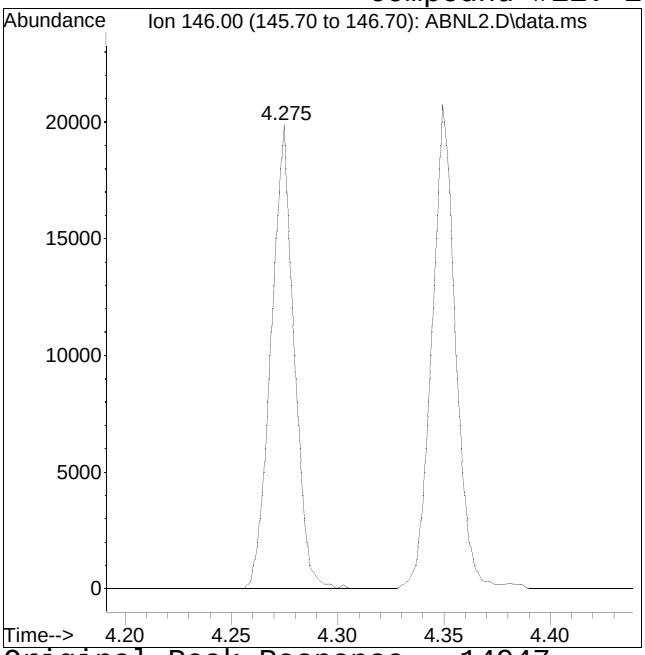
Manual Peak Response = 13204 M4

M4 = Poor automated baseline construction.

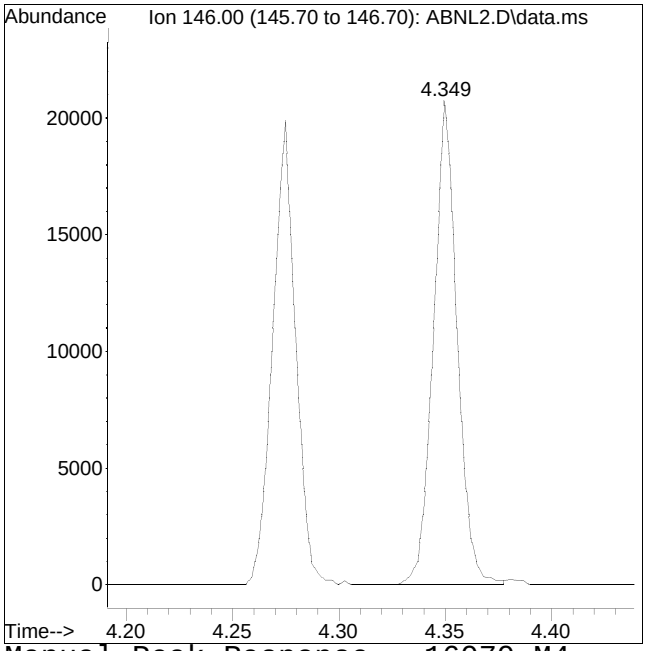
Manual Integration Report

Data Path : I:\8270\SV109\181003nical\QMethod : FS1801003nSV109.m
Data File : ABNL2.D Operator : sv109:cb
Date Inj'd : 10/4/2018 1:06 am Instrument : SV109
Sample : IL9,32,,ABNL2 Lot# 7575 Quant Date : 10/4/2018 8:58 am

Compound #11: 1,4-Dichlorobenzene



Original Peak Response = 14947



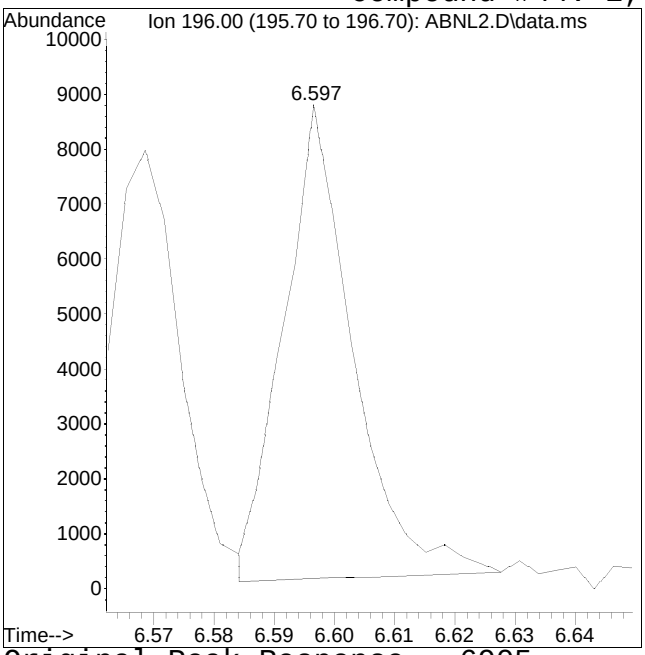
Manual Peak Response = 16070 M4

M4 = Poor automated baseline construction.

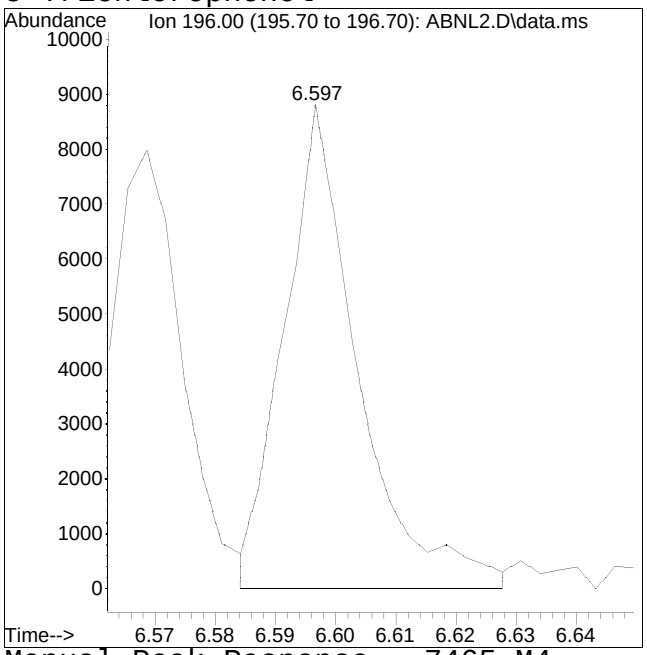
Manual Integration Report

Data Path : I:\8270\SV109\181003nical\QMethod : FS1801003nSV109.m
Data File : ABNL2.D Operator : sv109:cb
Date Inj'd : 10/4/2018 1:06 am Instrument : SV109
Sample : IL9,32,,ABNL2 Lot# 7575 Quant Date : 10/4/2018 8:58 am

Compound #44: 2,4,5-Trichlorophenol



Original Peak Response = 6905



Manual Peak Response = 7465 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : ABNL1.D
Acq On : 4 Oct 2018 1:31 am
Operator : sv109:cb
Sample : IL10,32,,ABNL1 Lot# 7574
Misc : WG1164344,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 04 09:02:02 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 08:57:06 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\181003nical\ABNL7.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.334	152	175735	40.000	ug/ml	0.00
Standard Area 1 = 177393			Recovery = 99.07%			
34) IS1_Naphthalene-d8	5.577	136	725600	40.000	ug/ml	0.00
Standard Area 1 = 728713			Recovery = 99.57%			
62) IS1_Acenaphthene-d10	7.274	164	351630	40.000	ug/ml	0.00
Standard Area 1 = 367597			Recovery = 95.66%			
87) IS1_Phenanthrene-d10	8.701	188	704387	40.000	ug/ml	0.00
Standard Area 1 = 730814			Recovery = 96.38%			
103) IS1_Chrysene-d12	11.402	240	691452	40.000	ug/ml	0.00
Standard Area 1 = 764672			Recovery = 90.42%			
112) IS1_Perylene-d12	13.375	264	722887	40.000	ug/ml	0.00
Standard Area 1 = 738756			Recovery = 97.85%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.032	112	5163	0.919	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 130		Recovery = 1.84%#			
7) Phenol-d6	4.023	99	6609	0.959	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 130		Recovery = 1.92%#			
19) Nitrobenzene-d5	4.884	82	6097	0.939	ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery = 3.76%#			
45) 2-Fluorobiphenyl	6.652	172	13565	0.959	ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery = 3.84%#			
78) 2,4,6-Tribromophenol	8.039	330	1505	0.607	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 130		Recovery = 1.21%#			
95) 4-Terphenyl-d14	10.283	244	15714	0.909	ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery = 3.64%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	1.636	74	3616	0.977	ug/ml#	71
3) Pyridine	1.689	79	6178	0.963	ug/ml#	77
5) Aniline	4.014	93	9102	0.998	ug/ml#	62
6) 2-Chlorophenol	4.126	128	6085	0.948	ug/ml	97
8) Phenol	4.035	94	7177	0.967	ug/ml#	61
9) Bis(2-chloroethyl)ether	4.107	93	5778	0.983	ug/ml	92
10) 1,3-Dichlorobenzene	4.275	146	7258	1.025	ug/ml	99
11) 1,4-Dichlorobenzene	4.349	146	7592	1.070	ug/ml	87
12) 1,2-Dichlorobenzene	4.499	146	7464	1.079	ug/ml	95
13) Benzyl alcohol	4.499	79	4484	0.874	ug/ml	95
14) Bis(2-chloroisopropyl)...	4.648	45	10351	1.049	ug/ml	93

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : ABNL1.D
Acq On : 4 Oct 2018 1:31 am
Operator : sv109:cb
Sample : IL10,32,,ABNL1 Lot# 7574
Misc : WG1164344,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 04 09:02:02 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 08:57:06 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\181003nical\ABNL7.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	4.635	108	5520	0.993	ug/ml#	88
16) Hexachloroethane	4.825	117	3035	1.057	ug/ml	97
17) n-Nitrosodi-n-propylamine	4.772	70	4130	0.950	ug/ml#	88
18) 3-Methylphenol/4-Methy...	4.794	108	5371	0.914	ug/ml#	92
20) Nitrobenzene	4.903	77	6169	0.932	ug/ml	94
21) Isophorone	5.151	82	11323	0.957	ug/ml	99
22) 2-Nitrophenol	5.220	139	2652	0.797	ug/ml	100
23) 2,4-Dimethylphenol	5.307	107	4758	0.817	ug/ml	99
24) Bis(2-chloroethoxy)met...	5.394	93	7311	0.957	ug/ml#	94
25) 2,4-Dichlorophenol	5.459	162	4882	0.905	ug/ml	93
26) 1,2,4-Trichlorobenzene	5.534	180	6229	1.043	ug/ml	99
35) Naphthalene	5.596	128	19545	1.035	ug/ml	99
36) Benzoic Acid	0.000		0	N.D.	d	
37) 4-Chloroaniline	5.677	65	2098	0.845	ug/ml	93
38) Hexachlorobutadiene	5.748	225	3557	1.005	ug/ml	99
39) p-Chloro-m-cresol	6.180	107	4167	0.768	ug/ml	99
40) 2-Methylnaphthalene	6.276	142	12596	0.989	ug/ml	95
41) 1-Methylnaphthalene	6.367	115	4399	0.986	ug/ml	91
42) Hexachlorocyclopentadiene	6.444	237	3041	0.720	ug/ml#	91
43) 2,4,6-Trichlorophenol	6.569	196	3077	0.780	ug/ml	98
44) 2,4,5-Trichlorophenol	6.597	196	3248	0.782	ug/ml	100
46) 2-Chloronaphthalene	6.739	162	11452	0.946	ug/ml	98
47) 2-Nitroaniline	6.858	138	2860	0.706	ug/ml	90
48) 1,4-Dinitrobenzene	6.994	168	1075	0.599	ug/ml	92
49) 1,3-Dinitrobenzene	7.069	168	1392	0.660	ug/ml	96
50) Dimethyl phthalate	7.066	163	13472	0.930	ug/ml#	96
51) Acenaphthylene	7.134	152	18705	0.958	ug/ml	100
52) 2,6-Dinitrotoluene	7.106	165	2447	0.782	ug/ml	87
53) 1,2-Dinitrobenzene	7.140	168	976M3	0.721	ug/ml	
63) 3-Nitroaniline	7.255	138	2796	0.801	ug/ml#	75
64) Acenaphthene	7.305	154	11289	1.069	ug/ml	100
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	7.476	168	17475	1.043	ug/ml#	87
67) 2,4-Dinitrotoluene	7.489	165	2858	0.689	ug/ml#	76
68) 4-Nitrophenol	7.457	65	1210	0.428	ug/ml#	1
69) 2,3,5,6-Tetrachlorophenol	7.569	232	2743	0.775	ug/ml	91
70) 2,3,4,6-Tetrachlorophenol	7.610	232	3161	0.891	ug/ml	89
71) Diethyl phthalate	7.753	149	13925	0.952	ug/ml	99
72) Fluorene	7.806	166	13417	1.019	ug/ml	99
73) 4-Chlorophenyl phenyl ...	7.830	204	5982	0.941	ug/ml	98

Data Path : I:\8270\SV109\181003nical\
Data File : ABNL1.D
Acq On : 4 Oct 2018 1:31 am
Operator : sv109:cb
Sample : IL10,32,,ABNL1 Lot# 7574
Misc : WG1164344,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 04 09:02:02 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 08:57:06 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\181003nical\ABNL7.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74)	4-Nitroaniline	7.837	138	2018	0.567	ug/ml#	67
75)	4,6-Dinitro-o-cresol	7.880	198	930	0.436	ug/ml#	33
76)	NDPA/DPA	7.949	169	11035	0.975	ug/ml	97
77)	Azobenzene	7.980	77	13139	0.949	ug/ml	97
79)	4-Bromophenyl phenyl e...	8.300	248	3803	0.995	ug/ml	96
80)	Hexachlorobenzene	8.340	284	4840	1.021	ug/ml	96
81)	Pentachlorophenol	8.536	266	1451	0.523	ug/ml#	51
88)	Phenanthrene	8.719	178	20877	1.053	ug/ml	99
89)	Anthracene	8.772	178	18877	0.927	ug/ml	98
90)	Carbazole	8.946	167	17619	0.925	ug/ml	98
91)	Di-n-butylphthalate	9.350	149	20398	0.827	ug/ml	99
92)	Fluoranthene	9.869	202	21291	0.988	ug/ml	97
93)	Benzidine	10.034	184	10870	0.774	ug/ml#	93
94)	Pyrene	10.081	202	21233	0.934	ug/ml	97
96)	Butyl benzyl phthalate	10.833	149	8112	0.744	ug/ml	96
104)	Benzo(a)anthracene	11.392	228	24792	1.185	ug/ml	98
105)	3,3'-Dichlorobenzidine	11.408	252	7608	0.857	ug/ml#	89
106)	Chrysene	11.433	228	23320M4	1.189	ug/ml	
107)	Bis(2-ethylhexyl)phtha...	11.585	149	11566	0.754	ug/ml#	99
108)	Di-n-octylphthalate	12.502	149	16260	0.634	ug/ml#	96
109)	Benzo(b)fluoranthene	12.831	252	22127M4	1.123	ug/ml	
110)	Benzo(k)fluoranthene	12.872	252	24290M4	1.181	ug/ml	
111)	Benzo(a)pyrene	13.288	252	22152	1.127	ug/ml	95
113)	Indeno(1,2,3-cd)pyrene	14.901	276	17135	0.874	ug/ml	95
114)	Dibenzo(a,h)anthracene	14.964	278	17854	0.865	ug/ml#	94
115)	Benzo(ghi)perylene	15.259	276	21199	1.003	ug/ml	93

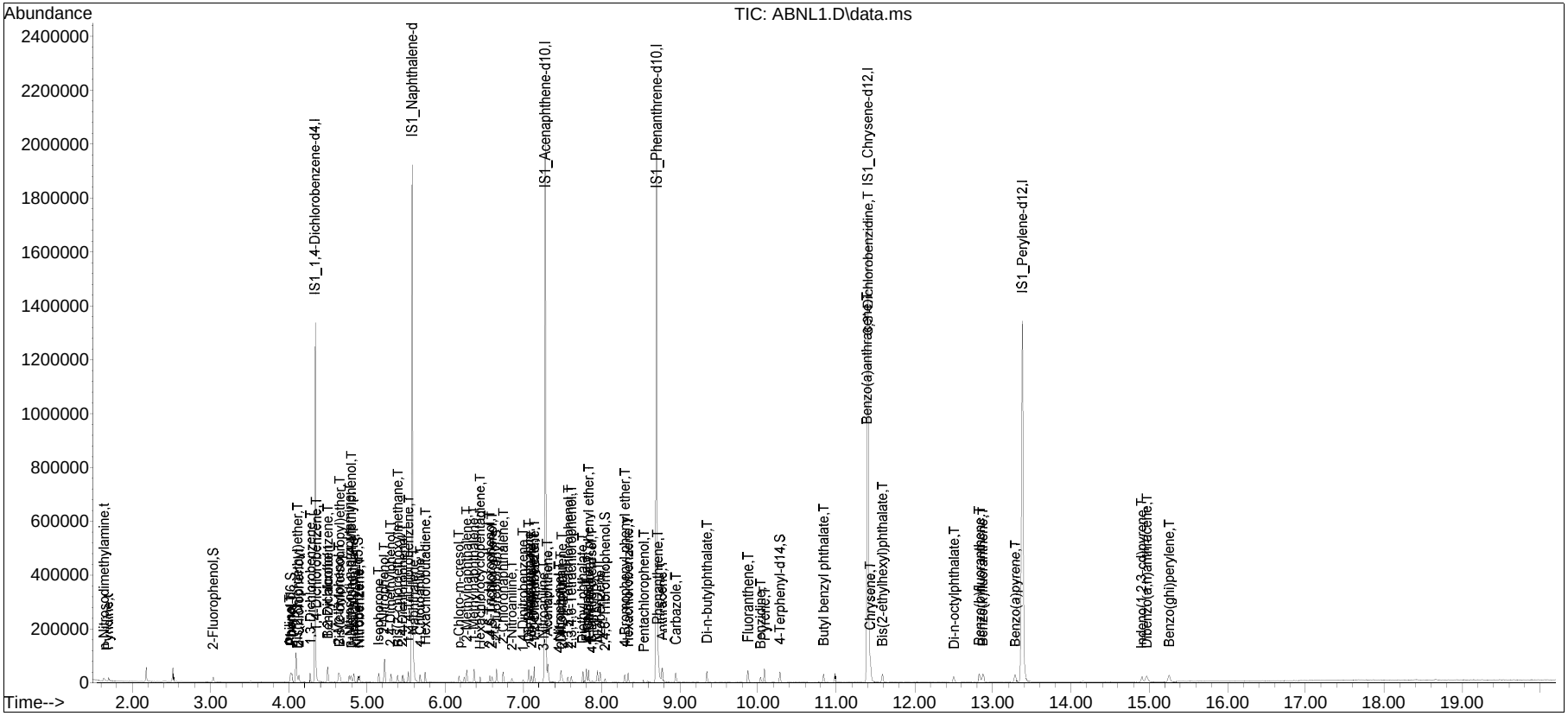
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : ABNL1.D
Acq On : 4 Oct 2018 1:31 am
Operator : sv109:cb
Sample : IL10,32,,ABNL1 Lot# 7574
Misc : WG1164344,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 04 09:02:02 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 08:57:06 2018
Response via : Initial Calibration

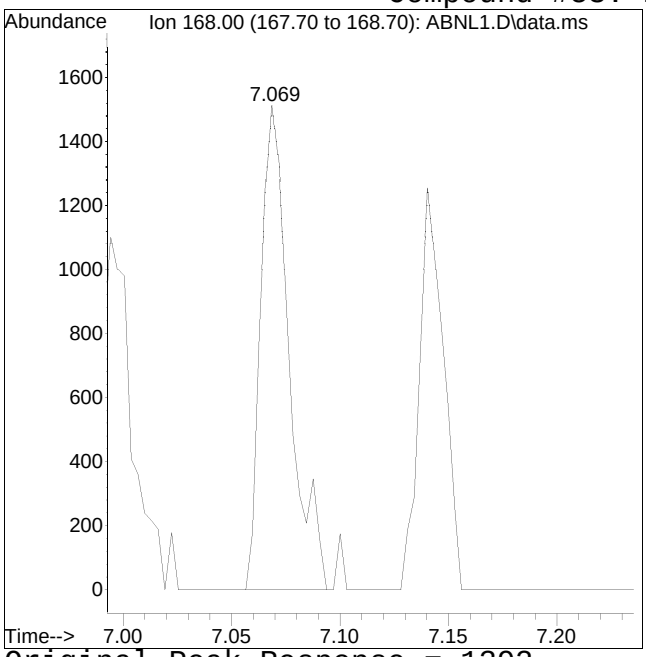
Sub List : ABNical - ABN ical sublistcal\ABNL7.D•

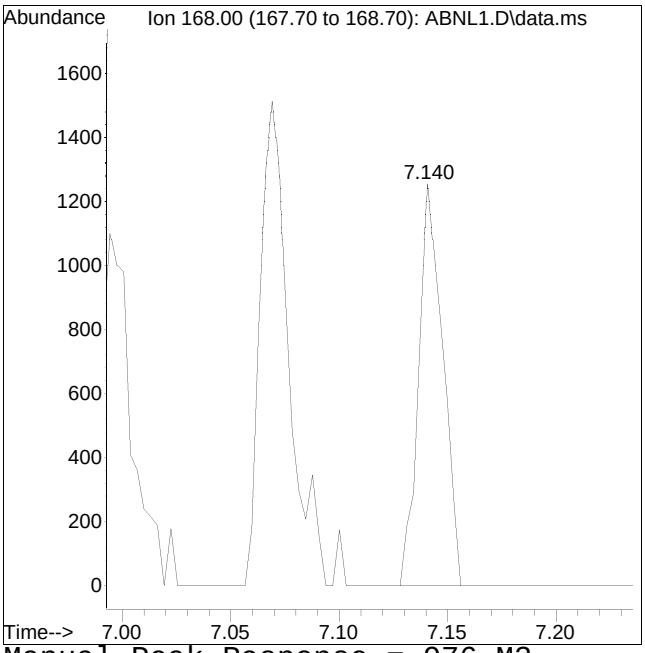


Manual Integration Report

Data Path : I:\8270\SV109\181003nical\QMethod : FS1801003nSV109.m
Data File : ABNL1.D Operator : sv109:cb
Date Inj'd : 10/4/2018 1:31 am Instrument : SV109
Sample : IL10,32,,ABNL1 Lot# 7574 Quant Date : 10/4/2018 8:58 am

Compound #53: 1,2-Dinitrobenzene





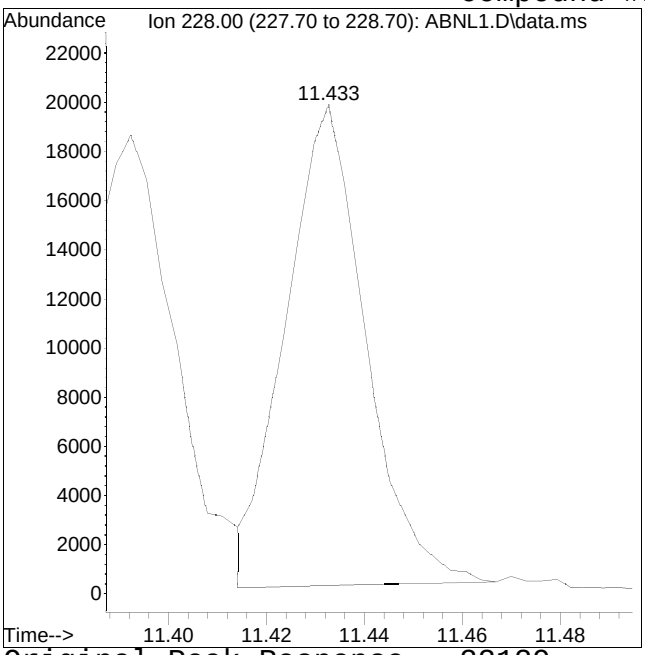
Original Peak Response = 1392 Manual Peak Response = 976 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

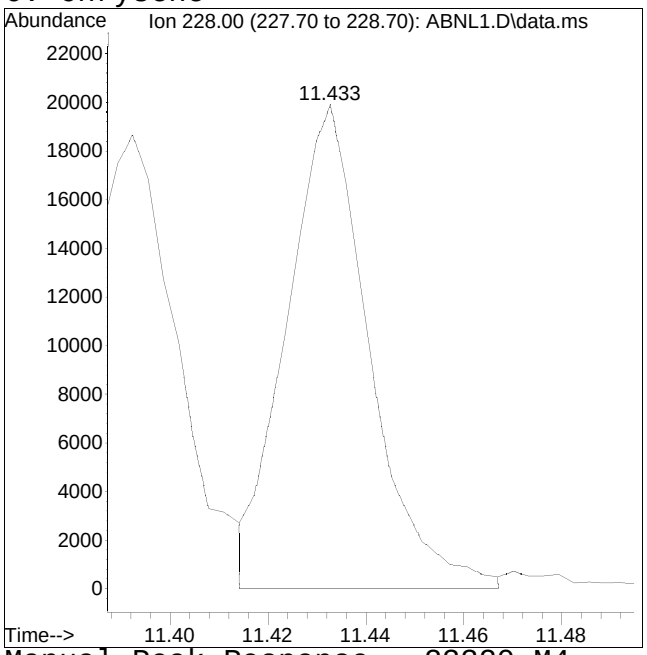
Manual Integration Report

Data Path : I:\8270\SV109\181003nical\QMethod : FS1801003nSV109.m
Data File : ABNL1.D Operator : sv109:cb
Date Inj'd : 10/4/2018 1:31 am Instrument : SV109
Sample : IL10,32,,ABNL1 Lot# 7574 Quant Date : 10/4/2018 8:58 am

Compound #106: Chrysene



Original Peak Response = 22129



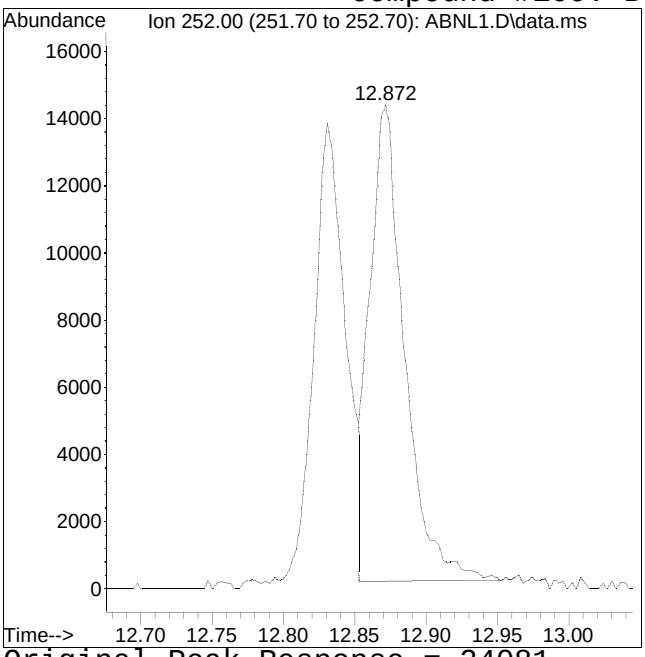
Manual Peak Response = 23320 M4

M4 = Poor automated baseline construction.

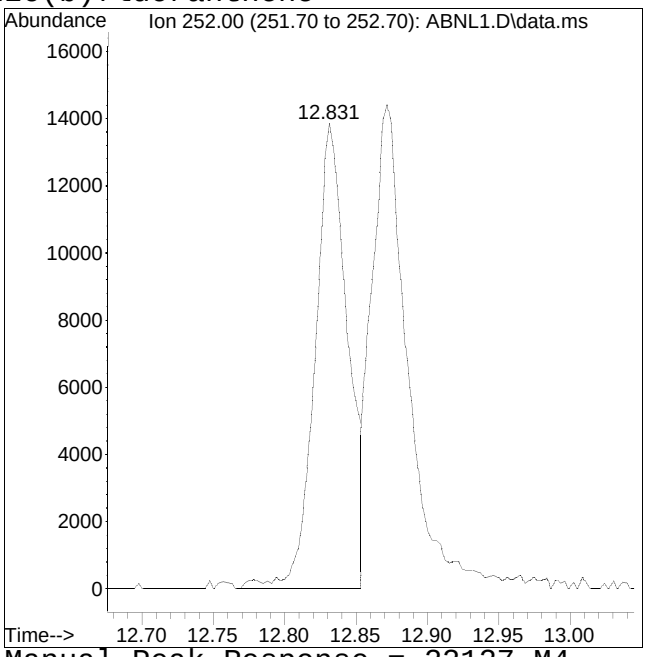
Manual Integration Report

Data Path : I:\8270\SV109\181003nical\QMethod : FS1801003nSV109.m
Data File : ABNL1.D Operator : sv109:cb
Date Inj'd : 10/4/2018 1:31 am Instrument : SV109
Sample : IL10,32,,ABNL1 Lot# 7574 Quant Date : 10/4/2018 8:58 am

Compound #109: Benzo(b)fluoranthene



Original Peak Response = 24081



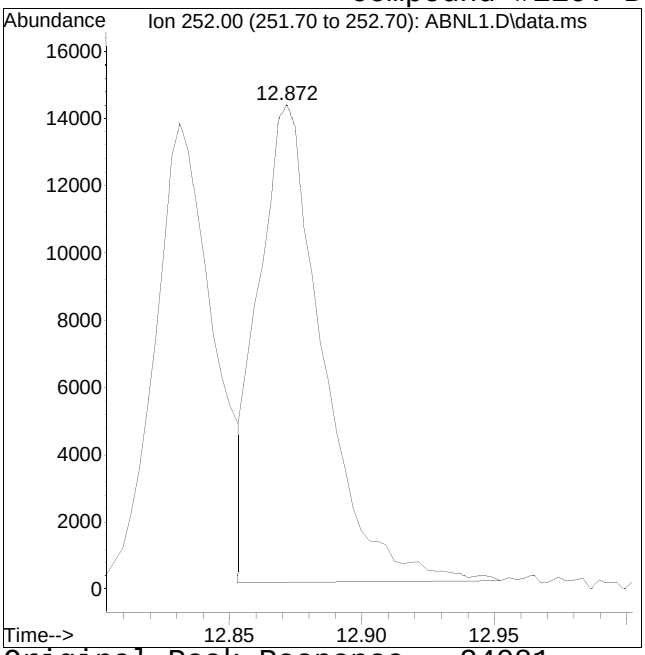
Manual Peak Response = 22127 M4

M4 = Poor automated baseline construction.

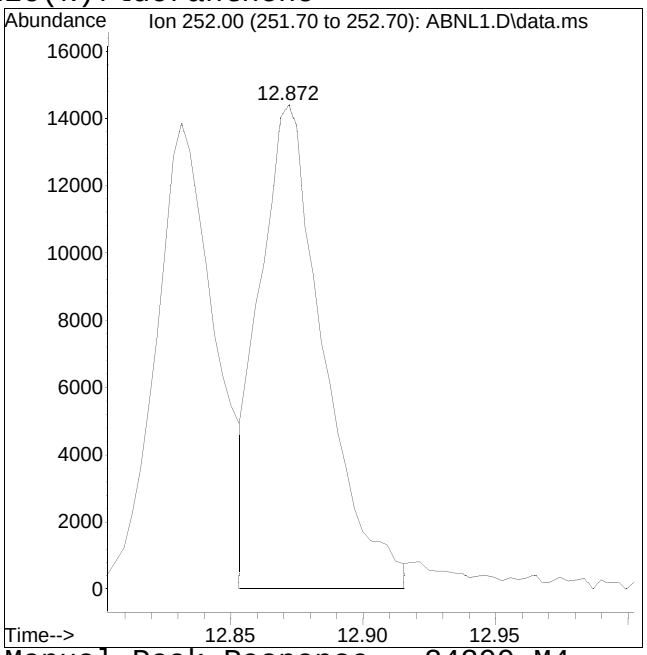
Manual Integration Report

Data Path : I:\8270\SV109\181003nical\QMethod : FS1801003nSV109.m
Data File : ABNL1.D Operator : sv109:cb
Date Inj'd : 10/4/2018 1:31 am Instrument : SV109
Sample : IL10,32,,ABNL1 Lot# 7574 Quant Date : 10/4/2018 8:58 am

Compound #110: Benzo(k)fluoranthene



Original Peak Response = 24081



Manual Peak Response = 24290 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : AP9L10.D
Acq On : 4 Oct 2018 1:56 am
Operator : sv109:cb
Sample : IL11,32,,AP9L200 Lot# 7584
Misc : WG1164344,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 04 09:41:14 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 08:57:06 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\181003nical\AP9L7.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.334	152	207886	40.000	ug/ml	0.00
Standard Area 1 = 185443			Recovery	= 112.10%		
54) IS2_Naphthalene-d8	5.577	136	860161	40.000	ug/ml	0.00
Standard Area 1 = 784330			Recovery	= 109.67%		
82) IS2_Acenaphthene-d10	7.277	164	433995	40.000	ug/ml	0.00
Standard Area 1 = 393571			Recovery	= 110.27%		
97) IS2_Phenanthrene-d10	8.701	188	885088	40.000	ug/ml	0.00
Standard Area 1 = 799036			Recovery	= 110.77%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	3.896	105	1224652	202.850	ug/ml	97
29) Acetophenone	4.750	105	2147007	206.371	ug/ml	99
30) m-Toluidine	4.834	106	2068995	204.137	ug/ml	99
31) 2-Chloroaniline	5.192	127	1963038	205.243	ug/ml	98
55) a-Terpineol	5.658	59	1336208	202.243	ug/ml	91
56) 3-Chloroaniline	5.664	65	654526	205.491	ug/ml	96
57) 2,6-Dichlorophenol	5.689	162	1281453	211.641	ug/ml	99
58) 1-chloro-2-nitrobenzene	5.941	111	643679	212.557	ug/ml	95
59) Caprolactam	6.022	55	784853	210.226	ug/ml	96
60) 1,2,4,5-Tetrachloroben...	6.450	216	1439847	209.561	ug/ml	97
61) Biphenyl	6.746	154	3587302	205.948	ug/ml	99
83) Dichloran	8.415	206	457304	230.630	ug/ml	93
84) Pentachloronitrobenzene	8.555	237	473172	229.376	ug/ml	97
98) Diphenamid	9.627	167	2498931	220.204	ug/ml	95

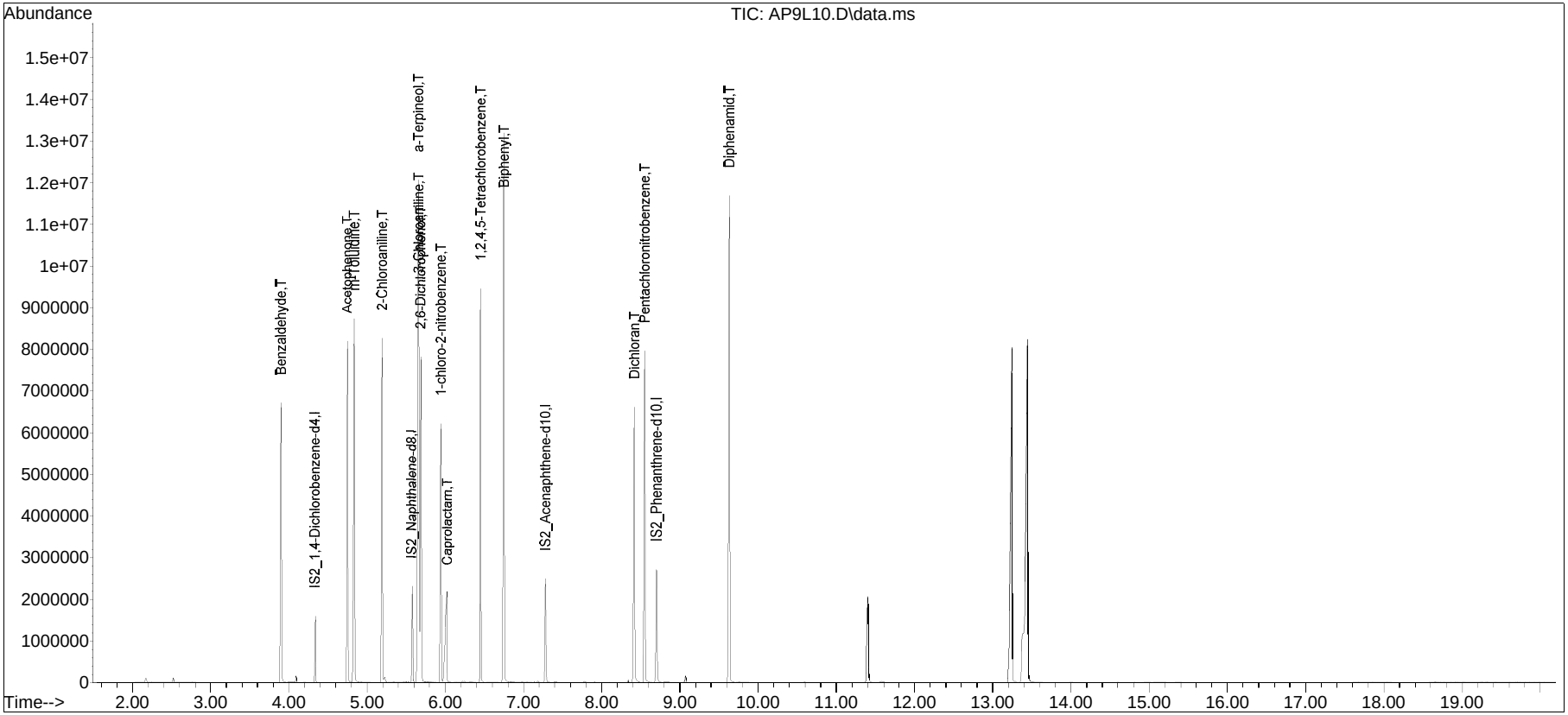
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : AP9L10.D
Acq On : 4 Oct 2018 1:56 am
Operator : sv109:cb
Sample : IL11,32,,AP9L200 Lot# 7584
Misc : WG1164344,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Oct 04 09:41:14 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 08:57:06 2018
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistcal\AP9L7.D•



Manual Integration Report

Data Path	: I:\8270\SV109\181003nical\	QMethod	: FS1801003nSV109.m
Data File	: AP9L10.D	Operator	: sv109:cb
Date Inj'd	: 10/4/2018 1:56 am	Instrument	: SV109
Sample	: IL11,32,,AP9L200 Lot# 7584	Quant Date	: 10/4/2018 8:59 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : AP9L9.D
Acq On : 4 Oct 2018 2:22 am
Operator : sv109:cb
Sample : IL12,32,,AP9L150 Lot# 7593
Misc : WG1164344,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 04 09:48:14 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 08:57:06 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\181003nical\AP9L7.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.334	152	196150	40.000	ug/ml	0.00
Standard Area 1 = 185443			Recovery = 105.77%			
54) IS2_Naphthalene-d8	5.577	136	816366	40.000	ug/ml	0.00
Standard Area 1 = 784330			Recovery = 104.08%			
82) IS2_Acenaphthene-d10	7.274	164	396516	40.000	ug/ml	0.00
Standard Area 1 = 393571			Recovery = 100.75%			
97) IS2_Phenanthrene-d10	8.701	188	805510	40.000	ug/ml	0.00
Standard Area 1 = 799036			Recovery = 100.81%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	3.896	105	837905	147.094	ug/ml	96
29) Acetophenone	4.747	105	1465359	149.278	ug/ml	98
30) m-Toluidine	4.831	106	1421020	148.593	ug/ml	99
31) 2-Chloroaniline	5.189	127	1352125	149.828	ug/ml	98
55) a-Terpineol	5.652	59	938269	149.631	ug/ml	92
56) 3-Chloroaniline	5.661	65	455207	150.581	ug/ml	94
57) 2,6-Dichlorophenol	5.686	162	881110	153.328	ug/ml	98
58) 1-chloro-2-nitrobenzene	5.938	111	439018	152.751	ug/ml	94
59) Caprolactam	6.009	55	536256	151.344	ug/ml	96
60) 1,2,4,5-Tetrachloroben...	6.447	216	1000805	153.475	ug/ml	98
61) Biphenyl	6.743	154	2468088	149.295	ug/ml	99
83) Dichloran	8.412	206	299844	165.512	ug/ml	95
84) Pentachloronitrobenzene	8.552	237	310658	164.830	ug/ml	99
98) Diphenamid	9.624	167	1654856	160.231	ug/ml	95

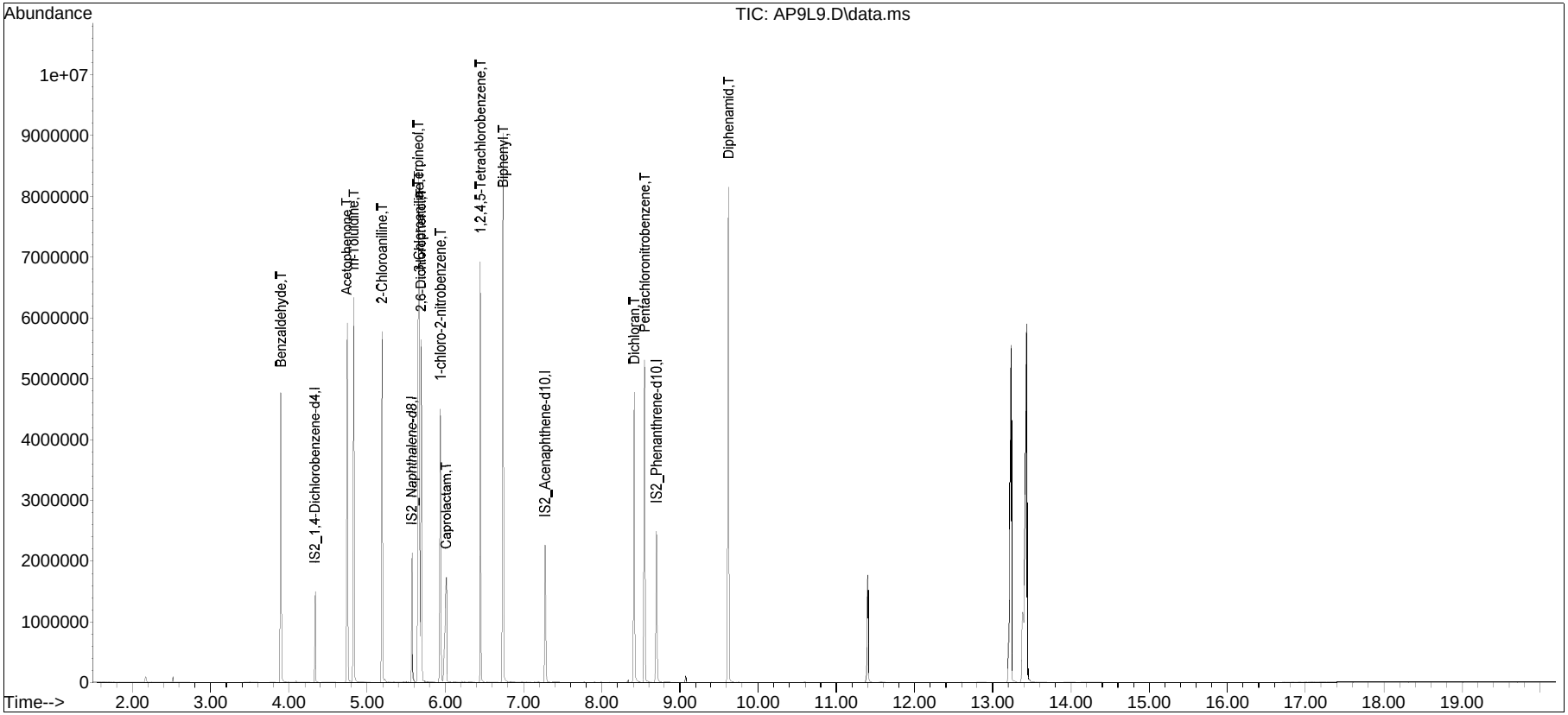
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : AP9L9.D
Acq On : 4 Oct 2018 2:22 am
Operator : sv109:cb
Sample : IL12,32,,AP9L150 Lot# 7593
Misc : WG1164344,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Oct 04 09:48:14 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 08:57:06 2018
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistcal\AP9L7.D•



Manual Integration Report

Data Path	: I:\8270\SV109\181003nical\	QMethod	: FS1801003nSV109.m
Data File	: AP9L9.D	Operator	: sv109:cb
Date Inj'd	: 10/4/2018 2:22 am	Instrument	: SV109
Sample	: IL12,32,,AP9L150 Lot# 7593	Quant Date	: 10/4/2018 9:00 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : AP9L8.D
Acq On : 4 Oct 2018 2:47 am
Operator : sv109:cb
Sample : IL13,32,,AP9L100 Lot# 7592
Misc : WG1164344,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 04 09:47:33 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 08:57:06 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\181003nical\AP9L7.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.334	152	186730	40.000	ug/ml	0.00
Standard Area 1 = 185443			Recovery	= 100.69%		
54) IS2_Naphthalene-d8	5.577	136	784051	40.000	ug/ml	0.00
Standard Area 1 = 784330			Recovery	= 99.96%		
82) IS2_Acenaphthene-d10	7.277	164	392286	40.000	ug/ml	0.00
Standard Area 1 = 393571			Recovery	= 99.67%		
97) IS2_Phenanthrene-d10	8.701	188	808529	40.000	ug/ml	0.00
Standard Area 1 = 799036			Recovery	= 101.19%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	3.893	105	536121	98.864	ug/ml	97
29) Acetophenone	4.744	105	942282	100.834	ug/ml	97
30) m-Toluidine	4.831	106	914937	100.500	ug/ml	99
31) 2-Chloroaniline	5.189	127	859906	100.093	ug/ml	98
55) a-Terpineol	5.649	59	609319	101.177	ug/ml	94
56) 3-Chloroaniline	5.661	65	295133	101.653	ug/ml	93
57) 2,6-Dichlorophenol	5.683	162	562946	102.000	ug/ml	98
58) 1-chloro-2-nitrobenzene	5.938	111	279872	101.391	ug/ml	95
59) Caprolactam	6.000	55	346507	101.823	ug/ml	96
60) 1,2,4,5-Tetrachloroben...	6.447	216	633425	101.140	ug/ml	98
61) Biphenyl	6.743	154	1606358	101.174	ug/ml	100
83) Dichloran	8.409	206	192090	107.176	ug/ml	92
84) Pentachloronitrobenzene	8.552	237	201411	108.018	ug/ml	98
98) Diphenamid	9.621	167	1083658	104.533	ug/ml	96

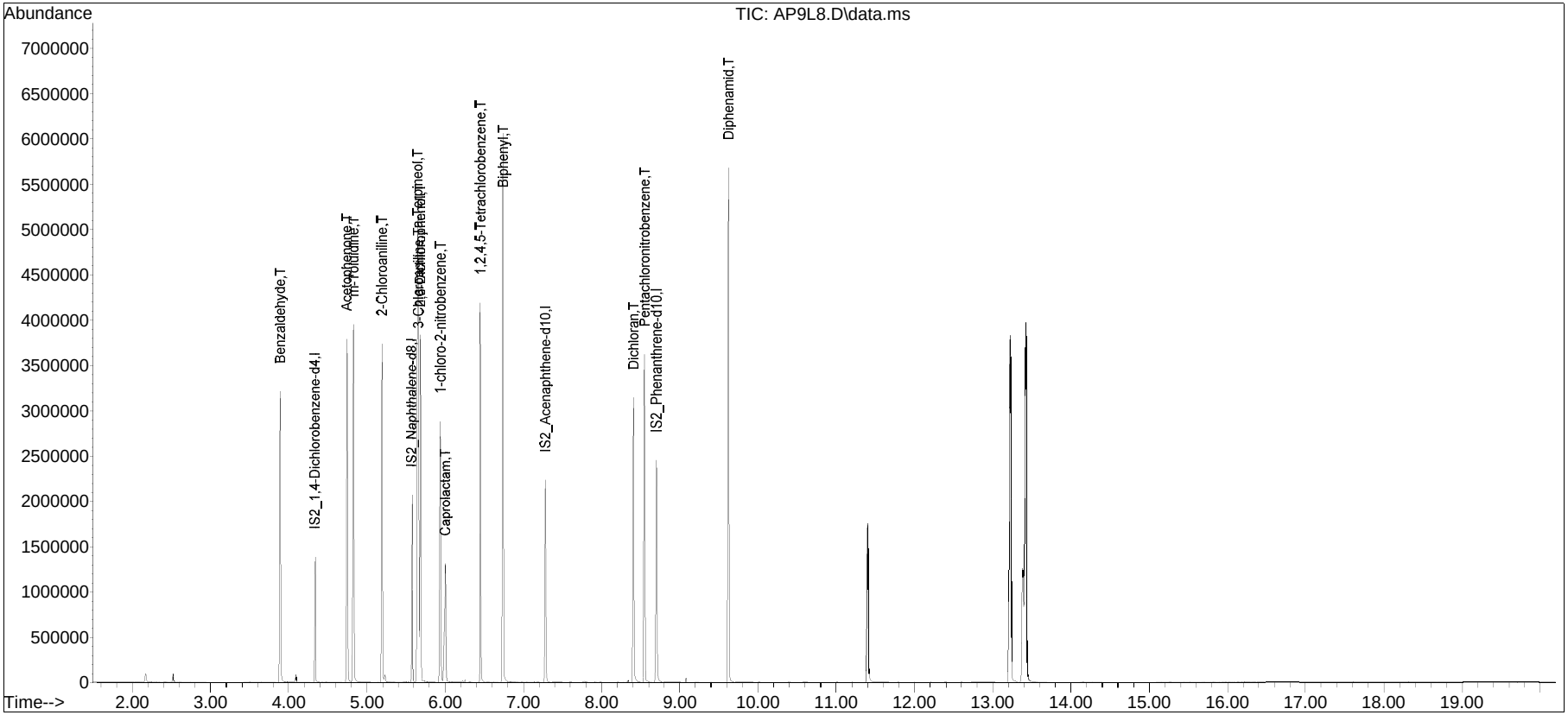
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : AP9L8.D
Acq On : 4 Oct 2018 2:47 am
Operator : sv109:cb
Sample : IL13,32,,AP9L100 Lot# 7592
Misc : WG1164344,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 04 09:47:33 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 08:57:06 2018
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistcal\AP9L7.D•



Manual Integration Report

Data Path	: I:\8270\SV109\181003nical\	QMethod	: FS1801003nSV109.m
Data File	: AP9L8.D	Operator	: sv109:cb
Date Inj'd	: 10/4/2018 2:47 am	Instrument	: SV109
Sample	: IL13,32,,AP9L100 Lot# 7592	Quant Date	: 10/4/2018 9:00 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : AP9L7.D
Acq On : 4 Oct 2018 3:12 am
Operator : sv109:cb
Sample : IL14,32,,AP9L50 Lot# 7591
Misc : WG1164344,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 04 09:46:42 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 08:57:06 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\181003nical\AP9L7.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.334	152	185443	40.000	ug/ml	0.00
Standard Area 1 = 185443			Recovery = 100.00%			
54) IS2_Naphthalene-d8	5.577	136	784330	40.000	ug/ml	0.00
Standard Area 1 = 784330			Recovery = 100.00%			
82) IS2_Acenaphthene-d10	7.277	164	393571	40.000	ug/ml	0.00
Standard Area 1 = 393571			Recovery = 100.00%			
97) IS2_Phenanthrene-d10	8.701	188	799036	40.000	ug/ml	0.00
Standard Area 1 = 799036			Recovery = 100.00%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	3.893	105	269273	50.000	ug/ml	97
29) Acetophenone	4.744	105	464024	50.000	ug/ml	97
30) m-Toluidine	4.828	106	452057	50.000	ug/ml	99
31) 2-Chloroaniline	5.189	127	426594	50.000	ug/ml	98
55) a-Terpineol	5.646	59	301224	50.000	ug/ml	94
56) 3-Chloroaniline	5.658	65	145219	50.000	ug/ml	92
57) 2,6-Dichlorophenol	5.680	162	276053	50.000	ug/ml	98
58) 1-chloro-2-nitrobenzene	5.935	111	138065	50.000	ug/ml	96
59) Caprolactam	5.987	55	170212	50.000	ug/ml	96
60) 1,2,4,5-Tetrachloroben...	6.447	216	313253	50.000	ug/ml	99
61) Biphenyl	6.743	154	794143	50.000	ug/ml	100
83) Dichloran	8.409	206	89908	50.000	ug/ml	92
84) Pentachloronitrobenzene	8.548	237	93536	50.000	ug/ml	98
98) Diphenamid	9.618	167	512246	50.000	ug/ml	97

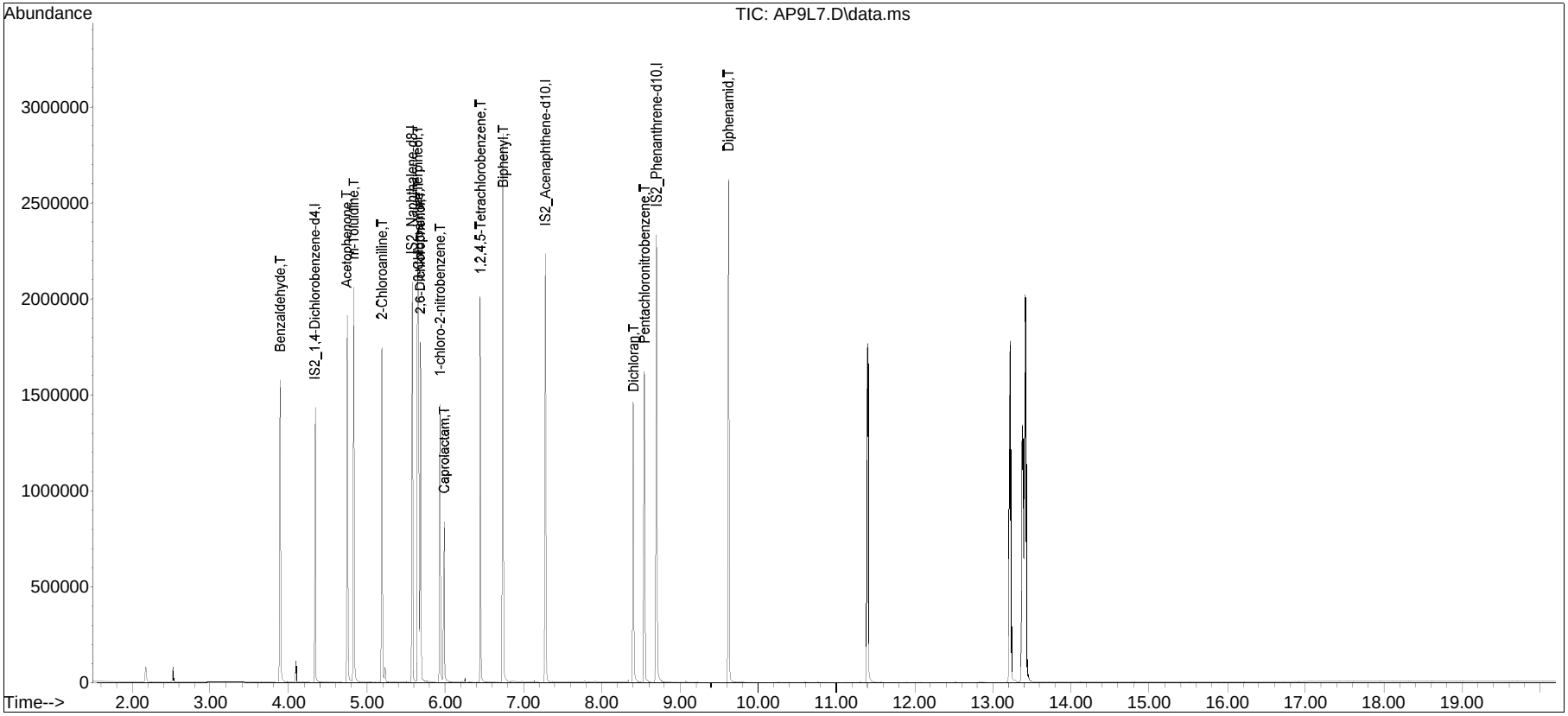
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : AP9L7.D
Acq On : 4 Oct 2018 3:12 am
Operator : sv109:cb
Sample : IL14,32,,AP9L50 Lot# 7591
Misc : WG1164344,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 04 09:46:42 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 08:57:06 2018
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistcal\AP9L7.D•



Manual Integration Report

Data Path	: I:\8270\SV109\181003nical\	QMethod	: FS1801003nSV109.m
Data File	: AP9L7.D	Operator	: sv109:cb
Date Inj'd	: 10/4/2018 3:12 am	Instrument	: SV109
Sample	: IL14,32,,AP9L50 Lot# 7591	Quant Date	: 10/4/2018 9:00 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : AP9L6.D
Acq On : 4 Oct 2018 3:37 am
Operator : sv109:cb
Sample : IL15,32,,AP9L20 Lot# 7590
Misc : WG1164344,,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 04 09:44:13 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 08:57:06 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\181003nical\AP9L7.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.334	152	191086	40.000	ug/ml	0.00
Standard Area 1 = 185443			Recovery = 103.04%			
54) IS2_Naphthalene-d8	5.577	136	792043	40.000	ug/ml	0.00
Standard Area 1 = 784330			Recovery = 100.98%			
82) IS2_Acenaphthene-d10	7.277	164	394705	40.000	ug/ml	0.00
Standard Area 1 = 393571			Recovery = 100.29%			
97) IS2_Phenanthrene-d10	8.701	188	823589	40.000	ug/ml	0.00
Standard Area 1 = 799036			Recovery = 103.07%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	3.892	105	106383	19.170	ug/ml	96
29) Acetophenone	4.744	105	182550	19.089	ug/ml	97
30) m-Toluidine	4.828	106	178853	19.198	ug/ml	99
31) 2-Chloroaniline	5.188	127	167576	19.061	ug/ml	97
55) a-Terpineol	5.645	59	119571	19.654	ug/ml	93
56) 3-Chloroaniline	5.655	65	56678	19.325	ug/ml	92
57) 2,6-Dichlorophenol	5.680	162	108755	19.506	ug/ml	97
58) 1-chloro-2-nitrobenzene	5.934	111	53614	19.227	ug/ml	96
59) Caprolactam	5.978	55	67106	19.521	ug/ml	97
60) 1,2,4,5-Tetrachloroben...	6.444	216	124756	19.719	ug/ml	99
61) Biphenyl	6.739	154	319516	19.921	ug/ml	99
83) Dichloran	8.405	206	32446	17.992	ug/ml	97
84) Pentachloronitrobenzene	8.548	237	36321	19.360	ug/ml	98
98) Diphenamid	9.618	167	202436	19.171	ug/ml	96

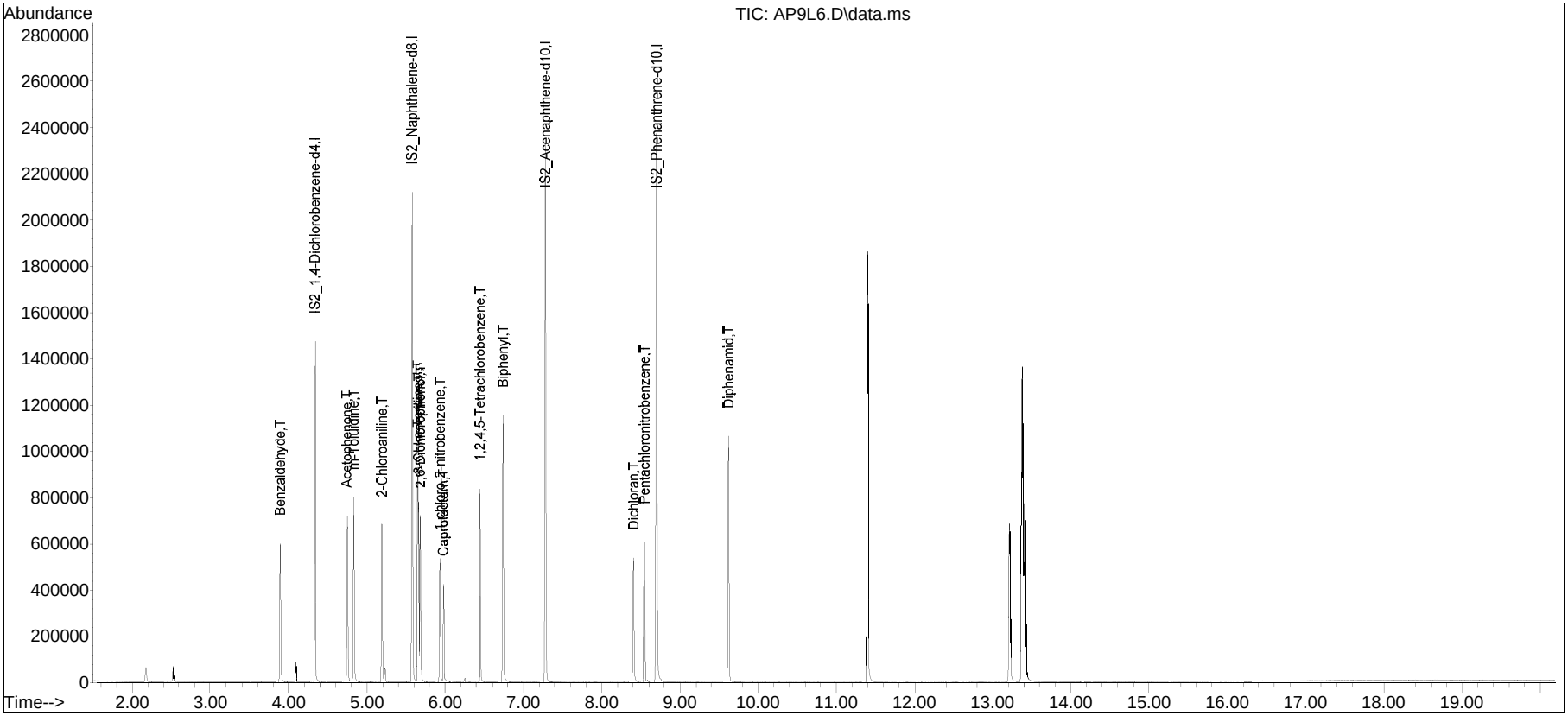
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : AP9L6.D
Acq On : 4 Oct 2018 3:37 am
Operator : sv109:cb
Sample : IL15,32,,AP9L20 Lot# 7590
Misc : WG1164344,,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 04 09:44:13 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 08:57:06 2018
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistcal\AP9L7.D•



Manual Integration Report

Data Path	: I:\8270\SV109\181003nical\	QMethod	: FS1801003nSV109.m
Data File	: AP9L6.D	Operator	: sv109:cb
Date Inj'd	: 10/4/2018 3:37 am	Instrument	: SV109
Sample	: IL15,32,,AP9L20 Lot# 7590	Quant Date	: 10/4/2018 9:00 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : AP9L5.D
Acq On : 4 Oct 2018 4:02 am
Operator : sv109:cb
Sample : IL16,32,,AP9L10 Lot# 7589
Misc : WG1164344,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 04 09:43:47 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 08:57:06 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\181003nical\AP9L7.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.334	152	174461	40.000	ug/ml	0.00
Standard Area 1 = 185443			Recovery =	94.08%		
54) IS2_Naphthalene-d8	5.577	136	711792	40.000	ug/ml	0.00
Standard Area 1 = 784330			Recovery =	90.75%		
82) IS2_Acenaphthene-d10	7.274	164	353478	40.000	ug/ml	0.00
Standard Area 1 = 393571			Recovery =	89.81%		
97) IS2_Phenanthrene-d10	8.701	188	721963	40.000	ug/ml	0.00
Standard Area 1 = 799036			Recovery =	90.35%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	3.893	105	46949	9.266	ug/ml	98
29) Acetophenone	4.744	105	79157	9.066	ug/ml	95
30) m-Toluidine	4.828	106	78180	9.191	ug/ml	99
31) 2-Chloroaniline	5.186	127	73731	9.186	ug/ml	97
55) a-Terpineol	5.643	59	52324	9.570	ug/ml	94
56) 3-Chloroaniline	5.655	65	24535	9.308	ug/ml	90
57) 2,6-Dichlorophenol	5.680	162	46659	9.312	ug/ml	97
58) 1-chloro-2-nitrobenzene	5.935	111	23365	9.324	ug/ml	97
59) Caprolactam	5.972	55	28114	9.100	ug/ml	95
60) 1,2,4,5-Tetrachloroben...	6.444	216	55378	9.740	ug/ml	99
61) Biphenyl	6.740	154	139138	9.653	ug/ml	100
83) Dichloran	8.406	206	12950	8.019	ug/ml	97
84) Pentachloronitrobenzene	8.549	237	15484	9.216	ug/ml	99
98) Diphenamid	9.618	167	86978	9.396	ug/ml	96

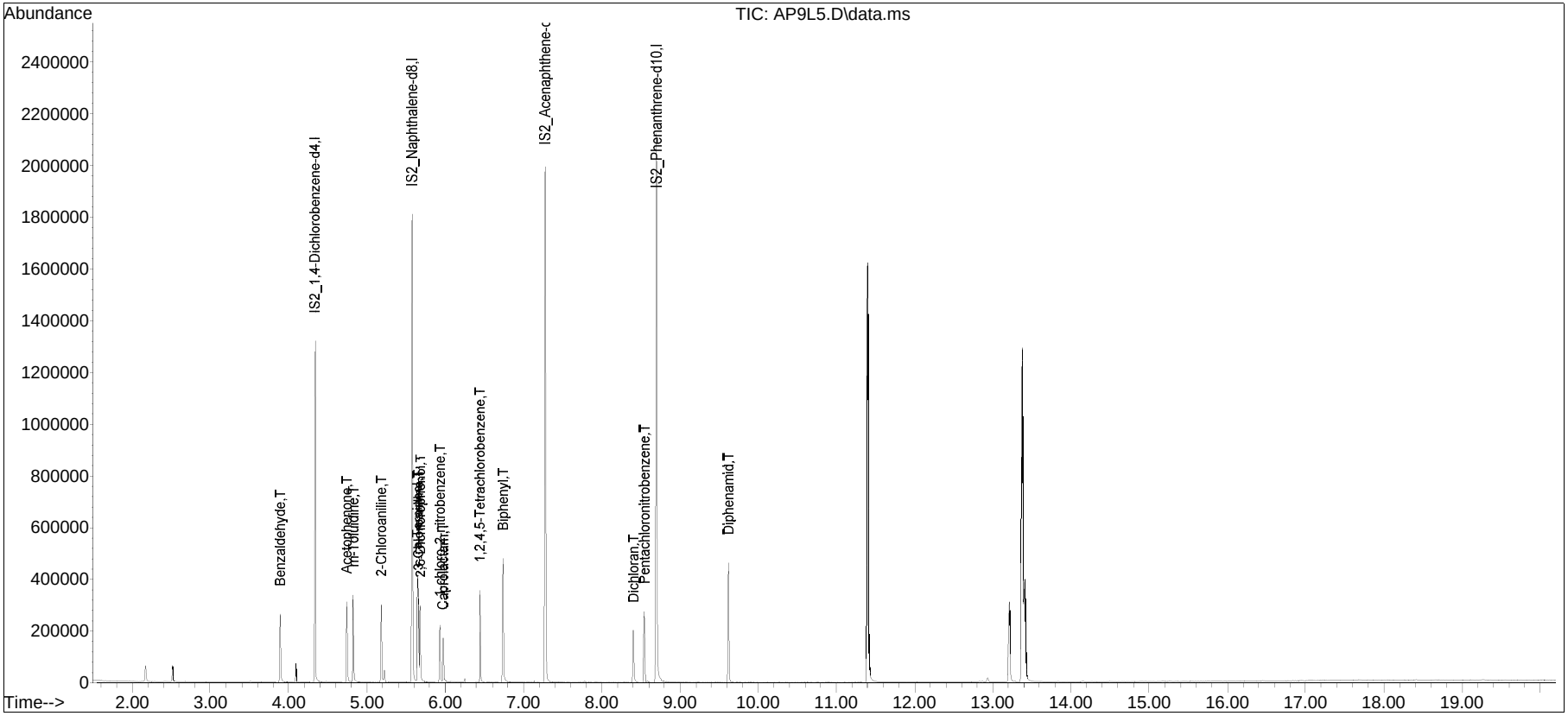
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : AP9L5.D
Acq On : 4 Oct 2018 4:02 am
Operator : sv109:cb
Sample : IL16,32,,AP9L10 Lot# 7589
Misc : WG1164344,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Oct 04 09:43:47 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 08:57:06 2018
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistcal\AP9L7.D•



Manual Integration Report

Data Path	: I:\8270\SV109\181003nical\	QMethod	: FS1801003nSV109.m
Data File	: AP9L5.D	Operator	: sv109:cb
Date Inj'd	: 10/4/2018 4:02 am	Instrument	: SV109
Sample	: IL16,32,,AP9L10 Lot# 7589	Quant Date	: 10/4/2018 9:00 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : AP9L4.D
Acq On : 4 Oct 2018 4:28 am
Operator : sv109:cb
Sample : IL17,32,,AP9L5 Lot# 7588
Misc : WG1164344,,
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Oct 04 09:43:07 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 08:57:06 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\181003nical\AP9L7.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.334	152	189303	40.000	ug/ml	0.00
Standard Area 1 = 185443			Recovery	= 102.08%		
54) IS2_Naphthalene-d8	5.577	136	773845	40.000	ug/ml	0.00
Standard Area 1 = 784330			Recovery	= 98.66%		
82) IS2_Acenaphthene-d10	7.277	164	375872	40.000	ug/ml	0.00
Standard Area 1 = 393571			Recovery	= 95.50%		
97) IS2_Phenanthrene-d10	8.701	188	779032	40.000	ug/ml	0.00
Standard Area 1 = 799036			Recovery	= 97.50%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	3.896	105	26046	4.738	ug/ml	98
29) Acetophenone	4.744	105	43147	4.554	ug/ml	97
30) m-Toluidine	4.828	106	43118	4.672	ug/ml	96
31) 2-Chloroaniline	5.189	127	39866	4.577	ug/ml	96
55) a-Terpineol	5.642	59	28075	4.723	ug/ml	93
56) 3-Chloroaniline	5.655	65	14379	5.018	ug/ml	81
57) 2,6-Dichlorophenol	5.680	162	24358	4.472	ug/ml	98
58) 1-chloro-2-nitrobenzene	5.935	111	12423	4.560	ug/ml	97
59) Caprolactam	5.972	55	15049	4.481	ug/ml	97
60) 1,2,4,5-Tetrachloroben...	6.444	216	29964	4.848	ug/ml	100
61) Biphenyl	6.740	154	75385	4.811	ug/ml	99
83) Dichloran	8.405	206	6632	3.862	ug/ml	96
84) Pentachloronitrobenzene	8.548	237	7774	4.351	ug/ml	99
98) Diphenamid	9.618	167	44832	4.488	ug/ml	96

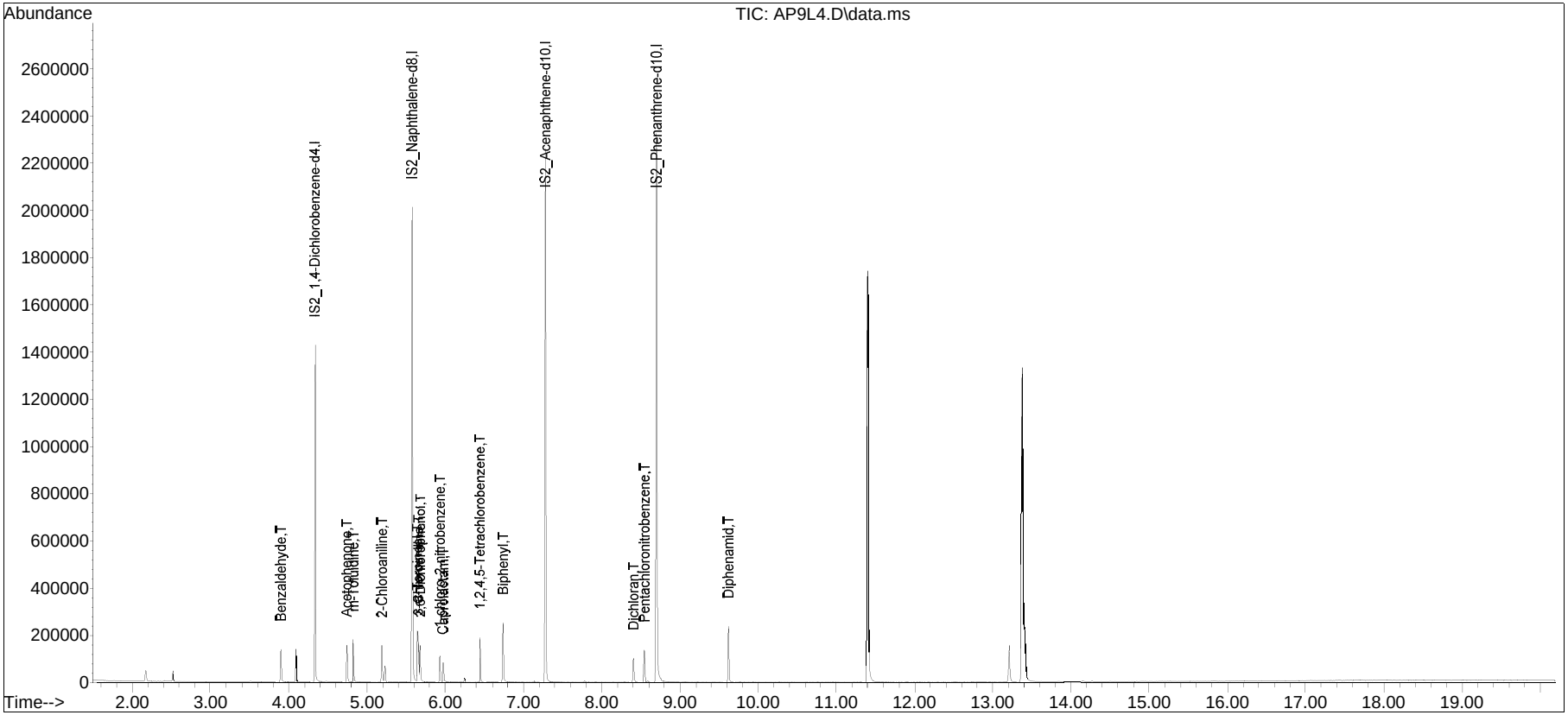
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : AP9L4.D
Acq On : 4 Oct 2018 4:28 am
Operator : sv109:cb
Sample : IL17,32,,AP9L5 Lot# 7588
Misc : WG1164344,,
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Oct 04 09:43:07 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 08:57:06 2018
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistcal\AP9L7.D•



Manual Integration Report

Data Path	: I:\8270\SV109\181003nical\	QMethod	: FS1801003nSV109.m
Data File	: AP9L4.D	Operator	: sv109:cb
Date Inj'd	: 10/4/2018 4:28 am	Instrument	: SV109
Sample	: IL17,32,,AP9L5 Lot# 7588	Quant Date	: 10/4/2018 9:00 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : AP9L3.D
Acq On : 4 Oct 2018 4:53 am
Operator : sv109:cb
Sample : IL18,32,,AP9L3 Lot# 7587
Misc : WG1164344,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 04 09:42:30 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 08:57:06 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\181003nical\AP9L7.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.334	152	205365	40.000	ug/ml	0.00
Standard Area 1 = 185443			Recovery = 110.74%			
54) IS2_Naphthalene-d8	5.574	136	839822	40.000	ug/ml	0.00
Standard Area 1 = 784330			Recovery = 107.08%			
82) IS2_Acenaphthene-d10	7.274	164	411931	40.000	ug/ml	0.00
Standard Area 1 = 393571			Recovery = 104.66%			
97) IS2_Phenanthrene-d10	8.701	188	834135	40.000	ug/ml	0.00
Standard Area 1 = 799036			Recovery = 104.39%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	3.896	105	16132	2.705	ug/ml	99
29) Acetophenone	4.744	105	27527	2.678	ug/ml	95
30) m-Toluidine	4.828	106	27112	2.708	ug/ml	99
31) 2-Chloroaniline	5.186	127	25072	2.654	ug/ml	98
55) a-Terpineol	5.643	59	18486	2.866	ug/ml	97
56) 3-Chloroaniline	5.655	65	8789	2.826	ug/ml	84
57) 2,6-Dichlorophenol	5.680	162	14986	2.535	ug/ml	98
58) 1-chloro-2-nitrobenzene	5.935	111	7680	2.598	ug/ml	96
59) Caprolactam	5.975	55	8921	2.447	ug/ml	98
60) 1,2,4,5-Tetrachloroben...	6.444	216	18881	2.815	ug/ml	99
61) Biphenyl	6.740	154	47845	2.813	ug/ml	98
83) Dichloran	8.403	206	3926	2.086	ug/ml	98
84) Pentachloronitrobenzene	8.549	237	4610	2.354	ug/ml	98
98) Diphenamid	9.618	167	27836	2.603	ug/ml	97

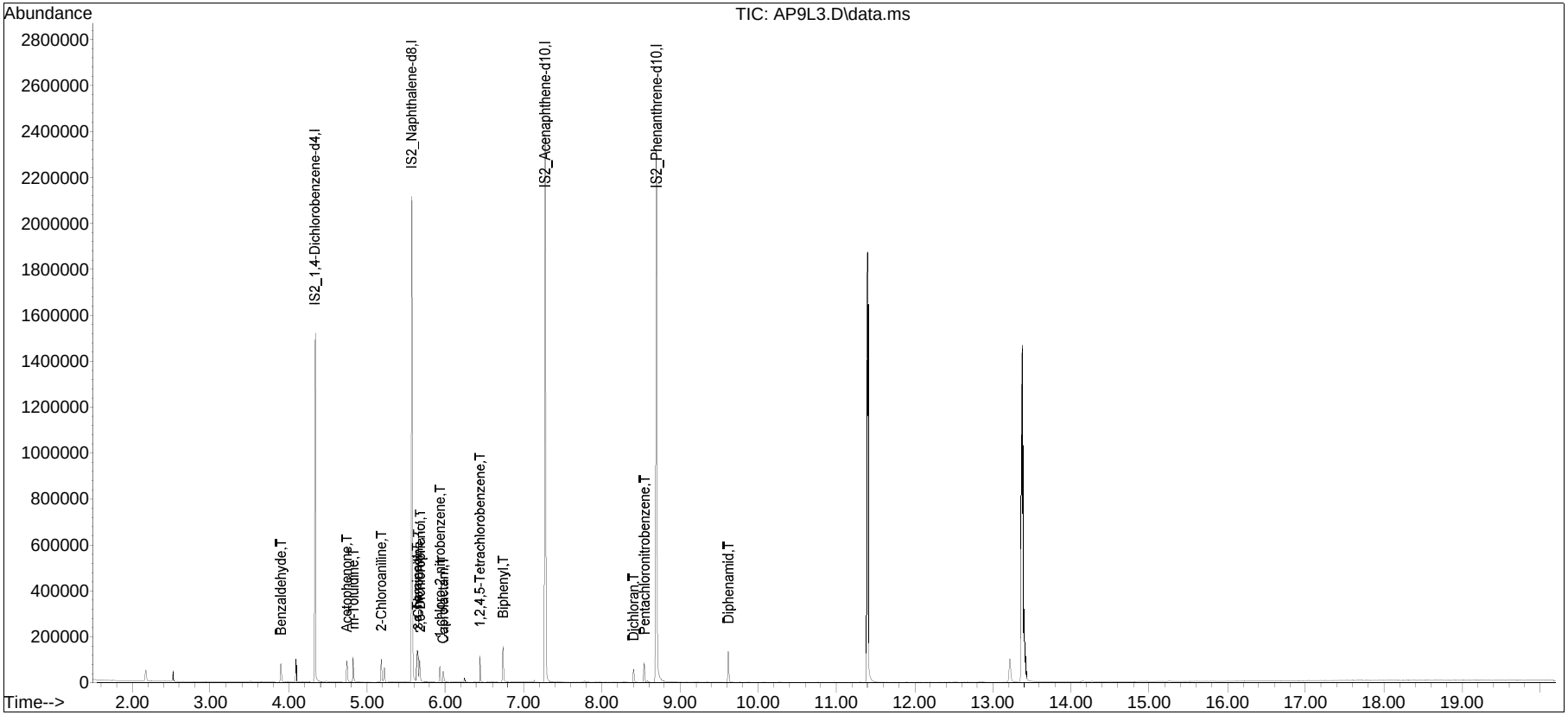
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : AP9L3.D
Acq On : 4 Oct 2018 4:53 am
Operator : sv109:cb
Sample : IL18,32,,AP9L3 Lot# 7587
Misc : WG1164344,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Oct 04 09:42:30 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 08:57:06 2018
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistcal\AP9L7.D•



Manual Integration Report

Data Path	: I:\8270\SV109\181003nical\	QMethod	: FS1801003nSV109.m
Data File	: AP9L3.D	Operator	: sv109:cb
Date Inj'd	: 10/4/2018 4:53 am	Instrument	: SV109
Sample	: IL18,32,,AP9L3 Lot# 7587	Quant Date	: 10/4/2018 8:59 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : AP9L2.D
Acq On : 4 Oct 2018 5:18 am
Operator : sv109:cb
Sample : IL19,32,,AP9L2 Lot# 7586
Misc : WG1164344,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 04 09:41:56 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 08:57:06 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\181003nical\AP9L7.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.334	152	177734	40.000	ug/ml	0.00
Standard Area 1 = 185443			Recovery =	95.84%		
54) IS2_Naphthalene-d8	5.577	136	734255	40.000	ug/ml	0.00
Standard Area 1 = 784330			Recovery =	93.62%		
82) IS2_Acenaphthene-d10	7.274	164	369398	40.000	ug/ml	0.00
Standard Area 1 = 393571			Recovery =	93.86%		
97) IS2_Phenanthrene-d10	8.701	188	741024	40.000	ug/ml	0.00
Standard Area 1 = 799036			Recovery =	92.74%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	3.892	105	9279	1.798	ug/ml	93
29) Acetophenone	4.747	105	15116	1.699	ug/ml	98
30) m-Toluidine	4.828	106	15504	1.789	ug/ml	95
31) 2-Chloroaniline	5.185	127	14694	1.797	ug/ml	97
55) a-Terpineol	5.642	59	10541	1.869	ug/ml	92
56) 3-Chloroaniline	5.655	65	4886	1.797	ug/ml	82
57) 2,6-Dichlorophenol	5.680	162	8597	1.663	ug/ml	99
58) 1-chloro-2-nitrobenzene	5.934	111	4186	1.619	ug/ml	95
59) Caprolactam	5.975	55	4746	1.489	ug/ml#	92
60) 1,2,4,5-Tetrachloroben...	6.444	216	11586	1.975	ug/ml	94
61) Biphenyl	6.739	154	27900	1.876	ug/ml	99
83) Dichloran	8.402	206	2470	1.464	ug/ml	93
84) Pentachloronitrobenzene	8.548	237	2812	1.602	ug/ml	97
98) Diphenamid	9.614	167	17084	1.798	ug/ml	95

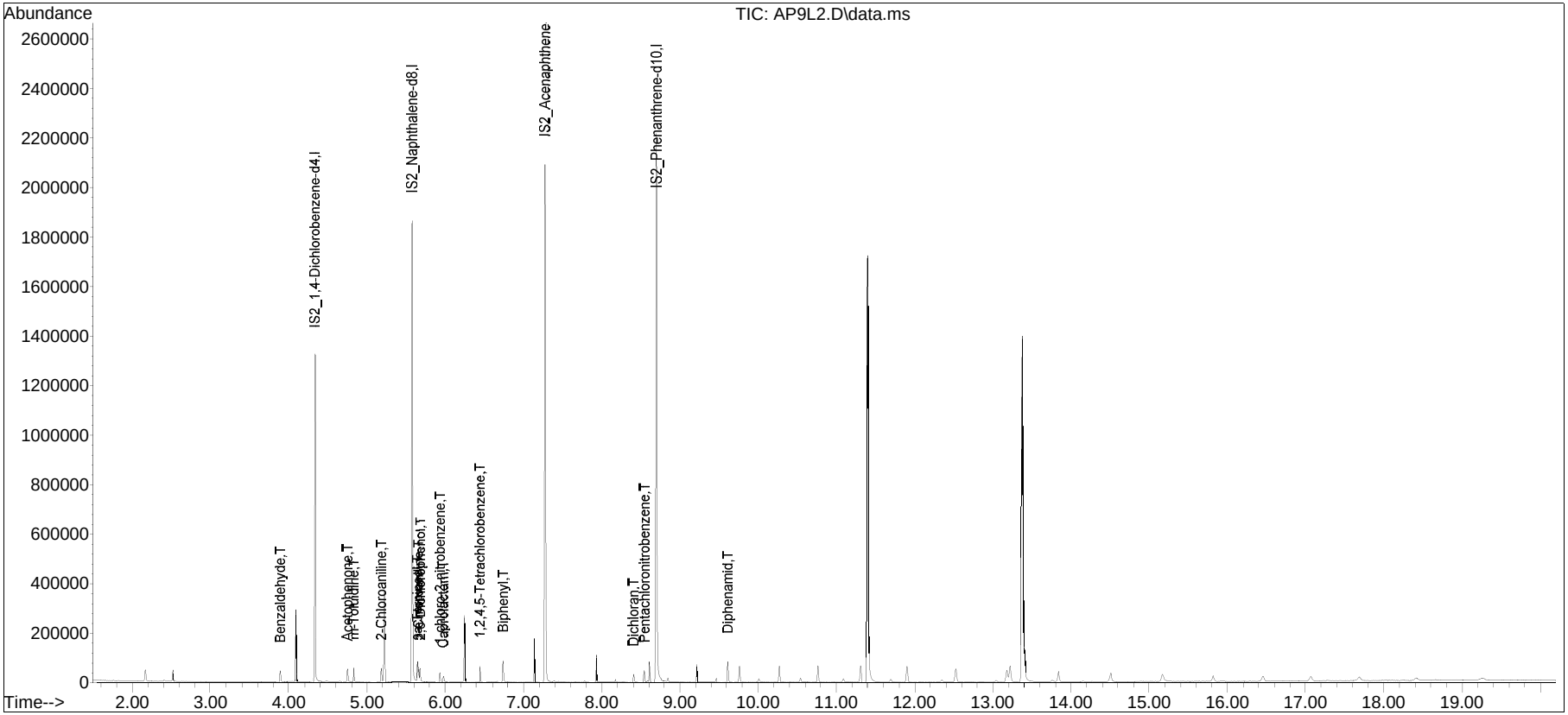
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : AP9L2.D
Acq On : 4 Oct 2018 5:18 am
Operator : sv109:cb
Sample : IL19,32,,AP9L2 Lot# 7586
Misc : WG1164344,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Oct 04 09:41:56 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 08:57:06 2018
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistcal\AP9L7.D•



Manual Integration Report

Data Path	: I:\8270\SV109\181003nical\	QMethod	: FS1801003nSV109.m
Data File	: AP9L2.D	Operator	: sv109:cb
Date Inj'd	: 10/4/2018 5:18 am	Instrument	: SV109
Sample	: IL19,32,,AP9L2 Lot# 7586	Quant Date	: 10/4/2018 8:59 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : AP9L1.D
Acq On : 4 Oct 2018 5:43 am
Operator : sv109:cb
Sample : IL20,32,,AP9L1 Lot# 7585
Misc : WG1164344,,
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Oct 04 09:40:38 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 08:57:06 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\181003nical\AP9L7.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.334	152	181861	40.000	ug/ml	0.00
Standard Area 1 = 185443			Recovery =	98.07%		
54) IS2_Naphthalene-d8	5.577	136	751083	40.000	ug/ml	0.00
Standard Area 1 = 784330			Recovery =	95.76%		
82) IS2_Acenaphthene-d10	7.277	164	386226	40.000	ug/ml	0.00
Standard Area 1 = 393571			Recovery =	98.13%		
97) IS2_Phenanthrene-d10	8.701	188	790251	40.000	ug/ml	0.00
Standard Area 1 = 799036			Recovery =	98.90%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	3.896	105	4670	0.884	ug/ml	98
29) Acetophenone	4.747	105	7127	0.783	ug/ml#	90
30) m-Toluidine	4.828	106	6919	0.780	ug/ml	95
31) 2-Chloroaniline	5.185	127	7550	0.902	ug/ml	96
55) a-Terpineol	5.642	59	5106	0.885	ug/ml	92
56) 3-Chloroaniline	5.655	65	2159	0.776	ug/ml	94
57) 2,6-Dichlorophenol	5.680	162	4268	0.807	ug/ml	89
58) 1-chloro-2-nitrobenzene	5.934	111	2307	0.872	ug/ml	91
59) Caprolactam	5.981	55	2335	0.716	ug/ml	98
60) 1,2,4,5-Tetrachloroben...	6.447	216	5533	0.922	ug/ml	96
61) Biphenyl	6.739	154	13440	0.884	ug/ml	99
83) Dichloran	8.409	206	1051	0.596	ug/ml	97
84) Pentachloronitrobenzene	8.551	237	1122	0.611	ug/ml#	79
98) Diphenamid	9.618	167	8509	0.840	ug/ml	98

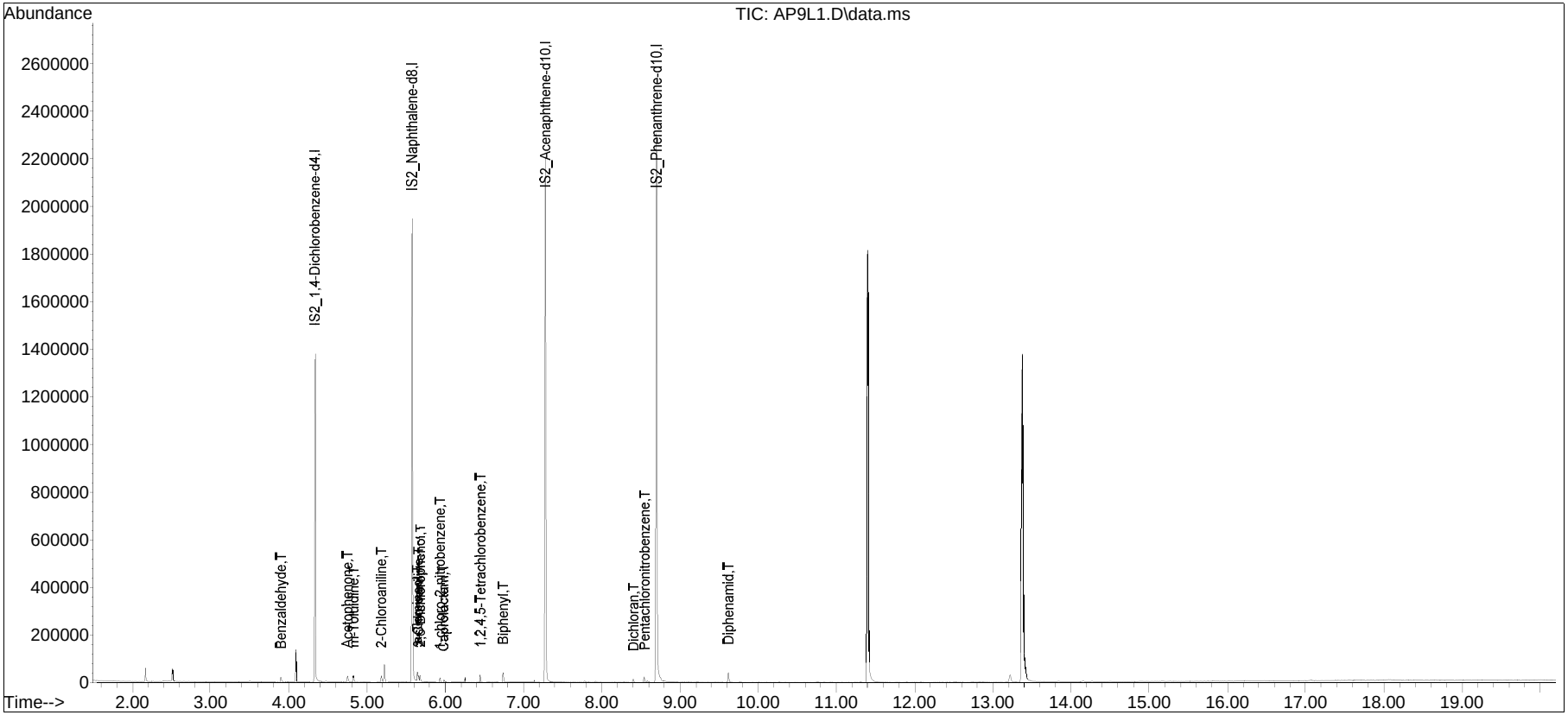
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : AP9L1.D
Acq On : 4 Oct 2018 5:43 am
Operator : sv109:cb
Sample : IL20,32,,AP9L1 Lot# 7585
Misc : WG1164344,,
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Oct 04 09:40:38 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 08:57:06 2018
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistcal\AP9L7.D•



Manual Integration Report

Data Path	: I:\8270\SV109\181003nical\	QMethod	: FS1801003nSV109.m
Data File	: AP9L1.D	Operator	: sv109:cb
Date Inj'd	: 10/4/2018 5:43 am	Instrument	: SV109
Sample	: IL20,32,,AP9L1 Lot# 7585	Quant Date	: 10/4/2018 8:59 am

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV109\181003nical\
Data File : ABNICV.D
Acq On : 4 Oct 2018 6:09 am
Operator : sv109:cb
Sample : CQICV1,32,,ABNICV Lot# 7583
Misc : WG1164344,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 04 16:41:05 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 16:40:57 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	IS1_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	93	0.00
2	t	n-Nitrosodimethylamine	0.832	0.798	4.1	89	0.00
3	t	Pyridine	1.434	1.409	1.7	90	0.00
4	S	2-Fluorophenol	1.236	1.246	-0.8	91	0.00
5	T	Aniline	2.063	2.045	0.9	92	0.00
6	t	2-Chlorophenol	1.426	1.419	0.5	91	0.00
7	S	Phenol-d6	1.536	1.513	1.5	90	0.00
8	T	Phenol	1.655	1.618	2.2	90	0.00
9	T	Bis(2-chloroethyl)ether	1.336	1.292	3.3	90	0.00
10	T	1,3-Dichlorobenzene	1.604	1.567	2.3	91	0.00
11	T	1,4-Dichlorobenzene	1.649	1.559	5.5	90	0.00
12	T	1,2-Dichlorobenzene	1.595	1.540	3.4	91	0.00
13	t	Benzyl alcohol	1.108	1.122	-1.3	90	0.00
14	T	Bis(2-chloroisopropyl)ether	2.247	2.154	4.1	90	0.00
15	T	2-Methylphenol	1.248	1.241	0.6	92	0.00
16	T	Hexachloroethane	0.661	0.626	5.3	90	0.00
17	T	n-Nitrosodi-n-propylamine	0.970	0.962	0.8	91	0.00
18	T	3-Methylphenol/4-Methylphen	1.301	1.302	-0.1	91	0.00
19	S	Nitrobenzene-d5	1.445	1.402	3.0	89	0.00
20	T	Nitrobenzene	1.476	1.442	2.3	89	0.00
21	T	Isophorone	2.640	2.608	1.2	91	0.00
22	T	2-Nitrophenol	0.695	0.698	-0.4	86	0.00
23	T	2,4-Dimethylphenol	1.262	1.338	-6.0	94	0.00
24	T	Bis(2-chloroethoxy)methane	1.706	1.665	2.4	89	0.00
25	T	2,4-Dichlorophenol	1.178	1.198	-1.7	91	0.00
26	T	1,2,4-Trichlorobenzene	1.373	1.329	3.2	91	0.00
34	I	IS1_Naphthalene-d8	1.000	1.000	0.0	95	0.00
35	T	Naphthalene	1.043	1.001	4.0	92	0.00
36	T	Benzoic Acid	* 50.000	44.522	11.0	87	0.00
37	T	4-Chloroaniline	0.131	0.130	0.8	91	0.00
38	T	Hexachlorobutadiene	0.194	0.187	3.6	91	0.00
39	T	p-Chloro-m-cresol	0.280	0.280	0.0	89	0.00
40	T	2-Methylnaphthalene	0.694	0.672	3.2	91	0.00
41	T	1-Methylnaphthalene	0.245	0.235	4.1	91	0.00
42	T	Hexachlorocyclopentadiene	0.230	0.211	8.3	86	0.00
43	T	2,4,6-Trichlorophenol	0.202	0.205	-1.5	90	0.00
44	T	2,4,5-Trichlorophenol	0.217	0.221	-1.8	92	0.00
45	S	2-Fluorobiphenyl	0.770	0.754	2.1	92	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV109\181003nical\
Data File : ABNICV.D
Acq On : 4 Oct 2018 6:09 am
Operator : sv109:cb
Sample : CQICV1,32,,ABNICV Lot# 7583
Misc : WG1164344,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 04 16:41:05 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 16:40:57 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
46	T	2-Chloronaphthalene		0.652	0.639	2.0	91	0.00
47	T	2-Nitroaniline		0.206	0.210	-1.9	89	0.00
48	T	1,4-Dinitrobenzene		0.095	0.088	7.4	84	0.00
49	T	1,3-Dinitrobenzene		0.111	0.107	3.6	88	0.00
50	T	Dimethyl phthalate		0.772	0.760	1.6	91	0.00
51	T	Acenaphthylene		1.050	1.029	2.0	91	0.00
52	T	2,6-Dinitrotoluene		0.161	0.163	-1.2	90	0.00
53	T	1,2-Dinitrobenzene		0.072	0.069	4.2	88	0.00
62	I	IS1_Acenaphthene-d10		1.000	1.000	0.0	93	0.00
63	T	3-Nitroaniline		0.369	0.382	-3.5	89	0.00
64	T	Acenaphthene		1.223	1.191	2.6	92	0.00
65	T	2,4-Dinitrophenol	*	50.000	40.308	19.4	79	0.00
66	T	Dibenzofuran		1.919	1.873	2.4	91	0.00
67	T	2,4-Dinitrotoluene		0.430	0.446	-3.7	88	0.00
68	T	4-Nitrophenol		0.307	0.309	-0.7	89	0.00
69	T	2,3,5,6-Tetrachlorophenol		0.371	0.383	-3.2	89	0.00
70	T	2,3,4,6-Tetrachlorophenol		0.393	0.402	-2.3	93	0.00
71	T	Diethyl phthalate		1.609	1.628	-1.2	91	0.00
72	T	Fluorene		1.483	1.463	1.3	91	0.00
73	T	4-Chlorophenyl phenyl ether		0.717	0.718	-0.1	92	0.00
74	T	4-Nitroaniline		0.366	0.379	-3.6	88	0.00
75	T	4,6-Dinitro-o-cresol	*	50.000	40.679	18.6	77	0.00
76	T	NDPA/DPA		1.257	1.260	-0.2	91	0.00
77	T	Azobenzene		1.532	1.533	-0.1	91	0.00
78	S	2,4,6-Tribromophenol		0.265	0.275	-3.8	91	0.00
79	T	4-Bromophenyl phenyl ether		0.438	0.421	3.9	90	0.00
80	T	Hexachlorobenzene		0.542	0.532	1.8	92	0.00
81	T	Pentachlorophenol	*	50.000	45.442	9.1	90	0.00
87	I	IS1_Phenanthrene-d10		1.000	1.000	0.0	94	0.00
88	T	Phenanthrene		1.130	1.088	3.7	91	0.00
89	T	Anthracene		1.122	1.123	-0.1	92	0.00
90	T	Carbazole		1.043	1.040	0.3	91	0.00
91	T	Di-n-butylphthalate		1.303	1.339	-2.8	90	0.00
92	T	Fluoranthene		1.196	1.171	2.1	90	0.00
93	T	Benzidine		0.750	0.715	4.7	85	0.00
94	T	Pyrene		1.257	1.224	2.6	90	0.00
95	S	4-Terphenyl-d14		0.940	0.840	10.6	81	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV109\181003nical\
Data File : ABNICV.D
Acq On : 4 Oct 2018 6:09 am
Operator : sv109:cb
Sample : CQICV1,32,,ABNICV Lot# 7583
Misc : WG1164344,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 04 16:41:05 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 16:40:57 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96	T	Butyl benzyl phthalate	0.566	0.575	-1.6	88	0.00
103	I	IS1_Chrysene-d12	1.000	1.000	0.0	92	0.00
104	T	Benzo(a)anthracene	1.227	1.085	11.6	83	0.00
105	T	3,3'-Dichlorobenzidine	0.482	0.492	-2.1	88	0.00
106	T	Chrysene	1.177	1.106	6.0	90	0.00
107	T	Bis(2-ethylhexyl)phthalate	0.800	0.841	-5.1	87	0.00
108	T	Di-n-octylphthalate	1.320	1.386	-5.0	86	0.00
109	T	Benzo(b)fluoranthene	1.108	1.071	3.3	87	0.00
110	T	Benzo(k)fluoranthene	1.229	1.161	5.5	90	0.00
111	T	Benzo(a)pyrene	1.118	1.072	4.1	87	0.00
112	I	IS1_Perylene-d12	1.000	1.000	0.0	92	0.00
113	T	Indeno(1,2,3-cd)pyrene	1.019	1.008	1.1	85	0.00
114	T	Dibenzo(a,h)anthracene	1.072	1.072	0.0	86	0.00
115	T	Benzo(ghi)perylene	1.140	1.108	2.8	87	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : ABNICV.D
Acq On : 4 Oct 2018 6:09 am
Operator : sv109:cb
Sample : CQICV1,32,,ABNICV Lot# 7583
Misc : WG1164344,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 04 16:41:05 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 16:40:57 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\181003nical\ABNL7.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.334	152	165733	40.000	ug/ml	0.00
Standard Area 1 = 177393			Recovery = 93.43%			
34) IS1_Naphthalene-d8	5.577	136	693517	40.000	ug/ml	0.00
Standard Area 1 = 728713			Recovery = 95.17%			
62) IS1_Acenaphthene-d10	7.277	164	342109	40.000	ug/ml	0.00
Standard Area 1 = 367597			Recovery = 93.07%			
87) IS1_Phenanthrene-d10	8.701	188	690245	40.000	ug/ml	0.00
Standard Area 1 = 730814			Recovery = 94.45%			
103) IS1_Chrysene-d12	11.405	240	703894	40.000	ug/ml	0.00
Standard Area 1 = 764672			Recovery = 92.05%			
112) IS1_Perylene-d12	13.375	264	678412	40.000	ug/ml	0.00
Standard Area 1 = 738756			Recovery = 91.83%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.032	112	258172	50.411	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 130		Recovery = 100.82%			
7) Phenol-d6	4.026	99	313492	49.247	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 130		Recovery = 98.49%			
19) Nitrobenzene-d5	4.884	82	290505	48.510	ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery = 194.04%#			
45) 2-Fluorobiphenyl	6.653	172	653961	48.980	ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery = 195.92%#			
78) 2,4,6-Tribromophenol	8.039	330	117422	51.890	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 130		Recovery = 103.78%			
95) 4-Terphenyl-d14	10.283	244	724543	44.682	ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery = 178.73%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	1.621	74	165393	47.956	ug/ml	90
3) Pyridine	1.649	79	291881	49.118	ug/ml	93
5) Aniline	4.014	93	423668	49.560	ug/ml#	64
6) 2-Chlorophenol	4.126	128	293927	49.733	ug/ml	98
8) Phenol	4.039	94	335260	48.899	ug/ml#	60
9) Bis(2-chloroethyl)ether	4.104	93	267728	48.372	ug/ml	94
10) 1,3-Dichlorobenzene	4.272	146	324688	48.840	ug/ml	100
11) 1,4-Dichlorobenzene	4.350	146	322972	47.264	ug/ml	99
12) 1,2-Dichlorobenzene	4.496	146	319060	48.265	ug/ml	99
13) Benzyl alcohol	4.499	79	232419	50.627	ug/ml	97
14) Bis(2-chloroisopropyl)...	4.648	45	446155	47.919	ug/ml	91

Data Path : I:\8270\SV109\181003nical\
Data File : ABNICV.D
Acq On : 4 Oct 2018 6:09 am
Operator : sv109:cb
Sample : CQICV1,32,,ABNICV Lot# 7583
Misc : WG1164344,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 04 16:41:05 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 16:40:57 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\181003nical\ABNL7.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	4.632	108	257188	49.733	ug/ml	97
16) Hexachloroethane	4.825	117	129771	47.403	ug/ml	97
17) n-Nitrosodi-n-propylamine	4.772	70	199355	49.590	ug/ml	98
18) 3-Methylphenol/4-Methy...	4.794	108	269742	50.055	ug/ml	96
20) Nitrobenzene	4.903	77	298701	48.845	ug/ml	99
21) Isophorone	5.148	82	540345	49.402	ug/ml	99
22) 2-Nitrophenol	5.220	139	144524	50.221	ug/ml	95
23) 2,4-Dimethylphenol	5.307	107	277170	52.995	ug/ml	96
24) Bis(2-chloroethoxy)met...	5.394	93	344972	48.795	ug/ml	97
25) 2,4-Dichlorophenol	5.459	162	248140	50.847	ug/ml	99
26) 1,2,4-Trichlorobenzene	5.534	180	275352	48.397	ug/ml	98
35) Naphthalene	5.596	128	867997	48.010	ug/ml	100
36) Benzoic Acid	5.428	105	198628	44.522	ug/ml	98
37) 4-Chloroaniline	5.677	65	113021	49.783	ug/ml	92
38) Hexachlorobutadiene	5.751	225	162121	48.158	ug/ml	99
39) p-Chloro-m-cresol	6.180	107	242646	50.030	ug/ml	98
40) 2-Methylnaphthalene	6.277	142	582554	48.442	ug/ml	97
41) 1-Methylnaphthalene	6.370	115	204015	48.048	ug/ml	86
42) Hexachlorocyclopentadiene	6.447	237	183232	45.908	ug/ml	100
43) 2,4,6-Trichlorophenol	6.569	196	177359	50.709	ug/ml	99
44) 2,4,5-Trichlorophenol	6.597	196	191339	50.933	ug/ml	98
46) 2-Chloronaphthalene	6.743	162	554064	48.983	ug/ml	100
47) 2-Nitroaniline	6.858	138	181648	50.791	ug/ml	97
48) 1,4-Dinitrobenzene	6.998	168	75902	46.268	ug/ml	100
49) 1,3-Dinitrobenzene	7.072	168	92466	48.078	ug/ml	98
50) Dimethyl phthalate	7.069	163	659102	49.227	ug/ml	99
51) Acenaphthylene	7.134	152	891985	48.993	ug/ml	100
52) 2,6-Dinitrotoluene	7.110	165	141068	50.674	ug/ml	94
53) 1,2-Dinitrobenzene	7.150	168	59689	47.795	ug/ml	96
63) 3-Nitroaniline	7.259	138	163267	51.686	ug/ml#	98
64) Acenaphthene	7.308	154	509251	48.682	ug/ml	99
65) 2,4-Dinitrophenol	7.361	184	65146	40.308	ug/ml	96
66) Dibenzofuran	7.476	168	800846	48.804	ug/ml	98
67) 2,4-Dinitrotoluene	7.492	165	190700	51.834	ug/ml	100
68) 4-Nitrophenol	7.458	65	132078	50.261	ug/ml	85
69) 2,3,5,6-Tetrachlorophenol	7.570	232	163834	51.621	ug/ml	99
70) 2,3,4,6-Tetrachlorophenol	7.610	232	171802	51.086	ug/ml	99
71) Diethyl phthalate	7.759	149	696081	50.596	ug/ml	99
72) Fluorene	7.806	166	625639	49.342	ug/ml	98
73) 4-Chlorophenyl phenyl ...	7.834	204	307123	50.084	ug/ml	99

Data Path : I:\8270\SV109\181003nical\
Data File : ABNICV.D
Acq On : 4 Oct 2018 6:09 am
Operator : sv109:cb
Sample : CQICV1,32,,ABNICV Lot# 7583
Misc : WG1164344,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 04 16:41:05 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 16:40:57 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\181003nical\ABNL7.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74)	4-Nitroaniline	7.846	138	162226	51.824	ug/ml	94
75)	4,6-Dinitro-o-cresol	7.880	198	85938	40.679	ug/ml	98
76)	NDPA/DPA	7.952	169	538868	50.125	ug/ml	99
77)	Azobenzene	7.983	77	655361	50.031	ug/ml	99
79)	4-Bromophenyl phenyl e...	8.297	248	180108	48.134	ug/ml	99
80)	Hexachlorobenzene	8.340	284	227510	49.048	ug/ml	98
81)	Pentachlorophenol	8.536	266	130352	45.442	ug/ml	99
88)	Phenanthrene	8.723	178	938352	48.117	ug/ml	99
89)	Anthracene	8.772	178	969207	50.076	ug/ml	98
90)	Carbazole	8.946	167	897602	49.866	ug/ml	100
91)	Di-n-butylphthalate	9.350	149	1155487	51.408	ug/ml	99
92)	Fluoranthene	9.870	202	1010725	48.988	ug/ml	98
93)	Benzidine	10.034	184	616964	47.646	ug/ml	98
94)	Pyrene	10.084	202	1056456	48.714	ug/ml	99
96)	Butyl benzyl phthalate	10.836	149	495804	50.739	ug/ml	99
104)	Benzo(a)anthracene	11.396	228	955027	44.224	ug/ml	99
105)	3,3'-Dichlorobenzidine	11.408	252	432709	51.057	ug/ml	98
106)	Chrysene	11.436	228	973207	46.994	ug/ml	99
107)	Bis(2-ethylhexyl)phtha...	11.588	149	739995	52.556	ug/ml	99
108)	Di-n-octylphthalate	12.502	149	1219717	52.514	ug/ml	100
109)	Benzo(b)fluoranthene	12.841	252	941998	48.313	ug/ml	98
110)	Benzo(k)fluoranthene	12.878	252	1021414	47.212	ug/ml	98
111)	Benzo(a)pyrene	13.292	252	943484	47.973	ug/ml	97
113)	Indeno(1,2,3-cd)pyrene	14.911	276	855017	49.492	ug/ml	96
114)	Dibenzo(a,h)anthracene	14.973	278	909036	50.018	ug/ml	97
115)	Benzo(ghi)perylene	15.275	276	939909	48.624	ug/ml	96

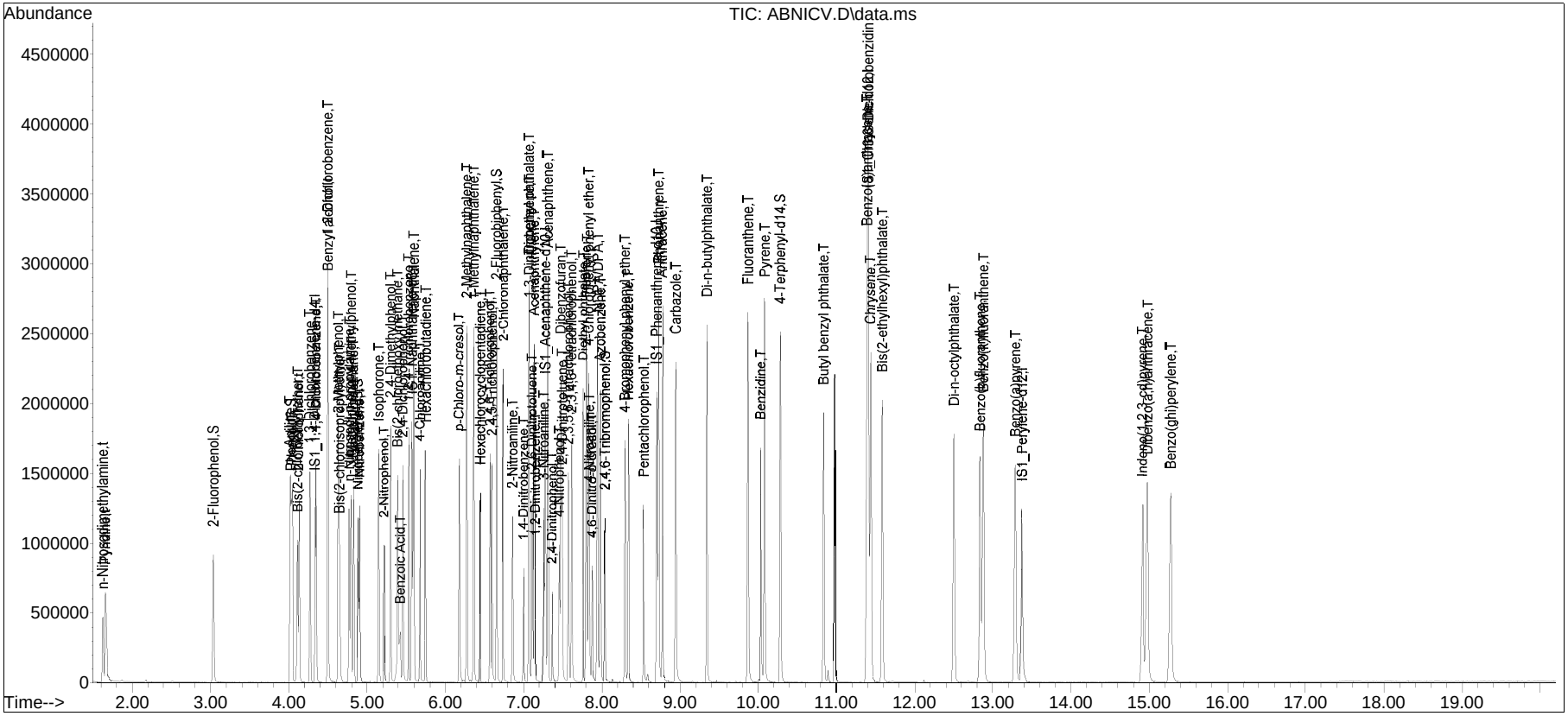
(#) = qualifier out of range (m) = manual integration (+) = signals summed

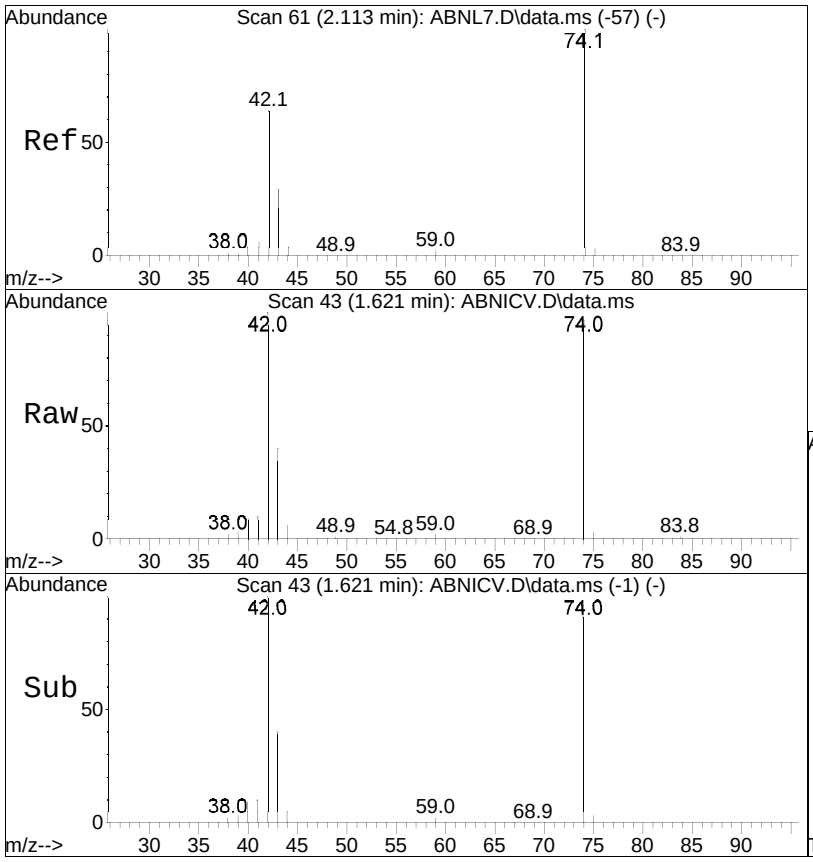
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : ABNICV.D
Acq On : 4 Oct 2018 6:09 am
Operator : sv109:cb
Sample : CQICV1,32,,ABNICV Lot# 7583
Misc : WG1164344,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Oct 04 16:41:05 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 16:40:57 2018
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublistcal\ABNL7.D•

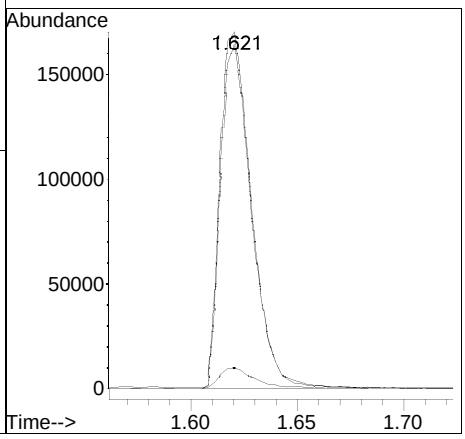


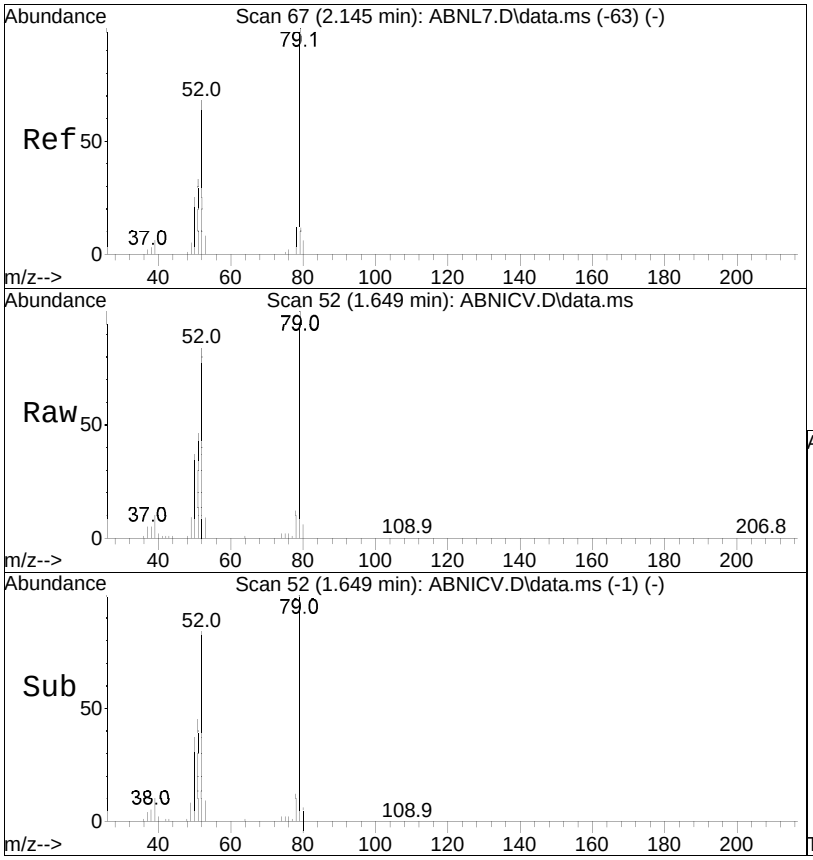


#2
n-Nitrosodimethylamine
Concen: 47.96 ug/ml
RT: 1.621 min Scan# 43
Delta R.T. 0.004 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion: 74 Resp: 165393

Ion	Ratio	Lower	Upper
74	100		
42	105.1	75.7	113.5
44	6.0	5.7	8.5

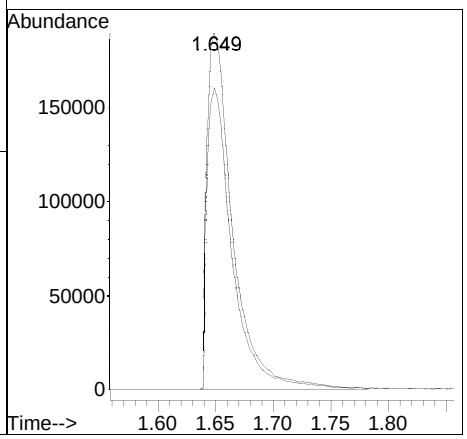


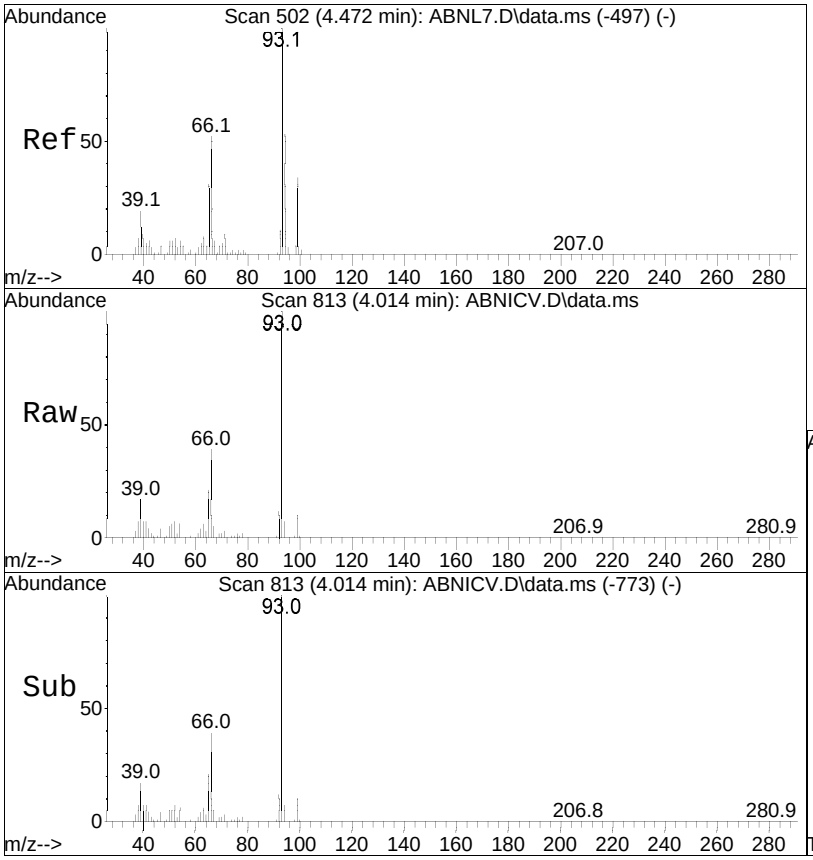


#3
Pyridine
Concen: 49.12 ug/ml
RT: 1.649 min Scan# 52
Delta R.T. 0.004 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion: 79 Resp: 291881

Ion	Ratio	Lower	Upper
79	100		
52	83.0	71.8	107.8

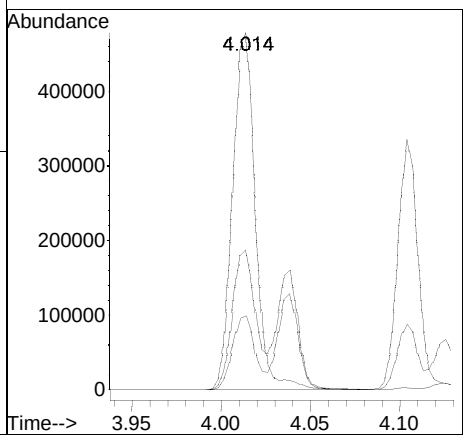


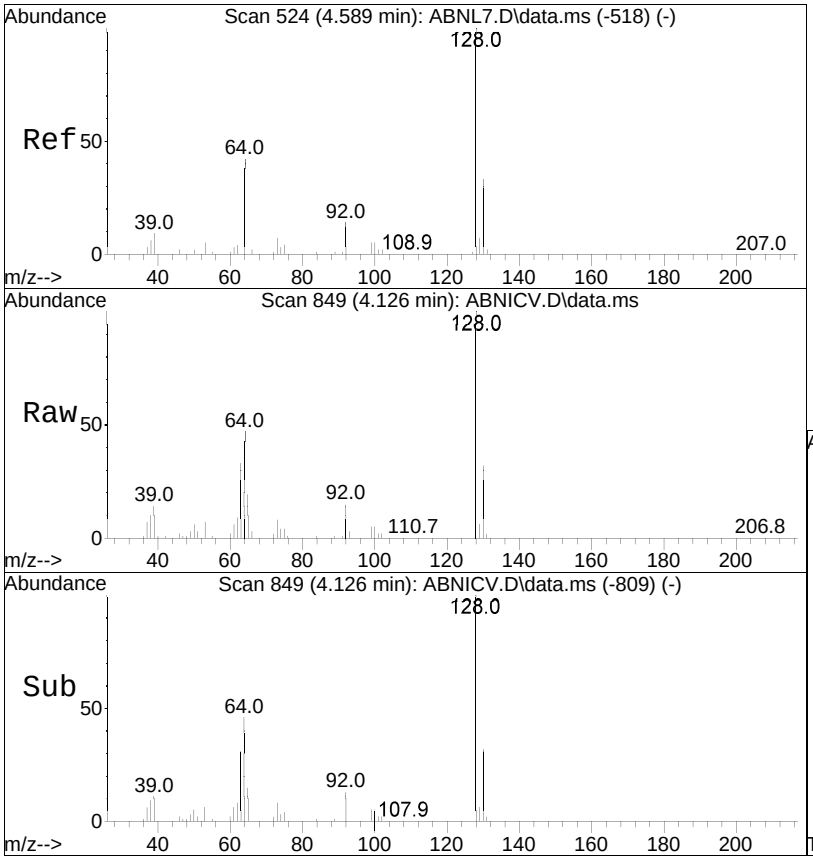


#5
Aniline
Concen: 49.56 ug/ml
RT: 4.014 min Scan# 813
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion: 93 Resp: 423668

Ion	Ratio	Lower	Upper
93	100		
66	41.1	57.0	85.4#
65	21.3	36.2	54.2#

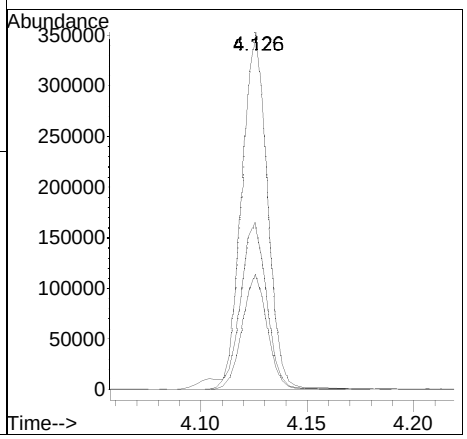


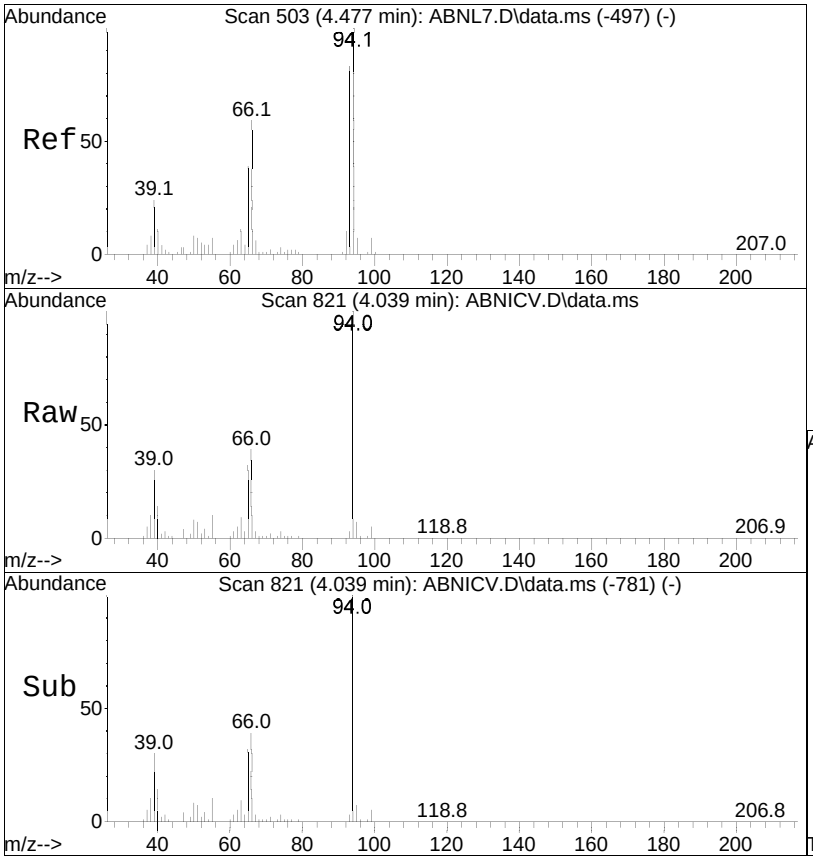


#6
2-Chlorophenol
Concen: 49.73 ug/ml
RT: 4.126 min Scan# 849
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion:128 Resp: 293927

Ion	Ratio	Lower	Upper
128	100		
64	49.8	38.1	57.1
130	31.8	25.7	38.5

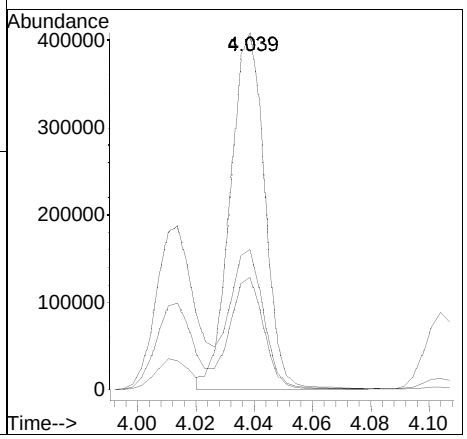


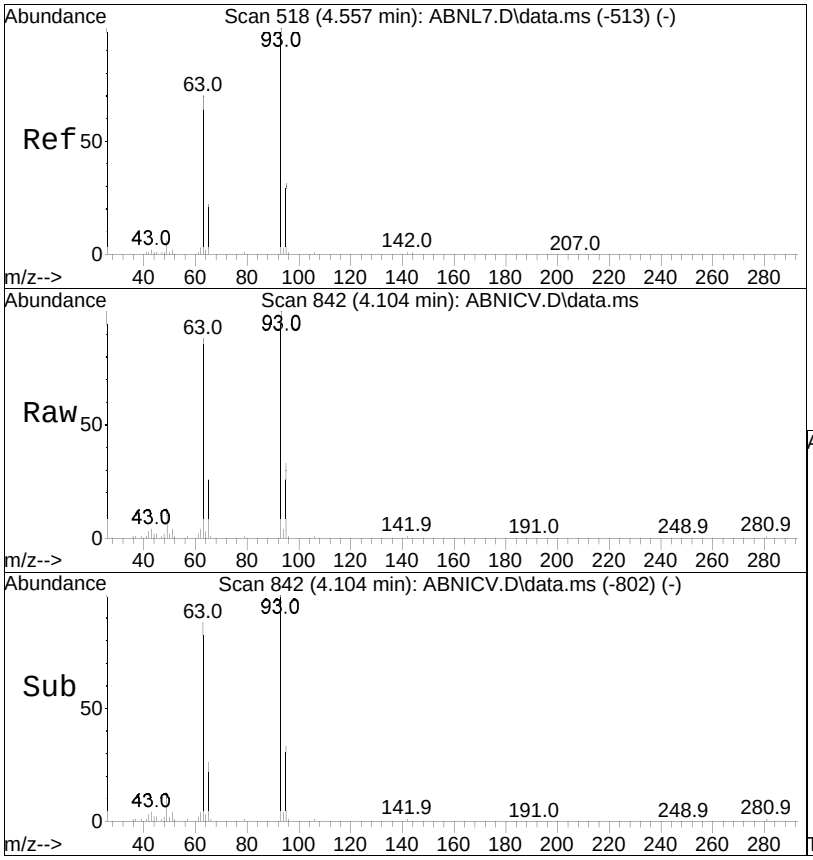


#8
Phenol
Concen: 48.90 ug/ml
RT: 4.039 min Scan# 821
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion: 94 Resp: 335260

Ion	Ratio	Lower	Upper
94	100		
65	30.3	40.7	61.1#
66	38.9	64.1	96.1#

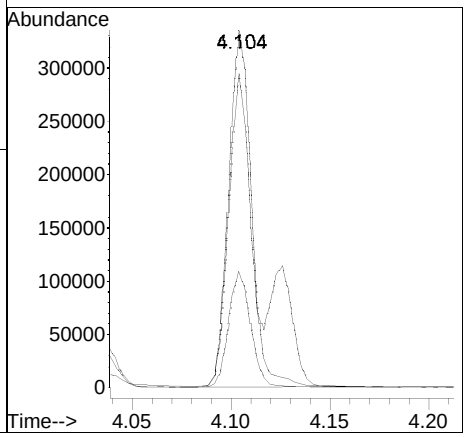


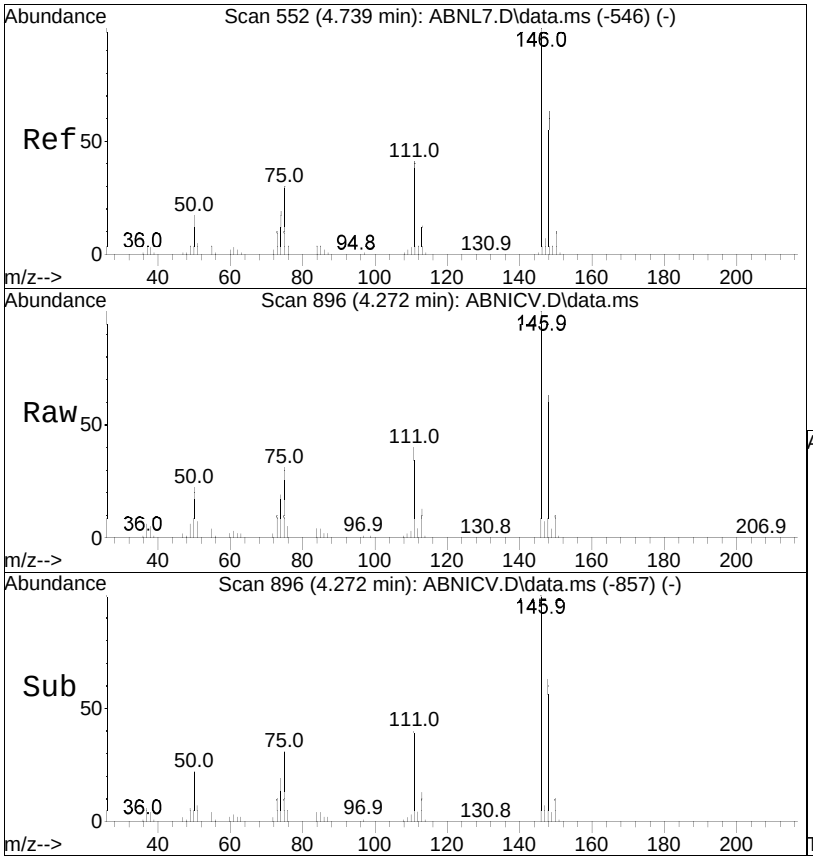


#9
Bis(2-chloroethyl)ether
Concen: 48.37 ug/ml
RT: 4.104 min Scan# 842
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion: 93 Resp: 267728

Ion	Ratio	Lower	Upper
93	100		
63	85.8	73.7	110.5
95	31.7	26.9	40.3

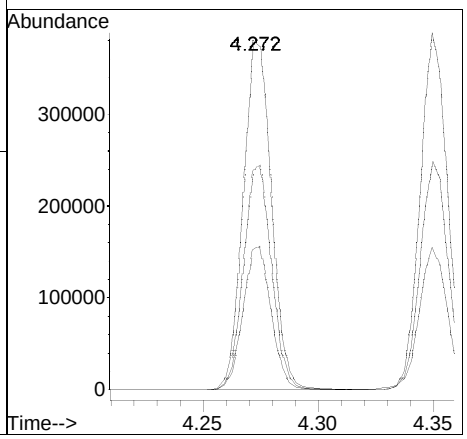


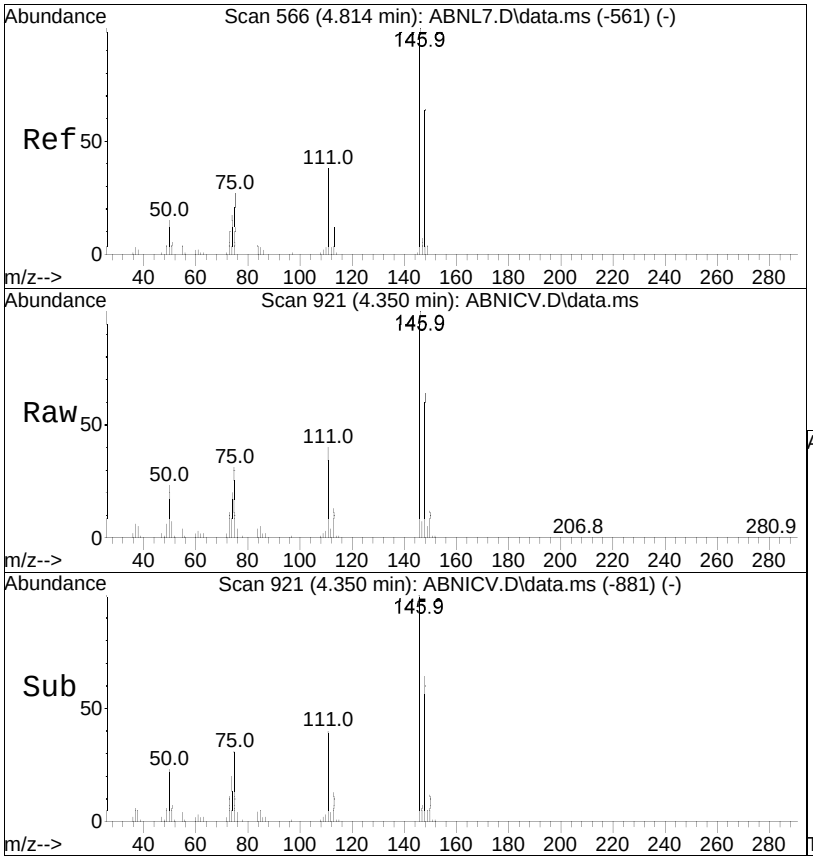


#10
1,3-Dichlorobenzene
Concen: 48.84 ug/ml
RT: 4.272 min Scan# 896
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion:146 Resp: 324688

Ion	Ratio	Lower	Upper
146	100		
111	40.8	33.0	49.4
148	63.9	51.0	76.6

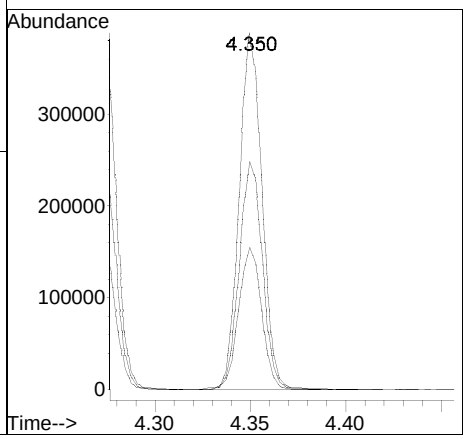


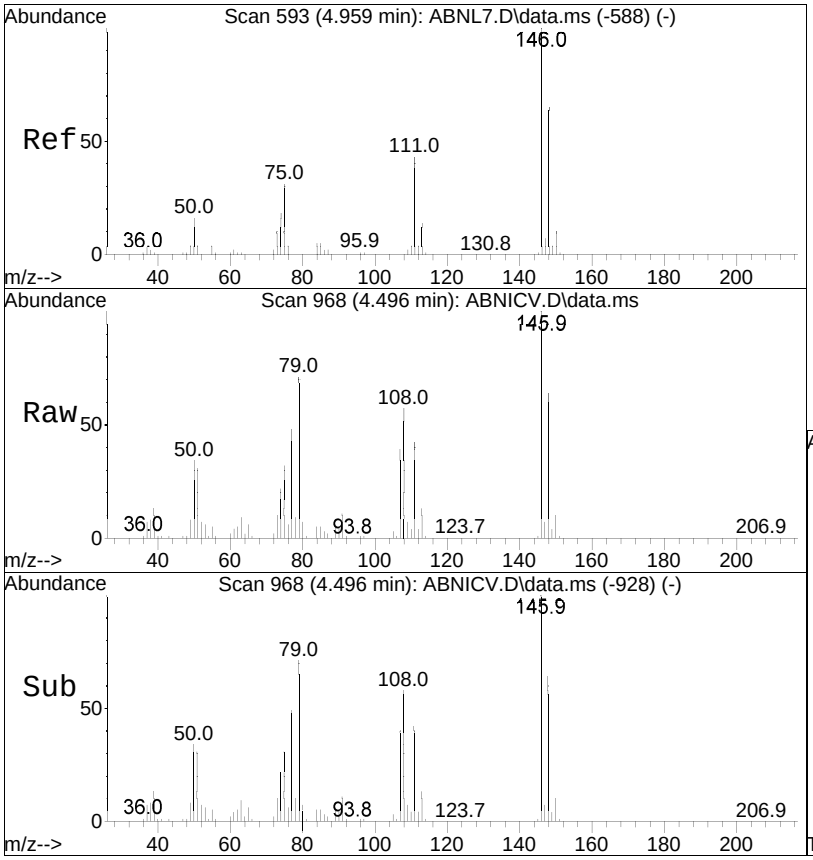


#11
1,4-Dichlorobenzene
Concen: 47.26 ug/ml
RT: 4.350 min Scan# 921
Delta R.T. 0.001 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion:146 Resp: 322972

Ion	Ratio	Lower	Upper
146	100		
148	64.9	51.4	77.0
111	40.6	31.8	47.8

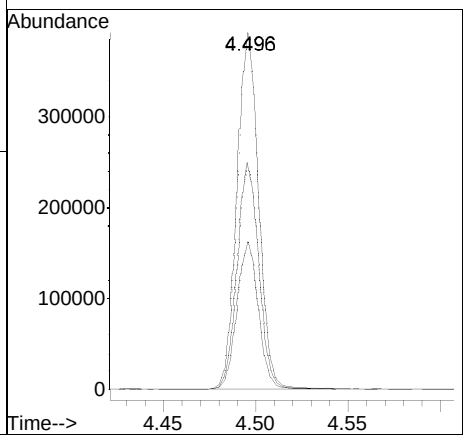


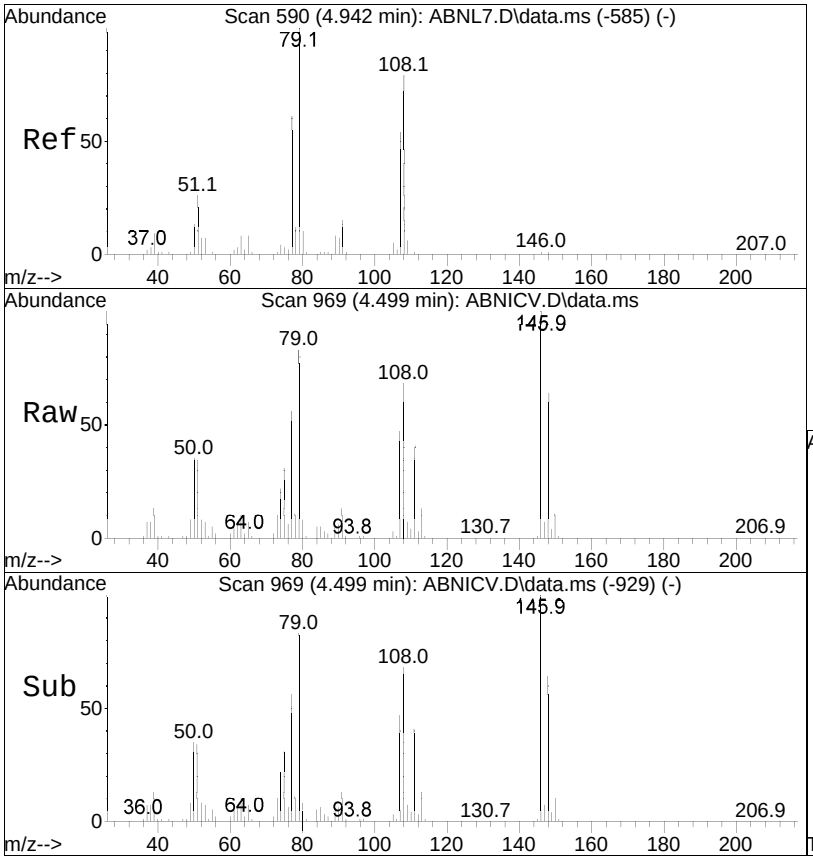


#12
1,2-Dichlorobenzene
Concen: 48.27 ug/ml
RT: 4.496 min Scan# 968
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion:146 Resp: 319060

Ion	Ratio	Lower	Upper
146	100		
111	41.3	32.8	49.2
148	63.9	51.4	77.2

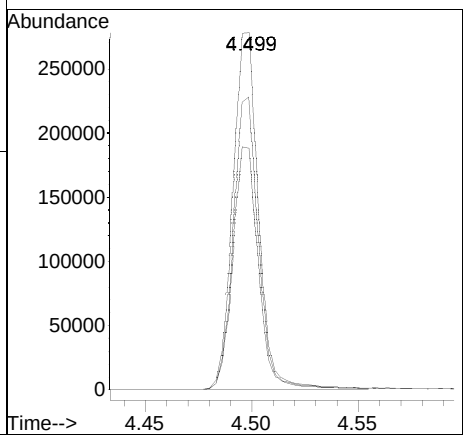


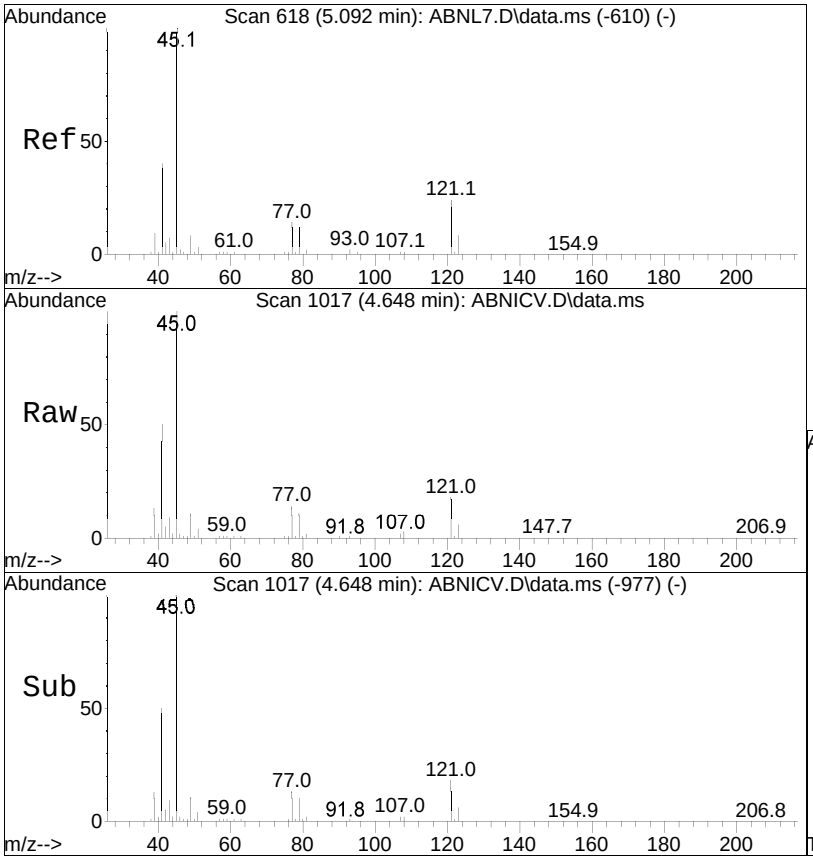


#13
Benzyl alcohol
Concen: 50.63 ug/ml
RT: 4.499 min Scan# 969
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion: 79 Resp: 232419

Ion	Ratio	Lower	Upper
79	100		
77	67.9	52.4	78.6
108	80.1	66.7	100.1

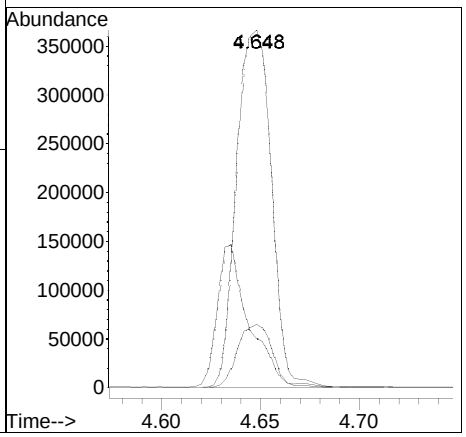


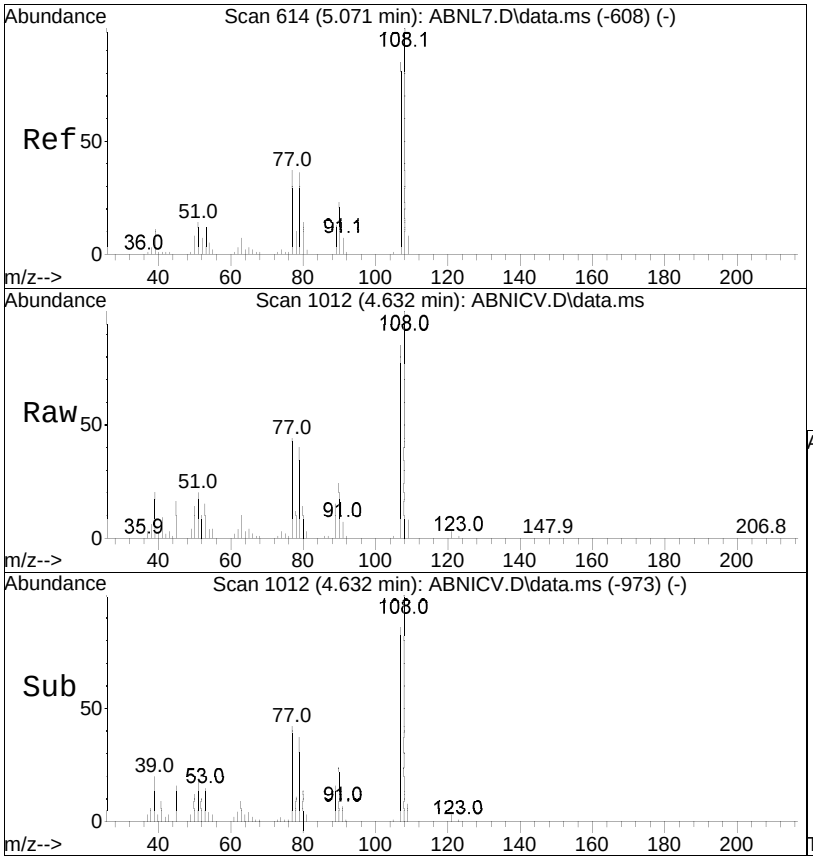


#14
Bis(2-chloroisopropyl)ether
Concen: 47.92 ug/ml
RT: 4.648 min Scan# 1017
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion: 45 Resp: 446155

Ion	Ratio	Lower	Upper
45	100		
121	17.6	12.6	19.0
77	36.7	24.6	37.0

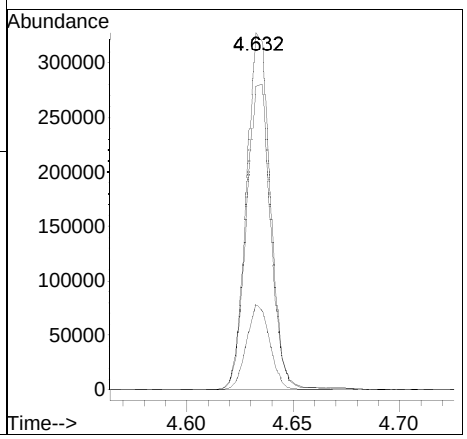


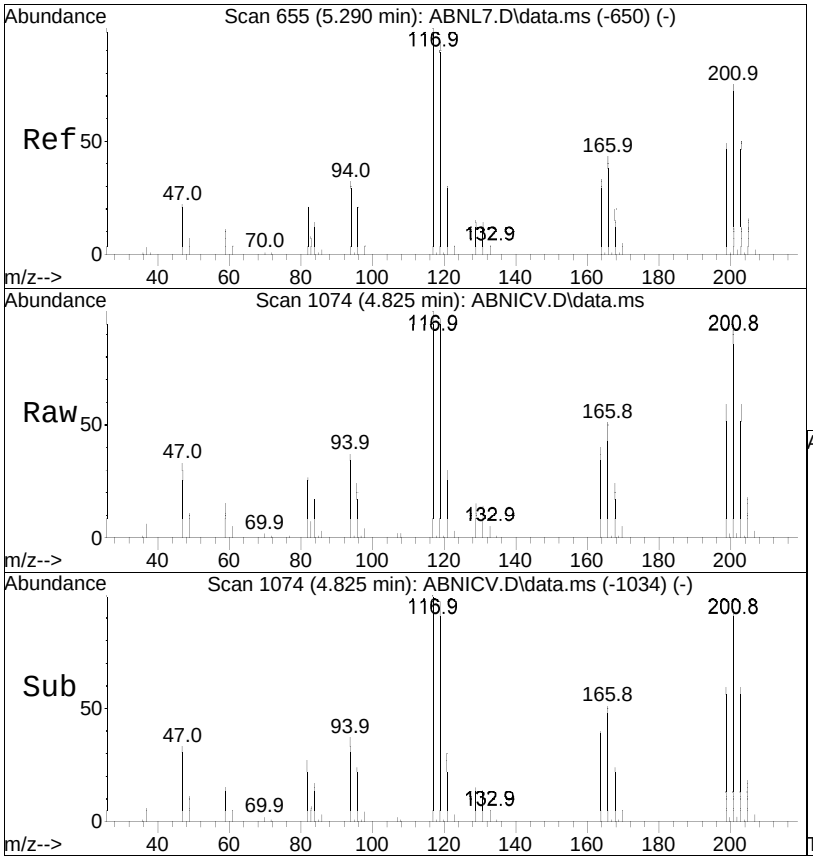


#15
2-Methylphenol
Concen: 49.73 ug/ml
RT: 4.632 min Scan# 1012
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion:108 Resp: 257188

Ion	Ratio	Lower	Upper
108	100		
107	86.8	72.6	108.8
90	23.5	19.2	28.8

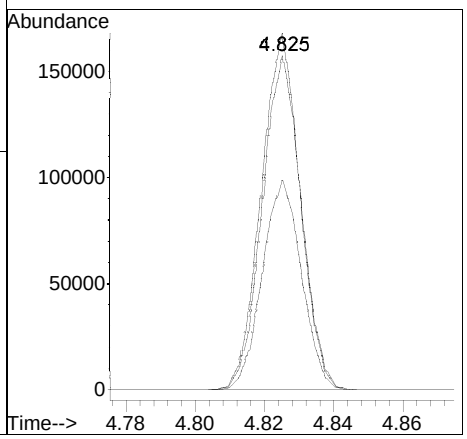


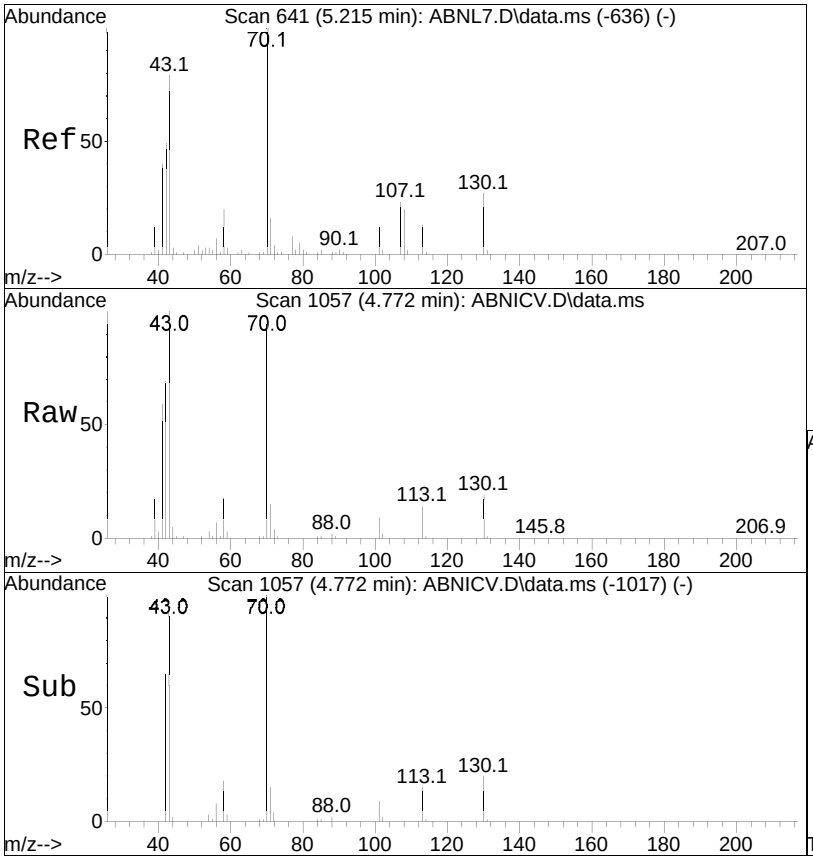


#16
Hexachloroethane
Concen: 47.40 ug/ml
RT: 4.825 min Scan# 1074
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion:117 Resp: 129771

Ion	Ratio	Lower	Upper
117	100		
201	94.2	72.7	109.1
199	59.5	46.2	69.2

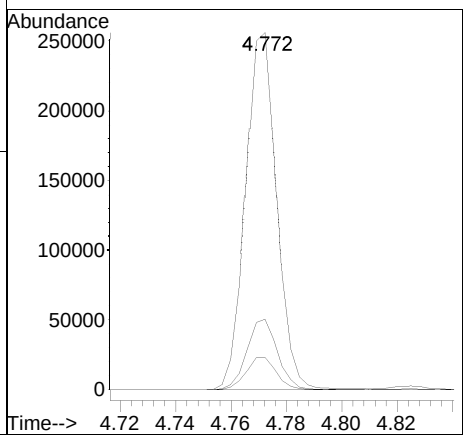


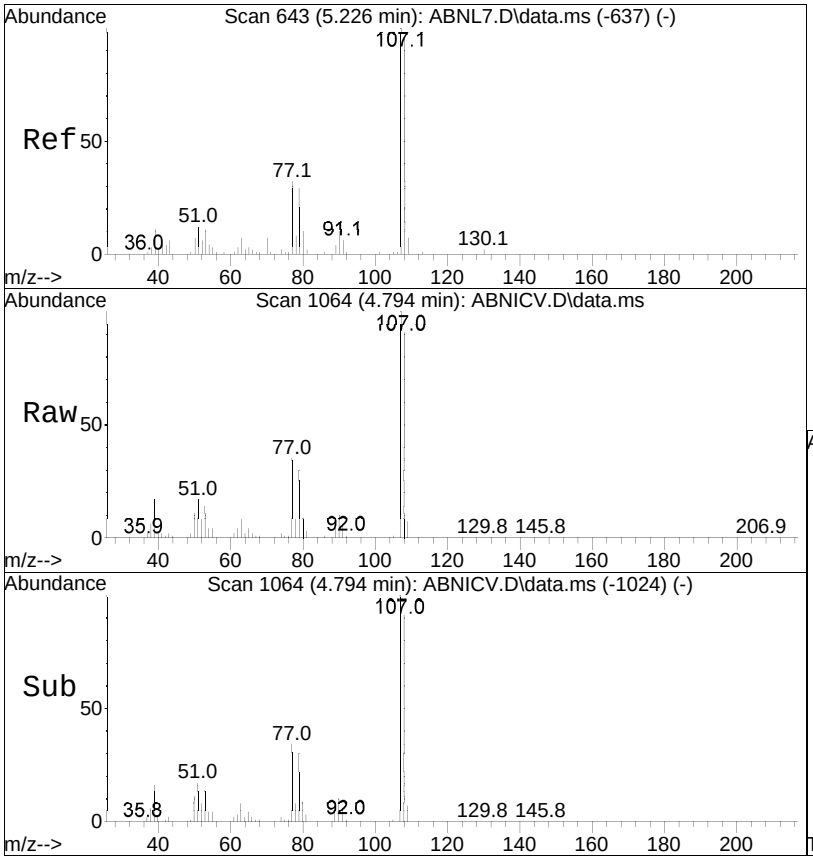


#17
n-Nitrosodi-n-propylamine
Concen: 49.59 ug/ml
RT: 4.772 min Scan# 1057
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion: 70 Resp: 199355

Ion	Ratio	Lower	Upper
70	100		
130	19.4	16.6	24.8
101	8.9	7.4	11.0

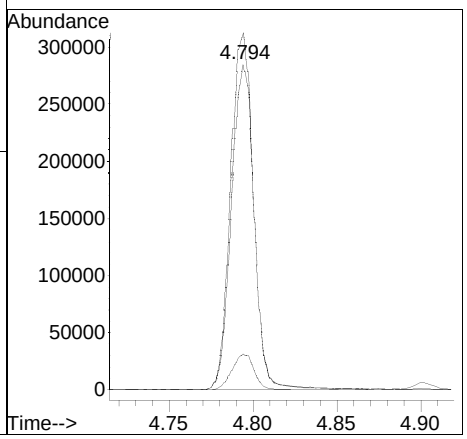


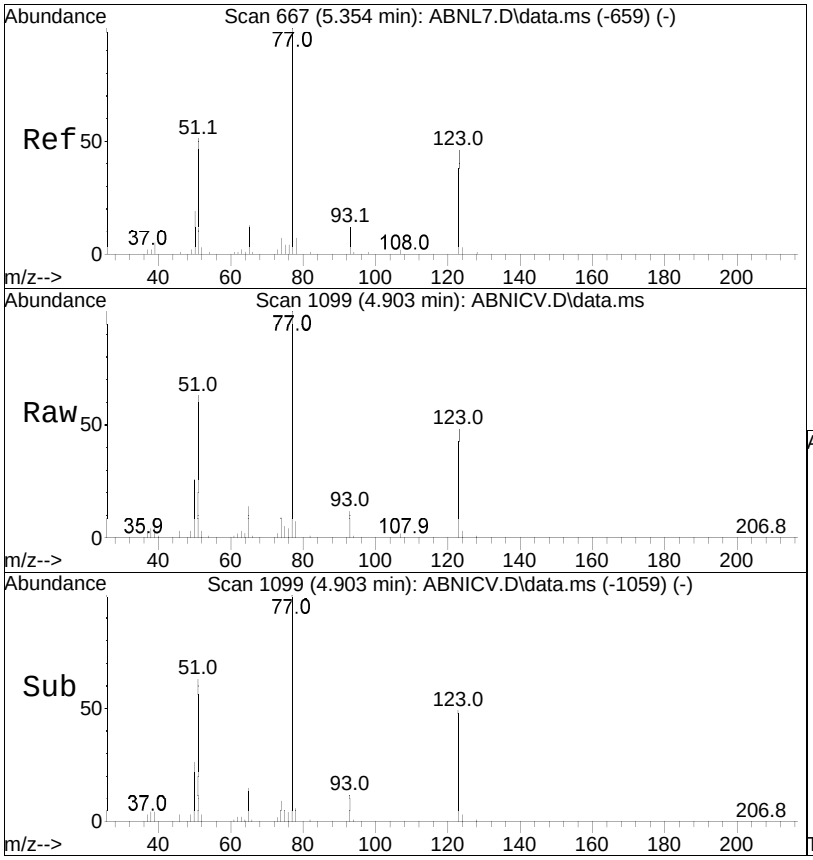


#18
3-Methylphenol/4-Methylphenol
Concen: 50.06 ug/ml
RT: 4.794 min Scan# 1064
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion:108 Resp: 269742

Ion	Ratio	Lower	Upper
108	100		
107	109.6	91.0	136.6
90	10.8	8.7	13.1

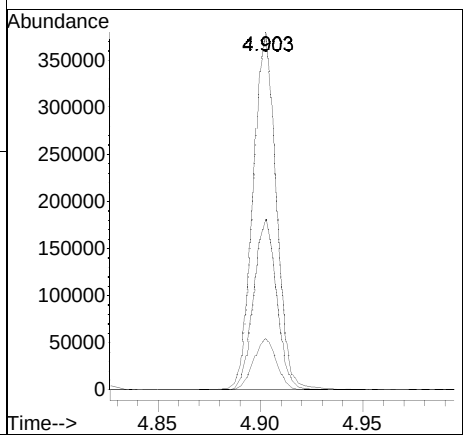


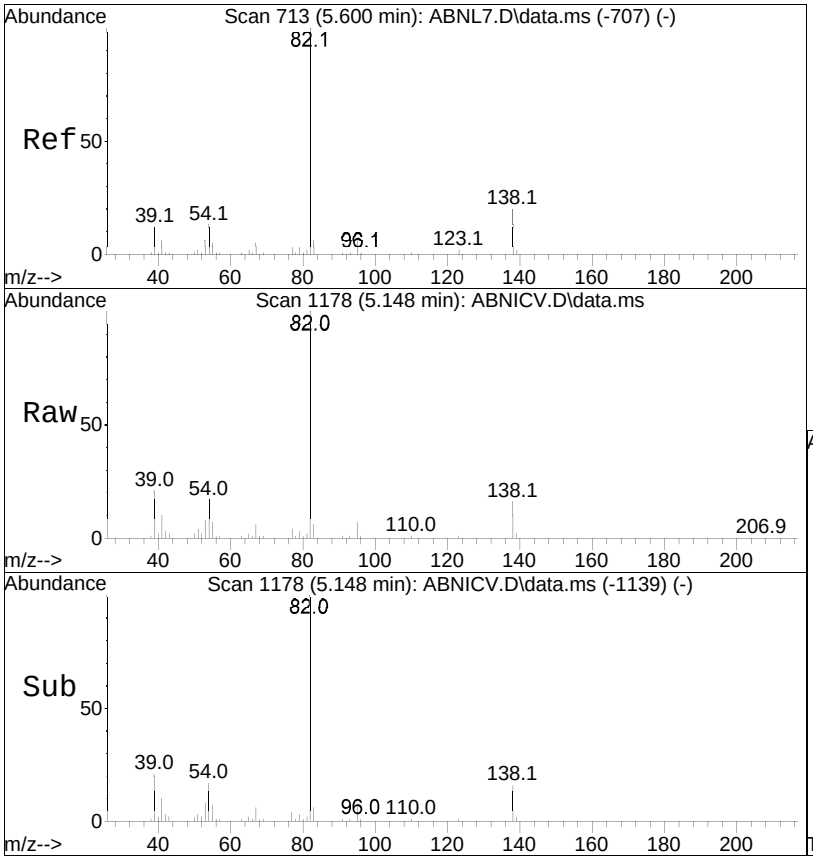


#20
Nitrobenzene
Concen: 48.84 ug/ml
RT: 4.903 min Scan# 1099
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion: 77 Resp: 298701

Ion	Ratio	Lower	Upper
77	100		
123	47.4	38.5	57.7
65	14.6	11.4	17.0

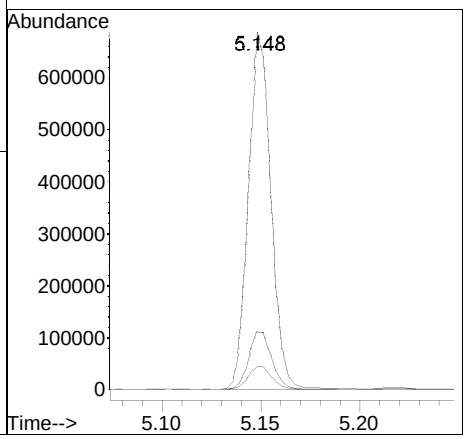


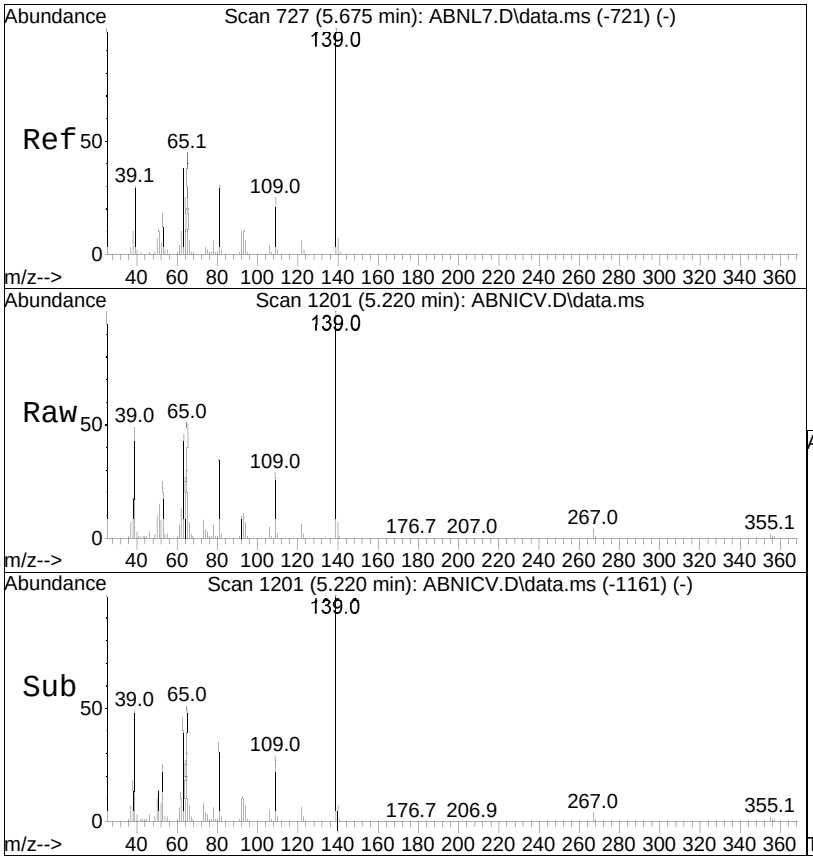


#21
Isophorone
Concen: 49.40 ug/ml
RT: 5.148 min Scan# 1178
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion: 82 Resp: 540345

Ion	Ratio	Lower	Upper
82	100		
138	16.7	13.6	20.4
95	6.9	5.1	7.7

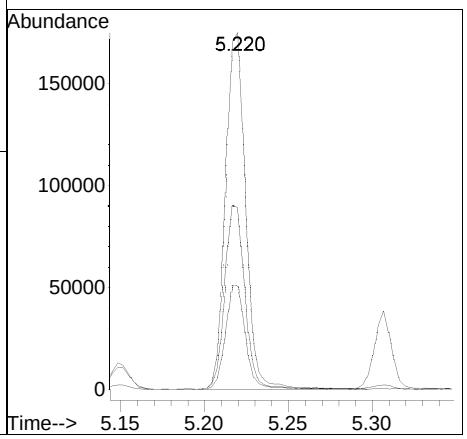


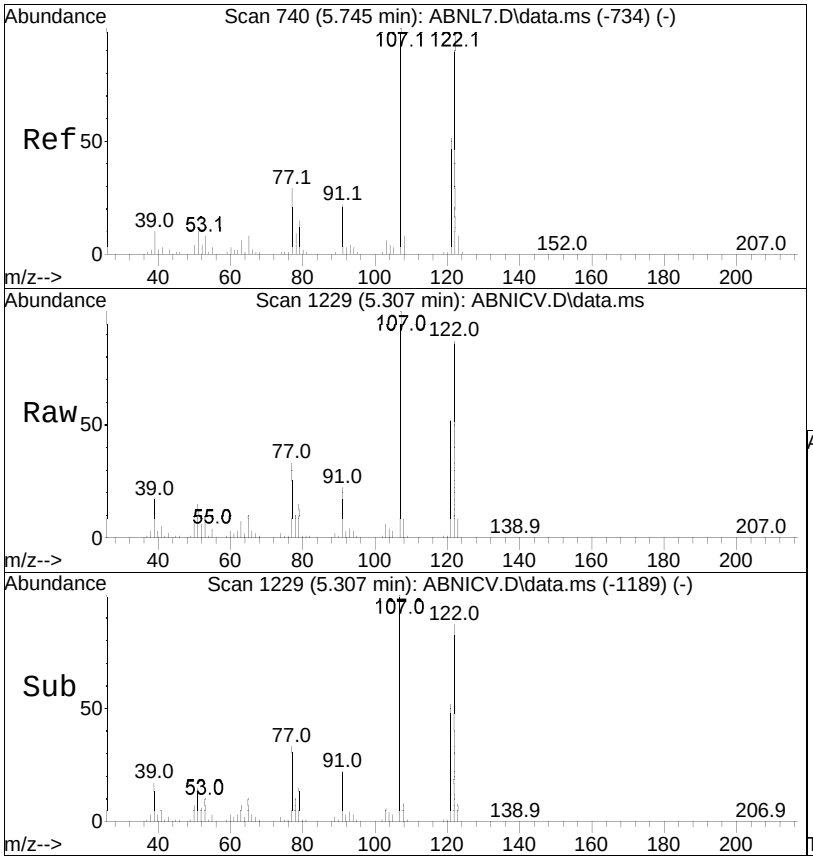


#22
2-Nitrophenol
Concen: 50.22 ug/ml
RT: 5.220 min Scan# 1201
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion:139 Resp: 144524

Ion	Ratio	Lower	Upper
139	100		
109	29.4	19.8	29.6
65	51.5	39.6	59.4

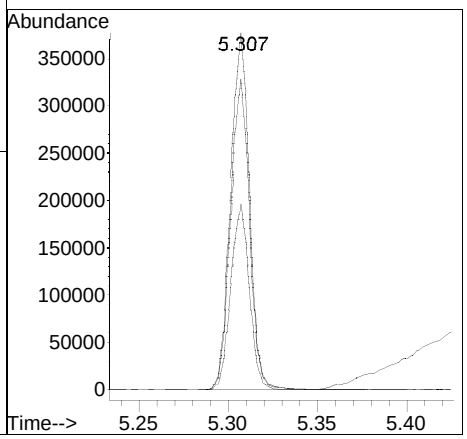


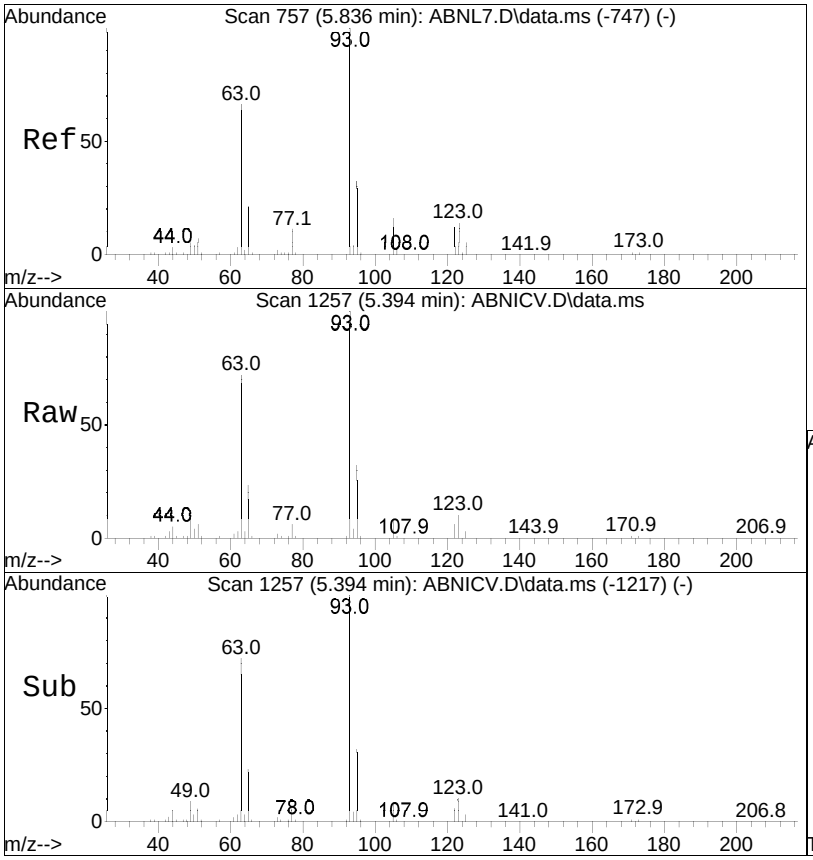


#23
2,4-Dimethylphenol
Concen: 52.99 ug/ml
RT: 5.307 min Scan# 1229
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion:107 Resp: 277170

Ion	Ratio	Lower	Upper
107	100		
121	51.2	43.0	64.4
122	86.3	71.8	107.8

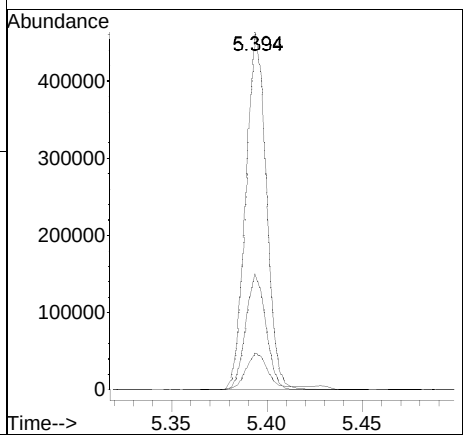


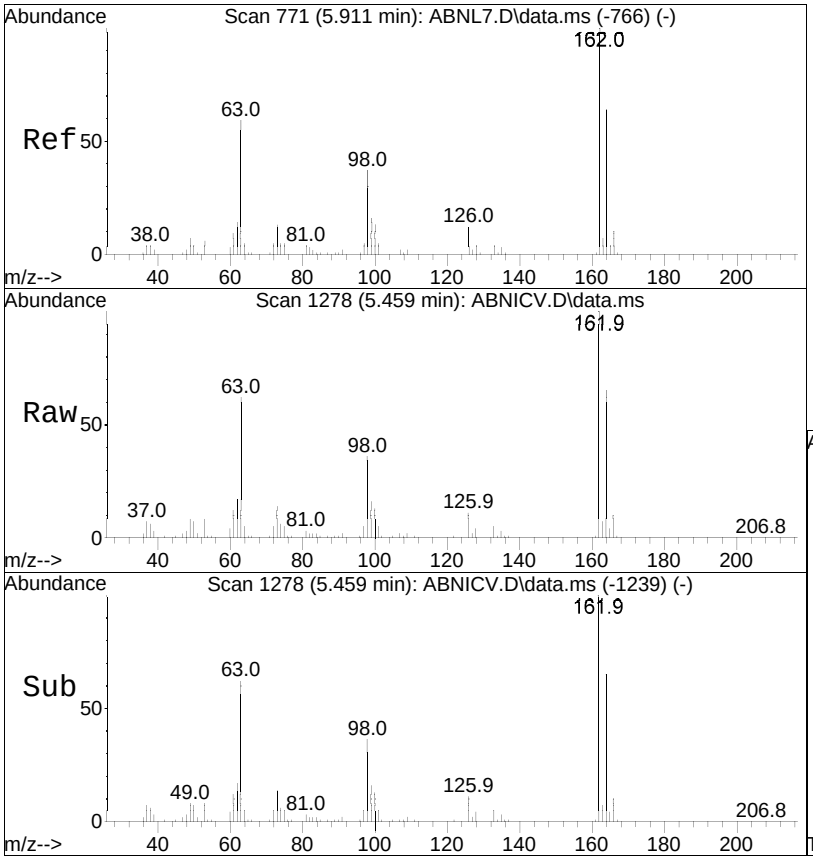


#24
Bis(2-chloroethoxy)methane
Concen: 48.79 ug/ml
RT: 5.394 min Scan# 1257
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion: 93 Resp: 344972

Ion	Ratio	Lower	Upper
93	100		
95	32.1	26.6	40.0
123	11.7	11.0	16.4

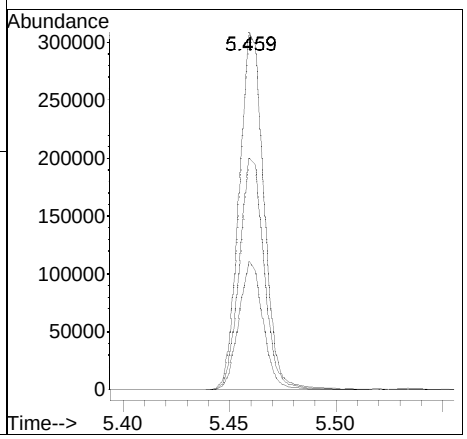


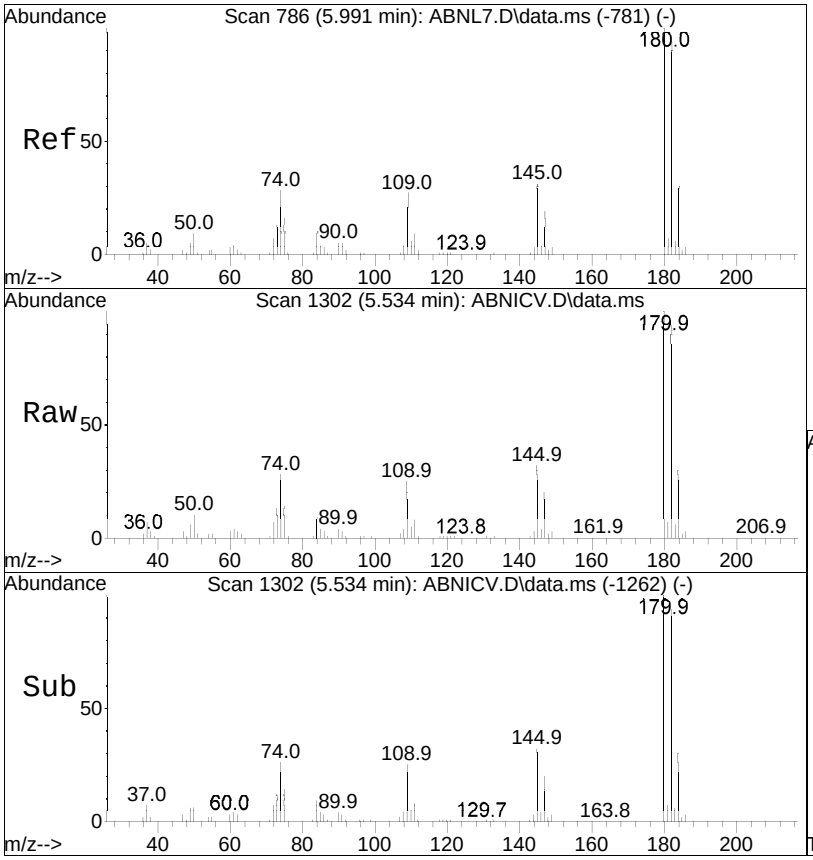


#25
2,4-Dichlorophenol
Concen: 50.85 ug/ml
RT: 5.459 min Scan# 1278
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion:162 Resp: 248140

Ion	Ratio	Lower	Upper
162	100		
164	64.8	51.6	77.4
98	35.6	29.4	44.2

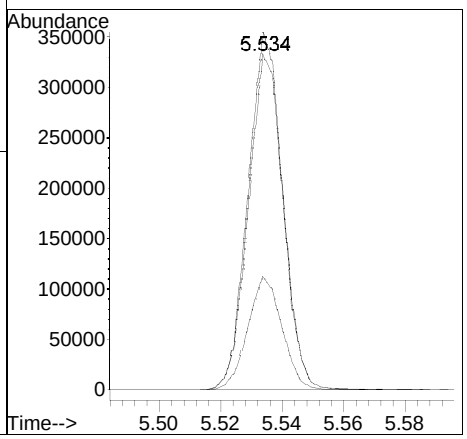


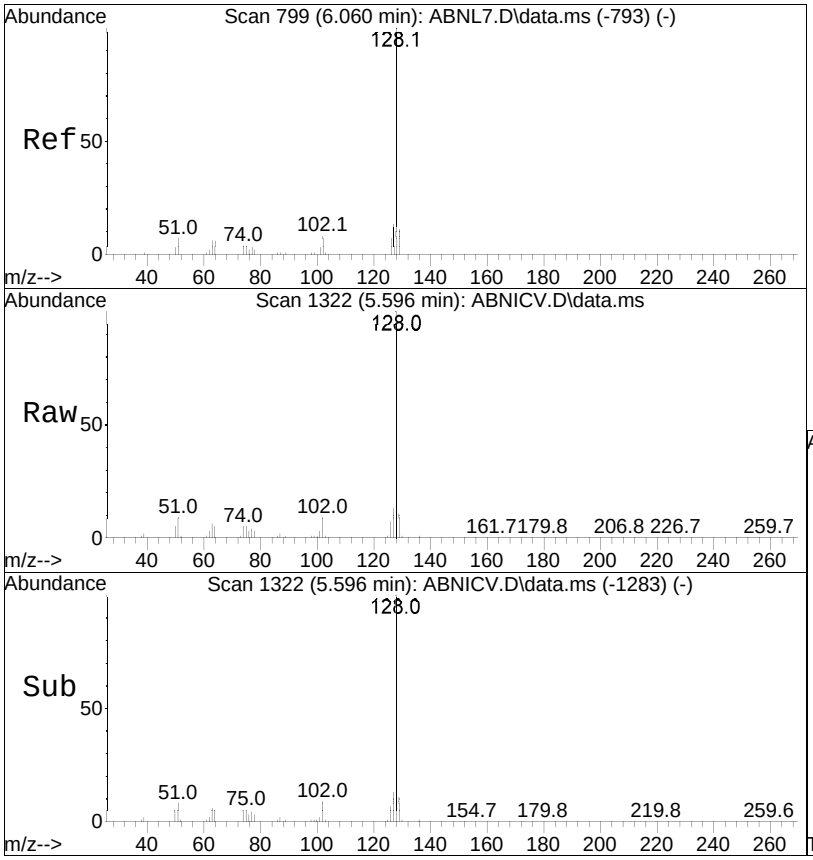


#26
1,2,4-Trichlorobenzene
Concen: 48.40 ug/ml
RT: 5.534 min Scan# 1302
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion:180 Resp: 275352

Ion	Ratio	Lower	Upper
180	100		
182	94.3	77.0	115.6
145	31.4	25.2	37.8

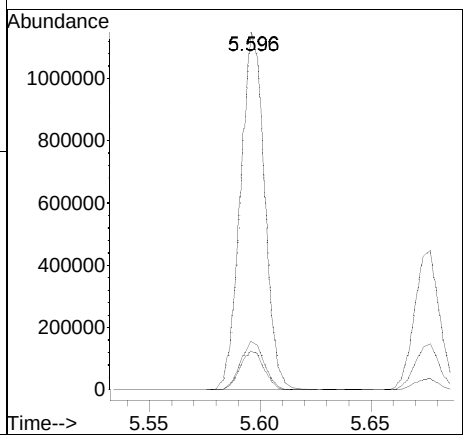


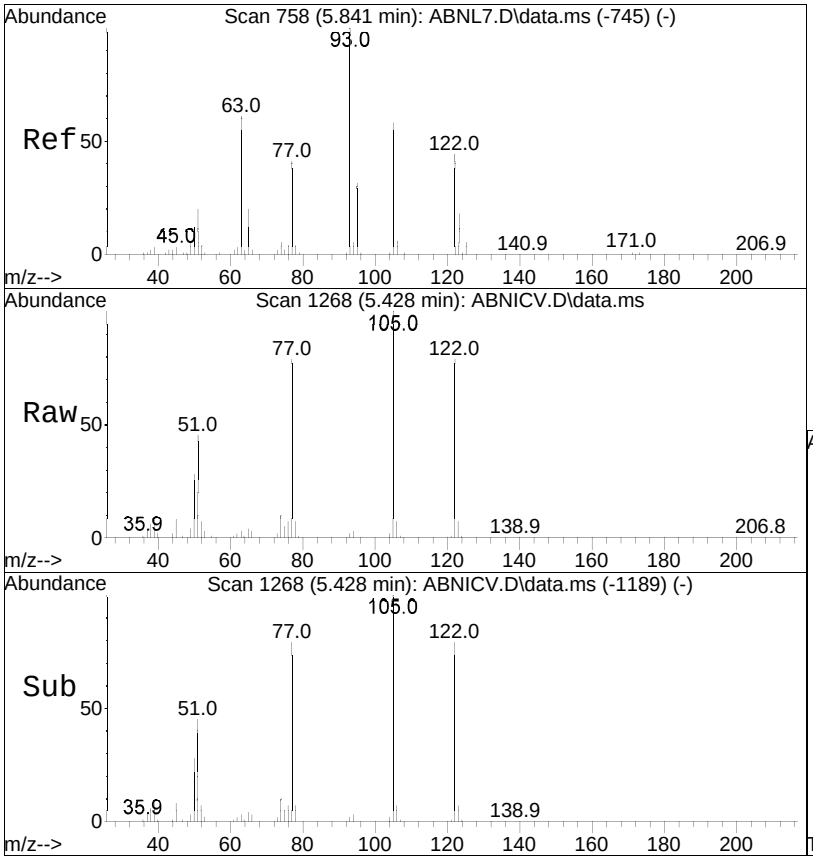


#35
Naphthalene
Concen: 48.01 ug/ml
RT: 5.596 min Scan# 1322
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion:128 Resp: 867997

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.9	13.3
127	13.5	10.9	16.3

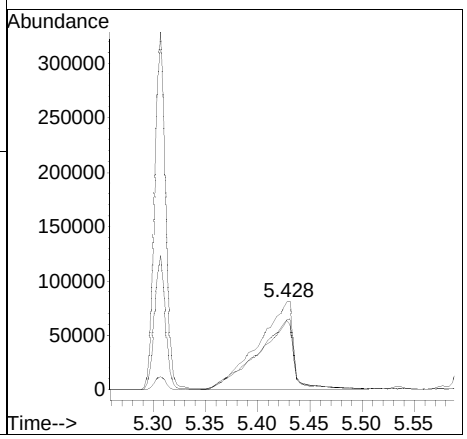


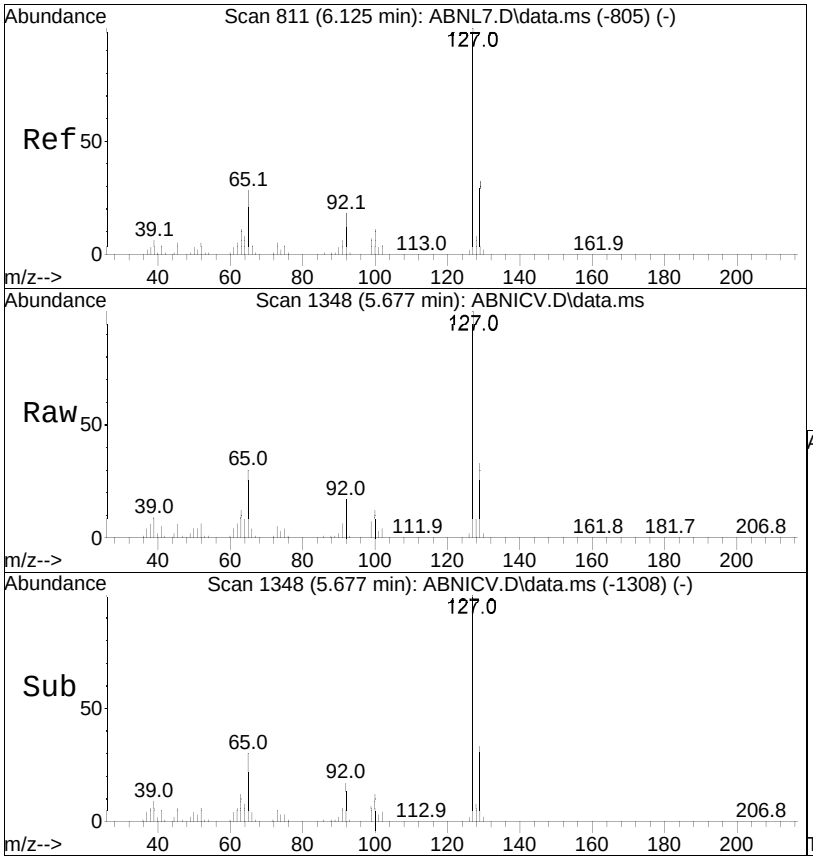


#36
Benzoic Acid
Concen: 44.52 ug/ml
RT: 5.428 min Scan# 1268
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion:105 Resp: 198628

Ion	Ratio	Lower	Upper
105	100		
122	81.0	67.0	100.4
77	74.3	58.8	88.2

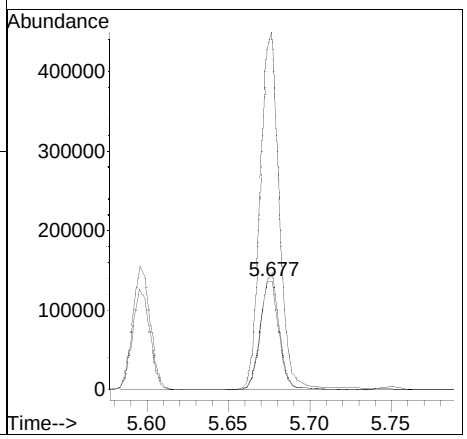


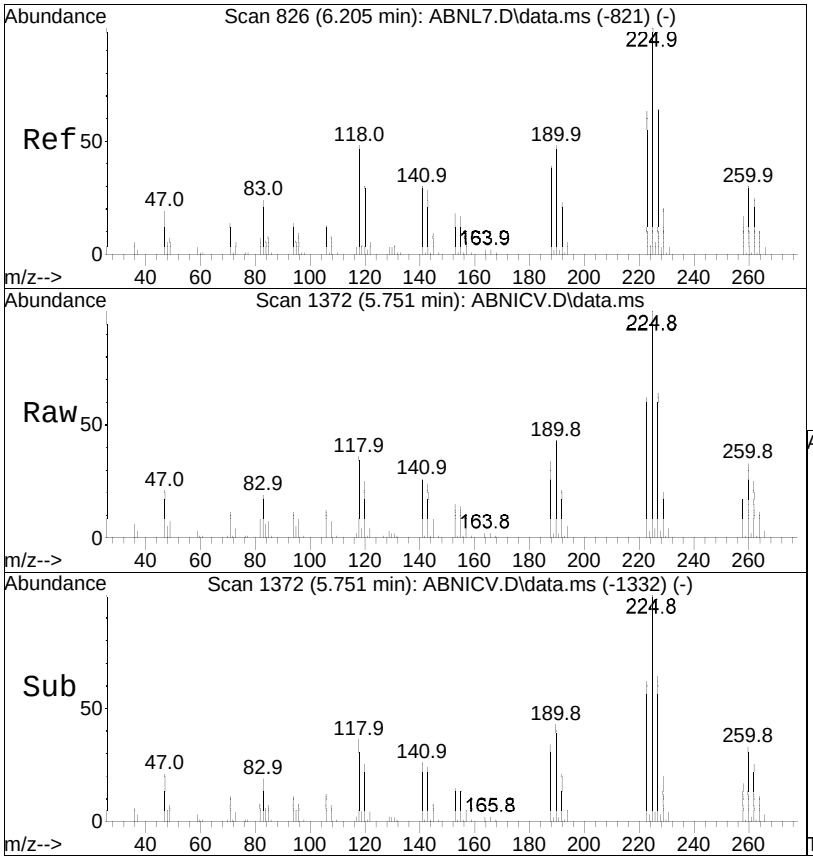


#37
4-Chloroaniline
Concen: 49.78 ug/ml
RT: 5.677 min Scan# 1348
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion: 65 Resp: 113021

Ion	Ratio	Lower	Upper
65	100		
127	323.7	274.4	411.6
129	103.2	88.2	132.4

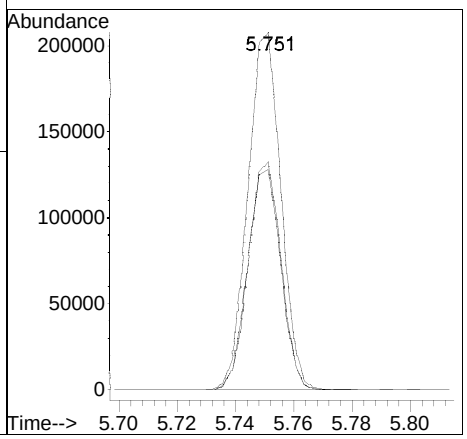


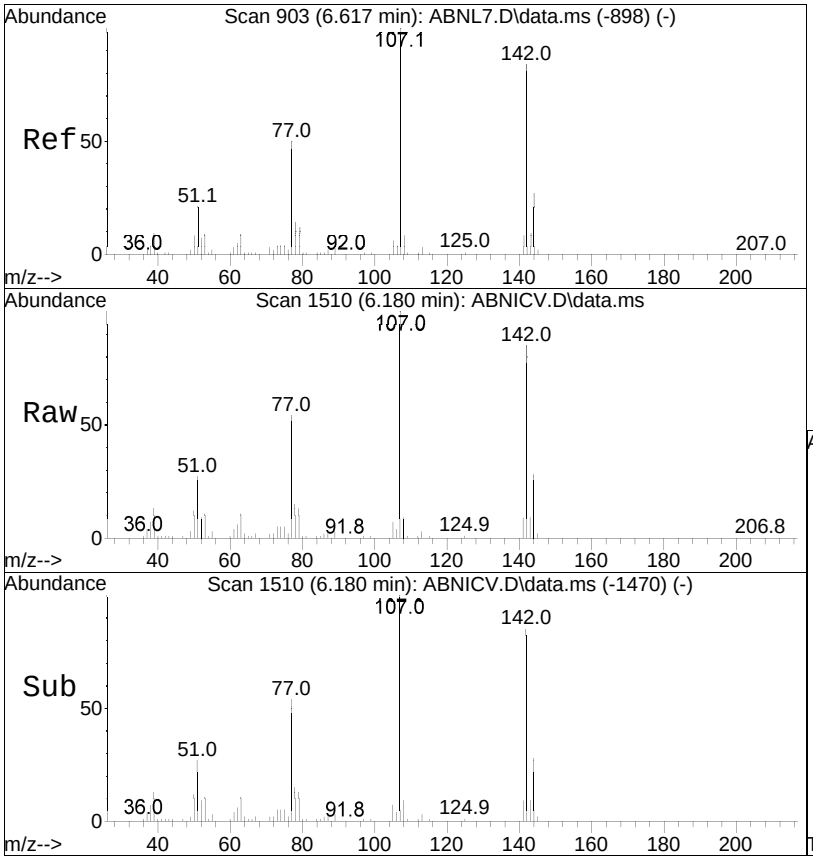


#38
Hexachlorobutadiene
Concen: 48.16 ug/ml
RT: 5.751 min Scan# 1372
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion:225 Resp: 162121

Ion	Ratio	Lower	Upper
225	100		
223	62.2	49.3	73.9
227	63.4	51.1	76.7

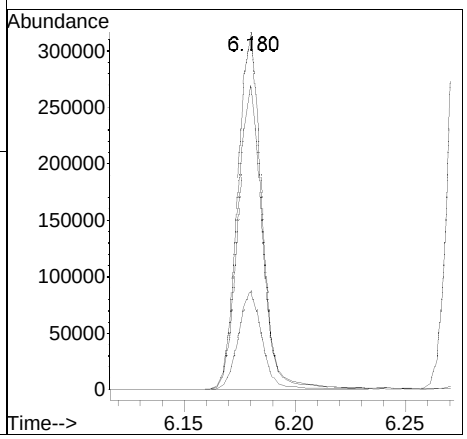


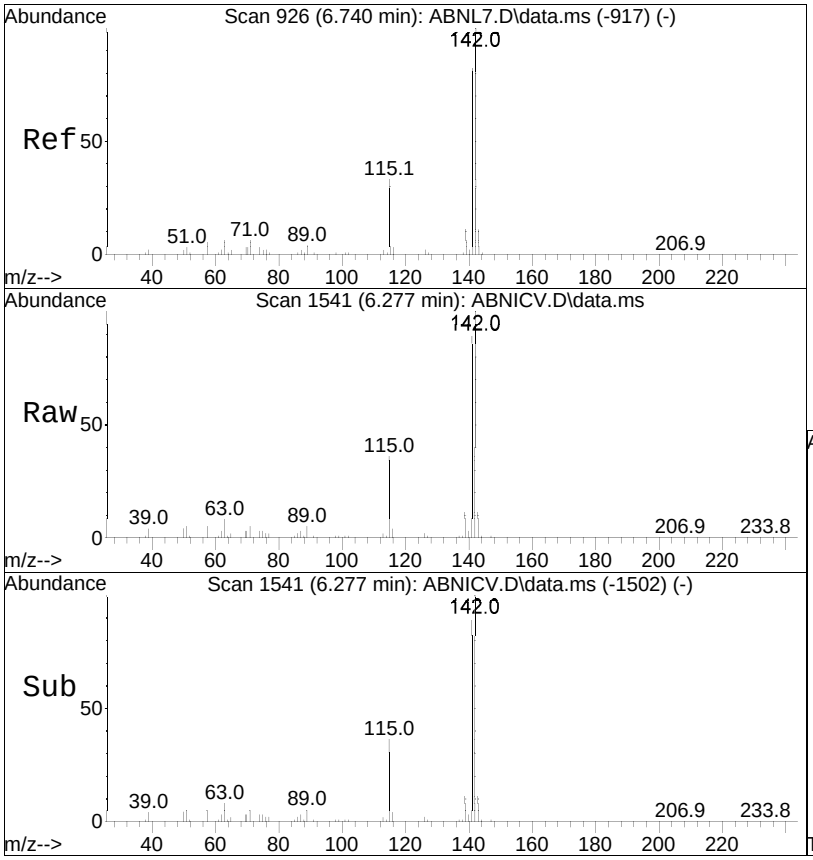


#39
p-Chloro-m-cresol
Concen: 50.03 ug/ml
RT: 6.180 min Scan# 1510
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion:107 Resp: 242646

Ion	Ratio	Lower	Upper
107	100		
144	27.0	21.5	32.3
142	85.4	66.8	100.2

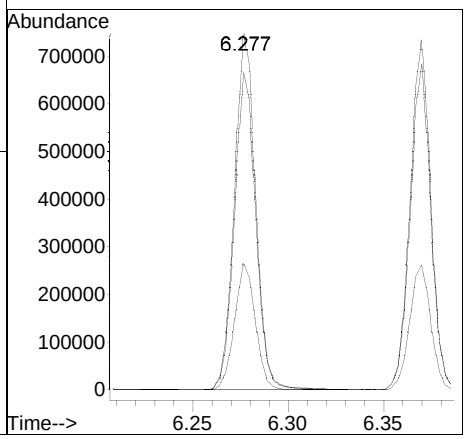


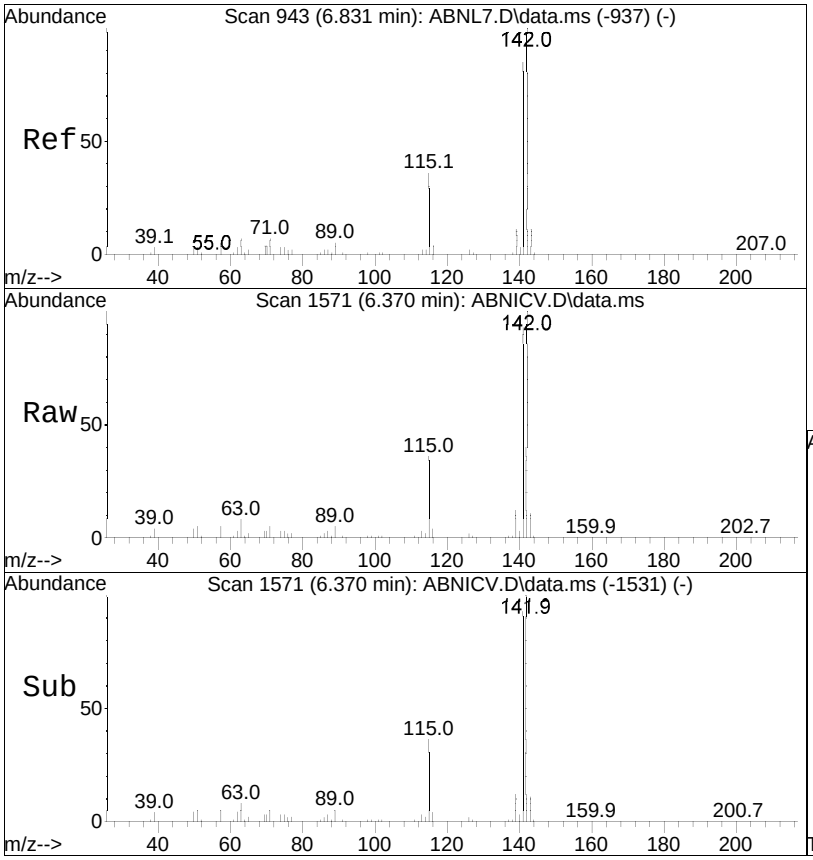


#40
2-Methylnaphthalene
Concen: 48.44 ug/ml
RT: 6.277 min Scan# 1541
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion:142 Resp: 582554

Ion	Ratio	Lower	Upper
142	100		
141	89.4	73.0	109.6
115	35.2	25.4	38.2

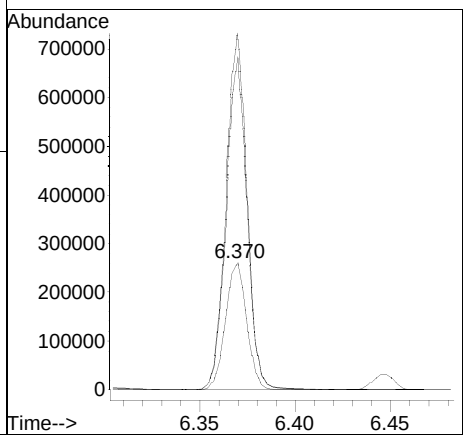


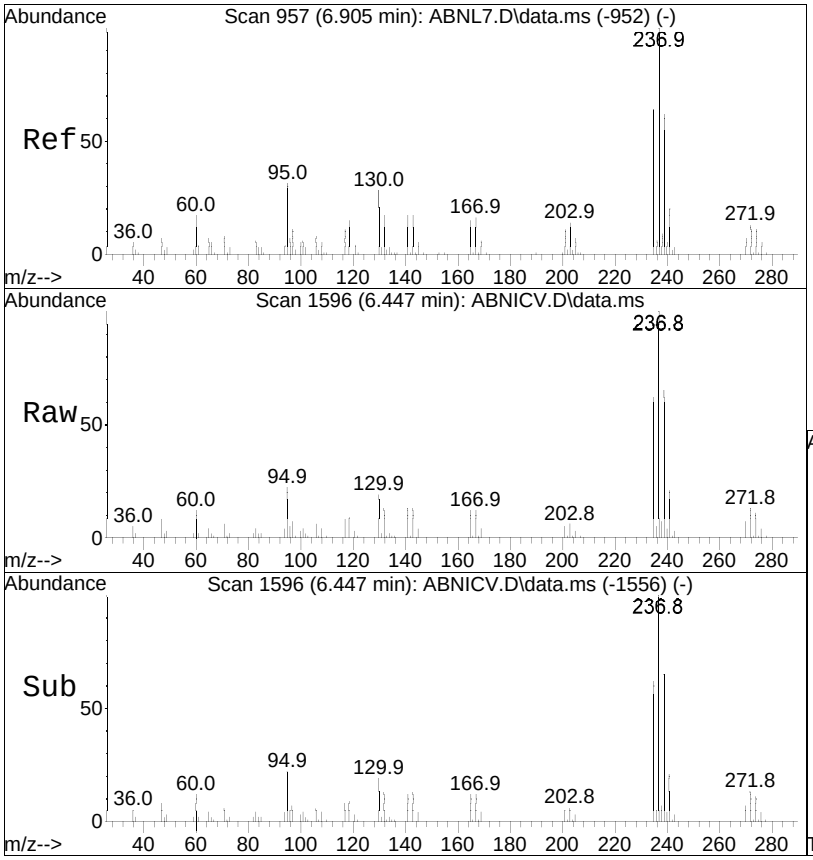


#41
1-Methylnaphthalene
Concen: 48.05 ug/ml
RT: 6.370 min Scan# 1571
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion:115 Resp: 204015

Ion	Ratio	Lower	Upper
115	100		
141	252.9	226.0	339.0
142	272.3	237.6	356.4

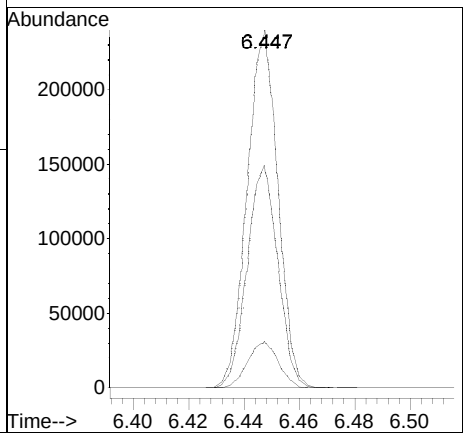


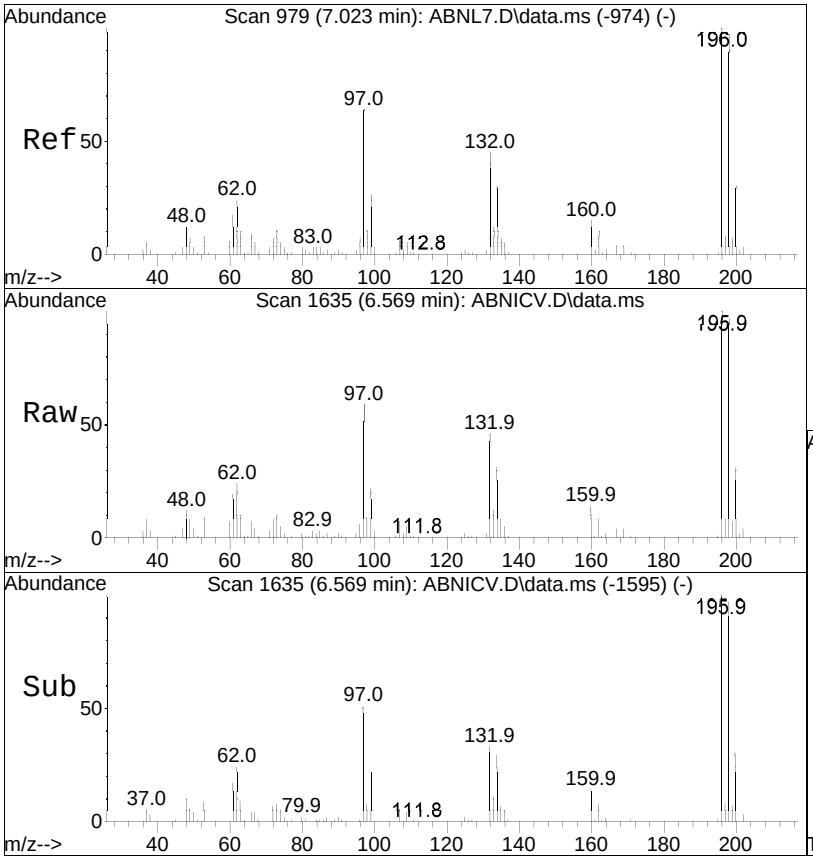


#42
Hexachlorocyclopentadiene
Concen: 45.91 ug/ml
RT: 6.447 min Scan# 1596
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion:237 Resp: 183232

Ion	Ratio	Lower	Upper
237	100		
235	62.0	49.5	74.3
272	13.0	10.2	15.4

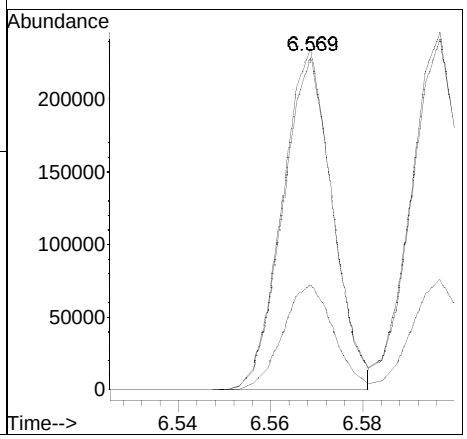


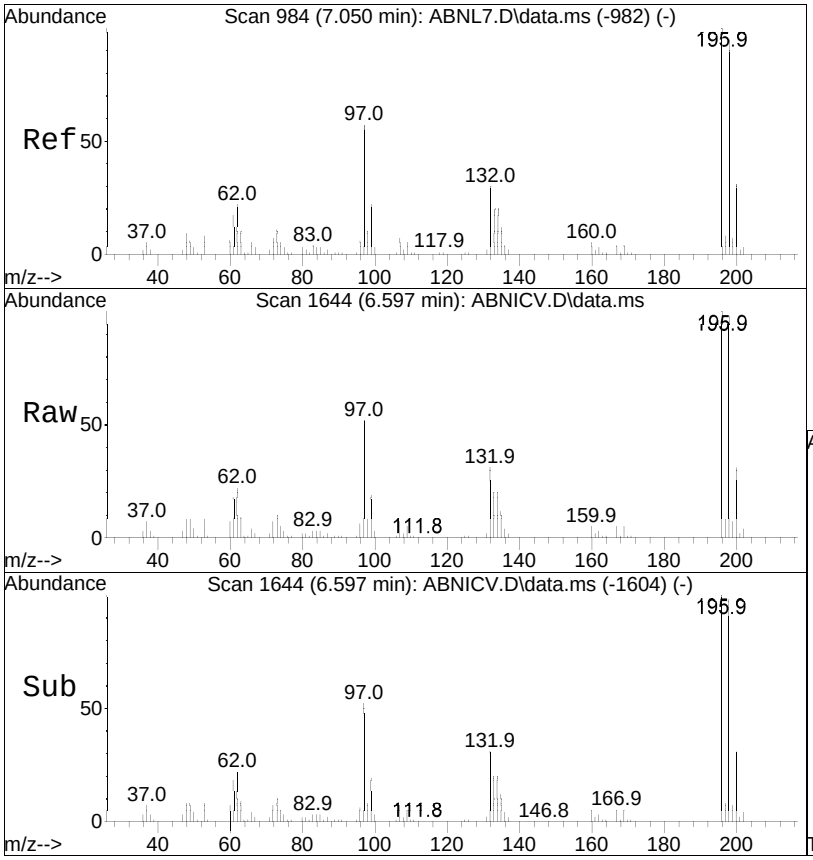


#43
2,4,6-Trichlorophenol
Concen: 50.71 ug/ml
RT: 6.569 min Scan# 1635
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion:196 Resp: 177359

Ion	Ratio	Lower	Upper
196	100		
198	96.9	76.4	114.6
200	31.3	24.4	36.6

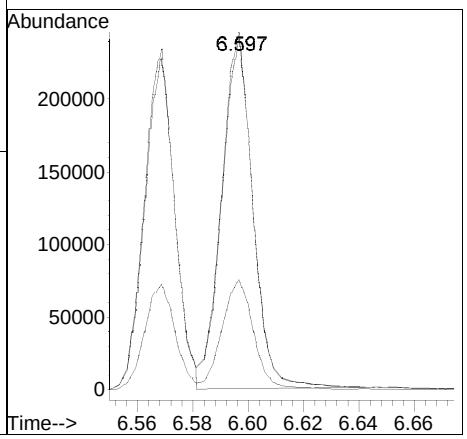


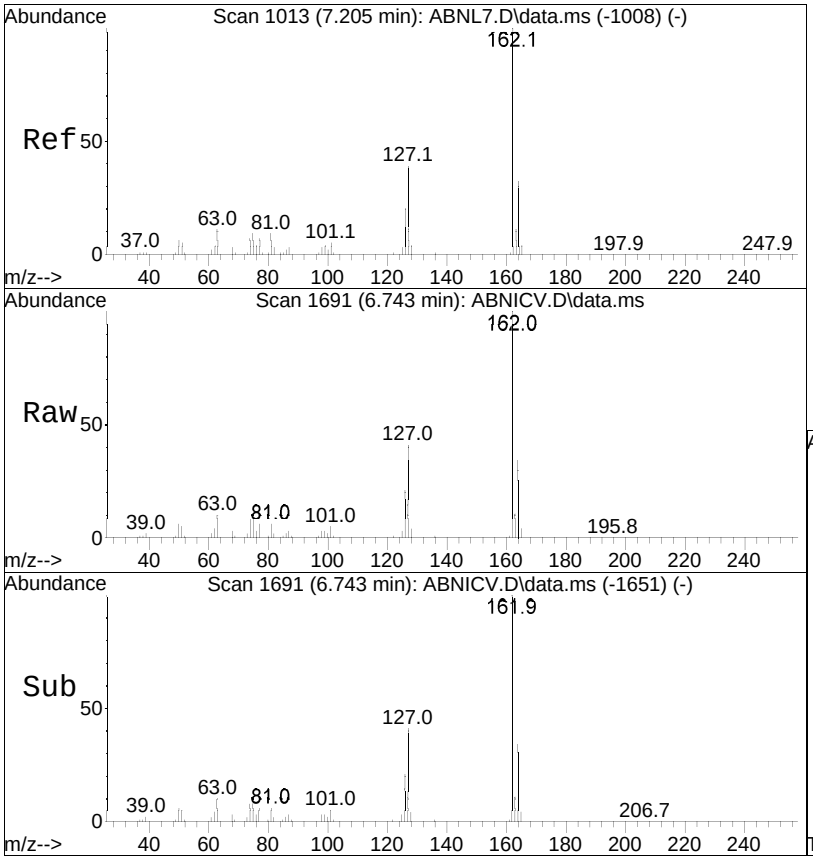


#44
2,4,5-Trichlorophenol
Concen: 50.93 ug/ml
RT: 6.597 min Scan# 1644
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion:196 Resp: 191339

Ion	Ratio	Lower	Upper
196	100		
200	31.1	25.2	37.8
198	99.8	77.7	116.5

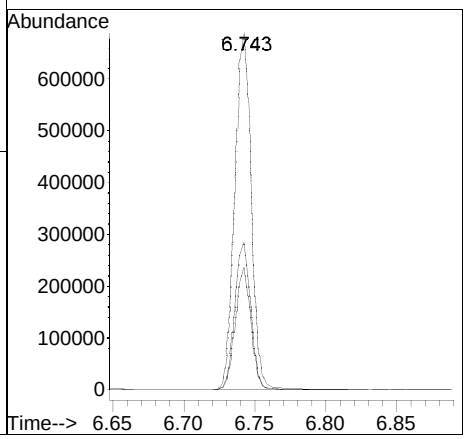


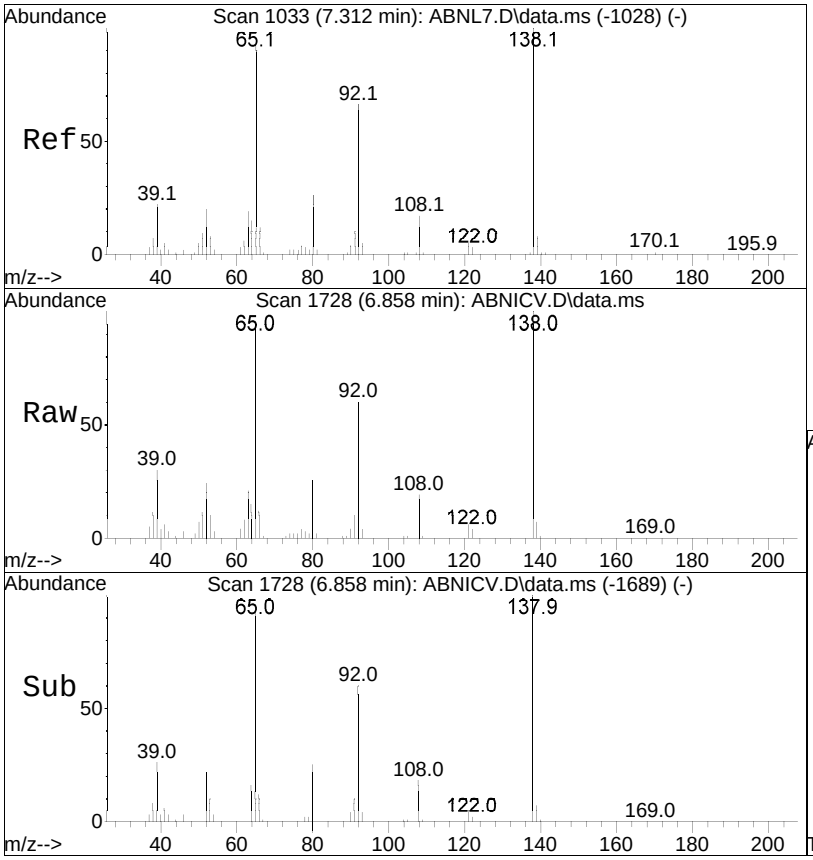


#46
2-Chloronaphthalene
Concen: 48.98 ug/ml
RT: 6.743 min Scan# 1691
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion:162 Resp: 554064

Ion	Ratio	Lower	Upper
162	100		
127	40.1	31.7	47.5
164	32.8	26.2	39.4

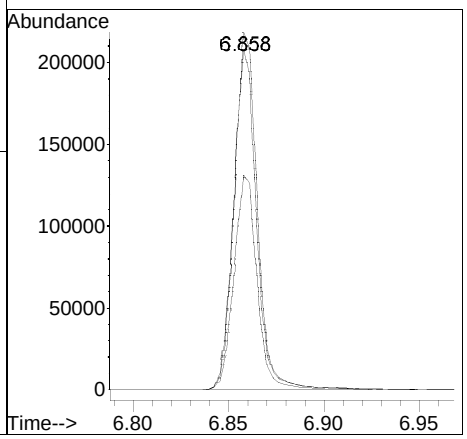


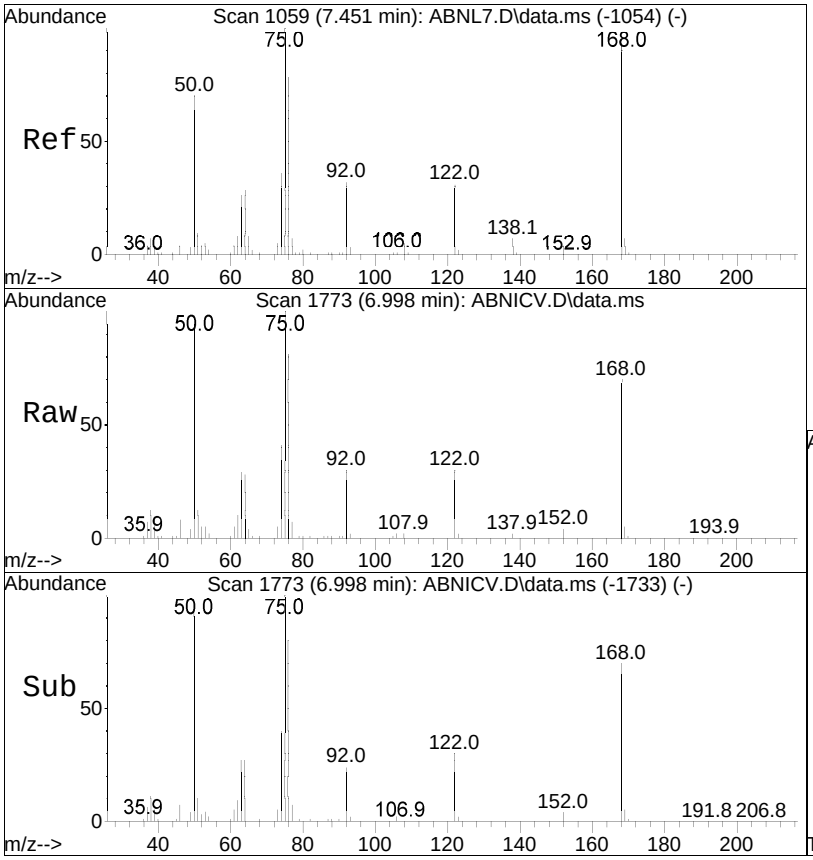


#47
2-Nitroaniline
Concen: 50.79 ug/ml
RT: 6.858 min Scan# 1728
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion:138 Resp: 181648

Ion	Ratio	Lower	Upper
138	100		
92	59.9	48.0	72.0
65	95.5	72.8	109.2

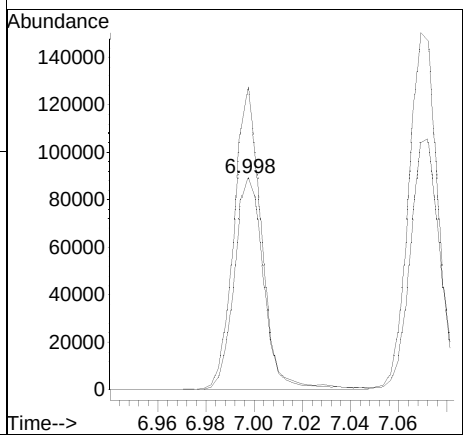


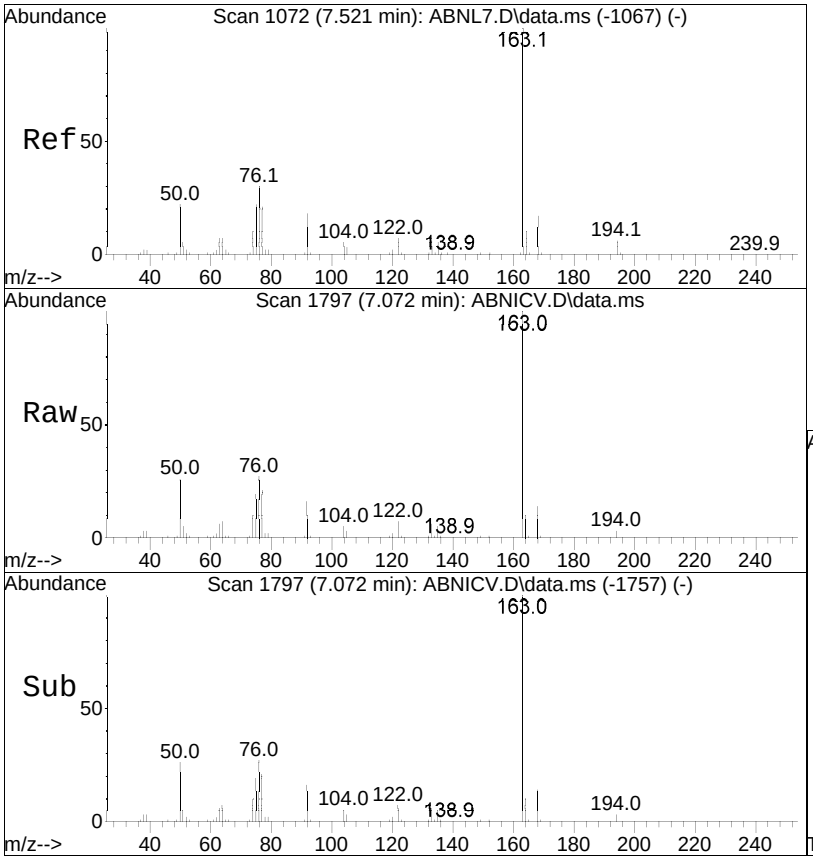


#48
1,4-Dinitrobenzene
Concen: 46.27 ug/ml
RT: 6.998 min Scan# 1773
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion:168 Resp: 75902

Ion	Ratio	Lower	Upper
168	100		
75	133.9	107.2	160.8

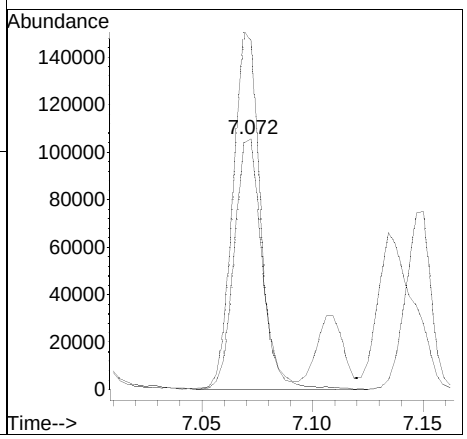


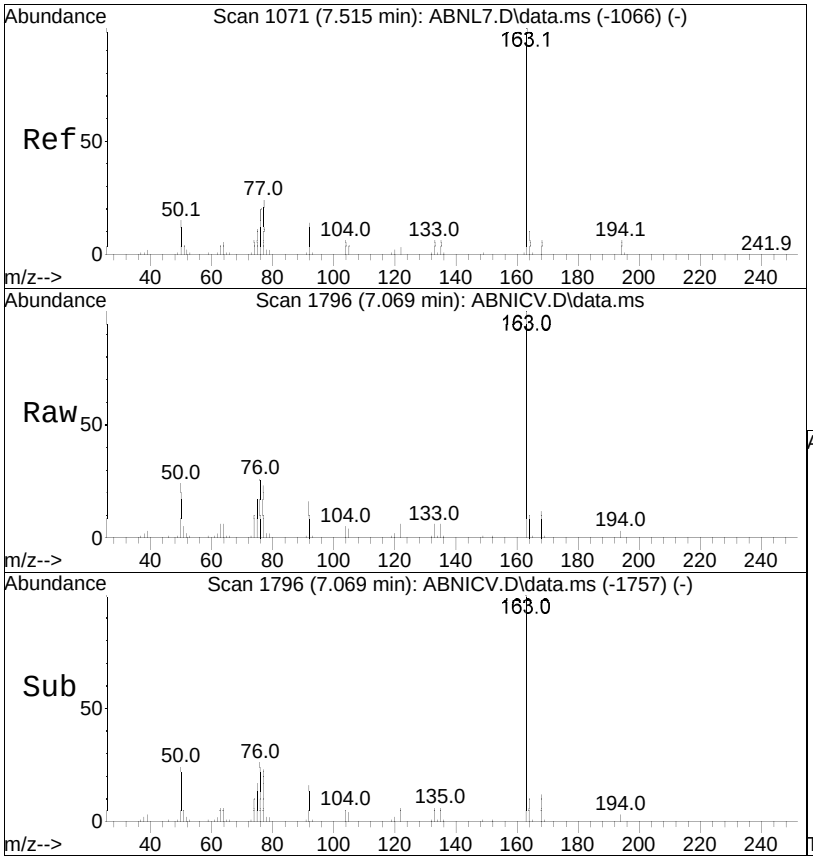


#49
1,3-Dinitrobenzene
Concen: 48.08 ug/ml
RT: 7.072 min Scan# 1797
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion:168 Resp: 92466

Ion	Ratio	Lower	Upper
168	100		
75	138.0	112.2	168.2

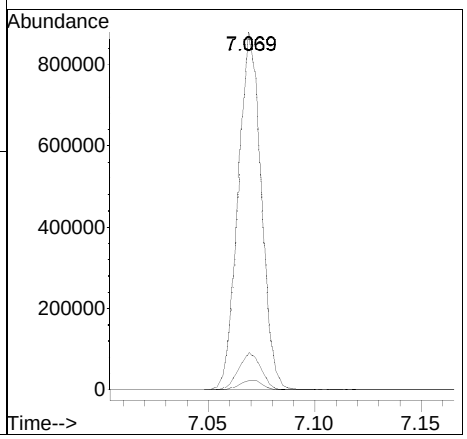


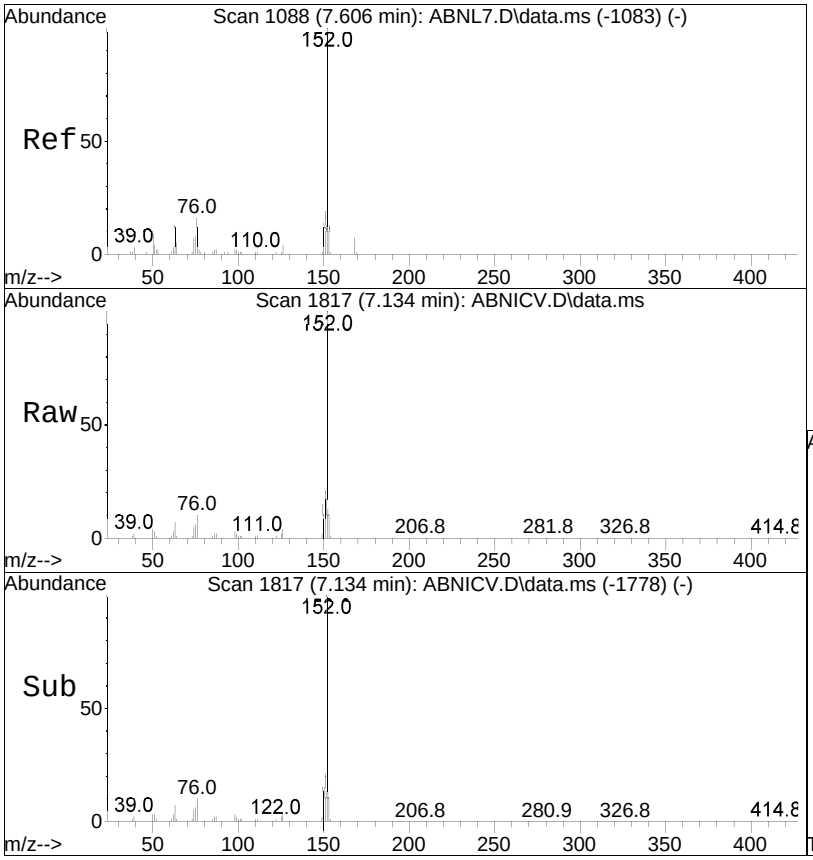


#50
Dimethyl phthalate
Concen: 49.23 ug/ml
RT: 7.069 min Scan# 1796
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion:163 Resp: 659102

Ion	Ratio	Lower	Upper
163	100		
194	2.9	2.4	3.6
164	10.4	8.1	12.1

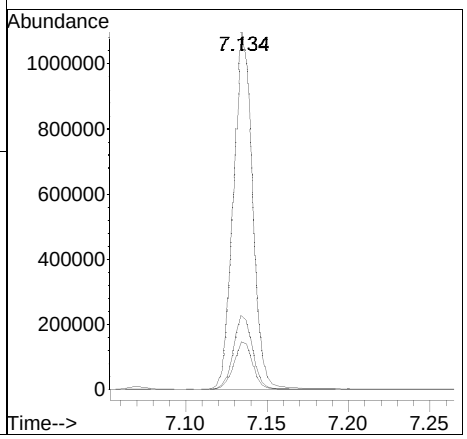


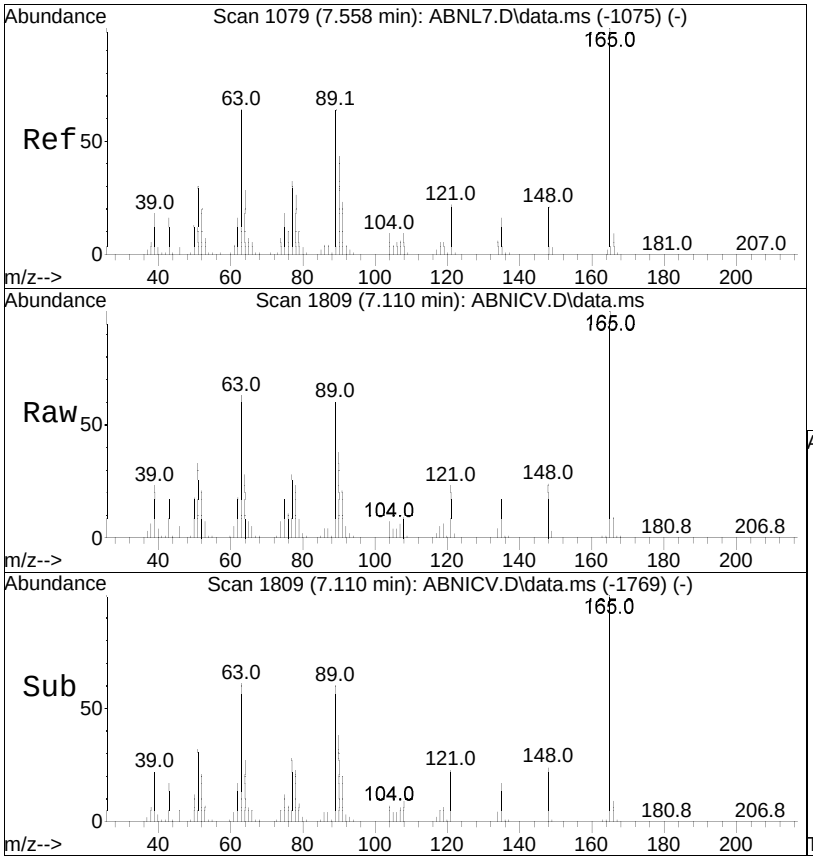


#51
Acenaphthylene
Concen: 48.99 ug/ml
RT: 7.134 min Scan# 1817
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion:152 Resp: 891985

Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.6	24.8
153	13.3	10.5	15.7

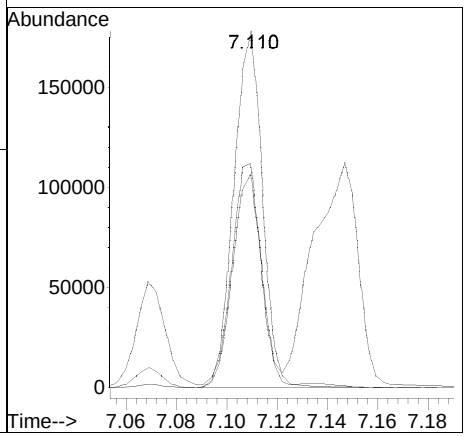


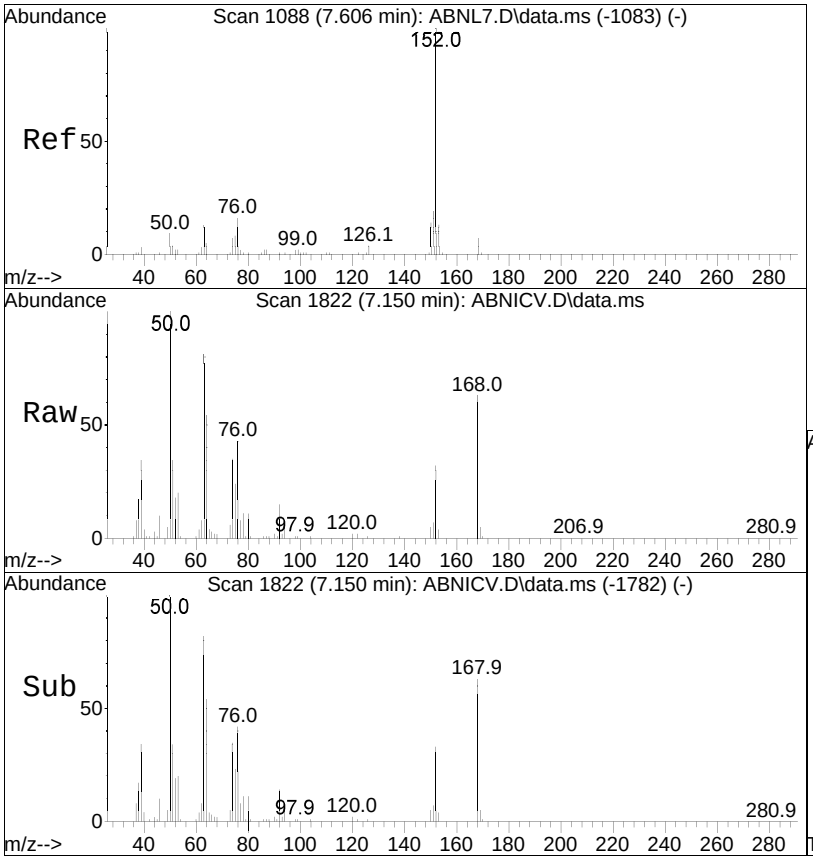


#52
2,6-Dinitrotoluene
Concen: 50.67 ug/ml
RT: 7.110 min Scan# 1809
Delta R.T. 0.001 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion:165 Resp: 141068

Ion	Ratio	Lower	Upper
165	100		
89	60.3	44.7	67.1
63	65.0	48.2	72.4

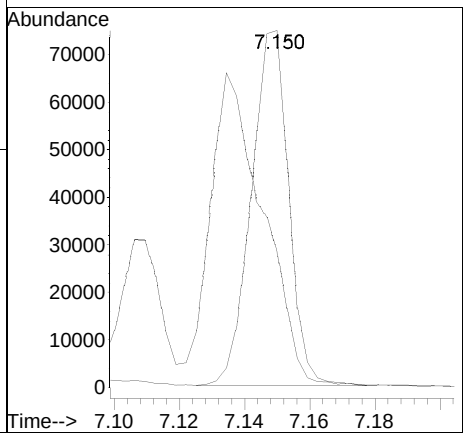


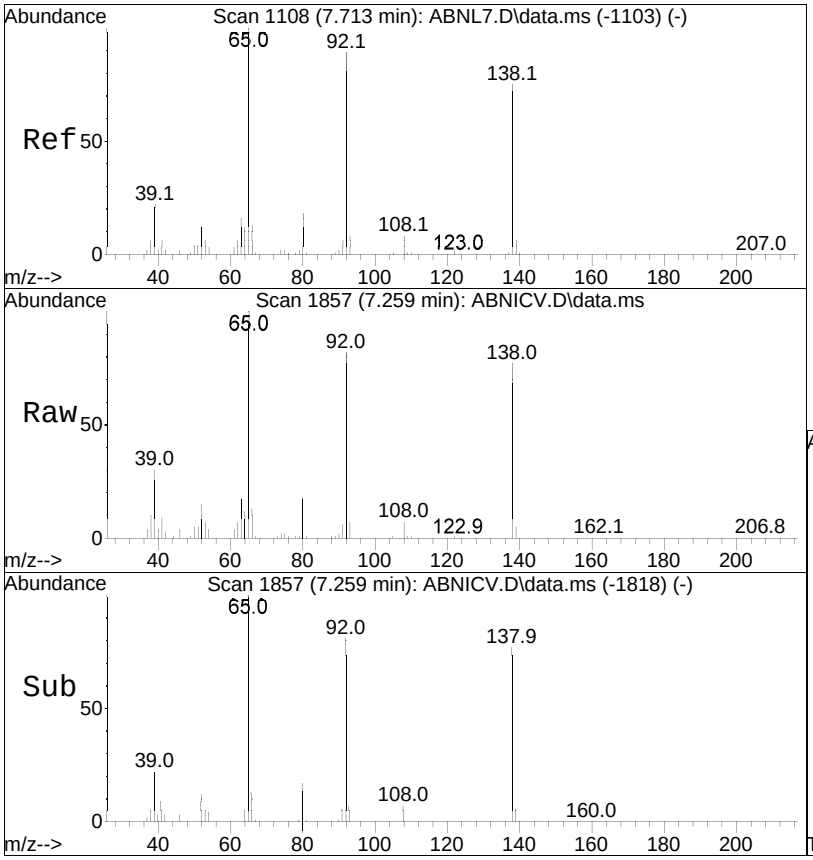


#53
1,2-Dinitrobenzene
Concen: 47.79 ug/ml
RT: 7.150 min Scan# 1822
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion:168 Resp: 59689

Ion	Ratio	Lower	Upper
168	100		
75	126.2	104.8	157.2

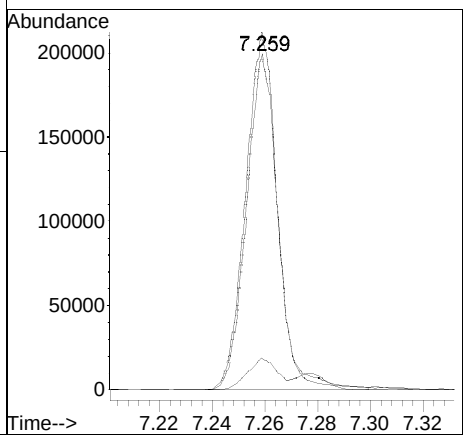


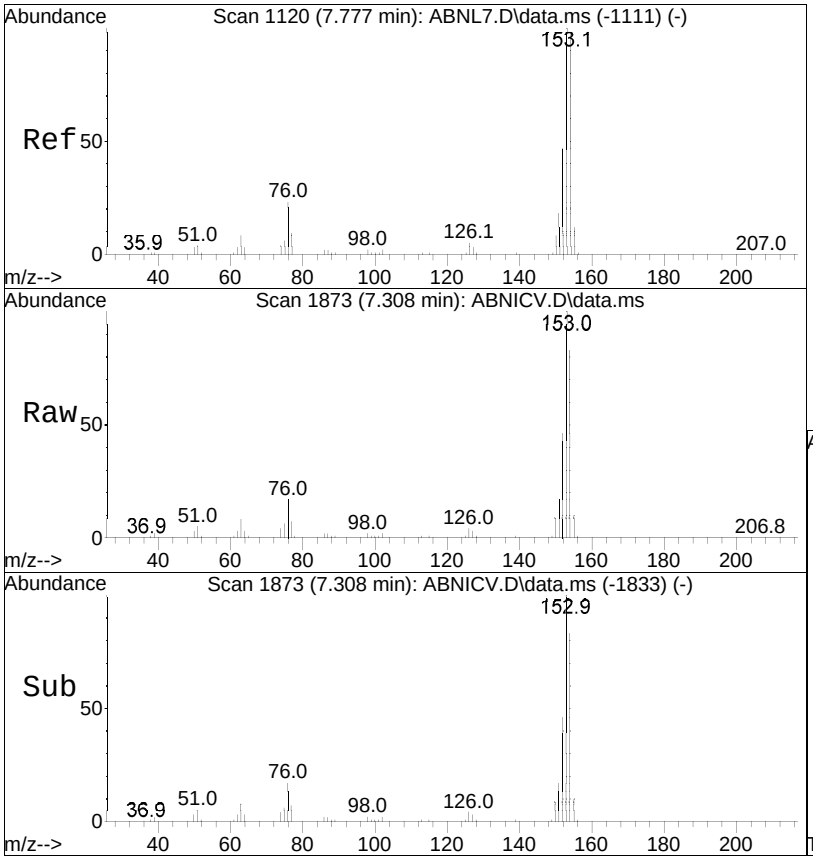


#63
3-Nitroaniline
Concen: 51.69 ug/ml
RT: 7.259 min Scan# 1857
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion:138 Resp: 163267

Ion	Ratio	Lower	Upper
138	100		
92	110.1	86.4	129.6
108	9.2	9.4	14.0#

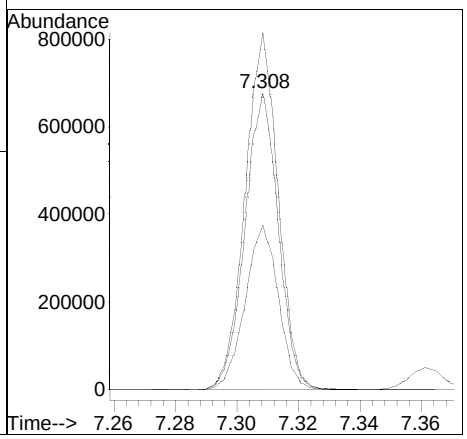


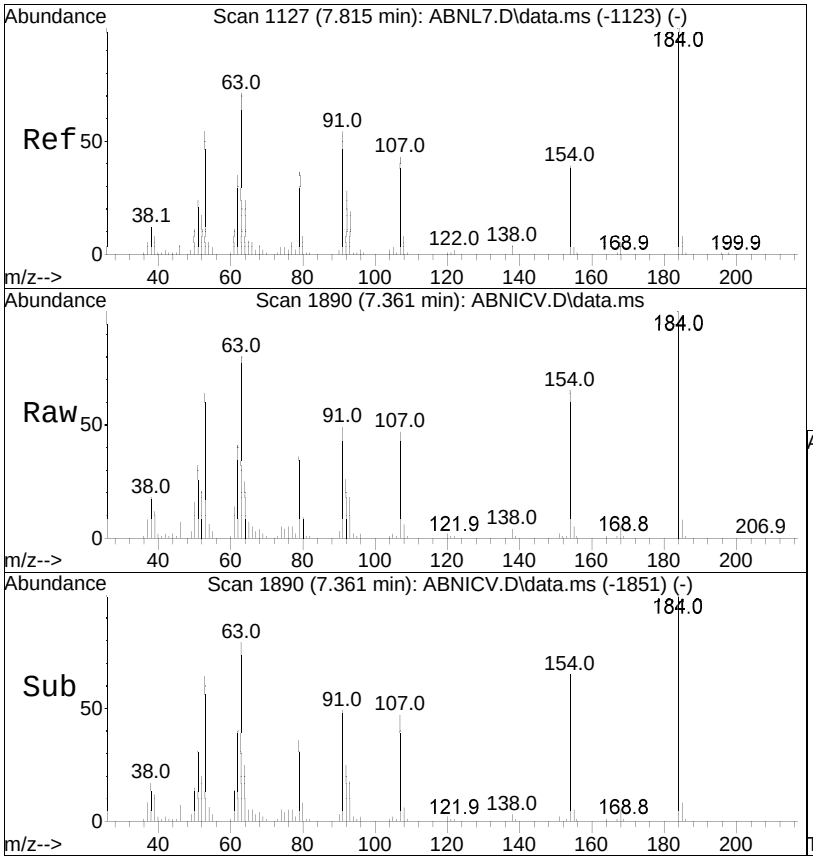


#64
Acenaphthene
Concen: 48.68 ug/ml
RT: 7.308 min Scan# 1873
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion:154 Resp: 509251

Ion	Ratio	Lower	Upper
154	100		
153	119.5	94.2	141.2
152	55.8	44.1	66.1

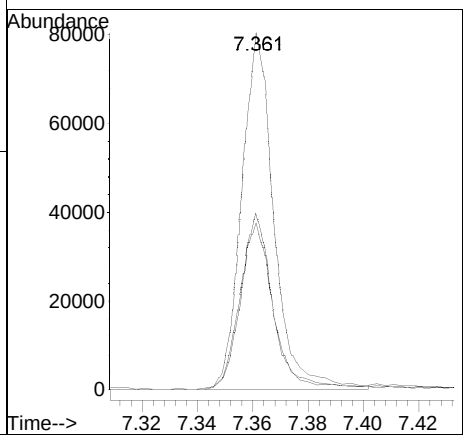


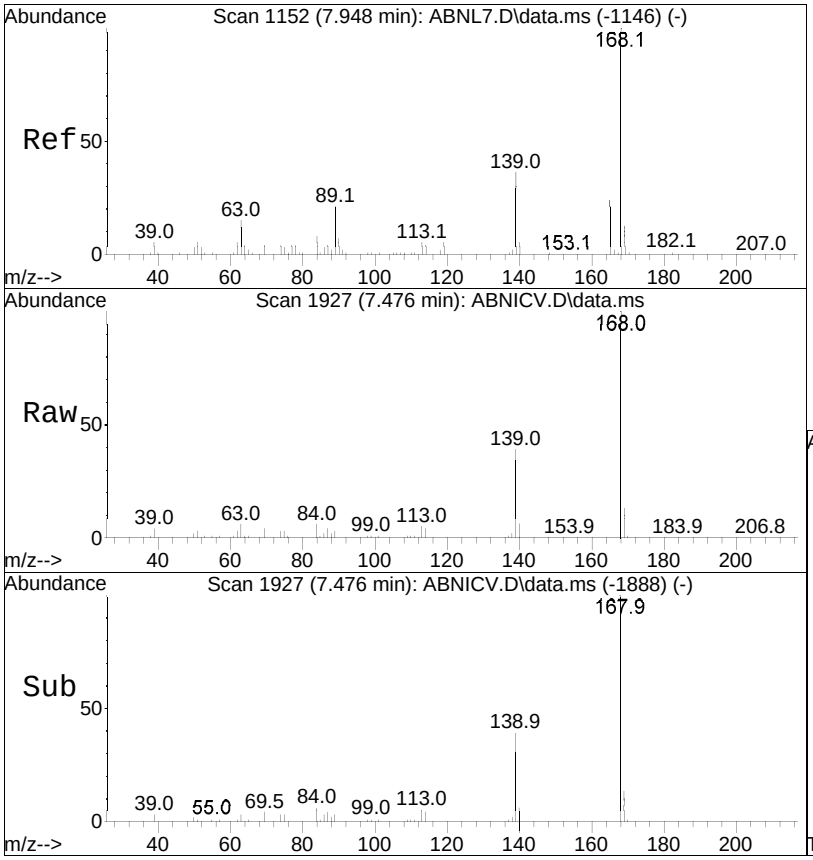


#65
2,4-Dinitrophenol
Concen: 40.31 ug/ml
RT: 7.361 min Scan# 1890
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion:184 Resp: 65146

Ion	Ratio	Lower	Upper
184	100		
107	47.9	37.3	55.9
91	50.9	43.8	65.6

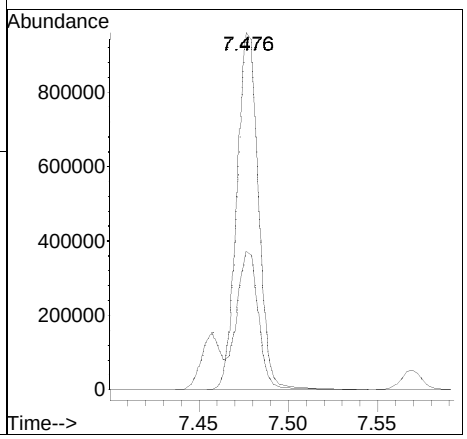


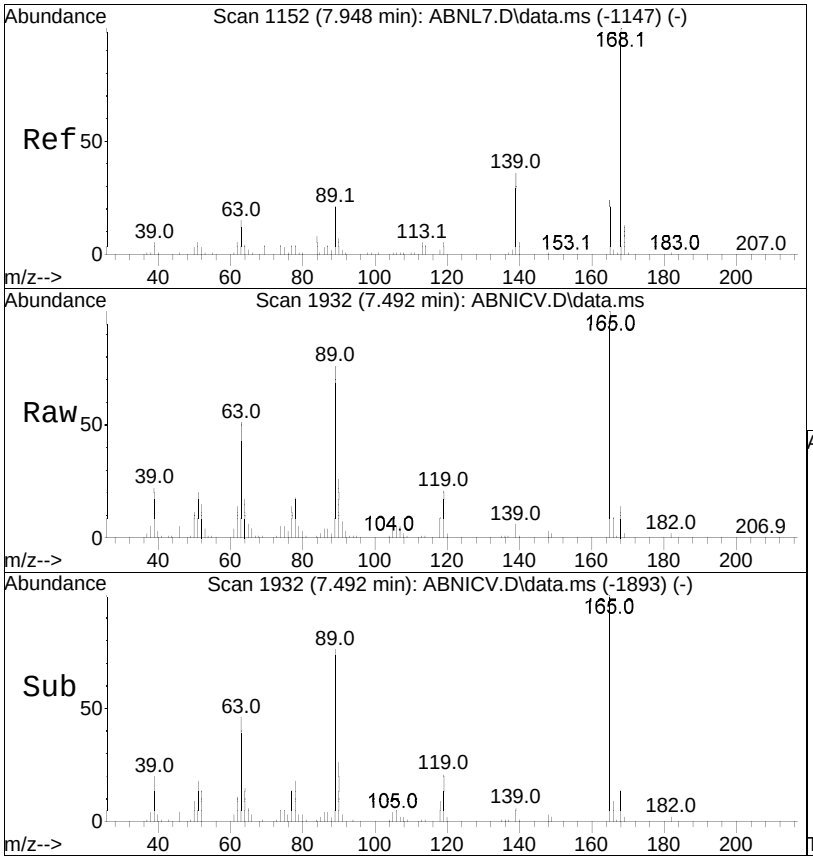


#66
Dibenzofuran
Concen: 48.80 ug/ml
RT: 7.476 min Scan# 1927
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion:168 Resp: 800846

Ion	Ratio	Lower	Upper
168	100		
139	39.4	30.4	45.6

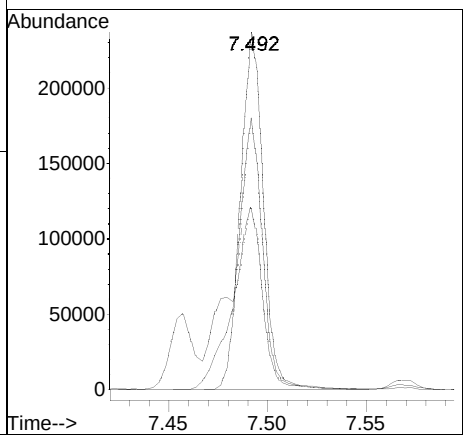


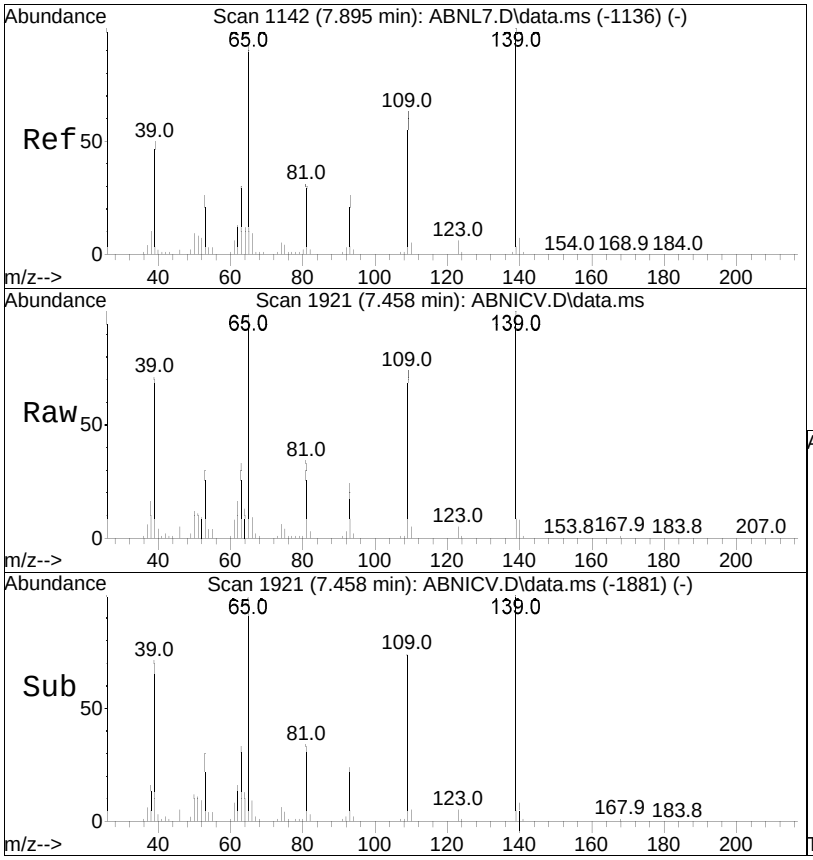


#67
2,4-Dinitrotoluene
Concen: 51.83 ug/ml
RT: 7.492 min Scan# 1932
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion:165 Resp: 190700

Ion	Ratio	Lower	Upper
165	100		
89	86.6	69.8	104.8
63	74.1	59.2	88.8

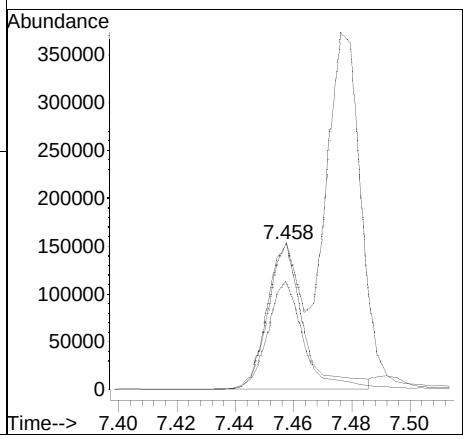


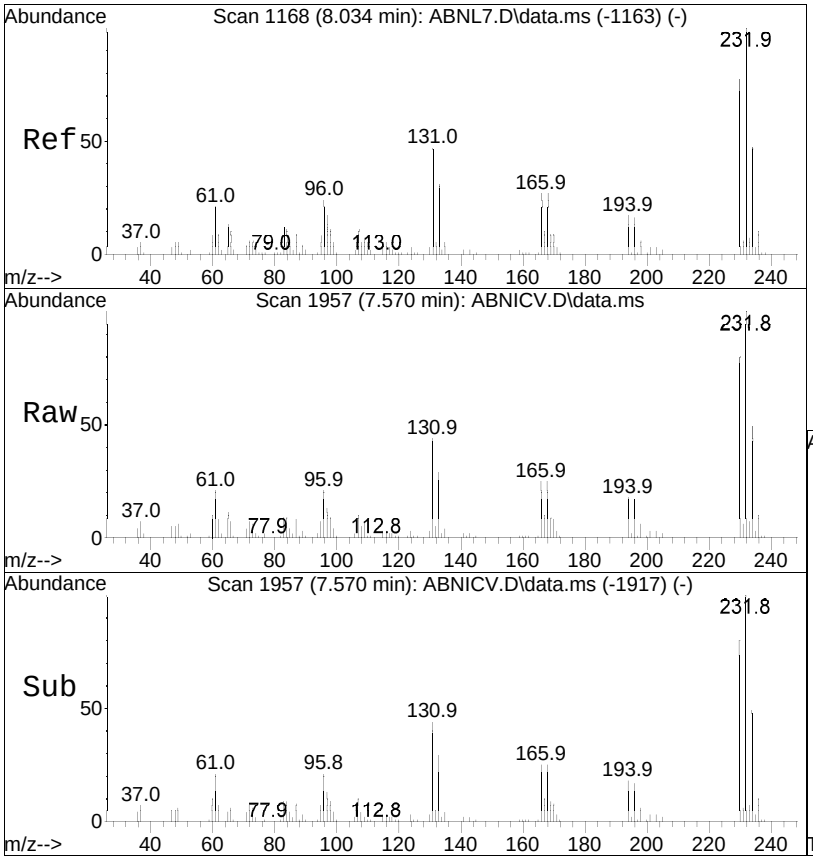


#68
4-Nitrophenol
Concen: 50.26 ug/ml
RT: 7.458 min Scan# 1921
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion: 65 Resp: 132078

Ion	Ratio	Lower	Upper
65	100		
109	76.2	52.8	79.2
139	87.7	84.1	126.1

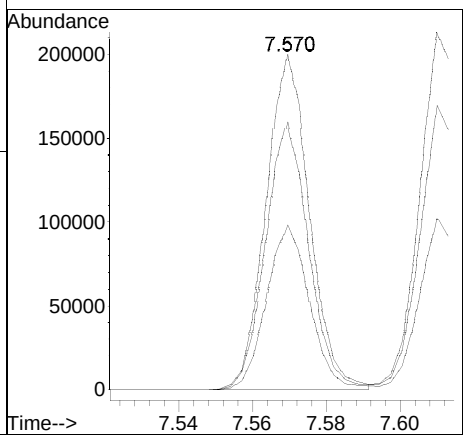


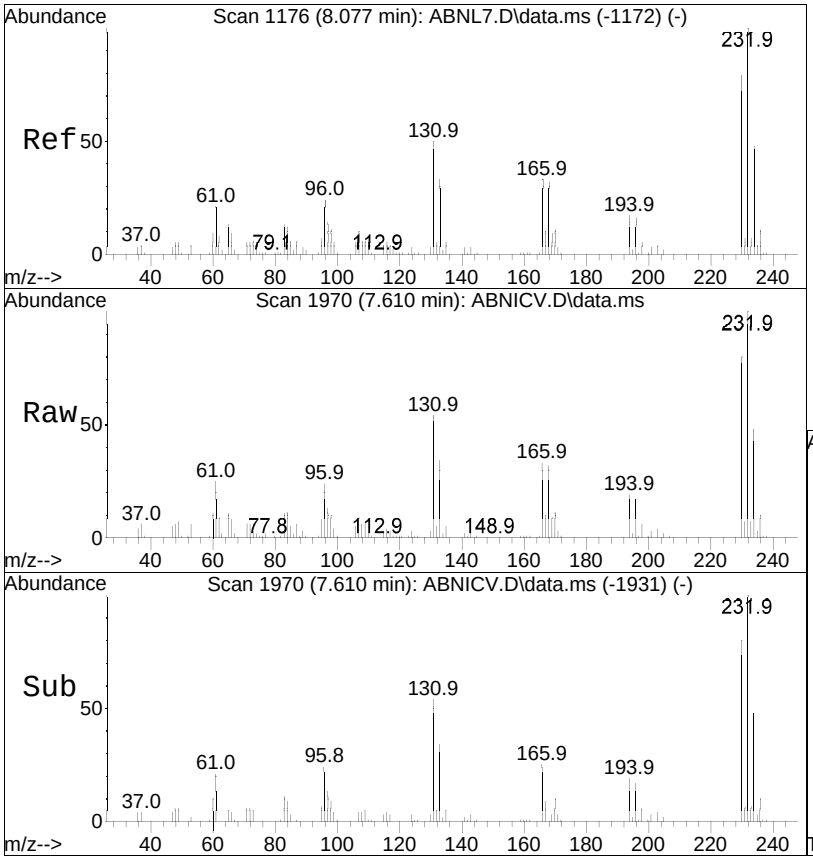


#69
2,3,5,6-Tetrachlorophenol
Concen: 51.62 ug/ml
RT: 7.570 min Scan# 1957
Delta R.T. 0.001 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion:232 Resp: 163834

Ion	Ratio	Lower	Upper
232	100		
230	79.1	63.4	95.0
234	48.8	38.0	57.0

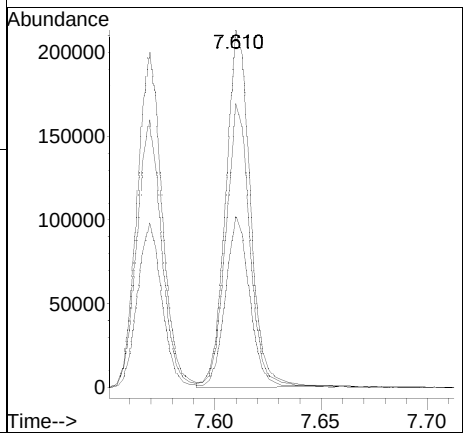


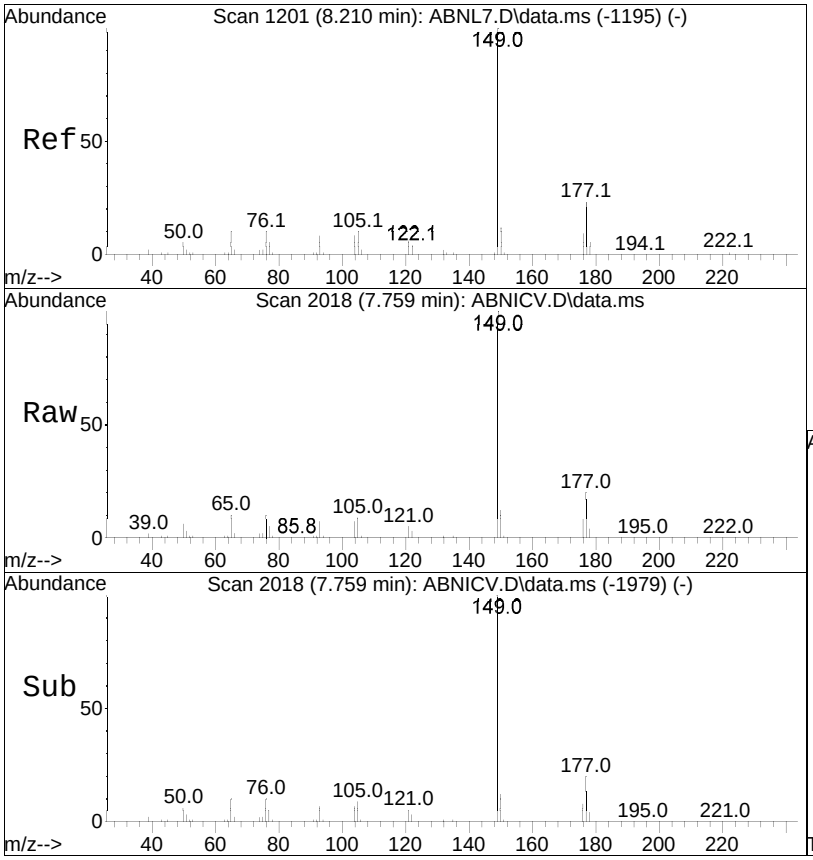


#70
2,3,4,6-Tetrachlorophenol
Concen: 51.09 ug/ml
RT: 7.610 min Scan# 1970
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion:232 Resp: 171802

Ion	Ratio	Lower	Upper
232	100		
230	79.4	62.8	94.2
234	47.3	38.3	57.5

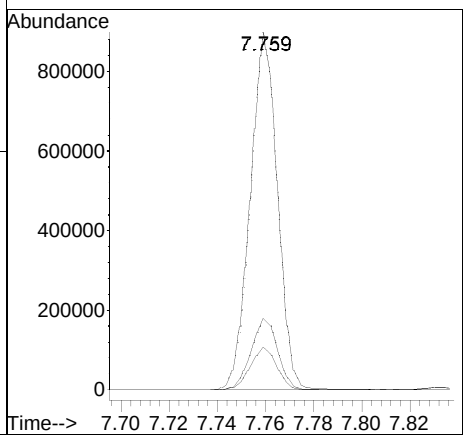


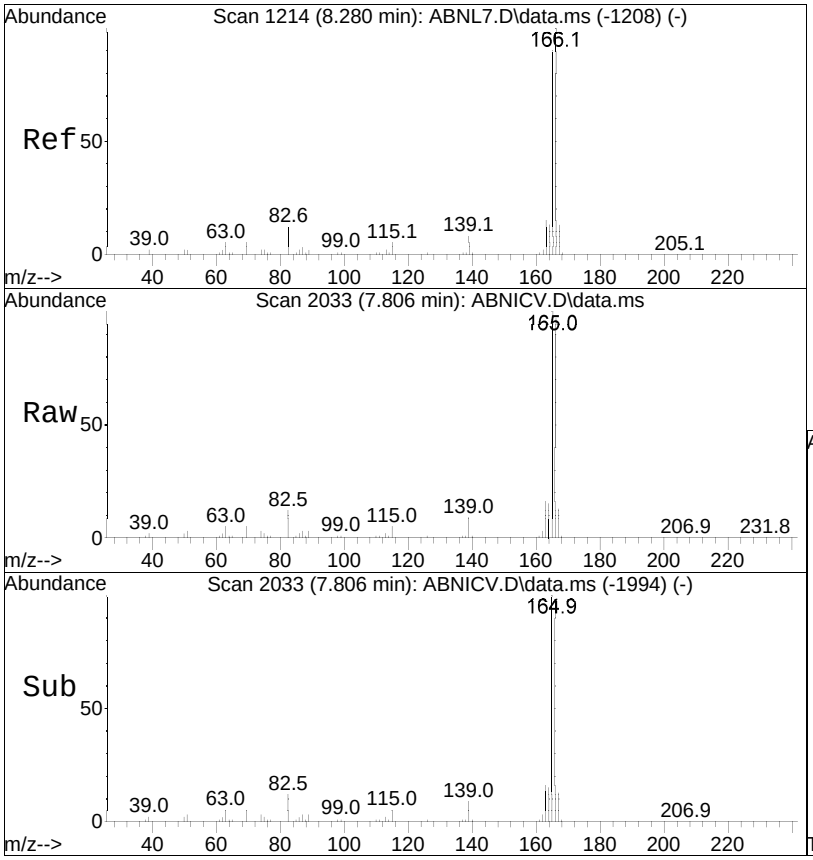


#71
Diethyl phthalate
Concen: 50.60 ug/ml
RT: 7.759 min Scan# 2018
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion:149 Resp: 696081

Ion	Ratio	Lower	Upper
149	100		
177	19.8	15.6	23.4
150	11.9	9.6	14.4

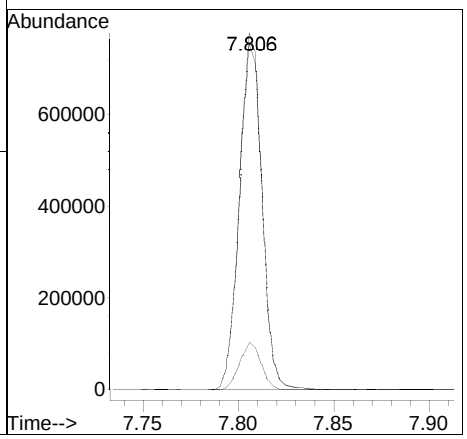


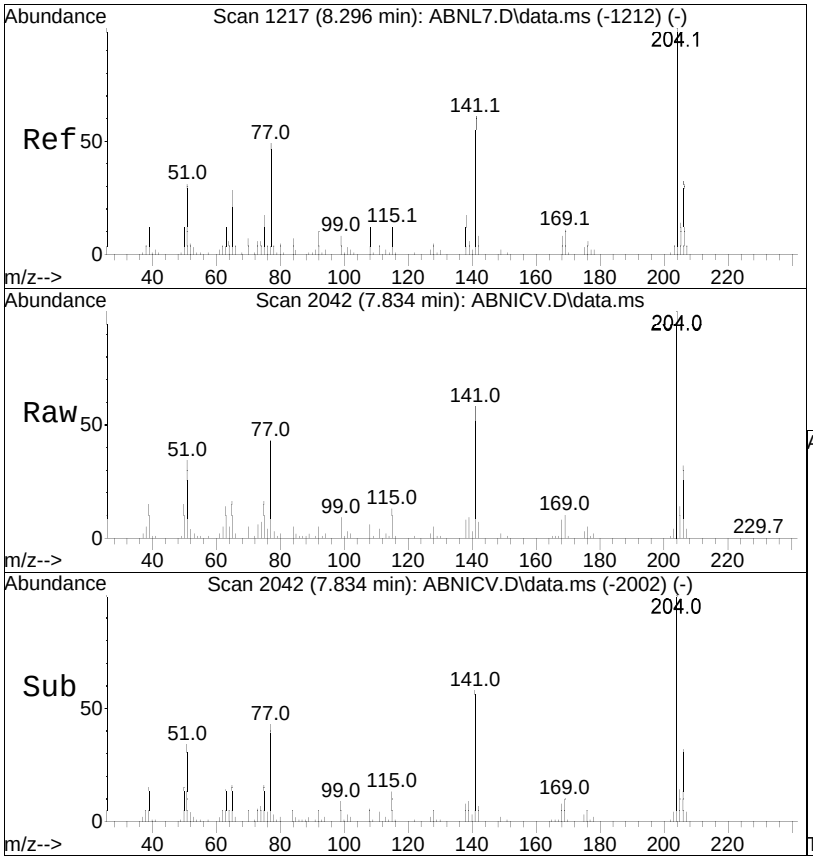


#72
Fluorene
Concen: 49.34 ug/ml
RT: 7.806 min Scan# 2033
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion:166 Resp: 625639

Ion	Ratio	Lower	Upper
166	100		
165	103.1	80.4	120.6
167	13.2	10.7	16.1

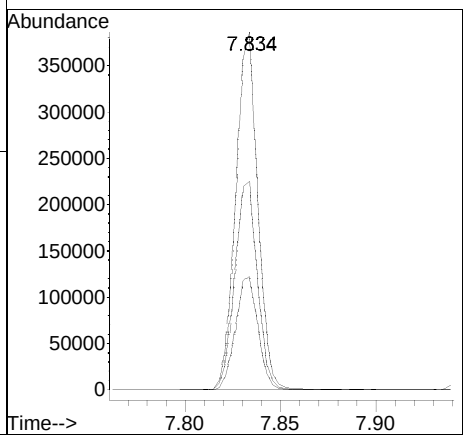


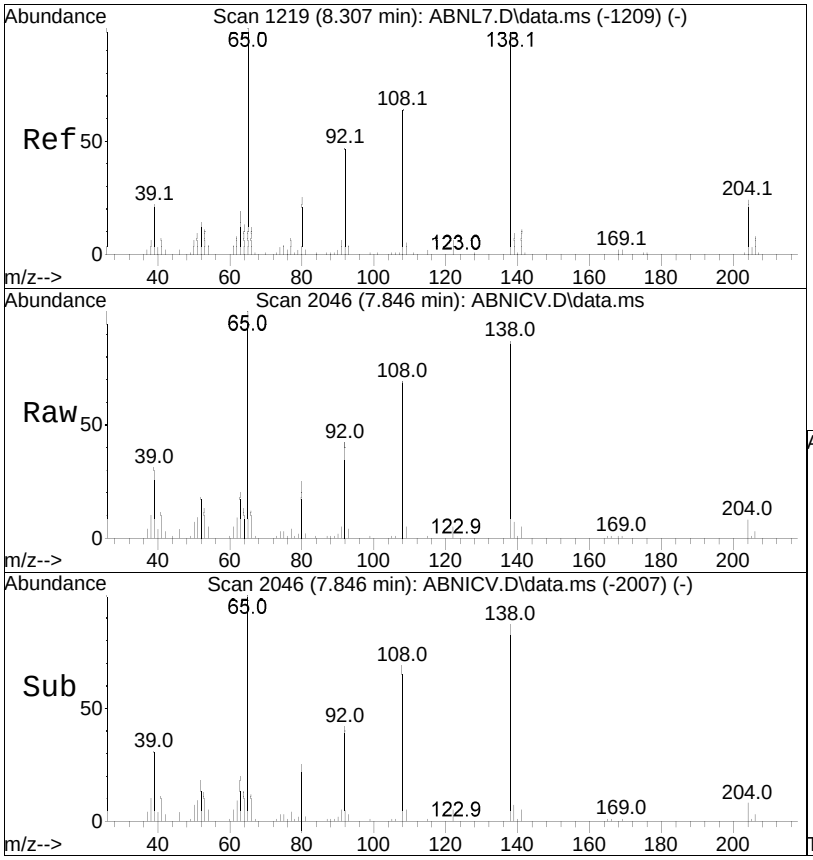


#73
4-Chlorophenyl phenyl ether
Concen: 50.08 ug/ml
RT: 7.834 min Scan# 2042
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion:204 Resp: 307123

Ion	Ratio	Lower	Upper
204	100		
206	32.5	26.0	39.0
141	59.9	48.5	72.7

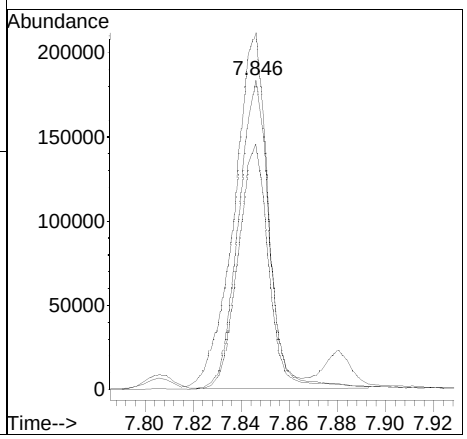


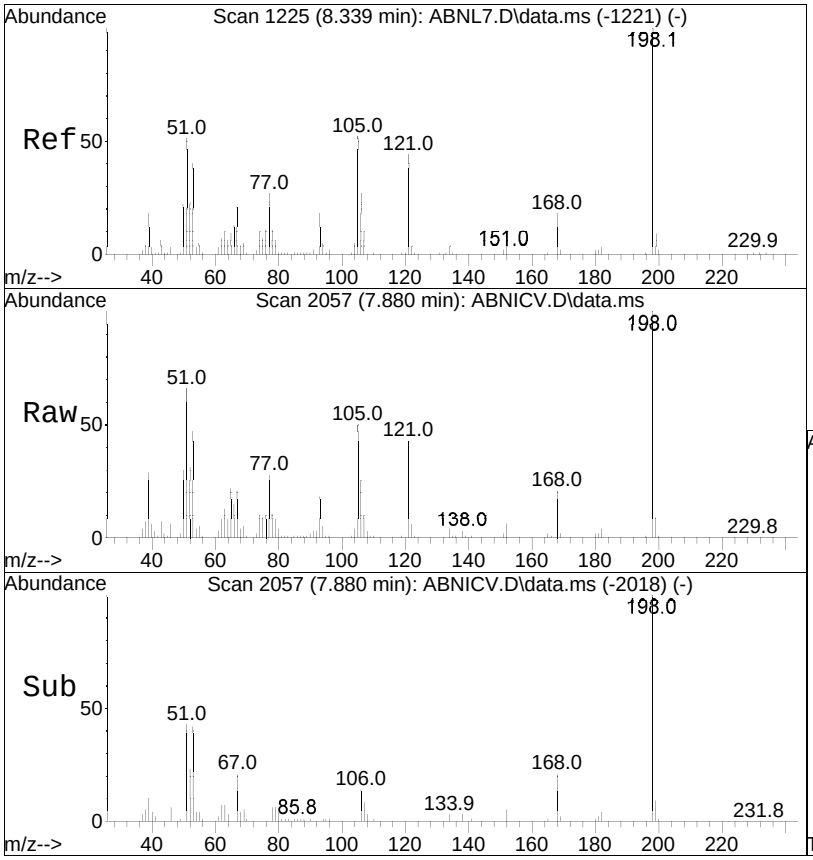


#74
4-Nitroaniline
Concen: 51.82 ug/ml
RT: 7.846 min Scan# 2046
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion:138 Resp: 162226

Ion	Ratio	Lower	Upper
138	100		
108	81.4	54.4	81.6
65	124.1	100.1	150.1

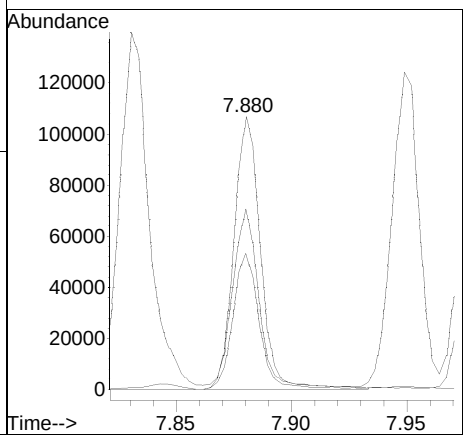


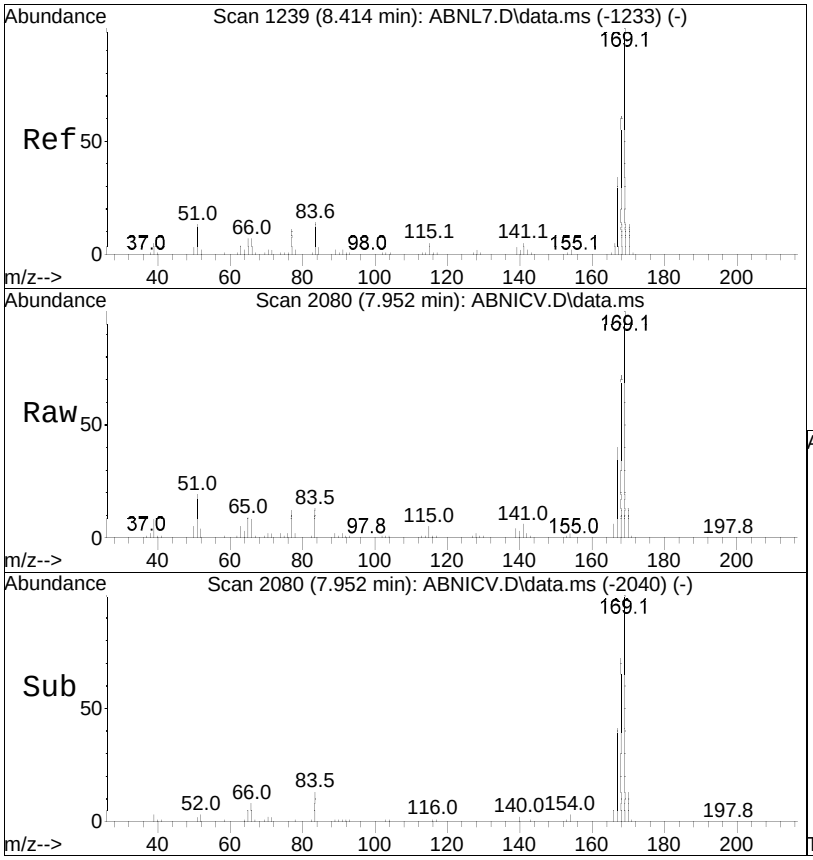


#75
4,6-Dinitro-o-cresol
Concen: 40.68 ug/ml
RT: 7.880 min Scan# 2057
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion:198 Resp: 85938

Ion	Ratio	Lower	Upper
198	100		
51	62.8	48.3	72.5
105	48.9	38.4	57.6

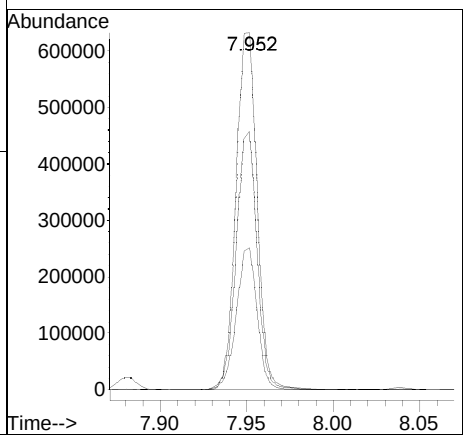


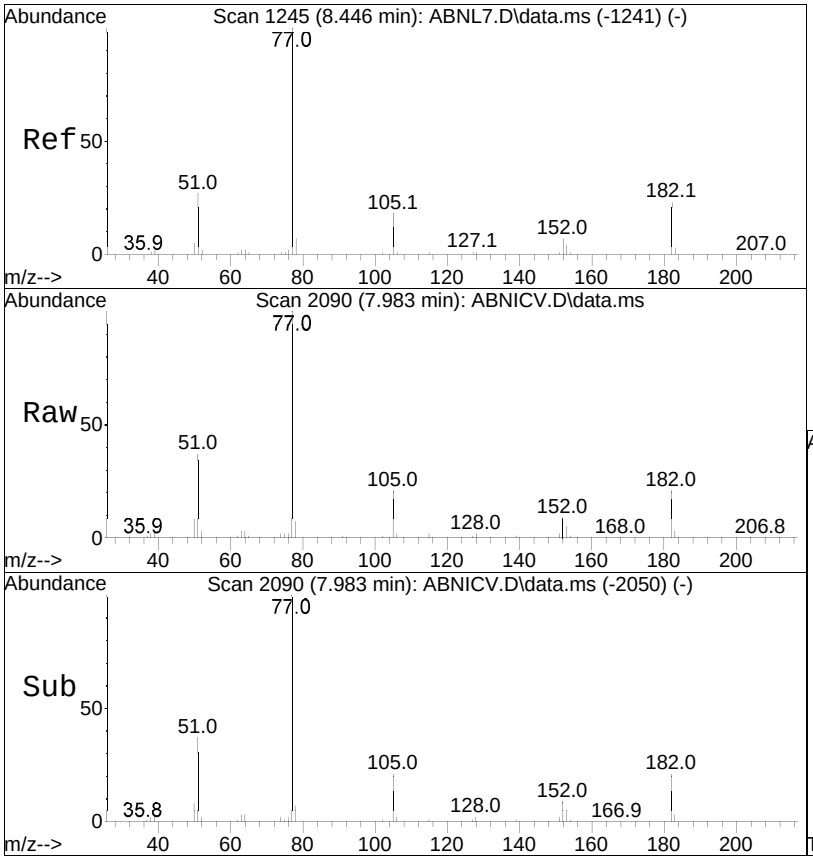


#76
NDPA/DPA
Concen: 50.13 ug/ml
RT: 7.952 min Scan# 2080
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion:169 Resp: 538868

Ion	Ratio	Lower	Upper
169	100		
168	71.4	57.2	85.8
167	39.8	31.0	46.4

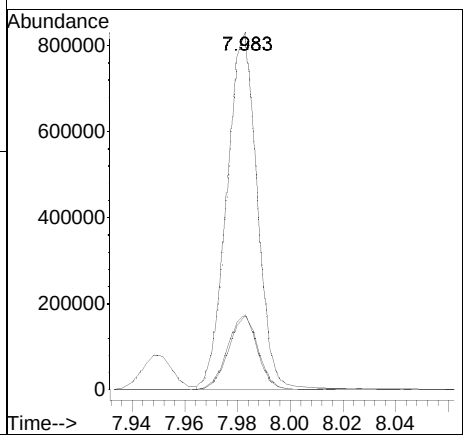


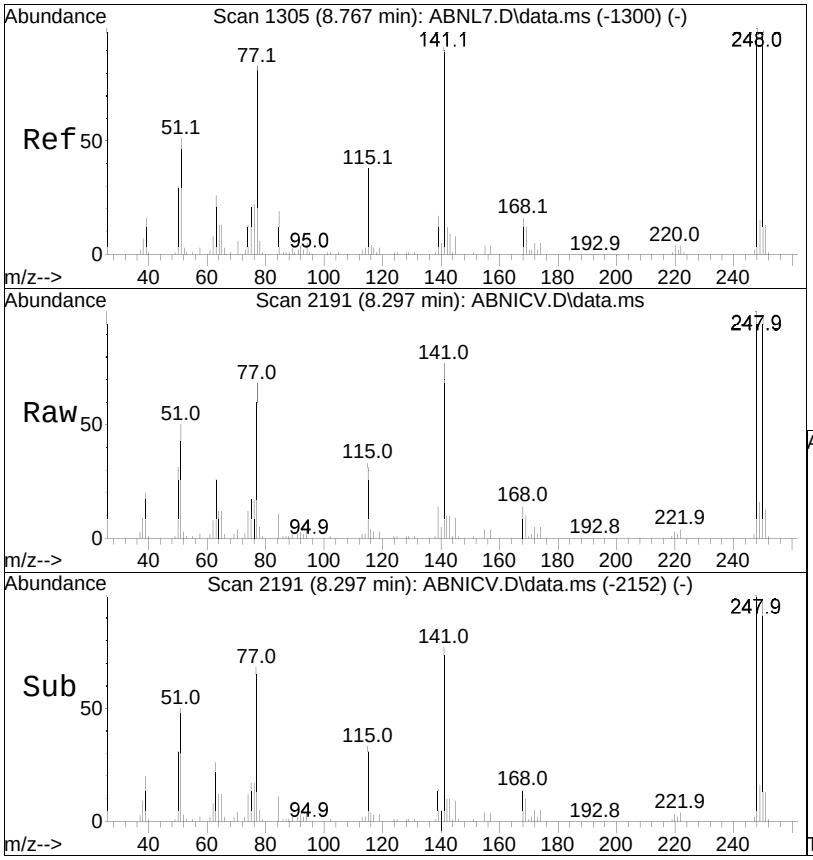


#77
Azobenzene
Concen: 50.03 ug/ml
RT: 7.983 min Scan# 2090
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion: 77 Resp: 655361

Ion	Ratio	Lower	Upper
77	100		
182	20.8	17.2	25.8
105	21.0	17.1	25.7

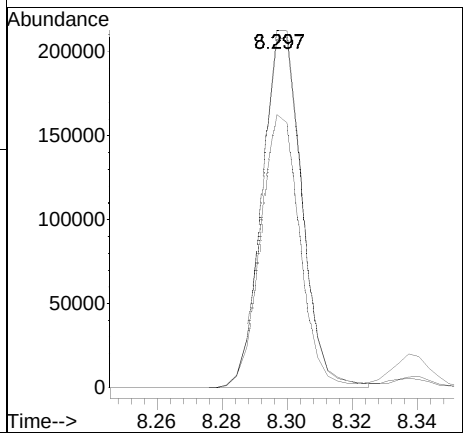


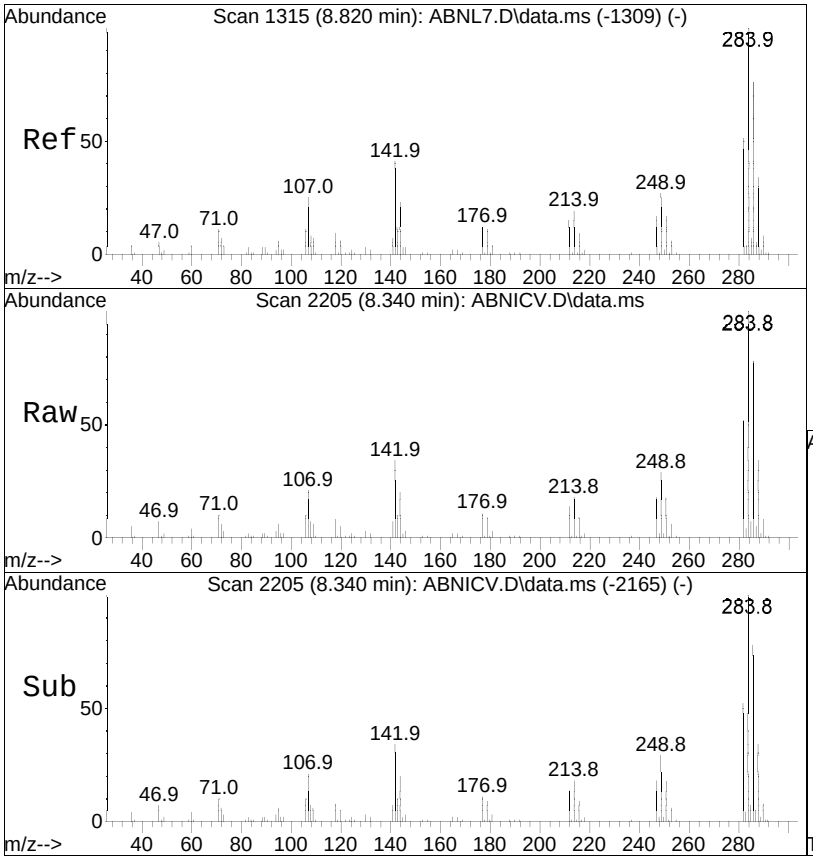


#79
4-Bromophenyl phenyl ether
Concen: 48.13 ug/ml
RT: 8.297 min Scan# 2191
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion:248 Resp: 180108

Ion	Ratio	Lower	Upper
248	100		
141	75.2	59.9	89.9
250	98.5	78.0	117.0

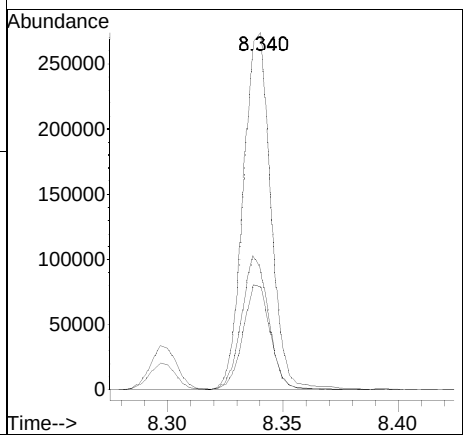


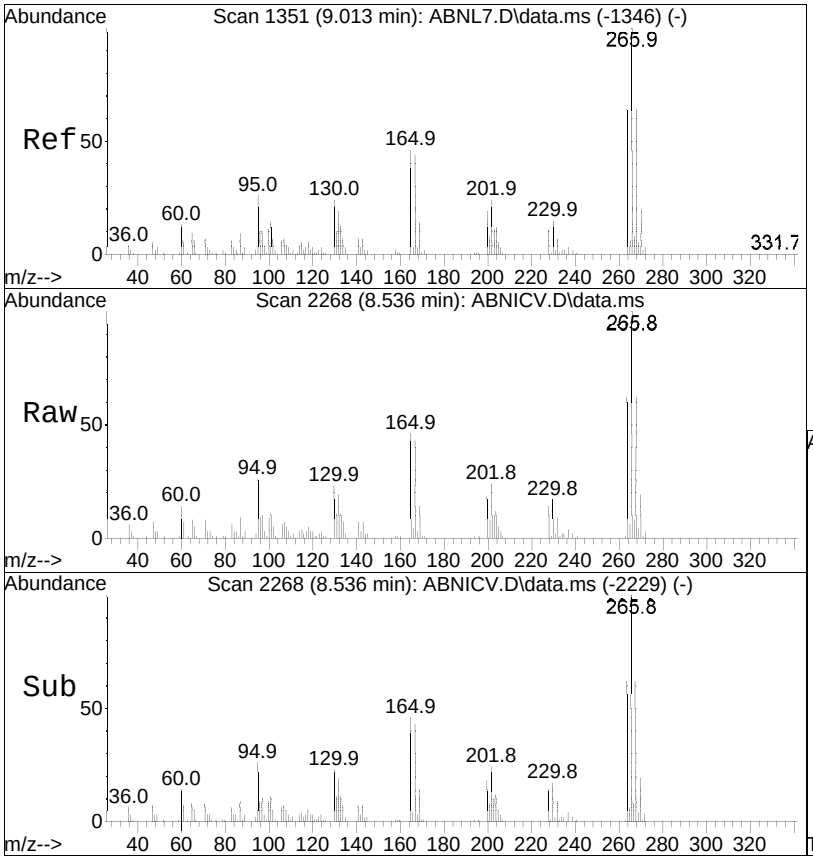


#80
Hexachlorobenzene
Concen: 49.05 ug/ml
RT: 8.340 min Scan# 2205
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion:284 Resp: 227510

Ion	Ratio	Lower	Upper
284	100		
142	37.2	30.6	46.0
249	29.5	24.2	36.2

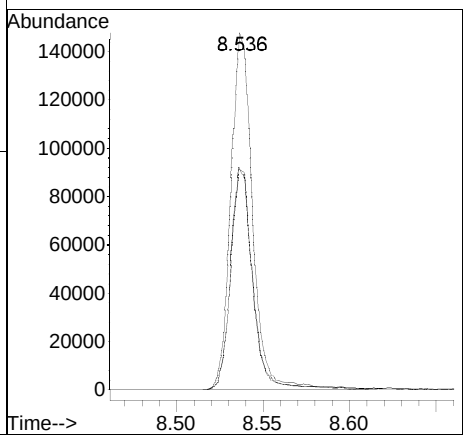


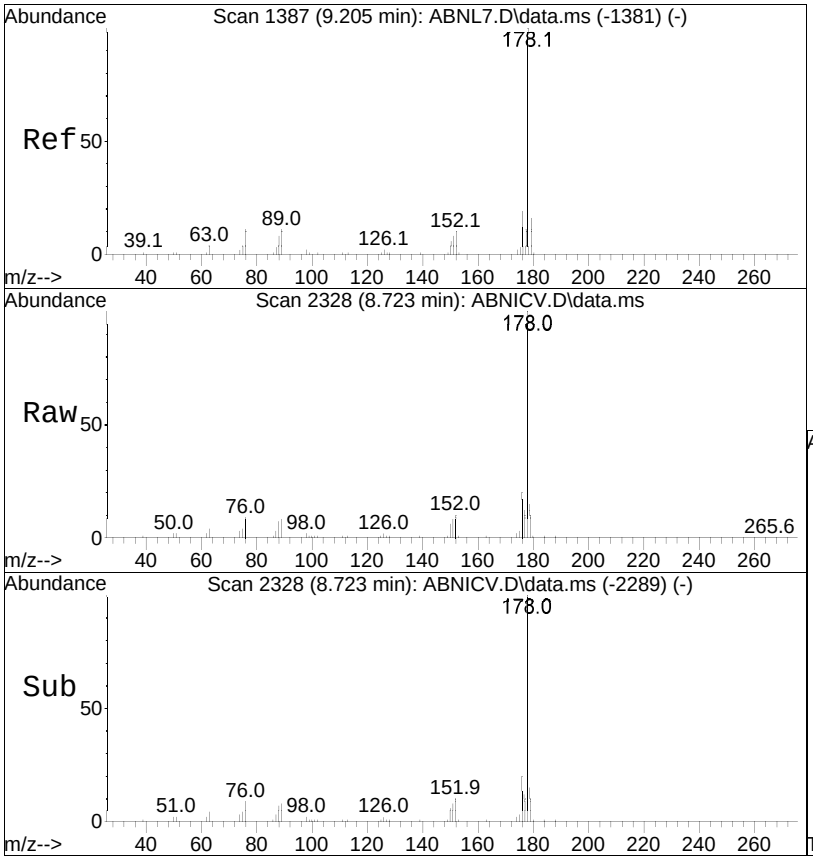


#81
Pentachlorophenol
Concen: 45.44 ug/ml
RT: 8.536 min Scan# 2268
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion:266 Resp: 130352

Ion	Ratio	Lower	Upper
266	100		
264	62.3	50.2	75.4
268	62.9	50.7	76.1

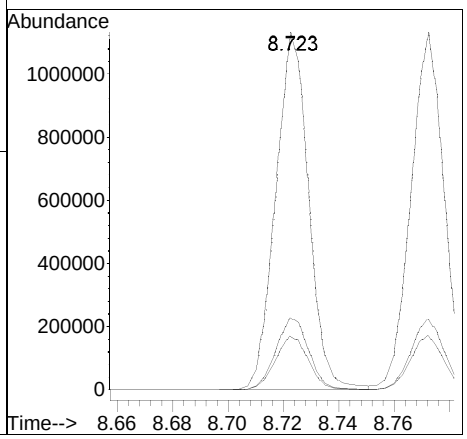


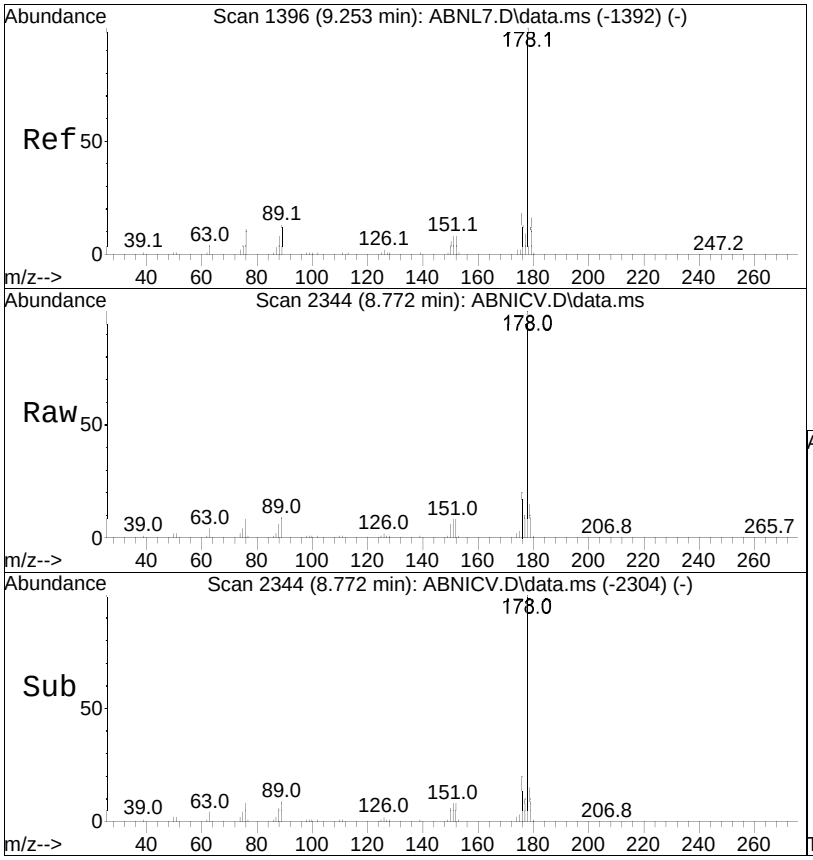


#88
Phenanthrene
Concen: 48.12 ug/ml
RT: 8.723 min Scan# 2328
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion:178 Resp: 938352

Ion	Ratio	Lower	Upper
178	100		
179	15.2	12.2	18.4
176	20.2	15.5	23.3

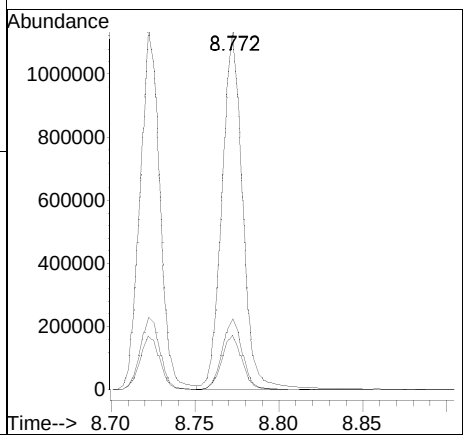


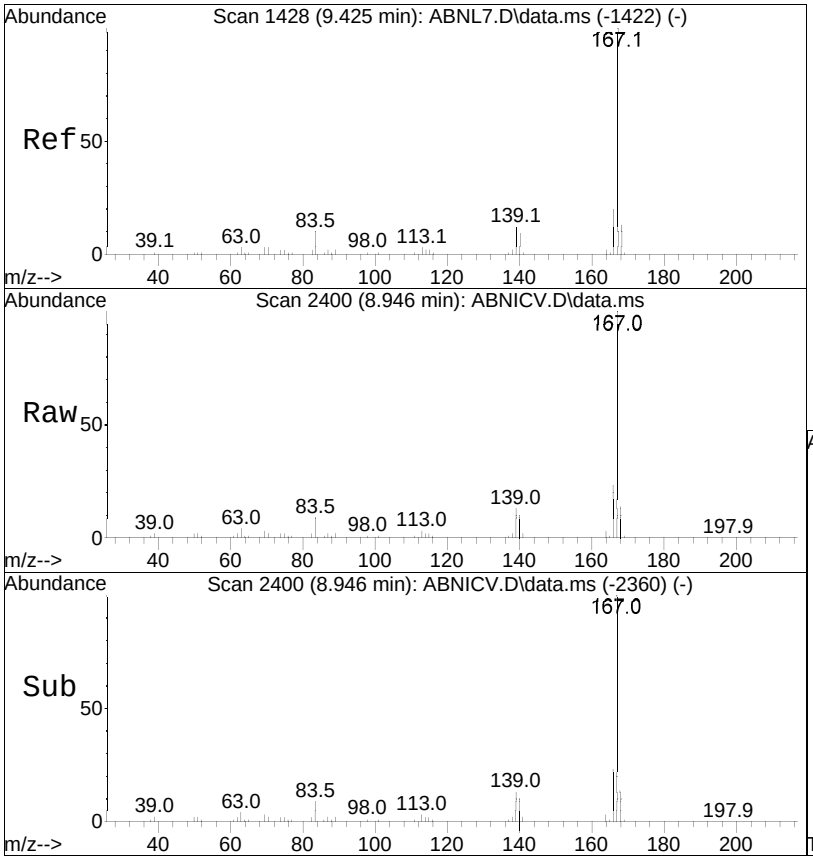


#89
Anthracene
Concen: 50.08 ug/ml
RT: 8.772 min Scan# 2344
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion:178 Resp: 969207

Ion	Ratio	Lower	Upper
178	100		
179	15.0	12.3	18.5
176	19.8	15.0	22.6

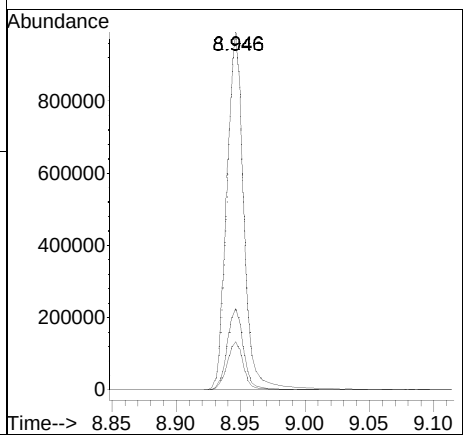


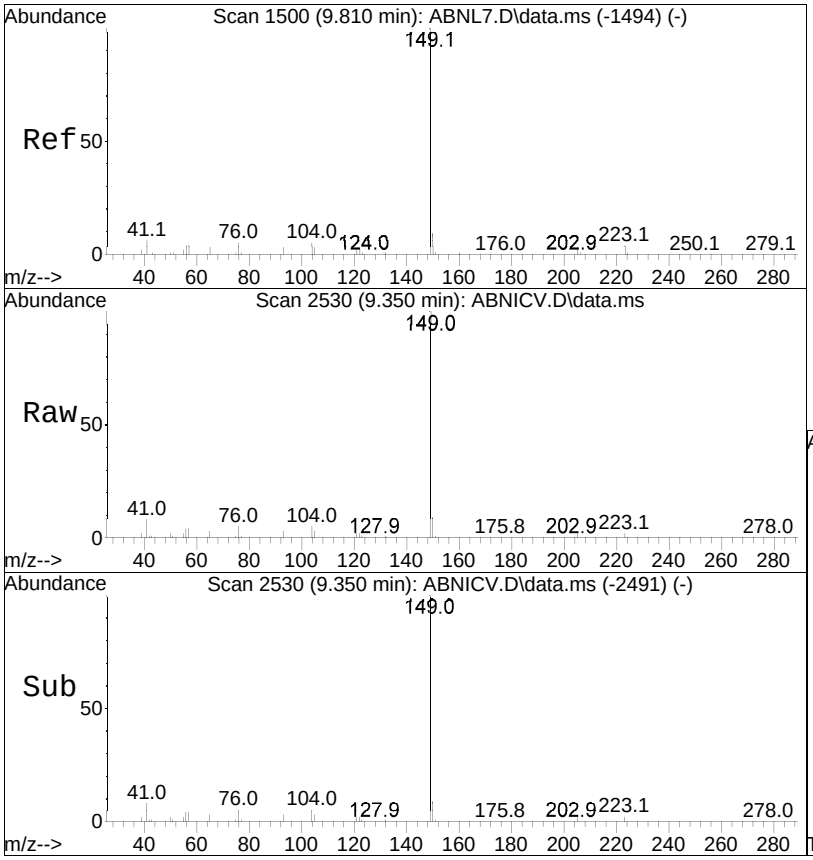


#90
Carbazole
Concen: 49.87 ug/ml
RT: 8.946 min Scan# 2400
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion:167 Resp: 897602

Ion	Ratio	Lower	Upper
167	100		
168	13.5	10.6	16.0
166	22.5	18.0	27.0

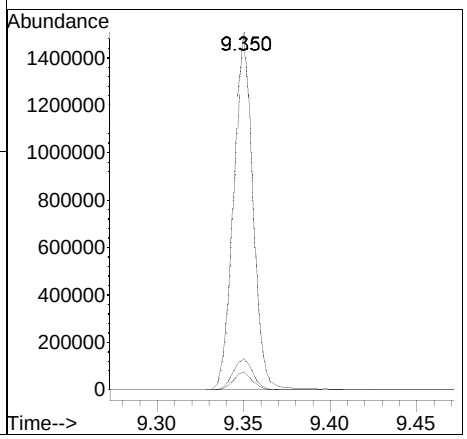


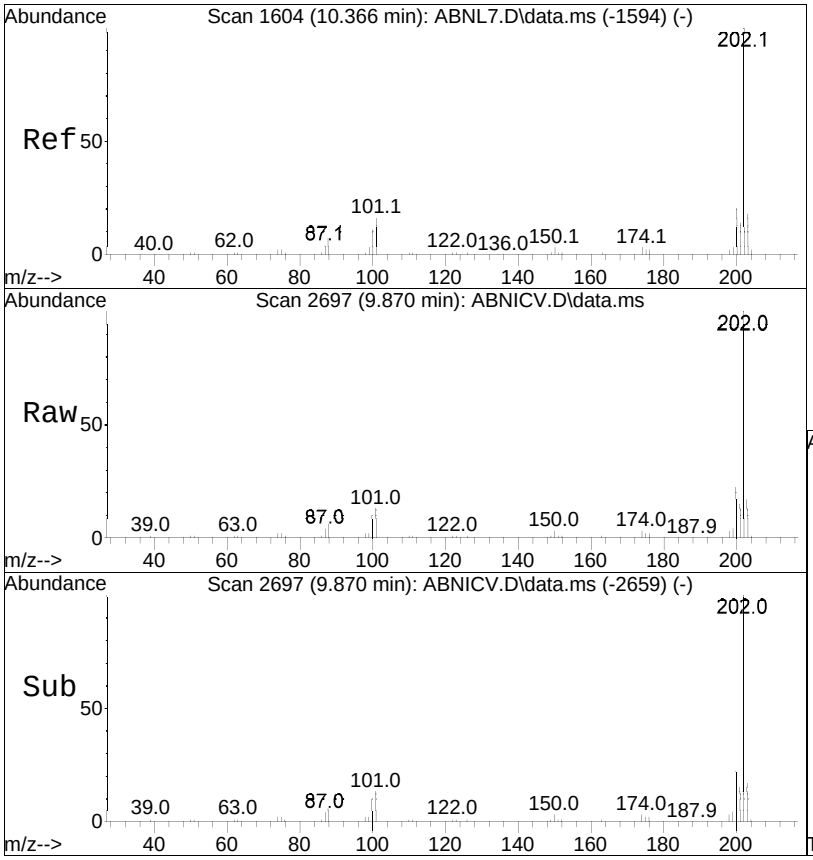


#91
Di-n-butylphthalate
Concen: 51.41 ug/ml
RT: 9.350 min Scan# 2530
Delta R.T. -0.004 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion:149 Resp: 1155487

Ion	Ratio	Lower	Upper
149	100		
150	9.0	7.3	10.9
104	4.9	3.6	5.4

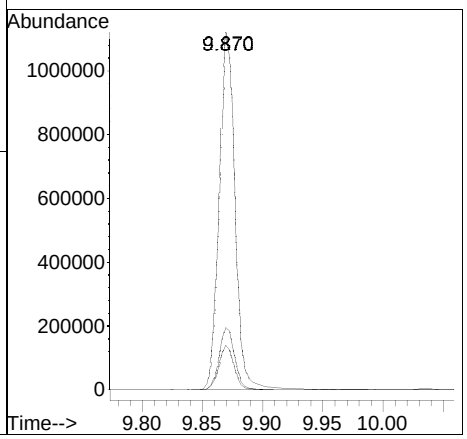


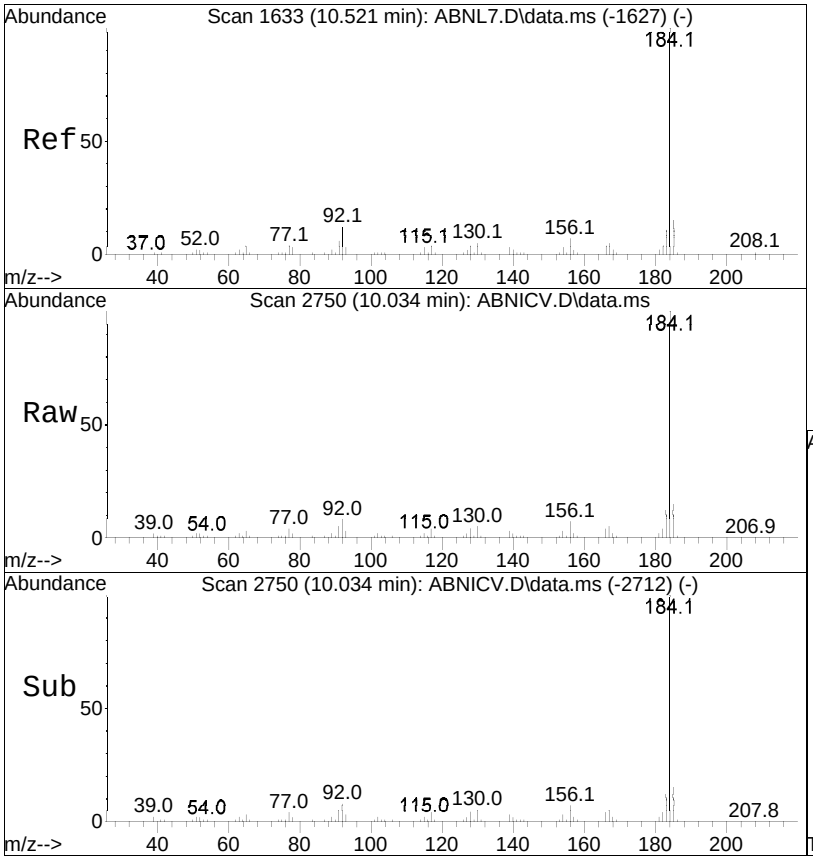


#92
Fluoranthene
Concen: 48.99 ug/ml
RT: 9.870 min Scan# 2697
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion:202 Resp: 1010725

Ion	Ratio	Lower	Upper
202	100		
101	12.3	11.2	16.8
203	17.4	13.8	20.6

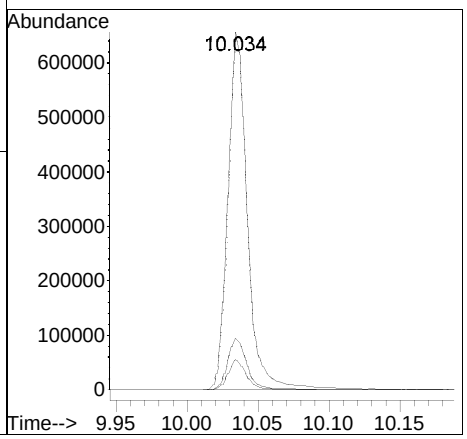


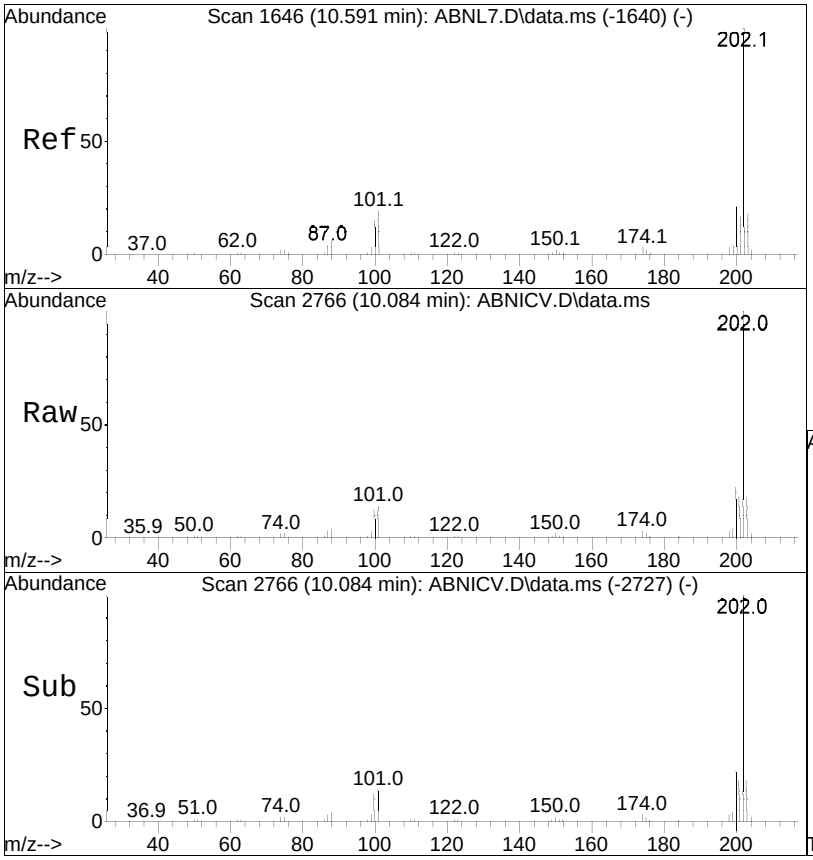


#93
Benzidine
Concen: 47.65 ug/ml
RT: 10.034 min Scan# 2750
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion:184 Resp: 616964

Ion	Ratio	Lower	Upper
184	100		
92	8.1	7.2	10.8
185	14.8	11.3	16.9

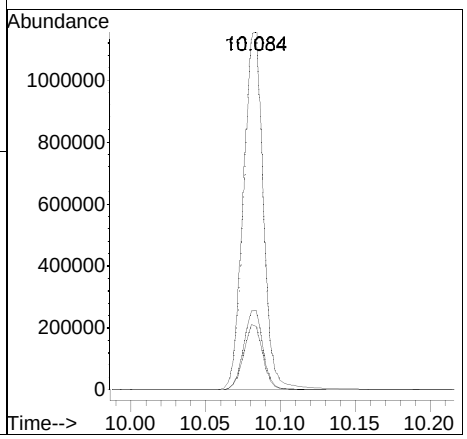


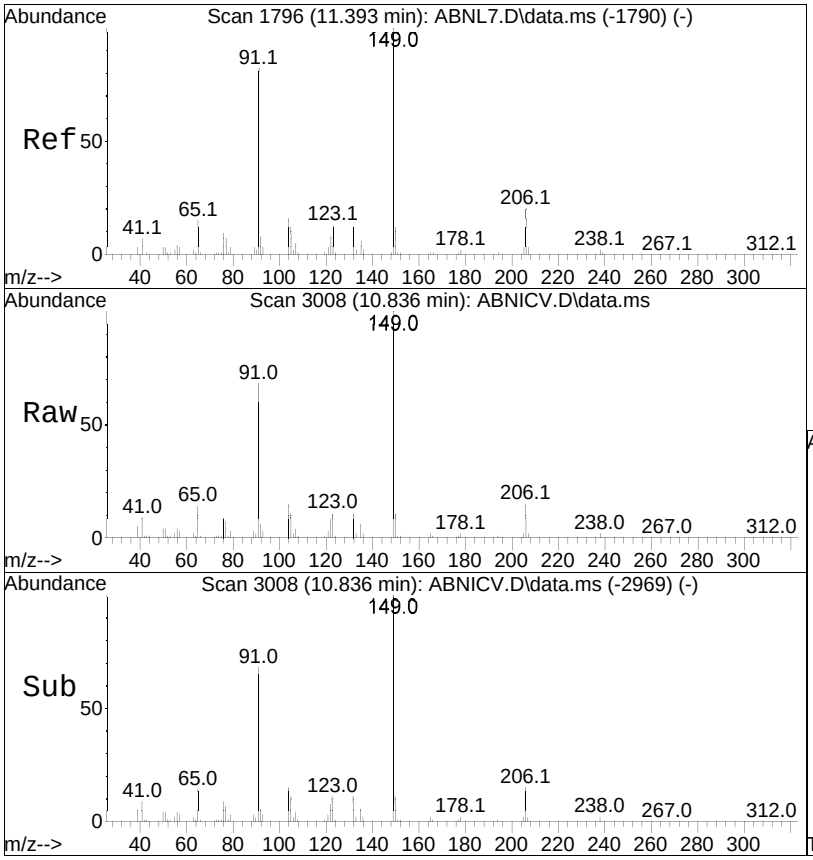


#94
Pyrene
Concen: 48.71 ug/ml
RT: 10.084 min Scan# 2766
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion:202 Resp: 1056456

Ion	Ratio	Lower	Upper
202	100		
200	22.0	17.0	25.4
203	18.1	14.2	21.4

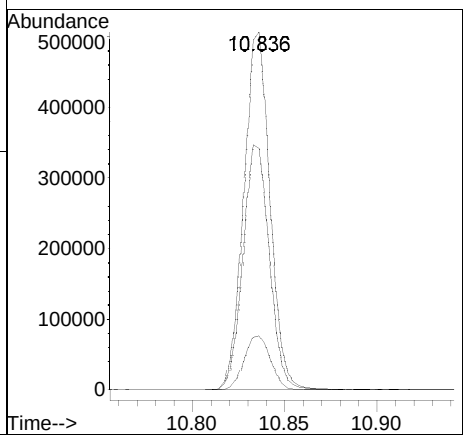


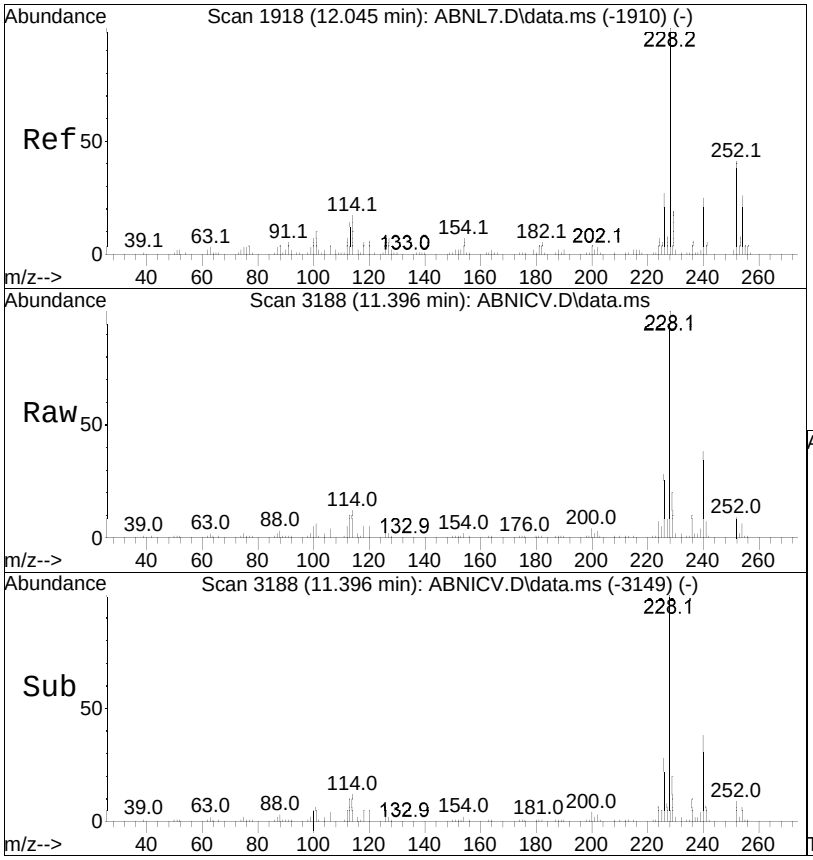


#96
Butyl benzyl phthalate
Concen: 50.74 ug/ml
RT: 10.836 min Scan# 3008
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion:149 Resp: 495804

Ion	Ratio	Lower	Upper
149	100		
91	69.0	54.6	81.8
206	15.5	12.5	18.7

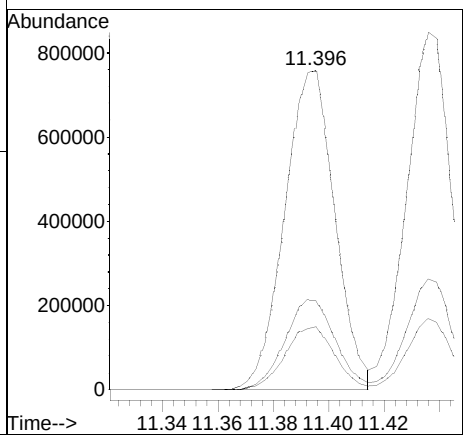


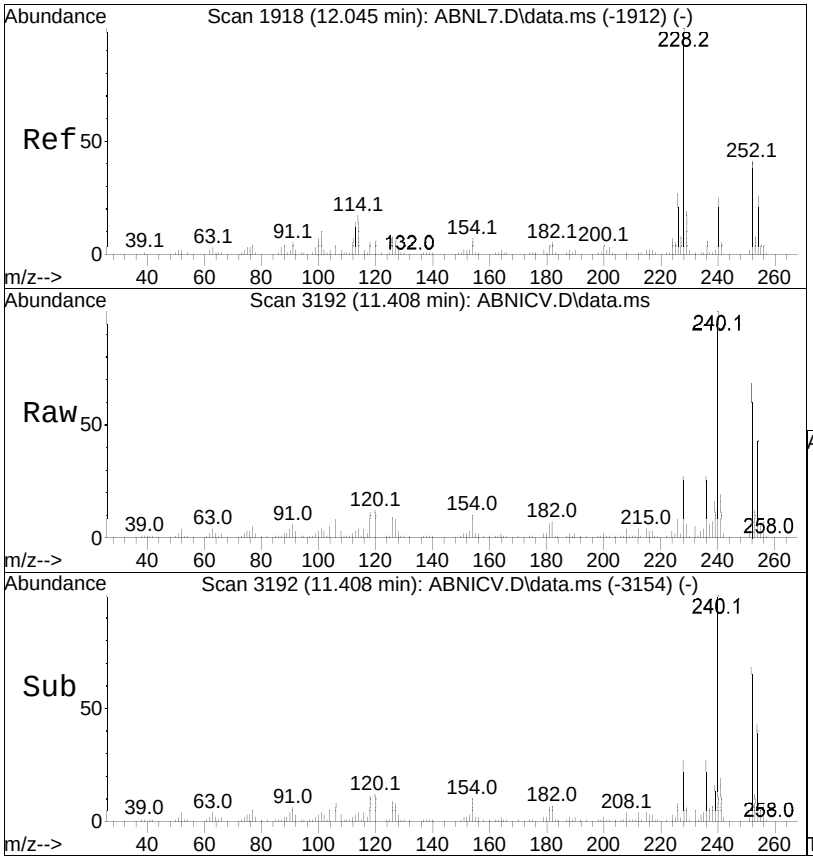


#104
Benzo(a)anthracene
Concen: 44.22 ug/ml
RT: 11.396 min Scan# 3188
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion:228 Resp: 955027

Ion	Ratio	Lower	Upper
228	100		
226	28.6	22.2	33.4
229	19.8	15.6	23.4

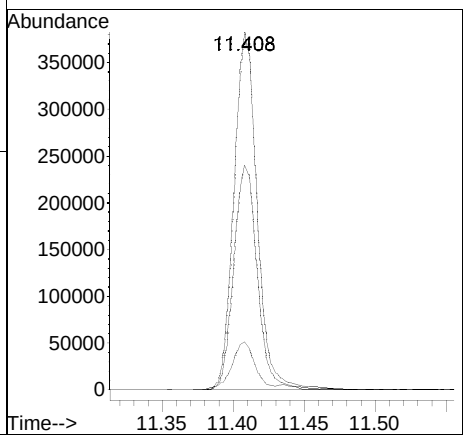


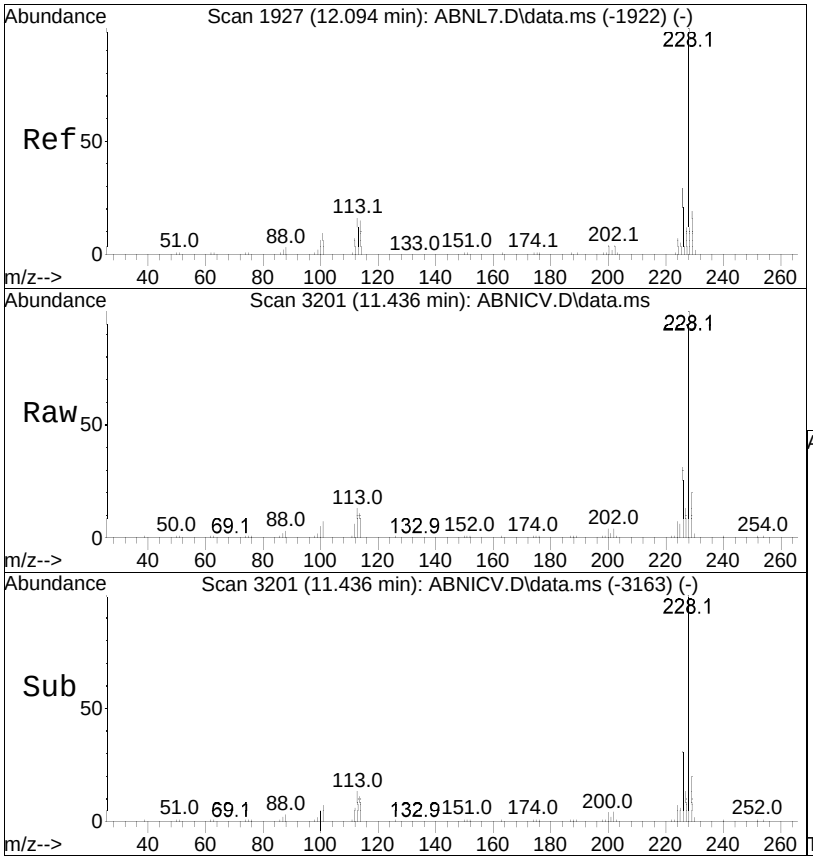


#105
3,3'-Dichlorobenzidine
Concen: 51.06 ug/ml
RT: 11.408 min Scan# 3192
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion:252 Resp: 432709

Ion	Ratio	Lower	Upper
252	100		
126	13.6	12.4	18.6
254	63.5	51.8	77.6

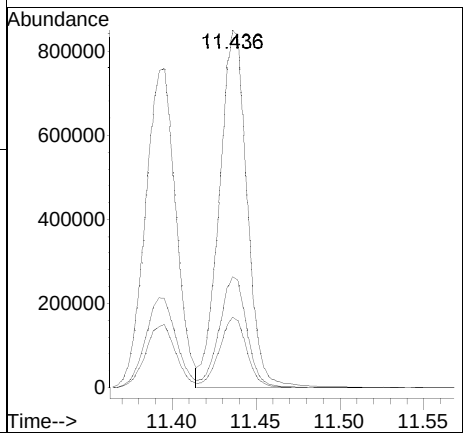


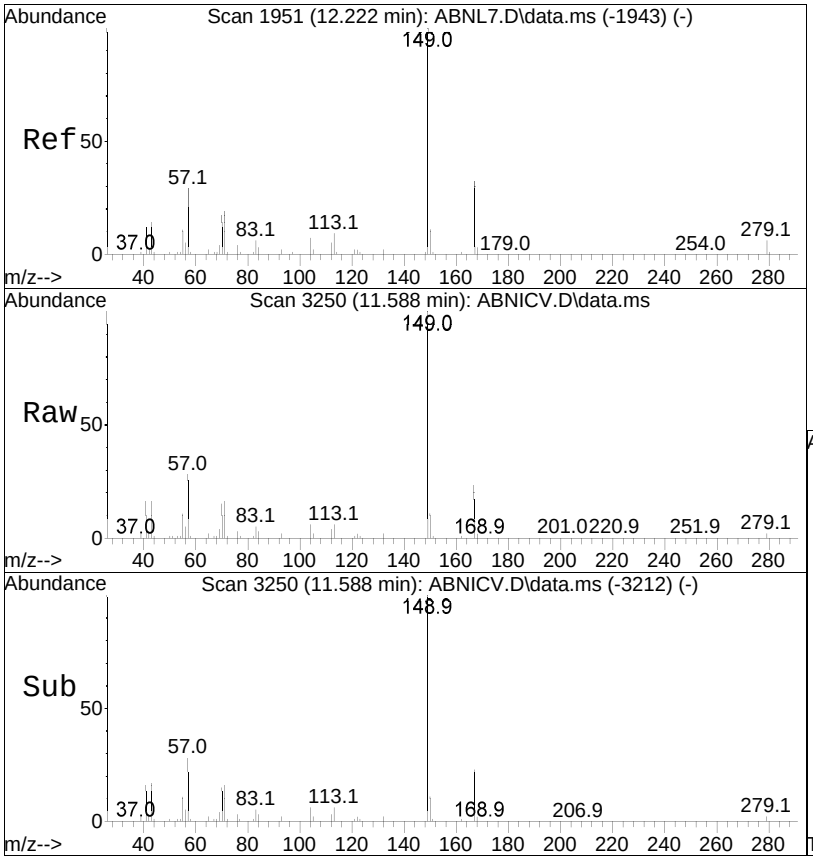


#106
Chrysene
Concen: 46.99 ug/ml
RT: 11.436 min Scan# 3201
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion:228 Resp: 973207

Ion	Ratio	Lower	Upper
228	100		
226	30.9	24.3	36.5
229	19.6	15.5	23.3

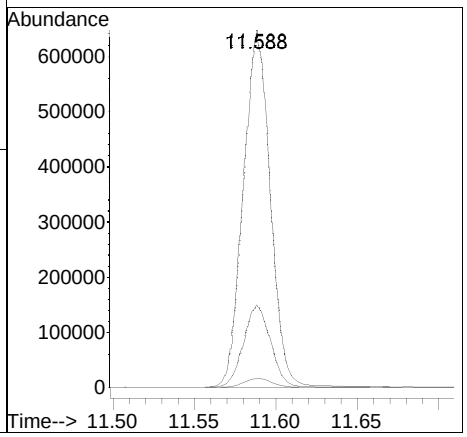


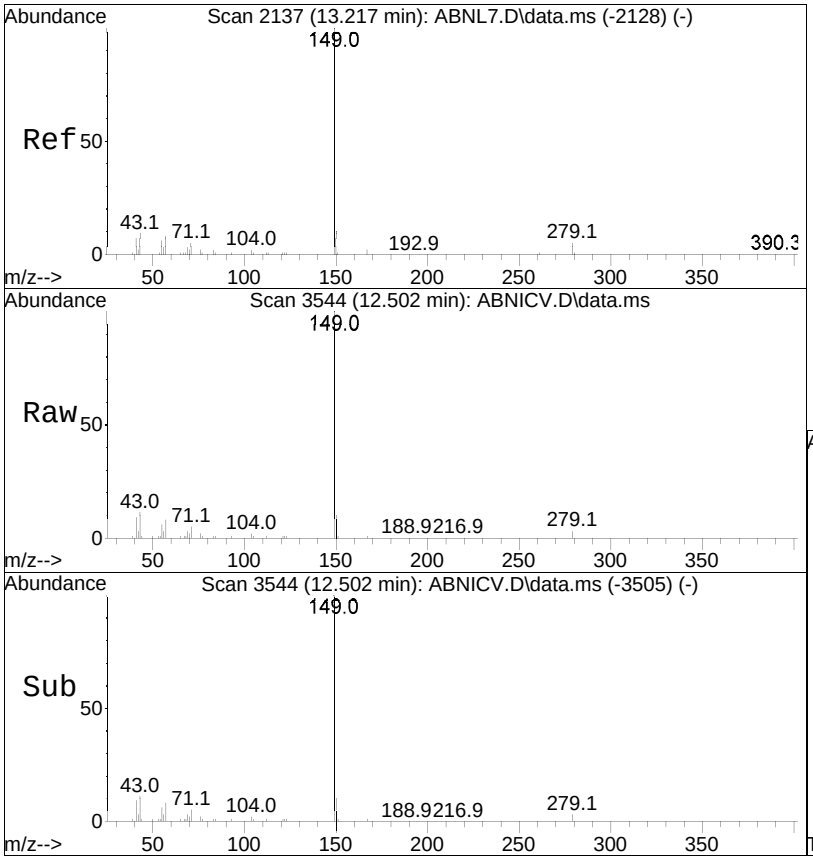


#107
Bis(2-ethylhexyl)phthalate
Concen: 52.56 ug/ml
RT: 11.588 min Scan# 3250
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion:149 Resp: 739995

Ion	Ratio	Lower	Upper
149	100		
167	23.4	19.0	28.6
279	2.5	2.0	3.0

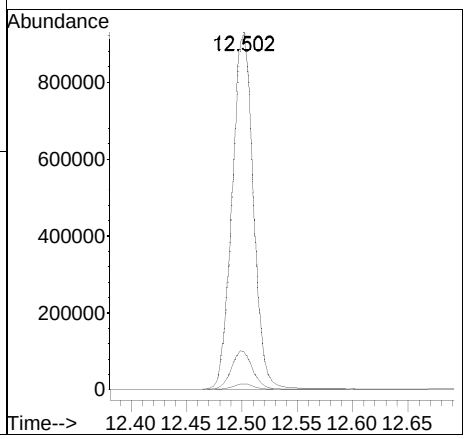


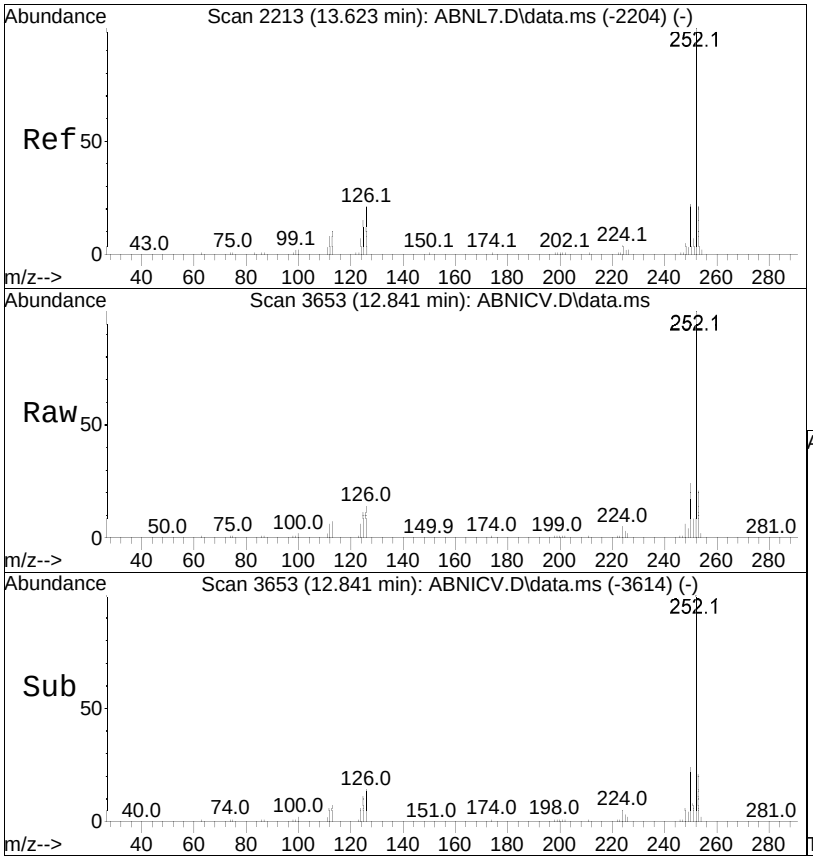


#108
Di-n-octylphthalate
Concen: 52.51 ug/ml
RT: 12.502 min Scan# 3544
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion:149 Resp: 1219717

Ion	Ratio	Lower	Upper
149	100		
43	11.0	9.0	13.4
167	1.4	1.1	1.7

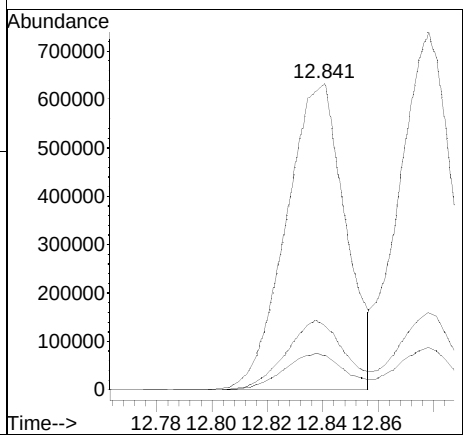


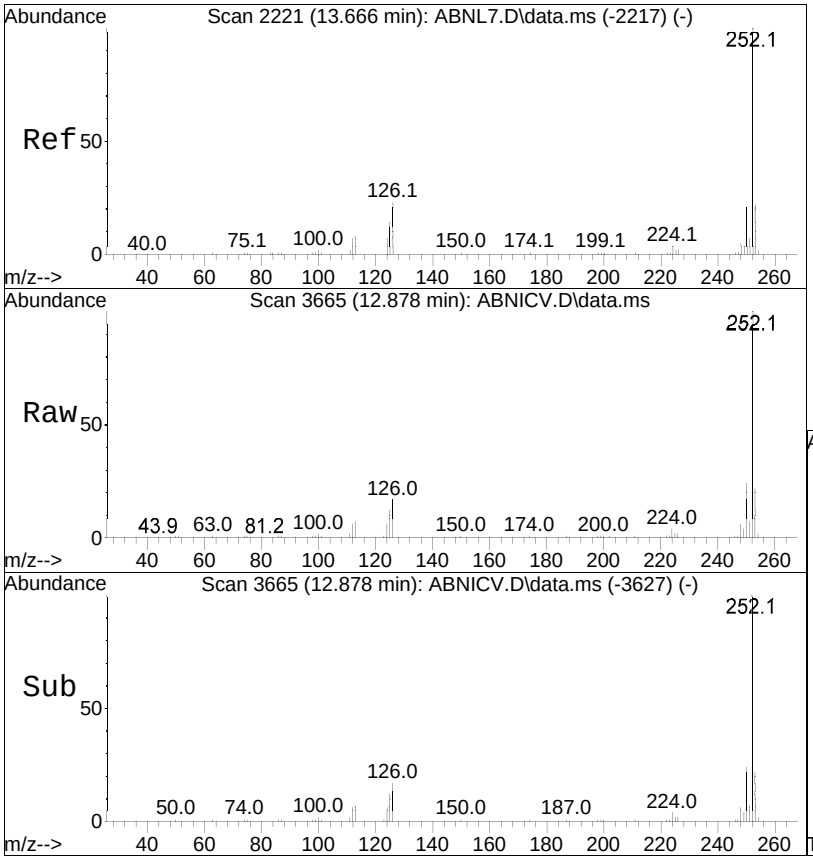


#109
Benzo(b)fluoranthene
Concen: 48.31 ug/ml
RT: 12.841 min Scan# 3653
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion:252 Resp: 941998

Ion	Ratio	Lower	Upper
252	100		
125	12.2	11.4	17.0
253	22.3	17.5	26.3

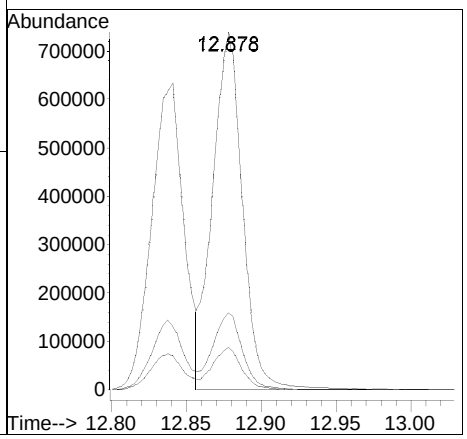


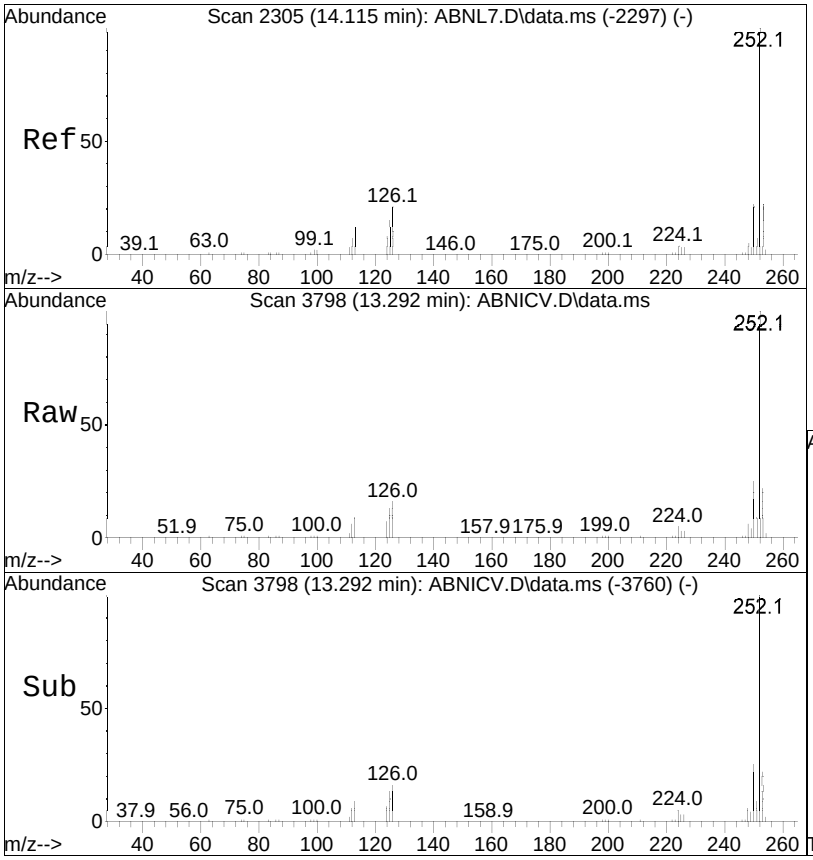


#110
Benzo(k)fluoranthene
Concen: 47.21 ug/ml
RT: 12.878 min Scan# 3665
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion:252 Resp: 1021414

Ion	Ratio	Lower	Upper
252	100		
125	11.9	11.0	16.6
253	21.6	17.4	26.0

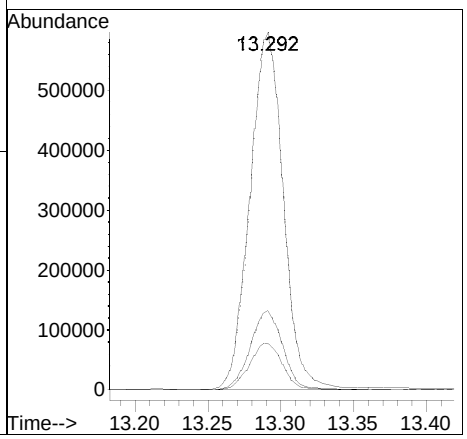


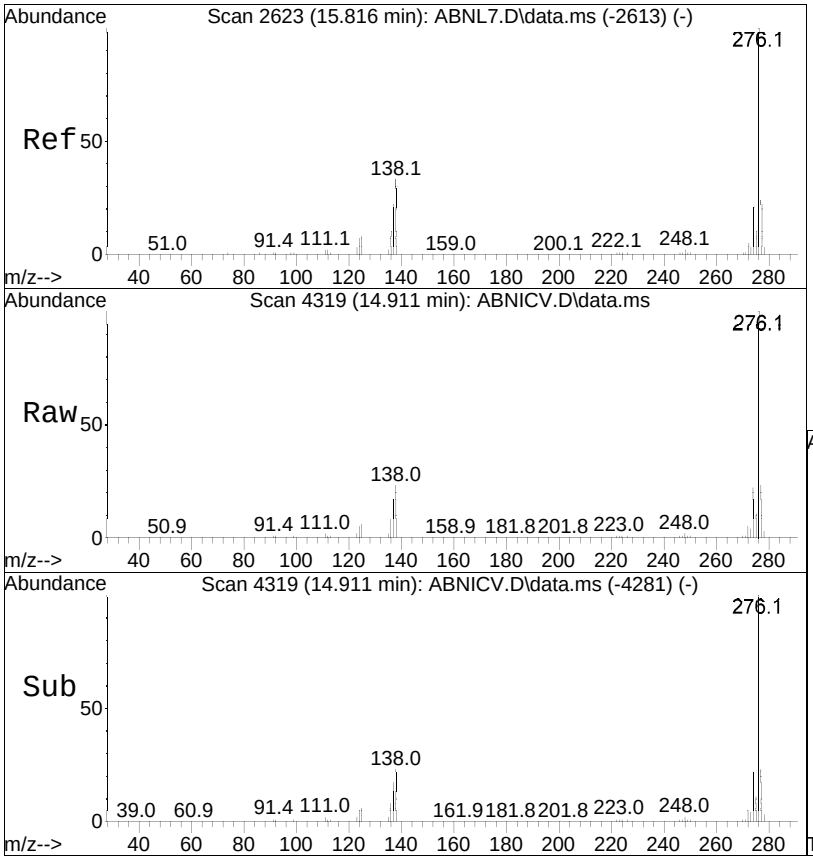


#111
Benzo(a)pyrene
Concen: 47.97 ug/ml
RT: 13.292 min Scan# 3798
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion:252 Resp: 943484

Ion	Ratio	Lower	Upper
252	100		
125	13.1	12.4	18.6
253	21.8	17.6	26.4

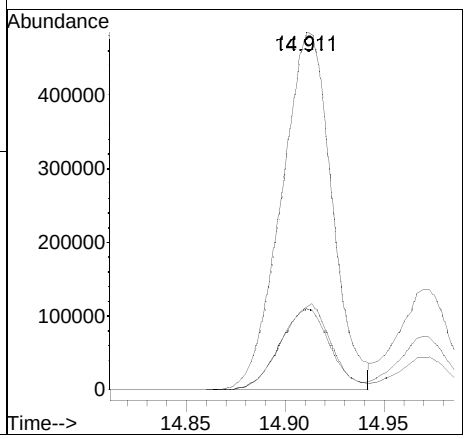


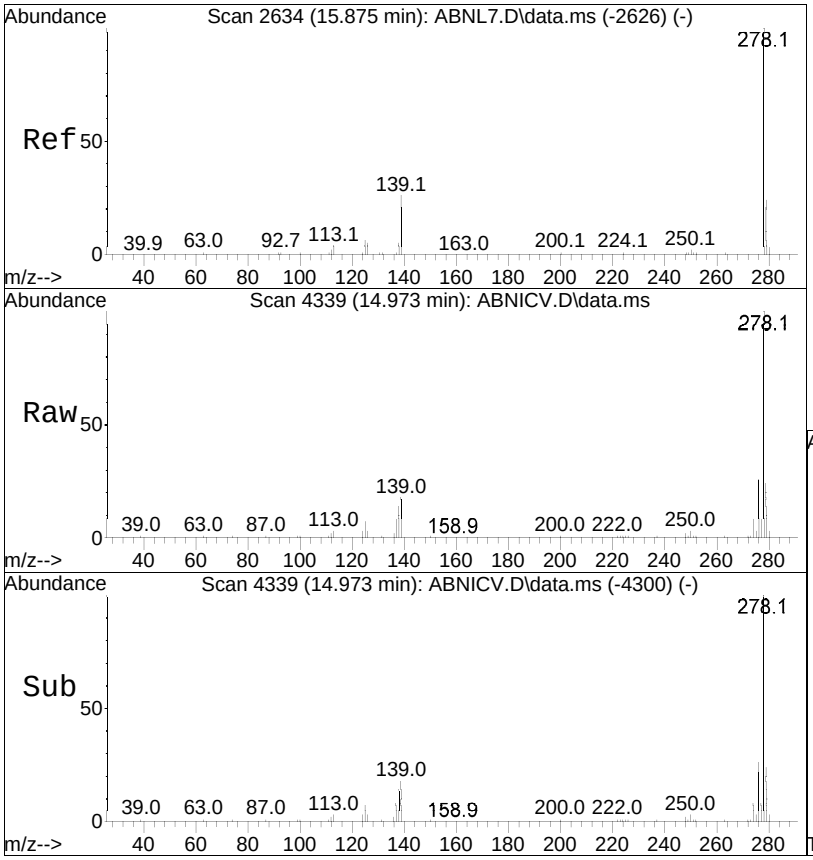


#113
Indeno(1,2,3-cd)pyrene
Concen: 49.49 ug/ml
RT: 14.911 min Scan# 4319
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion:276 Resp: 855017

Ion	Ratio	Lower	Upper
276	100		
138	22.8	21.0	31.6
277	23.8	19.1	28.7

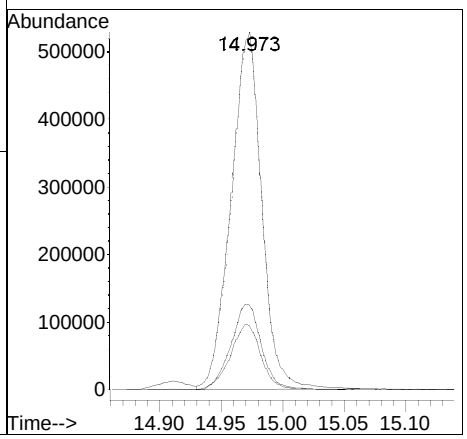


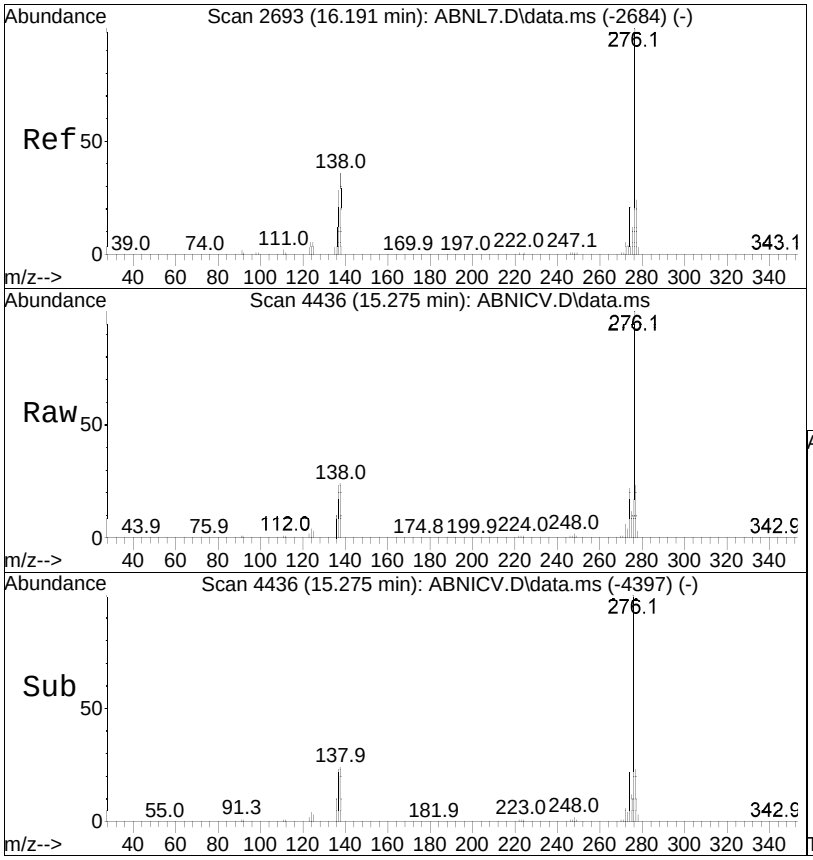


#114
Dibenzo(a,h)anthracene
Concen: 50.02 ug/ml
RT: 14.973 min Scan# 4339
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion:278 Resp: 909036

Ion	Ratio	Lower	Upper
278	100		
139	18.5	16.9	25.3
279	23.9	19.2	28.8

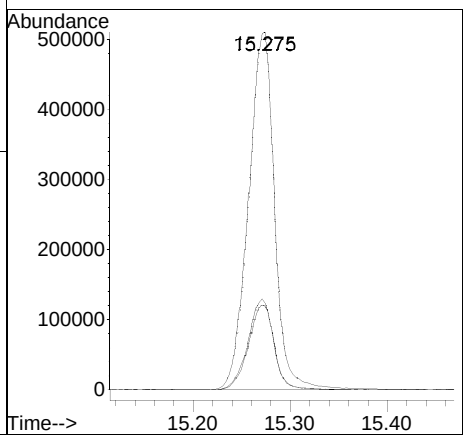




#115
Benzo(ghi)perylene
Concen: 48.62 ug/ml
RT: 15.275 min Scan# 4436
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 4 Oct 2018 6:09 am

Tgt Ion:276 Resp: 939909

Ion	Ratio	Lower	Upper
276	100		
138	25.3	22.9	34.3
277	23.9	18.9	28.3



Manual Integration Report

Data Path	: I:\8270\SV109\181003nical\	QMethod	: FS1801003nSV109.m
Data File	: ABNICV.D	Operator	: sv109:cb
Date Inj'd	: 10/4/2018 6:09 am	Instrument	: SV109
Sample	: CQICV1,32,,ABNICV Lot# 758	Quant Date	: 10/4/2018 4:40 pm

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV109\181003nical\
Data File : AP9ICV.D
Acq On : 4 Oct 2018 6:34 am
Operator : sv109:cb
Sample : CQICV2,32,,AP9ICV Lot# 7594
Misc : WG1164344,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 04 09:50:16 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 09:48:56 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
27	I	IS2_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	101	0.00
28	T	Benzaldehyde	1.112	1.112	0.0	97	0.00
29	T	Acetophenone	1.902	1.844	3.0	93	0.00
30	T	m-Toluidine	1.869	1.833	1.9	95	0.00
31	T	2-Chloroaniline	1.758	1.708	2.8	94	0.00
54	I	IS2_Naphthalene-d8	1.000	1.000	0.0	98	0.00
55	T	a-Terpineol	0.300	0.296	1.3	94	0.00
56	T	3-Chloroaniline	0.145	0.142	2.1	94	0.00
57	T	2,6-Dichlorophenol	0.268	0.266	0.7	93	0.00
58	T	1-chloro-2-nitrobenzene	0.134	0.133	0.7	92	0.00
59	T	Caprolactam	0.162	0.164	-1.2	93	0.00
60	T	1,2,4,5-Tetrachlorobenzene	0.317	0.305	3.8	94	0.00
61	T	Biphenyl	0.795	0.769	3.3	93	0.00
82	I	IS2_Acenaphthene-d10	1.000	1.000	0.0	97	0.00
83	T	Dichloran	0.178	0.174	2.2	93	0.00
84	T	Pentachloronitrobenzene	0.192	0.183	4.7	94	0.00
97	I	IS2_Phenanthrene-d10	1.000	1.000	0.0	97	0.00
98	T	Diphenamid	0.500	0.501	-0.2	95	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : AP9ICV.D
Acq On : 4 Oct 2018 6:34 am
Operator : sv109:cb
Sample : CQICV2,32,,AP9ICV Lot# 7594
Misc : WG1164344,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 04 09:50:16 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 09:48:56 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\181003nical\AP9L7.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.334	152	187609	40.000	ug/ml	0.00
Standard Area 1 = 185443			Recovery	= 101.17%		
54) IS2_Naphthalene-d8	5.574	136	769487	40.000	ug/ml	0.00
Standard Area 1 = 784330			Recovery	= 98.11%		
82) IS2_Acenaphthene-d10	7.274	164	383731	40.000	ug/ml	0.00
Standard Area 1 = 393571			Recovery	= 97.50%		
97) IS2_Phenanthrene-d10	8.701	188	773650	40.000	ug/ml	0.00
Standard Area 1 = 799036			Recovery	= 96.82%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	3.893	105	260753	49.988	ug/ml	98
29) Acetophenone	4.744	105	432435	48.483	ug/ml	97
30) m-Toluidine	4.828	106	429969	49.041	ug/ml	99
31) 2-Chloroaniline	5.186	127	400525	48.583	ug/ml	98
55) a-Terpineol	5.646	59	284590	49.274	ug/ml	94
56) 3-Chloroaniline	5.658	65	136868	49.186	ug/ml	92
57) 2,6-Dichlorophenol	5.680	162	255378	49.467	ug/ml	98
58) 1-chloro-2-nitrobenzene	5.935	111	127627	49.439	ug/ml	94
59) Caprolactam	5.984	55	157597	50.432	ug/ml	97
60) 1,2,4,5-Tetrachloroben...	6.444	216	293433	48.072	ug/ml	99
61) Biphenyl	6.740	154	739843	48.360	ug/ml	100
83) Dichloran	8.406	206	83660	49.106	ug/ml	94
84) Pentachloronitrobenzene	8.549	237	87960	47.641	ug/ml	99
98) Diphenamid	9.618	167	484294	50.063	ug/ml	97

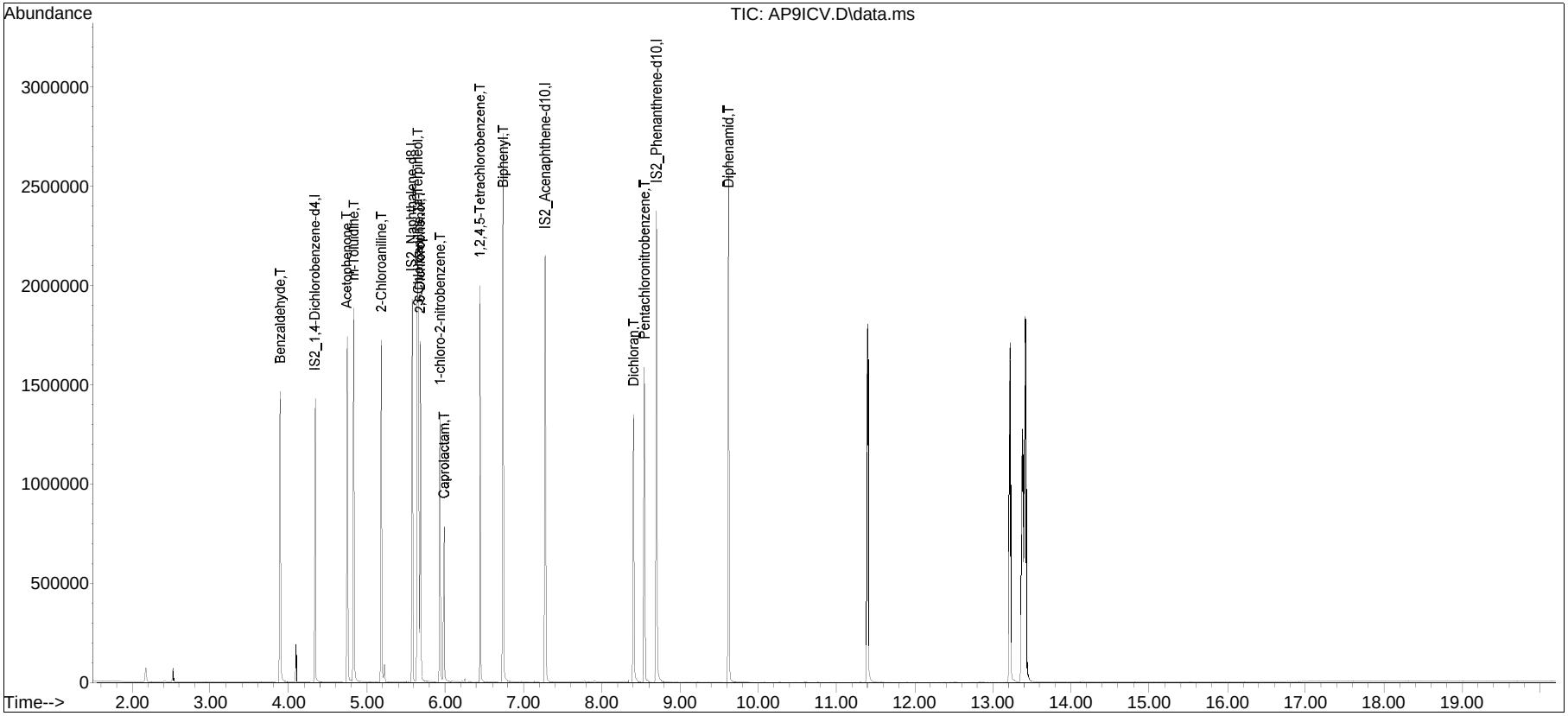
(#) = qualifier out of range (m) = manual integration (+) = signals summed

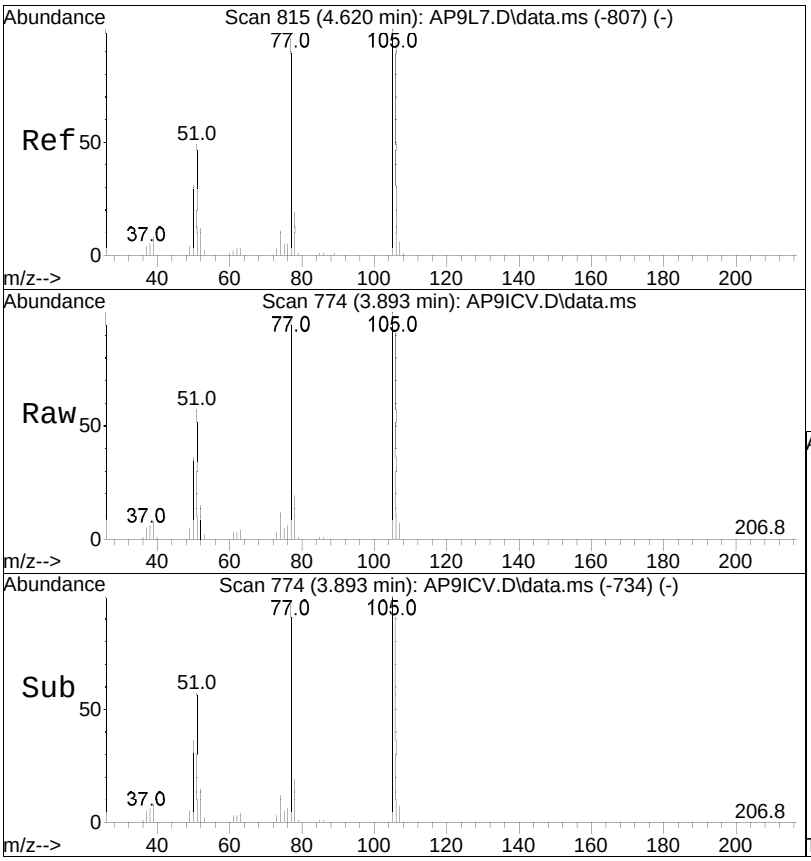
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : AP9ICV.D
Acq On : 4 Oct 2018 6:34 am
Operator : sv109:cb
Sample : CQICV2,32,,AP9ICV Lot# 7594
Misc : WG1164344,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Oct 04 09:50:16 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 09:48:56 2018
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistcal\AP9L7.D•

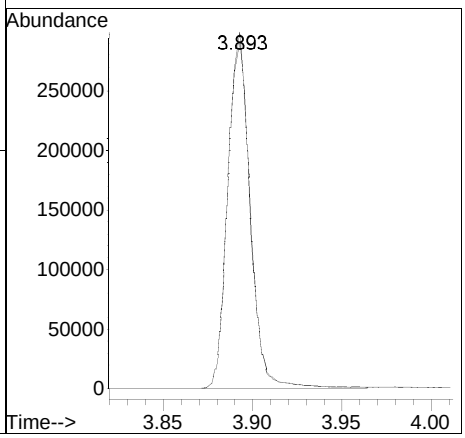


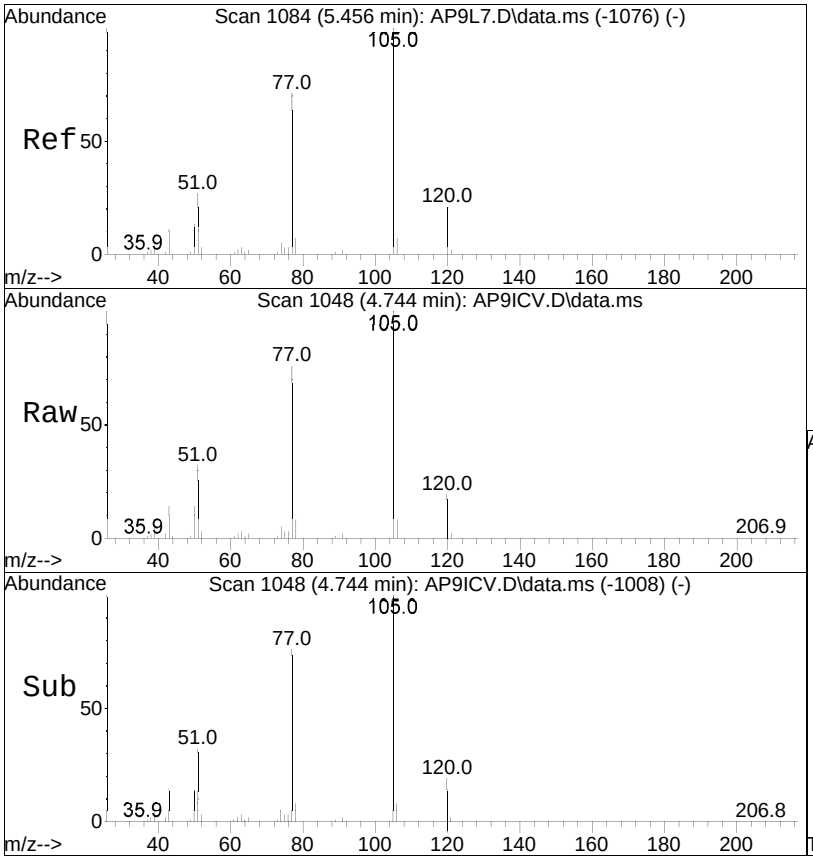


#28
Benzaldehyde
Concen: 49.99 ug/ml
RT: 3.893 min Scan# 774
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 4 Oct 2018 6:34 am

Tgt Ion:105 Resp: 260753

Ion	Ratio	Lower	Upper
105	100		
77	98.4	76.9	115.3

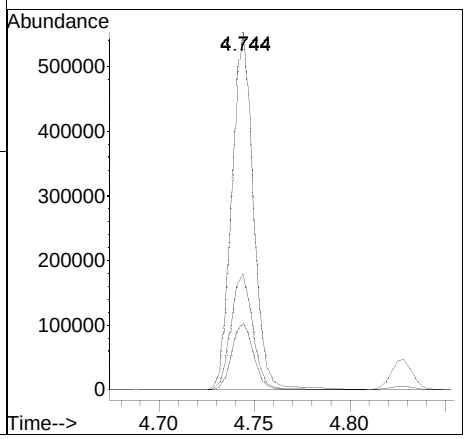


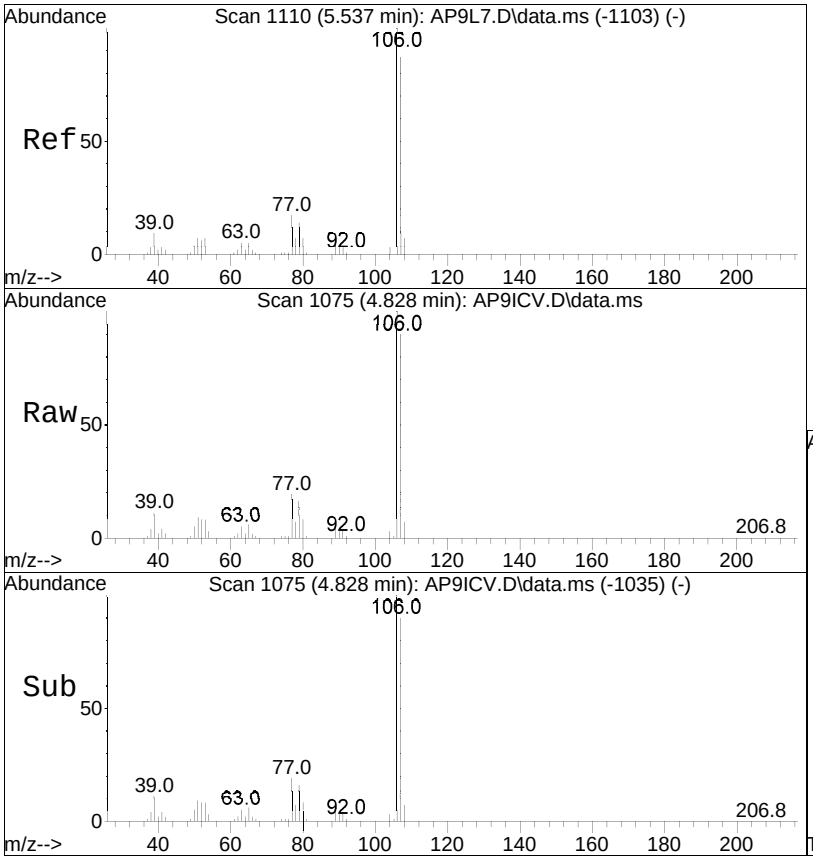


#29
Acetophenone
Concen: 48.48 ug/ml
RT: 4.744 min Scan# 1048
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 4 Oct 2018 6:34 am

Tgt Ion:105 Resp: 432435

Ion	Ratio	Lower	Upper
105	100		
120	18.8	15.9	23.9
51	33.0	25.2	37.8

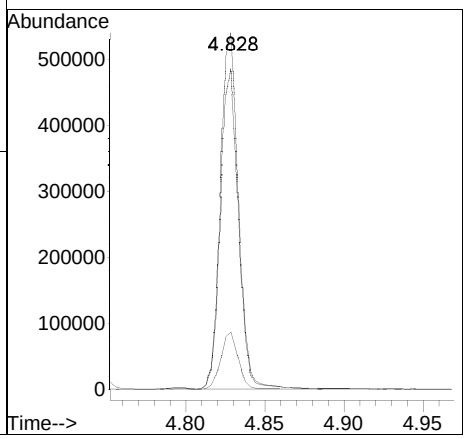


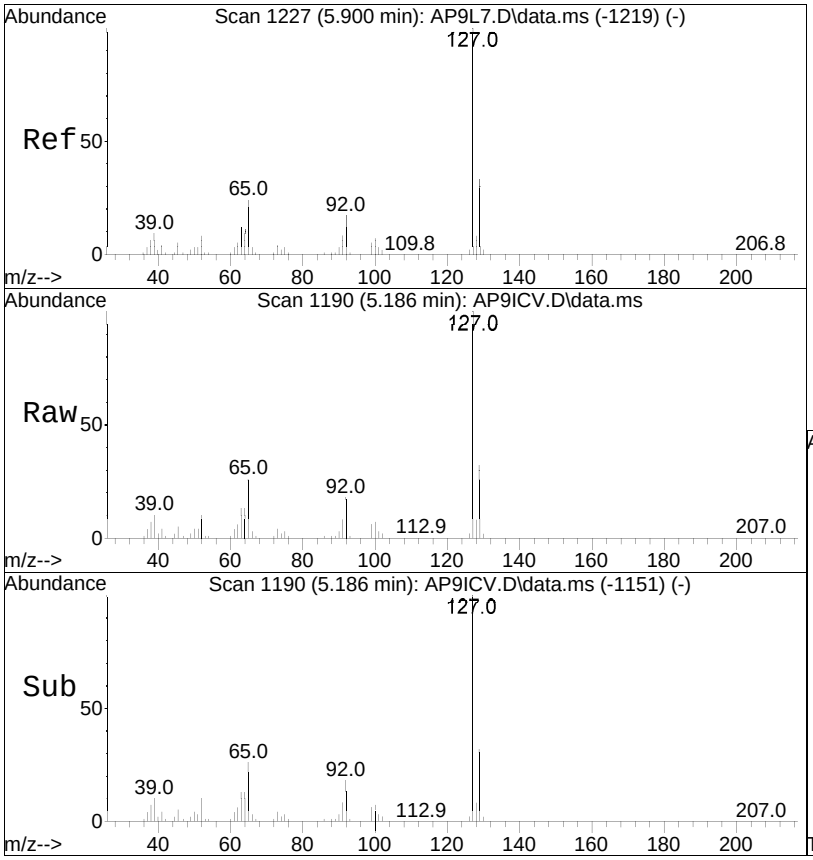


#30
m-Toluidine
Concen: 49.04 ug/ml
RT: 4.828 min Scan# 1075
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 4 Oct 2018 6:34 am

Tgt Ion:106 Resp: 429969

Ion	Ratio	Lower	Upper
106	100		
107	89.2	71.8	107.6
79	15.7	12.0	18.0

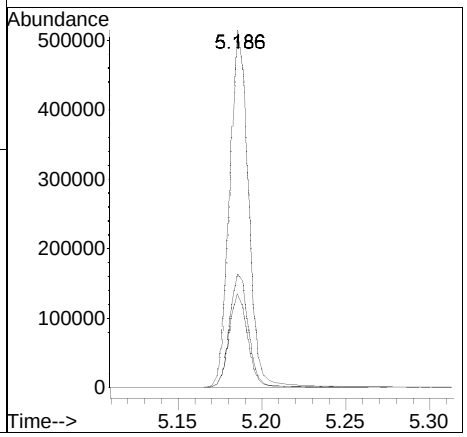


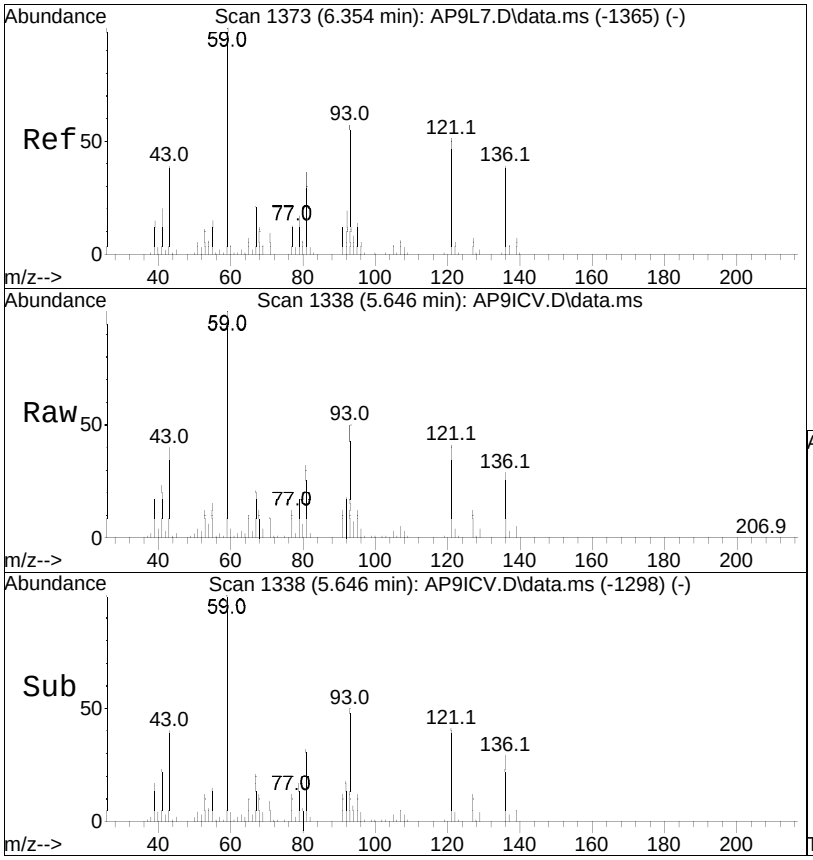


#31
2-Chloroaniline
Concen: 48.58 ug/ml
RT: 5.186 min Scan# 1190
Delta R.T. -0.003 min
Lab File: AP9ICV.D
Acq: 4 Oct 2018 6:34 am

Tgt Ion:127 Resp: 400525

Ion	Ratio	Lower	Upper
127	100		
129	31.9	25.4	38.0
65	26.3	19.4	29.2

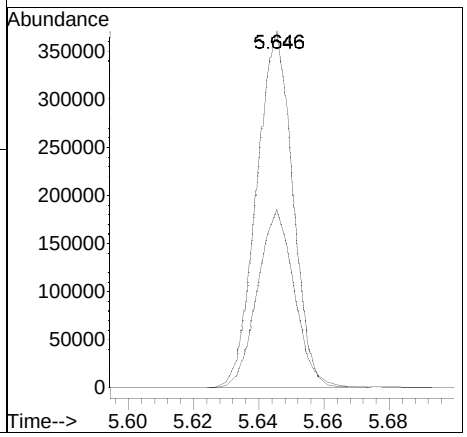


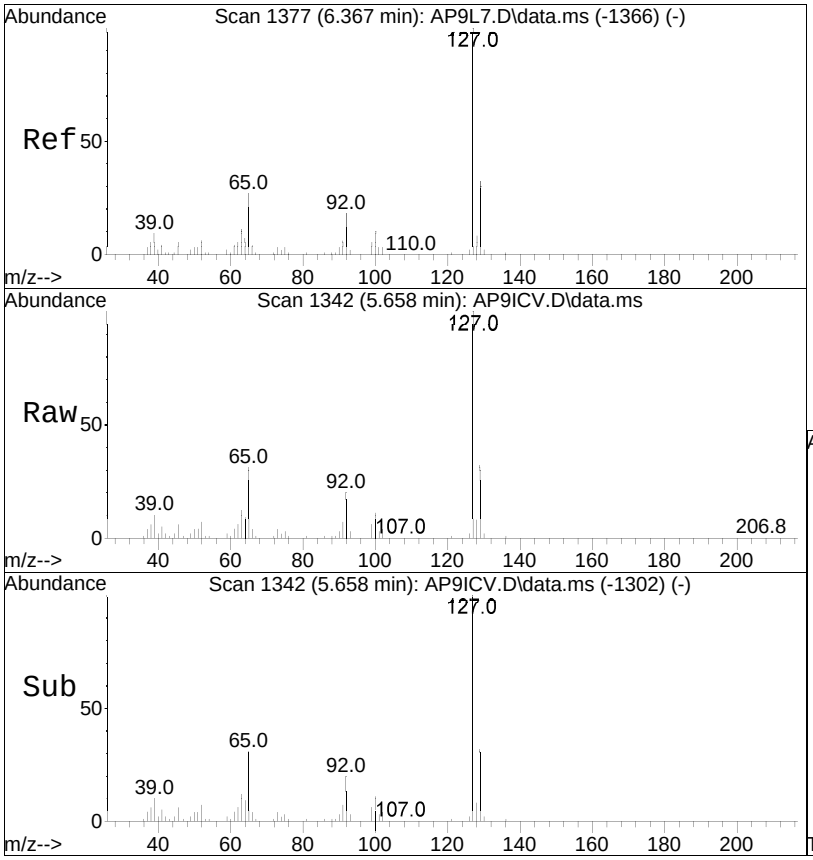


#55
a-Terpineol
Concen: 49.27 ug/ml
RT: 5.646 min Scan# 1338
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 4 Oct 2018 6:34 am

Tgt Ion: 59 Resp: 284590

Ion	Ratio	Lower	Upper
59	100		
93	51.7	38.3	57.5

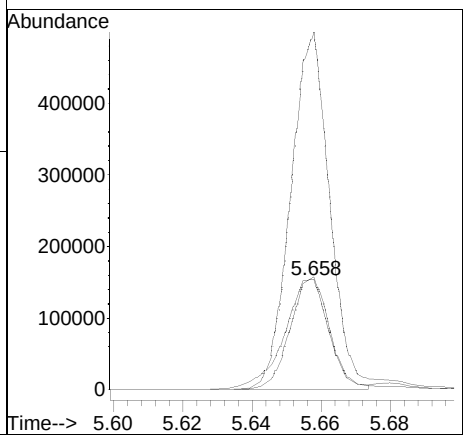


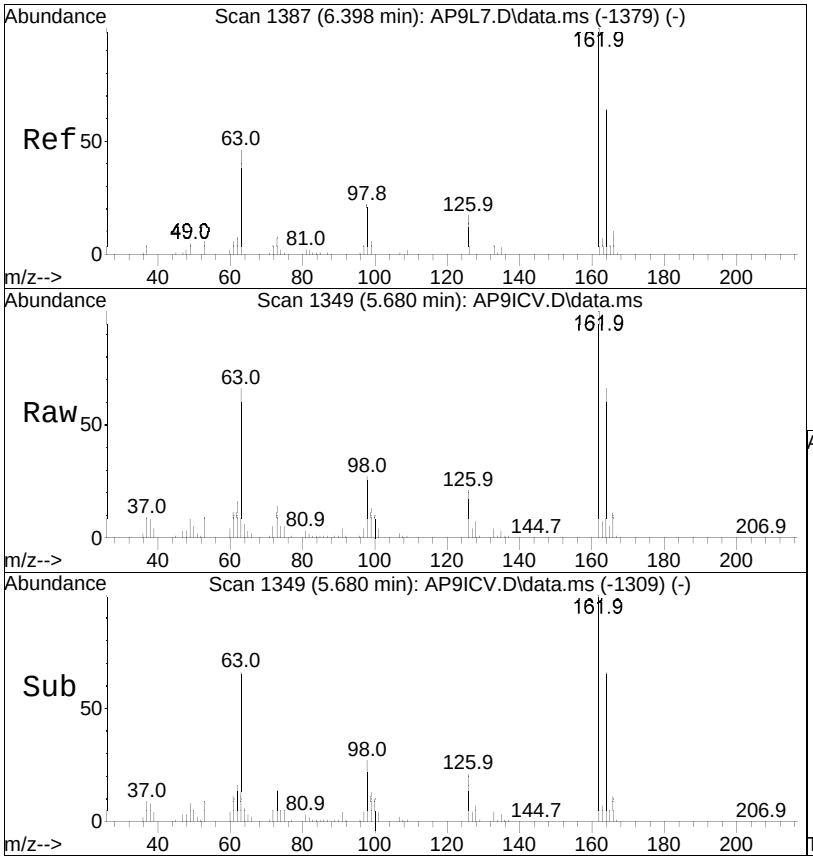


#56
3-Chloroaniline
Concen: 49.19 ug/ml
RT: 5.658 min Scan# 1342
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 4 Oct 2018 6:34 am

Tgt Ion: 65 Resp: 136868

Ion	Ratio	Lower	Upper
65	100		
127	290.5	246.5	369.7
129	93.4	80.3	120.5

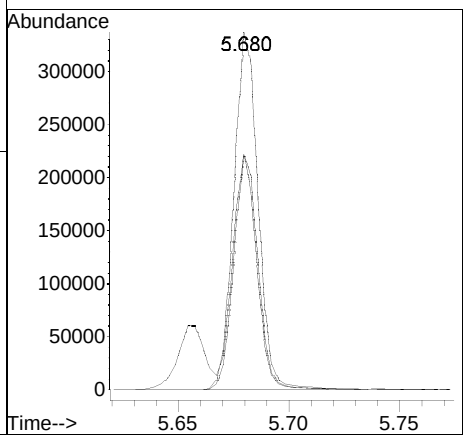


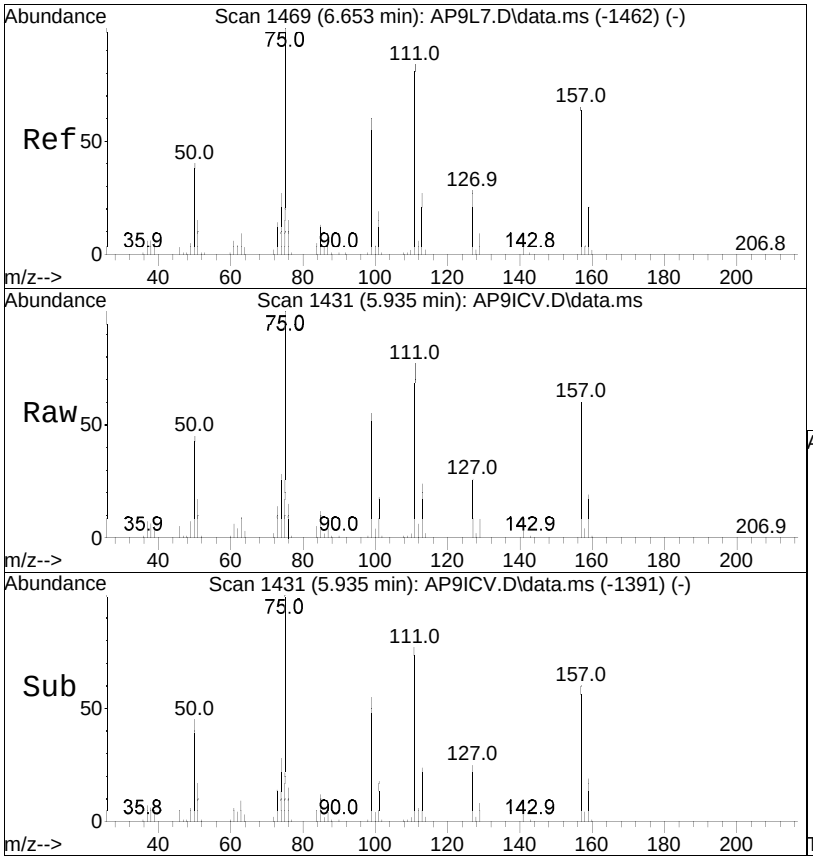


#57
2,6-Dichlorophenol
Concen: 49.47 ug/ml
RT: 5.680 min Scan# 1349
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 4 Oct 2018 6:34 am

Tgt Ion:162 Resp: 255378

Ion	Ratio	Lower	Upper
162	100		
164	65.8	51.7	77.5
63	64.1	49.5	74.3

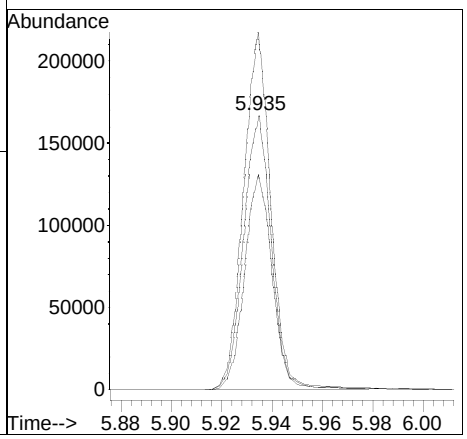


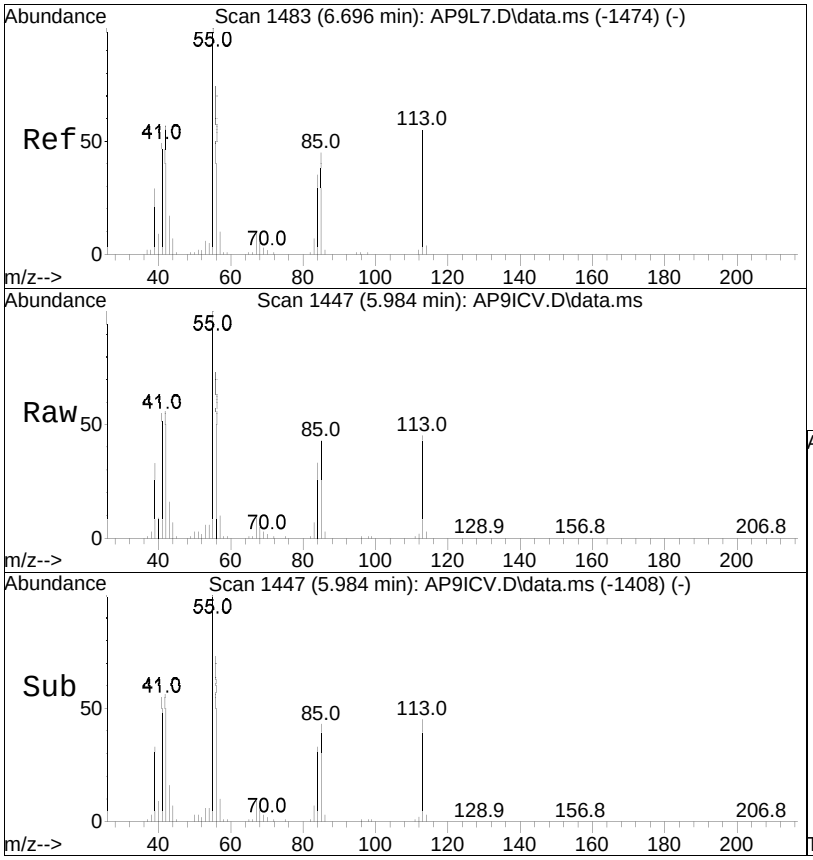


#58
1-chloro-2-nitrobenzene
Concen: 49.44 ug/ml
RT: 5.935 min Scan# 1431
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 4 Oct 2018 6:34 am

Tgt Ion:111 Resp: 127627

Ion	Ratio	Lower	Upper
111	100		
157	78.1	61.1	91.7
75	129.4	96.3	144.5

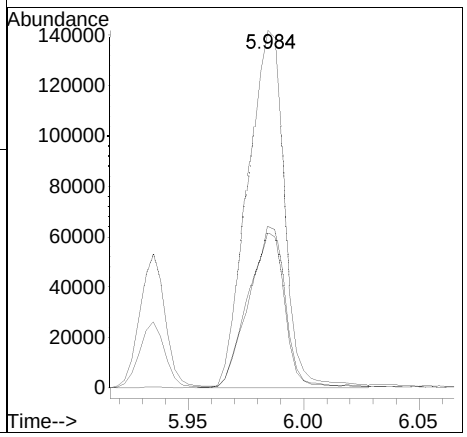


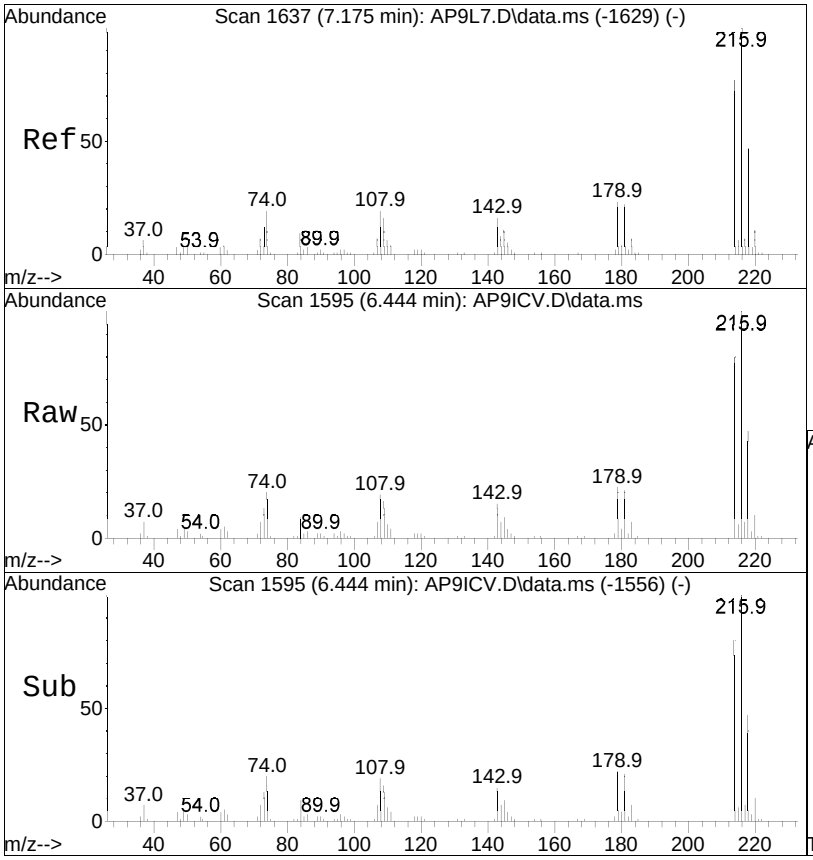


#59
Caprolactam
Concen: 50.43 ug/ml
RT: 5.984 min Scan# 1447
Delta R.T. -0.003 min
Lab File: AP9ICV.D
Acq: 4 Oct 2018 6:34 am

Tgt Ion: 55 Resp: 157597

Ion	Ratio	Lower	Upper
55	100		
85	42.1	30.9	46.3
113	44.1	34.7	52.1

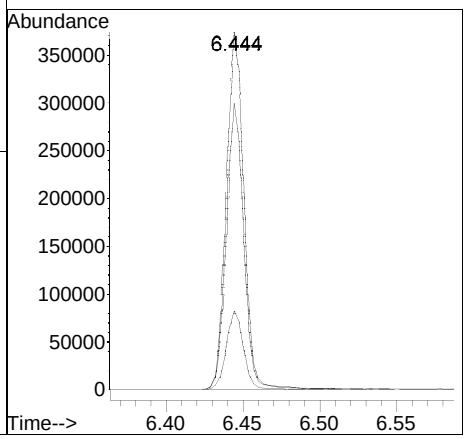


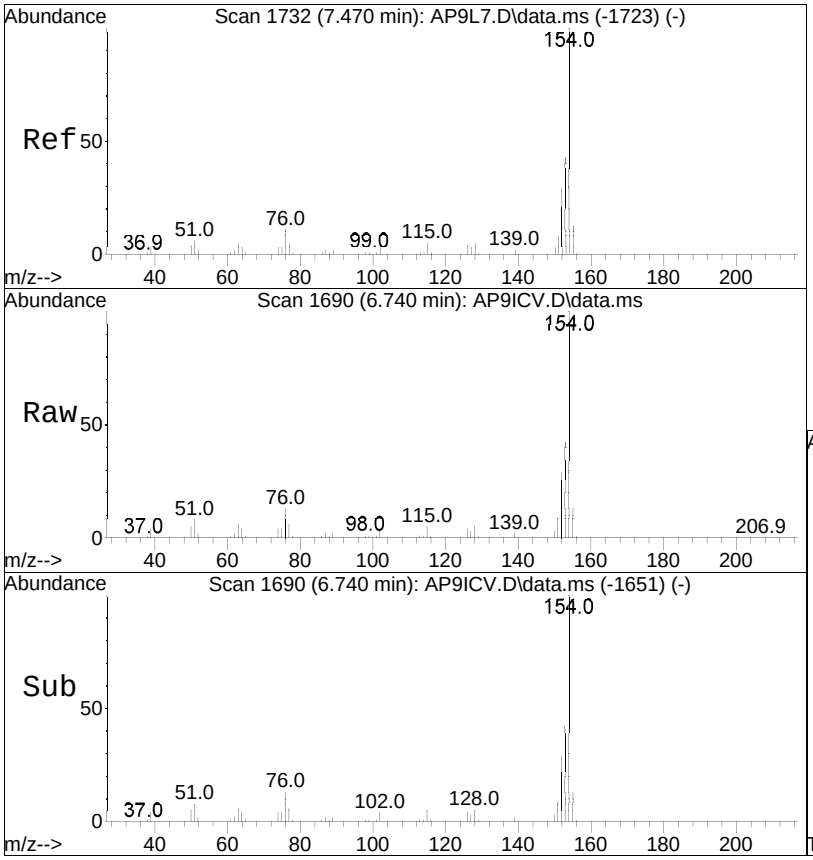


#60
1,2,4,5-Tetrachlorobenzene
Concen: 48.07 ug/ml
RT: 6.444 min Scan# 1595
Delta R.T. -0.003 min
Lab File: AP9ICV.D
Acq: 4 Oct 2018 6:34 am

Tgt Ion:216 Resp: 293433

Ion	Ratio	Lower	Upper
216	100		
214	78.9	62.2	93.4
179	21.6	17.4	26.2

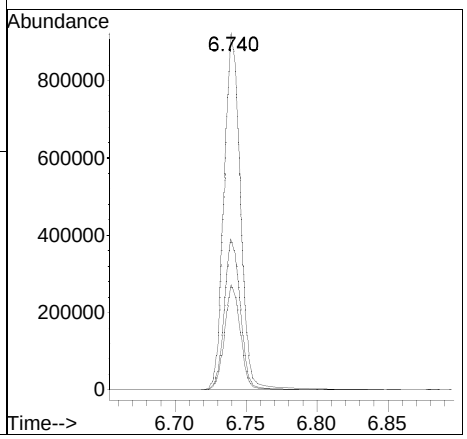


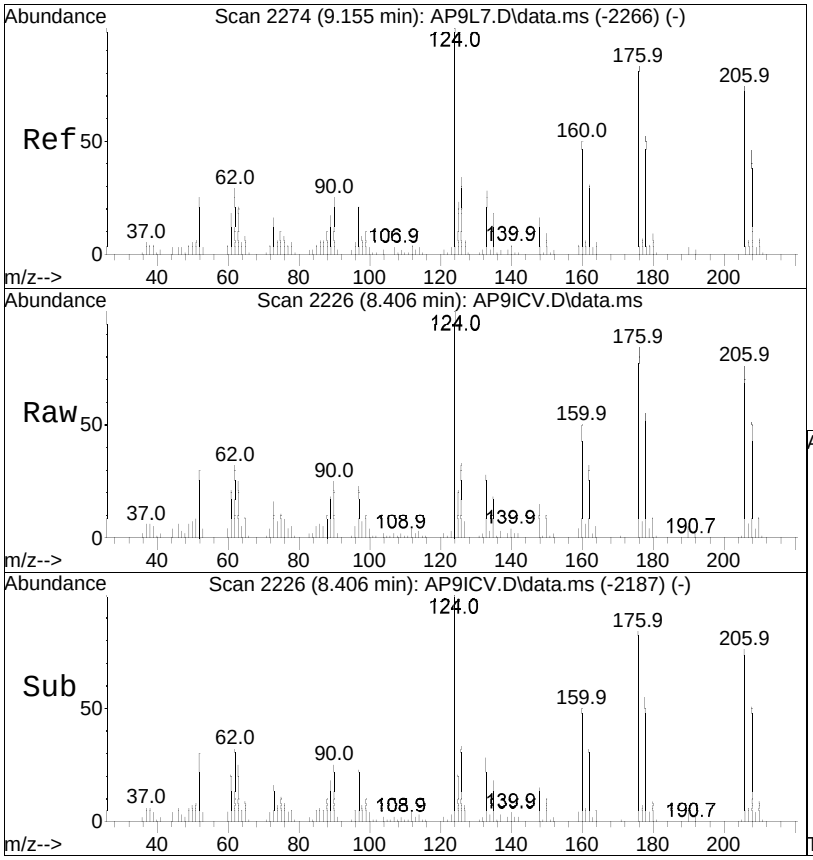


#61
Biphenyl
Concen: 48.36 ug/ml
RT: 6.740 min Scan# 1690
Delta R.T. -0.003 min
Lab File: AP9ICV.D
Acq: 4 Oct 2018 6:34 am

Tgt Ion:154 Resp: 739843

Ion	Ratio	Lower	Upper
154	100		
153	41.5	33.4	50.0
152	29.1	23.0	34.6

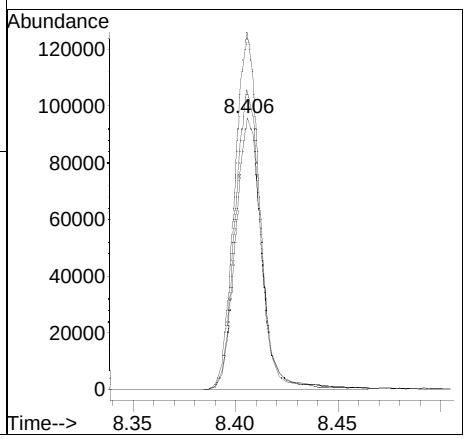


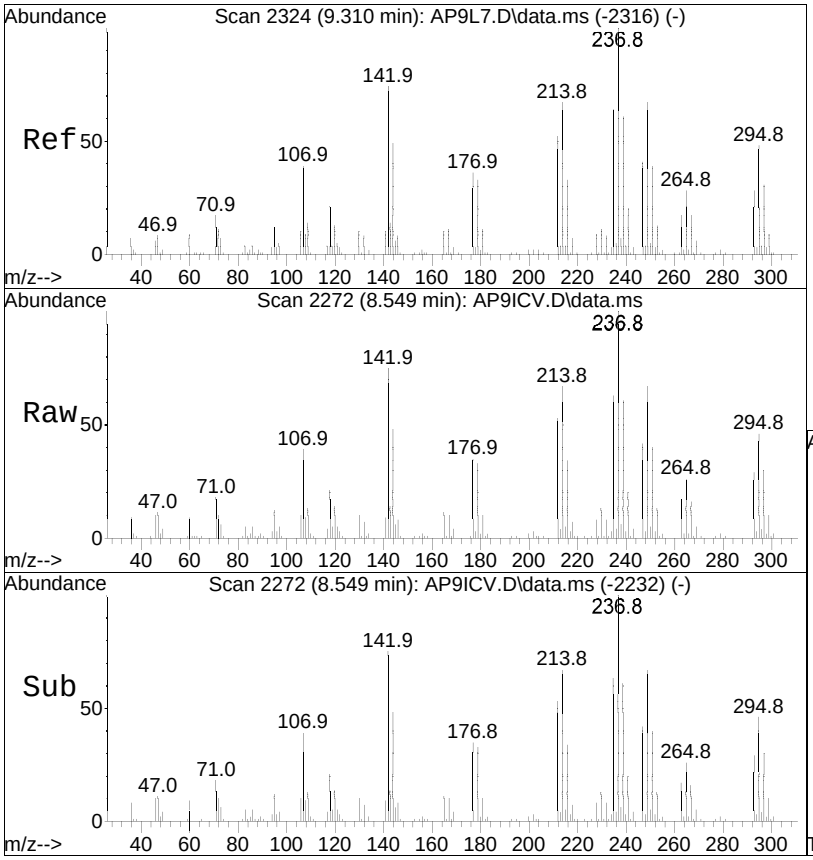


#83
Dichloran
Concen: 49.11 ug/ml
RT: 8.406 min Scan# 2226
Delta R.T. -0.003 min
Lab File: AP9ICV.D
Acq: 4 Oct 2018 6:34 am

Tgt Ion:206 Resp: 83660

Ion	Ratio	Lower	Upper
206	100		
176	110.7	94.8	142.2
124	129.1	107.9	161.9

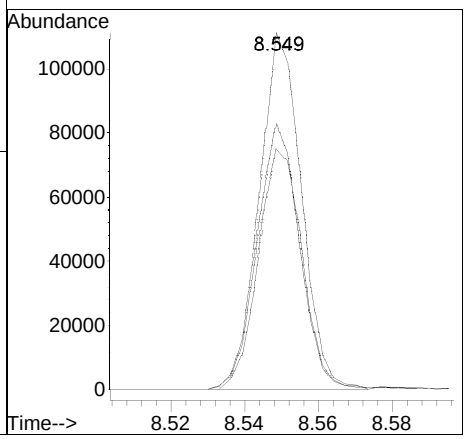


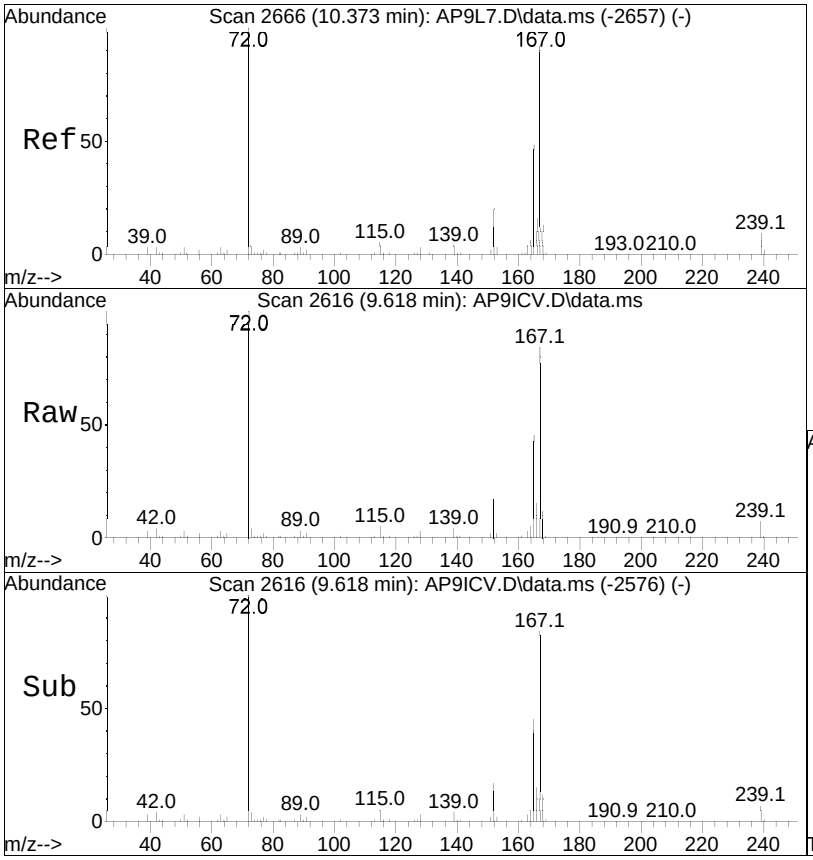


#84
Pentachloronitrobenzene
Concen: 47.64 ug/ml
RT: 8.549 min Scan# 2272
Delta R.T. 0.001 min
Lab File: AP9ICV.D
Acq: 4 Oct 2018 6:34 am

Tgt Ion:237 Resp: 87960

Ion	Ratio	Lower	Upper
237	100		
142	75.7	59.4	89.2
214	70.6	56.5	84.7

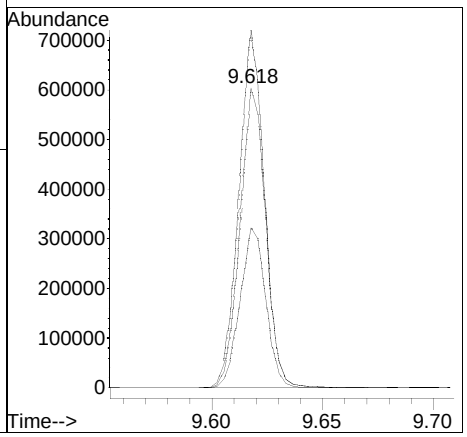




#98
Diphenamid
Concen: 50.06 ug/ml
RT: 9.618 min Scan# 2616
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 4 Oct 2018 6:34 am

Tgt Ion:167 Resp: 484294

Ion	Ratio	Lower	Upper
167	100		
72	118.5	94.5	141.7
165	54.4	37.9	56.9



Manual Integration Report

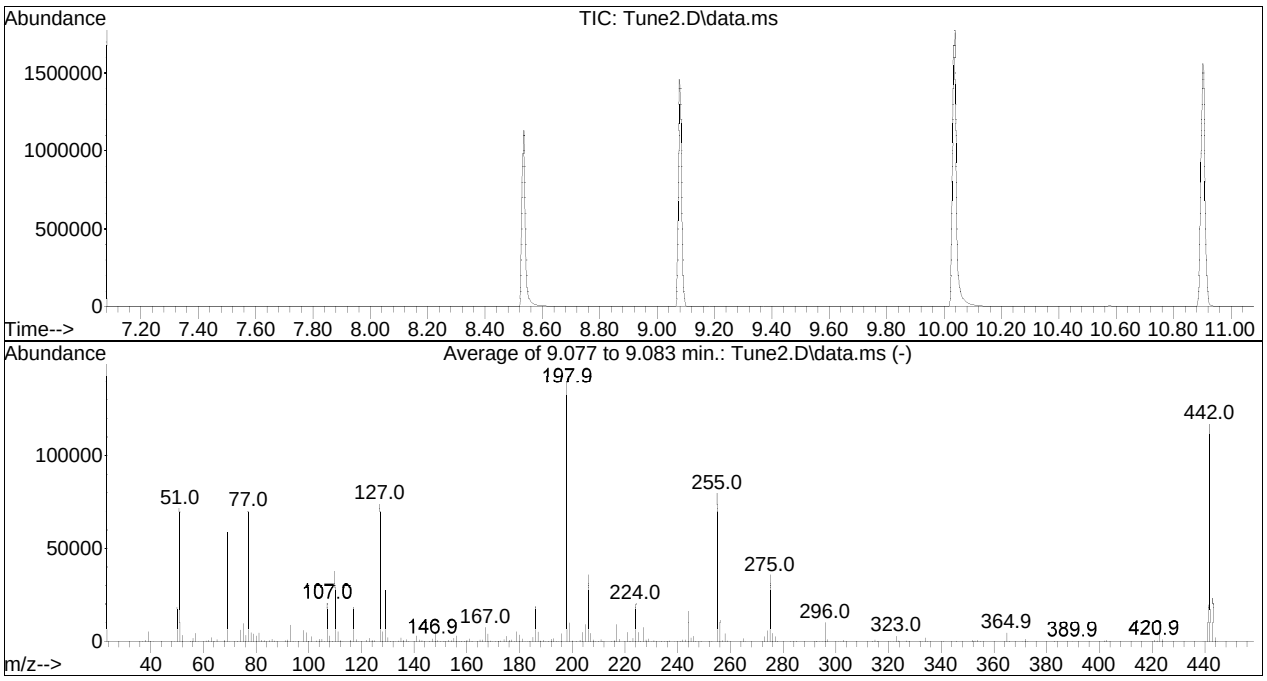
Data Path	: I:\8270\SV109\181003nical\	QMethod	: FS1801003nSV109.m
Data File	: AP9ICV.D	Operator	: sv109:cb
Date Inj'd	: 10/4/2018 6:34 am	Instrument	: SV109
Sample	: CQICV2,32,,AP9ICV Lot# 759	Quant Date	: 10/4/2018 9:49 am

There are no manual integrations or false positives in this file.

Data Path : I:\8270\SV109\181003nical\
Data File : Tune2.D
Acq On : 4 Oct 2018 6:59 am
Operator : sv109:cb
Sample : Tune2
Misc : WG1164344,,
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Thu Oct 04 16:06:44 2018



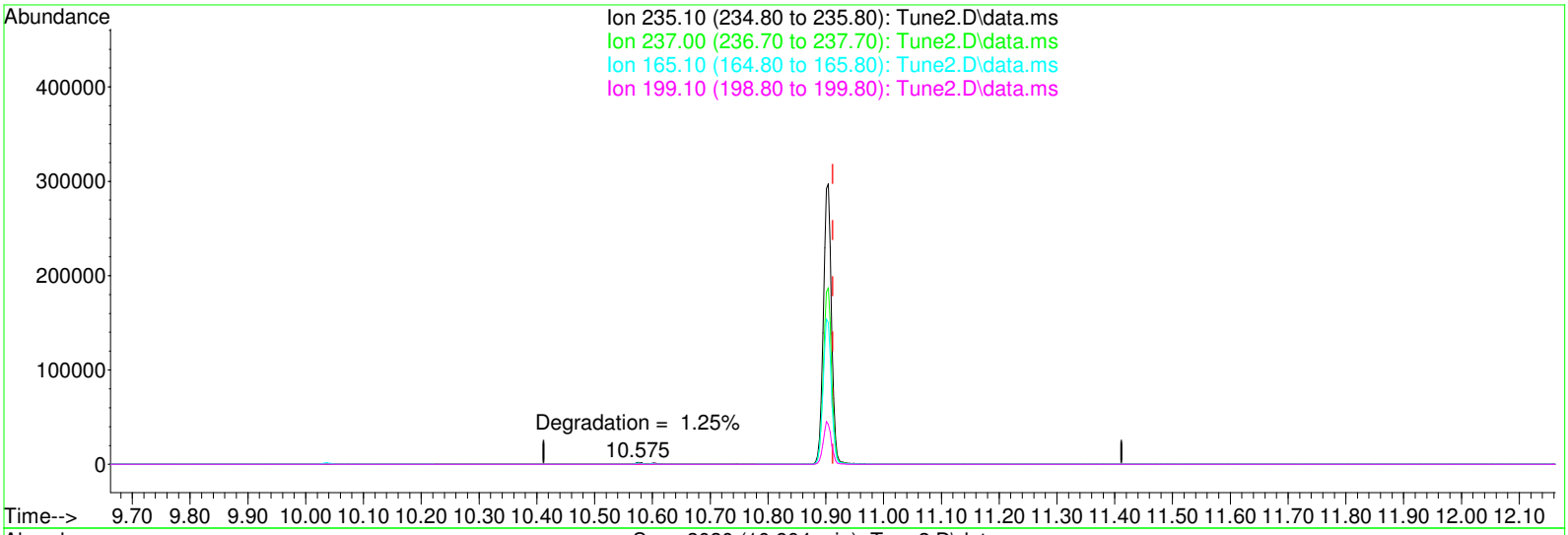
Spectrum Information: Average of 9.077 to 9.083 min.

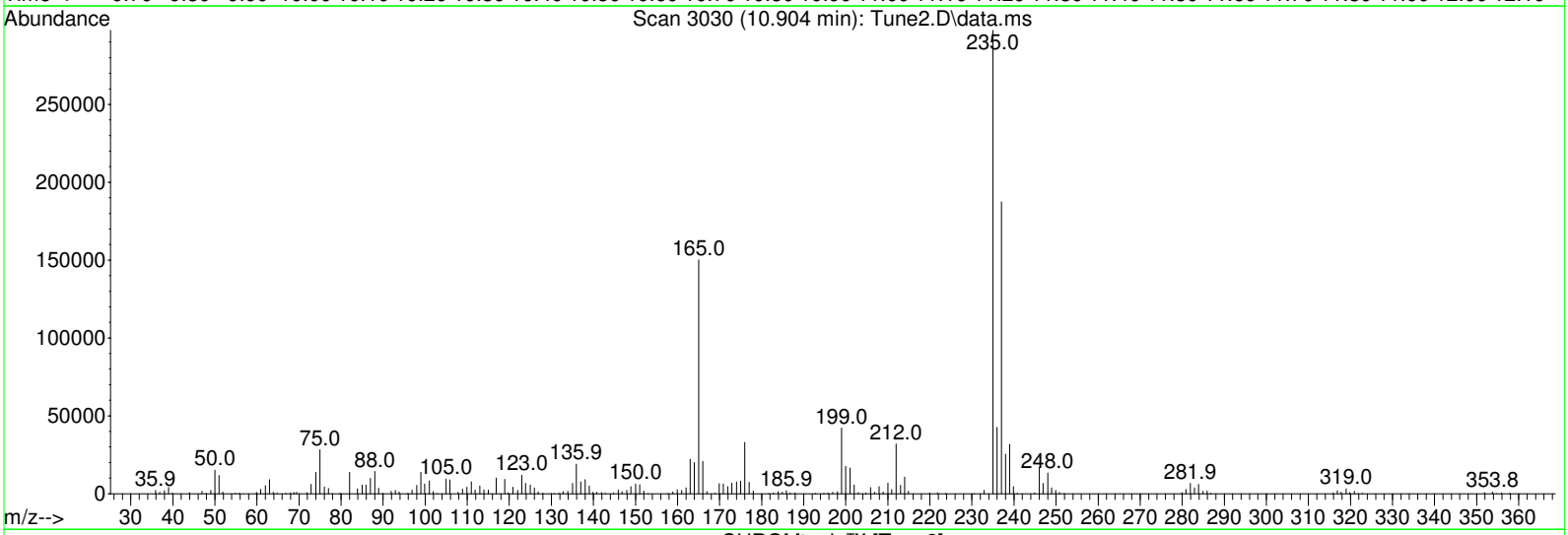
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	50.4	71531	PASS
68	69	0.00	2	1.7	984	PASS
70	69	0.00	2	0.5	306	PASS
127	198	10	80	52.0	73827	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	141971	PASS
199	198	5	9	6.9	9765	PASS
275	198	10	60	25.0	35539	PASS
365	198	1	100	3.3	4694	PASS
441	442	0.01	24	16.8	19629	PASS
442	198	50	100	82.3	116856	PASS
443	442	15	24	19.5	22733	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV109\181003nical\
Data File : Tune2.D
Acq On : 4 Oct 2018 6:59 am
Operator : sv109:
Sample : Tune2
Misc :
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Oct 04 16:44:33 2018
Quant Method : I:\8270\SV109\181003nical\dftppsv109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Oct 02 23:11:56 2018
Response via : Initial Calibration





CHROMtools™ [Tune2]

(6) ddt (T)

10.904min (-0.008) 47.69

response 290732

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	62.30	63.93
165.10	48.60	52.56

Duplicate Retention Times

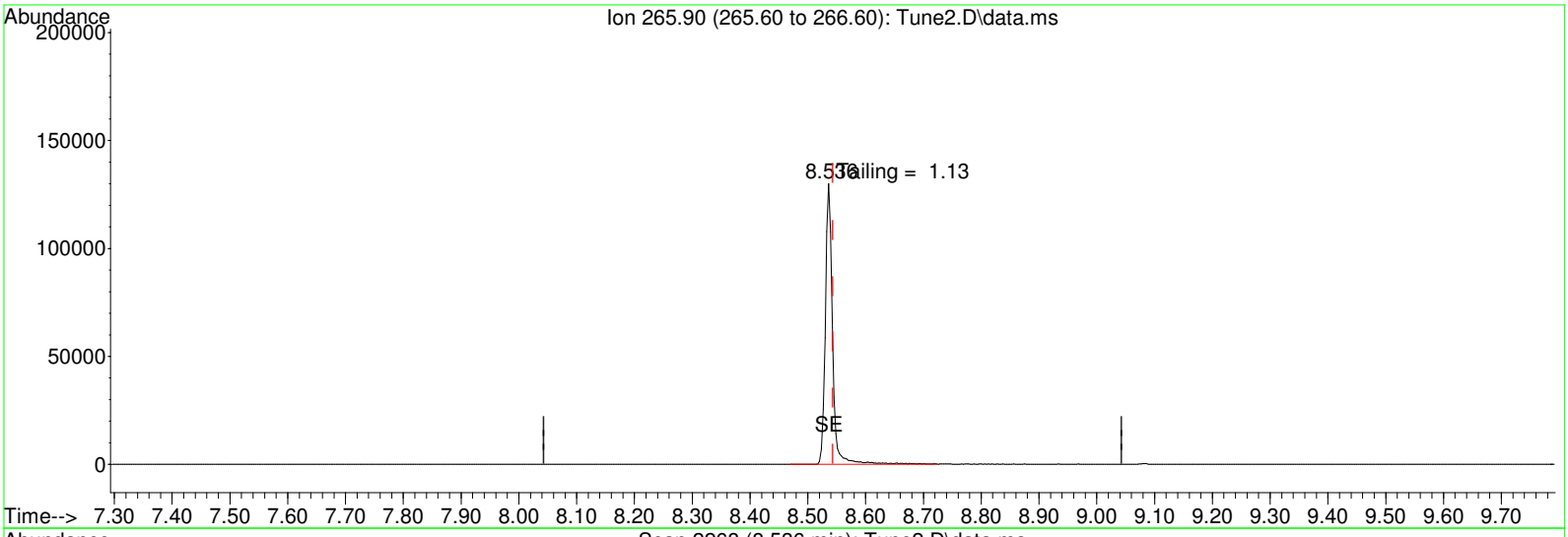
(4) DDE 246.00

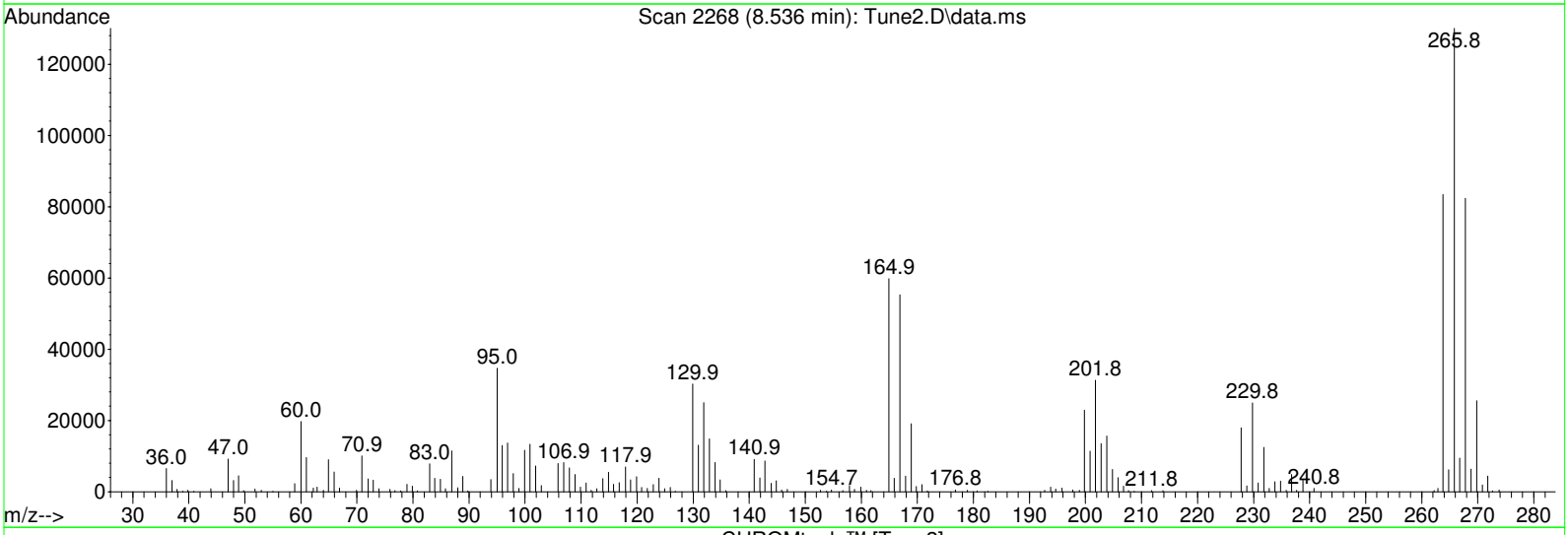
(5) DDD 235.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV109\181003nical\
Data File : Tune2.D
Acq On : 4 Oct 2018 6:59 am
Operator : sv109:
Sample : Tune2
Misc :
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Oct 04 16:44:33 2018
Quant Method : I:\8270\SV109\181003nical\dftppsv109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Oct 02 23:11:56 2018
Response via : Initial Calibration





CHROMtools™ [Tune2]

(1) pentachlorophenol (T)

8.536min (-0.007) 51.97

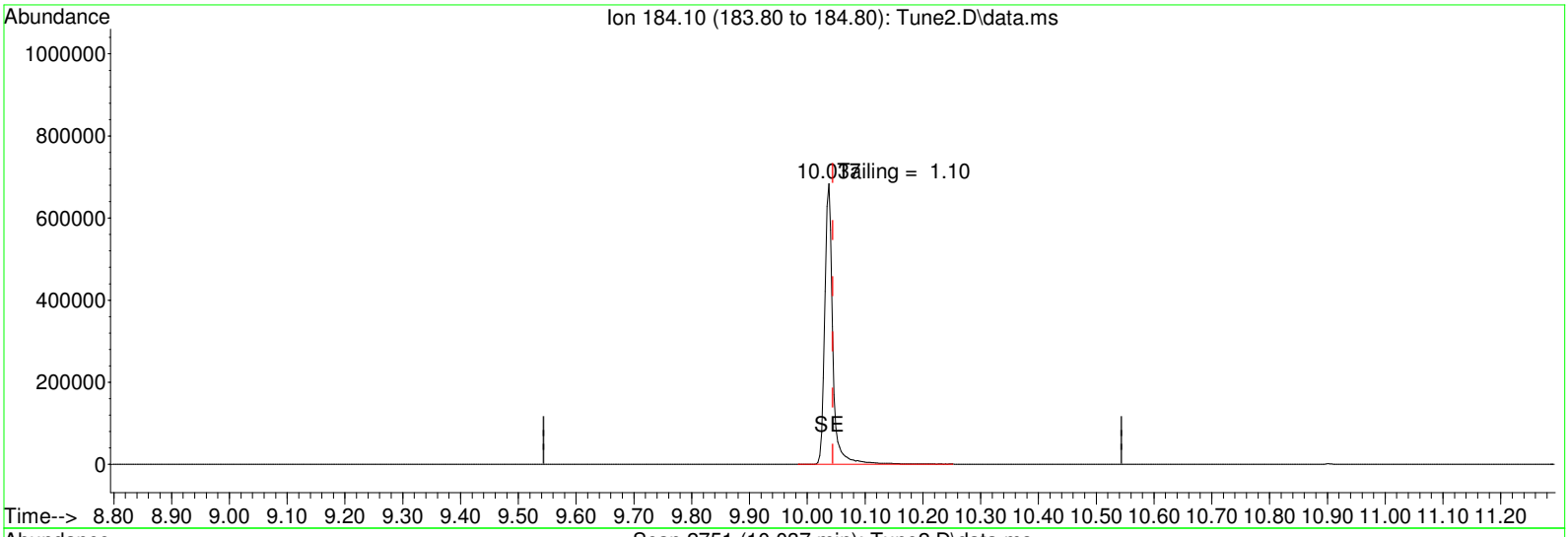
response 109147

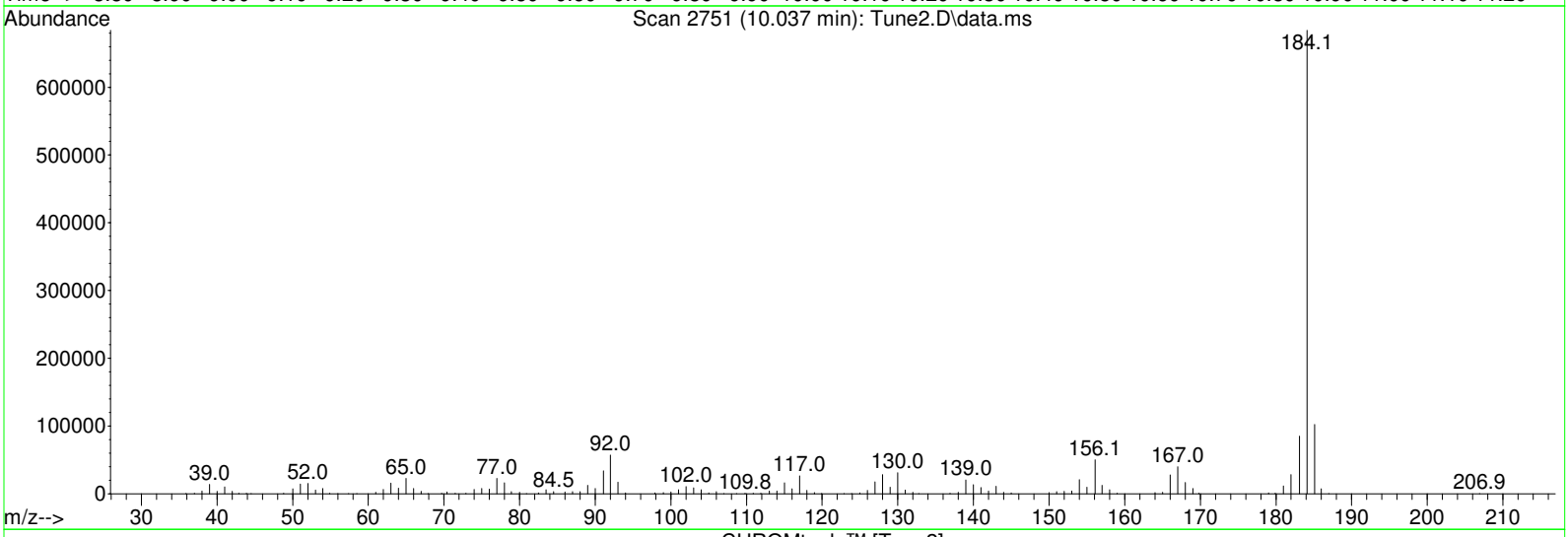
Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV109\181003nical\
Data File : Tune2.D
Acq On : 4 Oct 2018 6:59 am
Operator : sv109:
Sample : Tune2
Misc :
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Oct 04 16:44:33 2018
Quant Method : I:\8270\SV109\181003nical\dftppsv109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Oct 02 23:11:56 2018
Response via : Initial Calibration





CHROMtools™ [Tune2]

(3) benzidine (T)

10.037min (-0.007) 64.93

response 660953

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : ADPL10.D
Acq On : 4 Oct 2018 7:24 am
Operator : sv109:cb
Sample : IL21,32,,ADPL200 Lot# 7596
Misc : WG1164344,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Oct 04 09:52:29 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 09:48:56 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\181003nical\ADP L7.D
Sub List : ADPical - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.334	152	187173	40.000	ug/ml	0.00
Standard Area 1 = 177921			Recovery = 105.20%			
85) IS3_Acenaphthene-d10	7.274	164	392880	40.000	ug/ml	0.00
Standard Area 1 = 361321			Recovery = 108.73%			
99) IS3_Phenanthrene-d10	8.701	188	853924	40.000	ug/ml	0.00
Standard Area 1 = 771595			Recovery = 110.67%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	4.234	57	1576473	204.837	ug/ml	97
86) Atrazine	8.508	200	821163	211.209	ug/ml	98
100) n-Octadecane	8.710	57	2313661	196.618	ug/ml	96
101) Parathion	9.506	109	694397	216.100	ug/ml#	94
102) 3,3'-Dimethylbenzidine	10.796	212	3482705	210.277	ug/ml	99

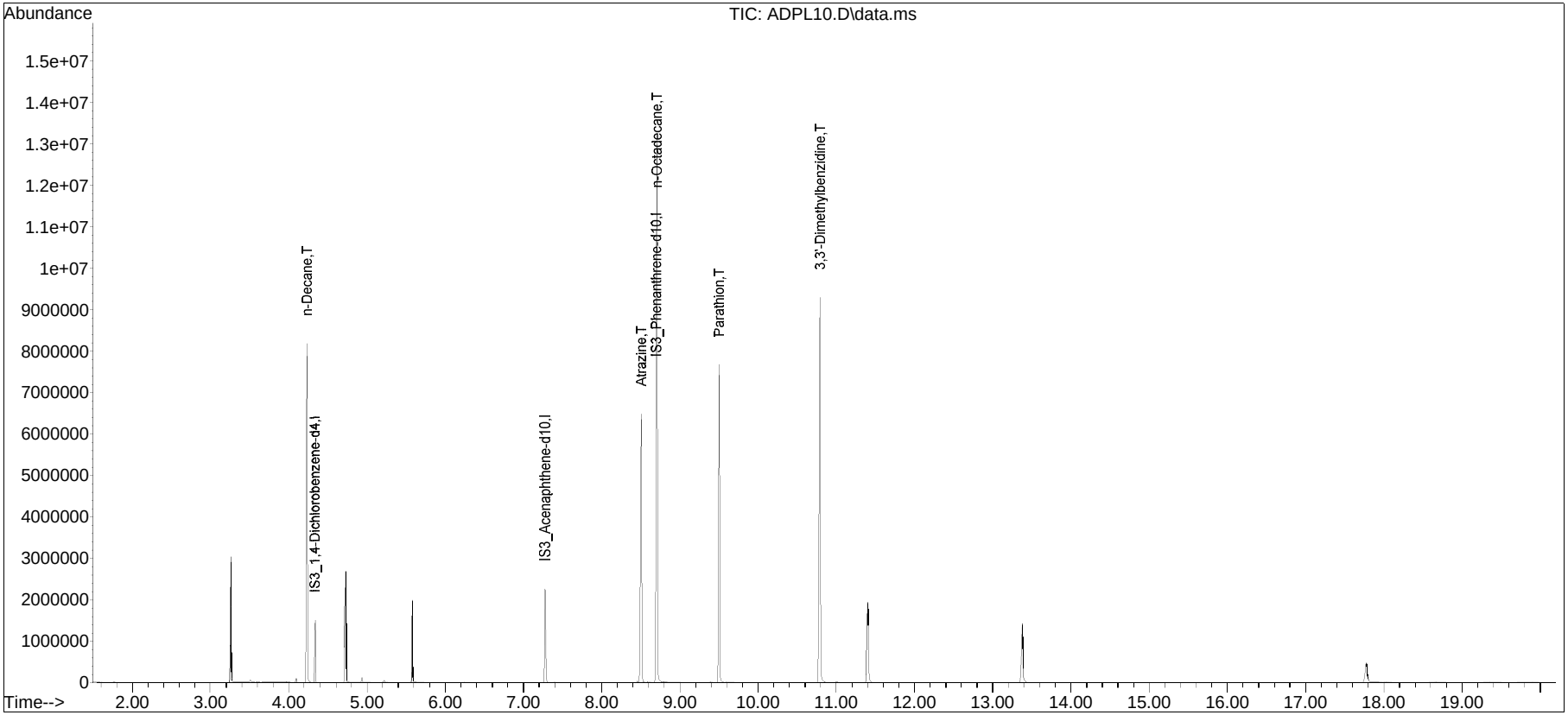
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : ADPL10.D
Acq On : 4 Oct 2018 7:24 am
Operator : sv109:cb
Sample : IL21,32,,ADPL200 Lot# 7596
Misc : WG1164344,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Oct 04 09:52:29 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 09:48:56 2018
Response via : Initial Calibration

Sub List : ADPical - ADP sublist003nical\ADP L7.D•



Manual Integration Report

Data Path	: I:\8270\SV109\181003nical\	QMethod	: FS1801003nSV109.m
Data File	: ADPL10.D	Operator	: sv109:cb
Date Inj'd	: 10/4/2018 7:24 am	Instrument	: SV109
Sample	: IL21,32,,ADPL200 Lot# 7596	Quant Date	: 10/4/2018 9:51 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : ADPL9.D
Acq On : 4 Oct 2018 7:50 am
Operator : sv109:cb
Sample : IL22,32,,ADPL150 Lot# 7605
Misc : WG1164344,,
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Oct 04 09:53:02 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 09:48:56 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\181003nical\ADP L7.D
Sub List : ADPical - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.334	152	179925	40.000	ug/ml	0.00
Standard Area 1 = 177921			Recovery = 101.13%			
85) IS3_Acenaphthene-d10	7.274	164	361904	40.000	ug/ml	0.00
Standard Area 1 = 361321			Recovery = 100.16%			
99) IS3_Phenanthrene-d10	8.701	188	778136	40.000	ug/ml	0.00
Standard Area 1 = 771595			Recovery = 100.85%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	4.234	57	1127152	152.355	ug/ml	97
86) Atrazine	8.502	200	549557	153.448	ug/ml	98
100) n-Octadecane	8.707	57	1599989	149.212	ug/ml	95
101) Parathion	9.506	109	460992	157.436	ug/ml#	94
102) 3,3'-Dimethylbenzidine	10.793	212	2370405	157.059	ug/ml	99

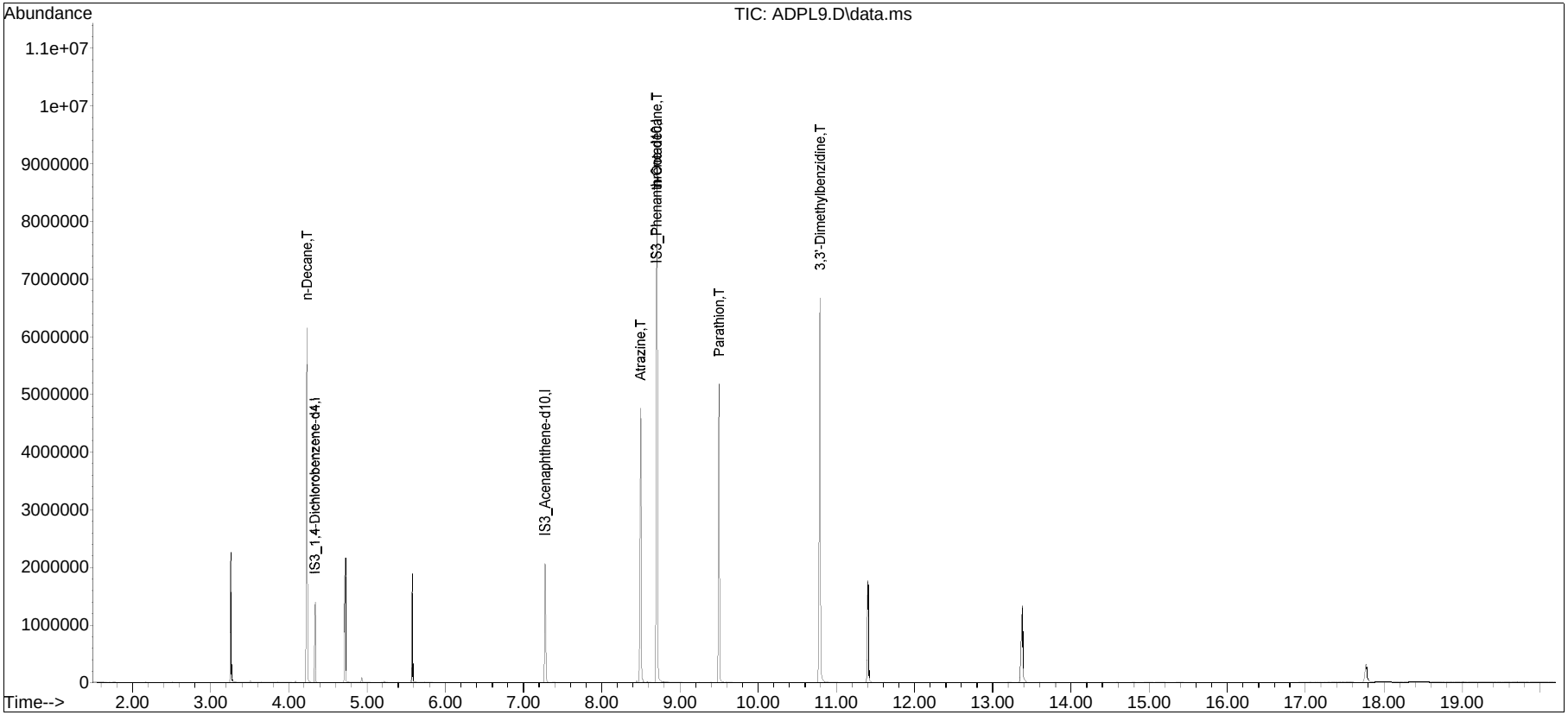
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : ADPL9.D
Acq On : 4 Oct 2018 7:50 am
Operator : sv109:cb
Sample : IL22,32,,ADPL150 Lot# 7605
Misc : WG1164344,,
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Oct 04 09:53:02 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 09:48:56 2018
Response via : Initial Calibration

Sub List : ADPical - ADP sublist003nical\ADP L7.D•



Manual Integration Report

Data Path	: I:\8270\SV109\181003nical\	QMethod	: FS1801003nSV109.m
Data File	: ADPL9.D	Operator	: sv109:cb
Date Inj'd	: 10/4/2018 7:50 am	Instrument	: SV109
Sample	: IL22,32,,ADPL150 Lot# 7605	Quant Date	: 10/4/2018 9:51 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : ADPL8.D
Acq On : 4 Oct 2018 8:15 am
Operator : sv109:cb
Sample : IL23,32,,ADPL100 Lot# 7604
Misc : WG1164344,,
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Oct 04 09:53:36 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 09:48:56 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\181003nical\ADP L7.D
Sub List : ADPical - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.334	152	181738	40.000	ug/ml	0.00
Standard Area 1 = 177921			Recovery = 102.15%			
85) IS3_Acenaphthene-d10	7.277	164	358047	40.000	ug/ml	0.00
Standard Area 1 = 361321			Recovery = 99.09%			
99) IS3_Phenanthrene-d10	8.701	188	762063	40.000	ug/ml	0.00
Standard Area 1 = 771595			Recovery = 98.76%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	4.234	57	747275	100.000	ug/ml	96
86) Atrazine	8.502	200	354321	100.000	ug/ml	98
100) n-Octadecane	8.707	57	1050573	100.041	ug/ml	95
101) Parathion	9.506	109	286882	100.041	ug/ml	94
102) 3,3'-Dimethylbenzidine	10.789	212	1476335	99.882	ug/ml	99

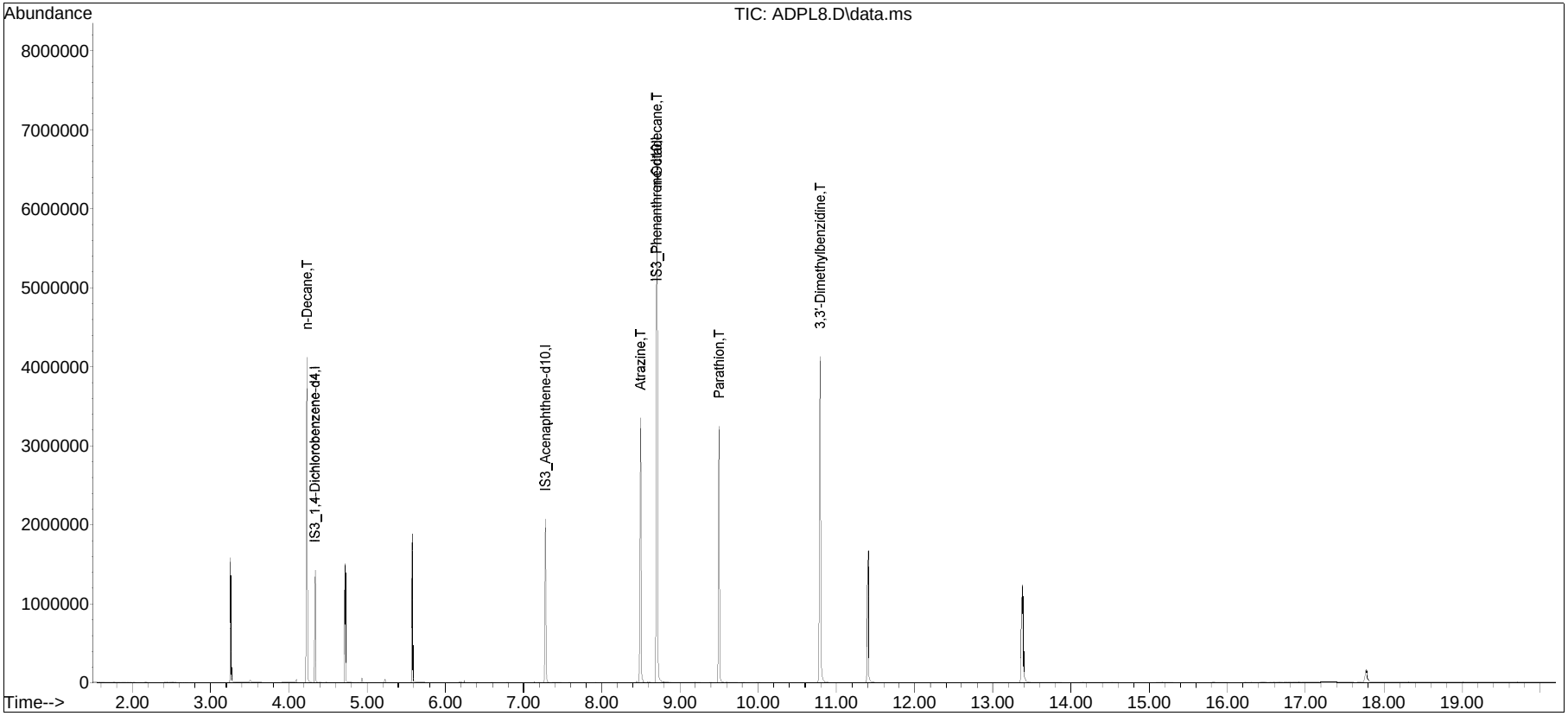
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : ADPL8.D
Acq On : 4 Oct 2018 8:15 am
Operator : sv109:cb
Sample : IL23,32,,ADPL100 Lot# 7604
Misc : WG1164344,,
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Oct 04 09:53:36 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 09:48:56 2018
Response via : Initial Calibration

Sub List : ADPical - ADP sublist003nical\ADP L7.D•



Manual Integration Report

Data Path	: I:\8270\SV109\181003nical\	QMethod	: FS1801003nSV109.m
Data File	: ADPL8.D	Operator	: sv109:cb
Date Inj'd	: 10/4/2018 8:15 am	Instrument	: SV109
Sample	: IL23,32,,ADPL100 Lot# 7604	Quant Date	: 10/4/2018 9:51 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : ADPL7.D
Acq On : 4 Oct 2018 8:40 am
Operator : sv109:cb
Sample : IL24,32,,ADPL50 Lot# 7603
Misc : WG1164344,,
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Oct 04 09:54:02 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 09:48:56 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\181003nical\ADP L7.D
Sub List : ADPical - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.334	152	177921	40.000	ug/ml	0.00
Standard Area 1 = 177921			Recovery = 100.00%			
85) IS3_Acenaphthene-d10	7.274	164	361321	40.000	ug/ml	0.00
Standard Area 1 = 361321			Recovery = 100.00%			
99) IS3_Phenanthrene-d10	8.698	188	771595	40.000	ug/ml	0.00
Standard Area 1 = 771595			Recovery = 100.00%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	4.234	57	356783	48.769	ug/ml	96
86) Atrazine	8.496	200	173695	48.578	ug/ml	98
100) n-Octadecane	8.704	57	509119	47.882	ug/ml	93
101) Parathion	9.500	109	134345	46.270	ug/ml	96
102) 3,3'-Dimethylbenzidine	10.783	212	726746	48.561	ug/ml	99

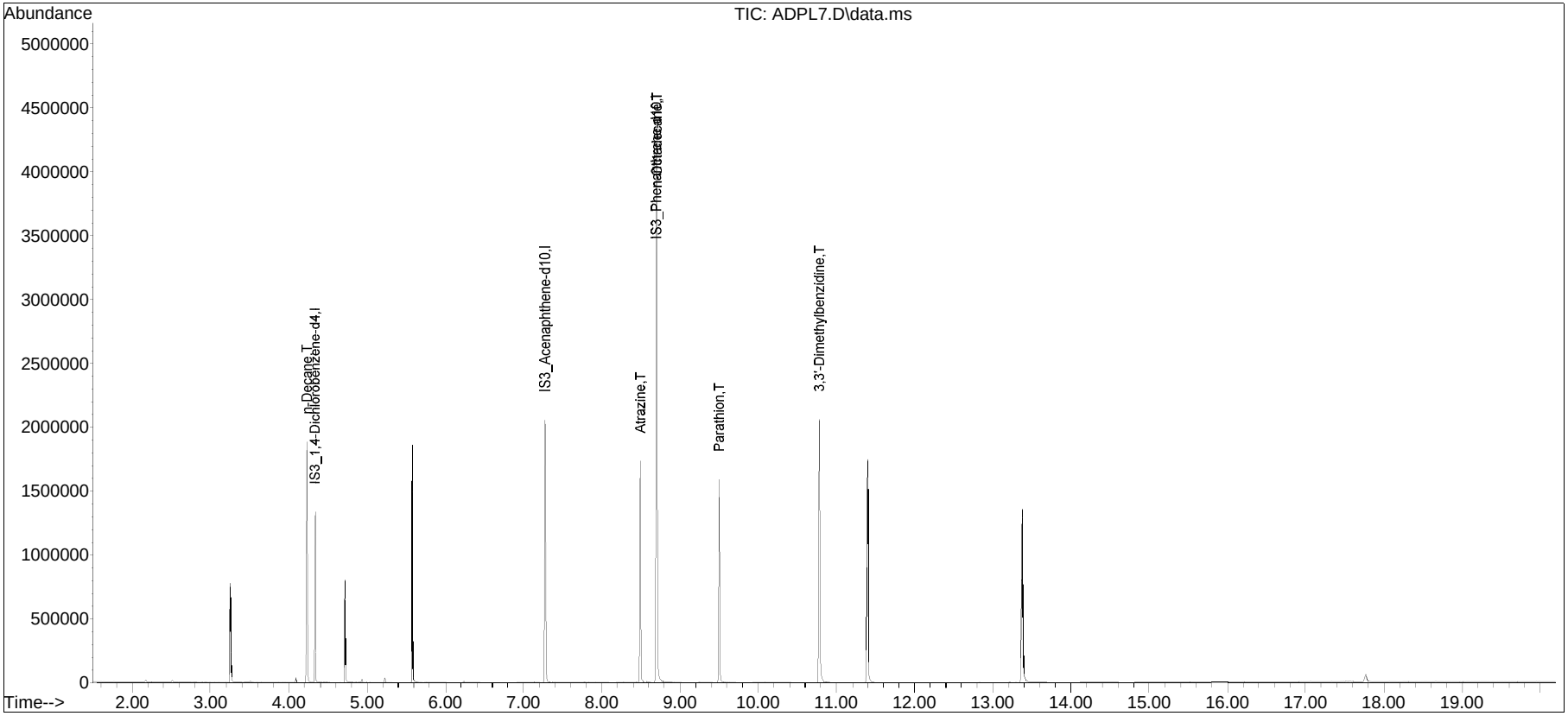
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : ADPL7.D
Acq On : 4 Oct 2018 8:40 am
Operator : sv109:cb
Sample : IL24,32,,ADPL50 Lot# 7603
Misc : WG1164344,,
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Oct 04 09:54:02 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 09:48:56 2018
Response via : Initial Calibration

Sub List : ADPical - ADP sublist003nical\ADP L7.D•



Manual Integration Report

Data Path	: I:\8270\SV109\181003nical\	QMethod	: FS1801003nSV109.m
Data File	: ADPL7.D	Operator	: sv109:cb
Date Inj'd	: 10/4/2018 8:40 am	Instrument	: SV109
Sample	: IL24,32,,ADPL50 Lot# 7603	Quant Date	: 10/4/2018 9:51 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : ADPL6.D
Acq On : 4 Oct 2018 9:05 am
Operator : sv109:cb
Sample : IL25,32,,ADPL20 Lot# 7602
Misc : WG1164344,,
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Oct 04 09:54:30 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 09:48:56 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\181003nical\ADP L7.D
Sub List : ADPical - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.334	152	178946	40.000	ug/ml	0.00
Standard Area 1 = 177921			Recovery = 100.58%			
85) IS3_Acenaphthene-d10	7.277	164	368192	40.000	ug/ml	0.00
Standard Area 1 = 361321			Recovery = 101.90%			
99) IS3_Phenanthrene-d10	8.701	188	766360	40.000	ug/ml	0.00
Standard Area 1 = 771595			Recovery = 99.32%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	4.234	57	138342	18.802	ug/ml	93
86) Atrazine	8.495	200	64775	17.778	ug/ml	99
100) n-Octadecane	8.707	57	198738	18.819	ug/ml	95
101) Parathion	9.503	109	46088	15.982	ug/ml	97
102) 3,3'-Dimethylbenzidine	10.786	212	259053	17.428	ug/ml	98

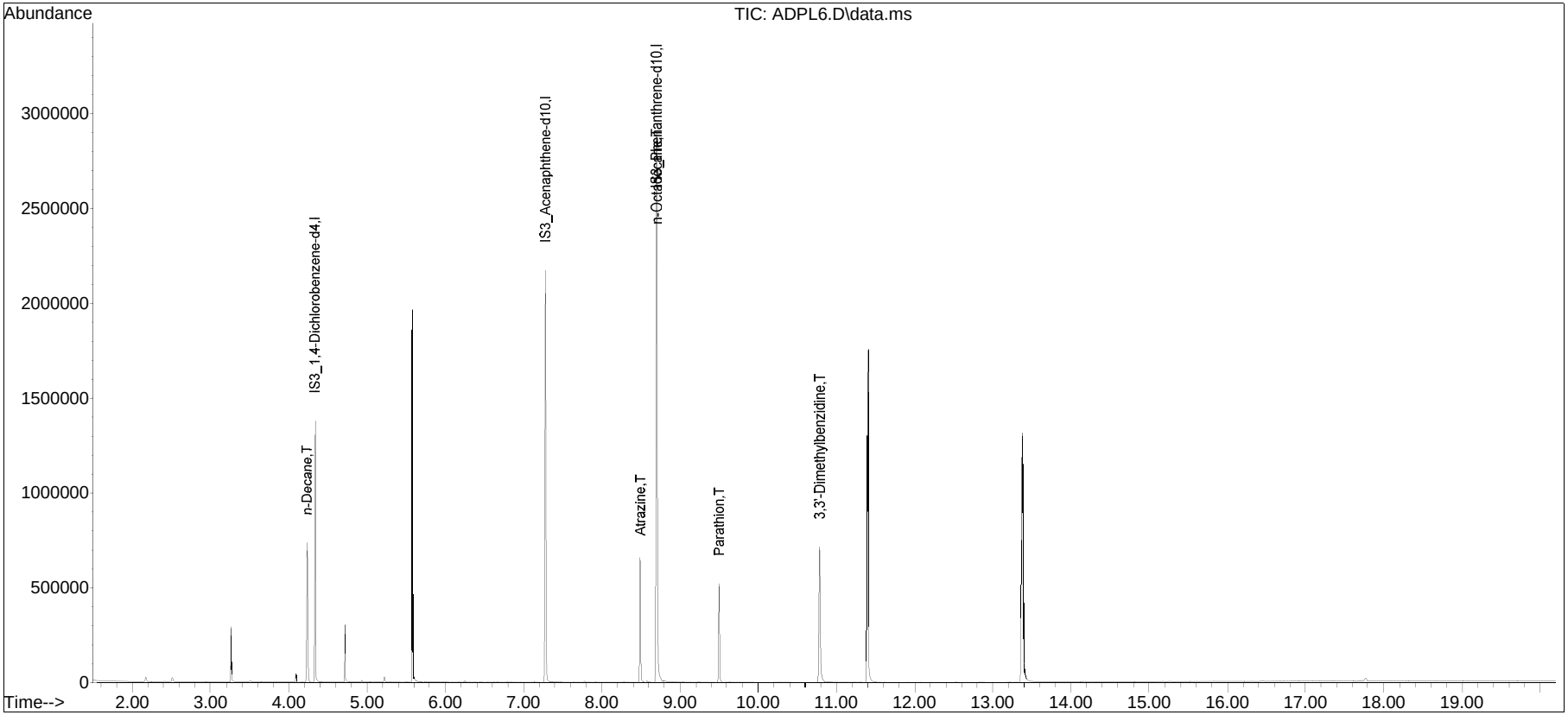
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : ADPL6.D
Acq On : 4 Oct 2018 9:05 am
Operator : sv109:cb
Sample : IL25,32,,ADPL20 Lot# 7602
Misc : WG1164344,,
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Oct 04 09:54:30 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 09:48:56 2018
Response via : Initial Calibration

Sub List : ADPical - ADP sublist003nical\ADP L7.D•



Manual Integration Report

Data Path	: I:\8270\SV109\181003nical\	QMethod	: FS1801003nSV109.m
Data File	: ADPL6.D	Operator	: sv109:cb
Date Inj'd	: 10/4/2018 9:05 am	Instrument	: SV109
Sample	: IL25,32,,ADPL20 Lot# 7602	Quant Date	: 10/4/2018 9:51 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : ADPL5.D
Acq On : 4 Oct 2018 9:30 am
Operator : sv109:cb
Sample : IL26,32,,ADPL10 Lot# 7601
Misc : WG1164344,,
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Oct 04 09:54:57 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 09:48:56 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\181003nical\ADP L7.D
Sub List : ADPical - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.334	152	164184	40.000	ug/ml	0.00
Standard Area 1 = 177921			Recovery =	92.28%		
85) IS3_Acenaphthene-d10	7.277	164	347827	40.000	ug/ml	0.00
Standard Area 1 = 361321			Recovery =	96.27%		
99) IS3_Phenanthrene-d10	8.701	188	716358	40.000	ug/ml	0.00
Standard Area 1 = 771595			Recovery =	92.84%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	4.234	57	64969	9.624	ug/ml#	91
86) Atrazine	8.493	200	29482	8.565	ug/ml	97
100) n-Octadecane	8.707	57	89409	9.057	ug/ml	94
101) Parathion	9.500	109	18713	6.942	ug/ml	94
102) 3,3'-Dimethylbenzidine	10.786	212	110827	7.976	ug/ml	98

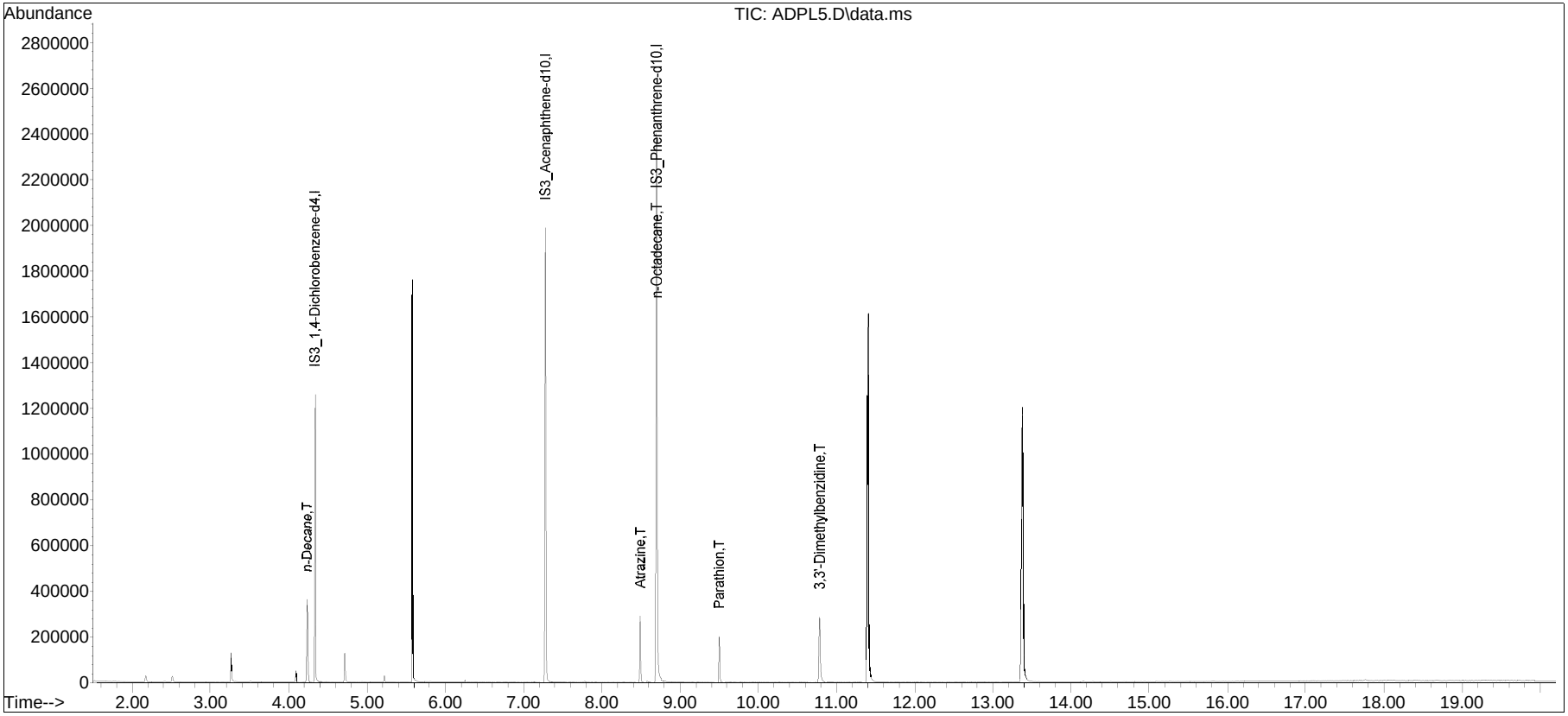
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : ADPL5.D
Acq On : 4 Oct 2018 9:30 am
Operator : sv109:cb
Sample : IL26,32,,ADPL10 Lot# 7601
Misc : WG1164344,,
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Oct 04 09:54:57 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 09:48:56 2018
Response via : Initial Calibration

Sub List : ADPical - ADP sublist003nical\ADP L7.D•



Manual Integration Report

Data Path	: I:\8270\SV109\181003nical\	QMethod	: FS1801003nSV109.m
Data File	: ADPL5.D	Operator	: sv109:cb
Date Inj'd	: 10/4/2018 9:30 am	Instrument	: SV109
Sample	: IL26,32,,ADPL10 Lot# 7601	Quant Date	: 10/4/2018 9:51 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : ADPL4.D
Acq On : 4 Oct 2018 9:56 am
Operator : sv109:cb
Sample : IL27,32,,ADPL5 Lot# 7600
Misc : WG1164344,,
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Oct 04 10:42:06 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 09:55:03 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\181003nical\ADP L7.D
Sub List : ADPical - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.334	152	230827	40.000	ug/ml	0.00
Standard Area 1 = 177921			Recovery = 129.74%			
85) IS3_Acenaphthene-d10	7.277	164	480242	40.000	ug/ml	0.00
Standard Area 1 = 361321			Recovery = 132.91%			
99) IS3_Phenanthrene-d10	8.701	188	971682	40.000	ug/ml	0.00
Standard Area 1 = 771595			Recovery = 125.93%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	4.234	57	45094	4.817	ug/ml#	94
86) Atrazine	8.492	200	19702	4.292	ug/ml	95
100) n-Octadecane	8.707	57	60227	4.667	ug/ml	94
101) Parathion	9.503	109	11603	3.431	ug/ml	95
102) 3,3'-Dimethylbenzidine	10.786	212	73623	4.085	ug/ml	99

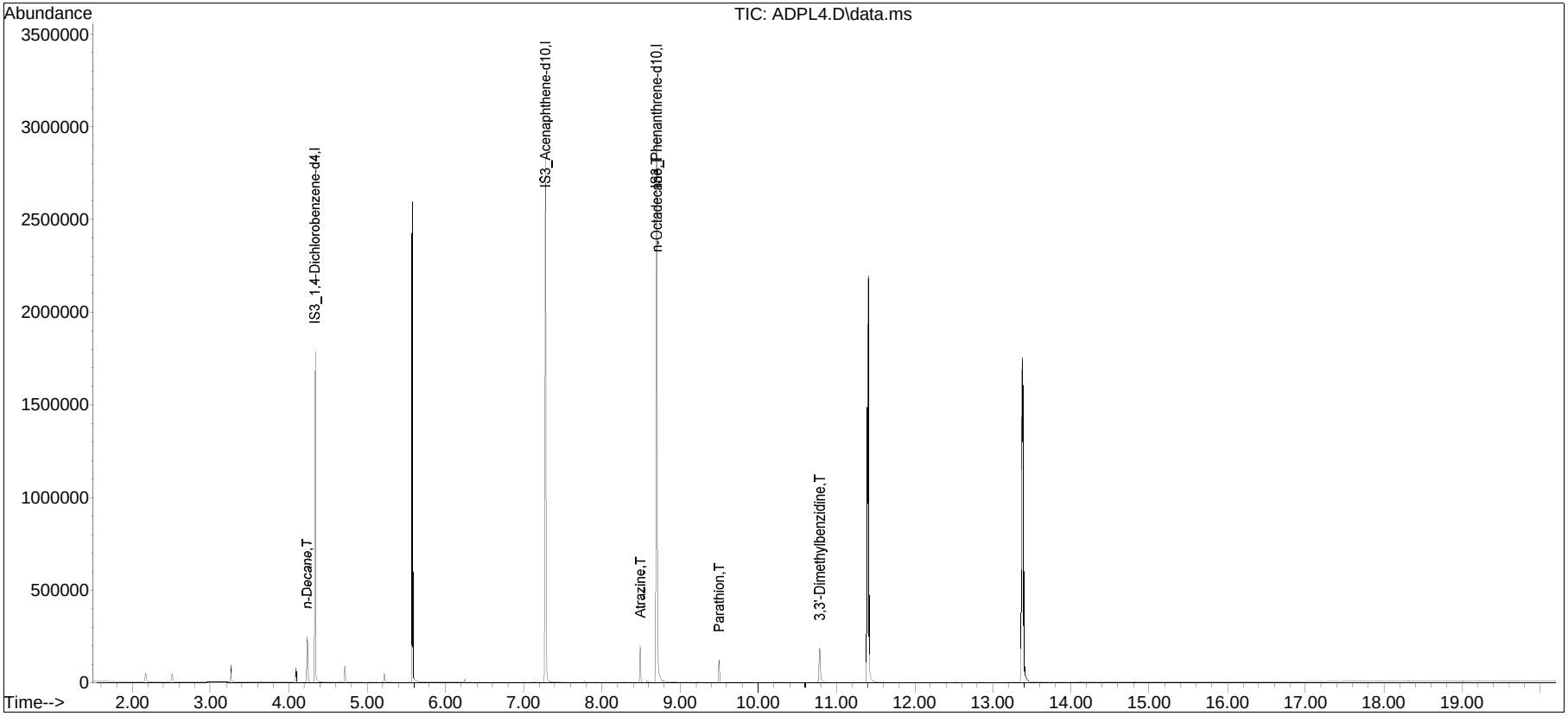
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : ADPL4.D
Acq On : 4 Oct 2018 9:56 am
Operator : sv109:cb
Sample : IL27,32,,ADPL5 Lot# 7600
Misc : WG1164344,,
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Oct 04 10:42:06 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 09:55:03 2018
Response via : Initial Calibration

Sub List : ADPical - ADP sublist003nical\ADP L7.D•



Manual Integration Report

Data Path	: I:\8270\SV109\181003nical\	QMethod	: FS1801003nSV109.m
Data File	: ADPL4.D	Operator	: sv109:cb
Date Inj'd	: 10/4/2018 9:56 am	Instrument	: SV109
Sample	: IL27,32,,ADPL5 Lot# 7600	Quant Date	: 10/4/2018 10:15 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : ADPL3.D
Acq On : 4 Oct 2018 10:21 am
Operator : sv109:cb
Sample : IL28,32,,ADPL3 Lot# 7599
Misc : WG1164344,,
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Oct 04 10:41:39 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 09:55:03 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\181003nical\ADP L7.D
Sub List : ADPical - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.334	152	169293	40.000	ug/ml	0.00
Standard Area 1 = 177921			Recovery =	95.15%		
85) IS3_Acenaphthene-d10	7.277	164	334432	40.000	ug/ml	0.00
Standard Area 1 = 361321			Recovery =	92.56%		
99) IS3_Phenanthrene-d10	8.701	188	690024	40.000	ug/ml	0.00
Standard Area 1 = 771595			Recovery =	89.43%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	4.234	57	20228	2.946	ug/ml#	93
86) Atrazine	8.493	200	8202	2.566	ug/ml	98
100) n-Octadecane	8.707	57	23923	2.611	ug/ml	91
101) Parathion	9.503	109	4359	1.815	ug/ml	95
102) 3,3'-Dimethylbenzidine	10.790	212	26869	2.099	ug/ml	99

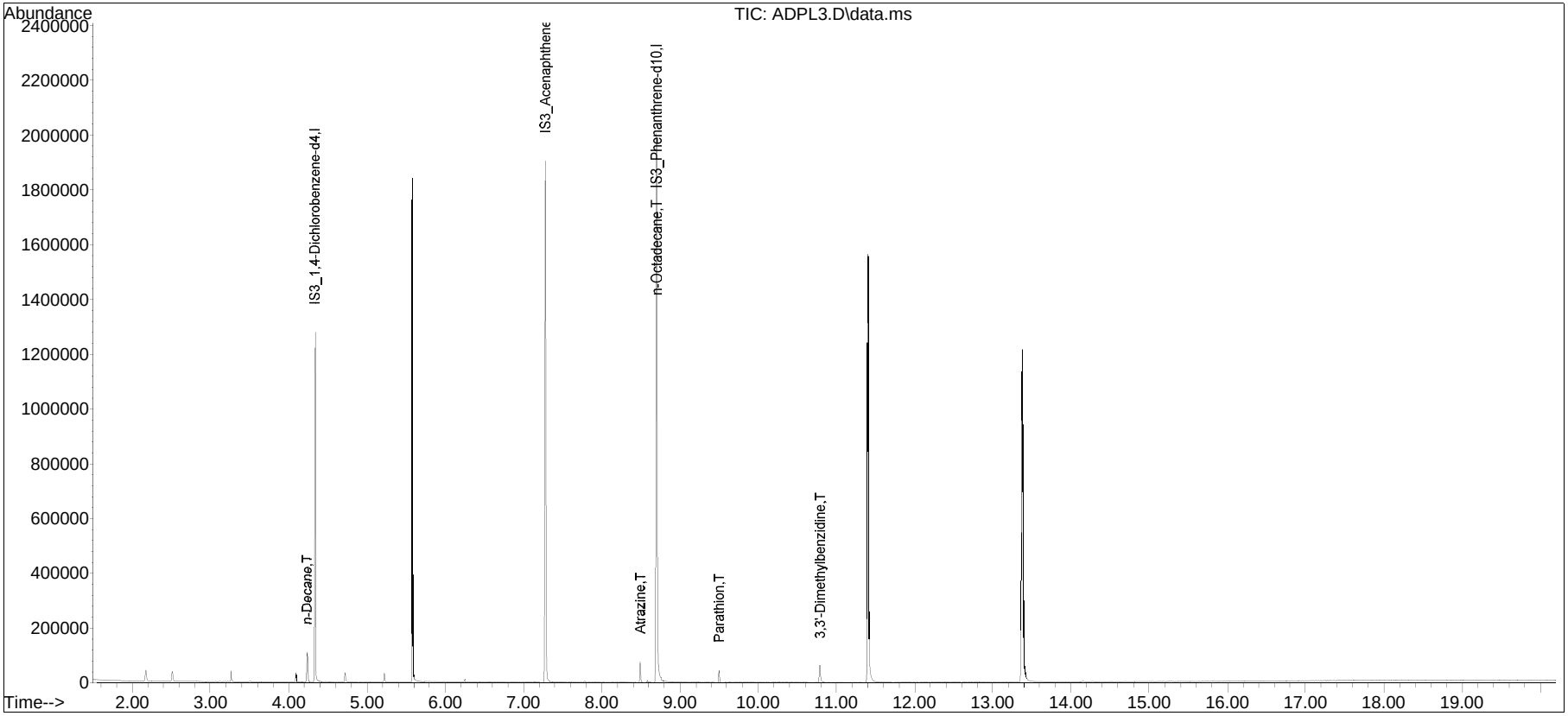
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : ADPL3.D
Acq On : 4 Oct 2018 10:21 am
Operator : sv109:cb
Sample : IL28,32,,ADPL3 Lot# 7599
Misc : WG1164344,,
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Oct 04 10:41:39 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 09:55:03 2018
Response via : Initial Calibration

Sub List : ADPical - ADP sublist003nical\ADP L7.D•



Manual Integration Report

Data Path	: I:\8270\SV109\181003nical\	QMethod	: FS1801003nSV109.m
Data File	: ADPL3.D	Operator	: sv109:cb
Date Inj'd	: 10/4/2018 10:21 am	Instrument	: SV109
Sample	: IL28,32,,ADPL3 Lot# 7599	Quant Date	: 10/4/2018 10:41 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : ADPL2.D
Acq On : 4 Oct 2018 10:46 am
Operator : sv109:cb
Sample : IL29,32,,ADPL2 Lot# 7598
Misc : WG1164344,,
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Oct 04 11:11:23 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 10:42:22 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\181003nical\ADP L7.D
Sub List : ADPical - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.334	152	187463	40.000	ug/ml	0.00
Standard Area 1 = 177921			Recovery = 105.36%			
85) IS3_Acenaphthene-d10	7.277	164	384618	40.000	ug/ml	0.00
Standard Area 1 = 361321			Recovery = 106.45%			
99) IS3_Phenanthrene-d10	8.701	188	789054	40.000	ug/ml	0.00
Standard Area 1 = 771595			Recovery = 102.26%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	4.231	57	13876	1.838	ug/ml#	92
86) Atrazine	8.492	200	5262	1.484	ug/ml	97
100) n-Octadecane	8.707	57	16394	1.604	ug/ml	90
101) Parathion	9.503	109	2653	1.011	ug/ml	89
102) 3,3'-Dimethylbenzidine	10.786	212	17484	1.271	ug/ml	97

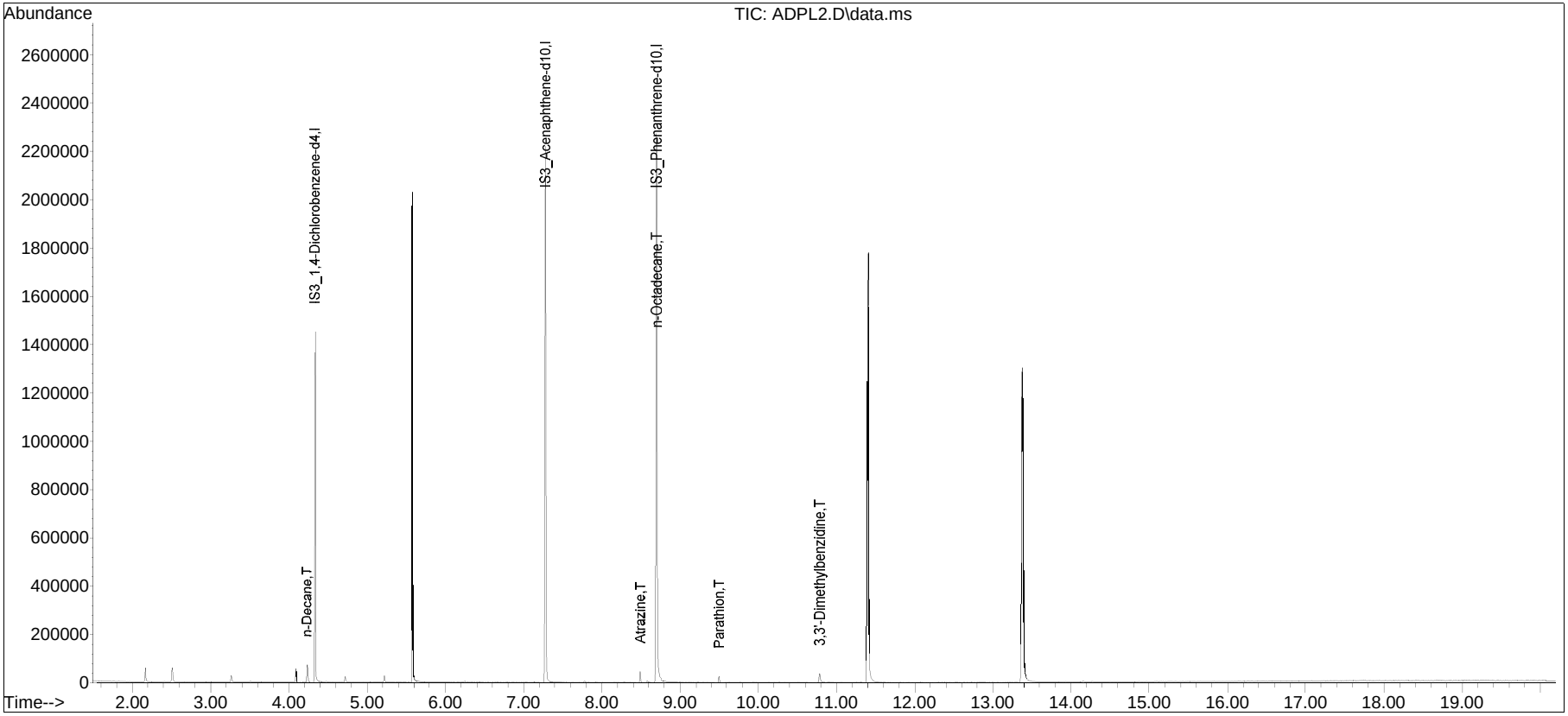
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : ADPL2.D
Acq On : 4 Oct 2018 10:46 am
Operator : sv109:cb
Sample : IL29,32,,ADPL2 Lot# 7598
Misc : WG1164344,,
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Oct 04 11:11:23 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 10:42:22 2018
Response via : Initial Calibration

Sub List : ADPical - ADP sublist003nical\ADP L7.D•



Manual Integration Report

Data Path	: I:\8270\SV109\181003nical\	QMethod	: FS1801003nSV109.m
Data File	: ADPL2.D	Operator	: sv109:cb
Date Inj'd	: 10/4/2018 10:46 am	Instrument	: SV109
Sample	: IL29,32,,ADPL2 Lot# 7598	Quant Date	: 10/4/2018 11:10 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : ADPL1.D
Acq On : 4 Oct 2018 11:11 am
Operator : sv109:cb
Sample : IL29,32,,ADPL1 Lot# 7597
Misc : WG1164344,,
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Oct 04 11:34:56 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 11:11:35 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\181003nical\ADP L7.D
Sub List : ADPical - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.334	152	204396	40.000	ug/ml	0.00
Standard Area 1 = 177921			Recovery = 114.88%			
85) IS3_Acenaphthene-d10	7.277	164	418815	40.000	ug/ml	0.00
Standard Area 1 = 361321			Recovery = 115.91%			
99) IS3_Phenanthrene-d10	8.701	188	845351	40.000	ug/ml	0.00
Standard Area 1 = 771595			Recovery = 109.56%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	4.234	57	7630	0.935	ug/ml#	90
86) Atrazine	8.492	200	2736	0.730	ug/ml	94
100) n-Octadecane	8.704	57	8770	0.819	ug/ml#	85
101) Parathion	9.499	109	1411	0.502	ug/ml#	68
102) 3,3'-Dimethylbenzidine	10.786	212	8937	0.632	ug/ml	98

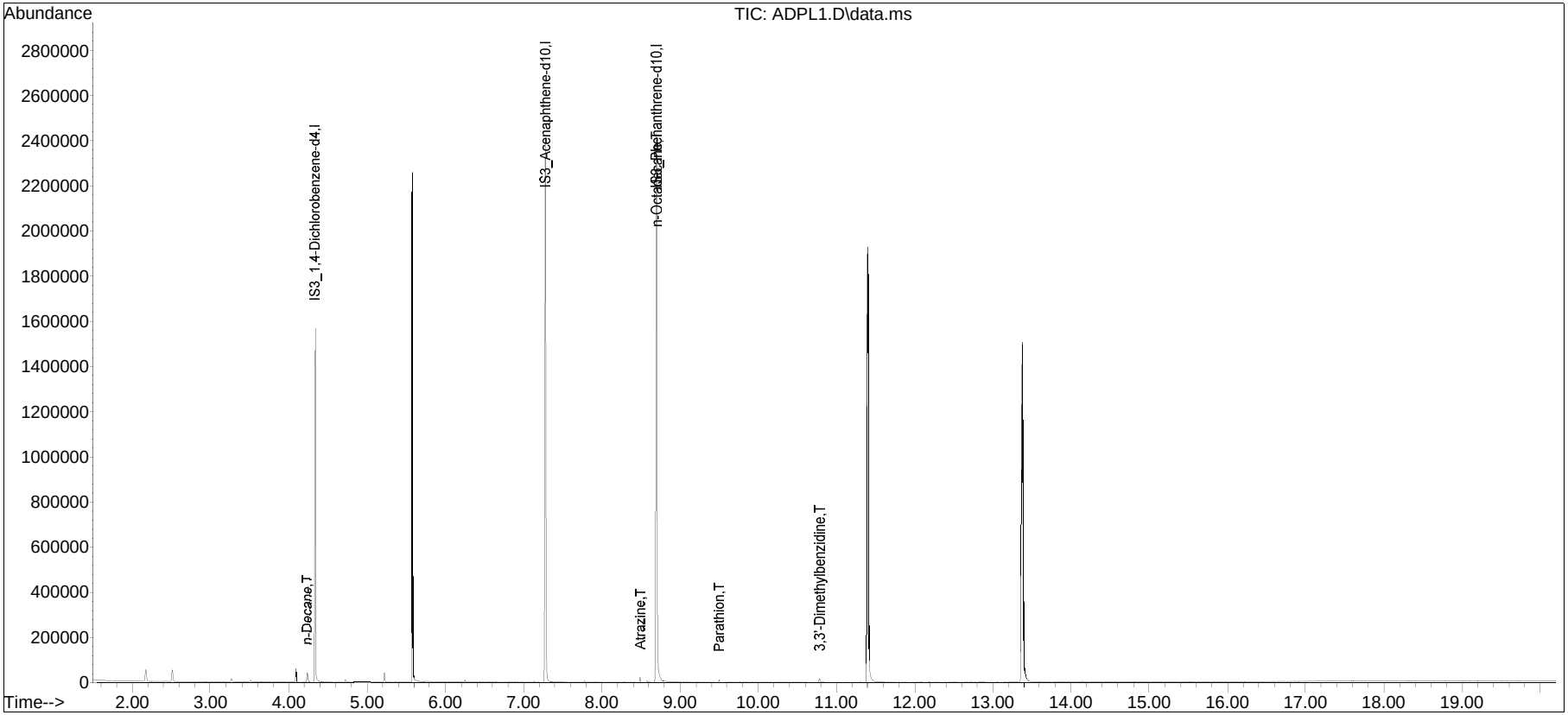
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : ADPL1.D
Acq On : 4 Oct 2018 11:11 am
Operator : sv109:cb
Sample : IL29,32,,ADPL1 Lot# 7597
Misc : WG1164344,,
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Oct 04 11:34:56 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 11:11:35 2018
Response via : Initial Calibration

Sub List : ADPical - ADP sublist003nical\ADP L7.D•



Manual Integration Report

Data Path	: I:\8270\SV109\181003nical\	QMethod	: FS1801003nSV109.m
Data File	: ADPL1.D	Operator	: sv109:cb
Date Inj'd	: 10/4/2018 11:11 am	Instrument	: SV109
Sample	: IL29,32,,ADPL1 Lot# 7597	Quant Date	: 10/4/2018 11:34 am

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV109\181003nical\
Data File : ADPICV.D
Acq On : 4 Oct 2018 11:37 am
Operator : sv109:cb
Sample : CQICV3,32,,ADPICV Lot# 7713
Misc : WG1164344,,
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Oct 04 17:20:01 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 17:19:50 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
32	I	IS3_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	106	0.00
33	T	n-Decane	1.586	1.562	1.5	103	0.00
85	I	IS3_Acenaphthene-d10	1.000	1.000	0.0	104	0.00
86	T	Atrazine	0.348	0.390	-12.1	105	0.00
99	I	IS3_Phenanthrene-d10	1.000	1.000	0.0	100	0.00
100	T	n-Octadecane	0.498	0.513	-3.0	98	0.00
101	T	Parathion	0.133	0.126	5.3	90	0.00
102	T	3,3'-Dimethylbenzidine	0.669	0.784	-17.2	104	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : ADPICV.D
Acq On : 4 Oct 2018 11:37 am
Operator : sv109:cb
Sample : CQICV3,32,,ADPICV Lot# 7713
Misc : WG1164344,,
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Oct 04 17:20:01 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 17:19:50 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\181003nical\ADP L7.D
Sub List : ADPical - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.334	152	188769	40.000	ug/ml	0.00
Standard Area 1 = 177921			Recovery = 106.10%			
85) IS3_Acenaphthene-d10	7.274	164	375242	40.000	ug/ml	0.00
Standard Area 1 = 361321			Recovery = 103.85%			
99) IS3_Phenanthrene-d10	8.698	188	774037	40.000	ug/ml	0.00
Standard Area 1 = 771595			Recovery = 100.32%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	4.234	57	368653	49.246	ug/ml	95
86) Atrazine	8.496	200	183159	56.034	ug/ml	98
100) n-Octadecane	8.707	57	496576	51.570	ug/ml	94
101) Parathion	9.500	109	121535	47.233	ug/ml	94
102) 3,3'-Dimethylbenzidine	10.786	212	758865	58.630	ug/ml	98

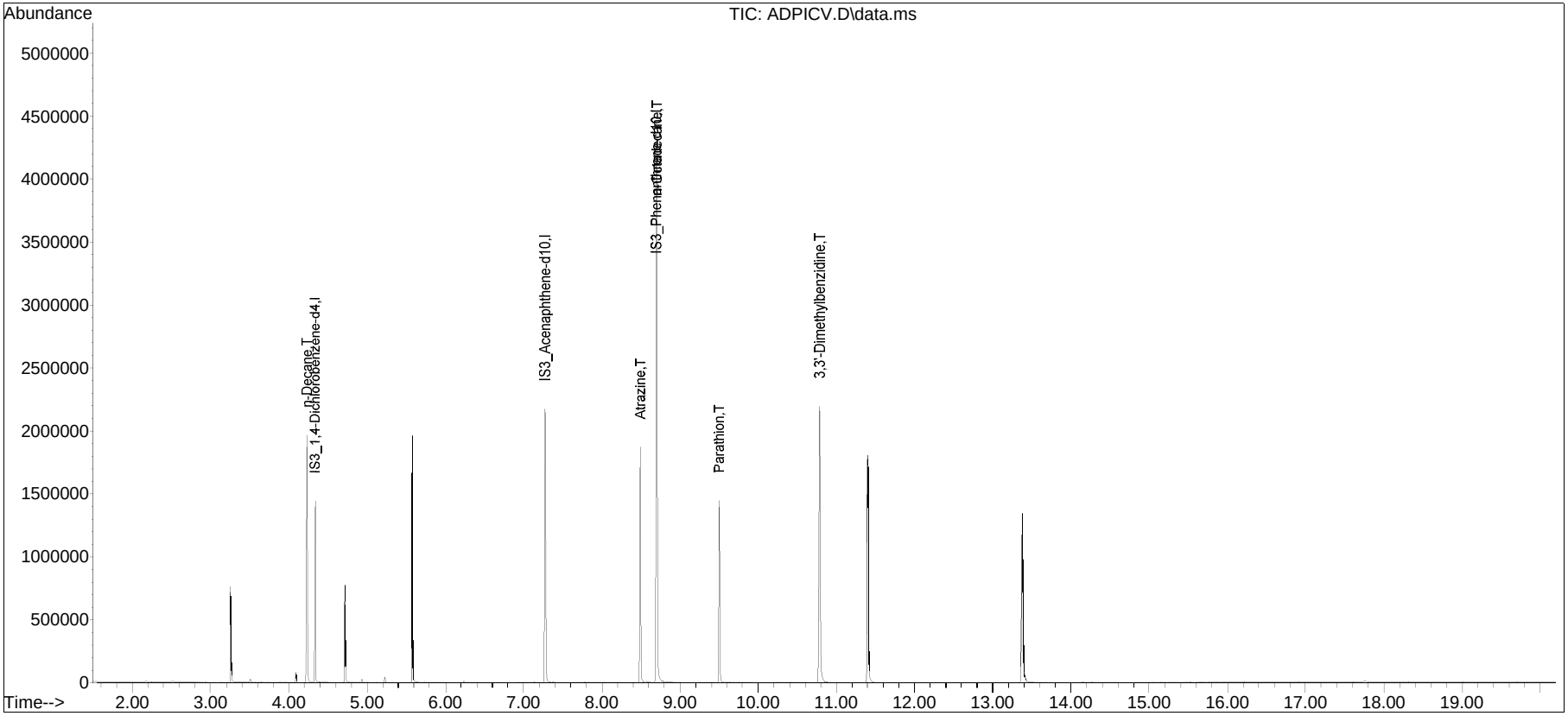
(#) = qualifier out of range (m) = manual integration (+) = signals summed

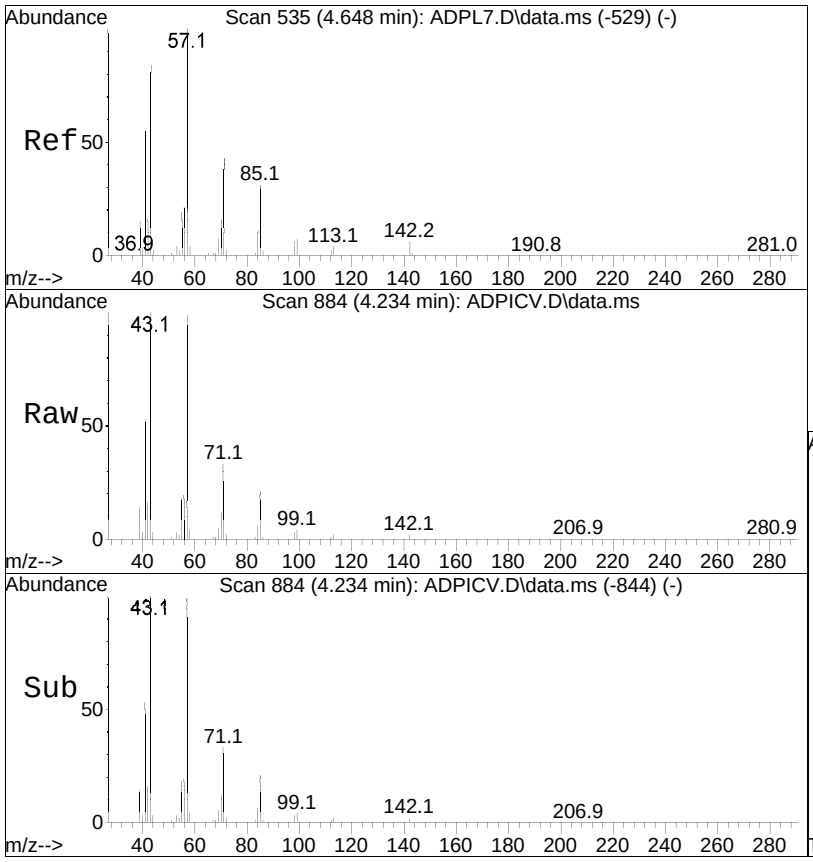
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181003nical\
Data File : ADPICV.D
Acq On : 4 Oct 2018 11:37 am
Operator : sv109:cb
Sample : CQICV3,32,,ADPICV Lot# 7713
Misc : WG1164344,,
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Oct 04 17:20:01 2018
Quant Method : I:\8270\SV109\181003nical\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Oct 04 17:19:50 2018
Response via : Initial Calibration

Sub List : ADPical - ADP sublist003nical\ADP L7.D•

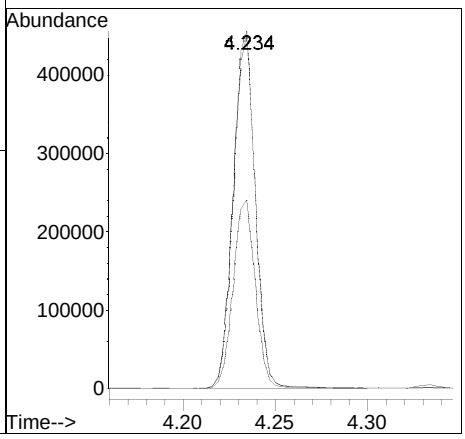


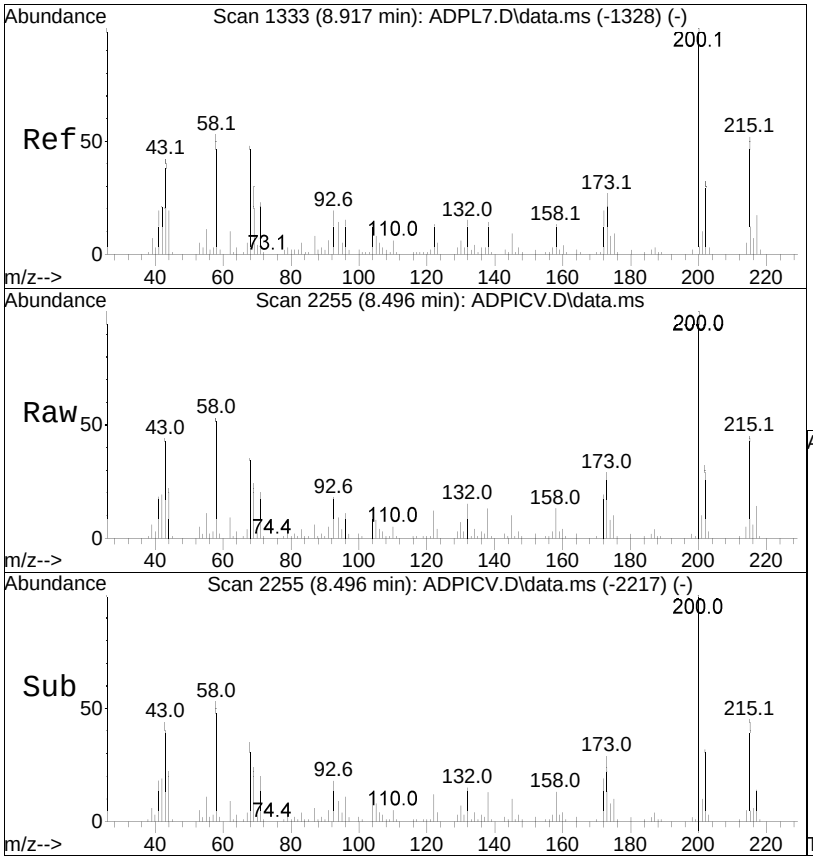


#33
n-Decane
Concen: 49.25 ug/ml
RT: 4.234 min Scan# 884
Delta R.T. 0.000 min
Lab File: ADPICV.D
Acq: 4 Oct 2018 11:37 am

Tgt Ion: 57 Resp: 368653

Ion	Ratio	Lower	Upper
57	100		
43	101.8	80.2	120.4
41	54.2	36.8	55.2

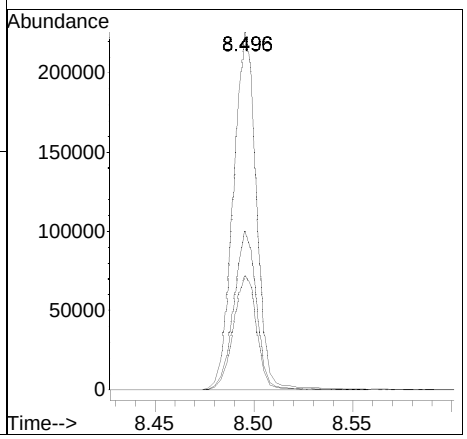


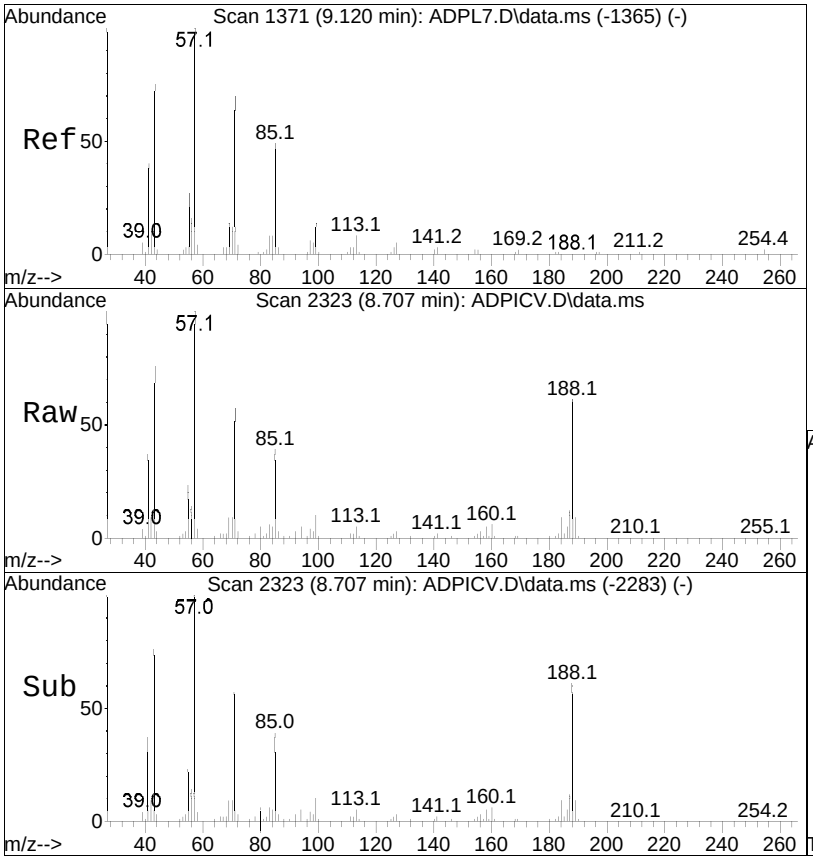


#86
Atrazine
Concen: 56.03 ug/ml
RT: 8.496 min Scan# 2255
Delta R.T. -0.006 min
Lab File: ADPICV.D
Acq: 4 Oct 2018 11:37 am

Tgt Ion:200 Resp: 183159

Ion	Ratio	Lower	Upper
200	100		
202	32.3	26.1	39.1
215	43.6	36.2	54.2

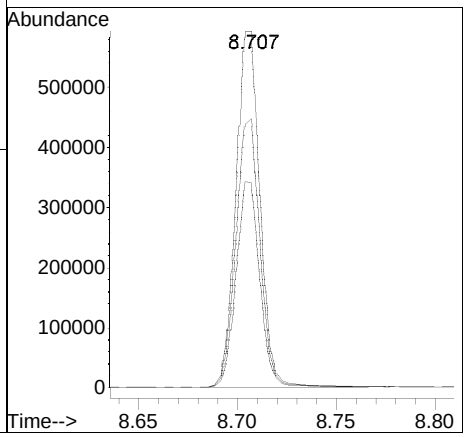


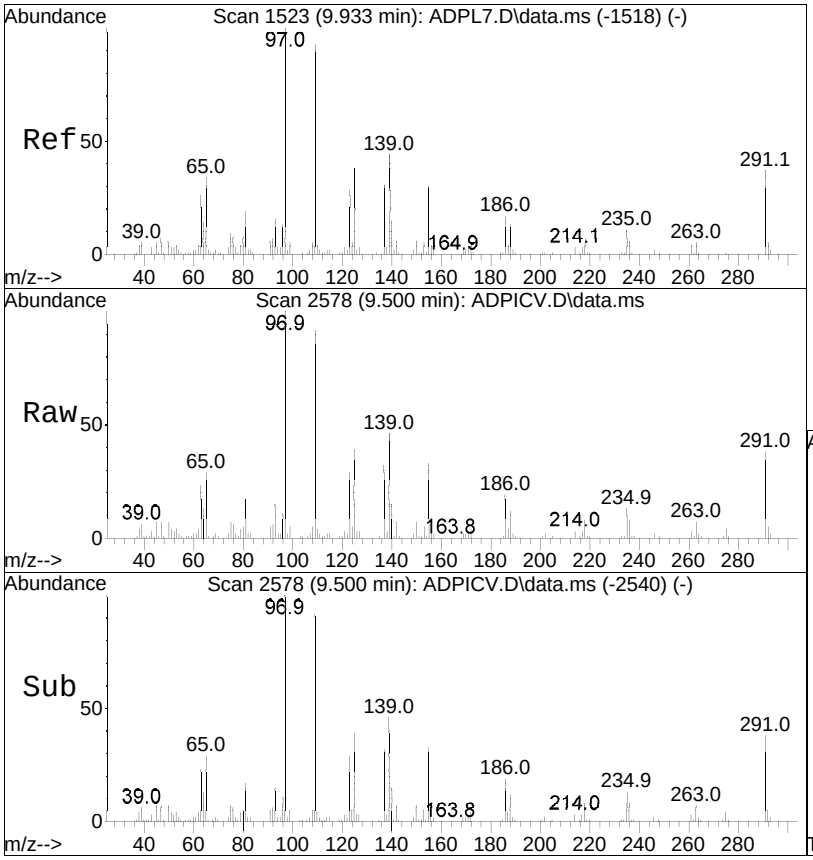


#100
n-Octadecane
Concen: 51.57 ug/ml
RT: 8.707 min Scan# 2323
Delta R.T. -0.000 min
Lab File: ADPICV.D
Acq: 4 Oct 2018 11:37 am

Tgt Ion: 57 Resp: 496576

Ion	Ratio	Lower	Upper
57	100		
43	75.9	56.6	84.8
71	57.2	42.1	63.1

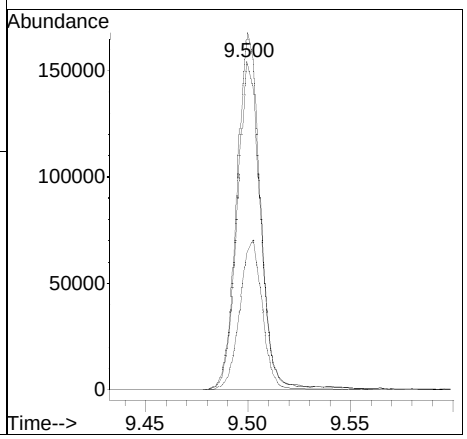


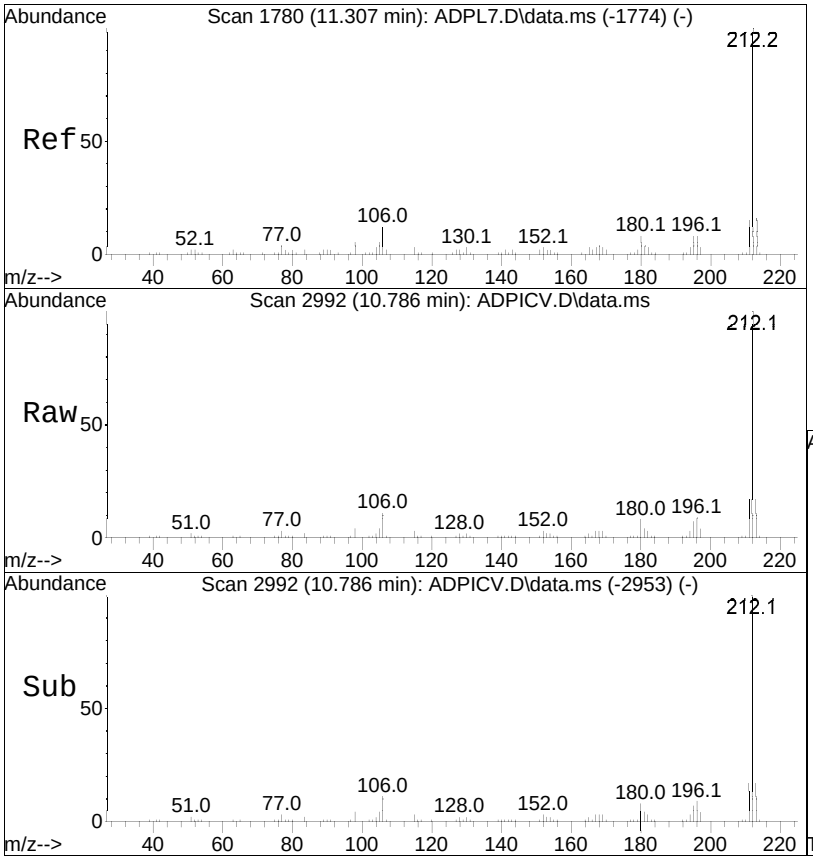


#101
Parathion
Concen: 47.23 ug/ml
RT: 9.500 min Scan# 2578
Delta R.T. -0.006 min
Lab File: ADPICV.D
Acq: 4 Oct 2018 11:37 am

Tgt Ion:109 Resp: 121535

Ion	Ratio	Lower	Upper
109	100		
97	108.2	82.5	123.7
291	44.2	30.7	46.1

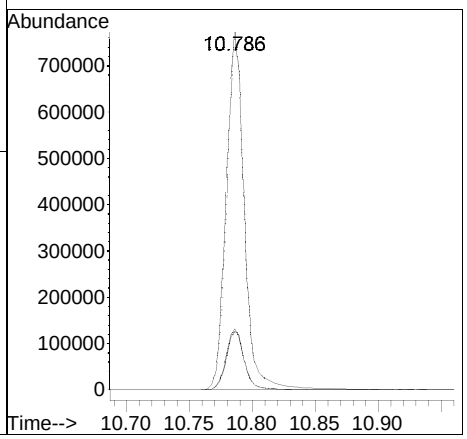




#102
3,3'-Dimethylbenzidine
Concen: 58.63 ug/ml
RT: 10.786 min Scan# 2992
Delta R.T. -0.003 min
Lab File: ADPICV.D
Acq: 4 Oct 2018 11:37 am

Tgt Ion:212 Resp: 758865

Ion	Ratio	Lower	Upper
212	100		
211	16.8	13.5	20.3
213	17.3	12.9	19.3



Manual Integration Report

Data Path	: I:\8270\SV109\181003nical\	QMethod	: FS1801003nSV109.m
Data File	: ADPICV.D	Operator	: sv109:cb
Date Inj'd	: 10/4/2018 11:37 am	Instrument	: SV109
Sample	: CQICV3,32,,ADPICV Lot# 771	Quant Date	: 10/4/2018 5:19 pm

There are no manual integrations or false positives in this file.

Response Factor Report SV103

Method Path : I:\8270\SV103\181204nical\
Method File : FS181204nSV103.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Thu Dec 06 08:19:43 2018
Response Via : Initial Calibration

Calibration Files
1.0 =ADPL1r.d 2.0 =ADPL2r.d 3.0 =ADPL3r.d 5.0 =ADPL4r.d 10 =ADPL5r.d 20 =ADPL6r.d 50 =ADPL7
100 =ADPL8r.d 150 =ADPL9r.d 200 =ADPL10r.d

		Compound	1.0	2.0	3.0	5.0	10	20	50	100	150	200	Avg	%RSD
1)	I	IS1_1,4-Dichlorobenzene-d4	ISTD											
2)	t	N-Nitrosodimethylamine	1.046	0.969	0.923	0.895	0.887	0.840	0.801	0.820	0.785	0.890	0.886	9.06
3)	t	Pyridine	1.503	1.355	1.251	1.402	1.322	1.430	1.347	1.388	1.349	1.500	1.385	5.63
4)	S	2-Fluorophenol	1.342	1.325	1.353	1.370	1.315	1.327	1.297	1.322	1.277	1.351	1.328	2.09
5)	T	Aniline	2.250	2.269	2.228	2.145	2.160	2.079	2.054	2.086	2.019	2.172	2.146	4.00
6)	t	2-Chlorophenol	1.512	1.355	1.497	1.493	1.463	1.470	1.458	1.475	1.447	1.516	1.469	3.13
7)	S	Phenol-d6	1.694	1.652	1.737	1.697	1.680	1.649	1.623	1.645	1.593	1.718	1.669	2.67
8)	T	Phenol	2.153	1.967	2.001	1.998	1.958	1.926	1.881	1.917	1.834	1.996	1.963	4.39
9)	T	bis(2-Chloroethyl)ether	1.604	1.458	1.501	1.438	1.388	1.333	1.312	1.311	1.268	1.372	1.398	7.35
10)	T	1,3-Dichlorobenzene	1.575	1.580	1.540	1.584	1.543	1.551	1.522	1.543	1.481	1.547	1.546	1.96
11)	T	1,4-Dichlorobenzene	1.715	1.637	1.597	1.603	1.567	1.560	1.551	1.592	1.528	1.597	1.595	3.29
12)	T	1,2-Dichlorobenzene	1.578	1.547	1.565	1.493	1.518	1.478	1.481	1.515	1.457	1.535	1.517	2.62
13)	t	Benzyl alcohol	1.199	1.129	1.153	1.111	1.139	1.134	1.139	1.183	1.167	1.273	1.163	4.04
14)	T	bis(2-chloroisopropyl)ether	3.571	3.337	3.265	2.982	2.828	2.615	2.481	2.461	2.374	2.749	2.866	14.35
15)	T	2-Methylphenol	1.348	1.308	1.325	1.276	1.314	1.291	1.281	1.312	1.270	1.371	1.310	2.47
16)	T	Hexachloroethane	0.668	0.593	0.607	0.619	0.610	0.581	0.586	0.605	0.590	0.639	0.610	4.36
17)	T	n-Nitrosodi-n-propylamine	1.094	1.042	1.012	1.040	1.037	1.020	1.009	1.029	1.005	1.098	1.038	3.18
18)	T	3-Methylphenol/4-Methylphenol	1.374	1.332	1.352	1.359	1.380	1.350	1.348	1.377	1.336	1.451	1.366	2.50
19)	S	Nitrobenzene-d5	1.606	1.535	1.560	1.489	1.524	1.473	1.514	1.563	1.513	1.661	1.544	3.64
20)	T	Nitrobenzene	1.598	1.574	1.578	1.581	1.548	1.513	1.514	1.559	1.500	1.650	1.561	2.92
21)	T	Isophorone	2.656	2.479	2.682	2.541	2.641	2.619	2.623	2.721	2.632	2.913	2.651	4.32
22)	T	2-Nitrophenol	0.688	0.647	0.719	0.700	0.761	0.764	0.799	0.822	0.818	0.855	0.757	8.91
23)	T	2,4-Dimethylphenol	1.239	1.271	1.329	1.310	1.308	1.299	1.309	1.362	1.334	1.450	1.321	4.29
24)	T	bis(2-Chloroethoxy)methane	1.716	1.679	1.769	1.702	1.753	1.666	1.656	1.669	1.620	1.765	1.699	2.97
25)	T	2,4-Dichlorophenol	1.005	0.984	1.045	1.063	1.093	1.075	1.105	1.158	1.113	1.191	1.083	5.87
26)	T	1,2,4-Trichlorobenzene	1.210	1.136	1.156	1.163	1.192	1.167	1.192	1.235	1.195	1.249	1.189	2.96
27)	I	IS2_1,4-Dichlorobenzene-d4	ISTD											
28)	T	Benzaldehyde			1.172	1.184	1.125	1.137	1.161	1.173	1.181	1.196	1.166	2.07
29)	T	Acetophenone	1.682	1.864	1.839	1.856	1.837	1.858	1.941	1.954	2.003	2.052	1.889	5.50
30)	T	m-Toluidine	1.717	1.990	1.930	2.006	1.974	1.998	2.091	2.073	2.106	2.177	2.006	6.25
31)	T	2-Chloroaniline	1.556	1.812	1.774	1.774	1.737	1.740	1.854	1.854	1.895	1.987	1.798	6.38
32)	I	IS3_1,4-Dichlorobenzene-d4	ISTD											
33)	T	n-Decane	0.996	0.993	0.921	0.923	0.941	0.979	0.986	1.003	1.016	1.001	0.976	3.56
34)	I	IS1_Naphthalene-d8	ISTD											
35)	T	Naphthalene	1.018	0.962	0.997	0.985	0.995	0.969	0.966	0.974	0.980	0.983	0.983	1.72
36)	T	Benzoic Acid					0.194	0.221	0.251	0.271	0.276	0.278	0.249	13.81
37)	T	4-Chloroaniline	0.129	0.125	0.133	0.127	0.124	0.117	0.120	0.120	0.119	0.123	0.124	3.93
38)	T	Hexachlorobutadiene	0.125	0.109	0.128	0.120	0.127	0.126	0.126	0.133	0.133	0.128	0.125	5.53
39)	T	p-Chloro-m-cresol	0.269	0.243	0.269	0.259	0.266	0.271	0.273	0.284	0.279	0.281	0.269	4.38
40)	T	2-Methylnaphthalene	0.667	0.612	0.646	0.631	0.646	0.658	0.649	0.664	0.656	0.663	0.649	2.63
41)	T	1-Methylnaphthalene	0.206	0.200	0.207	0.205	0.206	0.204	0.205	0.210	0.206	0.210	0.206	1.34
42)	T	Hexachlorocyclopentadiene	0.133	0.140	0.133	0.151	0.148	0.151	0.160	0.171	0.173	0.170	0.153	9.97
43)	T	2,4,6-Trichlorophenol	0.157	0.154	0.150	0.152	0.162	0.168	0.176	0.183	0.179	0.178	0.166	7.53
44)	T	2,4,5-Trichlorophenol	0.161	0.145	0.161	0.161	0.178	0.181	0.186	0.193	0.190	0.187	0.174	9.22
45)	S	2-Fluorobiphenyl	0.608	0.576	0.595	0.599	0.626	0.628	0.636	0.655	0.652	0.659	0.623	4.54

Response Factor Report SV103

Method Path : I:\8270\SV103\181204nical\
Method File : FS181204nSV103.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Thu Dec 06 08:19:43 2018
Response Via : Initial Calibration

Calibration Files
1.0 =ADPL1r.d 2.0 =ADPL2r.d 3.0 =ADPL3r.d 5.0 =ADPL4r.d 10 =ADPL5r.d 20 =ADPL6r.d 50 =ADPL7
100 =ADPL8r.d 150 =ADPL9r.d 200 =ADPL10r.d

		Compound	1.0	2.0	3.0	5.0	10	20	50	100	150	200	Avg	%RSD
46)	T	2-Chloronaphthalene	0.549	0.539	0.549	0.535	0.554	0.562	0.570	0.592	0.582	0.587	0.562	3.60
47)	T	2-Nitroaniline		0.171	0.172	0.177	0.191	0.198	0.213	0.229	0.227	0.231	0.201	12.41
48)	T	1,4-Dinitrobenzene				0.069	0.081	0.090	0.095	0.103	0.103	0.101	0.092	13.85
49)	T	1,3-Dinitrobenzene			0.081	0.084	0.093	0.100	0.108	0.114	0.113	0.112	0.100	13.08
50)	T	Dimethyl phthalate	0.589	0.563	0.597	0.587	0.635	0.646	0.665	0.699	0.687	0.689	0.636	7.74
51)	T	Acenaphthylene	0.859	0.814	0.881	0.877	0.932	0.945	0.962	1.007	0.986	0.995	0.926	7.03
52)	T	2,6-Dinitrotoluene	0.116	0.114	0.123	0.123	0.138	0.147	0.154	0.165	0.160	0.157	0.140	13.89
53)	T	1,2-Dinitrobenzene			0.051	0.054	0.067	0.068	0.068	0.074	0.071	0.071	0.066	12.71
54)	I	IS2_Naphthalene-d8	----------ISTD----------											
55)	T	a-Terpineol	0.305	0.312	0.309	0.311	0.307	0.309	0.310	0.298	0.288	0.301	0.305	2.47
56)	T	3-Chloroaniline	0.152	0.151	0.141	0.148	0.144	0.142	0.138	0.133	0.130	0.133	0.141	5.44
57)	T	2,6-Dichlorophenol	0.226	0.222	0.235	0.219	0.227	0.230	0.240	0.239	0.239	0.243	0.232	3.56
58)	T	1-chloro-2-nitrobenzene	0.121	0.117	0.118	0.128	0.122	0.123	0.132	0.132	0.131	0.135	0.126	5.12
59)	T	Caprolactam		0.167	0.162	0.167	0.170	0.174	0.174	0.171	0.167	0.176	0.170	2.59
60)	T	1,2,4,5-Tetrachlorobenzene	0.209	0.214	0.222	0.212	0.205	0.209	0.222	0.226	0.224	0.231	0.217	3.97
61)	T	Biphenyl	0.694	0.701	0.694	0.681	0.676	0.685	0.709	0.725	0.716	0.743	0.702	2.97
62)	I	IS1_Acenaphthene-d10	----------ISTD----------											
63)	T	3-Nitroaniline	0.324	0.323	0.360	0.364	0.388	0.407	0.412	0.425	0.412	0.425	0.384	10.19
64)	T	Acenaphthene	1.231	1.235	1.188	1.212	1.205	1.205	1.178	1.200	1.174	1.221	1.205	1.74
65)	T	2,4-Dinitrophenol				0.172	0.187	0.207	0.220	0.239	0.235	0.239	0.214	12.48
66)	T	Dibenzofuran	1.712	1.791	1.747	1.728	1.783	1.736	1.753	1.785	1.729	1.794	1.756	1.72
67)	T	2,4-Dinitrotoluene	0.339	0.336	0.382	0.366	0.421	0.436	0.443	0.470	0.443	0.454	0.409	12.00
68)	T	4-Nitrophenol		0.331	0.311	0.308	0.335	0.337	0.333	0.351	0.340	0.360	0.334	5.00
69)	T	2,3,5,6-Tetrachlorophenol		0.251	0.279	0.292	0.302	0.308	0.311	0.332	0.324	0.329	0.303	8.58
70)	T	2,3,4,6-Tetrachlorophenol		0.293	0.293	0.278	0.300	0.309	0.313	0.330	0.318	0.326	0.307	5.60
71)	T	Diethyl phthalate	1.448	1.423	1.440	1.414	1.501	1.514	1.511	1.600	1.542	1.599	1.499	4.53
72)	T	Fluorene	1.416	1.421	1.358	1.349	1.431	1.405	1.418	1.458	1.411	1.450	1.412	2.47
73)	T	4-Chlorophenyl-phenylether	0.609	0.609	0.605	0.606	0.611	0.602	0.600	0.630	0.605	0.624	0.610	1.57
74)	T	4-Nitroaniline	0.301	0.321	0.334	0.348	0.386	0.399	0.412	0.433	0.419	0.435	0.379	12.91
75)	T	4,6-Dinitro-o-cresol				0.196	0.220	0.239	0.251	0.273	0.264	0.272	0.245	11.71
76)	T	NDPA/DPA	1.174	1.122	1.143	1.127	1.209	1.203	1.208	1.259	1.212	1.266	1.192	4.23
77)	T	Azobenzene	1.530	1.691	1.631	1.570	1.648	1.611	1.567	1.604	1.511	1.613	1.598	3.40
78)	S	2,4,6-Tribromophenol		0.144	0.159	0.148	0.158	0.163	0.174	0.186	0.181	0.179	0.166	8.99
79)	T	4-Bromophenyl-phenylether	0.333	0.336	0.301	0.313	0.322	0.327	0.327	0.342	0.331	0.349	0.328	4.24
80)	T	Hexachlorobenzene	0.335	0.348	0.334	0.341	0.348	0.352	0.359	0.384	0.371	0.378	0.355	4.94
81)	T	Pentachlorophenol			0.195	0.193	0.213	0.223	0.237	0.248	0.243	0.247	0.225	9.97
82)	I	IS2_Acenaphthene-d10	----------ISTD----------											
83)	T	Dichloran			0.119	0.109	0.117	0.125	0.141	0.153	0.160	0.162	0.136	15.41
84)	T	Pentachloronitrobenzene				0.107	0.119	0.117	0.124	0.126	0.132	0.133	0.123	7.42
85)	I	IS3_Acenaphthene-d10	----------ISTD----------											
86)	T	Atrazine	0.290	0.263	0.275	0.277	0.289	0.311	0.321	0.348	0.360	0.367	0.310	12.05
87)	I	IS1_Phenanthrene-d10	----------ISTD----------											
88)	T	Phenanthrene	1.118	1.113	1.121	1.108	1.109	1.083	1.072	1.102	1.083	1.119	1.103	1.57
89)	T	Anthracene	1.076	1.065	1.057	1.072	1.094	1.085	1.096	1.138	1.127	1.161	1.097	3.12
90)	T	Carbazole	0.990	0.966	0.983	0.990	1.046	1.043	1.026	1.060	1.022	1.046	1.017	3.19

Response Factor Report SV103

Method Path : I:\8270\SV103\181204nical\
Method File : FS181204nSV103.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Thu Dec 06 08:19:43 2018
Response Via : Initial Calibration

Calibration Files
1.0 =ADPL1r.d 2.0 =ADPL2r.d 3.0 =ADPL3r.d 5.0 =ADPL4r.d 10 =ADPL5r.d 20 =ADPL6r.d 50 =ADPL7
100 =ADPL8r.d 150 =ADPL9r.d 200 =ADPL10r.d

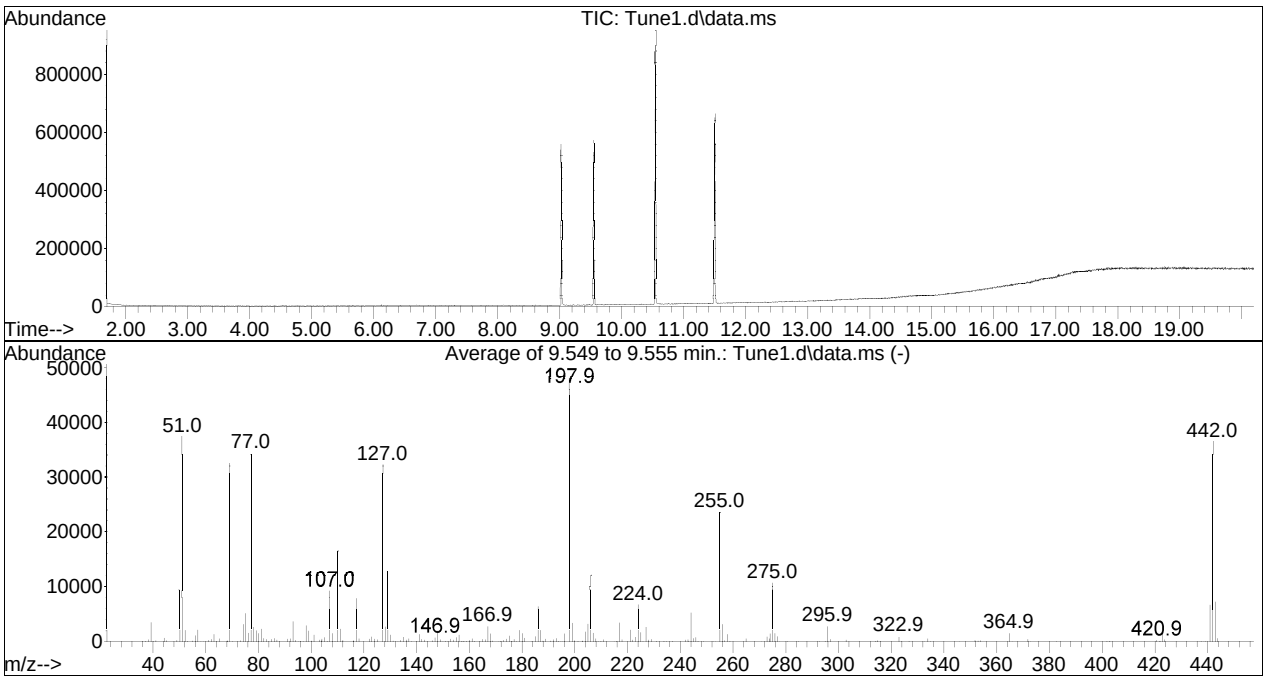
		Compound	1.0	2.0	3.0	5.0	10	20	50	100	150	200	Avg	%RSD
91)	T	Di-n-butylphthalate	1.196	1.202	1.208	1.207	1.292	1.329	1.350	1.417	1.382	1.438	1.302	7.25
92)	T	Fluoranthene	1.075	1.077	1.059	1.052	1.069	1.099	1.065	1.117	1.085	1.102	1.080	1.90
93)	T	Benzidine			0.675	0.688	0.702	0.731	0.764	0.721	0.788	0.794	0.804	0.741	6.52
94)	T	Pyrene	1.130	1.110	1.104	1.073	1.117	1.151	1.106	1.155	1.112	1.139	1.120	2.20
95)	S	4-Terphenyl-d14	0.754	0.764	0.763	0.727	0.768	0.784	0.773	0.819	0.813	0.823	0.779	4.00
96)	T	Butyl benzyl phthalate				0.529	0.502	0.546	0.584	0.583	0.623	0.613	0.636	0.577	8.24
97)	I	IS2_Phenanthrene-d10	----------ISTD----------												
98)	T	Diphenamid				0.433	0.424	0.422	0.449	0.489	0.523	0.531	0.538	0.476	10.47
99)	I	IS3_Phenanthrene-d10	----------ISTD----------												
100)	T	n-Octadecane	0.344	0.365	0.346	0.366	0.368	0.379	0.386	0.418	0.429	0.454	0.386	9.46
101)	T	Parathion					0.088	0.098	0.105	0.129	0.153	0.169	0.183	*Q	0.9996
102)	T	3,3'-Dimethylbenzidine				0.510	0.519	0.581	0.624	0.695	0.764	0.835	0.839	0.671	19.82
103)	I	IS1_Chrysene-d12	----------ISTD----------												
104)	T	Benzo[a]anthracene	1.236	1.165	1.188	1.147	1.168	1.148	1.166	1.172	1.175	1.205	1.177	2.27
105)	T	3,3'-Dichlorobenzidine			0.398	0.393	0.413	0.420	0.433	0.447	0.448	0.444	0.457	0.428	5.44
106)	T	Chrysene	1.121	1.127	1.118	1.117	1.127	1.109	1.099	1.101	1.086	1.111	1.112	1.19
107)	T	bis(2-Ethylhexyl)phthalate			0.836	0.881	0.842	0.898	0.924	0.970	1.005	0.991	1.019	0.930	7.51
108)	T	Di-n-octylphthalate				1.428	1.413	1.540	1.593	1.678	1.716	1.718	1.781	1.608	8.60
109)	T	Benzo(b)fluoranthene	1.101	1.061	1.036	1.064	1.120	1.097	1.112	1.061	1.053	1.072	1.078	2.57
110)	T	Benzo(k)fluoranthene	1.077	1.085	1.071	1.077	1.081	1.106	1.098	1.088	1.048	1.091	1.082	1.48
111)	T	Benzo(a)pyrene	1.025	1.002	1.009	1.006	1.065	1.091	1.085	1.058	1.040	1.067	1.045	3.17
112)	I	IS1_Perylene-d12	----------ISTD----------												
113)	T	Indeno(1,2,3-cd)pyrene	0.980	0.999	0.961	0.988	1.005	1.000	1.022	1.036	1.014	1.024	1.003	2.24
114)	T	Dibenzo[a,h]anthracene	0.961	0.990	1.002	1.013	1.022	1.030	1.041	1.048	1.031	1.108	1.025	3.80
115)	T	Benzo(g,h,i)perylene	1.087	1.073	1.041	1.075	1.082	1.063	1.074	1.065	1.033	1.038	1.063	1.80

(#) = Out of Range

Data Path : I:\8270\SV103\181204nical\
Data File : Tune1.d
Acq On : 4 Dec 2018 11:44 pm
Operator : SV103:cb
Sample : Tune1
Misc : wg1186012,,
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Thu Dec 06 08:19:43 2018



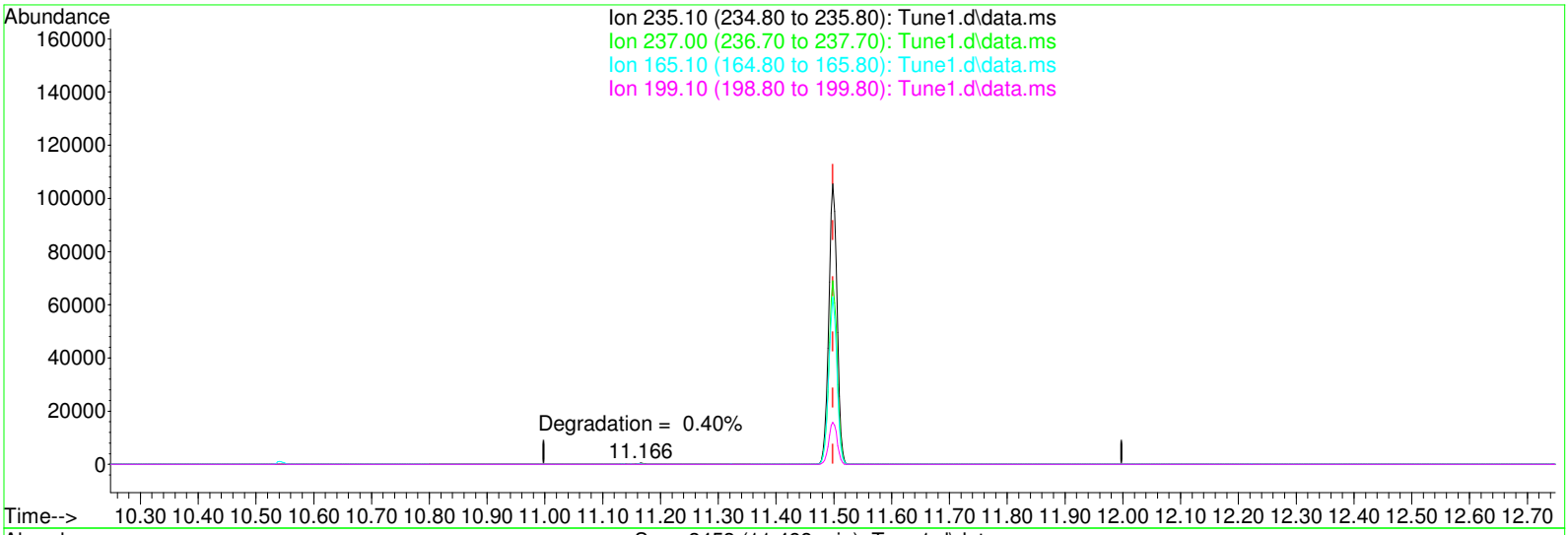
Spectrum Information: Average of 9.549 to 9.555 min.

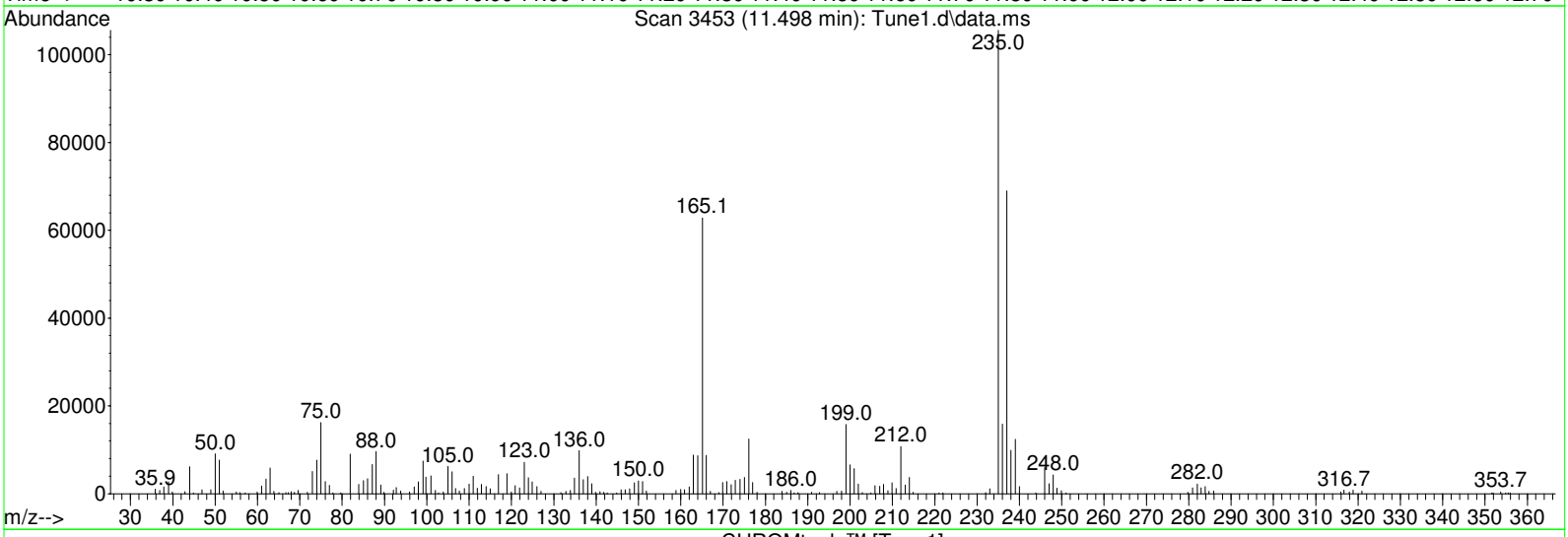
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	77.6	37373	PASS
68	69	0.00	2	0.8	262	PASS
70	69	0.00	2	0.4	141	PASS
127	198	10	80	67.1	32328	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	48187	PASS
199	198	5	9	7.0	3387	PASS
275	198	10	60	22.3	10749	PASS
365	198	1	100	3.2	1557	PASS
441	442	0.01	24	18.1	6617	PASS
442	198	50	100	75.8	36523	PASS
443	442	15	24	19.6	7158	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV103\181204nical\
Data File : Tune1.d
Acq On : 4 Dec 2018 11:44 pm
Operator : SV103:cb
Sample : Tune1
Misc : wg1186012,,
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Dec 05 00:08:11 2018
Quant Method : I:\8270\SV103\181204nical\dftppSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Nov 07 09:14:14 2017
Response via : Initial Calibration





CHROMtools™ [Tune1]

(6) ddt (T)

11.498min (+ 0.000) 0.00

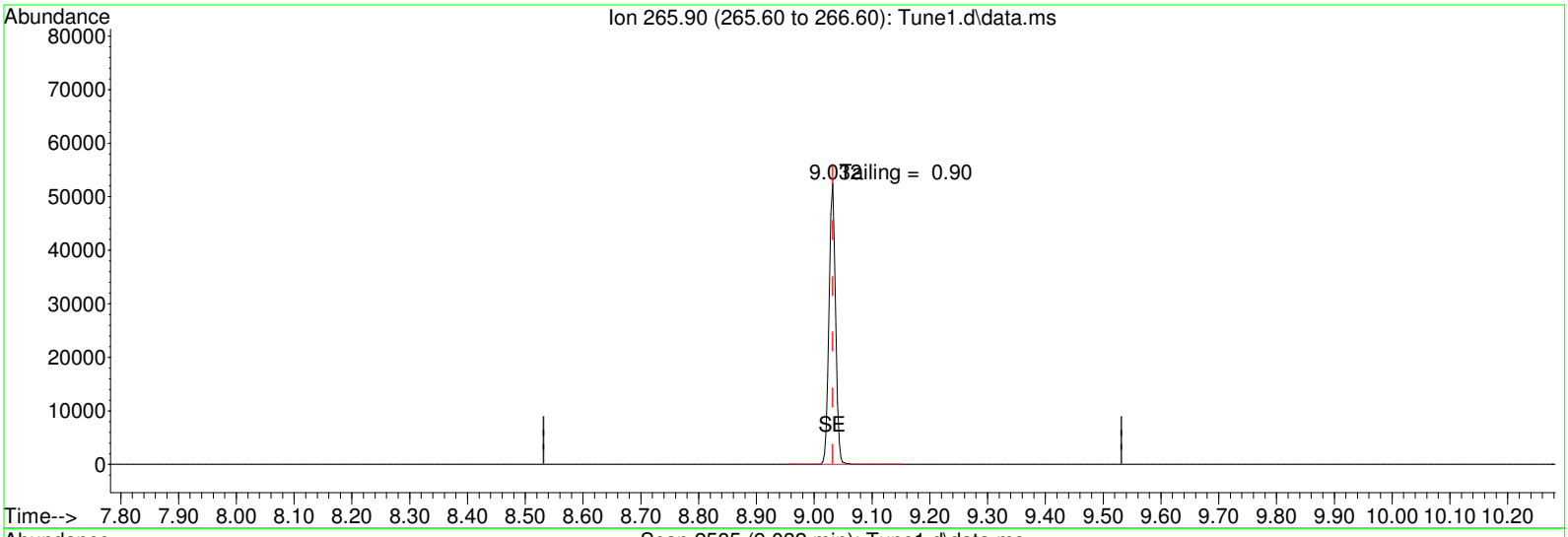
response 105503

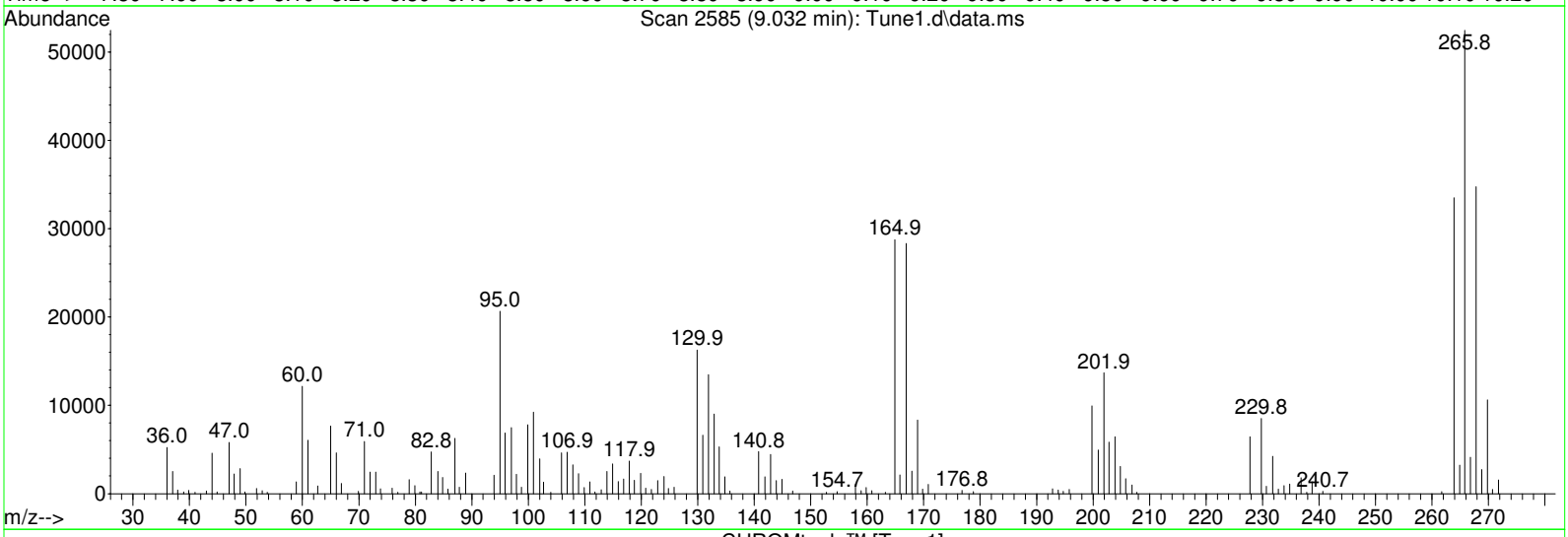
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	62.40	65.13
165.10	55.50	58.86
199.10	14.50	15.35

Quantitation Report (Qedit)

Data Path : I:\8270\SV103\181204nical\
Data File : Tune1.d
Acq On : 4 Dec 2018 11:44 pm
Operator : SV103:cb
Sample : Tune1
Misc : wg1186012,,
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Dec 05 00:08:11 2018
Quant Method : I:\8270\SV103\181204nical\dftppSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Nov 07 09:14:14 2017
Response via : Initial Calibration





CHROMtools™ [Tune1]

(1) pentachlorophenol (T)

9.032min (-0.000) 0.00

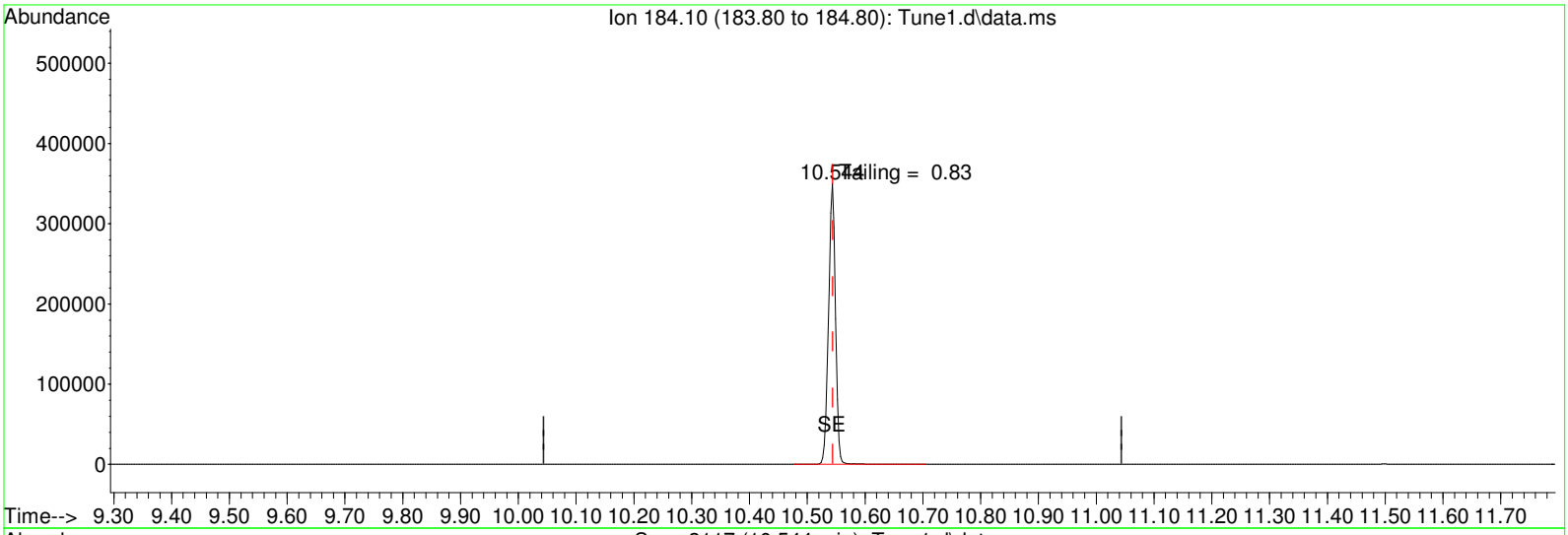
response 41110

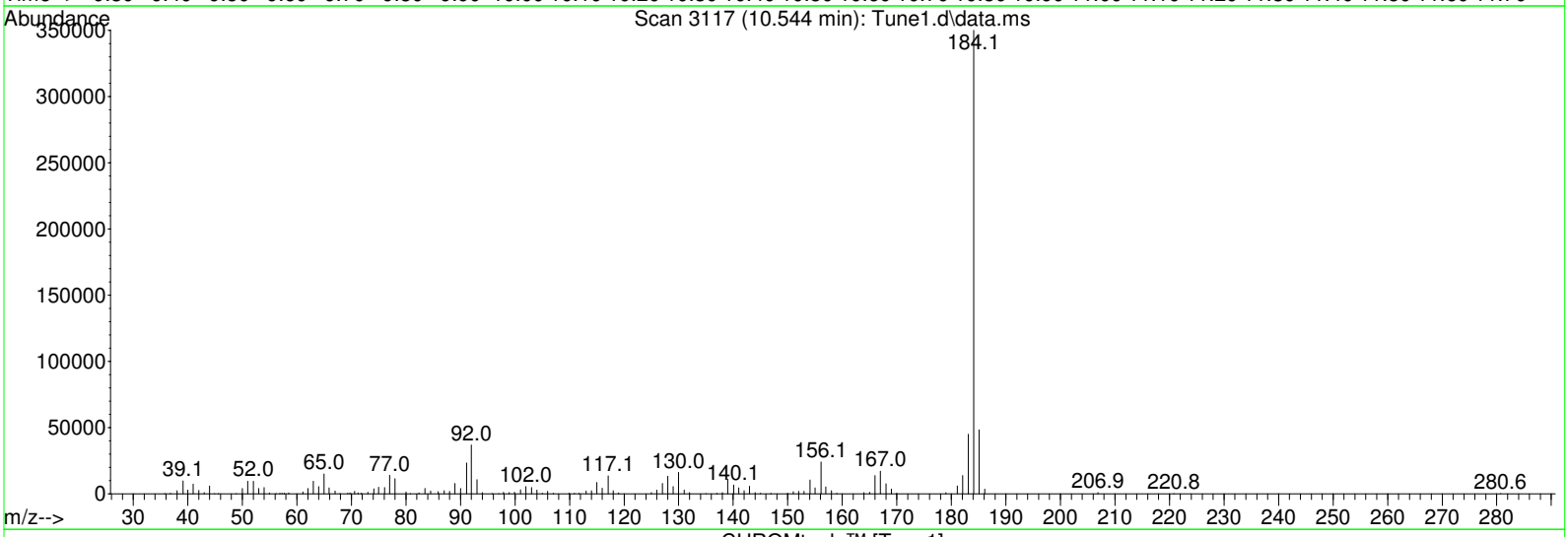
Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV103\181204nical\
Data File : Tune1.d
Acq On : 4 Dec 2018 11:44 pm
Operator : SV103:cb
Sample : Tune1
Misc : wg1186012,,
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Dec 05 00:08:11 2018
Quant Method : I:\8270\SV103\181204nical\dftppSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Nov 07 09:14:14 2017
Response via : Initial Calibration





CHROMtools™ [Tune1]

(3) benzidine (T)

10.544min (-0.001) 0.00

response 292278

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181204nical\
Data File : ABNL10.d
Acq On : 5 Dec 2018 12:09 am
Operator : SV103:cb
Sample : IL1,32,,ABNL200 Lot#7788
Misc : wg1186012,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 05 17:25:43 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 17:24:49 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\181204nical\ABNL7.d
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.807	152	78296	40.000	ug/ml	0.00
Standard Area 1 = 88720			Recovery = 88.25%			
34) IS1_Naphthalene-d8	6.051	136	365793	40.000	ug/ml	0.00
Standard Area 1 = 394538			Recovery = 92.71%			
62) IS1_Acenaphthene-d10	7.765	164	173087	40.000	ug/ml	0.00
Standard Area 1 = 185698			Recovery = 93.21%			
87) IS1_Phenanthrene-d10	9.200	188	329559M1	40.000	ug/ml	0.00
Standard Area 1 = 353061			Recovery = 93.34%			
103) IS1_Chrysene-d12	12.081	240	293198	40.000	ug/ml #	0.00
Standard Area 1 = 306161			Recovery = 95.77%			
112) IS1_Perylene-d12	14.223	264	283072	40.000	ug/ml	0.00
Standard Area 1 = 309194			Recovery = 91.55%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.542	112	528997	203.510	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 407.02%#			
7) Phenol-d6	4.508	99	672604	205.918	ug/ml	0.01
Spiked Amount 50.000	Range 15 - 110		Recovery = 411.84%#			
19) Nitrobenzene-d5	5.361	82	650130	215.132	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 860.53%#			
45) 2-Fluorobiphenyl	7.128	172	1205453	211.452	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 845.81%#			
78) 2,4,6-Tribromophenol	8.535	330	154936	215.847	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 431.69%#			
95) 4-Terphenyl-d14	10.811	244	1356873	211.455	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 845.82%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.153	74	348244	200.882	ug/ml	88
3) Pyridine	2.215	79	587174	216.636	ug/ml	96
5) Aniline	4.497	93	850441	202.429	ug/ml	98
6) 2-Chlorophenol	4.611	128	593679	206.496	ug/ml	96
8) Phenol	4.523	94	781309	203.320	ug/ml#	99
9) Bis(2-chloroethyl)ether	4.577	93	537075	196.219	ug/ml	99
10) 1,3-Dichlorobenzene	4.750	146	605534	200.037	ug/ml	97
11) 1,4-Dichlorobenzene	4.824	146	625041	200.240	ug/ml	97
12) 1,2-Dichlorobenzene	4.971	146	601012	202.448	ug/ml	96
13) Benzyl alcohol	4.977	79	498542	219.047	ug/ml	94
14) Bis(2-chloroisopropyl)...	5.108	45	1076126	191.804	ug/ml	97

Data Path : I:\8270\SV103\181204nical\
Data File : ABNL10.d
Acq On : 5 Dec 2018 12:09 am
Operator : SV103:cb
Sample : IL1,32,,ABNL200 Lot#7788
Misc : wg1186012,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 05 17:25:43 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 17:24:49 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\181204nical\ABNL7.d
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	5.102	108	536905	209.448	ug/ml	99
16) Hexachloroethane	5.298	117	250032	209.500	ug/ml	94
17) n-Nitrosodi-n-propylamine	5.247	70	429836	211.466	ug/ml	96
18) 3-Methylphenol/4-Methy...	5.264	108	568189	212.501	ug/ml	98
20) Nitrobenzene	5.381	77	646087	211.393	ug/ml	96
21) Isophorone	5.636	82	1140282	219.764	ug/ml	97
22) 2-Nitrophenol	5.690	139	334833	225.874	ug/ml#	89
23) 2,4-Dimethylphenol	5.773	107	567815	219.563	ug/ml	94
24) Bis(2-chloroethoxy)met...	5.858	93	690869	207.684	ug/ml	99
25) 2,4-Dichlorophenol	5.938	162	466152	219.871	ug/ml	97
26) 1,2,4-Trichlorobenzene	6.006	180	488942	210.003	ug/ml	99
35) Naphthalene	6.074	128	1797878	200.037	ug/ml	99
36) Benzoic Acid	5.952	105	509136	224.036	ug/ml	96
37) 4-Chloroaniline	6.148	65	224400	198.350	ug/ml	77
38) Hexachlorobutadiene	6.216	225	233659	203.804	ug/ml	98
39) p-Chloro-m-cresol	6.651	107	514013	208.617	ug/ml	91
40) 2-Methylnaphthalene	6.753	142	1211992	204.141	ug/ml	98
41) 1-Methylnaphthalene	6.847	115	384156	203.915	ug/ml	80
42) Hexachlorocyclopentadiene	6.921	237	310956	222.304	ug/ml	97
43) 2,4,6-Trichlorophenol	7.046	196	325280	214.603	ug/ml	96
44) 2,4,5-Trichlorophenol	7.077	196	342547	214.717	ug/ml	100
46) 2-Chloronaphthalene	7.225	162	1073864	209.024	ug/ml	98
47) 2-Nitroaniline	7.344	138	423261	230.245	ug/ml	89
48) 1,4-Dinitrobenzene	7.478	168	184599	220.265	ug/ml	96
49) 1,3-Dinitrobenzene	7.554	168	204610	222.669	ug/ml	95
50) Dimethyl phthalate	7.551	163	1260269	216.796	ug/ml	100
51) Acenaphthylene	7.625	152	1819998	214.940	ug/ml	99
52) 2,6-Dinitrotoluene	7.588	165	286416	224.201	ug/ml	97
53) 1,2-Dinitrobenzene	7.640	168	130260	217.025	ug/ml	98
63) 3-Nitroaniline	7.750	138	367583	221.283	ug/ml	90
64) Acenaphthene	7.799	154	1056863	202.694	ug/ml	99
65) 2,4-Dinitrophenol	7.847	184	207117	223.582	ug/ml	95
66) Dibenzofuran	7.966	168	1552271	204.314	ug/ml	94
67) 2,4-Dinitrotoluene	7.978	165	393127M2	222.060	ug/ml	
68) 4-Nitrophenol	7.946	65	311660	215.640	ug/ml#	86
69) 2,3,5,6-Tetrachlorophenol	8.057	232	284676	217.023	ug/ml	98
70) 2,3,4,6-Tetrachlorophenol	8.100	232	282158	212.734	ug/ml	99
71) Diethyl phthalate	8.239	149	1383937	213.338	ug/ml	99
72) Fluorene	8.299	166	1254579	205.381	ug/ml	99
73) 4-Chlorophenyl phenyl ...	8.316	204	540159	204.631	ug/ml	92

Data Path : I:\8270\SV103\181204nical\
Data File : ABNL10.d
Acq On : 5 Dec 2018 12:09 am
Operator : SV103:cb
Sample : IL1,32,,ABNL200 Lot#7788
Misc : wg1186012,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 05 17:25:43 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 17:24:49 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\181204nical\ABNL7.d
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74)	4-Nitroaniline	8.353	138	376061	229.502	ug/ml	82
75)	4,6-Dinitro-o-cresol	8.376	198	235111	221.837	ug/ml	94
76)	NDPA/DPA	8.438	169	1095494	212.376	ug/ml	99
77)	Azobenzene	8.469	77	1395787	201.898	ug/ml	99
79)	4-Bromophenyl phenyl e...	8.785	248	302405	212.947	ug/ml	91
80)	Hexachlorobenzene	8.836	284	327171	212.978	ug/ml	97
81)	Pentachlorophenol	9.035	266	213418	219.419	ug/ml	96
88)	Phenanthrene	9.228	178	1844569	202.997	ug/ml	99
89)	Anthracene	9.276	178	1913631	211.697	ug/ml	99
90)	Carbazole	9.447	167	1723552	205.650	ug/ml	98
91)	Di-n-butylphthalate	9.830	149	2369771	220.926	ug/ml	99
92)	Fluoranthene	10.384	202	1815687	204.049	ug/ml	97
93)	Benzidine	10.549	184	1324626	217.044	ug/ml	99
94)	Pyrene	10.612	202	1877257	203.482	ug/ml	99
96)	Butyl benzyl phthalate	11.419	149	1048064	220.520	ug/ml	95
104)	Benzo(a)anthracene	12.067	228	1765787	204.655	ug/ml	99
105)	3,3'-Dichlorobenzidine	12.078	252	670613	213.602	ug/ml	99
106)	Chrysene	12.121	228	1628333	199.853	ug/ml	98
107)	Bis(2-ethylhexyl)phtha...	12.240	149	1493377	219.188	ug/ml	98
108)	Di-n-octylphthalate	13.237	149	2610262	221.436	ug/ml	99
109)	Benzo(b)fluoranthene	13.652	252	1571446	198.963	ug/ml#	95
110)	Benzo(k)fluoranthene	13.703	252	1599372M1	201.631	ug/ml	
111)	Benzo(a)pyrene	14.146	252	1564134	204.253	ug/ml#	94
113)	Indeno(1,2,3-cd)pyrene	15.854	276	1449860	204.284	ug/mL#	91
114)	Dibenzo(a,h)anthracene	15.911	278	1568015	216.253	ug/ml	95
115)	Benzo(ghi)perylene	16.238	276	1469577	195.307	ug/ml#	90

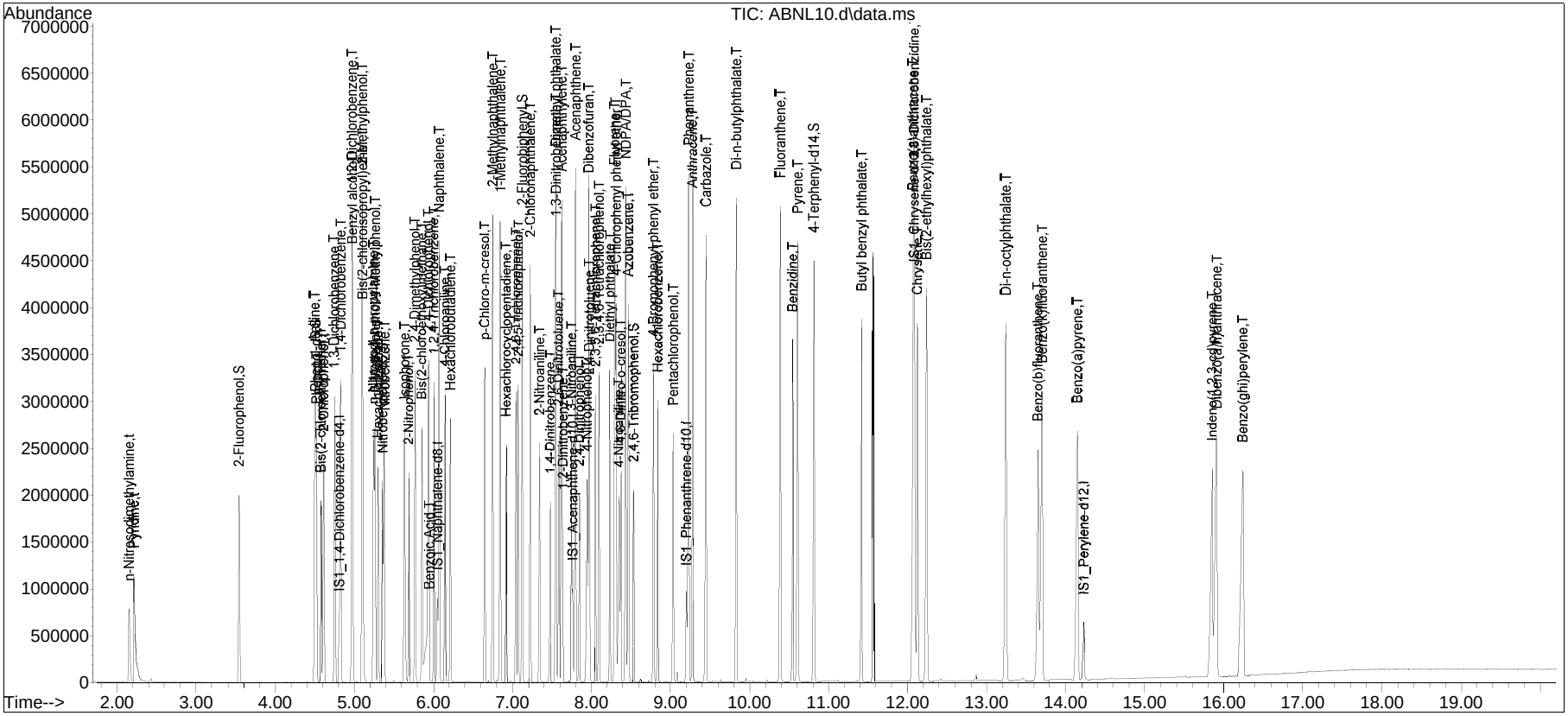
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181204nical\
Data File : ABNL10.d
Acq On : 5 Dec 2018 12:09 am
Operator : SV103:cb
Sample : IL1,32,,ABNL200 Lot#7788
Misc : wg1186012,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 05 17:25:43 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 17:24:49 2018
Response via : Initial Calibration

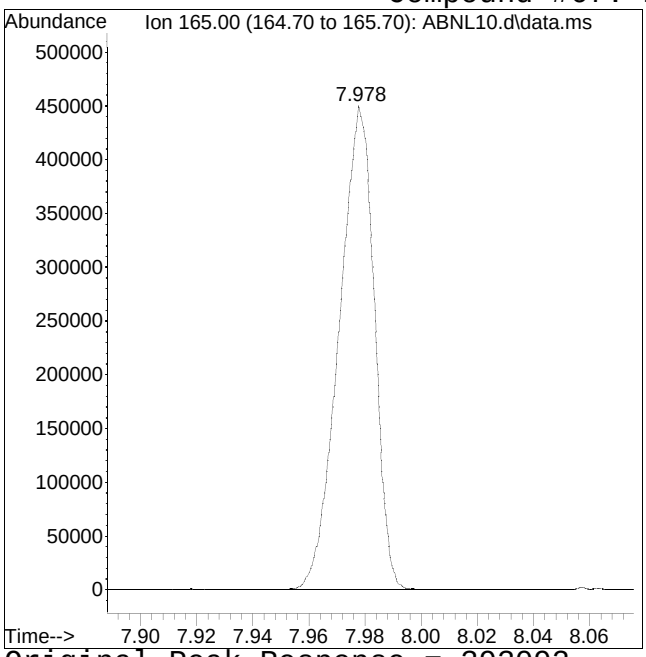
Sub List : ABNical - ABN ical sublistcal\ABNL7.d•

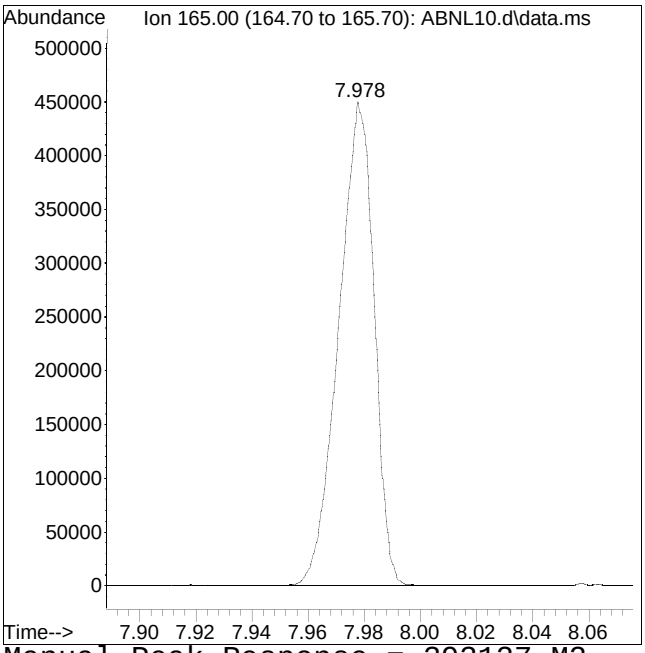


Manual Integration Report

Data Path : I:\8270\SV103\181204nical\QMethod : FS181204nSV103.m
Data File : ABNL10.d Operator : SV103:cb
Date Inj'd : 12/5/2018 12:09 am Instrument : SV103
Sample : IL1,32,,ABNL200 Lot#7788 Quant Date : 12/5/2018 5:25 pm

Compound #67: 2,4-Dinitrotoluene



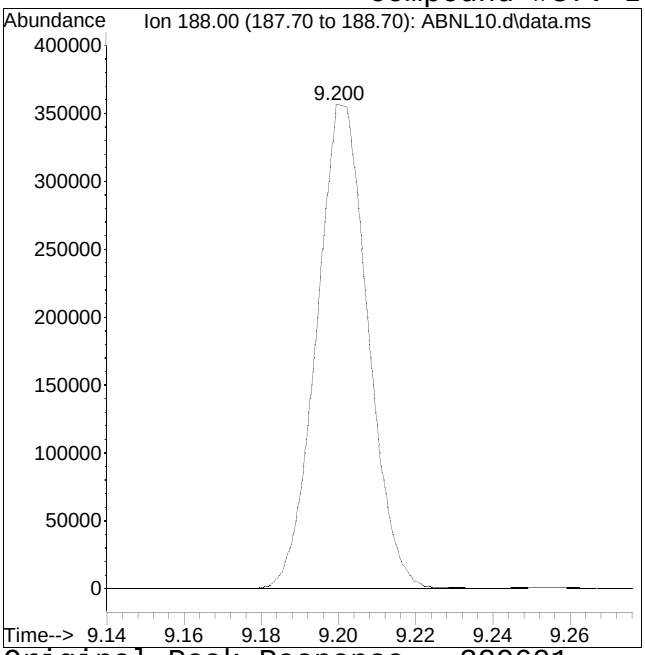


Original Peak Response = 393092 Manual Peak Response = 393127 M2
M2 = Peak not found by automatic integration algorithm.

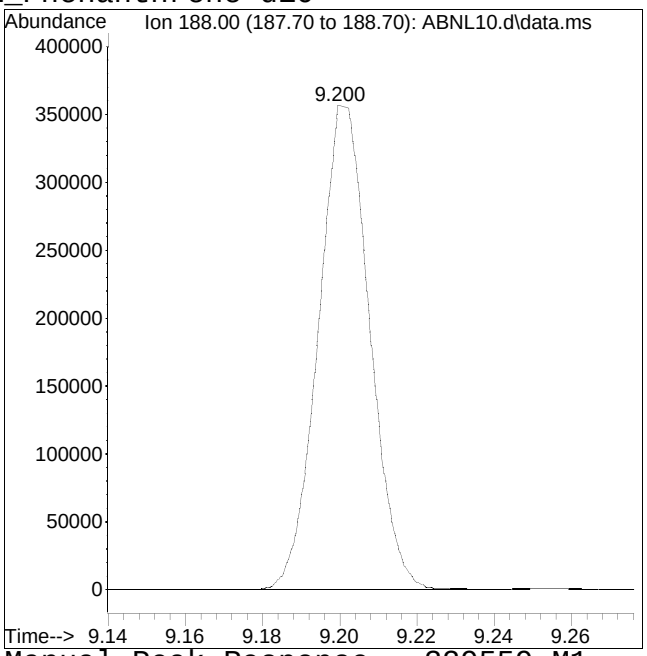
Manual Integration Report

Data Path : I:\8270\SV103\181204nical\QMethod : FS181204nSV103.m
Data File : ABNL10.d Operator : SV103:cb
Date Inj'd : 12/5/2018 12:09 am Instrument : SV103
Sample : IL1,32,,ABNL200 Lot#7788 Quant Date : 12/5/2018 5:25 pm

Compound #87: IS1_Phenanthrene-d10



Original Peak Response = 329601



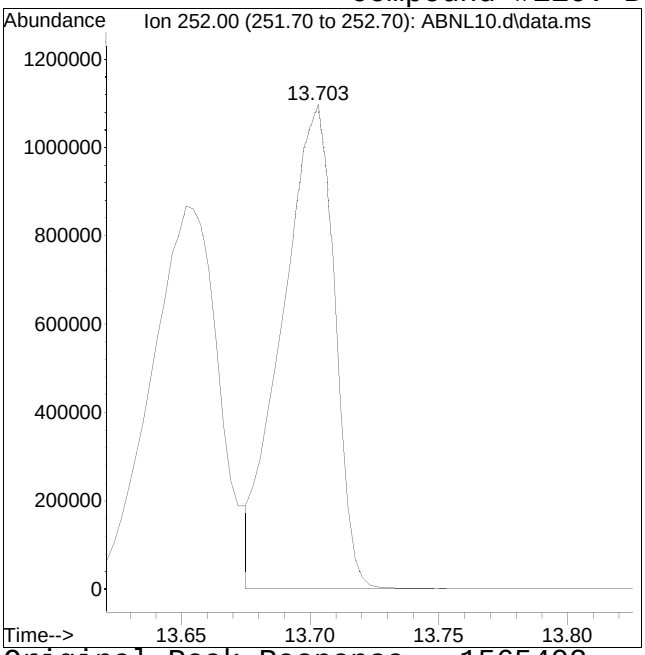
Manual Peak Response = 329559 M1

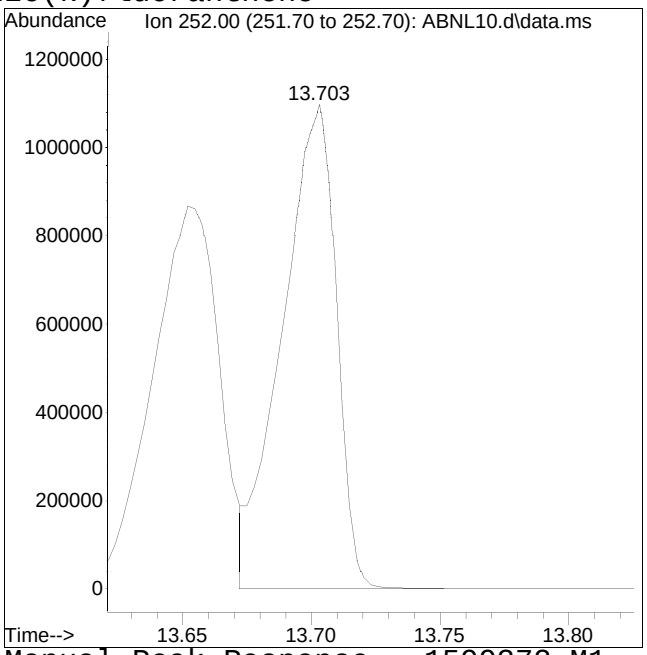
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\8270\SV103\181204nical\QMethod : FS181204nSV103.m
Data File : ABNL10.d Operator : SV103:cb
Date Inj'd : 12/5/2018 12:09 am Instrument : SV103
Sample : IL1,32,,ABNL200 Lot#7788 Quant Date : 12/5/2018 5:25 pm

Compound #110: Benzo(k)fluoranthene





Original Peak Response = 1565402 Manual Peak Response = 1599372 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181204nical\
Data File : ABNL9.d
Acq On : 5 Dec 2018 12:35 am
Operator : SV103:cb
Sample : IL2,32,,ABNL150 Lot#7797
Misc : wg1186012,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 05 17:27:07 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 17:24:49 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\181204nical\ABNL7.d
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.807	152	94814	40.000	ug/ml	0.00
Standard Area 1 = 88720			Recovery = 106.87%			
34) IS1_Naphthalene-d8	6.051	136	417261	40.000	ug/ml	0.00
Standard Area 1 = 394538			Recovery = 105.76%			
62) IS1_Acenaphthene-d10	7.765	164	204398	40.000	ug/ml	0.00
Standard Area 1 = 185698			Recovery = 110.07%			
87) IS1_Phenanthrene-d10	9.200	188	385080M1	40.000	ug/ml	0.00
Standard Area 1 = 353061			Recovery = 109.07%			
103) IS1_Chrysene-d12	12.081	240	341474	40.000	ug/ml	0.00
Standard Area 1 = 306161			Recovery = 111.53%			
112) IS1_Perylene-d12	14.223	264	331057	40.000	ug/ml	0.00
Standard Area 1 = 309194			Recovery = 107.07%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.539	112	454100	144.261	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 288.52%#			
7) Phenol-d6	4.505	99	566282	143.164	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 286.33%#			
19) Nitrobenzene-d5	5.358	82	537979	147.007	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 588.03%#			
45) 2-Fluorobiphenyl	7.125	172	1019876	156.833	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 627.33%#			
78) 2,4,6-Tribromophenol	8.535	330	139021	164.007	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 328.01%#			
95) 4-Terphenyl-d14	10.811	244	1174524	156.648	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 626.59%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.153	74	279052	132.926	ug/ml	90
3) Pyridine	2.215	79	479653	146.136	ug/ml	92
5) Aniline	4.497	93	717746	141.081	ug/ml	95
6) 2-Chlorophenol	4.608	128	514572	147.799	ug/ml	93
8) Phenol	4.520	94	652200	140.154	ug/ml#	98
9) Bis(2-chloroethyl)ether	4.576	93	450854	136.022	ug/ml	97
10) 1,3-Dichlorobenzene	4.750	146	526537	143.637	ug/ml	97
11) 1,4-Dichlorobenzene	4.824	146	543307	143.733	ug/ml	97
12) 1,2-Dichlorobenzene	4.971	146	518113	144.119	ug/ml	97
13) Benzyl alcohol	4.974	79	414873	150.528	ug/ml	94
14) Bis(2-chloroisopropyl)...	5.108	45	844231	124.258	ug/ml	98

Data Path : I:\8270\SV103\181204nical\
Data File : ABNL9.d
Acq On : 5 Dec 2018 12:35 am
Operator : SV103:cb
Sample : IL2,32,,ABNL150 Lot#7797
Misc : wg1186012,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 05 17:27:07 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 17:24:49 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\181204nical\ABNL7.d
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	5.102	108	451639	145.492	ug/ml	98
16) Hexachloroethane	5.298	117	209889	145.226	ug/ml	97
17) n-Nitrosodi-n-propylamine	5.244	70	357319	145.165	ug/ml	96
18) 3-Methylphenol/4-Methy...	5.261	108	474949	146.684	ug/ml	99
20) Nitrobenzene	5.378	77	533188	144.061	ug/ml	94
21) Isophorone	5.633	82	935717	148.921	ug/ml	97
22) 2-Nitrophenol	5.690	139	290769	161.977	ug/ml#	87
23) 2,4-Dimethylphenol	5.773	107	474474	151.507	ug/ml	92
24) Bis(2-chloroethoxy)met...	5.855	93	576022	142.993	ug/ml	98
25) 2,4-Dichlorophenol	5.935	162	395804	154.165	ug/ml	97
26) 1,2,4-Trichlorobenzene	6.006	180	424723	150.641	ug/ml	99
35) Naphthalene	6.074	128	1534086	149.633	ug/ml	100
36) Benzoic Acid	5.940	105	432417	166.807	ug/ml	94
37) 4-Chloroaniline	6.148	65	186026	144.149	ug/ml#	74
38) Hexachlorobutadiene	6.216	225	207353	158.551	ug/ml	99
39) p-Chloro-m-cresol	6.648	107	436295	155.233	ug/ml	92
40) 2-Methylnaphthalene	6.753	142	1025919	151.486	ug/ml	97
41) 1-Methylnaphthalene	6.847	115	322948	150.280	ug/ml	78
42) Hexachlorocyclopentadiene	6.921	237	271414	170.102	ug/ml	94
43) 2,4,6-Trichlorophenol	7.043	196	280426	162.190	ug/ml	95
44) 2,4,5-Trichlorophenol	7.077	196	297892	163.694	ug/ml	97
46) 2-Chloronaphthalene	7.225	162	910519	155.368	ug/ml	97
47) 2-Nitroaniline	7.344	138	354983	169.284	ug/ml	88
48) 1,4-Dinitrobenzene	7.475	168	160554	167.944	ug/ml	91
49) 1,3-Dinitrobenzene	7.551	168	176245	168.142	ug/ml	92
50) Dimethyl phthalate	7.549	163	1074872	162.096	ug/ml	100
51) Acenaphthylene	7.625	152	1542704	159.719	ug/ml	99
52) 2,6-Dinitrotoluene	7.588	165	250591	171.963	ug/ml	95
53) 1,2-Dinitrobenzene	7.637	168	111314	162.583	ug/ml	96
63) 3-Nitroaniline	7.750	138	315767	160.971	ug/ml	89
64) Acenaphthene	7.799	154	899541	146.093	ug/ml	99
65) 2,4-Dinitrophenol	7.844	184	179878	164.432	ug/ml	92
66) Dibenzofuran	7.966	168	1325430	147.732	ug/ml	93
67) 2,4-Dinitrotoluene	7.978	165	339926M2	162.596	ug/ml	
68) 4-Nitrophenol	7.946	65	260259	152.490	ug/ml#	84
69) 2,3,5,6-Tetrachlorophenol	8.057	232	248352	160.329	ug/ml	99
70) 2,3,4,6-Tetrachlorophenol	8.100	232	243559	155.502	ug/ml	98
71) Diethyl phthalate	8.236	149	1181759	154.266	ug/ml	99
72) Fluorene	8.299	166	1081361	149.907	ug/ml	99
73) 4-Chlorophenyl phenyl ...	8.313	204	463533	148.702	ug/ml	92

Data Path : I:\8270\SV103\181204nical\
Data File : ABNL9.d
Acq On : 5 Dec 2018 12:35 am
Operator : SV103:cb
Sample : IL2,32,,ABNL150 Lot#7797
Misc : wg1186012,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 05 17:27:07 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 17:24:49 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\181204nical\ABNL7.d
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74) 4-Nitroaniline	8.350	138	321060	165.921	ug/ml	80
75) 4,6-Dinitro-o-cresol	8.373	198	202264	161.610	ug/ml	95
76) NDPA/DPA	8.435	169	928993	152.509	ug/ml	99
77) Azobenzene	8.469	77	1158463	141.900	ug/ml	99
79) 4-Bromophenyl phenyl e...	8.785	248	253999	151.462	ug/ml	94
80) Hexachlorobenzene	8.836	284	283989	156.549	ug/ml	98
81) Pentachlorophenol	9.035	266	186227	162.134	ug/ml	97
88) Phenanthrene	9.225	178	1564538	147.354	ug/ml	99
89) Anthracene	9.276	178	1627055	154.042	ug/ml	99
90) Carbazole	9.447	167	1475615	150.681	ug/ml	98
91) Di-n-butylphthalate	9.830	149	1995050	159.176	ug/ml	100
92) Fluoranthene	10.384	202	1566386	150.652	ug/ml	98
93) Benzidine	10.546	184	1146930	160.832	ug/ml	100
94) Pyrene	10.609	202	1605580	148.942	ug/ml	98
96) Butyl benzyl phthalate	11.416	149	884567	159.284	ug/ml	96
104) Benzo(a)anthracene	12.067	228	1505088	149.779	ug/ml	100
105) 3,3'-Dichlorobenzidine	12.075	252	568602	155.505	ug/ml	97
106) Chrysene	12.118	228	1390290	146.513	ug/ml	99
107) Bis(2-ethylhexyl)phtha...	12.240	149	1269413	159.976	ug/ml	98
108) Di-n-octylphthalate	13.234	149	2200468	160.281	ug/ml	99
109) Benzo(b)fluoranthene	13.652	252	1348409	146.588	ug/ml#	96
110) Benzo(k)fluoranthene	13.698	252	1341444	145.206	ug/ml#	95
111) Benzo(a)pyrene	14.144	252	1332075	149.357	ug/ml#	94
113) Indeno(1,2,3-cd)pyrene	15.854	276	1258271	151.592	ug/mL#	92
114) Dibenzo(a,h)anthracene	15.905	278	1280208	150.969	ug/ml#	95
115) Benzo(ghi)perylene	16.235	276	1282698	145.762	ug/ml#	92

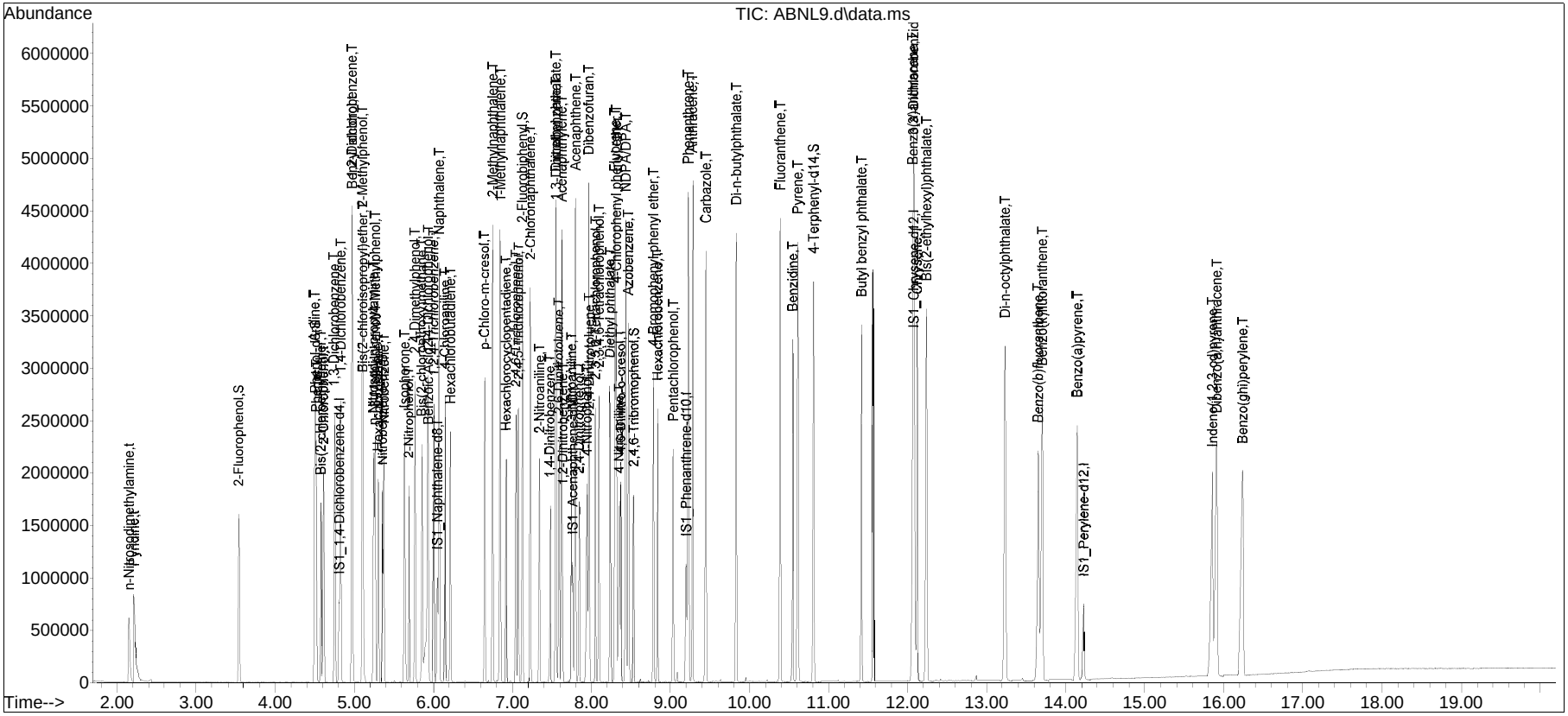
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181204nical\
Data File : ABNL9.d
Acq On : 5 Dec 2018 12:35 am
Operator : SV103:cb
Sample : IL2,32,,ABNL150 Lot#7797
Misc : wg1186012,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 05 17:27:07 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 17:24:49 2018
Response via : Initial Calibration

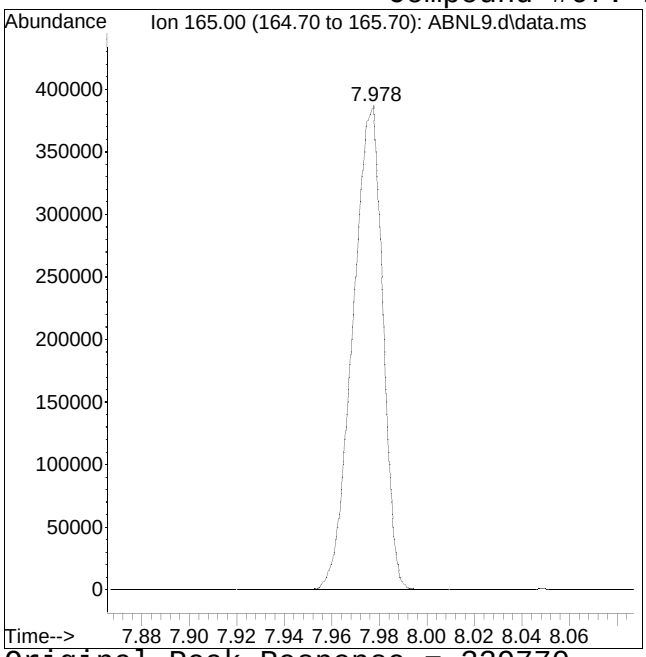
Sub List : ABNical - ABN ical sublistcal\ABNL7.d•

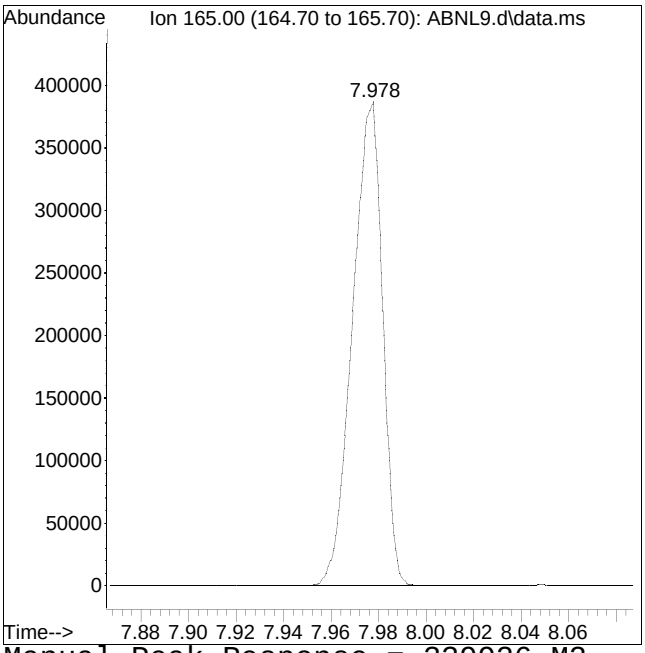


Manual Integration Report

Data Path : I:\8270\SV103\181204nical\QMethod : FS181204nSV103.m
Data File : ABNL9.d Operator : SV103:cb
Date Inj'd : 12/5/2018 12:35 am Instrument : SV103
Sample : IL2,32,,ABNL150 Lot#7797 Quant Date : 12/5/2018 5:26 pm

Compound #67: 2,4-Dinitrotoluene



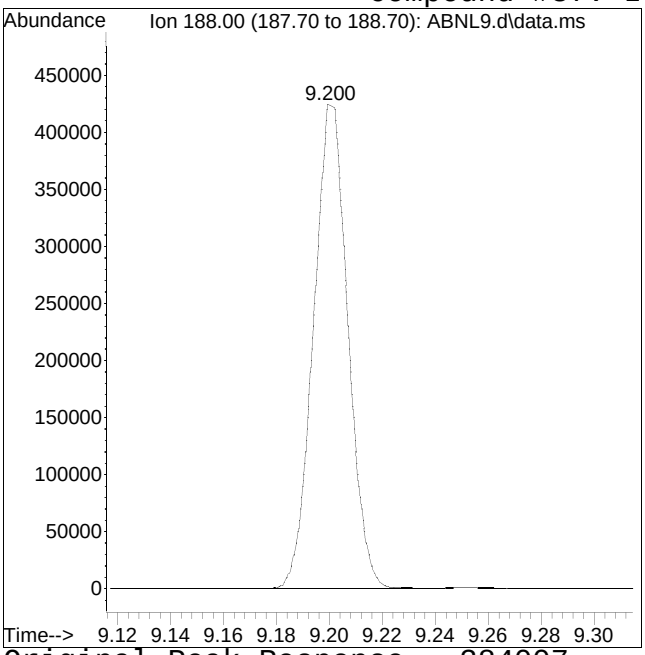


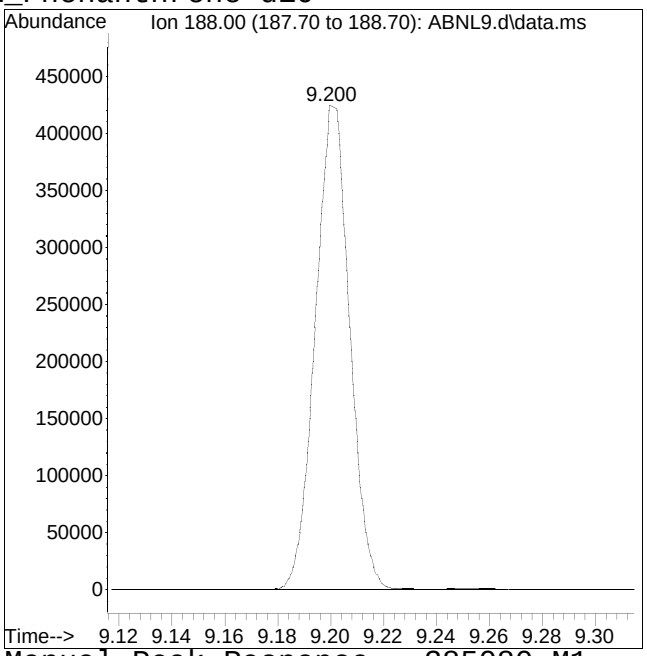
Original Peak Response = 339770 Manual Peak Response = 339926 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV103\181204nical\QMethod : FS181204nSV103.m
Data File : ABNL9.d Operator : SV103:cb
Date Inj'd : 12/5/2018 12:35 am Instrument : SV103
Sample : IL2,32,,ABNL150 Lot#7797 Quant Date : 12/5/2018 5:26 pm

Compound #87: IS1_Phenanthrene-d10





Original Peak Response = 384007 Manual Peak Response = 385080 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181204nical\
Data File : ABNL8.d
Acq On : 5 Dec 2018 1:00 am
Operator : SV103:cb
Sample : IL3,32,,ABNL100 Lot#7796
Misc : wg1186012,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 05 17:26:56 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 17:24:49 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\181204nical\ABNL7.d
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.807	152	77967	40.000	ug/ml	0.00
Standard Area 1 = 88720			Recovery = 87.88%			
34) IS1_Naphthalene-d8	6.051	136	351388	40.000	ug/ml	0.00
Standard Area 1 = 394538			Recovery = 89.06%			
62) IS1_Acenaphthene-d10	7.762	164	170175	40.000	ug/ml	0.00
Standard Area 1 = 185698			Recovery = 91.64%			
87) IS1_Phenanthrene-d10	9.200	188	326703M2	40.000	ug/ml	0.00
Standard Area 1 = 353061			Recovery = 92.53%			
103) IS1_Chrysene-d12	12.075	240	293359	40.000	ug/ml	0.00
Standard Area 1 = 306161			Recovery = 95.82%			
112) IS1_Perylene-d12	14.220	264	281281	40.000	ug/ml	0.00
Standard Area 1 = 309194			Recovery = 90.97%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.539	112	257651	99.539	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 199.08%#			
7) Phenol-d6	4.500	99	320614	98.570	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 197.14%#			
19) Nitrobenzene-d5	5.355	82	304712	101.257	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 405.03%#			
45) 2-Fluorobiphenyl	7.125	172	575686	105.123	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 420.49%#			
78) 2,4,6-Tribromophenol	8.532	330	79002	111.944	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 223.89%#			
95) 4-Terphenyl-d14	10.808	244	668755	105.130	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 420.52%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.150	74	159856	92.601	ug/ml	90
3) Pyridine	2.215	79	270486	100.216	ug/ml	91
5) Aniline	4.494	93	406680	97.210	ug/ml	96
6) 2-Chlorophenol	4.608	128	287498	100.421	ug/ml	93
8) Phenol	4.514	94	373663	97.649	ug/ml#	98
9) Bis(2-chloroethyl)ether	4.574	93	255517	93.746	ug/ml	97
10) 1,3-Dichlorobenzene	4.747	146	300726	99.763	ug/ml	97
11) 1,4-Dichlorobenzene	4.821	146	310345	99.843	ug/ml	96
12) 1,2-Dichlorobenzene	4.969	146	295209	99.860	ug/ml	97
13) Benzyl alcohol	4.972	79	230531	101.717	ug/ml	94
14) Bis(2-chloroisopropyl)...	5.105	45	479784	85.876	ug/ml	99

Data Path : I:\8270\SV103\181204nical\
Data File : ABNL8.d
Acq On : 5 Dec 2018 1:00 am
Operator : SV103:cb
Sample : IL3,32,,ABNL100 Lot#7796
Misc : wg1186012,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 05 17:26:56 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 17:24:49 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\181204nical\ABNL7.d
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	5.099	108	255689	100.166	ug/ml	98
16) Hexachloroethane	5.298	117	117889	99.195	ug/ml	98
17) n-Nitrosodi-n-propylamine	5.239	70	200479	99.046	ug/ml	95
18) 3-Methylphenol/4-Methy...	5.256	108	268396	100.803	ug/ml	99
20) Nitrobenzene	5.375	77	303917	99.858	ug/ml	95
21) Isophorone	5.628	82	530356	102.646	ug/ml	97
22) 2-Nitrophenol	5.688	139	160287	108.584	ug/ml#	88
23) 2,4-Dimethylphenol	5.767	107	265559	103.120	ug/ml	92
24) Bis(2-chloroethoxy)met...	5.852	93	325227	98.180	ug/ml	98
25) 2,4-Dichlorophenol	5.932	162	225641	106.877	ug/ml	97
26) 1,2,4-Trichlorobenzene	6.003	180	240657	103.800	ug/ml	98
35) Naphthalene	6.071	128	855204	99.053	ug/ml	100
36) Benzoic Acid	5.912	105	237688	108.878	ug/ml	95
37) 4-Chloroaniline	6.145	65	105789	97.342	ug/ml	74
38) Hexachlorobutadiene	6.216	225	116487	105.768	ug/ml	98
39) p-Chloro-m-cresol	6.645	107	249648	105.476	ug/ml	91
40) 2-Methylnaphthalene	6.750	142	583108	102.242	ug/ml	96
41) 1-Methylnaphthalene	6.847	115	184264	101.820	ug/ml	78
42) Hexachlorocyclopentadiene	6.918	237	149815	111.494	ug/ml	94
43) 2,4,6-Trichlorophenol	7.043	196	160359	110.134	ug/ml	94
44) 2,4,5-Trichlorophenol	7.074	196	169542	110.630	ug/ml	97
46) 2-Chloronaphthalene	7.222	162	520207	105.407	ug/ml	97
47) 2-Nitroaniline	7.338	138	201261	113.970	ug/ml	88
48) 1,4-Dinitrobenzene	7.472	168	90309	112.175	ug/ml	94
49) 1,3-Dinitrobenzene	7.546	168	100171	113.481	ug/ml	93
50) Dimethyl phthalate	7.543	163	613970	109.947	ug/ml	100
51) Acenaphthylene	7.620	152	884922	108.793	ug/ml	99
52) 2,6-Dinitrotoluene	7.583	165	144923	118.094	ug/ml	93
53) 1,2-Dinitrobenzene	7.631	168	65230	113.134	ug/ml	93
63) 3-Nitroaniline	7.742	138	180797	110.701	ug/ml#	90
64) Acenaphthene	7.793	154	510355	99.555	ug/ml	98
65) 2,4-Dinitrophenol	7.839	184	101476	111.417	ug/ml	93
66) Dibenzofuran	7.964	168	759247	101.644	ug/ml	95
67) 2,4-Dinitrotoluene	7.972	165	199833M2	114.808	ug/ml	
68) 4-Nitrophenol	7.938	65	149200	104.999	ug/ml	88
69) 2,3,5,6-Tetrachlorophenol	8.054	232	141078	109.392	ug/ml	98
70) 2,3,4,6-Tetrachlorophenol	8.097	232	140335	107.617	ug/ml	98
71) Diethyl phthalate	8.233	149	680583	106.709	ug/ml	99
72) Fluorene	8.296	166	620312	103.286	ug/ml	99
73) 4-Chlorophenyl phenyl ...	8.313	204	267896	103.225	ug/ml	92

Data Path : I:\8270\SV103\181204nical\
Data File : ABNL8.d
Acq On : 5 Dec 2018 1:00 am
Operator : SV103:cb
Sample : IL3,32,,ABNL100 Lot#7796
Misc : wg1186012,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 05 17:26:56 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 17:24:49 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\181204nical\ABNL7.d
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74)	4-Nitroaniline	8.339	138	184276	114.384	ug/ml	81
75)	4,6-Dinitro-o-cresol	8.364	198	116051	111.373	ug/ml	96
76)	NDPA/DPA	8.432	169	535487	105.587	ug/ml	98
77)	Azobenzene	8.464	77	682337	100.388	ug/ml	99
79)	4-Bromophenyl phenyl e...	8.785	248	145379	104.125	ug/ml	94
80)	Hexachlorobenzene	8.833	284	163398	108.187	ug/ml	97
81)	Pentachlorophenol	9.032	266	105301	110.114	ug/ml	97
88)	Phenanthrene	9.222	178	900328	99.948	ug/ml	99
89)	Anthracene	9.271	178	929699	103.748	ug/ml	99
90)	Carbazole	9.444	167	865967	104.228	ug/ml	98
91)	Di-n-butylphthalate	9.828	149	1156971	108.804	ug/ml	99
92)	Fluoranthene	10.379	202	912478	103.442	ug/ml	98
93)	Benzidine	10.544	184	643399	106.344	ug/ml	100
94)	Pyrene	10.606	202	943623	103.176	ug/ml	100
96)	Butyl benzyl phthalate	11.413	149	508748	107.980	ug/ml	97
104)	Benzo(a)anthracene	12.064	228	859558	99.568	ug/ml	99
105)	3,3'-Dichlorobenzidine	12.069	252	328871	104.694	ug/ml	99
106)	Chrysene	12.112	228	807323	99.032	ug/ml	100
107)	Bis(2-ethylhexyl)phtha...	12.237	149	737186	108.140	ug/ml	98
108)	Di-n-octylphthalate	13.232	149	1258151	106.674	ug/ml	99
109)	Benzo(b)fluoranthene	13.646	252	777851	98.431	ug/ml#	96
110)	Benzo(k)fluoranthene	13.689	252	798094	100.560	ug/ml#	96
111)	Benzo(a)pyrene	14.135	252	775583	101.224	ug/ml#	95
113)	Indeno(1,2,3-cd)pyrene	15.840	276	728744	103.333	ug/mL#	92
114)	Dibenzo(a,h)anthracene	15.894	278	737102	102.305	ug/ml#	95
115)	Benzo(ghi)perylene	16.218	276	748572	100.119	ug/ml#	92

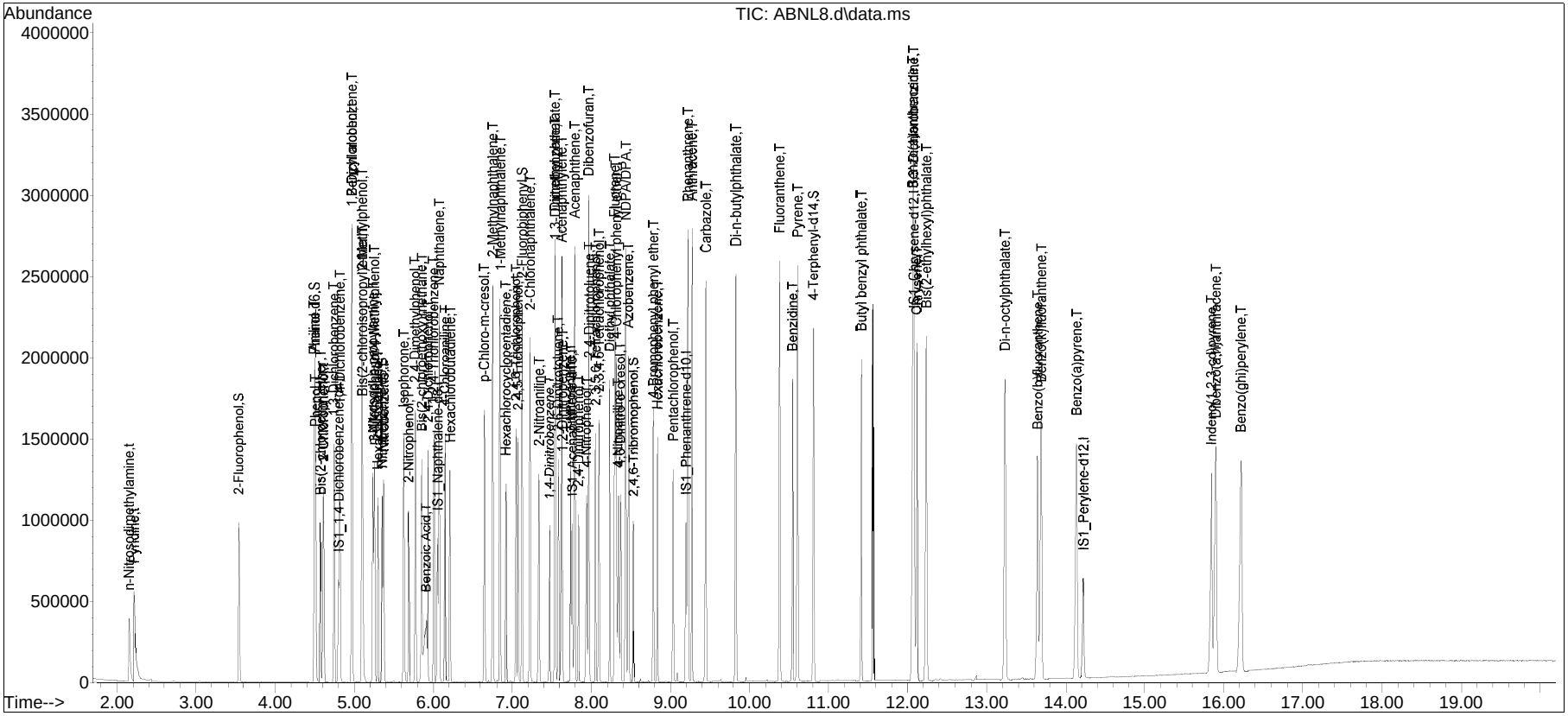
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181204nical\
Data File : ABNL8.d
Acq On : 5 Dec 2018 1:00 am
Operator : SV103:cb
Sample : IL3,32,,ABNL100 Lot#7796
Misc : wg1186012,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 05 17:26:56 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 17:24:49 2018
Response via : Initial Calibration

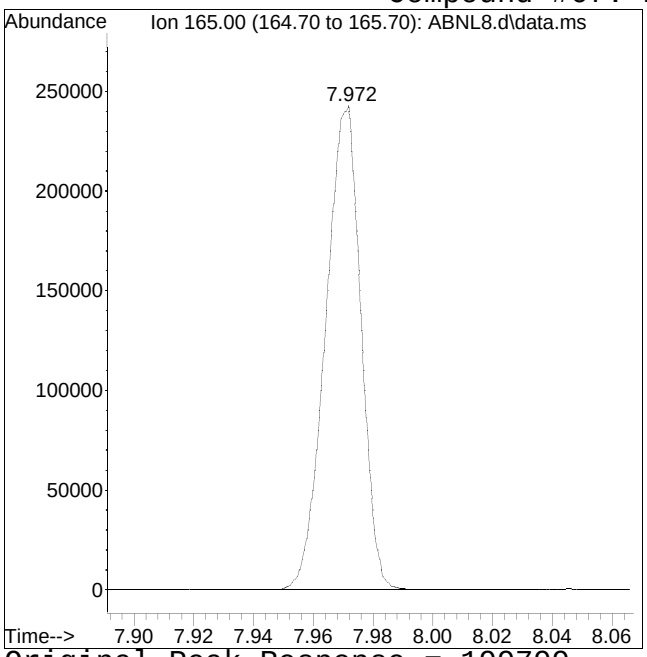
Sub List : ABNical - ABN ical sublistcal\ABNL7.d•

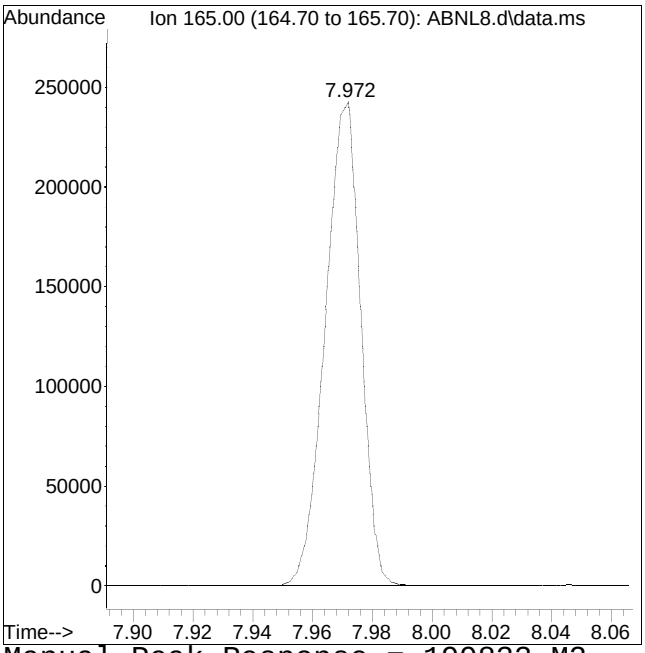


Manual Integration Report

Data Path : I:\8270\SV103\181204nical\QMethod : FS181204nSV103.m
Data File : ABNL8.d Operator : SV103:cb
Date Inj'd : 12/5/2018 1:00 am Instrument : SV103
Sample : IL3,32,,ABNL100 Lot#7796 Quant Date : 12/5/2018 5:26 pm

Compound #67: 2,4-Dinitrotoluene



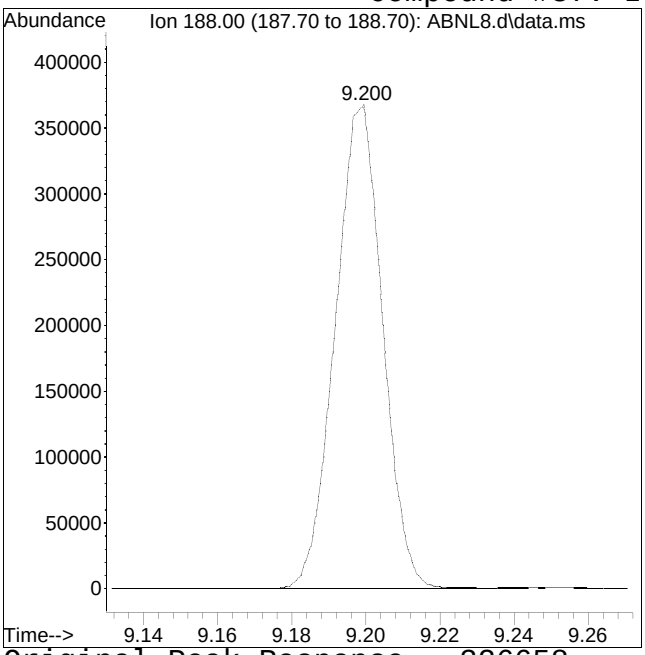


Original Peak Response = 199799 Manual Peak Response = 199833 M2
M2 = Peak not found by automatic integration algorithm.

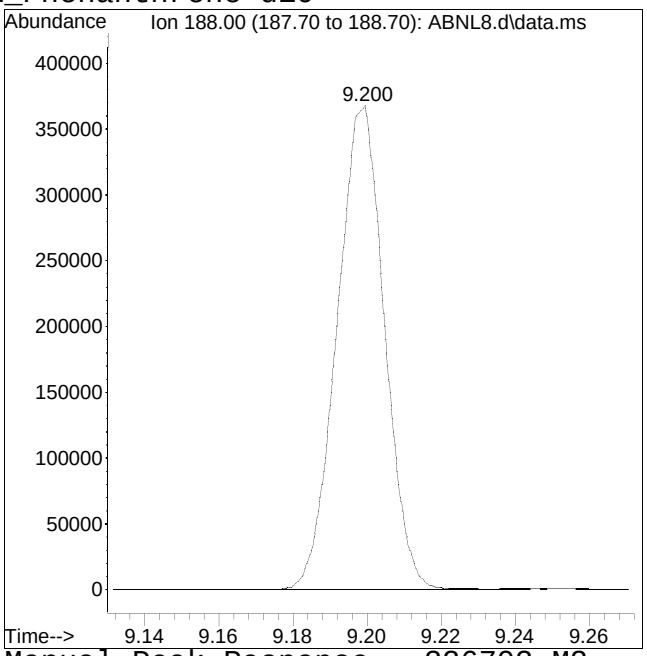
Manual Integration Report

Data Path : I:\8270\SV103\181204nical\QMethod : FS181204nSV103.m
Data File : ABNL8.d Operator : SV103:cb
Date Inj'd : 12/5/2018 1:00 am Instrument : SV103
Sample : IL3,32,,ABNL100 Lot#7796 Quant Date : 12/5/2018 5:26 pm

Compound #87: IS1_Phenanthrene-d10



Original Peak Response = 326658



Manual Peak Response = 326703 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181204nical\
Data File : ABNL7.d
Acq On : 5 Dec 2018 1:26 am
Operator : SV103:cb
Sample : IL4,32,,ABNL50 Lot#7795
Misc : wg1186012,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 05 17:26:46 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 17:24:49 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\181204nical\ABNL7.d
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.804	152	88720	40.000	ug/ml	0.00
Standard Area 1 = 88720			Recovery = 100.00%			
34) IS1_Naphthalene-d8	6.049	136	394538	40.000	ug/ml	0.00
Standard Area 1 = 394538			Recovery = 100.00%			
62) IS1_Acenaphthene-d10	7.762	164	185698	40.000	ug/ml	0.00
Standard Area 1 = 185698			Recovery = 100.00%			
87) IS1_Phenanthrene-d10	9.197	188	353061M2	40.000	ug/ml	0.00
Standard Area 1 = 353061			Recovery = 100.00%			
103) IS1_Chrysene-d12	12.072	240	306161	40.000	ug/ml	0.00
Standard Area 1 = 306161			Recovery = 100.00%			
112) IS1_Perylene-d12	14.221	264	309194	40.000	ug/ml	0.00
Standard Area 1 = 309194			Recovery = 100.00%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.537	112	143822	48.829	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 97.66%			
7) Phenol-d6	4.497	99	179937	48.615	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 97.23%			
19) Nitrobenzene-d5	5.355	82	167916	49.036	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 196.14%#			
45) 2-Fluorobiphenyl	7.123	172	313781	51.031	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 204.12%#			
78) 2,4,6-Tribromophenol	8.529	330	40422	52.489	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 104.98%			
95) 4-Terphenyl-d14	10.805	244	340989	49.602	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 198.41%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.147	74	88824	45.217	ug/ml	90
3) Pyridine	2.218	79	149431	48.654	ug/ml	92
5) Aniline	4.491	93	227778	47.847	ug/ml	97
6) 2-Chlorophenol	4.605	128	161733	49.645	ug/ml	94
8) Phenol	4.511	94	208578	47.901	ug/ml#	96
9) Bis(2-chloroethyl)ether	4.571	93	145508	46.915	ug/ml	96
10) 1,3-Dichlorobenzene	4.747	146	168831	49.220	ug/ml	96
11) 1,4-Dichlorobenzene	4.821	146	171976	48.622	ug/ml	97
12) 1,2-Dichlorobenzene	4.969	146	164246	48.825	ug/ml	97
13) Benzyl alcohol	4.969	79	126344	48.990	ug/ml	93
14) Bis(2-chloroisopropyl)...	5.105	45	275121	43.275	ug/ml	97

Data Path : I:\8270\SV103\181204nical\
Data File : ABNL7.d
Acq On : 5 Dec 2018 1:26 am
Operator : SV103:cb
Sample : IL4,32,,ABNL50 Lot#7795
Misc : wg1186012,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 05 17:26:46 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 17:24:49 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\181204nical\ABNL7.d
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	5.097	108	142066	48.909	ug/ml	98
16) Hexachloroethane	5.298	117	65022	48.080	ug/ml	98
17) n-Nitrosodi-n-propylamine	5.236	70	111876	48.573	ug/ml	96
18) 3-Methylphenol/4-Methy...	5.256	108	149508	49.346	ug/ml	99
20) Nitrobenzene	5.372	77	167871	48.472	ug/ml	96
21) Isophorone	5.625	82	290935	49.483	ug/ml	97
22) 2-Nitrophenol	5.688	139	88653	52.778	ug/ml#	88
23) 2,4-Dimethylphenol	5.764	107	145220	49.556	ug/ml	92
24) Bis(2-chloroethoxy)met...	5.850	93	183702	48.735	ug/ml	99
25) 2,4-Dichlorophenol	5.929	162	122533	51.005	ug/ml	96
26) 1,2,4-Trichlorobenzene	6.003	180	132175	50.100	ug/ml	98
35) Naphthalene	6.068	128	476263	49.130	ug/ml	100
36) Benzoic Acid	5.889	105	123579	50.417	ug/ml	95
37) 4-Chloroaniline	6.142	65	59225	48.536	ug/ml	73
38) Hexachlorobutadiene	6.213	225	62136	50.248	ug/ml	98
39) p-Chloro-m-cresol	6.645	107	134433	50.586	ug/ml	91
40) 2-Methylnaphthalene	6.750	142	320253	50.012	ug/ml	97
41) 1-Methylnaphthalene	6.844	115	101259	49.834	ug/ml	79
42) Hexachlorocyclopentadiene	6.918	237	78992	52.357	ug/ml	94
43) 2,4,6-Trichlorophenol	7.040	196	86604	52.974	ug/ml	92
44) 2,4,5-Trichlorophenol	7.071	196	91556	53.208	ug/ml	96
46) 2-Chloronaphthalene	7.219	162	280938	50.699	ug/ml	97
47) 2-Nitroaniline	7.336	138	105151	53.032	ug/ml	89
48) 1,4-Dinitrobenzene	7.469	168	46988	51.982	ug/ml	93
49) 1,3-Dinitrobenzene	7.543	168	53049	53.525	ug/ml	93
50) Dimethyl phthalate	7.540	163	327818	52.284	ug/ml	99
51) Acenaphthylene	7.620	152	474651	51.972	ug/ml	99
52) 2,6-Dinitrotoluene	7.580	165	76049	55.193	ug/ml	95
53) 1,2-Dinitrobenzene	7.626	168	33582	51.874	ug/ml	97
63) 3-Nitroaniline	7.739	138	95646	53.668	ug/ml#	89
64) Acenaphthene	7.793	154	273507	48.893	ug/ml	99
65) 2,4-Dinitrophenol	7.836	184	51135	51.451	ug/ml	93
66) Dibenzofuran	7.961	168	406818	49.910	ug/ml	95
67) 2,4-Dinitrotoluene	7.969	165	102805M2	54.126	ug/ml	
68) 4-Nitrophenol	7.935	65	77365	49.894	ug/ml	89
69) 2,3,5,6-Tetrachlorophenol	8.055	232	72204	51.307	ug/ml	97
70) 2,3,4,6-Tetrachlorophenol	8.094	232	72550	50.985	ug/ml	98
71) Diethyl phthalate	8.231	149	350846	50.411	ug/ml	99
72) Fluorene	8.293	166	329056	50.210	ug/ml	99
73) 4-Chlorophenyl phenyl ...	8.310	204	139332	49.199	ug/ml	93

Data Path : I:\8270\SV103\181204nical\
Data File : ABNL7.d
Acq On : 5 Dec 2018 1:26 am
Operator : SV103:cb
Sample : IL4,32,,ABNL50 Lot#7795
Misc : wg1186012,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 05 17:26:46 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 17:24:49 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\181204nical\ABNL7.d
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74)	4-Nitroaniline	8.333	138	95543	54.348	ug/ml	89
75)	4,6-Dinitro-o-cresol	8.359	198	58196	51.181	ug/ml	98
76)	NDPA/DPA	8.430	169	280317	50.653	ug/ml	98
77)	Azobenzene	8.464	77	363748	49.042	ug/ml	99
79)	4-Bromophenyl phenyl e...	8.782	248	75906	49.821	ug/ml	94
80)	Hexachlorobenzene	8.830	284	83443	50.630	ug/ml	96
81)	Pentachlorophenol	9.029	266	55004	52.710	ug/ml	100
88)	Phenanthrene	9.220	178	473064	48.596	ug/ml	99
89)	Anthracene	9.271	178	483854	49.964	ug/ml	99
90)	Carbazole	9.441	167	452798	50.430	ug/ml	99
91)	Di-n-butylphthalate	9.825	149	595689	51.838	ug/ml	99
92)	Fluoranthene	10.379	202	470231	49.327	ug/ml	97
93)	Benzidine	10.541	184	318316	48.685	ug/ml	100
94)	Pyrene	10.603	202	488199	49.395	ug/ml	99
96)	Butyl benzyl phthalate	11.410	149	257142	50.503	ug/ml	97
104)	Benzo(a)anthracene	12.058	228	446148	49.519	ug/ml	99
105)	3,3'-Dichlorobenzidine	12.067	252	171240	52.234	ug/ml	99
106)	Chrysene	12.109	228	420754	49.455	ug/ml	100
107)	Bis(2-ethylhexyl)phtha...	12.237	149	371093	52.160	ug/ml	99
108)	Di-n-octylphthalate	13.229	149	642072	52.162	ug/ml	100
109)	Benzo(b)fluoranthene	13.641	252	425411	51.581	ug/ml#	96
110)	Benzo(k)fluoranthene	13.684	252	420068	50.715	ug/ml#	95
111)	Benzo(a)pyrene	14.130	252	415374	51.945	ug/ml#	95
113)	Indeno(1,2,3-cd)pyrene	15.834	276	394981	50.951	ug/mL#	92
114)	Dibenzo(a,h)anthracene	15.886	278	402345	50.802	ug/ml#	94
115)	Benzo(ghi)perylene	16.210	276	415272	50.527	ug/ml#	91

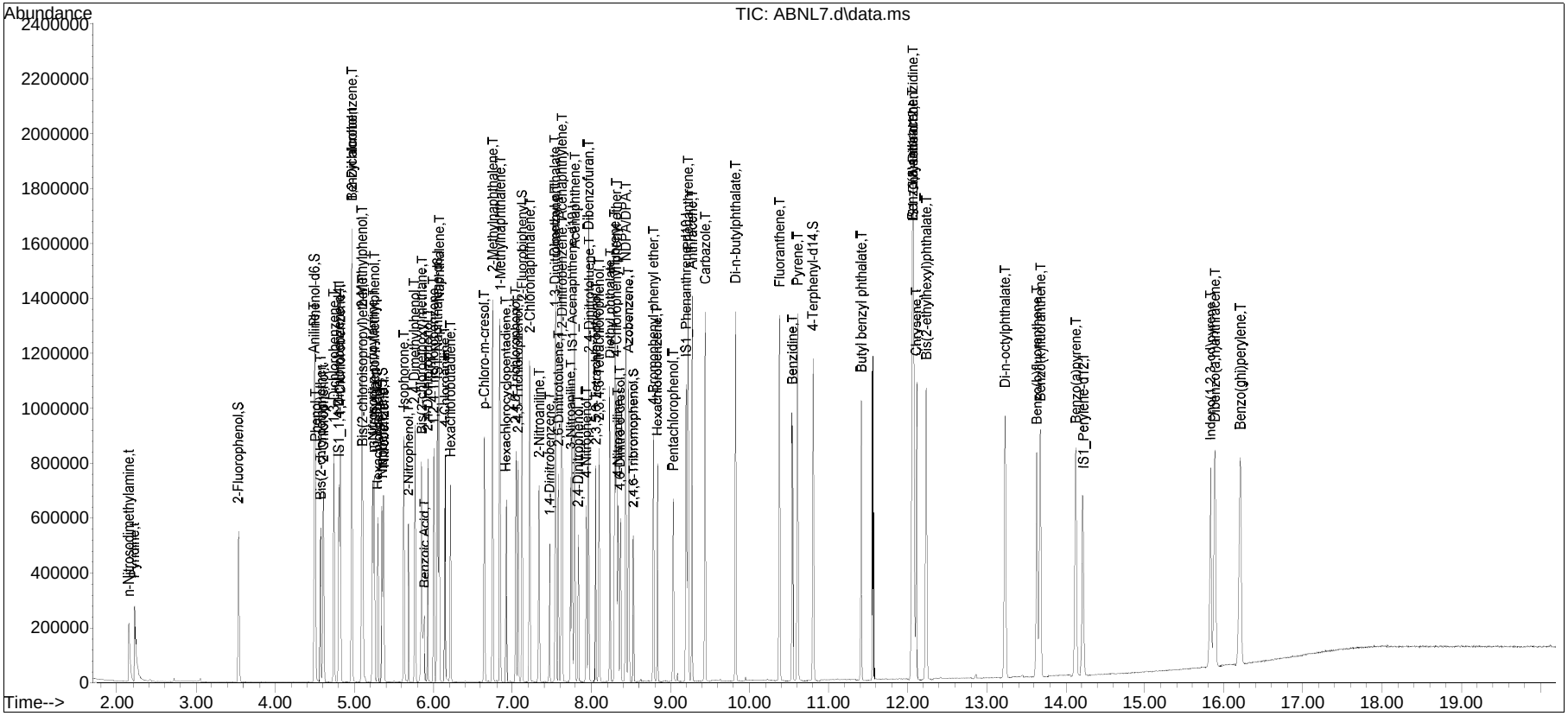
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181204nical\
Data File : ABNL7.d
Acq On : 5 Dec 2018 1:26 am
Operator : SV103:cb
Sample : IL4,32,,ABNL50 Lot#7795
Misc : wg1186012,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 05 17:26:46 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 17:24:49 2018
Response via : Initial Calibration

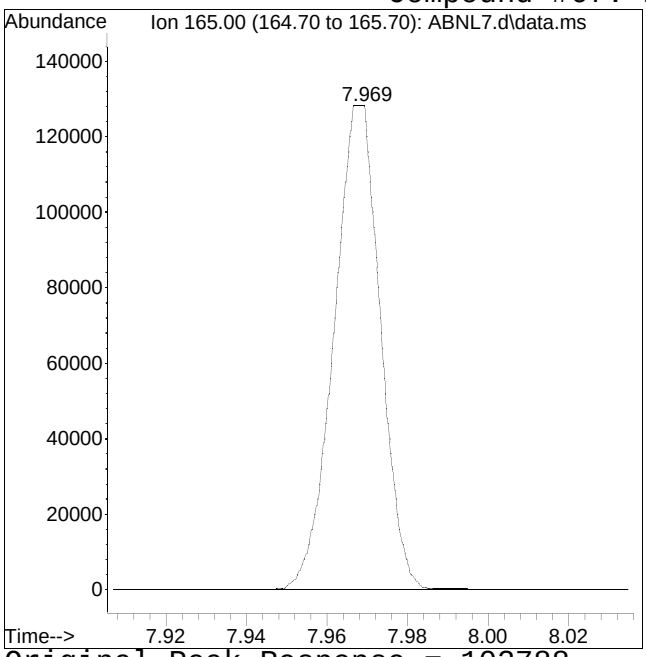
Sub List : ABNical - ABN ical sublistcal\ABNL7.d•

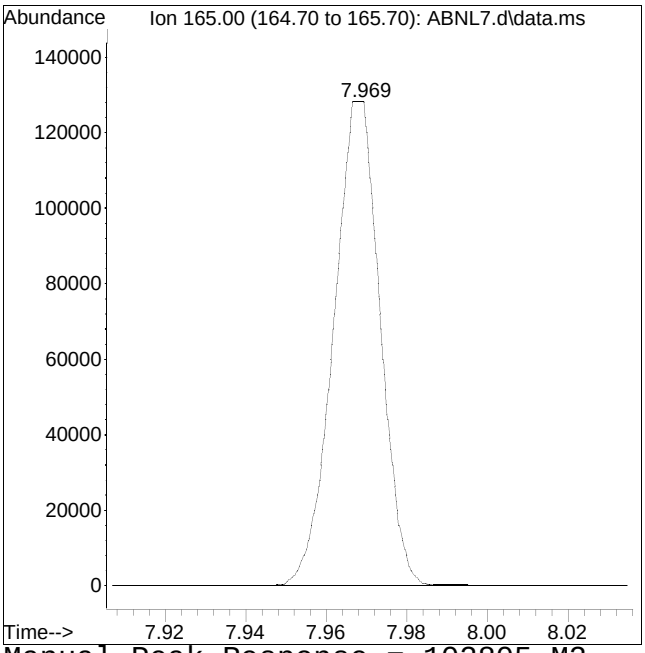


Manual Integration Report

Data Path : I:\8270\SV103\181204nical\QMethod : FS181204nSV103.m
Data File : ABNL7.d Operator : SV103:cb
Date Inj'd : 12/5/2018 1:26 am Instrument : SV103
Sample : IL4,32,,ABNL50 Lot#7795 Quant Date : 12/5/2018 5:26 pm

Compound #67: 2,4-Dinitrotoluene



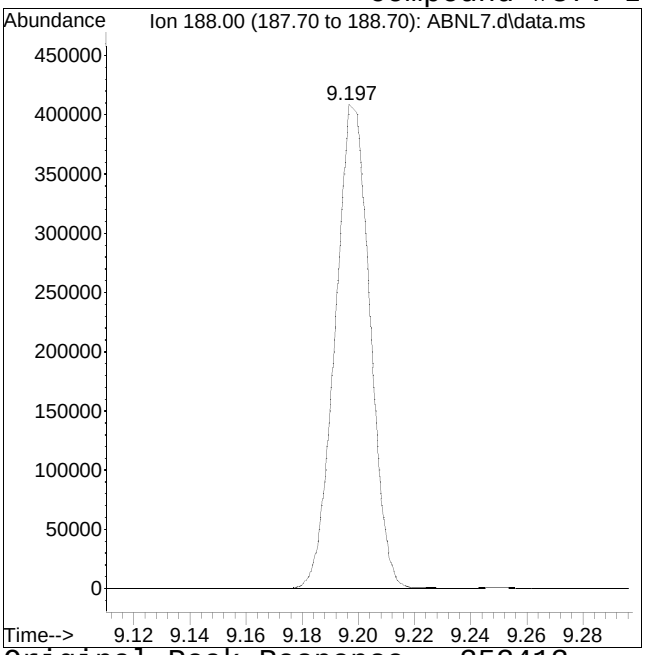


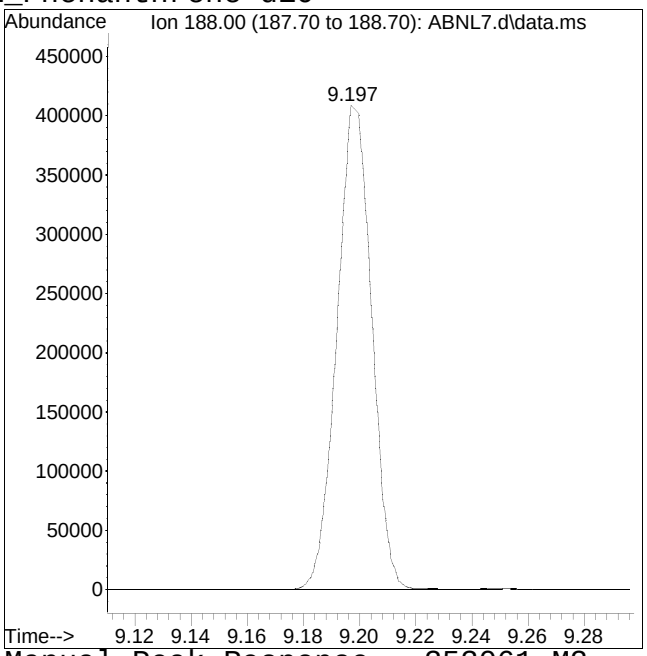
Original Peak Response = 102788 Manual Peak Response = 102805 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV103\181204nical\QMethod : FS181204nSV103.m
Data File : ABNL7.d Operator : SV103:cb
Date Inj'd : 12/5/2018 1:26 am Instrument : SV103
Sample : IL4,32,,ABNL50 Lot#7795 Quant Date : 12/5/2018 5:26 pm

Compound #87: IS1_Phenanthrene-d10





Original Peak Response = 352413 Manual Peak Response = 353061 M2
M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181204nical\
Data File : ABNL6.d
Acq On : 5 Dec 2018 1:51 am
Operator : SV103:cb
Sample : IL5,32,,ABNL20 Lot#7794
Misc : wg1186012,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 05 17:26:36 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 17:24:49 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\181204nical\ABNL7.d
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.804	152	81667	40.000	ug/ml	0.00
Standard Area 1 = 88720			Recovery = 92.05%			
34) IS1_Naphthalene-d8	6.049	136	355884	40.000	ug/ml	0.00
Standard Area 1 = 394538			Recovery = 90.20%			
62) IS1_Acenaphthene-d10	7.759	164	162951	40.000	ug/ml	0.00
Standard Area 1 = 185698			Recovery = 87.75%			
87) IS1_Phenanthrene-d10	9.197	188	311049M2	40.000	ug/ml	0.00
Standard Area 1 = 353061			Recovery = 88.10%			
103) IS1_Chrysene-d12	12.070	240	282970	40.000	ug/ml #	0.00
Standard Area 1 = 306161			Recovery = 92.43%			
112) IS1_Perylene-d12	14.215	264	290000	40.000	ug/ml	0.00
Standard Area 1 = 309194			Recovery = 93.79%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.540	112	54188	19.986	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 39.97%			
7) Phenol-d6	4.494	99	67338	19.765	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 39.53%			
19) Nitrobenzene-d5	5.352	82	60160	19.086	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 76.34%			
45) 2-Fluorobiphenyl	7.123	172	111820	20.161	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 80.64%			
78) 2,4,6-Tribromophenol	8.526	330	13283	19.656	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 39.31%			
95) 4-Terphenyl-d14	10.802	244	121953	20.136	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 80.54%			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.159	74	34313	18.976	ug/ml#	90
3) Pyridine	2.238	79	58374	20.648	ug/ml	92
5) Aniline	4.491	93	84873	19.368	ug/ml	93
6) 2-Chlorophenol	4.605	128	60042	20.022	ug/ml	95
8) Phenol	4.509	94	78664	19.626	ug/ml#	100
9) Bis(2-chloroethyl)ether	4.571	93	54412	19.059	ug/ml	98
10) 1,3-Dichlorobenzene	4.747	146	63332	20.058	ug/ml	97
11) 1,4-Dichlorobenzene	4.821	146	63683	19.560	ug/ml	97
12) 1,2-Dichlorobenzene	4.969	146	60362	19.493	ug/ml	96
13) Benzyl alcohol	4.969	79	46305	19.505	ug/ml	94
14) Bis(2-chloroisopropyl)...	5.102	45	106772	18.245	ug/ml	97

Data Path : I:\8270\SV103\181204nical\
Data File : ABNL6.d
Acq On : 5 Dec 2018 1:51 am
Operator : SV103:cb
Sample : IL5,32,,ABNL20 Lot#7794
Misc : wg1186012,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 05 17:26:36 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 17:24:49 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\181204nical\ABNL7.d
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	5.097	108	52714	19.715	ug/ml	98
16) Hexachloroethane	5.298	117	23717	19.052	ug/ml	98
17) n-Nitrosodi-n-propylamine	5.233	70	41634	19.637	ug/ml	97
18) 3-Methylphenol/4-Methy...	5.253	108	55137	19.770	ug/ml	100
20) Nitrobenzene	5.372	77	61785	19.381	ug/ml	96
21) Isophorone	5.625	82	106959	19.763	ug/ml	98
22) 2-Nitrophenol	5.688	139	31184	20.168	ug/ml#	89
23) 2,4-Dimethylphenol	5.764	107	53063	19.671	ug/ml	91
24) Bis(2-chloroethoxy)met...	5.850	93	68016	19.603	ug/ml#	97
25) 2,4-Dichlorophenol	5.929	162	43883	19.844	ug/ml	97
26) 1,2,4-Trichlorobenzene	6.000	180	47650	19.621	ug/ml	98
35) Naphthalene	6.068	128	172437	19.720	ug/ml	100
36) Benzoic Acid	5.858	105	39392	17.816	ug/ml	94
37) 4-Chloroaniline	6.142	65	20848	18.941	ug/ml#	71
38) Hexachlorobutadiene	6.213	225	22399	20.081	ug/ml	98
39) p-Chloro-m-cresol	6.642	107	48198	20.106	ug/ml	93
40) 2-Methylnaphthalene	6.750	142	117117	20.276	ug/ml	97
41) 1-Methylnaphthalene	6.844	115	36373	19.845	ug/ml	79
42) Hexachlorocyclopentadiene	6.918	237	26809	19.700	ug/ml	93
43) 2,4,6-Trichlorophenol	7.040	196	29946	20.307	ug/ml	94
44) 2,4,5-Trichlorophenol	7.071	196	32258	20.783	ug/ml	95
46) 2-Chloronaphthalene	7.219	162	99959	19.998	ug/ml	97
47) 2-Nitroaniline	7.336	138	35211	19.687	ug/ml	91
48) 1,4-Dinitrobenzene	7.466	168	15928	19.535	ug/ml	97
49) 1,3-Dinitrobenzene	7.540	168	17721	19.822	ug/ml	98
50) Dimethyl phthalate	7.535	163	114975	20.329	ug/ml	99
51) Acenaphthylene	7.617	152	168236	20.422	ug/ml	99
52) 2,6-Dinitrotoluene	7.577	165	26148	21.038	ug/ml	98
53) 1,2-Dinitrobenzene	7.623	168	12122	20.759	ug/ml	95
63) 3-Nitroaniline	7.736	138	33123	21.180	ug/ml#	93
64) Acenaphthene	7.790	154	98147	19.994	ug/ml	99
65) 2,4-Dinitrophenol	7.833	184	16880	19.355	ug/ml	94
66) Dibenzofuran	7.961	168	141450	19.776	ug/ml	96
67) 2,4-Dinitrotoluene	7.967	165	35557M2	21.334	ug/ml	
68) 4-Nitrophenol	7.930	65	27496	20.208	ug/ml	89
69) 2,3,5,6-Tetrachlorophenol	8.052	232	25099	20.324	ug/ml	98
70) 2,3,4,6-Tetrachlorophenol	8.094	232	25211	20.190	ug/ml	99
71) Diethyl phthalate	8.225	149	123347	20.197	ug/ml	99
72) Fluorene	8.290	166	114499	19.910	ug/ml	98
73) 4-Chlorophenyl phenyl ...	8.310	204	49059	19.741	ug/ml	95

Data Path : I:\8270\SV103\181204nical\
Data File : ABNL6.d
Acq On : 5 Dec 2018 1:51 am
Operator : SV103:cb
Sample : IL5,32,,ABNL20 Lot#7794
Misc : wg1186012,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 05 17:26:36 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 17:24:49 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\181204nical\ABNL7.d
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74)	4-Nitroaniline	8.327	138	32478	21.054	ug/ml	92
75)	4,6-Dinitro-o-cresol	8.356	198	19508	19.552	ug/ml	99
76)	NDPA/DPA	8.427	169	98048	20.190	ug/ml	97
77)	Azobenzene	8.461	77	131240	20.165	ug/ml	99
79)	4-Bromophenyl phenyl e...	8.782	248	26636	19.923	ug/ml	95
80)	Hexachlorobenzene	8.830	284	28656	19.815	ug/ml	95
81)	Pentachlorophenol	9.029	266	18188	19.863	ug/ml	99
88)	Phenanthrene	9.220	178	168492	19.646	ug/ml	99
89)	Anthracene	9.268	178	168698	19.773	ug/ml	98
90)	Carbazole	9.438	167	162182	20.503	ug/ml	99
91)	Di-n-butylphthalate	9.825	149	206681	20.415	ug/ml	99
92)	Fluoranthene	10.376	202	170848	20.343	ug/ml	96
93)	Benzidine	10.538	184	118763	20.618	ug/ml	100
94)	Pyrene	10.601	202	178970	20.554	ug/ml	99
96)	Butyl benzyl phthalate	11.410	149	90773	20.236	ug/ml	99
104)	Benzo(a)anthracene	12.055	228	162460	19.510	ug/ml	99
105)	3,3'-Dichlorobenzidine	12.061	252	61281	20.225	ug/ml#	97
106)	Chrysene	12.104	228	156972	19.962	ug/ml	100
107)	Bis(2-ethylhexyl)phtha...	12.234	149	130754	19.885	ug/ml	98
108)	Di-n-octylphthalate	13.226	149	225326	19.806	ug/ml	99
109)	Benzo(b)fluoranthene	13.632	252	155146	20.353	ug/ml#	95
110)	Benzo(k)fluoranthene	13.675	252	156503	20.443	ug/ml#	94
111)	Benzo(a)pyrene	14.121	252	154347	20.884	ug/ml#	93
113)	Indeno(1,2,3-cd)pyrene	15.823	276	144969	19.938	ug/mL#	90
114)	Dibenzo(a,h)anthracene	15.877	278	149308	20.100	ug/ml#	94
115)	Benzo(ghi)perylene	16.198	276	154194	20.003	ug/ml#	89

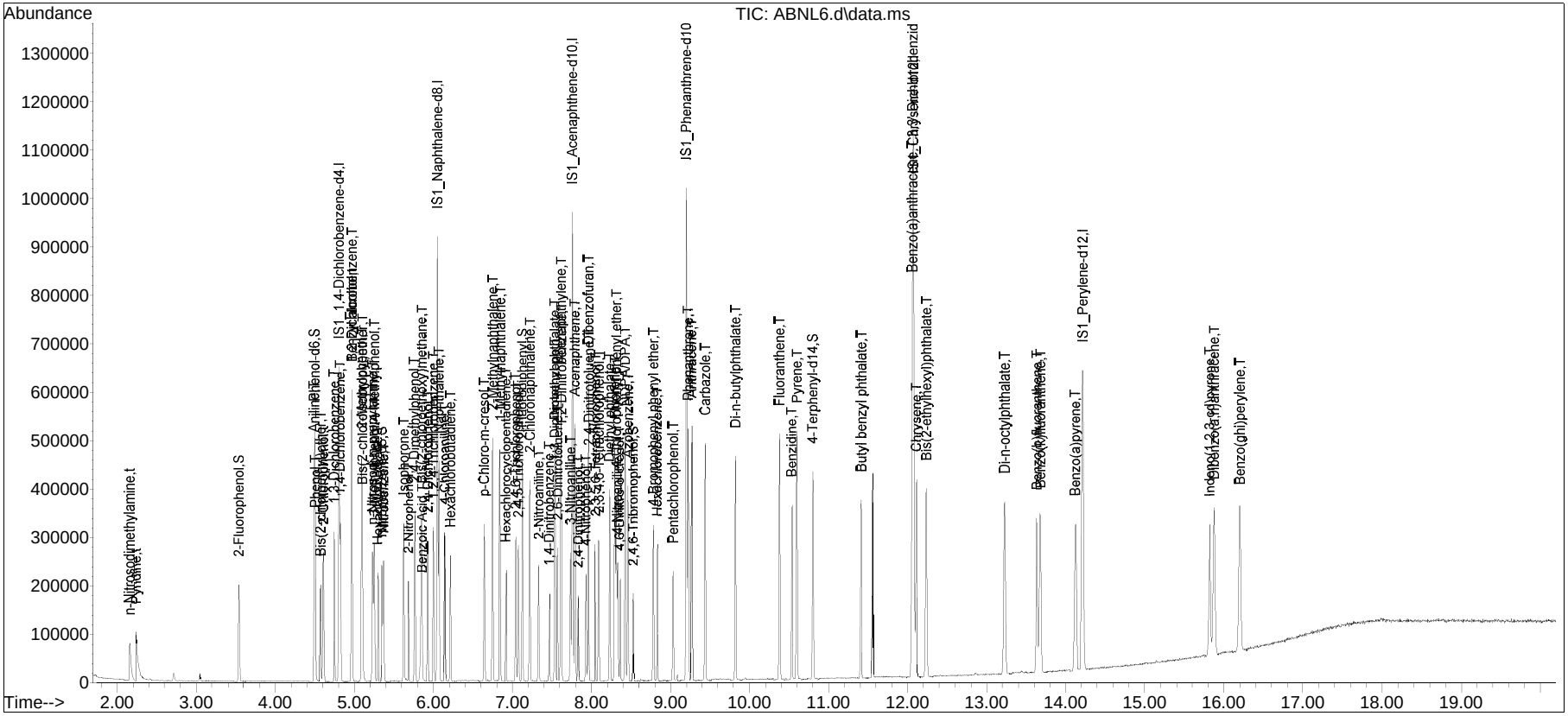
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181204nical\
Data File : ABNL6.d
Acq On : 5 Dec 2018 1:51 am
Operator : SV103:cb
Sample : IL5,32,,ABNL20 Lot#7794
Misc : wg1186012,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 05 17:26:36 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 17:24:49 2018
Response via : Initial Calibration

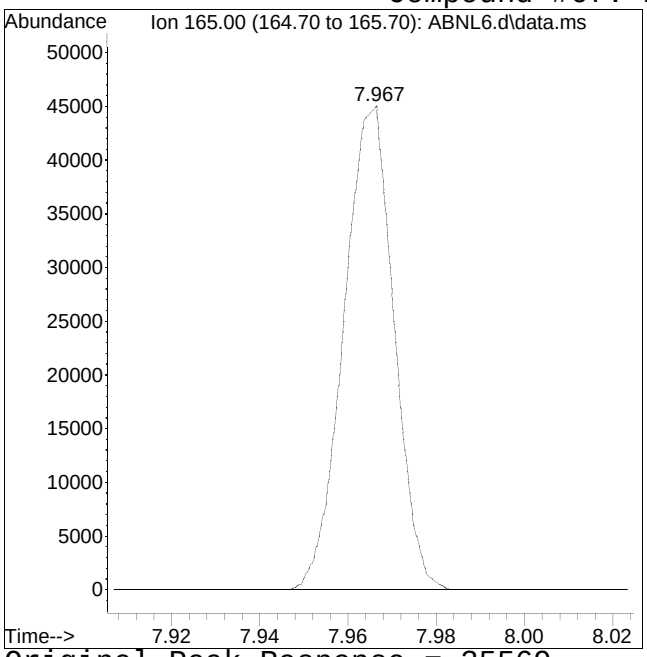
Sub List : ABNical - ABN ical sublistcal\ABNL7.d•



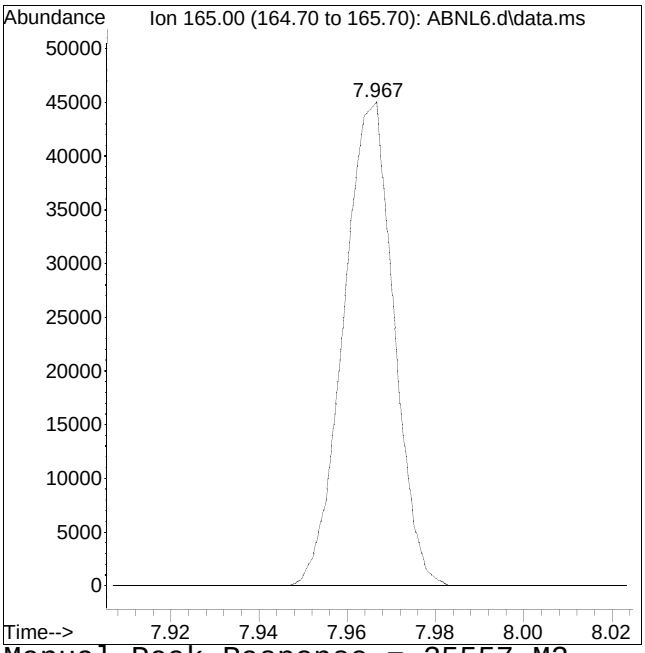
Manual Integration Report

Data Path : I:\8270\SV103\181204nical\QMethod : FS181204nSV103.m
Data File : ABNL6.d Operator : SV103:cb
Date Inj'd : 12/5/2018 1:51 am Instrument : SV103
Sample : IL5,32,,ABNL20 Lot#7794 Quant Date : 12/5/2018 5:26 pm

Compound #67: 2,4-Dinitrotoluene



Original Peak Response = 35569



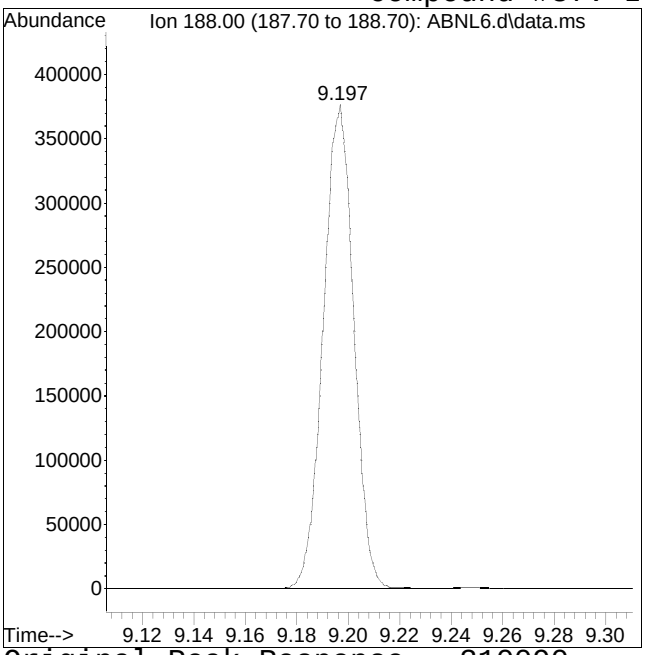
Manual Peak Response = 35557 M2

M2 = Peak not found by automatic integration algorithm.

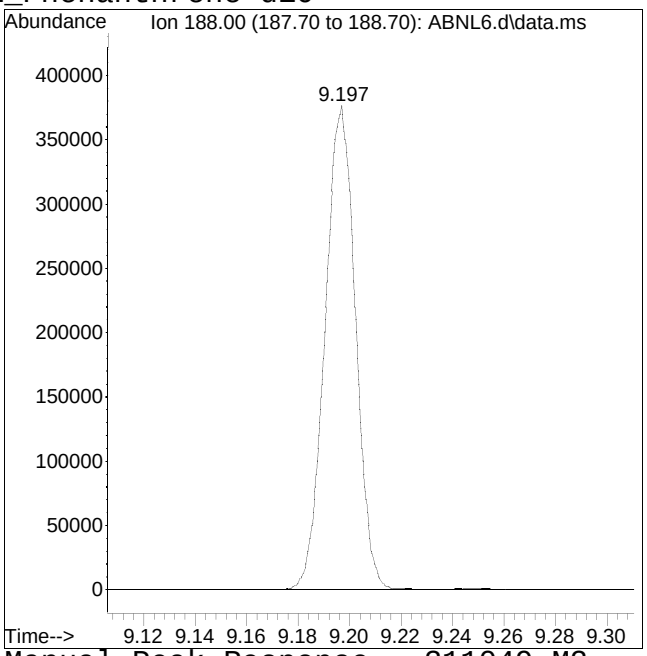
Manual Integration Report

Data Path : I:\8270\SV103\181204nical\QMethod : FS181204nSV103.m
Data File : ABNL6.d Operator : SV103:cb
Date Inj'd : 12/5/2018 1:51 am Instrument : SV103
Sample : IL5,32,,ABNL20 Lot#7794 Quant Date : 12/5/2018 5:26 pm

Compound #87: IS1_Phenanthrene-d10



Original Peak Response = 310090



Manual Peak Response = 311049 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181204nical\
Data File : ABNL5.d
Acq On : 5 Dec 2018 2:16 am
Operator : SV103:cb
Sample : IL6,32,,ABNL10 Lot#7793
Misc : wg1186012,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 05 17:26:25 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 17:24:49 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\181204nical\ABNL7.d
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	4.804	152	86801	40.000 ug/ml	0.00
Standard Area 1 = 88720			Recovery = 97.84%		
34) IS1_Naphthalene-d8	6.048	136	380558	40.000 ug/ml	0.00
Standard Area 1 = 394538			Recovery = 96.46%		
62) IS1_Acenaphthene-d10	7.759	164	170714	40.000 ug/ml	0.00
Standard Area 1 = 185698			Recovery = 91.93%		
87) IS1_Phenanthrene-d10	9.197	188	322911M2	40.000 ug/ml	0.00
Standard Area 1 = 353061			Recovery = 91.46%		
103) IS1_Chrysene-d12	12.067	240	281088	40.000 ug/ml #	0.00
Standard Area 1 = 306161			Recovery = 91.81%		
112) IS1_Perylene-d12	14.215	264	289563	40.000 ug/ml	0.00
Standard Area 1 = 309194			Recovery = 93.65%		
System Monitoring Compounds					
4) 2-Fluorophenol	3.537	112	28543	9.905 ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 19.81%		
7) Phenol-d6	4.494	99	36453	10.067 ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 20.13%		
19) Nitrobenzene-d5	5.352	82	33073	9.872 ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 39.49%		
45) 2-Fluorobiphenyl	7.123	172	59521	10.036 ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 40.14%		
78) 2,4,6-Tribromophenol	8.526	330	6761	9.550 ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 19.10%		
95) 4-Terphenyl-d14	10.802	244	62022	9.865 ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 39.46%		
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	2.159	74	19247	10.015 ug/ml	91
3) Pyridine	2.247	79	28687	9.547 ug/ml	87
5) Aniline	4.494	93	46878	10.065 ug/ml#	57
6) 2-Chlorophenol	4.605	128	31751	9.962 ug/ml	96
8) Phenol	4.506	94	42487	9.973 ug/ml#	51
9) Bis(2-chloroethyl)ether	4.571	93	30112	9.923 ug/ml	99
10) 1,3-Dichlorobenzene	4.747	146	33483	9.977 ug/ml	97
11) 1,4-Dichlorobenzene	4.821	146	34004	9.826 ug/ml	98
12) 1,2-Dichlorobenzene	4.969	146	32943	10.009 ug/ml	96
13) Benzyl alcohol	4.969	79	24727	9.800 ug/ml	95
14) Bis(2-chloroisopropyl)...	5.102	45	61367	9.866 ug/ml	95

Data Path : I:\8270\SV103\181204nical\
Data File : ABNL5.d
Acq On : 5 Dec 2018 2:16 am
Operator : SV103:cb
Sample : IL6,32,,ABNL10 Lot#7793
Misc : wg1186012,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 05 17:26:25 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 17:24:49 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\181204nical\ABNL7.d
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	5.094	108	28508	10.031	ug/ml	99
16) Hexachloroethane	5.298	117	13246	10.011	ug/ml	92
17) n-Nitrosodi-n-propylamine	5.236	70	22494	9.982	ug/ml	97
18) 3-Methylphenol/4-Methy...	5.253	108	29950	10.104	ug/ml	99
20) Nitrobenzene	5.372	77	33588	9.913	ug/ml	98
21) Isophorone	5.625	82	57317	9.964	ug/ml	99
22) 2-Nitrophenol	5.688	139	16504	10.043	ug/ml#	91
23) 2,4-Dimethylphenol	5.764	107	28374	9.897	ug/ml	93
24) Bis(2-chloroethoxy)met...	5.850	93	38038	10.314	ug/ml	99
25) 2,4-Dichlorophenol	5.926	162	23711	10.088	ug/ml	97
26) 1,2,4-Trichlorobenzene	6.000	180	25870	10.023	ug/ml	97
35) Naphthalene	6.068	128	94681	10.126	ug/ml	99
36) Benzoic Acid	5.844	105	18438	7.799	ug/ml	94
37) 4-Chloroaniline	6.142	65	11818	10.041	ug/ml	80
38) Hexachlorobutadiene	6.213	225	12069	10.118	ug/ml	98
39) p-Chloro-m-cresol	6.642	107	25334	9.883	ug/ml	93
40) 2-Methylnaphthalene	6.750	142	61498	9.956	ug/ml	97
41) 1-Methylnaphthalene	6.844	115	19632	10.017	ug/ml	81
42) Hexachlorocyclopentadiene	6.918	237	14092	9.684	ug/ml	94
43) 2,4,6-Trichlorophenol	7.040	196	15380	9.753	ug/ml	92
44) 2,4,5-Trichlorophenol	7.071	196	16931	10.201	ug/ml	94
46) 2-Chloronaphthalene	7.219	162	52729	9.865	ug/ml	97
47) 2-Nitroaniline	7.336	138	18175	9.503	ug/ml	92
48) 1,4-Dinitrobenzene	7.466	168	7740	8.877	ug/ml	94
49) 1,3-Dinitrobenzene	7.540	168	8838	9.245	ug/ml	93
50) Dimethyl phthalate	7.535	163	60445	9.995	ug/ml	99
51) Acenaphthylene	7.617	152	88641	10.062	ug/ml	99
52) 2,6-Dinitrotoluene	7.577	165	13138	9.885	ug/ml	97
53) 1,2-Dinitrobenzene	7.620	168	6354	10.176	ug/ml	99
63) 3-Nitroaniline	7.736	138	16542	10.097	ug/ml#	95
64) Acenaphthene	7.790	154	51446	10.004	ug/ml	96
65) 2,4-Dinitrophenol	7.833	184	7975	8.729	ug/ml	99
66) Dibenzofuran	7.961	168	76111	10.157	ug/ml	96
67) 2,4-Dinitrotoluene	7.964	165	17963M2	10.288	ug/ml	
68) 4-Nitrophenol	7.930	65	14289	10.024	ug/ml	92
69) 2,3,5,6-Tetrachlorophenol	8.052	232	12893	9.966	ug/ml	98
70) 2,3,4,6-Tetrachlorophenol	8.094	232	12805	9.789	ug/ml	97
71) Diethyl phthalate	8.225	149	64047	10.010	ug/ml	98
72) Fluorene	8.290	166	61092	10.140	ug/ml	100
73) 4-Chlorophenyl phenyl ...	8.310	204	26094	10.023	ug/ml	94

Data Path : I:\8270\SV103\181204nical\
Data File : ABNL5.d
Acq On : 5 Dec 2018 2:16 am
Operator : SV103:cb
Sample : IL6,32,,ABNL10 Lot#7793
Misc : wg1186012,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 05 17:26:25 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 17:24:49 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\181204nical\ABNL7.d
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74) 4-Nitroaniline	8.327	138	16475	10.194	ug/ml	92
75) 4,6-Dinitro-o-cresol	8.356	198	9395	8.988	ug/ml	92
76) NDPA/DPA	8.427	169	51580	10.138	ug/ml	98
77) Azobenzene	8.461	77	70326	10.314	ug/ml	98
79) 4-Bromophenyl phenyl e...	8.782	248	13726	9.800	ug/ml	95
80) Hexachlorobenzene	8.827	284	14834	9.791	ug/ml	92
81) Pentachlorophenol	9.029	266	9091	9.477	ug/ml	99
88) Phenanthrene	9.220	178	89503	10.053	ug/ml	100
89) Anthracene	9.268	178	88325	9.972	ug/ml	99
90) Carbazole	9.438	167	84420	10.280	ug/ml	98
91) Di-n-butylphthalate	9.825	149	104271	9.921	ug/ml	100
92) Fluoranthene	10.376	202	86310	9.899	ug/ml#	96
93) Benzidine	10.538	184	59038	9.873	ug/ml	99
94) Pyrene	10.600	202	90140	9.972	ug/ml	98
96) Butyl benzyl phthalate	11.407	149	44043	9.458	ug/ml	97
104) Benzo(a)anthracene	12.052	228	82111	9.927	ug/ml	99
105) 3,3'-Dichlorobenzidine	12.061	252	29526	9.810	ug/ml#	97
106) Chrysene	12.101	228	79174	10.136	ug/ml	99
107) Bis(2-ethylhexyl)phtha...	12.231	149	63101	9.661	ug/ml	98
108) Di-n-octylphthalate	13.226	149	108219	9.576	ug/ml#	94
109) Benzo(b)fluoranthene	13.629	252	78682	10.391	ug/ml#	95
110) Benzo(k)fluoranthene	13.675	252	75945	9.987	ug/ml#	94
111) Benzo(a)pyrene	14.121	252	74816	10.191	ug/ml#	92
113) Indeno(1,2,3-cd)pyrene	15.820	276	72757	10.022	ug/mL#	90
114) Dibenzo(a,h)anthracene	15.874	278	73959	9.971	ug/ml#	92
115) Benzo(ghi)perylene	16.195	276	78360	10.181	ug/ml#	88

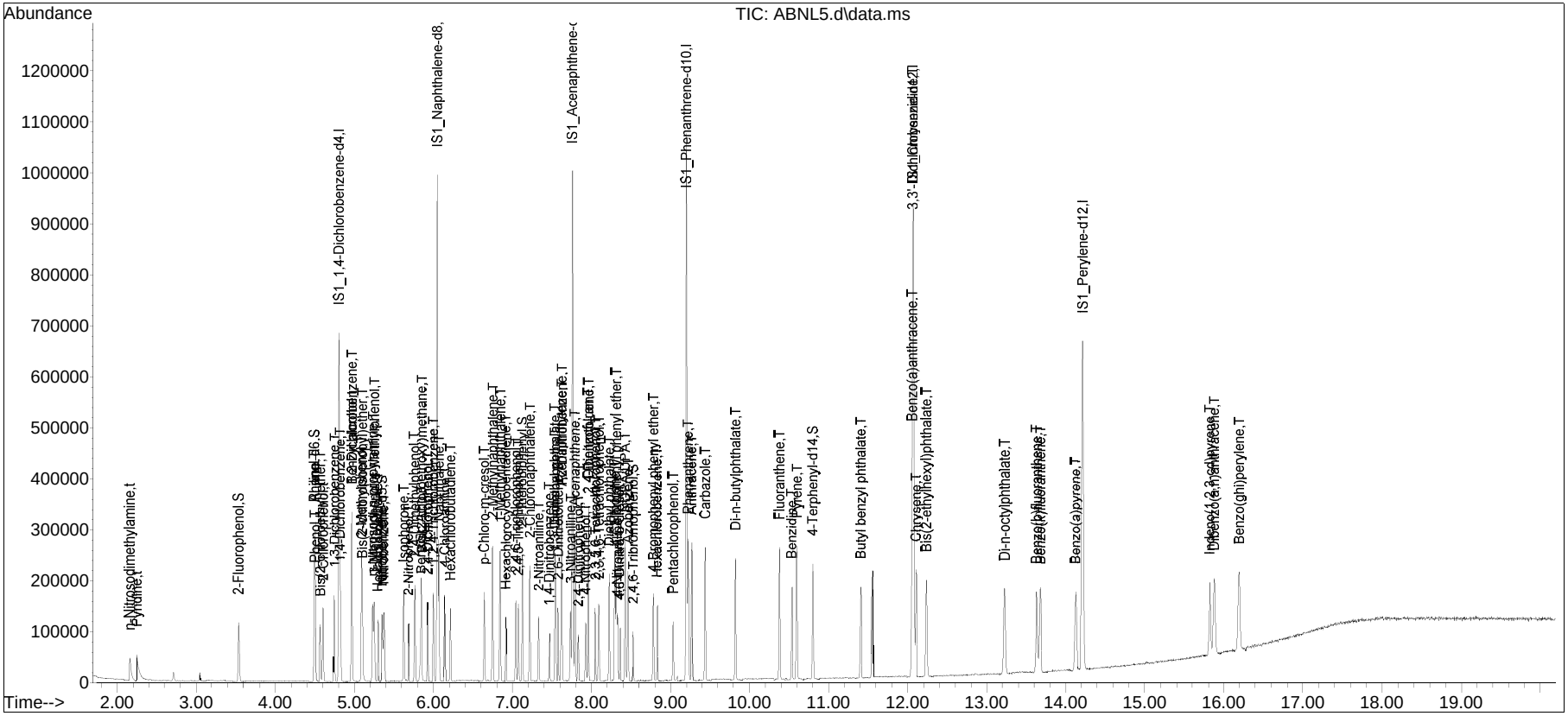
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181204nical\
Data File : ABNL5.d
Acq On : 5 Dec 2018 2:16 am
Operator : SV103:cb
Sample : IL6,32,,ABNL10 Lot#7793
Misc : wg1186012,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 05 17:26:25 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 17:24:49 2018
Response via : Initial Calibration

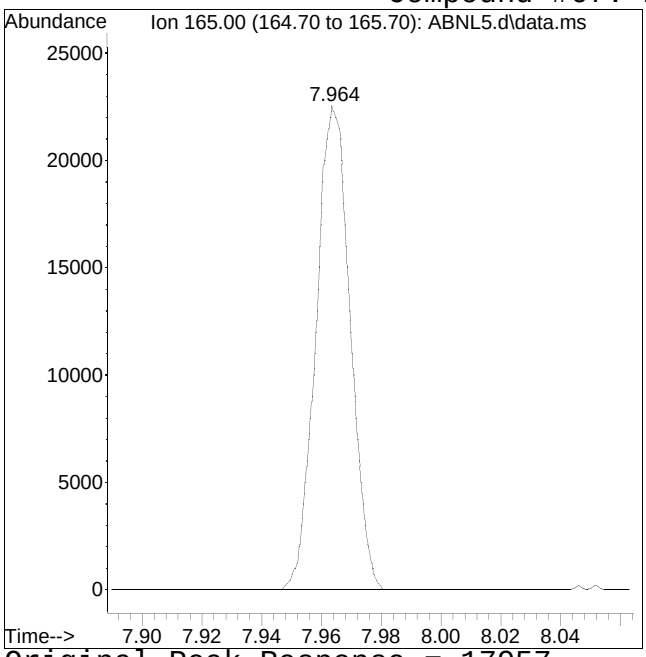
Sub List : ABNical - ABN ical sublistcal\ABNL7.d•



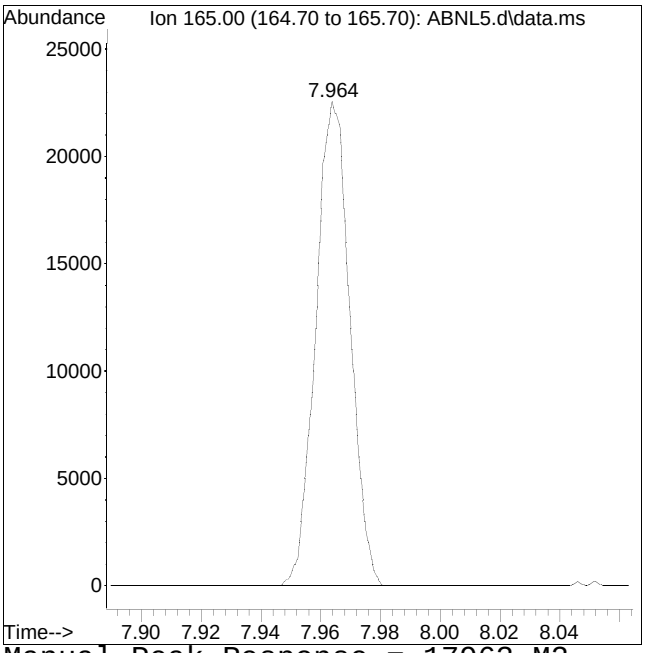
Manual Integration Report

Data Path : I:\8270\SV103\181204nical\QMethod : FS181204nSV103.m
Data File : ABNL5.d Operator : SV103:cb
Date Inj'd : 12/5/2018 2:16 am Instrument : SV103
Sample : IL6,32,,ABNL10 Lot#7793 Quant Date : 12/5/2018 5:26 pm

Compound #67: 2,4-Dinitrotoluene



Original Peak Response = 17957



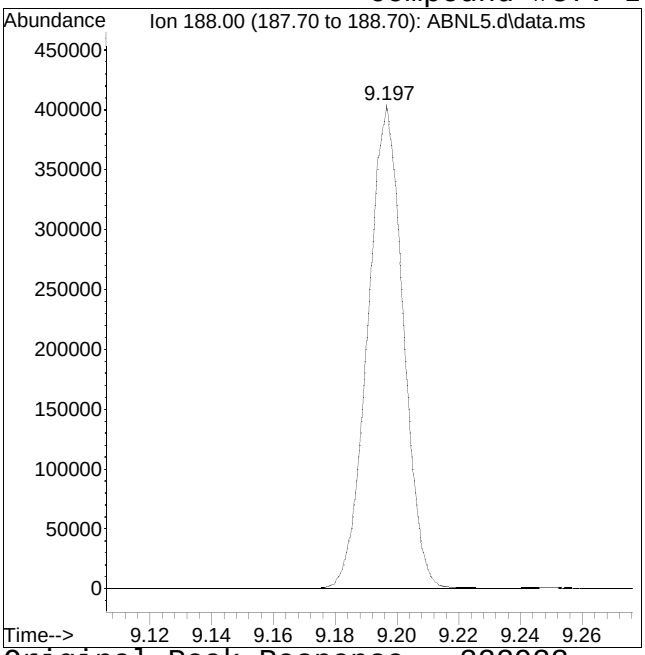
Manual Peak Response = 17963 M2

M2 = Peak not found by automatic integration algorithm.

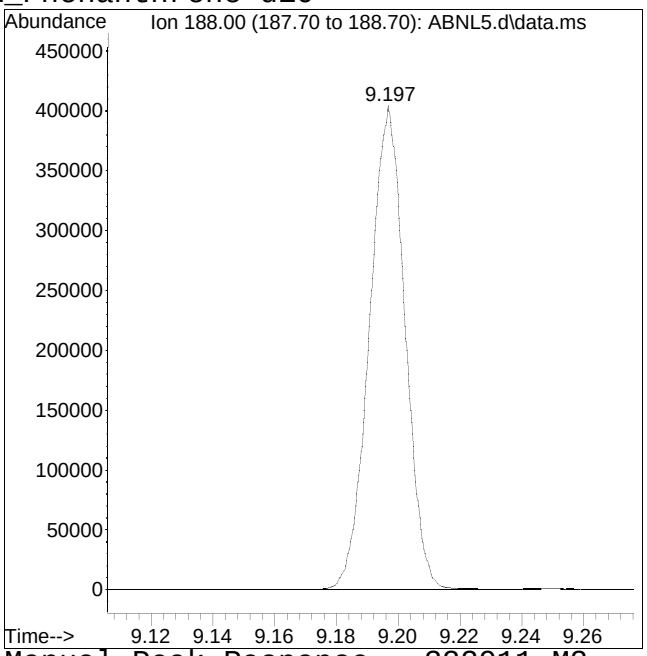
Manual Integration Report

Data Path : I:\8270\SV103\181204nical\QMethod : FS181204nSV103.m
Data File : ABNL5.d Operator : SV103:cb
Date Inj'd : 12/5/2018 2:16 am Instrument : SV103
Sample : IL6,32,,ABNL10 Lot#7793 Quant Date : 12/5/2018 5:26 pm

Compound #87: IS1_Phenanthrene-d10



Original Peak Response = 322933



Manual Peak Response = 322911 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181204nical\
Data File : ABNL4.d
Acq On : 5 Dec 2018 2:42 am
Operator : SV103:cb
Sample : IL7,32,,ABNL5 Lot#7792
Misc : wg1186012,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 05 17:26:14 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 17:24:49 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\181204nical\ABNL7.d
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	4.804	152	78590	40.000 ug/ml	0.00
Standard Area 1 = 88720			Recovery = 88.58%		
34) IS1_Naphthalene-d8	6.048	136	343390	40.000 ug/ml	0.00
Standard Area 1 = 394538			Recovery = 87.04%		
62) IS1_Acenaphthene-d10	7.759	164	150634	40.000 ug/ml	0.00
Standard Area 1 = 185698			Recovery = 81.12%		
87) IS1_Phenanthrene-d10	9.197	188	276803M4	40.000 ug/ml	0.00
Standard Area 1 = 353061			Recovery = 78.40%		
103) IS1_Chrysene-d12	12.067	240	234430	40.000 ug/ml #	0.00
Standard Area 1 = 306161			Recovery = 76.57%		
112) IS1_Perylene-d12	14.215	264	236019	40.000 ug/ml	0.00
Standard Area 1 = 309194			Recovery = 76.33%		
System Monitoring Compounds					
4) 2-Fluorophenol	3.537	112	13463	5.160 ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 10.32%#		
7) Phenol-d6	4.494	99	16675	5.086 ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 10.17%#		
19) Nitrobenzene-d5	5.352	82	14630	4.823 ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 19.29%#		
45) 2-Fluorobiphenyl	7.120	172	25697	4.802 ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 19.21%#		
78) 2,4,6-Tribromophenol	8.526	330	2790	4.466 ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 8.93%#		
95) 4-Terphenyl-d14	10.802	244	25150	4.666 ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 18.66%#		
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	2.164	74	8792	5.053 ug/ml#	83
3) Pyridine	2.266	79	13768	5.061 ug/ml	81
5) Aniline	4.494	93	21076	4.998 ug/ml#	54
6) 2-Chlorophenol	4.602	128	14667	5.082 ug/ml	97
8) Phenol	4.506	94	19632	5.090 ug/ml#	50
9) Bis(2-chloroethyl)ether	4.571	93	14122	5.140 ug/ml	98
10) 1,3-Dichlorobenzene	4.747	146	15559	5.121 ug/ml	95
11) 1,4-Dichlorobenzene	4.818	146	15748	5.026 ug/ml	99
12) 1,2-Dichlorobenzene	4.969	146	14663	4.921 ug/ml	97
13) Benzyl alcohol	4.969	79	10913	4.777 ug/ml	94
14) Bis(2-chloroisopropyl)...	5.105	45	29297	5.202 ug/ml	92

Data Path : I:\8270\SV103\181204nical\
Data File : ABNL4.d
Acq On : 5 Dec 2018 2:42 am
Operator : SV103:cb
Sample : IL7,32,,ABNL5 Lot#7792
Misc : wg1186012,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 05 17:26:14 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 17:24:49 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\181204nical\ABNL7.d
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	5.094	108	12537	4.872	ug/ml	99
16) Hexachloroethane	5.298	117	6078	5.074	ug/ml	88
17) n-Nitrosodi-n-propylamine	5.236	70	10220	5.009	ug/ml#	90
18) 3-Methylphenol/4-Methy...	5.253	108	13355	4.976	ug/ml	99
20) Nitrobenzene	5.372	77	15528	5.062	ug/ml	98
21) Isophorone	5.625	82	24966	4.794	ug/ml	99
22) 2-Nitrophenol	5.688	139	6877	4.622	ug/ml	96
23) 2,4-Dimethylphenol	5.764	107	12865	4.956	ug/ml	100
24) Bis(2-chloroethoxy)met...	5.850	93	16723	5.008	ug/ml	98
25) 2,4-Dichlorophenol	5.929	162	10439	4.905	ug/ml	99
26) 1,2,4-Trichlorobenzene	6.000	180	11425	4.889	ug/ml	99
35) Naphthalene	6.068	128	42264	5.009	ug/ml	99
36) Benzoic Acid	5.832	105	6520	3.056	ug/ml	94
37) 4-Chloroaniline	6.142	65	5439	5.121	ug/ml	90
38) Hexachlorobutadiene	6.216	225	5147	4.782	ug/ml	98
39) p-Chloro-m-cresol	6.642	107	11124	4.809	ug/ml	95
40) 2-Methylnaphthalene	6.750	142	27079	4.859	ug/ml	97
41) 1-Methylnaphthalene	6.844	115	8792	4.971	ug/ml	82
42) Hexachlorocyclopentadiene	6.918	237	6492	4.944	ug/ml#	94
43) 2,4,6-Trichlorophenol	7.040	196	6518	4.581	ug/ml	95
44) 2,4,5-Trichlorophenol	7.071	196	6928	4.626	ug/ml	97
46) 2-Chloronaphthalene	7.219	162	22950	4.759	ug/ml	99
47) 2-Nitroaniline	7.333	138	7593	4.400	ug/ml	95
48) 1,4-Dinitrobenzene	7.463	168	2963	3.766	ug/ml	78
49) 1,3-Dinitrobenzene	7.540	168	3598	4.171	ug/ml	89
50) Dimethyl phthalate	7.532	163	25197	4.617	ug/ml#	97
51) Acenaphthylene	7.617	152	37663	4.738	ug/ml	99
52) 2,6-Dinitrotoluene	7.577	165	5288	4.409	ug/ml	91
53) 1,2-Dinitrobenzene	7.620	168	2326	4.128	ug/ml#	70
63) 3-Nitroaniline	7.733	138	6861	4.746	ug/ml#	86
64) Acenaphthene	7.790	154	22822	5.029	ug/ml	98
65) 2,4-Dinitrophenol	7.833	184	3233	4.010	ug/ml	93
66) Dibenzofuran	7.961	168	32535	4.921	ug/ml	98
67) 2,4-Dinitrotoluene	7.964	165	6899M2	4.478	ug/ml	
68) 4-Nitrophenol	7.929	65	5800	4.611	ug/ml	92
69) 2,3,5,6-Tetrachlorophenol	8.052	232	5502	4.820	ug/ml	98
70) 2,3,4,6-Tetrachlorophenol	8.094	232	5228	4.529	ug/ml	96
71) Diethyl phthalate	8.225	149	26630	4.717	ug/ml	98
72) Fluorene	8.293	166	25401	4.778	ug/ml	96
73) 4-Chlorophenyl phenyl ...	8.310	204	11402	4.963	ug/ml	95

Data Path : I:\8270\SV103\181204nical\
Data File : ABNL4.d
Acq On : 5 Dec 2018 2:42 am
Operator : SV103:cb
Sample : IL7,32,,ABNL5 Lot#7792
Misc : wg1186012,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 05 17:26:14 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 17:24:49 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\181204nical\ABNL7.d
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74) 4-Nitroaniline	8.324	138	6545	4.590	ug/ml	91
75) 4,6-Dinitro-o-cresol	8.356	198	3688	3.998	ug/ml	93
76) NDPA/DPA	8.427	169	21220	4.727	ug/ml	97
77) Azobenzene	8.461	77	29567	4.914	ug/ml	97
79) 4-Bromophenyl phenyl e...	8.779	248	5893	4.768	ug/ml	95
80) Hexachlorobenzene	8.830	284	6429	4.809	ug/ml	91
81) Pentachlorophenol	9.029	266	3636	4.295	ug/ml	98
88) Phenanthrene	9.217	178	38329	5.022	ug/ml	98
89) Anthracene	9.268	178	37091	4.885	ug/ml	99
90) Carbazole	9.435	167	34258	4.867	ug/ml	100
91) Di-n-butylphthalate	9.822	149	41748	4.634	ug/ml	100
92) Fluoranthene	10.376	202	36409	4.872	ug/ml#	95
93) Benzidine	10.538	184	24278	4.736	ug/ml	98
94) Pyrene	10.600	202	37127	4.791	ug/ml	98
96) Butyl benzyl phthalate	11.407	149	17371	4.352	ug/ml	93
104) Benzo(a)anthracene	12.052	228	33616	4.873	ug/ml	98
105) 3,3'-Dichlorobenzidine	12.061	252	12102	4.821	ug/ml#	91
106) Chrysene	12.098	228	32725	5.023	ug/ml	99
107) Bis(2-ethylhexyl)phtha...	12.231	149	24664	4.528	ug/ml#	96
108) Di-n-octylphthalate	13.226	149	41404	4.393	ug/ml#	92
109) Benzo(b)fluoranthene	13.629	252	31178	4.937	ug/ml#	94
110) Benzo(k)fluoranthene	13.672	252	31572	4.978	ug/ml#	92
111) Benzo(a)pyrene	14.118	252	29477	4.814	ug/ml#	92
113) Indeno(1,2,3-cd)pyrene	15.820	276	29147	4.926	ug/mL#	90
114) Dibenzo(a,h)anthracene	15.874	278	29876	4.942	ug/ml#	92
115) Benzo(ghi)perylene	16.192	276	31704	5.053	ug/ml#	86

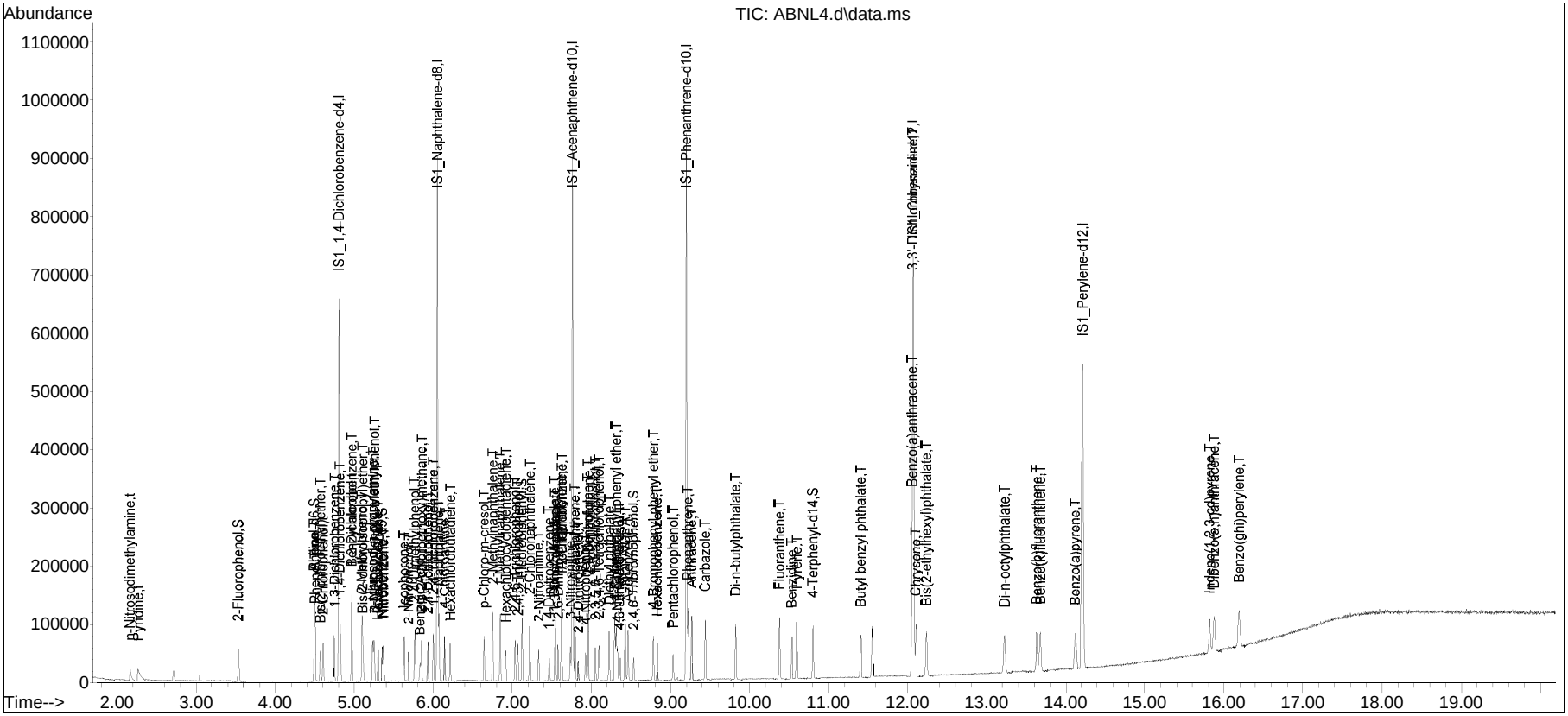
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181204nical\
Data File : ABNL4.d
Acq On : 5 Dec 2018 2:42 am
Operator : SV103:cb
Sample : IL7,32,,ABNL5 Lot#7792
Misc : wg1186012,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 05 17:26:14 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 17:24:49 2018
Response via : Initial Calibration

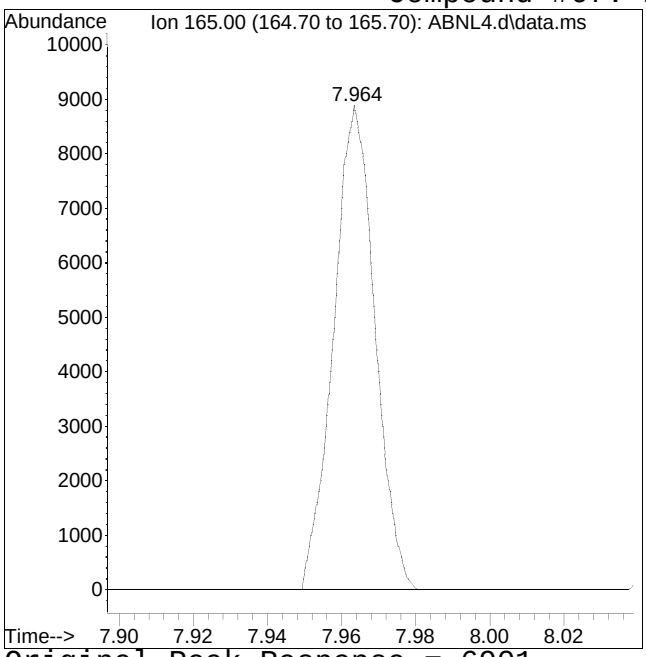
Sub List : ABNical - ABN ical sublistcal\ABNL7.d•



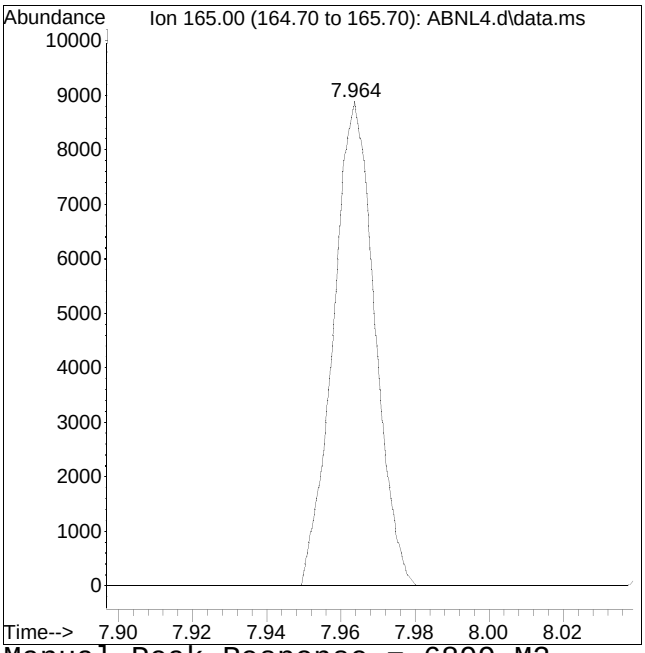
Manual Integration Report

Data Path : I:\8270\SV103\181204nical\QMethod : FS181204nSV103.m
Data File : ABNL4.d Operator : SV103:cb
Date Inj'd : 12/5/2018 2:42 am Instrument : SV103
Sample : IL7,32,,ABNL5 Lot#7792 Quant Date : 12/5/2018 5:26 pm

Compound #67: 2,4-Dinitrotoluene



Original Peak Response = 6901



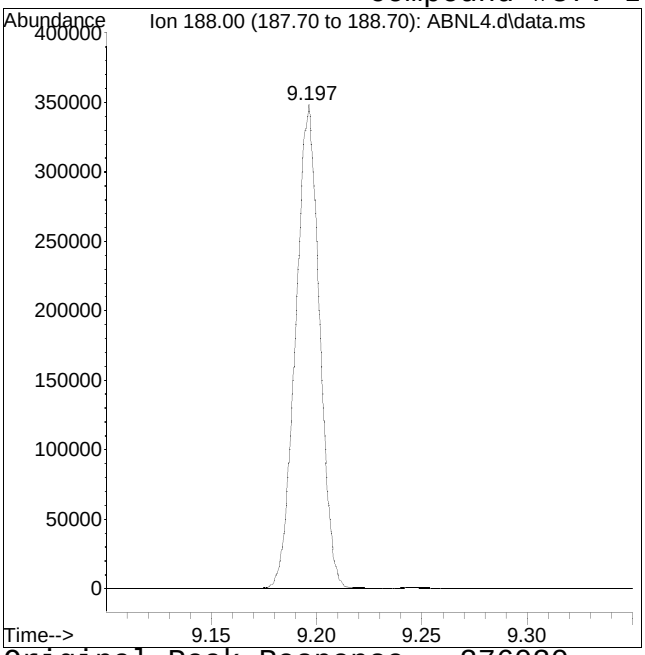
Manual Peak Response = 6899 M2

M2 = Peak not found by automatic integration algorithm.

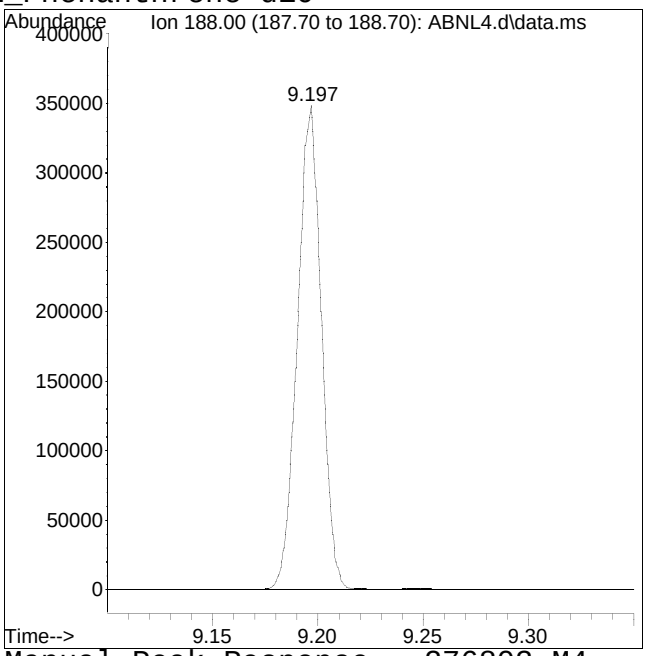
Manual Integration Report

Data Path : I:\8270\SV103\181204nical\QMethod : FS181204nSV103.m
Data File : ABNL4.d Operator : SV103:cb
Date Inj'd : 12/5/2018 2:42 am Instrument : SV103
Sample : IL7,32,,ABNL5 Lot#7792 Quant Date : 12/5/2018 5:26 pm

Compound #87: IS1_Phenanthrene-d10



Original Peak Response = 276030



Manual Peak Response = 276803 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181204nical\
Data File : ABNL3.d
Acq On : 5 Dec 2018 3:07 am
Operator : SV103:cb
Sample : IL8,32,,ABNL3 Lot#7791
Misc : wg1186012,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 05 17:26:04 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 17:24:49 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\181204nical\ABNL7.d
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	4.804	152	85275	40.000 ug/ml	0.00
Standard Area 1 = 88720			Recovery = 96.12%		
34) IS1_Naphthalene-d8	6.049	136	375840	40.000 ug/ml	0.00
Standard Area 1 = 394538			Recovery = 95.26%		
62) IS1_Acenaphthene-d10	7.759	164	167047	40.000 ug/ml	0.00
Standard Area 1 = 185698			Recovery = 89.96%		
87) IS1_Phenanthrene-d10	9.197	188	317331M2	40.000 ug/ml	0.00
Standard Area 1 = 353061			Recovery = 89.88%		
103) IS1_Chrysene-d12	12.067	240	279336	40.000 ug/ml #	0.00
Standard Area 1 = 306161			Recovery = 91.24%		
112) IS1_Perylene-d12	14.218	264	282965	40.000 ug/ml	0.00
Standard Area 1 = 309194			Recovery = 91.52%		
System Monitoring Compounds					
4) 2-Fluorophenol	3.540	112	8653	3.056 ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 6.11%#		
7) Phenol-d6	4.494	99	11111	3.123 ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 6.25%#		
19) Nitrobenzene-d5	5.352	82	9976	3.031 ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 12.12%#		
45) 2-Fluorobiphenyl	7.120	172	16781	2.865 ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 11.46%#		
78) 2,4,6-Tribromophenol	8.526	330	1994	2.878 ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 5.76%#		
95) 4-Terphenyl-d14	10.802	244	18156	2.938 ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 11.75%#		
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	2.176	74	5906	3.128 ug/ml#	75
3) Pyridine	2.284	79	8004	2.711 ug/ml	93
5) Aniline	4.494	93	14251	3.115 ug/ml#	53
6) 2-Chlorophenol	4.605	128	9575	3.058 ug/ml	98
8) Phenol	4.509	94	12795	3.057 ug/ml#	47
9) Bis(2-chloroethyl)ether	4.571	93	9597	3.219 ug/ml	99
10) 1,3-Dichlorobenzene	4.747	146	9849	2.987 ug/ml	97
11) 1,4-Dichlorobenzene	4.821	146	10217	3.005 ug/ml	92
12) 1,2-Dichlorobenzene	4.969	146	10010	3.096 ug/ml	97
13) Benzyl alcohol	4.972	79	7375	2.975 ug/ml	96
14) Bis(2-chloroisopropyl)...	5.105	45	20884	3.418 ug/ml	91

Data Path : I:\8270\SV103\181204nical\
Data File : ABNL3.d
Acq On : 5 Dec 2018 3:07 am
Operator : SV103:cb
Sample : IL8,32,,ABNL3 Lot#7791
Misc : wg1186012,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 05 17:26:04 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 17:24:49 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\181204nical\ABNL7.d
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	5.094	108	8473	3.035	ug/ml	98
16) Hexachloroethane	5.298	117	3882	2.986	ug/ml	90
17) n-Nitrosodi-n-propylamine	5.236	70	6470	2.923	ug/ml#	90
18) 3-Methylphenol/4-Methy...	5.253	108	8644	2.968	ug/ml#	95
20) Nitrobenzene	5.372	77	10091	3.031	ug/ml	96
21) Isophorone	5.625	82	17155	3.036	ug/ml	98
22) 2-Nitrophenol	5.688	139	4597	2.847	ug/ml#	93
23) 2,4-Dimethylphenol	5.764	107	8498	3.017	ug/ml	96
24) Bis(2-chloroethoxy)met...	5.850	93	11314	3.123	ug/ml	97
25) 2,4-Dichlorophenol	5.929	162	6684	2.895	ug/ml	99
26) 1,2,4-Trichlorobenzene	6.000	180	7395	2.916	ug/ml	99
35) Naphthalene	6.068	128	28091	3.042	ug/ml	99
36) Benzoic Acid	5.830	105	3263	1.397	ug/ml	89
37) 4-Chloroaniline	6.142	65	3738	3.216	ug/ml	95
38) Hexachlorobutadiene	6.213	225	3614	3.068	ug/ml	96
39) p-Chloro-m-cresol	6.642	107	7579	2.994	ug/ml	98
40) 2-Methylnaphthalene	6.748	142	18219	2.987	ug/ml	98
41) 1-Methylnaphthalene	6.841	115	5823	3.008	ug/ml	84
42) Hexachlorocyclopentadiene	6.918	237	3742	2.604	ug/ml#	92
43) 2,4,6-Trichlorophenol	7.040	196	4223	2.712	ug/ml	93
44) 2,4,5-Trichlorophenol	7.072	196	4538	2.768	ug/ml	92
46) 2-Chloronaphthalene	7.219	162	15466	2.930	ug/ml	98
47) 2-Nitroaniline	7.336	138	4855	2.570	ug/ml	97
48) 1,4-Dinitrobenzene	7.464	168	1960	2.276	ug/ml	82
49) 1,3-Dinitrobenzene	7.540	168	2296	2.432	ug/ml	81
50) Dimethyl phthalate	7.535	163	16825	2.817	ug/ml#	96
51) Acenaphthylene	7.617	152	24832	2.854	ug/ml	99
52) 2,6-Dinitrotoluene	7.577	165	3462	2.638	ug/ml	88
53) 1,2-Dinitrobenzene	7.620	168	1445	2.343	ug/ml#	47
63) 3-Nitroaniline	7.734	138	4515	2.816	ug/ml#	80
64) Acenaphthene	7.788	154	14885	2.958	ug/ml	98
65) 2,4-Dinitrophenol	7.833	184	1785	1.997	ug/ml#	59
66) Dibenzofuran	7.961	168	21886	2.985	ug/ml	95
67) 2,4-Dinitrotoluene	7.964	165	4786M2	2.801	ug/ml	
68) 4-Nitrophenol	7.930	65	3891	2.790	ug/ml	89
69) 2,3,5,6-Tetrachlorophenol	8.052	232	3499	2.764	ug/ml	96
70) 2,3,4,6-Tetrachlorophenol	8.092	232	3666	2.864	ug/ml	97
71) Diethyl phthalate	8.222	149	18042	2.882	ug/ml	99
72) Fluorene	8.290	166	17015	2.886	ug/ml	96
73) 4-Chlorophenyl phenyl ...	8.308	204	7577	2.974	ug/ml	95

Data Path : I:\8270\SV103\181204nical\
Data File : ABNL3.d
Acq On : 5 Dec 2018 3:07 am
Operator : SV103:cb
Sample : IL8,32,,ABNL3 Lot#7791
Misc : wg1186012,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 05 17:26:04 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 17:24:49 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\181204nical\ABNL7.d
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74)	4-Nitroaniline	8.325	138	4183	2.645	ug/ml	88
75)	4,6-Dinitro-o-cresol	8.356	198	2331	2.279	ug/ml#	80
76)	NDPA/DPA	8.427	169	14314	2.875	ug/ml	97
77)	Azobenzene	8.458	77	20438	3.063	ug/ml	95
79)	4-Bromophenyl phenyl e...	8.779	248	3774	2.754	ug/ml	100
80)	Hexachlorobenzene	8.828	284	4184	2.822	ug/ml#	87
81)	Pentachlorophenol	9.029	266	2441	2.600	ug/ml	97
88)	Phenanthrene	9.217	178	26684	3.050	ug/ml	99
89)	Anthracene	9.268	178	25161	2.891	ug/ml	97
90)	Carbazole	9.438	167	23396	2.899	ug/ml	96
91)	Di-n-butylphthalate	9.822	149	28754	2.784	ug/ml	98
92)	Fluoranthene	10.376	202	25206	2.942	ug/ml#	96
93)	Benzidine	10.538	184	16371	2.786	ug/ml#	96
94)	Pyrene	10.601	202	26283	2.959	ug/ml	99
96)	Butyl benzyl phthalate	11.408	149	12600	2.753	ug/ml	95
104)	Benzo(a)anthracene	12.055	228	24898	3.029	ug/ml	99
105)	3,3'-Dichlorobenzidine	12.061	252	8232	2.752	ug/ml#	88
106)	Chrysene	12.101	228	23416	3.017	ug/ml	98
107)	Bis(2-ethylhexyl)phtha...	12.232	149	18466	2.845	ug/ml#	95
108)	Di-n-octylphthalate	13.223	149	29912	2.663	ug/ml#	95
109)	Benzo(b)fluoranthene	13.630	252	21714	2.886	ug/ml#	93
110)	Benzo(k)fluoranthene	13.672	252	22437	2.969	ug/ml#	91
111)	Benzo(a)pyrene	14.118	252	21136	2.897	ug/ml#	91
113)	Indeno(1,2,3-cd)pyrene	15.817	276	20404	2.876	ug/mL#	89
114)	Dibenzo(a,h)anthracene	15.874	278	21261	2.933	ug/ml#	90
115)	Benzo(ghi)perylene	16.193	276	22101	2.938	ug/ml#	85

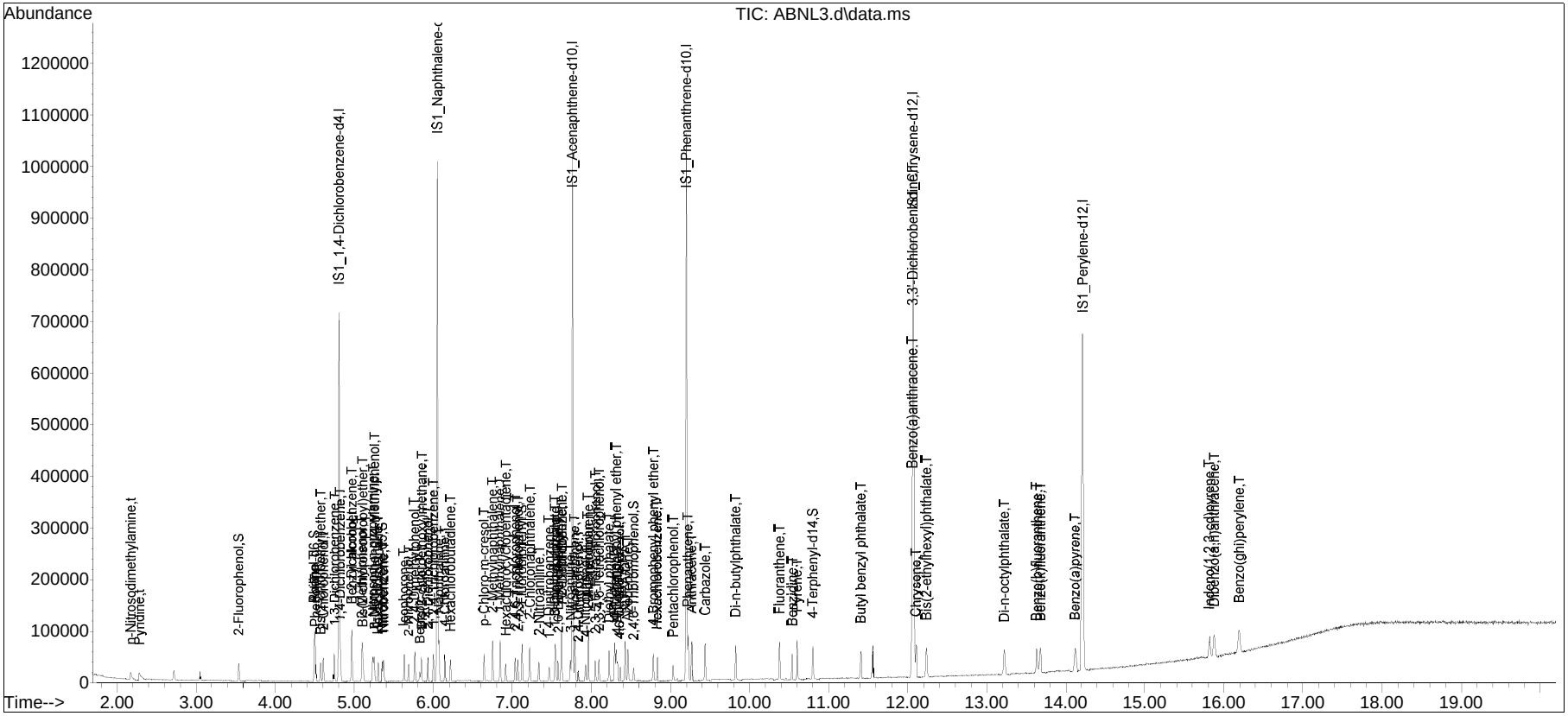
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181204nical\
Data File : ABNL3.d
Acq On : 5 Dec 2018 3:07 am
Operator : SV103:cb
Sample : IL8,32,,ABNL3 Lot#7791
Misc : wg1186012,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 05 17:26:04 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 17:24:49 2018
Response via : Initial Calibration

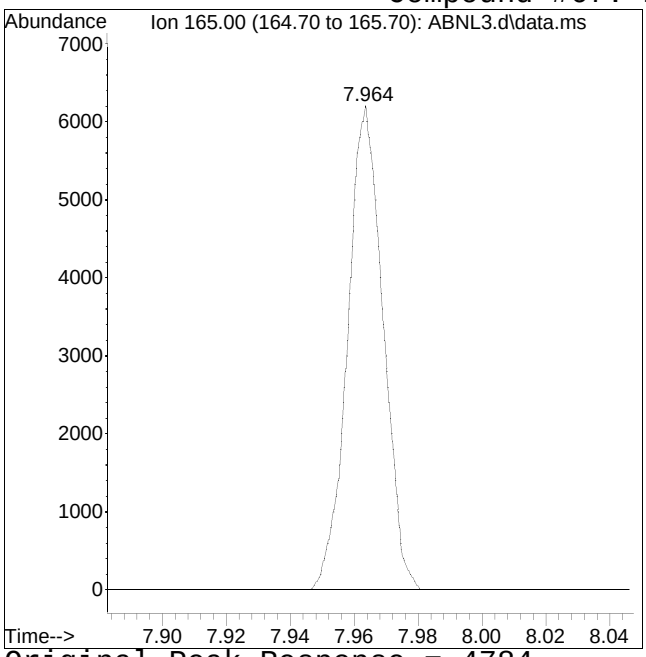
Sub List : ABNical - ABN ical sublistcal\ABNL7.d•

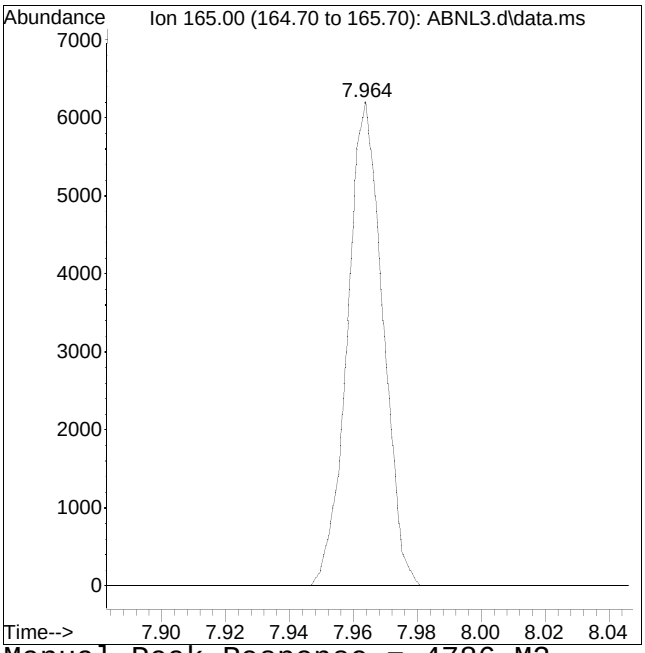


Manual Integration Report

Data Path : I:\8270\SV103\181204nical\QMethod : FS181204nSV103.m
Data File : ABNL3.d Operator : SV103:cb
Date Inj'd : 12/5/2018 3:07 am Instrument : SV103
Sample : IL8,32,,ABNL3 Lot#7791 Quant Date : 12/5/2018 5:25 pm

Compound #67: 2,4-Dinitrotoluene



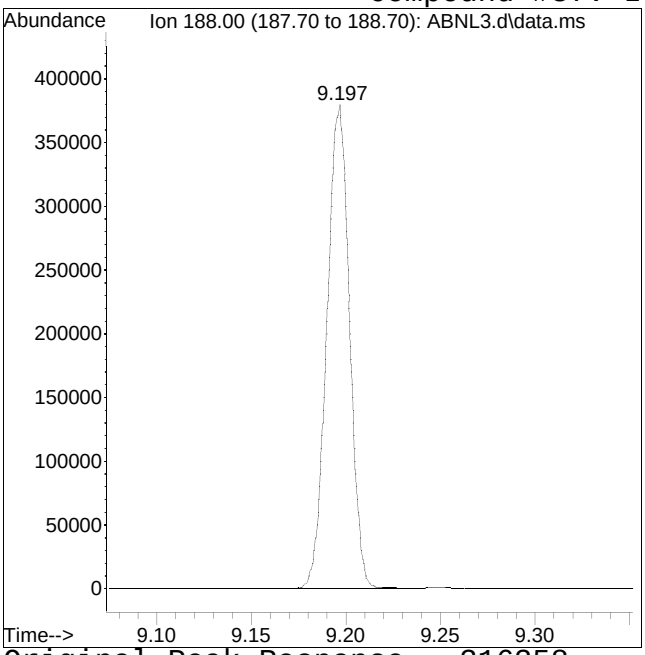


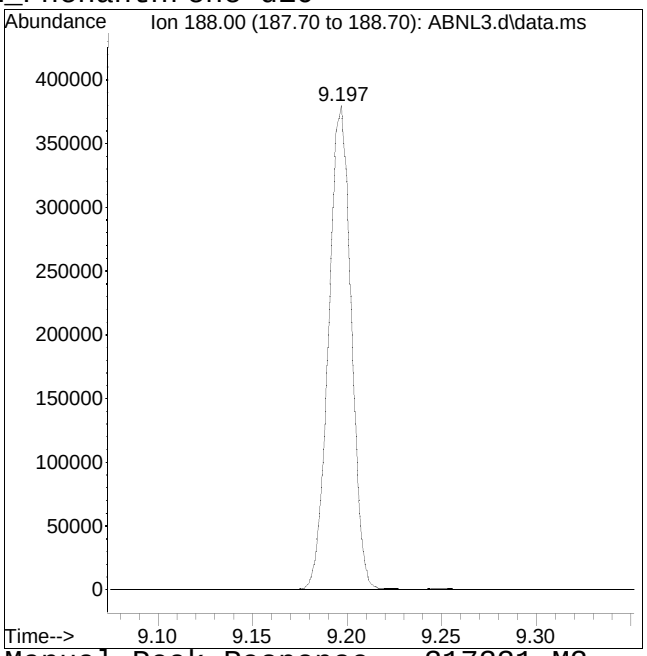
Original Peak Response = 4784 Manual Peak Response = 4786 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\8270\SV103\181204nical\QMethod : FS181204nSV103.m
Data File : ABNL3.d Operator : SV103:cb
Date Inj'd : 12/5/2018 3:07 am Instrument : SV103
Sample : IL8,32,,ABNL3 Lot#7791 Quant Date : 12/5/2018 5:25 pm

Compound #87: IS1_Phenanthrene-d10





Original Peak Response = 316358 Manual Peak Response = 317331 M2
M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181204nical\
Data File : ABNL2.d
Acq On : 5 Dec 2018 3:33 am
Operator : SV103:cb
Sample : IL9,32,,ABNL2 Lot#7790
Misc : wg1186012,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 05 17:25:54 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 17:24:49 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\181204nical\ABNL7.d
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	4.804	152	80593	40.000 ug/ml	0.00
Standard Area 1 = 88720			Recovery = 90.84%		
34) IS1_Naphthalene-d8	6.048	136	349818	40.000 ug/ml	0.00
Standard Area 1 = 394538			Recovery = 88.67%		
62) IS1_Acenaphthene-d10	7.759	164	149095	40.000 ug/ml	0.00
Standard Area 1 = 185698			Recovery = 80.29%		
87) IS1_Phenanthrene-d10	9.197	188	282931M2	40.000 ug/ml	0.00
Standard Area 1 = 353061			Recovery = 80.14%		
103) IS1_Chrysene-d12	12.067	240	254743	40.000 ug/ml #	0.00
Standard Area 1 = 306161			Recovery = 83.21%		
112) IS1_Perylene-d12	14.217	264	260688	40.000 ug/ml	0.00
Standard Area 1 = 309194			Recovery = 84.31%		
System Monitoring Compounds					
4) 2-Fluorophenol	3.539	112	5338	1.995 ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 3.99%#		
7) Phenol-d6	4.497	99	6656	1.980 ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 3.96%#		
19) Nitrobenzene-d5	5.355	82	6187	1.989 ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 7.96%#		
45) 2-Fluorobiphenyl	7.120	172	10070	1.847 ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 7.39%#		
78) 2,4,6-Tribromophenol	8.526	330	1073	1.735 ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 3.47%#		
95) 4-Terphenyl-d14	10.802	244	10801	1.961 ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 7.84%#		
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	2.181	74	3906	2.189 ug/ml#	77
3) Pyridine	2.301	79	5462M1	1.958 ug/ml	
5) Aniline	4.494	93	9144	2.114 ug/ml#	56
6) 2-Chlorophenol	4.605	128	5461	1.845 ug/ml	95
8) Phenol	4.508	94	7928	2.004 ug/ml#	46
9) Bis(2-chloroethyl)ether	4.571	93	5875	2.085 ug/ml	95
10) 1,3-Dichlorobenzene	4.747	146	6366	2.043 ug/ml	96
11) 1,4-Dichlorobenzene	4.821	146	6597	2.053 ug/ml	93
12) 1,2-Dichlorobenzene	4.969	146	6232	2.039 ug/ml	99
13) Benzyl alcohol	4.971	79	4548	1.941 ug/ml	95
14) Bis(2-chloroisopropyl)...	5.105	45	13445	2.328 ug/ml#	90

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181204nical\
Data File : ABNL2.d
Acq On : 5 Dec 2018 3:33 am
Operator : SV103:cb
Sample : IL9,32,,ABNL2 Lot#7790
Misc : wg1186012,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 05 17:25:54 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 17:24:49 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\181204nical\ABNL7.d
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	5.096	108	5270	1.997	ug/ml	93
16) Hexachloroethane	5.298	117	2388	1.944	ug/ml	98
17) n-Nitrosodi-n-propylamine	5.236	70	4200	2.007	ug/ml#	64
18) 3-Methylphenol/4-Methy...	5.253	108	5369	1.951	ug/ml#	96
20) Nitrobenzene	5.372	77	6343	2.016	ug/ml#	88
21) Isophorone	5.625	82	9989	1.870	ug/ml#	91
22) 2-Nitrophenol	5.688	139	2609	1.710	ug/ml#	77
23) 2,4-Dimethylphenol	5.764	107	5122	1.924	ug/ml	93
24) Bis(2-chloroethoxy)met...	5.849	93	6765	1.976	ug/ml#	89
25) 2,4-Dichlorophenol	5.929	162	3967	1.818	ug/ml	94
26) 1,2,4-Trichlorobenzene	6.000	180	4579	1.911	ug/ml	98
35) Naphthalene	6.068	128	16832	1.958	ug/ml	98
36) Benzoic Acid	0.000		0	N.D.	d	
37) 4-Chloroaniline	6.142	65	2187	2.021	ug/ml	97
38) Hexachlorobutadiene	6.216	225	1899	1.732	ug/ml	91
39) p-Chloro-m-cresol	6.642	107	4255	1.806	ug/ml	93
40) 2-Methylnaphthalene	6.747	142	10697	1.884	ug/ml	92
41) 1-Methylnaphthalene	6.844	115	3503	1.944	ug/ml	83
42) Hexachlorocyclopentadiene	6.915	237	2449	1.831	ug/ml#	89
43) 2,4,6-Trichlorophenol	7.040	196	2688	1.854	ug/ml#	78
44) 2,4,5-Trichlorophenol	7.068	196	2539	1.664	ug/ml#	85
46) 2-Chloronaphthalene	7.219	162	9432	1.920	ug/ml	97
47) 2-Nitroaniline	7.336	138	2983	1.697	ug/ml	96
48) 1,4-Dinitrobenzene	7.463	168	1143	1.426	ug/ml#	75
49) 1,3-Dinitrobenzene	7.540	168	1315	1.496	ug/ml	80
50) Dimethyl phthalate	7.532	163	9844	1.771	ug/ml#	96
51) Acenaphthylene	7.617	152	14231	1.757	ug/ml	98
52) 2,6-Dinitrotoluene	7.574	165	1997	1.635	ug/ml	88
53) 1,2-Dinitrobenzene	7.623	168	882M2	1.537	ug/ml	
63) 3-Nitroaniline	7.736	138	2406	1.681	ug/ml#	62
64) Acenaphthene	7.790	154	9210	2.051	ug/ml	98
65) 2,4-Dinitrophenol	7.836	184	964M2	1.208	ug/ml	
66) Dibenzofuran	7.958	168	13354	2.041	ug/ml	96
67) 2,4-Dinitrotoluene	7.963	165	2504M2	1.642	ug/ml	
68) 4-Nitrophenol	7.929	65	2471	1.985	ug/ml#	87
69) 2,3,5,6-Tetrachlorophenol	8.052	232	1871	1.656	ug/ml	88
70) 2,3,4,6-Tetrachlorophenol	8.091	232	2182	1.910	ug/ml#	71
71) Diethyl phthalate	8.222	149	10607	1.898	ug/ml	100
72) Fluorene	8.290	166	10592	2.013	ug/ml	99
73) 4-Chlorophenyl phenyl ...	8.307	204	4537	1.995	ug/ml	92

Data Path : I:\8270\SV103\181204nical\
Data File : ABNL2.d
Acq On : 5 Dec 2018 3:33 am
Operator : SV103:cb
Sample : IL9,32,,ABNL2 Lot#7790
Misc : wg1186012,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 05 17:25:54 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 17:24:49 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\181204nical\ABNL7.d
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74)	4-Nitroaniline	8.322	138	2393	1.695	ug/ml	85
75)	4,6-Dinitro-o-cresol	8.356	198	1256	1.376	ug/ml#	49
76)	NDPA/DPA	8.427	169	8361	1.882	ug/ml	95
77)	Azobenzene	8.458	77	12608	2.117	ug/ml	93
79)	4-Bromophenyl phenyl e...	8.779	248	2508	2.050	ug/ml	93
80)	Hexachlorobenzene	8.830	284	2595	1.961	ug/ml#	63
81)	Pentachlorophenol	9.026	266	1410	1.683	ug/ml#	18
88)	Phenanthrene	9.217	178	15740	2.018	ug/ml	97
89)	Anthracene	9.268	178	15068	1.942	ug/ml	99
90)	Carbazole	9.438	167	13670	1.900	ug/ml	95
91)	Di-n-butylphthalate	9.822	149	17007	1.847	ug/ml#	93
92)	Fluoranthene	10.376	202	15233	1.994	ug/ml#	94
93)	Benzidine	10.538	184	9551	1.823	ug/ml	97
94)	Pyrene	10.600	202	15707	1.983	ug/ml	99
96)	Butyl benzyl phthalate	11.407	149	7159	1.755	ug/ml	94
104)	Benzo(a)anthracene	12.055	228	14843	1.980	ug/ml	99
105)	3,3'-Dichlorobenzidine	12.061	252	5073	1.860	ug/ml#	89
106)	Chrysene	12.103	228	14355	2.028	ug/ml	99
107)	Bis(2-ethylhexyl)phtha...	12.231	149	10642	1.798	ug/ml#	96
108)	Di-n-octylphthalate	13.223	149	17104	1.670	ug/ml#	76
109)	Benzo(b)fluoranthene	13.626	252	13509	1.969	ug/ml#	95
110)	Benzo(k)fluoranthene	13.672	252	13819	2.005	ug/ml#	94
111)	Benzo(a)pyrene	14.118	252	12758	1.918	ug/ml#	90
113)	Indeno(1,2,3-cd)pyrene	15.820	276	13016	1.991	ug/mL#	89
114)	Dibenzo(a,h)anthracene	15.871	278	12909	1.933	ug/ml#	90
115)	Benzo(ghi)perylene	16.192	276	13986	2.018	ug/ml#	89

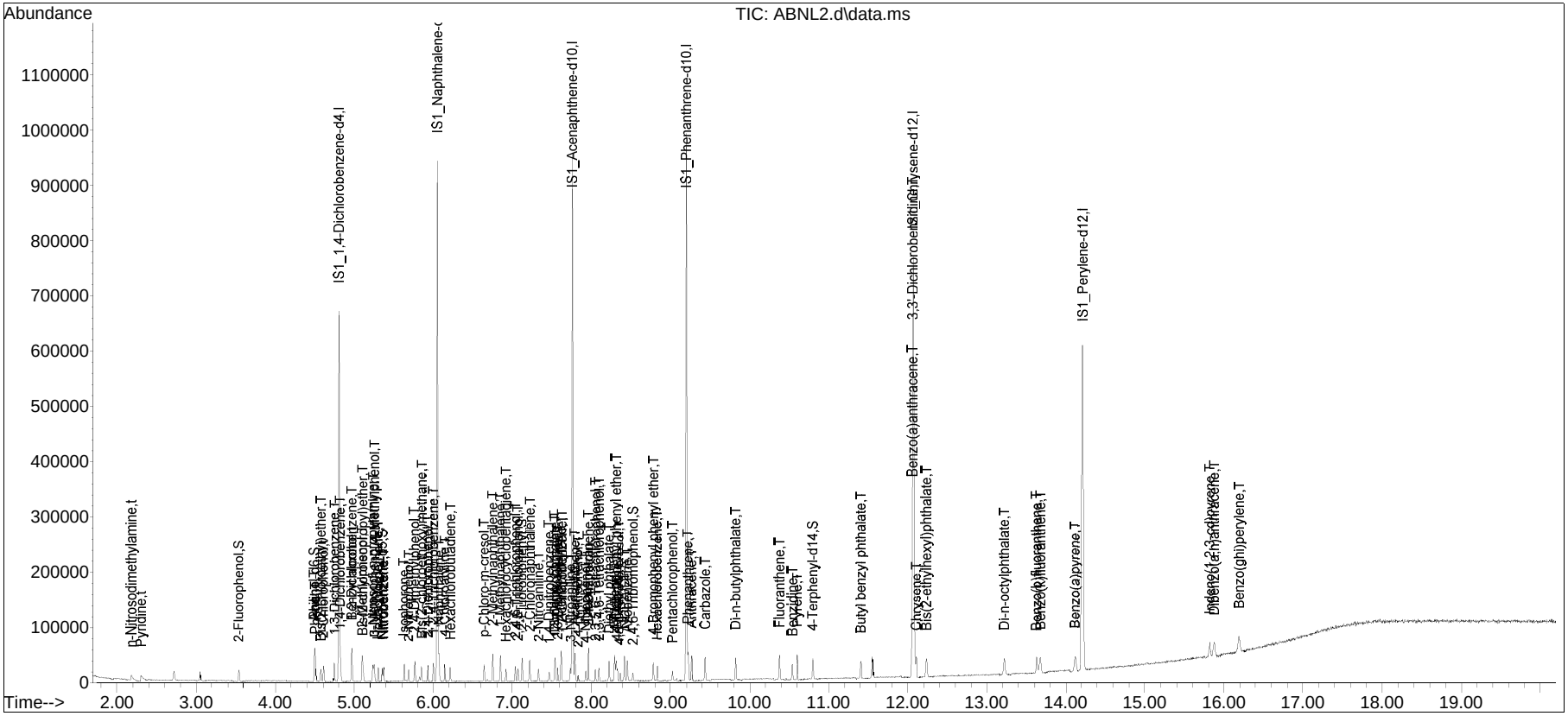
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181204nical\
Data File : ABNL2.d
Acq On : 5 Dec 2018 3:33 am
Operator : SV103:cb
Sample : IL9,32,,ABNL2 Lot#7790
Misc : wg1186012,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 05 17:25:54 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 17:24:49 2018
Response via : Initial Calibration

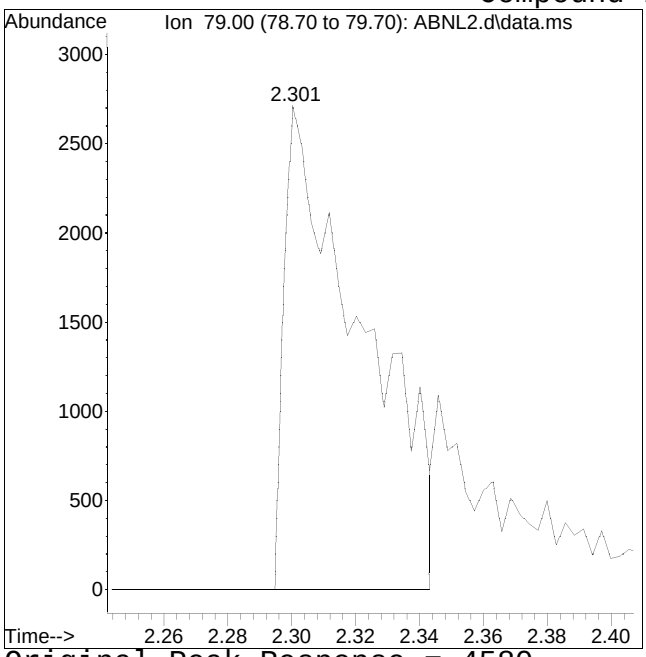
Sub List : ABNical - ABN ical sublistcal\ABNL7.d•



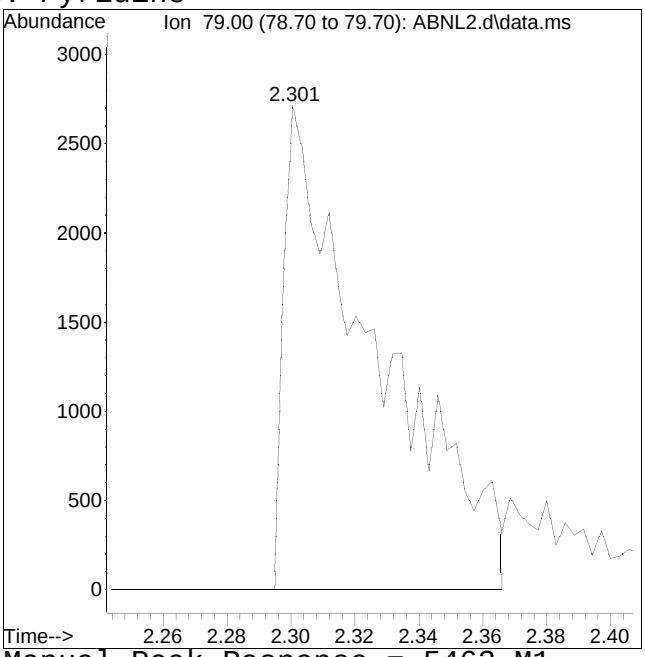
Manual Integration Report

Data Path : I:\8270\SV103\181204nical\QMethod : FS181204nSV103.m
Data File : ABNL2.d Operator : SV103:cb
Date Inj'd : 12/5/2018 3:33 am Instrument : SV103
Sample : IL9,32,,ABNL2 Lot#7790 Quant Date : 12/5/2018 5:25 pm

Compound #3: Pyridine



Original Peak Response = 4580



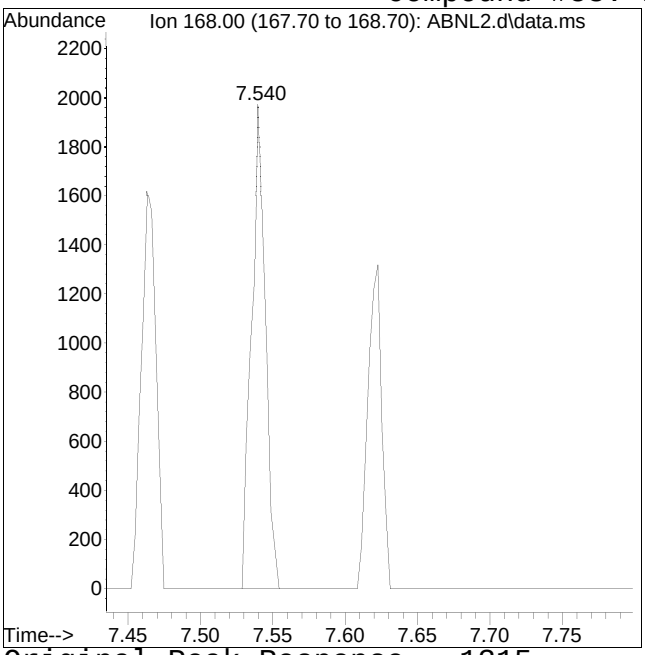
Manual Peak Response = 5462 M1

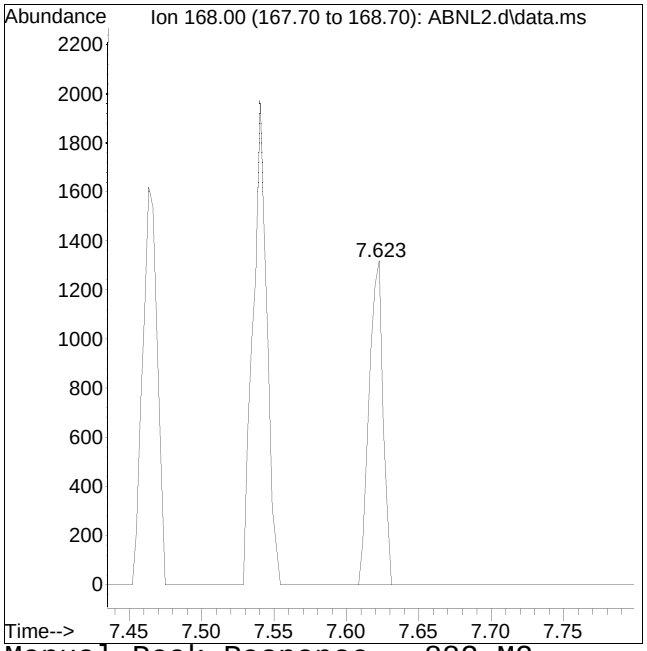
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\8270\SV103\181204nical\QMethod : FS181204nSV103.m
Data File : ABNL2.d Operator : SV103:cb
Date Inj'd : 12/5/2018 3:33 am Instrument : SV103
Sample : IL9,32,,ABNL2 Lot#7790 Quant Date : 12/5/2018 5:25 pm

Compound #53: 1,2-Dinitrobenzene



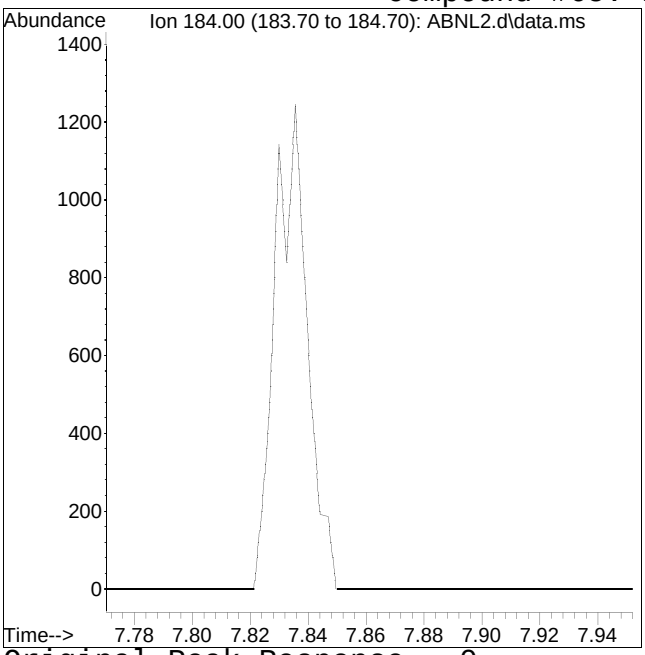


Original Peak Response = 1315 Manual Peak Response = 882 M2
M2 = Peak not found by automatic integration algorithm.

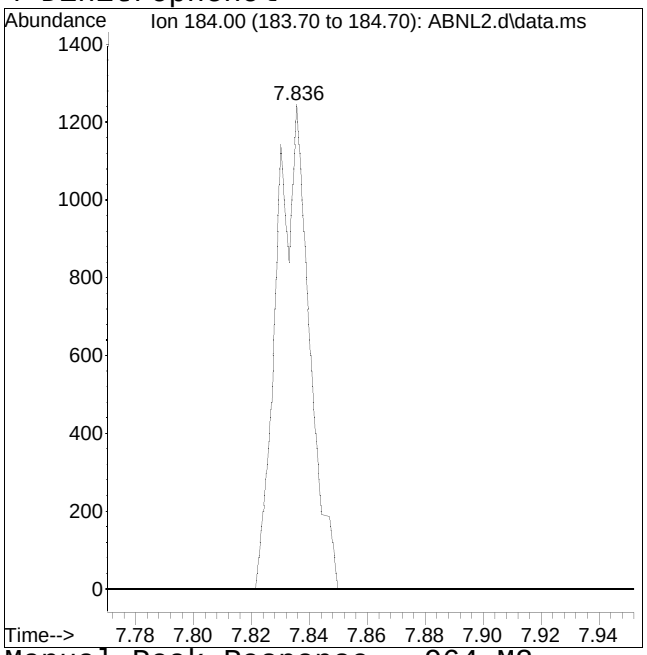
Manual Integration Report

Data Path : I:\8270\SV103\181204nical\QMethod : FS181204nSV103.m
Data File : ABNL2.d Operator : SV103:cb
Date Inj'd : 12/5/2018 3:33 am Instrument : SV103
Sample : IL9,32,,ABNL2 Lot#7790 Quant Date : 12/5/2018 5:25 pm

Compound #65: 2,4-Dinitrophenol



Original Peak Response = 0



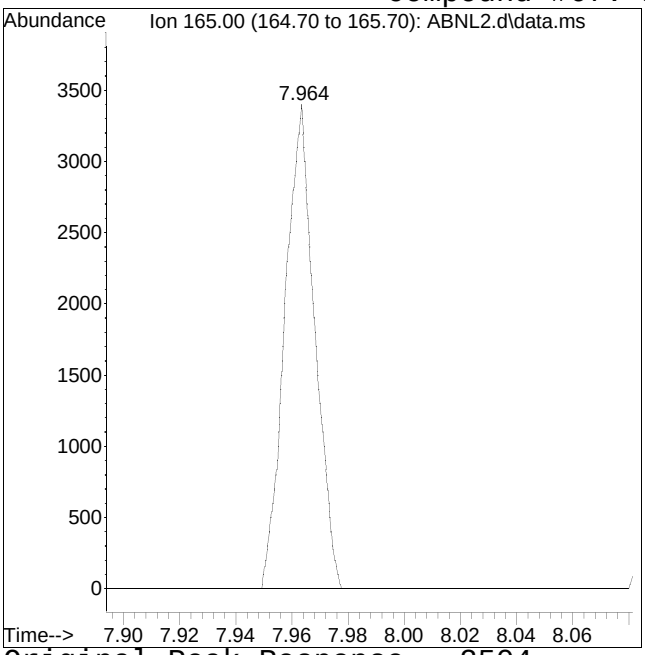
Manual Peak Response = 964 M2

M2 = Peak not found by automatic integration algorithm.

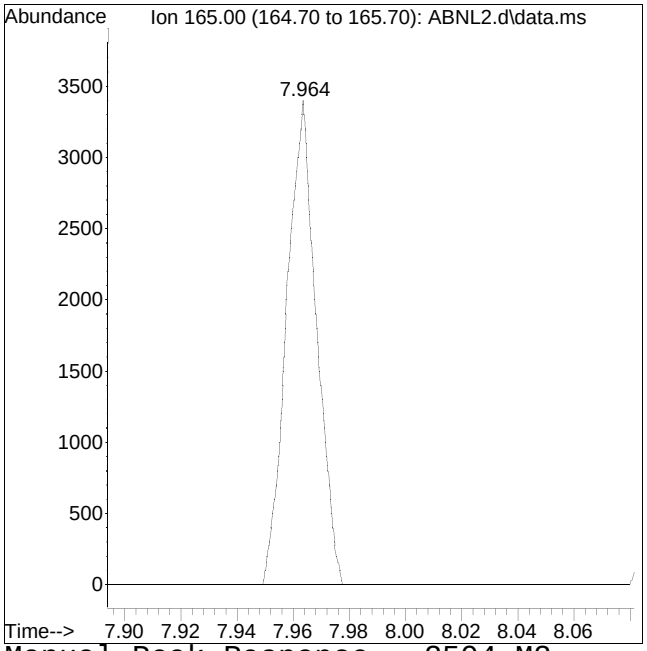
Manual Integration Report

Data Path : I:\8270\SV103\181204nical\QMethod : FS181204nSV103.m
Data File : ABNL2.d Operator : SV103:cb
Date Inj'd : 12/5/2018 3:33 am Instrument : SV103
Sample : IL9,32,,ABNL2 Lot#7790 Quant Date : 12/5/2018 5:25 pm

Compound #67: 2,4-Dinitrotoluene



Original Peak Response = 2504



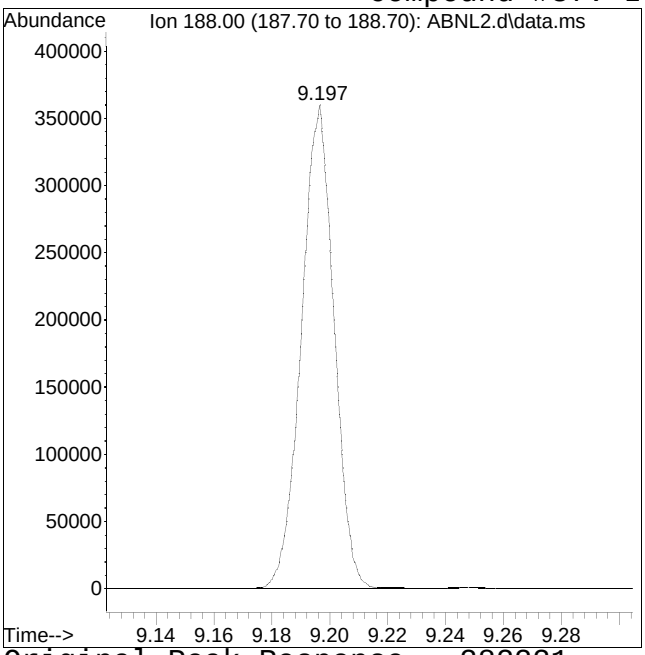
Manual Peak Response = 2504 M2

M2 = Peak not found by automatic integration algorithm.

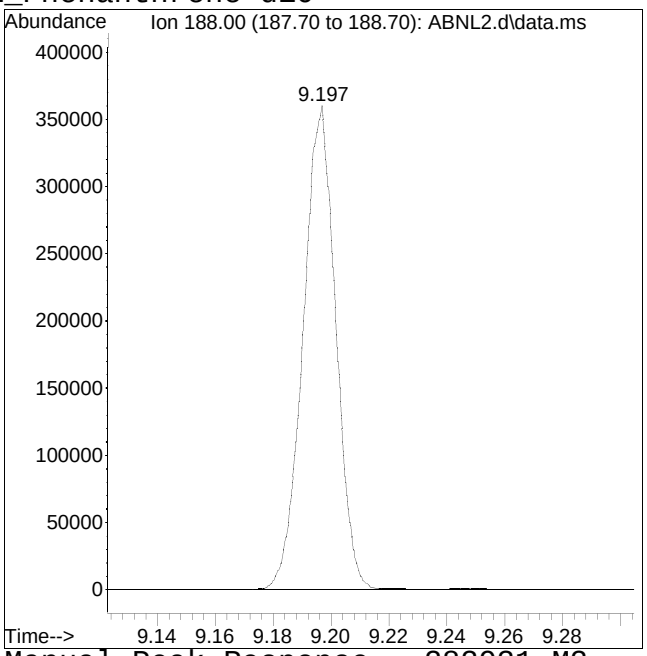
Manual Integration Report

Data Path : I:\8270\SV103\181204nical\QMethod : FS181204nSV103.m
Data File : ABNL2.d Operator : SV103:cb
Date Inj'd : 12/5/2018 3:33 am Instrument : SV103
Sample : IL9,32,,ABNL2 Lot#7790 Quant Date : 12/5/2018 5:25 pm

Compound #87: IS1_Phenanthrene-d10



Original Peak Response = 282221



Manual Peak Response = 282931 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181204nical\
Data File : ABNL1.d
Acq On : 5 Dec 2018 3:58 am
Operator : SV103:cb
Sample : IL10,32,,ABNL1 Lot#7789
Misc : wg1186012,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 05 17:25:32 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 17:24:49 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\181204nical\ABNL7.d
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	4.804	152	80531	40.000 ug/ml	0.00
Standard Area 1 = 88720			Recovery = 90.77%		
34) IS1_Naphthalene-d8	6.049	136	349891	40.000 ug/ml	0.00
Standard Area 1 = 394538			Recovery = 88.68%		
62) IS1_Acenaphthene-d10	7.759	164	154306	40.000 ug/ml	0.00
Standard Area 1 = 185698			Recovery = 83.10%		
87) IS1_Phenanthrene-d10	9.197	188	291911	40.000 ug/ml	0.00
Standard Area 1 = 353061			Recovery = 82.68%		
103) IS1_Chrysene-d12	12.067	240	260352	40.000 ug/ml	# 0.00
Standard Area 1 = 306161			Recovery = 85.04%		
112) IS1_Perylene-d12	14.218	264	273857	40.000 ug/ml	0.00
Standard Area 1 = 309194			Recovery = 88.57%		
System Monitoring Compounds					
4) 2-Fluorophenol	3.537	112	2702	1.011 ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 2.02%#		
7) Phenol-d6	4.494	99	3410	1.015 ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 2.03%#		
19) Nitrobenzene-d5	5.355	82	3233	1.040 ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 4.16%#		
45) 2-Fluorobiphenyl	7.120	172	5316	0.975 ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 3.90%#		
78) 2,4,6-Tribromophenol	0.000	330	0	0.000 ug/ml	
Spiked Amount 50.000	Range 15 - 110		Recovery = 0.00%#		
95) 4-Terphenyl-d14	10.802	244	5506	0.969 ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 3.88%#		
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	2.187	74	2106M1	1.181 ug/ml	
3) Pyridine	2.321	79	3026	1.085 ug/ml	89
5) Aniline	4.497	93	4530	1.048 ug/ml#	52
6) 2-Chlorophenol	4.605	128	3044	1.029 ug/ml#	77
8) Phenol	4.508	94	4335	1.097 ug/ml#	52
9) Bis(2-chloroethyl)ether	4.574	93	3230	1.147 ug/ml	98
10) 1,3-Dichlorobenzene	4.747	146	3170	1.018 ug/ml	99
11) 1,4-Dichlorobenzene	4.818	146	3453	1.076 ug/ml	89
12) 1,2-Dichlorobenzene	4.969	146	3177	1.040 ug/ml	91
13) Benzyl alcohol	4.969	79	2414	1.031 ug/ml	99
14) Bis(2-chloroisopropyl)...	5.105	45	7189	1.246 ug/ml#	79

Data Path : I:\8270\SV103\181204nical\
Data File : ABNL1.d
Acq On : 5 Dec 2018 3:58 am
Operator : SV103:cb
Sample : IL10,32,,ABNL1 Lot#7789
Misc : wg1186012,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 05 17:25:32 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 17:24:49 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\181204nical\ABNL7.d
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	5.094	108	2714	1.029	ug/ml#	85
16) Hexachloroethane	5.298	117	1344	1.095	ug/ml#	16
17) n-Nitrosodi-n-propylamine	5.236	70	2202	1.053	ug/ml#	64
18) 3-Methylphenol/4-Methy...	5.253	108	2766	1.006	ug/ml#	91
20) Nitrobenzene	5.372	77	3217	1.023	ug/ml#	91
21) Isophorone	5.628	82	5347	1.002	ug/ml#	68
22) 2-Nitrophenol	5.685	139	1385	0.908	ug/ml#	30
23) 2,4-Dimethylphenol	5.764	107	2494	0.938	ug/ml	91
24) Bis(2-chloroethoxy)met...	5.847	93	3455	1.010	ug/ml#	91
25) 2,4-Dichlorophenol	5.926	162	2024	0.928	ug/ml#	71
26) 1,2,4-Trichlorobenzene	6.000	180	2436	1.017	ug/ml#	82
35) Naphthalene	6.068	128	8903	1.036	ug/ml#	87
36) Benzoic Acid	0.000		0	N.D.		
37) 4-Chloroaniline	6.139	65	1131	1.045	ug/ml	90
38) Hexachlorobutadiene	6.213	225	1097	1.000	ug/ml#	19
39) p-Chloro-m-cresol	6.642	107	2355	0.999	ug/ml#	88
40) 2-Methylnaphthalene	6.748	142	5838	1.028	ug/ml	96
41) 1-Methylnaphthalene	6.841	115	1803	1.001	ug/ml	80
42) Hexachlorocyclopentadiene	6.918	237	1160	0.867	ug/ml#	29
43) 2,4,6-Trichlorophenol	7.037	196	1373	0.947	ug/ml#	74
44) 2,4,5-Trichlorophenol	7.071	196	1412	0.925	ug/ml#	77
46) 2-Chloronaphthalene	7.216	162	4798	0.976	ug/ml	97
47) 2-Nitroaniline	7.336	138	1476	0.839	ug/ml#	65
48) 1,4-Dinitrobenzene	0.000		0	N.D.		
49) 1,3-Dinitrobenzene	0.000		0	N.D.		
50) Dimethyl phthalate	7.532	163	5152	0.927	ug/ml#	77
51) Acenaphthylene	7.617	152	7517	0.928	ug/ml	98
52) 2,6-Dinitrotoluene	7.574	165	1013	0.829	ug/ml#	21
53) 1,2-Dinitrobenzene	0.000		0	N.D.		
63) 3-Nitroaniline	7.734	138	1248	0.843	ug/ml#	34
64) Acenaphthene	7.788	154	4750	1.022	ug/ml	97
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	7.958	168	6604	0.975	ug/ml	99
67) 2,4-Dinitrotoluene	7.964	165	1309M2	0.829	ug/ml	
68) 4-Nitrophenol	7.927	65	1106	0.858	ug/ml#	63
69) 2,3,5,6-Tetrachlorophenol	8.049	232	1071	0.916	ug/ml#	16
70) 2,3,4,6-Tetrachlorophenol	8.092	232	1040	0.880	ug/ml#	17
71) Diethyl phthalate	8.222	149	5584	0.966	ug/ml#	62
72) Fluorene	8.290	166	5462	1.003	ug/ml#	95
73) 4-Chlorophenyl phenyl ...	8.307	204	2349	0.998	ug/ml#	76

Data Path : I:\8270\SV103\181204nical\
Data File : ABNL1.d
Acq On : 5 Dec 2018 3:58 am
Operator : SV103:cb
Sample : IL10,32,,ABNL1 Lot#7789
Misc : wg1186012,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 05 17:25:32 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 17:24:49 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\181204nical\ABNL7.d
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74) 4-Nitroaniline	8.325	138	1163	0.796	ug/ml#	50
75) 4,6-Dinitro-o-cresol	8.356	198	590M1	0.624	ug/ml	
76) NDPA/DPA	8.427	169	4527	0.984	ug/ml	96
77) Azobenzene	8.461	77	5902	0.958	ug/ml	96
79) 4-Bromophenyl phenyl e...	8.782	248	1285	1.015	ug/ml	89
80) Hexachlorobenzene	8.827	284	1293	0.944	ug/ml#	36
81) Pentachlorophenol	9.026	266	717M2	0.827	ug/ml	
88) Phenanthrene	9.217	178	8160	1.014	ug/ml	99
89) Anthracene	9.268	178	7851	0.981	ug/ml	97
90) Carbazole	9.438	167	7227	0.974	ug/ml#	83
91) Di-n-butylphthalate	9.822	149	8726	0.918	ug/ml#	78
92) Fluoranthene	10.376	202	7846	0.995	ug/ml	95
93) Benzidine	10.535	184	4616	0.854	ug/ml#	69
94) Pyrene	10.601	202	8246	1.009	ug/ml	97
96) Butyl benzyl phthalate	11.408	149	3728	0.886	ug/ml#	83
104) Benzo(a)anthracene	12.058	228	8043	1.050	ug/ml#	82
105) 3,3'-Dichlorobenzidine	12.055	252	2468	0.885	ug/ml#	82
106) Chrysene	12.101	228	7298	1.009	ug/ml	97
107) Bis(2-ethylhexyl)phtha...	12.232	149	5539	0.916	ug/ml#	92
108) Di-n-octylphthalate	13.229	149	8738	0.835	ug/ml#	68
109) Benzo(b)fluoranthene	13.627	252	7165	1.022	ug/ml#	93
110) Benzo(k)fluoranthene	13.669	252	7010	0.995	ug/ml#	85
111) Benzo(a)pyrene	14.118	252	6673	0.981	ug/ml#	95
113) Indeno(1,2,3-cd)pyrene	15.820	276	6709	0.977	ug/mL#	88
114) Dibenzo(a,h)anthracene	15.874	278	6582	0.938	ug/ml#	86
115) Benzo(ghi)perylene	16.190	276	7443	1.022	ug/ml	92

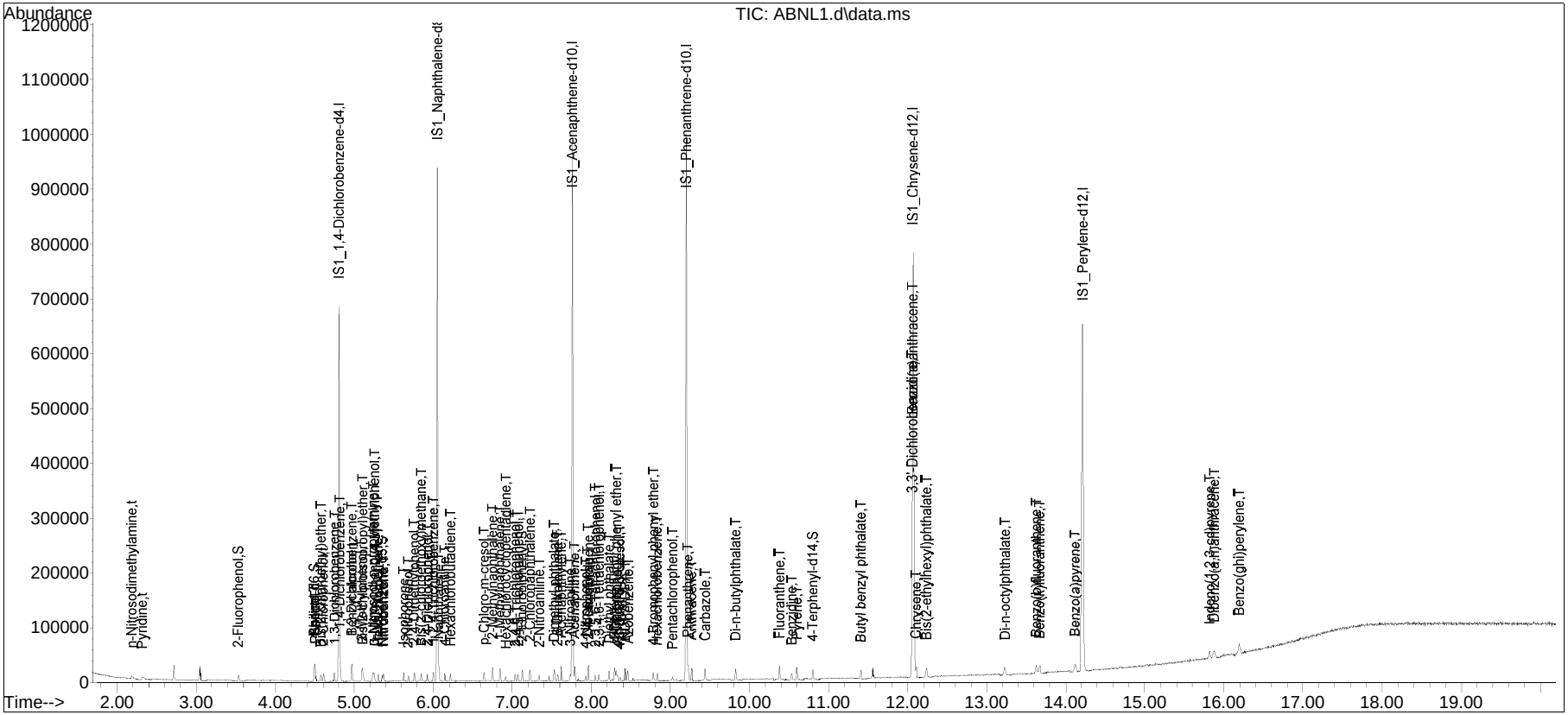
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181204nical\
Data File : ABNL1.d
Acq On : 5 Dec 2018 3:58 am
Operator : SV103:cb
Sample : IL10,32,,ABNL1 Lot#7789
Misc : wg1186012,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 05 17:25:32 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 17:24:49 2018
Response via : Initial Calibration

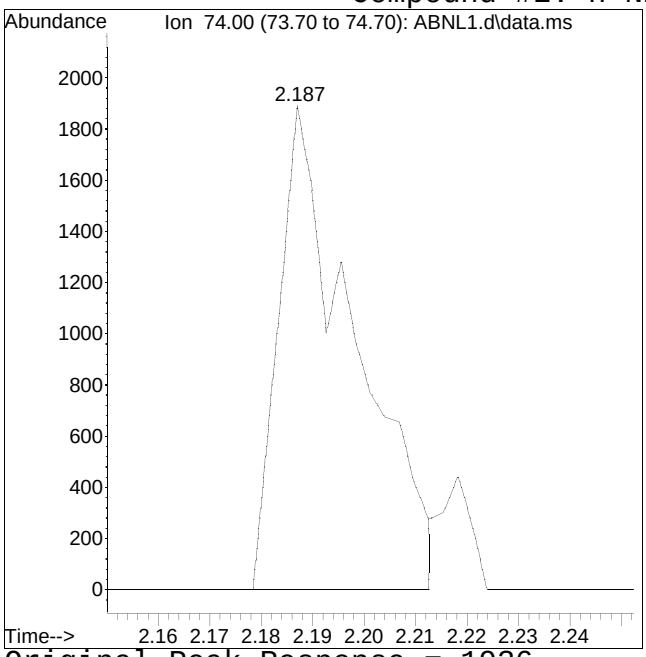
Sub List : ABNical - ABN ical sublistcal\ABNL7.d•

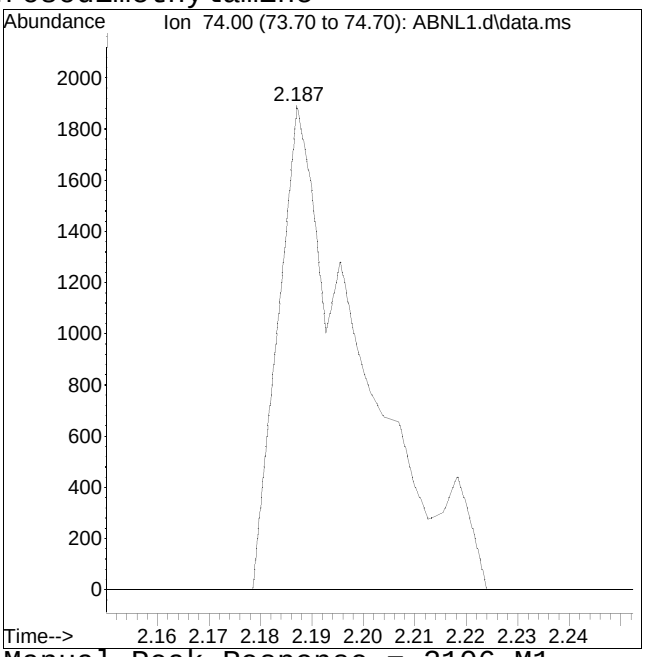


Manual Integration Report

Data Path : I:\8270\SV103\181204nical\QMethod : FS181204nSV103.m
Data File : ABNL1.d Operator : SV103:cb
Date Inj'd : 12/5/2018 3:58 am Instrument : SV103
Sample : IL10,32,,ABNL1 Lot#7789 Quant Date : 12/5/2018 5:25 pm

Compound #2: n-Nitrosodimethylamine



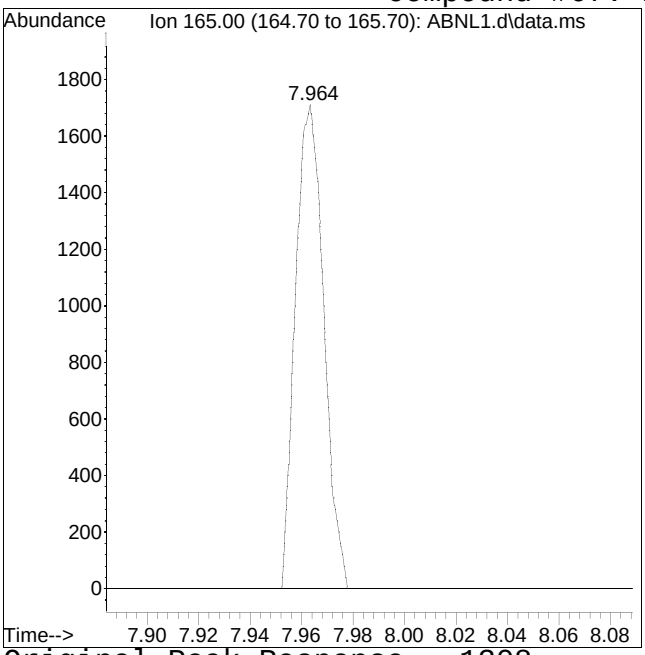


Original Peak Response = 1936 Manual Peak Response = 2106 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

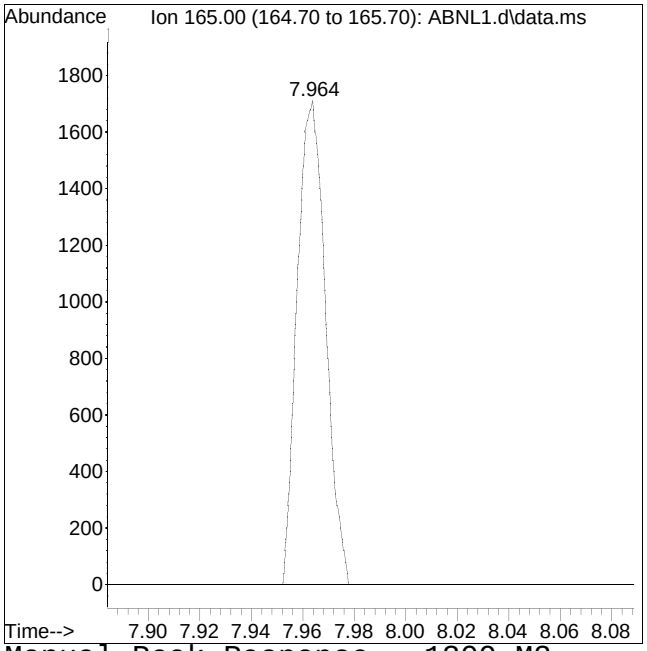
Manual Integration Report

Data Path : I:\8270\SV103\181204nical\QMethod : FS181204nSV103.m
Data File : ABNL1.d Operator : SV103:cb
Date Inj'd : 12/5/2018 3:58 am Instrument : SV103
Sample : IL10,32,,ABNL1 Lot#7789 Quant Date : 12/5/2018 5:25 pm

Compound #67: 2,4-Dinitrotoluene



Original Peak Response = 1308



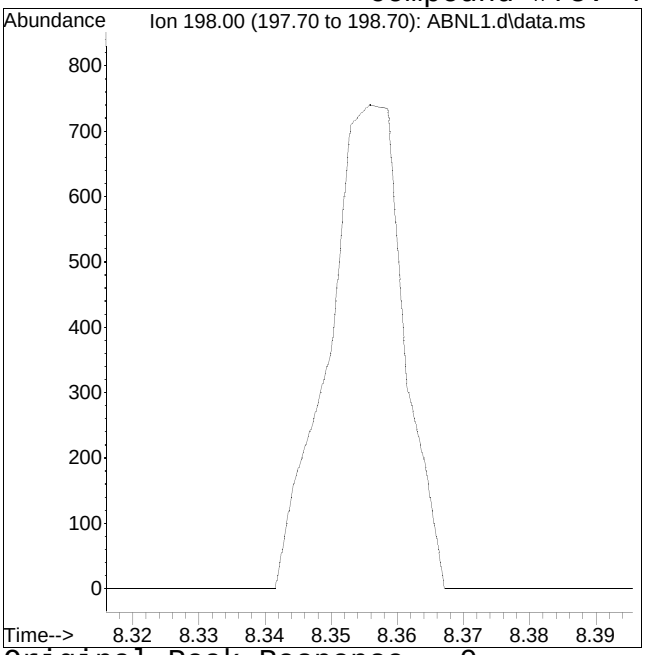
Manual Peak Response = 1309 M2

M2 = Peak not found by automatic integration algorithm.

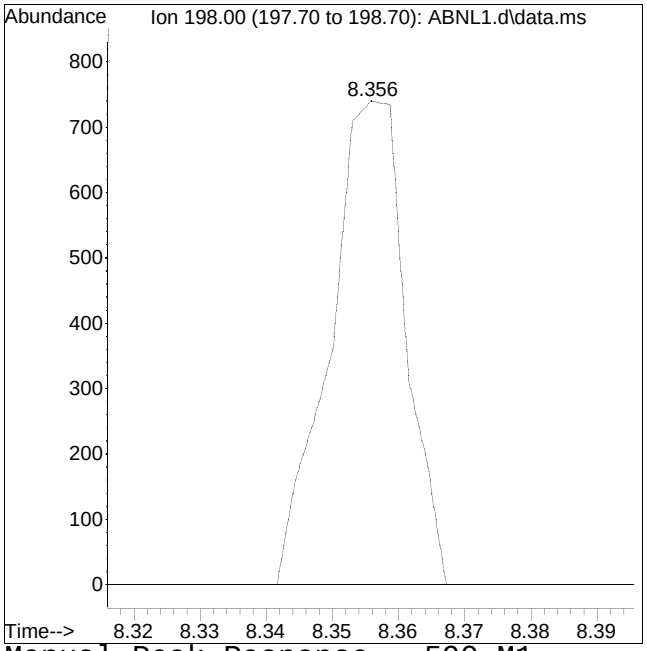
Manual Integration Report

Data Path : I:\8270\SV103\181204nical\QMethod : FS181204nSV103.m
Data File : ABNL1.d Operator : SV103:cb
Date Inj'd : 12/5/2018 3:58 am Instrument : SV103
Sample : IL10,32,,ABNL1 Lot#7789 Quant Date : 12/5/2018 5:25 pm

Compound #75: 4,6-Dinitro-o-cresol



Original Peak Response = 0



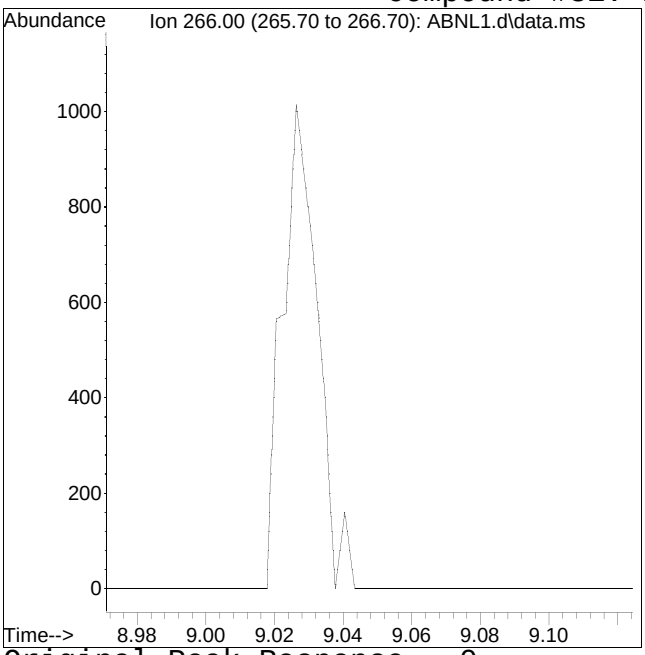
Manual Peak Response = 590 M1

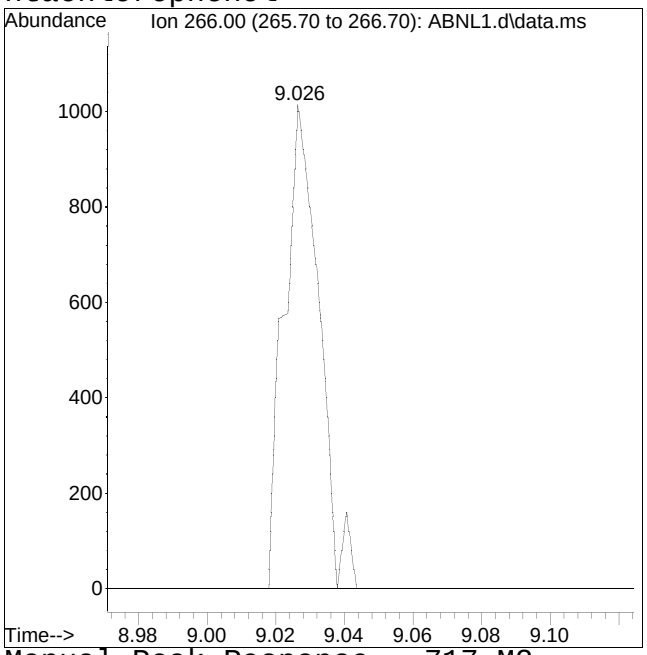
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\8270\SV103\181204nical\QMethod : FS181204nSV103.m
Data File : ABNL1.d Operator : SV103:cb
Date Inj'd : 12/5/2018 3:58 am Instrument : SV103
Sample : IL10,32,,ABNL1 Lot#7789 Quant Date : 12/5/2018 5:25 pm

Compound #81: Pentachlorophenol





Original Peak Response = 0 Manual Peak Response = 717 M2
M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181204nical\
Data File : AP9L10.d
Acq On : 5 Dec 2018 4:23 am
Operator : SV103:cb
Sample : IL11,32,,AP9L200 Lot#7799
Misc : wg1186012,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 05 12:07:54 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 11:40:27 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\181204nical\AP9L7.d
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
27) IS2_1,4-Dichlorobenzen...	4.804	152	73658	40.000 ug/ml	0.00
Standard Area 1 = 73923			Recovery =	99.64%	
54) IS2_Naphthalene-d8	6.048	136	354654	40.000 ug/ml	0.00
Standard Area 1 = 329908			Recovery =	107.50%	
82) IS2_Acenaphthene-d10	7.759	164	165897	40.000 ug/ml	0.00
Standard Area 1 = 147866			Recovery =	112.19%	
97) IS2_Phenanthrene-d10	9.197	188	304503	40.000 ug/ml	0.00
Standard Area 1 = 276146			Recovery =	110.27%	
System Monitoring Compounds					
Target Compounds					Qvalue
28) Benzaldehyde	4.375	105	440475	205.931 ug/ml	99
29) Acetophenone	5.216	105	755699	211.473 ug/ml	95
30) m-Toluidine	5.298	106	801779	207.971 ug/ml	99
31) 2-Chloroaniline	5.656	127	731650	214.141 ug/ml	96
55) a-Terpineol	6.114	59	532908	193.302 ug/ml	98
56) 3-Chloroaniline	6.128	65	236186	192.770 ug/ml	85
57) 2,6-Dichlorophenol	6.153	162	430308	202.171 ug/ml	99
58) 1-chloro-2-nitrobenzene	6.406	111	238975	204.559 ug/ml	99
59) Caprolactam	6.509	55	312696	200.611 ug/ml	95
60) 1,2,4,5-Tetrachloroben...	6.921	216	408946	208.045 ug/ml	99
61) Biphenyl	7.216	154	1316688	209.259 ug/ml	98
83) Dichloran	8.901	206	134766	229.970 ug/ml	91
84) Pentachloronitrobenzene	9.043	237	110203	214.111 ug/ml	89
98) Diphenamid	10.111	167	818780	219.862 ug/ml	98

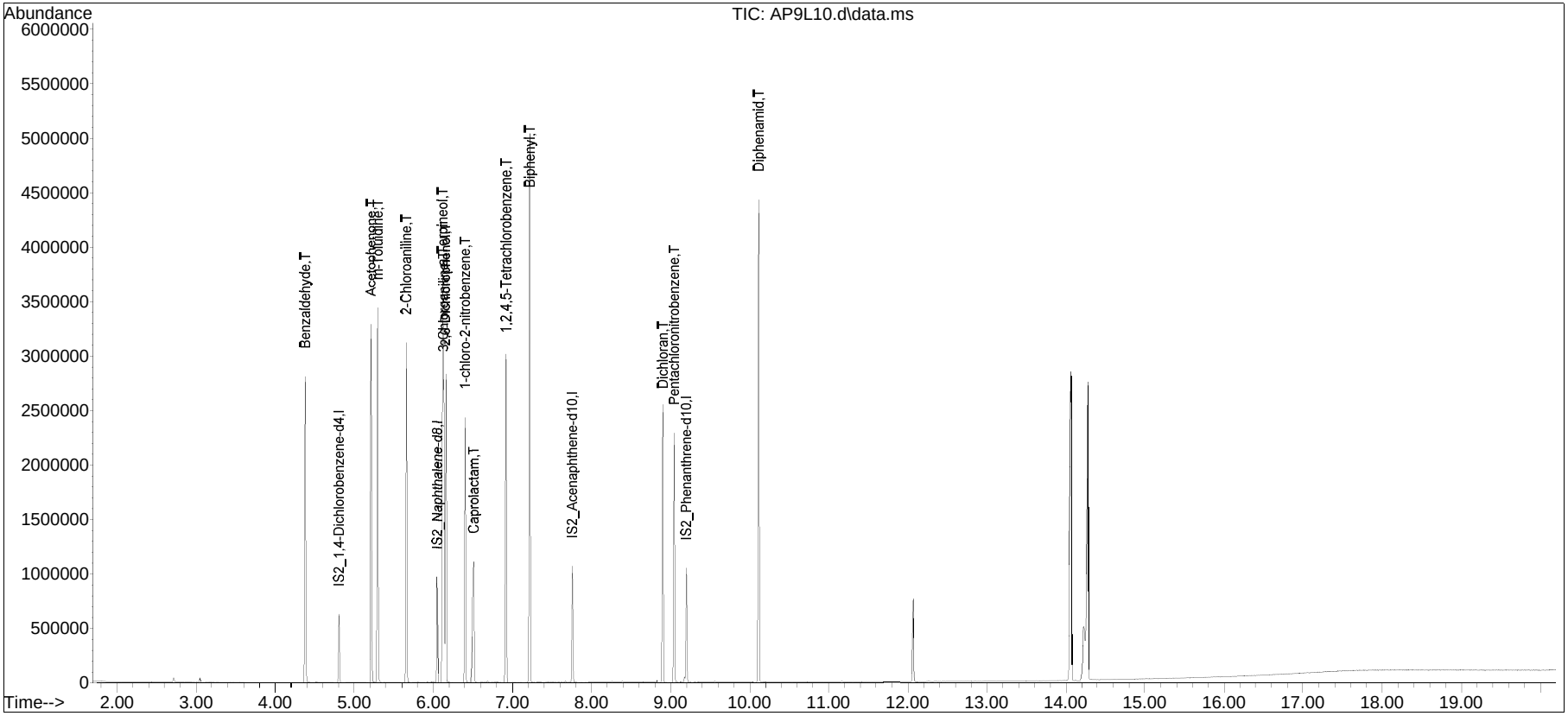
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181204nical\
Data File : AP9L10.d
Acq On : 5 Dec 2018 4:23 am
Operator : SV103:cb
Sample : IL11,32,,AP9L200 Lot#7799
Misc : wg1186012,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 05 12:07:54 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 11:40:27 2018
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistcal\AP9L7.d•



Manual Integration Report

Data Path	: I:\8270\SV103\181204nical\	QMethod	: FS181204nSV103.m
Data File	: AP9L10.d	Operator	: SV103:cb
Date Inj'd	: 12/5/2018 4:23 am	Instrument	: SV103
Sample	: IL11,32,,AP9L200 Lot#7799	Quant Date	: 12/5/2018 11:42 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181204nical\
Data File : AP9L9.d
Acq On : 5 Dec 2018 4:49 am
Operator : SV103:cb
Sample : IL12,32,,AP9L150 Lot#7808
Misc : wg1186012,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 05 12:13:04 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 11:40:27 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\181204nical\AP9L7.d
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.804	152	85107	40.000	ug/ml	0.00
Standard Area 1 = 73923			Recovery = 115.13%			
54) IS2_Naphthalene-d8	6.048	136	398822	40.000	ug/ml	0.00
Standard Area 1 = 329908			Recovery = 120.89%			
82) IS2_Acenaphthene-d10	7.759	164	182812	40.000	ug/ml	0.00
Standard Area 1 = 147866			Recovery = 123.63%			
97) IS2_Phenanthrene-d10	9.197	188	338701	40.000	ug/ml	0.00
Standard Area 1 = 276146			Recovery = 122.65%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.375	105	376839	152.479	ug/ml	99
29) Acetophenone	5.216	105	639180	154.805	ug/ml	97
30) m-Toluidine	5.296	106	672058	150.872	ug/ml	98
31) 2-Chloroaniline	5.656	127	604924	153.233	ug/ml	96
55) a-Terpineol	6.114	59	430457	138.848	ug/ml	100
56) 3-Chloroaniline	6.125	65	194085	140.865	ug/ml	84
57) 2,6-Dichlorophenol	6.154	162	357382	149.313	ug/ml	98
58) 1-chloro-2-nitrobenzene	6.407	111	196621	149.666	ug/ml	99
59) Caprolactam	6.503	55	250405	142.857	ug/ml	95
60) 1,2,4,5-Tetrachloroben...	6.918	216	335605	151.826	ug/ml	99
61) Biphenyl	7.213	154	1070198	151.248	ug/ml	98
83) Dichloran	8.898	206	109561	169.661	ug/ml	91
84) Pentachloronitrobenzene	9.043	237	90668	159.858	ug/ml	90
98) Diphenamid	10.112	167	674908	162.930	ug/ml	98

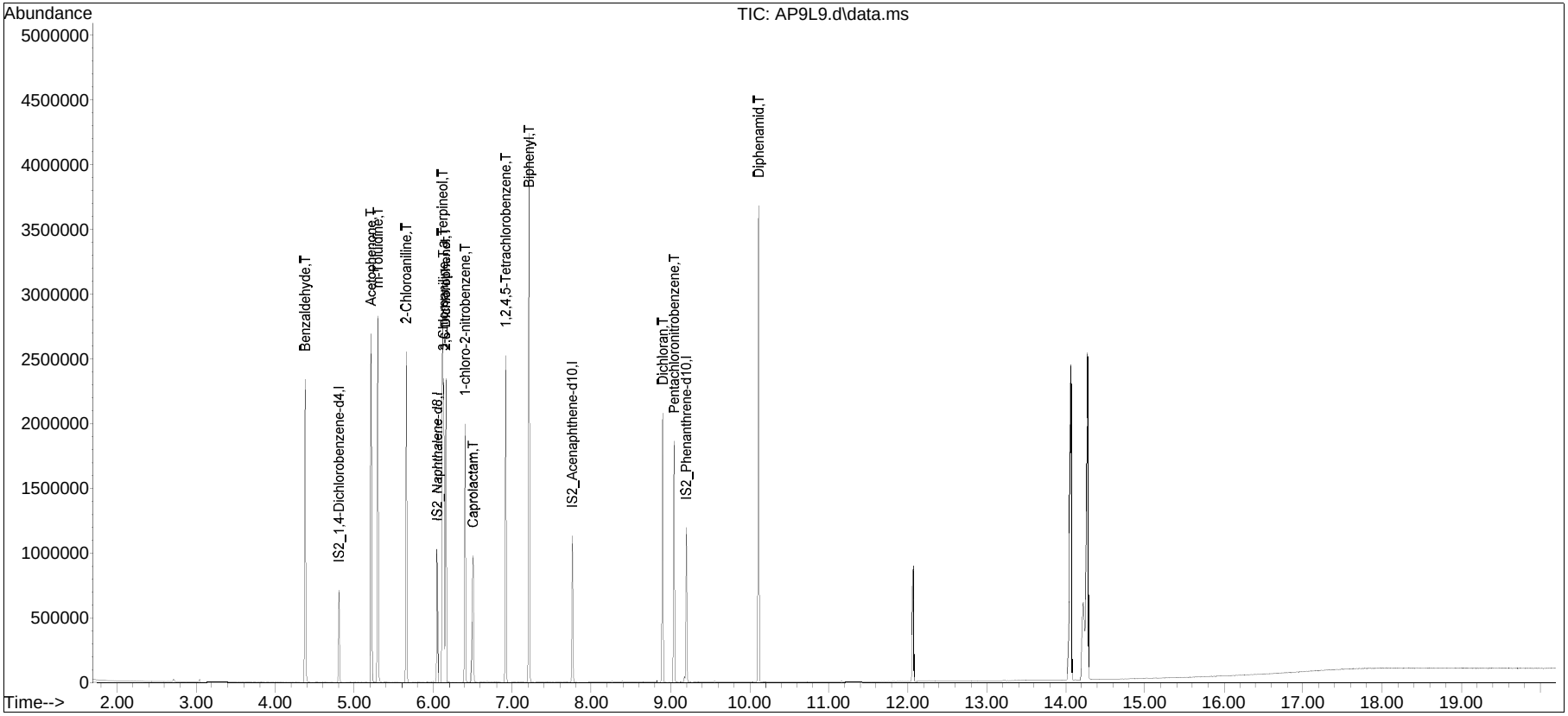
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181204nical\
Data File : AP9L9.d
Acq On : 5 Dec 2018 4:49 am
Operator : SV103:cb
Sample : IL12,32,,AP9L150 Lot#7808
Misc : wg1186012,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 05 12:13:04 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 11:40:27 2018
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistcal\AP9L7.d•



Manual Integration Report

Data Path	: I:\8270\SV103\181204nical\	QMethod	: FS181204nSV103.m
Data File	: AP9L9.d	Operator	: SV103:cb
Date Inj'd	: 12/5/2018 4:49 am	Instrument	: SV103
Sample	: IL12,32,,AP9L150 Lot#7808	Quant Date	: 12/5/2018 11:43 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181204nical\
Data File : AP9L8.d
Acq On : 5 Dec 2018 5:14 am
Operator : SV103:cb
Sample : IL13,32,,AP9L100 Lot#7807
Misc : wg1186012,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 05 12:12:38 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 11:40:27 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\181204nical\AP9L7.d
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.804	152	80999	40.000	ug/ml	0.00
Standard Area 1 = 73923			Recovery = 109.57%			
54) IS2_Naphthalene-d8	6.046	136	367115	40.000	ug/ml	0.00
Standard Area 1 = 329908			Recovery = 111.28%			
82) IS2_Acenaphthene-d10	7.759	164	166838	40.000	ug/ml	0.00
Standard Area 1 = 147866			Recovery = 112.83%			
97) IS2_Phenanthrene-d10	9.197	188	301347	40.000	ug/ml	0.00
Standard Area 1 = 276146			Recovery = 109.13%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.375	105	237473	100.961	ug/ml	99
29) Acetophenone	5.213	105	395747	100.708	ug/ml	96
30) m-Toluidine	5.295	106	419794	99.020	ug/ml	99
31) 2-Chloroaniline	5.654	127	375359	99.904	ug/ml	96
55) a-Terpineol	6.111	59	273715	95.915	ug/ml	99
56) 3-Chloroaniline	6.125	65	122232	96.377	ug/ml	85
57) 2,6-Dichlorophenol	6.151	162	219007	99.403	ug/ml	98
58) 1-chloro-2-nitrobenzene	6.404	111	121469	100.446	ug/ml	99
59) Caprolactam	6.495	55	157049	97.335	ug/ml	96
60) 1,2,4,5-Tetrachloroben...	6.918	216	207367	101.914	ug/ml	99
61) Biphenyl	7.213	154	665603	102.192	ug/ml	98
83) Dichloran	8.896	206	63908	108.440	ug/ml	91
84) Pentachloronitrobenzene	9.040	237	52716	101.843	ug/ml	90
98) Diphenamid	10.109	167	393862	106.869	ug/ml	96

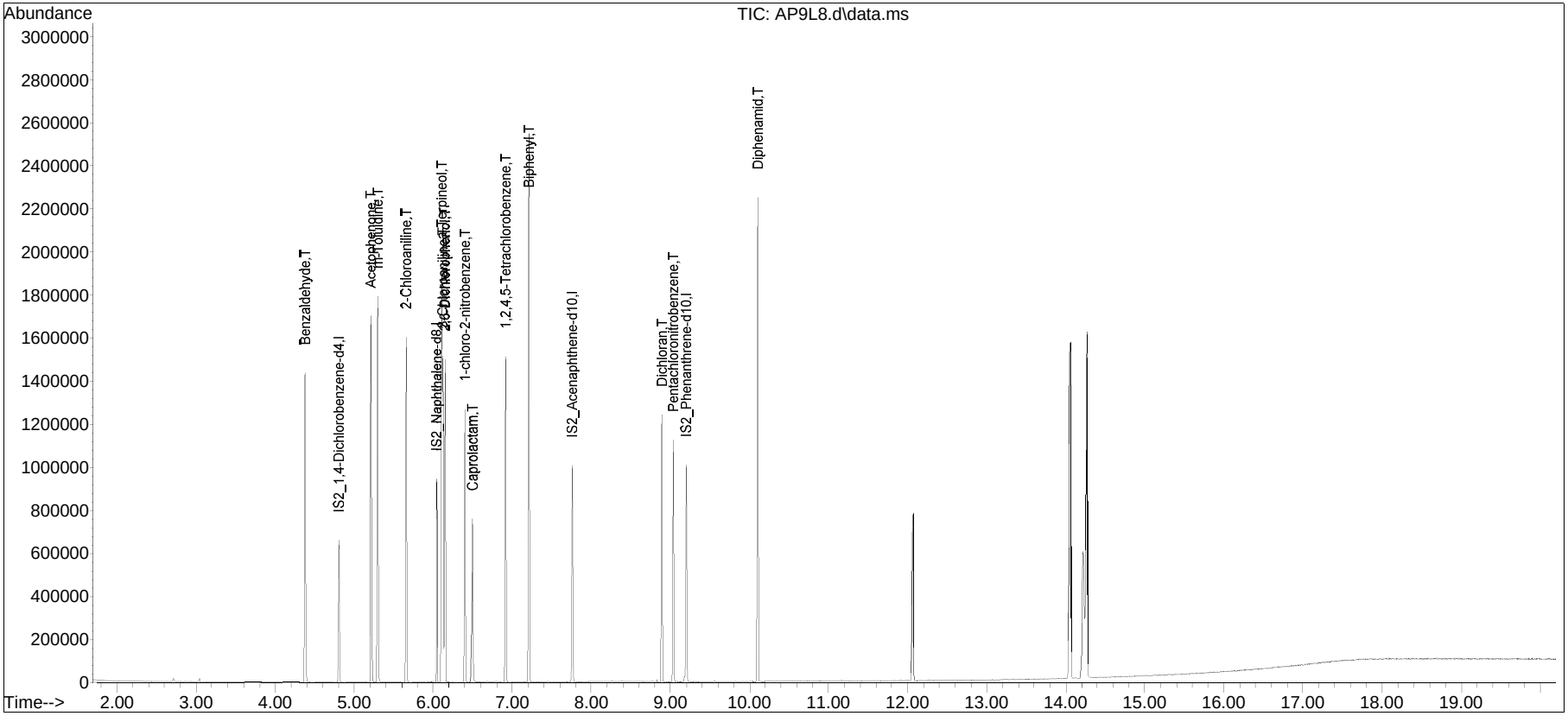
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181204nical\
Data File : AP9L8.d
Acq On : 5 Dec 2018 5:14 am
Operator : SV103:cb
Sample : IL13,32,,AP9L100 Lot#7807
Misc : wg1186012,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 05 12:12:38 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 11:40:27 2018
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistcal\AP9L7.d•



Manual Integration Report

Data Path	: I:\8270\SV103\181204nical\	QMethod	: FS181204nSV103.m
Data File	: AP9L8.d	Operator	: SV103:cb
Date Inj'd	: 12/5/2018 5:14 am	Instrument	: SV103
Sample	: IL13,32,,AP9L100 Lot#7807	Quant Date	: 12/5/2018 11:43 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181204nical\
Data File : AP9L7.d
Acq On : 5 Dec 2018 5:39 am
Operator : SV103:cb
Sample : IL14,32,,AP9L50 Lot#7806
Misc : wg1186012,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 05 12:12:13 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 11:40:27 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\181204nical\AP9L7.d
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.804	152	73923	40.000	ug/ml	0.00
Standard Area 1 = 73923			Recovery = 100.00%			
54) IS2_Naphthalene-d8	6.046	136	329908	40.000	ug/ml	0.00
Standard Area 1 = 329908			Recovery = 100.00%			
82) IS2_Acenaphthene-d10	7.759	164	147866	40.000	ug/ml	0.00
Standard Area 1 = 147866			Recovery = 100.00%			
97) IS2_Phenanthrene-d10	9.197	188	276146	40.000	ug/ml	0.00
Standard Area 1 = 276146			Recovery = 100.00%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.375	105	107311	49.990	ug/ml	99
29) Acetophenone	5.213	105	179318	50.000	ug/ml	95
30) m-Toluidine	5.296	106	193214	49.937	ug/ml	98
31) 2-Chloroaniline	5.654	127	171295	49.955	ug/ml	97
55) a-Terpineol	6.108	59	127928	49.884	ug/ml	97
56) 3-Chloroaniline	6.122	65	56988	50.001	ug/ml	88
57) 2,6-Dichlorophenol	6.148	162	98954	49.979	ug/ml	98
58) 1-chloro-2-nitrobenzene	6.404	111	54344	50.007	ug/ml	99
59) Caprolactam	6.483	55	71552	49.348	ug/ml	97
60) 1,2,4,5-Tetrachloroben...	6.915	216	91440	50.008	ug/ml	99
61) Biphenyl	7.211	154	292586	49.988	ug/ml	98
83) Dichloran	8.893	206	26115	49.998	ug/ml	90
84) Pentachloronitrobenzene	9.041	237	22944	50.013	ug/ml	89
98) Diphenamid	10.106	167	168872	50.003	ug/ml	91

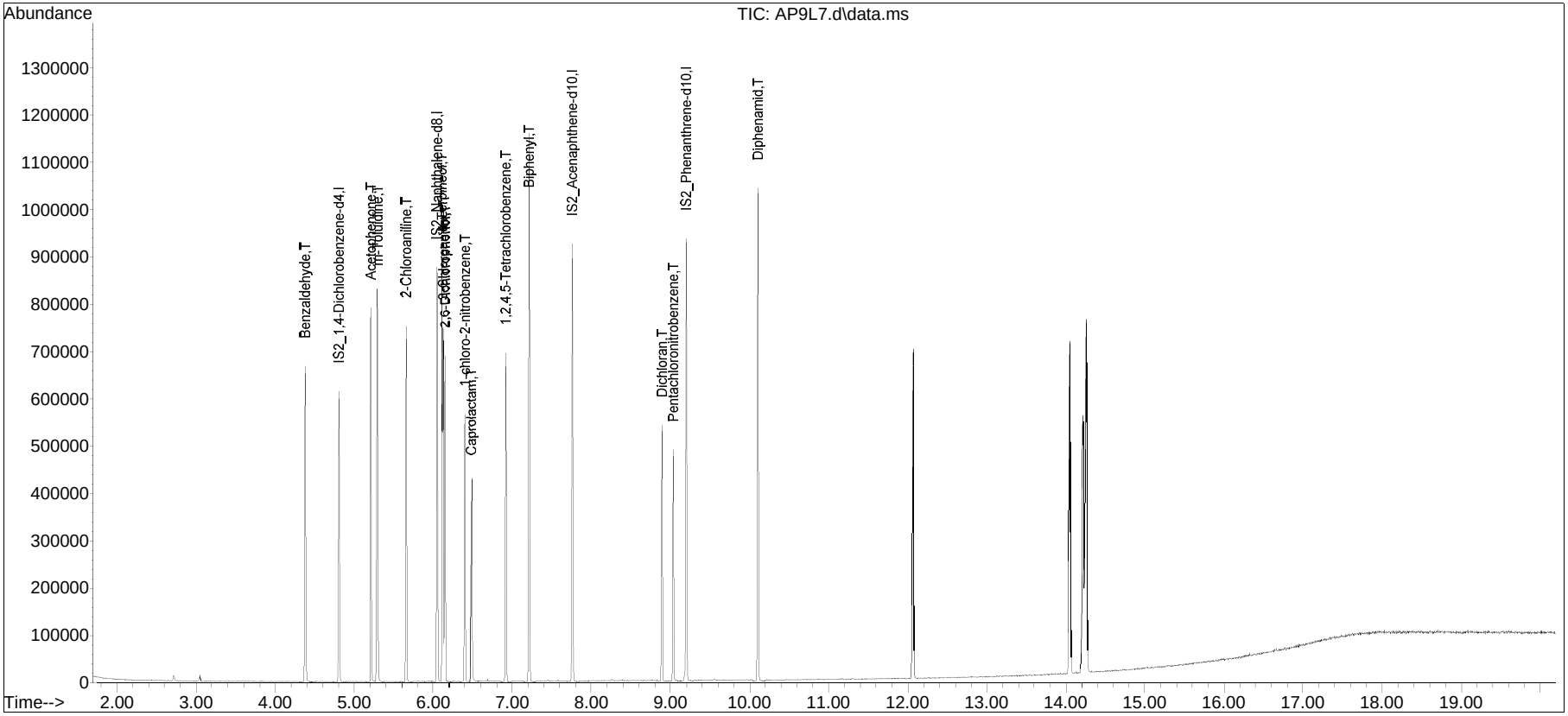
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181204nical\
Data File : AP9L7.d
Acq On : 5 Dec 2018 5:39 am
Operator : SV103:cb
Sample : IL14,32,,AP9L50 Lot#7806
Misc : wg1186012,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 05 12:12:13 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 11:40:27 2018
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistcal\AP9L7.d•



Manual Integration Report

Data Path	: I:\8270\SV103\181204nical\	QMethod	: FS181204nSV103.m
Data File	: AP9L7.d	Operator	: SV103:cb
Date Inj'd	: 12/5/2018 5:39 am	Instrument	: SV103
Sample	: IL14,32,,AP9L50 Lot#7806	Quant Date	: 12/5/2018 11:43 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181204nical\
Data File : AP9L6.d
Acq On : 5 Dec 2018 6:05 am
Operator : SV103:cb
Sample : IL15,32,,AP9L20 Lot#7805
Misc : wg1186012,,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 05 12:11:25 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 11:40:27 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\181204nical\AP9L7.d
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.804	152	78057	40.000	ug/ml	0.00
Standard Area 1 = 73923			Recovery = 105.59%			
54) IS2_Naphthalene-d8	6.048	136	342336	40.000	ug/ml	0.00
Standard Area 1 = 329908			Recovery = 103.77%			
82) IS2_Acenaphthene-d10	7.759	164	152948	40.000	ug/ml	0.00
Standard Area 1 = 147866			Recovery = 103.44%			
97) IS2_Phenanthrene-d10	9.197	188	281717	40.000	ug/ml	0.00
Standard Area 1 = 276146			Recovery = 102.02%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.375	105	44388	19.583	ug/ml	99
29) Acetophenone	5.213	105	72527	19.152	ug/ml	94
30) m-Toluidine	5.293	106	77983	19.088	ug/ml	98
31) 2-Chloroaniline	5.653	127	67907	18.755	ug/ml	99
55) a-Terpineol	6.105	59	52975	19.907	ug/ml	96
56) 3-Chloroaniline	6.122	65	24289	20.538	ug/ml	95
57) 2,6-Dichlorophenol	6.148	162	39428	19.191	ug/ml	96
58) 1-chloro-2-nitrobenzene	6.404	111	21116	18.725	ug/ml	96
59) Caprolactam	6.480	55	29795	19.803	ug/ml	97
60) 1,2,4,5-Tetrachloroben...	6.918	216	35729	18.831	ug/ml	98
61) Biphenyl	7.211	154	117333	19.318	ug/ml	98
83) Dichloran	8.893	206	9568	17.710	ug/ml	88
84) Pentachloronitrobenzene	9.040	237	8922	18.802	ug/ml	90
98) Diphenamid	10.106	167	63265	18.362	ug/ml	88

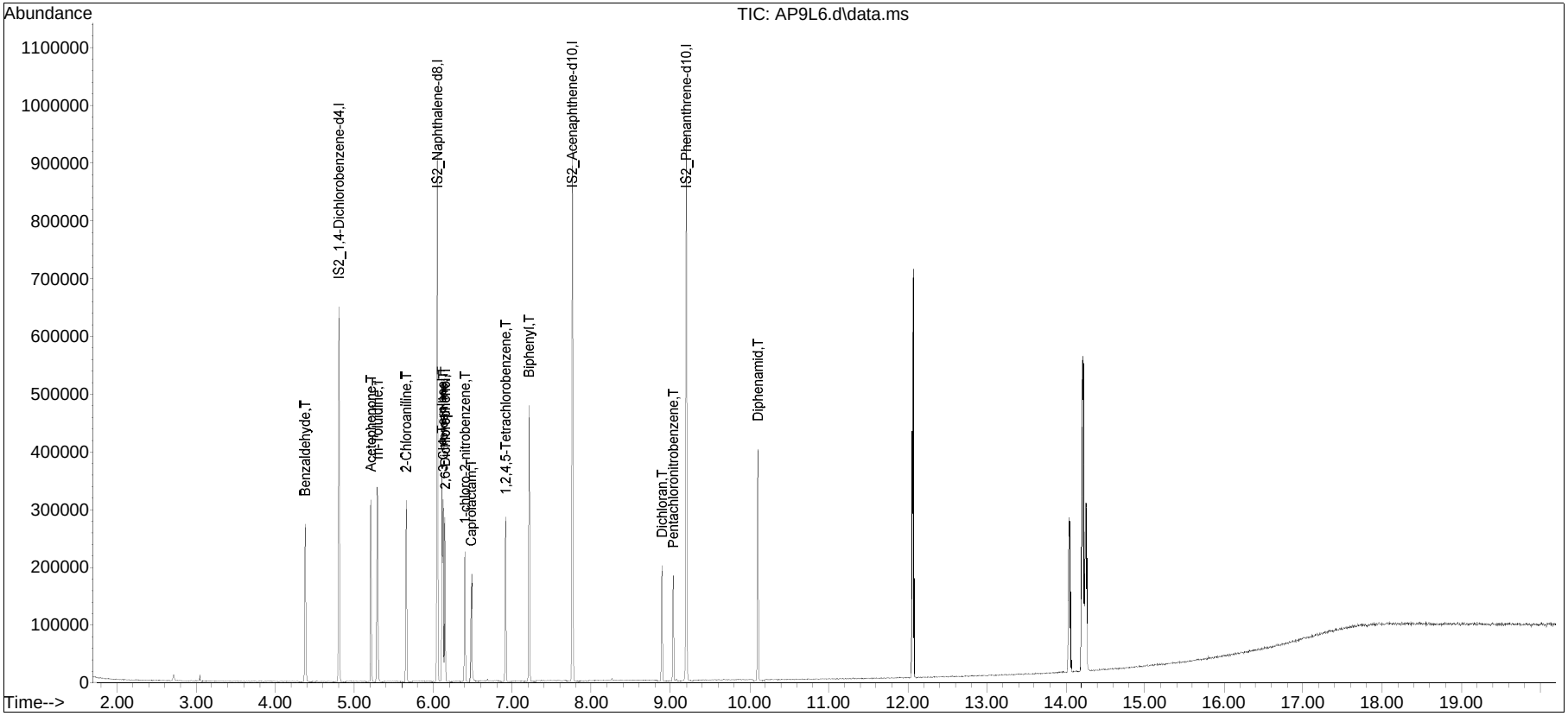
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181204nical\
Data File : AP9L6.d
Acq On : 5 Dec 2018 6:05 am
Operator : SV103:cb
Sample : IL15,32,,AP9L20 Lot#7805
Misc : wg1186012,,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 05 12:11:25 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 11:40:27 2018
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistcal\AP9L7.d•



Manual Integration Report

Data Path	: I:\8270\SV103\181204nical\	QMethod	: FS181204nSV103.m
Data File	: AP9L6.d	Operator	: SV103:cb
Date Inj'd	: 12/5/2018 6:05 am	Instrument	: SV103
Sample	: IL15,32,,AP9L20 Lot#7805	Quant Date	: 12/5/2018 11:43 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181204nical\
Data File : AP9L5.d
Acq On : 5 Dec 2018 6:30 am
Operator : SV103:cb
Sample : IL16,32,,AP9L10 Lot#7804
Misc : wg1186012,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 05 12:10:58 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 11:40:27 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\181204nical\AP9L7.d
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.804	152	85268	40.000	ug/ml	0.00
Standard Area 1 = 73923			Recovery = 115.35%			
54) IS2_Naphthalene-d8	6.048	136	374174	40.000	ug/ml	0.00
Standard Area 1 = 329908			Recovery = 113.42%			
82) IS2_Acenaphthene-d10	7.759	164	167405	40.000	ug/ml	0.00
Standard Area 1 = 147866			Recovery = 113.21%			
97) IS2_Phenanthrene-d10	9.197	188	316122	40.000	ug/ml	0.00
Standard Area 1 = 276146			Recovery = 114.48%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.378	105	23975	9.683	ug/ml	97
29) Acetophenone	5.216	105	39154	9.465	ug/ml	93
30) m-Toluidine	5.295	106	42071	9.427	ug/ml	98
31) 2-Chloroaniline	5.653	127	37023	9.361	ug/ml	100
55) a-Terpineol	6.105	59	28724	9.876	ug/ml	97
56) 3-Chloroaniline	6.122	65	13510	10.451	ug/ml	99
57) 2,6-Dichlorophenol	6.148	162	21188	9.435	ug/ml	94
58) 1-chloro-2-nitrobenzene	6.404	111	11397	9.247	ug/ml	93
59) Caprolactam	6.480	55	15913	9.676	ug/ml	94
60) 1,2,4,5-Tetrachloroben...	6.915	216	19192	9.254	ug/ml	98
61) Biphenyl	7.211	154	63277	9.532	ug/ml	97
83) Dichloran	8.893	206	4903	8.291	ug/ml	87
84) Pentachloronitrobenzene	9.040	237	4992	9.611	ug/ml	92
98) Diphenamid	10.106	167	33373	8.632	ug/ml	84

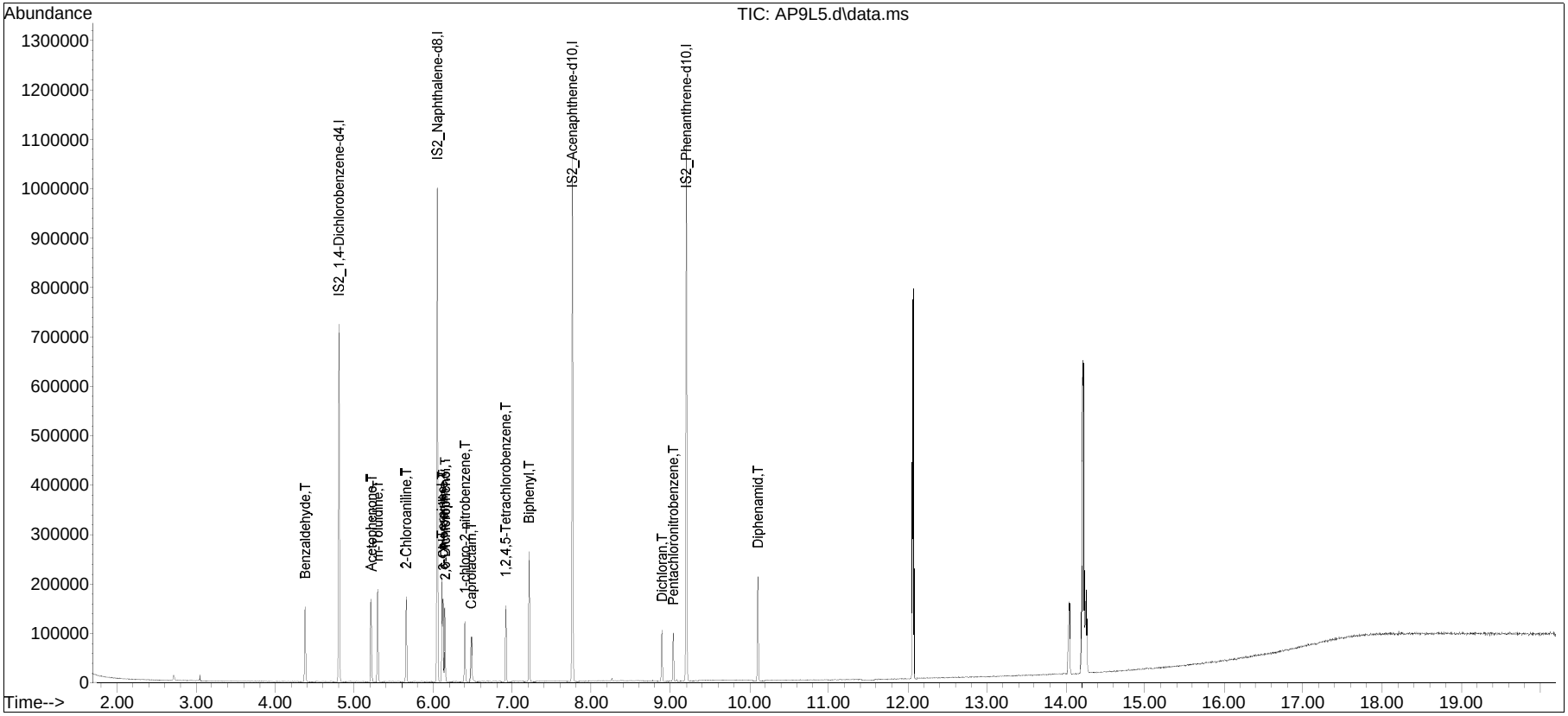
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181204nical\
Data File : AP9L5.d
Acq On : 5 Dec 2018 6:30 am
Operator : SV103:cb
Sample : IL16,32,,AP9L10 Lot#7804
Misc : wg1186012,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 05 12:10:58 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 11:40:27 2018
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistcal\AP9L7.d•



Manual Integration Report

Data Path	: I:\8270\SV103\181204nical\	QMethod	: FS181204nSV103.m
Data File	: AP9L5.d	Operator	: SV103:cb
Date Inj'd	: 12/5/2018 6:30 am	Instrument	: SV103
Sample	: IL16,32,,AP9L10 Lot#7804	Quant Date	: 12/5/2018 11:42 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181204nical\
Data File : AP9L4.d
Acq On : 5 Dec 2018 6:56 am
Operator : SV103:cb
Sample : IL17,32,,AP9L5 Lot#7803
Misc : wg1186012,,
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Dec 05 12:10:21 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 11:40:27 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\181204nical\AP9L7.d
Sub List : AP9ical - AP9 ical sublist

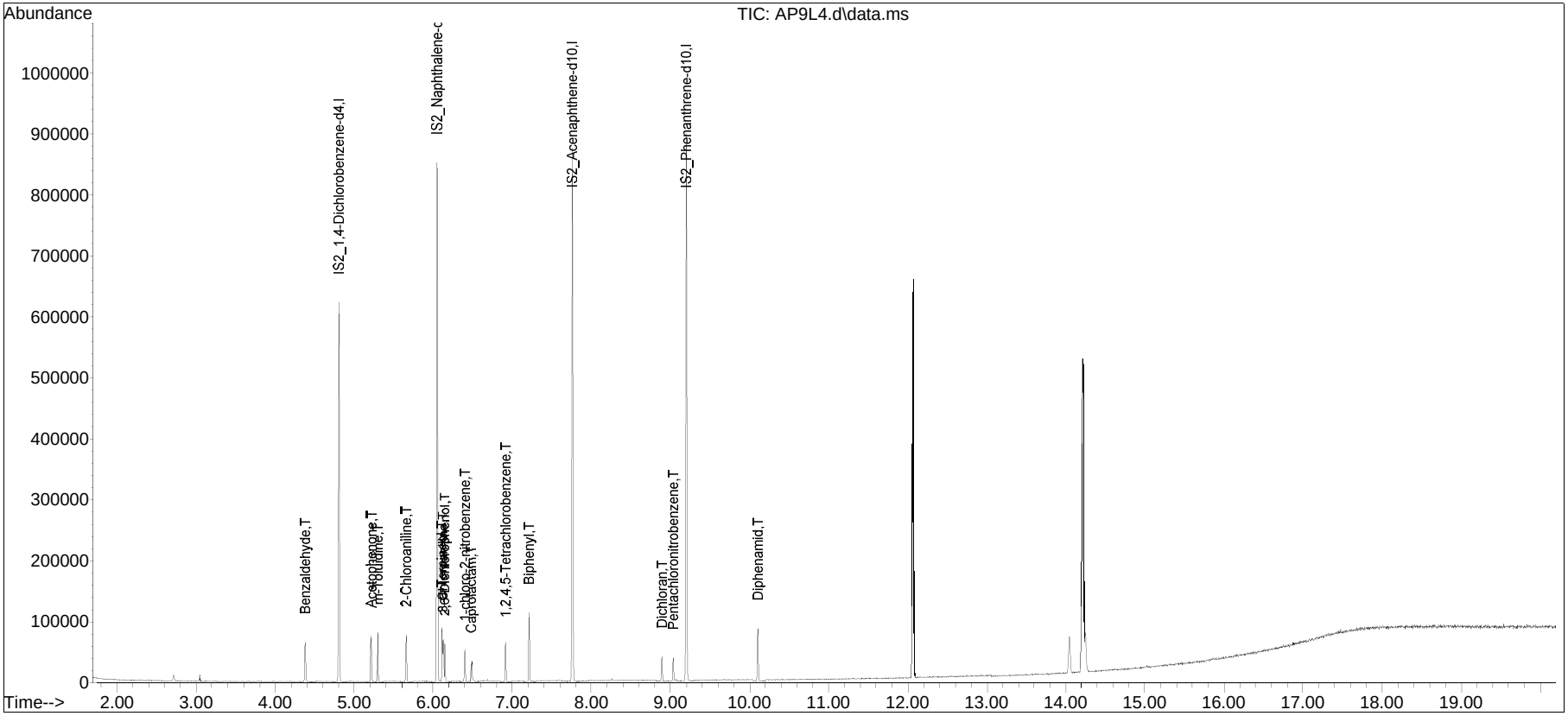
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
27) IS2_1,4-Dichlorobenzen...	4.804	152	70797	40.000 ug/ml	0.00
Standard Area 1 = 73923			Recovery =	95.77%	
54) IS2_Naphthalene-d8	6.046	136	313266	40.000 ug/ml	0.00
Standard Area 1 = 329908			Recovery =	94.96%	
82) IS2_Acenaphthene-d10	7.759	164	137165	40.000 ug/ml	0.00
Standard Area 1 = 147866			Recovery =	92.76%	
97) IS2_Phenanthrene-d10	9.197	188	257301	40.000 ug/ml	0.00
Standard Area 1 = 276146			Recovery =	93.18%	
System Monitoring Compounds					
Target Compounds					Qvalue
28) Benzaldehyde	4.378	105	10476	5.096 ug/ml	97
29) Acetophenone	5.216	105	16428	4.783 ug/ml#	91
30) m-Toluidine	5.296	106	17752	4.791 ug/ml	99
31) 2-Chloroaniline	5.654	127	15697	4.780 ug/ml	98
55) a-Terpineol	6.105	59	12173	4.999 ug/ml	97
56) 3-Chloroaniline	6.120	65	5792	5.352 ug/ml	97
57) 2,6-Dichlorophenol	6.145	162	8574	4.561 ug/ml	92
58) 1-chloro-2-nitrobenzene	6.404	111	4993	4.839 ug/ml	96
59) Caprolactam	6.480	55	6537	4.748 ug/ml	91
60) 1,2,4,5-Tetrachloroben...	6.918	216	8309	4.786 ug/ml	98
61) Biphenyl	7.211	154	26659	4.797 ug/ml	95
83) Dichloran	8.893	206	1877	3.874 ug/ml	89
84) Pentachloronitrobenzene	9.041	237	1839	4.321 ug/ml#	86
98) Diphenamid	10.106	167	13627	4.330 ug/ml	86

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\8270\SV103\181204nical\
Data File : AP9L4.d
Acq On : 5 Dec 2018 6:56 am
Operator : SV103:cb
Sample : IL17,32,,AP9L5 Lot#7803
Misc : wg1186012,,
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Dec 05 12:10:21 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 11:40:27 2018
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistcal\AP9L7.d•



Manual Integration Report

Data Path	: I:\8270\SV103\181204nical\	QMethod	: FS181204nSV103.m
Data File	: AP9L4.d	Operator	: SV103:cb
Date Inj'd	: 12/5/2018 6:56 am	Instrument	: SV103
Sample	: IL17,32,,AP9L5 Lot#7803	Quant Date	: 12/5/2018 11:42 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181204nical\
Data File : AP9L3.d
Acq On : 5 Dec 2018 7:22 am
Operator : SV103:cb
Sample : IL18,32,,AP9L3 Lot#7802
Misc : wg1186012,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 06 09:57:38 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 11:40:27 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\181204nical\AP9L7.d
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.804	152	69290	40.000	ug/ml	0.00
Standard Area 1 = 73923			Recovery = 93.73%			
54) IS2_Naphthalene-d8	6.048	136	296437	40.000	ug/ml	0.00
Standard Area 1 = 329908			Recovery = 89.85%			
82) IS2_Acenaphthene-d10	7.759	164	127402	40.000	ug/ml	0.00
Standard Area 1 = 147866			Recovery = 86.16%			
97) IS2_Phenanthrene-d10	9.197	188	239121	40.000	ug/ml	0.00
Standard Area 1 = 276146			Recovery = 86.59%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.380	105	6090	3.027	ug/ml	99
29) Acetophenone	5.216	105	9559	2.844	ug/ml#	88
30) m-Toluidine	5.295	106	10029	2.765	ug/ml	98
31) 2-Chloroaniline	5.656	127	9217	2.868	ug/ml	99
55) a-Terpineol	6.105	59	6876	2.984	ug/ml	94
56) 3-Chloroaniline	6.122	65	3133	3.059	ug/ml	94
57) 2,6-Dichlorophenol	6.148	162	5222	2.935	ug/ml	95
58) 1-chloro-2-nitrobenzene	6.401	111	2628	2.691	ug/ml	87
59) Caprolactam	6.483	55	3608	2.769	ug/ml	93
60) 1,2,4,5-Tetrachloroben...	6.915	216	4942	3.008	ug/ml	94
61) Biphenyl	7.211	154	15436	2.935	ug/ml	97
83) Dichloran	8.893	206	1134	2.520	ug/ml	86
84) Pentachloronitrobenzene	9.038	237	731M2	1.849	ug/ml	
98) Diphenamid	10.106	167	7772	2.658	ug/ml	87

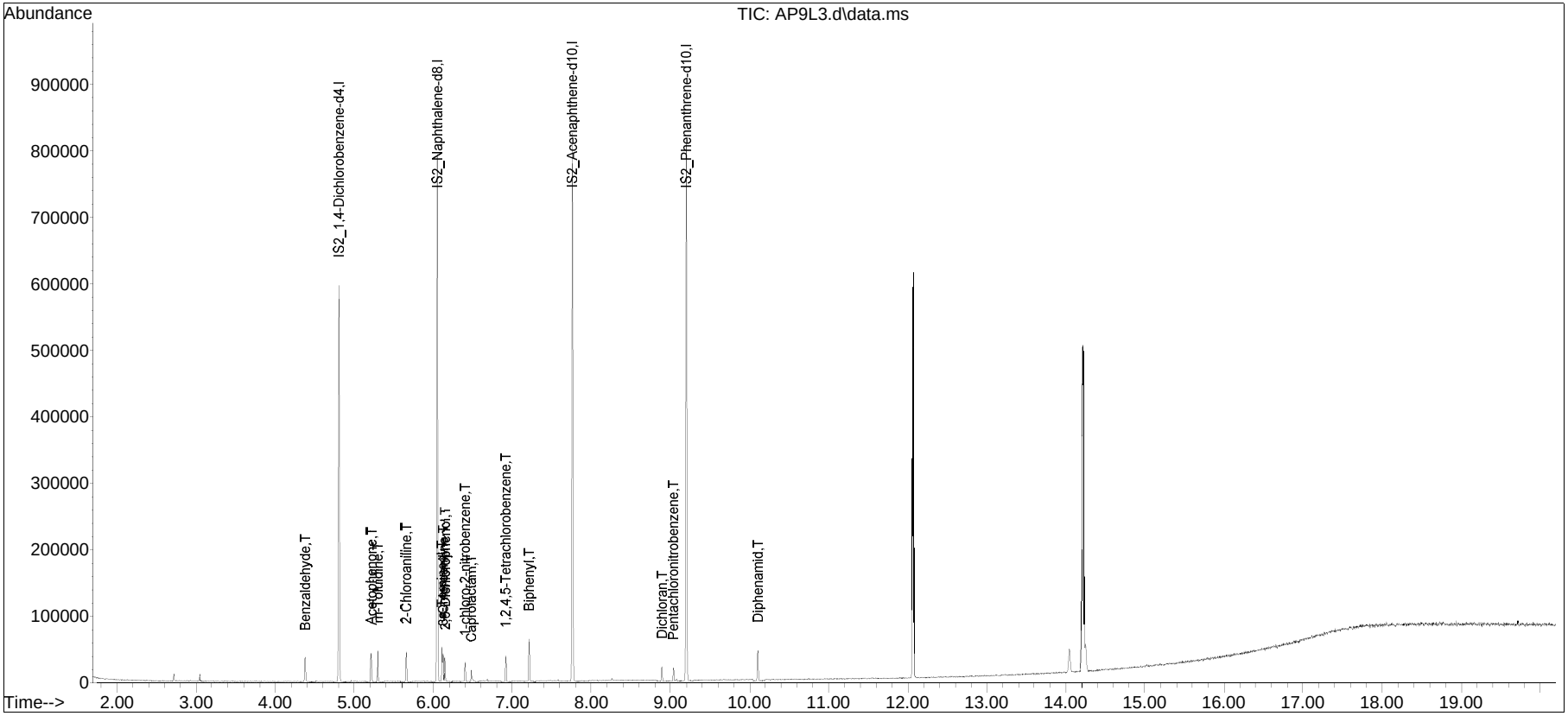
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181204nical\
Data File : AP9L3.d
Acq On : 5 Dec 2018 7:22 am
Operator : SV103:cb
Sample : IL18,32,,AP9L3 Lot#7802
Misc : wg1186012,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 06 09:57:38 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 11:40:27 2018
Response via : Initial Calibration

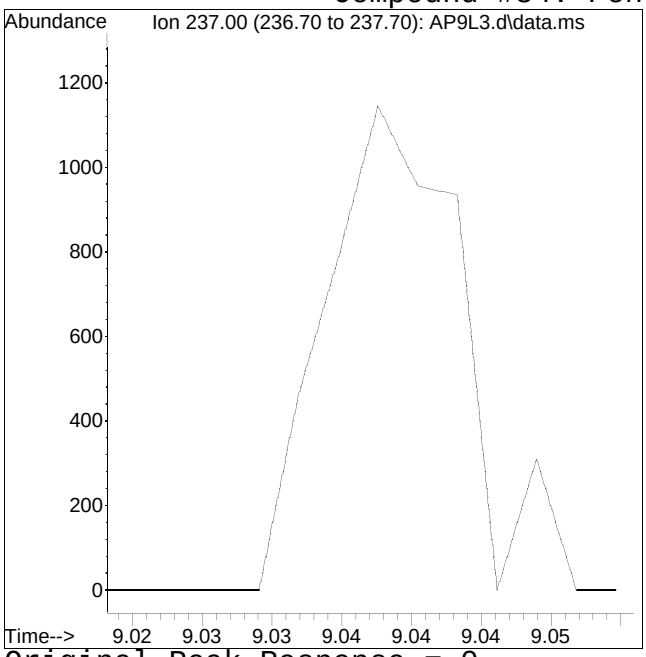
Sub List : AP9ical - AP9 ical sublistcal\AP9L7.d•



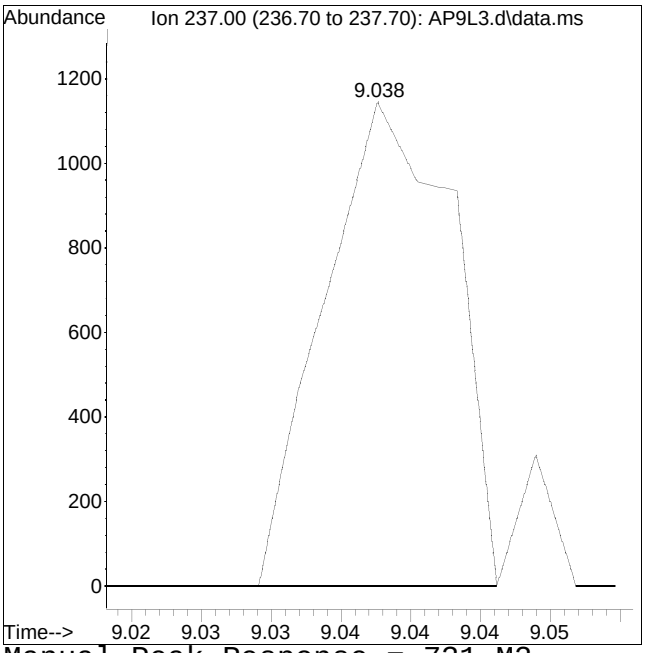
Manual Integration Report

Data Path : I:\8270\SV103\181204nical\QMethod : FS181204nSV103.m
Data File : AP9L3.d Operator : SV103:cb
Date Inj'd : 12/5/2018 7:22 am Instrument : SV103
Sample : IL18,32,,AP9L3 Lot#7802 Quant Date : 12/5/2018 11:42 am

Compound #84: Pentachloronitrobenzene



Original Peak Response = 0



Manual Peak Response = 731 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181204nical\
Data File : AP9L2.d
Acq On : 5 Dec 2018 7:48 am
Operator : SV103:cb
Sample : IL19,32,,AP9L2 Lot#7801
Misc : wg1186012,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Dec 05 12:08:25 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 11:40:27 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\181204nical\AP9L7.d
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
27) IS2_1,4-Dichlorobenzen...	4.804	152	71258	40.000 ug/ml	0.00
Standard Area 1 = 73923			Recovery = 96.39%		
54) IS2_Naphthalene-d8	6.046	136	314612	40.000 ug/ml	0.00
Standard Area 1 = 329908			Recovery = 95.36%		
82) IS2_Acenaphthene-d10	7.759	164	138643	40.000 ug/ml	0.00
Standard Area 1 = 147866			Recovery = 93.76%		
97) IS2_Phenanthrene-d10	9.197	188	264228	40.000 ug/ml	0.00
Standard Area 1 = 276146			Recovery = 95.68%		
System Monitoring Compounds					
Target Compounds					Qvalue
28) Benzaldehyde	4.381	105	3987	1.927 ug/ml	92
29) Acetophenone	5.216	105	6640	1.921 ug/ml#	88
30) m-Toluidine	5.298	106	7091	1.901 ug/ml	97
31) 2-Chloroaniline	5.654	127	6456	1.953 ug/ml	96
55) a-Terpineol	6.105	59	4902	2.004 ug/ml	95
56) 3-Chloroaniline	6.120	65	2371	2.181 ug/ml	94
57) 2,6-Dichlorophenol	6.145	162	3500	1.854 ug/ml	91
58) 1-chloro-2-nitrobenzene	6.404	111	1841	1.776 ug/ml	87
59) Caprolactam	6.483	55	2627	1.900 ug/ml#	66
60) 1,2,4,5-Tetrachloroben...	6.915	216	3365	1.930 ug/ml#	83
61) Biphenyl	7.211	154	11024	1.975 ug/ml	97
83) Dichloran	8.890	206	784M2	1.601 ug/ml	
84) Pentachloronitrobenzene	9.041	237	592M2	1.376 ug/ml	
98) Diphenamid	10.103	167	5748	1.779 ug/ml	91

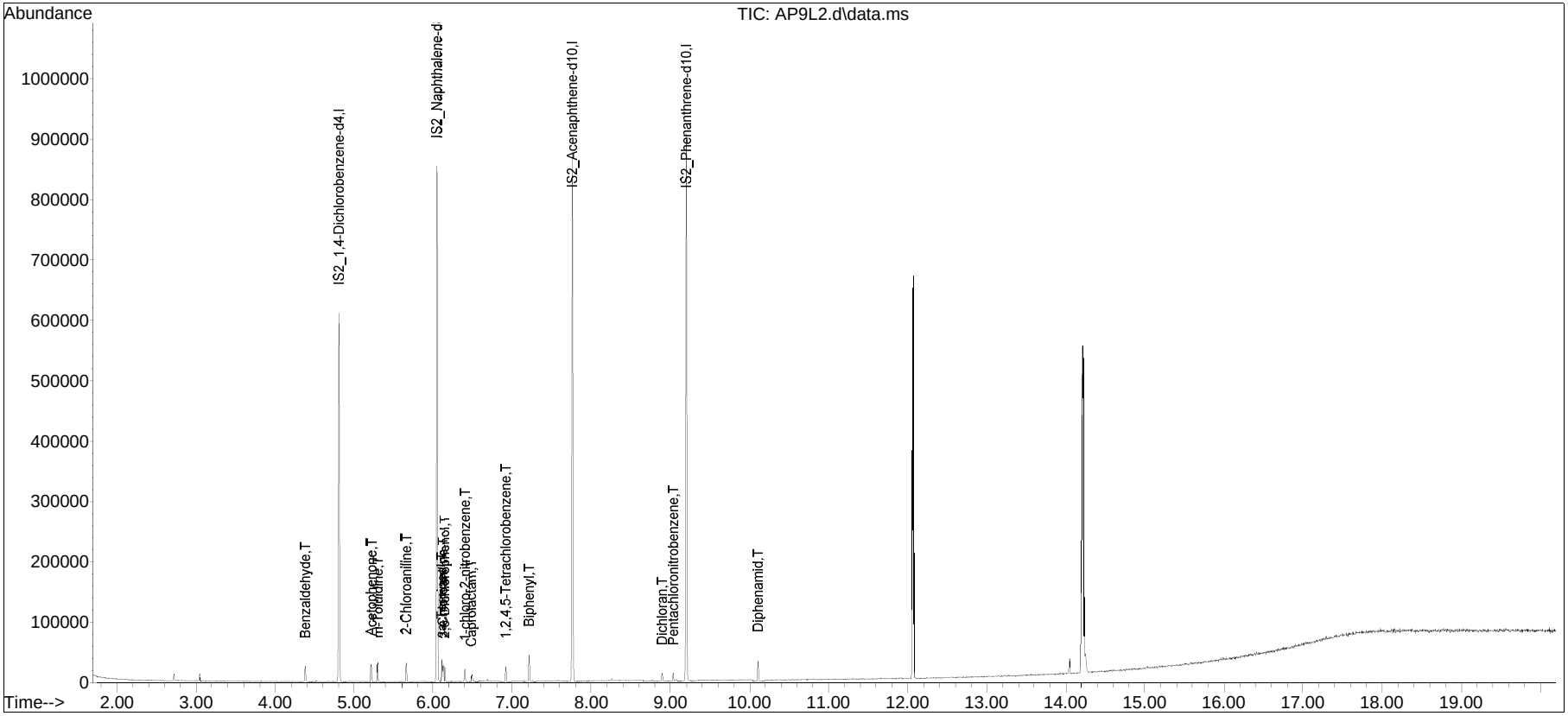
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181204nical\
Data File : AP9L2.d
Acq On : 5 Dec 2018 7:48 am
Operator : SV103:cb
Sample : IL19,32,,AP9L2 Lot#7801
Misc : wg1186012,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Dec 05 12:08:25 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 11:40:27 2018
Response via : Initial Calibration

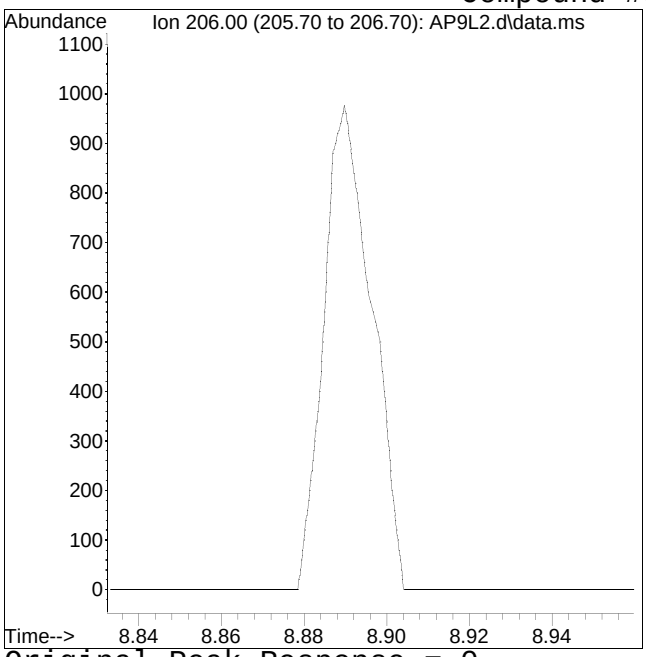
Sub List : AP9ical - AP9 ical sublistcal\AP9L7.d•



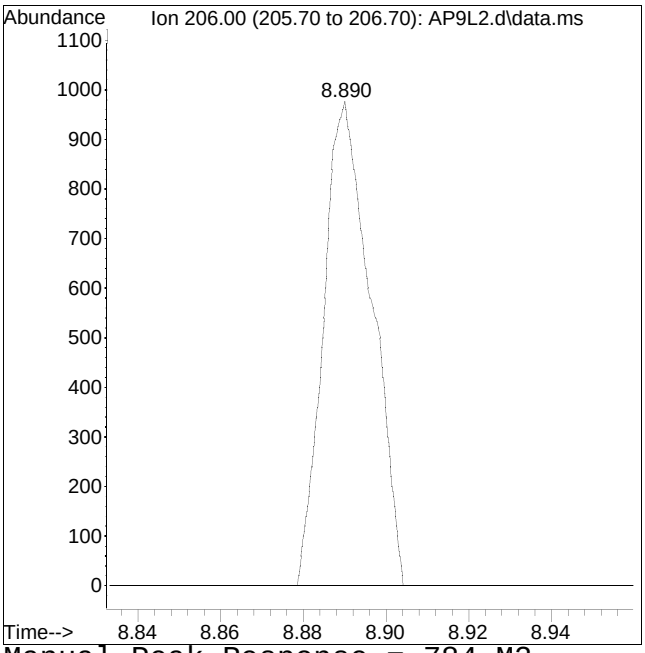
Manual Integration Report

Data Path : I:\8270\SV103\181204nical\QMethod : FS181204nSV103.m
Data File : AP9L2.d Operator : SV103:cb
Date Inj'd : 12/5/2018 7:48 am Instrument : SV103
Sample : IL19,32,,AP9L2 Lot#7801 Quant Date : 12/5/2018 11:42 am

Compound #83: Dichloran



Original Peak Response = 0



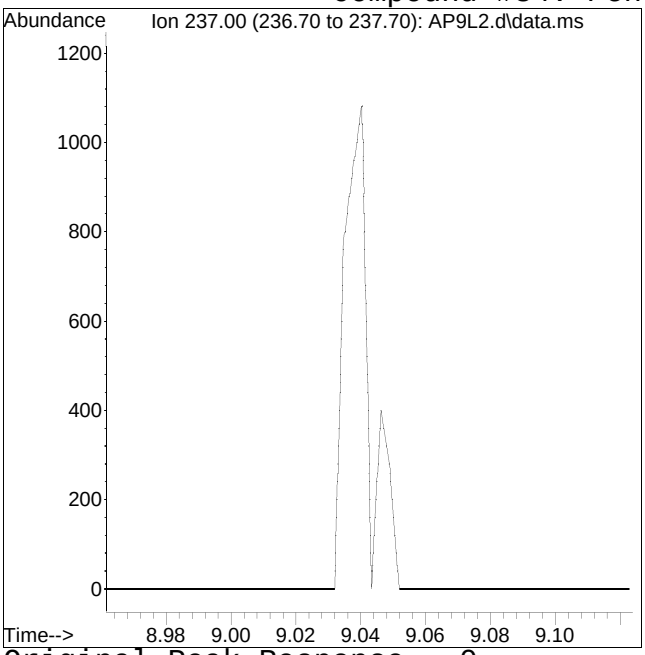
Manual Peak Response = 784 M2

M2 = Peak not found by automatic integration algorithm.

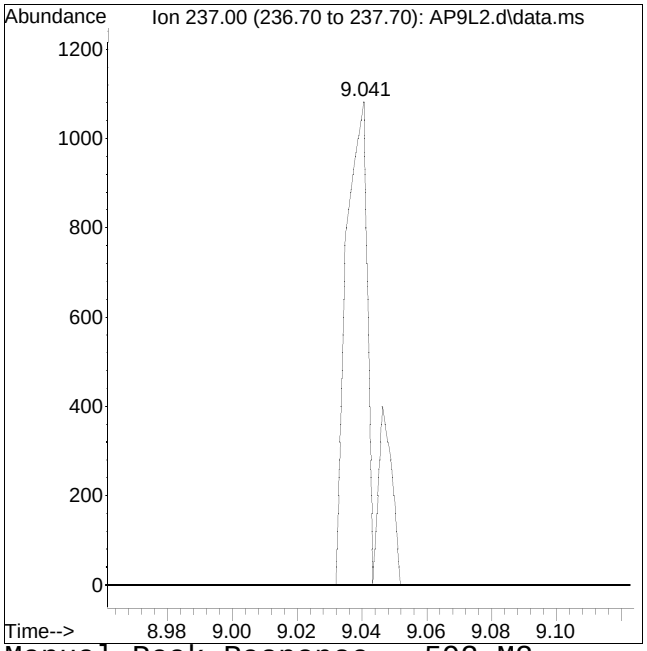
Manual Integration Report

Data Path : I:\8270\SV103\181204nical\QMethod : FS181204nSV103.m
Data File : AP9L2.d Operator : SV103:cb
Date Inj'd : 12/5/2018 7:48 am Instrument : SV103
Sample : IL19,32,,AP9L2 Lot#7801 Quant Date : 12/5/2018 11:42 am

Compound #84: Pentachloronitrobenzene



Original Peak Response = 0



Manual Peak Response = 592 M2

M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181204nical\
Data File : AP9L1.d
Acq On : 5 Dec 2018 8:14 am
Operator : SV103:cb
Sample : IL20,32,,AP9L1 Lot#7800
Misc : wg1186012,,
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 05 12:07:27 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 11:40:27 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\181204nical\AP9L7.d
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
27) IS2_1,4-Dichlorobenzen...	4.804	152	82237	40.000 ug/ml	0.00
Standard Area 1 = 73923			Recovery = 111.25%		
54) IS2_Naphthalene-d8	6.048	136	353249	40.000 ug/ml	0.00
Standard Area 1 = 329908			Recovery = 107.08%		
82) IS2_Acenaphthene-d10	7.759	164	152970	40.000 ug/ml	0.00
Standard Area 1 = 147866			Recovery = 103.45%		
97) IS2_Phenanthrene-d10	9.197	188	282778	40.000 ug/ml	0.00
Standard Area 1 = 276146			Recovery = 102.40%		
System Monitoring Compounds					
Target Compounds					Qvalue
28) Benzaldehyde	4.380	105	2097	0.878 ug/ml	89
29) Acetophenone	5.219	105	3458	0.867 ug/ml#	66
30) m-Toluidine	5.295	106	3531	0.820 ug/ml#	90
31) 2-Chloroaniline	5.653	127	3198	0.838 ug/ml#	65
55) a-Terpineol	6.108	59	2694	0.981 ug/ml	99
56) 3-Chloroaniline	6.122	65	1342	1.100 ug/ml	85
57) 2,6-Dichlorophenol	6.145	162	1992	0.940 ug/ml	90
58) 1-chloro-2-nitrobenzene	6.401	111	1068	0.918 ug/ml#	62
59) Caprolactam	6.492	55	1169	0.753 ug/ml#	34
60) 1,2,4,5-Tetrachloroben...	6.915	216	1848	0.944 ug/ml#	85
61) Biphenyl	7.211	154	6125	0.977 ug/ml	97
83) Dichloran	8.893	206	391M2	0.724 ug/ml	
84) Pentachloronitrobenzene	0.000		0	N.D.	
98) Diphenamid	10.106	167	2980	0.862 ug/ml	91

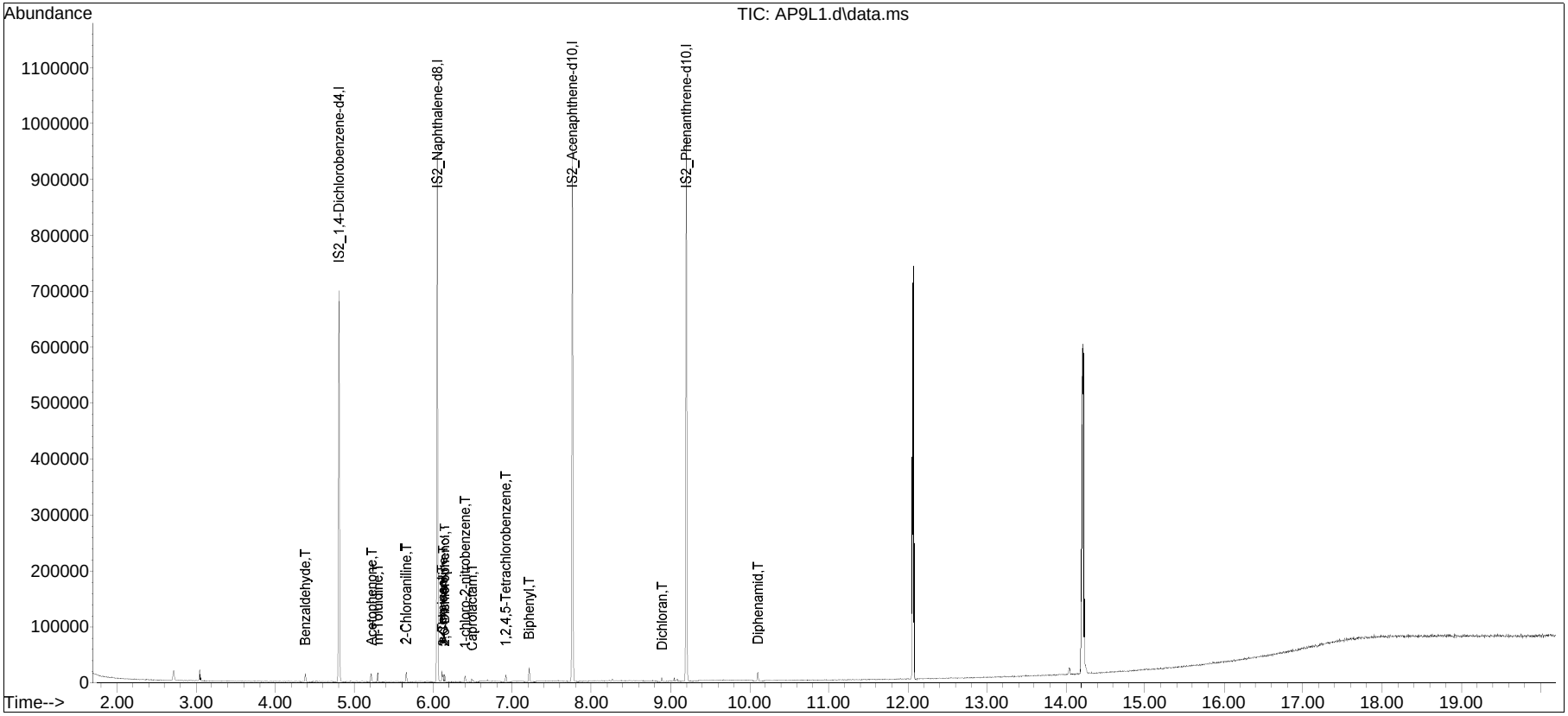
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181204nical\
Data File : AP9L1.d
Acq On : 5 Dec 2018 8:14 am
Operator : SV103:cb
Sample : IL20,32,,AP9L1 Lot#7800
Misc : wg1186012,,
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 05 12:07:27 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 11:40:27 2018
Response via : Initial Calibration

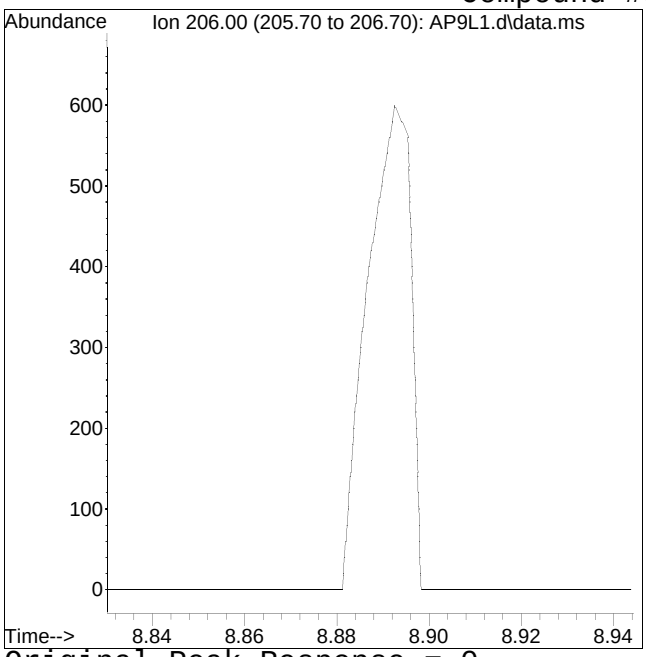
Sub List : AP9ical - AP9 ical sublistcal\AP9L7.d•

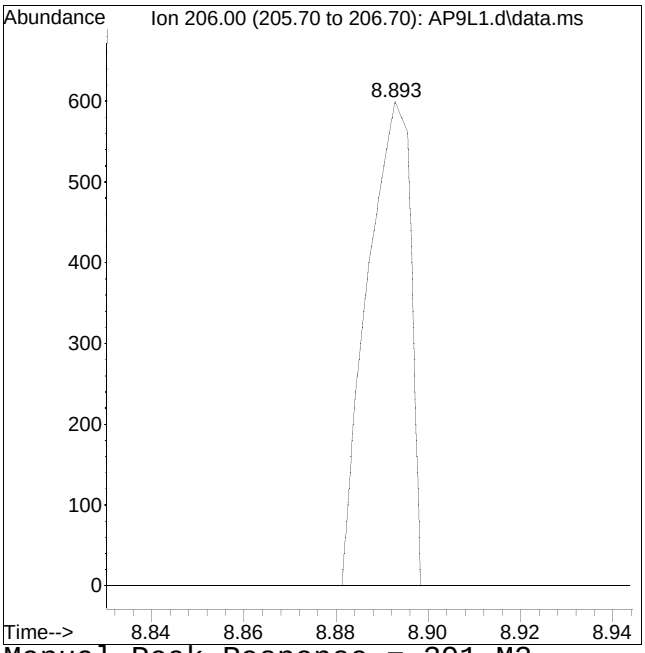


Manual Integration Report

Data Path : I:\8270\SV103\181204nical\QMethod : FS181204nSV103.m
Data File : AP9L1.d Operator : SV103:cb
Date Inj'd : 12/5/2018 8:14 am Instrument : SV103
Sample : IL20,32,,AP9L1 Lot#7800 Quant Date : 12/5/2018 11:42 am

Compound #83: Dichloran





Original Peak Response = 0 Manual Peak Response = 391 M2
M2 = Peak not found by automatic integration algorithm.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV103\181204nical\
Data File : ABNICV.d
Acq On : 5 Dec 2018 8:39 am
Operator : SV103:cb
Sample : CQICV1,32,,ABN ICV Lot#7787
Misc : wg1186012,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 06 09:36:05 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 09:35:58 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	IS1_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	92	0.00
2	t	n-Nitrosodimethylamine	0.886	0.930	-5.0	107	0.00
3	t	Pyridine	1.385	1.609	-16.2	110	-0.01
4	S	2-Fluorophenol	1.328	1.333	-0.4	95	0.00
5	T	Aniline	2.146	2.103	2.0	95	0.00
6	t	2-Chlorophenol	1.469	1.427	2.9	90	0.00
7	S	Phenol-d6	1.669	1.665	0.2	95	0.00
8	T	Phenol	1.963	1.955	0.4	96	0.00
9	T	Bis(2-chloroethyl)ether	1.398	1.353	3.2	95	0.00
10	T	1,3-Dichlorobenzene	1.546	1.465	5.2	89	0.00
11	T	1,4-Dichlorobenzene	1.595	1.502	5.8	89	0.00
12	T	1,2-Dichlorobenzene	1.517	1.432	5.6	89	0.00
13	t	Benzyl alcohol	1.163	1.217	-4.6	99	0.00
14	T	Bis(2-chloroisopropyl)ether	2.866	3.238	-13.0	121	0.00
15	T	2-Methylphenol	1.310	1.327	-1.3	96	0.00
16	T	Hexachloroethane	0.610	0.617	-1.1	97	0.00
17	T	n-Nitrosodi-n-propylamine	1.038	1.094	-5.4	100	0.00
18	T	3-Methylphenol/4-Methylphen	1.366	1.413	-3.4	97	0.00
19	S	Nitrobenzene-d5	1.544	1.621	-5.0	99	0.00
20	T	Nitrobenzene	1.561	1.633	-4.6	100	0.00
21	T	Isophorone	2.651	2.841	-7.2	100	0.00
22	T	2-Nitrophenol	0.757	0.765	-1.1	88	0.00
23	T	2,4-Dimethylphenol	1.321	1.447	-9.5	102	0.00
24	T	Bis(2-chloroethoxy)methane	1.699	1.829	-7.7	102	0.00
25	T	2,4-Dichlorophenol	1.083	1.124	-3.8	94	0.00
26	T	1,2,4-Trichlorobenzene	1.189	1.156	2.8	90	0.00
34	I	IS1_Naphthalene-d8	1.000	1.000	0.0	98	0.00
35	T	Naphthalene	0.983	0.945	3.9	96	0.00
36	T	Benzoic Acid	0.249	0.236	5.2	92	0.00
37	T	4-Chloroaniline	0.124	0.131	-5.6	106	0.00
38	T	Hexachlorobutadiene	0.125	0.119	4.8	92	0.00
39	T	p-Chloro-m-cresol	0.269	0.268	0.4	96	0.00
40	T	2-Methylnaphthalene	0.649	0.625	3.7	94	0.00
41	T	1-Methylnaphthalene	0.206	0.207	-0.5	99	0.00
42	T	Hexachlorocyclopentadiene	0.153	0.146	4.6	89	0.00
43	T	2,4,6-Trichlorophenol	0.166	0.156	6.0	87	0.00
44	T	2,4,5-Trichlorophenol	0.174	0.170	2.3	89	0.00
45	S	2-Fluorobiphenyl	0.623	0.597	4.2	92	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV103\181204nical\
Data File : ABNICV.d
Acq On : 5 Dec 2018 8:39 am
Operator : SV103:cb
Sample : CQICV1,32,,ABN ICV Lot#7787
Misc : wg1186012,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 06 09:36:05 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 09:35:58 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
46	T	2-Chloronaphthalene	0.562	0.530	5.7	91	0.00
47	T	2-Nitroaniline	0.201	0.193	4.0	89	0.00
48	T	1,4-Dinitrobenzene	0.092	0.084	8.7	86	0.00
49	T	1,3-Dinitrobenzene	0.100	0.098	2.0	89	0.00
50	T	Dimethyl phthalate	0.636	0.618	2.8	91	0.00
51	T	Acenaphthylene	0.926	0.909	1.8	92	0.00
52	T	2,6-Dinitrotoluene	0.140	0.135	3.6	86	0.00
53	T	1,2-Dinitrobenzene	0.066	0.063	4.5	91	0.00
62	I	IS1_Acenaphthene-d10	1.000	1.000	0.0	95	0.00
63	T	3-Nitroaniline	0.384	0.381	0.8	88	0.00
64	T	Acenaphthene	1.205	1.167	3.2	94	0.00
65	T	2,4-Dinitrophenol	0.214	0.200	6.5	86	0.00
66	T	Dibenzofuran	1.756	1.718	2.2	93	0.00
67	T	2,4-Dinitrotoluene	0.409	0.430	-5.1	92	0.00
68	T	4-Nitrophenol	0.334	0.362	-8.4	103	0.00
69	T	2,3,5,6-Tetrachlorophenol	0.303	0.289	4.6	88	0.00
70	T	2,3,4,6-Tetrachlorophenol	0.307	0.291	5.2	88	0.00
71	T	Diethyl phthalate	1.499	1.457	2.8	91	0.00
72	T	Fluorene	1.412	1.374	2.7	92	0.00
73	T	4-Chlorophenyl phenyl ether	0.610	0.574	5.9	91	0.00
74	T	4-Nitroaniline	0.379	0.405	-6.9	93	0.00
75	T	4,6-Dinitro-o-cresol	0.245	0.241	1.6	91	0.00
76	T	NDPA/DPA	1.192	1.181	0.9	93	0.00
77	T	Azobenzene	1.598	1.784	-11.6	108	0.00
78	S	2,4,6-Tribromophenol	0.166	0.164	1.2	89	0.00
79	T	4-Bromophenyl phenyl ether	0.328	0.321	2.1	93	0.00
80	T	Hexachlorobenzene	0.355	0.337	5.1	89	0.00
81	T	Pentachlorophenol	0.225	0.206	8.4	82	0.00
87	I	IS1_Phenanthrene-d10	1.000	1.000	0.0	95	0.00
88	T	Phenanthrene	1.103	1.064	3.5	95	0.00
89	T	Anthracene	1.097	1.072	2.3	93	0.00
90	T	Carbazole	1.017	1.036	-1.9	96	0.00
91	T	Di-n-butylphthalate	1.302	1.373	-5.5	97	0.00
92	T	Fluoranthene	1.080	1.088	-0.7	97	0.00
93	T	Benzidine	0.741	0.786	-6.1	104	0.00
94	T	Pyrene	1.120	1.148	-2.5	99	0.00
95	S	4-Terphenyl-d14	0.779	0.733	5.9	90	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV103\181204nical\
Data File : ABNICV.d
Acq On : 5 Dec 2018 8:39 am
Operator : SV103:cb
Sample : CQICV1,32,,ABN ICV Lot#7787
Misc : wg1186012,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 06 09:36:05 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 09:35:58 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96	T	Butyl benzyl phthalate	0.577	0.618	-7.1	101	0.00
103	I	IS1_Chrysene-d12	1.000	1.000	0.0	108	0.00
104	T	Benzo(a)anthracene	1.177	1.126	4.3	104	0.00
105	T	3,3'-Dichlorobenzidine	0.428	0.435	-1.6	105	0.00
106	T	Chrysene	1.112	1.057	4.9	104	0.00
107	T	Bis(2-ethylhexyl)phthalate	0.930	0.950	-2.2	106	0.00
108	T	Di-n-octylphthalate	1.608	1.617	-0.6	104	0.00
109	T	Benzo(b)fluoranthene	1.078	1.055	2.1	102	0.00
110	T	Benzo(k)fluoranthene	1.082	1.073	0.8	106	0.00
111	T	Benzo(a)pyrene	1.045	1.048	-0.3	104	0.00
112	I	IS1_Perylene-d12	1.000	1.000	0.0	107	0.00
113	T	Indeno(1,2,3-cd)pyrene	1.003	0.974	2.9	102	0.00
114	T	Dibenzo(a,h)anthracene	1.025	0.996	2.8	102	0.00
115	T	Benzo(ghi)perylene	1.063	1.044	1.8	104	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181204nical\
Data File : ABNICV.d
Acq On : 5 Dec 2018 8:39 am
Operator : SV103:cb
Sample : CQICV1,32,,ABN ICV Lot#7787
Misc : wg1186012,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 06 09:36:05 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 09:35:58 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\181204nical\ABNL7.d
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) IS1_1,4-Dichlorobenzen...	4.804	152	81942	40.000 ug/ml	0.00
Standard Area 1 = 88720			Recovery = 92.36%		
34) IS1_Naphthalene-d8	6.048	136	385926	40.000 ug/ml	0.00
Standard Area 1 = 394538			Recovery = 97.82%		
62) IS1_Acenaphthene-d10	7.759	164	176024	40.000 ug/ml	0.00
Standard Area 1 = 185698			Recovery = 94.79%		
87) IS1_Phenanthrene-d10	9.197	188	336160	40.000 ug/ml	0.00
Standard Area 1 = 353061			Recovery = 95.21%		
103) IS1_Chrysene-d12	12.072	240	330520	40.000 ug/ml #	0.00
Standard Area 1 = 306161			Recovery = 107.96%		
112) IS1_Perylene-d12	14.220	264	330892	40.000 ug/ml	0.00
Standard Area 1 = 309194			Recovery = 107.02%		
System Monitoring Compounds					
4) 2-Fluorophenol	3.534	112	136526	50.186 ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 100.37%		
7) Phenol-d6	4.494	99	170529	49.884 ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 99.77%		
19) Nitrobenzene-d5	5.352	82	166022	52.493 ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 209.97%#		
45) 2-Fluorobiphenyl	7.123	172	288032	47.889 ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 191.56%#		
78) 2,4,6-Tribromophenol	8.529	330	36158	49.532 ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 99.06%		
95) 4-Terphenyl-d14	10.805	244	308084	47.069 ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 188.28%#		
Target Compounds					Qvalue
2) n-Nitrosodimethylamine	2.147	74	95275	52.513 ug/ml#	76
3) Pyridine	2.207	79	164809	58.100 ug/ml	99
5) Aniline	4.491	93	215456	49.003 ug/ml	100
6) 2-Chlorophenol	4.605	128	146139	48.569 ug/ml	99
8) Phenol	4.508	94	200228	49.787 ug/ml#	89
9) Bis(2-chloroethyl)ether	4.568	93	138635	48.396 ug/ml	96
10) 1,3-Dichlorobenzene	4.747	146	150103	47.380 ug/ml	98
11) 1,4-Dichlorobenzene	4.821	146	153799	47.079 ug/ml	98
12) 1,2-Dichlorobenzene	4.969	146	146629	47.194 ug/ml	98
13) Benzyl alcohol	4.966	79	124624	52.320 ug/ml	95
14) Bis(2-chloroisopropyl)...	5.105	45	331648	56.481 ug/ml	91

Data Path : I:\8270\SV103\181204nical\
Data File : ABNICV.d
Acq On : 5 Dec 2018 8:39 am
Operator : SV103:cb
Sample : CQICV1,32,,ABN ICV Lot#7787
Misc : wg1186012,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 06 09:36:05 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 09:35:58 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\181204nical\ABNL7.d
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	5.094	108	135963	50.680	ug/ml	99
16) Hexachloroethane	5.298	117	63238	50.629	ug/ml	89
17) n-Nitrosodi-n-propylamine	5.233	70	112103	52.697	ug/ml	99
18) 3-Methylphenol/4-Methy...	5.253	108	144706	51.712	ug/ml	99
20) Nitrobenzene	5.372	77	167237	52.284	ug/ml	99
21) Isophorone	5.622	82	291014	53.591	ug/ml	99
22) 2-Nitrophenol	5.688	139	78386	50.525	ug/ml	96
23) 2,4-Dimethylphenol	5.764	107	148239	54.771	ug/ml	96
24) Bis(2-chloroethoxy)met...	5.850	93	187367	53.819	ug/ml	100
25) 2,4-Dichlorophenol	5.929	162	115140	51.892	ug/ml	98
26) 1,2,4-Trichlorobenzene	6.000	180	118425	48.601	ug/ml	99
35) Naphthalene	6.068	128	455989	48.088	ug/ml	99
36) Benzoic Acid	5.884	105	113802	47.464	ug/ml	96
37) 4-Chloroaniline	6.142	65	63056	52.828	ug/ml	91
38) Hexachlorobutadiene	6.213	225	57400	47.454	ug/ml	100
39) p-Chloro-m-cresol	6.642	107	129156	49.685	ug/ml	95
40) 2-Methylnaphthalene	6.750	142	301450	48.126	ug/ml	98
41) 1-Methylnaphthalene	6.844	115	99796	50.210	ug/ml	87
42) Hexachlorocyclopentadiene	6.918	237	70430	47.724	ug/ml	95
43) 2,4,6-Trichlorophenol	7.040	196	75065	46.940	ug/ml	95
44) 2,4,5-Trichlorophenol	7.071	196	81808	48.604	ug/ml	95
46) 2-Chloronaphthalene	7.219	162	255618	47.159	ug/ml	99
47) 2-Nitroaniline	7.336	138	93091	47.998	ug/ml	98
48) 1,4-Dinitrobenzene	7.466	168	40464	45.763	ug/ml	91
49) 1,3-Dinitrobenzene	7.543	168	47440	48.934	ug/ml	92
50) Dimethyl phthalate	7.537	163	297929	48.577	ug/ml	99
51) Acenaphthylene	7.620	152	438512	49.086	ug/ml	99
52) 2,6-Dinitrotoluene	7.580	165	65173	48.355	ug/ml	92
53) 1,2-Dinitrobenzene	7.625	168	30607	48.334	ug/ml	88
63) 3-Nitroaniline	7.736	138	83788	49.598	ug/ml#	96
64) Acenaphthene	7.790	154	256685	48.408	ug/ml	97
65) 2,4-Dinitrophenol	7.836	184	44072	46.782	ug/ml	96
66) Dibenzofuran	7.961	168	377963	48.918	ug/ml	97
67) 2,4-Dinitrotoluene	7.966	165	94588	52.537	ug/ml	92
68) 4-Nitrophenol	7.932	65	79542	54.117	ug/ml	96
69) 2,3,5,6-Tetrachlorophenol	8.052	232	63696	47.749	ug/ml	99
70) 2,3,4,6-Tetrachlorophenol	8.094	232	64134	47.547	ug/ml	99
71) Diethyl phthalate	8.228	149	320610	48.598	ug/ml	99
72) Fluorene	8.293	166	302364	48.673	ug/ml	99
73) 4-Chlorophenyl phenyl ...	8.310	204	126384	47.080	ug/ml	97

Data Path : I:\8270\SV103\181204nical\
Data File : ABNICV.d
Acq On : 5 Dec 2018 8:39 am
Operator : SV103:cb
Sample : CQICV1,32,,ABN ICV Lot#7787
Misc : wg1186012,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 06 09:36:05 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 09:35:58 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\181204nical\ABNL7.d
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74)	4-Nitroaniline	8.330	138	89055	53.441	ug/ml	93
75)	4,6-Dinitro-o-cresol	8.359	198	53012	49.185	ug/ml	92
76)	NDPA/DPA	8.427	169	259771	49.520	ug/ml	95
77)	Azobenzene	8.461	77	392434	55.818	ug/ml	95
79)	4-Bromophenyl phenyl e...	8.782	248	70635	48.910	ug/ml	95
80)	Hexachlorobenzene	8.830	284	74244	47.524	ug/ml#	91
81)	Pentachlorophenol	9.029	266	45297	45.794	ug/ml	99
88)	Phenanthrene	9.220	178	447072	48.235	ug/ml	99
89)	Anthracene	9.268	178	450286	48.835	ug/ml	98
90)	Carbazole	9.441	167	435153	50.902	ug/ml	98
91)	Di-n-butylphthalate	9.825	149	576823	52.719	ug/ml	100
92)	Fluoranthene	10.379	202	457227	50.375	ug/ml#	95
93)	Benzidine	10.541	184	330356	53.067	ug/ml	99
94)	Pyrene	10.603	202	482265	51.248	ug/ml	99
96)	Butyl benzyl phthalate	11.410	149	259508	53.530	ug/ml	98
104)	Benzo(a)anthracene	12.058	228	465086	47.817	ug/ml	99
105)	3,3'-Dichlorobenzidine	12.067	252	179915	50.835	ug/ml	97
106)	Chrysene	12.106	228	436832	47.560	ug/ml	100
107)	Bis(2-ethylhexyl)phtha...	12.234	149	392603	51.117	ug/ml	98
108)	Di-n-octylphthalate	13.229	149	668167	50.282	ug/ml	97
109)	Benzo(b)fluoranthene	13.638	252	436010	48.970	ug/ml#	95
110)	Benzo(k)fluoranthene	13.683	252	443181	49.562	ug/ml#	95
111)	Benzo(a)pyrene	14.130	252	432883	50.145	ug/ml#	94
113)	Indeno(1,2,3-cd)pyrene	15.832	276	403064	48.584	ug/mL#	91
114)	Dibenzo(a,h)anthracene	15.886	278	411988	48.608	ug/ml#	93
115)	Benzo(ghi)perylene	16.209	276	431688	49.080	ug/ml#	90

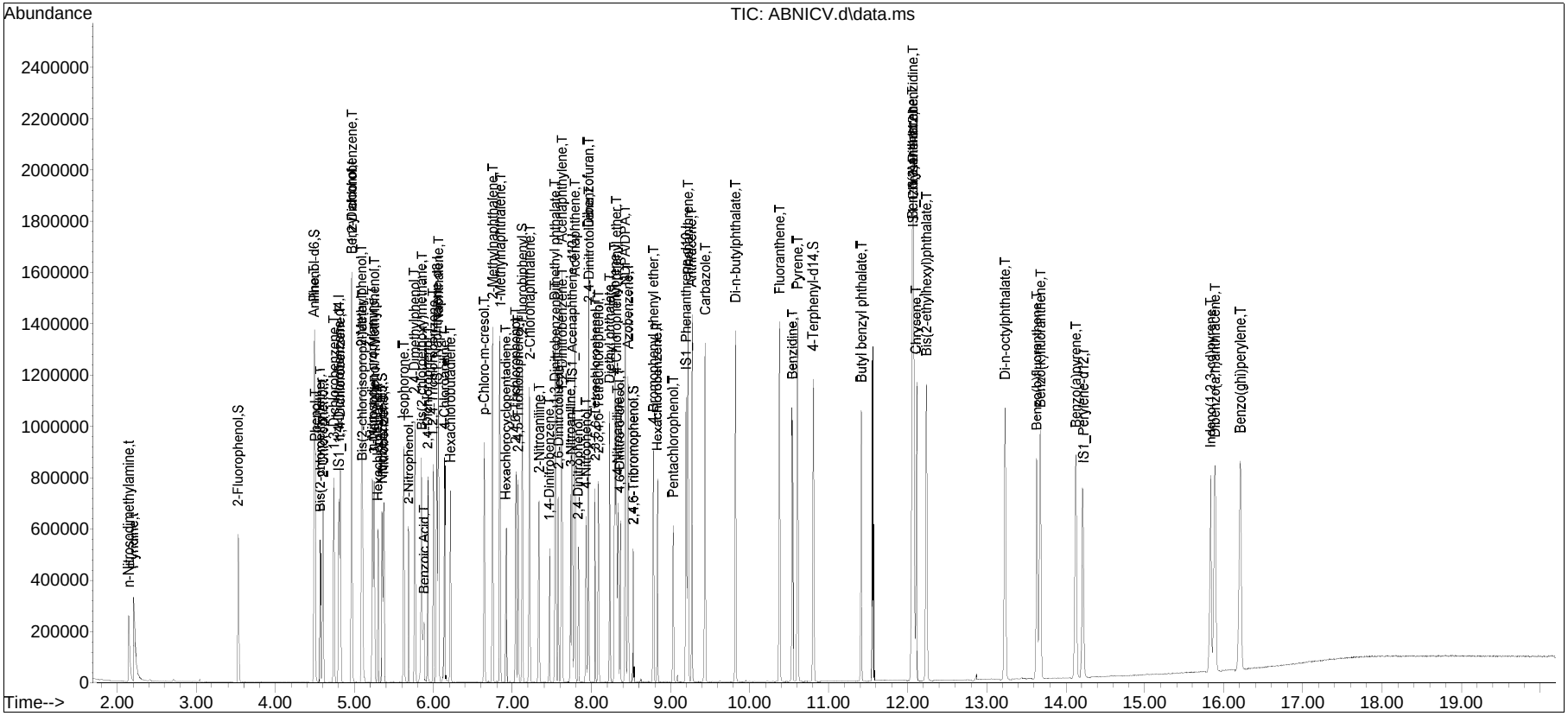
(#) = qualifier out of range (m) = manual integration (+) = signals summed

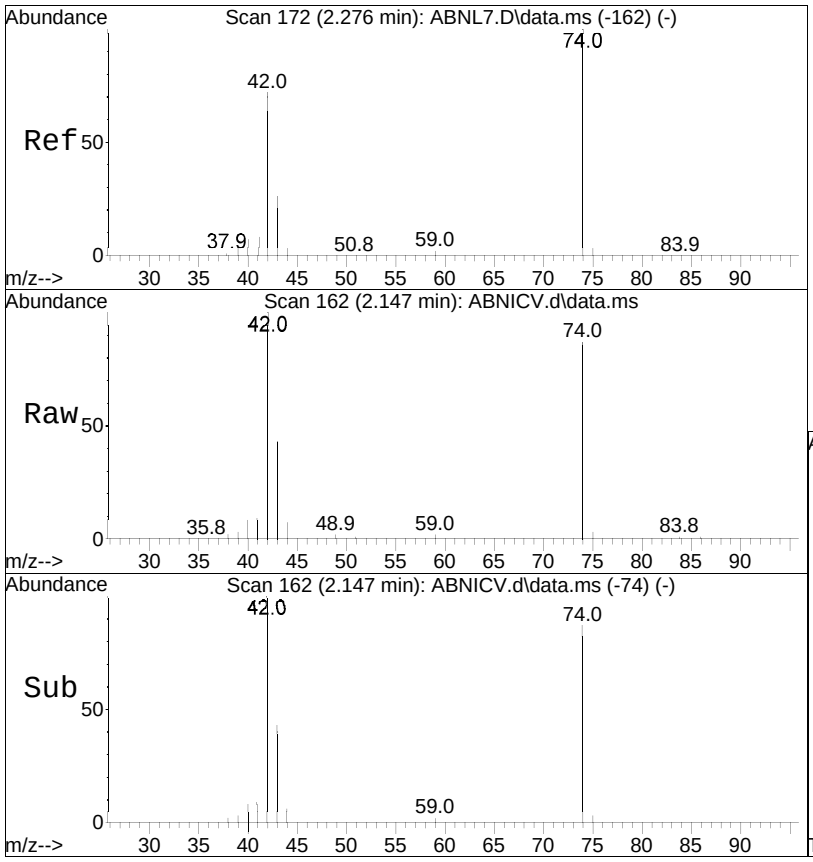
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181204nical\
Data File : ABNICV.d
Acq On : 5 Dec 2018 8:39 am
Operator : SV103:cb
Sample : CQICV1,32,,ABN ICV Lot#7787
Misc : wg1186012,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 06 09:36:05 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 09:35:58 2018
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublistcal\ABNL7.d•

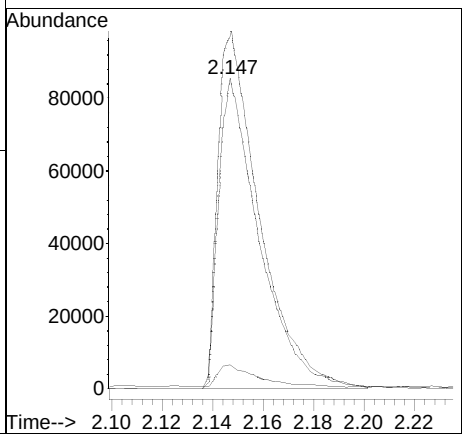


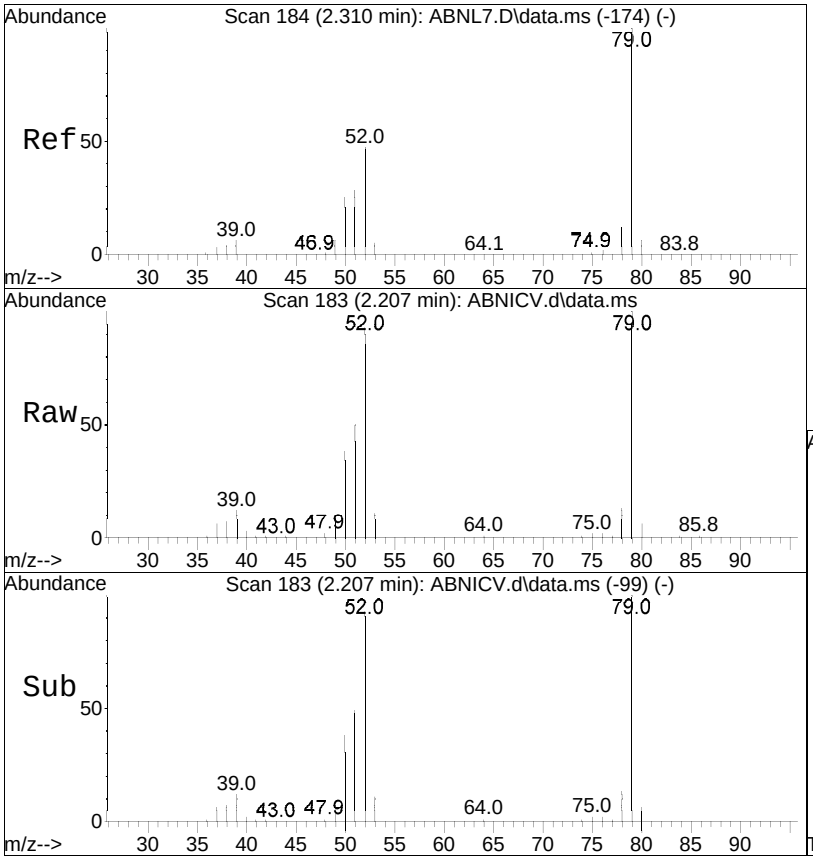


#2
n-Nitrosodimethylamine
Concen: 52.51 ug/ml
RT: 2.147 min Scan# 162
Delta R.T. 0.000 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion: 74 Resp: 95275

Ion	Ratio	Lower	Upper
74	100		
42	118.3	74.5	111.7#
44	7.1	5.5	8.3

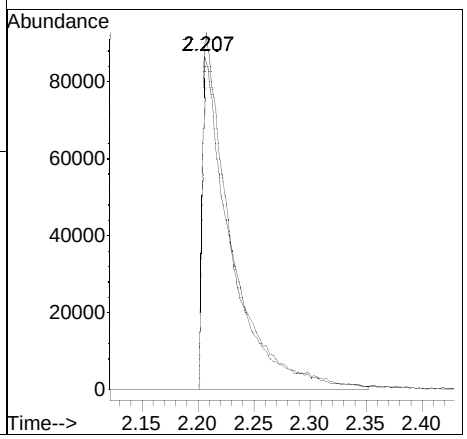


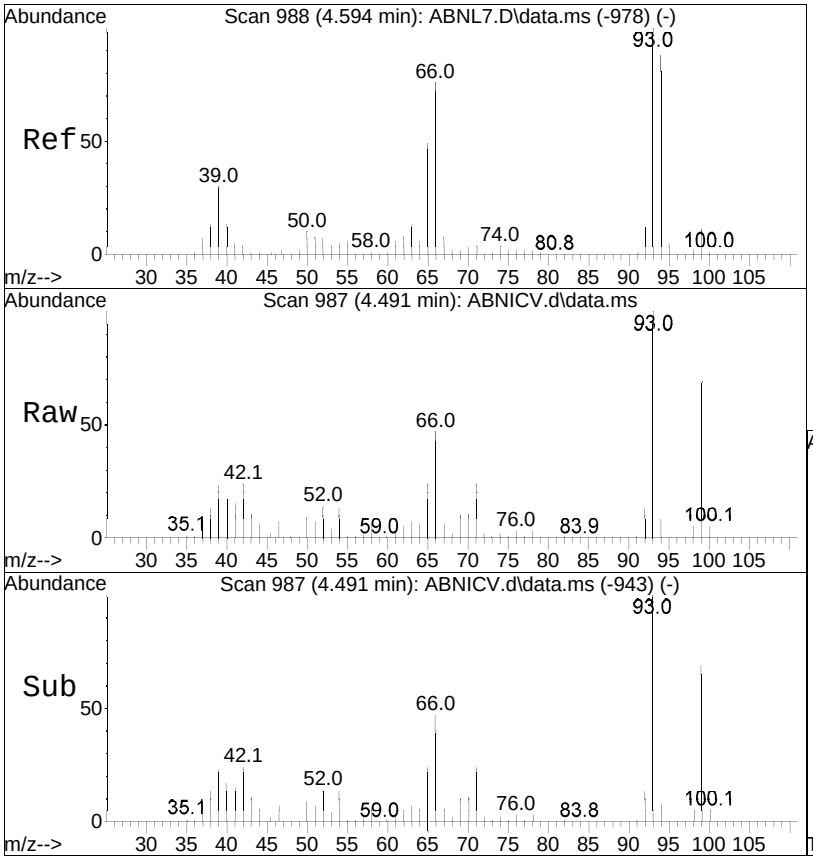


#3
Pyridine
Concen: 58.10 ug/ml
RT: 2.207 min Scan# 183
Delta R.T. -0.011 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion: 79 Resp: 164809

Ion	Ratio	Lower	Upper
79	100		
52	91.7	72.9	109.3

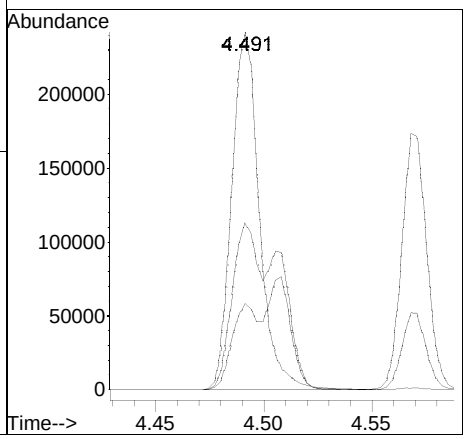


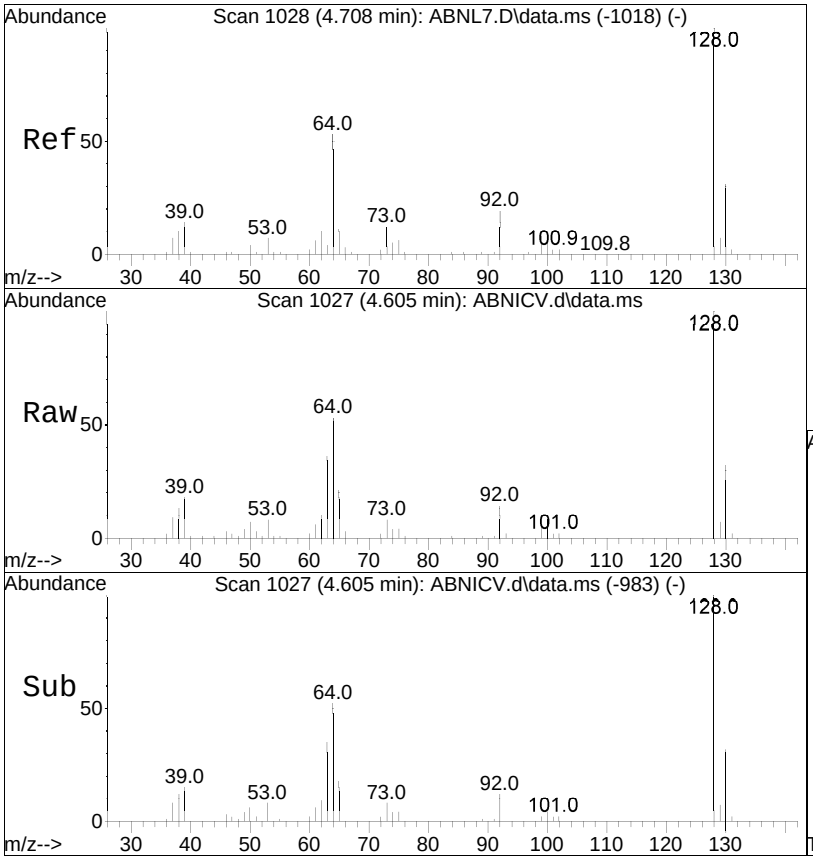


#5
Aniline
Concen: 49.00 ug/ml
RT: 4.491 min Scan# 987
Delta R.T. 0.000 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion: 93 Resp: 215456

Ion	Ratio	Lower	Upper
93	100		
66	46.7	37.3	55.9
65	21.3	16.7	25.1

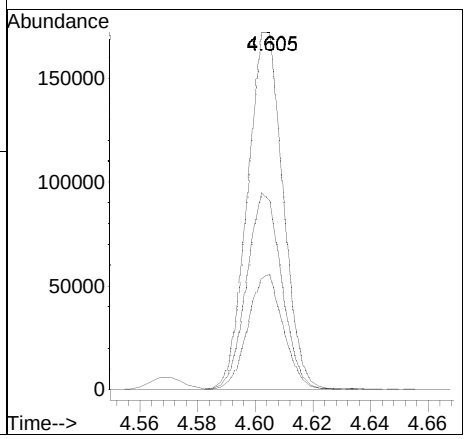


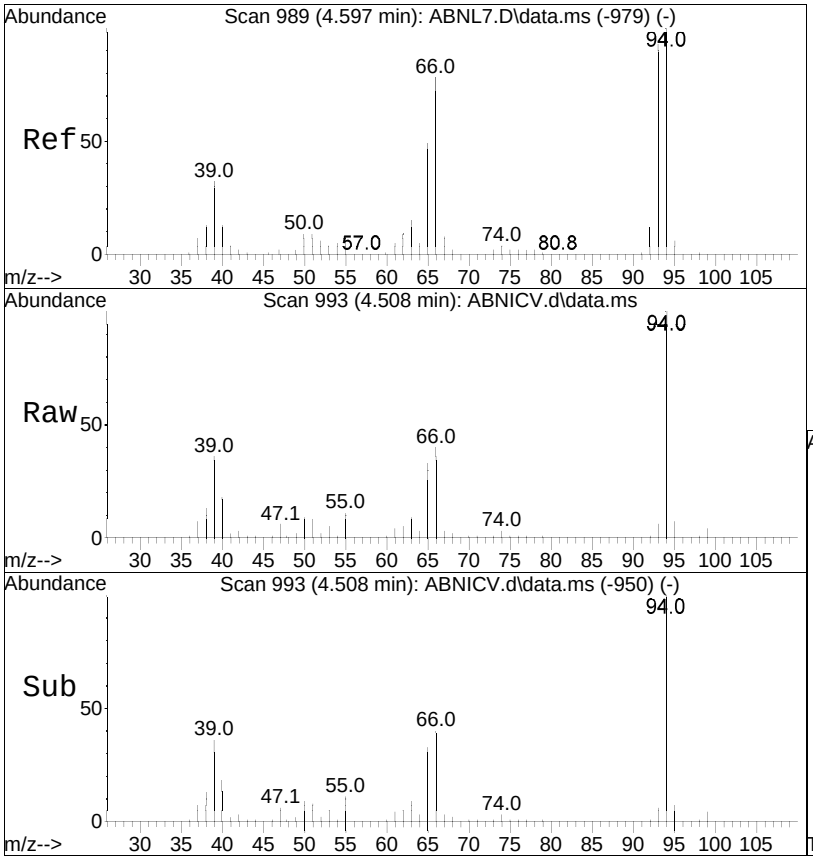


#6
2-Chlorophenol
Concen: 48.57 ug/ml
RT: 4.605 min Scan# 1027
Delta R.T. 0.000 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion:128 Resp: 146139

Ion	Ratio	Lower	Upper
128	100		
64	54.1	42.7	64.1
130	32.2	25.8	38.6

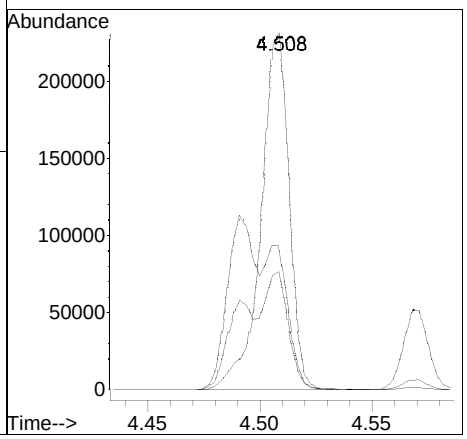


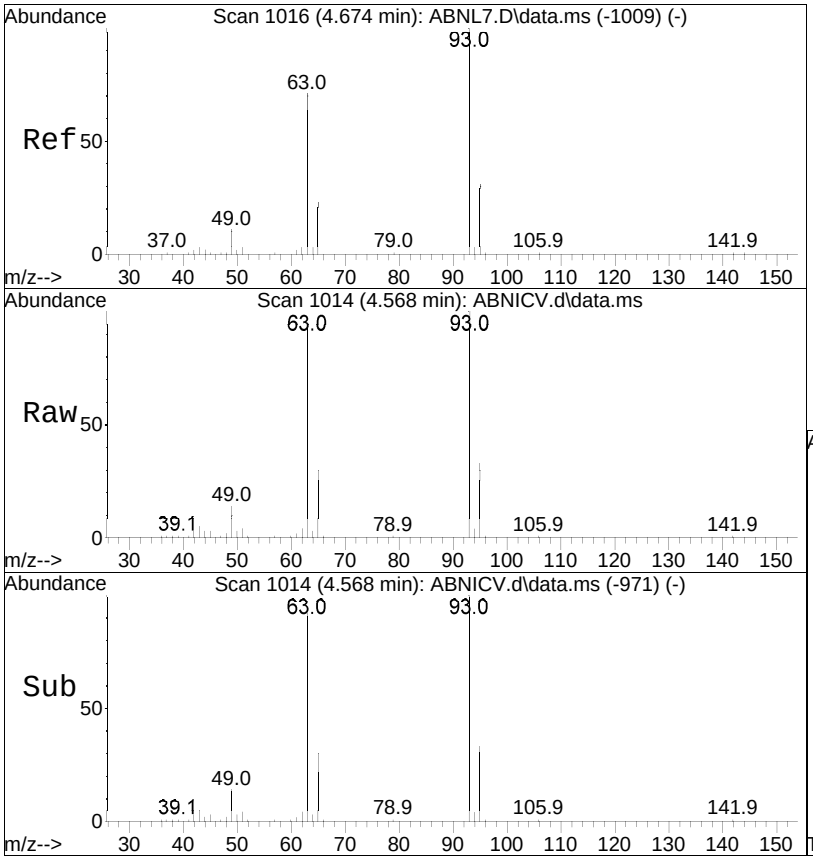


#8
Phenol
Concen: 49.79 ug/ml
RT: 4.508 min Scan# 993
Delta R.T. -0.003 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion: 94 Resp: 200228

Ion	Ratio	Lower	Upper
94	100		
65	30.9	20.5	30.7#
66	0.0	0.0	0.0

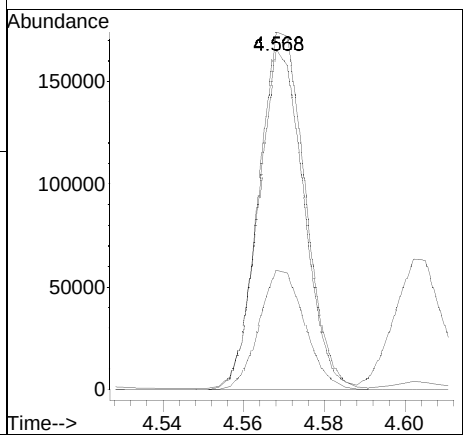


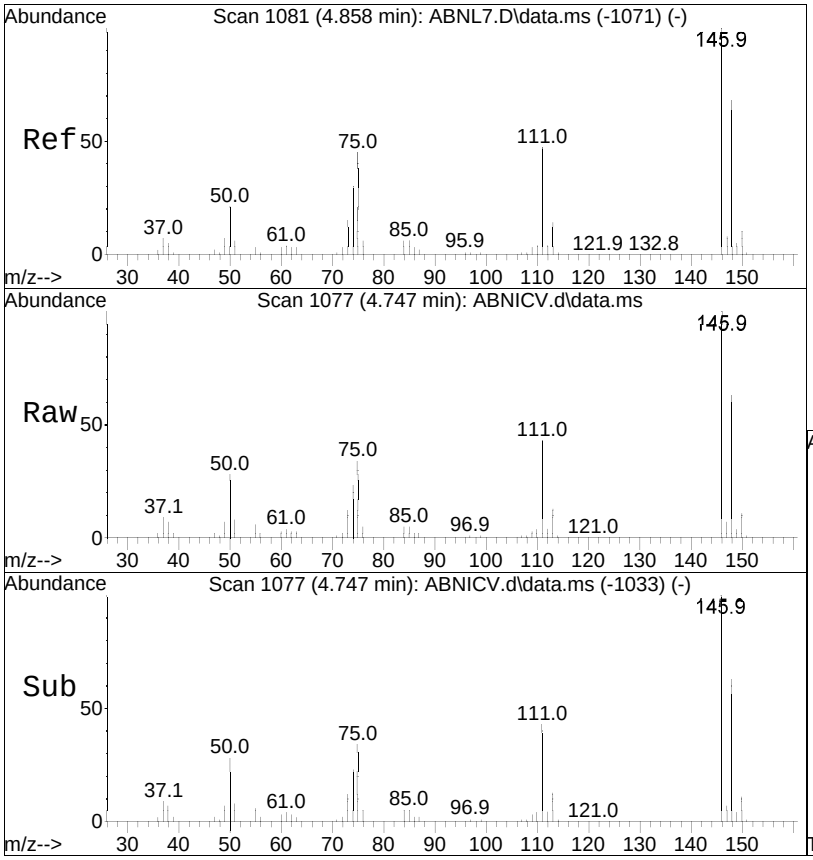


#9
Bis(2-chloroethyl)ether
Concen: 48.40 ug/ml
RT: 4.568 min Scan# 1014
Delta R.T. -0.003 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion: 93 Resp: 138635

Ion	Ratio	Lower	Upper
93	100		
63	92.4	70.4	105.6
95	32.9	25.8	38.6

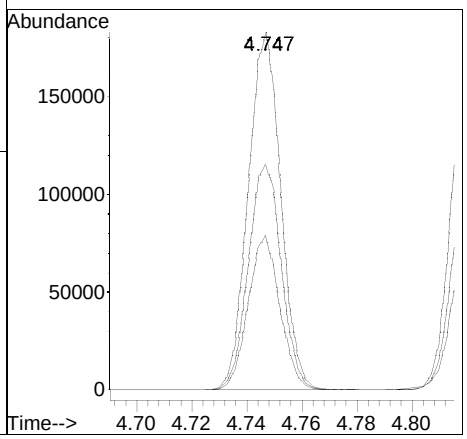


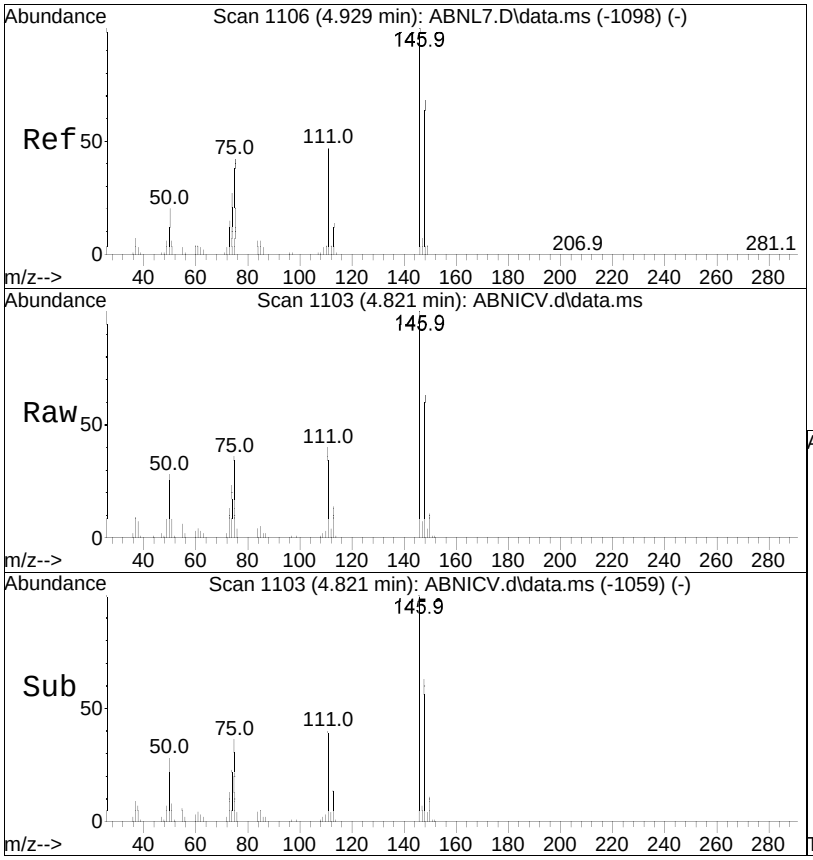


#10
1,3-Dichlorobenzene
Concen: 47.38 ug/ml
RT: 4.747 min Scan# 1077
Delta R.T. 0.000 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion:146 Resp: 150103

Ion	Ratio	Lower	Upper
146	100		
111	42.3	35.8	53.6
148	64.2	51.2	76.8

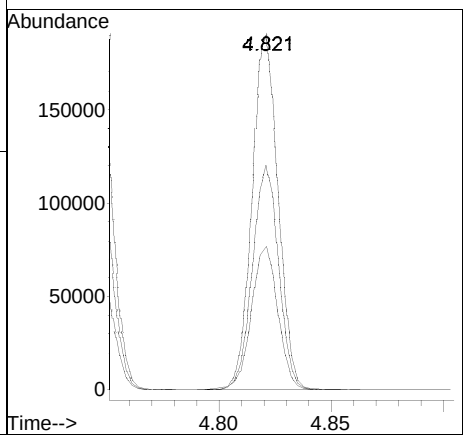


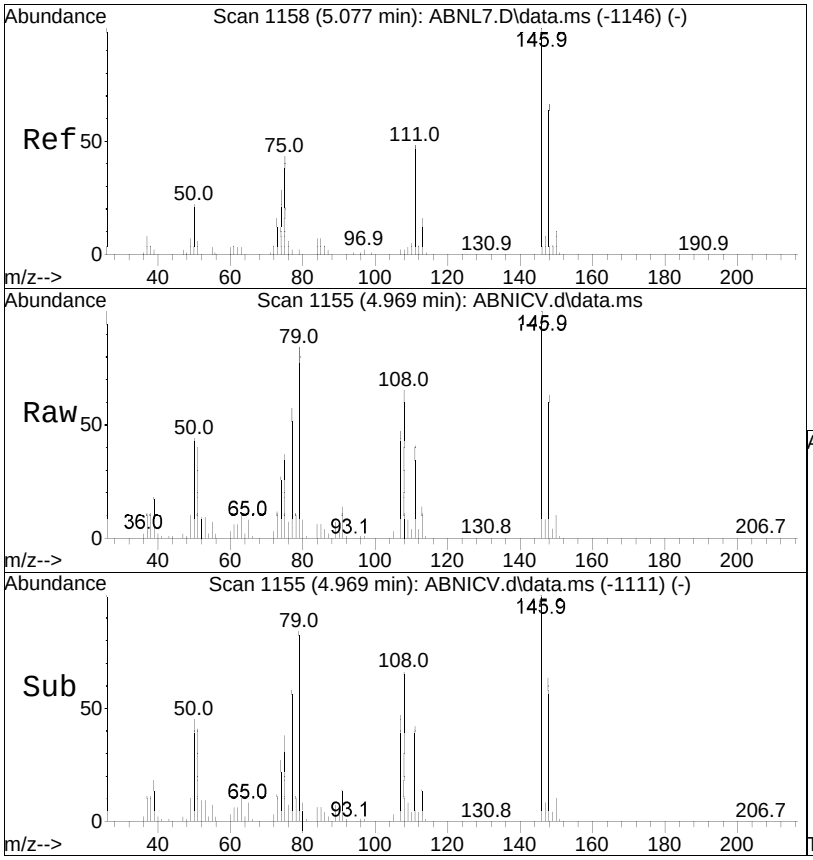


#11
1,4-Dichlorobenzene
Concen: 47.08 ug/ml
RT: 4.821 min Scan# 1103
Delta R.T. 0.000 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion:146 Resp: 153799

Ion	Ratio	Lower	Upper
146	100		
148	63.6	51.6	77.4
111	41.4	35.3	52.9

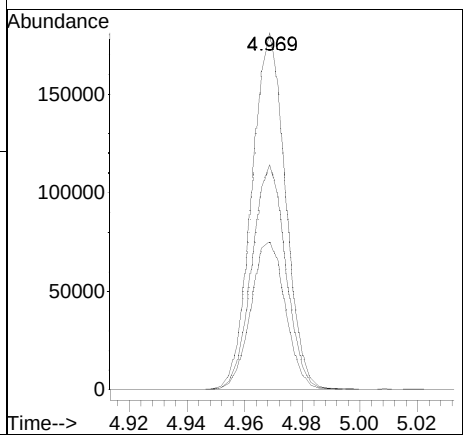


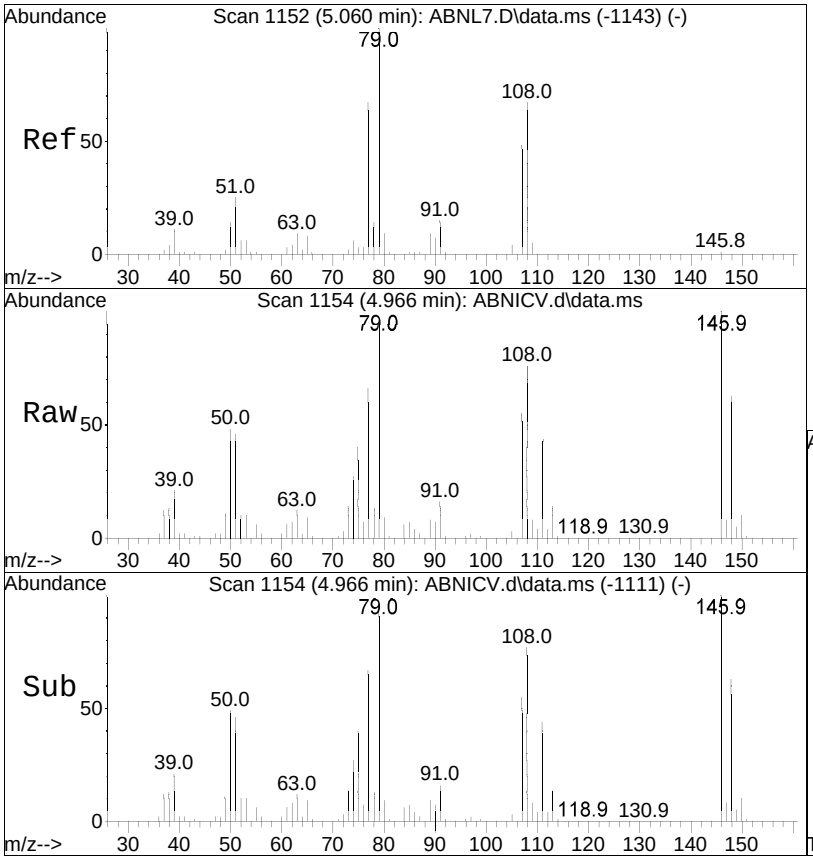


#12
1,2-Dichlorobenzene
Concen: 47.19 ug/ml
RT: 4.969 min Scan# 1155
Delta R.T. -0.000 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion:146 Resp: 146629

Ion	Ratio	Lower	Upper
146	100		
111	42.9	36.0	54.0
148	63.5	49.9	74.9

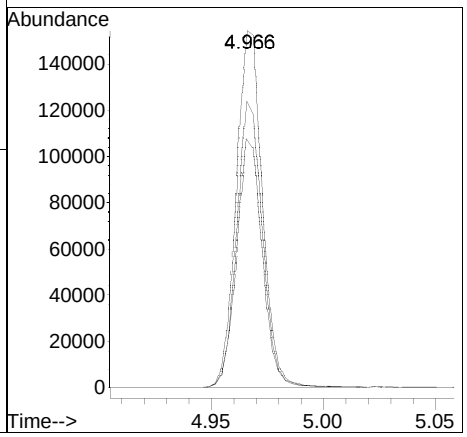


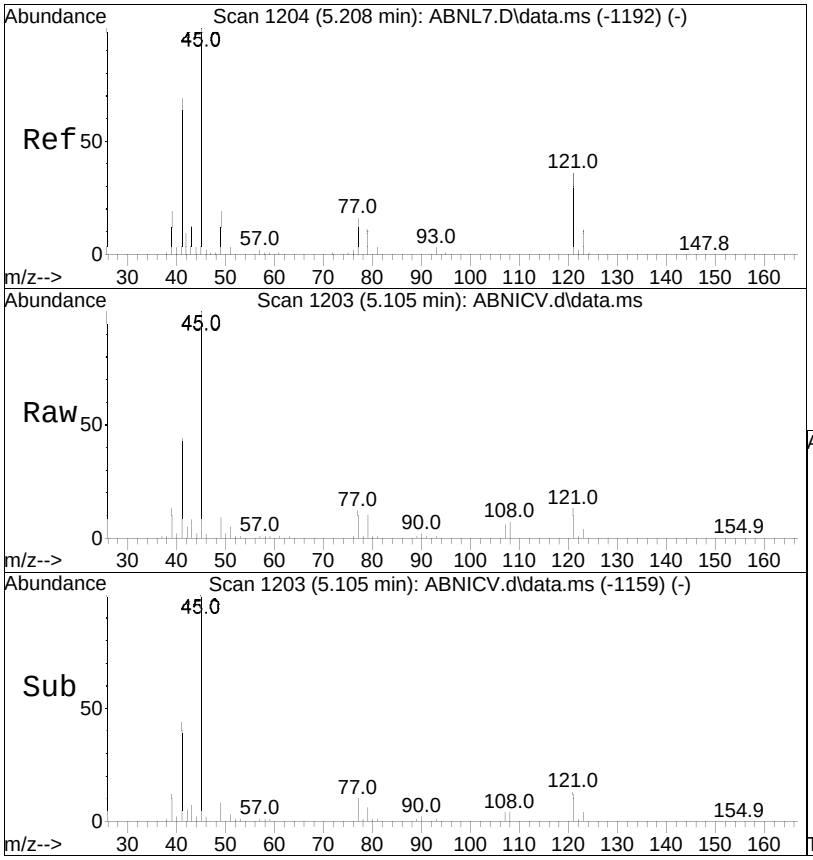


#13
Benzyl alcohol
Concen: 52.32 ug/ml
RT: 4.966 min Scan# 1154
Delta R.T. -0.003 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion: 79 Resp: 124624

Ion	Ratio	Lower	Upper
79	100		
77	68.9	52.3	78.5
108	79.2	60.2	90.4

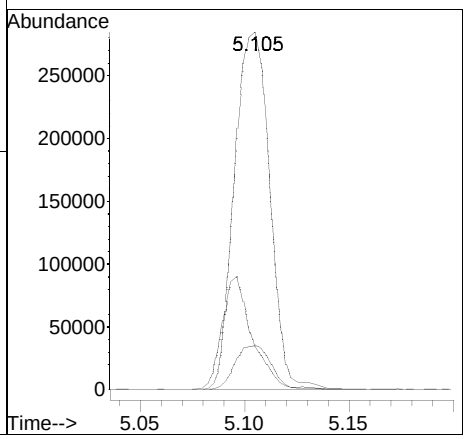


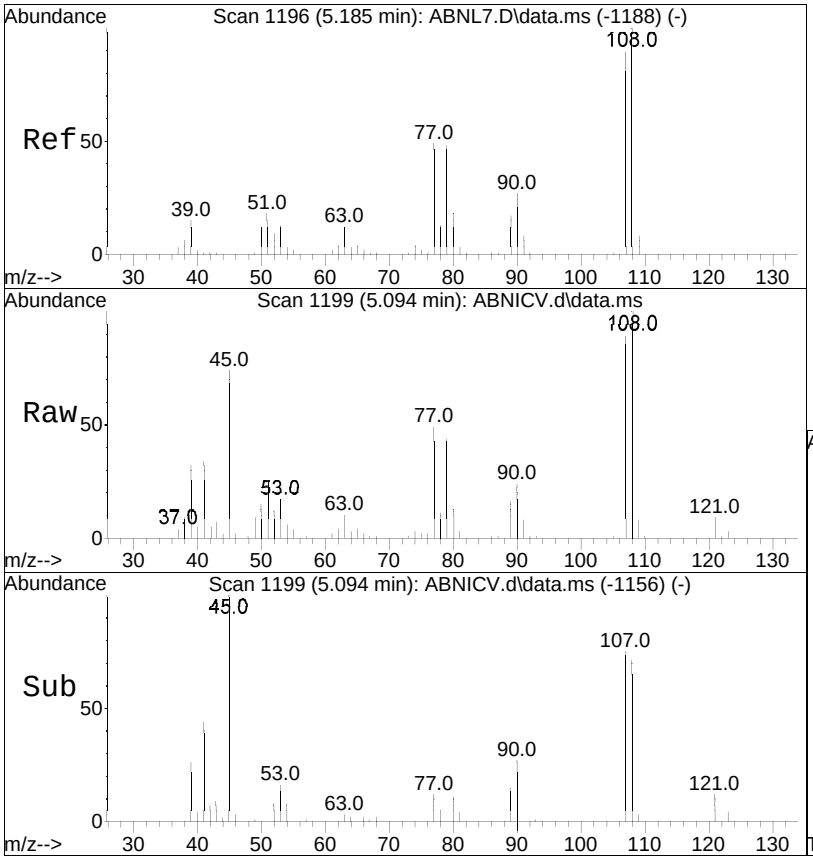


#14
Bis(2-chloroisopropyl)ether
Concen: 56.48 ug/ml
RT: 5.105 min Scan# 1203
Delta R.T. 0.000 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion: 45 Resp: 331648

Ion	Ratio	Lower	Upper
45	100		
121	12.7	12.6	19.0
77	27.2	26.4	39.6

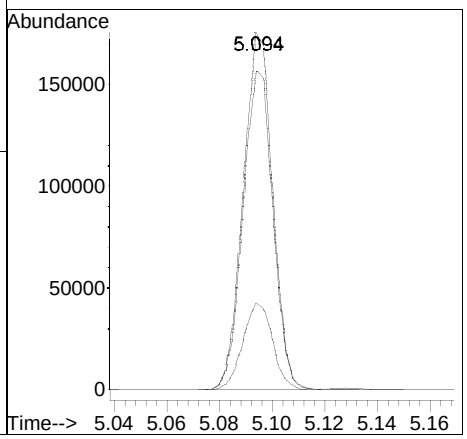


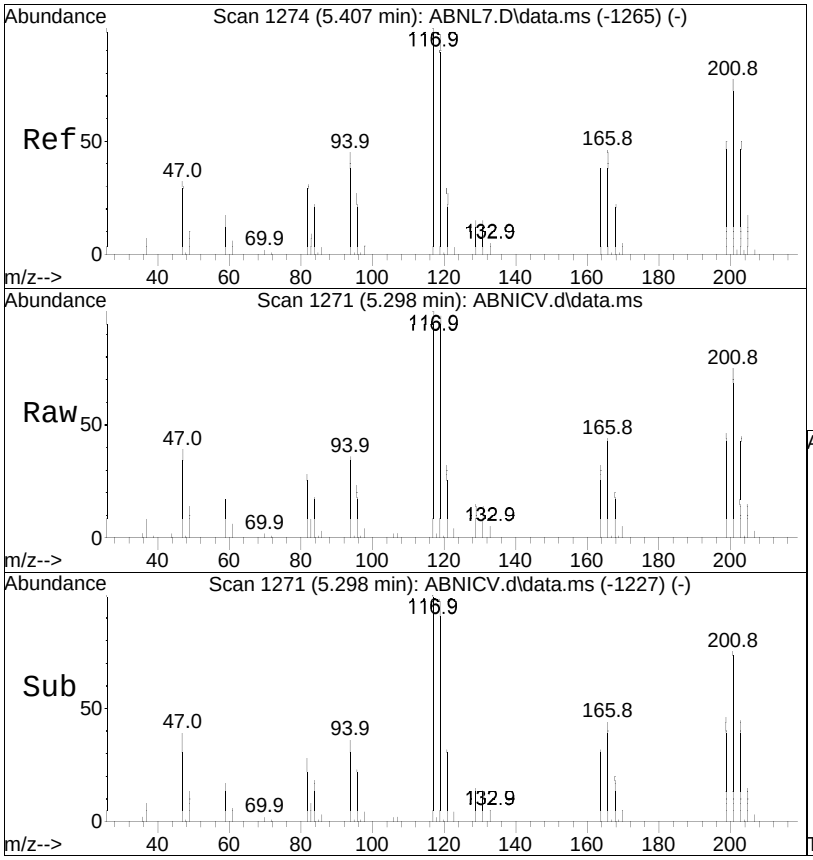


#15
2-Methylphenol
Concen: 50.68 ug/ml
RT: 5.094 min Scan# 1199
Delta R.T. -0.003 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion:108 Resp: 135963

Ion	Ratio	Lower	Upper
108	100		
107	90.2	72.8	109.2
90	24.5	20.2	30.4

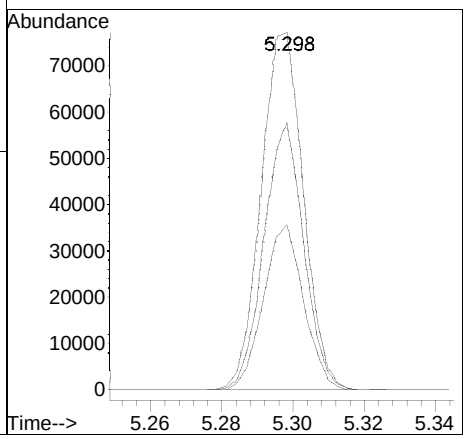


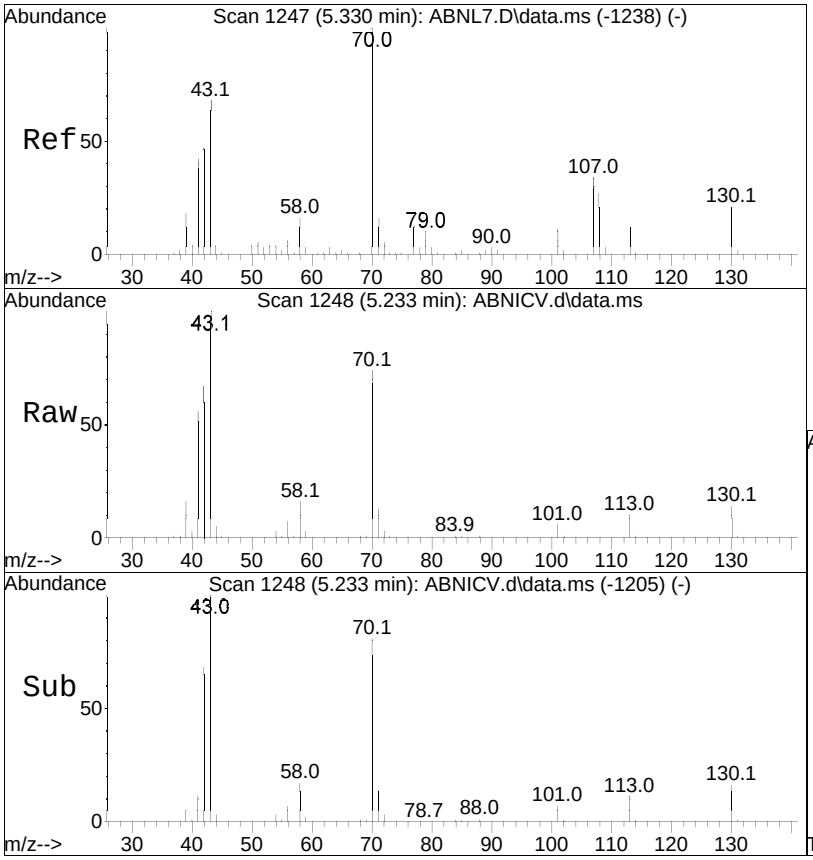


#16
Hexachloroethane
Concen: 50.63 ug/ml
RT: 5.298 min Scan# 1271
Delta R.T. 0.000 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion:117 Resp: 63238

Ion	Ratio	Lower	Upper
117	100		
201	70.4	64.5	96.7
199	44.0	40.3	60.5

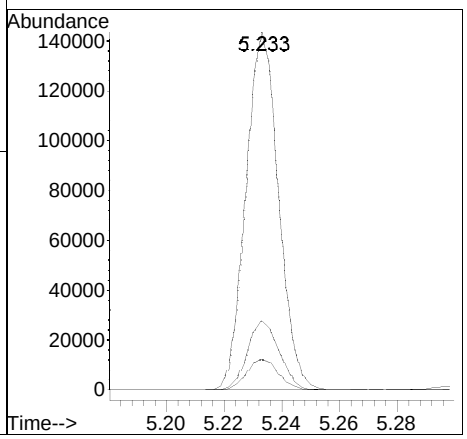


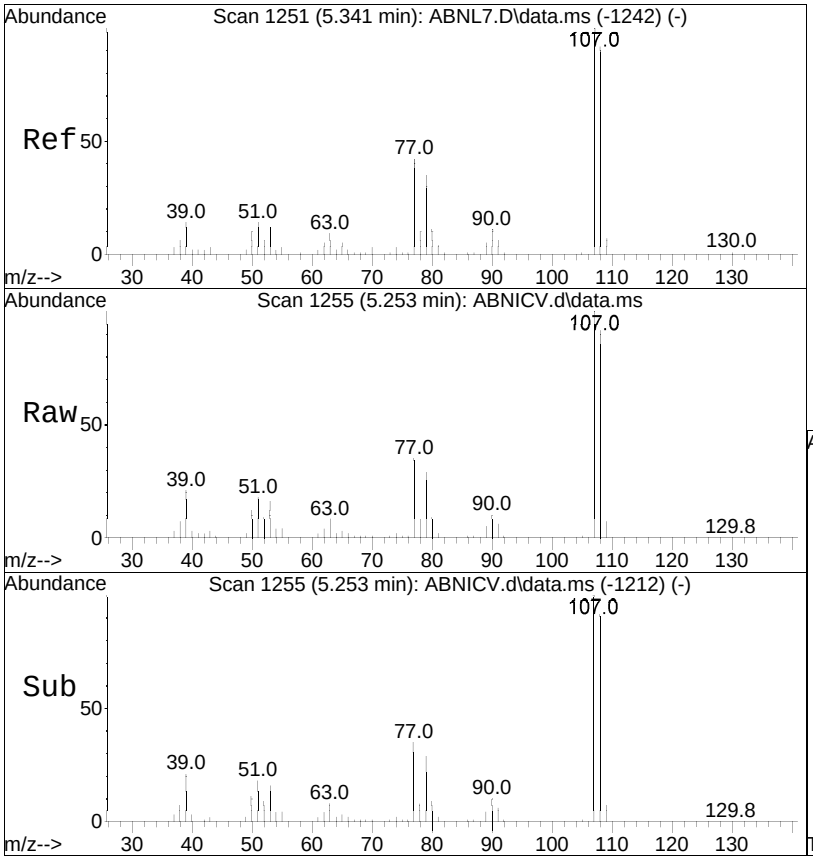


#17
n-Nitrosodi-n-propylamine
Concen: 52.70 ug/ml
RT: 5.233 min Scan# 1248
Delta R.T. -0.003 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion: 70 Resp: 112103

Ion	Ratio	Lower	Upper
70	100		
130	18.9	15.0	22.4
101	8.6	7.4	11.0

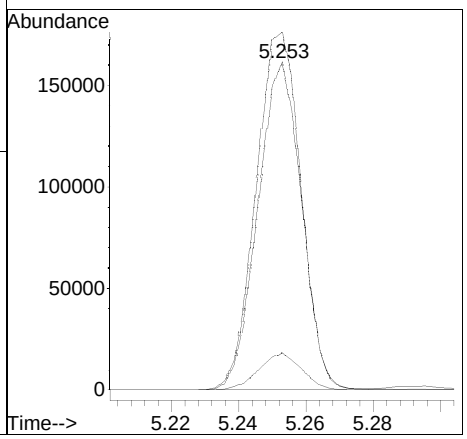


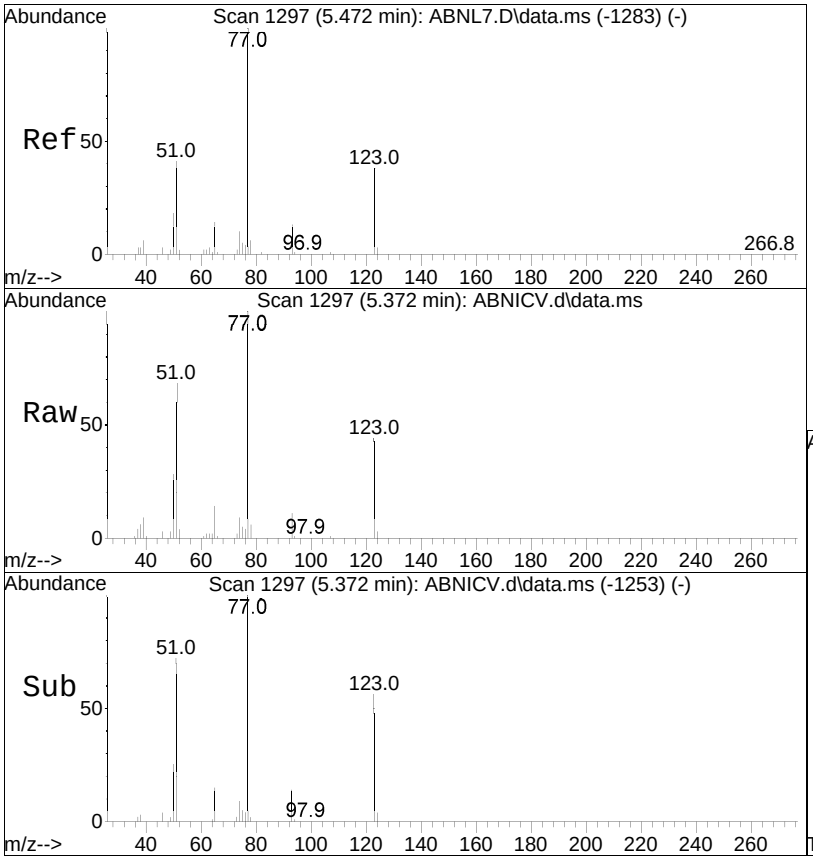


#18
3-Methylphenol/4-Methylphenol
Concen: 51.71 ug/ml
RT: 5.253 min Scan# 1255
Delta R.T. -0.003 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion:108 Resp: 144706

Ion	Ratio	Lower	Upper
108	100		
107	112.3	90.4	135.6
90	11.0	9.2	13.8

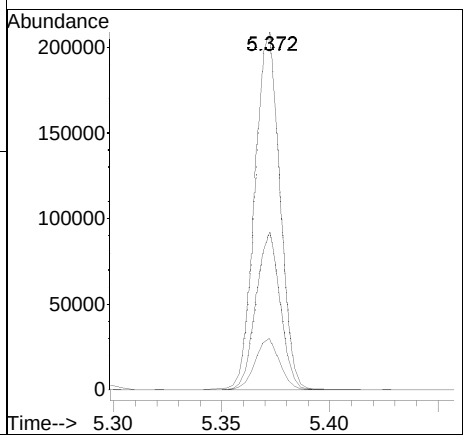


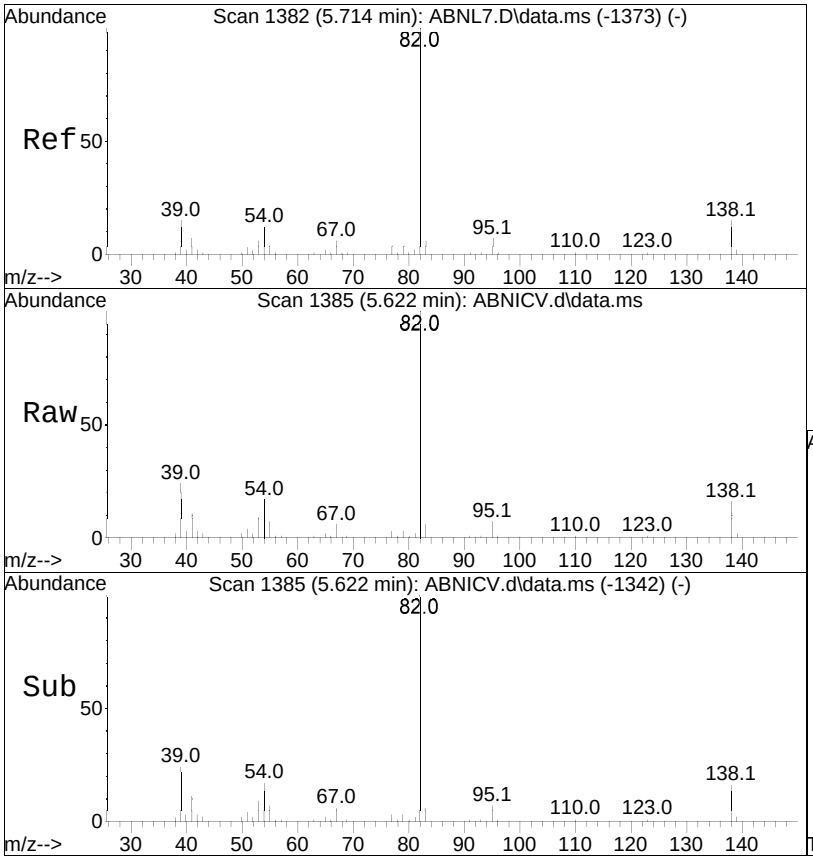


#20
Nitrobenzene
Concen: 52.28 ug/ml
RT: 5.372 min Scan# 1297
Delta R.T. 0.000 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion: 77 Resp: 167237

Ion	Ratio	Lower	Upper
77	100		
123	42.8	35.0	52.4
65	14.1	11.5	17.3

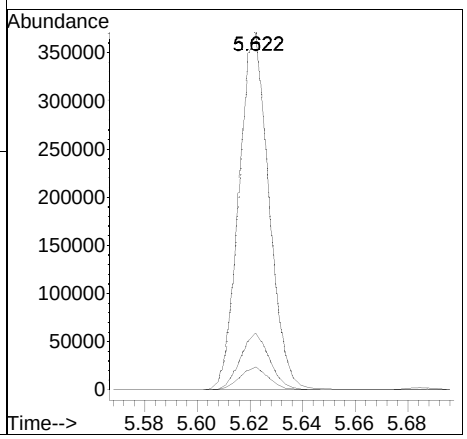


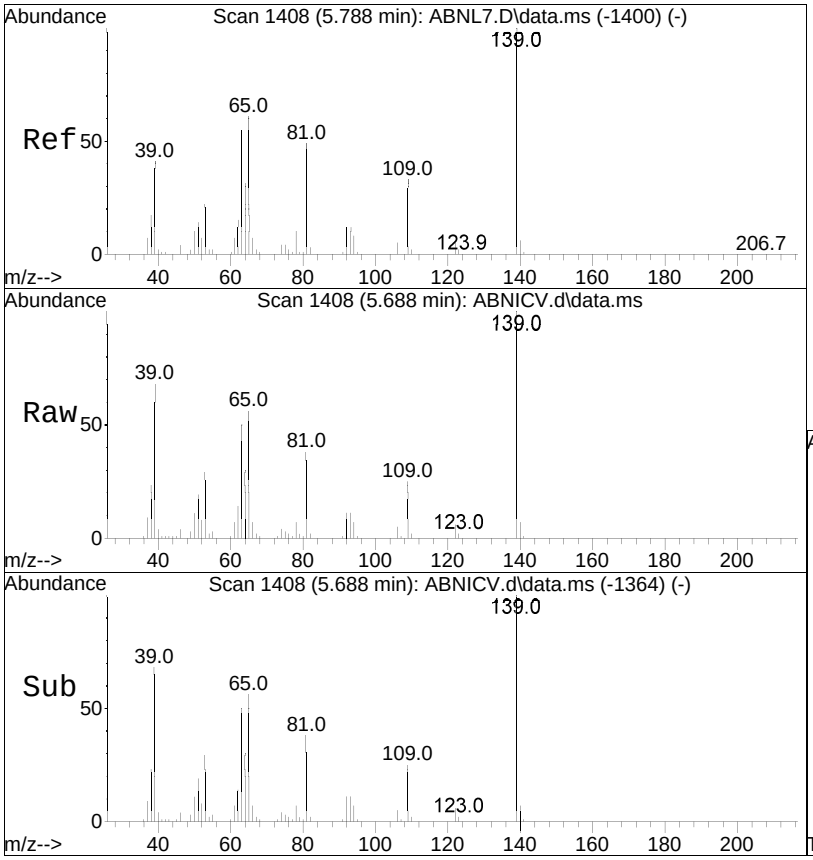


#21
Isophorone
Concen: 53.59 ug/ml
RT: 5.622 min Scan# 1385
Delta R.T. -0.003 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion: 82 Resp: 291014

Ion	Ratio	Lower	Upper
82	100		
138	15.5	12.8	19.2
95	6.2	5.5	8.3

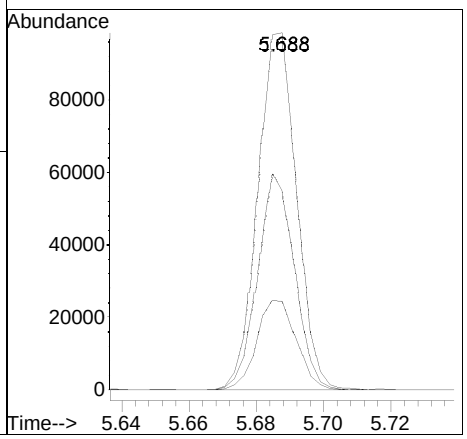


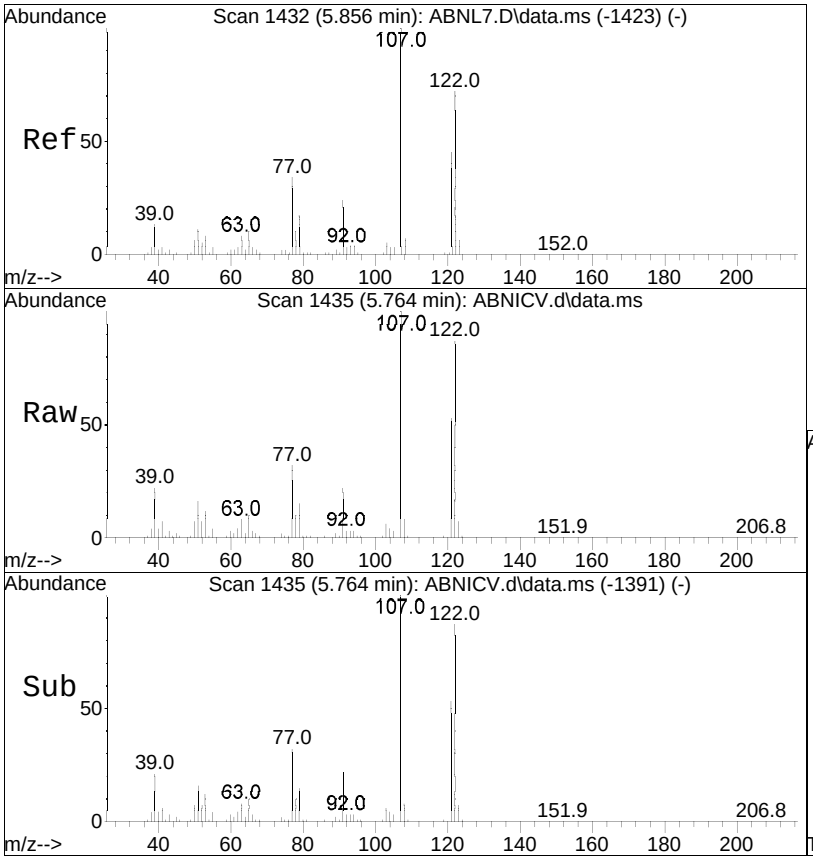


#22
2-Nitrophenol
Concen: 50.53 ug/ml
RT: 5.688 min Scan# 1408
Delta R.T. -0.000 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion:139 Resp: 78386

Ion	Ratio	Lower	Upper
139	100		
109	25.8	24.8	37.2
65	57.5	45.5	68.3

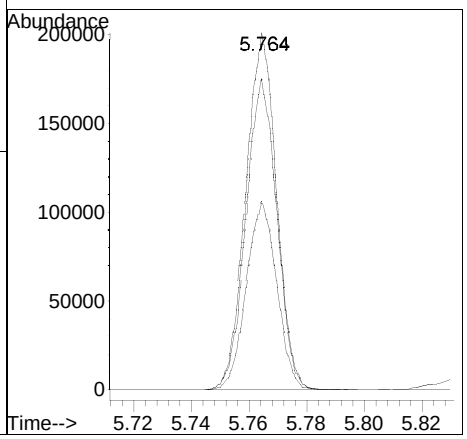


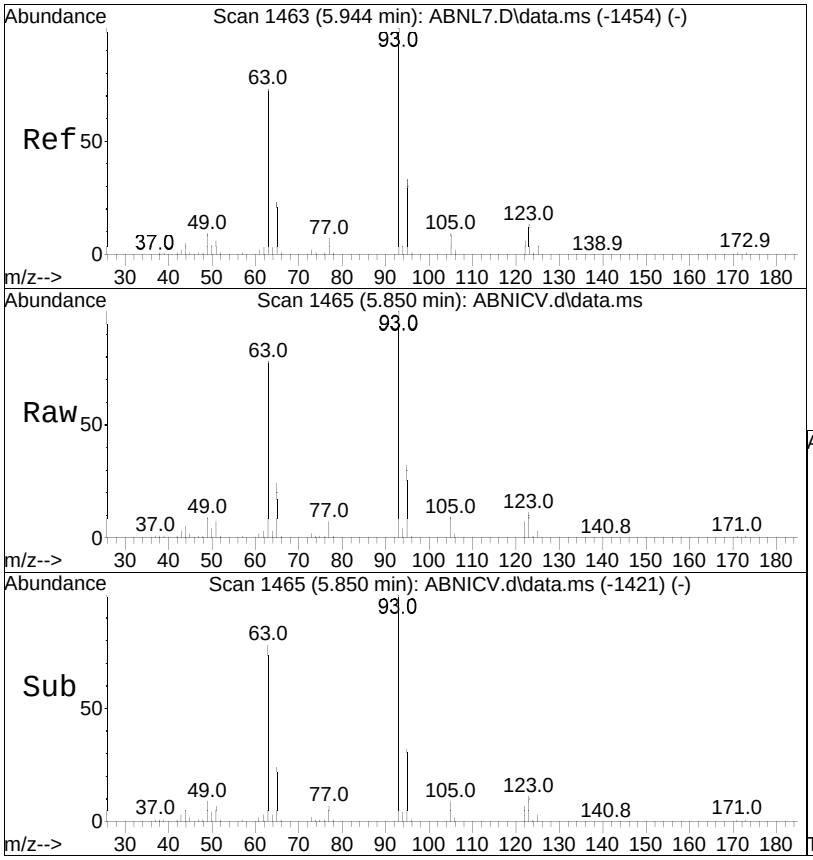


#23
2,4-Dimethylphenol
Concen: 54.77 ug/ml
RT: 5.764 min Scan# 1435
Delta R.T. 0.000 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion:107 Resp: 148239

Ion	Ratio	Lower	Upper
107	100		
121	52.4	39.7	59.5
122	87.5	66.8	100.2

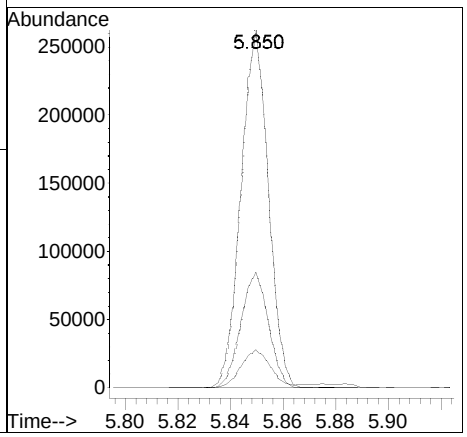


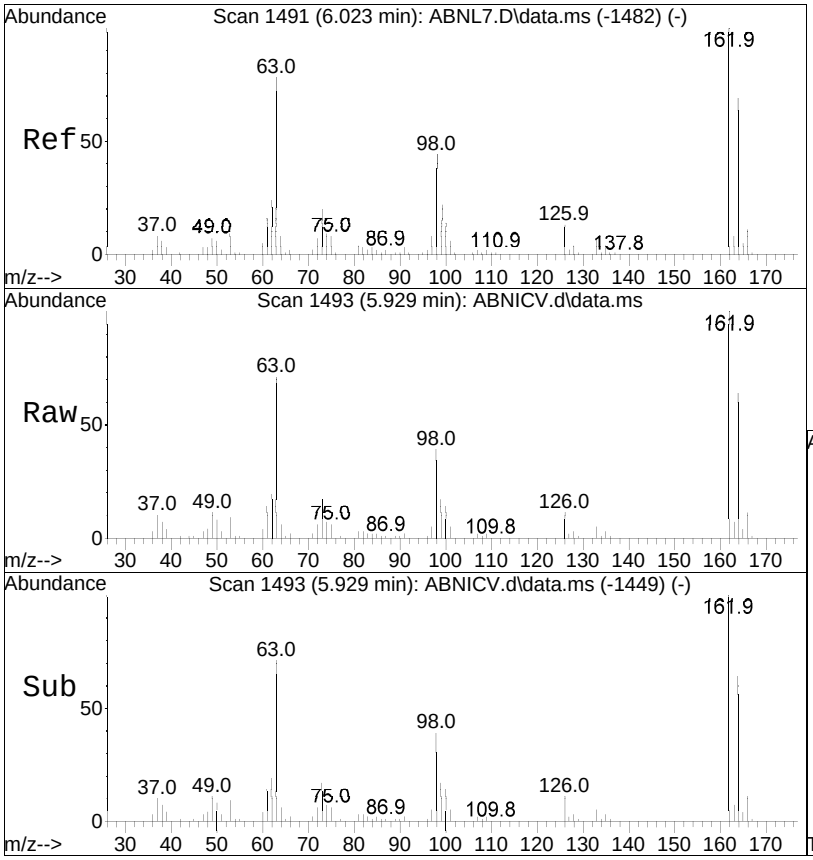


#24
Bis(2-chloroethoxy)methane
Concen: 53.82 ug/ml
RT: 5.850 min Scan# 1465
Delta R.T. -0.000 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion: 93 Resp: 187367

Ion	Ratio	Lower	Upper
93	100		
95	32.8	26.1	39.1
123	12.2	9.8	14.8

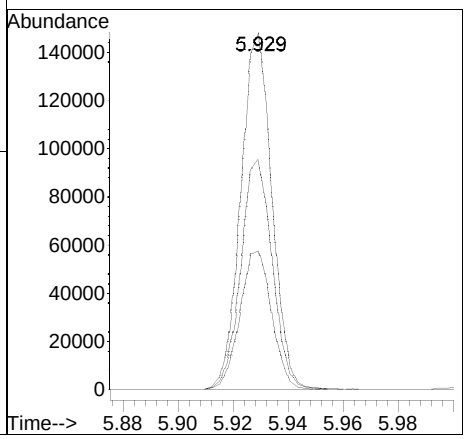


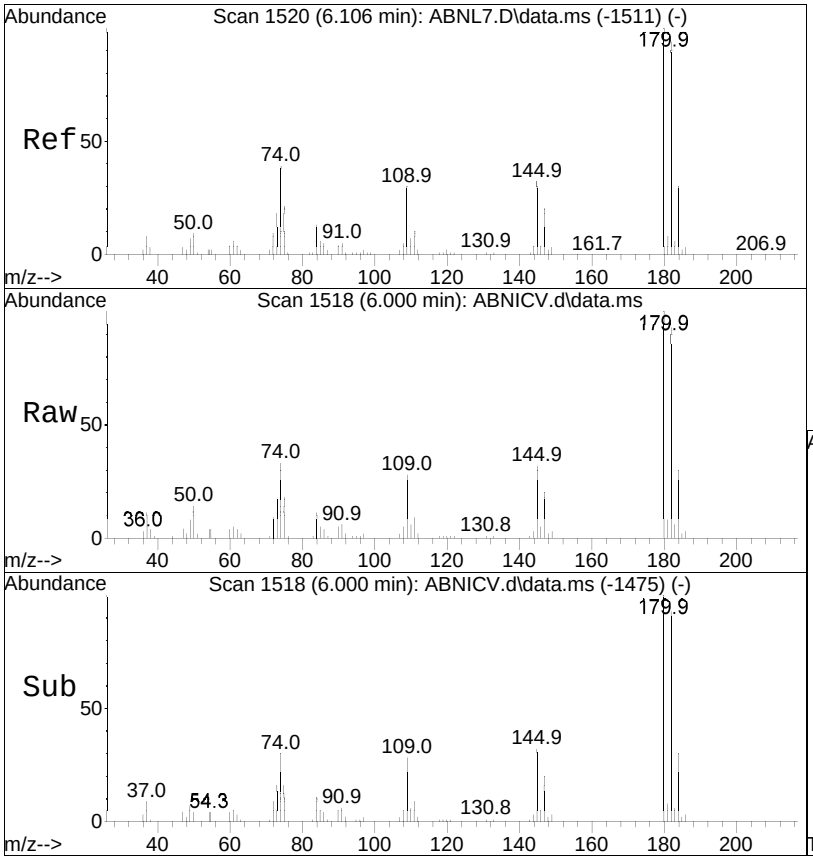


#25
2,4-Dichlorophenol
Concen: 51.89 ug/ml
RT: 5.929 min Scan# 1493
Delta R.T. 0.000 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion:162 Resp: 115140

Ion	Ratio	Lower	Upper
162	100		
164	65.3	50.4	75.6
98	40.0	31.6	47.4

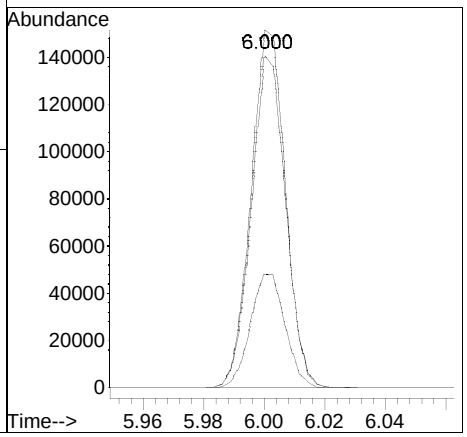


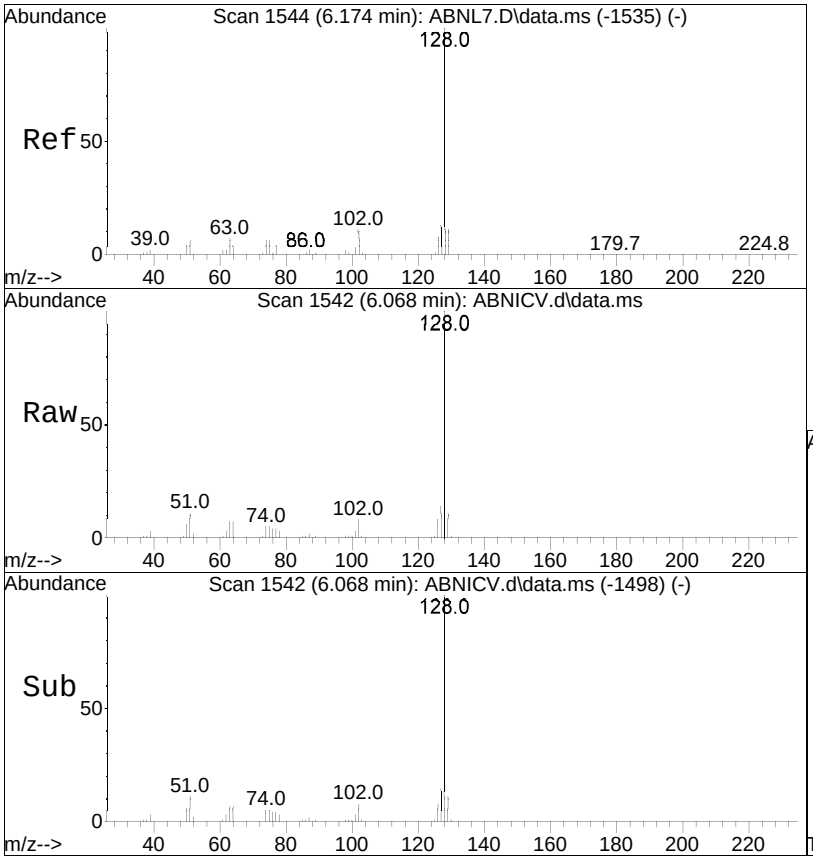


#26
1,2,4-Trichlorobenzene
Concen: 48.60 ug/ml
RT: 6.000 min Scan# 1518
Delta R.T. -0.003 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion:180 Resp: 118425

Ion	Ratio	Lower	Upper
180	100		
182	92.4	74.7	112.1
145	32.3	26.6	39.8

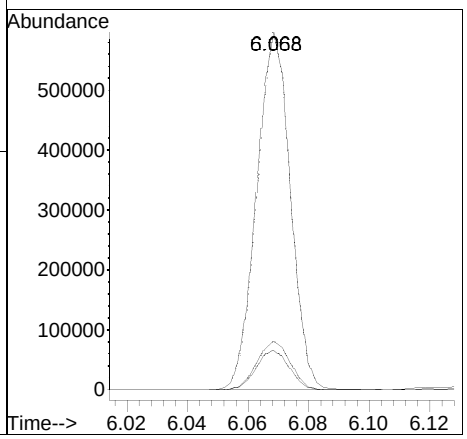


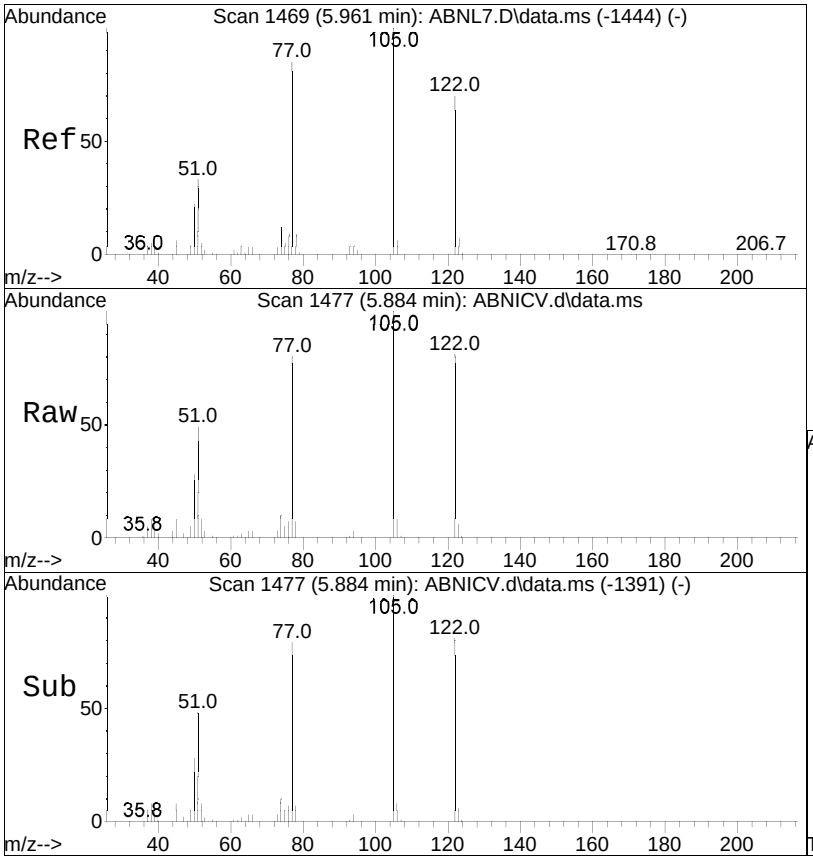


#35
Naphthalene
Concen: 48.09 ug/ml
RT: 6.068 min Scan# 1542
Delta R.T. 0.000 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion:128 Resp: 455989

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.7	13.1
127	13.7	10.7	16.1

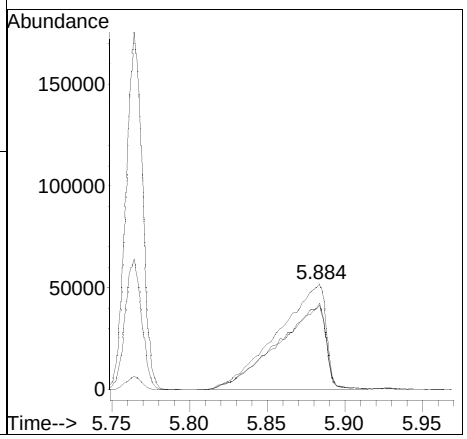


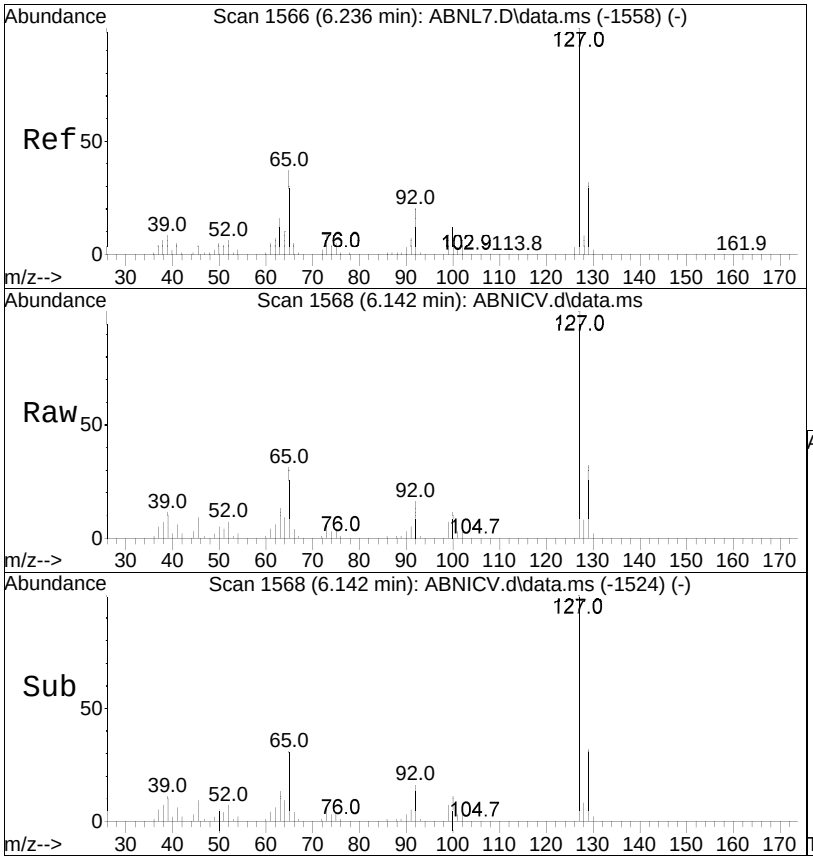


#36
Benzoic Acid
Concen: 47.46 ug/ml
RT: 5.884 min Scan# 1477
Delta R.T. -0.005 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion:105 Resp: 113802

Ion	Ratio	Lower	Upper
105	100		
122	81.2	61.8	92.6
77	80.3	62.2	93.4

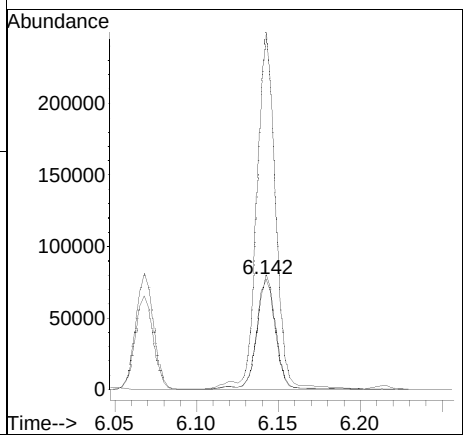


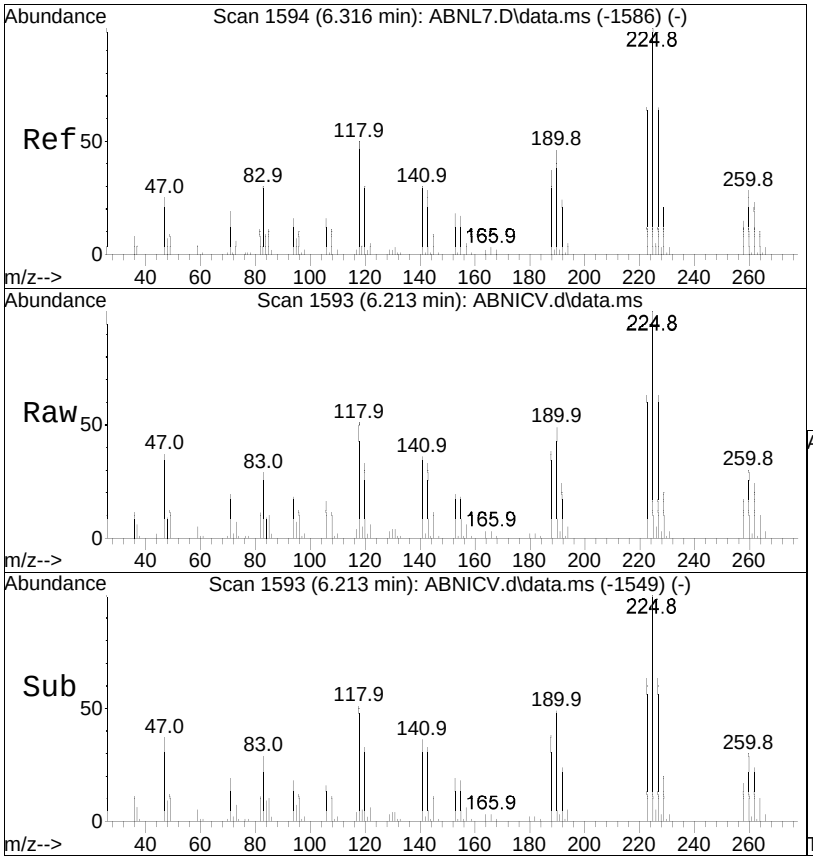


#37
4-Chloroaniline
Concen: 52.83 ug/ml
RT: 6.142 min Scan# 1568
Delta R.T. 0.000 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion: 65 Resp: 63056

Ion	Ratio	Lower	Upper
65	100		
127	311.3	233.2	349.8
129	99.8	74.6	111.8

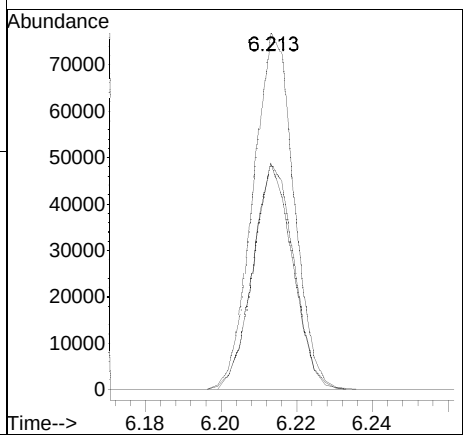


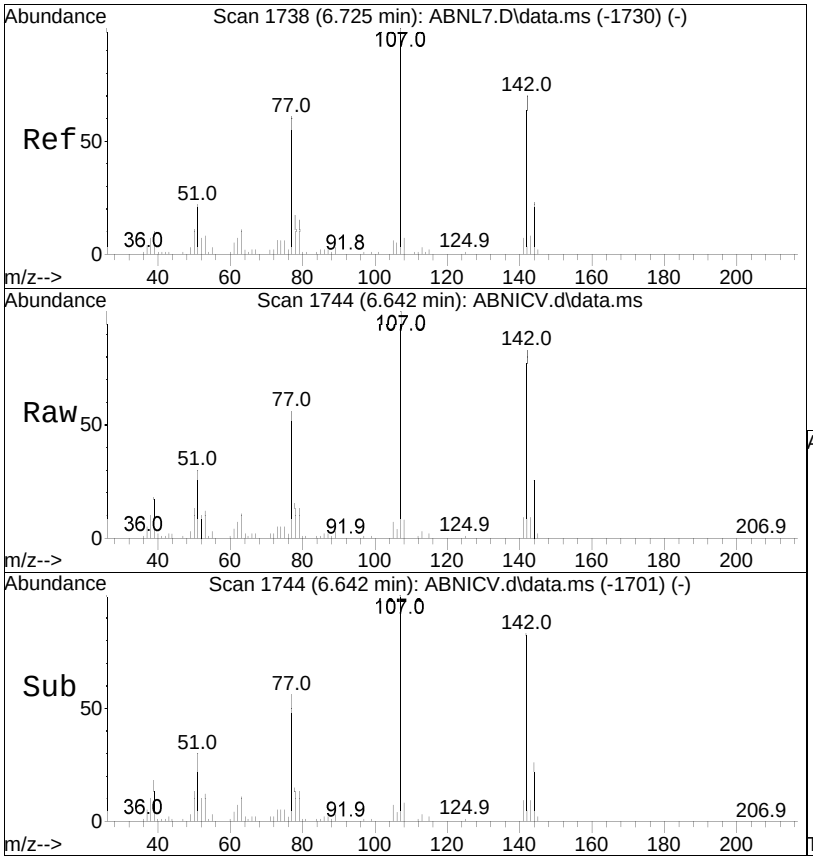


#38
Hexachlorobutadiene
Concen: 47.45 ug/ml
RT: 6.213 min Scan# 1593
Delta R.T. 0.000 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion:225 Resp: 57400

Ion	Ratio	Lower	Upper
225	100		
223	61.5	49.4	74.0
227	63.9	50.8	76.2

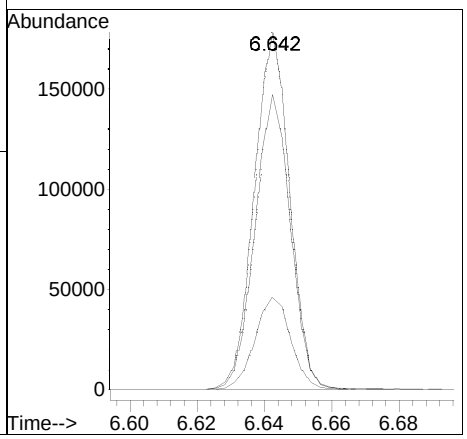


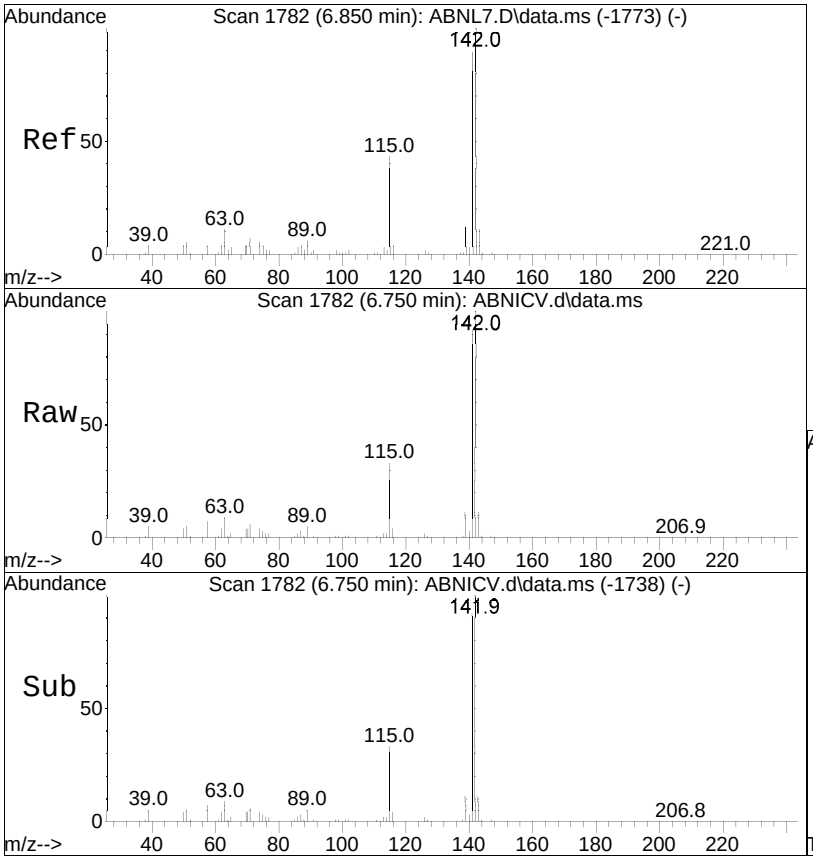


#39
p-Chloro-m-cresol
Concen: 49.68 ug/ml
RT: 6.642 min Scan# 1744
Delta R.T. -0.003 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion:107 Resp: 129156

Ion	Ratio	Lower	Upper
107	100		
144	26.4	19.6	29.4
142	82.9	62.2	93.4

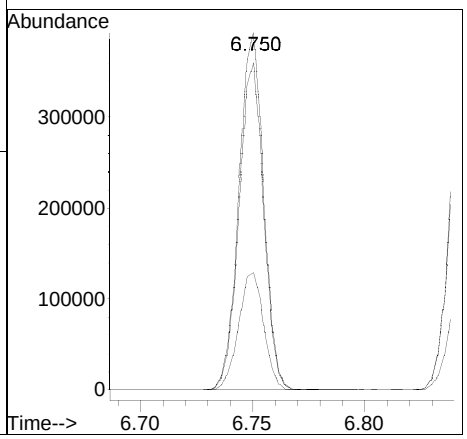


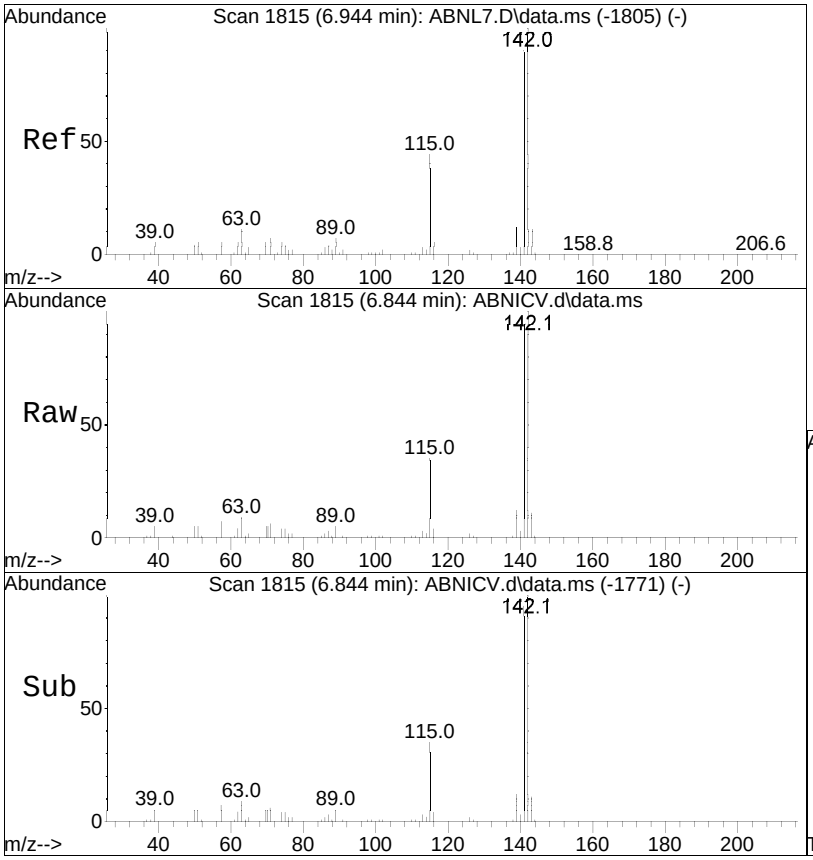


#40
2-Methylnaphthalene
Concen: 48.13 ug/ml
RT: 6.750 min Scan# 1782
Delta R.T. 0.000 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion:142 Resp: 301450

Ion	Ratio	Lower	Upper
142	100		
141	91.0	71.8	107.8
115	33.5	29.1	43.7

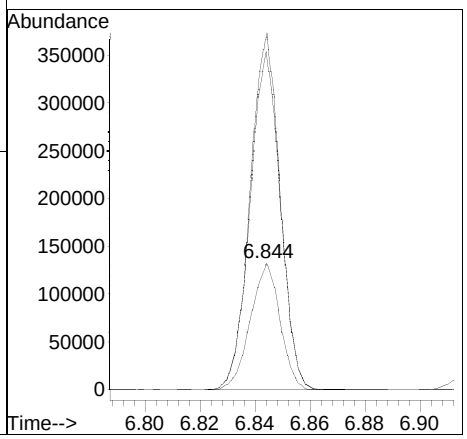


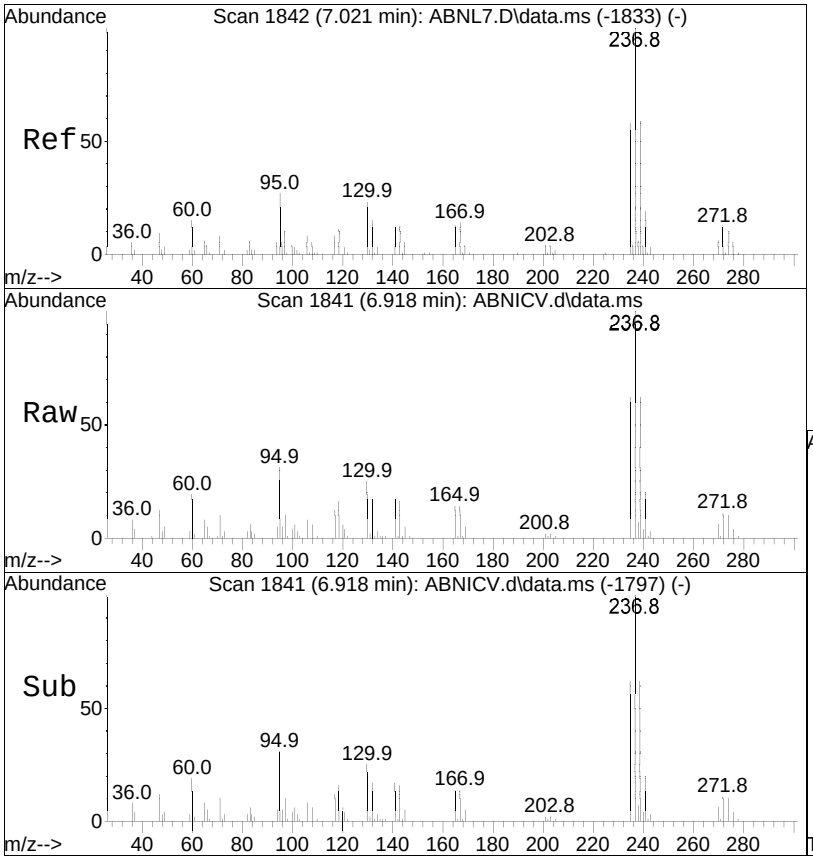


#41
1-Methylnaphthalene
Concen: 50.21 ug/ml
RT: 6.844 min Scan# 1815
Delta R.T. 0.000 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion:115 Resp: 99796

Ion	Ratio	Lower	Upper
115	100		
141	271.0	196.6	294.8
142	283.5	209.2	313.8

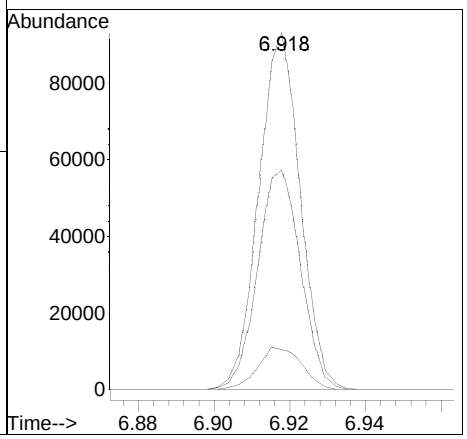


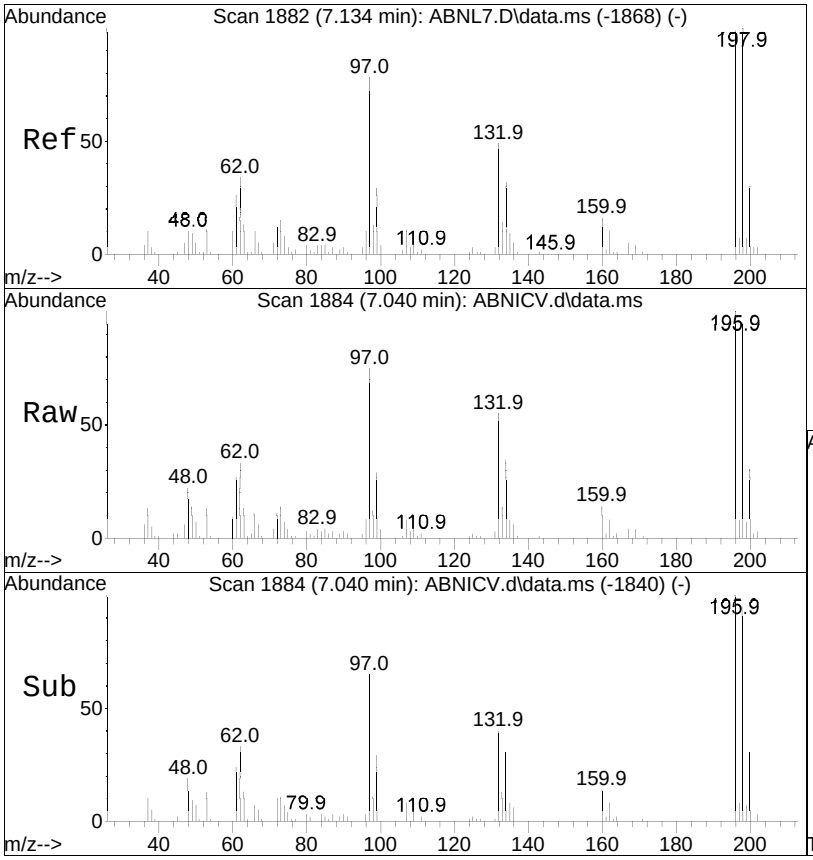


#42
Hexachlorocyclopentadiene
Concen: 47.72 ug/ml
RT: 6.918 min Scan# 1841
Delta R.T. -0.000 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion:237 Resp: 70430

Ion	Ratio	Lower	Upper
237	100		
235	63.9	47.8	71.6
272	12.5	10.4	15.6

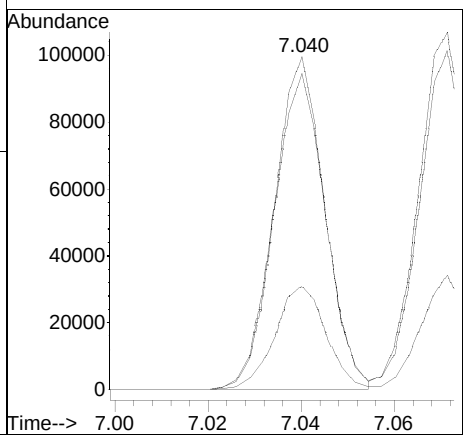


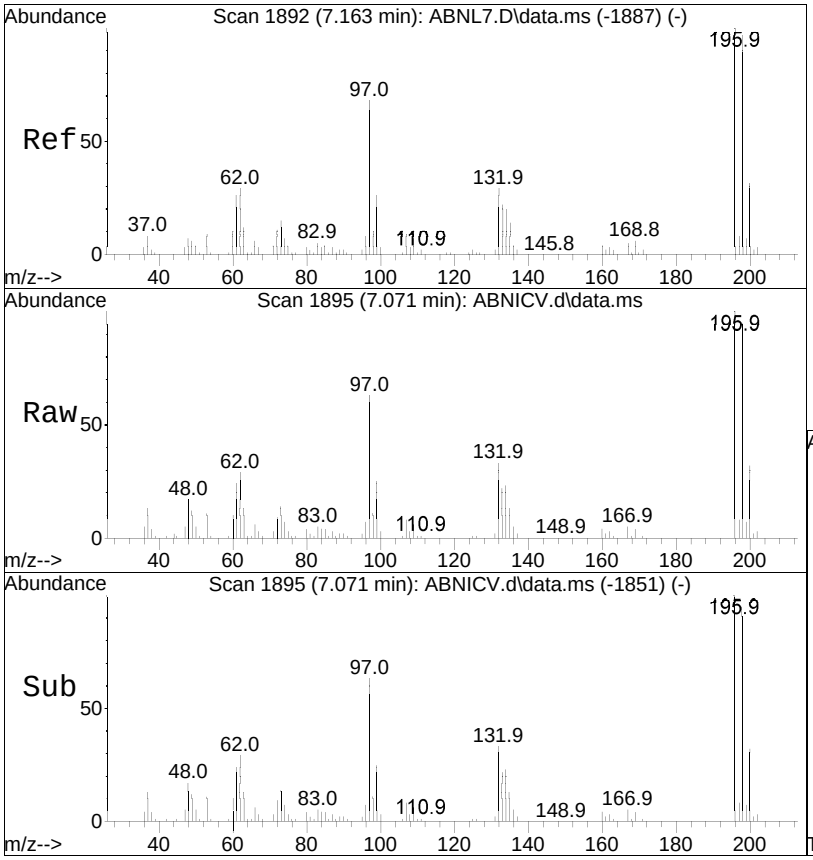


#43
2,4,6-Trichlorophenol
Concen: 46.94 ug/ml
RT: 7.040 min Scan# 1884
Delta R.T. 0.000 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion:196 Resp: 75065

Ion	Ratio	Lower	Upper
196	100		
198	96.0	81.5	122.3
200	31.3	26.2	39.2

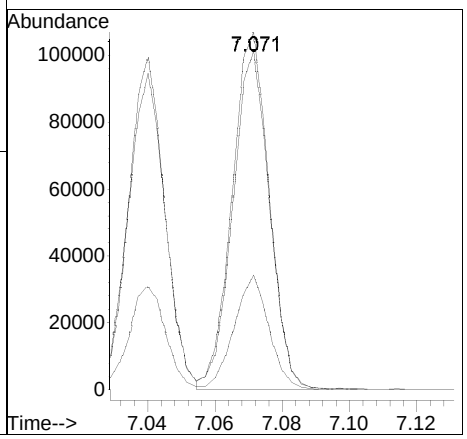


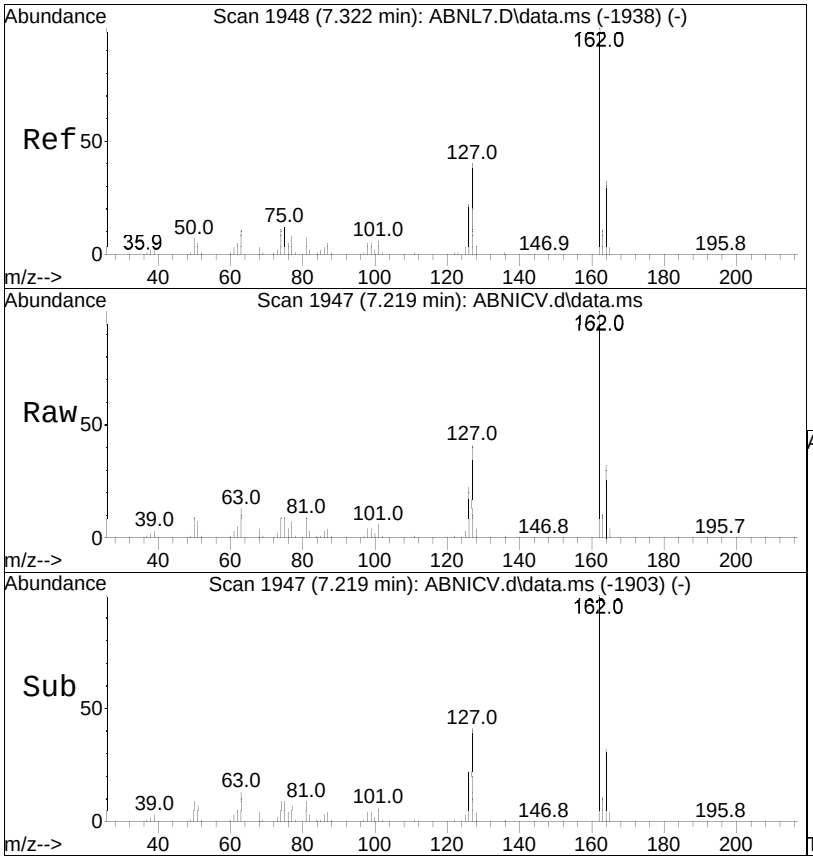


#44
2,4,5-Trichlorophenol
Concen: 48.60 ug/ml
RT: 7.071 min Scan# 1895
Delta R.T. 0.000 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion:196 Resp: 81808

Ion	Ratio	Lower	Upper
196	100		
200	30.1	25.5	38.3
198	93.4	79.2	118.8

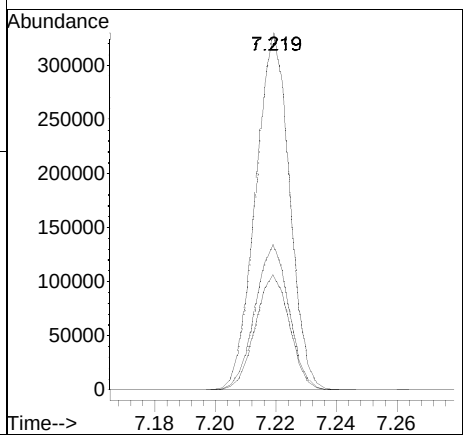


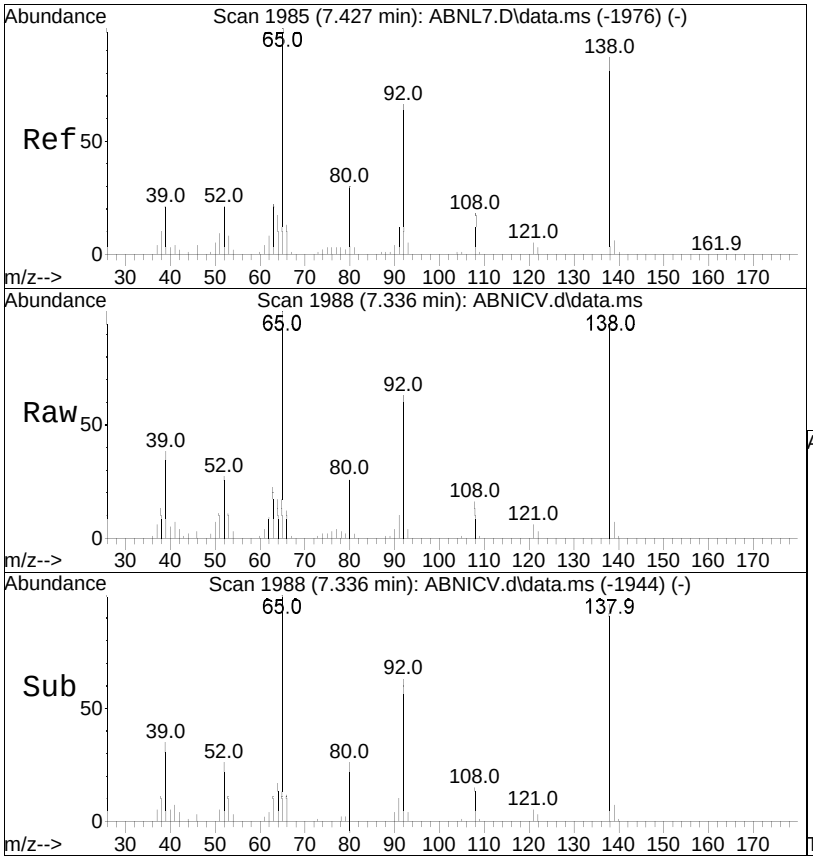


#46
2-Chloronaphthalene
Concen: 47.16 ug/ml
RT: 7.219 min Scan# 1947
Delta R.T. 0.000 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion:162 Resp: 255618

Ion	Ratio	Lower	Upper
162	100		
127	40.6	33.6	50.4
164	32.5	25.8	38.8

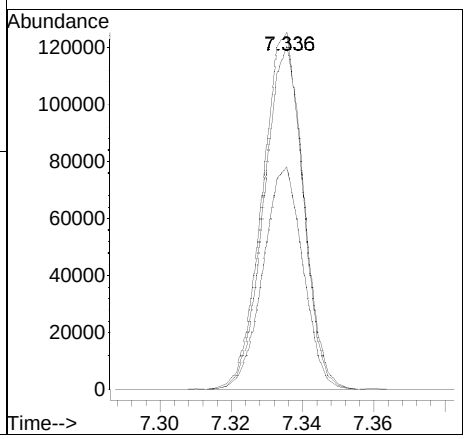


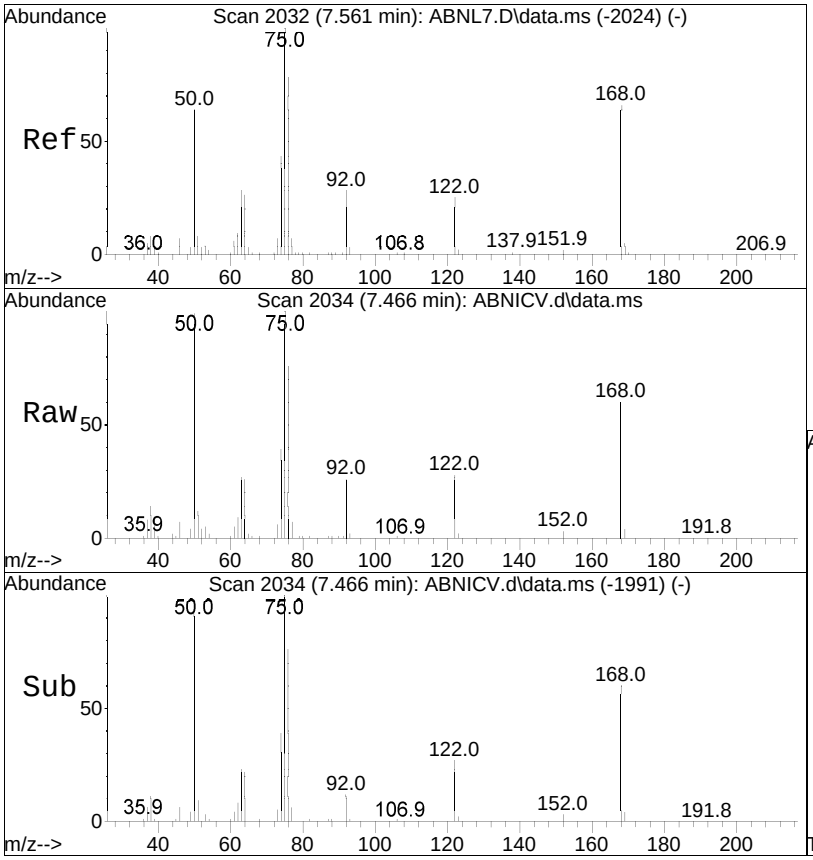


#47
2-Nitroaniline
Concen: 48.00 ug/ml
RT: 7.336 min Scan# 1988
Delta R.T. -0.000 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion:138 Resp: 93091

Ion	Ratio	Lower	Upper
138	100		
92	65.0	54.2	81.2
65	104.8	82.8	124.2

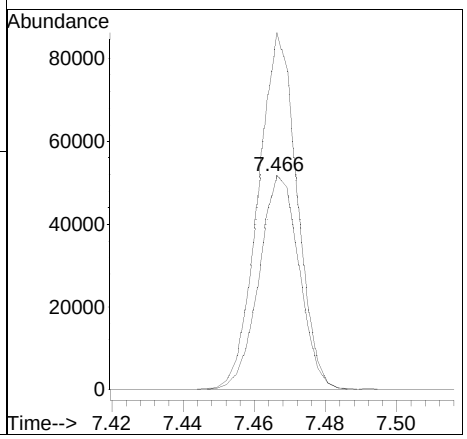


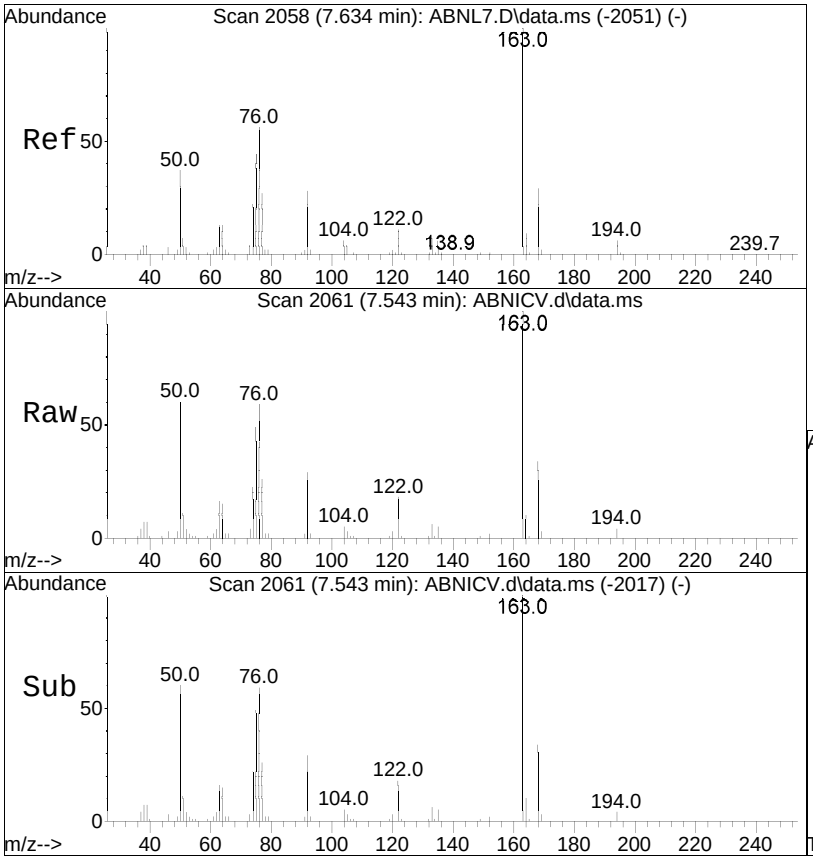


#48
1,4-Dinitrobenzene
Concen: 45.76 ug/ml
RT: 7.466 min Scan# 2034
Delta R.T. -0.003 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion:168 Resp: 40464

Ion	Ratio	Lower	Upper
168	100		
75	161.6	120.1	180.1

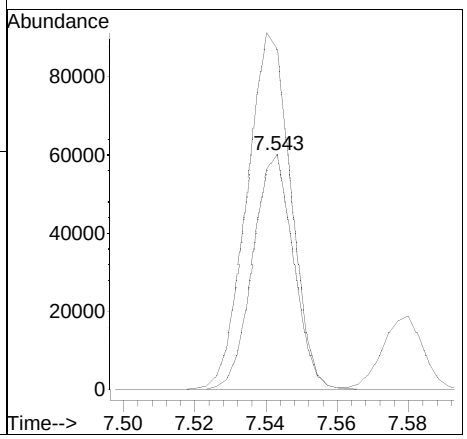


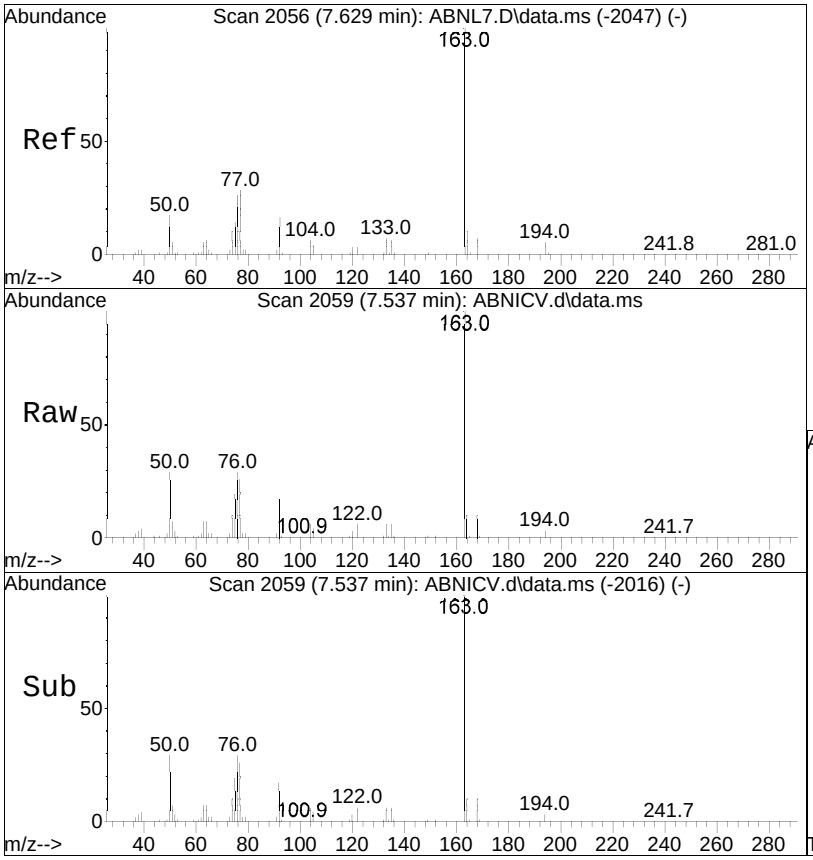


#49
1,3-Dinitrobenzene
Concen: 48.93 ug/ml
RT: 7.543 min Scan# 2061
Delta R.T. 0.000 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion:168 Resp: 47440

Ion	Ratio	Lower	Upper
168	100		
75	164.0	123.2	184.8

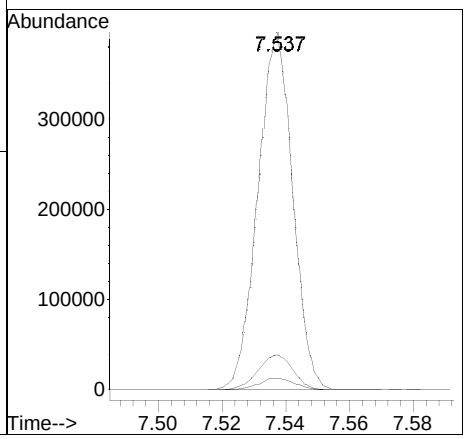


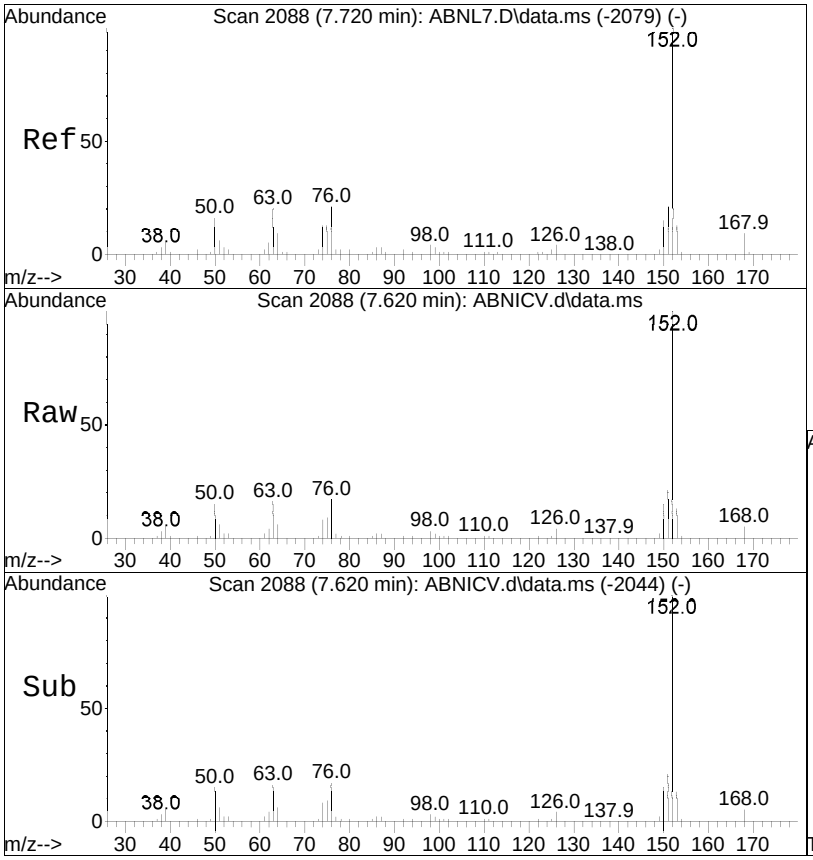


#50
Dimethyl phthalate
Concen: 48.58 ug/ml
RT: 7.537 min Scan# 2059
Delta R.T. -0.003 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion:163 Resp: 297929

Ion	Ratio	Lower	Upper
163	100		
194	3.4	2.6	4.0
164	9.9	8.2	12.4

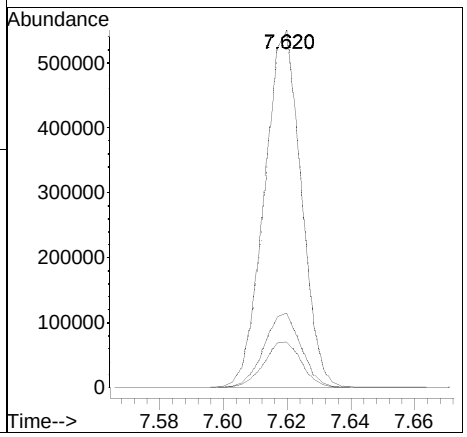


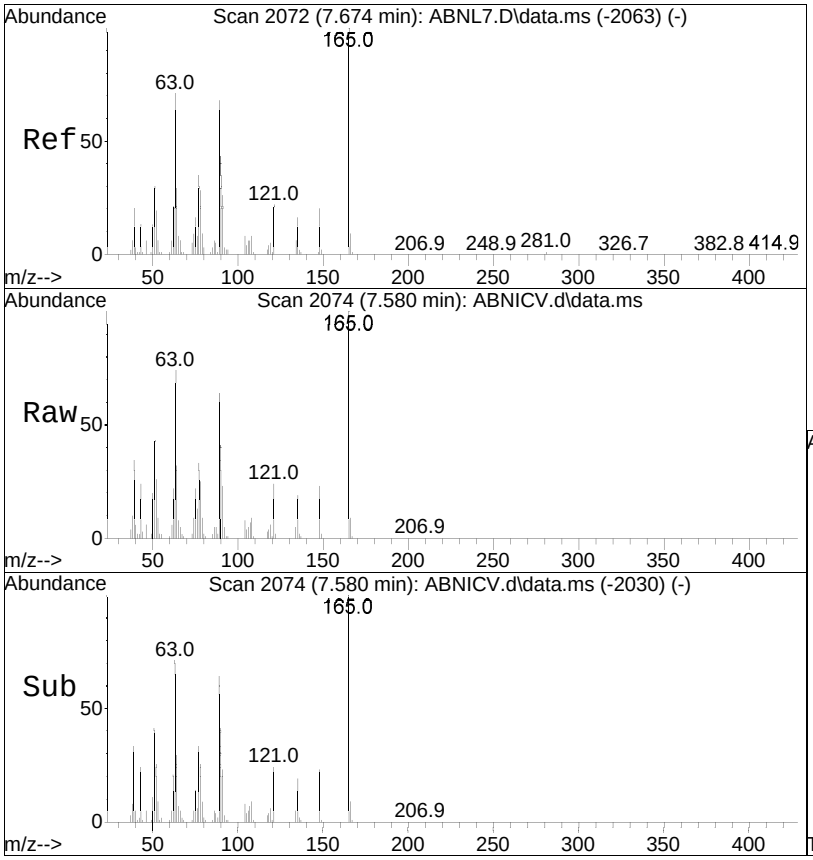


#51
Acenaphthylene
Concen: 49.09 ug/ml
RT: 7.620 min Scan# 2088
Delta R.T. -0.000 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion:152 Resp: 438512

Ion	Ratio	Lower	Upper
152	100		
151	21.0	16.4	24.6
153	13.2	11.0	16.6

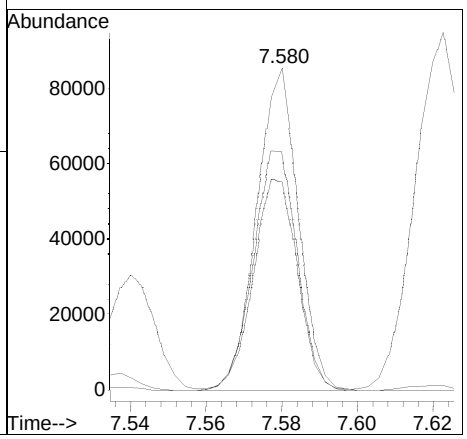


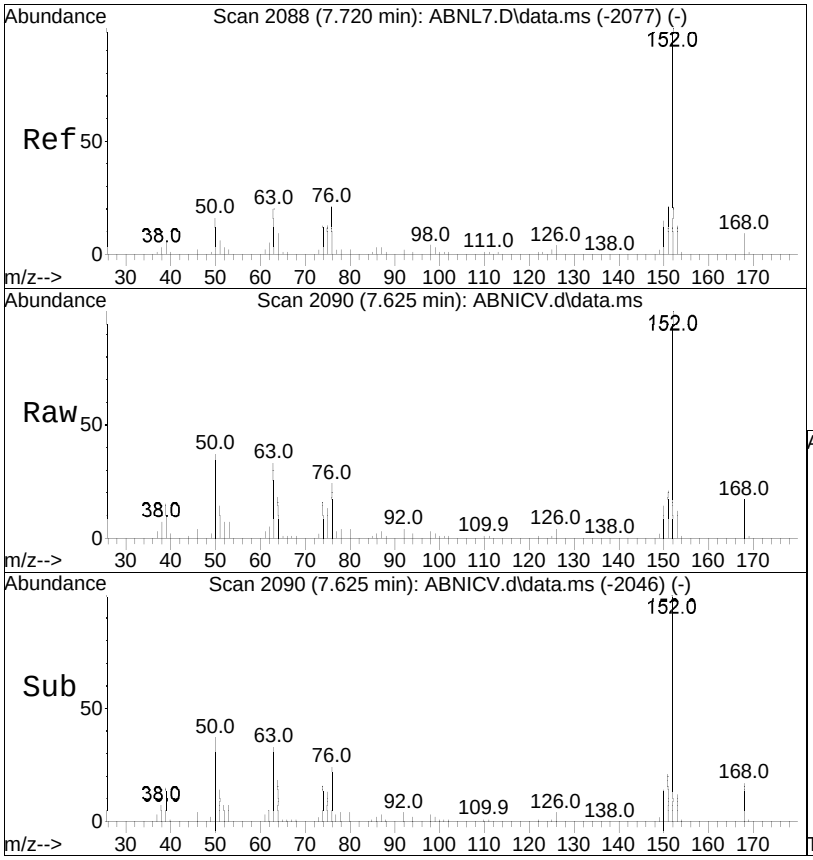


#52
2,6-Dinitrotoluene
Concen: 48.35 ug/ml
RT: 7.580 min Scan# 2074
Delta R.T. 0.000 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion:165 Resp: 65173

Ion	Ratio	Lower	Upper
165	100		
89	69.2	50.4	75.6
63	78.4	56.9	85.3

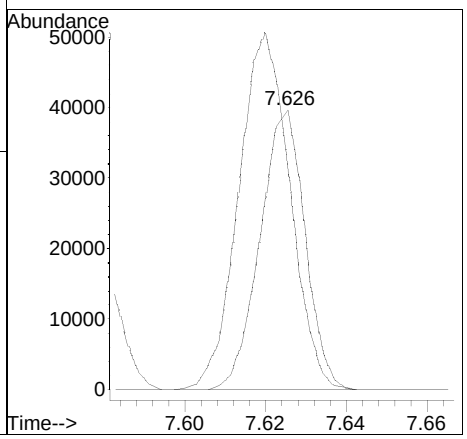


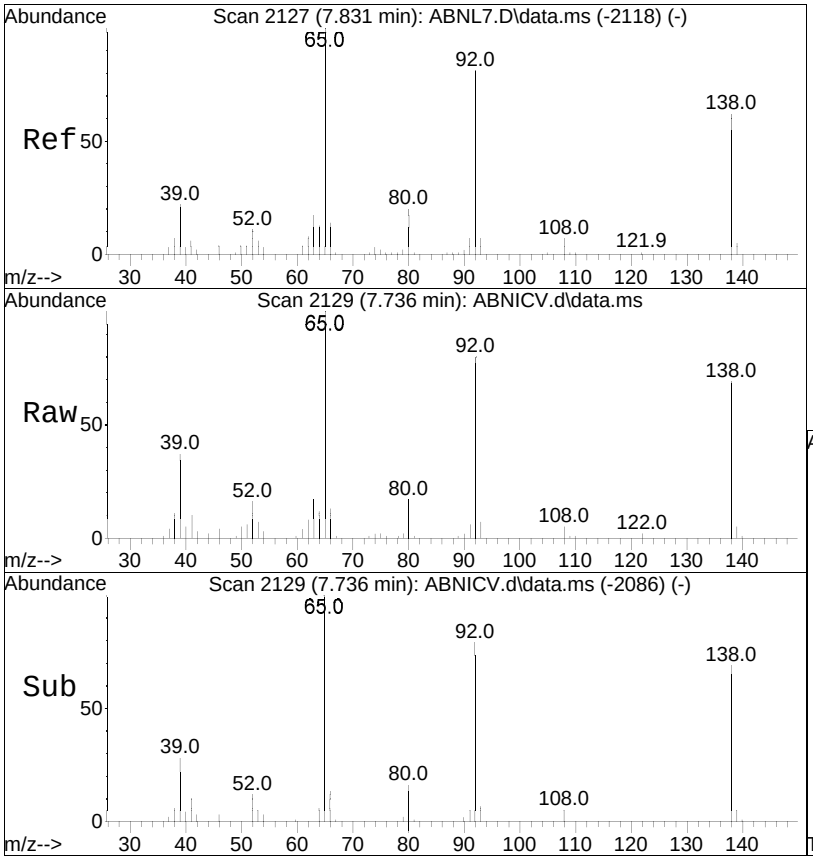


#53
1,2-Dinitrobenzene
Concen: 48.33 ug/ml
RT: 7.625 min Scan# 2090
Delta R.T. -0.001 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion:168 Resp: 30607

Ion	Ratio	Lower	Upper
168	100		
75	145.3	105.0	157.6

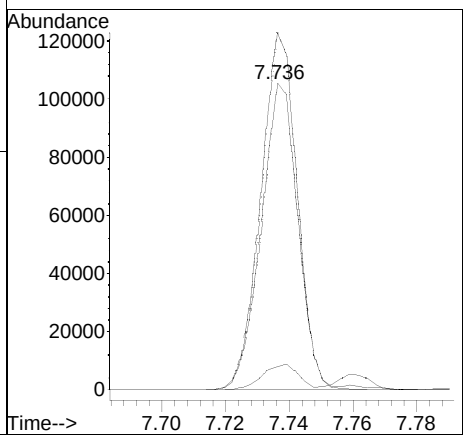


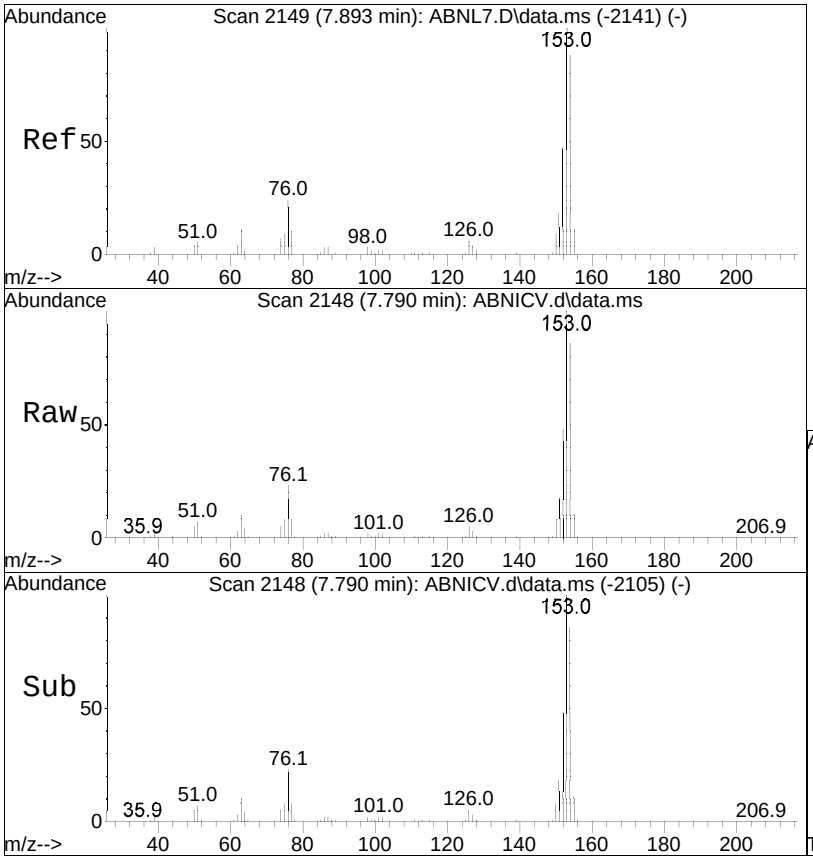


#63
3-Nitroaniline
Concen: 49.60 ug/ml
RT: 7.736 min Scan# 2129
Delta R.T. -0.003 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion:138 Resp: 83788

Ion	Ratio	Lower	Upper
138	100		
92	115.5	95.4	143.2
108	8.4	8.6	12.8#

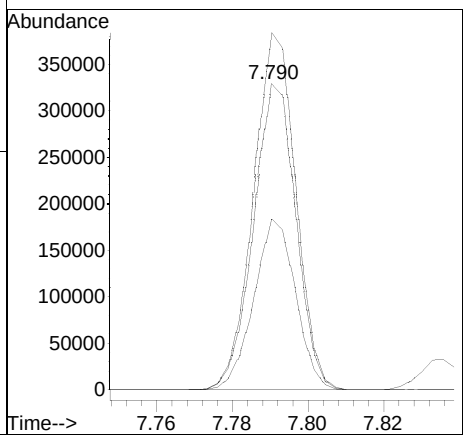


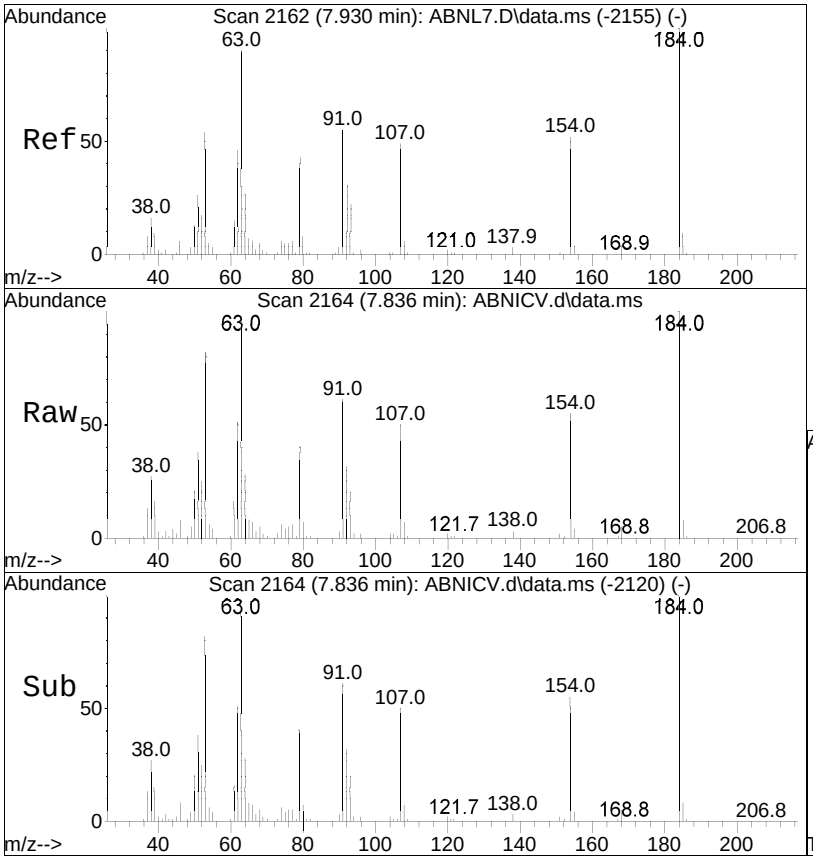


#64
Acenaphthene
Concen: 48.41 ug/ml
RT: 7.790 min Scan# 2148
Delta R.T. -0.003 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion:154 Resp: 256685

Ion	Ratio	Lower	Upper
154	100		
153	116.5	91.3	136.9
152	54.9	41.0	61.4

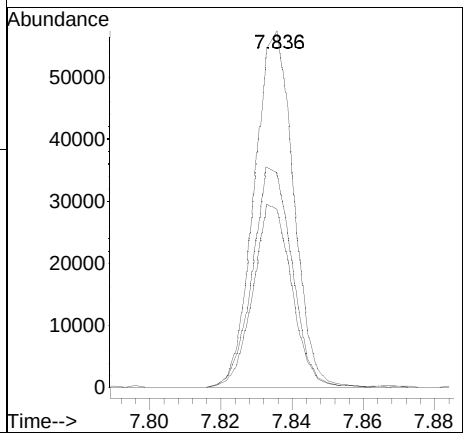


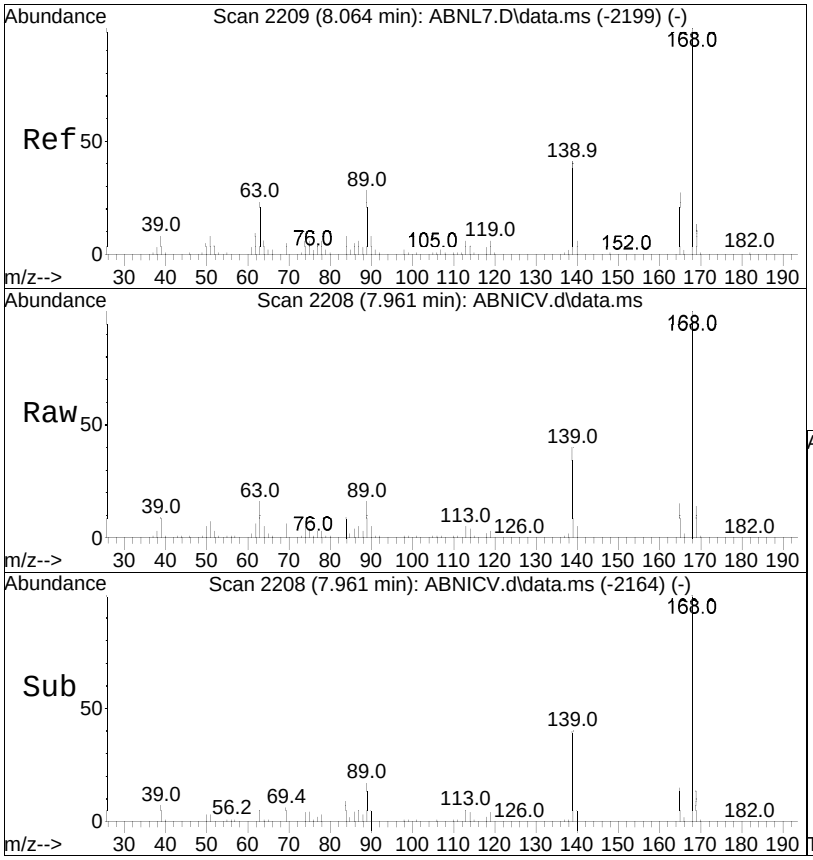


#65
2,4-Dinitrophenol
Concen: 46.78 ug/ml
RT: 7.836 min Scan# 2164
Delta R.T. -0.000 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion:184 Resp: 44072

Ion	Ratio	Lower	Upper
184	100		
107	50.7	41.8	62.6
91	62.2	46.1	69.1

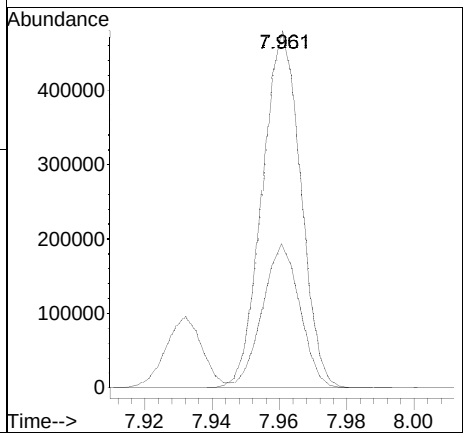


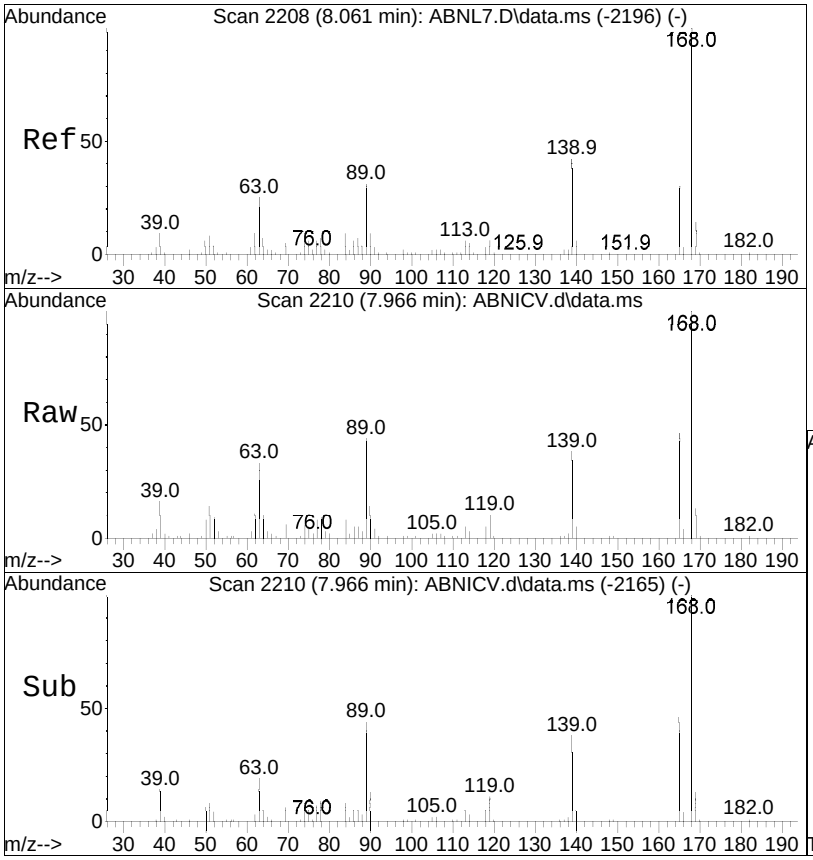


#66
Dibenzofuran
Concen: 48.92 ug/ml
RT: 7.961 min Scan# 2208
Delta R.T. -0.000 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion:168 Resp: 377963

Ion	Ratio	Lower	Upper
168	100		
139	39.5	33.2	49.8

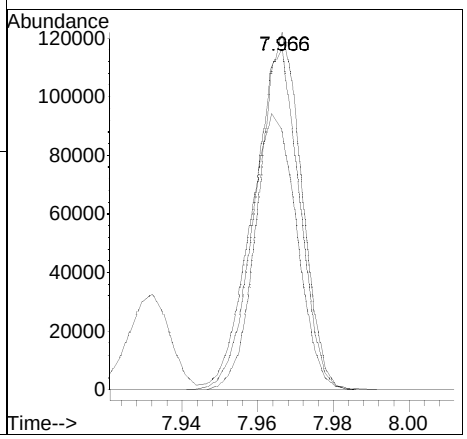


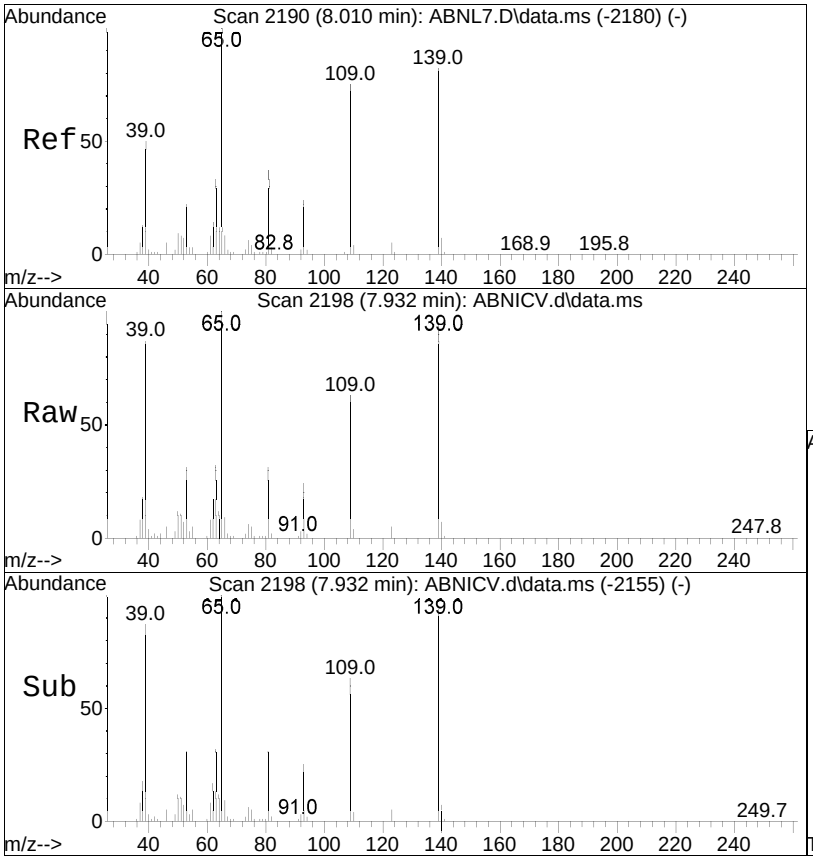


#67
2,4-Dinitrotoluene
Concen: 52.54 ug/ml
RT: 7.966 min Scan# 2210
Delta R.T. 0.002 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion:165 Resp: 94588

Ion	Ratio	Lower	Upper
165	100		
89	100.4	75.7	113.5
63	88.4	62.6	94.0

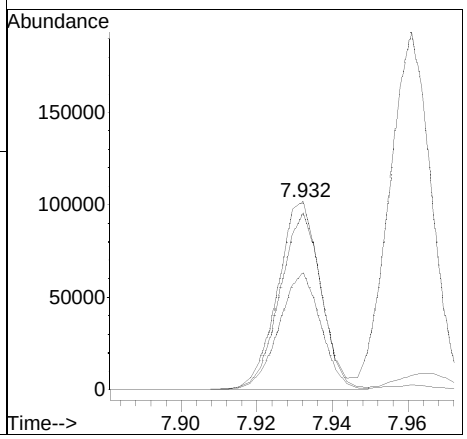


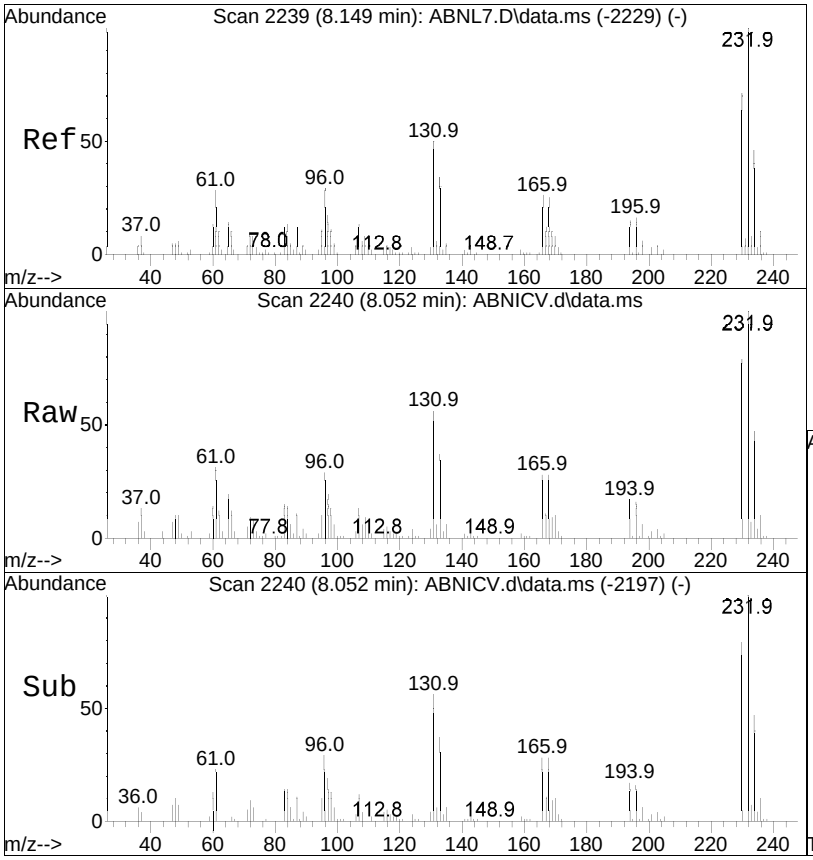


#68
4-Nitrophenol
Concen: 54.12 ug/ml
RT: 7.932 min Scan# 2198
Delta R.T. -0.003 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion: 65 Resp: 79542

Ion	Ratio	Lower	Upper
65	100		
109	61.1	55.4	83.2
139	91.3	72.9	109.3

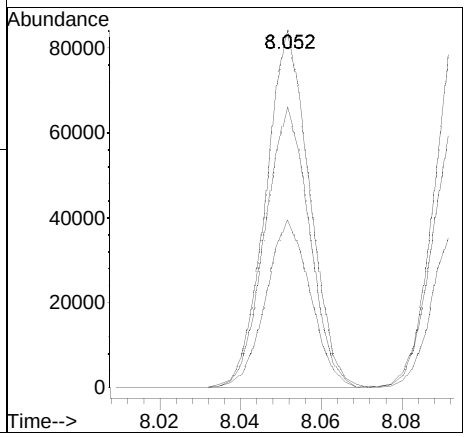


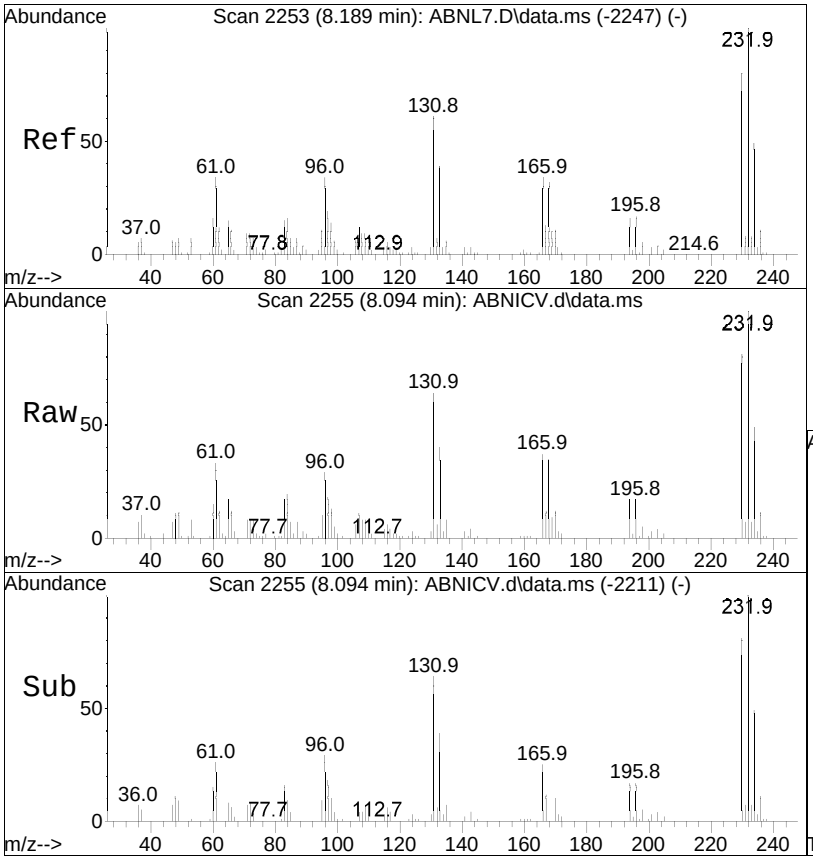


#69
2,3,5,6-Tetrachlorophenol
Concen: 47.75 ug/ml
RT: 8.052 min Scan# 2240
Delta R.T. -0.003 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion:232 Resp: 63696

Ion	Ratio	Lower	Upper
232	100		
230	79.6	65.0	97.6
234	47.5	37.8	56.8

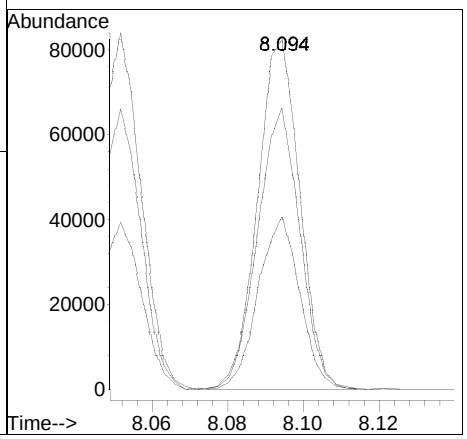


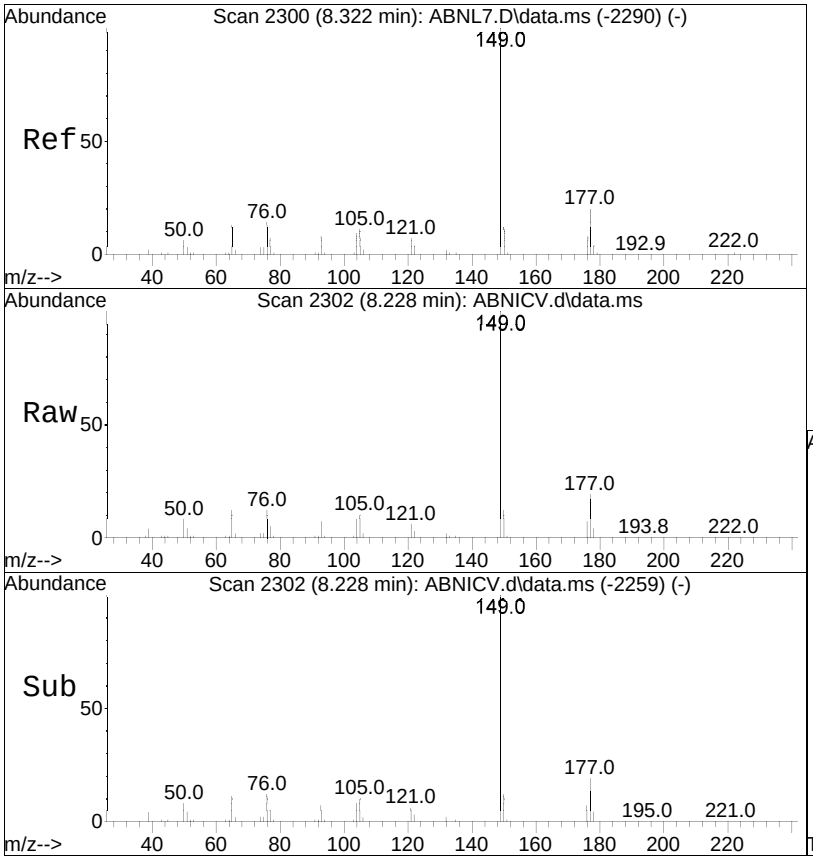


#70
2,3,4,6-Tetrachlorophenol
Concen: 47.55 ug/ml
RT: 8.094 min Scan# 2255
Delta R.T. 0.000 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion:232 Resp: 64134

Ion	Ratio	Lower	Upper
232	100		
230	80.4	63.7	95.5
234	48.7	38.4	57.6

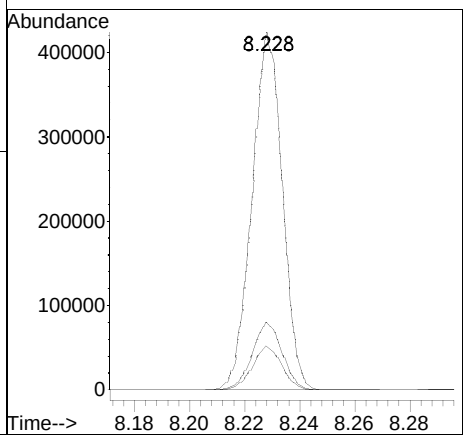


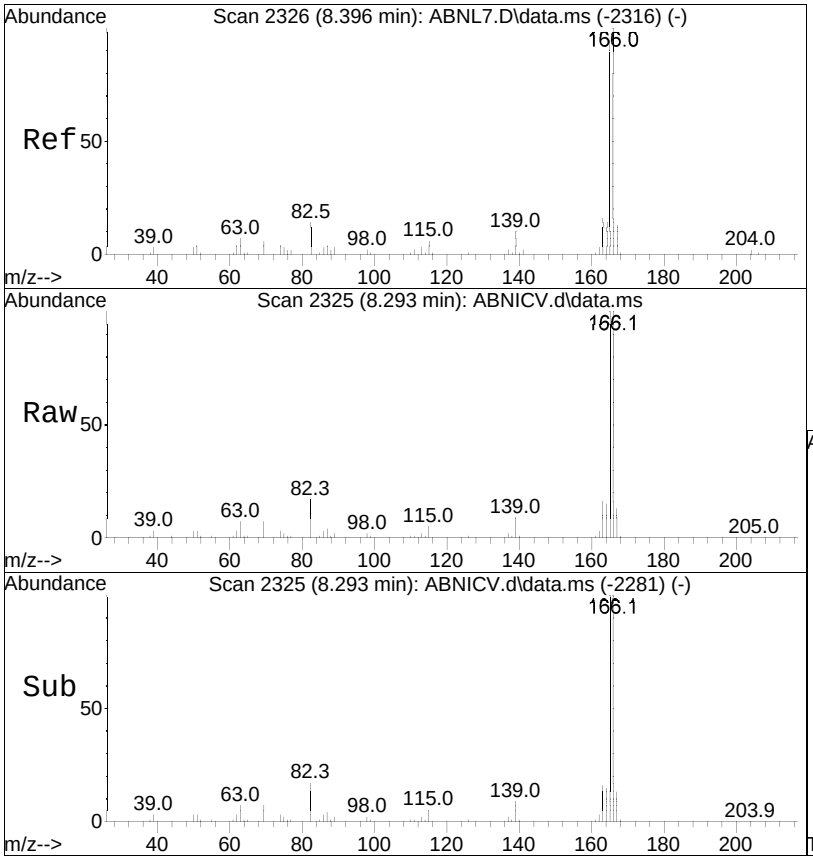


#71
Diethyl phthalate
Concen: 48.60 ug/ml
RT: 8.228 min Scan# 2302
Delta R.T. -0.003 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion:149 Resp: 320610

Ion	Ratio	Lower	Upper
149	100		
177	18.7	15.5	23.3
150	12.0	9.5	14.3

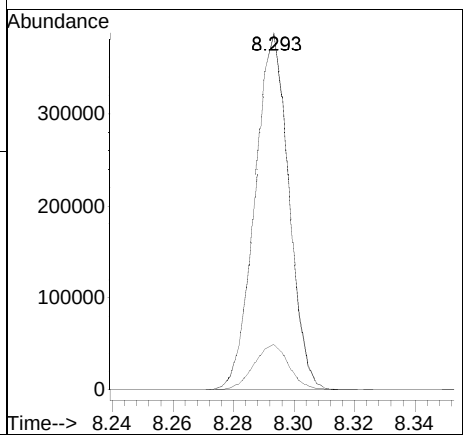


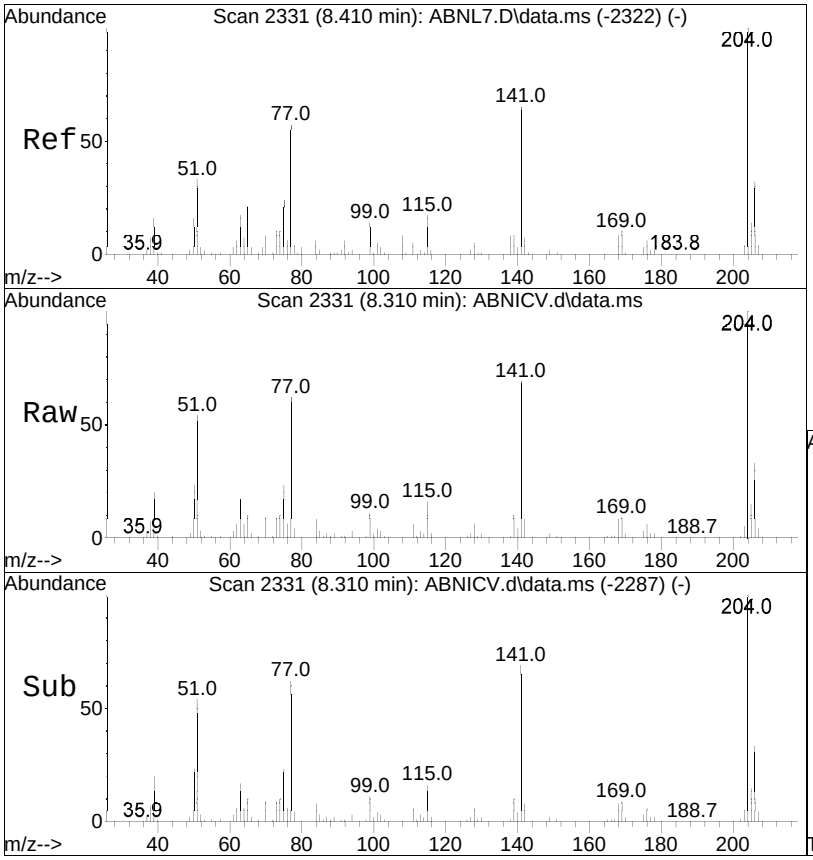


#72
Fluorene
Concen: 48.67 ug/ml
RT: 8.293 min Scan# 2325
Delta R.T. 0.000 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion:166 Resp: 302364

Ion	Ratio	Lower	Upper
166	100		
165	100.0	79.3	118.9
167	13.2	10.6	16.0

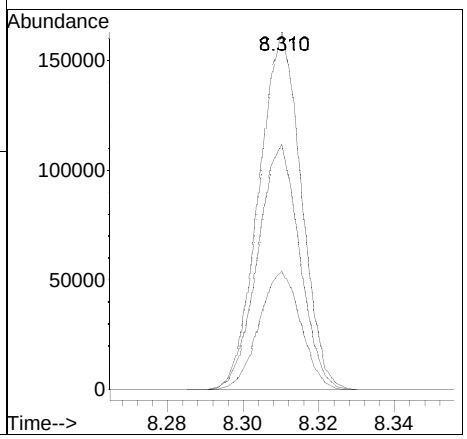


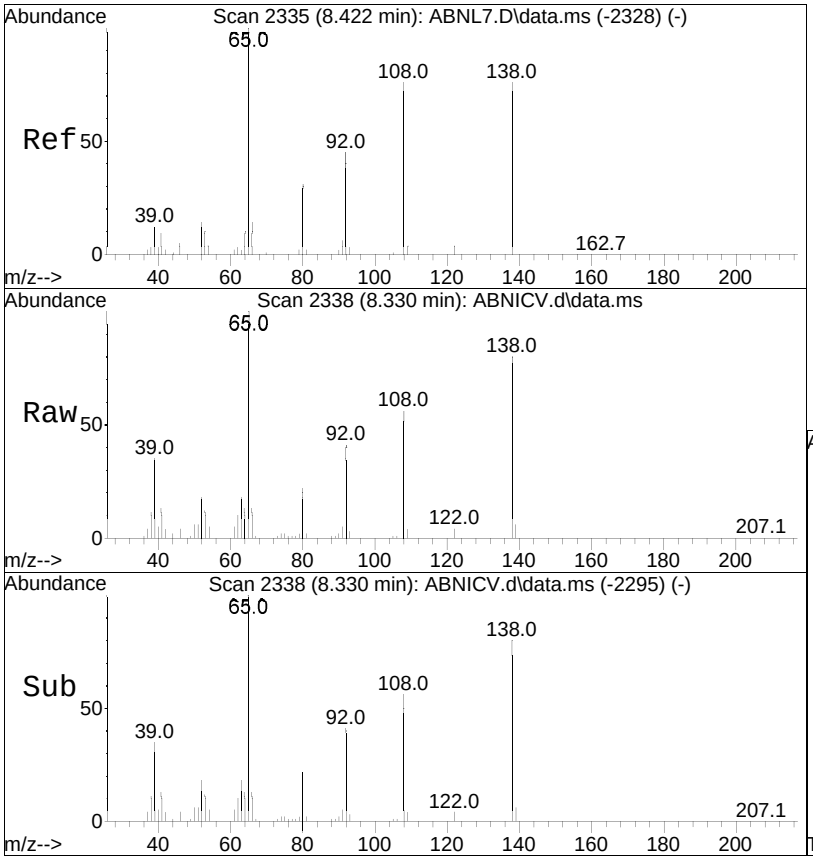


#73
4-Chlorophenyl phenyl ether
Concen: 47.08 ug/ml
RT: 8.310 min Scan# 2331
Delta R.T. 0.000 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion:204 Resp: 126384

Ion	Ratio	Lower	Upper
204	100		
206	32.7	26.2	39.4
141	68.1	57.2	85.8

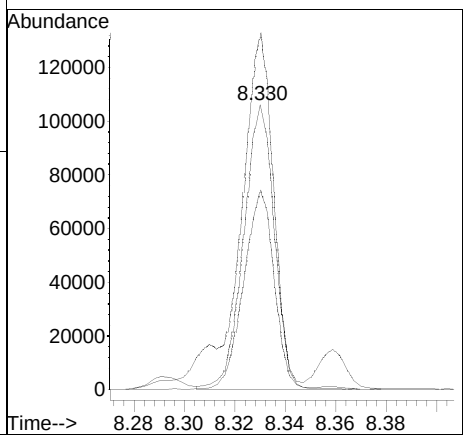


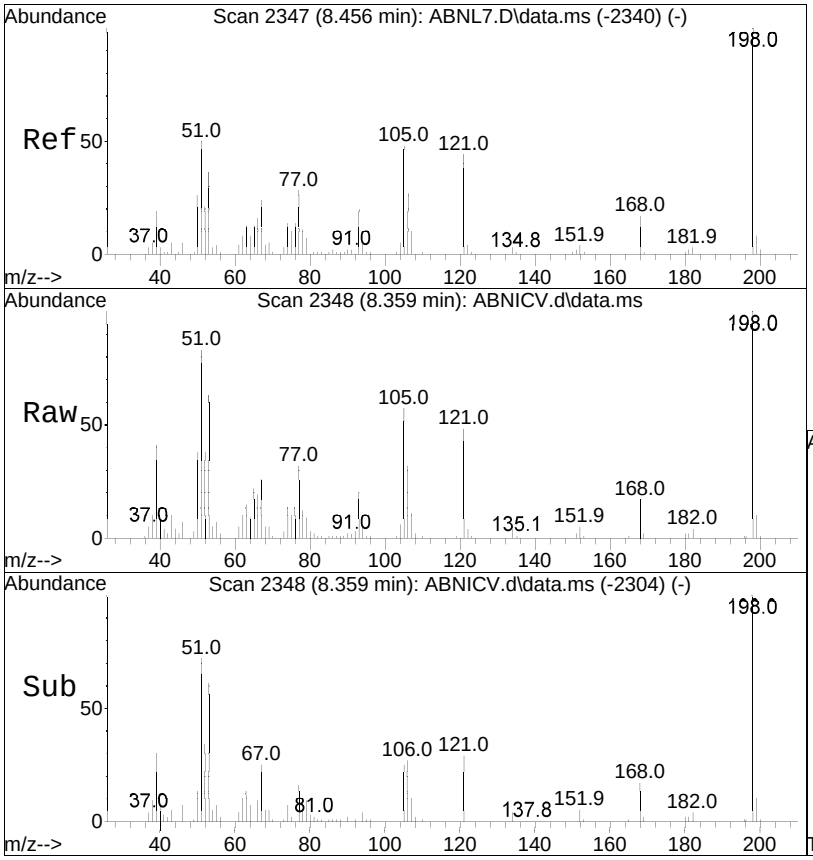


#74
4-Nitroaniline
Concen: 53.44 ug/ml
RT: 8.330 min Scan# 2338
Delta R.T. -0.003 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion:138 Resp: 89055

Ion	Ratio	Lower	Upper
138	100		
108	69.5	62.7	94.1
65	140.6	107.8	161.6

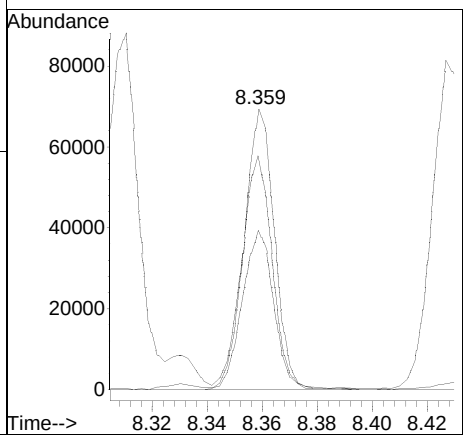


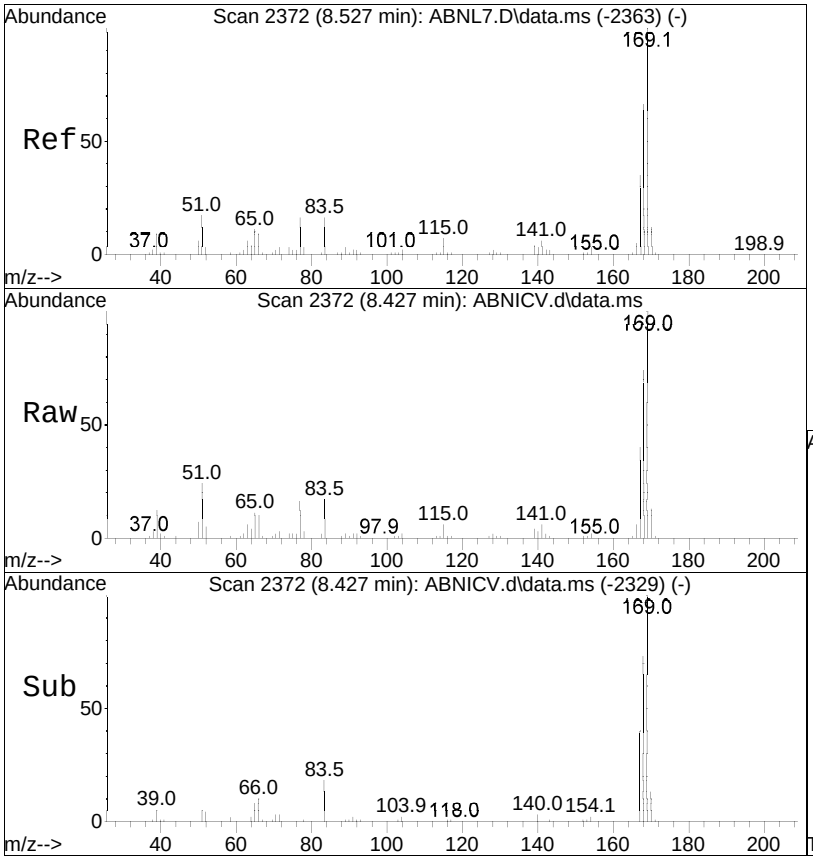


#75
4,6-Dinitro-o-cresol
Concen: 49.18 ug/ml
RT: 8.359 min Scan# 2348
Delta R.T. -0.000 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion:198 Resp: 53012

Ion	Ratio	Lower	Upper
198	100		
51	83.4	59.0	88.4
105	58.8	45.0	67.6

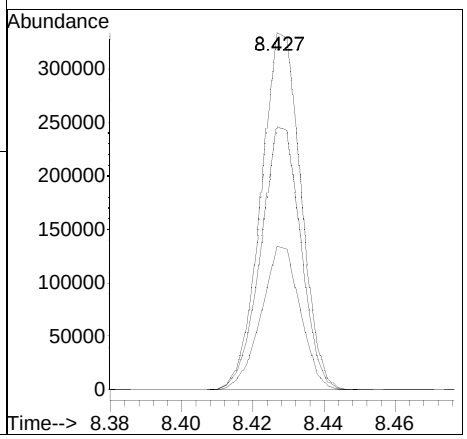


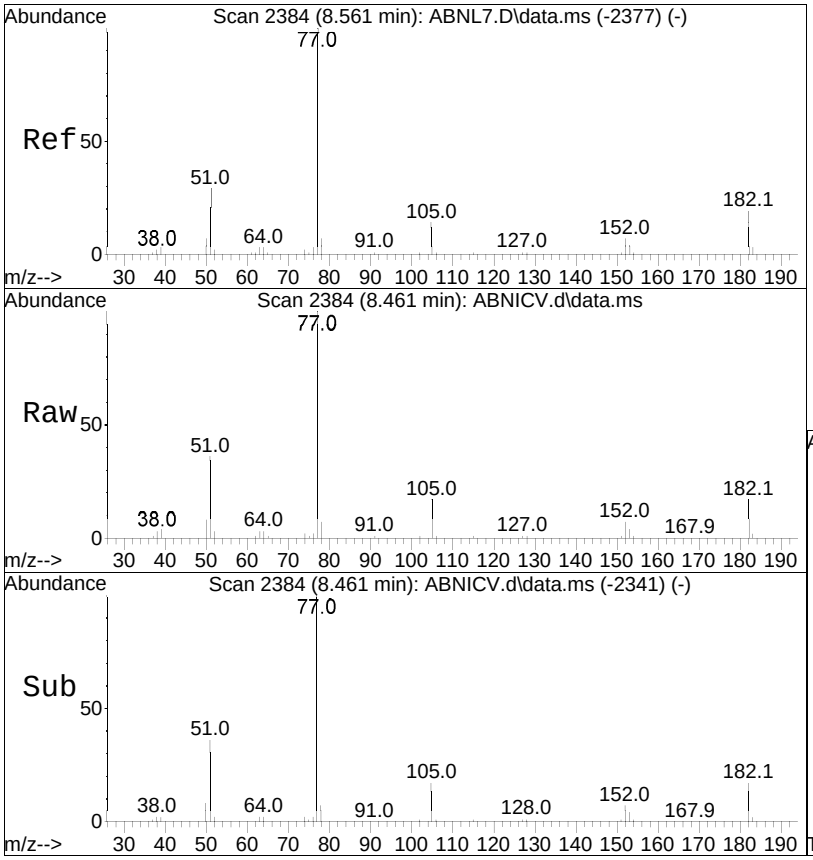


#76
NDPA/DPA
Concen: 49.52 ug/ml
RT: 8.427 min Scan# 2372
Delta R.T. -0.003 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion:169 Resp: 259771

Ion	Ratio	Lower	Upper
169	100		
168	73.7	55.4	83.0
167	39.6	30.3	45.5

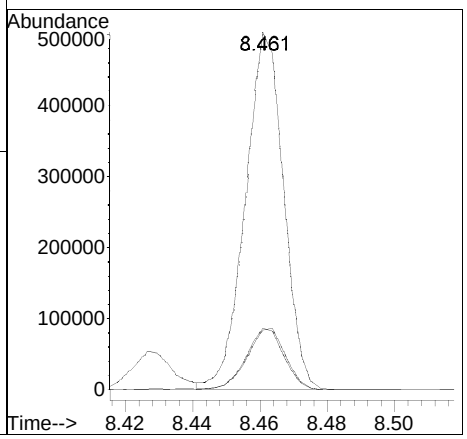


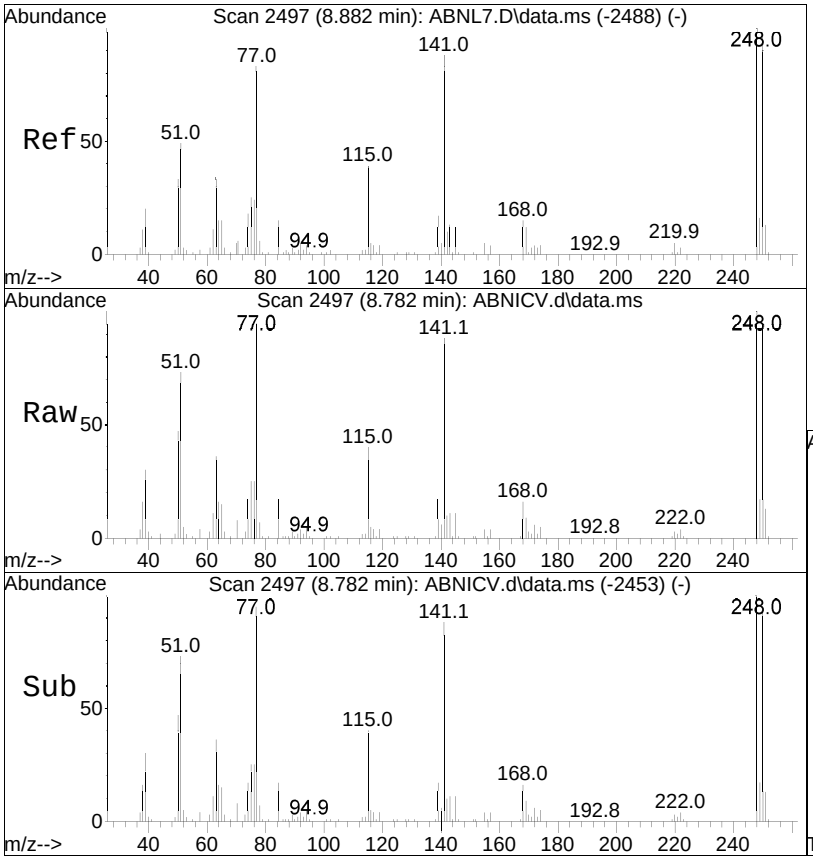


#77
Azobenzene
Concen: 55.82 ug/ml
RT: 8.461 min Scan# 2384
Delta R.T. -0.003 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion: 77 Resp: 392434

Ion	Ratio	Lower	Upper
77	100		
182	17.8	16.0	24.0
105	17.3	15.6	23.4

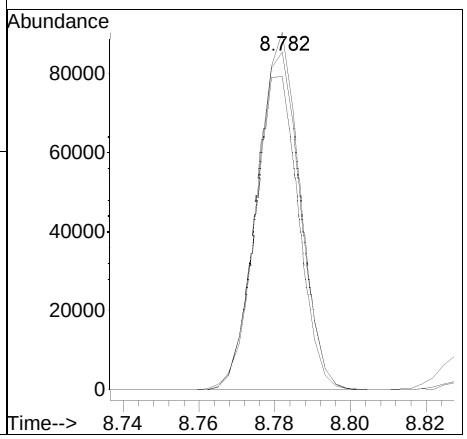


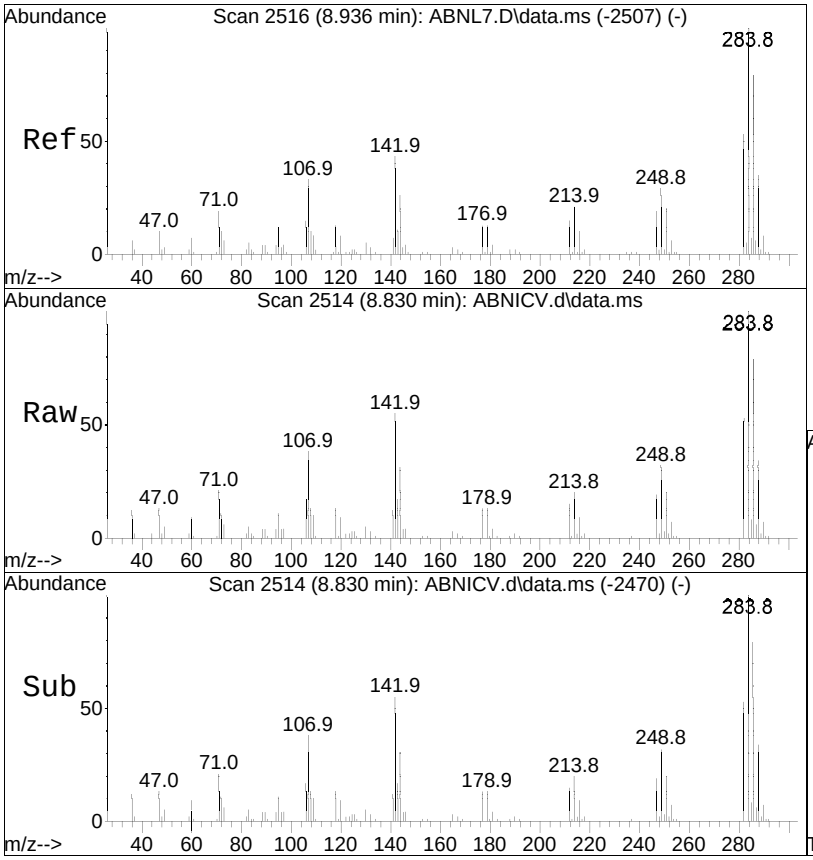


#79
4-Bromophenyl phenyl ether
Concen: 48.91 ug/ml
RT: 8.782 min Scan# 2497
Delta R.T. -0.000 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion:248 Resp: 70635

Ion	Ratio	Lower	Upper
248	100		
141	89.7	76.8	115.2
250	96.4	79.7	119.5

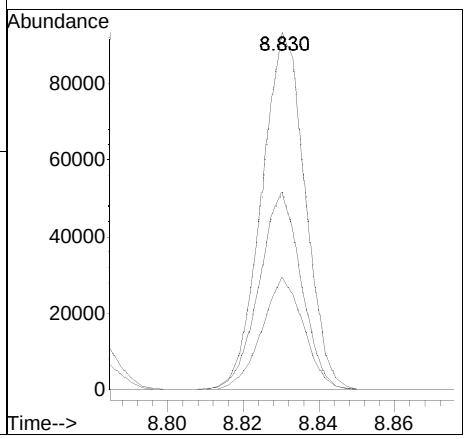


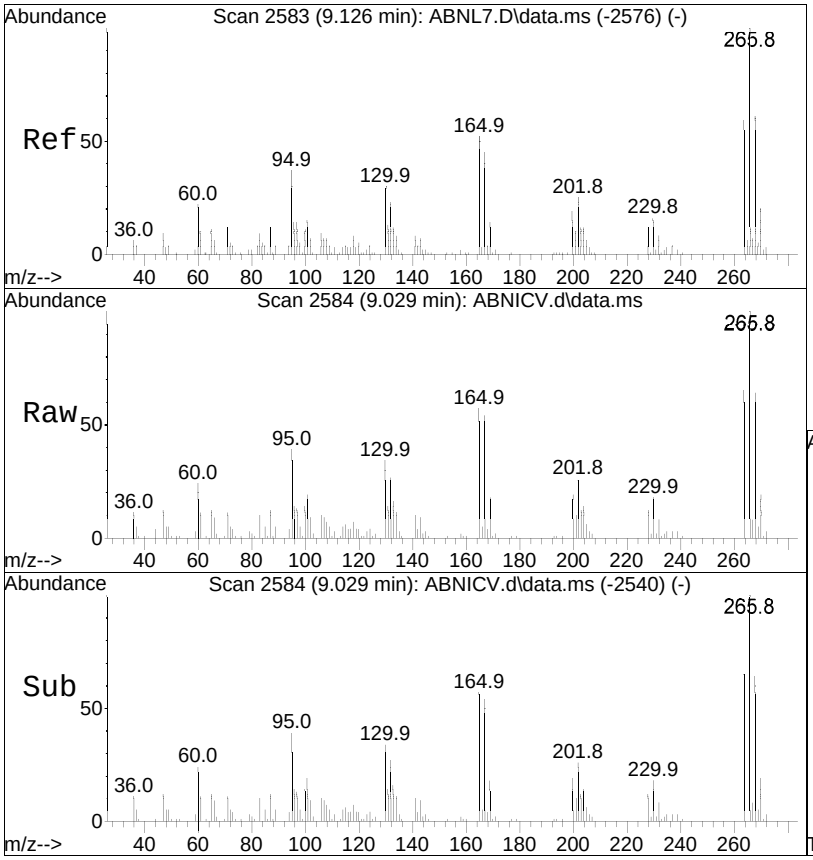


#80
Hexachlorobenzene
Concen: 47.52 ug/ml
RT: 8.830 min Scan# 2514
Delta R.T. 0.000 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion:284 Resp: 74244

Ion	Ratio	Lower	Upper
284	100		
142	53.8	35.8	53.6#
249	30.5	24.7	37.1

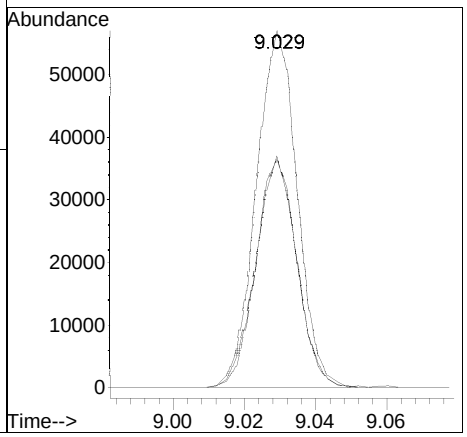


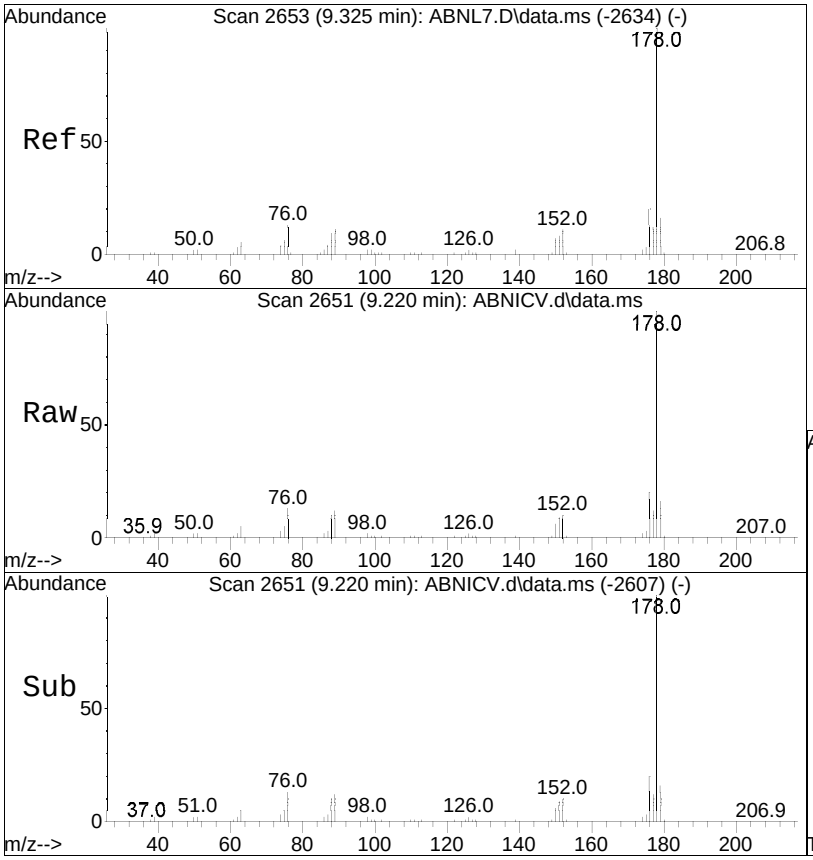


#81
Pentachlorophenol
Concen: 45.79 ug/ml
RT: 9.029 min Scan# 2584
Delta R.T. 0.000 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion:266 Resp: 45297

Ion	Ratio	Lower	Upper
266	100		
264	64.8	51.8	77.6
268	64.1	49.8	74.8

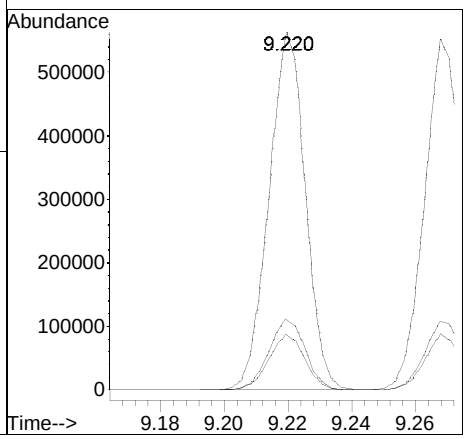


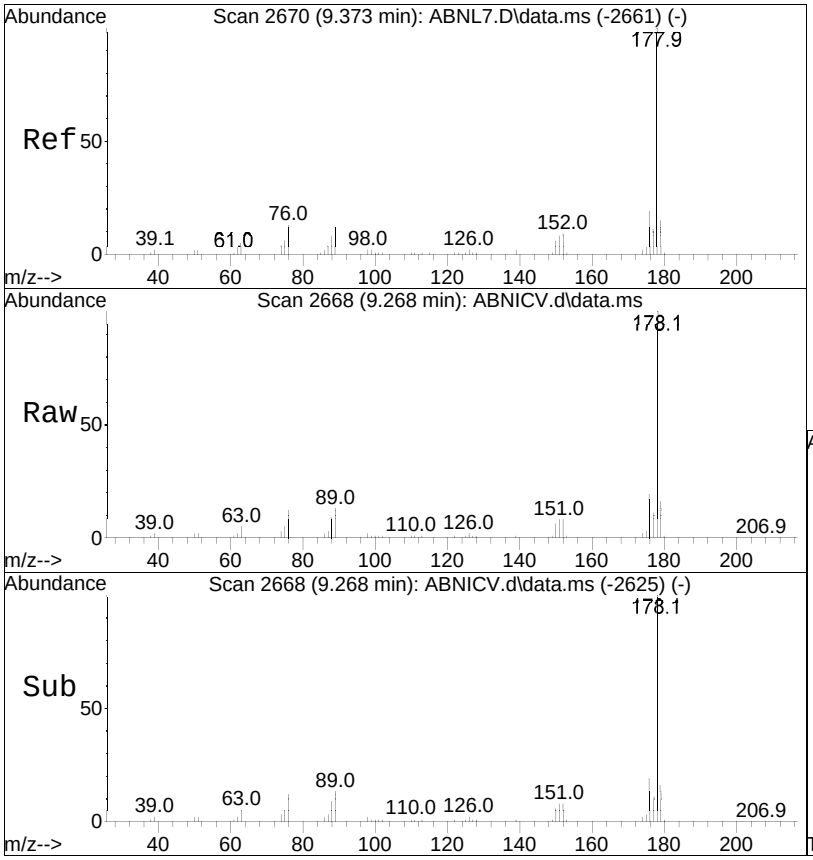


#88
Phenanthrene
Concen: 48.23 ug/ml
RT: 9.220 min Scan# 2651
Delta R.T. -0.000 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion:178 Resp: 447072

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.2	18.2
176	19.7	15.4	23.2

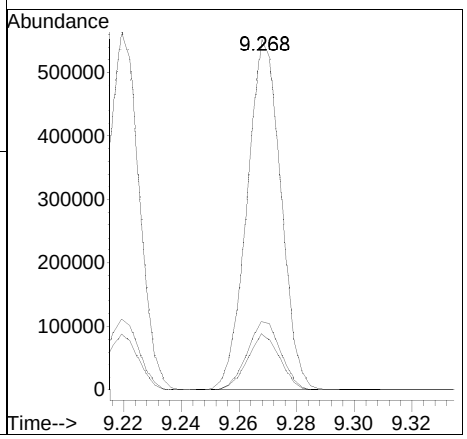


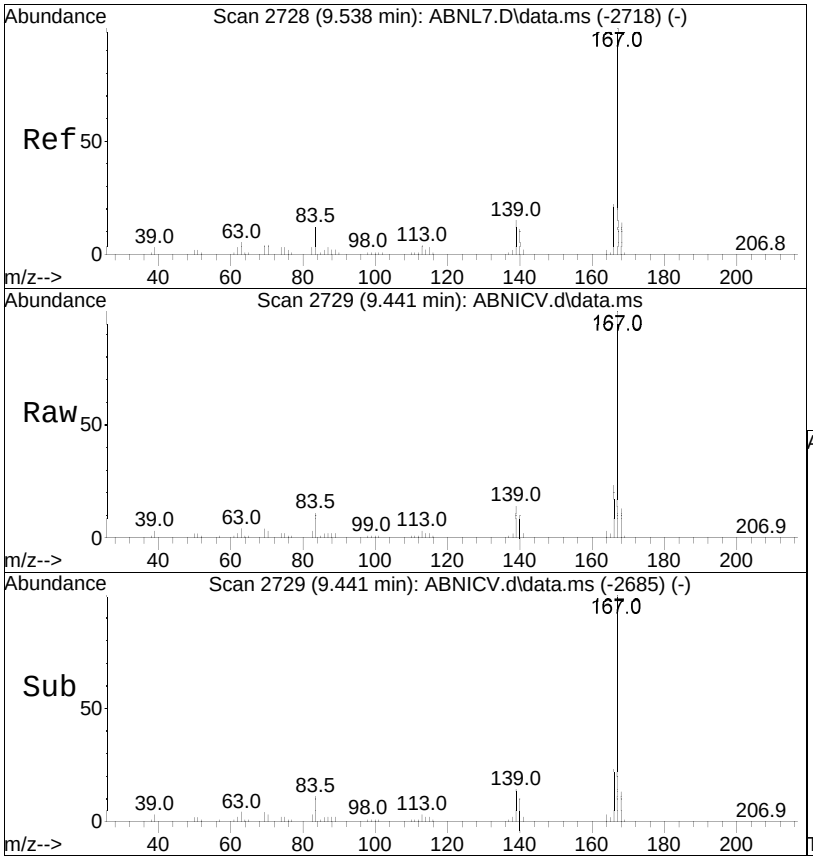


#89
Anthracene
Concen: 48.83 ug/ml
RT: 9.268 min Scan# 2668
Delta R.T. -0.003 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion:178 Resp: 450286

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.1	18.1
176	19.6	14.8	22.2

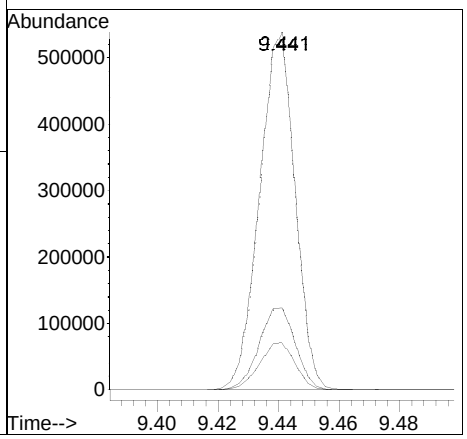


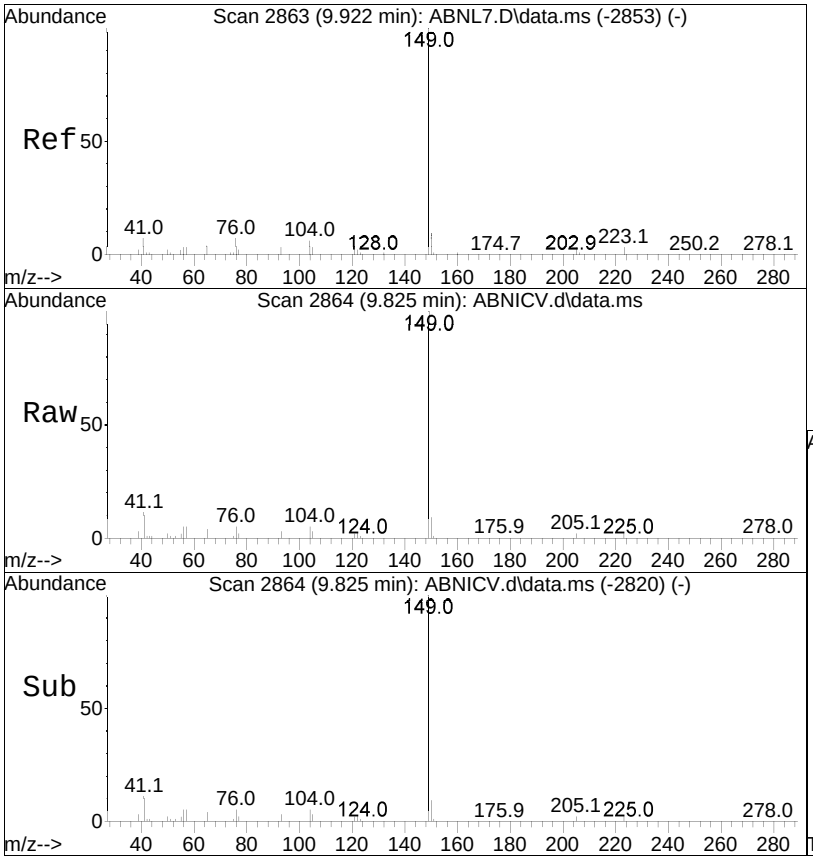


#90
Carbazole
Concen: 50.90 ug/ml
RT: 9.441 min Scan# 2729
Delta R.T. 0.000 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion:167 Resp: 435153

Ion	Ratio	Lower	Upper
167	100		
168	13.4	10.6	15.8
166	23.7	17.7	26.5

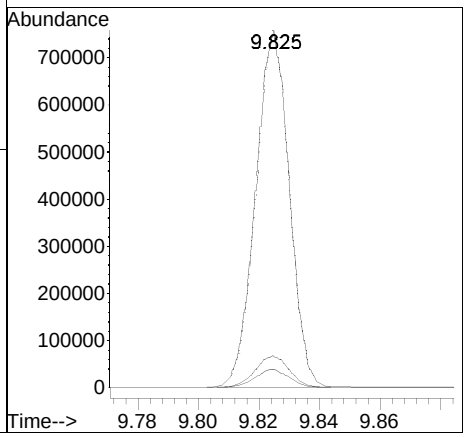


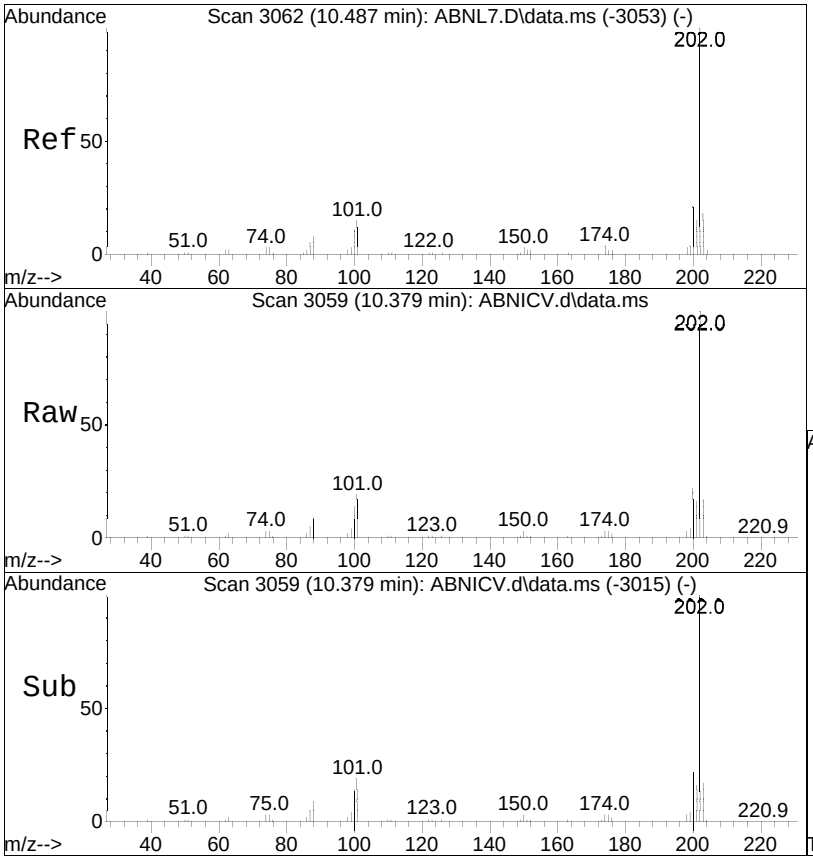


#91
Di-n-butylphthalate
Concen: 52.72 ug/ml
RT: 9.825 min Scan# 2864
Delta R.T. -0.000 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion:149 Resp: 576823

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.4	11.0
104	5.1	4.2	6.2

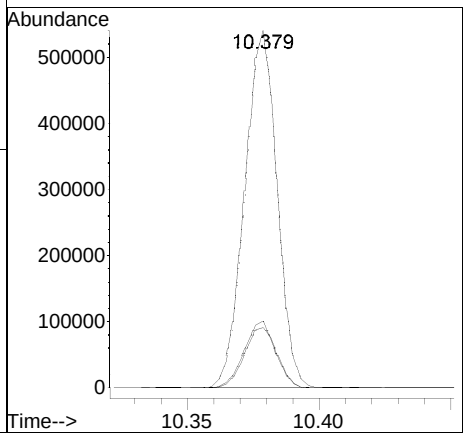


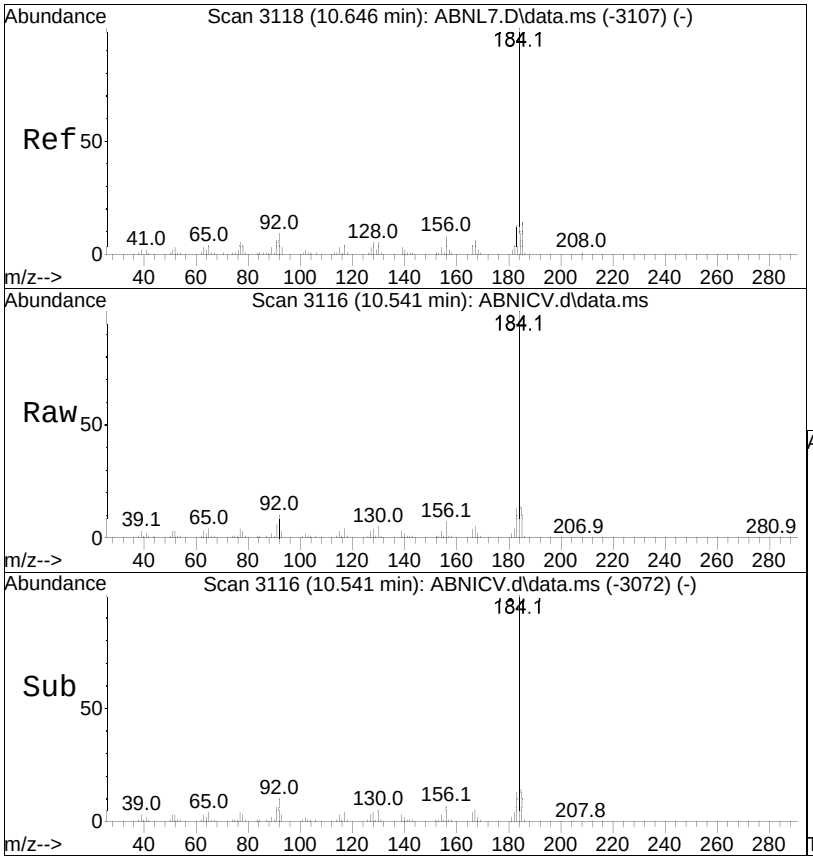


#92
Fluoranthene
Concen: 50.37 ug/ml
RT: 10.379 min Scan# 3059
Delta R.T. -0.000 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion:202 Resp: 457227

Ion	Ratio	Lower	Upper
202	100		
101	18.2	11.4	17.0#
203	17.2	13.9	20.9

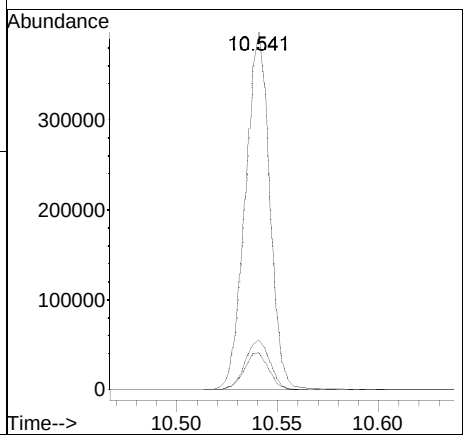


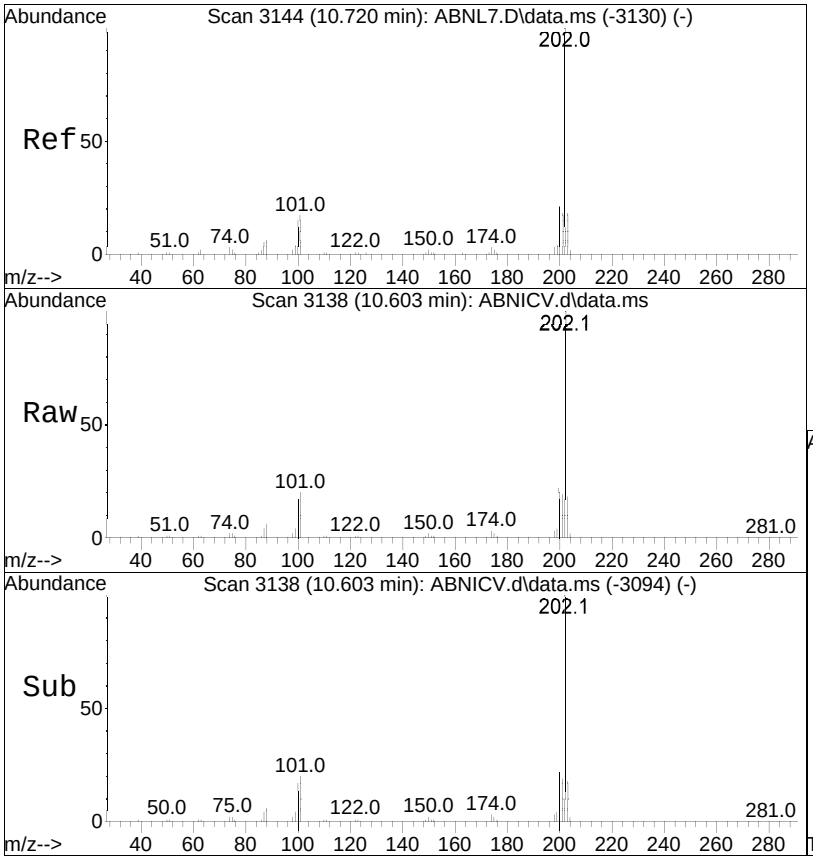


#93
Benzidine
Concen: 53.07 ug/ml
RT: 10.541 min Scan# 3116
Delta R.T. -0.000 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion:184 Resp: 330356

Ion	Ratio	Lower	Upper
184	100		
92	10.6	7.6	11.4
185	14.3	11.5	17.3

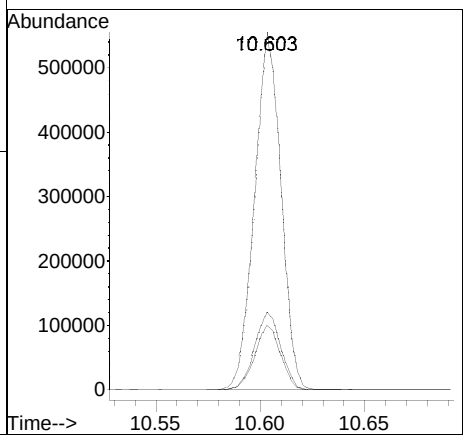


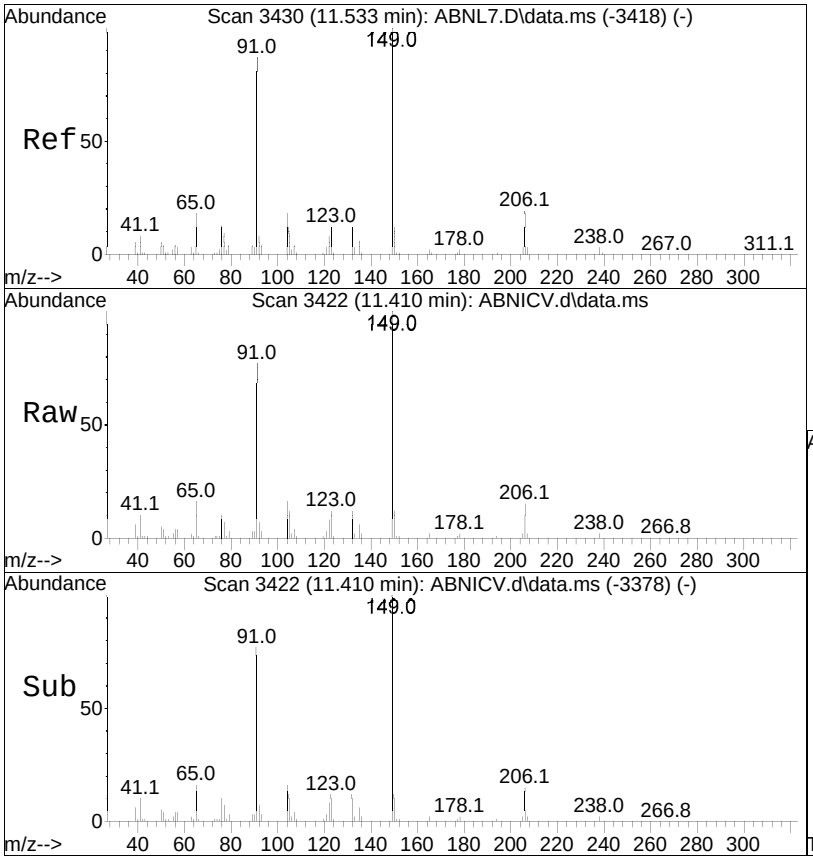


#94
Pyrene
Concen: 51.25 ug/ml
RT: 10.603 min Scan# 3138
Delta R.T. 0.000 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion:202 Resp: 482265

Ion	Ratio	Lower	Upper
202	100		
200	21.8	17.0	25.4
203	17.9	14.2	21.2

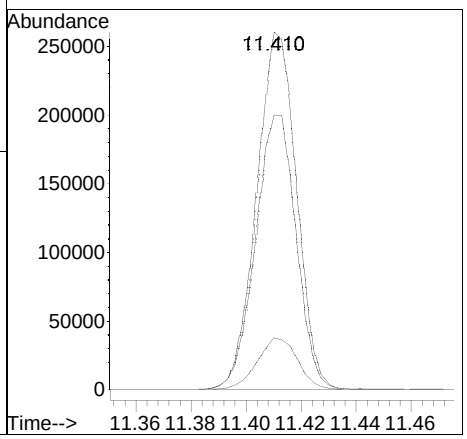


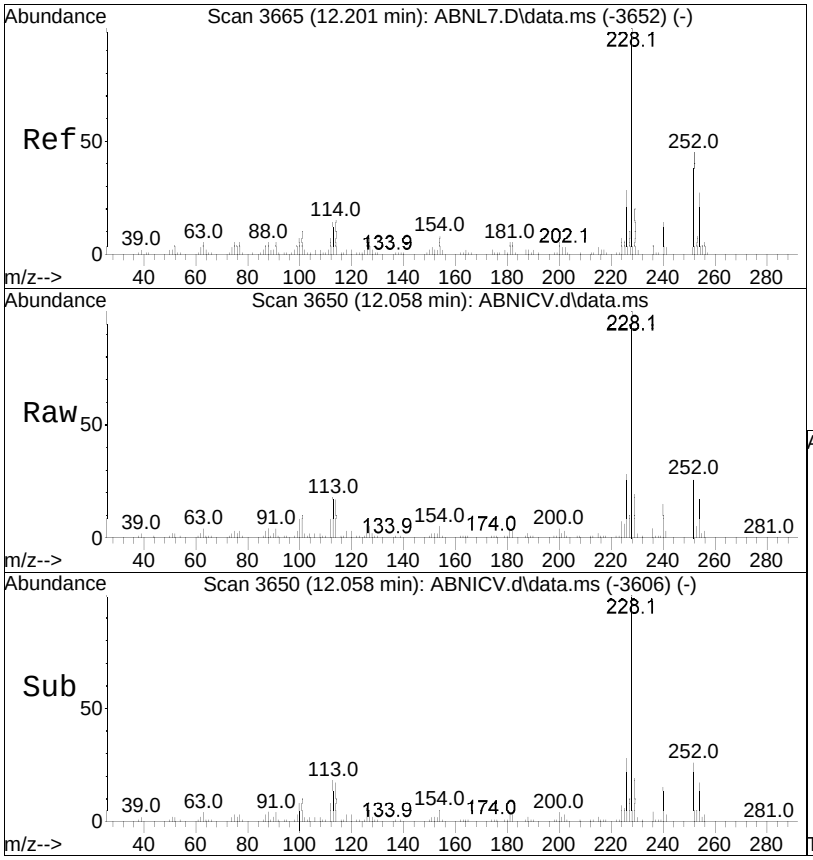


#96
Butyl benzyl phthalate
Concen: 53.53 ug/ml
RT: 11.410 min Scan# 3422
Delta R.T. 0.000 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion:149 Resp: 259508

Ion	Ratio	Lower	Upper
149	100		
91	78.3	61.2	91.8
206	14.7	12.5	18.7

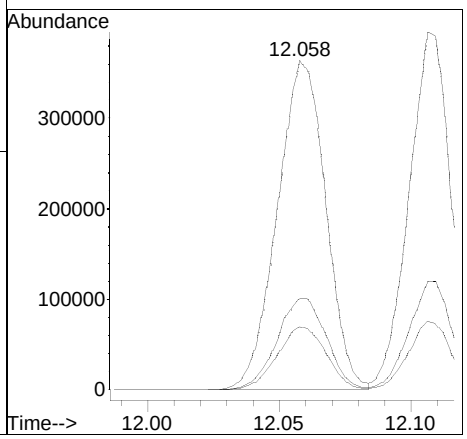


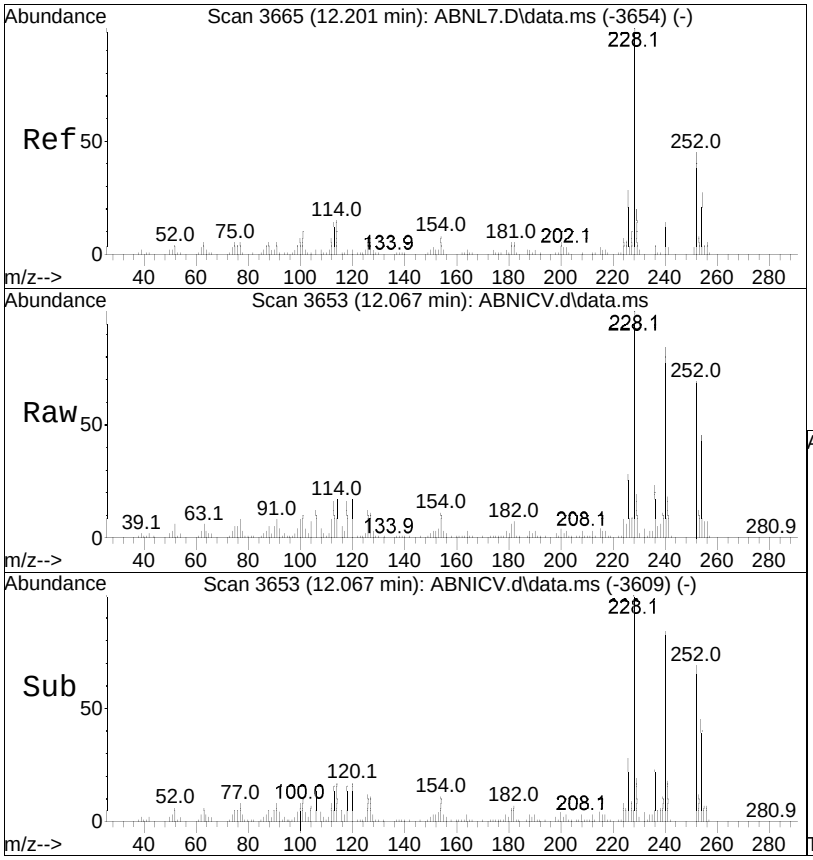


#104
Benzo(a)anthracene
Concen: 47.82 ug/ml
RT: 12.058 min Scan# 3650
Delta R.T. 0.000 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion:228 Resp: 465086

Ion	Ratio	Lower	Upper
228	100		
226	28.4	22.2	33.2
229	19.4	15.6	23.4

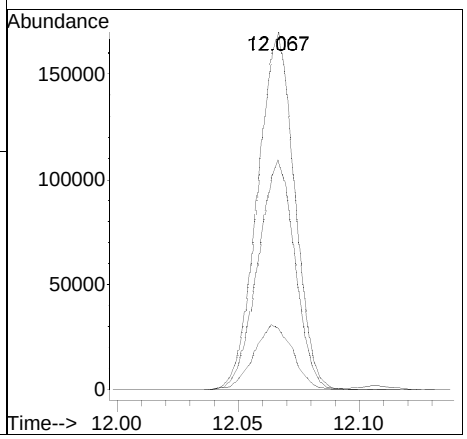


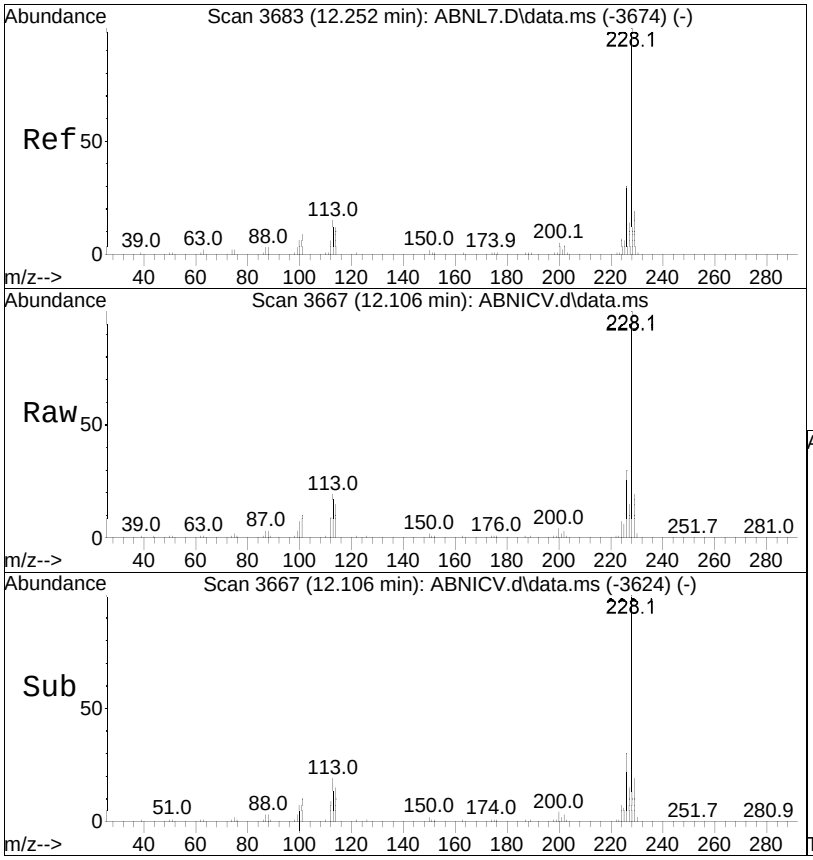


#105
3,3'-Dichlorobenzidine
Concen: 50.84 ug/ml
RT: 12.067 min Scan# 3653
Delta R.T. -0.000 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion:252 Resp: 179915

Ion	Ratio	Lower	Upper
252	100		
126	19.3	13.8	20.6
254	64.7	53.0	79.6

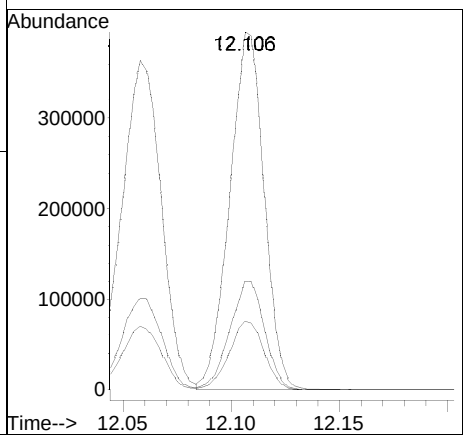


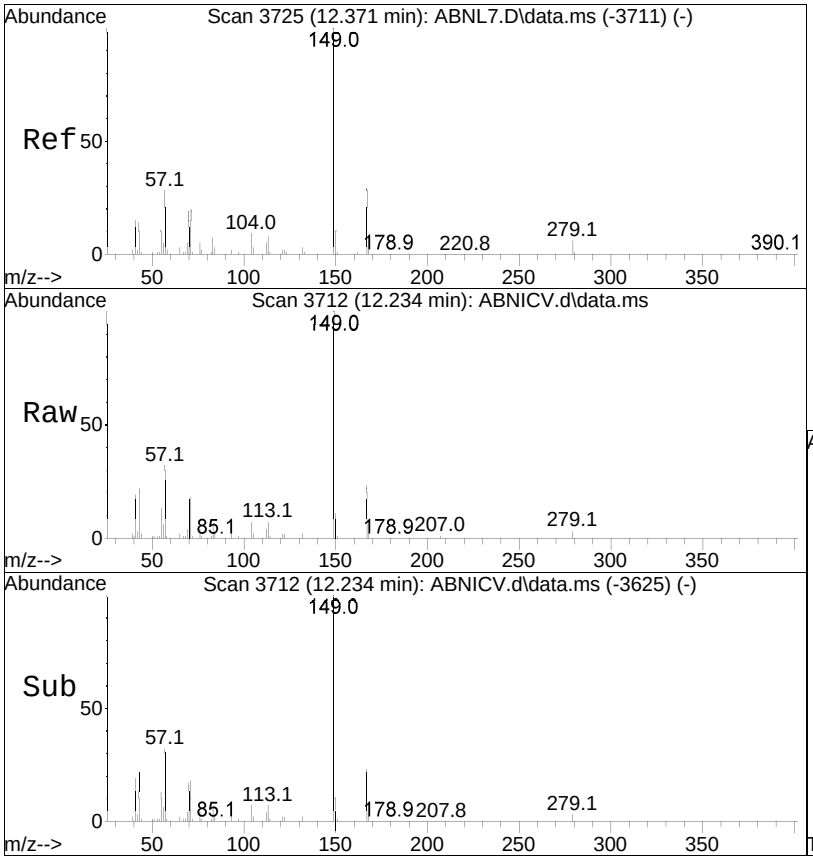


#106
Chrysene
Concen: 47.56 ug/ml
RT: 12.106 min Scan# 3667
Delta R.T. -0.003 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion:228 Resp: 436832

Ion	Ratio	Lower	Upper
228	100		
226	30.8	24.6	37.0
229	19.4	15.8	23.6

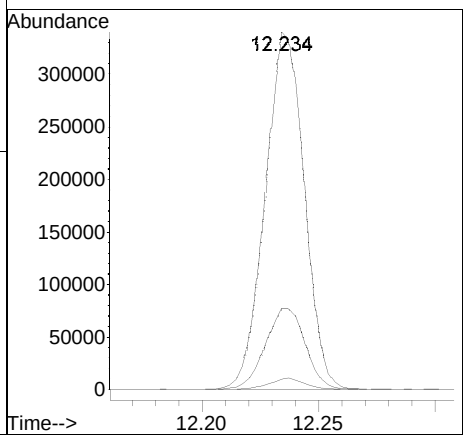


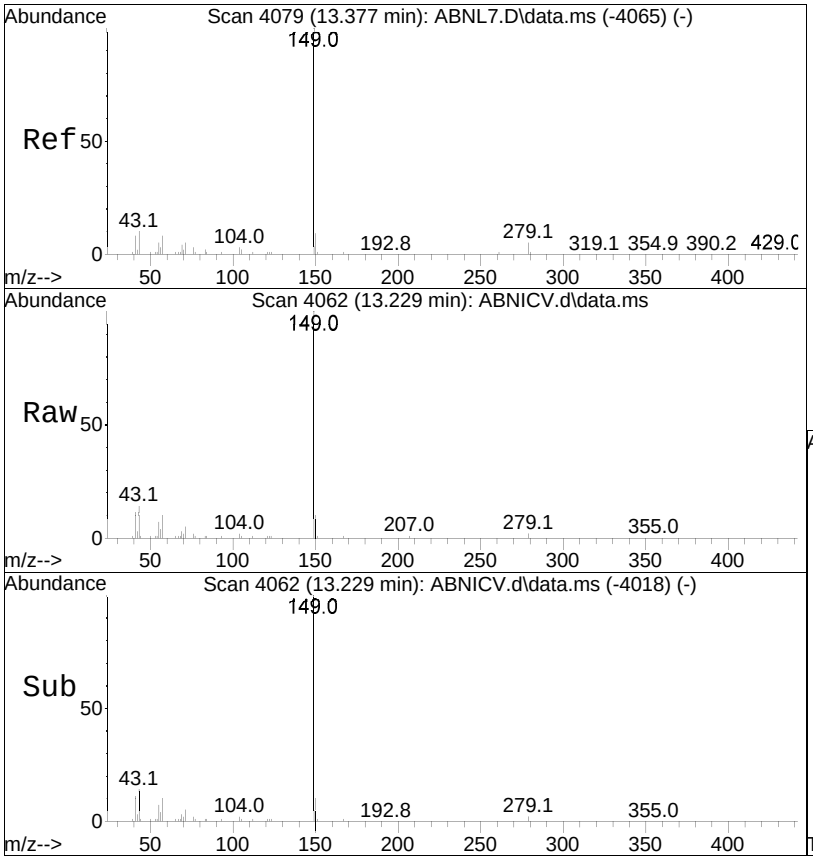


#107
Bis(2-ethylhexyl)phthalate
Concen: 51.12 ug/ml
RT: 12.234 min Scan# 3712
Delta R.T. -0.003 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion:149 Resp: 392603

Ion	Ratio	Lower	Upper
149	100		
167	23.3	19.4	29.0
279	2.7	2.3	3.5

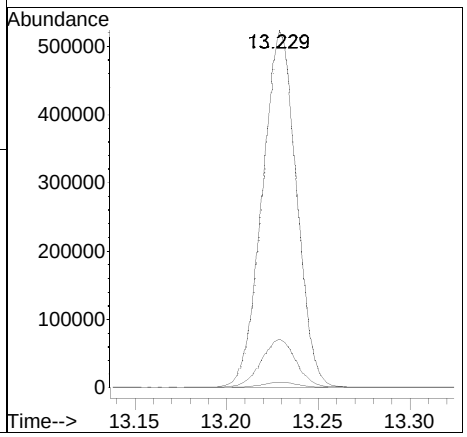


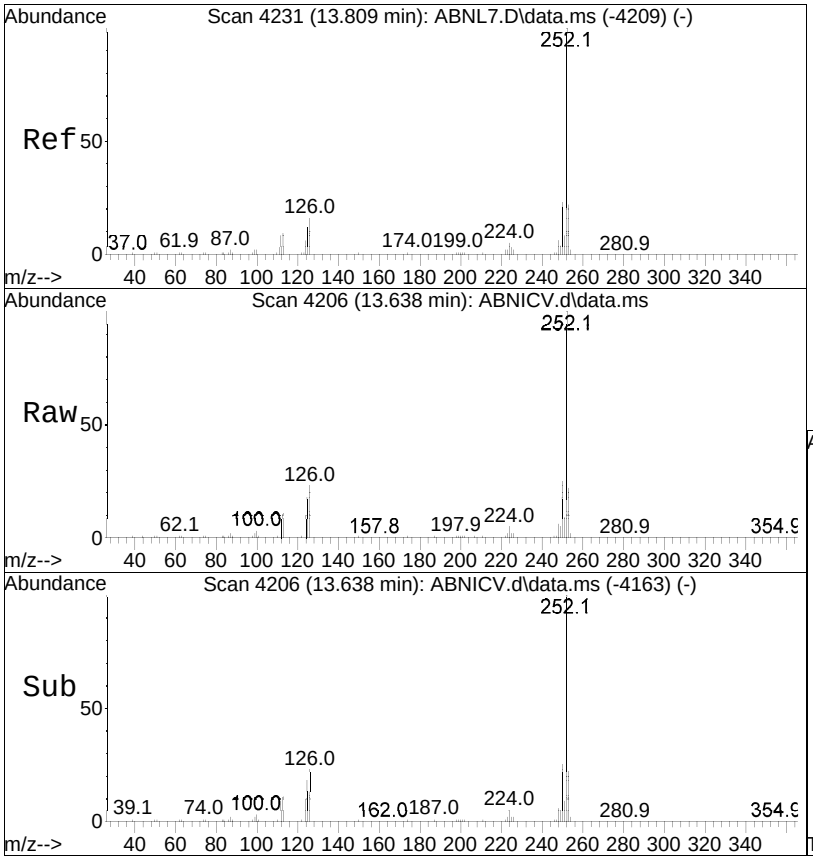


#108
Di-n-octylphthalate
Concen: 50.28 ug/ml
RT: 13.229 min Scan# 4062
Delta R.T. -0.000 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion:149 Resp: 668167

Ion	Ratio	Lower	Upper
149	100		
43	13.8	10.1	15.1
167	1.4	1.1	1.7

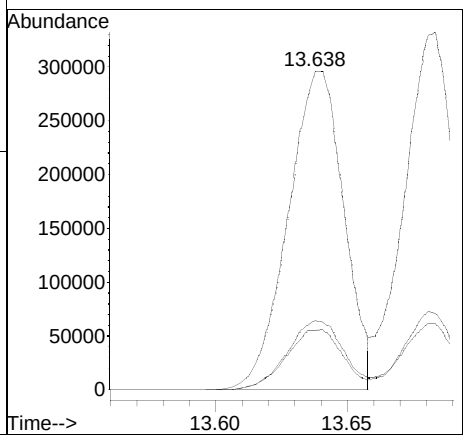


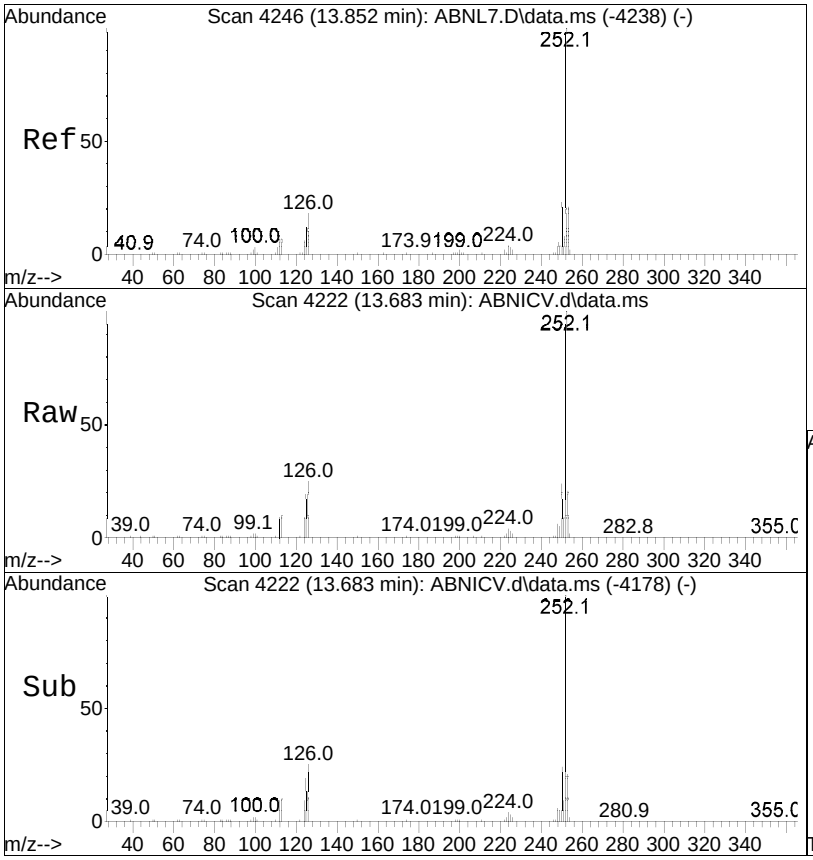


#109
Benzo(b)fluoranthene
Concen: 48.97 ug/ml
RT: 13.638 min Scan# 4206
Delta R.T. -0.003 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion:252 Resp: 436010

Ion	Ratio	Lower	Upper
252	100		
125	19.3	11.6	17.4#
253	21.9	17.4	26.0

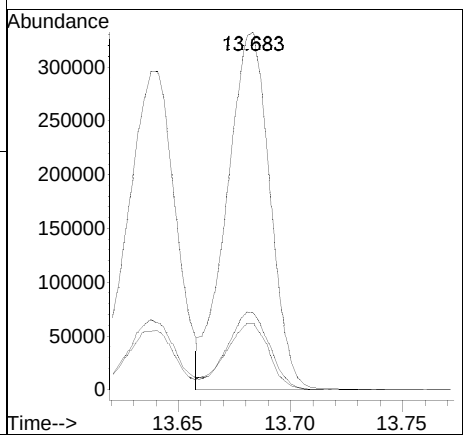


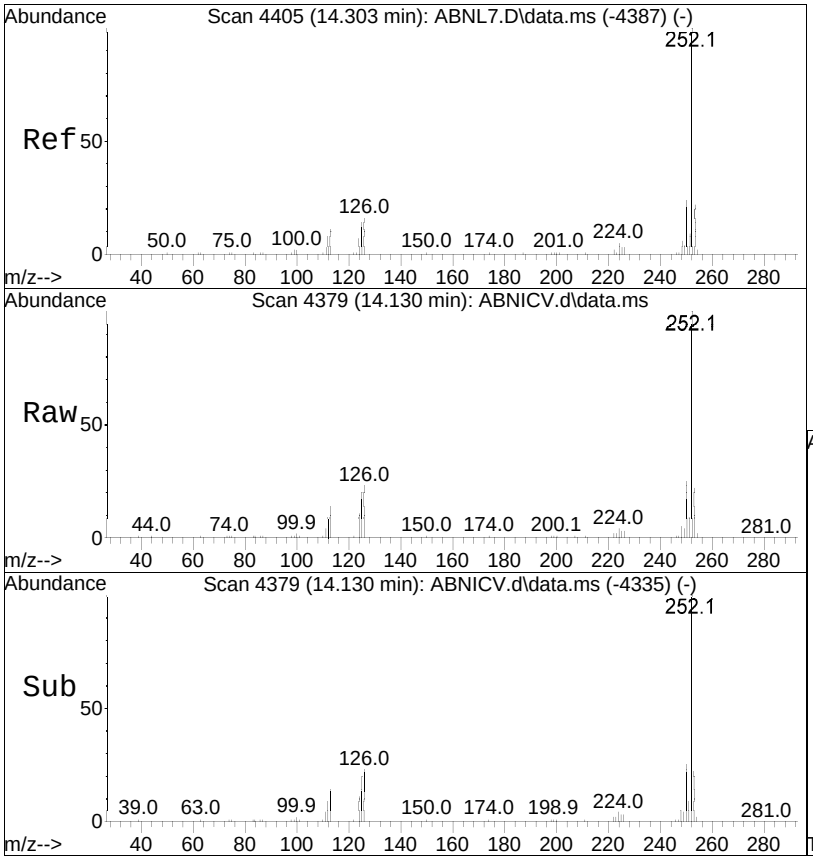


#110
Benzo(k)fluoranthene
Concen: 49.56 ug/ml
RT: 13.683 min Scan# 4222
Delta R.T. -0.001 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion:252 Resp: 443181

Ion	Ratio	Lower	Upper
252	100		
125	18.8	11.4	17.0#
253	21.4	17.2	25.8

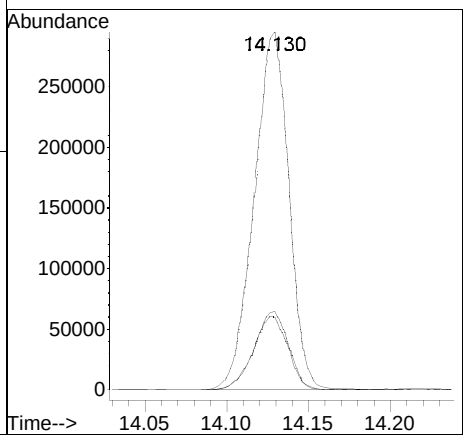


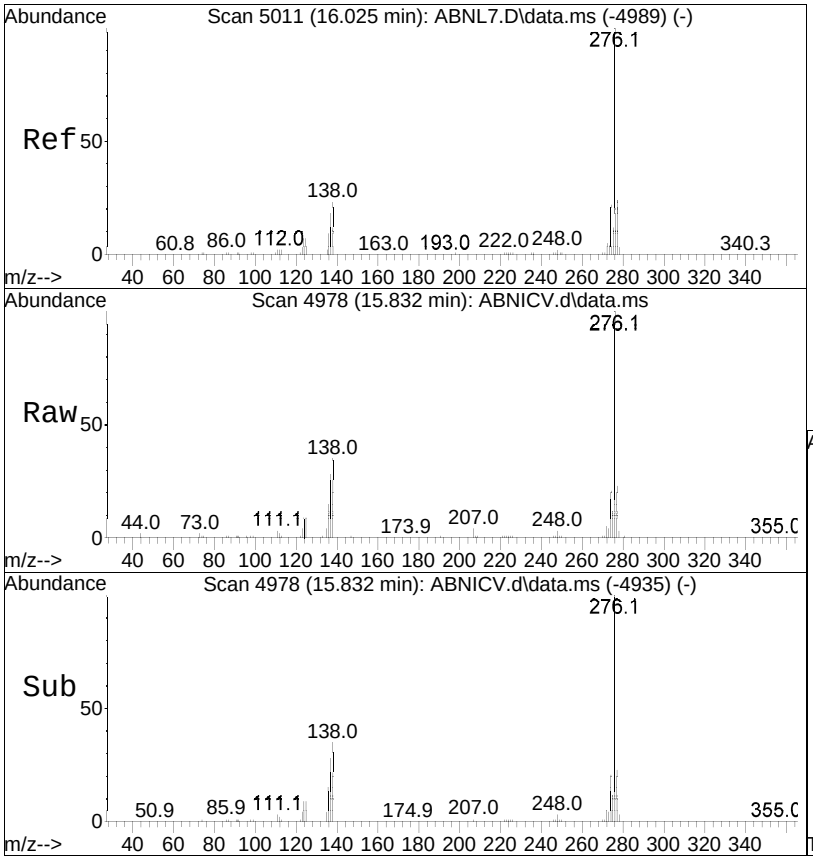


#111
Benzo(a)pyrene
Concen: 50.15 ug/ml
RT: 14.130 min Scan# 4379
Delta R.T. -0.000 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion:252 Resp: 432883

Ion	Ratio	Lower	Upper
252	100		
125	20.7	12.6	18.8#
253	21.8	16.9	25.3

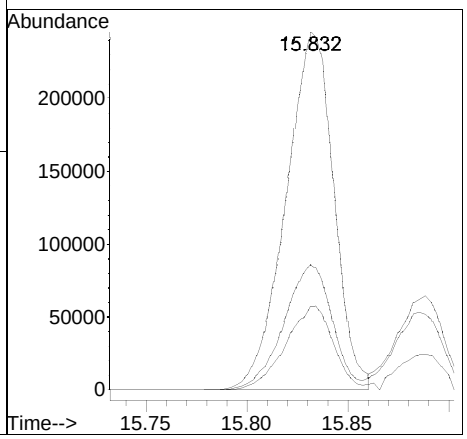


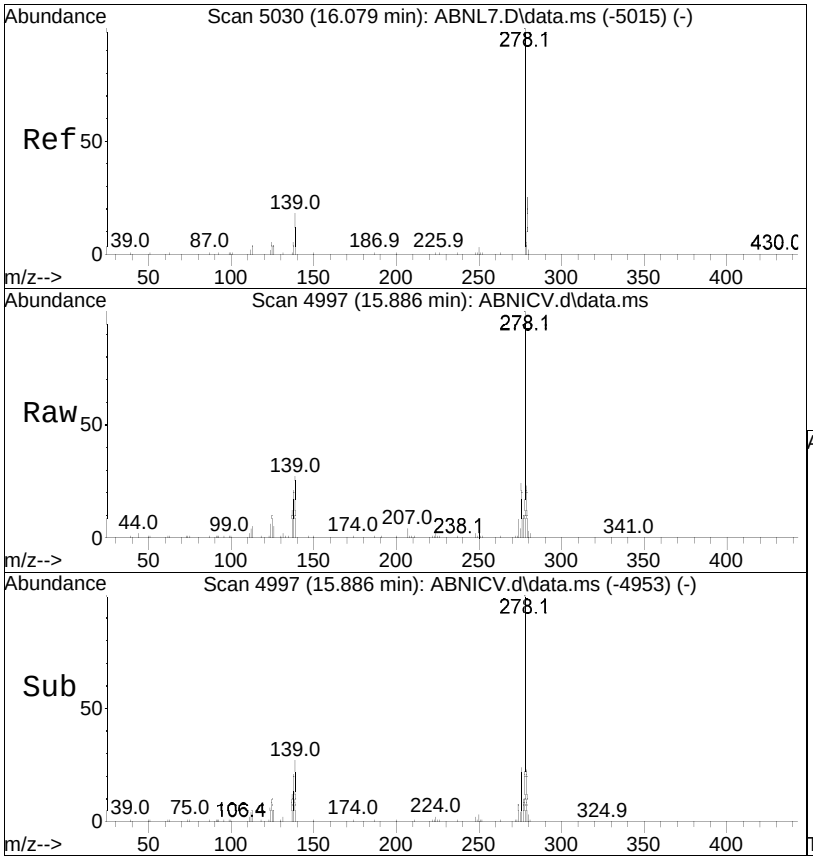


#113
Indeno(1,2,3-cd)pyrene
Concen: 48.58 ug/mL
RT: 15.832 min Scan# 4978
Delta R.T. -0.002 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion:276 Resp: 403064

Ion	Ratio	Lower	Upper
276	100		
138	35.5	21.4	32.0#
277	23.6	19.2	28.8

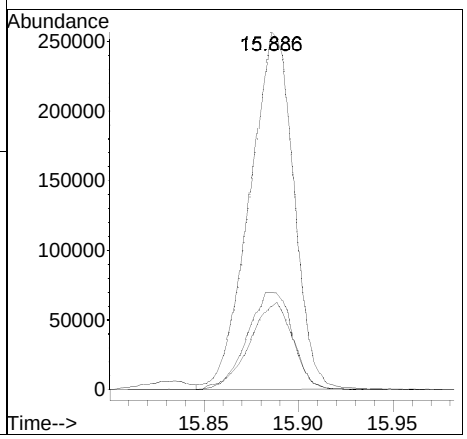


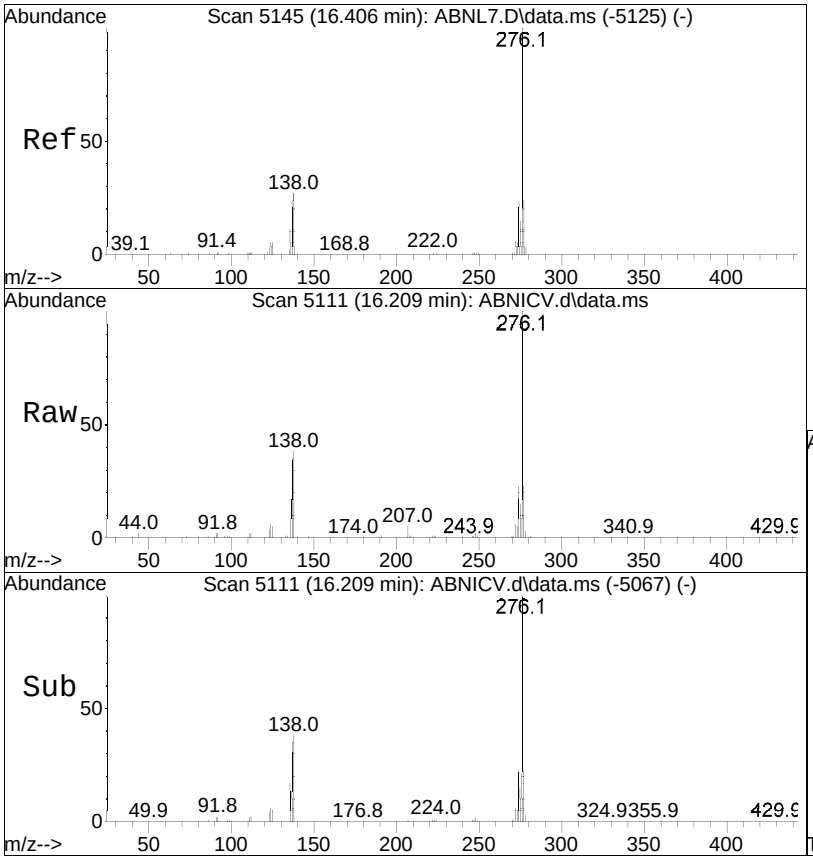


#114
Dibenzo(a,h)anthracene
Concen: 48.61 ug/ml
RT: 15.886 min Scan# 4997
Delta R.T. -0.000 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion:278 Resp: 411988

Ion	Ratio	Lower	Upper
278	100		
139	28.5	17.1	25.7#
279	23.9	19.3	28.9

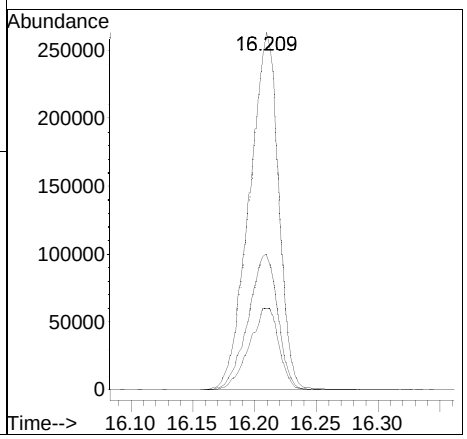




#115
Benzo(ghi)perylene
Concen: 49.08 ug/ml
RT: 16.209 min Scan# 5111
Delta R.T. -0.001 min
Lab File: ABNICV.d
Acq: 5 Dec 2018 8:39 am

Tgt Ion:276 Resp: 431688

Ion	Ratio	Lower	Upper
276	100		
138	38.6	23.0	34.4#
277	23.4	18.6	28.0



Manual Integration Report

Data Path	: I:\8270\SV103\181204nical\	QMethod	: FS181204nSV103.m
Data File	: ABNICV.d	Operator	: SV103:cb
Date Inj'd	: 12/5/2018 8:39 am	Instrument	: SV103
Sample	: CQICV1,32,,ABN ICV Lot#778	Quant Date	: 12/6/2018 9:35 am

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV103\181204nical\
Data File : AP9ICV.d
Acq On : 5 Dec 2018 9:05 am
Operator : SV103:cb
Sample : CQICV2,32,,AP9 ICV Lot#7798
Misc : wg1186012,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 05 12:15:45 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 12:14:32 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
27	I	IS2_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	104	0.00
28	T	Benzaldehyde	1.166	1.236	-6.0	111	0.00
29	T	Acetophenone	1.889	1.997	-5.7	107	0.00
30	T	m-Toluidine	2.006	2.109	-5.1	105	0.00
31	T	2-Chloroaniline	1.798	1.900	-5.7	107	0.00
54	I	IS2_Naphthalene-d8	1.000	1.000	0.0	100	0.00
55	T	a-Terpineol	0.305	0.324	-6.2	104	0.00
56	T	3-Chloroaniline	0.141	0.145	-2.8	105	0.00
57	T	2,6-Dichlorophenol	0.232	0.255	-9.9	106	0.00
58	T	1-chloro-2-nitrobenzene	0.126	0.135	-7.1	102	0.00
59	T	Caprolactam	0.170	0.181	-6.5	104	0.00
60	T	1,2,4,5-Tetrachlorobenzene	0.217	0.232	-6.9	104	0.00
61	T	Biphenyl	0.702	0.754	-7.4	106	0.00
82	I	IS2_Acenaphthene-d10	1.000	1.000	0.0	95	0.00
83	T	Dichloran	0.136	0.158	-16.2	106	0.00
84	T	Pentachloronitrobenzene	0.123	0.133	-8.1	101	0.00
97	I	IS2_Phenanthrene-d10	1.000	1.000	0.0	94	0.00
98	T	Diphenamid	0.476	0.526	-10.5	101	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181204nical\
Data File : AP9ICV.d
Acq On : 5 Dec 2018 9:05 am
Operator : SV103:cb
Sample : CQICV2,32,,AP9 ICV Lot#7798
Misc : wg1186012,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 05 12:15:45 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 12:14:32 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\181204nical\AP9L7.d
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.804	152	76855	40.000	ug/ml	0.00
Standard Area 1 = 73923			Recovery = 103.97%			
54) IS2_Naphthalene-d8	6.048	136	328988	40.000	ug/ml	0.00
Standard Area 1 = 329908			Recovery = 99.72%			
82) IS2_Acenaphthene-d10	7.759	164	140404	40.000	ug/ml	0.00
Standard Area 1 = 147866			Recovery = 94.95%			
97) IS2_Phenanthrene-d10	9.197	188	260732	40.000	ug/ml	0.00
Standard Area 1 = 276146			Recovery = 94.42%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.375	105	118723	52.991	ug/ml	99
29) Acetophenone	5.213	105	191826	52.863	ug/ml	97
30) m-Toluidine	5.293	106	202651	52.573	ug/ml	99
31) 2-Chloroaniline	5.653	127	182542	52.837	ug/ml	96
55) a-Terpineol	6.108	59	133314	53.141	ug/ml	97
56) 3-Chloroaniline	6.122	65	59763	51.454	ug/ml	87
57) 2,6-Dichlorophenol	6.148	162	105065	55.087	ug/ml	99
58) 1-chloro-2-nitrobenzene	6.404	111	55623	53.706	ug/ml	99
59) Caprolactam	6.480	55	74417	53.265	ug/ml	98
60) 1,2,4,5-Tetrachloroben...	6.918	216	95332	53.310	ug/ml	99
61) Biphenyl	7.213	154	310073	53.672	ug/ml	98
83) Dichloran	8.896	206	27680	58.026	ug/ml	90
84) Pentachloronitrobenzene	9.040	237	23284	54.066	ug/ml#	87
98) Diphenamid	10.106	167	171383	55.213	ug/ml	91

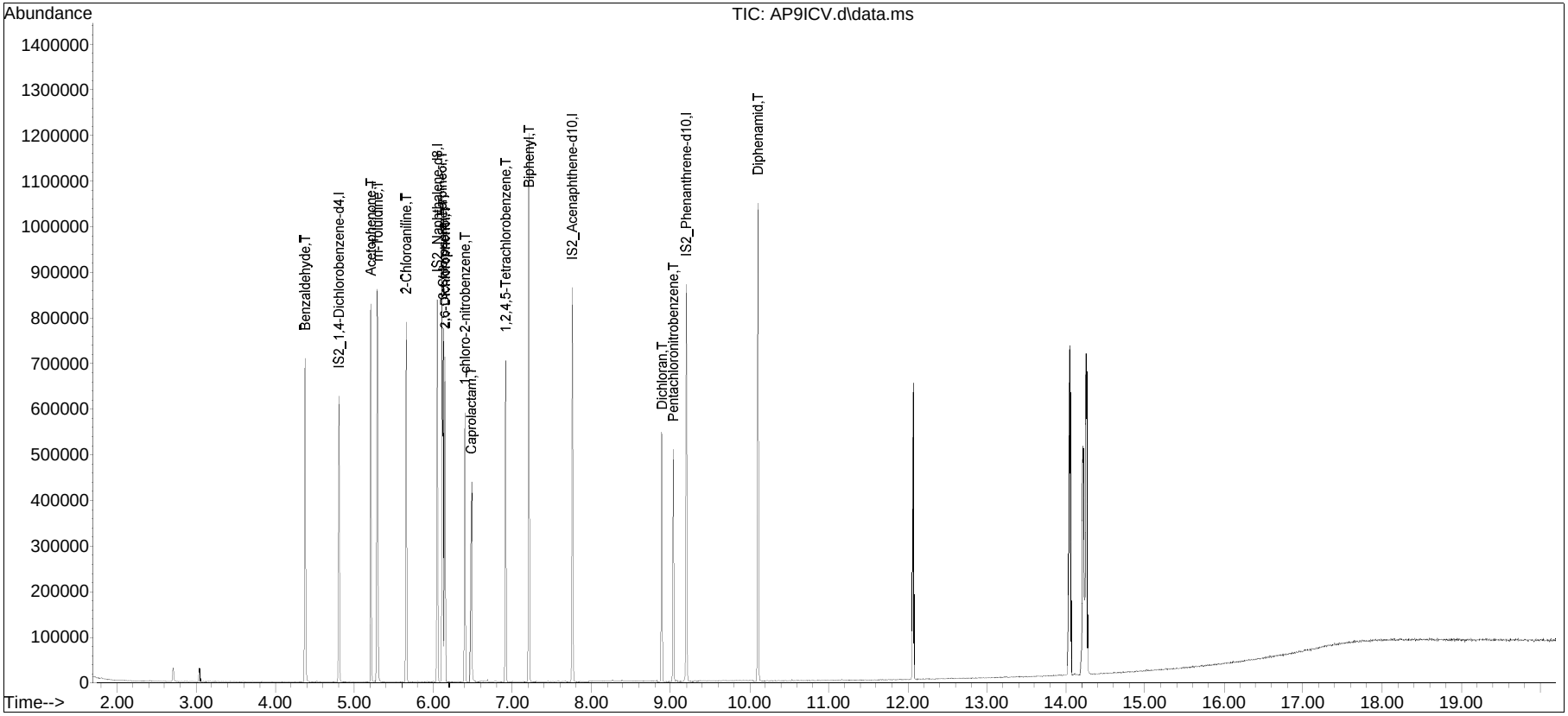
(#) = qualifier out of range (m) = manual integration (+) = signals summed

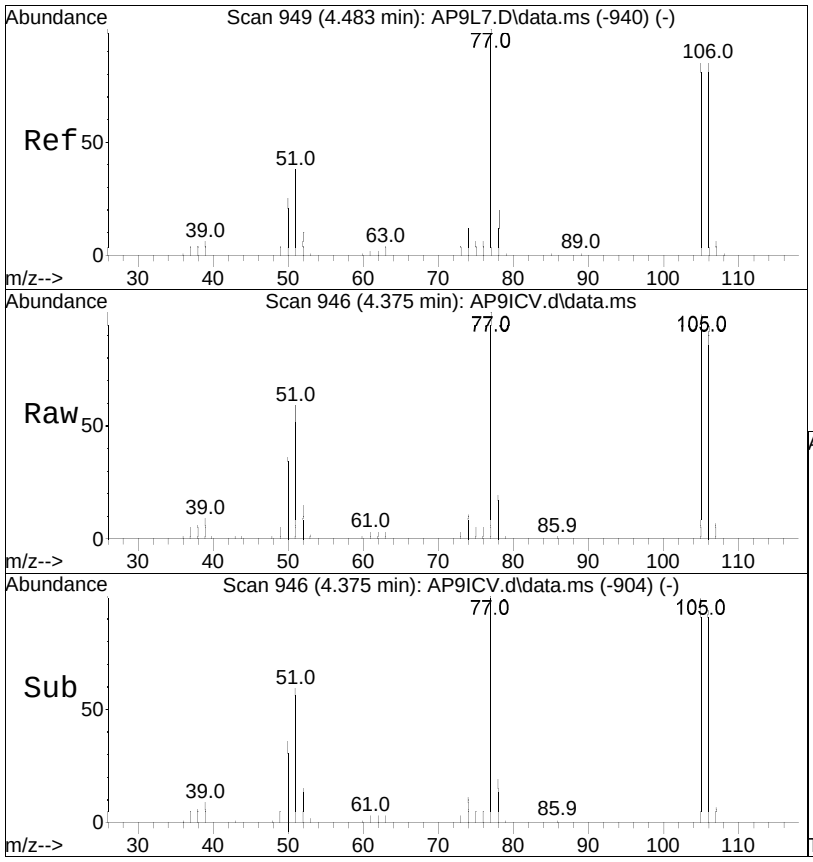
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181204nical\
Data File : AP9ICV.d
Acq On : 5 Dec 2018 9:05 am
Operator : SV103:cb
Sample : CQICV2,32,,AP9 ICV Lot#7798
Misc : wg1186012,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 05 12:15:45 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 12:14:32 2018
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistcal\AP9L7.d•

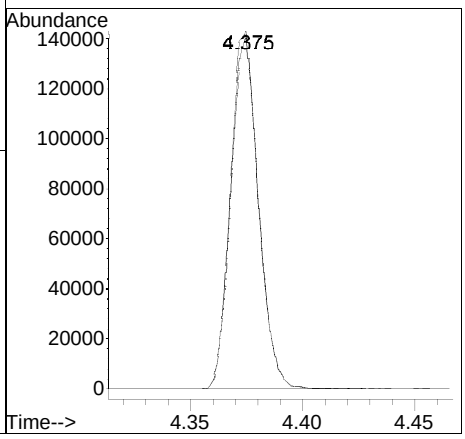


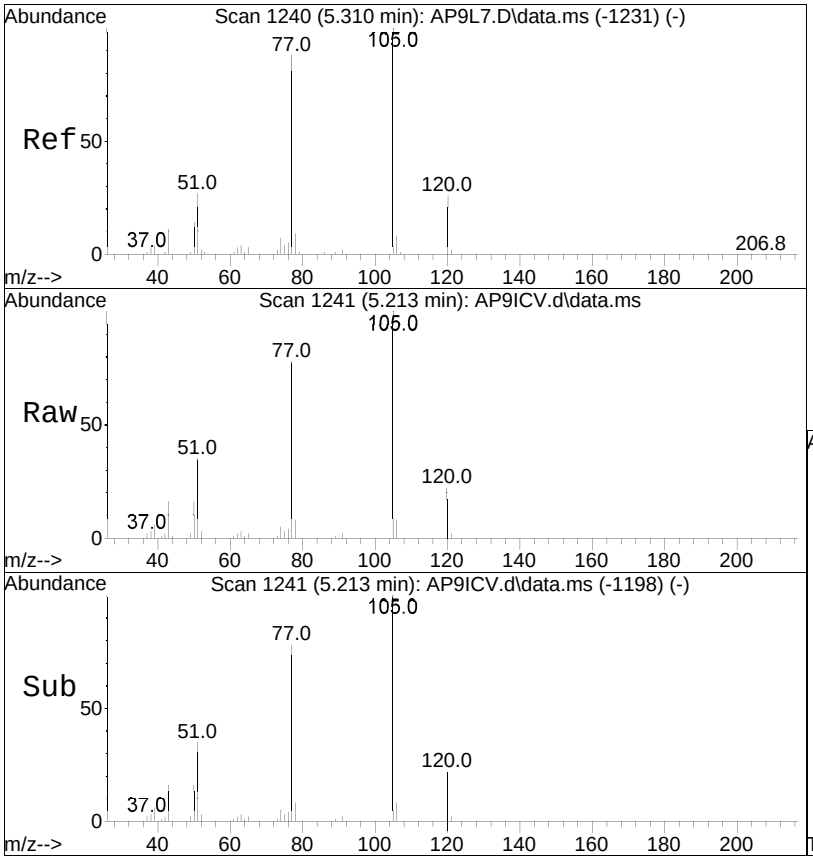


#28
Benzaldehyde
Concen: 52.99 ug/ml
RT: 4.375 min Scan# 946
Delta R.T. -0.006 min
Lab File: AP9ICV.d
Acq: 5 Dec 2018 9:05 am

Tgt Ion:105 Resp: 118723

Ion	Ratio	Lower	Upper
105	100		
77	102.8	82.9	124.3

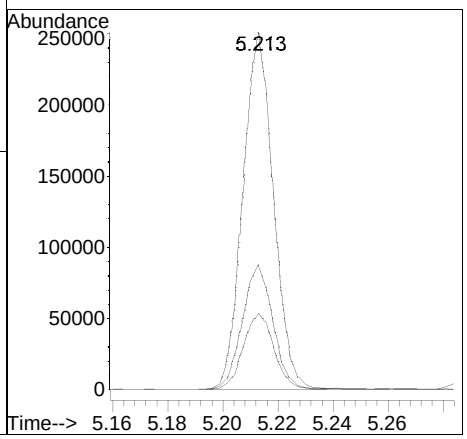


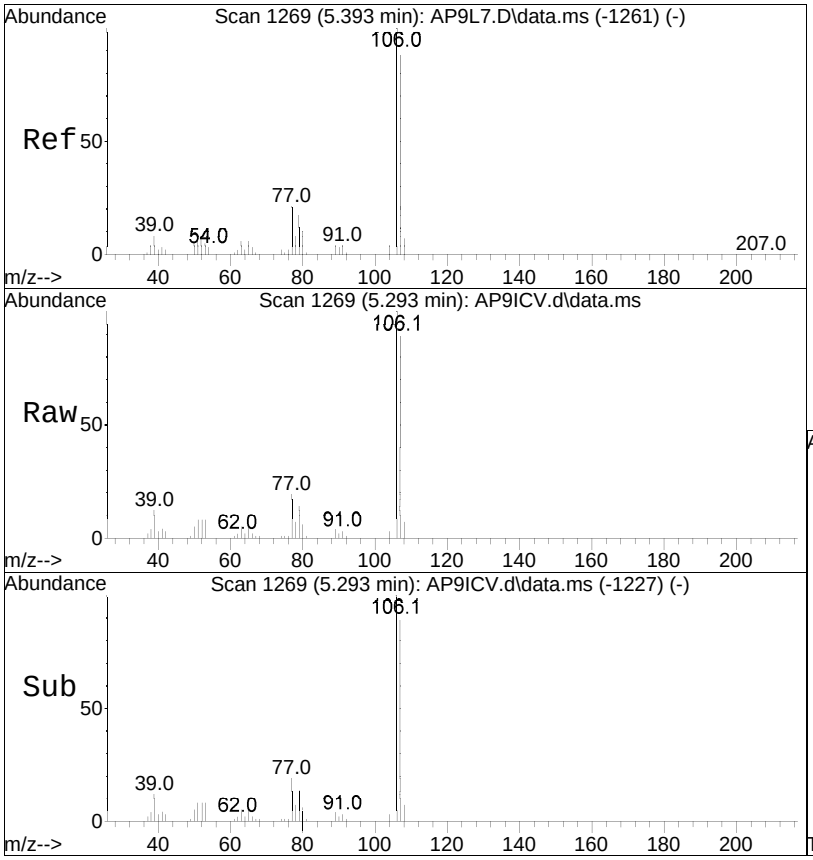


#29
Acetophenone
Concen: 52.86 ug/ml
RT: 5.213 min Scan# 1241
Delta R.T. -0.003 min
Lab File: AP9ICV.d
Acq: 5 Dec 2018 9:05 am

Tgt Ion:105 Resp: 191826

Ion	Ratio	Lower	Upper
105	100		
120	21.5	16.4	24.6
51	35.1	26.5	39.7

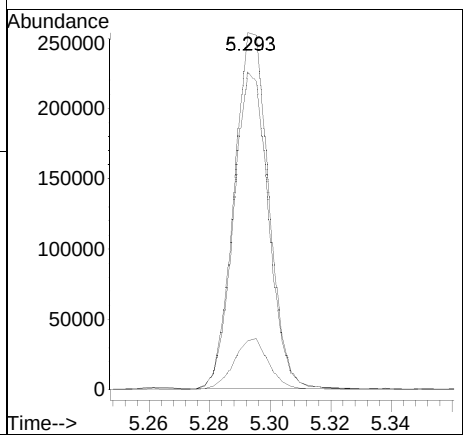


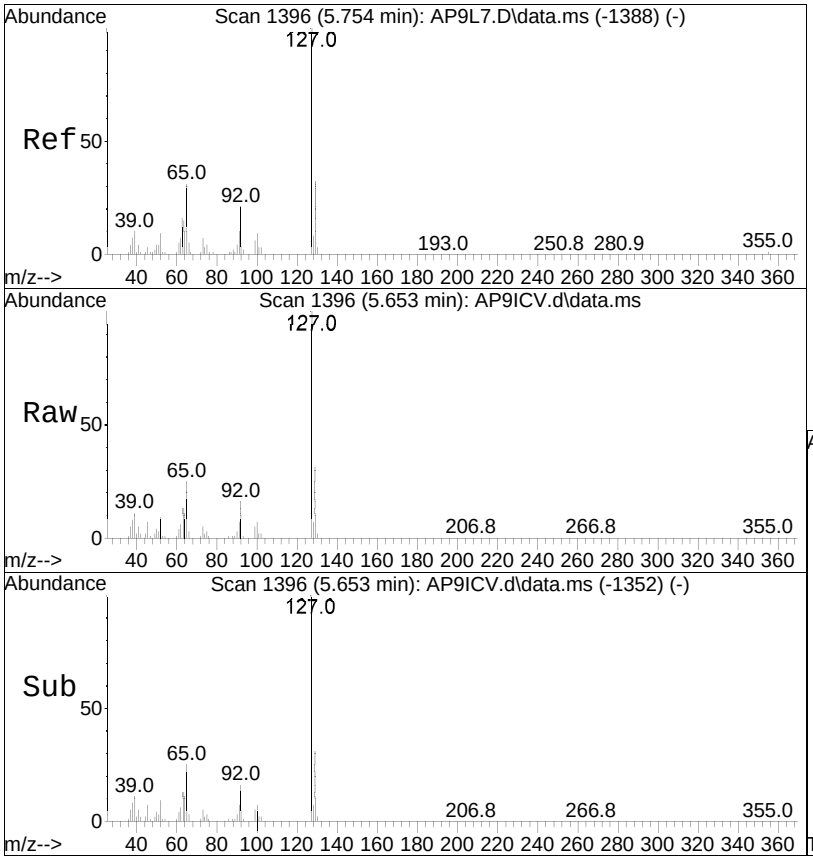


#30
m-Toluidine
Concen: 52.57 ug/ml
RT: 5.293 min Scan# 1269
Delta R.T. -0.005 min
Lab File: AP9ICV.d
Acq: 5 Dec 2018 9:05 am

Tgt Ion:106 Resp: 202651

Ion	Ratio	Lower	Upper
106	100		
107	89.7	71.6	107.4
79	14.3	12.7	19.1

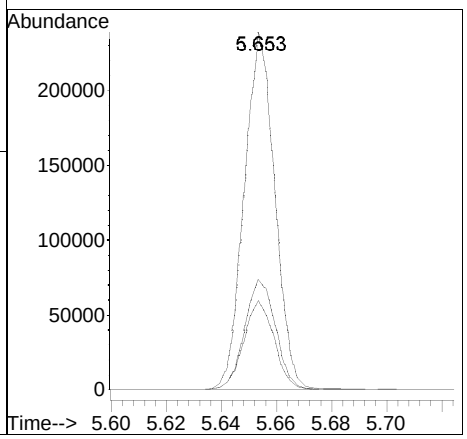


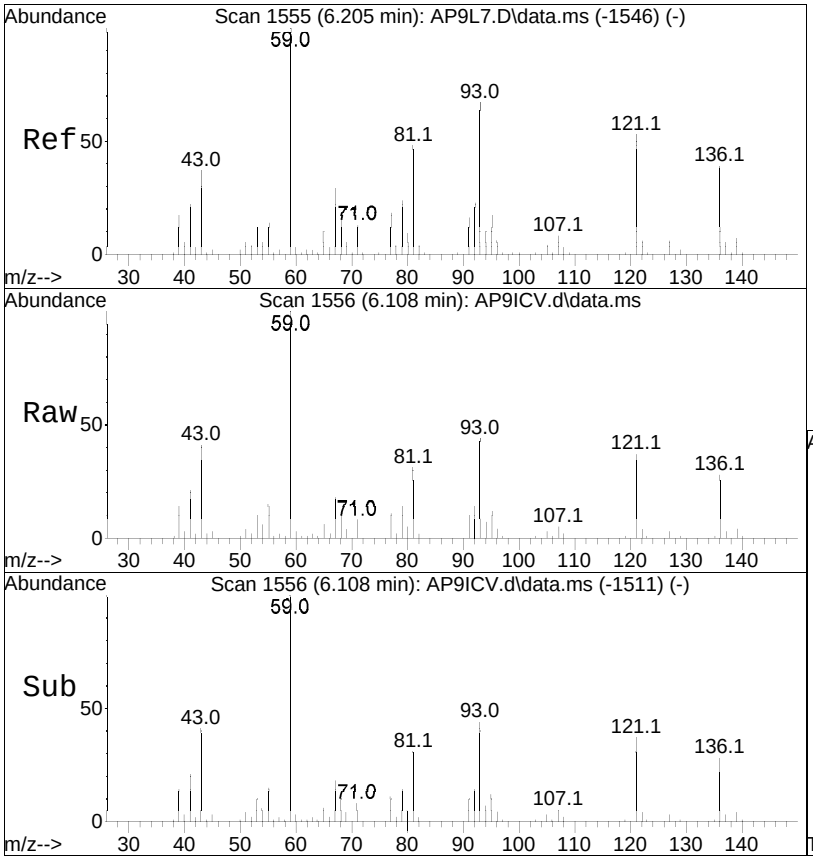


#31
2-Chloroaniline
Concen: 52.84 ug/ml
RT: 5.653 min Scan# 1396
Delta R.T. -0.001 min
Lab File: AP9ICV.d
Acq: 5 Dec 2018 9:05 am

Tgt Ion:127 Resp: 182542

Ion	Ratio	Lower	Upper
127	100		
129	31.4	26.0	39.0
65	25.0	22.9	34.3

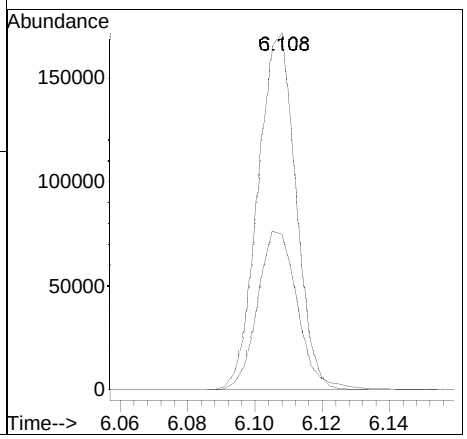


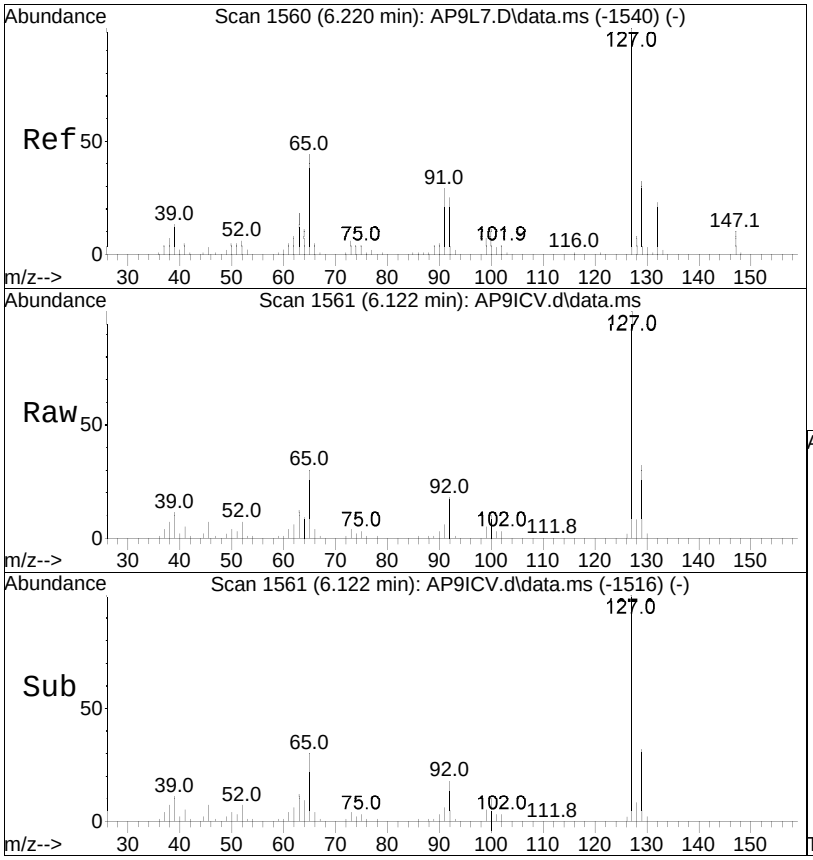


#55
a-Terpineol
Concen: 53.14 ug/ml
RT: 6.108 min Scan# 1556
Delta R.T. 0.003 min
Lab File: AP9ICV.d
Acq: 5 Dec 2018 9:05 am

Tgt Ion: 59 Resp: 133314

Ion	Ratio	Lower	Upper
59	100		
93	47.3	39.4	59.0

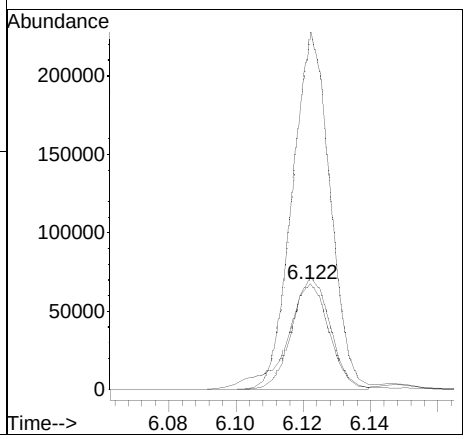


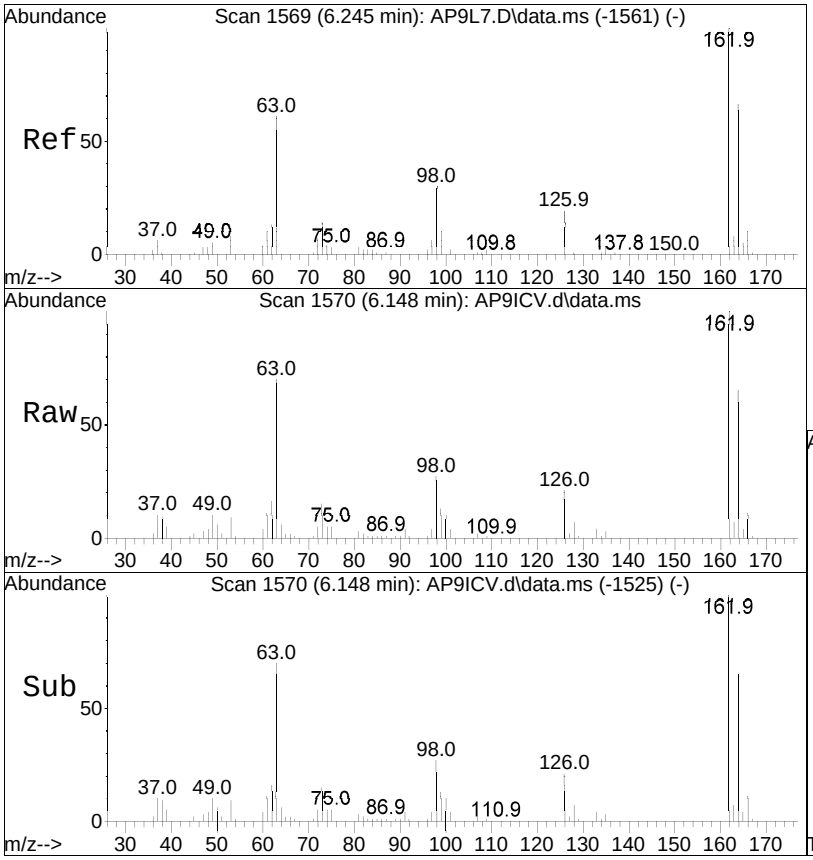


#56
3-Chloroaniline
Concen: 51.45 ug/ml
RT: 6.122 min Scan# 1561
Delta R.T. 0.002 min
Lab File: AP9ICV.d
Acq: 5 Dec 2018 9:05 am

Tgt Ion: 65 Resp: 59763

Ion	Ratio	Lower	Upper
65	100		
127	296.4	216.4	324.6
129	95.3	68.8	103.2

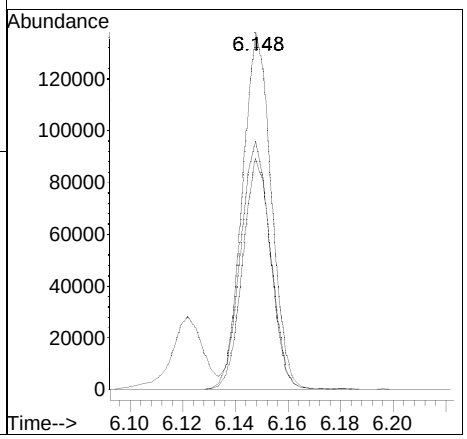


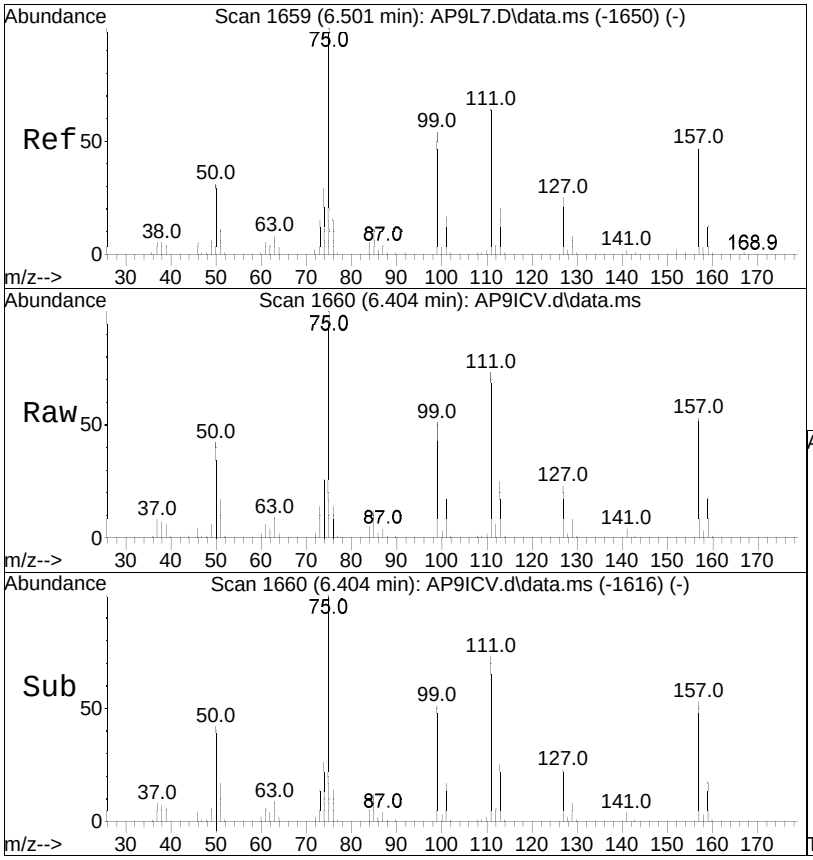


#57
2,6-Dichlorophenol
Concen: 55.09 ug/ml
RT: 6.148 min Scan# 1570
Delta R.T. 0.003 min
Lab File: AP9ICV.d
Acq: 5 Dec 2018 9:05 am

Tgt Ion:162 Resp: 105065

Ion	Ratio	Lower	Upper
162	100		
164	64.3	50.2	75.4
63	70.2	56.6	85.0

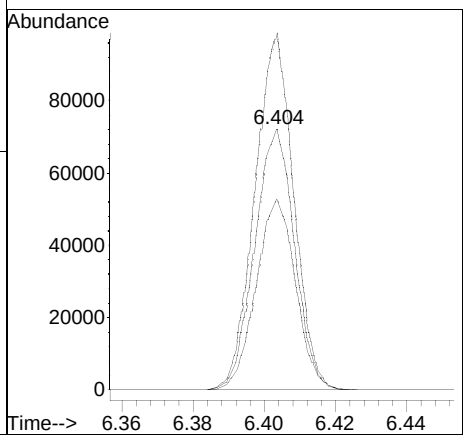


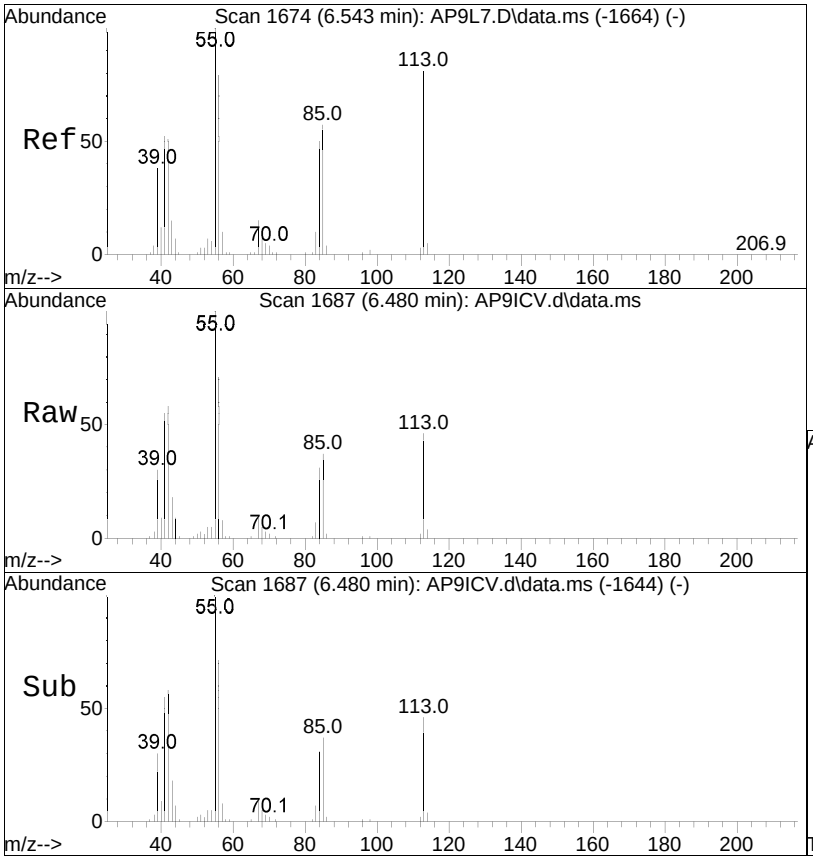


#58
1-chloro-2-nitrobenzene
Concen: 53.71 ug/ml
RT: 6.404 min Scan# 1660
Delta R.T. -0.000 min
Lab File: AP9ICV.d
Acq: 5 Dec 2018 9:05 am

Tgt Ion:111 Resp: 55623

Ion	Ratio	Lower	Upper
111	100		
157	72.7	59.4	89.2
75	133.2	105.4	158.0

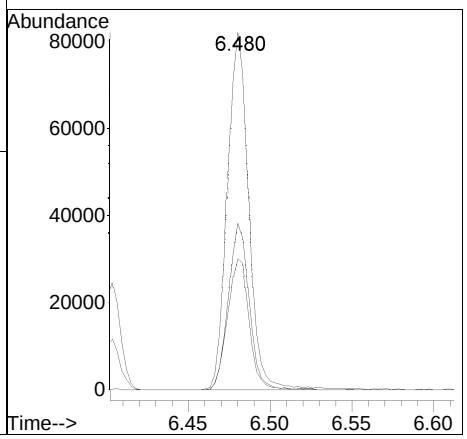


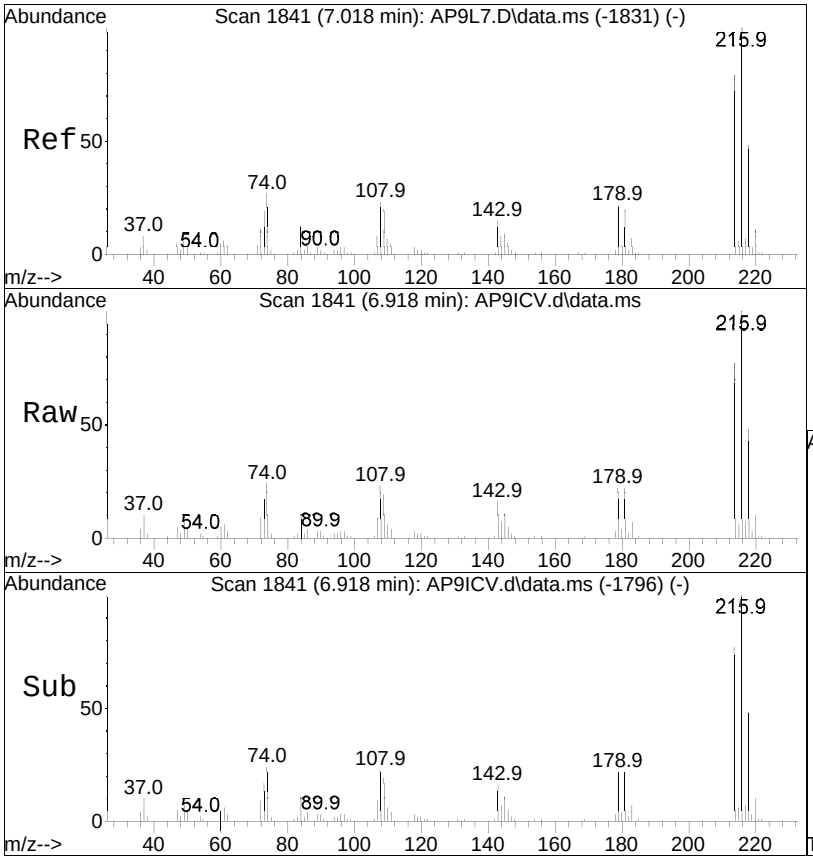


#59
Caprolactam
Concen: 53.27 ug/ml
RT: 6.480 min Scan# 1687
Delta R.T. -0.003 min
Lab File: AP9ICV.d
Acq: 5 Dec 2018 9:05 am

Tgt Ion: 55 Resp: 74417

Ion	Ratio	Lower	Upper
55	100		
85	37.1	31.3	46.9
113	45.3	35.4	53.0

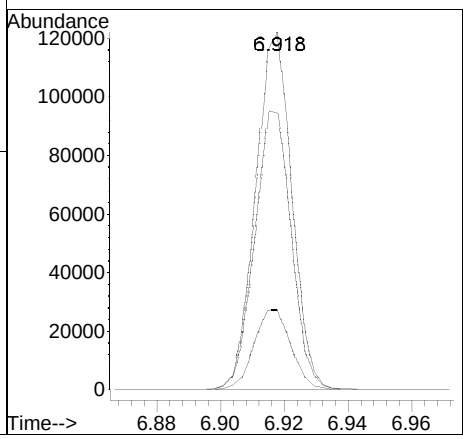


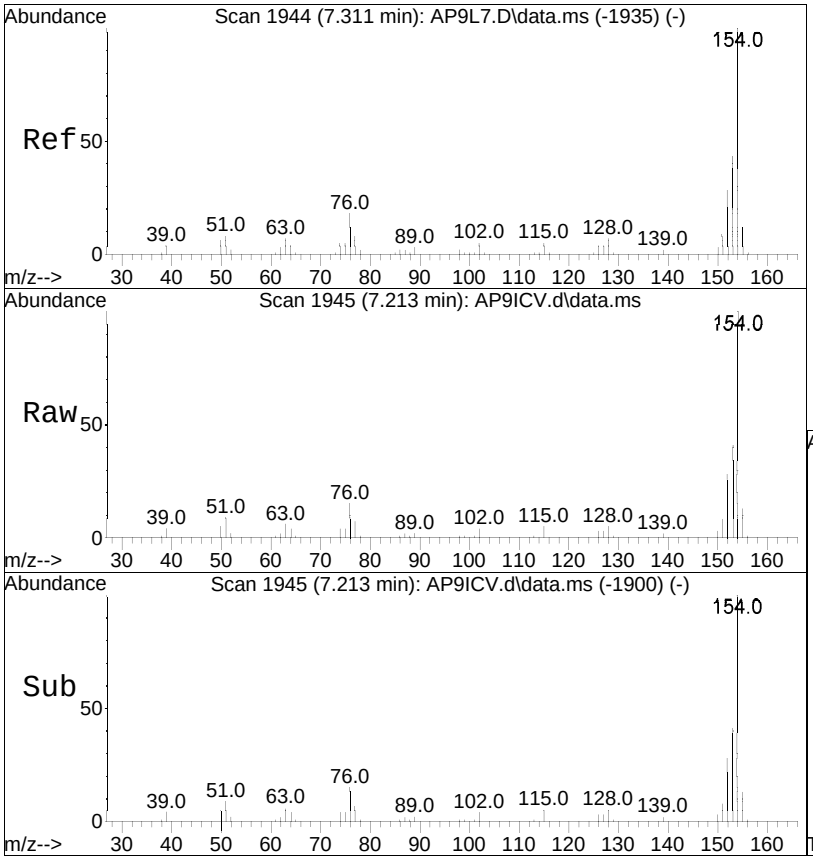


#60
1,2,4,5-Tetrachlorobenzene
Concen: 53.31 ug/ml
RT: 6.918 min Scan# 1841
Delta R.T. 0.003 min
Lab File: AP9ICV.d
Acq: 5 Dec 2018 9:05 am

Tgt Ion:216 Resp: 95332

Ion	Ratio	Lower	Upper
216	100		
214	78.9	63.1	94.7
179	22.9	19.4	29.0

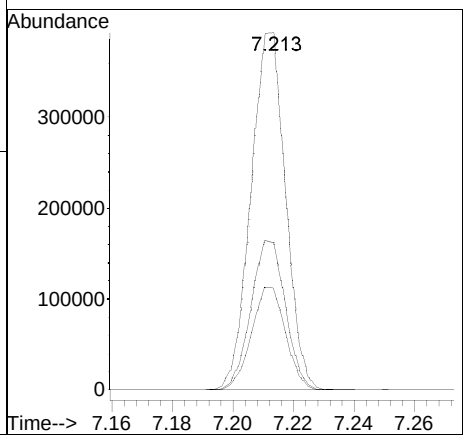


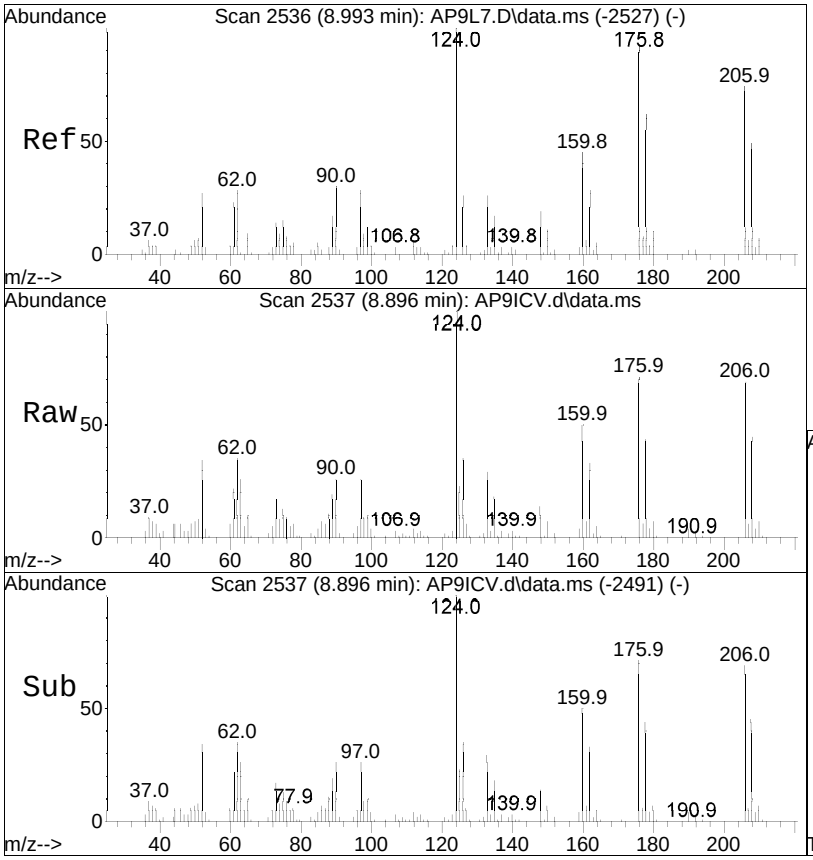


#61
Biphenyl
Concen: 53.67 ug/ml
RT: 7.213 min Scan# 1945
Delta R.T. 0.002 min
Lab File: AP9ICV.d
Acq: 5 Dec 2018 9:05 am

Tgt Ion:154 Resp: 310073

Ion	Ratio	Lower	Upper
154	100		
153	42.0	33.0	49.6
152	28.5	21.7	32.5

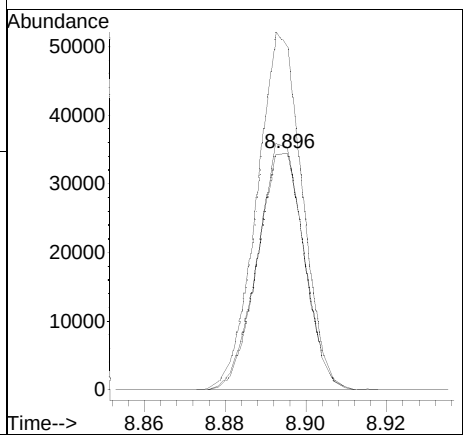


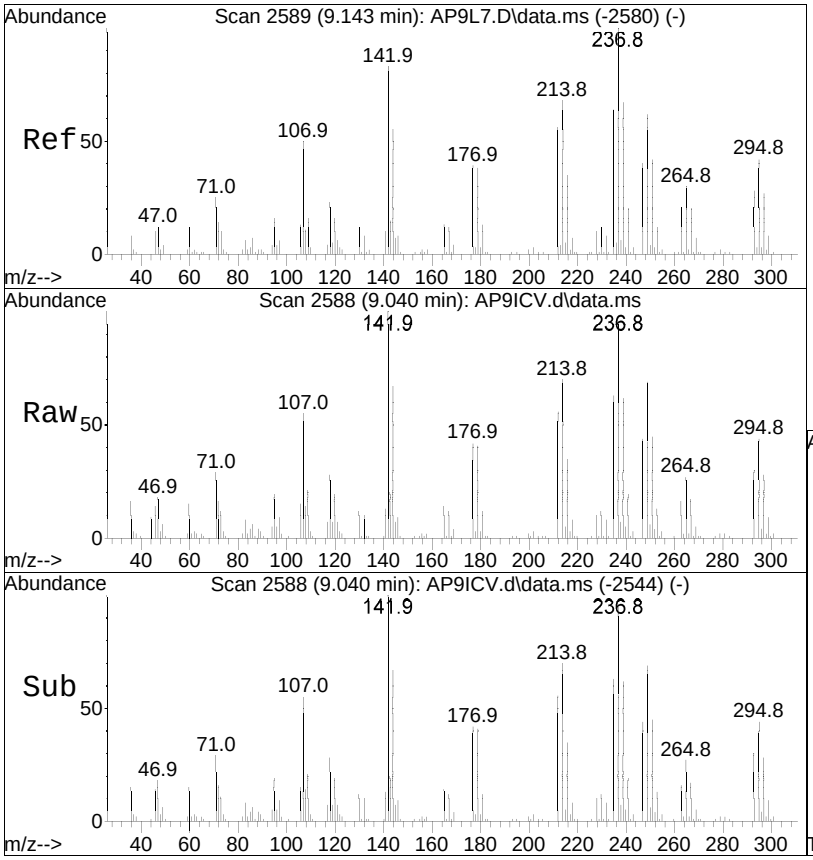


#83
Dichloran
Concen: 58.03 ug/ml
RT: 8.896 min Scan# 2537
Delta R.T. 0.005 min
Lab File: AP9ICV.d
Acq: 5 Dec 2018 9:05 am

Tgt Ion:206 Resp: 27680

Ion	Ratio	Lower	Upper
206	100		
176	103.2	100.1	150.1
124	146.4	118.6	177.8

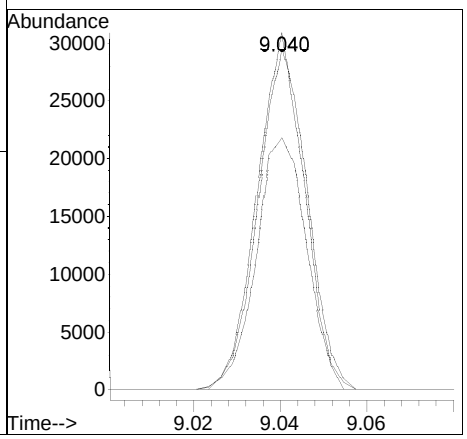


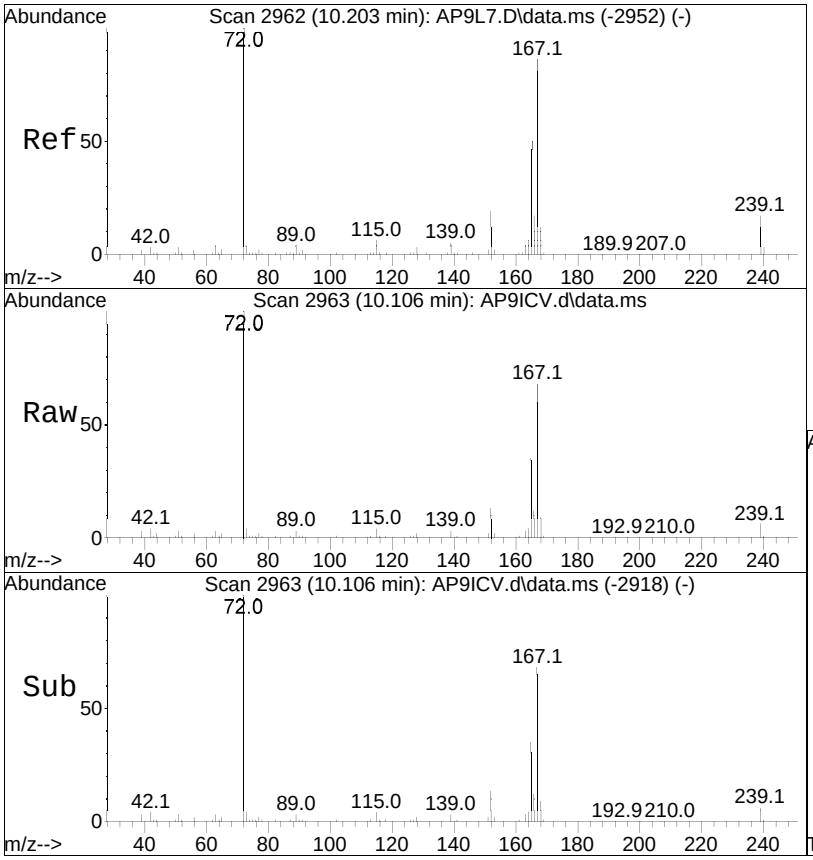


#84
Pentachloronitrobenzene
Concen: 54.07 ug/ml
RT: 9.040 min Scan# 2588
Delta R.T. -0.001 min
Lab File: AP9ICV.d
Acq: 5 Dec 2018 9:05 am

Tgt Ion:237 Resp: 23284

Ion	Ratio	Lower	Upper
237	100		
142	100.0	66.1	99.1#
214	75.7	56.3	84.5

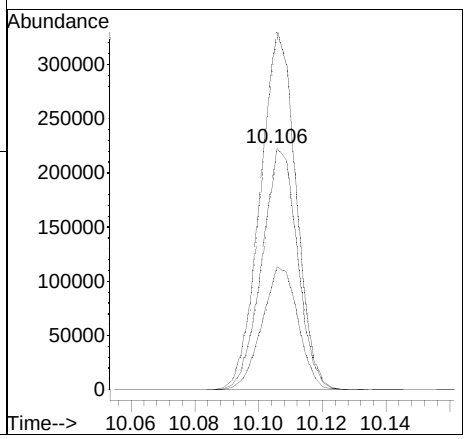




#98
Diphenamid
Concen: 55.21 ug/ml
RT: 10.106 min Scan# 2963
Delta R.T. 0.003 min
Lab File: AP9ICV.d
Acq: 5 Dec 2018 9:05 am

Tgt Ion:167 Resp: 171383

Ion	Ratio	Lower	Upper
167	100		
72	149.4	108.1	162.1
165	51.7	41.1	61.7



Manual Integration Report

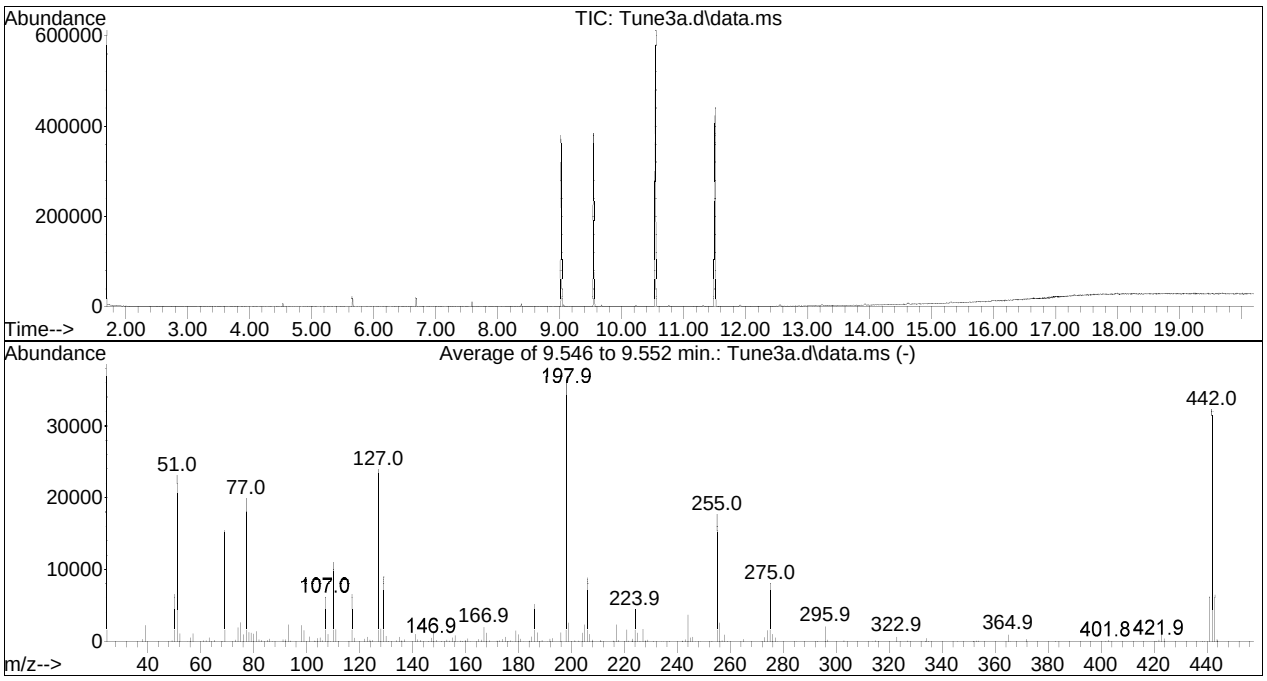
Data Path	: I:\8270\SV103\181204nical\	QMethod	: FS181204nSV103.m
Data File	: AP9ICV.d	Operator	: SV103:cb
Date Inj'd	: 12/5/2018 9:05 am	Instrument	: SV103
Sample	: CQICV2,32,,AP9 ICV Lot#779	Quant Date	: 12/5/2018 12:15 pm

There are no manual integrations or false positives in this file.

Data Path : I:\8270\SV103\181204nical\
Data File : Tune3a.d
Acq On : 5 Dec 2018 7:59 pm
Operator : SV103:cb
Sample : Tune3
Misc : wg1186012,,
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Thu Dec 06 08:19:43 2018



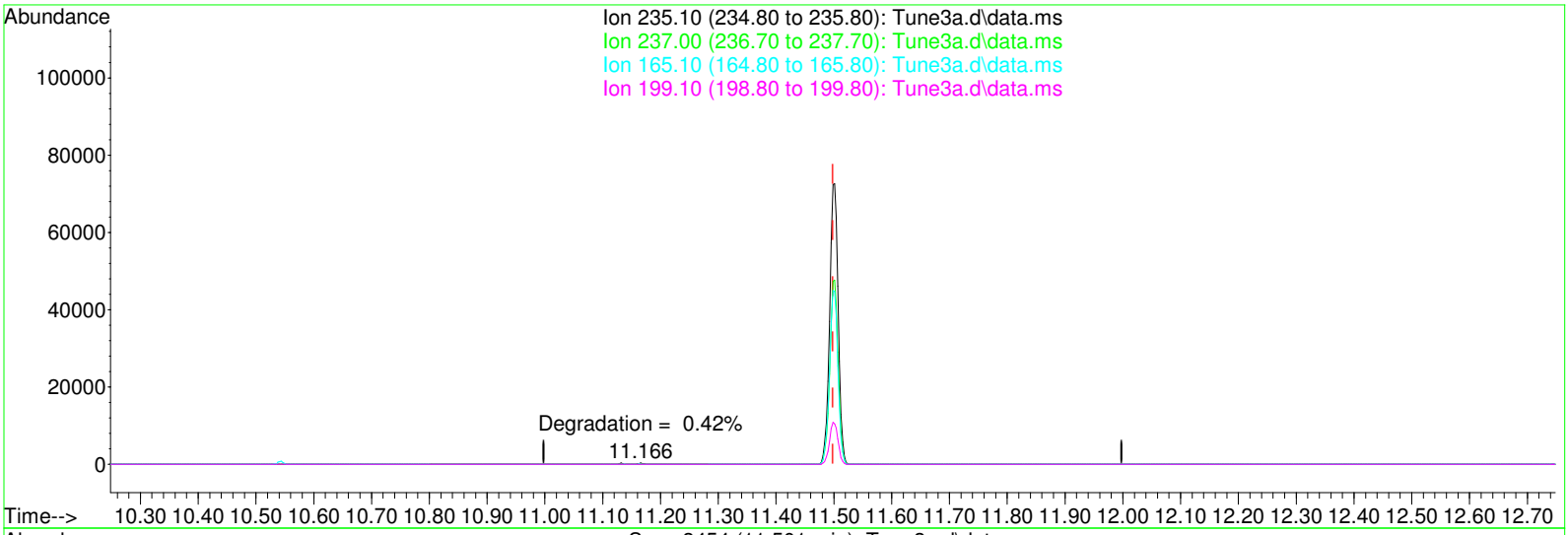
Spectrum Information: Average of 9.546 to 9.552 min.

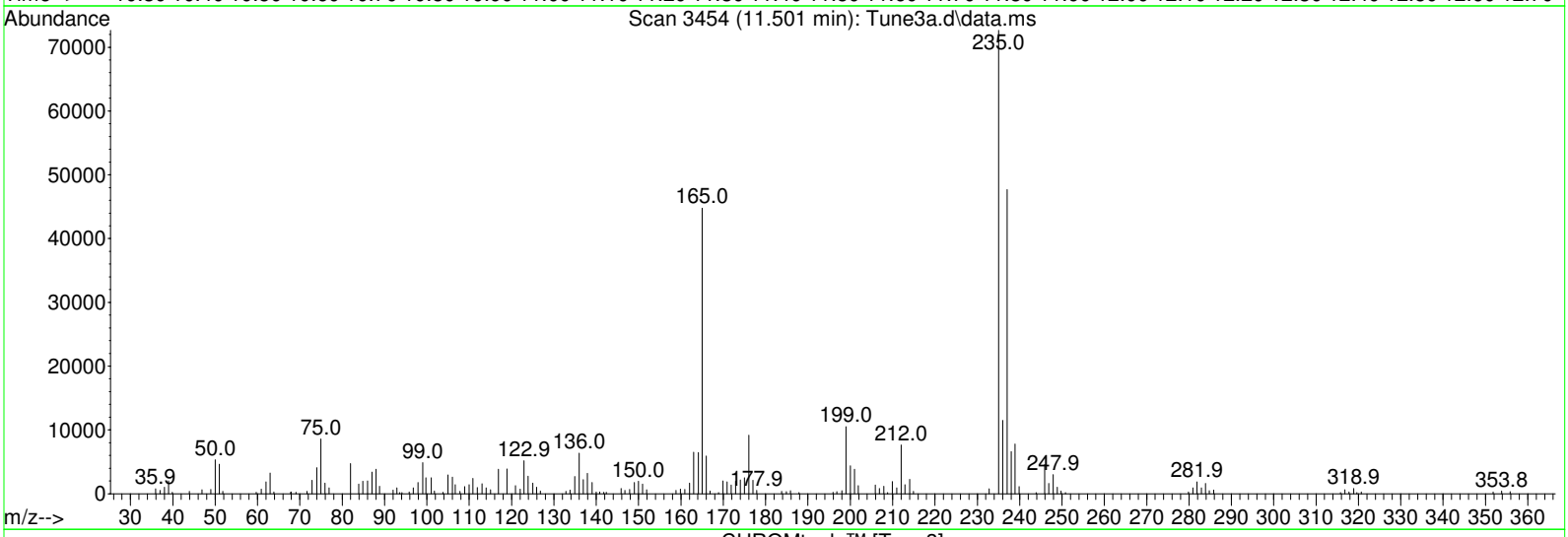
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	62.8	23051	PASS
68	69	0.00	2	0.8	119	PASS
70	69	0.00	2	0.0	0	PASS
127	198	10	80	65.0	23864	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	36715	PASS
199	198	5	9	7.0	2587	PASS
275	198	10	60	21.8	8014	PASS
365	198	1	100	2.7	974	PASS
441	442	0.01	24	19.2	6198	PASS
442	198	50	100	88.0	32296	PASS
443	442	15	24	19.9	6417	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV103\181204nical\
Data File : Tune3a.d
Acq On : 5 Dec 2018 7:59 pm
Operator : SV103:cb
Sample : Tune3
Misc : wg1186012,,
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Dec 06 10:55:11 2018
Quant Method : I:\8270\SV103\181204nical\dftppSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Nov 07 09:14:14 2017
Response via : Initial Calibration





CHROMtools™ [Tune3]

(6) ddt (T)

11.501min (+ 0.003) 0.00

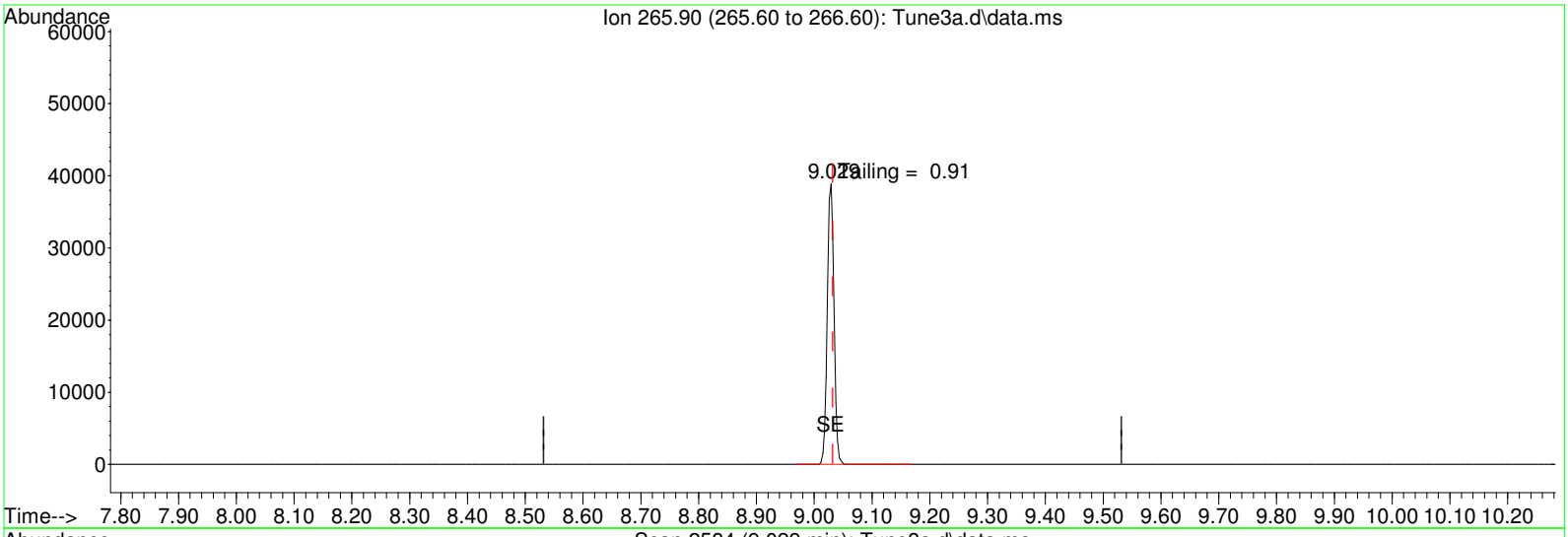
response 74710

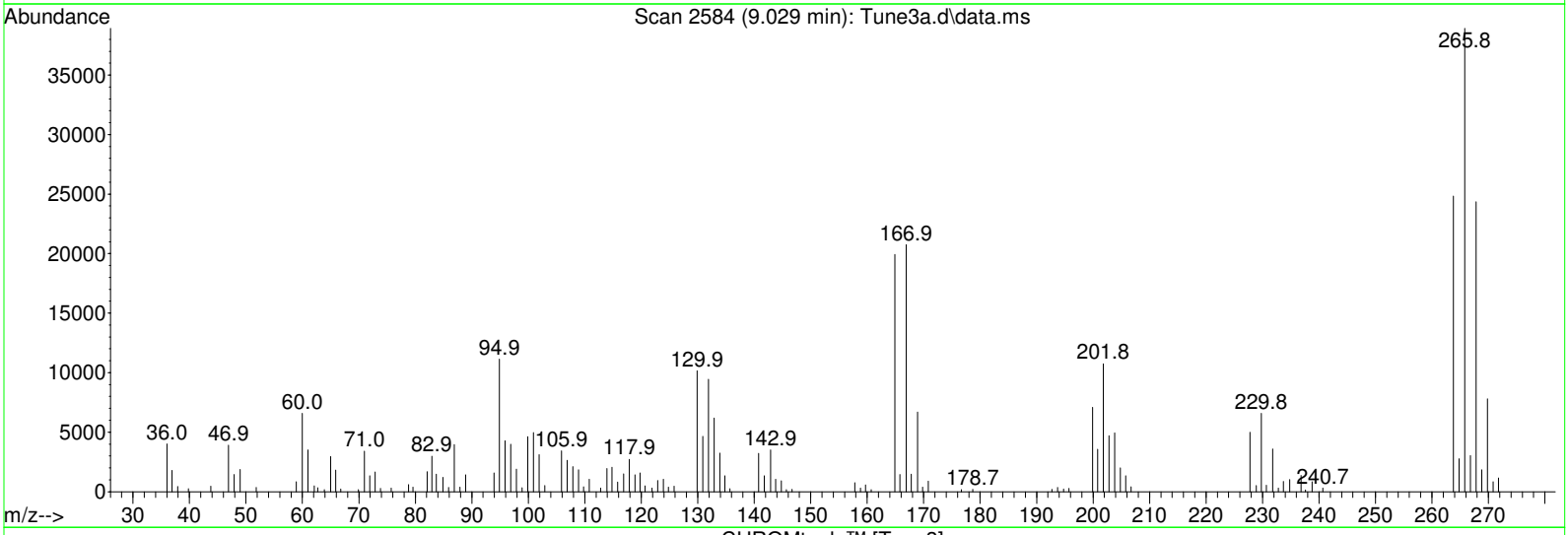
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	62.40	64.16
165.10	55.50	61.14
199.10	14.50	15.06

Quantitation Report (Qedit)

Data Path : I:\8270\SV103\181204nical\
Data File : Tune3a.d
Acq On : 5 Dec 2018 7:59 pm
Operator : SV103:cb
Sample : Tune3
Misc : wg1186012,,
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Dec 06 10:55:11 2018
Quant Method : I:\8270\SV103\181204nical\dftppSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Nov 07 09:14:14 2017
Response via : Initial Calibration





CHROMtools™ [Tune3]

(1) pentachlorophenol (T)

9.029min (-0.003) 0.00

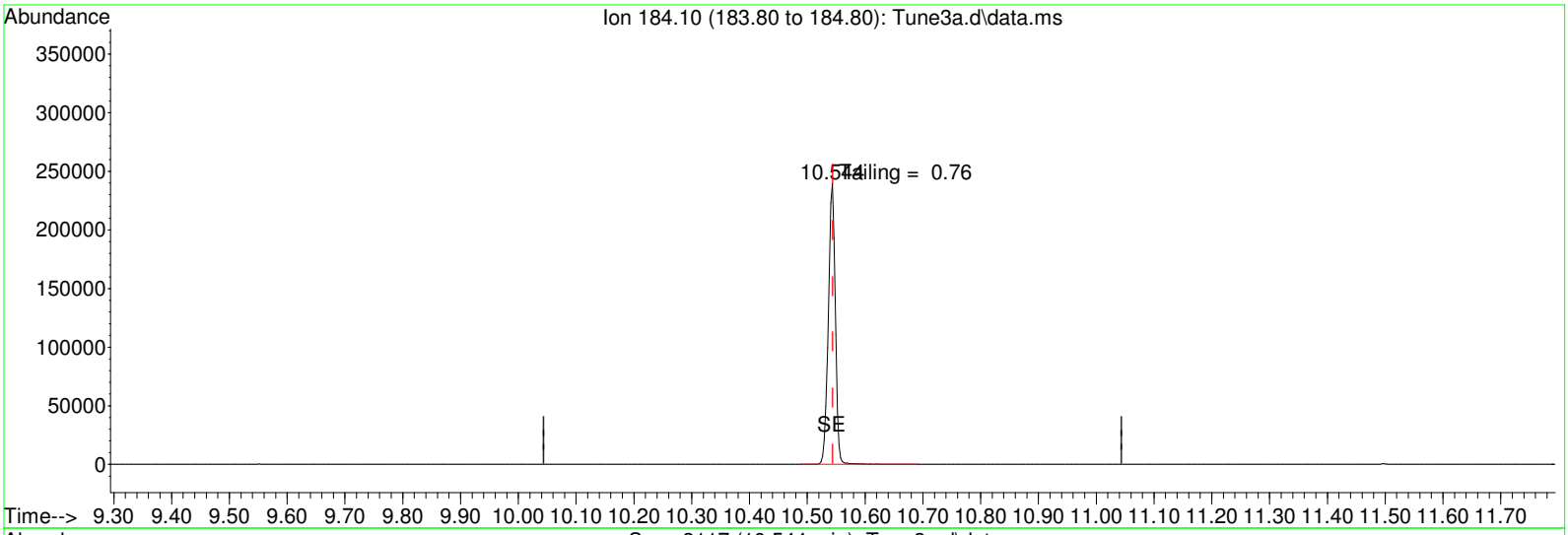
response 31418

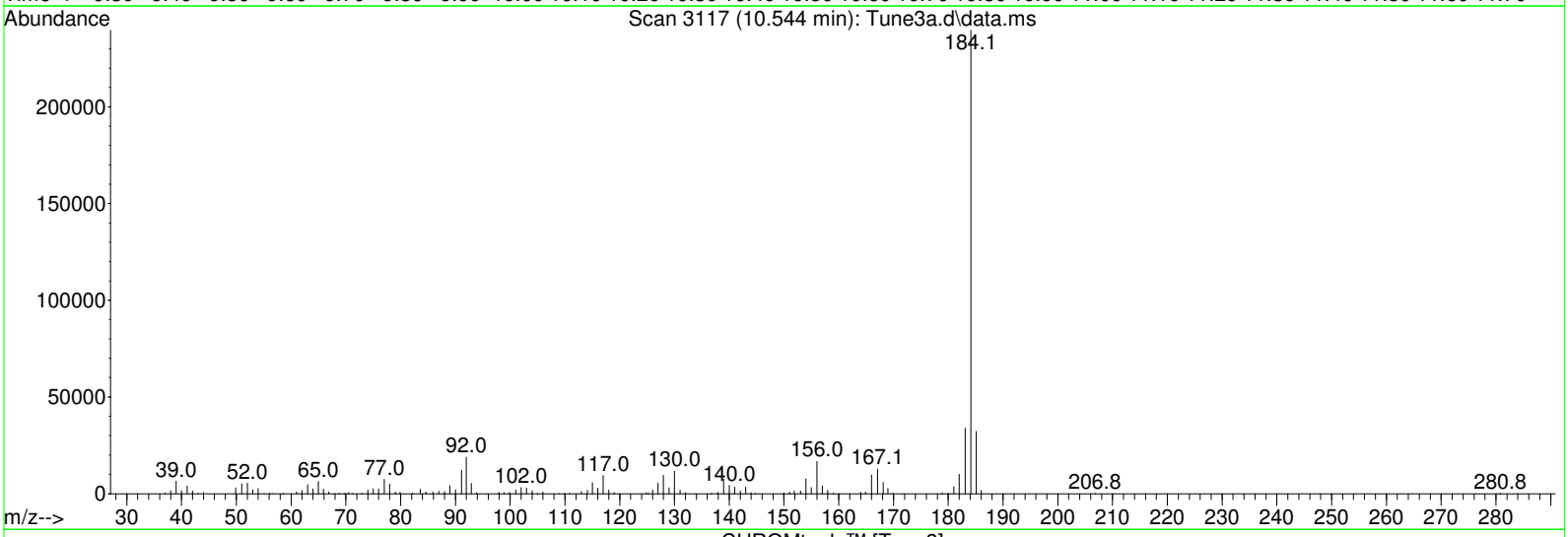
Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV103\181204nical\
Data File : Tune3a.d
Acq On : 5 Dec 2018 7:59 pm
Operator : SV103:cb
Sample : Tune3
Misc : wg1186012,,
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Dec 06 10:55:11 2018
Quant Method : I:\8270\SV103\181204nical\dftppSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Nov 07 09:14:14 2017
Response via : Initial Calibration





CHROMtools™ [Tune3]

(3) benzidine (T)

10.544min (-0.000) 0.00

response 202310

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181204nical\
Data File : ADPL10r.d
Acq On : 5 Dec 2018 8:24 pm
Operator : SV103:cb
Sample : IL21,32,,ADPL200 Lot#7810
Misc : wg1186012,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 06 08:10:21 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 17:24:46 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\181204nical\ADPL7r.d
Sub List : ADPical - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.801	152	60566	40.000	ug/ml	0.00
Standard Area 1 = 54139			Recovery = 111.87%			
85) IS3_Acenaphthene-d10	7.756	164	117595	40.000	ug/ml	0.00
Standard Area 1 = 105982			Recovery = 110.96%			
99) IS3_Phenanthrene-d10	9.194	188	213561	40.000	ug/ml	# 0.00
Standard Area 1 = 202030			Recovery = 105.71%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	4.684	57	303052	89.669	ug/ml	# 48
86) Atrazine	8.978	200	215494	213.019	ug/ml	99
100) n-Octadecane	9.165	57	484938	112.102	ug/ml	# 71
101) Parathion	9.987	109	195580	176.681	ug/ml	94
102) 3,3'-Dimethylbenzidine	11.373	212	895796	221.895	ug/ml	98

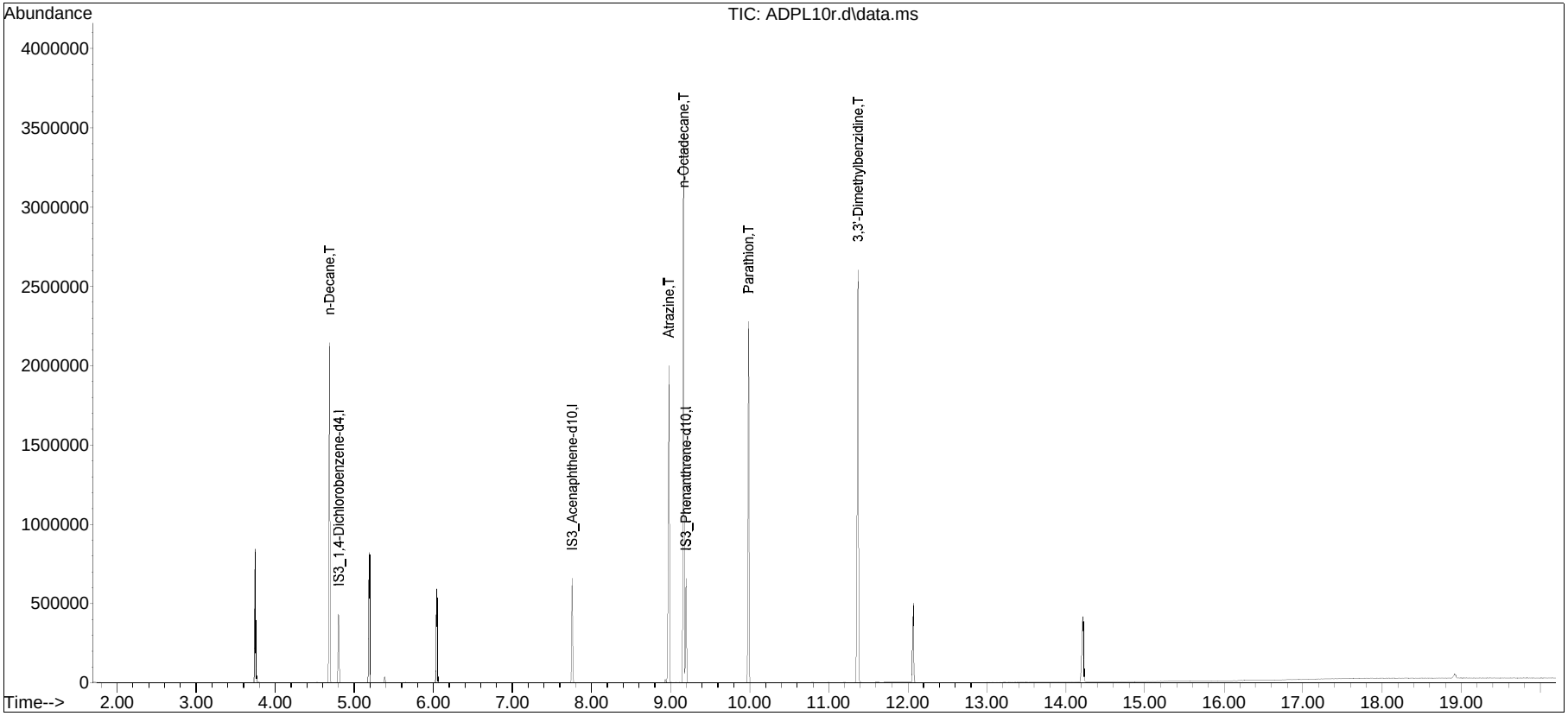
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181204nical\
Data File : ADPL10r.d
Acq On : 5 Dec 2018 8:24 pm
Operator : SV103:cb
Sample : IL21,32,,ADPL200 Lot#7810
Misc : wg1186012,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 06 08:10:21 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 17:24:46 2018
Response via : Initial Calibration

Sub List : ADPical - ADP sublist204nical\ADPL7r.d•



Manual Integration Report

Data Path	: I:\8270\SV103\181204nical\	QMethod	: FS181204nSV103.m
Data File	: ADPL10r.d	Operator	: SV103:cb
Date Inj'd	: 12/5/2018 8:24 pm	Instrument	: SV103
Sample	: IL21,32,,ADPL200 Lot#7810	Quant Date	: 12/6/2018 8:07 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181204nical\
Data File : ADPL9r.d
Acq On : 5 Dec 2018 8:49 pm
Operator : SV103:cb
Sample : IL22,32,,ADPL150 Lot#7819
Misc : wg1186012,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 06 08:18:55 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 17:24:46 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\181204nical\ADPL7r.d
Sub List : ADPical - ADP sublist

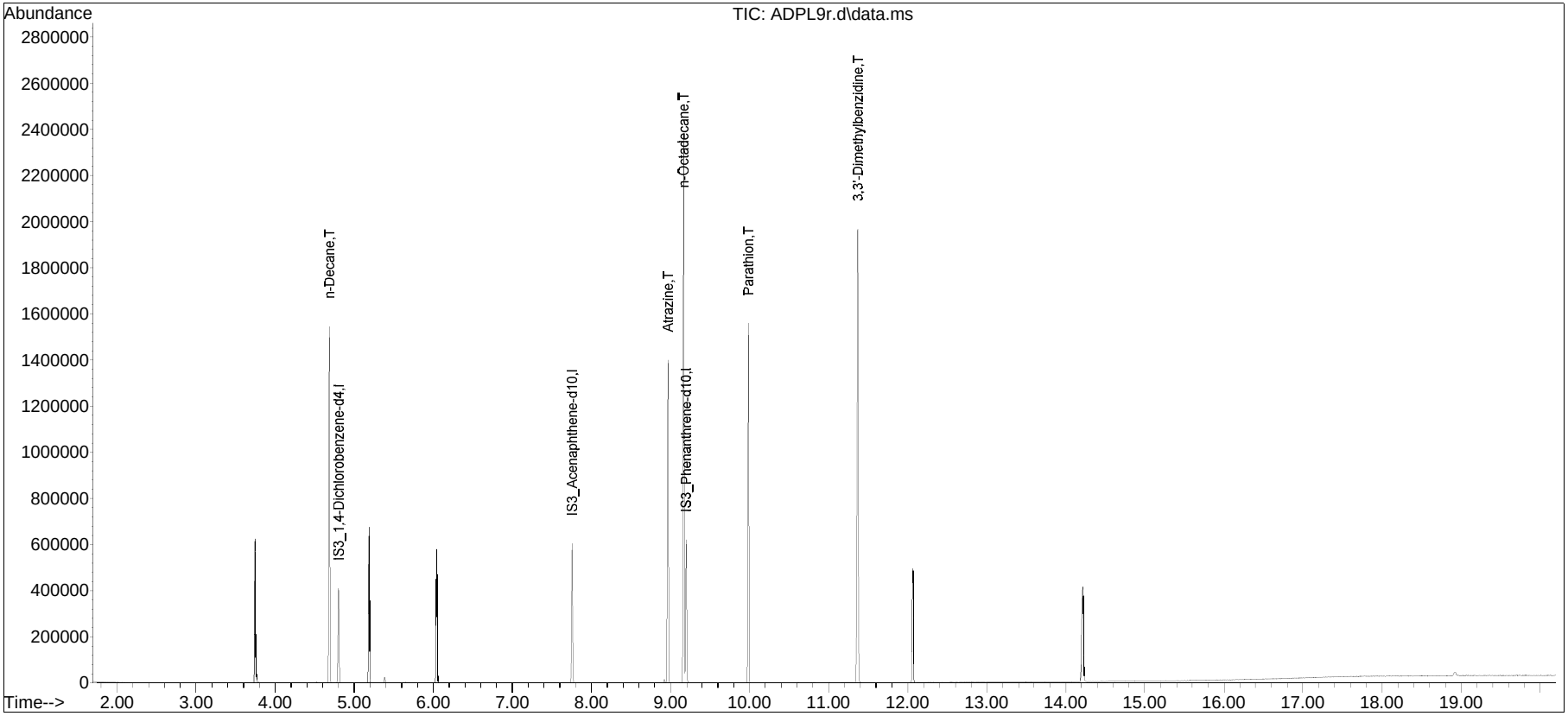
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.801	152	57261	40.000	ug/ml	0.00
Standard Area 1 = 54139			Recovery = 105.77%			
85) IS3_Acenaphthene-d10	7.756	164	107621	40.000	ug/ml	0.00
Standard Area 1 = 105982			Recovery = 101.55%			
99) IS3_Phenanthrene-d10	9.194	188	203218	40.000	ug/ml	# 0.00
Standard Area 1 = 202030			Recovery = 100.59%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	4.685	57	218129	68.267	ug/ml#	51
86) Atrazine	8.972	200	145183	156.816	ug/ml	97
100) n-Octadecane	9.163	57	326786	79.387	ug/ml#	71
101) Parathion	9.984	109	128828	133.208	ug/ml	94
102) 3,3'-Dimethylbenzidine	11.371	212	636208	165.614	ug/ml	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\8270\SV103\181204nical\
Data File : ADPL9r.d
Acq On : 5 Dec 2018 8:49 pm
Operator : SV103:cb
Sample : IL22,32,,ADPL150 Lot#7819
Misc : wg1186012,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 06 08:18:55 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 17:24:46 2018
Response via : Initial Calibration

Sub List : ADPical - ADP sublist204nical\ADPL7r.d•



Manual Integration Report

Data Path	: I:\8270\SV103\181204nical\	QMethod	: FS181204nSV103.m
Data File	: ADPL9r.d	Operator	: SV103:cb
Date Inj'd	: 12/5/2018 8:49 pm	Instrument	: SV103
Sample	: IL22,32,,ADPL150 Lot#7819	Quant Date	: 12/6/2018 8:08 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181204nical\
Data File : ADPL8r.d
Acq On : 5 Dec 2018 9:15 pm
Operator : SV103:cb
Sample : IL23,32,,ADPL100 Lot#7818
Misc : wg1186012,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 06 08:18:30 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 17:24:46 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\181204nical\ADPL7r.d
Sub List : ADPical - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.801	152	56326	40.000	ug/ml	0.00
Standard Area 1 = 54139			Recovery = 104.04%			
85) IS3_Acenaphthene-d10	7.756	164	103642	40.000	ug/ml	0.00
Standard Area 1 = 105982			Recovery = 97.79%			
99) IS3_Phenanthrene-d10	9.194	188	197504	40.000	ug/ml	# 0.00
Standard Area 1 = 202030			Recovery = 97.76%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	4.685	57	141212	44.928	ug/ml	# 50
86) Atrazine	8.969	200	90066	101.018	ug/ml	99
100) n-Octadecane	9.163	57	206496	51.616	ug/ml	# 71
101) Parathion	9.981	109	75729	88.800	ug/ml	92
102) 3,3'-Dimethylbenzidine	11.365	212	377011	100.981	ug/ml	97

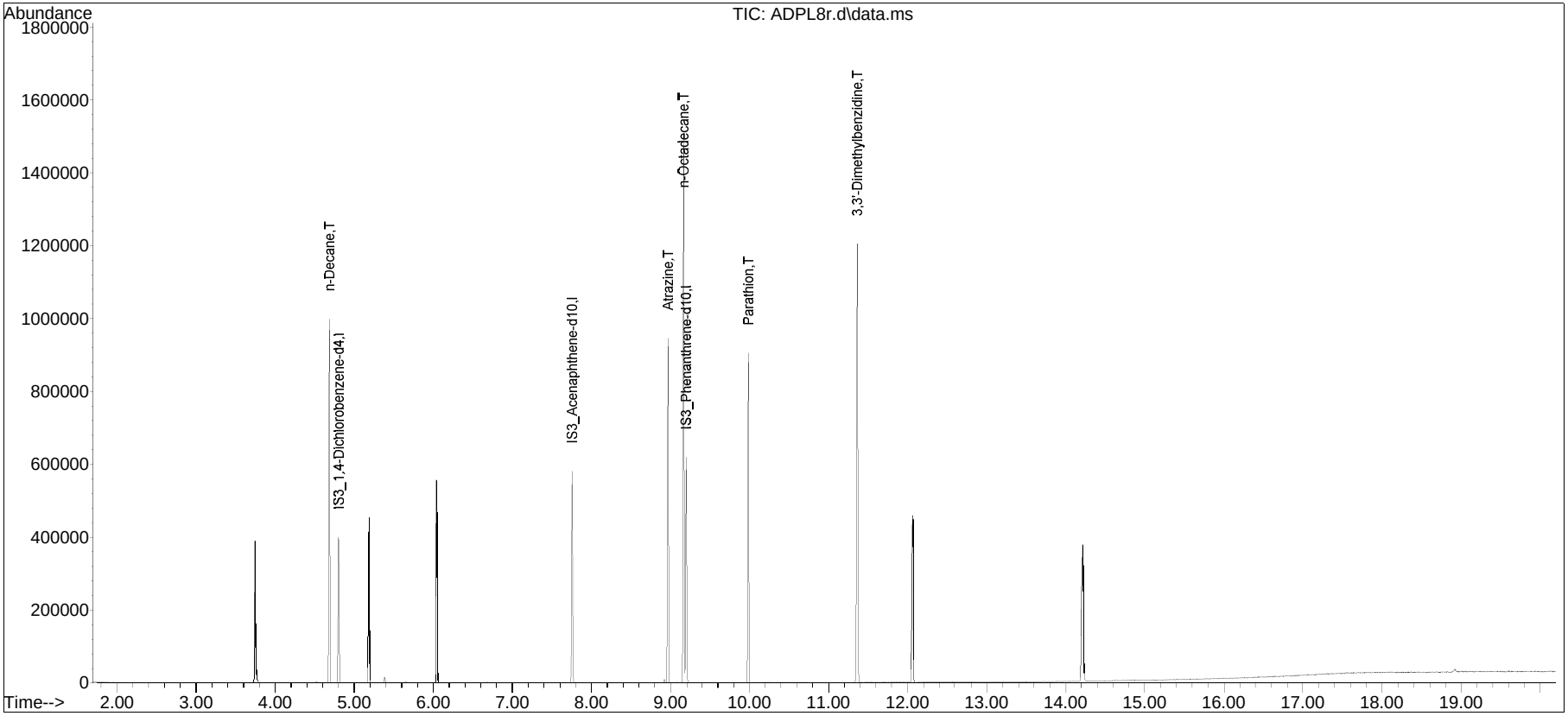
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181204nical\
Data File : ADPL8r.d
Acq On : 5 Dec 2018 9:15 pm
Operator : SV103:cb
Sample : IL23,32,,ADPL100 Lot#7818
Misc : wg1186012,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 06 08:18:30 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 17:24:46 2018
Response via : Initial Calibration

Sub List : ADPical - ADP sublist204nical\ADPL7r.d•



Manual Integration Report

Data Path	: I:\8270\SV103\181204nical\	QMethod	: FS181204nSV103.m
Data File	: ADPL8r.d	Operator	: SV103:cb
Date Inj'd	: 12/5/2018 9:15 pm	Instrument	: SV103
Sample	: IL23,32,,ADPL100 Lot#7818	Quant Date	: 12/6/2018 8:08 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181204nical\
Data File : ADPL7r.d
Acq On : 5 Dec 2018 9:41 pm
Operator : SV103:cb
Sample : IL24,32,,ADPL50 Lot#7817
Misc : wg1186012,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 06 08:17:57 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 08:17:35 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\181204nical\ADPL7r.d
Sub List : ADPical - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.801	152	54139	40.000	ug/ml	0.00
Standard Area 1 = 54139			Recovery = 100.00%			
85) IS3_Acenaphthene-d10	7.756	164	105982	40.000	ug/ml	0.00
Standard Area 1 = 105982			Recovery = 100.00%			
99) IS3_Phenanthrene-d10	9.194	188	202030	40.000	ug/ml	# 0.00
Standard Area 1 = 202030			Recovery = 100.00%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	4.682	57	66703	36.777	ug/ml	# 50
86) Atrazine	8.967	200	42475	50.491	ug/ml	97
100) n-Octadecane	9.160	57	97474	37.399	ug/ml	# 68
101) Parathion	9.981	109	32564	40.766	ug/ml	94
102) 3,3'-Dimethylbenzidine	11.362	212	175418	49.953	ug/ml	97

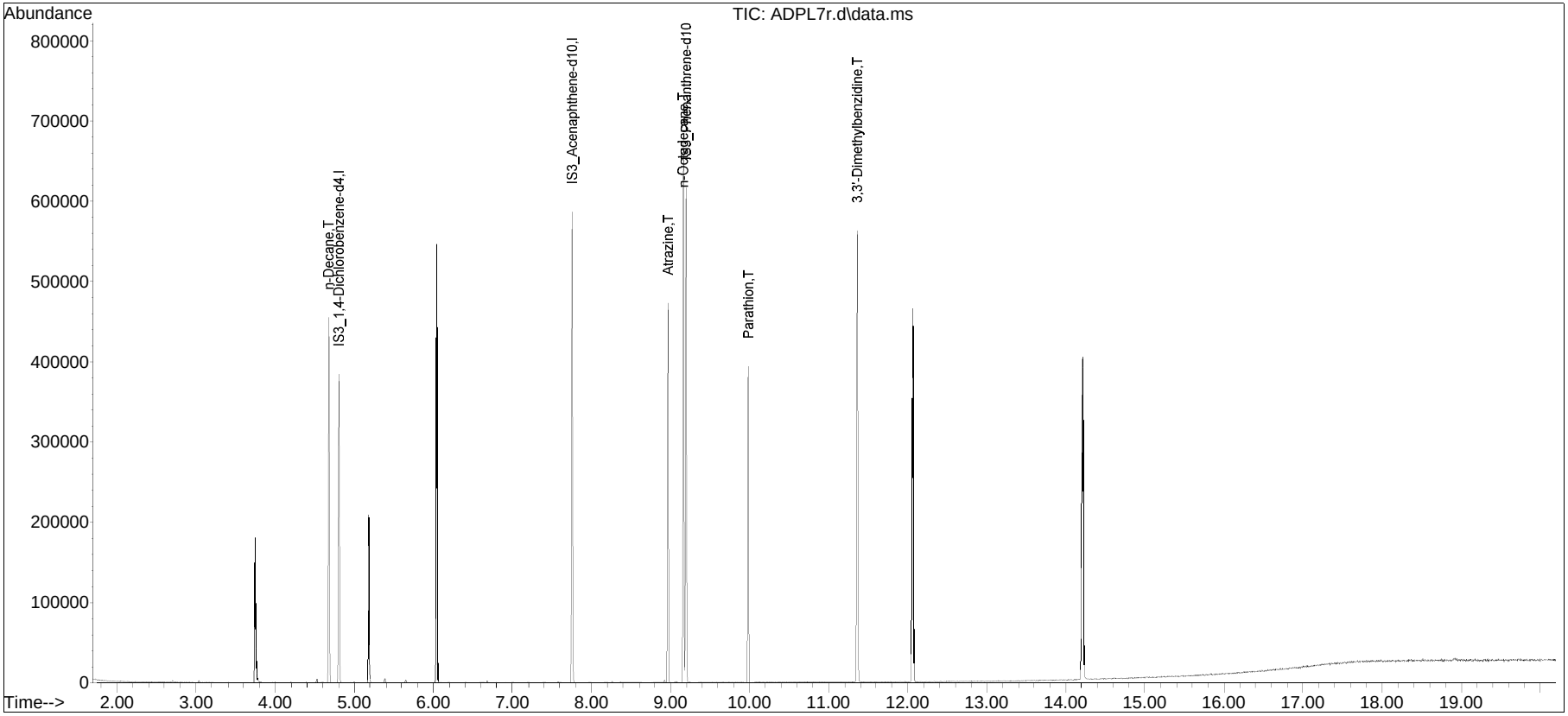
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181204nical\
Data File : ADPL7r.d
Acq On : 5 Dec 2018 9:41 pm
Operator : SV103:cb
Sample : IL24,32,,ADPL50 Lot#7817
Misc : wg1186012,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 06 08:17:57 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 08:17:35 2018
Response via : Initial Calibration

Sub List : ADPical - ADP sublist204nical\ADPL7r.d•



Manual Integration Report

Data Path	: I:\8270\SV103\181204nical\	QMethod	: FS181204nSV103.m
Data File	: ADPL7r.d	Operator	: SV103:cb
Date Inj'd	: 12/5/2018 9:41 pm	Instrument	: SV103
Sample	: IL24,32,,ADPL50 Lot#7817	Quant Date	: 12/6/2018 8:17 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181204nical\
Data File : ADPL6r.d
Acq On : 5 Dec 2018 10:06 pm
Operator : SV103:cb
Sample : IL25,32,,ADPL20 Lot#7816
Misc : wg1186012,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 06 08:17:25 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 17:24:46 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\181204nical\ADPL7r.d
Sub List : ADPical - ADP sublist

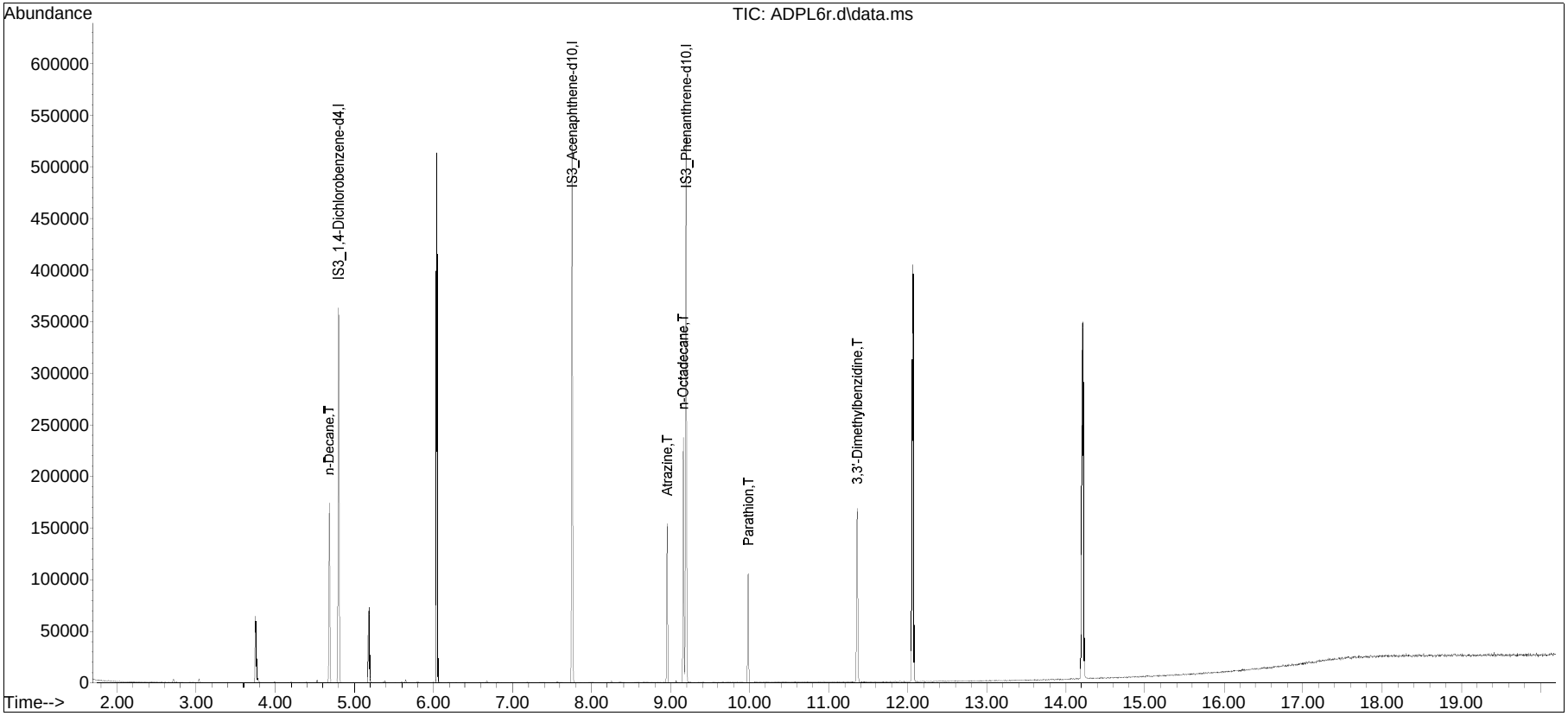
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
32) IS3_1,4-Dichlorobenzen...	4.801	152	51494	40.000 ug/ml	0.00
Standard Area 1 = 54139			Recovery =	95.11%	
85) IS3_Acenaphthene-d10	7.756	164	94265	40.000 ug/ml	0.00
Standard Area 1 = 105982			Recovery =	88.94%	
99) IS3_Phenanthrene-d10	9.194	188	177659	40.000 ug/ml	# 0.00
Standard Area 1 = 202030			Recovery =	87.94%	
System Monitoring Compounds					
Target Compounds					Qvalue
33) n-Decane	4.682	57	25202	8.771 ug/ml#	47
86) Atrazine	8.964	200	14637	18.050 ug/ml	99
100) n-Octadecane	9.160	57	33706	9.366 ug/ml#	69
101) Parathion	9.981	109	9300	15.419 ug/ml	97
102) 3,3'-Dimethylbenzidine	11.362	212	55440	16.508 ug/ml	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\8270\SV103\181204nical\
Data File : ADPL6r.d
Acq On : 5 Dec 2018 10:06 pm
Operator : SV103:cb
Sample : IL25,32,,ADPL20 Lot#7816
Misc : wg1186012,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 06 08:17:25 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 17:24:46 2018
Response via : Initial Calibration

Sub List : ADPical - ADP sublist204nical\ADPL7r.d•



Manual Integration Report

Data Path	: I:\8270\SV103\181204nical\	QMethod	: FS181204nSV103.m
Data File	: ADPL6r.d	Operator	: SV103:cb
Date Inj'd	: 12/5/2018 10:06 pm	Instrument	: SV103
Sample	: IL25,32,,ADPL20 Lot#7816	Quant Date	: 12/6/2018 8:08 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181204nical\
Data File : ADPL5r.d
Acq On : 5 Dec 2018 10:32 pm
Operator : SV103:cb
Sample : IL26,32,,ADPL10 Lot#7815
Misc : wg1186012,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 06 08:16:40 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 17:24:46 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\181204nical\ADPL7r.d
Sub List : ADPical - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.801	152	58539	40.000	ug/ml	# 0.00
Standard Area 1 = 54139			Recovery = 108.13%			
85) IS3_Acenaphthene-d10	7.753	164	107397	40.000	ug/ml	0.00
Standard Area 1 = 105982			Recovery = 101.34%			
99) IS3_Phenanthrene-d10	9.194	188	198366	40.000	ug/ml	# 0.00
Standard Area 1 = 202030			Recovery = 98.19%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	4.682	57	13766	4.214	ug/ml#	47
86) Atrazine	8.964	200	7757	8.396	ug/ml	98
100) n-Octadecane	9.160	57	18272	4.547	ug/ml#	66
101) Parathion	9.978	109	4845	7.947	ug/ml	94
102) 3,3'-Dimethylbenzidine	11.359	212	28798	7.680	ug/ml	97

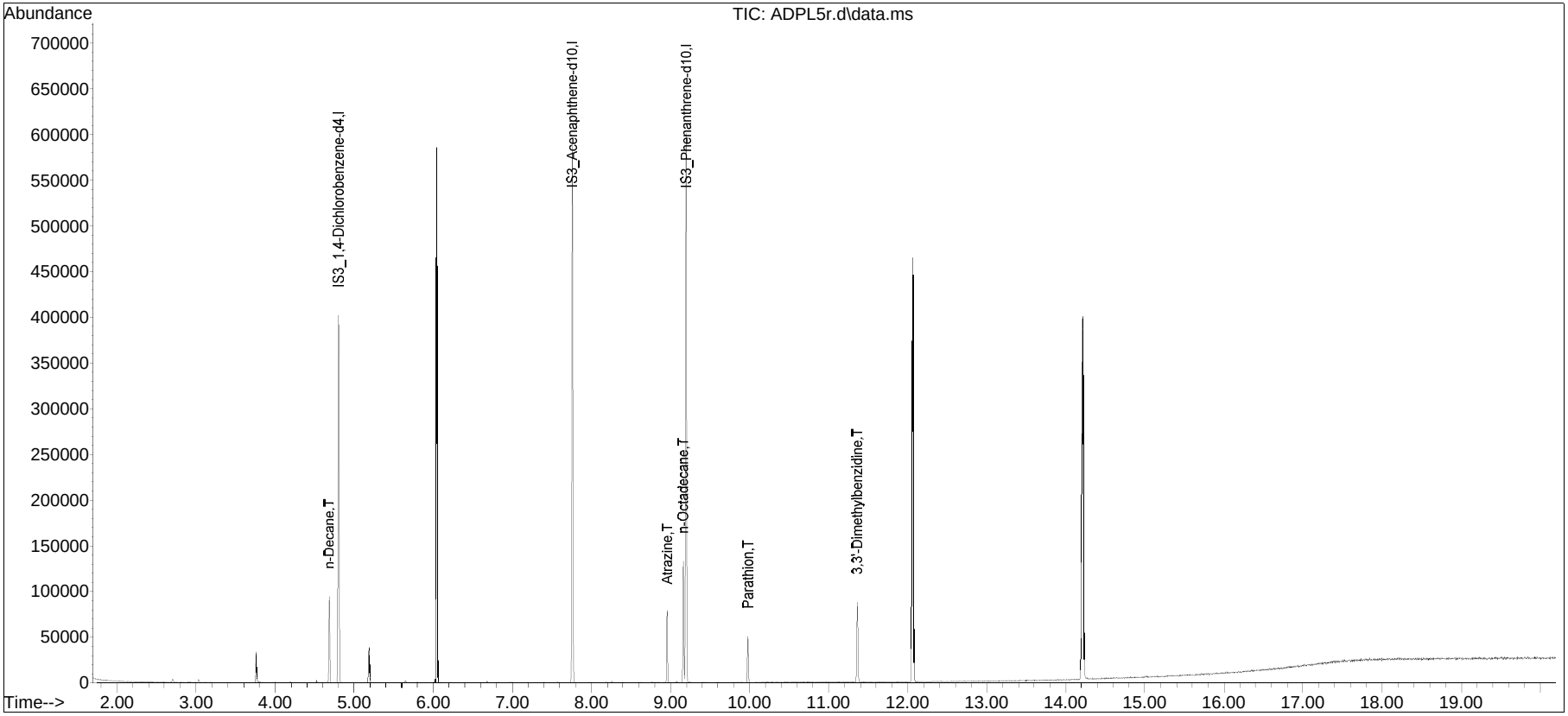
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181204nical\
Data File : ADPL5r.d
Acq On : 5 Dec 2018 10:32 pm
Operator : SV103:cb
Sample : IL26,32,,ADPL10 Lot#7815
Misc : wg1186012,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 06 08:16:40 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 17:24:46 2018
Response via : Initial Calibration

Sub List : ADPical - ADP sublist204nical\ADPL7r.d•



Manual Integration Report

Data Path	: I:\8270\SV103\181204nical\	QMethod	: FS181204nSV103.m
Data File	: ADPL5r.d	Operator	: SV103:cb
Date Inj'd	: 12/5/2018 10:32 pm	Instrument	: SV103
Sample	: IL26,32,,ADPL10 Lot#7815	Quant Date	: 12/6/2018 8:08 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181204nical\
Data File : ADPL4r.d
Acq On : 5 Dec 2018 10:57 pm
Operator : SV103:cb
Sample : IL27,32,,ADPL5 Lot#7814
Misc : wg1186012,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 06 08:16:07 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 17:24:46 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\181204nical\ADPL7r.d
Sub List : ADPical - ADP sublist

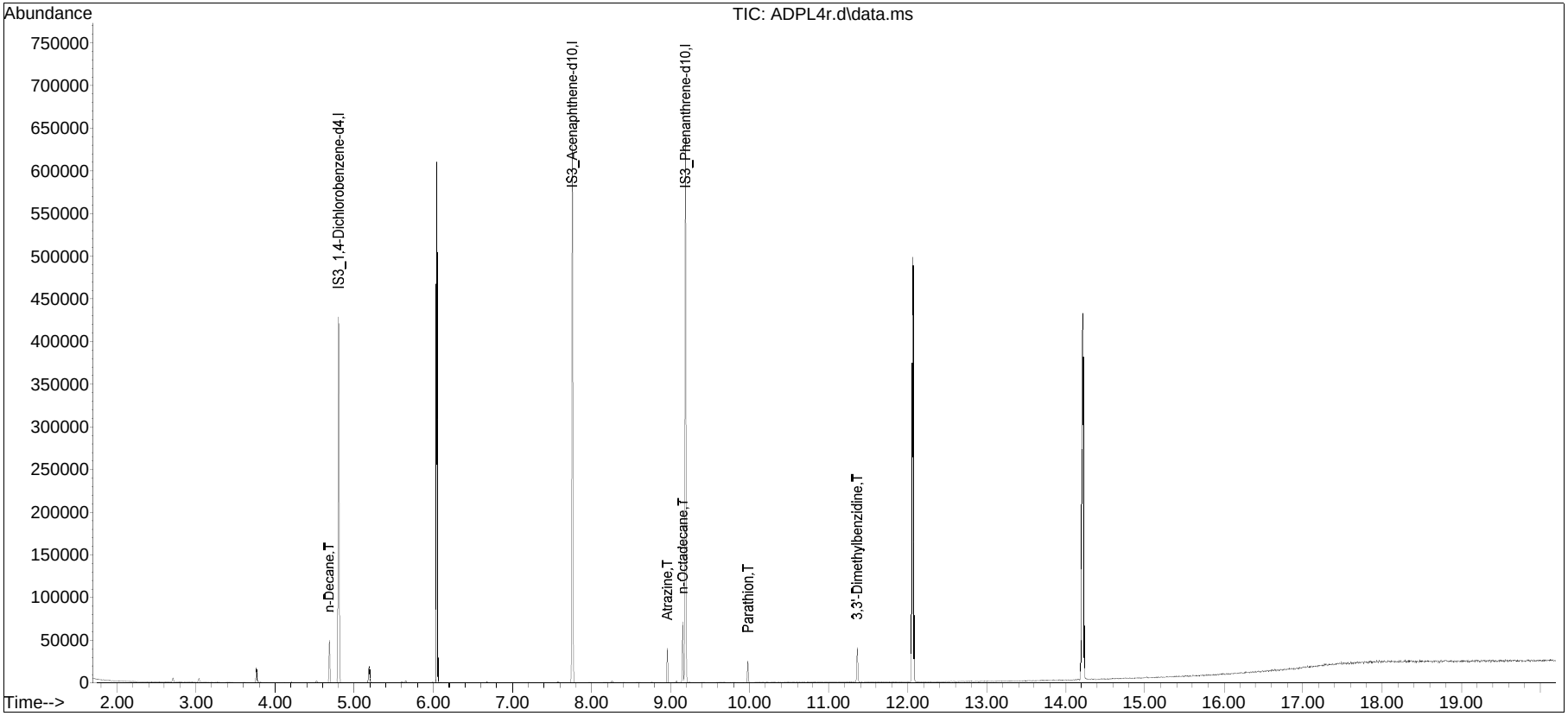
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.801	152	60955	40.000	ug/ml	0.00
Standard Area 1 = 54139			Recovery = 112.59%			
85) IS3_Acenaphthene-d10	7.753	164	116018	40.000	ug/ml	0.00
Standard Area 1 = 105982			Recovery = 109.47%			
99) IS3_Phenanthrene-d10	9.191	188	215834	40.000	ug/ml #	0.00
Standard Area 1 = 202030			Recovery = 106.83%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	4.682	57	7032	2.067	ug/ml#	37
86) Atrazine	8.961	200	4020	4.028	ug/ml	98
100) n-Octadecane	9.160	57	9877	2.259	ug/ml#	69
101) Parathion	9.978	109	2382	4.258	ug/ml#	94
102) 3,3'-Dimethylbenzidine	11.359	212	13991	3.429	ug/ml	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\8270\SV103\181204nical\
Data File : ADPL4r.d
Acq On : 5 Dec 2018 10:57 pm
Operator : SV103:cb
Sample : IL27,32,,ADPL5 Lot#7814
Misc : wg1186012,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 06 08:16:07 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 17:24:46 2018
Response via : Initial Calibration

Sub List : ADPical - ADP sublist204nical\ADPL7r.d•



Manual Integration Report

Data Path	: I:\8270\SV103\181204nical\	QMethod	: FS181204nSV103.m
Data File	: ADPL4r.d	Operator	: SV103:cb
Date Inj'd	: 12/5/2018 10:57 pm	Instrument	: SV103
Sample	: IL27,32,,ADPL5 Lot#7814	Quant Date	: 12/6/2018 8:08 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181204nical\
Data File : ADPL3r.d
Acq On : 5 Dec 2018 11:23 pm
Operator : SV103:cb
Sample : IL28,32,,ADPL3 Lot#7813
Misc : wg1186012,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 06 08:13:35 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 17:24:46 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\181204nical\ADPL7r.d
Sub List : ADPical - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.801	152	52288	40.000	ug/ml	0.00
Standard Area 1 = 54139			Recovery =	96.58%		
85) IS3_Acenaphthene-d10	7.753	164	96854	40.000	ug/ml	0.00
Standard Area 1 = 105982			Recovery =	91.39%		
99) IS3_Phenanthrene-d10	9.194	188	183941	40.000	ug/ml	# 0.00
Standard Area 1 = 202030			Recovery =	91.05%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	4.682	57	3611	1.238	ug/ml	# 37
86) Atrazine	8.961	200	1997	2.397	ug/ml	# 38
100) n-Octadecane	9.160	57	4778	1.282	ug/ml	# 64
101) Parathion	9.981	109	1196	2.992	ug/ml	# 81
102) 3,3'-Dimethylbenzidine	11.359	212	7035	2.023	ug/ml	94

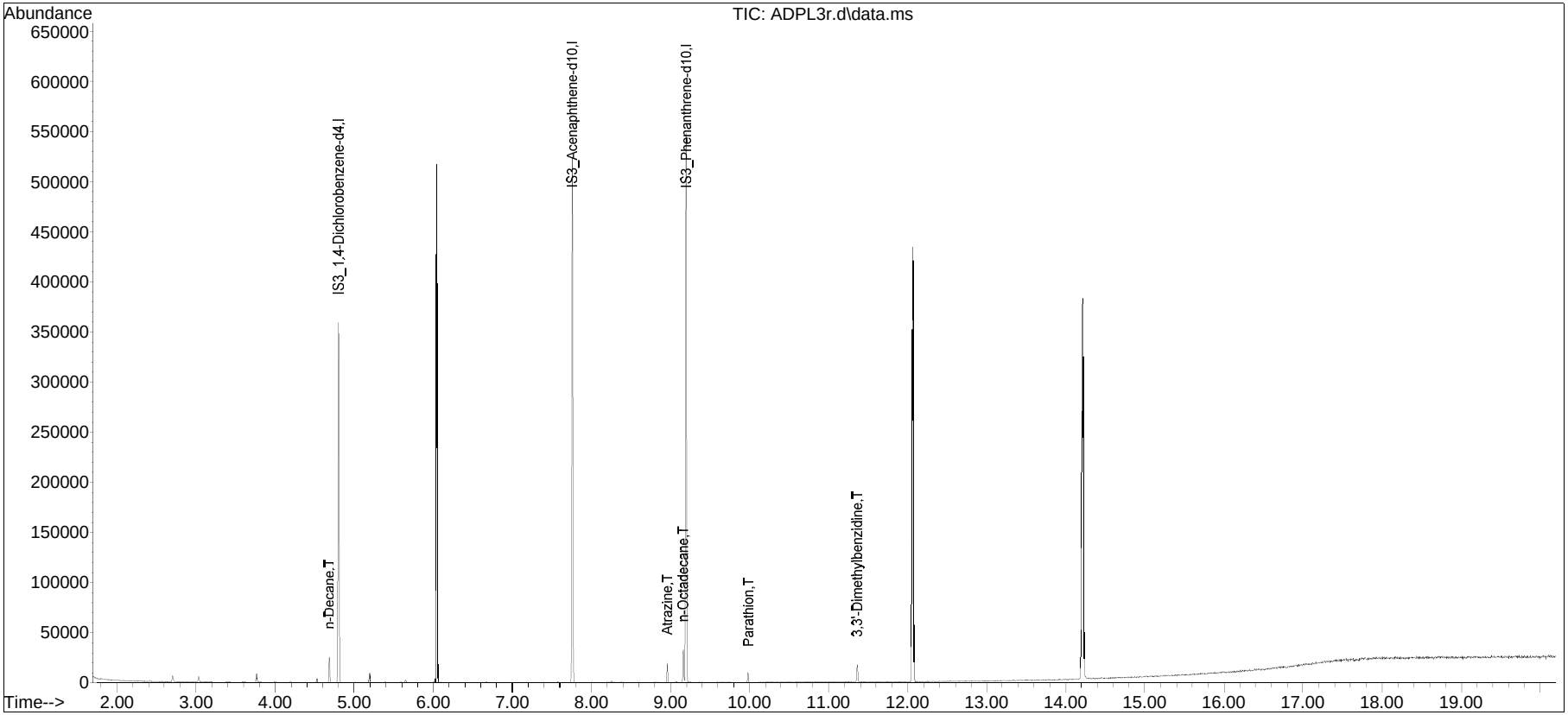
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181204nical\
Data File : ADPL3r.d
Acq On : 5 Dec 2018 11:23 pm
Operator : SV103:cb
Sample : IL28,32,,ADPL3 Lot#7813
Misc : wg1186012,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 06 08:13:35 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 17:24:46 2018
Response via : Initial Calibration

Sub List : ADPical - ADP sublist204nical\ADPL7r.d•



Manual Integration Report

Data Path	: I:\8270\SV103\181204nical\	QMethod	: FS181204nSV103.m
Data File	: ADPL3r.d	Operator	: SV103:cb
Date Inj'd	: 12/5/2018 11:23 pm	Instrument	: SV103
Sample	: IL28,32,,ADPL3 Lot#7813	Quant Date	: 12/6/2018 8:07 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181204nical\
Data File : ADPL2r.d
Acq On : 5 Dec 2018 11:48 pm
Operator : SV103:cb
Sample : IL29,32,,ADPL2 Lot#7812
Misc : wg1186012,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 06 08:12:17 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 17:24:46 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\181204nical\ADPL7r.d
Sub List : ADPical - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.801	152	47883	40.000	ug/ml	0.00
Standard Area 1 = 54139			Recovery =	88.44%		
85) IS3_Acenaphthene-d10	7.756	164	90257	40.000	ug/ml	0.00
Standard Area 1 = 105982			Recovery =	85.16%		
99) IS3_Phenanthrene-d10	9.194	188	169941	40.000	ug/ml	# 0.00
Standard Area 1 = 202030			Recovery =	84.12%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	4.682	57	2378	0.890	ug/ml#	40
86) Atrazine	8.961	200	1188	1.530	ug/ml#	38
100) n-Octadecane	9.160	57	3105	0.902	ug/ml#	63
101) Parathion	9.978	109	774M4	2.446	ug/ml	
102) 3,3'-Dimethylbenzidine	11.359	212	4054	1.262	ug/ml#	61

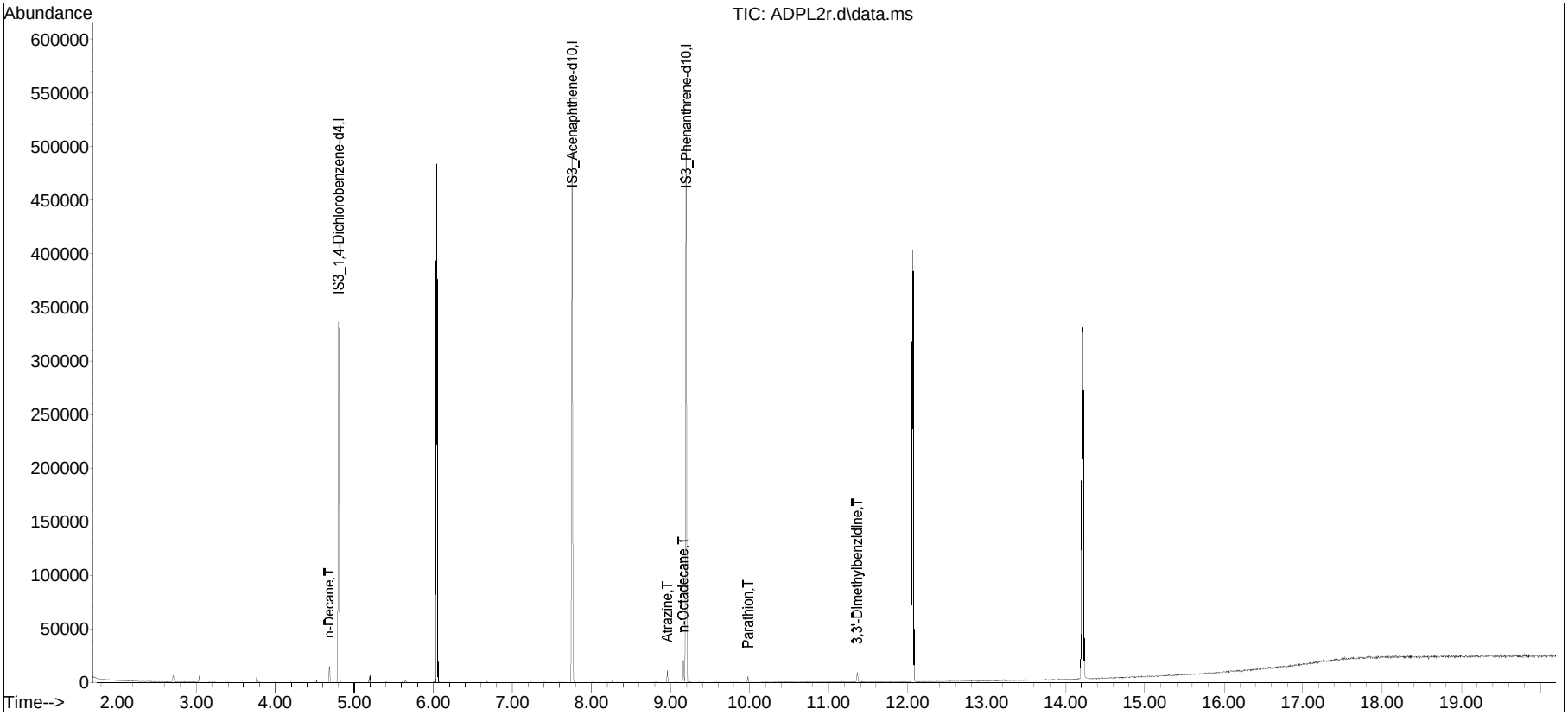
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181204nical\
Data File : ADPL2r.d
Acq On : 5 Dec 2018 11:48 pm
Operator : SV103:cb
Sample : IL29,32,,ADPL2 Lot#7812
Misc : wg1186012,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 06 08:12:17 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 17:24:46 2018
Response via : Initial Calibration

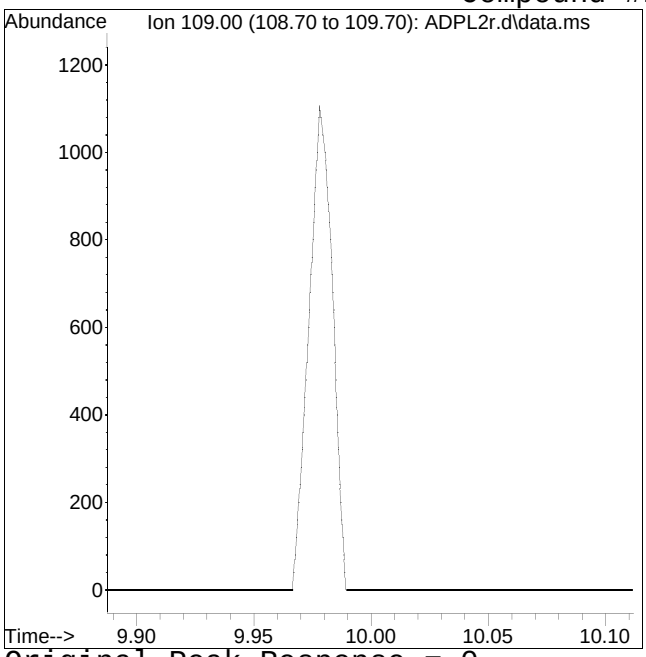
Sub List : ADPical - ADP sublist204nical\ADPL7r.d•



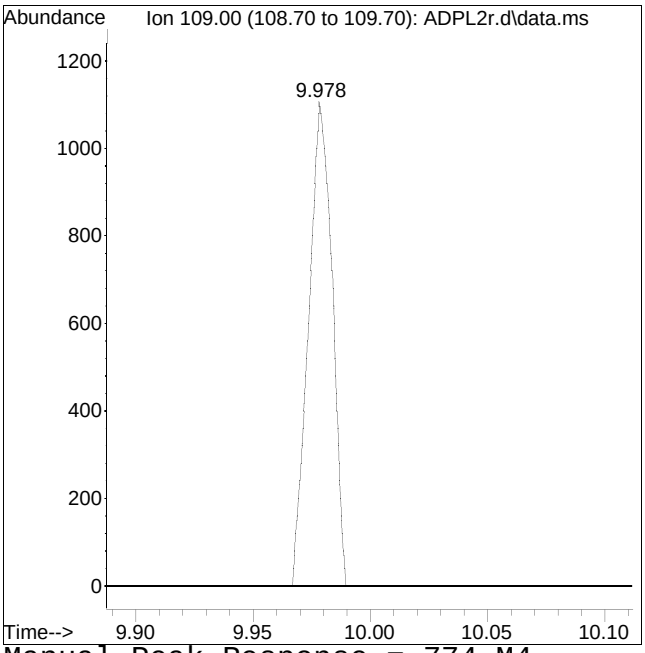
Manual Integration Report

Data Path : I:\8270\SV103\181204nical\QMethod : FS181204nSV103.m
Data File : ADPL2r.d Operator : SV103:cb
Date Inj'd : 12/5/2018 11:48 pm Instrument : SV103
Sample : IL29,32,,ADPL2 Lot#7812 Quant Date : 12/6/2018 8:07 am

Compound #101: Parathion



Original Peak Response = 0



Manual Peak Response = 774 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181204nical\
Data File : ADPL1r.d
Acq On : 6 Dec 2018 12:14 am
Operator : SV103:cb
Sample : IL30,32,,ADPL1 Lot#7811
Misc : wg1186012,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 06 08:10:47 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 17:24:46 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\181204nical\ADPL7r.d
Sub List : ADPical - ADP sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
32) IS3_1,4-Dichlorobenzen...	4.801	152	52435	40.000 ug/ml	0.00
Standard Area 1 = 54139			Recovery =	96.85%	
85) IS3_Acenaphthene-d10	7.753	164	96372	40.000 ug/ml	0.00
Standard Area 1 = 105982			Recovery =	90.93%	
99) IS3_Phenanthrene-d10	9.194	188	181665	40.000 ug/ml	# 0.00
Standard Area 1 = 202030			Recovery =	89.92%	
System Monitoring Compounds					
Target Compounds					Qvalue
33) n-Decane	4.685	57	1306	0.446 ug/ml#	46
86) Atrazine	8.961	200	698M4	0.842 ug/ml	
100) n-Octadecane	9.163	57	1564	0.425 ug/ml#	32
101) Parathion	0.000		0	N.D.	
102) 3,3'-Dimethylbenzidine	11.353	212	1852	0.539 ug/ml#	61

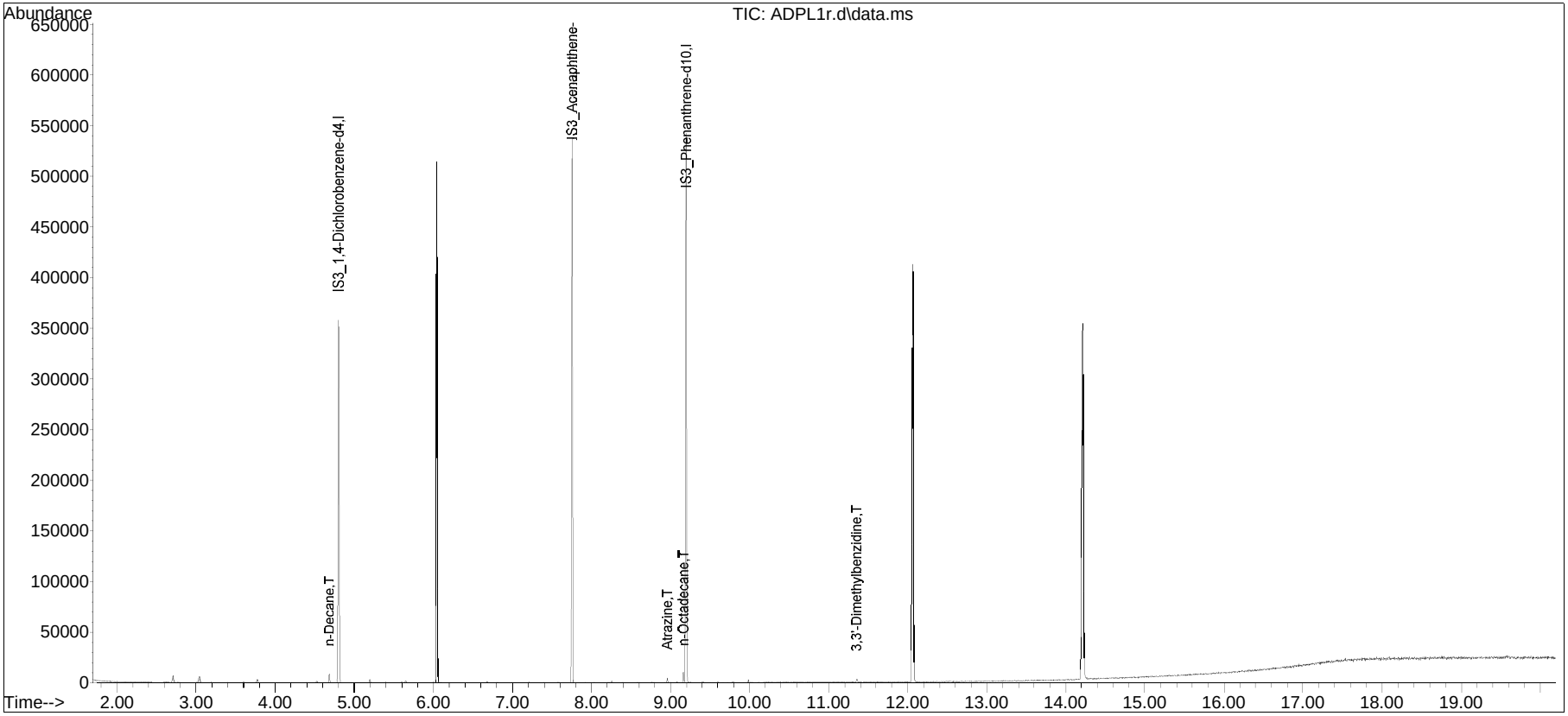
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181204nical\
Data File : ADPL1r.d
Acq On : 6 Dec 2018 12:14 am
Operator : SV103:cb
Sample : IL30,32,,ADPL1 Lot#7811
Misc : wg1186012,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 06 08:10:47 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 17:24:46 2018
Response via : Initial Calibration

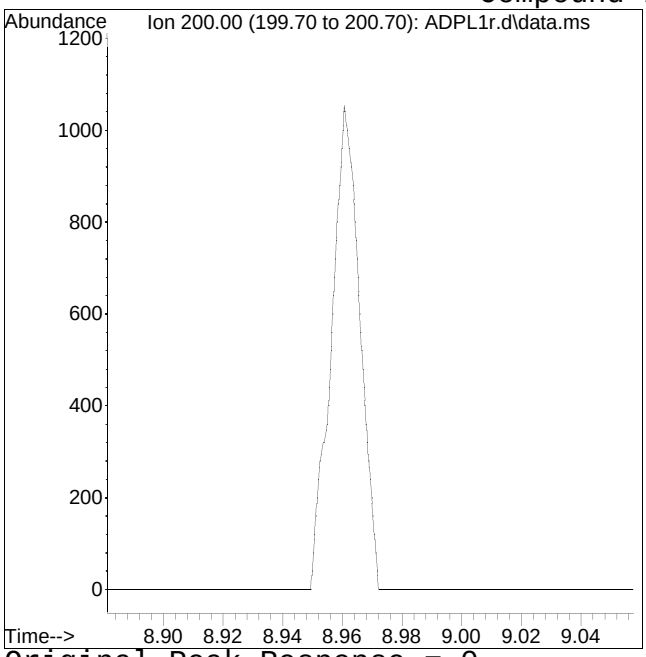
Sub List : ADPical - ADP sublist204nical\ADPL7r.d•



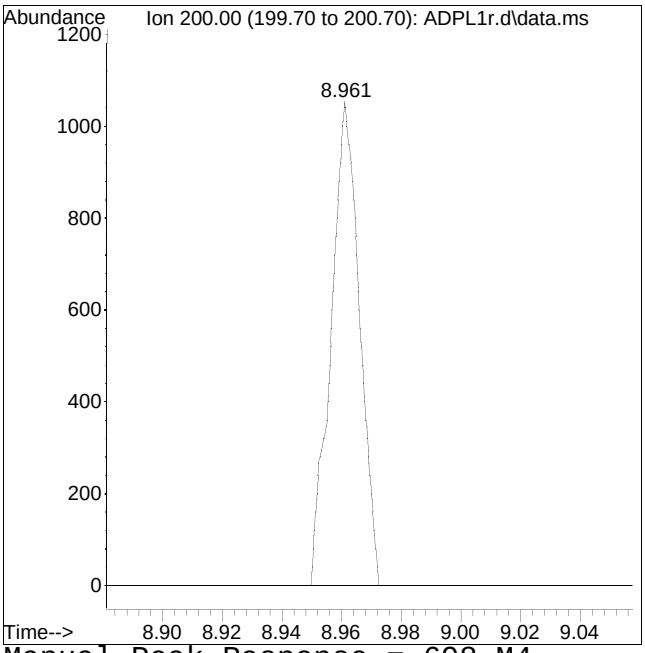
Manual Integration Report

Data Path : I:\8270\SV103\181204nical\QMethod : FS181204nSV103.m
Data File : ADPL1r.d Operator : SV103:cb
Date Inj'd : 12/6/2018 12:14 am Instrument : SV103
Sample : IL30,32,,ADPL1 Lot#7811 Quant Date : 12/6/2018 8:07 am

Compound #86: Atrazine



Original Peak Response = 0



Manual Peak Response = 698 M4

M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV103\181204nical\
Data File : ADPICVr.d
Acq On : 6 Dec 2018 12:39 am
Operator : SV103:cb
Sample : CQICV3,32,,ADP ICV Lot#7809
Misc : wg1186012,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 06 08:53:16 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 08:53:07 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
32	I	IS3_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	97	0.00
33	T	n-Decane	0.976	0.938	3.9	92	0.00
85	I	IS3_Acenaphthene-d10	1.000	1.000	0.0	95	0.00
86	T	Atrazine	0.310	0.327	-5.5	97	0.00
99	I	IS3_Phenanthrene-d10	1.000	1.000	0.0	93	0.00
100	T	n-Octadecane	0.386	0.378	2.1	91	0.00
101	T	Parathion	* 50.000	47.494	5.0	89	0.00
102	T	3,3'-Dimethylbenzidine	0.671	0.698	-4.0	94	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181204nical\
Data File : ADPICVr.d
Acq On : 6 Dec 2018 12:39 am
Operator : SV103:cb
Sample : CQICV3,32,,ADP ICV Lot#7809
Misc : wg1186012,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 06 08:53:16 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 08:53:07 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\181204nical\ADPL7r.d
Sub List : ADPical - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.801	152	52367	40.000	ug/ml	0.00
Standard Area 1 = 54139			Recovery =	96.73%		
85) IS3_Acenaphthene-d10	7.756	164	101147	40.000	ug/ml	0.00
Standard Area 1 = 105982			Recovery =	95.44%		
99) IS3_Phenanthrene-d10	9.194	188	188196	40.000	ug/ml	# 0.00
Standard Area 1 = 202030			Recovery =	93.15%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	4.685	57	61395	48.060	ug/ml#	46
86) Atrazine	8.967	200	41312	52.718	ug/ml	99
100) n-Octadecane	9.160	57	89015	49.049	ug/ml#	66
101) Parathion	9.981	109	29046	47.494	ug/ml	94
102) 3,3'-Dimethylbenzidine	11.362	212	164235	52.049	ug/ml	97

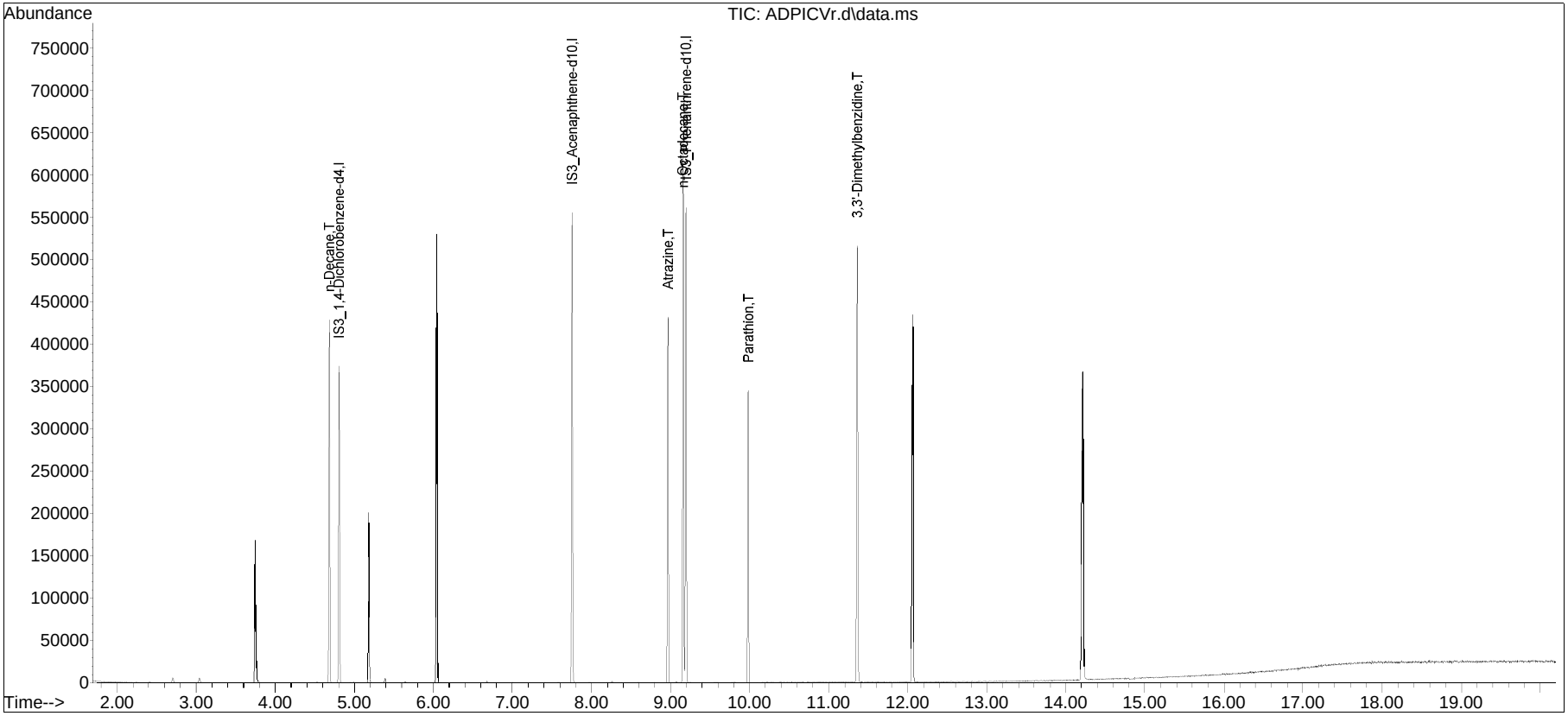
(#) = qualifier out of range (m) = manual integration (+) = signals summed

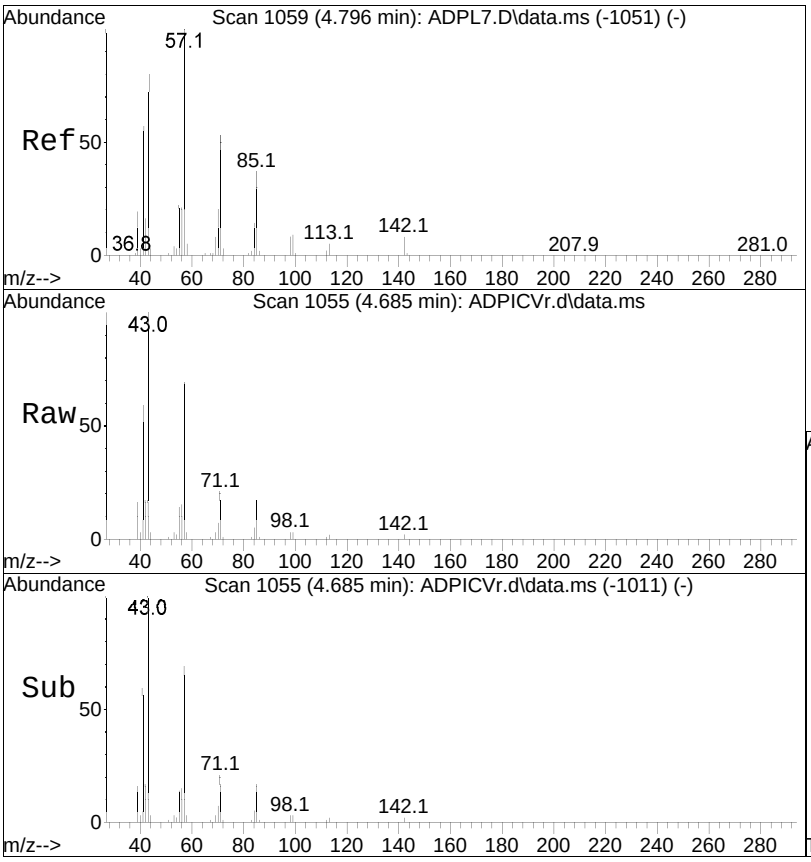
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181204nical\
Data File : ADPICVr.d
Acq On : 6 Dec 2018 12:39 am
Operator : SV103:cb
Sample : CQICV3,32,,ADP ICV Lot#7809
Misc : wg1186012,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 06 08:53:16 2018
Quant Method : I:\8270\SV103\181204nical\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 08:53:07 2018
Response via : Initial Calibration

Sub List : ADPical - ADP sublist204nical\ADPL7r.d•

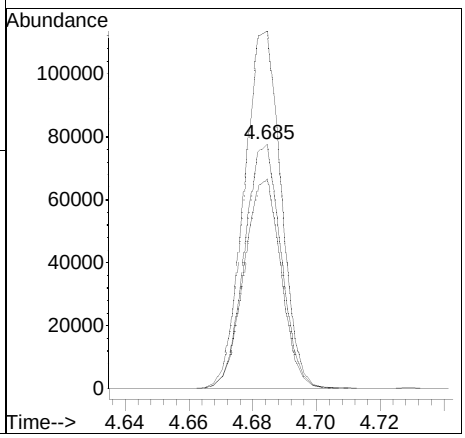


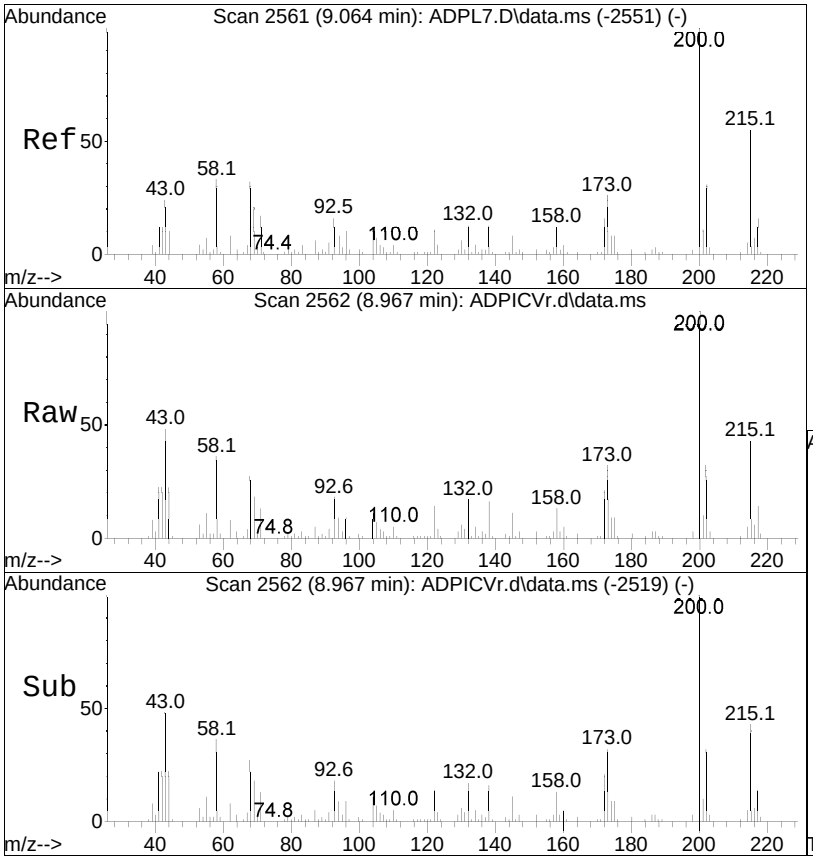


#33
n-Decane
Concen: 48.06 ug/ml
RT: 4.685 min Scan# 1055
Delta R.T. -0.000 min
Lab File: ADPICVr.d
Acq: 6 Dec 2018 12:39 am

Tgt Ion: 57 Resp: 61395

Ion	Ratio	Lower	Upper
57	100		
43	147.7	77.9	116.9#
41	86.9	36.9	55.3#

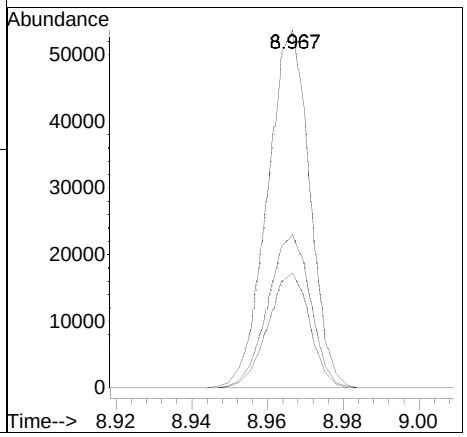


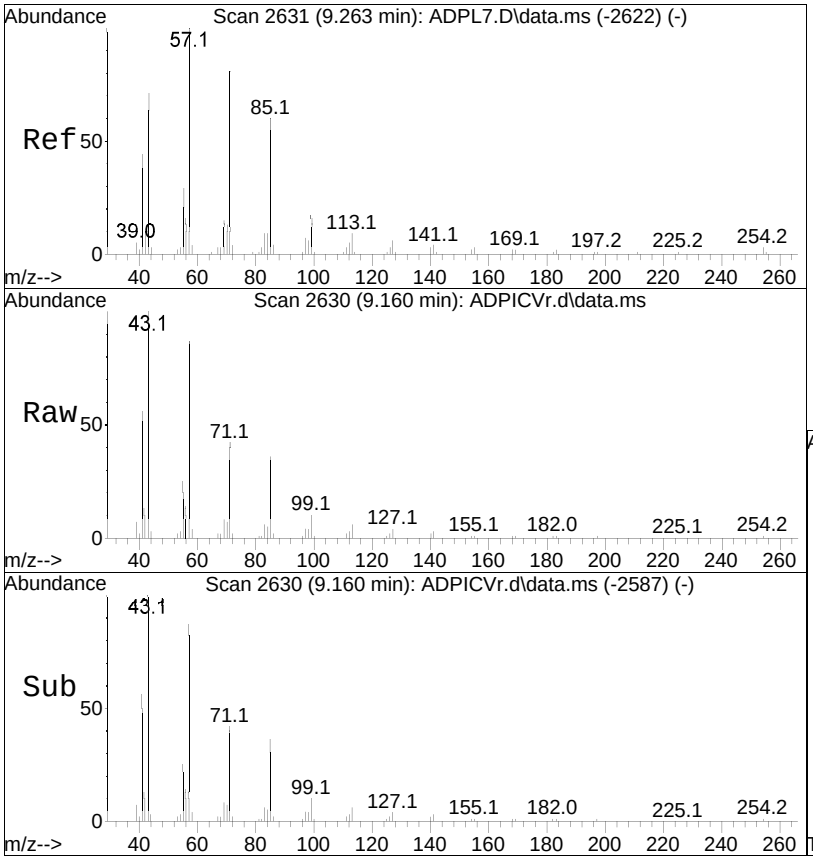


#86
Atrazine
Concen: 52.72 ug/ml
RT: 8.967 min Scan# 2562
Delta R.T. -0.003 min
Lab File: ADPICVr.d
Acq: 6 Dec 2018 12:39 am

Tgt Ion:200 Resp: 41312

Ion	Ratio	Lower	Upper
200	100		
202	31.8	24.9	37.3
215	43.2	34.0	51.0

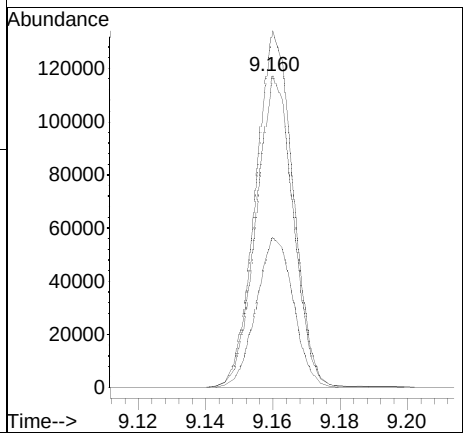


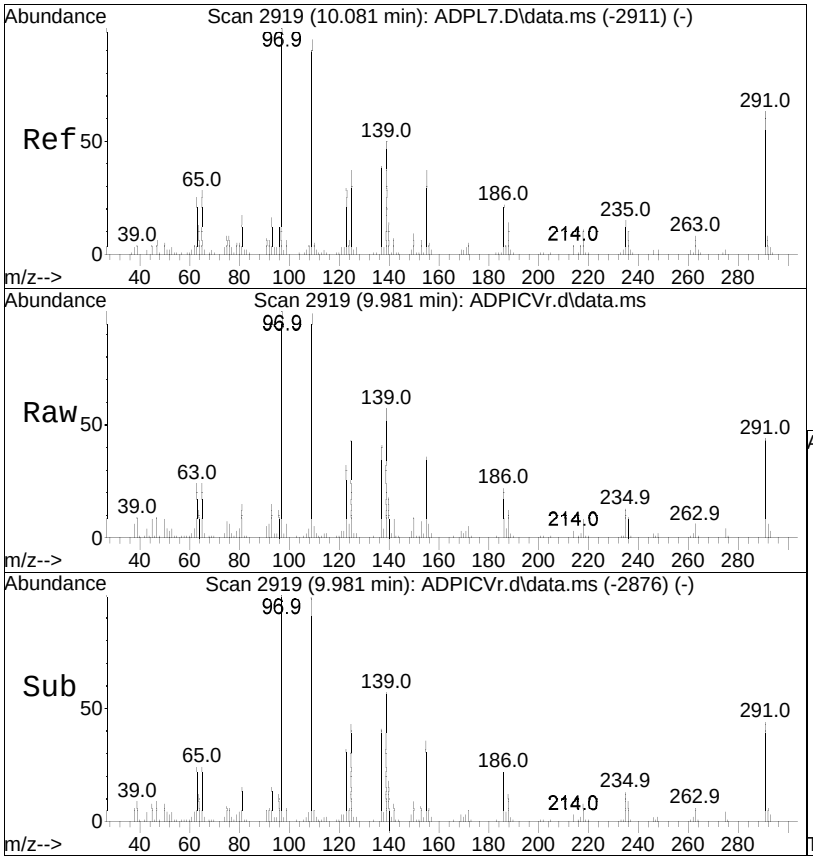


#100
n-Octadecane
Concen: 49.05 ug/ml
RT: 9.160 min Scan# 2630
Delta R.T. -0.003 min
Lab File: ADPICVr.d
Acq: 6 Dec 2018 12:39 am

Tgt Ion: 57 Resp: 89015

Ion	Ratio	Lower	Upper
57	100		
43	116.1	56.7	85.1#
71	48.5	42.8	64.2

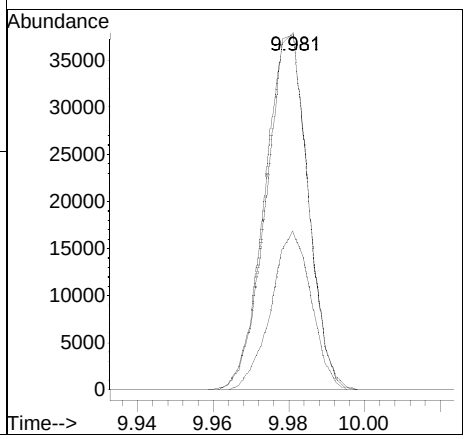


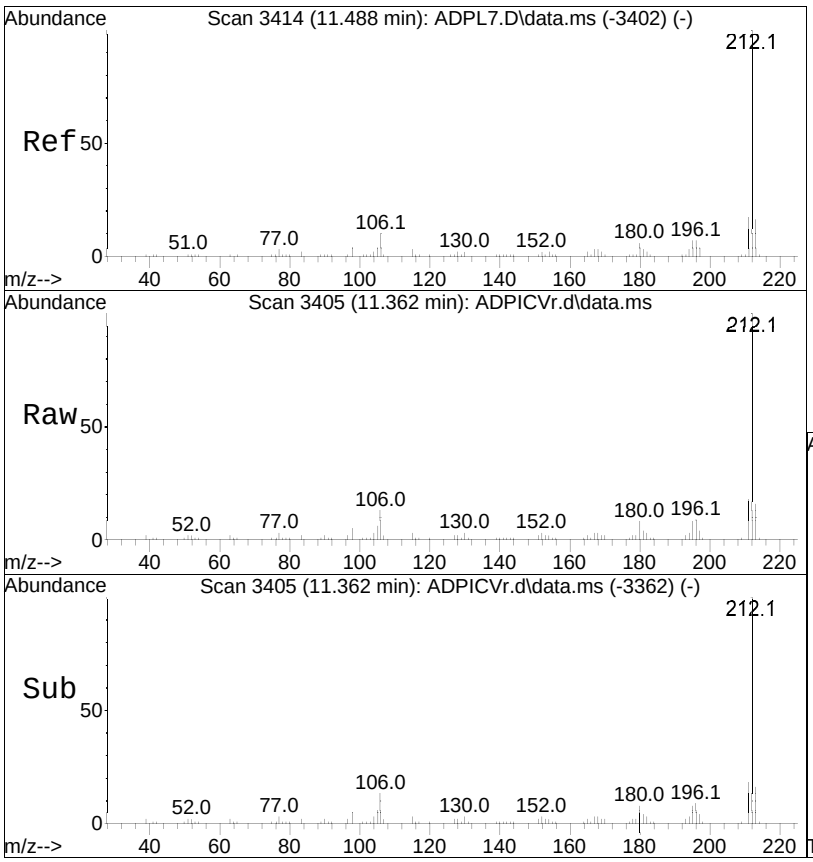


#101
Parathion
Concen: 47.49 ug/ml
RT: 9.981 min Scan# 2919
Delta R.T. -0.003 min
Lab File: ADPICVr.d
Acq: 6 Dec 2018 12:39 am

Tgt Ion:109 Resp: 29046

Ion	Ratio	Lower	Upper
109	100		
97	102.5	85.8	128.8
291	42.9	29.8	44.8

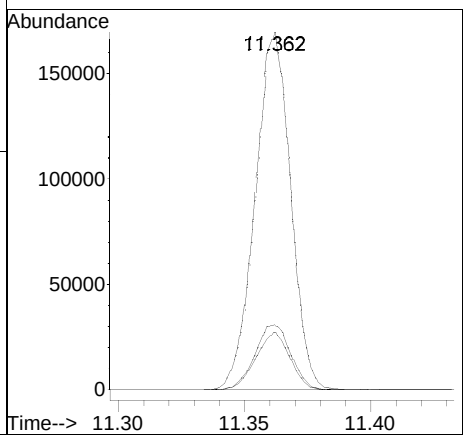




#102
3,3'-Dimethylbenzidine
Concen: 52.05 ug/ml
RT: 11.362 min Scan# 3405
Delta R.T. -0.003 min
Lab File: ADPICVr.d
Acq: 6 Dec 2018 12:39 am

Tgt Ion:212 Resp: 164235

Ion	Ratio	Lower	Upper
212	100		
211	18.7	13.5	20.3
213	15.7	13.4	20.0



Manual Integration Report

Data Path	: I:\8270\SV103\181204nical\	QMethod	: FS181204nSV103.m
Data File	: ADPICVr.d	Operator	: SV103:cb
Date Inj'd	: 12/6/2018 12:39 am	Instrument	: SV103
Sample	: CQICV3,32,,ADP ICV Lot#780	Quant Date	: 12/6/2018 8:53 am

There are no manual integrations or false positives in this file.

Response Factor Report SV112

Method Path : I:\8270\SV112\181205ical\
Method File : FS181205SV112.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Thu Dec 06 14:21:01 2018
Response Via : Initial Calibration

Calibration Files
1.0 =AP9L1.D 2.0 =AP9L2.D 3.0 =AP9L3.D 5.0 =AP9L4.D 10 =AP9L5.D 20 =ADPL6.D 50 =AP9L7.D
100 =AP9L8.D 150 =AP9L9.D 200 =AP9L10.D

		Compound	1.0	2.0	3.0	5.0	10	20	50	100	150	200	Avg	%RSD
1)	I	IS1_1,4-Dichlorobenzene-d4	ISTD											
2)	t	N-Nitrosodimethylamine	0.899	0.950	0.923	0.903	0.933	0.927	0.932	0.936	0.943	0.961	0.931	2.04
3)	t	Pyridine	1.299	1.585	1.609	1.594	1.667	1.620	1.612	1.632	1.662	1.685	1.597	6.87
4)	S	2-Fluorophenol	1.355	1.352	1.392	1.410	1.417	1.375	1.410	1.438	1.448	1.464	1.406	2.71
5)	T	Aniline	2.260	2.301	2.302	2.279	2.322	2.320	2.278	2.255	2.211	2.143	2.267	2.43
6)	t	2-Chlorophenol	1.421	1.473	1.443	1.473	1.513	1.520	1.516	1.526	1.541	1.542	1.497	2.80
7)	S	Phenol-d6	1.647	1.734	1.696	1.686	1.735	1.741	1.717	1.722	1.710	1.677	1.707	1.76
8)	T	Phenol	1.922	2.011	1.974	2.021	2.041	2.023	1.994	2.001	1.957	1.923	1.987	2.09
9)	T	bis(2-Chloroethyl)ether	1.476	1.501	1.473	1.451	1.439	1.431	1.393	1.402	1.387	1.384	1.434	2.88
10)	T	1,3-Dichlorobenzene	1.683	1.684	1.636	1.649	1.680	1.610	1.604	1.623	1.616	1.613	1.640	1.96
11)	T	1,4-Dichlorobenzene	1.668	1.777	1.698	1.696	1.709	1.635	1.636	1.649	1.624	1.613	1.671	3.01
12)	T	1,2-Dichlorobenzene	1.656	1.714	1.628	1.619	1.632	1.572	1.552	1.568	1.545	1.505	1.599	3.87
13)	t	Benzyl alcohol	1.041	1.095	1.079	1.099	1.155	1.182	1.177	1.190	1.186	1.166	1.137	4.71
14)	T	bis(2-chloroisopropyl)ether	2.138	2.112	2.078	2.083	2.062	2.037	1.951	1.934	1.899	1.850	2.014	4.89
15)	T	2-Methylphenol	1.246	1.323	1.303	1.330	1.379	1.378	1.354	1.356	1.349	1.325	1.334	2.95
16)	T	Hexachloroethane	0.610	0.644	0.607	0.611	0.622	0.609	0.615	0.629	0.628	0.630	0.620	1.94
17)	T	n-Nitrosodi-n-propylamine	0.972	1.013	1.002	0.981	1.005	1.033	1.019	1.021	1.012	0.995	1.005	1.87
18)	T	3-Methylphenol/4-Methylphenol	1.298	1.349	1.371	1.388	1.435	1.475	1.438	1.431	1.412	1.393	1.399	3.65
19)	S	Nitrobenzene-d5	1.503	1.461	1.440	1.441	1.479	1.519	1.496	1.516	1.518	1.499	1.487	2.04
20)	T	Nitrobenzene	1.508	1.508	1.467	1.498	1.557	1.567	1.539	1.543	1.530	1.491	1.521	2.07
21)	T	Isophorone	2.498	2.574	2.558	2.577	2.733	2.841	2.763	2.773	2.730	2.703	2.675	4.26
22)	T	2-Nitrophenol				0.621	0.675	0.726	0.742	0.772	0.770	0.773	0.726	7.99
23)	T	2,4-Dimethylphenol			1.317	1.324	1.352	1.420	1.479	1.433	1.451	1.435	1.426	1.404	4.14
24)	T	bis(2-Chloroethoxy)methane	1.779	1.787	1.782	1.755	1.838	1.848	1.773	1.783	1.745	1.723	1.781	2.14
25)	T	2,4-Dichlorophenol			1.083	1.103	1.106	1.164	1.223	1.194	1.216	1.210	1.185	1.165	4.64
26)	T	1,2,4-Trichlorobenzene	1.300	1.353	1.278	1.269	1.296	1.285	1.260	1.262	1.248	1.237	1.279	2.55
27)	I	IS2_1,4-Dichlorobenzene-d4	ISTD											
28)	T	Benzaldehyde	1.206	1.207	1.157	1.172	1.181	1.184	1.180	1.167	1.182	1.185	1.182	1.30
29)	T	Acetophenone	2.014	2.025	1.918	2.009	1.993	1.939	2.000	1.943	1.977	1.979	1.980	1.80
30)	T	m-Toluidine	1.758	1.833	1.806	1.896	1.902	1.915	1.973	1.905	1.930	1.958	1.888	3.61
31)	T	2-Chloroaniline	1.718	1.739	1.709	1.757	1.781	1.743	1.788	1.742	1.778	1.783	1.754	1.61
32)	I	IS3_1,4-Dichlorobenzene-d4	ISTD											
33)	T	n-Decane	1.589	1.558	1.530	1.540	1.542	1.522	1.477	1.474	1.472	1.434	1.514	3.15
34)	I	IS1_Naphthalene-d8	ISTD											
35)	T	Naphthalene	1.131	1.149	1.126	1.106	1.104	1.065	1.048	1.056	1.025	1.011	1.082	4.40
36)	T	Benzoic Acid					0.126	0.190	0.247	0.271	0.282	0.297	*Q	0.9999
37)	T	4-Chloroaniline	0.125	0.124	0.131	0.132	0.133	0.132	0.130	0.132	0.129	0.131	0.130	2.27
38)	T	Hexachlorobutadiene	0.161	0.173	0.160	0.160	0.165	0.156	0.156	0.162	0.161	0.165	0.162	3.08
39)	T	p-Chloro-m-cresol		0.274	0.274	0.283	0.293	0.308	0.303	0.312	0.310	0.317	0.297	5.57
40)	T	2-Methylnaphthalene	0.713	0.731	0.708	0.704	0.721	0.709	0.690	0.694	0.682	0.678	0.703	2.41
41)	T	1-Methylnaphthalene	0.246	0.254	0.235	0.241	0.246	0.238	0.232	0.236	0.233	0.234	0.240	2.95
42)	T	Hexachlorocyclopentadiene				0.158	0.169	0.176	0.186	0.198	0.200	0.208	0.185	9.82
43)	T	2,4,6-Trichlorophenol		0.160	0.162	0.168	0.178	0.189	0.197	0.200	0.202	0.206	0.185	9.74
44)	T	2,4,5-Trichlorophenol			0.182	0.182	0.198	0.207	0.206	0.213	0.211	0.216	0.202	6.57
45)	S	2-Fluorobiphenyl	0.754	0.770	0.742	0.730	0.745	0.734	0.720	0.718	0.698	0.701	0.731	3.10

Response Factor Report SV112

Method Path : I:\8270\SV112\181205ical\
Method File : FS181205SV112.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Thu Dec 06 14:21:01 2018
Response Via : Initial Calibration

Calibration Files
1.0 =AP9L1.D 2.0 =AP9L2.D 3.0 =AP9L3.D 5.0 =AP9L4.D 10 =AP9L5.D 20 =ADPL6.D 50 =AP9L7.D
100 =AP9L8.D 150 =AP9L9.D 200 =AP9L10.D

		Compound	1.0	2.0	3.0	5.0	10	20	50	100	150	200	Avg	%RSD
46)	T	2-Chloronaphthalene	0.629	0.646	0.636	0.614	0.639	0.638	0.629	0.631	0.619	0.614	0.629	1.72
47)	T	2-Nitroaniline				0.172	0.191	0.210	0.219	0.226	0.226	0.231	0.211	10.35
48)	T	1,4-Dinitrobenzene					0.076	0.087	0.094	0.098	0.100	0.103	0.093	10.69
49)	T	1,3-Dinitrobenzene				0.078	0.094	0.105	0.106	0.110	0.109	0.109	0.102	11.46
50)	T	Dimethyl phthalate	0.705	0.700	0.710	0.705	0.729	0.762	0.736	0.731	0.716	0.714	0.721	2.61
51)	T	Acenaphthylene	0.951	0.981	0.981	0.989	1.041	1.058	1.030	1.019	0.983	0.971	1.000	3.43
52)	T	2,6-Dinitrotoluene		0.119	0.125	0.134	0.147	0.160	0.157	0.160	0.161	0.164	0.147	11.60
53)	T	1,2-Dinitrobenzene		0.054	0.055	0.059	0.064	0.069	0.069	0.069	0.069	0.069	0.064	10.08
54)	I	IS2_Naphthalene-d8	----------ISTD----------											
55)	T	a-Terpineol	0.242	0.246	0.241	0.248	0.251	0.257	0.262	0.257	0.251	0.249	0.250	2.71
56)	T	3-Chloroaniline	0.133	0.129	0.136	0.134	0.136	0.136	0.133	0.131	0.128	0.128	0.132	2.40
57)	T	2,6-Dichlorophenol	0.208	0.227	0.229	0.246	0.252	0.257	0.266	0.266	0.268	0.270	0.249	8.50
58)	T	1-chloro-2-nitrobenzene	0.118	0.120	0.119	0.125	0.126	0.127	0.134	0.134	0.137	0.139	0.128	6.02
59)	T	Caprolactam			0.096	0.105	0.119	0.131	0.144	0.147	0.151	0.151	0.130	16.52
60)	T	1,2,4,5-Tetrachlorobenzene	0.288	0.289	0.267	0.275	0.269	0.266	0.261	0.266	0.265	0.267	0.271	3.60
61)	T	Biphenyl	0.813	0.822	0.761	0.808	0.771	0.758	0.764	0.742	0.739	0.728	0.771	4.27
62)	I	IS1_Acenaphthene-d10	----------ISTD----------											
63)	T	3-Nitroaniline			0.321	0.346	0.372	0.390	0.395	0.406	0.405	0.415	0.381	8.59
64)	T	Acenaphthene	1.231	1.242	1.192	1.200	1.198	1.167	1.136	1.154	1.124	1.118	1.176	3.69
65)	T	2,4-Dinitrophenol				0.057	0.087	0.117	0.145	0.167	0.175	0.185	*Q	0.9998
66)	T	Dibenzofuran	1.861	1.892	1.833	1.842	1.855	1.804	1.750	1.750	1.670	1.657	1.791	4.55
67)	T	2,4-Dinitrotoluene		0.297	0.308	0.341	0.372	0.408	0.419	0.428	0.425	0.429	0.381	14.03
68)	T	4-Nitrophenol				0.245	0.268	0.289	0.295	0.305	0.302	0.313	0.288	8.34
69)	T	2,3,5,6-Tetrachlorophenol				0.261	0.289	0.307	0.316	0.329	0.330	0.340	0.310	8.87
70)	T	2,3,4,6-Tetrachlorophenol			0.275	0.286	0.310	0.321	0.321	0.335	0.330	0.340	0.315	7.38
71)	T	Diethyl phthalate	1.333	1.421	1.419	1.447	1.504	1.527	1.509	1.528	1.514	1.537	1.474	4.52
72)	T	Fluorene	1.339	1.395	1.369	1.377	1.404	1.400	1.369	1.379	1.328	1.336	1.370	2.01
73)	T	4-Chlorophenyl-phenylether	0.670	0.661	0.643	0.649	0.649	0.637	0.627	0.639	0.620	0.626	0.642	2.45
74)	T	4-Nitroaniline			0.299	0.345	0.374	0.389	0.389	0.400	0.398	0.407	0.375	9.74
75)	T	4,6-Dinitro-o-cresol				0.100	0.129	0.168	0.193	0.210	0.218	0.227	*Q	1.0000
76)	T	NDPA/DPA	1.136	1.155	1.175	1.187	1.217	1.217	1.203	1.198	1.174	1.176	1.184	2.20
77)	T	Azobenzene	1.272	1.381	1.345	1.407	1.471	1.488	1.439	1.453	1.401	1.411	1.407	4.53
78)	S	2,4,6-Tribromophenol		0.130	0.146	0.142	0.157	0.170	0.177	0.187	0.191		0.163	13.73
79)	T	4-Bromophenyl-phenylether	0.343	0.348	0.344	0.343	0.342	0.341	0.341	0.353	0.348	0.363	0.347	2.00
80)	T	Hexachlorobenzene	0.392	0.370	0.379	0.371	0.384	0.383	0.374	0.388	0.387	0.405	0.383	2.73
81)	T	Pentachlorophenol			0.123	0.141	0.178	0.214	0.232	0.246	0.251	0.265	*L	0.9981
82)	I	IS2_Acenaphthene-d10	----------ISTD----------											
83)	T	Dichloran				0.090	0.105	0.121	0.144	0.156	0.167	0.167	*L	0.9976
84)	T	Pentachloronitrobenzene			0.096	0.112	0.123	0.132	0.145	0.150	0.158	0.158	0.134	16.82
85)	I	IS3_Acenaphthene-d10	----------ISTD----------											
86)	T	Atrazine			0.215	0.234	0.280	0.303	0.334	0.358	0.381	0.391	*L	0.9973
87)	I	IS1_Phenanthrene-d10	----------ISTD----------											
88)	T	Phenanthrene	1.255	1.288	1.228	1.215	1.212	1.171	1.149	1.162	1.130	1.144	1.195	4.37
89)	T	Anthracene	1.086	1.173	1.171	1.168	1.183	1.176	1.165	1.189	1.155	1.169	1.163	2.48
90)	T	Carbazole	0.992	1.082	1.087	1.122	1.168	1.155	1.128	1.140	1.100	1.121	1.109	4.49

Response Factor Report SV112

Method Path : I:\8270\SV112\181205ical\
Method File : FS181205SV112.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Thu Dec 06 14:21:01 2018
Response Via : Initial Calibration

Calibration Files
1.0 =AP9L1.D 2.0 =AP9L2.D 3.0 =AP9L3.D 5.0 =AP9L4.D 10 =AP9L5.D 20 =ADPL6.D 50 =AP9L7.D
100 =AP9L8.D 150 =AP9L9.D 200 =AP9L10.D

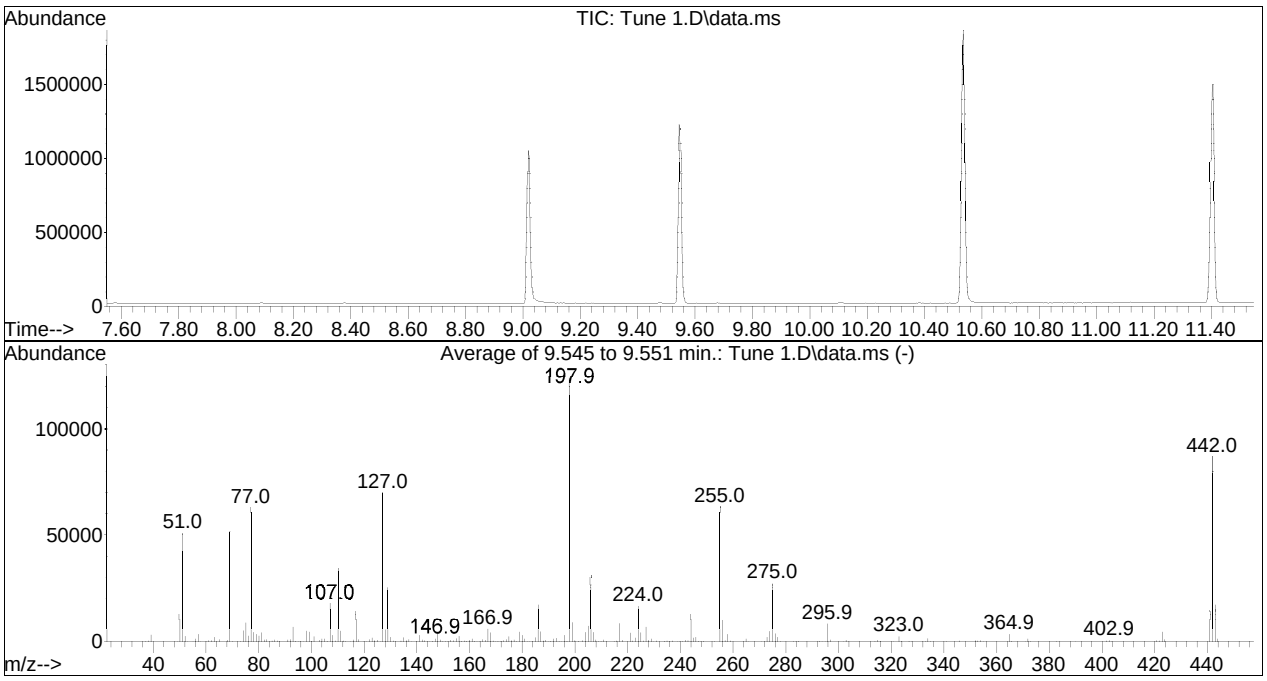
		Compound	1.0	2.0	3.0	5.0	10	20	50	100	150	200	Avg	%RSD	
91)	T	Di-n-butylphthalate	0.947	1.068	1.120	1.205	1.307	1.378	1.430	1.481	1.423	1.463	1.282	14.58	
92)	T	Fluoranthene	1.108	1.150	1.149	1.182	1.198	1.214	1.205	1.242	1.218	1.241	1.191	3.65	
93)	T	Benzidine			0.570	0.657	0.740	0.843	0.882	0.926	0.940	0.982	0.817	18.03	
94)	T	Pyrene	1.192	1.221	1.234	1.283	1.283	1.297	1.278	1.278	1.259	1.268	1.259	2.64	
95)	S	4-Terphenyl-d14	0.817	0.806	0.815	0.851	0.846	0.871	0.876	0.899	0.879	0.910	0.857	4.21	
96)	T	Butyl benzyl phthalate				0.442	0.502	0.583	0.635	0.669	0.670	0.696	0.600	15.95	
97)	I	IS2_Phenanthrene-d10	ISTD												
98)	T	Diphenamid	0.342	0.356	0.379	0.411	0.458	0.487	0.526	0.540	0.541	0.536	0.458	17.45	
99)	I	IS3_Phenanthrene-d10	ISTD												
100)	T	n-Octadecane	0.329	0.356	0.367	0.424	0.476	0.504	0.509	0.511	0.498	0.481	0.445	15.85	
101)	T	Parathion				0.045	0.060	0.077	0.113	0.139	0.151	0.163	*Q	0.9989	
102)	T	3,3'-Dimethylbenzidine			0.240	0.299	0.440	0.563	0.718	0.786	0.851	0.886	*Q	0.9992	
103)	I	IS1_Chrysene-d12	ISTD												
104)	T	Benzo[a]anthracene	1.213	1.243	1.239	1.253	1.297	1.274	1.289	1.332	1.324	1.346	1.281	3.45	
105)	T	3,3'-Dichlorobenzidine			0.361	0.393	0.455	0.466	0.490	0.513	0.524	0.535	0.467	13.44	
106)	T	Chrysene	1.251	1.303	1.258	1.236	1.257	1.210	1.191	1.230	1.210	1.237	1.238	2.55	
107)	T	bis(2-Ethylhexyl)phthalate			0.588	0.684	0.836	0.915	1.014	1.060	1.061	1.085	*L	0.9995	
108)	T	Di-n-octylphthalate			0.712	0.906	1.214	1.443	1.704	1.840	1.846	1.895	*L	0.9985	
109)	T	Benzo(b)fluoranthene	0.892	0.971	1.014	1.079	1.172	1.175	1.184	1.278	1.275	1.354	1.139	12.98	
110)	T	Benzo(k)fluoranthene	0.950	1.102	1.089	1.162	1.207	1.206	1.215	1.279	1.279	1.272	1.176	8.88	
111)	T	Benzo(a)pyrene			0.860	0.907	0.995	1.089	1.133	1.170	1.259	1.271	1.306	1.110	14.54
112)	I	IS1_Perylene-d12	ISTD												
113)	T	Indeno(1,2,3-cd)pyrene			0.776	0.835	0.953	1.014	1.099	1.124	1.265	1.291	1.350	1.078	18.75
114)	T	Dibenzo[a,h]anthracene	0.815	0.933	0.989	1.031	1.109	1.126	1.147	1.240	1.239	1.275	1.090	13.61	
115)	T	Benzo(g,h,i)perylene	0.861	0.962	0.987	1.039	1.107	1.129	1.120	1.227	1.218	1.258	1.091	11.77	

(#) = Out of Range

Data Path : I:\8270\SV112\181205ical\
Data File : Tune 1.D
Acq On : 05 Dec 2018 07:52 pm
Operator : sv112:cb
Sample : Tune1
Misc : WG1186464,,
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV112\181205ical\FS181205SV112.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Thu Dec 06 14:21:01 2018



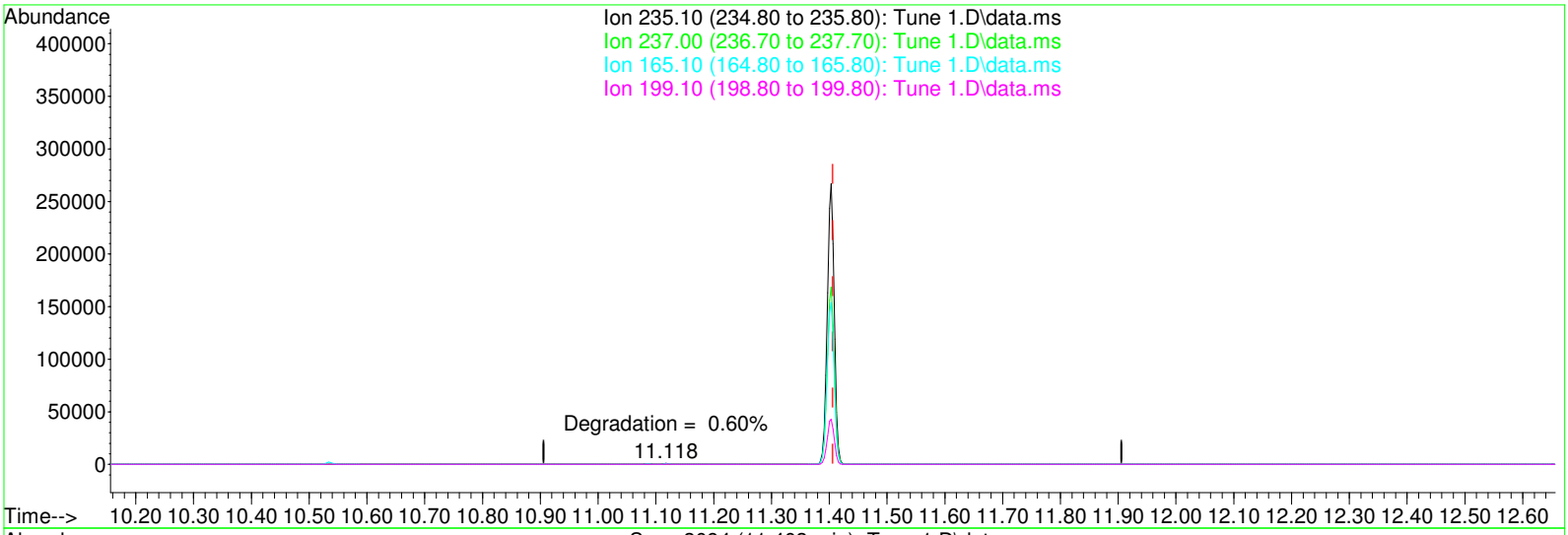
Spectrum Information: Average of 9.545 to 9.551 min.

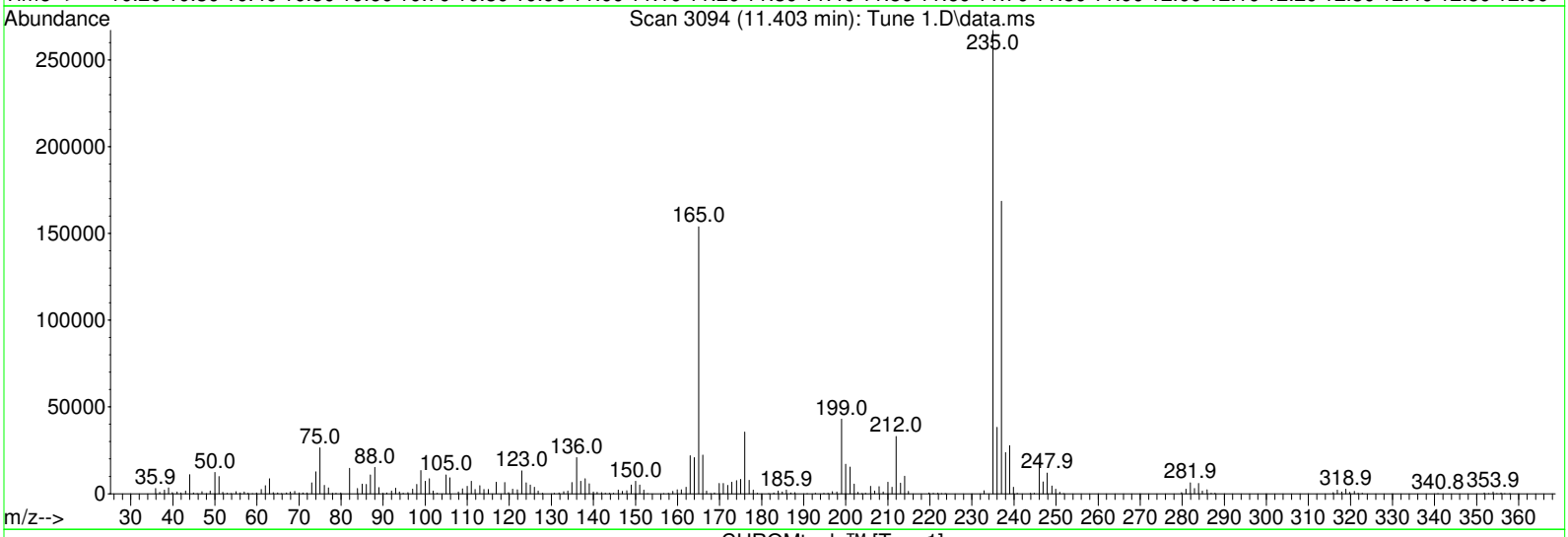
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	41.0	50914	PASS
68	69	0.00	2	1.6	817	PASS
70	69	0.00	2	0.5	273	PASS
127	198	10	80	56.3	69891	PASS
197	198	0.00	2	0.4	440	PASS
198	198	100	100	100.0	124096	PASS
199	198	5	9	6.9	8566	PASS
275	198	10	60	22.1	27467	PASS
365	198	1	100	2.8	3509	PASS
441	442	0.01	24	16.6	14460	PASS
442	198	50	100	70.0	86877	PASS
443	442	15	24	19.6	17038	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV112\181205ical\
Data File : Tune 1.D
Acq On : 05 Dec 2018 07:52 pm
Operator : sv112:cb
Sample : Tune1
Misc : WG1186464,,
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Dec 05 20:15:06 2018
Quant Method : I:\8270\SV112\181205ical\dftppSV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 19:42:43 2018
Response via : Initial Calibration





CHROMtools™ [Tune1]

(6) ddt (T)

11.403min (-0.003) 36.91

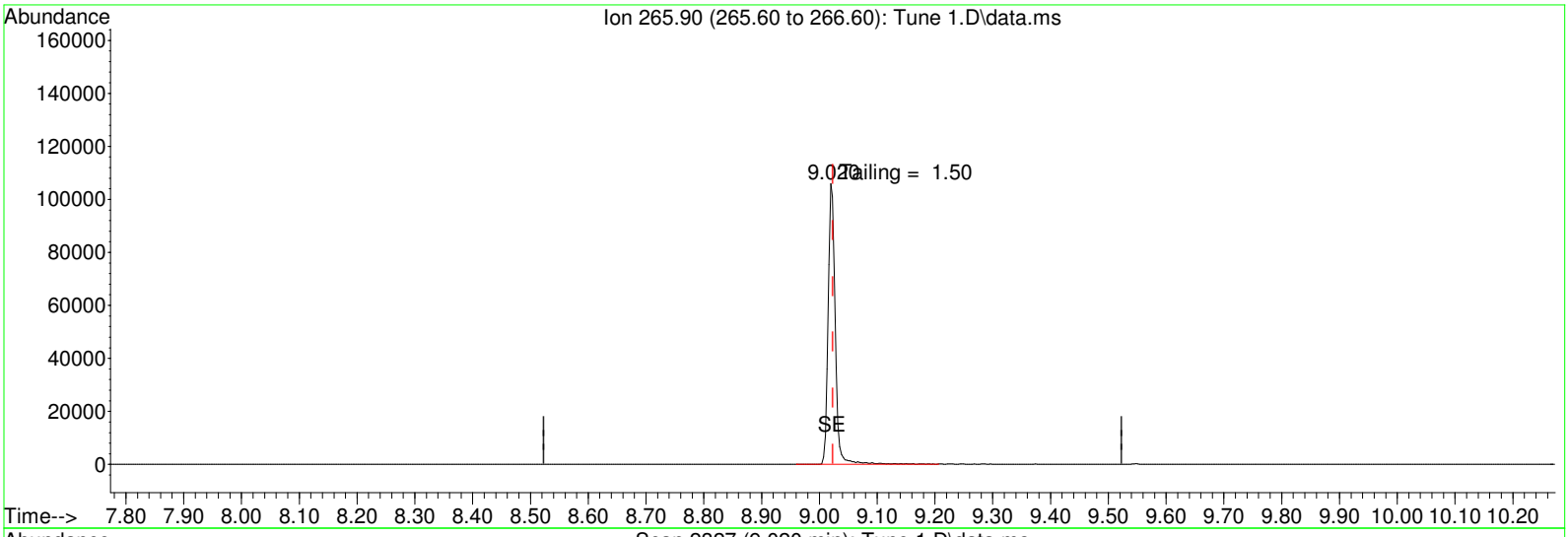
response 224992

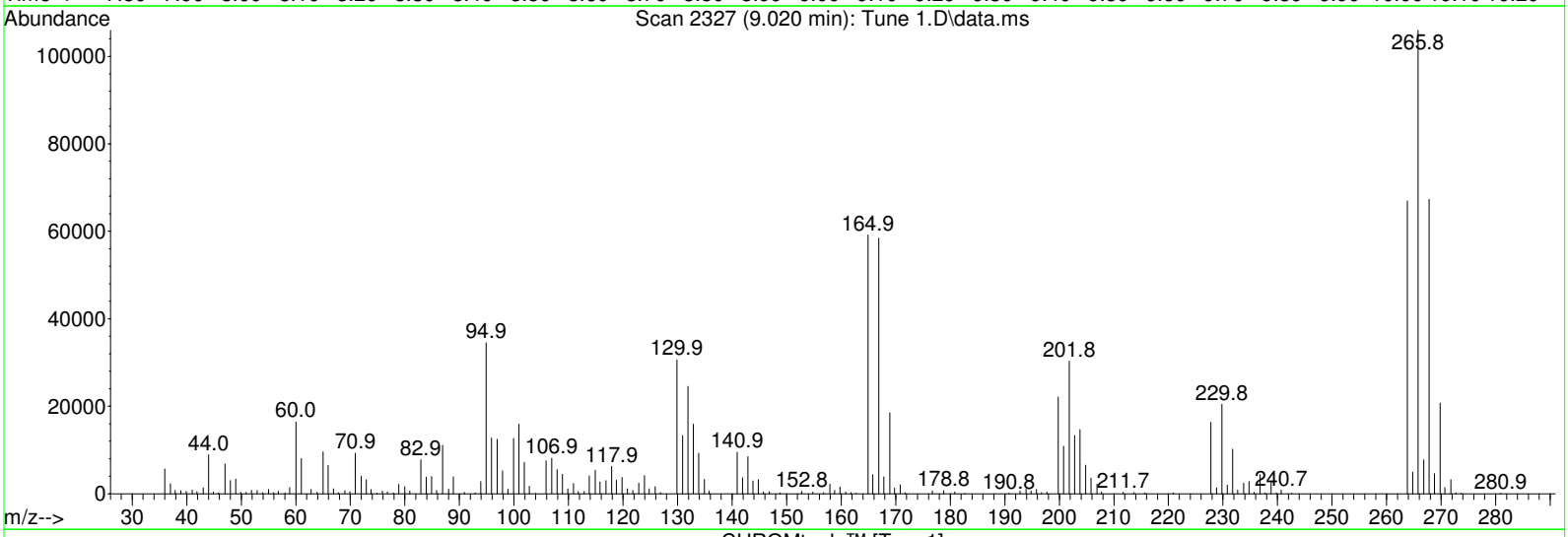
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	63.00	63.70
165.10	60.40	59.10
199.10	16.10	16.44

Quantitation Report (Qedit)

Data Path : I:\8270\SV112\181205ical\
Data File : Tune 1.D
Acq On : 05 Dec 2018 07:52 pm
Operator : sv112:cb
Sample : Tune1
Misc : WG1186464,,
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Dec 05 20:15:06 2018
Quant Method : I:\8270\SV112\181205ical\dftppSV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 19:42:43 2018
Response via : Initial Calibration





CHROMtools™ [Tune1]

(1) pentachlorophenol (T)

9.020min (-0.003) 42.38

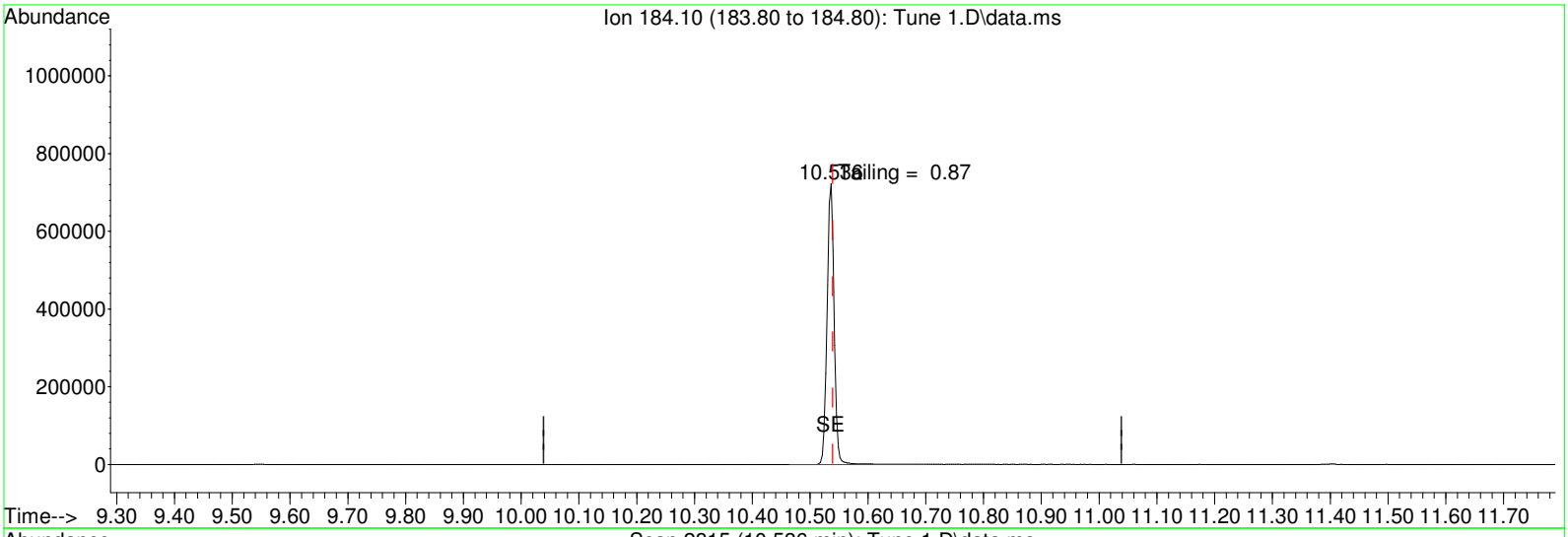
response 89011

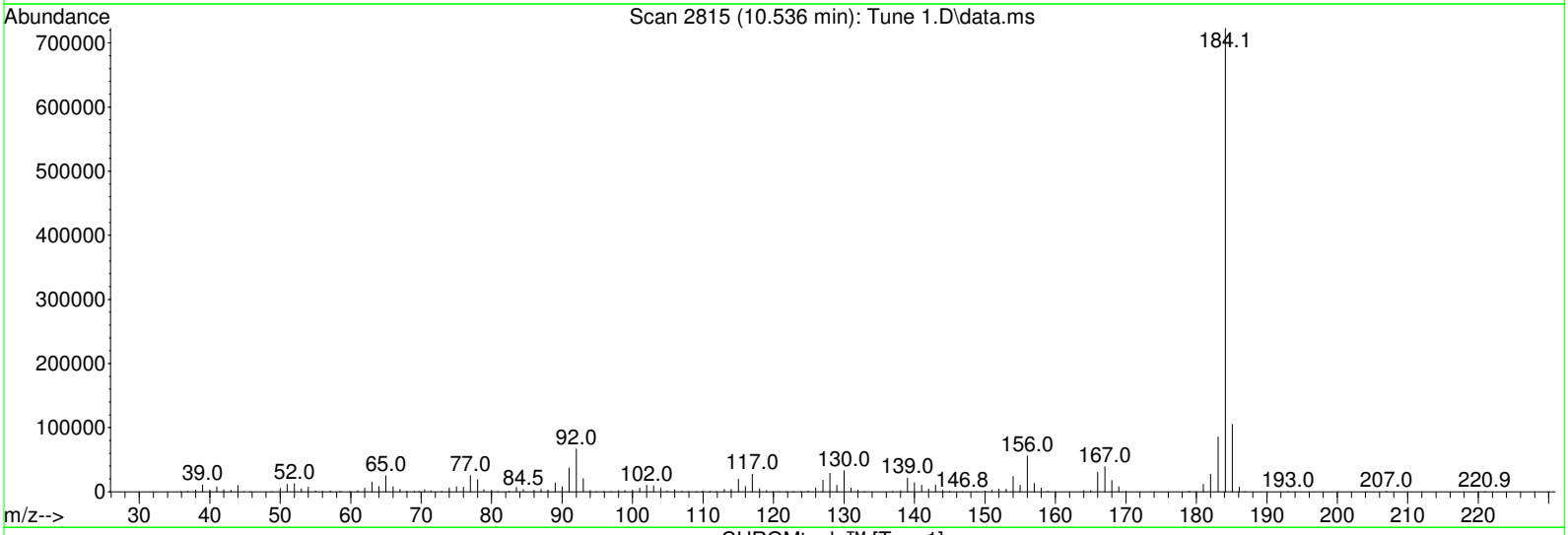
Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV112\181205ical\
Data File : Tune 1.D
Acq On : 05 Dec 2018 07:52 pm
Operator : sv112:cb
Sample : Tune1
Misc : WG1186464,,
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Dec 05 20:15:06 2018
Quant Method : I:\8270\SV112\181205ical\dftppSV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 19:42:43 2018
Response via : Initial Calibration





CHROMtools™ [Tune1]

(3) benzidine (T)

10.536min (-0.003) 60.18

response 612661

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181205ical\
Data File : ABNL10.D
Acq On : 05 Dec 2018 08:17 pm
Operator : sv112:cb
Sample : IL1,32,,ABNL200 Lot#7788
Misc : WG1186464,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 06 11:54:44 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 11:43:21 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\181205ical\ABNL7.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.786	152	144852	40.000	ug/ml	0.00
Standard Area 1 = 153313			Recovery = 94.48%			
34) IS1_Naphthalene-d8	6.032	136	575750	40.000	ug/ml	0.00
Standard Area 1 = 638567			Recovery = 90.16%			
62) IS1_Acenaphthene-d10	7.751	164	285617	40.000	ug/ml	0.00
Standard Area 1 = 323009			Recovery = 88.42%			
87) IS1_Phenanthrene-d10	9.193	188	488403	40.000	ug/ml	0.00
Standard Area 1 = 563292			Recovery = 86.71%			
103) IS1_Chrysene-d12	11.870	240	443681	40.000	ug/ml	0.00
Standard Area 1 = 518627			Recovery = 85.55%			
112) IS1_Perylene-d12	13.352	264	451615	40.000	ug/ml	0.00
Standard Area 1 = 513574			Recovery = 87.94%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.502	112	1060550	207.743	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 415.49%#			
7) Phenol-d6	4.463	99	1214775	195.336	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 390.67%#			
19) Nitrobenzene-d5	5.333	82	1086018	200.499	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 802.00%#			
45) 2-Fluorobiphenyl	7.111	172	2017094	194.684	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 778.74%#			
78) 2,4,6-Tribromophenol	8.522	330	294467	233.277	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 466.55%#			
95) 4-Terphenyl-d14	10.791	244	2222935	207.782	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 831.13%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.122	74	695697	206.183	ug/ml	90
3) Pyridine	2.153	79	1220203	208.990	ug/ml	89
5) Aniline	4.466	93	1551804	188.113	ug/ml#	54
6) 2-Chlorophenol	4.581	128	1116849	203.487	ug/ml	96
8) Phenol	4.475	94	1392740	192.898	ug/ml#	53
9) Bis(2-chloroethyl)ether	4.547	93	1002679	198.719	ug/ml	96
10) 1,3-Dichlorobenzene	4.730	146	1168093	201.148	ug/ml	99
11) 1,4-Dichlorobenzene	4.802	146	1167933	197.184	ug/ml	98
12) 1,2-Dichlorobenzene	4.951	146	1089957	193.920	ug/ml	98
13) Benzyl alcohol	4.941	79	844253	198.106	ug/ml	97
14) Bis(2-chloroisopropyl)...	5.084	45	1339707	189.658	ug/ml#	75

Data Path : I:\8270\SV112\181205ical\
Data File : ABNL10.D
Acq On : 05 Dec 2018 08:17 pm
Operator : sv112:cb
Sample : IL1,32,,ABNL200 Lot#7788
Misc : WG1186464,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 06 11:54:44 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 11:43:21 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\181205ical\ABNL7.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	5.066	108	959690	195.694	ug/ml	99
16) Hexachloroethane	5.280	117	456046	204.923	ug/ml	96
17) n-Nitrosodi-n-propylamine	5.215	70	720286	195.206	ug/ml	99
18) 3-Methylphenol/4-Methy...	5.224	108	1009201	193.741	ug/ml	99
20) Nitrobenzene	5.352	77	1080216	193.843	ug/ml	98
21) Isophorone	5.600	82	1957679	195.650	ug/ml	98
22) 2-Nitrophenol	5.666	139	559679	208.191	ug/ml	95
23) 2,4-Dimethylphenol	5.740	107	1032830	198.977	ug/ml	99
24) Bis(2-chloroethoxy)met...	5.830	93	1247863	194.333	ug/ml	99
25) 2,4-Dichlorophenol	5.908	162	858314	198.563	ug/ml	98
26) 1,2,4-Trichlorobenzene	5.986	180	896000	196.315	ug/ml	100
35) Naphthalene	6.054	128	2909579	192.970	ug/ml	100
36) Benzoic Acid	5.896	105	855601	241.011	ug/ml	98
37) 4-Chloroaniline	6.119	65	375797	200.606	ug/ml	91
38) Hexachlorobutadiene	6.200	225	474165	211.304	ug/ml	99
39) p-Chloro-m-cresol	6.617	107	912915	209.303	ug/ml	97
40) 2-Methylnaphthalene	6.735	142	1952218	196.458	ug/ml	99
41) 1-Methylnaphthalene	6.831	115	674175	201.599	ug/ml	99
42) Hexachlorocyclopentadiene	6.906	237	598100	223.964	ug/ml	100
43) 2,4,6-Trichlorophenol	7.021	196	591698	208.893	ug/ml	100
44) 2,4,5-Trichlorophenol	7.052	196	621362	209.792	ug/ml	100
46) 2-Chloronaphthalene	7.207	162	1766775	195.066	ug/ml	99
47) 2-Nitroaniline	7.319	138	666422	211.632	ug/ml	93
48) 1,4-Dinitrobenzene	7.453	168	295750	219.093	ug/ml	96
49) 1,3-Dinitrobenzene	7.531	168	313417	204.979	ug/ml	91
50) Dimethyl phthalate	7.527	163	2056326	194.065	ug/ml	100
51) Acenaphthylene	7.611	152	2795015	188.440	ug/ml	99
52) 2,6-Dinitrotoluene	7.568	165	472173	209.156	ug/ml	96
53) 1,2-Dinitrobenzene	7.618	168	198174	198.479	ug/ml#	1
63) 3-Nitroaniline	7.726	138	593050	210.136	ug/ml	95
64) Acenaphthene	7.785	154	1596706	196.850	ug/ml	99
65) 2,4-Dinitrophenol	7.826	184	263536	254.981	ug/ml	99
66) Dibenzofuran	7.953	168	2365985	189.333	ug/ml	99
67) 2,4-Dinitrotoluene	7.960	165	612789	204.622	ug/ml	92
68) 4-Nitrophenol	7.910	65	447247	212.011	ug/ml	95
69) 2,3,5,6-Tetrachlorophenol	8.040	232	485413	215.107	ug/ml	100
70) 2,3,4,6-Tetrachlorophenol	8.084	232	485993	211.756	ug/ml	100
71) Diethyl phthalate	8.221	149	2195039	203.663	ug/ml	98
72) Fluorene	8.289	166	1907842	195.109	ug/ml	99
73) 4-Chlorophenyl phenyl ...	8.301	204	894232	199.791	ug/ml	94

Data Path : I:\8270\SV112\181205ical\
Data File : ABNL10.D
Acq On : 05 Dec 2018 08:17 pm
Operator : sv112:cb
Sample : IL1,32,,ABNL200 Lot#7788
Misc : WG1186464,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 06 11:54:44 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 11:43:21 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\181205ical\ABNL7.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74)	4-Nitroaniline	8.326	138	580836	208.924	ug/ml	97
75)	4,6-Dinitro-o-cresol	8.357	198	324293	235.014	ug/ml	90
76)	NDPA/DPA	8.423	169	1679481	195.454	ug/ml	100
77)	Azobenzene	8.457	77	2014627	196.125	ug/ml	98
79)	4-Bromophenyl phenyl e...	8.777	248	518562	213.221	ug/ml	97
80)	Hexachlorobenzene	8.830	284	577778	216.334	ug/ml	98
81)	Pentachlorophenol	9.023	266	378972	228.469	ug/ml	98
88)	Phenanthrene	9.218	178	2793754	199.129	ug/ml	99
89)	Anthracene	9.268	178	2854091	200.684	ug/ml	99
90)	Carbazole	9.436	167	2737090	198.739	ug/ml	100
91)	Di-n-butylphthalate	9.824	149	3572519	204.598	ug/ml	99
92)	Fluoranthene	10.384	202	3031387	206.084	ug/ml	99
93)	Benzidine	10.536	184	2398500	222.604	ug/ml	100
94)	Pyrene	10.605	202	3095505	198.355	ug/ml	98
96)	Butyl benzyl phthalate	11.326	149	1699524	219.242	ug/ml	97
104)	Benzo(a)anthracene	11.857	228	2985950	208.903	ug/ml	100
105)	3,3'-Dichlorobenzidine	11.857	252	1186831	218.253	ug/ml	99
106)	Chrysene	11.901	228	2743863	207.658	ug/ml	99
107)	Bis(2-ethylhexyl)phtha...	11.972	149	2407295	213.936	ug/ml	97
108)	Di-n-octylphthalate	12.659	149	4203139	222.395	ug/ml	95
109)	Benzo(b)fluoranthene	12.982	252	3003946	228.703	ug/ml	100
110)	Benzo(k)fluoranthene	13.013	252	2822540	209.390	ug/ml	99
111)	Benzo(a)pyrene	13.302	252	2897418	223.255	ug/ml	99
113)	Indeno(1,2,3-cd)pyrene	14.387	276	3048470M6	240.182	ug/mL	
114)	Dibenzo(a,h)anthracene	14.412	278	2879802	222.404	ug/ml	98
115)	Benzo(ghi)perylene	14.667	276	2841390	224.626	ug/ml	93

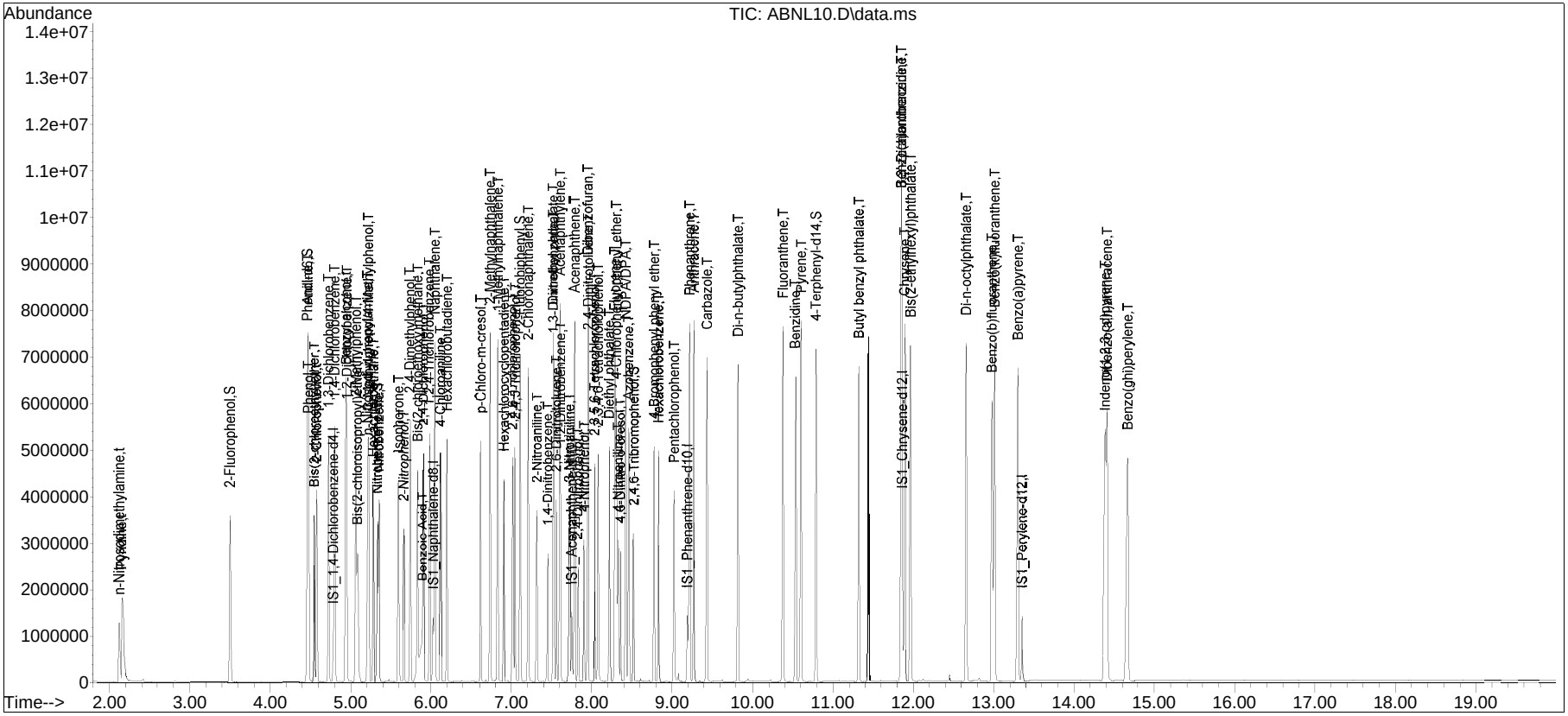
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181205ical\
Data File : ABNL10.D
Acq On : 05 Dec 2018 08:17 pm
Operator : sv112:cb
Sample : IL1,32,,ABNL200 Lot#7788
Misc : WG1186464,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 06 11:54:44 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 11:43:21 2018
Response via : Initial Calibration

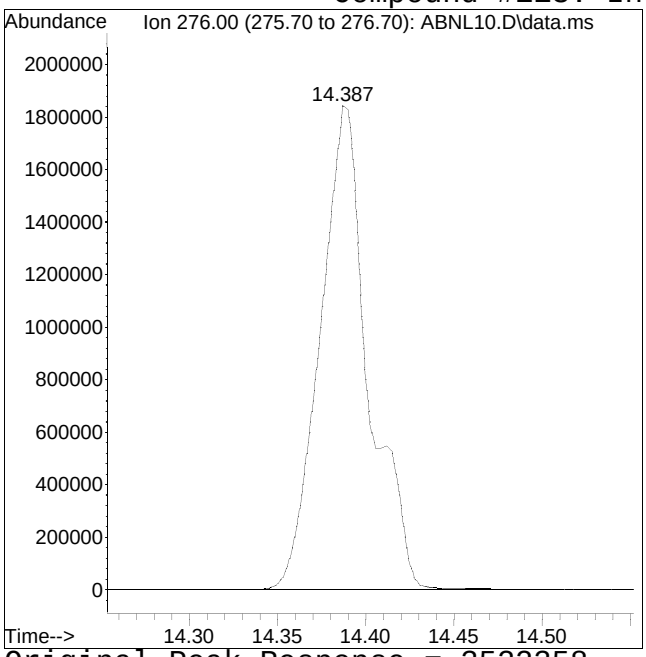
Sub List : ABNical - ABN ical sublistal\ABNL7.D•



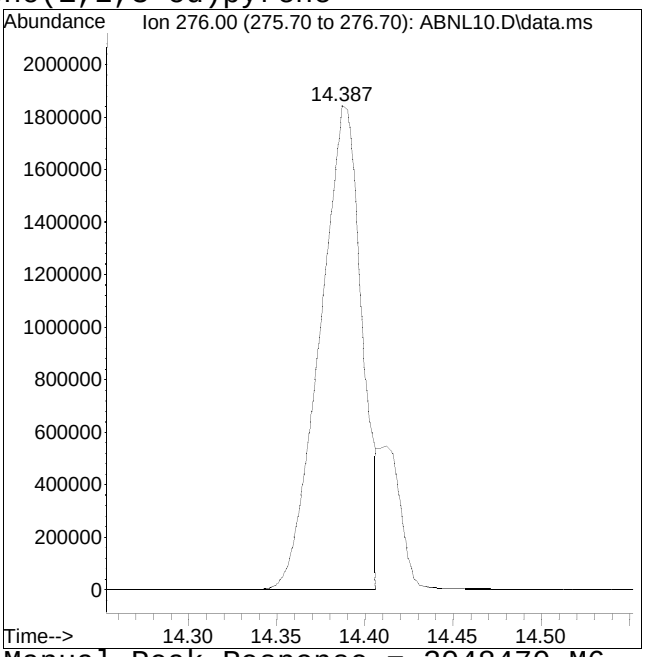
Manual Integration Report

Data Path : I:\8270\SV112\181205ical\ QMethod : FS181205SV112.m
Data File : ABNL10.D Operator : sv112:cb
Date Inj'd : 12/5/2018 8:17 pm Instrument : SV112
Sample : IL1,32,,ABNL200 Lot#7788 Quant Date : 12/6/2018 11:44 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 3522358



Manual Peak Response = 3048470 M6
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181205ical\
Data File : ABNL9.D
Acq On : 05 Dec 2018 08:43 pm
Operator : sv112:cb
Sample : IL2,32,,ABNL150 Lot#7797
Misc : WG1186464,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 06 12:22:55 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 11:43:21 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\181205ical\ABNL7.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.783	152	138804	40.000	ug/ml	# 0.00
Standard Area 1 = 153313			Recovery = 90.54%			
34) IS1_Naphthalene-d8	6.032	136	568202	40.000	ug/ml	0.00
Standard Area 1 = 638567			Recovery = 88.98%			
62) IS1_Acenaphthene-d10	7.748	164	284595	40.000	ug/ml	0.00
Standard Area 1 = 323009			Recovery = 88.11%			
87) IS1_Phenanthrene-d10	9.190	188	493712	40.000	ug/ml	0.00
Standard Area 1 = 563292			Recovery = 87.65%			
103) IS1_Chrysene-d12	11.866	240	446947	40.000	ug/ml	0.00
Standard Area 1 = 518627			Recovery = 86.18%			
112) IS1_Perylene-d12	13.349	264	458229	40.000	ug/ml	0.00
Standard Area 1 = 513574			Recovery = 89.22%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.499	112	753747	154.079	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 308.16%#			
7) Phenol-d6	4.457	99	890195	149.380	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 298.76%#			
19) Nitrobenzene-d5	5.330	82	790190	152.240	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 608.96%#			
45) 2-Fluorobiphenyl	7.108	172	1487967	145.522	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 582.09%#			
78) 2,4,6-Tribromophenol	8.519	330	203990	162.182	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 324.36%#			
95) 4-Terphenyl-d14	10.791	244	1627531	150.493	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 601.97%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.119	74	490729	151.774	ug/ml	90
3) Pyridine	2.154	79	865212	154.646	ug/ml	88
5) Aniline	4.463	93	1150628	145.559	ug/ml#	56
6) 2-Chlorophenol	4.578	128	801958	152.481	ug/ml	97
8) Phenol	4.472	94	1018402	147.197	ug/ml#	53
9) Bis(2-chloroethyl)ether	4.544	93	721968	149.320	ug/ml	97
10) 1,3-Dichlorobenzene	4.727	146	841166	151.162	ug/ml	99
11) 1,4-Dichlorobenzene	4.802	146	845228	148.919	ug/ml	98
12) 1,2-Dichlorobenzene	4.948	146	804280	149.329	ug/ml	98
13) Benzyl alcohol	4.938	79	617207	151.139	ug/ml	97
14) Bis(2-chloroisopropyl)...	5.085	45	988585	146.049	ug/ml#	77

Data Path : I:\8270\SV112\181205ical\
Data File : ABNL9.D
Acq On : 05 Dec 2018 08:43 pm
Operator : sv112:cb
Sample : IL2,32,,ABNL150 Lot#7797
Misc : WG1186464,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 06 12:22:55 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 11:43:21 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\181205ical\ABNL7.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	5.063	108	702245	149.437	ug/ml	99
16) Hexachloroethane	5.280	117	327035	153.355	ug/ml	96
17) n-Nitrosodi-n-propylamine	5.212	70	526873	149.011	ug/ml	99
18) 3-Methylphenol/4-Methy...	5.221	108	735006	147.251	ug/ml	99
20) Nitrobenzene	5.349	77	796420	149.143	ug/ml	98
21) Isophorone	5.594	82	1420772	148.178	ug/ml	98
22) 2-Nitrophenol	5.666	139	401042	155.681	ug/ml	96
23) 2,4-Dimethylphenol	5.737	107	746864	150.154	ug/ml	98
24) Bis(2-chloroethoxy)met...	5.827	93	908532	147.653	ug/ml	100
25) 2,4-Dichlorophenol	5.905	162	629664	152.014	ug/ml	98
26) 1,2,4-Trichlorobenzene	5.986	180	649737	148.561	ug/ml	99
35) Naphthalene	6.051	128	2183268	146.723	ug/ml	100
36) Benzoic Acid	5.877	105	601843	171.783	ug/ml	98
37) 4-Chloroaniline	6.120	65	274969	148.732	ug/ml	91
38) Hexachlorobutadiene	6.200	225	343947	155.311	ug/ml	100
39) p-Chloro-m-cresol	6.614	107	660525	153.449	ug/ml	97
40) 2-Methylnaphthalene	6.735	142	1452719	148.134	ug/ml	99
41) 1-Methylnaphthalene	6.828	115	497503	150.745	ug/ml	99
42) Hexachlorocyclopentadiene	6.906	237	425686	161.520	ug/ml	100
43) 2,4,6-Trichlorophenol	7.021	196	430315	153.937	ug/ml	100
44) 2,4,5-Trichlorophenol	7.049	196	448805	153.544	ug/ml	100
46) 2-Chloronaphthalene	7.207	162	1318623	147.520	ug/ml	99
47) 2-Nitroaniline	7.316	138	482021	155.106	ug/ml	93
48) 1,4-Dinitrobenzene	7.450	168	212265	159.336	ug/ml	97
49) 1,3-Dinitrobenzene	7.527	168	232598	154.143	ug/ml	90
50) Dimethyl phthalate	7.524	163	1526650	145.991	ug/ml	100
51) Acenaphthylene	7.608	152	2095275	143.140	ug/ml	99
52) 2,6-Dinitrotoluene	7.565	165	342494	153.728	ug/ml	96
53) 1,2-Dinitrobenzene	7.611	168	146044	148.212	ug/ml#	1
63) 3-Nitroaniline	7.723	138	432068	153.645	ug/ml	95
64) Acenaphthene	7.782	154	1199400	148.399	ug/ml	99
65) 2,4-Dinitrophenol	7.820	184	186260	180.861	ug/ml	99
66) Dibenzofuran	7.950	168	1782239	143.132	ug/ml	100
67) 2,4-Dinitrotoluene	7.953	165	453511	151.980	ug/ml	93
68) 4-Nitrophenol	7.907	65	322055	153.214	ug/ml	95
69) 2,3,5,6-Tetrachlorophenol	8.037	232	352357	156.705	ug/ml	99
70) 2,3,4,6-Tetrachlorophenol	8.081	232	352365	154.083	ug/ml	99
71) Diethyl phthalate	8.218	149	1616246	150.499	ug/ml	99
72) Fluorene	8.286	166	1417014	145.434	ug/ml	100
73) 4-Chlorophenyl phenyl ...	8.301	204	661744	148.379	ug/ml	94

Data Path : I:\8270\SV112\181205ical\
Data File : ABNL9.D
Acq On : 05 Dec 2018 08:43 pm
Operator : sv112:cb
Sample : IL2,32,,ABNL150 Lot#7797
Misc : WG1186464,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 06 12:22:55 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 11:43:21 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\181205ical\ABNL7.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74) 4-Nitroaniline	8.320	138	425164	153.478	ug/ml	97
75) 4,6-Dinitro-o-cresol	8.351	198	232678	169.226	ug/ml	90
76) NDPA/DPA	8.420	169	1253274	146.377	ug/ml	100
77) Azobenzene	8.454	77	1495450	146.106	ug/ml	98
79) 4-Bromophenyl phenyl e...	8.774	248	371199	153.176	ug/ml	98
80) Hexachlorobenzene	8.827	284	412744	155.096	ug/ml	99
81) Pentachlorophenol	9.019	266	267867	162.068	ug/ml	99
88) Phenanthrene	9.215	178	2092733	147.559	ug/ml	99
89) Anthracene	9.265	178	2138469	148.749	ug/ml	99
90) Carbazole	9.433	167	2037126	146.325	ug/ml	100
91) Di-n-butylphthalate	9.821	149	2634465	149.253	ug/ml	100
92) Fluoranthene	10.381	202	2254620	151.629	ug/ml	99
93) Benzidine	10.533	184	1740215	159.772	ug/ml	100
94) Pyrene	10.601	202	2330845	147.750	ug/ml	99
96) Butyl benzyl phthalate	11.323	149	1241363	158.417	ug/ml	98
104) Benzo(a)anthracene	11.857	228	2218536	154.079	ug/ml	100
105) 3,3'-Dichlorobenzidine	11.854	252	878706	160.410	ug/ml	100
106) Chrysene	11.894	228	2028338	152.385	ug/ml	99
107) Bis(2-ethylhexyl)phtha...	11.969	149	1777825	156.840	ug/ml	98
108) Di-n-octylphthalate	12.659	149	3094456	162.536	ug/ml	96
109) Benzo(b)fluoranthene	12.979	252	2136531	161.474	ug/ml	100
110) Benzo(k)fluoranthene	13.010	252	2144473	157.925	ug/ml	99
111) Benzo(a)pyrene	13.299	252	2130527	162.964	ug/ml	99
113) Indeno(1,2,3-cd)pyrene	14.381	276	2217954	172.225	ug/mL	97
114) Dibenzo(a,h)anthracene	14.406	278	2129462	162.083	ug/ml	99
115) Benzo(ghi)perylene	14.661	276	2093160	163.086	ug/ml	93

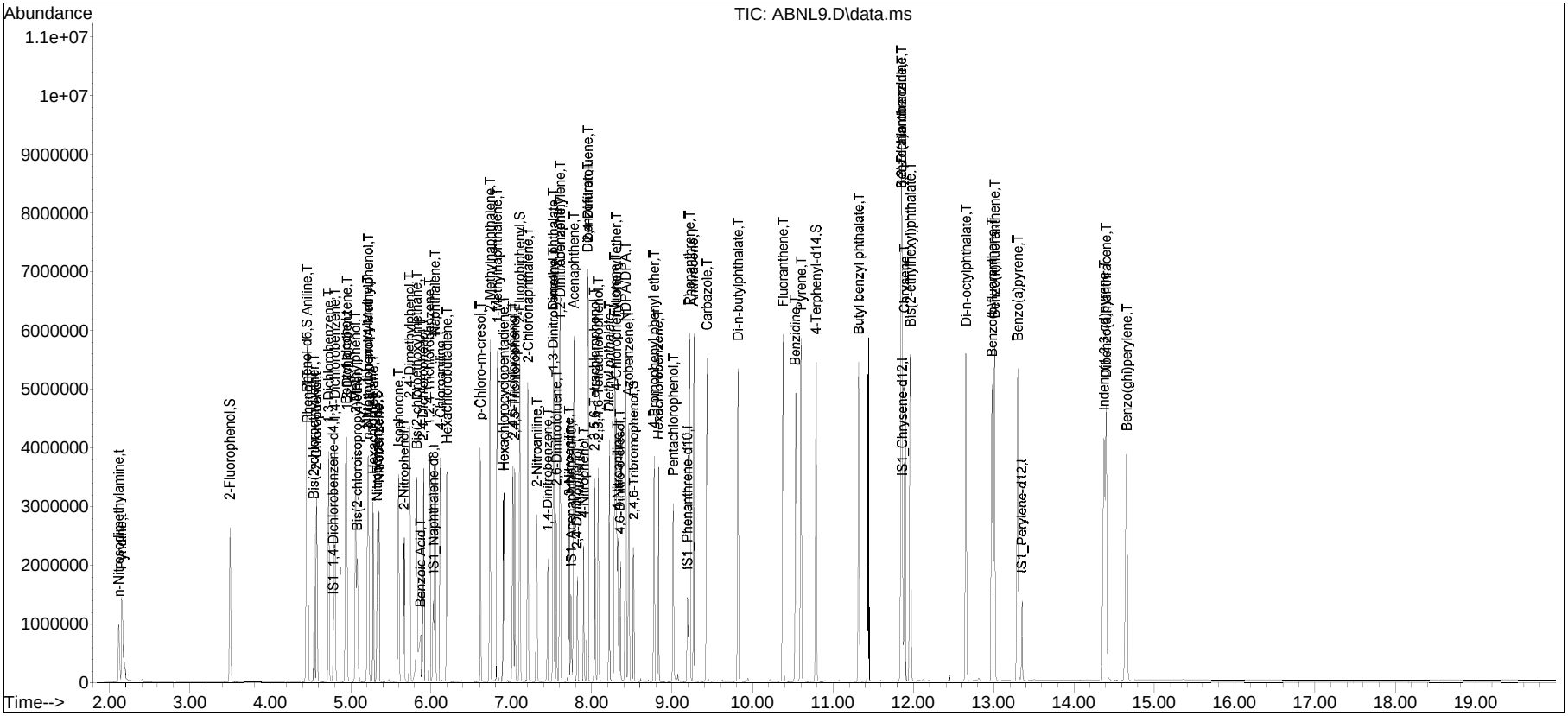
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181205ical\
Data File : ABNL9.D
Acq On : 05 Dec 2018 08:43 pm
Operator : sv112:cb
Sample : IL2,32,,ABNL150 Lot#7797
Misc : WG1186464,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 06 12:22:55 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 11:43:21 2018
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublistal\ABNL7.D•



Manual Integration Report

Data Path	: I:\8270\SV112\181205ical\	QMethod	: FS181205SV112.m
Data File	: ABNL9.D	Operator	: sv112:cb
Date Inj'd	: 12/5/2018 8:43 pm	Instrument	: SV112
Sample	: IL2,32,,ABNL150 Lot#7797	Quant Date	: 12/6/2018 11:45 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181205ical\
Data File : ABNL8.D
Acq On : 05 Dec 2018 09:08 pm
Operator : sv112:cb
Sample : IL3,32,,ABNL100 Lot#7796
Misc : WG1186464,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 06 12:17:15 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 11:43:21 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\181205ical\ABNL7.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.783	152	138684	40.000	ug/ml	# 0.00
Standard Area 1 = 153313			Recovery = 90.46%			
34) IS1_Naphthalene-d8	6.029	136	567068	40.000	ug/ml	0.00
Standard Area 1 = 638567			Recovery = 88.80%			
62) IS1_Acenaphthene-d10	7.748	164	282024	40.000	ug/ml	0.00
Standard Area 1 = 323009			Recovery = 87.31%			
87) IS1_Phenanthrene-d10	9.190	188	484118	40.000	ug/ml	0.00
Standard Area 1 = 563292			Recovery = 85.94%			
103) IS1_Chrysene-d12	11.863	240	443848	40.000	ug/ml	0.00
Standard Area 1 = 518627			Recovery = 85.58%			
112) IS1_Perylene-d12	13.349	264	446655	40.000	ug/ml	0.00
Standard Area 1 = 513574			Recovery = 86.97%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.499	112	498496	101.989	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 203.98%#			
7) Phenol-d6	4.454	99	597199	100.301	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 200.60%#			
19) Nitrobenzene-d5	5.330	82	525444	101.321	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 405.28%#			
45) 2-Fluorobiphenyl	7.105	172	1018061	99.764	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 399.06%#			
78) 2,4,6-Tribromophenol	8.516	330	132154	106.027	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 212.05%#			
95) 4-Terphenyl-d14	10.788	244	1087593	102.559	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 410.24%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.119	74	324420	100.424	ug/ml	90
3) Pyridine	2.157	79	565853	101.227	ug/ml	89
5) Aniline	4.460	93	781861	98.994	ug/ml#	56
6) 2-Chlorophenol	4.578	128	529020	100.673	ug/ml	97
8) Phenol	4.469	94	693778	100.364	ug/ml#	54
9) Bis(2-chloroethyl)ether	4.544	93	486177	100.640	ug/ml	97
10) 1,3-Dichlorobenzene	4.727	146	562680	101.204	ug/ml	99
11) 1,4-Dichlorobenzene	4.802	146	571729	100.819	ug/ml	98
12) 1,2-Dichlorobenzene	4.948	146	543758	101.046	ug/ml	98
13) Benzyl alcohol	4.935	79	412758	101.162	ug/ml	97
14) Bis(2-chloroisopropyl)...	5.081	45	670504	99.143	ug/ml	94

Data Path : I:\8270\SV112\181205ical\
Data File : ABNL8.D
Acq On : 05 Dec 2018 09:08 pm
Operator : sv112:cb
Sample : IL3,32,,ABNL100 Lot#7796
Misc : WG1186464,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 06 12:17:15 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 11:43:21 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\181205ical\ABNL7.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	5.063	108	470043	100.111	ug/ml	100
16) Hexachloroethane	5.280	117	218120	102.371	ug/ml	97
17) n-Nitrosodi-n-propylamine	5.206	70	353965	100.195	ug/ml	99
18) 3-Methylphenol/4-Methy...	5.218	108	496181	99.491	ug/ml	100
20) Nitrobenzene	5.349	77	534993	100.273	ug/ml	98
21) Isophorone	5.591	82	961355	100.351	ug/ml	99
22) 2-Nitrophenol	5.663	139	267494	103.929	ug/ml	95
23) 2,4-Dimethylphenol	5.737	107	503133	101.241	ug/ml	99
24) Bis(2-chloroethoxy)met...	5.824	93	618084	100.537	ug/ml	100
25) 2,4-Dichlorophenol	5.902	162	421763	101.910	ug/ml	98
26) 1,2,4-Trichlorobenzene	5.983	180	437657	100.156	ug/ml	99
35) Naphthalene	6.051	128	1496390	100.764	ug/ml	100
36) Benzoic Acid	5.855	105	383895	109.793	ug/ml	98
37) 4-Chloroaniline	6.116	65	186707	101.193	ug/ml	92
38) Hexachlorobutadiene	6.197	225	229391	103.790	ug/ml	99
39) p-Chloro-m-cresol	6.614	107	441959	102.879	ug/ml	97
40) 2-Methylnaphthalene	6.735	142	984485	100.589	ug/ml	99
41) 1-Methylnaphthalene	6.828	115	334903	101.680	ug/ml	99
42) Hexachlorocyclopentadiene	6.903	237	280258	106.552	ug/ml	99
43) 2,4,6-Trichlorophenol	7.021	196	283589	101.651	ug/ml	100
44) 2,4,5-Trichlorophenol	7.049	196	301933	103.503	ug/ml	99
46) 2-Chloronaphthalene	7.204	162	894634	100.287	ug/ml	99
47) 2-Nitroaniline	7.313	138	320659	103.389	ug/ml	94
48) 1,4-Dinitrobenzene	7.447	168	139120	104.639	ug/ml	97
49) 1,3-Dinitrobenzene	7.524	168	156123	103.670	ug/ml	93
50) Dimethyl phthalate	7.518	163	1036874	99.353	ug/ml	100
51) Acenaphthylene	7.605	152	1444853	98.903	ug/ml	99
52) 2,6-Dinitrotoluene	7.562	165	226789	101.998	ug/ml	97
53) 1,2-Dinitrobenzene	7.605	168	98051	99.705	ug/ml#	1
63) 3-Nitroaniline	7.717	138	286333	102.749	ug/ml	97
64) Acenaphthene	7.779	154	813442	101.563	ug/ml	99
65) 2,4-Dinitrophenol	7.817	184	117911	115.537	ug/ml	98
66) Dibenzofuran	7.950	168	1233757	99.987	ug/ml	99
67) 2,4-Dinitrotoluene	7.950	165	301841	102.074	ug/ml	95
68) 4-Nitrophenol	7.900	65	215189	103.307	ug/ml	96
69) 2,3,5,6-Tetrachlorophenol	8.037	232	232163	104.192	ug/ml	99
70) 2,3,4,6-Tetrachlorophenol	8.078	232	236261	104.255	ug/ml	99
71) Diethyl phthalate	8.214	149	1077482	101.246	ug/ml	99
72) Fluorene	8.283	166	972169	100.687	ug/ml	99
73) 4-Chlorophenyl phenyl ...	8.298	204	450422	101.916	ug/ml	94

Data Path : I:\8270\SV112\181205ical\
Data File : ABNL8.D
Acq On : 05 Dec 2018 09:08 pm
Operator : sv112:cb
Sample : IL3,32,,ABNL100 Lot#7796
Misc : WG1186464,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 06 12:17:15 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 11:43:21 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\181205ical\ABNL7.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74)	4-Nitroaniline	8.314	138	282276	102.827	ug/ml	97
75)	4,6-Dinitro-o-cresol	8.345	198	148253	108.807	ug/ml	91
76)	NDPA/DPA	8.416	169	844588	99.543	ug/ml	99
77)	Azobenzene	8.451	77	1024183	100.975	ug/ml	98
79)	4-Bromophenyl phenyl e...	8.774	248	248815	103.610	ug/ml	98
80)	Hexachlorobenzene	8.824	284	273443	103.688	ug/ml	100
81)	Pentachlorophenol	9.016	266	173322	105.821	ug/ml	98
88)	Phenanthrene	9.212	178	1406195	101.116	ug/ml	99
89)	Anthracene	9.262	178	1439172	102.090	ug/ml	99
90)	Carbazole	9.430	167	1379199	101.030	ug/ml	100
91)	Di-n-butylphthalate	9.818	149	1792919	103.589	ug/ml	100
92)	Fluoranthene	10.378	202	1503153	103.094	ug/ml	100
93)	Benzidine	10.533	184	1120272	104.892	ug/ml	100
94)	Pyrene	10.598	202	1547050	100.010	ug/ml	99
96)	Butyl benzyl phthalate	11.319	149	809683	105.375	ug/ml	98
104)	Benzo(a)anthracene	11.854	228	1477868	103.356	ug/ml	100
105)	3,3'-Dichlorobenzidine	11.851	252	569748	104.735	ug/ml	100
106)	Chrysene	11.891	228	1364601	103.236	ug/ml	100
107)	Bis(2-ethylhexyl)phtha...	11.966	149	1176723	104.536	ug/ml	98
108)	Di-n-octylphthalate	12.656	149	2041513	107.979	ug/ml	96
109)	Benzo(b)fluoranthene	12.976	252	1417951	107.914	ug/ml	99
110)	Benzo(k)fluoranthene	13.004	252	1419674	105.279	ug/ml	99
111)	Benzo(a)pyrene	13.293	252	1396792	107.587	ug/ml	99
113)	Indeno(1,2,3-cd)pyrene	14.375	276	1412599	112.531	ug/mL	99
114)	Dibenzo(a,h)anthracene	14.400	278	1384623	108.121	ug/ml	99
115)	Benzo(ghi)perylene	14.648	276	1369731	109.487	ug/ml	94

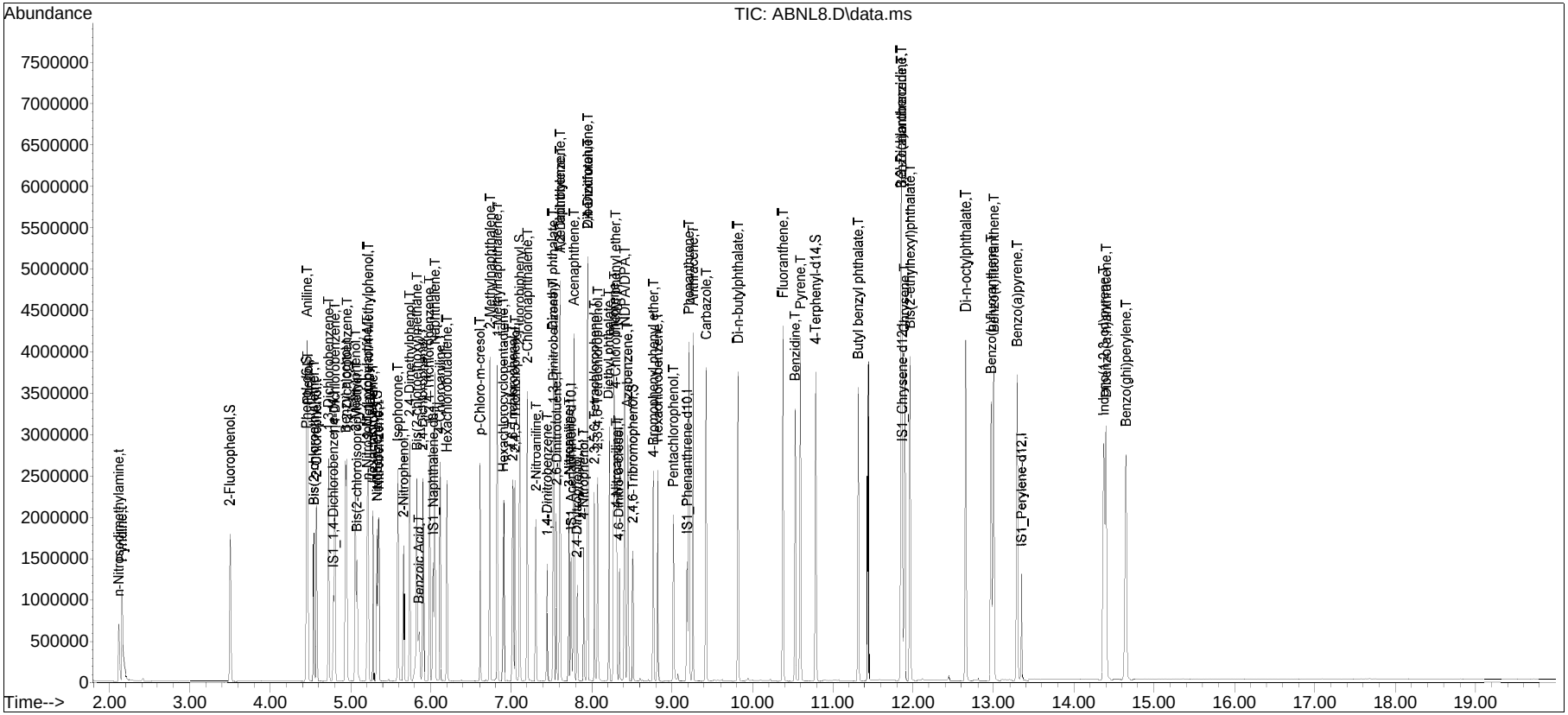
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181205ical\
Data File : ABNL8.D
Acq On : 05 Dec 2018 09:08 pm
Operator : sv112:cb
Sample : IL3,32,,ABNL100 Lot#7796
Misc : WG1186464,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 06 12:17:15 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 11:43:21 2018
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublistal\ABNL7.D•



Manual Integration Report

Data Path	: I:\8270\SV112\181205ical\	QMethod	: FS181205SV112.m
Data File	: ABNL8.D	Operator	: sv112:cb
Date Inj'd	: 12/5/2018 9:08 pm	Instrument	: SV112
Sample	: IL3,32,,ABNL100 Lot#7796	Quant Date	: 12/6/2018 11:45 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181205ical\
Data File : ABNL7.D
Acq On : 05 Dec 2018 09:34 pm
Operator : sv112:cb
Sample : IL4,32,,ABNL50 Lot#7795
Misc : WG1186464,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 06 11:42:30 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 11:42:12 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\181205ical\ABNL7.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.783	152	153313	40.000	ug/ml	0.00
Standard Area 1 = 153313			Recovery = 100.00%			
34) IS1_Naphthalene-d8	6.030	136	638567	40.000	ug/ml	0.00
Standard Area 1 = 638567			Recovery = 100.00%			
62) IS1_Acenaphthene-d10	7.745	164	323009	40.000	ug/ml	0.00
Standard Area 1 = 323009			Recovery = 100.00%			
87) IS1_Phenanthrene-d10	9.191	188	563292	40.000	ug/ml	0.00
Standard Area 1 = 563292			Recovery = 100.00%			
103) IS1_Chrysene-d12	11.860	240	518627	40.000	ug/ml	0.00
Standard Area 1 = 518627			Recovery = 100.00%			
112) IS1_Perylene-d12	13.349	264	513574	40.000	ug/ml	0.00
Standard Area 1 = 513574			Recovery = 100.00%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.500	112	270165	50.000	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 100.00%			
7) Phenol-d6	4.454	99	329108	50.000	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 100.00%			
19) Nitrobenzene-d5	5.327	82	286648	50.000	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 200.00%#			
45) 2-Fluorobiphenyl	7.105	172	574565	50.000	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 200.00%#			
78) 2,4,6-Tribromophenol	8.516	330	71378	50.000	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 100.00%			
95) 4-Terphenyl-d14	10.785	244	616941	50.000	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 200.00%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.120	74	178563	50.000	ug/ml	89
3) Pyridine	2.157	79	308981	50.000	ug/ml	89
5) Aniline	4.460	93	436559	50.000	ug/ml#	56
6) 2-Chlorophenol	4.575	128	290458	50.000	ug/ml	96
8) Phenol	4.466	94	382091	50.000	ug/ml#	52
9) Bis(2-chloroethyl)ether	4.541	93	267022	50.000	ug/ml	97
10) 1,3-Dichlorobenzene	4.727	146	307317	50.000	ug/ml	99
11) 1,4-Dichlorobenzene	4.799	146	313452	50.000	ug/ml	98
12) 1,2-Dichlorobenzene	4.948	146	297448	50.000	ug/ml	98
13) Benzyl alcohol	4.932	79	225528	50.000	ug/ml	97
14) Bis(2-chloroisopropyl)...	5.078	45	373821	50.000	ug/ml	96

Data Path : I:\8270\SV112\181205ical\
Data File : ABNL7.D
Acq On : 05 Dec 2018 09:34 pm
Operator : sv112:cb
Sample : IL4,32,,ABNL50 Lot#7795
Misc : WG1186464,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 06 11:42:30 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 11:42:12 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\181205ical\ABNL7.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	5.060	108	259524	50.000	ug/ml	99
16) Hexachloroethane	5.281	117	117772	50.000	ug/ml	96
17) n-Nitrosodi-n-propylamine	5.203	70	195270	50.000	ug/ml	100
18) 3-Methylphenol/4-Methy...	5.215	108	275664	50.000	ug/ml	99
20) Nitrobenzene	5.346	77	294907	50.000	ug/ml	99
21) Isophorone	5.588	82	529525	50.000	ug/ml	99
22) 2-Nitrophenol	5.663	139	142266	50.000	ug/ml	96
23) 2,4-Dimethylphenol	5.734	107	274695	50.000	ug/ml	98
24) Bis(2-chloroethoxy)met...	5.824	93	339817	50.000	ug/ml	98
25) 2,4-Dichlorophenol	5.902	162	228756	50.000	ug/ml	98
26) 1,2,4-Trichlorobenzene	5.983	180	241535	50.000	ug/ml	100
35) Naphthalene	6.048	128	836146	50.000	ug/ml	100
36) Benzoic Acid	5.831	105	196869	50.000	ug/ml	98
37) 4-Chloroaniline	6.117	65	103885	50.000	ug/ml	92
38) Hexachlorobutadiene	6.197	225	124441	50.000	ug/ml	99
39) p-Chloro-m-cresol	6.611	107	241879	50.000	ug/ml	97
40) 2-Methylnaphthalene	6.732	142	551062	50.000	ug/ml	99
41) 1-Methylnaphthalene	6.825	115	185450	50.000	ug/ml	97
42) Hexachlorocyclopentadiene	6.903	237	148094	50.000	ug/ml	98
43) 2,4,6-Trichlorophenol	7.018	196	157079	50.000	ug/ml	99
44) 2,4,5-Trichlorophenol	7.046	196	164247	50.000	ug/ml	100
46) 2-Chloronaphthalene	7.201	162	502276	50.000	ug/ml	99
47) 2-Nitroaniline	7.313	138	174627	50.000	ug/ml	94
48) 1,4-Dinitrobenzene	7.444	168	74858	50.000	ug/ml	97
49) 1,3-Dinitrobenzene	7.521	168	84792	50.000	ug/ml	95
50) Dimethyl phthalate	7.515	163	587606	50.000	ug/ml	100
51) Acenaphthylene	7.605	152	822534	50.000	ug/ml	100
52) 2,6-Dinitrotoluene	7.559	165	125191	50.000	ug/ml	97
53) 1,2-Dinitrobenzene	7.602	168	55370	50.000	ug/ml#	1
63) 3-Nitroaniline	7.714	138	159585	50.000	ug/ml	96
64) Acenaphthene	7.779	154	458659	50.000	ug/ml	99
65) 2,4-Dinitrophenol	7.817	184	58443	50.000	ug/ml	98
66) Dibenzofuran	7.947	168	706621	50.000	ug/ml	99
67) 2,4-Dinitrotoluene	7.947	165	169340	50.000	ug/ml	97
68) 4-Nitrophenol	7.898	65	119286	50.000	ug/ml	97
69) 2,3,5,6-Tetrachlorophenol	8.034	232	127602	50.000	ug/ml	99
70) 2,3,4,6-Tetrachlorophenol	8.078	232	129776	50.000	ug/ml	98
71) Diethyl phthalate	8.211	149	609439	50.000	ug/ml	99
72) Fluorene	8.280	166	552924	50.000	ug/ml	99
73) 4-Chlorophenyl phenyl ...	8.299	204	253090	50.000	ug/ml	94

Data Path : I:\8270\SV112\181205ical\
Data File : ABNL7.D
Acq On : 05 Dec 2018 09:34 pm
Operator : sv112:cb
Sample : IL4,32,,ABNL50 Lot#7795
Misc : WG1186464,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 06 11:42:30 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 11:42:12 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\181205ical\ABNL7.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74)	4-Nitroaniline	8.308	138	157205	50.000	ug/ml	99
75)	4,6-Dinitro-o-cresol	8.342	198	78027	50.000	ug/ml	91
76)	NDPA/DPA	8.414	169	485882	50.000	ug/ml	100
77)	Azobenzene	8.451	77	580853	50.001	ug/ml	99
79)	4-Bromophenyl phenyl e...	8.771	248	137522	50.000	ug/ml	99
80)	Hexachlorobenzene	8.824	284	151021	50.000	ug/ml	99
81)	Pentachlorophenol	9.017	266	93795	50.000	ug/ml	98
88)	Phenanthrene	9.212	178	809057	50.000	ug/ml	99
89)	Anthracene	9.262	178	820125	50.000	ug/ml	99
90)	Carbazole	9.430	167	794201	50.000	ug/ml	100
91)	Di-n-butylphthalate	9.818	149	1006927	50.000	ug/ml	100
92)	Fluoranthene	10.378	202	848246	50.000	ug/ml	99
93)	Benzidine	10.530	184	621343	50.000	ug/ml	100
94)	Pyrene	10.595	202	899942	50.000	ug/ml	99
96)	Butyl benzyl phthalate	11.320	149	447021	50.000	ug/ml	99
104)	Benzo(a)anthracene	11.851	228	835396	50.000	ug/ml	100
105)	3,3'-Dichlorobenzidine	11.848	252	317821	50.000	ug/ml	99
106)	Chrysene	11.888	228	772267	50.000	ug/ml	100
107)	Bis(2-ethylhexyl)phtha...	11.966	149	657658	50.000	ug/ml	98
108)	Di-n-octylphthalate	12.656	149	1104597	50.000	ug/ml	97
109)	Benzo(b)fluoranthene	12.973	252	767671	50.000	ug/ml	100
110)	Benzo(k)fluoranthene	13.001	252	787842	50.000	ug/ml	99
111)	Benzo(a)pyrene	13.290	252	758515	50.000	ug/ml	99
113)	Indeno(1,2,3-cd)pyrene	14.369	276	721683	50.000	ug/mL	97
114)	Dibenzo(a,h)anthracene	14.394	278	736248	50.000	ug/ml	99
115)	Benzo(ghi)perylene	14.642	276	719242	50.000	ug/ml	94

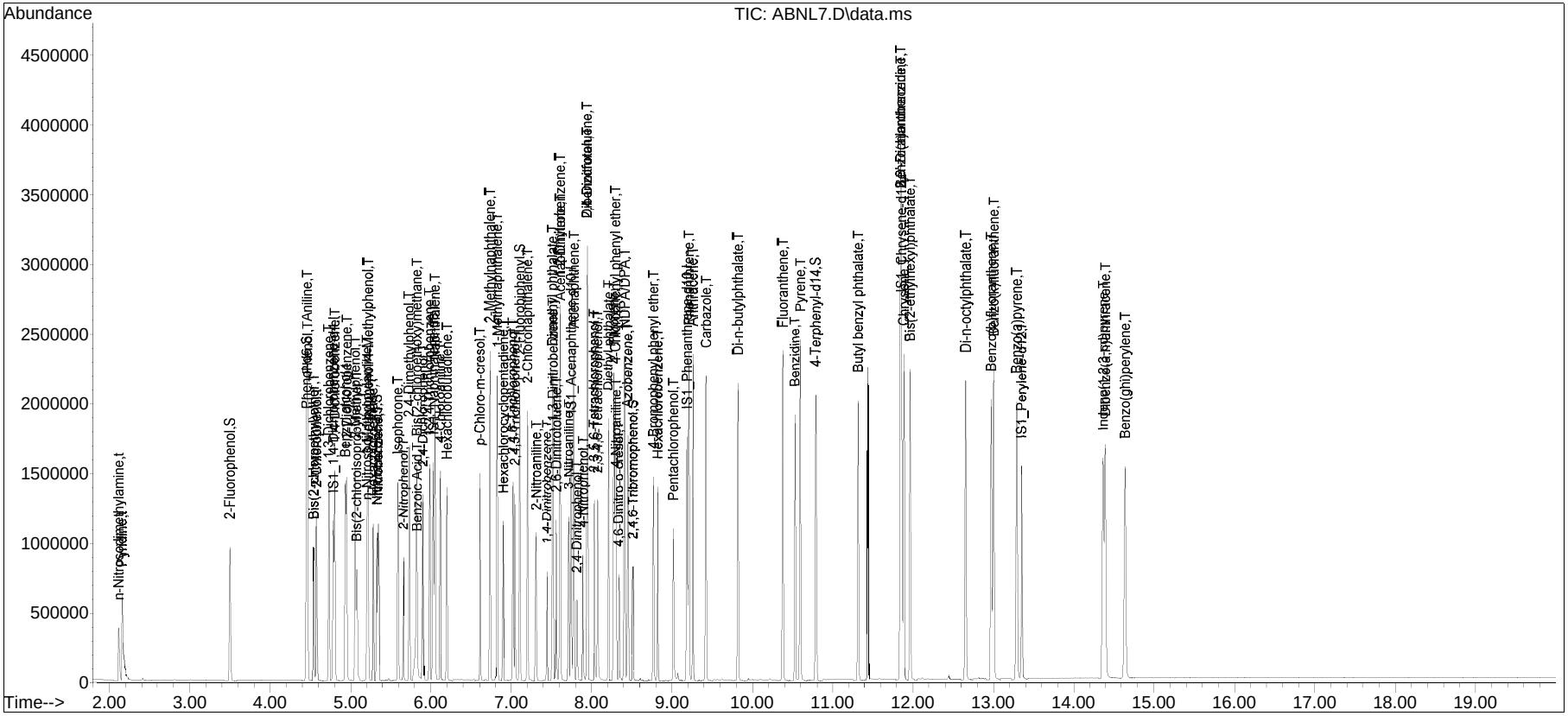
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181205ical\
Data File : ABNL7.D
Acq On : 05 Dec 2018 09:34 pm
Operator : sv112:cb
Sample : IL4,32,,ABNL50 Lot#7795
Misc : WG1186464,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 06 11:42:30 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 11:42:12 2018
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublistal\ABNL7.D•



Manual Integration Report

Data Path	: I:\8270\SV112\181205ical\	QMethod	: FS181205SV112.m
Data File	: ABNL7.D	Operator	: sv112:cb
Date Inj'd	: 12/5/2018 9:34 pm	Instrument	: SV112
Sample	: IL4,32,,ABNL50 Lot#7795	Quant Date	: 12/6/2018 11:42 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181205ical\
Data File : ABNL6.D
Acq On : 05 Dec 2018 09:59 pm
Operator : sv112:cb
Sample : IL5,32,,ABNL20 Lot#7794
Misc : WG1186464,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 06 12:14:28 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 11:43:21 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\181205ical\ABNL7.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.783	152	147699	40.000	ug/ml	0.00
Standard Area 1 = 153313			Recovery = 96.34%			
34) IS1_Naphthalene-d8	6.026	136	629186	40.000	ug/ml	0.00
Standard Area 1 = 638567			Recovery = 98.53%			
62) IS1_Acenaphthene-d10	7.745	164	321972	40.000	ug/ml	0.00
Standard Area 1 = 323009			Recovery = 99.68%			
87) IS1_Phenanthrene-d10	9.187	188	572521	40.000	ug/ml	0.00
Standard Area 1 = 563292			Recovery = 101.64%			
103) IS1_Chrysene-d12	11.860	240	539994	40.000	ug/ml	0.00
Standard Area 1 = 518627			Recovery = 104.12%			
112) IS1_Perylene-d12	13.343	264	533839	40.000	ug/ml	0.00
Standard Area 1 = 513574			Recovery = 103.95%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.496	112	101527	19.504	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 39.01%			
7) Phenol-d6	4.451	99	128598	20.280	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 40.56%			
19) Nitrobenzene-d5	5.324	82	112157	20.307	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 81.23%			
45) 2-Fluorobiphenyl	7.105	172	230934	20.396	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 81.58%			
78) 2,4,6-Tribromophenol	8.513	330	27380	19.241	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 38.48%			
95) 4-Terphenyl-d14	10.785	244	249287	19.878	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 79.51%			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.119	74	68440	19.893	ug/ml	91
3) Pyridine	2.166	79	119650	20.098	ug/ml	89
5) Aniline	4.460	93	171353	20.371	ug/ml#	55
6) 2-Chlorophenol	4.575	128	112272	20.061	ug/ml	96
8) Phenol	4.463	94	149420	20.296	ug/ml#	51
9) Bis(2-chloroethyl)ether	4.541	93	105652	20.535	ug/ml	97
10) 1,3-Dichlorobenzene	4.724	146	118925	20.084	ug/ml	98
11) 1,4-Dichlorobenzene	4.799	146	120759	19.995	ug/ml	99
12) 1,2-Dichlorobenzene	4.948	146	116102	20.258	ug/ml	98
13) Benzyl alcohol	4.932	79	87289	20.088	ug/ml	97
14) Bis(2-chloroisopropyl)...	5.078	45	150454	20.889	ug/ml	96

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181205ical\
Data File : ABNL6.D
Acq On : 05 Dec 2018 09:59 pm
Operator : sv112:cb
Sample : IL5,32,,ABNL20 Lot#7794
Misc : WG1186464,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 06 12:14:28 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 11:43:21 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\181205ical\ABNL7.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	5.057	108	101770	20.352	ug/ml	99
16) Hexachloroethane	5.277	117	44968	19.817	ug/ml	96
17) n-Nitrosodi-n-propylamine	5.203	70	76299	20.279	ug/ml	100
18) 3-Methylphenol/4-Methy...	5.215	108	108901	20.503	ug/ml	99
20) Nitrobenzene	5.343	77	115703	20.362	ug/ml	99
21) Isophorone	5.588	82	209818	20.565	ug/ml	99
22) 2-Nitrophenol	5.663	139	53603	19.555	ug/ml	98
23) 2,4-Dimethylphenol	5.731	107	109214	20.635	ug/ml	98
24) Bis(2-chloroethoxy)met...	5.821	93	136441	20.839	ug/ml	98
25) 2,4-Dichlorophenol	5.899	162	90339	20.496	ug/ml	98
26) 1,2,4-Trichlorobenzene	5.980	180	94878	20.387	ug/ml	98
35) Naphthalene	6.048	128	335121	20.338	ug/ml	100
36) Benzoic Acid	5.806	105	59658	15.378	ug/ml	99
37) 4-Chloroaniline	6.113	65	41385	20.216	ug/ml	93
38) Hexachlorobutadiene	6.197	225	49015	19.988	ug/ml	99
39) p-Chloro-m-cresol	6.611	107	96947	20.339	ug/ml	98
40) 2-Methylnaphthalene	6.732	142	222952	20.531	ug/ml	99
41) 1-Methylnaphthalene	6.825	115	74763	20.458	ug/ml	97
42) Hexachlorocyclopentadiene	6.903	237	55475	19.009	ug/ml	98
43) 2,4,6-Trichlorophenol	7.018	196	59303	19.158	ug/ml	98
44) 2,4,5-Trichlorophenol	7.046	196	65045	20.096	ug/ml	100
46) 2-Chloronaphthalene	7.201	162	200739	20.281	ug/ml	98
47) 2-Nitroaniline	7.310	138	66065	19.198	ug/ml	97
48) 1,4-Dinitrobenzene	7.444	168	27507	18.647	ug/ml	99
49) 1,3-Dinitrobenzene	7.518	168	32886	19.681	ug/ml	98
50) Dimethyl phthalate	7.512	163	239757	20.705	ug/ml	100
51) Acenaphthylene	7.602	152	332820	20.533	ug/ml	100
52) 2,6-Dinitrotoluene	7.556	165	50214	20.354	ug/ml	97
53) 1,2-Dinitrobenzene	7.599	168	21829	20.006	ug/ml#	1
63) 3-Nitroaniline	7.711	138	62732	19.718	ug/ml	97
64) Acenaphthene	7.776	154	187878	20.547	ug/ml	99
65) 2,4-Dinitrophenol	7.814	184	18802	16.138	ug/ml	97
66) Dibenzofuran	7.947	168	290439	20.617	ug/ml	98
67) 2,4-Dinitrotoluene	7.947	165	65754	19.477	ug/ml	99
68) 4-Nitrophenol	7.894	65	46459	19.537	ug/ml	97
69) 2,3,5,6-Tetrachlorophenol	8.034	232	49380	19.412	ug/ml	99
70) 2,3,4,6-Tetrachlorophenol	8.075	232	51598	19.944	ug/ml	99
71) Diethyl phthalate	8.208	149	245806	20.232	ug/ml	99
72) Fluorene	8.280	166	225454	20.453	ug/ml	100
73) 4-Chlorophenyl phenyl ...	8.298	204	102476	20.310	ug/ml	95

Data Path : I:\8270\SV112\181205ical\
Data File : ABNL6.D
Acq On : 05 Dec 2018 09:59 pm
Operator : sv112:cb
Sample : IL5,32,,ABNL20 Lot#7794
Misc : WG1186464,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 06 12:14:28 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 11:43:21 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\181205ical\ABNL7.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74)	4-Nitroaniline	8.302	138	62605	19.976	ug/ml	99
75)	4,6-Dinitro-o-cresol	8.339	198	27065	17.399	ug/ml	92
76)	NDPA/DPA	8.413	169	195880	20.222	ug/ml	100
77)	Azobenzene	8.448	77	239582	20.690	ug/ml	99
79)	4-Bromophenyl phenyl e...	8.771	248	54856	20.009	ug/ml	99
80)	Hexachlorobenzene	8.821	284	61612	20.464	ug/ml	98
81)	Pentachlorophenol	9.016	266	34377	18.385	ug/ml	98
88)	Phenanthrene	9.209	178	335168	20.380	ug/ml	99
89)	Anthracene	9.259	178	336650	20.193	ug/ml	100
90)	Carbazole	9.427	167	330634	20.480	ug/ml	99
91)	Di-n-butylphthalate	9.818	149	394521	19.275	ug/ml	100
92)	Fluoranthene	10.375	202	347551	20.156	ug/ml	100
93)	Benzidine	10.527	184	241344	19.108	ug/ml	99
94)	Pyrene	10.595	202	371363	20.300	ug/ml	99
96)	Butyl benzyl phthalate	11.320	149	166803	18.356	ug/ml	100
104)	Benzo(a)anthracene	11.848	228	343948	19.771	ug/ml	100
105)	3,3'-Dichlorobenzidine	11.845	252	125780	19.005	ug/ml	98
106)	Chrysene	11.885	228	326645	20.312	ug/ml	99
107)	Bis(2-ethylhexyl)phtha...	11.966	149	247157	18.047	ug/ml	98
108)	Di-n-octylphthalate	12.653	149	389663	16.940	ug/ml	98
109)	Benzo(b)fluoranthene	12.970	252	317328	19.850	ug/ml	99
110)	Benzo(k)fluoranthene	12.998	252	325719	19.854	ug/ml	99
111)	Benzo(a)pyrene	13.287	252	306039	19.375	ug/ml	100
113)	Indeno(1,2,3-cd)pyrene	14.366	276	293313	19.550	ug/mL	99
114)	Dibenzo(a,h)anthracene	14.390	278	300560	19.637	ug/ml	99
115)	Benzo(ghi)perylene	14.636	276	301296	20.150	ug/ml	95

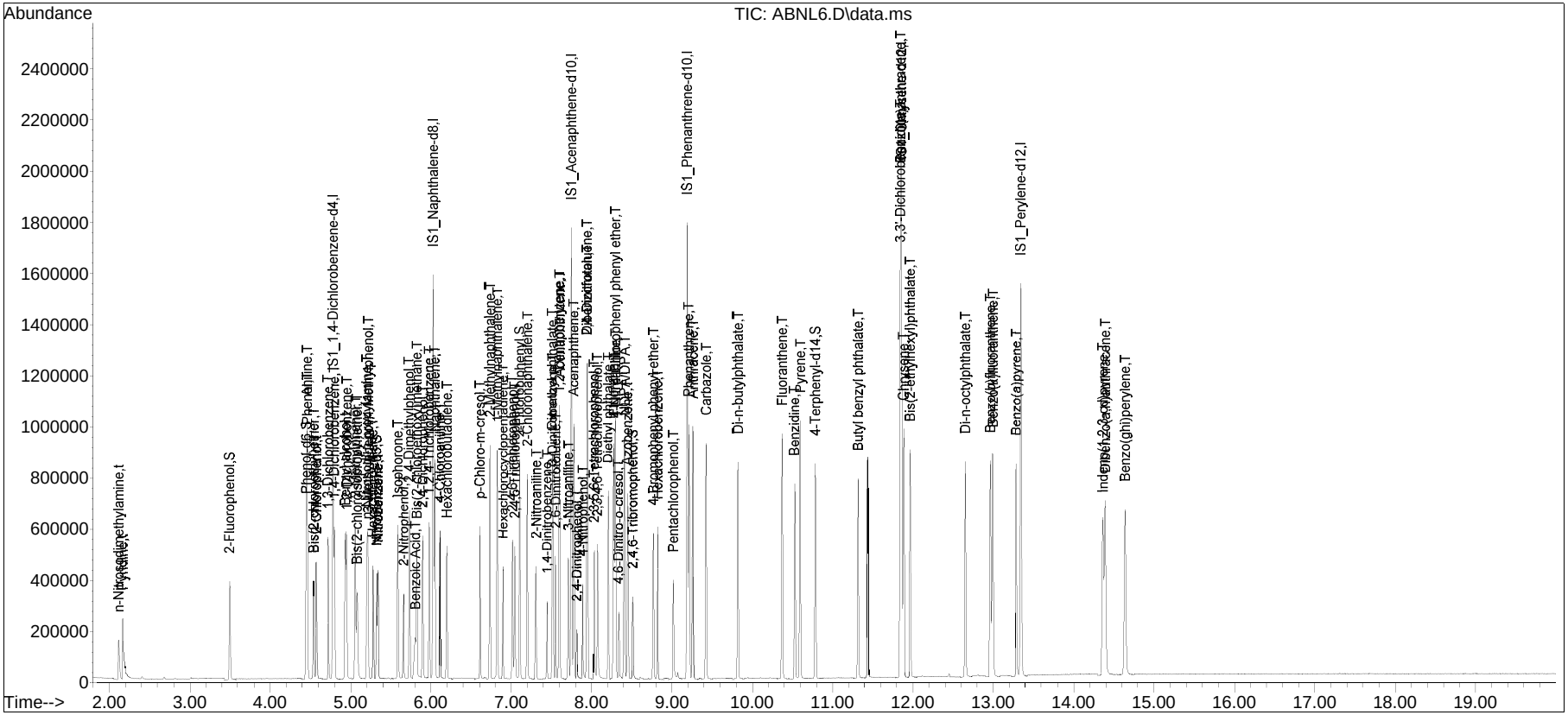
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181205ical\
Data File : ABNL6.D
Acq On : 05 Dec 2018 09:59 pm
Operator : sv112:cb
Sample : IL5,32,,ABNL20 Lot#7794
Misc : WG1186464,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 06 12:14:28 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 11:43:21 2018
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublistal\ABNL7.D•



Manual Integration Report

Data Path	: I:\8270\SV112\181205ical\	QMethod	: FS181205SV112.m
Data File	: ABNL6.D	Operator	: sv112:cb
Date Inj'd	: 12/5/2018 9:59 pm	Instrument	: SV112
Sample	: IL5,32,,ABNL20 Lot#7794	Quant Date	: 12/6/2018 11:45 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181205ical\
Data File : ABNL5.D
Acq On : 05 Dec 2018 10:24 pm
Operator : sv112:cb
Sample : IL6,32,,ABNL10 Lot#7793
Misc : WG1186464,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 06 13:21:00 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 13:20:53 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\181205ical\ABNL7.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.783	152	149026	40.000	ug/ml	0.00
Standard Area 1 = 153313			Recovery = 97.20%			
34) IS1_Naphthalene-d8	6.026	136	610956	40.000	ug/ml	0.00
Standard Area 1 = 638567			Recovery = 95.68%			
62) IS1_Acenaphthene-d10	7.745	164	300088	40.000	ug/ml	0.00
Standard Area 1 = 323009			Recovery = 92.90%			
87) IS1_Phenanthrene-d10	9.187	188	511568	40.000	ug/ml	0.00
Standard Area 1 = 563292			Recovery = 90.82%			
103) IS1_Chrysene-d12	11.857	240	451027	40.000	ug/ml	0.00
Standard Area 1 = 518627			Recovery = 86.97%			
112) IS1_Perylene-d12	13.343	264	447691	40.000	ug/ml	0.00
Standard Area 1 = 513574			Recovery = 87.17%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.500	112	52810	10.081	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 20.16%			
7) Phenol-d6	4.451	99	64645	10.168	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 20.34%			
19) Nitrobenzene-d5	5.327	82	55120	9.948	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 39.79%			
45) 2-Fluorobiphenyl	7.105	172	113733	10.184	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 40.74%			
78) 2,4,6-Tribromophenol	8.513	330	11802	9.675	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 19.35%			
95) 4-Terphenyl-d14	10.785	244	108247	9.876	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 39.50%			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.129	74	34752	10.023	ug/ml#	93
3) Pyridine	2.185	79	62110	10.442	ug/ml	89
5) Aniline	4.460	93	86505	10.242	ug/ml#	54
6) 2-Chlorophenol	4.575	128	56372	10.109	ug/ml	99
8) Phenol	4.463	94	76043	10.274	ug/ml#	51
9) Bis(2-chloroethyl)ether	4.541	93	53610	10.036	ug/ml	98
10) 1,3-Dichlorobenzene	4.727	146	62609	10.248	ug/ml	97
11) 1,4-Dichlorobenzene	4.799	146	63688	10.233	ug/ml	99
12) 1,2-Dichlorobenzene	4.948	146	60796	10.205	ug/ml	97
13) Benzyl alcohol	4.932	79	43041	10.161	ug/ml	97
14) Bis(2-chloroisopropyl)...	5.079	45	76809	10.235	ug/ml	96

Data Path : I:\8270\SV112\181205ical\
Data File : ABNL5.D
Acq On : 05 Dec 2018 10:24 pm
Operator : sv112:cb
Sample : IL6,32,,ABNL10 Lot#7793
Misc : WG1186464,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 06 13:21:00 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 13:20:53 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\181205ical\ABNL7.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	5.060	108	51371	10.334	ug/ml	98
16) Hexachloroethane	5.281	117	23183	10.029	ug/ml	95
17) n-Nitrosodi-n-propylamine	5.203	70	37429	9.994	ug/ml	100
18) 3-Methylphenol/4-Methy...	5.215	108	53473	10.258	ug/ml	99
20) Nitrobenzene	5.346	77	58013	10.239	ug/ml	100
21) Isophorone	5.588	82	101834	10.218	ug/ml	99
22) 2-Nitrophenol	5.663	139	25136	9.299	ug/ml	99
23) 2,4-Dimethylphenol	5.731	107	52899	10.112	ug/ml	98
24) Bis(2-chloroethoxy)met...	5.824	93	68490	10.320	ug/ml	98
25) 2,4-Dichlorophenol	5.899	162	43362	9.991	ug/ml	98
26) 1,2,4-Trichlorobenzene	5.980	180	48276	10.133	ug/ml	99
35) Naphthalene	6.048	128	168689	10.207	ug/ml	100
36) Benzoic Acid	5.793	105	19175	10.809	ug/ml	96
37) 4-Chloroaniline	6.114	65	20315	10.245	ug/ml	95
38) Hexachlorobutadiene	6.197	225	25223	10.192	ug/ml	99
39) p-Chloro-m-cresol	6.611	107	44755	9.859	ug/ml	98
40) 2-Methylnaphthalene	6.732	142	110182	10.261	ug/ml	98
41) 1-Methylnaphthalene	6.825	115	37593	10.270	ug/ml	99
42) Hexachlorocyclopentadiene	6.903	237	25744	9.121	ug/ml	98
43) 2,4,6-Trichlorophenol	7.018	196	27228	9.659	ug/ml	97
44) 2,4,5-Trichlorophenol	7.046	196	30222	9.807	ug/ml	98
46) 2-Chloronaphthalene	7.201	162	97554	10.147	ug/ml	99
47) 2-Nitroaniline	7.310	138	29240	9.079	ug/ml	98
48) 1,4-Dinitrobenzene	7.444	168	11575	8.156	ug/ml	96
49) 1,3-Dinitrobenzene	7.518	168	14310	9.224	ug/ml	98
50) Dimethyl phthalate	7.512	163	111304	10.107	ug/ml	100
51) Acenaphthylene	7.602	152	158937	10.401	ug/ml	100
52) 2,6-Dinitrotoluene	7.556	165	22426	9.967	ug/ml	98
53) 1,2-Dinitrobenzene	7.599	168	9731	9.936	ug/ml#	1
63) 3-Nitroaniline	7.711	138	27888	9.749	ug/ml	100
64) Acenaphthene	7.776	154	89862	10.185	ug/ml	99
65) 2,4-Dinitrophenol	7.814	184	6517	9.499	ug/ml	95
66) Dibenzofuran	7.944	168	139149	10.354	ug/ml	98
67) 2,4-Dinitrotoluene	7.944	165	27934	9.777	ug/ml	93
68) 4-Nitrophenol	7.894	65	20088	9.294	ug/ml	98
69) 2,3,5,6-Tetrachlorophenol	8.034	232	21680	9.312	ug/ml	99
70) 2,3,4,6-Tetrachlorophenol	8.078	232	23278	9.853	ug/ml	95
71) Diethyl phthalate	8.205	149	112855	10.206	ug/ml	99
72) Fluorene	8.280	166	105353	10.253	ug/ml	100
73) 4-Chlorophenyl phenyl ...	8.295	204	48697	10.110	ug/ml	94

Data Path : I:\8270\SV112\181205ical\
Data File : ABNL5.D
Acq On : 05 Dec 2018 10:24 pm
Operator : sv112:cb
Sample : IL6,32,,ABNL10 Lot#7793
Misc : WG1186464,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 06 13:21:00 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 13:20:53 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\181205ical\ABNL7.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74)	4-Nitroaniline	8.302	138	28038	9.963	ug/ml	100
75)	4,6-Dinitro-o-cresol	8.339	198	9653	9.414	ug/ml	96
76)	NDPA/DPA	8.410	169	91268	10.277	ug/ml	100
77)	Azobenzene	8.448	77	110337	10.454	ug/ml	98
79)	4-Bromophenyl phenyl e...	8.771	248	25691	9.879	ug/ml	97
80)	Hexachlorobenzene	8.821	284	28830	10.029	ug/ml	99
81)	Pentachlorophenol	9.017	266	13331	8.702	ug/ml	98
88)	Phenanthrene	9.209	178	154989	10.138	ug/ml	99
89)	Anthracene	9.259	178	151307	10.168	ug/ml	99
90)	Carbazole	9.424	167	149414	10.531	ug/ml	100
91)	Di-n-butylphthalate	9.815	149	167110	10.191	ug/ml	100
92)	Fluoranthene	10.375	202	153160	10.058	ug/ml	99
93)	Benzidine	10.527	184	94630	9.052	ug/ml	98
94)	Pyrene	10.592	202	164048	10.186	ug/ml	99
96)	Butyl benzyl phthalate	11.317	149	64217	8.374	ug/ml	97
104)	Benzo(a)anthracene	11.848	228	146237	10.125	ug/ml	100
105)	3,3'-Dichlorobenzidine	11.848	252	51331	9.745	ug/ml#	98
106)	Chrysene	11.885	228	141764	10.153	ug/ml	99
107)	Bis(2-ethylhexyl)phtha...	11.963	149	94303	9.523	ug/ml	98
108)	Di-n-octylphthalate	12.653	149	136841	9.009	ug/ml	99
109)	Benzo(b)fluoranthene	12.970	252	132142	10.285	ug/ml	99
110)	Benzo(k)fluoranthene	12.995	252	136142	10.264	ug/ml	99
111)	Benzo(a)pyrene	13.287	252	122754	9.808	ug/ml	100
113)	Indeno(1,2,3-cd)pyrene	14.363	276	113465	9.401	ug/mL	99
114)	Dibenzo(a,h)anthracene	14.391	278	124080	10.168	ug/ml	99
115)	Benzo(ghi)perylene	14.636	276	123946	10.152	ug/ml	95

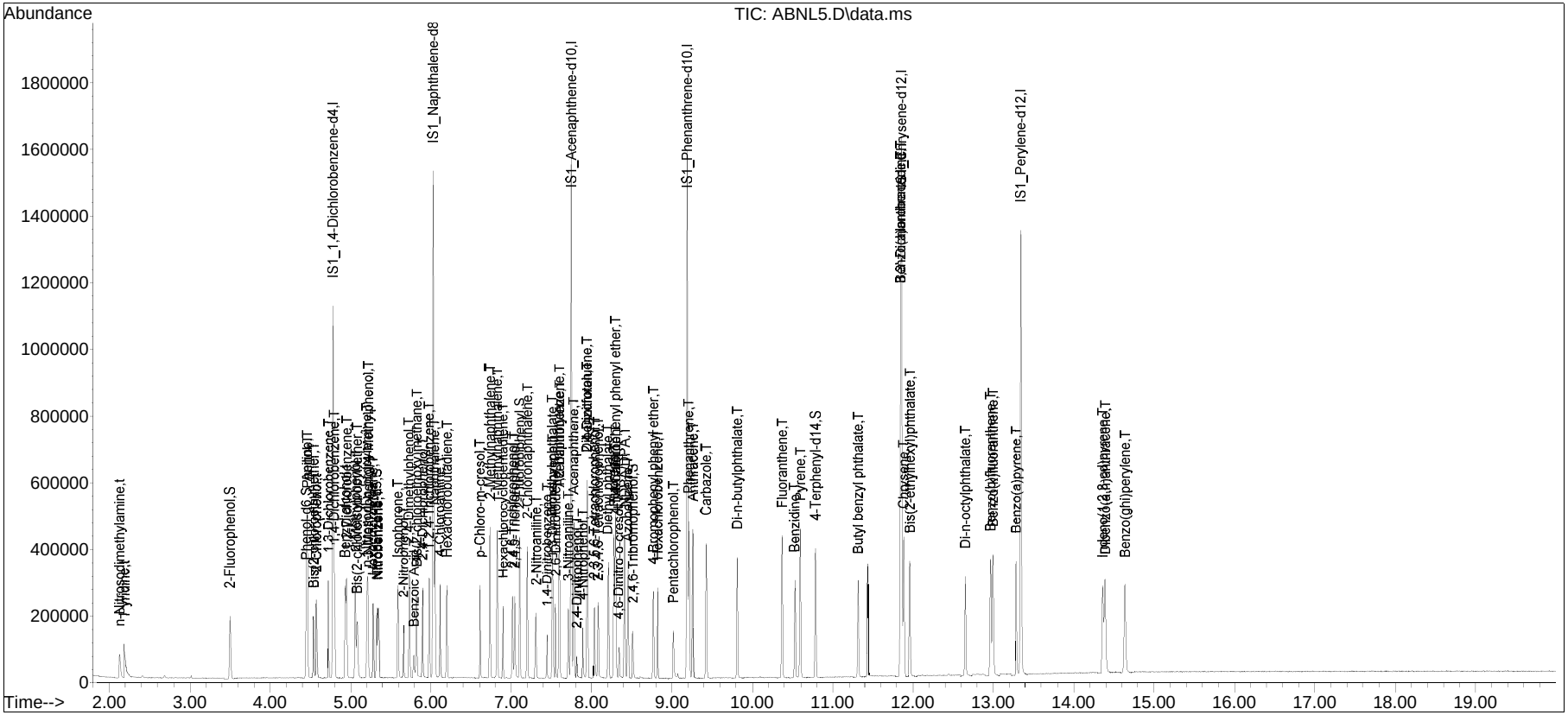
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181205ical\
Data File : ABNL5.D
Acq On : 05 Dec 2018 10:24 pm
Operator : sv112:cb
Sample : IL6,32,,ABNL10 Lot#7793
Misc : WG1186464,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 06 13:21:00 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 13:20:53 2018
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublistal\ABNL7.D•



Manual Integration Report

Data Path	: I:\8270\SV112\181205ical\	QMethod	: FS181205SV112.m
Data File	: ABNL5.D	Operator	: sv112:cb
Date Inj'd	: 12/5/2018 10:24 pm	Instrument	: SV112
Sample	: IL6,32,,ABNL10 Lot#7793	Quant Date	: 12/6/2018 1:20 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181205ical\
Data File : ABNL4.D
Acq On : 05 Dec 2018 10:50 pm
Operator : sv112:cb
Sample : IL7,32,,ABNL5 Lot#7792
Misc : WG1186464,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 06 13:28:21 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 13:28:14 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\181205ical\ABNL7.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.783	152	155812	40.000	ug/ml	0.00
Standard Area 1 = 153313			Recovery = 101.63%			
34) IS1_Naphthalene-d8	6.026	136	632334	40.000	ug/ml	0.00
Standard Area 1 = 638567			Recovery = 99.02%			
62) IS1_Acenaphthene-d10	7.745	164	306370	40.000	ug/ml	0.00
Standard Area 1 = 323009			Recovery = 94.85%			
87) IS1_Phenanthrene-d10	9.187	188	520564	40.000	ug/ml	0.00
Standard Area 1 = 563292			Recovery = 92.41%			
103) IS1_Chrysene-d12	11.857	240	475881	40.000	ug/ml	0.00
Standard Area 1 = 518627			Recovery = 91.76%			
112) IS1_Perylene-d12	13.343	264	471578	40.000	ug/ml	0.00
Standard Area 1 = 513574			Recovery = 91.82%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.503	112	27467	5.015	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 10.03%#			
7) Phenol-d6	4.451	99	32834	4.939	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 9.88%#			
19) Nitrobenzene-d5	5.327	82	28073	4.846	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 19.38%#			
45) 2-Fluorobiphenyl	7.102	172	57731	4.994	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 19.98%#			
78) 2,4,6-Tribromophenol	8.516	330	5447	4.374	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 8.75%#			
95) 4-Terphenyl-d14	10.785	244	55354	4.963	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 19.85%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.135	74	17597	4.854	ug/ml#	95
3) Pyridine	2.197	79	31050	4.993	ug/ml	88
5) Aniline	4.463	93	44394	5.027	ug/ml#	54
6) 2-Chlorophenol	4.575	128	28694	4.921	ug/ml	98
8) Phenol	4.463	94	39355	5.085	ug/ml#	52
9) Bis(2-chloroethyl)ether	4.544	93	28263	5.061	ug/ml	96
10) 1,3-Dichlorobenzene	4.727	146	32112	5.027	ug/ml	98
11) 1,4-Dichlorobenzene	4.799	146	33023	5.075	ug/ml	98
12) 1,2-Dichlorobenzene	4.948	146	31525	5.061	ug/ml	97
13) Benzyl alcohol	4.932	79	21413	4.835	ug/ml	95
14) Bis(2-chloroisopropyl)...	5.082	45	40565	5.170	ug/ml	95

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181205ical\
Data File : ABNL4.D
Acq On : 05 Dec 2018 10:50 pm
Operator : sv112:cb
Sample : IL7,32,,ABNL5 Lot#7792
Misc : WG1186464,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 06 13:28:21 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 13:28:14 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\181205ical\ABNL7.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	5.060	108	25896	4.983	ug/ml	99
16) Hexachloroethane	5.277	117	11906	4.926	ug/ml	94
17) n-Nitrosodi-n-propylamine	5.206	70	19103	4.879	ug/ml	98
18) 3-Methylphenol/4-Methy...	5.215	108	27037	4.961	ug/ml	100
20) Nitrobenzene	5.346	77	29182	4.926	ug/ml	97
21) Isophorone	5.591	82	50185	4.816	ug/ml	99
22) 2-Nitrophenol	5.663	139	12094	4.279	ug/ml	98
23) 2,4-Dimethylphenol	5.731	107	26327	4.814	ug/ml	99
24) Bis(2-chloroethoxy)met...	5.824	93	34185	4.927	ug/ml	99
25) 2,4-Dichlorophenol	5.902	162	21545	4.748	ug/ml	97
26) 1,2,4-Trichlorobenzene	5.980	180	24720	4.963	ug/ml	99
35) Naphthalene	6.048	128	87416	5.111	ug/ml	100
36) Benzoic Acid	5.787	105	5109	7.684	ug/ml	94
37) 4-Chloroaniline	6.113	65	10418	5.076	ug/ml	98
38) Hexachlorobutadiene	6.197	225	12678	4.950	ug/ml	97
39) p-Chloro-m-cresol	6.611	107	22408	4.769	ug/ml	100
40) 2-Methylnaphthalene	6.732	142	55610	5.004	ug/ml	98
41) 1-Methylnaphthalene	6.825	115	19087	5.038	ug/ml	98
42) Hexachlorocyclopentadiene	6.903	237	12482	4.273	ug/ml	99
43) 2,4,6-Trichlorophenol	7.018	196	13303	4.560	ug/ml	98
44) 2,4,5-Trichlorophenol	7.046	196	14424	4.522	ug/ml	98
46) 2-Chloronaphthalene	7.201	162	48571	4.881	ug/ml	99
47) 2-Nitroaniline	7.310	138	13584	4.075	ug/ml	99
48) 1,4-Dinitrobenzene	7.444	168	5055	3.442	ug/ml	92
49) 1,3-Dinitrobenzene	7.518	168	6198	3.860	ug/ml	88
50) Dimethyl phthalate	7.512	163	55732	4.890	ug/ml	100
51) Acenaphthylene	7.602	152	78178	4.943	ug/ml	99
52) 2,6-Dinitrotoluene	7.556	165	10564	4.536	ug/ml	96
53) 1,2-Dinitrobenzene	7.596	168	4662	4.599	ug/ml#	1
63) 3-Nitroaniline	7.711	138	13252	4.538	ug/ml#	99
64) Acenaphthene	7.776	154	45949	5.101	ug/ml	99
65) 2,4-Dinitrophenol	7.817	184	2173	8.813	ug/ml	89
66) Dibenzofuran	7.944	168	70554	5.142	ug/ml	99
67) 2,4-Dinitrotoluene	7.944	165	13043	4.472	ug/ml	91
68) 4-Nitrophenol	7.894	65	9371	4.247	ug/ml	97
69) 2,3,5,6-Tetrachlorophenol	8.034	232	10003	4.208	ug/ml	97
70) 2,3,4,6-Tetrachlorophenol	8.078	232	10964	4.546	ug/ml	95
71) Diethyl phthalate	8.205	149	55398	4.907	ug/ml	99
72) Fluorene	8.280	166	52730	5.026	ug/ml	98
73) 4-Chlorophenyl phenyl ...	8.295	204	24849	5.053	ug/ml	94

Data Path : I:\8270\SV112\181205ical\
Data File : ABNL4.D
Acq On : 05 Dec 2018 10:50 pm
Operator : sv112:cb
Sample : IL7,32,,ABNL5 Lot#7792
Misc : WG1186464,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 06 13:28:21 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 13:28:14 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\181205ical\ABNL7.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74)	4-Nitroaniline	8.302	138	13210	4.598	ug/ml	95
75)	4,6-Dinitro-o-cresol	8.339	198	3818	7.655	ug/ml	88
76)	NDPA/DPA	8.414	169	45464	5.014	ug/ml	99
77)	Azobenzene	8.448	77	53891	5.001	ug/ml	99
79)	4-Bromophenyl phenyl e...	8.771	248	13147	4.952	ug/ml	98
80)	Hexachlorobenzene	8.821	284	14205	4.840	ug/ml	95
81)	Pentachlorophenol	9.016	266	5386	4.935	ug/ml	95
88)	Phenanthrene	9.209	178	79089	5.084	ug/ml	99
89)	Anthracene	9.259	178	75998	5.019	ug/ml	99
90)	Carbazole	9.427	167	72994	5.056	ug/ml	98
91)	Di-n-butylphthalate	9.815	149	78403	4.699	ug/ml	99
92)	Fluoranthene	10.372	202	76924	4.964	ug/ml	99
93)	Benzidine	10.527	184	42727	4.016	ug/ml	99
94)	Pyrene	10.592	202	83490	5.094	ug/ml	99
96)	Butyl benzyl phthalate	11.317	149	28784	3.688	ug/ml	95
104)	Benzo(a)anthracene	11.848	228	74550	4.892	ug/ml	100
105)	3,3'-Dichlorobenzidine	11.845	252	23362	4.203	ug/ml#	96
106)	Chrysene	11.885	228	73519	4.991	ug/ml	100
107)	Bis(2-ethylhexyl)phtha...	11.963	149	40700	4.938	ug/ml#	98
108)	Di-n-octylphthalate	12.653	149	53865	4.960	ug/ml#	98
109)	Benzo(b)fluoranthene	12.967	252	64208	4.737	ug/ml	99
110)	Benzo(k)fluoranthene	12.995	252	69107	4.938	ug/ml	98
111)	Benzo(a)pyrene	13.284	252	59192	4.482	ug/ml	99
113)	Indeno(1,2,3-cd)pyrene	14.363	276	56151	4.416	ug/mL	99
114)	Dibenzo(a,h)anthracene	14.387	278	60749	4.726	ug/ml	99
115)	Benzo(ghi)perylene	14.633	276	61258	4.763	ug/ml	96

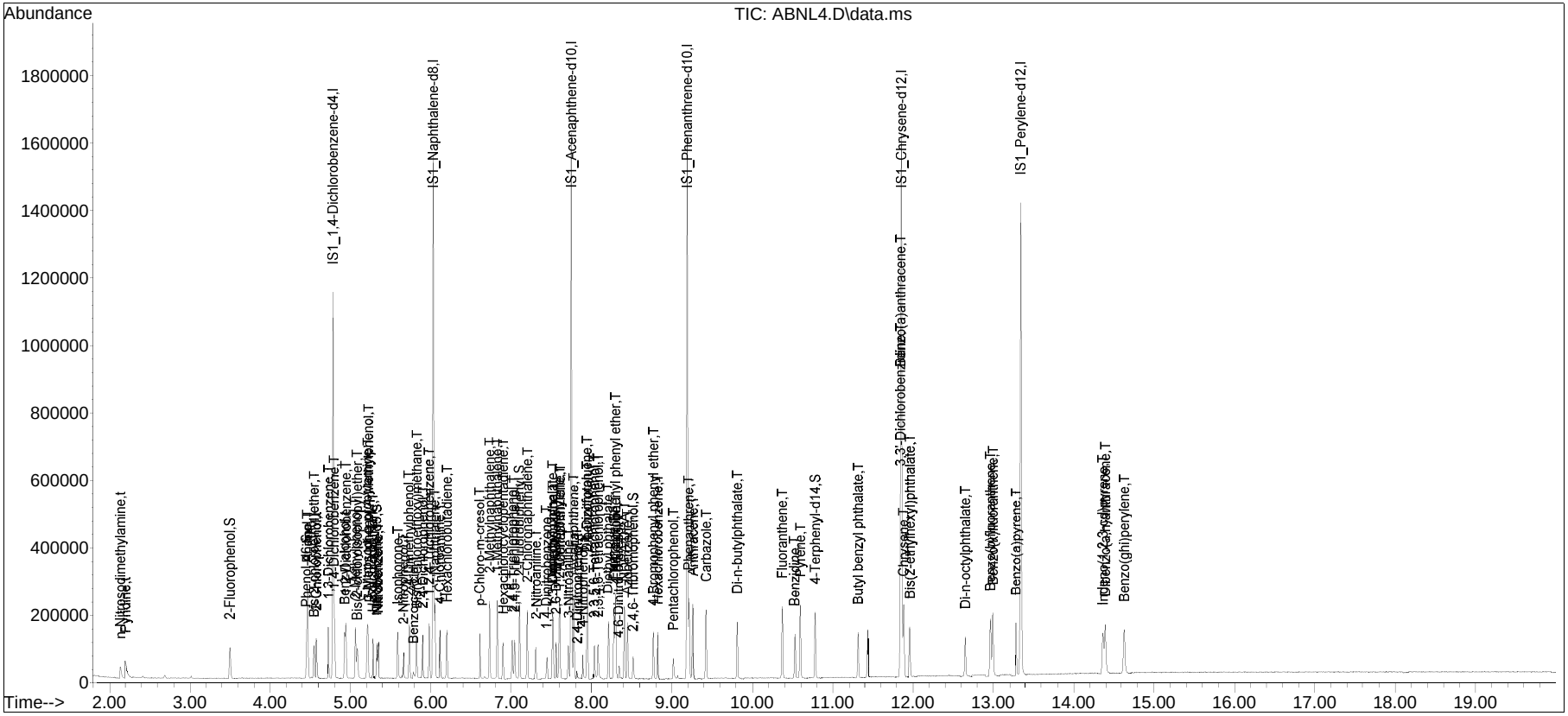
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181205ical\
Data File : ABNL4.D
Acq On : 05 Dec 2018 10:50 pm
Operator : sv112:cb
Sample : IL7,32,,ABNL5 Lot#7792
Misc : WG1186464,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 06 13:28:21 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 13:28:14 2018
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublistal\ABNL7.D•



Manual Integration Report

Data Path	: I:\8270\SV112\181205ical\	QMethod	: FS181205SV112.m
Data File	: ABNL4.D	Operator	: sv112:cb
Date Inj'd	: 12/5/2018 10:50 pm	Instrument	: SV112
Sample	: IL7,32,,ABNL5 Lot#7792	Quant Date	: 12/6/2018 1:28 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181205ical\
Data File : ABNL3.D
Acq On : 05 Dec 2018 11:15 pm
Operator : sv112:cb
Sample : IL8,32,,ABNL3 Lot#7791
Misc : WG1186464,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 06 15:13:26 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 15:13:19 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\181205ical\ABNL7.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.783	152	160422	40.000	ug/ml	0.00
Standard Area 1 = 153313			Recovery = 104.64%			
34) IS1_Naphthalene-d8	6.026	136	652546	40.000	ug/ml	0.00
Standard Area 1 = 638567			Recovery = 102.19%			
62) IS1_Acenaphthene-d10	7.745	164	317028	40.000	ug/ml	0.00
Standard Area 1 = 323009			Recovery = 98.15%			
87) IS1_Phenanthrene-d10	9.187	188	543947	40.000	ug/ml	0.00
Standard Area 1 = 563292			Recovery = 96.57%			
103) IS1_Chrysene-d12	11.857	240	478101	40.000	ug/ml	0.00
Standard Area 1 = 518627			Recovery = 92.19%			
112) IS1_Perylene-d12	13.343	264	462527	40.000	ug/ml	0.00
Standard Area 1 = 513574			Recovery = 90.06%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.500	112	16751	2.970	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 5.94%#			
7) Phenol-d6	4.451	99	20402	2.981	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 5.96%#			
19) Nitrobenzene-d5	5.327	82	17324	2.905	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 11.62%#			
45) 2-Fluorobiphenyl	7.102	172	36310	3.044	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 12.18%#			
78) 2,4,6-Tribromophenol	8.513	330	3478	2.699	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 5.40%#			
95) 4-Terphenyl-d14	10.782	244	33252	2.853	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 11.41%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.132	74	11109	2.976	ug/ml#	94
3) Pyridine	2.203	79	19353	3.023	ug/ml	87
5) Aniline	4.460	93	27699	3.047	ug/ml#	58
6) 2-Chlorophenol	4.575	128	17363	2.892	ug/ml	99
8) Phenol	4.463	94	23755	2.981	ug/ml#	53
9) Bis(2-chloroethyl)ether	4.544	93	17726	3.083	ug/ml	96
10) 1,3-Dichlorobenzene	4.724	146	19687	2.994	ug/ml	98
11) 1,4-Dichlorobenzene	4.799	146	20432	3.050	ug/ml	93
12) 1,2-Dichlorobenzene	4.948	146	19585	3.054	ug/ml	98
13) Benzyl alcohol	4.932	79	12979	2.846	ug/ml	97
14) Bis(2-chloroisopropyl)...	5.082	45	24999	3.094	ug/ml	95

Data Path : I:\8270\SV112\181205ical\
Data File : ABNL3.D
Acq On : 05 Dec 2018 11:15 pm
Operator : sv112:cb
Sample : IL8,32,,ABNL3 Lot#7791
Misc : WG1186464,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 06 15:13:26 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 15:13:19 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\181205ical\ABNL7.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	5.060	108	15677	2.930	ug/ml	99
16) Hexachloroethane	5.281	117	7305	2.936	ug/ml	97
17) n-Nitrosodi-n-propylamine	5.203	70	12058	2.991	ug/ml#	90
18) 3-Methylphenol/4-Methy...	5.215	108	16496	2.940	ug/ml	99
20) Nitrobenzene	5.346	77	17649	2.894	ug/ml	100
21) Isophorone	5.588	82	30772	2.868	ug/ml	97
22) 2-Nitrophenol	5.663	139	7230	2.485	ug/ml	98
23) 2,4-Dimethylphenol	5.731	107	15932	2.829	ug/ml	95
24) Bis(2-chloroethoxy)met...	5.821	93	21440	3.001	ug/ml	98
25) 2,4-Dichlorophenol	5.899	162	13267	2.840	ug/ml	99
26) 1,2,4-Trichlorobenzene	5.983	180	15373	2.997	ug/ml	97
35) Naphthalene	6.048	128	55115	3.122	ug/ml	100
36) Benzoic Acid	0.000		0	N.D.		
37) 4-Chloroaniline	6.113	65	6423	3.033	ug/ml	98
38) Hexachlorobutadiene	6.197	225	7850	2.970	ug/ml	97
39) p-Chloro-m-cresol	6.611	107	13412	2.766	ug/ml	97
40) 2-Methylnaphthalene	6.732	142	34630	3.019	ug/ml	99
41) 1-Methylnaphthalene	6.825	115	11497	2.941	ug/ml	95
42) Hexachlorocyclopentadiene	6.903	237	7729	2.564	ug/ml#	93
43) 2,4,6-Trichlorophenol	7.018	196	7906	2.626	ug/ml	97
44) 2,4,5-Trichlorophenol	7.046	196	8898	2.703	ug/ml	98
46) 2-Chloronaphthalene	7.201	162	31142	3.033	ug/ml	99
47) 2-Nitroaniline	7.310	138	7992	2.323	ug/ml	99
48) 1,4-Dinitrobenzene	7.441	168	2880	1.900	ug/ml	88
49) 1,3-Dinitrobenzene	7.518	168	3466	2.092	ug/ml	87
50) Dimethyl phthalate	7.509	163	34771	2.956	ug/ml	99
51) Acenaphthylene	7.602	152	48034	2.943	ug/ml	100
52) 2,6-Dinitrotoluene	7.553	165	6122	2.547	ug/ml	95
53) 1,2-Dinitrobenzene	7.596	168	2714	2.595	ug/ml#	1
63) 3-Nitroaniline	7.708	138	7642	2.529	ug/ml#	96
64) Acenaphthene	7.773	154	28332	3.039	ug/ml	97
65) 2,4-Dinitrophenol	0.000		0	N.D. d		
66) Dibenzofuran	7.944	168	43578	3.069	ug/ml	99
67) 2,4-Dinitrotoluene	7.944	165	7319	2.425	ug/ml	85
68) 4-Nitrophenol	7.891	65	4903	2.147	ug/ml	97
69) 2,3,5,6-Tetrachlorophenol	8.034	232	6360	2.586	ug/ml	92
70) 2,3,4,6-Tetrachlorophenol	8.078	232	6543	2.622	ug/ml	96
71) Diethyl phthalate	8.205	149	33741	2.888	ug/ml	98
72) Fluorene	8.277	166	32549	2.998	ug/ml	99
73) 4-Chlorophenyl phenyl ...	8.295	204	15289	3.005	ug/ml	97

Data Path : I:\8270\SV112\181205ical\
Data File : ABNL3.D
Acq On : 05 Dec 2018 11:15 pm
Operator : sv112:cb
Sample : IL8,32,,ABNL3 Lot#7791
Misc : WG1186464,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 06 15:13:26 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 15:13:19 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\181205ical\ABNL7.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74)	4-Nitroaniline	8.299	138	7099	2.388	ug/ml	91
75)	4,6-Dinitro-o-cresol	8.339	198	1934	4.451	ug/ml	97
76)	NDPA/DPA	8.410	169	27948	2.979	ug/ml	98
77)	Azobenzene	8.448	77	31991	2.869	ug/ml	99
79)	4-Bromophenyl phenyl e...	8.768	248	8190	2.981	ug/ml	98
80)	Hexachlorobenzene	8.821	284	9011	2.967	ug/ml	99
81)	Pentachlorophenol	9.013	266	2913	3.632	ug/ml	89
88)	Phenanthrene	9.209	178	50079	3.081	ug/ml	99
89)	Anthracene	9.259	178	47781	3.020	ug/ml	100
90)	Carbazole	9.424	167	44326	2.938	ug/ml	100
91)	Di-n-butylphthalate	9.815	149	45680	2.620	ug/ml	99
92)	Fluoranthene	10.372	202	46891	2.896	ug/ml	100
93)	Benzidine	10.527	184	23238	2.091	ug/ml	98
94)	Pyrene	10.592	202	50357	2.941	ug/ml	99
96)	Butyl benzyl phthalate	11.317	149	15696	1.925	ug/ml	94
104)	Benzo(a)anthracene	11.848	228	44436	2.902	ug/ml	99
105)	3,3'-Dichlorobenzidine	11.845	252	12927	2.315	ug/ml#	92
106)	Chrysene	11.882	228	45106	3.048	ug/ml	100
107)	Bis(2-ethylhexyl)phtha...	11.963	149	21087	3.402	ug/ml#	99
108)	Di-n-octylphthalate	12.650	149	25521	3.687	ug/ml#	97
109)	Benzo(b)fluoranthene	12.967	252	36373	2.671	ug/ml	99
110)	Benzo(k)fluoranthene	12.995	252	39046	2.777	ug/ml	100
111)	Benzo(a)pyrene	13.284	252	32512	2.451	ug/ml	99
113)	Indeno(1,2,3-cd)pyrene	14.359	276	28952	2.322	ug/mL	99
114)	Dibenzo(a,h)anthracene	14.387	278	34301	2.721	ug/ml	99
115)	Benzo(ghi)perylene	14.630	276	34228	2.714	ug/ml	96

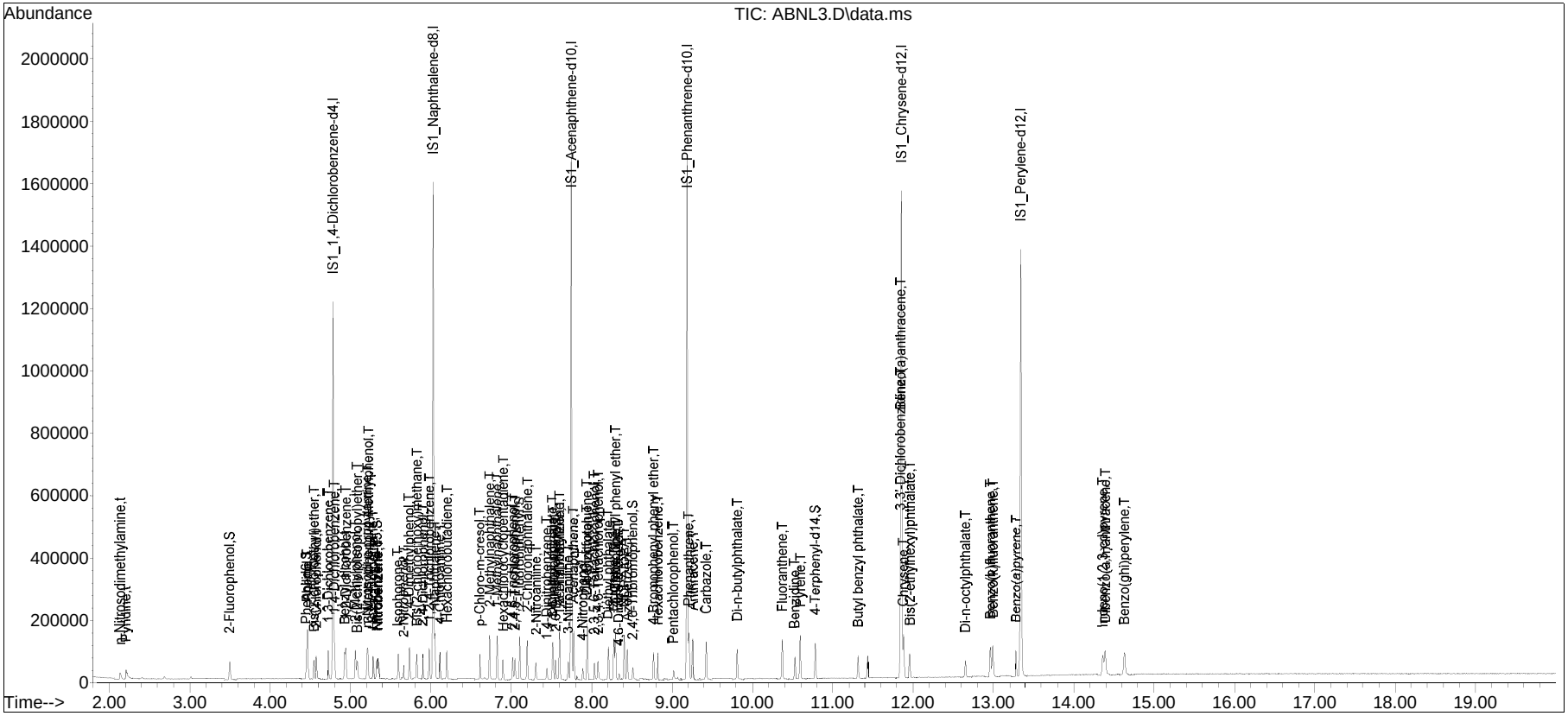
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181205ical\
Data File : ABNL3.D
Acq On : 05 Dec 2018 11:15 pm
Operator : sv112:cb
Sample : IL8,32,,ABNL3 Lot#7791
Misc : WG1186464,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 06 15:13:26 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 15:13:19 2018
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublistal\ABNL7.D•



Manual Integration Report

Data Path	: I:\8270\SV112\181205ical\	QMethod	: FS181205SV112.m
Data File	: ABNL3.D	Operator	: sv112:cb
Date Inj'd	: 12/5/2018 11:15 pm	Instrument	: SV112
Sample	: IL8,32,,ABNL3 Lot#7791	Quant Date	: 12/6/2018 3:13 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181205ical\
Data File : ABNL2.D
Acq On : 05 Dec 2018 11:41 pm
Operator : sv112:cb
Sample : IL9,32,,ABNL2 Lot#7790
Misc : WG1186464,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 06 13:23:48 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 13:23:41 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\181205ical\ABNL7.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.783	152	157437	40.000	ug/ml	0.00
Standard Area 1 = 153313			Recovery = 102.69%			
34) IS1_Naphthalene-d8	6.026	136	634155	40.000	ug/ml	0.00
Standard Area 1 = 638567			Recovery = 99.31%			
62) IS1_Acenaphthene-d10	7.745	164	306837	40.000	ug/ml	0.00
Standard Area 1 = 323009			Recovery = 94.99%			
87) IS1_Phenanthrene-d10	9.187	188	519859	40.000	ug/ml	0.00
Standard Area 1 = 563292			Recovery = 92.29%			
103) IS1_Chrysene-d12	11.857	240	455231	40.000	ug/ml	0.00
Standard Area 1 = 518627			Recovery = 87.78%			
112) IS1_Perylene-d12	13.343	264	447769	40.000	ug/ml	0.00
Standard Area 1 = 513574			Recovery = 87.19%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.503	112	10642	1.923	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 3.85%#			
7) Phenol-d6	4.451	99	13646	2.032	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 4.06%#			
19) Nitrobenzene-d5	5.327	82	11502	1.965	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 7.86%#			
45) 2-Fluorobiphenyl	7.102	172	24404	2.105	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 8.42%#			
78) 2,4,6-Tribromophenol	8.513	330	1988	1.594	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 3.19%#			
95) 4-Terphenyl-d14	10.785	244	20962	1.882	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 7.53%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.138	74	7476	2.041	ug/ml#	89
3) Pyridine	2.216	79	12478	1.986	ug/ml	87
5) Aniline	4.463	93	18111	2.030	ug/ml#	54
6) 2-Chlorophenol	4.575	128	11597	1.969	ug/ml	98
8) Phenol	4.466	94	15829	2.024	ug/ml#	50
9) Bis(2-chloroethyl)ether	4.544	93	11814	2.094	ug/ml	96
10) 1,3-Dichlorobenzene	4.727	146	13254	2.054	ug/ml	98
11) 1,4-Dichlorobenzene	4.799	146	13992M3	2.128	ug/ml	
12) 1,2-Dichlorobenzene	4.948	146	13496	2.144	ug/ml	98
13) Benzyl alcohol	4.935	79	8622	1.927	ug/ml	97
14) Bis(2-chloroisopropyl)...	5.082	45	16624	2.097	ug/ml	95

Data Path : I:\8270\SV112\181205ical\
Data File : ABNL2.D
Acq On : 05 Dec 2018 11:41 pm
Operator : sv112:cb
Sample : IL9,32,,ABNL2 Lot#7790
Misc : WG1186464,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 06 13:23:48 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 13:23:41 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\181205ical\ABNL7.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	5.060	108	10414	1.983	ug/ml	99
16) Hexachloroethane	5.280	117	5067	2.075	ug/ml	97
17) n-Nitrosodi-n-propylamine	5.206	70	7976	2.016	ug/ml#	90
18) 3-Methylphenol/4-Methy...	5.215	108	10621	1.929	ug/ml	97
20) Nitrobenzene	5.346	77	11867	1.983	ug/ml	98
21) Isophorone	5.591	82	20264	1.925	ug/ml	99
22) 2-Nitrophenol	5.663	139	4375	1.532	ug/ml	97
23) 2,4-Dimethylphenol	5.731	107	10366	1.876	ug/ml	96
24) Bis(2-chloroethoxy)met...	5.824	93	14066	2.006	ug/ml	97
25) 2,4-Dichlorophenol	5.899	162	8524	1.859	ug/ml	97
26) 1,2,4-Trichlorobenzene	5.980	180	10647	2.115	ug/ml	98
35) Naphthalene	6.048	128	36423	2.123	ug/ml	100
36) Benzoic Acid	0.000		0	N.D.		
37) 4-Chloroaniline	6.117	65	3941	1.915	ug/ml	88
38) Hexachlorobutadiene	6.197	225	5492	2.138	ug/ml	99
39) p-Chloro-m-cresol	6.611	107	8695	1.845	ug/ml	100
40) 2-Methylnaphthalene	6.732	142	23179	2.080	ug/ml	98
41) 1-Methylnaphthalene	6.825	115	8046	2.118	ug/ml	97
42) Hexachlorocyclopentadiene	6.903	237	5053	1.725	ug/ml#	92
43) 2,4,6-Trichlorophenol	7.018	196	5074	1.734	ug/ml	96
44) 2,4,5-Trichlorophenol	7.046	196	5637	1.762	ug/ml	100
46) 2-Chloronaphthalene	7.201	162	20469	2.051	ug/ml	98
47) 2-Nitroaniline	7.307	138	5046	1.509	ug/ml	97
48) 1,4-Dinitrobenzene	7.444	168	1807	1.227	ug/ml	96
49) 1,3-Dinitrobenzene	7.518	168	2051	1.274	ug/ml	81
50) Dimethyl phthalate	7.512	163	22207	1.943	ug/ml#	98
51) Acenaphthylene	7.602	152	31091	1.960	ug/ml	99
52) 2,6-Dinitrotoluene	7.556	165	3777	1.617	ug/ml	94
53) 1,2-Dinitrobenzene	7.596	168	1701	1.673	ug/ml#	1
63) 3-Nitroaniline	7.711	138	4866	1.664	ug/ml#	97
64) Acenaphthene	7.776	154	19051	2.112	ug/ml	99
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	7.944	168	29034	2.113	ug/ml	98
67) 2,4-Dinitrotoluene	7.944	165	4553	1.559	ug/ml	88
68) 4-Nitrophenol	7.898	65	3002	1.358	ug/ml	96
69) 2,3,5,6-Tetrachlorophenol	8.037	232	3531	1.483	ug/ml	97
70) 2,3,4,6-Tetrachlorophenol	8.078	232	4259	1.763	ug/ml	94
71) Diethyl phthalate	8.205	149	21796	1.928	ug/ml	99
72) Fluorene	8.280	166	21408	2.038	ug/ml	98
73) 4-Chlorophenyl phenyl ...	8.295	204	10148	2.060	ug/ml	94

Data Path : I:\8270\SV112\181205ical\
Data File : ABNL2.D
Acq On : 05 Dec 2018 11:41 pm
Operator : sv112:cb
Sample : IL9,32,,ABNL2 Lot#7790
Misc : WG1186464,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 06 13:23:48 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 13:23:41 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\181205ical\ABNL7.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74)	4-Nitroaniline	8.299	138	4811	1.672	ug/ml	99
75)	4,6-Dinitro-o-cresol	8.339	198	966M2	4.226	ug/ml	
76)	NDPA/DPA	8.410	169	17720	1.951	ug/ml	99
77)	Azobenzene	8.445	77	21194	1.964	ug/ml	99
79)	4-Bromophenyl phenyl e...	8.771	248	5341	2.009	ug/ml	99
80)	Hexachlorobenzene	8.821	284	5679	1.932	ug/ml	93
81)	Pentachlorophenol	9.016	266	1574	2.566	ug/ml#	18
88)	Phenanthrene	9.209	178	33486	2.155	ug/ml	99
89)	Anthracene	9.259	178	30492	2.016	ug/ml	100
90)	Carbazole	9.427	167	28114	1.950	ug/ml	99
91)	Di-n-butylphthalate	9.815	149	27761	1.666	ug/ml	99
92)	Fluoranthene	10.375	202	29902	1.932	ug/ml	100
93)	Benzidine	10.527	184	13634	1.283	ug/ml	98
94)	Pyrene	10.595	202	31730	1.939	ug/ml	98
96)	Butyl benzyl phthalate	11.320	149	9198	1.180	ug/ml	95
104)	Benzo(a)anthracene	11.851	228	28300	1.941	ug/ml	99
105)	3,3'-Dichlorobenzidine	11.845	252	7869	1.480	ug/ml#	91
106)	Chrysene	11.885	228	29655	2.104	ug/ml	99
107)	Bis(2-ethylhexyl)phtha...	11.966	149	11644	2.714	ug/ml#	97
108)	Di-n-octylphthalate	12.653	149	13676	3.190	ug/ml#	90
109)	Benzo(b)fluoranthene	12.967	252	22094	1.704	ug/ml	97
110)	Benzo(k)fluoranthene	12.995	252	25092	1.874	ug/ml	98
111)	Benzo(a)pyrene	13.287	252	19567	1.549	ug/ml	97
113)	Indeno(1,2,3-cd)pyrene	14.363	276	17373M6	1.439	ug/mL	
114)	Dibenzo(a,h)anthracene	14.390	278	20886	1.711	ug/ml	99
115)	Benzo(ghi)perylene	14.633	276	21528	1.763	ug/ml	93

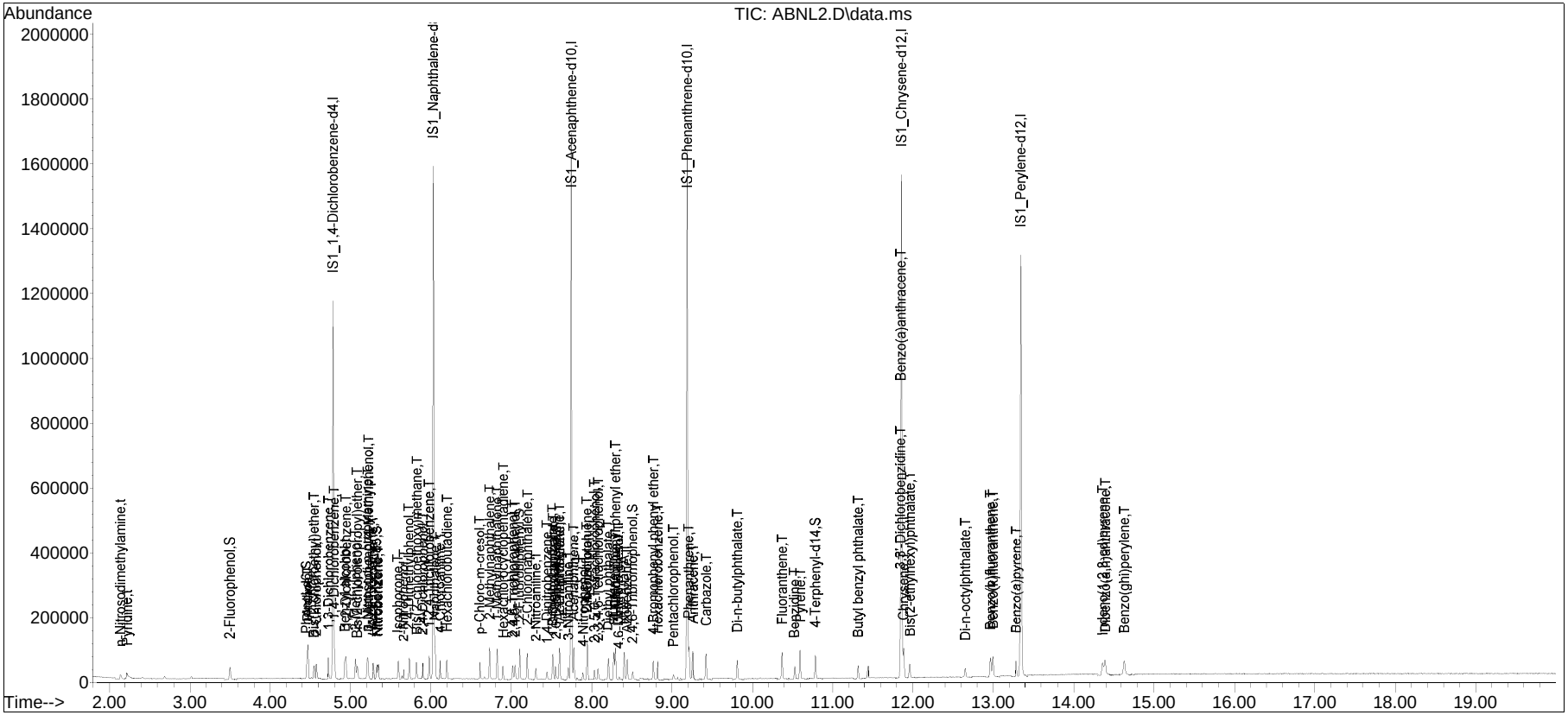
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181205ical\
Data File : ABNL2.D
Acq On : 05 Dec 2018 11:41 pm
Operator : sv112:cb
Sample : IL9,32,,ABNL2 Lot#7790
Misc : WG1186464,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 06 13:23:48 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 13:23:41 2018
Response via : Initial Calibration

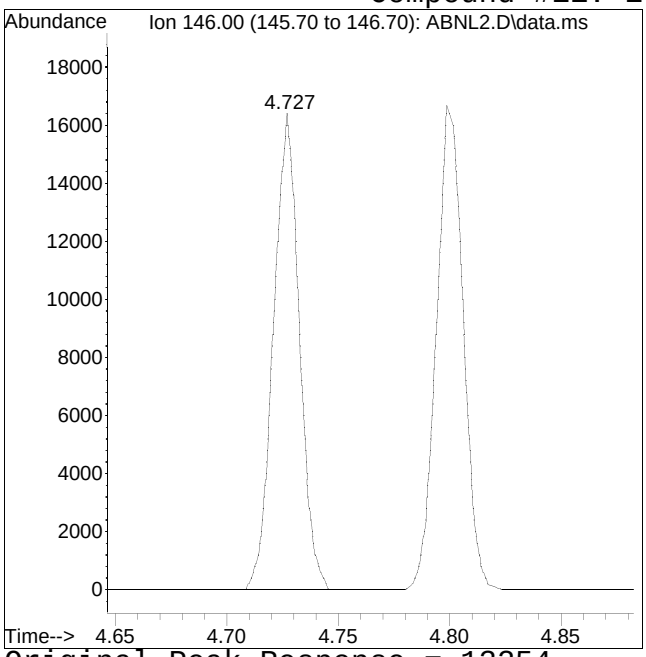
Sub List : ABNical - ABN ical sublistal\ABNL7.D•

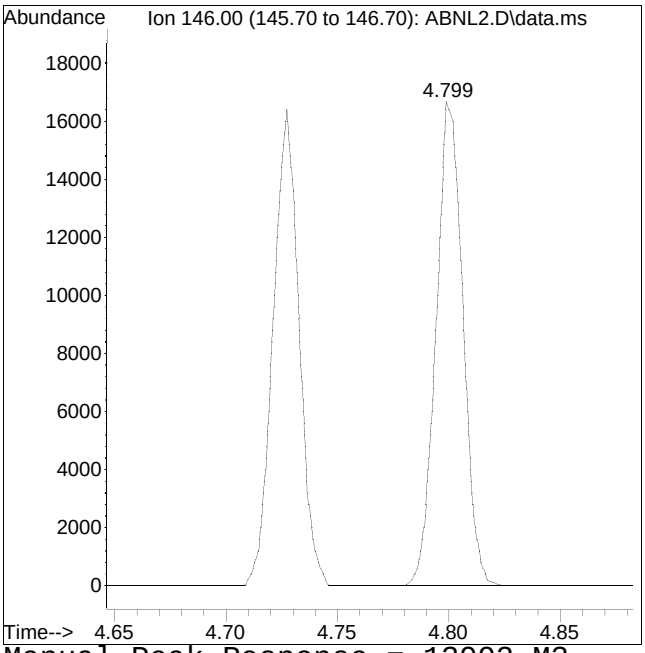


Manual Integration Report

Data Path : I:\8270\SV112\181205ical\ QMethod : FS181205SV112.m
Data File : ABNL2.D Operator : sv112:cb
Date Inj'd : 12/5/2018 11:41 pm Instrument : SV112
Sample : IL9,32,,ABNL2 Lot#7790 Quant Date : 12/6/2018 1:23 pm

Compound #11: 1,4-Dichlorobenzene





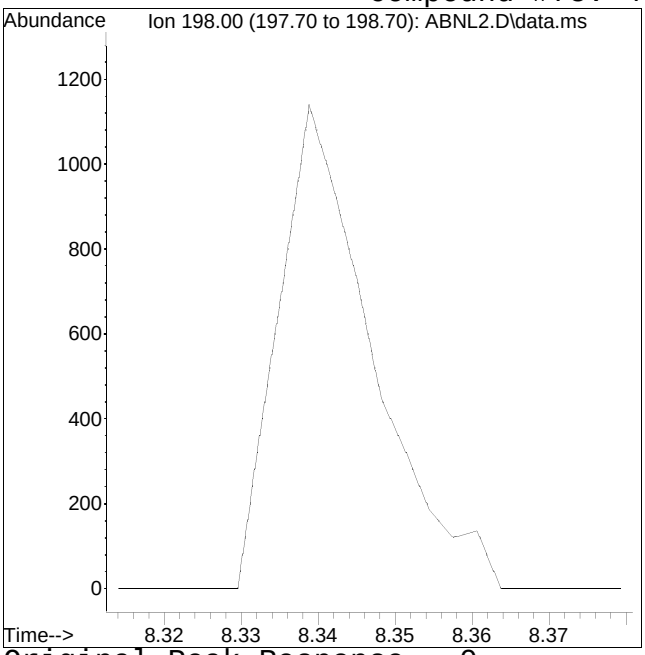
Original Peak Response = 13254 Manual Peak Response = 13992 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

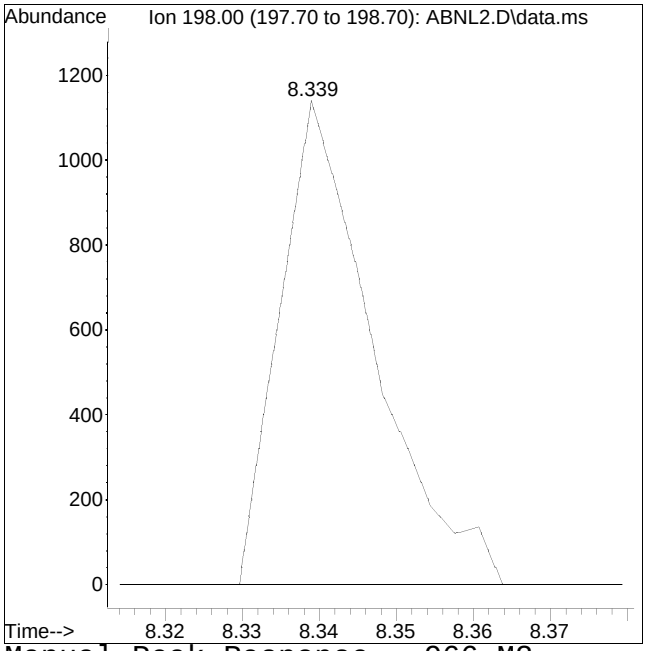
Manual Integration Report

Data Path : I:\8270\SV112\181205ical\ QMethod : FS181205SV112.m
Data File : ABNL2.D Operator : sv112:cb
Date Inj'd : 12/5/2018 11:41 pm Instrument : SV112
Sample : IL9,32,,ABNL2 Lot#7790 Quant Date : 12/6/2018 1:23 pm

Compound #75: 4,6-Dinitro-o-cresol



Original Peak Response = 0



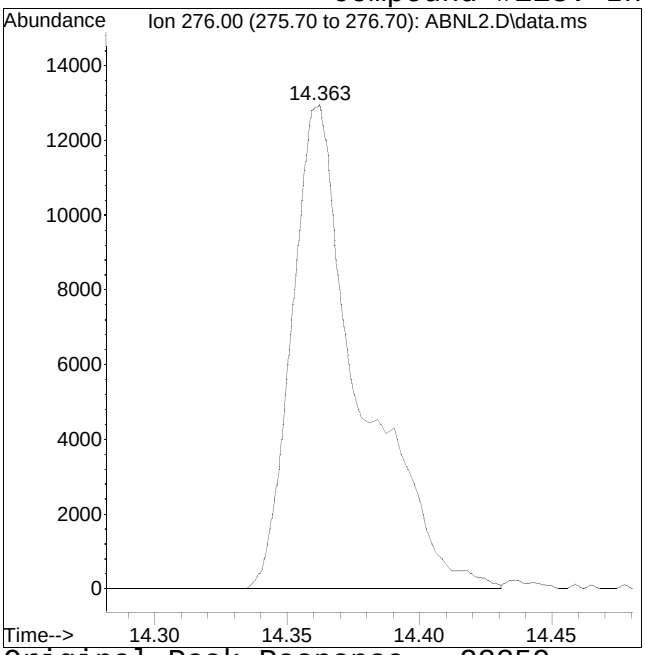
Manual Peak Response = 966 M2

M2 = Peak not found by automatic integration algorithm.

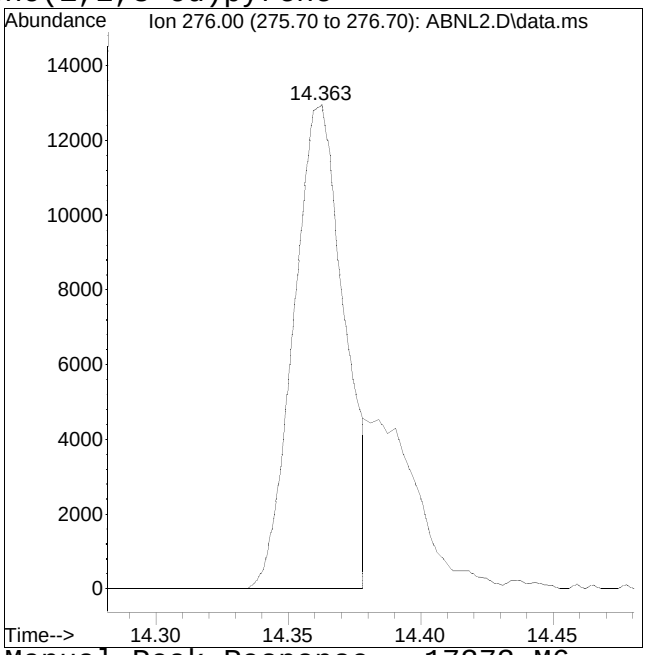
Manual Integration Report

Data Path : I:\8270\SV112\181205ical\ QMethod : FS181205SV112.m
Data File : ABNL2.D Operator : sv112:cb
Date Inj'd : 12/5/2018 11:41 pm Instrument : SV112
Sample : IL9,32,,ABNL2 Lot#7790 Quant Date : 12/6/2018 1:23 pm

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 23359



Manual Peak Response = 17373 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181205ical\
Data File : ABNL1.D
Acq On : 06 Dec 2018 12:06 am
Operator : sv112:cb
Sample : IL10,32,,ABNL1 Lot#7789
Misc : WG1186464,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 06 12:26:17 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 11:43:21 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\181205ical\ABNL7.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.783	152	155334	40.000	ug/ml	0.00
Standard Area 1 = 153313			Recovery = 101.32%			
34) IS1_Naphthalene-d8	6.026	136	638191	40.000	ug/ml	0.00
Standard Area 1 = 638567			Recovery = 99.94%			
62) IS1_Acenaphthene-d10	7.745	164	312651	40.000	ug/ml	0.00
Standard Area 1 = 323009			Recovery = 96.79%			
87) IS1_Phenanthrene-d10	9.187	188	555125	40.000	ug/ml	0.00
Standard Area 1 = 563292			Recovery = 98.55%			
103) IS1_Chrysene-d12	11.857	240	494665	40.000	ug/ml	0.00
Standard Area 1 = 518627			Recovery = 95.38%			
112) IS1_Perylene-d12	13.343	264	494521	40.000	ug/ml	0.00
Standard Area 1 = 513574			Recovery = 96.29%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.499	112	5261	0.961	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 1.92%#			
7) Phenol-d6	4.450	99	6394	0.959	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 1.92%#			
19) Nitrobenzene-d5	5.327	82	5835	1.005	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 4.02%#			
45) 2-Fluorobiphenyl	7.102	172	12037	1.048	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 4.19%#			
78) 2,4,6-Tribromophenol	0.000	330	0	0.000	ug/ml	
Spiked Amount 50.000	Range 15 - 110		Recovery = 0.00%#			
95) 4-Terphenyl-d14	10.782	244	11333	0.932	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 3.73%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.141	74	3492	0.965	ug/ml#	97
3) Pyridine	2.231	79	5043M1	0.805	ug/ml	
5) Aniline	4.463	93	8775	0.992	ug/ml#	52
6) 2-Chlorophenol	4.572	128	5517	0.937	ug/ml	99
8) Phenol	4.466	94	7465	0.964	ug/ml#	46
9) Bis(2-chloroethyl)ether	4.544	93	5730	1.059	ug/ml	96
10) 1,3-Dichlorobenzene	4.727	146	6534	1.049	ug/ml	97
11) 1,4-Dichlorobenzene	4.799	146	6479	1.020	ug/ml	90
12) 1,2-Dichlorobenzene	4.948	146	6429	1.067	ug/ml	96
13) Benzyl alcohol	4.935	79	4041	0.884	ug/ml	96
14) Bis(2-chloroisopropyl)...	5.078	45	8304	1.096	ug/ml#	83

Data Path : I:\8270\SV112\181205ical\
Data File : ABNL1.D
Acq On : 06 Dec 2018 12:06 am
Operator : sv112:cb
Sample : IL10,32,,ABNL1 Lot#7789
Misc : WG1186464,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 06 12:26:17 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 11:43:21 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\181205ical\ABNL7.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	5.057	108	4839	0.920	ug/ml	99
16) Hexachloroethane	5.277	117	2368	0.992	ug/ml	98
17) n-Nitrosodi-n-propylamine	5.206	70	3773	0.954	ug/ml#	62
18) 3-Methylphenol/4-Methy...	5.215	108	5040	0.902	ug/ml#	96
20) Nitrobenzene	5.346	77	5856	0.980	ug/ml#	88
21) Isophorone	5.591	82	9700	0.904	ug/ml#	93
22) 2-Nitrophenol	5.663	139	2034	0.706	ug/ml#	77
23) 2,4-Dimethylphenol	5.731	107	4979	0.894	ug/ml	96
24) Bis(2-chloroethoxy)met...	5.824	93	6907	1.003	ug/ml#	86
25) 2,4-Dichlorophenol	5.899	162	3942	0.850	ug/ml	99
26) 1,2,4-Trichlorobenzene	5.983	180	5048	1.031	ug/ml	98
35) Naphthalene	6.048	128	18048	1.080	ug/ml	98
36) Benzoic Acid	0.000		0	N.D.		
37) 4-Chloroaniline	6.116	65	1993	0.960	ug/ml	94
38) Hexachlorobutadiene	6.197	225	2576	1.036	ug/ml	96
39) p-Chloro-m-cresol	6.611	107	3953	0.818	ug/ml	97
40) 2-Methylnaphthalene	6.732	142	11380	1.033	ug/ml	100
41) 1-Methylnaphthalene	6.825	115	3931	1.060	ug/ml	98
42) Hexachlorocyclopentadiene	6.900	237	2574	0.870	ug/ml#	84
43) 2,4,6-Trichlorophenol	7.018	196	2120	0.675	ug/ml#	83
44) 2,4,5-Trichlorophenol	7.046	196	2848	0.867	ug/ml#	84
46) 2-Chloronaphthalene	7.201	162	10029	0.999	ug/ml	98
47) 2-Nitroaniline	7.310	138	2316	0.664	ug/ml	97
48) 1,4-Dinitrobenzene	7.441	168	734M2	0.491	ug/ml	
49) 1,3-Dinitrobenzene	7.518	168	914M2	0.539	ug/ml	
50) Dimethyl phthalate	7.509	163	11249	0.958	ug/ml#	96
51) Acenaphthylene	7.602	152	15179	0.923	ug/ml	99
52) 2,6-Dinitrotoluene	7.556	165	1586	0.634	ug/ml#	86
53) 1,2-Dinitrobenzene	7.596	168	599M2	0.541	ug/ml	
63) 3-Nitroaniline	7.708	138	2062	0.667	ug/ml#	89
64) Acenaphthene	7.773	154	9624	1.084	ug/ml	99
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	7.944	168	14543	1.063	ug/ml	97
67) 2,4-Dinitrotoluene	7.941	165	1972	0.602	ug/ml#	83
68) 4-Nitrophenol	7.894	65	1304	0.565	ug/ml#	58
69) 2,3,5,6-Tetrachlorophenol	8.037	232	1604	0.649	ug/ml#	68
70) 2,3,4,6-Tetrachlorophenol	8.075	232	1692	0.673	ug/ml#	72
71) Diethyl phthalate	8.205	149	10421	0.883	ug/ml	98
72) Fluorene	8.277	166	10465	0.978	ug/ml	100
73) 4-Chlorophenyl phenyl ...	8.298	204	5233	1.068	ug/ml	94

Data Path : I:\8270\SV112\181205ical\
Data File : ABNL1.D
Acq On : 06 Dec 2018 12:06 am
Operator : sv112:cb
Sample : IL10,32,,ABNL1 Lot#7789
Misc : WG1186464,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 06 12:26:17 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 11:43:21 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\181205ical\ABNL7.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74)	4-Nitroaniline	8.301	138	1912	0.628	ug/ml	84
75)	4,6-Dinitro-o-cresol	0.000		0	N.D.		
76)	NDPA/DPA	8.410	169	8876	0.944	ug/ml	97
77)	Azobenzene	8.448	77	9941	0.884	ug/ml	99
79)	4-Bromophenyl phenyl e...	8.771	248	2679	1.006	ug/ml	98
80)	Hexachlorobenzene	8.821	284	3061	1.047	ug/ml#	76
81)	Pentachlorophenol	0.000		0	N.D.	d	
88)	Phenanthrene	9.209	178	17412	1.092	ug/ml	96
89)	Anthracene	9.259	178	15070	0.932	ug/ml	98
90)	Carbazole	9.424	167	13761	0.879	ug/ml	100
91)	Di-n-butylphthalate	9.815	149	13137	0.662	ug/ml#	93
92)	Fluoranthene	10.372	202	15374	0.920	ug/ml	99
93)	Benzidine	10.524	184	6135	0.501	ug/ml#	68
94)	Pyrene	10.592	202	16545	0.933	ug/ml	99
96)	Butyl benzyl phthalate	11.316	149	4257	0.483	ug/ml#	76
104)	Benzo(a)anthracene	11.848	228	14997	0.941	ug/ml	97
105)	3,3'-Dichlorobenzidine	11.842	252	3330	0.549	ug/ml#	75
106)	Chrysene	11.882	228	15468M4	1.050	ug/ml	
107)	Bis(2-ethylhexyl)phtha...	11.963	149	4922	0.392	ug/ml#	93
108)	Di-n-octylphthalate	12.650	149	6381	0.303	ug/ml#	85
109)	Benzo(b)fluoranthene	12.967	252	11029M3	0.753	ug/ml	
110)	Benzo(k)fluoranthene	12.992	252	11753	0.782	ug/ml	99
111)	Benzo(a)pyrene	13.287	252	9402	0.650	ug/ml	97
113)	Indeno(1,2,3-cd)pyrene	14.359	276	8814M6	0.634	ug/mL	
114)	Dibenzo(a,h)anthracene	14.387	278	10074	0.711	ug/ml	99
115)	Benzo(ghi)perylene	14.630	276	10646	0.769	ug/ml#	90

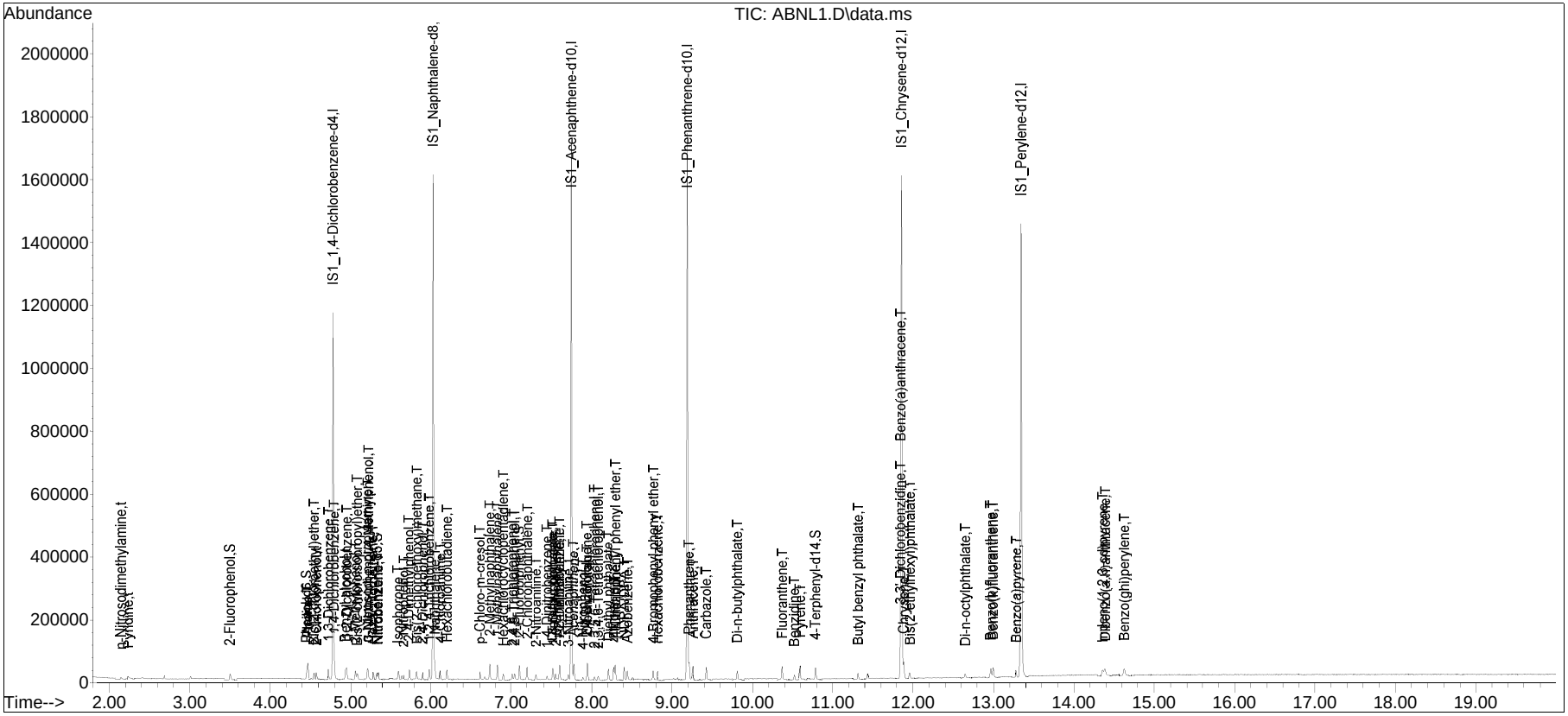
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181205ical\
Data File : ABNL1.D
Acq On : 06 Dec 2018 12:06 am
Operator : sv112:cb
Sample : IL10,32,,ABNL1 Lot#7789
Misc : WG1186464,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 06 12:26:17 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 11:43:21 2018
Response via : Initial Calibration

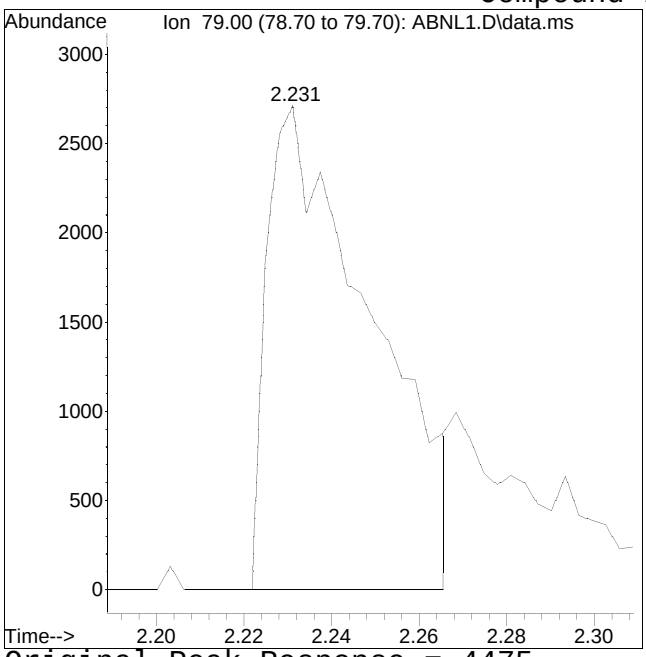
Sub List : ABNical - ABN ical sublistal\ABNL7.D•



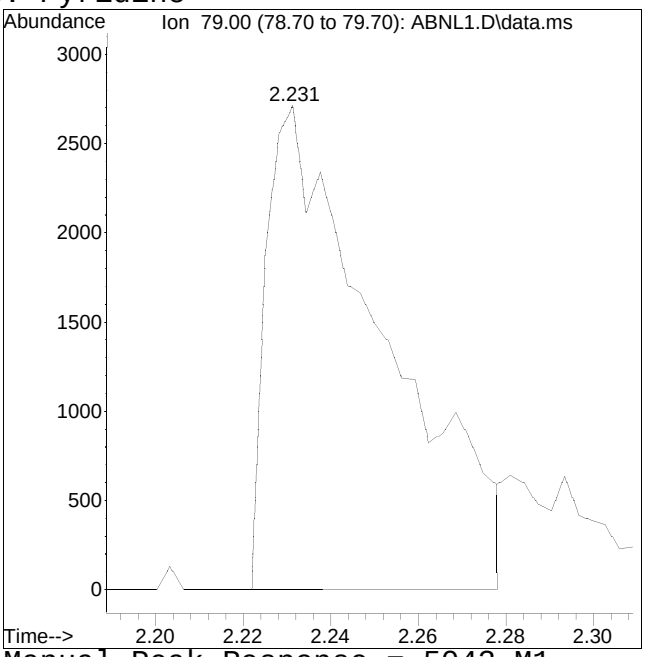
Manual Integration Report

Data Path : I:\8270\SV112\181205ical\ QMethod : FS181205SV112.m
Data File : ABNL1.D Operator : sv112:cb
Date Inj'd : 12/6/2018 12:06 am Instrument : SV112
Sample : IL10,32,,ABNL1 Lot#7789 Quant Date : 12/6/2018 11:44 am

Compound #3: Pyridine



Original Peak Response = 4475



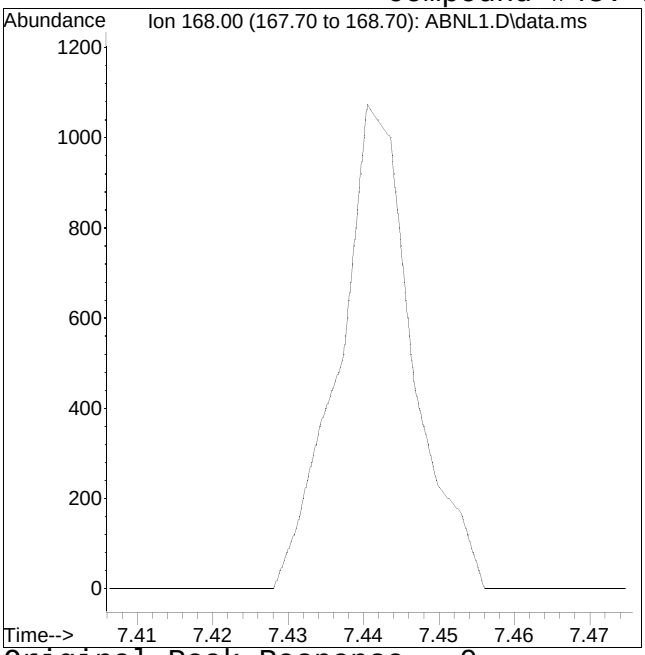
Manual Peak Response = 5043 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

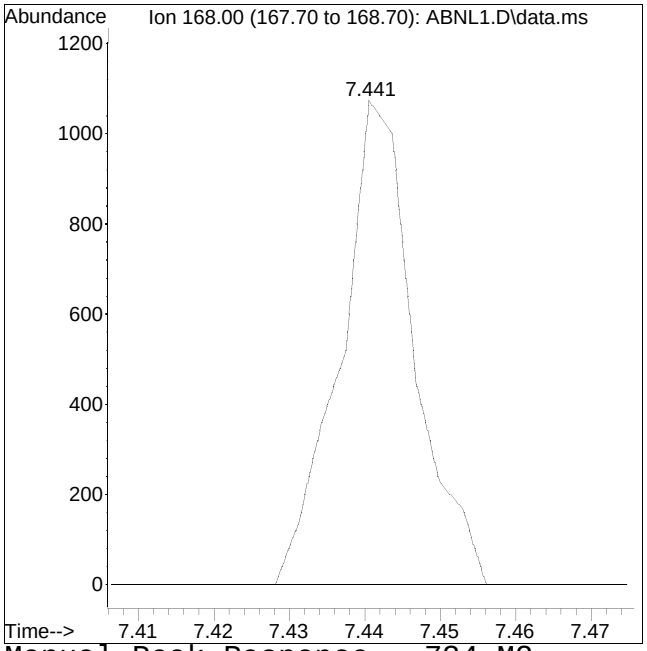
Manual Integration Report

Data Path : I:\8270\SV112\181205ical\ QMethod : FS181205SV112.m
Data File : ABNL1.D Operator : sv112:cb
Date Inj'd : 12/6/2018 12:06 am Instrument : SV112
Sample : IL10,32,,ABNL1 Lot#7789 Quant Date : 12/6/2018 11:44 am

Compound #48: 1,4-Dinitrobenzene



Original Peak Response = 0



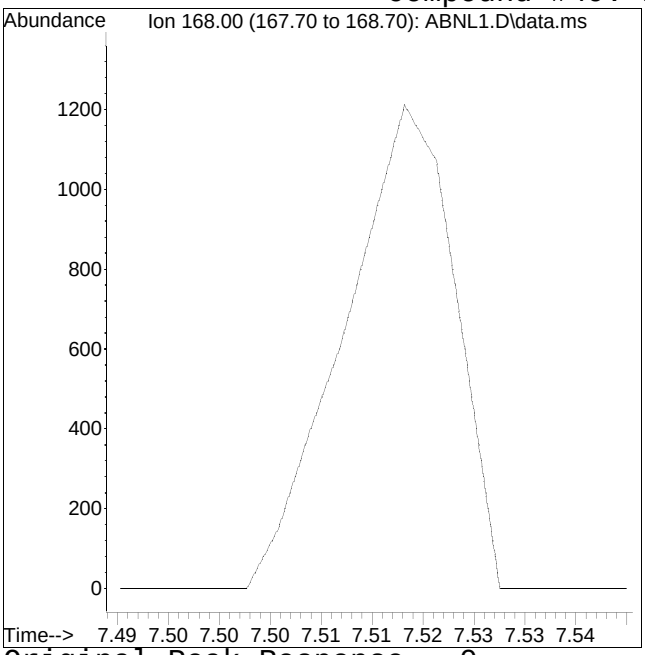
Manual Peak Response = 734 M2

M2 = Peak not found by automatic integration algorithm.

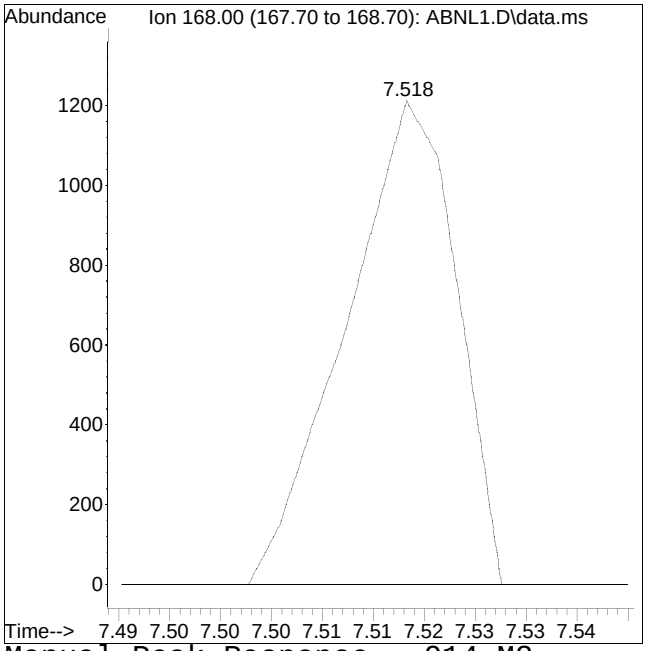
Manual Integration Report

Data Path : I:\8270\SV112\181205ical\ QMethod : FS181205SV112.m
Data File : ABNL1.D Operator : sv112:cb
Date Inj'd : 12/6/2018 12:06 am Instrument : SV112
Sample : IL10,32,,ABNL1 Lot#7789 Quant Date : 12/6/2018 11:44 am

Compound #49: 1,3-Dinitrobenzene



Original Peak Response = 0



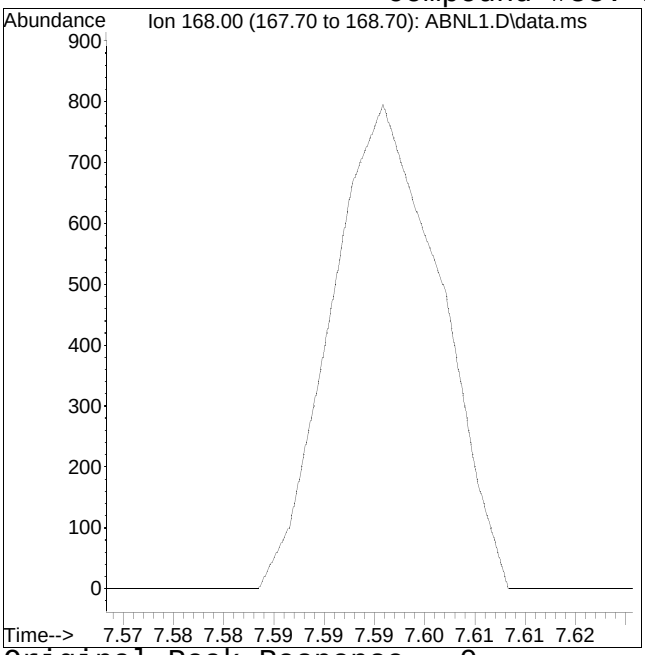
Manual Peak Response = 914 M2

M2 = Peak not found by automatic integration algorithm.

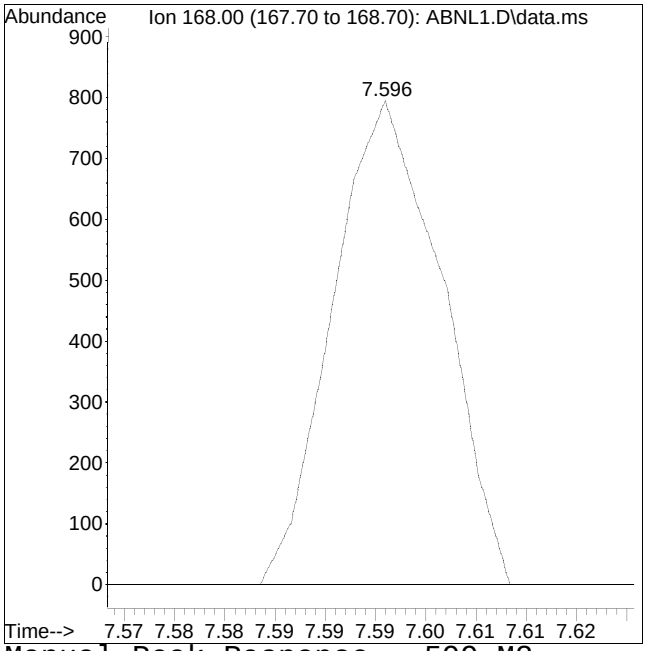
Manual Integration Report

Data Path : I:\8270\SV112\181205ical\ QMethod : FS181205SV112.m
Data File : ABNL1.D Operator : sv112:cb
Date Inj'd : 12/6/2018 12:06 am Instrument : SV112
Sample : IL10,32,,ABNL1 Lot#7789 Quant Date : 12/6/2018 11:44 am

Compound #53: 1,2-Dinitrobenzene



Original Peak Response = 0



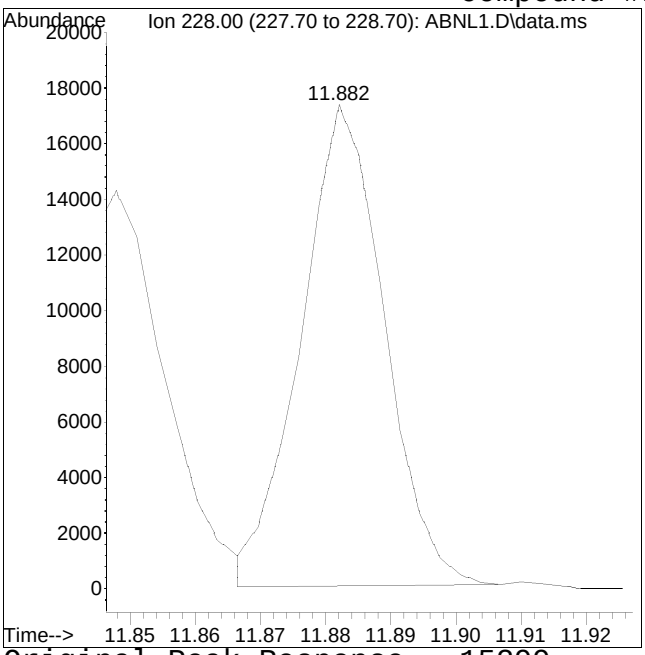
Manual Peak Response = 599 M2

M2 = Peak not found by automatic integration algorithm.

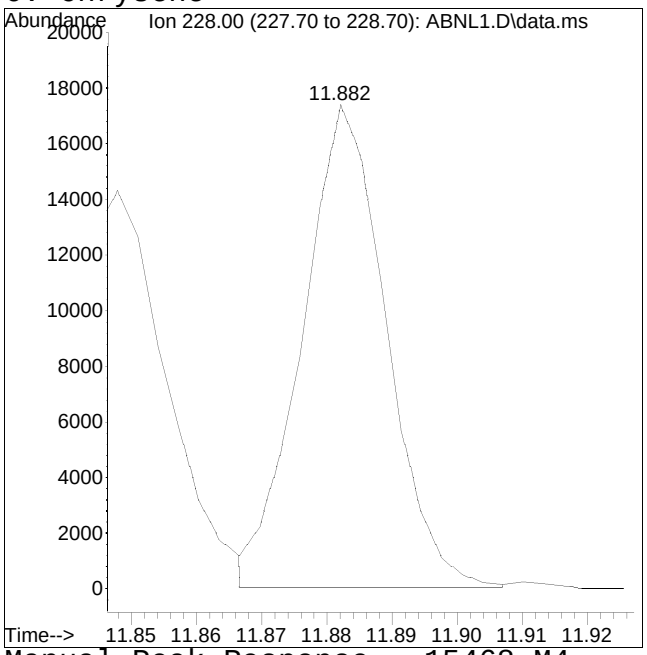
Manual Integration Report

Data Path : I:\8270\SV112\181205ical\ QMethod : FS181205SV112.m
Data File : ABNL1.D Operator : sv112:cb
Date Inj'd : 12/6/2018 12:06 am Instrument : SV112
Sample : IL10,32,,ABNL1 Lot#7789 Quant Date : 12/6/2018 11:44 am

Compound #106: Chrysene



Original Peak Response = 15299



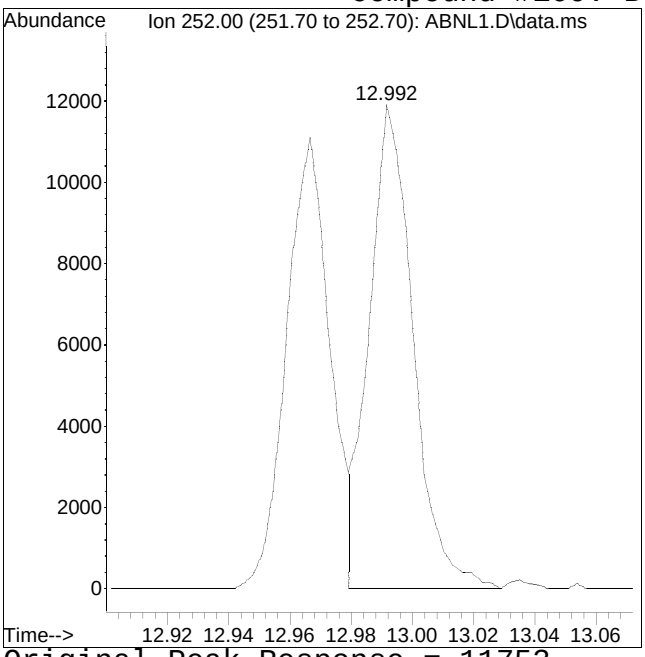
Manual Peak Response = 15468 M4

M4 = Poor automated baseline construction.

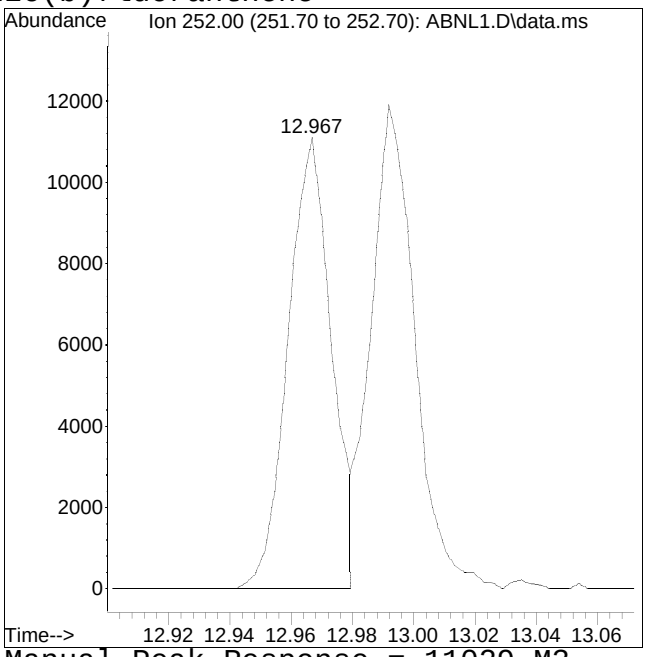
Manual Integration Report

Data Path : I:\8270\SV112\181205ical\ QMethod : FS181205SV112.m
Data File : ABNL1.D Operator : sv112:cb
Date Inj'd : 12/6/2018 12:06 am Instrument : SV112
Sample : IL10,32,,ABNL1 Lot#7789 Quant Date : 12/6/2018 11:44 am

Compound #109: Benzo(b)fluoranthene



Original Peak Response = 11753



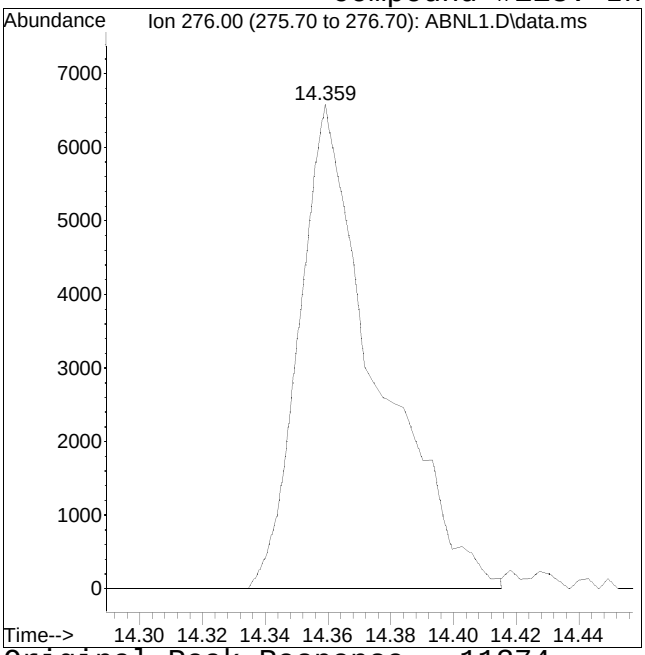
Manual Peak Response = 11029 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

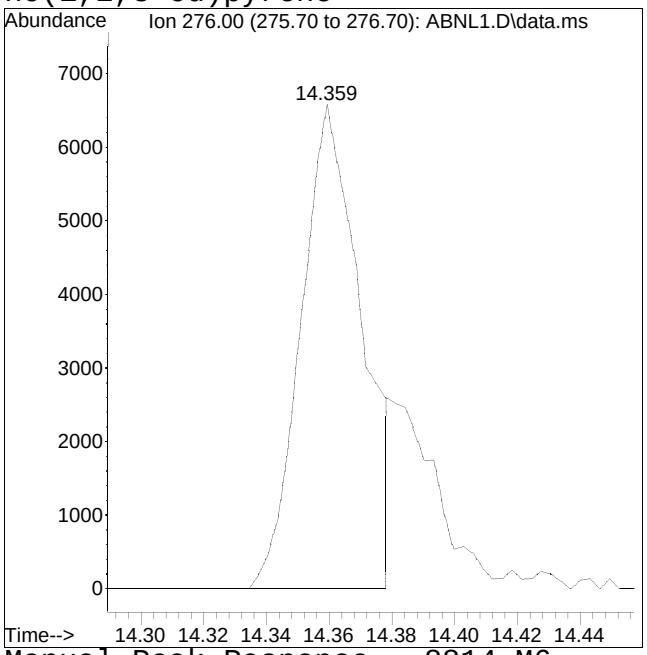
Manual Integration Report

Data Path : I:\8270\SV112\181205ical\ QMethod : FS181205SV112.m
Data File : ABNL1.D Operator : sv112:cb
Date Inj'd : 12/6/2018 12:06 am Instrument : SV112
Sample : IL10,32,,ABNL1 Lot#7789 Quant Date : 12/6/2018 11:44 am

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 11374



Manual Peak Response = 8814 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181205ical\
Data File : AP9L10.D
Acq On : 06 Dec 2018 12:32 am
Operator : sv112:cb
Sample : IL11,32,,AP9L200 Lot#7799
Misc : WG1186464,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 06 14:07:56 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 13:52:45 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\181205ical\AP9L7.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.783	152	160765	40.000	ug/ml	0.00
Standard Area 1 = 171382			Recovery =	93.81%		
54) IS2_Naphthalene-d8	6.026	136	652525	40.000	ug/ml	0.00
Standard Area 1 = 698941			Recovery =	93.36%		
82) IS2_Acenaphthene-d10	7.745	164	319087	40.000	ug/ml	0.00
Standard Area 1 = 344549			Recovery =	92.61%		
97) IS2_Phenanthrene-d10	9.187	188	559072	40.000	ug/ml	0.00
Standard Area 1 = 605264			Recovery =	92.37%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.348	105	952132	200.689	ug/ml	100
29) Acetophenone	5.187	105	1590737	197.910	ug/ml	94
30) m-Toluidine	5.268	106	1574064	198.481	ug/ml	100
31) 2-Chloroaniline	5.632	127	1432880	199.352	ug/ml	98
55) a-Terpineol	6.089	59	811736	190.127	ug/ml	89
56) 3-Chloroaniline	6.101	65	417897	192.243	ug/ml	86
57) 2,6-Dichlorophenol	6.129	162	880080	203.135	ug/ml	93
58) 1-chloro-2-nitrobenzene	6.384	111	453699	208.072	ug/ml	97
59) Caprolactam	6.443	55	492352	210.240	ug/ml#	89
60) 1,2,4,5-Tetrachloroben...	6.903	216	871992	204.611	ug/ml	99
61) Biphenyl	7.198	154	2375780	190.541	ug/ml	99
83) Dichloran	8.883	206	266813	232.661	ug/ml	88
84) Pentachloronitrobenzene	9.035	237	252835	219.018	ug/ml	93
98) Diphenamid	10.101	167	1497026	203.733	ug/ml	95

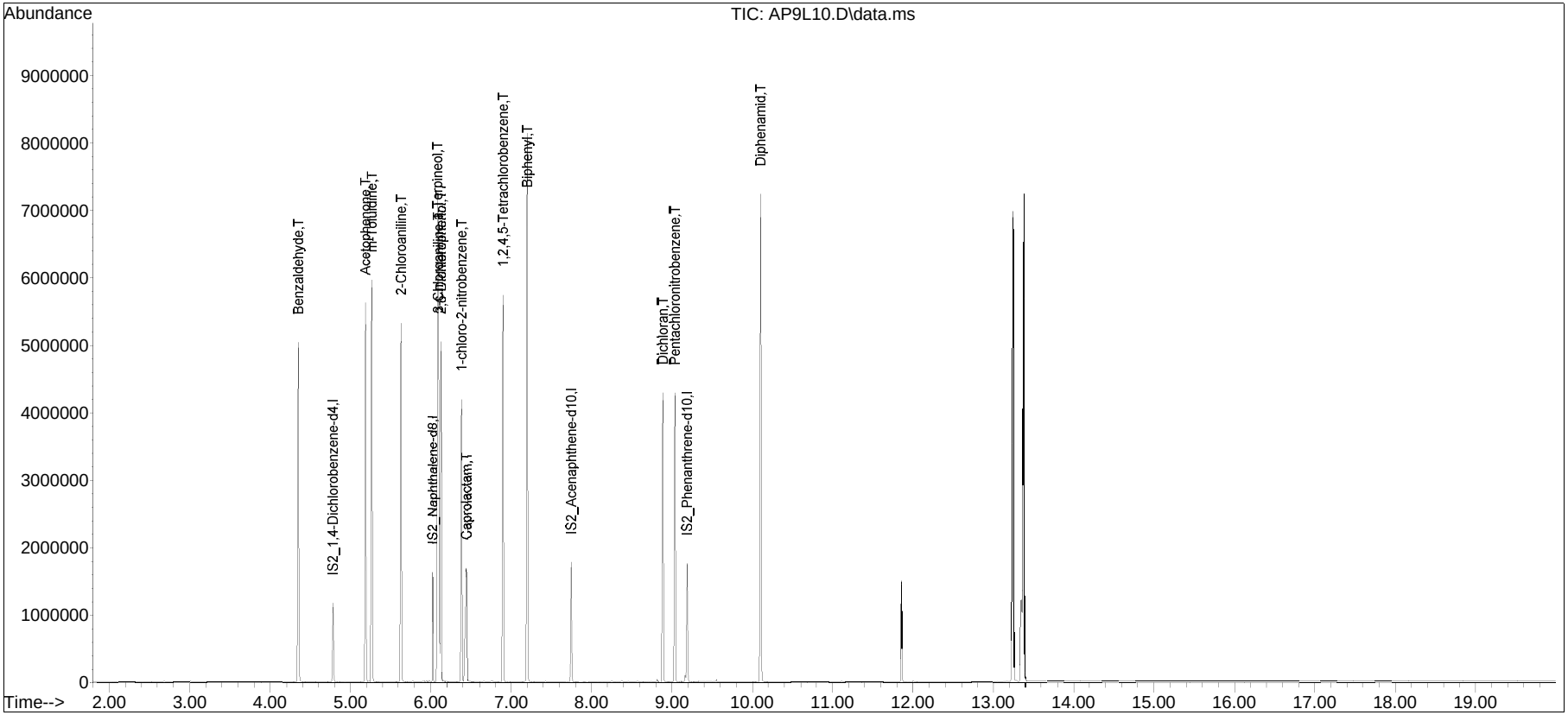
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181205ical\
Data File : AP9L10.D
Acq On : 06 Dec 2018 12:32 am
Operator : sv112:cb
Sample : IL11,32,,AP9L200 Lot#7799
Misc : WG1186464,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 06 14:07:56 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 13:52:45 2018
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L7.D•



Manual Integration Report

Data Path	: I:\8270\SV112\181205ical\	QMethod	: FS181205SV112.m
Data File	: AP9L10.D	Operator	: sv112:cb
Date Inj'd	: 12/6/2018 12:32 am	Instrument	: SV112
Sample	: IL11,32,,AP9L200 Lot#7799	Quant Date	: 12/6/2018 1:55 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181205ical\
Data File : AP9L9.D
Acq On : 06 Dec 2018 12:58 am
Operator : sv112:cb
Sample : IL12,32,,AP9L150 Lot#7808
Misc : WG1186464,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 06 14:14:11 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 13:52:45 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\181205ical\AP9L7.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.783	152	166342	40.000	ug/ml	0.00
Standard Area 1 = 171382			Recovery =	97.06%		
54) IS2_Naphthalene-d8	6.026	136	680463	40.000	ug/ml	0.00
Standard Area 1 = 698941			Recovery =	97.36%		
82) IS2_Acenaphthene-d10	7.745	164	334026	40.000	ug/ml	0.00
Standard Area 1 = 344549			Recovery =	96.95%		
97) IS2_Phenanthrene-d10	9.187	188	594918	40.000	ug/ml	0.00
Standard Area 1 = 605264			Recovery =	98.29%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.348	105	737429	150.223	ug/ml	99
29) Acetophenone	5.187	105	1233106	148.272	ug/ml	94
30) m-Toluidine	5.268	106	1203825	146.706	ug/ml	99
31) 2-Chloroaniline	5.628	127	1108983	149.116	ug/ml	98
55) a-Terpineol	6.088	59	641359	144.053	ug/ml	90
56) 3-Chloroaniline	6.098	65	327163	144.324	ug/ml	86
57) 2,6-Dichlorophenol	6.129	162	684809	151.574	ug/ml	94
58) 1-chloro-2-nitrobenzene	6.384	111	350540	154.161	ug/ml	97
59) Caprolactam	6.440	55	384296	157.361	ug/ml	90
60) 1,2,4,5-Tetrachloroben...	6.903	216	675437	151.982	ug/ml	100
61) Biphenyl	7.198	154	1884498	144.934	ug/ml	99
83) Dichloran	8.883	206	208851	173.973	ug/ml	88
84) Pentachloronitrobenzene	9.032	237	197571	163.491	ug/ml	94
98) Diphenamid	10.101	167	1207861	154.476	ug/ml	96

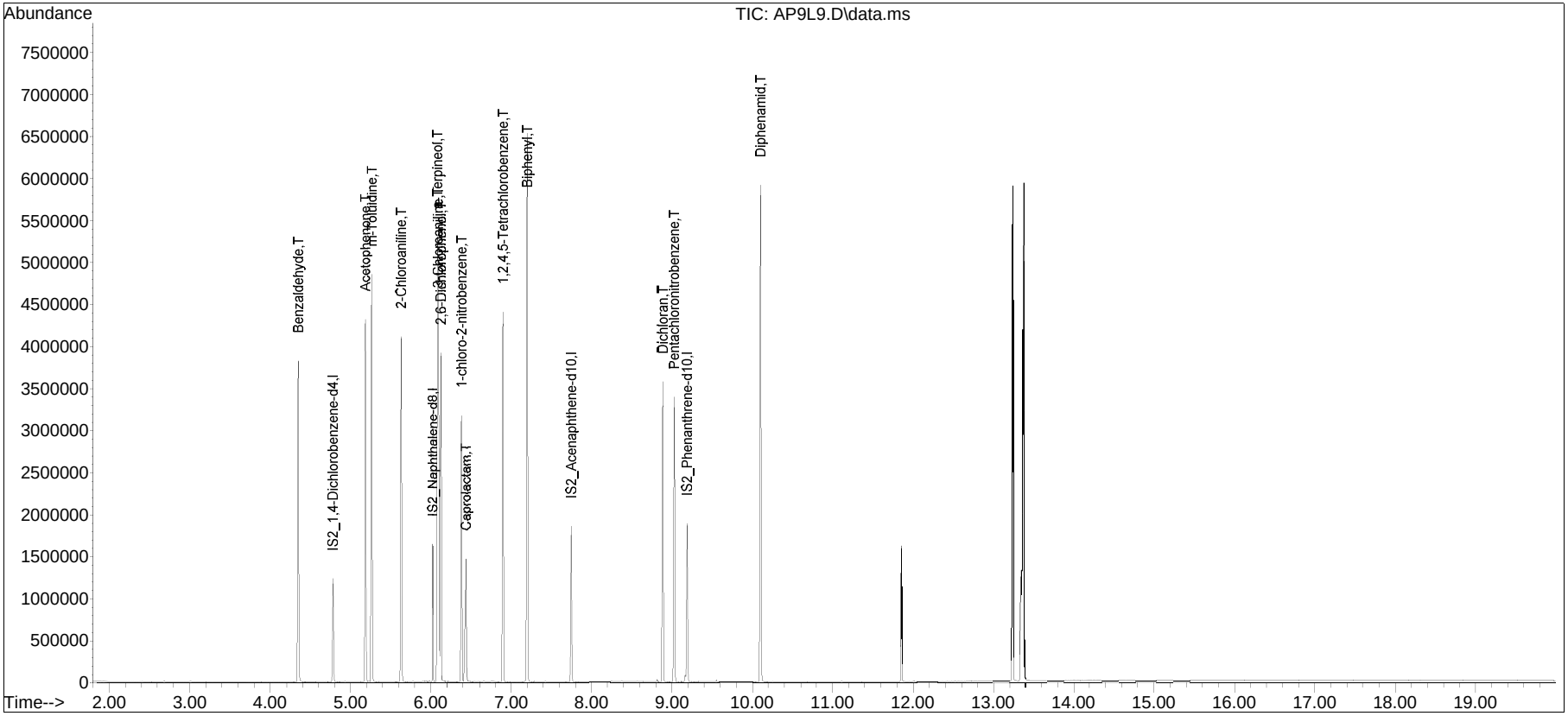
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181205ical\
Data File : AP9L9.D
Acq On : 06 Dec 2018 12:58 am
Operator : sv112:cb
Sample : IL12,32,,AP9L150 Lot#7808
Misc : WG1186464,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 06 14:14:11 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 13:52:45 2018
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L7.D•



Manual Integration Report

Data Path	: I:\8270\SV112\181205ical\	QMethod	: FS181205SV112.m
Data File	: AP9L9.D	Operator	: sv112:cb
Date Inj'd	: 12/6/2018 12:58 am	Instrument	: SV112
Sample	: IL12,32,,AP9L150 Lot#7808	Quant Date	: 12/6/2018 1:56 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181205ical\
Data File : AP9L8.D
Acq On : 06 Dec 2018 01:23 am
Operator : sv112:cb
Sample : IL13,32,,AP9L100 Lot#7807
Misc : WG1186464,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 06 14:13:22 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 13:52:45 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\181205ical\AP9L7.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.783	152	168006	40.000	ug/ml	0.00
Standard Area 1 = 171382			Recovery =	98.03%		
54) IS2_Naphthalene-d8	6.026	136	670656	40.000	ug/ml	0.00
Standard Area 1 = 698941			Recovery =	95.95%		
82) IS2_Acenaphthene-d10	7.745	164	327704	40.000	ug/ml	0.00
Standard Area 1 = 344549			Recovery =	95.11%		
97) IS2_Phenanthrene-d10	9.187	188	568622	40.000	ug/ml	0.00
Standard Area 1 = 605264			Recovery =	93.95%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.345	105	490225	98.875	ug/ml	99
29) Acetophenone	5.184	105	816216	97.172	ug/ml	95
30) m-Toluidine	5.268	106	799989	96.527	ug/ml	99
31) 2-Chloroaniline	5.629	127	731501	97.385	ug/ml	98
55) a-Terpineol	6.085	59	430575	98.124	ug/ml	92
56) 3-Chloroaniline	6.098	65	220148	98.536	ug/ml	88
57) 2,6-Dichlorophenol	6.126	162	446670	100.311	ug/ml	94
58) 1-chloro-2-nitrobenzene	6.381	111	225028	100.410	ug/ml	97
59) Caprolactam	6.430	55	246112	102.252	ug/ml	90
60) 1,2,4,5-Tetrachloroben...	6.900	216	445293	101.662	ug/ml	99
61) Biphenyl	7.195	154	1244780	97.134	ug/ml	99
83) Dichloran	8.880	206	127757	108.475	ug/ml	89
84) Pentachloronitrobenzene	9.032	237	123048	103.787	ug/ml	94
98) Diphenamid	10.098	167	768230	102.794	ug/ml	96

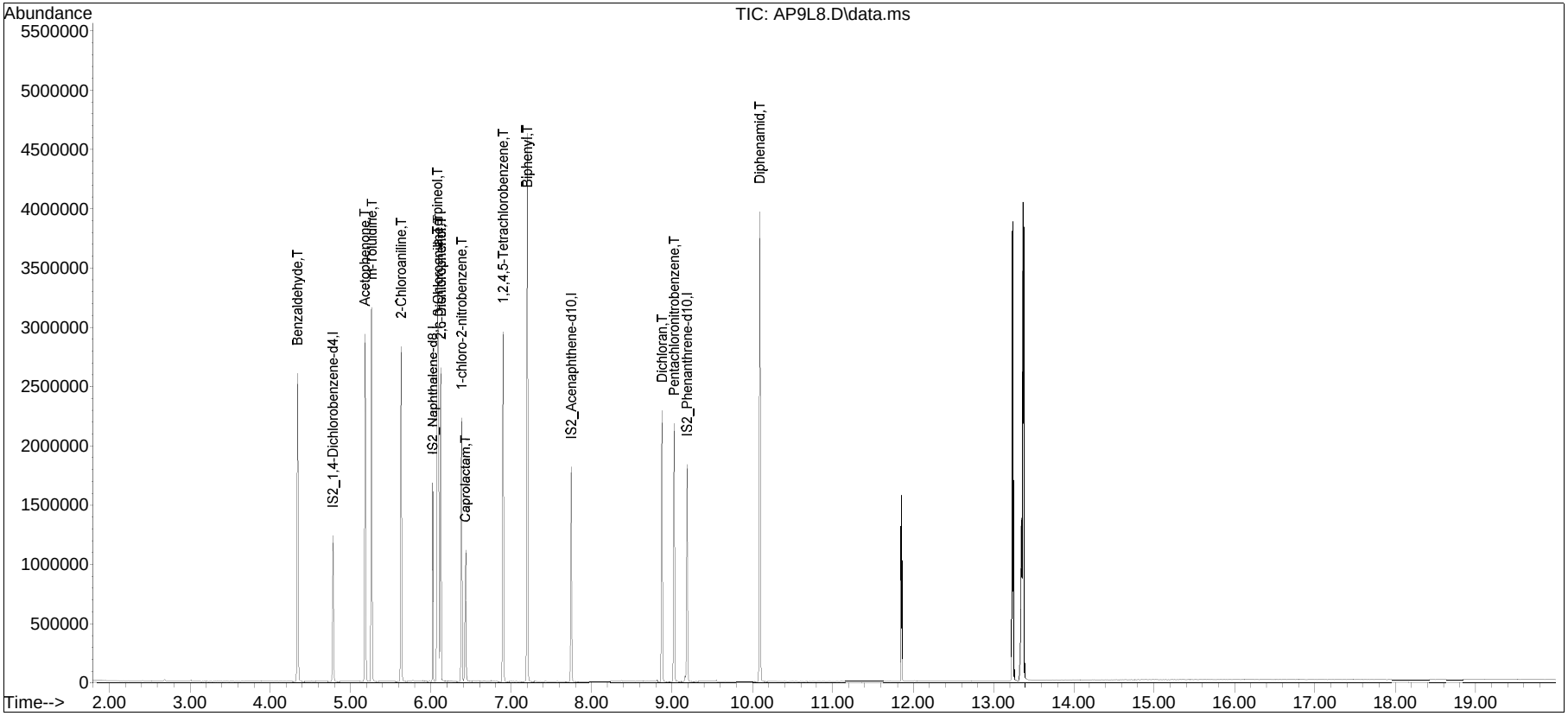
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181205ical\
Data File : AP9L8.D
Acq On : 06 Dec 2018 01:23 am
Operator : sv112:cb
Sample : IL13,32,,AP9L100 Lot#7807
Misc : WG1186464,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 06 14:13:22 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 13:52:45 2018
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L7.D•



Manual Integration Report

Data Path	: I:\8270\SV112\181205ical\	QMethod	: FS181205SV112.m
Data File	: AP9L8.D	Operator	: sv112:cb
Date Inj'd	: 12/6/2018 1:23 am	Instrument	: SV112
Sample	: IL13,32,,AP9L100 Lot#7807	Quant Date	: 12/6/2018 1:56 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181205ical\
Data File : AP9L7.D
Acq On : 06 Dec 2018 01:49 am
Operator : sv112:cb
Sample : IL14,32,,AP9L50 Lot#7806
Misc : WG1186464,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 06 11:43:40 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 11:43:24 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\181205ical\AP9L7.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.783	152	171382	40.000	ug/ml	0.00
Standard Area 1 = 171382			Recovery = 100.00%			
54) IS2_Naphthalene-d8	6.026	136	698941	40.000	ug/ml	0.00
Standard Area 1 = 698941			Recovery = 100.00%			
82) IS2_Acenaphthene-d10	7.742	164	344549	40.000	ug/ml	0.00
Standard Area 1 = 344549			Recovery = 100.00%			
97) IS2_Phenanthrene-d10	9.187	188	605264	40.000	ug/ml	0.00
Standard Area 1 = 605264			Recovery = 100.00%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.345	105	252882	50.000	ug/ml	99
29) Acetophenone	5.184	105	428425	50.000	ug/ml	95
30) m-Toluidine	5.265	106	422715	50.000	ug/ml	100
31) 2-Chloroaniline	5.629	127	383119	50.000	ug/ml	98
55) a-Terpineol	6.082	59	228657	50.000	ug/ml	92
56) 3-Chloroaniline	6.095	65	116421	50.000	ug/ml	89
57) 2,6-Dichlorophenol	6.123	162	232033	50.000	ug/ml	94
58) 1-chloro-2-nitrobenzene	6.378	111	116780	50.000	ug/ml	98
59) Caprolactam	6.421	55	125422	50.000	ug/ml	90
60) 1,2,4,5-Tetrachloroben...	6.900	216	228243	50.000	ug/ml	100
61) Biphenyl	7.192	154	667777	50.000	ug/ml	99
83) Dichloran	8.877	206	61915	50.000	ug/ml	91
84) Pentachloronitrobenzene	9.029	237	62326	50.000	ug/ml	96
98) Diphenamid	10.095	167	397754	50.000	ug/ml	97

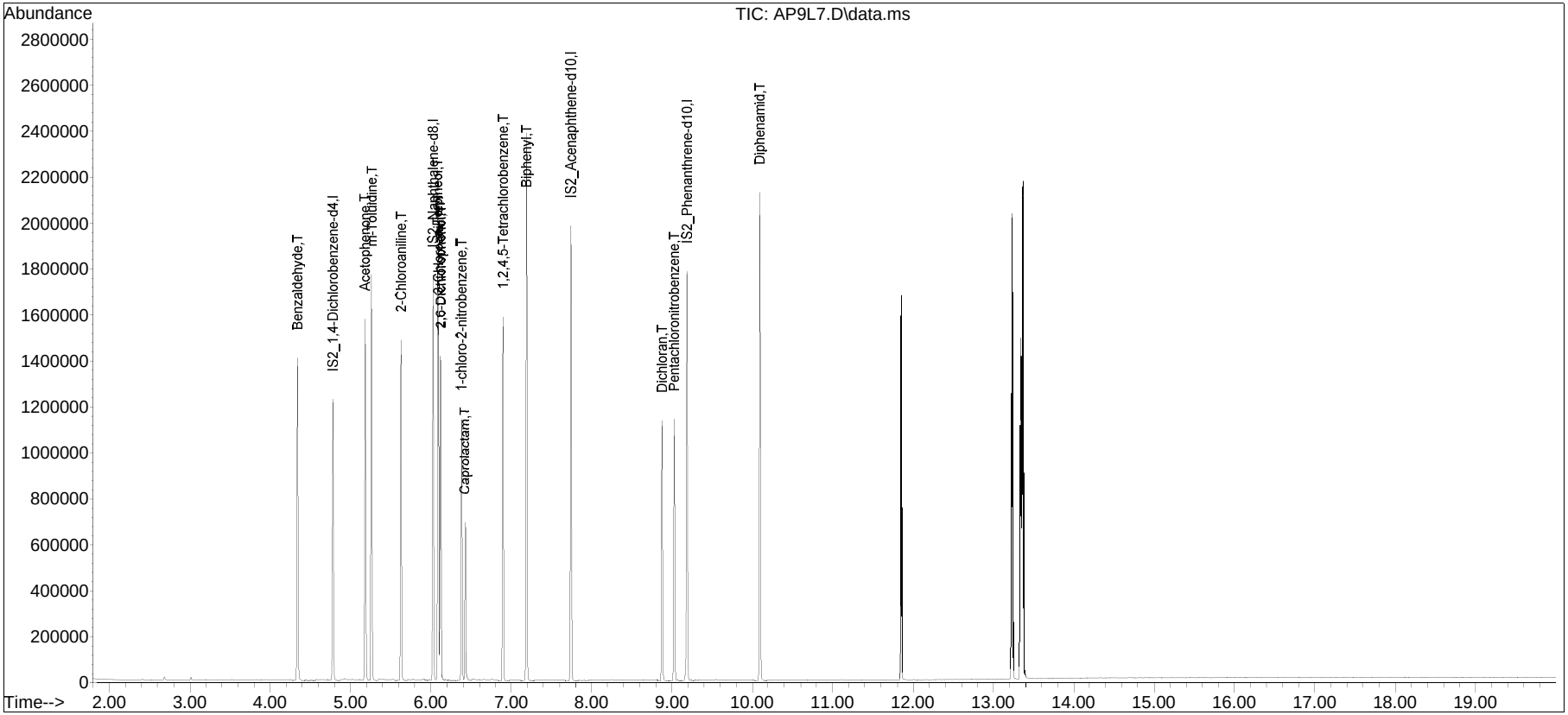
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181205ical\
Data File : AP9L7.D
Acq On : 06 Dec 2018 01:49 am
Operator : sv112:cb
Sample : IL14,32,,AP9L50 Lot#7806
Misc : WG1186464,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 06 11:43:40 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 11:43:24 2018
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L7.D•



Manual Integration Report

Data Path	: I:\8270\SV112\181205ical\	QMethod	: FS181205SV112.m
Data File	: AP9L7.D	Operator	: sv112:cb
Date Inj'd	: 12/6/2018 1:49 am	Instrument	: SV112
Sample	: IL14,32,,AP9L50 Lot#7806	Quant Date	: 12/6/2018 11:43 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181205ical\
Data File : AP9L6.D
Acq On : 06 Dec 2018 02:14 am
Operator : sv112:cb
Sample : IL15,32,,AP9L20 Lot#7805
Misc : WG1186464,,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 06 14:11:56 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 13:52:45 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\181205ical\AP9L7.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.783	152	162607	40.000	ug/ml	0.00
Standard Area 1 = 171382			Recovery =	94.88%		
54) IS2_Naphthalene-d8	6.026	136	648762	40.000	ug/ml	0.00
Standard Area 1 = 698941			Recovery =	92.82%		
82) IS2_Acenaphthene-d10	7.742	164	313383	40.000	ug/ml	0.00
Standard Area 1 = 344549			Recovery =	90.95%		
97) IS2_Phenanthrene-d10	9.184	188	546006	40.000	ug/ml	0.00
Standard Area 1 = 605264			Recovery =	90.21%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.345	105	96262	20.060	ug/ml	100
29) Acetophenone	5.184	105	157670	19.394	ug/ml	96
30) m-Toluidine	5.265	106	155736	19.415	ug/ml	99
31) 2-Chloroaniline	5.628	127	141682	19.488	ug/ml	99
55) a-Terpineol	6.082	59	83526	19.677	ug/ml	93
56) 3-Chloroaniline	6.092	65	43976	20.347	ug/ml	92
57) 2,6-Dichlorophenol	6.123	162	83276	19.333	ug/ml	94
58) 1-chloro-2-nitrobenzene	6.378	111	41317	19.058	ug/ml	98
59) Caprolactam	6.415	55	42548	18.274	ug/ml	92
60) 1,2,4,5-Tetrachloroben...	6.900	216	86191	20.342	ug/ml	99
61) Biphenyl	7.192	154	245783	19.826	ug/ml	99
83) Dichloran	8.877	206	18910	16.790	ug/ml	94
84) Pentachloronitrobenzene	9.029	237	20619	18.186	ug/ml	95
98) Diphenamid	10.095	167	132996	18.533	ug/ml	99

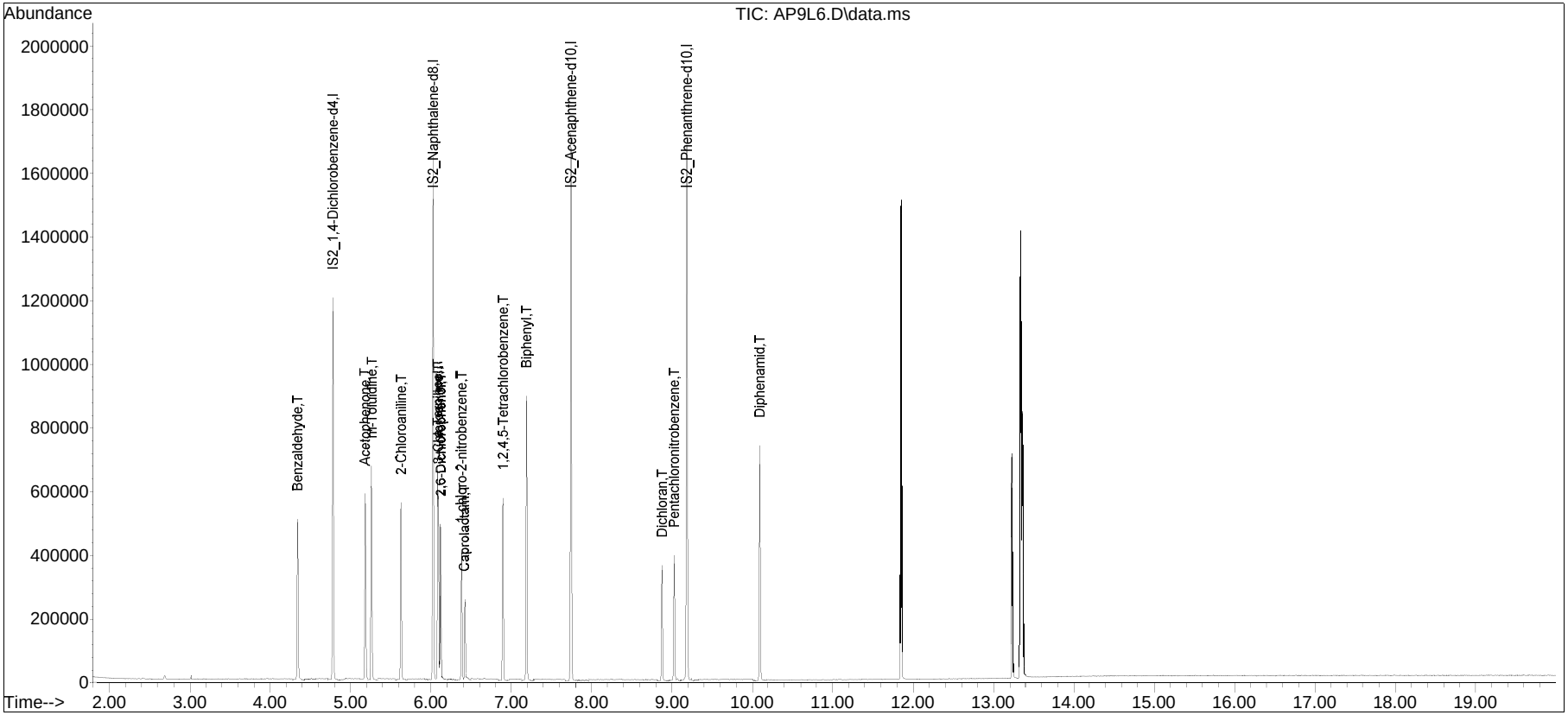
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181205ical\
Data File : AP9L6.D
Acq On : 06 Dec 2018 02:14 am
Operator : sv112:cb
Sample : IL15,32,,AP9L20 Lot#7805
Misc : WG1186464,,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Dec 06 14:11:56 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 13:52:45 2018
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L7.D•



Manual Integration Report

Data Path	: I:\8270\SV112\181205ical\	QMethod	: FS181205SV112.m
Data File	: AP9L6.D	Operator	: sv112:cb
Date Inj'd	: 12/6/2018 2:14 am	Instrument	: SV112
Sample	: IL15,32,,AP9L20 Lot#7805	Quant Date	: 12/6/2018 1:55 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181205ical\
Data File : AP9L5.D
Acq On : 06 Dec 2018 02:40 am
Operator : sv112:cb
Sample : IL16,32,,AP9L10 Lot#7804
Misc : WG1186464,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 06 14:11:07 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 13:52:45 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\181205ical\AP9L7.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.783	152	192272	40.000	ug/ml	0.00
Standard Area 1 = 171382			Recovery = 112.19%			
54) IS2_Naphthalene-d8	6.026	136	785485	40.000	ug/ml	0.00
Standard Area 1 = 698941			Recovery = 112.38%			
82) IS2_Acenaphthene-d10	7.742	164	384360	40.000	ug/ml	0.00
Standard Area 1 = 344549			Recovery = 111.55%			
97) IS2_Phenanthrene-d10	9.184	188	656743	40.000	ug/ml	0.00
Standard Area 1 = 605264			Recovery = 108.51%			
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.348	105	56748	10.001	ug/ml	97
29) Acetophenone	5.184	105	95791	9.965	ug/ml	95
30) m-Toluidine	5.265	106	91445	9.641	ug/ml	99
31) 2-Chloroaniline	5.628	127	85604	9.958	ug/ml	98
55) a-Terpineol	6.082	59	49343	9.601	ug/ml	90
56) 3-Chloroaniline	6.095	65	26647	10.183	ug/ml	92
57) 2,6-Dichlorophenol	6.120	162	49442	9.480	ug/ml	95
58) 1-chloro-2-nitrobenzene	6.378	111	24802	9.449	ug/ml	99
59) Caprolactam	6.415	55	23432	8.312	ug/ml	91
60) 1,2,4,5-Tetrachloroben...	6.900	216	52801	10.292	ug/ml	99
61) Biphenyl	7.192	154	151426	10.089	ug/ml	100
83) Dichloran	8.876	206	10111	7.319	ug/ml	94
84) Pentachloronitrobenzene	9.029	237	11857	8.527	ug/ml	94
98) Diphenamid	10.095	167	75184	8.710	ug/ml	99

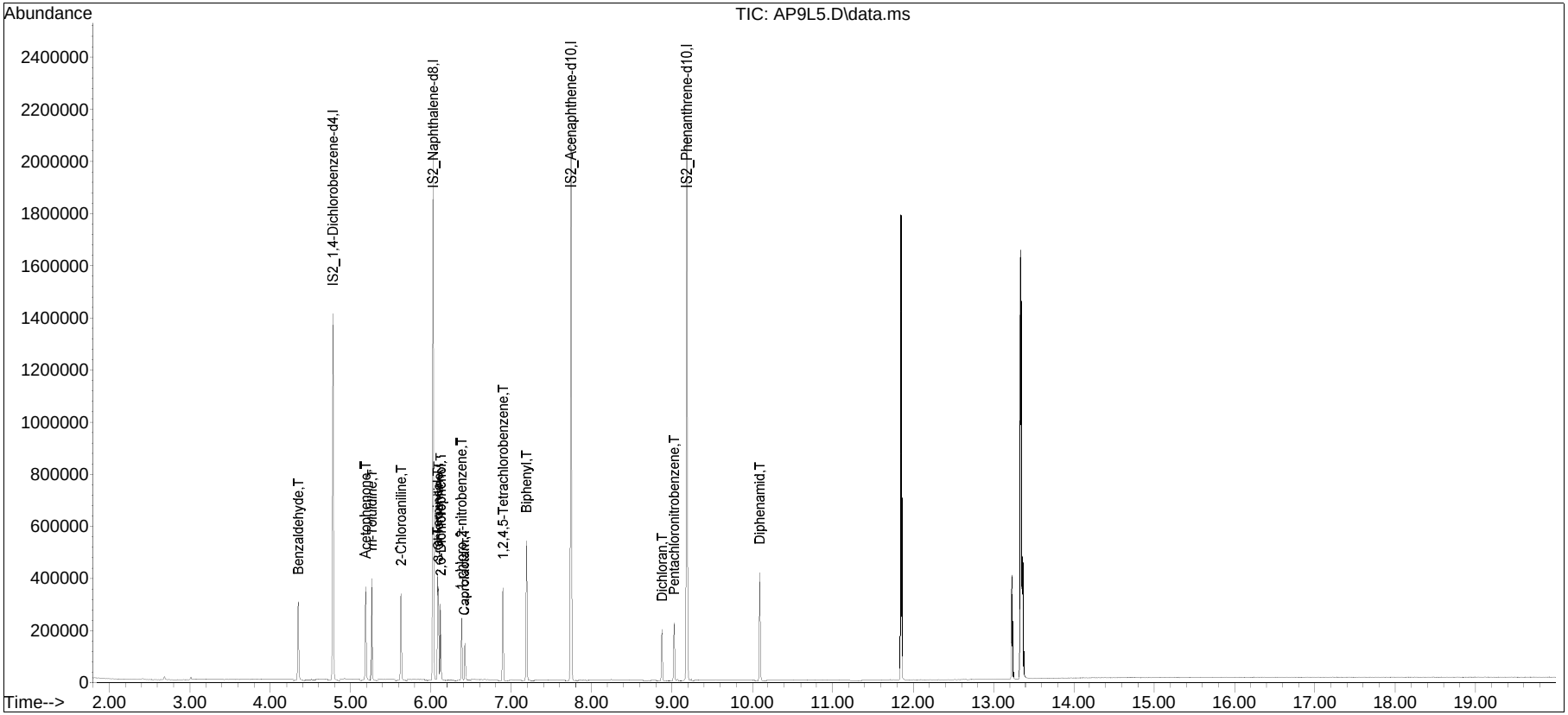
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181205ical\
Data File : AP9L5.D
Acq On : 06 Dec 2018 02:40 am
Operator : sv112:cb
Sample : IL16,32,,AP9L10 Lot#7804
Misc : WG1186464,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 06 14:11:07 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 13:52:45 2018
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L7.D•



Manual Integration Report

Data Path	: I:\8270\SV112\181205ical\	QMethod	: FS181205SV112.m
Data File	: AP9L5.D	Operator	: sv112:cb
Date Inj'd	: 12/6/2018 2:40 am	Instrument	: SV112
Sample	: IL16,32,,AP9L10 Lot#7804	Quant Date	: 12/6/2018 1:55 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181205ical\
Data File : AP9L4.D
Acq On : 06 Dec 2018 03:05 am
Operator : sv112:cb
Sample : IL17,32,,AP9L5 Lot#7803
Misc : WG1186464,,
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Dec 06 15:14:46 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 15:14:37 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\181205ical\AP9L7.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.780	152	170751	40.000	ug/ml	0.00
Standard Area 1 = 171382			Recovery	= 99.63%		
54) IS2_Naphthalene-d8	6.026	136	707334	40.000	ug/ml	0.00
Standard Area 1 = 698941			Recovery	= 101.20%		
82) IS2_Acenaphthene-d10	7.742	164	361027	40.000	ug/ml	0.00
Standard Area 1 = 344549			Recovery	= 104.78%		
97) IS2_Phenanthrene-d10	9.187	188	638156	40.000	ug/ml	0.00
Standard Area 1 = 605264			Recovery	= 105.43%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.345	105	25015	4.957	ug/ml	99
29) Acetophenone	5.184	105	42886	5.075	ug/ml	95
30) m-Toluidine	5.265	106	40473	5.022	ug/ml	98
31) 2-Chloroaniline	5.626	127	37501	5.010	ug/ml	98
55) a-Terpineol	6.079	59	21903	4.947	ug/ml	89
56) 3-Chloroaniline	6.092	65	11883	5.073	ug/ml	93
57) 2,6-Dichlorophenol	6.123	162	21719	4.936	ug/ml	96
58) 1-chloro-2-nitrobenzene	6.378	111	11033	4.874	ug/ml	100
59) Caprolactam	6.415	55	9295	4.032	ug/ml	91
60) 1,2,4,5-Tetrachloroben...	6.900	216	24336	5.072	ug/ml	98
61) Biphenyl	7.192	154	71435	5.242	ug/ml	99
83) Dichloran	8.877	206	4072	6.006	ug/ml	93
84) Pentachloronitrobenzene	9.029	237	5052	4.168	ug/ml	93
98) Diphenamid	10.095	167	32819	4.495	ug/ml	98

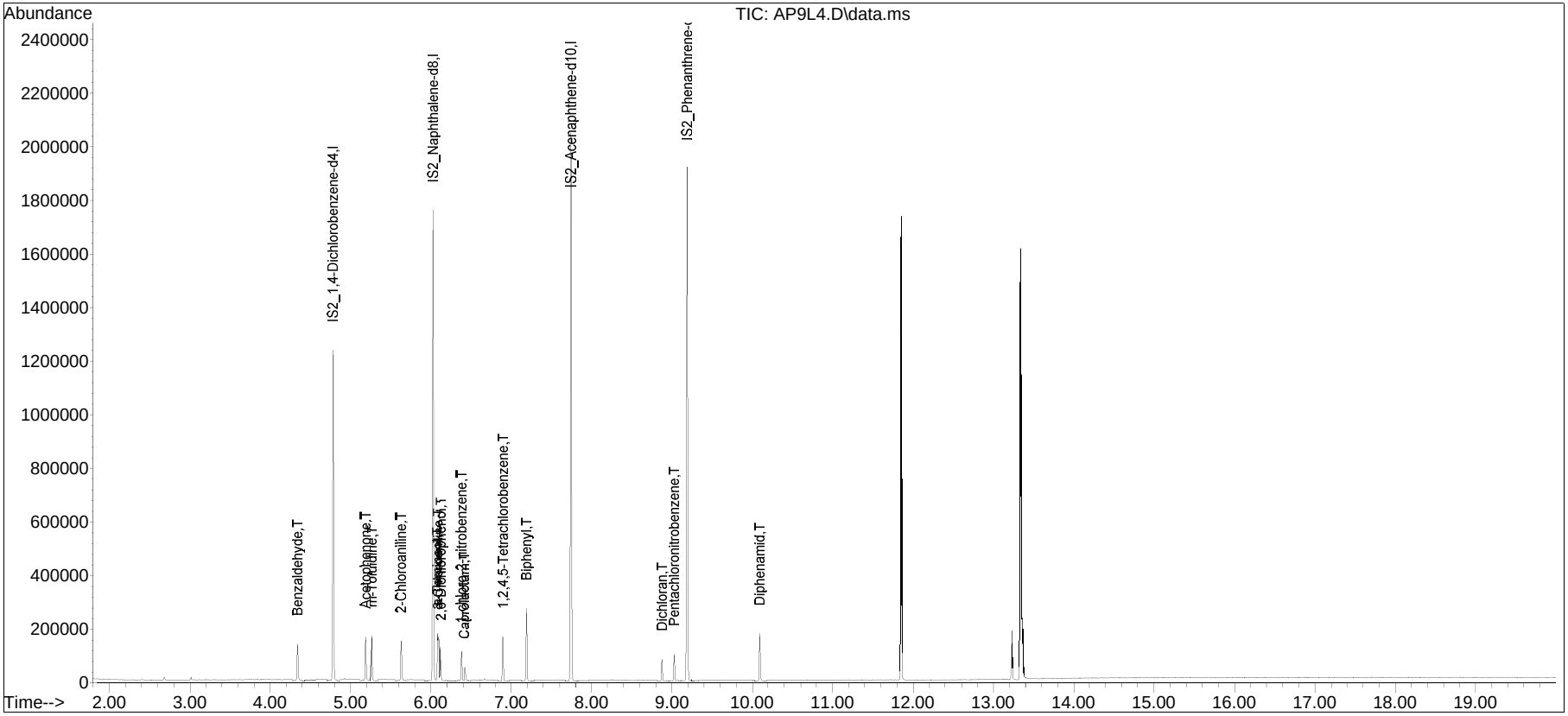
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181205ical\
Data File : AP9L4.D
Acq On : 06 Dec 2018 03:05 am
Operator : sv112:cb
Sample : IL17,32,,AP9L5 Lot#7803
Misc : WG1186464,,
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Dec 06 15:14:46 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 15:14:37 2018
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L7.D•



Manual Integration Report

Data Path	: I:\8270\SV112\181205ical\	QMethod	: FS181205SV112.m
Data File	: AP9L4.D	Operator	: sv112:cb
Date Inj'd	: 12/6/2018 3:05 am	Instrument	: SV112
Sample	: IL17,32,,AP9L5 Lot#7803	Quant Date	: 12/6/2018 3:14 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181205ical\
Data File : AP9L3.D
Acq On : 06 Dec 2018 03:31 am
Operator : sv112:cb
Sample : IL18,32,,AP9L3 Lot#7802
Misc : WG1186464,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 06 14:09:34 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 13:52:45 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\181205ical\AP9L7.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.783	152	158283	40.000	ug/ml	0.00
Standard Area 1 = 171382			Recovery =	92.36%		
54) IS2_Naphthalene-d8	6.026	136	638487	40.000	ug/ml	0.00
Standard Area 1 = 698941			Recovery =	91.35%		
82) IS2_Acenaphthene-d10	7.742	164	306749	40.000	ug/ml	0.00
Standard Area 1 = 344549			Recovery =	89.03%		
97) IS2_Phenanthrene-d10	9.184	188	534226	40.000	ug/ml	0.00
Standard Area 1 = 605264			Recovery =	88.26%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.348	105	13739	2.941	ug/ml	97
29) Acetophenone	5.184	105	22771	2.877	ug/ml	97
30) m-Toluidine	5.265	106	21438	2.746	ug/ml	100
31) 2-Chloroaniline	5.628	127	20282	2.866	ug/ml	98
55) a-Terpineol	6.079	59	11551	2.765	ug/ml	87
56) 3-Chloroaniline	6.095	65	6516	3.063	ug/ml	98
57) 2,6-Dichlorophenol	6.123	162	10987	2.592	ug/ml	94
58) 1-chloro-2-nitrobenzene	6.378	111	5691	2.667	ug/ml	94
59) Caprolactam	6.418	55	4576	1.997	ug/ml	99
60) 1,2,4,5-Tetrachloroben...	6.900	216	12802	3.070	ug/ml	100
61) Biphenyl	7.192	154	36446	2.987	ug/ml	97
83) Dichloran	8.877	206	1825	1.655	ug/ml	94
84) Pentachloronitrobenzene	9.026	237	2213	1.994	ug/ml	98
98) Diphenamid	10.095	167	15180	2.162	ug/ml	97

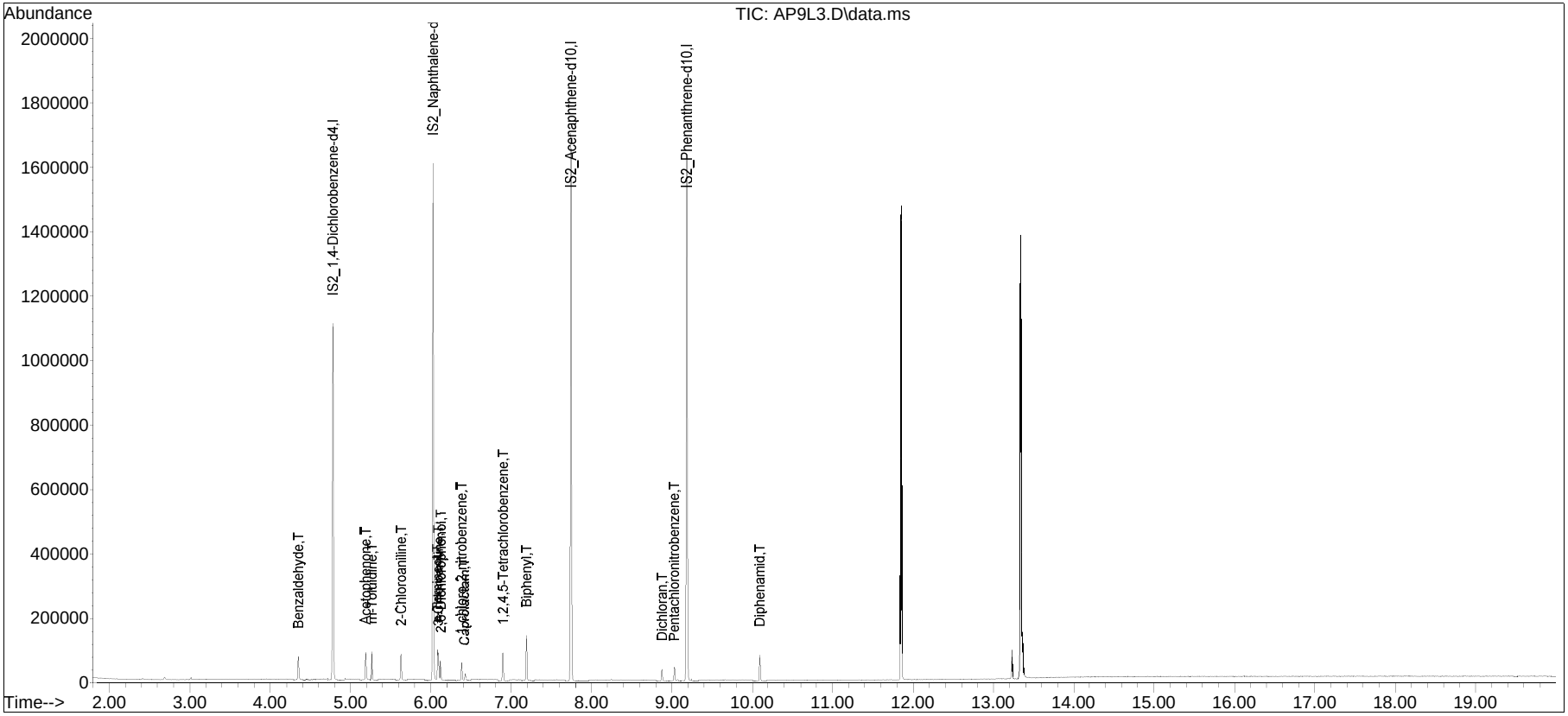
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181205ical\
Data File : AP9L3.D
Acq On : 06 Dec 2018 03:31 am
Operator : sv112:cb
Sample : IL18,32,,AP9L3 Lot#7802
Misc : WG1186464,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 06 14:09:34 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 13:52:45 2018
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L7.D•



Manual Integration Report

Data Path	: I:\8270\SV112\181205ical\	QMethod	: FS181205SV112.m
Data File	: AP9L3.D	Operator	: sv112:cb
Date Inj'd	: 12/6/2018 3:31 am	Instrument	: SV112
Sample	: IL18,32,,AP9L3 Lot#7802	Quant Date	: 12/6/2018 1:55 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181205ical\
Data File : AP9L2.D
Acq On : 06 Dec 2018 03:56 am
Operator : sv112:cb
Sample : IL19,32,,AP9L2 Lot#7801
Misc : WG1186464,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Dec 06 14:08:41 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 13:52:45 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\181205ical\AP9L7.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.780	152	166601	40.000	ug/ml	0.00
Standard Area 1 = 171382			Recovery =	97.21%		
54) IS2_Naphthalene-d8	6.026	136	687257	40.000	ug/ml	0.00
Standard Area 1 = 698941			Recovery =	98.33%		
82) IS2_Acenaphthene-d10	7.742	164	338705	40.000	ug/ml	0.00
Standard Area 1 = 344549			Recovery =	98.30%		
97) IS2_Phenanthrene-d10	9.184	188	592914	40.000	ug/ml	0.00
Standard Area 1 = 605264			Recovery =	97.96%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.348	105	10054	2.045	ug/ml	100
29) Acetophenone	5.184	105	16868	2.025	ug/ml	99
30) m-Toluidine	5.265	106	15269	1.858	ug/ml	98
31) 2-Chloroaniline	5.625	127	14482	1.944	ug/ml	99
55) a-Terpineol	6.079	59	8450	1.879	ug/ml	92
56) 3-Chloroaniline	6.095	65	4423	1.932	ug/ml	91
57) 2,6-Dichlorophenol	6.123	162	7792	1.708	ug/ml	93
58) 1-chloro-2-nitrobenzene	6.377	111	4127	1.797	ug/ml	98
59) Caprolactam	6.421	55	2686	1.089	ug/ml	97
60) 1,2,4,5-Tetrachloroben...	6.897	216	9938	2.214	ug/ml	98
61) Biphenyl	7.192	154	28239	2.150	ug/ml	98
83) Dichloran	8.876	206	1192	0.979	ug/ml	92
84) Pentachloronitrobenzene	9.029	237	1535	1.253	ug/ml	96
98) Diphenamid	10.095	167	10552	1.354	ug/ml	97

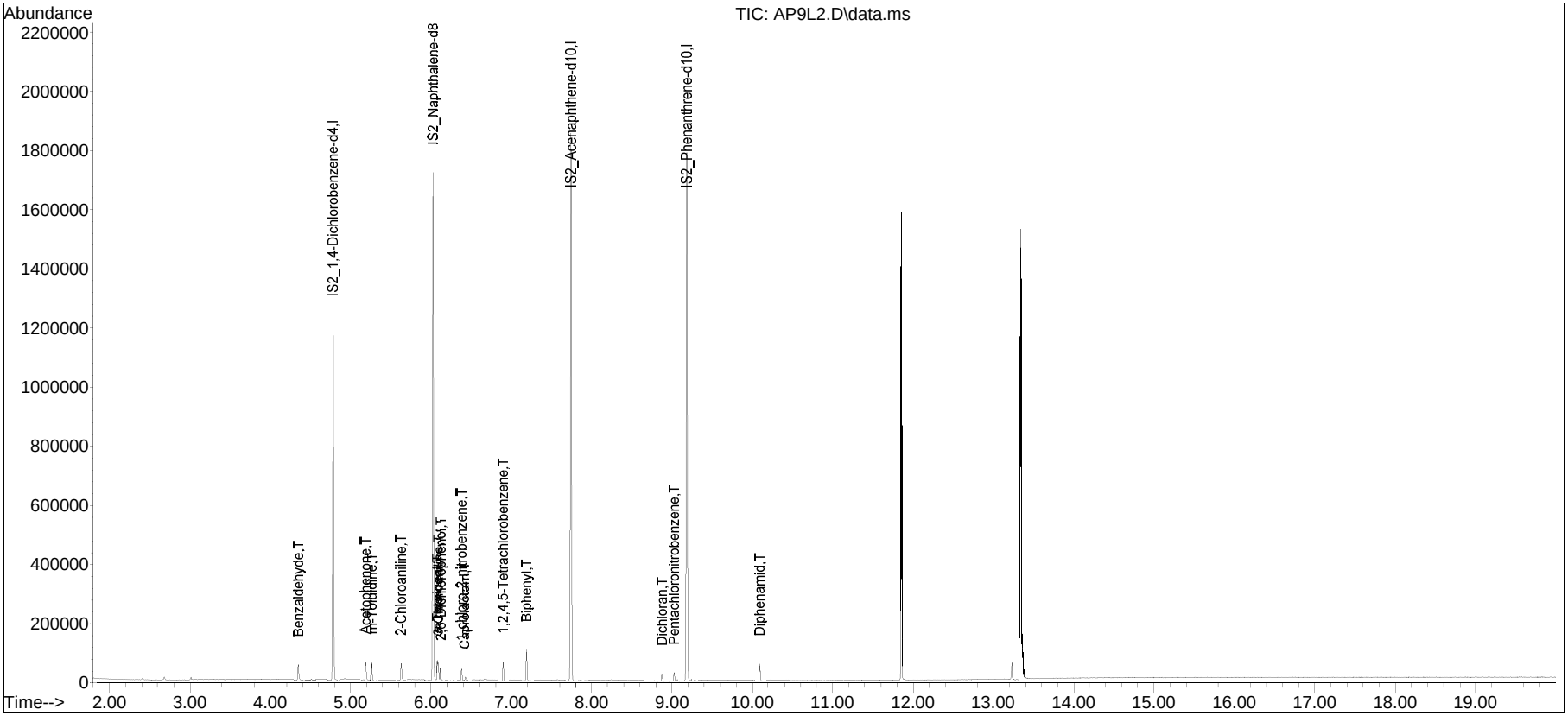
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181205ical\
Data File : AP9L2.D
Acq On : 06 Dec 2018 03:56 am
Operator : sv112:cb
Sample : IL19,32,,AP9L2 Lot#7801
Misc : WG1186464,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Dec 06 14:08:41 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 13:52:45 2018
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L7.D•



Manual Integration Report

Data Path	: I:\8270\SV112\181205ical\	QMethod	: FS181205SV112.m
Data File	: AP9L2.D	Operator	: sv112:cb
Date Inj'd	: 12/6/2018 3:56 am	Instrument	: SV112
Sample	: IL19,32,,AP9L2 Lot#7801	Quant Date	: 12/6/2018 1:55 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181205ical\
Data File : AP9L1.D
Acq On : 06 Dec 2018 04:21 am
Operator : sv112:cb
Sample : IL20,32,,AP9L1 Lot#7800
Misc : WG1186464,,
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 06 14:07:15 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 13:52:45 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\181205ical\AP9L7.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.783	152	160706	40.000	ug/ml	0.00
Standard Area 1 = 171382			Recovery =	93.77%		
54) IS2_Naphthalene-d8	6.026	136	658364	40.000	ug/ml	0.00
Standard Area 1 = 698941			Recovery =	94.19%		
82) IS2_Acenaphthene-d10	7.742	164	326072	40.000	ug/ml	0.00
Standard Area 1 = 344549			Recovery =	94.64%		
97) IS2_Phenanthrene-d10	9.184	188	572601	40.000	ug/ml	0.00
Standard Area 1 = 605264			Recovery =	94.60%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.351	105	4845	1.022	ug/ml	97
29) Acetophenone	5.187	105	8093	1.007	ug/ml	96
30) m-Toluidine	5.265	106	7065	0.891	ug/ml	98
31) 2-Chloroaniline	5.629	127	6902	0.961	ug/ml	98
55) a-Terpineol	6.079	59	3975	0.923	ug/ml	90
56) 3-Chloroaniline	6.095	65	2195	1.001	ug/ml	97
57) 2,6-Dichlorophenol	6.120	162	3422	0.783	ug/ml	97
58) 1-chloro-2-nitrobenzene	6.378	111	1948	0.885	ug/ml	96
59) Caprolactam	0.000		0	N.D.		
60) 1,2,4,5-Tetrachloroben...	6.900	216	4739	1.102	ug/ml	97
61) Biphenyl	7.192	154	13385	1.064	ug/ml	98
83) Dichloran	8.873	206	512M2	0.437	ug/ml	
84) Pentachloronitrobenzene	9.026	237	650M2	0.551	ug/ml	
98) Diphenamid	10.095	167	4901	0.651	ug/ml	99

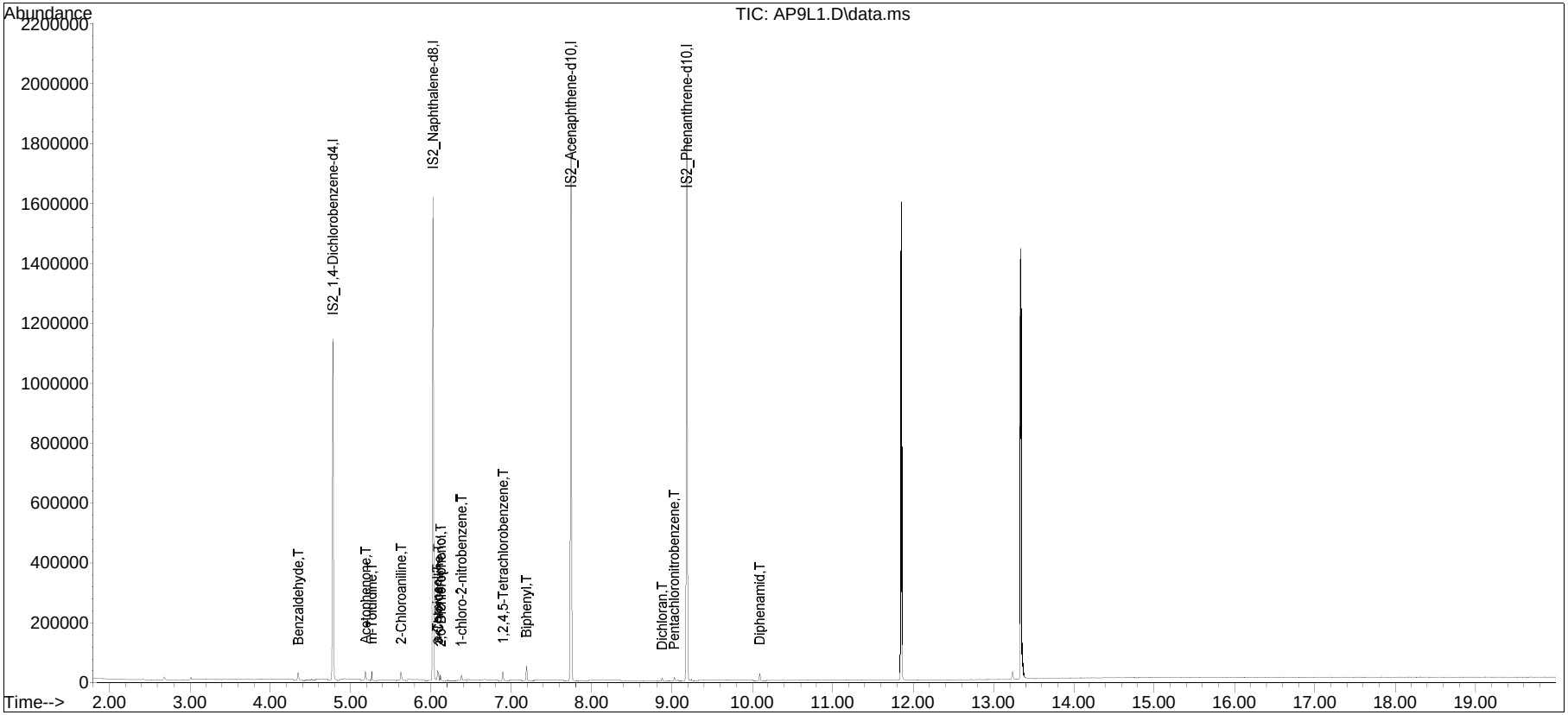
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181205ical\
Data File : AP9L1.D
Acq On : 06 Dec 2018 04:21 am
Operator : sv112:cb
Sample : IL20,32,,AP9L1 Lot#7800
Misc : WG1186464,,
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 06 14:07:15 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 13:52:45 2018
Response via : Initial Calibration

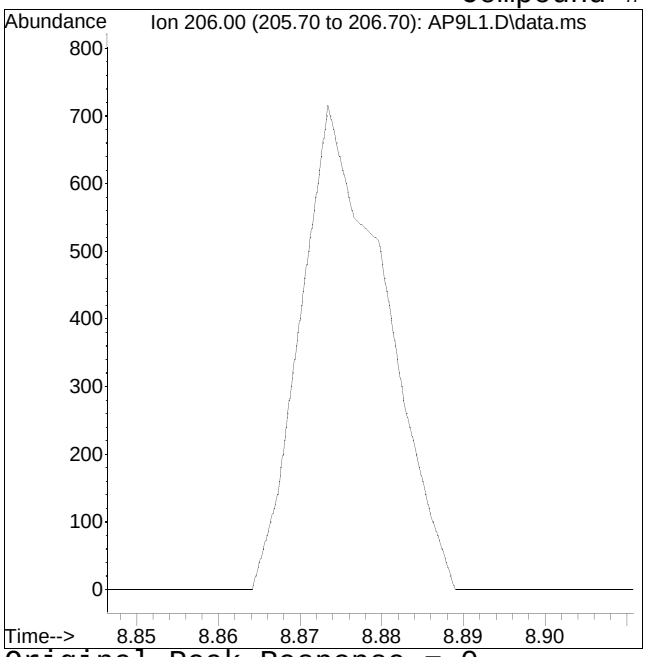
Sub List : AP9ical - AP9 ical sublistal\AP9L7.D•



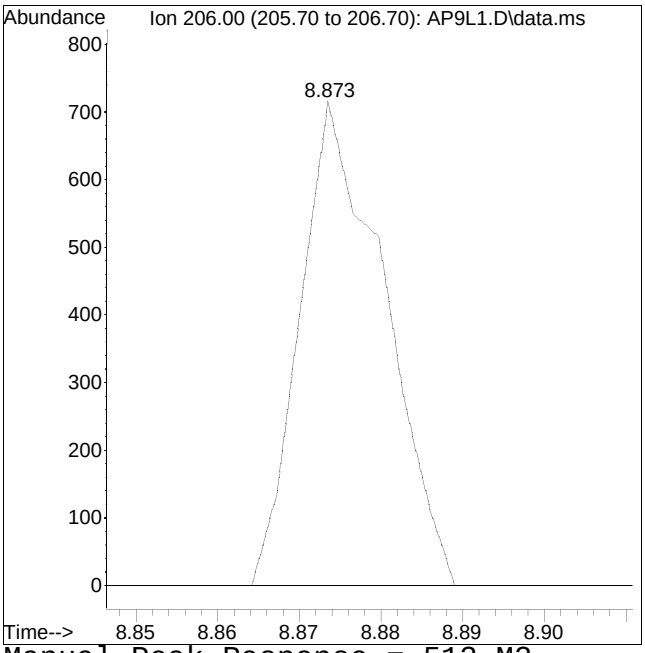
Manual Integration Report

Data Path : I:\8270\SV112\181205ical\ QMethod : FS181205SV112.m
Data File : AP9L1.D Operator : sv112:cb
Date Inj'd : 12/6/2018 4:21 am Instrument : SV112
Sample : IL20,32,,AP9L1 Lot#7800 Quant Date : 12/6/2018 1:55 pm

Compound #83: Dichloran



Original Peak Response = 0



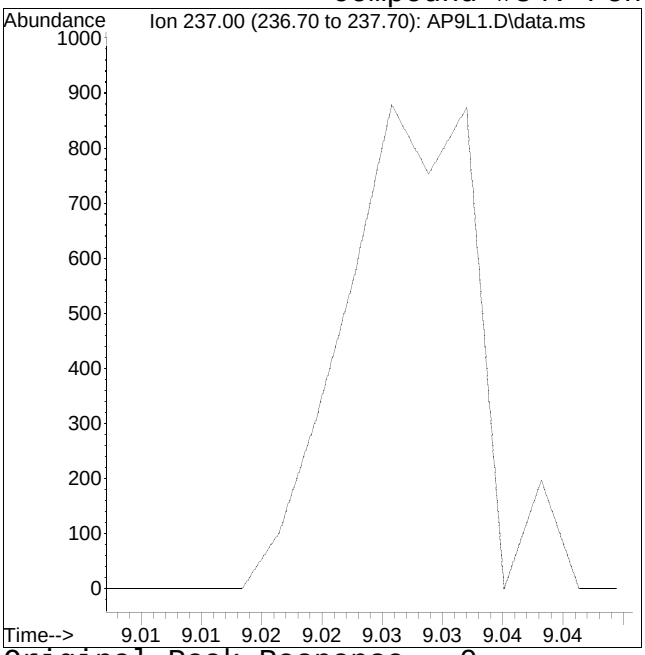
Manual Peak Response = 512 M2

M2 = Peak not found by automatic integration algorithm.

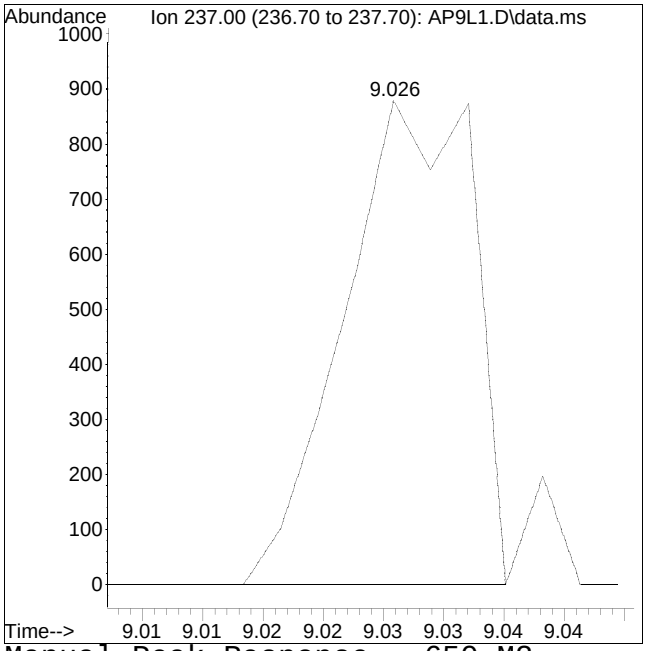
Manual Integration Report

Data Path : I:\8270\SV112\181205ical\ QMethod : FS181205SV112.m
Data File : AP9L1.D Operator : sv112:cb
Date Inj'd : 12/6/2018 4:21 am Instrument : SV112
Sample : IL20,32,,AP9L1 Lot#7800 Quant Date : 12/6/2018 1:55 pm

Compound #84: Pentachloronitrobenzene



Original Peak Response = 0



Manual Peak Response = 650 M2

M2 = Peak not found by automatic integration algorithm.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV112\181205ical\
Data File : ABNICV.D
Acq On : 06 Dec 2018 04:46 am
Operator : sv112:cb
Sample : CQICV1,32,,ABN ICV LOT# Lot#7787
Misc : WG1186464,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 06 13:31:28 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 13:31:21 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	IS1_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	96	0.00
2	t	n-Nitrosodimethylamine		0.931	0.864	7.2	89	0.00
3	t	Pyridine		1.597	1.533	4.0	91	0.00
4	S	2-Fluorophenol		1.406	1.321	6.0	90	0.00
5	T	Aniline		2.267	2.136	5.8	90	0.00
6	t	2-Chlorophenol		1.497	1.424	4.9	90	0.00
7	S	Phenol-d6		1.707	1.588	7.0	89	0.00
8	T	Phenol		1.987	1.871	5.8	90	0.00
9	T	Bis(2-chloroethyl)ether		1.434	1.312	8.5	91	0.00
10	T	1,3-Dichlorobenzene		1.640	1.567	4.5	94	0.00
11	T	1,4-Dichlorobenzene		1.671	1.572	5.9	92	0.00
12	T	1,2-Dichlorobenzene		1.599	1.517	5.1	94	0.00
13	t	Benzyl alcohol		1.137	1.078	5.2	88	0.00
14	T	Bis(2-chloroisopropyl)ether		2.014	1.832	9.0	90	0.00
15	T	2-Methylphenol		1.334	1.279	4.1	91	0.00
16	T	Hexachloroethane		0.620	0.586	5.5	92	0.00
17	T	n-Nitrosodi-n-propylamine		1.005	0.919	8.6	87	0.00
18	T	3-Methylphenol/4-Methylphen		1.399	1.346	3.8	90	0.00
19	S	Nitrobenzene-d5		1.487	1.357	8.7	87	0.00
20	T	Nitrobenzene		1.521	1.412	7.2	88	0.00
21	T	Isophorone		2.675	2.520	5.8	88	0.00
22	T	2-Nitrophenol		0.726	0.648	10.7	84	0.00
23	T	2,4-Dimethylphenol		1.404	1.352	3.7	91	0.00
24	T	Bis(2-chloroethoxy)methane		1.781	1.675	6.0	91	0.00
25	T	2,4-Dichlorophenol		1.165	1.125	3.4	91	0.00
26	T	1,2,4-Trichlorobenzene		1.279	1.190	7.0	91	0.00
34	I	IS1_Naphthalene-d8		1.000	1.000	0.0	95	0.00
35	T	Naphthalene		1.082	1.010	6.7	91	0.00
36	T	Benzoic Acid	*	50.000	39.400	21.2	71	0.00
37	T	4-Chloroaniline		0.130	0.119	8.5	87	0.00
38	T	Hexachlorobutadiene		0.162	0.154	4.9	93	0.00
39	T	p-Chloro-m-cresol		0.297	0.280	5.7	88	0.00
40	T	2-Methylnaphthalene		0.703	0.671	4.6	92	0.00
41	T	1-Methylnaphthalene		0.240	0.221	7.9	90	0.00
42	T	Hexachlorocyclopentadiene		0.185	0.161	13.0	82	0.00
43	T	2,4,6-Trichlorophenol		0.185	0.177	4.3	85	0.00
44	T	2,4,5-Trichlorophenol		0.202	0.193	4.5	89	0.00
45	S	2-Fluorobiphenyl		0.731	0.698	4.5	92	0.00

Data Path : I:\8270\SV112\181205ical\
Data File : ABNICV.D
Acq On : 06 Dec 2018 04:46 am
Operator : sv112:cb
Sample : CQICV1,32,,ABN ICV LOT# Lot#7787
Misc : WG1186464,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 06 13:31:28 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 13:31:21 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
46	T	2-Chloronaphthalene		0.629	0.596	5.2	90	0.00
47	T	2-Nitroaniline		0.211	0.196	7.1	85	0.00
48	T	1,4-Dinitrobenzene		0.093	0.081	12.9	82	0.00
49	T	1,3-Dinitrobenzene		0.102	0.098	3.9	87	0.00
50	T	Dimethyl phthalate		0.721	0.700	2.9	90	0.00
51	T	Acenaphthylene		1.000	0.976	2.4	90	0.00
52	T	2,6-Dinitrotoluene		0.147	0.146	0.7	88	0.00
53	T	1,2-Dinitrobenzene		0.064	0.064	0.0	87	0.00
62	I	IS1_Acenaphthene-d10		1.000	1.000	0.0	94	0.00
63	T	3-Nitroaniline		0.381	0.367	3.7	87	0.00
64	T	Acenaphthene		1.176	1.108	5.8	91	0.00
65	T	2,4-Dinitrophenol	*	50.000	37.986	24.0	70	0.00
66	T	Dibenzofuran		1.791	1.674	6.5	90	0.00
67	T	2,4-Dinitrotoluene		0.381	0.387	-1.6	87	0.00
68	T	4-Nitrophenol		0.288	0.262	9.0	83	0.00
69	T	2,3,5,6-Tetrachlorophenol		0.310	0.290	6.5	86	0.00
70	T	2,3,4,6-Tetrachlorophenol		0.315	0.305	3.2	89	0.00
71	T	Diethyl phthalate		1.474	1.406	4.6	87	0.00
72	T	Fluorene		1.370	1.316	3.9	90	0.00
73	T	4-Chlorophenyl phenyl ether		0.642	0.597	7.0	89	0.00
74	T	4-Nitroaniline		0.375	0.365	2.7	88	0.00
75	T	4,6-Dinitro-o-cresol	*	50.000	40.898	18.2	76	0.00
76	T	NDPA/DPA		1.184	1.139	3.8	89	0.00
77	T	Azobenzene		1.407	1.376	2.2	90	0.00
78	S	2,4,6-Tribromophenol		0.163	0.169	-3.7	90	0.00
79	T	4-Bromophenyl phenyl ether		0.347	0.335	3.5	92	0.00
80	T	Hexachlorobenzene		0.383	0.363	5.2	91	0.00
81	T	Pentachlorophenol	*	50.000	39.043	21.9	77	0.00
87	I	IS1_Phenanthrene-d10		1.000	1.000	0.0	94	0.00
88	T	Phenanthrene		1.195	1.102	7.8	91	0.00
89	T	Anthracene		1.163	1.111	4.5	90	0.00
90	T	Carbazole		1.109	1.072	3.3	90	0.00
91	T	Di-n-butylphthalate		1.282	1.292	-0.8	85	0.00
92	T	Fluoranthene		1.191	1.158	2.8	91	0.00
93	T	Benzidine		0.817	0.793	2.9	85	0.00
94	T	Pyrene		1.259	1.212	3.7	90	0.00
95	S	4-Terphenyl-d14		0.857	0.765	10.7	82	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV112\181205ical\
Data File : ABNICV.D
Acq On : 06 Dec 2018 04:46 am
Operator : sv112:cb
Sample : CQICV1,32,,ABN ICV LOT# Lot#7787
Misc : WG1186464,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 06 13:31:28 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 13:31:21 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
96	T	Butyl benzyl phthalate		0.600	0.554	7.7	82	0.00
103	I	IS1_Chrysene-d12		1.000	1.000	0.0	96	0.00
104	T	Benzo(a)anthracene		1.281	1.238	3.4	93	0.00
105	T	3,3'-Dichlorobenzidine		0.467	0.455	2.6	90	0.00
106	T	Chrysene		1.238	1.145	7.5	93	0.00
107	T	Bis(2-ethylhexyl)phthalate	*	50.000	44.161	11.7	87	0.00
108	T	Di-n-octylphthalate	*	50.000	41.483	17.0	83	0.00
109	T	Benzo(b)fluoranthene		1.139	1.175	-3.2	96	0.00
110	T	Benzo(k)fluoranthene		1.176	1.187	-0.9	94	0.00
111	T	Benzo(a)pyrene		1.110	1.128	-1.6	93	0.00
112	I	IS1_Perylene-d12		1.000	1.000	0.0	99	0.00
113	T	Indeno(1,2,3-cd)pyrene		1.078	1.097	-1.8	96	0.00
114	T	Dibenzo(a,h)anthracene		1.090	1.120	-2.8	96	0.00
115	T	Benzo(ghi)perylene		1.091	1.114	-2.1	98	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181205ical\
Data File : ABNICV.D
Acq On : 06 Dec 2018 04:46 am
Operator : sv112:cb
Sample : CQICV1,32,,ABN ICV LOT# Lot#7787
Misc : WG1186464,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 06 13:31:28 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 13:31:21 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\181205ical\ABNL7.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.783	152	147466	40.000	ug/ml	0.00
Standard Area 1 = 153313			Recovery = 96.19%			
34) IS1_Naphthalene-d8	6.026	136	605290	40.000	ug/ml	0.00
Standard Area 1 = 638567			Recovery = 94.79%			
62) IS1_Acenaphthene-d10	7.742	164	302674	40.000	ug/ml	0.00
Standard Area 1 = 323009			Recovery = 93.70%			
87) IS1_Phenanthrene-d10	9.184	188	532240	40.000	ug/ml	0.00
Standard Area 1 = 563292			Recovery = 94.49%			
103) IS1_Chrysene-d12	11.857	240	500148	40.000	ug/ml	0.00
Standard Area 1 = 518627			Recovery = 96.44%			
112) IS1_Perylene-d12	13.340	264	505923	40.000	ug/ml	0.00
Standard Area 1 = 513574			Recovery = 98.51%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.500	112	243584	46.988	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 93.98%			
7) Phenol-d6	4.451	99	292715	46.526	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 93.05%			
19) Nitrobenzene-d5	5.324	82	250184	45.631	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 182.52%#			
45) 2-Fluorobiphenyl	7.102	172	527972	47.716	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 190.86%#			
78) 2,4,6-Tribromophenol	8.513	330	63929	51.958	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 103.92%			
95) 4-Terphenyl-d14	10.782	244	508775	44.616	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 178.46%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.120	74	159237	46.414	ug/ml	90
3) Pyridine	2.160	79	282565	48.008	ug/ml	87
5) Aniline	4.460	93	393712	47.107	ug/ml#	57
6) 2-Chlorophenol	4.575	128	262563	47.582	ug/ml	96
8) Phenol	4.463	94	344869	47.086	ug/ml#	53
9) Bis(2-chloroethyl)ether	4.541	93	241936	45.772	ug/ml	96
10) 1,3-Dichlorobenzene	4.724	146	288805	47.774	ug/ml	98
11) 1,4-Dichlorobenzene	4.799	146	289695	47.039	ug/ml	97
12) 1,2-Dichlorobenzene	4.945	146	279608	47.429	ug/ml	98
13) Benzyl alcohol	4.929	79	198741	47.412	ug/ml	96
14) Bis(2-chloroisopropyl)...	5.078	45	337700	45.475	ug/ml	94

Data Path : I:\8270\SV112\181205ical\
Data File : ABNICV.D
Acq On : 06 Dec 2018 04:46 am
Operator : sv112:cb
Sample : CQICV1,32,,ABN ICV LOT# Lot#7787
Misc : WG1186464,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 06 13:31:28 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 13:31:21 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\181205ical\ABNL7.D
Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
15) 2-Methylphenol	5.057	108	235821	47.941	ug/ml	99
16) Hexachloroethane	5.277	117	108032	47.228	ug/ml	94
17) n-Nitrosodi-n-propylamine	5.203	70	169404	45.712	ug/ml	99
18) 3-Methylphenol/4-Methy...	5.215	108	248151	48.109	ug/ml	99
20) Nitrobenzene	5.343	77	260288	46.425	ug/ml	99
21) Isophorone	5.588	82	464610	47.113	ug/ml	99
22) 2-Nitrophenol	5.660	139	119438	44.655	ug/ml	95
23) 2,4-Dimethylphenol	5.731	107	249186	48.139	ug/ml	98
24) Bis(2-chloroethoxy)met...	5.821	93	308689	47.006	ug/ml	99
25) 2,4-Dichlorophenol	5.899	162	207284	48.268	ug/ml	98
26) 1,2,4-Trichlorobenzene	5.980	180	219418	46.541	ug/ml	99
35) Naphthalene	6.045	128	764244	46.676	ug/ml	100
36) Benzoic Acid	5.828	105	140132	39.400	ug/ml	95
37) 4-Chloroaniline	6.113	65	89911	45.767	ug/ml	88
38) Hexachlorobutadiene	6.194	225	116305	47.437	ug/ml	98
39) p-Chloro-m-cresol	6.608	107	211931	47.123	ug/ml	97
40) 2-Methylnaphthalene	6.729	142	507661	47.720	ug/ml	98
41) 1-Methylnaphthalene	6.822	115	167018	46.055	ug/ml	95
42) Hexachlorocyclopentadiene	6.900	237	121759	43.542	ug/ml	99
43) 2,4,6-Trichlorophenol	7.015	196	134070	48.008	ug/ml	99
44) 2,4,5-Trichlorophenol	7.046	196	146367	47.939	ug/ml	100
46) 2-Chloronaphthalene	7.201	162	451266	47.376	ug/ml	99
47) 2-Nitroaniline	7.310	138	148273	46.470	ug/ml	94
48) 1,4-Dinitrobenzene	7.444	168	61534	43.765	ug/ml	97
49) 1,3-Dinitrobenzene	7.518	168	73800	48.014	ug/ml	93
50) Dimethyl phthalate	7.512	163	529420	48.523	ug/ml	100
51) Acenaphthylene	7.602	152	738411	48.773	ug/ml	100
52) 2,6-Dinitrotoluene	7.556	165	110590	49.608	ug/ml	95
53) 1,2-Dinitrobenzene	7.599	168	48441	49.924	ug/ml#	1
63) 3-Nitroaniline	7.711	138	138748	48.090	ug/ml	95
64) Acenaphthene	7.773	154	419166	47.101	ug/ml	99
65) 2,4-Dinitrophenol	7.814	184	41101	37.986	ug/ml	97
66) Dibenzofuran	7.944	168	633489	46.734	ug/ml	99
67) 2,4-Dinitrotoluene	7.944	165	146533	50.849	ug/ml	96
68) 4-Nitrophenol	7.894	65	99062	45.442	ug/ml	95
69) 2,3,5,6-Tetrachlorophenol	8.031	232	109531	46.645	ug/ml	99
70) 2,3,4,6-Tetrachlorophenol	8.075	232	115249	48.366	ug/ml	98
71) Diethyl phthalate	8.208	149	532040	47.702	ug/ml	99
72) Fluorene	8.277	166	497831	48.034	ug/ml	100
73) 4-Chlorophenyl phenyl ...	8.295	204	226036	46.527	ug/ml	94

Data Path : I:\8270\SV112\181205ical\
Data File : ABNICV.D
Acq On : 06 Dec 2018 04:46 am
Operator : sv112:cb
Sample : CQICV1,32,,ABN ICV LOT# Lot#7787
Misc : WG1186464,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 06 13:31:28 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 13:31:21 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\181205ical\ABNL7.D
Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74)	4-Nitroaniline	8.305	138	137910	48.586	ug/ml	97
75)	4,6-Dinitro-o-cresol	8.339	198	59009	40.898	ug/ml	93
76)	NDPA/DPA	8.410	169	430989	48.114	ug/ml	99
77)	Azobenzene	8.445	77	520526	48.898	ug/ml	98
79)	4-Bromophenyl phenyl e...	8.768	248	126642	48.284	ug/ml	97
80)	Hexachlorobenzene	8.818	284	137278	47.345	ug/ml	100
81)	Pentachlorophenol	9.013	266	71802	39.043	ug/ml	100
88)	Phenanthrene	9.209	178	732830	46.073	ug/ml	99
89)	Anthracene	9.256	178	738930	47.730	ug/ml	100
90)	Carbazole	9.424	167	713507	48.338	ug/ml	100
91)	Di-n-butylphthalate	9.812	149	859428	50.376	ug/ml	100
92)	Fluoranthene	10.372	202	770694	48.643	ug/ml	100
93)	Benzidine	10.524	184	527550	48.503	ug/ml	99
94)	Pyrene	10.592	202	806011	48.101	ug/ml	99
96)	Butyl benzyl phthalate	11.317	149	368462	46.180	ug/ml	98
104)	Benzo(a)anthracene	11.845	228	773813	48.313	ug/ml	99
105)	3,3'-Dichlorobenzidine	11.842	252	284561	48.715	ug/ml	99
106)	Chrysene	11.882	228	715891	46.238	ug/ml	100
107)	Bis(2-ethylhexyl)phtha...	11.960	149	571484	44.161	ug/ml	98
108)	Di-n-octylphthalate	12.650	149	914829	41.483	ug/ml	96
109)	Benzo(b)fluoranthene	12.967	252	734525	51.556	ug/ml	100
110)	Benzo(k)fluoranthene	12.992	252	742363	50.470	ug/ml	99
111)	Benzo(a)pyrene	13.284	252	705355	50.823	ug/ml	99
113)	Indeno(1,2,3-cd)pyrene	14.359	276	693945	50.876	ug/mL	99
114)	Dibenzo(a,h)anthracene	14.387	278	708544	51.379	ug/ml	99
115)	Benzo(ghi)perylene	14.633	276	704519	51.064	ug/ml	94

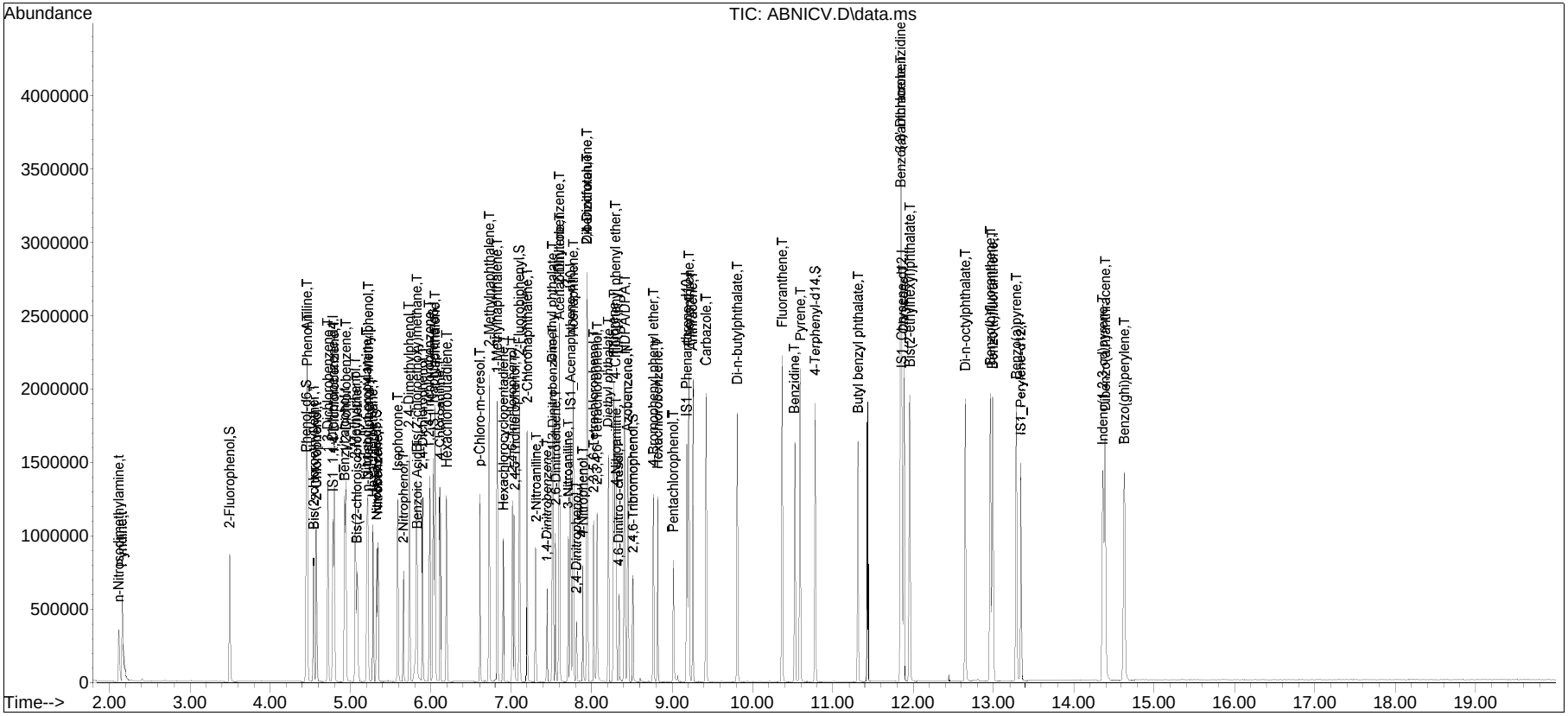
(#) = qualifier out of range (m) = manual integration (+) = signals summed

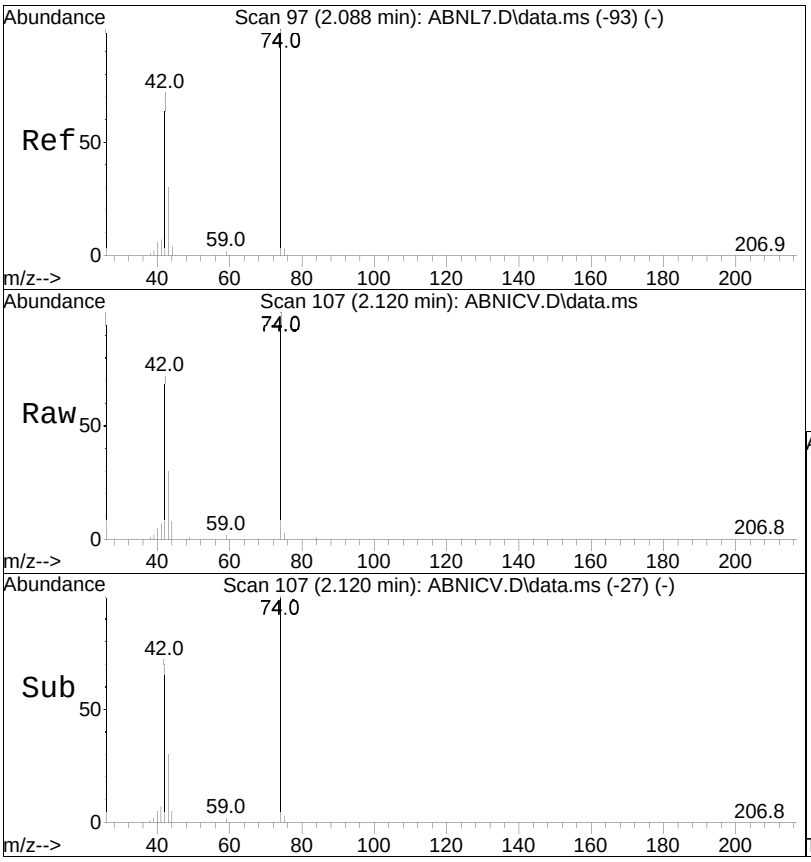
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181205ical\
Data File : ABNICV.D
Acq On : 06 Dec 2018 04:46 am
Operator : sv112:cb
Sample : CQICV1,32,,ABN ICV LOT# Lot#7787
Misc : WG1186464,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 06 13:31:28 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 13:31:21 2018
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublistal\ABNL7.D•

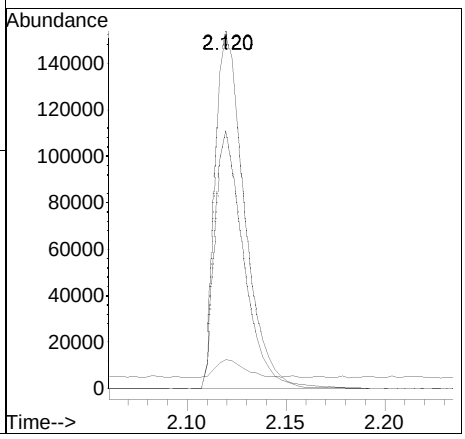


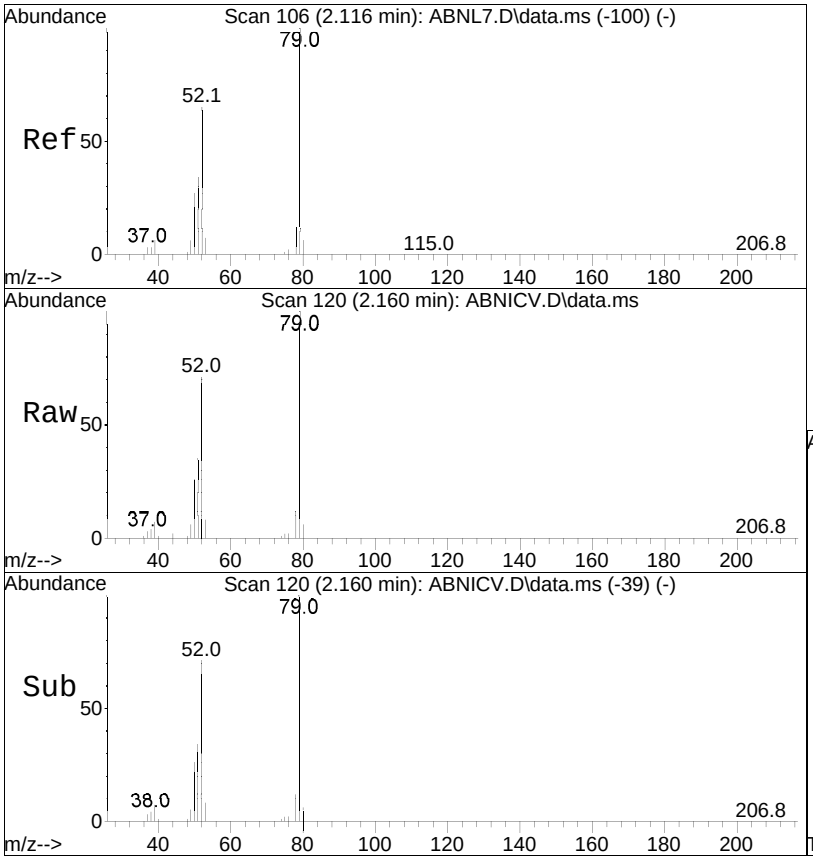


#2
n-Nitrosodimethylamine
Concen: 46.41 ug/ml
RT: 2.120 min Scan# 107
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion: 74 Resp: 159237

Ion	Ratio	Lower	Upper
74	100		
42	70.2	63.8	95.8
44	4.8	4.3	6.5

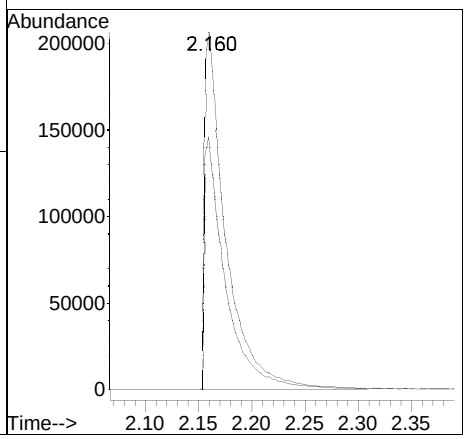


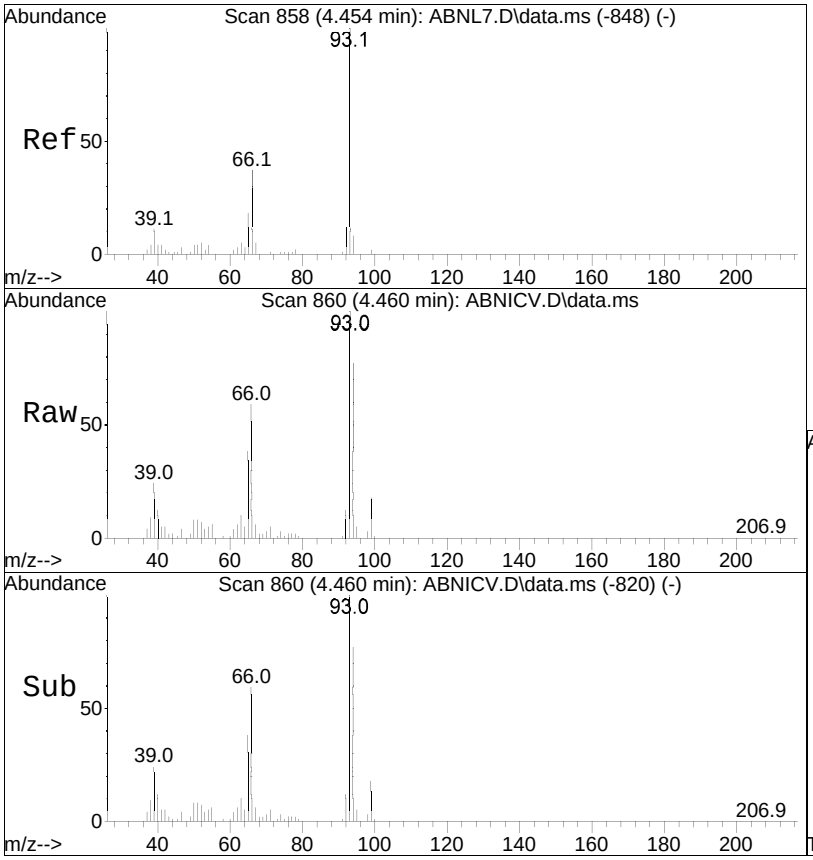


#3
Pyridine
Concen: 48.01 ug/ml
RT: 2.160 min Scan# 120
Delta R.T. 0.003 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion: 79 Resp: 282565

Ion	Ratio	Lower	Upper
79	100		
52	69.0	64.6	96.8

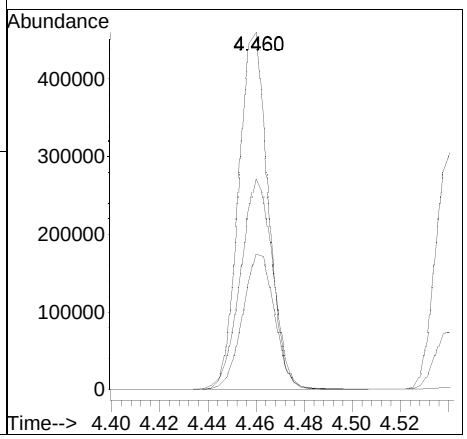


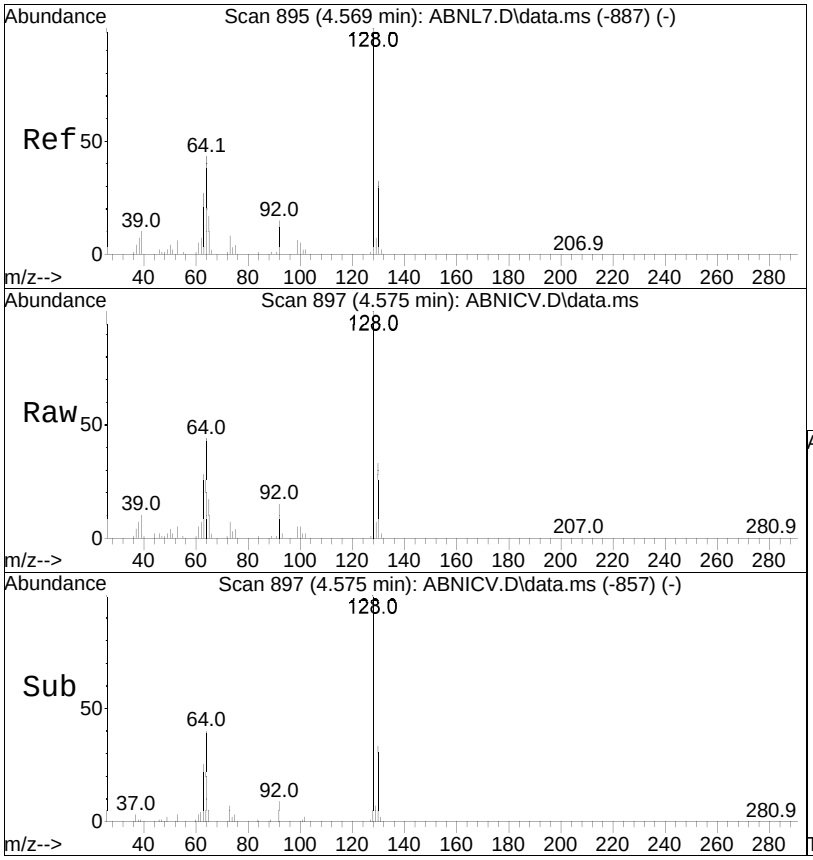


#5
Aniline
Concen: 47.11 ug/ml
RT: 4.460 min Scan# 860
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion: 93 Resp: 393712

Ion	Ratio	Lower	Upper
93	100		
66	65.2	31.3	46.9#
65	41.2	16.6	25.0#

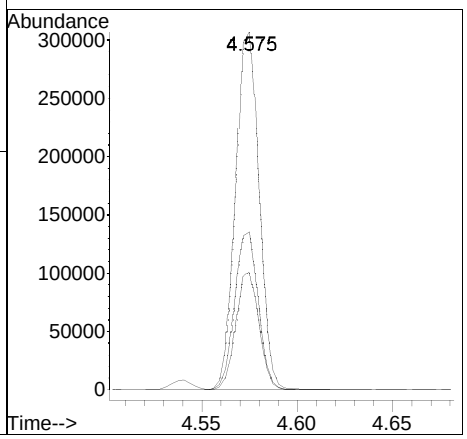


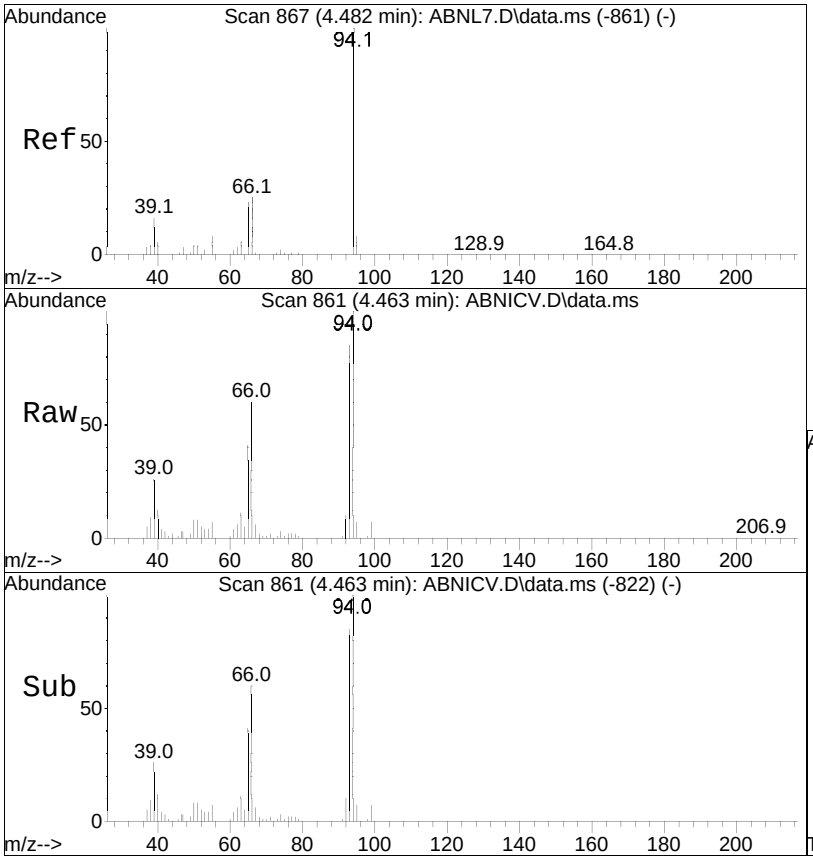


#6
2-Chlorophenol
Concen: 47.58 ug/ml
RT: 4.575 min Scan# 897
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion:128 Resp: 262563

Ion	Ratio	Lower	Upper
128	100		
64	43.8	38.2	57.4
130	32.4	26.2	39.2

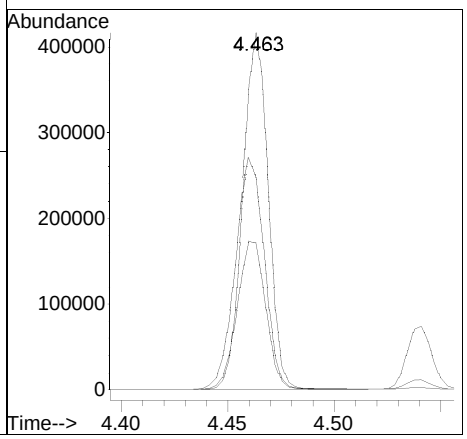


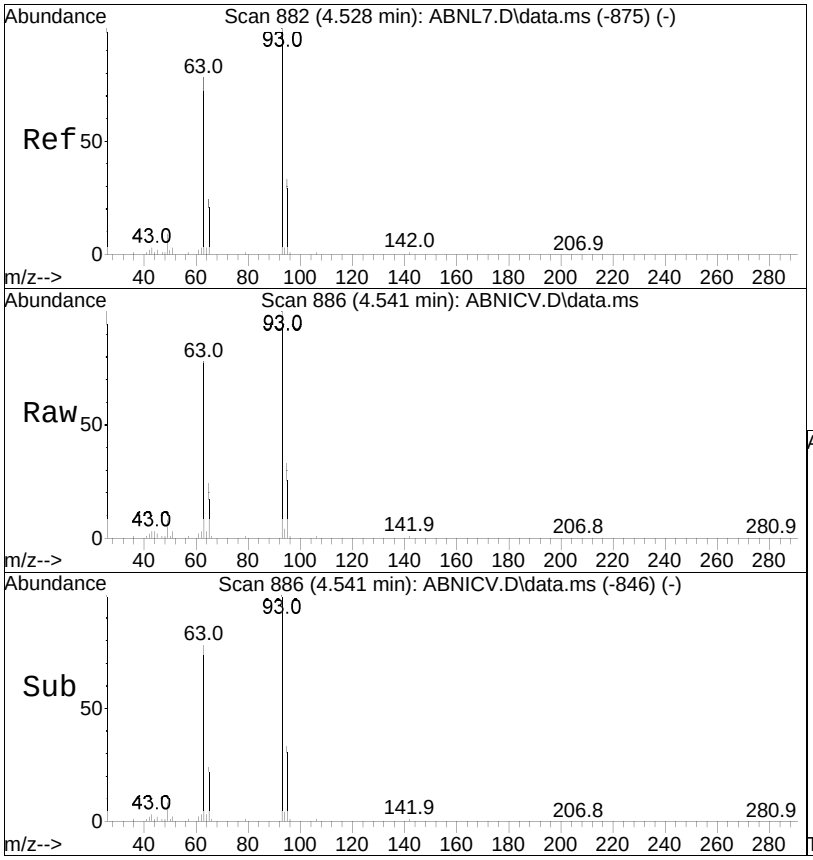


#8
Phenol
Concen: 47.09 ug/ml
RT: 4.463 min Scan# 861
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion: 94 Resp: 344869

Ion	Ratio	Lower	Upper
94	100		
65	47.0	23.0	34.6#
66	74.4	32.1	48.1#

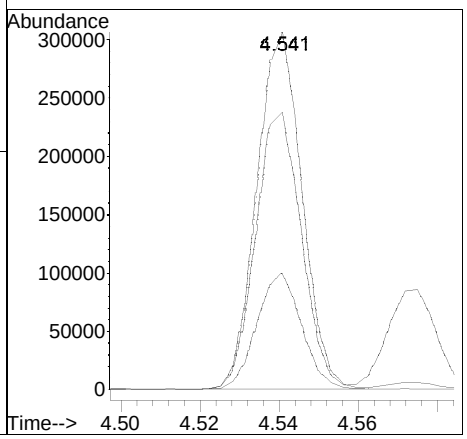


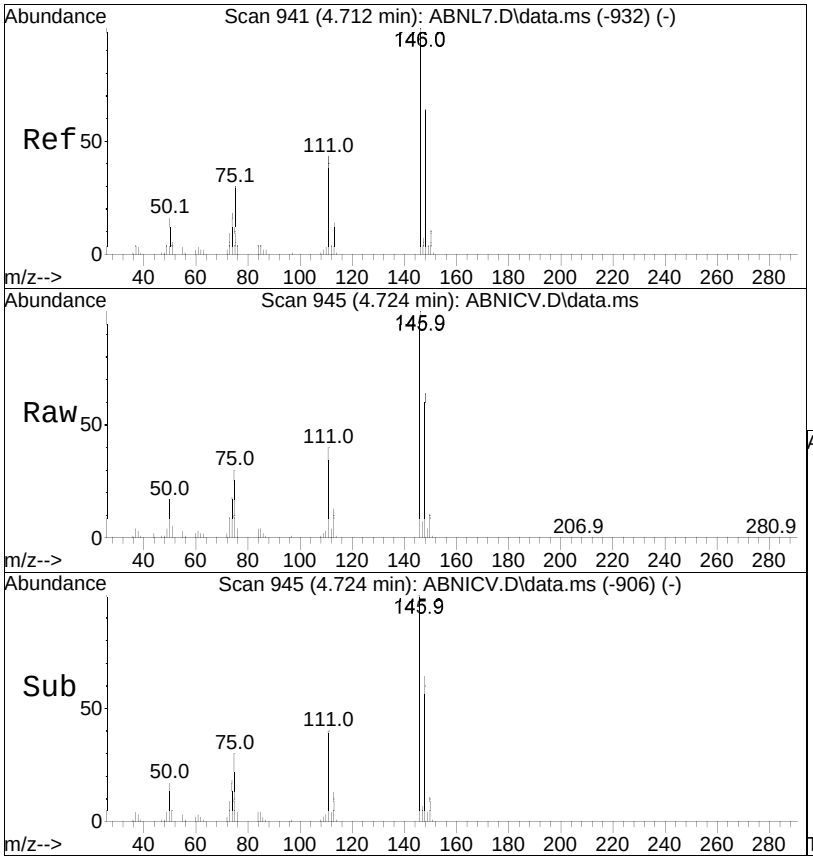


#9
Bis(2-chloroethyl)ether
Concen: 45.77 ug/ml
RT: 4.541 min Scan# 886
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion: 93 Resp: 241936

Ion	Ratio	Lower	Upper
93	100		
63	78.7	67.0	100.4
95	32.5	26.1	39.1

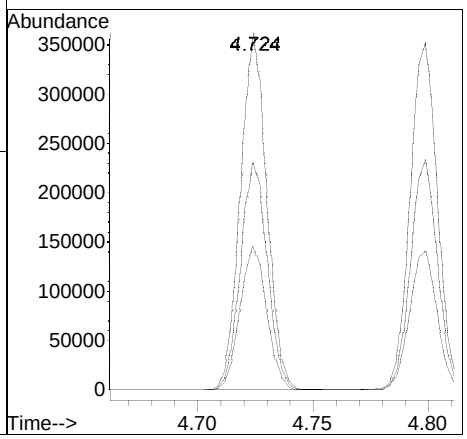


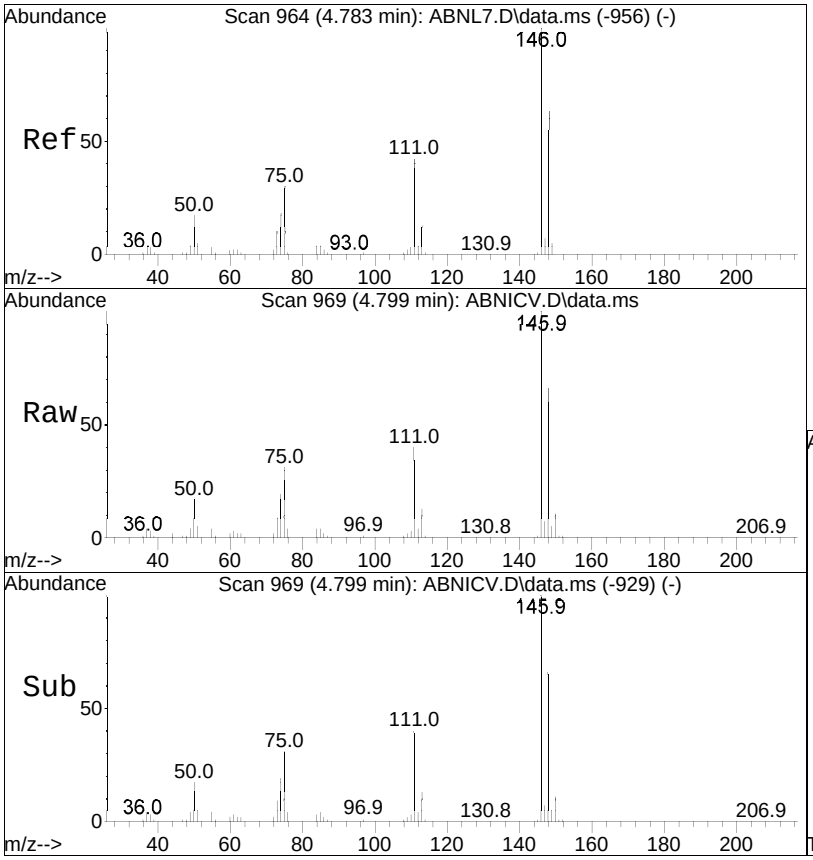


#10
1,3-Dichlorobenzene
Concen: 47.77 ug/ml
RT: 4.724 min Scan# 945
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion:146 Resp: 288805

Ion	Ratio	Lower	Upper
146	100		
111	40.8	35.0	52.4
148	64.7	51.3	76.9

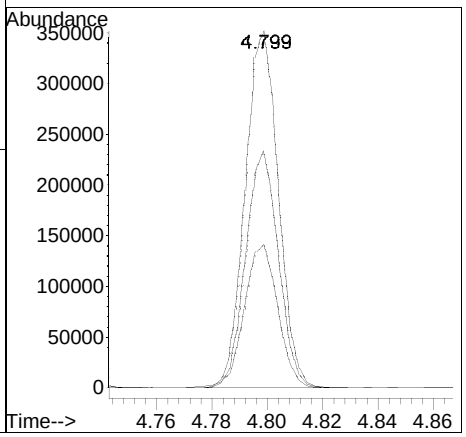


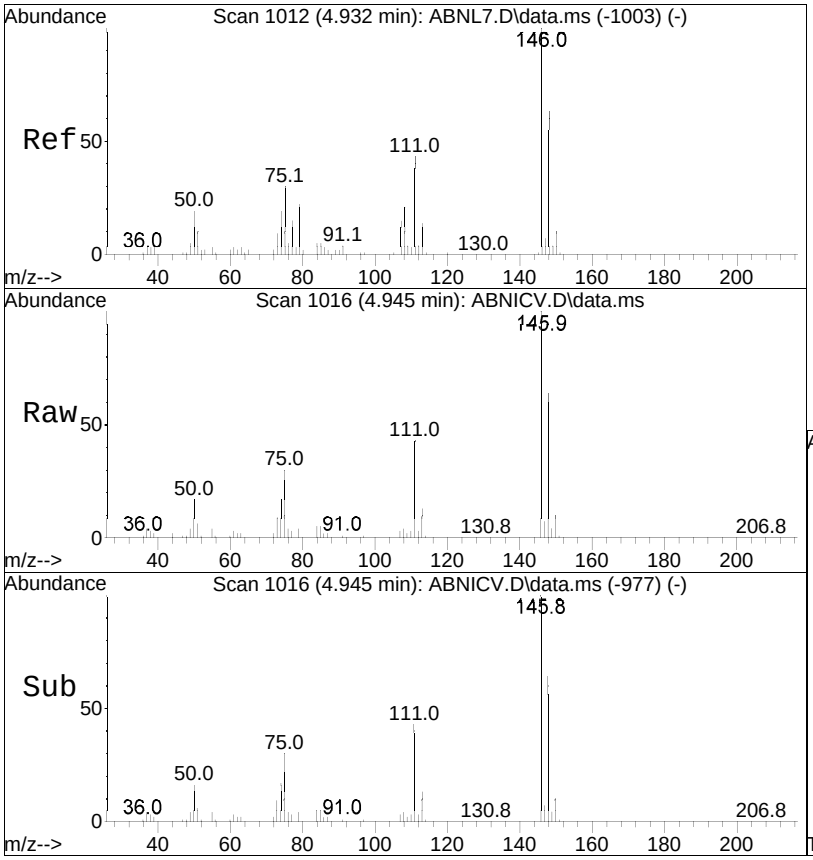


#11
1,4-Dichlorobenzene
Concen: 47.04 ug/ml
RT: 4.799 min Scan# 969
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion:146 Resp: 289695

Ion	Ratio	Lower	Upper
146	100		
148	65.6	51.1	76.7
111	40.8	34.4	51.6

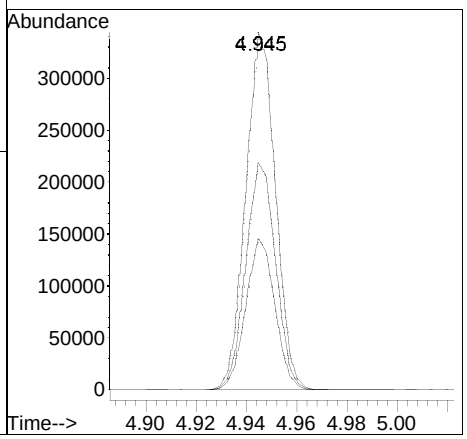


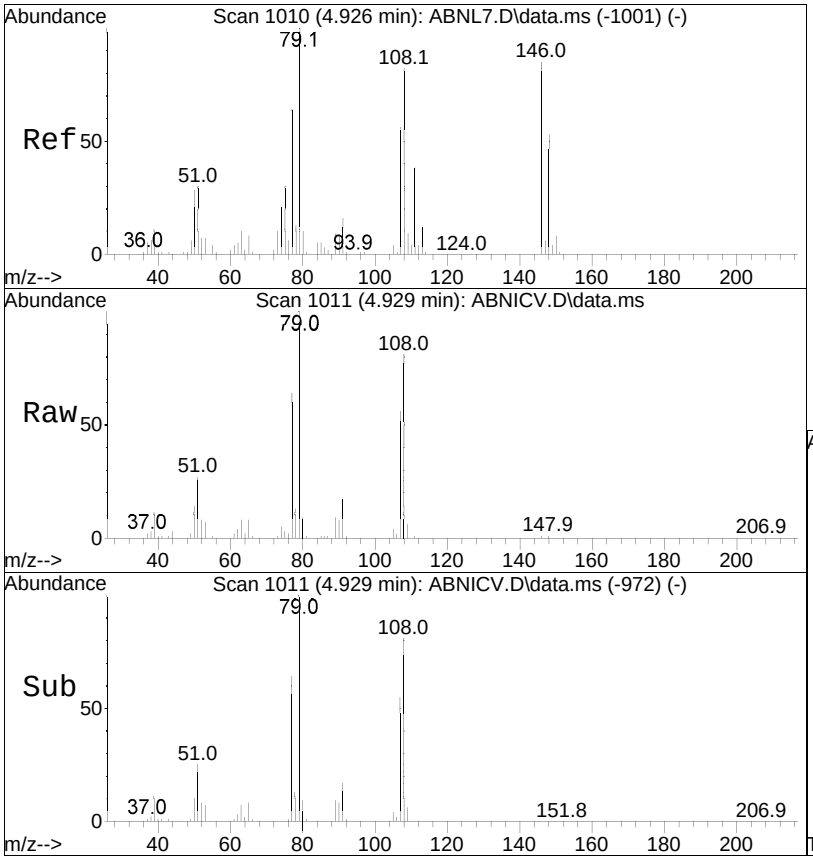


#12
1,2-Dichlorobenzene
Concen: 47.43 ug/ml
RT: 4.945 min Scan# 1016
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion:146 Resp: 279608

Ion	Ratio	Lower	Upper
146	100		
111	41.7	35.5	53.3
148	63.9	50.6	76.0

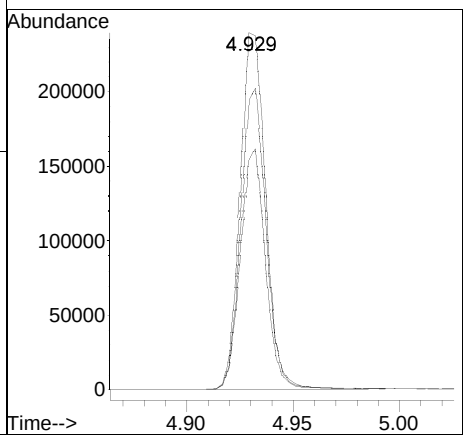


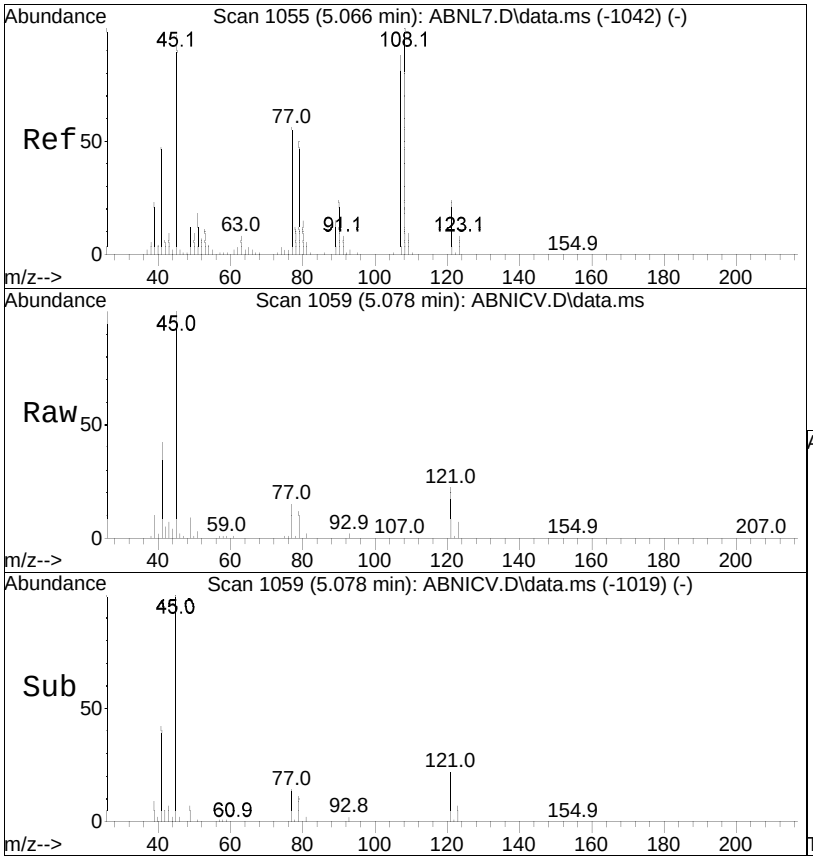


#13
Benzyl alcohol
Concen: 47.41 ug/ml
RT: 4.929 min Scan# 1011
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion: 79 Resp: 198741

Ion	Ratio	Lower	Upper
79	100		
77	66.9	51.8	77.6
108	84.1	63.9	95.9

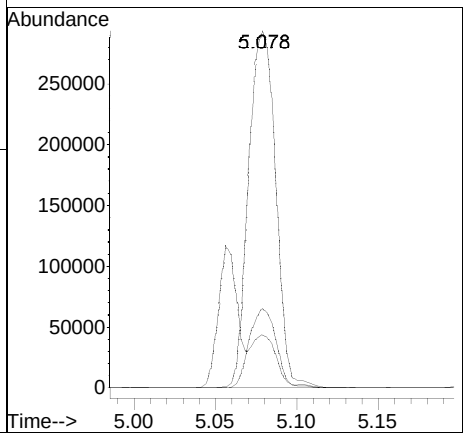


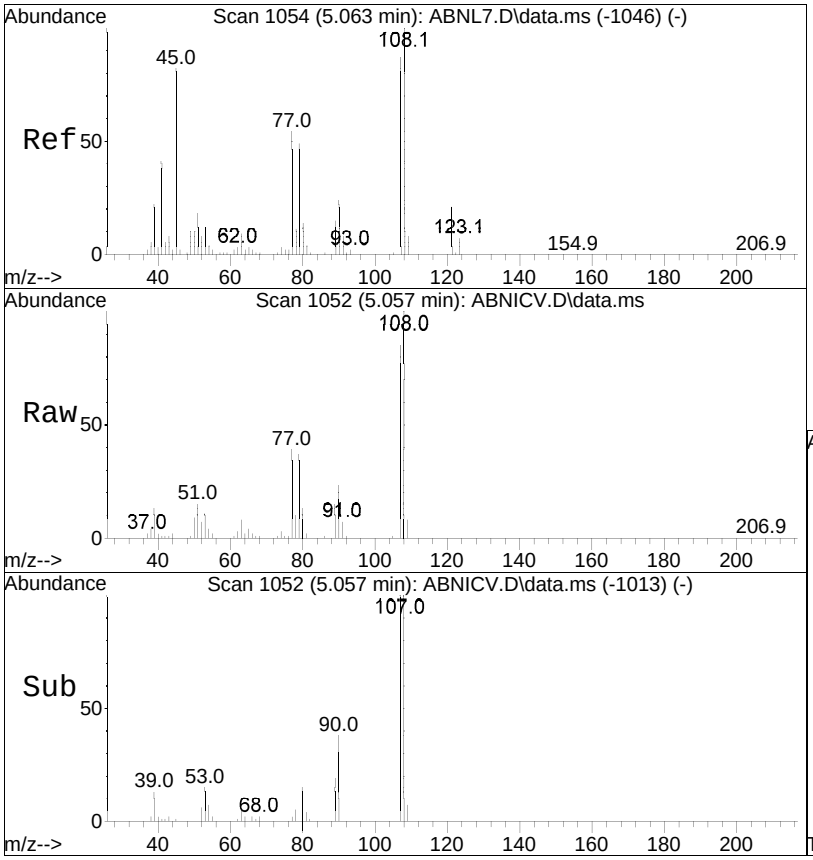


#14
Bis(2-chloroisopropyl)ether
Concen: 45.47 ug/ml
RT: 5.078 min Scan# 1059
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion: 45 Resp: 337700

Ion	Ratio	Lower	Upper
45	100		
121	22.1	14.8	22.2
77	11.9	10.5	15.7

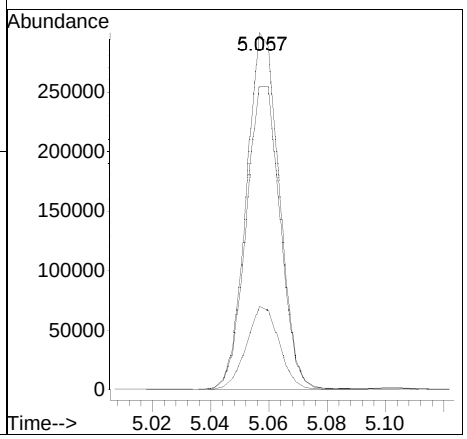


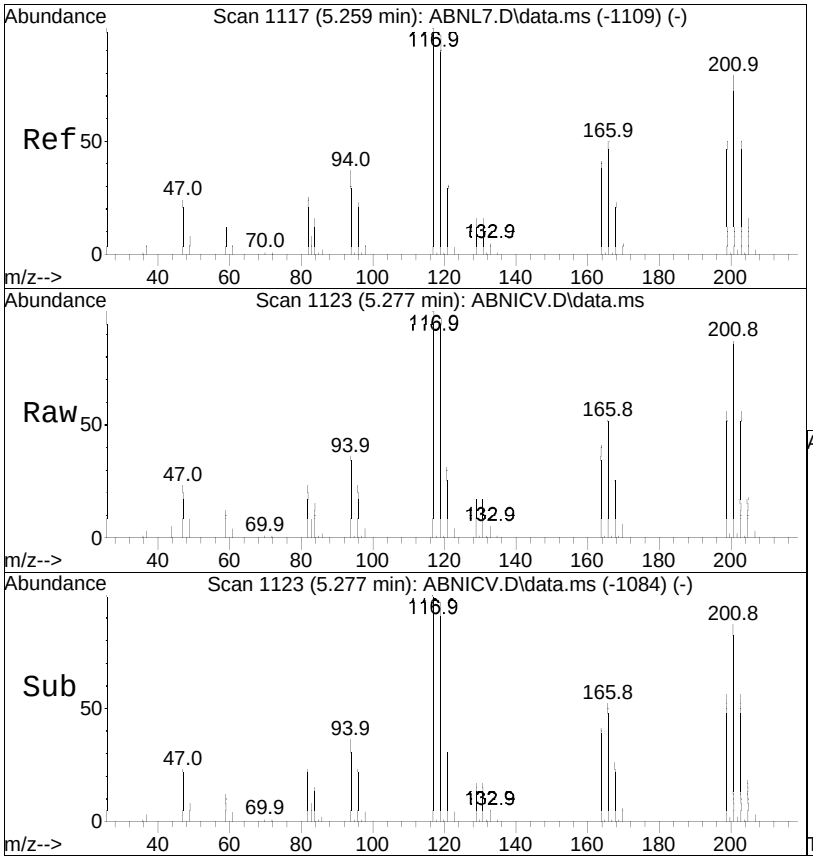


#15
2-Methylphenol
Concen: 47.94 ug/ml
RT: 5.057 min Scan# 1052
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion:108 Resp: 235821

Ion	Ratio	Lower	Upper
108	100		
107	87.7	71.0	106.4
90	23.2	19.7	29.5

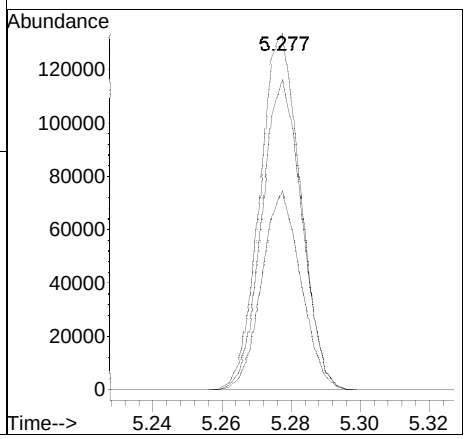


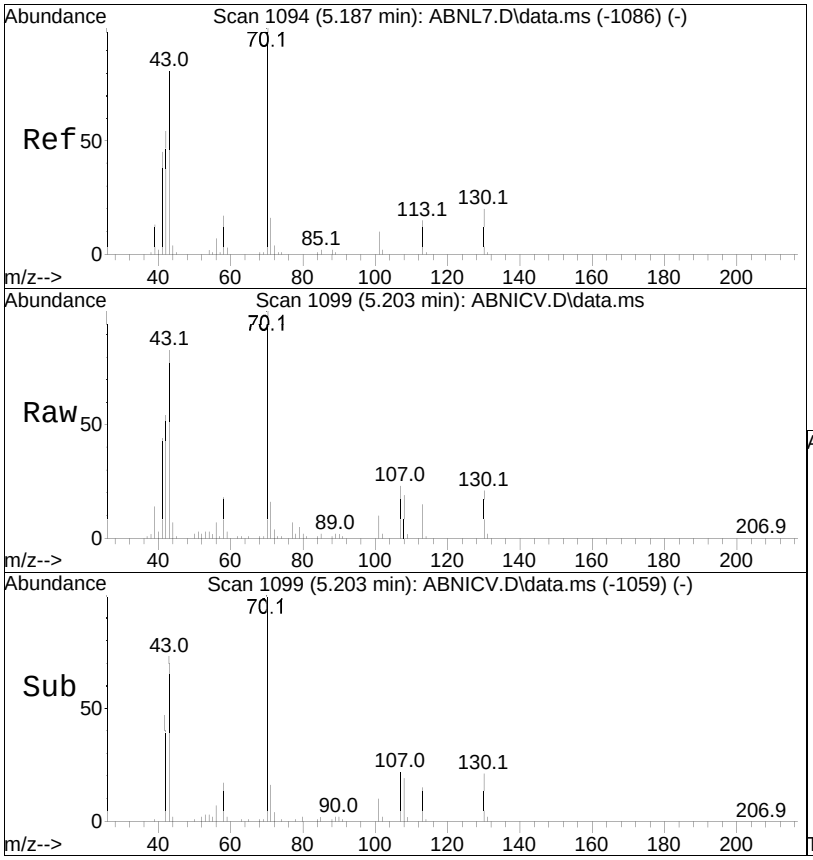


#16
Hexachloroethane
Concen: 47.23 ug/ml
RT: 5.277 min Scan# 1123
Delta R.T. -0.004 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion:117 Resp: 108032

Ion	Ratio	Lower	Upper
117	100		
201	85.9	64.4	96.6
199	53.9	40.5	60.7

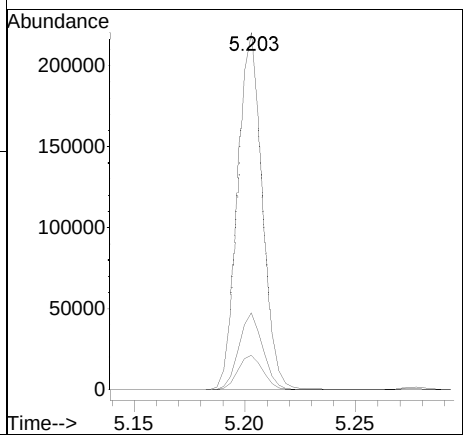


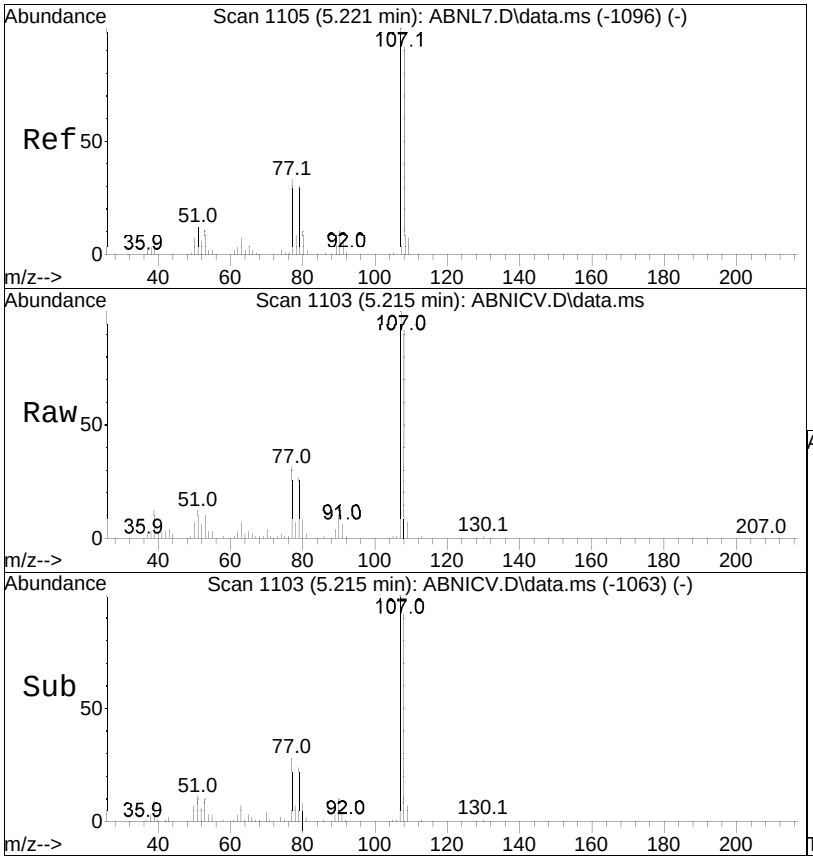


#17
n-Nitrosodi-n-propylamine
Concen: 45.71 ug/ml
RT: 5.203 min Scan# 1099
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion: 70 Resp: 169404

Ion	Ratio	Lower	Upper
70	100		
130	20.9	16.2	24.4
101	9.7	7.6	11.4

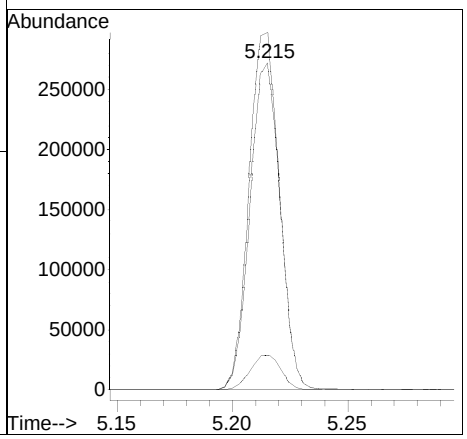


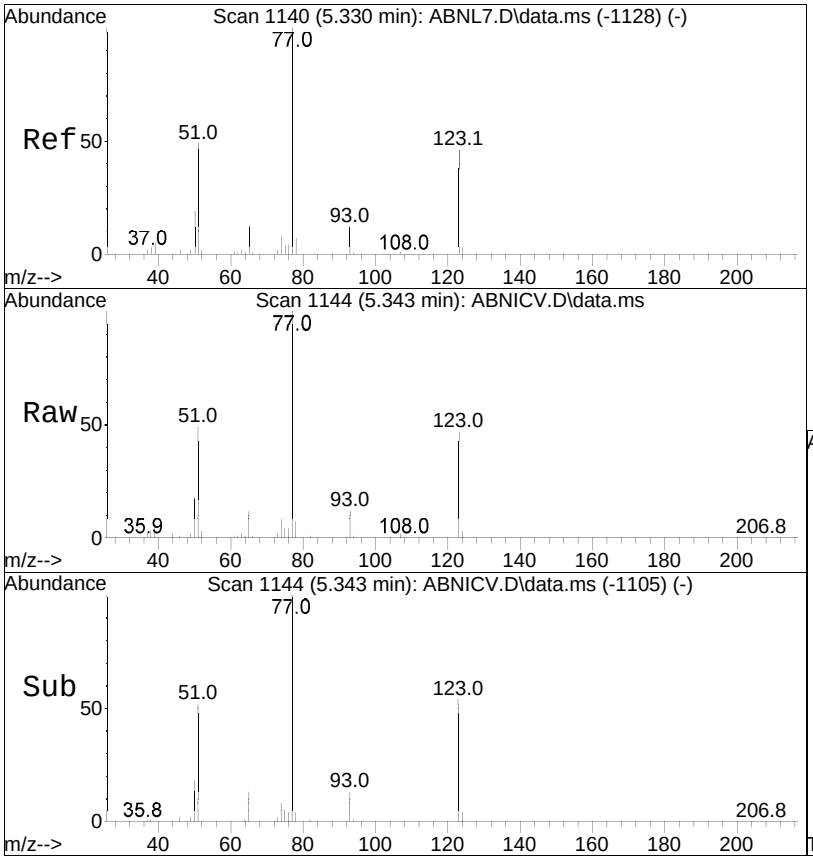


#18
3-Methylphenol/4-Methylphenol
Concen: 48.11 ug/ml
RT: 5.215 min Scan# 1103
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion:108 Resp: 248151

Ion	Ratio	Lower	Upper
108	100		
107	110.3	88.8	133.2
90	10.9	9.0	13.6

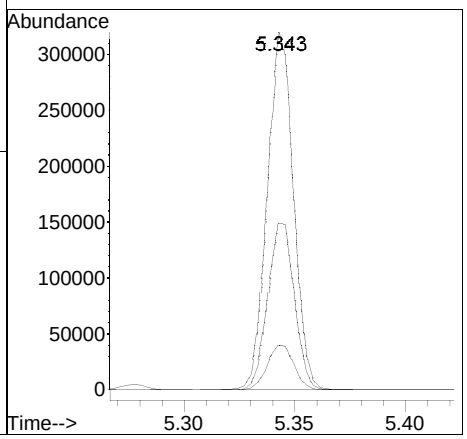


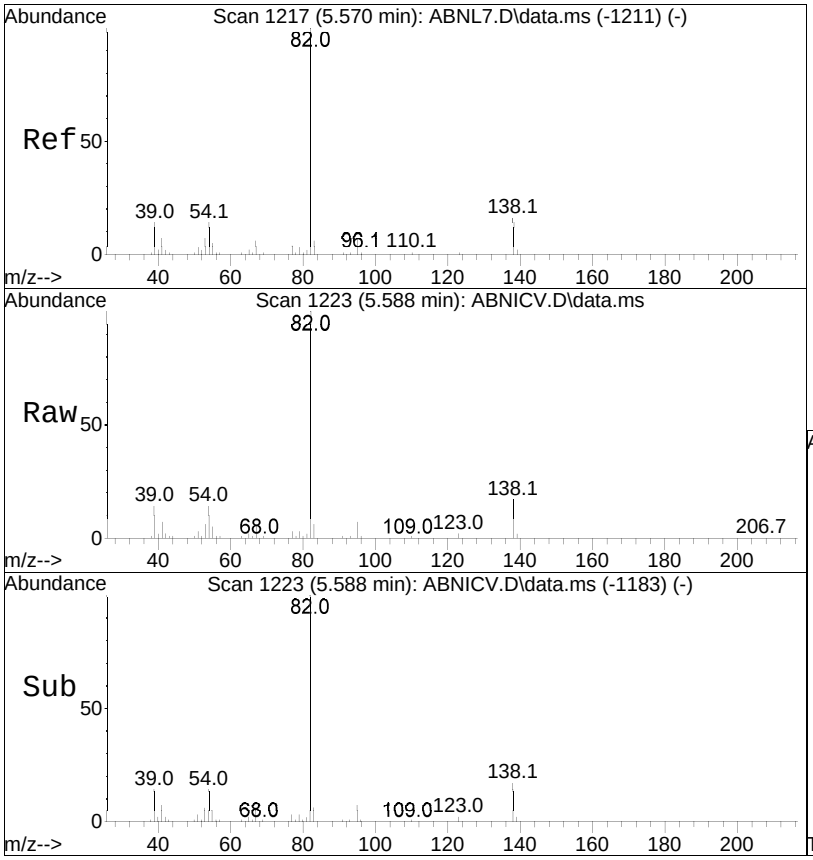


#20
Nitrobenzene
Concen: 46.42 ug/ml
RT: 5.343 min Scan# 1144
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion: 77 Resp: 260288

Ion	Ratio	Lower	Upper
77	100		
123	47.5	37.3	55.9
65	12.9	10.9	16.3

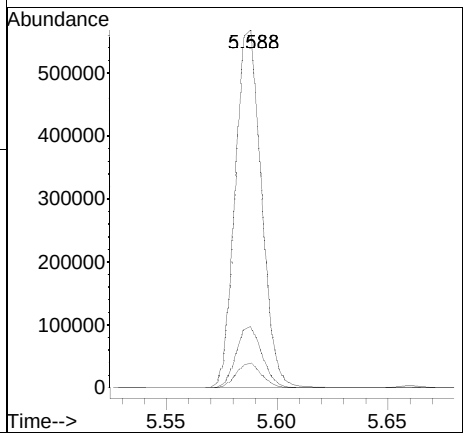


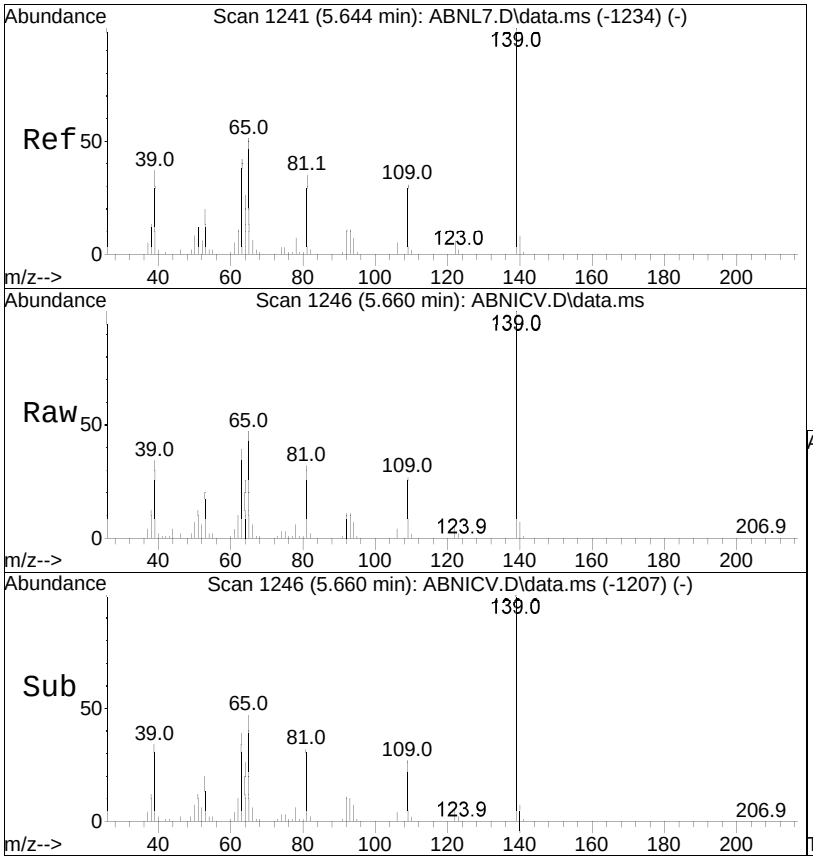


#21
Isophorone
Concen: 47.11 ug/ml
RT: 5.588 min Scan# 1223
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion: 82 Resp: 464610

Ion	Ratio	Lower	Upper
82	100		
138	17.0	13.0	19.4
95	6.8	5.5	8.3

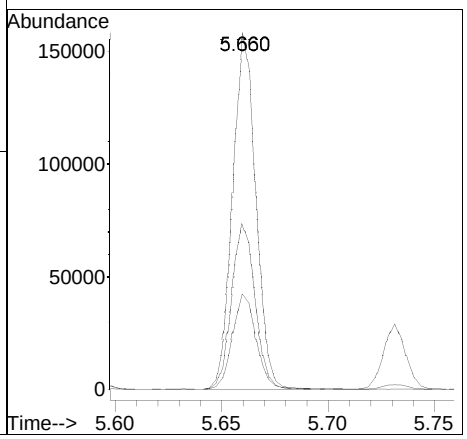


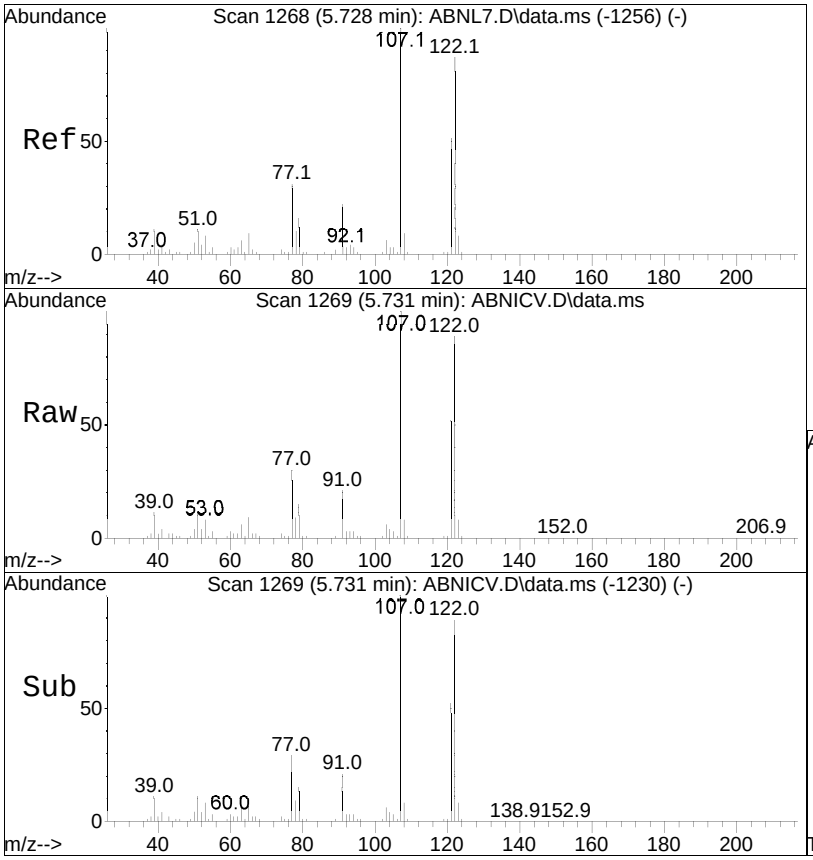


#22
2-Nitrophenol
Concen: 44.65 ug/ml
RT: 5.660 min Scan# 1246
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion:139 Resp: 119438

Ion	Ratio	Lower	Upper
139	100		
109	27.8	23.1	34.7
65	47.3	41.4	62.2

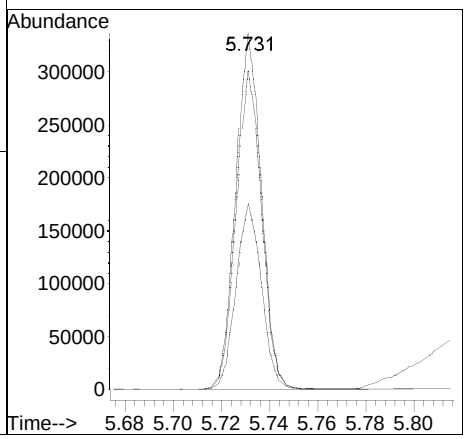


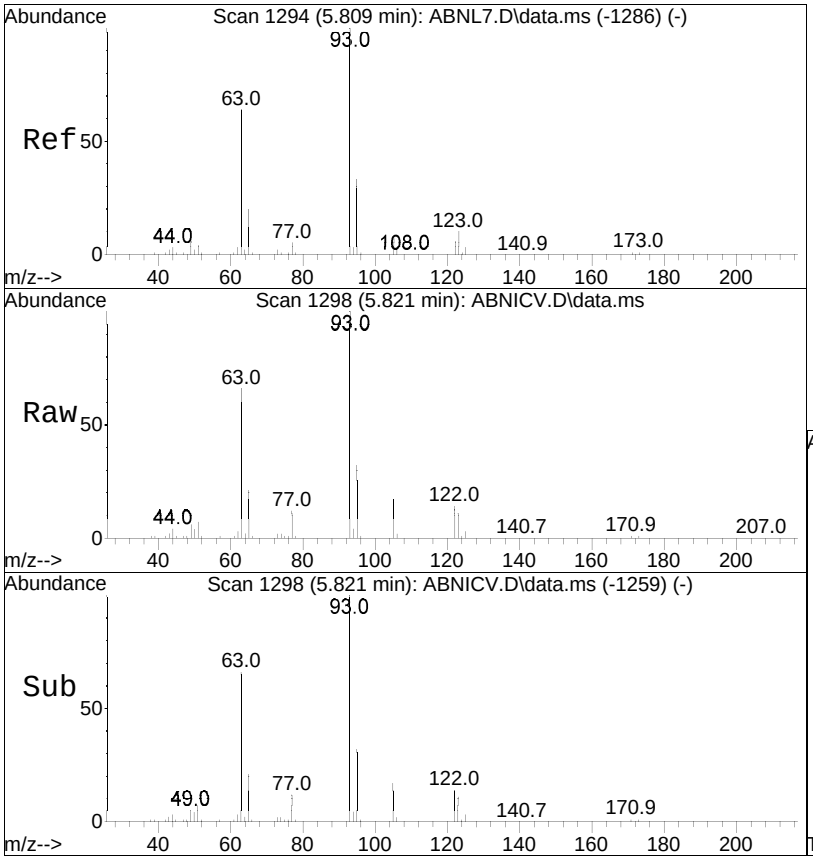


#23
2,4-Dimethylphenol
Concen: 48.14 ug/ml
RT: 5.731 min Scan# 1269
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion:107 Resp: 249186

Ion	Ratio	Lower	Upper
107	100		
121	51.7	41.3	61.9
122	89.2	69.3	103.9

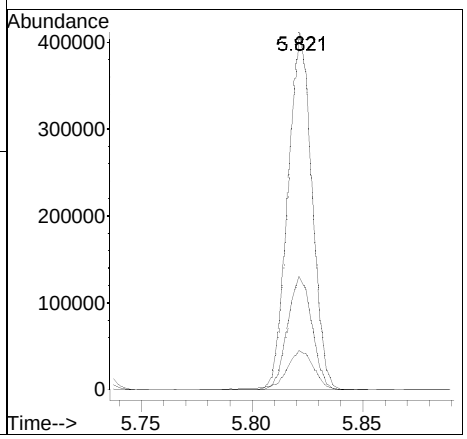


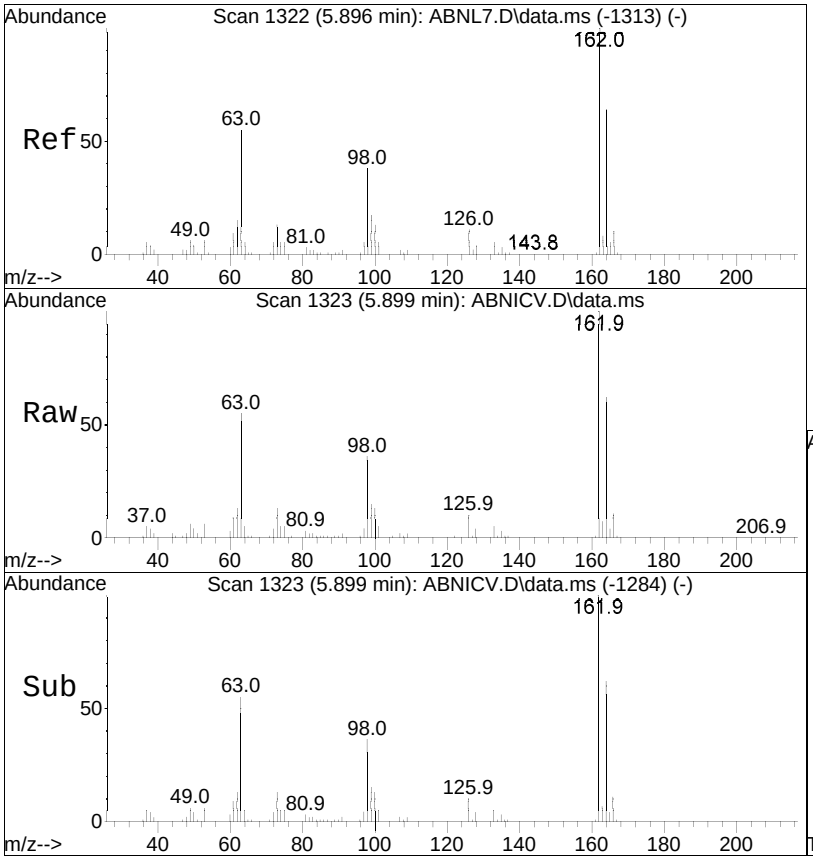


#24
Bis(2-chloroethoxy)methane
Concen: 47.01 ug/ml
RT: 5.821 min Scan# 1298
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion: 93 Resp: 308689

Ion	Ratio	Lower	Upper
93	100		
95	32.3	25.8	38.8
123	13.2	9.6	14.4

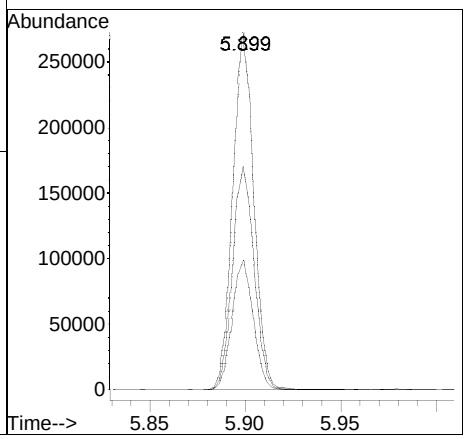


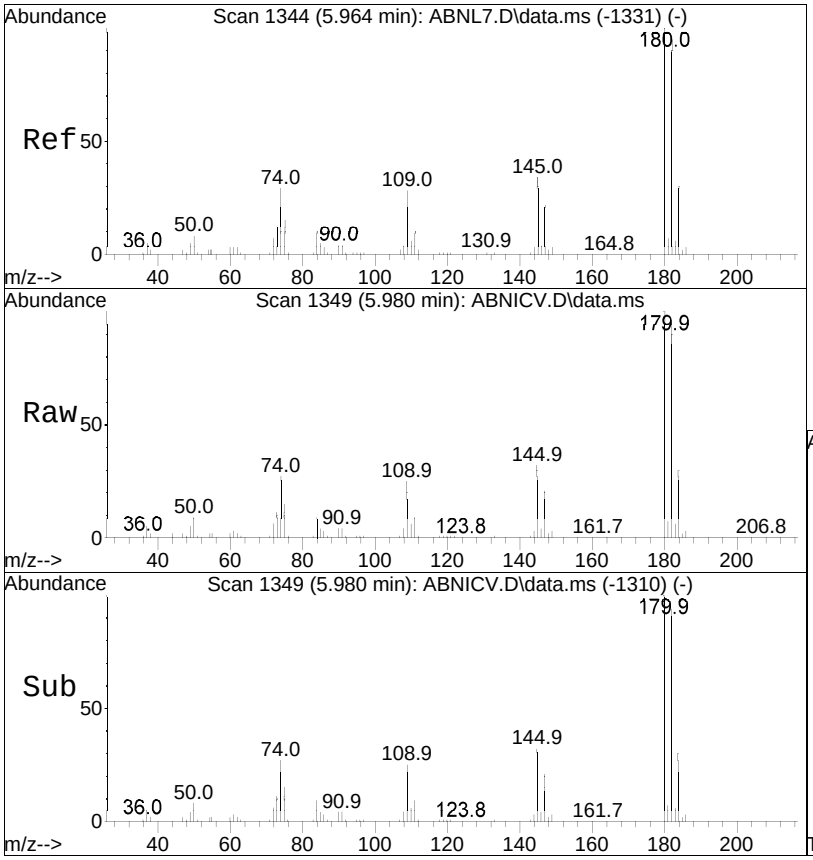


#25
2,4-Dichlorophenol
Concen: 48.27 ug/ml
RT: 5.899 min Scan# 1323
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion:162 Resp: 207284

Ion	Ratio	Lower	Upper
162	100		
164	64.2	51.1	76.7
98	36.7	32.2	48.2

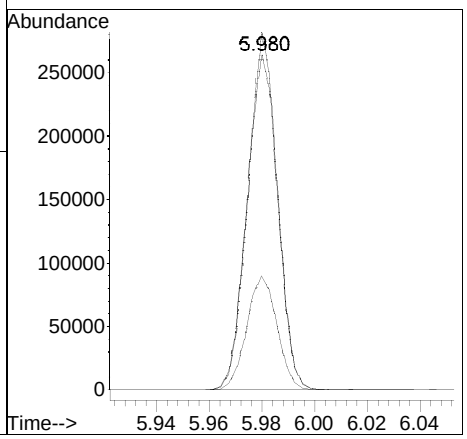


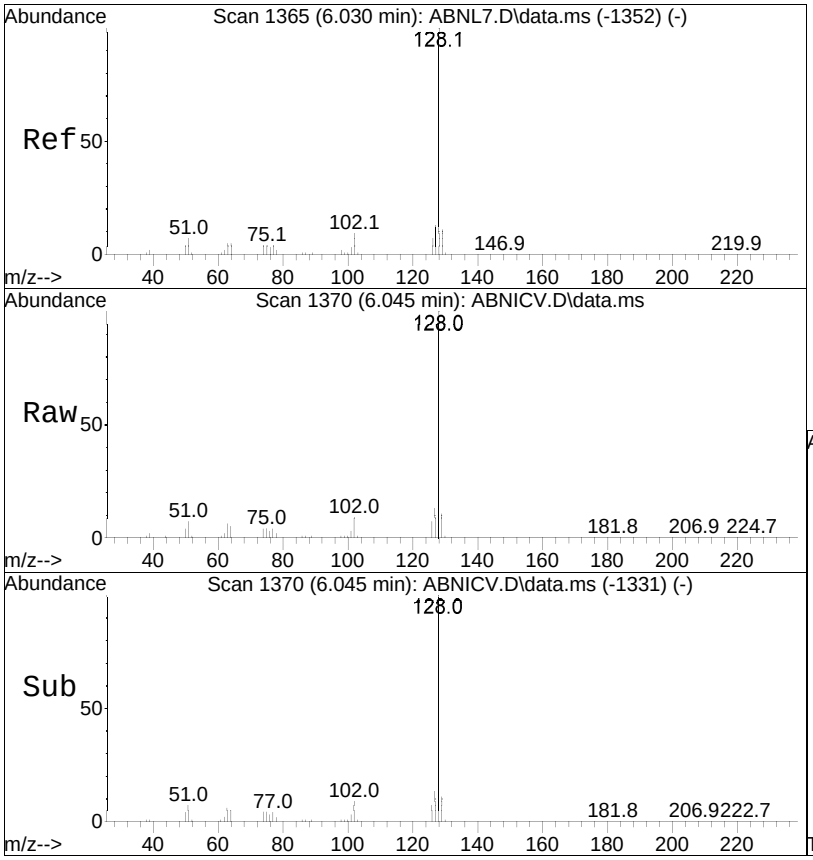


#26
1,2,4-Trichlorobenzene
Concen: 46.54 ug/ml
RT: 5.980 min Scan# 1349
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion:180 Resp: 219418

Ion	Ratio	Lower	Upper
180	100		
182	95.6	75.8	113.8
145	32.4	26.3	39.5

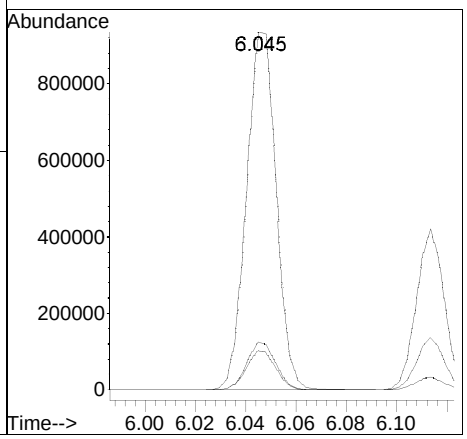


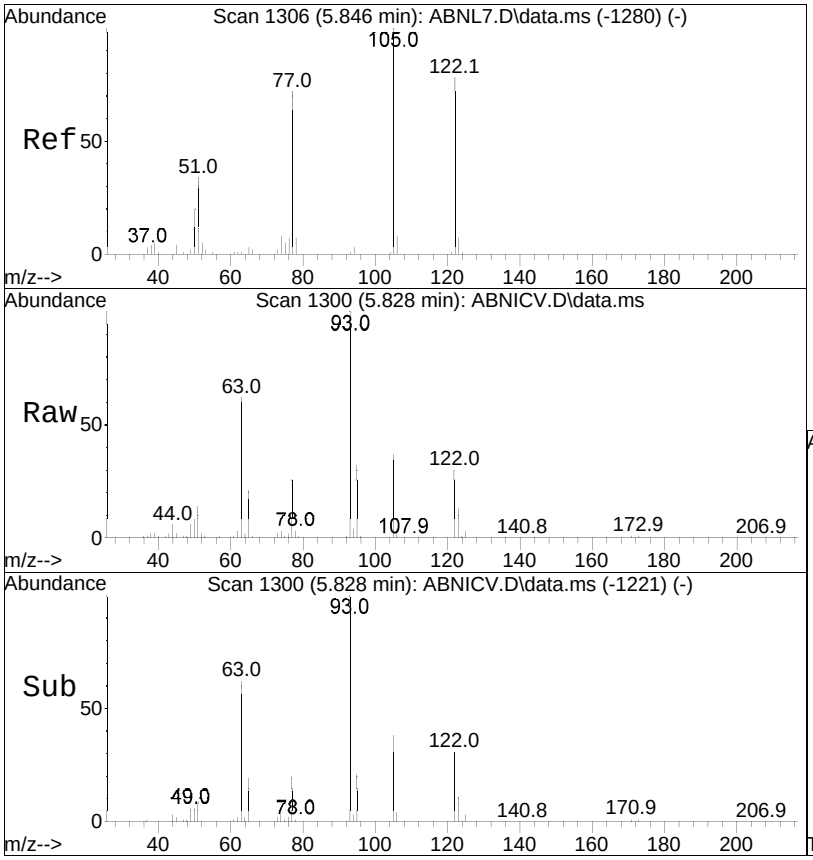


#35
Naphthalene
Concen: 46.68 ug/ml
RT: 6.045 min Scan# 1370
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion:128 Resp: 764244

Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.9	13.3
127	13.1	10.6	15.8

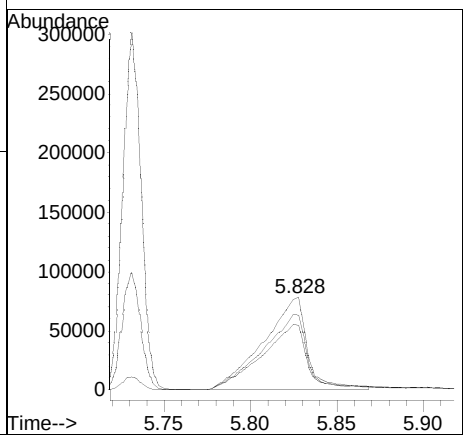


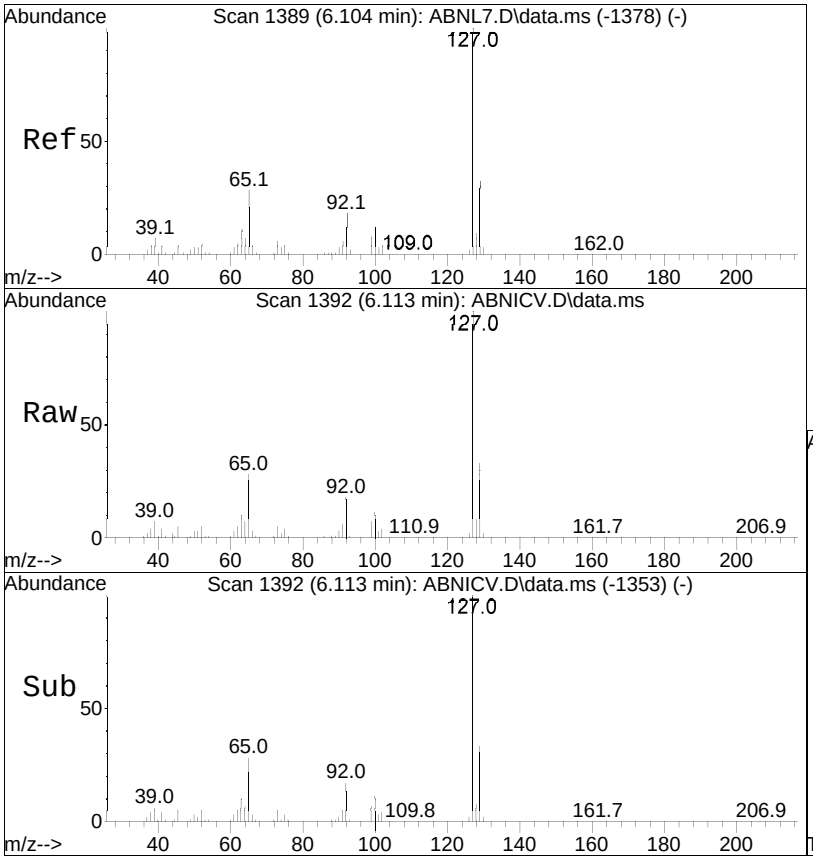


#36
Benzoic Acid
Concen: 39.40 ug/ml
RT: 5.828 min Scan# 1300
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion:105 Resp: 140132

Ion	Ratio	Lower	Upper
105	100		
122	86.1	62.6	93.8
77	74.2	59.1	88.7

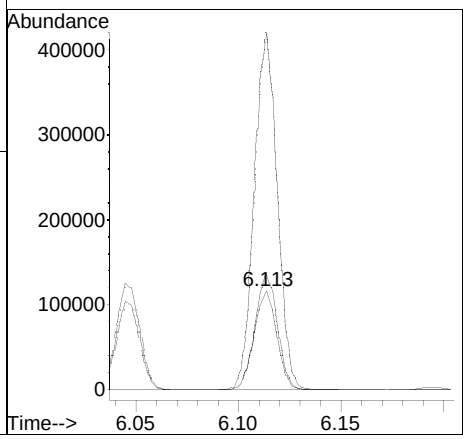


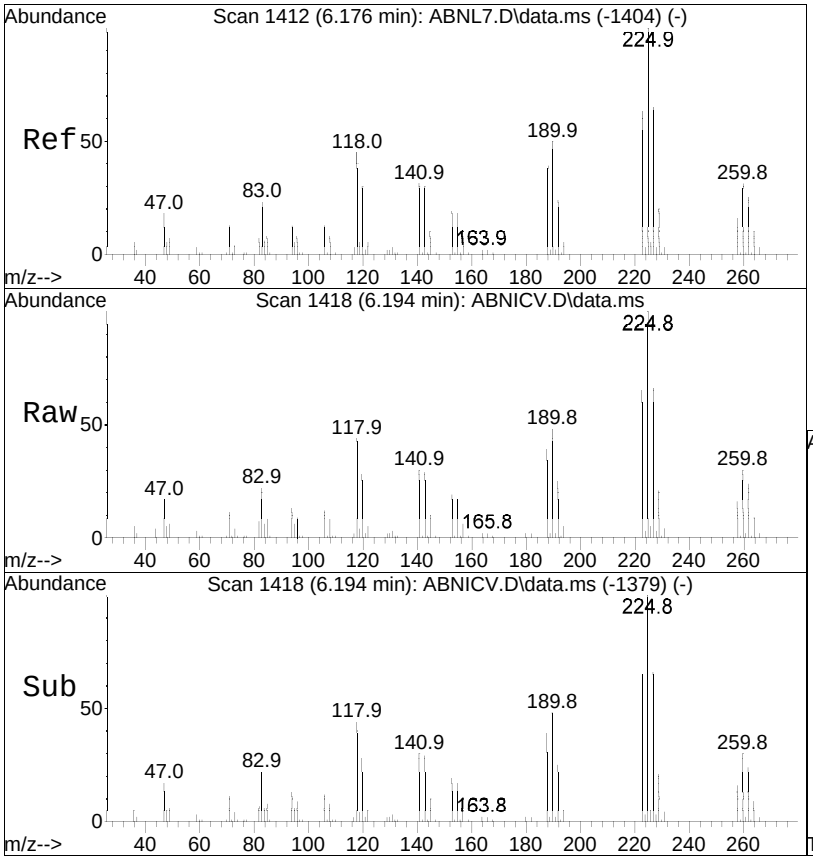


#37
4-Chloroaniline
Concen: 45.77 ug/ml
RT: 6.113 min Scan# 1392
Delta R.T. -0.004 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion: 65 Resp: 89911

Ion	Ratio	Lower	Upper
65	100		
127	360.6	266.2	399.4
129	116.6	85.0	127.4

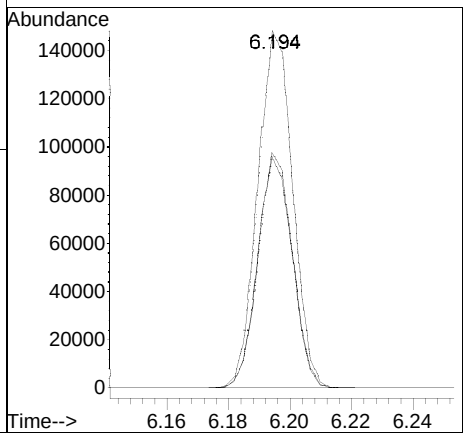


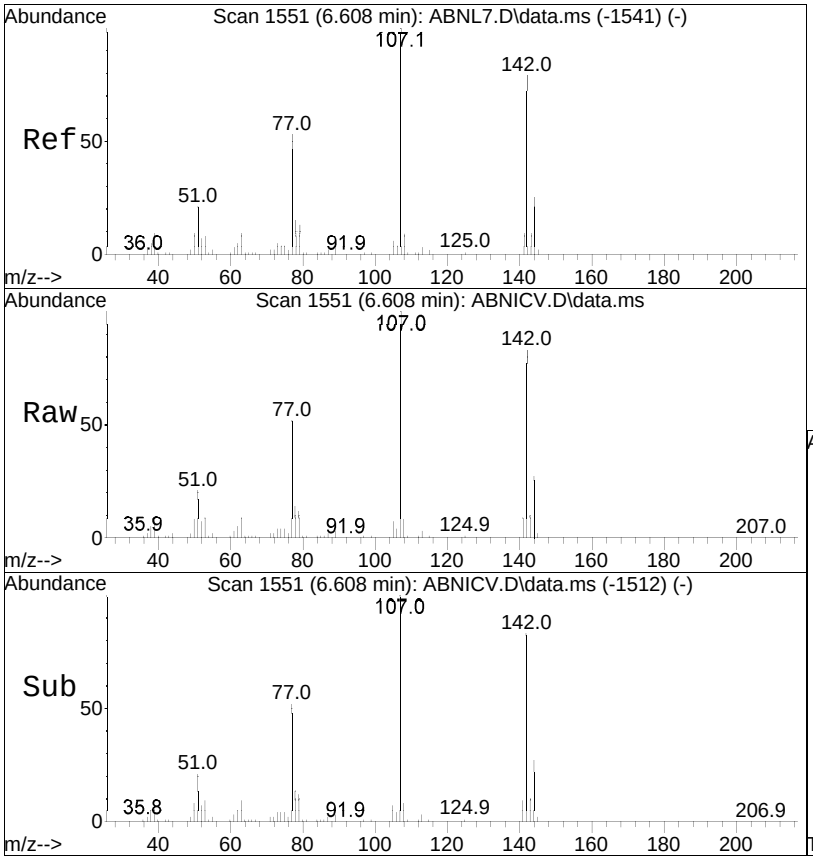


#38
Hexachlorobutadiene
Concen: 47.44 ug/ml
RT: 6.194 min Scan# 1418
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion:225 Resp: 116305

Ion	Ratio	Lower	Upper
225	100		
223	63.8	50.5	75.7
227	64.9	50.4	75.6

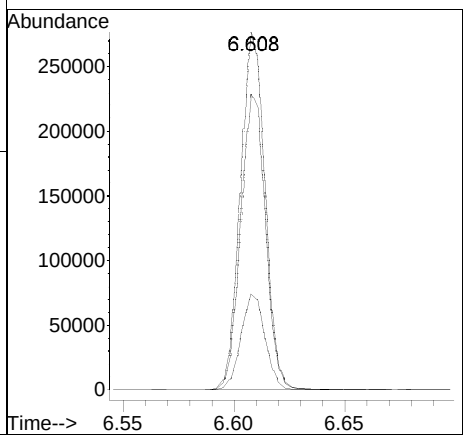


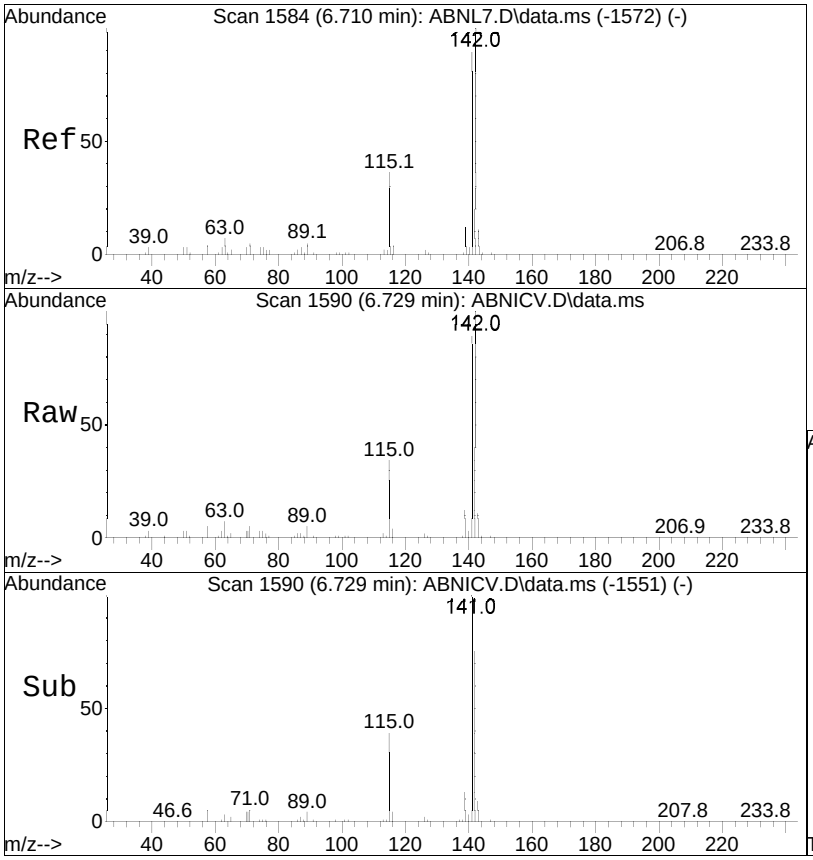


#39
p-Chloro-m-cresol
Concen: 47.12 ug/ml
RT: 6.608 min Scan# 1551
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion:107 Resp: 211931

Ion	Ratio	Lower	Upper
107	100		
144	26.5	20.3	30.5
142	83.0	63.8	95.6

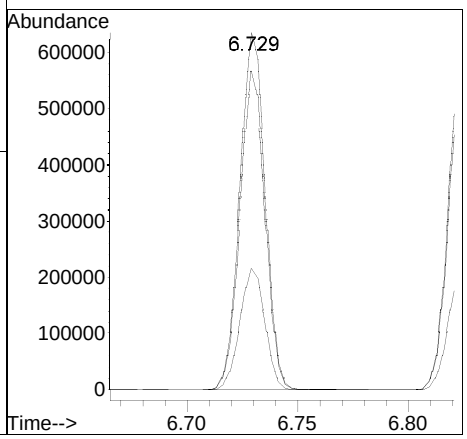


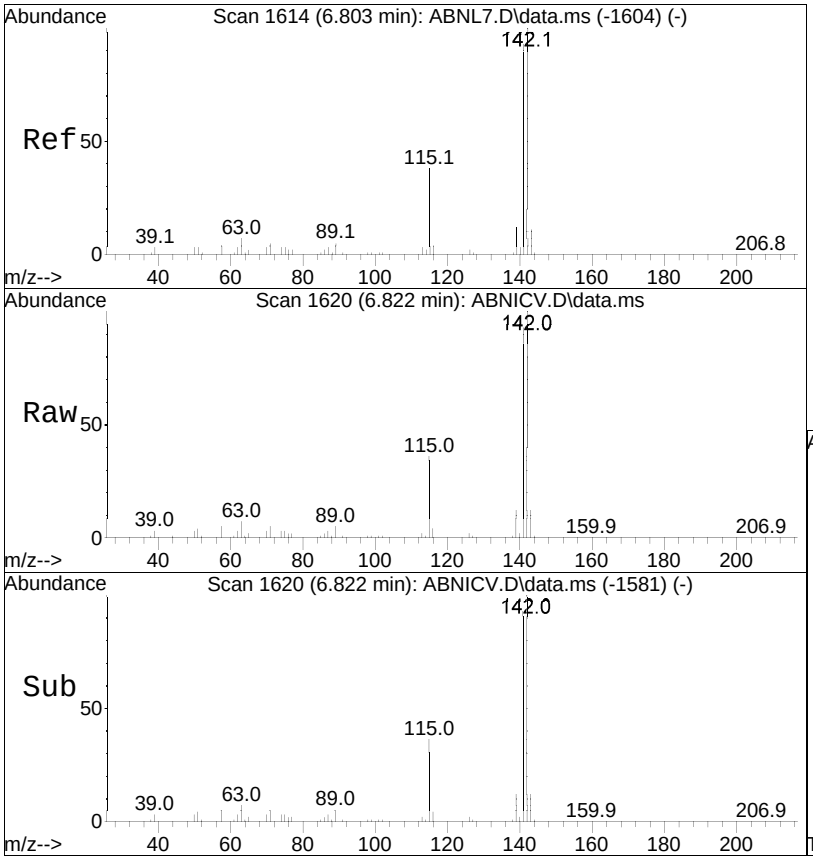


#40
2-Methylnaphthalene
Concen: 47.72 ug/ml
RT: 6.729 min Scan# 1590
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion:142 Resp: 507661

Ion	Ratio	Lower	Upper
142	100		
141	88.3	72.2	108.4
115	33.8	27.8	41.6

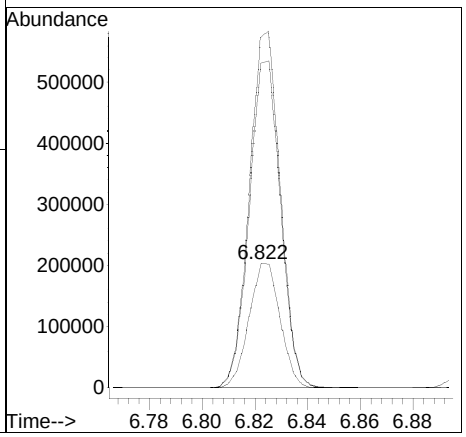


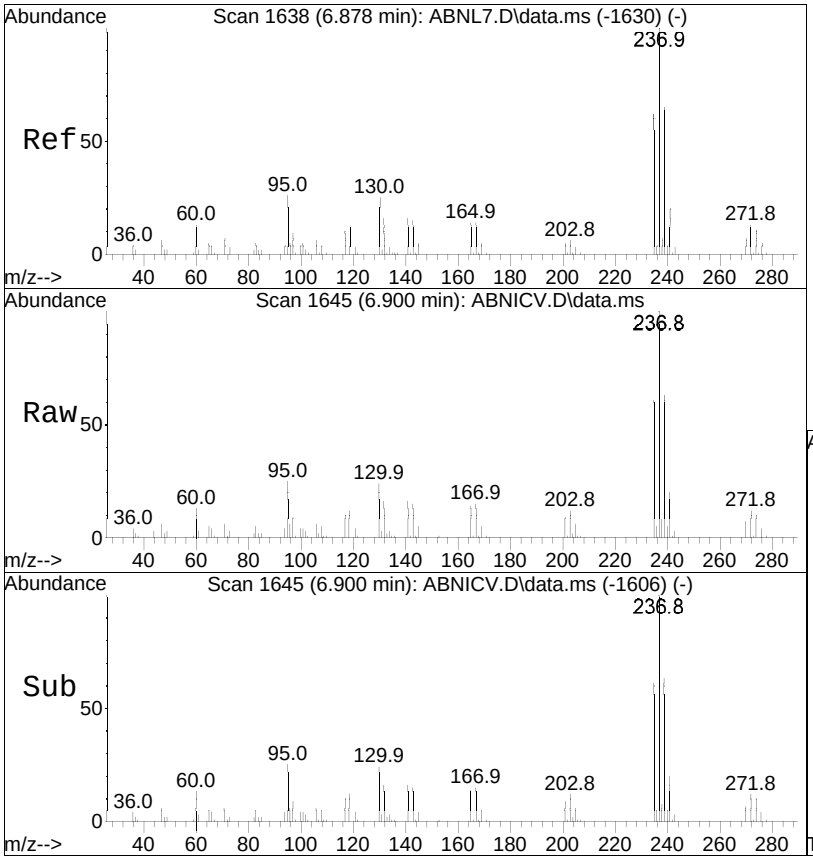


#41
1-Methylnaphthalene
Concen: 46.05 ug/ml
RT: 6.822 min Scan# 1620
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion:115 Resp: 167018

Ion	Ratio	Lower	Upper
115	100		
141	263.5	205.4	308.2
142	285.4	220.2	330.4

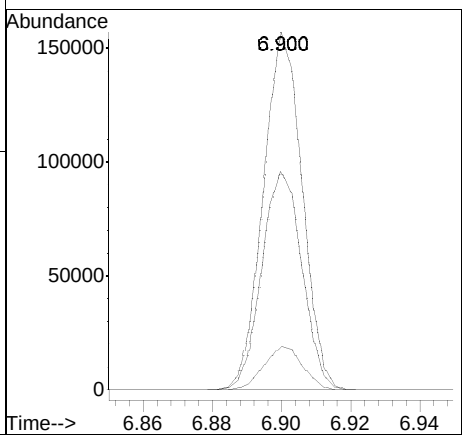


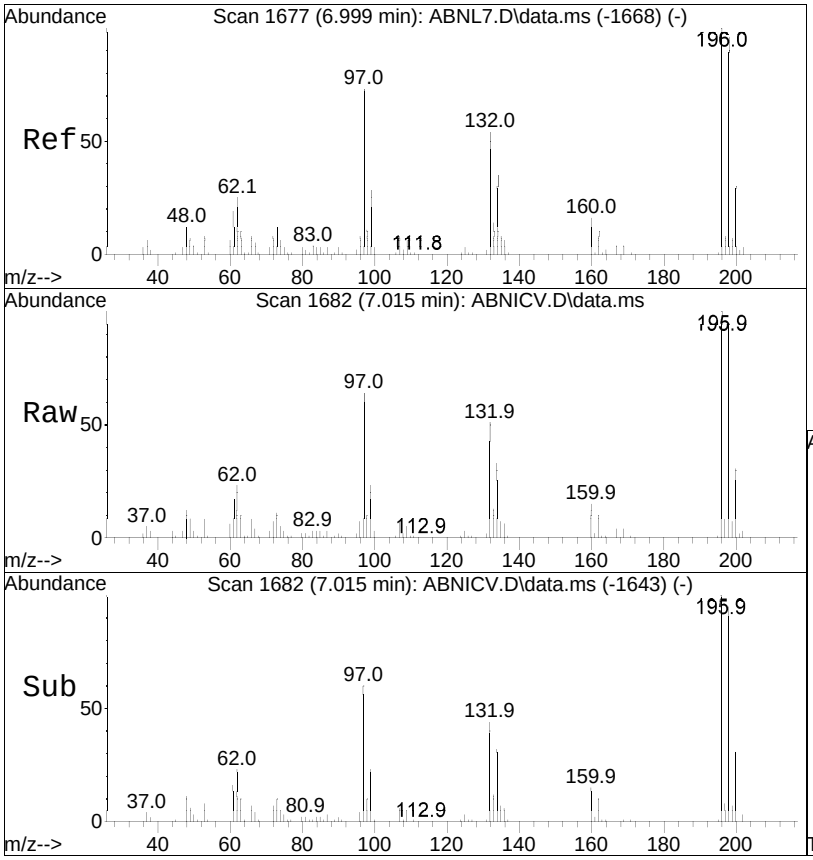


#42
Hexachlorocyclopentadiene
Concen: 43.54 ug/ml
RT: 6.900 min Scan# 1645
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion:237 Resp: 121759

Ion	Ratio	Lower	Upper
237	100		
235	62.9	50.9	76.3
272	12.2	10.1	15.1

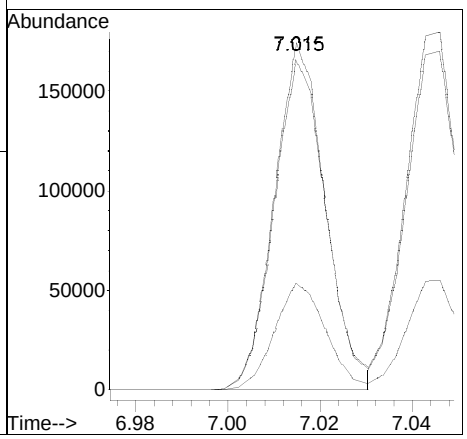


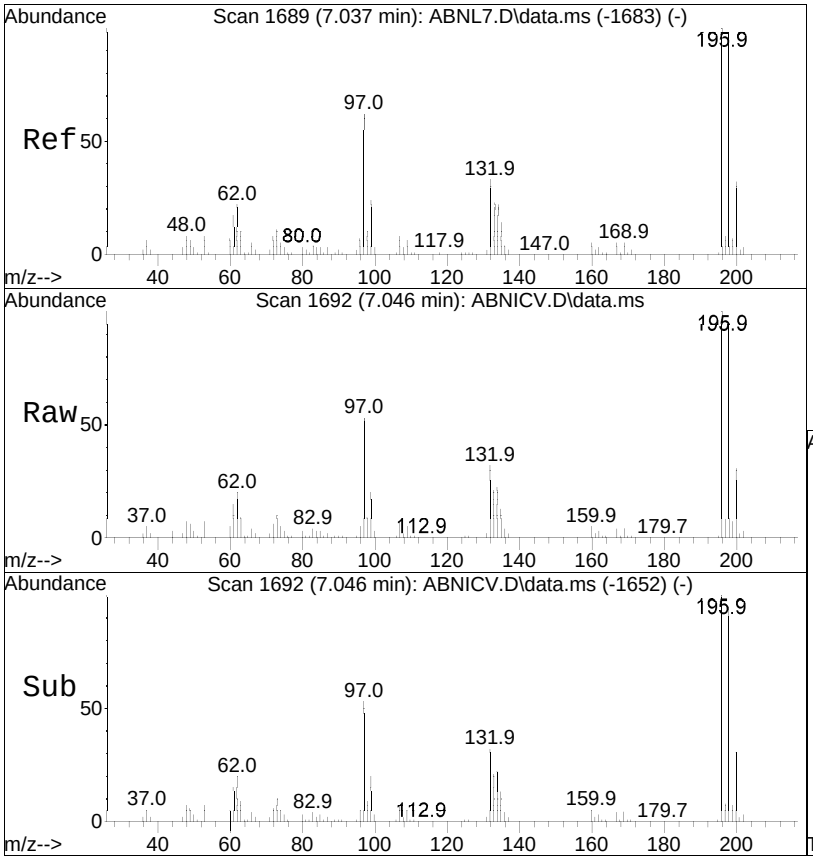


#43
2,4,6-Trichlorophenol
Concen: 48.01 ug/ml
RT: 7.015 min Scan# 1682
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion:196 Resp: 134070

Ion	Ratio	Lower	Upper
196	100		
198	96.4	76.4	114.6
200	31.0	24.4	36.6

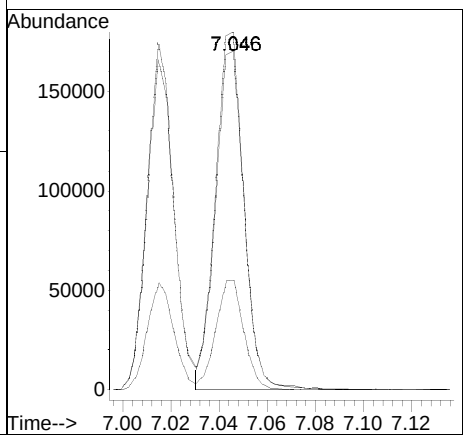


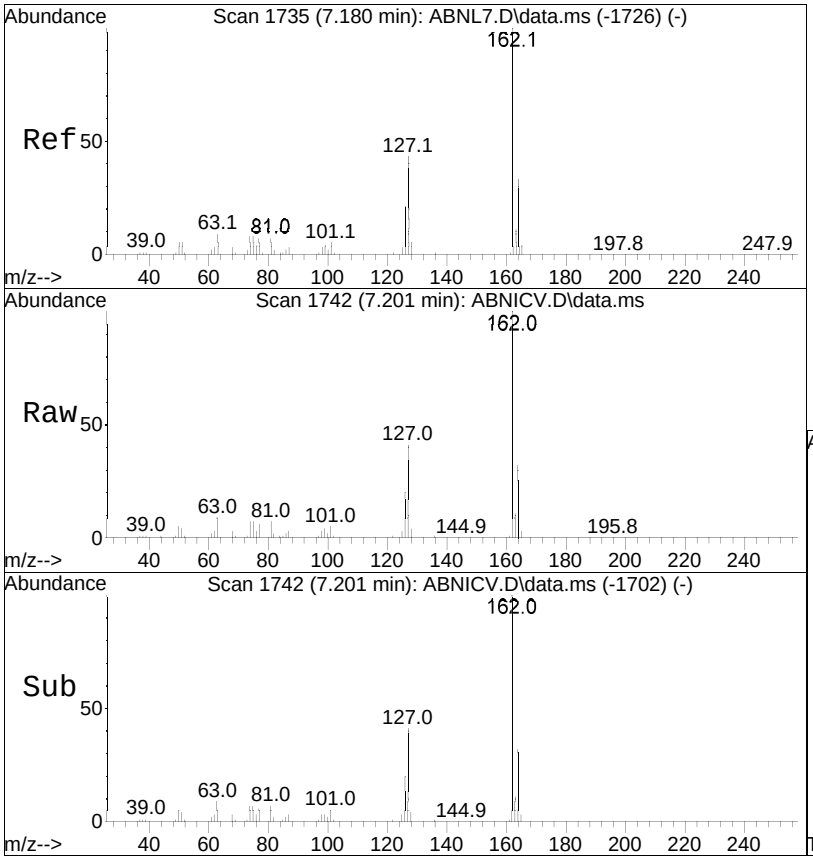


#44
2,4,5-Trichlorophenol
Concen: 47.94 ug/ml
RT: 7.046 min Scan# 1692
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion:196 Resp: 146367

Ion	Ratio	Lower	Upper
196	100		
200	30.5	24.2	36.4
198	95.1	76.2	114.2

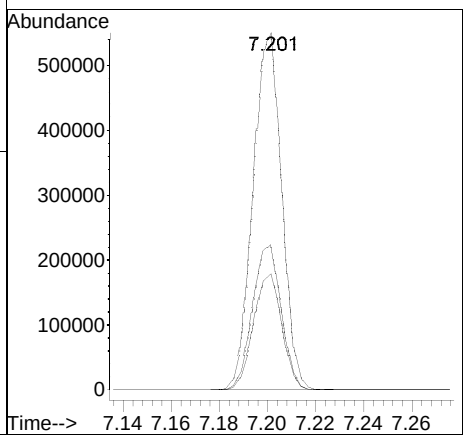


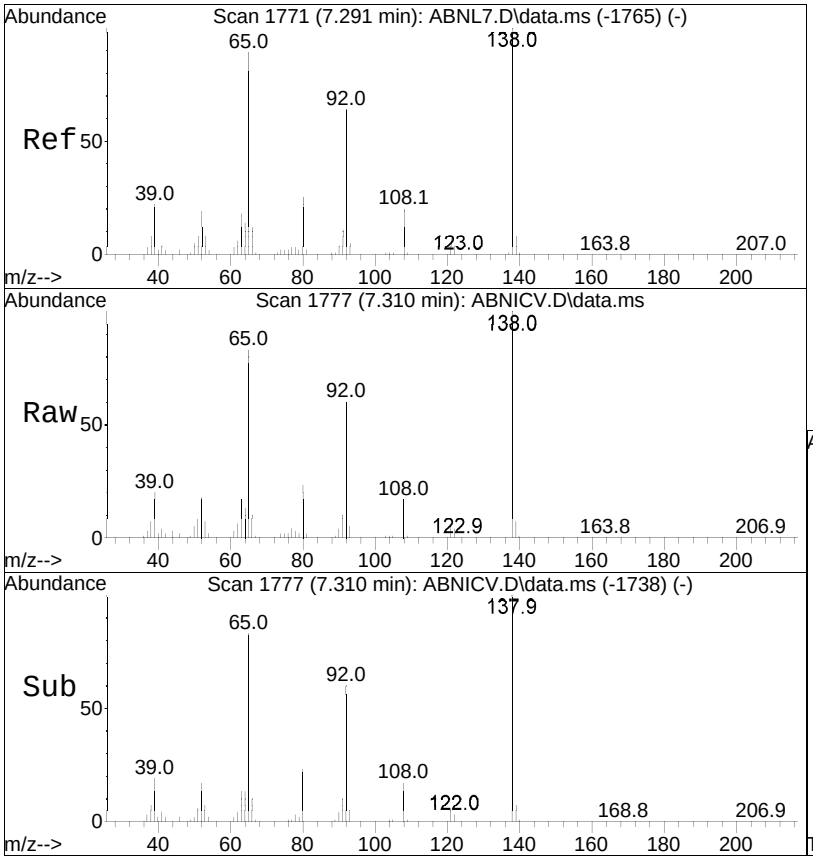


#46
2-Chloronaphthalene
Concen: 47.38 ug/ml
RT: 7.201 min Scan# 1742
Delta R.T. 0.000 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion:162 Resp: 451266

Ion	Ratio	Lower	Upper
162	100		
127	40.7	33.8	50.6
164	32.4	25.8	38.6

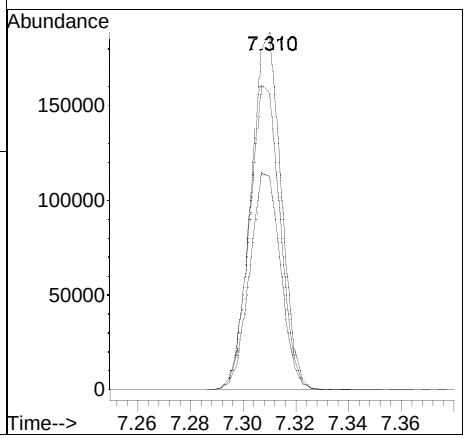


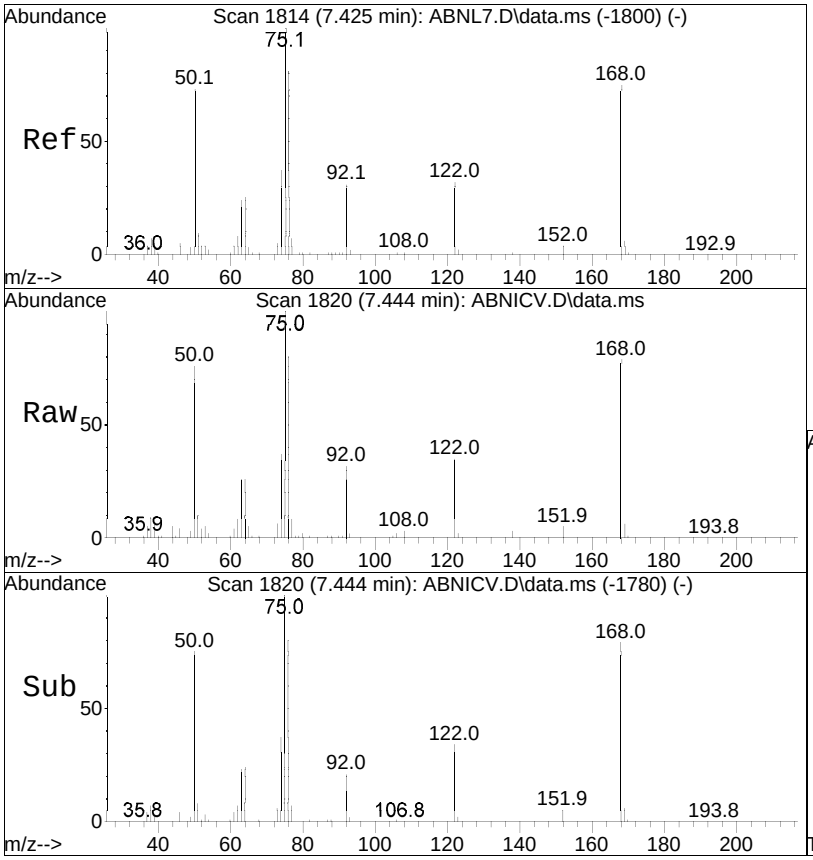


#47
2-Nitroaniline
Concen: 46.47 ug/ml
RT: 7.310 min Scan# 1777
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion:138 Resp: 148273

Ion	Ratio	Lower	Upper
138	100		
92	62.5	52.1	78.1
65	86.6	75.9	113.9

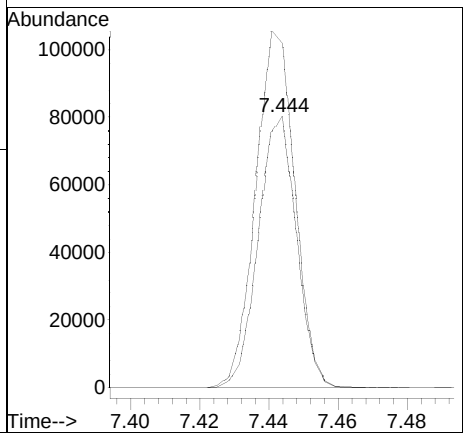


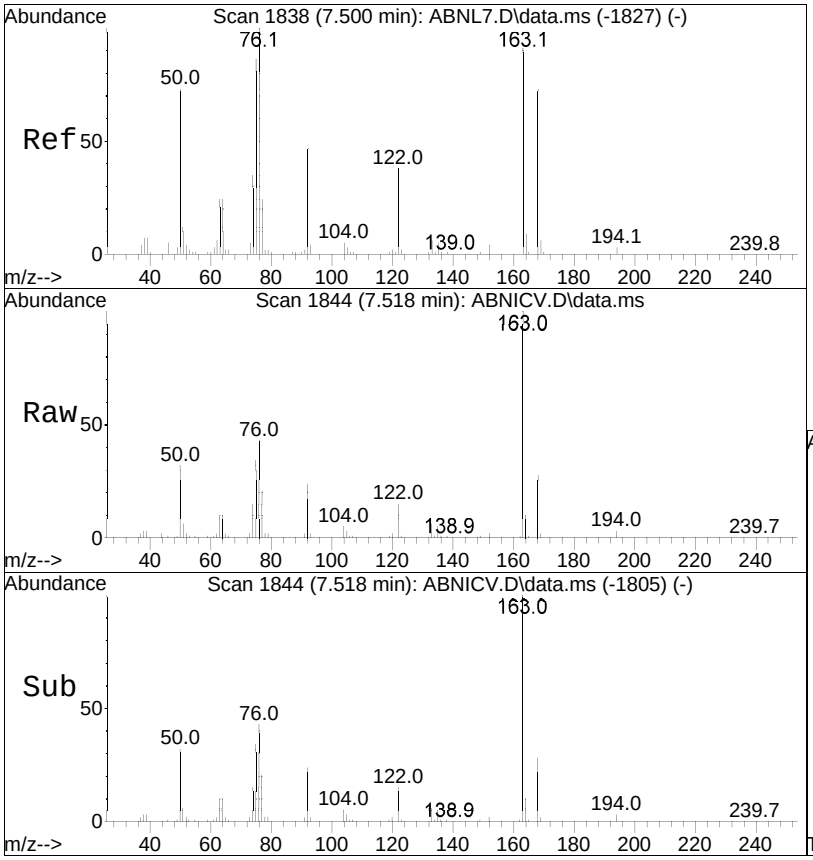


#48
1,4-Dinitrobenzene
Concen: 43.76 ug/ml
RT: 7.444 min Scan# 1820
Delta R.T. -0.000 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion:168 Resp: 61534

Ion	Ratio	Lower	Upper
168	100		
75	135.3	111.0	166.4

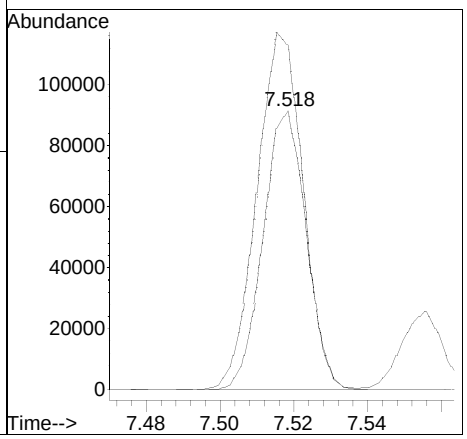


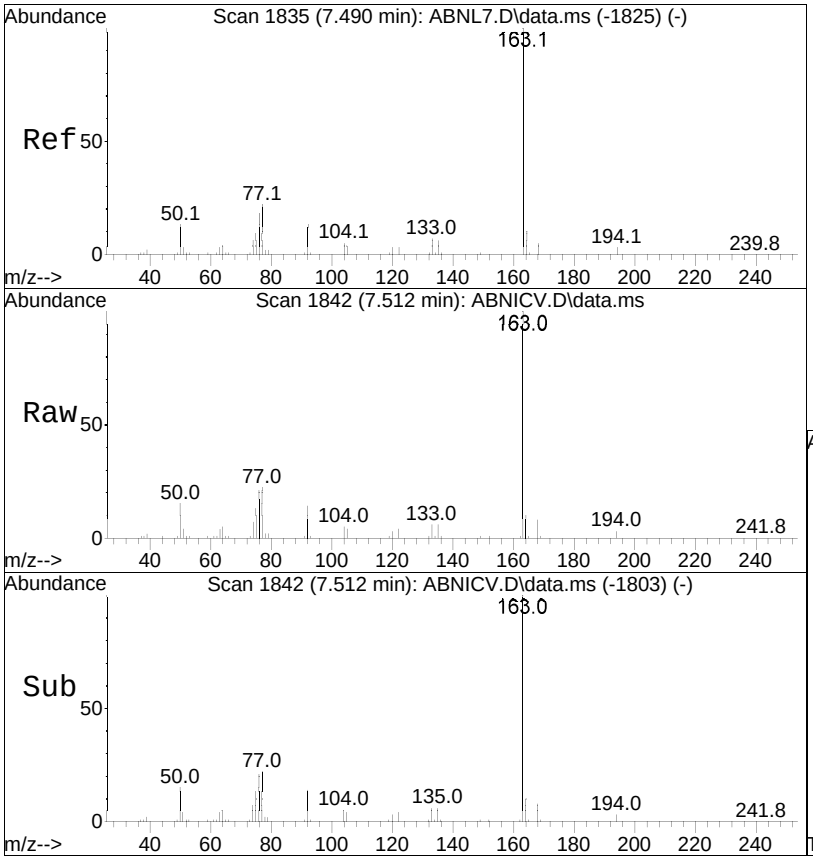


#49
1,3-Dinitrobenzene
Concen: 48.01 ug/ml
RT: 7.518 min Scan# 1844
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion:168 Resp: 73800

Ion	Ratio	Lower	Upper
168	100		
75	137.4	116.4	174.6

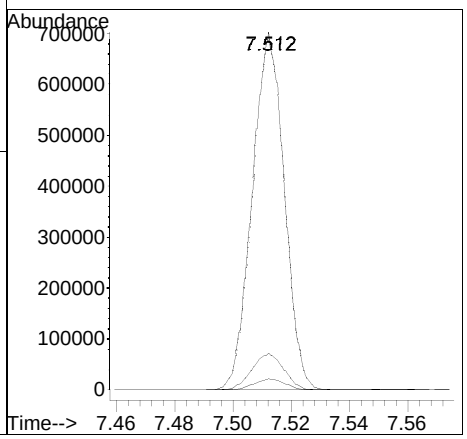


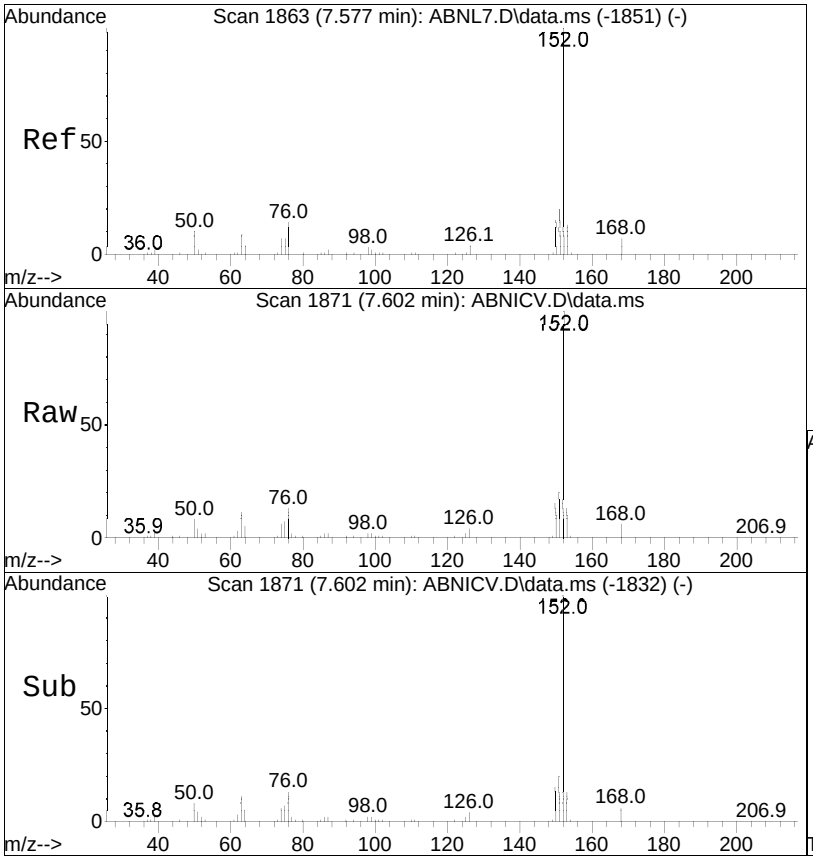


#50
Dimethyl phthalate
Concen: 48.52 ug/ml
RT: 7.512 min Scan# 1842
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion:163 Resp: 529420

Ion	Ratio	Lower	Upper
163	100		
194	3.1	2.3	3.5
164	10.3	8.2	12.2

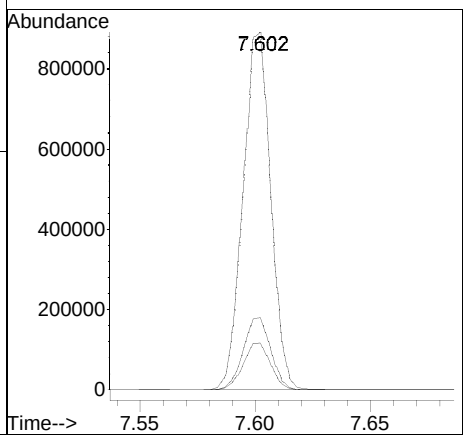


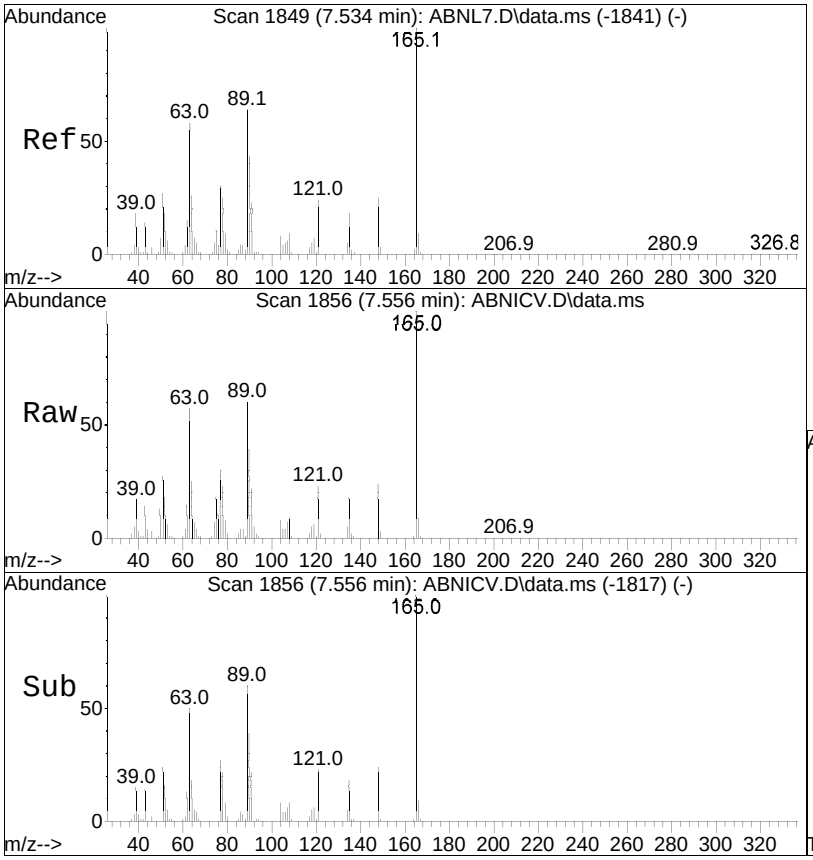


#51
Acenaphthylene
Concen: 48.77 ug/ml
RT: 7.602 min Scan# 1871
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion:152 Resp: 738411

Ion	Ratio	Lower	Upper
152	100		
151	20.2	15.9	23.9
153	13.1	10.5	15.7

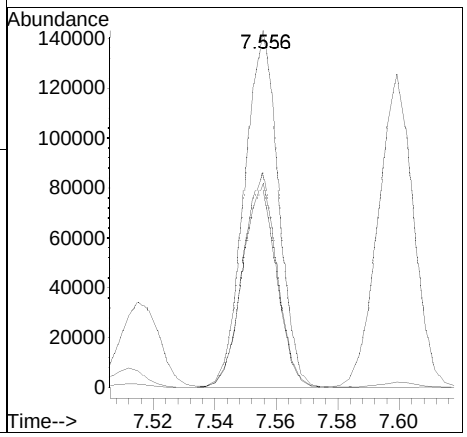


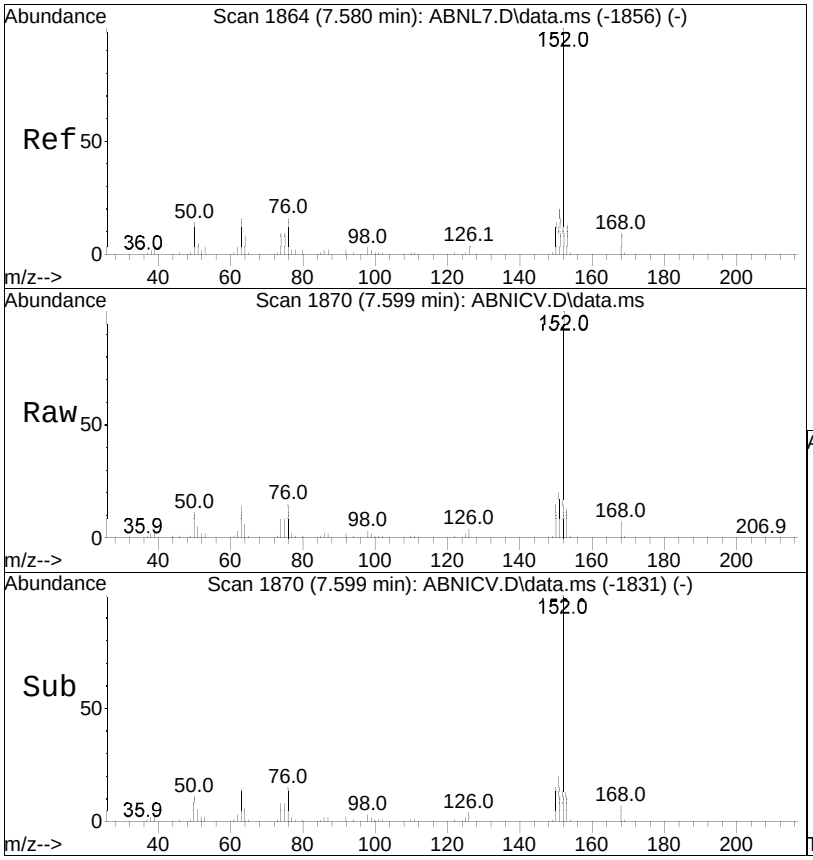


#52
2,6-Dinitrotoluene
Concen: 49.61 ug/ml
RT: 7.556 min Scan# 1856
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion:165 Resp: 110590

Ion	Ratio	Lower	Upper
165	100		
89	60.1	48.8	73.2
63	57.0	50.5	75.7

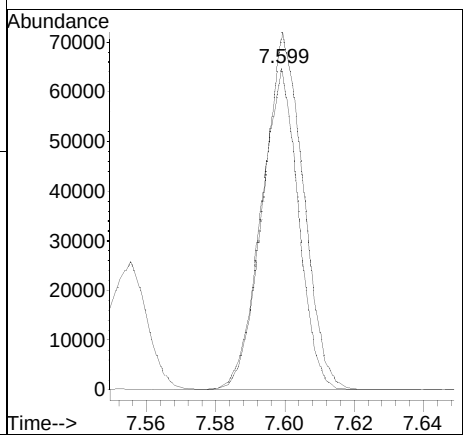


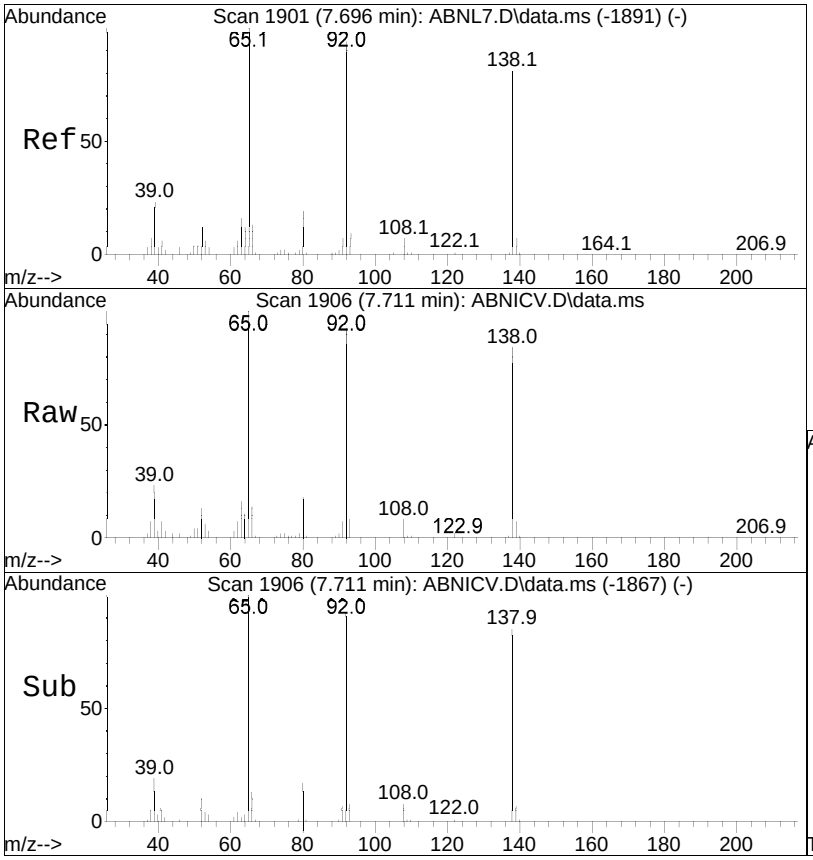


#53
1,2-Dinitrobenzene
Concen: 49.92 ug/ml
RT: 7.599 min Scan# 1870
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion:168 Resp: 48441

Ion	Ratio	Lower	Upper
168	100		
75	117.3	32.2	48.2#

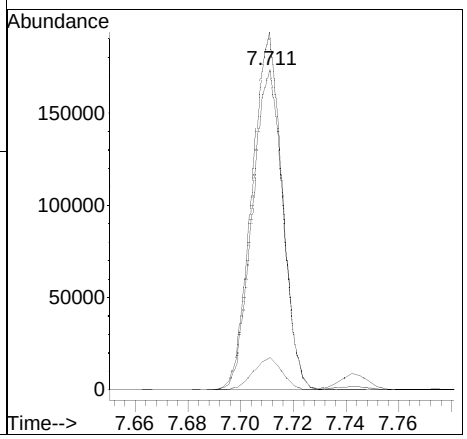


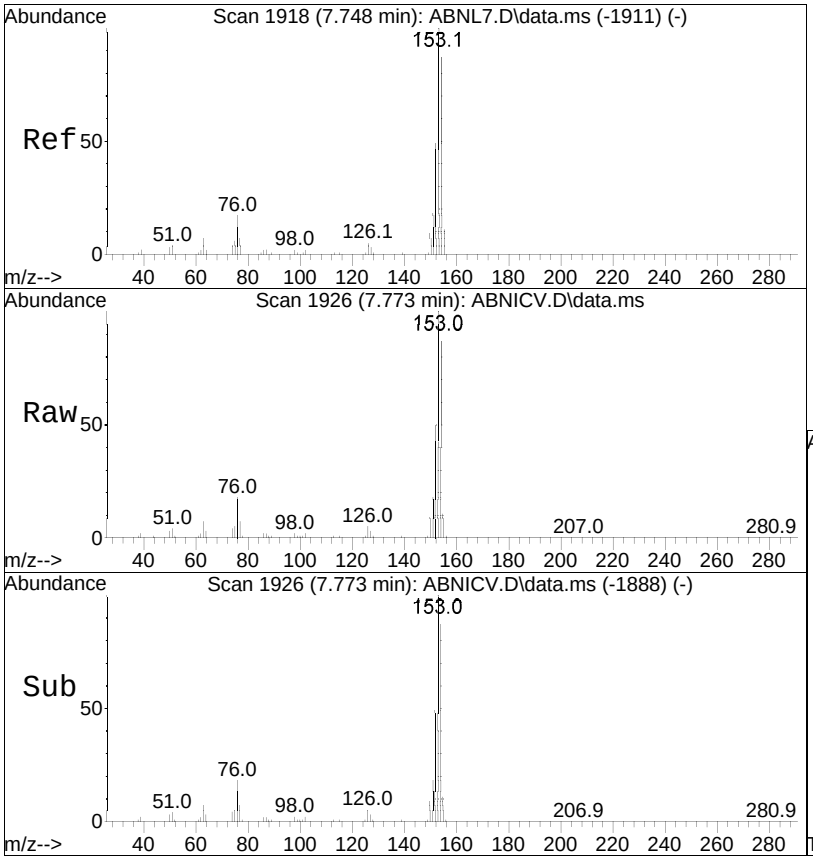


#63
3-Nitroaniline
Concen: 48.09 ug/ml
RT: 7.711 min Scan# 1906
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion:138 Resp: 138748

Ion	Ratio	Lower	Upper
138	100		
92	109.8	92.8	139.2
108	9.8	7.9	11.9

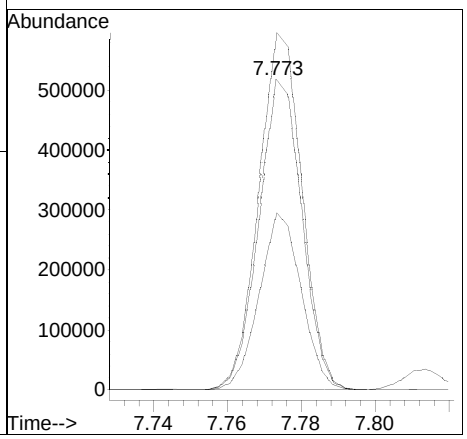


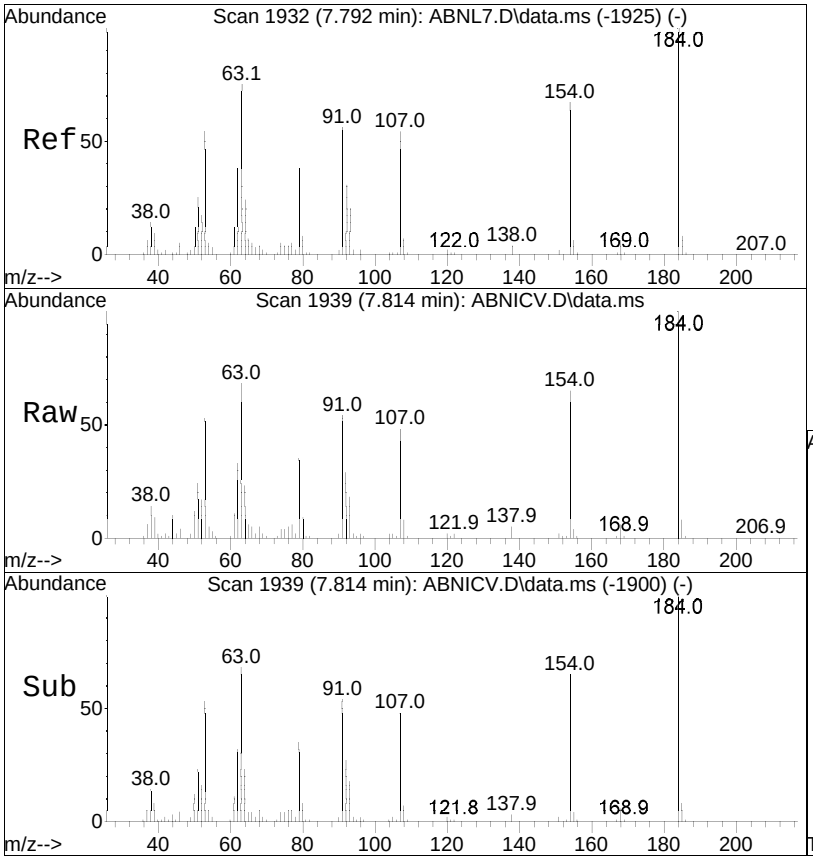


#64
Acenaphthene
Concen: 47.10 ug/ml
RT: 7.773 min Scan# 1926
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion:154 Resp: 419166

Ion	Ratio	Lower	Upper
154	100		
153	115.8	93.0	139.4
152	56.0	43.3	64.9

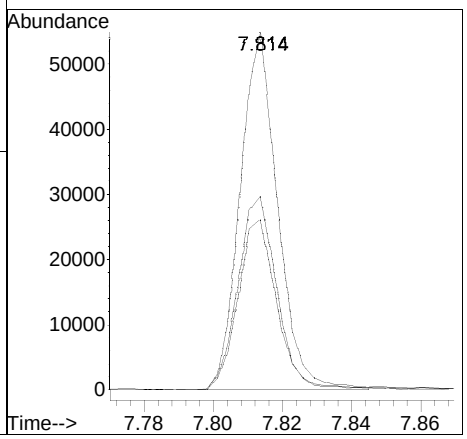


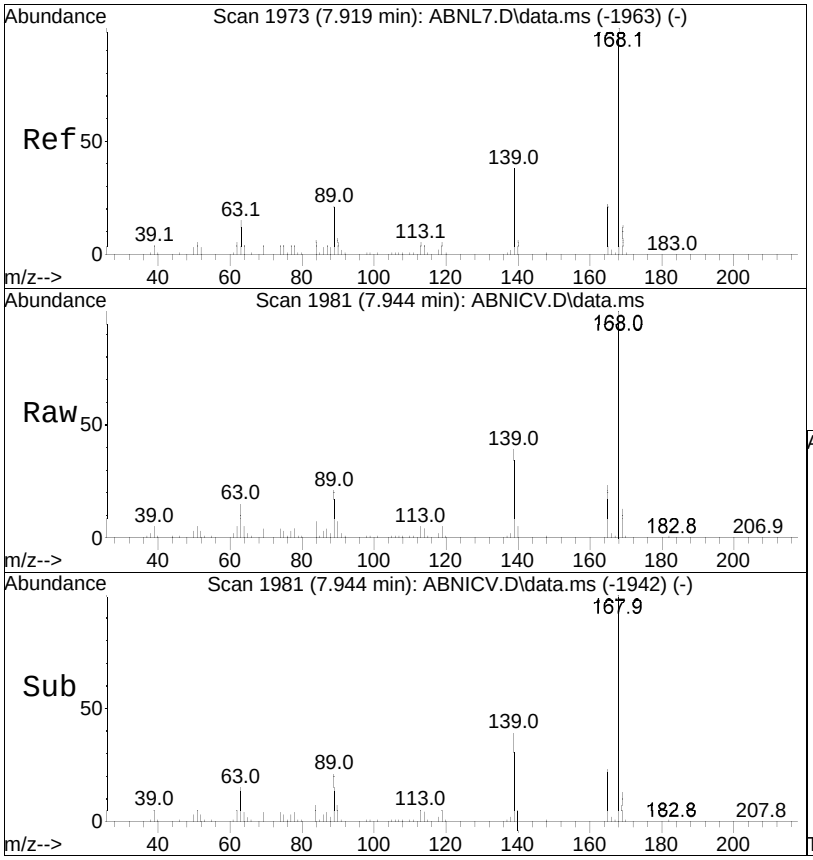


#65
2,4-Dinitrophenol
Concen: 37.99 ug/ml
RT: 7.814 min Scan# 1939
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion:184 Resp: 41101

Ion	Ratio	Lower	Upper
184	100		
107	50.0	41.8	62.6
91	57.0	44.2	66.2

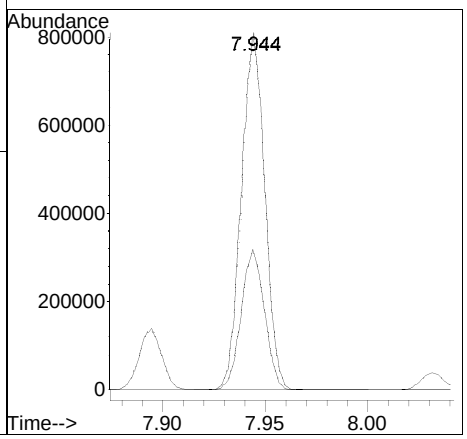


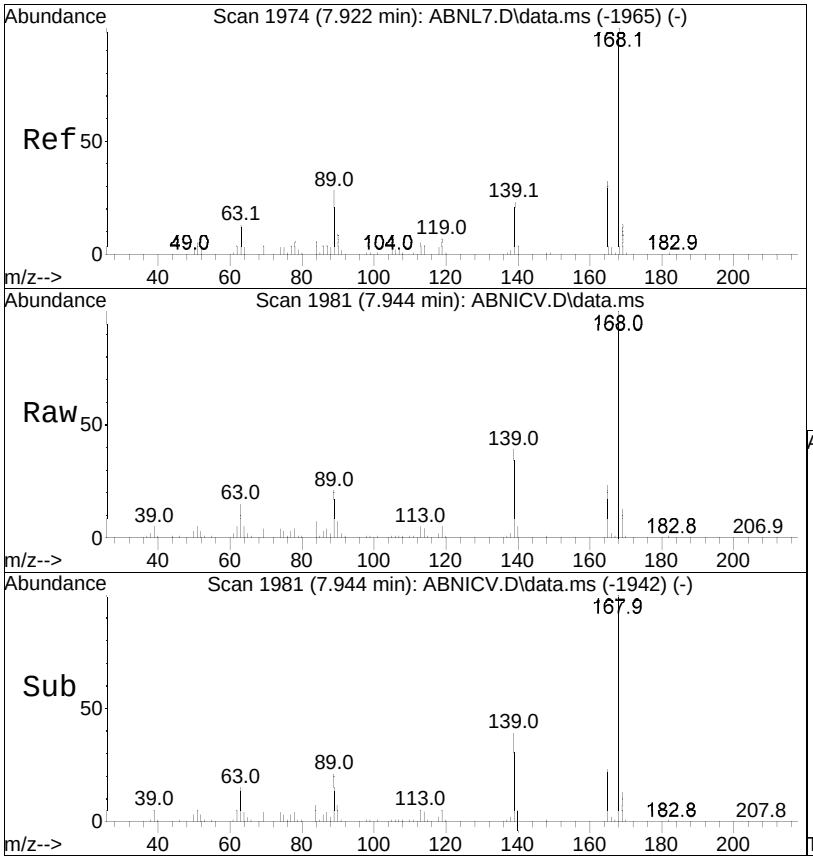


#66
Dibenzofuran
Concen: 46.73 ug/ml
RT: 7.944 min Scan# 1981
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion:168 Resp: 633489

Ion	Ratio	Lower	Upper
168	100		
139	39.6	32.3	48.5

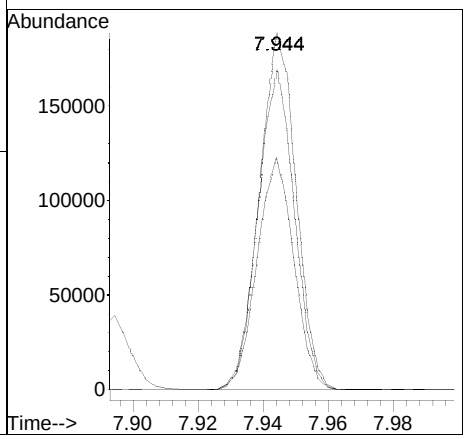


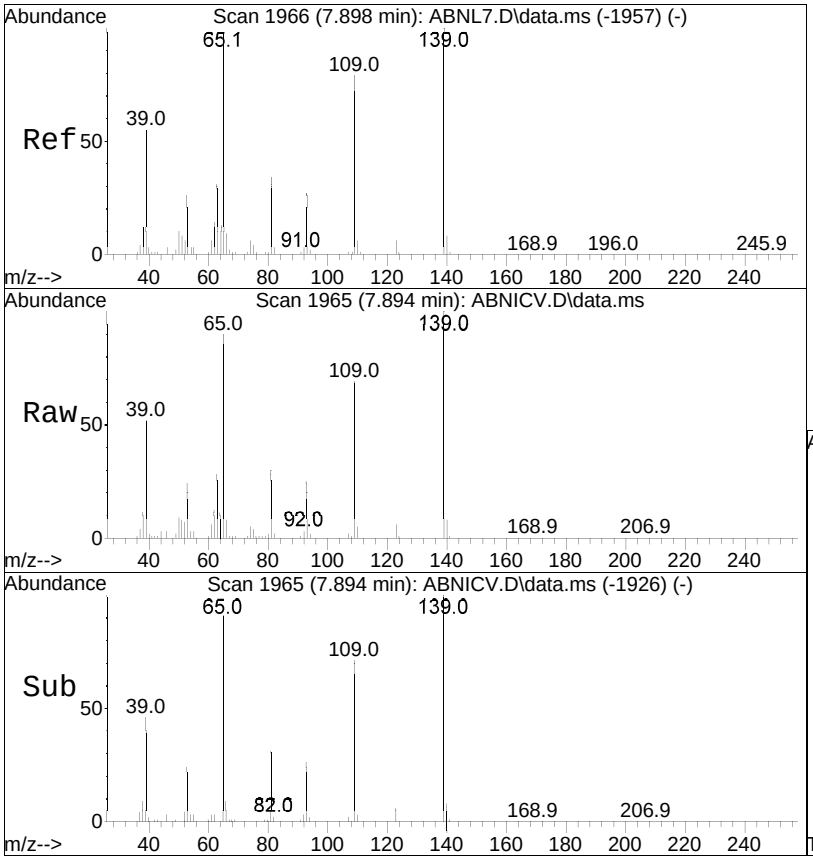


#67
2,4-Dinitrotoluene
Concen: 50.85 ug/ml
RT: 7.944 min Scan# 1981
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion:165 Resp: 146533

Ion	Ratio	Lower	Upper
165	100		
89	89.6	73.0	109.4
63	65.3	56.3	84.5

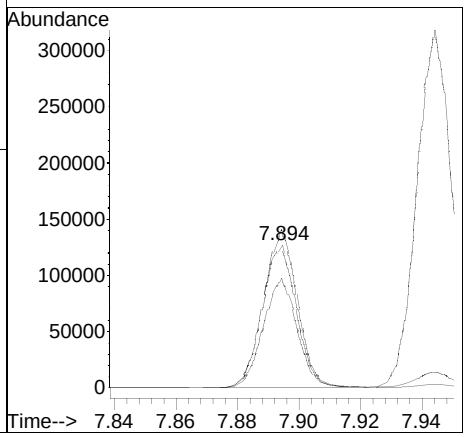


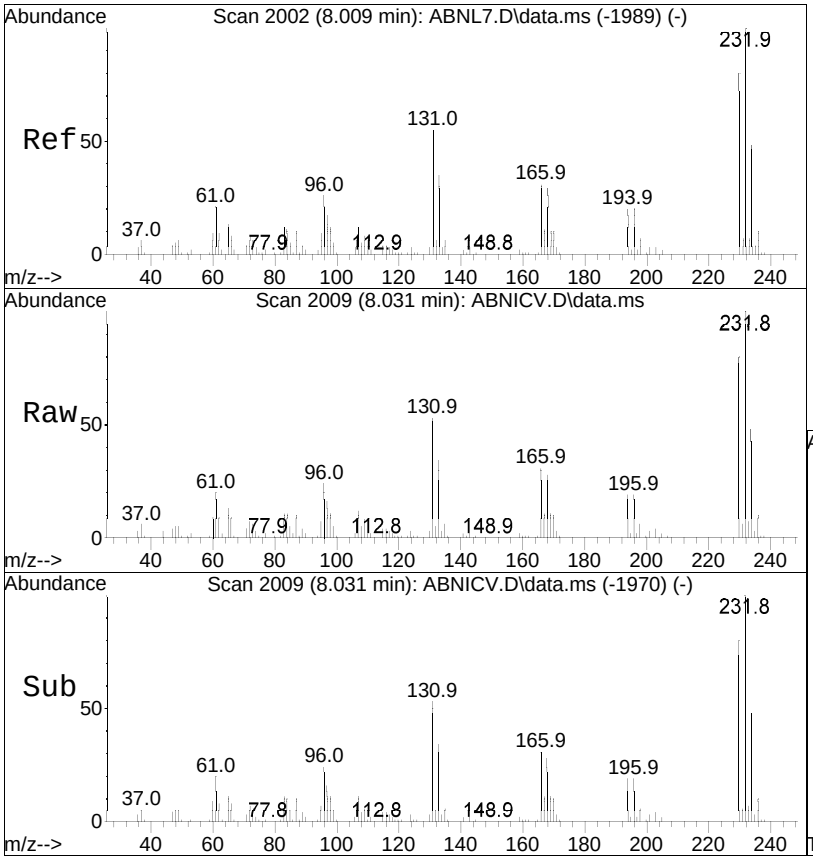


#68
4-Nitrophenol
Concen: 45.44 ug/ml
RT: 7.894 min Scan# 1965
Delta R.T. -0.004 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion: 65 Resp: 99062

Ion	Ratio	Lower	Upper
65	100		
109	75.8	60.2	90.2
139	109.1	81.1	121.7

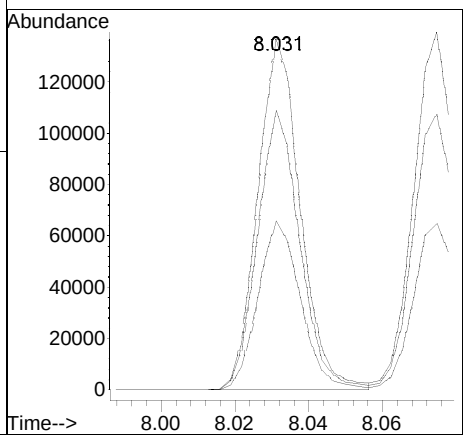


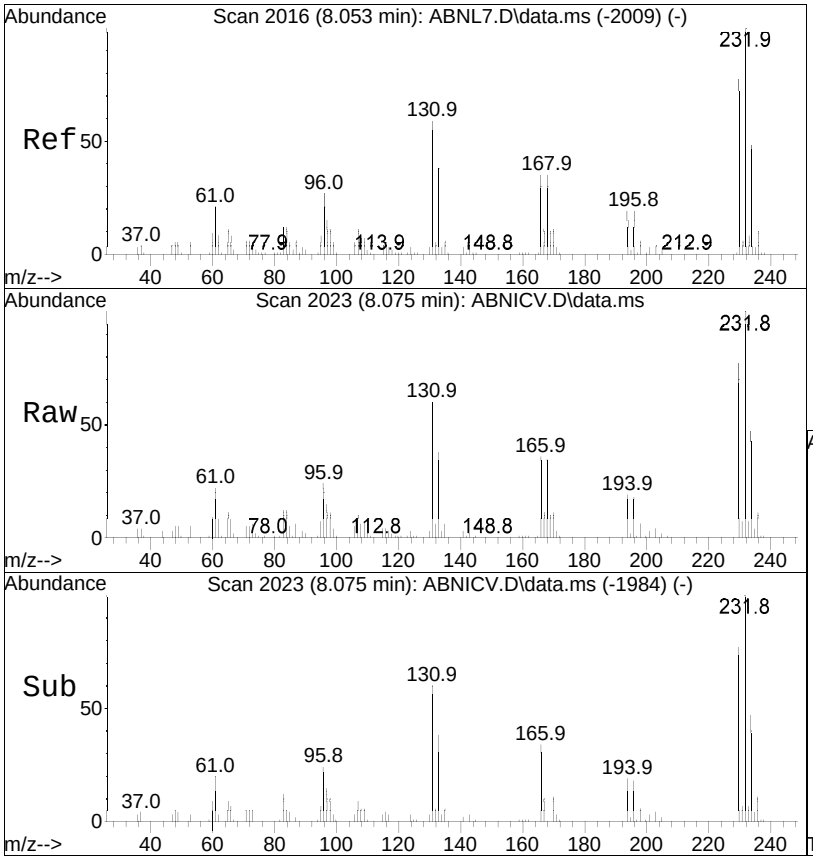


#69
2,3,5,6-Tetrachlorophenol
Concen: 46.64 ug/ml
RT: 8.031 min Scan# 2009
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion:232 Resp: 109531

Ion	Ratio	Lower	Upper
232	100		
230	79.2	63.8	95.8
234	48.3	38.3	57.5

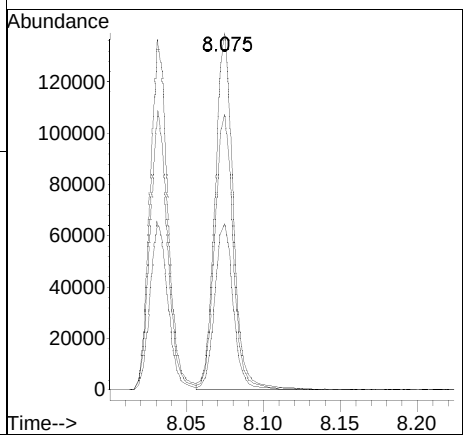


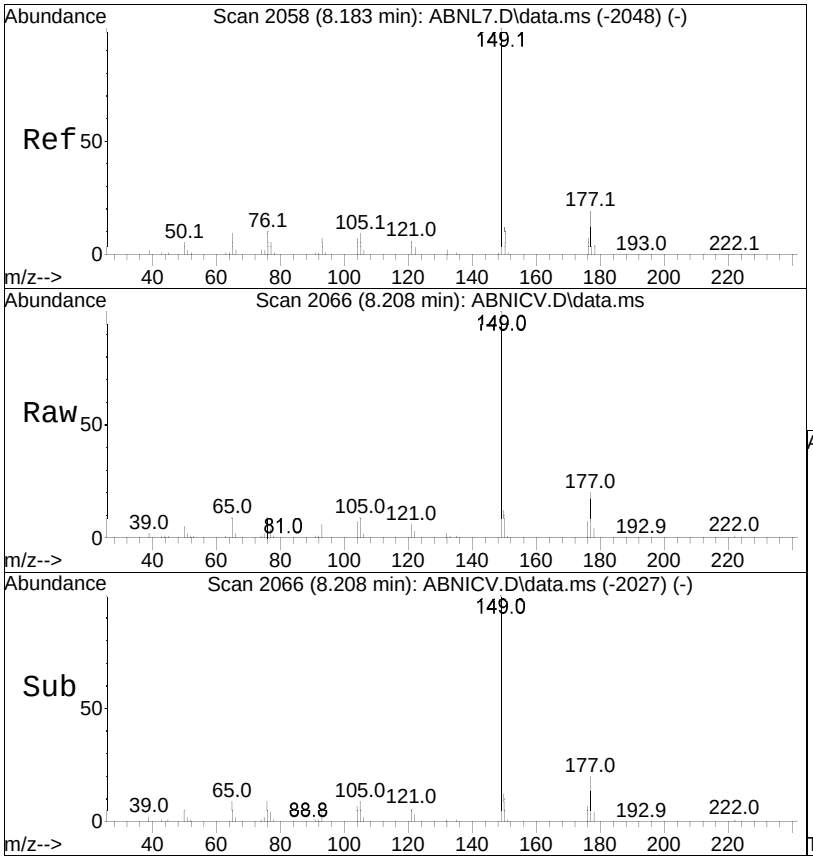


#70
2,3,4,6-Tetrachlorophenol
Concen: 48.37 ug/ml
RT: 8.075 min Scan# 2023
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion:232 Resp: 115249

Ion	Ratio	Lower	Upper
232	100		
230	77.4	63.8	95.8
234	47.9	39.0	58.6

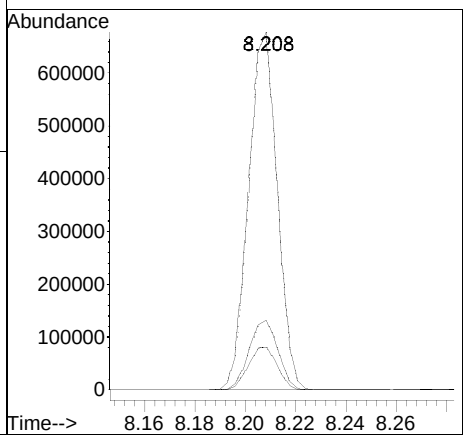


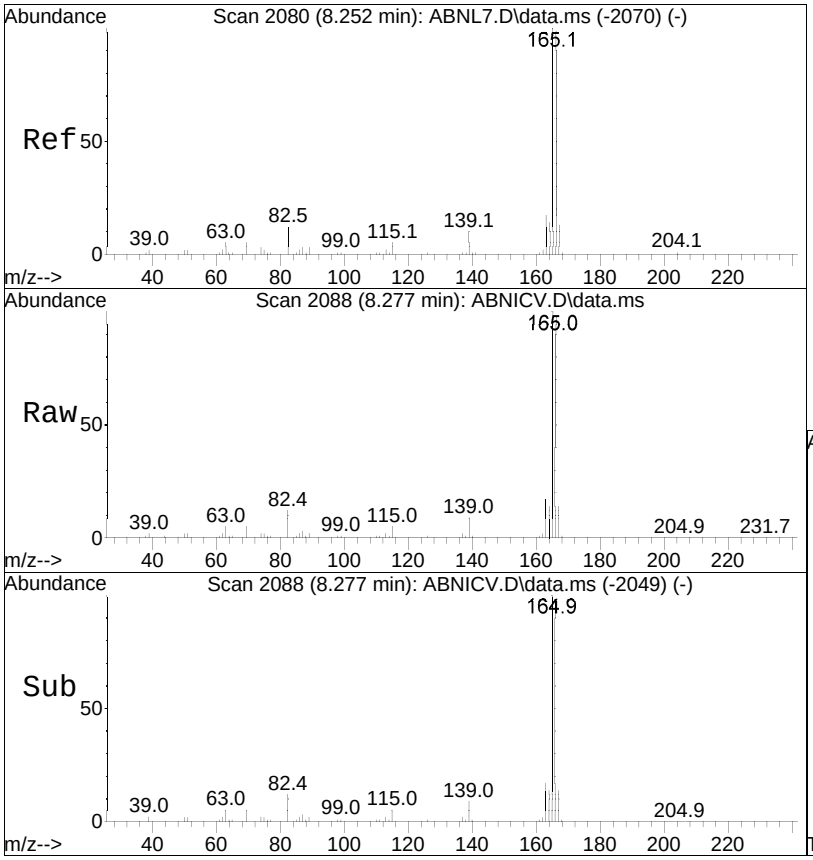


#71
Diethyl phthalate
Concen: 47.70 ug/ml
RT: 8.208 min Scan# 2066
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion:149 Resp: 532040

Ion	Ratio	Lower	Upper
149	100		
177	19.8	15.0	22.6
150	12.2	9.8	14.6

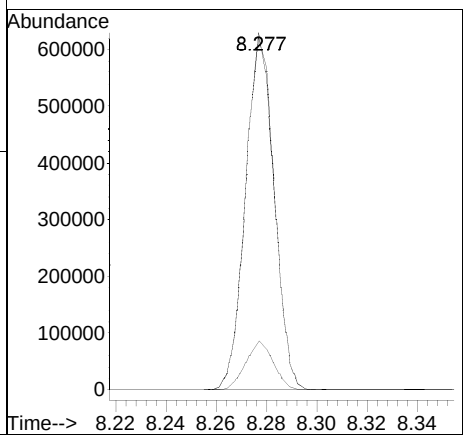


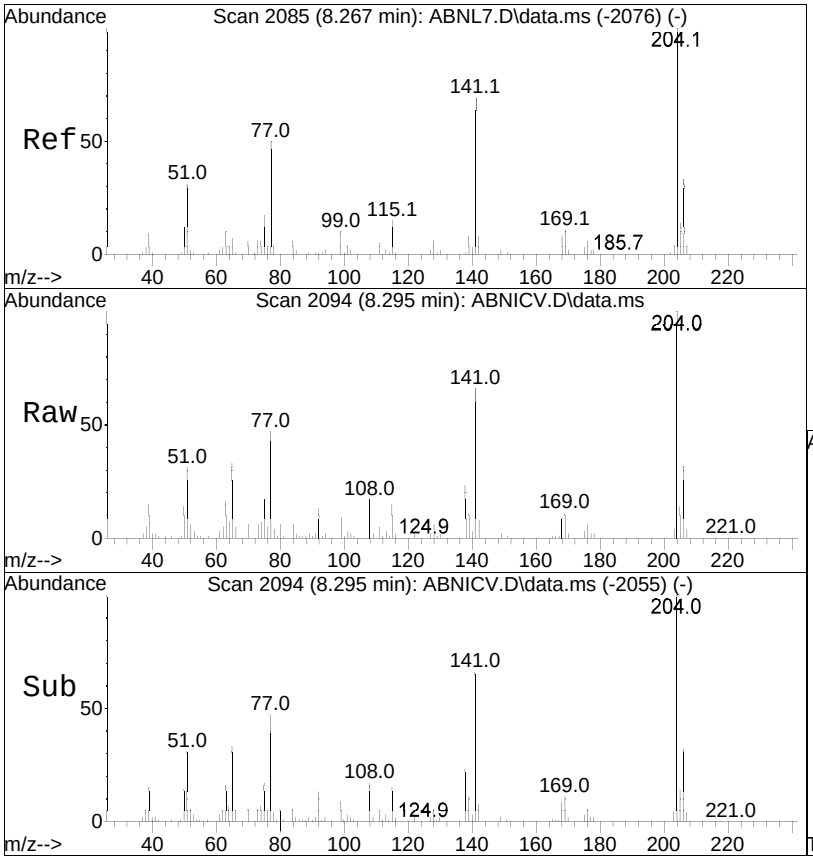


#72
Fluorene
Concen: 48.03 ug/ml
RT: 8.277 min Scan# 2088
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion:166 Resp: 497831

Ion	Ratio	Lower	Upper
166	100		
165	99.7	80.0	120.0
167	13.5	10.7	16.1

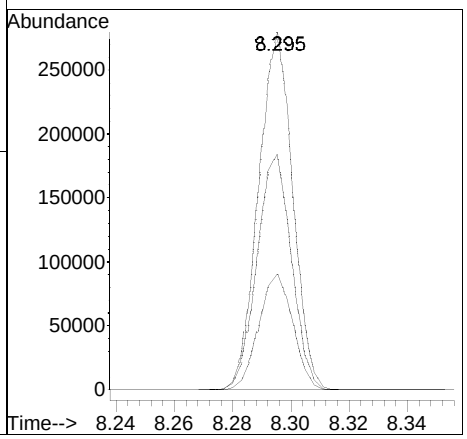


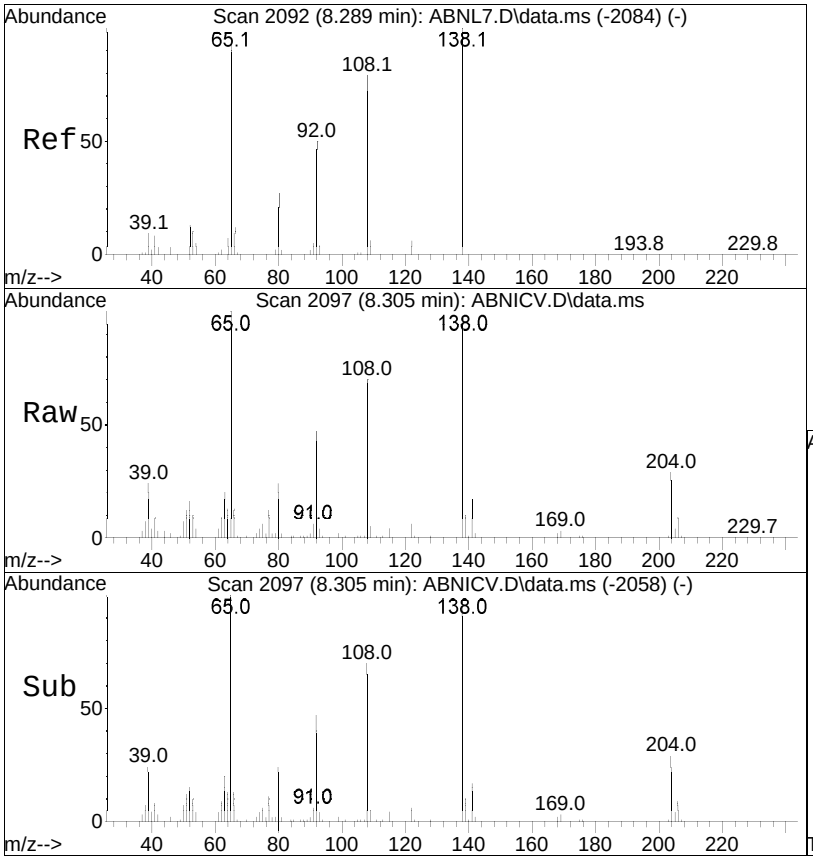


#73
4-Chlorophenyl phenyl ether
Concen: 46.53 ug/ml
RT: 8.295 min Scan# 2094
Delta R.T. -0.004 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion:204 Resp: 226036

Ion	Ratio	Lower	Upper
204	100		
206	32.5	26.3	39.5
141	66.5	58.4	87.6

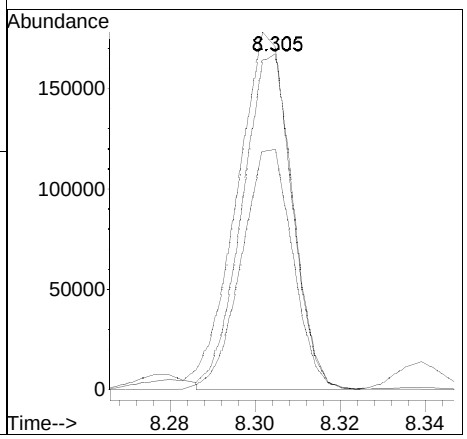


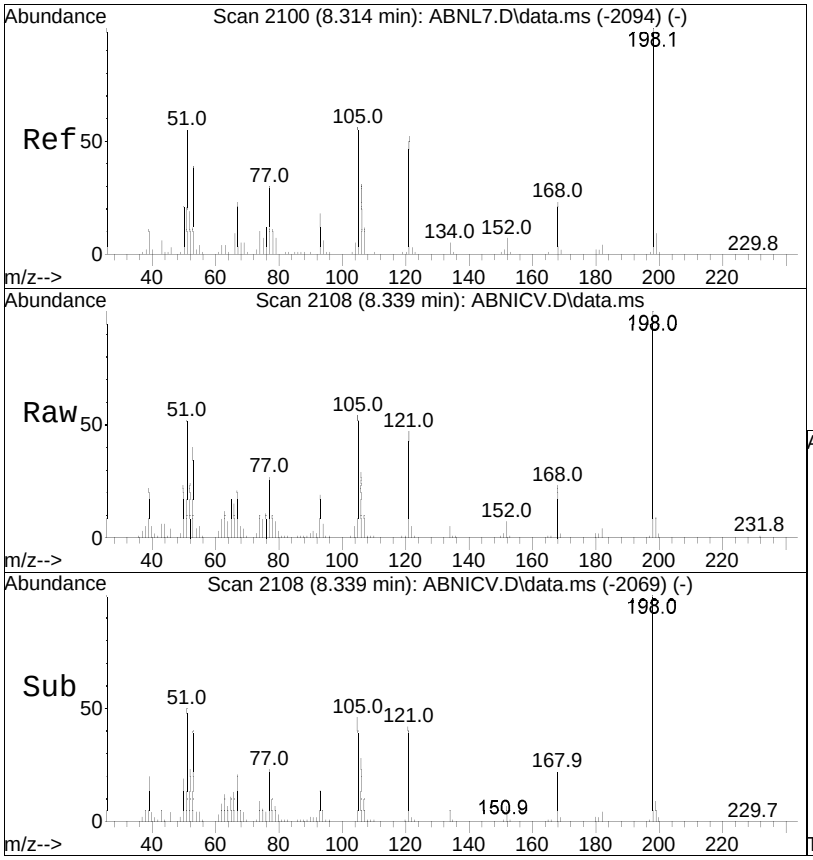


#74
4-Nitroaniline
Concen: 48.59 ug/ml
RT: 8.305 min Scan# 2097
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion:138 Resp: 137910

Ion	Ratio	Lower	Upper
138	100		
108	72.9	59.2	88.8
65	116.6	97.6	146.4

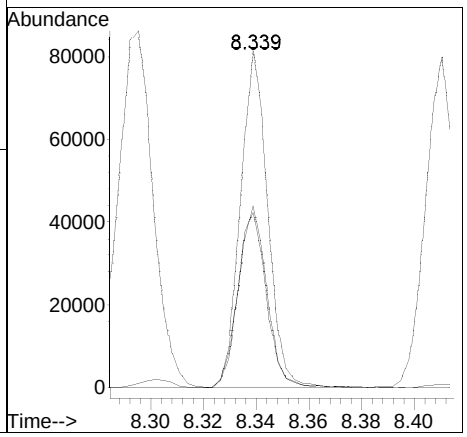


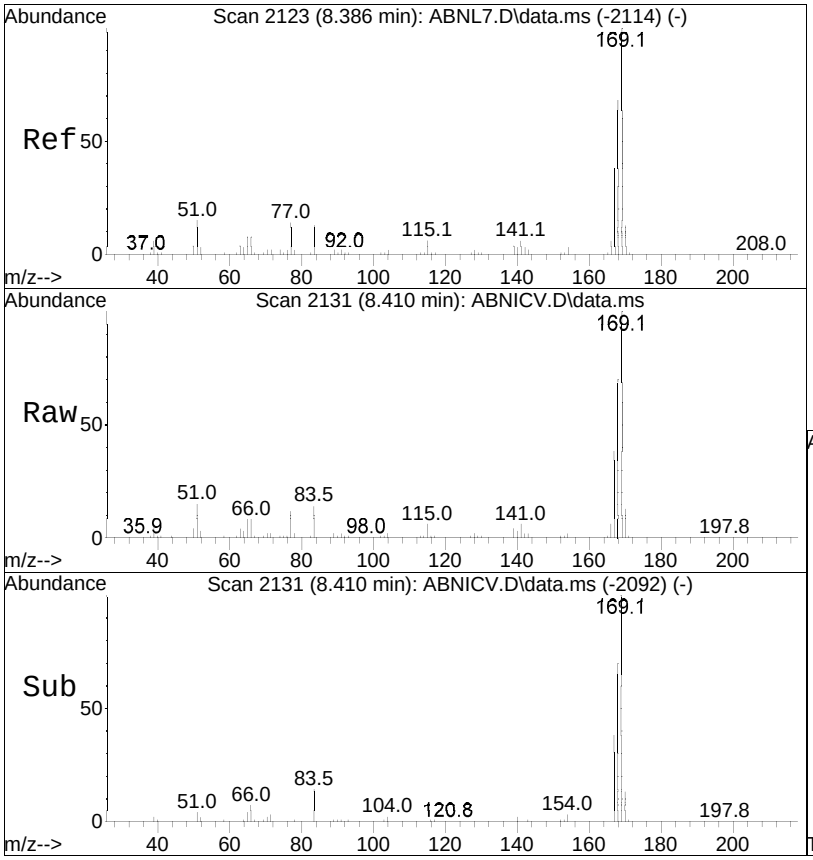


#75
4,6-Dinitro-o-cresol
Concen: 40.90 ug/ml
RT: 8.339 min Scan# 2108
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion:198 Resp: 59009

Ion	Ratio	Lower	Upper
198	100		
51	53.2	49.9	74.9
105	55.7	45.8	68.6

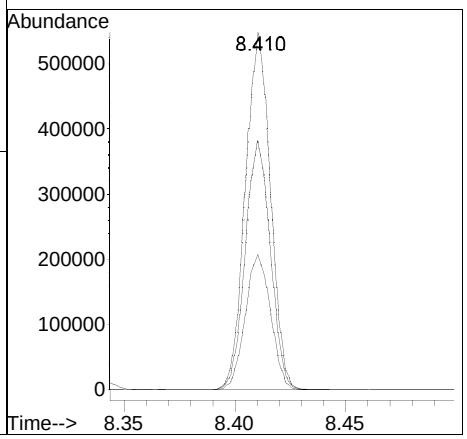


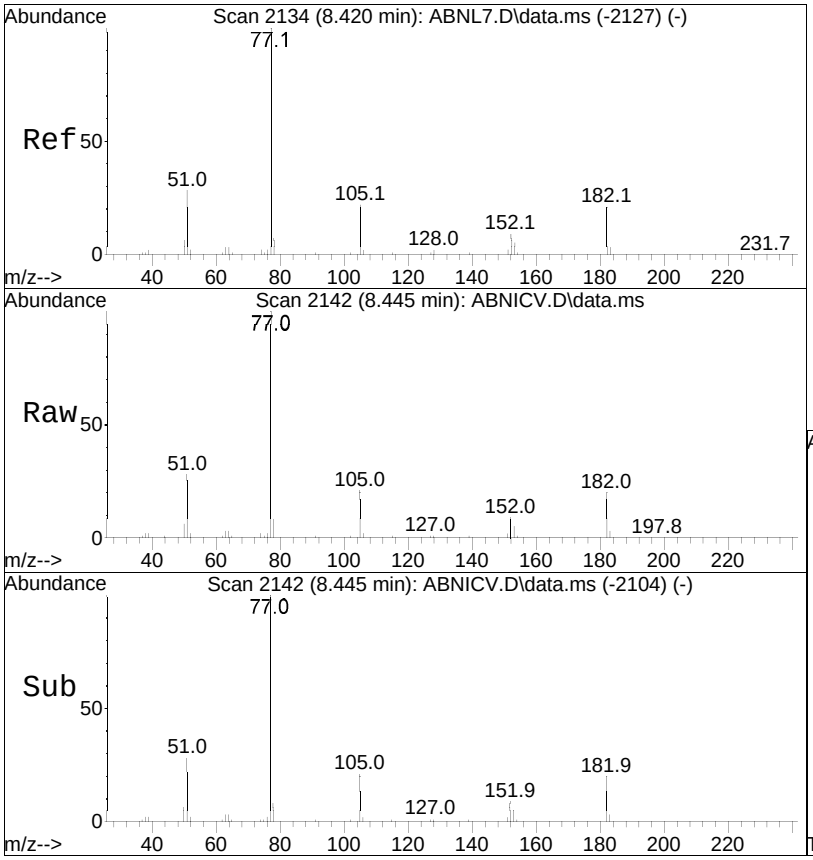


#76
NDPA/DPA
Concen: 48.11 ug/ml
RT: 8.410 min Scan# 2131
Delta R.T. -0.004 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion:169 Resp: 430989

Ion	Ratio	Lower	Upper
169	100		
168	69.8	55.2	82.8
167	38.5	30.4	45.6

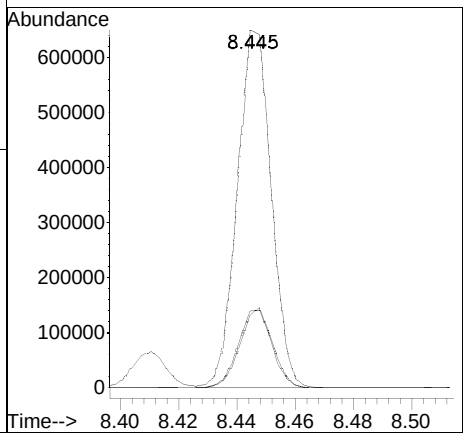


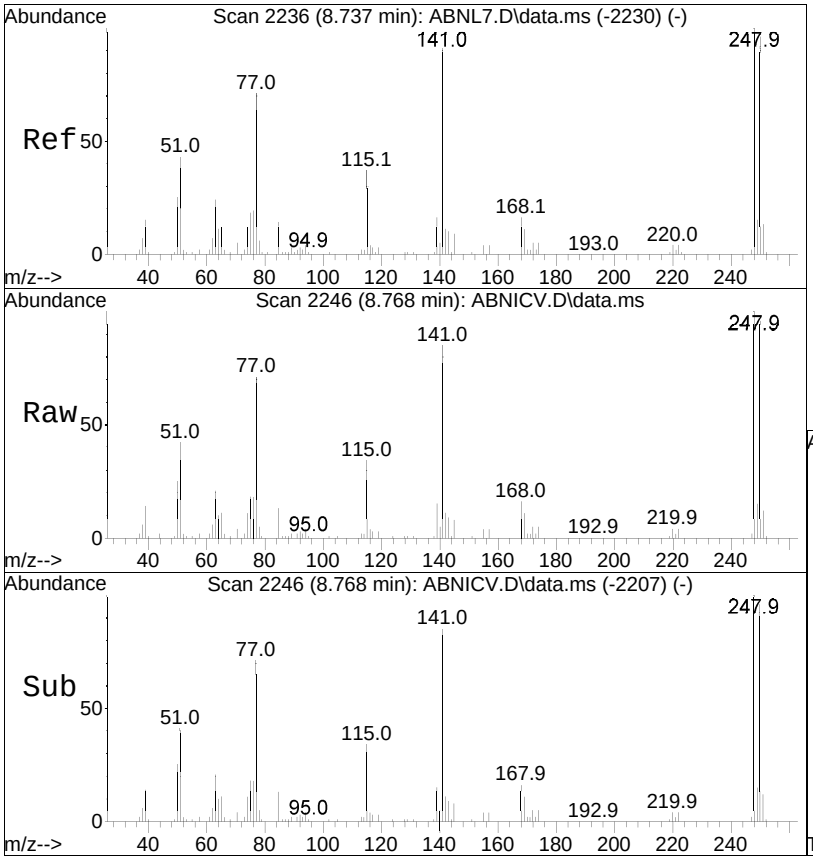


#77
Azobenzene
Concen: 48.90 ug/ml
RT: 8.445 min Scan# 2142
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion: 77 Resp: 520526

Ion	Ratio	Lower	Upper
77	100		
182	21.5	16.2	24.2
105	21.7	17.9	26.9

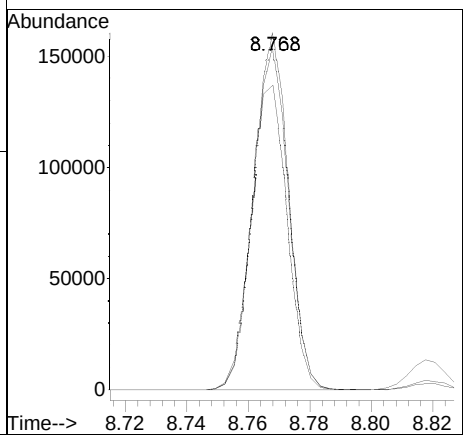


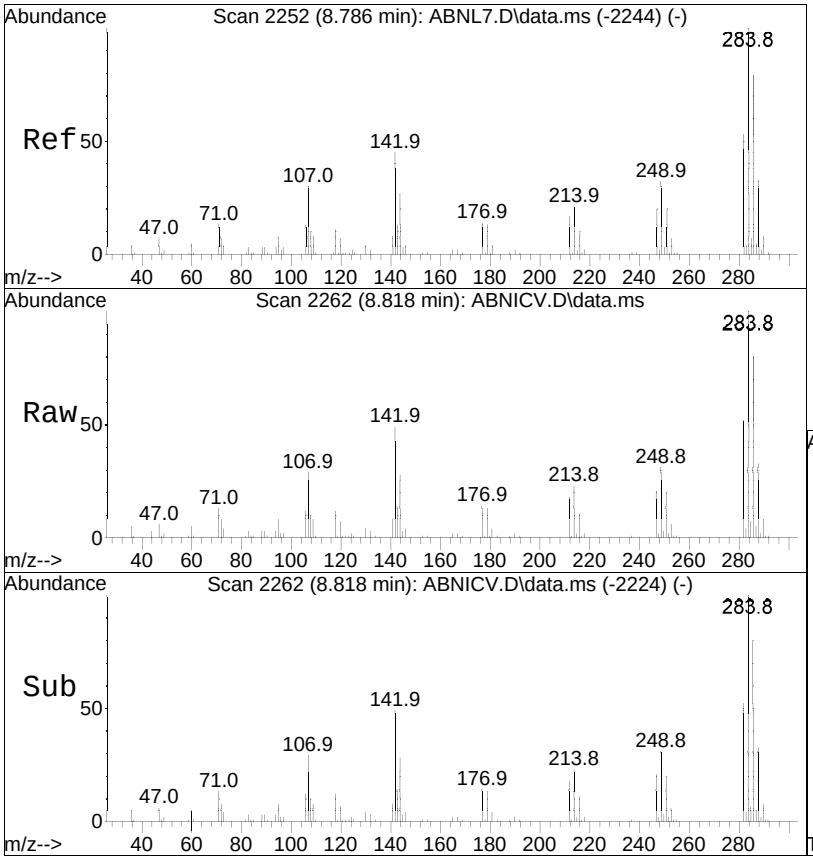


#79
4-Bromophenyl phenyl ether
Concen: 48.28 ug/ml
RT: 8.768 min Scan# 2246
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion:248 Resp: 126642

Ion	Ratio	Lower	Upper
248	100		
141	88.1	74.6	111.8
250	96.1	76.9	115.3

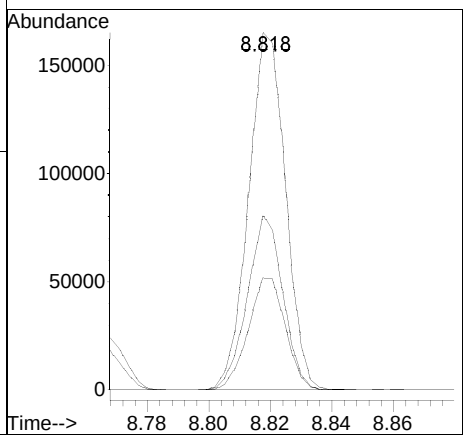


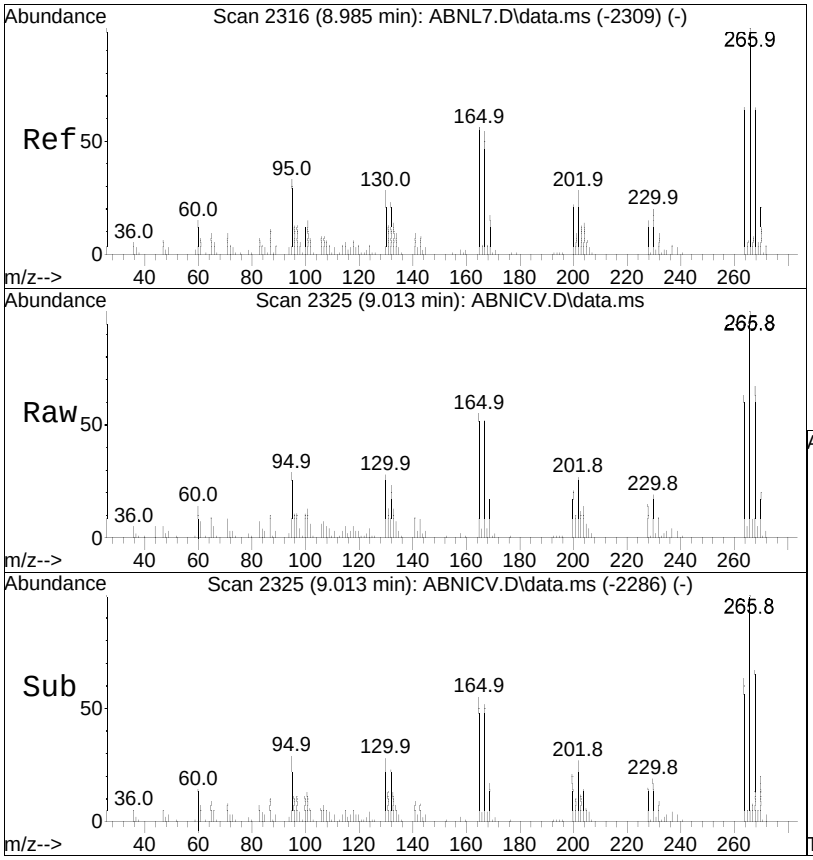


#80
Hexachlorobenzene
Concen: 47.34 ug/ml
RT: 8.818 min Scan# 2262
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion:284 Resp: 137278

Ion	Ratio	Lower	Upper
284	100		
142	47.1	37.6	56.4
249	31.8	25.4	38.2

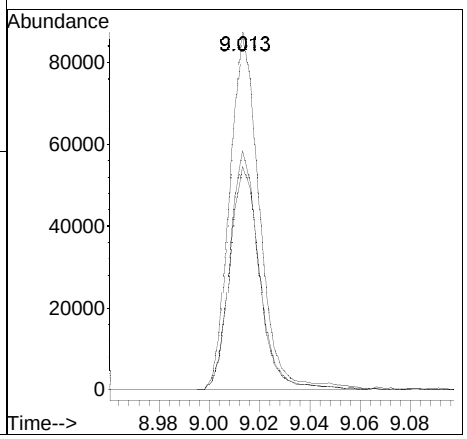


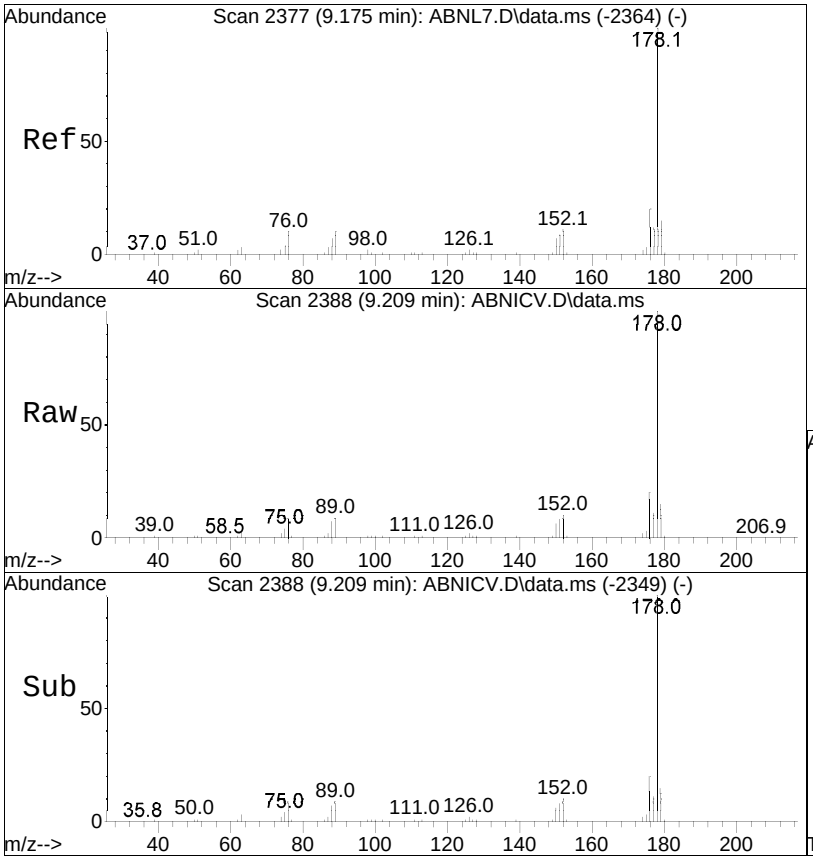


#81
Pentachlorophenol
Concen: 39.04 ug/ml
RT: 9.013 min Scan# 2325
Delta R.T. -0.004 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion:266 Resp: 71802

Ion	Ratio	Lower	Upper
266	100		
264	63.3	50.7	76.1
268	65.9	52.5	78.7

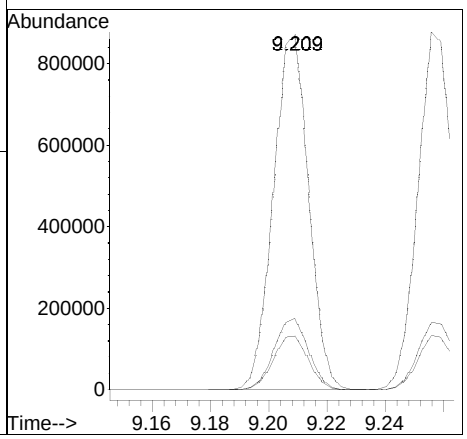


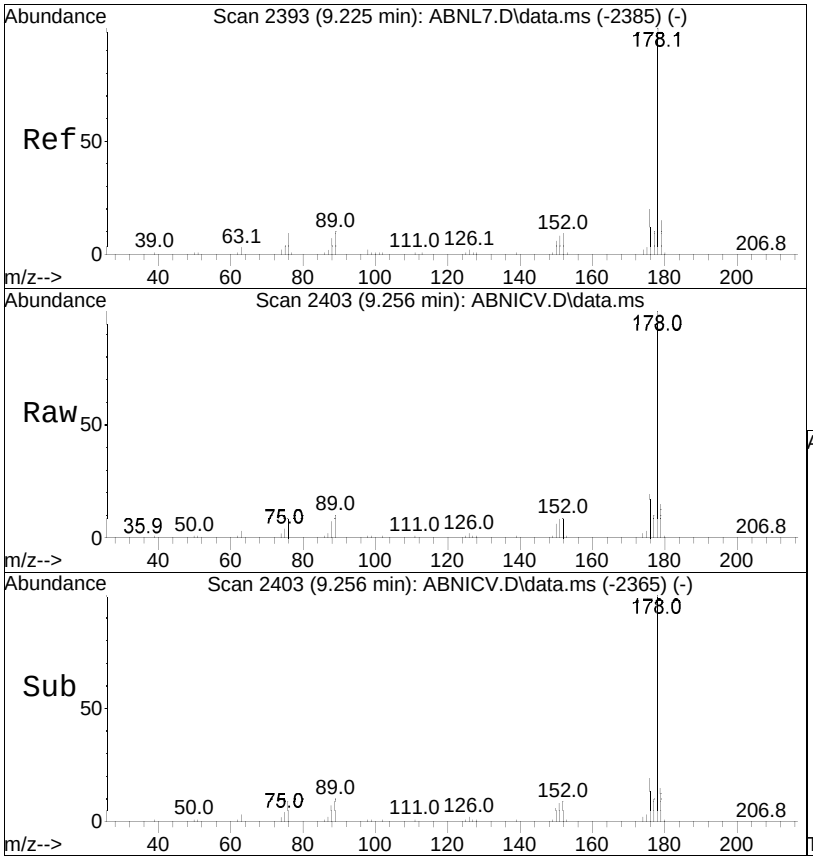


#88
Phenanthrene
Concen: 46.07 ug/ml
RT: 9.209 min Scan# 2388
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion:178 Resp: 732830

Ion	Ratio	Lower	Upper
178	100		
179	15.2	12.3	18.5
176	19.7	15.4	23.2

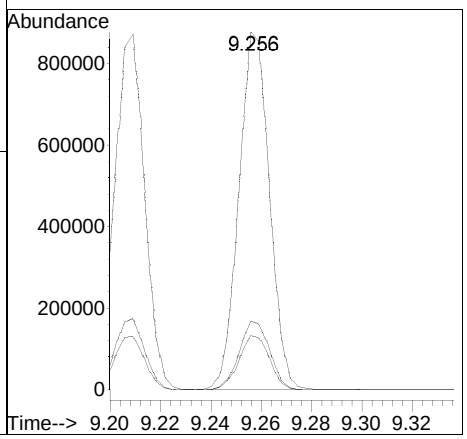


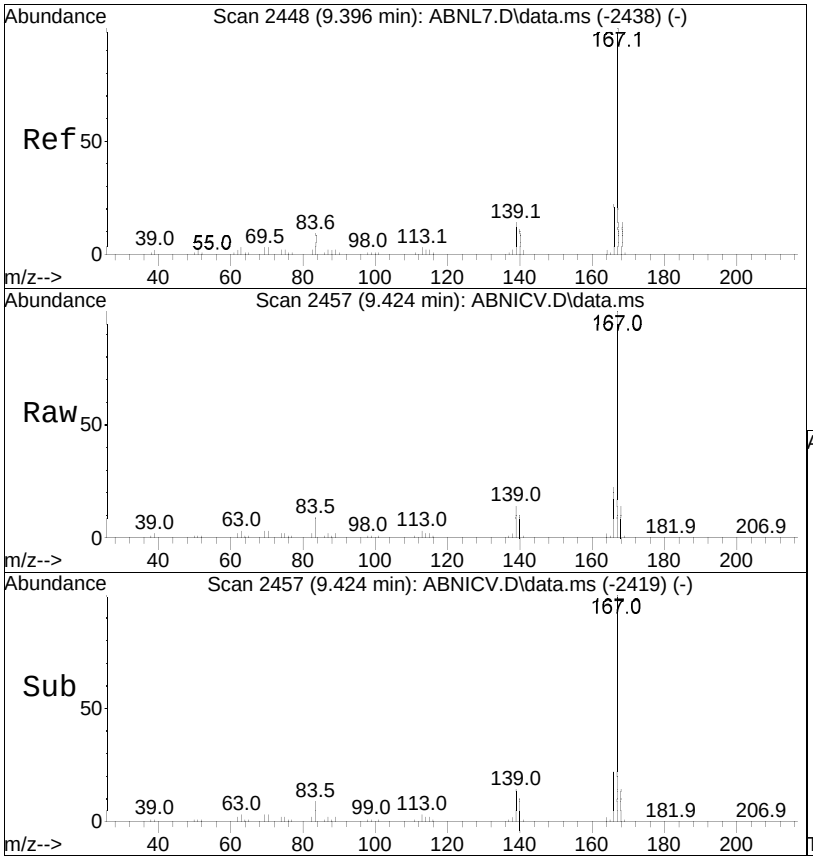


#89
Anthracene
Concen: 47.73 ug/ml
RT: 9.256 min Scan# 2403
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion:178 Resp: 738930

Ion	Ratio	Lower	Upper
178	100		
179	15.2	12.2	18.2
176	19.2	15.1	22.7

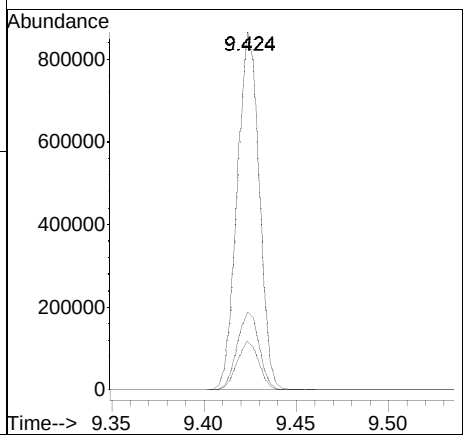


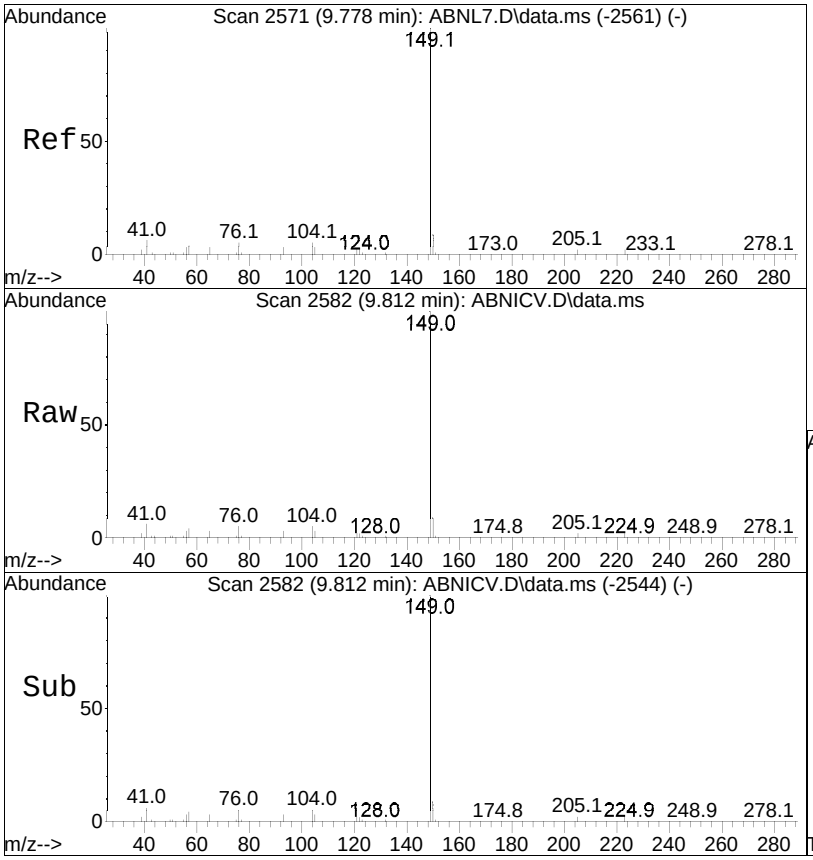


#90
Carbazole
Concen: 48.34 ug/ml
RT: 9.424 min Scan# 2457
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion:167 Resp: 713507

Ion	Ratio	Lower	Upper
167	100		
168	13.6	10.8	16.2
166	21.9	17.7	26.5

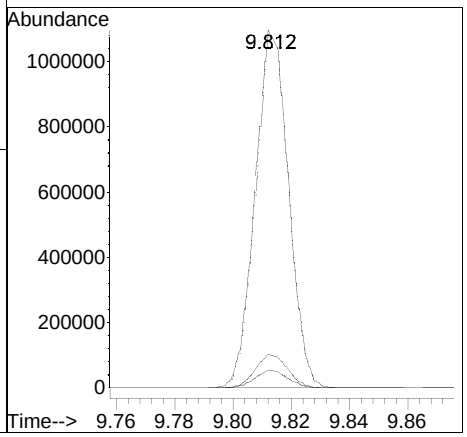


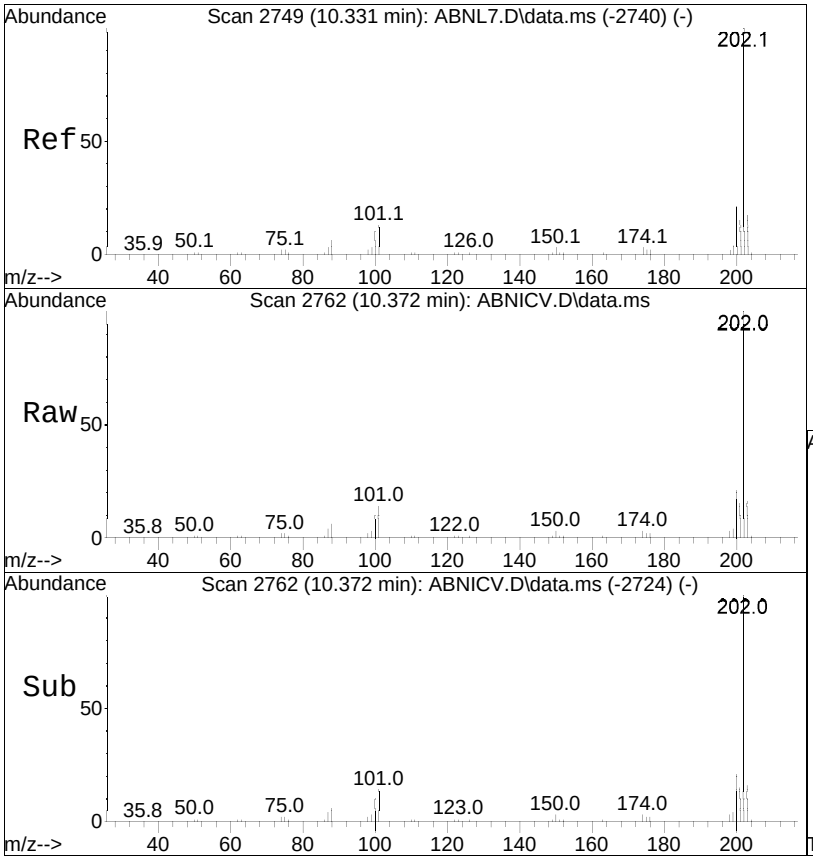


#91
Di-n-butylphthalate
Concen: 50.38 ug/ml
RT: 9.812 min Scan# 2582
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion:149 Resp: 859428

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.3	10.9
104	5.0	4.0	6.0

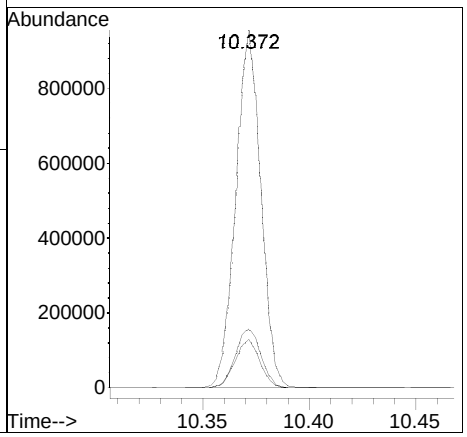


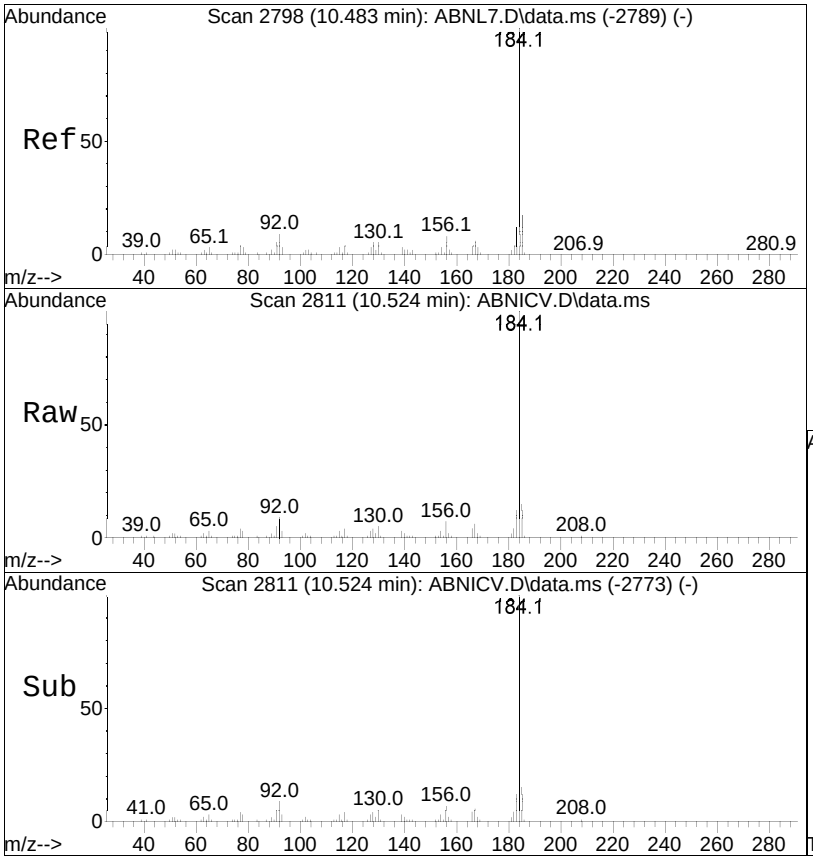


#92
Fluoranthene
Concen: 48.64 ug/ml
RT: 10.372 min Scan# 2762
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion:202 Resp: 770694

Ion	Ratio	Lower	Upper
202	100		
101	13.7	11.2	16.8
203	17.1	13.7	20.5

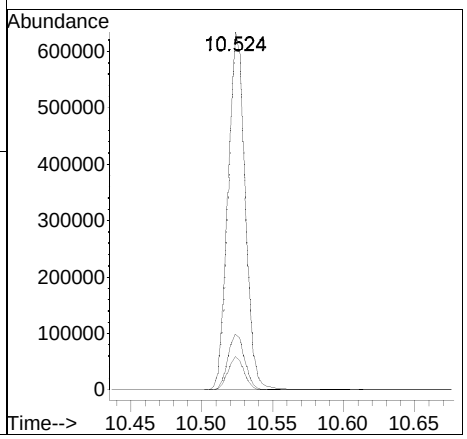


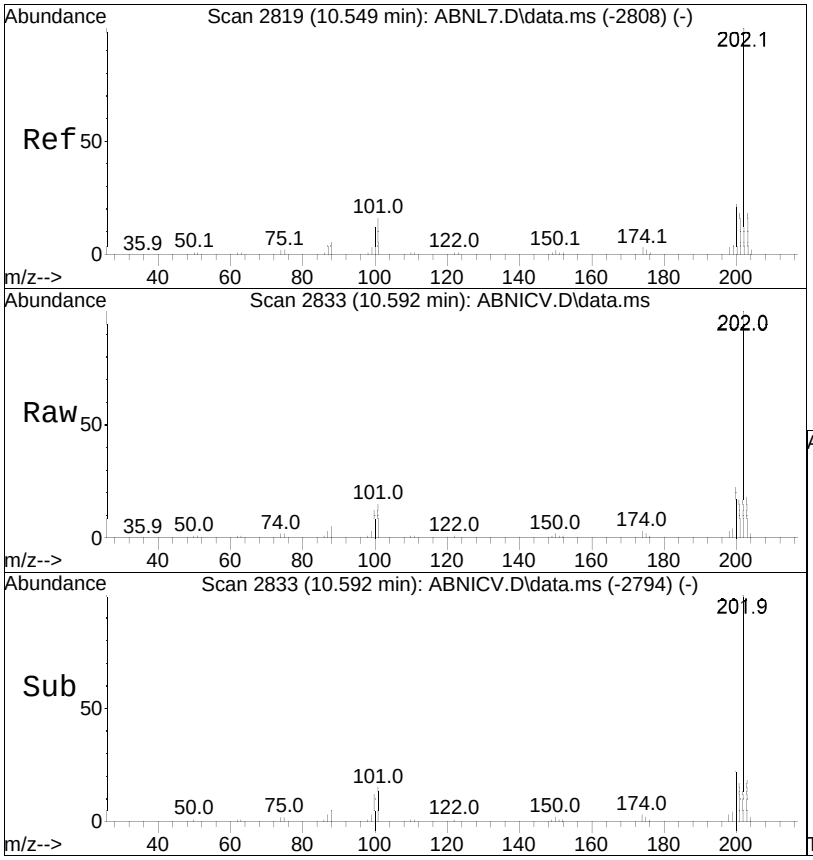


#93
Benzidine
Concen: 48.50 ug/ml
RT: 10.524 min Scan# 2811
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion:184 Resp: 527550

Ion	Ratio	Lower	Upper
184	100		
92	9.1	7.3	10.9
185	15.6	11.8	17.8

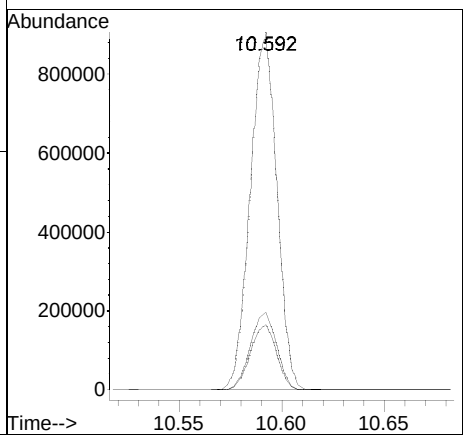


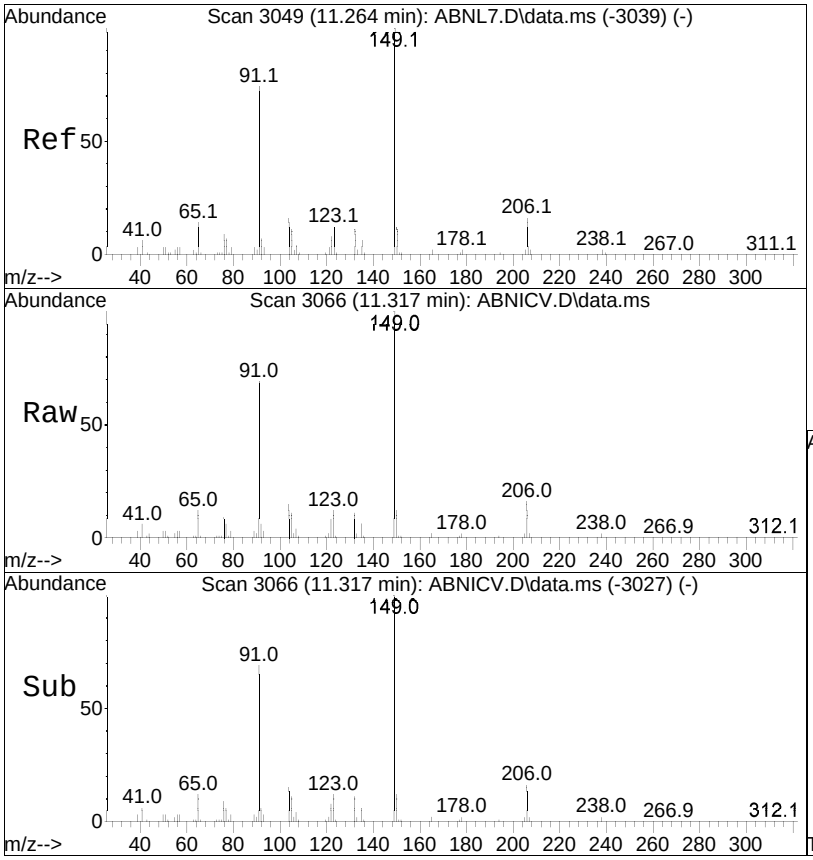


#94
Pyrene
Concen: 48.10 ug/ml
RT: 10.592 min Scan# 2833
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion:202 Resp: 806011

Ion	Ratio	Lower	Upper
202	100		
200	21.6	16.9	25.3
203	18.1	14.3	21.5

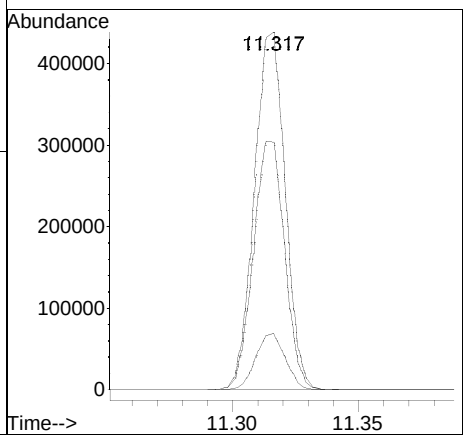


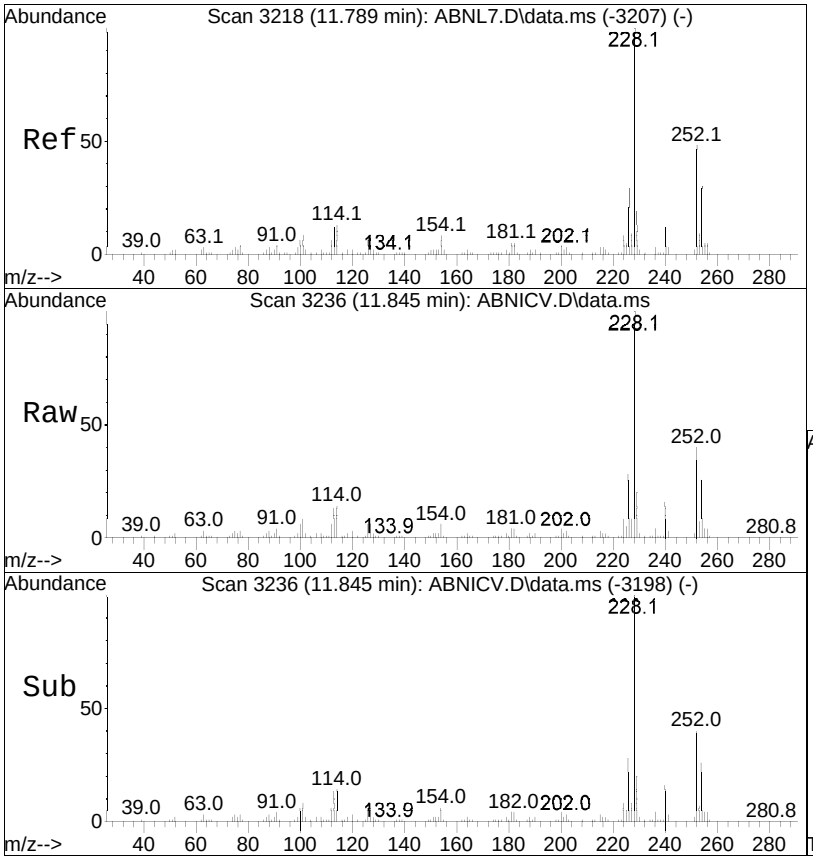


#96
Butyl benzyl phthalate
Concen: 46.18 ug/ml
RT: 11.317 min Scan# 3066
Delta R.T. -0.003 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion:149 Resp: 368462

Ion	Ratio	Lower	Upper
149	100		
91	70.8	57.9	86.9
206	15.4	11.9	17.9

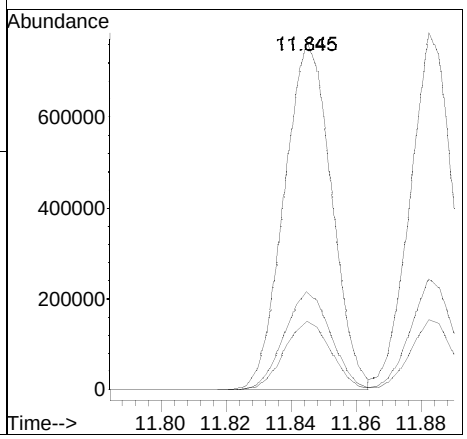


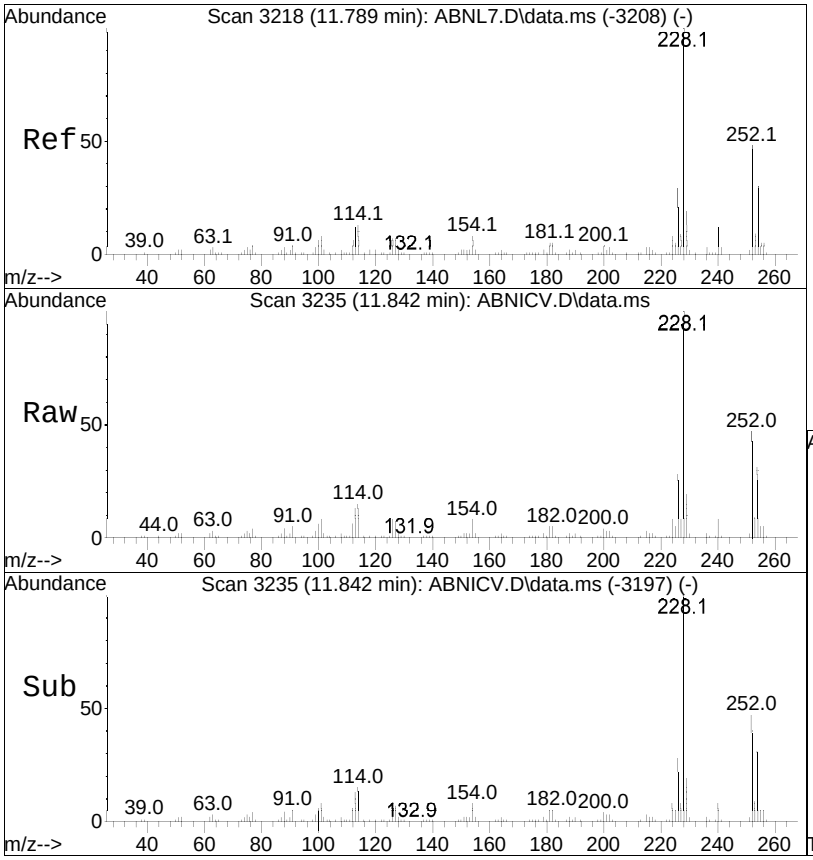


#104
Benzo(a)anthracene
Concen: 48.31 ug/ml
RT: 11.845 min Scan# 3236
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion:228 Resp: 773813

Ion	Ratio	Lower	Upper
228	100		
226	27.8	22.6	34.0
229	19.5	15.8	23.6

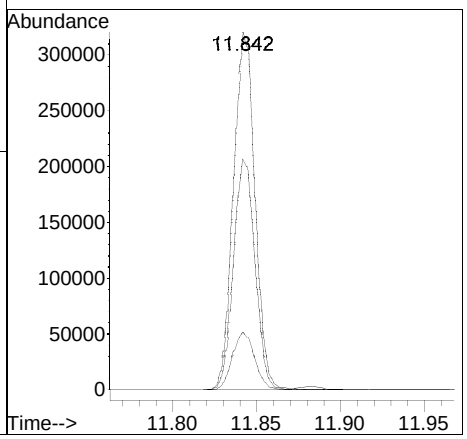


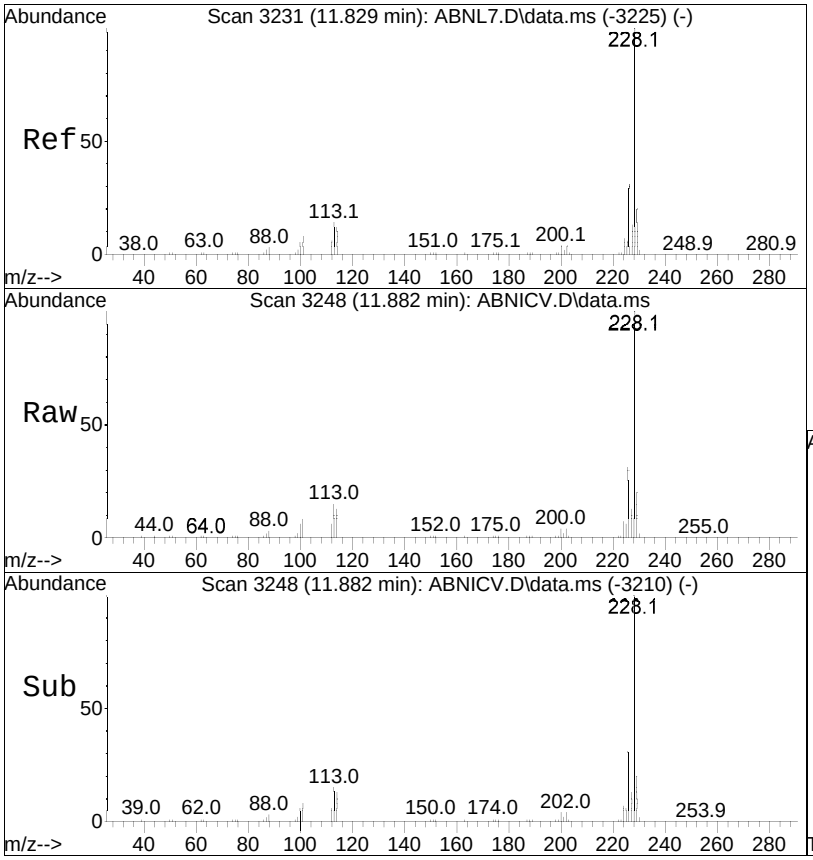


#105
3,3'-Dichlorobenzidine
Concen: 48.72 ug/ml
RT: 11.842 min Scan# 3235
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion:252 Resp: 284561

Ion	Ratio	Lower	Upper
252	100		
126	16.9	12.6	19.0
254	64.4	51.1	76.7

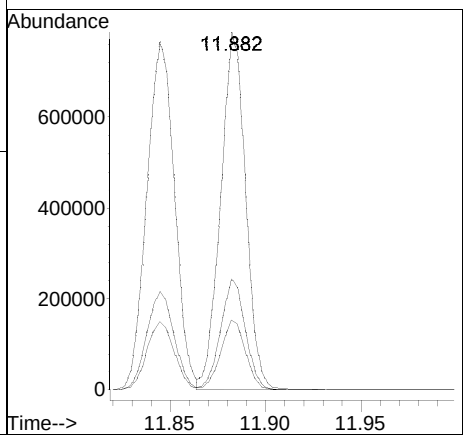


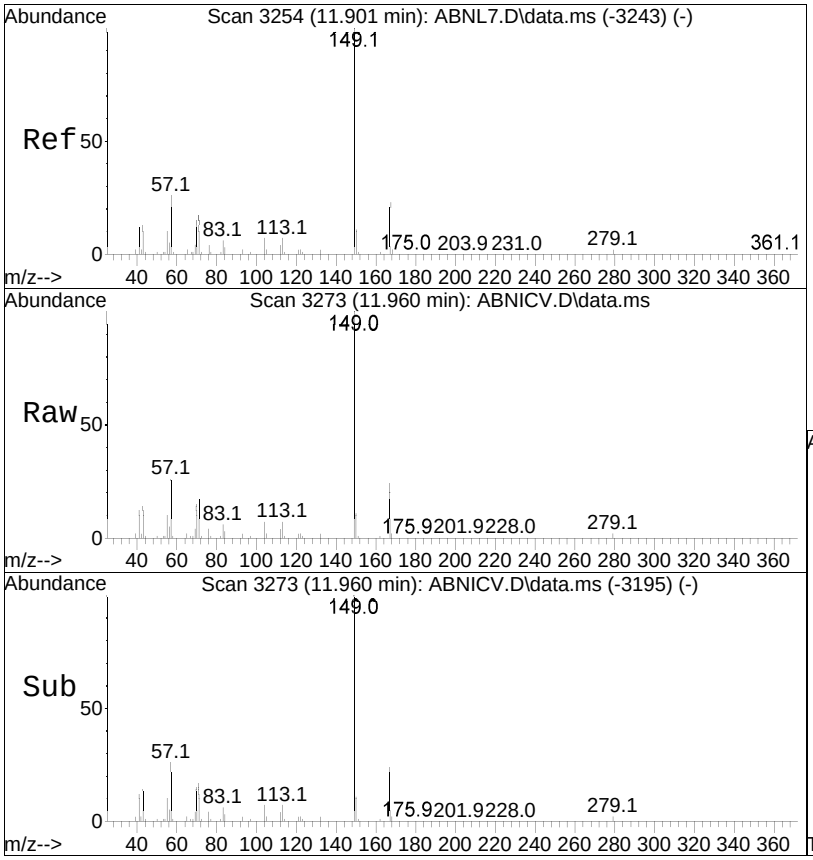


#106
Chrysene
Concen: 46.24 ug/ml
RT: 11.882 min Scan# 3248
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion:228 Resp: 715891

Ion	Ratio	Lower	Upper
228	100		
226	30.7	24.7	37.1
229	19.5	15.5	23.3

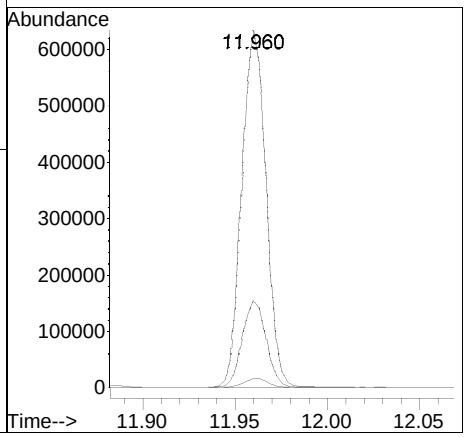


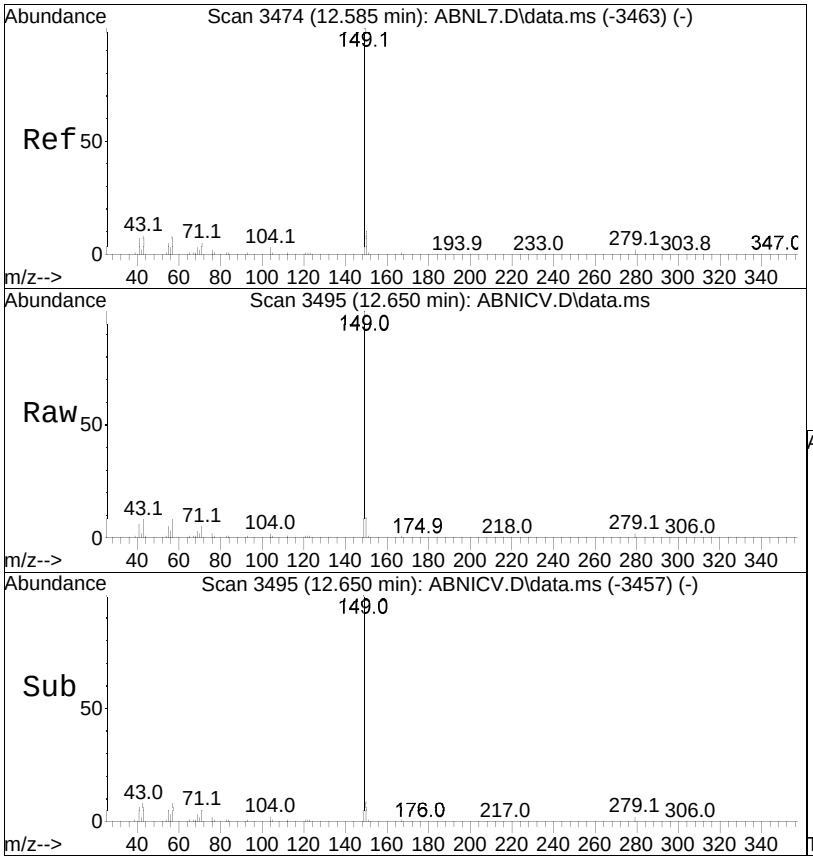


#107
Bis(2-ethylhexyl)phthalate
Concen: 44.16 ug/ml
RT: 11.960 min Scan# 3273
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion:149 Resp: 571484

Ion	Ratio	Lower	Upper
149	100		
167	24.3	18.4	27.6
279	2.3	1.7	2.5

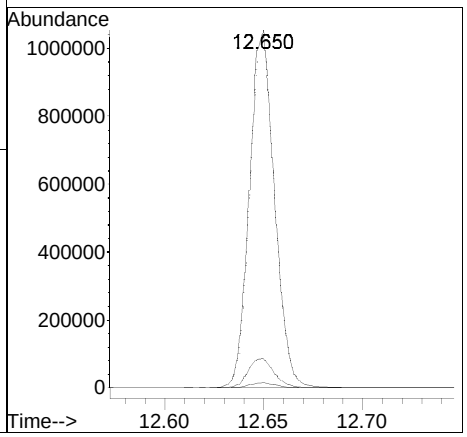


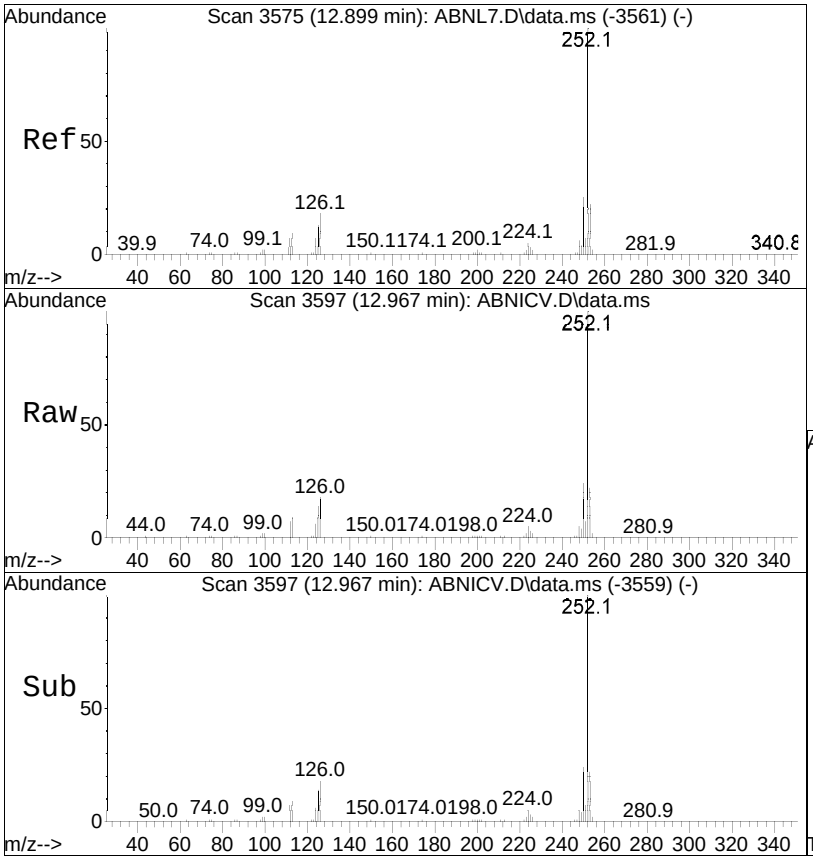


#108
Di-n-octylphthalate
Concen: 41.48 ug/ml
RT: 12.650 min Scan# 3495
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion:149 Resp: 914829

Ion	Ratio	Lower	Upper
149	100		
43	8.6	8.2	12.2
167	1.4	1.1	1.7

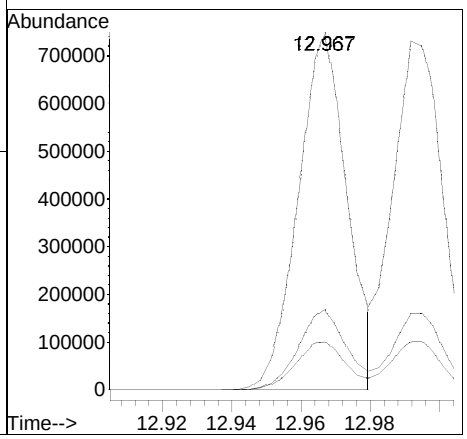


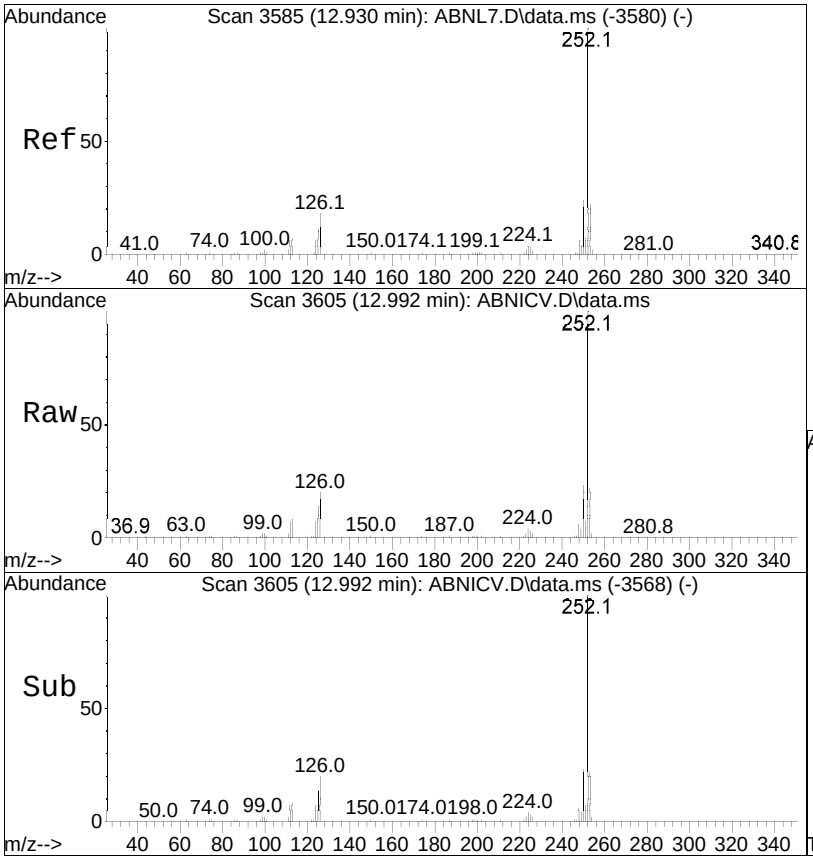


#109
Benzo(b)fluoranthene
Concen: 51.56 ug/ml
RT: 12.967 min Scan# 3597
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion:252 Resp: 734525

Ion	Ratio	Lower	Upper
252	100		
125	14.1	11.3	16.9
253	22.2	17.8	26.8

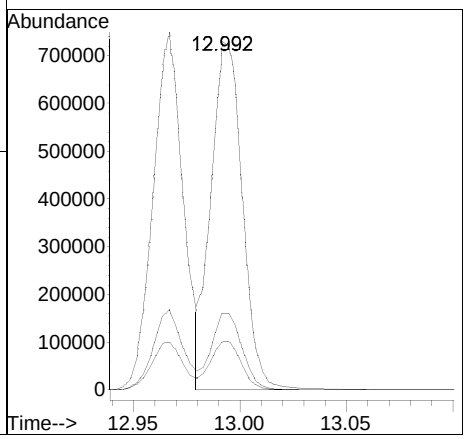


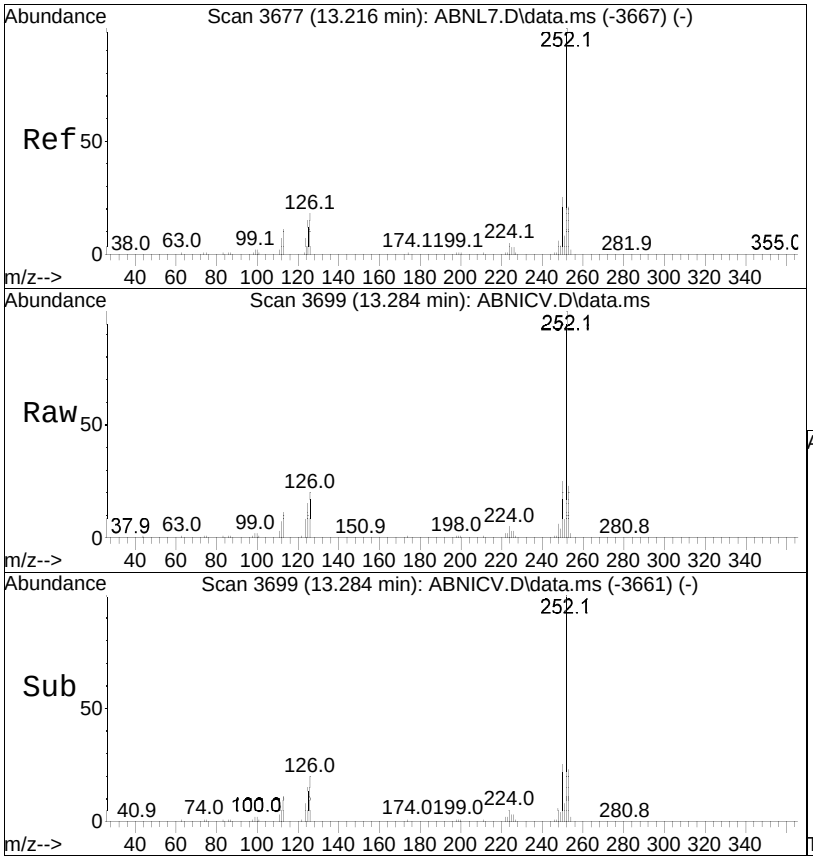


#110
Benzo(k)fluoranthene
Concen: 50.47 ug/ml
RT: 12.992 min Scan# 3605
Delta R.T. -0.009 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion:252 Resp: 742363

Ion	Ratio	Lower	Upper
252	100		
125	13.7	11.5	17.3
253	21.7	17.6	26.4

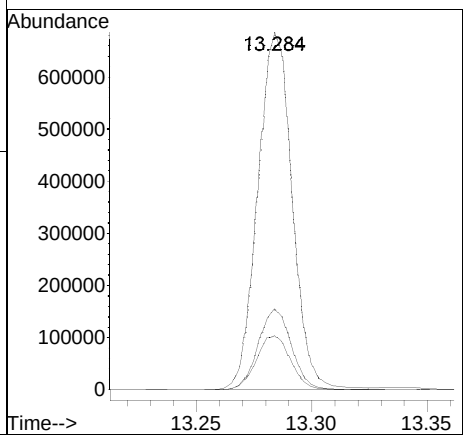


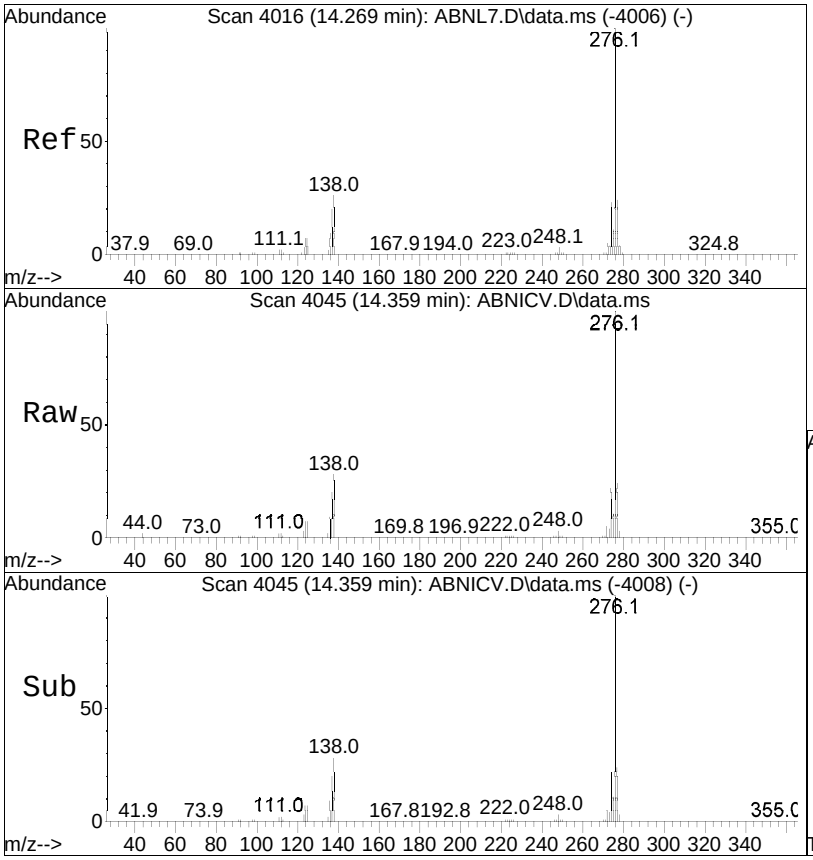


#111
Benzo(a)pyrene
Concen: 50.82 ug/ml
RT: 13.284 min Scan# 3699
Delta R.T. -0.006 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion:252 Resp: 705355

Ion	Ratio	Lower	Upper
252	100		
125	15.3	12.6	18.8
253	22.1	17.5	26.3

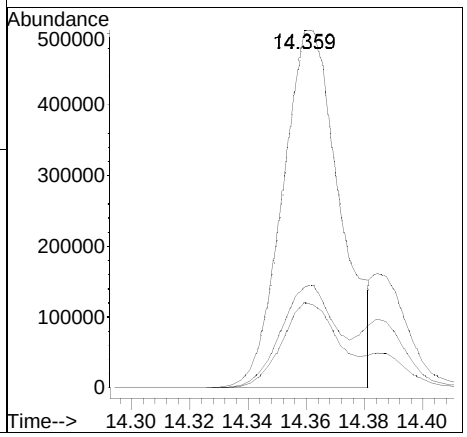


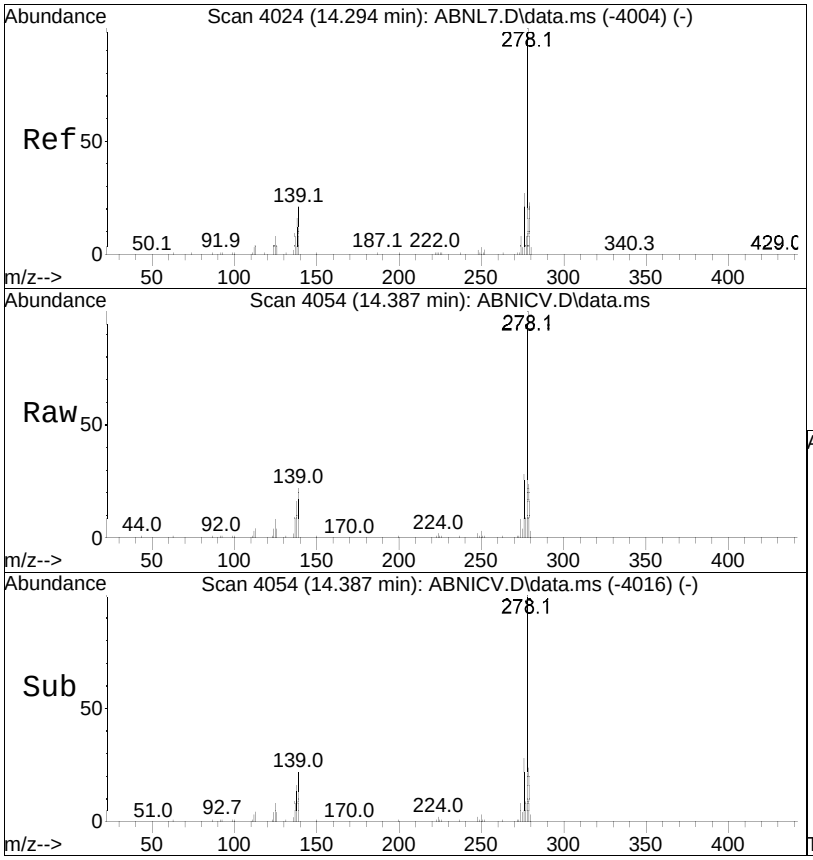


#113
Indeno(1,2,3-cd)pyrene
Concen: 50.88 ug/mL
RT: 14.359 min Scan# 4045
Delta R.T. -0.010 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion:276 Resp: 693945

Ion	Ratio	Lower	Upper
276	100		
138	27.4	22.1	33.1
277	23.4	19.0	28.6

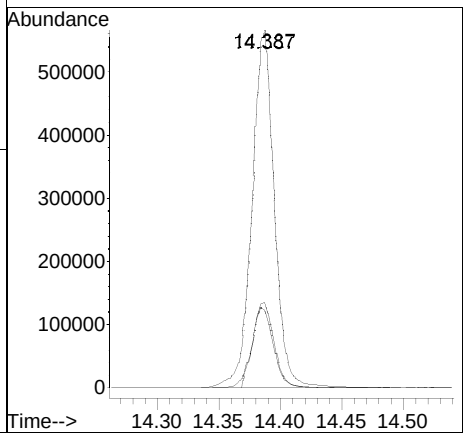


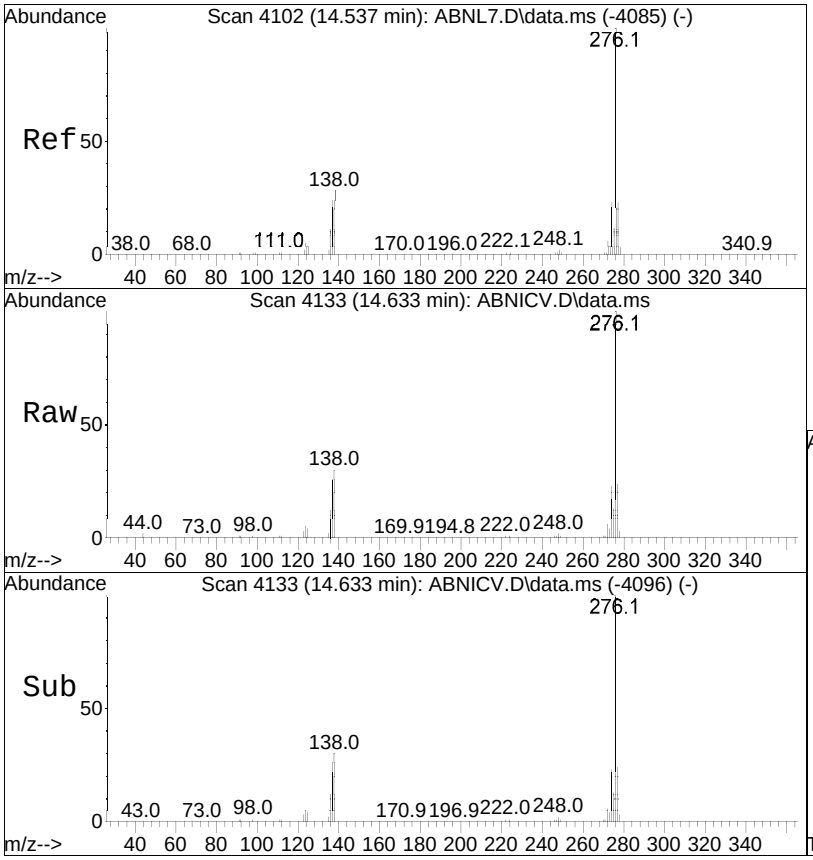


#114
Dibenzo(a,h)anthracene
Concen: 51.38 ug/ml
RT: 14.387 min Scan# 4054
Delta R.T. -0.007 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion:278 Resp: 708544

Ion	Ratio	Lower	Upper
278	100		
139	21.5	17.8	26.8
279	23.6	19.2	28.8

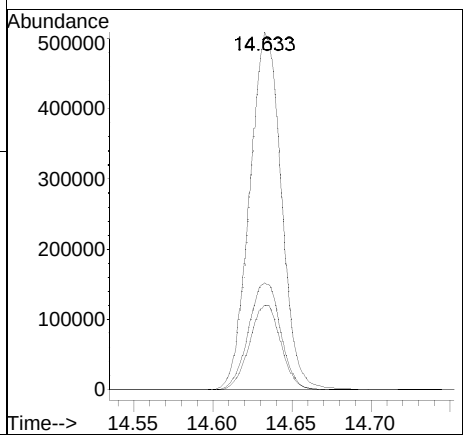




#115
Benzo(ghi)perylene
Concen: 51.06 ug/ml
RT: 14.633 min Scan# 4133
Delta R.T. -0.009 min
Lab File: ABNICV.D
Acq: 06 Dec 2018 04:46 am

Tgt Ion:276 Resp: 704519

Ion	Ratio	Lower	Upper
276	100		
138	30.8	29.0	43.6
277	23.9	18.6	27.8



Manual Integration Report

Data Path	: I:\8270\SV112\181205ical\	QMethod	: FS181205SV112.m
Data File	: ABNICV.D	Operator	: sv112:cb
Date Inj'd	: 12/6/2018 4:46 am	Instrument	: SV112
Sample	: CQICV1,32,,ABN ICV LOT# Lo	Quant Date	: 12/6/2018 1:31 pm

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV112\181205ical\
Data File : AP9ICV.D
Acq On : 06 Dec 2018 05:12 am
Operator : sv112:cb
Sample : CQICV2,32,,AP9 ICV LOT# Lot#7798
Misc : WG1186464,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 06 14:19:20 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 14:19:10 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
27	I	IS2_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
28	T	Benzaldehyde	1.182	1.117	5.5	94	0.00
29	T	Acetophenone	1.980	1.864	5.9	93	0.00
30	T	m-Toluidine	1.888	1.846	2.2	93	0.00
31	T	2-Chloroaniline	1.754	1.668	4.9	93	0.00
54	I	IS2_Naphthalene-d8	1.000	1.000	0.0	99	0.00
55	T	a-Terpineol	0.250	0.244	2.4	92	0.00
56	T	3-Chloroaniline	0.132	0.126	4.5	94	0.00
57	T	2,6-Dichlorophenol	0.249	0.250	-0.4	93	0.00
58	T	1-chloro-2-nitrobenzene	0.128	0.124	3.1	92	0.00
59	T	Caprolactam	0.130	0.132	-1.5	91	0.00
60	T	1,2,4,5-Tetrachlorobenzene	0.271	0.252	7.0	96	0.00
61	T	Biphenyl	0.771	0.726	5.8	94	0.00
82	I	IS2_Acenaphthene-d10	1.000	1.000	0.0	97	0.00
83	T	Dichloran	* 50.000	43.527	12.9	91	0.00
84	T	Pentachloronitrobenzene	0.134	0.136	-1.5	91	0.00
97	I	IS2_Phenanthrene-d10	1.000	1.000	0.0	97	0.00
98	T	Diphenamid	0.458	0.487	-6.3	89	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181205ical\
Data File : AP9ICV.D
Acq On : 06 Dec 2018 05:12 am
Operator : sv112:cb
Sample : CQICV2,32,,AP9 ICV LOT# Lot#7798
Misc : WG1186464,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 06 14:19:20 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 14:19:10 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\181205ical\AP9L7.D
Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.780	152	171086	40.000	ug/ml	0.00
Standard Area 1 = 171382			Recovery =	99.83%		
54) IS2_Naphthalene-d8	6.026	136	691230	40.000	ug/ml	0.00
Standard Area 1 = 698941			Recovery =	98.90%		
82) IS2_Acenaphthene-d10	7.742	164	335153	40.000	ug/ml	0.00
Standard Area 1 = 344549			Recovery =	97.27%		
97) IS2_Phenanthrene-d10	9.184	188	584436	40.000	ug/ml	0.00
Standard Area 1 = 605264			Recovery =	96.56%		
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.345	105	238811	47.233	ug/ml	99
29) Acetophenone	5.184	105	398574	47.069	ug/ml	95
30) m-Toluidine	5.265	106	394744	48.890	ug/ml	100
31) 2-Chloroaniline	5.625	127	356780	47.568	ug/ml	98
55) a-Terpineol	6.082	59	210976	48.761	ug/ml	91
56) 3-Chloroaniline	6.095	65	109248	47.725	ug/ml	89
57) 2,6-Dichlorophenol	6.123	162	215859	50.199	ug/ml	94
58) 1-chloro-2-nitrobenzene	6.378	111	107379	48.543	ug/ml	98
59) Caprolactam	6.421	55	113889	50.549	ug/ml#	90
60) 1,2,4,5-Tetrachloroben...	6.900	216	218087	46.516	ug/ml	99
61) Biphenyl	7.192	154	626954	47.079	ug/ml	99
83) Dichloran	8.877	206	56075	43.527	ug/ml	91
84) Pentachloronitrobenzene	9.029	237	56811	50.494	ug/ml	94
98) Diphenamid	10.095	167	355722	53.196	ug/ml	98

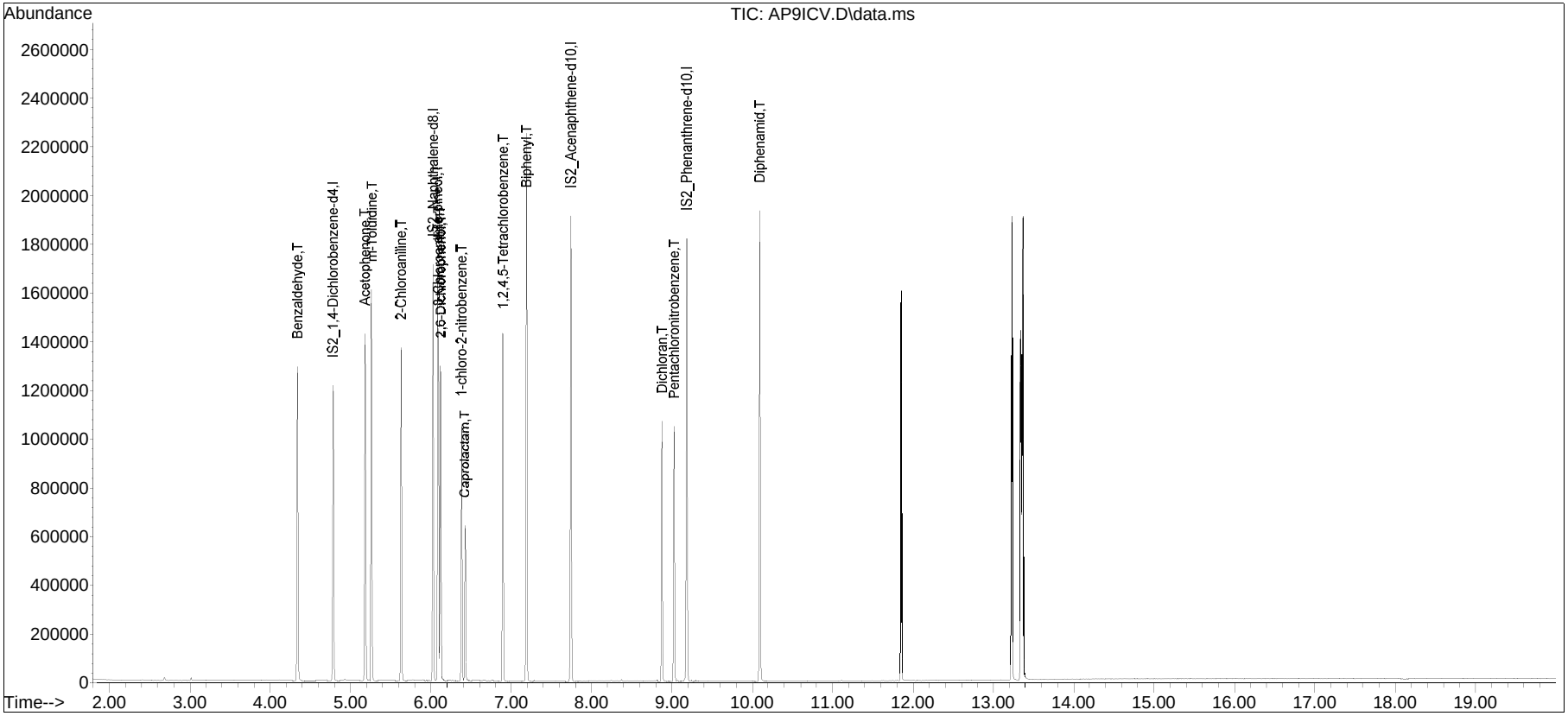
(#) = qualifier out of range (m) = manual integration (+) = signals summed

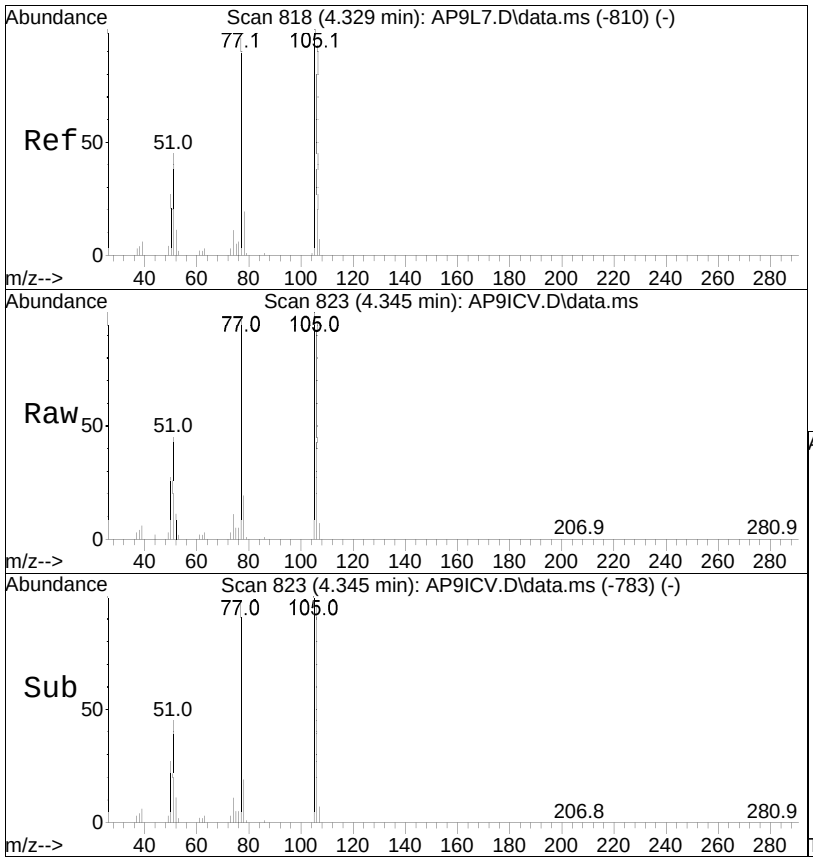
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181205ical\
Data File : AP9ICV.D
Acq On : 06 Dec 2018 05:12 am
Operator : sv112:cb
Sample : CQICV2,32,,AP9 ICV LOT# Lot#7798
Misc : WG1186464,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 06 14:19:20 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 14:19:10 2018
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublistal\AP9L7.D•

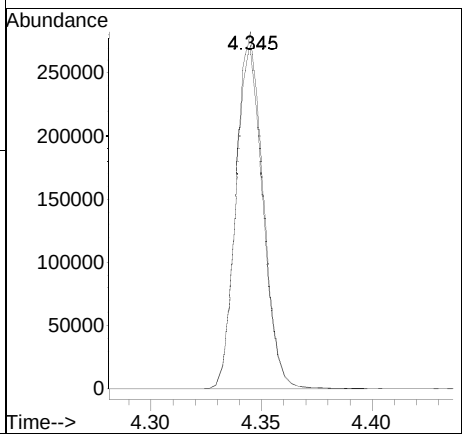


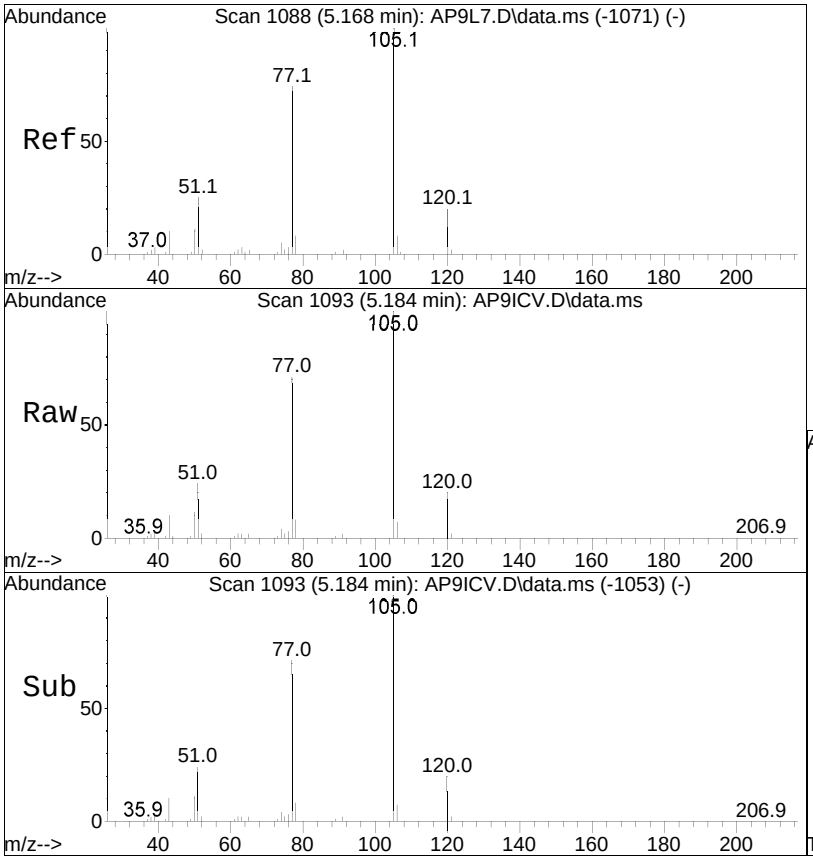


#28
Benzaldehyde
Concen: 47.23 ug/ml
RT: 4.345 min Scan# 823
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 06 Dec 2018 05:12 am

Tgt Ion:105 Resp: 238811

Ion	Ratio	Lower	Upper
105	100		
77	95.4	77.0	115.6

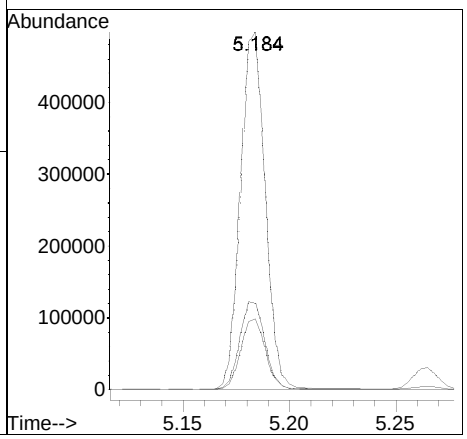


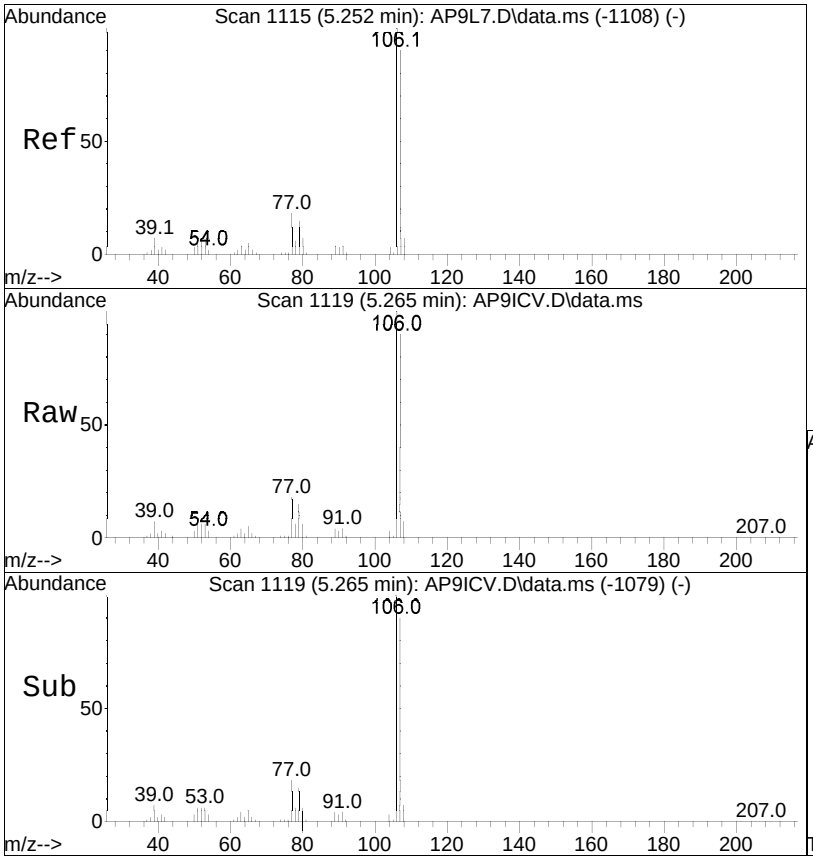


#29
Acetophenone
Concen: 47.07 ug/ml
RT: 5.184 min Scan# 1093
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 06 Dec 2018 05:12 am

Tgt Ion:105 Resp: 398574

Ion	Ratio	Lower	Upper
105	100		
120	20.0	15.2	22.8
51	25.2	23.1	34.7

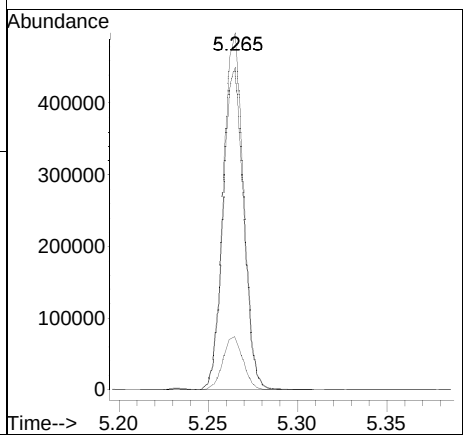


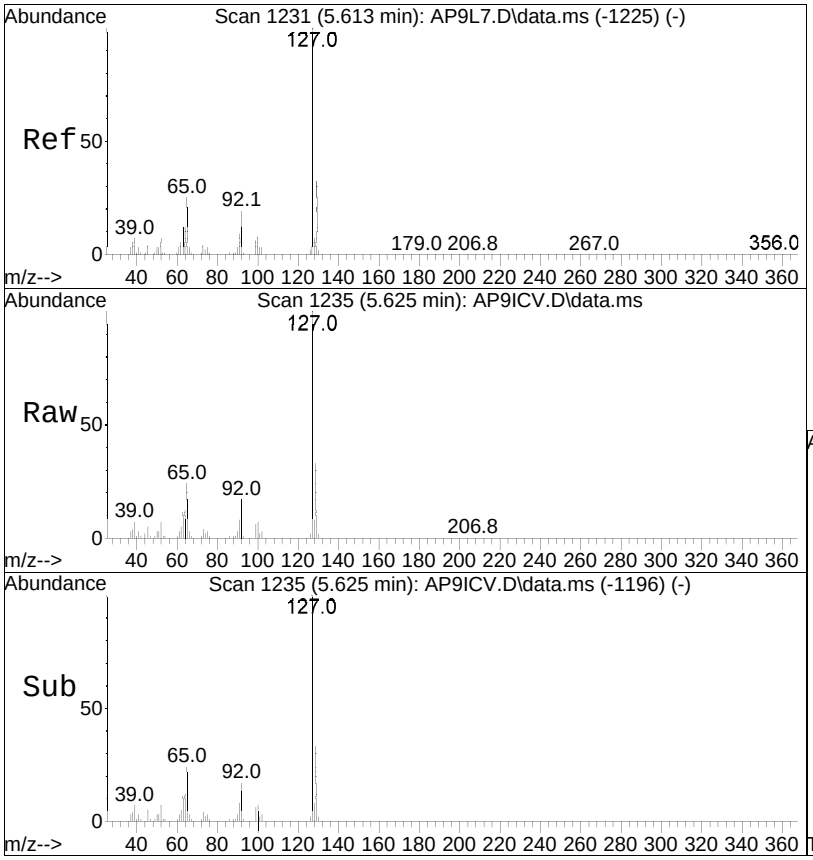


#30
m-Toluidine
Concen: 48.89 ug/ml
RT: 5.265 min Scan# 1119
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 06 Dec 2018 05:12 am

Tgt Ion:106 Resp: 394744

Ion	Ratio	Lower	Upper
106	100		
107	90.3	72.3	108.5
79	14.8	12.2	18.2

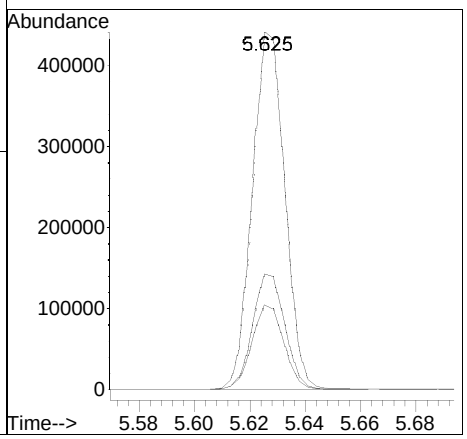


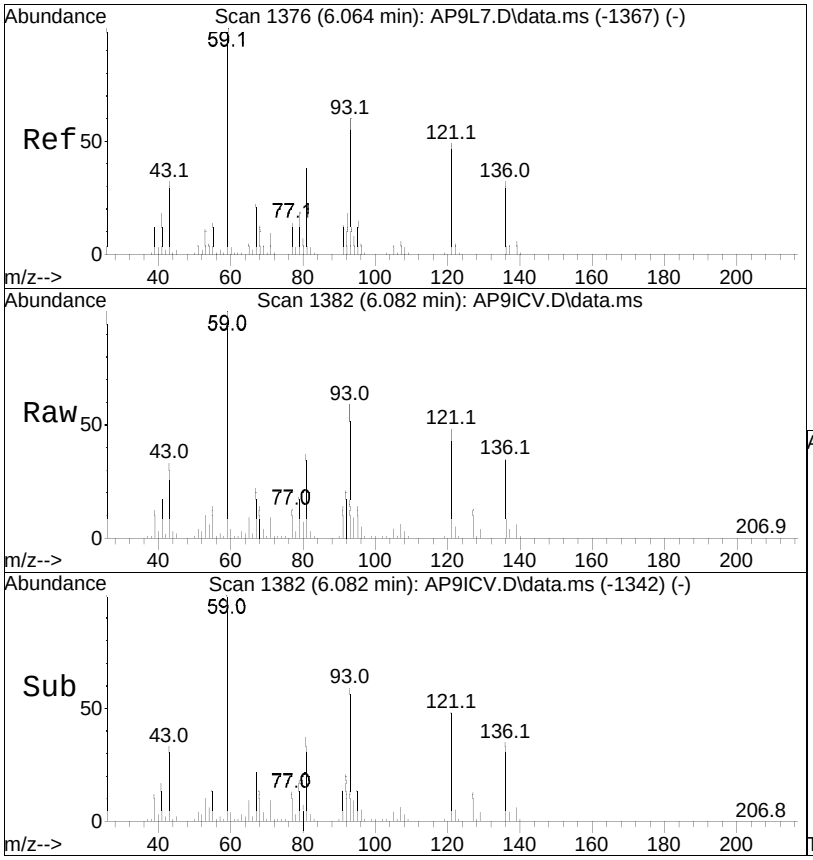


#31
2-Chloroaniline
Concen: 47.57 ug/ml
RT: 5.625 min Scan# 1235
Delta R.T. -0.004 min
Lab File: AP9ICV.D
Acq: 06 Dec 2018 05:12 am

Tgt Ion:127 Resp: 356780

Ion	Ratio	Lower	Upper
127	100		
129	32.4	25.7	38.5
65	23.6	20.5	30.7

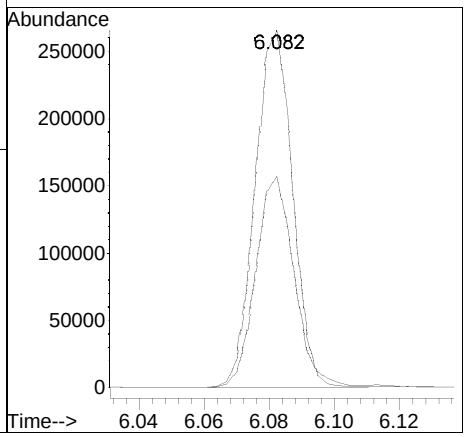


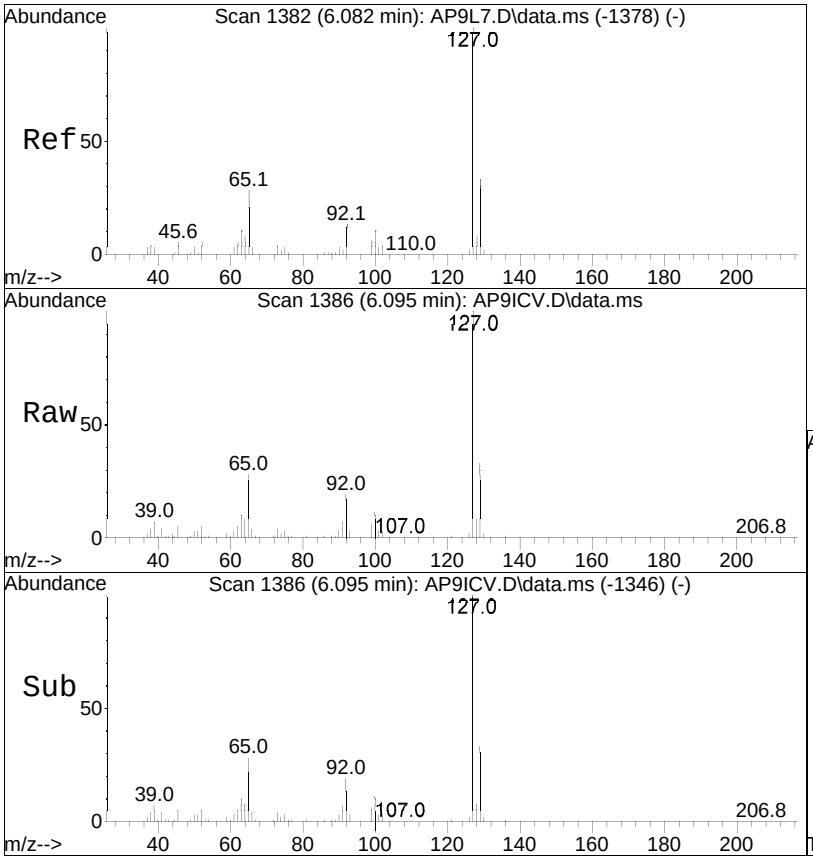


#55
a-Terpineol
Concen: 48.76 ug/ml
RT: 6.082 min Scan# 1382
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 06 Dec 2018 05:12 am

Tgt Ion: 59 Resp: 210976

Ion	Ratio	Lower	Upper
59	100		
93	61.2	43.5	65.3

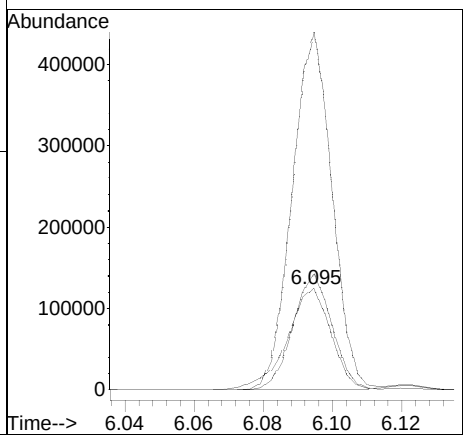


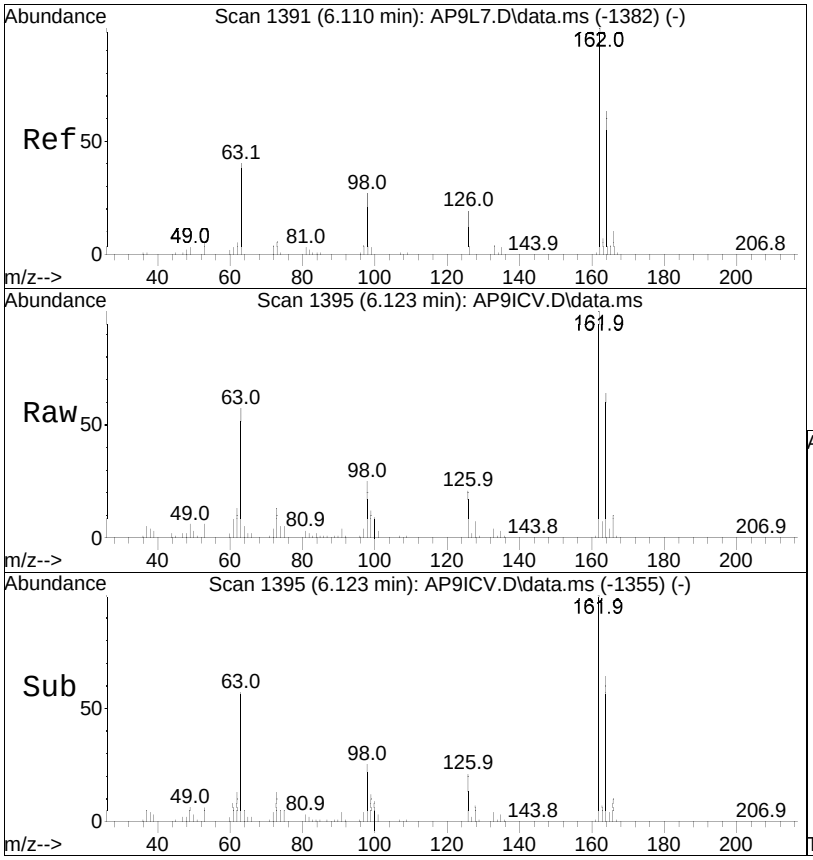


#56
3-Chloroaniline
Concen: 47.72 ug/ml
RT: 6.095 min Scan# 1386
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 06 Dec 2018 05:12 am

Tgt Ion: 65 Resp: 109248

Ion	Ratio	Lower	Upper
65	100		
127	319.3	236.6	355.0
129	102.3	76.6	115.0

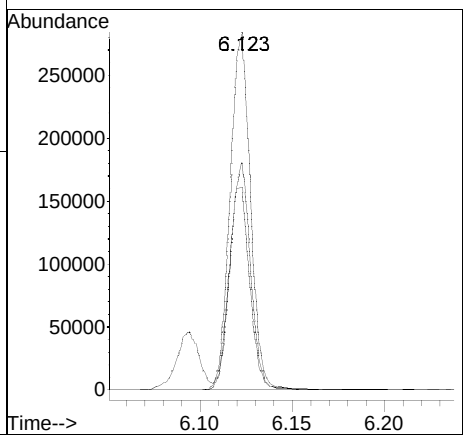


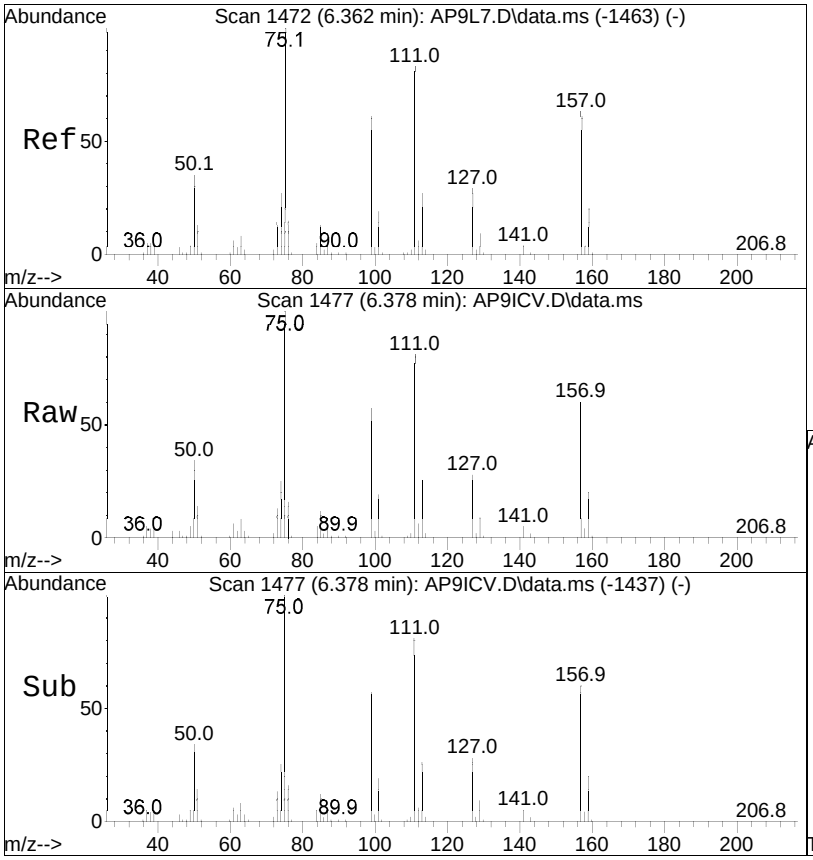


#57
2,6-Dichlorophenol
Concen: 50.20 ug/ml
RT: 6.123 min Scan# 1395
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 06 Dec 2018 05:12 am

Tgt Ion:162 Resp: 215859

Ion	Ratio	Lower	Upper
162	100		
164	63.8	50.8	76.2
63	57.5	53.6	80.4

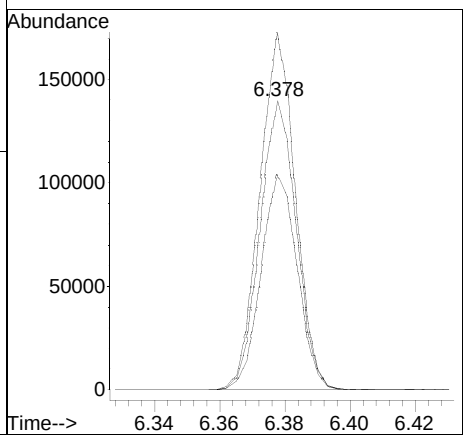


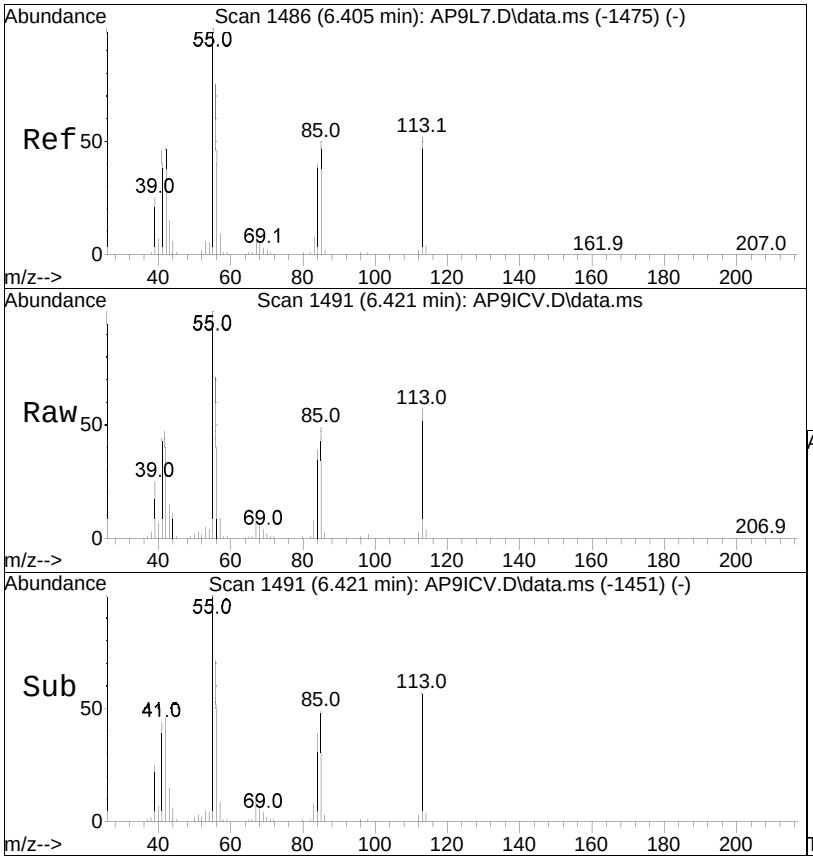


#58
1-chloro-2-nitrobenzene
Concen: 48.54 ug/ml
RT: 6.378 min Scan# 1477
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 06 Dec 2018 05:12 am

Tgt Ion:111 Resp: 107379

Ion	Ratio	Lower	Upper
111	100		
157	74.5	56.2	84.2
75	121.2	97.8	146.6

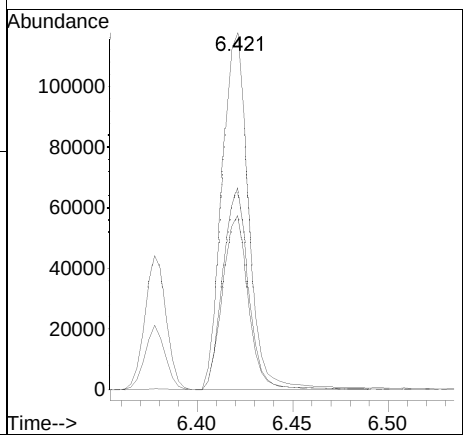


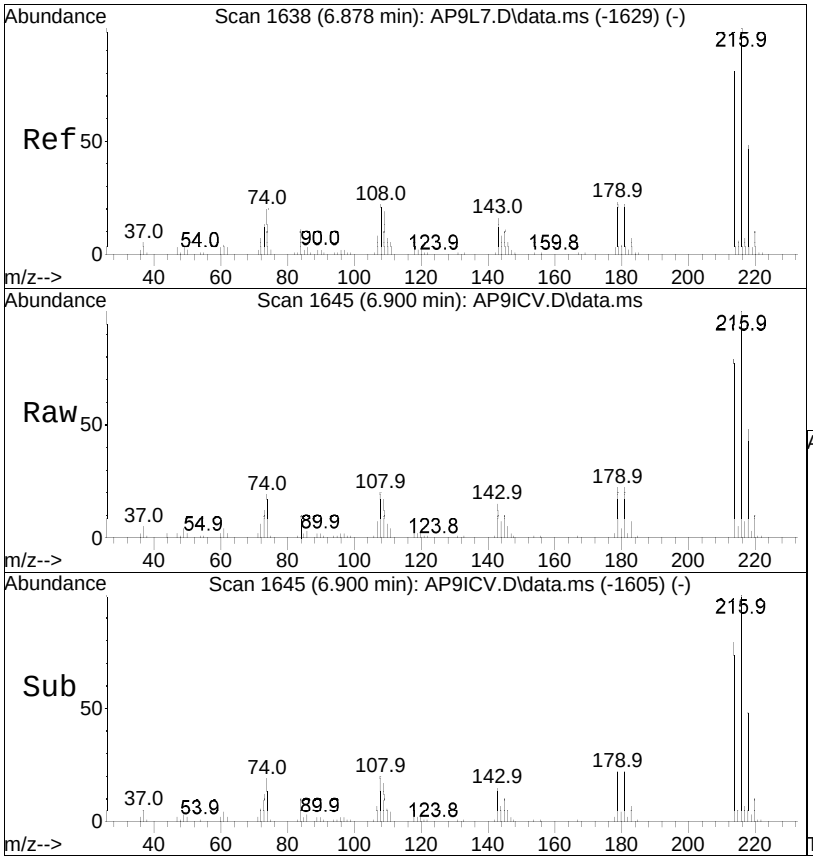


#59
Caprolactam
Concen: 50.55 ug/ml
RT: 6.421 min Scan# 1491
Delta R.T. 0.000 min
Lab File: AP9ICV.D
Acq: 06 Dec 2018 05:12 am

Tgt Ion: 55 Resp: 113889

Ion	Ratio	Lower	Upper
55	100		
85	47.5	35.2	52.8
113	55.2	36.6	55.0#

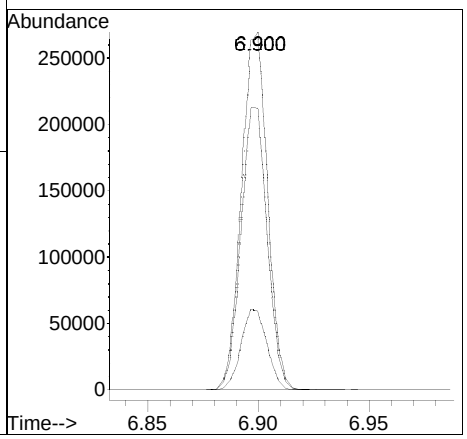


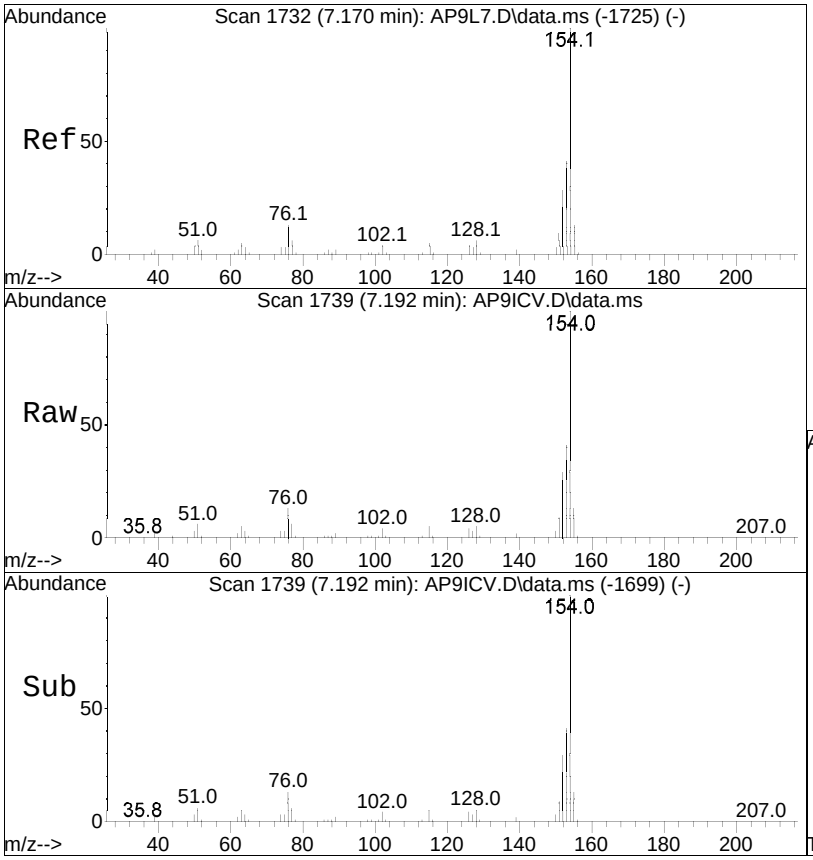


#60
1,2,4,5-Tetrachlorobenzene
Concen: 46.52 ug/ml
RT: 6.900 min Scan# 1645
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 06 Dec 2018 05:12 am

Tgt Ion:216 Resp: 218087

Ion	Ratio	Lower	Upper
216	100		
214	79.3	64.0	96.0
179	22.6	18.7	28.1

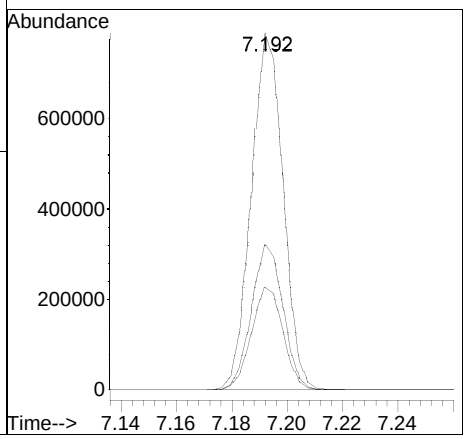


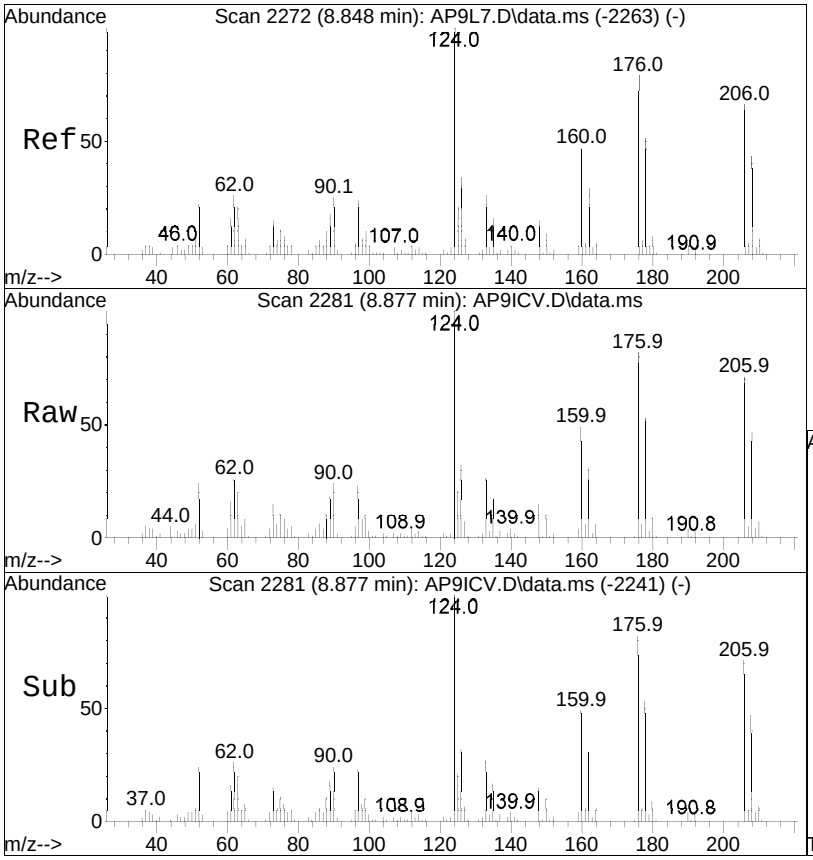


#61
Biphenyl
Concen: 47.08 ug/ml
RT: 7.192 min Scan# 1739
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 06 Dec 2018 05:12 am

Tgt Ion:154 Resp: 626954

Ion	Ratio	Lower	Upper
154	100		
153	40.7	32.5	48.7
152	28.9	22.6	34.0

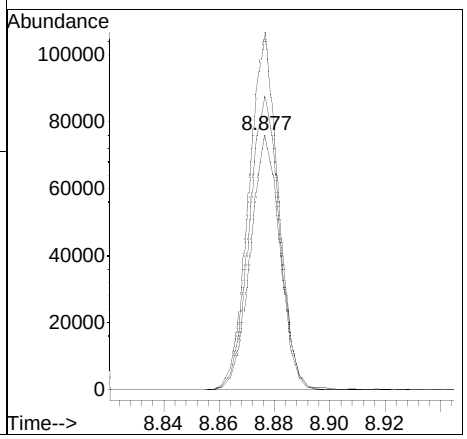


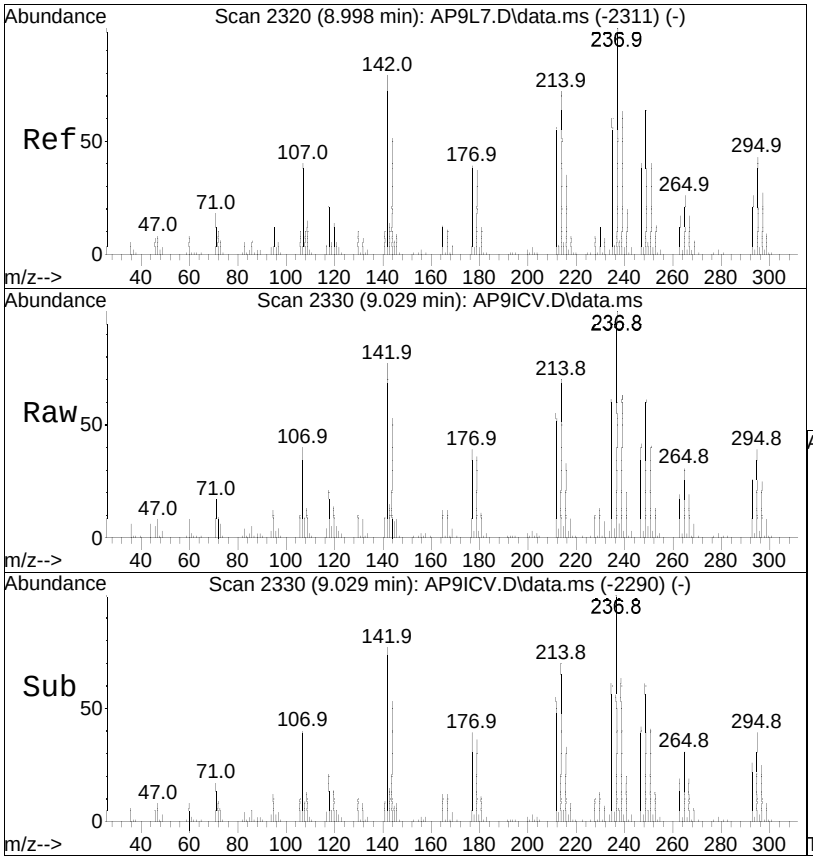


#83
Dichloran
Concen: 43.53 ug/ml
RT: 8.877 min Scan# 2281
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 06 Dec 2018 05:12 am

Tgt Ion:206 Resp: 56075

Ion	Ratio	Lower	Upper
206	100		
176	119.1	98.8	148.2
124	139.9	125.8	188.6

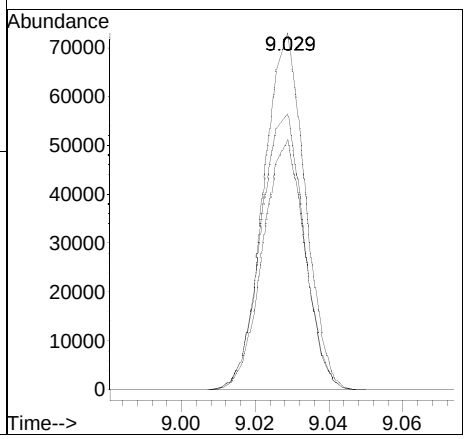


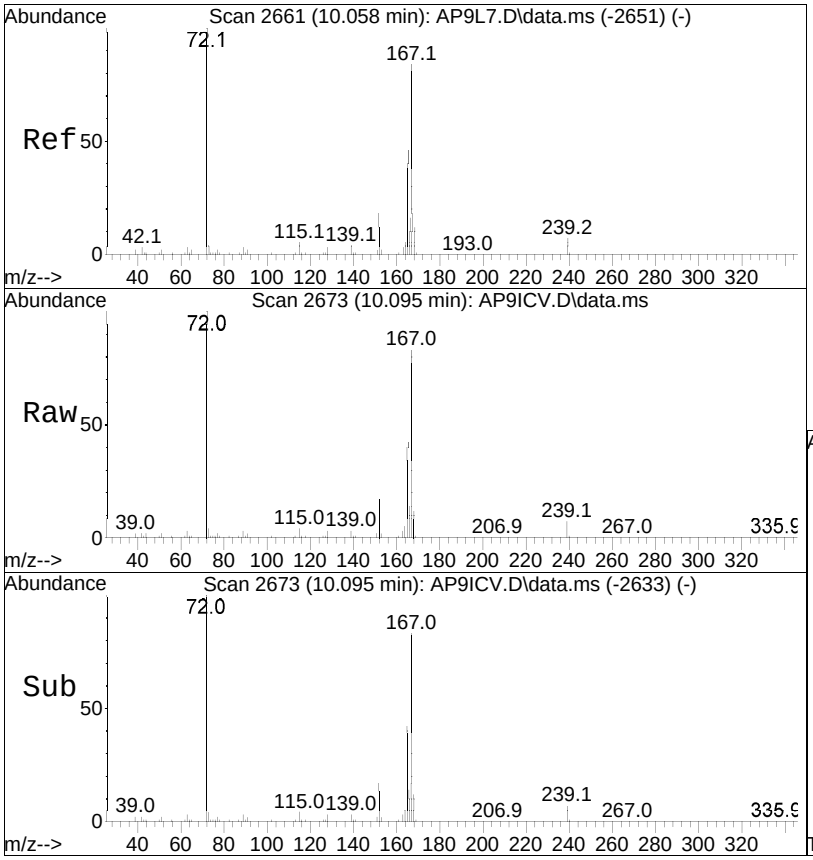


#84
Pentachloronitrobenzene
Concen: 50.49 ug/ml
RT: 9.029 min Scan# 2330
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 06 Dec 2018 05:12 am

Tgt Ion:237 Resp: 56811

Ion	Ratio	Lower	Upper
237	100		
142	80.5	70.3	105.5
214	71.7	59.4	89.2

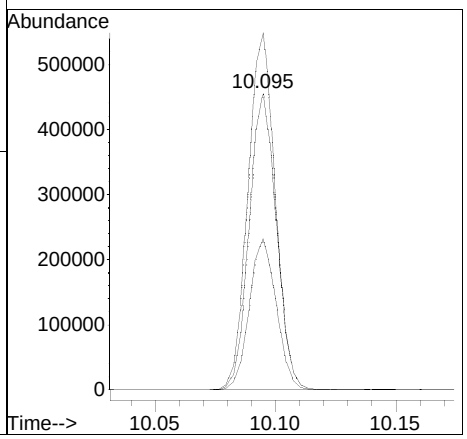




#98
Diphenamid
Concen: 53.20 ug/ml
RT: 10.095 min Scan# 2673
Delta R.T. -0.000 min
Lab File: AP9ICV.D
Acq: 06 Dec 2018 05:12 am

Tgt Ion:167 Resp: 355722

Ion	Ratio	Lower	Upper
167	100		
72	121.3	98.9	148.3
165	51.4	40.4	60.6



Manual Integration Report

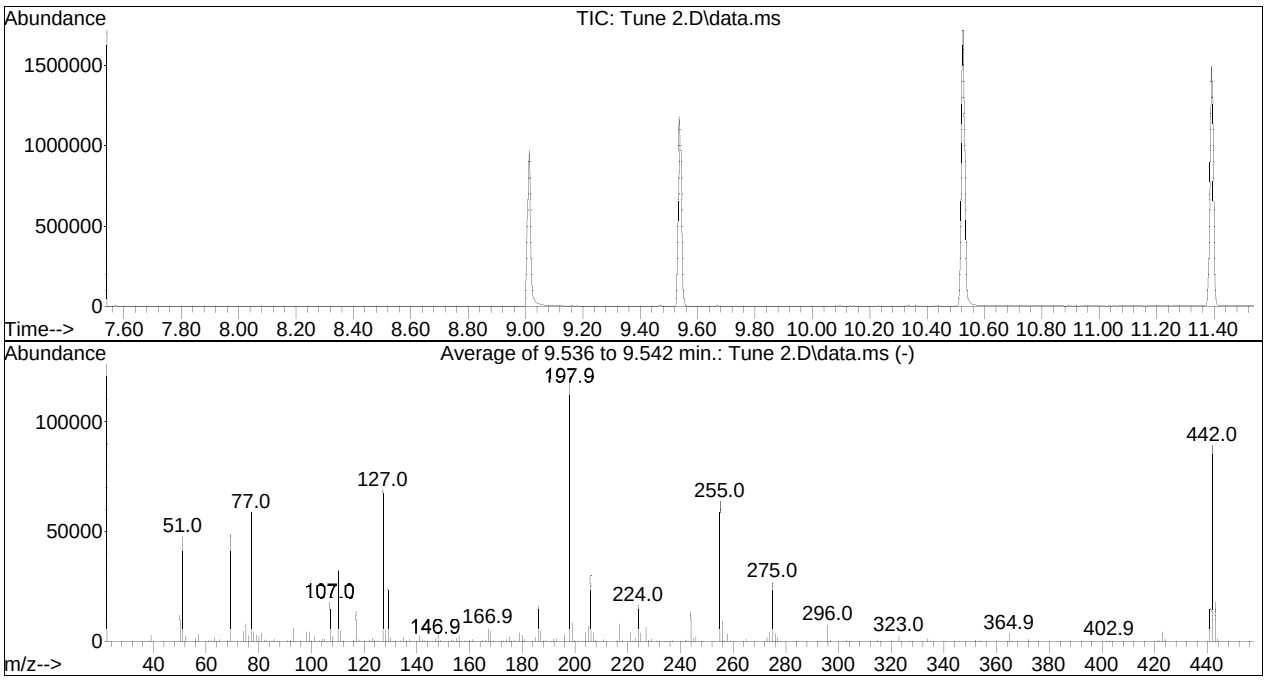
Data Path	: I:\8270\SV112\181205ical\	QMethod	: FS181205SV112.m
Data File	: AP9ICV.D	Operator	: sv112:cb
Date Inj'd	: 12/6/2018 5:12 am	Instrument	: SV112
Sample	: CQICV2,32,,AP9 ICV LOT# Lo	Quant Date	: 12/6/2018 2:19 pm

There are no manual integrations or false positives in this file.

Data Path : I:\8270\SV112\181205ical\
Data File : Tune 2.D
Acq On : 06 Dec 2018 05:37 am
Operator : sv112:cb
Sample : Tune2
Misc : WG1186464,,
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV112\181205ical\FS181205SV112.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Thu Dec 06 14:21:01 2018



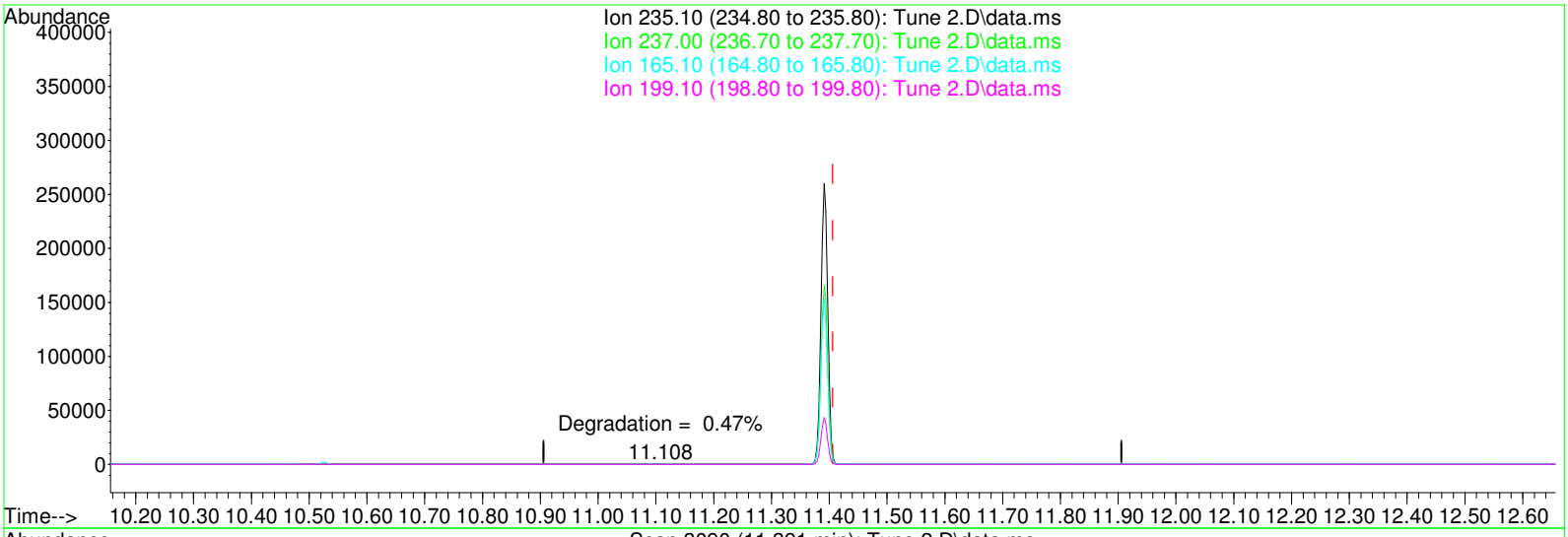
Spectrum Information: Average of 9.536 to 9.542 min.

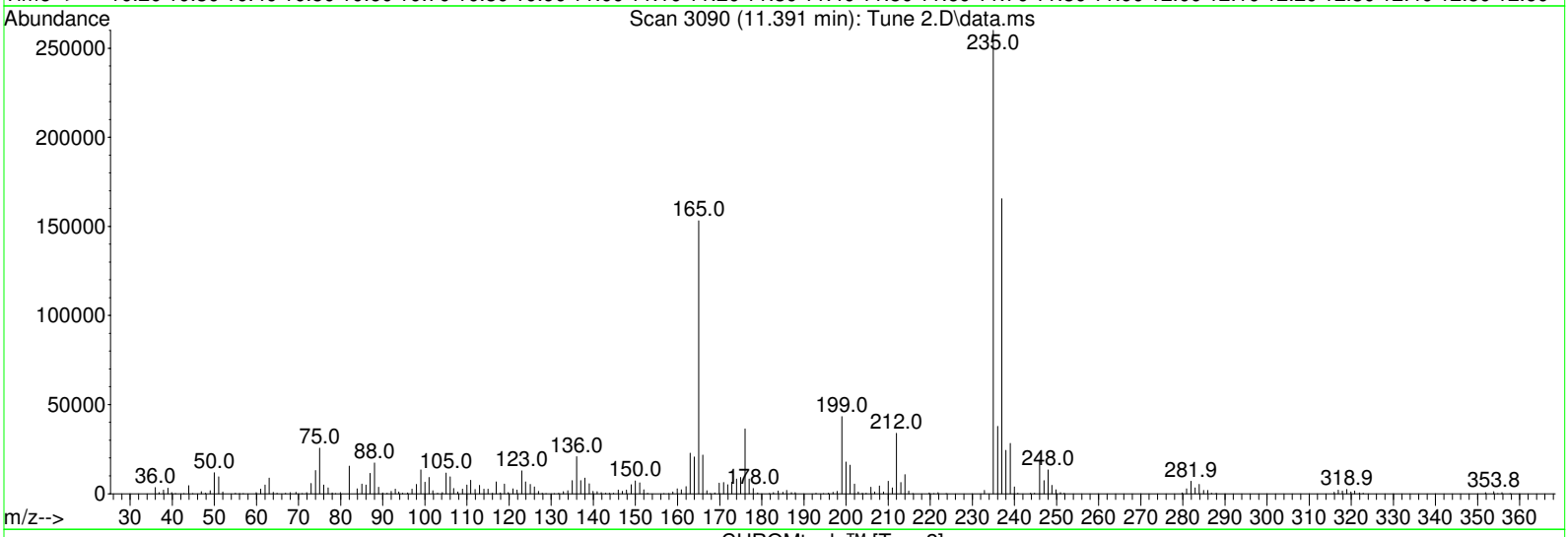
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	39.7	47693	PASS
68	69	0.00	2	1.6	766	PASS
70	69	0.00	2	0.4	209	PASS
127	198	10	80	57.0	68469	PASS
197	198	0.00	2	0.3	379	PASS
198	198	100	100	100.0	120125	PASS
199	198	5	9	7.0	8405	PASS
275	198	10	60	22.6	27117	PASS
365	198	1	100	3.0	3562	PASS
441	442	0.01	24	17.0	15129	PASS
442	198	50	100	74.0	88936	PASS
443	442	15	24	19.7	17476	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV112\181205ical\
Data File : Tune 2.D
Acq On : 06 Dec 2018 05:37 am
Operator : sv112:cb
Sample : Tune2
Misc : WG1186464,,
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Dec 06 10:59:03 2018
Quant Method : I:\8270\SV112\181205ical\dftppSV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 19:42:43 2018
Response via : Initial Calibration





CHROMtools™ [Tune2]

(6) ddt (T)

11.391min (-0.015) 35.07

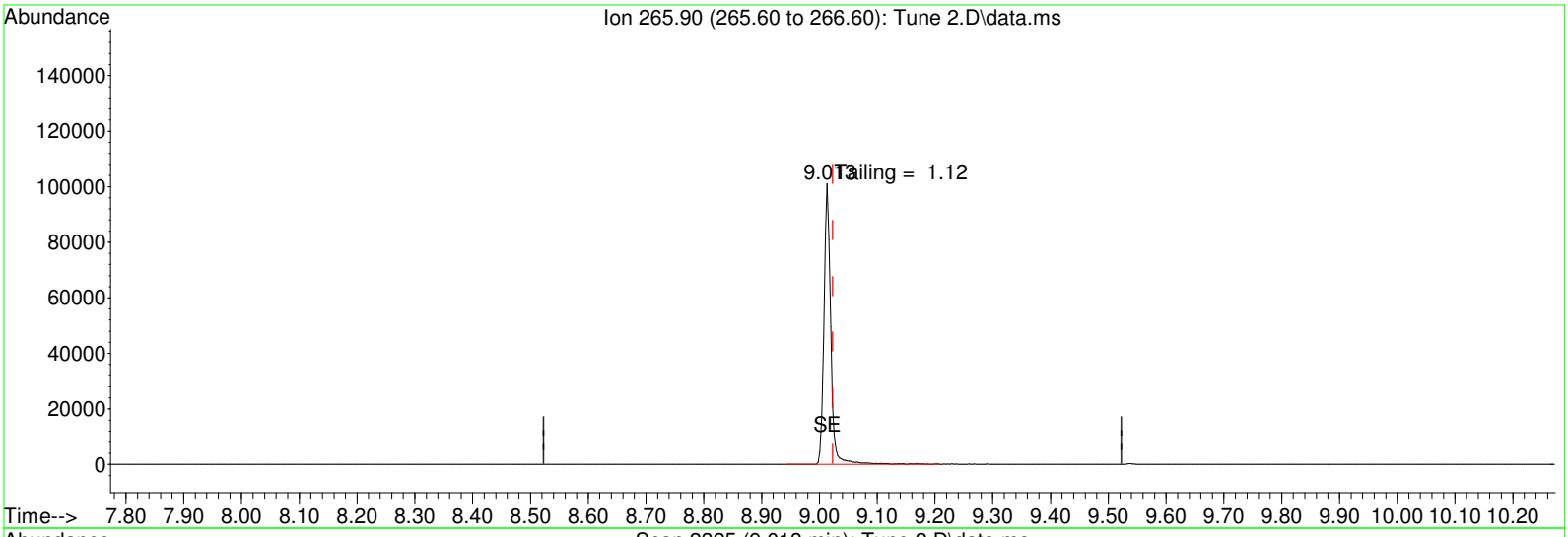
response 213758

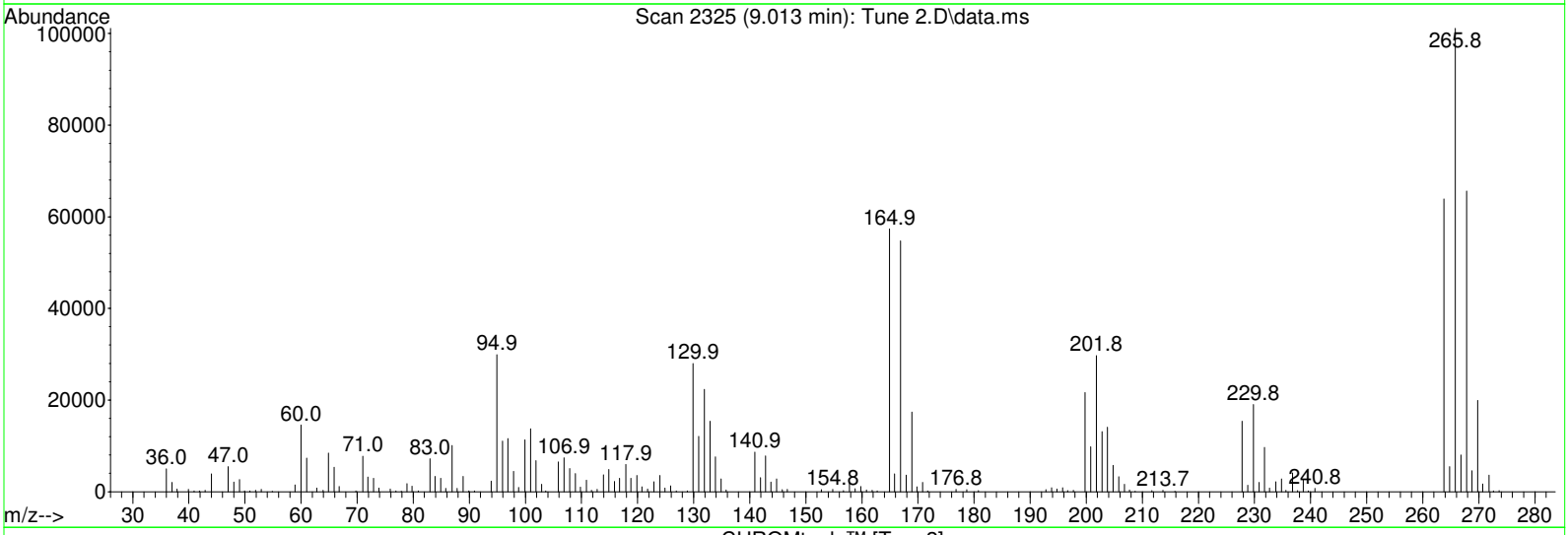
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	63.00	64.88
165.10	60.40	58.64
199.10	16.10	16.29

Quantitation Report (Qedit)

Data Path : I:\8270\SV112\181205ical\
Data File : Tune 2.D
Acq On : 06 Dec 2018 05:37 am
Operator : sv112:cb
Sample : Tune2
Misc : WG1186464,,
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Dec 06 10:59:03 2018
Quant Method : I:\8270\SV112\181205ical\dftppSV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 19:42:43 2018
Response via : Initial Calibration





CHROMtools™ [Tune2]

(1) pentachlorophenol (T)

9.013min (-0.010) 39.14

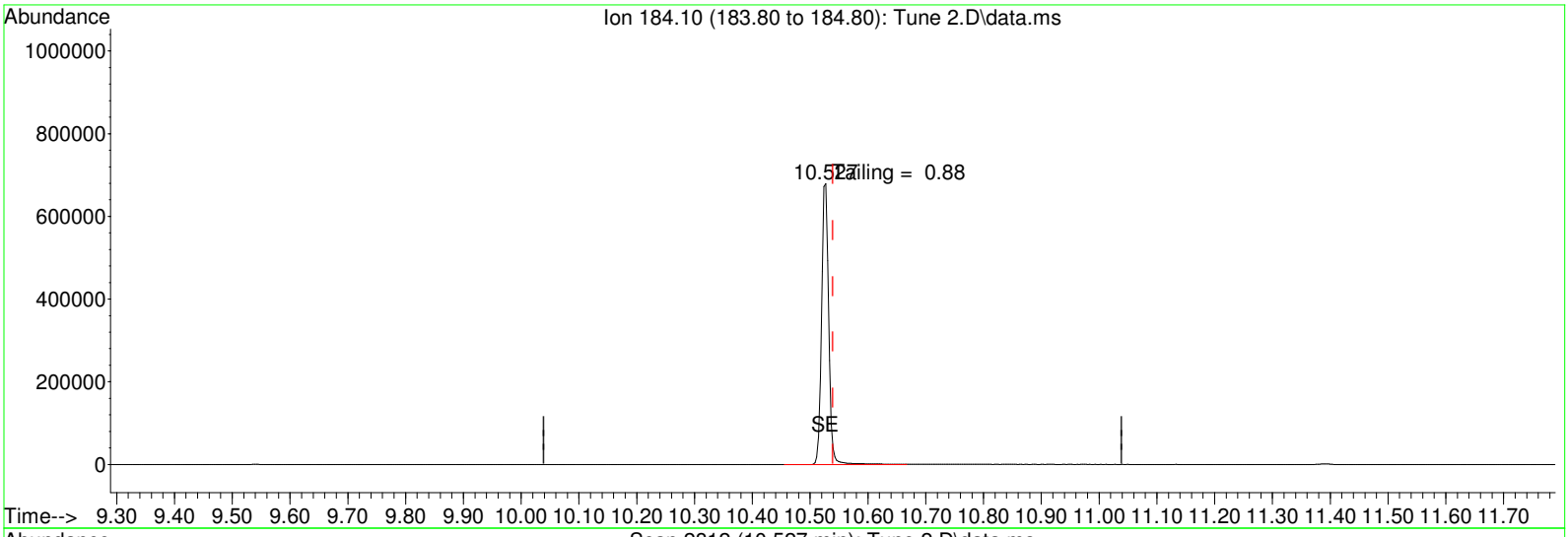
response 82211

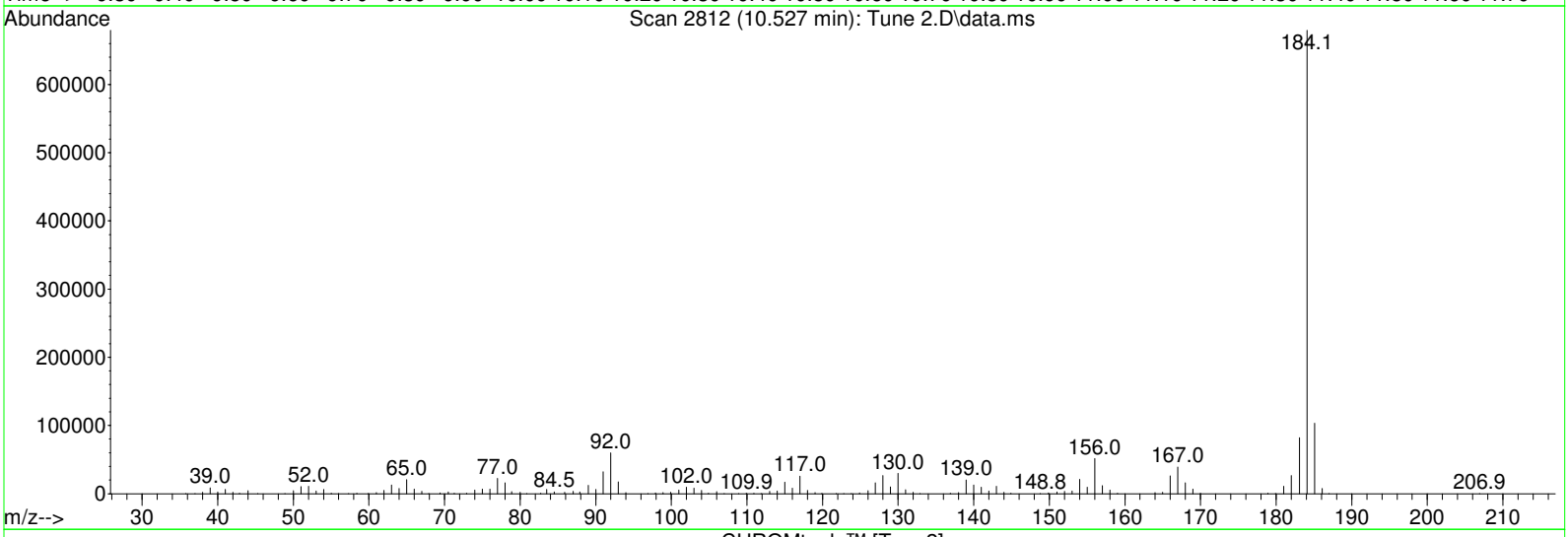
Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV112\181205ical\
Data File : Tune 2.D
Acq On : 06 Dec 2018 05:37 am
Operator : sv112:cb
Sample : Tune2
Misc : WG1186464,,
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Dec 06 10:59:03 2018
Quant Method : I:\8270\SV112\181205ical\dftppSV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 19:42:43 2018
Response via : Initial Calibration





CHROMtools™ [Tune2]

(3) benzidine (T)

10.527min (-0.012) 56.47

response 574843

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181205ical\
Data File : ADPL10.D
Acq On : 06 Dec 2018 06:02 am
Operator : sv112:cb
Sample : IL21,32,,ADPL200 Lot#7810
Misc : WG1186464,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 06 13:38:30 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 13:31:09 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\181205ical\ADPL7.D
Sub List : ADPical - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.783	152	159612	40.000	ug/ml	0.00
Standard Area 1 = 170651			Recovery =	93.53%		
85) IS3_Acenaphthene-d10	7.742	164	322587	40.000	ug/ml	0.00
Standard Area 1 = 329645			Recovery =	97.86%		
99) IS3_Phenanthrene-d10	9.184	188	585615	40.000	ug/ml	0.00
Standard Area 1 = 588574			Recovery =	99.50%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	4.671	57	1144590	194.158	ug/ml	92
86) Atrazine	8.961	200	630988	234.334	ug/ml	98
100) n-Octadecane	9.159	57	1407845	188.968	ug/ml	90
101) Parathion	9.977	109	478475	288.267	ug/ml#	95
102) 3,3'-Dimethylbenzidine	11.285	212	2593504	246.561	ug/ml	99

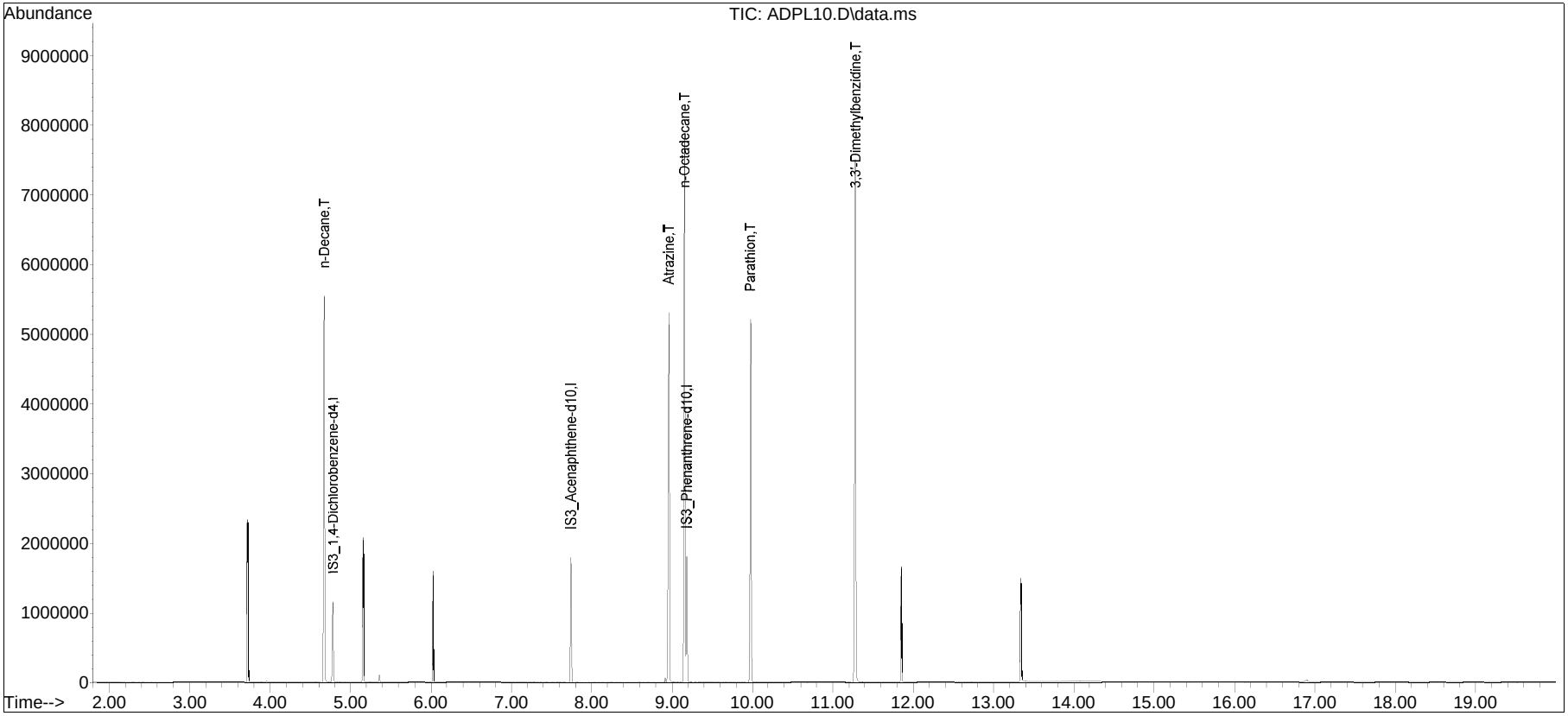
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181205ical\
Data File : ADPL10.D
Acq On : 06 Dec 2018 06:02 am
Operator : sv112:cb
Sample : IL21,32,,ADPL200 Lot#7810
Misc : WG1186464,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 06 13:38:30 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 13:31:09 2018
Response via : Initial Calibration

Sub List : ADPical - ADP sublist205ical\ADPL7.D•



Manual Integration Report

Data Path	: I:\8270\SV112\181205ical\	QMethod	: FS181205SV112.m
Data File	: ADPL10.D	Operator	: sv112:cb
Date Inj'd	: 12/6/2018 6:02 am	Instrument	: SV112
Sample	: IL21,32,,ADPL200 Lot#7810	Quant Date	: 12/6/2018 1:34 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181205ical\
Data File : ADPL9.D
Acq On : 06 Dec 2018 06:28 am
Operator : sv112:cb
Sample : IL22,32,,ADPL150 Lot#7819
Misc : WG1186464,,
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 06 13:44:21 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 13:31:09 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\181205ical\ADPL7.D
Sub List : ADPical - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.783	152	156295	40.000	ug/ml	0.00
Standard Area 1 = 170651			Recovery = 91.59%			
85) IS3_Acenaphthene-d10	7.742	164	308564	40.000	ug/ml	0.00
Standard Area 1 = 329645			Recovery = 93.60%			
99) IS3_Phenanthrene-d10	9.184	188	563481	40.000	ug/ml	0.00
Standard Area 1 = 588574			Recovery = 95.74%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	4.671	57	862567	149.423	ug/ml	93
86) Atrazine	8.957	200	441270	171.325	ug/ml	99
100) n-Octadecane	9.156	57	1052944	146.883	ug/ml	91
101) Parathion	9.977	109	319622	200.127	ug/ml	96
102) 3,3'-Dimethylbenzidine	11.279	212	1798694	177.716	ug/ml	99

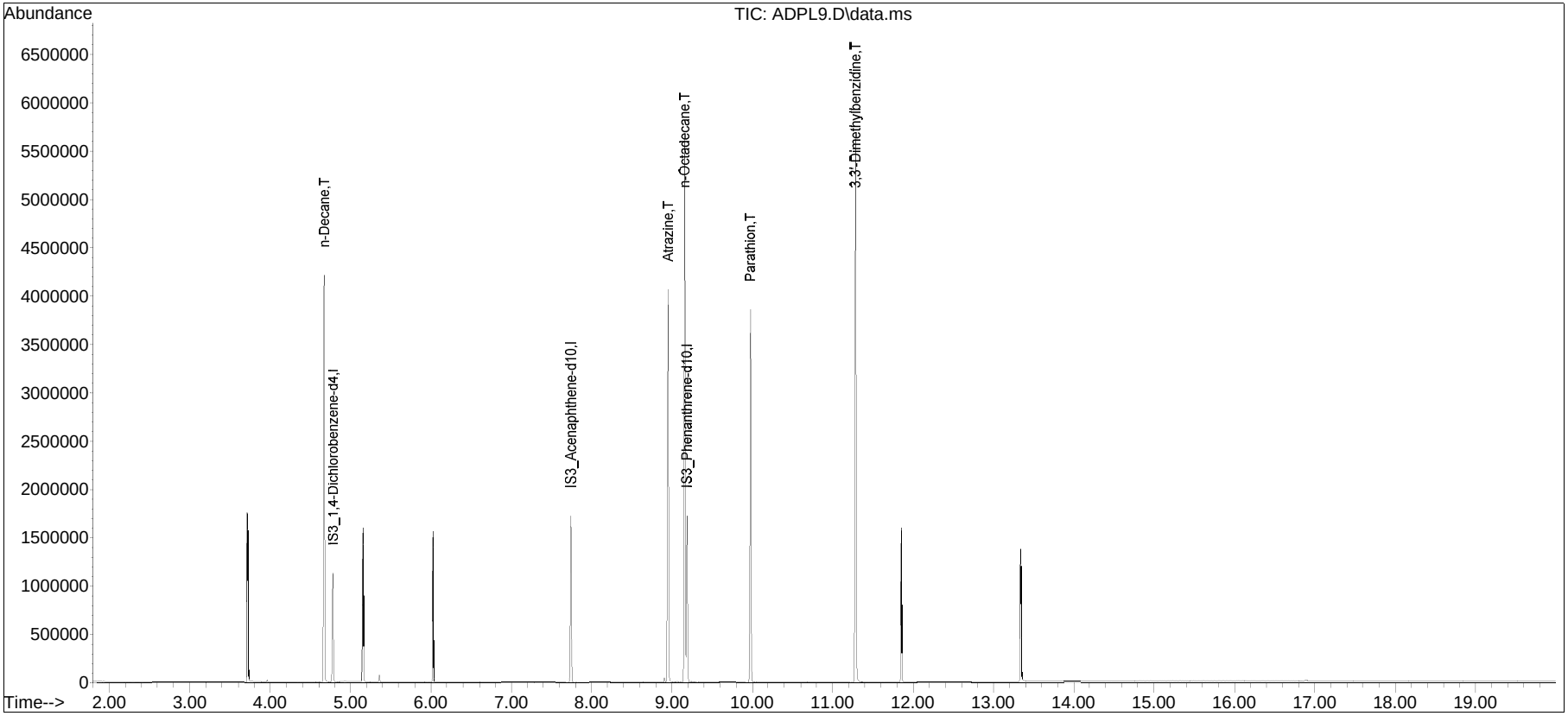
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181205ical\
Data File : ADPL9.D
Acq On : 06 Dec 2018 06:28 am
Operator : sv112:cb
Sample : IL22,32,,ADPL150 Lot#7819
Misc : WG1186464,,
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 06 13:44:21 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 13:31:09 2018
Response via : Initial Calibration

Sub List : ADPical - ADP sublist205ical\ADPL7.D•



Manual Integration Report

Data Path	: I:\8270\SV112\181205ical\	QMethod	: FS181205SV112.m
Data File	: ADPL9.D	Operator	: sv112:cb
Date Inj'd	: 12/6/2018 6:28 am	Instrument	: SV112
Sample	: IL22,32,,ADPL150 Lot#7819	Quant Date	: 12/6/2018 1:35 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181205ical\
Data File : ADPL8.D
Acq On : 06 Dec 2018 06:53 am
Operator : sv112:cb
Sample : IL23,32,,ADPL100 Lot#7818
Misc : WG1186464,,
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Dec 06 13:43:29 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 13:31:09 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\181205ical\ADPL7.D
Sub List : ADPical - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.780	152	165332	40.000	ug/ml	0.00
Standard Area 1 = 170651			Recovery = 96.88%			
85) IS3_Acenaphthene-d10	7.742	164	343688	40.000	ug/ml	0.00
Standard Area 1 = 329645			Recovery = 104.26%			
99) IS3_Phenanthrene-d10	9.184	188	620330	40.000	ug/ml	0.00
Standard Area 1 = 588574			Recovery = 105.40%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	4.668	57	609189	99.762	ug/ml	94
86) Atrazine	8.954	200	307932	107.338	ug/ml	99
100) n-Octadecane	9.156	57	792424	100.411	ug/ml	92
101) Parathion	9.974	109	215071	122.323	ug/ml	96
102) 3,3'-Dimethylbenzidine	11.279	212	1219465	109.445	ug/ml	99

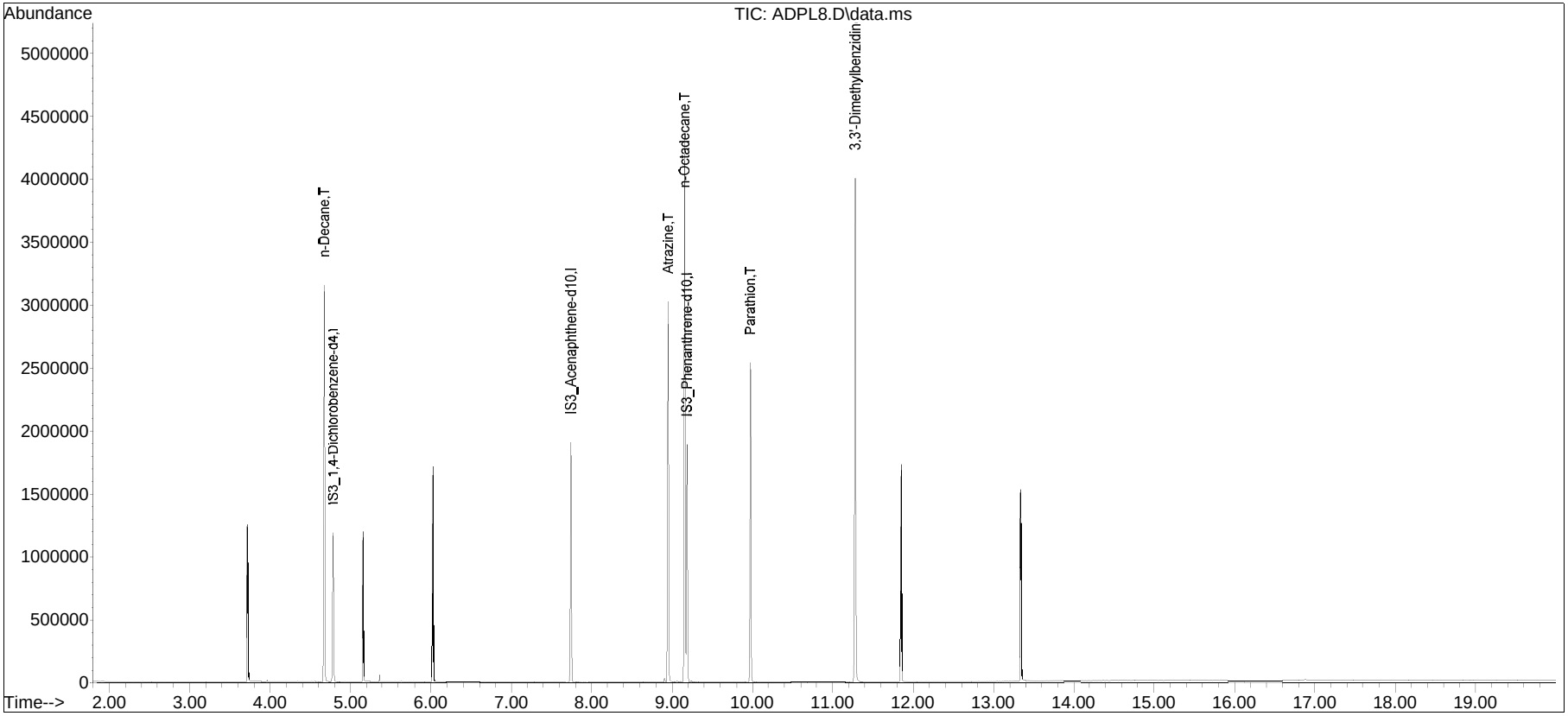
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181205ical\
Data File : ADPL8.D
Acq On : 06 Dec 2018 06:53 am
Operator : sv112:cb
Sample : IL23,32,,ADPL100 Lot#7818
Misc : WG1186464,,
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Dec 06 13:43:29 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 13:31:09 2018
Response via : Initial Calibration

Sub List : ADPical - ADP sublist205ical\ADPL7.D•



Manual Integration Report

Data Path	: I:\8270\SV112\181205ical\	QMethod	: FS181205SV112.m
Data File	: ADPL8.D	Operator	: sv112:cb
Date Inj'd	: 12/6/2018 6:53 am	Instrument	: SV112
Sample	: IL23,32,,ADPL100 Lot#7818	Quant Date	: 12/6/2018 1:35 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181205ical\
Data File : ADPL7.D
Acq On : 06 Dec 2018 07:19 am
Operator : sv112:cb
Sample : IL24,32,,ADPL50 Lot#7817
Misc : WG1186464,,
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Dec 06 11:43:06 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 11:42:49 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\181205ical\ADPL7.D
Sub List : ADPical - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.783	152	170651	40.000	ug/ml	0.00
Standard Area 1 = 170651			Recovery = 100.00%			
85) IS3_Acenaphthene-d10	7.742	164	329645	40.000	ug/ml	0.00
Standard Area 1 = 329645			Recovery = 100.00%			
99) IS3_Phenanthrene-d10	9.184	188	588574	40.000	ug/ml	0.00
Standard Area 1 = 588574			Recovery = 100.00%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	4.668	57	315144	50.000	ug/ml	95
86) Atrazine	8.951	200	137580	50.000	ug/ml	99
100) n-Octadecane	9.156	57	374392	50.000	ug/ml	93
101) Parathion	9.974	109	83411	50.000	ug/ml	98
102) 3,3'-Dimethylbenzidine	11.276	212	528593	50.000	ug/ml	98

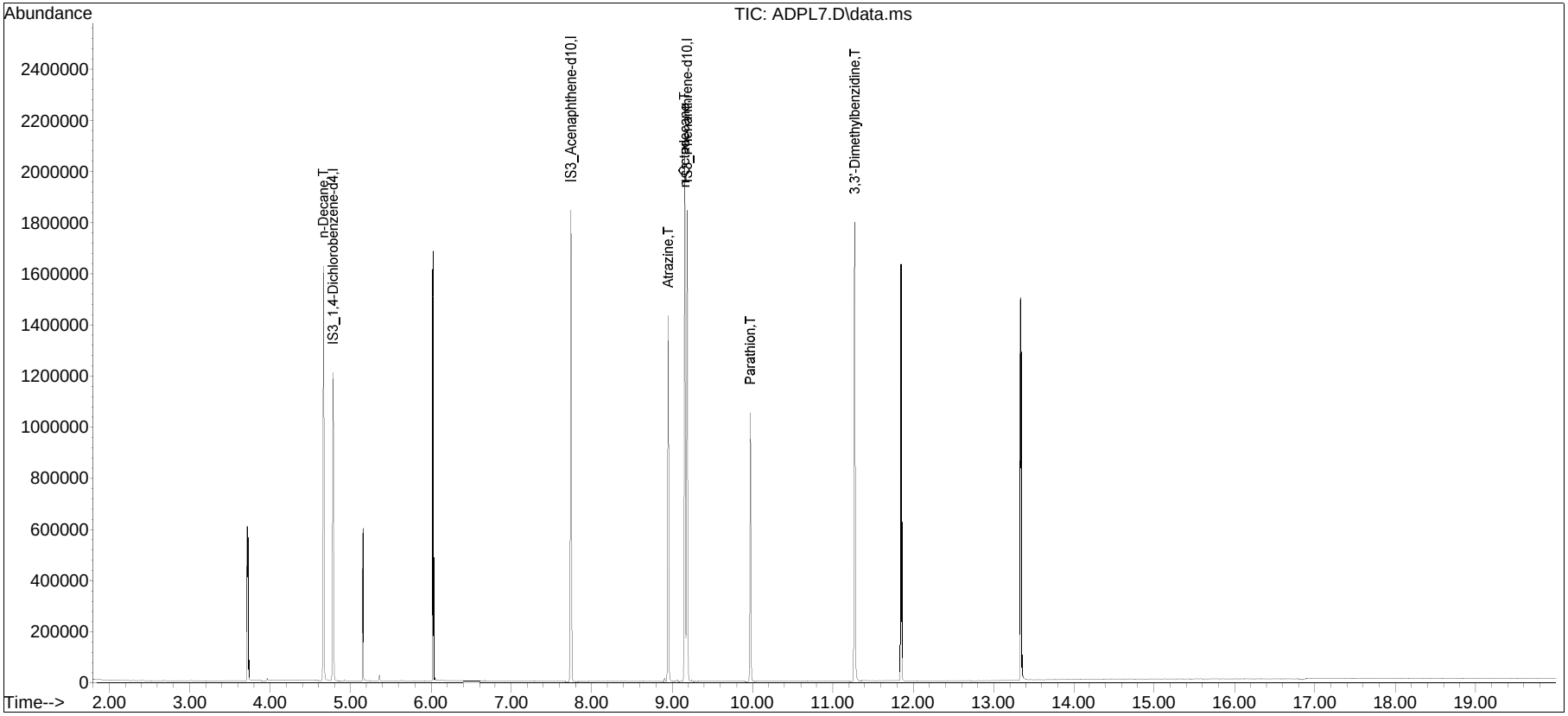
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181205ical\
Data File : ADPL7.D
Acq On : 06 Dec 2018 07:19 am
Operator : sv112:cb
Sample : IL24,32,,ADPL50 Lot#7817
Misc : WG1186464,,
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Dec 06 11:43:06 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 11:42:49 2018
Response via : Initial Calibration

Sub List : ADPical - ADP sublist205ical\ADPL7.D•



Manual Integration Report

Data Path	: I:\8270\SV112\181205ical\	QMethod	: FS181205SV112.m
Data File	: ADPL7.D	Operator	: sv112:cb
Date Inj'd	: 12/6/2018 7:19 am	Instrument	: SV112
Sample	: IL24,32,,ADPL50 Lot#7817	Quant Date	: 12/6/2018 11:42 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181205ical\
Data File : ADPL6.D
Acq On : 06 Dec 2018 07:44 am
Operator : sv112:cb
Sample : IL25,32,,ADPL20 Lot#7816
Misc : WG1186464,,
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Dec 06 13:42:10 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 13:31:09 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\181205ical\ADPL7.D
Sub List : ADPical - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.783	152	173291	40.000	ug/ml	0.00
Standard Area 1 = 170651			Recovery = 101.55%			
85) IS3_Acenaphthene-d10	7.742	164	331611	40.000	ug/ml	0.00
Standard Area 1 = 329645			Recovery = 100.60%			
99) IS3_Phenanthrene-d10	9.184	188	596740	40.000	ug/ml	0.00
Standard Area 1 = 588574			Recovery = 101.39%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	4.668	57	131848	20.600	ug/ml	96
86) Atrazine	8.948	200	50318	18.178	ug/ml	98
100) n-Octadecane	9.156	57	150263	19.793	ug/ml	94
101) Parathion	9.974	109	23023	13.612	ug/ml	98
102) 3,3'-Dimethylbenzidine	11.276	212	167906	15.665	ug/ml	97

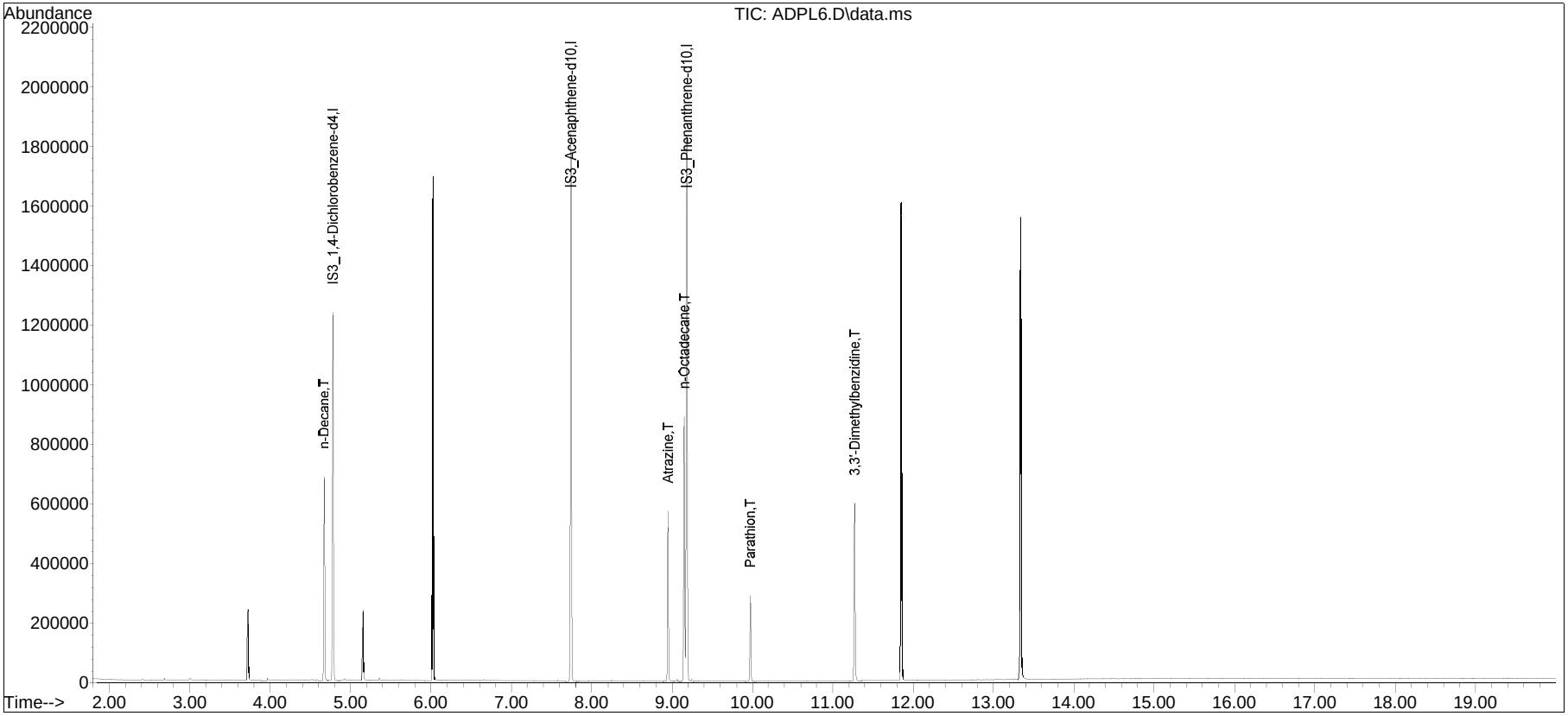
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181205ical\
Data File : ADPL6.D
Acq On : 06 Dec 2018 07:44 am
Operator : sv112:cb
Sample : IL25,32,,ADPL20 Lot#7816
Misc : WG1186464,,
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Dec 06 13:42:10 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 13:31:09 2018
Response via : Initial Calibration

Sub List : ADPical - ADP sublist205ical\ADPL7.D•



Manual Integration Report

Data Path	: I:\8270\SV112\181205ical\	QMethod	: FS181205SV112.m
Data File	: ADPL6.D	Operator	: sv112:cb
Date Inj'd	: 12/6/2018 7:44 am	Instrument	: SV112
Sample	: IL25,32,,ADPL20 Lot#7816	Quant Date	: 12/6/2018 1:35 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181205ical\
Data File : ADPL5.D
Acq On : 06 Dec 2018 08:10 am
Operator : sv112:cb
Sample : IL26,32,,ADPL10 Lot#7815
Misc : WG1186464,,
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Dec 06 13:41:21 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 13:31:09 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\181205ical\ADPL7.D
Sub List : ADPical - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.783	152	167017	40.000	ug/ml	0.00
Standard Area 1 = 170651			Recovery = 97.87%			
85) IS3_Acenaphthene-d10	7.742	164	342192	40.000	ug/ml	0.00
Standard Area 1 = 329645			Recovery = 103.81%			
99) IS3_Phenanthrene-d10	9.184	188	616975	40.000	ug/ml	0.00
Standard Area 1 = 588574			Recovery = 104.83%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	4.668	57	64383	10.437	ug/ml	96
86) Atrazine	8.948	200	23958	8.388	ug/ml	100
100) n-Octadecane	9.156	57	73367	9.347	ug/ml	94
101) Parathion	9.974	109	9194	5.258	ug/ml	100
102) 3,3'-Dimethylbenzidine	11.276	212	67918	6.129	ug/ml	97

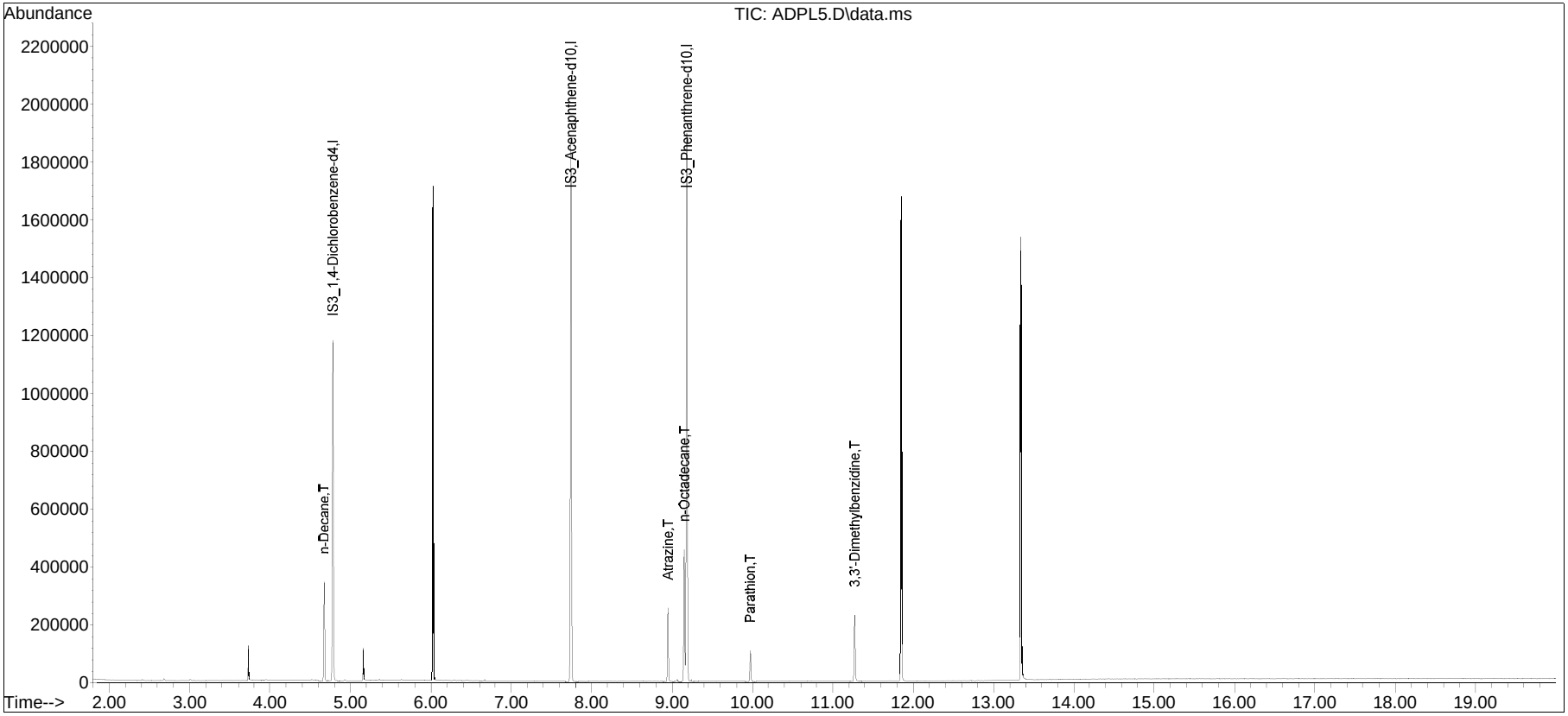
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181205ical\
Data File : ADPL5.D
Acq On : 06 Dec 2018 08:10 am
Operator : sv112:cb
Sample : IL26,32,,ADPL10 Lot#7815
Misc : WG1186464,,
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Dec 06 13:41:21 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 13:31:09 2018
Response via : Initial Calibration

Sub List : ADPical - ADP sublist205ical\ADPL7.D•



Manual Integration Report

Data Path	: I:\8270\SV112\181205ical\	QMethod	: FS181205SV112.m
Data File	: ADPL5.D	Operator	: sv112:cb
Date Inj'd	: 12/6/2018 8:10 am	Instrument	: SV112
Sample	: IL26,32,,ADPL10 Lot#7815	Quant Date	: 12/6/2018 1:35 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181205ical\
Data File : ADPL4.D
Acq On : 06 Dec 2018 08:35 am
Operator : sv112:cb
Sample : IL27,32,,ADPL5 Lot#7814
Misc : WG1186464,,
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Dec 06 15:15:24 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 15:15:15 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\181205ical\ADPL7.D
Sub List : ADPical - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.783	152	165560	40.000	ug/ml	0.00
Standard Area 1 = 170651			Recovery =	97.02%		
85) IS3_Acenaphthene-d10	7.742	164	317552	40.000	ug/ml	0.00
Standard Area 1 = 329645			Recovery =	96.33%		
99) IS3_Phenanthrene-d10	9.184	188	559869	40.000	ug/ml	0.00
Standard Area 1 = 588574			Recovery =	95.12%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	4.668	57	31866	5.086	ug/ml	97
86) Atrazine	8.948	200	9304	5.061	ug/ml	98
100) n-Octadecane	9.156	57	29654	4.757	ug/ml	95
101) Parathion	9.971	109	3146	5.940	ug/ml	93
102) 3,3'-Dimethylbenzidine	11.273	212	20898	4.736	ug/ml	98

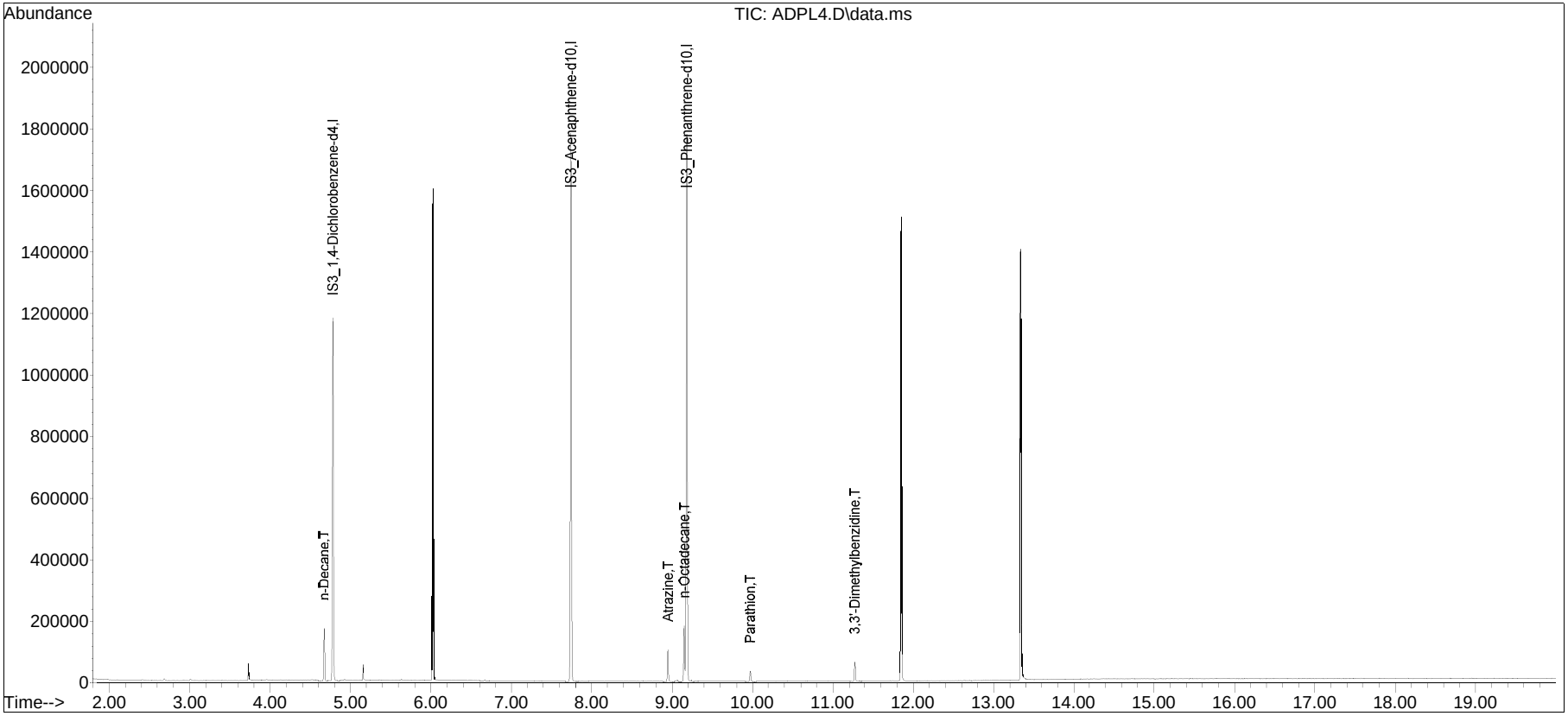
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181205ical\
Data File : ADPL4.D
Acq On : 06 Dec 2018 08:35 am
Operator : sv112:cb
Sample : IL27,32,,ADPL5 Lot#7814
Misc : WG1186464,,
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Dec 06 15:15:24 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 15:15:15 2018
Response via : Initial Calibration

Sub List : ADPical - ADP sublist205ical\ADPL7.D•



Manual Integration Report

Data Path	: I:\8270\SV112\181205ical\	QMethod	: FS181205SV112.m
Data File	: ADPL4.D	Operator	: sv112:cb
Date Inj'd	: 12/6/2018 8:35 am	Instrument	: SV112
Sample	: IL27,32,,ADPL5 Lot#7814	Quant Date	: 12/6/2018 3:15 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181205ical\
Data File : ADPL3.D
Acq On : 06 Dec 2018 09:00 am
Operator : sv112:cb
Sample : IL28,32,,ADPL3 Lot#7813
Misc : WG1186464,,
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Dec 06 13:53:14 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 13:53:04 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\181205ical\ADPL7.D
Sub List : ADPical - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.780	152	169859	40.000	ug/ml	0.00
Standard Area 1 = 170651			Recovery = 99.54%			
85) IS3_Acenaphthene-d10	7.742	164	328862	40.000	ug/ml	0.00
Standard Area 1 = 329645			Recovery = 99.76%			
99) IS3_Phenanthrene-d10	9.184	188	591739	40.000	ug/ml	0.00
Standard Area 1 = 588574			Recovery = 100.54%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	4.668	57	19495	3.033	ug/ml	97
86) Atrazine	8.948	200	5296	3.673	ug/ml	99
100) n-Octadecane	9.156	57	16275	2.470	ug/ml	96
101) Parathion	9.974	109	2005	5.141	ug/ml#	86
102) 3,3'-Dimethylbenzidine	11.273	212	10653	3.622	ug/ml	98

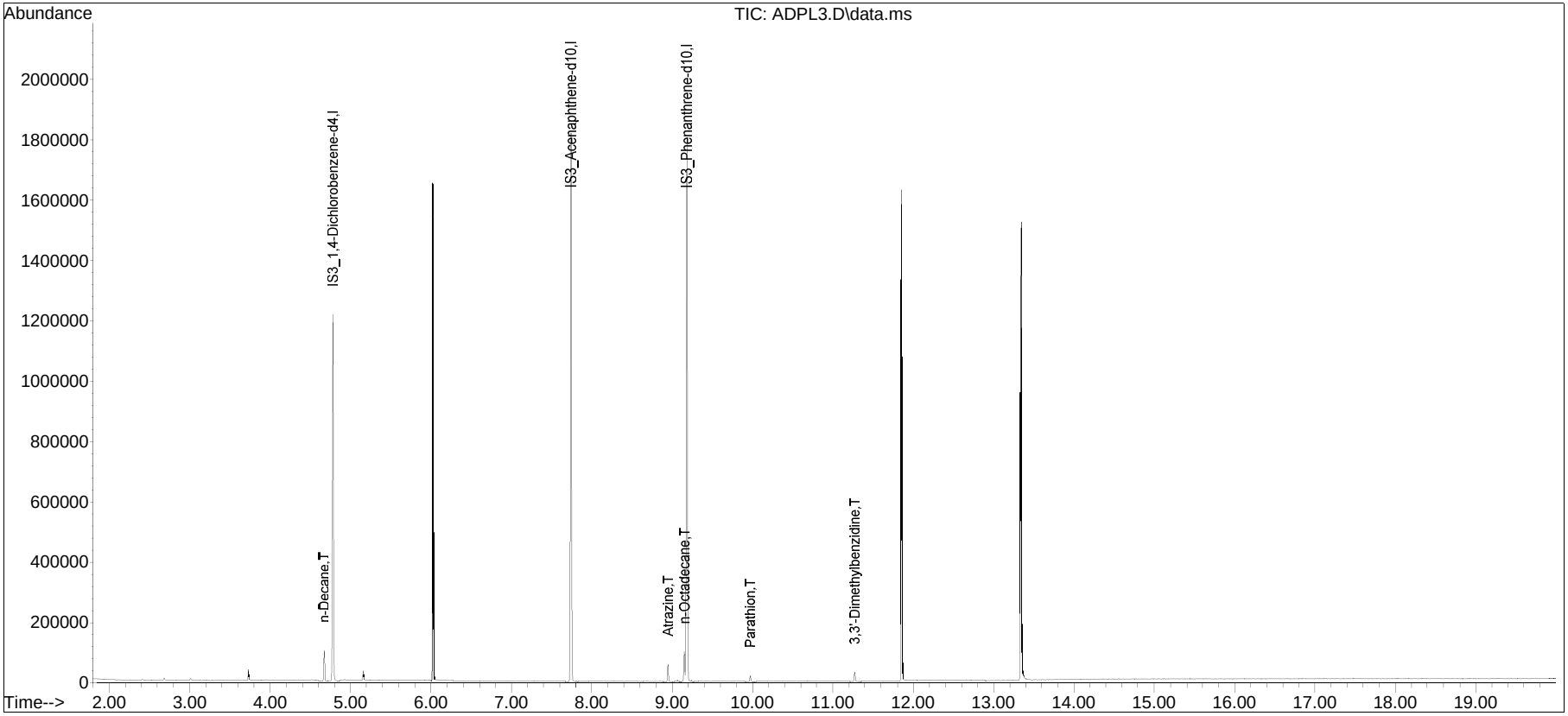
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181205ical\
Data File : ADPL3.D
Acq On : 06 Dec 2018 09:00 am
Operator : sv112:cb
Sample : IL28,32,,ADPL3 Lot#7813
Misc : WG1186464,,
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Dec 06 13:53:14 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 13:53:04 2018
Response via : Initial Calibration

Sub List : ADPical - ADP sublist205ical\ADPL7.D•



Manual Integration Report

Data Path	: I:\8270\SV112\181205ical\	QMethod	: FS181205SV112.m
Data File	: ADPL3.D	Operator	: sv112:cb
Date Inj'd	: 12/6/2018 9:00 am	Instrument	: SV112
Sample	: IL28,32,,ADPL3 Lot#7813	Quant Date	: 12/6/2018 1:53 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181205ical\
Data File : ADPL2.D
Acq On : 06 Dec 2018 09:26 am
Operator : sv112:cb
Sample : IL29,32,,ADPL2 Lot#7812
Misc : WG1186464,,
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Dec 06 13:39:11 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 13:31:09 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\181205ical\ADPL7.D
Sub List : ADPical - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.780	152	168373	40.000	ug/ml	0.00
Standard Area 1 = 170651			Recovery =	98.67%		
85) IS3_Acenaphthene-d10	7.742	164	320579	40.000	ug/ml	0.00
Standard Area 1 = 329645			Recovery =	97.25%		
99) IS3_Phenanthrene-d10	9.184	188	563348	40.000	ug/ml	0.00
Standard Area 1 = 588574			Recovery =	95.71%		
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	4.668	57	13115	2.109	ug/ml	99
86) Atrazine	8.945	200	3393	1.268	ug/ml#	75
100) n-Octadecane	9.156	57	10020	1.398	ug/ml	97
101) Parathion	9.971	109	1072	0.671	ug/ml#	83
102) 3,3'-Dimethylbenzidine	11.276	212	5923	0.585	ug/ml#	61

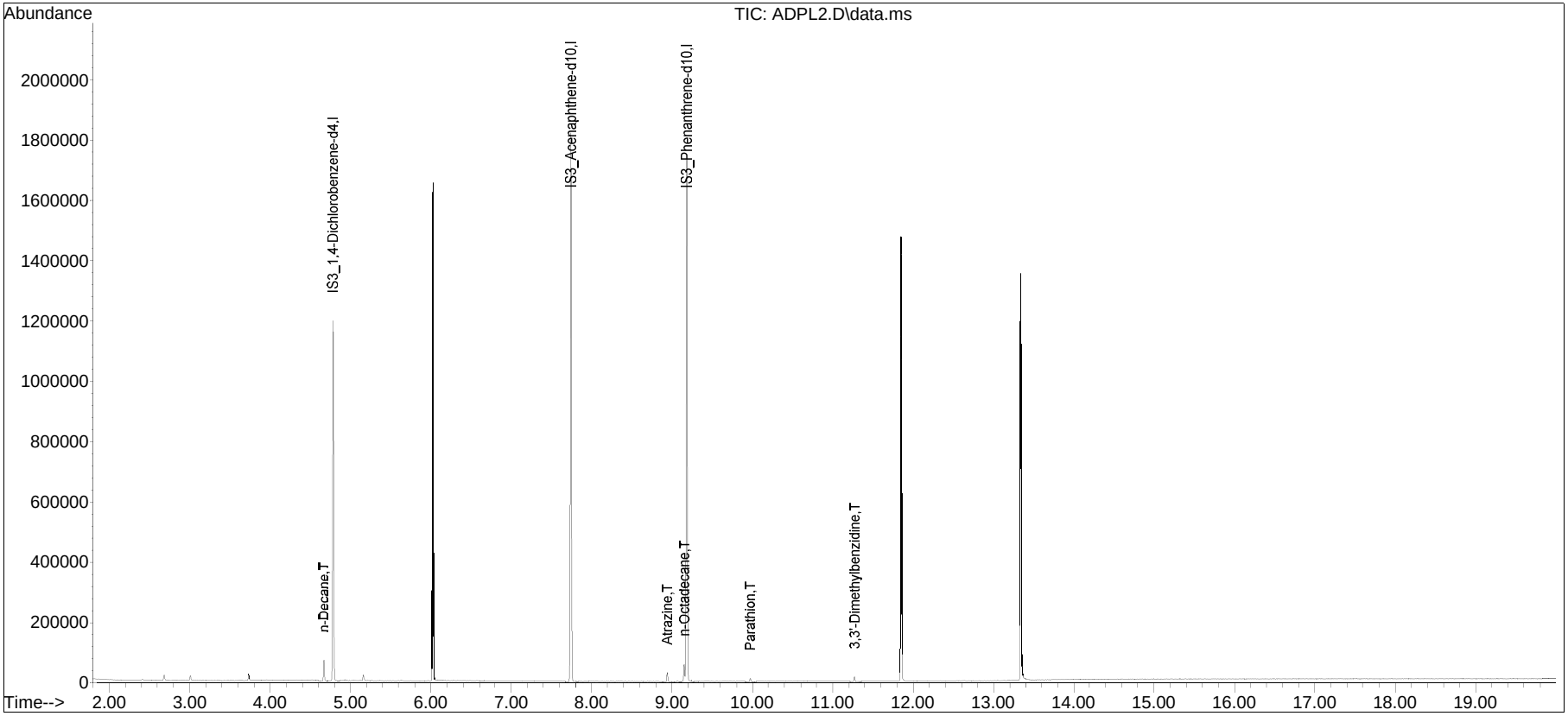
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181205ical\
Data File : ADPL2.D
Acq On : 06 Dec 2018 09:26 am
Operator : sv112:cb
Sample : IL29,32,,ADPL2 Lot#7812
Misc : WG1186464,,
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Dec 06 13:39:11 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 13:31:09 2018
Response via : Initial Calibration

Sub List : ADPical - ADP sublist205ical\ADPL7.D•



Manual Integration Report

Data Path	: I:\8270\SV112\181205ical\	QMethod	: FS181205SV112.m
Data File	: ADPL2.D	Operator	: sv112:cb
Date Inj'd	: 12/6/2018 9:26 am	Instrument	: SV112
Sample	: IL29,32,,ADPL2 Lot#7812	Quant Date	: 12/6/2018 1:34 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181205ical\
Data File : ADPL1.D
Acq On : 06 Dec 2018 09:51 am
Operator : sv112:cb
Sample : IL30,32,,ADPL1 Lot#7811
Misc : WG1186464,,
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Dec 06 13:37:43 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 13:31:09 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\181205ical\ADPL7.D
Sub List : ADPical - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.780	152	172303	40.000	ug/ml	0.00
Standard Area 1 = 170651			Recovery = 100.97%			
85) IS3_Acenaphthene-d10	7.742	164	346831	40.000	ug/ml	0.00
Standard Area 1 = 329645			Recovery = 105.21%			
99) IS3_Phenanthrene-d10	9.184	188	613963	40.000	ug/ml	0.00
Standard Area 1 = 588574			Recovery = 104.31%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	4.668	57	6844	1.075	ug/ml	97
86) Atrazine	8.945	200	1573	0.543	ug/ml#	37
100) n-Octadecane	9.156	57	5057	0.647	ug/ml	98
101) Parathion	9.971	109	573M2	0.329	ug/ml	
102) 3,3'-Dimethylbenzidine	11.273	212	2745	0.249	ug/ml#	61

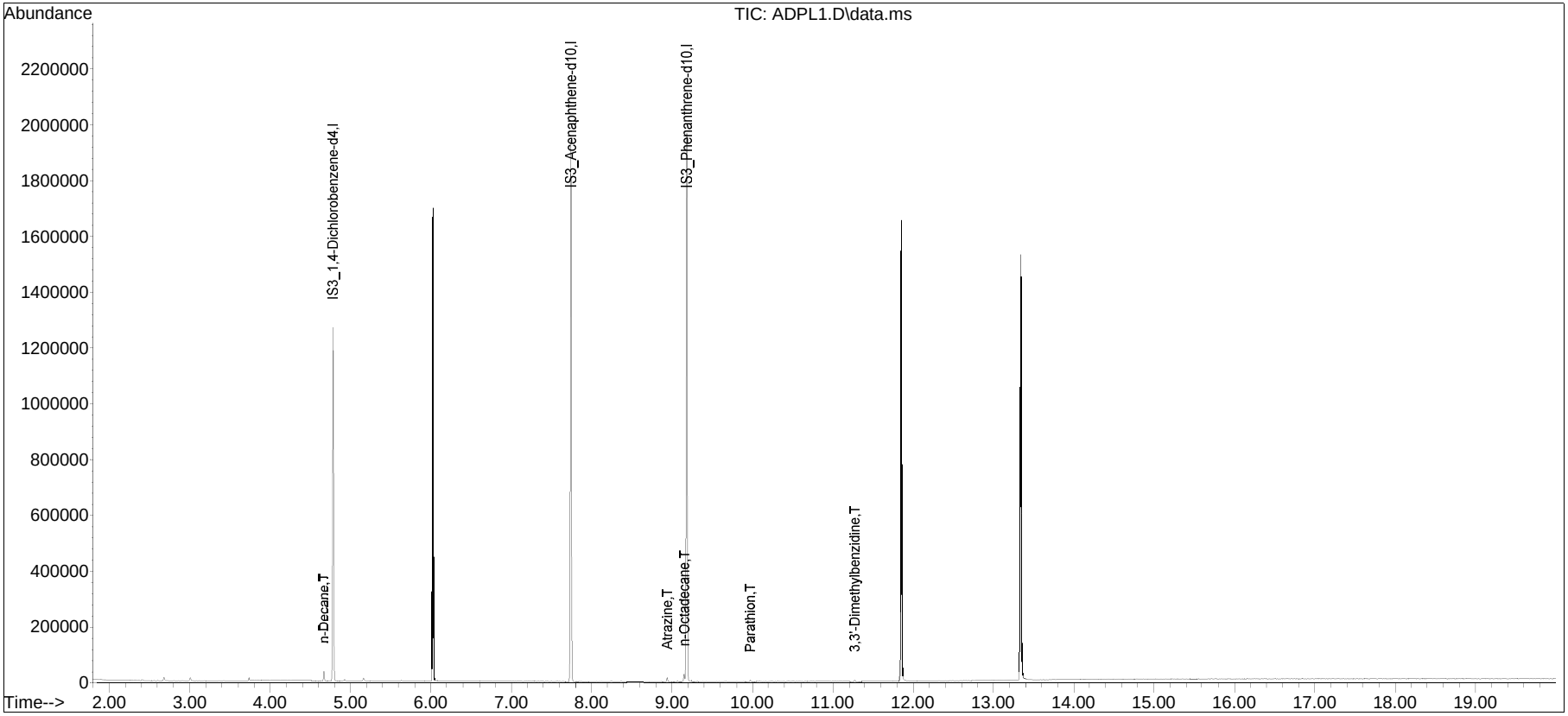
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181205ical\
Data File : ADPL1.D
Acq On : 06 Dec 2018 09:51 am
Operator : sv112:cb
Sample : IL30,32,,ADPL1 Lot#7811
Misc : WG1186464,,
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Dec 06 13:37:43 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 13:31:09 2018
Response via : Initial Calibration

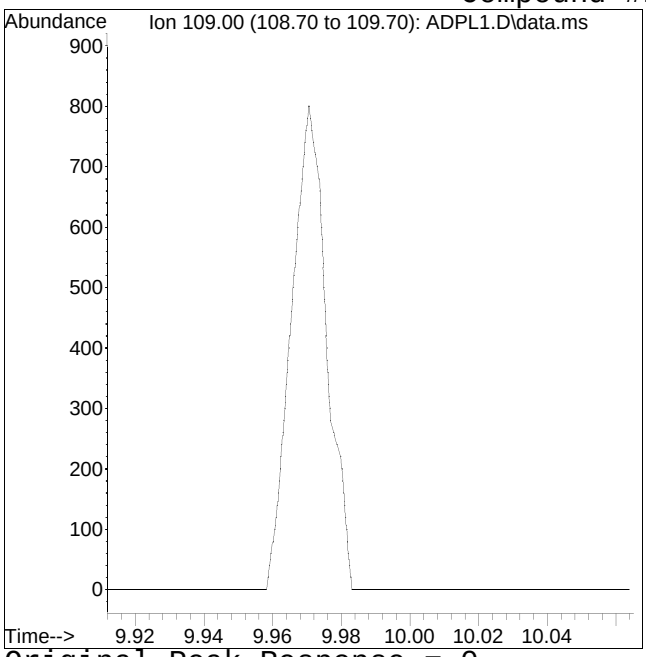
Sub List : ADPical - ADP sublist205ical\ADPL7.D•



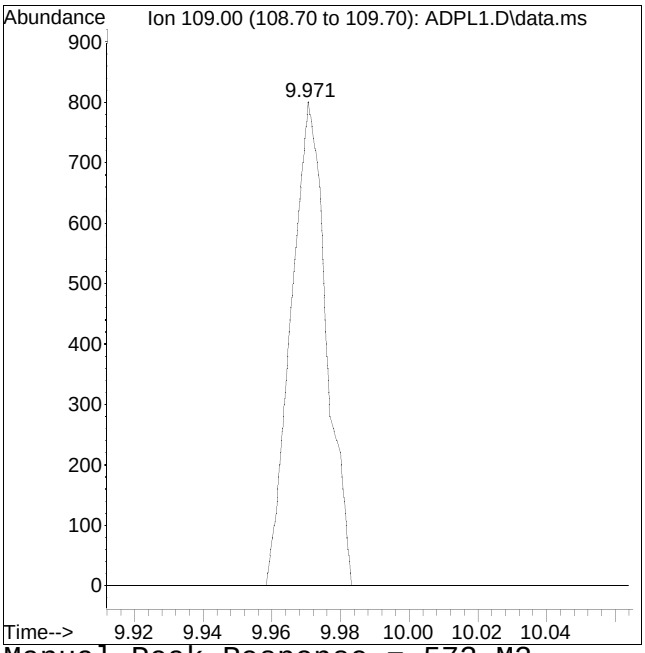
Manual Integration Report

Data Path : I:\8270\SV112\181205ical\ QMethod : FS181205SV112.m
Data File : ADPL1.D Operator : sv112:cb
Date Inj'd : 12/6/2018 9:51 am Instrument : SV112
Sample : IL30,32,,ADPL1 Lot#7811 Quant Date : 12/6/2018 1:34 pm

Compound #101: Parathion



Original Peak Response = 0



Manual Peak Response = 573 M2

M2 = Peak not found by automatic integration algorithm.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV112\181205ical\
Data File : ADPICV.D
Acq On : 06 Dec 2018 10:17 am
Operator : sv112:cb
Sample : CQICV3,32,,ADP ICV LOT# Lot#7809
Misc : WG1186464,,
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Dec 06 13:53:55 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 13:53:47 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
32	I	IS3_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	117	0.00
33	T	n-Decane		1.514	1.405	7.2	112	0.00
85	I	IS3_Acenaphthene-d10		1.000	1.000	0.0	131	0.00
86	T	Atrazine	*	50.000	47.344	5.3	136	0.00
99	I	IS3_Phenanthrene-d10		1.000	1.000	0.0	138	0.00
100	T	n-Octadecane		0.445	0.483	-8.5	131	0.00
101	T	Parathion	*	50.000	48.606	2.8	135	0.00
102	T	3,3'-Dimethylbenzidine	*	50.000	50.886	-1.8	138	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181205ical\
Data File : ADPICV.D
Acq On : 06 Dec 2018 10:17 am
Operator : sv112:cb
Sample : CQICV3,32,,ADP ICV LOT# Lot#7809
Misc : WG1186464,,
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Dec 06 13:53:55 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 13:53:47 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV112\181205ical\ADPL7.D
Sub List : ADPical - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.783	152	200168	40.000	ug/ml	0.00
Standard Area 1 = 170651			Recovery = 117.30%			
85) IS3_Acenaphthene-d10	7.742	164	432971	40.000	ug/ml	0.00
Standard Area 1 = 329645			Recovery = 131.34%			
99) IS3_Phenanthrene-d10	9.184	188	811795	40.000	ug/ml	0.00
Standard Area 1 = 588574			Recovery = 137.93%			
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	4.668	57	351447	46.395	ug/ml	95
86) Atrazine	8.954	200	186821	47.344	ug/ml	99
100) n-Octadecane	9.156	57	489970	54.206	ug/ml	93
101) Parathion	9.974	109	112371	48.606	ug/ml	97
102) 3,3'-Dimethylbenzidine	11.279	212	729069	50.886	ug/ml	98

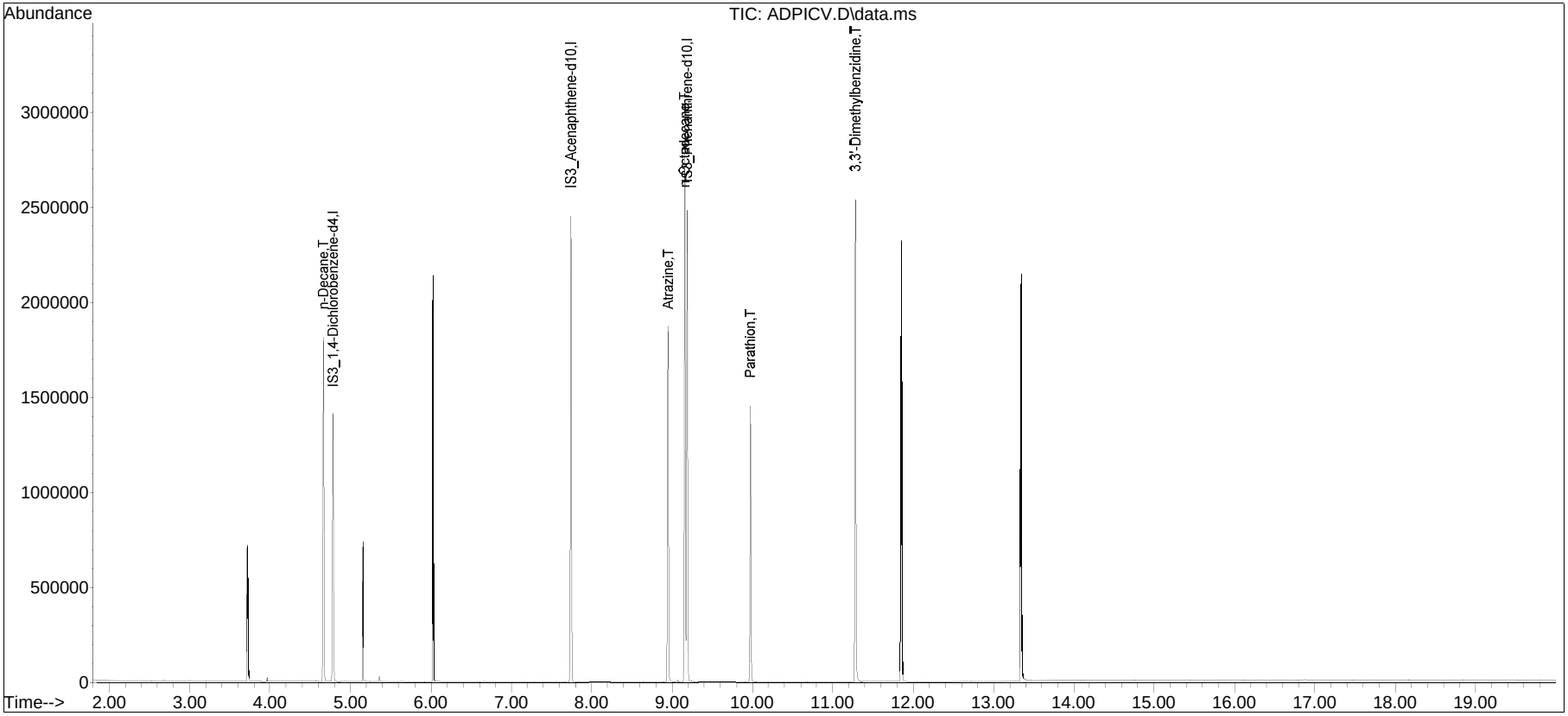
(#) = qualifier out of range (m) = manual integration (+) = signals summed

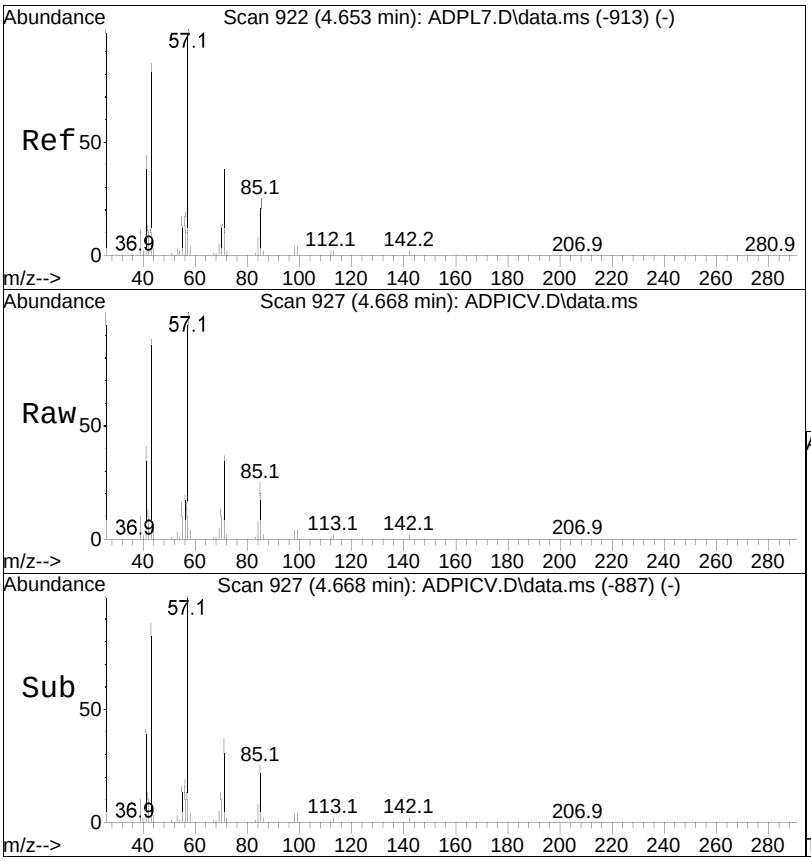
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181205ical\
Data File : ADPICV.D
Acq On : 06 Dec 2018 10:17 am
Operator : sv112:cb
Sample : CQICV3,32,,ADP ICV LOT# Lot#7809
Misc : WG1186464,,
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Dec 06 13:53:55 2018
Quant Method : I:\8270\SV112\181205ical\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 13:53:47 2018
Response via : Initial Calibration

Sub List : ADPical - ADP sublist205ical\ADPL7.D•

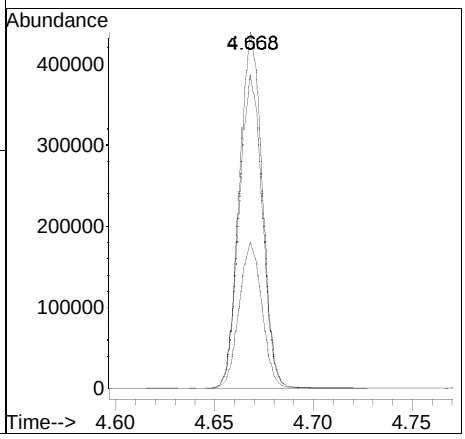


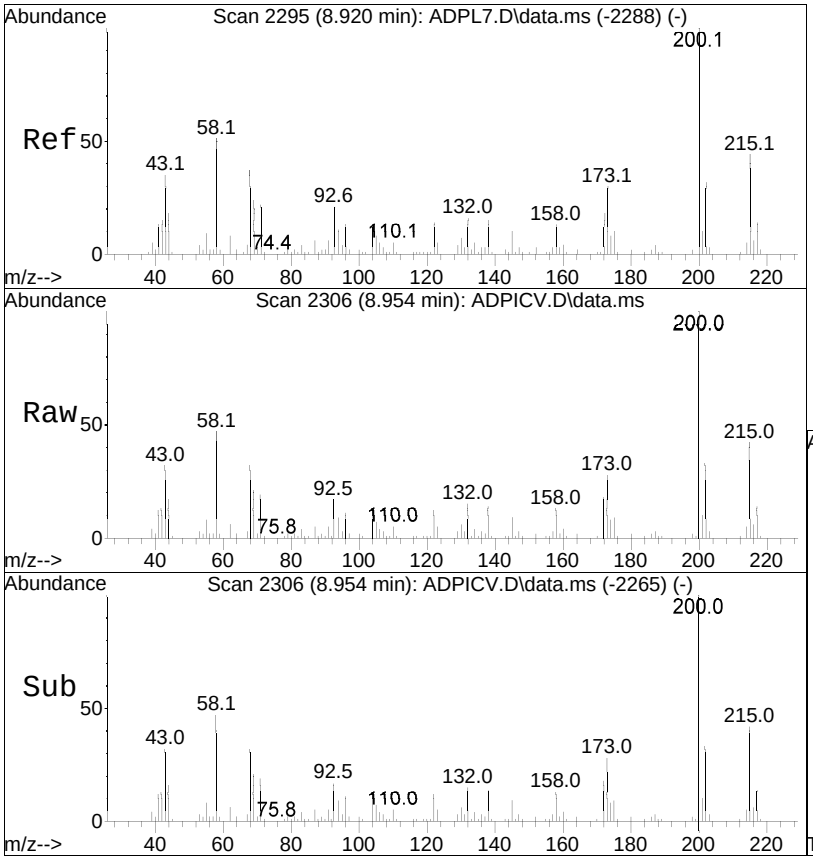


#33
n-Decane
Concen: 46.39 ug/ml
RT: 4.668 min Scan# 927
Delta R.T. 0.000 min
Lab File: ADPICV.D
Acq: 06 Dec 2018 10:17 am

Tgt Ion: 57 Resp: 351447

Ion	Ratio	Lower	Upper
57	100		
43	89.2	75.4	113.2
41	41.2	35.0	52.6

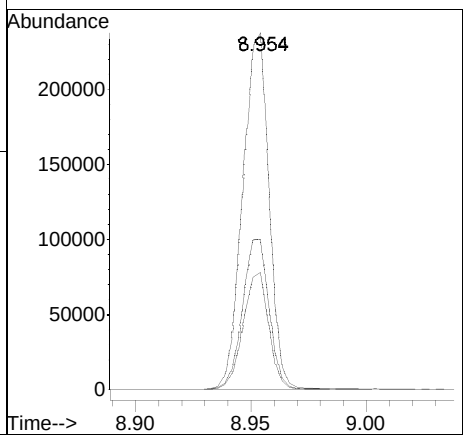


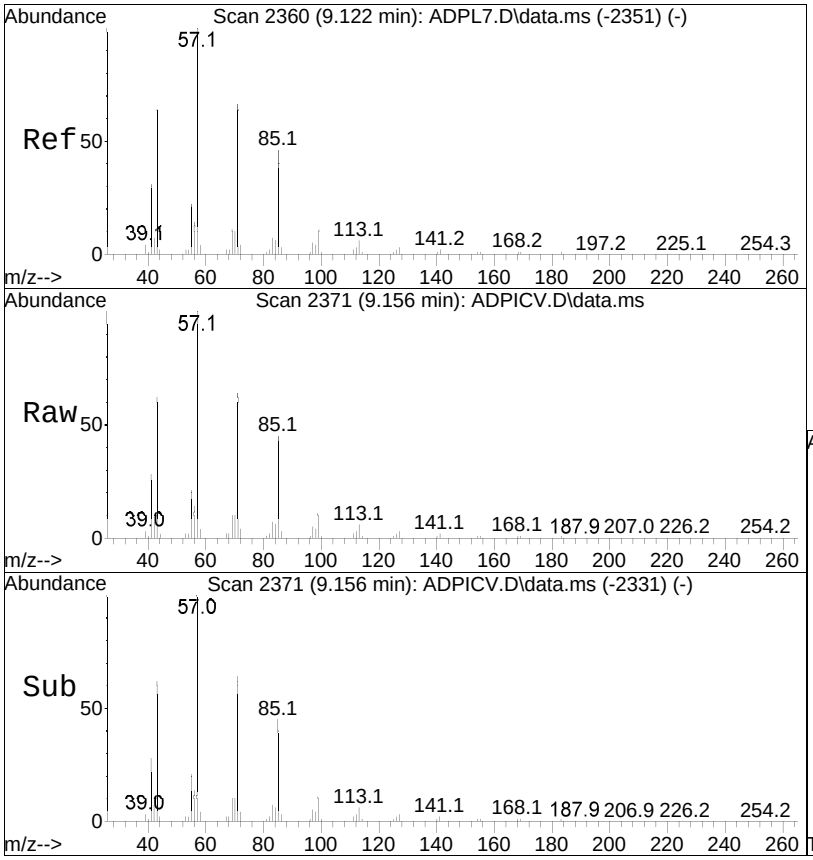


#86
Atrazine
Concen: 47.34 ug/ml
RT: 8.954 min Scan# 2306
Delta R.T. 0.003 min
Lab File: ADPICV.D
Acq: 06 Dec 2018 10:17 am

Tgt Ion:200 Resp: 186821

Ion	Ratio	Lower	Upper
200	100		
202	32.2	25.0	37.6
215	42.6	34.5	51.7

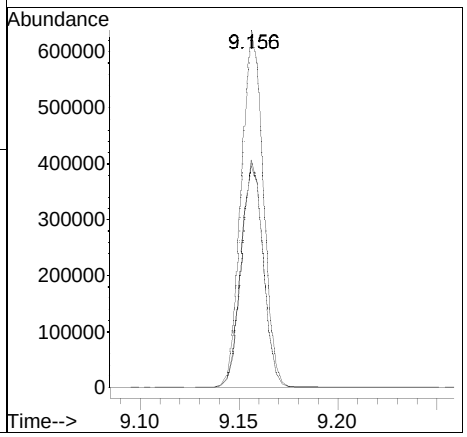


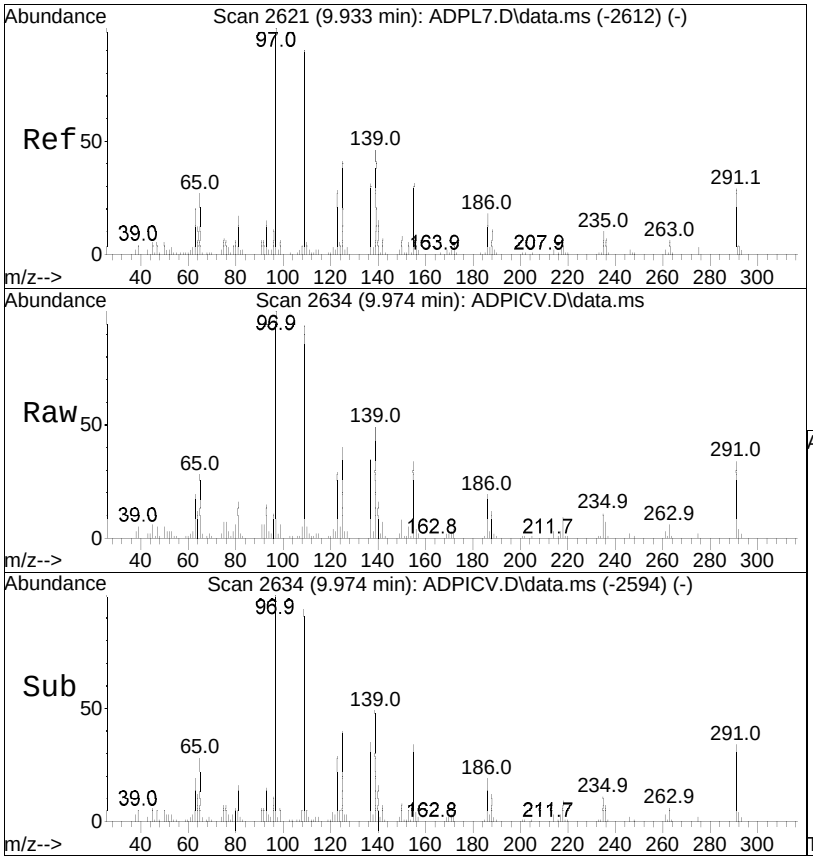


#100
n-Octadecane
Concen: 54.21 ug/ml
RT: 9.156 min Scan# 2371
Delta R.T. 0.000 min
Lab File: ADPICV.D
Acq: 06 Dec 2018 10:17 am

Tgt Ion: 57 Resp: 489970

Ion	Ratio	Lower	Upper
57	100		
43	63.8	54.3	81.5
71	63.0	45.1	67.7

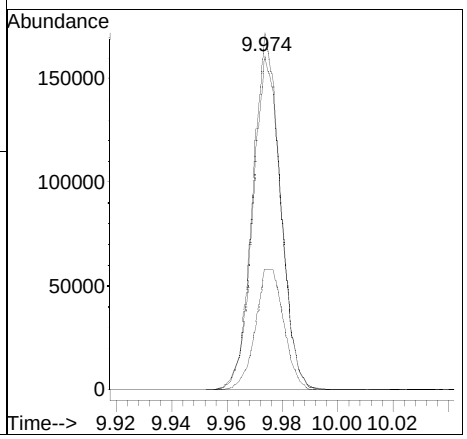


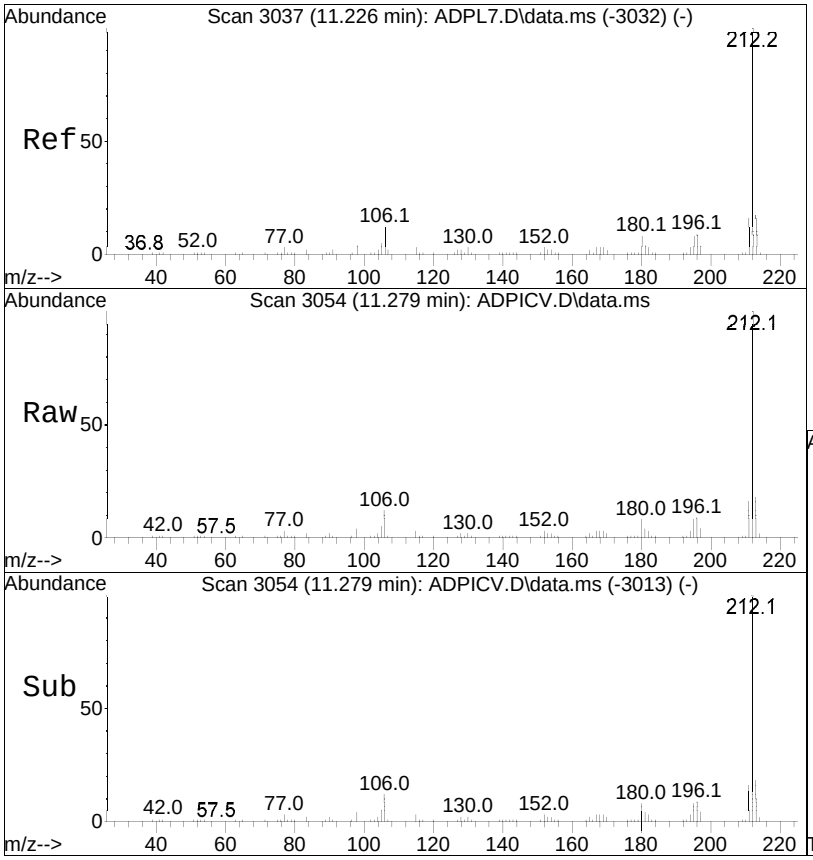


#101
Parathion
Concen: 48.61 ug/ml
RT: 9.974 min Scan# 2634
Delta R.T. -0.000 min
Lab File: ADPICV.D
Acq: 06 Dec 2018 10:17 am

Tgt Ion:109 Resp: 112371

Ion	Ratio	Lower	Upper
109	100		
97	105.3	85.4	128.2
291	36.6	25.4	38.2

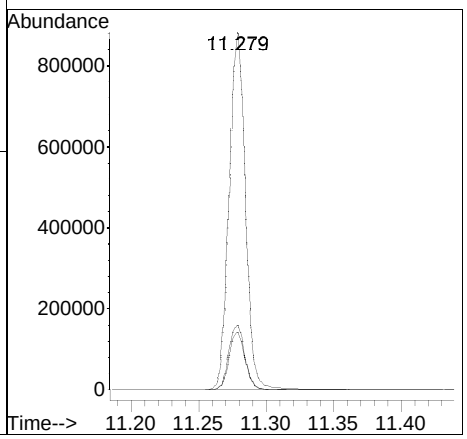




#102
3,3'-Dimethylbenzidine
Concen: 50.89 ug/ml
RT: 11.279 min Scan# 3054
Delta R.T. 0.003 min
Lab File: ADPICV.D
Acq: 06 Dec 2018 10:17 am

Tgt Ion:212 Resp: 729069

Ion	Ratio	Lower	Upper
212	100		
211	16.1	13.3	19.9
213	18.3	13.4	20.2



Manual Integration Report

Data Path	: I:\8270\SV112\181205ical\	QMethod	: FS181205SV112.m
Data File	: ADPICV.D	Operator	: sv112:cb
Date Inj'd	: 12/6/2018 10:17 am	Instrument	: SV112
Sample	: CQICV3,32,,ADP ICV LOT# Lo	Quant Date	: 12/6/2018 1:53 pm

There are no manual integrations or false positives in this file.

Continuing Calibration

Continuing Calibration
Form 7

Client	: CHA Companies	**Lab Number**	: L1849060		
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000		
Instrument ID	: SV109	**Calibration Date**	: 12/05/18 13:33		
Lab File ID	: AP91205	**Init. Calib. Date(s)**	: 10/03/18	10/04/18	
Sample No	: WG1185944-4	**Init. Calib. Times**	: 21:43	11:11	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	67	0
Benzaldehyde	1.112	1.117	-	-0.4	20	64	0
Acetophenone	1.902	1.904	-	-0.1	20	64	0
m-Toluidine	1.869	1.878	-	-0.5	20	65	0
2-Chloroaniline	1.758	1.766	-	-0.5	20	64	0
IS2_Naphthalene-d8	1	1	-	0	20	68	0
a-Terpineol	0.3	0.302	-	-0.7	20	67	0
3-Chloroaniline	0.145	0.135	-	6.9	20	62	0
2,6-Dichlorophenol	0.268	0.265	-	1.1	20	64	0
1-chloro-2-nitrobenzene	0.134	0.142	-	-6	20	69	0
Caprolactam	0.162	0.187	-	-15.4	20	74	0
1,2,4,5-Tetrachlorobenzene	0.317	0.294	-	7.3	20	63	0
Biphenyl	0.795	0.789	-	0.8	20	67	0
IS2_Acenaphthene-d10	1	1	-	0	20	76	0
Dichloran	0.178	0.197	-	-10.7	20	82	0
Pentachloronitrobenzene	0.192	0.181	-	5.7	20	72	0
IS2_Phenanthrene-d10	1	1	-	0	20	75	0
Diphenamid	0.5	0.563	-	-12.6	20	83	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: CHA Companies	**Lab Number**	: L1849060		
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000		
Instrument ID	: SV109	**Calibration Date**	: 12/05/18 13:57		
Lab File ID	: ADP1205	**Init. Calib. Date(s)**	: 10/03/18	10/04/18	
Sample No	: WG1185944-5	**Init. Calib. Times**	: 21:43	11:11	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	72	0
n-Decane	1.586	1.648	-	-3.9	20	74	0
IS3_Acenaphthene-d10	1	1	-	0	20	83	0
Atrazine	0.348	0.437	-	-25.6*	20	94	0
IS3_Phenanthrene-d10	1	1	-	0	20	77	0
n-Octadecane	0.498	0.587	-	-17.9	20	85	0
Parathion	0.133	0.174	-	-30.8*	20	96	0
3,3'-Dimethylbenzidine	0.669	1.002	-	-49.8*	20	102	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: CHA Companies	Lab Number	: L1849060		
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000		
Instrument ID	: SV109	Calibration Date	: 12/05/18 14:22		
Lab File ID	: ABN1205A	Init. Calib. Date(s)	: 10/03/18	10/04/18	
Sample No	: WG1185944-3	Init. Calib. Times	: 21:43	11:11	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	70	0
n-Nitrosodimethylamine	0.832	0.744	-	10.6	20	62	0
Pyridine	1.434	1.209	-	15.7	20	58	0
2-Fluorophenol	1.236	1.216	-	1.6	20	67	0
Aniline	2.063	1.951	-	5.4	20	66	0
2-Chlorophenol	1.426	1.435	-	-0.6	20	69	0
Phenol-d6	1.536	1.509	-	1.8	20	67	0
Phenol	1.655	1.711	-	-3.4	20	71	0
Bis(2-chloroethyl)ether	1.336	1.202	-	10	20	63	0
1,3-Dichlorobenzene	1.604	1.48	-	7.7	20	64	0
1,4-Dichlorobenzene	1.649	1.504	-	8.8	20	65	0
1,2-Dichlorobenzene	1.595	1.435	-	10	20	64	0
Benzyl alcohol	1.108	1.076	-	2.9	20	64	0
Bis(2-chloroisopropyl)ethe	2.247	2.767	-	-23.1*	20	86	0
2-Methylphenol	1.248	1.219	-	2.3	20	67	0
Hexachloroethane	0.661	0.598	-	9.5	20	64	0
n-Nitrosodi-n-propylamine	0.97	0.966	-	0.4	20	68	0
3-Methylphenol/4-Methylphe	1.301	1.305	-	-0.3	20	68	0
Nitrobenzene-d5	1.445	1.407	-	2.6	20	67	0
Nitrobenzene	1.476	1.42	-	3.8	20	66	0
Isophorone	2.64	2.546	-	3.6	20	66	0
2-Nitrophenol	0.695	0.806	-	-16	20	74	0
2,4-Dimethylphenol	1.262	1.329	-	-5.3	20	70	0
Bis(2-chloroethoxy)methane	1.706	1.654	-	3	20	67	0
2,4-Dichlorophenol	1.178	1.206	-	-2.4	20	69	0
1,2,4-Trichlorobenzene	1.373	1.294	-	5.8	20	67	0
IS1_Naphthalene-d8	1	1	-	0	20	73	0
Naphthalene	1.043	1.005	-	3.6	20	70	0
Benzoic Acid	50	50.844	-	-1.7	20	77	0
4-Chloroaniline	0.131	0.129	-	1.5	20	68	0
Hexachlorobutadiene	0.194	0.168	-	13.4	20	63	0
p-Chloro-m-cresol	0.28	0.304	-	-8.6	20	74	0
2-Methylnaphthalene	0.694	0.689	-	0.7	20	71	0
1-Methylnaphthalene	0.245	0.236	-	3.7	20	70	0
Hexachlorocyclopentadiene	0.23	0.199	-	13.5	20	62	0
2,4,6-Trichlorophenol	0.202	0.218	-	-7.9	20	73	0
2,4,5-Trichlorophenol	0.217	0.231	-	-6.5	20	73	0
2-Fluorobiphenyl	0.77	0.749	-	2.7	20	70	0
2-Chloronaphthalene	0.652	0.648	-	0.6	20	71	0
2-Nitroaniline	0.206	0.24	-	-16.5	20	78	0
1,4-Dinitrobenzene	0.095	0.111	-	-16.8	20	82	0
1,3-Dinitrobenzene	0.111	0.124	-	-11.7	20	78	0
Dimethyl phthalate	0.772	0.818	-	-6	20	75	0
Acenaphthylene	1.05	1.065	-	-1.4	20	72	0
2,6-Dinitrotoluene	0.161	0.178	-	-10.6	20	75	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: CHA Companies	Lab Number	: L1849060		
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000		
Instrument ID	: SV109	Calibration Date	: 12/05/18 14:22		
Lab File ID	: ABN1205A	Init. Calib. Date(s)	: 10/03/18	10/04/18	
Sample No	: WG1185944-3	Init. Calib. Times	: 21:43	11:11	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dinitrobenzene	0.072	0.078	-	-8.3	20	76	0
IS1_Acenaphthene-d10	1	1	-	0	20	80	0
3-Nitroaniline	0.369	0.387	-	-4.9	20	78	0
Acenaphthene	1.223	1.096	-	10.4	20	73	0
2,4-Dinitrophenol	50	55.474	-	-10.9	20	96	0
Dibenzofuran	1.919	1.731	-	9.8	20	73	0
2,4-Dinitrotoluene	0.43	0.456	-	-6	20	77	0
4-Nitrophenol	0.307	0.305	-	0.7	20	76	0
2,3,5,6-Tetrachlorophenol	0.371	0.361	-	2.7	20	72	0
2,3,4,6-Tetrachlorophenol	0.393	0.365	-	7.1	20	72	0
Diethyl phthalate	1.609	1.607	-	0.1	20	77	0
Fluorene	1.483	1.39	-	6.3	20	74	0
4-Chlorophenyl phenyl ethe	0.717	0.67	-	6.6	20	74	0
4-Nitroaniline	0.366	0.394	-	-7.7	20	78	0
4,6-Dinitro-o-cresol	50	55.198	-	-10.4	20	91	0
NDPA/DPA	1.257	1.219	-	3	20	76	0
Azobenzene	1.532	1.391	-	9.2	20	71	0
2,4,6-Tribromophenol	0.265	0.23	-	13.2	20	65	0
4-Bromophenyl phenyl ether	0.438	0.394	-	10	20	72	0
Hexachlorobenzene	0.542	0.446	-	17.7	20	66	0
Pentachlorophenol	50	43.118	-	13.8	20	73	0
IS1_Phenanthrene-d10	1	1	-	0	20	79	0
Phenanthrene	1.13	1.075	-	4.9	20	75	0
Anthracene	1.122	1.099	-	2	20	75	0
Carbazole	1.043	1.068	-	-2.4	20	78	0
Di-n-butylphthalate	1.303	1.445	-	-10.9	20	81	0
Fluoranthene	1.196	1.245	-	-4.1	20	80	0
Benzidine	0.75	0.821	-	-9.5	20	81	0
Pyrene	1.257	1.292	-	-2.8	20	79	0
4-Terphenyl-d14	0.94	0.957	-	-1.8	20	77	0
Butyl benzyl phthalate	0.566	0.684	-	-20.8*	20	87	0
IS1_Chrysene-d12	1	1	-	0	20	78	0
Benzo(a)anthracene	1.227	1.244	-	-1.4	20	80	0
3,3'-Dichlorobenzidine	0.482	0.506	-	-5	20	77	0
Chrysene	1.177	1.17	-	0.6	20	80	0
Bis(2-ethylhexyl)phthalate	0.8	0.985	-	-23.1*	20	86	0
Di-n-octylphthalate	1.32	1.726	-	-30.8*	20	90	0
Benzo(b)fluoranthene	1.108	1.208	-	-9	20	83	0
Benzo(k)fluoranthene	1.214	1.238	-	-2	20	81	0
Benzo(a)pyrene	1.118	1.2	-	-7.3	20	82	0
IS1_Perylene-d12	1	1	-	0	20	83	0
Indeno(1,2,3-cd)pyrene	1.019	1.107	-	-8.6	20	85	0
Dibenzo(a,h)anthracene	1.072	1.118	-	-4.3	20	82	0
Benzo(ghi)perylene	1.14	1.145	-	-0.4	20	82	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: CHA Companies	Lab Number	: L1849060		
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000		
Instrument ID	: SV112	Calibration Date	: 12/06/18 15:16		
Lab File ID	: ABN1206	Init. Calib. Date(s)	: 12/05/18	12/06/18	
Sample No	: WG1186484-3	Init. Calib. Times	: 20:17	09:51	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	104	0
n-Nitrosodimethylamine	0.931	0.876	-	5.9	20	98	0
Pyridine	1.597	1.569	-	1.8	20	102	0
2-Fluorophenol	1.406	1.325	-	5.8	20	98	0
Aniline	2.267	2.161	-	4.7	20	99	0
2-Chlorophenol	1.497	1.446	-	3.4	20	100	0
Phenol-d6	1.707	1.626	-	4.7	20	99	0
Phenol	1.987	1.907	-	4	20	100	0
Bis(2-chloroethyl)ether	1.434	1.346	-	6.1	20	101	0
1,3-Dichlorobenzene	1.64	1.59	-	3	20	103	0
1,4-Dichlorobenzene	1.671	1.61	-	3.7	20	103	0
1,2-Dichlorobenzene	1.599	1.542	-	3.6	20	104	0
Benzyl alcohol	1.137	1.088	-	4.3	20	96	0
Bis(2-chloroisopropyl)ethe	2.014	1.817	-	9.8	20	97	0
2-Methylphenol	1.334	1.32	-	1	20	102	0
Hexachloroethane	0.62	0.591	-	4.7	20	100	0
n-Nitrosodi-n-propylamine	1.005	0.94	-	6.5	20	96	0
3-Methylphenol/4-Methylphe	1.399	1.372	-	1.9	20	100	0
Nitrobenzene-d5	1.487	1.398	-	6	20	98	0
Nitrobenzene	1.521	1.45	-	4.7	20	98	0
Isophorone	2.675	2.602	-	2.7	20	98	0
2-Nitrophenol	0.726	0.67	-	7.7	20	94	0
2,4-Dimethylphenol	1.404	1.374	-	2.1	20	100	0
Bis(2-chloroethoxy)methane	1.781	1.724	-	3.2	20	101	0
2,4-Dichlorophenol	1.165	1.168	-	-0.3	20	102	0
1,2,4-Trichlorobenzene	1.279	1.266	-	1	20	105	0
IS1_Naphthalene-d8	1	1	-	0	20	103	0
Naphthalene	1.082	1.041	-	3.8	20	103	0
Benzoic Acid	50	41.154	-	17.7	20	82	0
4-Chloroaniline	0.13	0.122	-	6.2	20	97	0
Hexachlorobutadiene	0.162	0.161	-	0.6	20	106	0
p-Chloro-m-cresol	0.297	0.289	-	2.7	20	99	0
2-Methylnaphthalene	0.703	0.692	-	1.6	20	104	0
1-Methylnaphthalene	0.24	0.231	-	3.7	20	103	0
Hexachlorocyclopentadiene	0.185	0.178	-	3.8	20	99	0
2,4,6-Trichlorophenol	0.185	0.188	-	-1.6	20	99	0
2,4,5-Trichlorophenol	0.202	0.203	-	-0.5	20	102	0
2-Fluorobiphenyl	0.731	0.727	-	0.5	20	104	0
2-Chloronaphthalene	0.629	0.627	-	0.3	20	103	0
2-Nitroaniline	0.211	0.203	-	3.8	20	96	0
1,4-Dinitrobenzene	0.093	0.087	-	6.5	20	96	0
1,3-Dinitrobenzene	0.102	0.103	-	-1	20	100	0
Dimethyl phthalate	0.721	0.729	-	-1.1	20	102	0
Acenaphthylene	1	1.021	-	-2.1	20	102	0
2,6-Dinitrotoluene	0.147	0.153	-	-4.1	20	101	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: CHA Companies		Lab Number	: L1849060	
Project Name	: 700 SMITH BLVD		Project Number	: 29852.1202.44000	
Instrument ID	: SV112		Calibration Date	: 12/06/18 15:16	
Lab File ID	: ABN1206		Init. Calib. Date(s)	: 12/05/18	12/06/18
Sample No	: WG1186484-3		Init. Calib. Times	: 20:17	09:51
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dinitrobenzene	0.064	0.067	-	-4.7	20	100	0
IS1_Acenaphthene-d10	1	1	-	0	20	104	0
3-Nitroaniline	0.381	0.374	-	1.8	20	99	0
Acenaphthene	1.176	1.134	-	3.6	20	104	0
2,4-Dinitrophenol	50	39.867	-	20.3*	20	83	0
Dibenzofuran	1.791	1.731	-	3.4	20	103	0
2,4-Dinitrotoluene	0.381	0.403	-	-5.8	20	100	0
4-Nitrophenol	0.288	0.262	-	9	20	93	0
2,3,5,6-Tetrachlorophenol	0.31	0.302	-	2.6	20	100	0
2,3,4,6-Tetrachlorophenol	0.315	0.314	-	0.3	20	102	0
Diethyl phthalate	1.474	1.449	-	1.7	20	100	0
Fluorene	1.37	1.339	-	2.3	20	102	0
4-Chlorophenyl phenyl ethe	0.642	0.621	-	3.3	20	103	0
4-Nitroaniline	0.375	0.367	-	2.1	20	99	0
4,6-Dinitro-o-cresol	50	43.198	-	13.6	20	90	0
NDPA/DPA	1.184	1.164	-	1.7	20	101	0
Azobenzene	1.407	1.349	-	4.1	20	98	0
2,4,6-Tribromophenol	0.163	0.172	-	-5.5	20	102	0
4-Bromophenyl phenyl ether	0.347	0.334	-	3.7	20	102	0
Hexachlorobenzene	0.383	0.378	-	1.3	20	106	0
Pentachlorophenol	50	43.916	-	12.2	20	97	0
IS1_Phenanthrene-d10	1	1	-	0	20	103	0
Phenanthrene	1.195	1.147	-	4	20	102	0
Anthracene	1.163	1.164	-	-0.1	20	103	0
Carbazole	1.109	1.108	-	0.1	20	101	0
Di-n-butylphthalate	1.282	1.355	-	-5.7	20	97	0
Fluoranthene	1.191	1.205	-	-1.2	20	103	0
Benzidine	0.817	0.79	-	3.3	20	92	0
Pyrene	1.259	1.27	-	-0.9	20	102	0
4-Terphenyl-d14	0.857	0.89	-	-3.9	20	104	0
Butyl benzyl phthalate	0.6	0.569	-	5.2	20	92	0
IS1_Chrysene-d12	1	1	-	0	20	104	0
Benzo(a)anthracene	1.281	1.269	-	0.9	20	103	0
3,3'-Dichlorobenzidine	0.467	0.461	-	1.3	20	98	0
Chrysene	1.238	1.185	-	4.3	20	104	0
Bis(2-ethylhexyl)phthalate	50	45.836	-	8.3	20	98	0
Di-n-octylphthalate	50	42.212	-	15.6	20	91	0
Benzo(b)fluoranthene	1.139	1.199	-	-5.3	20	106	0
Benzo(k)fluoranthene	1.176	1.188	-	-1	20	102	0
Benzo(a)pyrene	1.11	1.141	-	-2.8	20	102	0
IS1_Perylene-d12	1	1	-	0	20	103	0
Indeno(1,2,3-cd)pyrene	1.078	1.092	-	-1.3	20	100	0
Dibenzo(a,h)anthracene	1.09	1.142	-	-4.8	20	103	0
Benzo(ghi)perylene	1.091	1.134	-	-3.9	20	104	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: CHA Companies	**Lab Number**	: L1849060		
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000		
Instrument ID	: SV112	**Calibration Date**	: 12/06/18 15:42		
Lab File ID	: AP91206	**Init. Calib. Date(s)**	: 12/05/18	12/06/18	
Sample No	: WG1186484-4	**Init. Calib. Times**	: 20:17	09:51	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	97	0
Benzaldehyde	1.182	1.185	-	-0.3	20	97	0
Acetophenone	1.98	2.001	-	-1.1	20	97	0
m-Toluidine	1.888	1.966	-	-4.1	20	96	0
2-Chloroaniline	1.754	1.806	-	-3	20	98	0
IS2_Naphthalene-d8	1	1	-	0	20	99	0
a-Terpineol	0.25	0.248	-	0.8	20	93	0
3-Chloroaniline	0.132	0.131	-	0.8	20	97	0
2,6-Dichlorophenol	0.249	0.261	-	-4.8	20	97	0
1-chloro-2-nitrobenzene	0.128	0.131	-	-2.3	20	97	0
Caprolactam	0.13	0.138	-	-6.2	20	95	0
1,2,4,5-Tetrachlorobenzene	0.271	0.272	-	-0.4	20	102	0
Biphenyl	0.771	0.771	-	0	20	99	0
IS2_Acenaphthene-d10	1	1	-	0	20	99	0
Dichloran	50	45.519	-	9	20	96	0
Pentachloronitrobenzene	0.134	0.144	-	-7.5	20	99	0
IS2_Phenanthrene-d10	1	1	-	0	20	100	0
Diphenamid	0.458	0.503	-	-9.8	20	96	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: CHA Companies		**Lab Number**	: L1849060	
Project Name	: 700 SMITH BLVD		**Project Number**	: 29852.1202.44000	
Instrument ID	: SV112		**Calibration Date**	: 12/06/18 16:07	
Lab File ID	: ADP1206		**Init. Calib. Date(s)**	: 12/05/18	12/06/18
Sample No	: WG1186484-5		**Init. Calib. Times**	: 20:17	09:51
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	98	0
n-Decane	1.514	1.45	-	4.2	20	97	0
IS3_Acenaphthene-d10	1	1	-	0	20	101	0
Atrazine	50	44.965	-	10.1	20	99	0
IS3_Phenanthrene-d10	1	1	-	0	20	103	0
n-Octadecane	0.445	0.502	-	-12.8	20	102	0
Parathion	50	46.059	-	7.9	20	95	0
3,3'-Dimethylbenzidine	50	47.818	-	4.4	20	96	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: CHA Companies	Lab Number	: L1849060		
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000		
Instrument ID	: SV103	Calibration Date	: 12/07/18 12:36		
Lab File ID	: ABN1207A	Init. Calib. Date(s)	: 12/05/18	12/06/18	
Sample No	: WG1186894-3	Init. Calib. Times	: 00:09	00:14	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	88	0
n-Nitrosodimethylamine	0.886	0.773	-	12.8	20	85	0
Pyridine	1.385	1.265	-	8.7	20	83	-.03
2-Fluorophenol	1.328	1.355	-	-2	20	92	0
Aniline	2.146	2.122	-	1.1	20	91	0
2-Chlorophenol	1.469	1.534	-	-4.4	20	93	0
Phenol-d6	1.669	1.659	-	0.6	20	90	0
Phenol	1.963	1.87	-	4.7	20	88	0
Bis(2-chloroethyl)ether	1.398	1.323	-	5.4	20	89	0
1,3-Dichlorobenzene	1.546	1.585	-	-2.5	20	92	0
1,4-Dichlorobenzene	1.595	1.611	-	-1	20	92	0
1,2-Dichlorobenzene	1.517	1.526	-	-0.6	20	91	0
Benzyl alcohol	1.163	1.091	-	6.2	20	84	0
Bis(2-chloroisopropyl)ethe	2.866	2.189	-	23.6*	20	78	0
2-Methylphenol	1.31	1.345	-	-2.7	20	93	0
Hexachloroethane	0.61	0.609	-	0.2	20	92	0
n-Nitrosodi-n-propylamine	1.038	0.93	-	10.4	20	81	-.01
3-Methylphenol/4-Methylphe	1.366	1.453	-	-6.4	20	95	0
Nitrobenzene-d5	1.544	1.431	-	7.3	20	83	0
Nitrobenzene	1.561	1.422	-	8.9	20	83	0
Isophorone	2.651	2.672	-	-0.8	20	90	-.02
2-Nitrophenol	0.757	0.84	-	-11	20	93	0
2,4-Dimethylphenol	1.321	1.29	-	2.3	20	87	0
Bis(2-chloroethoxy)methane	1.699	1.723	-	-1.4	20	92	0
2,4-Dichlorophenol	1.083	1.208	-	-11.5	20	96	0
1,2,4-Trichlorobenzene	1.189	1.223	-	-2.9	20	91	0
IS1_Naphthalene-d8	1	1	-	0	20	85	0
Naphthalene	0.983	1.072	-	-9.1	20	94	0
Benzoic Acid	0.249	0.294	-	-18.1	20	100	0
4-Chloroaniline	0.124	0.117	-	5.6	20	83	0
Hexachlorobutadiene	0.125	0.13	-	-4	20	88	0
p-Chloro-m-cresol	0.269	0.297	-	-10.4	20	93	0
2-Methylnaphthalene	0.649	0.703	-	-8.3	20	92	0
1-Methylnaphthalene	0.206	0.202	-	1.9	20	84	0
Hexachlorocyclopentadiene	0.153	0.152	-	0.7	20	81	0
2,4,6-Trichlorophenol	0.166	0.193	-	-16.3	20	93	0
2,4,5-Trichlorophenol	0.174	0.209	-	-20.1*	20	96	0
2-Fluorobiphenyl	0.623	0.711	-	-14.1	20	95	0
2-Chloronaphthalene	0.562	0.635	-	-13	20	95	0
2-Nitroaniline	0.201	0.247	-	-22.9*	20	98	0
1,4-Dinitrobenzene	0.092	0.11	-	-19.6	20	98	0
1,3-Dinitrobenzene	0.1	0.12	-	-20	20	95	0
Dimethyl phthalate	0.636	0.736	-	-15.7	20	94	-.01
Acenaphthylene	0.926	1.065	-	-15	20	94	0
2,6-Dinitrotoluene	0.14	0.171	-	-22.1*	20	94	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: CHA Companies	Lab Number	: L1849060		
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000		
Instrument ID	: SV103	Calibration Date	: 12/07/18 12:36		
Lab File ID	: ABN1207A	Init. Calib. Date(s)	: 12/05/18	12/06/18	
Sample No	: WG1186894-3	Init. Calib. Times	: 00:09	00:14	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dinitrobenzene	0.066	0.078	-	-18.2	20	97	0
IS1_Acenaphthene-d10	1	1	-	0	20	87	0
3-Nitroaniline	0.384	0.456	-	-18.8	20	96	0
Acenaphthene	1.205	1.264	-	-4.9	20	93	0
2,4-Dinitrophenol	0.214	0.239	-	-11.7	20	95	0
Dibenzofuran	1.756	1.895	-	-7.9	20	94	0
2,4-Dinitrotoluene	0.409	0.484	-	-18.3	20	95	0
4-Nitrophenol	0.334	0.321	-	3.9	20	84	0
2,3,5,6-Tetrachlorophenol	0.303	0.342	-	-12.9	20	96	0
2,3,4,6-Tetrachlorophenol	0.307	0.34	-	-10.7	20	95	0
Diethyl phthalate	1.499	1.626	-	-8.5	20	94	0
Fluorene	1.412	1.536	-	-8.8	20	94	0
4-Chlorophenyl phenyl ethe	0.61	0.644	-	-5.6	20	93	0
4-Nitroaniline	0.379	0.467	-	-23.2*	20	99	0
4,6-Dinitro-o-cresol	0.245	0.279	-	-13.9	20	97	0
NDPA/DPA	1.192	1.302	-	-9.2	20	94	0
Azobenzene	1.598	1.566	-	2	20	87	0
2,4,6-Tribromophenol	0.166	0.197	-	-18.7	20	98	0
4-Bromophenyl phenyl ether	0.328	0.358	-	-9.1	20	95	0
Hexachlorobenzene	0.355	0.396	-	-11.5	20	96	0
Pentachlorophenol	0.225	0.255	-	-13.3	20	94	0
IS1_Phenanthrene-d10	1	1	-	0	20	86	0
Phenanthrene	1.103	1.169	-	-6	20	94	0
Anthracene	1.097	1.179	-	-7.5	20	93	0
Carbazole	1.017	1.155	-	-13.6	20	97	0
Di-n-butylphthalate	1.302	1.498	-	-15.1	20	96	0
Fluoranthene	1.08	1.186	-	-9.8	20	96	0
Benzidine	0.741	0.914	-	-23.3*	20	109	0
Pyrene	1.12	1.203	-	-7.4	20	94	0
4-Terphenyl-d14	0.779	0.829	-	-6.4	20	92	0
Butyl benzyl phthalate	0.577	0.672	-	-16.5	20	99	0
IS1_Chrysene-d12	1	1	-	0	20	85	0
Benzo(a)anthracene	1.177	1.273	-	-8.2	20	93	0
3,3'-Dichlorobenzidine	0.428	0.502	-	-17.3	20	95	0
Chrysene	1.112	1.216	-	-9.4	20	94	0
Bis(2-ethylhexyl)phthalate	0.93	1.138	-	-22.4*	20	100	0
Di-n-octylphthalate	1.608	2.018	-	-25.5*	20	102	0
Benzo(b)fluoranthene	1.078	1.22	-	-13.2	20	93	0
Benzo(k)fluoranthene	1.082	1.192	-	-10.2	20	92	0
Benzo(a)pyrene	1.045	1.181	-	-13	20	92	0
IS1_Perylene-d12	1	1	-	0	20	81	.01
Indeno(1,2,3-cd)pyrene	1.003	1.1	-	-9.7	20	87	.01
Dibenzo(a,h)anthracene	1.025	1.115	-	-8.8	20	87	.01
Benzo(ghi)perylene	1.063	1.124	-	-5.7	20	85	.02

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: CHA Companies		**Lab Number**	: L1849060	
Project Name	: 700 SMITH BLVD		**Project Number**	: 29852.1202.44000	
Instrument ID	: SV103		**Calibration Date**	: 12/07/18 13:02	
Lab File ID	: AP91207A		**Init. Calib. Date(s)**	: 12/05/18	12/06/18
Sample No	: WG1186894-4		**Init. Calib. Times**	: 00:09	00:14
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	94	0
Benzaldehyde	1.166	1.265	-	-8.5	20	103	0
Acetophenone	1.889	2.067	-	-9.4	20	101	0
m-Toluidine	2.006	2.116	-	-5.5	20	96	0
2-Chloroaniline	1.798	1.952	-	-8.6	20	99	0
IS2_Naphthalene-d8	1	1	-	0	20	90	0
a-Terpineol	0.305	0.279	-	8.5	20	81	0
3-Chloroaniline	0.141	0.127	-	9.9	20	83	0
2,6-Dichlorophenol	0.232	0.277	-	-19.4	20	104	0
1-chloro-2-nitrobenzene	0.126	0.14	-	-11.1	20	96	0
Caprolactam	0.17	0.171	-	-0.6	20	89	0
1,2,4,5-Tetrachlorobenzene	0.217	0.252	-	-16.1	20	102	0
Biphenyl	0.702	0.793	-	-13	20	101	0
IS2_Acenaphthene-d10	1	1	-	0	20	93	0
Dichloran	0.136	0.187	-	-37.5*	20	122	0
Pentachloronitrobenzene	0.123	0.136	-	-10.6	20	102	0
IS2_Phenanthrene-d10	1	1	-	0	20	96	0
Diphenamid	0.476	0.56	-	-17.6	20	110	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: CHA Companies	**Lab Number**	: L1849060		
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000		
Instrument ID	: SV103	**Calibration Date**	: 12/07/18 14:18		
Lab File ID	: ADP1207B	**Init. Calib. Date(s)**	: 12/05/18	12/06/18	
Sample No	: WG1186894-5	**Init. Calib. Times**	: 00:09	00:14	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	122	0
n-Decane	0.976	1.474	-	-51*	20	182	0
IS3_Acenaphthene-d10	1	1	-	0	20	129	0
Atrazine	0.31	0.317	-	-2.3	20	127	0
IS3_Phenanthrene-d10	1	1	-	0	20	118	0
n-Octadecane	0.386	0.562	-	-45.6*	20	172	0
Parathion	50	59.746	-	-19.5	20	147	0
3,3'-Dimethylbenzidine	0.671	0.822	-	-22.5*	20	139	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: CHA Companies	Lab Number	: L1849060		
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000		
Instrument ID	: SV103	Calibration Date	: 12/09/18 16:59		
Lab File ID	: ABN1209	Init. Calib. Date(s)	: 12/05/18	12/06/18	
Sample No	: WG1187317-3	Init. Calib. Times	: 00:09	00:14	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	76	0
n-Nitrosodimethylamine	0.886	0.721	-	18.6	20	68	0
Pyridine	1.385	1.261	-	9	20	71	0
2-Fluorophenol	1.328	1.299	-	2.2	20	76	0
Aniline	2.146	2.016	-	6.1	20	75	0
2-Chlorophenol	1.469	1.441	-	1.9	20	75	0
Phenol-d6	1.669	1.551	-	7.1	20	73	0
Phenol	1.963	1.599	-	18.5	20	65	0
Bis(2-chloroethyl)ether	1.398	1.239	-	11.4	20	72	0
1,3-Dichlorobenzene	1.546	1.485	-	3.9	20	74	0
1,4-Dichlorobenzene	1.595	1.515	-	5	20	74	0
1,2-Dichlorobenzene	1.517	1.439	-	5.1	20	74	0
Benzyl alcohol	1.163	1	-	14	20	67	0
Bis(2-chloroisopropyl)ethe	2.866	2.028	-	29.2*	20	62	0
2-Methylphenol	1.31	1.27	-	3.1	20	75	0
Hexachloroethane	0.61	0.57	-	6.6	20	74	0
n-Nitrosodi-n-propylamine	1.038	0.841	-	19	20	63	0
3-Methylphenol/4-Methylphe	1.366	1.334	-	2.3	20	75	0
Nitrobenzene-d5	1.544	1.313	-	15	20	66	0
Nitrobenzene	1.561	1.296	-	17	20	65	0
Isophorone	2.651	2.405	-	9.3	20	70	0
2-Nitrophenol	0.757	0.765	-	-1.1	20	73	0
2,4-Dimethylphenol	1.321	1.299	-	1.7	20	75	0
Bis(2-chloroethoxy)methane	1.699	1.562	-	8.1	20	72	0
2,4-Dichlorophenol	1.083	1.098	-	-1.4	20	75	0
1,2,4-Trichlorobenzene	1.189	1.127	-	5.2	20	72	0
IS1_Naphthalene-d8	1	1	-	0	20	73	0
Naphthalene	0.983	0.976	-	0.7	20	74	0
Benzoic Acid	0.249	0.255	-	-2.4	20	74	0
4-Chloroaniline	0.124	0.103	-	16.9	20	63	0
Hexachlorobutadiene	0.125	0.126	-	-0.8	20	73	0
p-Chloro-m-cresol	0.269	0.259	-	3.7	20	69	0
2-Methylnaphthalene	0.649	0.628	-	3.2	20	71	0
1-Methylnaphthalene	0.206	0.18	-	12.6	20	64	0
Hexachlorocyclopentadiene	0.153	0.169	-	-10.5	20	77	0
2,4,6-Trichlorophenol	0.166	0.169	-	-1.8	20	70	0
2,4,5-Trichlorophenol	0.174	0.182	-	-4.6	20	71	0
2-Fluorobiphenyl	0.623	0.638	-	-2.4	20	73	0
2-Chloronaphthalene	0.562	0.557	-	0.9	20	71	0
2-Nitroaniline	0.201	0.211	-	-5	20	72	0
1,4-Dinitrobenzene	0.092	0.091	-	1.1	20	70	0
1,3-Dinitrobenzene	0.1	0.101	-	-1	20	69	0
Dimethyl phthalate	0.636	0.626	-	1.6	20	69	0
Acenaphthylene	0.926	0.929	-	-0.3	20	71	0
2,6-Dinitrotoluene	0.14	0.146	-	-4.3	20	69	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: CHA Companies	Lab Number	: L1849060		
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000		
Instrument ID	: SV103	Calibration Date	: 12/09/18 16:59		
Lab File ID	: ABN1209	Init. Calib. Date(s)	: 12/05/18	12/06/18	
Sample No	: WG1187317-3	Init. Calib. Times	: 00:09	00:14	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dinitrobenzene	0.066	0.066	-	0	20	71	0
IS1_Acenaphthene-d10	1	1	-	0	20	78	0
3-Nitroaniline	0.384	0.373	-	2.9	20	71	0
Acenaphthene	1.205	1.054	-	12.5	20	70	0
2,4-Dinitrophenol	0.214	0.187	-	12.6	20	66	0
Dibenzofuran	1.756	1.578	-	10.1	20	70	0
2,4-Dinitrotoluene	0.409	0.387	-	5.4	20	68	0
4-Nitrophenol	0.334	0.253	-	24.3*	20	59	0
2,3,5,6-Tetrachlorophenol	0.303	0.284	-	6.3	20	71	0
2,3,4,6-Tetrachlorophenol	0.307	0.28	-	8.8	20	70	0
Diethyl phthalate	1.499	1.31	-	12.6	20	68	0
Fluorene	1.412	1.257	-	11	20	69	0
4-Chlorophenyl phenyl ethe	0.61	0.544	-	10.8	20	71	0
4-Nitroaniline	0.379	0.375	-	1.1	20	71	0
4,6-Dinitro-o-cresol	0.245	0.209	-	14.7	20	65	0
NDPA/DPA	1.192	1.07	-	10.2	20	69	0
Azobenzene	1.598	1.26	-	21.2*	20	63	0
2,4,6-Tribromophenol	0.166	0.164	-	1.2	20	73	0
4-Bromophenyl phenyl ether	0.328	0.289	-	11.9	20	69	0
Hexachlorobenzene	0.355	0.331	-	6.8	20	72	0
Pentachlorophenol	0.225	0.212	-	5.8	20	70	0
IS1_Phenanthrene-d10	1	1	-	0	20	69	0
Phenanthrene	1.103	1.044	-	5.3	20	67	0
Anthracene	1.097	1.095	-	0.2	20	69	0
Carbazole	1.017	1.035	-	-1.8	20	70	0
Di-n-butylphthalate	1.302	1.336	-	-2.6	20	68	0
Fluoranthene	1.08	1.065	-	1.4	20	69	0
Benzidine	0.741	0.817	-	-10.3	20	78	0
Pyrene	1.12	1.093	-	2.4	20	68	0
4-Terphenyl-d14	0.779	0.757	-	2.8	20	68	0
Butyl benzyl phthalate	0.577	0.596	-	-3.3	20	71	0
IS1_Chrysene-d12	1	1	-	0	20	69	0
Benzo(a)anthracene	1.177	1.104	-	6.2	20	65	0
3,3'-Dichlorobenzidine	0.428	0.47	-	-9.8	20	73	0
Chrysene	1.112	1.088	-	2.2	20	68	0
Bis(2-ethylhexyl)phthalate	0.93	1.016	-	-9.2	20	72	0
Di-n-octylphthalate	1.608	1.812	-	-12.7	20	75	0
Benzo(b)fluoranthene	1.078	1.118	-	-3.7	20	69	0
Benzo(k)fluoranthene	1.082	1.108	-	-2.4	20	70	0
Benzo(a)pyrene	1.045	1.101	-	-5.4	20	70	0
IS1_Perylene-d12	1	1	-	0	20	70	0
Indeno(1,2,3-cd)pyrene	1.003	0.943	-	6	20	64	0
Dibenzo(a,h)anthracene	1.025	0.955	-	6.8	20	64	0
Benzo(ghi)perylene	1.063	0.971	-	8.7	20	63	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: CHA Companies		**Lab Number**	: L1849060	
Project Name	: 700 SMITH BLVD		**Project Number**	: 29852.1202.44000	
Instrument ID	: SV103		**Calibration Date**	: 12/09/18 17:25	
Lab File ID	: AP91209		**Init. Calib. Date(s)**	: 12/05/18	12/06/18
Sample No	: WG1187317-4		**Init. Calib. Times**	: 00:09	00:14
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS2_1,4-Dichlorobenzene-d4	1	1	-	0	20	93	0
Benzaldehyde	1.166	1.181	-	-1.3	20	94	0
Acetophenone	1.889	1.957	-	-3.6	20	93	0
m-Toluidine	2.006	2.055	-	-2.4	20	91	0
2-Chloroaniline	1.798	1.865	-	-3.7	20	93	0
IS2_Naphthalene-d8	1	1	-	0	20	90	0
a-Terpineol	0.305	0.273	-	10.5	20	79	0
3-Chloroaniline	0.141	0.12	-	14.9	20	78	0
2,6-Dichlorophenol	0.232	0.262	-	-12.9	20	98	0
1-chloro-2-nitrobenzene	0.126	0.134	-	-6.3	20	92	0
Caprolactam	0.17	0.161	-	5.3	20	84	0
1,2,4,5-Tetrachlorobenzene	0.217	0.24	-	-10.6	20	97	0
Biphenyl	0.702	0.771	-	-9.8	20	98	0
IS2_Acenaphthene-d10	1	1	-	0	20	103	0
Dichloran	0.136	0.162	-	-19.1	20	118	0
Pentachloronitrobenzene	0.123	0.119	-	3.3	20	98	0
IS2_Phenanthrene-d10	1	1	-	0	20	98	0
Diphenamid	0.476	0.529	-	-11.1	20	106	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: CHA Companies		**Lab Number**	: L1849060	
Project Name	: 700 SMITH BLVD		**Project Number**	: 29852.1202.44000	
Instrument ID	: SV103		**Calibration Date**	: 12/09/18 17:51	
Lab File ID	: ADP1209		**Init. Calib. Date(s)**	: 12/05/18	12/06/18
Sample No	: WG1187317-5		**Init. Calib. Times**	: 00:09	00:14
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS3_1,4-Dichlorobenzene-d4	1	1	-	0	20	119	0
n-Decane	0.976	1.42	-	-45.5*	20	171	0
IS3_Acenaphthene-d10	1	1	-	0	20	125	0
Atrazine	0.31	0.319	-	-2.9	20	124	0
IS3_Phenanthrene-d10	1	1	-	0	20	112	0
n-Octadecane	0.386	0.558	-	-44.6*	20	161	0
Parathion	50	59.312	-	-18.6	20	139	0
3,3'-Dimethylbenzidine	0.671	0.792	-	-18	20	127	0

* Value outside of QC limits.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV109\181205\
Data File : AP91205.D
Acq On : 5 Dec 2018 1:33 pm
Operator : sv109:jg
Sample : wg1185944-4,32,,AP9 ICV Lot # 7798
Misc : wg1185944,,ical15112
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Dec 05 13:58:22 2018
Quant Method : I:\8270\SV109\181205\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 13:53:17 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
27	I	IS2_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	67	0.00
28	T	Benzaldehyde	1.112	1.117	-0.4	64	0.00
29	T	Acetophenone	1.902	1.904	-0.1	64	0.00
30	T	m-Toluidine	1.869	1.878	-0.5	65	0.00
31	T	2-Chloroaniline	1.758	1.766	-0.5	64	0.00
54	I	IS2_Naphthalene-d8	1.000	1.000	0.0	68	0.00
55	T	a-Terpineol	0.300	0.302	-0.7	67	0.00
56	T	3-Chloroaniline	0.145	0.135	6.9	62	0.00
57	T	2,6-Dichlorophenol	0.268	0.265	1.1	64	0.00
58	T	1-chloro-2-nitrobenzene	0.134	0.142	-6.0	69	0.00
59	T	Caprolactam	0.162	0.187	-15.4	74	0.00
60	T	1,2,4,5-Tetrachlorobenzene	0.317	0.294	7.3	63	0.00
61	T	Biphenyl	0.795	0.789	0.8	67	0.00
82	I	IS2_Acenaphthene-d10	1.000	1.000	0.0	76	0.00
83	T	Dichloran	0.178	0.197	-10.7	82	0.00
84	T	Pentachloronitrobenzene	0.192	0.181	5.7	72	0.00
97	I	IS2_Phenanthrene-d10	1.000	1.000	0.0	75	0.00
98	T	Diphenamid	0.500	0.563	-12.6	83	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181205\
Data File : AP91205.D
Acq On : 5 Dec 2018 1:33 pm
Operator : sv109:jg
Sample : wg1185944-4,32,,AP9 ICV Lot # 7798
Misc : wg1185944,,ical15112
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Dec 05 13:58:22 2018
Quant Method : I:\8270\SV109\181205\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 13:53:17 2018
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.749	152	124227	40.000	ug/ml	0.00
54) IS2_Naphthalene-d8	5.989	136	535508	40.000	ug/ml	0.00
82) IS2_Acenaphthene-d10	7.698	164	298790	40.000	ug/ml	0.00
97) IS2_Phenanthrene-d10	9.137	188	603067	40.000	ug/ml	0.00
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.314	105	173511	50.234	ug/ml	96
29) Acetophenone	5.150	105	295687	50.066	ug/ml	94
30) m-Toluidine	5.231	106	291594	50.227	ug/ml	98
31) 2-Chloroaniline	5.594	127	274232	50.235	ug/ml	99
55) a-Terpineol	6.048	59	201903	50.232	ug/ml	97
56) 3-Chloroaniline	6.060	65	90120	46.537	ug/ml	99
57) 2,6-Dichlorophenol	6.088	162	177377	49.371	ug/ml	98
58) 1-chloro-2-nitrobenzene	6.343	111	94723	52.725	ug/ml	98
59) Caprolactam	6.393	55	125260	57.598	ug/ml	98
60) 1,2,4,5-Tetrachloroben...	6.862	216	197114	46.402	ug/ml	100
61) Biphenyl	7.151	154	528212	49.612	ug/ml	99
83) Dichloran	8.830	206	73647	55.518	ug/ml	96
84) Pentachloronitrobenzene	8.982	237	67483	46.941	ug/ml	97
98) Diphenamid	10.039	167	424462	56.289	ug/ml	93

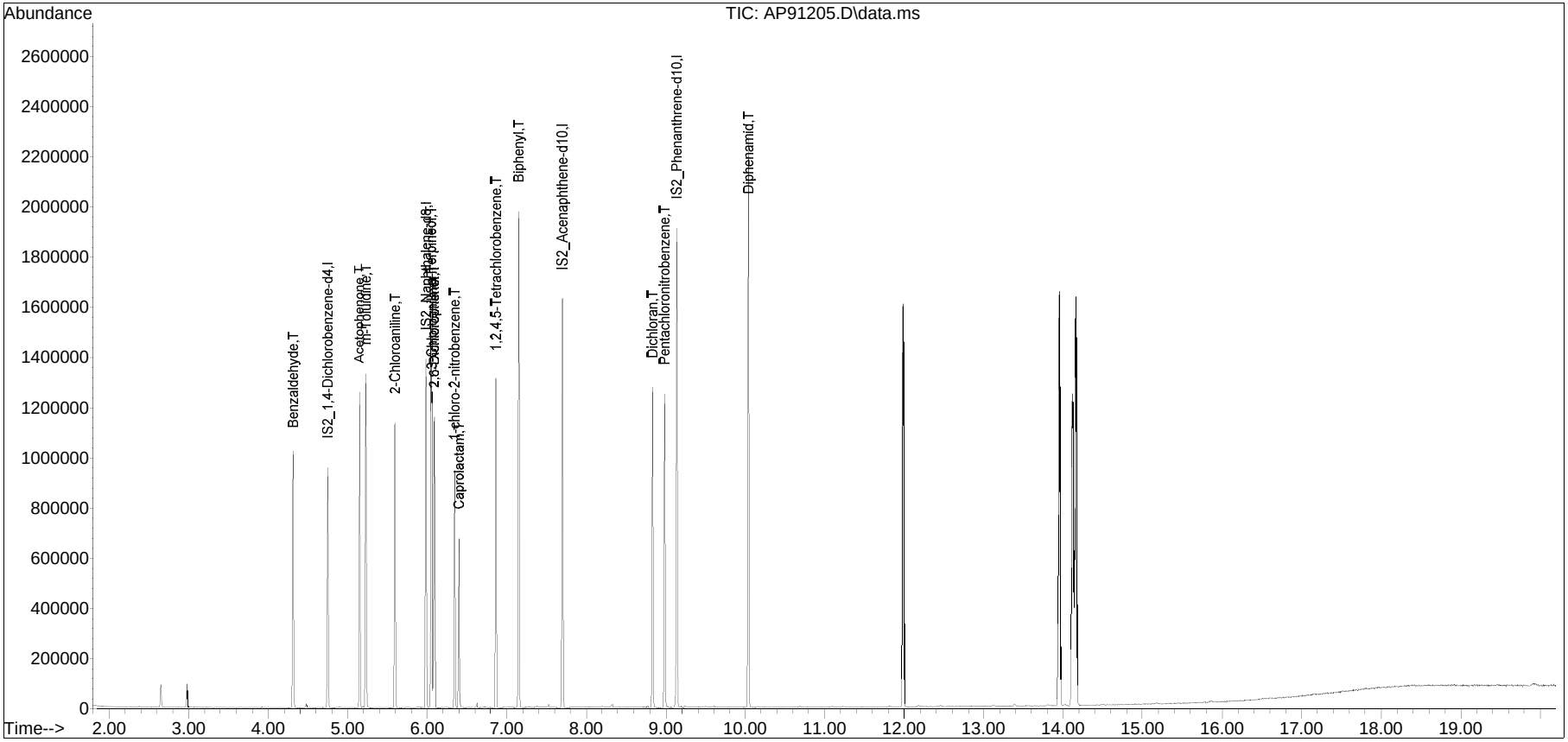
(#) = qualifier out of range (m) = manual integration (+) = signals summed

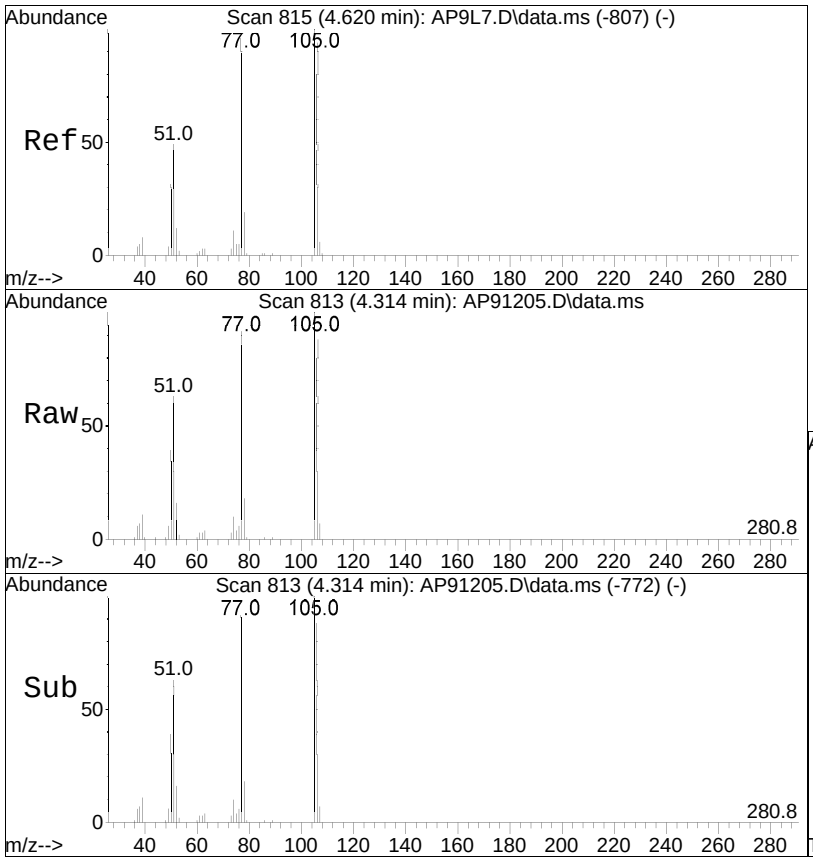
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181205\
Data File : AP91205.D
Acq On : 5 Dec 2018 1:33 pm
Operator : sv109:jg
Sample : wg1185944-4,32,,AP9 ICV Lot # 7798
Misc : wg1185944,,ical15112
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Dec 05 13:58:22 2018
Quant Method : I:\8270\SV109\181205\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 13:53:17 2018
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

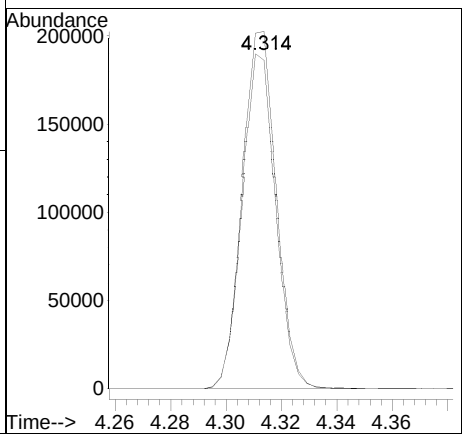


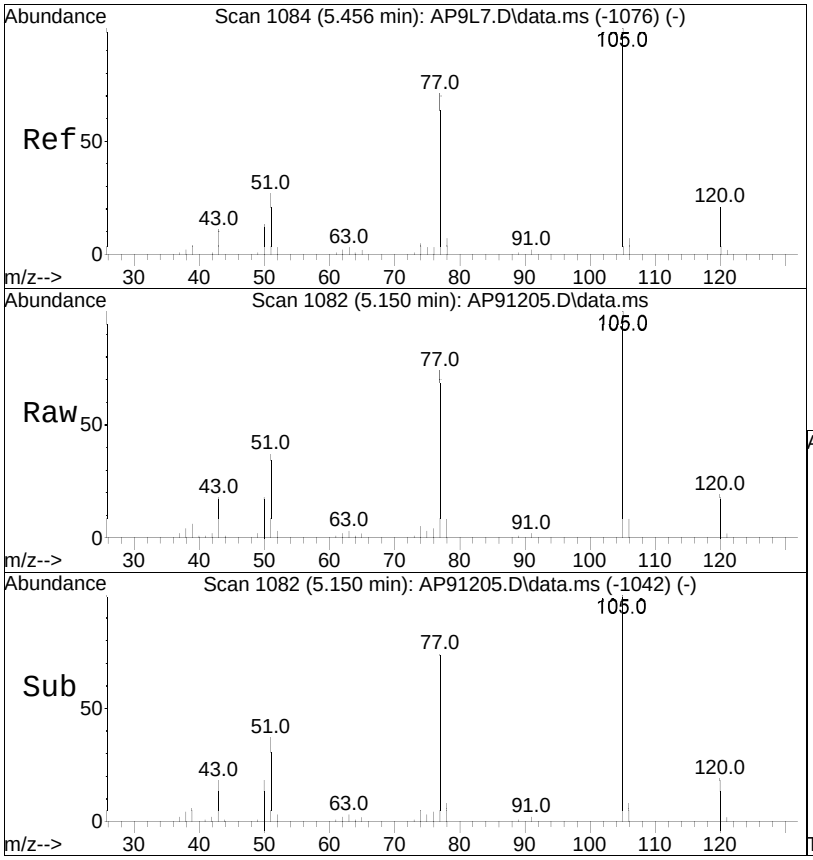


#28
Benzaldehyde
Concen: 50.23 ug/ml
RT: 4.314 min Scan# 813
Delta R.T. 0.003 min
Lab File: AP91205.D
Acq: 5 Dec 2018 1:33 pm

Tgt Ion:105 Resp: 173511

Ion	Ratio	Lower	Upper
105	100		
77	92.1	76.9	115.3

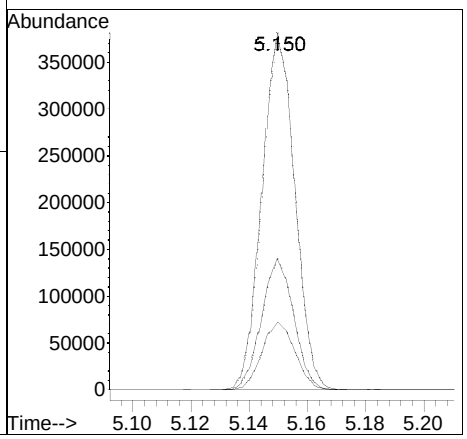


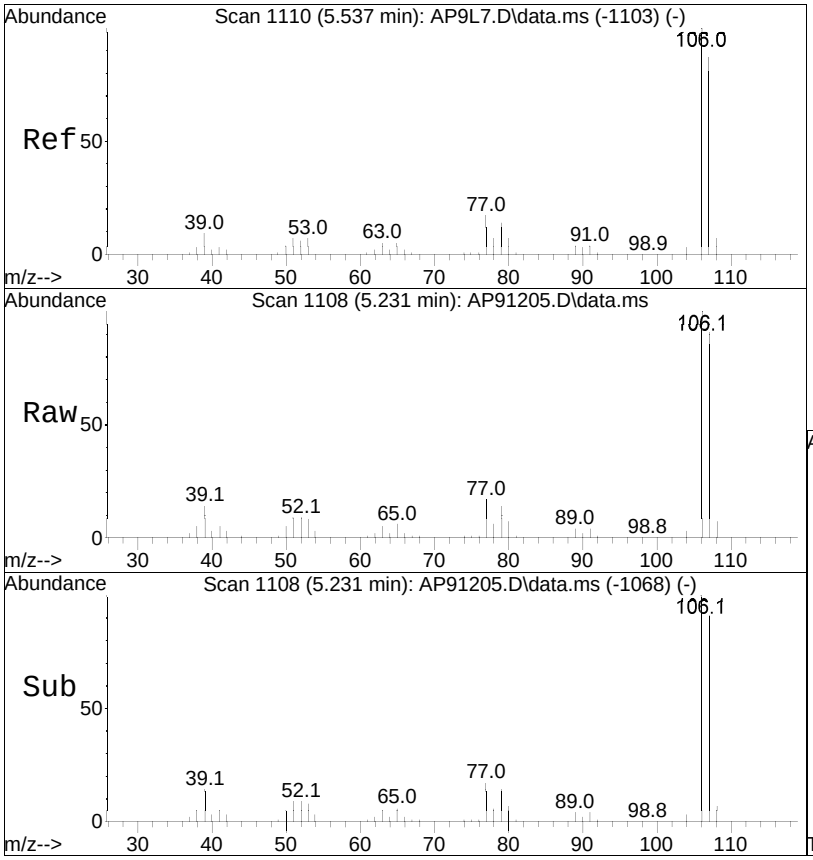


#29
Acetophenone
Concen: 50.07 ug/ml
RT: 5.150 min Scan# 1082
Delta R.T. -0.000 min
Lab File: AP91205.D
Acq: 5 Dec 2018 1:33 pm

Tgt Ion:105 Resp: 295687

Ion	Ratio	Lower	Upper
105	100		
120	19.2	15.9	23.9
51	36.2	25.2	37.8

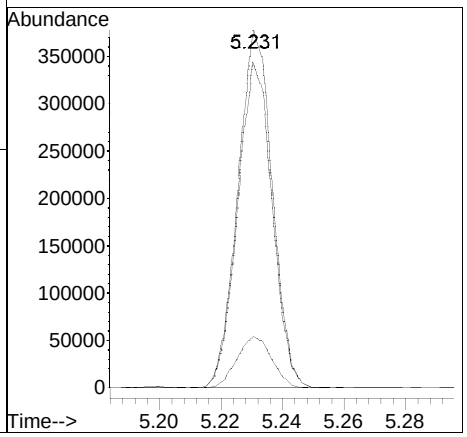


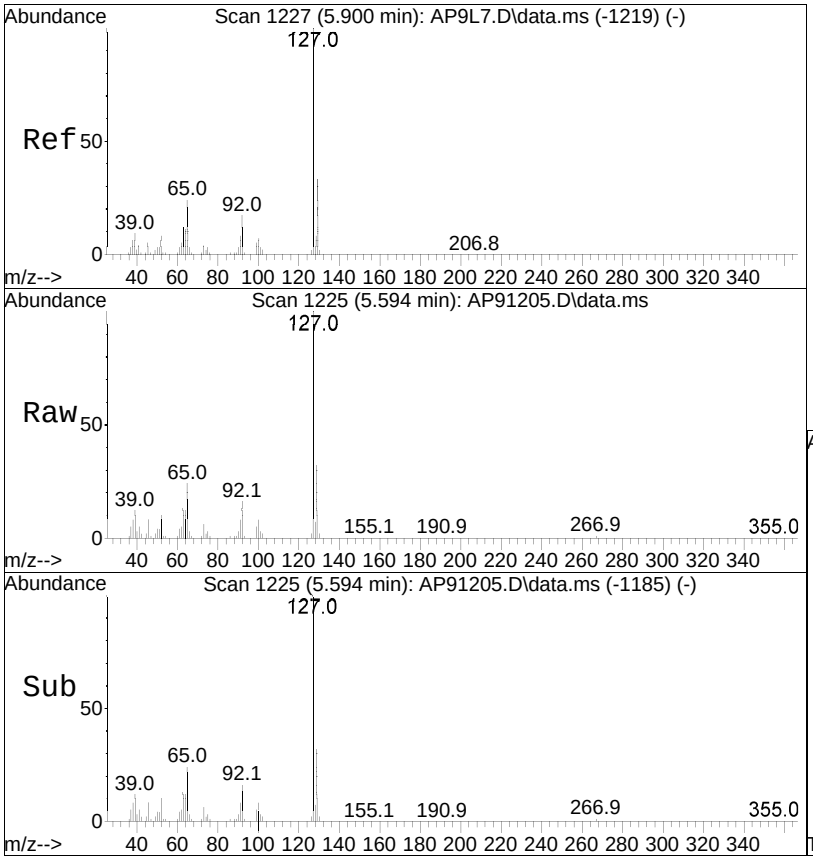


#30
m-Toluidine
Concen: 50.23 ug/ml
RT: 5.231 min Scan# 1108
Delta R.T. -0.000 min
Lab File: AP91205.D
Acq: 5 Dec 2018 1:33 pm

Tgt Ion:106 Resp: 291594

Ion	Ratio	Lower	Upper
106	100		
107	91.3	71.8	107.6
79	14.7	12.0	18.0

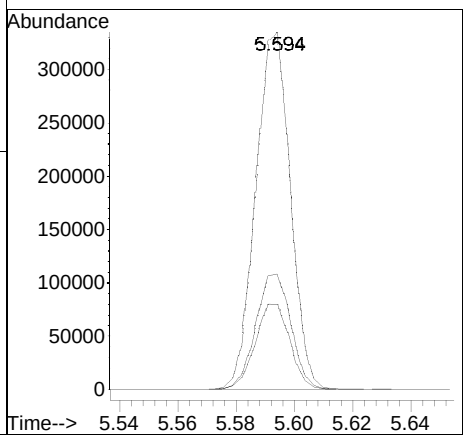


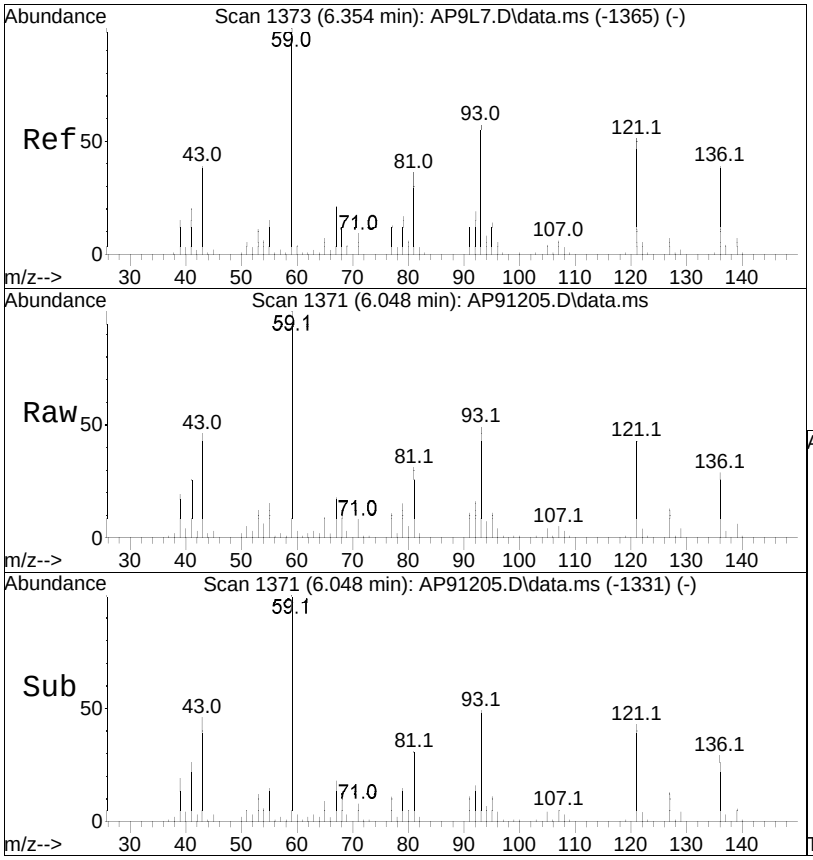


#31
2-Chloroaniline
Concen: 50.24 ug/ml
RT: 5.594 min Scan# 1225
Delta R.T. -0.000 min
Lab File: AP91205.D
Acq: 5 Dec 2018 1:33 pm

Tgt Ion:127 Resp: 274232

Ion	Ratio	Lower	Upper
127	100		
129	33.0	25.4	38.0
65	24.2	19.4	29.2

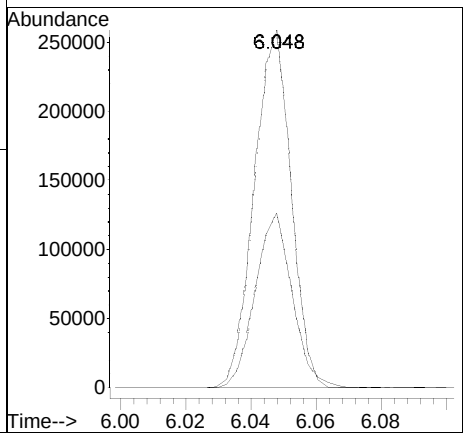


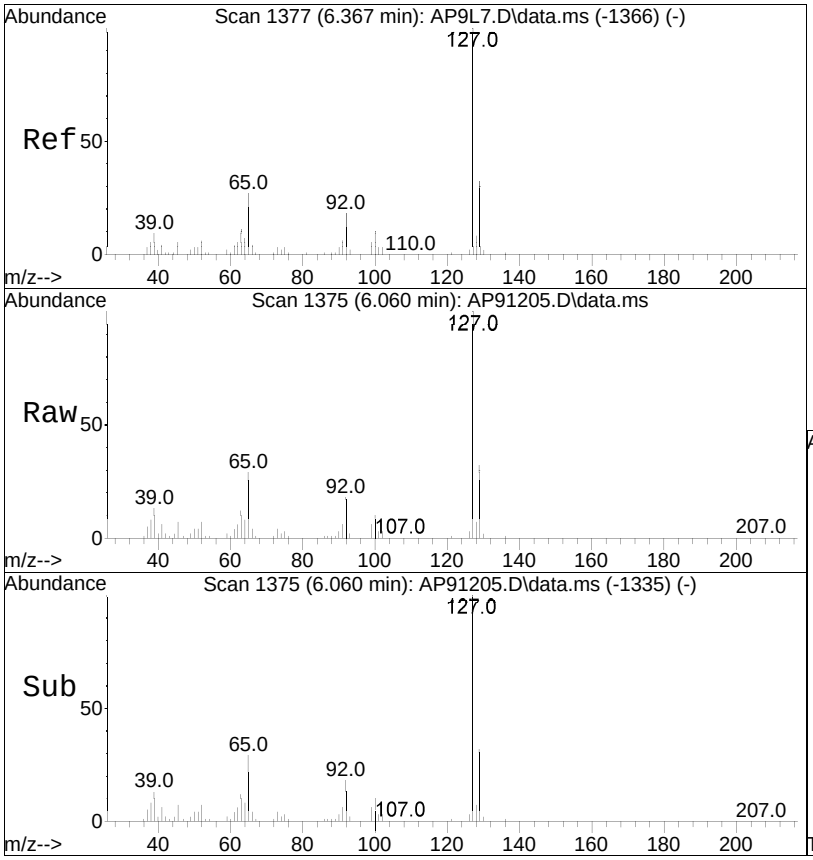


#55
a-Terpineol
Concen: 50.23 ug/ml
RT: 6.048 min Scan# 1371
Delta R.T. -0.000 min
Lab File: AP91205.D
Acq: 5 Dec 2018 1:33 pm

Tgt Ion: 59 Resp: 201903

Ion	Ratio	Lower	Upper
59	100		
93	49.6	38.3	57.5

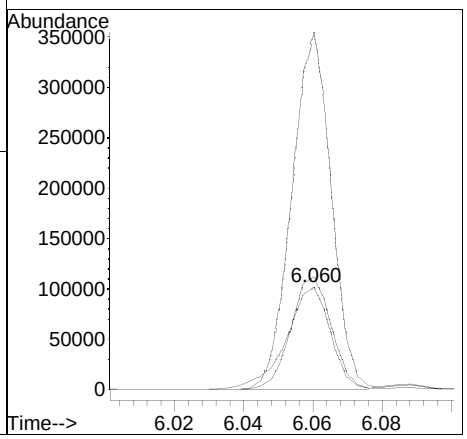


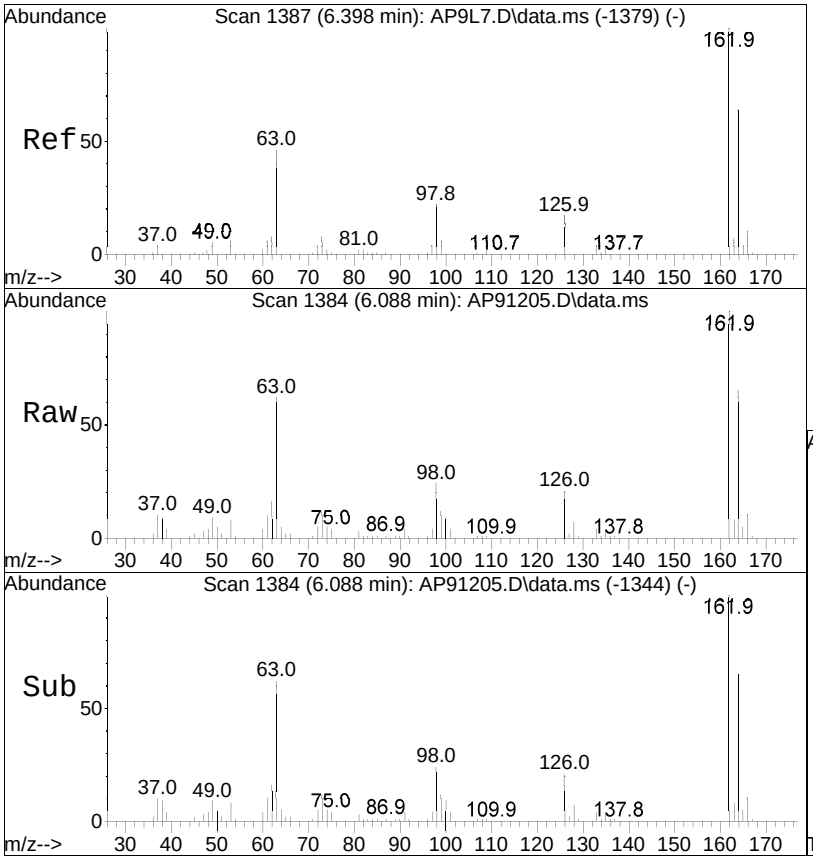


#56
3-Chloroaniline
Concen: 46.54 ug/ml
RT: 6.060 min Scan# 1375
Delta R.T. -0.000 min
Lab File: AP91205.D
Acq: 5 Dec 2018 1:33 pm

Tgt Ion: 65 Resp: 90120

Ion	Ratio	Lower	Upper
65	100		
127	309.6	246.5	369.7
129	100.8	80.3	120.5

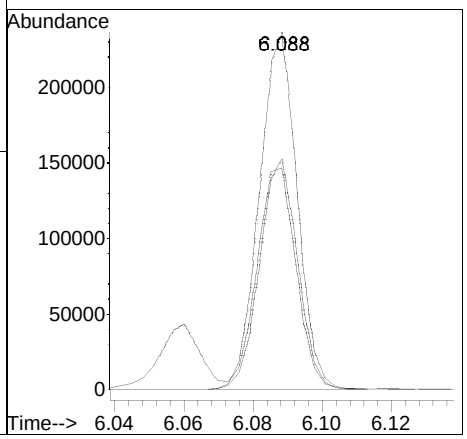


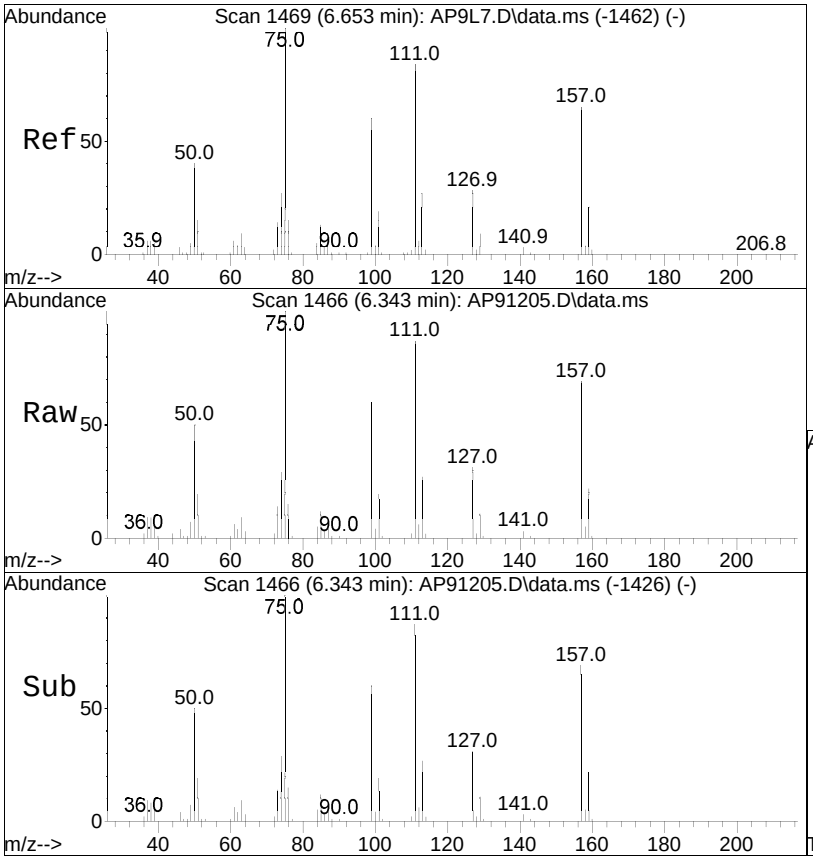


#57
2,6-Dichlorophenol
Concen: 49.37 ug/ml
RT: 6.088 min Scan# 1384
Delta R.T. -0.000 min
Lab File: AP91205.D
Acq: 5 Dec 2018 1:33 pm

Tgt Ion:162 Resp: 177377

Ion	Ratio	Lower	Upper
162	100		
164	65.1	51.7	77.5
63	64.4	49.5	74.3

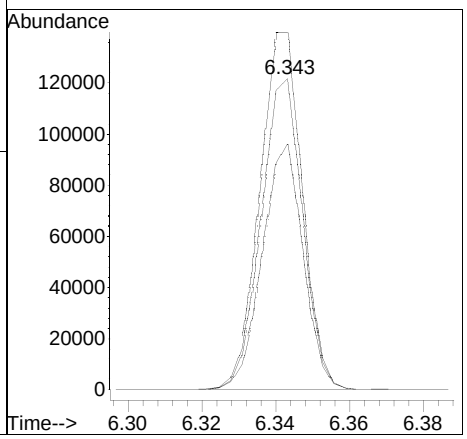


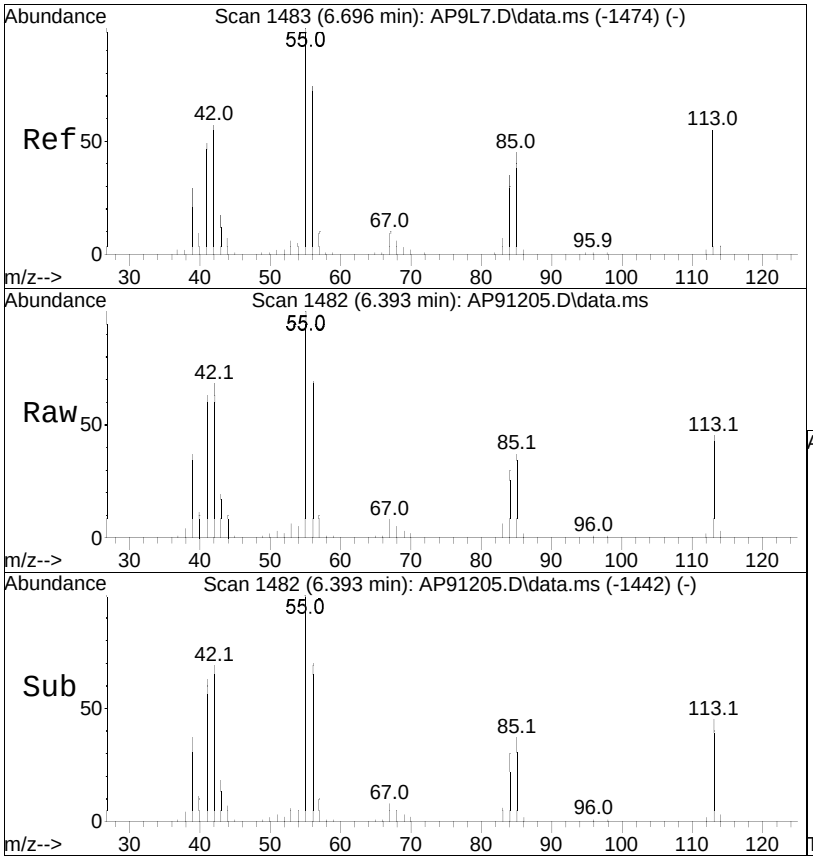


#58
1-chloro-2-nitrobenzene
Concen: 52.73 ug/ml
RT: 6.343 min Scan# 1466
Delta R.T. -0.000 min
Lab File: AP91205.D
Acq: 5 Dec 2018 1:33 pm

Tgt Ion:111 Resp: 94723

Ion	Ratio	Lower	Upper
111	100		
157	77.8	61.1	91.7
75	117.6	96.3	144.5

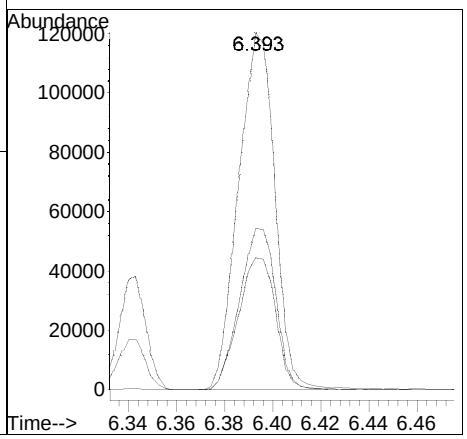


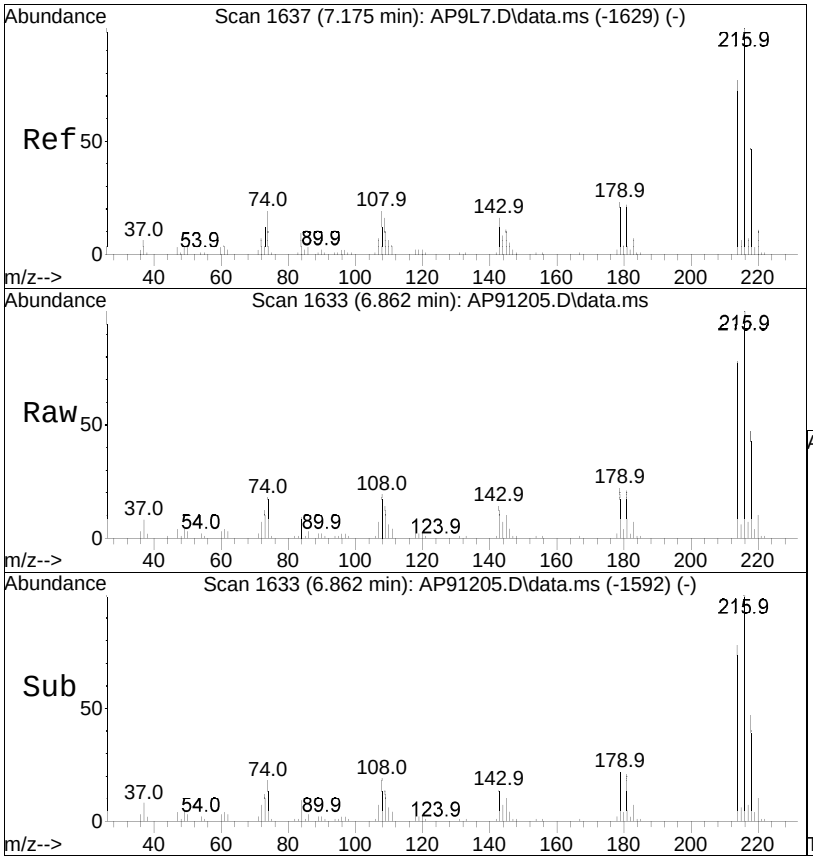


#59
Caprolactam
Concen: 57.60 ug/ml
RT: 6.393 min Scan# 1482
Delta R.T. -0.000 min
Lab File: AP91205.D
Acq: 5 Dec 2018 1:33 pm

Tgt Ion: 55 Resp: 125260

Ion	Ratio	Lower	Upper
55	100		
85	38.6	30.9	46.3
113	45.5	34.7	52.1

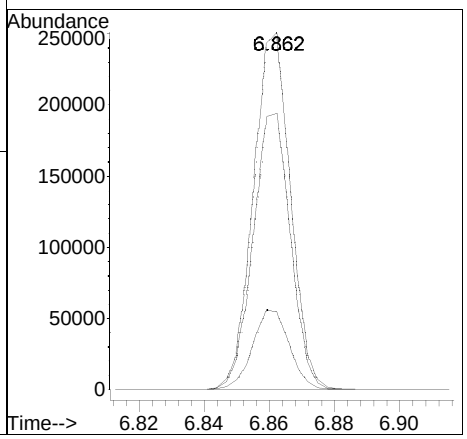


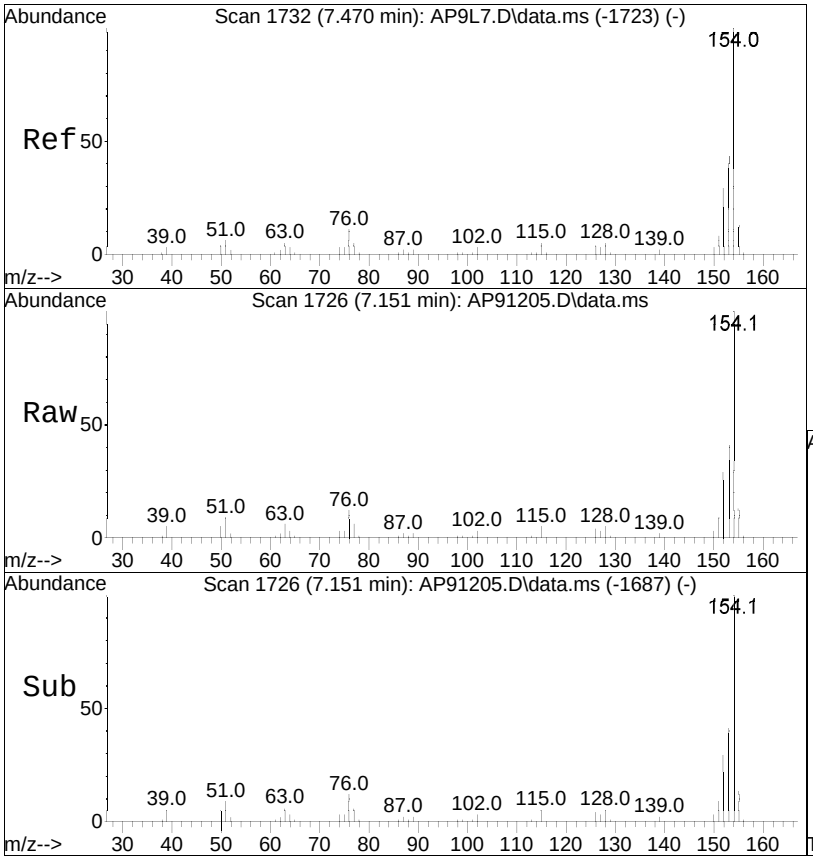


#60
1,2,4,5-Tetrachlorobenzene
Concen: 46.40 ug/ml
RT: 6.862 min Scan# 1633
Delta R.T. 0.003 min
Lab File: AP91205.D
Acq: 5 Dec 2018 1:33 pm

Tgt Ion:216 Resp: 197114

Ion	Ratio	Lower	Upper
216	100		
214	77.8	62.2	93.4
179	22.2	17.4	26.2

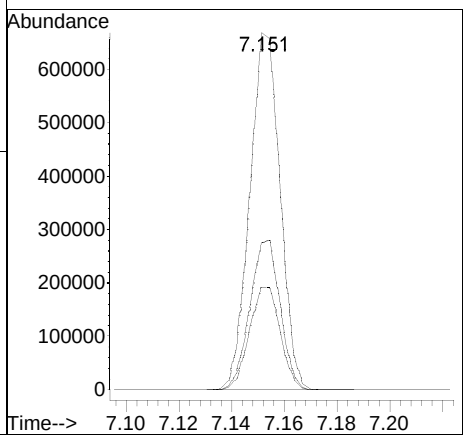


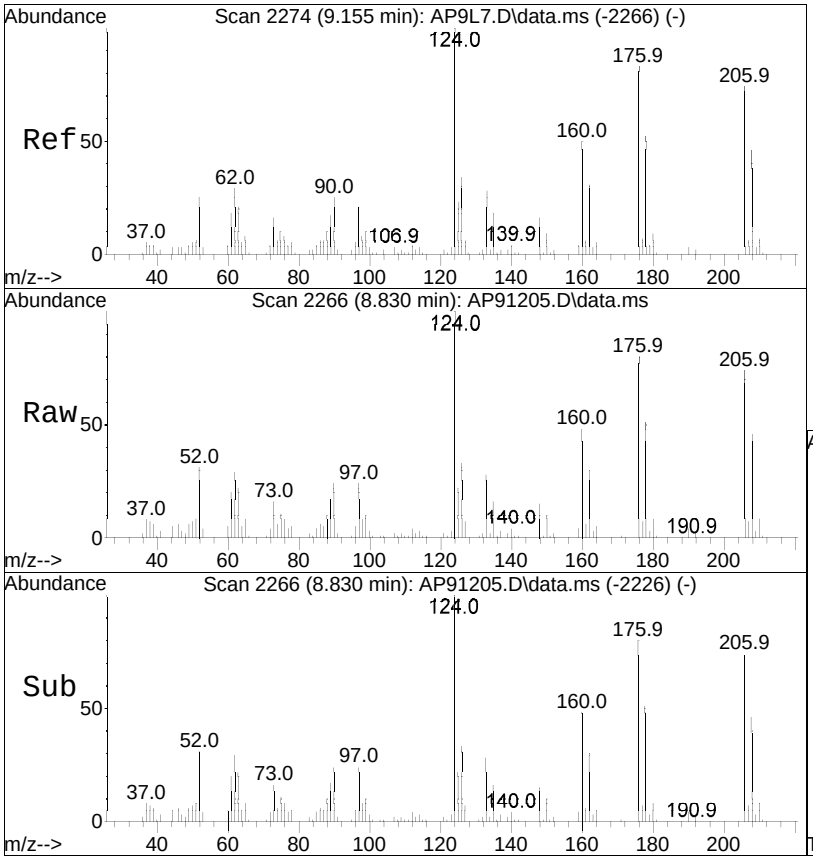


#61
Biphenyl
Concen: 49.61 ug/ml
RT: 7.151 min Scan# 1726
Delta R.T. -0.003 min
Lab File: AP91205.D
Acq: 5 Dec 2018 1:33 pm

Tgt Ion:154 Resp: 528212

Ion	Ratio	Lower	Upper
154	100		
153	41.9	33.4	50.0
152	29.5	23.0	34.6

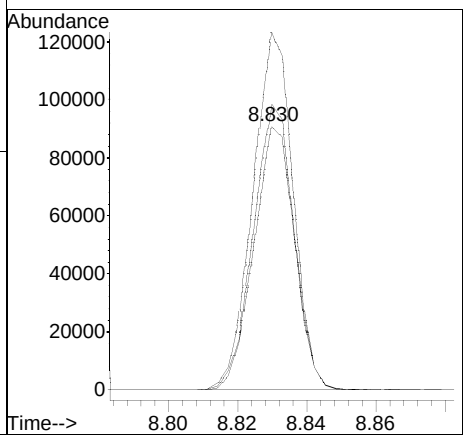


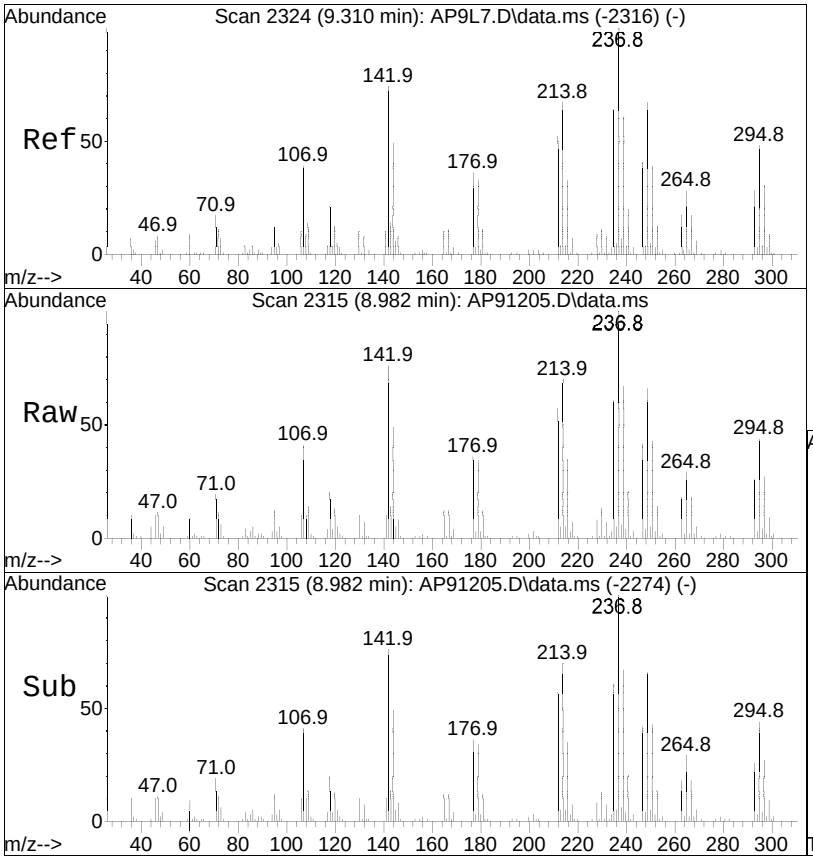


#83
Dichloran
Concen: 55.52 ug/ml
RT: 8.830 min Scan# 2266
Delta R.T. -0.000 min
Lab File: AP91205.D
Acq: 5 Dec 2018 1:33 pm

Tgt Ion:206 Resp: 73647

Ion	Ratio	Lower	Upper
206	100		
176	108.7	94.8	142.2
124	134.5	107.9	161.9

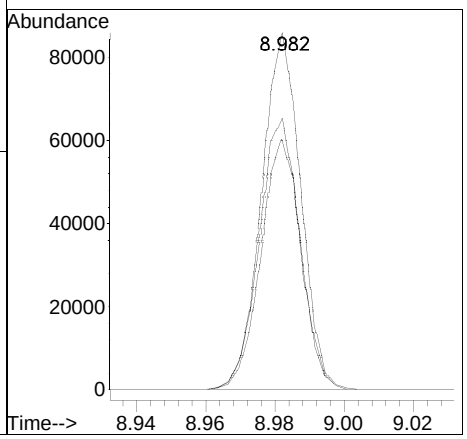


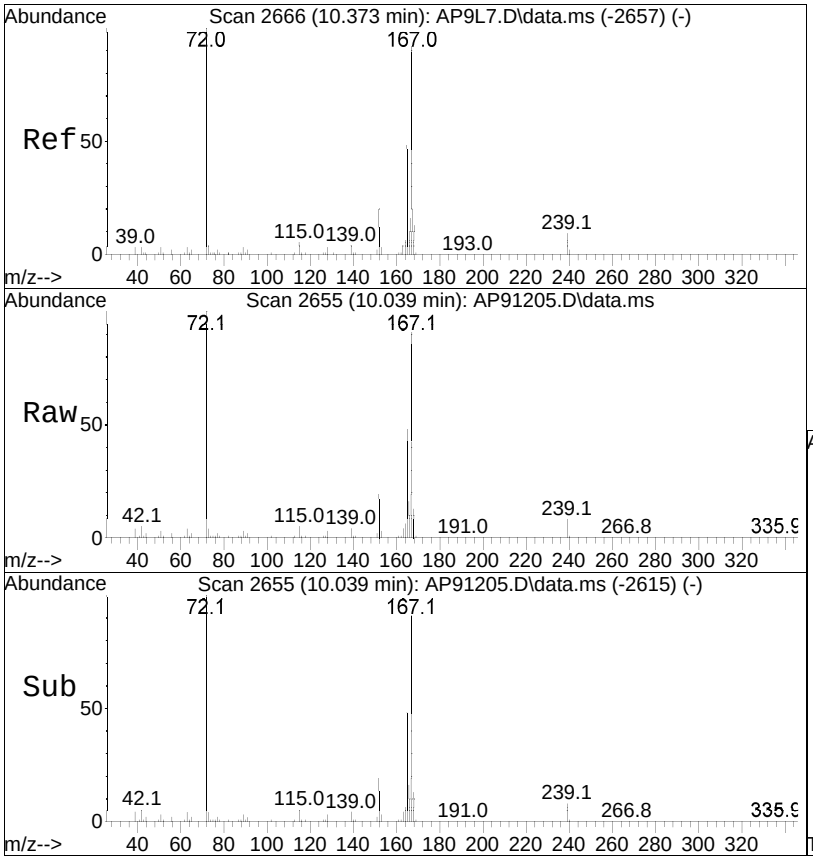


#84
Pentachloronitrobenzene
Concen: 46.94 ug/ml
RT: 8.982 min Scan# 2315
Delta R.T. 0.003 min
Lab File: AP91205.D
Acq: 5 Dec 2018 1:33 pm

Tgt Ion:237 Resp: 67483

Ion	Ratio	Lower	Upper
237	100		
142	78.7	59.4	89.2
214	72.0	56.5	84.7

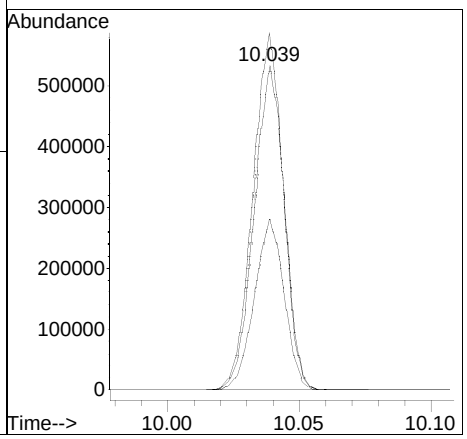




#98
Diphenamid
Concen: 56.29 ug/ml
RT: 10.039 min Scan# 2655
Delta R.T. -0.000 min
Lab File: AP91205.D
Acq: 5 Dec 2018 1:33 pm

Tgt Ion:167 Resp: 424462

Ion	Ratio	Lower	Upper
167	100		
72	109.7	94.5	141.7
165	51.9	37.9	56.9



Manual Integration Report

Data Path	: I:\8270\SV109\181205\	QMethod	: FS1801003nSV109.m
Data File	: AP91205.D	Operator	: sv109:jg
Date Inj'd	: 12/5/2018 1:33 pm	Instrument	: SV109
Sample	: wg1185944-4,32,,AP9 ICV Lo	Quant Date	: 12/5/2018 1:57 pm

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV109\181205\
Data File : ADP1205.D
Acq On : 5 Dec 2018 1:57 pm
Operator : sv109:jg
Sample : wg1185944-5,32,,ADP ICV Lot # 7809
Misc : wg1185944,,ical15112
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Dec 05 20:08:35 2018
Quant Method : I:\8270\SV109\181205\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 20:07:50 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
32	I	IS3_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	72	0.00
33	T	n-Decane	1.586	1.648	-3.9	74	0.00
85	I	IS3_Acenaphthene-d10	1.000	1.000	0.0	83	0.00
86	T	Atrazine	0.348	0.437	-25.6#	94	0.00
99	I	IS3_Phenanthrene-d10	1.000	1.000	0.0	77	0.00
100	T	n-Octadecane	0.498	0.587	-17.9	85	0.00
101	T	Parathion	0.133	0.174	-30.8#	96	0.00
102	T	3,3'-Dimethylbenzidine	0.669	1.002	-49.8#	102	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181205\
Data File : ADP1205.D
Acq On : 5 Dec 2018 1:57 pm
Operator : sv109:jg
Sample : wg1185944-5,32,,ADP ICV Lot # 7809
Misc : wg1185944,,ical15112
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Dec 05 20:08:35 2018
Quant Method : I:\8270\SV109\181205\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 20:07:50 2018
Response via : Initial Calibration

Sub List : ADPical - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.749	152	127662	40.000	ug/ml	0.00
85) IS3_Acenaphthene-d10	7.699	164	298886	40.000	ug/ml	0.00
99) IS3_Phenanthrene-d10	9.135	188	592015	40.000	ug/ml	0.00
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	4.634	57	263033	51.956	ug/ml#	67
86) Atrazine	8.905	200	163427	62.770	ug/ml	99
100) n-Octadecane	9.103	57	434513	58.999	ug/ml#	80
101) Parathion	9.918	109	128857	65.476	ug/ml	95
102) 3,3'-Dimethylbenzidine	11.285	212	741233	74.875	ug/ml	99

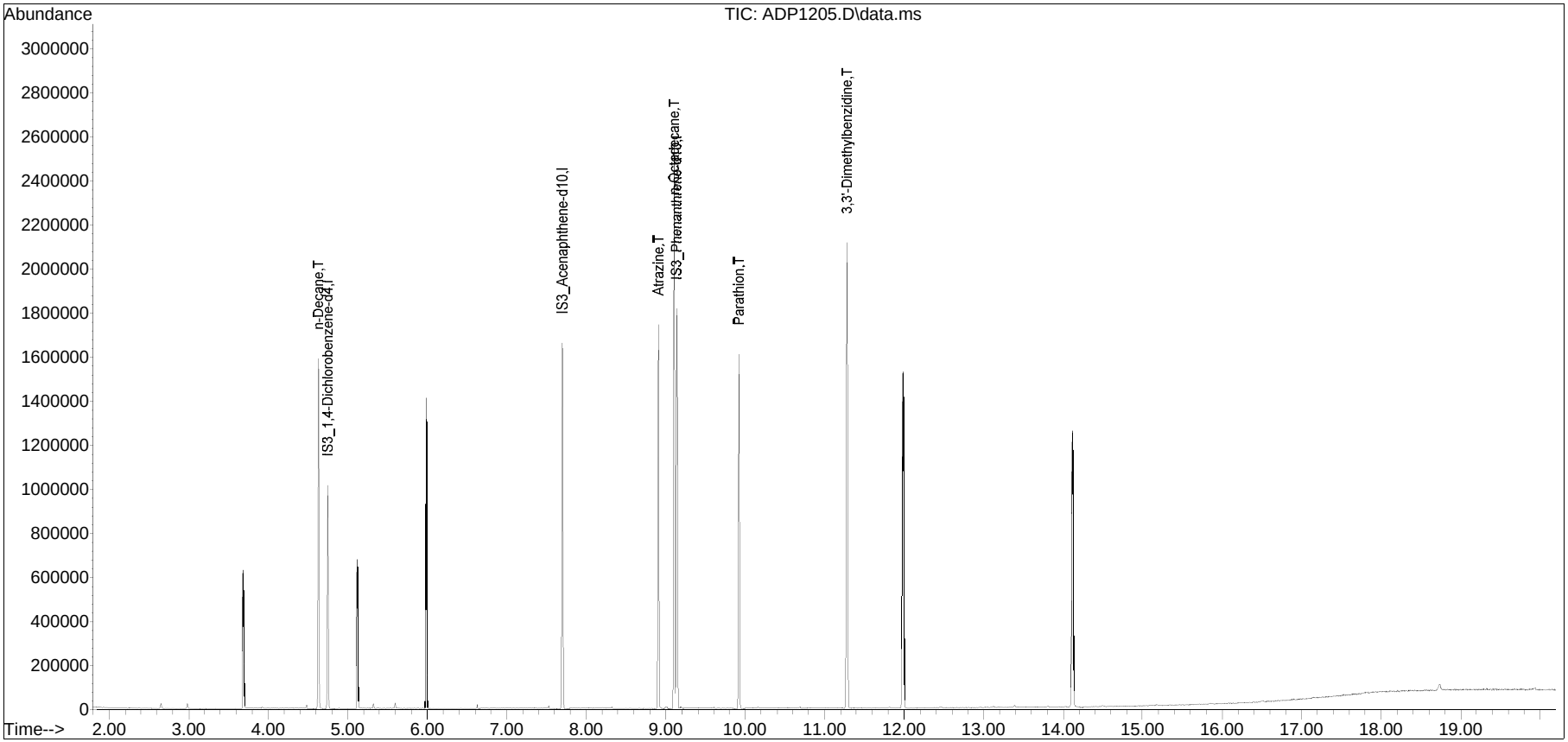
(#) = qualifier out of range (m) = manual integration (+) = signals summed

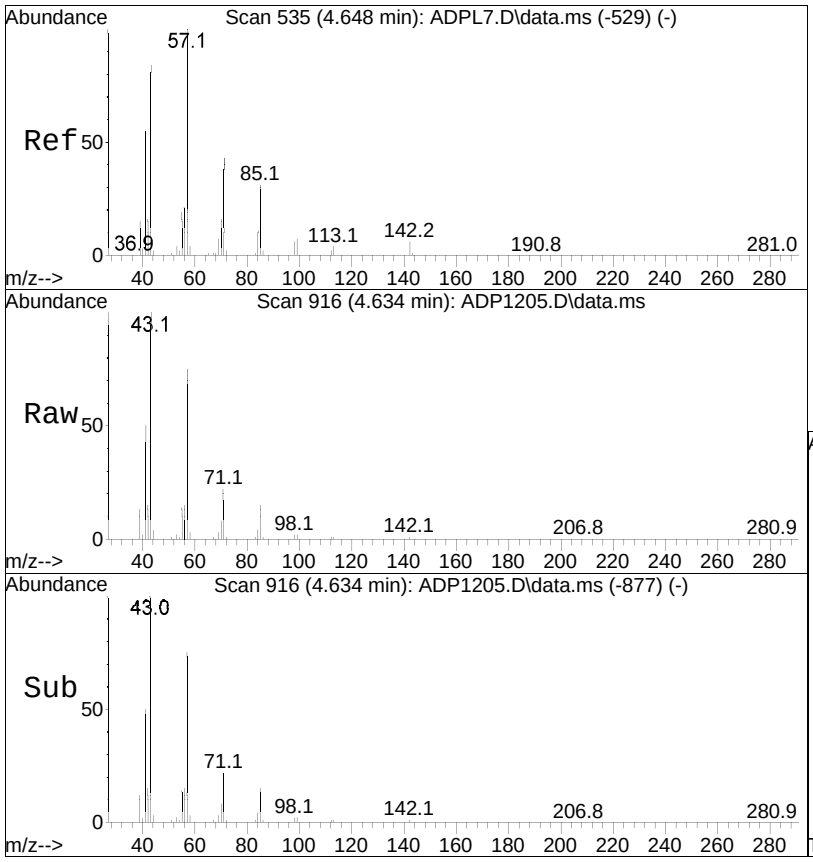
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181205\
Data File : ADP1205.D
Acq On : 5 Dec 2018 1:57 pm
Operator : sv109:jg
Sample : wg1185944-5,32,,ADP ICV Lot # 7809
Misc : wg1185944,,ical15112
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Dec 05 20:08:35 2018
Quant Method : I:\8270\SV109\181205\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 20:07:50 2018
Response via : Initial Calibration

Sub List : ADPical - ADP sublist

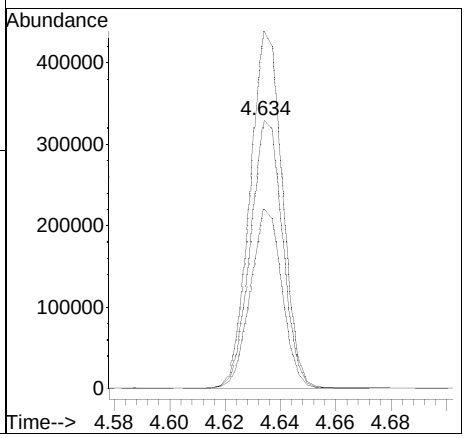


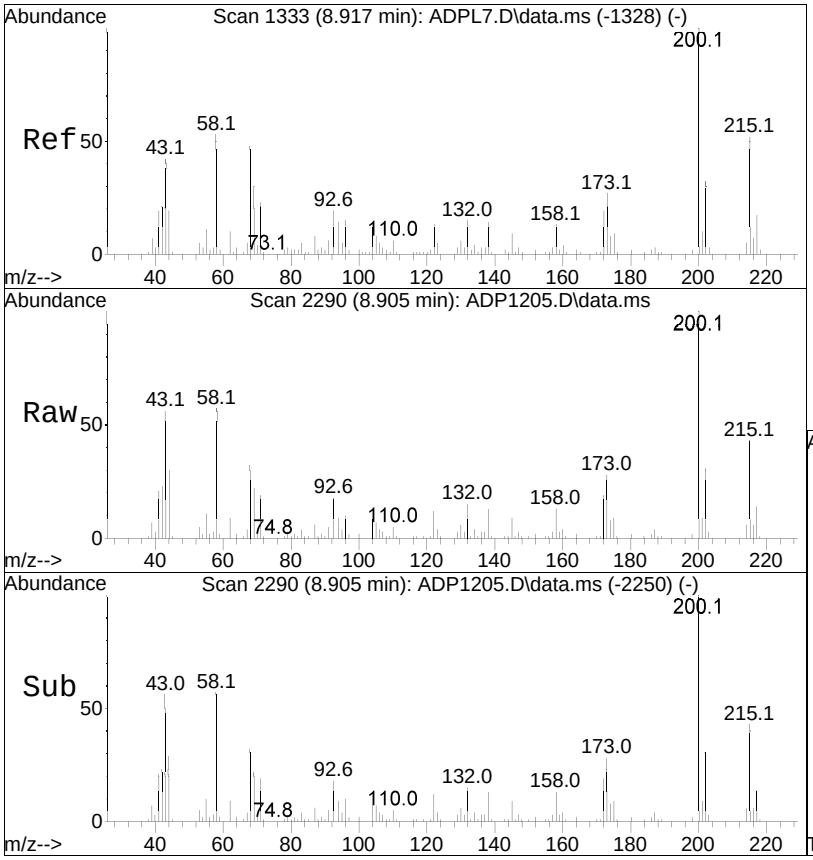


#33
n-Decane
Concen: 51.96 ug/ml
RT: 4.634 min Scan# 916
Delta R.T. -0.003 min
Lab File: ADP1205.D
Acq: 5 Dec 2018 1:57 pm

Tgt Ion: 57 Resp: 263033

Ion	Ratio	Lower	Upper
57	100		
43	134.4	80.2	120.4#
41	65.9	36.8	55.2#

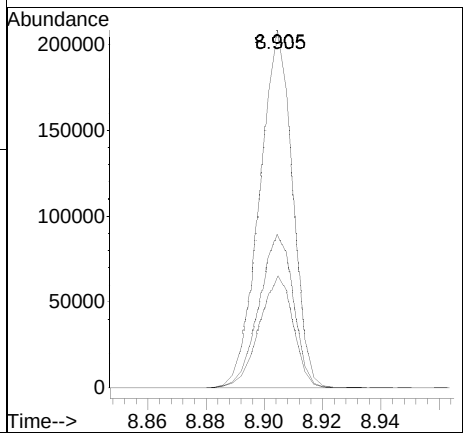


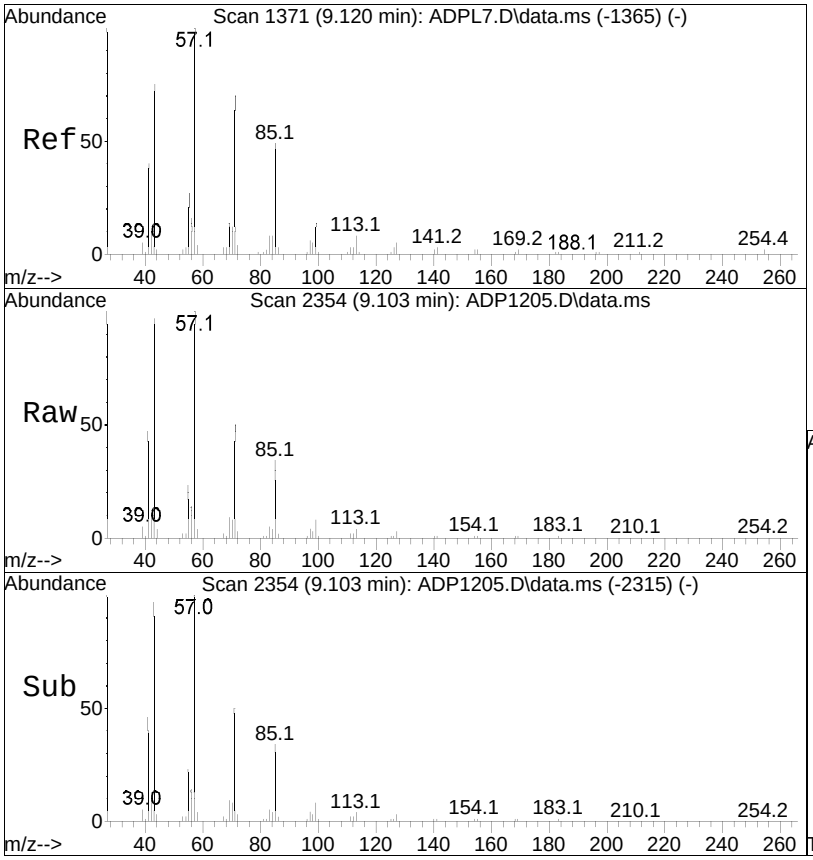


#86
Atrazine
Concen: 62.77 ug/ml
RT: 8.905 min Scan# 2290
Delta R.T. 0.000 min
Lab File: ADP1205.D
Acq: 5 Dec 2018 1:57 pm

Tgt Ion:200 Resp: 163427

Ion	Ratio	Lower	Upper
200	100		
202	32.2	26.1	39.1
215	44.8	36.2	54.2

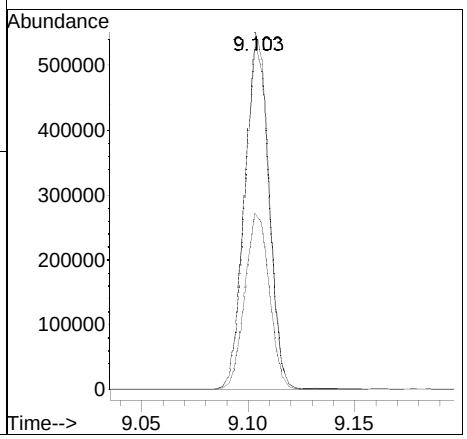


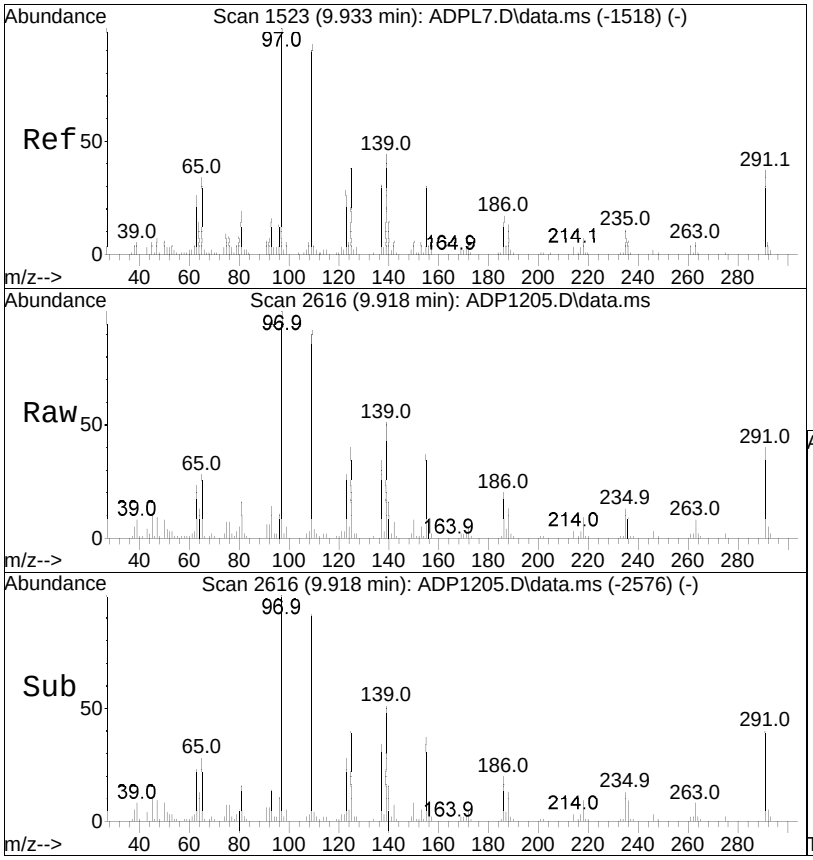


#100
n-Octadecane
Concen: 59.00 ug/ml
RT: 9.103 min Scan# 2354
Delta R.T. -0.003 min
Lab File: ADP1205.D
Acq: 5 Dec 2018 1:57 pm

Tgt Ion: 57 Resp: 434513

Ion	Ratio	Lower	Upper
57	100		
43	96.4	56.6	84.8#
71	49.6	42.1	63.1

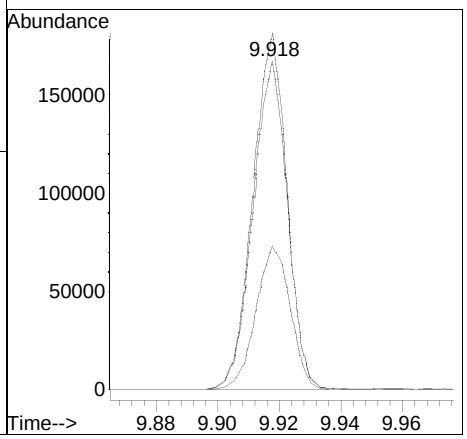


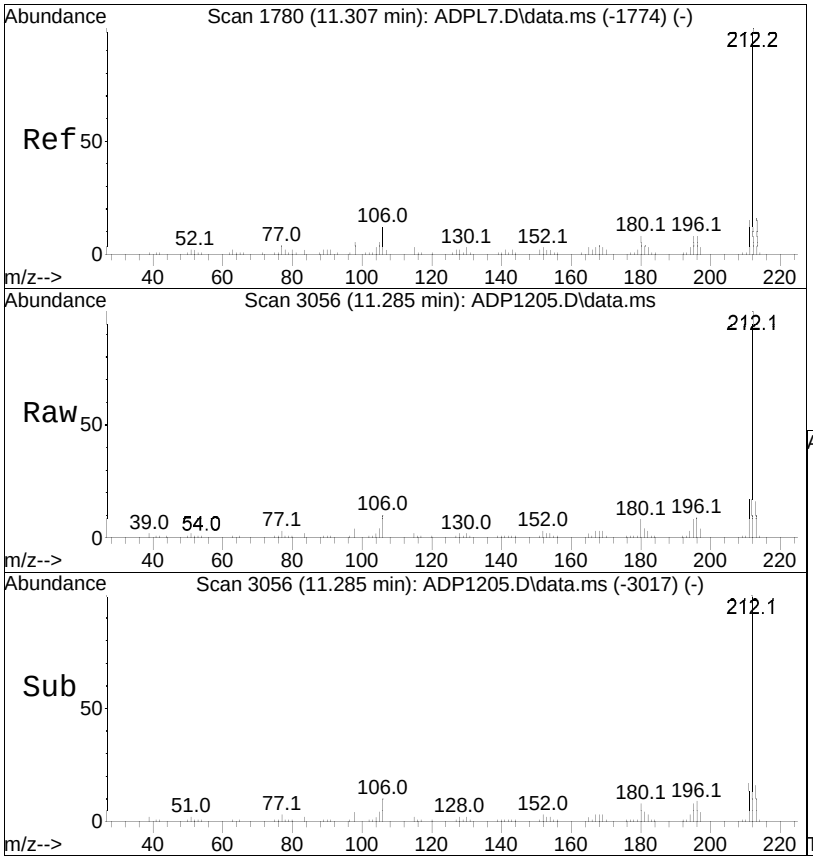


#101
Parathion
Concen: 65.48 ug/ml
RT: 9.918 min Scan# 2616
Delta R.T. 0.000 min
Lab File: ADP1205.D
Acq: 5 Dec 2018 1:57 pm

Tgt Ion:109 Resp: 128857

Ion	Ratio	Lower	Upper
109	100		
97	107.2	82.5	123.7
291	43.9	30.7	46.1

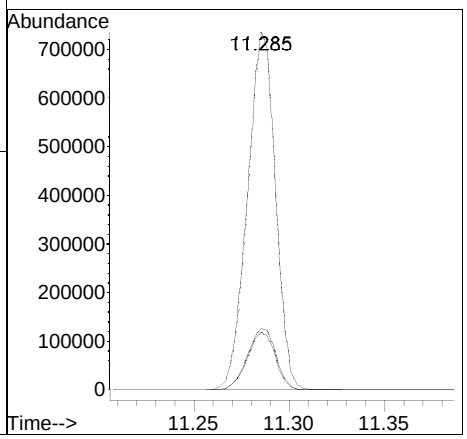




#102
3,3'-Dimethylbenzidine
Concen: 74.88 ug/ml
RT: 11.285 min Scan# 3056
Delta R.T. -0.003 min
Lab File: ADP1205.D
Acq: 5 Dec 2018 1:57 pm

Tgt Ion:212 Resp: 741233

Ion	Ratio	Lower	Upper
212	100		
211	17.7	13.5	20.3
213	16.3	12.9	19.3



Manual Integration Report

Data Path	: I:\8270\SV109\181205\	QMethod	: FS1801003nSV109.m
Data File	: ADP1205.D	Operator	: sv109:jg
Date Inj'd	: 12/5/2018 1:57 pm	Instrument	: SV109
Sample	: wg1185944-5,32,,ADP ICV Lo	Quant Date	: 12/5/2018 8:08 pm

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV109\181205\
Data File : ABN1205a.D
Acq On : 5 Dec 2018 2:22 pm
Operator : sv109:jg
Sample : wg1185944-3,32,,ABN CCV Lot # 7795
Misc : wg1185944,,ical15112
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Dec 05 14:43:34 2018
Quant Method : I:\8270\SV109\181205\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 13:58:36 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	IS1_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	70	0.00
2	t	n-Nitrosodimethylamine		0.832	0.744	10.6	62	0.00
3	t	Pyridine		1.434	1.209	15.7	58	0.00
4	S	2-Fluorophenol		1.236	1.216	1.6	67	0.00
5	T	Aniline		2.063	1.951	5.4	66	0.00
6	t	2-Chlorophenol		1.426	1.435	-0.6	69	0.00
7	S	Phenol-d6		1.536	1.509	1.8	67	0.00
8	T	Phenol		1.655	1.711	-3.4	71	0.00
9	T	Bis(2-chloroethyl)ether		1.336	1.202	10.0	63	0.00
10	T	1,3-Dichlorobenzene		1.604	1.480	7.7	64	0.00
11	T	1,4-Dichlorobenzene		1.649	1.504	8.8	65	0.00
12	T	1,2-Dichlorobenzene		1.595	1.435	10.0	64	0.00
13	t	Benzyl alcohol		1.108	1.076	2.9	64	0.00
14	T	Bis(2-chloroisopropyl)ether		2.247	2.767	-23.1#	86	0.00
15	T	2-Methylphenol		1.248	1.219	2.3	67	0.00
16	T	Hexachloroethane		0.661	0.598	9.5	64	0.00
17	T	n-Nitrosodi-n-propylamine		0.970	0.966	0.4	68	0.00
18	T	3-Methylphenol/4-Methylphen		1.301	1.305	-0.3	68	0.00
19	S	Nitrobenzene-d5		1.445	1.407	2.6	67	0.00
20	T	Nitrobenzene		1.476	1.420	3.8	66	0.00
21	T	Isophorone		2.640	2.546	3.6	66	0.00
22	T	2-Nitrophenol		0.695	0.806	-16.0	74	0.00
23	T	2,4-Dimethylphenol		1.262	1.329	-5.3	70	0.00
24	T	Bis(2-chloroethoxy)methane		1.706	1.654	3.0	67	0.00
25	T	2,4-Dichlorophenol		1.178	1.206	-2.4	69	0.00
26	T	1,2,4-Trichlorobenzene		1.373	1.294	5.8	67	0.00
34	I	IS1_Naphthalene-d8		1.000	1.000	0.0	73	0.00
35	T	Naphthalene		1.043	1.005	3.6	70	0.00
36	T	Benzoic Acid	*	50.000	50.844	-1.7	77	0.00
37	T	4-Chloroaniline		0.131	0.129	1.5	68	0.00
38	T	Hexachlorobutadiene		0.194	0.168	13.4	63	0.00
39	T	p-Chloro-m-cresol		0.280	0.304	-8.6	74	0.00
40	T	2-Methylnaphthalene		0.694	0.689	0.7	71	0.00
41	T	1-Methylnaphthalene		0.245	0.236	3.7	70	0.00
42	T	Hexachlorocyclopentadiene		0.230	0.199	13.5	62	0.00
43	T	2,4,6-Trichlorophenol		0.202	0.218	-7.9	73	0.00
44	T	2,4,5-Trichlorophenol		0.217	0.231	-6.5	73	0.00
45	S	2-Fluorobiphenyl		0.770	0.749	2.7	70	0.00

Data Path : I:\8270\SV109\181205\
Data File : ABN1205a.D
Acq On : 5 Dec 2018 2:22 pm
Operator : sv109:jg
Sample : wg1185944-3,32,,ABN CCV Lot # 7795
Misc : wg1185944,,ical15112
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Dec 05 14:43:34 2018
Quant Method : I:\8270\SV109\181205\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 13:58:36 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
46	T	2-Chloronaphthalene		0.652	0.648	0.6	71	0.00
47	T	2-Nitroaniline		0.206	0.240	-16.5	78	0.00
48	T	1,4-Dinitrobenzene		0.095	0.111	-16.8	82	0.00
49	T	1,3-Dinitrobenzene		0.111	0.124	-11.7	78	0.00
50	T	Dimethyl phthalate		0.772	0.818	-6.0	75	0.00
51	T	Acenaphthylene		1.050	1.065	-1.4	72	0.00
52	T	2,6-Dinitrotoluene		0.161	0.178	-10.6	75	0.00
53	T	1,2-Dinitrobenzene		0.072	0.078	-8.3	76	0.00
62	I	IS1_Acenaphthene-d10		1.000	1.000	0.0	80	0.00
63	T	3-Nitroaniline		0.369	0.387	-4.9	78	0.00
64	T	Acenaphthene		1.223	1.096	10.4	73	0.00
65	T	2,4-Dinitrophenol	*	50.000	55.474	-10.9	96	0.00
66	T	Dibenzofuran		1.919	1.731	9.8	73	0.00
67	T	2,4-Dinitrotoluene		0.430	0.456	-6.0	77	0.00
68	T	4-Nitrophenol		0.307	0.305	0.7	76	0.00
69	T	2,3,5,6-Tetrachlorophenol		0.371	0.361	2.7	72	0.00
70	T	2,3,4,6-Tetrachlorophenol		0.393	0.365	7.1	72	0.00
71	T	Diethyl phthalate		1.609	1.607	0.1	77	0.00
72	T	Fluorene		1.483	1.390	6.3	74	0.00
73	T	4-Chlorophenyl phenyl ether		0.717	0.670	6.6	74	0.00
74	T	4-Nitroaniline		0.366	0.394	-7.7	78	0.00
75	T	4,6-Dinitro-o-cresol	*	50.000	55.198	-10.4	91	0.00
76	T	NDPA/DPA		1.257	1.219	3.0	76	0.00
77	T	Azobenzene		1.532	1.391	9.2	71	0.00
78	S	2,4,6-Tribromophenol		0.265	0.230	13.2	65	0.00
79	T	4-Bromophenyl phenyl ether		0.438	0.394	10.0	72	0.00
80	T	Hexachlorobenzene		0.542	0.446	17.7	66	0.00
81	T	Pentachlorophenol	*	50.000	43.118	13.8	73	0.00
87	I	IS1_Phenanthrene-d10		1.000	1.000	0.0	79	0.00
88	T	Phenanthrene		1.130	1.075	4.9	75	0.00
89	T	Anthracene		1.122	1.099	2.0	75	0.00
90	T	Carbazole		1.043	1.068	-2.4	78	0.00
91	T	Di-n-butylphthalate		1.303	1.445	-10.9	81	0.00
92	T	Fluoranthene		1.196	1.245	-4.1	80	0.00
93	T	Benzidine		0.750	0.821	-9.5	81	0.00
94	T	Pyrene		1.257	1.292	-2.8	79	0.00
95	S	4-Terphenyl-d14		0.940	0.957	-1.8	77	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV109\181205\
Data File : ABN1205a.D
Acq On : 5 Dec 2018 2:22 pm
Operator : sv109:jg
Sample : wg1185944-3,32,,ABN CCV Lot # 7795
Misc : wg1185944,,ical15112
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Dec 05 14:43:34 2018
Quant Method : I:\8270\SV109\181205\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 13:58:36 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96	T	Butyl benzyl phthalate	0.566	0.684	-20.8#	87	0.00
103	I	IS1_Chrysene-d12	1.000	1.000	0.0	78	0.00
104	T	Benzo(a)anthracene	1.227	1.244	-1.4	80	0.00
105	T	3,3'-Dichlorobenzidine	0.482	0.506	-5.0	77	0.00
106	T	Chrysene	1.177	1.170	0.6	80	0.00
107	T	Bis(2-ethylhexyl)phthalate	0.800	0.985	-23.1#	86	0.00
108	T	Di-n-octylphthalate	1.320	1.726	-30.8#	90	0.00
109	T	Benzo(b)fluoranthene	1.108	1.208	-9.0	83	0.00
110	T	Benzo(k)fluoranthene	1.214	1.238	-2.0	81	0.00
111	T	Benzo(a)pyrene	1.118	1.200	-7.3	82	0.00
112	I	IS1_Perylene-d12	1.000	1.000	0.0	83	0.00
113	T	Indeno(1,2,3-cd)pyrene	1.019	1.107	-8.6	85	0.00
114	T	Dibenzo(a,h)anthracene	1.072	1.118	-4.3	82	0.00
115	T	Benzo(ghi)perylene	1.140	1.145	-0.4	82	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181205\
Data File : ABN1205a.D
Acq On : 5 Dec 2018 2:22 pm
Operator : sv109:jg
Sample : wg1185944-3,32,,ABN CCV Lot # 7795
Misc : wg1185944,,ical15112
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Dec 05 14:43:34 2018
Quant Method : I:\8270\SV109\181205\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 13:58:36 2018
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.749	152	124127	40.000	ug/ml	0.00
34) IS1_Naphthalene-d8	5.992	136	530407	40.000	ug/ml	0.00
62) IS1_Acenaphthene-d10	7.702	164	294014	40.000	ug/ml	0.00
87) IS1_Phenanthrene-d10	9.137	188	574704	40.000	ug/ml	0.00
103) IS1_Chrysene-d12	11.994	240	594823	40.000	ug/ml	0.00
112) IS1_Perylene-d12	14.120	264	616042	40.000	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	3.471	112	188607	49.172	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 130		Recovery = 98.34%			
7) Phenol-d6	4.423	99	234181	49.119	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 130		Recovery = 98.24%			
19) Nitrobenzene-d5	5.293	82	218319	48.676	ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery = 194.70%#			
45) 2-Fluorobiphenyl	7.061	172	496621	48.634	ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery = 194.54%#			
78) 2,4,6-Tribromophenol	8.466	330	84711	43.558	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 130		Recovery = 87.12%			
95) 4-Terphenyl-d14	10.735	244	687685	50.935	ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery = 203.74%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.091	74	115510	44.719	ug/ml#	69
3) Pyridine	2.132	79	187510	42.131	ug/ml	91
5) Aniline	4.429	93	302643	47.269	ug/ml	99
6) 2-Chlorophenol	4.544	128	222617	50.293	ug/ml	97
8) Phenol	4.438	94	265405	51.686	ug/ml	98
9) Bis(2-chloroethyl)ether	4.506	93	186512	44.993	ug/ml	95
10) 1,3-Dichlorobenzene	4.693	146	229644	46.122	ug/ml	98
11) 1,4-Dichlorobenzene	4.764	146	233390	45.603	ug/ml	98
12) 1,2-Dichlorobenzene	4.914	146	222680	44.977	ug/ml	98
13) Benzyl alcohol	4.901	79	166877	48.534	ug/ml	99
14) Bis(2-chloroisopropyl)...	5.044	45	429278	61.561	ug/ml	94
15) 2-Methylphenol	5.029	108	189119	48.828	ug/ml	99
16) Hexachloroethane	5.243	117	92726	45.225	ug/ml	99
17) n-Nitrosodi-n-propylamine	5.172	70	149956	49.805	ug/ml	99
18) 3-Methylphenol/4-Methy...	5.187	108	202420	50.153	ug/ml	99
20) Nitrobenzene	5.311	77	220342	48.109	ug/ml	99
21) Isophorone	5.554	82	395034	48.223	ug/ml	97
22) 2-Nitrophenol	5.628	139	125005	57.998	ug/ml	97

Data Path : I:\8270\SV109\181205\
Data File : ABN1205a.D
Acq On : 5 Dec 2018 2:22 pm
Operator : sv109:jg
Sample : wg1185944-3,32,,ABN CCV Lot # 7795
Misc : wg1185944,,ical15112
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Dec 05 14:43:34 2018
Quant Method : I:\8270\SV109\181205\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 13:58:36 2018
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) 2,4-Dimethylphenol	5.700	107	206223	52.646	ug/ml	99
24) Bis(2-chloroethoxy)met...	5.787	93	256638	48.468	ug/ml	98
25) 2,4-Dichlorophenol	5.868	162	187173	51.210	ug/ml	99
26) 1,2,4-Trichlorobenzene	5.945	180	200731	47.107	ug/ml	99
35) Naphthalene	6.011	128	666622	48.211	ug/ml	99
36) Benzoic Acid	5.815	105	176186	50.844	ug/ml	99
37) 4-Chloroaniline	6.079	65	85328	49.143	ug/ml	99
38) Hexachlorobutadiene	6.157	225	111434	43.281	ug/ml	98
39) p-Chloro-m-cresol	6.573	107	201477	54.316	ug/ml	99
40) 2-Methylnaphthalene	6.691	142	456941	49.682	ug/ml	98
41) 1-Methylnaphthalene	6.785	115	156548	48.207	ug/ml	91
42) Hexachlorocyclopentadiene	6.859	237	131925	43.217	ug/ml	99
43) 2,4,6-Trichlorophenol	6.977	196	144421	53.989	ug/ml	100
44) 2,4,5-Trichlorophenol	7.008	196	153012	53.257	ug/ml	99
46) 2-Chloronaphthalene	7.161	162	429312	49.625	ug/ml	99
47) 2-Nitroaniline	7.270	138	159107	58.169	ug/ml	98
48) 1,4-Dinitrobenzene	7.406	168	73669	58.717	ug/ml	93
49) 1,3-Dinitrobenzene	7.481	168	82121	55.830	ug/ml	91
50) Dimethyl phthalate	7.472	163	542395	52.968	ug/ml	100
51) Acenaphthylene	7.559	152	705867	50.693	ug/ml	99
52) 2,6-Dinitrotoluene	7.518	165	118156	55.496	ug/ml	99
53) 1,2-Dinitrobenzene	7.562	168	51427	53.842	ug/ml	82
63) 3-Nitroaniline	7.670	138	142309	52.421	ug/ml#	96
64) Acenaphthene	7.733	154	402924	44.818	ug/ml	99
65) 2,4-Dinitrophenol	7.773	184	79099	55.474	ug/ml	95
66) Dibenzofuran	7.900	168	636225	45.115	ug/ml	97
67) 2,4-Dinitrotoluene	7.907	165	167411	52.947	ug/ml	94
68) 4-Nitrophenol	7.857	65	112228	49.694	ug/ml	94
69) 2,3,5,6-Tetrachlorophenol	7.991	232	132699	48.651	ug/ml	98
70) 2,3,4,6-Tetrachlorophenol	8.031	232	134107	46.401	ug/ml	99
71) Diethyl phthalate	8.165	149	590768	49.966	ug/ml	100
72) Fluorene	8.233	166	510905	46.885	ug/ml	98
73) 4-Chlorophenyl phenyl ...	8.249	204	246075	46.693	ug/ml	99
74) 4-Nitroaniline	8.261	138	144881	53.854	ug/ml	95
75) 4,6-Dinitro-o-cresol	8.301	198	101777	55.198	ug/ml	94
76) NDPA/DPA	8.367	169	447879	48.476	ug/ml	99
77) Azobenzene	8.401	77	511259	45.415	ug/ml	99
79) 4-Bromophenyl phenyl e...	8.718	248	144718	45.002	ug/ml	98
80) Hexachlorobenzene	8.774	284	163938	41.124	ug/ml	95
81) Pentachlorophenol	8.967	266	106038	43.118	ug/ml	99
88) Phenanthrene	9.159	178	772366	47.568	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181205\
Data File : ABN1205a.D
Acq On : 5 Dec 2018 2:22 pm
Operator : sv109:jg
Sample : wg1185944-3,32,,ABN CCV Lot # 7795
Misc : wg1185944,,ical15112
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Dec 05 14:43:34 2018
Quant Method : I:\8270\SV109\181205\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 13:58:36 2018
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
89)	Anthracene	9.209	178	789346	48.982	ug/ml	99
90)	Carbazole	9.374	167	766917	51.172	ug/ml	99
91)	Di-n-butylphthalate	9.756	149	1038221	55.478	ug/ml	100
92)	Fluoranthene	10.315	202	894039	52.044	ug/ml	98
93)	Benzidine	10.468	184	589439	54.672	ug/ml	98
94)	Pyrene	10.539	202	928398	51.416	ug/ml	99
96)	Butyl benzyl phthalate	11.329	149	491340	60.391	ug/ml	98
104)	Benzo(a)anthracene	11.978	228	924766	50.675	ug/ml	99
105)	3,3'-Dichlorobenzidine	11.978	252	376404	52.557	ug/ml	99
106)	Chrysene	12.028	228	870055	49.716	ug/ml	99
107)	Bis(2-ethylhexyl)phtha...	12.143	149	732430	61.557	ug/ml	99
108)	Di-n-octylphthalate	13.125	149	1283412	65.389	ug/ml#	94
109)	Benzo(b)fluoranthene	13.545	252	898126	54.509	ug/ml	98
110)	Benzo(k)fluoranthene	13.588	252	920807	50.987	ug/ml	99
111)	Benzo(a)pyrene	14.030	252	892513	53.702	ug/ml	98
113)	Indeno(1,2,3-cd)pyrene	15.727	276	852671	54.353	ug/ml	97
114)	Dibenzo(a,h)anthracene	15.776	278	860574	52.146	ug/ml	98
115)	Benzo(ghi)perylene	16.103	276	882083	50.252	ug/ml	97

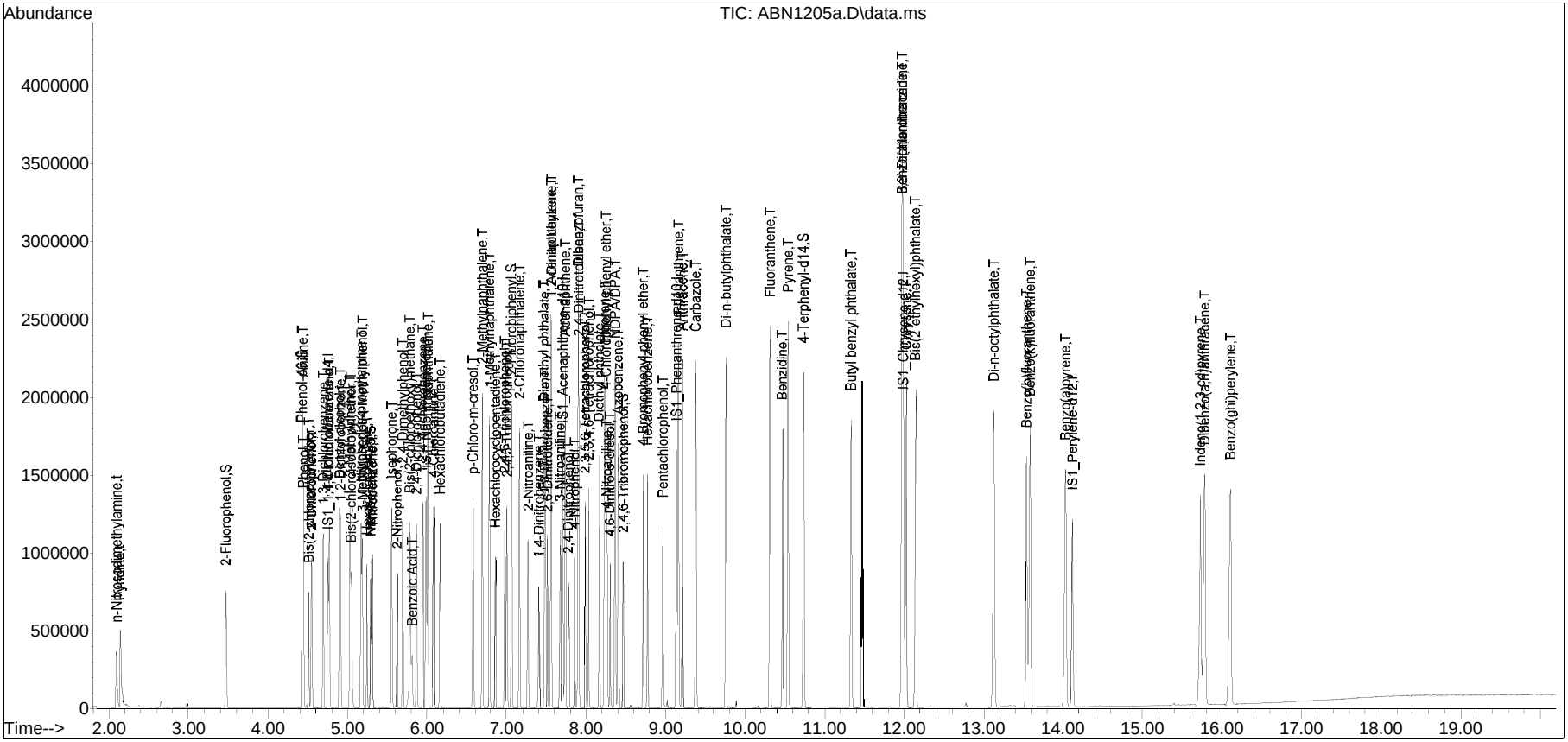
(#) = qualifier out of range (m) = manual integration (+) = signals summed

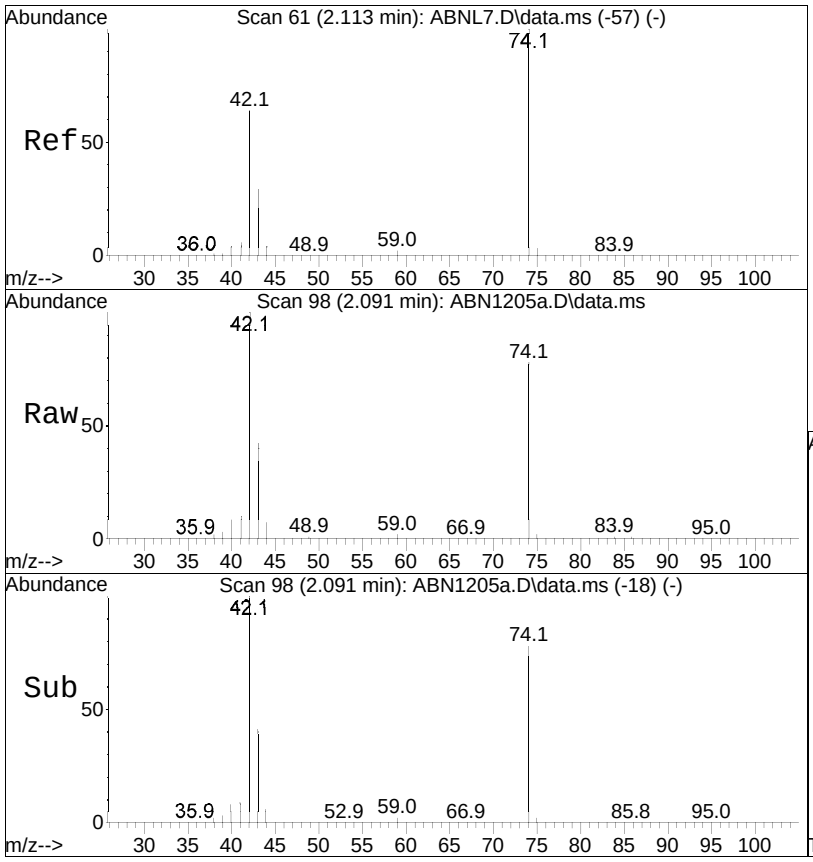
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181205\
Data File : ABN1205a.D
Acq On : 5 Dec 2018 2:22 pm
Operator : sv109:jg
Sample : wg1185944-3,32,,ABN CCV Lot # 7795
Misc : wg1185944,,ical15112
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Dec 05 14:43:34 2018
Quant Method : I:\8270\SV109\181205\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 13:58:36 2018
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

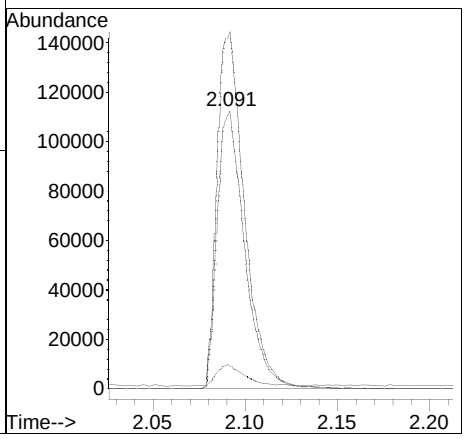


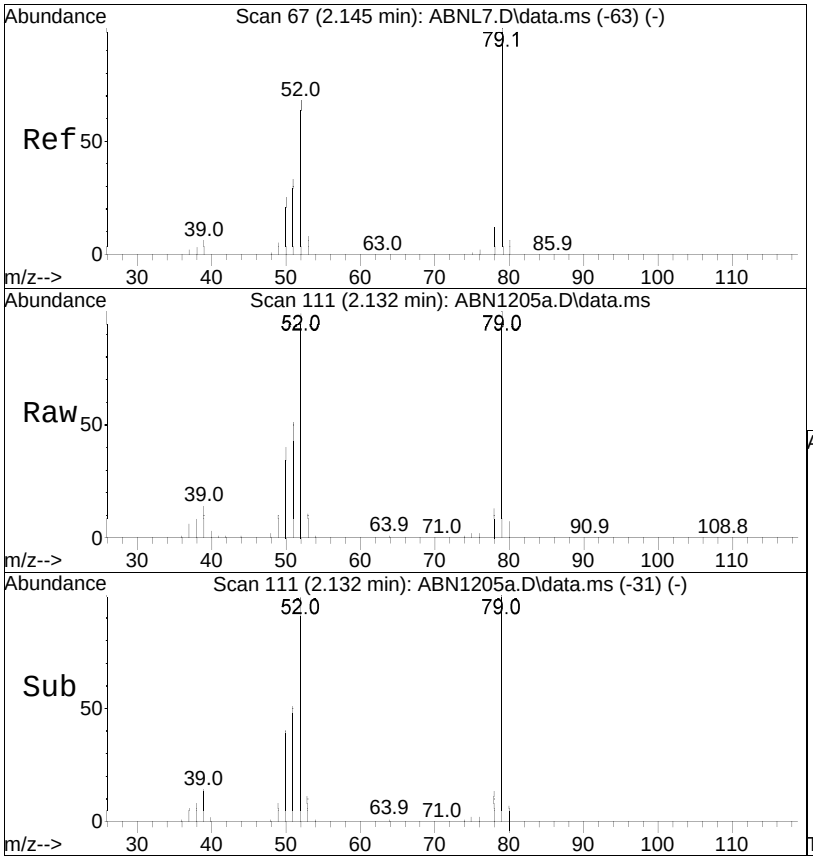


#2
n-Nitrosodimethylamine
Concen: 44.72 ug/ml
RT: 2.091 min Scan# 98
Delta R.T. -0.000 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion: 74 Resp: 115510

Ion	Ratio	Lower	Upper
74	100		
42	127.0	75.7	113.5#
44	7.9	5.7	8.5

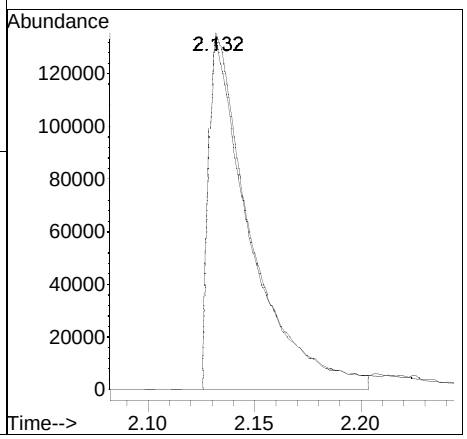


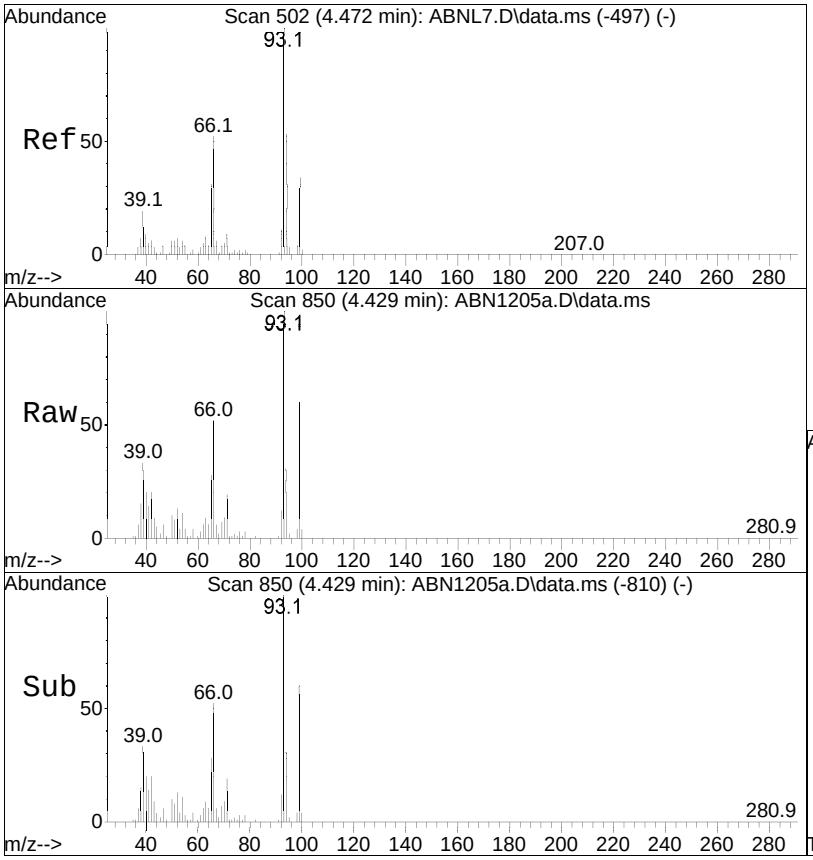


#3
Pyridine
Concen: 42.13 ug/ml
RT: 2.132 min Scan# 111
Delta R.T. -0.000 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion: 79 Resp: 187510

Ion	Ratio	Lower	Upper
79	100		
52	97.9	71.8	107.8

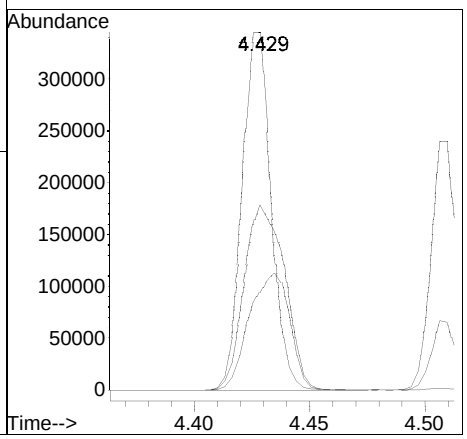


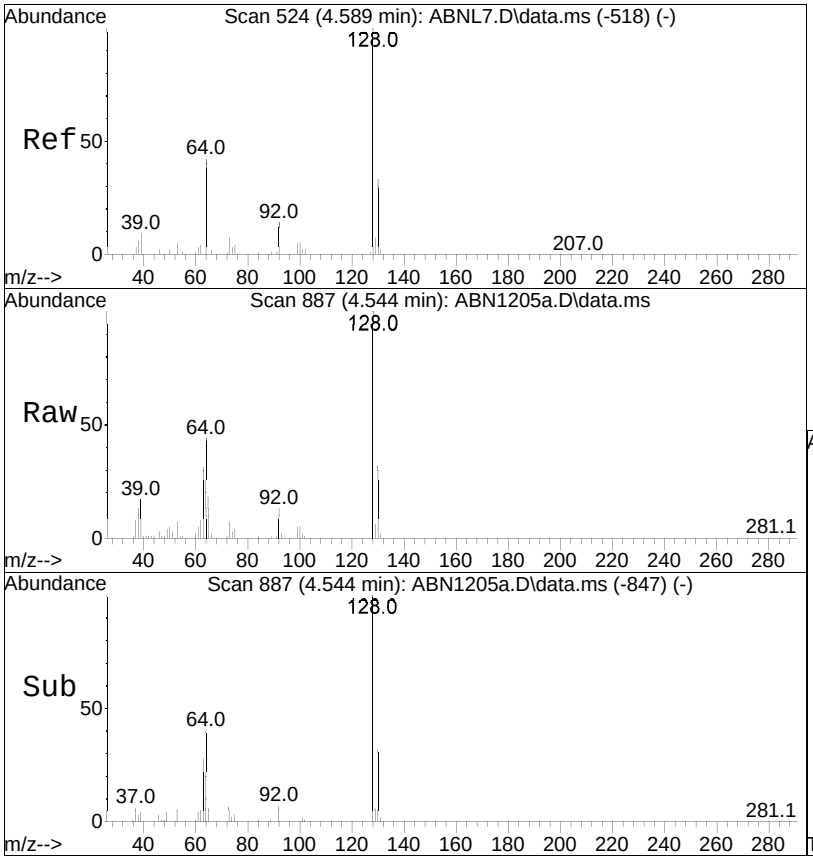


#5
Aniline
Concen: 47.27 ug/ml
RT: 4.429 min Scan# 850
Delta R.T. -0.000 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion: 93 Resp: 302643

Ion	Ratio	Lower	Upper
93	100		
66	72.1	57.0	85.4
65	45.4	36.2	54.2

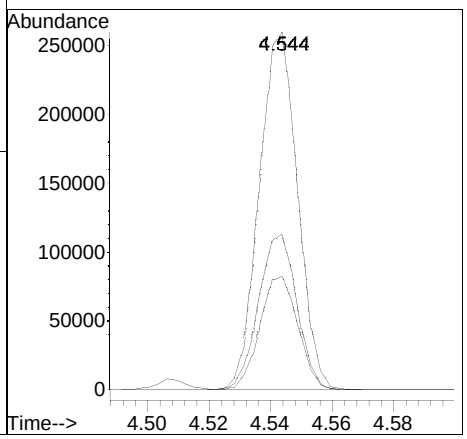


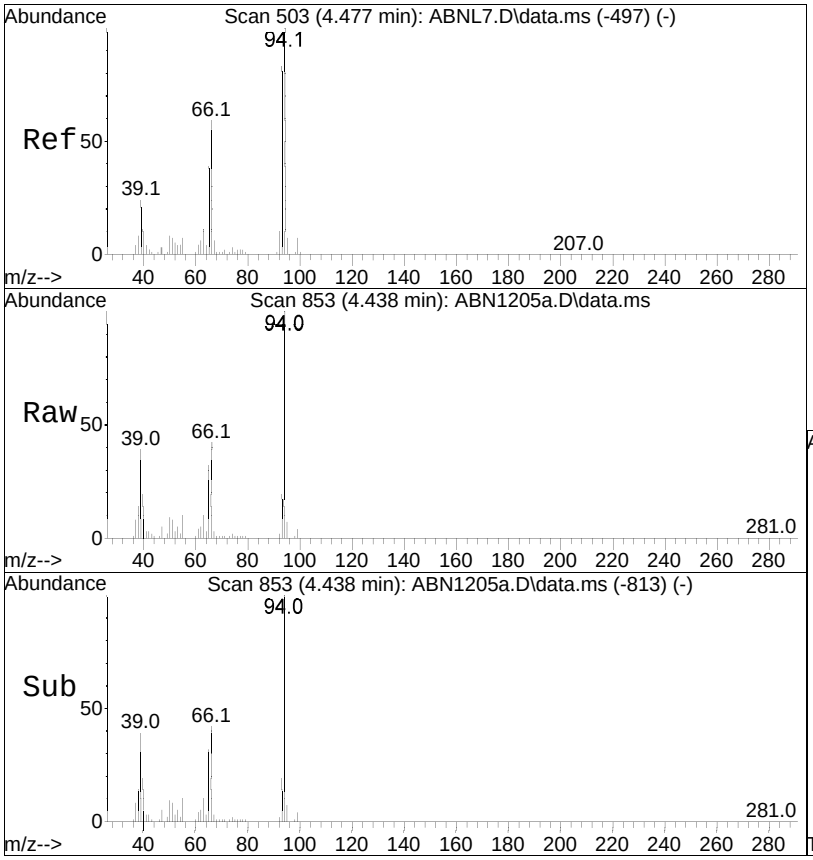


#6
2-Chlorophenol
Concen: 50.29 ug/ml
RT: 4.544 min Scan# 887
Delta R.T. -0.000 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion:128 Resp: 222617

Ion	Ratio	Lower	Upper
128	100		
64	43.7	38.1	57.1
130	32.0	25.7	38.5

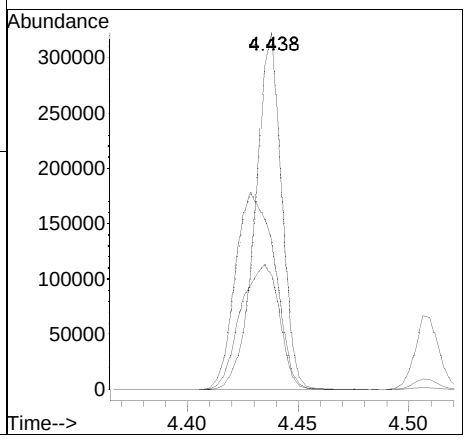


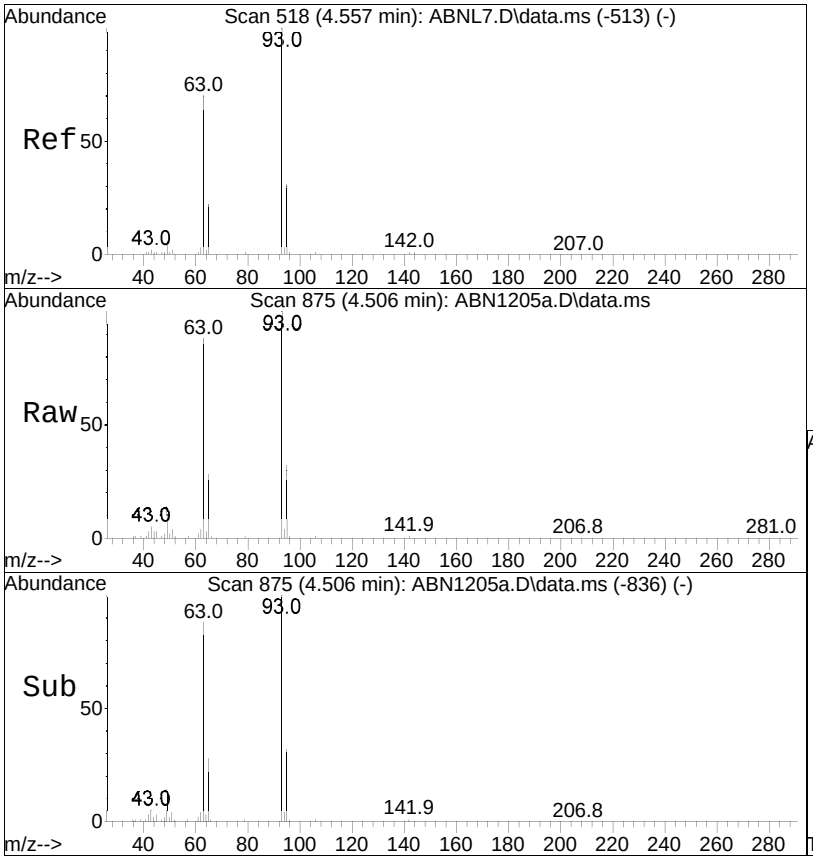


#8
Phenol
Concen: 51.69 ug/ml
RT: 4.438 min Scan# 853
Delta R.T. -0.000 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion: 94 Resp: 265405

Ion	Ratio	Lower	Upper
94	100		
65	51.7	40.7	61.1
66	82.2	64.1	96.1

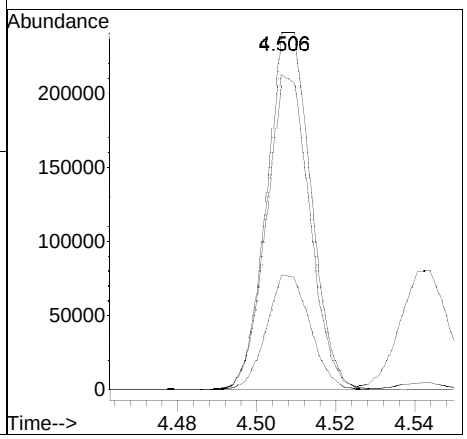


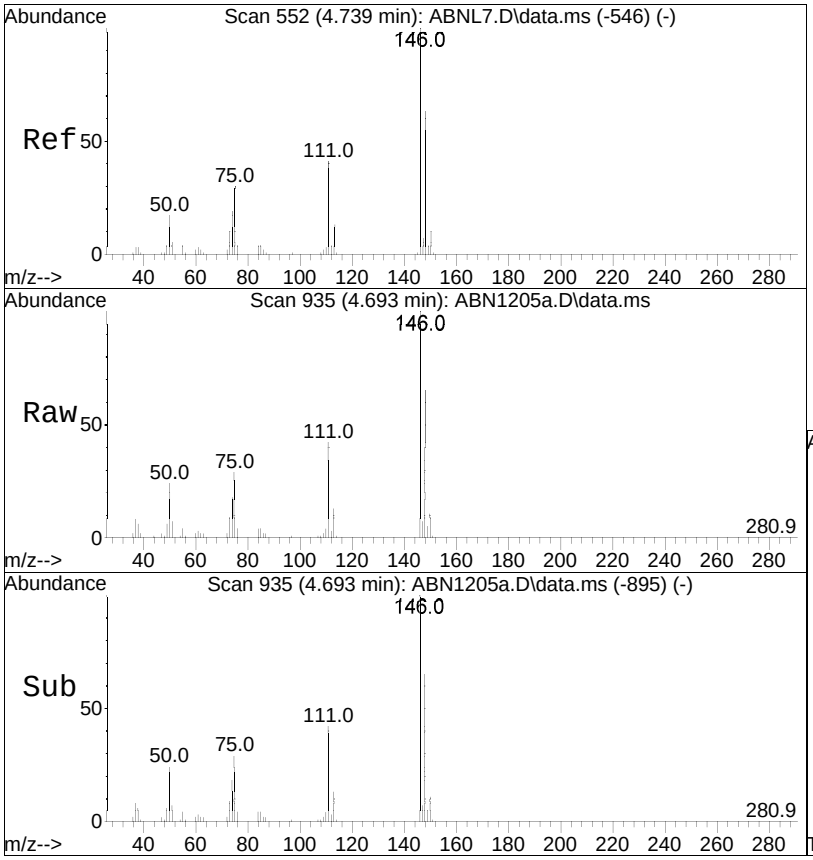


#9
Bis(2-chloroethyl)ether
Concen: 44.99 ug/ml
RT: 4.506 min Scan# 875
Delta R.T. -0.003 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion: 93 Resp: 186512

Ion	Ratio	Lower	Upper
93	100		
63	86.6	73.7	110.5
95	31.9	26.9	40.3

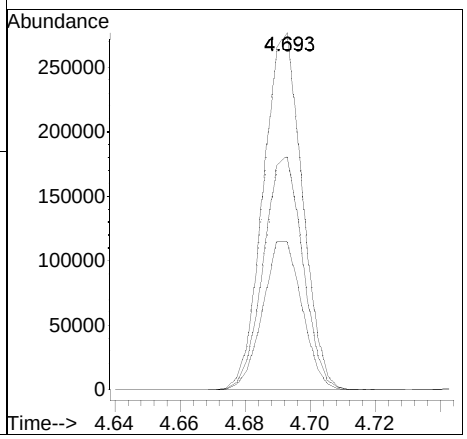


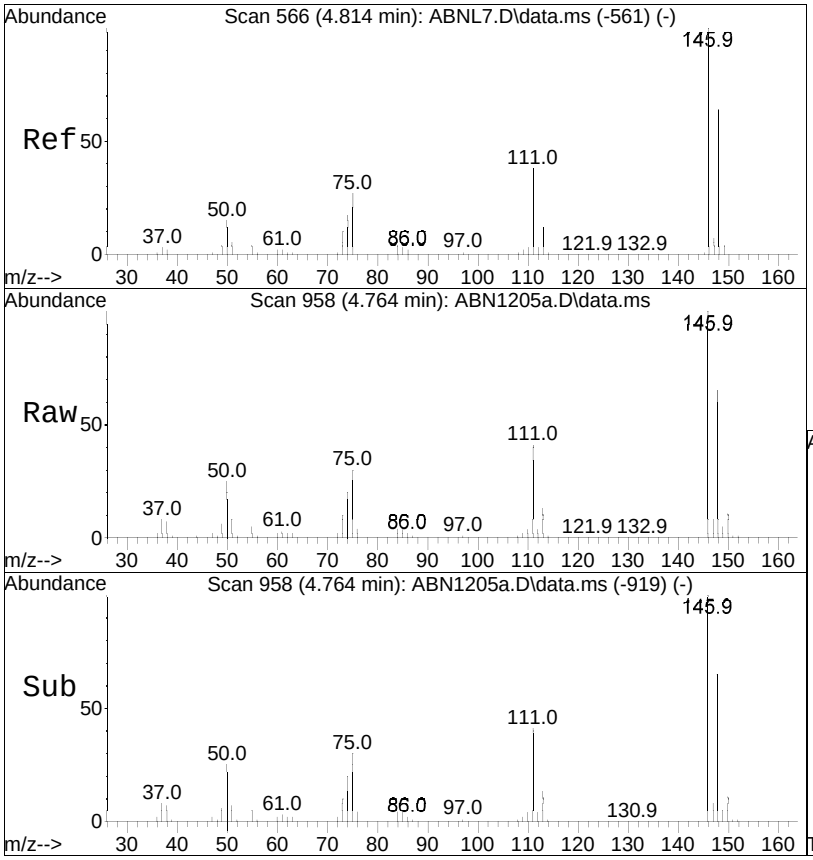


#10
1,3-Dichlorobenzene
Concen: 46.12 ug/ml
RT: 4.693 min Scan# 935
Delta R.T. -0.000 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion:146 Resp: 229644

Ion	Ratio	Lower	Upper
146	100		
111	42.2	33.0	49.4
148	65.7	51.0	76.6

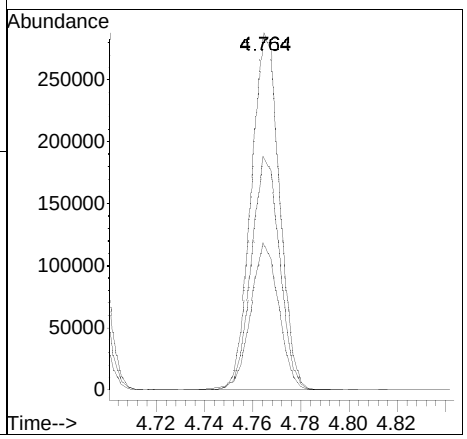


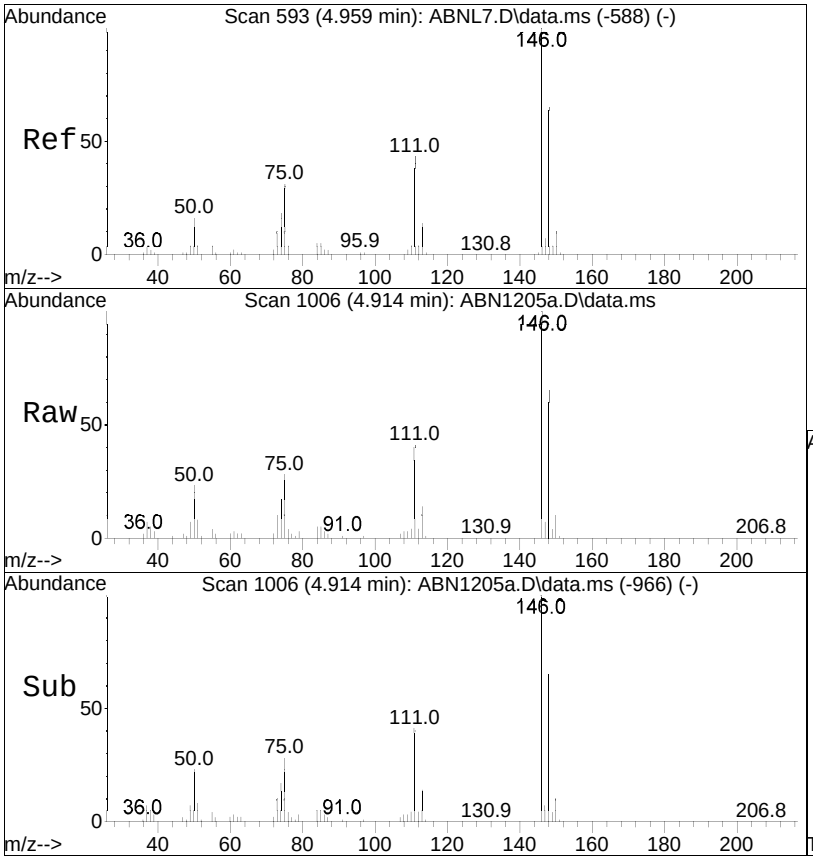


#11
1,4-Dichlorobenzene
Concen: 45.60 ug/ml
RT: 4.764 min Scan# 958
Delta R.T. -0.003 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion:146 Resp: 233390

Ion	Ratio	Lower	Upper
146	100		
148	65.2	51.4	77.0
111	41.1	31.8	47.8

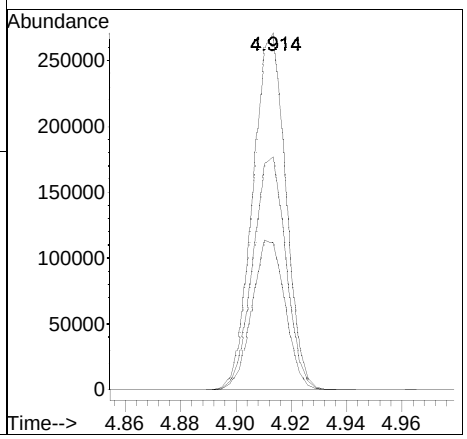


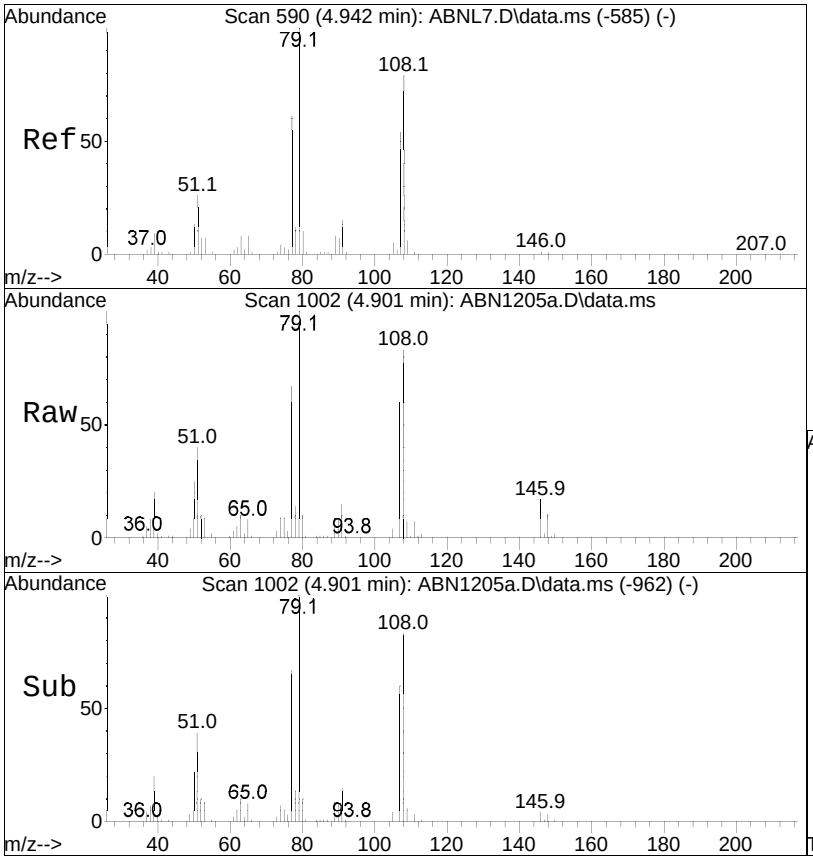


#12
1,2-Dichlorobenzene
Concen: 44.98 ug/ml
RT: 4.914 min Scan# 1006
Delta R.T. -0.000 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion:146 Resp: 222680

Ion	Ratio	Lower	Upper
146	100		
111	42.4	32.8	49.2
148	65.4	51.4	77.2

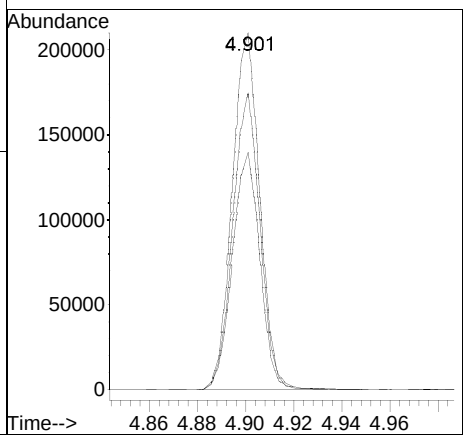


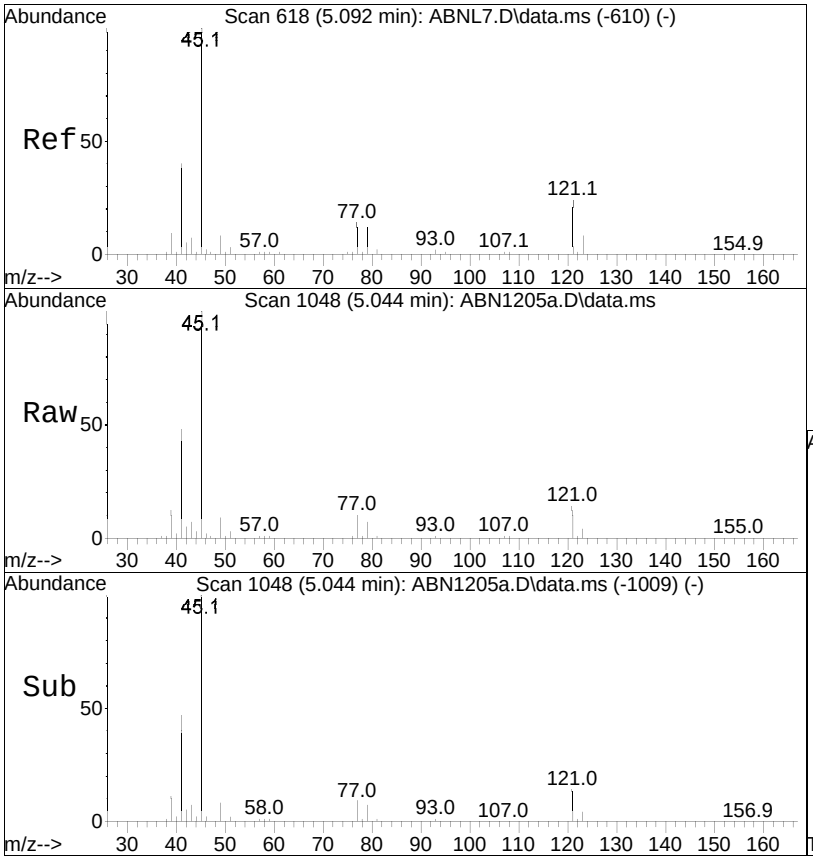


#13
Benzyl alcohol
Concen: 48.53 ug/ml
RT: 4.901 min Scan# 1002
Delta R.T. -0.000 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion: 79 Resp: 166877

Ion	Ratio	Lower	Upper
79	100		
77	66.7	52.4	78.6
108	82.6	66.7	100.1

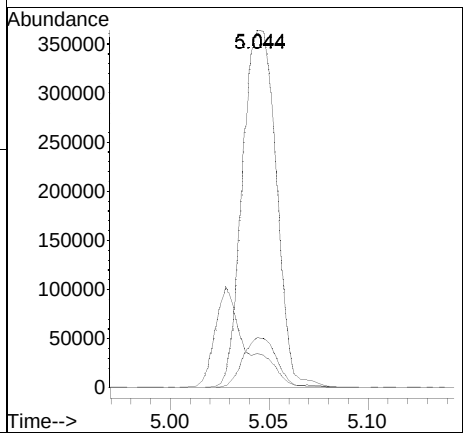


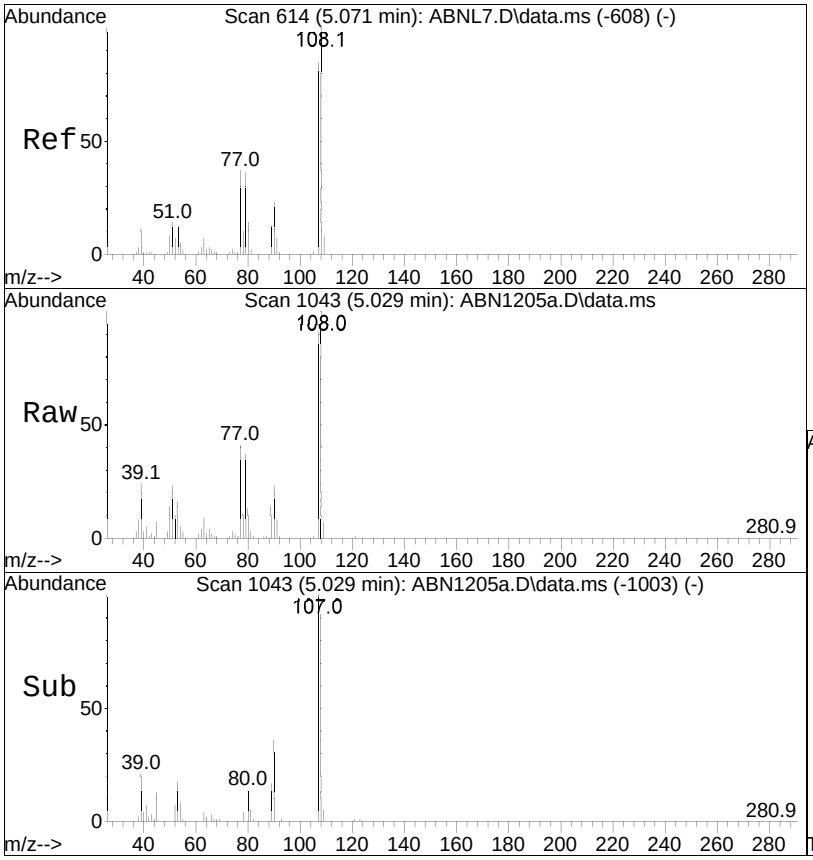


#14
Bis(2-chloroisopropyl)ether
Concen: 61.56 ug/ml
RT: 5.044 min Scan# 1048
Delta R.T. -0.003 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion: 45 Resp: 429278

Ion	Ratio	Lower	Upper
45	100		
121	14.0	12.6	19.0
77	27.2	24.6	37.0

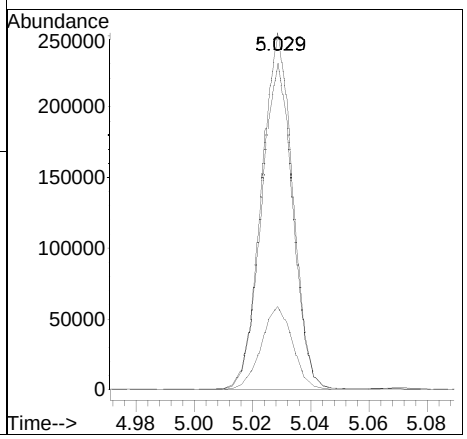


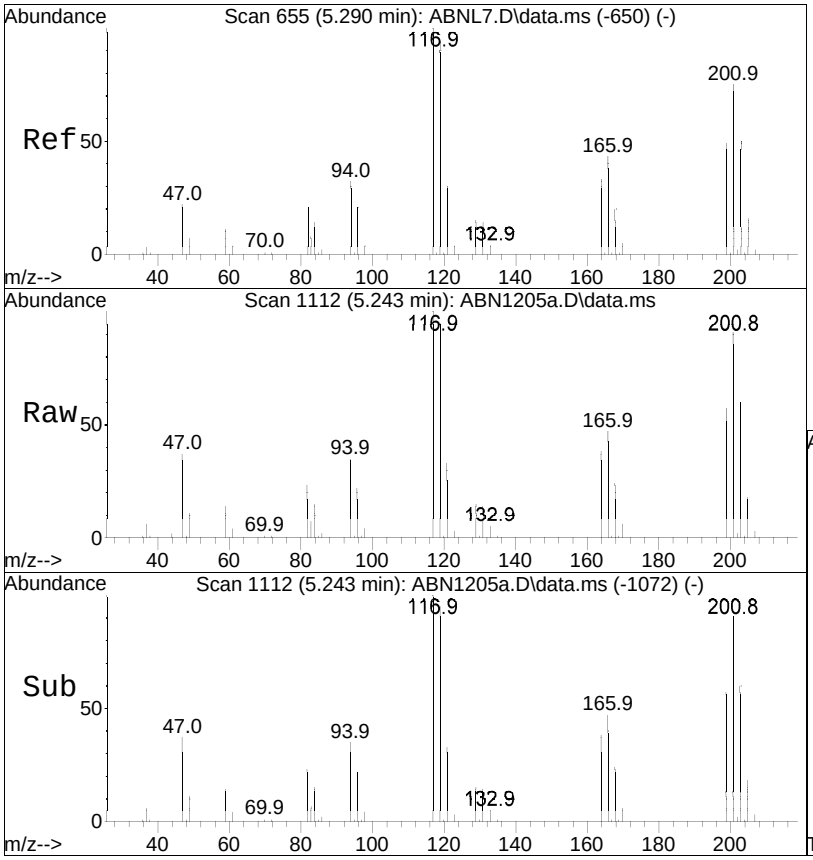


#15
2-Methylphenol
Concen: 48.83 ug/ml
RT: 5.029 min Scan# 1043
Delta R.T. -0.000 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion:108 Resp: 189119

Ion	Ratio	Lower	Upper
108	100		
107	91.7	72.6	108.8
90	23.3	19.2	28.8

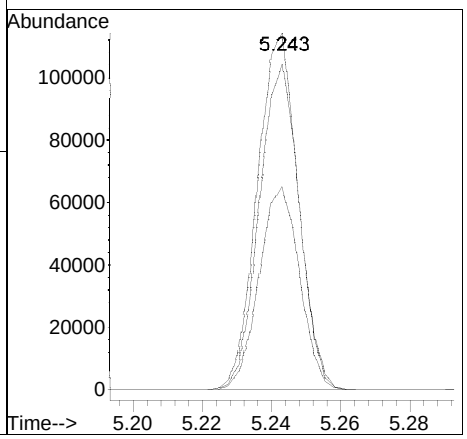


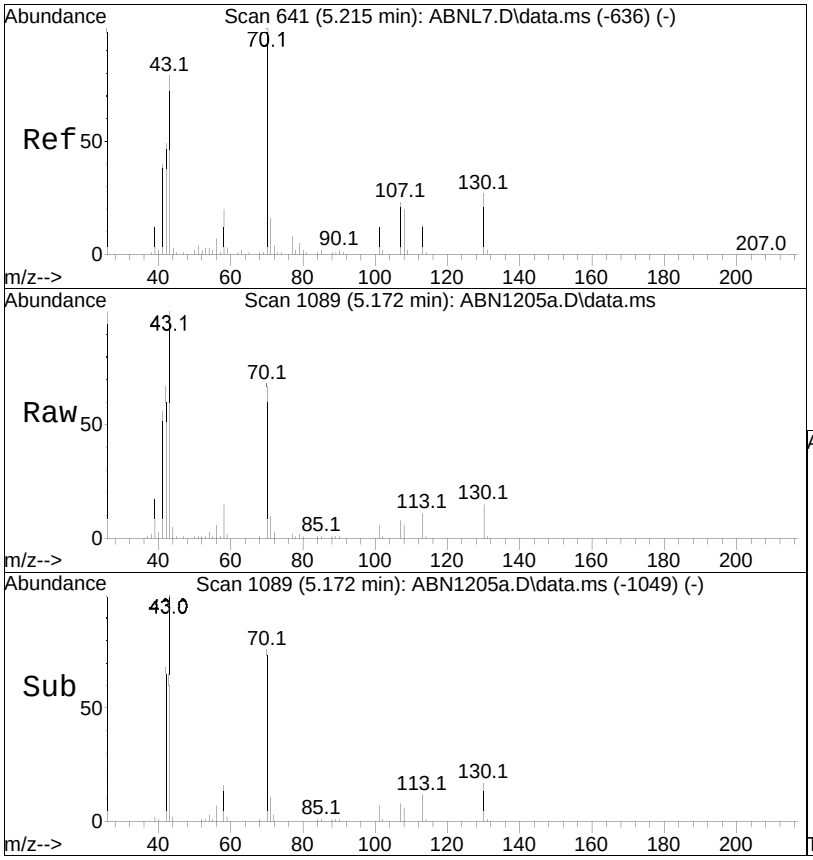


#16
Hexachloroethane
Concen: 45.22 ug/ml
RT: 5.243 min Scan# 1112
Delta R.T. -0.000 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion:117 Resp: 92726

Ion	Ratio	Lower	Upper
117	100		
201	90.1	72.7	109.1
199	56.8	46.2	69.2

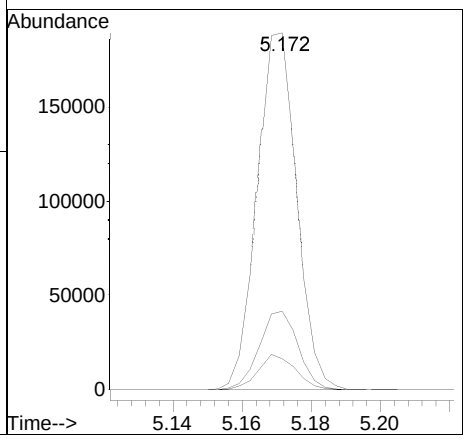


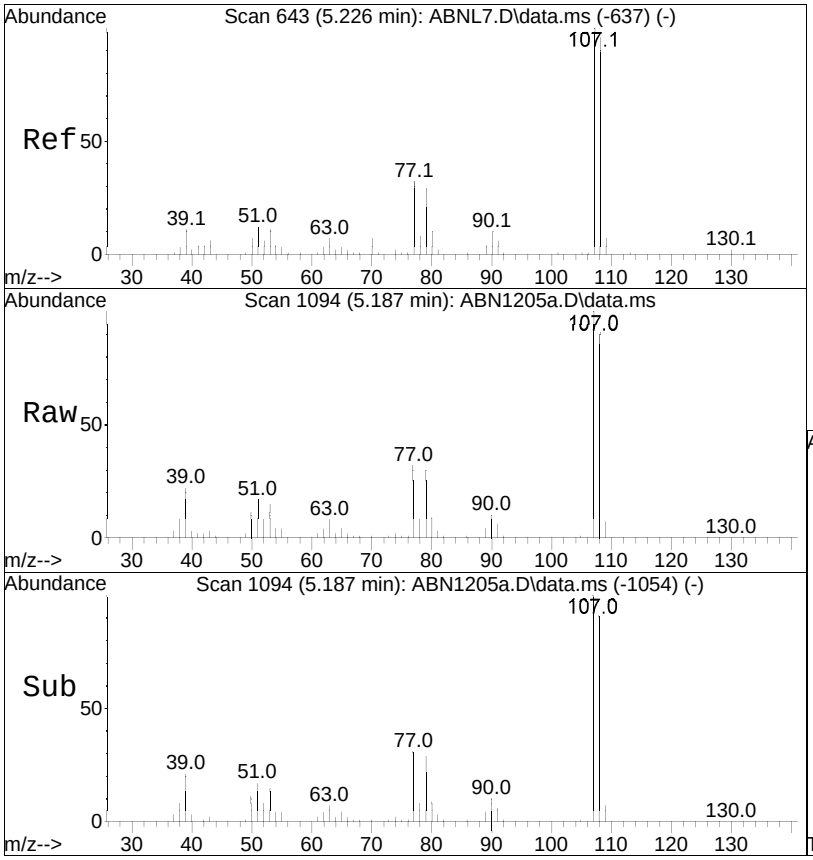


#17
n-Nitrosodi-n-propylamine
Concen: 49.80 ug/ml
RT: 5.172 min Scan# 1089
Delta R.T. -0.000 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion: 70 Resp: 149956

Ion	Ratio	Lower	Upper
70	100		
130	21.6	16.6	24.8
101	9.3	7.4	11.0

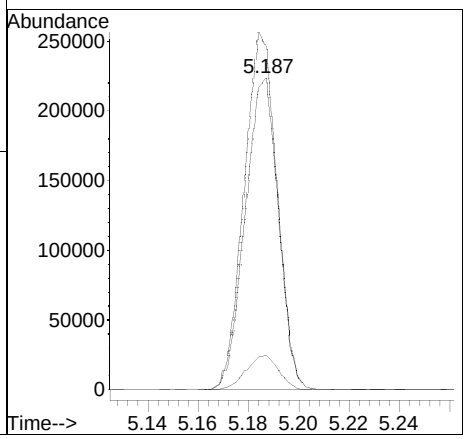


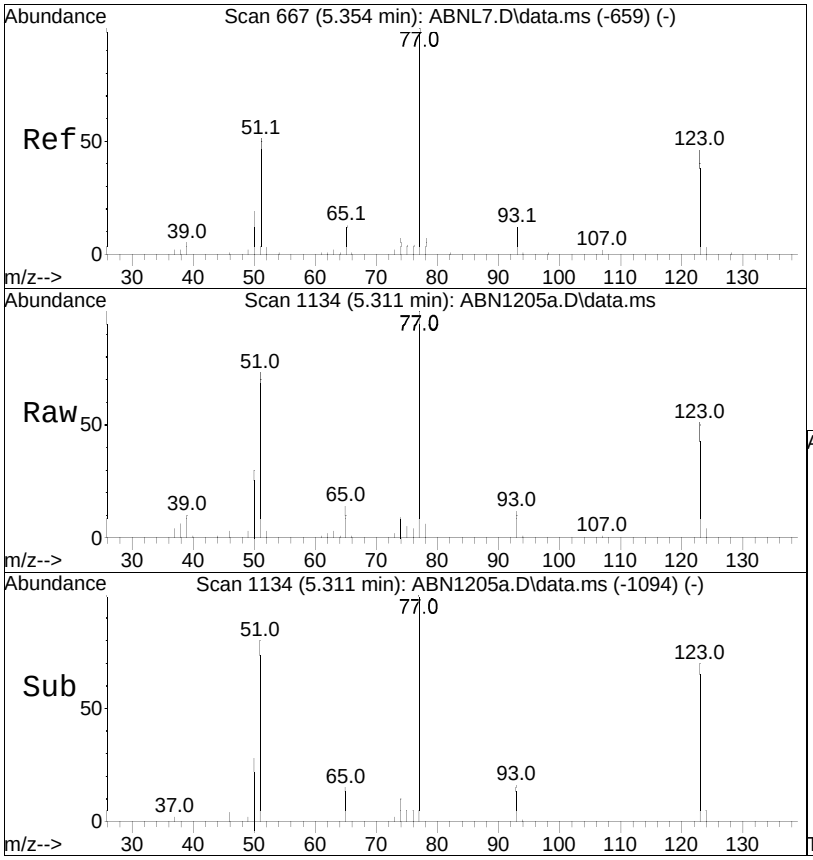


#18
3-Methylphenol/4-Methylphenol
Concen: 50.15 ug/ml
RT: 5.187 min Scan# 1094
Delta R.T. -0.000 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion:108 Resp: 202420

Ion	Ratio	Lower	Upper
108	100		
107	114.5	91.0	136.6
90	11.0	8.7	13.1

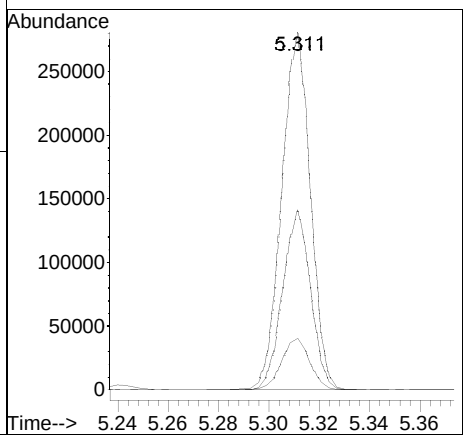


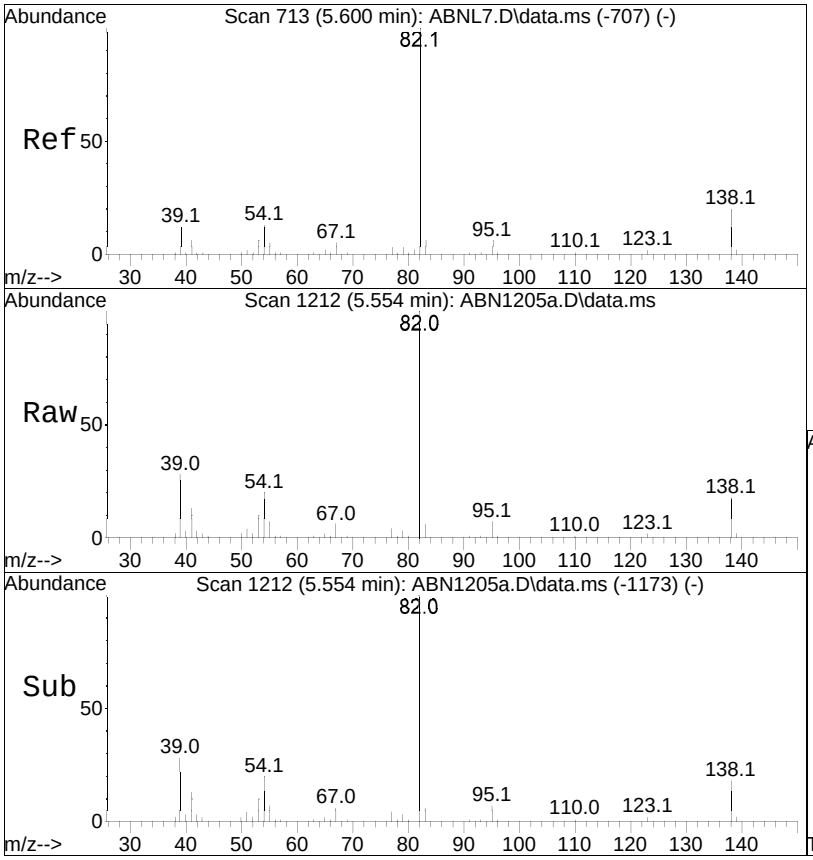


#20
Nitrobenzene
Concen: 48.11 ug/ml
RT: 5.311 min Scan# 1134
Delta R.T. -0.000 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion: 77 Resp: 220342

Ion	Ratio	Lower	Upper
77	100		
123	49.0	38.5	57.7
65	14.3	11.4	17.0

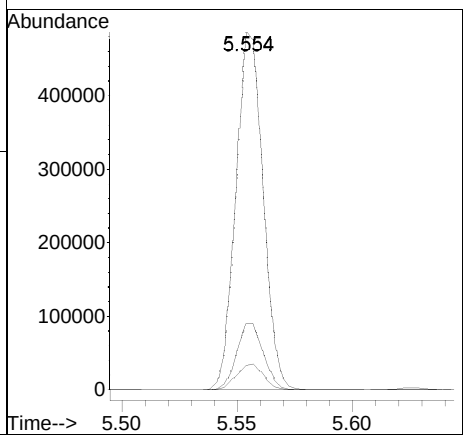


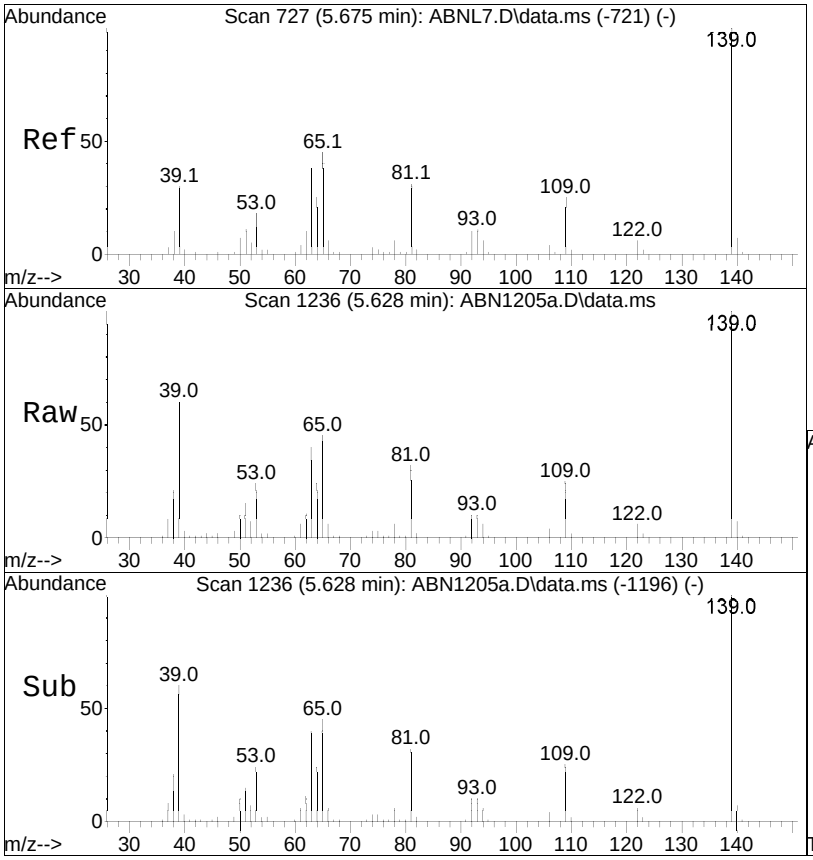


#21
Isophorone
Concen: 48.22 ug/ml
RT: 5.554 min Scan# 1212
Delta R.T. -0.003 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion: 82 Resp: 395034

Ion	Ratio	Lower	Upper
82	100		
138	18.4	13.6	20.4
95	7.3	5.1	7.7

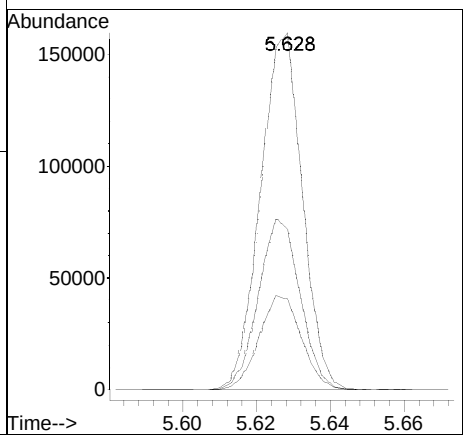


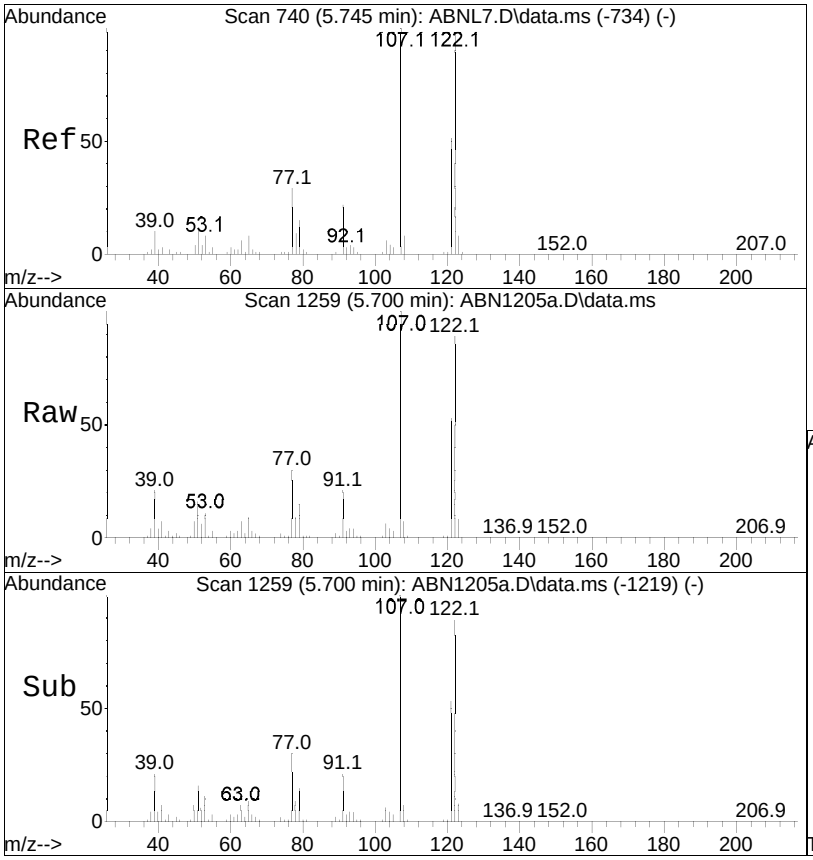


#22
2-Nitrophenol
Concen: 58.00 ug/ml
RT: 5.628 min Scan# 1236
Delta R.T. -0.000 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion:139 Resp: 125005

Ion	Ratio	Lower	Upper
139	100		
109	26.9	19.8	29.6
65	47.9	39.6	59.4

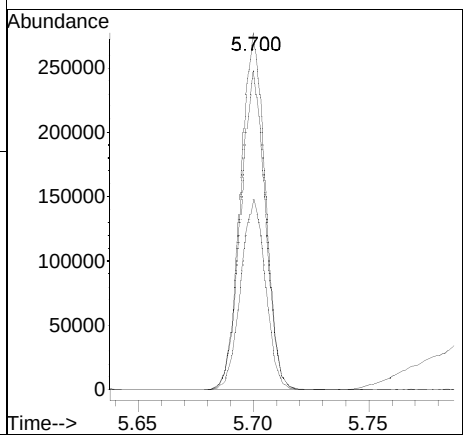


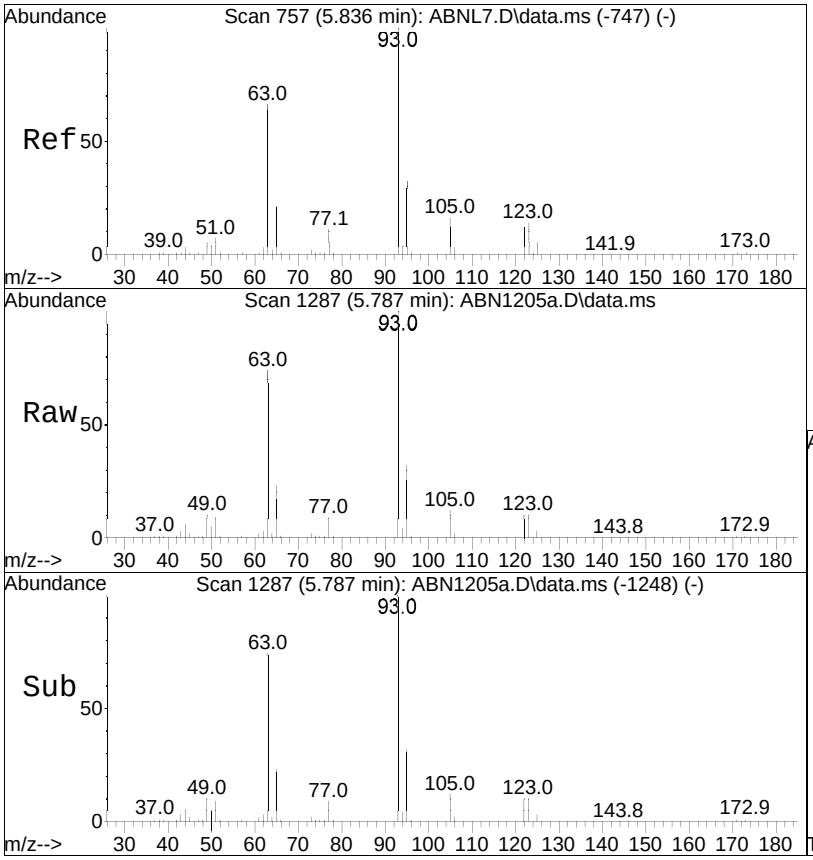


#23
2,4-Dimethylphenol
Concen: 52.65 ug/ml
RT: 5.700 min Scan# 1259
Delta R.T. -0.000 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion:107 Resp: 206223

Ion	Ratio	Lower	Upper
107	100		
121	53.4	43.0	64.4
122	88.7	71.8	107.8

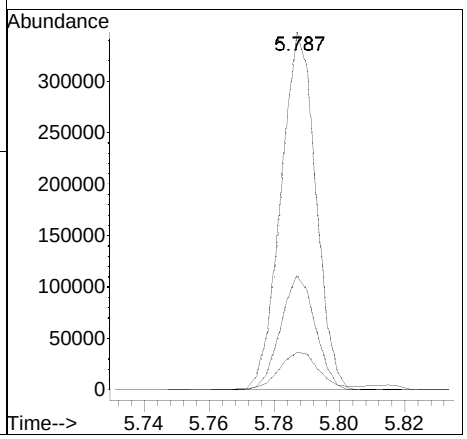


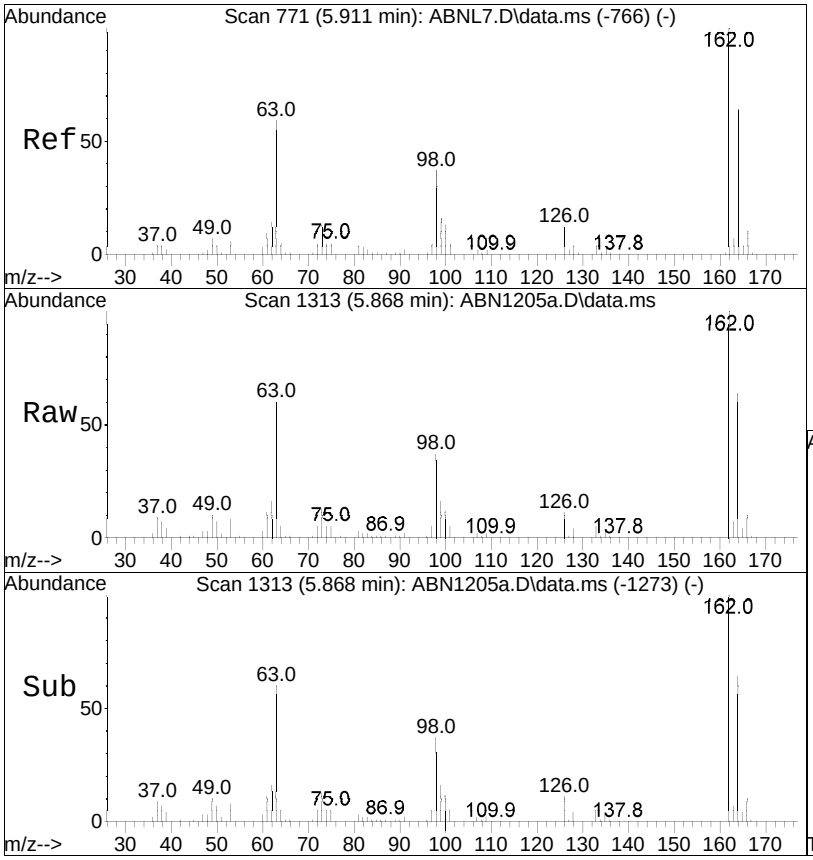


#24
Bis(2-chloroethoxy)methane
Concen: 48.47 ug/ml
RT: 5.787 min Scan# 1287
Delta R.T. -0.003 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion: 93 Resp: 256638

Ion	Ratio	Lower	Upper
93	100		
95	32.0	26.6	40.0
123	13.0	11.0	16.4

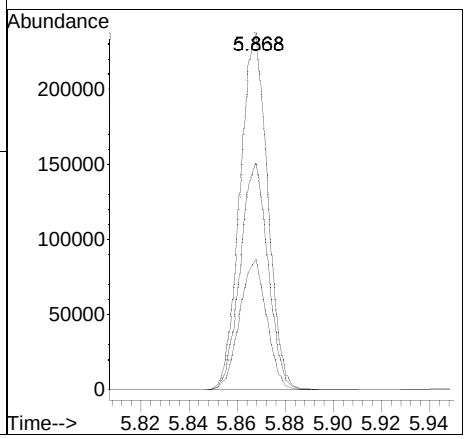


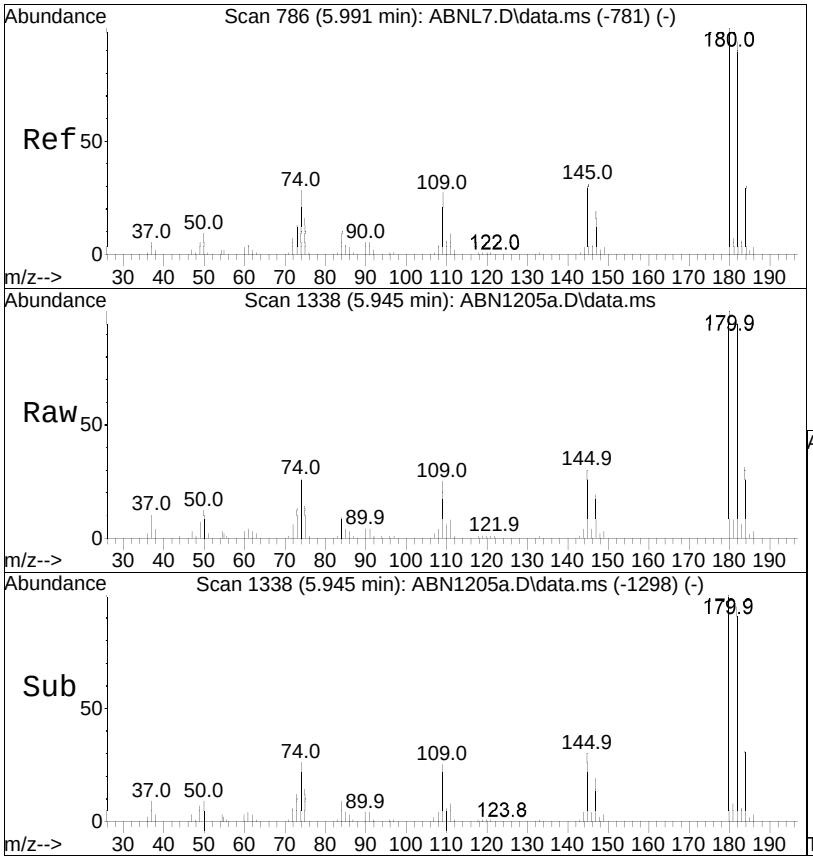


#25
2,4-Dichlorophenol
Concen: 51.21 ug/ml
RT: 5.868 min Scan# 1313
Delta R.T. -0.000 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion:162 Resp: 187173

Ion	Ratio	Lower	Upper
162	100		
164	64.2	51.6	77.4
98	36.3	29.4	44.2

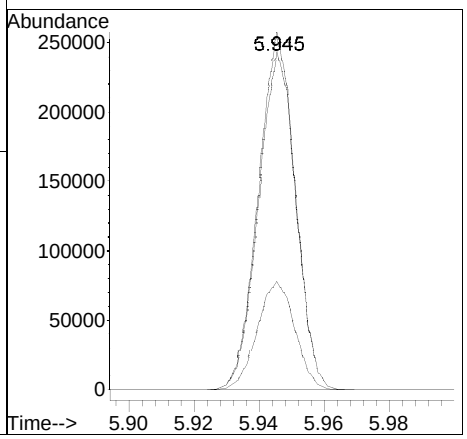


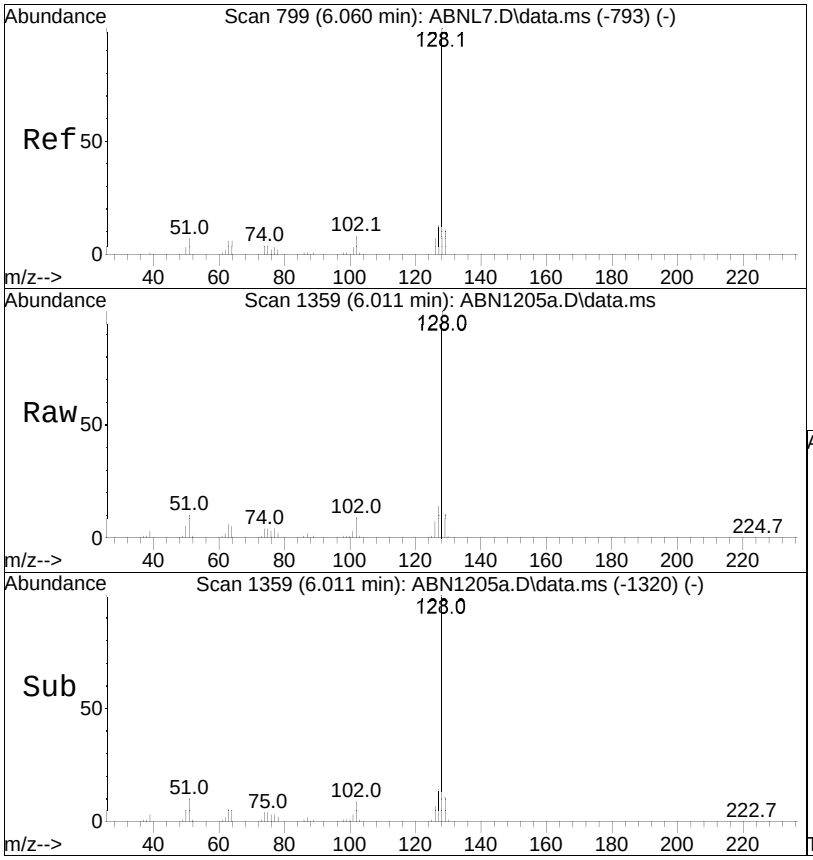


#26
1,2,4-Trichlorobenzene
Concen: 47.11 ug/ml
RT: 5.945 min Scan# 1338
Delta R.T. -0.000 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion:180 Resp: 200731

Ion	Ratio	Lower	Upper
180	100		
182	95.6	77.0	115.6
145	31.1	25.2	37.8

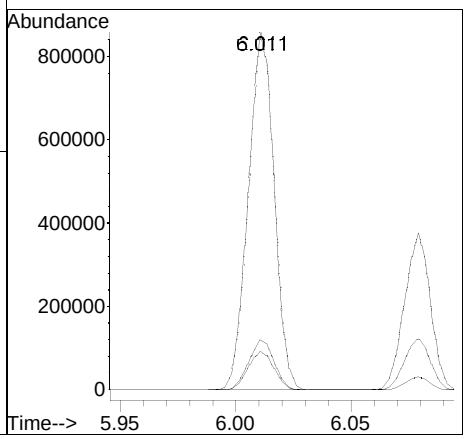


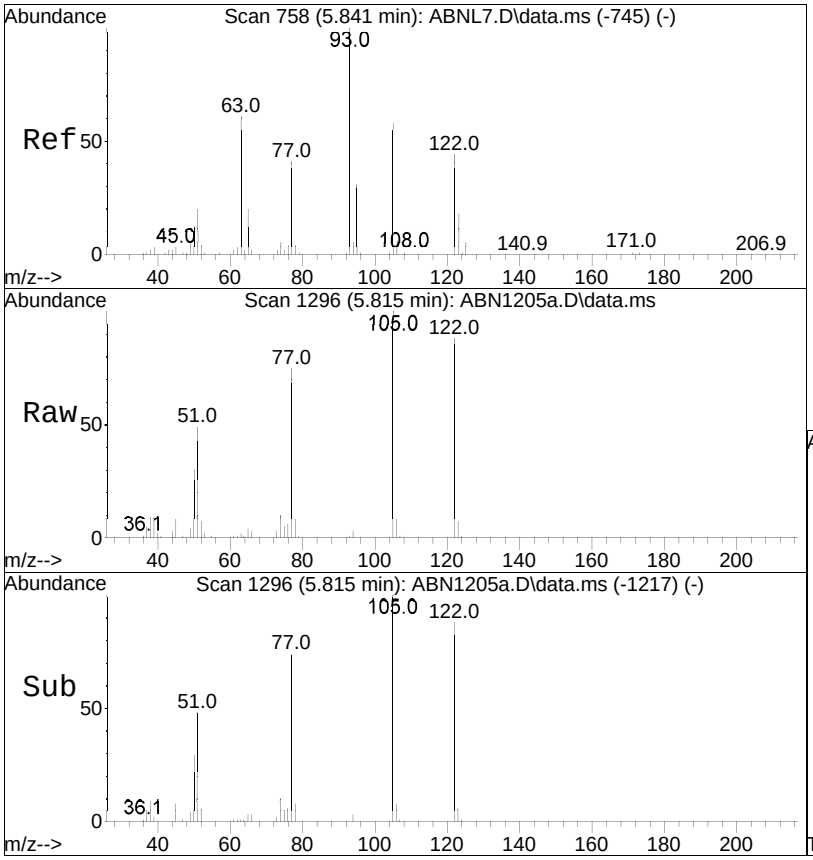


#35
Naphthalene
Concen: 48.21 ug/ml
RT: 6.011 min Scan# 1359
Delta R.T. -0.003 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion:128 Resp: 666622

Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.9	13.3
127	13.9	10.9	16.3

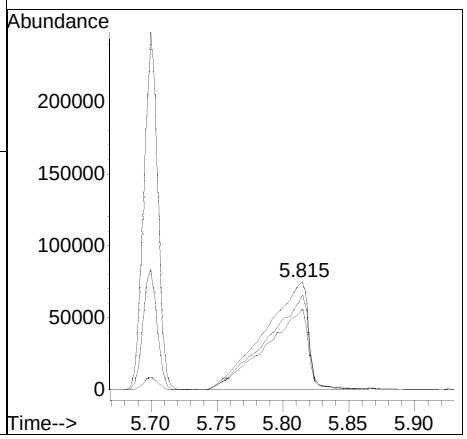


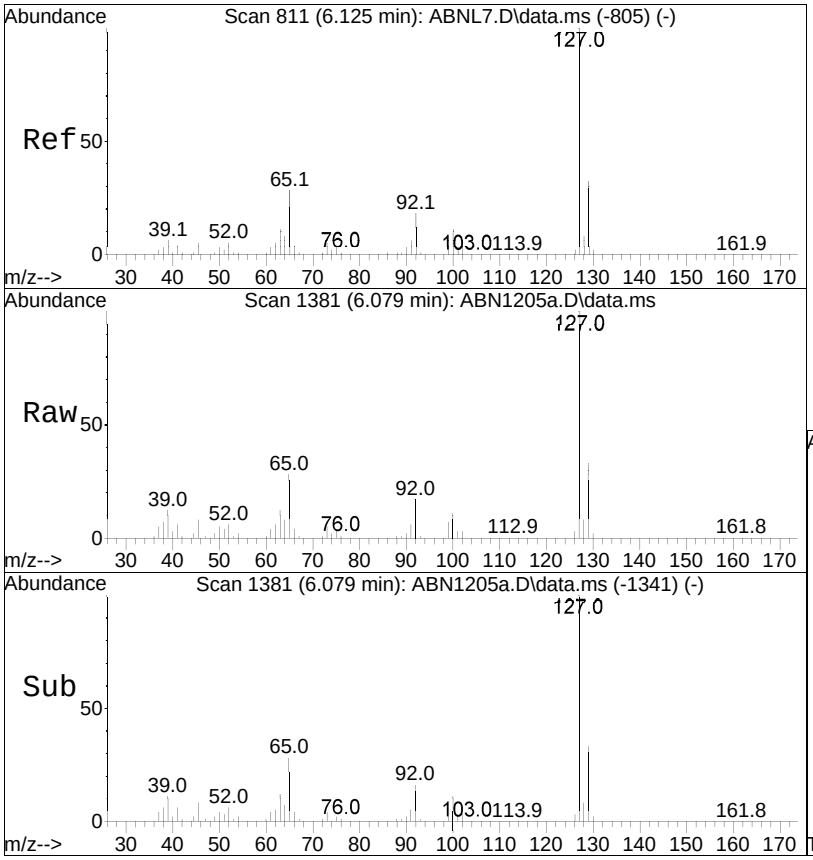


#36
Benzoic Acid
Concen: 50.84 ug/ml
RT: 5.815 min Scan# 1296
Delta R.T. -0.003 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion:105 Resp: 176186

Ion	Ratio	Lower	Upper
105	100		
122	82.7	67.0	100.4
77	73.2	58.8	88.2

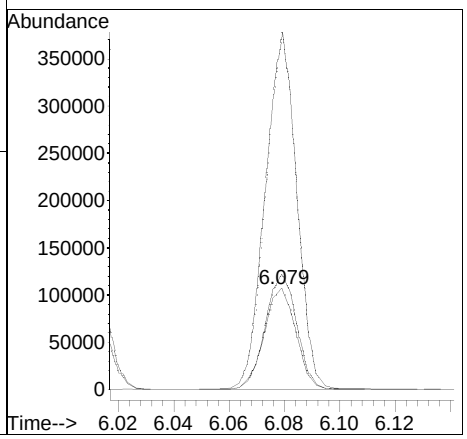


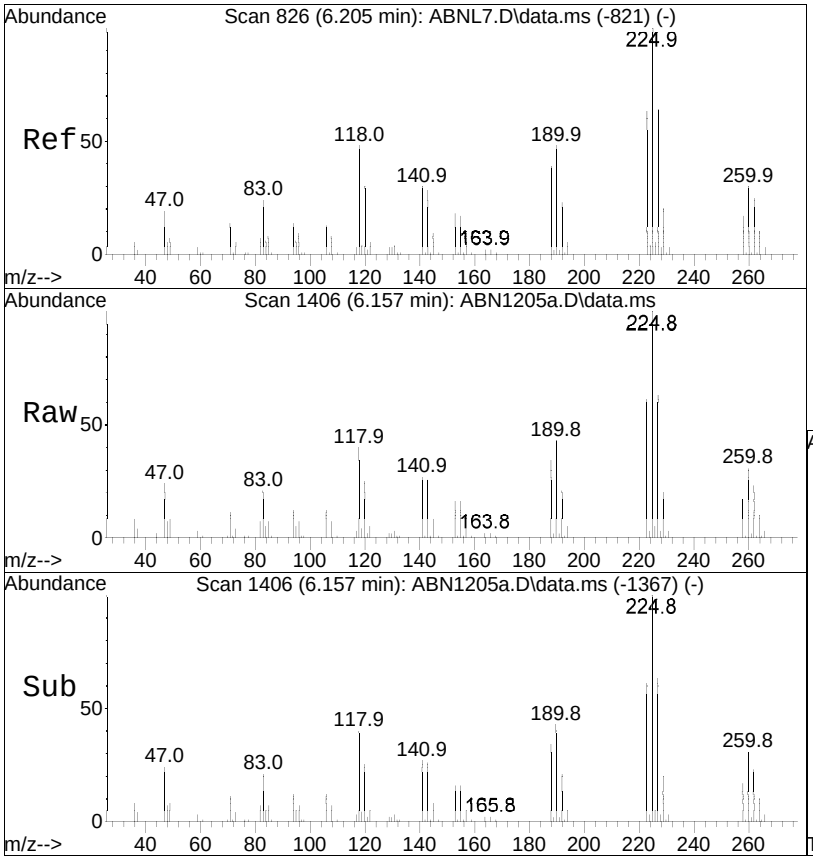


#37
4-Chloroaniline
Concen: 49.14 ug/ml
RT: 6.079 min Scan# 1381
Delta R.T. -0.000 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion: 65 Resp: 85328

Ion	Ratio	Lower	Upper
65	100		
127	344.9	274.4	411.6
129	112.7	88.2	132.4

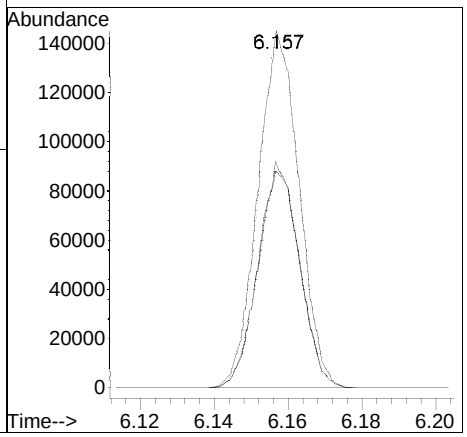


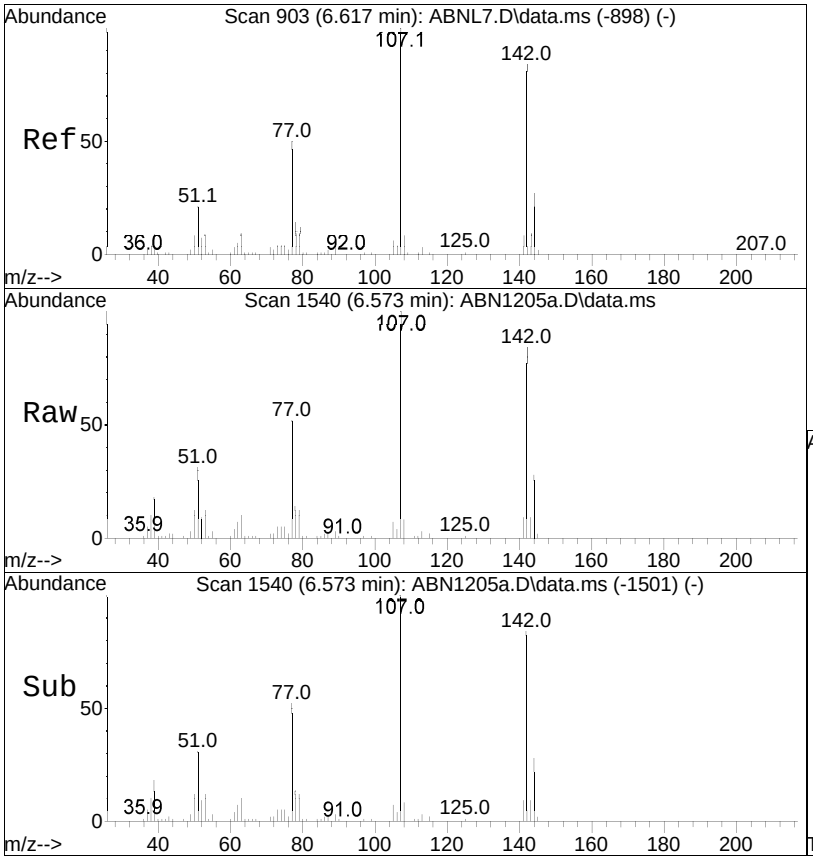


#38
Hexachlorobutadiene
Concen: 43.28 ug/ml
RT: 6.157 min Scan# 1406
Delta R.T. -0.003 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion:225 Resp: 111434

Ion	Ratio	Lower	Upper
225	100		
223	63.1	49.3	73.9
227	62.6	51.1	76.7

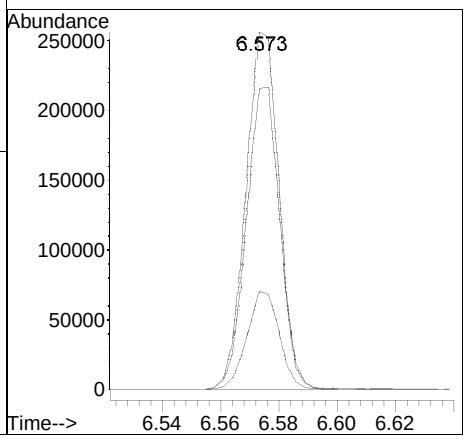


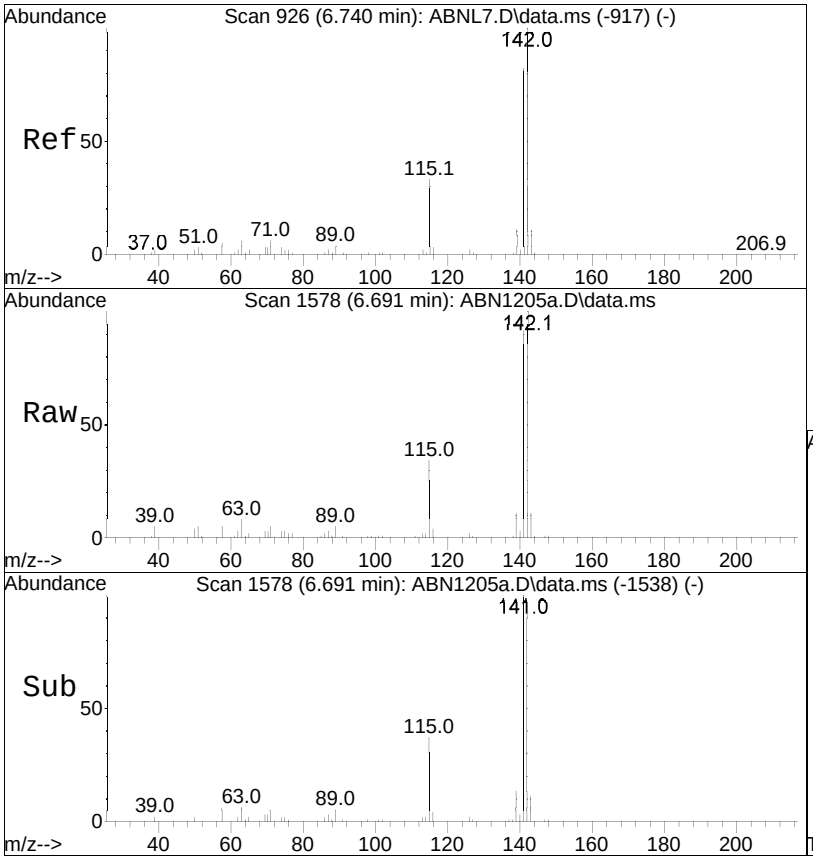


#39
p-Chloro-m-cresol
Concen: 54.32 ug/ml
RT: 6.573 min Scan# 1540
Delta R.T. -0.003 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion:107 Resp: 201477

Ion	Ratio	Lower	Upper
107	100		
144	27.0	21.5	32.3
142	84.9	66.8	100.2

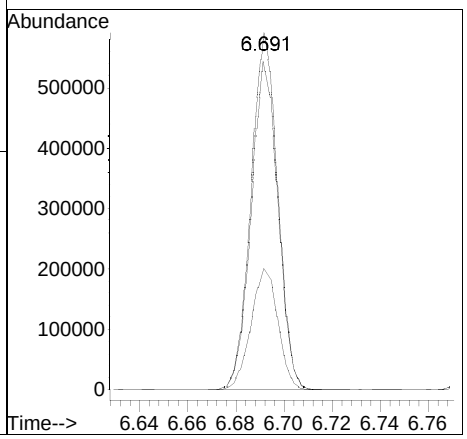


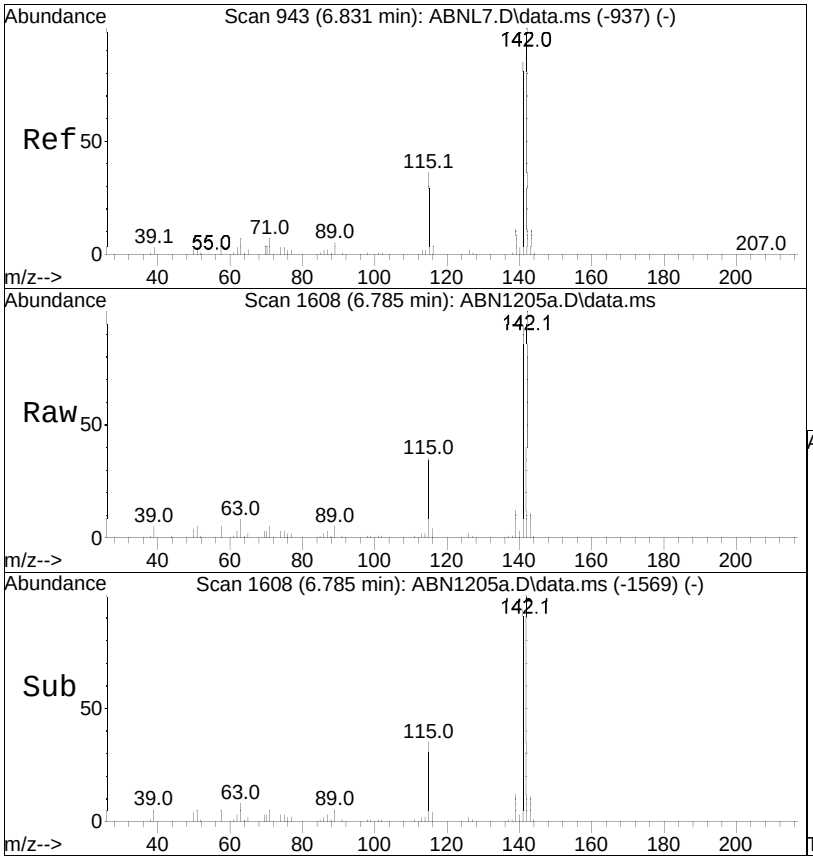


#40
2-Methylnaphthalene
Concen: 49.68 ug/ml
RT: 6.691 min Scan# 1578
Delta R.T. -0.000 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion:142 Resp: 456941

Ion	Ratio	Lower	Upper
142	100		
141	92.1	73.0	109.6
115	34.3	25.4	38.2

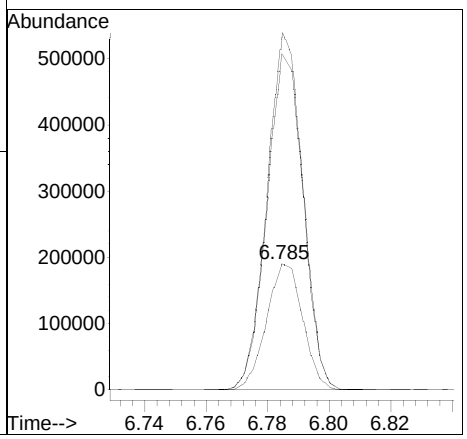


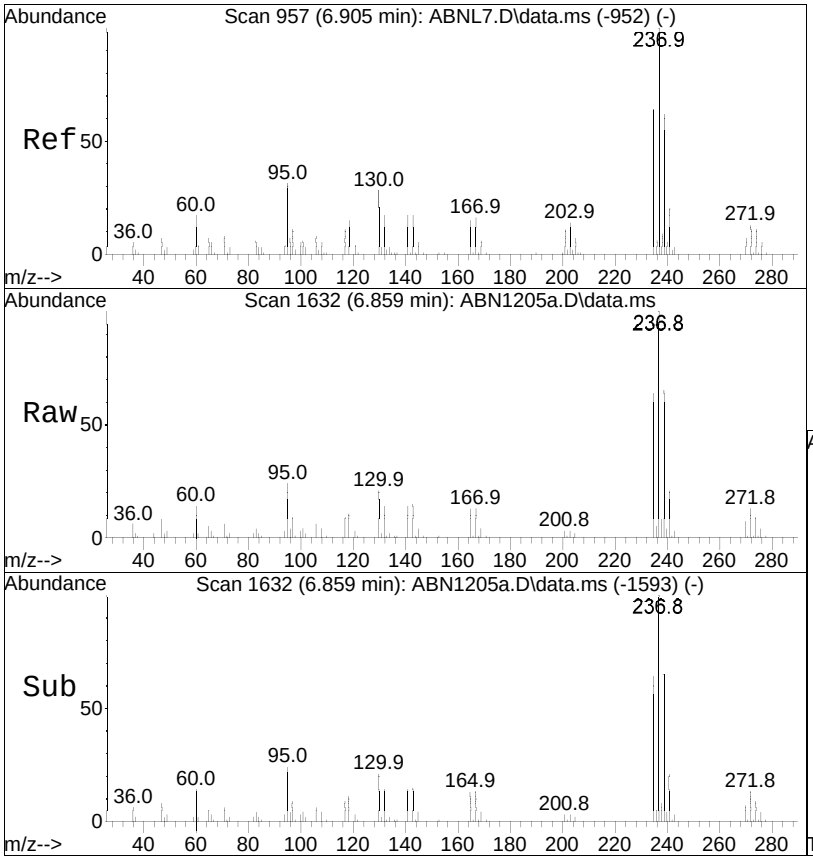


#41
1-Methylnaphthalene
Concen: 48.21 ug/ml
RT: 6.785 min Scan# 1608
Delta R.T. -0.003 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion:115 Resp: 156548

Ion	Ratio	Lower	Upper
115	100		
141	264.9	226.0	339.0
142	278.5	237.6	356.4

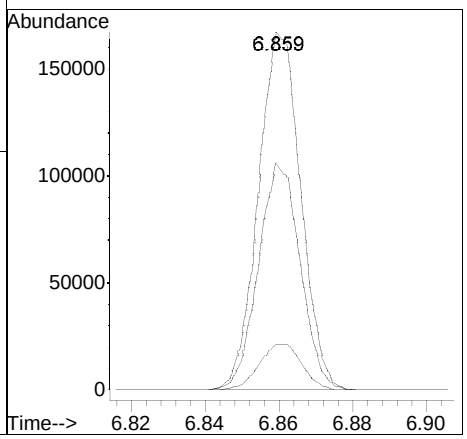


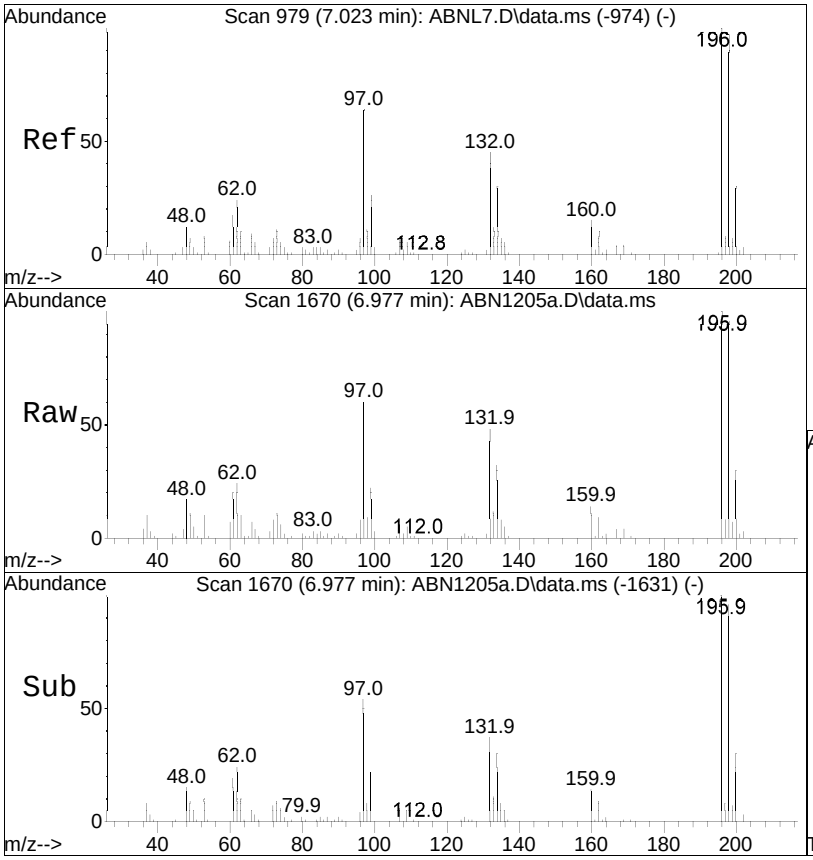


#42
Hexachlorocyclopentadiene
Concen: 43.22 ug/ml
RT: 6.859 min Scan# 1632
Delta R.T. -0.003 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion:237 Resp: 131925

Ion	Ratio	Lower	Upper
237	100		
235	62.5	49.5	74.3
272	13.0	10.2	15.4

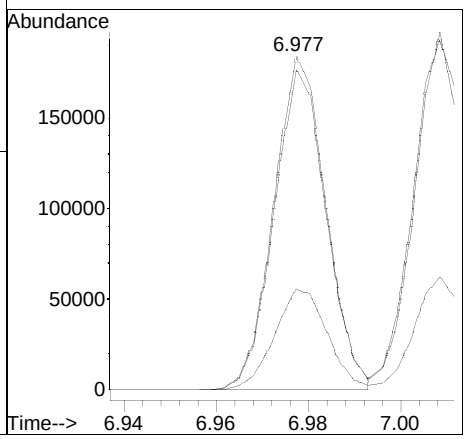


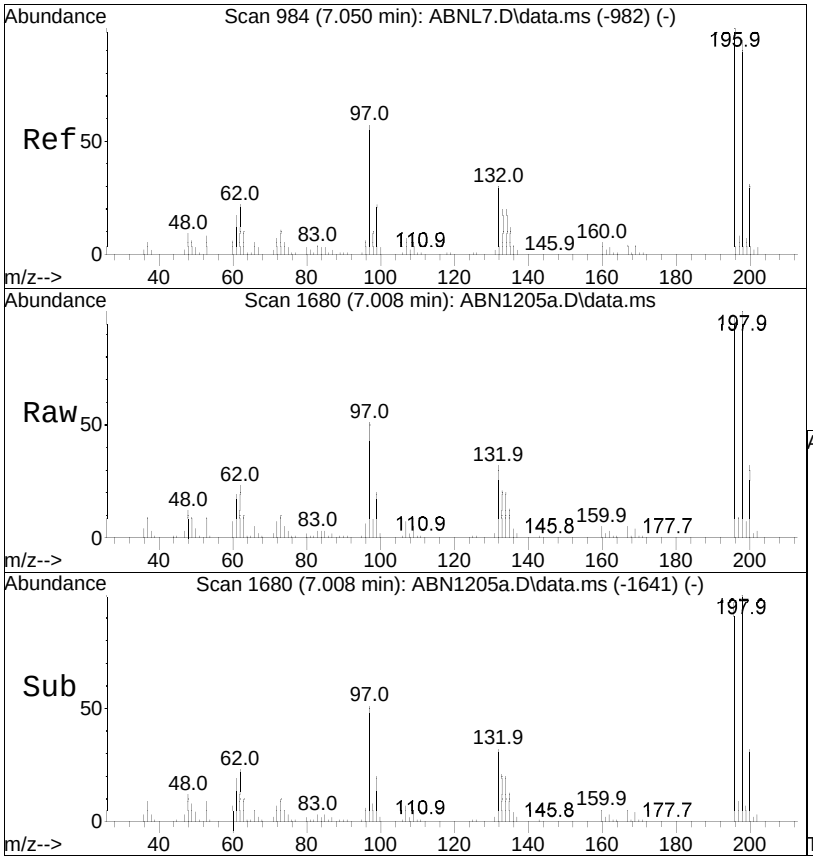


#43
2,4,6-Trichlorophenol
Concen: 53.99 ug/ml
RT: 6.977 min Scan# 1670
Delta R.T. -0.003 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion:196 Resp: 144421

Ion	Ratio	Lower	Upper
196	100		
198	95.7	76.4	114.6
200	30.6	24.4	36.6

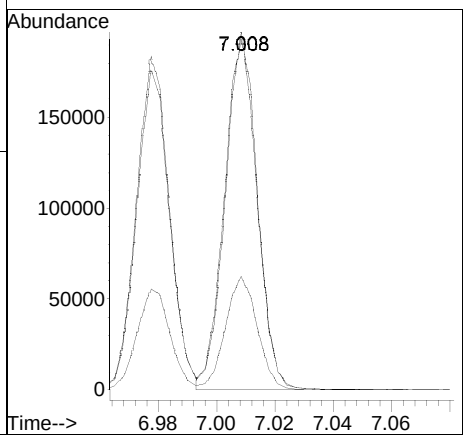


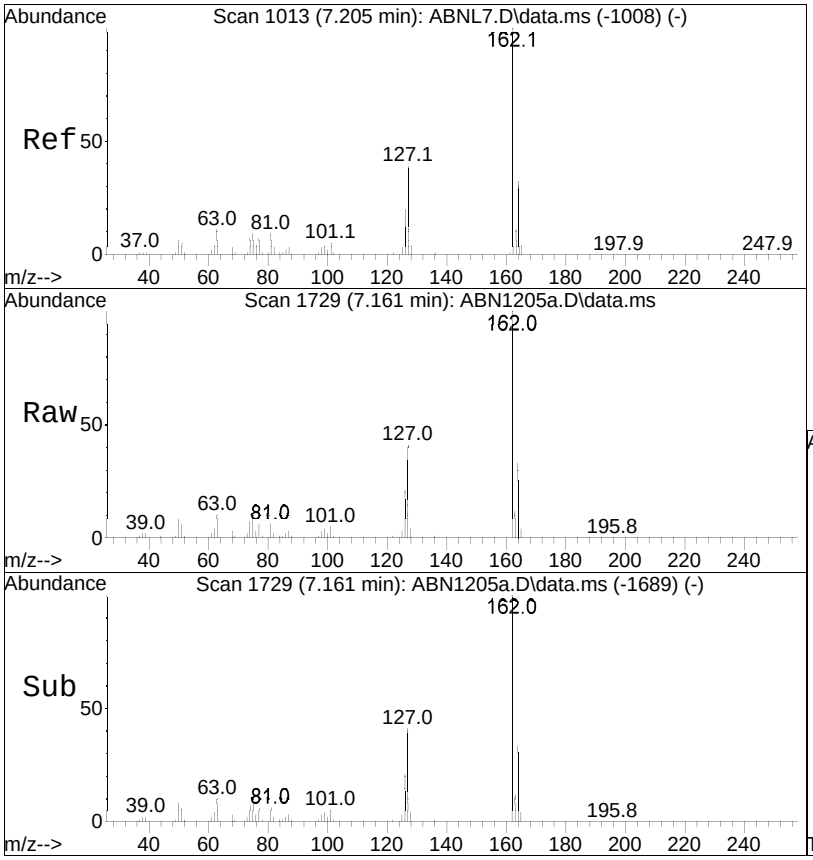


#44
2,4,5-Trichlorophenol
Concen: 53.26 ug/ml
RT: 7.008 min Scan# 1680
Delta R.T. -0.003 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion:196 Resp: 153012

Ion	Ratio	Lower	Upper
196	100		
200	31.1	25.2	37.8
198	96.2	77.7	116.5

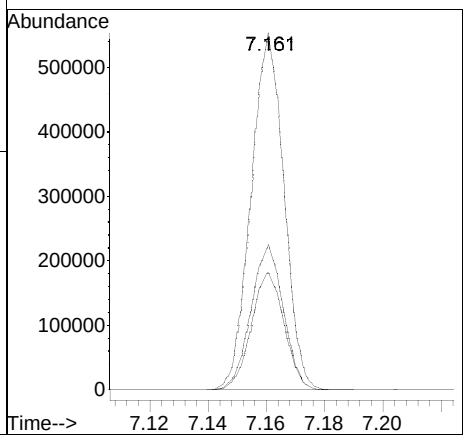


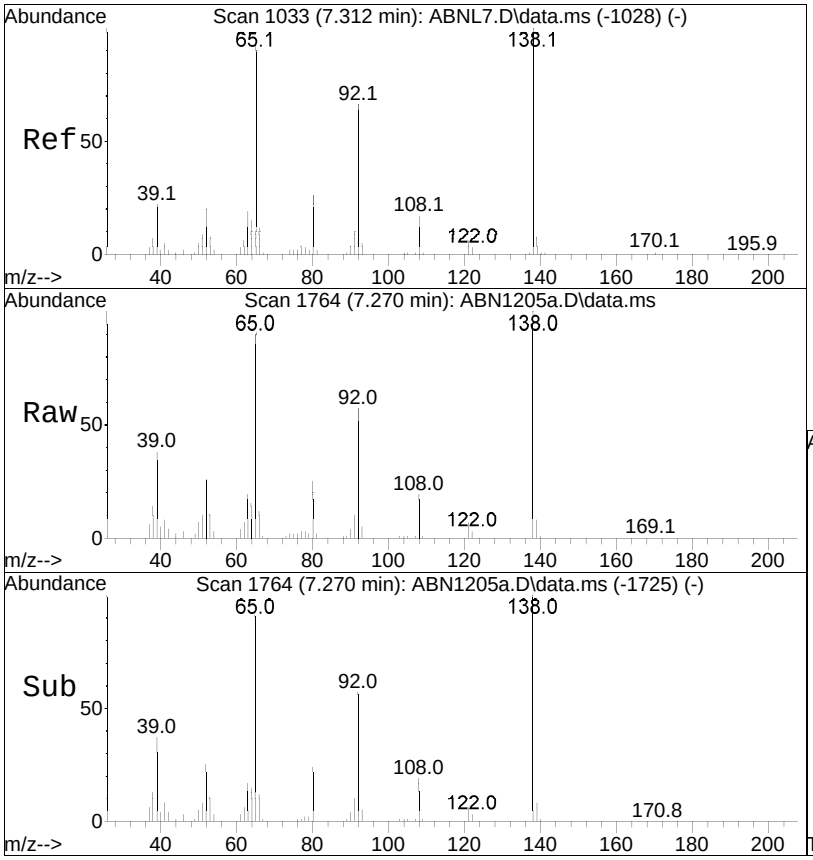


#46
2-Chloronaphthalene
Concen: 49.63 ug/ml
RT: 7.161 min Scan# 1729
Delta R.T. -0.000 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion:162 Resp: 429312

Ion	Ratio	Lower	Upper
162	100		
127	40.2	31.7	47.5
164	33.0	26.2	39.4

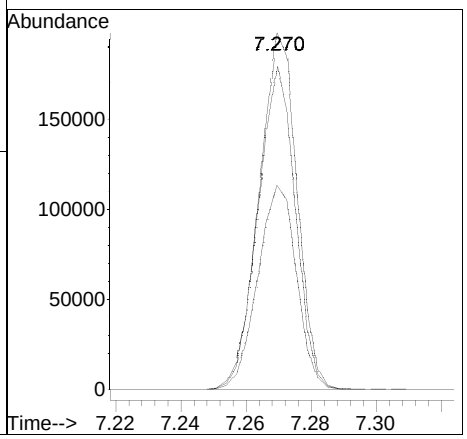


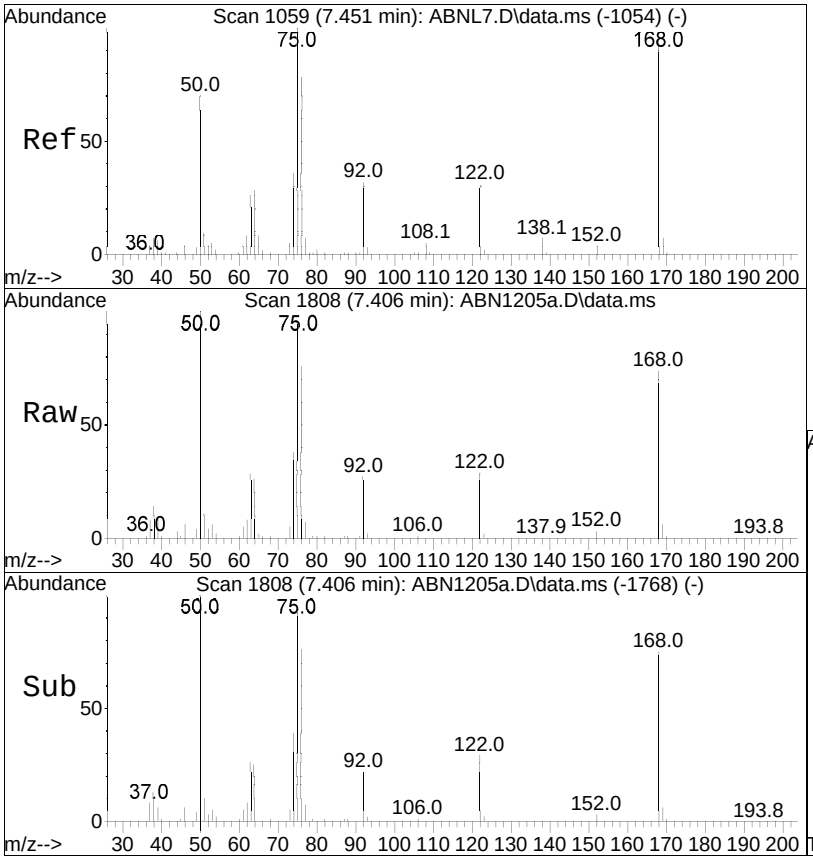


#47
2-Nitroaniline
Concen: 58.17 ug/ml
RT: 7.270 min Scan# 1764
Delta R.T. -0.003 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion:138 Resp: 159107

Ion	Ratio	Lower	Upper
138	100		
92	58.3	48.0	72.0
65	89.3	72.8	109.2

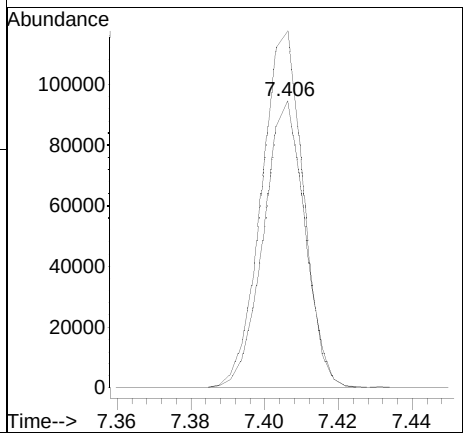


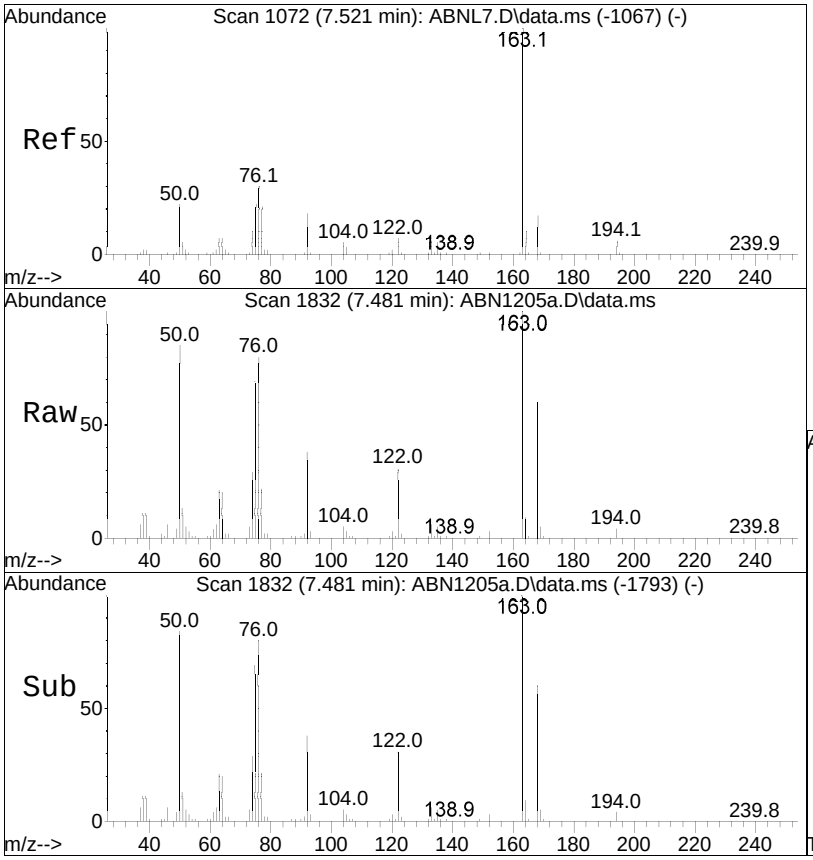


#48
1,4-Dinitrobenzene
Concen: 58.72 ug/ml
RT: 7.406 min Scan# 1808
Delta R.T. -0.000 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion:168 Resp: 73669

Ion	Ratio	Lower	Upper
168	100		
75	125.4	107.2	160.8

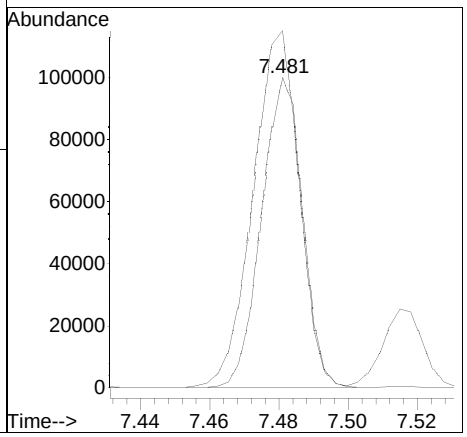


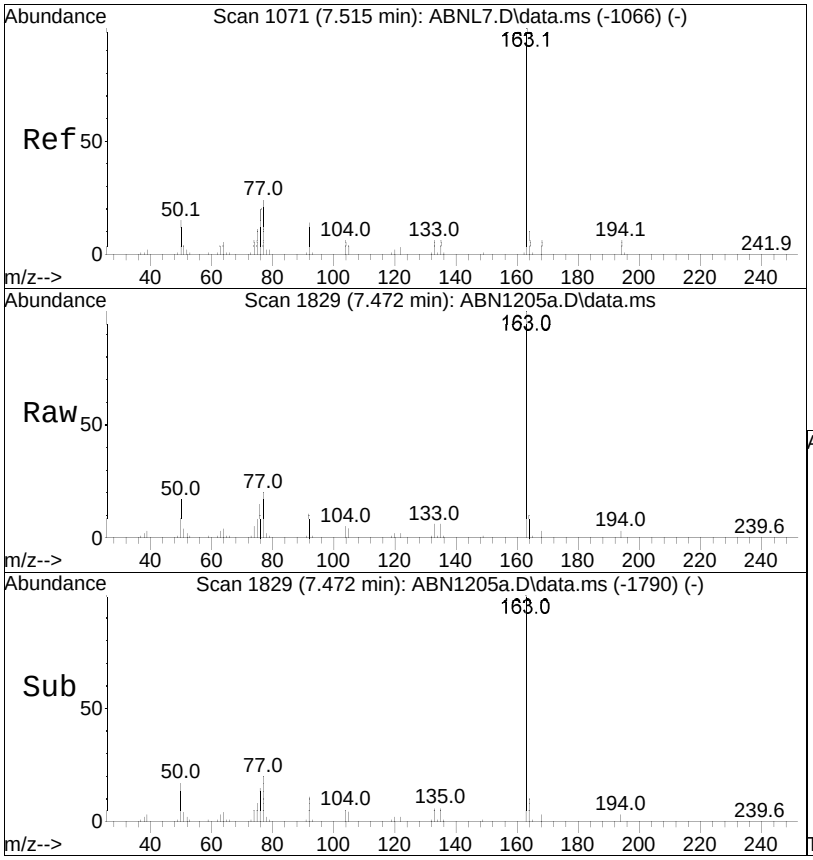


#49
1,3-Dinitrobenzene
Concen: 55.83 ug/ml
RT: 7.481 min Scan# 1832
Delta R.T. -0.003 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion:168 Resp: 82121

Ion	Ratio	Lower	Upper
168	100		
75	129.3	112.2	168.2

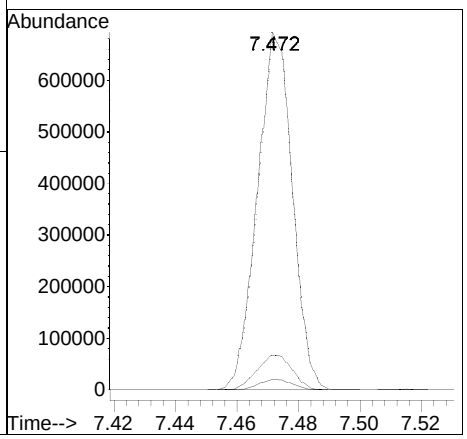


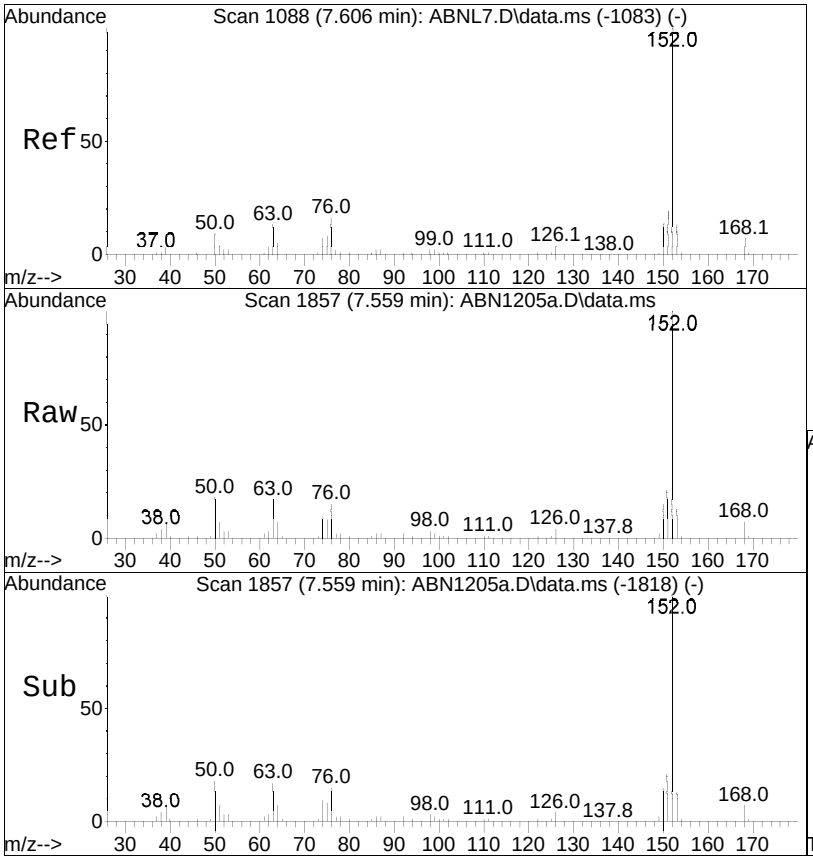


#50
Dimethyl phthalate
Concen: 52.97 ug/ml
RT: 7.472 min Scan# 1829
Delta R.T. -0.003 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion:163 Resp: 542395

Ion	Ratio	Lower	Upper
163	100		
194	2.9	2.4	3.6
164	10.1	8.1	12.1

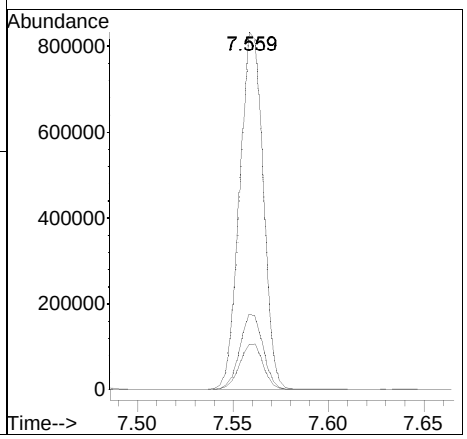


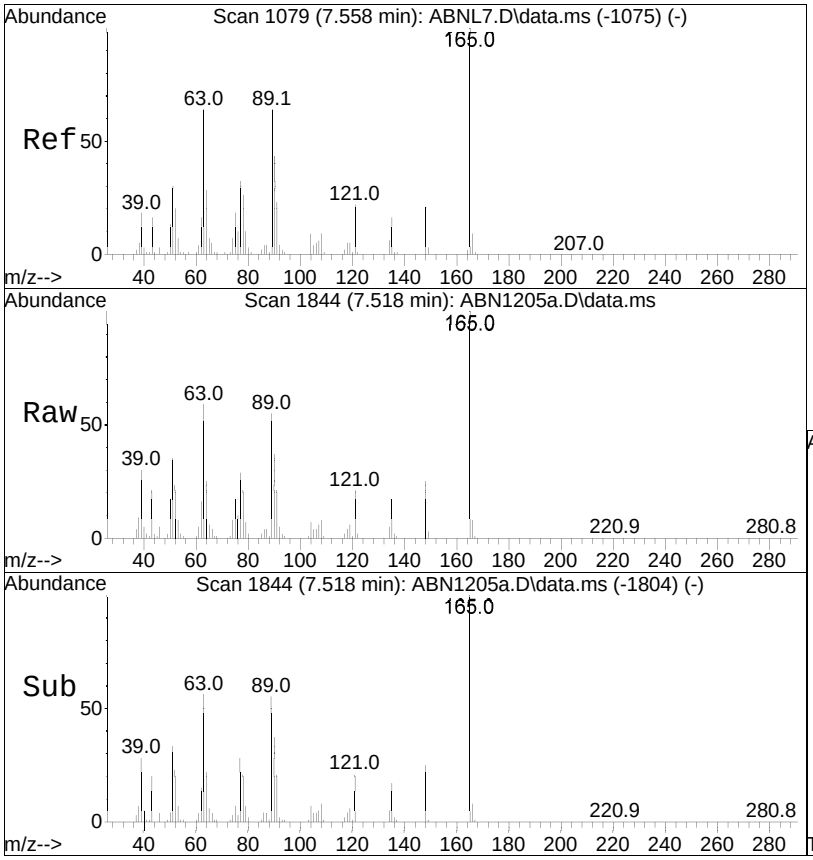


#51
Acenaphthylene
Concen: 50.69 ug/ml
RT: 7.559 min Scan# 1857
Delta R.T. -0.003 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion:152 Resp: 705867

Ion	Ratio	Lower	Upper
152	100		
151	21.0	16.6	24.8
153	12.9	10.5	15.7

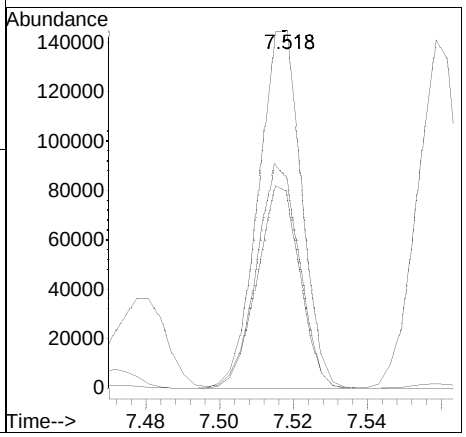


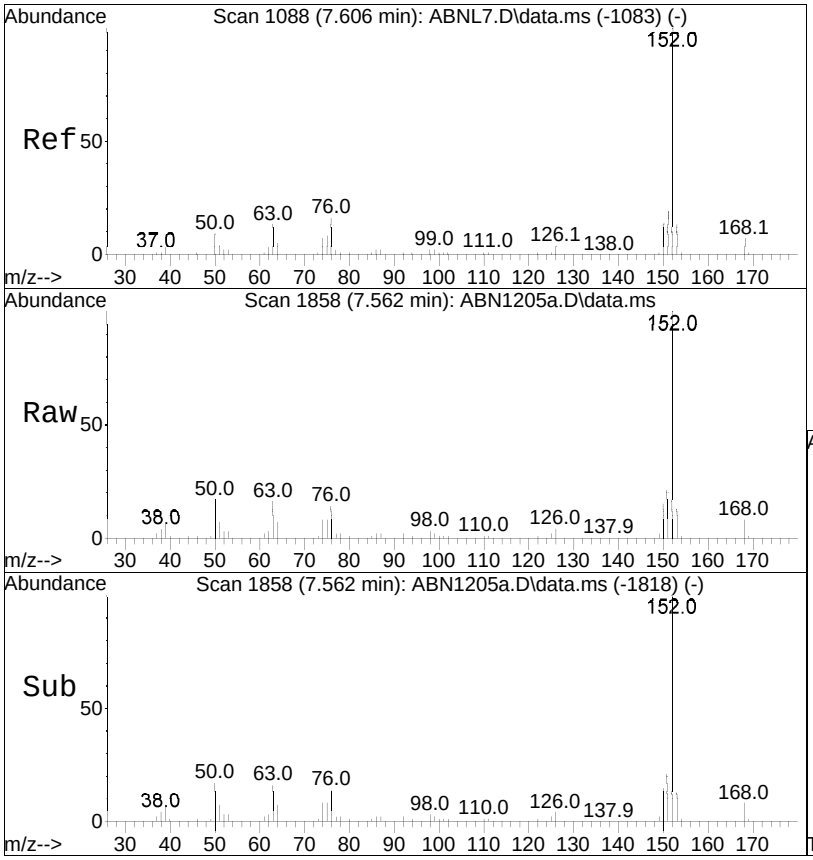


#52
2,6-Dinitrotoluene
Concen: 55.50 ug/ml
RT: 7.518 min Scan# 1844
Delta R.T. -0.000 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion:165 Resp: 118156

Ion	Ratio	Lower	Upper
165	100		
89	55.8	44.7	67.1
63	61.9	48.2	72.4

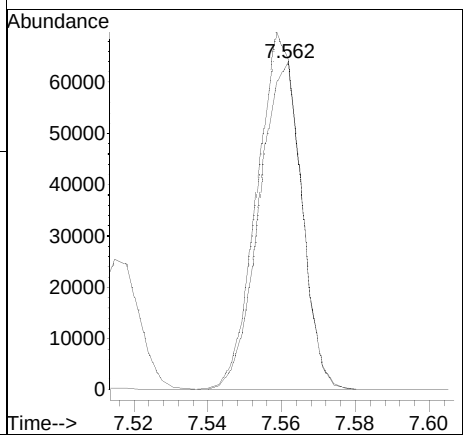


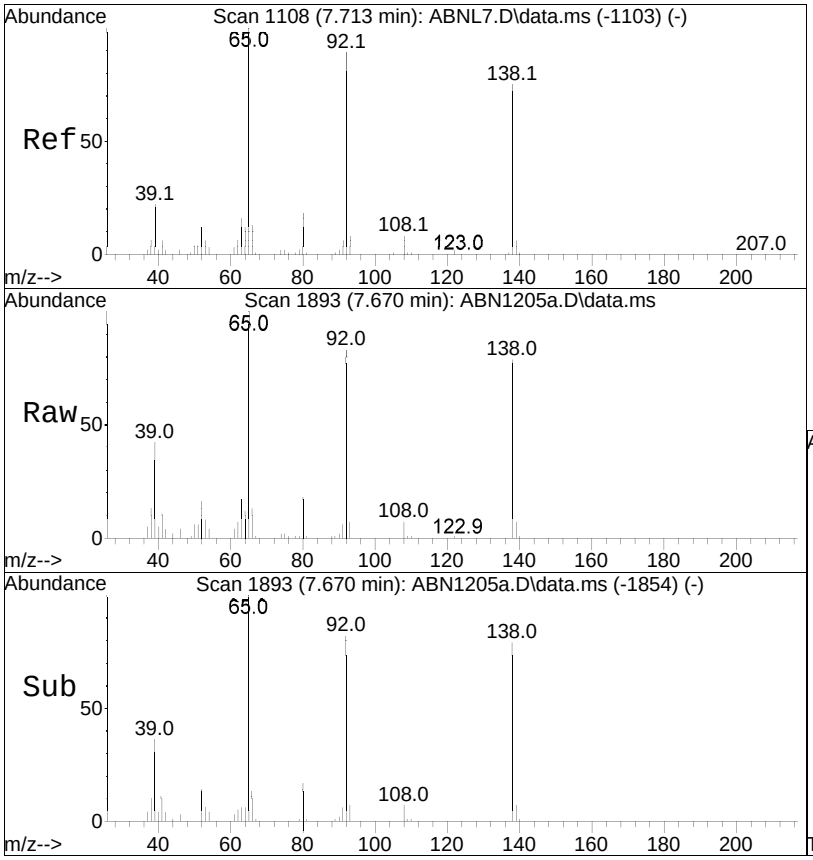


#53
1,2-Dinitrobenzene
Concen: 53.84 ug/ml
RT: 7.562 min Scan# 1858
Delta R.T. -0.000 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion:168 Resp: 51427

Ion	Ratio	Lower	Upper
168	100		
75	110.2	104.8	157.2

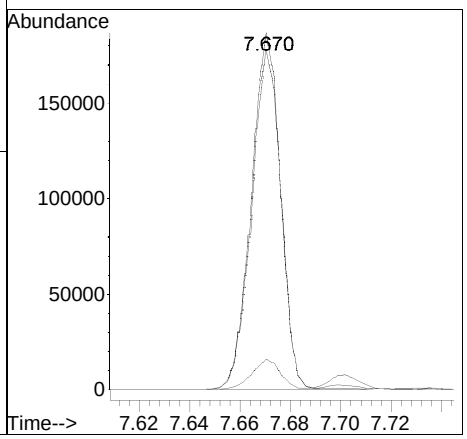


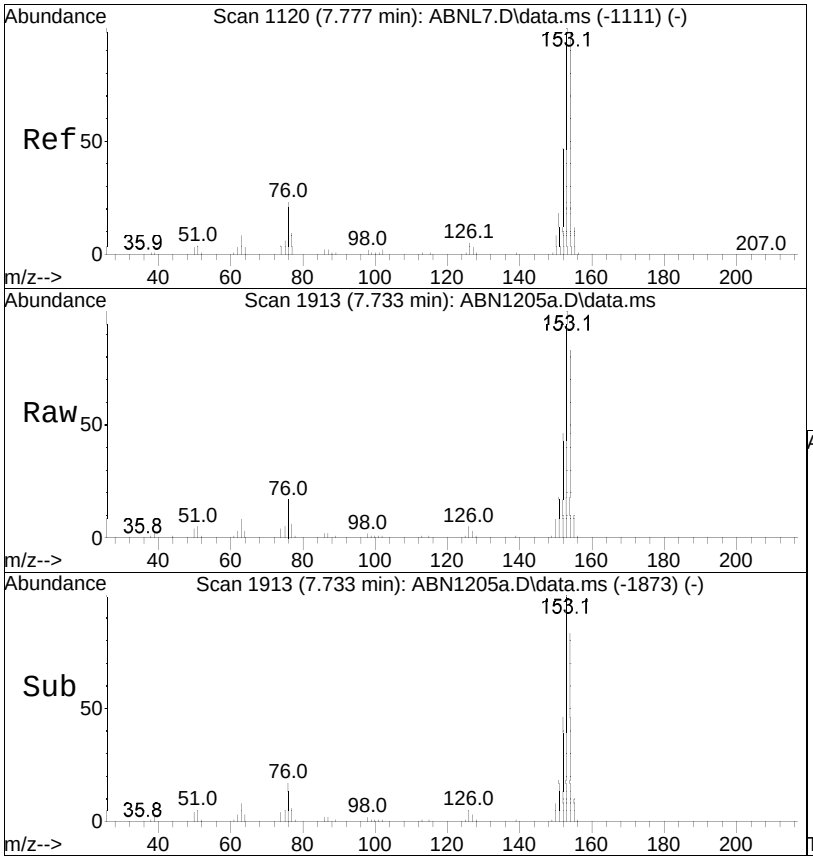


#63
3-Nitroaniline
Concen: 52.42 ug/ml
RT: 7.670 min Scan# 1893
Delta R.T. -0.003 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion:138 Resp: 142309

Ion	Ratio	Lower	Upper
138	100		
92	104.0	86.4	129.6
108	8.8	9.4	14.0#

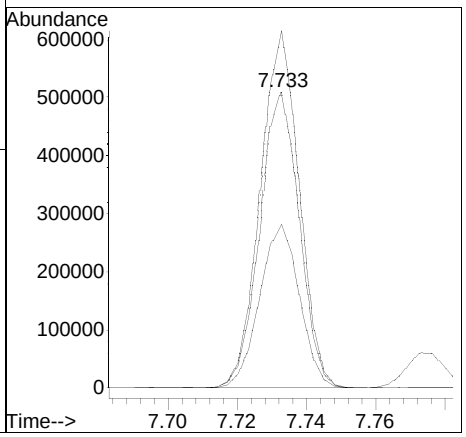


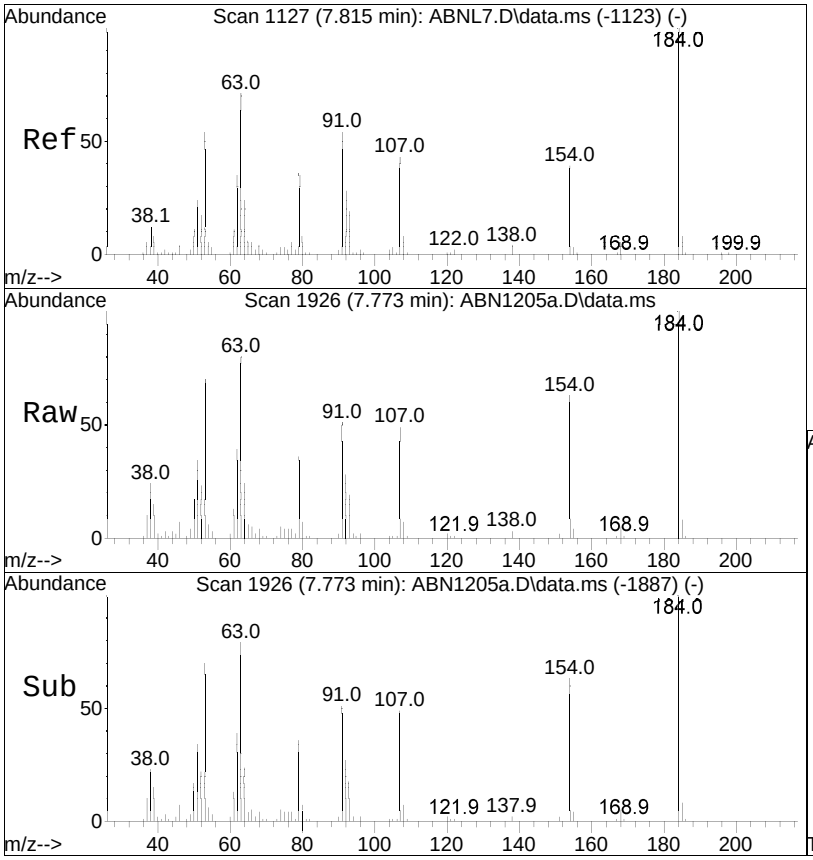


#64
Acenaphthene
Concen: 44.82 ug/ml
RT: 7.733 min Scan# 1913
Delta R.T. -0.000 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion:154 Resp: 402924

Ion	Ratio	Lower	Upper
154	100		
153	119.1	94.2	141.2
152	56.1	44.1	66.1

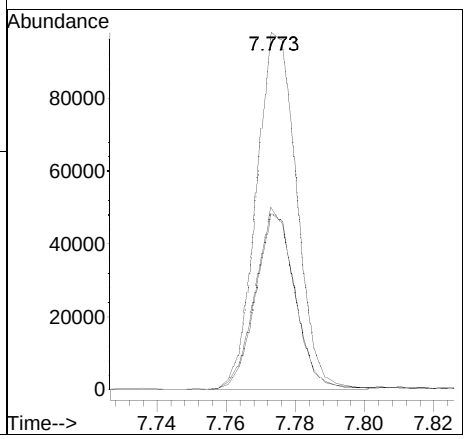


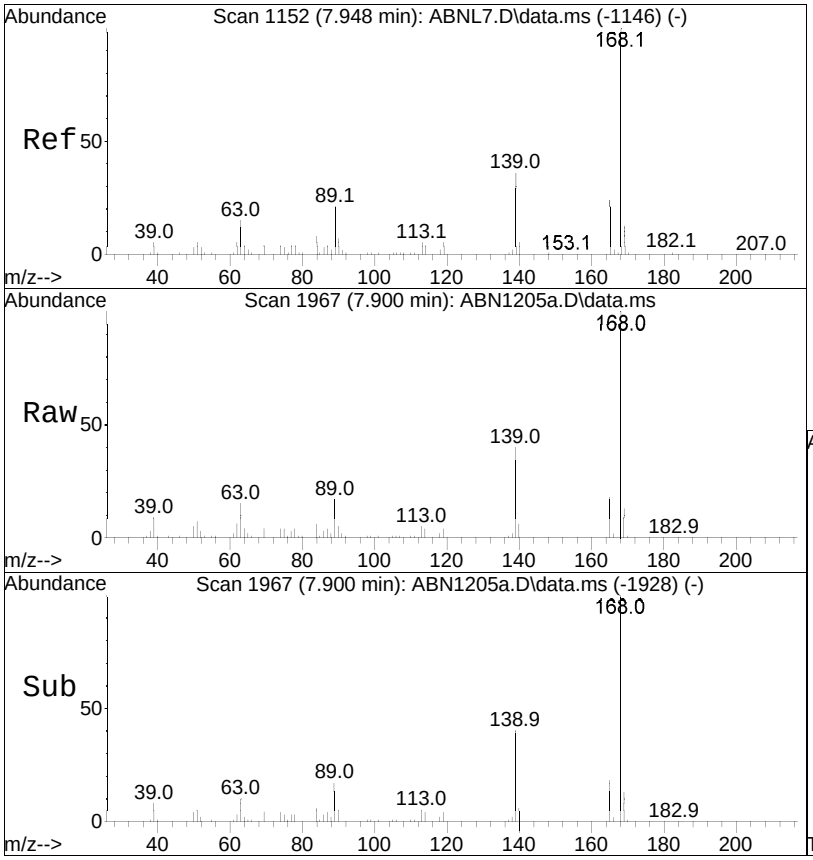


#65
2,4-Dinitrophenol
Concen: 55.47 ug/ml
RT: 7.773 min Scan# 1926
Delta R.T. -0.003 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion:184 Resp: 79099

Ion	Ratio	Lower	Upper
184	100		
107	48.5	37.3	55.9
91	50.0	43.8	65.6

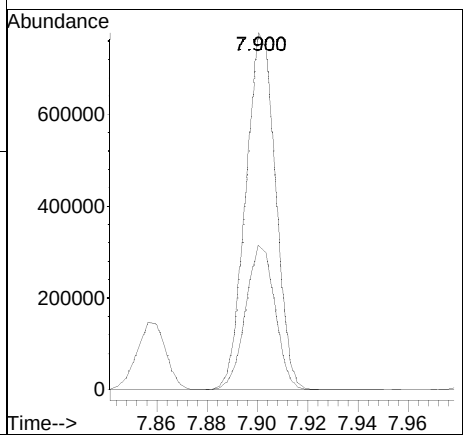


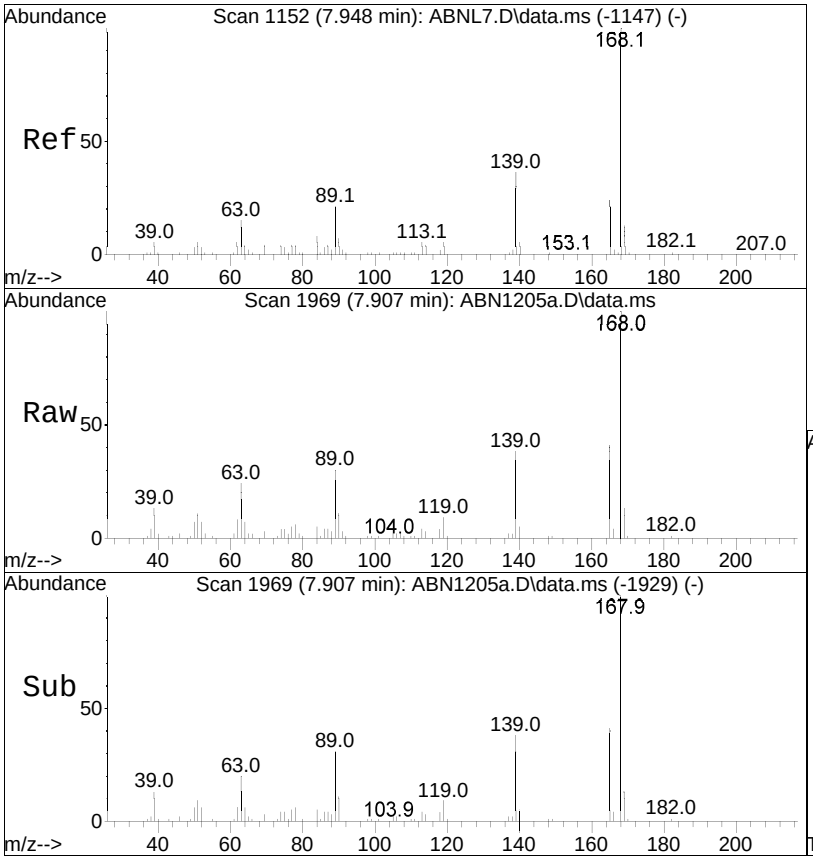


#66
Dibenzofuran
Concen: 45.11 ug/ml
RT: 7.900 min Scan# 1967
Delta R.T. -0.003 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion:168 Resp: 636225

Ion	Ratio	Lower	Upper
168	100		
139	40.0	30.4	45.6

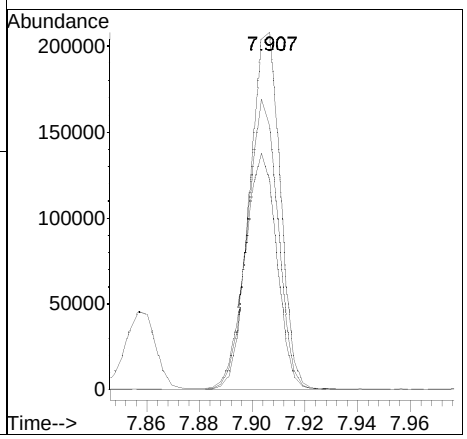


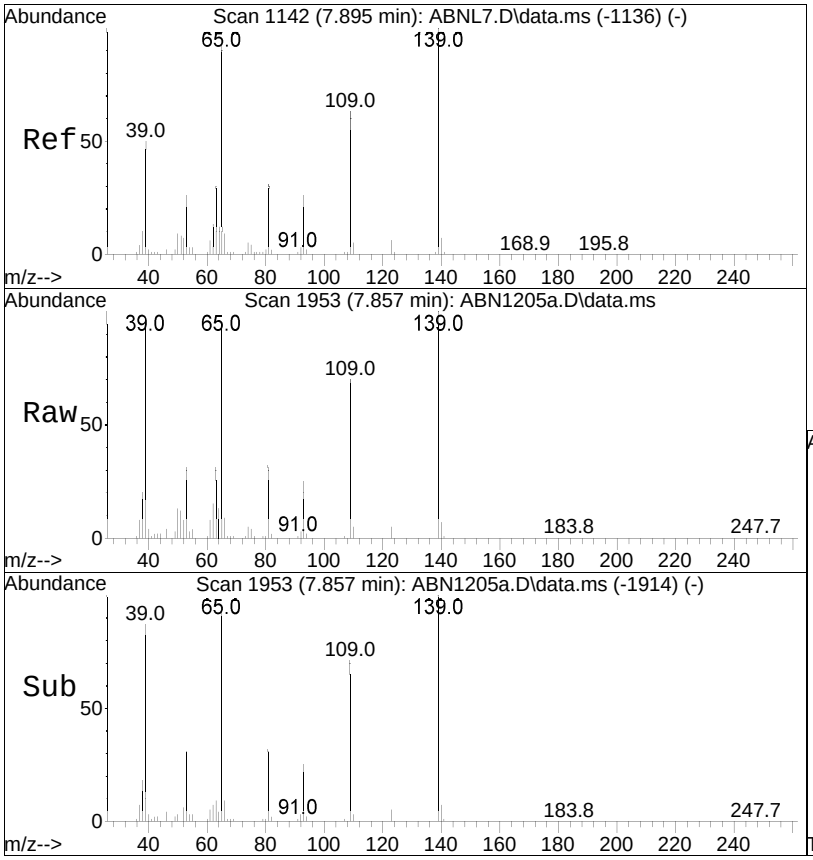


#67
2,4-Dinitrotoluene
Concen: 52.95 ug/ml
RT: 7.907 min Scan# 1969
Delta R.T. -0.000 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion:165 Resp: 167411

Ion	Ratio	Lower	Upper
165	100		
89	81.5	69.8	104.8
63	69.1	59.2	88.8

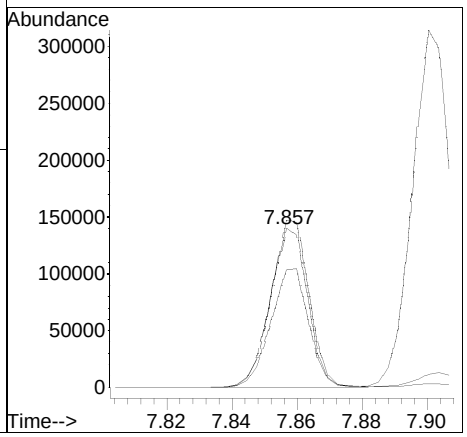


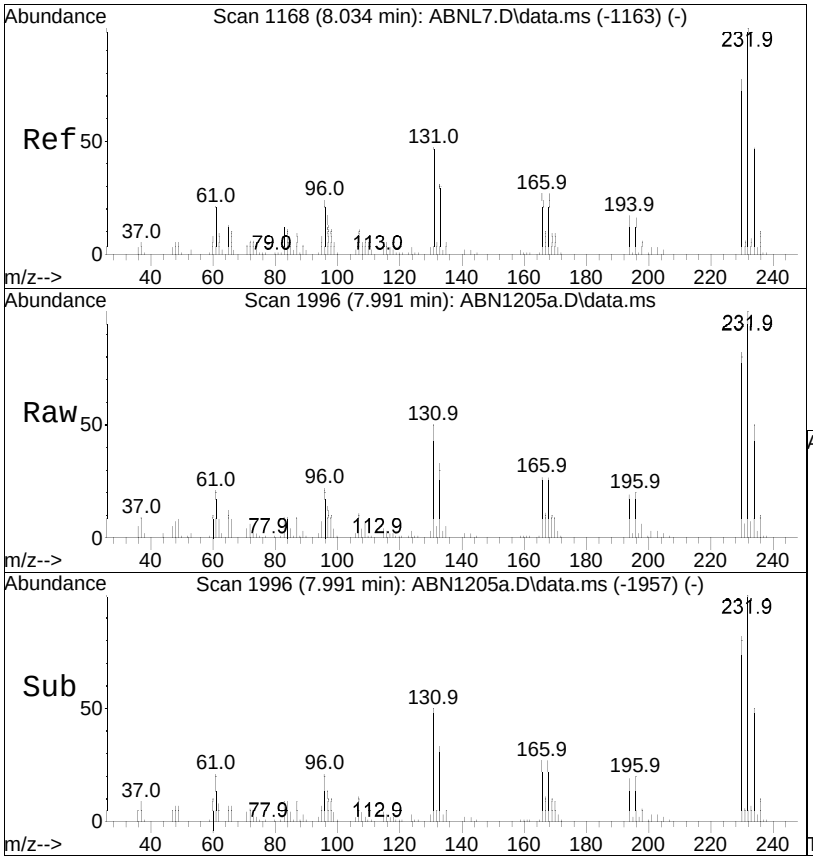


#68
4-Nitrophenol
Concen: 49.69 ug/ml
RT: 7.857 min Scan# 1953
Delta R.T. -0.003 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion: 65 Resp: 112228

Ion	Ratio	Lower	Upper
65	100		
109	75.5	52.8	79.2
139	106.8	84.1	126.1

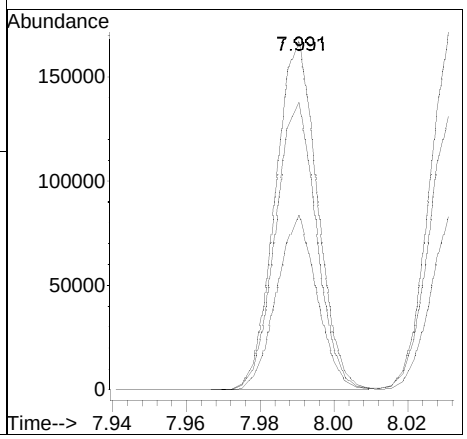


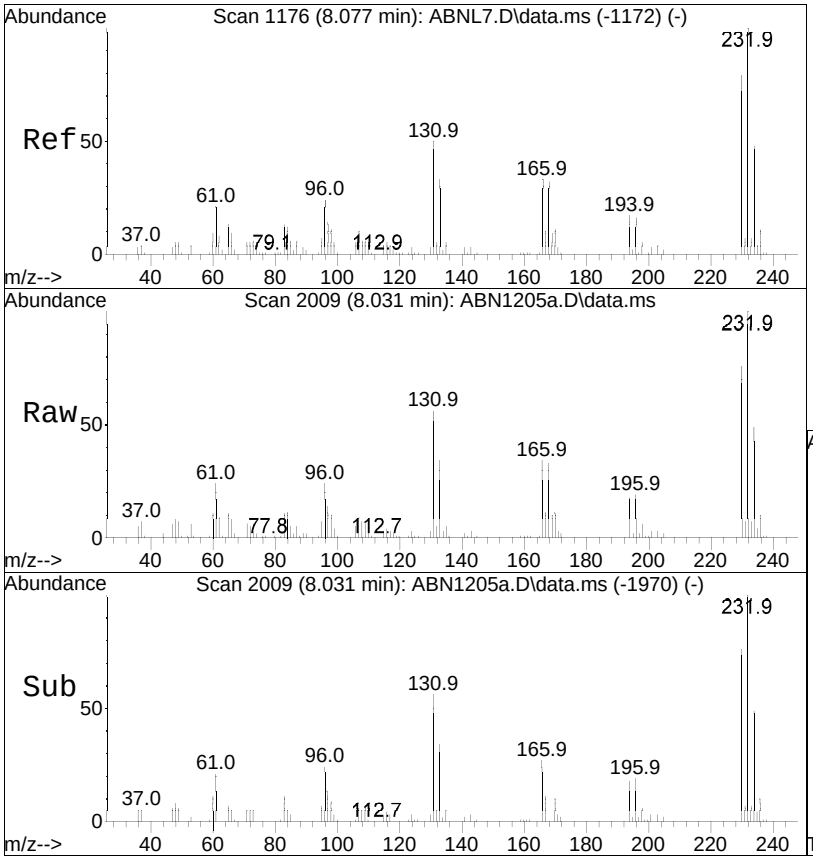


#69
2,3,5,6-Tetrachlorophenol
Concen: 48.65 ug/ml
RT: 7.991 min Scan# 1996
Delta R.T. -0.003 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion:232 Resp: 132699

Ion	Ratio	Lower	Upper
232	100		
230	80.8	63.4	95.0
234	48.5	38.0	57.0

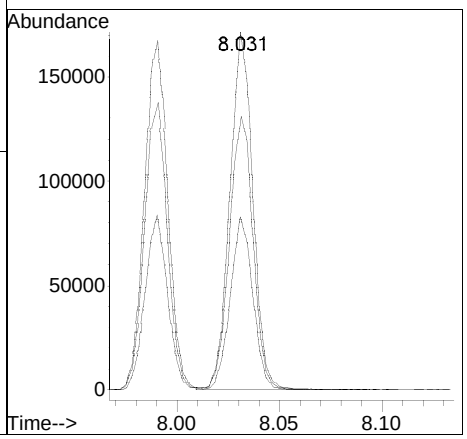


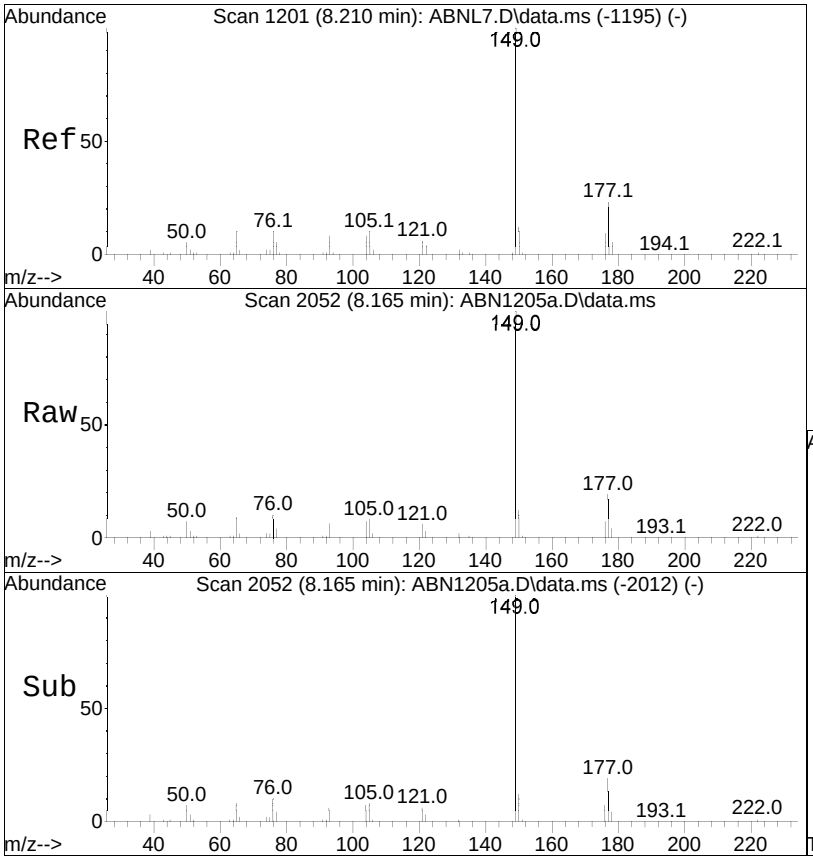


#70
2,3,4,6-Tetrachlorophenol
Concen: 46.40 ug/ml
RT: 8.031 min Scan# 2009
Delta R.T. -0.003 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion:232 Resp: 134107

Ion	Ratio	Lower	Upper
232	100		
230	77.8	62.8	94.2
234	47.5	38.3	57.5

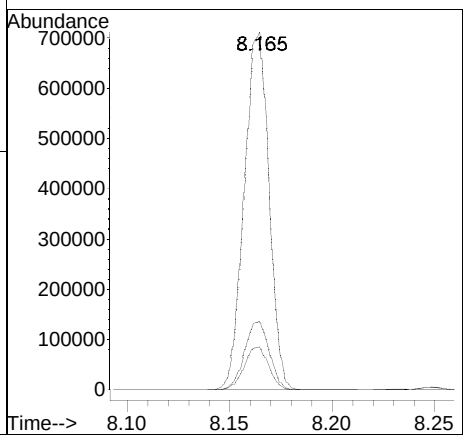


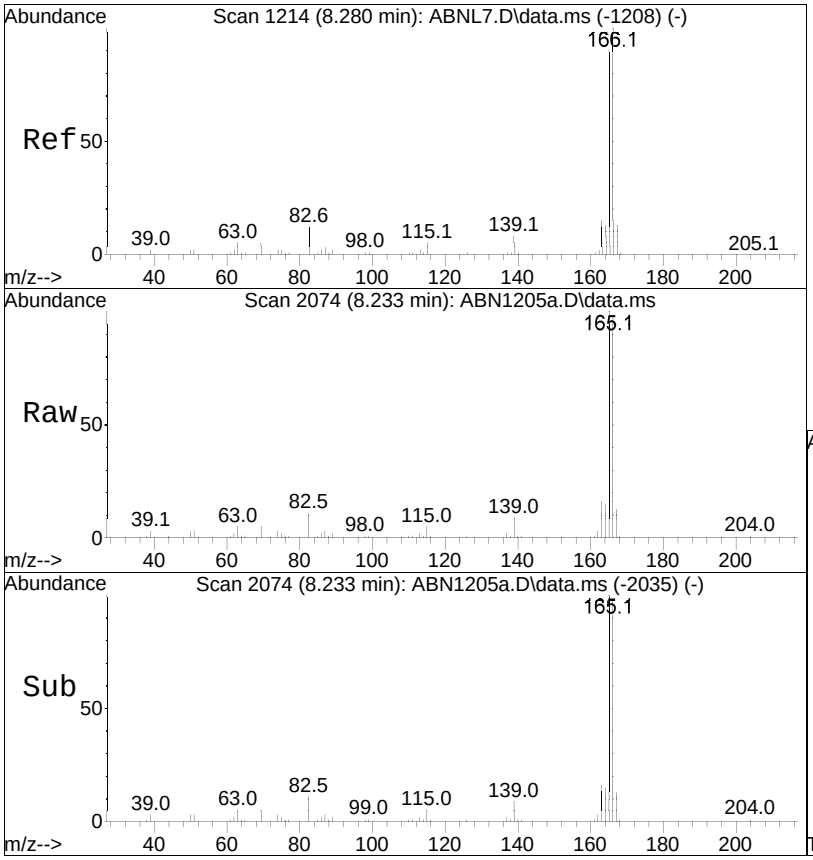


#71
Diethyl phthalate
Concen: 49.97 ug/ml
RT: 8.165 min Scan# 2052
Delta R.T. -0.000 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion:149 Resp: 590768

Ion	Ratio	Lower	Upper
149	100		
177	19.2	15.6	23.4
150	12.0	9.6	14.4

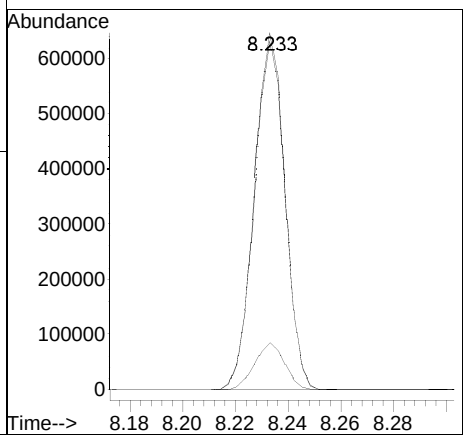


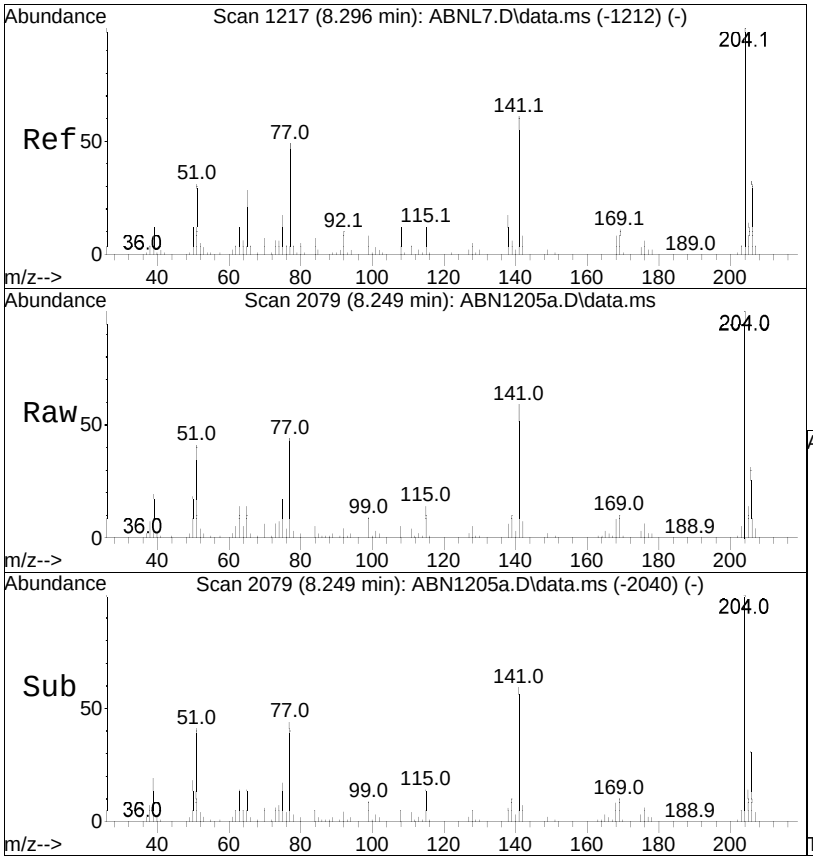


#72
Fluorene
Concen: 46.88 ug/ml
RT: 8.233 min Scan# 2074
Delta R.T. -0.003 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion:166 Resp: 510905

Ion	Ratio	Lower	Upper
166	100		
165	102.3	80.4	120.6
167	13.5	10.7	16.1

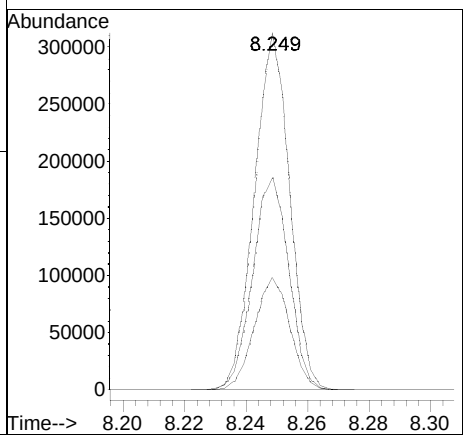


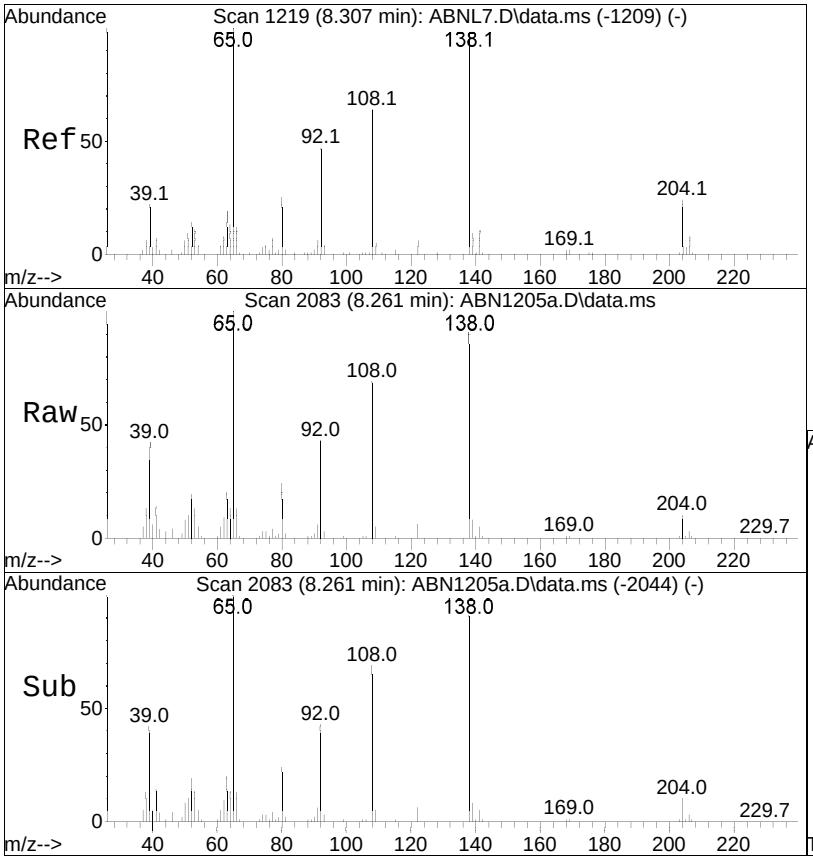


#73
4-Chlorophenyl phenyl ether
Concen: 46.69 ug/ml
RT: 8.249 min Scan# 2079
Delta R.T. -0.003 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion:204 Resp: 246075

Ion	Ratio	Lower	Upper
204	100		
206	32.0	26.0	39.0
141	61.2	48.5	72.7

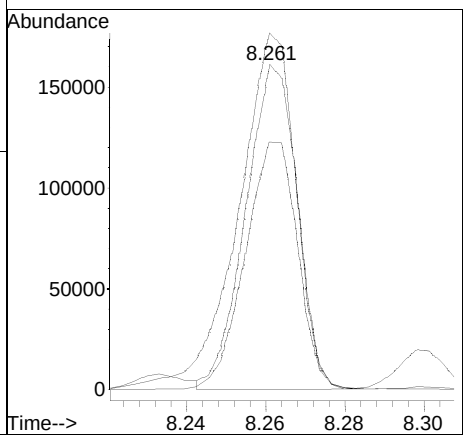


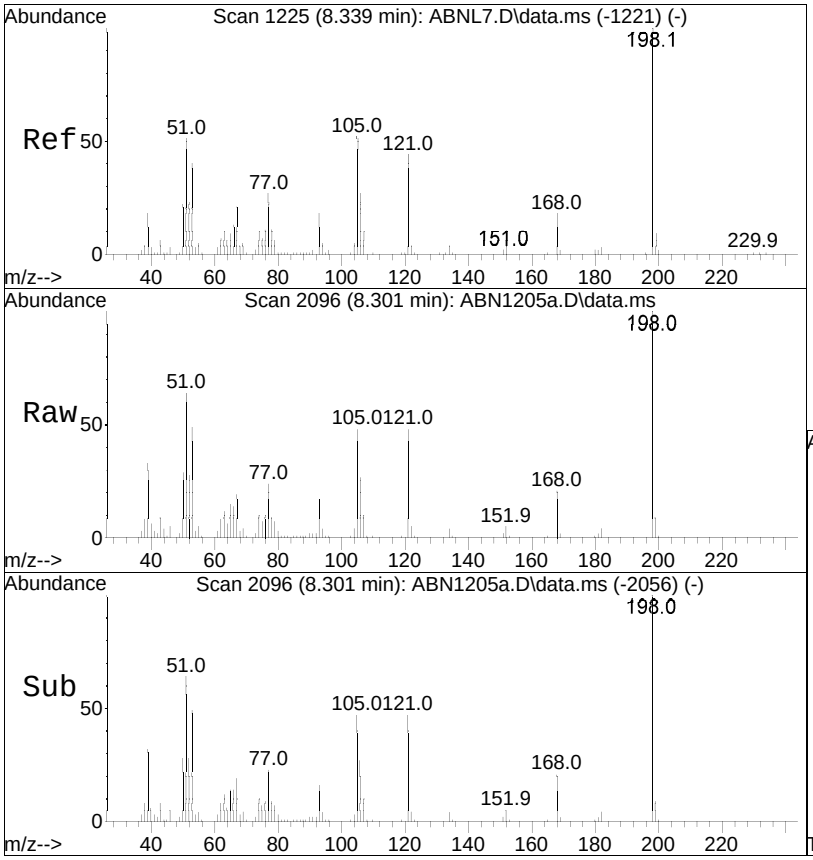


#74
4-Nitroaniline
Concen: 53.85 ug/ml
RT: 8.261 min Scan# 2083
Delta R.T. -0.003 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion:138 Resp: 144881

Ion	Ratio	Lower	Upper
138	100		
108	77.5	54.4	81.6
65	123.1	100.1	150.1

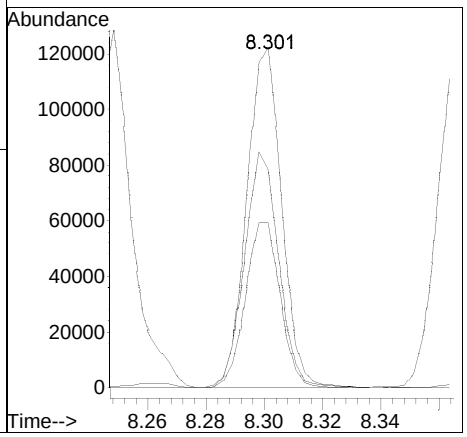


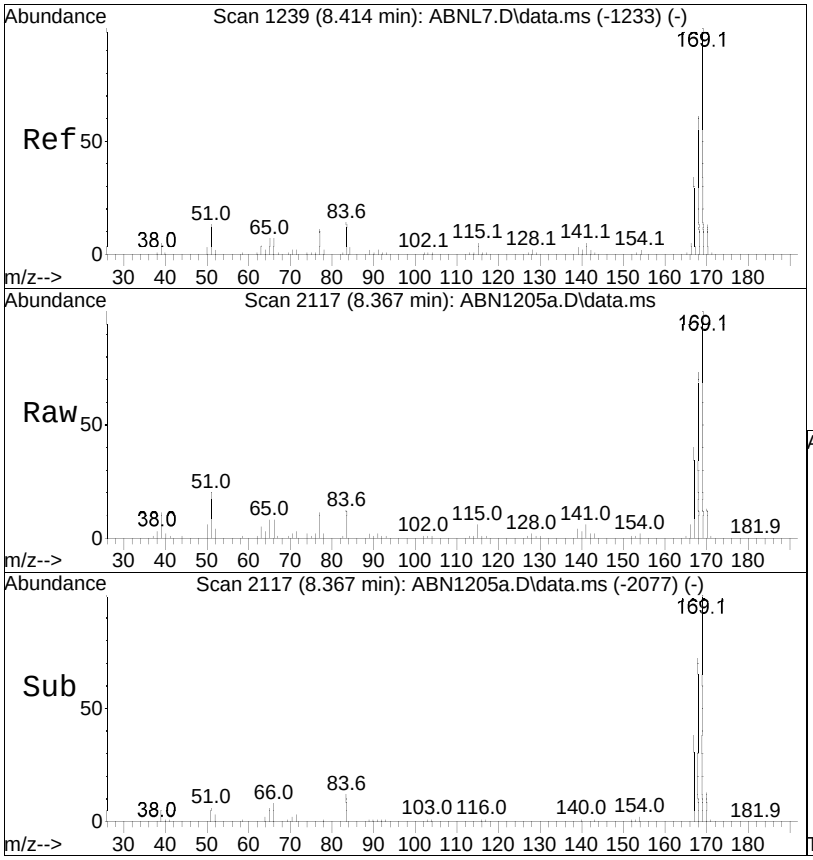


#75
4,6-Dinitro-o-cresol
Concen: 55.20 ug/ml
RT: 8.301 min Scan# 2096
Delta R.T. -0.000 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion:198 Resp: 101777

Ion	Ratio	Lower	Upper
198	100		
51	67.7	48.3	72.5
105	48.6	38.4	57.6

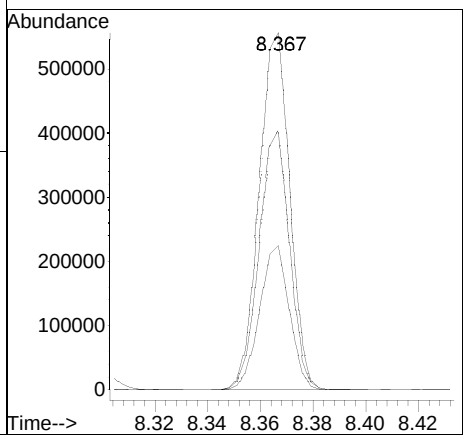


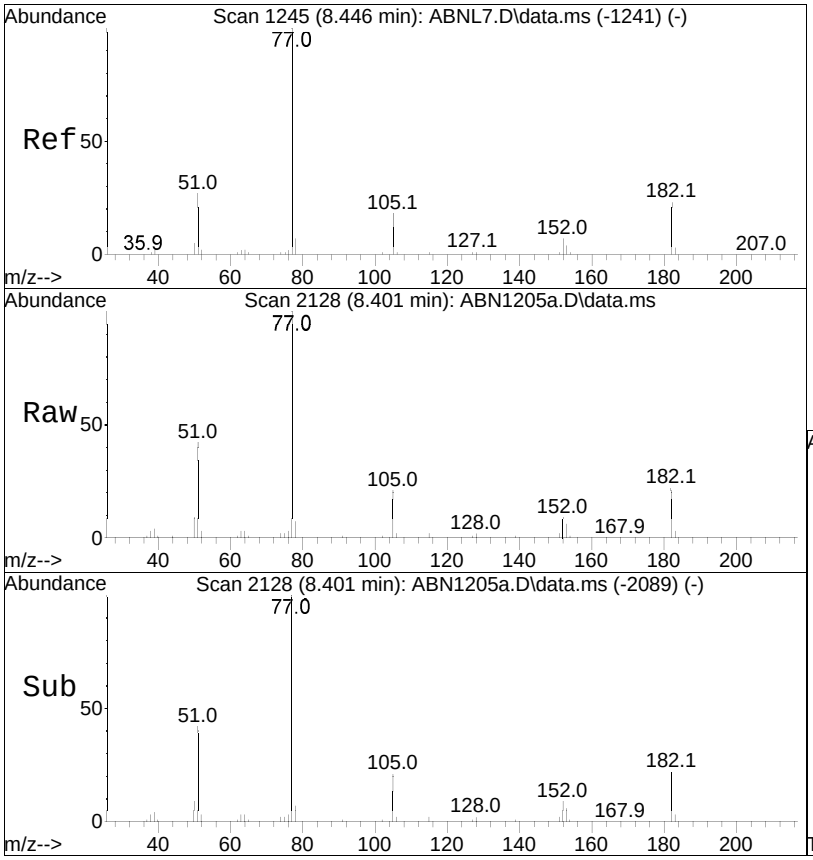


#76
NDPA/DPA
Concen: 48.48 ug/ml
RT: 8.367 min Scan# 2117
Delta R.T. -0.000 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion:169 Resp: 447879

Ion	Ratio	Lower	Upper
169	100		
168	72.1	57.2	85.8
167	39.6	31.0	46.4

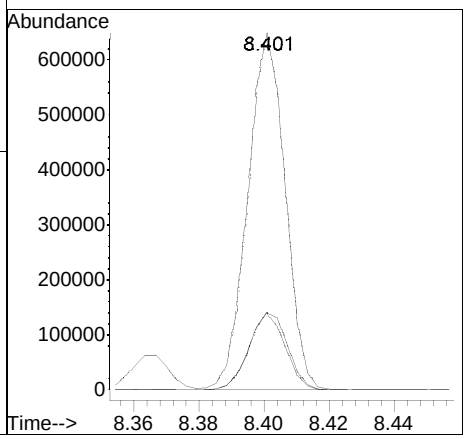


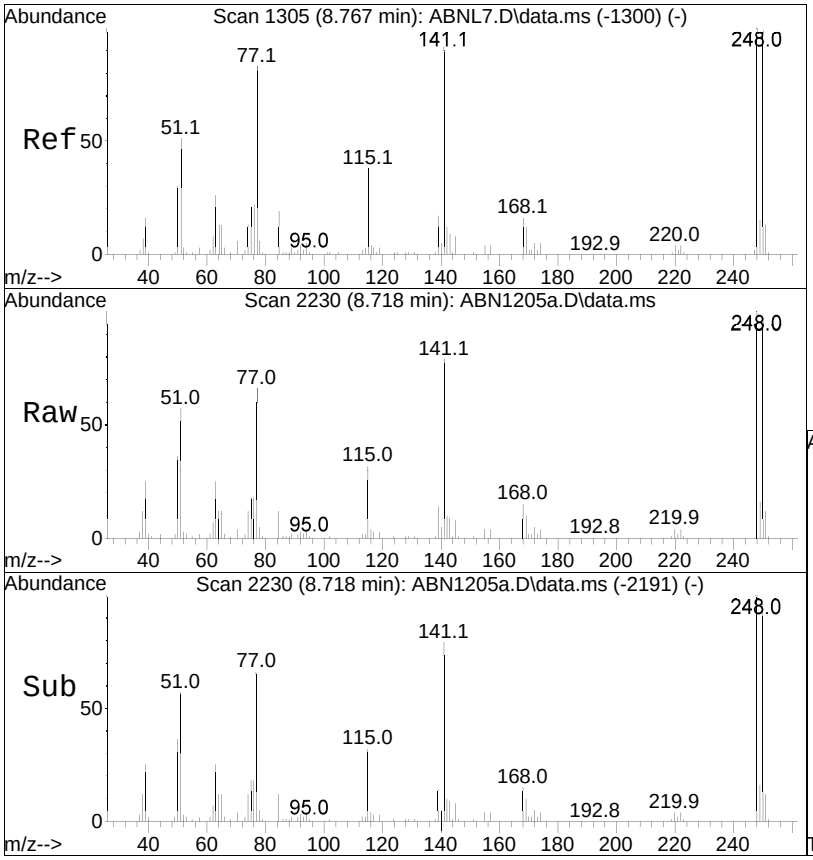


#77
Azobenzene
Concen: 45.41 ug/ml
RT: 8.401 min Scan# 2128
Delta R.T. -0.003 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion: 77 Resp: 511259

Ion	Ratio	Lower	Upper
77	100		
182	22.5	17.2	25.8
105	21.2	17.1	25.7

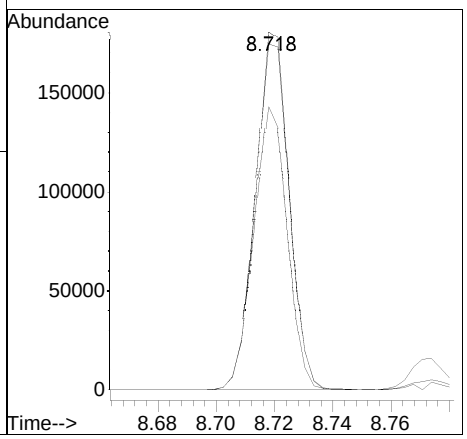


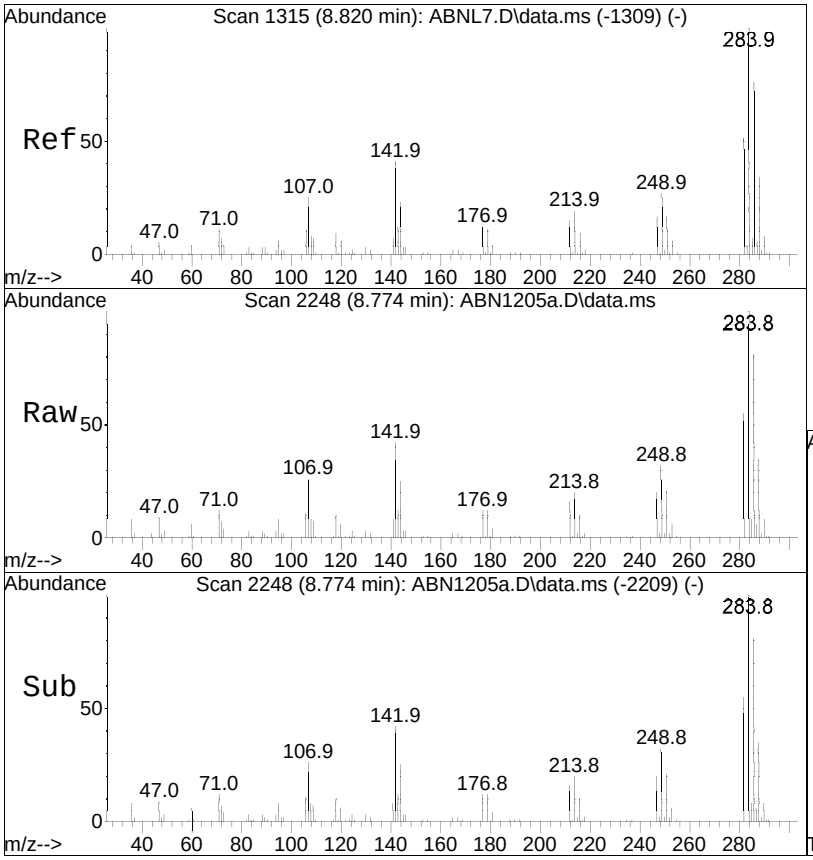


#79
4-Bromophenyl phenyl ether
Concen: 45.00 ug/ml
RT: 8.718 min Scan# 2230
Delta R.T. -0.003 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion:248 Resp: 144718

Ion	Ratio	Lower	Upper
248	100		
141	78.7	59.9	89.9
250	98.0	78.0	117.0

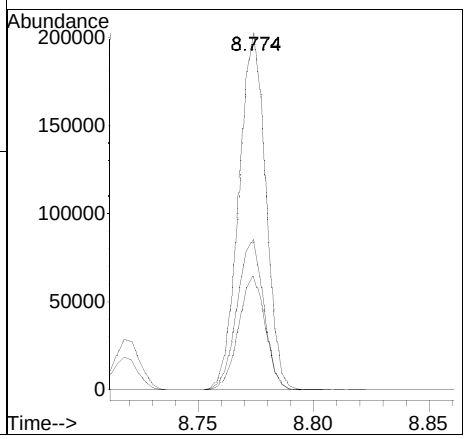


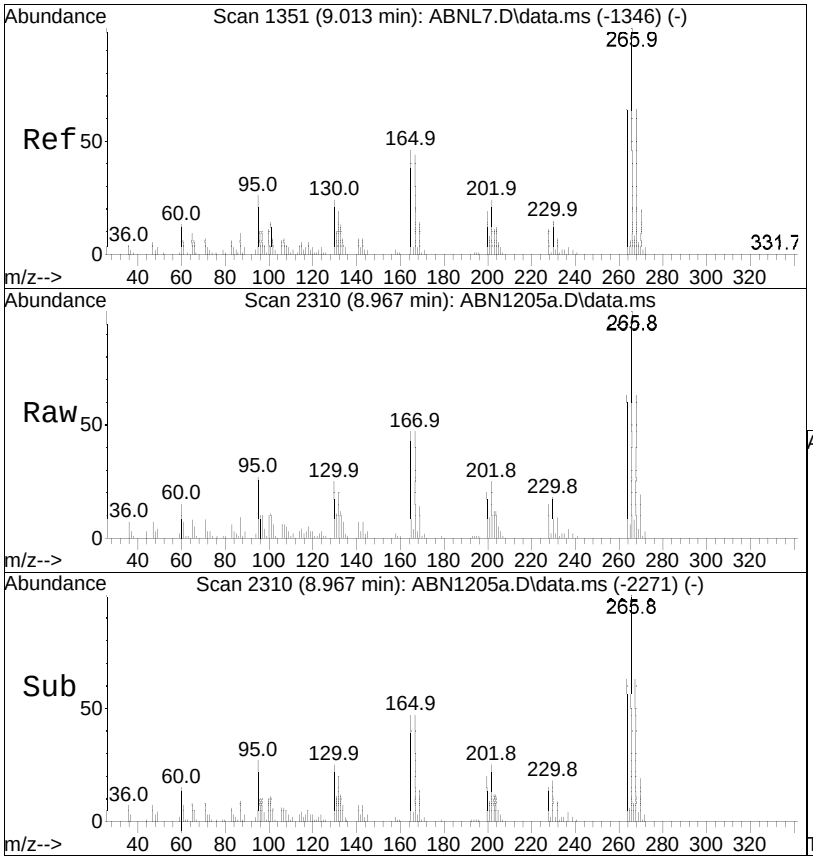


#80
Hexachlorobenzene
Concen: 41.12 ug/ml
RT: 8.774 min Scan# 2248
Delta R.T. -0.003 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion:284 Resp: 163938

Ion	Ratio	Lower	Upper
284	100		
142	42.1	30.6	46.0
249	31.8	24.2	36.2

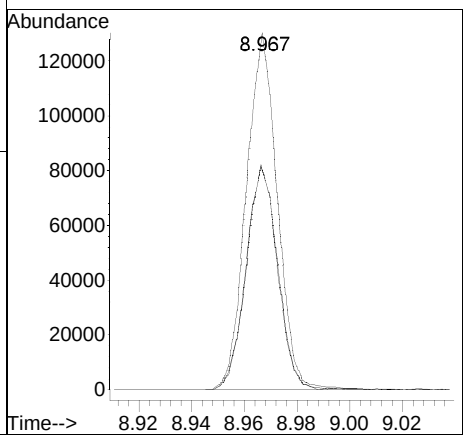


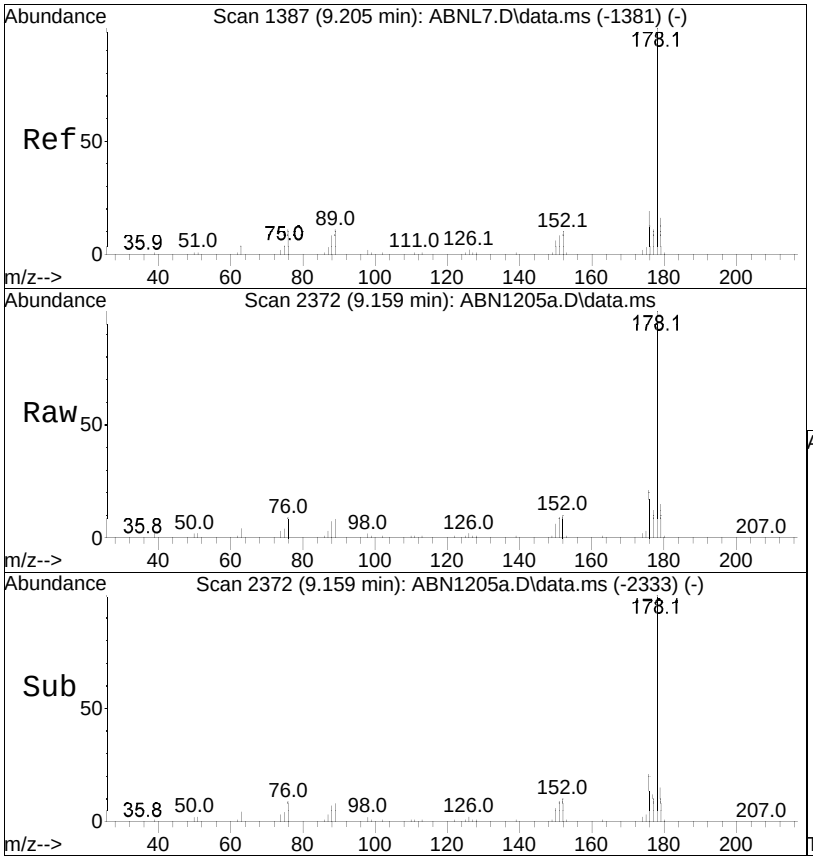


#81
Pentachlorophenol
Concen: 43.12 ug/ml
RT: 8.967 min Scan# 2310
Delta R.T. -0.003 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion:266 Resp: 106038

Ion	Ratio	Lower	Upper
266	100		
264	64.0	50.2	75.4
268	63.7	50.7	76.1

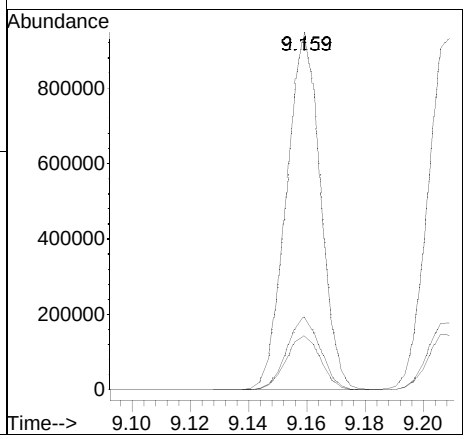


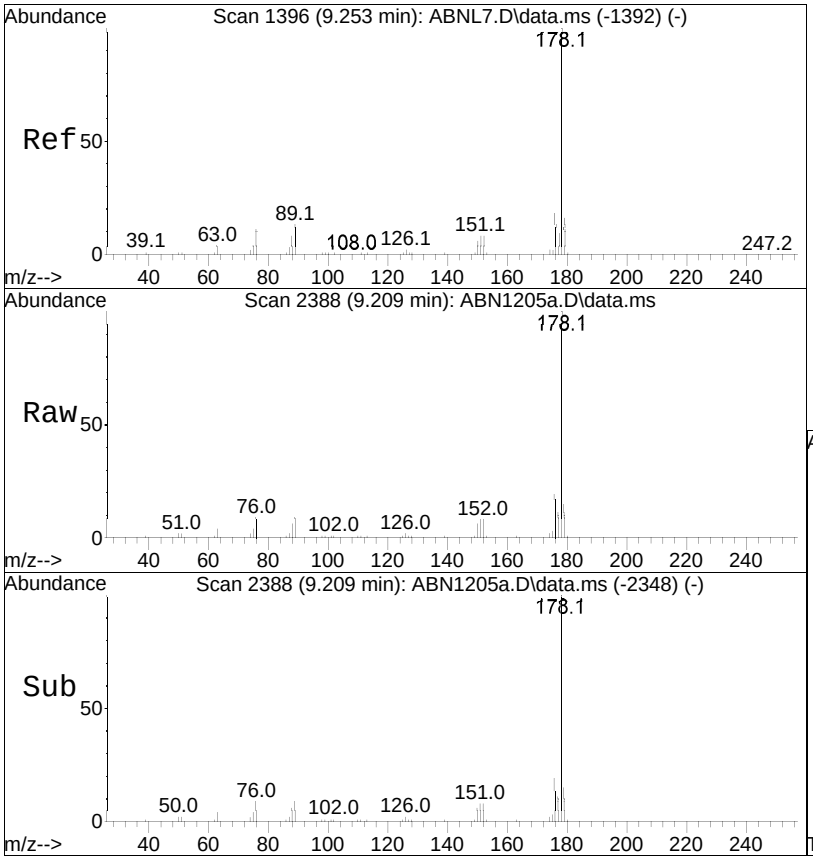


#88
Phenanthrene
Concen: 47.57 ug/ml
RT: 9.159 min Scan# 2372
Delta R.T. -0.003 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion:178 Resp: 772366

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.2	18.4
176	20.0	15.5	23.3

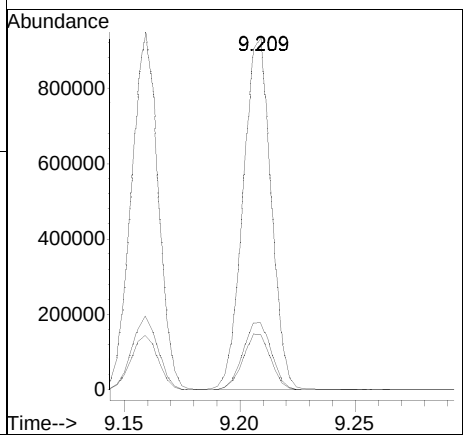


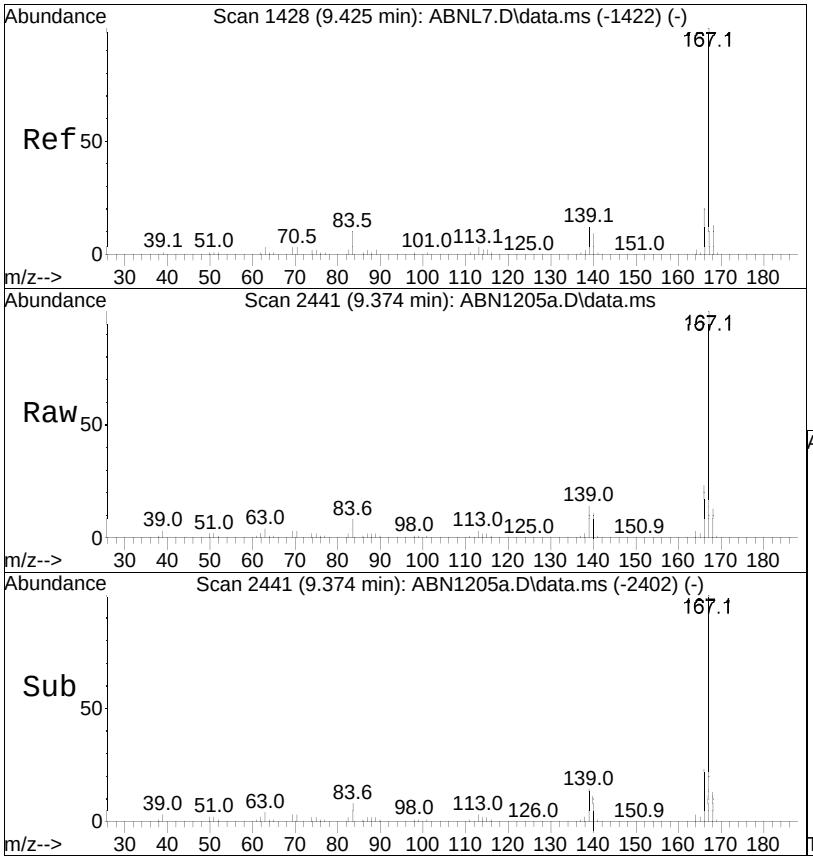


#89
Anthracene
Concen: 48.98 ug/ml
RT: 9.209 min Scan# 2388
Delta R.T. -0.000 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion:178 Resp: 789346

Ion	Ratio	Lower	Upper
178	100		
179	15.7	12.3	18.5
176	19.4	15.0	22.6

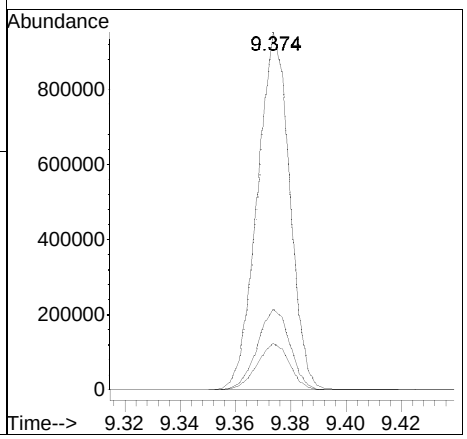


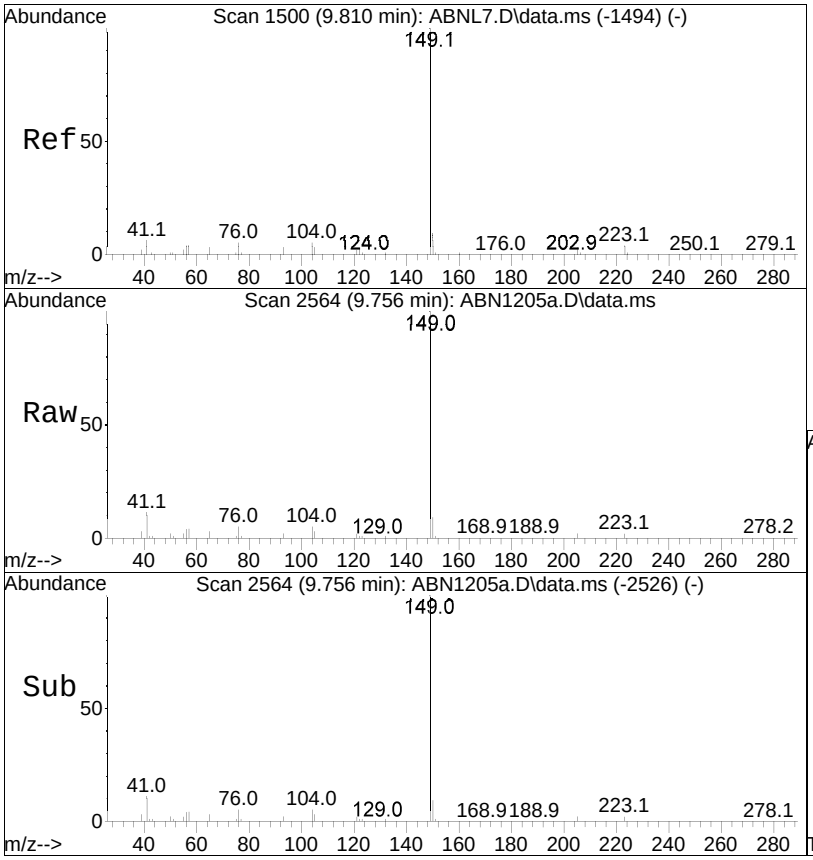


#90
Carbazole
Concen: 51.17 ug/ml
RT: 9.374 min Scan# 2441
Delta R.T. -0.003 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion:167 Resp: 766917

Ion	Ratio	Lower	Upper
167	100		
168	13.2	10.6	16.0
166	22.9	18.0	27.0

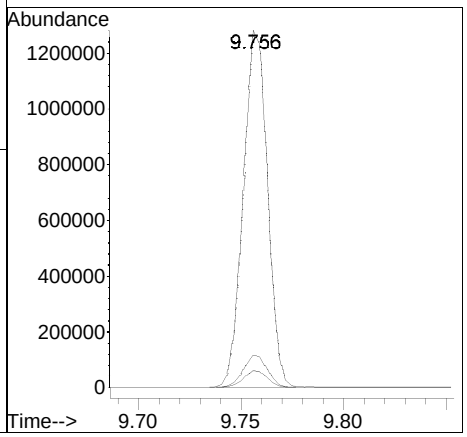


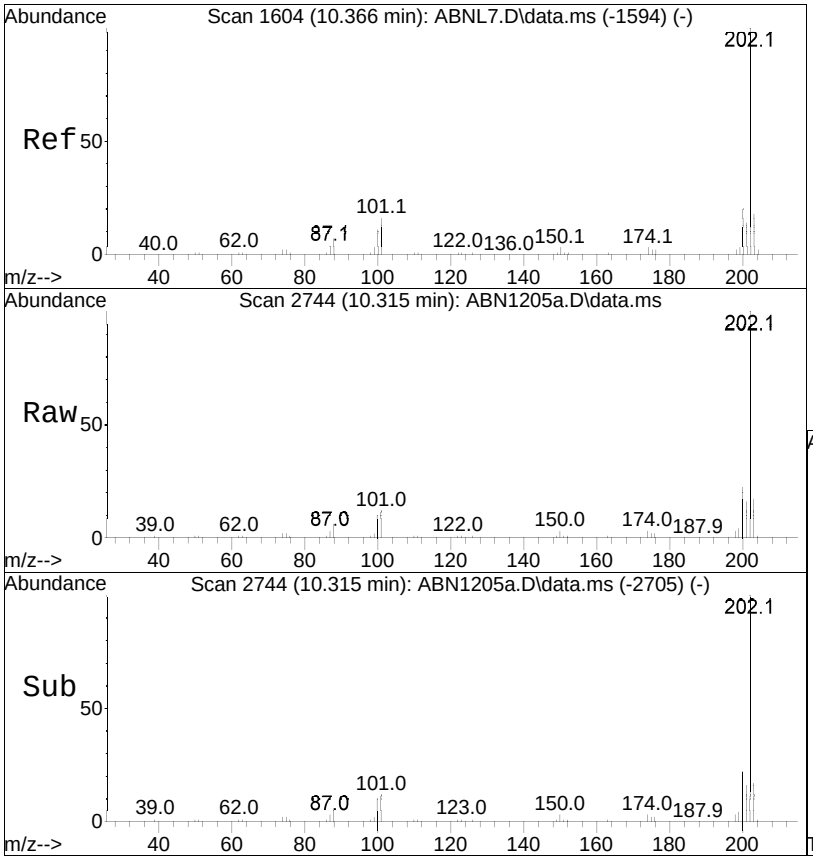


#91
Di-n-butylphthalate
Concen: 55.48 ug/ml
RT: 9.756 min Scan# 2564
Delta R.T. -0.006 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion:149 Resp: 1038221

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.3	10.9
104	4.7	3.6	5.4

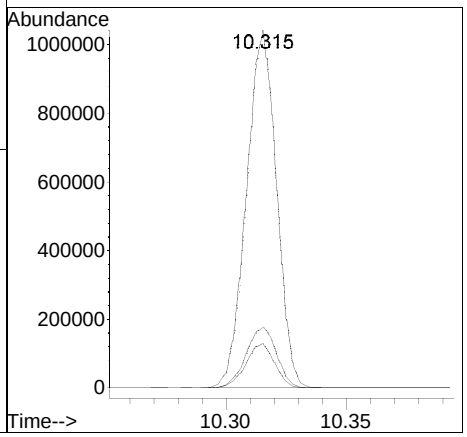


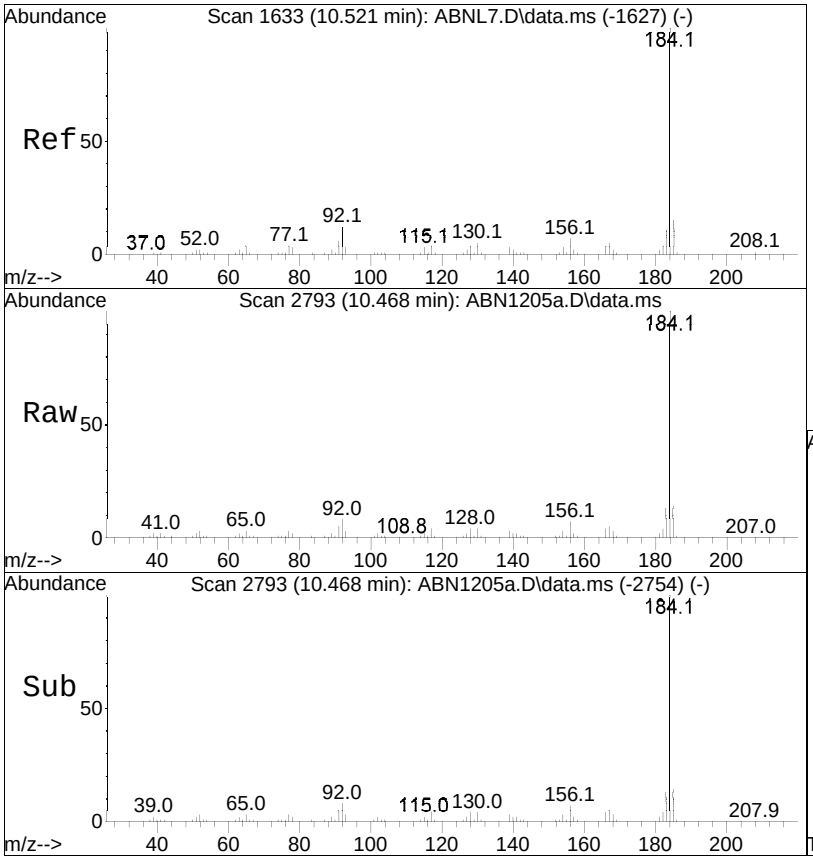


#92
Fluoranthene
Concen: 52.04 ug/ml
RT: 10.315 min Scan# 2744
Delta R.T. -0.003 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion:202 Resp: 894039

Ion	Ratio	Lower	Upper
202	100		
101	12.1	11.2	16.8
203	17.4	13.8	20.6

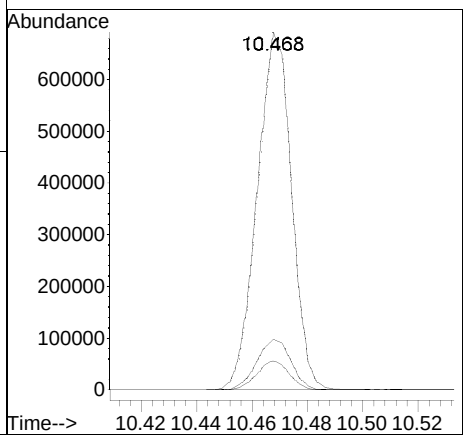


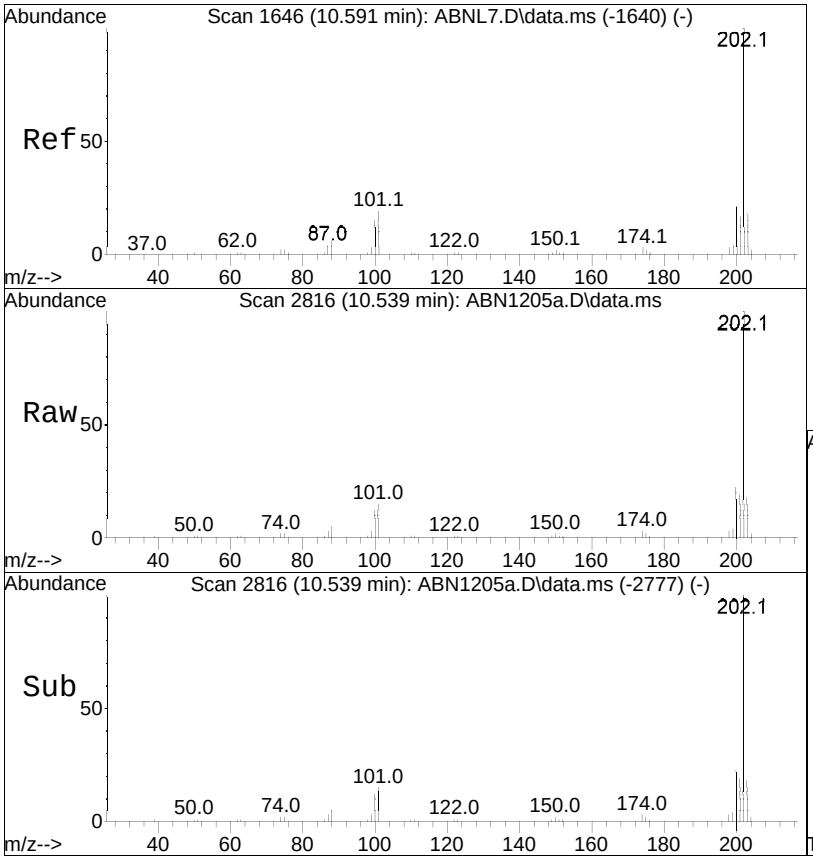


#93
Benzidine
Concen: 54.67 ug/ml
RT: 10.468 min Scan# 2793
Delta R.T. -0.003 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion:184 Resp: 589439

Ion	Ratio	Lower	Upper
184	100		
92	7.8	7.2	10.8
185	14.3	11.3	16.9

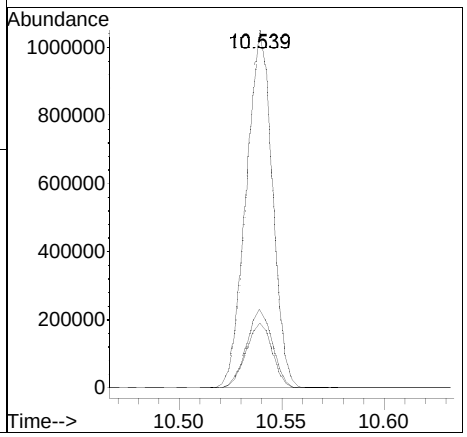


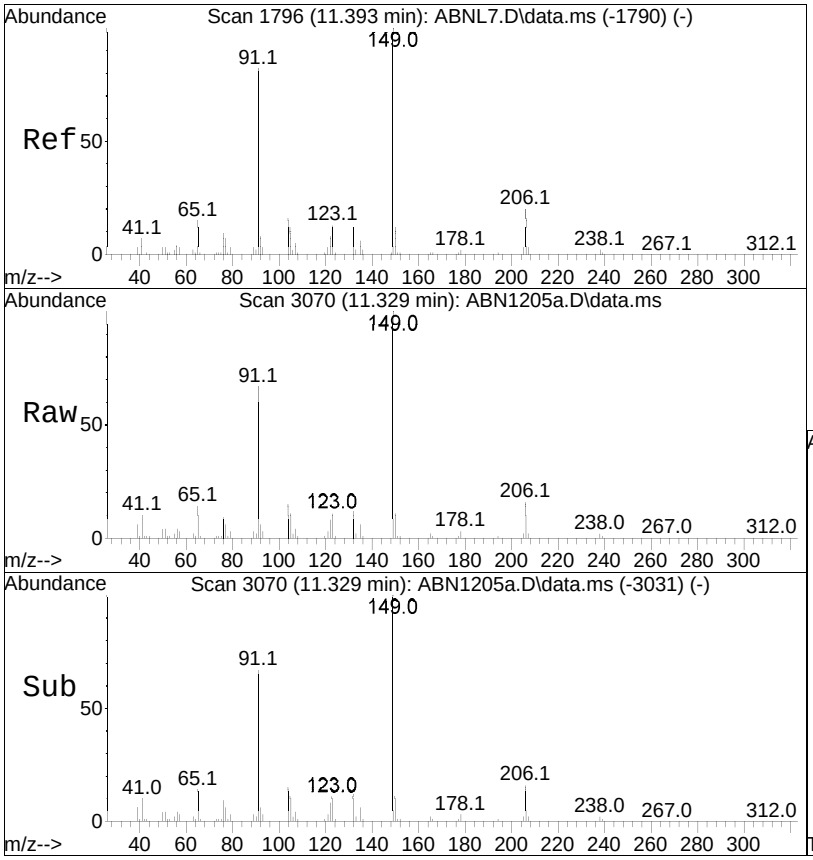


#94
Pyrene
Concen: 51.42 ug/ml
RT: 10.539 min Scan# 2816
Delta R.T. -0.003 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion:202 Resp: 928398

Ion	Ratio	Lower	Upper
202	100		
200	21.8	17.0	25.4
203	18.2	14.2	21.4

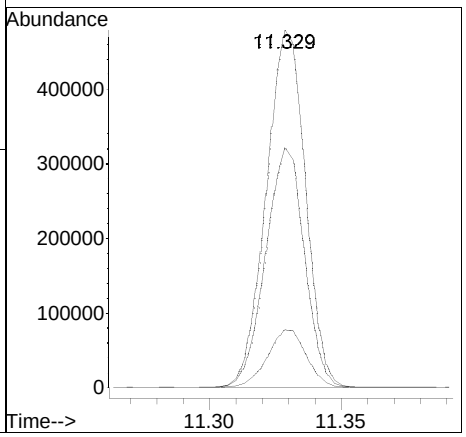


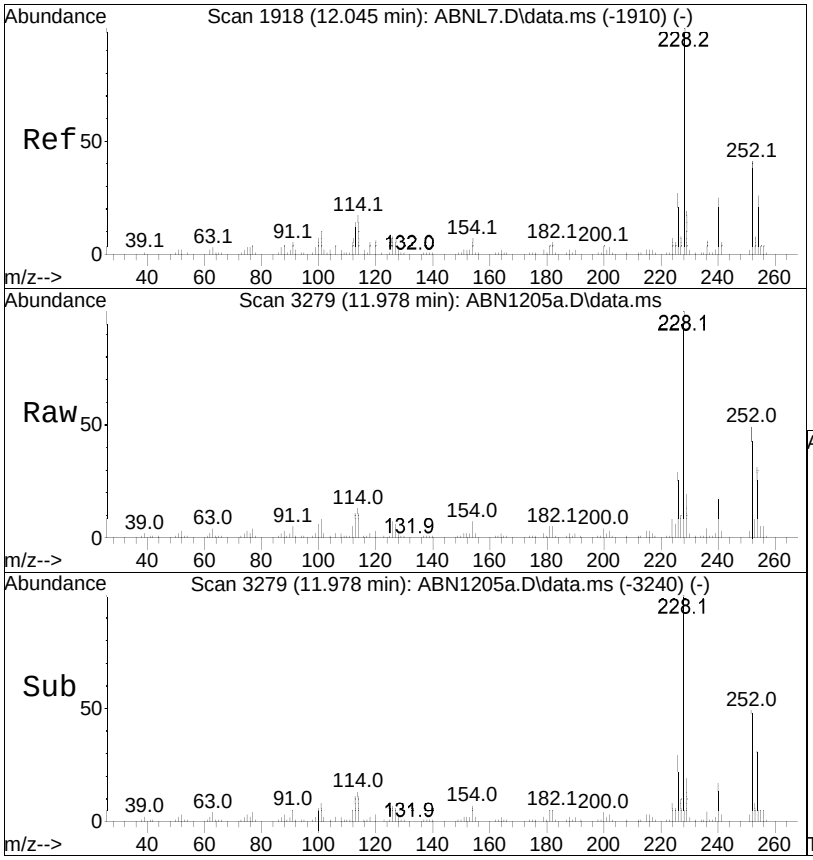


#96
Butyl benzyl phthalate
Concen: 60.39 ug/ml
RT: 11.329 min Scan# 3070
Delta R.T. -0.003 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion:149 Resp: 491340

Ion	Ratio	Lower	Upper
149	100		
91	66.5	54.6	81.8
206	16.2	12.5	18.7

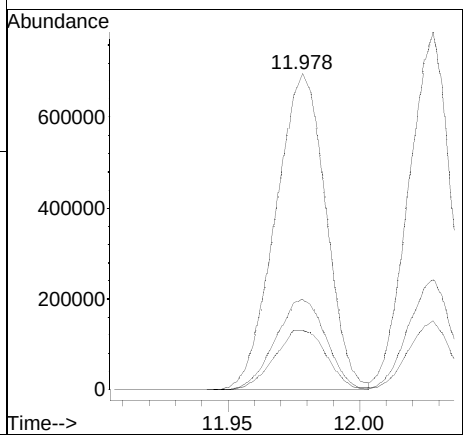


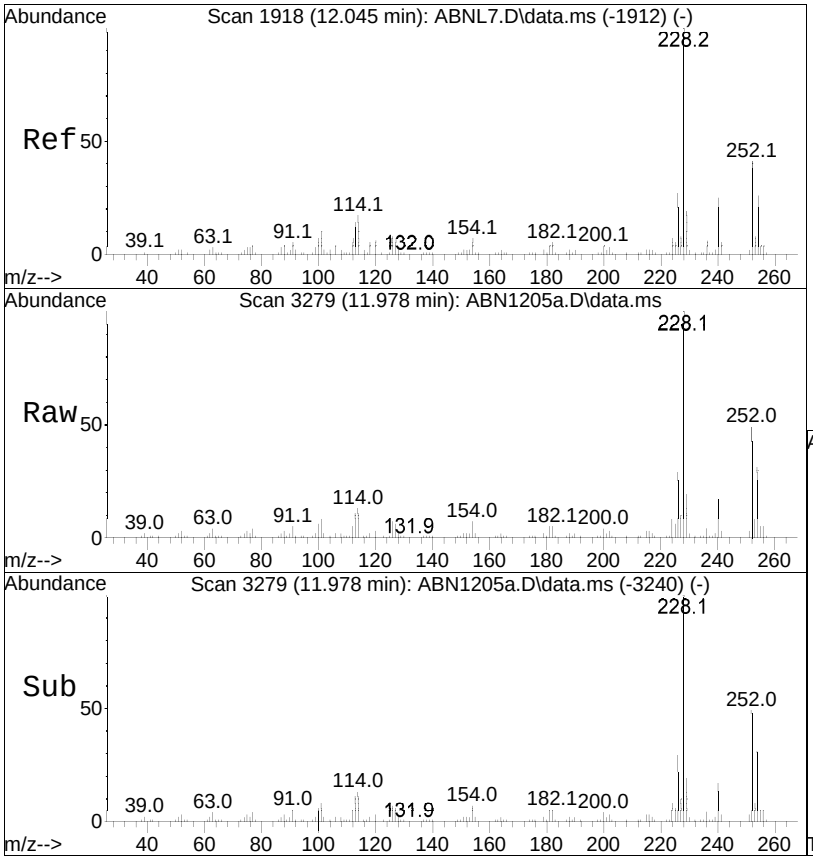


#104
Benzo(a)anthracene
Concen: 50.67 ug/ml
RT: 11.978 min Scan# 3279
Delta R.T. -0.003 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion:228 Resp: 924766

Ion	Ratio	Lower	Upper
228	100		
226	28.8	22.2	33.4
229	19.5	15.6	23.4

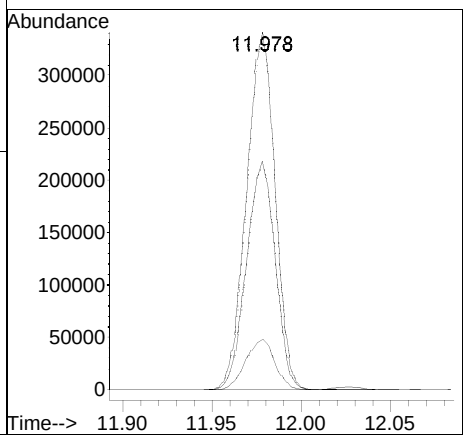


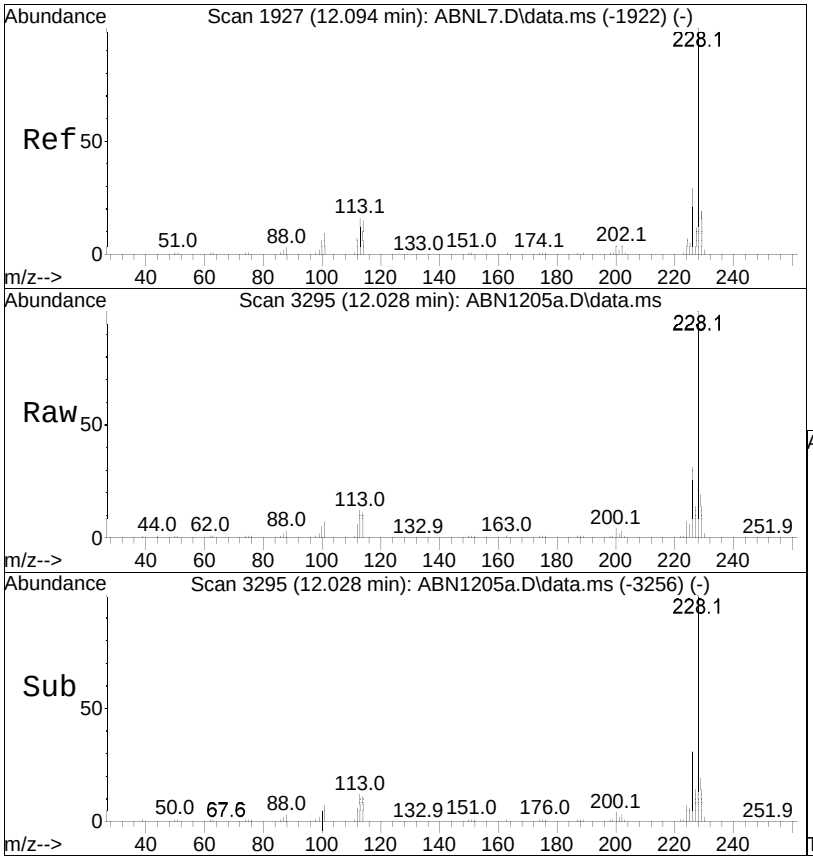


#105
3,3'-Dichlorobenzidine
Concen: 52.56 ug/ml
RT: 11.978 min Scan# 3279
Delta R.T. -0.003 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion:252 Resp: 376404

Ion	Ratio	Lower	Upper
252	100		
126	14.6	12.4	18.6
254	64.4	51.8	77.6

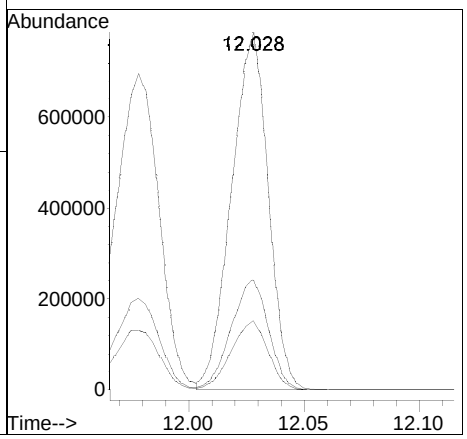


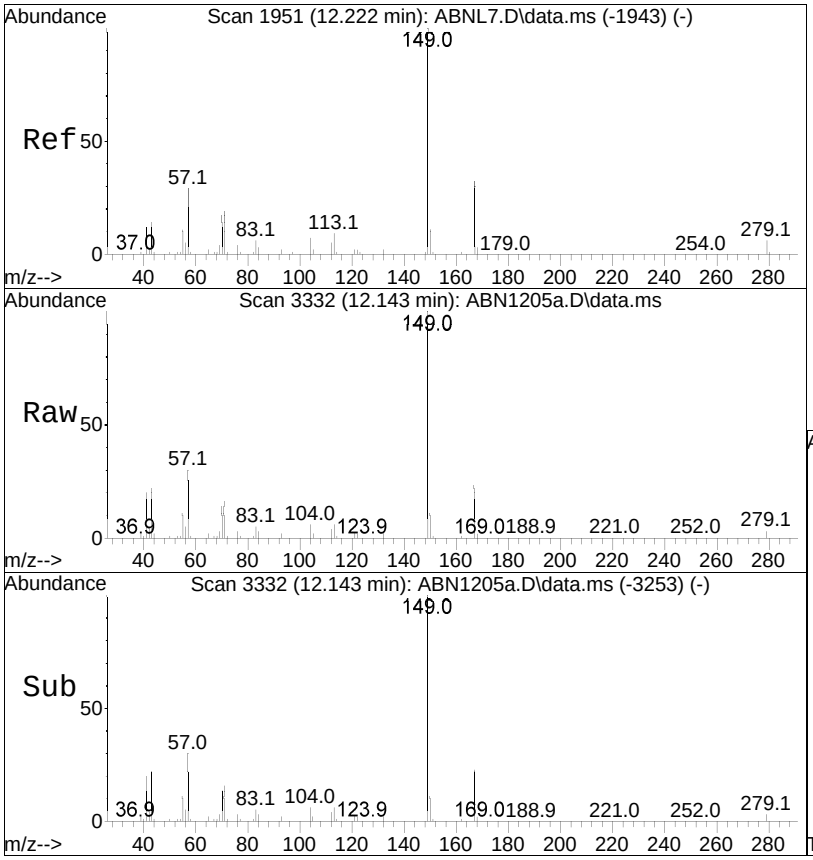


#106
Chrysene
Concen: 49.72 ug/ml
RT: 12.028 min Scan# 3295
Delta R.T. -0.003 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion:228 Resp: 870055

Ion	Ratio	Lower	Upper
228	100		
226	31.2	24.3	36.5
229	19.4	15.5	23.3

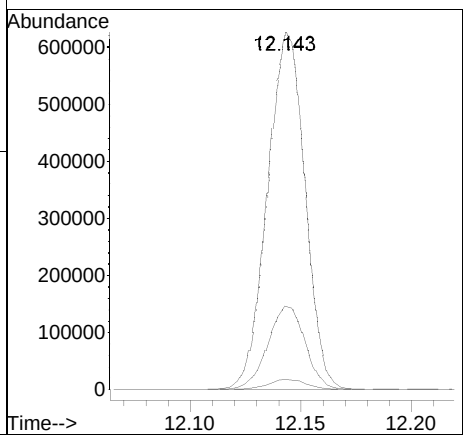


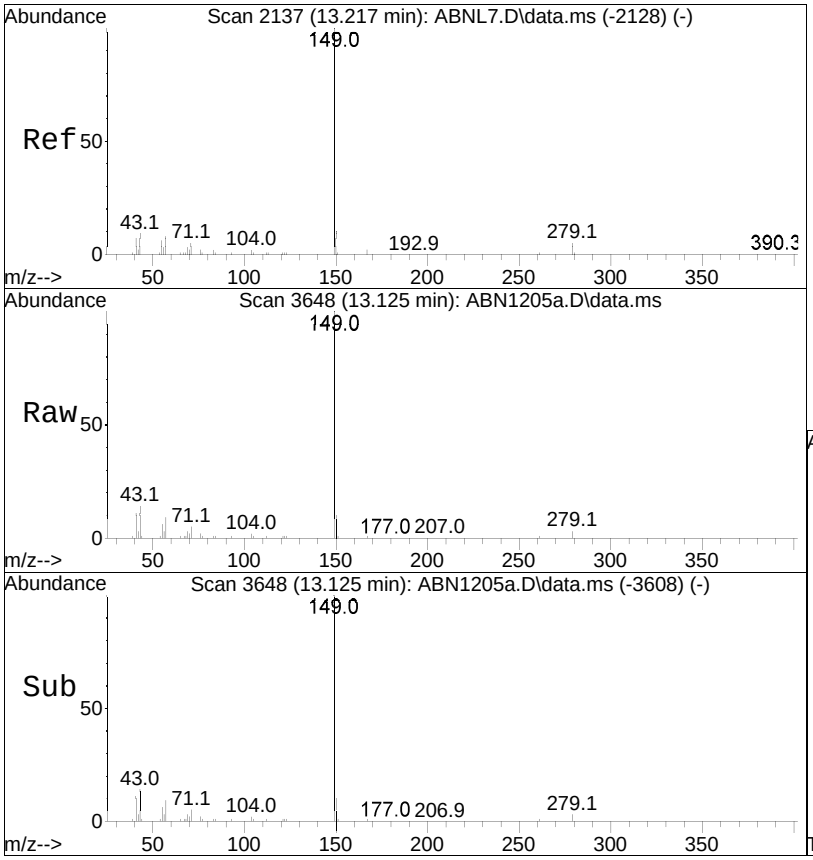


#107
Bis(2-ethylhexyl)phthalate
Concen: 61.56 ug/ml
RT: 12.143 min Scan# 3332
Delta R.T. -0.003 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion:149 Resp: 732430

Ion	Ratio	Lower	Upper
149	100		
167	23.4	19.0	28.6
279	2.7	2.0	3.0

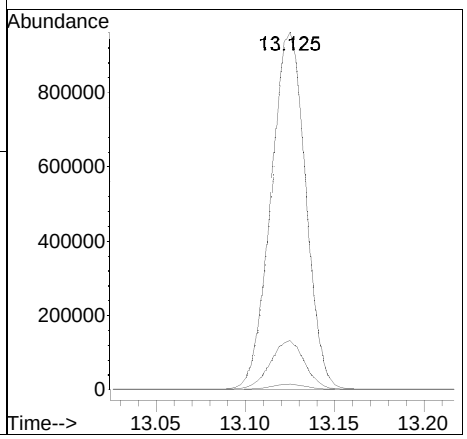


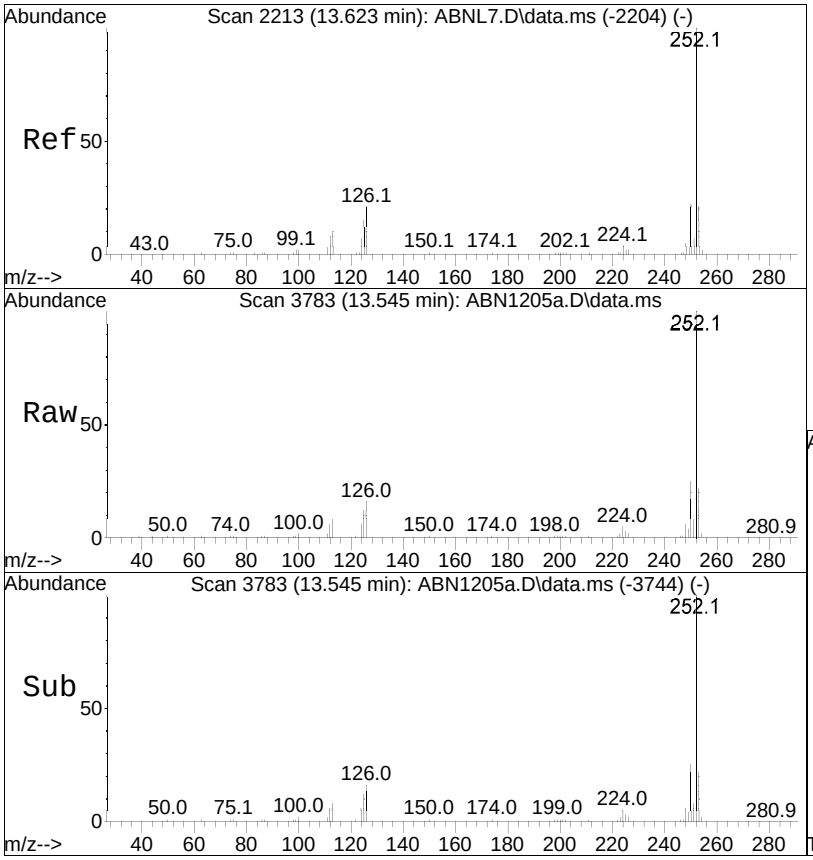


#108
Di-n-octylphthalate
Concen: 65.39 ug/ml
RT: 13.125 min Scan# 3648
Delta R.T. -0.000 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion:149 Resp: 1283412

Ion	Ratio	Lower	Upper
149	100		
43	13.7	9.0	13.4#
167	1.4	1.1	1.7

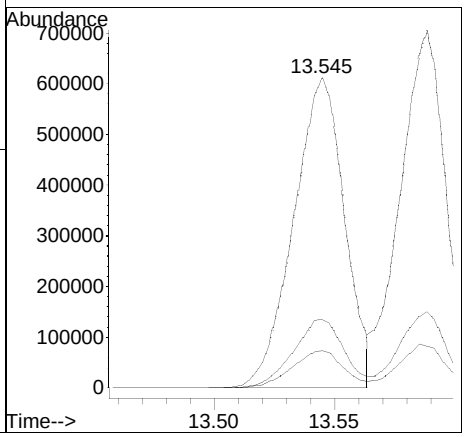


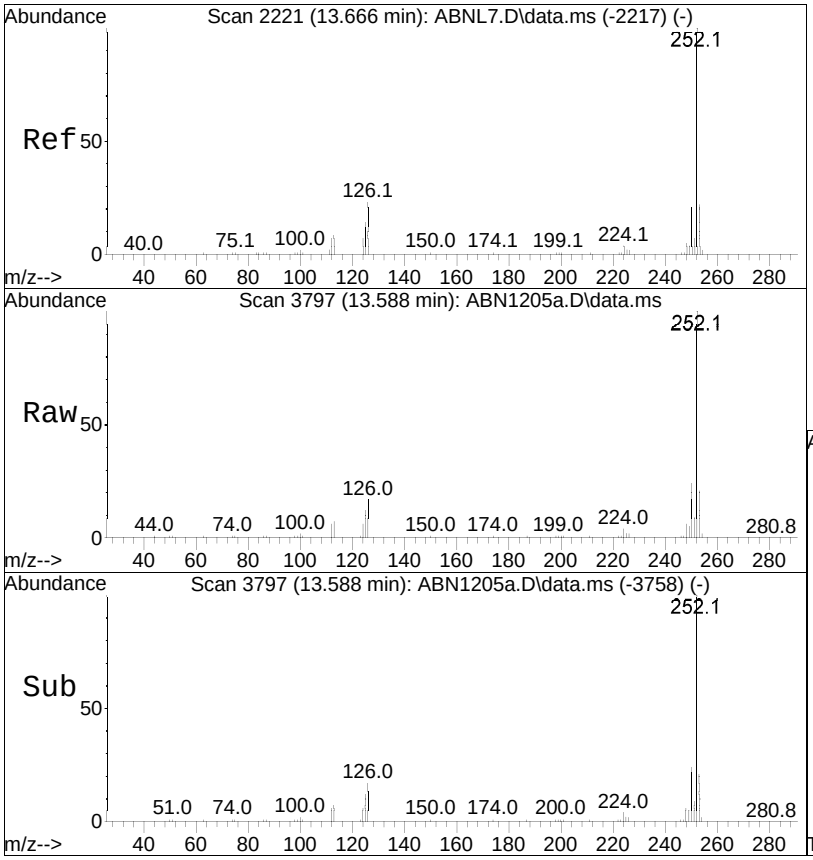


#109
Benzo(b)fluoranthene
Concen: 54.51 ug/ml
RT: 13.545 min Scan# 3783
Delta R.T. -0.003 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion:252 Resp: 898126

Ion	Ratio	Lower	Upper
252	100		
125	12.3	11.4	17.0
253	22.1	17.5	26.3

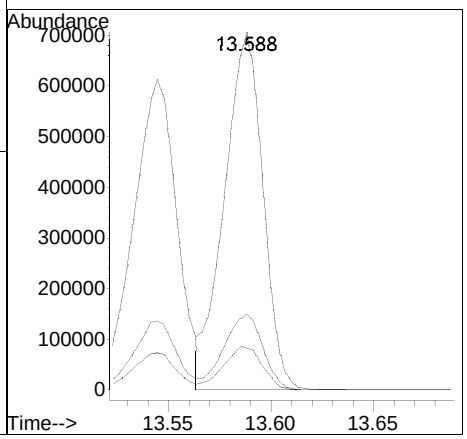


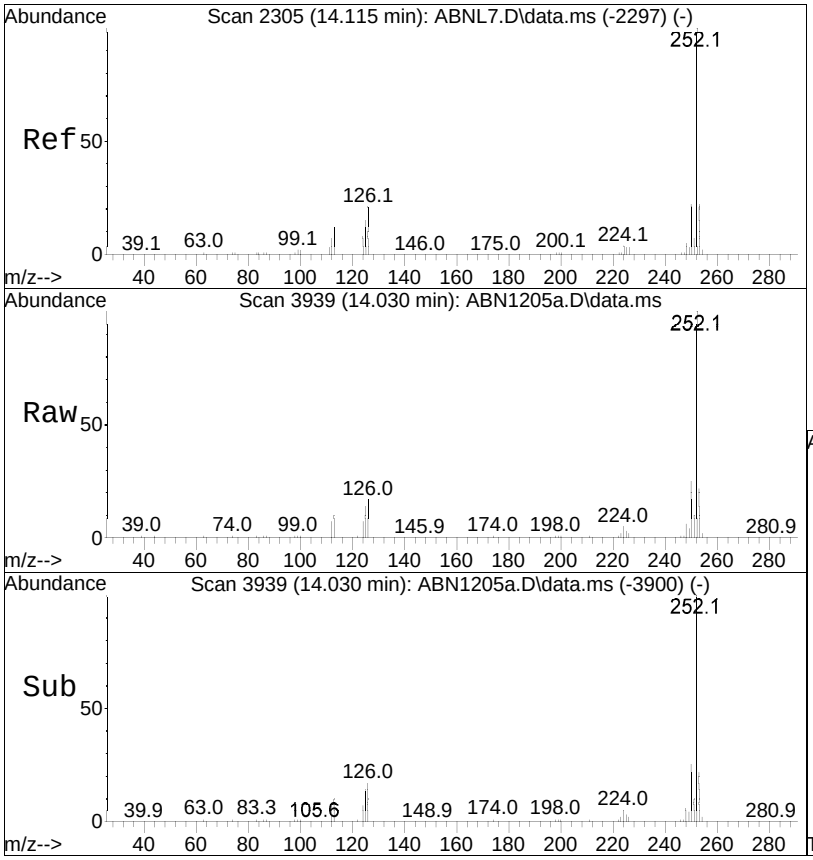


#110
Benzo(k)fluoranthene
Concen: 50.99 ug/ml
RT: 13.588 min Scan# 3797
Delta R.T. -0.003 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion:252 Resp: 920807

Ion	Ratio	Lower	Upper
252	100		
125	12.4	11.0	16.6
253	21.6	17.4	26.0

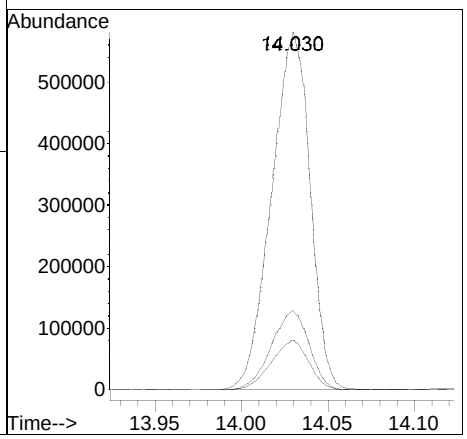


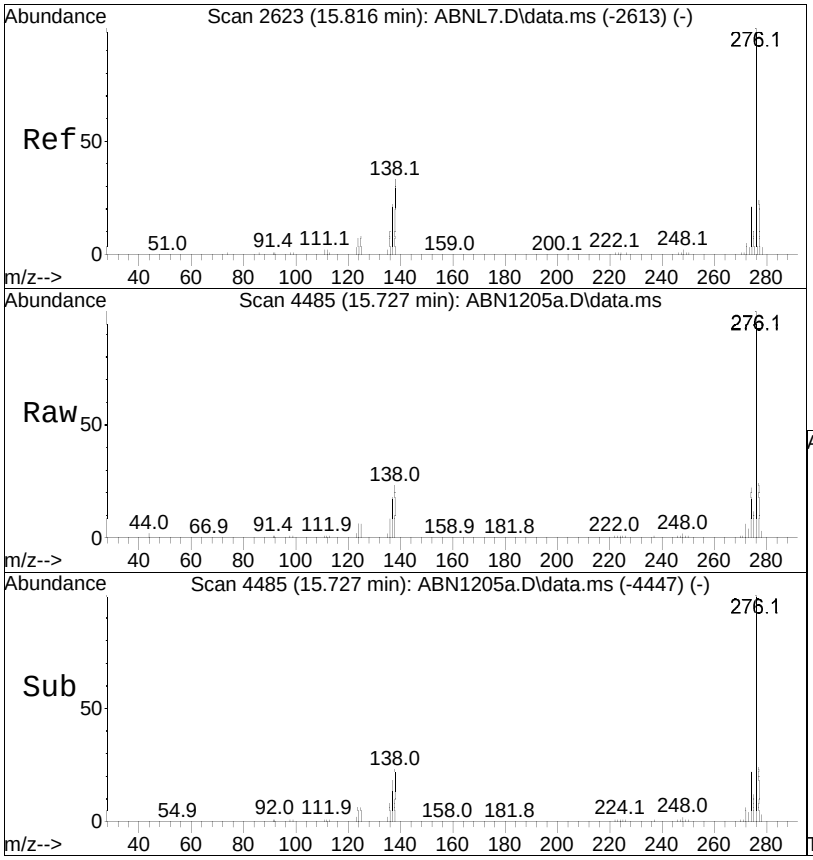


#111
Benzo(a)pyrene
Concen: 53.70 ug/ml
RT: 14.030 min Scan# 3939
Delta R.T. -0.003 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion:252 Resp: 892513

Ion	Ratio	Lower	Upper
252	100		
125	13.6	12.4	18.6
253	21.9	17.6	26.4

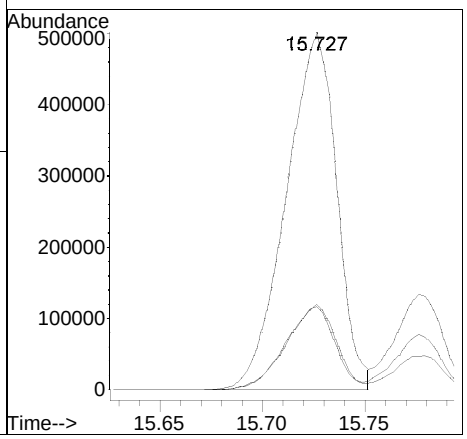


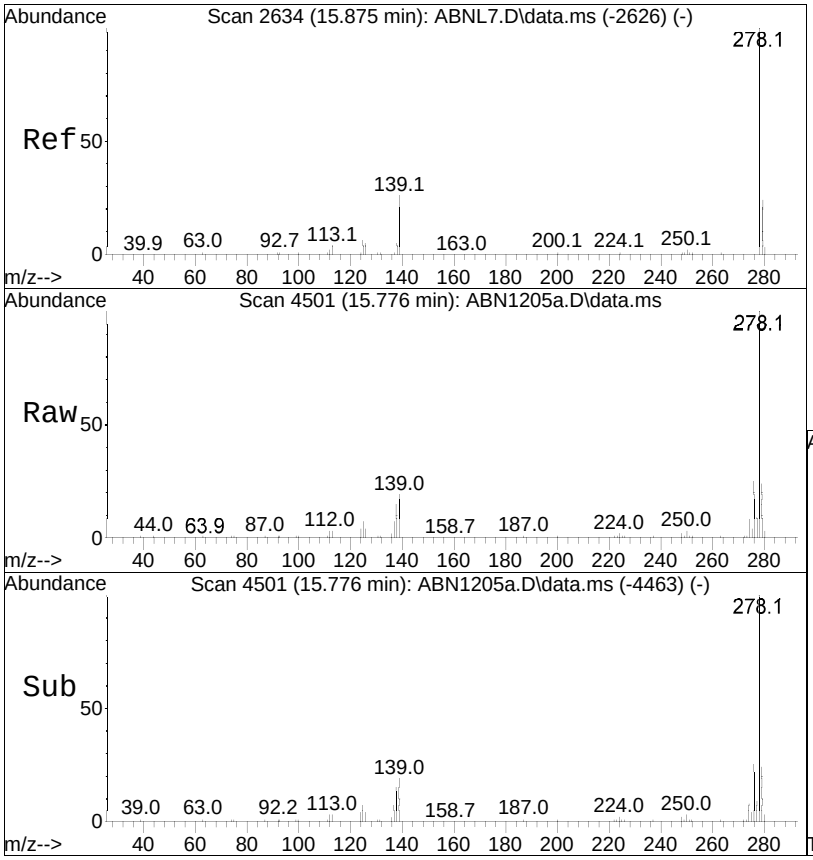


#113
Indeno(1,2,3-cd)pyrene
Concen: 54.35 ug/ml
RT: 15.727 min Scan# 4485
Delta R.T. -0.006 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion:276 Resp: 852671

Ion	Ratio	Lower	Upper
276	100		
138	23.1	21.0	31.6
277	23.8	19.1	28.7

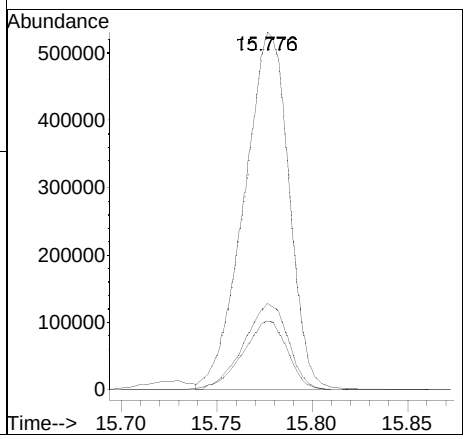


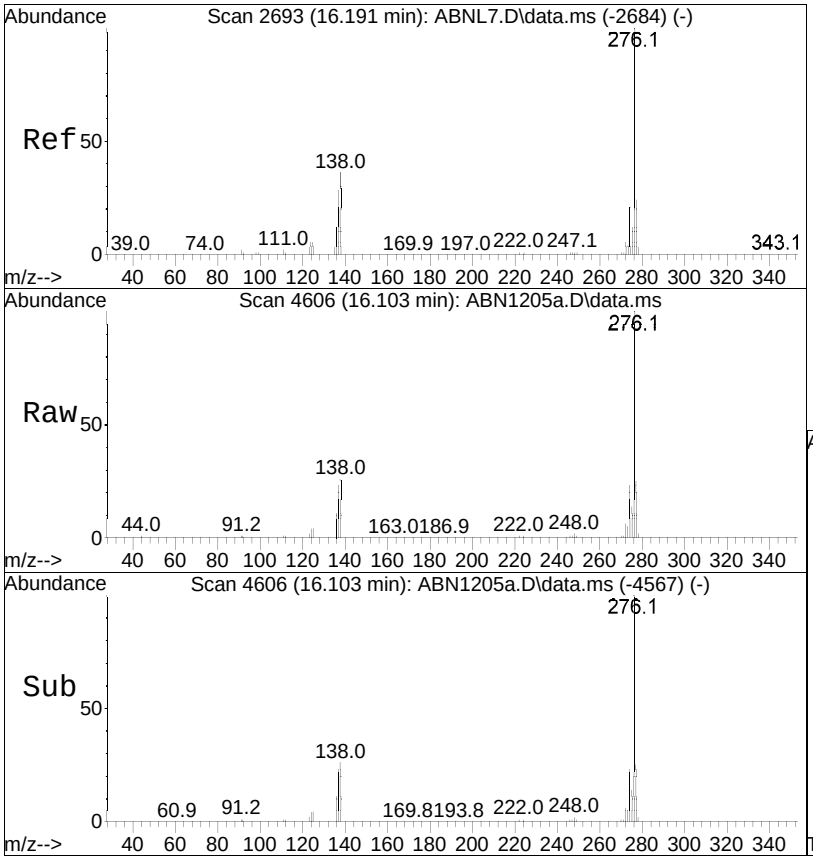


#114
Dibenzo(a,h)anthracene
Concen: 52.15 ug/ml
RT: 15.776 min Scan# 4501
Delta R.T. -0.006 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion:278 Resp: 860574

Ion	Ratio	Lower	Upper
278	100		
139	19.3	16.9	25.3
279	24.2	19.2	28.8

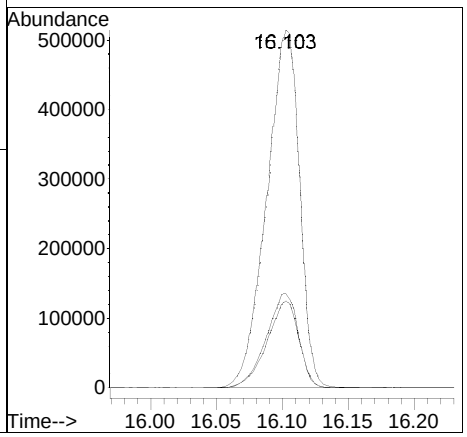




#115
Benzo(ghi)perylene
Concen: 50.25 ug/ml
RT: 16.103 min Scan# 4606
Delta R.T. -0.003 min
Lab File: ABN1205a.D
Acq: 5 Dec 2018 2:22 pm

Tgt Ion:276 Resp: 882083

Ion	Ratio	Lower	Upper
276	100		
138	26.1	22.9	34.3
277	23.9	18.9	28.3



Manual Integration Report

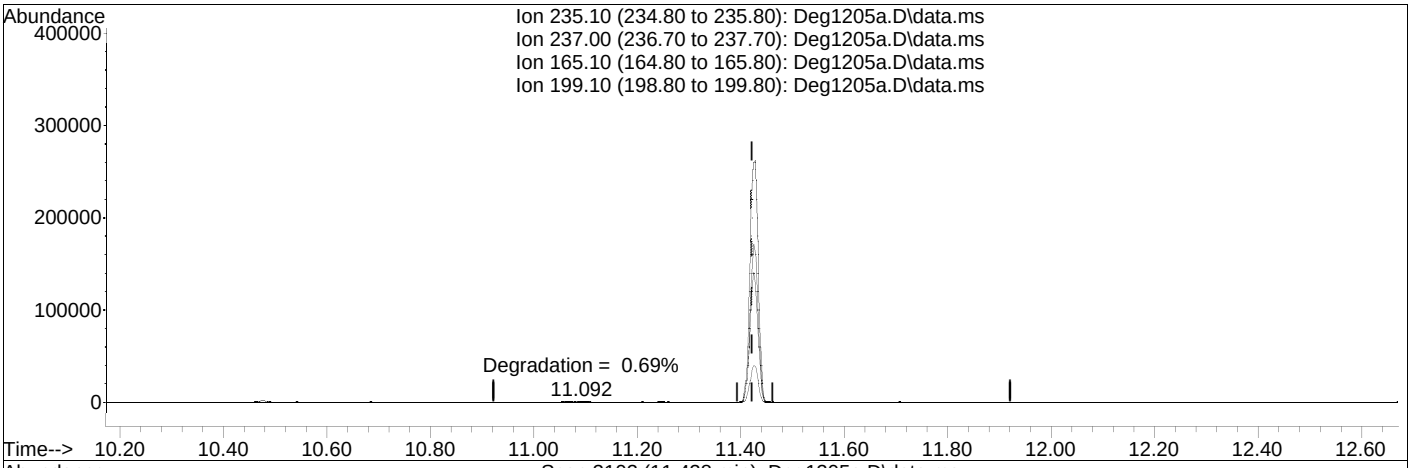
Data Path	: I:\8270\SV109\181205\	QMethod	: FS1801003nSV109.m
Data File	: ABN1205a.D	Operator	: sv109:jg
Date Inj'd	: 12/5/2018 2:22 pm	Instrument	: SV109
Sample	: wg1185944-3,32,,ABN CCV Lo	Quant Date	: 12/5/2018 2:42 pm

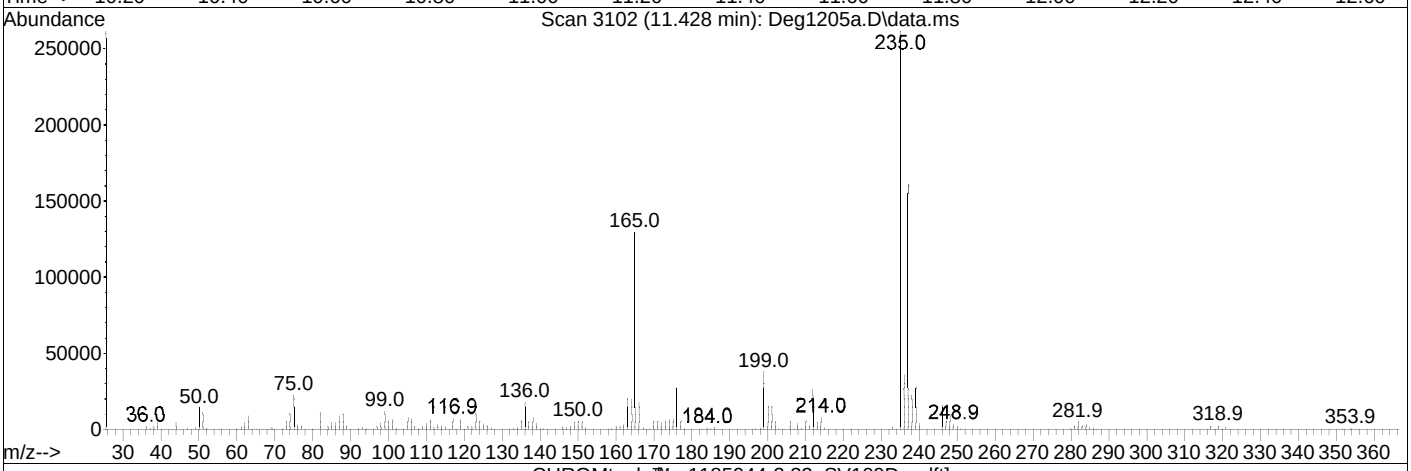
There are no manual integrations or false positives in this file.

Quantitation Report (Qedit)

Data Path : I:\8270\SV109\181205\
Data File : Deg1205a.D
Acq On : 5 Dec 2018 12:41 pm
Operator : sv109:jg
Sample : wg1185944-2,32,,SV109Degdft
Misc : wg1185944,,ical15112
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Dec 05 13:01:10 2018
Quant Method : I:\8270\SV109\181205\dftppsv109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 04 22:33:56 2018
Response via : Initial Calibration





CHROMtools [wg1185944-2,32,,SV109Degdft]

(6) ddt (T)

11.428min (+ 0.006) 44.90

response 273671

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	61.00	64.46
165.10	49.10	52.45
199.10	14.80	15.19

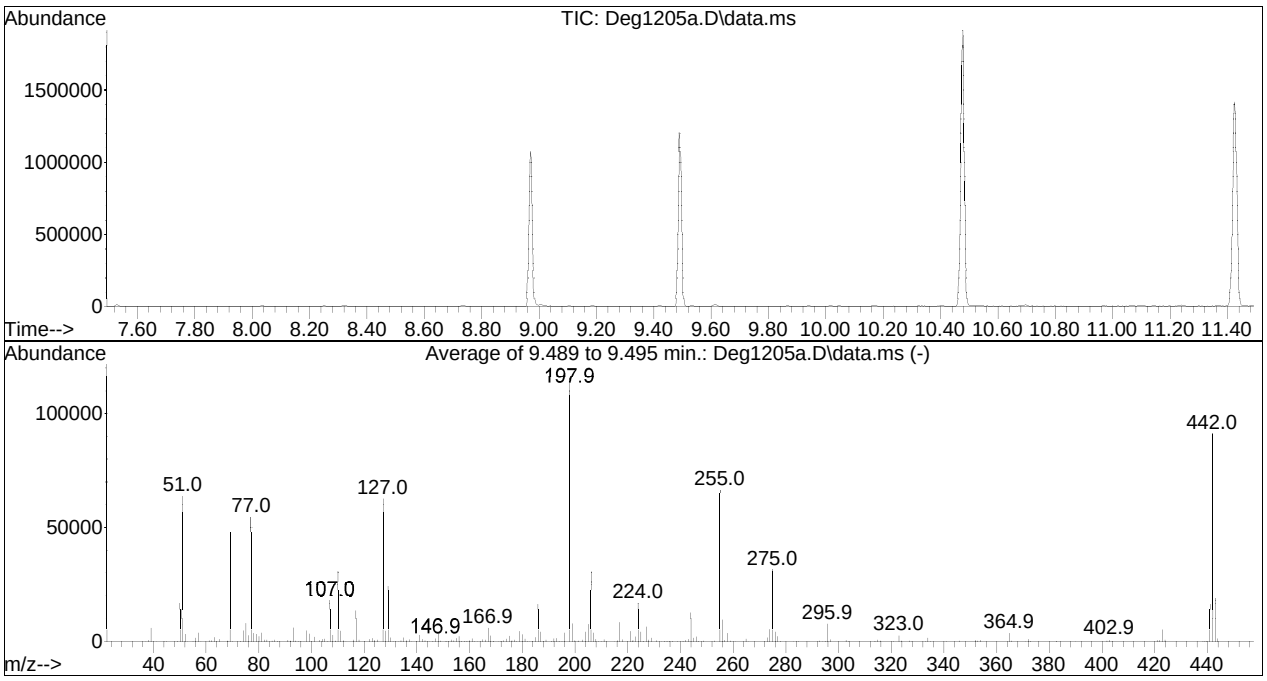
Duplicate Retention Times

(5) DDD 235.00

Data Path : I:\8270\SV109\181205\
Data File : Deg1205a.D
Acq On : 5 Dec 2018 12:41 pm
Operator : sv109:jg
Sample : wg1185944-1,32,,SV109Degdft
Misc : wg1185944,,ical15112
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV109\181205\FS1801003nSV109.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Wed Dec 05 20:09:16 2018



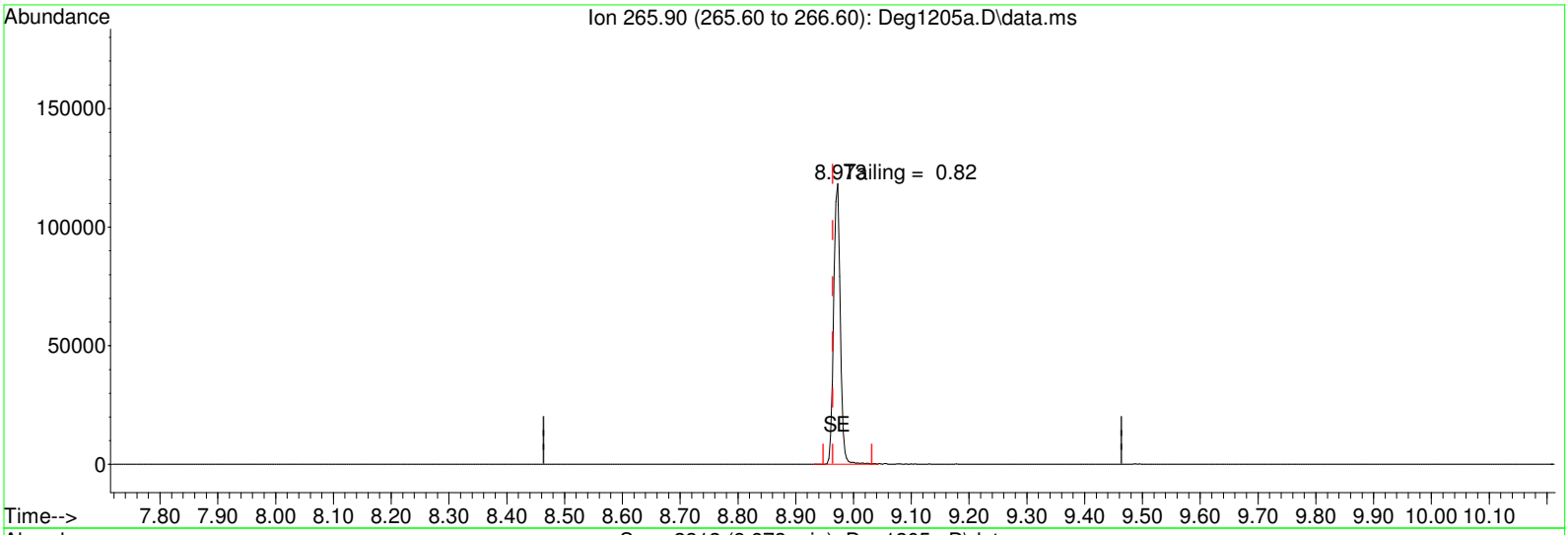
Spectrum Information: Average of 9.489 to 9.495 min.

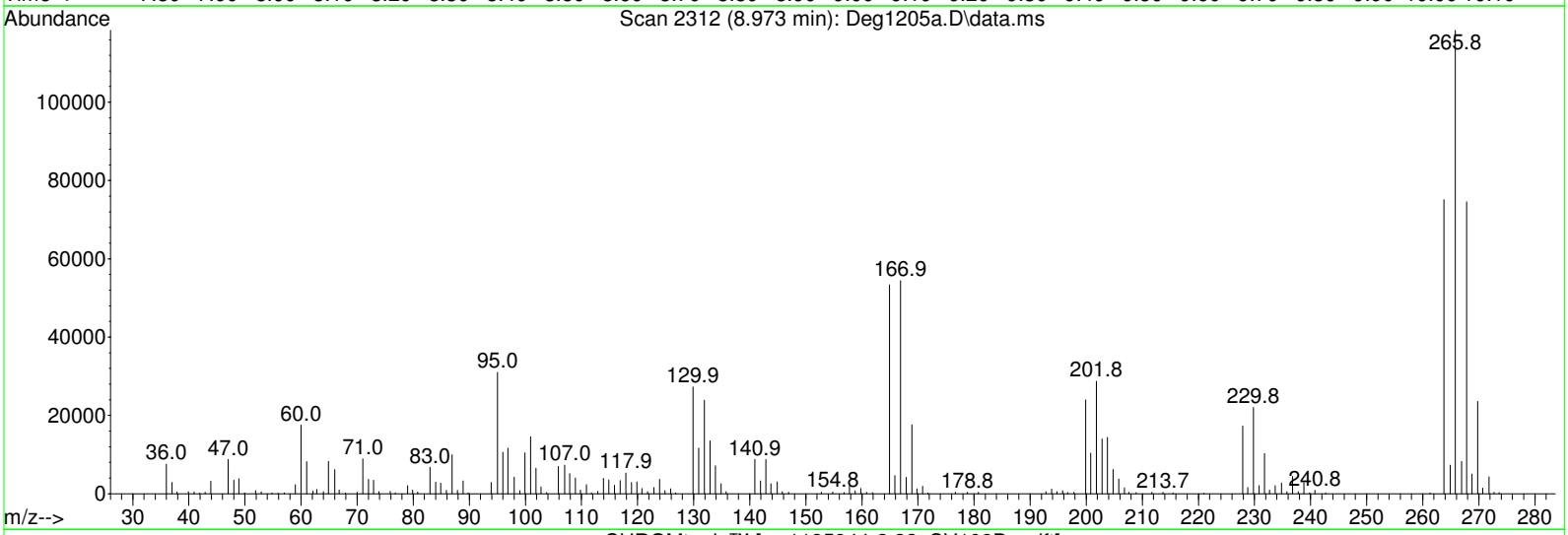
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	55.1	63843	PASS
68	69	0.00	2	1.3	612	PASS
70	69	0.00	2	0.7	353	PASS
127	198	10	80	54.2	62717	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	115808	PASS
199	198	5	9	6.8	7852	PASS
275	198	10	60	27.2	31461	PASS
365	198	1	100	3.3	3776	PASS
441	442	0.01	24	17.6	15997	PASS
442	198	50	100	78.7	91123	PASS
443	442	15	24	20.4	18606	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV109\181205\
Data File : Deg1205a.D
Acq On : 5 Dec 2018 12:41 pm
Operator : sv109:jg
Sample : wg1185944-2,32,,SV109Degdft
Misc : wg1185944,,ical15112
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Dec 05 13:01:10 2018
Quant Method : I:\8270\SV109\181205\dftppsv109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 04 22:33:56 2018
Response via : Initial Calibration





CHROMtools™ [wg1185944-2,32,,SV109Degdft]

(1) pentachlorophenol (T)

8.973min (+ 0.009) 44.88

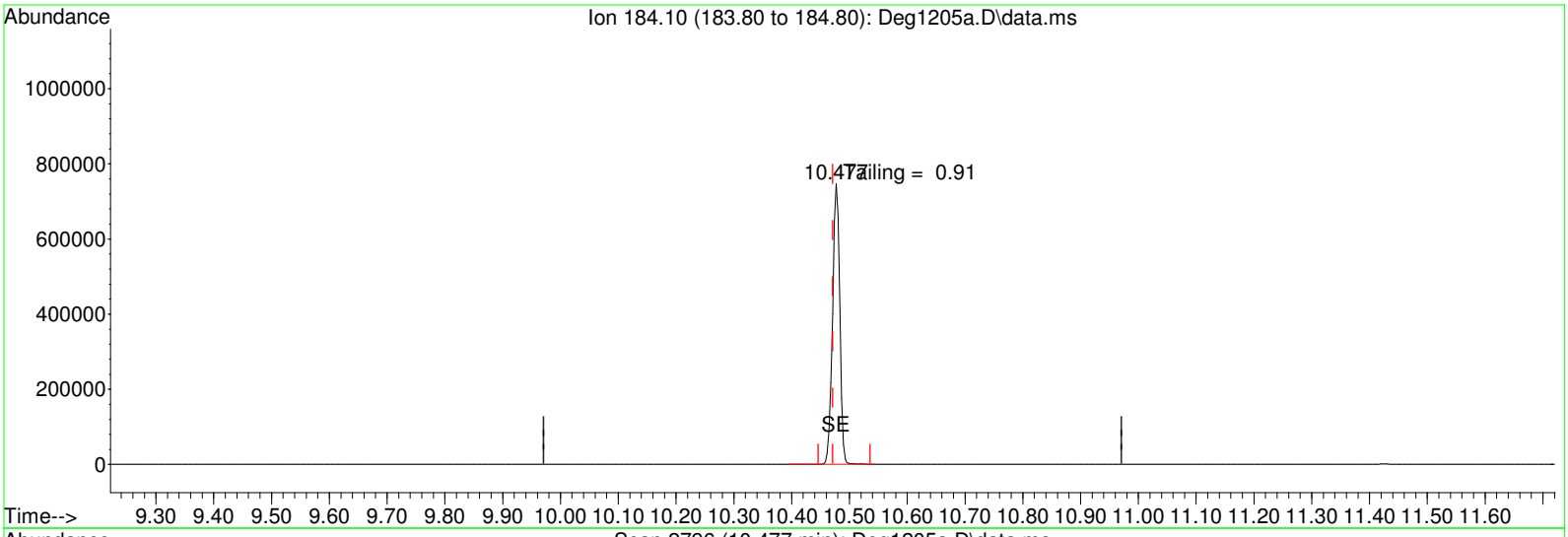
response 94263

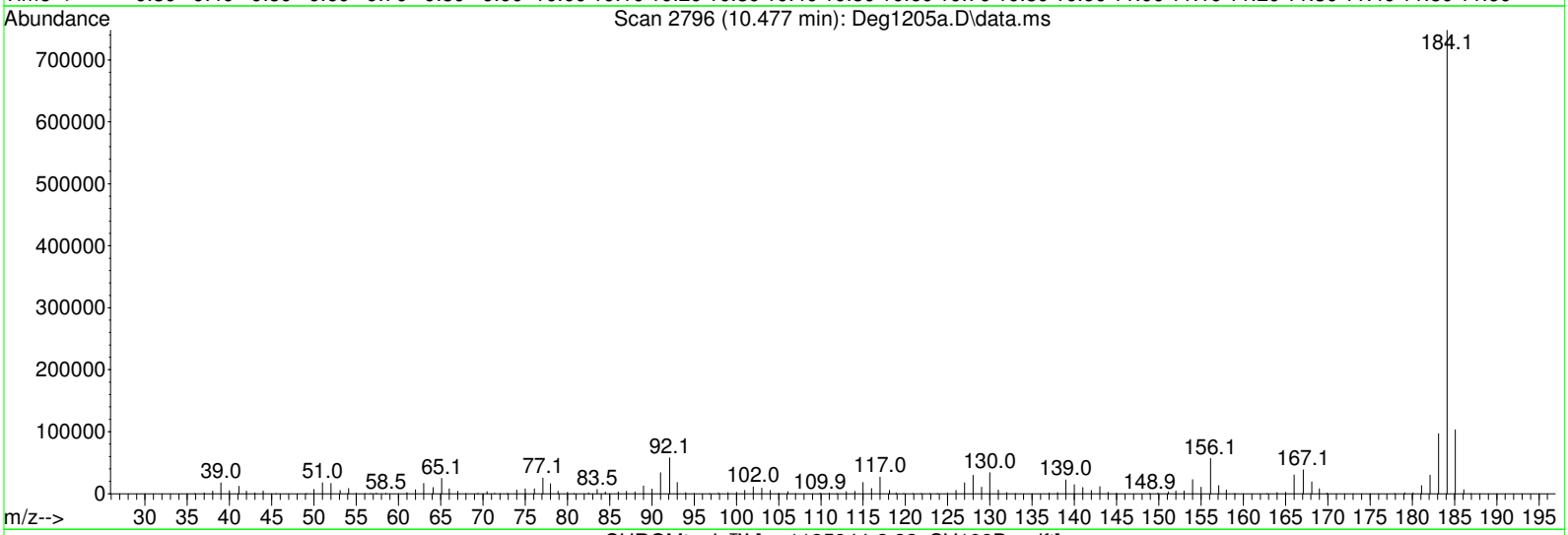
Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV109\181205\
Data File : Deg1205a.D
Acq On : 5 Dec 2018 12:41 pm
Operator : sv109:jg
Sample : wg1185944-2,32,,SV109Degdft
Misc : wg1185944,,ical15112
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Dec 05 13:01:10 2018
Quant Method : I:\8270\SV109\181205\dftppsv109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Dec 04 22:33:56 2018
Response via : Initial Calibration





CHROMtools™ [wg1185944-2,32,,SV109Degdft]

(3) benzidine (T)

10.477min (+ 0.006) 63.51

response 646546

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV112\181206\
Data File : ABN1206.D
Acq On : 06 Dec 2018 03:16 pm
Operator : sv112:jg
Sample : wg1186484-3,32,,ABN CCV
Misc : wg1186484,,ical15308
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Dec 06 15:52:00 2018
Quant Method : I:\8270\SV112\181206\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 15:50:44 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	IS1_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	104	0.00
2	t	n-Nitrosodimethylamine		0.931	0.876	5.9	98	0.00
3	t	Pyridine		1.597	1.569	1.8	102	0.00
4	S	2-Fluorophenol		1.406	1.325	5.8	98	0.00
5	T	Aniline		2.267	2.161	4.7	99	0.00
6	t	2-Chlorophenol		1.497	1.446	3.4	100	0.00
7	S	Phenol-d6		1.707	1.626	4.7	99	0.00
8	T	Phenol		1.987	1.907	4.0	100	0.00
9	T	Bis(2-chloroethyl)ether		1.434	1.346	6.1	101	0.00
10	T	1,3-Dichlorobenzene		1.640	1.590	3.0	103	0.00
11	T	1,4-Dichlorobenzene		1.671	1.610	3.7	103	0.00
12	T	1,2-Dichlorobenzene		1.599	1.542	3.6	104	0.00
13	t	Benzyl alcohol		1.137	1.088	4.3	96	0.00
14	T	Bis(2-chloroisopropyl)ether		2.014	1.817	9.8	97	0.00
15	T	2-Methylphenol		1.334	1.320	1.0	102	0.00
16	T	Hexachloroethane		0.620	0.591	4.7	100	0.00
17	T	n-Nitrosodi-n-propylamine		1.005	0.940	6.5	96	0.00
18	T	3-Methylphenol/4-Methylphen		1.399	1.372	1.9	100	0.00
19	S	Nitrobenzene-d5		1.487	1.398	6.0	98	0.00
20	T	Nitrobenzene		1.521	1.450	4.7	98	0.00
21	T	Isophorone		2.675	2.602	2.7	98	0.00
22	T	2-Nitrophenol		0.726	0.670	7.7	94	0.00
23	T	2,4-Dimethylphenol		1.404	1.374	2.1	100	0.00
24	T	Bis(2-chloroethoxy)methane		1.781	1.724	3.2	101	0.00
25	T	2,4-Dichlorophenol		1.165	1.168	-0.3	102	0.00
26	T	1,2,4-Trichlorobenzene		1.279	1.266	1.0	105	0.00
34	I	IS1_Naphthalene-d8		1.000	1.000	0.0	103	0.00
35	T	Naphthalene		1.082	1.041	3.8	103	0.00
36	T	Benzoic Acid	*	50.000	41.154	17.7	82	0.00
37	T	4-Chloroaniline		0.130	0.122	6.2	97	0.00
38	T	Hexachlorobutadiene		0.162	0.161	0.6	106	0.00
39	T	p-Chloro-m-cresol		0.297	0.289	2.7	99	0.00
40	T	2-Methylnaphthalene		0.703	0.692	1.6	104	0.00
41	T	1-Methylnaphthalene		0.240	0.231	3.7	103	0.00
42	T	Hexachlorocyclopentadiene		0.185	0.178	3.8	99	0.00
43	T	2,4,6-Trichlorophenol		0.185	0.188	-1.6	99	0.00
44	T	2,4,5-Trichlorophenol		0.202	0.203	-0.5	102	0.00
45	S	2-Fluorobiphenyl		0.731	0.727	0.5	104	0.00

Data Path : I:\8270\SV112\181206\
Data File : ABN1206.D
Acq On : 06 Dec 2018 03:16 pm
Operator : sv112:jg
Sample : wg1186484-3,32,,ABN CCV
Misc : wg1186484,,ical15308
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Dec 06 15:52:00 2018
Quant Method : I:\8270\SV112\181206\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 15:50:44 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
46	T	2-Chloronaphthalene		0.629	0.627	0.3	103	0.00
47	T	2-Nitroaniline		0.211	0.203	3.8	96	0.00
48	T	1,4-Dinitrobenzene		0.093	0.087	6.5	96	0.00
49	T	1,3-Dinitrobenzene		0.102	0.103	-1.0	100	0.00
50	T	Dimethyl phthalate		0.721	0.729	-1.1	102	0.00
51	T	Acenaphthylene		1.000	1.021	-2.1	102	0.00
52	T	2,6-Dinitrotoluene		0.147	0.153	-4.1	101	0.00
53	T	1,2-Dinitrobenzene		0.064	0.067	-4.7	100	0.00
62	I	IS1_Acenaphthene-d10		1.000	1.000	0.0	104	0.00
63	T	3-Nitroaniline		0.381	0.374	1.8	99	0.00
64	T	Acenaphthene		1.176	1.134	3.6	104	0.00
65	T	2,4-Dinitrophenol	*	50.000	39.867	20.3#	83	0.00
66	T	Dibenzofuran		1.791	1.731	3.4	103	0.00
67	T	2,4-Dinitrotoluene		0.381	0.403	-5.8	100	0.00
68	T	4-Nitrophenol		0.288	0.262	9.0	93	0.00
69	T	2,3,5,6-Tetrachlorophenol		0.310	0.302	2.6	100	0.00
70	T	2,3,4,6-Tetrachlorophenol		0.315	0.314	0.3	102	0.00
71	T	Diethyl phthalate		1.474	1.449	1.7	100	0.00
72	T	Fluorene		1.370	1.339	2.3	102	0.00
73	T	4-Chlorophenyl phenyl ether		0.642	0.621	3.3	103	0.00
74	T	4-Nitroaniline		0.375	0.367	2.1	99	0.00
75	T	4,6-Dinitro-o-cresol	*	50.000	43.198	13.6	90	0.00
76	T	NDPA/DPA		1.184	1.164	1.7	101	0.00
77	T	Azobenzene		1.407	1.349	4.1	98	0.00
78	S	2,4,6-Tribromophenol		0.163	0.172	-5.5	102	0.00
79	T	4-Bromophenyl phenyl ether		0.347	0.334	3.7	102	0.00
80	T	Hexachlorobenzene		0.383	0.378	1.3	106	0.00
81	T	Pentachlorophenol	*	50.000	43.916	12.2	97	0.00
87	I	IS1_Phenanthrene-d10		1.000	1.000	0.0	103	0.00
88	T	Phenanthrene		1.195	1.147	4.0	102	0.00
89	T	Anthracene		1.163	1.164	-0.1	103	0.00
90	T	Carbazole		1.109	1.108	0.1	101	0.00
91	T	Di-n-butylphthalate		1.282	1.355	-5.7	97	0.00
92	T	Fluoranthene		1.191	1.205	-1.2	103	0.00
93	T	Benzidine		0.817	0.790	3.3	92	0.00
94	T	Pyrene		1.259	1.270	-0.9	102	0.00
95	S	4-Terphenyl-d14		0.857	0.890	-3.9	104	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV112\181206\
Data File : ABN1206.D
Acq On : 06 Dec 2018 03:16 pm
Operator : sv112:jg
Sample : wg1186484-3,32,,ABN CCV
Misc : wg1186484,,ical15308
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Dec 06 15:52:00 2018
Quant Method : I:\8270\SV112\181206\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 15:50:44 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
96	T	Butyl benzyl phthalate		0.600	0.569	5.2	92	0.00
103	I	IS1_Chrysene-d12		1.000	1.000	0.0	104	0.00
104	T	Benzo(a)anthracene		1.281	1.269	0.9	103	0.00
105	T	3,3'-Dichlorobenzidine		0.467	0.461	1.3	98	0.00
106	T	Chrysene		1.238	1.185	4.3	104	0.00
107	T	Bis(2-ethylhexyl)phthalate	*	50.000	45.836	8.3	98	0.00
108	T	Di-n-octylphthalate	*	50.000	42.212	15.6	91	0.00
109	T	Benzo(b)fluoranthene		1.139	1.199	-5.3	106	0.00
110	T	Benzo(k)fluoranthene		1.176	1.188	-1.0	102	0.00
111	T	Benzo(a)pyrene		1.110	1.141	-2.8	102	0.00
112	I	IS1_Perylene-d12		1.000	1.000	0.0	103	0.00
113	T	Indeno(1,2,3-cd)pyrene		1.078	1.092	-1.3	100	0.00
114	T	Dibenzo(a,h)anthracene		1.090	1.142	-4.8	103	0.00
115	T	Benzo(ghi)perylene		1.091	1.134	-3.9	104	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181206\
Data File : ABN1206.D
Acq On : 06 Dec 2018 03:16 pm
Operator : sv112:jg
Sample : wg1186484-3,32,,ABN CCV
Misc : wg1186484,,ical15308
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Dec 06 15:52:00 2018
Quant Method : I:\8270\SV112\181206\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 15:50:44 2018
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.783	152	160010	40.000	ug/ml	0.00
34) IS1_Naphthalene-d8	6.029	136	659812	40.000	ug/ml	0.00
62) IS1_Acenaphthene-d10	7.745	164	337355	40.000	ug/ml	0.00
87) IS1_Phenanthrene-d10	9.187	188	577618	40.000	ug/ml	0.00
103) IS1_Chrysene-d12	11.860	240	540685	40.000	ug/ml	0.00
112) IS1_Perylene-d12	13.343	264	528741	40.000	ug/ml	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	3.499	112	265034	47.118	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 94.24%			
7) Phenol-d6	4.454	99	325143	47.629	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 95.26%			
19) Nitrobenzene-d5	5.327	82	279593	46.997	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 187.99%#			
45) 2-Fluorobiphenyl	7.105	172	599907	49.738	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 198.95%#			
78) 2,4,6-Tribromophenol	8.516	330	72581	52.925	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 105.85%			
95) 4-Terphenyl-d14	10.785	244	642433	51.910	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 207.64%#			
Target Compounds						Qvalue
2) n-Nitrosodimethylamine	2.119	74	175243	47.075	ug/ml	89
3) Pyridine	2.157	79	313865	49.146	ug/ml	86
5) Aniline	4.460	93	432317	47.671	ug/ml#	57
6) 2-Chlorophenol	4.575	128	289141	48.291	ug/ml	96
8) Phenol	4.466	94	381484	48.002	ug/ml#	55
9) Bis(2-chloroethyl)ether	4.541	93	269240	46.944	ug/ml	96
10) 1,3-Dichlorobenzene	4.727	146	317946	48.472	ug/ml	98
11) 1,4-Dichlorobenzene	4.802	146	322011	48.187	ug/ml	97
12) 1,2-Dichlorobenzene	4.948	146	308459	48.221	ug/ml	97
13) Benzyl alcohol	4.932	79	217629	47.848	ug/ml	96
14) Bis(2-chloroisopropyl)...	5.081	45	363449	45.105	ug/ml#	94
15) 2-Methylphenol	5.060	108	263962	49.455	ug/ml	98
16) Hexachloroethane	5.280	117	118240	47.638	ug/ml	93
17) n-Nitrosodi-n-propylamine	5.206	70	187986	46.749	ug/ml	99
18) 3-Methylphenol/4-Methy...	5.215	108	274456	49.038	ug/ml	99
20) Nitrobenzene	5.346	77	289973	47.665	ug/ml	98
21) Isophorone	5.588	82	520358	48.630	ug/ml	98
22) 2-Nitrophenol	5.663	139	134024	46.180	ug/ml	95

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181206\
Data File : ABN1206.D
Acq On : 06 Dec 2018 03:16 pm
Operator : sv112:jg
Sample : wg1186484-3,32,,ABN CCV
Misc : wg1186484,,ical15308
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Dec 06 15:52:00 2018
Quant Method : I:\8270\SV112\181206\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 15:50:44 2018
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) 2,4-Dimethylphenol	5.734	107	274887	48.940	ug/ml	98
24) Bis(2-chloroethoxy)met...	5.824	93	344753	48.382	ug/ml	99
25) 2,4-Dichlorophenol	5.902	162	233651	50.142	ug/ml	97
26) 1,2,4-Trichlorobenzene	5.983	180	253120	49.481	ug/ml	99
35) Naphthalene	6.048	128	858289	48.089	ug/ml	100
36) Benzoic Acid	5.834	105	160853	41.154	ug/ml	97
37) 4-Chloroaniline	6.116	65	100284	46.829	ug/ml	85
38) Hexachlorobutadiene	6.197	225	132510	49.580	ug/ml	100
39) p-Chloro-m-cresol	6.611	107	238430	48.635	ug/ml	96
40) 2-Methylnaphthalene	6.732	142	570399	49.187	ug/ml	98
41) 1-Methylnaphthalene	6.828	115	190702	48.240	ug/ml	98
42) Hexachlorocyclopentadiene	6.903	237	147144	48.271	ug/ml	99
43) 2,4,6-Trichlorophenol	7.018	196	155136	50.961	ug/ml	99
44) 2,4,5-Trichlorophenol	7.046	196	167268	50.257	ug/ml	99
46) 2-Chloronaphthalene	7.201	162	517114	49.803	ug/ml	98
47) 2-Nitroaniline	7.313	138	167200	48.072	ug/ml	93
48) 1,4-Dinitrobenzene	7.447	168	71953	46.946	ug/ml	95
49) 1,3-Dinitrobenzene	7.521	168	85134	50.811	ug/ml	92
50) Dimethyl phthalate	7.515	163	601103	50.541	ug/ml	99
51) Acenaphthylene	7.605	152	841964	51.018	ug/ml	100
52) 2,6-Dinitrotoluene	7.559	165	125872	51.798	ug/ml	96
53) 1,2-Dinitrobenzene	7.602	168	55100	52.094	ug/ml#	1
63) 3-Nitroaniline	7.714	138	157869	49.092	ug/ml	94
64) Acenaphthene	7.779	154	478012	48.192	ug/ml	99
65) 2,4-Dinitrophenol	7.817	184	48472	39.867	ug/ml	98
66) Dibenzofuran	7.947	168	729929	48.313	ug/ml	98
67) 2,4-Dinitrotoluene	7.947	165	169742	52.848	ug/ml	94
68) 4-Nitrophenol	7.897	65	110474	45.468	ug/ml	94
69) 2,3,5,6-Tetrachlorophenol	8.034	232	127329	48.650	ug/ml	100
70) 2,3,4,6-Tetrachlorophenol	8.078	232	132305	49.816	ug/ml	98
71) Diethyl phthalate	8.211	149	610907	49.142	ug/ml	99
72) Fluorene	8.280	166	564818	48.895	ug/ml	100
73) 4-Chlorophenyl phenyl ...	8.298	204	261723	48.334	ug/ml	93
74) 4-Nitroaniline	8.308	138	154910	48.965	ug/ml	96
75) 4,6-Dinitro-o-cresol	8.342	198	69902	43.198	ug/ml	90
76) NDPA/DPA	8.413	169	490970	49.175	ug/ml	99
77) Azobenzene	8.451	77	568939	47.952	ug/ml	98
79) 4-Bromophenyl phenyl e...	8.771	248	140819	48.170	ug/ml	98
80) Hexachlorobenzene	8.824	284	159349	49.307	ug/ml	99
81) Pentachlorophenol	9.016	266	90617	43.916	ug/ml	99
88) Phenanthrene	9.212	178	828514	47.997	ug/ml	99

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181206\
Data File : ABN1206.D
Acq On : 06 Dec 2018 03:16 pm
Operator : sv112:jg
Sample : wg1186484-3,32,,ABN CCV
Misc : wg1186484,,ical15308
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Dec 06 15:52:00 2018
Quant Method : I:\8270\SV112\181206\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 15:50:44 2018
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
89) Anthracene	9.262	178	840765	50.042	ug/ml	100
90) Carbazole	9.427	167	799695	49.921	ug/ml	100
91) Di-n-butylphthalate	9.815	149	978199	52.834	ug/ml	100
92) Fluoranthene	10.375	202	870211	50.610	ug/ml	99
93) Benzidine	10.527	184	570156	48.302	ug/ml	98
94) Pyrene	10.595	202	916624	50.405	ug/ml	99
96) Butyl benzyl phthalate	11.316	149	411071	47.473	ug/ml	97
104) Benzo(a)anthracene	11.848	228	857382	49.517	ug/ml	99
105) 3,3'-Dichlorobenzidine	11.845	252	311812	49.379	ug/ml	100
106) Chrysene	11.885	228	801142	47.864	ug/ml	99
107) Bis(2-ethylhexyl)phtha...	11.963	149	642197	45.836	ug/ml	98
108) Di-n-octylphthalate	12.650	149	1007509	42.212	ug/ml	96
109) Benzo(b)fluoranthene	12.967	252	810199	52.604	ug/ml	99
110) Benzo(k)fluoranthene	12.995	252	803086	50.505	ug/ml	99
111) Benzo(a)pyrene	13.287	252	771337	51.411	ug/ml	99
113) Indeno(1,2,3-cd)pyrene	14.362	276	721416M6	50.607	ug/mL	
114) Dibenzo(a,h)anthracene	14.390	278	754968	52.383	ug/ml	99
115) Benzo(ghi)perylene	14.636	276	749292	51.965	ug/ml	93

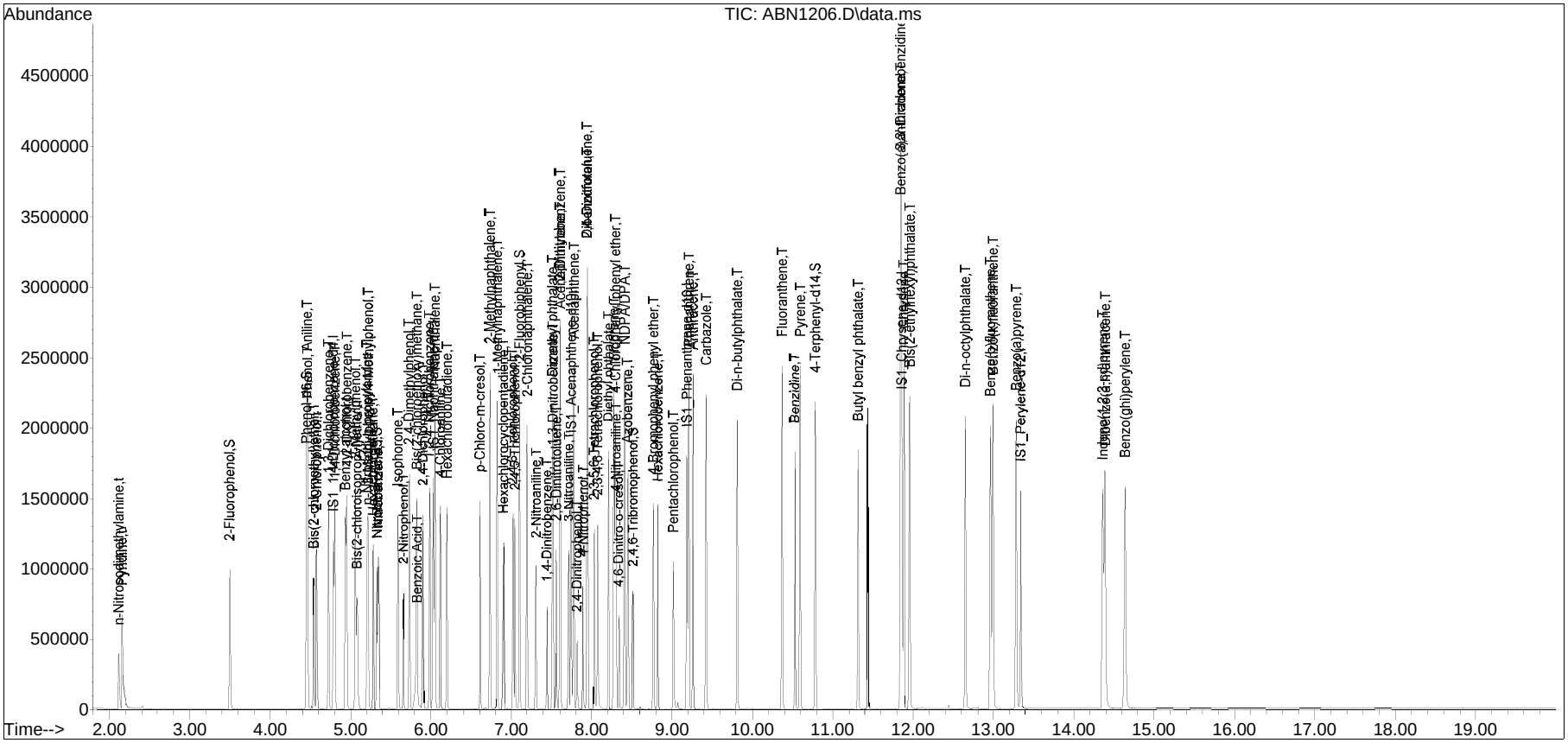
(#) = qualifier out of range (m) = manual integration (+) = signals summed

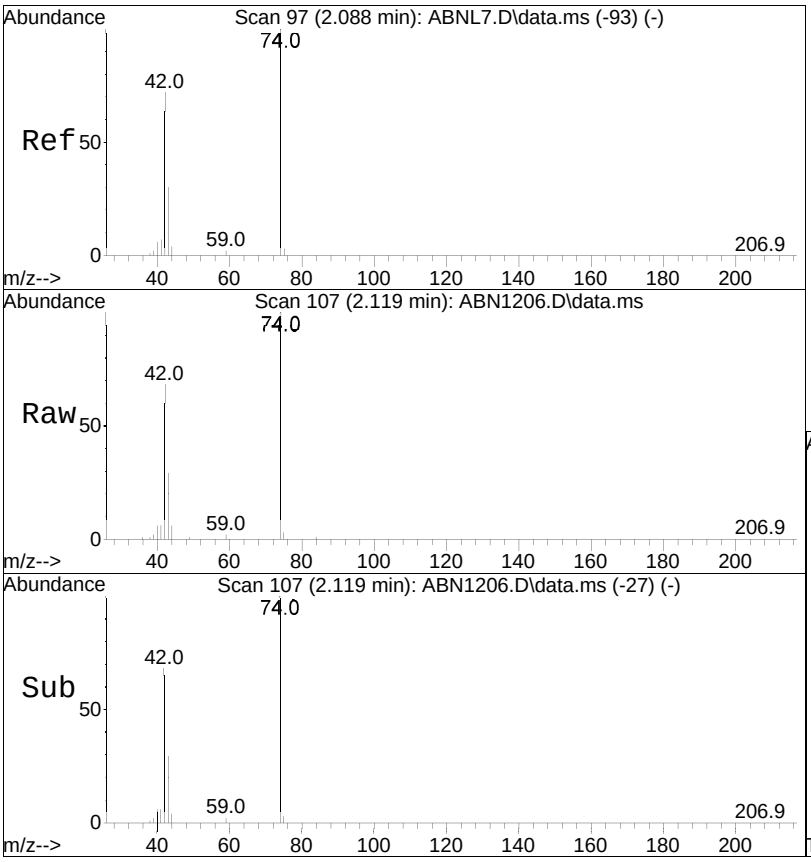
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181206\
Data File : ABN1206.D
Acq On : 06 Dec 2018 03:16 pm
Operator : sv112:jg
Sample : wg1186484-3,32,,ABN CCV
Misc : wg1186484,,ical15308
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Dec 06 15:52:00 2018
Quant Method : I:\8270\SV112\181206\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 15:50:44 2018
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

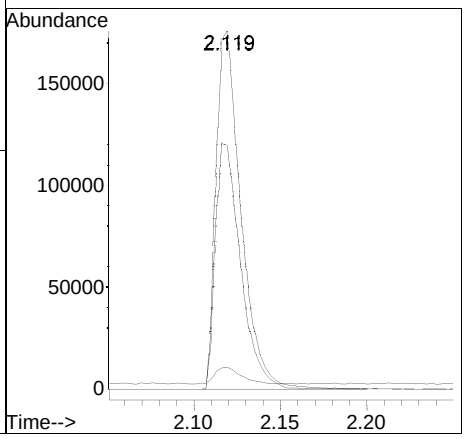


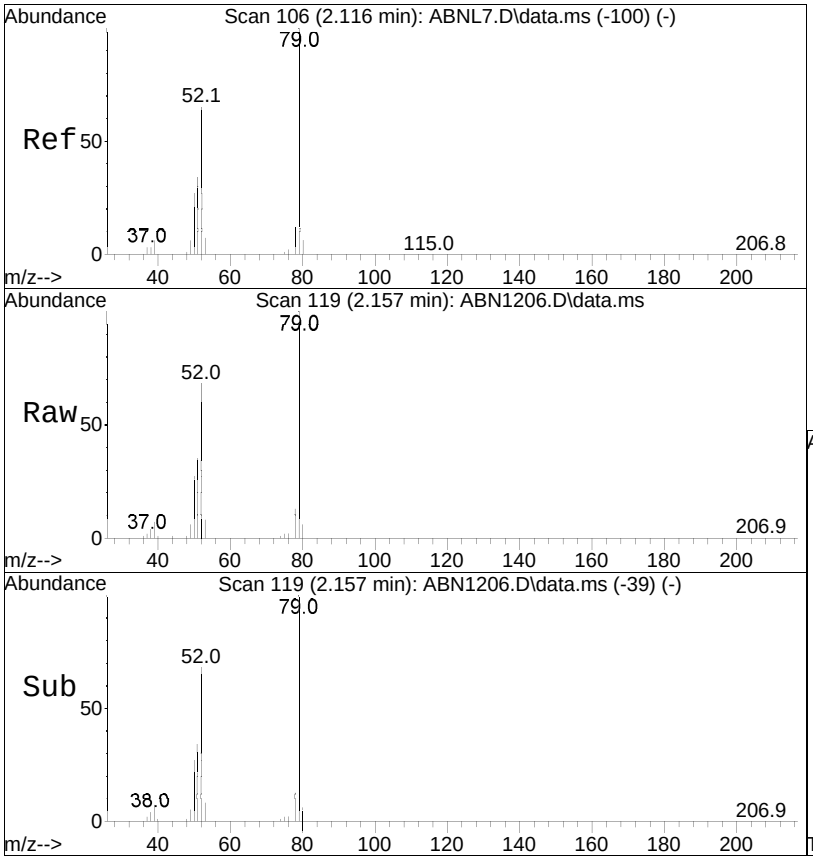


#2
n-Nitrosodimethylamine
Concen: 47.07 ug/ml
RT: 2.119 min Scan# 107
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion: 74 Resp: 175243

Ion	Ratio	Lower	Upper
74	100		
42	69.2	63.8	95.8
44	5.0	4.3	6.5

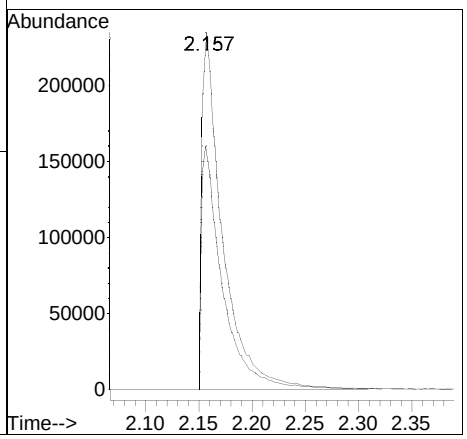


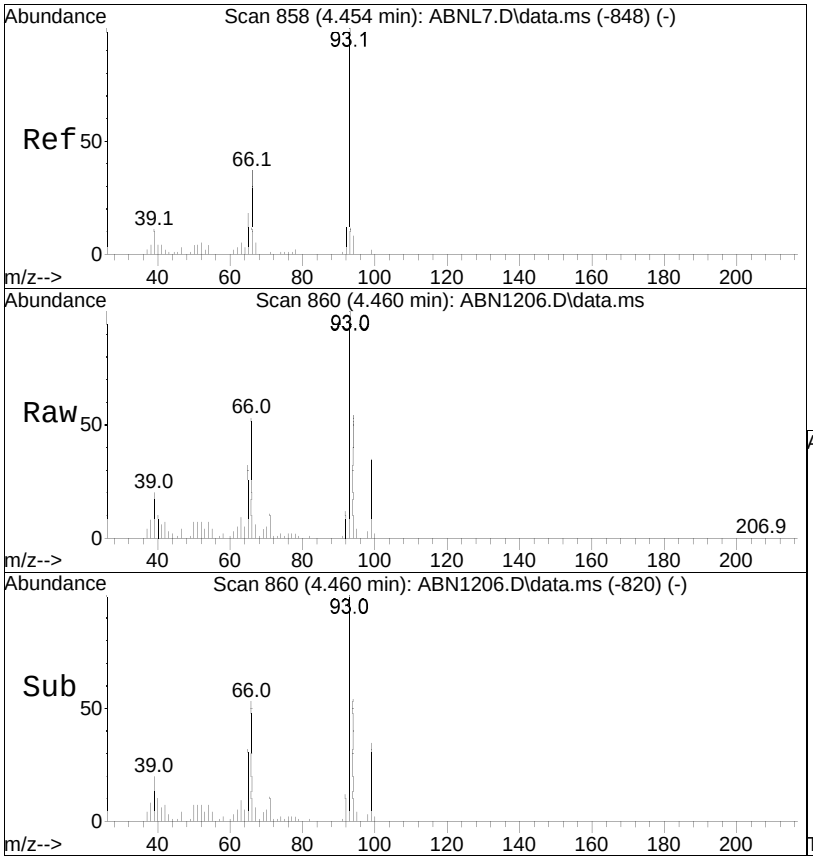


#3
Pyridine
Concen: 49.15 ug/ml
RT: 2.157 min Scan# 119
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion: 79 Resp: 313865

Ion	Ratio	Lower	Upper
79	100		
52	68.6	64.6	96.8

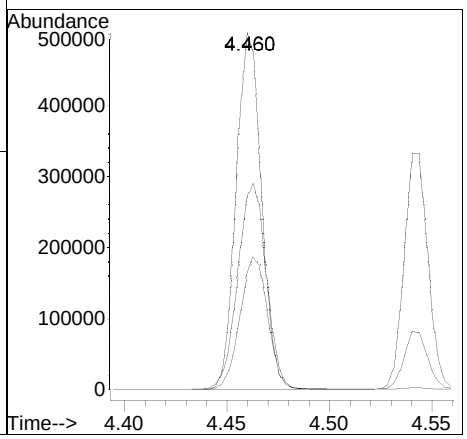


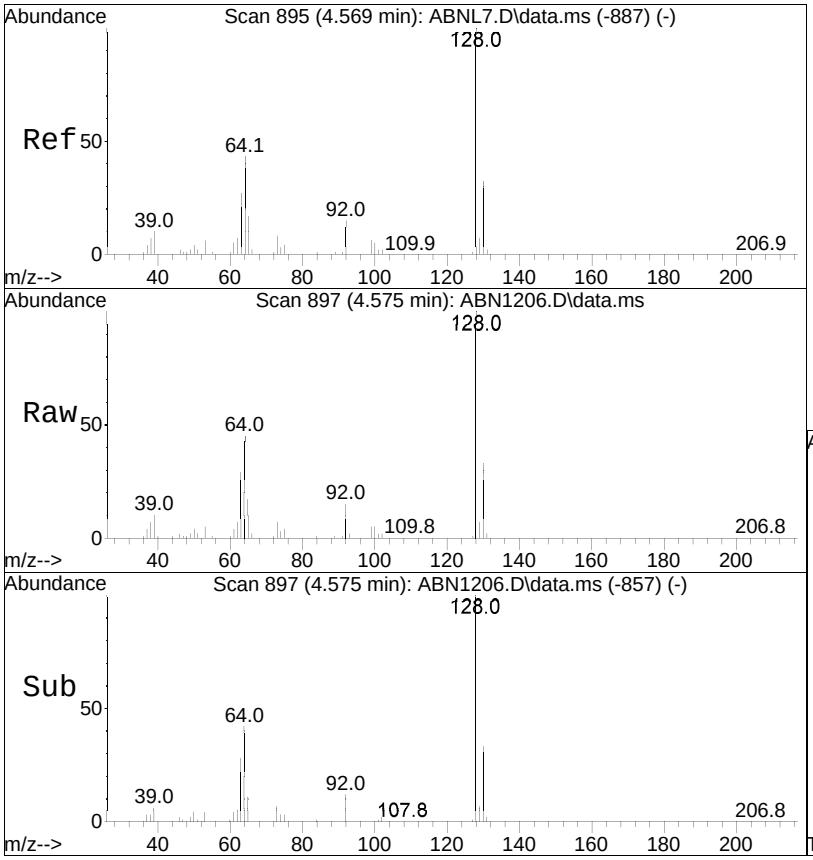


#5
Aniline
Concen: 47.67 ug/ml
RT: 4.460 min Scan# 860
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion: 93 Resp: 432317

Ion	Ratio	Lower	Upper
93	100		
66	65.2	31.3	46.9#
65	40.7	16.6	25.0#

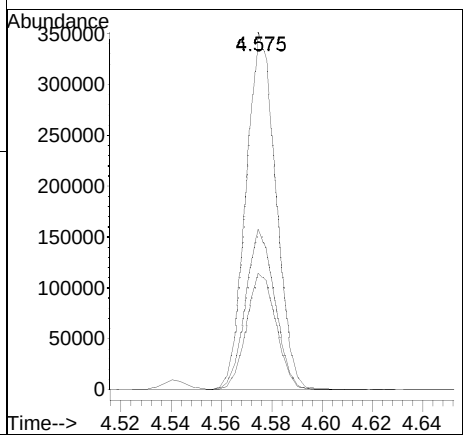


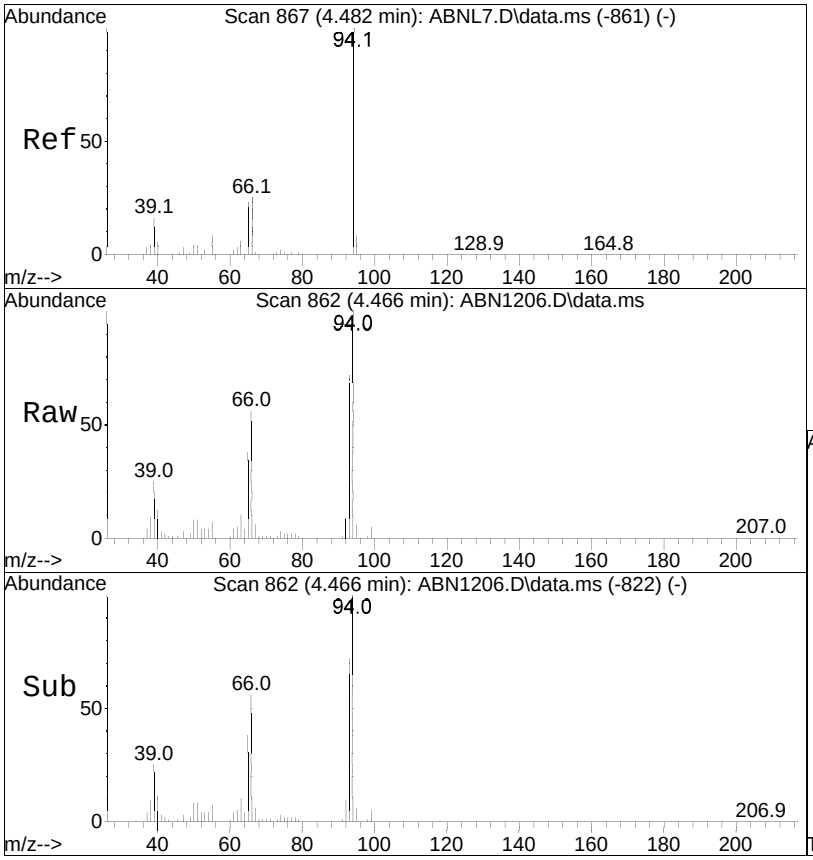


#6
2-Chlorophenol
Concen: 48.29 ug/ml
RT: 4.575 min Scan# 897
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion:128 Resp: 289141

Ion	Ratio	Lower	Upper
128	100		
64	43.9	38.2	57.4
130	32.5	26.2	39.2

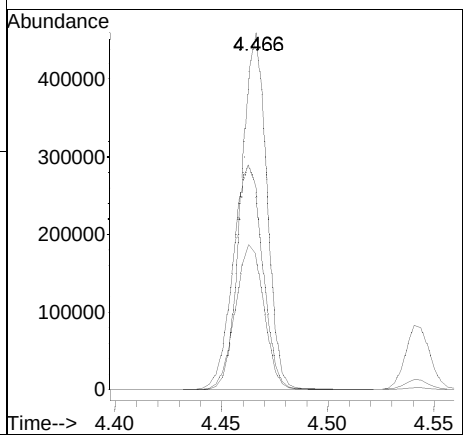


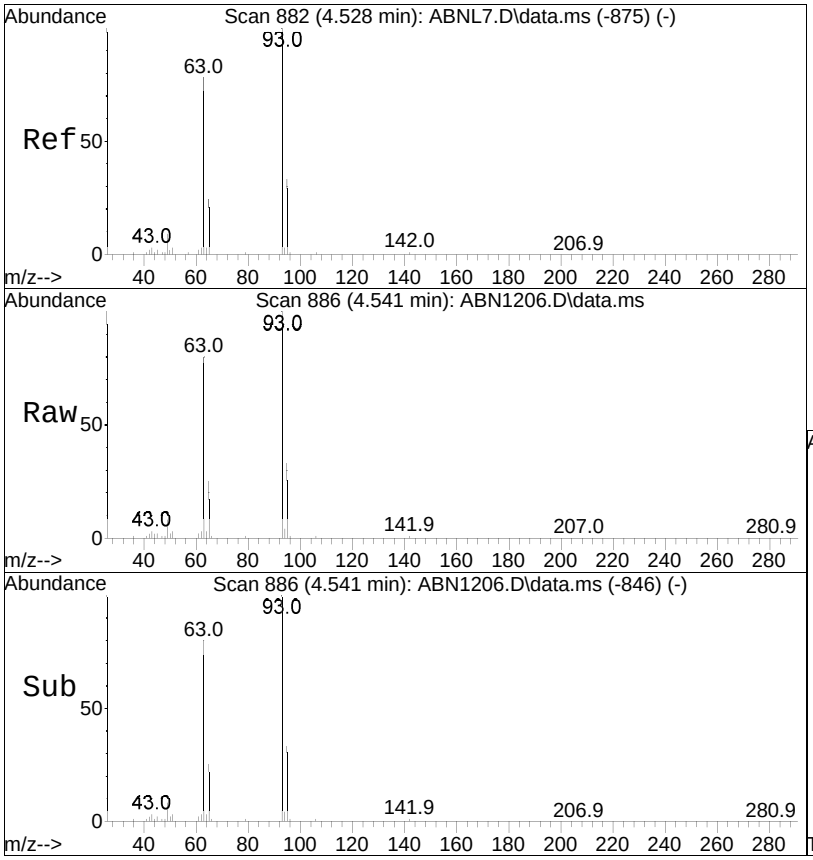


#8
Phenol
Concen: 48.00 ug/ml
RT: 4.466 min Scan# 862
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion: 94 Resp: 381484

Ion	Ratio	Lower	Upper
94	100		
65	46.1	23.0	34.6#
66	73.8	32.1	48.1#

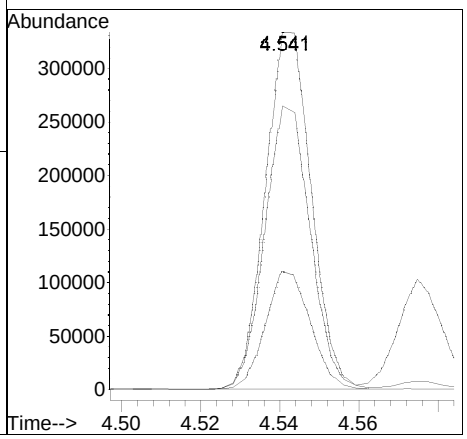


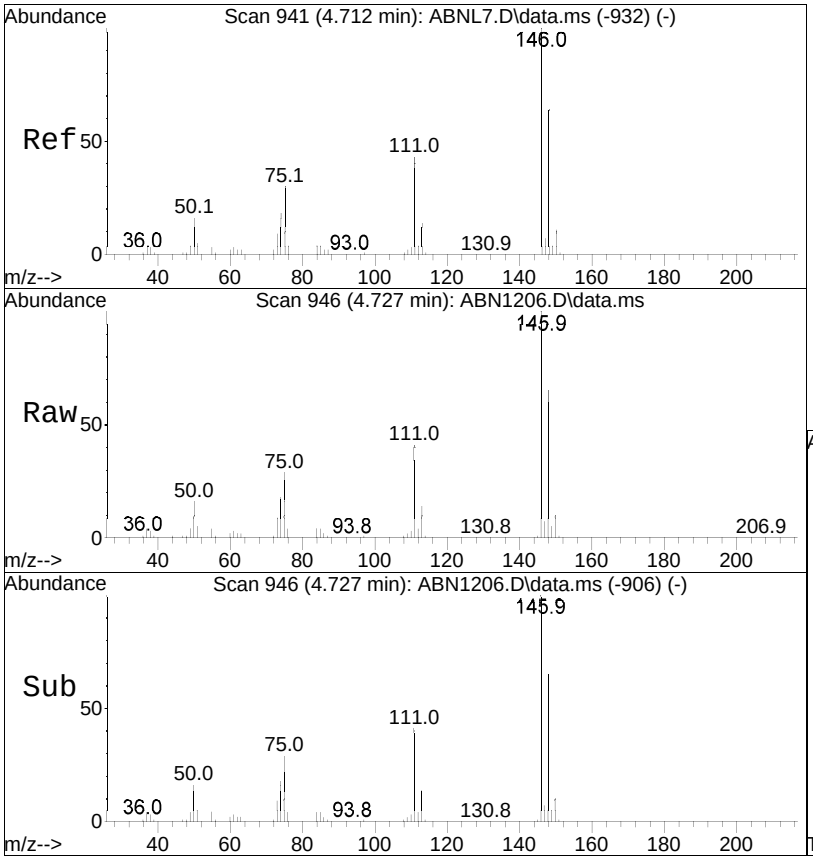


#9
Bis(2-chloroethyl)ether
Concen: 46.94 ug/ml
RT: 4.541 min Scan# 886
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion: 93 Resp: 269240

Ion	Ratio	Lower	Upper
93	100		
63	78.6	67.0	100.4
95	32.6	26.1	39.1

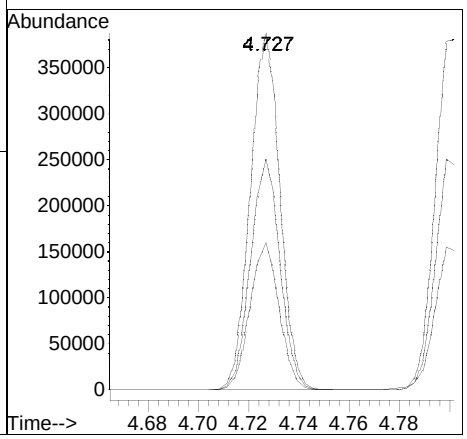


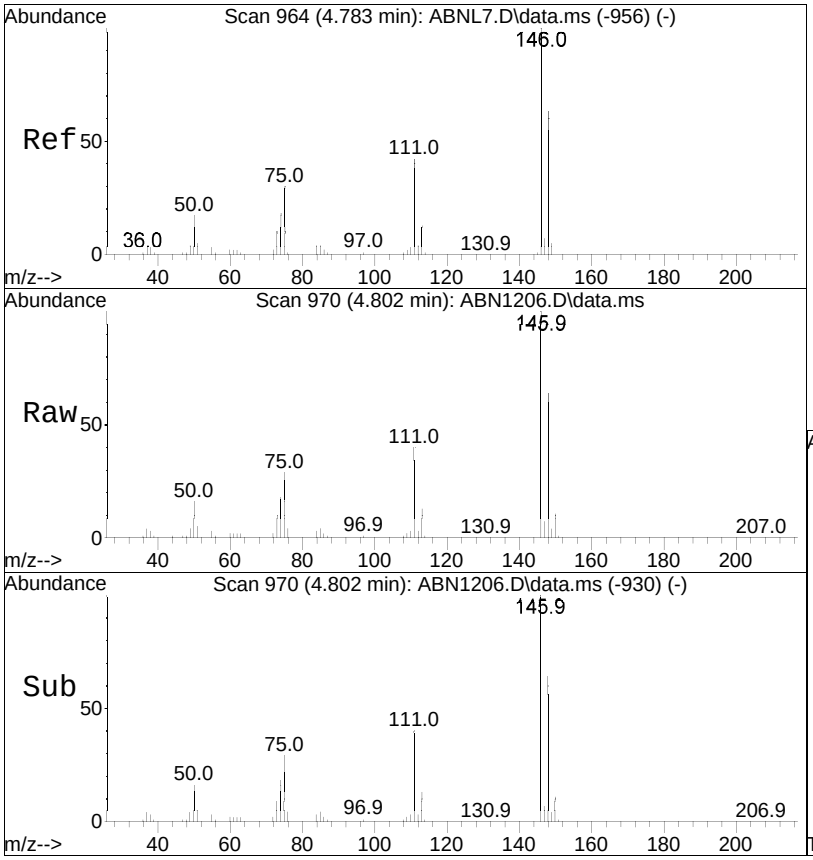


#10
1,3-Dichlorobenzene
Concen: 48.47 ug/ml
RT: 4.727 min Scan# 946
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion:146 Resp: 317946

Ion	Ratio	Lower	Upper
146	100		
111	40.8	35.0	52.4
148	64.2	51.3	76.9

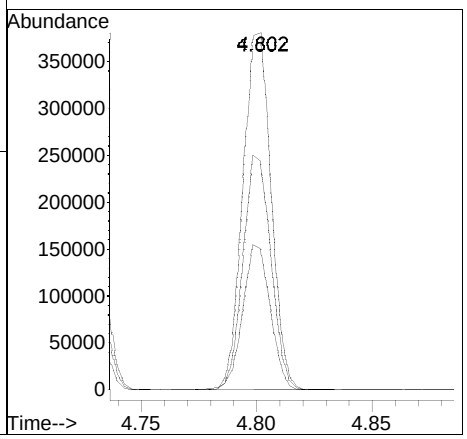


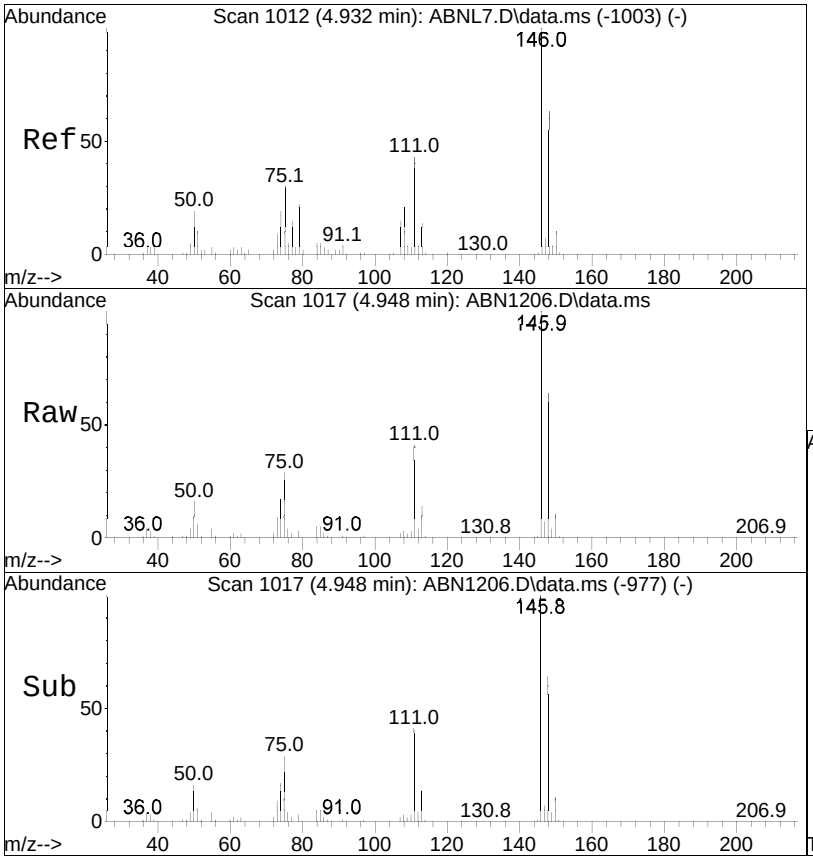


#11
1,4-Dichlorobenzene
Concen: 48.19 ug/ml
RT: 4.802 min Scan# 970
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion:146 Resp: 322011

Ion	Ratio	Lower	Upper
146	100		
148	65.1	51.1	76.7
111	40.3	34.4	51.6

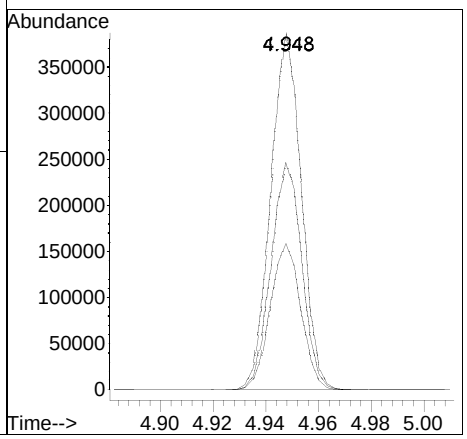


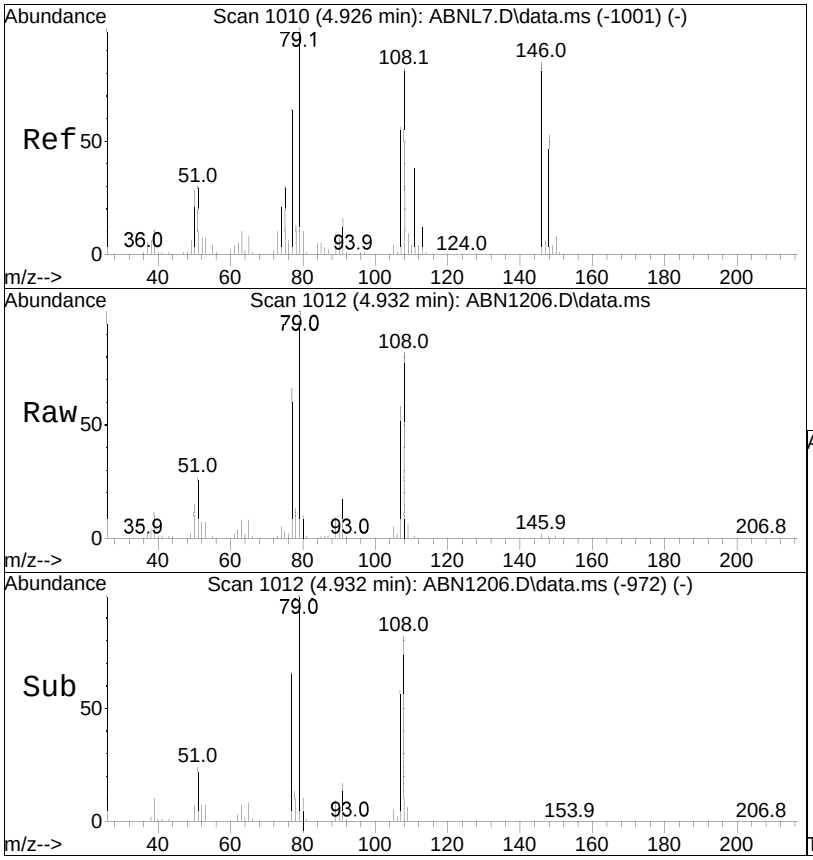


#12
1,2-Dichlorobenzene
Concen: 48.22 ug/ml
RT: 4.948 min Scan# 1017
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion:146 Resp: 308459

Ion	Ratio	Lower	Upper
146	100		
111	41.4	35.5	53.3
148	64.3	50.6	76.0

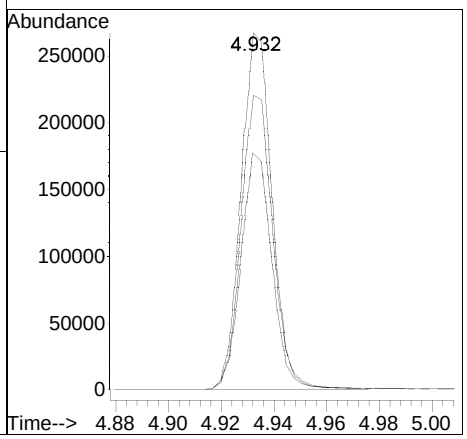


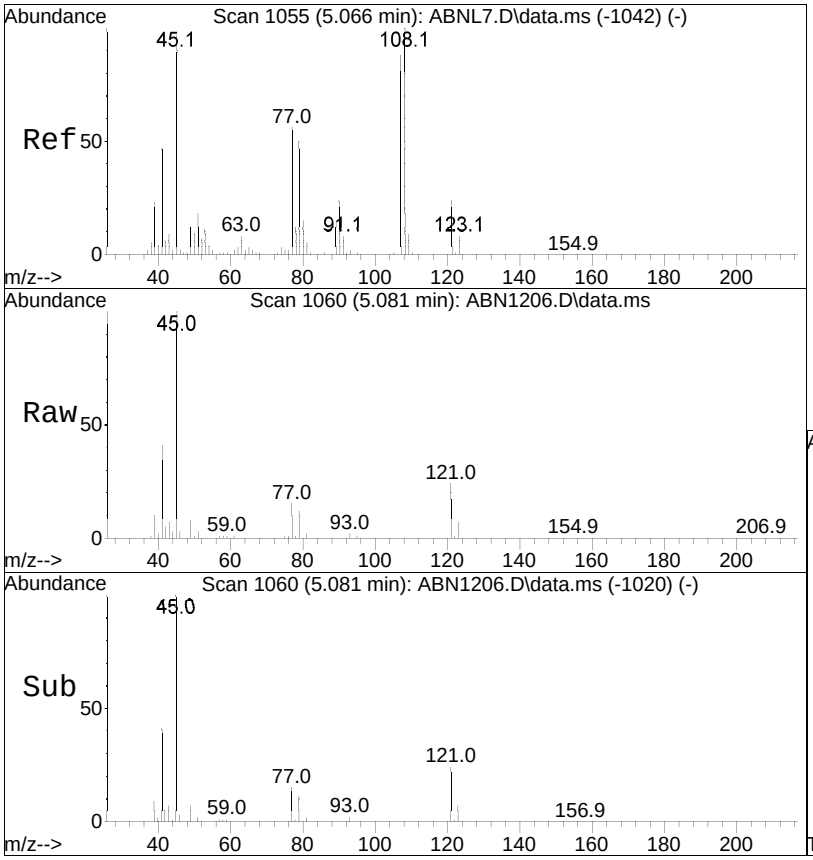


#13
Benzyl alcohol
Concen: 47.85 ug/ml
RT: 4.932 min Scan# 1012
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion: 79 Resp: 217629

Ion	Ratio	Lower	Upper
79	100		
77	66.7	51.8	77.6
108	84.5	63.9	95.9

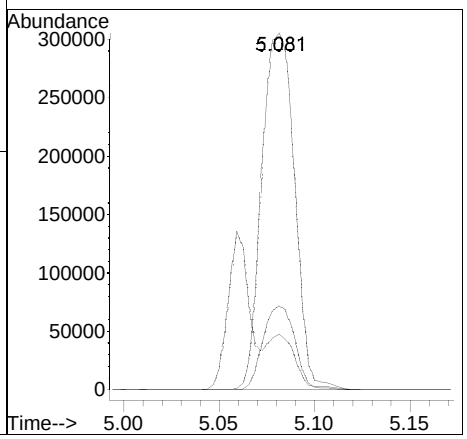


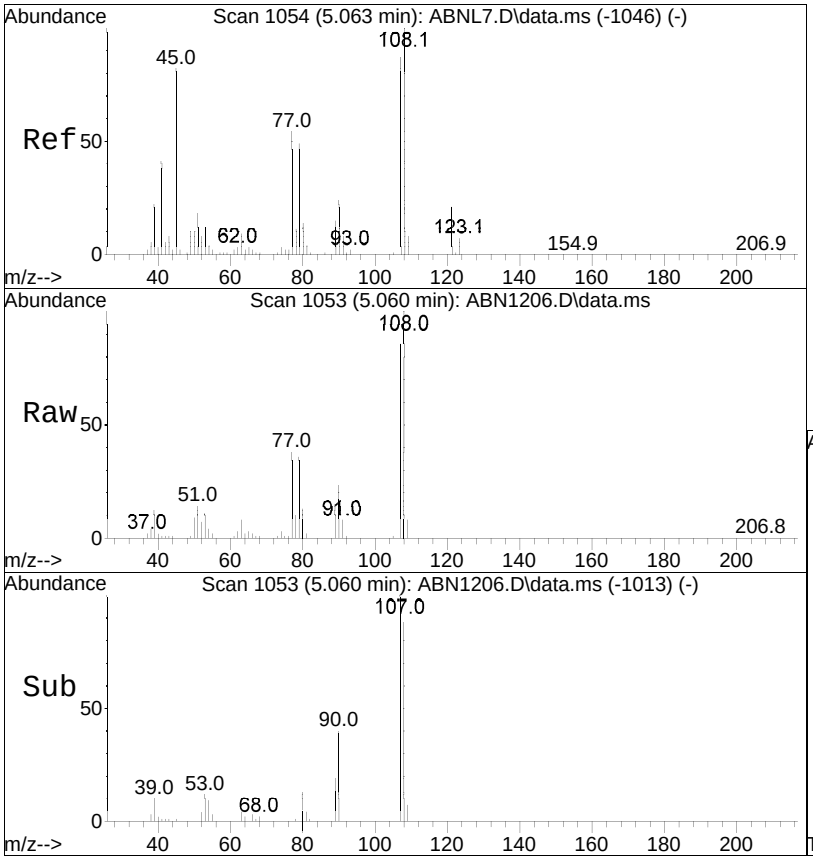


#14
Bis(2-chloroisopropyl)ether
Concen: 45.11 ug/ml
RT: 5.081 min Scan# 1060
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion: 45 Resp: 363449

Ion	Ratio	Lower	Upper
45	100		
121	22.9	14.8	22.2#
77	13.4	10.5	15.7

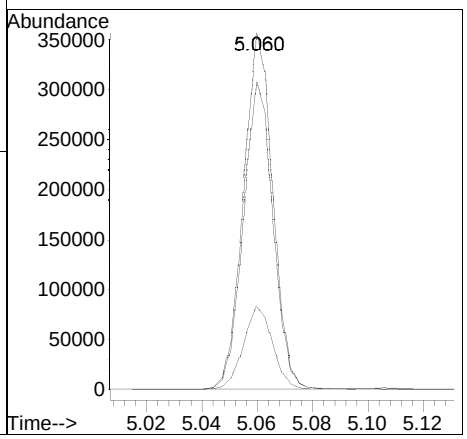


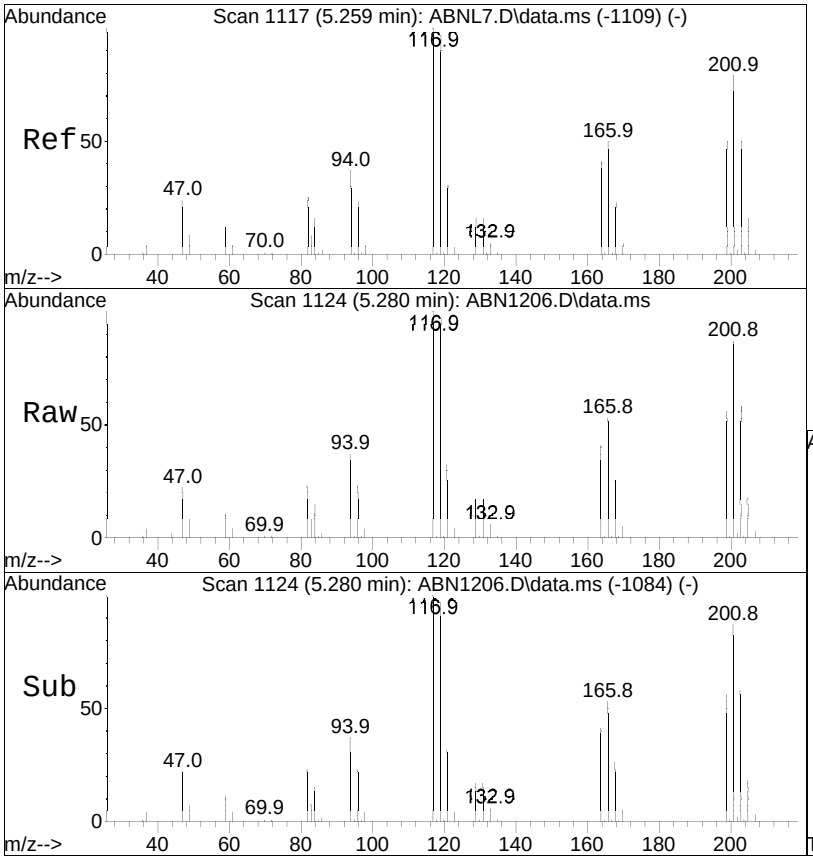


#15
2-Methylphenol
Concen: 49.46 ug/ml
RT: 5.060 min Scan# 1053
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion:108 Resp: 263962

Ion	Ratio	Lower	Upper
108	100		
107	87.3	71.0	106.4
90	23.3	19.7	29.5

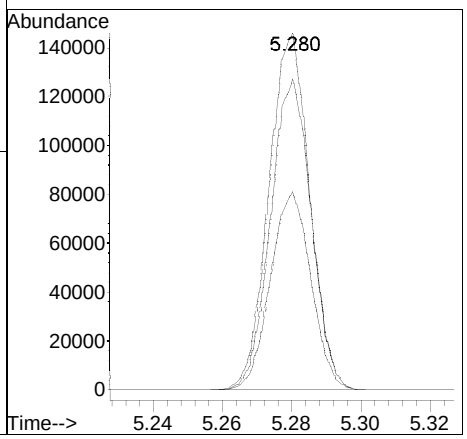


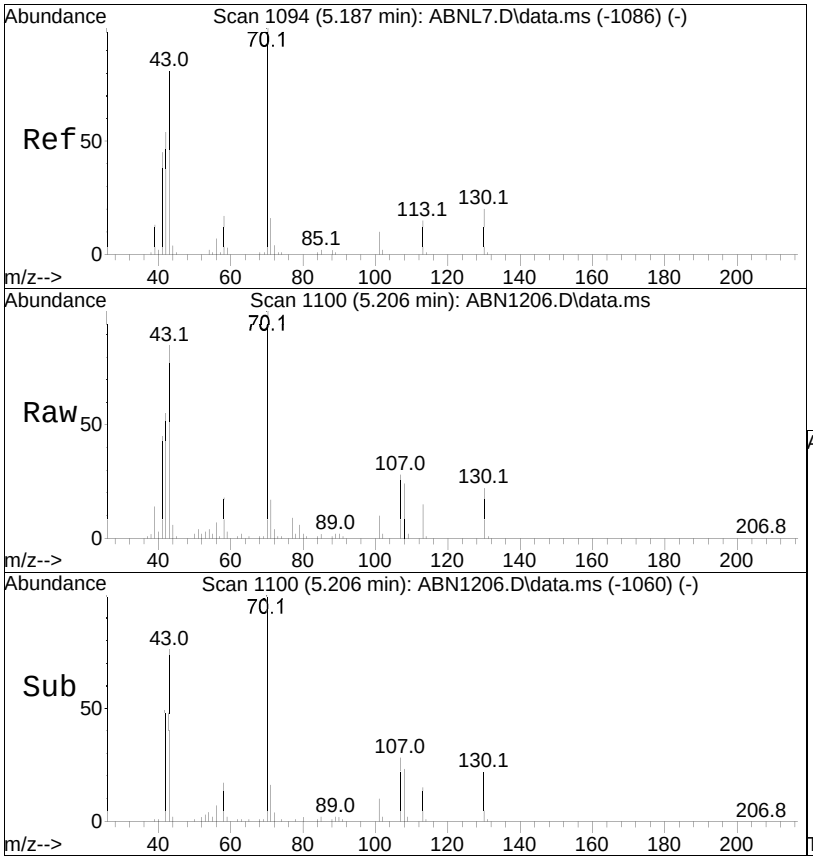


#16
Hexachloroethane
Concen: 47.64 ug/ml
RT: 5.280 min Scan# 1124
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion:117 Resp: 118240

Ion	Ratio	Lower	Upper
117	100		
201	87.2	64.4	96.6
199	55.5	40.5	60.7

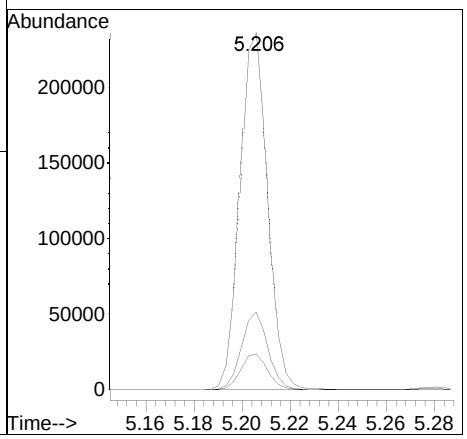


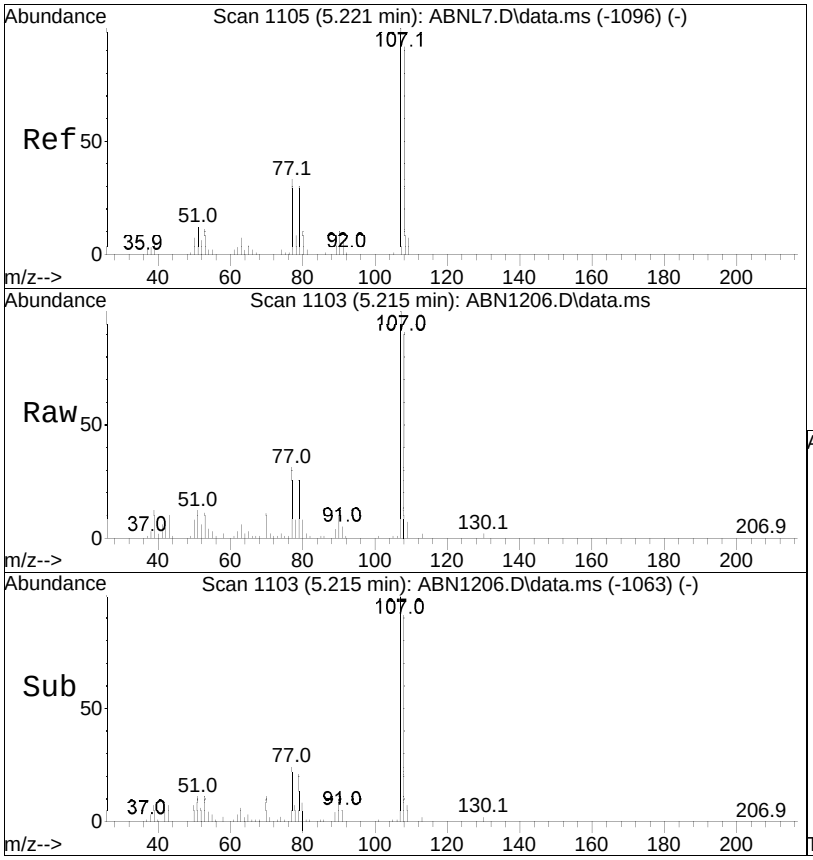


#17
n-Nitrosodi-n-propylamine
Concen: 46.75 ug/ml
RT: 5.206 min Scan# 1100
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion: 70 Resp: 187986

Ion	Ratio	Lower	Upper
70	100		
130	20.6	16.2	24.4
101	9.6	7.6	11.4

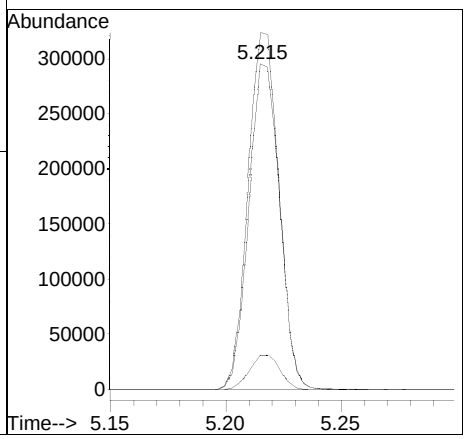


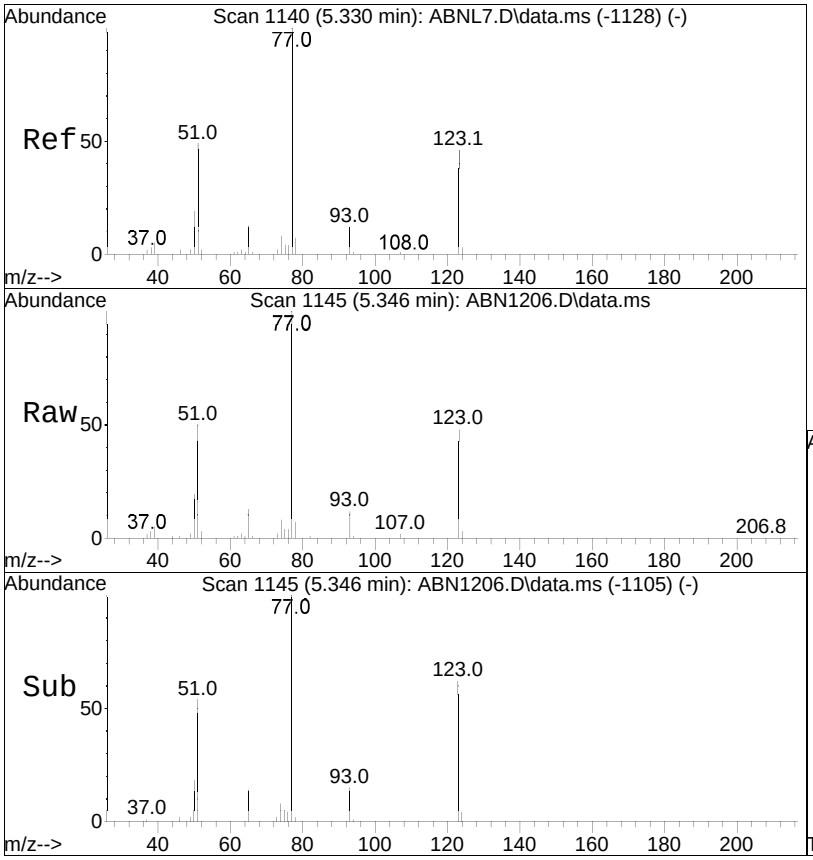


#18
3-Methylphenol/4-Methylphenol
Concen: 49.04 ug/ml
RT: 5.215 min Scan# 1103
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion:108 Resp: 274456

Ion	Ratio	Lower	Upper
108	100		
107	110.3	88.8	133.2
90	10.6	9.0	13.6

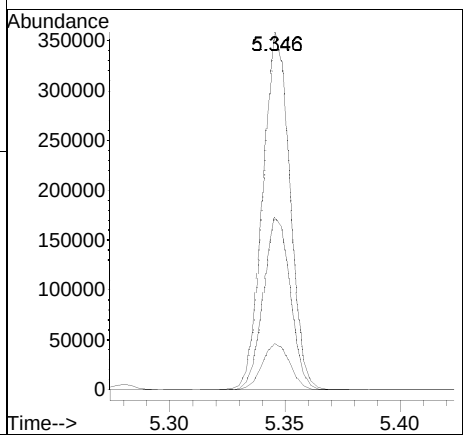


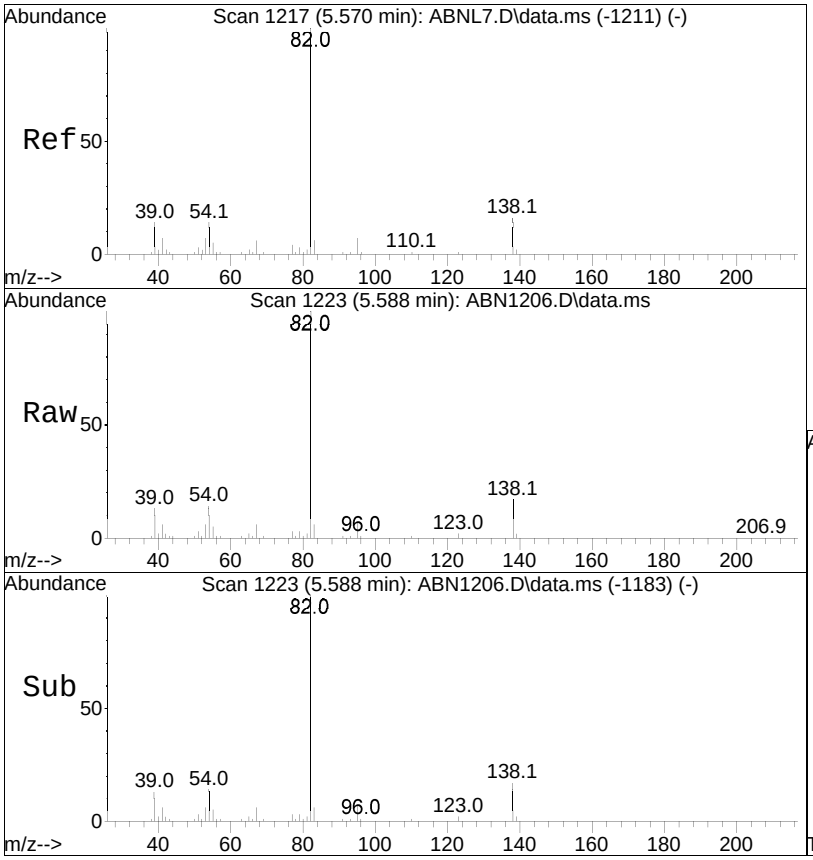


#20
Nitrobenzene
Concen: 47.66 ug/ml
RT: 5.346 min Scan# 1145
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion: 77 Resp: 289973

Ion	Ratio	Lower	Upper
77	100		
123	48.3	37.3	55.9
65	13.3	10.9	16.3

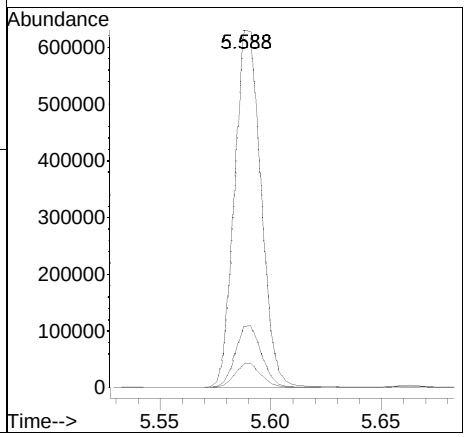


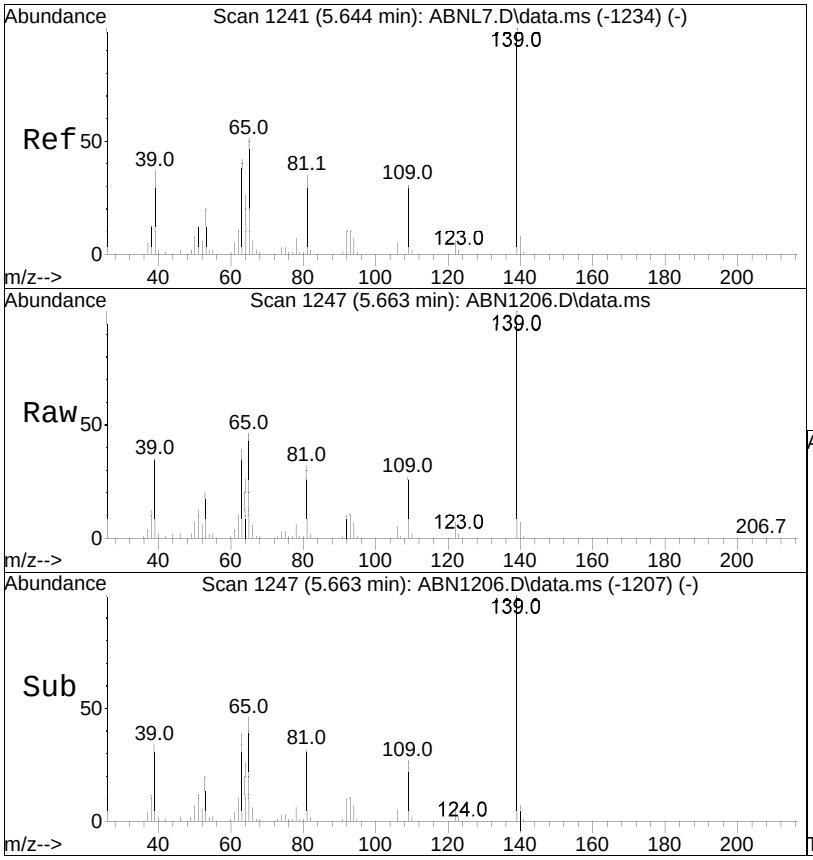


#21
Isophorone
Concen: 48.63 ug/ml
RT: 5.588 min Scan# 1223
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion: 82 Resp: 520358

Ion	Ratio	Lower	Upper
82	100		
138	17.3	13.0	19.4
95	6.7	5.5	8.3

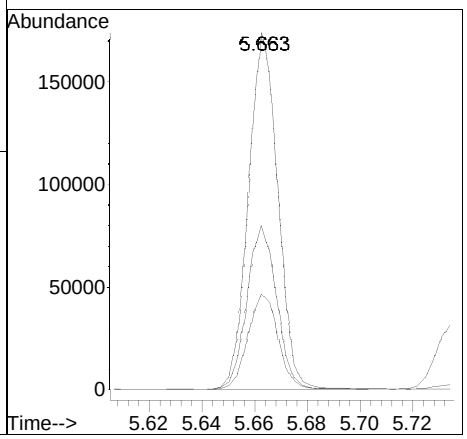


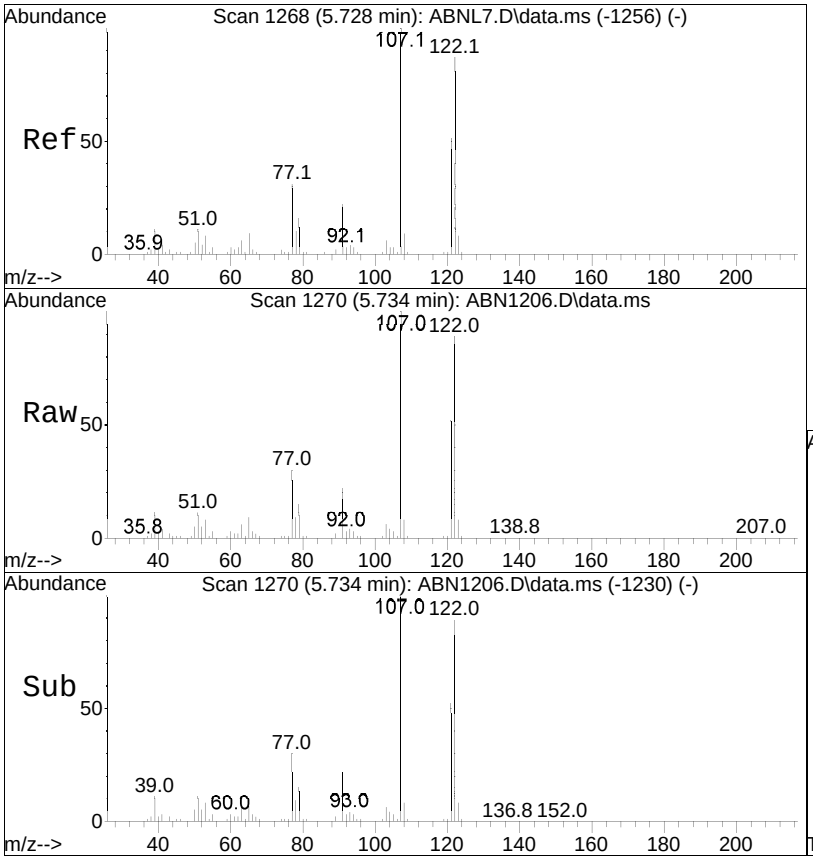


#22
2-Nitrophenol
Concen: 46.18 ug/ml
RT: 5.663 min Scan# 1247
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion:139 Resp: 134024

Ion	Ratio	Lower	Upper
139	100		
109	27.9	23.1	34.7
65	46.8	41.4	62.2

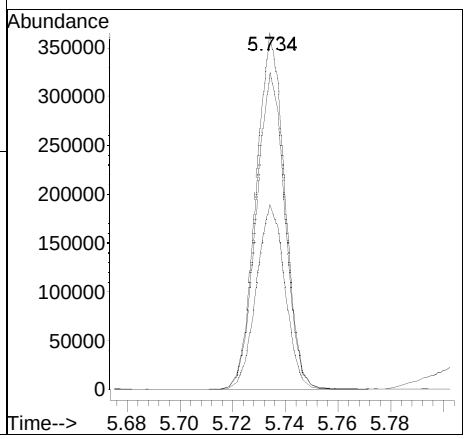


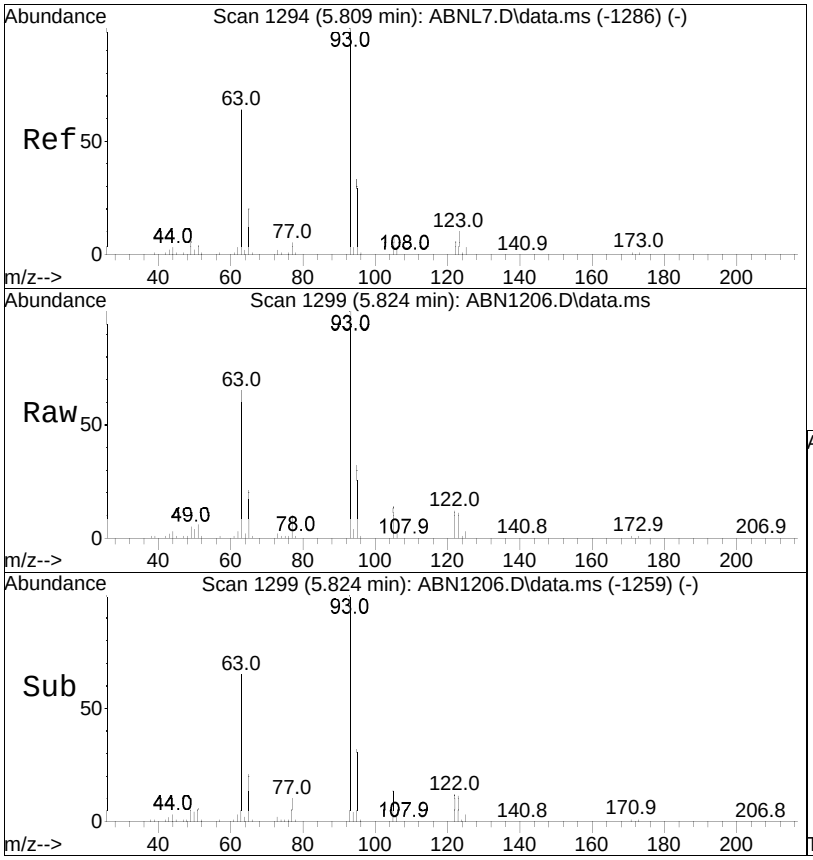


#23
2,4-Dimethylphenol
Concen: 48.94 ug/ml
RT: 5.734 min Scan# 1270
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion:107 Resp: 274887

Ion	Ratio	Lower	Upper
107	100		
121	52.0	41.3	61.9
122	89.1	69.3	103.9

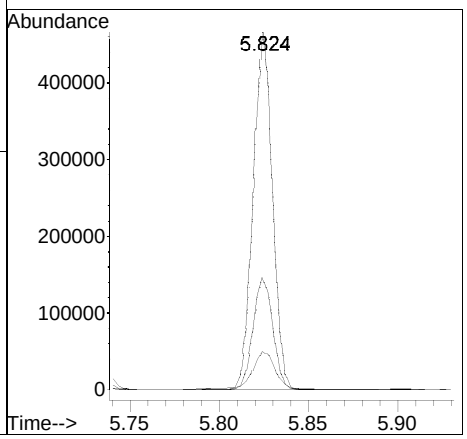


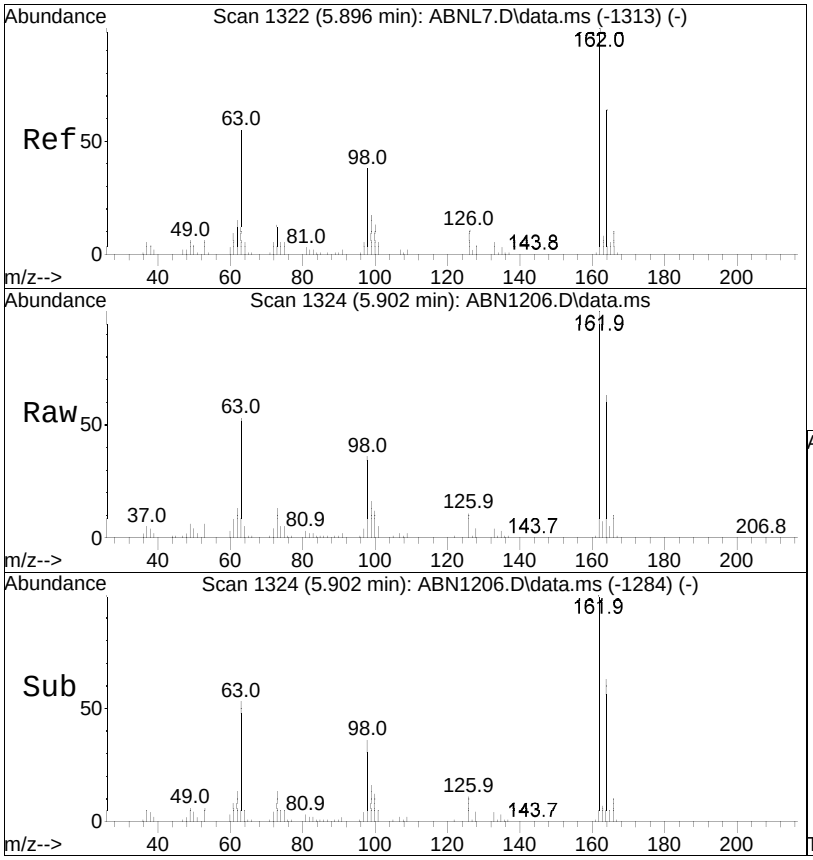


#24
Bis(2-chloroethoxy)methane
Concen: 48.38 ug/ml
RT: 5.824 min Scan# 1299
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion: 93 Resp: 344753

Ion	Ratio	Lower	Upper
93	100		
95	32.3	25.8	38.8
123	13.4	9.6	14.4

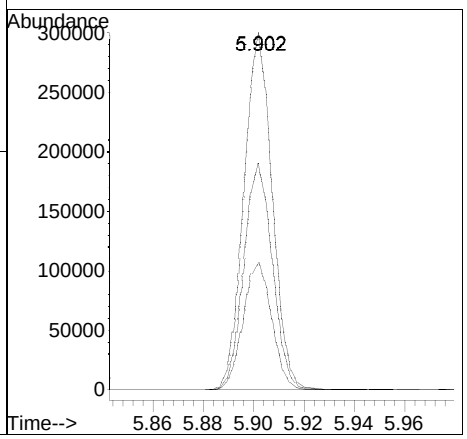


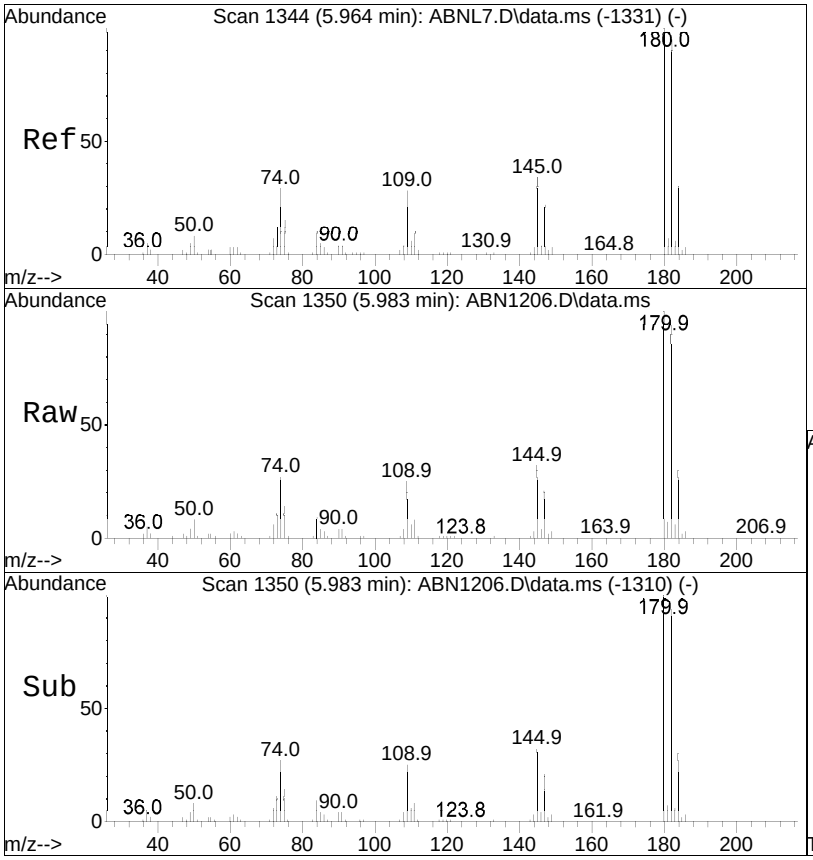


#25
2,4-Dichlorophenol
Concen: 50.14 ug/ml
RT: 5.902 min Scan# 1324
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion:162 Resp: 233651

Ion	Ratio	Lower	Upper
162	100		
164	64.0	51.1	76.7
98	36.3	32.2	48.2

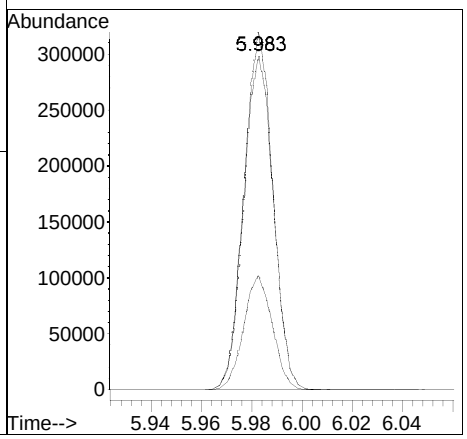


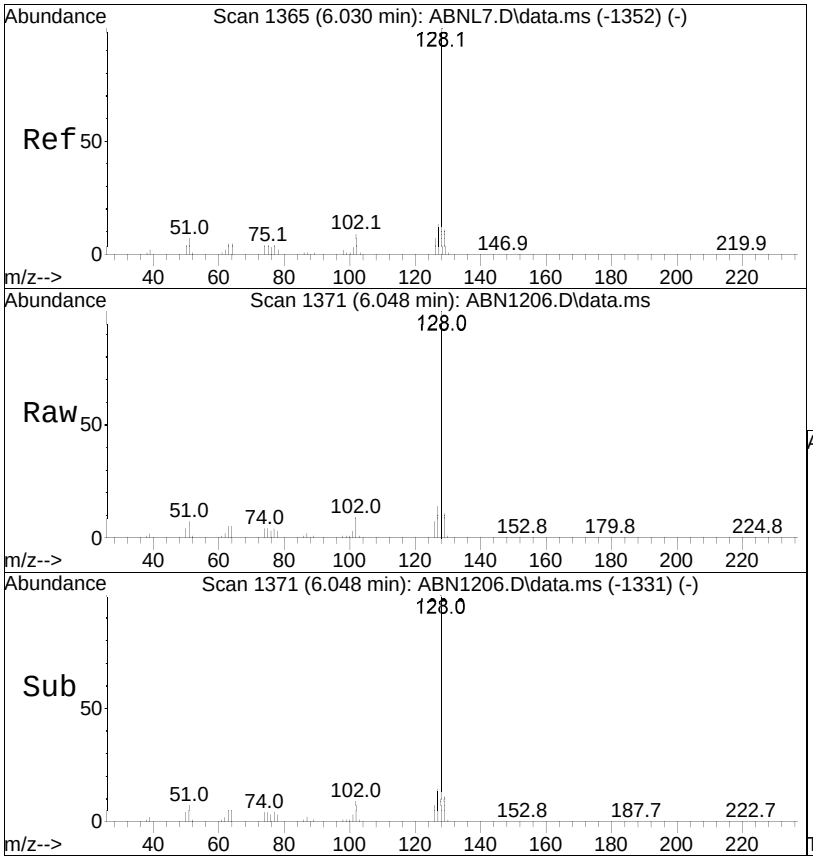


#26
1,2,4-Trichlorobenzene
Concen: 49.48 ug/ml
RT: 5.983 min Scan# 1350
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion:180 Resp: 253120

Ion	Ratio	Lower	Upper
180	100		
182	95.8	75.8	113.8
145	32.0	26.3	39.5

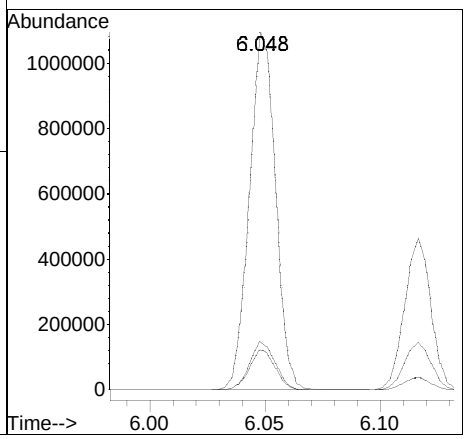


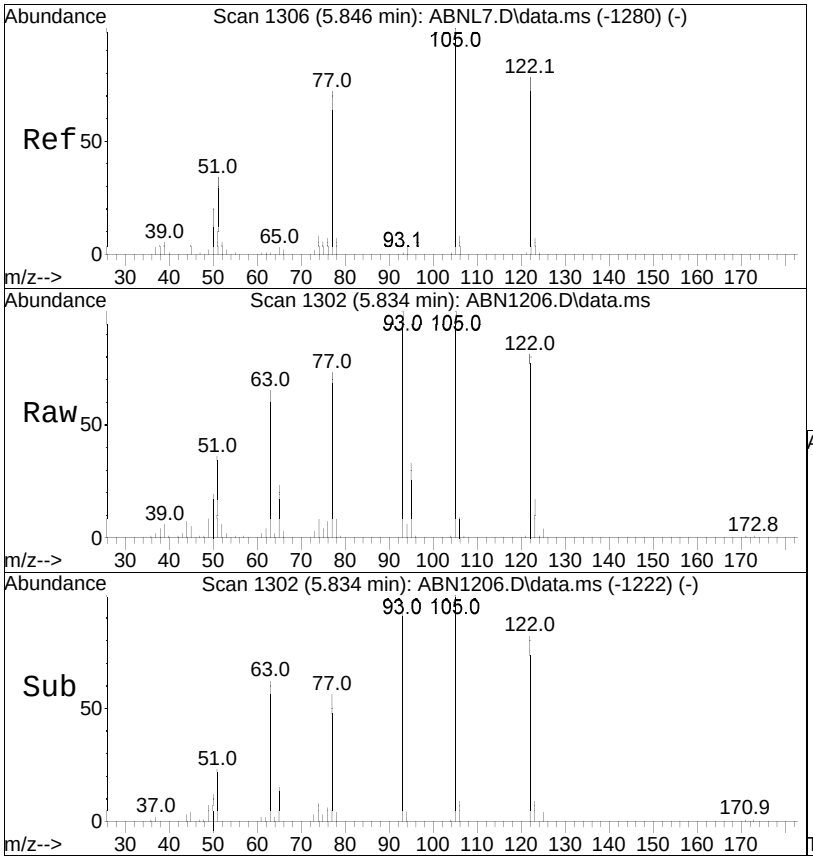


#35
Naphthalene
Concen: 48.09 ug/ml
RT: 6.048 min Scan# 1371
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion:128 Resp: 858289

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.9	13.3
127	13.3	10.6	15.8

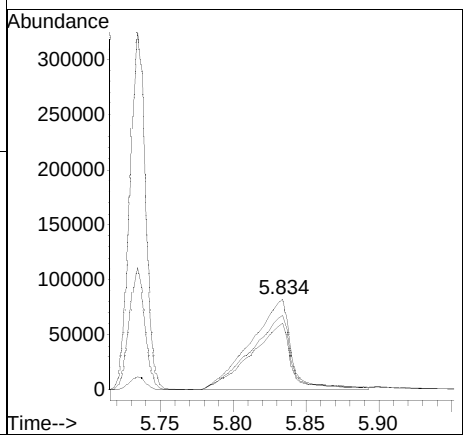


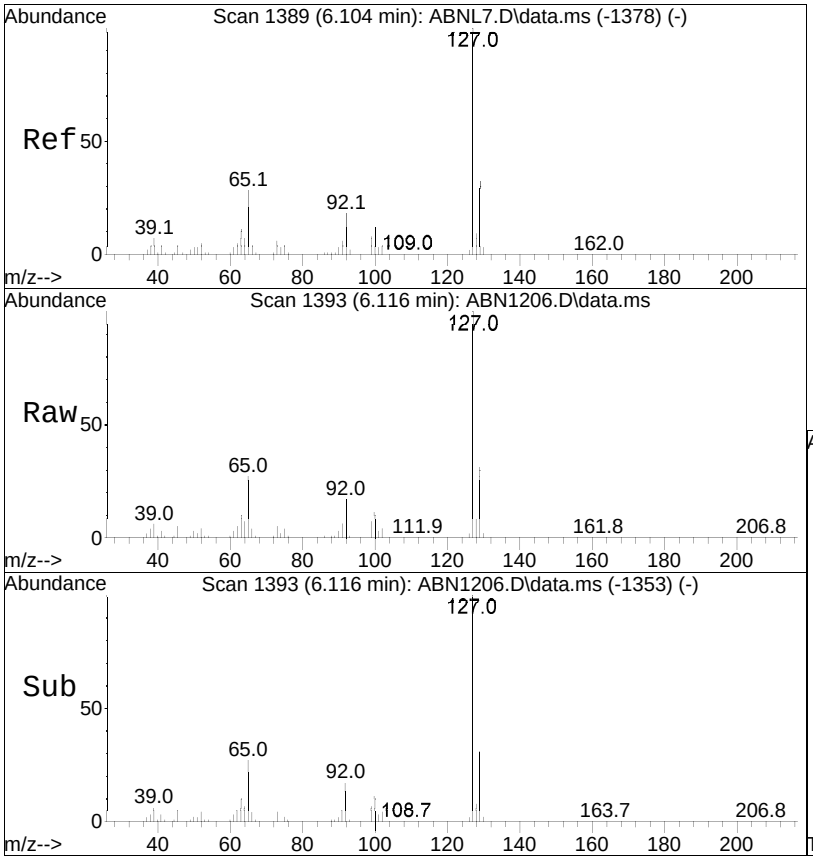


#36
Benzoic Acid
Concen: 41.15 ug/ml
RT: 5.834 min Scan# 1302
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion:105 Resp: 160853

Ion	Ratio	Lower	Upper
105	100		
122	81.5	62.6	93.8
77	72.6	59.1	88.7

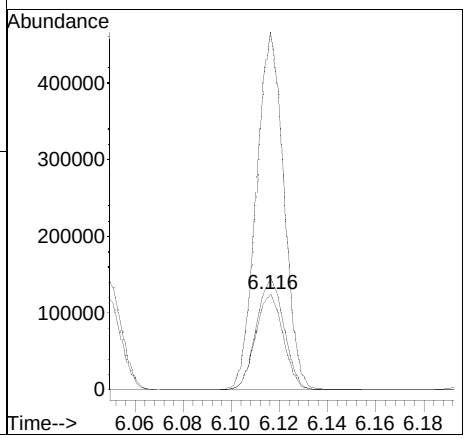


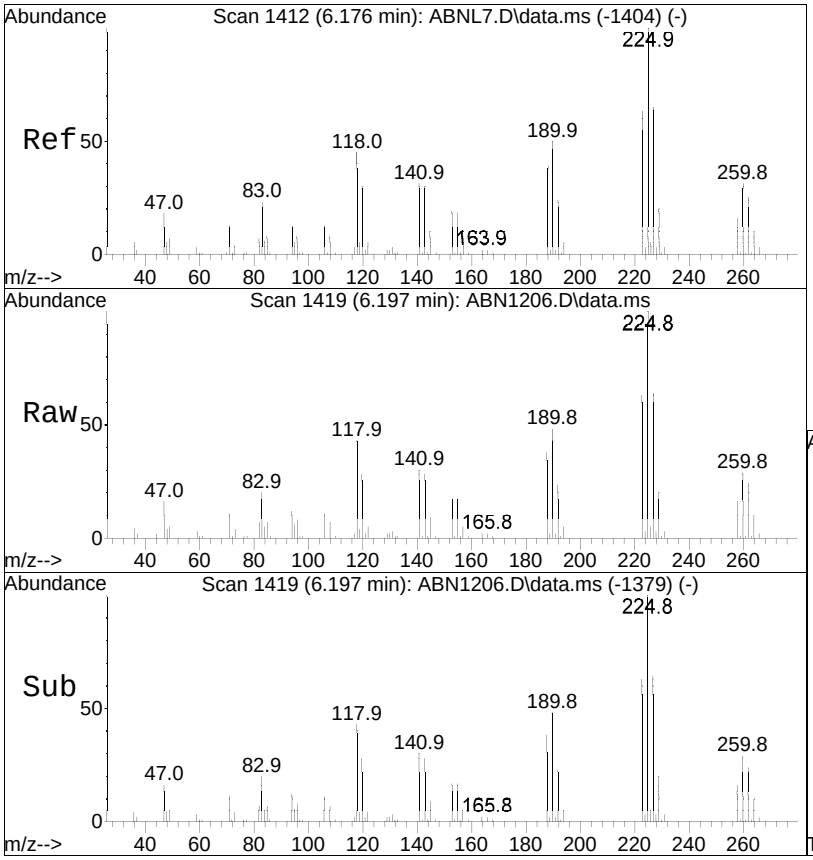


#37
4-Chloroaniline
Concen: 46.83 ug/ml
RT: 6.116 min Scan# 1393
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion: 65 Resp: 100284

Ion	Ratio	Lower	Upper
65	100		
127	366.9	266.2	399.4
129	116.6	85.0	127.4

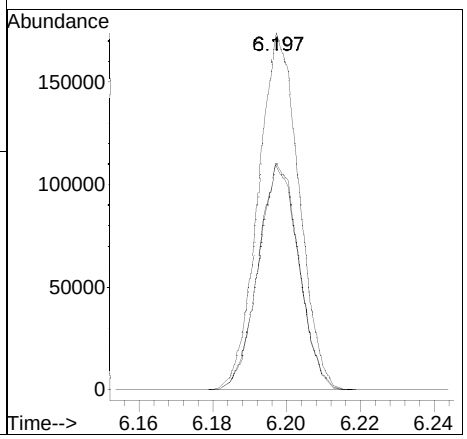


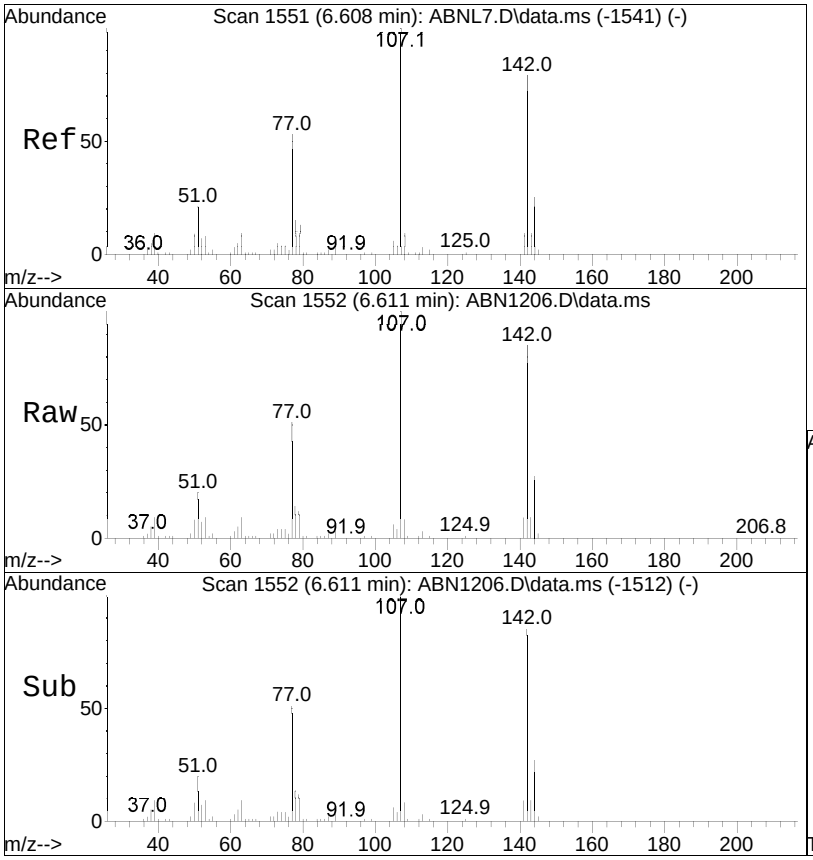


#38
Hexachlorobutadiene
Concen: 49.58 ug/ml
RT: 6.197 min Scan# 1419
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion:225 Resp: 132510

Ion	Ratio	Lower	Upper
225	100		
223	63.2	50.5	75.7
227	63.7	50.4	75.6

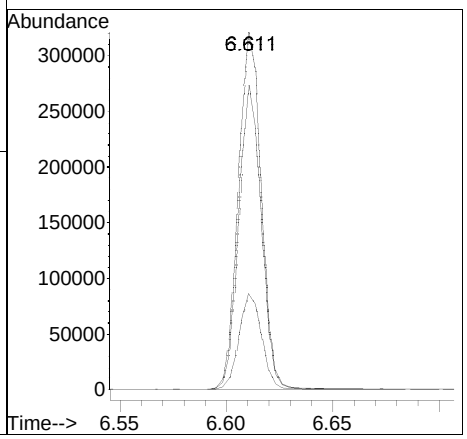


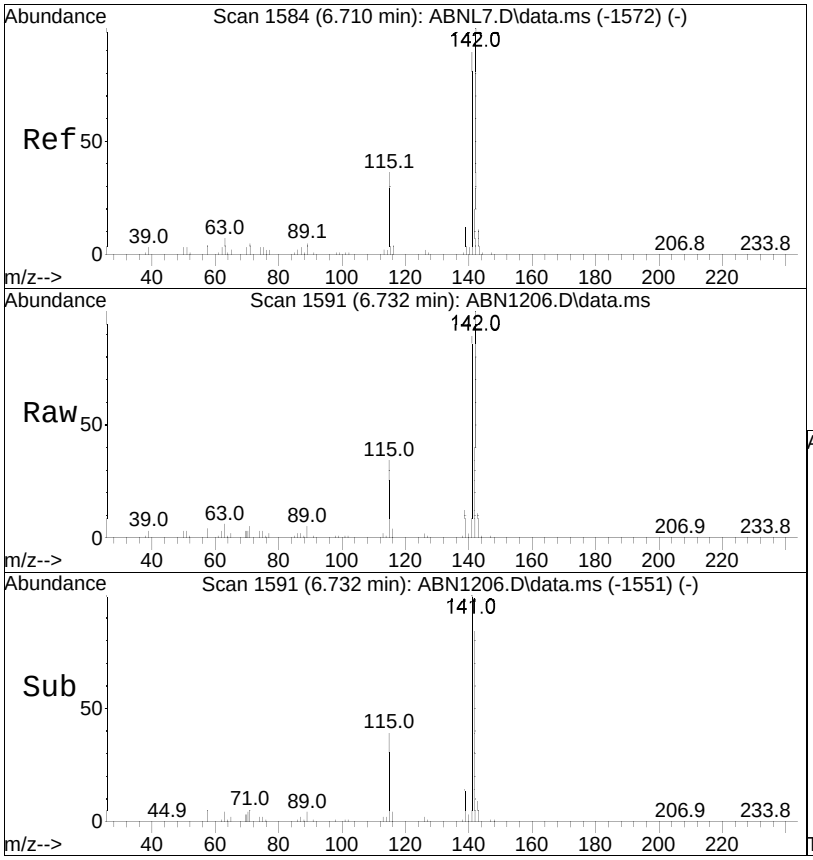


#39
p-Chloro-m-cresol
Concen: 48.63 ug/ml
RT: 6.611 min Scan# 1552
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion:107 Resp: 238430

Ion	Ratio	Lower	Upper
107	100		
144	26.7	20.3	30.5
142	83.4	63.8	95.6

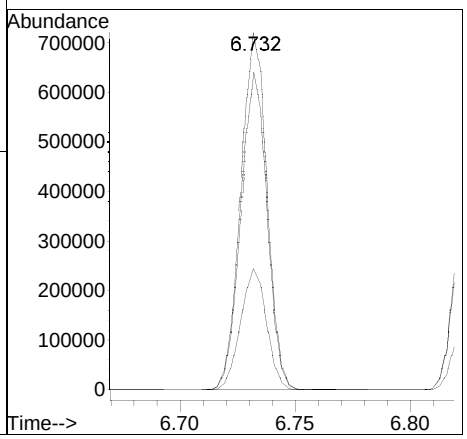


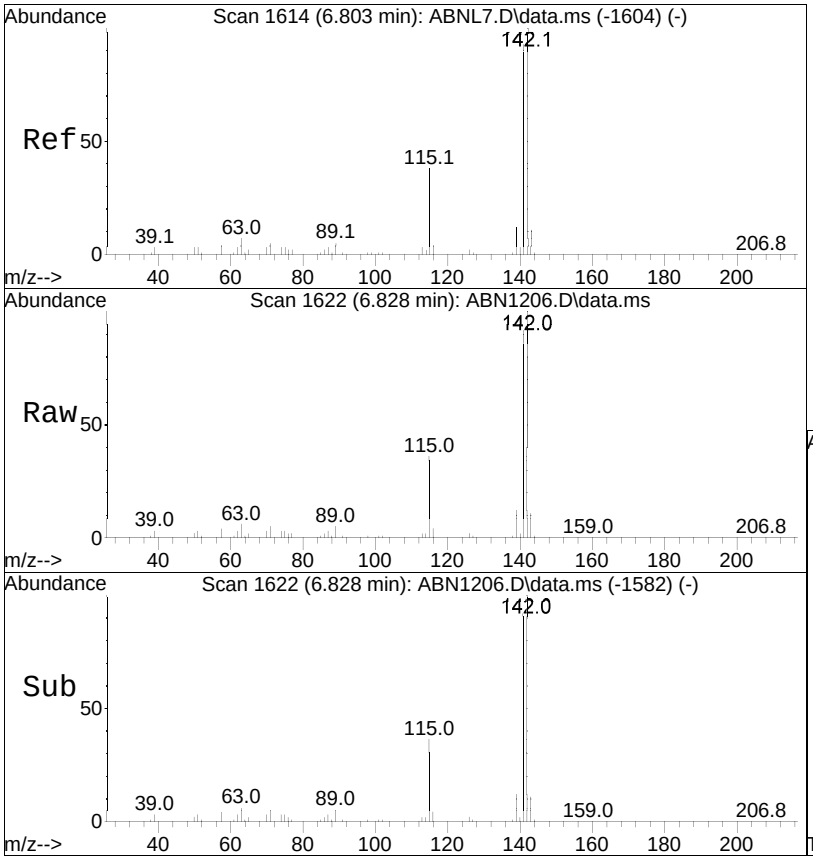


#40
2-Methylnaphthalene
Concen: 49.19 ug/ml
RT: 6.732 min Scan# 1591
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion:142 Resp: 570399

Ion	Ratio	Lower	Upper
142	100		
141	88.5	72.2	108.4
115	33.8	27.8	41.6

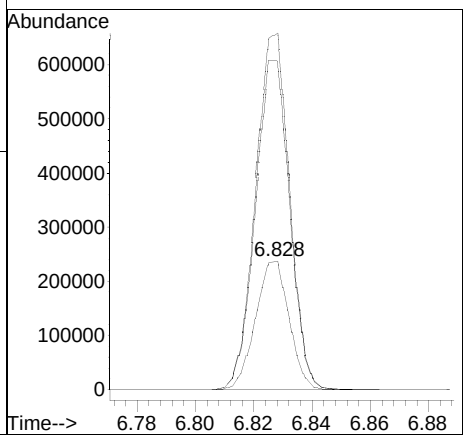


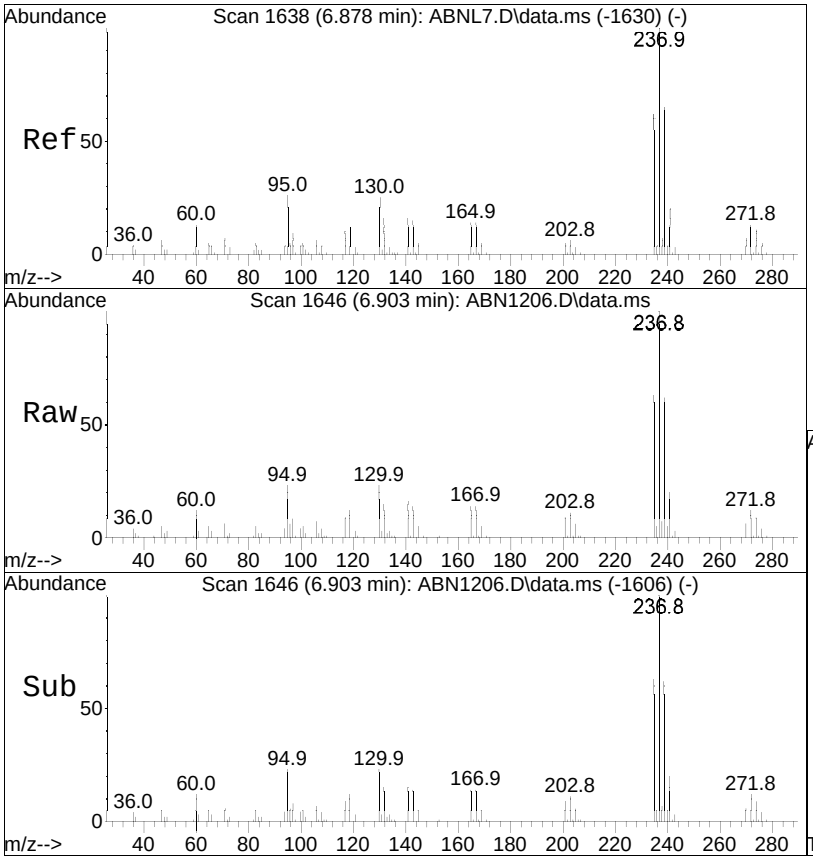


#41
1-Methylnaphthalene
Concen: 48.24 ug/ml
RT: 6.828 min Scan# 1622
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion:115 Resp: 190702

Ion	Ratio	Lower	Upper
115	100		
141	260.7	205.4	308.2
142	280.1	220.2	330.4

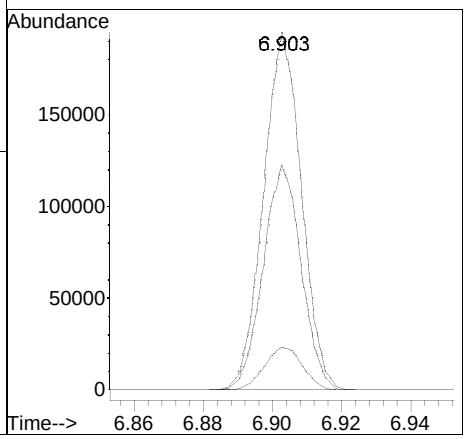


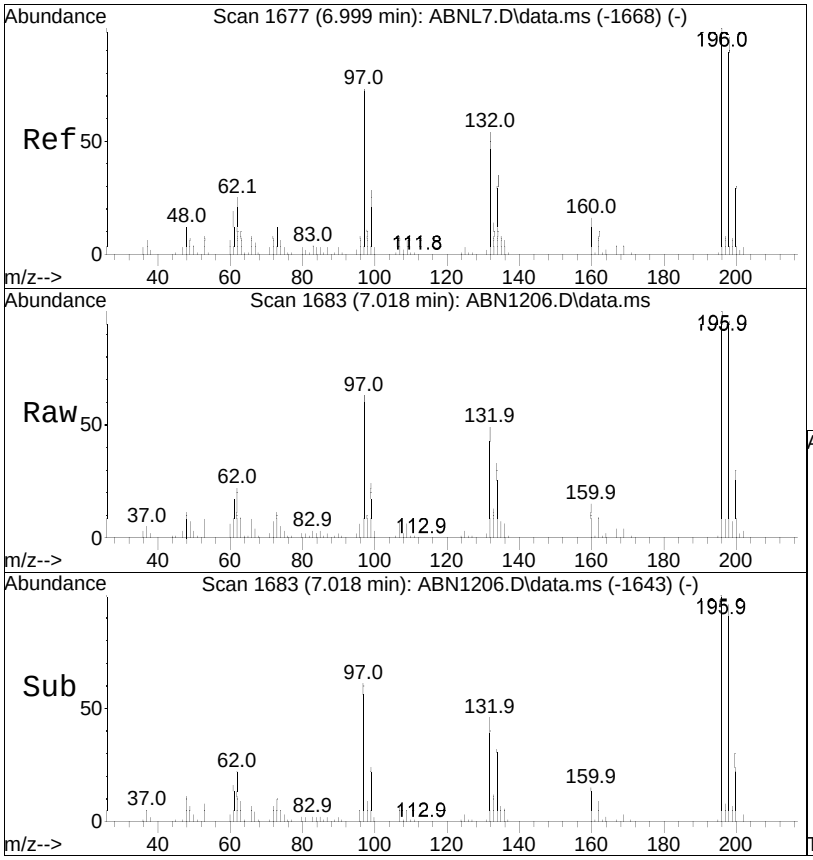


#42
Hexachlorocyclopentadiene
Concen: 48.27 ug/ml
RT: 6.903 min Scan# 1646
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion:237 Resp: 147144

Ion	Ratio	Lower	Upper
237	100		
235	63.2	50.9	76.3
272	12.2	10.1	15.1

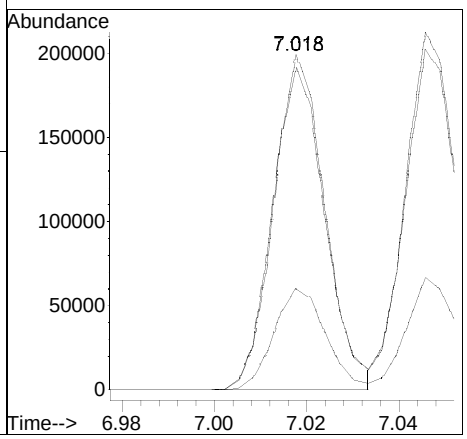


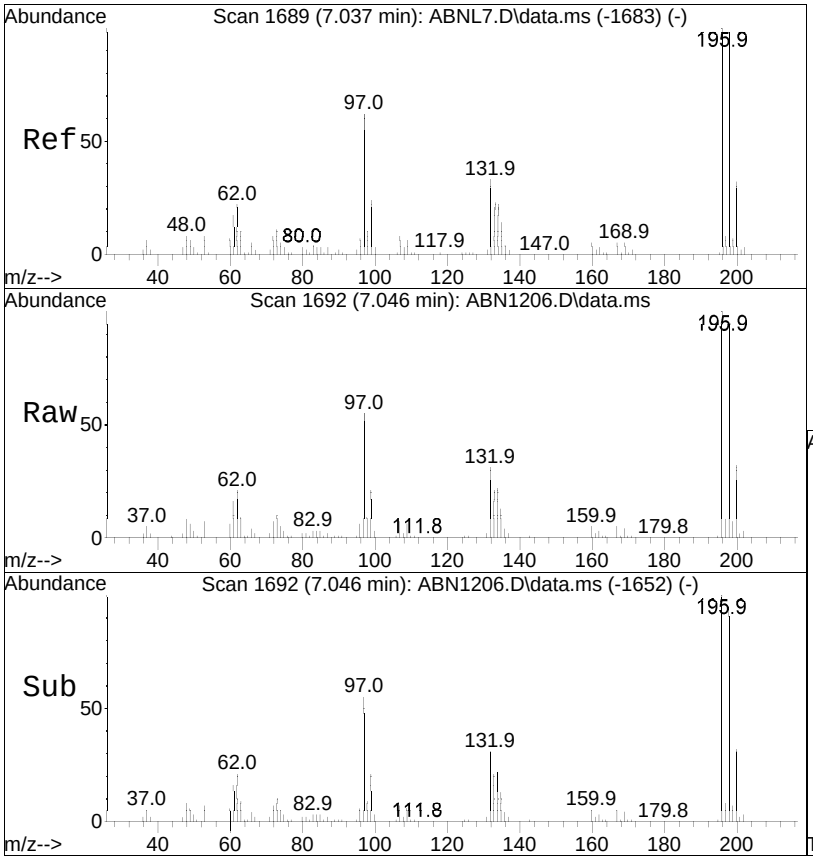


#43
2,4,6-Trichlorophenol
Concen: 50.96 ug/ml
RT: 7.018 min Scan# 1683
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion:196 Resp: 155136

Ion	Ratio	Lower	Upper
196	100		
198	96.4	76.4	114.6
200	30.5	24.4	36.6

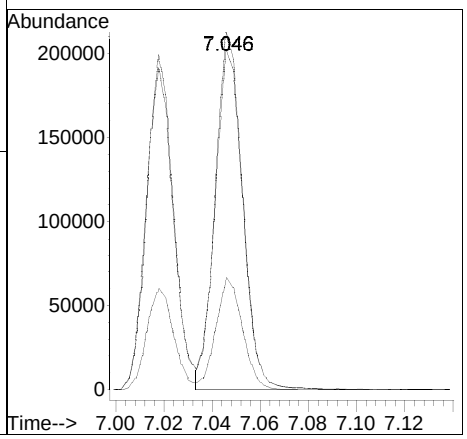


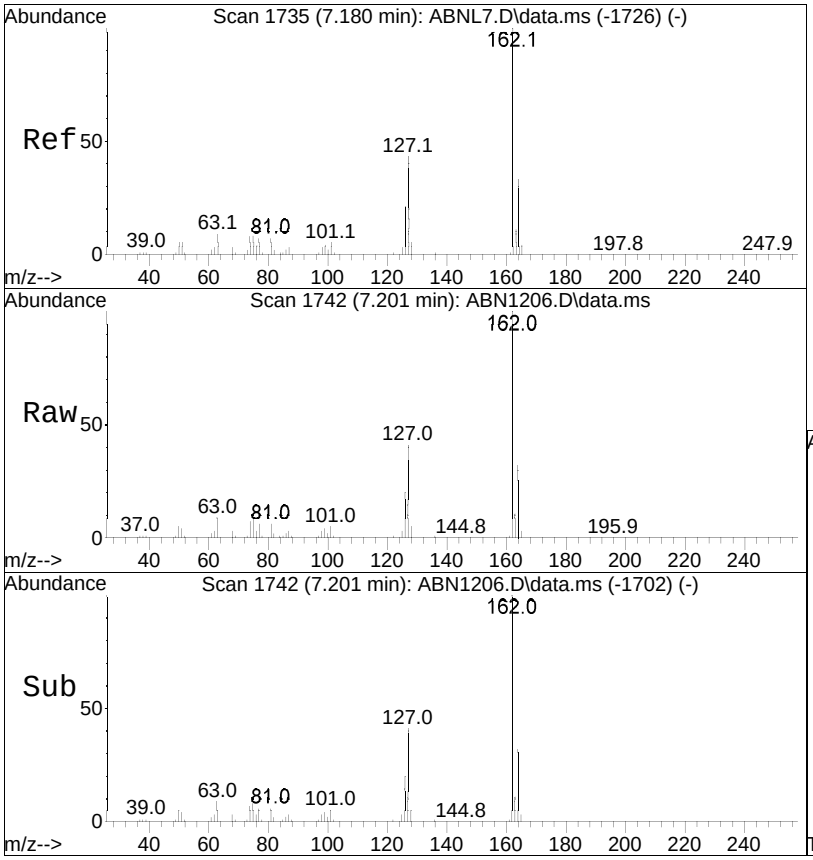


#44
2,4,5-Trichlorophenol
Concen: 50.26 ug/ml
RT: 7.046 min Scan# 1692
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion:196 Resp: 167268

Ion	Ratio	Lower	Upper
196	100		
200	31.1	24.2	36.4
198	95.8	76.2	114.2

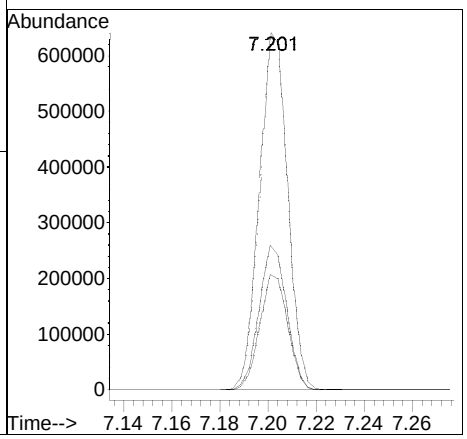


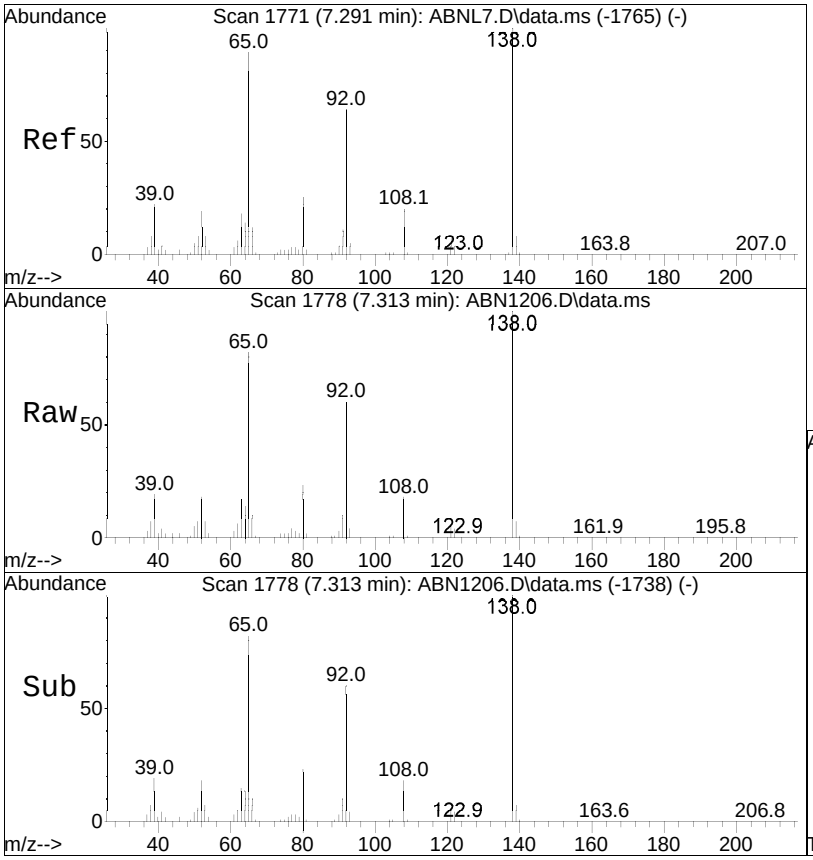


#46
2-Chloronaphthalene
Concen: 49.80 ug/ml
RT: 7.201 min Scan# 1742
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion:162 Resp: 517114

Ion	Ratio	Lower	Upper
162	100		
127	40.0	33.8	50.6
164	32.4	25.8	38.6

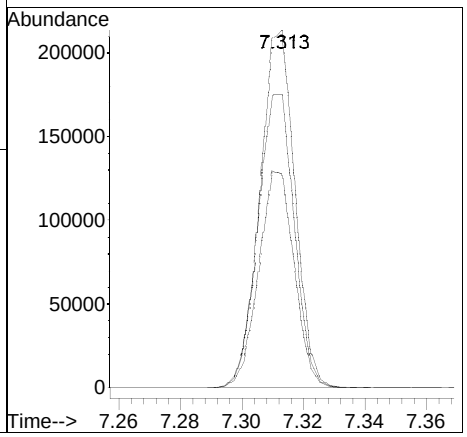


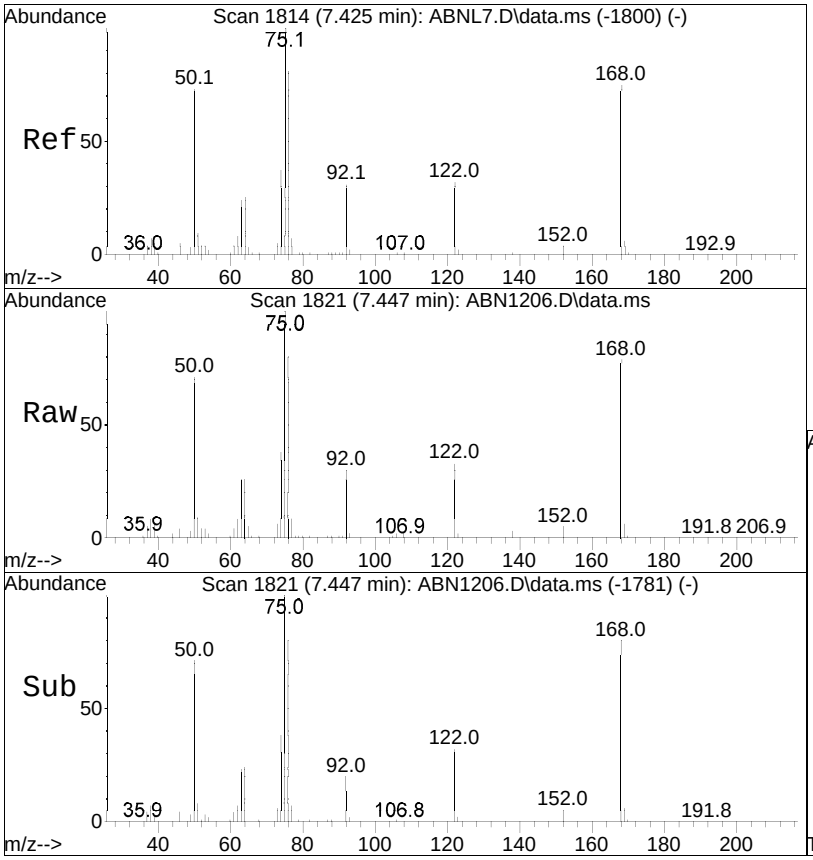


#47
2-Nitroaniline
Concen: 48.07 ug/ml
RT: 7.313 min Scan# 1778
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion:138 Resp: 167200

Ion	Ratio	Lower	Upper
138	100		
92	61.8	52.1	78.1
65	85.7	75.9	113.9

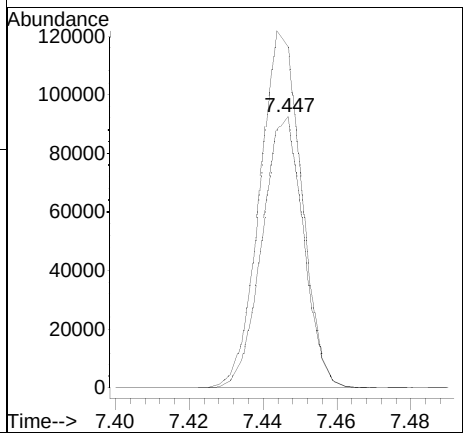


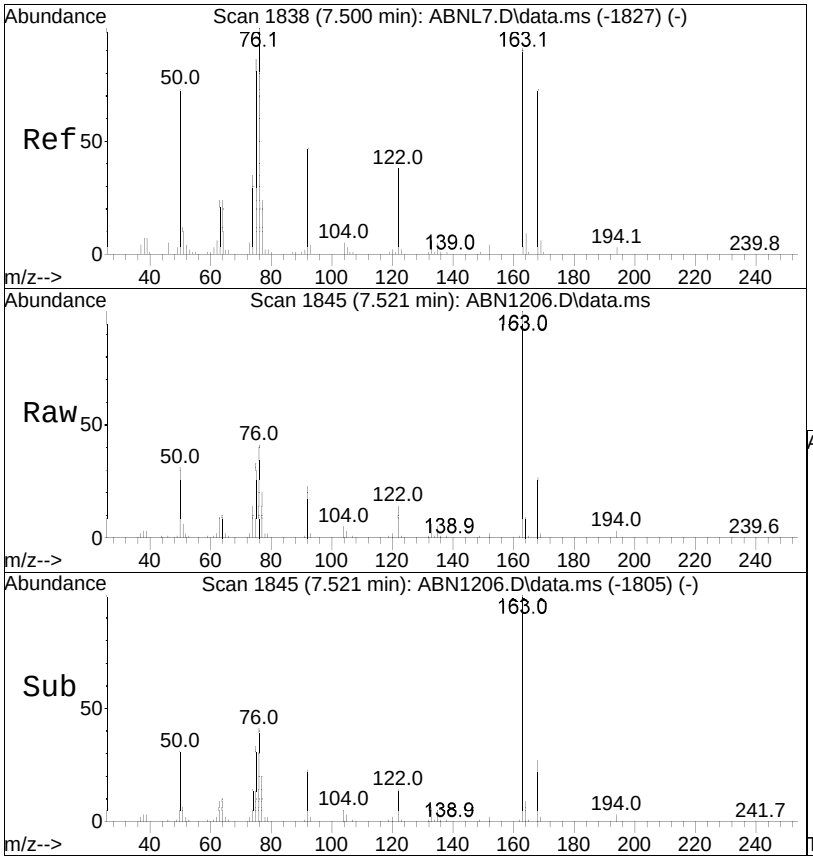


#48
1,4-Dinitrobenzene
Concen: 46.95 ug/ml
RT: 7.447 min Scan# 1821
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion:168 Resp: 71953

Ion	Ratio	Lower	Upper
168	100		
75	132.9	111.0	166.4

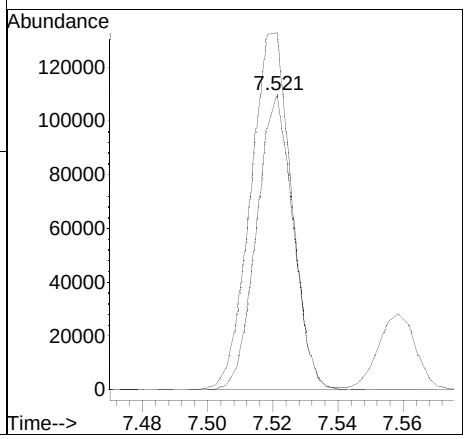


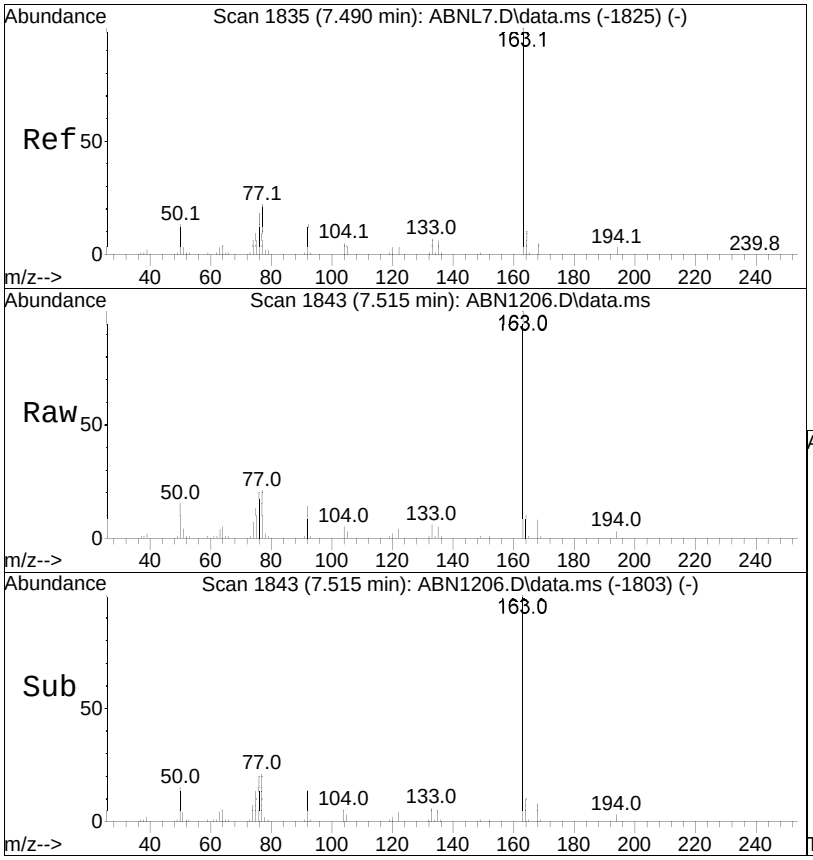


#49
1,3-Dinitrobenzene
Concen: 50.81 ug/ml
RT: 7.521 min Scan# 1845
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion:168 Resp: 85134

Ion	Ratio	Lower	Upper
168	100		
75	134.9	116.4	174.6

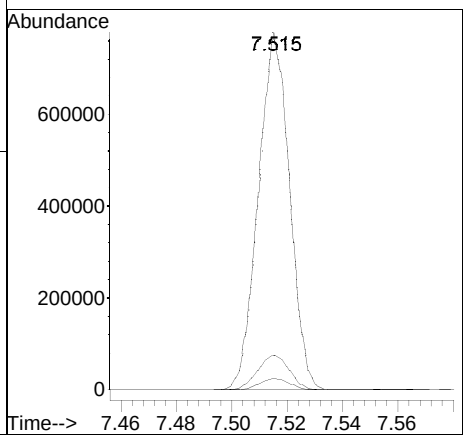


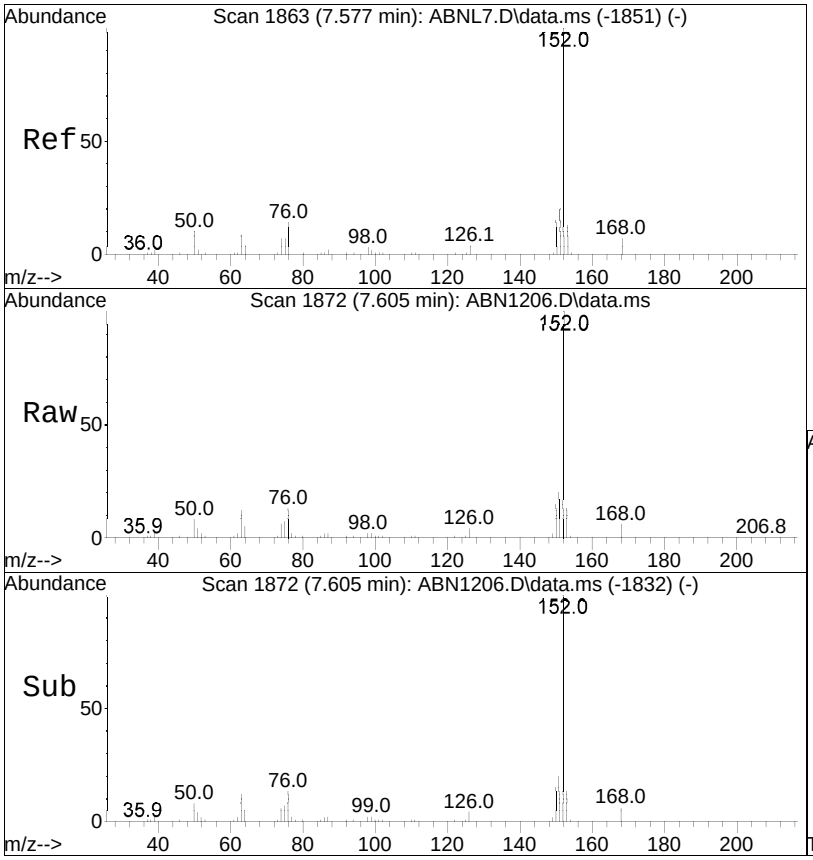


#50
Dimethyl phthalate
Concen: 50.54 ug/ml
RT: 7.515 min Scan# 1843
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion:163 Resp: 601103

Ion	Ratio	Lower	Upper
163	100		
194	3.2	2.3	3.5
164	10.0	8.2	12.2

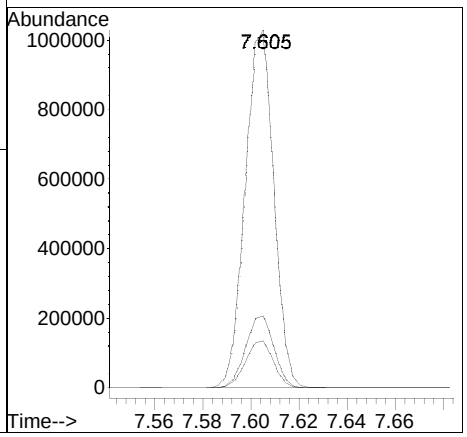


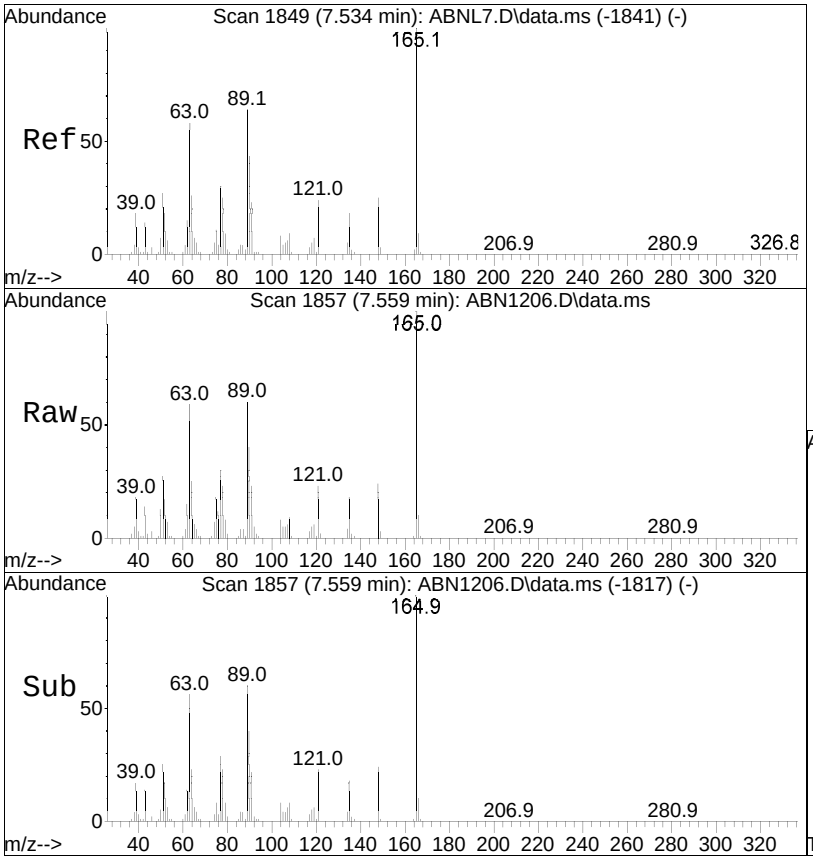


#51
Acenaphthylene
Concen: 51.02 ug/ml
RT: 7.605 min Scan# 1872
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion:152 Resp: 841964

Ion	Ratio	Lower	Upper
152	100		
151	20.2	15.9	23.9
153	13.1	10.5	15.7

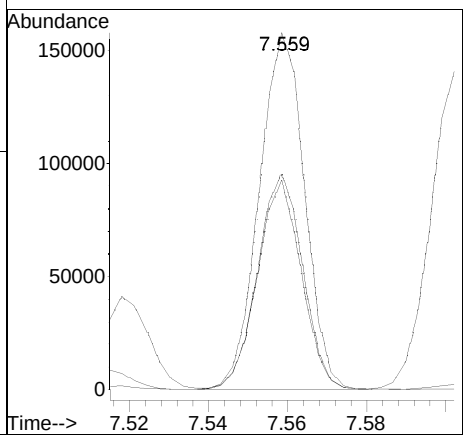


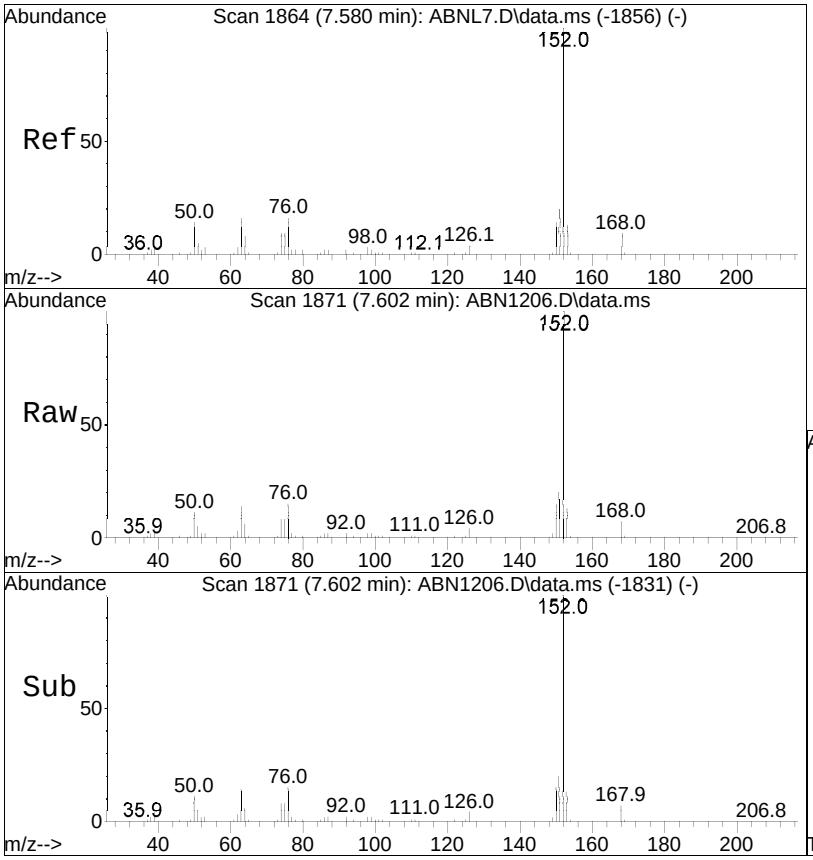


#52
2,6-Dinitrotoluene
Concen: 51.80 ug/ml
RT: 7.559 min Scan# 1857
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion:165 Resp: 125872

Ion	Ratio	Lower	Upper
165	100		
89	60.3	48.8	73.2
63	56.9	50.5	75.7

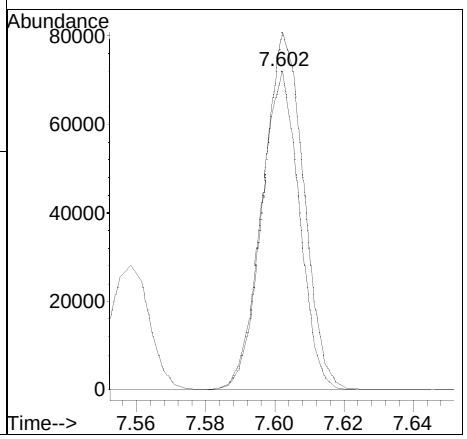


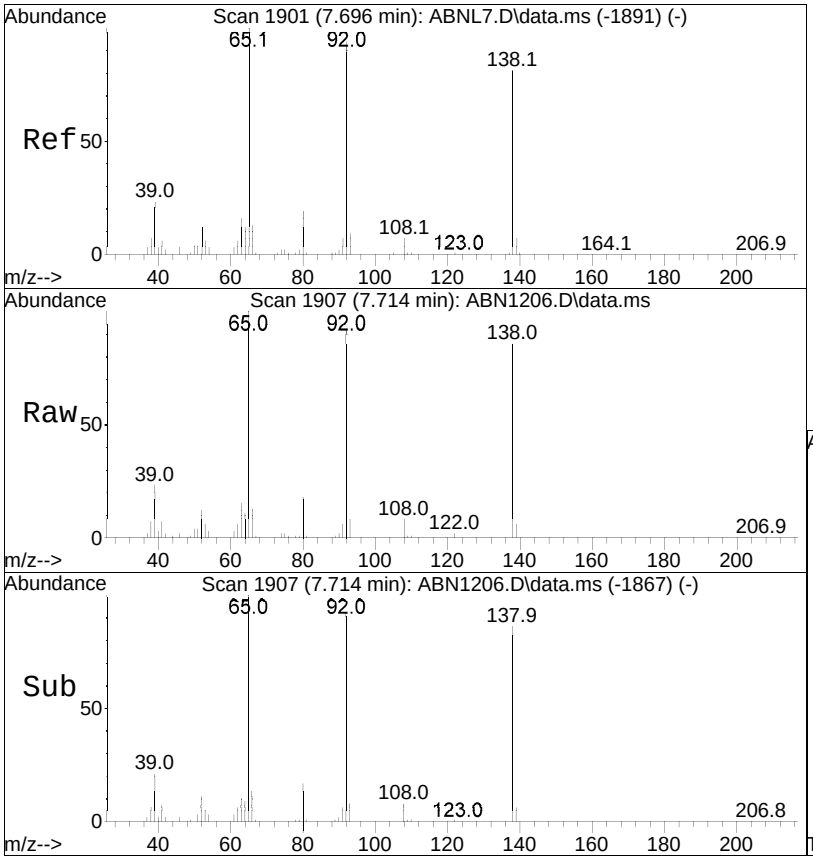


#53
1,2-Dinitrobenzene
Concen: 52.09 ug/ml
RT: 7.602 min Scan# 1871
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion:168 Resp: 55100

Ion	Ratio	Lower	Upper
168	100		
75	117.0	32.2	48.2#

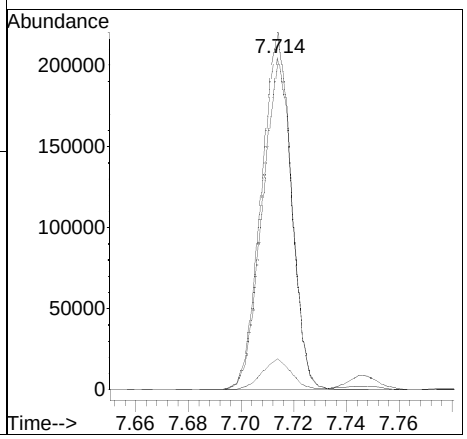


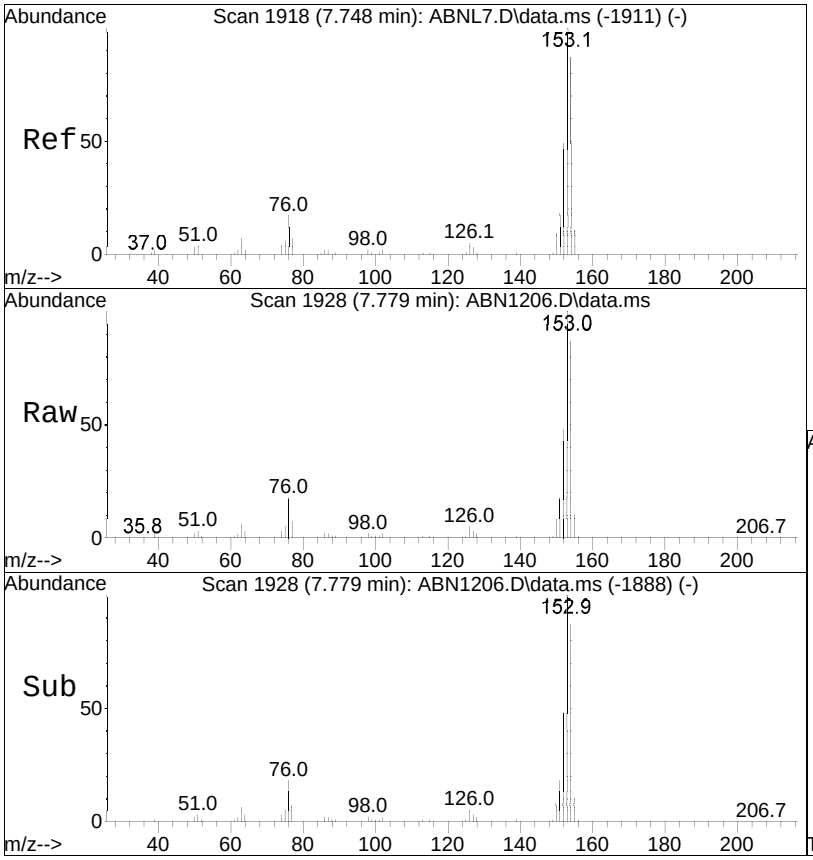


#63
3-Nitroaniline
Concen: 49.09 ug/ml
RT: 7.714 min Scan# 1907
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion:138 Resp: 157869

Ion	Ratio	Lower	Upper
138	100		
92	109.1	92.8	139.2
108	9.5	7.9	11.9

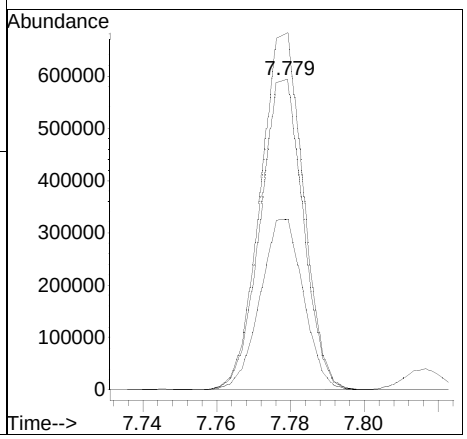


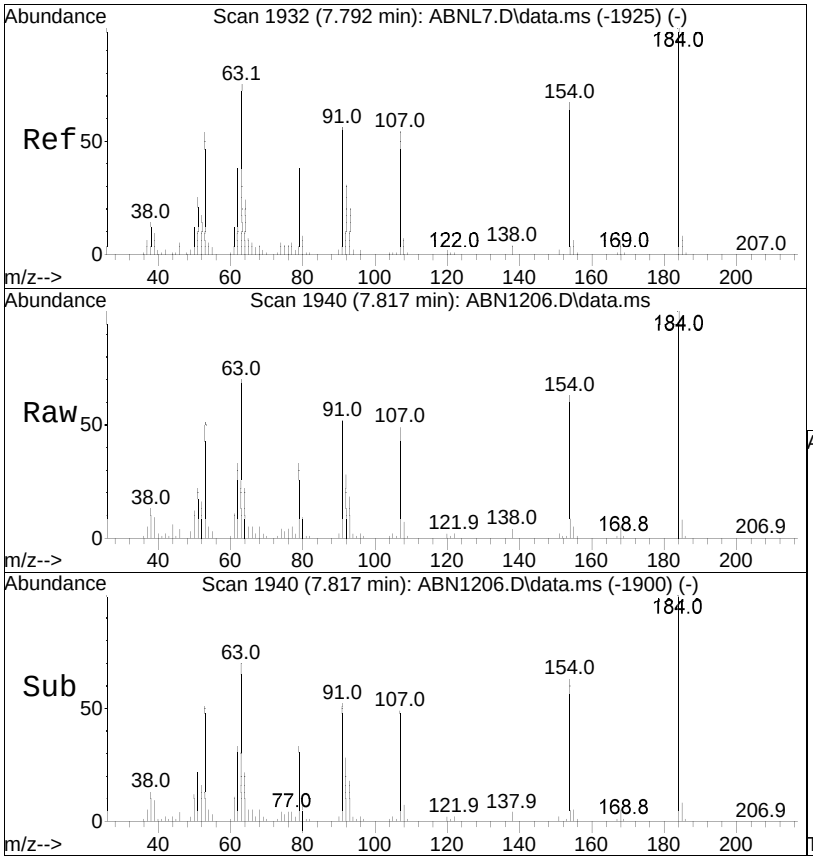


#64
Acenaphthene
Concen: 48.19 ug/ml
RT: 7.779 min Scan# 1928
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion:154 Resp: 478012

Ion	Ratio	Lower	Upper
154	100		
153	115.6	93.0	139.4
152	55.5	43.3	64.9

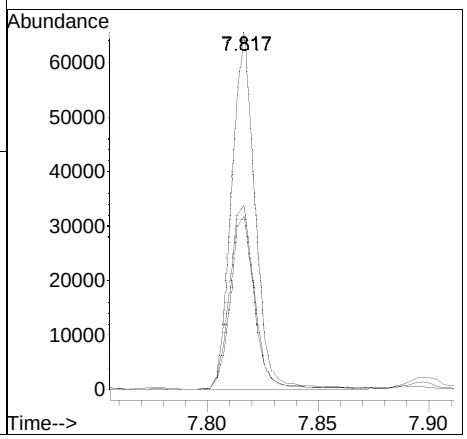


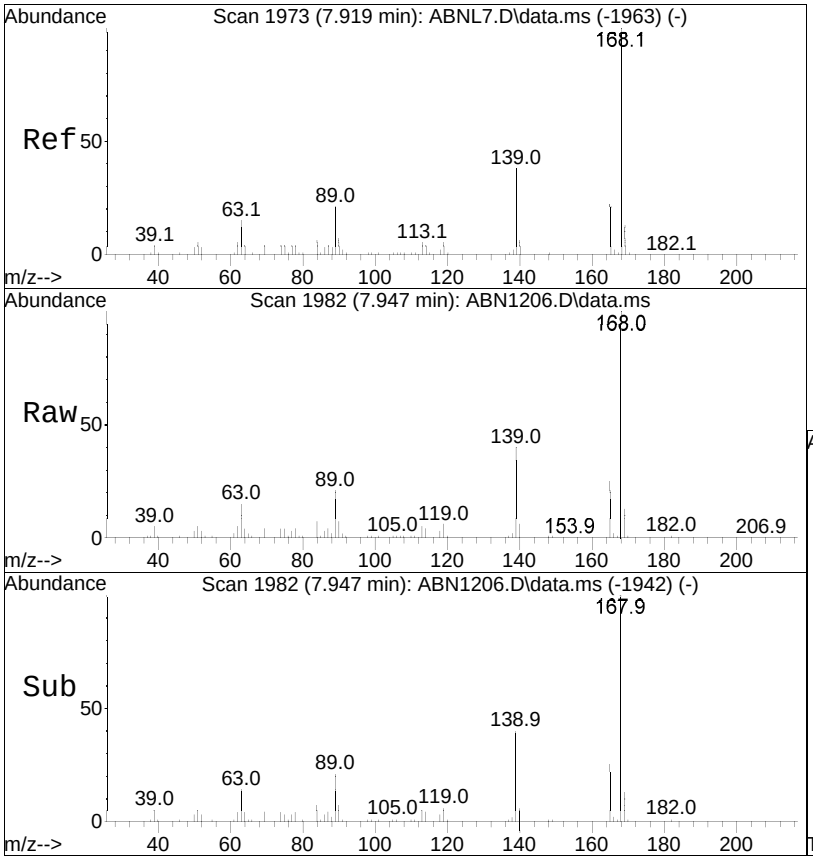


#65
2,4-Dinitrophenol
Concen: 39.87 ug/ml
RT: 7.817 min Scan# 1940
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion:184 Resp: 48472

Ion	Ratio	Lower	Upper
184	100		
107	49.9	41.8	62.6
91	54.5	44.2	66.2

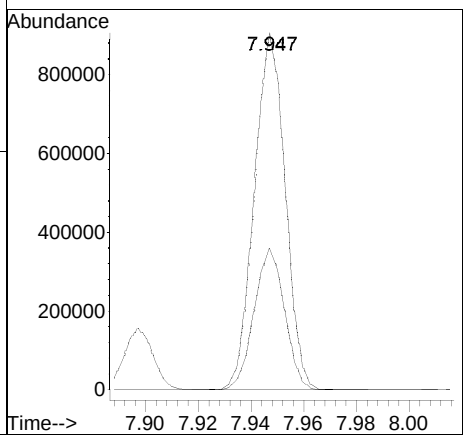


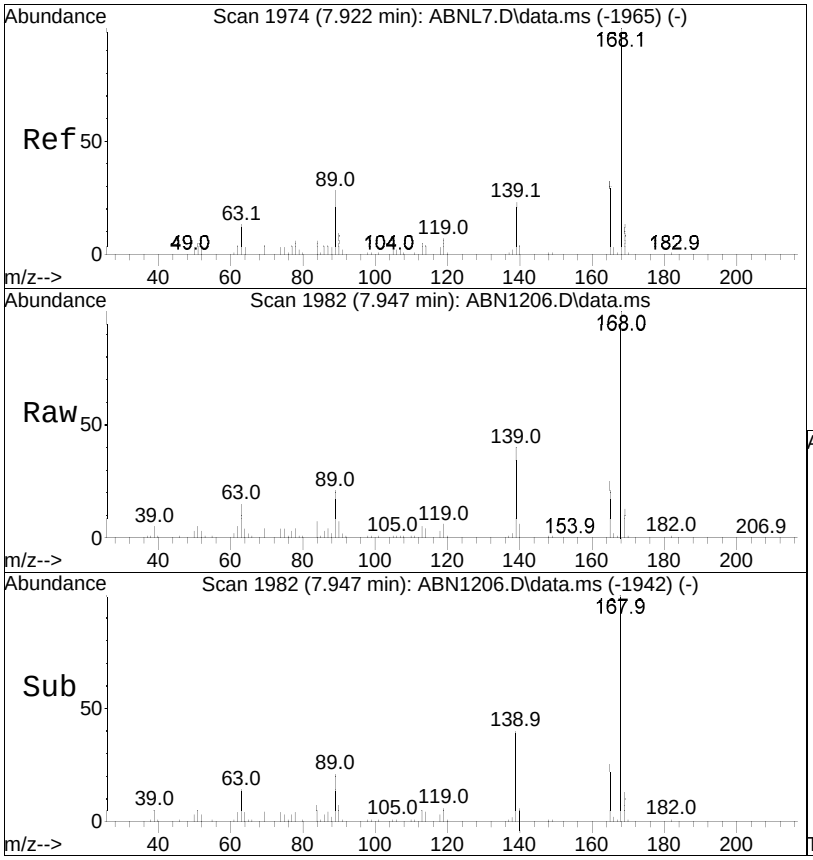


#66
Dibenzofuran
Concen: 48.31 ug/ml
RT: 7.947 min Scan# 1982
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion:168 Resp: 729929

Ion	Ratio	Lower	Upper
168	100		
139	39.3	32.3	48.5

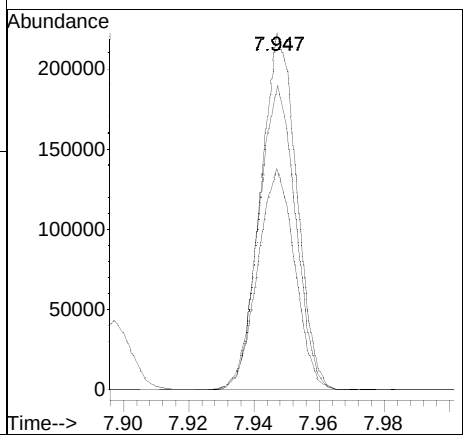


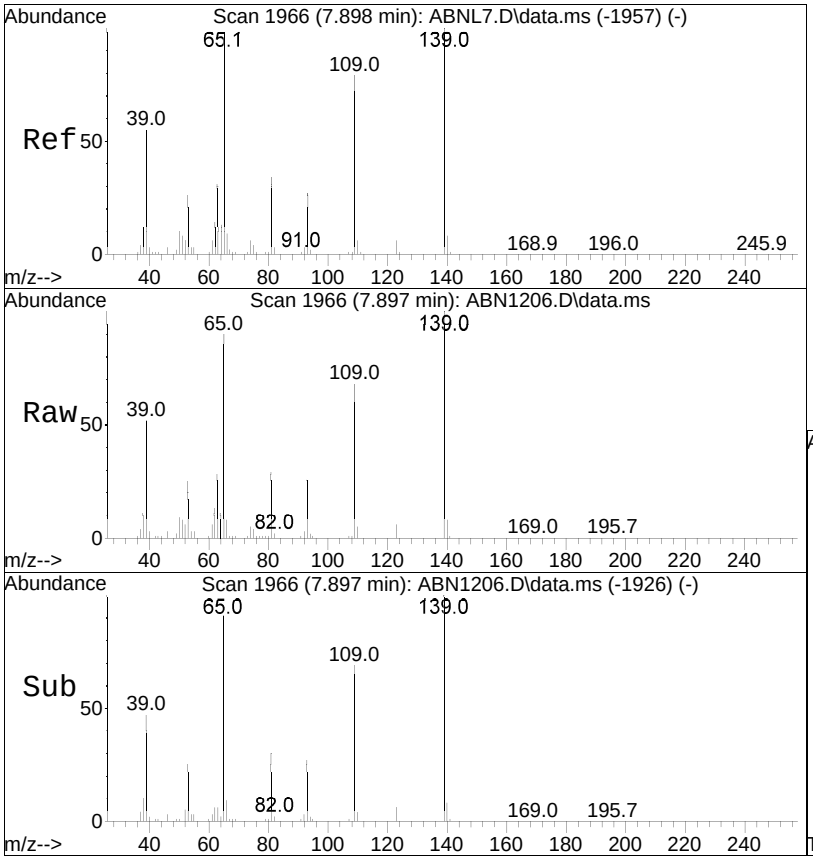


#67
2,4-Dinitrotoluene
Concen: 52.85 ug/ml
RT: 7.947 min Scan# 1982
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion:165 Resp: 169742

Ion	Ratio	Lower	Upper
165	100		
89	87.3	73.0	109.4
63	63.5	56.3	84.5

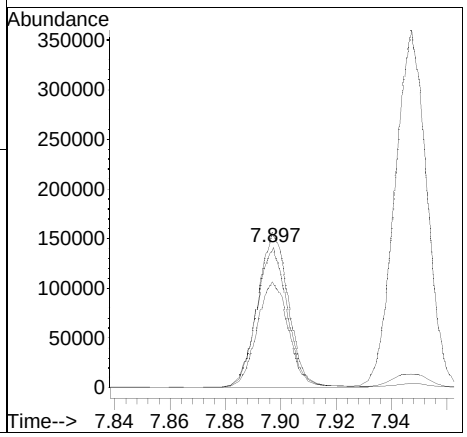


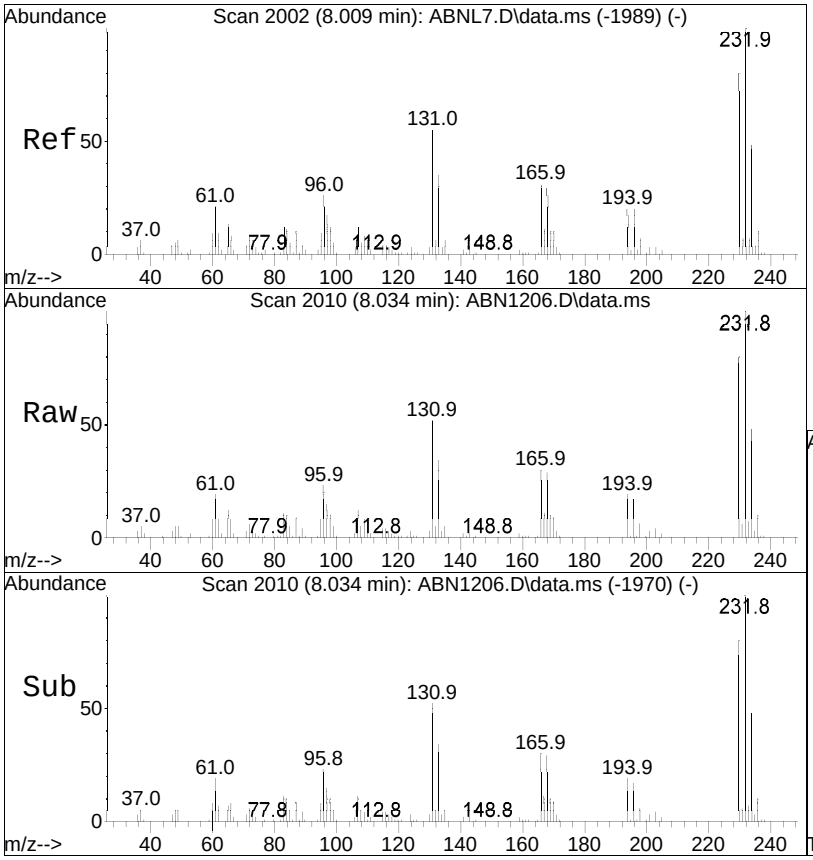


#68
4-Nitrophenol
Concen: 45.47 ug/ml
RT: 7.897 min Scan# 1966
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion: 65 Resp: 110474

Ion	Ratio	Lower	Upper
65	100		
109	77.3	60.2	90.2
139	110.2	81.1	121.7

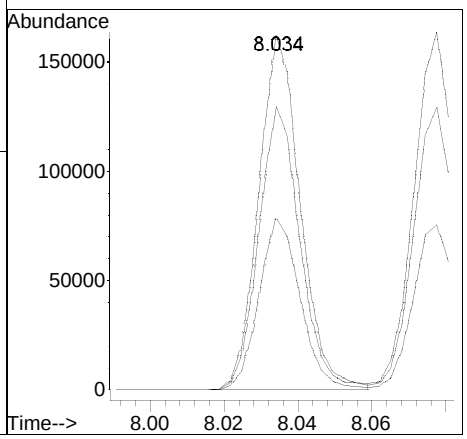


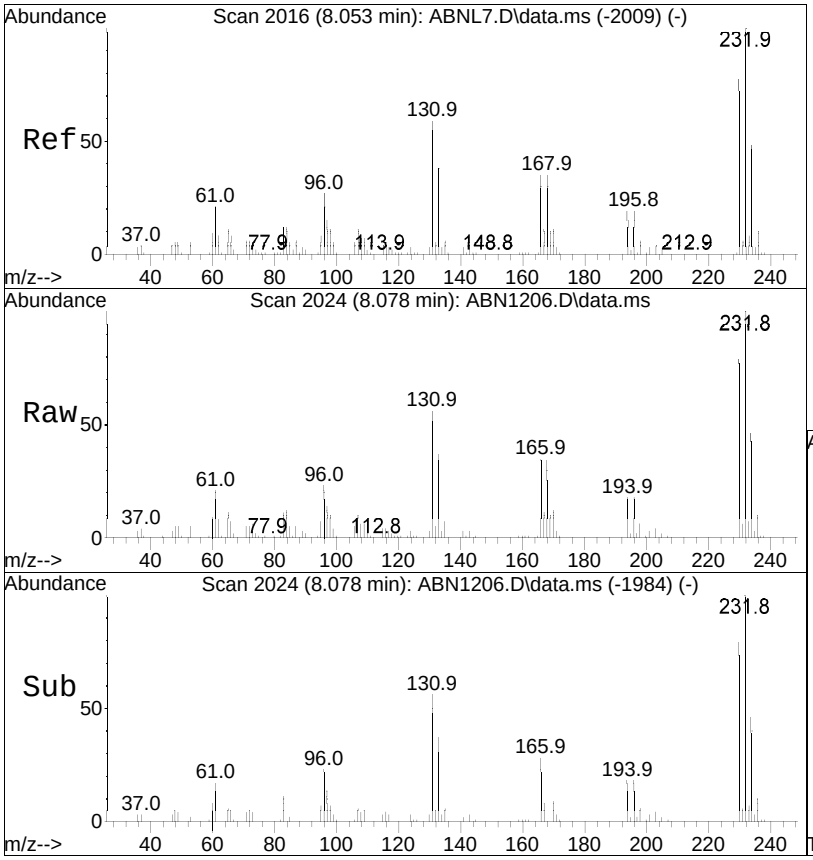


#69
2,3,5,6-Tetrachlorophenol
Concen: 48.65 ug/ml
RT: 8.034 min Scan# 2010
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion:232 Resp: 127329

Ion	Ratio	Lower	Upper
232	100		
230	79.4	63.8	95.8
234	48.0	38.3	57.5

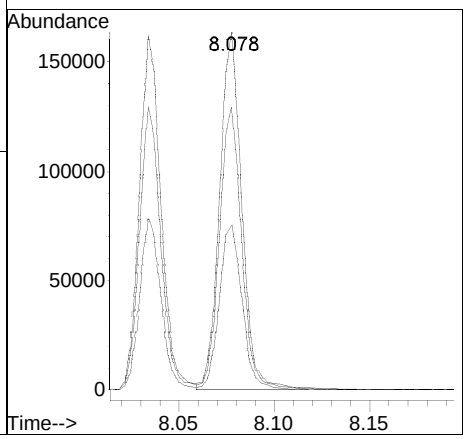


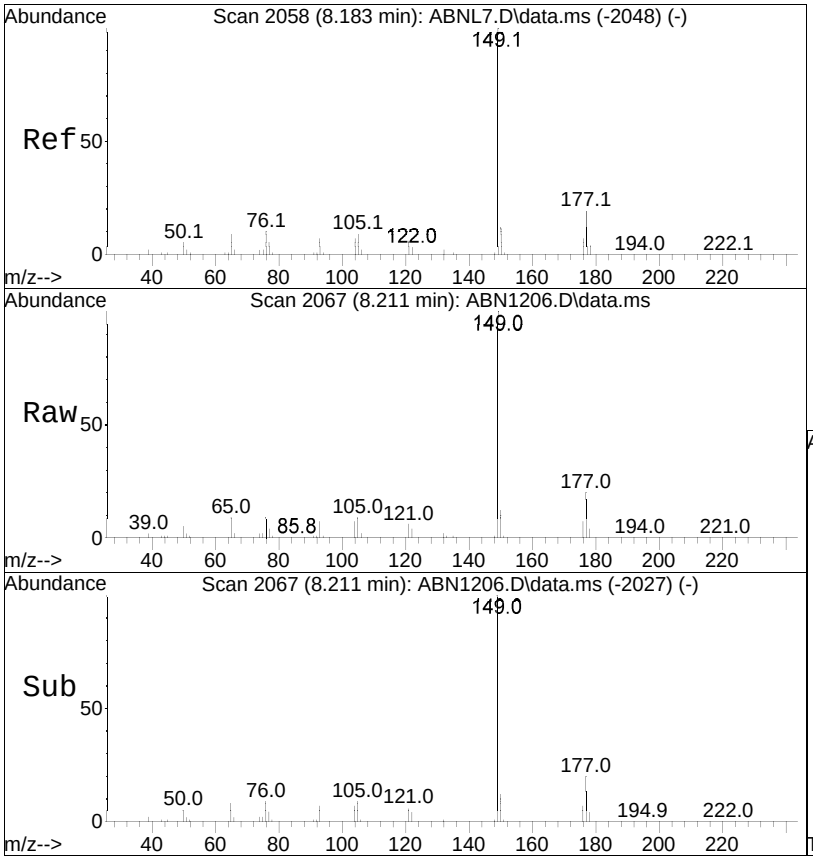


#70
2,3,4,6-Tetrachlorophenol
Concen: 49.82 ug/ml
RT: 8.078 min Scan# 2024
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion:232 Resp: 132305

Ion	Ratio	Lower	Upper
232	100		
230	78.8	63.8	95.8
234	47.3	39.0	58.6

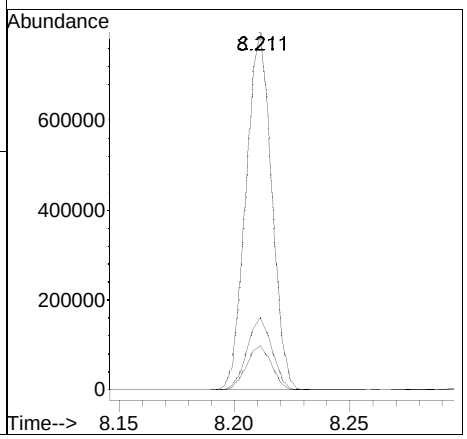


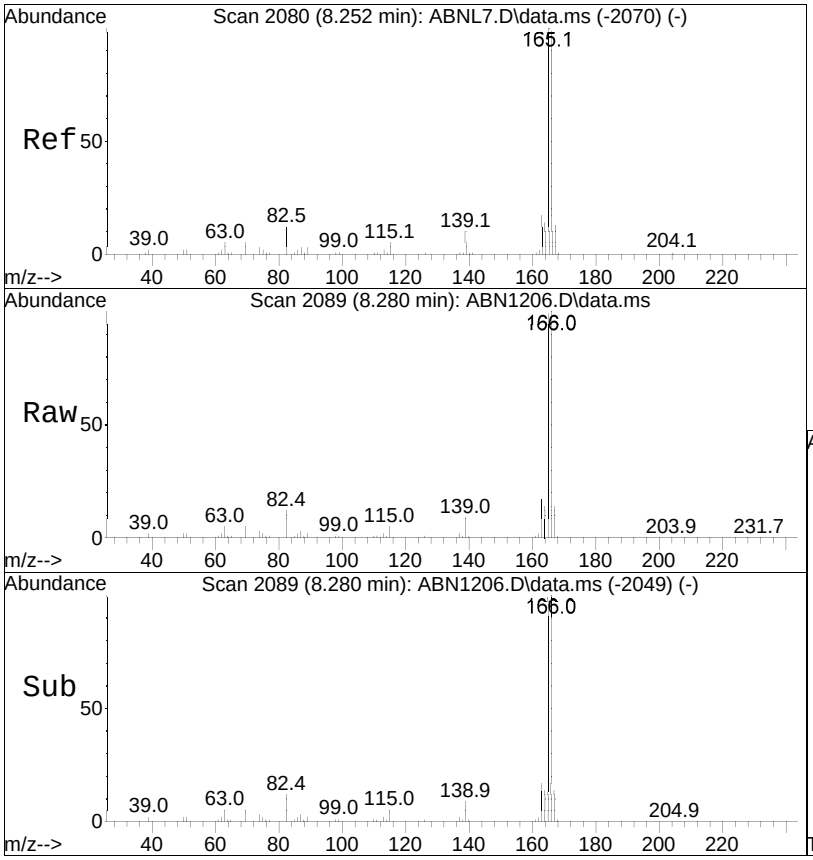


#71
Diethyl phthalate
Concen: 49.14 ug/ml
RT: 8.211 min Scan# 2067
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion:149 Resp: 610907

Ion	Ratio	Lower	Upper
149	100		
177	19.8	15.0	22.6
150	12.2	9.8	14.6

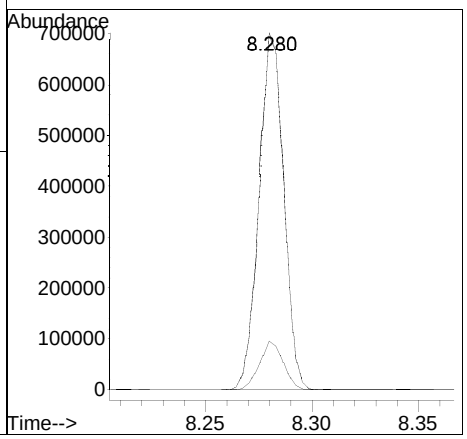


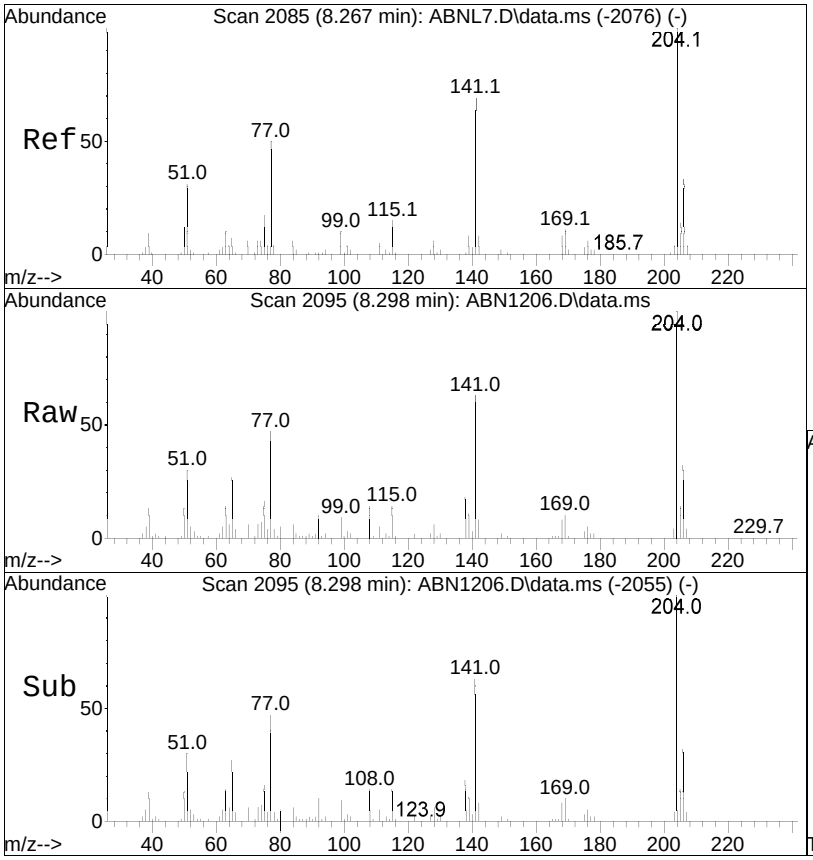


#72
Fluorene
Concen: 48.89 ug/ml
RT: 8.280 min Scan# 2089
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion:166 Resp: 564818

Ion	Ratio	Lower	Upper
166	100		
165	100.1	80.0	120.0
167	13.4	10.7	16.1

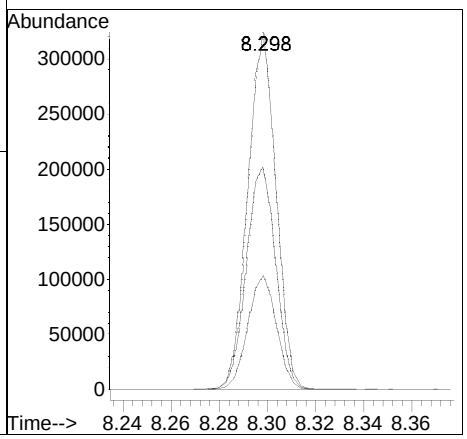


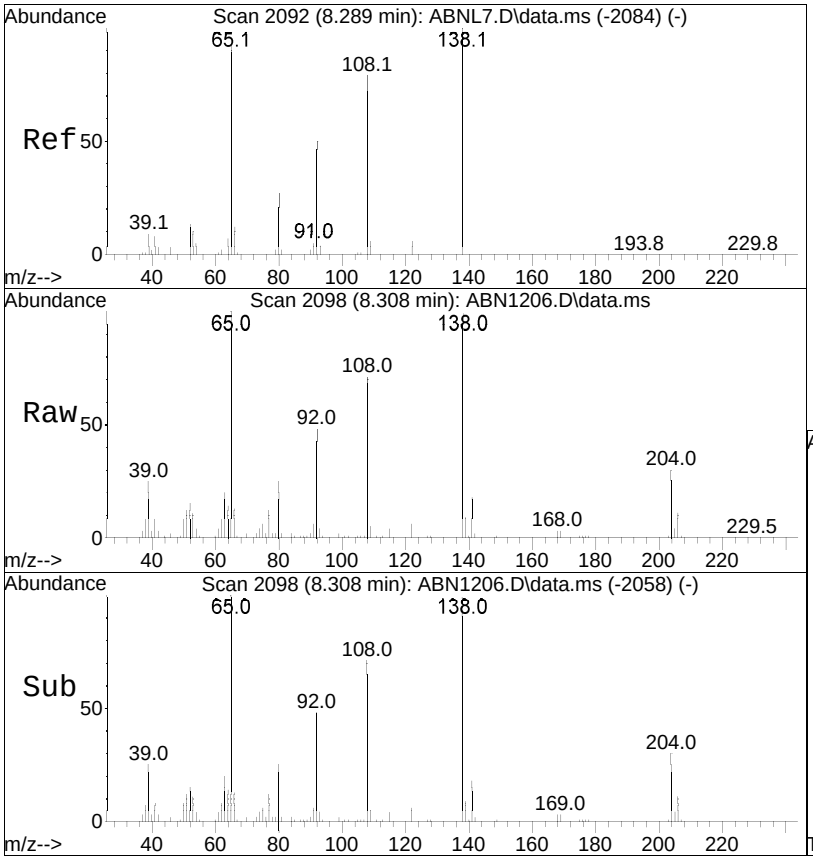


#73
4-Chlorophenyl phenyl ether
Concen: 48.33 ug/ml
RT: 8.298 min Scan# 2095
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion:204 Resp: 261723

Ion	Ratio	Lower	Upper
204	100		
206	32.6	26.3	39.5
141	65.2	58.4	87.6

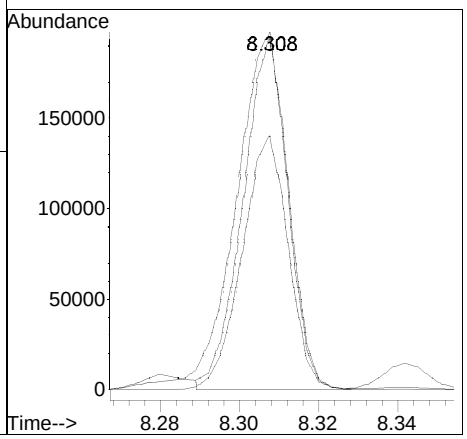


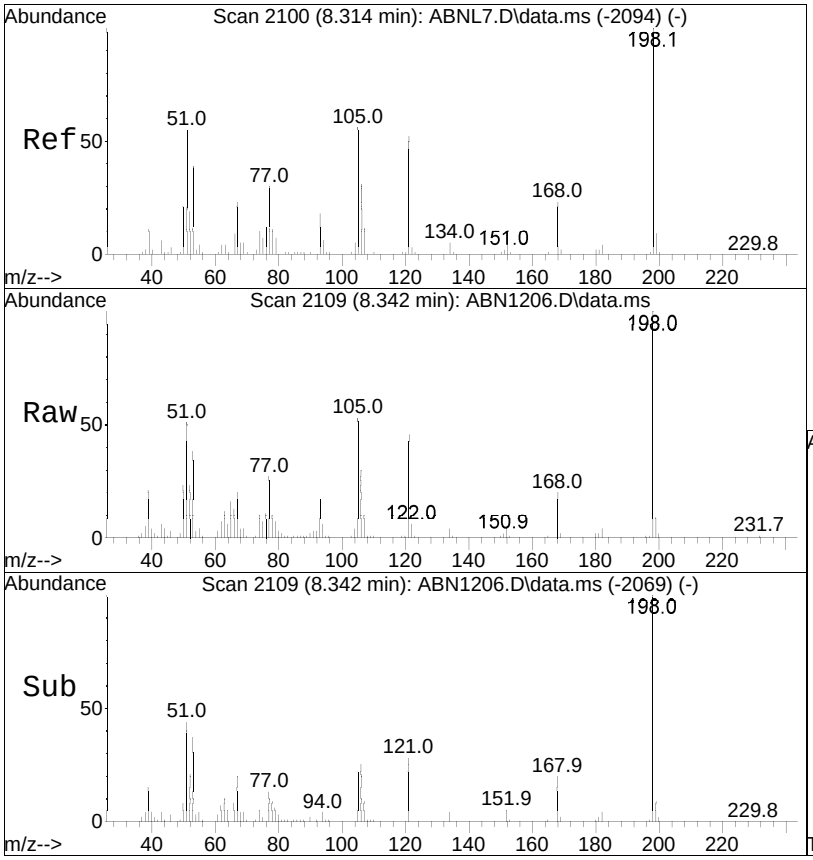


#74
4-Nitroaniline
Concen: 48.96 ug/ml
RT: 8.308 min Scan# 2098
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion:138 Resp: 154910

Ion	Ratio	Lower	Upper
138	100		
108	73.3	59.2	88.8
65	115.5	97.6	146.4

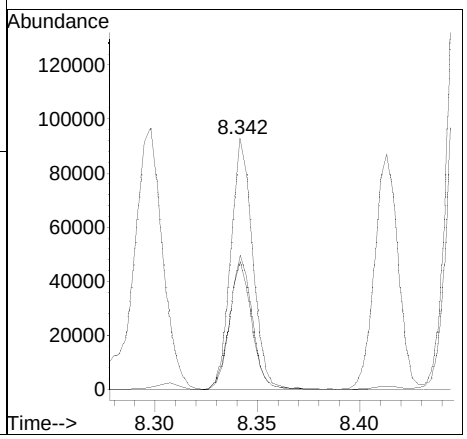


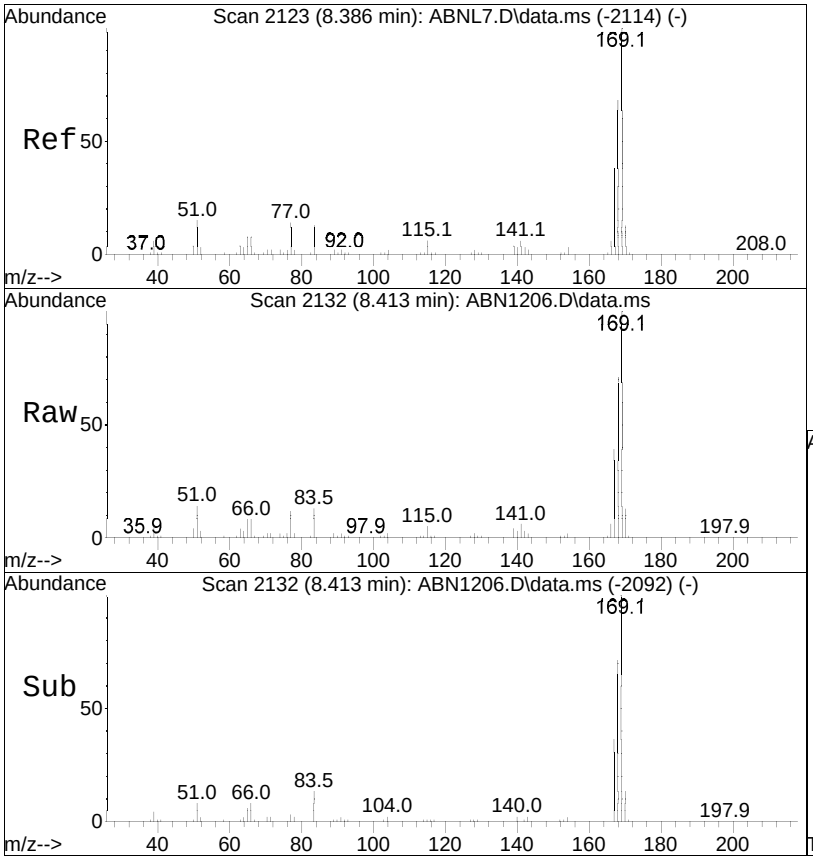


#75
4,6-Dinitro-o-cresol
Concen: 43.20 ug/ml
RT: 8.342 min Scan# 2109
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion:198 Resp: 69902

Ion	Ratio	Lower	Upper
198	100		
51	51.2	49.9	74.9
105	53.1	45.8	68.6

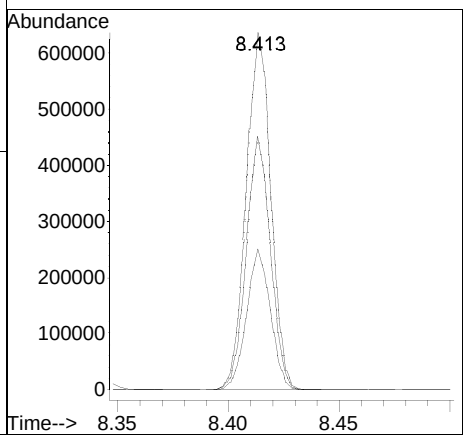


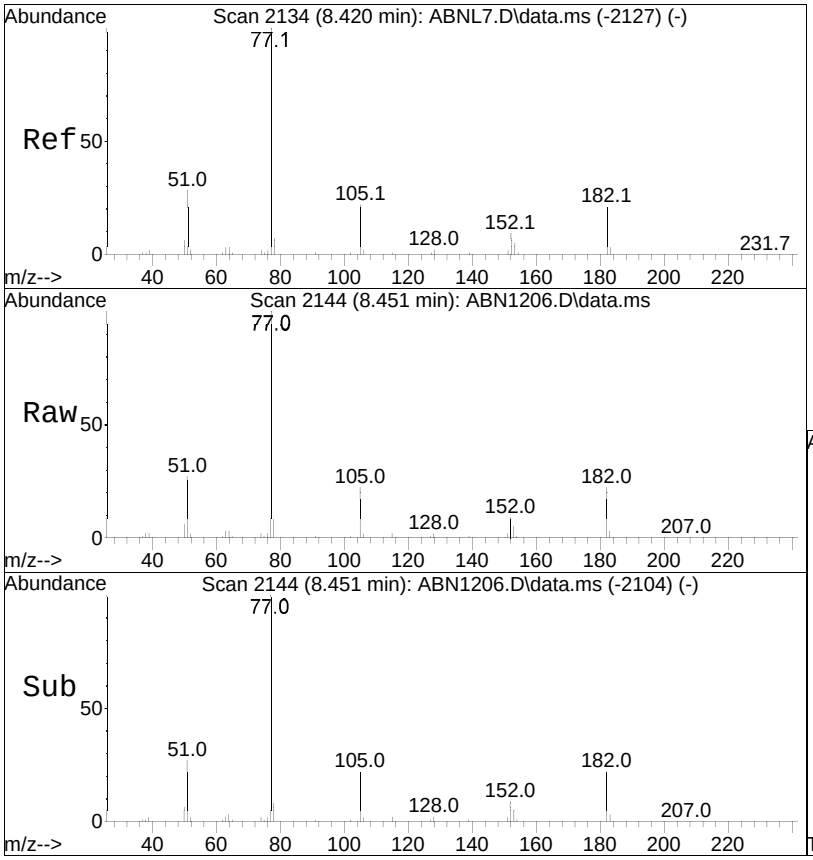


#76
NDPA/DPA
Concen: 49.18 ug/ml
RT: 8.413 min Scan# 2132
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion:169 Resp: 490970

Ion	Ratio	Lower	Upper
169	100		
168	69.6	55.2	82.8
167	38.3	30.4	45.6

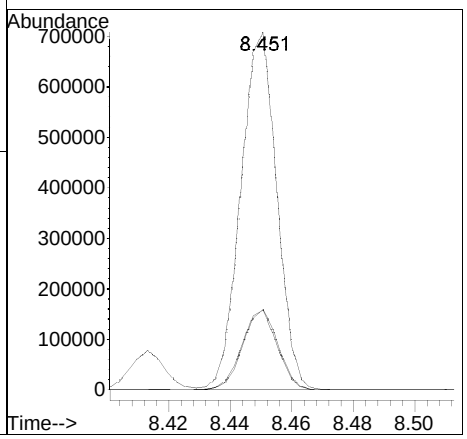


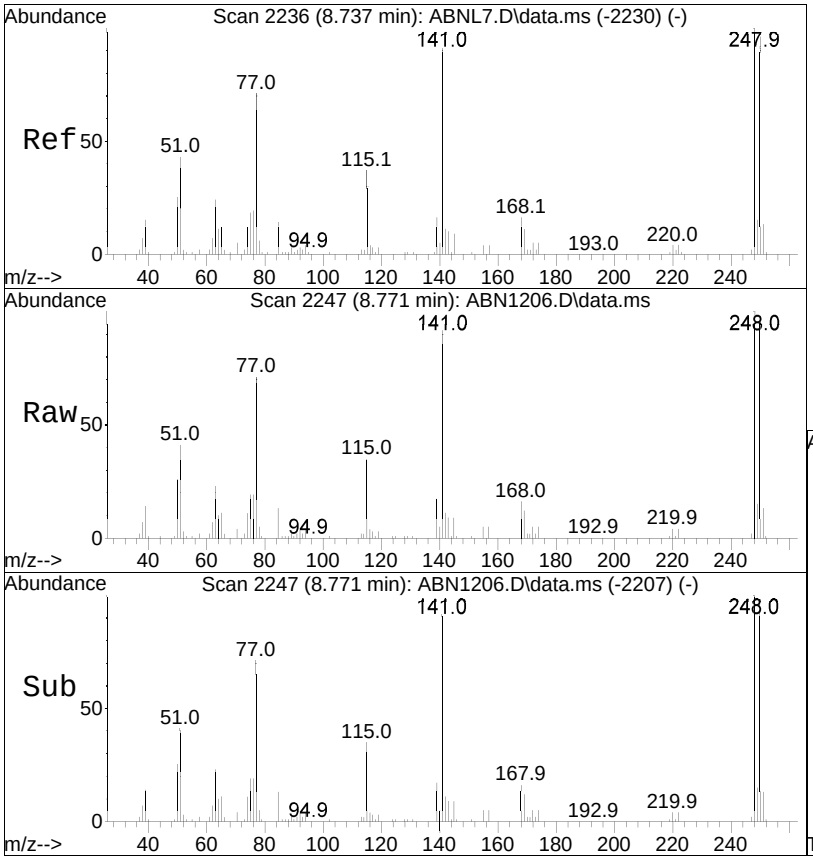


#77
Azobenzene
Concen: 47.95 ug/ml
RT: 8.451 min Scan# 2144
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion: 77 Resp: 568939

Ion	Ratio	Lower	Upper
77	100		
182	22.2	16.2	24.2
105	22.0	17.9	26.9

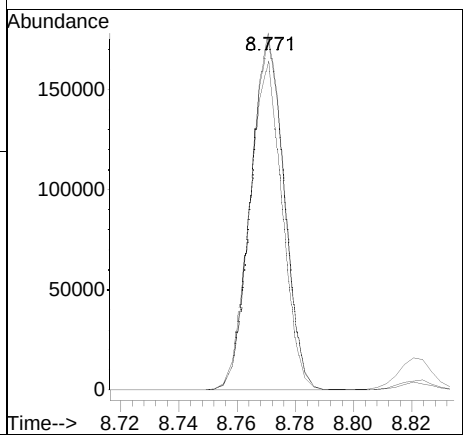


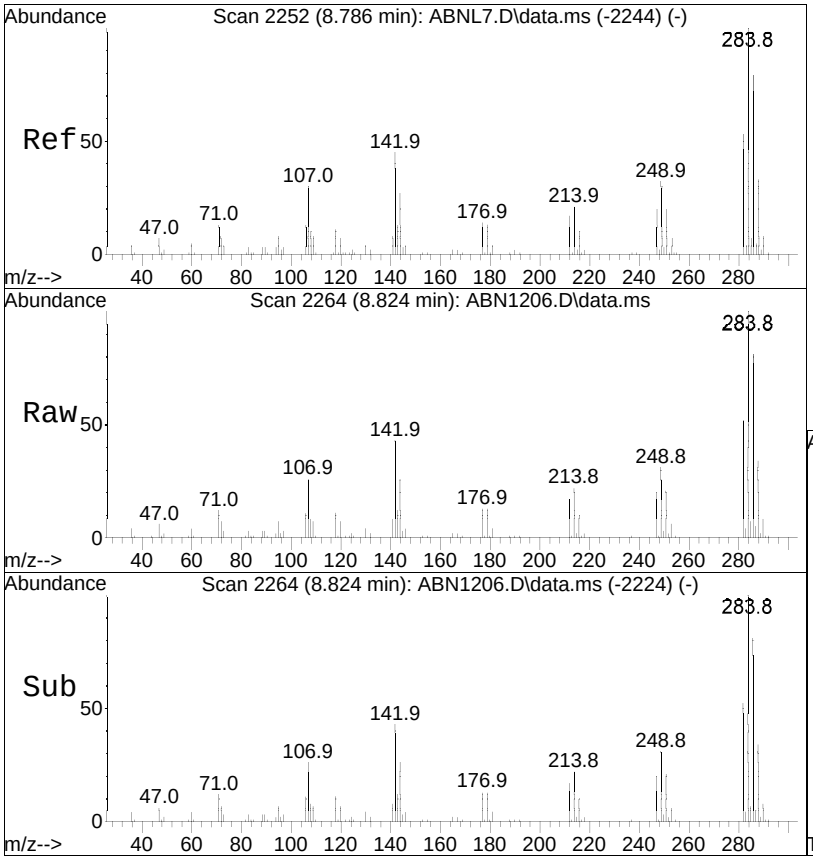


#79
4-Bromophenyl phenyl ether
Concen: 48.17 ug/ml
RT: 8.771 min Scan# 2247
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion:248 Resp: 140819

Ion	Ratio	Lower	Upper
248	100		
141	90.1	74.6	111.8
250	97.8	76.9	115.3

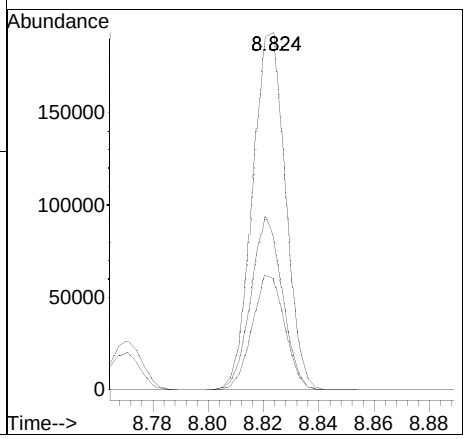


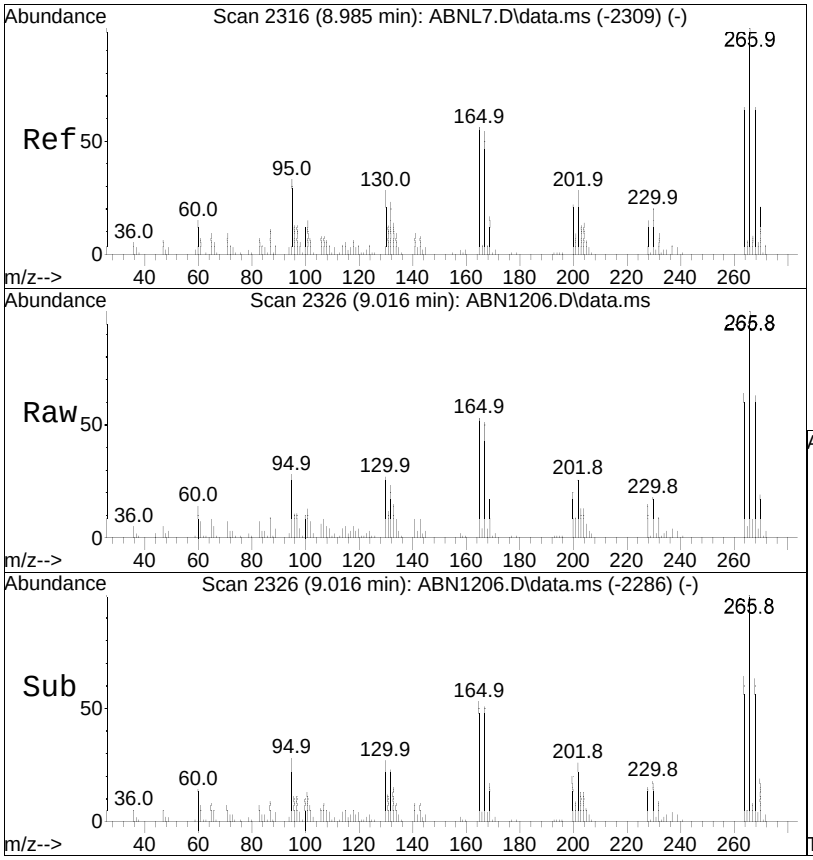


#80
Hexachlorobenzene
Concen: 49.31 ug/ml
RT: 8.824 min Scan# 2264
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion:284 Resp: 159349

Ion	Ratio	Lower	Upper
284	100		
142	46.4	37.6	56.4
249	31.9	25.4	38.2

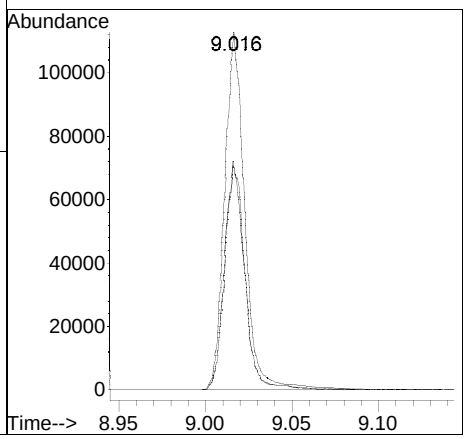


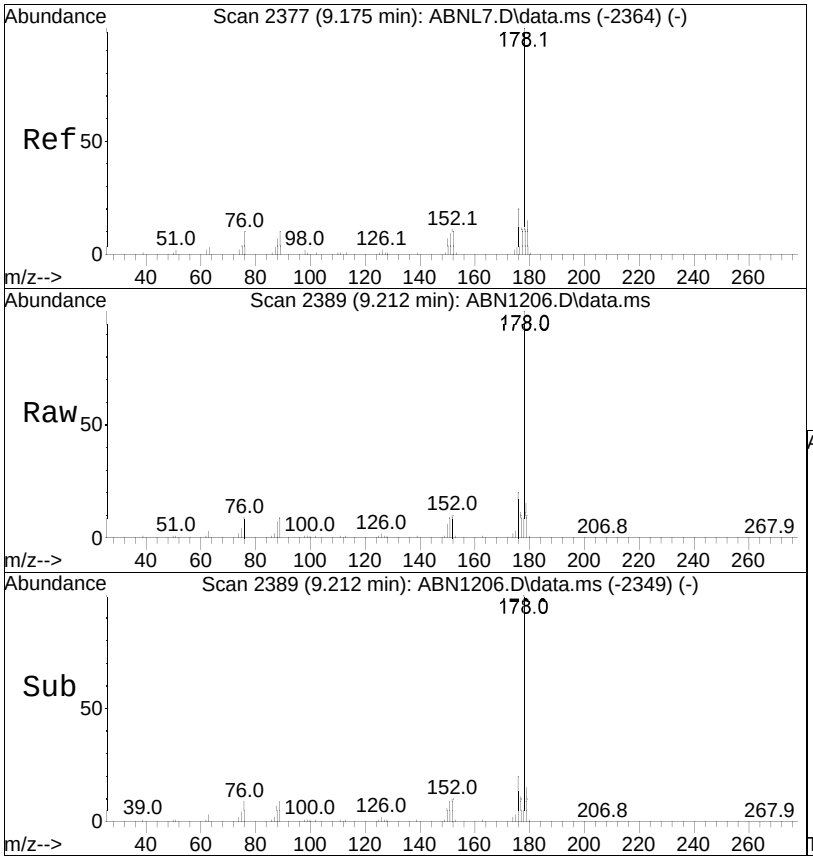


#81
Pentachlorophenol
Concen: 43.92 ug/ml
RT: 9.016 min Scan# 2326
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion:266 Resp: 90617

Ion	Ratio	Lower	Upper
266	100		
264	62.9	50.7	76.1
268	63.8	52.5	78.7

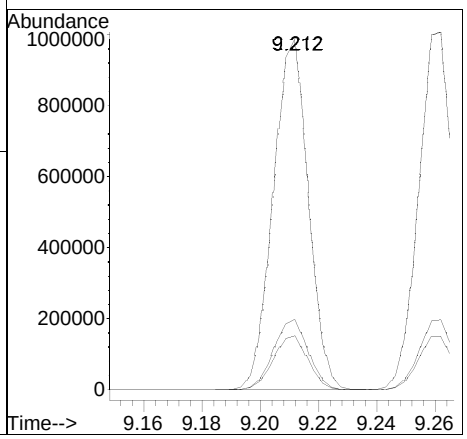


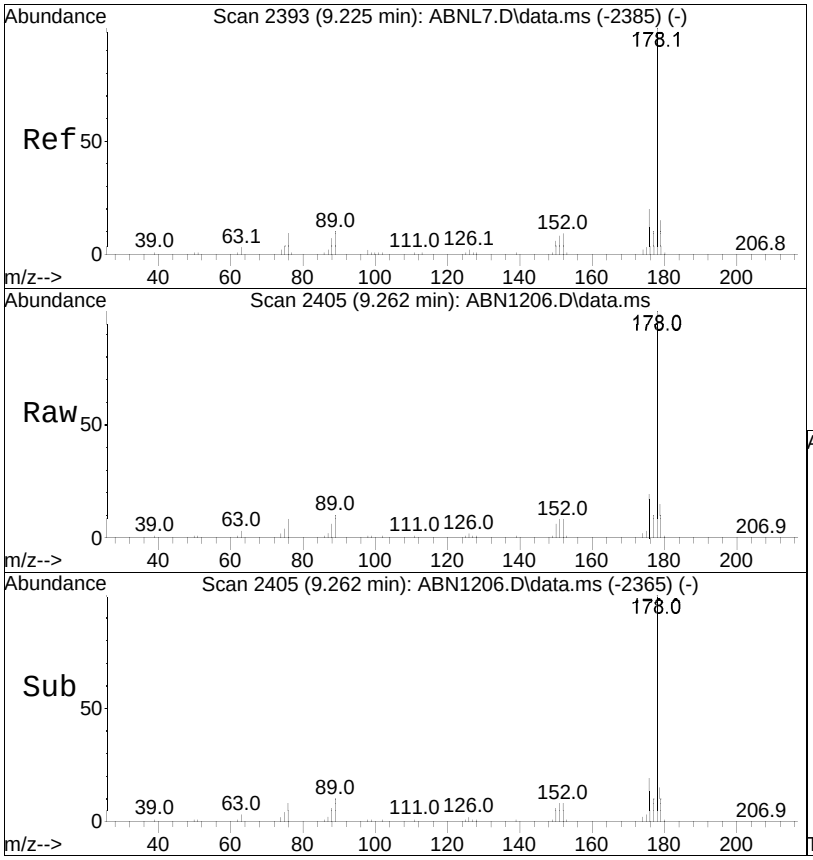


#88
Phenanthrene
Concen: 48.00 ug/ml
RT: 9.212 min Scan# 2389
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion:178 Resp: 828514

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.3	18.5
176	19.8	15.4	23.2

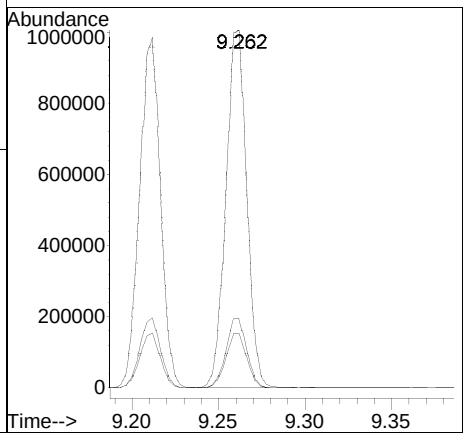


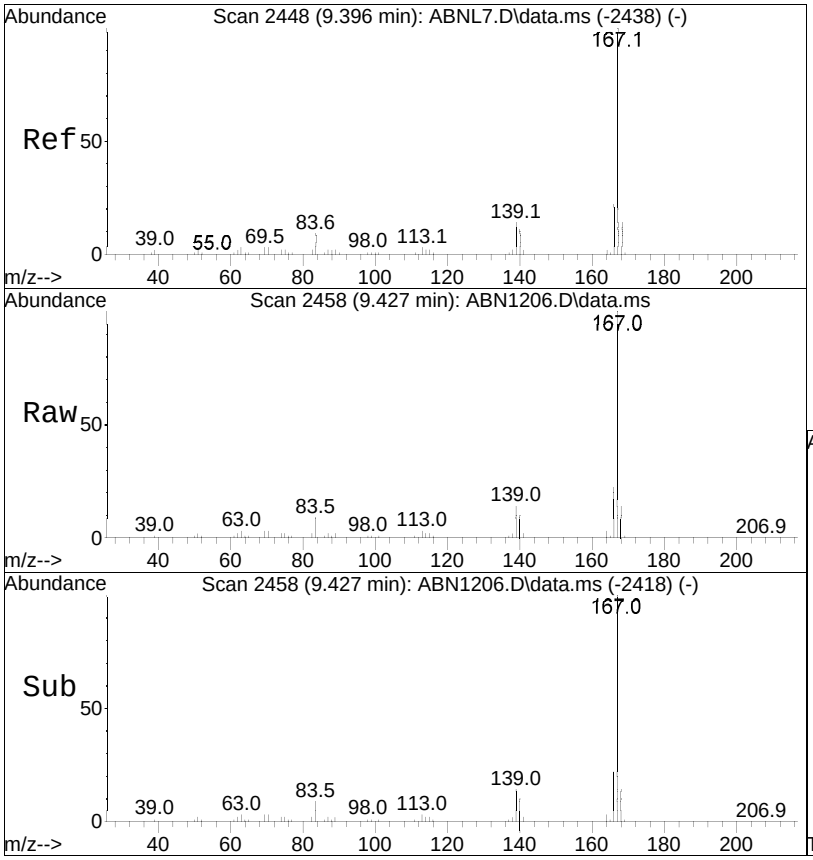


#89
Anthracene
Concen: 50.04 ug/ml
RT: 9.262 min Scan# 2405
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion:178 Resp: 840765

Ion	Ratio	Lower	Upper
178	100		
179	15.2	12.2	18.2
176	19.2	15.1	22.7

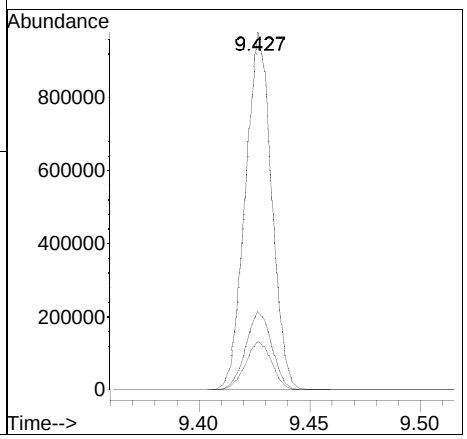


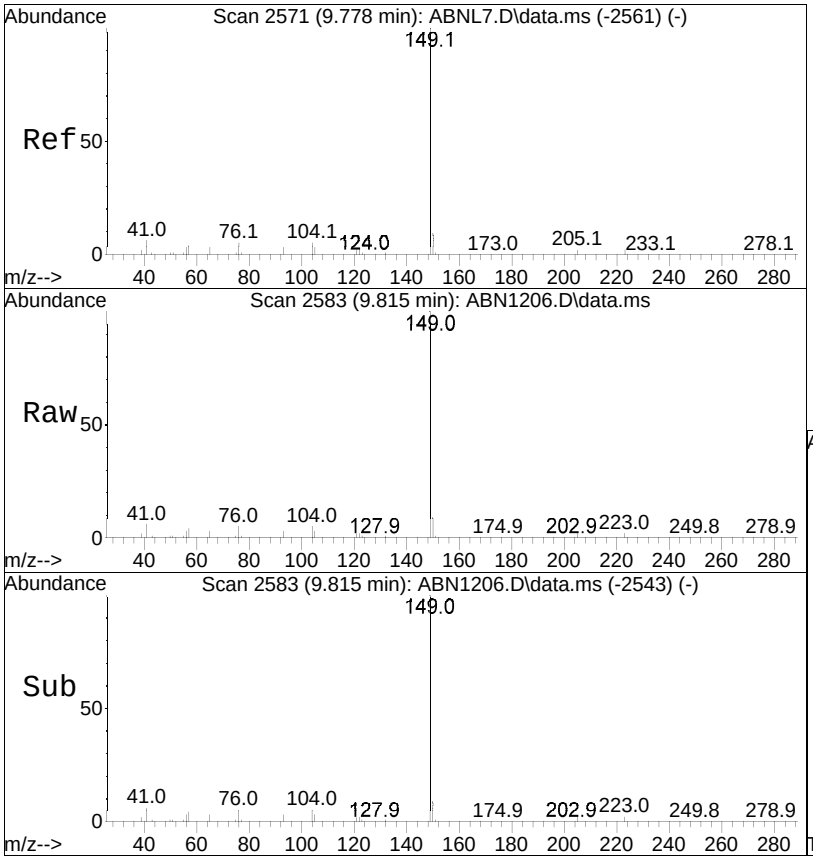


#90
Carbazole
Concen: 49.92 ug/ml
RT: 9.427 min Scan# 2458
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion:167 Resp: 799695

Ion	Ratio	Lower	Upper
167	100		
168	13.6	10.8	16.2
166	21.9	17.7	26.5

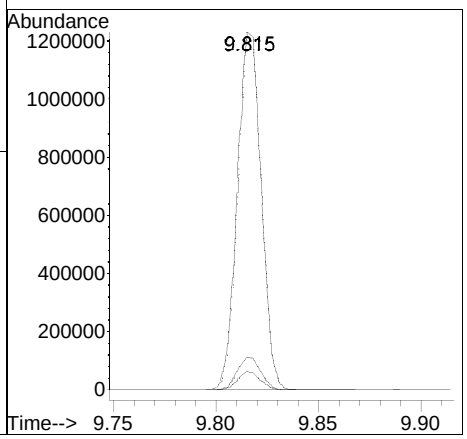


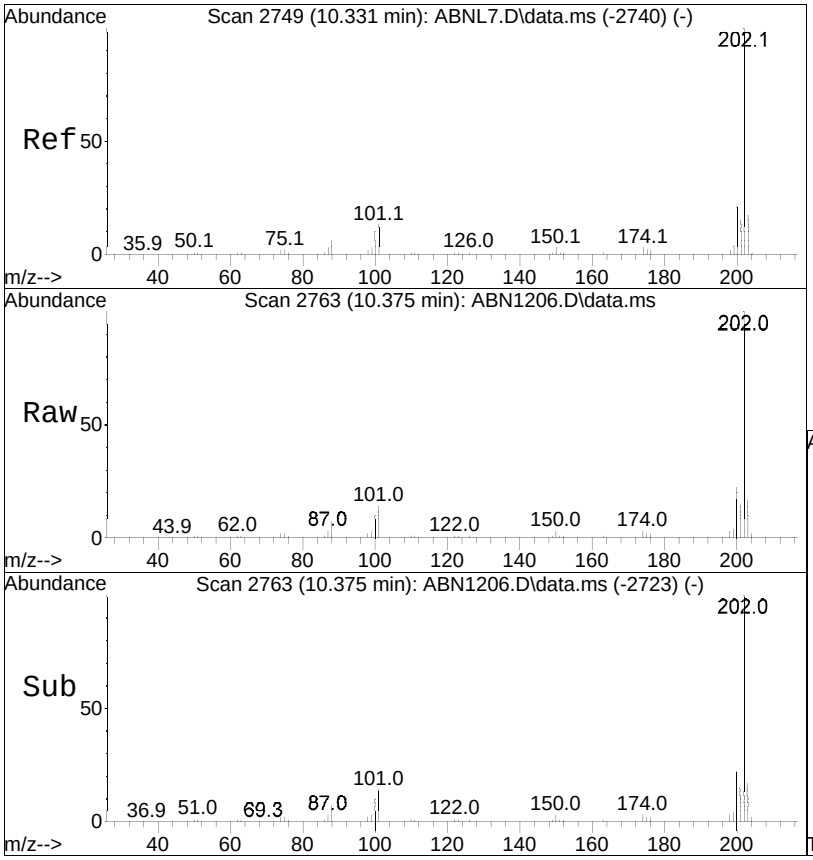


#91
Di-n-butylphthalate
Concen: 52.83 ug/ml
RT: 9.815 min Scan# 2583
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion:149 Resp: 978199

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.3	10.9
104	4.9	4.0	6.0

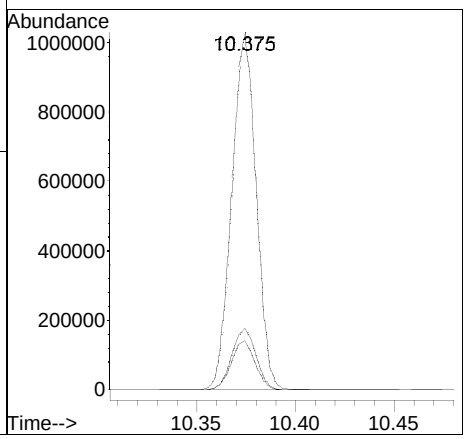


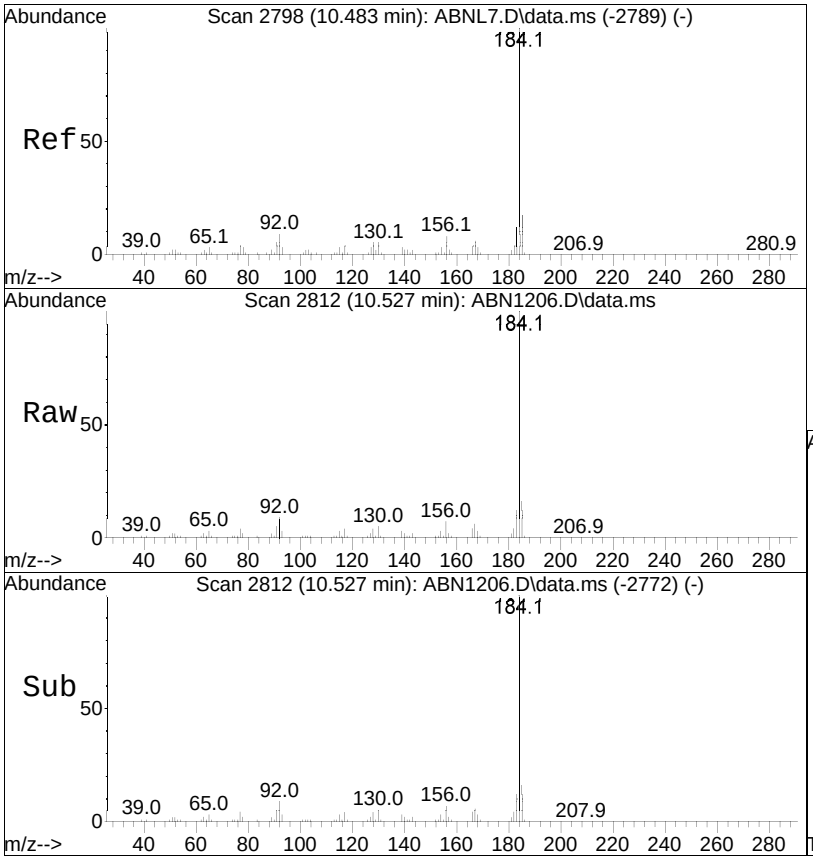


#92
Fluoranthene
Concen: 50.61 ug/ml
RT: 10.375 min Scan# 2763
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion:202 Resp: 870211

Ion	Ratio	Lower	Upper
202	100		
101	13.6	11.2	16.8
203	17.2	13.7	20.5

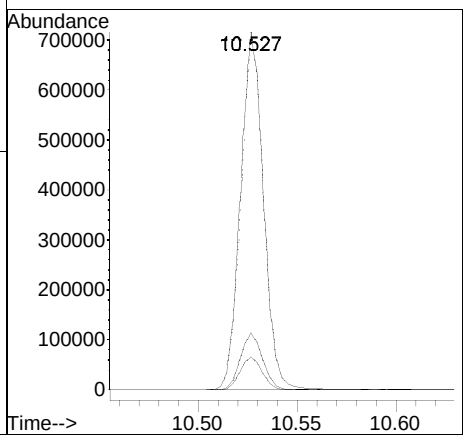


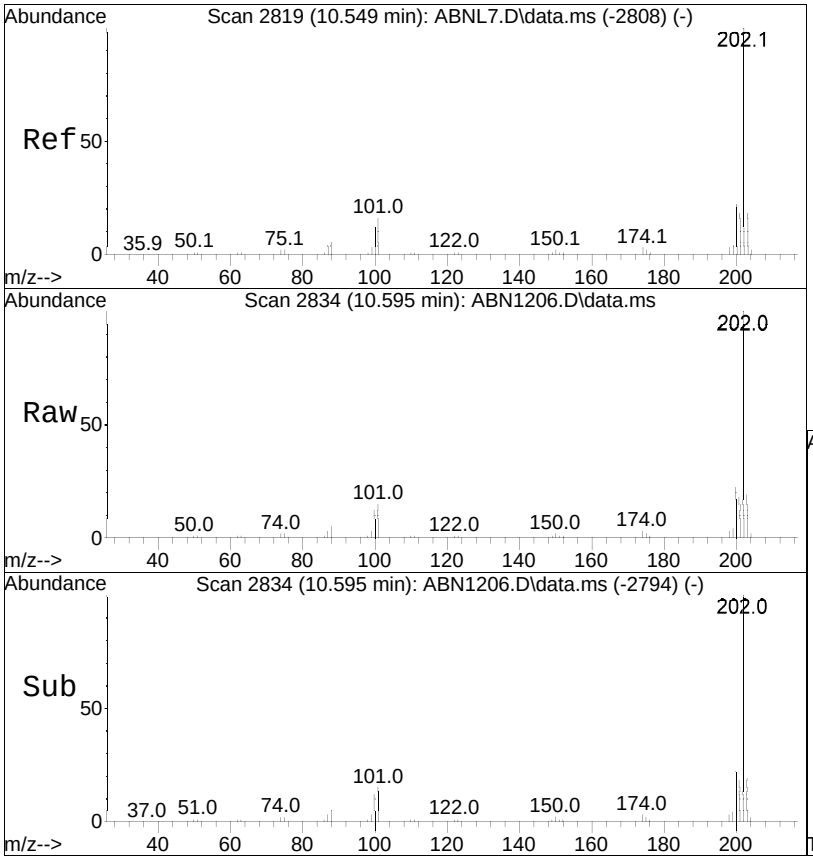


#93
Benzidine
Concen: 48.30 ug/ml
RT: 10.527 min Scan# 2812
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion:184 Resp: 570156

Ion	Ratio	Lower	Upper
184	100		
92	9.2	7.3	10.9
185	15.8	11.8	17.8

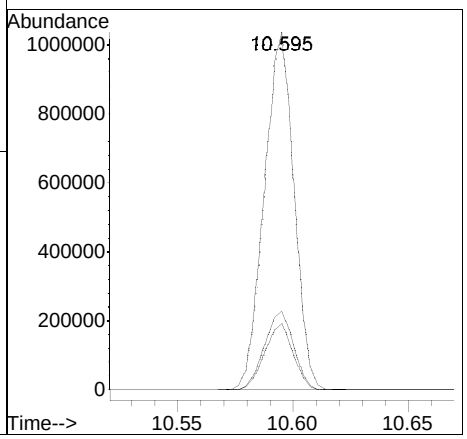


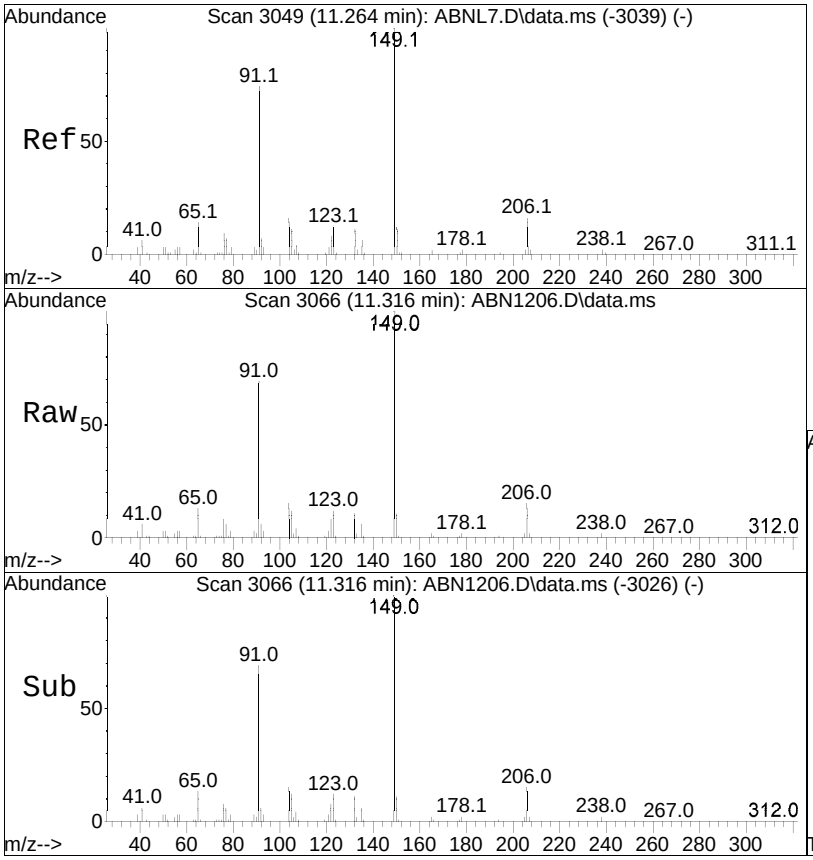


#94
Pyrene
Concen: 50.41 ug/ml
RT: 10.595 min Scan# 2834
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion:202 Resp: 916624

Ion	Ratio	Lower	Upper
202	100		
200	21.9	16.9	25.3
203	18.0	14.3	21.5

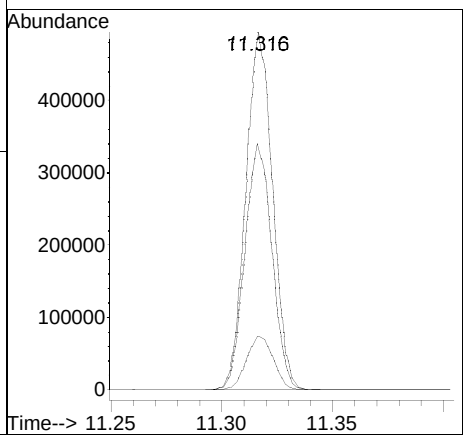


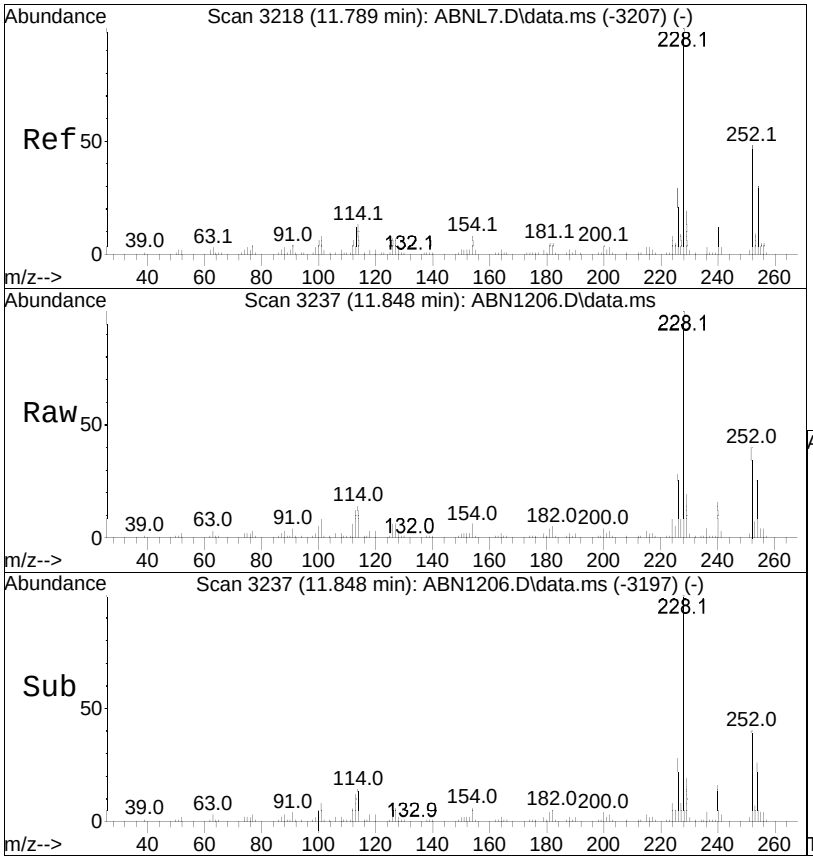


#96
Butyl benzyl phthalate
Concen: 47.47 ug/ml
RT: 11.316 min Scan# 3066
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion:149 Resp: 411071

Ion	Ratio	Lower	Upper
149	100		
91	69.8	57.9	86.9
206	15.2	11.9	17.9

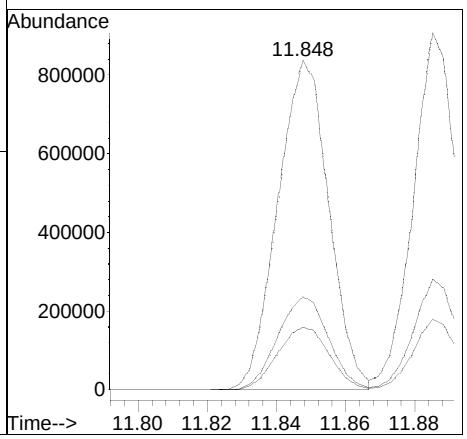


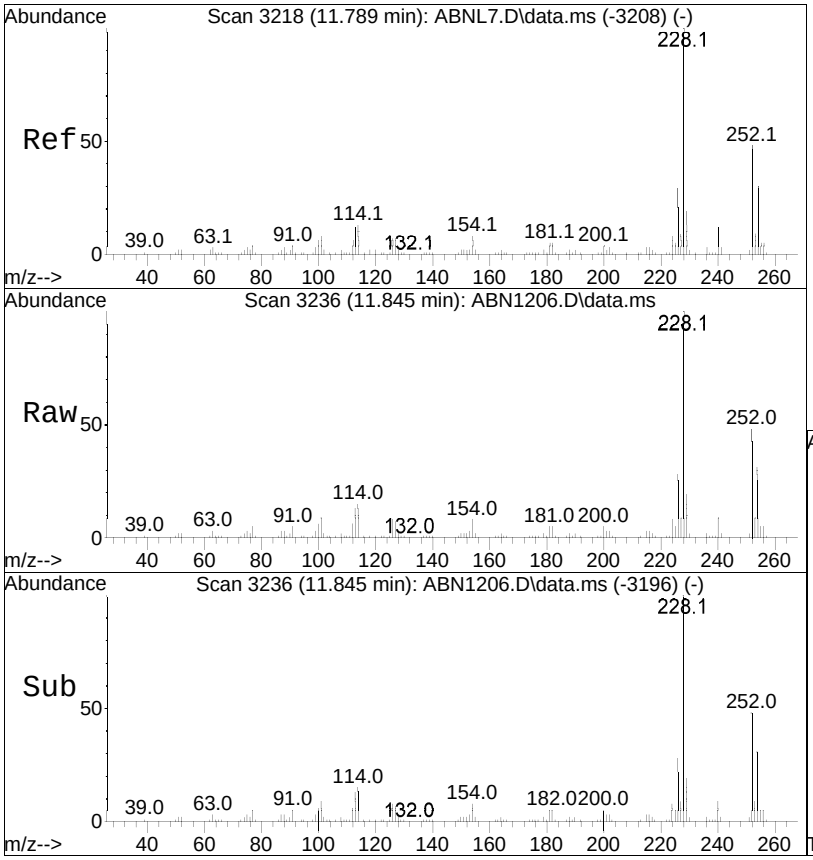


#104
Benzo(a)anthracene
Concen: 49.52 ug/ml
RT: 11.848 min Scan# 3237
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion:228 Resp: 857382

Ion	Ratio	Lower	Upper
228	100		
226	28.0	22.6	34.0
229	19.4	15.8	23.6

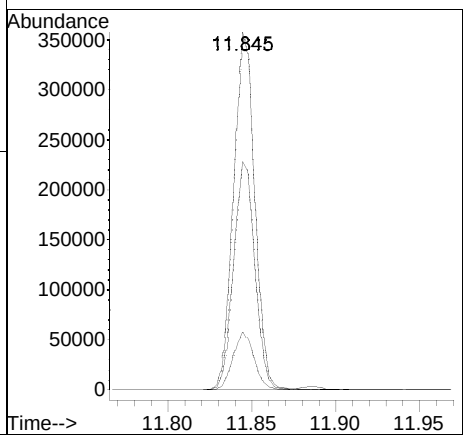


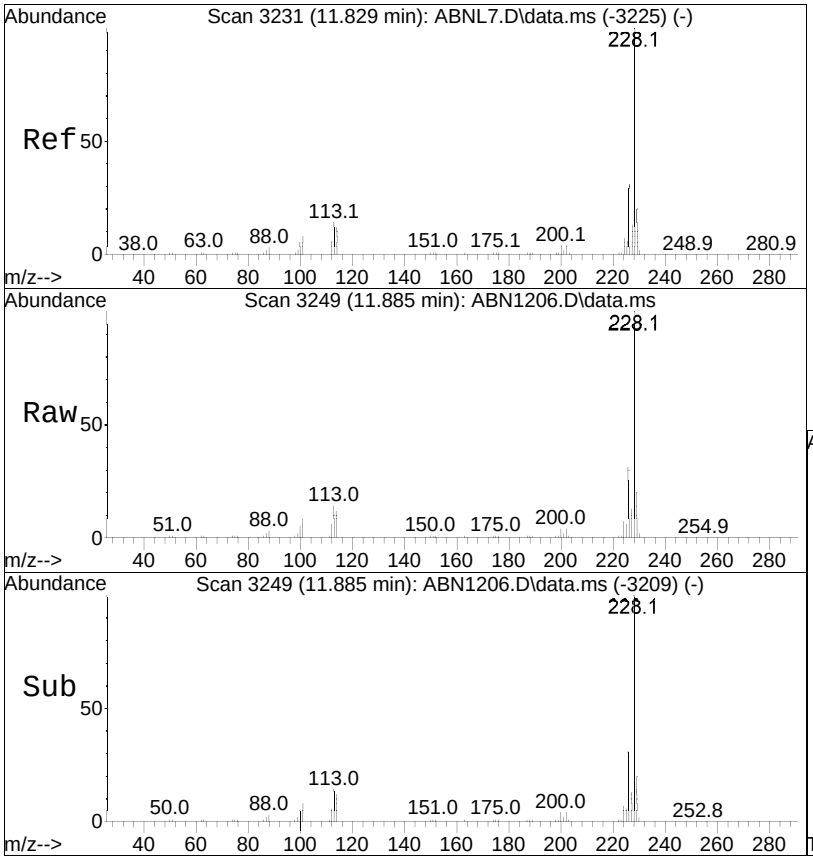


#105
3,3'-Dichlorobenzidine
Concen: 49.38 ug/ml
RT: 11.845 min Scan# 3236
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion:252 Resp: 311812

Ion	Ratio	Lower	Upper
252	100		
126	16.3	12.6	19.0
254	64.0	51.1	76.7

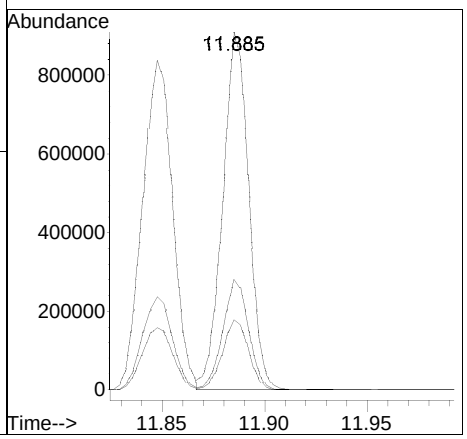


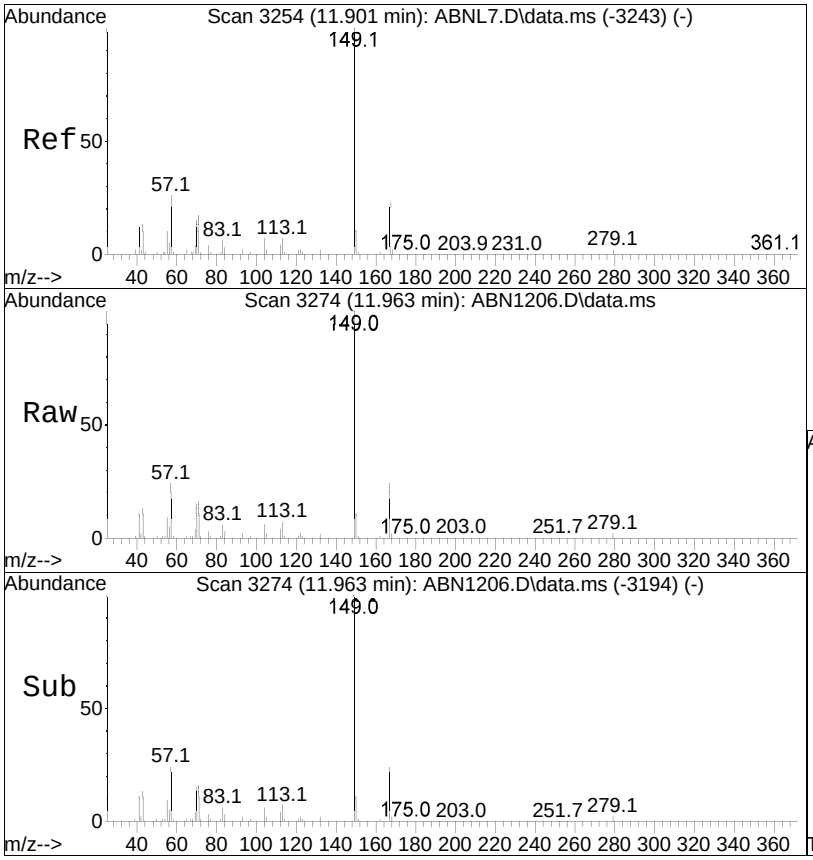


#106
Chrysene
Concen: 47.86 ug/ml
RT: 11.885 min Scan# 3249
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion:228 Resp: 801142

Ion	Ratio	Lower	Upper
228	100		
226	30.6	24.7	37.1
229	19.8	15.5	23.3

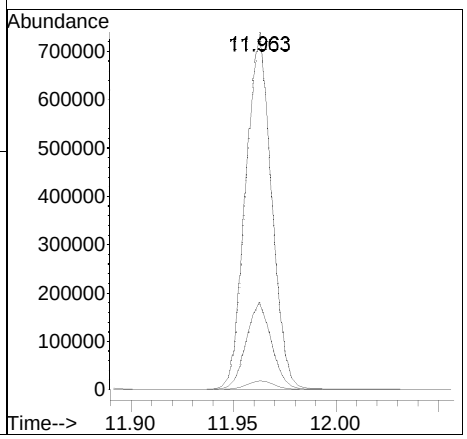


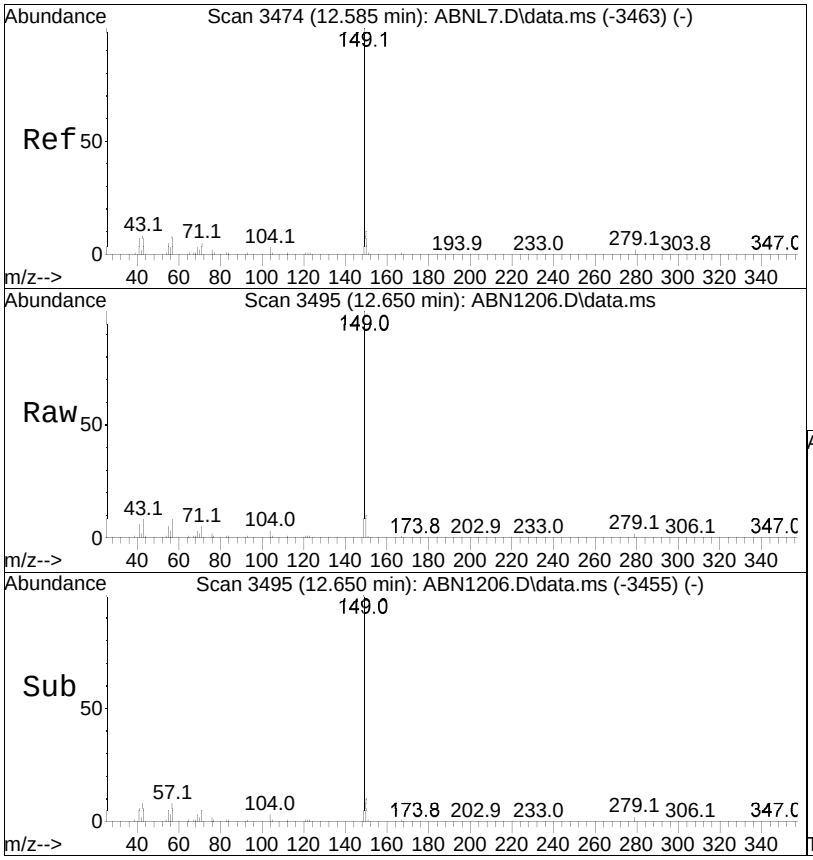


#107
Bis(2-ethylhexyl)phthalate
Concen: 45.84 ug/ml
RT: 11.963 min Scan# 3274
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion:149 Resp: 642197

Ion	Ratio	Lower	Upper
149	100		
167	24.0	18.4	27.6
279	2.4	1.7	2.5

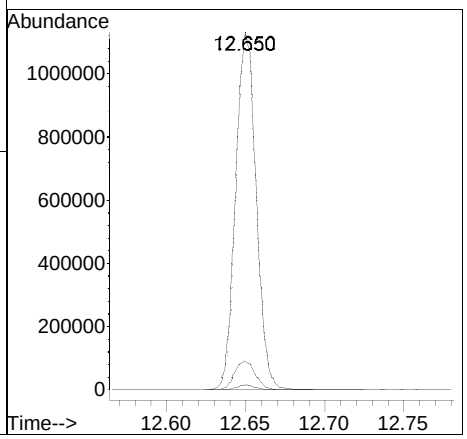


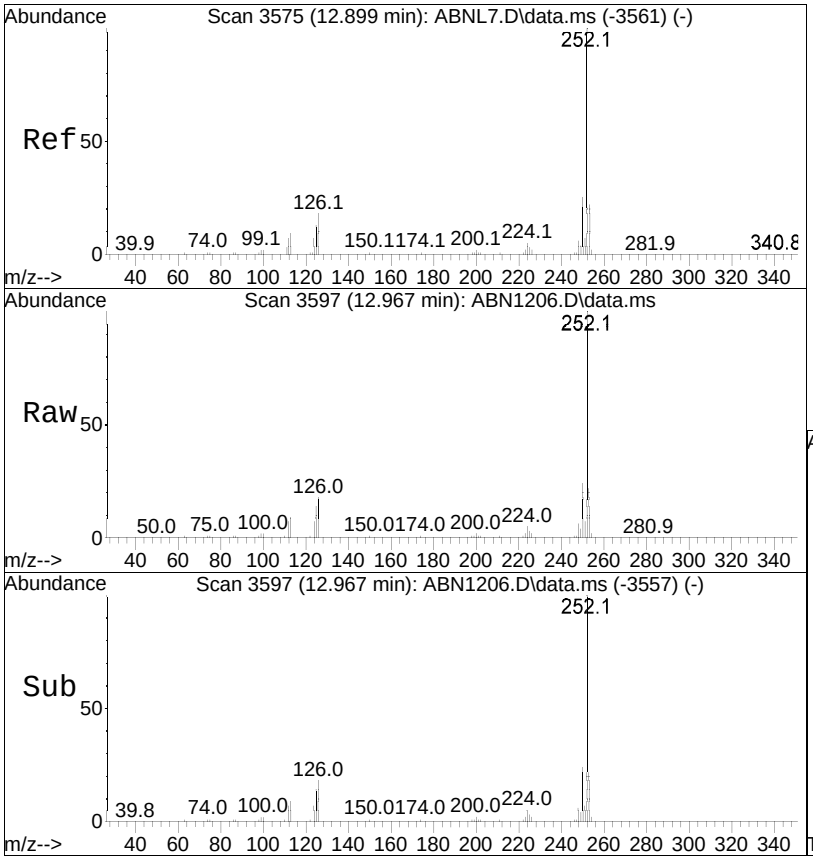


#108
Di-n-octylphthalate
Concen: 42.21 ug/ml
RT: 12.650 min Scan# 3495
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion:149 Resp: 1007509

Ion	Ratio	Lower	Upper
149	100		
43	8.4	8.2	12.2
167	1.4	1.1	1.7

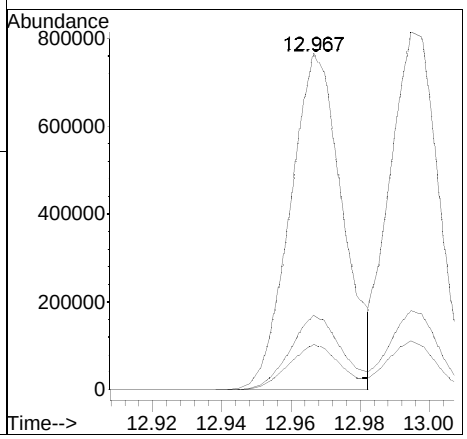


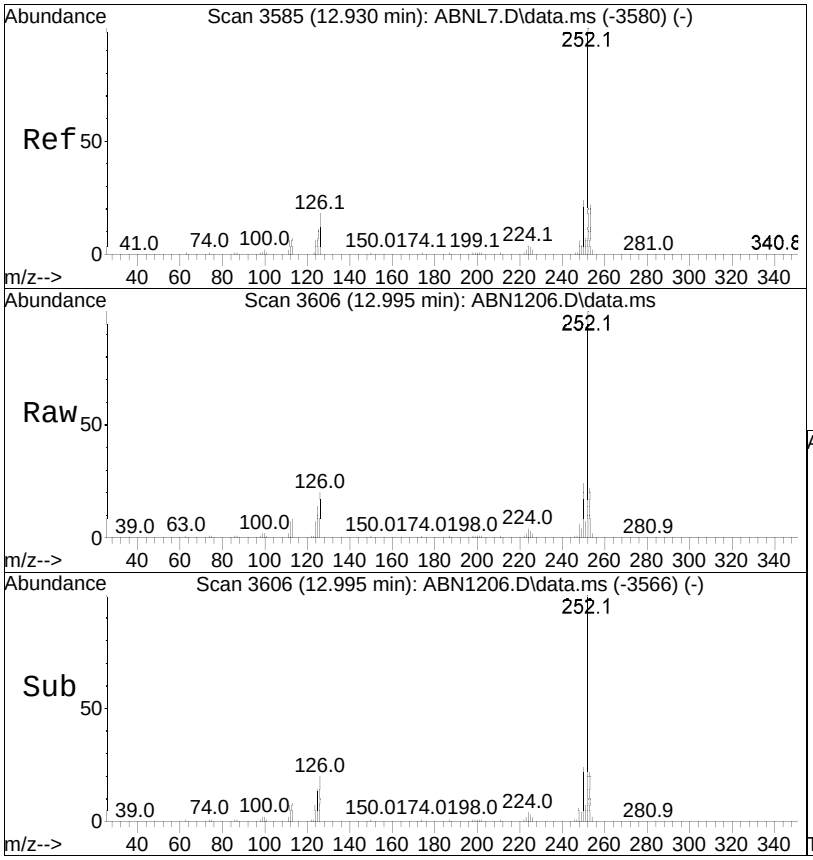


#109
Benzo(b)fluoranthene
Concen: 52.60 ug/ml
RT: 12.967 min Scan# 3597
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion:252 Resp: 810199

Ion	Ratio	Lower	Upper
252	100		
125	13.1	11.3	16.9
253	21.9	17.8	26.8

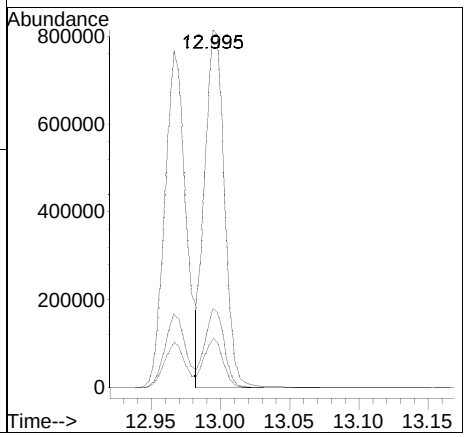


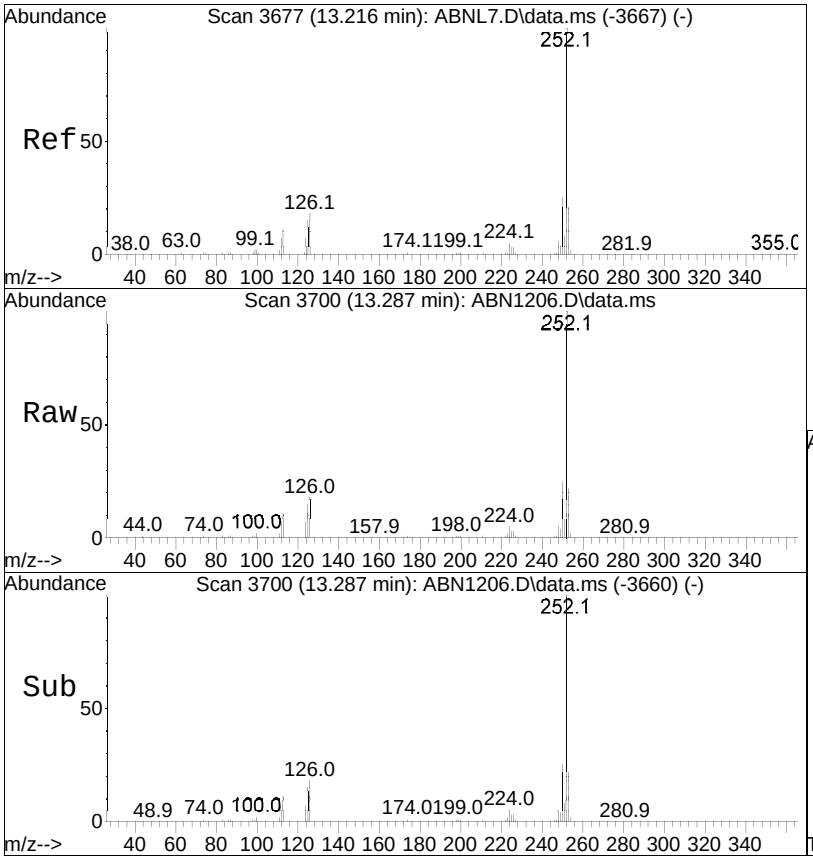


#110
Benzo(k)fluoranthene
Concen: 50.50 ug/ml
RT: 12.995 min Scan# 3606
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion:252 Resp: 803086

Ion	Ratio	Lower	Upper
252	100		
125	13.9	11.5	17.3
253	21.6	17.6	26.4

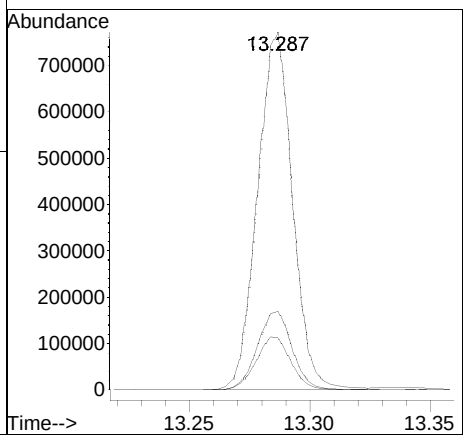


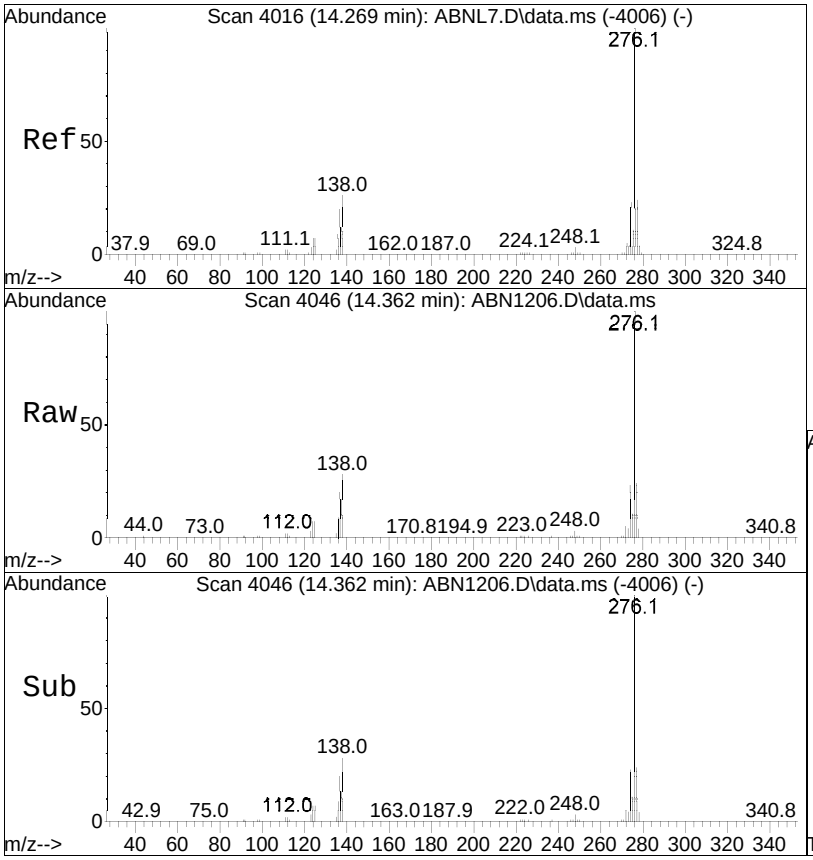


#111
Benzo(a)pyrene
Concen: 51.41 ug/ml
RT: 13.287 min Scan# 3700
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion:252 Resp: 771337

Ion	Ratio	Lower	Upper
252	100		
125	14.9	12.6	18.8
253	22.0	17.5	26.3

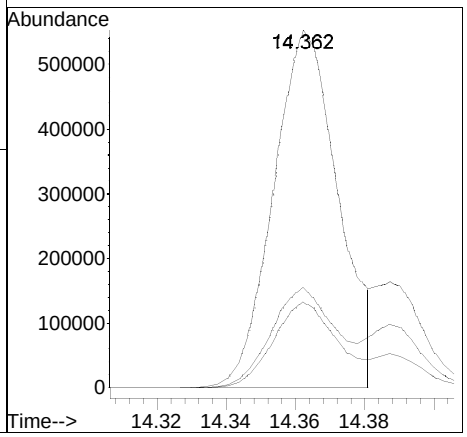


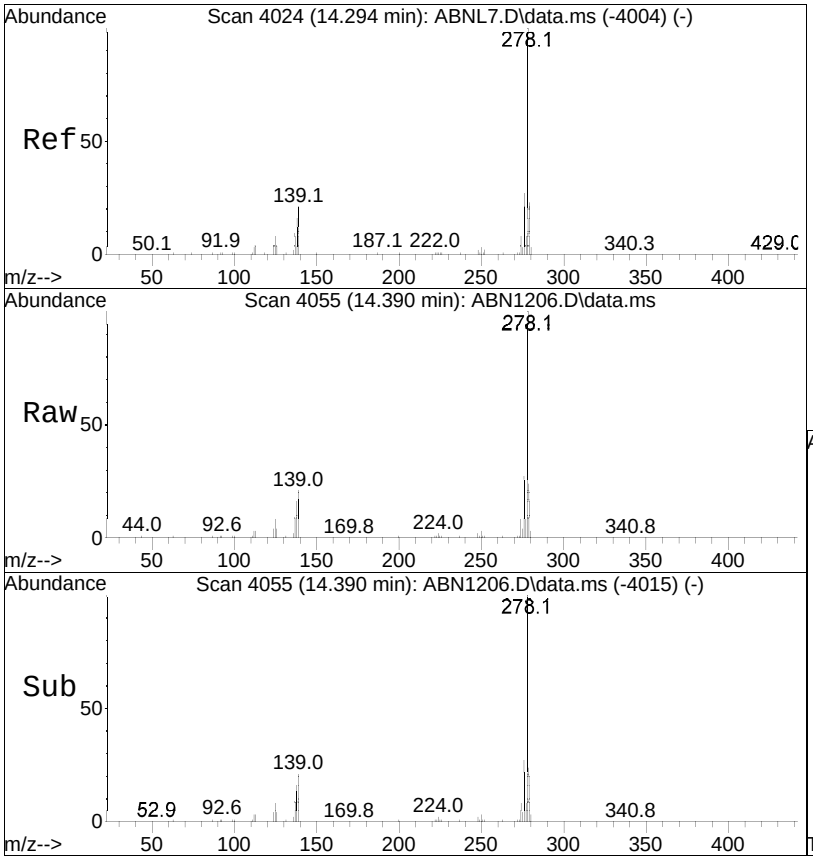


#113
Indeno(1,2,3-cd)pyrene
Concen: 50.61 ug/mL M6
RT: 14.362 min Scan# 4046
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion:276 Resp: 721416

Ion	Ratio	Lower	Upper
276	100		
138	28.2	22.1	33.1
277	24.2	19.0	28.6

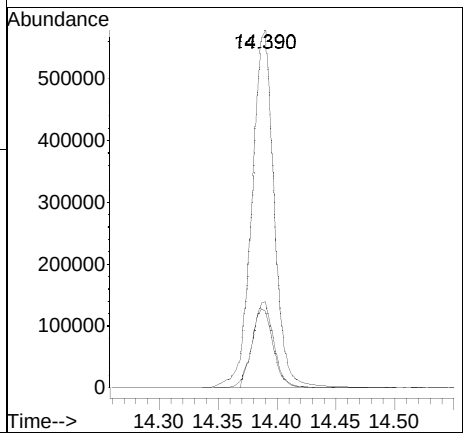


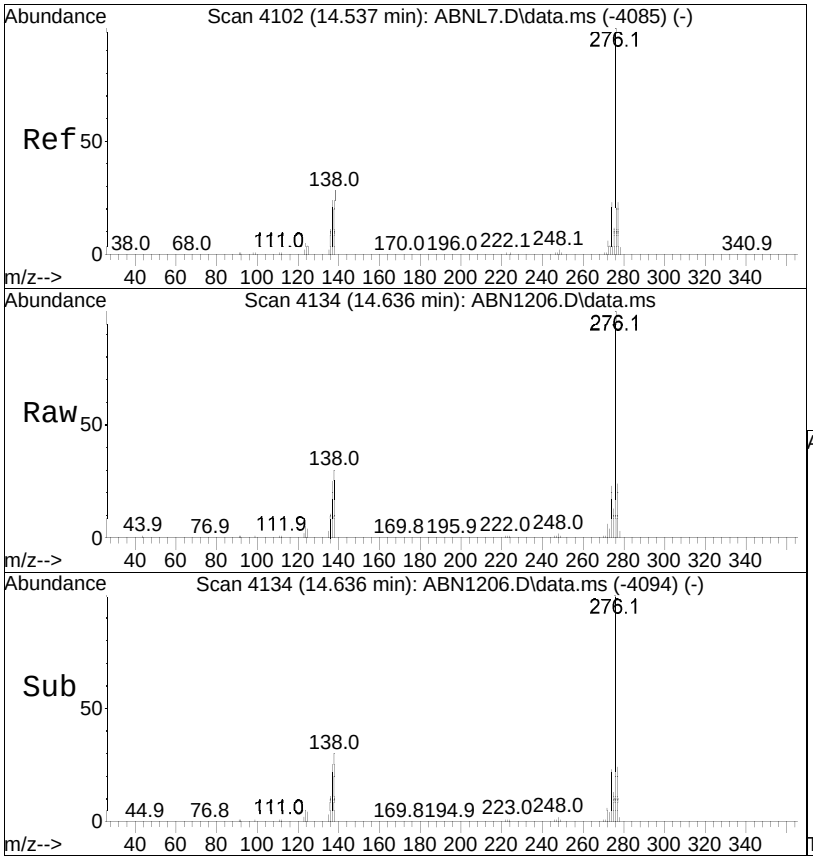


#114
Dibenzo(a,h)anthracene
Concen: 52.38 ug/ml
RT: 14.390 min Scan# 4055
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion:278 Resp: 754968

Ion	Ratio	Lower	Upper
278	100		
139	21.4	17.8	26.8
279	23.5	19.2	28.8

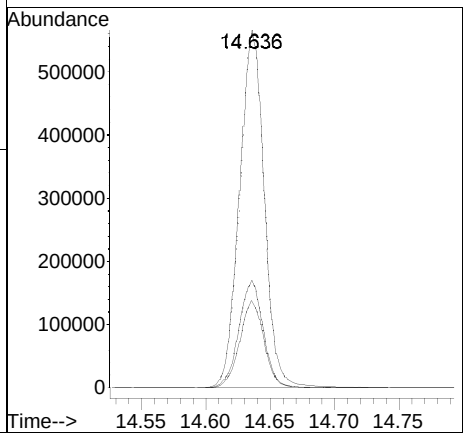




#115
Benzo(ghi)perylene
Concen: 51.97 ug/ml
RT: 14.636 min Scan# 4134
Delta R.T. 0.000 min
Lab File: ABN1206.D
Acq: 06 Dec 2018 03:16 pm

Tgt Ion:276 Resp: 749292

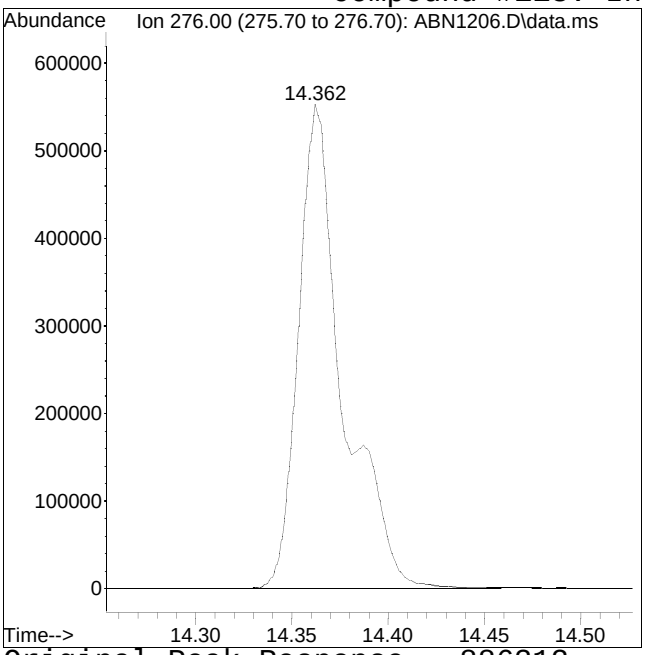
Ion	Ratio	Lower	Upper
276	100		
138	30.0	29.0	43.6
277	24.1	18.6	27.8



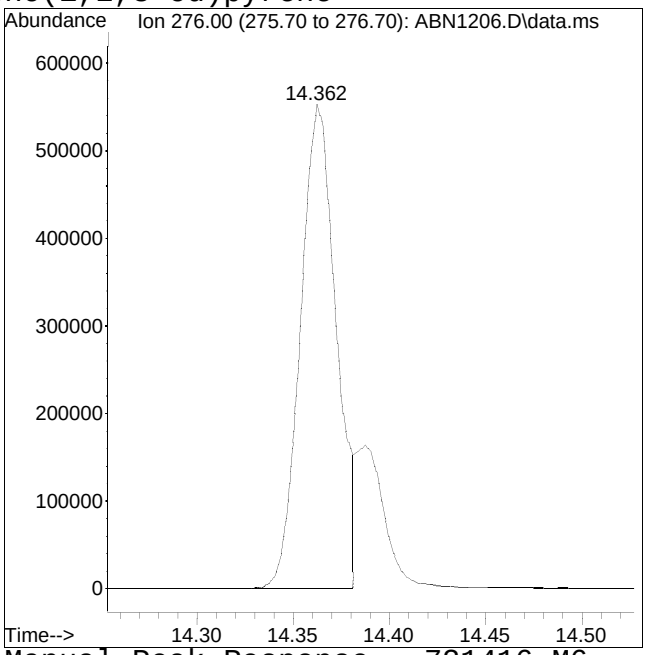
Manual Integration Report

Data Path	: I:\8270\SV112\181206\	QMethod	: FS181205SV112.m
Data File	: ABN1206.D	Operator	: sv112:jg
Date Inj'd	: 12/6/2018 3:16 pm	Instrument	: SV112
Sample	: wg1186484-3,32,,ABN CCV	Quant Date	: 12/6/2018 3:51 pm

Compound #113: Indeno(1,2,3-cd)pyrene



Original Peak Response = 886312



Manual Peak Response = 721416 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV112\181206\
Data File : AP91206.D
Acq On : 06 Dec 2018 03:42 pm
Operator : sv112:jg
Sample : wg1186484-4,32,,AP9 CCV
Misc : wg1186484,,ical15308
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Dec 06 16:25:44 2018
Quant Method : I:\8270\SV112\181206\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 16:25:11 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
27	I	IS2_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	97	0.00
28	T	Benzaldehyde	1.182	1.185	-0.3	97	0.00
29	T	Acetophenone	1.980	2.001	-1.1	97	0.00
30	T	m-Toluidine	1.888	1.966	-4.1	96	0.00
31	T	2-Chloroaniline	1.754	1.806	-3.0	98	0.00
54	I	IS2_Naphthalene-d8	1.000	1.000	0.0	99	0.00
55	T	a-Terpineol	0.250	0.248	0.8	93	0.00
56	T	3-Chloroaniline	0.132	0.131	0.8	97	0.00
57	T	2,6-Dichlorophenol	0.249	0.261	-4.8	97	0.00
58	T	1-chloro-2-nitrobenzene	0.128	0.131	-2.3	97	0.00
59	T	Caprolactam	0.130	0.138	-6.2	95	0.00
60	T	1,2,4,5-Tetrachlorobenzene	0.271	0.272	-0.4	102	0.00
61	T	Biphenyl	0.771	0.771	0.0	99	0.00
82	I	IS2_Acenaphthene-d10	1.000	1.000	0.0	99	0.00
83	T	Dichloran	* 50.000	45.519	9.0	96	0.00
84	T	Pentachloronitrobenzene	0.134	0.144	-7.5	99	0.00
97	I	IS2_Phenanthrene-d10	1.000	1.000	0.0	100	0.00
98	T	Diphenamid	0.458	0.503	-9.8	96	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181206\
Data File : AP91206.D
Acq On : 06 Dec 2018 03:42 pm
Operator : sv112:jg
Sample : wg1186484-4,32,,AP9 CCV
Misc : wg1186484,,ical15308
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Dec 06 16:25:44 2018
Quant Method : I:\8270\SV112\181206\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 16:25:11 2018
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.783	152	165516	40.000	ug/ml	0.00
54) IS2_Naphthalene-d8	6.026	136	688464	40.000	ug/ml	0.00
82) IS2_Acenaphthene-d10	7.742	164	340011	40.000	ug/ml	0.00
97) IS2_Phenanthrene-d10	9.184	188	605765	40.000	ug/ml	0.00
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.345	105	245085	50.105	ug/ml	99
29) Acetophenone	5.184	105	414087	50.547	ug/ml	94
30) m-Toluidine	5.265	106	406836	52.083	ug/ml	99
31) 2-Chloroaniline	5.628	127	373657	51.495	ug/ml	98
55) a-Terpineol	6.082	59	213280	49.492	ug/ml	90
56) 3-Chloroaniline	6.095	65	112907	49.521	ug/ml	86
57) 2,6-Dichlorophenol	6.123	162	224704	52.466	ug/ml	94
58) 1-chloro-2-nitrobenzene	6.378	111	112803	51.200	ug/ml	97
59) Caprolactam	6.421	55	118697	52.895	ug/ml	89
60) 1,2,4,5-Tetrachloroben...	6.900	216	233826	50.073	ug/ml	99
61) Biphenyl	7.192	154	663263	50.006	ug/ml	99
83) Dichloran	8.876	206	59704	45.519	ug/ml	89
84) Pentachloronitrobenzene	9.029	237	61397	53.790	ug/ml	95
98) Diphenamid	10.095	167	380890	54.954	ug/ml	97

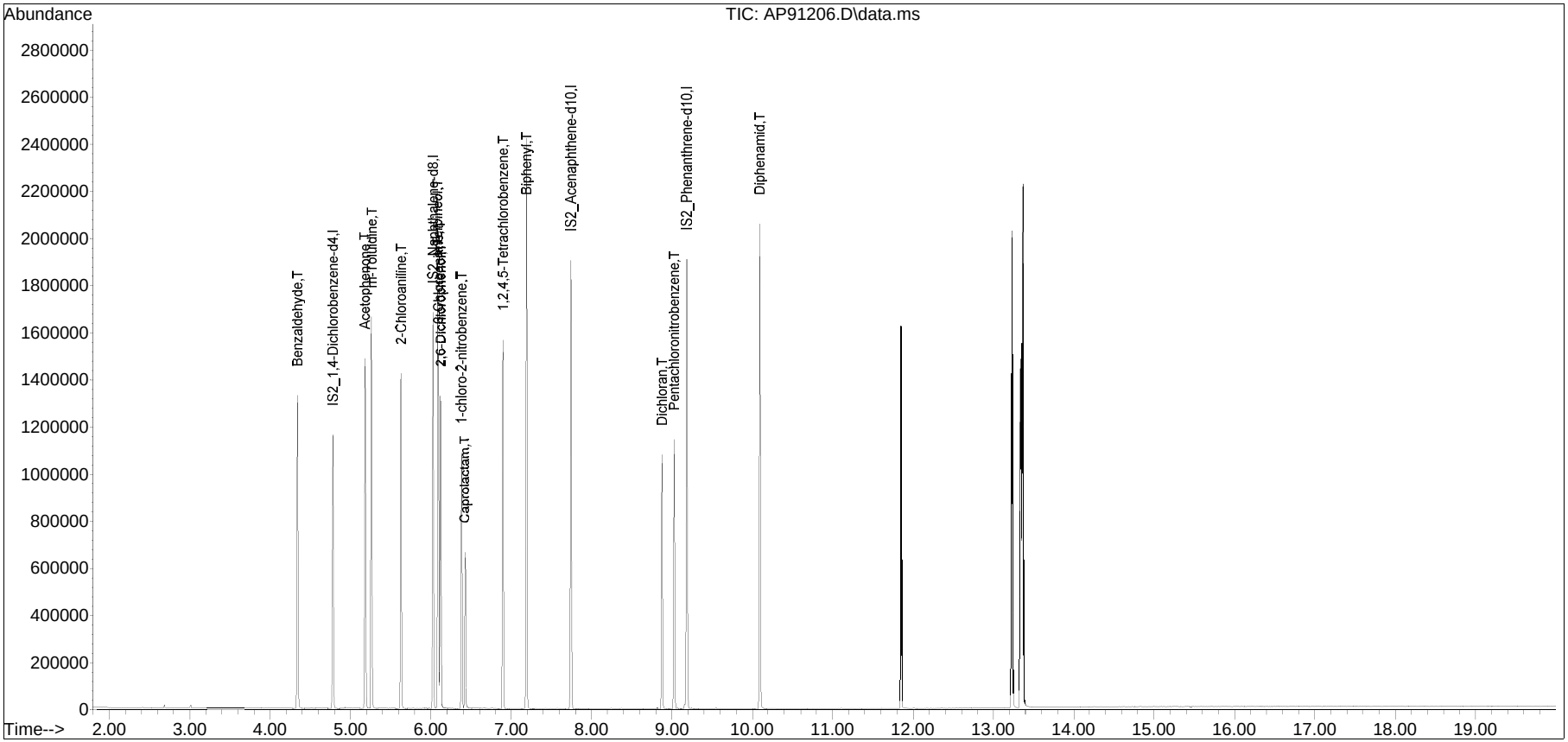
(#) = qualifier out of range (m) = manual integration (+) = signals summed

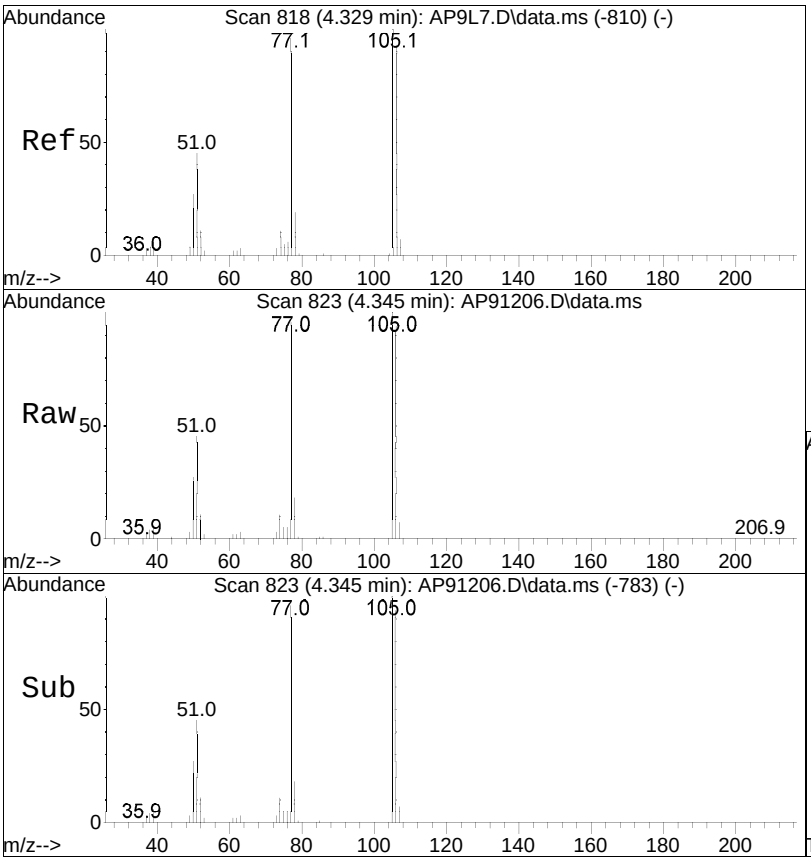
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181206\
Data File : AP91206.D
Acq On : 06 Dec 2018 03:42 pm
Operator : sv112:jg
Sample : wg1186484-4,32,,AP9 CCV
Misc : wg1186484,,ical15308
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Dec 06 16:25:44 2018
Quant Method : I:\8270\SV112\181206\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 16:25:11 2018
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

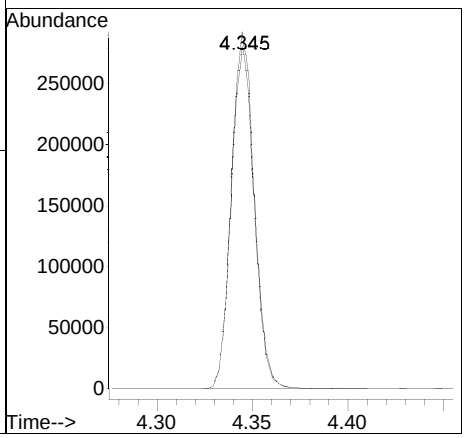


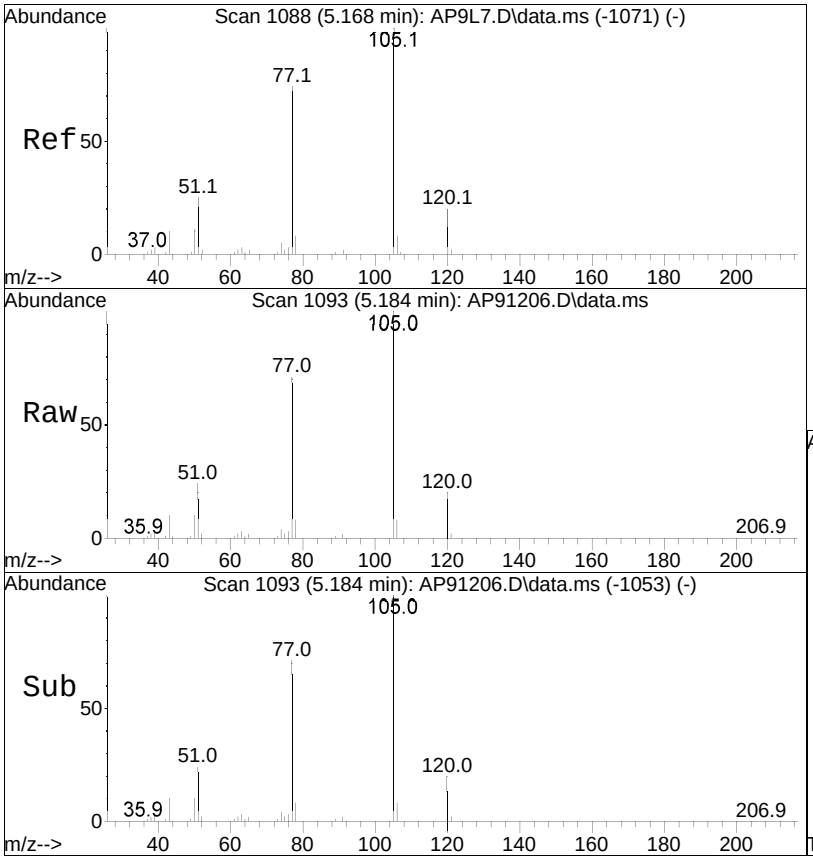


#28
Benzaldehyde
Concen: 50.10 ug/ml
RT: 4.345 min Scan# 823
Delta R.T. 0.000 min
Lab File: AP91206.D
Acq: 06 Dec 2018 03:42 pm

Tgt Ion:105 Resp: 245085

Ion	Ratio	Lower	Upper
105	100		
77	95.2	77.0	115.6

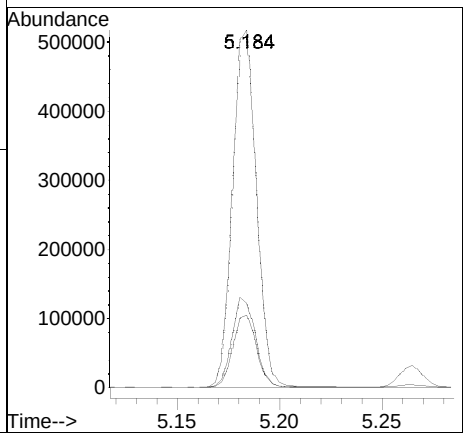


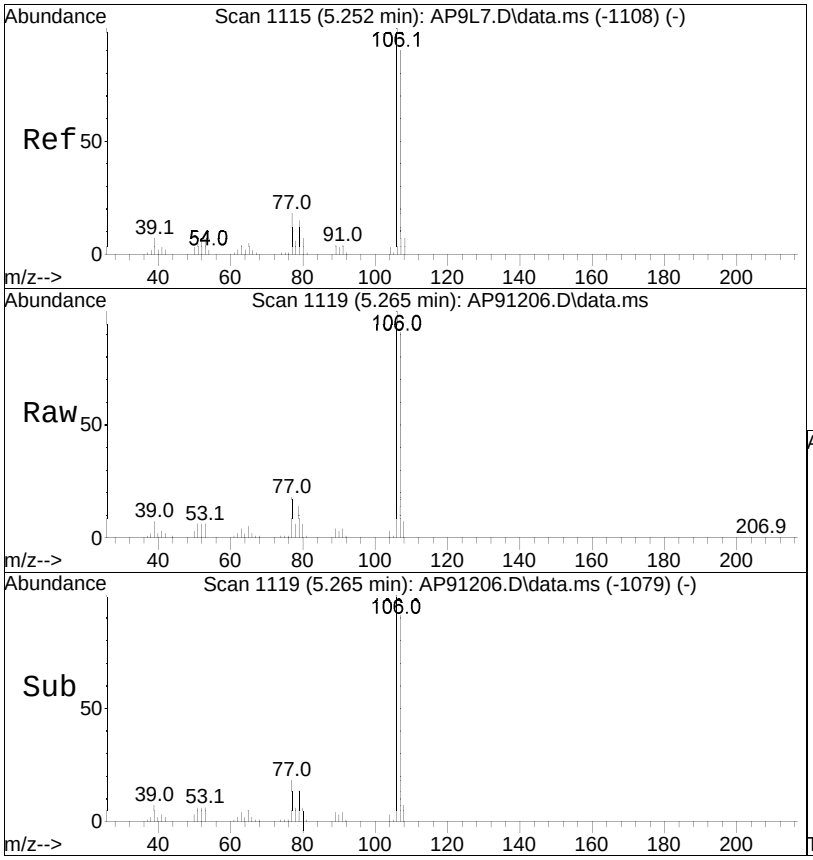


#29
Acetophenone
Concen: 50.55 ug/ml
RT: 5.184 min Scan# 1093
Delta R.T. 0.000 min
Lab File: AP91206.D
Acq: 06 Dec 2018 03:42 pm

Tgt Ion:105 Resp: 414087

Ion	Ratio	Lower	Upper
105	100		
120	20.4	15.2	22.8
51	25.0	23.1	34.7

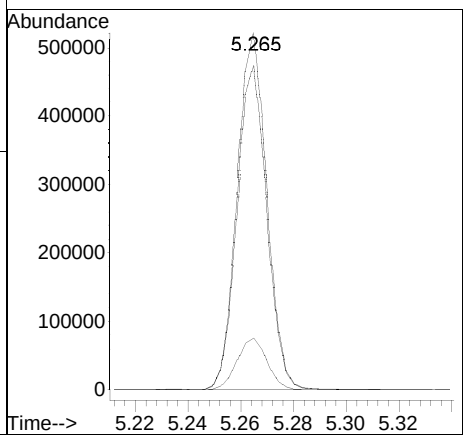


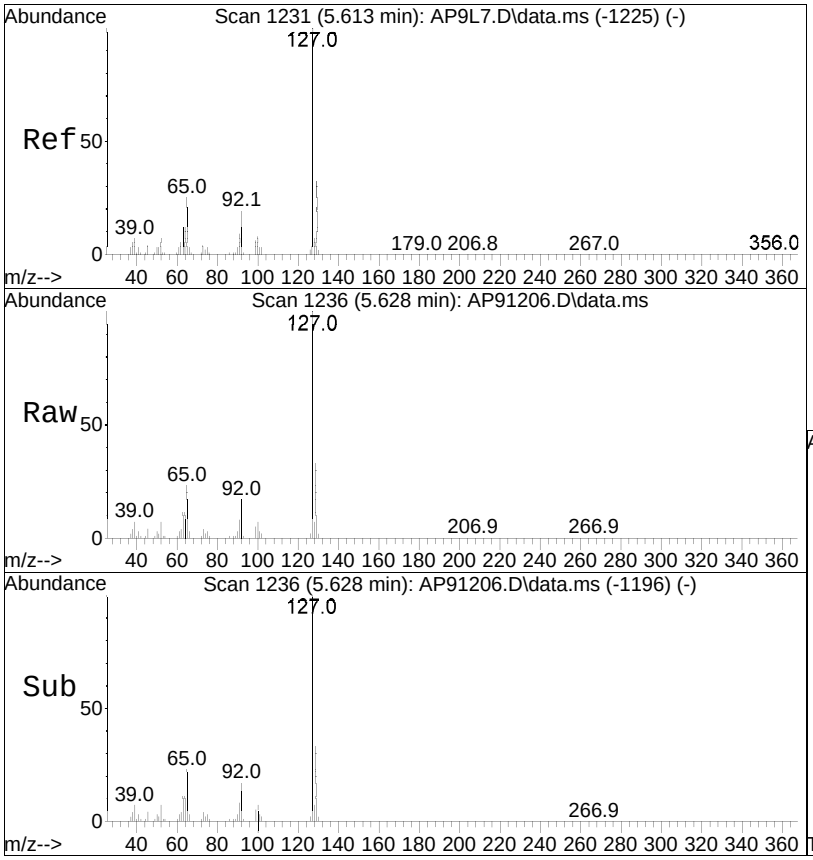


#30
m-Toluidine
Concen: 52.08 ug/ml
RT: 5.265 min Scan# 1119
Delta R.T. 0.000 min
Lab File: AP91206.D
Acq: 06 Dec 2018 03:42 pm

Tgt Ion:106 Resp: 406836

Ion	Ratio	Lower	Upper
106	100		
107	91.2	72.3	108.5
79	14.8	12.2	18.2

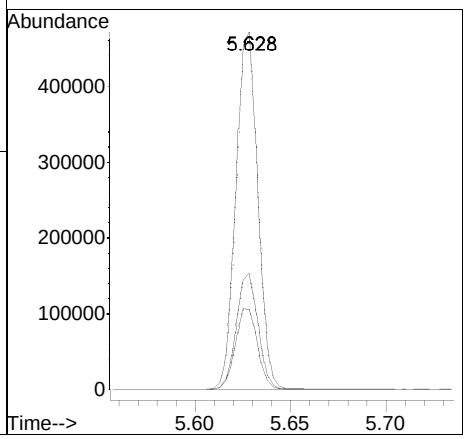


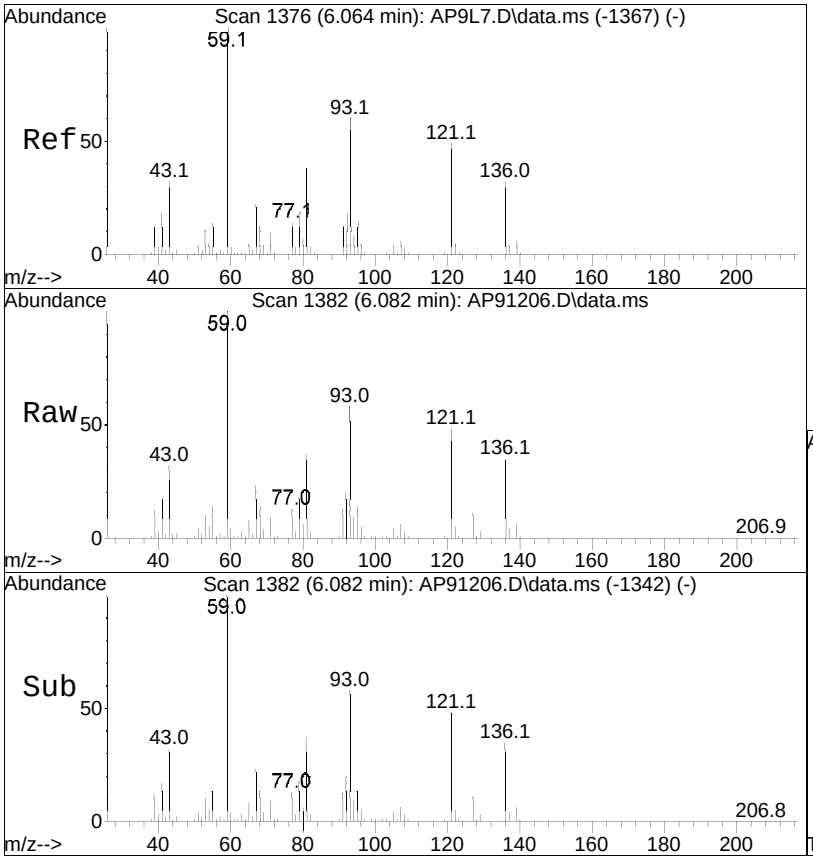


#31
2-Chloroaniline
Concen: 51.50 ug/ml
RT: 5.628 min Scan# 1236
Delta R.T. 0.000 min
Lab File: AP91206.D
Acq: 06 Dec 2018 03:42 pm

Tgt Ion:127 Resp: 373657

Ion	Ratio	Lower	Upper
127	100		
129	32.3	25.7	38.5
65	23.1	20.5	30.7

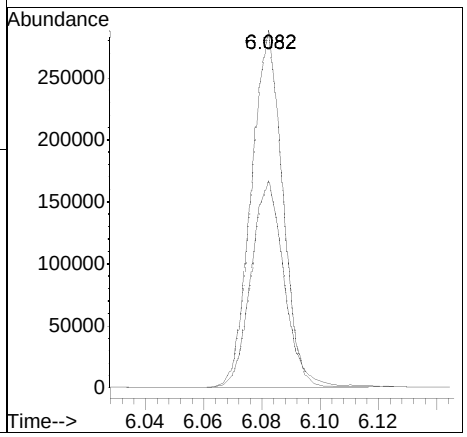


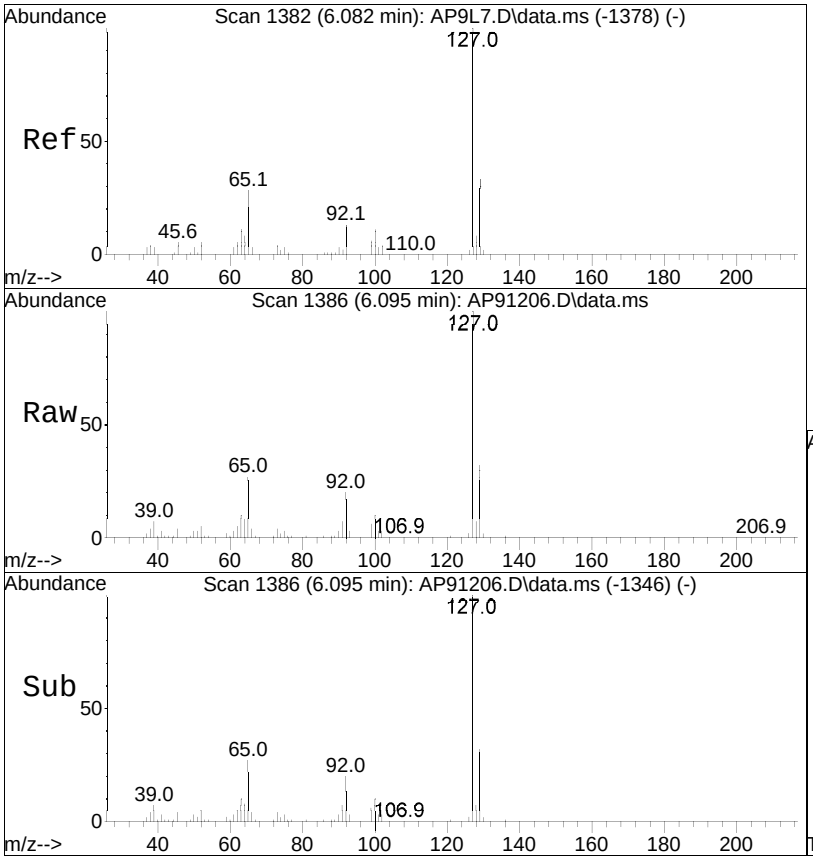


#55
a-Terpineol
Concen: 49.49 ug/ml
RT: 6.082 min Scan# 1382
Delta R.T. 0.000 min
Lab File: AP91206.D
Acq: 06 Dec 2018 03:42 pm

Tgt Ion: 59 Resp: 213280

Ion	Ratio	Lower	Upper
59	100		
93	61.9	43.5	65.3

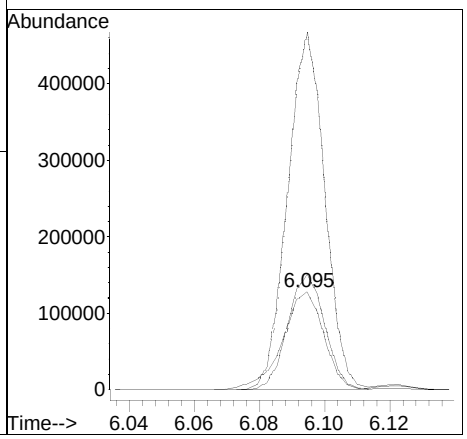


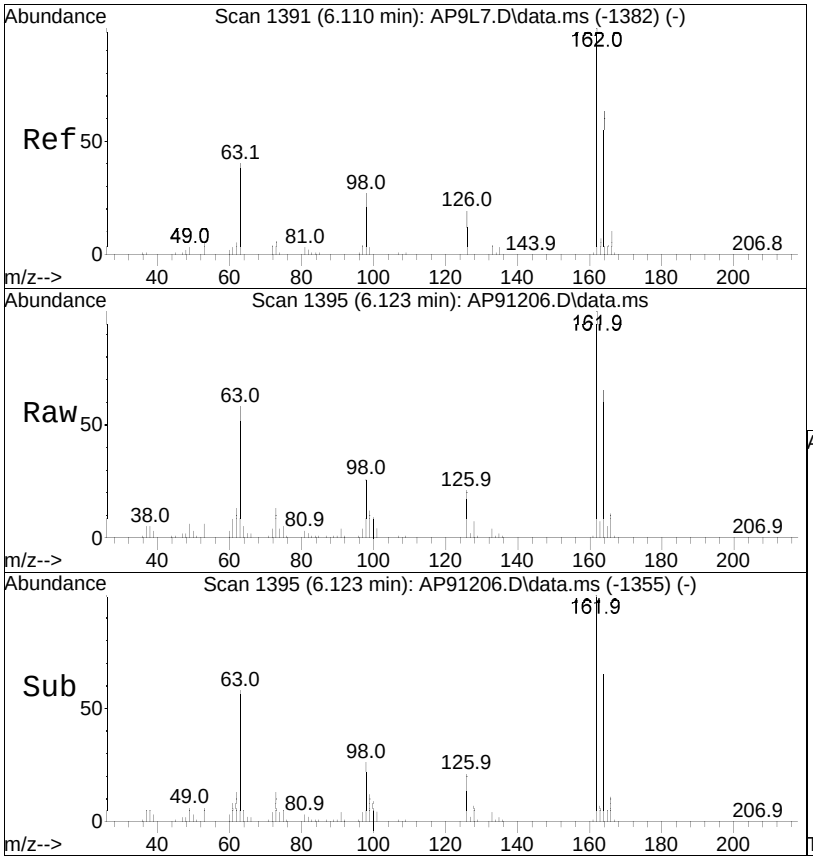


#56
3-Chloroaniline
Concen: 49.52 ug/ml
RT: 6.095 min Scan# 1386
Delta R.T. 0.000 min
Lab File: AP91206.D
Acq: 06 Dec 2018 03:42 pm

Tgt Ion: 65 Resp: 112907

Ion	Ratio	Lower	Upper
65	100		
127	324.8	236.6	355.0
129	105.8	76.6	115.0

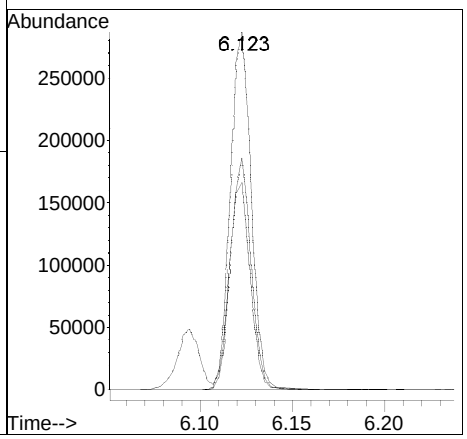


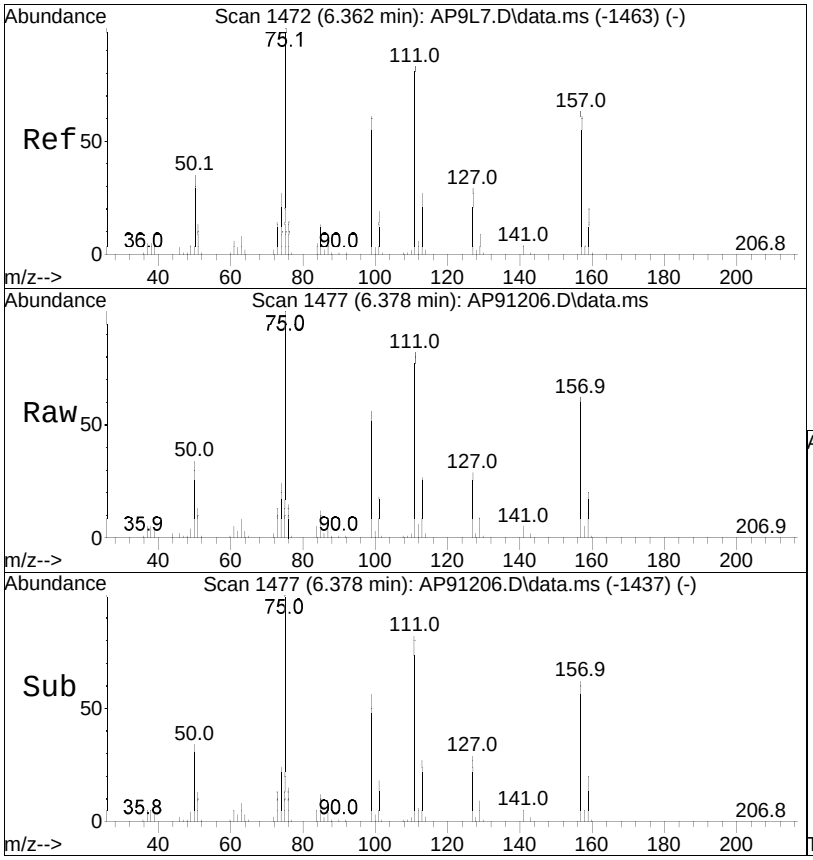


#57
2,6-Dichlorophenol
Concen: 52.47 ug/ml
RT: 6.123 min Scan# 1395
Delta R.T. 0.000 min
Lab File: AP91206.D
Acq: 06 Dec 2018 03:42 pm

Tgt Ion:162 Resp: 224704

Ion	Ratio	Lower	Upper
162	100		
164	63.5	50.8	76.2
63	58.3	53.6	80.4

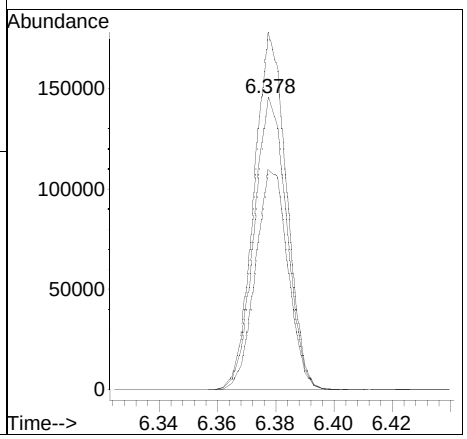


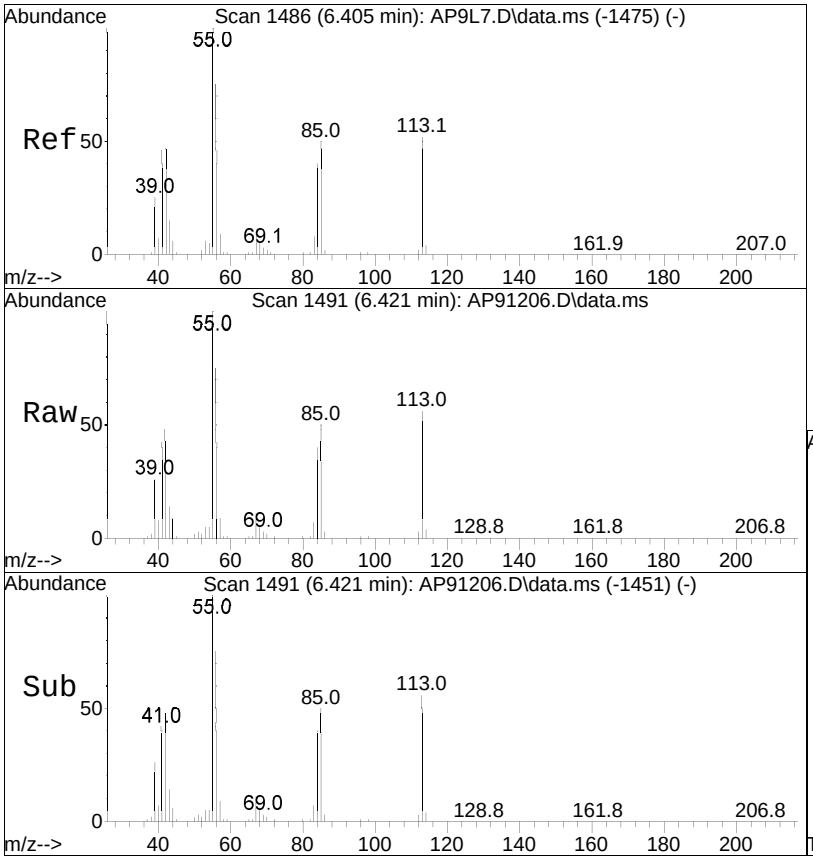


#58
1-chloro-2-nitrobenzene
Concen: 51.20 ug/ml
RT: 6.378 min Scan# 1477
Delta R.T. 0.000 min
Lab File: AP91206.D
Acq: 06 Dec 2018 03:42 pm

Tgt Ion:111 Resp: 112803

Ion	Ratio	Lower	Upper
111	100		
157	75.5	56.2	84.2
75	121.8	97.8	146.6

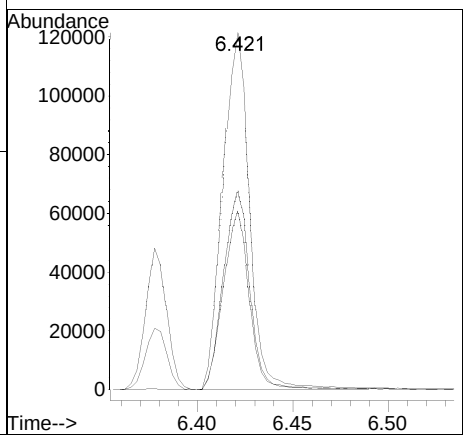


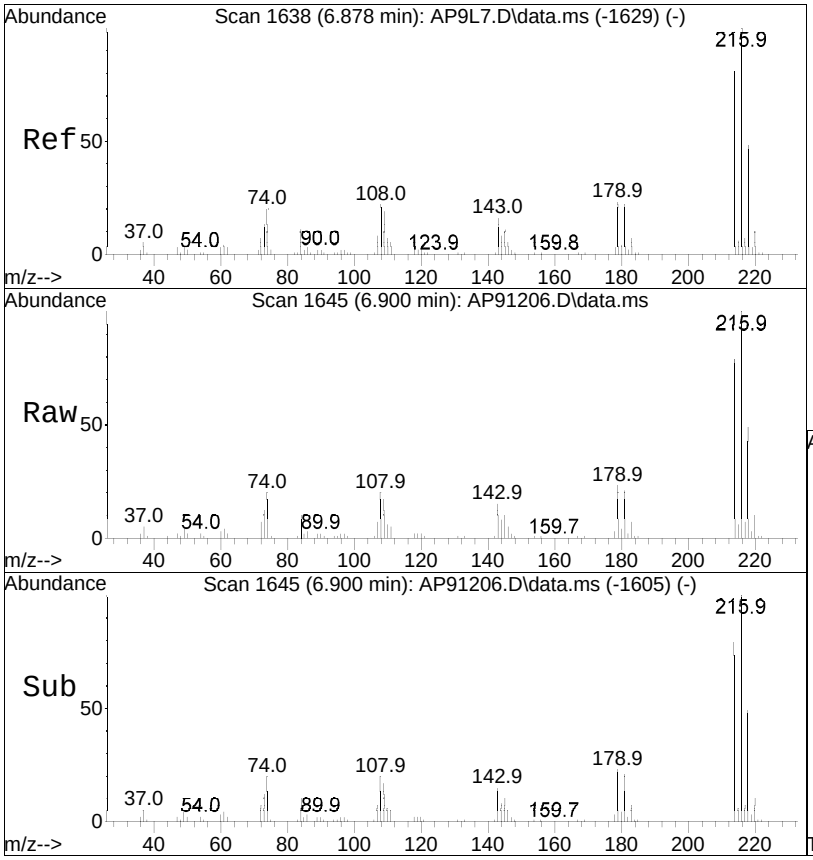


#59
Caprolactam
Concen: 52.89 ug/ml
RT: 6.421 min Scan# 1491
Delta R.T. 0.000 min
Lab File: AP91206.D
Acq: 06 Dec 2018 03:42 pm

Tgt Ion: 55 Resp: 118697

Ion	Ratio	Lower	Upper
55	100		
85	49.3	35.2	52.8
113	54.8	36.6	55.0

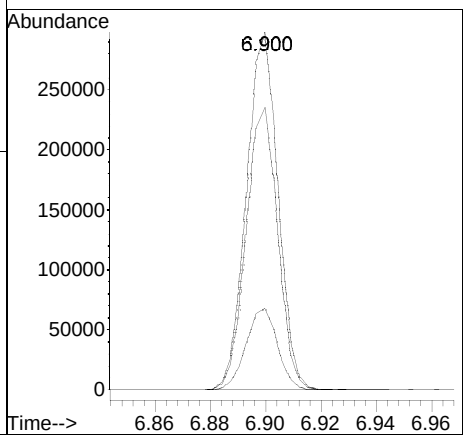


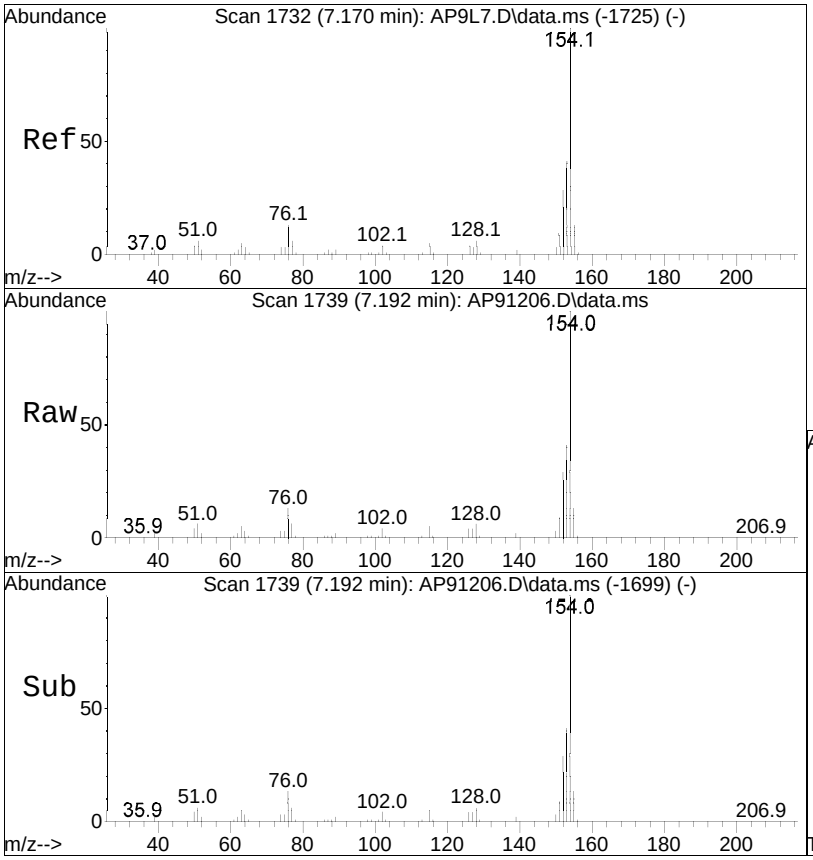


#60
1,2,4,5-Tetrachlorobenzene
Concen: 50.07 ug/ml
RT: 6.900 min Scan# 1645
Delta R.T. 0.000 min
Lab File: AP91206.D
Acq: 06 Dec 2018 03:42 pm

Tgt Ion:216 Resp: 233826

Ion	Ratio	Lower	Upper
216	100		
214	79.3	64.0	96.0
179	22.9	18.7	28.1

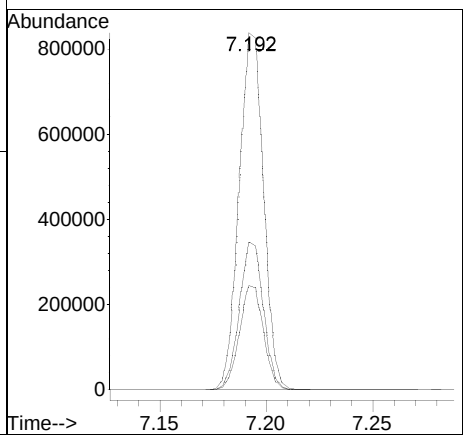


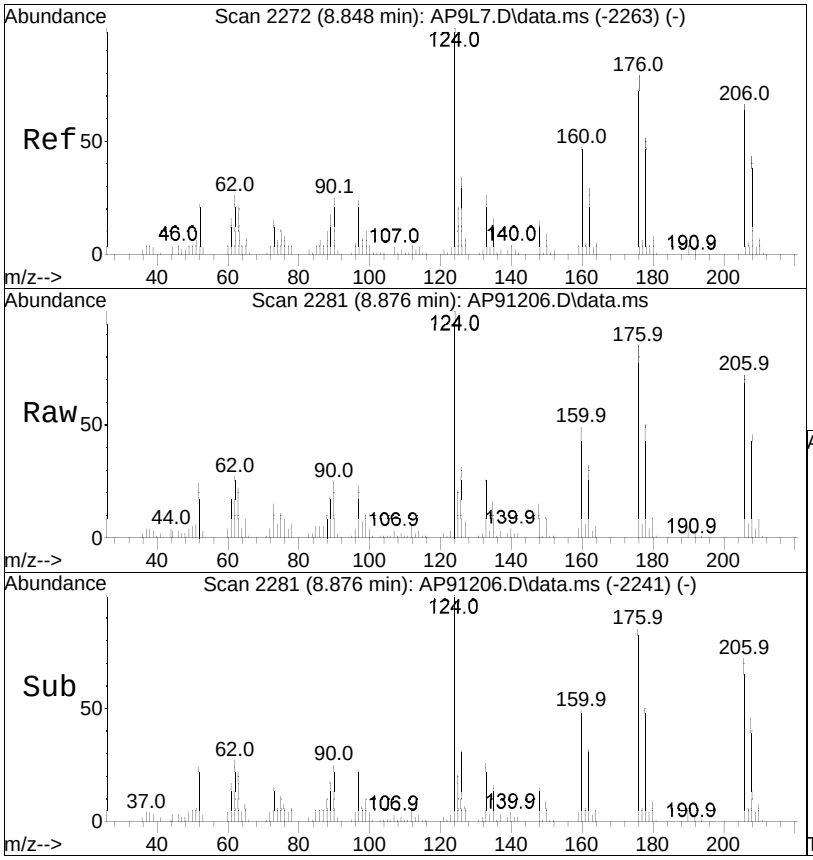


#61
Biphenyl
Concen: 50.01 ug/ml
RT: 7.192 min Scan# 1739
Delta R.T. 0.000 min
Lab File: AP91206.D
Acq: 06 Dec 2018 03:42 pm

Tgt Ion:154 Resp: 663263

Ion	Ratio	Lower	Upper
154	100		
153	40.9	32.5	48.7
152	29.1	22.6	34.0

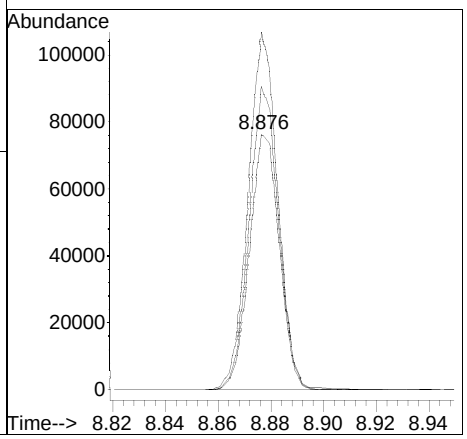


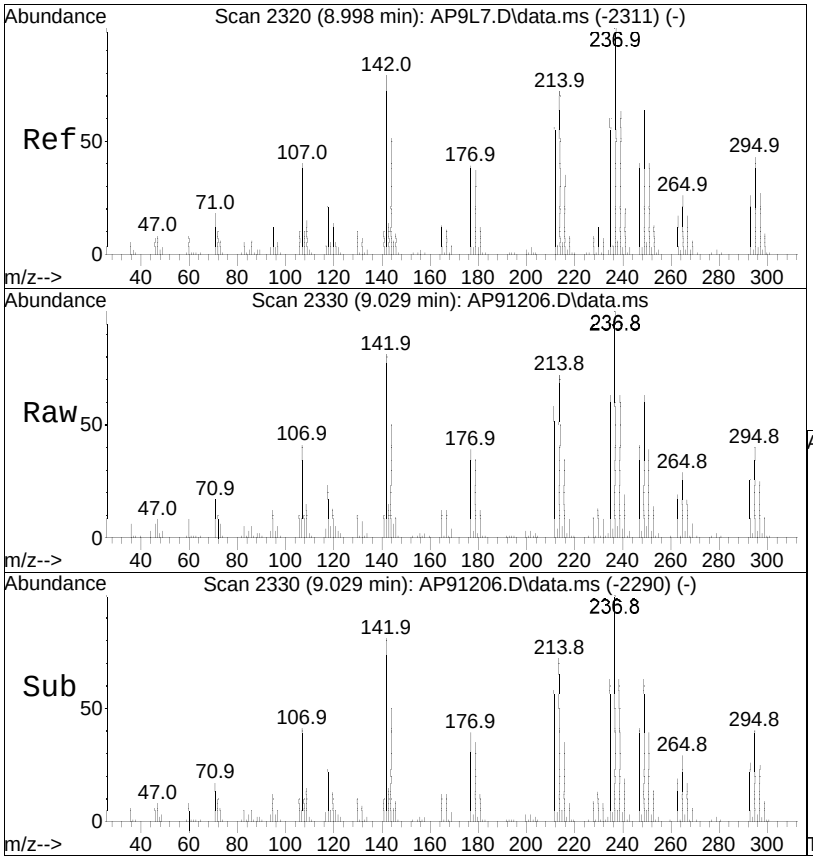


#83
Dichloran
Concen: 45.52 ug/ml
RT: 8.876 min Scan# 2281
Delta R.T. 0.000 min
Lab File: AP91206.D
Acq: 06 Dec 2018 03:42 pm

Tgt Ion:206 Resp: 59704

Ion	Ratio	Lower	Upper
206	100		
176	118.1	98.8	148.2
124	137.4	125.8	188.6

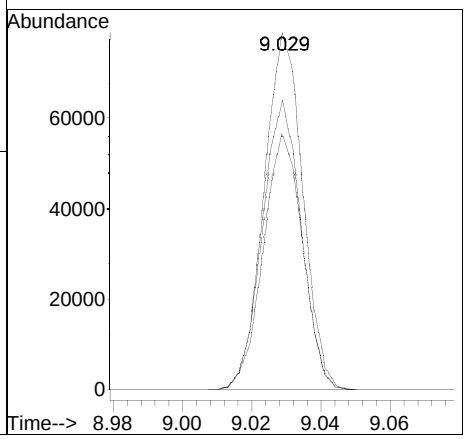


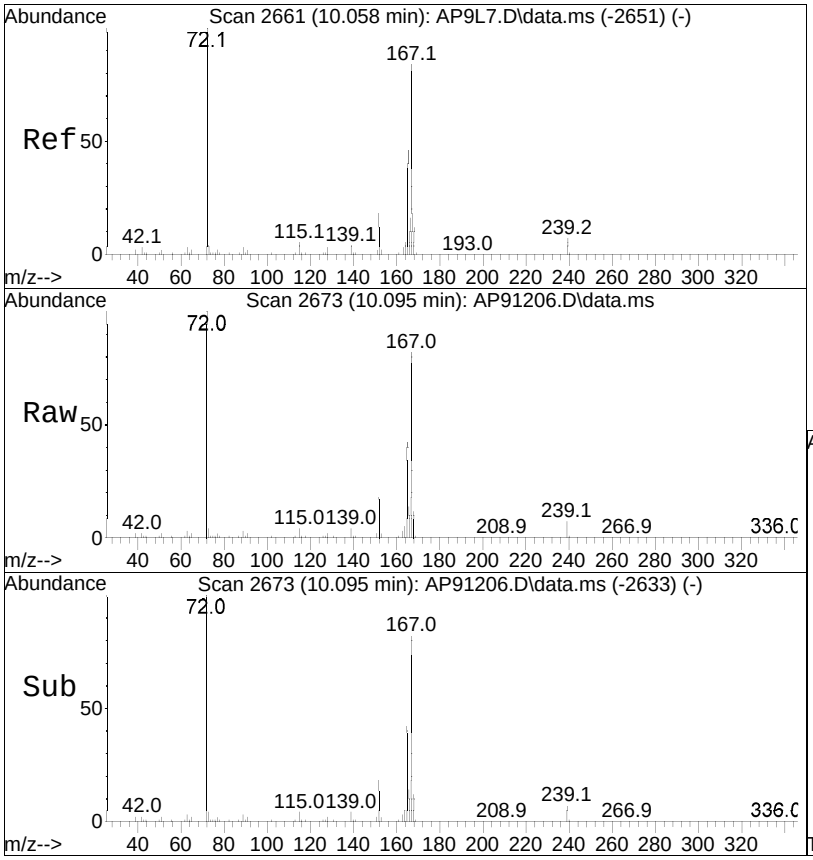


#84
Pentachloronitrobenzene
Concen: 53.79 ug/ml
RT: 9.029 min Scan# 2330
Delta R.T. 0.000 min
Lab File: AP91206.D
Acq: 06 Dec 2018 03:42 pm

Tgt Ion:237 Resp: 61397

Ion	Ratio	Lower	Upper
237	100		
142	81.1	70.3	105.5
214	72.8	59.4	89.2

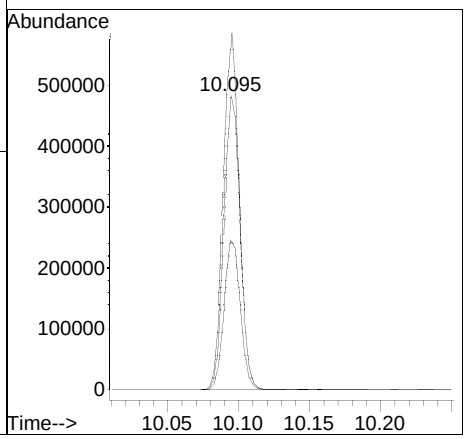




#98
Diphenamid
Concen: 54.95 ug/ml
RT: 10.095 min Scan# 2673
Delta R.T. 0.000 min
Lab File: AP91206.D
Acq: 06 Dec 2018 03:42 pm

Tgt Ion:167 Resp: 380890

Ion	Ratio	Lower	Upper
167	100		
72	119.2	98.9	148.3
165	51.7	40.4	60.6



Manual Integration Report

Data Path	: I:\8270\SV112\181206\	QMethod	: FS181205SV112.m
Data File	: AP91206.D	Operator	: sv112:jg
Date Inj'd	: 12/6/2018 3:42 pm	Instrument	: SV112
Sample	: wg1186484-4,32,,AP9 CCV	Quant Date	: 12/6/2018 4:25 pm

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV112\181206\
Data File : ADP1206.D
Acq On : 06 Dec 2018 04:07 pm
Operator : sv112:jg
Sample : wg1186484-5,32,,ADP CCV
Misc : wg1186484,,ical15308
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Dec 06 18:42:07 2018
Quant Method : I:\8270\SV112\181206\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 18:39:50 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound		AvgRF	CCRF	%Dev	Area%	Dev(min)
32	I	IS3_1,4-Dichlorobenzene-d4		1.000	1.000	0.0	98	0.00
33	T	n-Decane		1.514	1.450	4.2	97	0.00
85	I	IS3_Acenaphthene-d10		1.000	1.000	0.0	101	0.00
86	T	Atrazine	*	50.000	44.965	10.1	99	0.00
99	I	IS3_Phenanthrene-d10		1.000	1.000	0.0	103	0.00
100	T	n-Octadecane		0.445	0.502	-12.8	102	0.00
101	T	Parathion	*	50.000	46.059	7.9	95	0.00
102	T	3,3'-Dimethylbenzidine	*	50.000	47.818	4.4	96	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181206\
Data File : ADP1206.D
Acq On : 06 Dec 2018 04:07 pm
Operator : sv112:jg
Sample : wg1186484-5,32,,ADP CCV
Misc : wg1186484,,ical15308
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Dec 06 18:42:07 2018
Quant Method : I:\8270\SV112\181206\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 18:39:50 2018
Response via : Initial Calibration

Sub List : ADPical - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.783	152	167944	40.000	ug/ml	0.00
85) IS3_Acenaphthene-d10	7.742	164	332171	40.000	ug/ml	0.00
99) IS3_Phenanthrene-d10	9.184	188	608062	40.000	ug/ml	0.00
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	4.668	57	304369	47.890	ug/ml	95
86) Atrazine	8.951	200	135810	44.965	ug/ml	99
100) n-Octadecane	9.156	57	381467	56.342	ug/ml	93
101) Parathion	9.974	109	78890	46.059	ug/ml	98
102) 3,3'-Dimethylbenzidine	11.276	212	509096	47.818	ug/ml	98

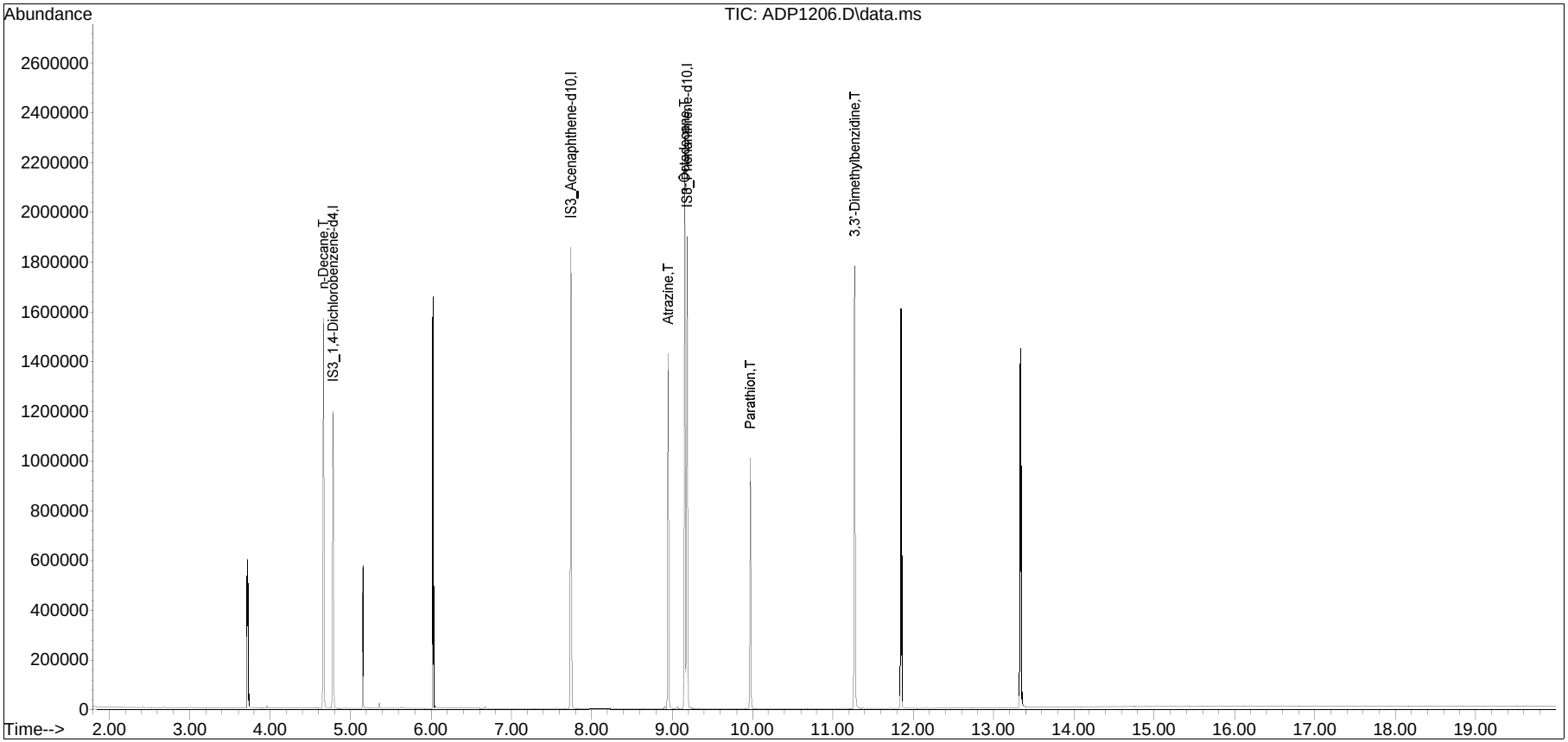
(#) = qualifier out of range (m) = manual integration (+) = signals summed

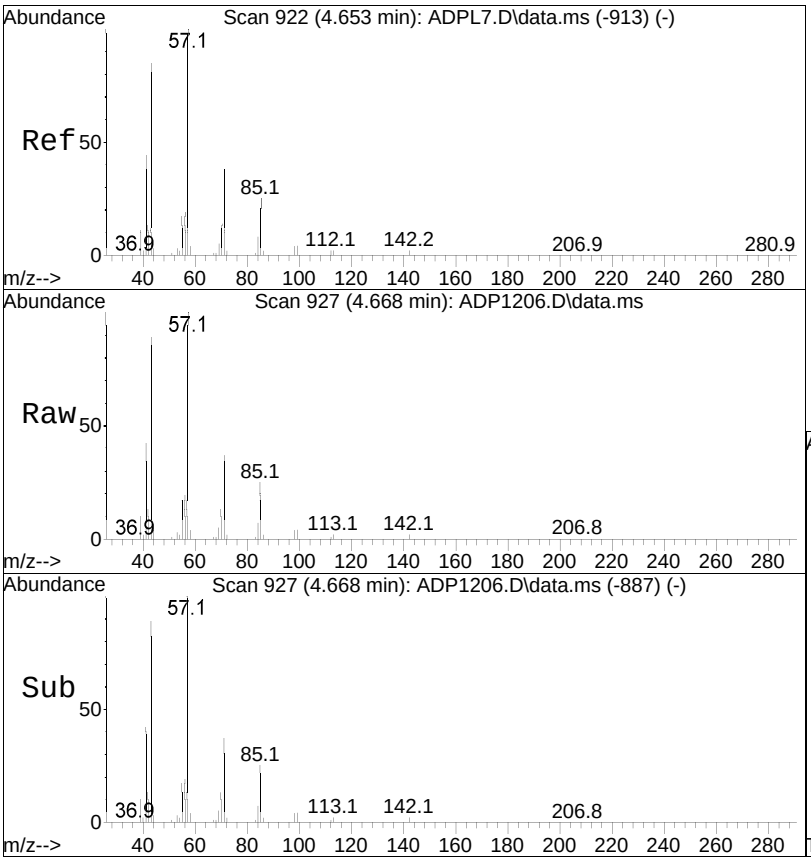
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV112\181206\
Data File : ADP1206.D
Acq On : 06 Dec 2018 04:07 pm
Operator : sv112:jg
Sample : wg1186484-5,32,,ADP CCV
Misc : wg1186484,,ical15308
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Dec 06 18:42:07 2018
Quant Method : I:\8270\SV112\181206\FS181205SV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 18:39:50 2018
Response via : Initial Calibration

Sub List : ADPical - ADP sublist

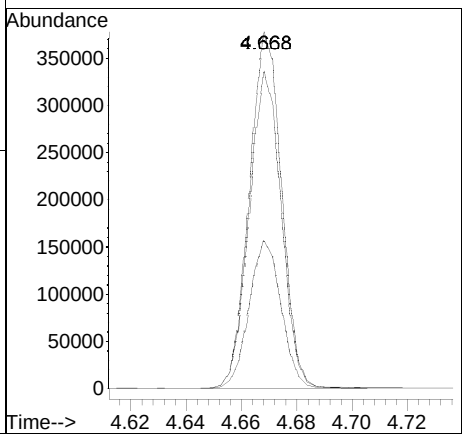


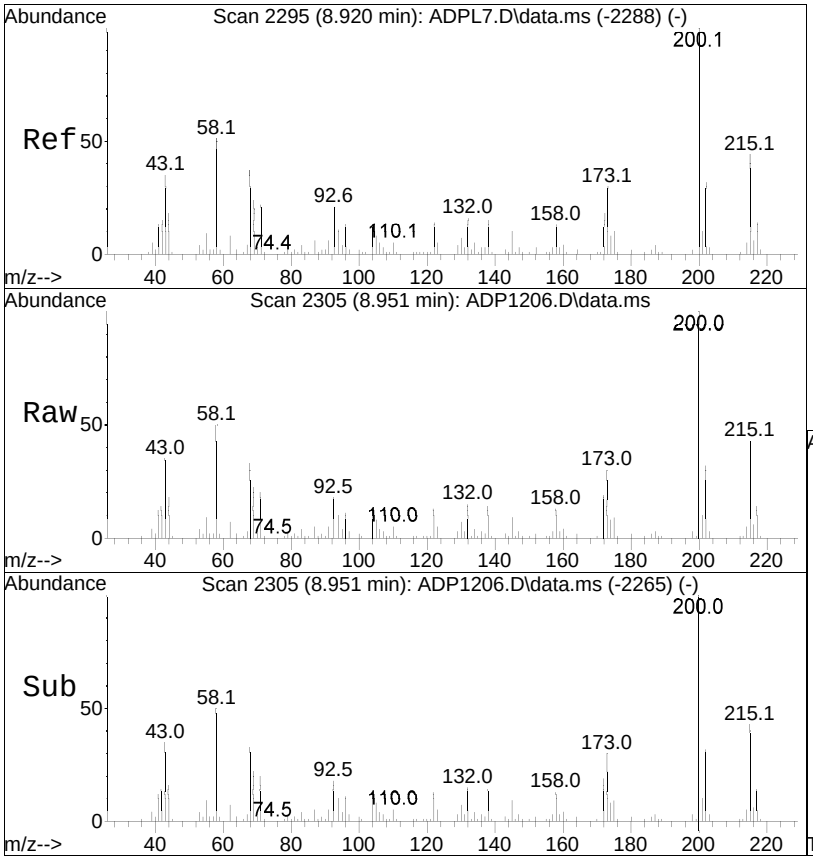


#33
n-Decane
Concen: 47.89 ug/ml
RT: 4.668 min Scan# 927
Delta R.T. 0.000 min
Lab File: ADP1206.D
Acq: 06 Dec 2018 04:07 pm

Tgt Ion: 57 Resp: 304369

Ion	Ratio	Lower	Upper
57	100		
43	88.8	75.4	113.2
41	41.5	35.0	52.6

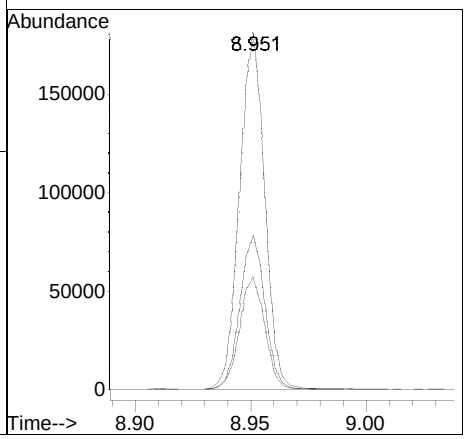


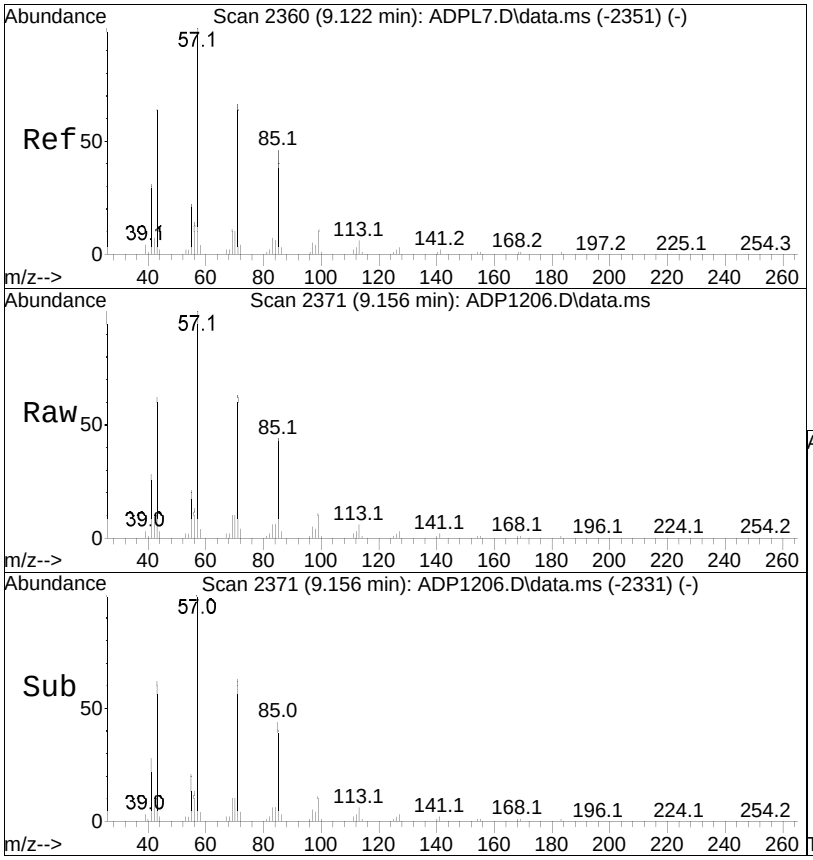


#86
Atrazine
Concen: 44.97 ug/ml
RT: 8.951 min Scan# 2305
Delta R.T. 0.000 min
Lab File: ADP1206.D
Acq: 06 Dec 2018 04:07 pm

Tgt Ion:200 Resp: 135810

Ion	Ratio	Lower	Upper
200	100		
202	32.0	25.0	37.6
215	43.6	34.5	51.7

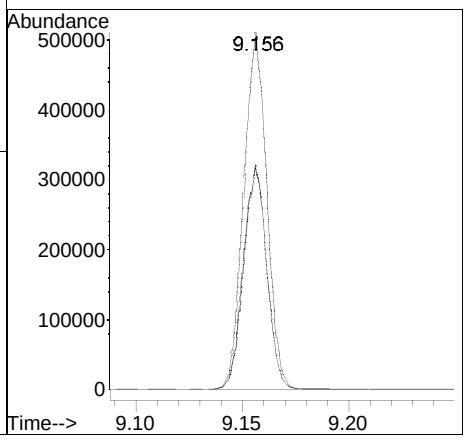


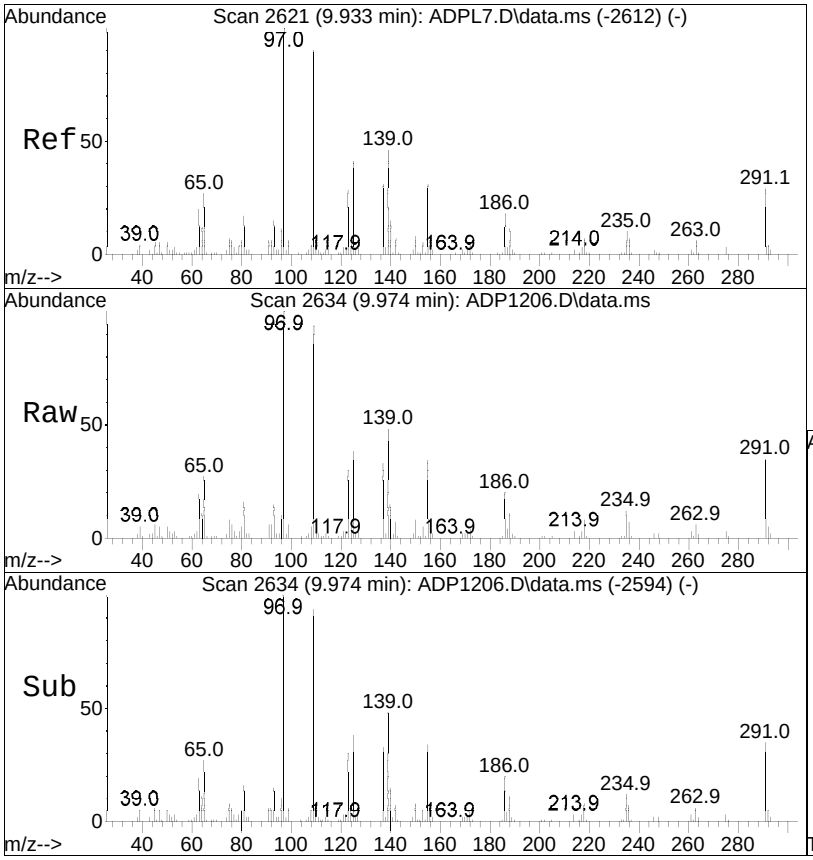


#100
n-Octadecane
Concen: 56.34 ug/ml
RT: 9.156 min Scan# 2371
Delta R.T. 0.000 min
Lab File: ADP1206.D
Acq: 06 Dec 2018 04:07 pm

Tgt Ion: 57 Resp: 381467

Ion	Ratio	Lower	Upper
57	100		
43	63.9	54.3	81.5
71	62.6	45.1	67.7

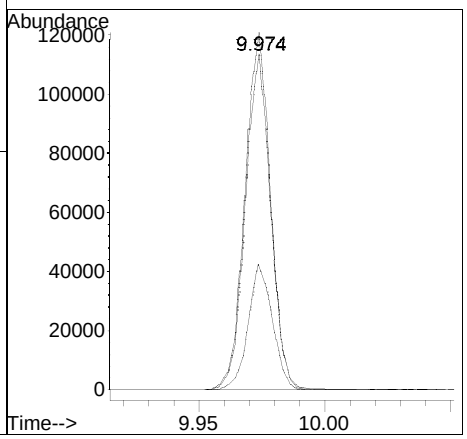


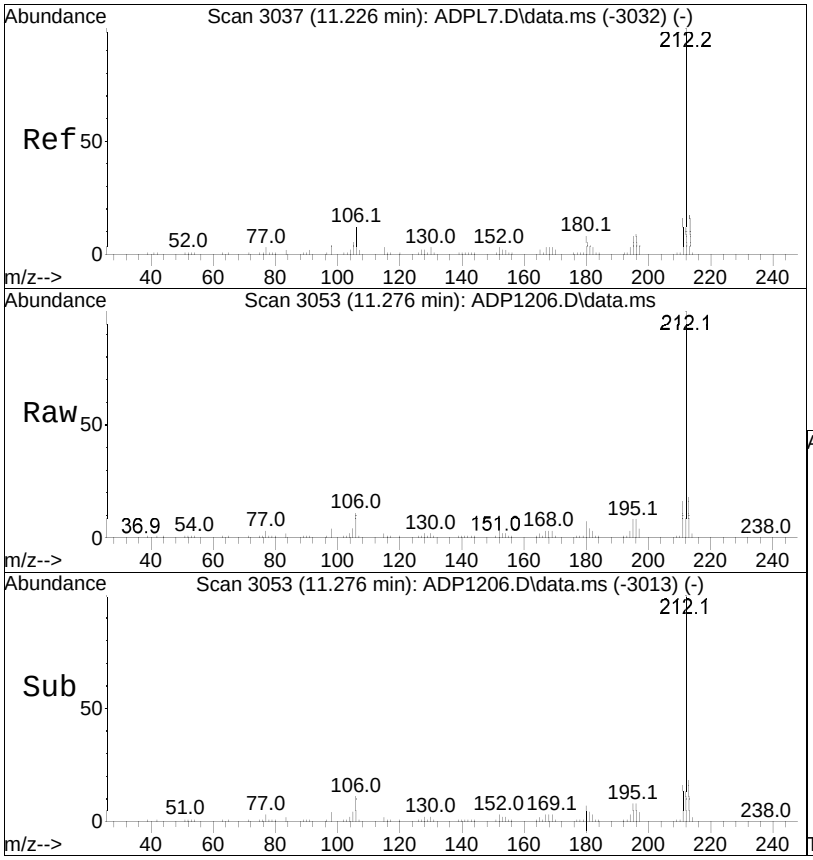


#101
Parathion
Concen: 46.06 ug/ml
RT: 9.974 min Scan# 2634
Delta R.T. -0.000 min
Lab File: ADP1206.D
Acq: 06 Dec 2018 04:07 pm

Tgt Ion:109 Resp: 78890

Ion	Ratio	Lower	Upper
109	100		
97	107.0	85.4	128.2
291	35.9	25.4	38.2

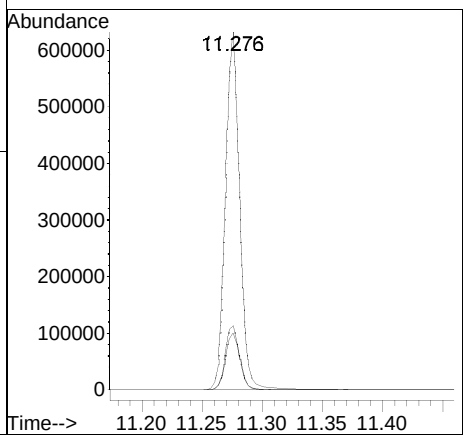




#102
3,3'-Dimethylbenzidine
Concen: 47.82 ug/ml
RT: 11.276 min Scan# 3053
Delta R.T. 0.000 min
Lab File: ADP1206.D
Acq: 06 Dec 2018 04:07 pm

Tgt Ion:212 Resp: 509096

Ion	Ratio	Lower	Upper
212	100		
211	16.3	13.3	19.9
213	18.4	13.4	20.2



Manual Integration Report

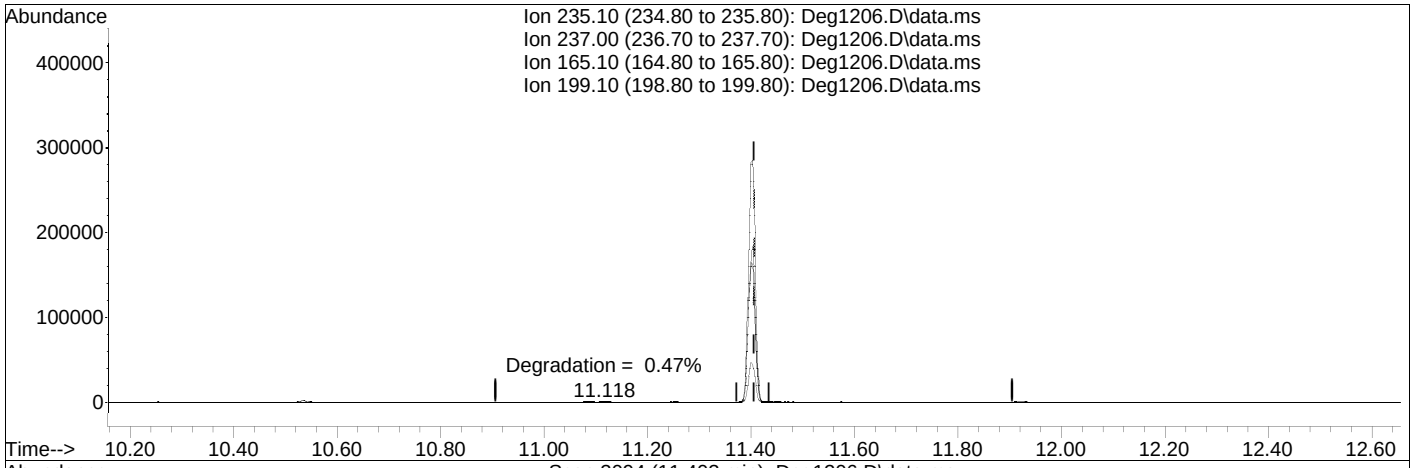
Data Path	: I:\8270\SV112\181206\	QMethod	: FS181205SV112.m
Data File	: ADP1206.D	Operator	: sv112:jg
Date Inj'd	: 12/6/2018 4:07 pm	Instrument	: SV112
Sample	: wg1186484-5,32,,ADP CCV	Quant Date	: 12/6/2018 6:41 pm

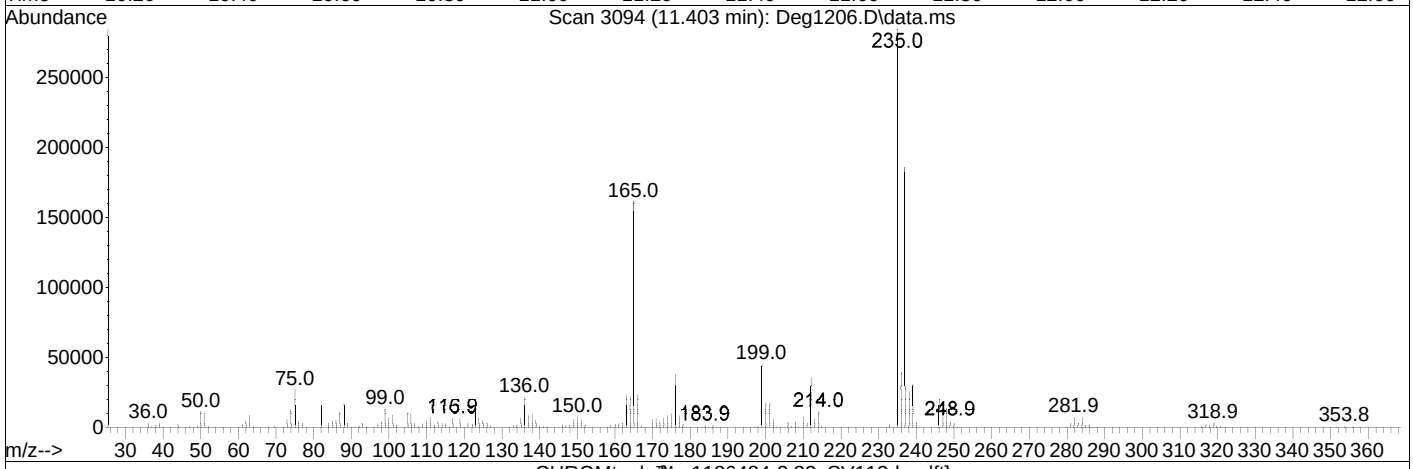
There are no manual integrations or false positives in this file.

Quantitation Report (Qedit)

Data Path : I:\8270\SV112\181206\
Data File : Deg1206.D
Acq On : 06 Dec 2018 02:49 pm
Operator : sv112:jg
Sample : wg1186484-2,32,,SV112degdft
Misc : wg1186484,,ical15308
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Dec 06 18:36:09 2018
Quant Method : I:\8270\SV112\181206\dftppSV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 19:42:43 2018
Response via : Initial Calibration





CHROMtools [wg1186484-2,32,,SV112degdft]

(6) ddt (T)

11.403min (-0.003) 41.10

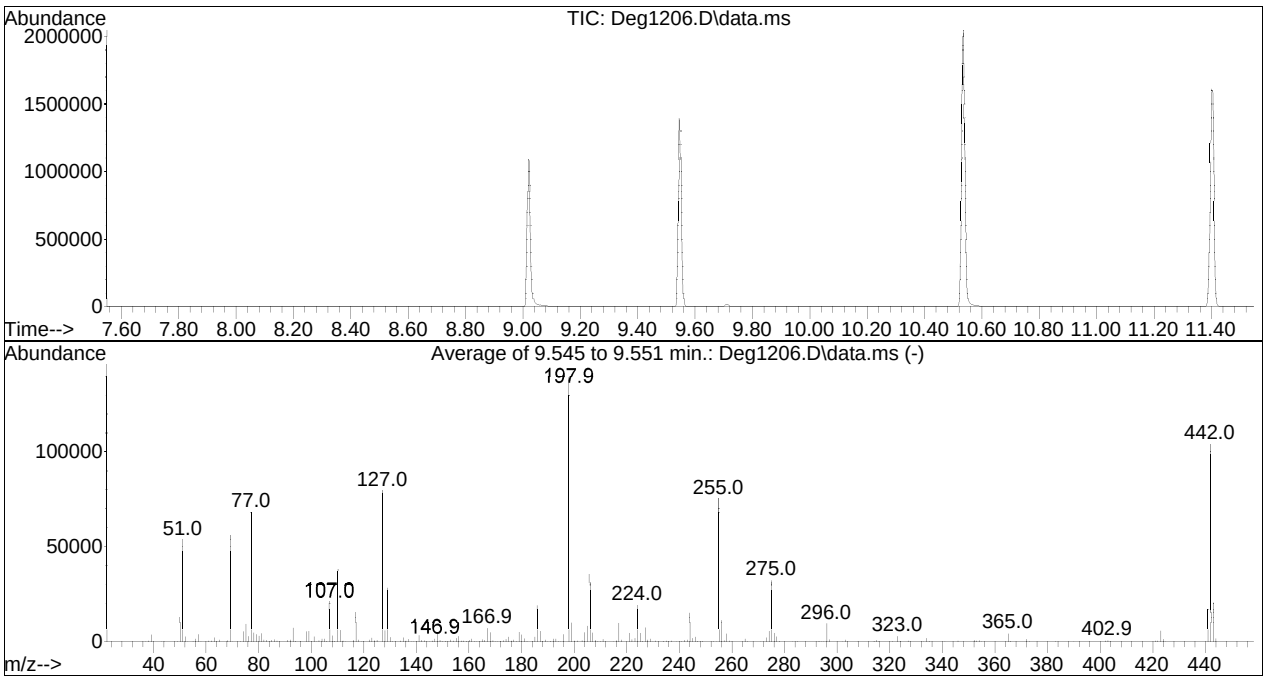
response 250534

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	63.00	63.66
165.10	60.40	57.89
199.10	16.10	16.42

Data Path : I:\8270\SV112\181206\
Data File : Deg1206.D
Acq On : 06 Dec 2018 02:49 pm
Operator : sv112:jg
Sample : wg1186484-1,32,,SV112degdft
Misc : wg1186484,,ical15308
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV112\181206\FS181205SV112.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Thu Dec 06 16:25:09 2018



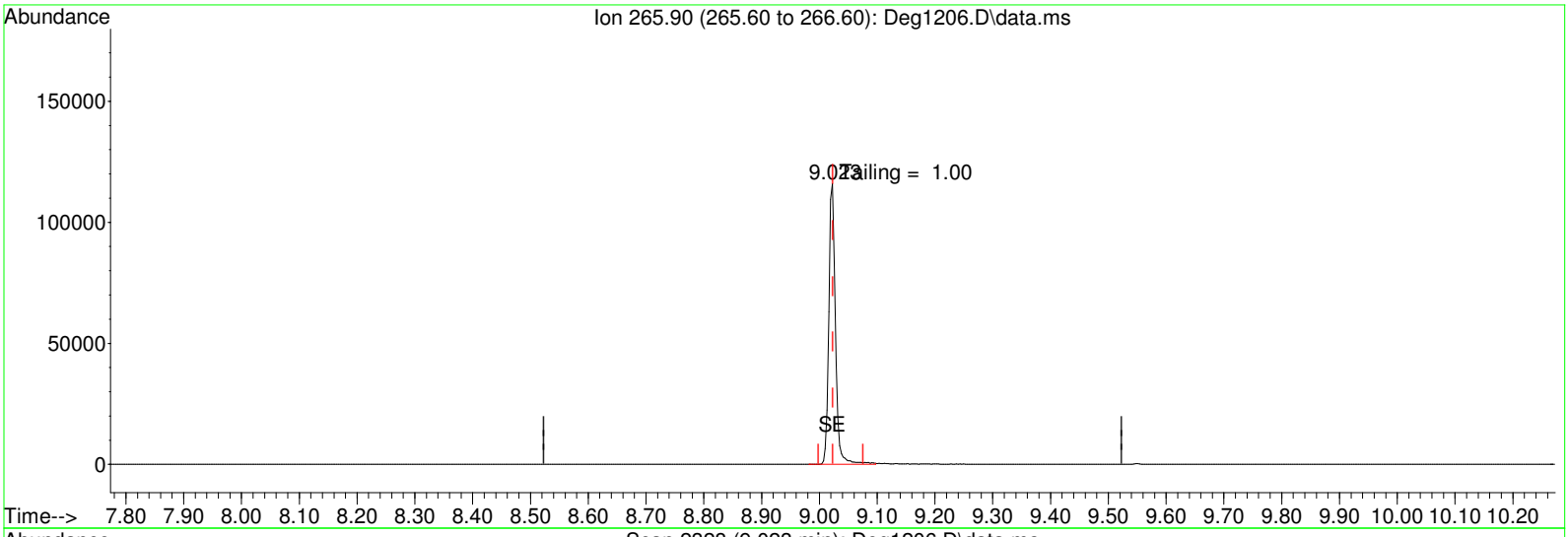
Spectrum Information: Average of 9.545 to 9.551 min.

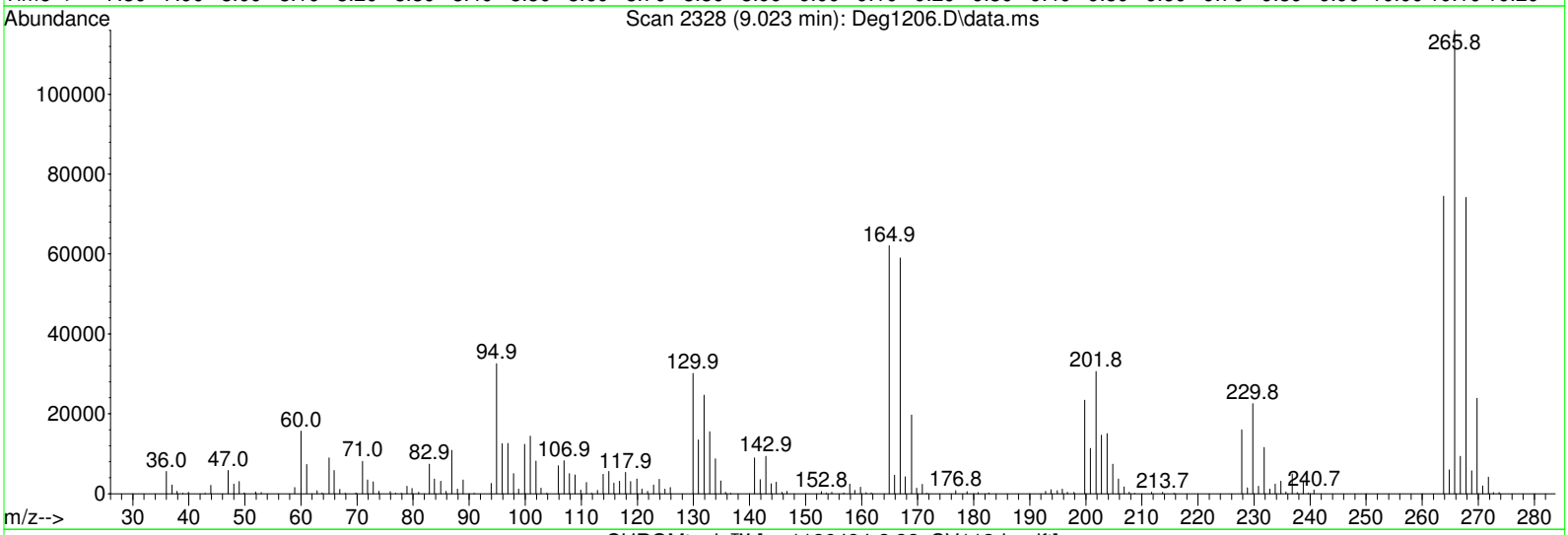
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	38.6	53661	PASS
68	69	0.00	2	1.6	909	PASS
70	69	0.00	2	0.5	266	PASS
127	198	10	80	57.0	79355	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	139192	PASS
199	198	5	9	7.0	9692	PASS
275	198	10	60	23.2	32339	PASS
365	198	1	100	3.0	4184	PASS
441	442	0.01	24	16.4	17038	PASS
442	198	50	100	74.8	104048	PASS
443	442	15	24	19.6	20412	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV112\181206\
Data File : Deg1206.D
Acq On : 06 Dec 2018 02:49 pm
Operator : sv112:jg
Sample : wg1186484-2,32,,SV112degdft
Misc : wg1186484,,ical15308
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Dec 06 18:36:09 2018
Quant Method : I:\8270\SV112\181206\dftppSV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 19:42:43 2018
Response via : Initial Calibration





CHROMtools™ [wg1186484-2,32,,SV112degdft]

(1) pentachlorophenol (T)

9.023min (-0.000) 43.60

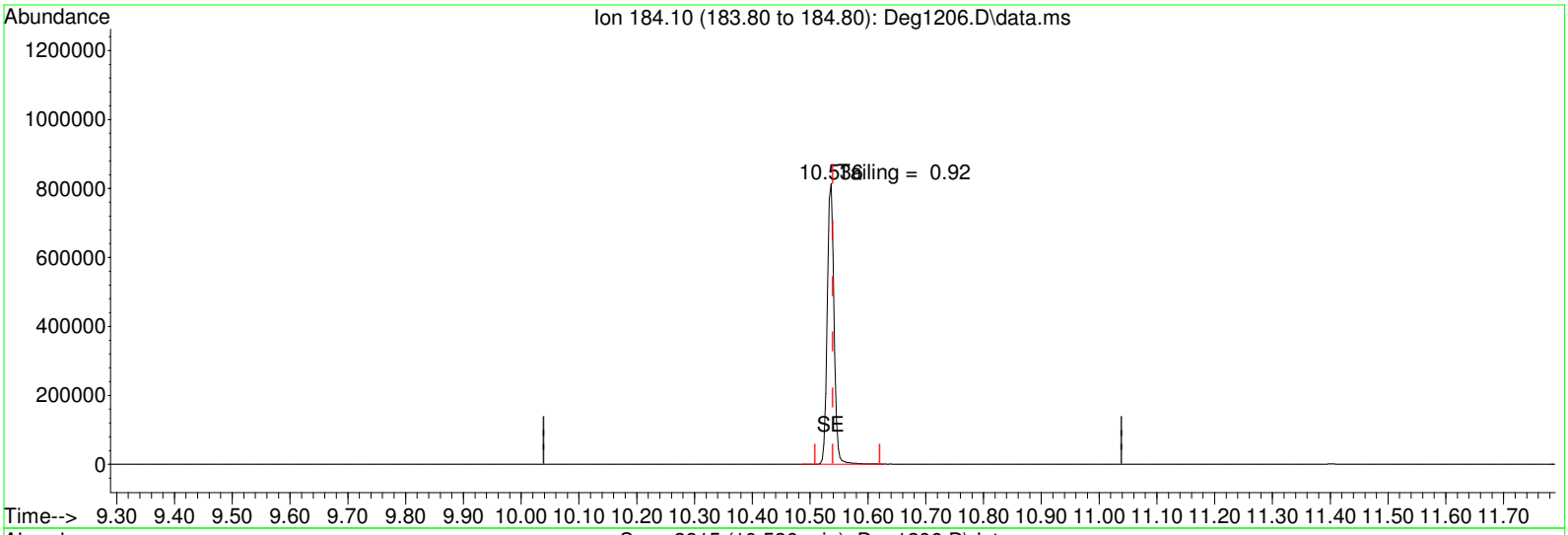
response 91571

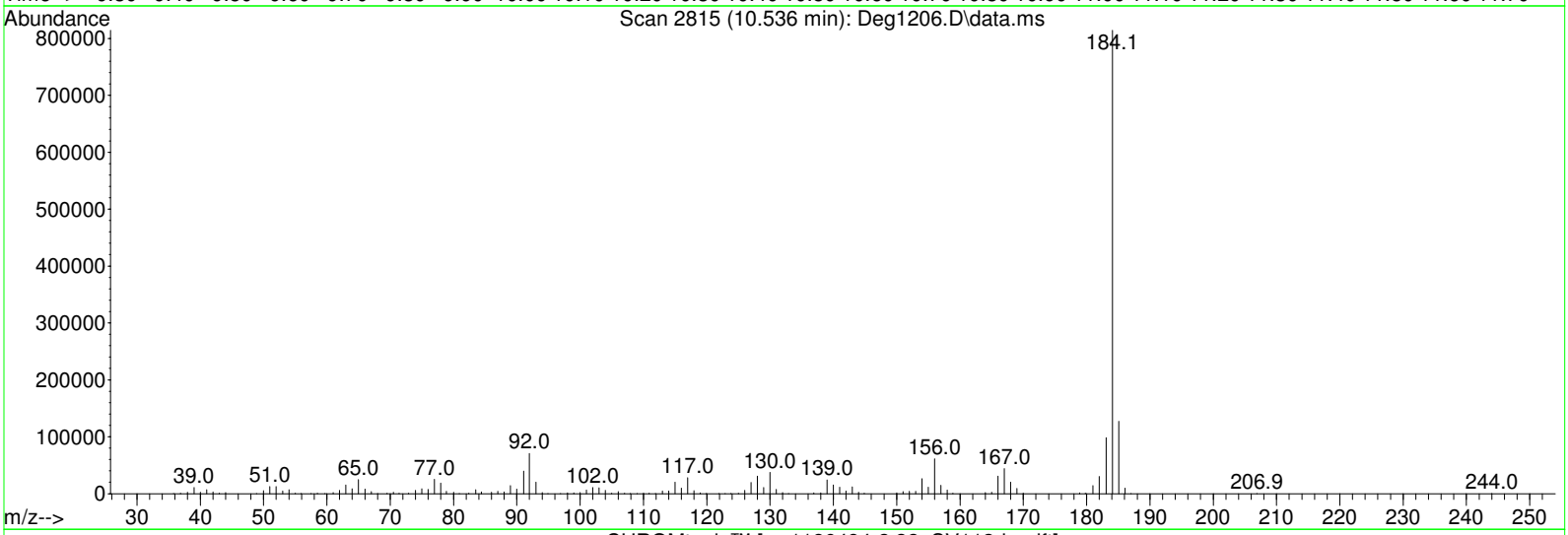
Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV112\181206\
Data File : Deg1206.D
Acq On : 06 Dec 2018 02:49 pm
Operator : sv112:jg
Sample : wg1186484-2,32,,SV112degdft
Misc : wg1186484,,ical15308
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Dec 06 18:36:09 2018
Quant Method : I:\8270\SV112\181206\dftppSV112.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 19:42:43 2018
Response via : Initial Calibration





CHROMtools™ [wg1186484-2,32,,SV112degdft]

(3) benzidine (T)

10.536min (-0.003) 64.85

response 660198

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV103\181207a\
Data File : ABN1207a.d
Acq On : 7 Dec 2018 12:36 pm
Operator : SV103:als
Sample : wg1186894-3,32,,ABN CCV Lot# 7925
Misc : wg1186894,wg1184908,ical15305
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Dec 07 13:10:05 2018
Quant Method : I:\8270\SV103\181207a\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 22:37:21 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	IS1_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	88	0.00
2	t	n-Nitrosodimethylamine	0.886	0.773	12.8	85	0.00
3	t	Pyridine	1.385	1.265	8.7	83	-0.03
4	S	2-Fluorophenol	1.328	1.355	-2.0	92	0.00
5	T	Aniline	2.146	2.122	1.1	91	0.00
6	t	2-Chlorophenol	1.469	1.534	-4.4	93	0.00
7	S	Phenol-d6	1.669	1.659	0.6	90	0.00
8	T	Phenol	1.963	1.870	4.7	88	0.00
9	T	Bis(2-chloroethyl)ether	1.398	1.323	5.4	89	0.00
10	T	1,3-Dichlorobenzene	1.546	1.585	-2.5	92	0.00
11	T	1,4-Dichlorobenzene	1.595	1.611	-1.0	92	0.00
12	T	1,2-Dichlorobenzene	1.517	1.526	-0.6	91	0.00
13	t	Benzyl alcohol	1.163	1.091	6.2	84	0.00
14	T	Bis(2-chloroisopropyl)ether	2.866	2.189	23.6#	78	0.00
15	T	2-Methylphenol	1.310	1.345	-2.7	93	0.00
16	T	Hexachloroethane	0.610	0.609	0.2	92	0.00
17	T	n-Nitrosodi-n-propylamine	1.038	0.930	10.4	81	-0.01
18	T	3-Methylphenol/4-Methylphen	1.366	1.453	-6.4	95	0.00
19	S	Nitrobenzene-d5	1.544	1.431	7.3	83	0.00
20	T	Nitrobenzene	1.561	1.422	8.9	83	0.00
21	T	Isophorone	2.651	2.672	-0.8	90	-0.02
22	T	2-Nitrophenol	0.757	0.840	-11.0	93	0.00
23	T	2,4-Dimethylphenol	1.321	1.290	2.3	87	0.00
24	T	Bis(2-chloroethoxy)methane	1.699	1.723	-1.4	92	0.00
25	T	2,4-Dichlorophenol	1.083	1.208	-11.5	96	0.00
26	T	1,2,4-Trichlorobenzene	1.189	1.223	-2.9	91	0.00
34	I	IS1_Naphthalene-d8	1.000	1.000	0.0	85	0.00
35	T	Naphthalene	0.983	1.072	-9.1	94	0.00
36	T	Benzoic Acid	0.249	0.294	-18.1	100	0.00
37	T	4-Chloroaniline	0.124	0.117	5.6	83	0.00
38	T	Hexachlorobutadiene	0.125	0.130	-4.0	88	0.00
39	T	p-Chloro-m-cresol	0.269	0.297	-10.4	93	0.00
40	T	2-Methylnaphthalene	0.649	0.703	-8.3	92	0.00
41	T	1-Methylnaphthalene	0.206	0.202	1.9	84	0.00
42	T	Hexachlorocyclopentadiene	0.153	0.152	0.7	81	0.00
43	T	2,4,6-Trichlorophenol	0.166	0.193	-16.3	93	0.00
44	T	2,4,5-Trichlorophenol	0.174	0.209	-20.1#	96	0.00
45	S	2-Fluorobiphenyl	0.623	0.711	-14.1	95	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV103\181207a\
Data File : ABN1207a.d
Acq On : 7 Dec 2018 12:36 pm
Operator : SV103:als
Sample : wg1186894-3,32,,ABN CCV Lot# 7925
Misc : wg1186894,wg1184908,ical15305
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Dec 07 13:10:05 2018
Quant Method : I:\8270\SV103\181207a\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 22:37:21 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
46	T	2-Chloronaphthalene	0.562	0.635	-13.0	95	0.00
47	T	2-Nitroaniline	0.201	0.247	-22.9#	98	0.00
48	T	1,4-Dinitrobenzene	0.092	0.110	-19.6	98	0.00
49	T	1,3-Dinitrobenzene	0.100	0.120	-20.0	95	0.00
50	T	Dimethyl phthalate	0.636	0.736	-15.7	94	-0.01
51	T	Acenaphthylene	0.926	1.065	-15.0	94	0.00
52	T	2,6-Dinitrotoluene	0.140	0.171	-22.1#	94	0.00
53	T	1,2-Dinitrobenzene	0.066	0.078	-18.2	97	0.00
62	I	IS1_Acenaphthene-d10	1.000	1.000	0.0	87	0.00
63	T	3-Nitroaniline	0.384	0.456	-18.8	96	0.00
64	T	Acenaphthene	1.205	1.264	-4.9	93	0.00
65	T	2,4-Dinitrophenol	0.214	0.239	-11.7	95	0.00
66	T	Dibenzofuran	1.756	1.895	-7.9	94	0.00
67	T	2,4-Dinitrotoluene	0.409	0.484	-18.3	95	0.00
68	T	4-Nitrophenol	0.334	0.321	3.9	84	0.00
69	T	2,3,5,6-Tetrachlorophenol	0.303	0.342	-12.9	96	0.00
70	T	2,3,4,6-Tetrachlorophenol	0.307	0.340	-10.7	95	0.00
71	T	Diethyl phthalate	1.499	1.626	-8.5	94	0.00
72	T	Fluorene	1.412	1.536	-8.8	94	0.00
73	T	4-Chlorophenyl phenyl ether	0.610	0.644	-5.6	93	0.00
74	T	4-Nitroaniline	0.379	0.467	-23.2#	99	0.00
75	T	4,6-Dinitro-o-cresol	0.245	0.279	-13.9	97	0.00
76	T	NDPA/DPA	1.192	1.302	-9.2	94	0.00
77	T	Azobenzene	1.598	1.566	2.0	87	0.00
78	S	2,4,6-Tribromophenol	0.166	0.197	-18.7	98	0.00
79	T	4-Bromophenyl phenyl ether	0.328	0.358	-9.1	95	0.00
80	T	Hexachlorobenzene	0.355	0.396	-11.5	96	0.00
81	T	Pentachlorophenol	0.225	0.255	-13.3	94	0.00
87	I	IS1_Phenanthrene-d10	1.000	1.000	0.0	86	0.00
88	T	Phenanthrene	1.103	1.169	-6.0	94	0.00
89	T	Anthracene	1.097	1.179	-7.5	93	0.00
90	T	Carbazole	1.017	1.155	-13.6	97	0.00
91	T	Di-n-butylphthalate	1.302	1.498	-15.1	96	0.00
92	T	Fluoranthene	1.080	1.186	-9.8	96	0.00
93	T	Benzidine	0.741	0.914	-23.3#	109	0.00
94	T	Pyrene	1.120	1.203	-7.4	94	0.00
95	S	4-Terphenyl-d14	0.779	0.829	-6.4	92	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV103\181207a\
Data File : ABN1207a.d
Acq On : 7 Dec 2018 12:36 pm
Operator : SV103:als
Sample : wg1186894-3,32,,ABN CCV Lot# 7925
Misc : wg1186894,wg1184908,ical15305
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Dec 07 13:10:05 2018
Quant Method : I:\8270\SV103\181207a\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 22:37:21 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96	T	Butyl benzyl phthalate	0.577	0.672	-16.5	99	0.00
103	I	IS1_Chrysene-d12	1.000	1.000	0.0	85	0.00
104	T	Benzo(a)anthracene	1.177	1.273	-8.2	93	0.00
105	T	3,3'-Dichlorobenzidine	0.428	0.502	-17.3	95	0.00
106	T	Chrysene	1.112	1.216	-9.4	94	0.00
107	T	Bis(2-ethylhexyl)phthalate	0.930	1.138	-22.4#	100	0.00
108	T	Di-n-octylphthalate	1.608	2.018	-25.5#	102	0.00
109	T	Benzo(b)fluoranthene	1.078	1.220	-13.2	93	0.00
110	T	Benzo(k)fluoranthene	1.082	1.192	-10.2	92	0.00
111	T	Benzo(a)pyrene	1.045	1.181	-13.0	92	0.00
112	I	IS1_Perylene-d12	1.000	1.000	0.0	81	0.01
113	T	Indeno(1,2,3-cd)pyrene	1.003	1.100	-9.7	87	0.01
114	T	Dibenzo(a,h)anthracene	1.025	1.115	-8.8	87	0.01
115	T	Benzo(ghi)perylene	1.063	1.124	-5.7	85	0.02

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181207a\
Data File : ABN1207a.d
Acq On : 7 Dec 2018 12:36 pm
Operator : SV103:als
Sample : wg1186894-3,32,,ABN CCV Lot# 7925
Misc : wg1186894,wg1184908,ical15305
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Dec 07 13:10:05 2018
Quant Method : I:\8270\SV103\181207a\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 22:37:21 2018
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	4.798	152	78275	40.000	ug/ml		0.00
34) IS1_Naphthalene-d8	6.043	136	335440	40.000	ug/ml		0.00
62) IS1_Acenaphthene-d10	7.756	164	161684	40.000	ug/ml		0.00
87) IS1_Phenanthrene-d10	9.194	188	303781	40.000	ug/ml		0.00
103) IS1_Chrysene-d12	12.075	240	259933	40.000	ug/ml	#	0.00
112) IS1_Perylene-d12	14.223	264	250796	40.000	ug/ml		0.01
System Monitoring Compounds							
4) 2-Fluorophenol	3.528	112	132624	51.035	ug/ml		0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 102.07%				
7) Phenol-d6	4.491	99	162360	49.720	ug/ml		0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 99.44%				
19) Nitrobenzene-d5	5.347	82	140049	46.356	ug/ml		0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 185.42%#				
45) 2-Fluorobiphenyl	7.117	172	297968	56.997	ug/ml		0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 227.99%#				
78) 2,4,6-Tribromophenol	8.526	330	39746	59.277	ug/ml		0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 118.55%#				
95) 4-Terphenyl-d14	10.802	244	314814	53.224	ug/ml		0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 212.90%#				
Target Compounds							Qvalue
2) n-Nitrosodimethylamine	2.139	74	75624	43.635	ug/ml		97
3) Pyridine	2.184	79	123793	45.685	ug/ml		85
5) Aniline	4.483	93	207591	49.426	ug/ml	#	88
6) 2-Chlorophenol	4.599	128	150051	52.205	ug/ml	#	88
8) Phenol	4.506	94	182957	47.624	ug/ml	#	96
9) Bis(2-chloroethyl)ether	4.562	93	129415	47.294	ug/ml		89
10) 1,3-Dichlorobenzene	4.741	146	155056	51.236	ug/ml		96
11) 1,4-Dichlorobenzene	4.815	146	157601	50.503	ug/ml		96
12) 1,2-Dichlorobenzene	4.963	146	149349	50.321	ug/ml		96
13) Benzyl alcohol	4.960	79	106735	46.909	ug/ml	#	88
14) Bis(2-chloroisopropyl)...	5.097	45	214197	38.188	ug/ml	#	97
15) 2-Methylphenol	5.091	108	131627	51.362	ug/ml		96
16) Hexachloroethane	5.290	117	59557	49.916	ug/ml		99
17) n-Nitrosodi-n-propylamine	5.222	70	90946	44.755	ug/ml	#	88
18) 3-Methylphenol/4-Methy...	5.247	108	142164	53.183	ug/ml		97
20) Nitrobenzene	5.364	77	139147	45.540	ug/ml	#	86
21) Isophorone	5.608	82	261400	50.393	ug/ml		95
22) 2-Nitrophenol	5.679	139	82150	55.432	ug/ml	#	81

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181207a\
Data File : ABN1207a.d
Acq On : 7 Dec 2018 12:36 pm
Operator : SV103:als
Sample : wg1186894-3,32,,ABN CCV Lot# 7925
Misc : wg1186894,wg1184908,ical15305
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Dec 07 13:10:05 2018
Quant Method : I:\8270\SV103\181207a\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 22:37:21 2018
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) 2,4-Dimethylphenol	5.759	107	126224	48.821	ug/ml	87
24) Bis(2-chloroethoxy)met...	5.841	93	168580	50.691	ug/ml	98
25) 2,4-Dichlorophenol	5.926	162	118227	55.779	ug/ml	97
26) 1,2,4-Trichlorobenzene	5.997	180	119624	51.393	ug/ml	98
35) Naphthalene	6.063	128	449468	54.534	ug/ml	100
36) Benzoic Acid	5.881	105	123395	59.211	ug/ml	89
37) 4-Chloroaniline	6.137	65	49194	47.418	ug/ml#	48
38) Hexachlorobutadiene	6.208	225	54432	51.773	ug/ml	99
39) p-Chloro-m-cresol	6.639	107	124646	55.166	ug/ml	89
40) 2-Methylnaphthalene	6.745	142	294752	54.139	ug/ml	96
41) 1-Methylnaphthalene	6.838	115	84729	49.045	ug/ml#	62
42) Hexachlorocyclopentadiene	6.912	237	63645	49.617	ug/ml	95
43) 2,4,6-Trichlorophenol	7.034	196	80877	58.187	ug/ml	94
44) 2,4,5-Trichlorophenol	7.069	196	87537	59.835	ug/ml	94
46) 2-Chloronaphthalene	7.213	162	266435	56.553	ug/ml	96
47) 2-Nitroaniline	7.330	138	103557	61.430	ug/ml#	80
48) 1,4-Dinitrobenzene	7.463	168	46134	60.029	ug/ml	78
49) 1,3-Dinitrobenzene	7.537	168	50426	59.842	ug/ml	79
50) Dimethyl phthalate	7.529	163	308461	57.864	ug/ml	99
51) Acenaphthylene	7.614	152	446372	57.486	ug/ml	99
52) 2,6-Dinitrotoluene	7.574	165	71694	61.199	ug/ml#	84
53) 1,2-Dinitrobenzene	7.620	168	32542	59.124	ug/ml	82
63) 3-Nitroaniline	7.733	138	92090	59.347	ug/ml#	86
64) Acenaphthene	7.787	154	255537	52.465	ug/ml	98
65) 2,4-Dinitrophenol	7.833	184	48355	55.880	ug/ml	89
66) Dibenzofuran	7.958	168	383063	53.976	ug/ml	90
67) 2,4-Dinitrotoluene	7.964	165	97881	59.188	ug/ml	86
68) 4-Nitrophenol	7.932	65	64789	47.990	ug/ml#	78
69) 2,3,5,6-Tetrachlorophenol	8.049	232	69048	56.351	ug/ml	98
70) 2,3,4,6-Tetrachlorophenol	8.091	232	68645	55.405	ug/ml	98
71) Diethyl phthalate	8.222	149	328633	54.233	ug/ml	99
72) Fluorene	8.290	166	310353	54.390	ug/ml	100
73) 4-Chlorophenyl phenyl ...	8.305	204	130237	52.818	ug/ml	91
74) 4-Nitroaniline	8.327	138	94284	61.598	ug/ml#	76
75) 4,6-Dinitro-o-cresol	8.359	198	56305	56.873	ug/ml	89
76) NDPA/DPA	8.424	169	263098	54.602	ug/ml	97
77) Azobenzene	8.458	77	316542	49.017	ug/ml	96
79) 4-Bromophenyl phenyl e...	8.776	248	72331	54.526	ug/ml	89
80) Hexachlorobenzene	8.827	284	79962	55.724	ug/ml	98
81) Pentachlorophenol	9.026	266	51478	56.658	ug/ml	98
88) Phenanthrene	9.217	178	444085	53.019	ug/ml	100

Data Path : I:\8270\SV103\181207a\
Data File : ABN1207a.d
Acq On : 7 Dec 2018 12:36 pm
Operator : SV103:als
Sample : wg1186894-3,32,,ABN CCV Lot# 7925
Misc : wg1186894,wg1184908,ical15305
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Dec 07 13:10:05 2018
Quant Method : I:\8270\SV103\181207a\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 22:37:21 2018
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
89) Anthracene	9.268	178	447713	53.731 ug/ml	99
90) Carbazole	9.438	167	438550	56.767 ug/ml	99
91) Di-n-butylphthalate	9.819	149	568922	57.540 ug/ml	99
92) Fluoranthene	10.376	202	450237	54.892 ug/ml#	96
93) Benzidine	10.538	184	347107	61.701 ug/ml	99
94) Pyrene	10.603	202	456959	53.734 ug/ml	99
96) Butyl benzyl phthalate	11.407	149	255139	58.238 ug/ml	94
104) Benzo(a)anthracene	12.061	228	413663	54.079 ug/ml	99
105) 3,3'-Dichlorobenzidine	12.064	252	162972	58.553 ug/ml	98
106) Chrysene	12.109	228	395241	54.718 ug/ml	99
107) Bis(2-ethylhexyl)phtha...	12.231	149	369682	61.203 ug/ml	99
108) Di-n-octylphthalate	13.226	149	655826	62.755 ug/ml	96
109) Benzo(b)fluoranthene	13.644	252	396276	56.594 ug/ml#	94
110) Benzo(k)fluoranthene	13.683	252	387447	55.096 ug/ml#	94
111) Benzo(a)pyrene	14.132	252	383719	56.521 ug/ml#	93
113) Indeno(1,2,3-cd)pyrene	15.837	276	344989	54.864 ug/mL#	89
114) Dibenzo(a,h)anthracene	15.894	278	349625	54.424 ug/ml#	92
115) Benzo(ghi)perylene	16.218	276	352342	52.853 ug/ml#	87

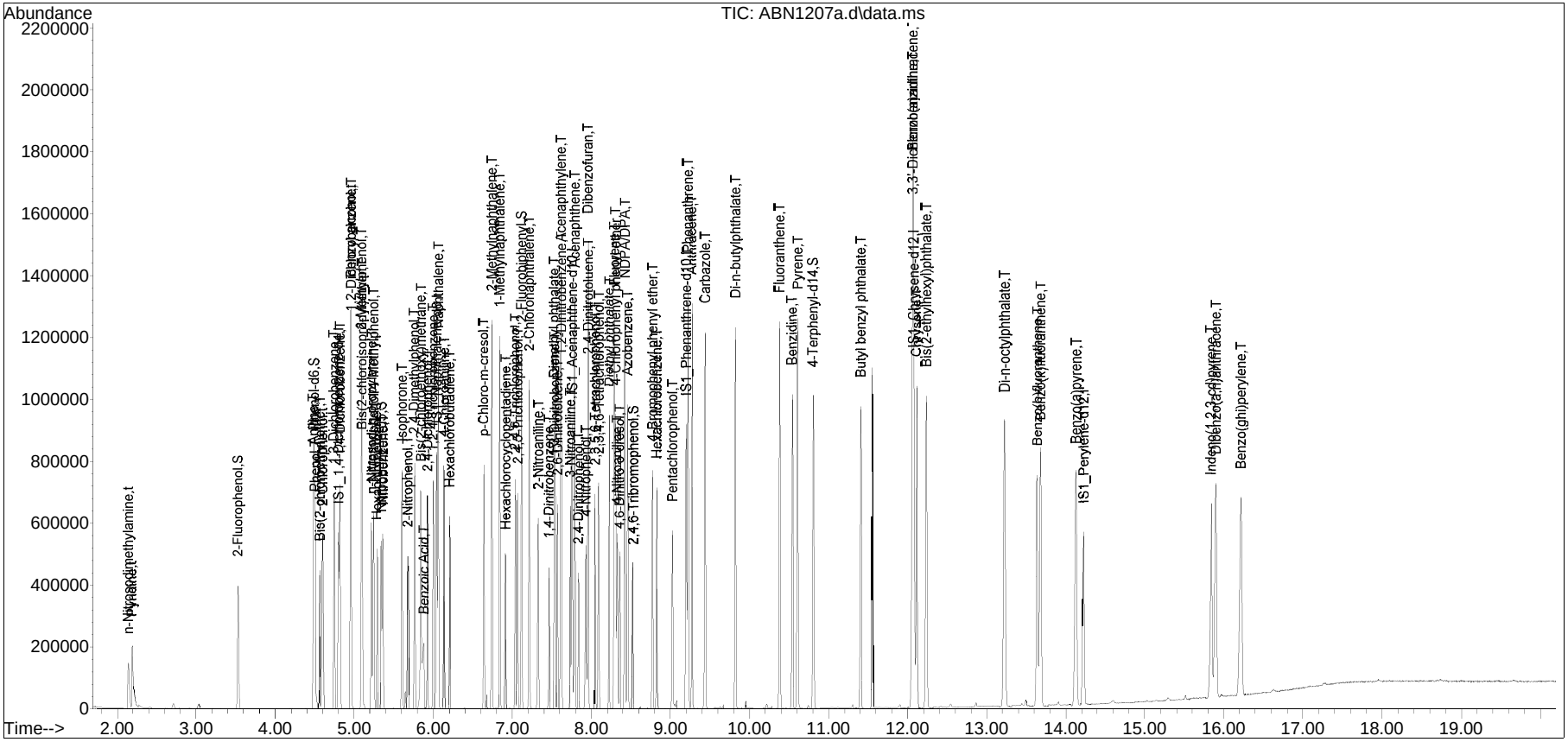
(#) = qualifier out of range (m) = manual integration (+) = signals summed

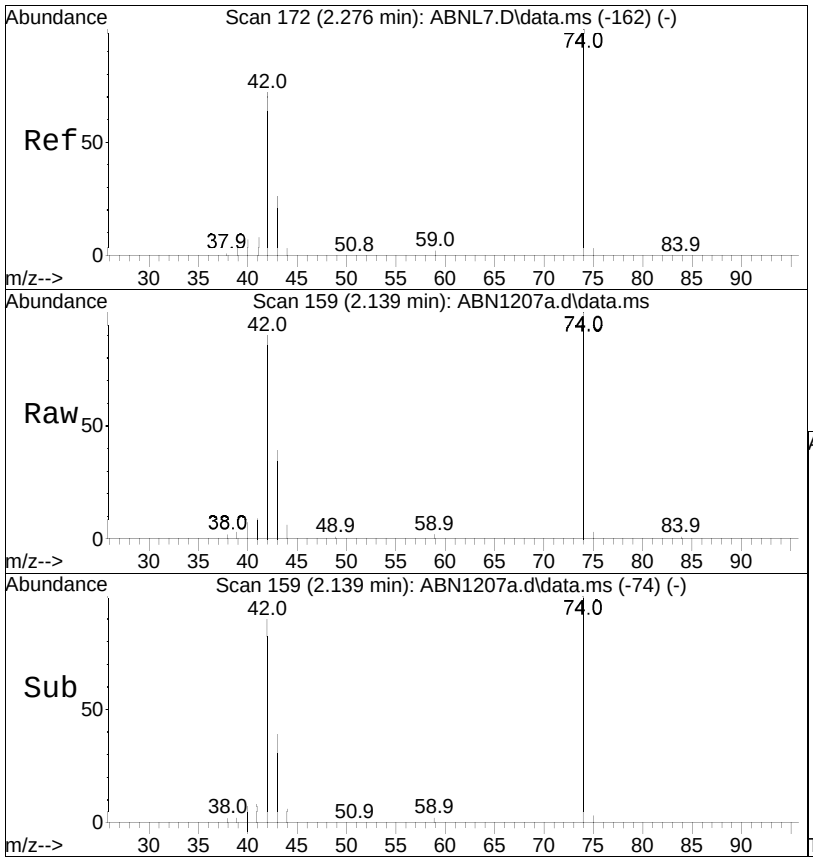
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181207a\
Data File : ABN1207a.d
Acq On : 7 Dec 2018 12:36 pm
Operator : SV103:als
Sample : wg1186894-3,32,,ABN CCV Lot# 7925
Misc : wg1186894,wg1184908,ical15305
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Dec 07 13:10:05 2018
Quant Method : I:\8270\SV103\181207a\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 22:37:21 2018
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

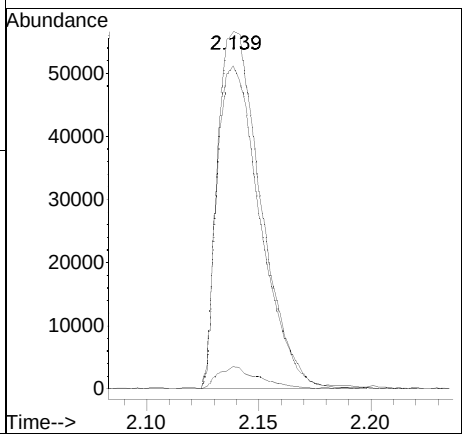


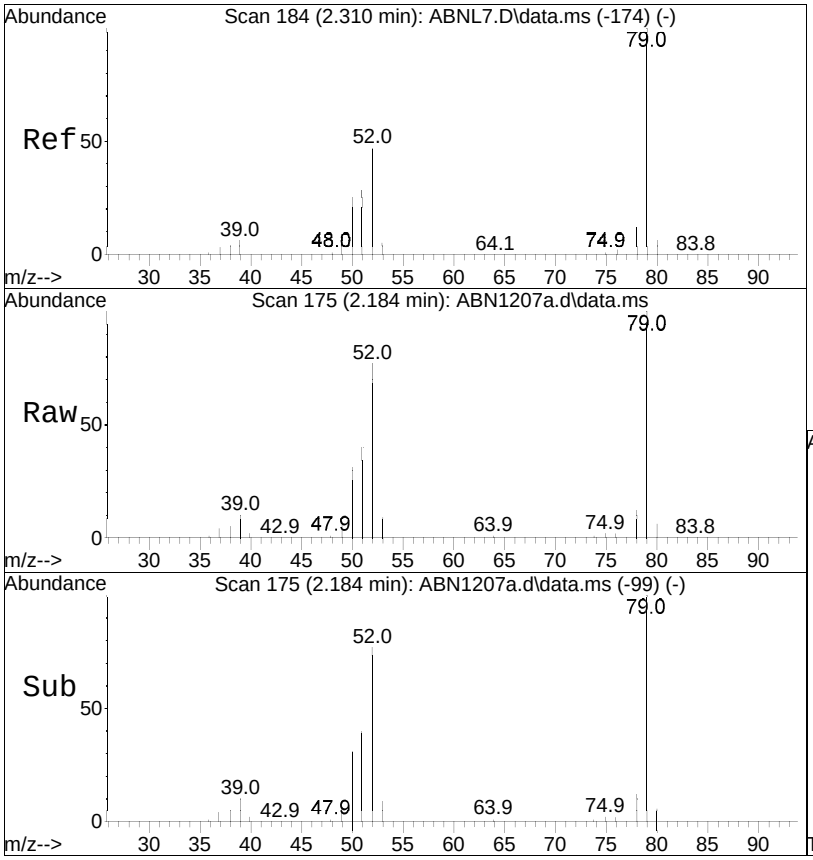


#2
n-Nitrosodimethylamine
Concen: 43.63 ug/ml
RT: 2.139 min Scan# 159
Delta R.T. -0.008 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion: 74 Resp: 75624

Ion	Ratio	Lower	Upper
74	100		
42	90.4	74.5	111.7
44	6.0	5.5	8.3

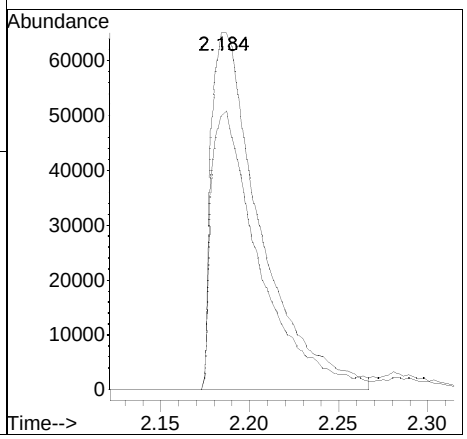


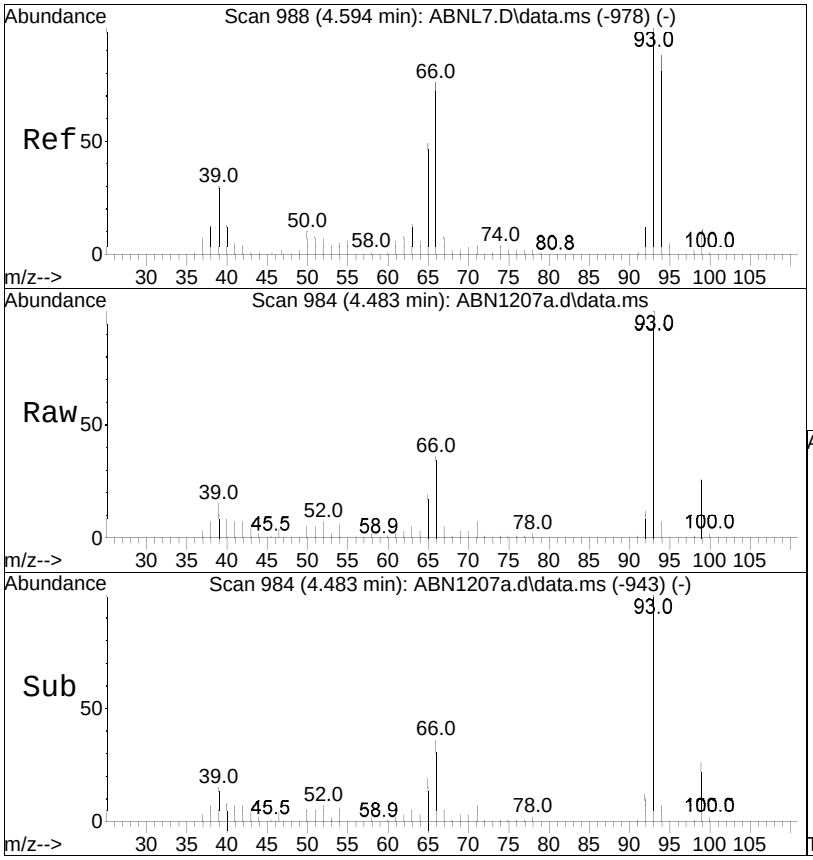


#3
Pyridine
Concen: 45.69 ug/ml
RT: 2.184 min Scan# 175
Delta R.T. -0.034 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion: 79 Resp: 123793

Ion	Ratio	Lower	Upper
79	100		
52	77.3	72.9	109.3

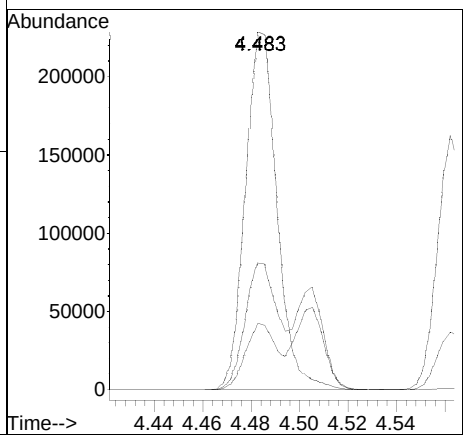


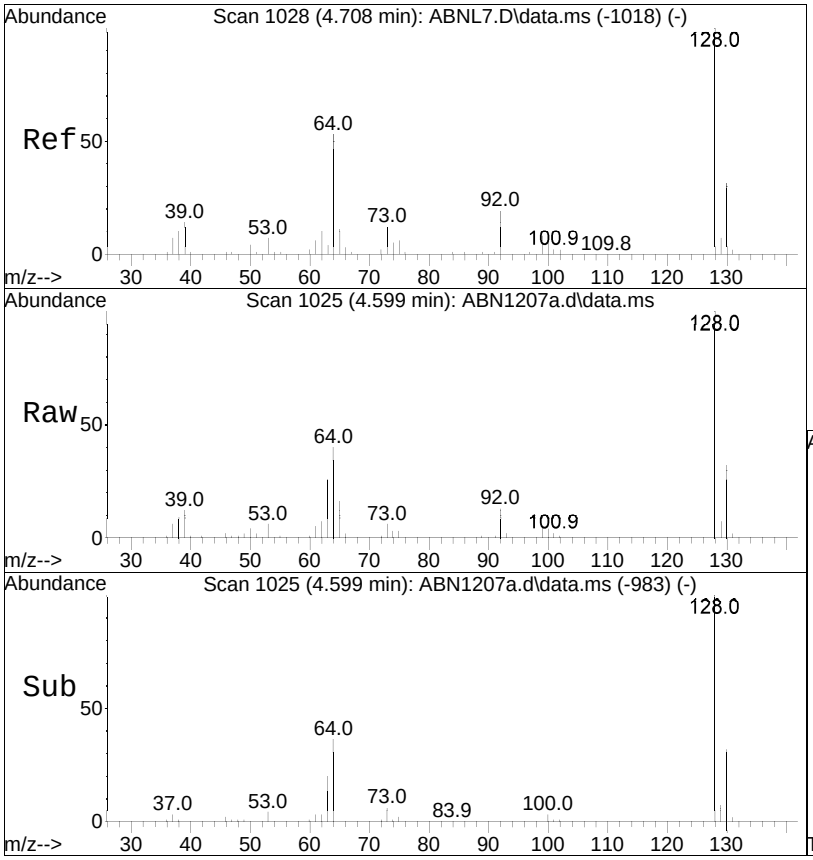


#5
Aniline
Concen: 49.43 ug/ml
RT: 4.483 min Scan# 984
Delta R.T. -0.008 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion: 93 Resp: 207591

Ion	Ratio	Lower	Upper
93	100		
66	36.5	37.3	55.9#
65	18.9	16.7	25.1

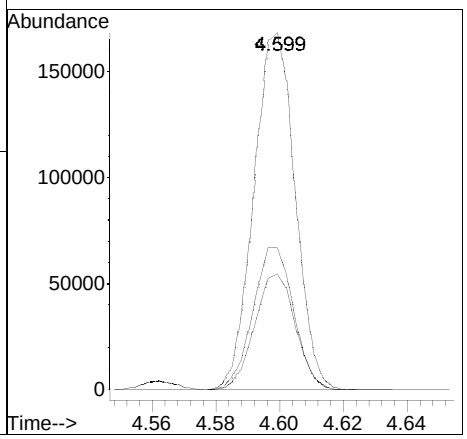


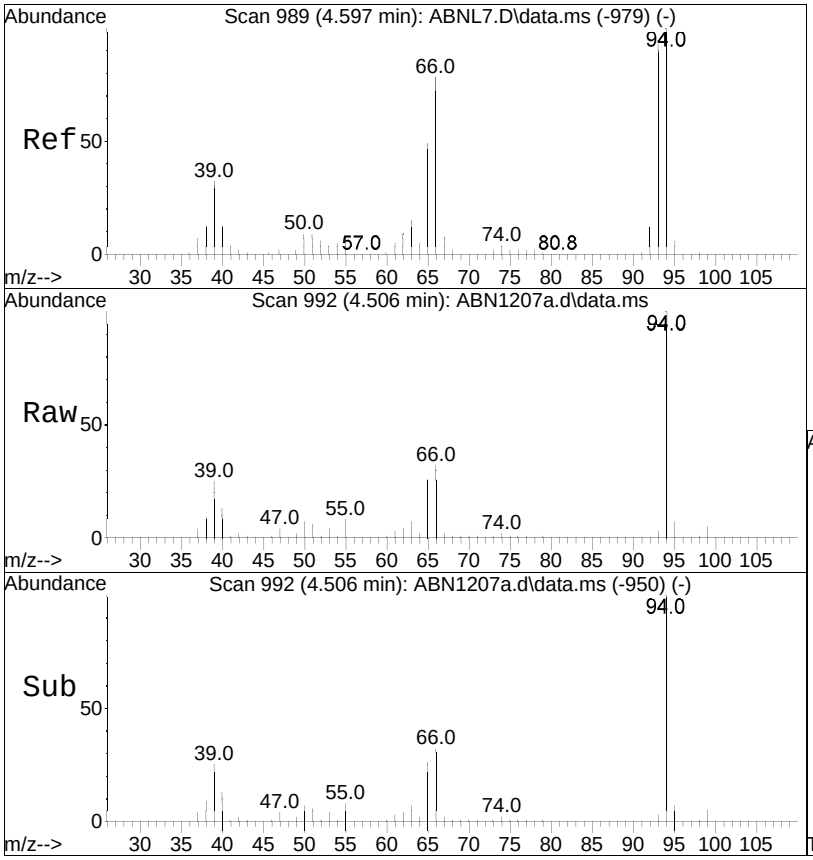


#6
2-Chlorophenol
Concen: 52.21 ug/ml
RT: 4.599 min Scan# 1025
Delta R.T. -0.006 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion:128 Resp: 150051

Ion	Ratio	Lower	Upper
128	100		
64	39.5	42.7	64.1#
130	32.2	25.8	38.6

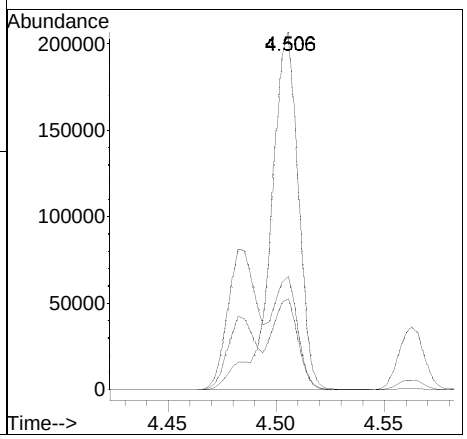


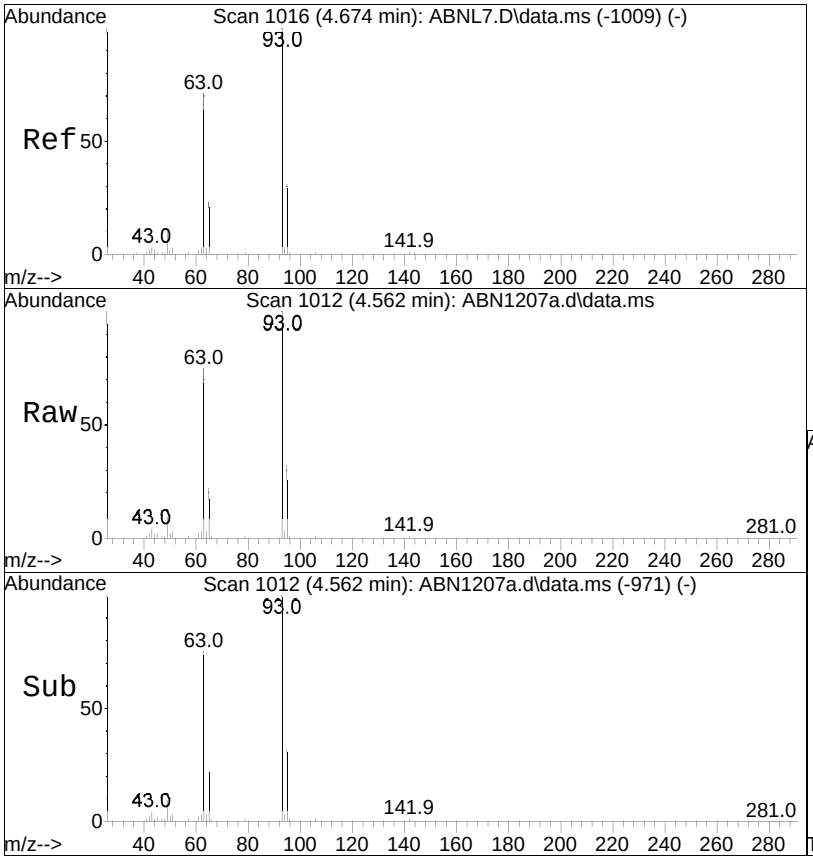


#8
Phenol
Concen: 47.62 ug/ml
RT: 4.506 min Scan# 992
Delta R.T. -0.005 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion: 94 Resp: 182957

Ion	Ratio	Lower	Upper
94	100		
65	23.4	20.5	30.7
66	29.1	0.0	0.0#

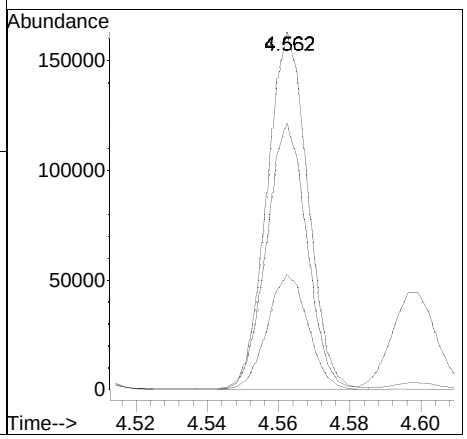


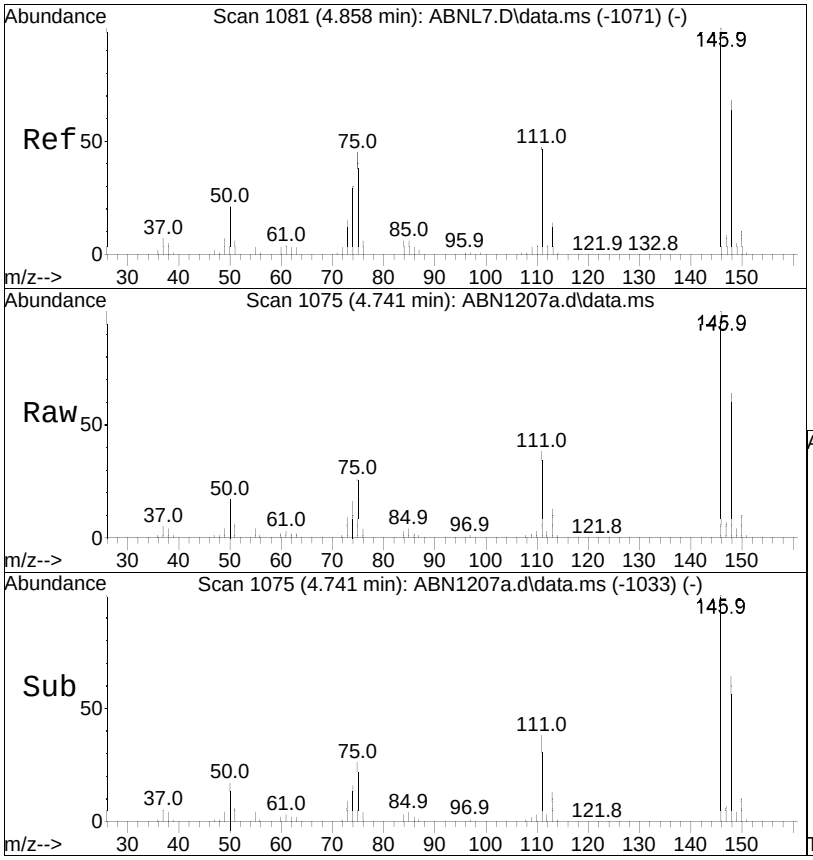


#9
Bis(2-chloroethyl)ether
Concen: 47.29 ug/ml
RT: 4.562 min Scan# 1012
Delta R.T. -0.009 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion: 93 Resp: 129415

Ion	Ratio	Lower	Upper
93	100		
63	74.0	70.4	105.6
95	32.3	25.8	38.6

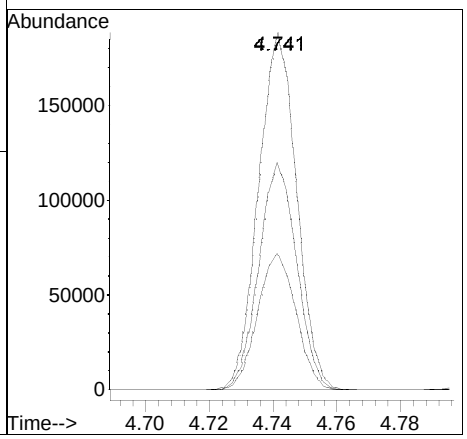


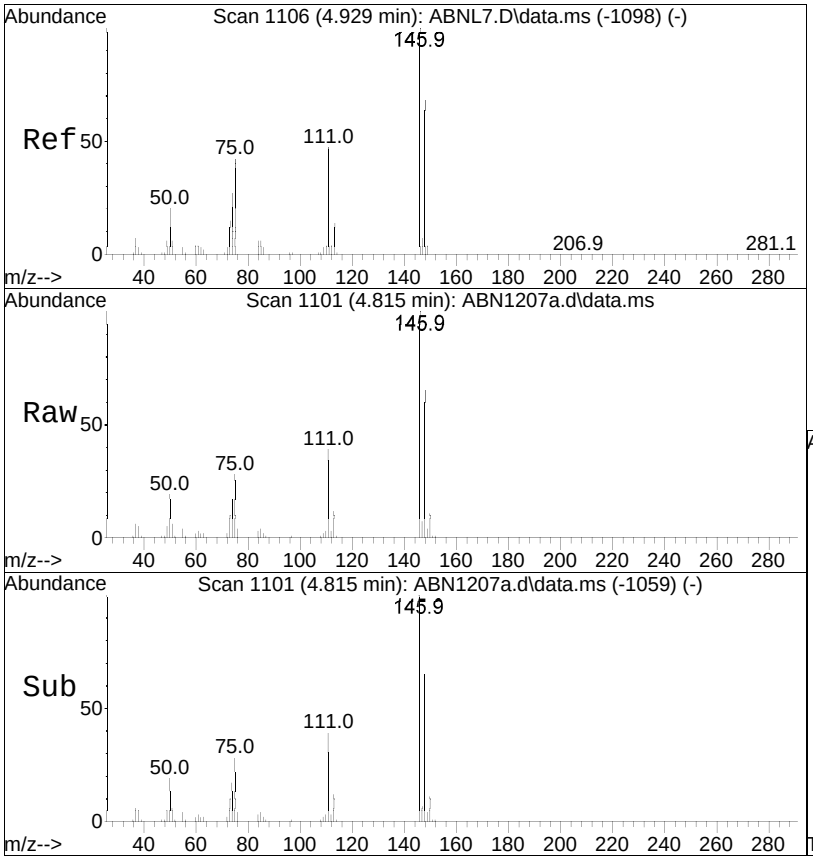


#10
1,3-Dichlorobenzene
Concen: 51.24 ug/ml
RT: 4.741 min Scan# 1075
Delta R.T. -0.006 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion:146 Resp: 155056

Ion	Ratio	Lower	Upper
146	100		
111	38.8	35.8	53.6
148	63.3	51.2	76.8

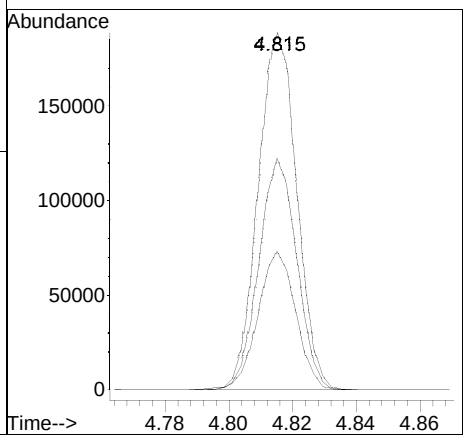


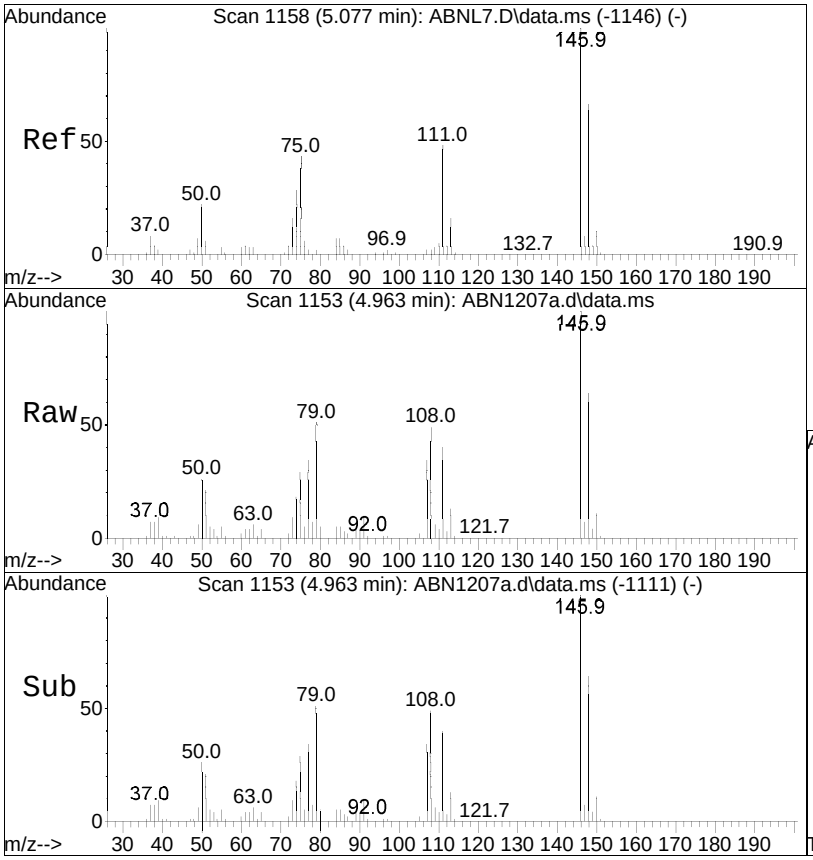


#11
1,4-Dichlorobenzene
Concen: 50.50 ug/ml
RT: 4.815 min Scan# 1101
Delta R.T. -0.006 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion:146 Resp: 157601

Ion	Ratio	Lower	Upper
146	100		
148	63.8	51.6	77.4
111	38.4	35.3	52.9

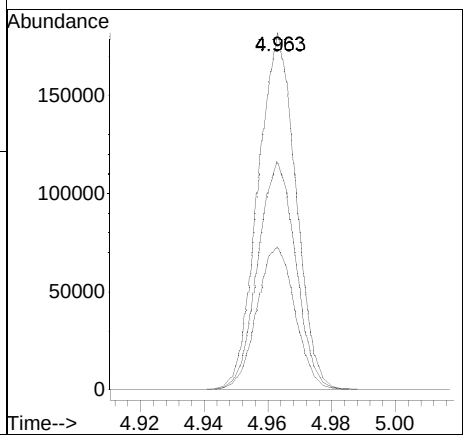


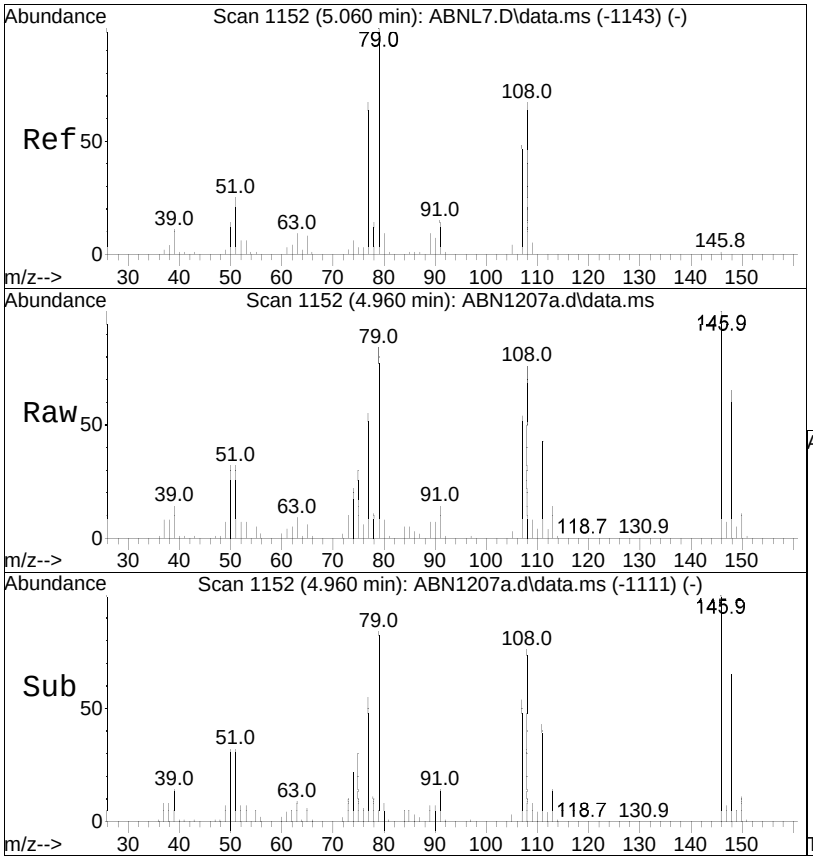


#12
1,2-Dichlorobenzene
Concen: 50.32 ug/ml
RT: 4.963 min Scan# 1153
Delta R.T. -0.006 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion:146 Resp: 149349

Ion	Ratio	Lower	Upper
146	100		
111	40.5	36.0	54.0
148	63.9	49.9	74.9

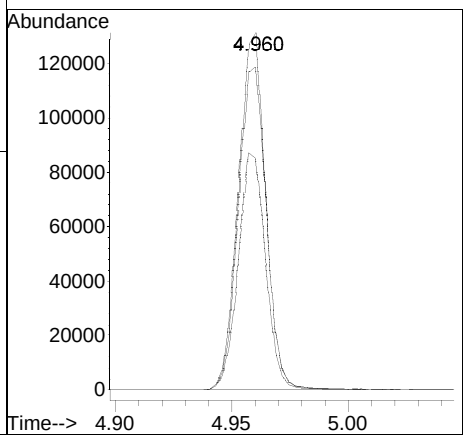


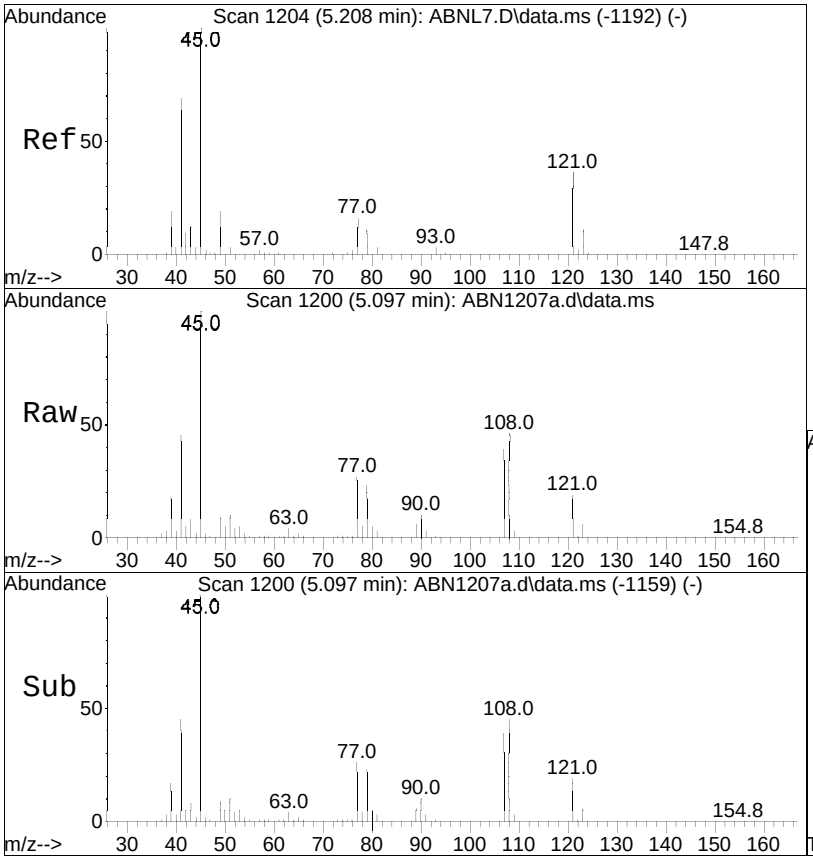


#13
Benzyl alcohol
Concen: 46.91 ug/ml
RT: 4.960 min Scan# 1152
Delta R.T. -0.009 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion: 79 Resp: 106735

Ion	Ratio	Lower	Upper
79	100		
77	66.7	52.3	78.5
108	92.8	60.2	90.4#

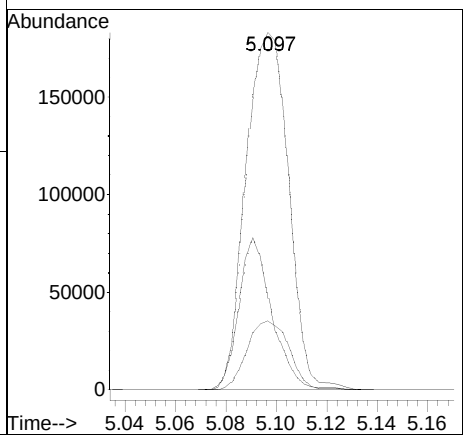


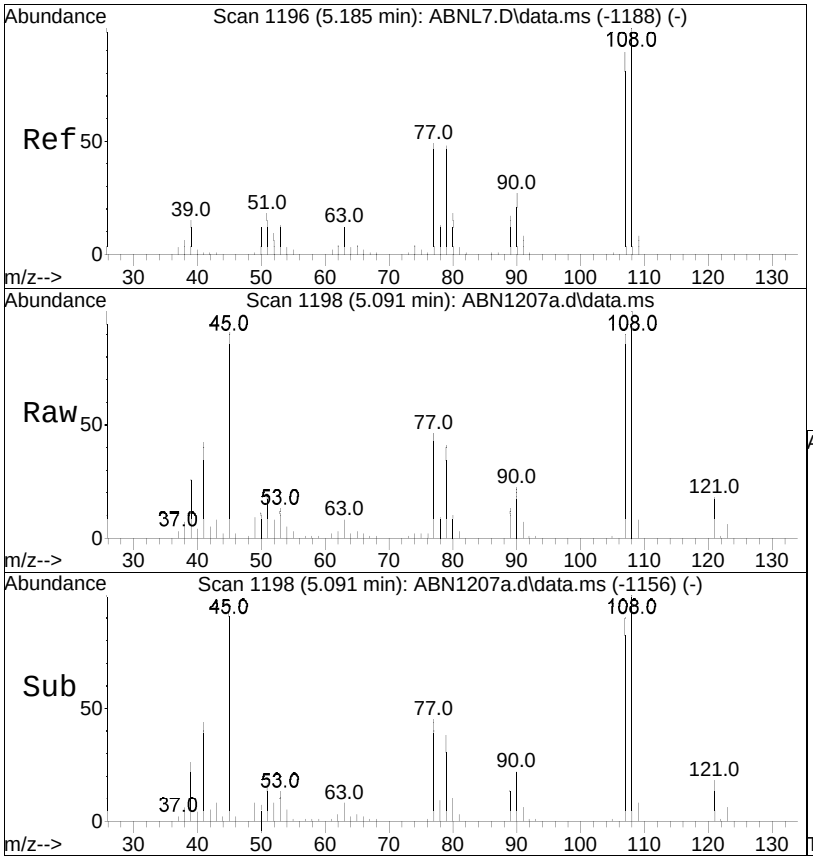


#14
Bis(2-chloroisopropyl)ether
Concen: 38.19 ug/ml
RT: 5.097 min Scan# 1200
Delta R.T. -0.008 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion: 45 Resp: 214197

Ion	Ratio	Lower	Upper
45	100		
121	19.3	12.6	19.0#
77	33.5	26.4	39.6

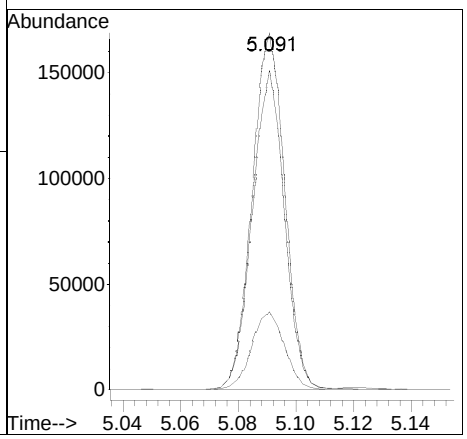


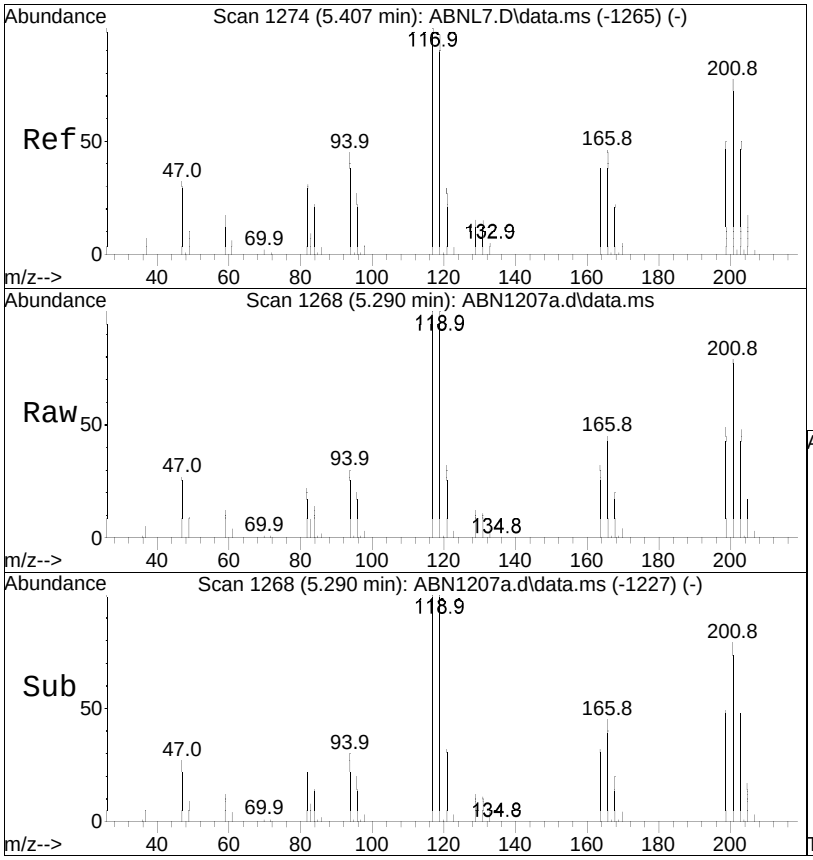


#15
2-Methylphenol
Concen: 51.36 ug/ml
RT: 5.091 min Scan# 1198
Delta R.T. -0.006 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion:108 Resp: 131627

Ion	Ratio	Lower	Upper
108	100		
107	87.9	72.8	109.2
90	22.0	20.2	30.4

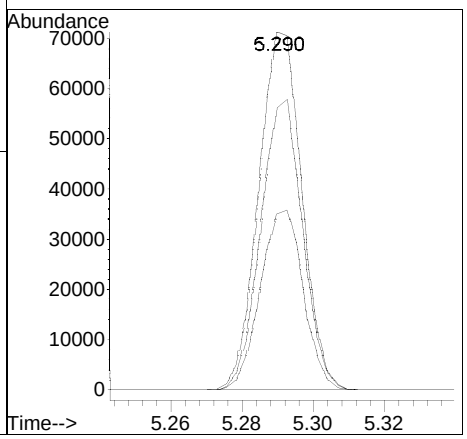


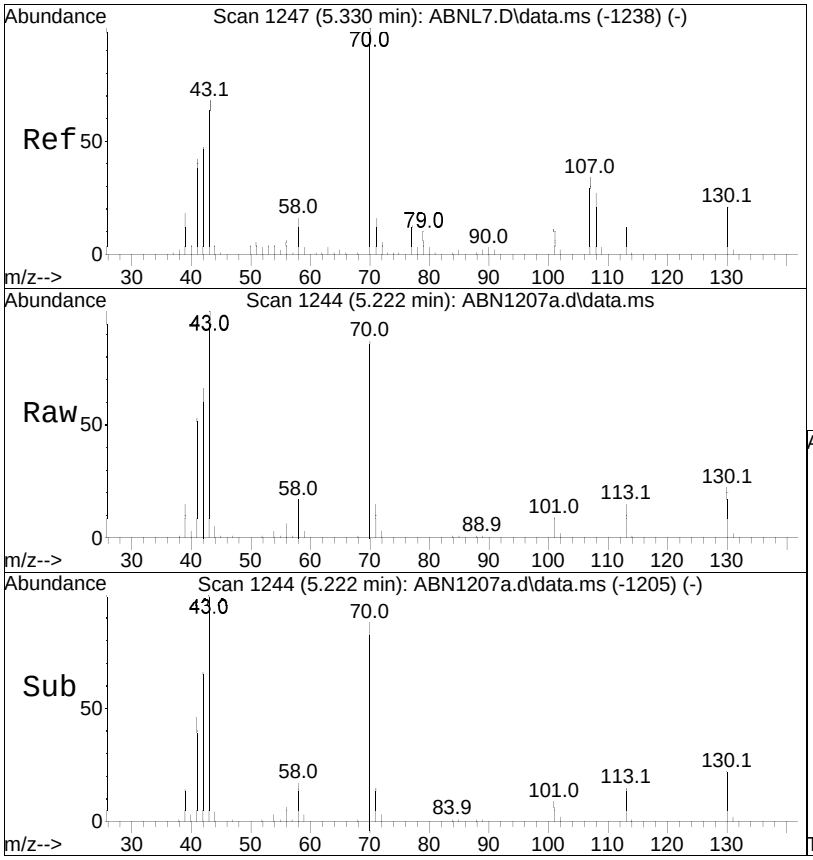


#16
Hexachloroethane
Concen: 49.92 ug/ml
RT: 5.290 min Scan# 1268
Delta R.T. -0.008 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion:117 Resp: 59557

Ion	Ratio	Lower	Upper
117	100		
201	78.7	64.5	96.7
199	50.3	40.3	60.5

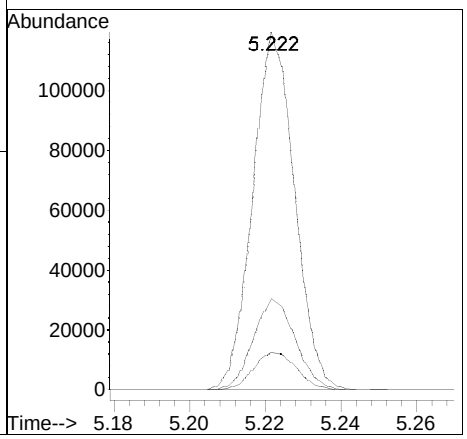


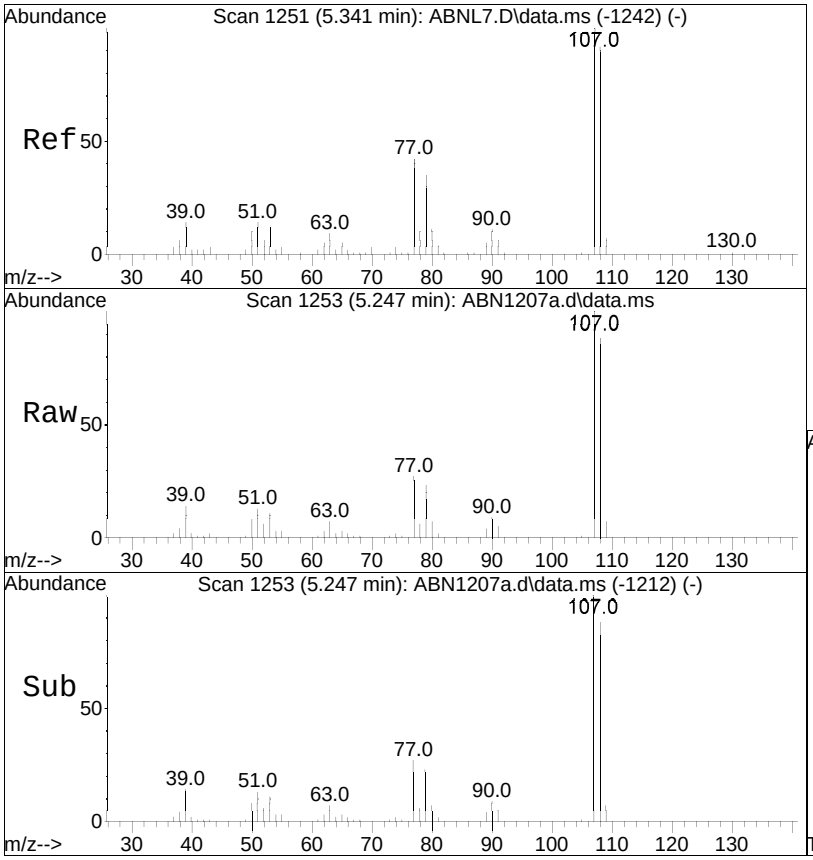


#17
n-Nitrosodi-n-propylamine
Concen: 44.75 ug/ml
RT: 5.222 min Scan# 1244
Delta R.T. -0.014 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion: 70 Resp: 90946

Ion	Ratio	Lower	Upper
70	100		
130	25.6	15.0	22.4#
101	10.8	7.4	11.0

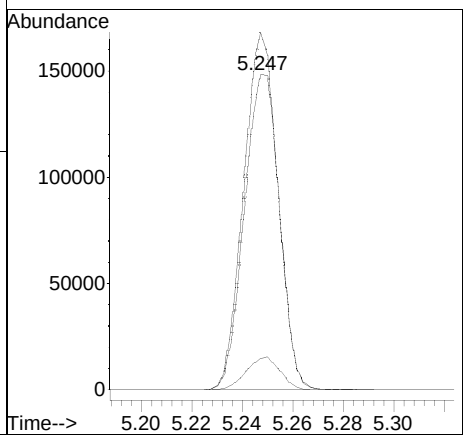


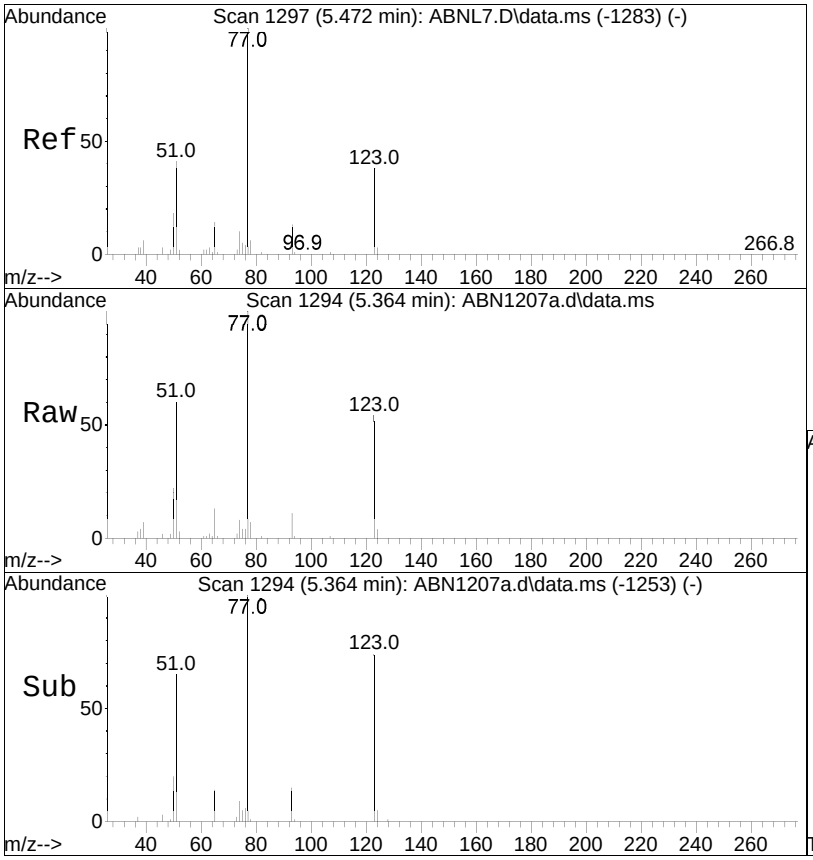


#18
3-Methylphenol/4-Methylphenol
Concen: 53.18 ug/ml
RT: 5.247 min Scan# 1253
Delta R.T. -0.009 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion:108 Resp: 142164

Ion	Ratio	Lower	Upper
108	100		
107	110.0	90.4	135.6
90	10.1	9.2	13.8

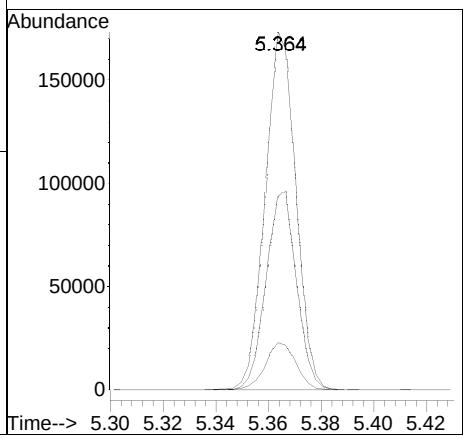


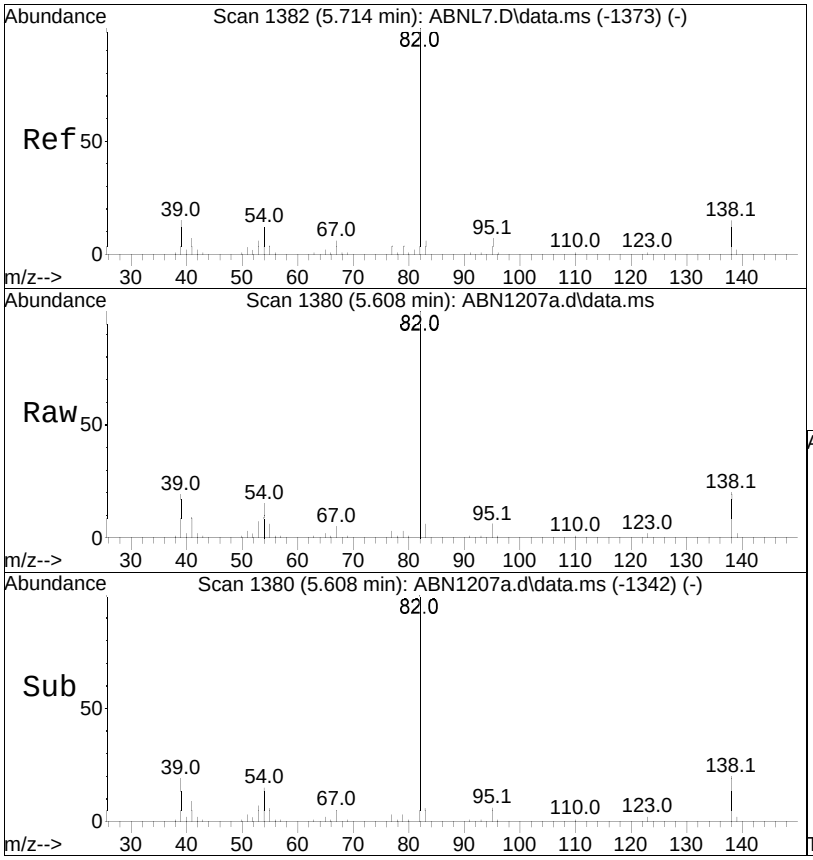


#20
Nitrobenzene
Concen: 45.54 ug/ml
RT: 5.364 min Scan# 1294
Delta R.T. -0.008 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion: 77 Resp: 139147

Ion	Ratio	Lower	Upper
77	100		
123	54.9	35.0	52.4#
65	13.3	11.5	17.3

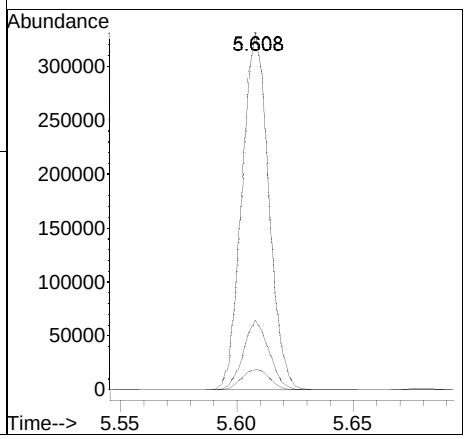


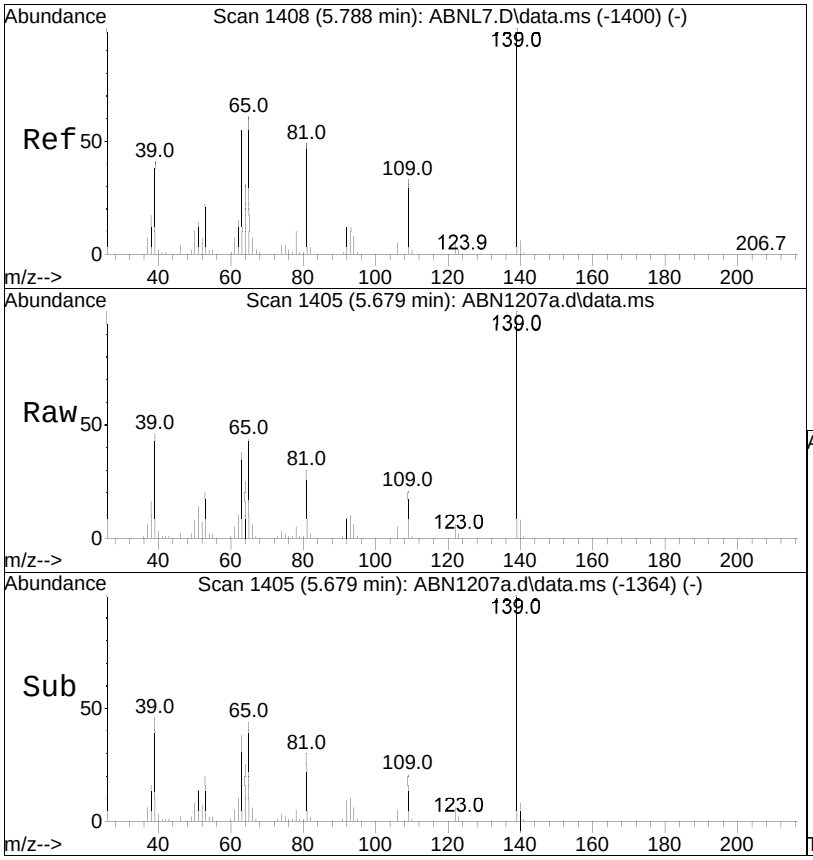


#21
Isophorone
Concen: 50.39 ug/ml
RT: 5.608 min Scan# 1380
Delta R.T. -0.017 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion: 82 Resp: 261400

Ion	Ratio	Lower	Upper
82	100		
138	18.8	12.8	19.2
95	6.1	5.5	8.3

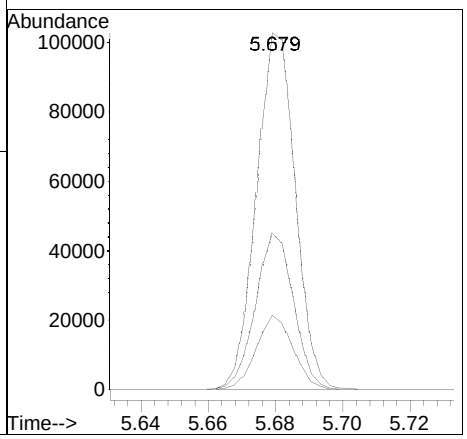


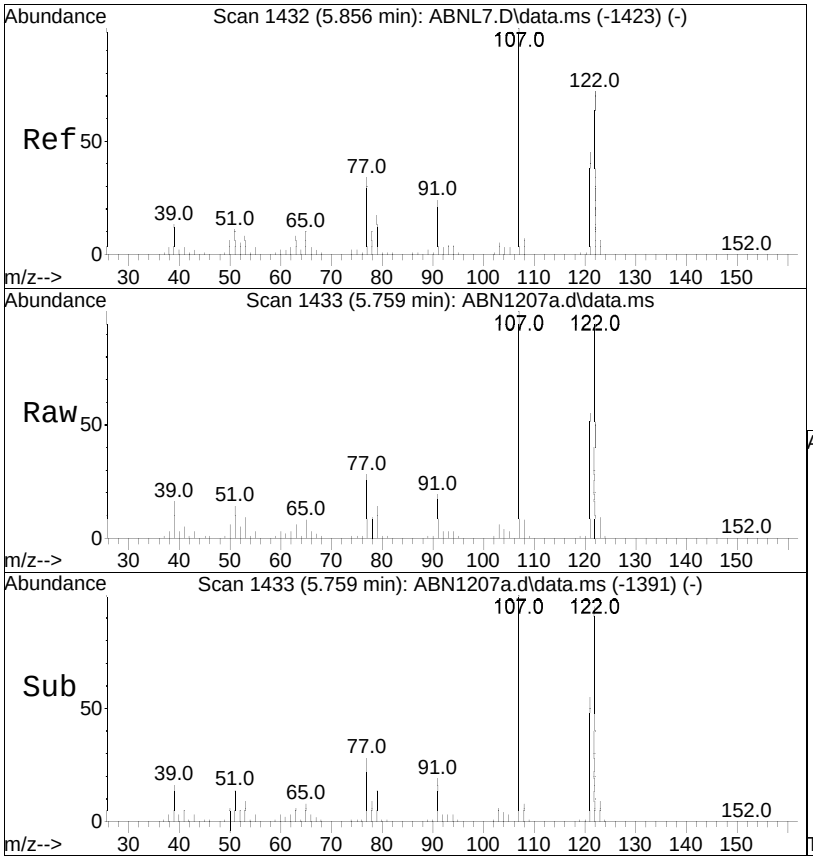


#22
2-Nitrophenol
Concen: 55.43 ug/ml
RT: 5.679 min Scan# 1405
Delta R.T. -0.009 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion:139 Resp: 82150

Ion	Ratio	Lower	Upper
139	100		
109	19.8	24.8	37.2#
65	43.2	45.5	68.3#

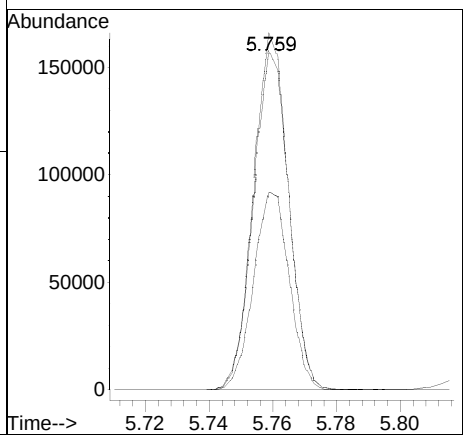


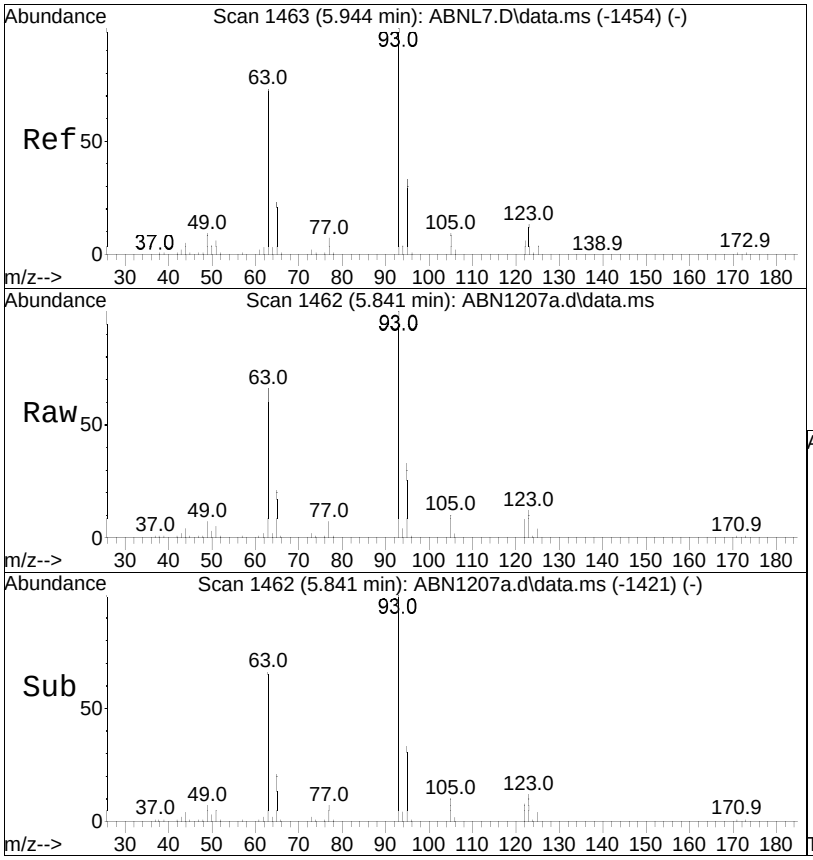


#23
2,4-Dimethylphenol
Concen: 48.82 ug/ml
RT: 5.759 min Scan# 1433
Delta R.T. -0.005 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion:107 Resp: 126224

Ion	Ratio	Lower	Upper
107	100		
121	56.9	39.7	59.5
122	96.2	66.8	100.2

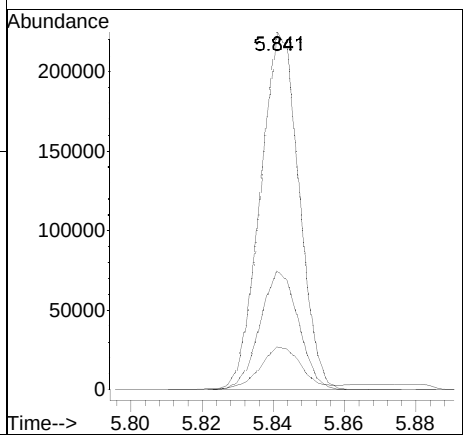


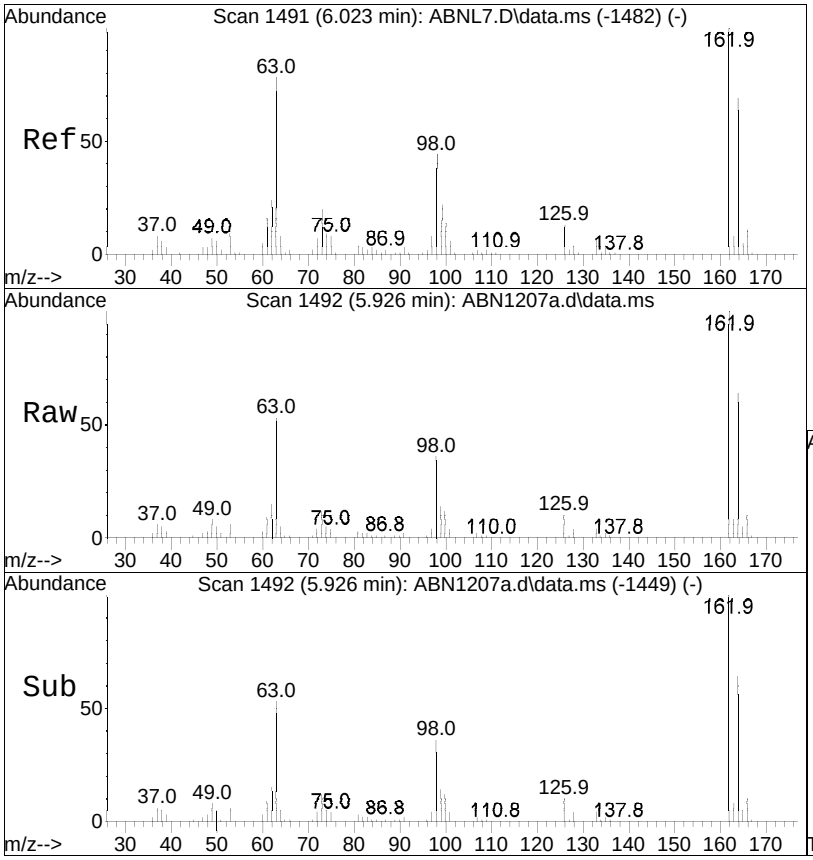


#24
Bis(2-chloroethoxy)methane
Concen: 50.69 ug/ml
RT: 5.841 min Scan# 1462
Delta R.T. -0.009 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion: 93 Resp: 168580

Ion	Ratio	Lower	Upper
93	100		
95	33.3	26.1	39.1
123	13.6	9.8	14.8

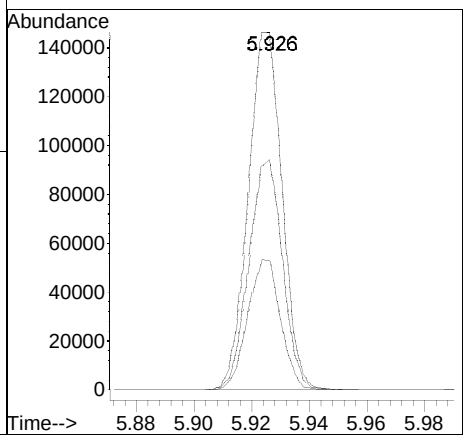


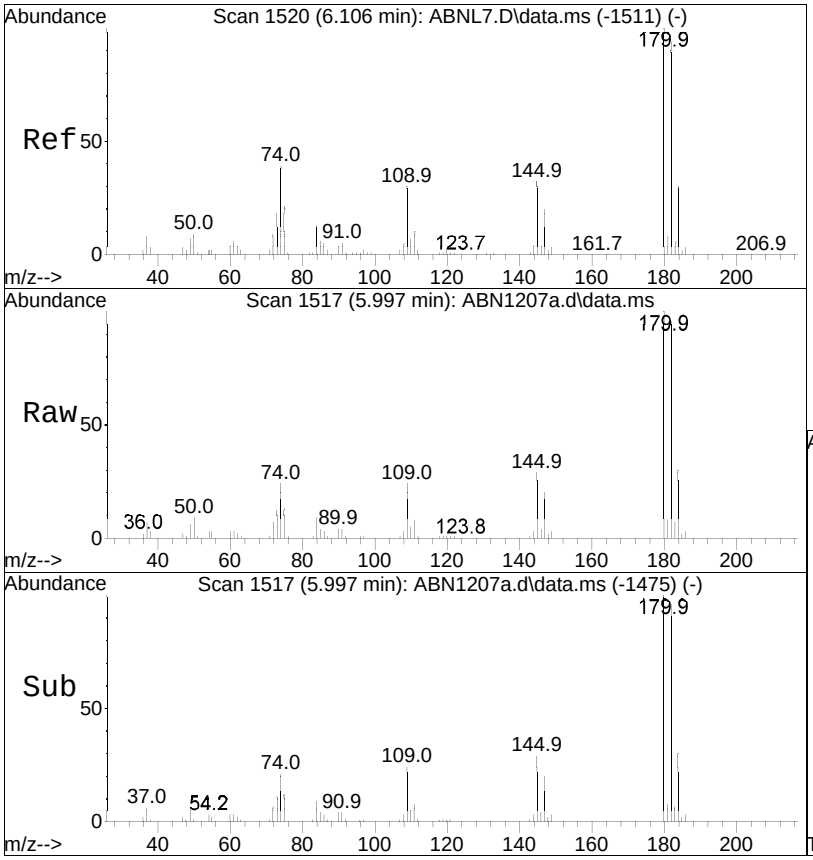


#25
2,4-Dichlorophenol
Concen: 55.78 ug/ml
RT: 5.926 min Scan# 1492
Delta R.T. -0.003 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion:162 Resp: 118227

Ion	Ratio	Lower	Upper
162	100		
164	64.2	50.4	75.6
98	35.5	31.6	47.4

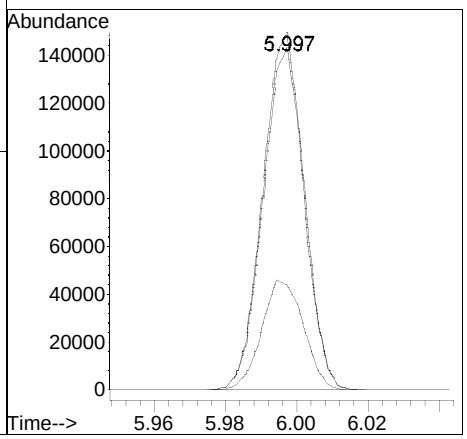


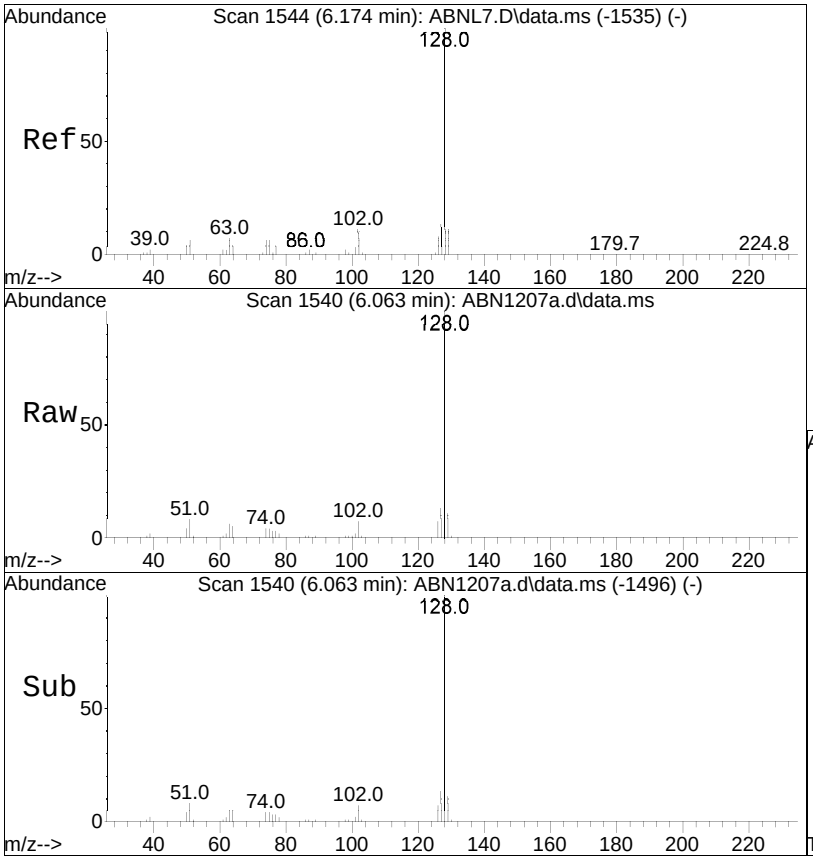


#26
1,2,4-Trichlorobenzene
Concen: 51.39 ug/ml
RT: 5.997 min Scan# 1517
Delta R.T. -0.006 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion:180 Resp: 119624

Ion	Ratio	Lower	Upper
180	100		
182	95.1	74.7	112.1
145	31.2	26.6	39.8

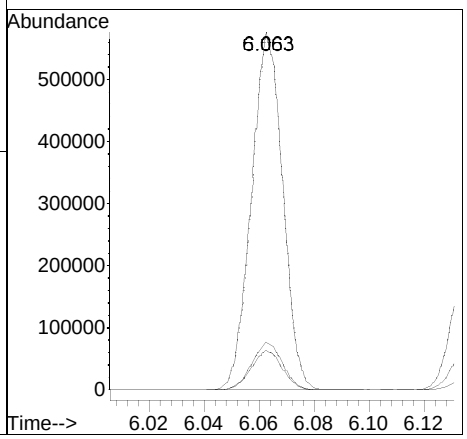


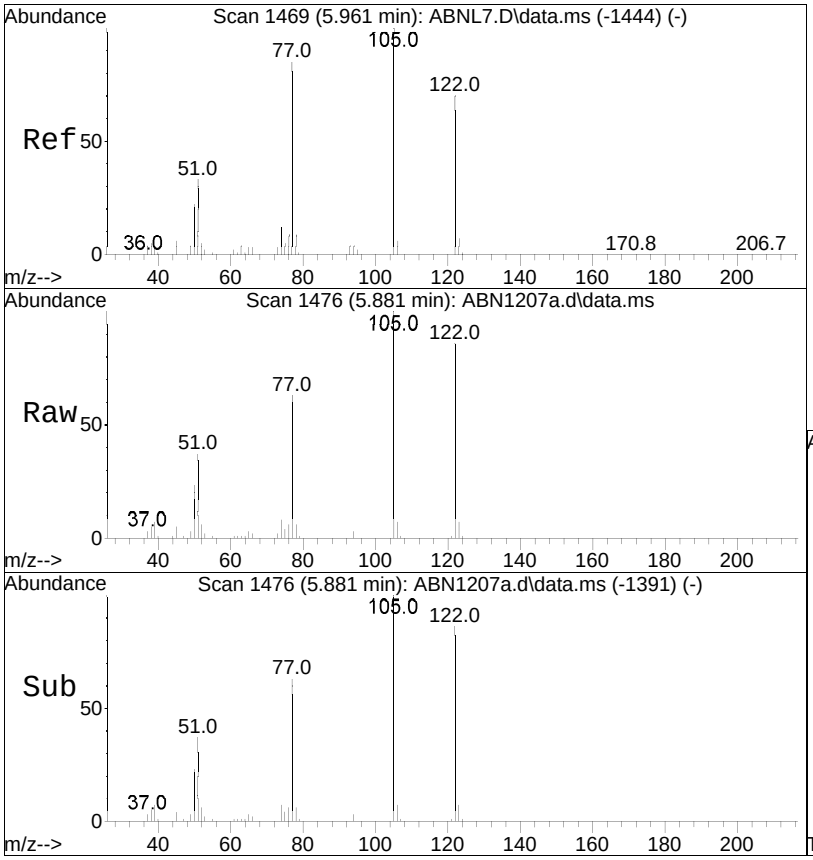


#35
Naphthalene
Concen: 54.53 ug/ml
RT: 6.063 min Scan# 1540
Delta R.T. 0.000 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion:128 Resp: 449468

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.7	13.1
127	13.2	10.7	16.1

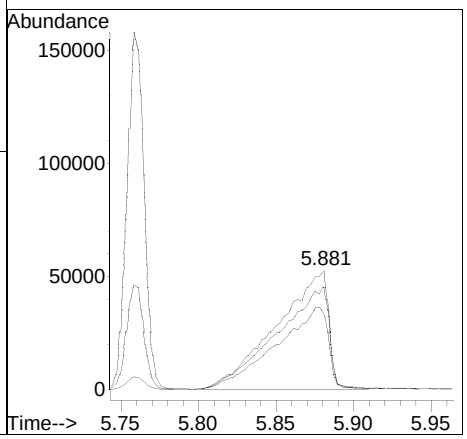


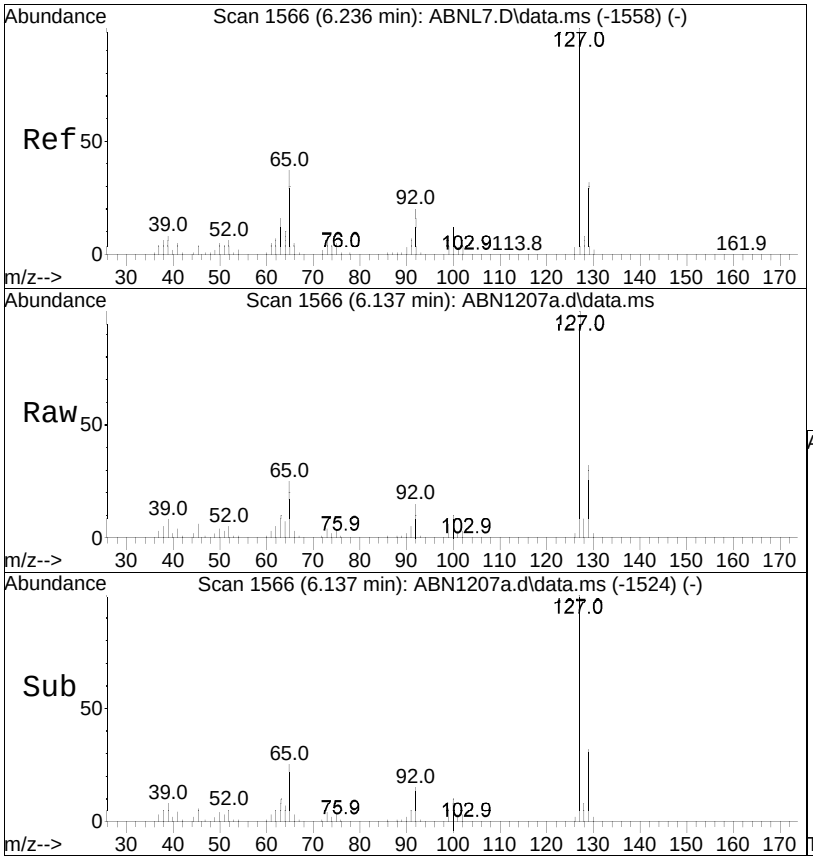


#36
Benzoic Acid
Concen: 59.21 ug/ml
RT: 5.881 min Scan# 1476
Delta R.T. -0.008 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion:105 Resp: 123395

Ion	Ratio	Lower	Upper
105	100		
122	87.3	61.8	92.6
77	69.6	62.2	93.4

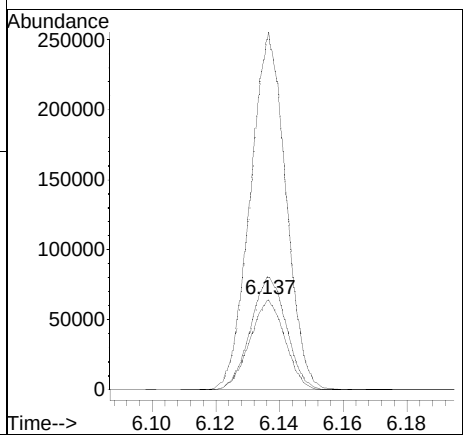


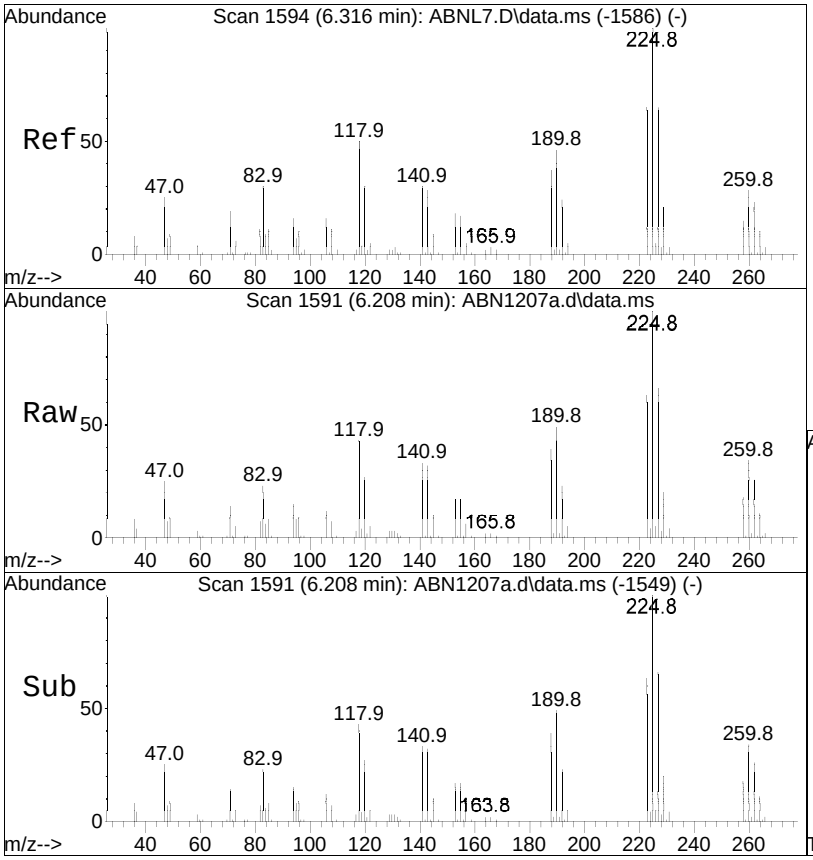


#37
4-Chloroaniline
Concen: 47.42 ug/ml
RT: 6.137 min Scan# 1566
Delta R.T. -0.005 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion: 65 Resp: 49194

Ion	Ratio	Lower	Upper
65	100		
127	400.5	233.2	349.8#
129	127.7	74.6	111.8#

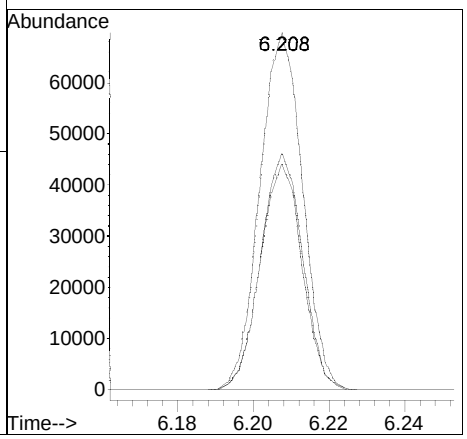


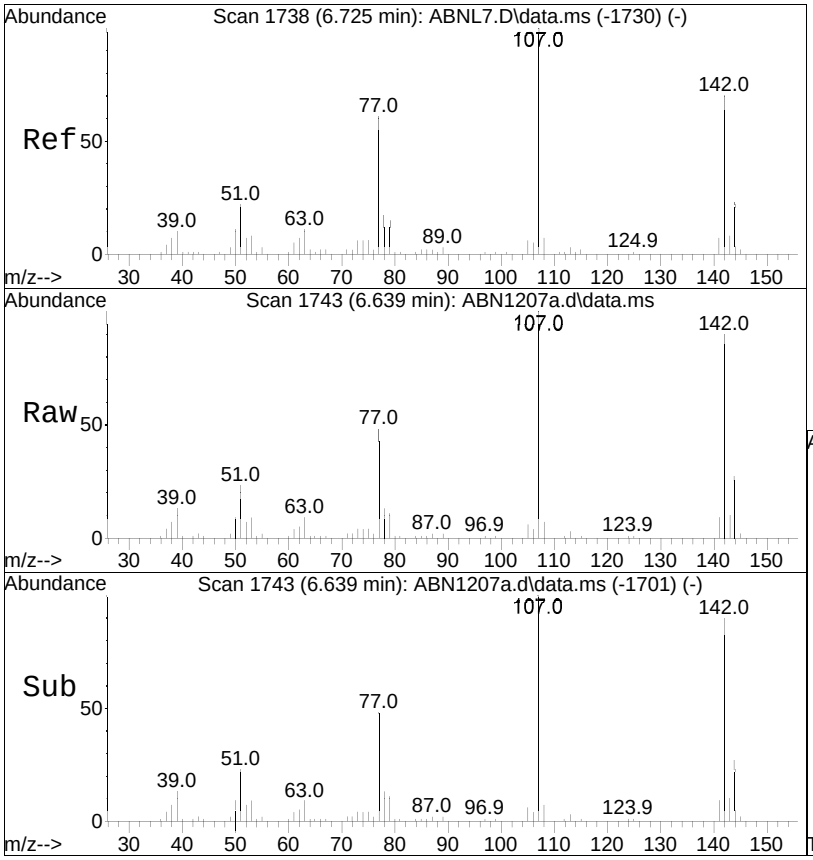


#38
Hexachlorobutadiene
Concen: 51.77 ug/ml
RT: 6.208 min Scan# 1591
Delta R.T. -0.005 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion:225 Resp: 54432

Ion	Ratio	Lower	Upper
225	100		
223	62.1	49.4	74.0
227	65.0	50.8	76.2

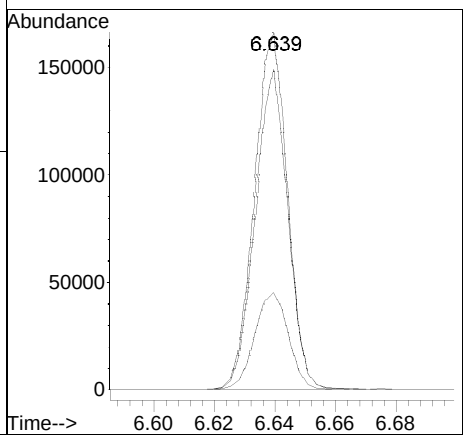


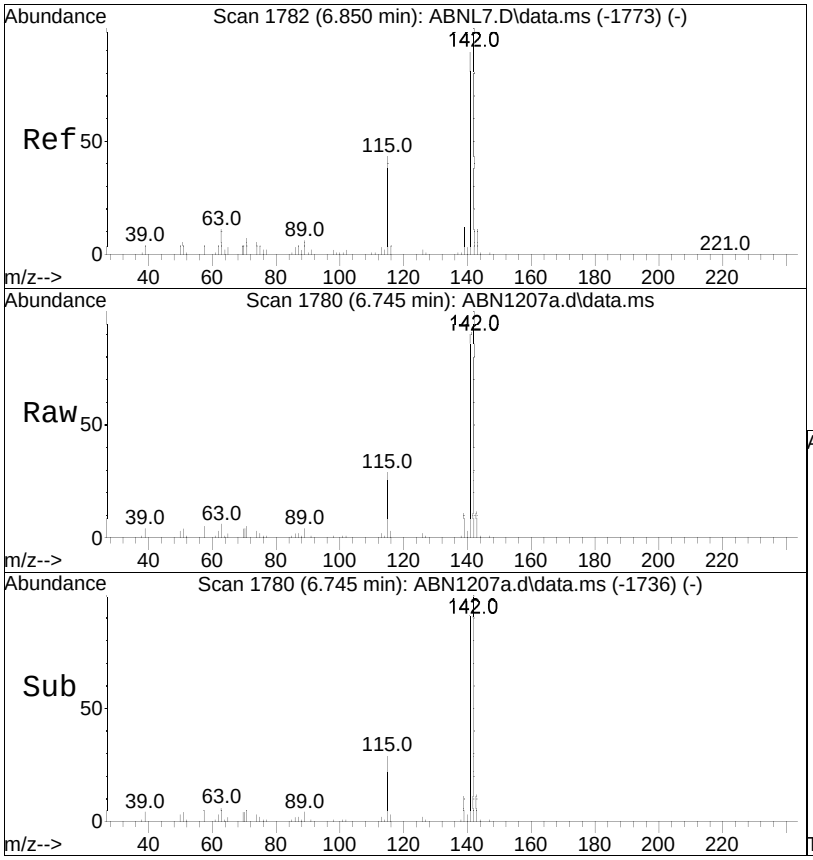


#39
p-Chloro-m-cresol
Concen: 55.17 ug/ml
RT: 6.639 min Scan# 1743
Delta R.T. -0.006 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion:107 Resp: 124646

Ion	Ratio	Lower	Upper
107	100		
144	27.8	19.6	29.4
142	88.3	62.2	93.4

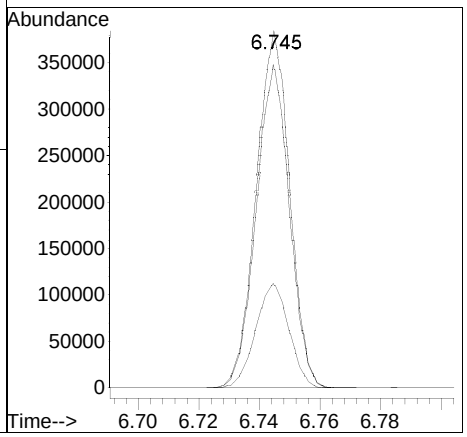


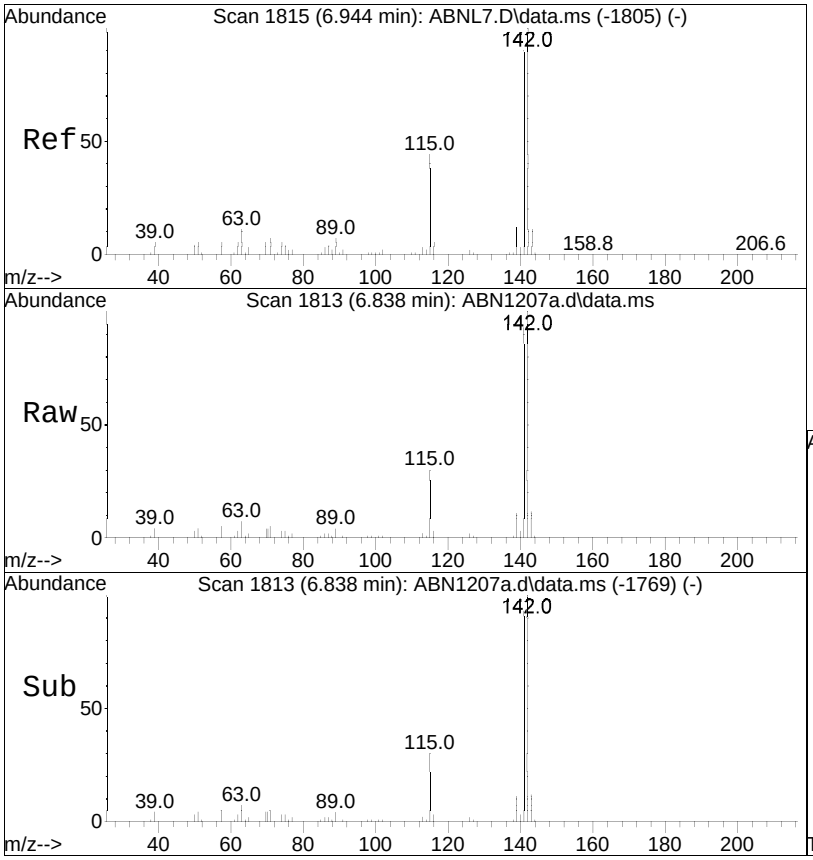


#40
2-Methylnaphthalene
Concen: 54.14 ug/ml
RT: 6.745 min Scan# 1780
Delta R.T. 0.000 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion:142 Resp: 294752

Ion	Ratio	Lower	Upper
142	100		
141	89.9	71.8	107.8
115	29.3	29.1	43.7

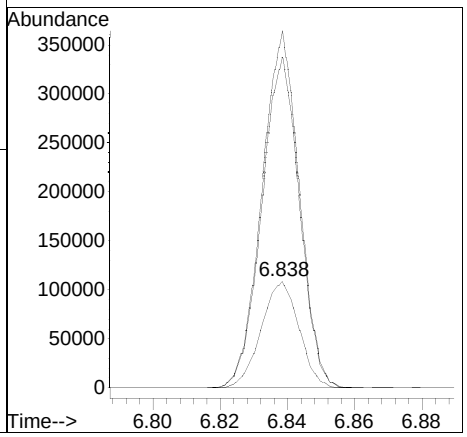


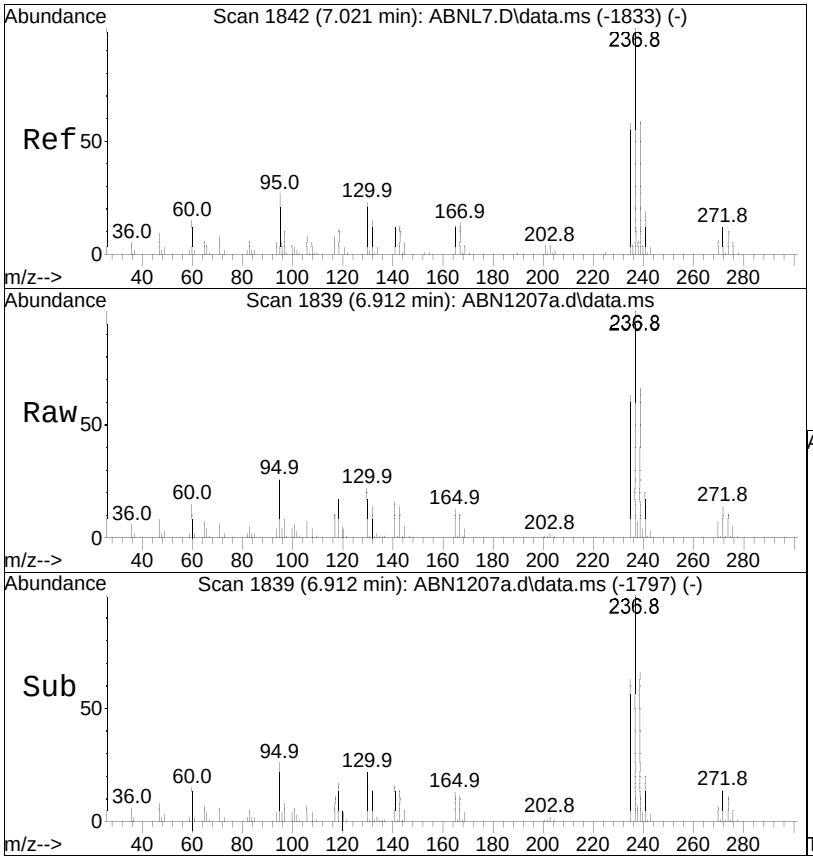


#41
1-Methylnaphthalene
Concen: 49.05 ug/ml
RT: 6.838 min Scan# 1813
Delta R.T. 0.000 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion:115 Resp: 84729

Ion	Ratio	Lower	Upper
115	100		
141	309.4	196.6	294.8#
142	331.5	209.2	313.8#

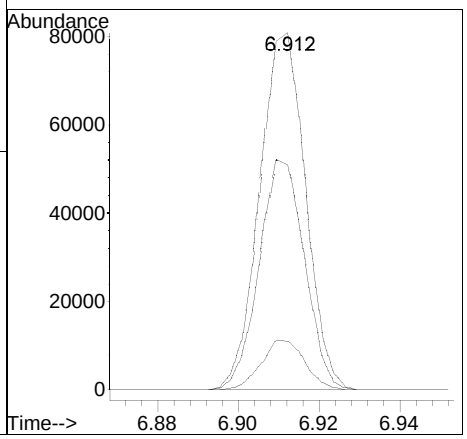


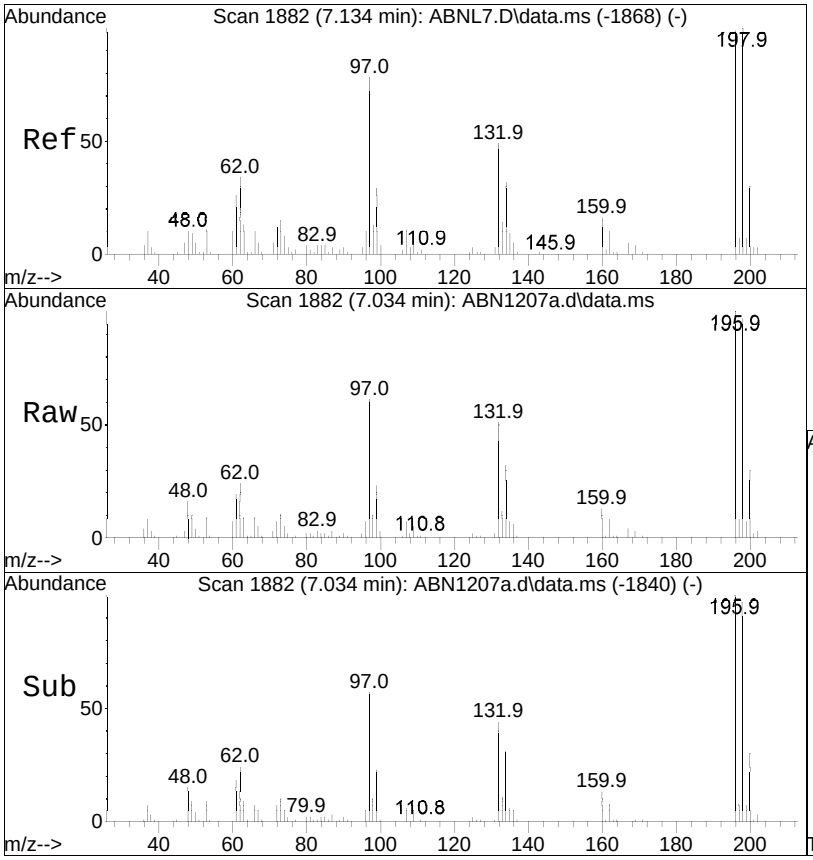


#42
Hexachlorocyclopentadiene
Concen: 49.62 ug/ml
RT: 6.912 min Scan# 1839
Delta R.T. -0.006 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion:237 Resp: 63645

Ion	Ratio	Lower	Upper
237	100		
235	63.8	47.8	71.6
272	13.4	10.4	15.6

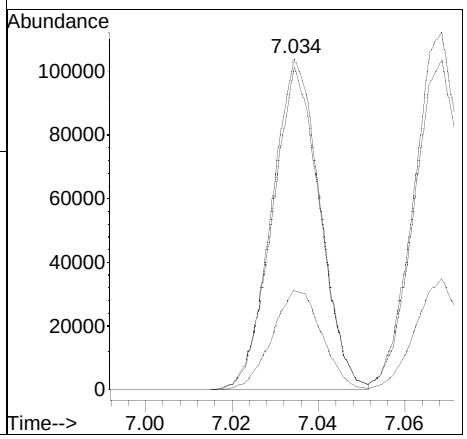


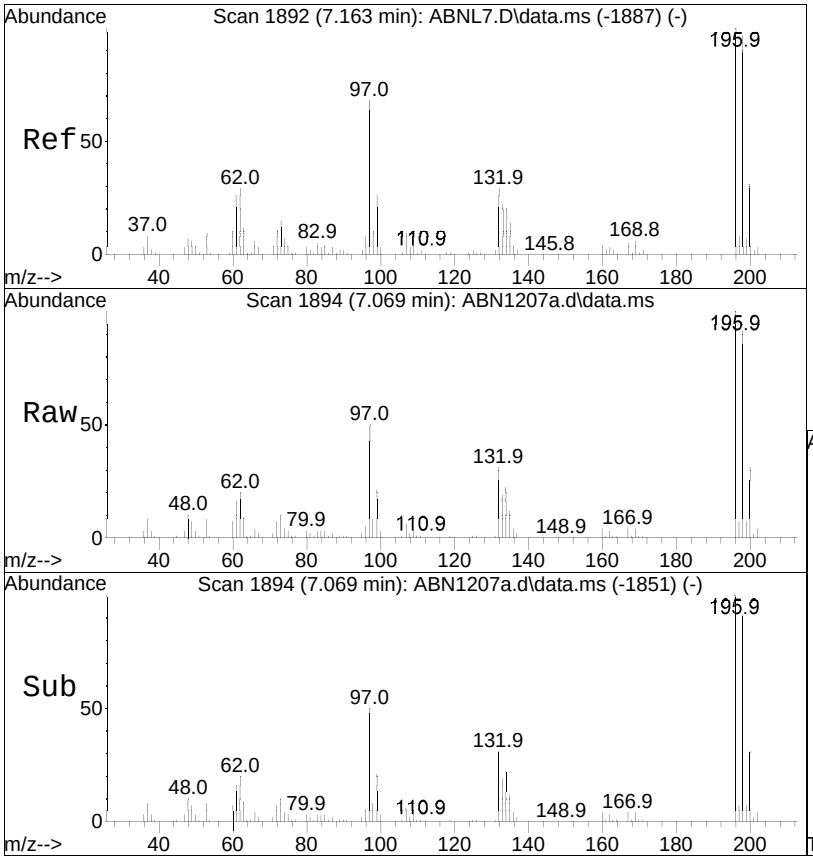


#43
2,4,6-Trichlorophenol
Concen: 58.19 ug/ml
RT: 7.034 min Scan# 1882
Delta R.T. -0.006 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion:196 Resp: 80877

Ion	Ratio	Lower	Upper
196	100		
198	95.3	81.5	122.3
200	30.8	26.2	39.2

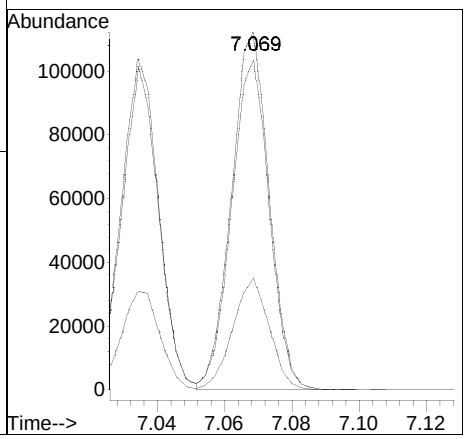


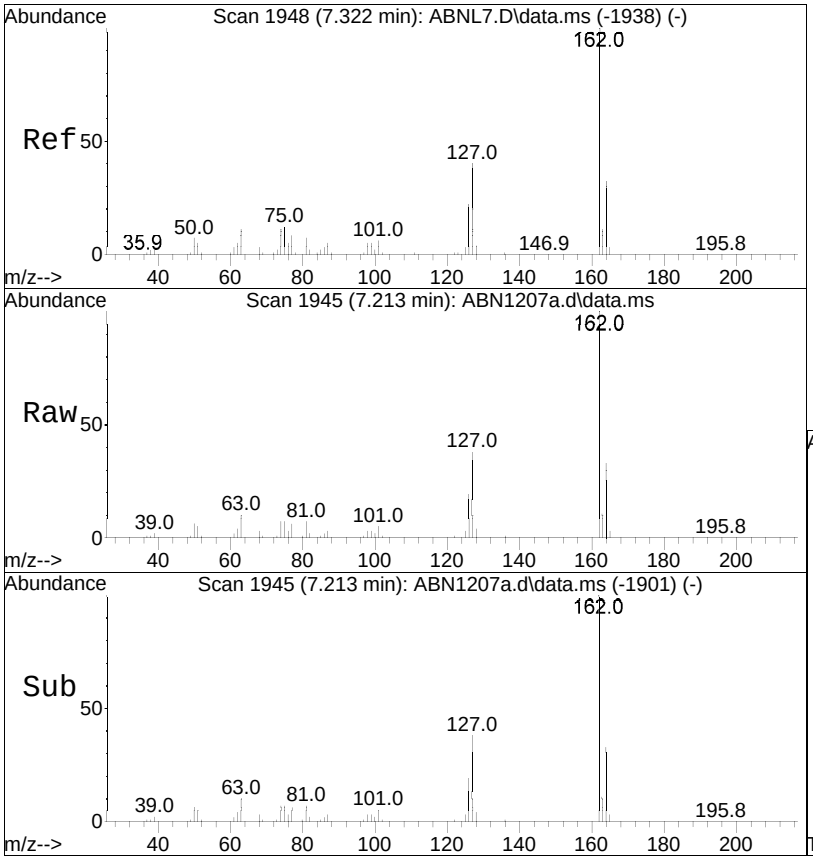


#44
2,4,5-Trichlorophenol
Concen: 59.84 ug/ml
RT: 7.069 min Scan# 1894
Delta R.T. -0.002 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion:196 Resp: 87537

Ion	Ratio	Lower	Upper
196	100		
200	30.2	25.5	38.3
198	92.0	79.2	118.8

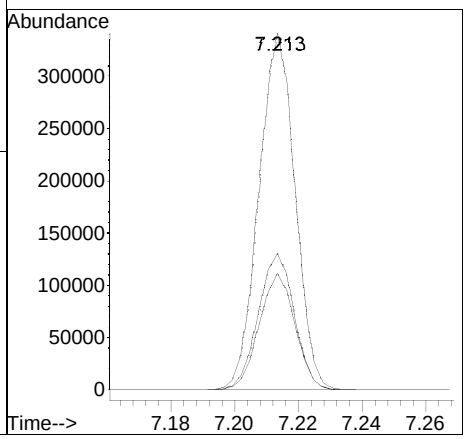


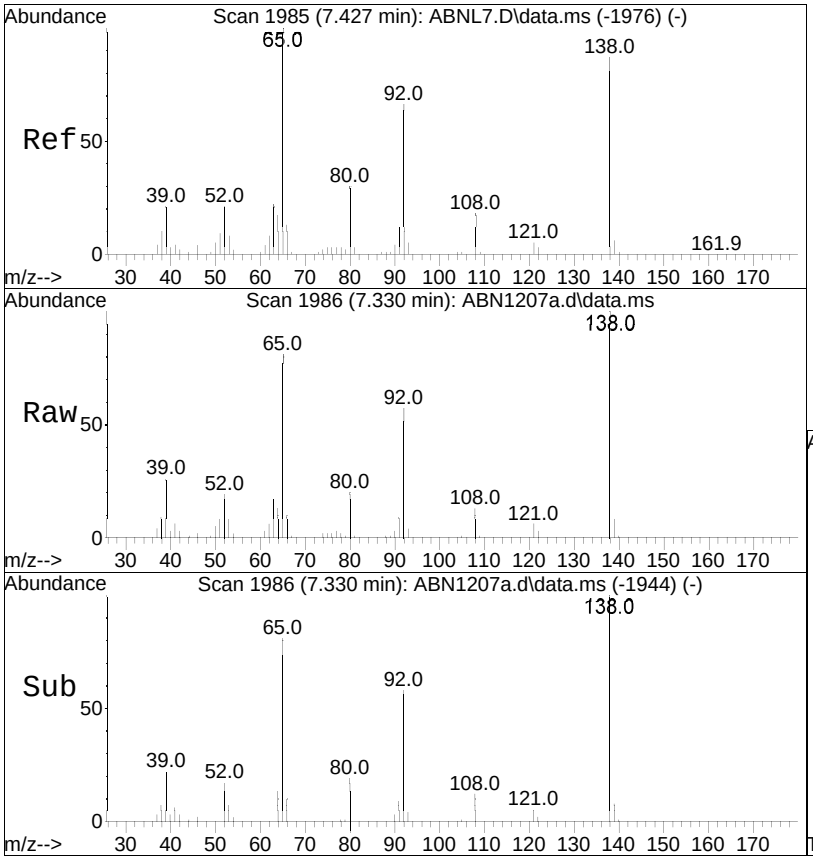


#46
2-Chloronaphthalene
Concen: 56.55 ug/ml
RT: 7.213 min Scan# 1945
Delta R.T. 0.000 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion:162 Resp: 266435

Ion	Ratio	Lower	Upper
162	100		
127	38.1	33.6	50.4
164	32.4	25.8	38.8

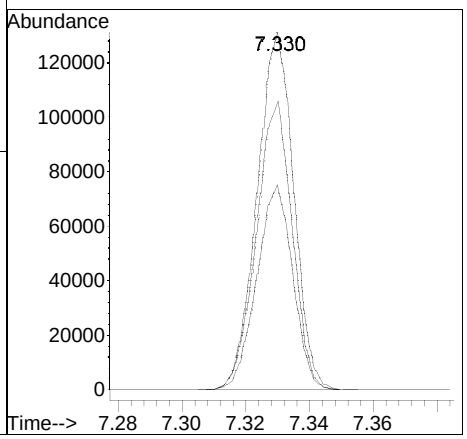


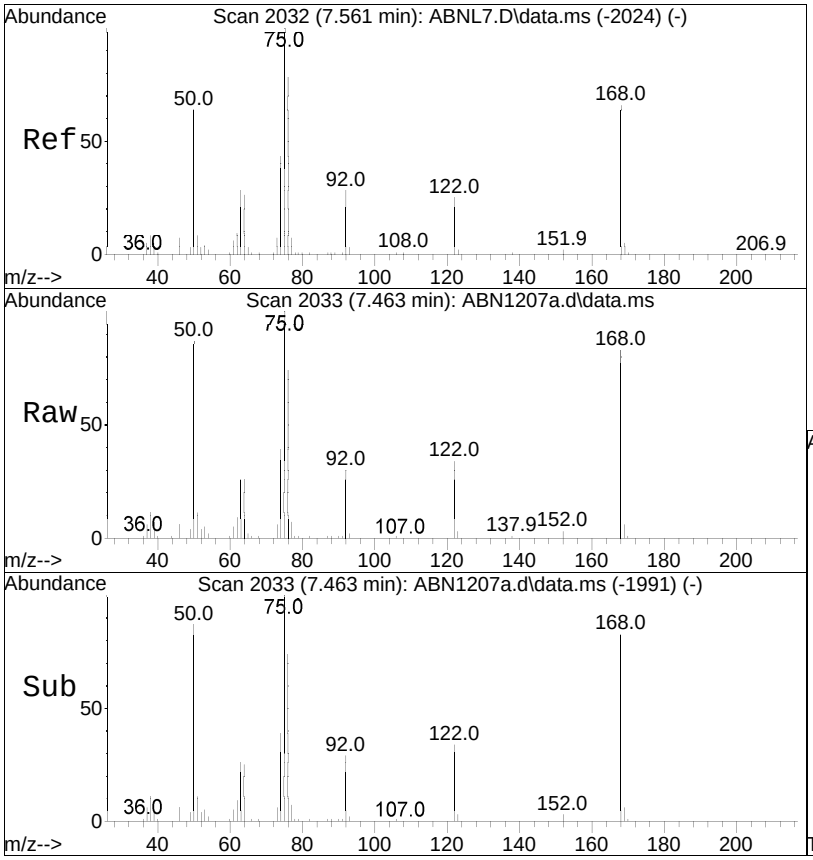


#47
2-Nitroaniline
Concen: 61.43 ug/ml
RT: 7.330 min Scan# 1986
Delta R.T. -0.006 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion:138 Resp: 103557

Ion	Ratio	Lower	Upper
138	100		
92	56.5	54.2	81.2
65	79.1	82.8	124.2#

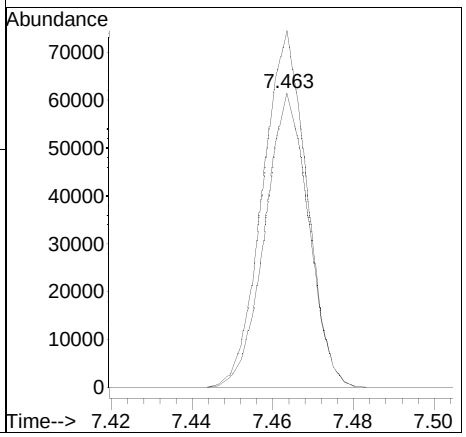


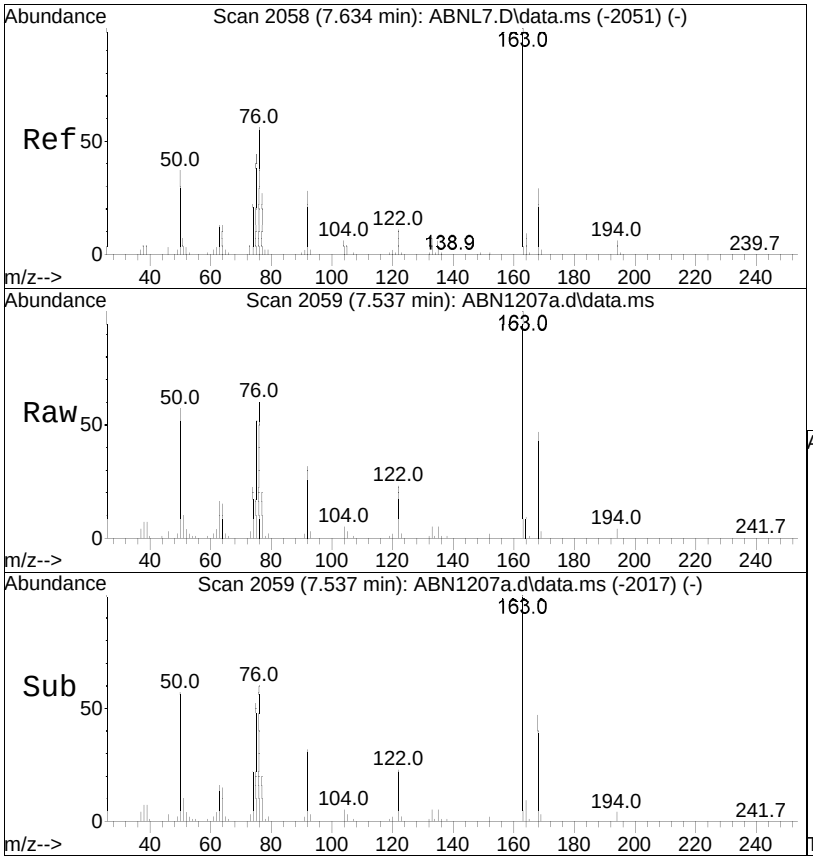


#48
1,4-Dinitrobenzene
Concen: 60.03 ug/ml
RT: 7.463 min Scan# 2033
Delta R.T. -0.006 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion:168 Resp: 46134

Ion	Ratio	Lower	Upper
168	100		
75	122.6	120.1	180.1

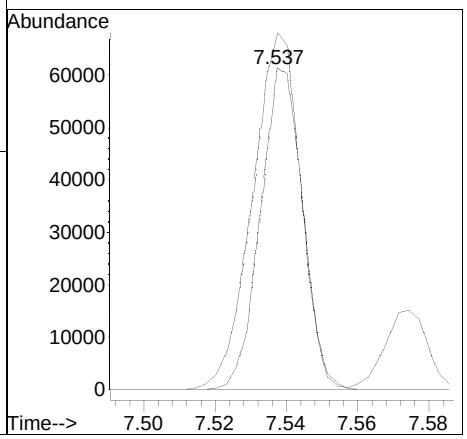


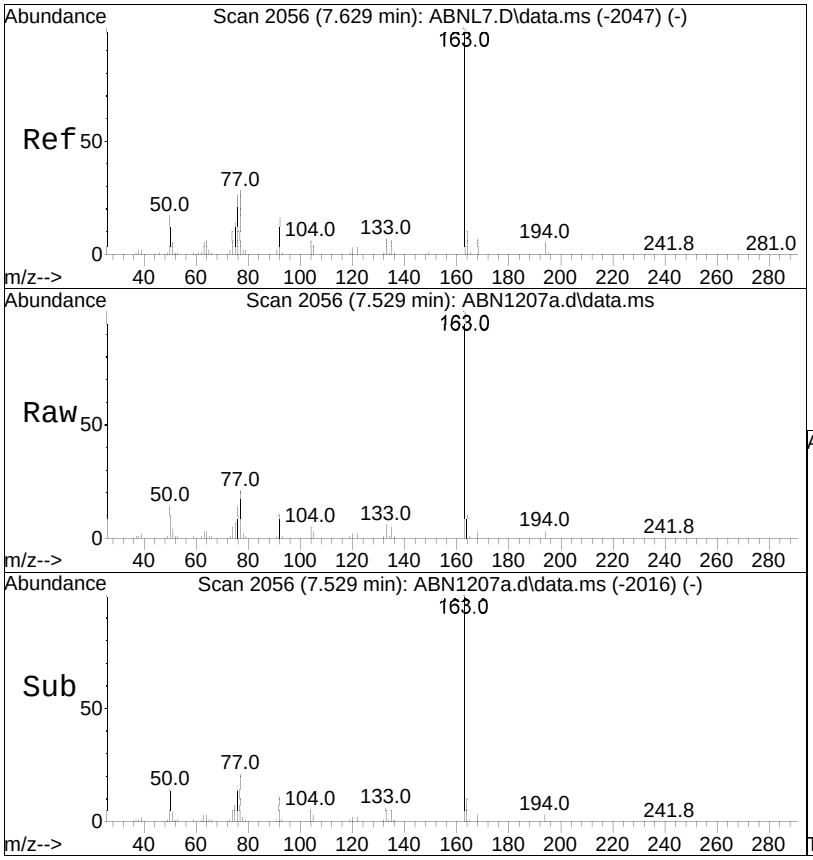


#49
1,3-Dinitrobenzene
Concen: 59.84 ug/ml
RT: 7.537 min Scan# 2059
Delta R.T. -0.006 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion:168 Resp: 50426

Ion	Ratio	Lower	Upper
168	100		
75	126.4	123.2	184.8

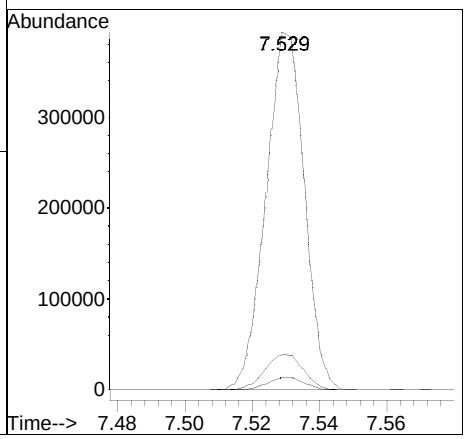


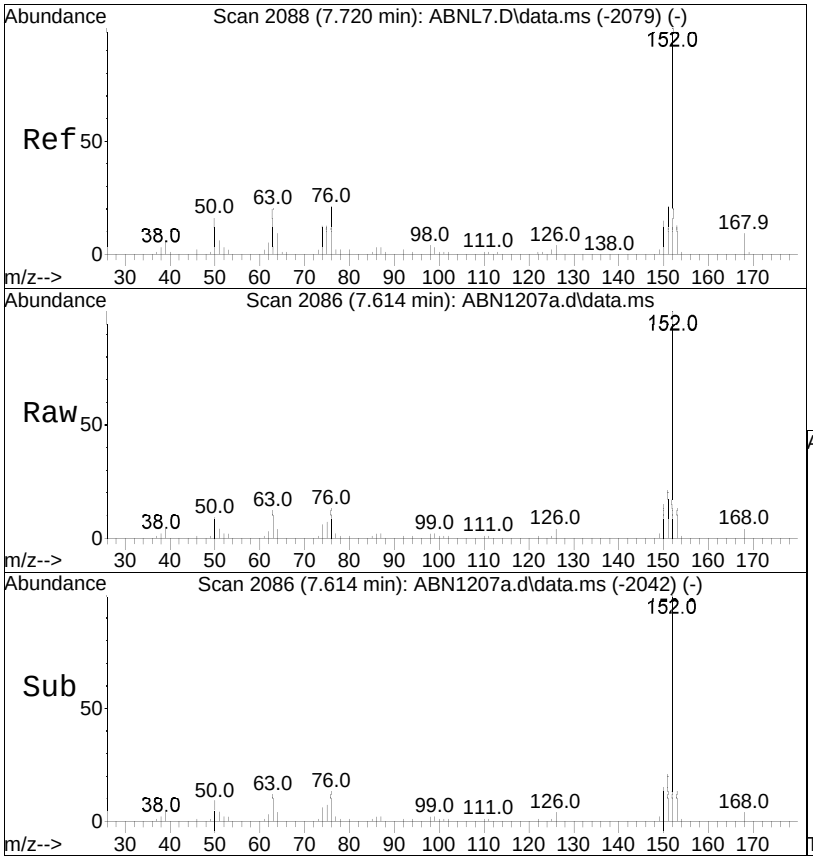


#50
Dimethyl phthalate
Concen: 57.86 ug/ml
RT: 7.529 min Scan# 2056
Delta R.T. -0.011 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion:163 Resp: 308461

Ion	Ratio	Lower	Upper
163	100		
194	3.4	2.6	4.0
164	10.1	8.2	12.4

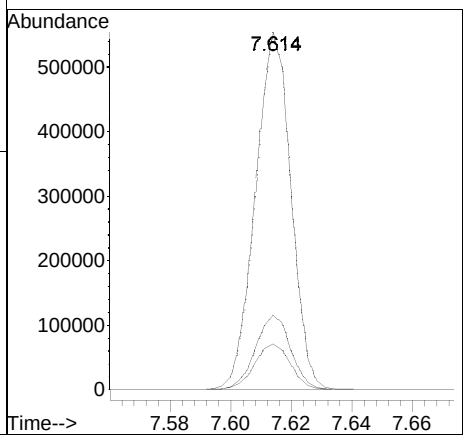


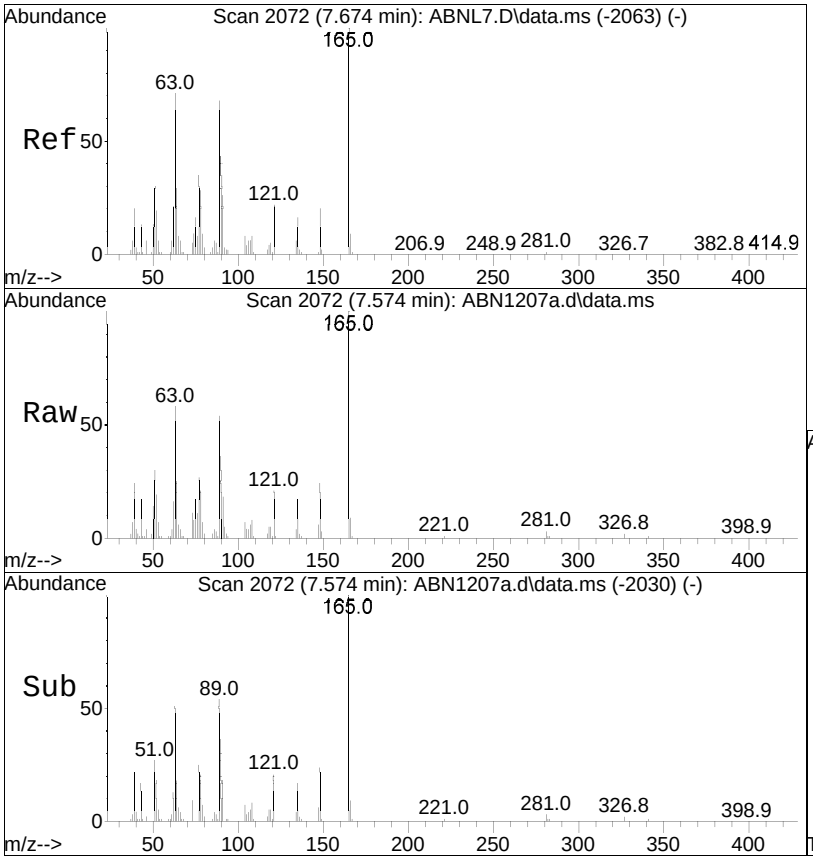


#51
Acenaphthylene
Concen: 57.49 ug/ml
RT: 7.614 min Scan# 2086
Delta R.T. 0.000 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion:152 Resp: 446372

Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.4	24.6
153	13.0	11.0	16.6

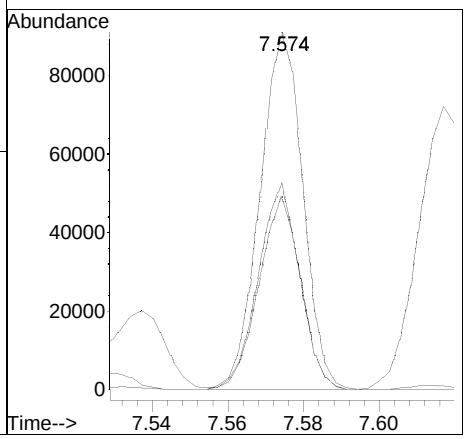


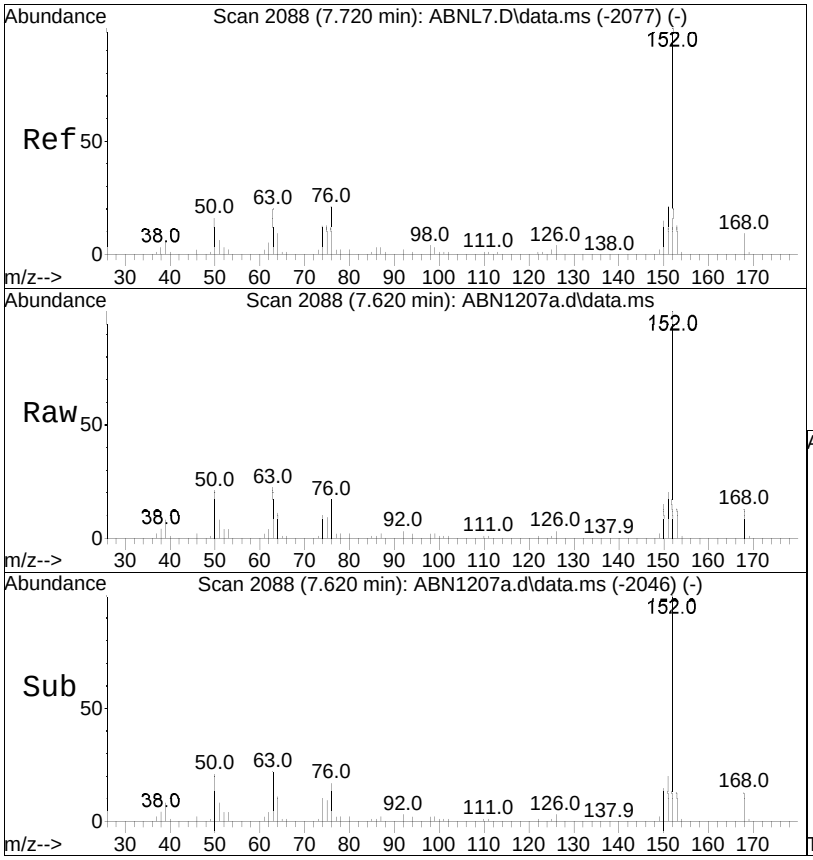


#52
2,6-Dinitrotoluene
Concen: 61.20 ug/ml
RT: 7.574 min Scan# 2072
Delta R.T. -0.006 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion:165 Resp: 71694

Ion	Ratio	Lower	Upper
165	100		
89	52.7	50.4	75.6
63	55.6	56.9	85.3#

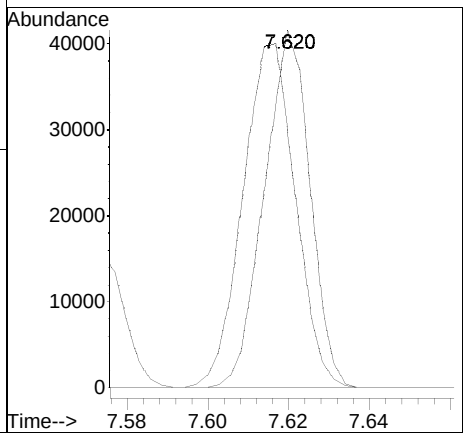


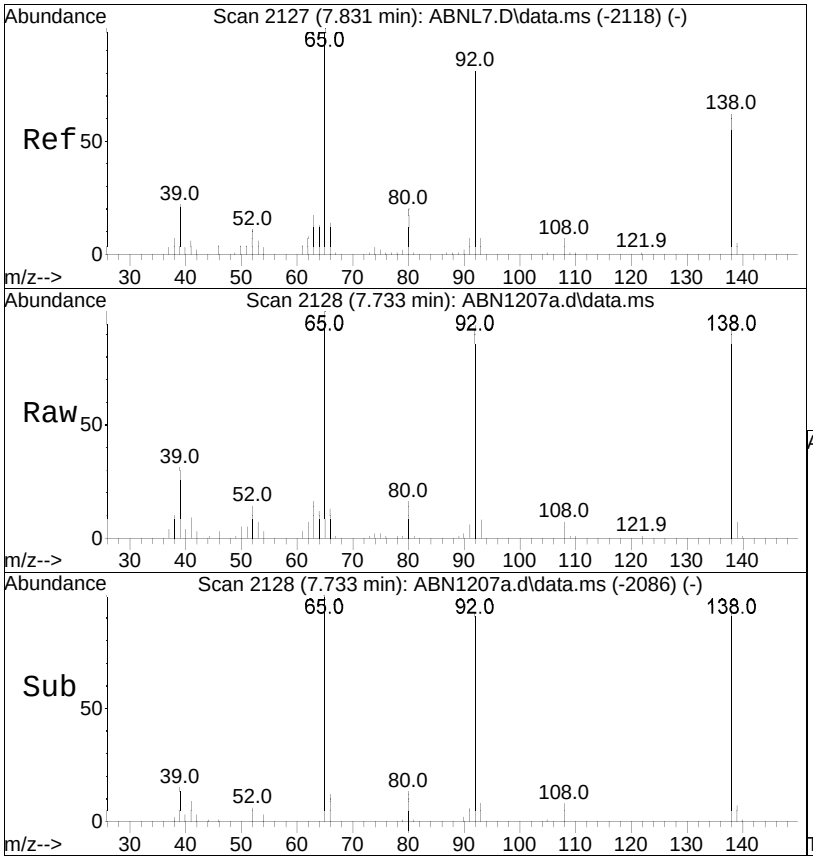


#53
1,2-Dinitrobenzene
Concen: 59.12 ug/ml
RT: 7.620 min Scan# 2088
Delta R.T. -0.006 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion:168 Resp: 32542

Ion	Ratio	Lower	Upper
168	100		
75	110.7	105.0	157.6

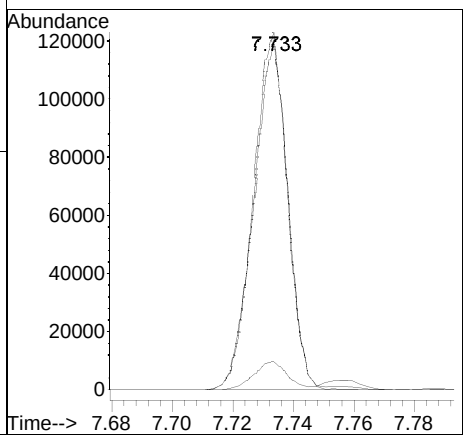


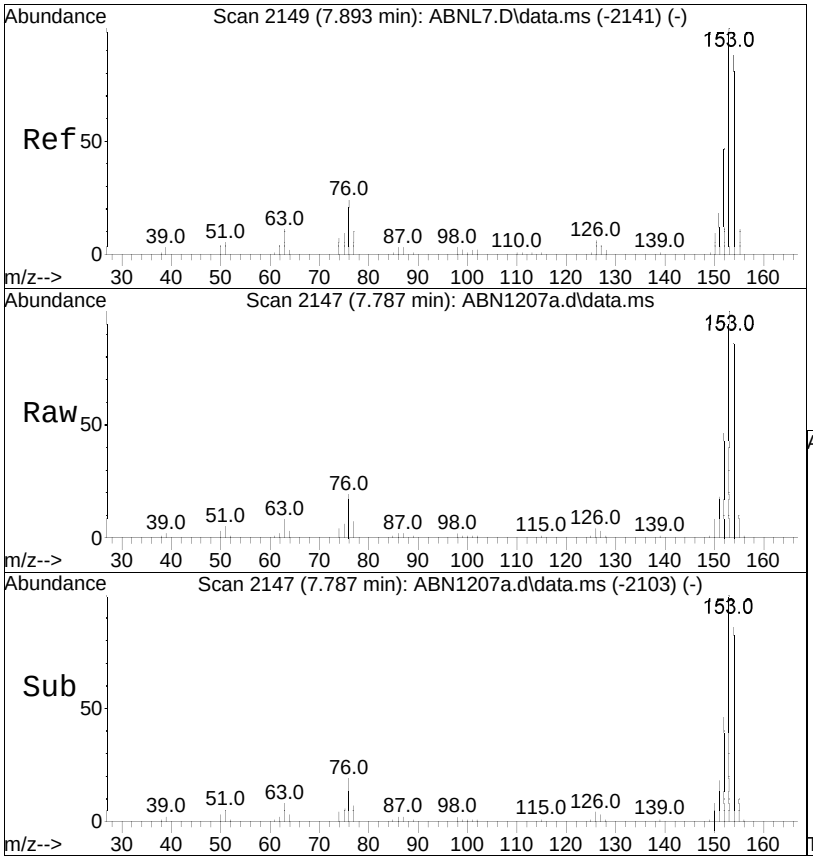


#63
3-Nitroaniline
Concen: 59.35 ug/ml
RT: 7.733 min Scan# 2128
Delta R.T. -0.006 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion:138 Resp: 92090

Ion	Ratio	Lower	Upper
138	100		
92	103.3	95.4	143.2
108	8.2	8.6	12.8#

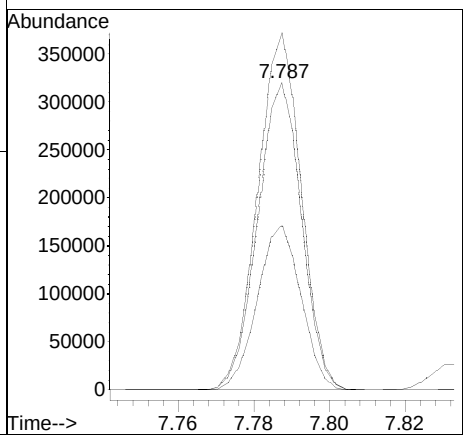


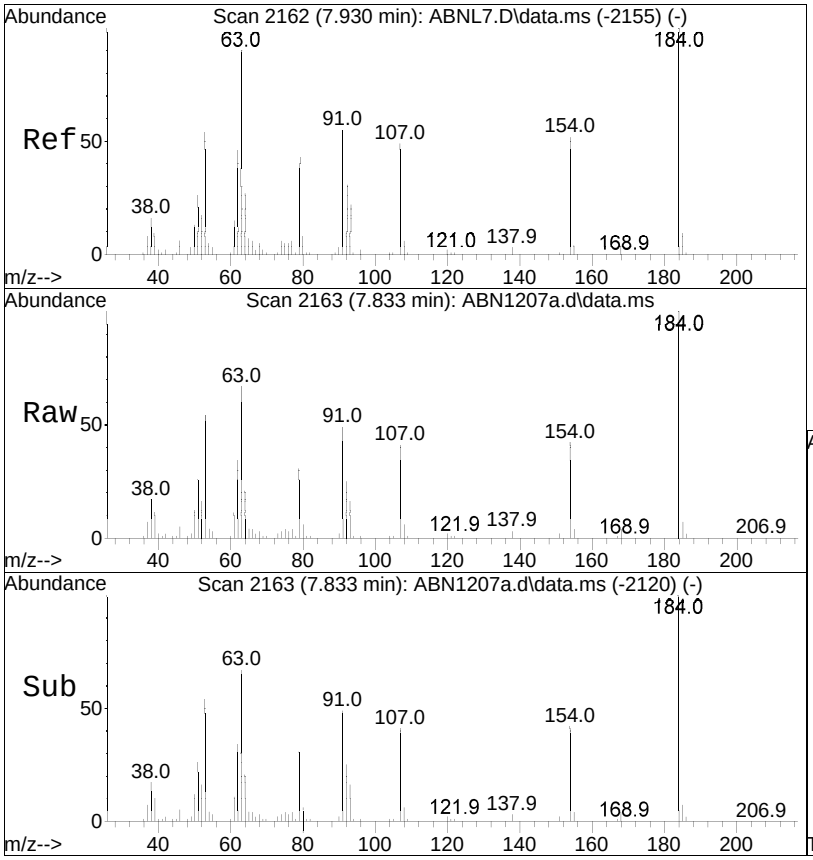


#64
Acenaphthene
Concen: 52.47 ug/ml
RT: 7.787 min Scan# 2147
Delta R.T. 0.000 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion:154 Resp: 255537

Ion	Ratio	Lower	Upper
154	100		
153	115.6	91.3	136.9
152	53.8	41.0	61.4

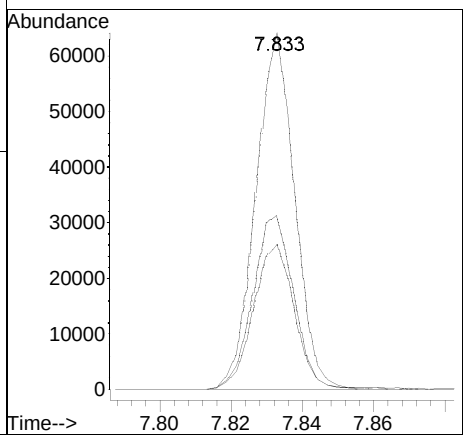


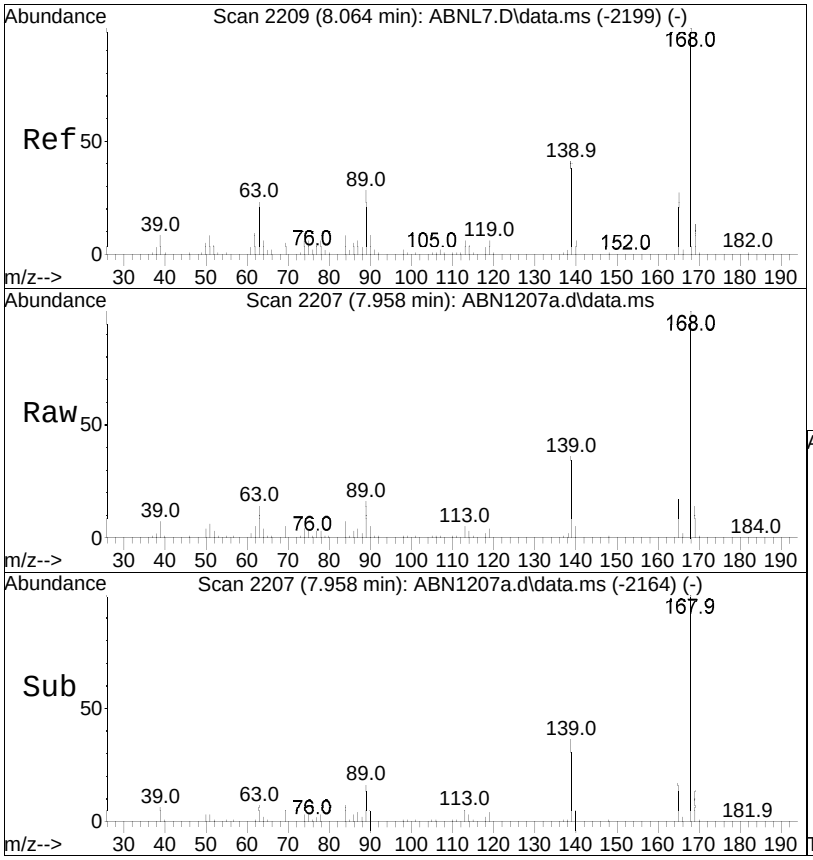


#65
2,4-Dinitrophenol
Concen: 55.88 ug/ml
RT: 7.833 min Scan# 2163
Delta R.T. -0.003 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion:184 Resp: 48355

Ion	Ratio	Lower	Upper
184	100		
107	42.8	41.8	62.6
91	51.3	46.1	69.1

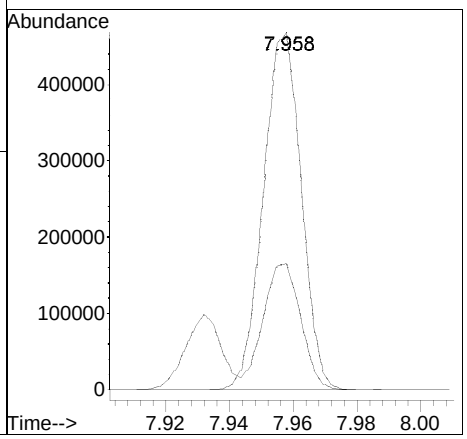


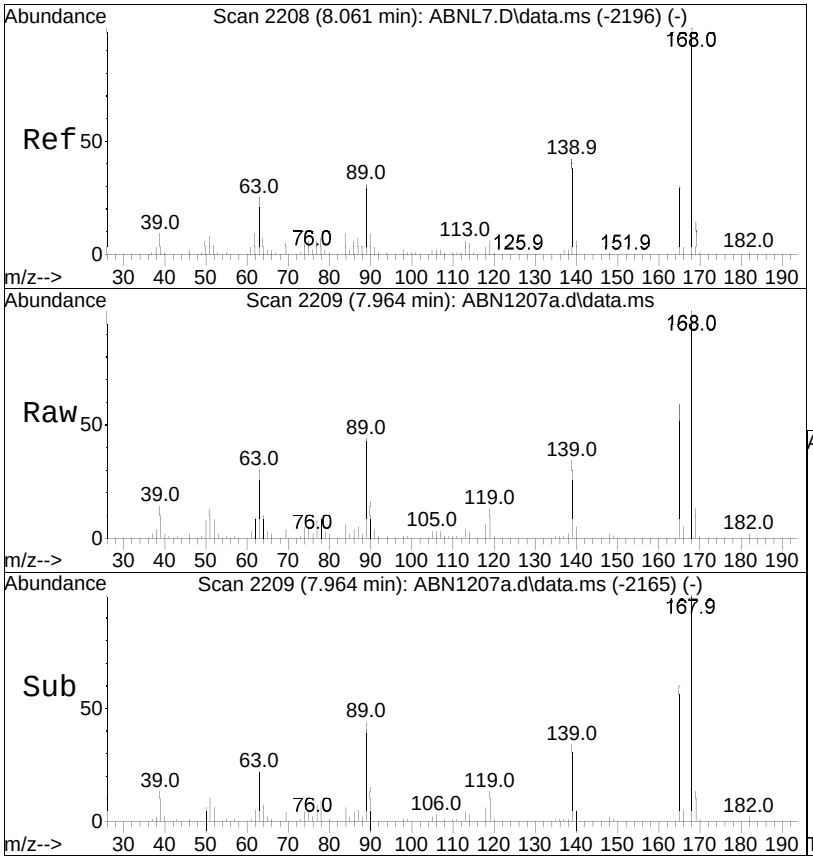


#66
Dibenzofuran
Concen: 53.98 ug/ml
RT: 7.958 min Scan# 2207
Delta R.T. -0.003 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion:168 Resp: 383063

Ion	Ratio	Lower	Upper
168	100		
139	35.0	33.2	49.8

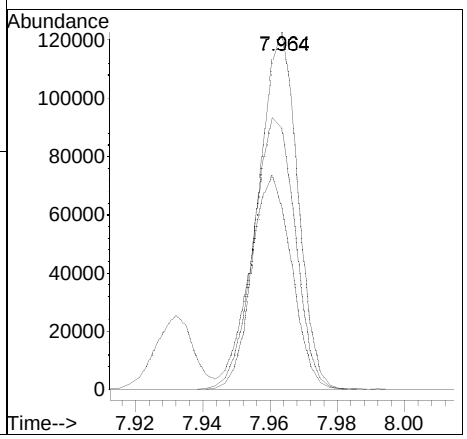


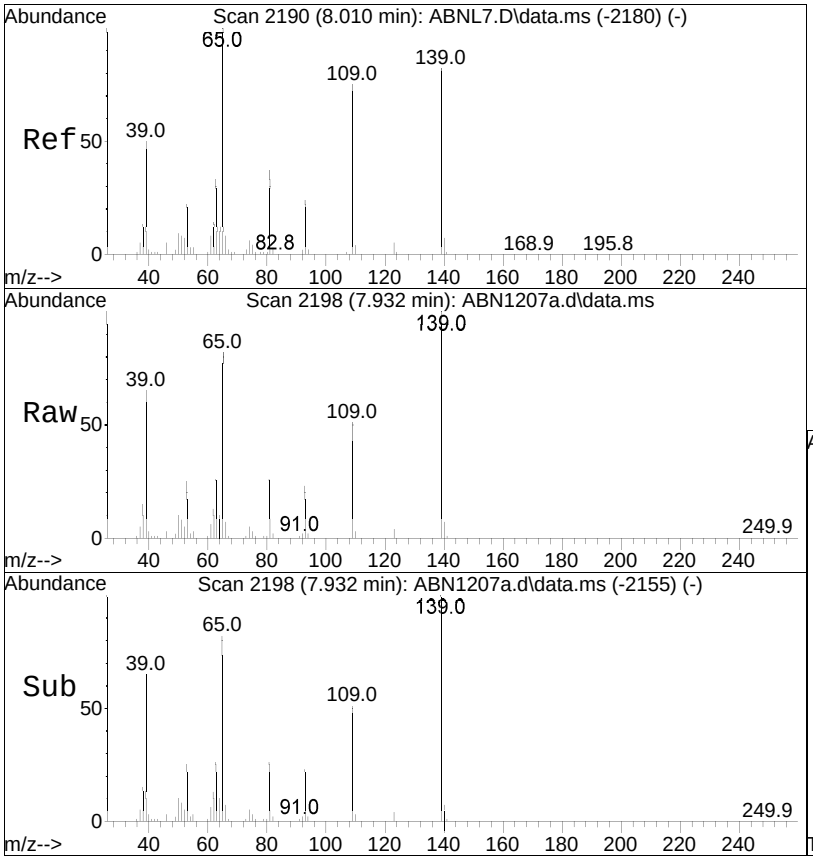


#67
2,4-Dinitrotoluene
Concen: 59.19 ug/ml
RT: 7.964 min Scan# 2209
Delta R.T. -0.000 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion:165 Resp: 97881

Ion	Ratio	Lower	Upper
165	100		
89	81.6	75.7	113.5
63	65.6	62.6	94.0

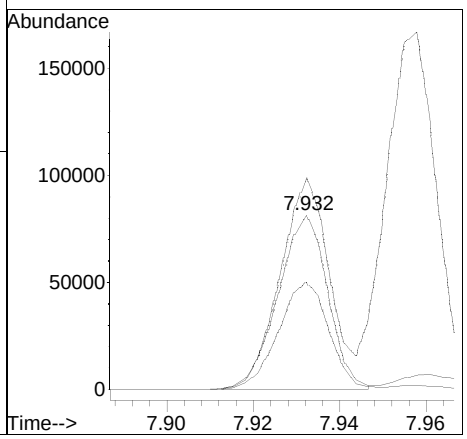


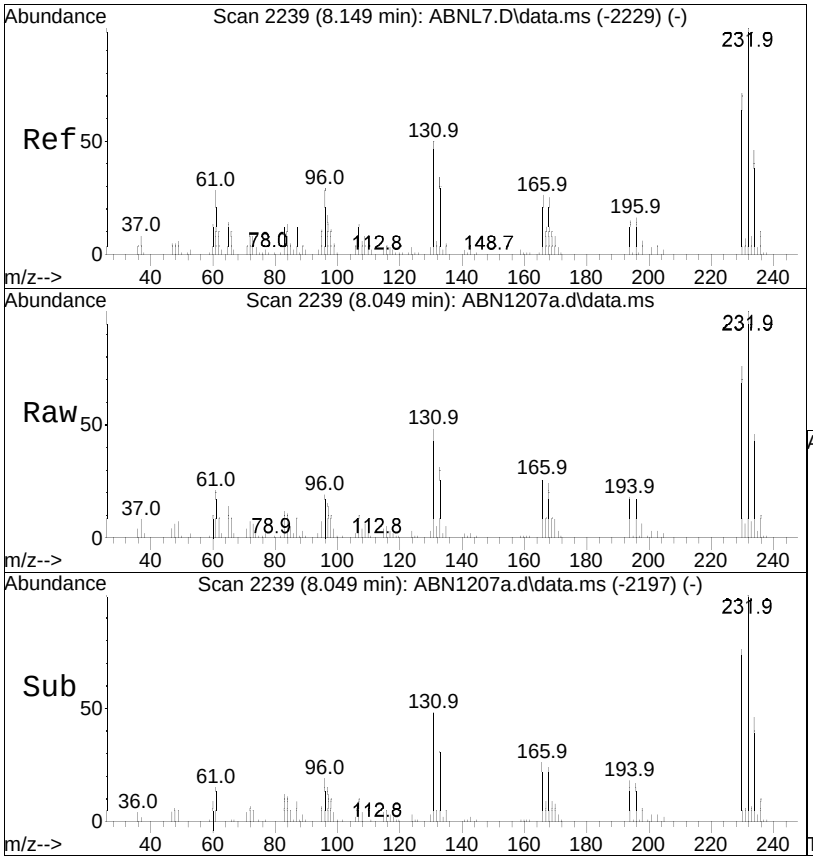


#68
4-Nitrophenol
Concen: 47.99 ug/ml
RT: 7.932 min Scan# 2198
Delta R.T. -0.003 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion: 65 Resp: 64789

Ion	Ratio	Lower	Upper
65	100		
109	62.6	55.4	83.2
139	121.6	72.9	109.3#

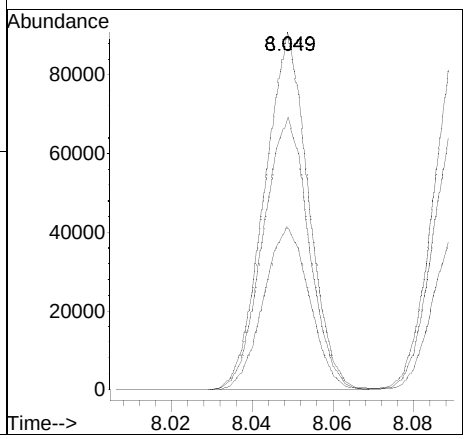


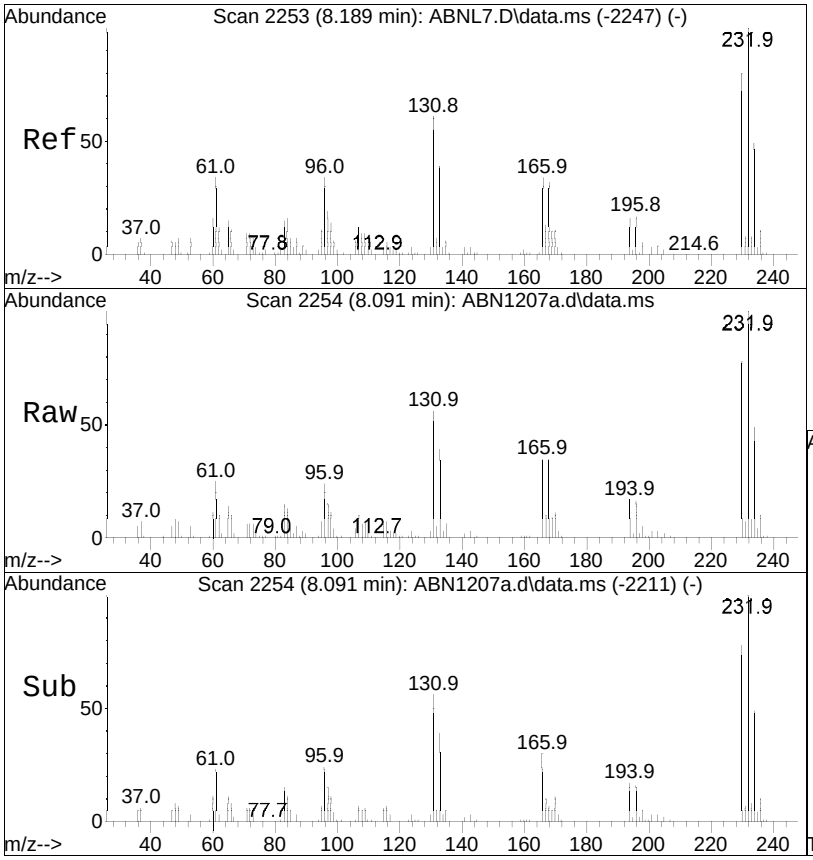


#69
2,3,5,6-Tetrachlorophenol
Concen: 56.35 ug/ml
RT: 8.049 min Scan# 2239
Delta R.T. -0.006 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion:232 Resp: 69048

Ion	Ratio	Lower	Upper
232	100		
230	79.3	65.0	97.6
234	47.5	37.8	56.8

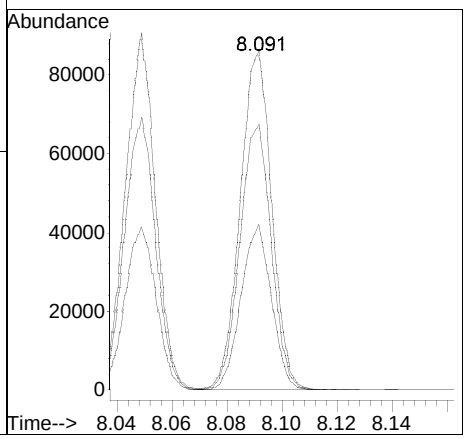


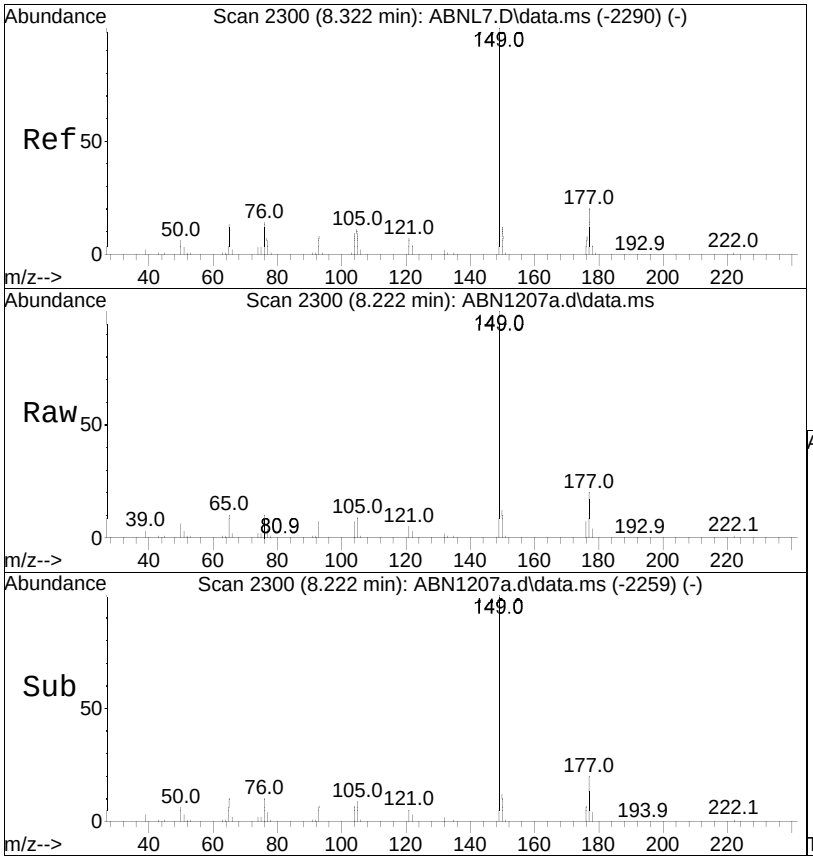


#70
2,3,4,6-Tetrachlorophenol
Concen: 55.41 ug/ml
RT: 8.091 min Scan# 2254
Delta R.T. -0.003 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion:232 Resp: 68645

Ion	Ratio	Lower	Upper
232	100		
230	77.8	63.7	95.5
234	47.1	38.4	57.6

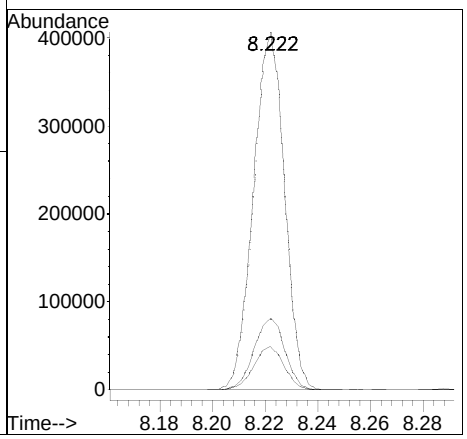


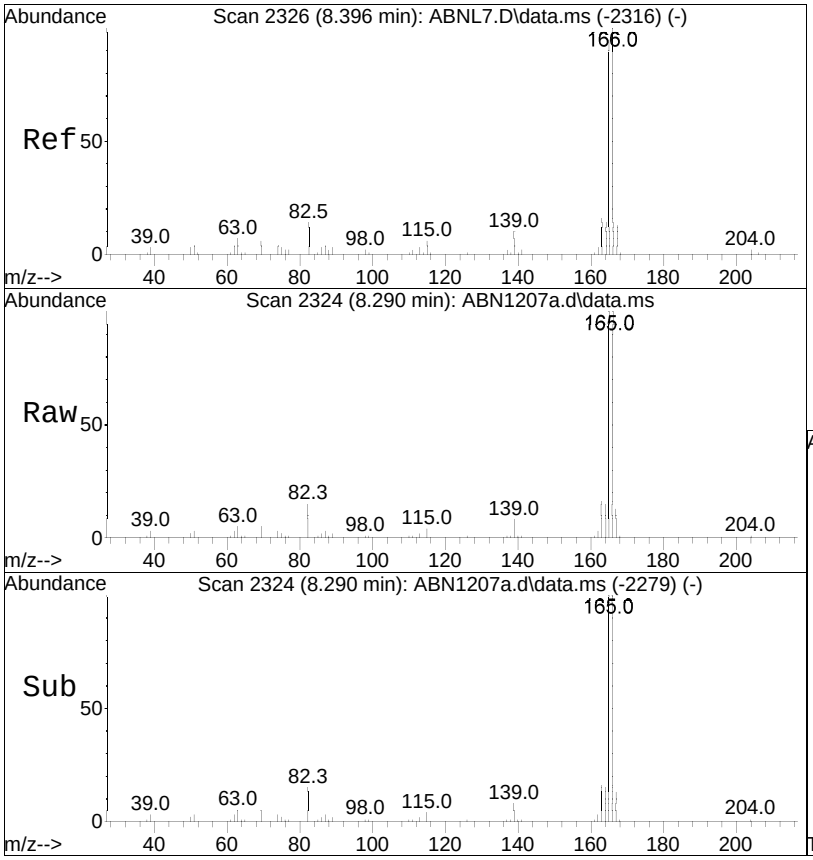


#71
Diethyl phthalate
Concen: 54.23 ug/ml
RT: 8.222 min Scan# 2300
Delta R.T. -0.009 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion:149 Resp: 328633

Ion	Ratio	Lower	Upper
149	100		
177	20.0	15.5	23.3
150	12.0	9.5	14.3

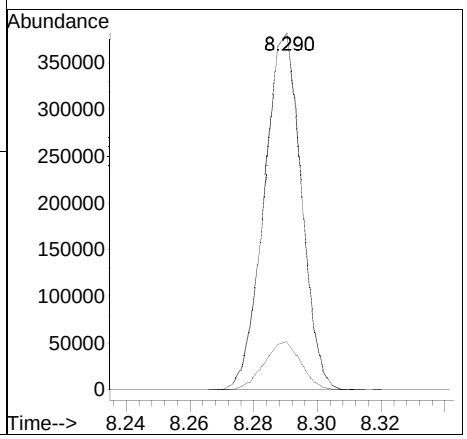


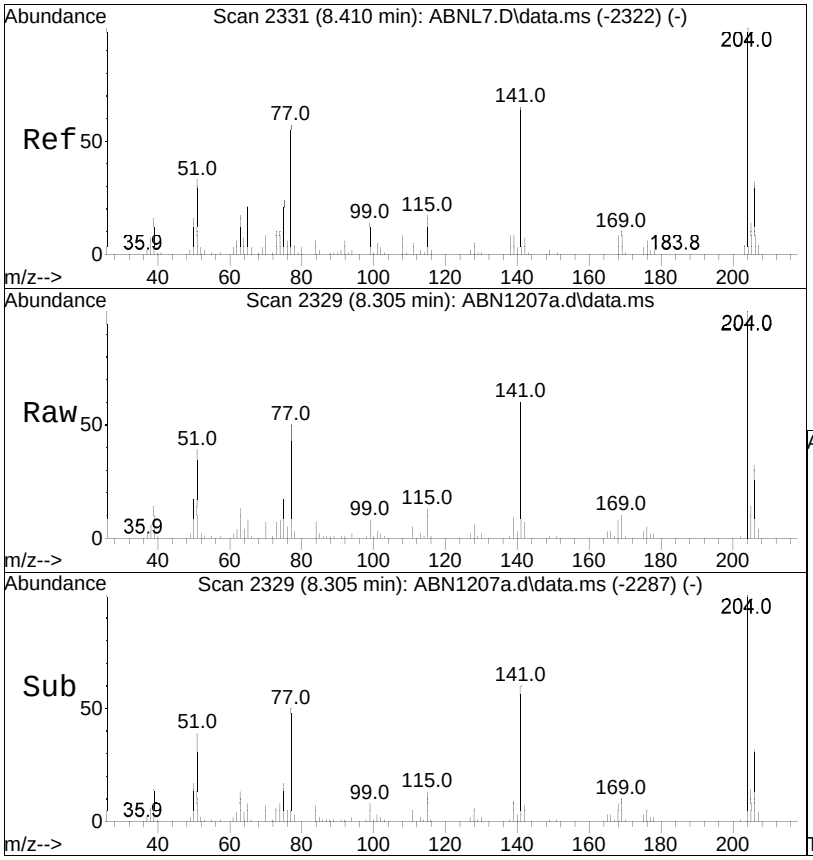


#72
Fluorene
Concen: 54.39 ug/ml
RT: 8.290 min Scan# 2324
Delta R.T. 0.003 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion:166 Resp: 310353

Ion	Ratio	Lower	Upper
166	100		
165	99.5	79.3	118.9
167	13.6	10.6	16.0

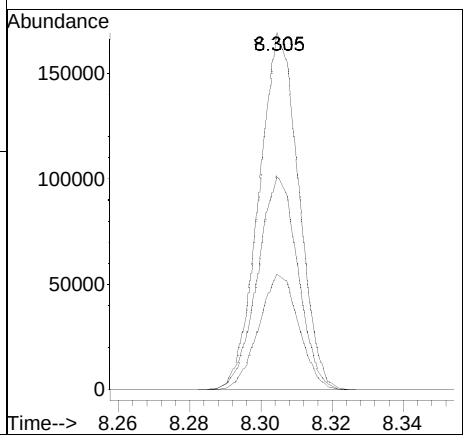


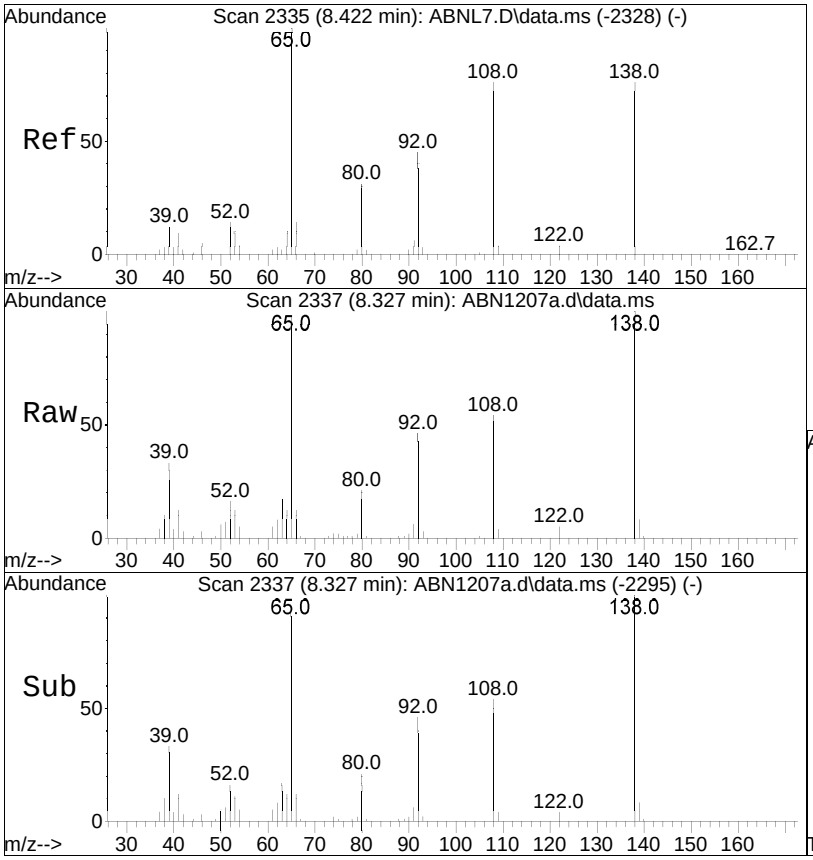


#73
4-Chlorophenyl phenyl ether
Concen: 52.82 ug/ml
RT: 8.305 min Scan# 2329
Delta R.T. -0.005 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion:204 Resp: 130237

Ion	Ratio	Lower	Upper
204	100		
206	32.9	26.2	39.4
141	60.8	57.2	85.8

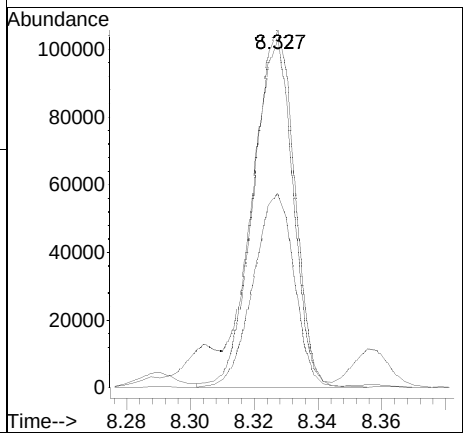


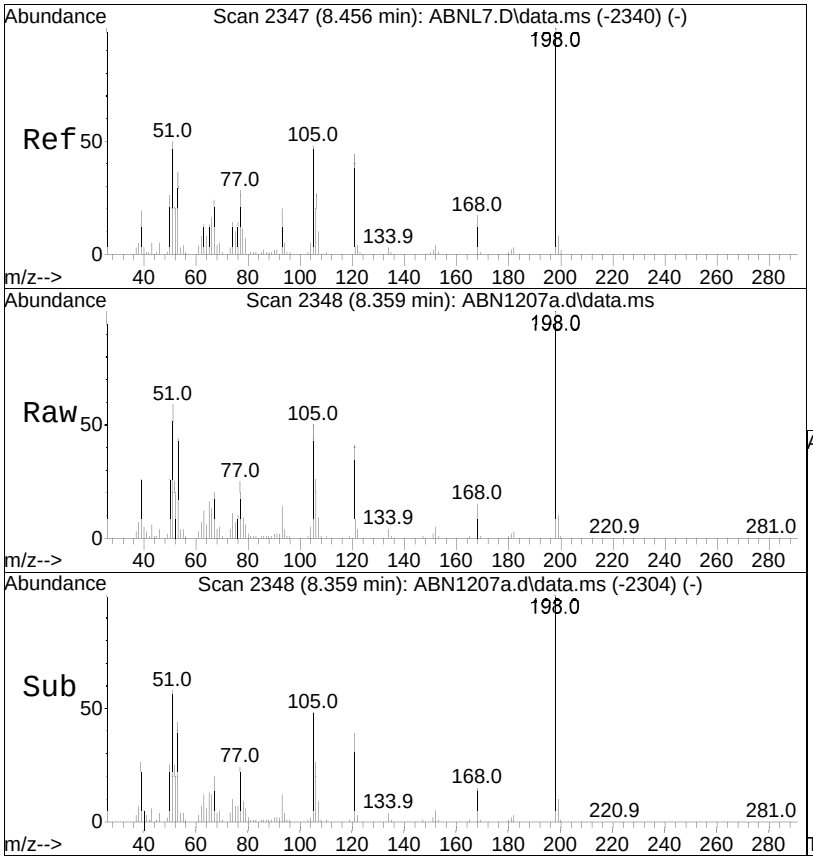


#74
4-Nitroaniline
Concen: 61.60 ug/ml
RT: 8.327 min Scan# 2337
Delta R.T. -0.006 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion:138 Resp: 94284

Ion	Ratio	Lower	Upper
138	100		
108	54.3	62.7	94.1#
65	108.4	107.8	161.6

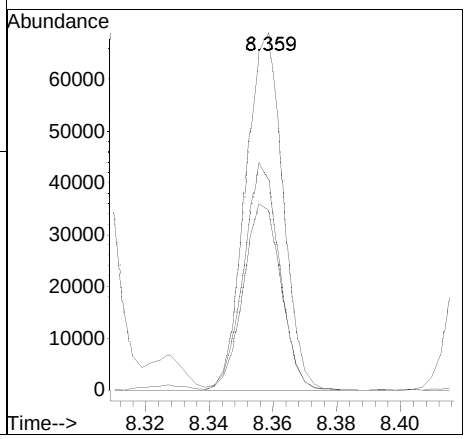


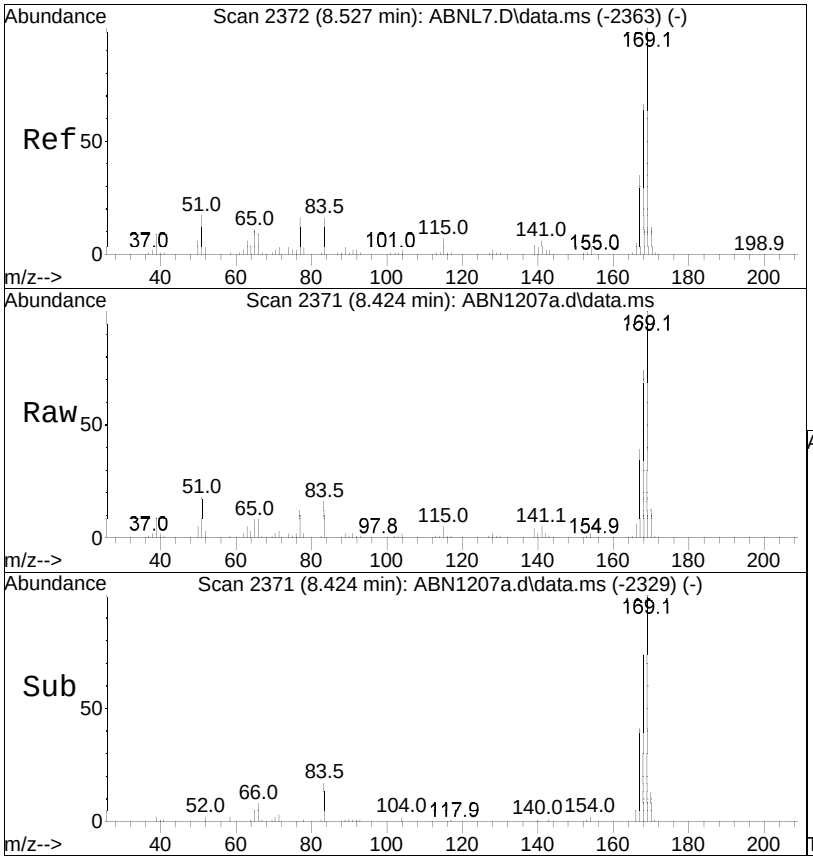


#75
4,6-Dinitro-o-cresol
Concen: 56.87 ug/ml
RT: 8.359 min Scan# 2348
Delta R.T. -0.000 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion:198 Resp: 56305

Ion	Ratio	Lower	Upper
198	100		
51	60.6	59.0	88.4
105	52.8	45.0	67.6

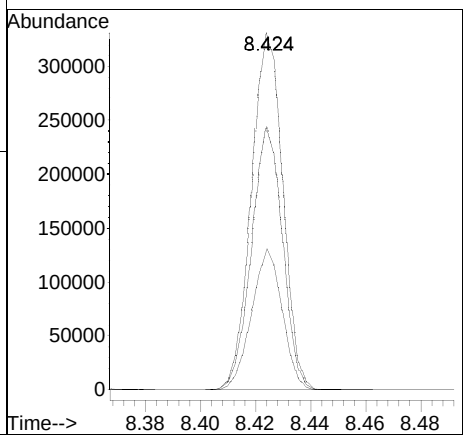


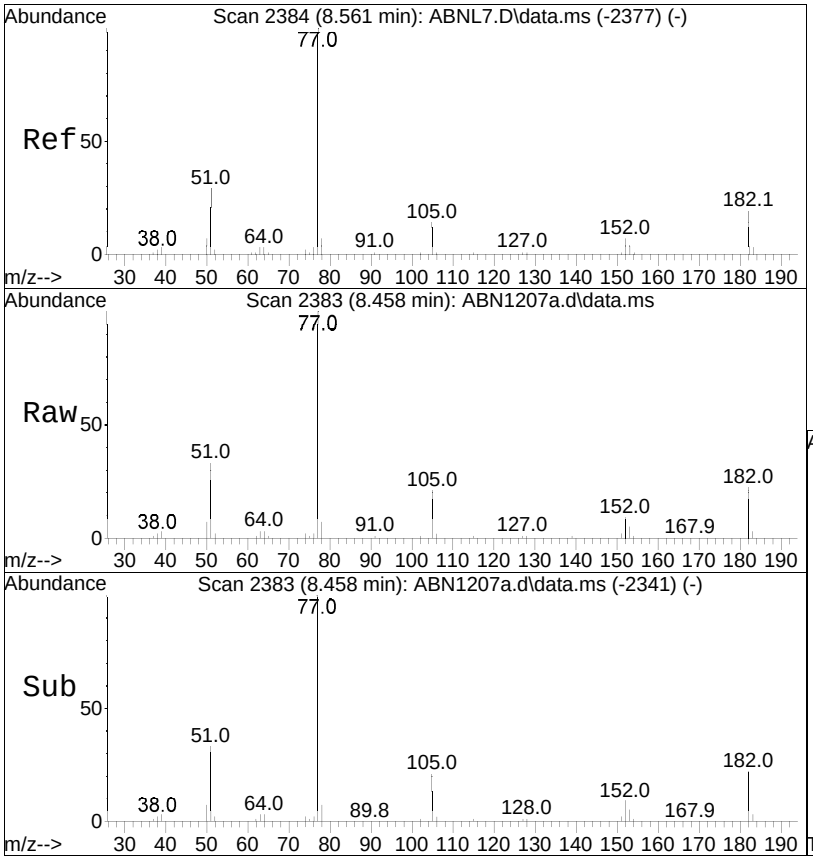


#76
NDPA/DPA
Concen: 54.60 ug/ml
RT: 8.424 min Scan# 2371
Delta R.T. -0.006 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion:169 Resp: 263098

Ion	Ratio	Lower	Upper
169	100		
168	72.7	55.4	83.0
167	38.6	30.3	45.5

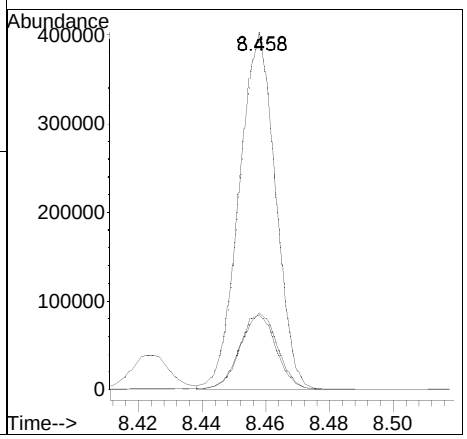


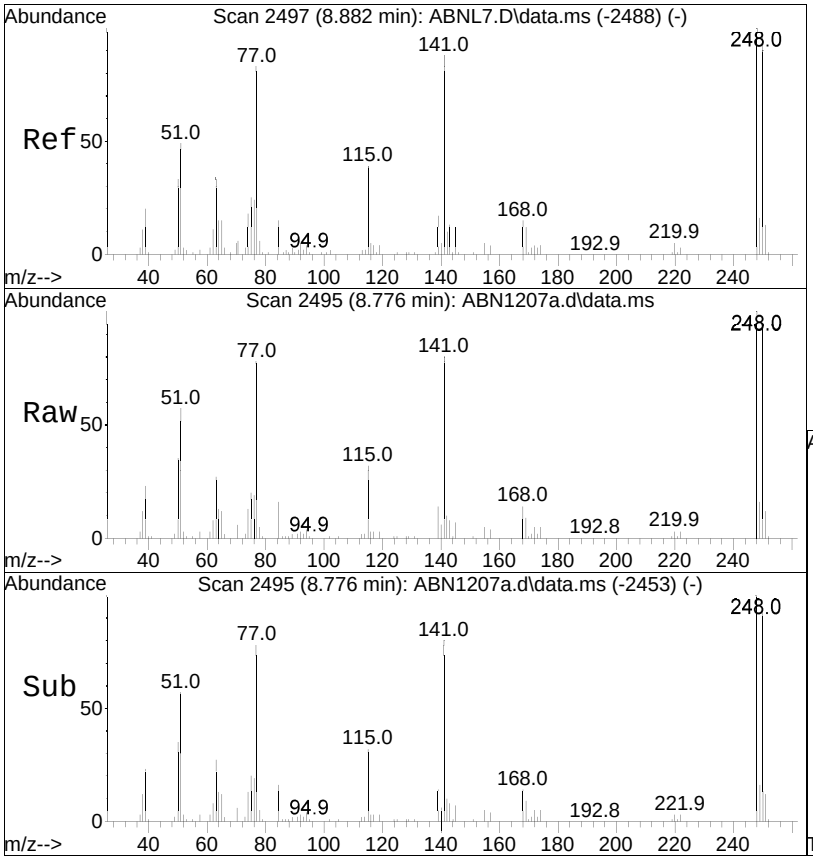


#77
Azobenzene
Concen: 49.02 ug/ml
RT: 8.458 min Scan# 2383
Delta R.T. -0.006 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion: 77 Resp: 316542

Ion	Ratio	Lower	Upper
77	100		
182	22.1	16.0	24.0
105	21.5	15.6	23.4

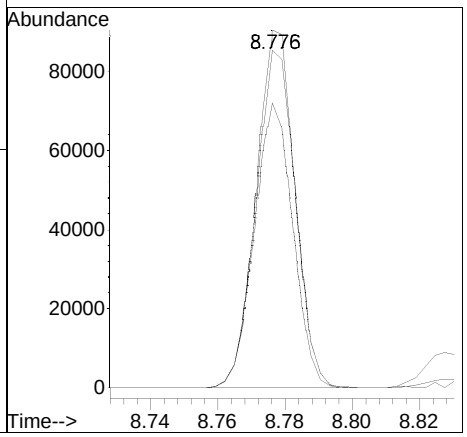


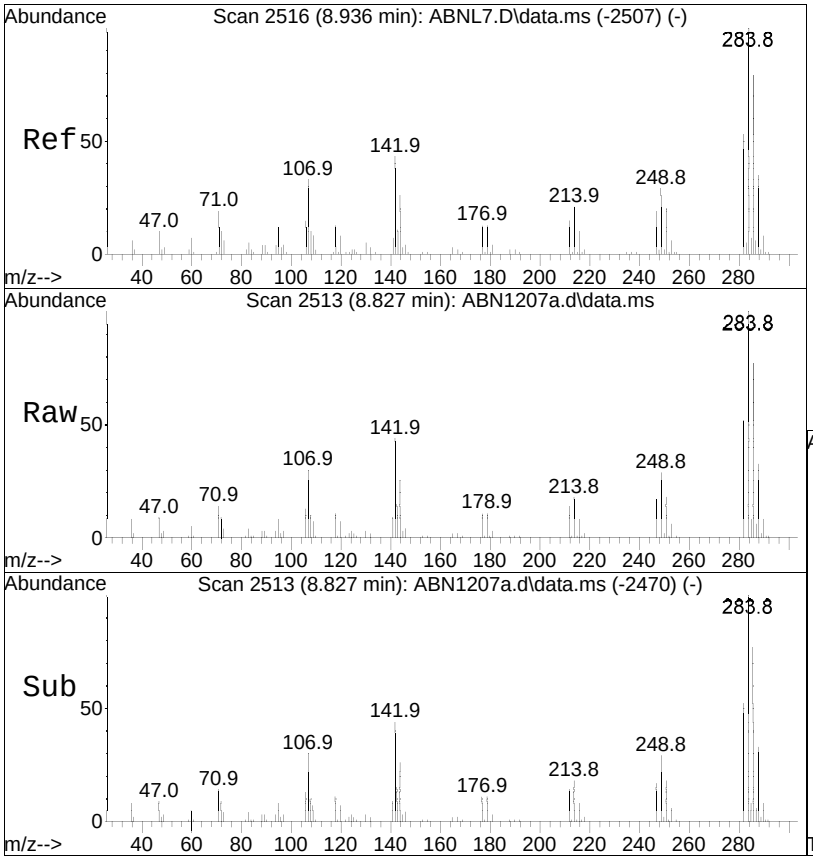


#79
4-Bromophenyl phenyl ether
Concen: 54.53 ug/ml
RT: 8.776 min Scan# 2495
Delta R.T. -0.006 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion:248 Resp: 72331

Ion	Ratio	Lower	Upper
248	100		
141	78.9	76.8	115.2
250	95.2	79.7	119.5

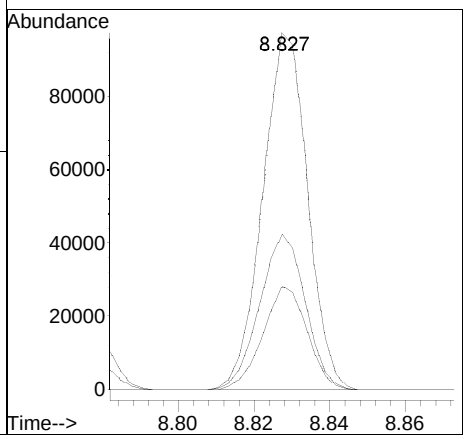


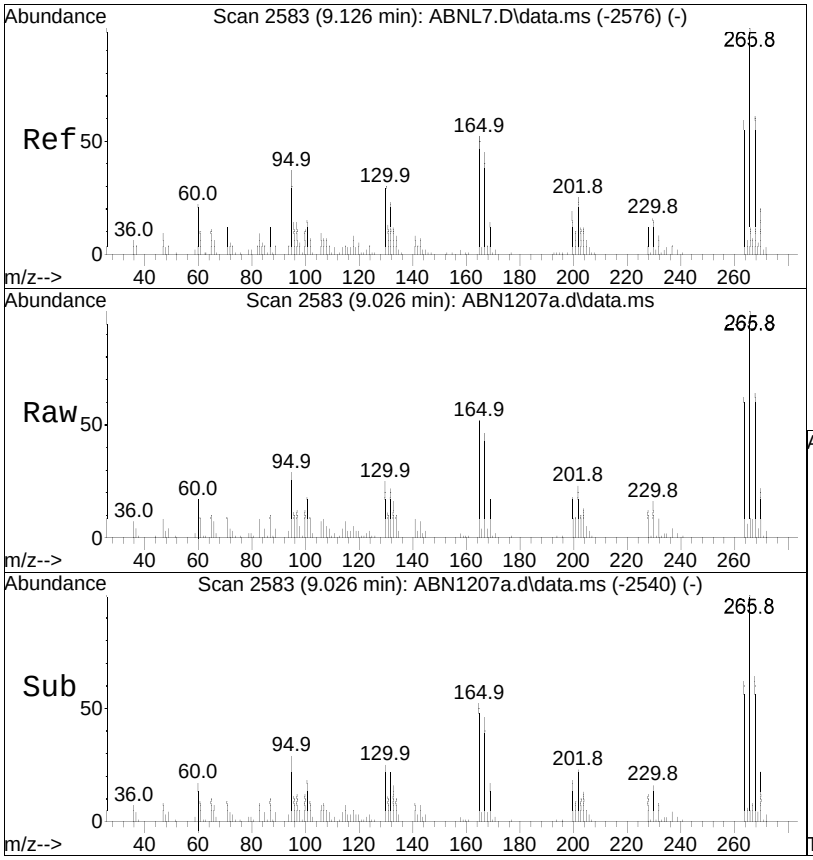


#80
Hexachlorobenzene
Concen: 55.72 ug/ml
RT: 8.827 min Scan# 2513
Delta R.T. -0.003 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion:284 Resp: 79962

Ion	Ratio	Lower	Upper
284	100		
142	44.4	35.8	53.6
249	28.7	24.7	37.1

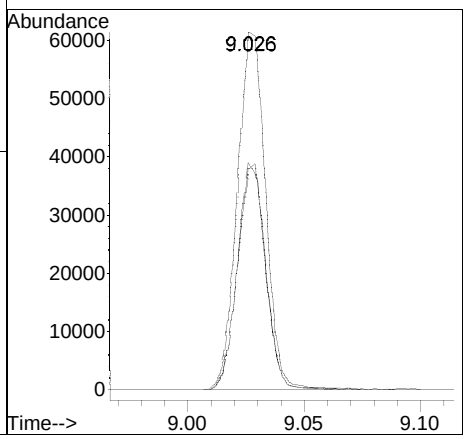


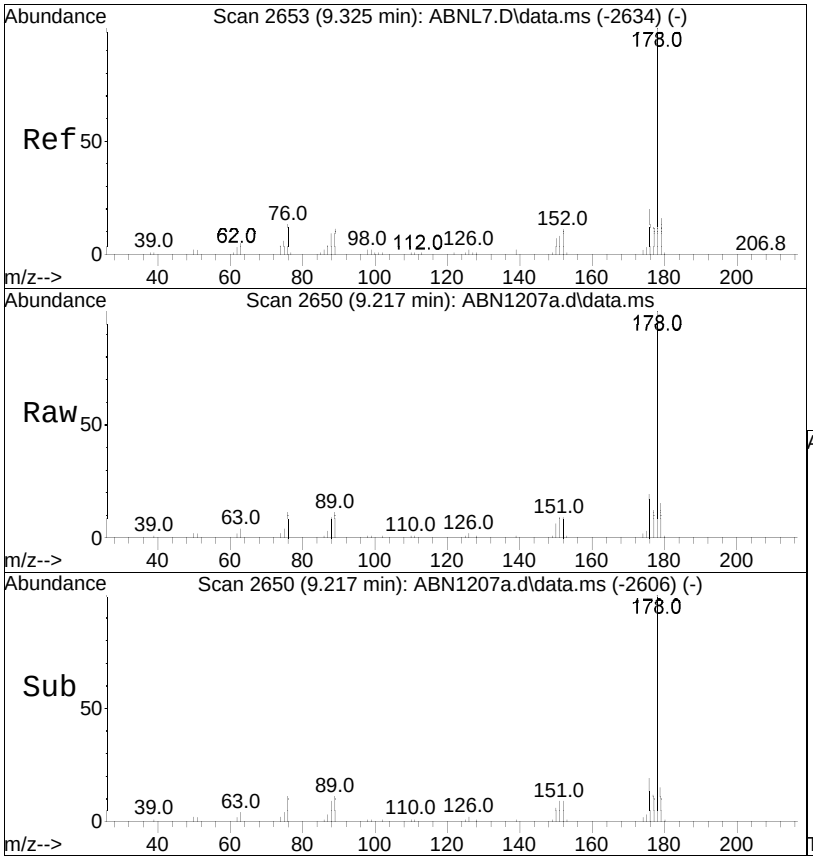


#81
Pentachlorophenol
Concen: 56.66 ug/ml
RT: 9.026 min Scan# 2583
Delta R.T. -0.003 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion:266 Resp: 51478

Ion	Ratio	Lower	Upper
266	100		
264	62.4	51.8	77.6
268	63.8	49.8	74.8

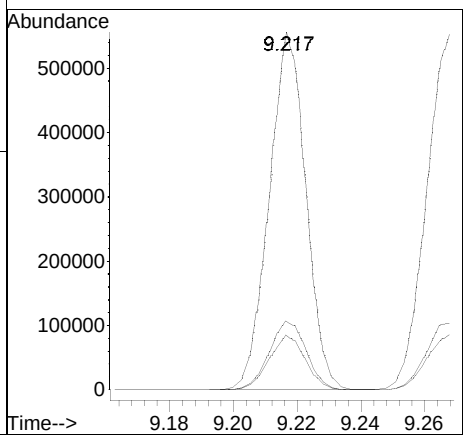


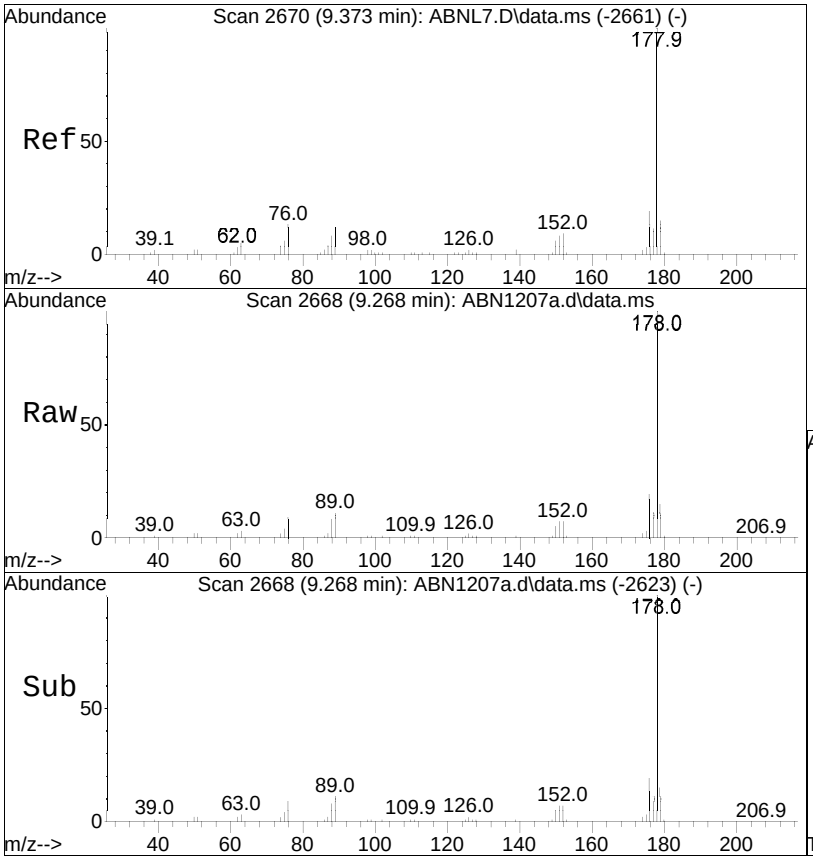


#88
Phenanthrene
Concen: 53.02 ug/ml
RT: 9.217 min Scan# 2650
Delta R.T. 0.000 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion:178 Resp: 444085

Ion	Ratio	Lower	Upper
178	100		
179	15.2	12.2	18.2
176	19.5	15.4	23.2

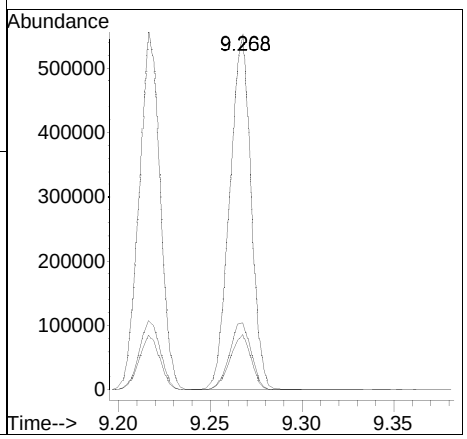


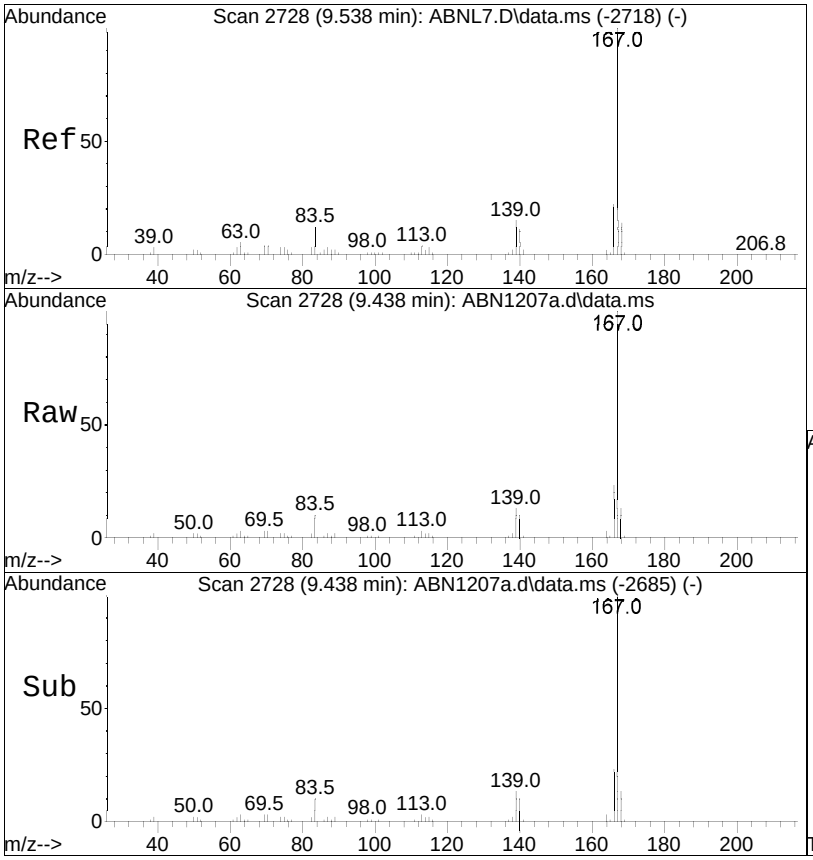


#89
Anthracene
Concen: 53.73 ug/ml
RT: 9.268 min Scan# 2668
Delta R.T. 0.003 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion:178 Resp: 447713

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.1	18.1
176	19.1	14.8	22.2

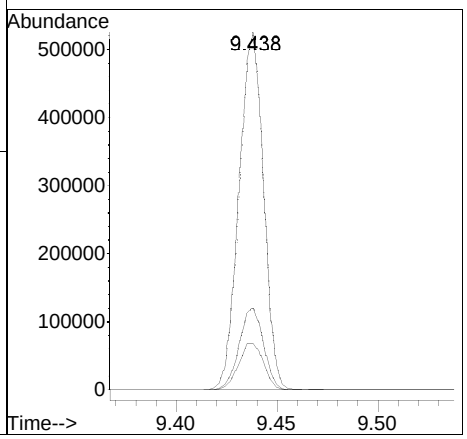


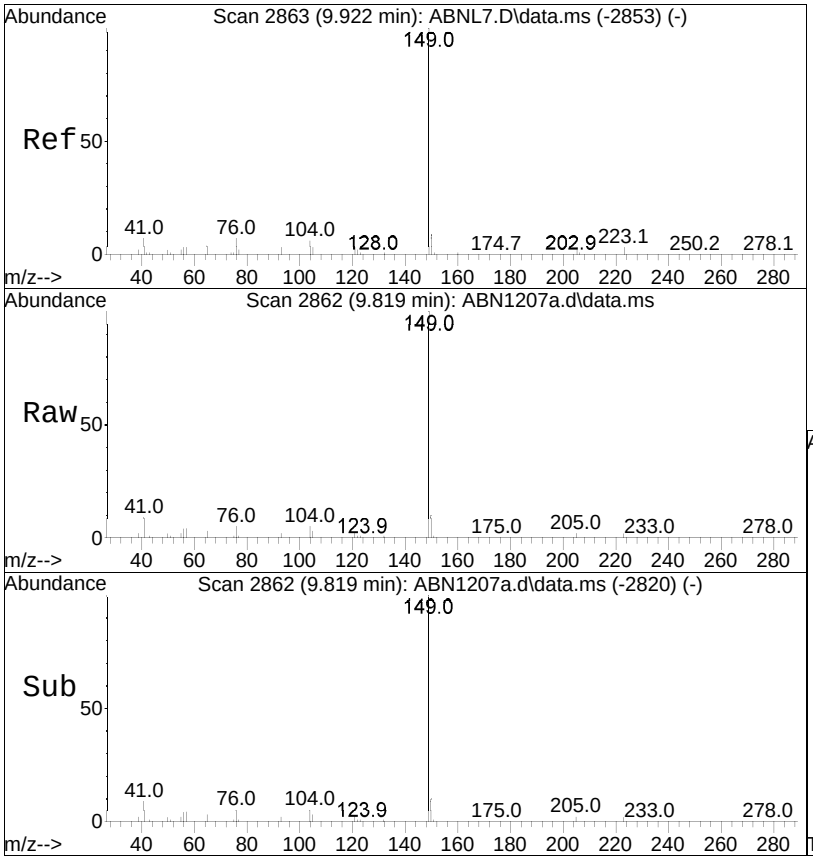


#90
Carbazole
Concen: 56.77 ug/ml
RT: 9.438 min Scan# 2728
Delta R.T. -0.003 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion:167 Resp: 438550

Ion	Ratio	Lower	Upper
167	100		
168	13.5	10.6	15.8
166	22.9	17.7	26.5

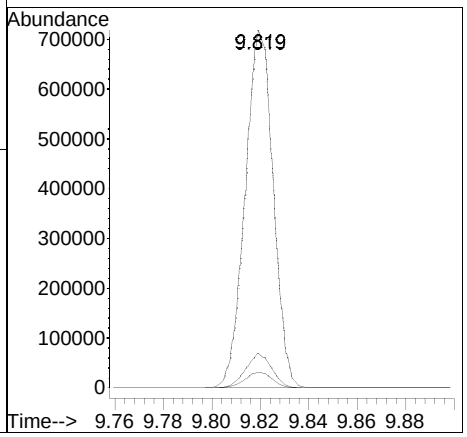


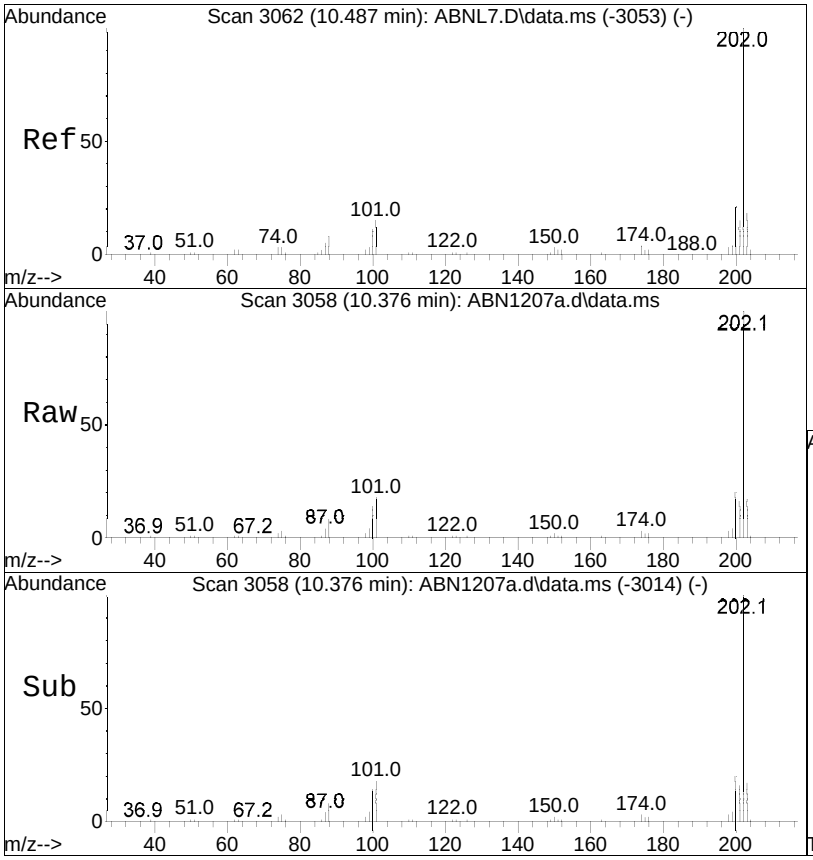


#91
Di-n-butylphthalate
Concen: 57.54 ug/ml
RT: 9.819 min Scan# 2862
Delta R.T. -0.006 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion:149 Resp: 568922

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.4	11.0
104	4.4	4.2	6.2

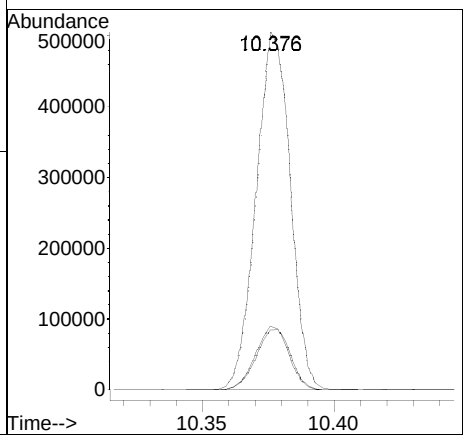


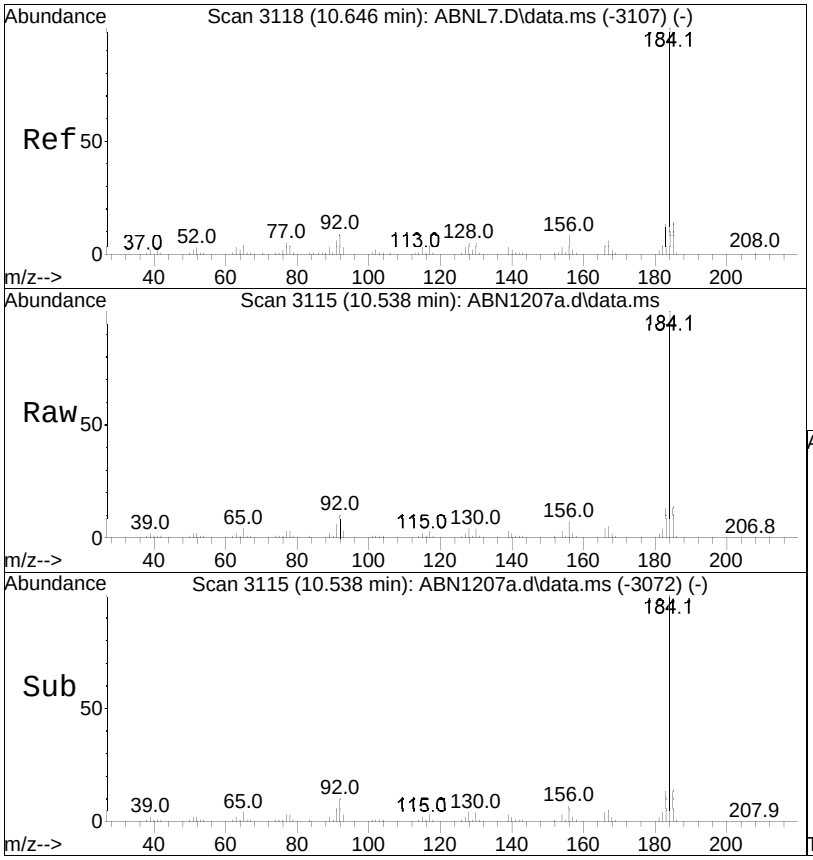


#92
Fluoranthene
Concen: 54.89 ug/ml
RT: 10.376 min Scan# 3058
Delta R.T. 0.000 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion:202 Resp: 450237

Ion	Ratio	Lower	Upper
202	100		
101	17.5	11.4	17.0#
203	17.2	13.9	20.9

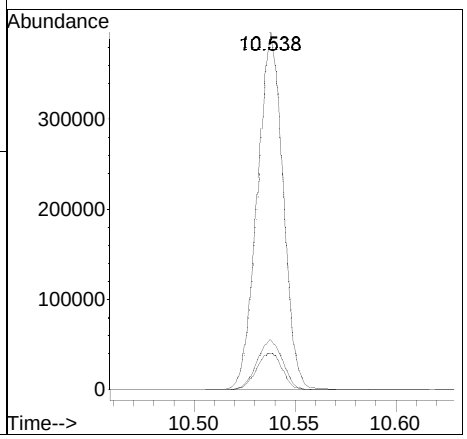


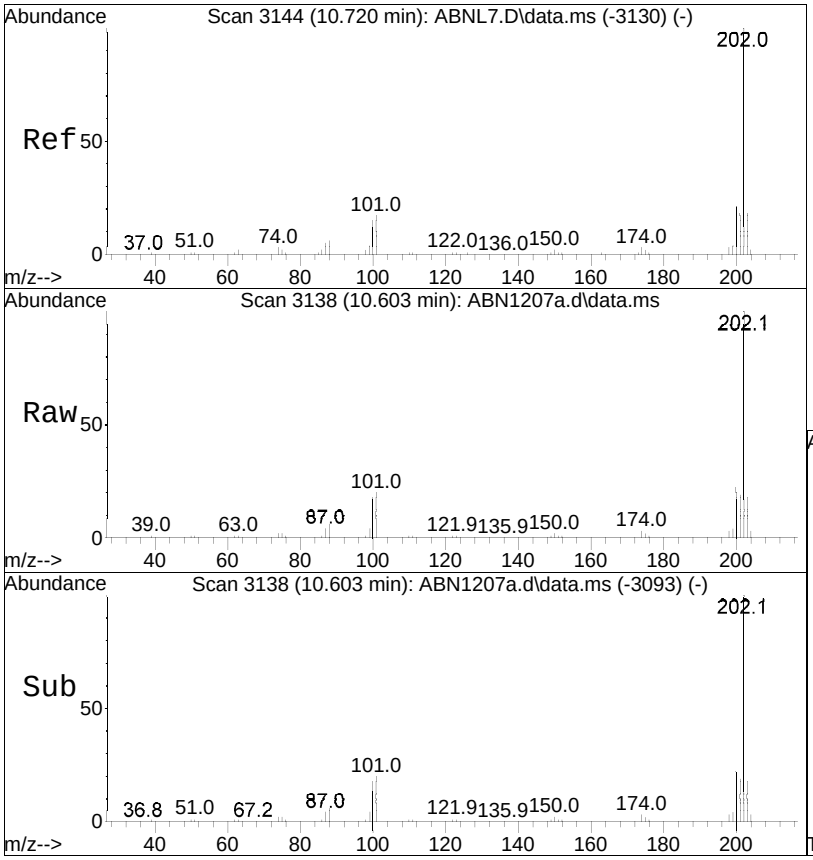


#93
Benzidine
Concen: 61.70 ug/ml
RT: 10.538 min Scan# 3115
Delta R.T. -0.003 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion:184 Resp: 347107

Ion	Ratio	Lower	Upper
184	100		
92	10.5	7.6	11.4
185	14.3	11.5	17.3

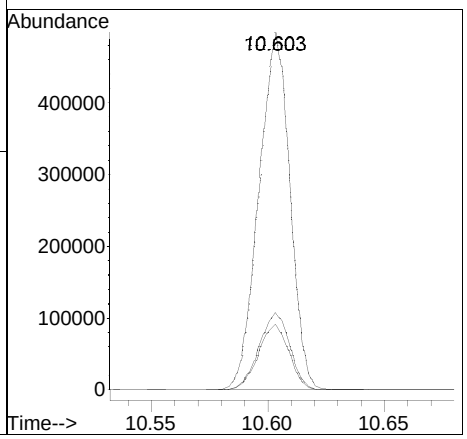


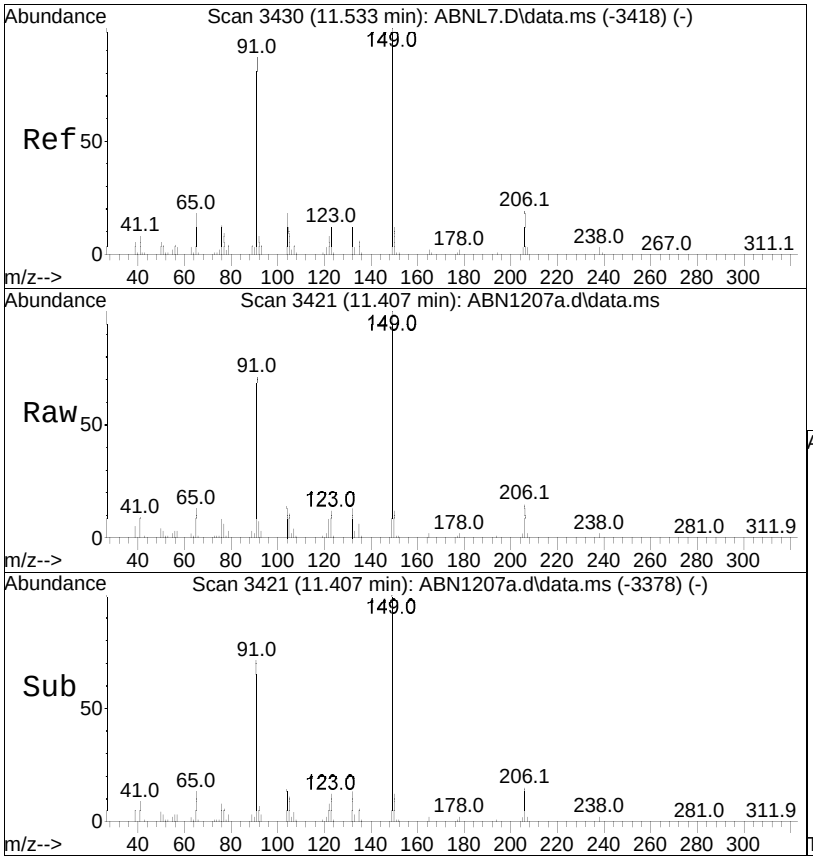


#94
Pyrene
Concen: 53.73 ug/ml
RT: 10.603 min Scan# 3138
Delta R.T. 0.003 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion:202 Resp: 456959

Ion	Ratio	Lower	Upper
202	100		
200	21.6	17.0	25.4
203	18.2	14.2	21.2

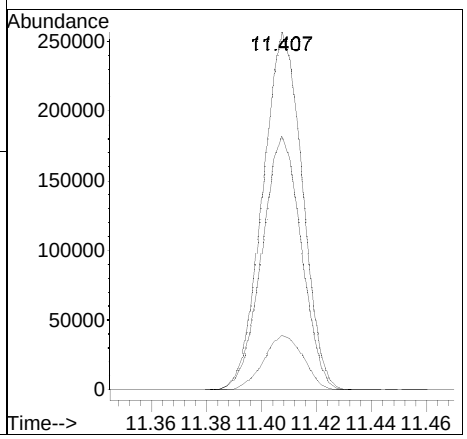


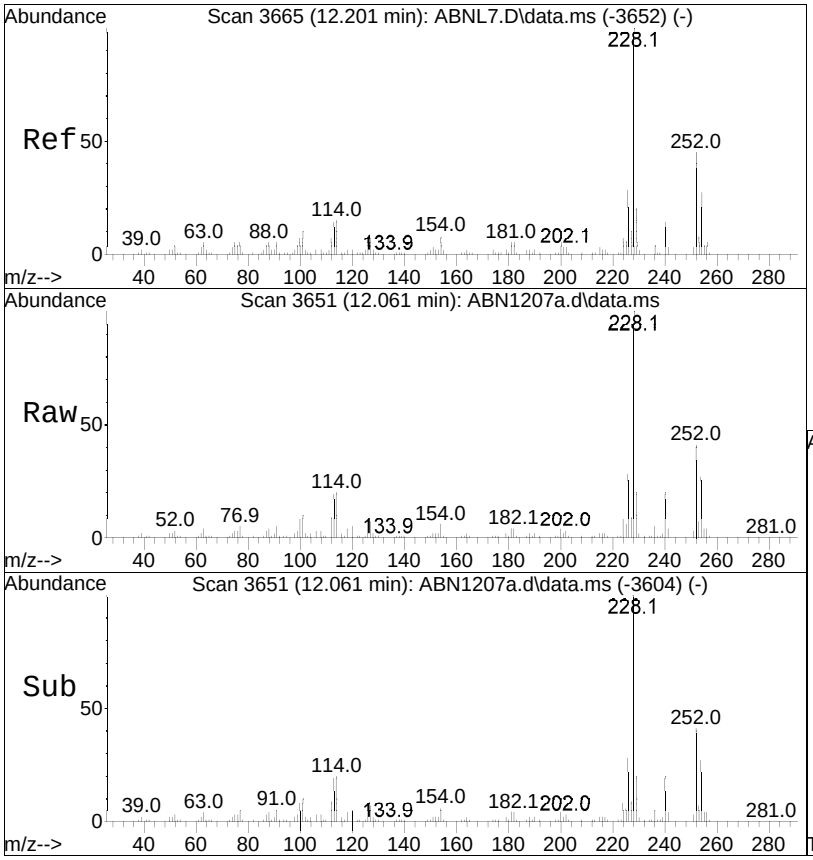


#96
Butyl benzyl phthalate
Concen: 58.24 ug/ml
RT: 11.407 min Scan# 3421
Delta R.T. -0.003 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion:149 Resp: 255139

Ion	Ratio	Lower	Upper
149	100		
91	70.4	61.2	91.8
206	15.5	12.5	18.7

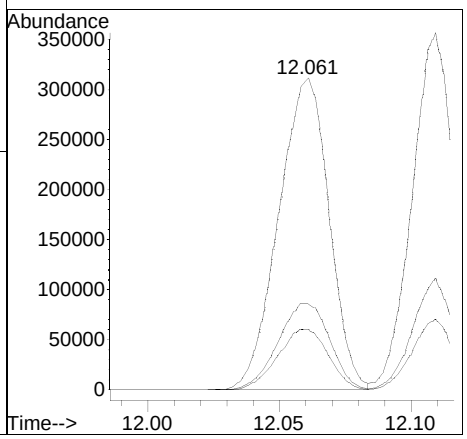


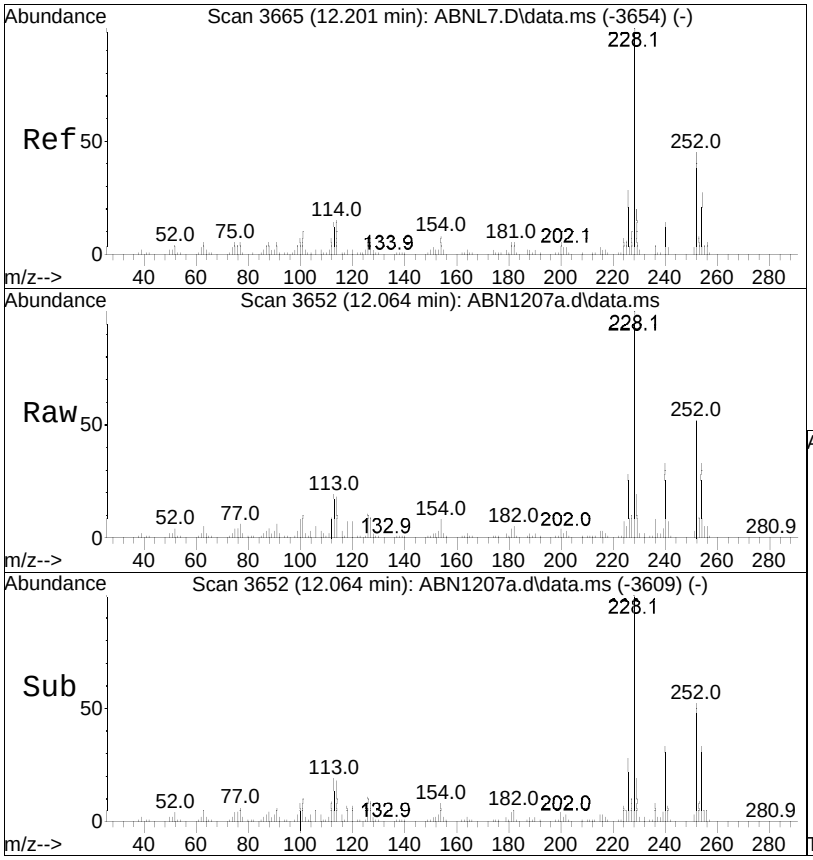


#104
Benzo(a)anthracene
Concen: 54.08 ug/ml
RT: 12.061 min Scan# 3651
Delta R.T. 0.009 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion:228 Resp: 413663

Ion	Ratio	Lower	Upper
228	100		
226	28.4	22.2	33.2
229	19.6	15.6	23.4

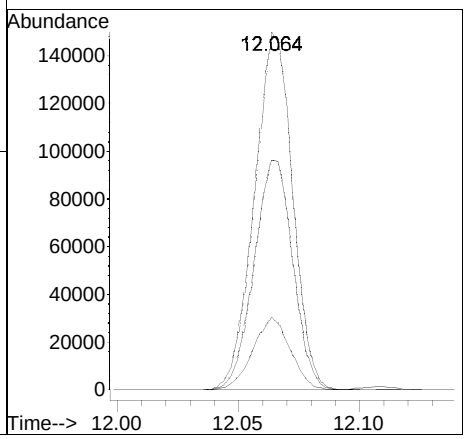


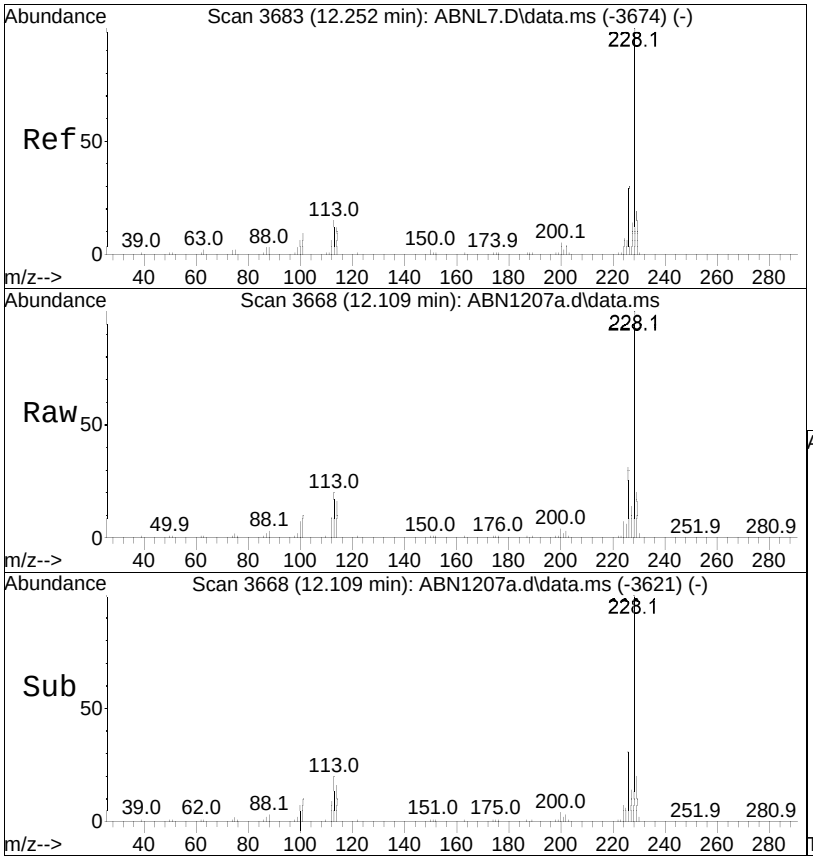


#105
3,3'-Dichlorobenzidine
Concen: 58.55 ug/ml
RT: 12.064 min Scan# 3652
Delta R.T. -0.003 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion:252 Resp: 162972

Ion	Ratio	Lower	Upper
252	100		
126	20.1	13.8	20.6
254	65.2	53.0	79.6

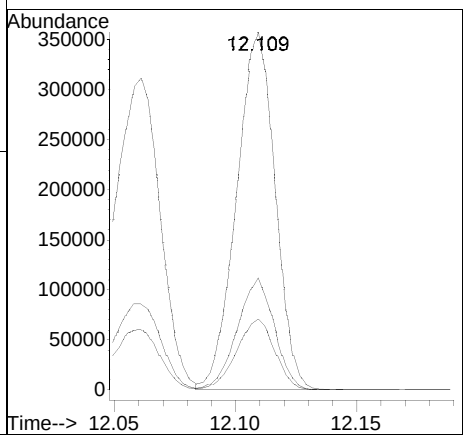


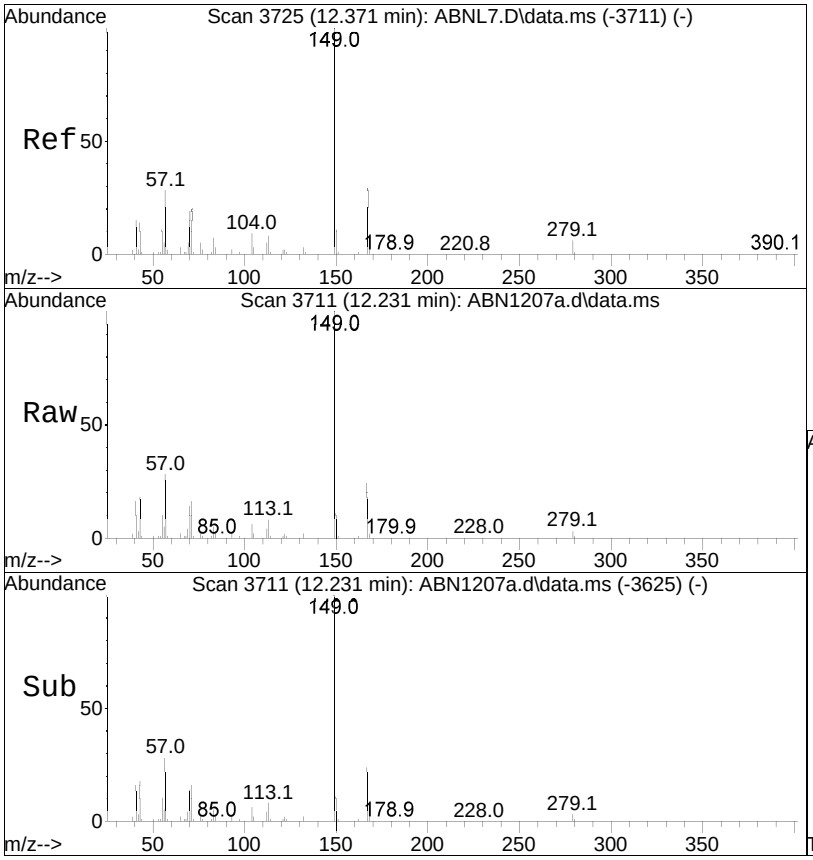


#106
Chrysene
Concen: 54.72 ug/ml
RT: 12.109 min Scan# 3668
Delta R.T. 0.009 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion:228 Resp: 395241

Ion	Ratio	Lower	Upper
228	100		
226	30.0	24.6	37.0
229	19.5	15.8	23.6

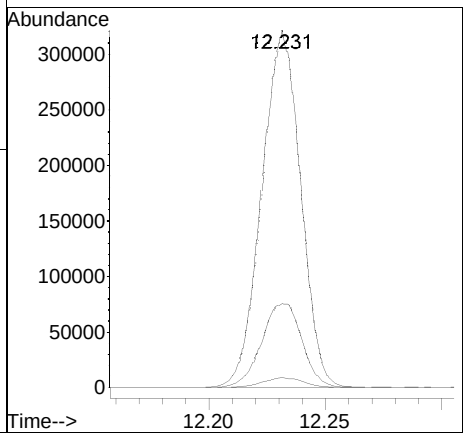


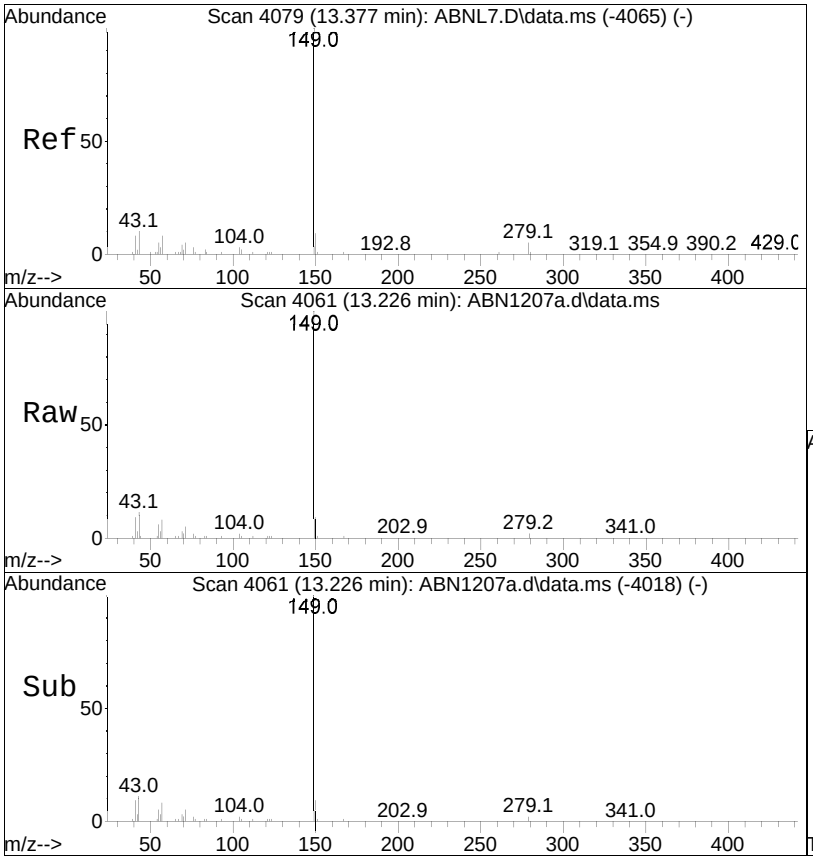


#107
Bis(2-ethylhexyl)phthalate
Concen: 61.20 ug/ml
RT: 12.231 min Scan# 3711
Delta R.T. -0.006 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion:149 Resp: 369682

Ion	Ratio	Lower	Upper
149	100		
167	24.7	19.4	29.0
279	2.7	2.3	3.5

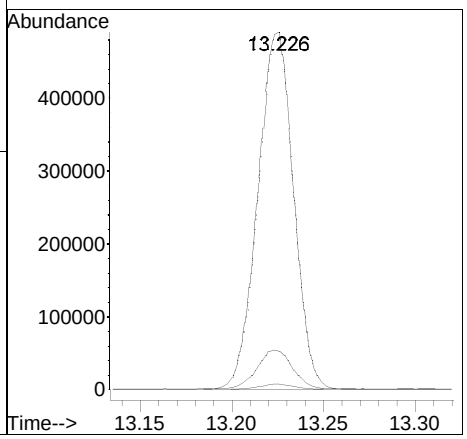


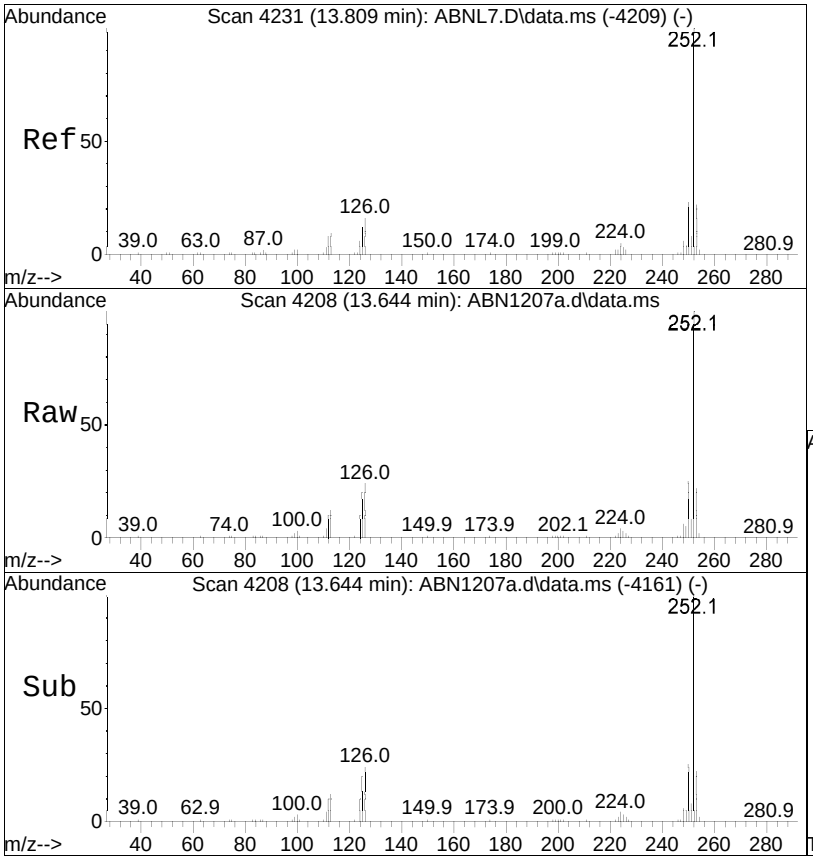


#108
Di-n-octylphthalate
Concen: 62.76 ug/ml
RT: 13.226 min Scan# 4061
Delta R.T. -0.003 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion:149 Resp: 655826

Ion	Ratio	Lower	Upper
149	100		
43	11.0	10.1	15.1
167	1.3	1.1	1.7

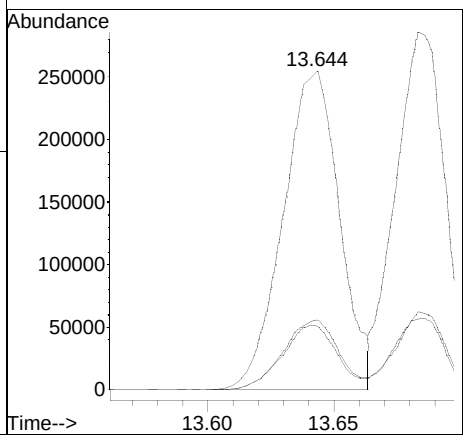


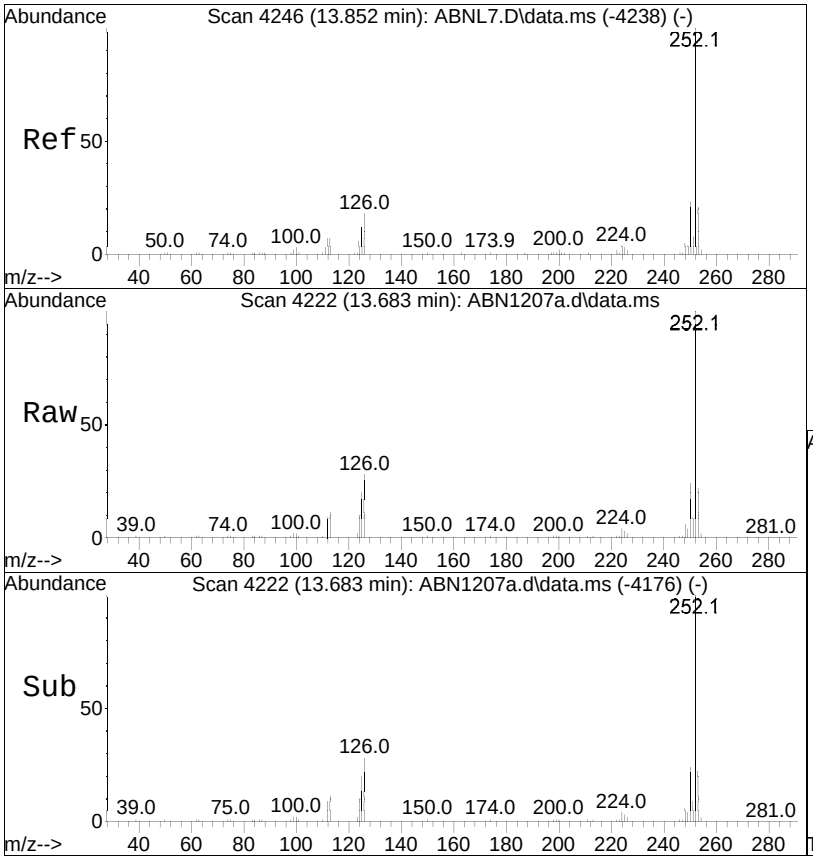


#109
Benzo(b)fluoranthene
Concen: 56.59 ug/ml
RT: 13.644 min Scan# 4208
Delta R.T. 0.009 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion:252 Resp: 396276

Ion	Ratio	Lower	Upper
252	100		
125	20.1	11.6	17.4#
253	21.8	17.4	26.0

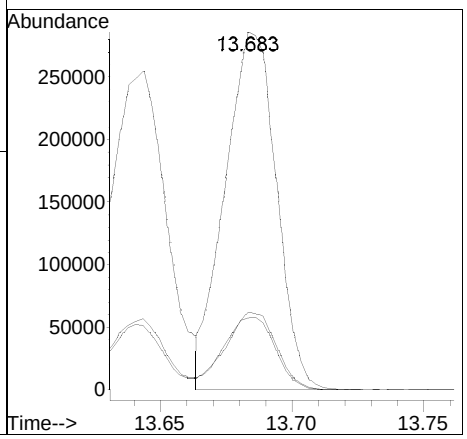


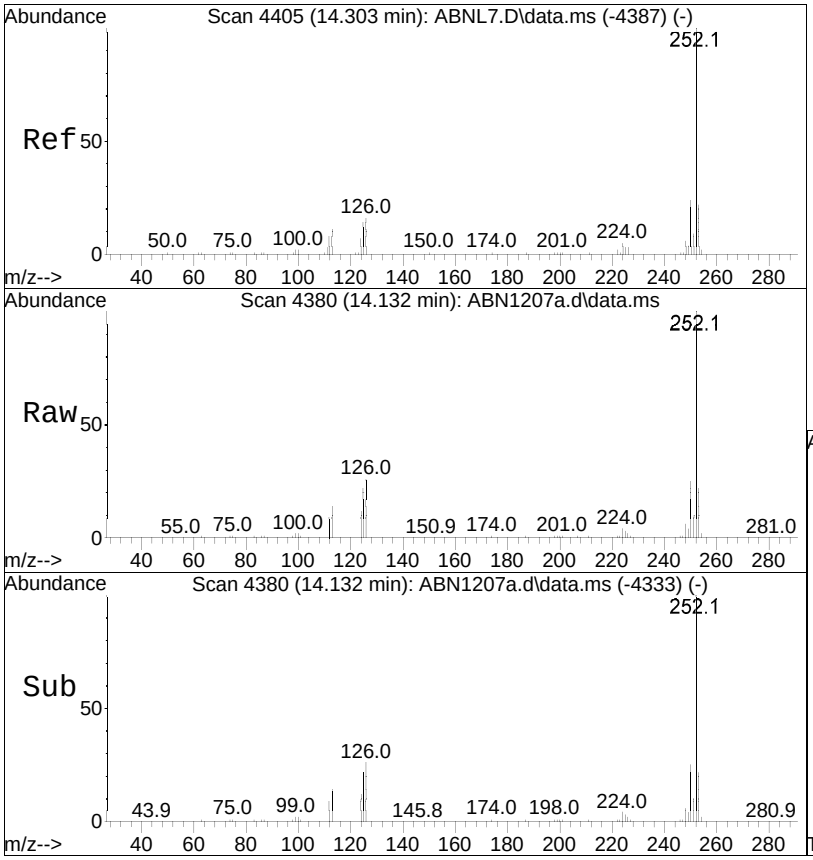


#110
Benzo(k)fluoranthene
Concen: 55.10 ug/ml
RT: 13.683 min Scan# 4222
Delta R.T. 0.006 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion:252 Resp: 387447

Ion	Ratio	Lower	Upper
252	100		
125	20.3	11.4	17.0#
253	21.8	17.2	25.8

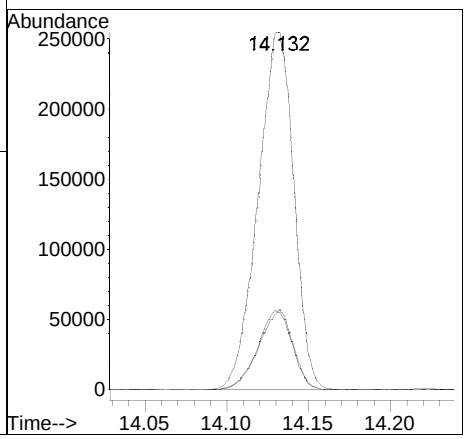


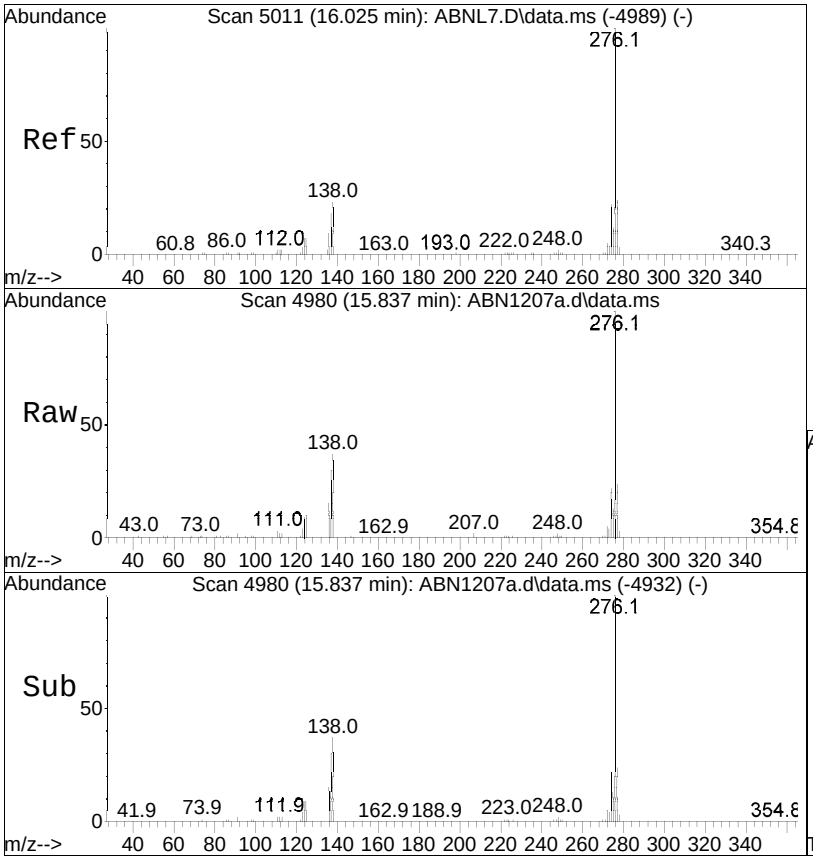


#111
Benzo(a)pyrene
Concen: 56.52 ug/ml
RT: 14.132 min Scan# 4380
Delta R.T. 0.009 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion:252 Resp: 383719

Ion	Ratio	Lower	Upper
252	100		
125	21.8	12.6	18.8#
253	21.6	16.9	25.3

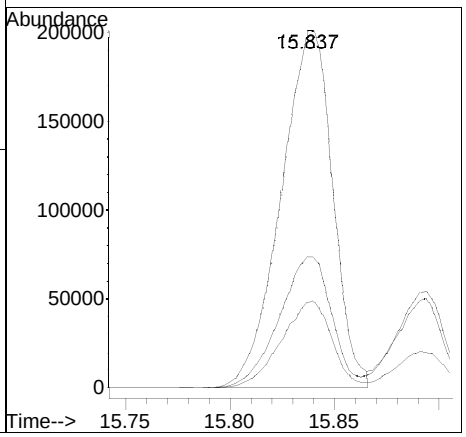


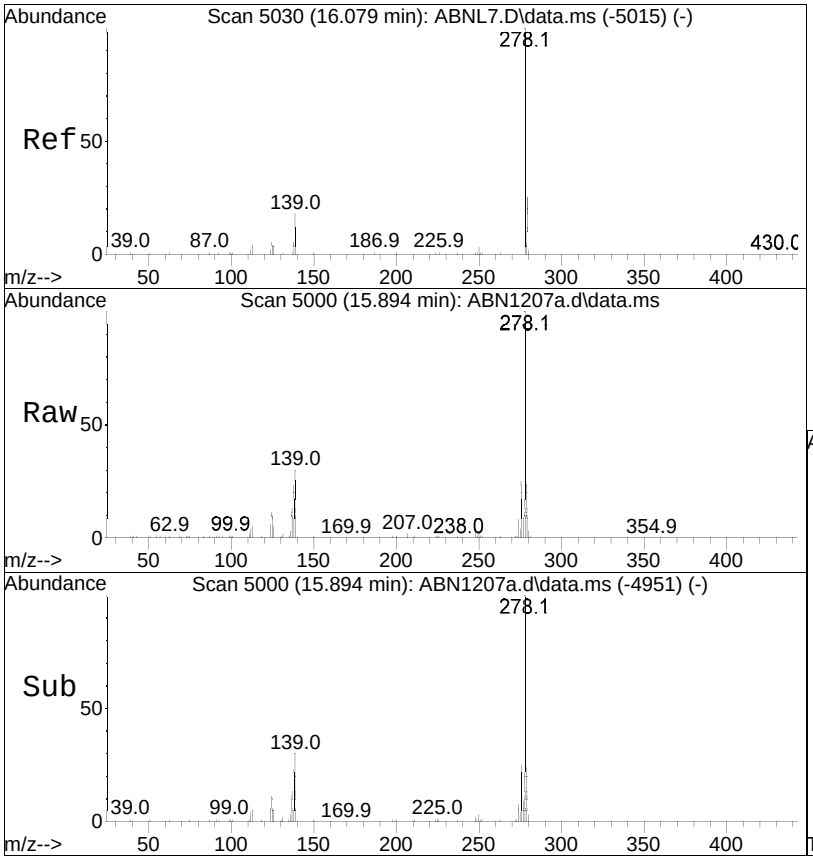


#113
Indeno(1,2,3-cd)pyrene
Concen: 54.86 ug/mL
RT: 15.837 min Scan# 4980
Delta R.T. 0.011 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion:276 Resp: 344989

Ion	Ratio	Lower	Upper
276	100		
138	37.3	21.4	32.0#
277	23.8	19.2	28.8

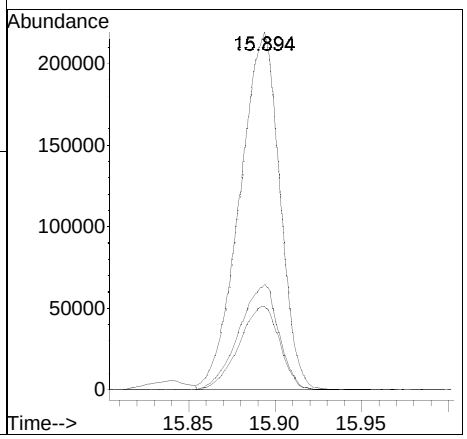


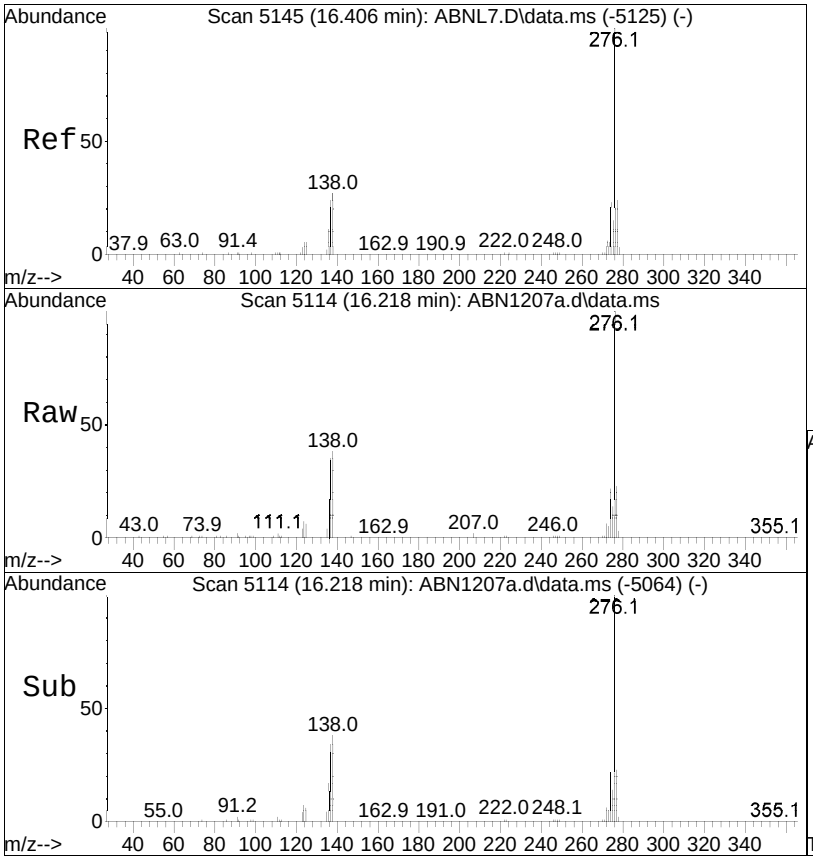


#114
Dibenzo(a,h)anthracene
Concen: 54.42 ug/ml
RT: 15.894 min Scan# 5000
Delta R.T. 0.014 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion:278 Resp: 349625

Ion	Ratio	Lower	Upper
278	100		
139	29.6	17.1	25.7#
279	24.1	19.3	28.9

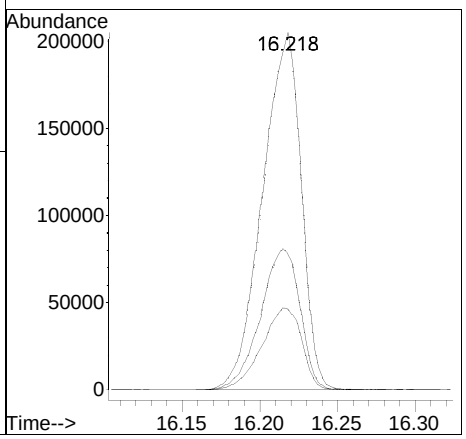




#115
Benzo(ghi)perylene
Concen: 52.85 ug/ml
RT: 16.218 min Scan# 5114
Delta R.T. 0.017 min
Lab File: ABN1207a.d
Acq: 7 Dec 2018 12:36 pm

Tgt Ion:276 Resp: 352342

Ion	Ratio	Lower	Upper
276	100		
138	40.6	23.0	34.4#
277	23.9	18.6	28.0



Manual Integration Report

Data Path	: I:\8270\SV103\181207a\	QMethod	: FS181204nSV103.m
Data File	: ABN1207a.d	Operator	: SV103:als
Date Inj'd	: 12/7/2018 12:36 pm	Instrument	: SV103
Sample	: wg1186894-3,32,,ABN CCV Lo	Quant Date	: 12/7/2018 1:09 pm

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV103\181207a\
Data File : AP91207a.d
Acq On : 7 Dec 2018 1:02 pm
Operator : SV103:als
Sample : wg1186894-4,32,,AP9 CCV Lot# 7908
Misc : wg1186894,wg1184908,ical15305
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Dec 07 13:35:05 2018
Quant Method : I:\8270\SV103\181207a\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 22:37:21 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
27	I	IS2_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	94	0.00
28	T	Benzaldehyde	1.166	1.265	-8.5	103	0.00
29	T	Acetophenone	1.889	2.067	-9.4	101	0.00
30	T	m-Toluidine	2.006	2.116	-5.5	96	0.00
31	T	2-Chloroaniline	1.798	1.952	-8.6	99	0.00
54	I	IS2_Naphthalene-d8	1.000	1.000	0.0	90	0.00
55	T	a-Terpineol	0.305	0.279	8.5	81	0.00
56	T	3-Chloroaniline	0.141	0.127	9.9	83	0.00
57	T	2,6-Dichlorophenol	0.232	0.277	-19.4	104	0.00
58	T	1-chloro-2-nitrobenzene	0.126	0.140	-11.1	96	0.00
59	T	Caprolactam	0.170	0.171	-0.6	89	0.00
60	T	1,2,4,5-Tetrachlorobenzene	0.217	0.252	-16.1	102	0.00
61	T	Biphenyl	0.702	0.793	-13.0	101	0.00
82	I	IS2_Acenaphthene-d10	1.000	1.000	0.0	93	0.00
83	T	Dichloran	0.136	0.187	-37.5#	122	0.00
84	T	Pentachloronitrobenzene	0.123	0.136	-10.6	102	0.00
97	I	IS2_Phenanthrene-d10	1.000	1.000	0.0	96	0.00
98	T	Diphenamid	0.476	0.560	-17.6	110	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181207a\
Data File : AP91207a.d
Acq On : 7 Dec 2018 1:02 pm
Operator : SV103:als
Sample : wg1186894-4,32,,AP9 CCV Lot# 7908
Misc : wg1186894,wg1184908,ical15305
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Dec 07 13:35:05 2018
Quant Method : I:\8270\SV103\181207a\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 22:37:21 2018
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.798	152	69779	40.000	ug/ml	0.00
54) IS2_Naphthalene-d8	6.040	136	297590	40.000	ug/ml	0.00
82) IS2_Acenaphthene-d10	7.751	164	137134	40.000	ug/ml	0.00
97) IS2_Phenanthrene-d10	9.191	188	265255	40.000	ug/ml	0.00
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.364	105	110303	54.225	ug/ml	84
29) Acetophenone	5.202	105	180250	54.710	ug/ml	93
30) m-Toluidine	5.284	106	184534	52.727	ug/ml	98
31) 2-Chloroaniline	5.645	127	170295	54.290	ug/ml#	93
55) a-Terpineol	6.097	59	103732	45.712	ug/ml	94
56) 3-Chloroaniline	6.114	65	47418	45.133	ug/ml#	58
57) 2,6-Dichlorophenol	6.139	162	102932	59.662	ug/ml#	90
58) 1-chloro-2-nitrobenzene	6.395	111	52078	55.589	ug/ml	90
59) Caprolactam	6.452	55	63499	50.246	ug/ml#	87
60) 1,2,4,5-Tetrachloroben...	6.907	216	93617	57.875	ug/ml	99
61) Biphenyl	7.202	154	295004	56.451	ug/ml	98
83) Dichloran	8.887	206	31977	68.632	ug/ml#	79
84) Pentachloronitrobenzene	9.035	237	23320	55.441	ug/ml	94
98) Diphenamid	10.098	167	185666	58.794	ug/ml	90

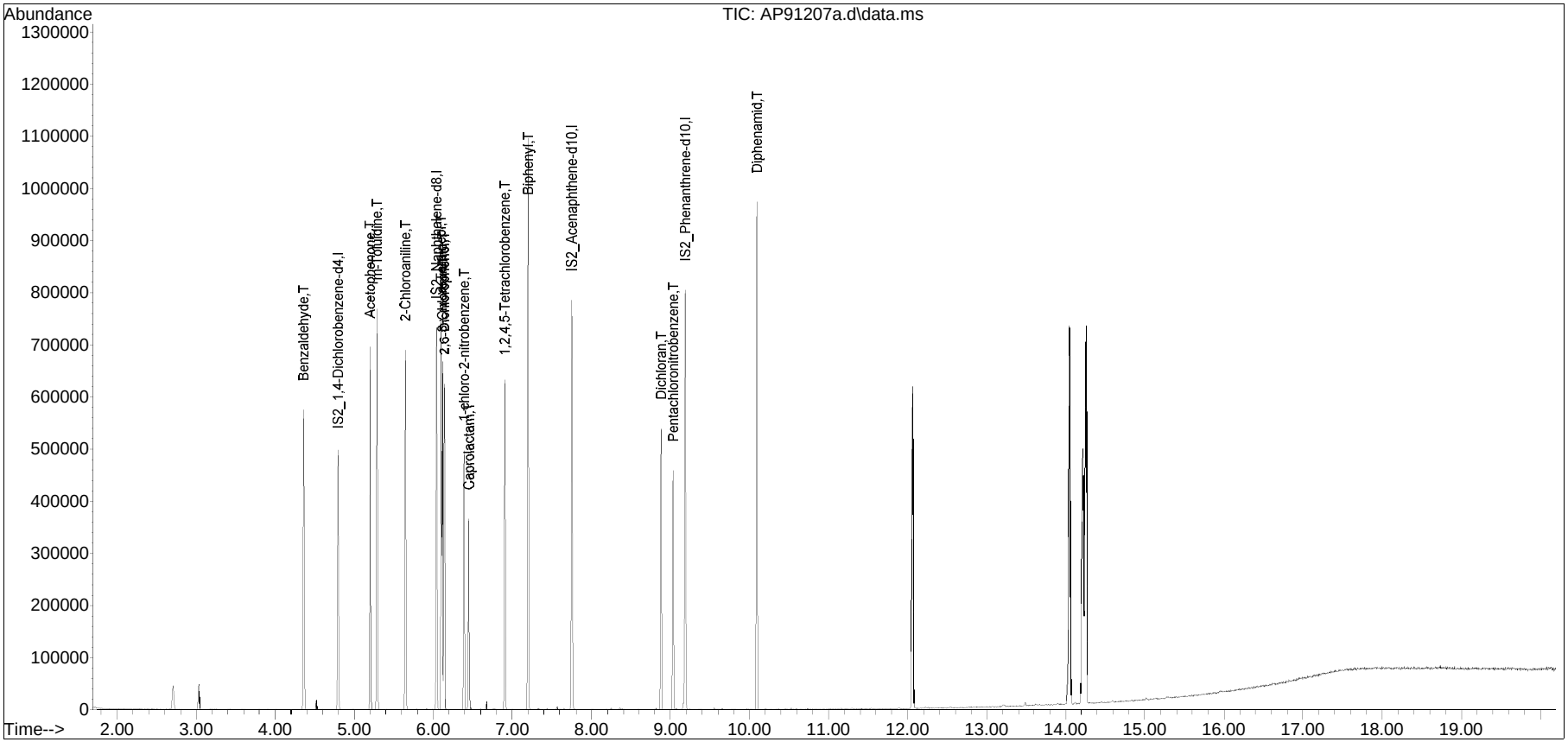
(#) = qualifier out of range (m) = manual integration (+) = signals summed

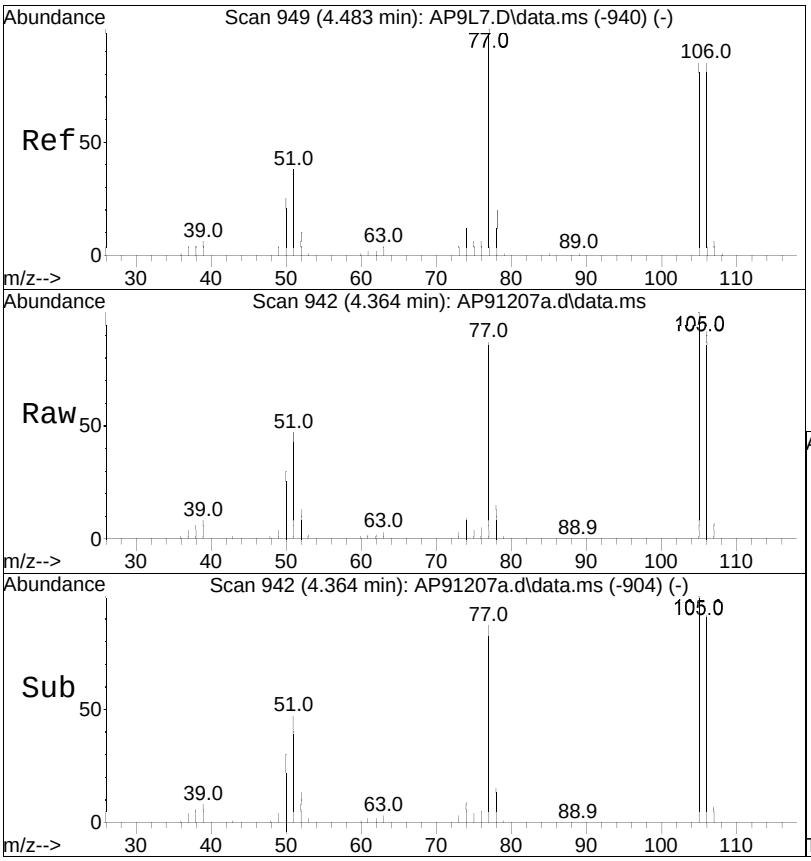
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181207a\
Data File : AP91207a.d
Acq On : 7 Dec 2018 1:02 pm
Operator : SV103:als
Sample : wg1186894-4,32,,AP9 CCV Lot# 7908
Misc : wg1186894,wg1184908,ical15305
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Dec 07 13:35:05 2018
Quant Method : I:\8270\SV103\181207a\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Thu Dec 06 22:37:21 2018
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

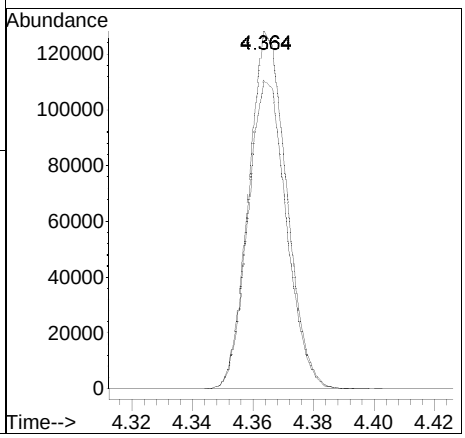


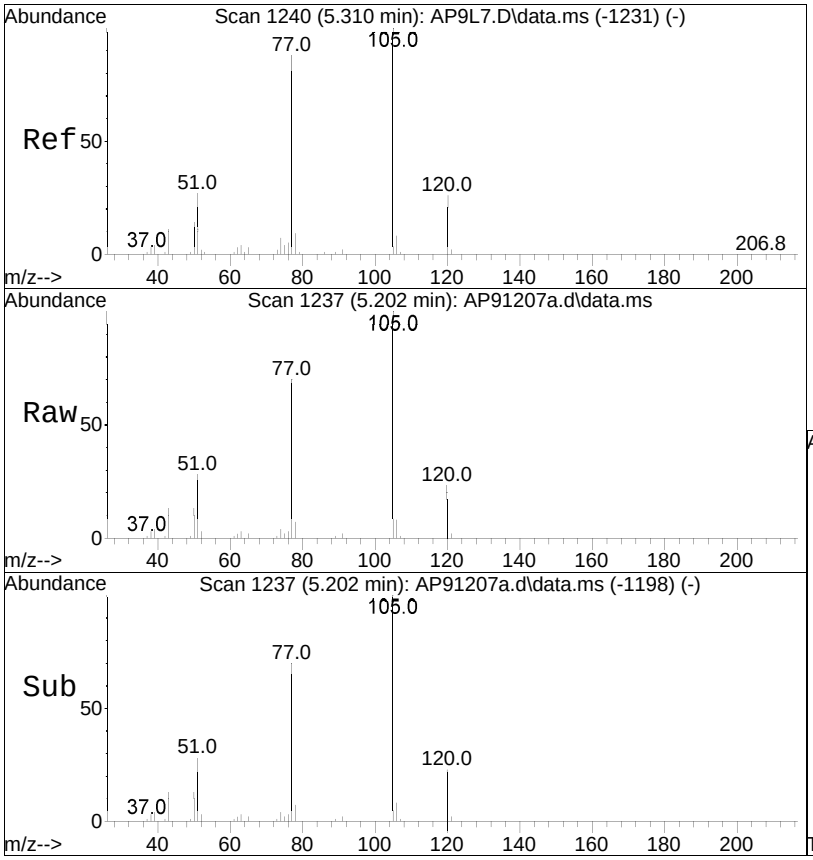


#28
Benzaldehyde
Concen: 54.23 ug/ml
RT: 4.364 min Scan# 942
Delta R.T. -0.017 min
Lab File: AP91207a.d
Acq: 7 Dec 2018 1:02 pm

Tgt Ion:105 Resp: 110303

Ion	Ratio	Lower	Upper
105	100		
77	87.5	82.9	124.3

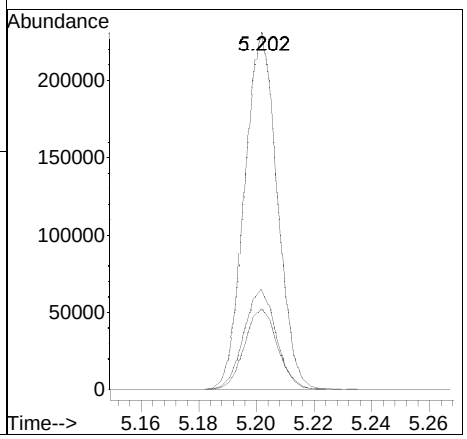


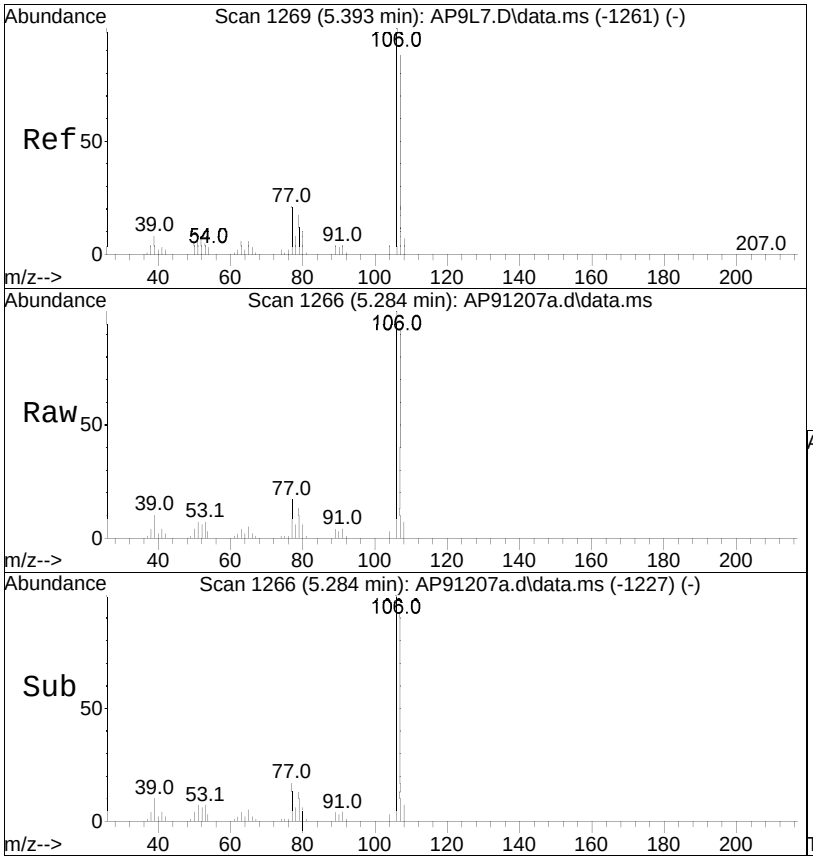


#29
Acetophenone
Concen: 54.71 ug/ml
RT: 5.202 min Scan# 1237
Delta R.T. -0.014 min
Lab File: AP91207a.d
Acq: 7 Dec 2018 1:02 pm

Tgt Ion:105 Resp: 180250

Ion	Ratio	Lower	Upper
105	100		
120	22.8	16.4	24.6
51	28.0	26.5	39.7

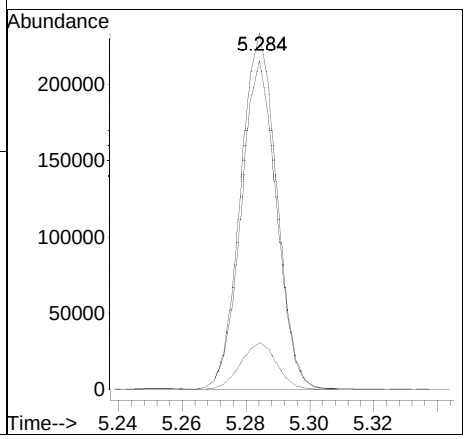


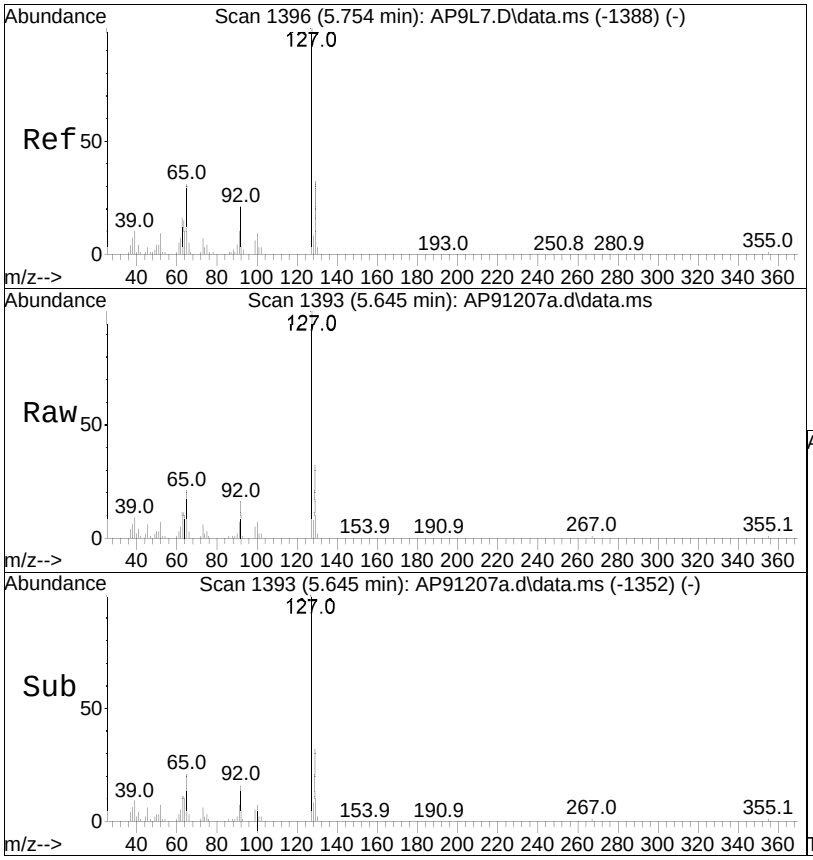


#30
m-Toluidine
Concen: 52.73 ug/ml
RT: 5.284 min Scan# 1266
Delta R.T. -0.014 min
Lab File: AP91207a.d
Acq: 7 Dec 2018 1:02 pm

Tgt Ion:106 Resp: 184534

Ion	Ratio	Lower	Upper
106	100		
107	90.4	71.6	107.4
79	13.2	12.7	19.1

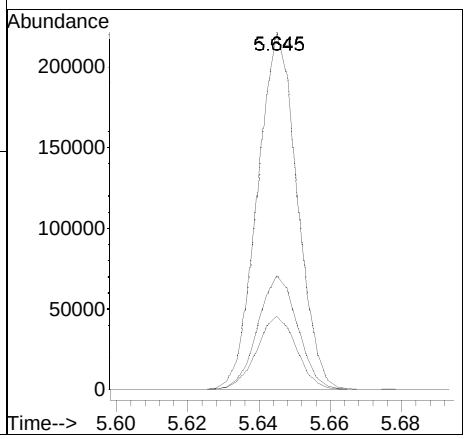


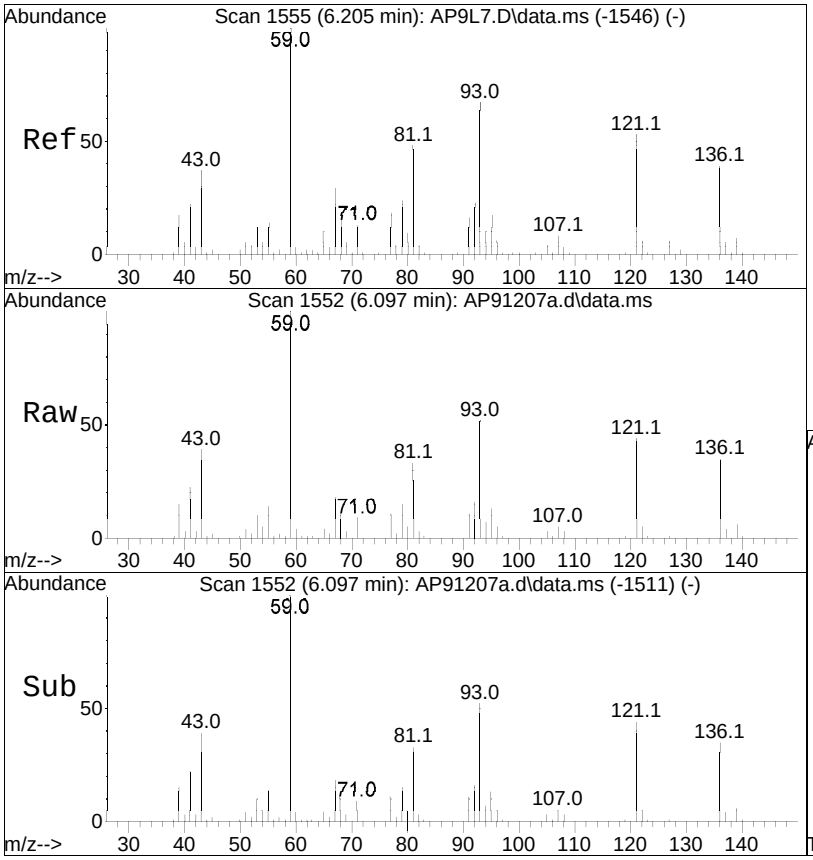


#31
2-Chloroaniline
Concen: 54.29 ug/ml
RT: 5.645 min Scan# 1393
Delta R.T. -0.009 min
Lab File: AP91207a.d
Acq: 7 Dec 2018 1:02 pm

Tgt Ion:127 Resp: 170295

Ion	Ratio	Lower	Upper
127	100		
129	32.2	26.0	39.0
65	20.8	22.9	34.3#

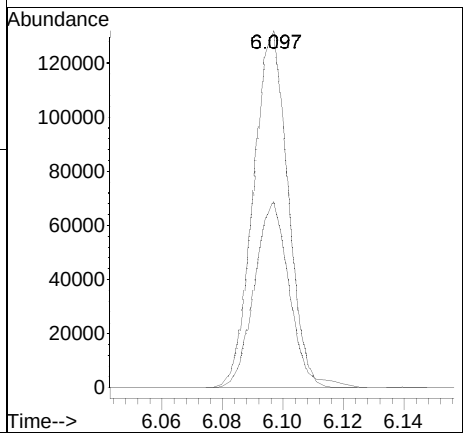


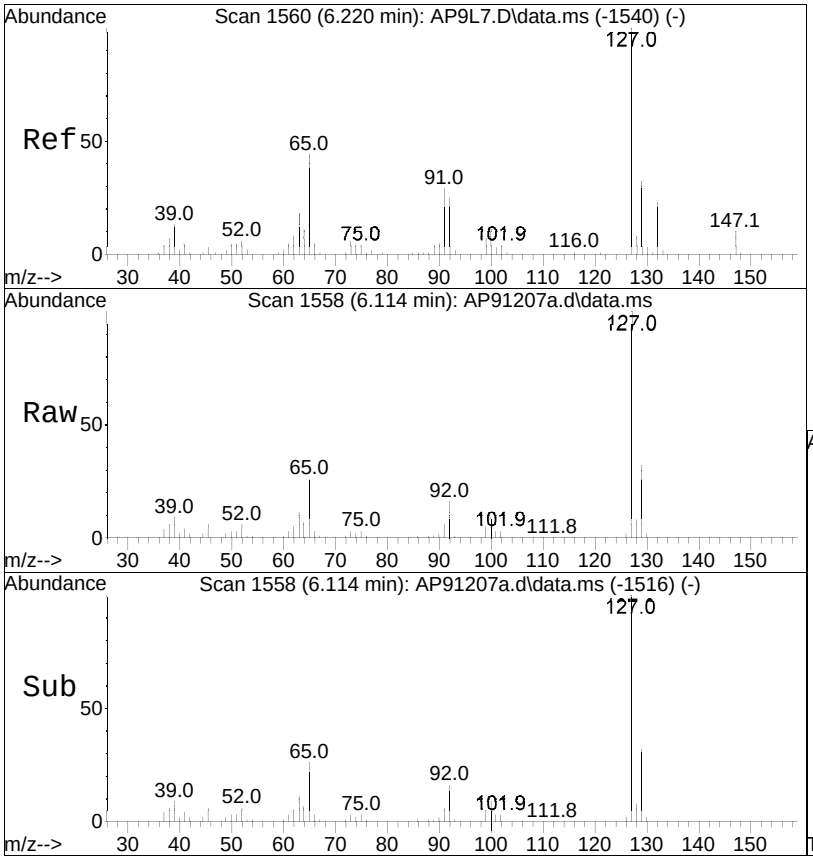


#55
a-Terpineol
Concen: 45.71 ug/ml
RT: 6.097 min Scan# 1552
Delta R.T. -0.008 min
Lab File: AP91207a.d
Acq: 7 Dec 2018 1:02 pm

Tgt Ion: 59 Resp: 103732

Ion	Ratio	Lower	Upper
59	100		
93	53.4	39.4	59.0

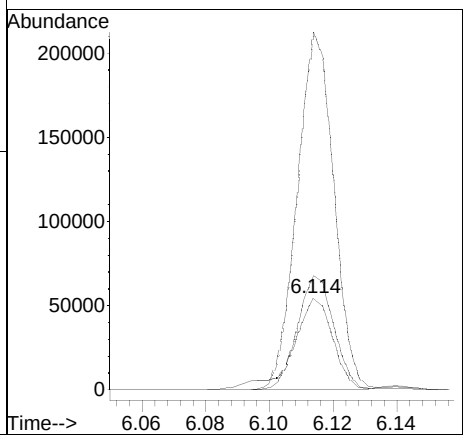


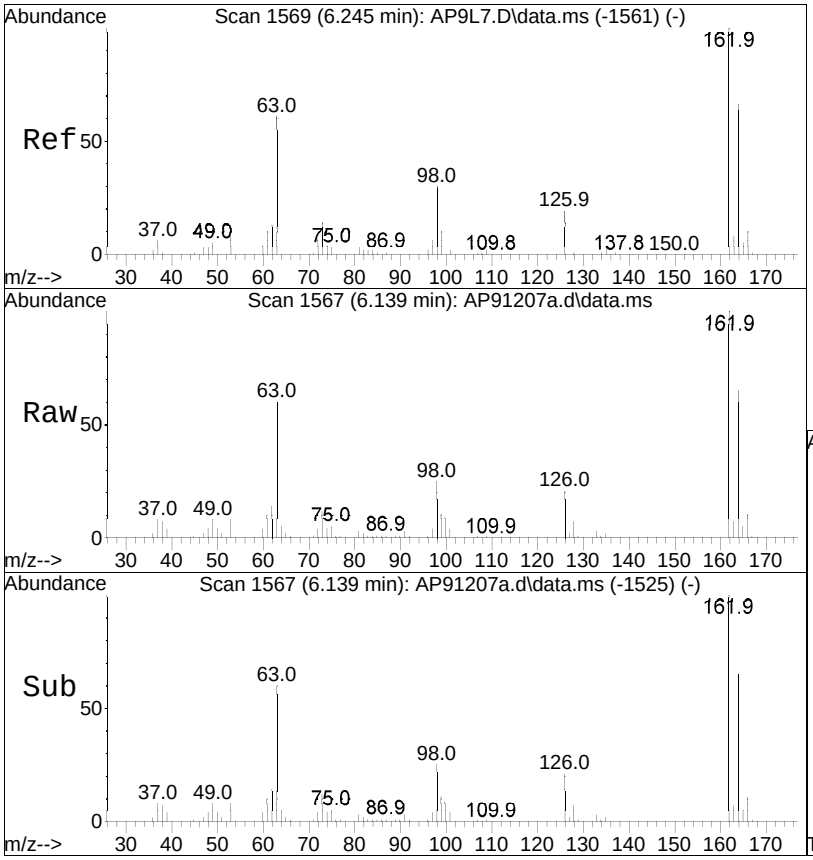


#56
3-Chloroaniline
Concen: 45.13 ug/ml
RT: 6.114 min Scan# 1558
Delta R.T. -0.006 min
Lab File: AP91207a.d
Acq: 7 Dec 2018 1:02 pm

Tgt Ion: 65 Resp: 47418

Ion	Ratio	Lower	Upper
65	100		
127	355.6	216.4	324.6#
129	113.7	68.8	103.2#

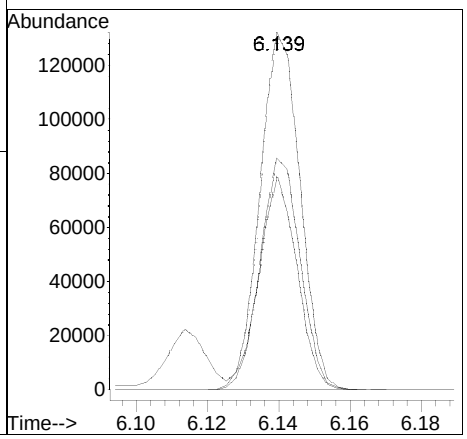


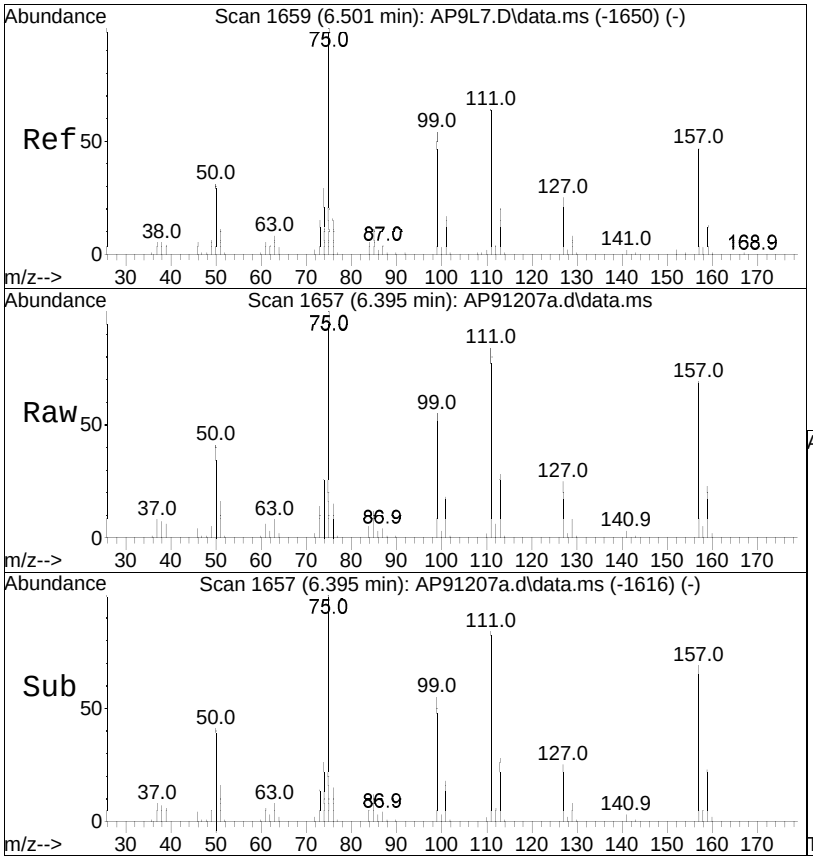


#57
2,6-Dichlorophenol
Concen: 59.66 ug/ml
RT: 6.139 min Scan# 1567
Delta R.T. -0.006 min
Lab File: AP91207a.d
Acq: 7 Dec 2018 1:02 pm

Tgt Ion:162 Resp: 102932

Ion	Ratio	Lower	Upper
162	100		
164	64.5	50.2	75.4
63	56.5	56.6	85.0#

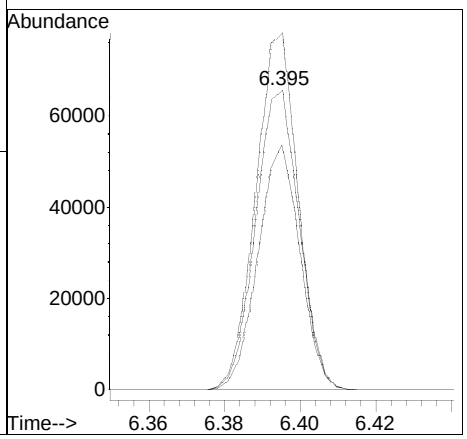


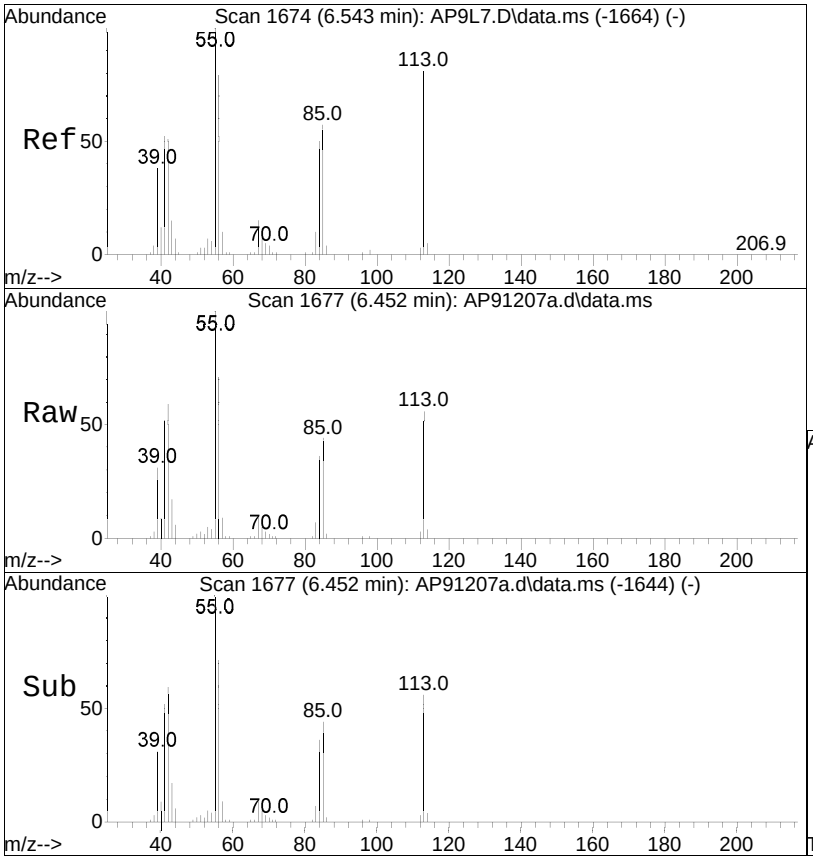


#58
1-chloro-2-nitrobenzene
Concen: 55.59 ug/ml
RT: 6.395 min Scan# 1657
Delta R.T. -0.009 min
Lab File: AP91207a.d
Acq: 7 Dec 2018 1:02 pm

Tgt Ion:111 Resp: 52078

Ion	Ratio	Lower	Upper
111	100		
157	79.0	59.4	89.2
75	116.2	105.4	158.0

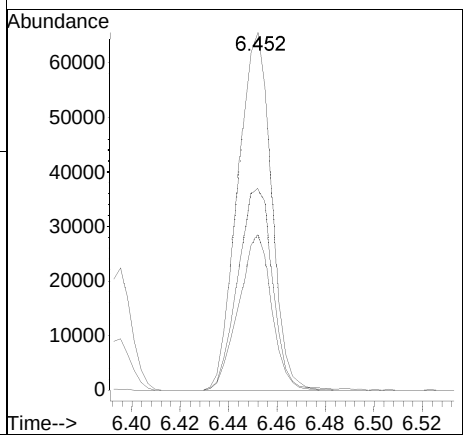


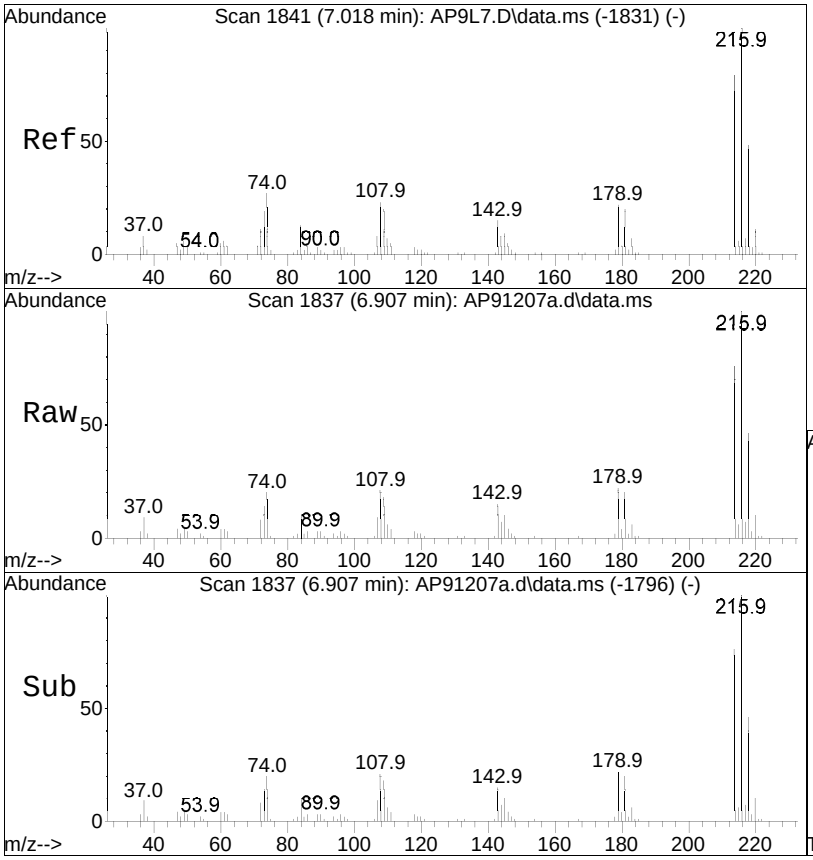


#59
Caprolactam
Concen: 50.25 ug/ml
RT: 6.452 min Scan# 1677
Delta R.T. -0.031 min
Lab File: AP91207a.d
Acq: 7 Dec 2018 1:02 pm

Tgt Ion: 55 Resp: 63499

Ion	Ratio	Lower	Upper
55	100		
85	42.3	31.3	46.9
113	57.6	35.4	53.0#

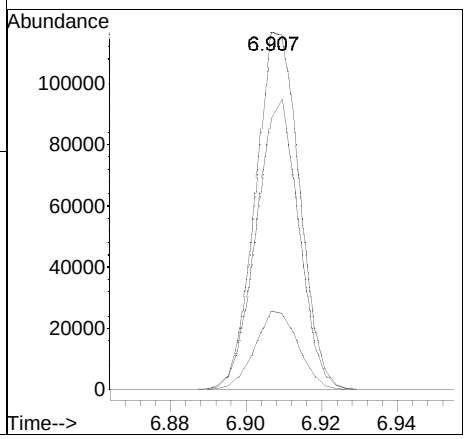


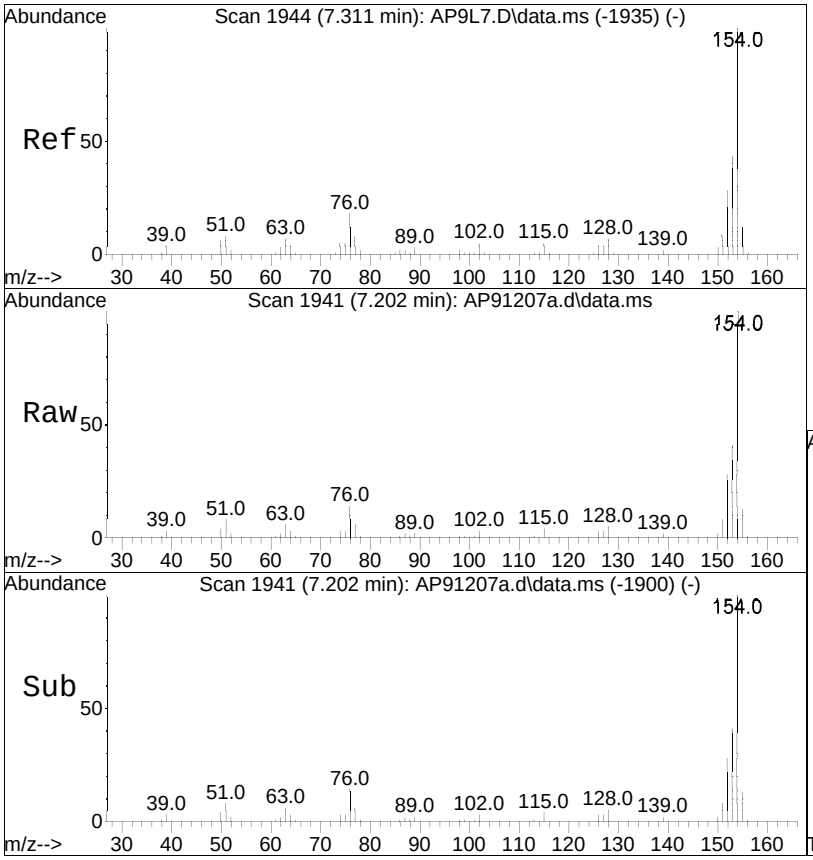


#60
1,2,4,5-Tetrachlorobenzene
Concen: 57.87 ug/ml
RT: 6.907 min Scan# 1837
Delta R.T. -0.008 min
Lab File: AP91207a.d
Acq: 7 Dec 2018 1:02 pm

Tgt Ion:216 Resp: 93617

Ion	Ratio	Lower	Upper
216	100		
214	78.9	63.1	94.7
179	21.7	19.4	29.0

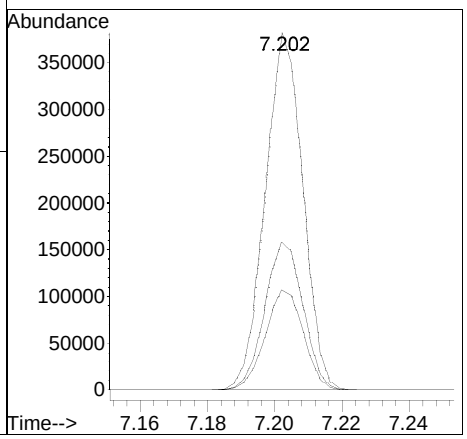


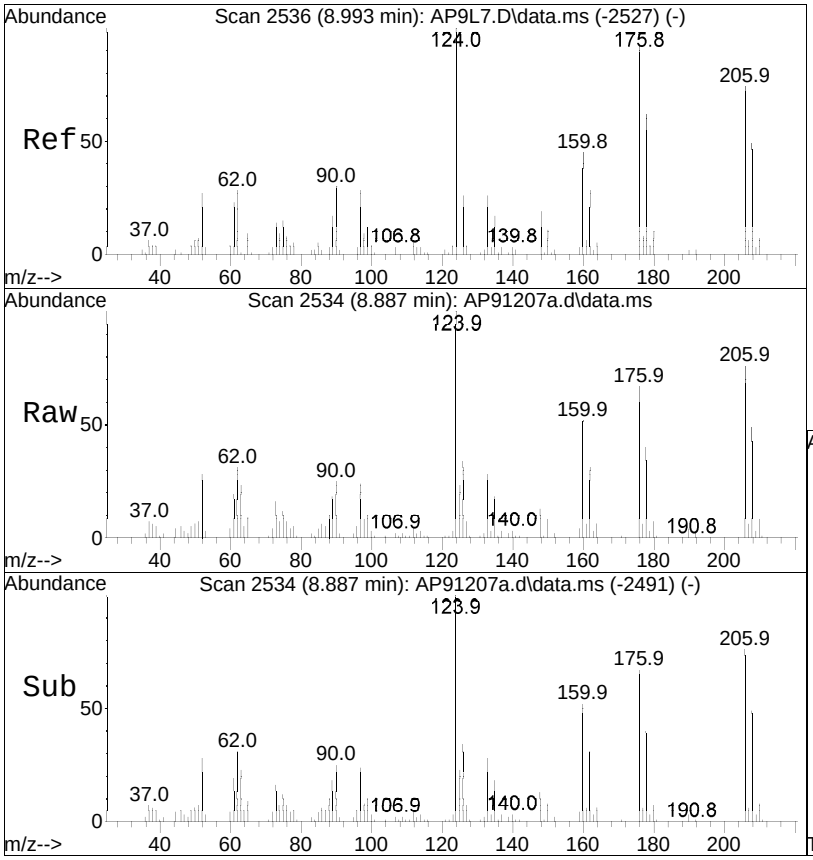


#61
Biphenyl
Concen: 56.45 ug/ml
RT: 7.202 min Scan# 1941
Delta R.T. -0.009 min
Lab File: AP91207a.d
Acq: 7 Dec 2018 1:02 pm

Tgt Ion:154 Resp: 295004

Ion	Ratio	Lower	Upper
154	100		
153	42.2	33.0	49.6
152	28.5	21.7	32.5

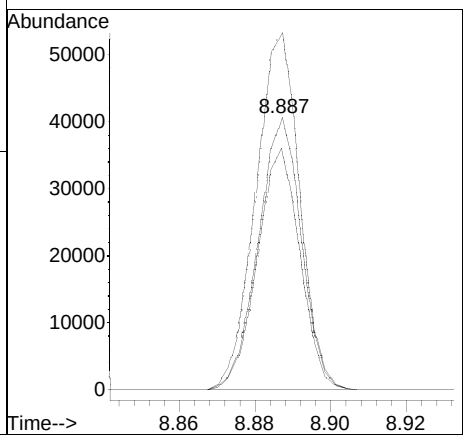


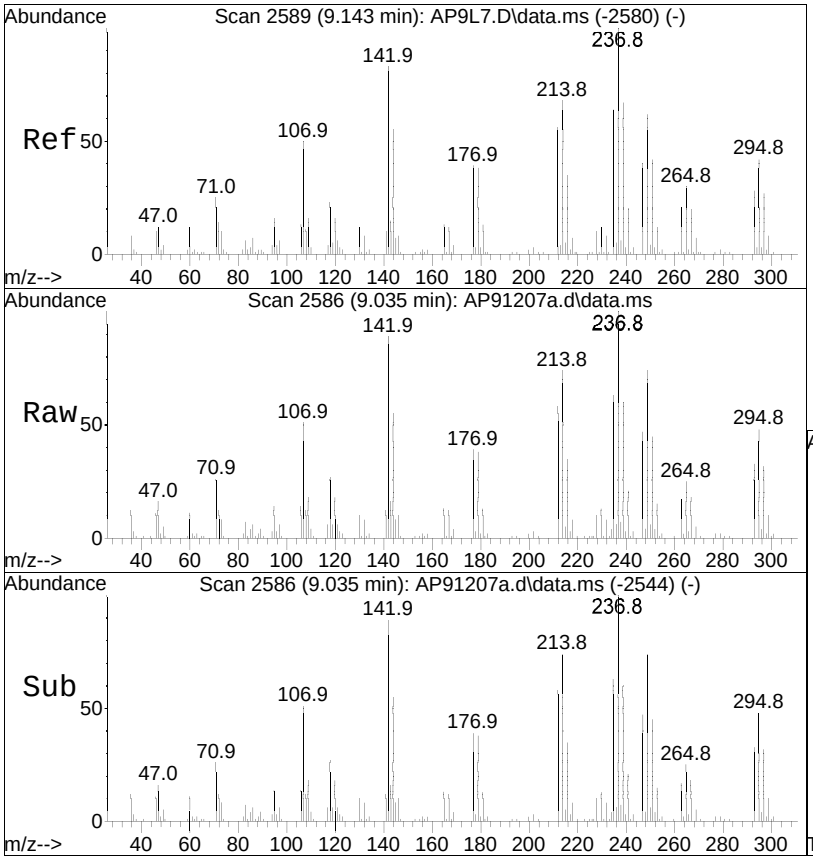


#83
Dichloran
Concen: 68.63 ug/ml
RT: 8.887 min Scan# 2534
Delta R.T. -0.003 min
Lab File: AP91207a.d
Acq: 7 Dec 2018 1:02 pm

Tgt Ion:206 Resp: 31977

Ion	Ratio	Lower	Upper
206	100		
176	87.8	100.1	150.1#
124	133.5	118.6	177.8

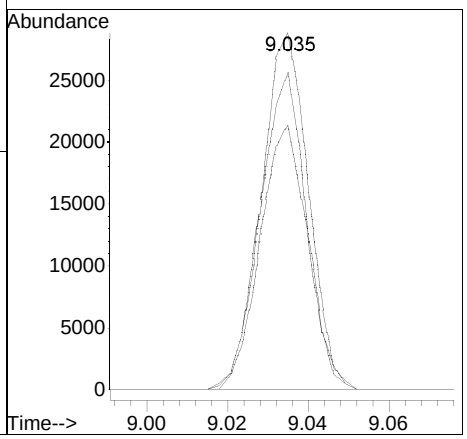


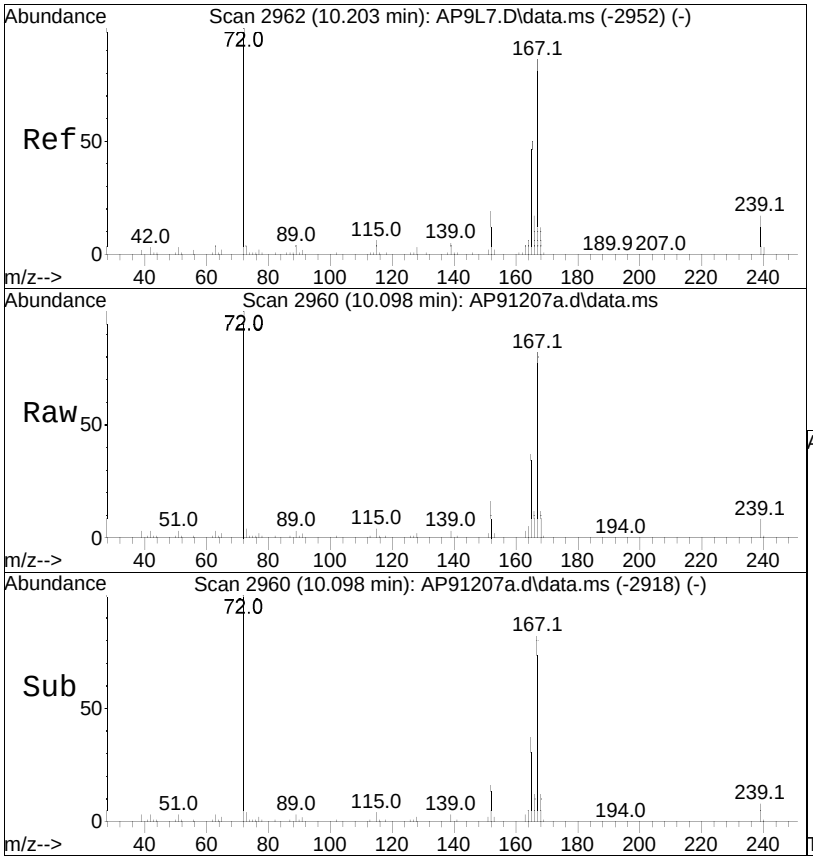


#84
Pentachloronitrobenzene
Concen: 55.44 ug/ml
RT: 9.035 min Scan# 2586
Delta R.T. -0.006 min
Lab File: AP91207a.d
Acq: 7 Dec 2018 1:02 pm

Tgt Ion:237 Resp: 23320

Ion	Ratio	Lower	Upper
237	100		
142	87.5	66.1	99.1
214	75.1	56.3	84.5

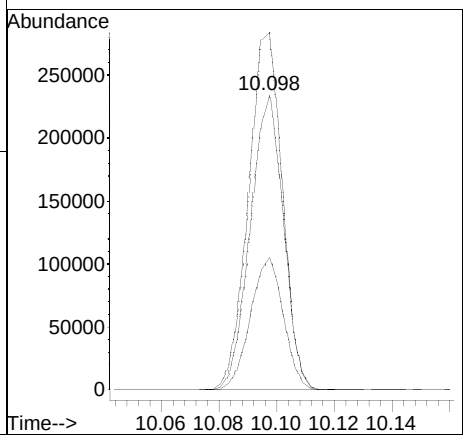




#98
Diphenamid
Concen: 58.79 ug/ml
RT: 10.098 min Scan# 2960
Delta R.T. -0.005 min
Lab File: AP91207a.d
Acq: 7 Dec 2018 1:02 pm

Tgt Ion:167 Resp: 185666

Ion	Ratio	Lower	Upper
167	100		
72	123.7	108.1	162.1
165	44.8	41.1	61.7



Manual Integration Report

Data Path	: I:\8270\SV103\181207a\	QMethod	: FS181204nSV103.m
Data File	: AP91207a.d	Operator	: SV103:als
Date Inj'd	: 12/7/2018 1:02 pm	Instrument	: SV103
Sample	: wg1186894-4,32,,AP9 CCV Lo	Quant Date	: 12/7/2018 1:33 pm

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV103\181207a\
Data File : ADP1207b.d
Acq On : 7 Dec 2018 2:18 pm
Operator : SV103:als
Sample : wg1186894-5,32,,ADP CCV Lot# 7925
Misc : wg1186894,wg1184908,ical15305
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Dec 07 14:39:38 2018
Quant Method : I:\8270\SV103\181207a\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 07 13:56:22 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
32	I	IS3_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	122	0.00
33	T	n-Decane	0.976	1.474	-51.0#	182	0.00
85	I	IS3_Acenaphthene-d10	1.000	1.000	0.0	129	0.00
86	T	Atrazine	0.310	0.317	-2.3	127	0.00
99	I	IS3_Phenanthrene-d10	1.000	1.000	0.0	118	0.00
100	T	n-Octadecane	0.386	0.562	-45.6#	172	0.00
101	T	Parathion	* 50.000	59.746	-19.5	147	0.00
102	T	3,3'-Dimethylbenzidine	0.671	0.822	-22.5#	139	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181207a\
Data File : ADP1207b.d
Acq On : 7 Dec 2018 2:18 pm
Operator : SV103:als
Sample : wg1186894-5,32,,ADP CCV Lot# 7925
Misc : wg1186894,wg1184908,ical15305
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Dec 07 14:39:38 2018
Quant Method : I:\8270\SV103\181207a\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 07 13:56:22 2018
Response via : Initial Calibration

Sub List : ADPical - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.795	152	65861	40.000	ug/ml	0.00
85) IS3_Acenaphthene-d10	7.748	164	136449	40.000	ug/ml	0.00
99) IS3_Phenanthrene-d10	9.188	188	238144	40.000	ug/ml	0.00
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	4.676	57	121361	75.537	ug/ml	88
86) Atrazine	8.961	200	54097	51.173	ug/ml	95
100) n-Octadecane	9.154	57	167368	72.881	ug/ml	93
101) Parathion	9.975	109	48031	59.746	ug/ml	96
102) 3,3'-Dimethylbenzidine	11.356	212	244596	61.259	ug/ml	98

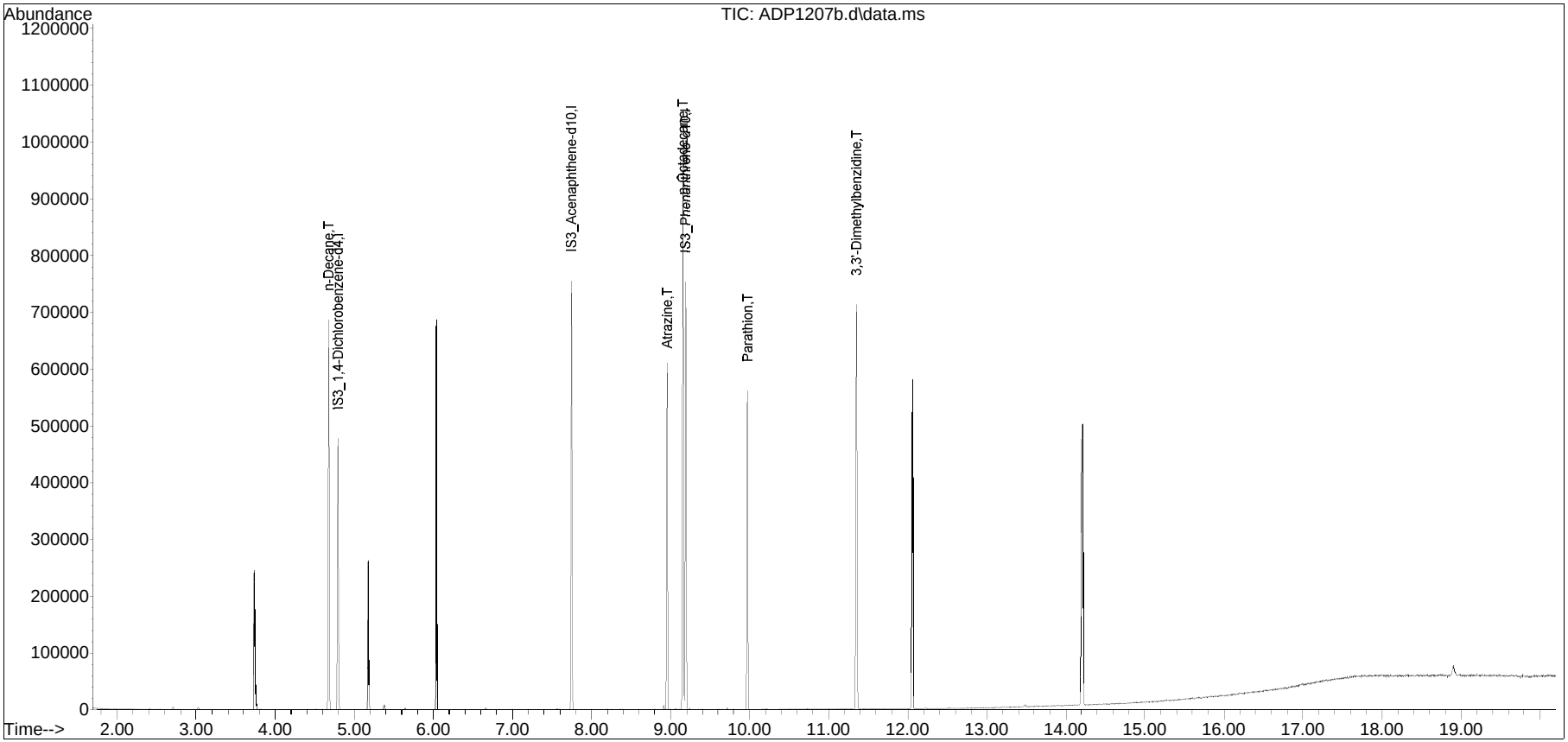
(#) = qualifier out of range (m) = manual integration (+) = signals summed

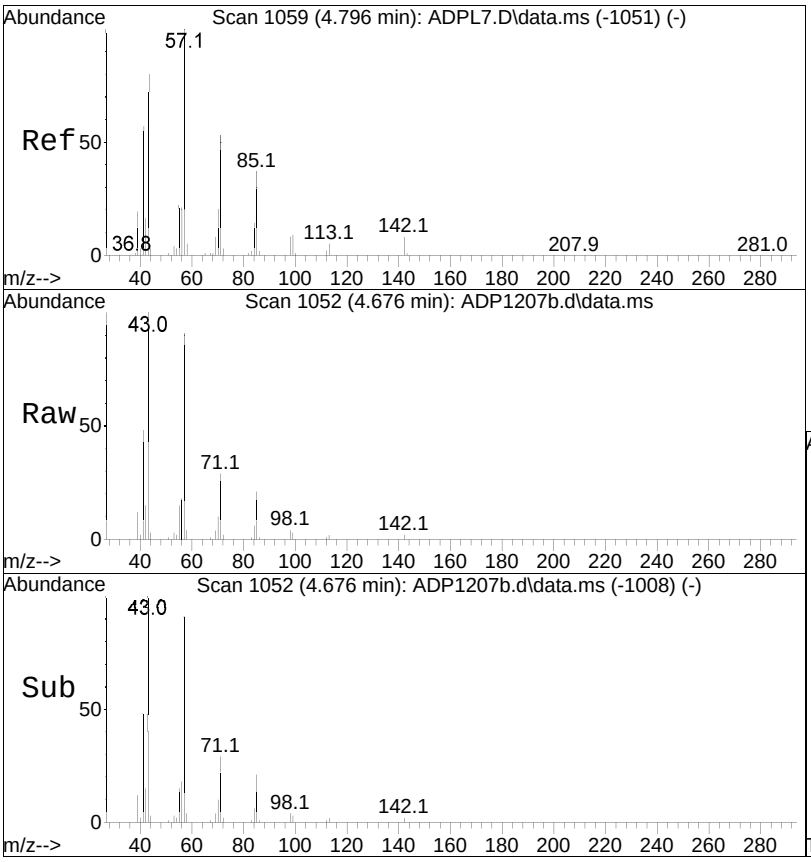
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181207a\
Data File : ADP1207b.d
Acq On : 7 Dec 2018 2:18 pm
Operator : SV103:als
Sample : wg1186894-5,32,,ADP CCV Lot# 7925
Misc : wg1186894,wg1184908,ical15305
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Dec 07 14:39:38 2018
Quant Method : I:\8270\SV103\181207a\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Fri Dec 07 13:56:22 2018
Response via : Initial Calibration

Sub List : ADPical - ADP sublist

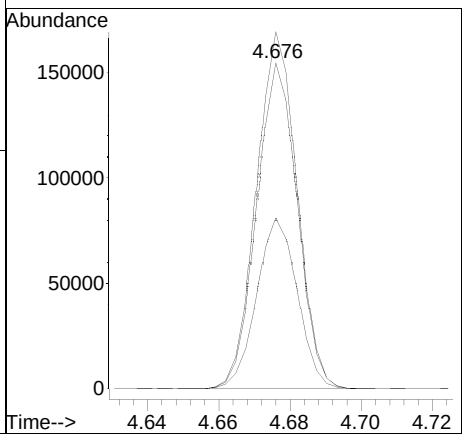


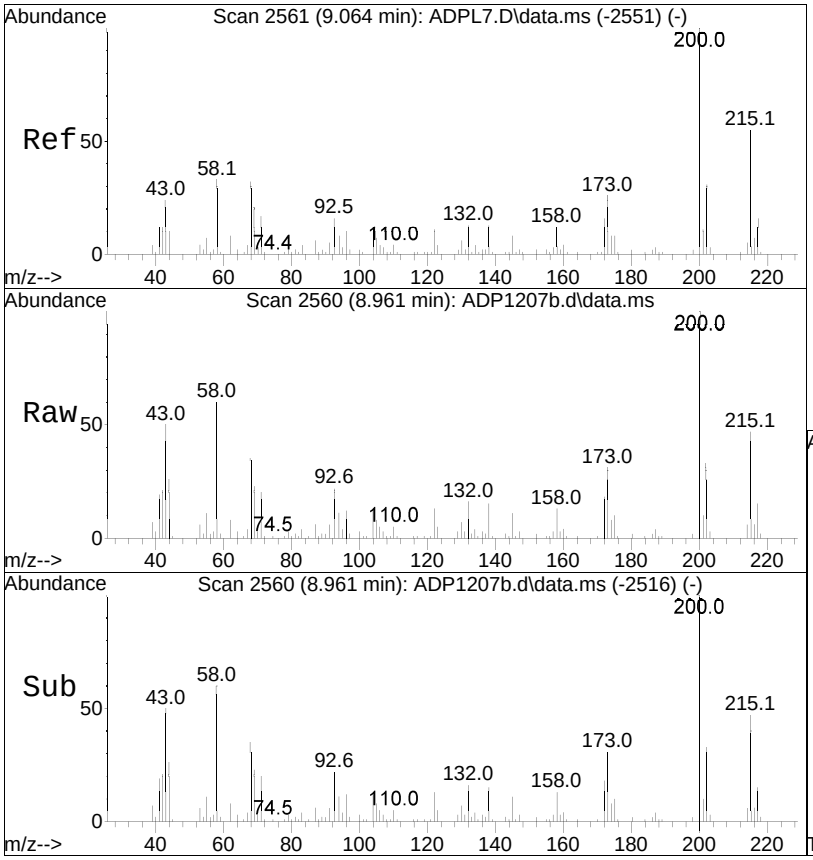


#33
n-Decane
Concen: 75.54 ug/ml
RT: 4.676 min Scan# 1052
Delta R.T. -0.000 min
Lab File: ADP1207b.d
Acq: 7 Dec 2018 2:18 pm

Tgt Ion: 57 Resp: 121361

Ion	Ratio	Lower	Upper
57	100		
43	109.9	77.9	116.9
41	52.8	36.9	55.3

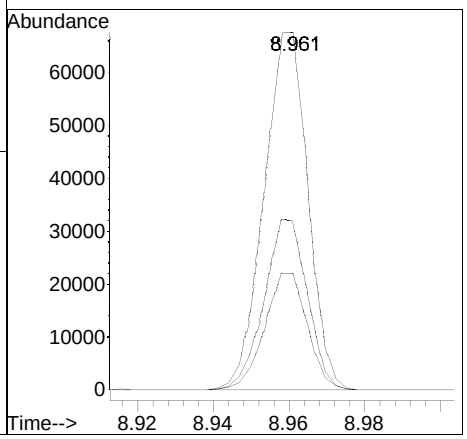


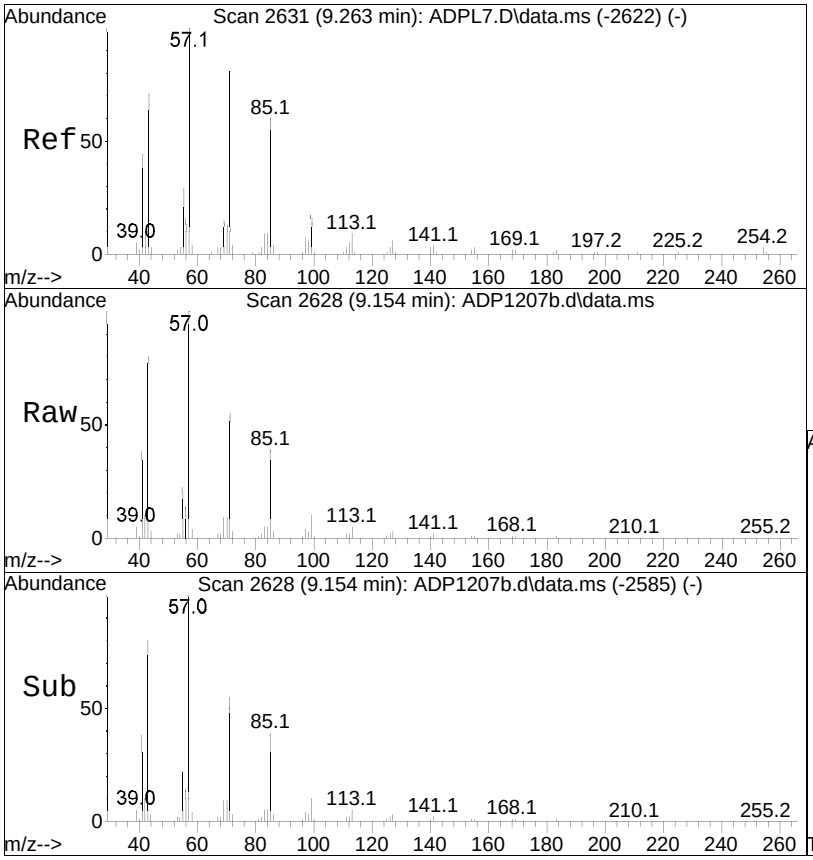


#86
Atrazine
Concen: 51.17 ug/ml
RT: 8.961 min Scan# 2560
Delta R.T. -0.000 min
Lab File: ADP1207b.d
Acq: 7 Dec 2018 2:18 pm

Tgt Ion:200 Resp: 54097

Ion	Ratio	Lower	Upper
200	100		
202	31.9	24.9	37.3
215	47.0	34.0	51.0

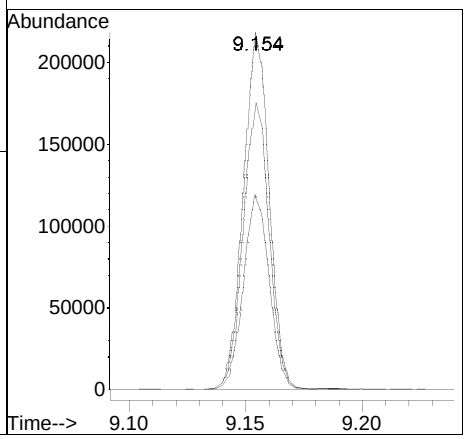


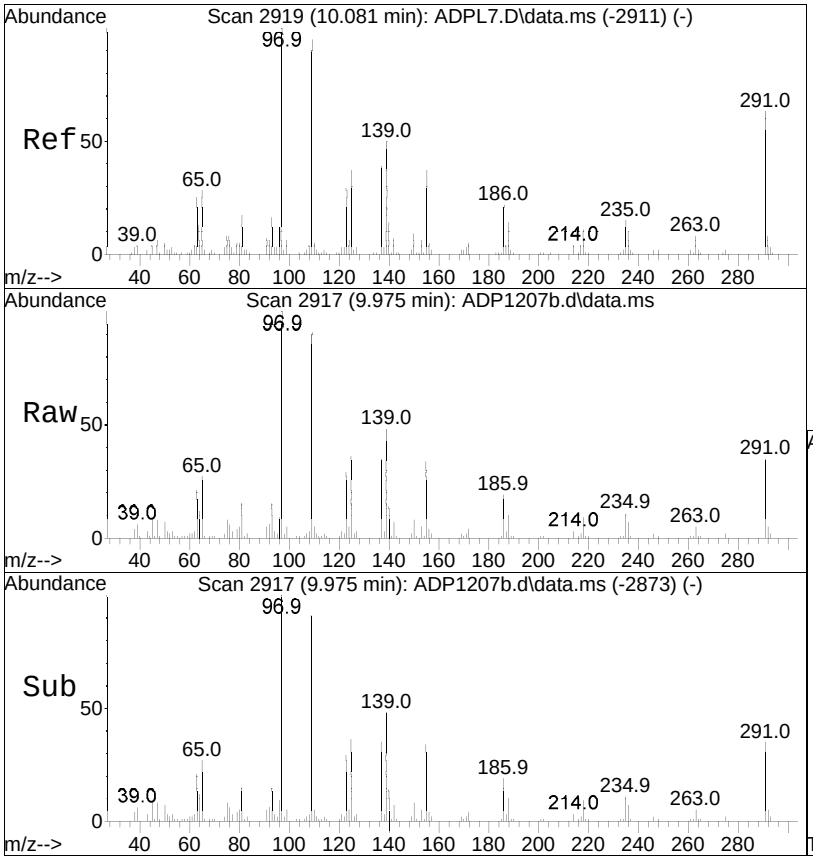


#100
n-Octadecane
Concen: 72.88 ug/ml
RT: 9.154 min Scan# 2628
Delta R.T. -0.003 min
Lab File: ADP1207b.d
Acq: 7 Dec 2018 2:18 pm

Tgt Ion: 57 Resp: 167368

Ion	Ratio	Lower	Upper
57	100		
43	80.7	56.7	85.1
71	54.7	42.8	64.2

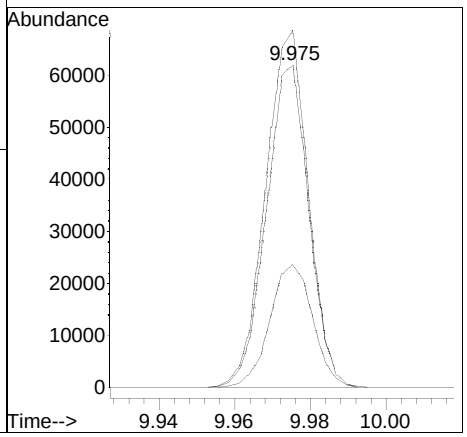


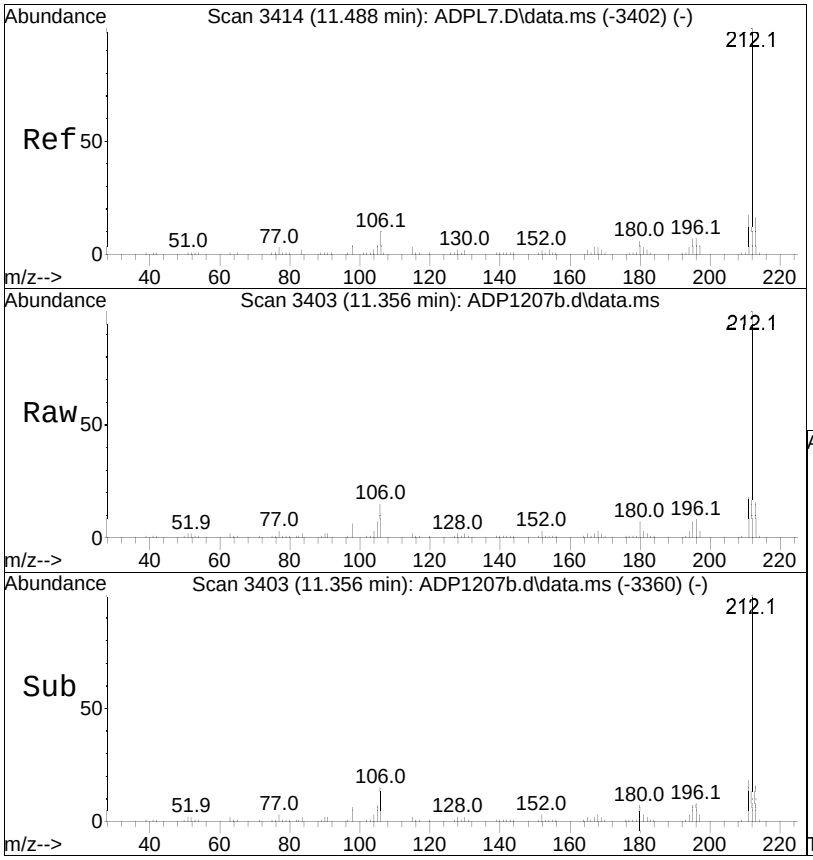


#101
Parathion
Concen: 59.75 ug/ml
RT: 9.975 min Scan# 2917
Delta R.T. -0.000 min
Lab File: ADP1207b.d
Acq: 7 Dec 2018 2:18 pm

Tgt Ion:109 Resp: 48031

Ion	Ratio	Lower	Upper
109	100		
97	111.5	85.8	128.8
291	38.8	29.8	44.8

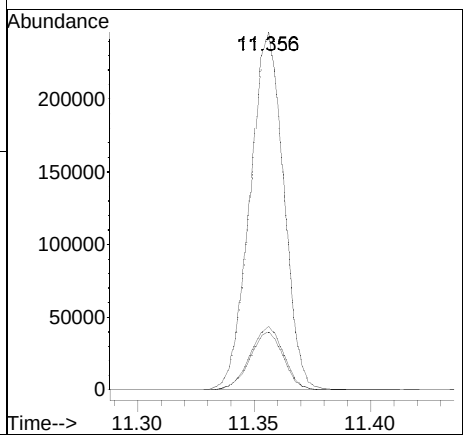




#102
3,3'-Dimethylbenzidine
Concen: 61.26 ug/ml
RT: 11.356 min Scan# 3403
Delta R.T. -0.003 min
Lab File: ADP1207b.d
Acq: 7 Dec 2018 2:18 pm

Tgt Ion:212 Resp: 244596

Ion	Ratio	Lower	Upper
212	100		
211	17.7	13.5	20.3
213	16.1	13.4	20.0



Manual Integration Report

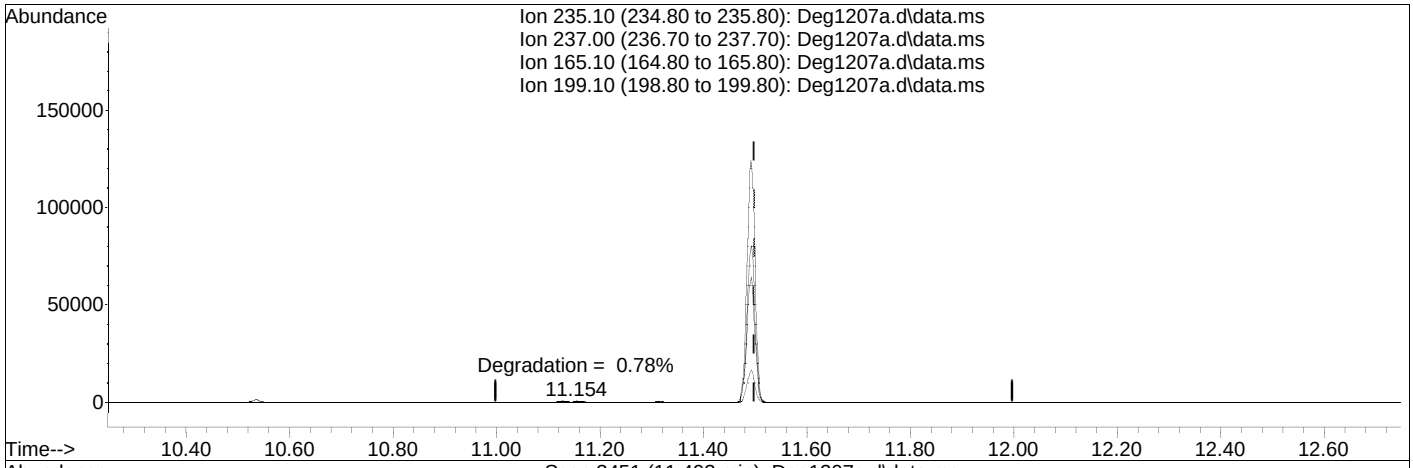
Data Path	: I:\8270\SV103\181207a\	QMethod	: FS181204nSV103.m
Data File	: ADP1207b.d	Operator	: SV103:als
Date Inj'd	: 12/7/2018 2:18 pm	Instrument	: SV103
Sample	: wg1186894-5,32,,ADP CCV Lo	Quant Date	: 12/7/2018 2:39 pm

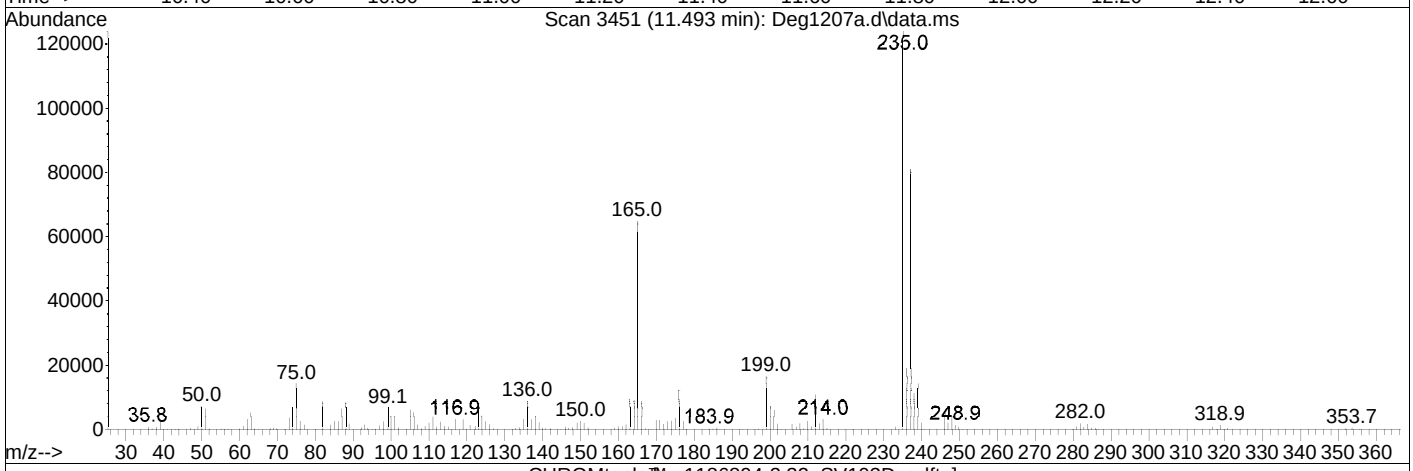
There are no manual integrations or false positives in this file.

Quantitation Report (Qedit)

Data Path : I:\8270\SV103\181207a\
Data File : Deg1207a.d
Acq On : 7 Dec 2018 12:01 pm
Operator : SV103:jg
Sample : wg1186894-2,32,,SV103Degdftp
Misc : wg1186894,,ical15305
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Dec 07 12:35:01 2018
Quant Method : I:\8270\SV103\181207a\dftppSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Nov 07 09:14:14 2017
Response via : Initial Calibration





CHROMtools™ [wg1186894-2,32,,SV103Degdftp]

(6) ddt (T)

11.493min (-0.005) 0.00

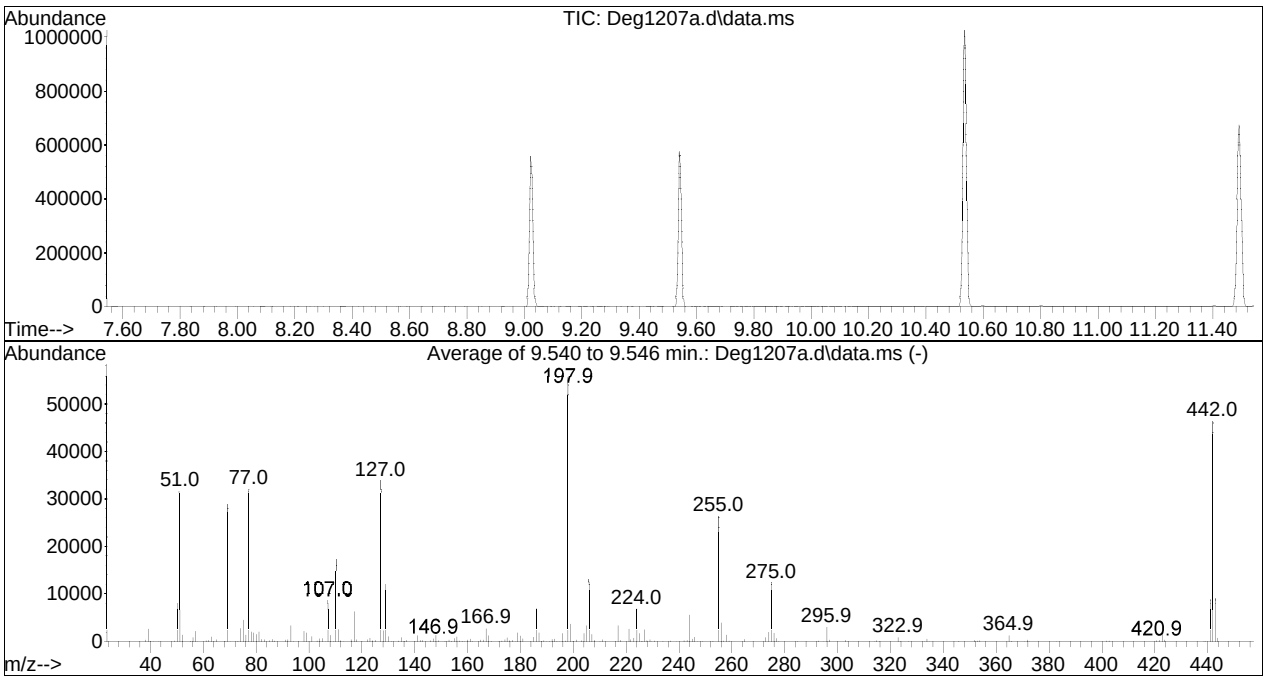
response 127869

Ion	Exp%	Act%
235.10	100.00	100.00
237.00	62.40	64.06
165.10	55.50	51.63
199.10	14.50	12.95

Data Path : I:\8270\SV103\181207a\
Data File : Deg1207a.d
Acq On : 7 Dec 2018 12:01 pm
Operator : SV103:jg
Sample : wg1186894-1,32,,SV103Degdftp
Misc : wg1186894,,ical15305
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV103\181207a\FS181204nSV103.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Fri Dec 07 13:56:22 2018



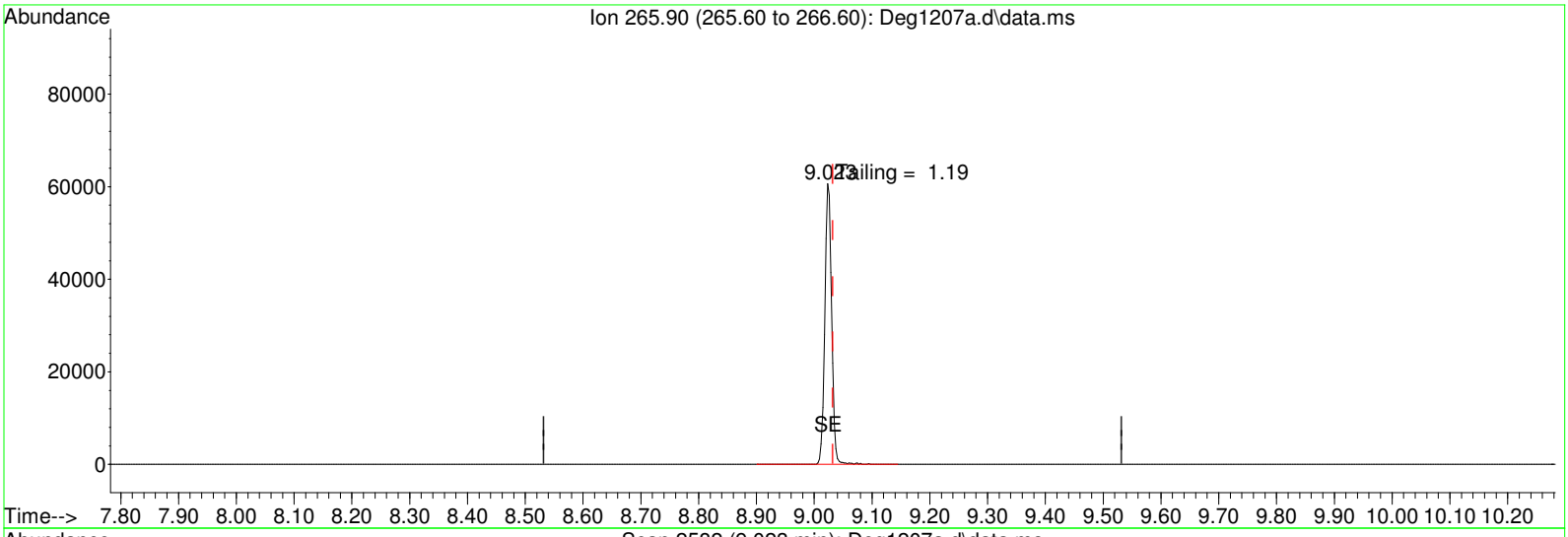
Spectrum Information: Average of 9.540 to 9.546 min.

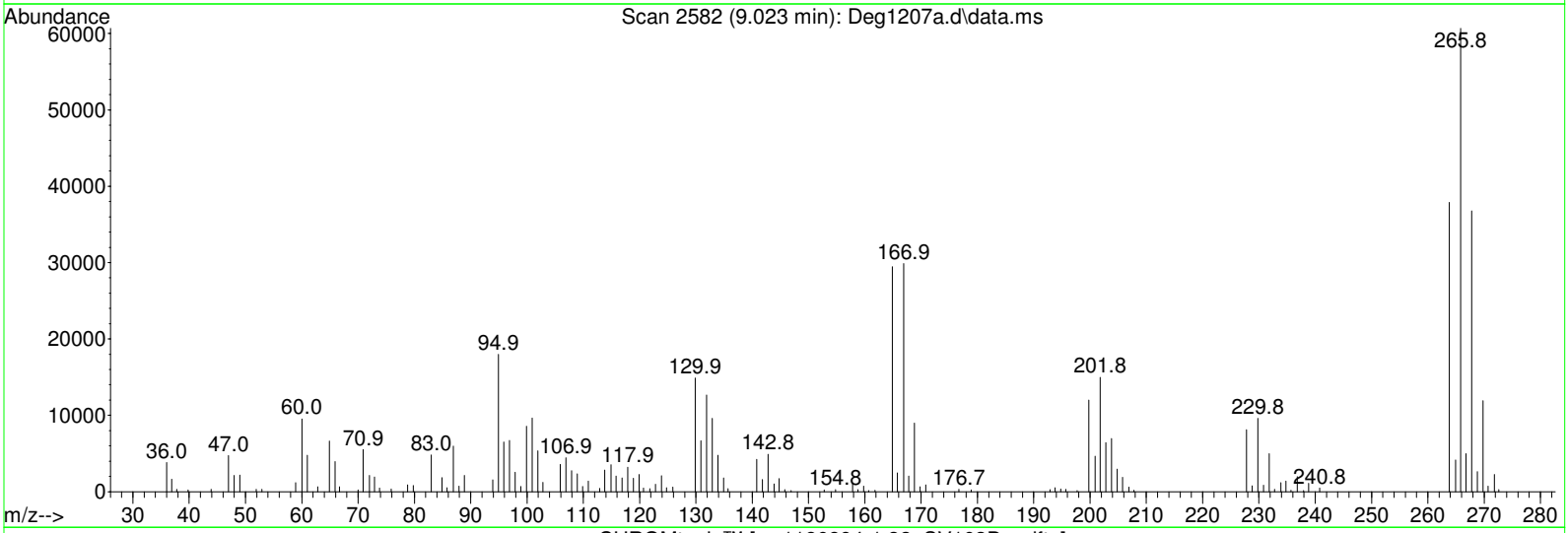
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	56.9	31616	PASS
68	69	0.00	2	0.8	216	PASS
70	69	0.00	2	0.4	111	PASS
127	198	10	80	60.8	33768	PASS
197	198	0.00	2	0.5	282	PASS
198	198	100	100	100.0	55536	PASS
199	198	5	9	6.7	3723	PASS
275	198	10	60	22.4	12426	PASS
365	198	1	100	2.5	1383	PASS
441	442	0.01	24	19.2	8893	PASS
442	198	50	100	83.5	46384	PASS
443	442	15	24	19.5	9066	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV103\181207a\
Data File : Deg1207a.d
Acq On : 7 Dec 2018 12:01 pm
Operator : SV103:jg
Sample : wg1186894-1,32,,SV103Degdftp
Misc : wg1186894,,ical15305
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Dec 07 12:35:01 2018
Quant Method : I:\8270\SV103\181207a\dftppSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Nov 07 09:14:14 2017
Response via : Initial Calibration





CHROMtools™ [wg1186894-1,32,,SV103Degdftp]

(1) pentachlorophenol (T)

9.023min (-0.009) 0.00

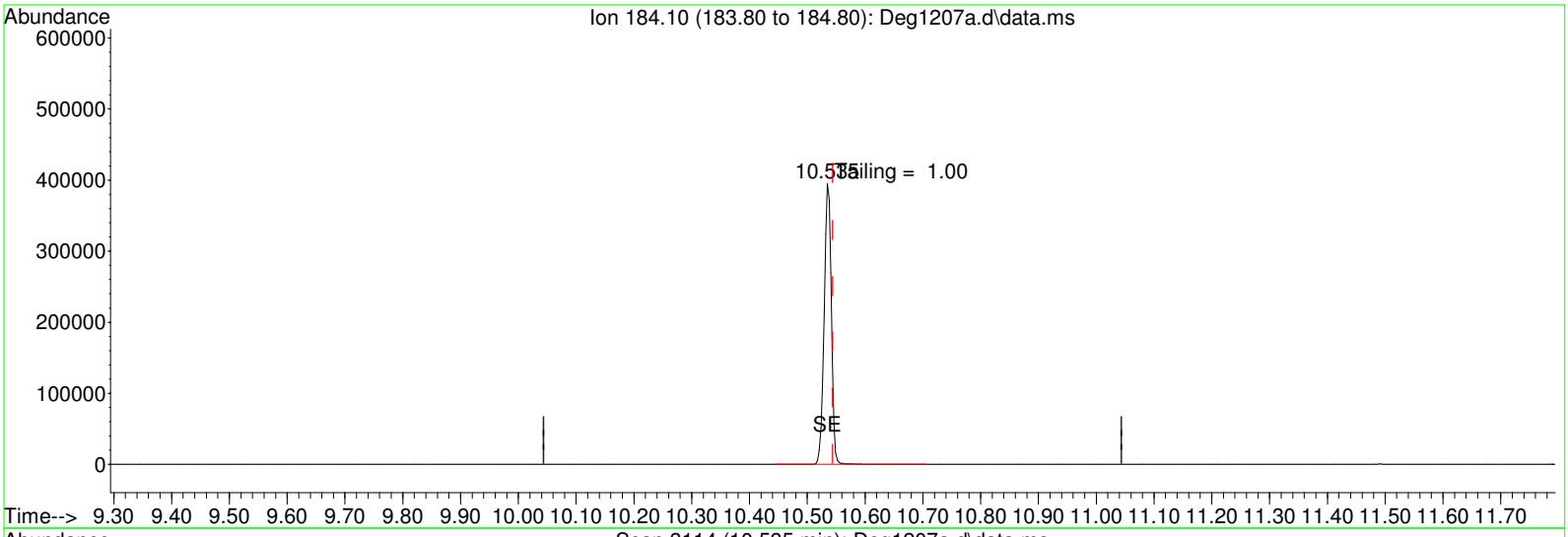
response 49973

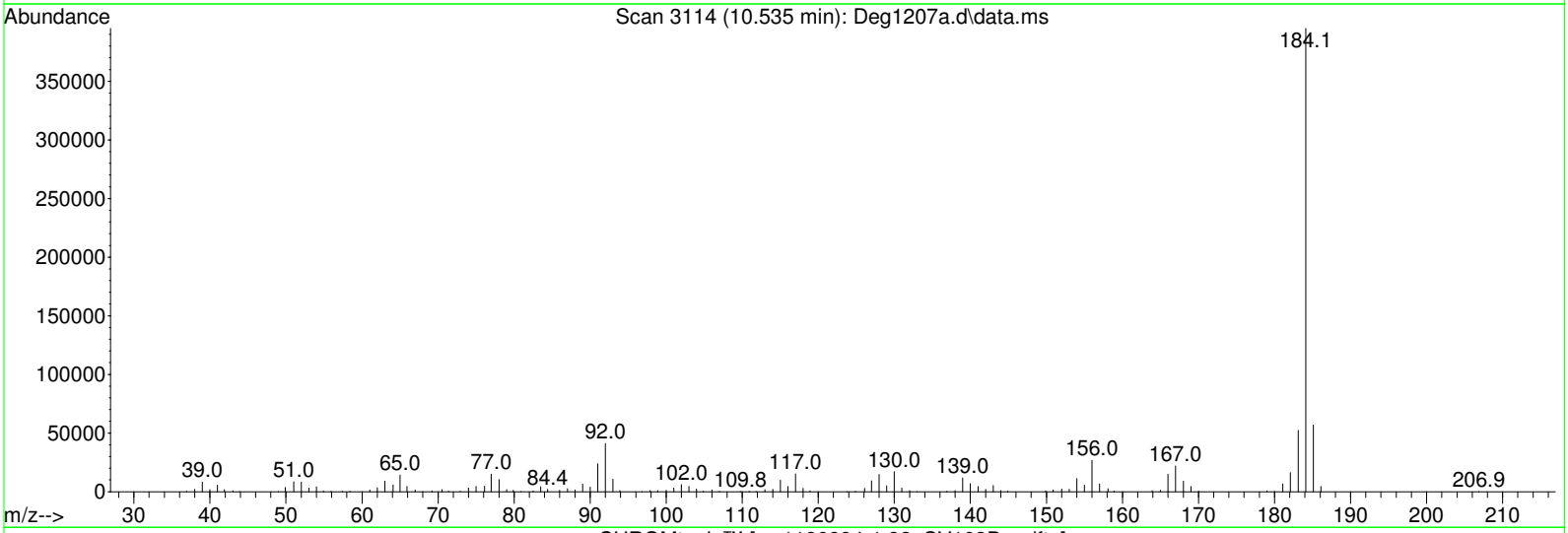
Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV103\181207a\
Data File : Deg1207a.d
Acq On : 7 Dec 2018 12:01 pm
Operator : SV103:jg
Sample : wg1186894-1,32,,SV103Degdftp
Misc : wg1186894,,ical15305
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Dec 07 12:35:01 2018
Quant Method : I:\8270\SV103\181207a\dftppSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Nov 07 09:14:14 2017
Response via : Initial Calibration





CHROMtools™ [wg1186894-1,32,,SV103Degdftp]

(3) benzidine (T)

10.535min (-0.009) 0.00

response 341450

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV103\181209\
Data File : ABN1209.d
Acq On : 9 Dec 2018 4:59 pm
Operator : SV103:rc
Sample : wg1187317-3,32,,ABN CCV Lot# 7925
Misc : wg1187317,,ICAL15305
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Dec 10 08:06:28 2018
Quant Method : I:\8270\SV103\181209\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 08 12:55:30 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	IS1_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	76	0.00
2	t	n-Nitrosodimethylamine	0.886	0.721	18.6	68	0.00
3	t	Pyridine	1.385	1.261	9.0	71	0.00
4	S	2-Fluorophenol	1.328	1.299	2.2	76	0.00
5	T	Aniline	2.146	2.016	6.1	75	0.00
6	t	2-Chlorophenol	1.469	1.441	1.9	75	0.00
7	S	Phenol-d6	1.669	1.551	7.1	73	0.00
8	T	Phenol	1.963	1.599	18.5	65	0.00
9	T	Bis(2-chloroethyl)ether	1.398	1.239	11.4	72	0.00
10	T	1,3-Dichlorobenzene	1.546	1.485	3.9	74	0.00
11	T	1,4-Dichlorobenzene	1.595	1.515	5.0	74	0.00
12	T	1,2-Dichlorobenzene	1.517	1.439	5.1	74	0.00
13	t	Benzyl alcohol	1.163	1.000	14.0	67	0.00
14	T	Bis(2-chloroisopropyl)ether	2.866	2.028	29.2#	62	0.00
15	T	2-Methylphenol	1.310	1.270	3.1	75	0.00
16	T	Hexachloroethane	0.610	0.570	6.6	74	0.00
17	T	n-Nitrosodi-n-propylamine	1.038	0.841	19.0	63	0.00
18	T	3-Methylphenol/4-Methylphen	1.366	1.334	2.3	75	0.00
19	S	Nitrobenzene-d5	1.544	1.313	15.0	66	0.00
20	T	Nitrobenzene	1.561	1.296	17.0	65	0.00
21	T	Isophorone	2.651	2.405	9.3	70	0.00
22	T	2-Nitrophenol	0.757	0.765	-1.1	73	0.00
23	T	2,4-Dimethylphenol	1.321	1.299	1.7	75	0.00
24	T	Bis(2-chloroethoxy)methane	1.699	1.562	8.1	72	0.00
25	T	2,4-Dichlorophenol	1.083	1.098	-1.4	75	0.00
26	T	1,2,4-Trichlorobenzene	1.189	1.127	5.2	72	0.00
34	I	IS1_Naphthalene-d8	1.000	1.000	0.0	73	0.00
35	T	Naphthalene	0.983	0.976	0.7	74	0.00
36	T	Benzoic Acid	0.249	0.255	-2.4	74	0.00
37	T	4-Chloroaniline	0.124	0.103	16.9	63	0.00
38	T	Hexachlorobutadiene	0.125	0.126	-0.8	73	0.00
39	T	p-Chloro-m-cresol	0.269	0.259	3.7	69	0.00
40	T	2-Methylnaphthalene	0.649	0.628	3.2	71	0.00
41	T	1-Methylnaphthalene	0.206	0.180	12.6	64	0.00
42	T	Hexachlorocyclopentadiene	0.153	0.169	-10.5	77	0.00
43	T	2,4,6-Trichlorophenol	0.166	0.169	-1.8	70	0.00
44	T	2,4,5-Trichlorophenol	0.174	0.182	-4.6	71	0.00
45	S	2-Fluorobiphenyl	0.623	0.638	-2.4	73	0.00

Data Path : I:\8270\SV103\181209\
Data File : ABN1209.d
Acq On : 9 Dec 2018 4:59 pm
Operator : SV103:rc
Sample : wg1187317-3,32,,ABN CCV Lot# 7925
Misc : wg1187317,,ICAL15305
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Dec 10 08:06:28 2018
Quant Method : I:\8270\SV103\181209\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 08 12:55:30 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
46	T	2-Chloronaphthalene	0.562	0.557	0.9	71	0.00
47	T	2-Nitroaniline	0.201	0.211	-5.0	72	0.00
48	T	1,4-Dinitrobenzene	0.092	0.091	1.1	70	0.00
49	T	1,3-Dinitrobenzene	0.100	0.101	-1.0	69	0.00
50	T	Dimethyl phthalate	0.636	0.626	1.6	69	0.00
51	T	Acenaphthylene	0.926	0.929	-0.3	71	0.00
52	T	2,6-Dinitrotoluene	0.140	0.146	-4.3	69	0.00
53	T	1,2-Dinitrobenzene	0.066	0.066	0.0	71	0.00
62	I	IS1_Acenaphthene-d10	1.000	1.000	0.0	78	0.00
63	T	3-Nitroaniline	0.384	0.373	2.9	71	0.00
64	T	Acenaphthene	1.205	1.054	12.5	70	0.00
65	T	2,4-Dinitrophenol	0.214	0.187	12.6	66	0.00
66	T	Dibenzofuran	1.756	1.578	10.1	70	0.00
67	T	2,4-Dinitrotoluene	0.409	0.387	5.4	68	0.00
68	T	4-Nitrophenol	0.334	0.253	24.3#	59	0.00
69	T	2,3,5,6-Tetrachlorophenol	0.303	0.284	6.3	71	0.00
70	T	2,3,4,6-Tetrachlorophenol	0.307	0.280	8.8	70	0.00
71	T	Diethyl phthalate	1.499	1.310	12.6	68	0.00
72	T	Fluorene	1.412	1.257	11.0	69	0.00
73	T	4-Chlorophenyl phenyl ether	0.610	0.544	10.8	71	0.00
74	T	4-Nitroaniline	0.379	0.375	1.1	71	0.00
75	T	4,6-Dinitro-o-cresol	0.245	0.209	14.7	65	0.00
76	T	NDPA/DPA	1.192	1.070	10.2	69	0.00
77	T	Azobenzene	1.598	1.260	21.2#	63	0.00
78	S	2,4,6-Tribromophenol	0.166	0.164	1.2	73	0.00
79	T	4-Bromophenyl phenyl ether	0.328	0.289	11.9	69	0.00
80	T	Hexachlorobenzene	0.355	0.331	6.8	72	0.00
81	T	Pentachlorophenol	0.225	0.212	5.8	70	0.00
87	I	IS1_Phenanthrene-d10	1.000	1.000	0.0	69	0.00
88	T	Phenanthrene	1.103	1.044	5.3	67	0.00
89	T	Anthracene	1.097	1.095	0.2	69	0.00
90	T	Carbazole	1.017	1.035	-1.8	70	0.00
91	T	Di-n-butylphthalate	1.302	1.336	-2.6	68	0.00
92	T	Fluoranthene	1.080	1.065	1.4	69	0.00
93	T	Benzidine	0.741	0.817	-10.3	78	0.00
94	T	Pyrene	1.120	1.093	2.4	68	0.00
95	S	4-Terphenyl-d14	0.779	0.757	2.8	68	0.00

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV103\181209\
Data File : ABN1209.d
Acq On : 9 Dec 2018 4:59 pm
Operator : SV103:rc
Sample : wg1187317-3,32,,ABN CCV Lot# 7925
Misc : wg1187317,,ICAL15305
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Dec 10 08:06:28 2018
Quant Method : I:\8270\SV103\181209\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 08 12:55:30 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96	T	Butyl benzyl phthalate	0.577	0.596	-3.3	71	0.00
103	I	IS1_Chrysene-d12	1.000	1.000	0.0	69	0.00
104	T	Benzo(a)anthracene	1.177	1.104	6.2	65	0.00
105	T	3,3'-Dichlorobenzidine	0.428	0.470	-9.8	73	0.00
106	T	Chrysene	1.112	1.088	2.2	68	0.00
107	T	Bis(2-ethylhexyl)phthalate	0.930	1.016	-9.2	72	0.00
108	T	Di-n-octylphthalate	1.608	1.812	-12.7	75	0.00
109	T	Benzo(b)fluoranthene	1.078	1.118	-3.7	69	0.00
110	T	Benzo(k)fluoranthene	1.082	1.108	-2.4	70	0.00
111	T	Benzo(a)pyrene	1.045	1.101	-5.4	70	0.00
112	I	IS1_Perylene-d12	1.000	1.000	0.0	70	0.00
113	T	Indeno(1,2,3-cd)pyrene	1.003	0.943	6.0	64	0.00
114	T	Dibenzo(a,h)anthracene	1.025	0.955	6.8	64	0.00
115	T	Benzo(ghi)perylene	1.063	0.971	8.7	63	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181209\
Data File : ABN1209.d
Acq On : 9 Dec 2018 4:59 pm
Operator : SV103:rc
Sample : wg1187317-3,32,,ABN CCV Lot# 7925
Misc : wg1187317,,ICAL15305
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Dec 10 08:06:28 2018
Quant Method : I:\8270\SV103\181209\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 08 12:55:30 2018
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) IS1_1,4-Dichlorobenzen...	4.776	152	67385	40.000	ug/ml		0.00
34) IS1_Naphthalene-d8	6.020	136	288220	40.000	ug/ml		0.00
62) IS1_Acenaphthene-d10	7.733	164	144644	40.000	ug/ml		0.00
87) IS1_Phenanthrene-d10	9.171	188	243640	40.000	ug/ml		0.00
103) IS1_Chrysene-d12	12.041	240	211435	40.000	ug/ml	#	0.00
112) IS1_Perylene-d12	14.181	264	215613	40.000	ug/ml		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	3.503	112	109439	48.919	ug/ml		-0.01
Spiked Amount 50.000	Range 15 - 110		Recovery = 97.84%				
7) Phenol-d6	4.471	99	130610	46.461	ug/ml		0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 92.92%				
19) Nitrobenzene-d5	5.324	82	110584	42.518	ug/ml		0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 170.07%#				
45) 2-Fluorobiphenyl	7.094	172	229687	51.134	ug/ml		0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 204.54%#				
78) 2,4,6-Tribromophenol	8.501	330	29584	49.319	ug/ml		0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 98.64%				
95) 4-Terphenyl-d14	10.777	244	230502	48.589	ug/ml		0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 194.36%#				
Target Compounds							Qvalue
2) n-Nitrosodimethylamine	2.102	74	60747	40.715	ug/ml#		97
3) Pyridine	2.139	79	106256	45.551	ug/ml		83
5) Aniline	4.460	93	169849	46.975	ug/ml#		87
6) 2-Chlorophenol	4.577	128	121401	49.063	ug/ml#		87
8) Phenol	4.483	94	134680	40.723	ug/ml#		99
9) Bis(2-chloroethyl)ether	4.540	93	104336	44.291	ug/ml		88
10) 1,3-Dichlorobenzene	4.719	146	125083	48.012	ug/ml		96
11) 1,4-Dichlorobenzene	4.793	146	127631	47.509	ug/ml		96
12) 1,2-Dichlorobenzene	4.940	146	121206	47.439	ug/ml		96
13) Benzyl alcohol	4.935	79	84251	43.012	ug/ml#		89
14) Bis(2-chloroisopropyl)...	5.071	45	170799	35.372	ug/ml#		97
15) 2-Methylphenol	5.071	108	106991	48.496	ug/ml		96
16) Hexachloroethane	5.267	117	48008	46.739	ug/ml		99
17) n-Nitrosodi-n-propylamine	5.199	70	70878	40.516	ug/ml#		88
18) 3-Methylphenol/4-Methy...	5.227	108	112400	48.844	ug/ml		98
20) Nitrobenzene	5.344	77	109154	41.497	ug/ml#		86
21) Isophorone	5.585	82	202592	45.367	ug/ml		95
22) 2-Nitrophenol	5.659	139	64446	50.514	ug/ml#		81

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181209\
Data File : ABN1209.d
Acq On : 9 Dec 2018 4:59 pm
Operator : SV103:rc
Sample : wg1187317-3,32,,ABN CCV Lot# 7925
Misc : wg1187317,,ICAL15305
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Dec 10 08:06:28 2018
Quant Method : I:\8270\SV103\181209\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 08 12:55:30 2018
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) 2,4-Dimethylphenol	5.739	107	109391	49.149	ug/ml	89
24) Bis(2-chloroethoxy)met...	5.818	93	131605	45.968	ug/ml	97
25) 2,4-Dichlorophenol	5.904	162	92509	50.699	ug/ml	97
26) 1,2,4-Trichlorobenzene	5.975	180	94951	47.385	ug/ml	97
35) Naphthalene	6.040	128	351729	49.667	ug/ml	99
36) Benzoic Acid	5.852	105	91717	51.221	ug/ml	89
37) 4-Chloroaniline	6.114	65	37038	41.550	ug/ml#	43
38) Hexachlorobutadiene	6.185	225	45223	50.061	ug/ml	98
39) p-Chloro-m-cresol	6.620	107	93345	48.082	ug/ml	88
40) 2-Methylnaphthalene	6.722	142	226399	48.397	ug/ml	96
41) 1-Methylnaphthalene	6.816	115	64978	43.774	ug/ml#	63
42) Hexachlorocyclopentadiene	6.890	237	60813	55.177	ug/ml	97
43) 2,4,6-Trichlorophenol	7.015	196	60808	50.916	ug/ml	95
44) 2,4,5-Trichlorophenol	7.049	196	65428	52.050	ug/ml	96
46) 2-Chloronaphthalene	7.191	162	200500	49.530	ug/ml	96
47) 2-Nitroaniline	7.307	138	76180	52.594	ug/ml#	80
48) 1,4-Dinitrobenzene	7.441	168	32694	49.510	ug/ml	77
49) 1,3-Dinitrobenzene	7.518	168	36466	50.365	ug/ml	78
50) Dimethyl phthalate	7.506	163	225541	49.241	ug/ml	100
51) Acenaphthylene	7.591	152	334753	50.174	ug/ml	99
52) 2,6-Dinitrotoluene	7.552	165	52439	52.096	ug/ml#	83
53) 1,2-Dinitrobenzene	7.597	168	23749	50.217	ug/ml	80
63) 3-Nitroaniline	7.708	138	67499	48.624	ug/ml#	84
64) Acenaphthene	7.762	154	190582	43.739	ug/ml	98
65) 2,4-Dinitrophenol	7.810	184	33810	43.675	ug/ml	88
66) Dibenzofuran	7.932	168	285360	44.946	ug/ml	89
67) 2,4-Dinitrotoluene	7.941	165	69883	47.236	ug/ml	85
68) 4-Nitrophenol	7.910	65	45777	37.902	ug/ml#	78
69) 2,3,5,6-Tetrachlorophenol	8.026	232	51347	46.842	ug/ml	97
70) 2,3,4,6-Tetrachlorophenol	8.069	232	50639	45.687	ug/ml	98
71) Diethyl phthalate	8.197	149	236899	43.700	ug/ml	99
72) Fluorene	8.265	166	227203	44.508	ug/ml	99
73) 4-Chlorophenyl phenyl ...	8.282	204	98380	44.598	ug/ml	89
74) 4-Nitroaniline	8.302	138	67809	49.520	ug/ml#	74
75) 4,6-Dinitro-o-cresol	8.336	198	37819	42.701	ug/ml#	86
76) NDPA/DPA	8.401	169	193457	44.879	ug/ml	97
77) Azobenzene	8.432	77	227883	39.445	ug/ml	95
79) 4-Bromophenyl phenyl e...	8.754	248	52311	44.080	ug/ml	90
80) Hexachlorobenzene	8.805	284	59877	46.643	ug/ml	97
81) Pentachlorophenol	9.004	266	38277	47.092	ug/ml	97
88) Phenanthrene	9.194	178	318045	47.344	ug/ml	100

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181209\
Data File : ABN1209.d
Acq On : 9 Dec 2018 4:59 pm
Operator : SV103:rc
Sample : wg1187317-3,32,,ABN CCV Lot# 7925
Misc : wg1187317,,ICAL15305
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Dec 10 08:06:28 2018
Quant Method : I:\8270\SV103\181209\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 08 12:55:30 2018
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
89)	Anthracene	9.242	178	333434	49.894	ug/ml	99
90)	Carbazole	9.413	167	315333	50.893	ug/ml	99
91)	Di-n-butylphthalate	9.796	149	406830	51.303	ug/ml	99
92)	Fluoranthene	10.350	202	324275	49.294	ug/ml#	97
93)	Benzidine	10.510	184	248851	55.154	ug/ml	98
94)	Pyrene	10.578	202	333020	48.827	ug/ml	100
96)	Butyl benzyl phthalate	11.376	149	181423	51.634	ug/ml	94
104)	Benzo(a)anthracene	12.027	228	291655	46.875	ug/ml	100
105)	3,3'-Dichlorobenzidine	12.033	252	124204	54.860	ug/ml	97
106)	Chrysene	12.072	228	287463	48.925	ug/ml	100
107)	Bis(2-ethylhexyl)phtha...	12.195	149	268461	54.640	ug/ml	100
108)	Di-n-octylphthalate	13.186	149	478856	56.332	ug/ml	96
109)	Benzo(b)fluoranthene	13.604	252	295505	51.883	ug/ml#	95
110)	Benzo(k)fluoranthene	13.647	252	292919	51.208	ug/ml#	95
111)	Benzo(a)pyrene	14.093	252	291111	52.715	ug/ml#	94
113)	Indeno(1,2,3-cd)pyrene	15.792	276	254207	47.024	ug/mL#	90
114)	Dibenzo(a,h)anthracene	15.846	278	257324M4	46.592	ug/ml	
115)	Benzo(ghi)perylene	16.170	276	261676	45.657	ug/ml#	88

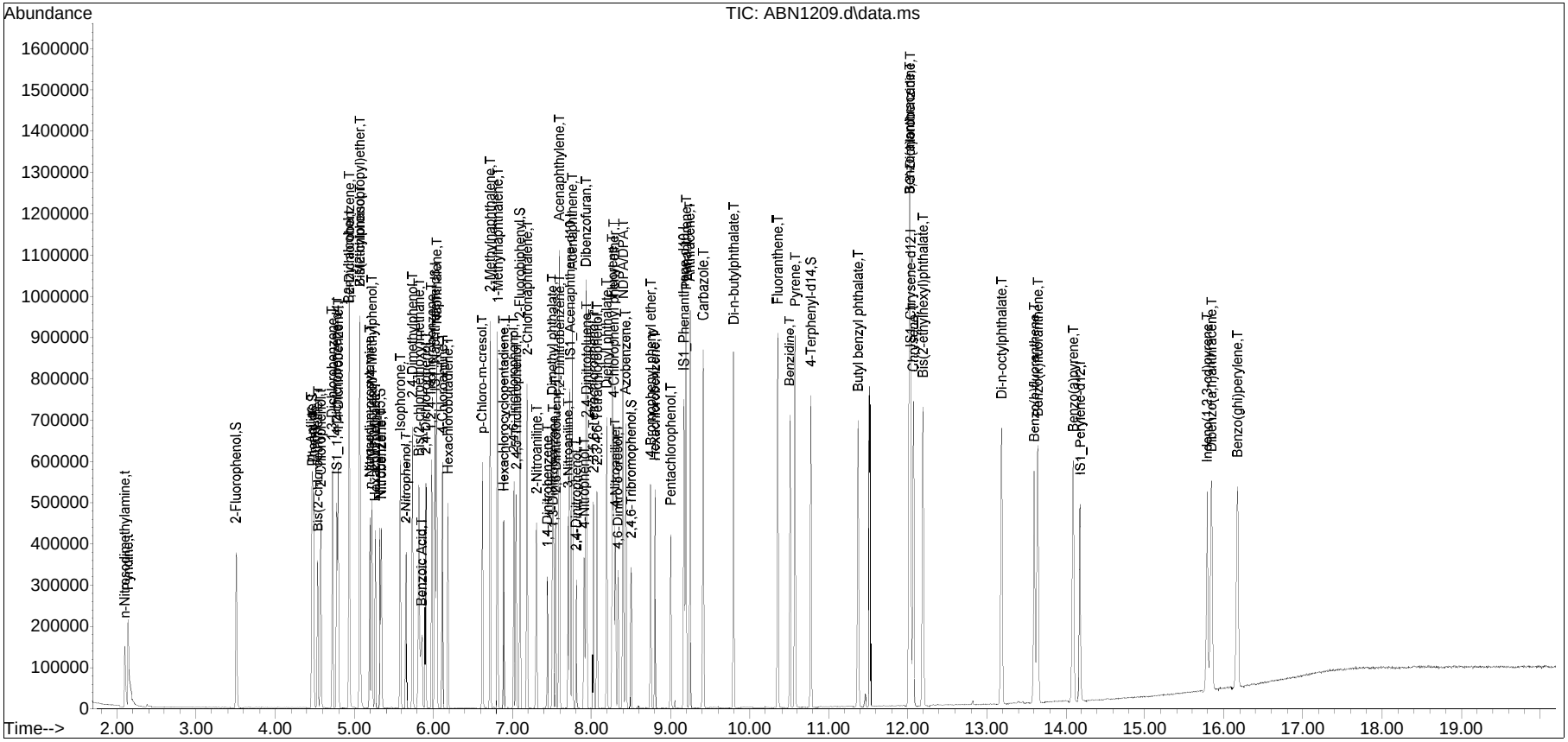
(#) = qualifier out of range (m) = manual integration (+) = signals summed

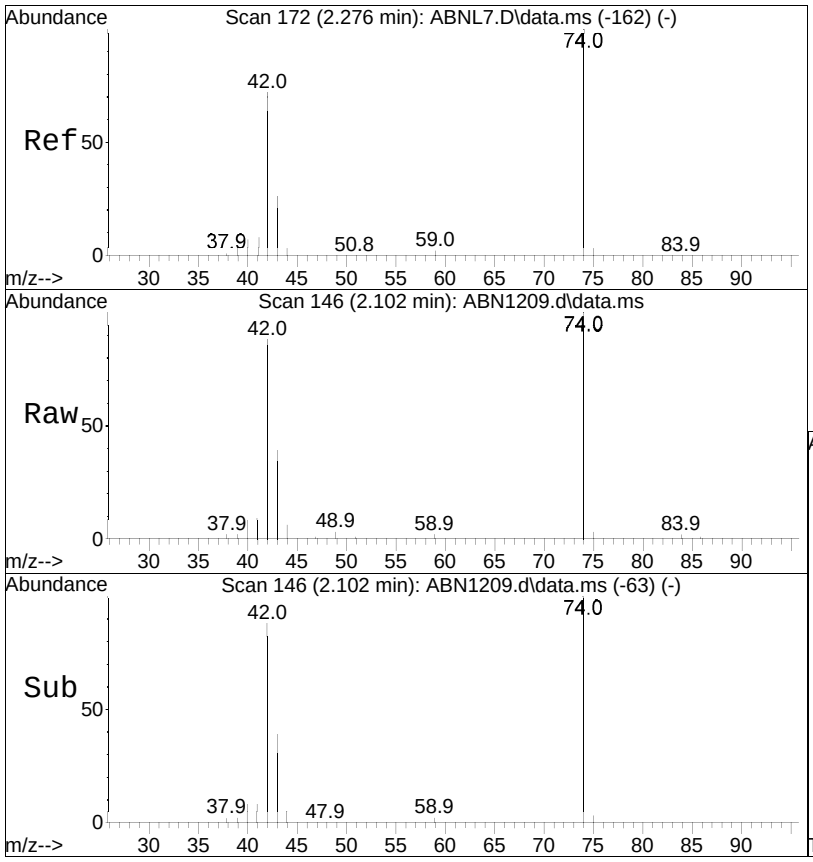
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181209\
Data File : ABN1209.d
Acq On : 9 Dec 2018 4:59 pm
Operator : SV103:rc
Sample : wg1187317-3,32,,ABN CCV Lot# 7925
Misc : wg1187317,,ICAL15305
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Dec 10 08:06:28 2018
Quant Method : I:\8270\SV103\181209\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sat Dec 08 12:55:30 2018
Response via : Initial Calibration

Sub List : ABNical - ABN ical sublist

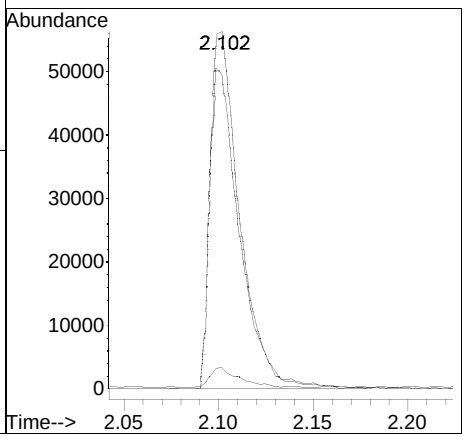


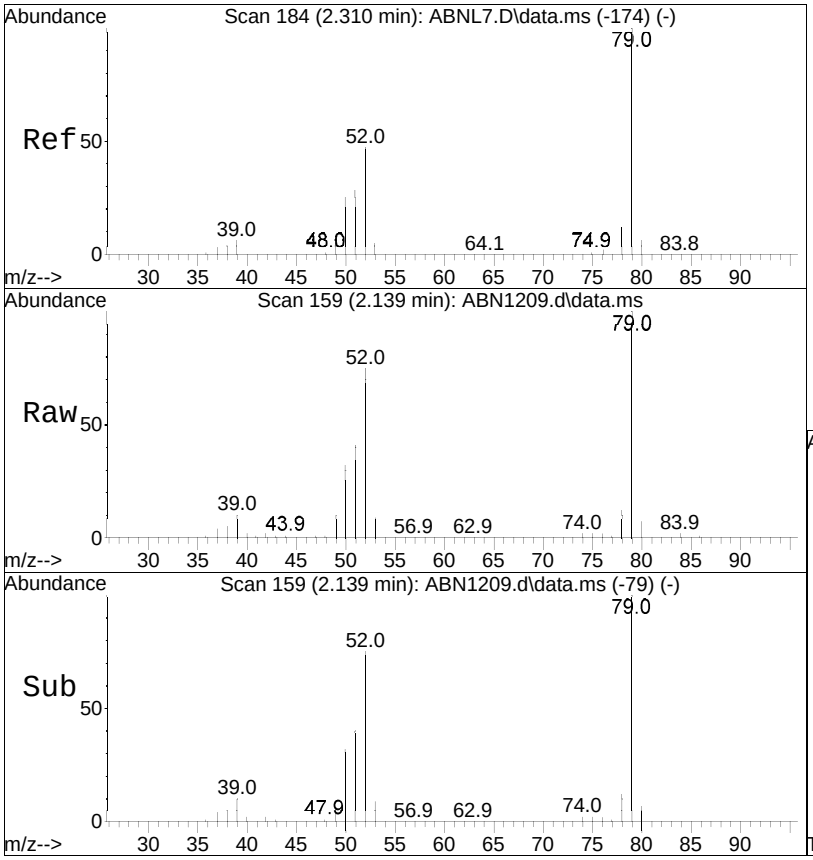


#2
n-Nitrosodimethylamine
Concen: 40.72 ug/ml
RT: 2.102 min Scan# 146
Delta R.T. -0.014 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion: 74 Resp: 60747

Ion	Ratio	Lower	Upper
74	100		
42	90.1	74.5	111.7
44	5.4	5.5	8.3#

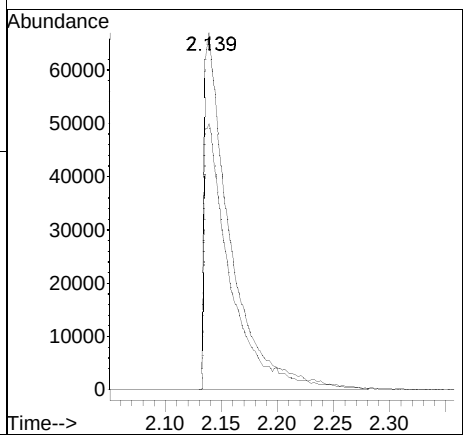


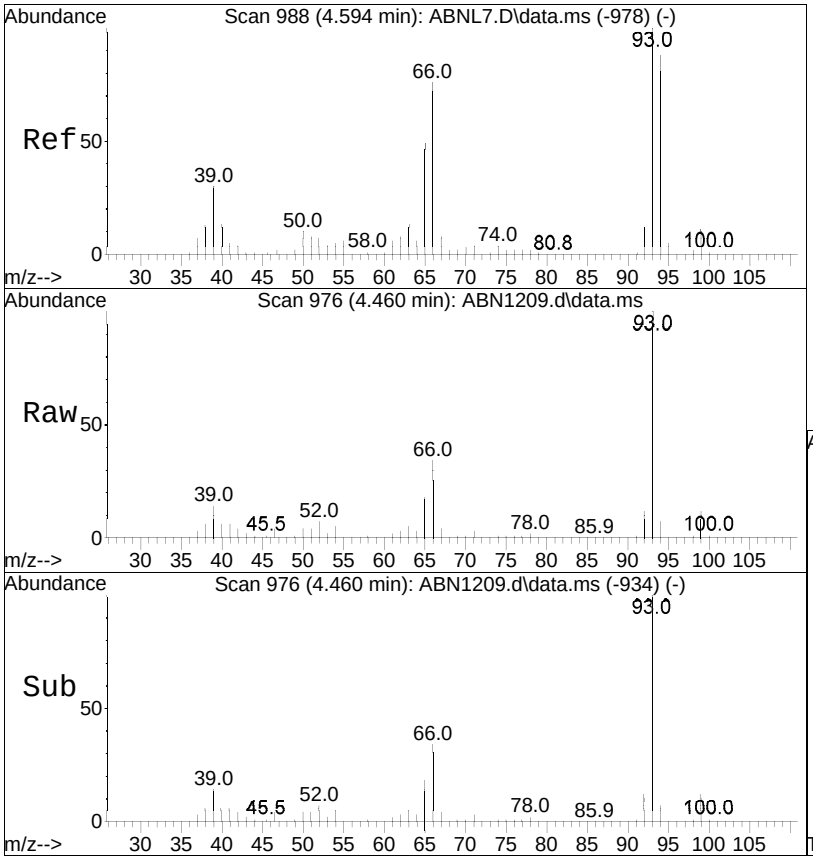


#3
Pyridine
Concen: 45.55 ug/ml
RT: 2.139 min Scan# 159
Delta R.T. -0.023 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion: 79 Resp: 106256

Ion	Ratio	Lower	Upper
79	100		
52	75.2	72.9	109.3

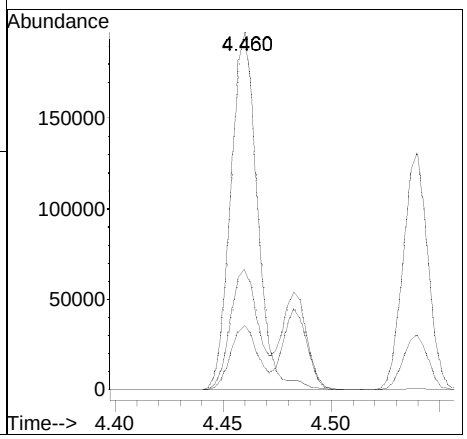


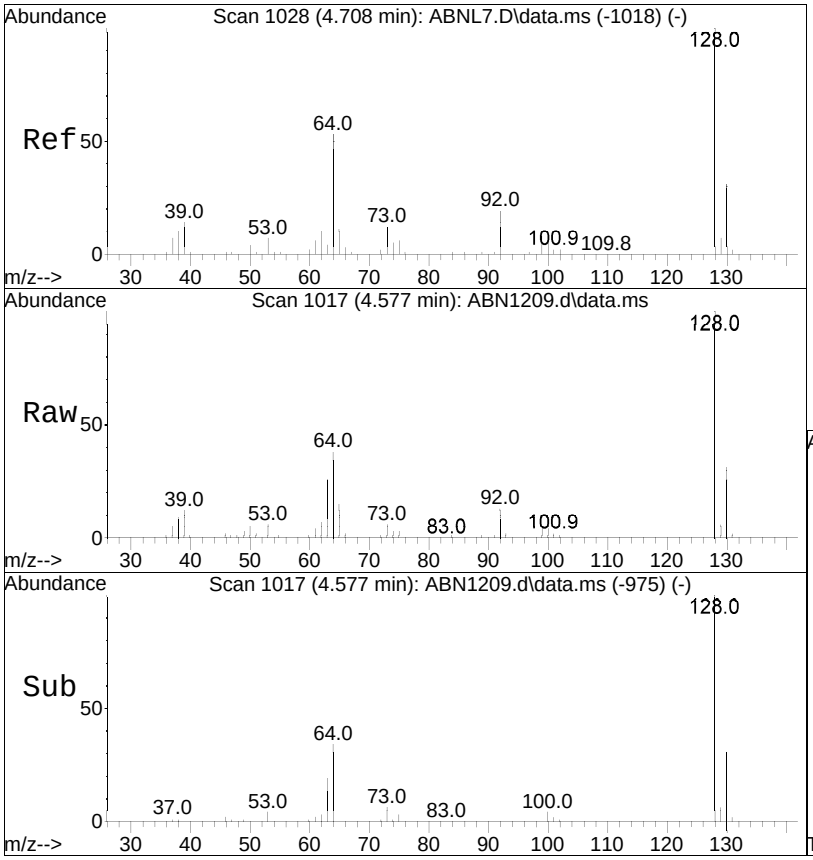


#5
Aniline
Concen: 46.98 ug/ml
RT: 4.460 min Scan# 976
Delta R.T. -0.006 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion: 93 Resp: 169849

Ion	Ratio	Lower	Upper
93	100		
66	35.3	37.3	55.9#
65	18.5	16.7	25.1

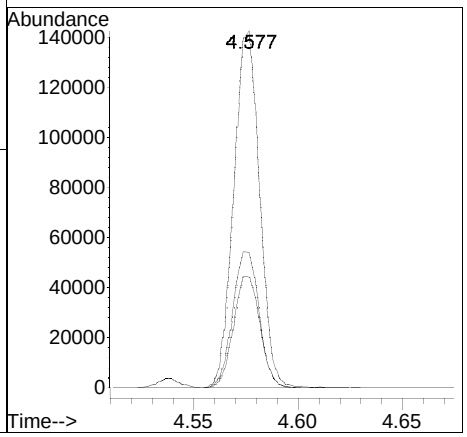


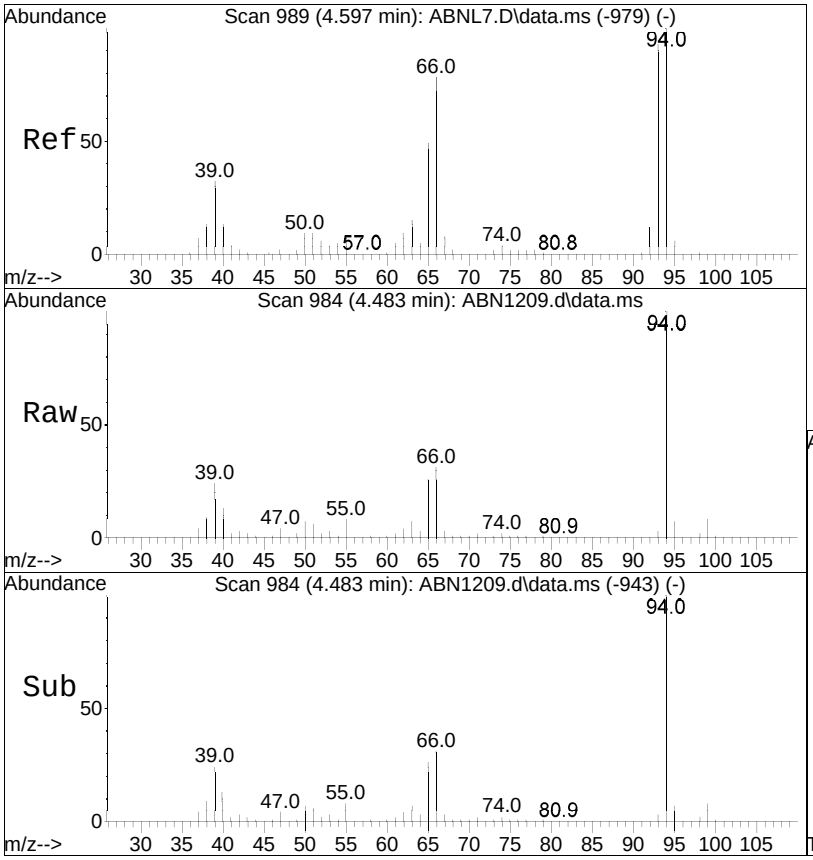


#6
2-Chlorophenol
Concen: 49.06 ug/ml
RT: 4.577 min Scan# 1017
Delta R.T. -0.006 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion:128 Resp: 121401

Ion	Ratio	Lower	Upper
128	100		
64	38.9	42.7	64.1#
130	32.0	25.8	38.6

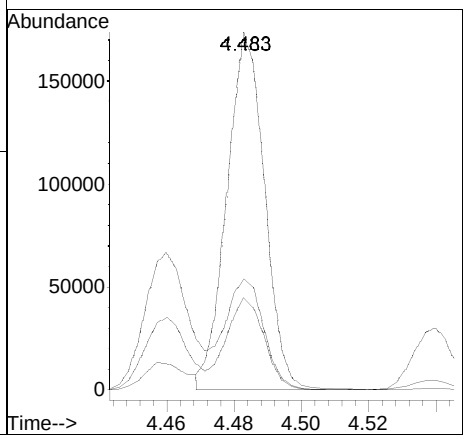


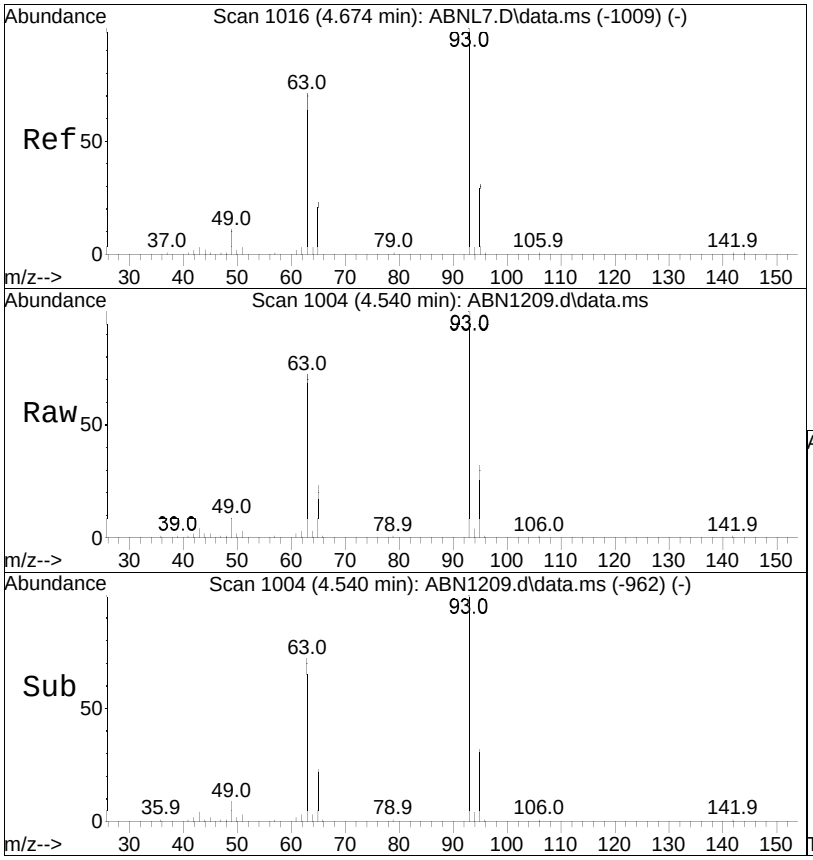


#8
Phenol
Concen: 40.72 ug/ml
RT: 4.483 min Scan# 984
Delta R.T. -0.009 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion: 94 Resp: 134680

Ion	Ratio	Lower	Upper
94	100		
65	26.1	20.5	30.7
66	32.9	0.0	0.0#

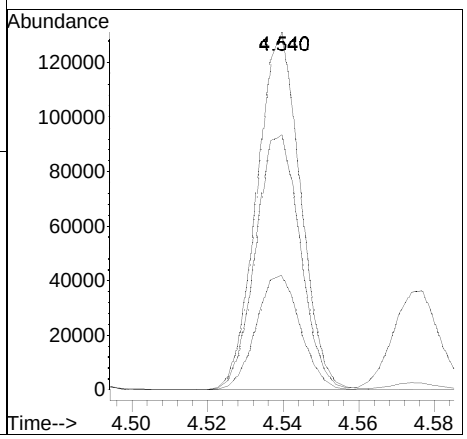


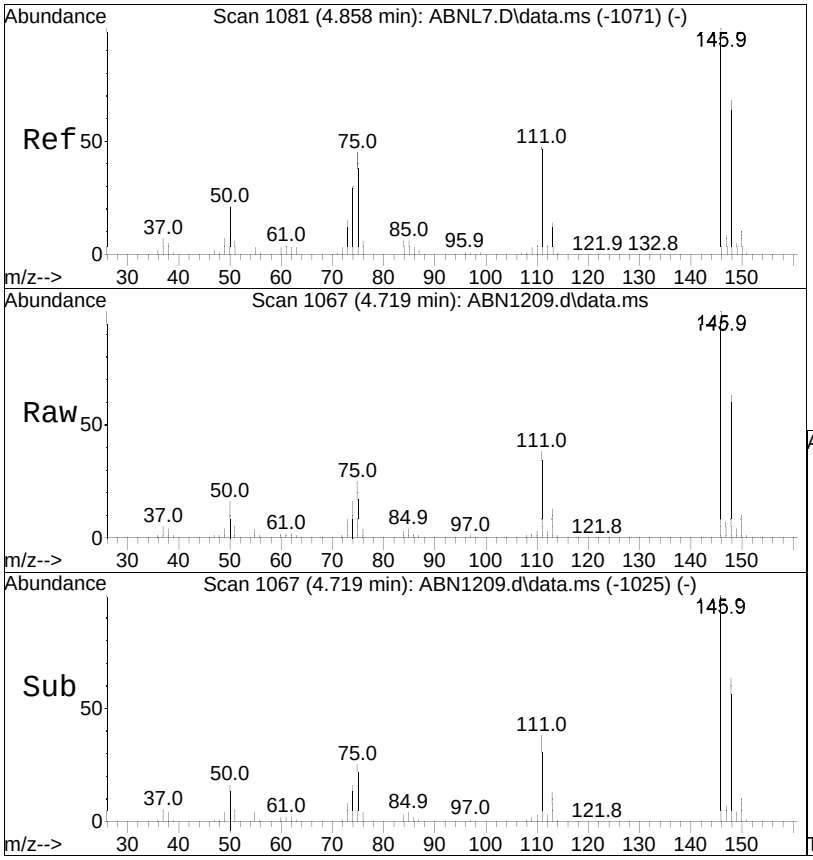


#9
Bis(2-chloroethyl)ether
Concen: 44.29 ug/ml
RT: 4.540 min Scan# 1004
Delta R.T. -0.006 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion: 93 Resp: 104336

Ion	Ratio	Lower	Upper
93	100		
63	73.3	70.4	105.6
95	32.7	25.8	38.6

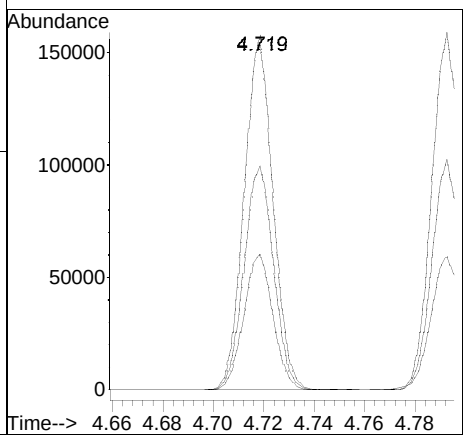


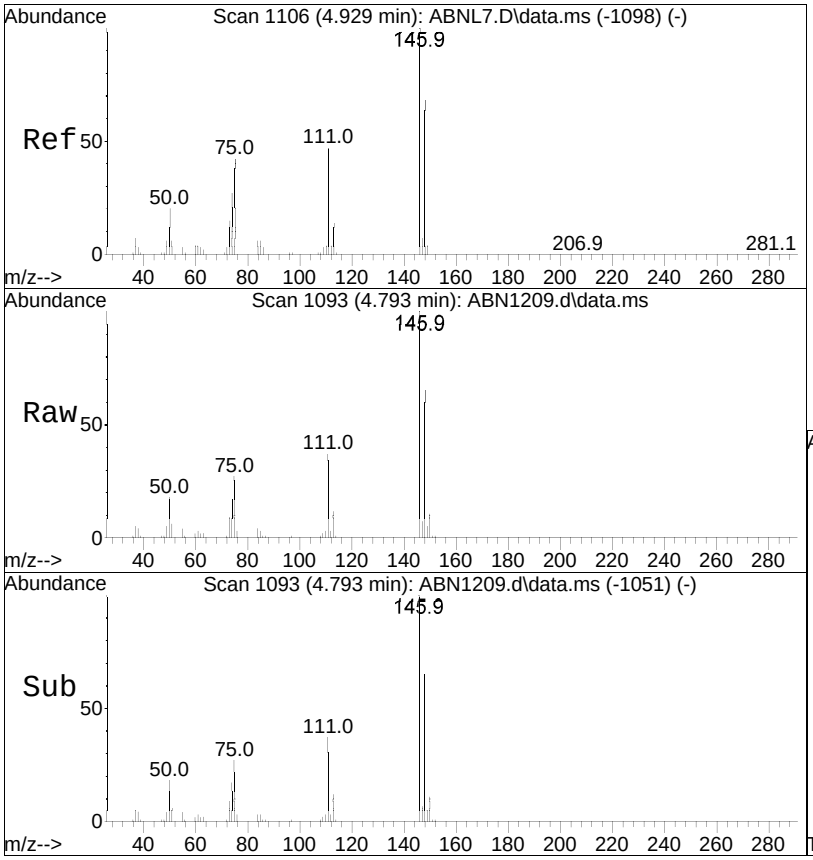


#10
1,3-Dichlorobenzene
Concen: 48.01 ug/ml
RT: 4.719 min Scan# 1067
Delta R.T. -0.006 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion:146 Resp: 125083

Ion	Ratio	Lower	Upper
146	100		
111	38.9	35.8	53.6
148	64.8	51.2	76.8

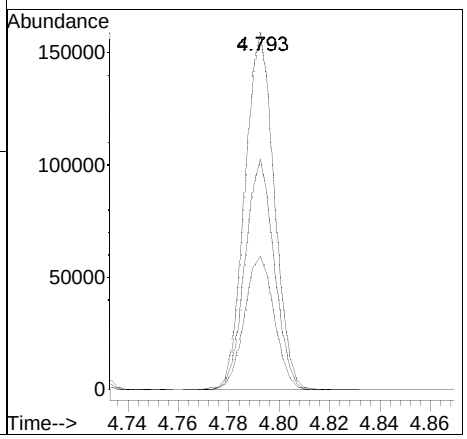


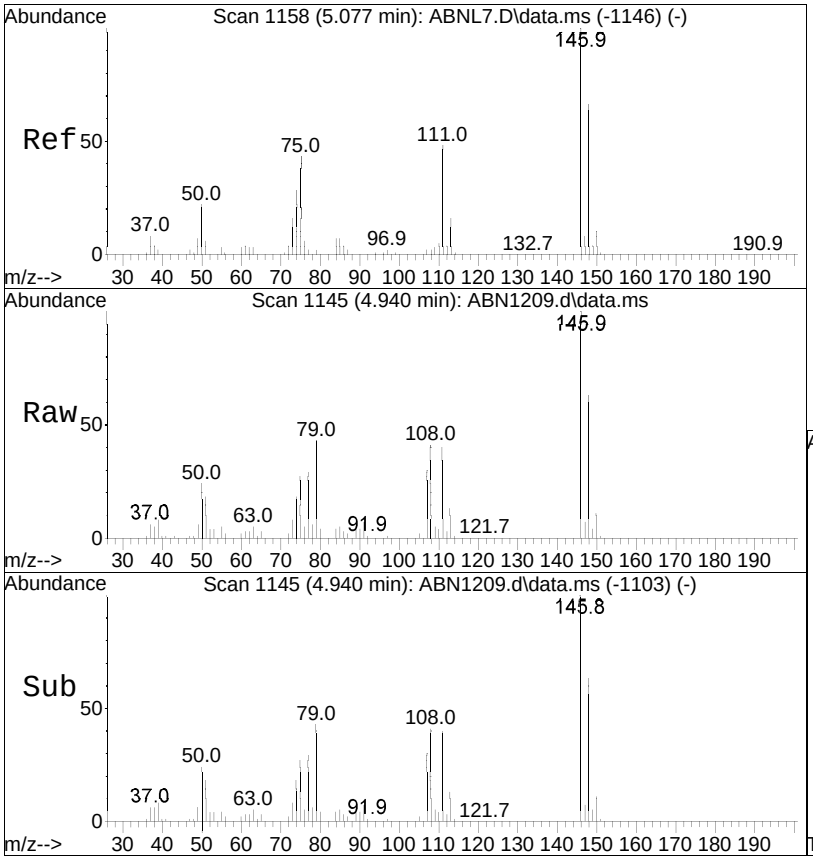


#11
1,4-Dichlorobenzene
Concen: 47.51 ug/ml
RT: 4.793 min Scan# 1093
Delta R.T. -0.006 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion:146 Resp: 127631

Ion	Ratio	Lower	Upper
146	100		
148	64.0	51.6	77.4
111	38.6	35.3	52.9

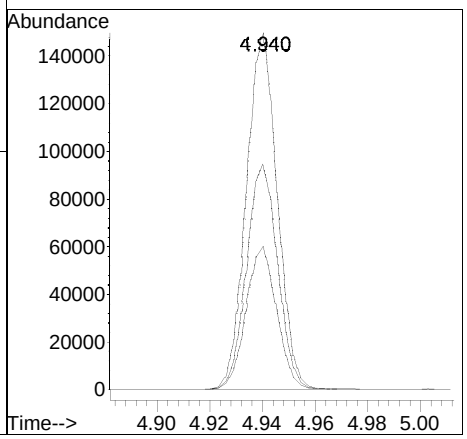


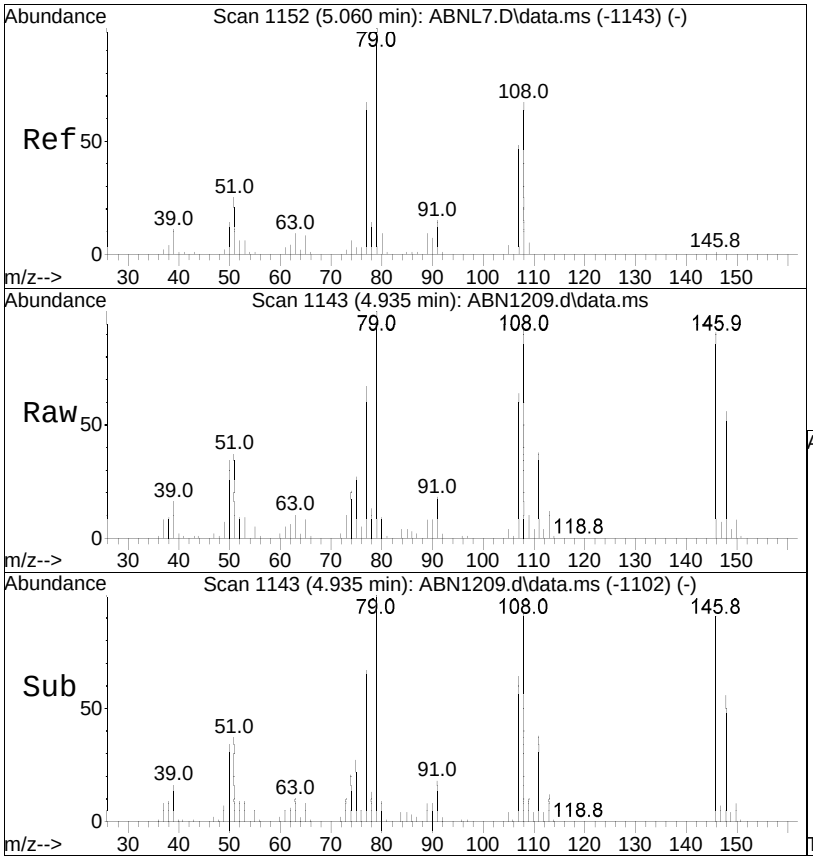


#12
1,2-Dichlorobenzene
Concen: 47.44 ug/ml
RT: 4.940 min Scan# 1145
Delta R.T. -0.006 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion:146 Resp: 121206

Ion	Ratio	Lower	Upper
146	100		
111	40.0	36.0	54.0
148	63.5	49.9	74.9

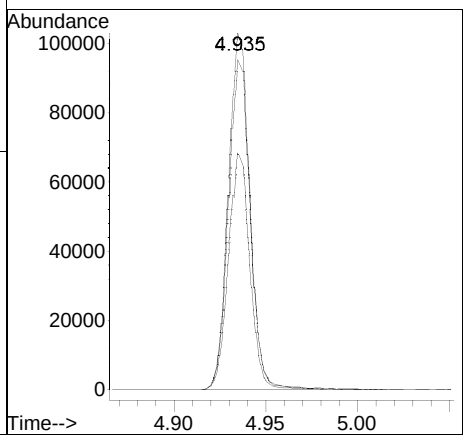


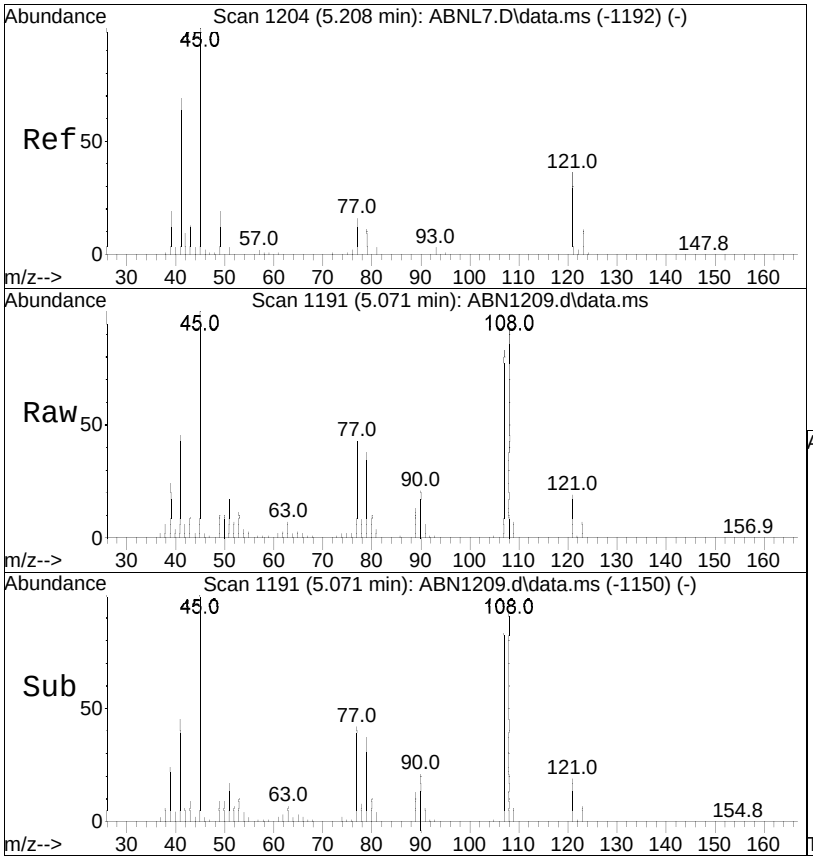


#13
Benzyl alcohol
Concen: 43.01 ug/ml
RT: 4.935 min Scan# 1143
Delta R.T. -0.009 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion: 79 Resp: 84251

Ion	Ratio	Lower	Upper
79	100		
77	66.0	52.3	78.5
108	92.5	60.2	90.4#

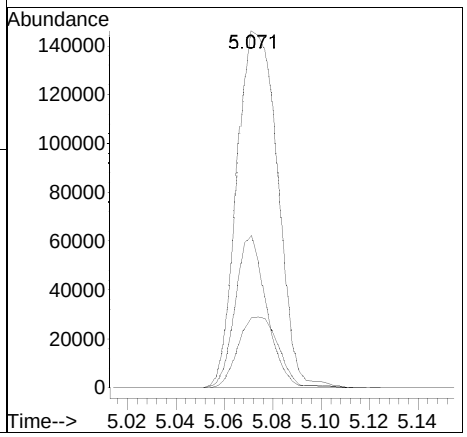


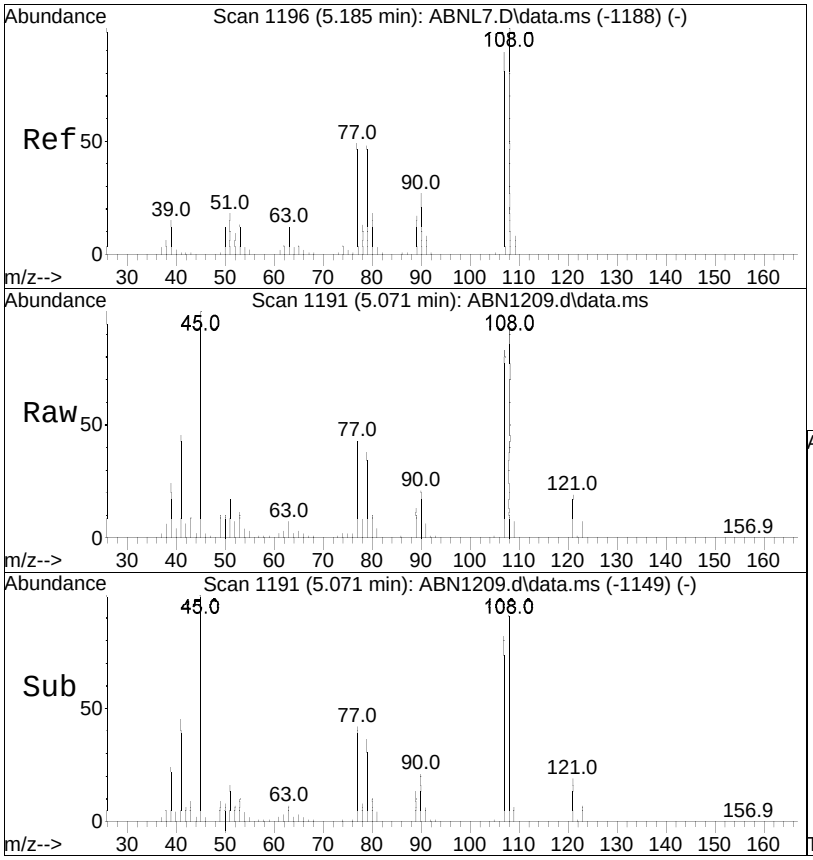


#14
Bis(2-chloroisopropyl)ether
Concen: 35.37 ug/ml
RT: 5.071 min Scan# 1191
Delta R.T. -0.009 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion: 45 Resp: 170799

Ion	Ratio	Lower	Upper
45	100		
121	19.8	12.6	19.0#
77	33.4	26.4	39.6

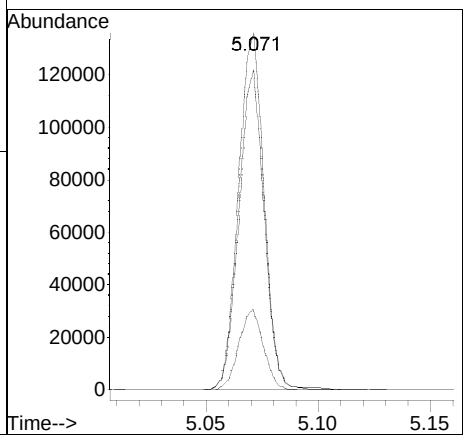


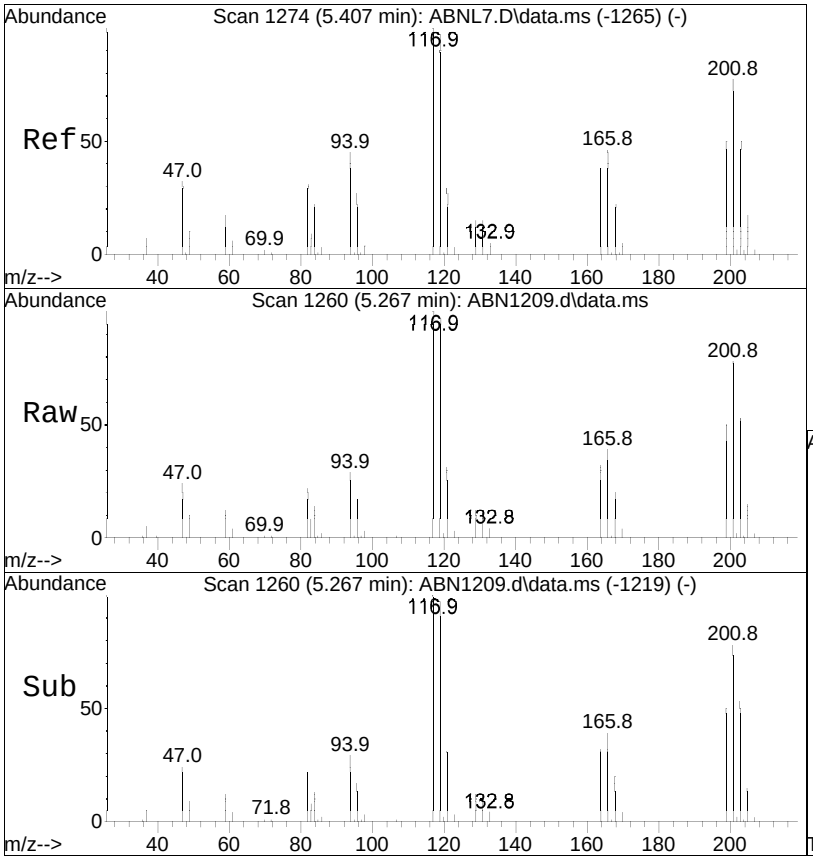


#15
2-Methylphenol
Concen: 48.50 ug/ml
RT: 5.071 min Scan# 1191
Delta R.T. -0.006 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion:108 Resp: 106991

Ion	Ratio	Lower	Upper
108	100		
107	88.3	72.8	109.2
90	21.7	20.2	30.4

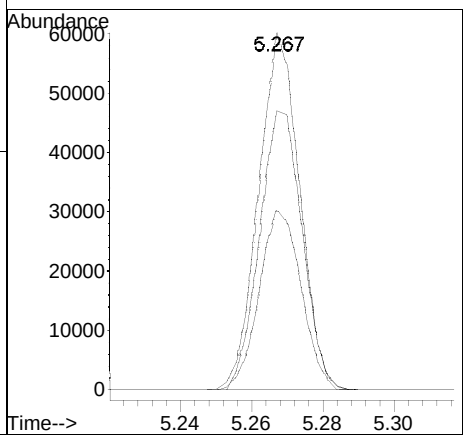


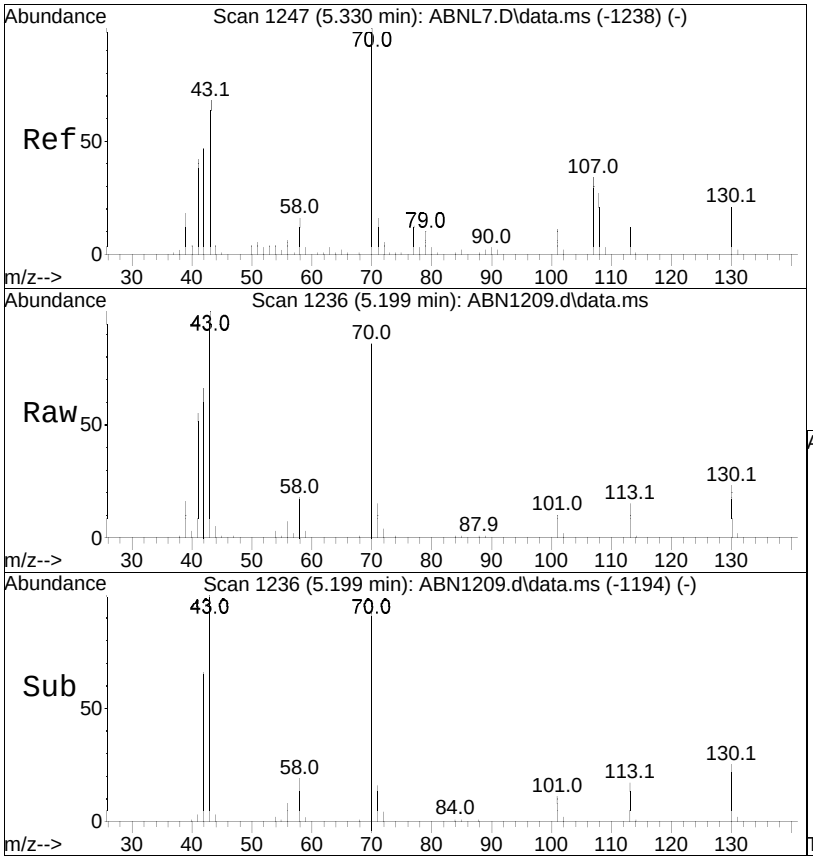


#16
Hexachloroethane
Concen: 46.74 ug/ml
RT: 5.267 min Scan# 1260
Delta R.T. -0.009 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion:117 Resp: 48008

Ion	Ratio	Lower	Upper
117	100		
201	81.0	64.5	96.7
199	51.6	40.3	60.5

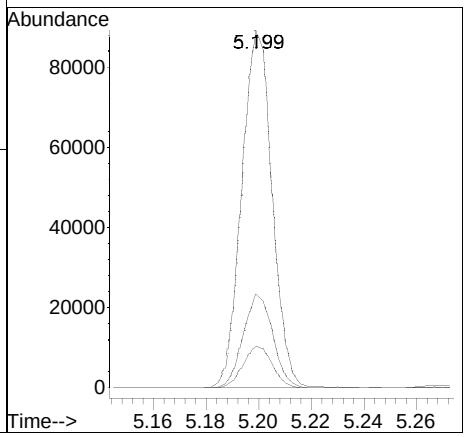


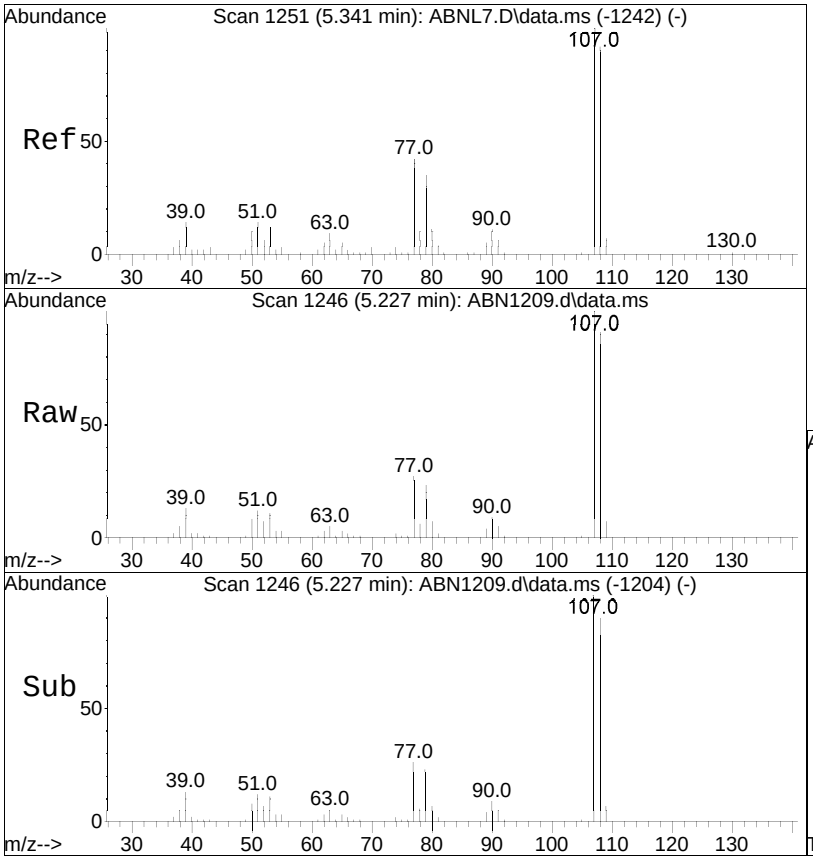


#17
n-Nitrosodi-n-propylamine
Concen: 40.52 ug/ml
RT: 5.199 min Scan# 1236
Delta R.T. -0.006 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion: 70 Resp: 70878

Ion	Ratio	Lower	Upper
70	100		
130	25.5	15.0	22.4#
101	11.2	7.4	11.0#

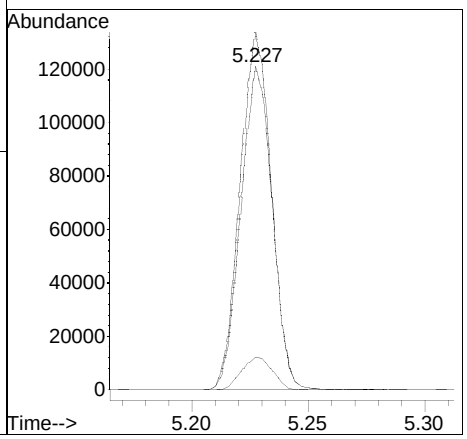


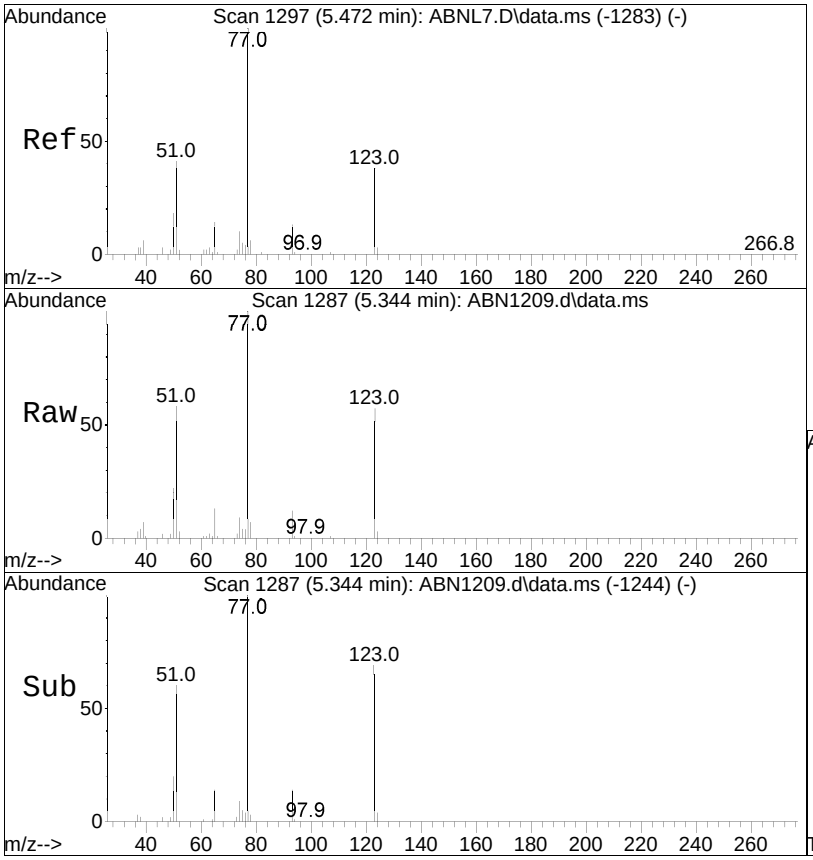


#18
3-Methylphenol/4-Methylphenol
Concen: 48.84 ug/ml
RT: 5.227 min Scan# 1246
Delta R.T. -0.006 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion:108 Resp: 112400

Ion	Ratio	Lower	Upper
108	100		
107	110.5	90.4	135.6
90	10.1	9.2	13.8

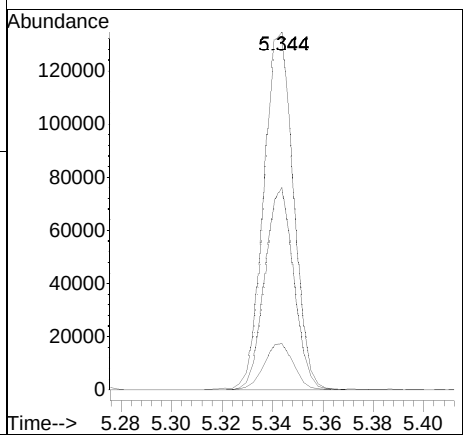


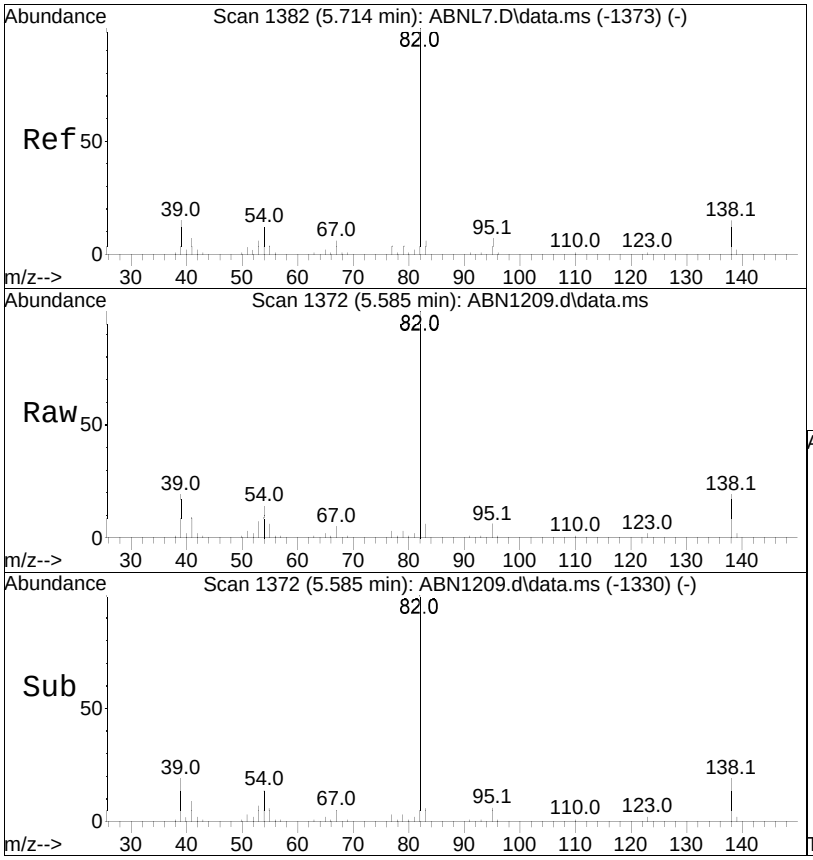


#20
Nitrobenzene
Concen: 41.50 ug/ml
RT: 5.344 min Scan# 1287
Delta R.T. -0.003 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion: 77 Resp: 109154

Ion	Ratio	Lower	Upper
77	100		
123	55.2	35.0	52.4#
65	13.0	11.5	17.3

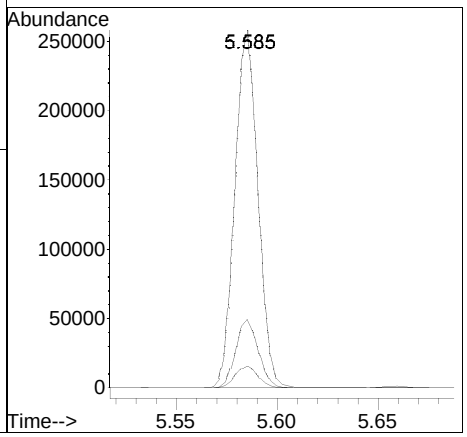


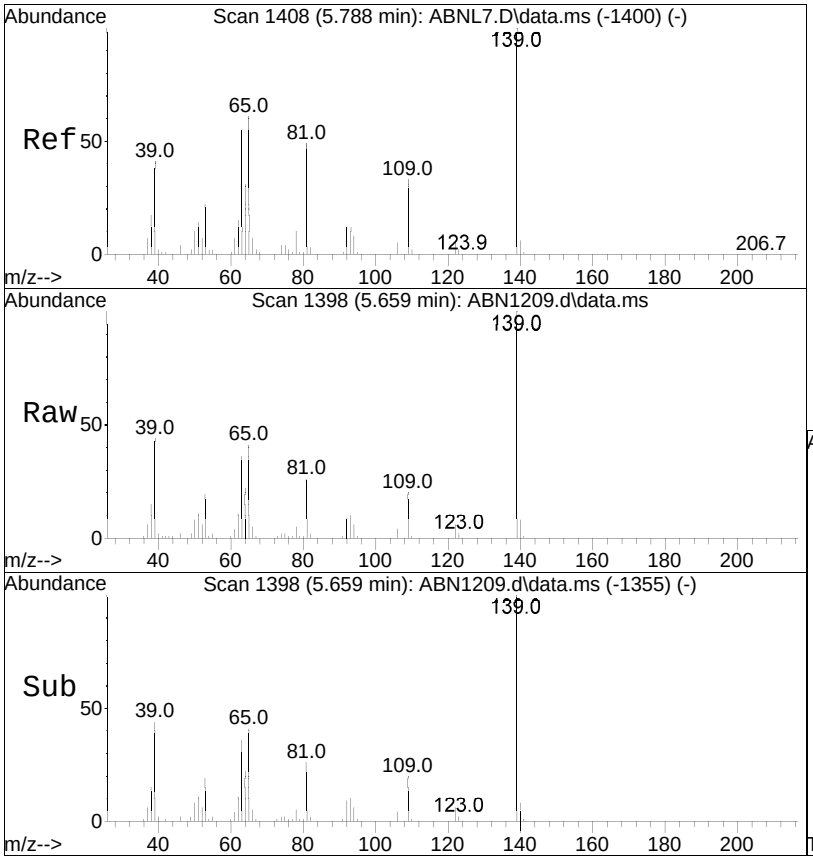


#21
Isophorone
Concen: 45.37 ug/ml
RT: 5.585 min Scan# 1372
Delta R.T. -0.006 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion: 82 Resp: 202592

Ion	Ratio	Lower	Upper
82	100		
138	18.8	12.8	19.2
95	6.2	5.5	8.3

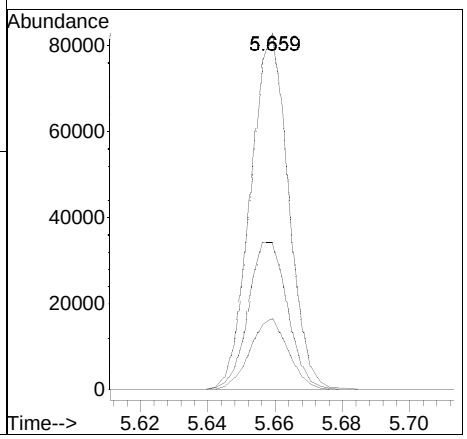


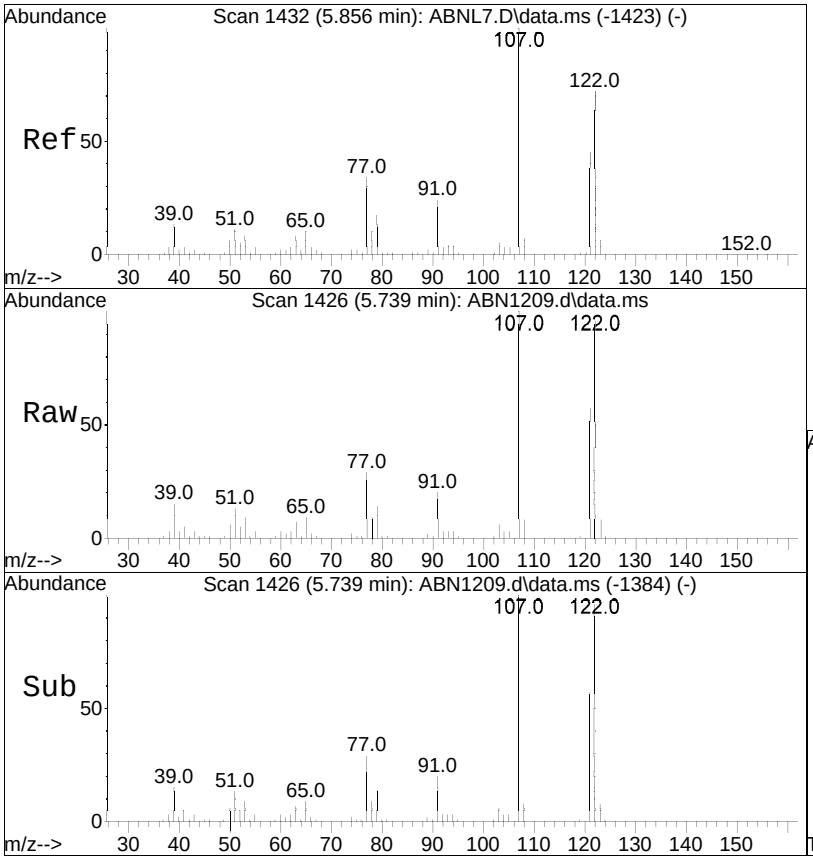


#22
2-Nitrophenol
Concen: 50.51 ug/ml
RT: 5.659 min Scan# 1398
Delta R.T. -0.003 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion:139 Resp: 64446

Ion	Ratio	Lower	Upper
139	100		
109	20.2	24.8	37.2#
65	42.9	45.5	68.3#

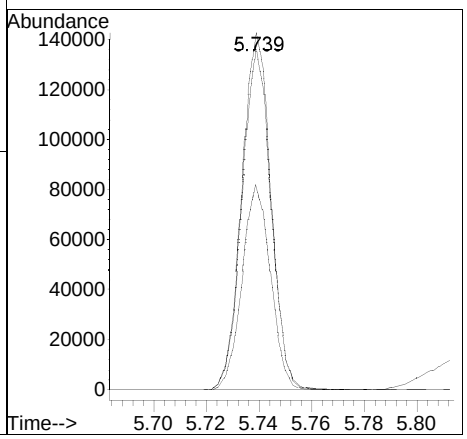


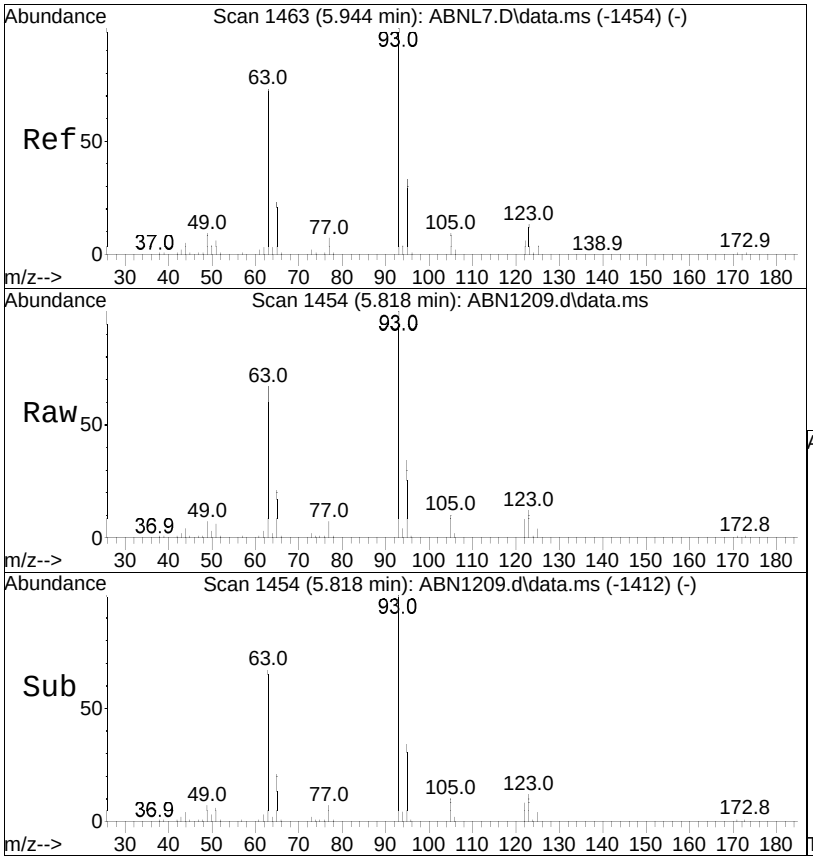


#23
2,4-Dimethylphenol
Concen: 49.15 ug/ml
RT: 5.739 min Scan# 1426
Delta R.T. -0.006 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion:107 Resp: 109391

Ion	Ratio	Lower	Upper
107	100		
121	56.2	39.7	59.5
122	94.7	66.8	100.2

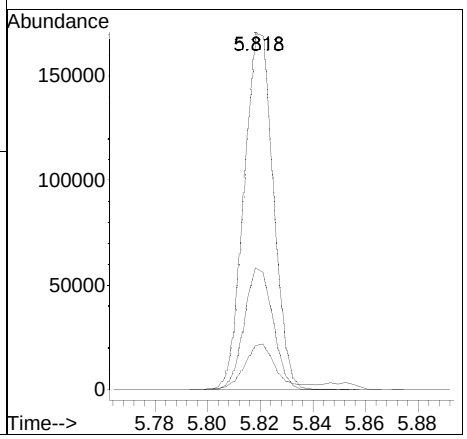


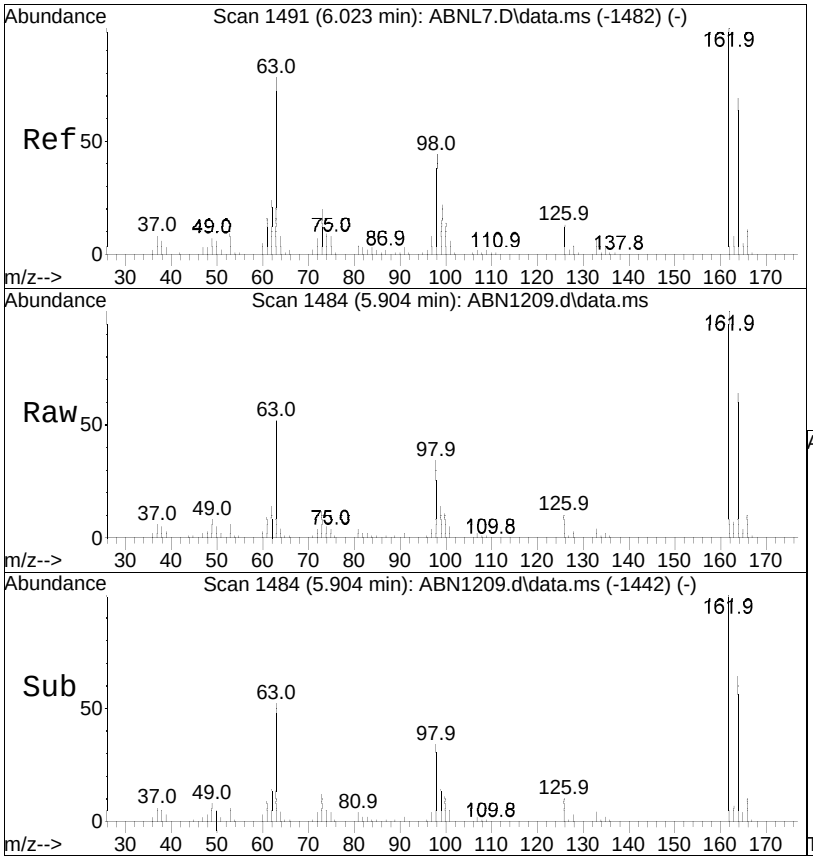


#24
Bis(2-chloroethoxy)methane
Concen: 45.97 ug/ml
RT: 5.818 min Scan# 1454
Delta R.T. -0.006 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion: 93 Resp: 131605

Ion	Ratio	Lower	Upper
93	100		
95	33.7	26.1	39.1
123	14.4	9.8	14.8

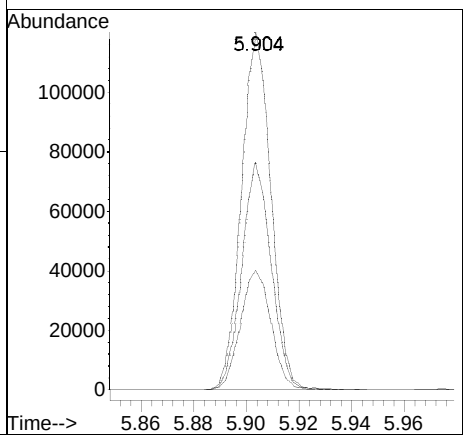


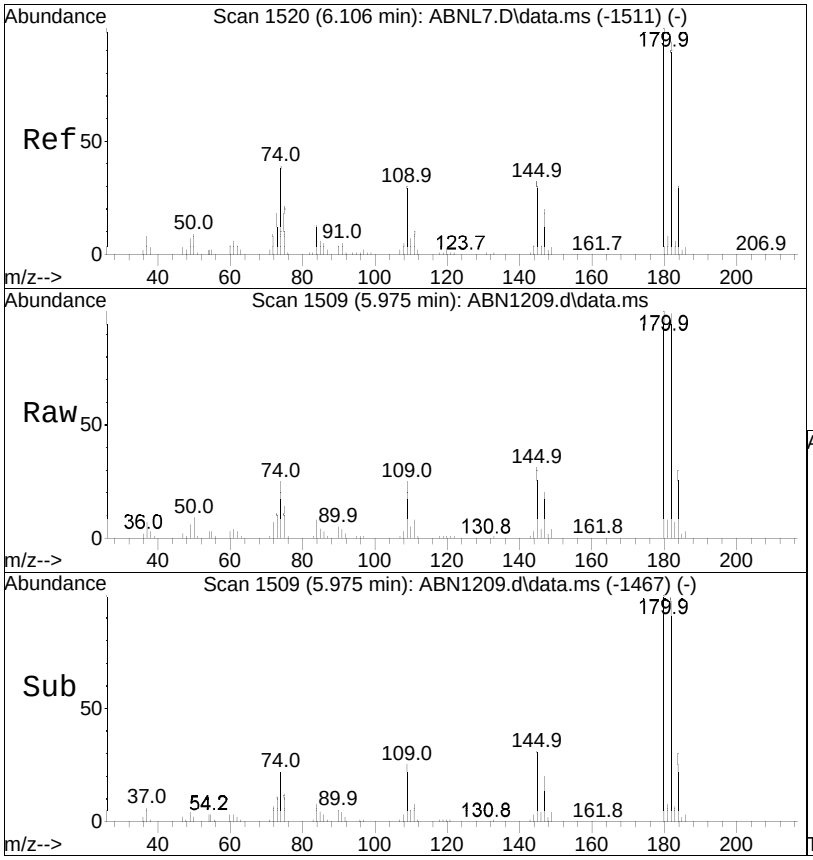


#25
2,4-Dichlorophenol
Concen: 50.70 ug/ml
RT: 5.904 min Scan# 1484
Delta R.T. -0.006 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion:162 Resp: 92509

Ion	Ratio	Lower	Upper
162	100		
164	63.5	50.4	75.6
98	34.9	31.6	47.4

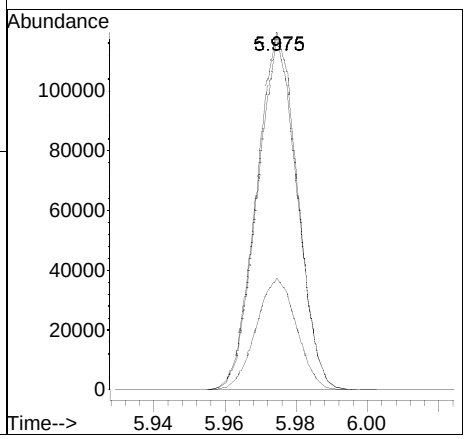


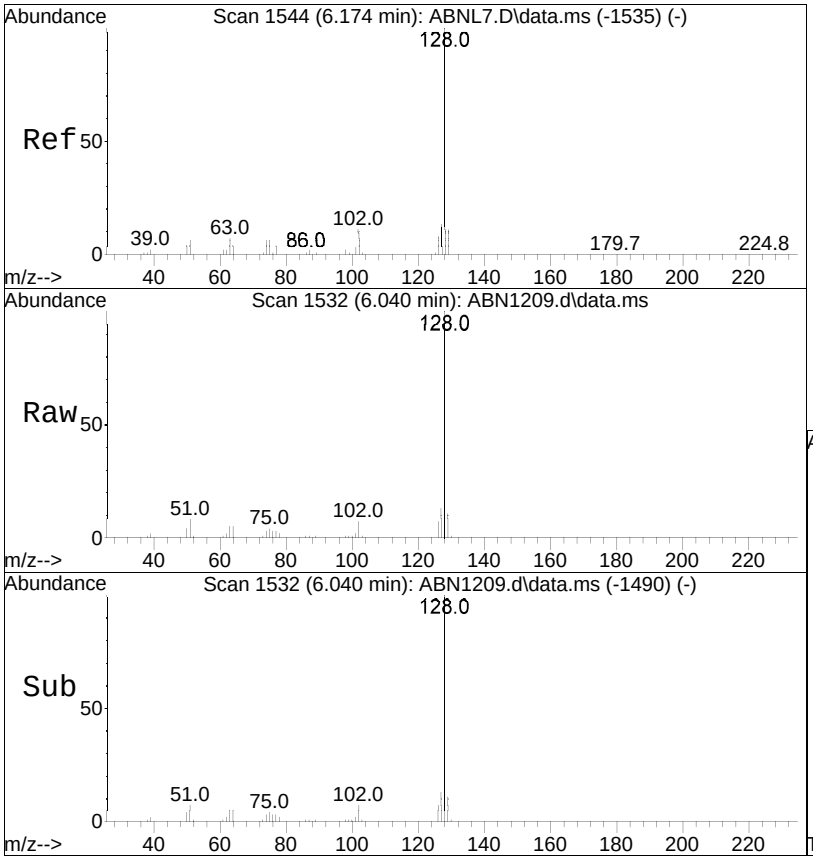


#26
1,2,4-Trichlorobenzene
Concen: 47.39 ug/ml
RT: 5.975 min Scan# 1509
Delta R.T. -0.006 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion:180 Resp: 94951

Ion	Ratio	Lower	Upper
180	100		
182	95.8	74.7	112.1
145	31.0	26.6	39.8

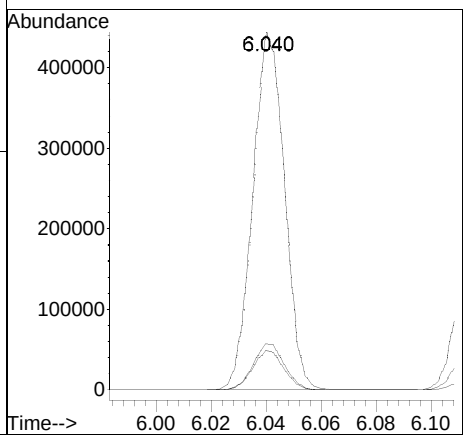


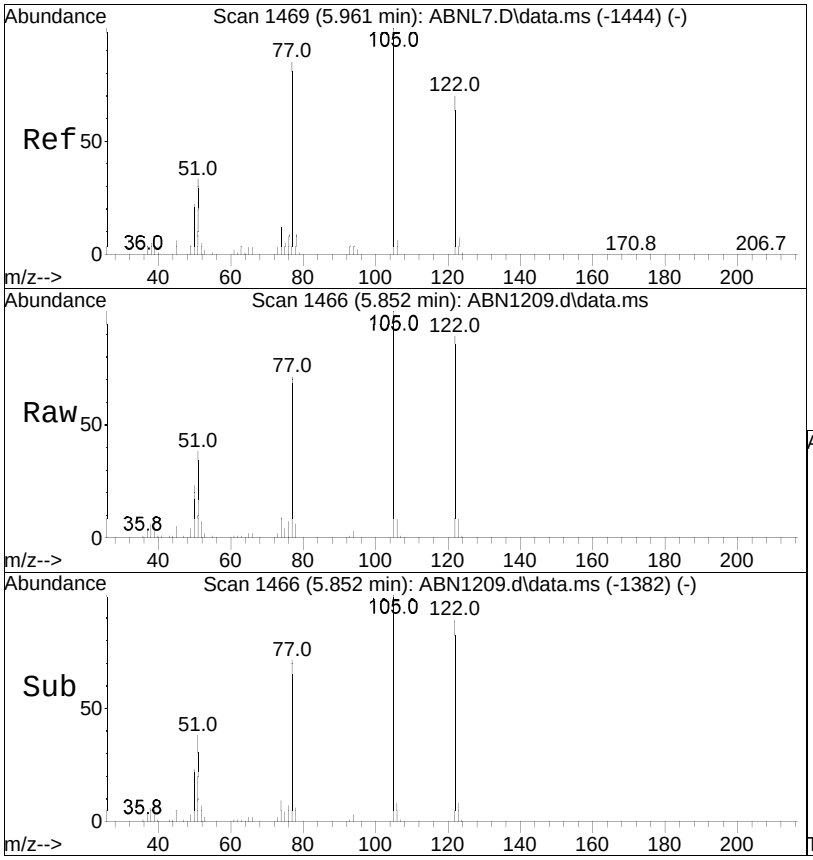


#35
Naphthalene
Concen: 49.67 ug/ml
RT: 6.040 min Scan# 1532
Delta R.T. -0.006 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion:128 Resp: 351729

Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.7	13.1
127	12.8	10.7	16.1

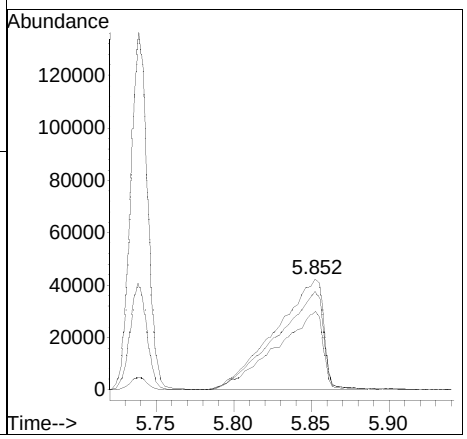


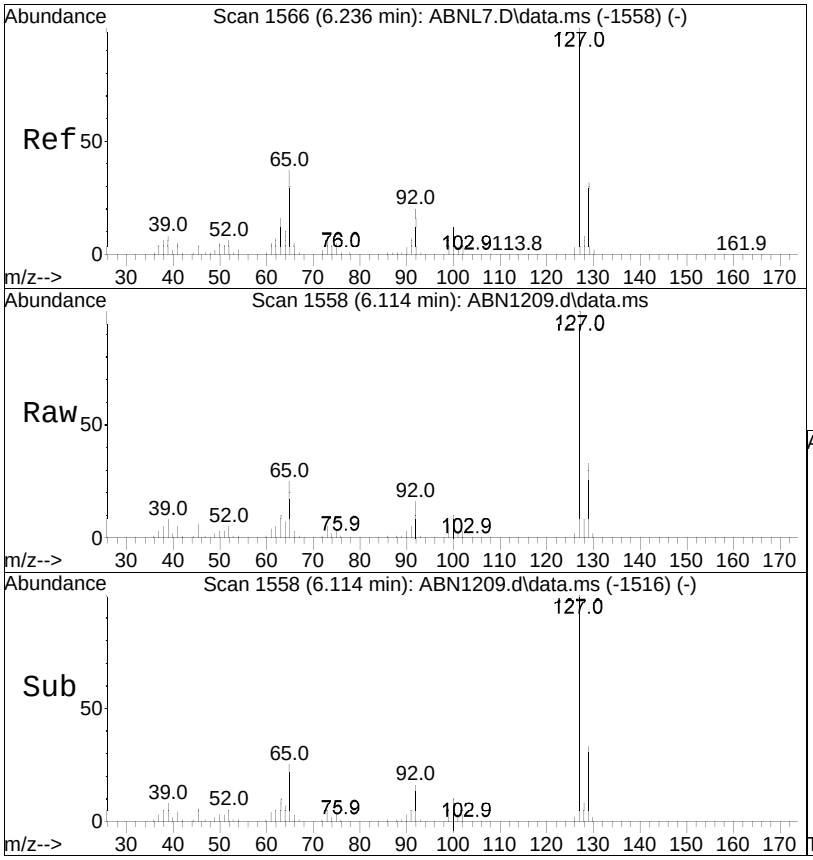


#36
Benzoic Acid
Concen: 51.22 ug/ml
RT: 5.852 min Scan# 1466
Delta R.T. -0.011 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion:105 Resp: 91717

Ion	Ratio	Lower	Upper
105	100		
122	87.8	61.8	92.6
77	69.6	62.2	93.4

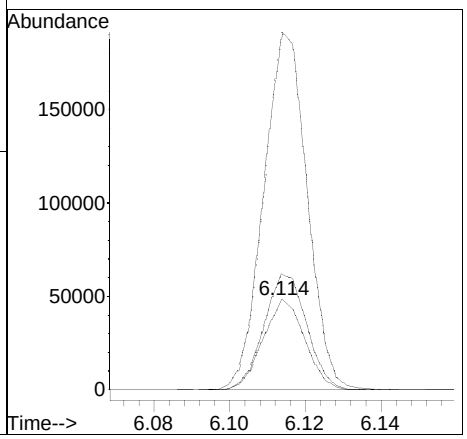


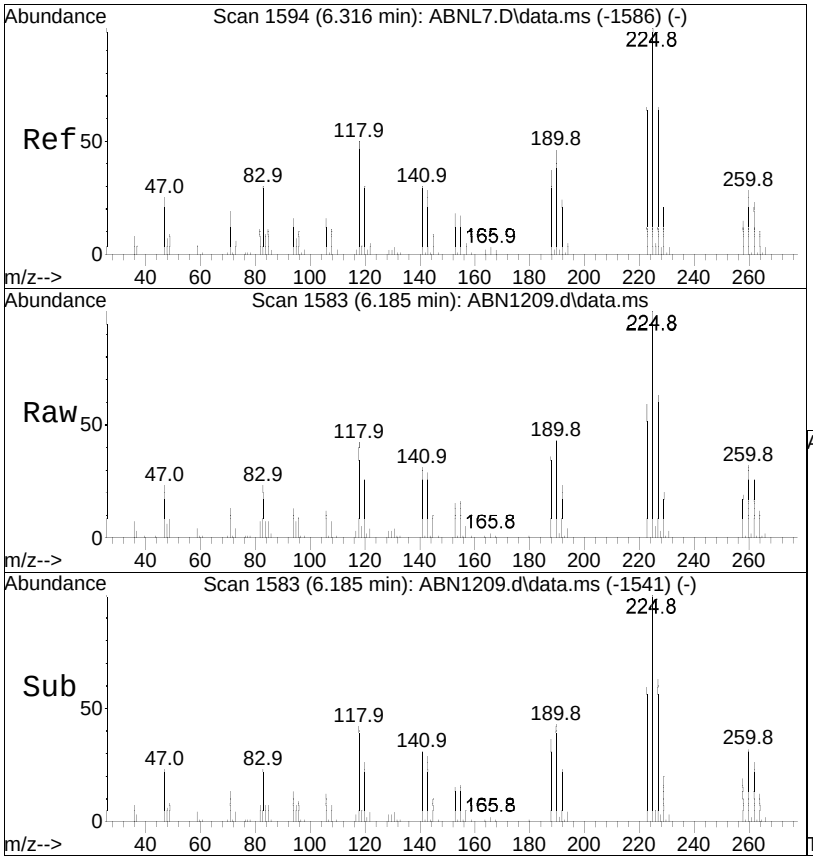


#37
4-Chloroaniline
Concen: 41.55 ug/ml
RT: 6.114 min Scan# 1558
Delta R.T. -0.006 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion: 65 Resp: 37038

Ion	Ratio	Lower	Upper
65	100		
127	411.2	233.2	349.8#
129	131.6	74.6	111.8#

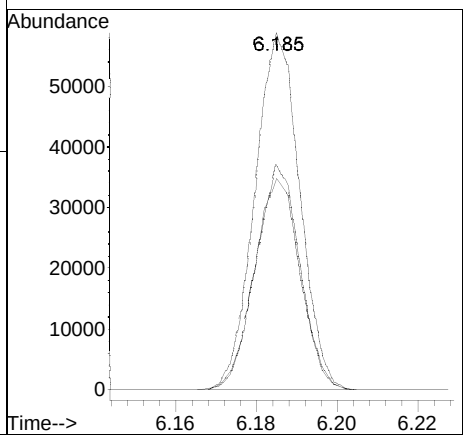


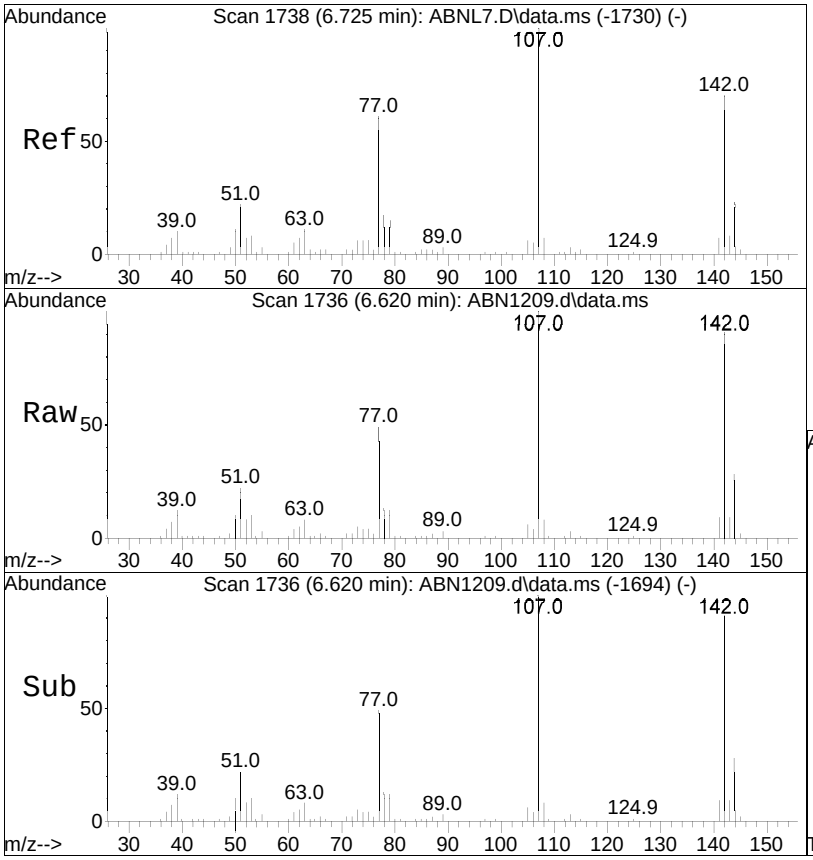


#38
Hexachlorobutadiene
Concen: 50.06 ug/ml
RT: 6.185 min Scan# 1583
Delta R.T. -0.006 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion:225 Resp: 45223

Ion	Ratio	Lower	Upper
225	100		
223	60.4	49.4	74.0
227	62.4	50.8	76.2

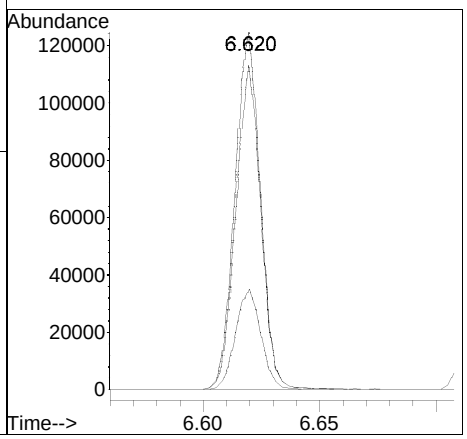


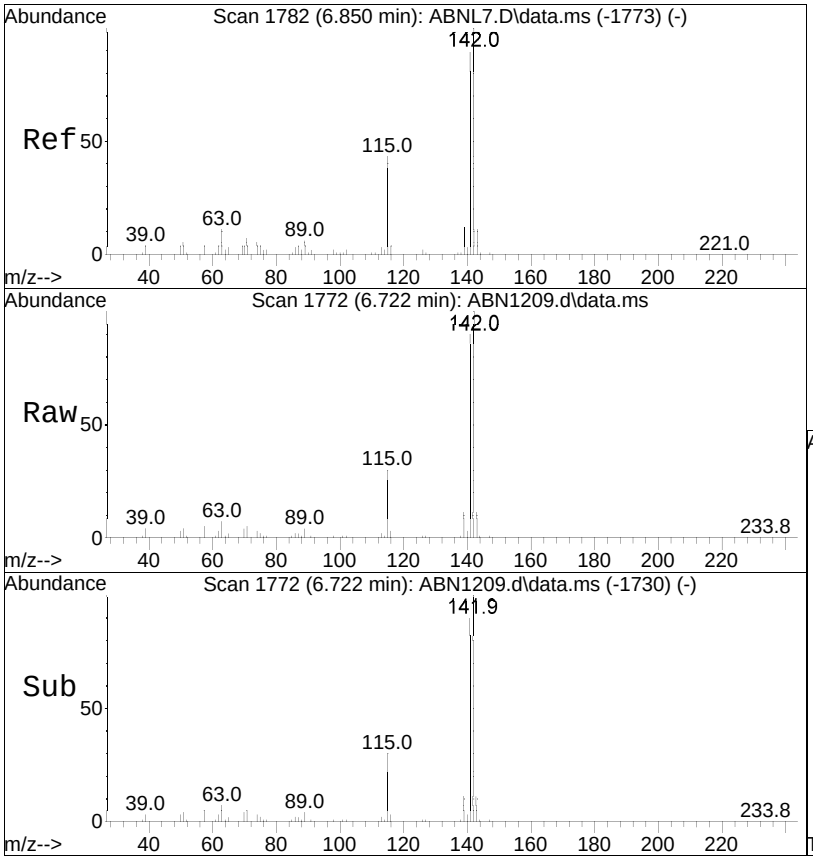


#39
p-Chloro-m-cresol
Concen: 48.08 ug/ml
RT: 6.620 min Scan# 1736
Delta R.T. -0.006 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion:107 Resp: 93345

Ion	Ratio	Lower	Upper
107	100		
144	28.2	19.6	29.4
142	89.2	62.2	93.4

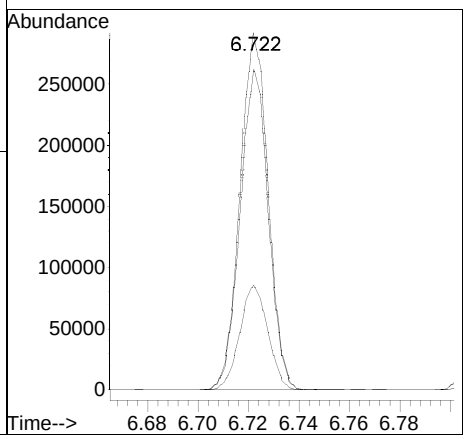


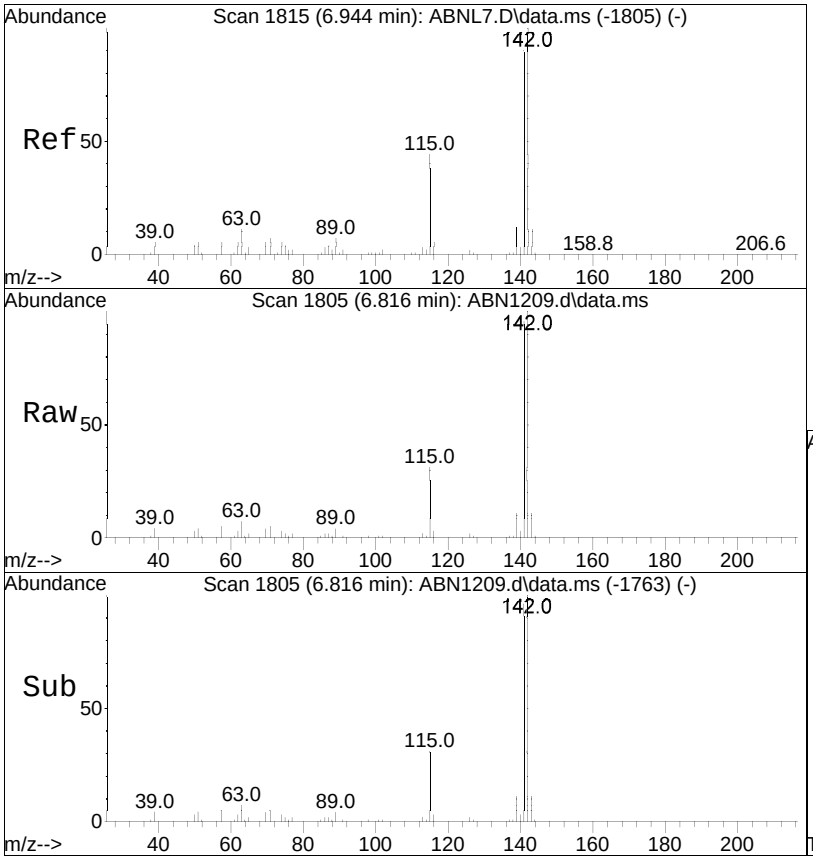


#40
2-Methylnaphthalene
Concen: 48.40 ug/ml
RT: 6.722 min Scan# 1772
Delta R.T. -0.006 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion:142 Resp: 226399

Ion	Ratio	Lower	Upper
142	100		
141	89.6	71.8	107.8
115	29.2	29.1	43.7

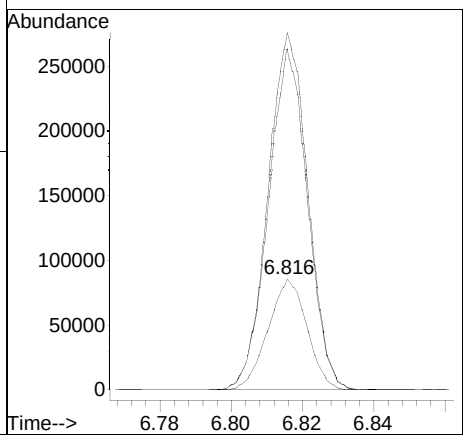


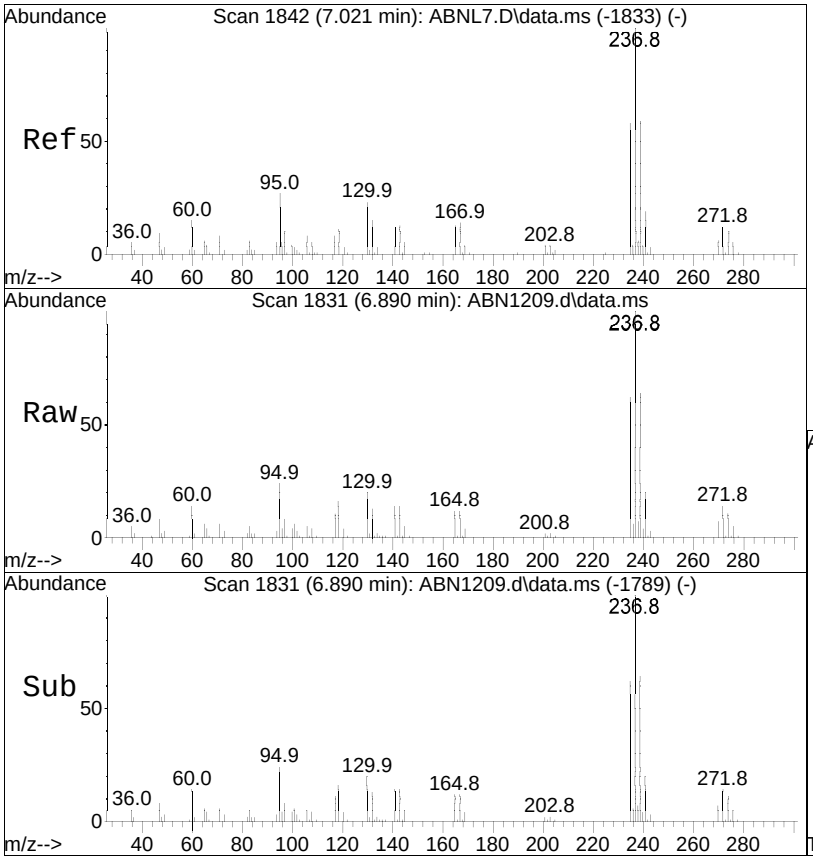


#41
1-Methylnaphthalene
Concen: 43.77 ug/ml
RT: 6.816 min Scan# 1805
Delta R.T. -0.006 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion:115 Resp: 64978

Ion	Ratio	Lower	Upper
115	100		
141	308.4	196.6	294.8#
142	329.5	209.2	313.8#

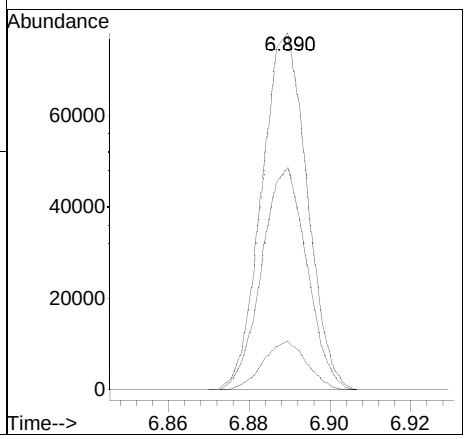


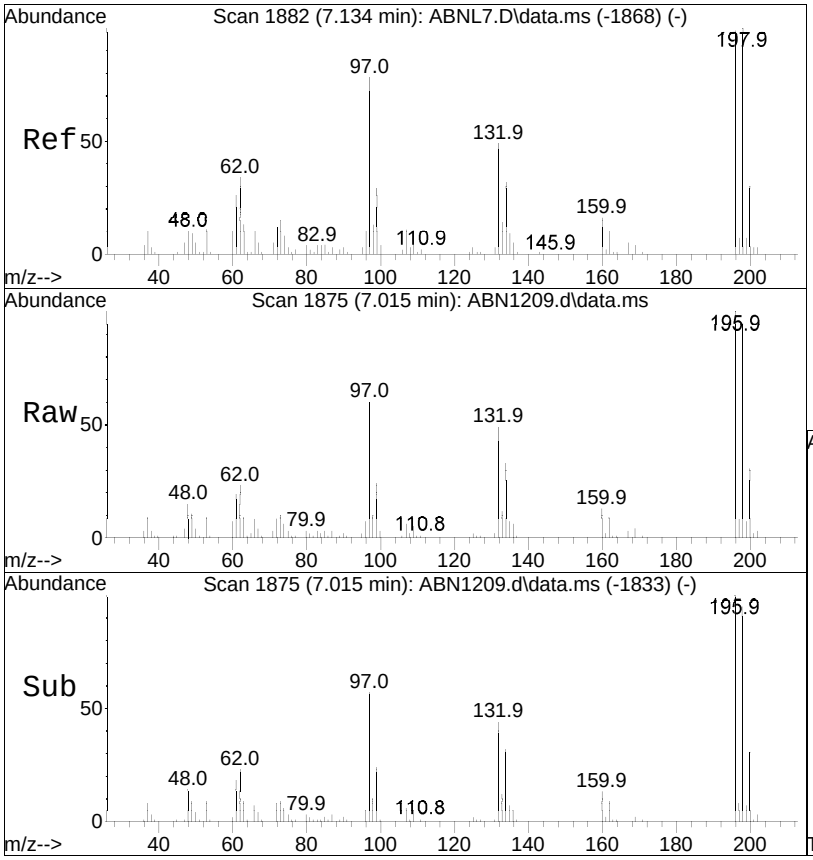


#42
Hexachlorocyclopentadiene
Concen: 55.18 ug/ml
RT: 6.890 min Scan# 1831
Delta R.T. -0.006 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion:237 Resp: 60813

Ion	Ratio	Lower	Upper
237	100		
235	62.2	47.8	71.6
272	13.3	10.4	15.6

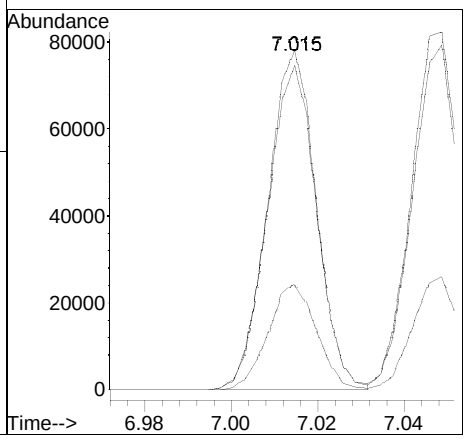


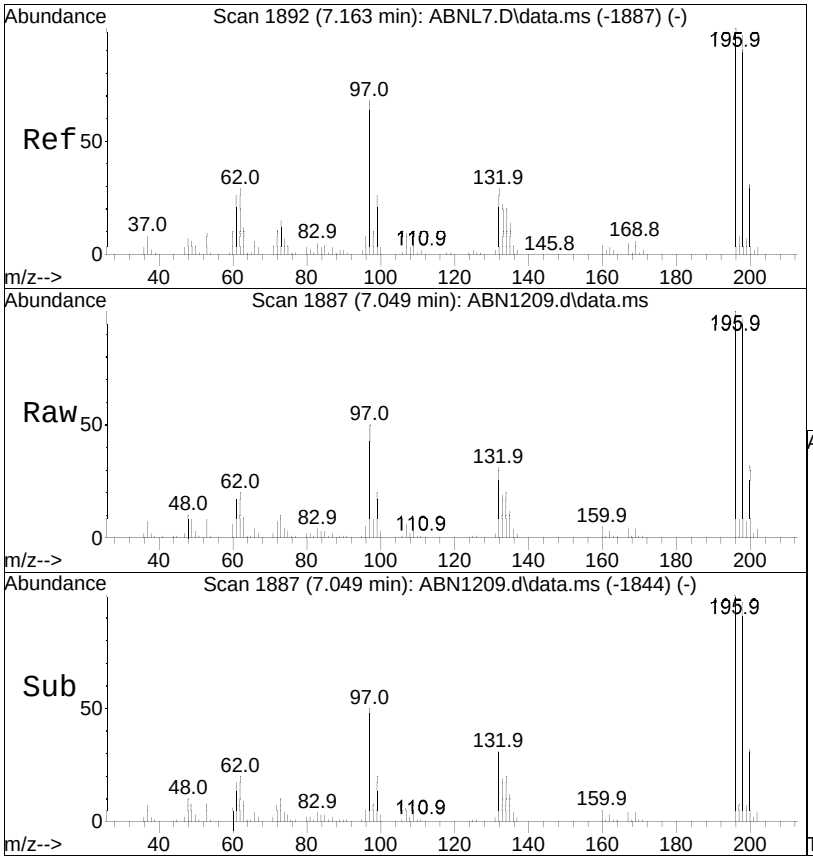


#43
2,4,6-Trichlorophenol
Concen: 50.92 ug/ml
RT: 7.015 min Scan# 1875
Delta R.T. -0.006 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion:196 Resp: 60808

Ion	Ratio	Lower	Upper
196	100		
198	96.2	81.5	122.3
200	30.9	26.2	39.2

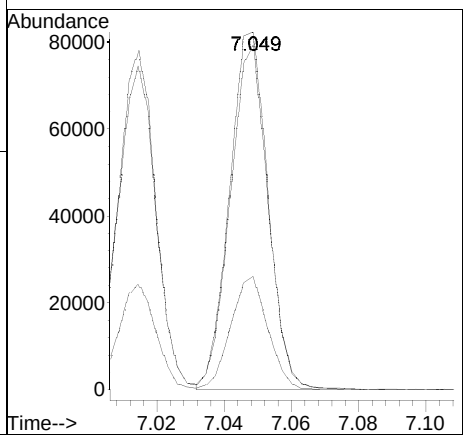


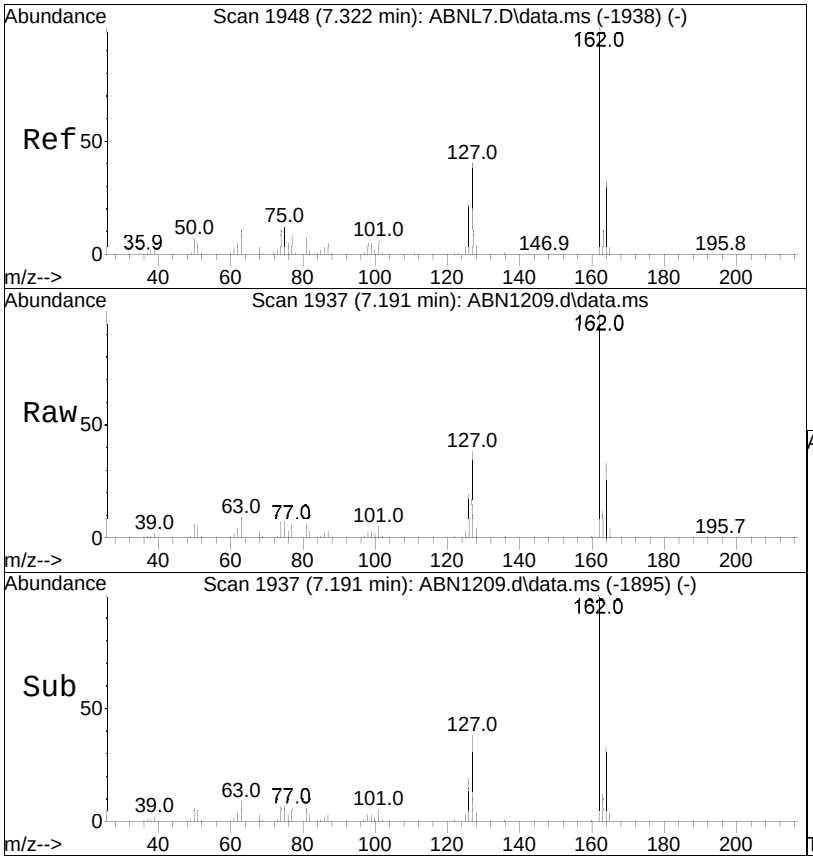


#44
2,4,5-Trichlorophenol
Concen: 52.05 ug/ml
RT: 7.049 min Scan# 1887
Delta R.T. -0.003 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion:196 Resp: 65428

Ion	Ratio	Lower	Upper
196	100		
200	30.5	25.5	38.3
198	94.5	79.2	118.8

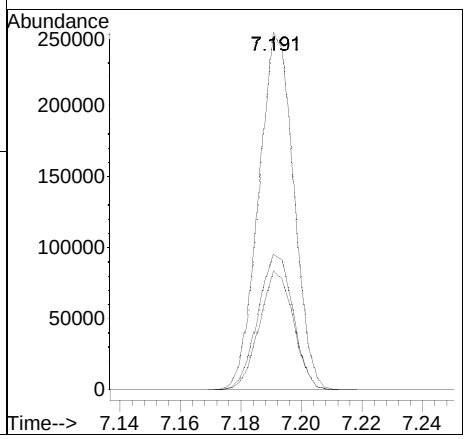


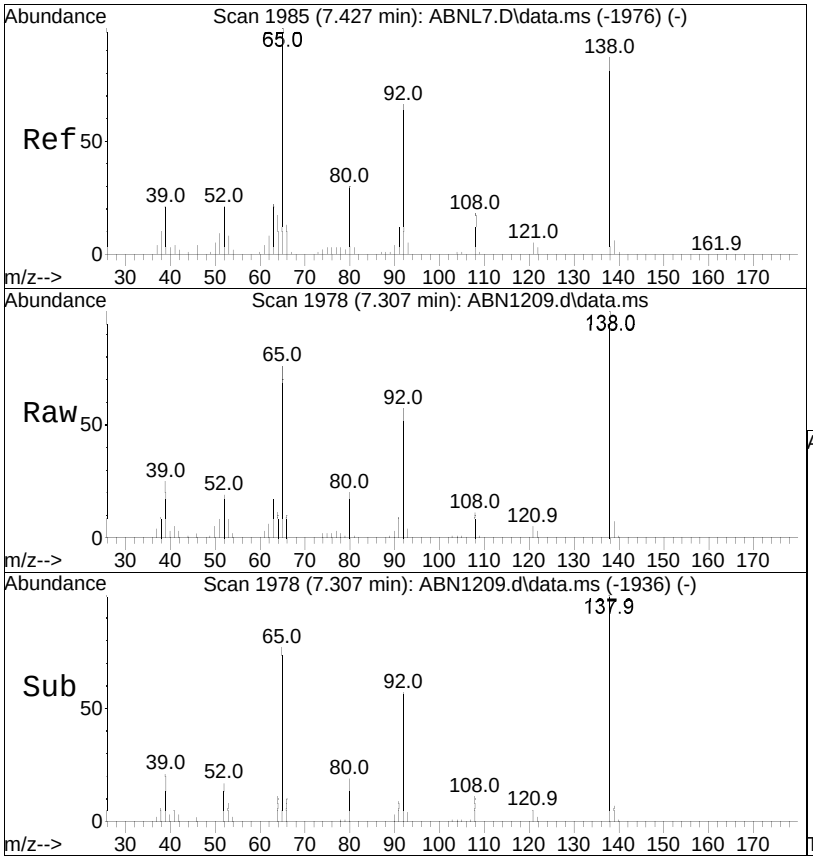


#46
2-Chloronaphthalene
Concen: 49.53 ug/ml
RT: 7.191 min Scan# 1937
Delta R.T. -0.006 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion:162 Resp: 200500

Ion	Ratio	Lower	Upper
162	100		
127	38.3	33.6	50.4
164	32.6	25.8	38.8

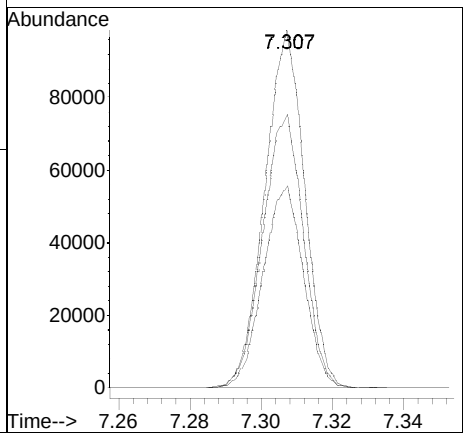


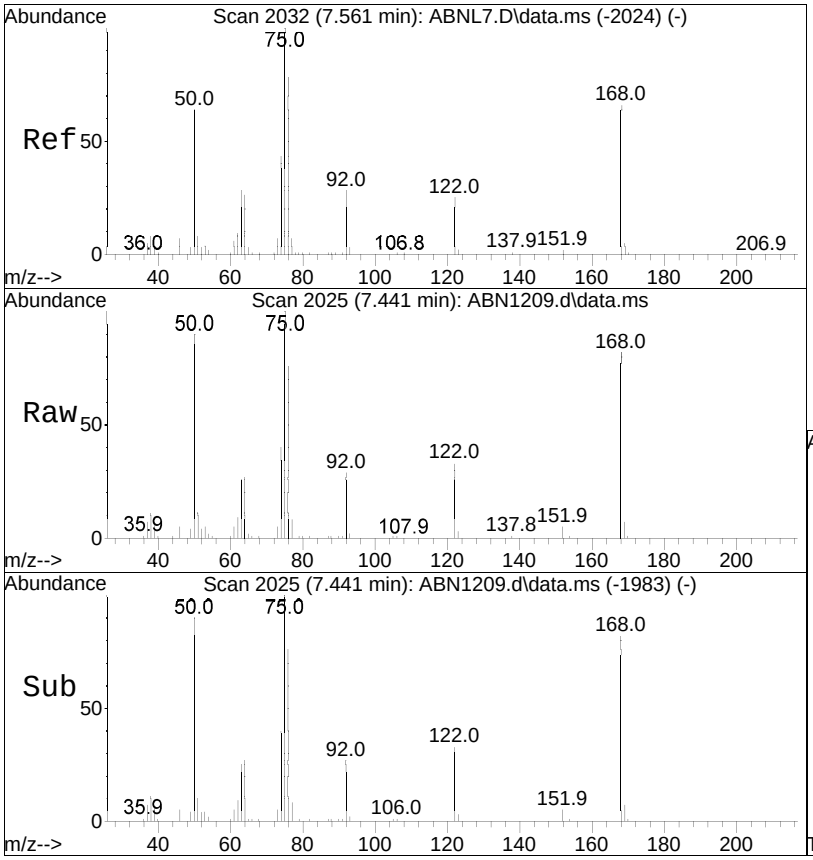


#47
2-Nitroaniline
Concen: 52.59 ug/ml
RT: 7.307 min Scan# 1978
Delta R.T. -0.006 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion:138 Resp: 76180

Ion	Ratio	Lower	Upper
138	100		
92	57.6	54.2	81.2
65	78.2	82.8	124.2#

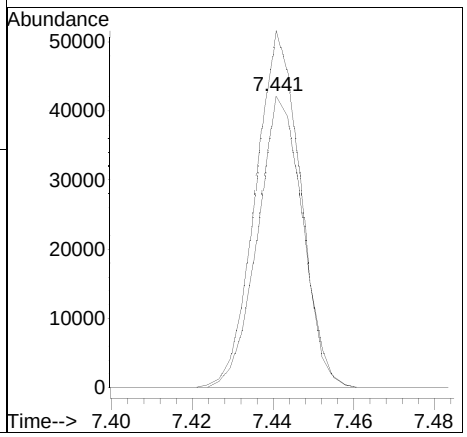


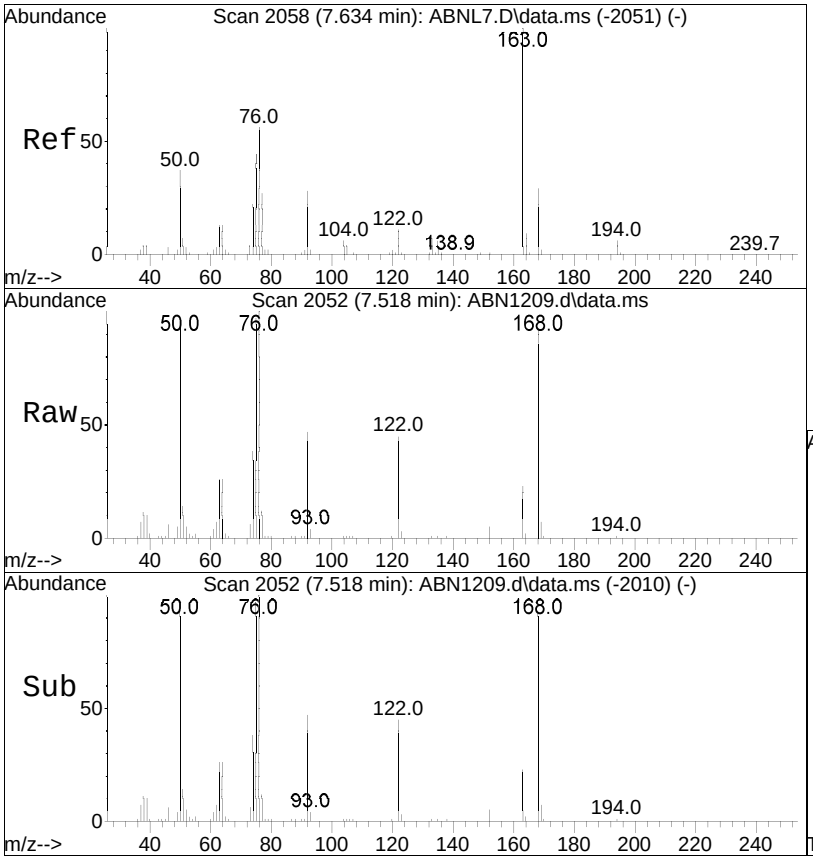


#48
1,4-Dinitrobenzene
Concen: 49.51 ug/ml
RT: 7.441 min Scan# 2025
Delta R.T. -0.006 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion:168 Resp: 32694

Ion	Ratio	Lower	Upper
168	100		
75	121.4	120.1	180.1

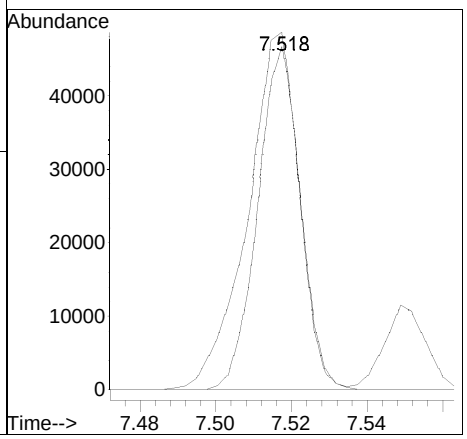


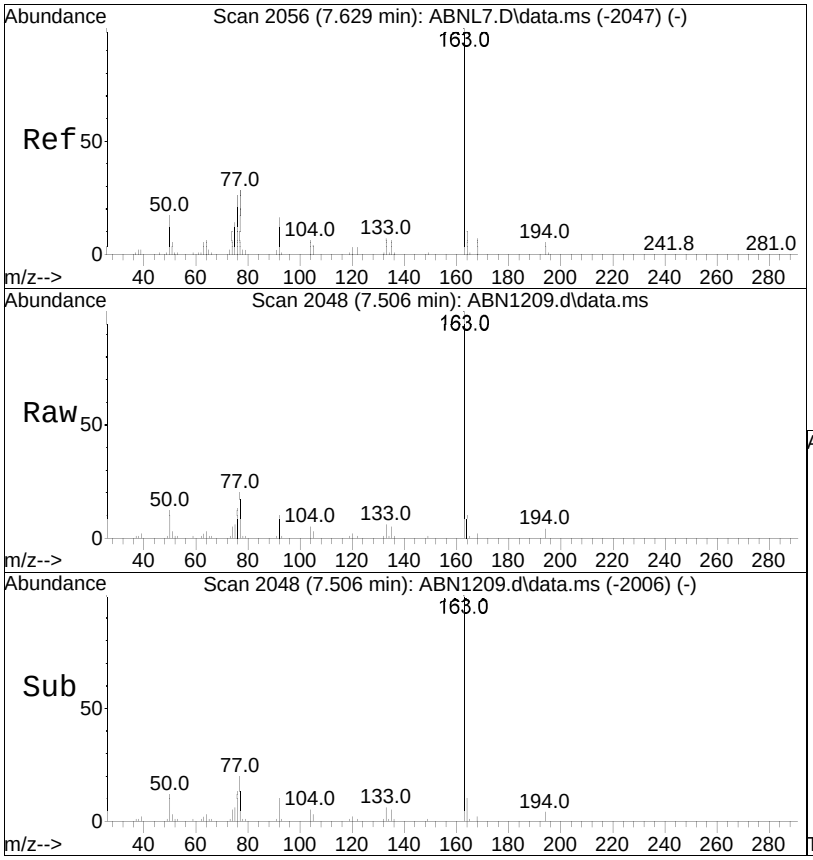


#49
1,3-Dinitrobenzene
Concen: 50.37 ug/ml
RT: 7.518 min Scan# 2052
Delta R.T. -0.006 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion:168 Resp: 36466

Ion	Ratio	Lower	Upper
168	100		
75	125.4	123.2	184.8

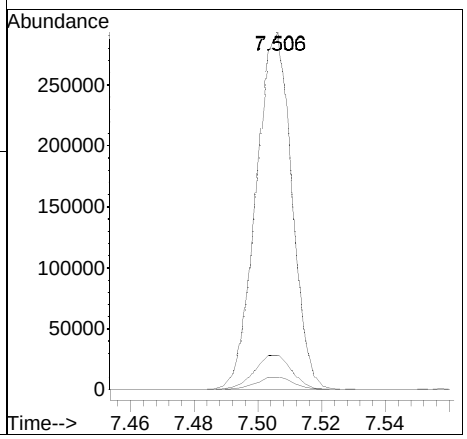


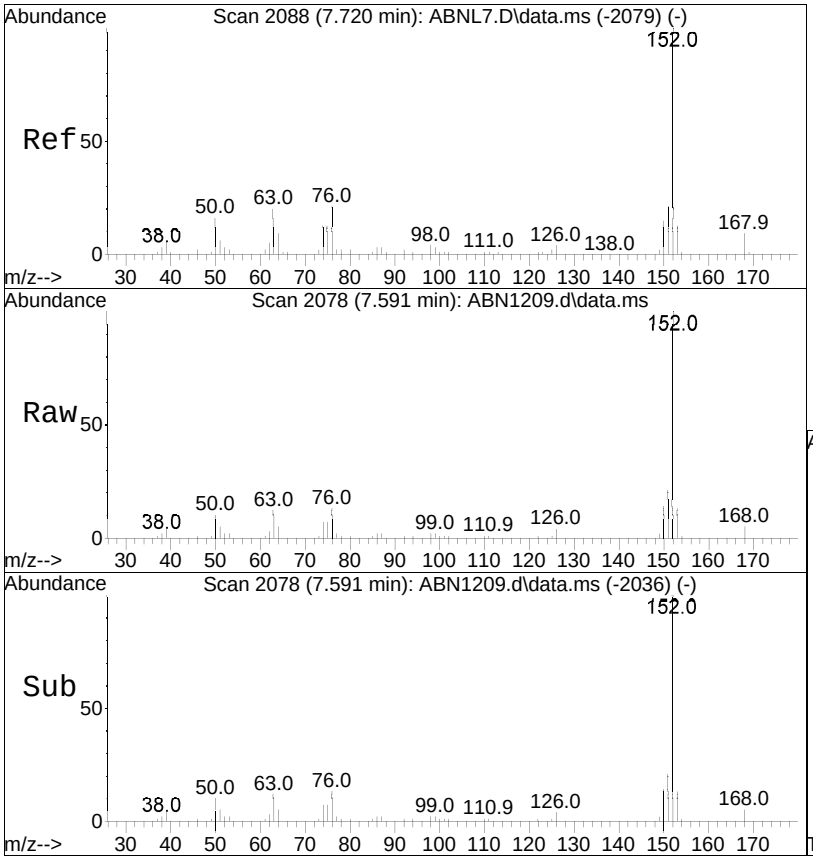


#50
Dimethyl phthalate
Concen: 49.24 ug/ml
RT: 7.506 min Scan# 2048
Delta R.T. -0.006 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion:163 Resp: 225541

Ion	Ratio	Lower	Upper
163	100		
194	3.4	2.6	4.0
164	10.2	8.2	12.4

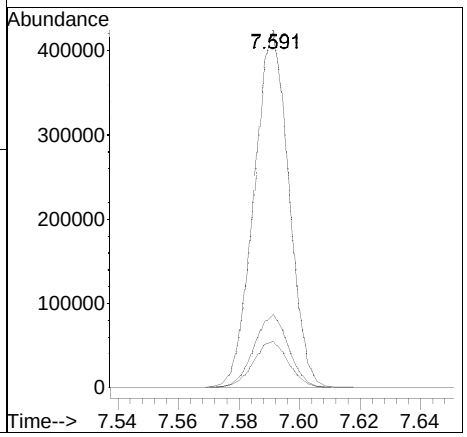


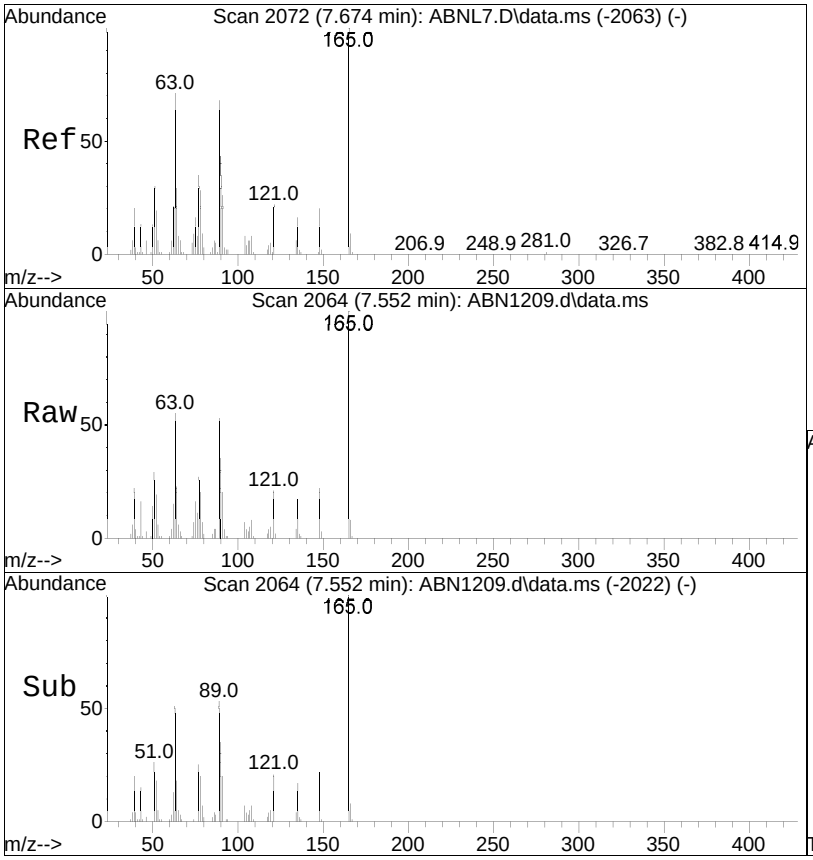


#51
Acenaphthylene
Concen: 50.17 ug/ml
RT: 7.591 min Scan# 2078
Delta R.T. -0.006 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion:152 Resp: 334753

Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.4	24.6
153	13.2	11.0	16.6

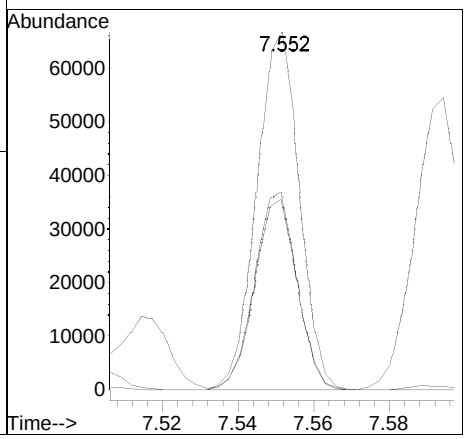


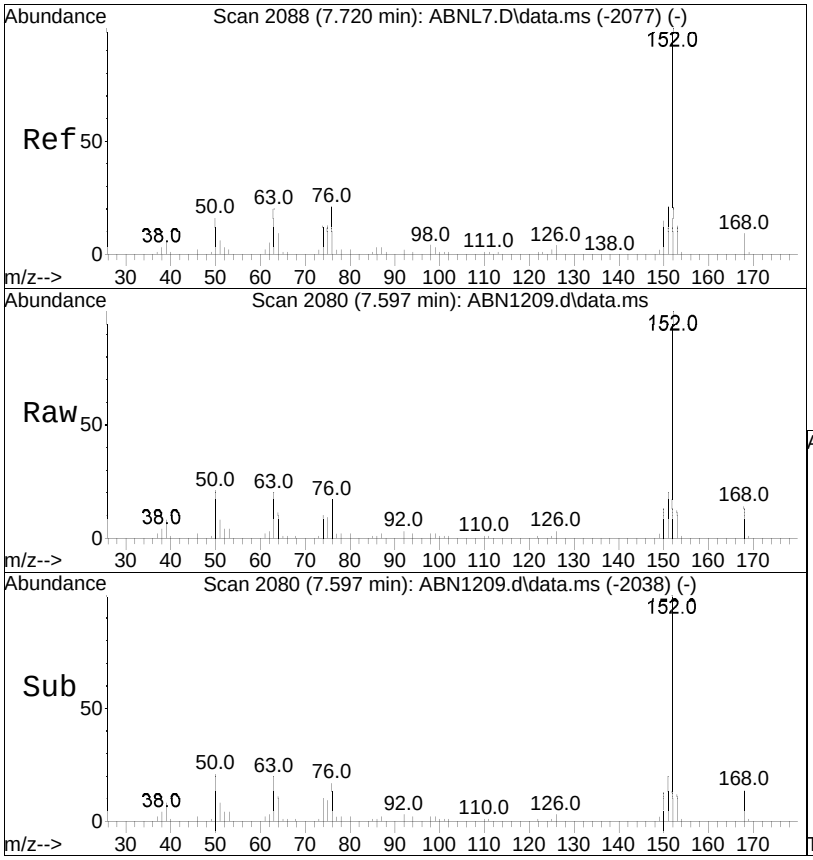


#52
2,6-Dinitrotoluene
Concen: 52.10 ug/ml
RT: 7.552 min Scan# 2064
Delta R.T. -0.006 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion:165 Resp: 52439

Ion	Ratio	Lower	Upper
165	100		
89	53.1	50.4	75.6
63	54.6	56.9	85.3#

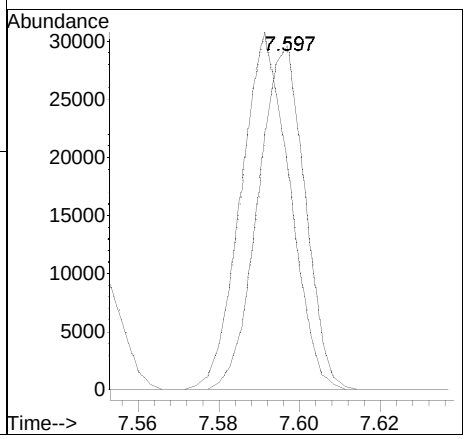


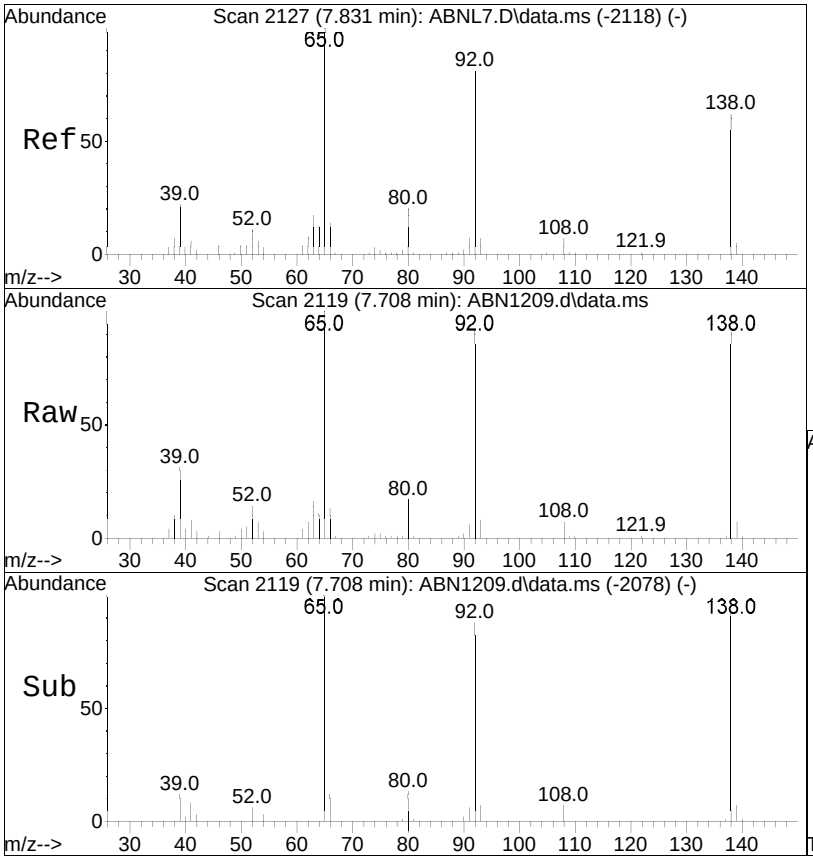


#53
1,2-Dinitrobenzene
Concen: 50.22 ug/ml
RT: 7.597 min Scan# 2080
Delta R.T. -0.006 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion:168 Resp: 23749

Ion	Ratio	Lower	Upper
168	100		
75	108.0	105.0	157.6

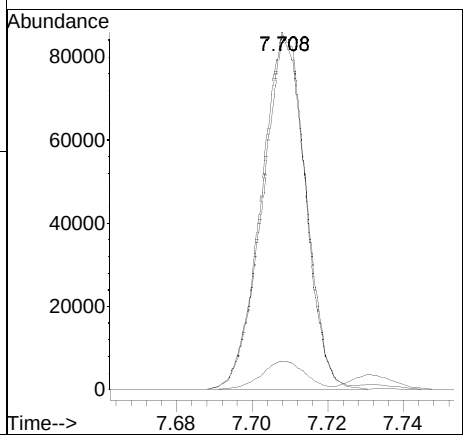


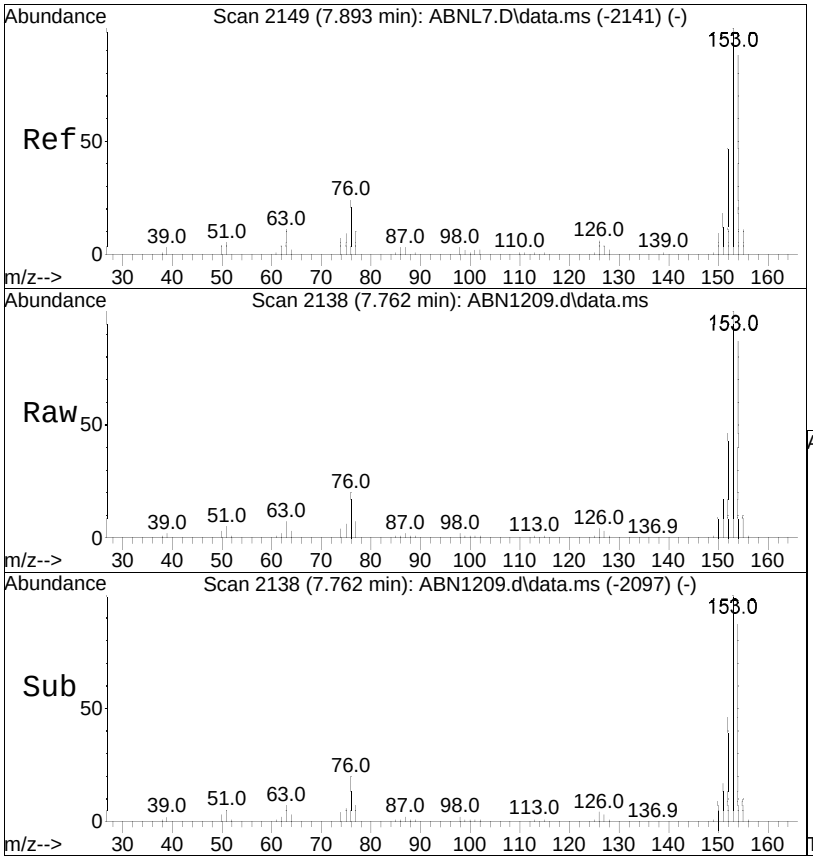


#63
3-Nitroaniline
Concen: 48.62 ug/ml
RT: 7.708 min Scan# 2119
Delta R.T. -0.009 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion:138 Resp: 67499

Ion	Ratio	Lower	Upper
138	100		
92	101.2	95.4	143.2
108	8.2	8.6	12.8#

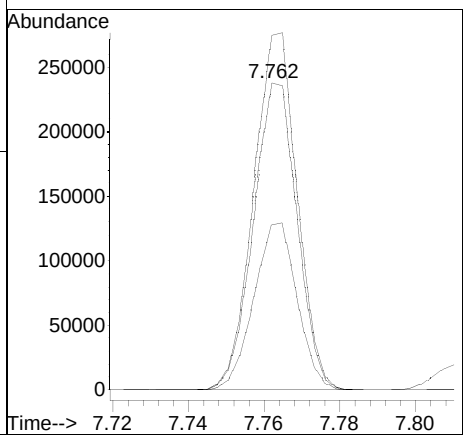


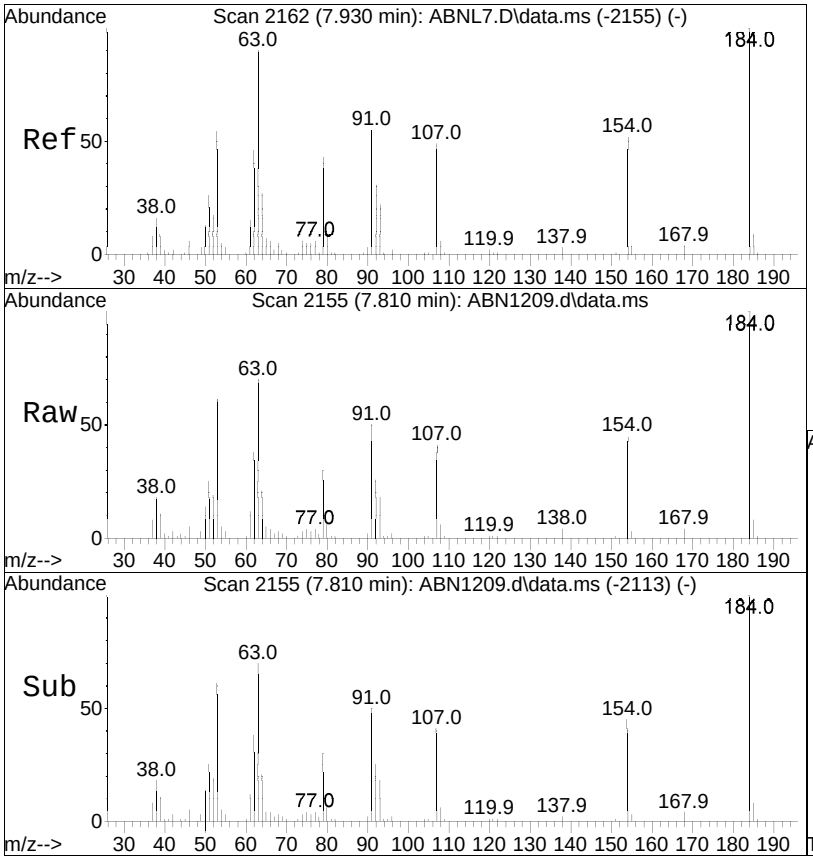


#64
Acenaphthene
Concen: 43.74 ug/ml
RT: 7.762 min Scan# 2138
Delta R.T. -0.009 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion:154 Resp: 190582

Ion	Ratio	Lower	Upper
154	100		
153	116.0	91.3	136.9
152	54.0	41.0	61.4

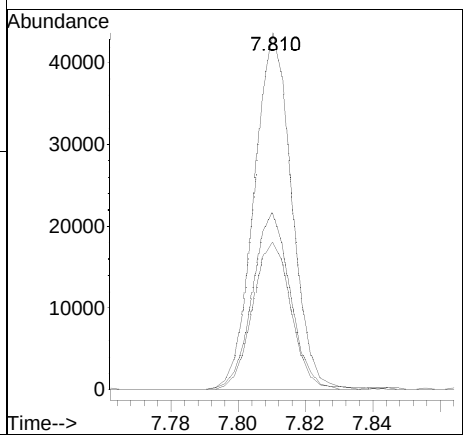


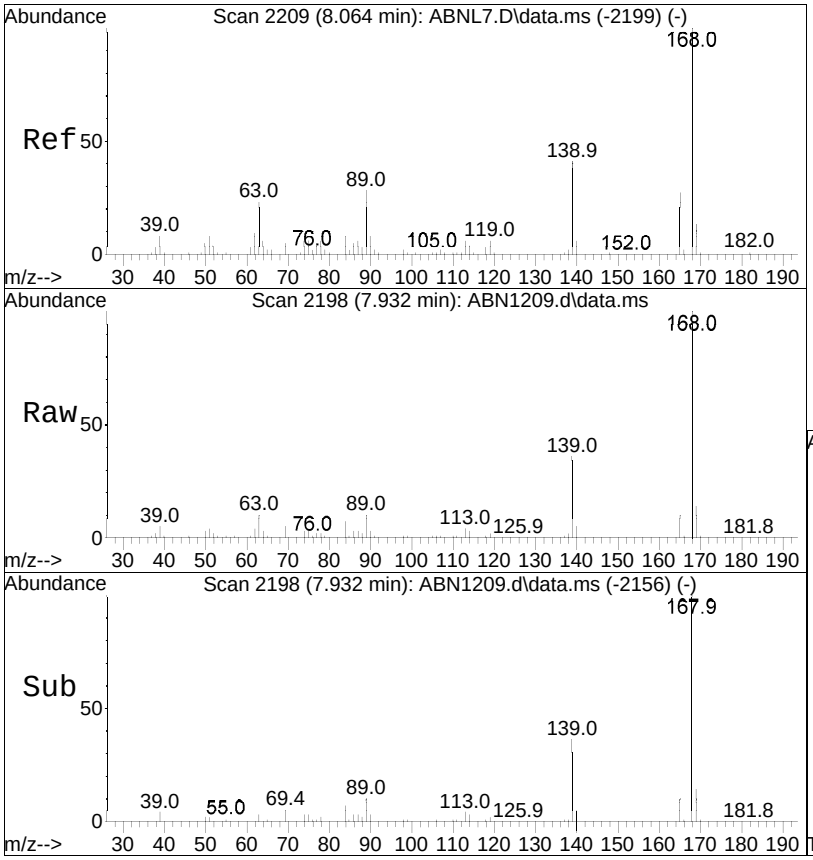


#65
2,4-Dinitrophenol
Concen: 43.67 ug/ml
RT: 7.810 min Scan# 2155
Delta R.T. -0.006 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion:184 Resp: 33810

Ion	Ratio	Lower	Upper
184	100		
107	42.2	41.8	62.6
91	50.1	46.1	69.1

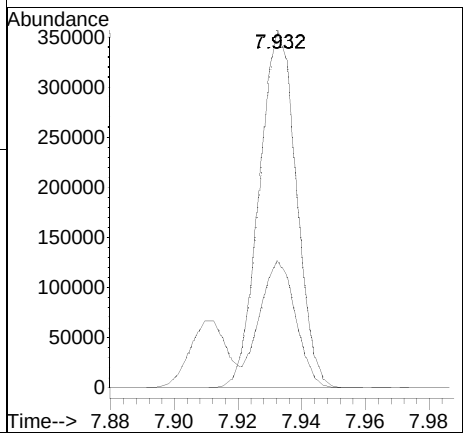


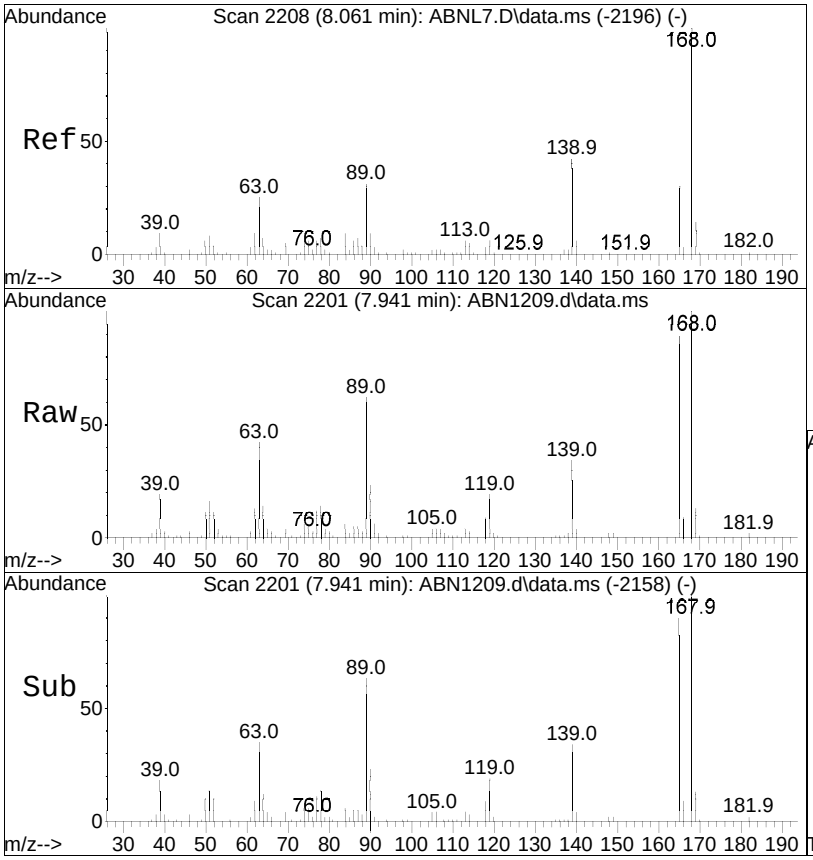


#66
Dibenzofuran
Concen: 44.95 ug/ml
RT: 7.932 min Scan# 2198
Delta R.T. -0.006 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion:168 Resp: 285360

Ion	Ratio	Lower	Upper
168	100		
139	34.3	33.2	49.8

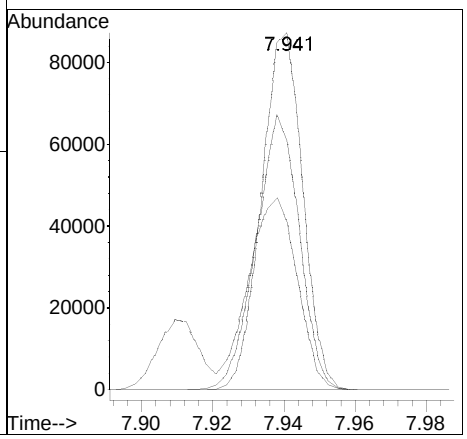


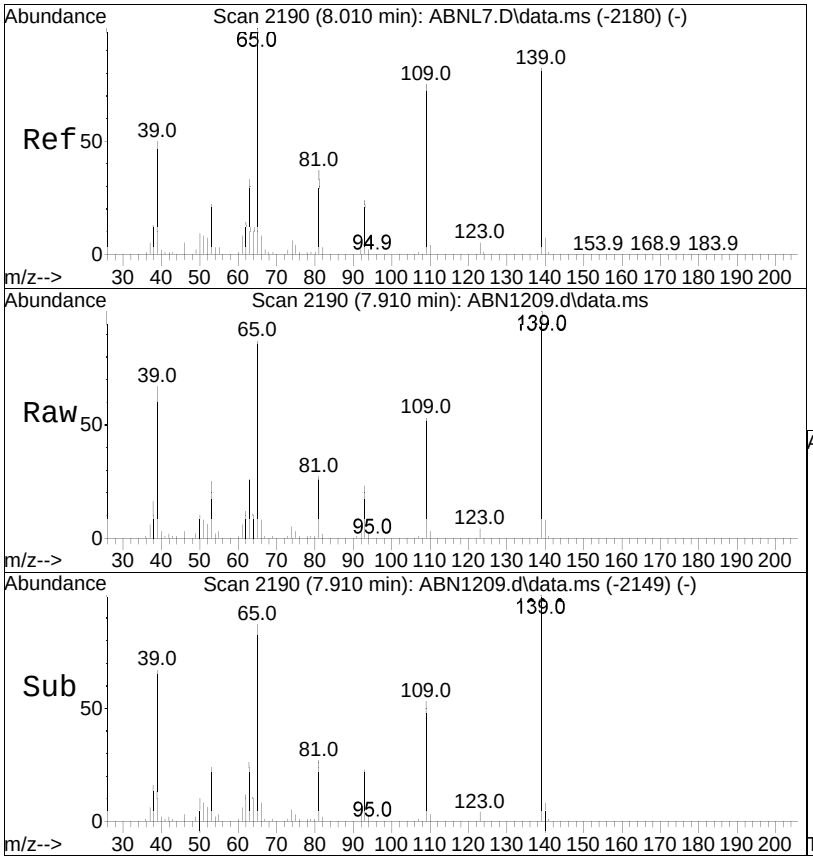


#67
2,4-Dinitrotoluene
Concen: 47.24 ug/ml
RT: 7.941 min Scan# 2201
Delta R.T. -0.003 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion:165 Resp: 69883

Ion	Ratio	Lower	Upper
165	100		
89	80.8	75.7	113.5
63	63.7	62.6	94.0

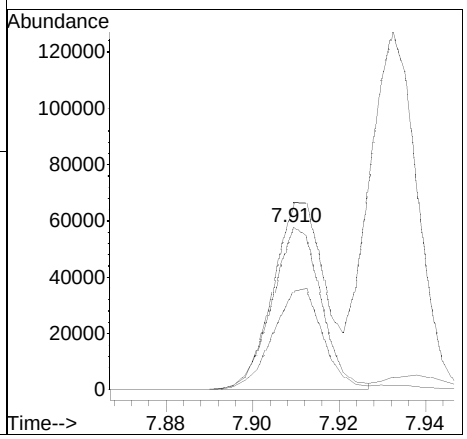


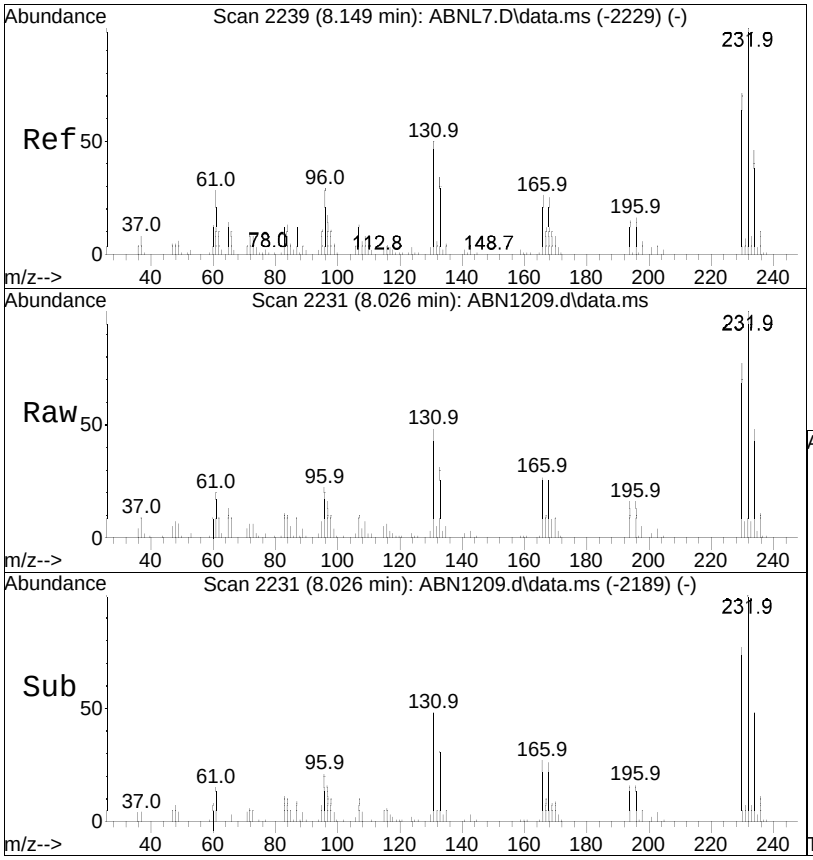


#68
4-Nitrophenol
Concen: 37.90 ug/ml
RT: 7.910 min Scan# 2190
Delta R.T. -0.009 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion: 65 Resp: 45777

Ion	Ratio	Lower	Upper
65	100		
109	62.8	55.4	83.2
139	122.3	72.9	109.3#

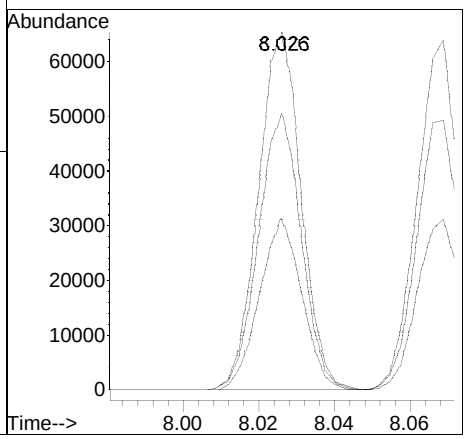


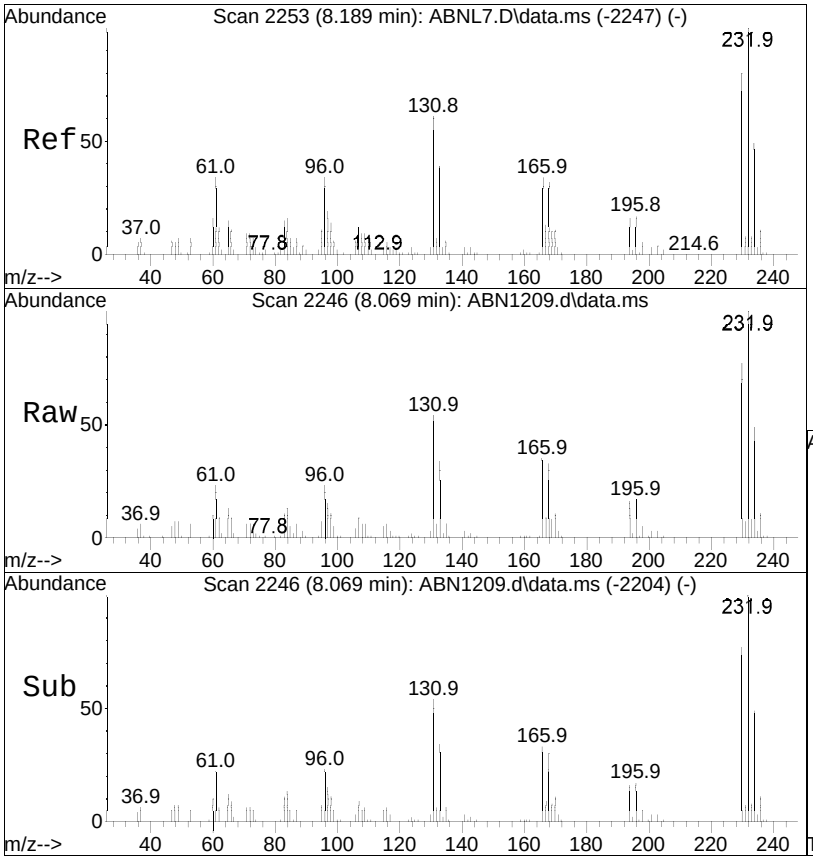


#69
2,3,5,6-Tetrachlorophenol
Concen: 46.84 ug/ml
RT: 8.026 min Scan# 2231
Delta R.T. -0.006 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion:232 Resp: 51347

Ion	Ratio	Lower	Upper
232	100		
230	77.5	65.0	97.6
234	47.4	37.8	56.8

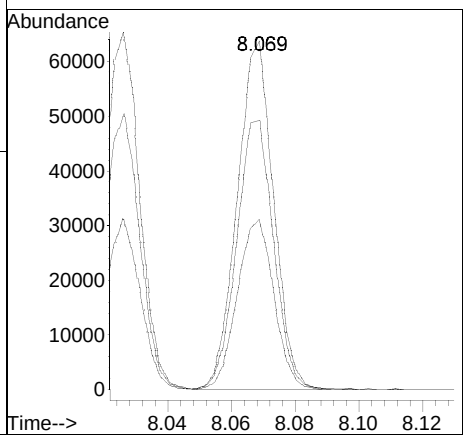


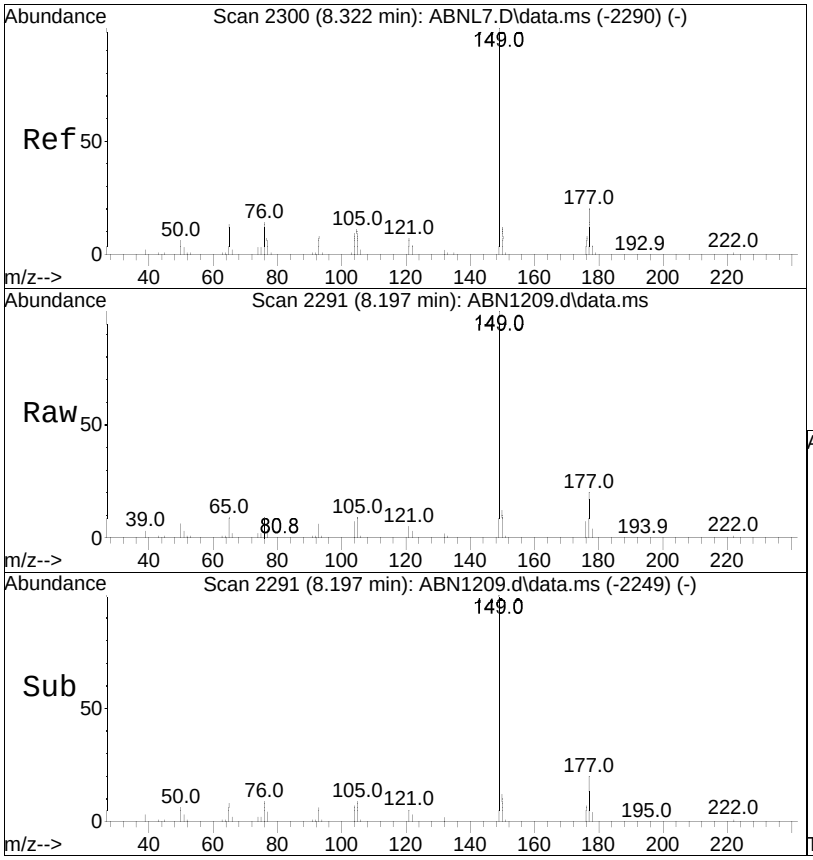


#70
2,3,4,6-Tetrachlorophenol
Concen: 45.69 ug/ml
RT: 8.069 min Scan# 2246
Delta R.T. -0.006 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion:232 Resp: 50639

Ion	Ratio	Lower	Upper
232	100		
230	78.4	63.7	95.5
234	49.2	38.4	57.6

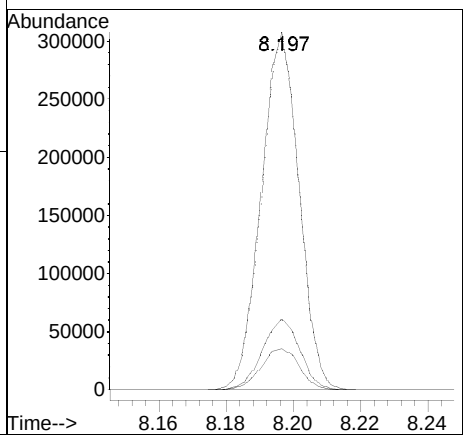


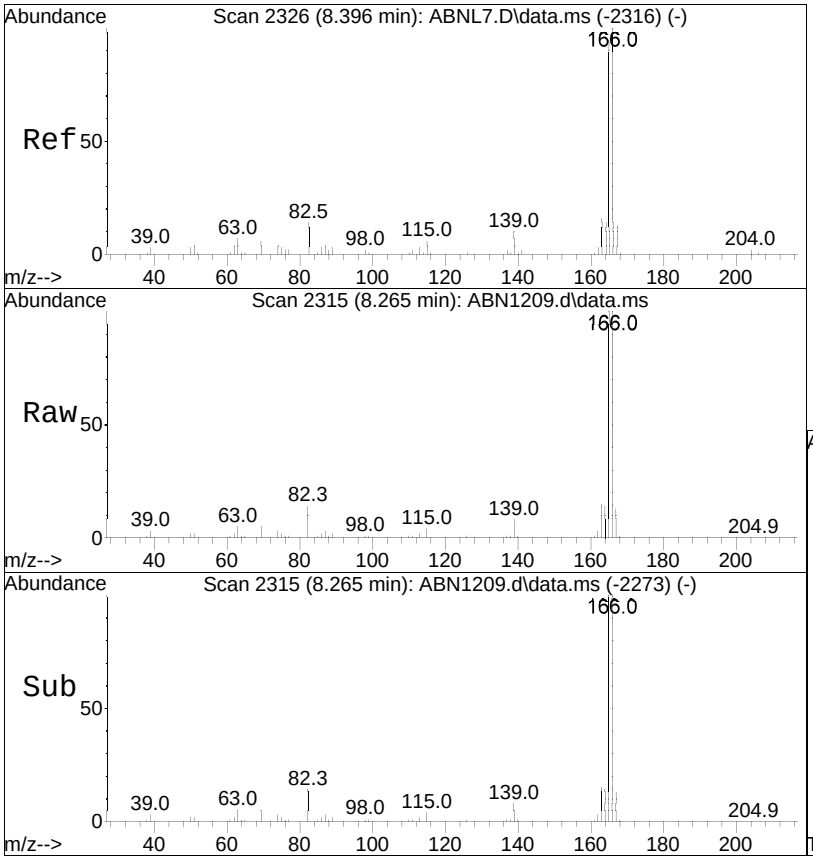


#71
Diethyl phthalate
Concen: 43.70 ug/ml
RT: 8.197 min Scan# 2291
Delta R.T. -0.006 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion:149 Resp: 236899

Ion	Ratio	Lower	Upper
149	100		
177	19.8	15.5	23.3
150	11.9	9.5	14.3

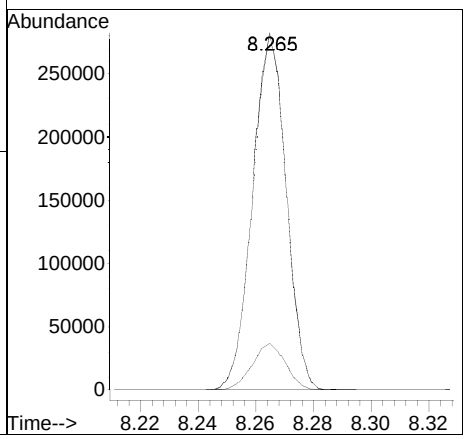


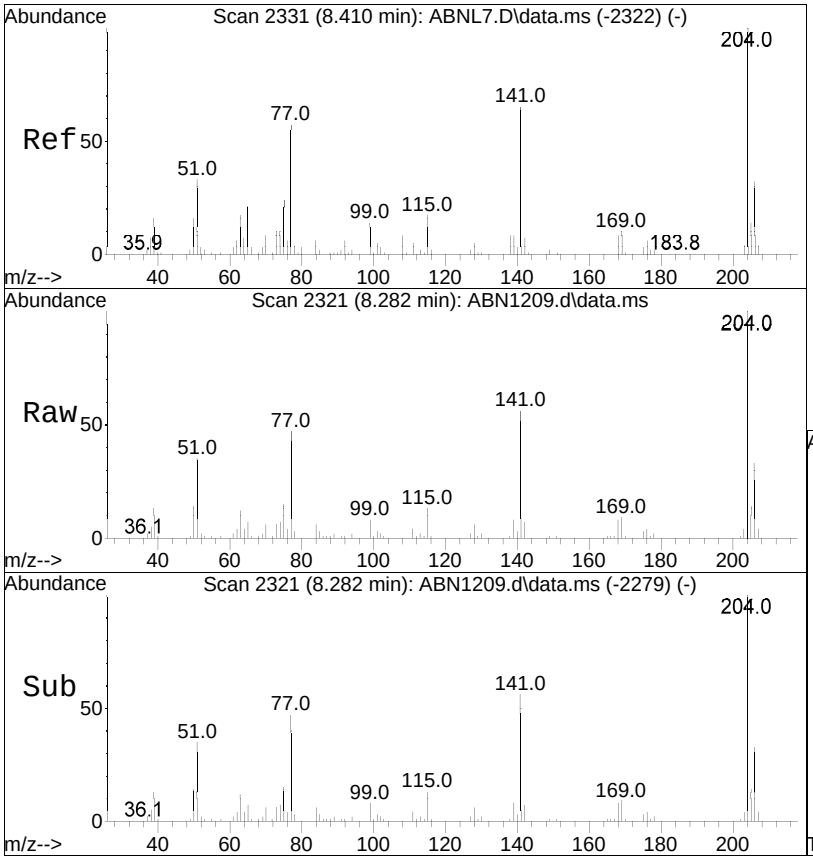


#72
Fluorene
Concen: 44.51 ug/ml
RT: 8.265 min Scan# 2315
Delta R.T. -0.006 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion:166 Resp: 227203

Ion	Ratio	Lower	Upper
166	100		
165	100.1	79.3	118.9
167	13.2	10.6	16.0

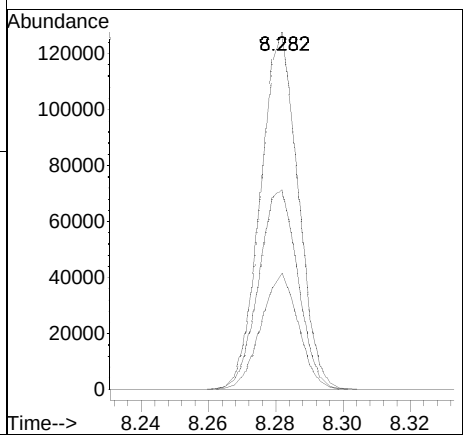


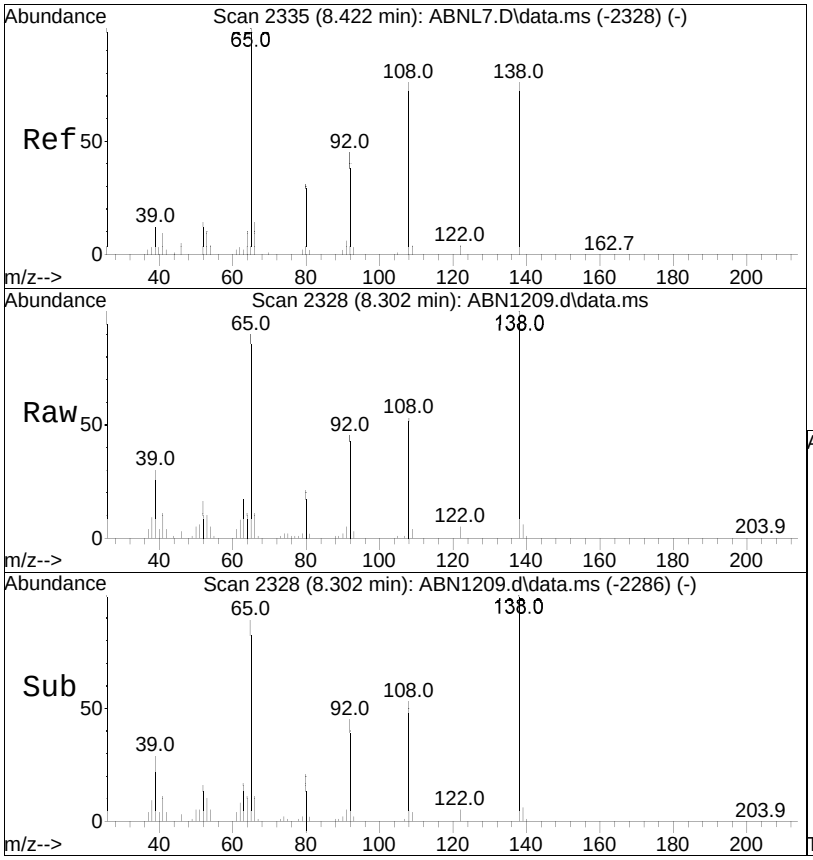


#73
4-Chlorophenyl phenyl ether
Concen: 44.60 ug/ml
RT: 8.282 min Scan# 2321
Delta R.T. -0.006 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion:204 Resp: 98380

Ion	Ratio	Lower	Upper
204	100		
206	32.5	26.2	39.4
141	58.3	57.2	85.8

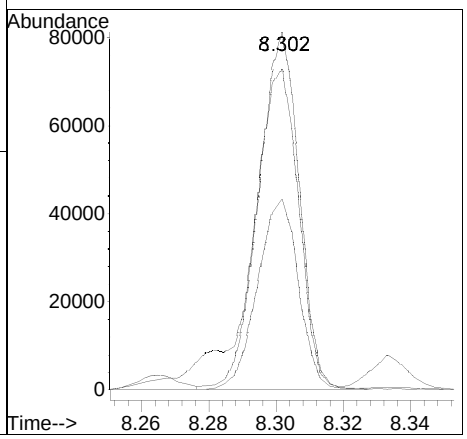


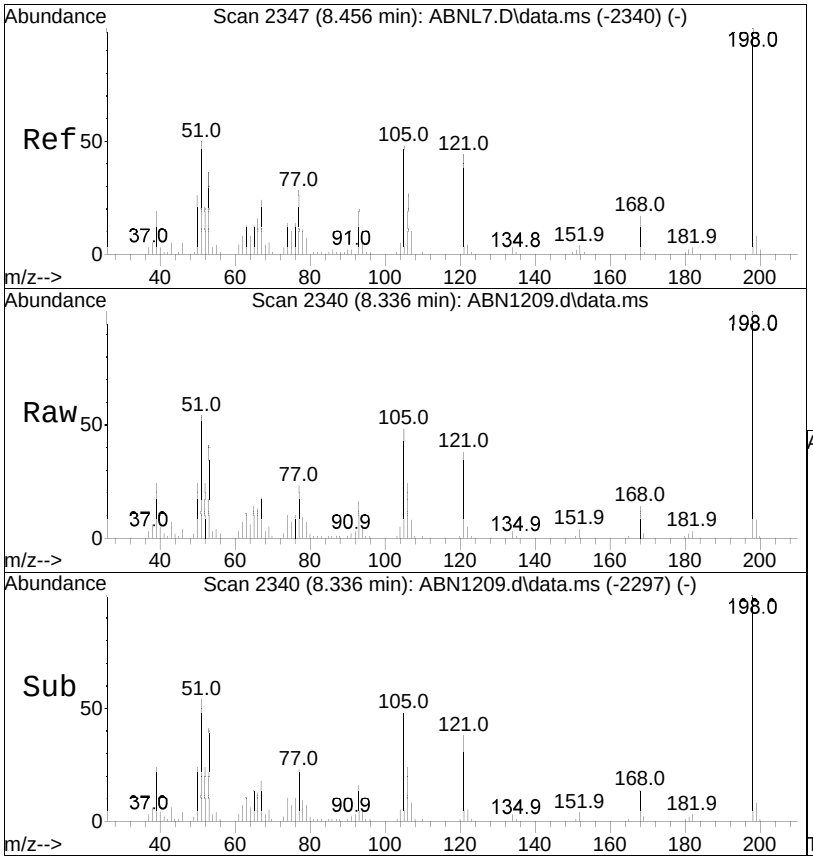


#74
4-Nitroaniline
Concen: 49.52 ug/ml
RT: 8.302 min Scan# 2328
Delta R.T. -0.006 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion:138 Resp: 67809

Ion	Ratio	Lower	Upper
138	100		
108	53.8	62.7	94.1#
65	105.5	107.8	161.6#

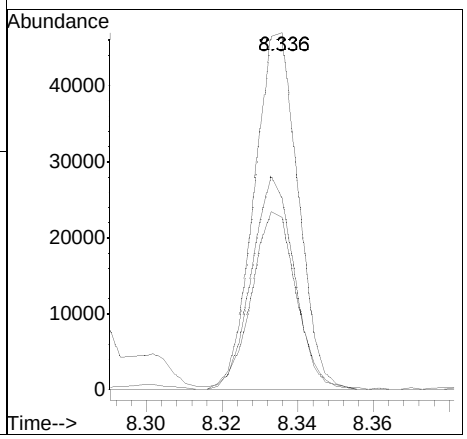


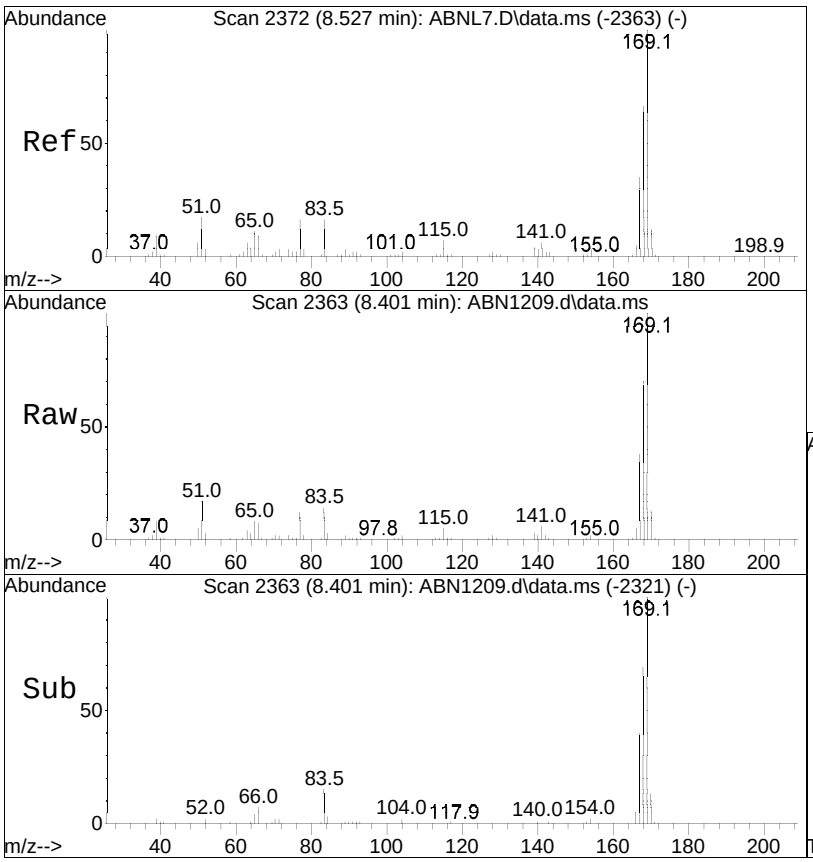


#75
4,6-Dinitro-o-cresol
Concen: 42.70 ug/ml
RT: 8.336 min Scan# 2340
Delta R.T. -0.003 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion:198 Resp: 37819

Ion	Ratio	Lower	Upper
198	100		
51	58.0	59.0	88.4#
105	50.6	45.0	67.6

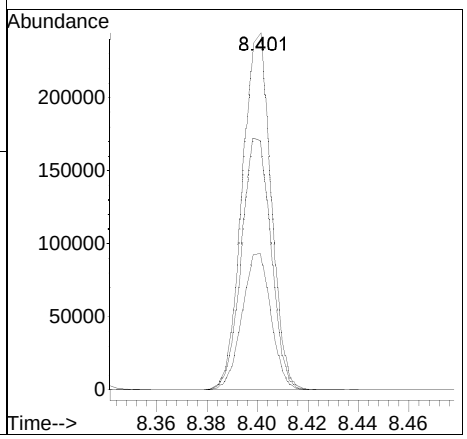


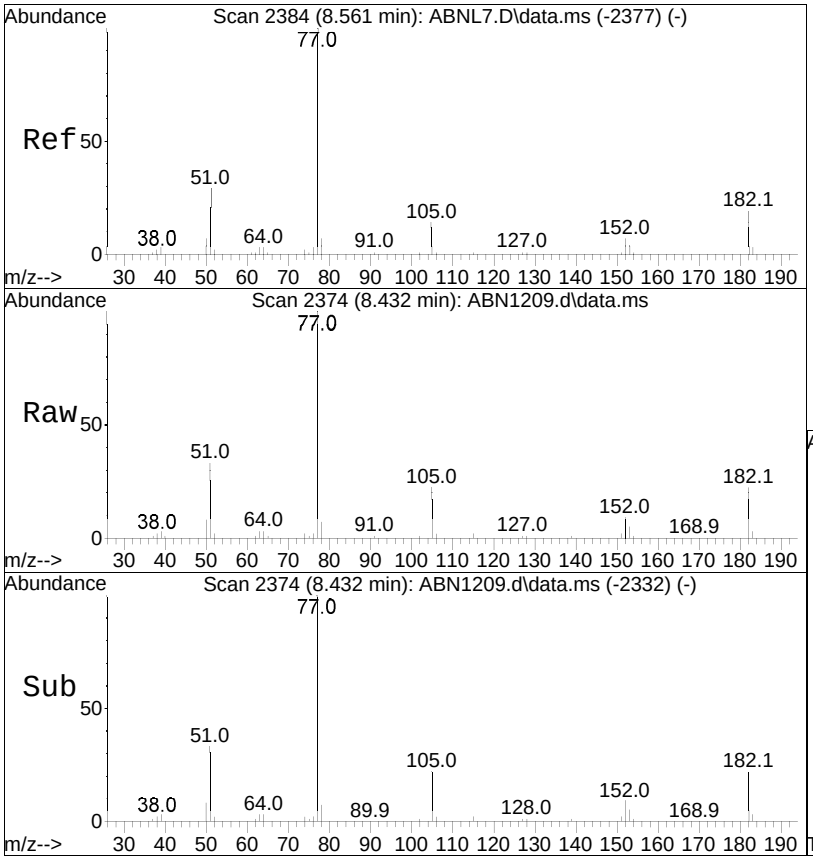


#76
NDPA/DPA
Concen: 44.88 ug/ml
RT: 8.401 min Scan# 2363
Delta R.T. -0.006 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion:169 Resp: 193457

Ion	Ratio	Lower	Upper
169	100		
168	72.2	55.4	83.0
167	38.6	30.3	45.5

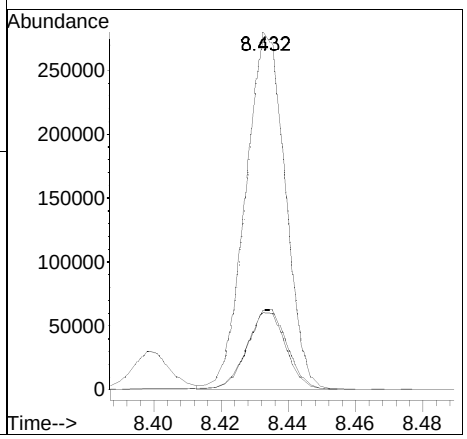


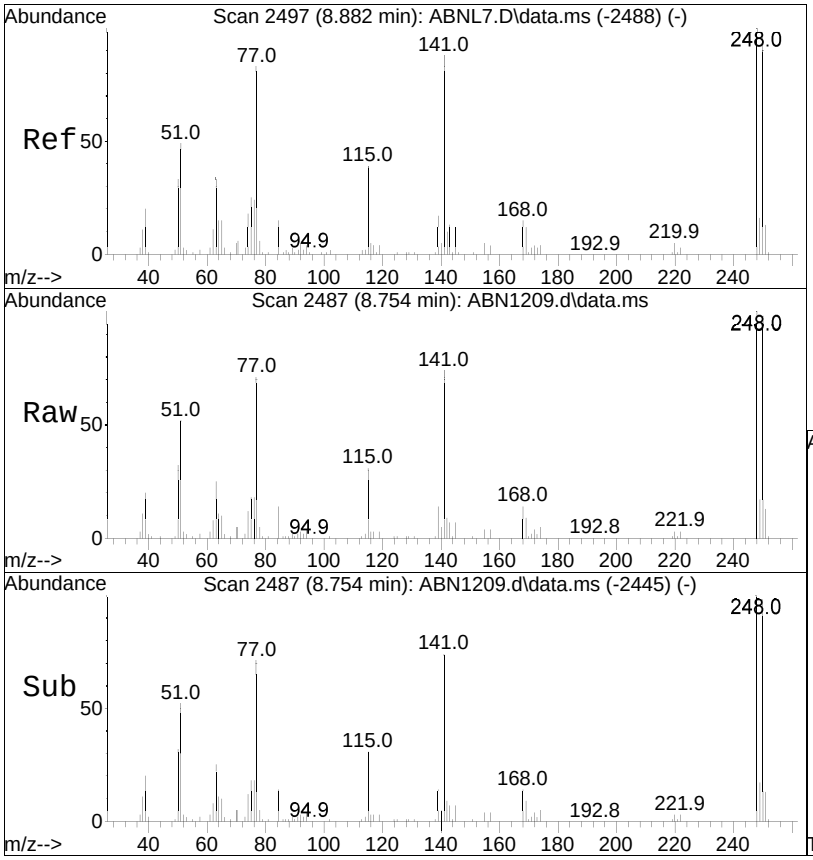


#77
Azobenzene
Concen: 39.44 ug/ml
RT: 8.432 min Scan# 2374
Delta R.T. -0.006 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion: 77 Resp: 227883

Ion	Ratio	Lower	Upper
77	100		
182	22.5	16.0	24.0
105	21.7	15.6	23.4

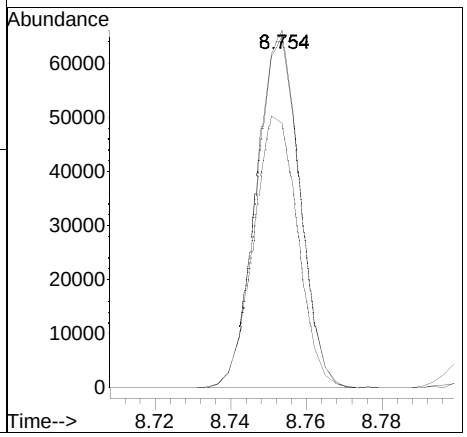


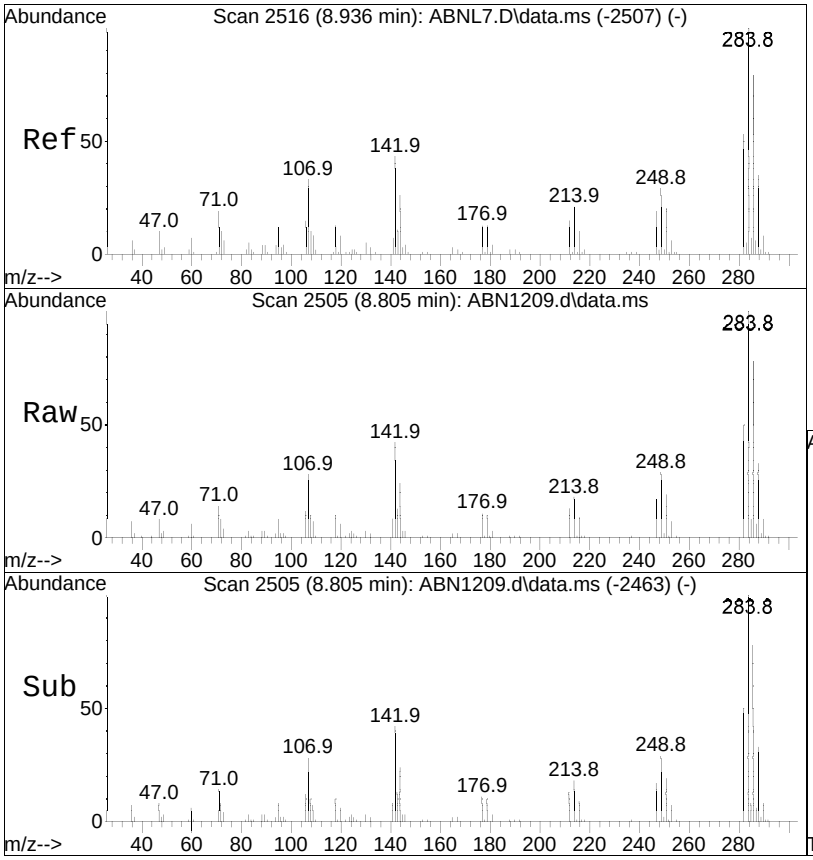


#79
4-Bromophenyl phenyl ether
Concen: 44.08 ug/ml
RT: 8.754 min Scan# 2487
Delta R.T. -0.006 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion:248 Resp: 52311

Ion	Ratio	Lower	Upper
248	100		
141	77.7	76.8	115.2
250	98.5	79.7	119.5

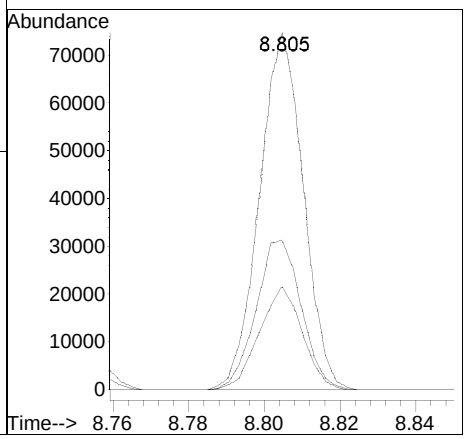


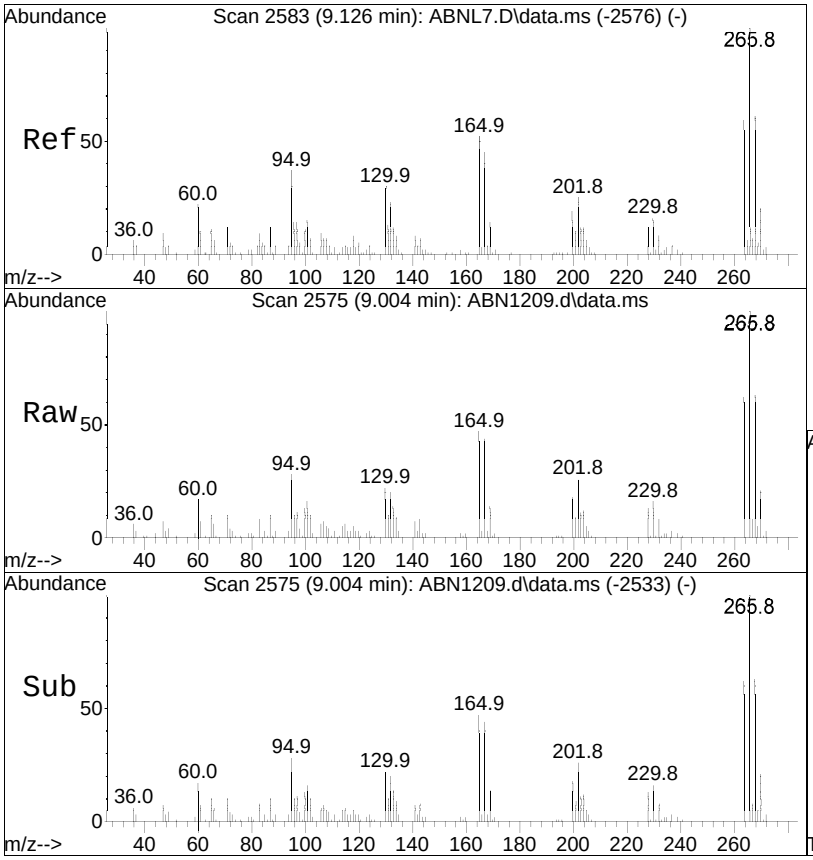


#80
Hexachlorobenzene
Concen: 46.64 ug/ml
RT: 8.805 min Scan# 2505
Delta R.T. -0.006 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion:284 Resp: 59877

Ion	Ratio	Lower	Upper
284	100		
142	43.5	35.8	53.6
249	28.4	24.7	37.1

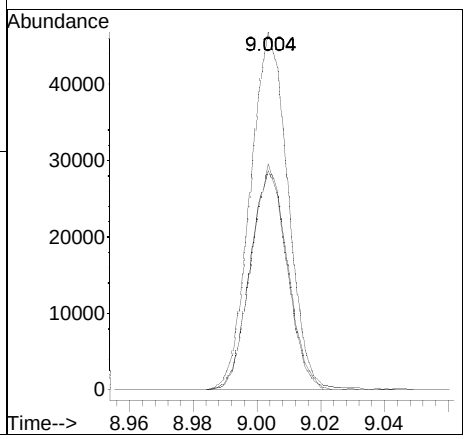


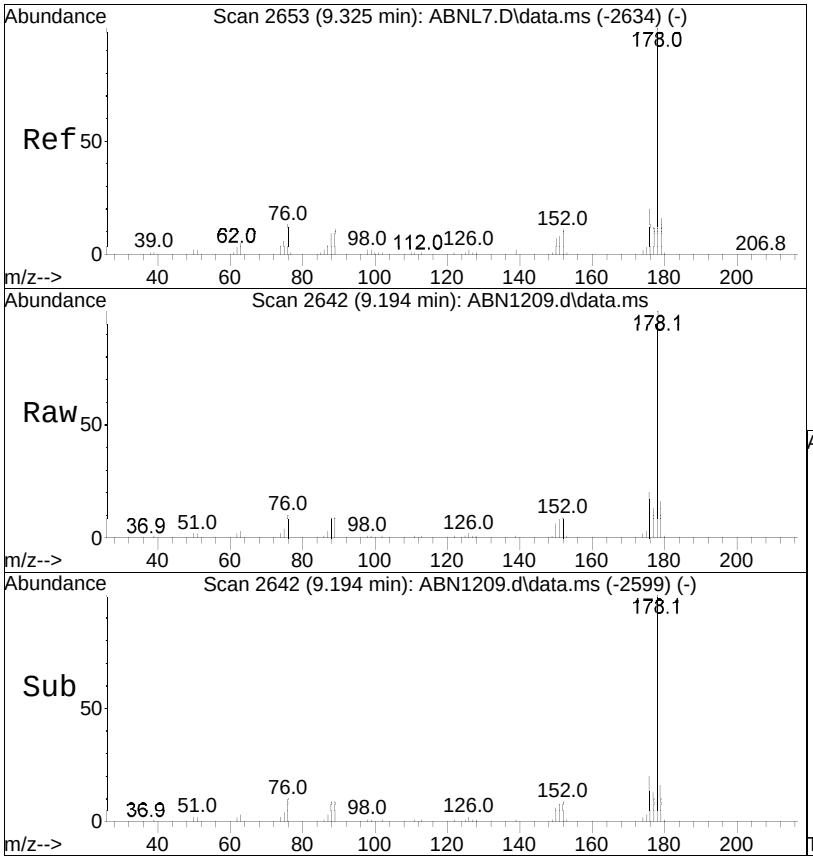


#81
Pentachlorophenol
Concen: 47.09 ug/ml
RT: 9.004 min Scan# 2575
Delta R.T. -0.006 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion:266 Resp: 38277

Ion	Ratio	Lower	Upper
266	100		
264	60.5	51.8	77.6
268	61.4	49.8	74.8

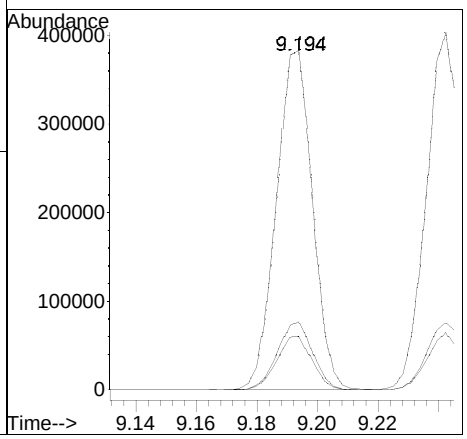


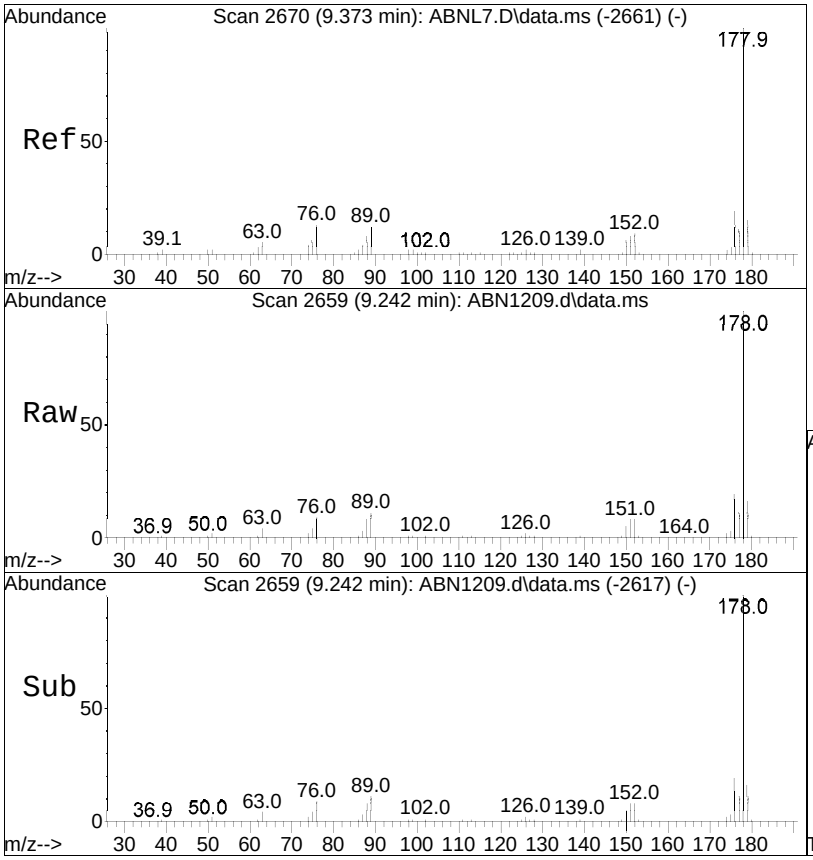


#88
Phenanthrene
Concen: 47.34 ug/ml
RT: 9.194 min Scan# 2642
Delta R.T. -0.003 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion:178 Resp: 318045

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.2	18.2
176	19.5	15.4	23.2

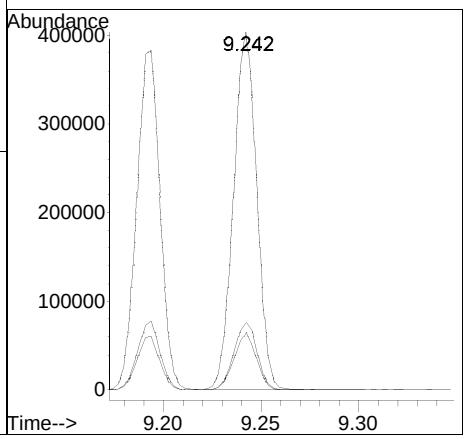


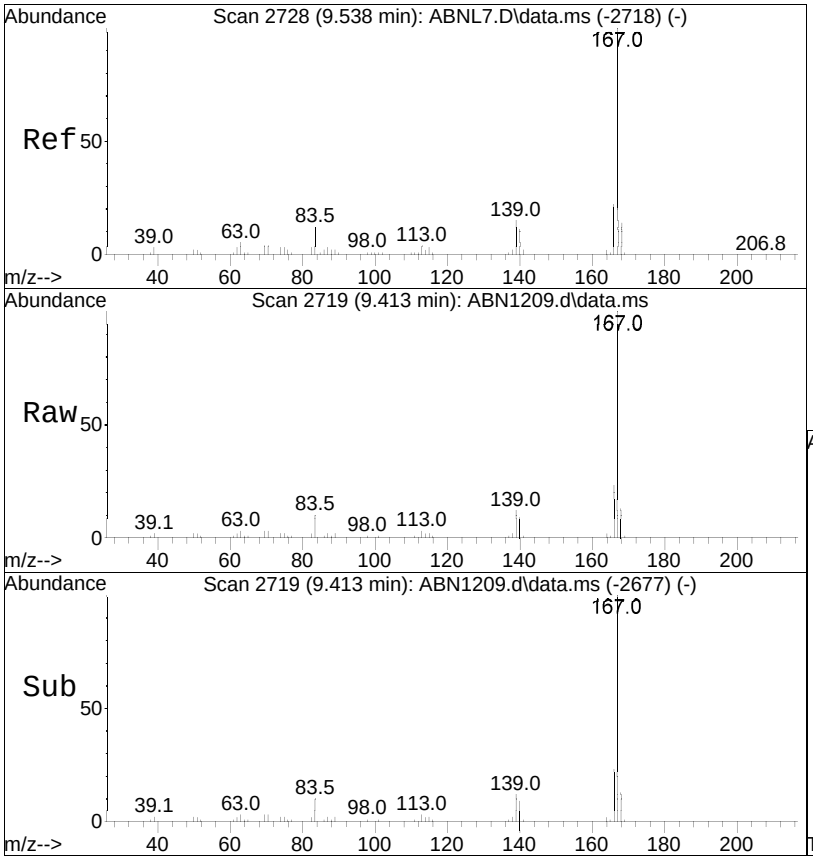


#89
Anthracene
Concen: 49.89 ug/ml
RT: 9.242 min Scan# 2659
Delta R.T. -0.006 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion:178 Resp: 333434

Ion	Ratio	Lower	Upper
178	100		
179	15.3	12.1	18.1
176	18.8	14.8	22.2

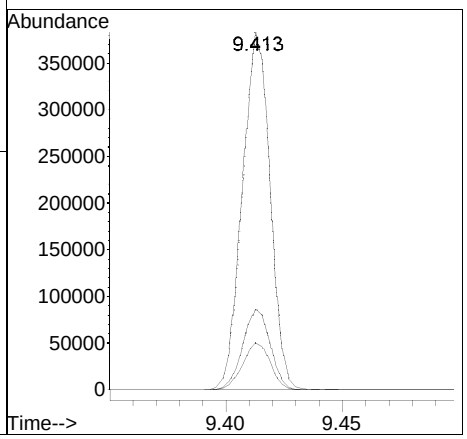


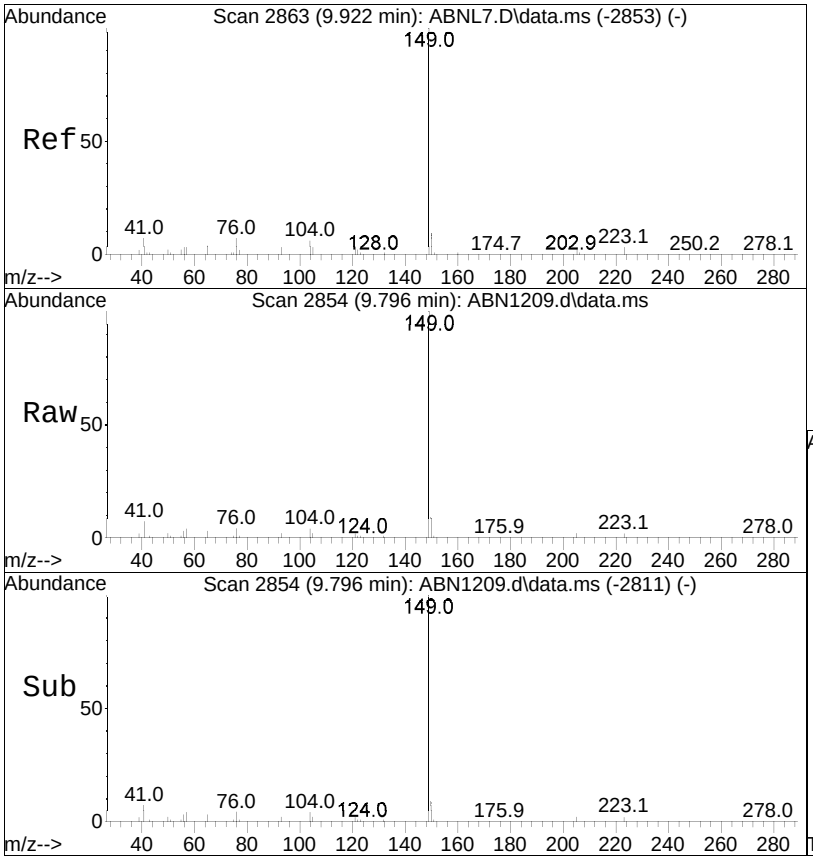


#90
Carbazole
Concen: 50.89 ug/ml
RT: 9.413 min Scan# 2719
Delta R.T. -0.006 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion:167 Resp: 315333

Ion	Ratio	Lower	Upper
167	100		
168	13.2	10.6	15.8
166	22.5	17.7	26.5

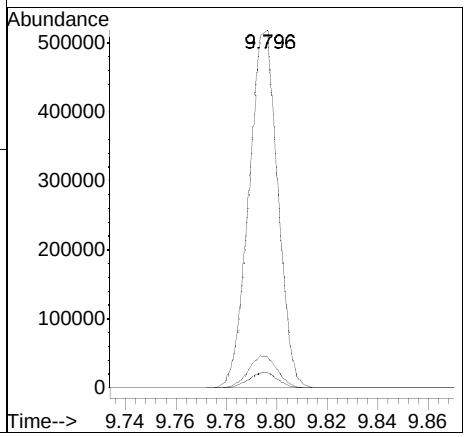


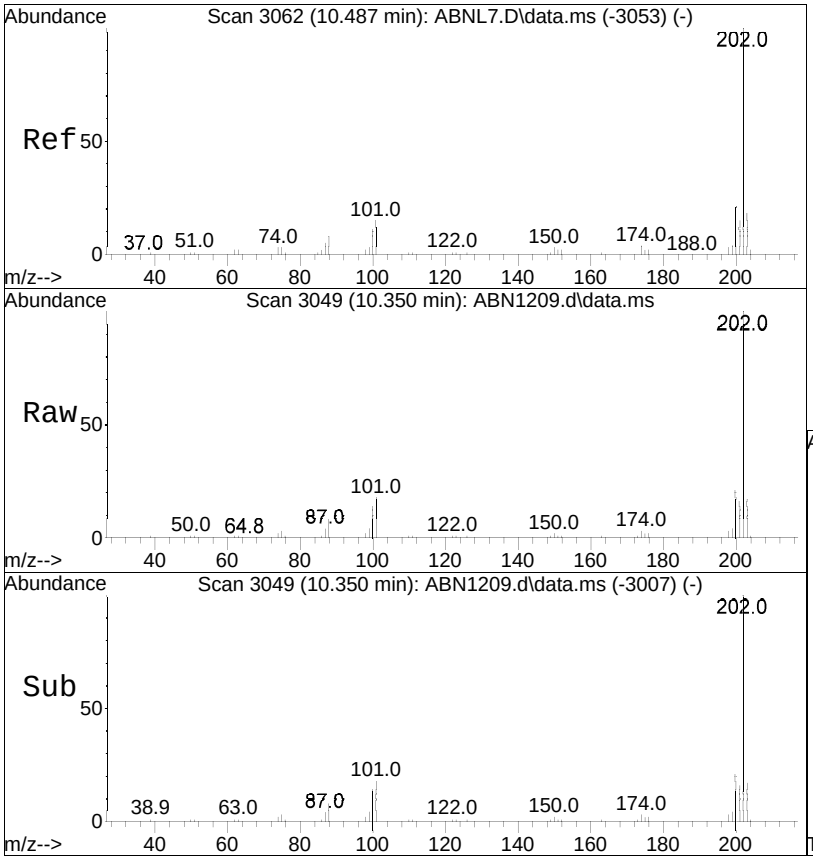


#91
Di-n-butylphthalate
Concen: 51.30 ug/ml
RT: 9.796 min Scan# 2854
Delta R.T. -0.003 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion:149 Resp: 406830

Ion	Ratio	Lower	Upper
149	100		
150	9.0	7.4	11.0
104	4.3	4.2	6.2

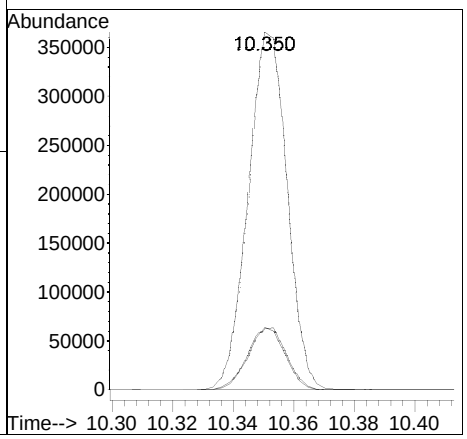


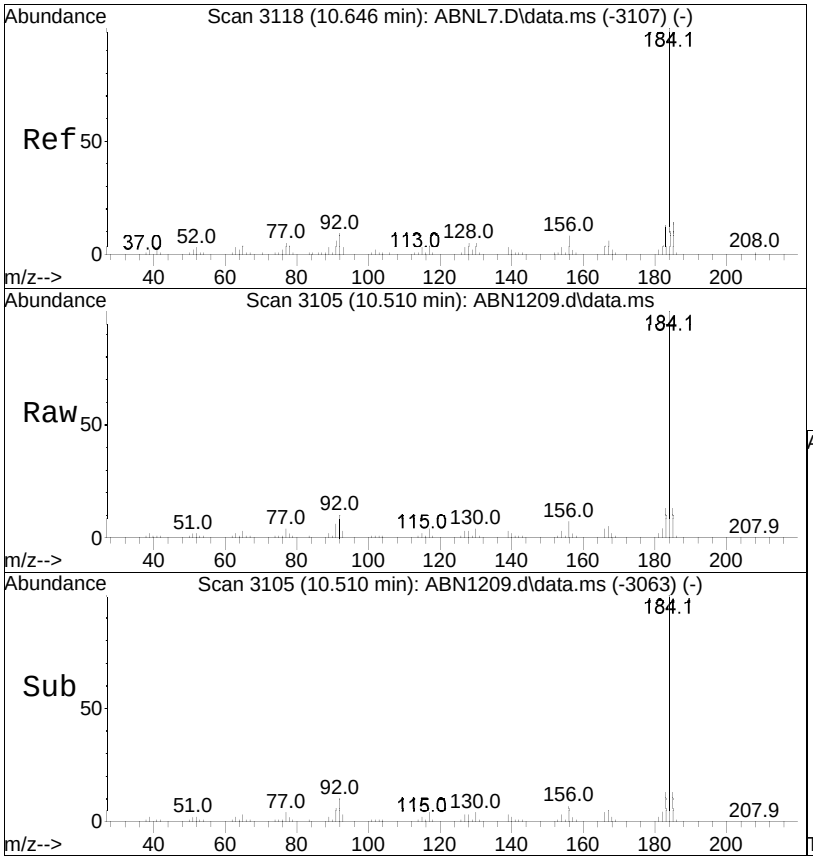


#92
Fluoranthene
Concen: 49.29 ug/ml
RT: 10.350 min Scan# 3049
Delta R.T. -0.006 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion:202 Resp: 324275

Ion	Ratio	Lower	Upper
202	100		
101	17.2	11.4	17.0#
203	17.3	13.9	20.9

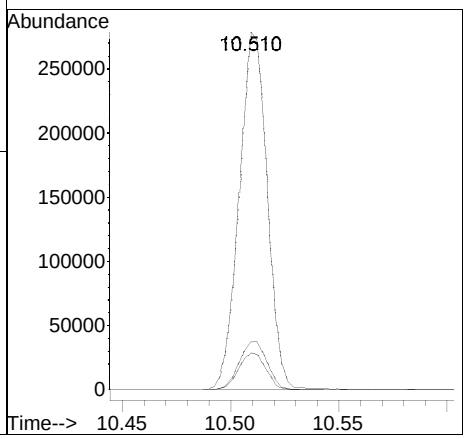


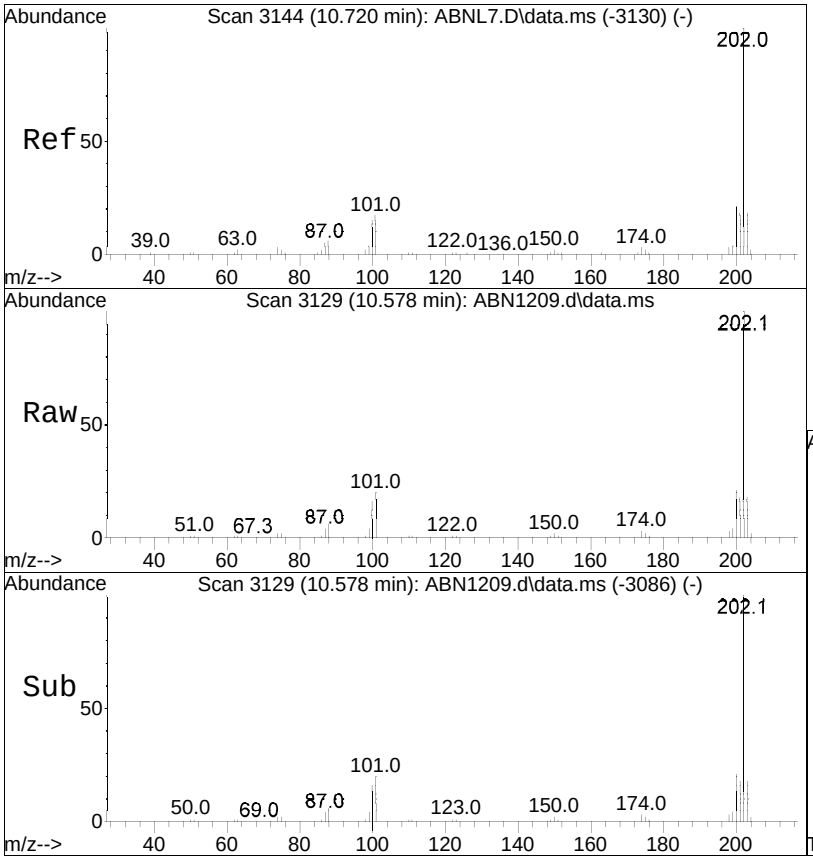


#93
Benzidine
Concen: 55.15 ug/ml
RT: 10.510 min Scan# 3105
Delta R.T. -0.006 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion:184 Resp: 248851

Ion	Ratio	Lower	Upper
184	100		
92	10.3	7.6	11.4
185	13.7	11.5	17.3

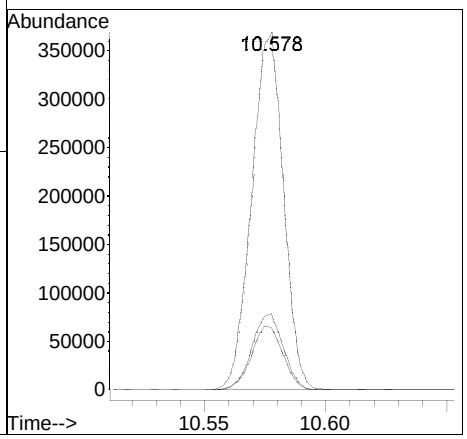


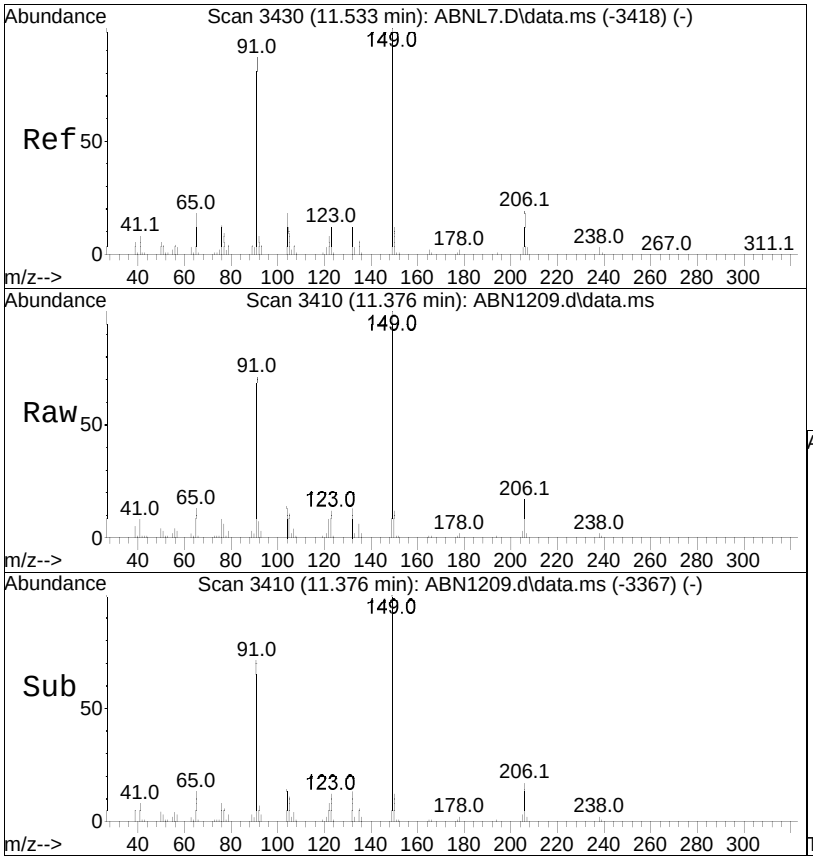


#94
Pyrene
Concen: 48.83 ug/ml
RT: 10.578 min Scan# 3129
Delta R.T. -0.003 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion:202 Resp: 333020

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.0	25.4
203	17.9	14.2	21.2

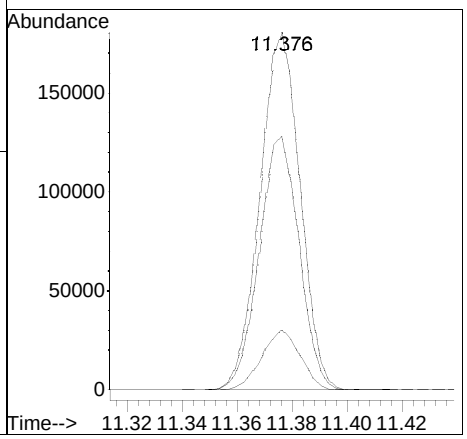


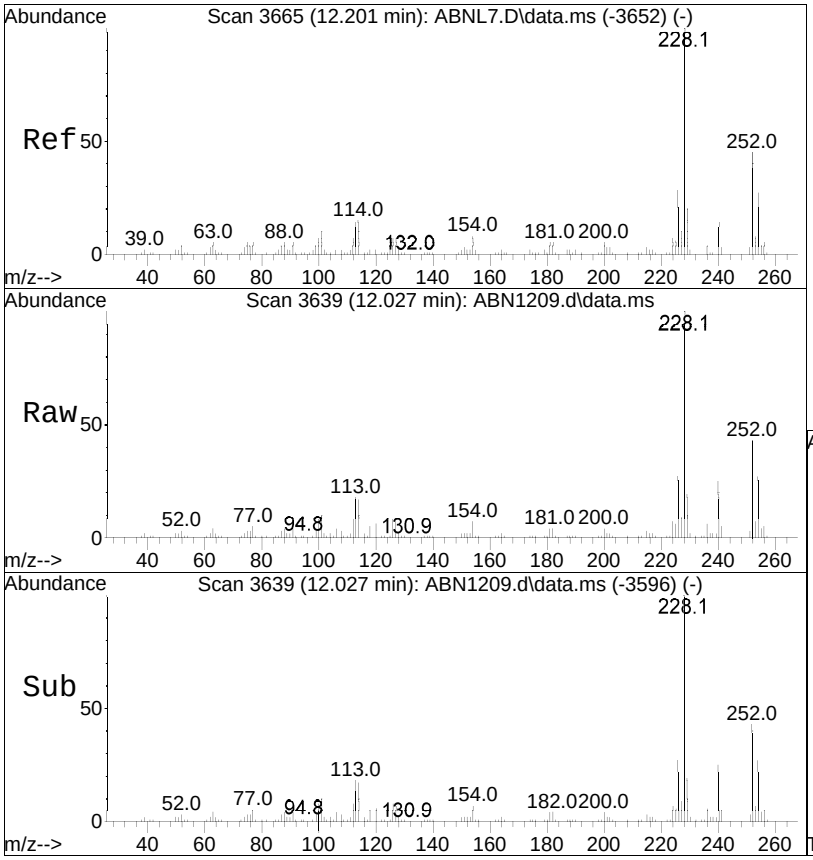


#96
Butyl benzyl phthalate
Concen: 51.63 ug/ml
RT: 11.376 min Scan# 3410
Delta R.T. -0.003 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion:149 Resp: 181423

Ion	Ratio	Lower	Upper
149	100		
91	70.7	61.2	91.8
206	16.1	12.5	18.7

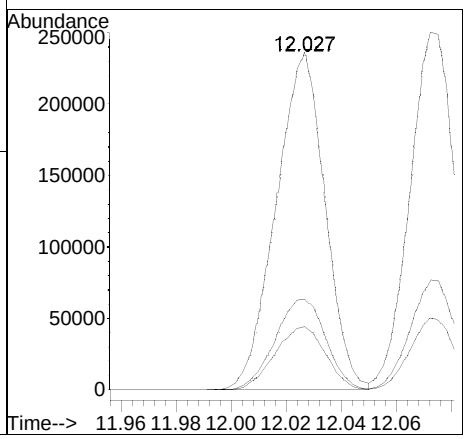


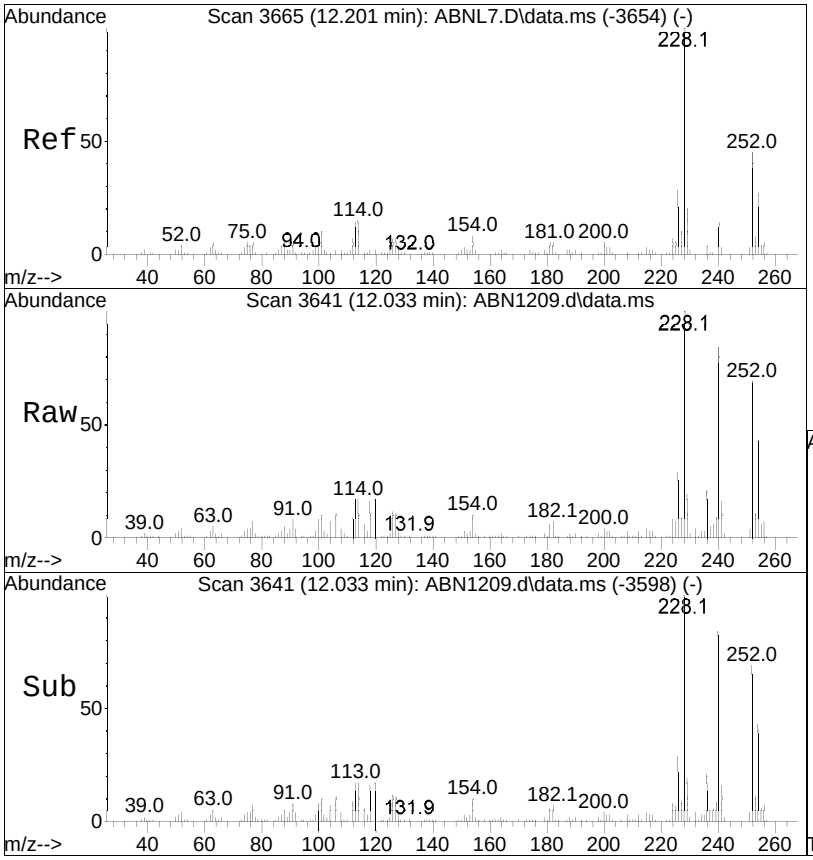


#104
Benzo(a)anthracene
Concen: 46.87 ug/ml
RT: 12.027 min Scan# 3639
Delta R.T. -0.003 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion:228 Resp: 291655

Ion	Ratio	Lower	Upper
228	100		
226	27.9	22.2	33.2
229	19.4	15.6	23.4

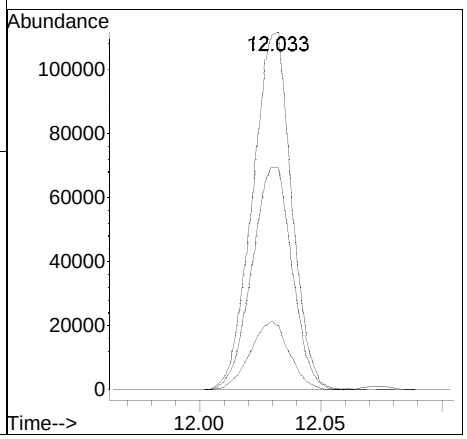


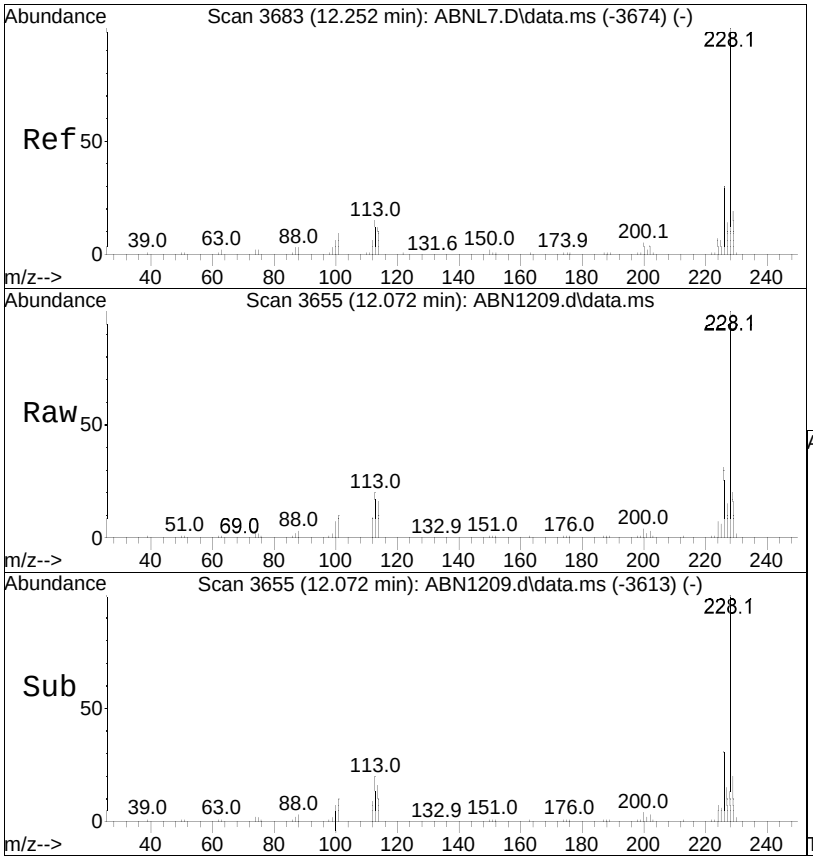


#105
3,3'-Dichlorobenzidine
Concen: 54.86 ug/ml
RT: 12.033 min Scan# 3641
Delta R.T. -0.003 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion:252 Resp: 124204

Ion	Ratio	Lower	Upper
252	100		
126	19.4	13.8	20.6
254	64.2	53.0	79.6

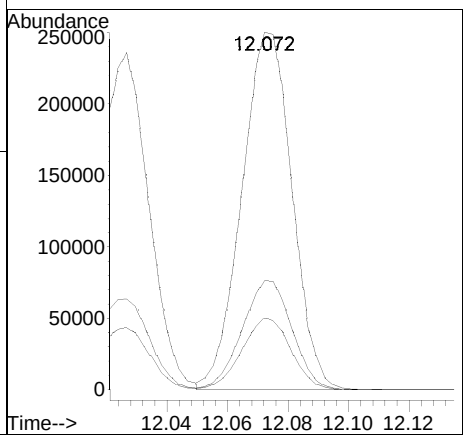


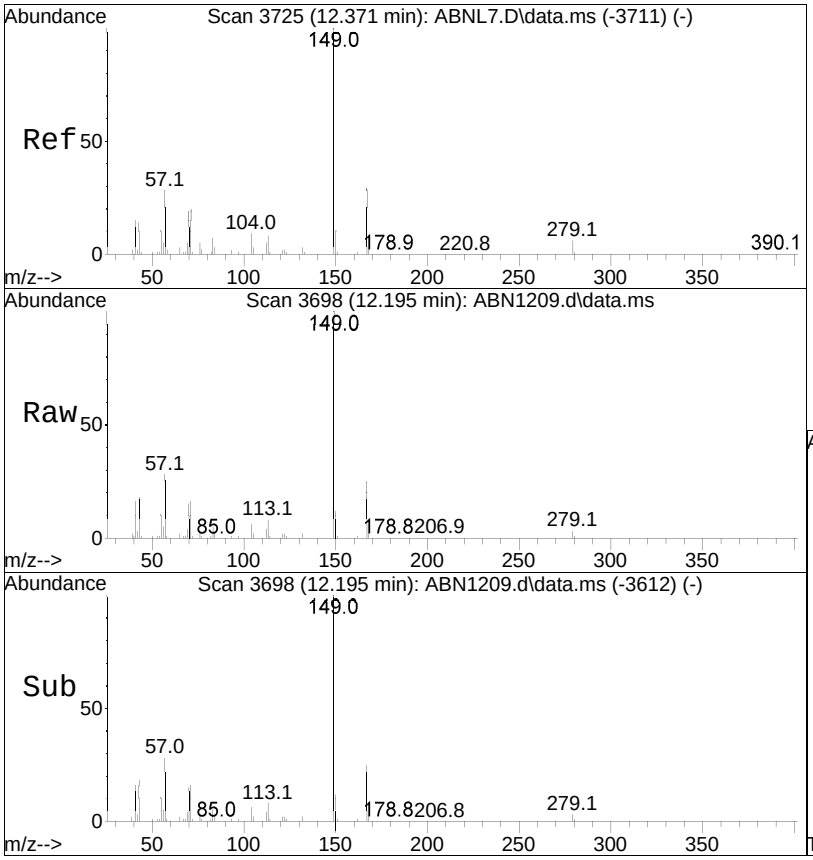


#106
Chrysene
Concen: 48.93 ug/ml
RT: 12.072 min Scan# 3655
Delta R.T. -0.006 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion:228 Resp: 287463

Ion	Ratio	Lower	Upper
228	100		
226	30.4	24.6	37.0
229	19.7	15.8	23.6

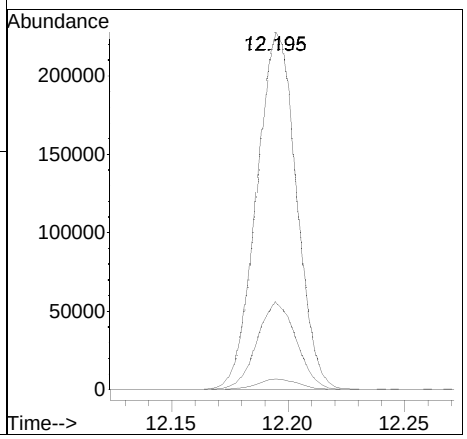


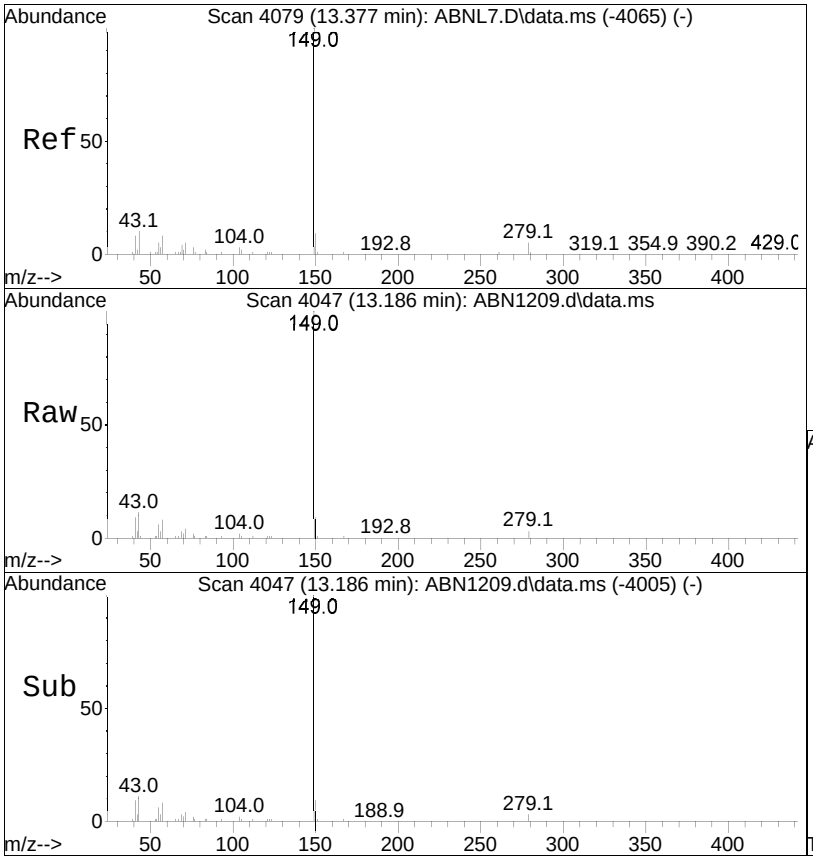


#107
Bis(2-ethylhexyl)phthalate
Concen: 54.64 ug/ml
RT: 12.195 min Scan# 3698
Delta R.T. -0.006 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion:149 Resp: 268461

Ion	Ratio	Lower	Upper
149	100		
167	24.3	19.4	29.0
279	2.8	2.3	3.5

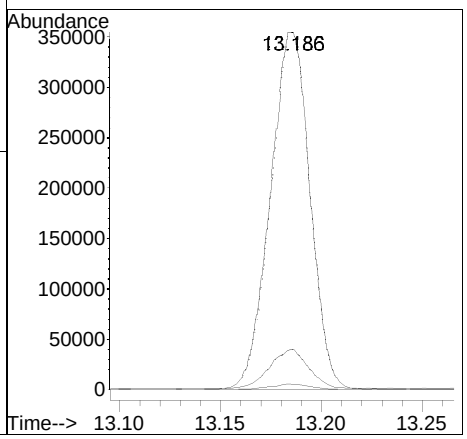


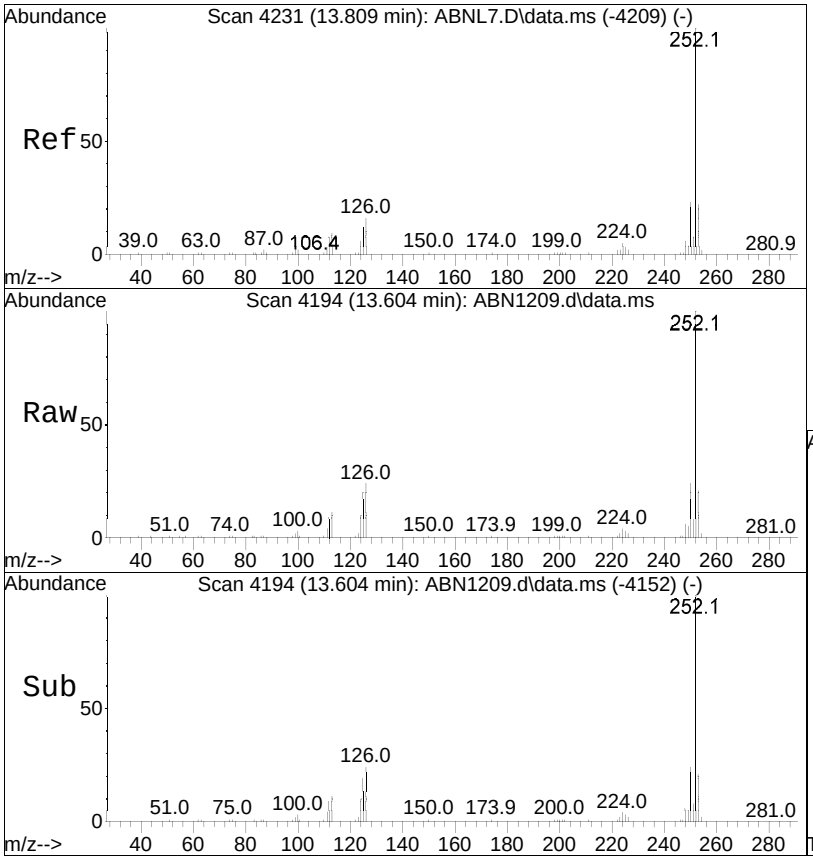


#108
Di-n-octylphthalate
Concen: 56.33 ug/ml
RT: 13.186 min Scan# 4047
Delta R.T. -0.006 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion:149 Resp: 478856

Ion	Ratio	Lower	Upper
149	100		
43	10.9	10.1	15.1
167	1.3	1.1	1.7

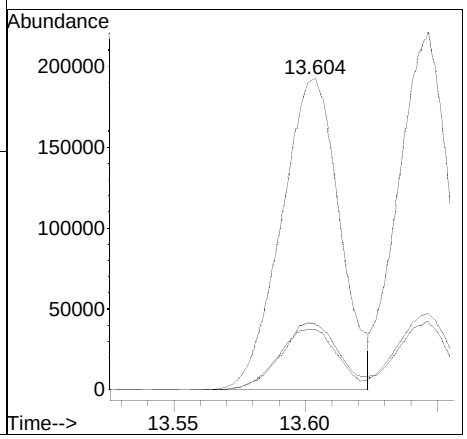


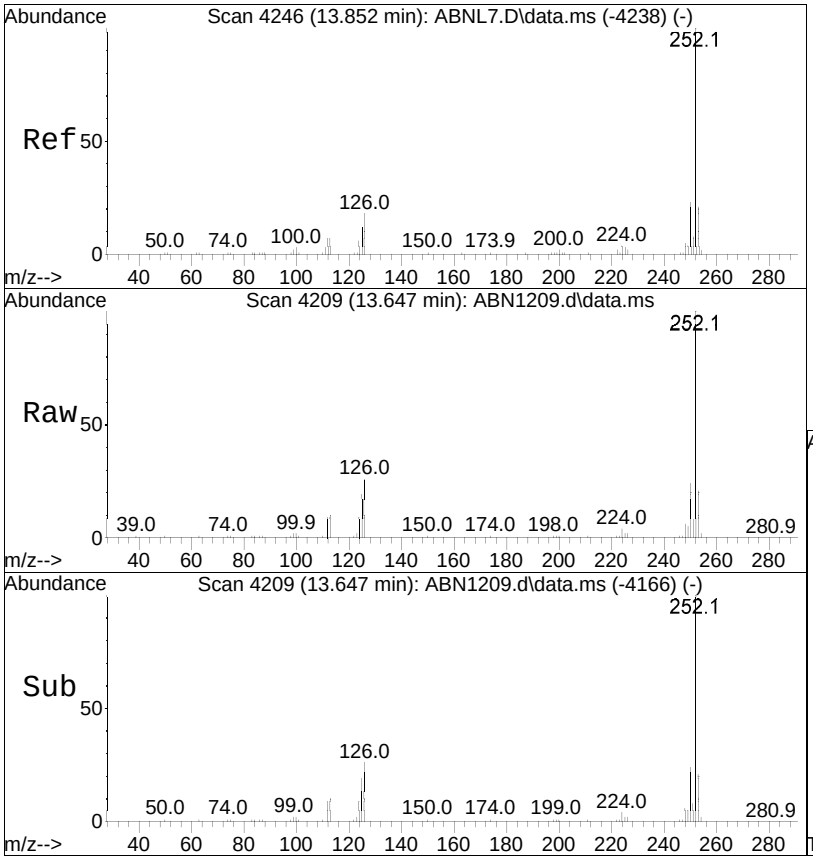


#109
Benzo(b)fluoranthene
Concen: 51.88 ug/ml
RT: 13.604 min Scan# 4194
Delta R.T. -0.006 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion:252 Resp: 295505

Ion	Ratio	Lower	Upper
252	100		
125	19.6	11.6	17.4#
253	21.9	17.4	26.0

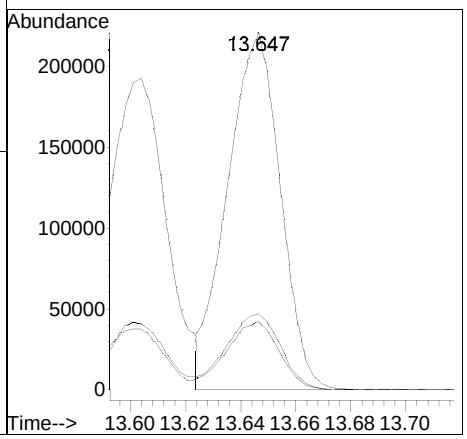


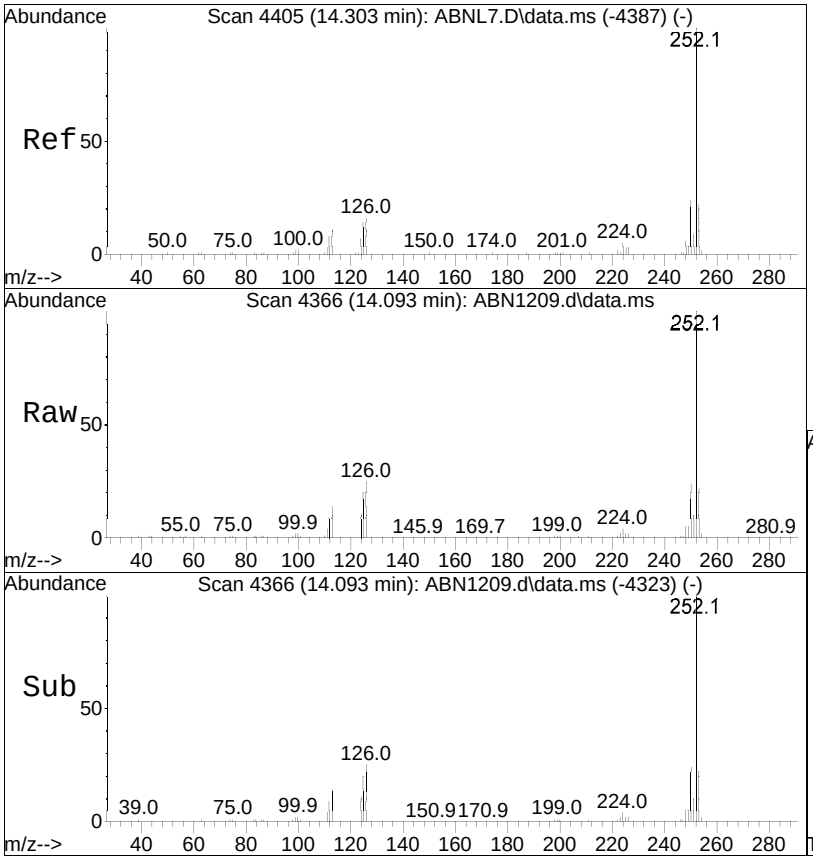


#110
Benzo(k)fluoranthene
Concen: 51.21 ug/ml
RT: 13.647 min Scan# 4209
Delta R.T. -0.003 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion:252 Resp: 292919

Ion	Ratio	Lower	Upper
252	100		
125	19.4	11.4	17.0#
253	21.8	17.2	25.8

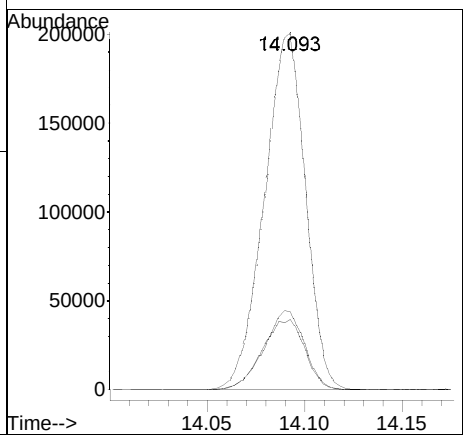


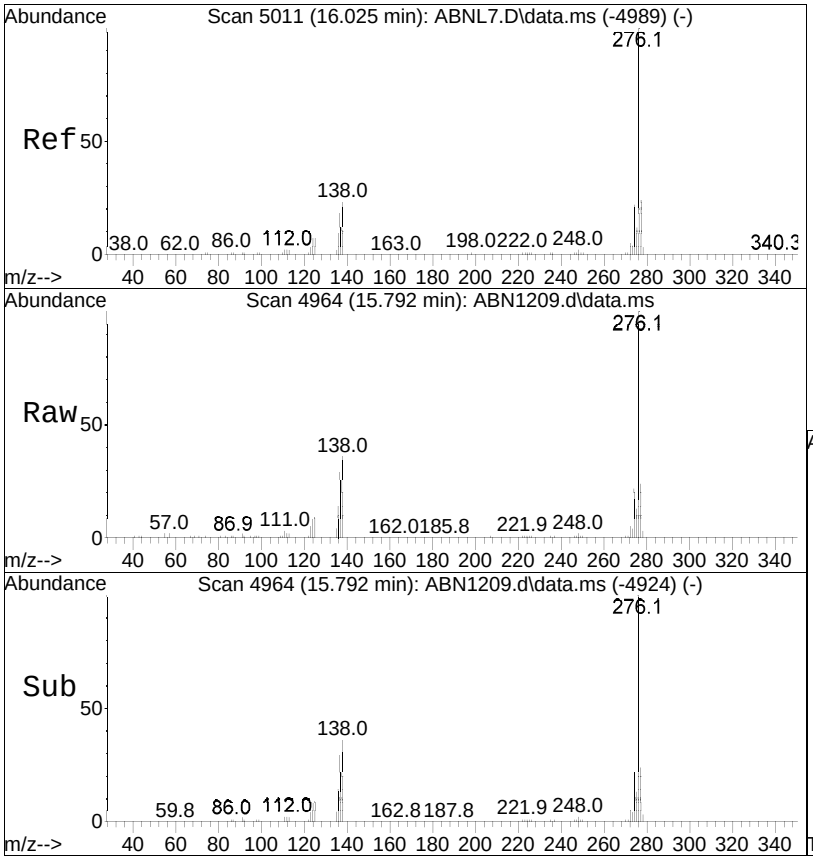


#111
Benzo(a)pyrene
Concen: 52.72 ug/ml
RT: 14.093 min Scan# 4366
Delta R.T. -0.003 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion:252 Resp: 291111

Ion	Ratio	Lower	Upper
252	100		
125	20.5	12.6	18.8#
253	22.0	16.9	25.3

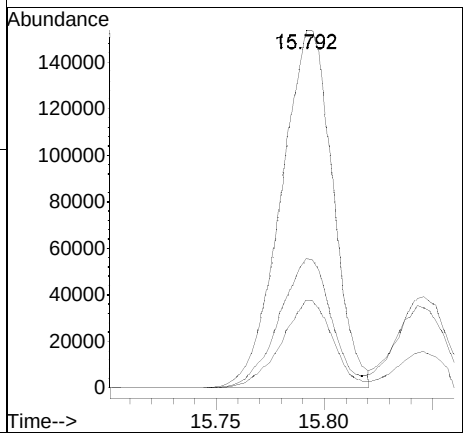


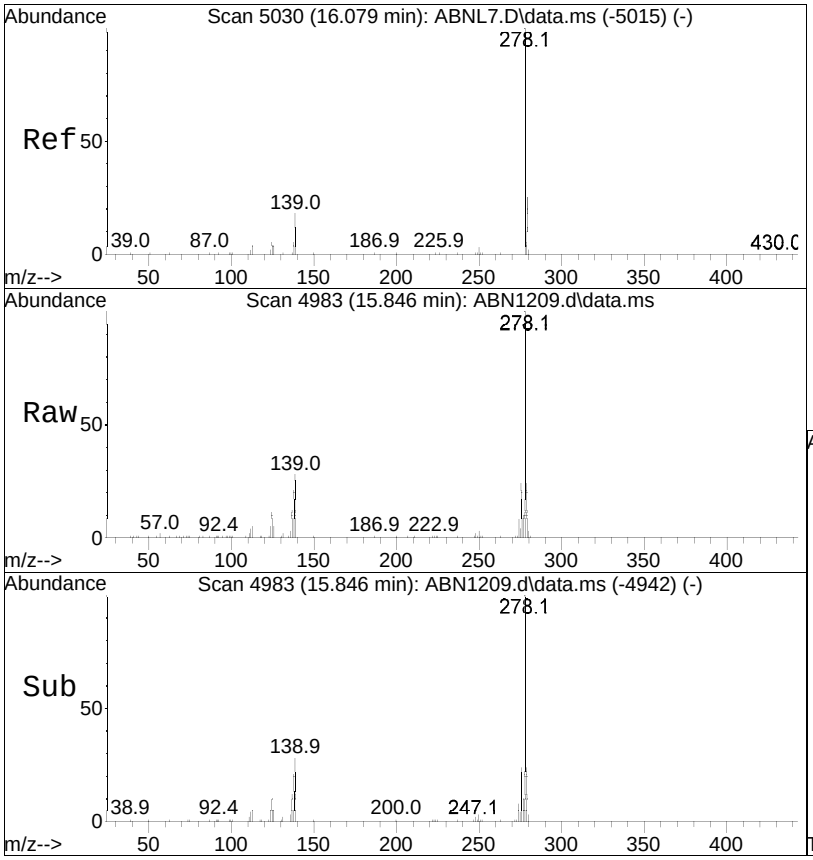


#113
Indeno(1,2,3-cd)pyrene
Concen: 47.02 ug/mL
RT: 15.792 min Scan# 4964
Delta R.T. -0.011 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion:276 Resp: 254207

Ion	Ratio	Lower	Upper
276	100		
138	36.3	21.4	32.0#
277	24.4	19.2	28.8

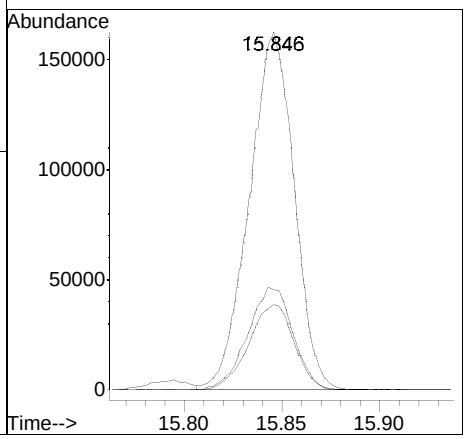


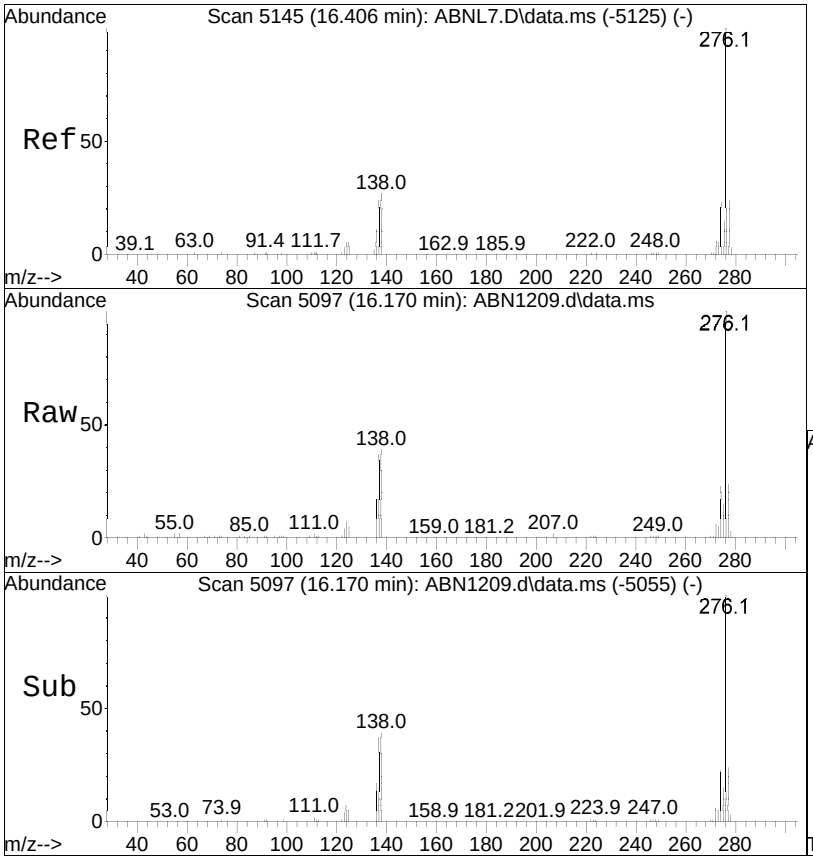


#114
Dibenzo(a,h)anthracene
Concen: 46.59 ug/ml M4
RT: 15.846 min Scan# 4983
Delta R.T. -0.009 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion:278 Resp: 257324

Ion	Ratio	Lower	Upper
278	100		
139	29.3	17.1	25.7#
279	24.4	19.3	28.9

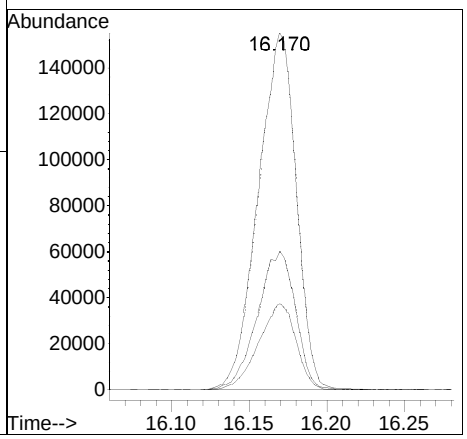




#115
Benzo(ghi)perylene
Concen: 45.66 ug/ml
RT: 16.170 min Scan# 5097
Delta R.T. -0.006 min
Lab File: ABN1209.d
Acq: 9 Dec 2018 4:59 pm

Tgt Ion:276 Resp: 261676

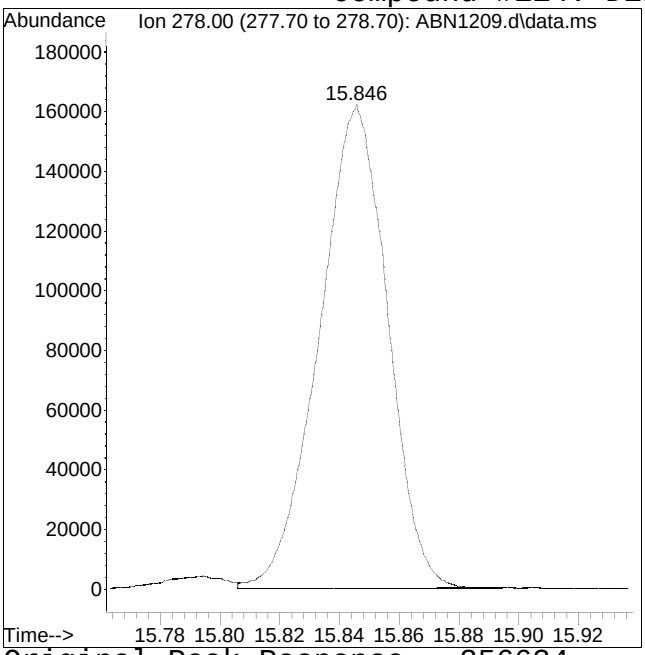
Ion	Ratio	Lower	Upper
276	100		
138	39.3	23.0	34.4#
277	23.9	18.6	28.0



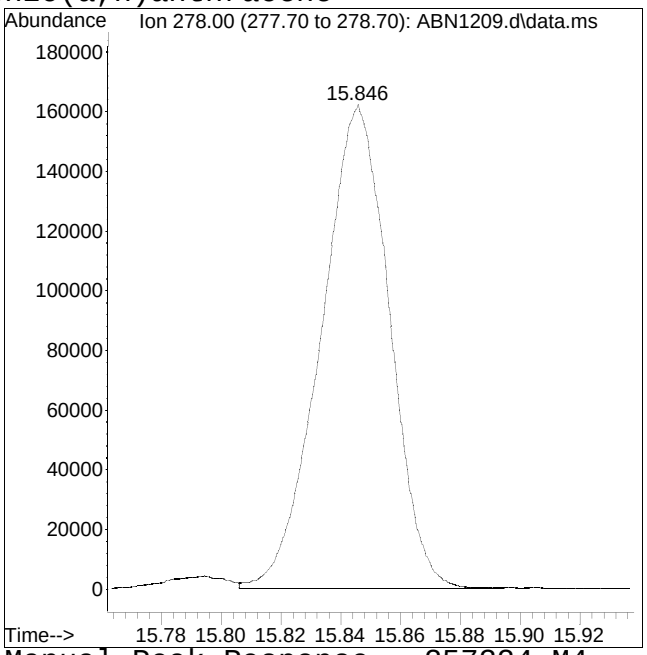
Manual Integration Report

Data Path : I:\8270\SV103\181209\ QMethod : FS181204nSV103.m
Data File : ABN1209.d Operator : SV103:rc
Date Inj'd : 12/9/2018 4:59 pm Instrument : SV103
Sample : wg1187317-3,32,,ABN CCV LoQuant Date : 12/9/2018 5:42 pm

Compound #114: Dibenzo(a,h)anthracene



Original Peak Response = 256634



Manual Peak Response = 257324 M4

M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV103\181209\
Data File : AP91209.d
Acq On : 9 Dec 2018 5:25 pm
Operator : SV103:rc
Sample : wg1187317-4,32,,AP9 CCV Lot# 7908
Misc : wg1187317,,ICAL15305
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Dec 09 18:12:31 2018
Quant Method : I:\8270\SV103\181209\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Dec 09 17:44:13 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
27	I	IS2_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	93	0.00
28	T	Benzaldehyde	1.166	1.181	-1.3	94	0.00
29	T	Acetophenone	1.889	1.957	-3.6	93	0.00
30	T	m-Toluidine	2.006	2.055	-2.4	91	0.00
31	T	2-Chloroaniline	1.798	1.865	-3.7	93	0.00
54	I	IS2_Naphthalene-d8	1.000	1.000	0.0	90	0.00
55	T	a-Terpineol	0.305	0.273	10.5	79	0.00
56	T	3-Chloroaniline	0.141	0.120	14.9	78	0.00
57	T	2,6-Dichlorophenol	0.232	0.262	-12.9	98	0.00
58	T	1-chloro-2-nitrobenzene	0.126	0.134	-6.3	92	0.00
59	T	Caprolactam	0.170	0.161	5.3	84	0.00
60	T	1,2,4,5-Tetrachlorobenzene	0.217	0.240	-10.6	97	0.00
61	T	Biphenyl	0.702	0.771	-9.8	98	0.00
82	I	IS2_Acenaphthene-d10	1.000	1.000	0.0	103	0.00
83	T	Dichloran	0.136	0.162	-19.1	118	0.00
84	T	Pentachloronitrobenzene	0.123	0.119	3.3	98	0.00
97	I	IS2_Phenanthrene-d10	1.000	1.000	0.0	98	0.00
98	T	Diphenamid	0.476	0.529	-11.1	106	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181209\
Data File : AP91209.d
Acq On : 9 Dec 2018 5:25 pm
Operator : SV103:rc
Sample : wg1187317-4,32,,AP9 CCV Lot# 7908
Misc : wg1187317,,ICAL15305
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Dec 09 18:12:31 2018
Quant Method : I:\8270\SV103\181209\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Dec 09 17:44:13 2018
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
27) IS2_1,4-Dichlorobenzen...	4.775	152	68471	40.000	ug/ml	0.00
54) IS2_Naphthalene-d8	6.017	136	296762	40.000	ug/ml	0.00
82) IS2_Acenaphthene-d10	7.730	164	152009	40.000	ug/ml	0.00
97) IS2_Phenanthrene-d10	9.168	188	270363	40.000	ug/ml	0.00
System Monitoring Compounds						
Target Compounds						Qvalue
28) Benzaldehyde	4.341	105	101106	50.653	ug/ml	85
29) Acetophenone	5.179	105	167469	51.802	ug/ml	93
30) m-Toluidine	5.264	106	175897	51.220	ug/ml	99
31) 2-Chloroaniline	5.625	127	159660	51.872	ug/ml#	93
55) a-Terpineol	6.074	59	101167	44.706	ug/ml	91
56) 3-Chloroaniline	6.094	65	44368	42.348	ug/ml#	55
57) 2,6-Dichlorophenol	6.122	162	97213	56.505	ug/ml#	89
58) 1-chloro-2-nitrobenzene	6.375	111	49798	53.303	ug/ml	88
59) Caprolactam	6.426	55	59880	47.515	ug/ml#	87
60) 1,2,4,5-Tetrachloroben...	6.889	216	89097	55.234	ug/ml	98
61) Biphenyl	7.182	154	285932	54.868	ug/ml	99
83) Dichloran	8.864	206	30696	59.435	ug/ml#	79
84) Pentachloronitrobenzene	9.012	237	22593	48.456	ug/ml	96
98) Diphenamid	10.075	167	178933	55.591	ug/ml	89

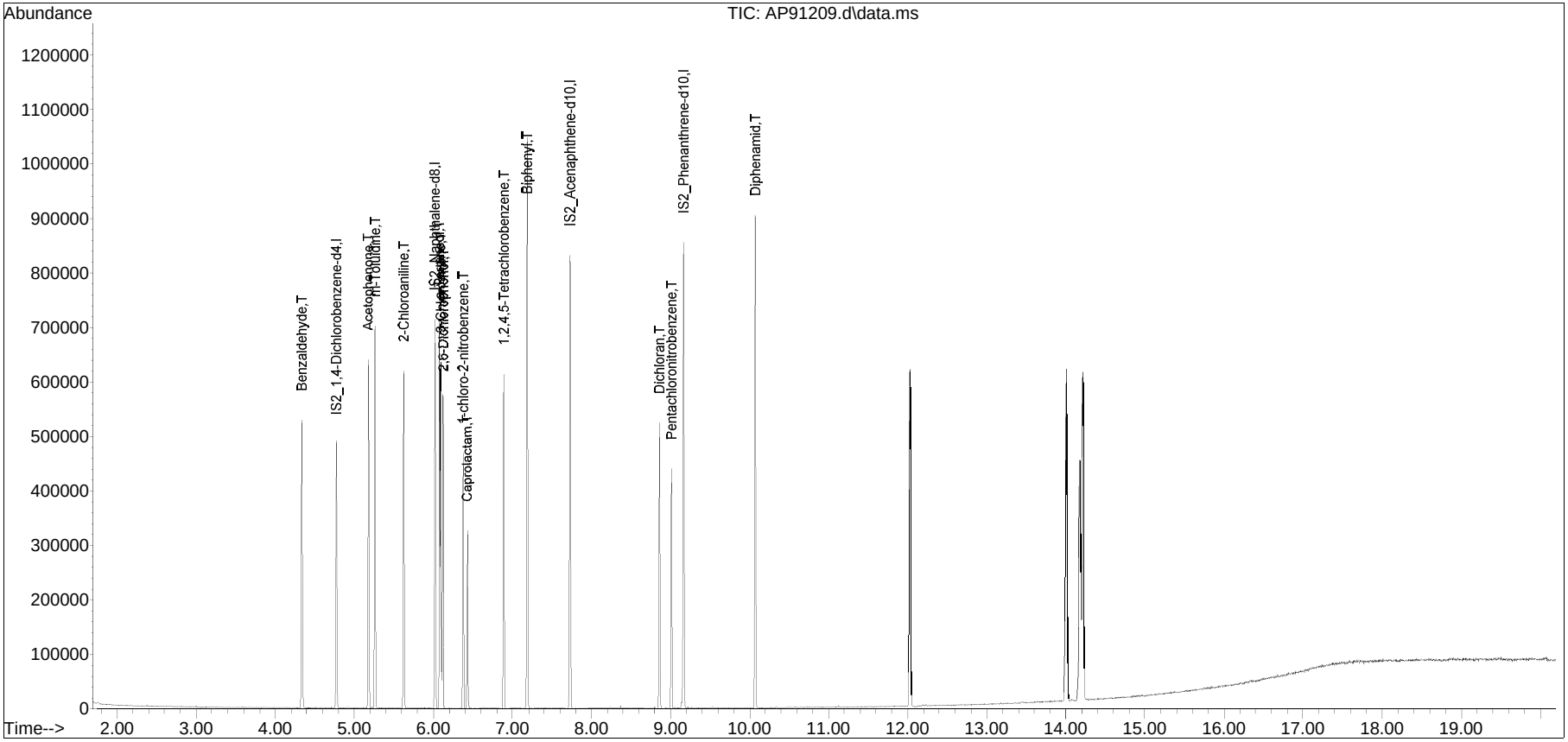
(#) = qualifier out of range (m) = manual integration (+) = signals summed

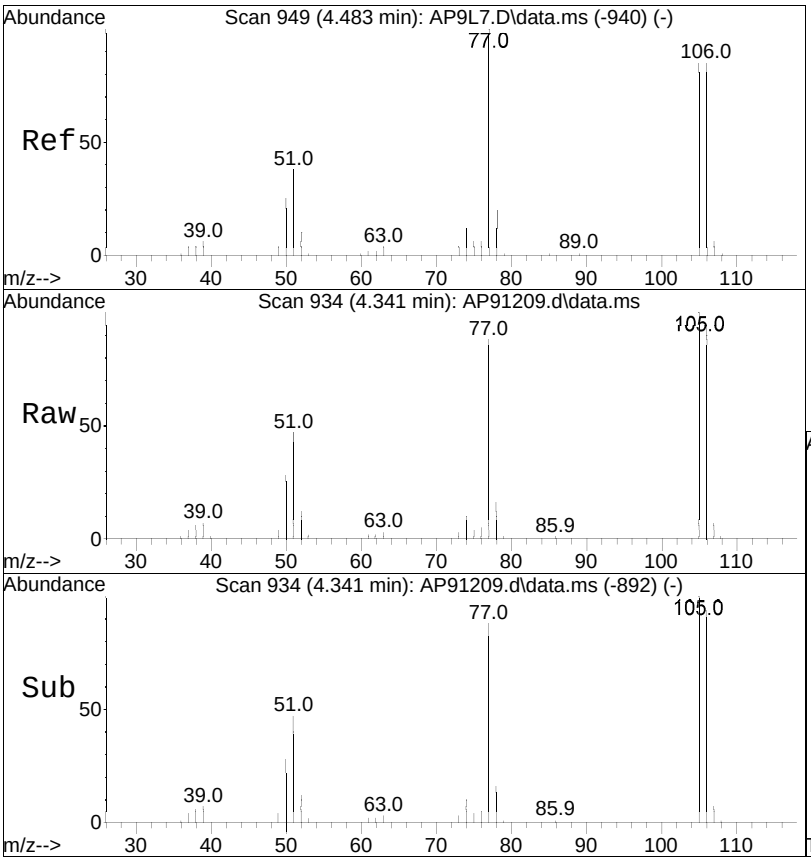
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181209\
Data File : AP91209.d
Acq On : 9 Dec 2018 5:25 pm
Operator : SV103:rc
Sample : wg1187317-4,32,,AP9 CCV Lot# 7908
Misc : wg1187317,,ICAL15305
ALS Vial : 143 Sample Multiplier: 1

Quant Time: Dec 09 18:12:31 2018
Quant Method : I:\8270\SV103\181209\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Dec 09 17:44:13 2018
Response via : Initial Calibration

Sub List : AP9ical - AP9 ical sublist

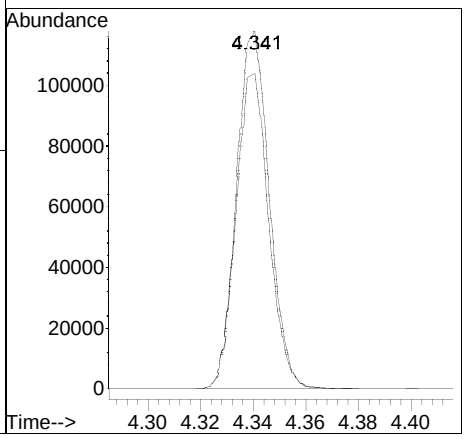


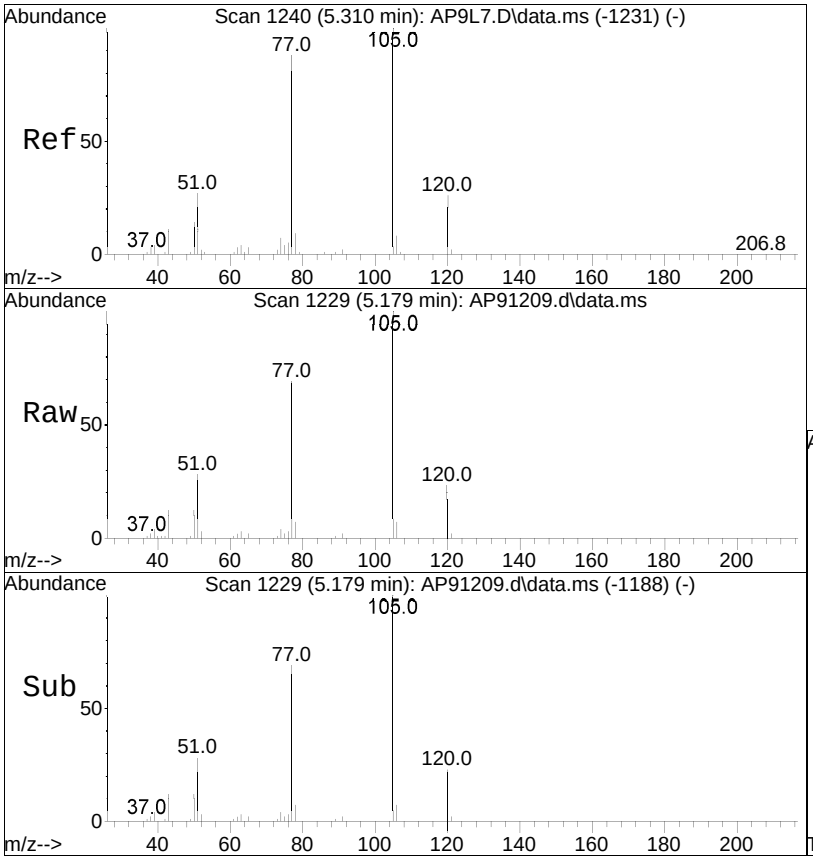


#28
Benzaldehyde
Concen: 50.65 ug/ml
RT: 4.341 min Scan# 934
Delta R.T. -0.006 min
Lab File: AP91209.d
Acq: 9 Dec 2018 5:25 pm

Tgt Ion:105 Resp: 101106

Ion	Ratio	Lower	Upper
105	100		
77	88.2	82.9	124.3

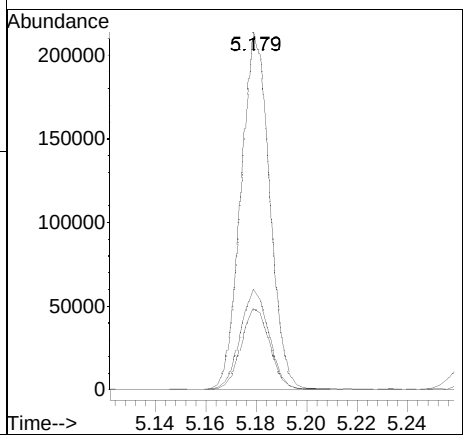


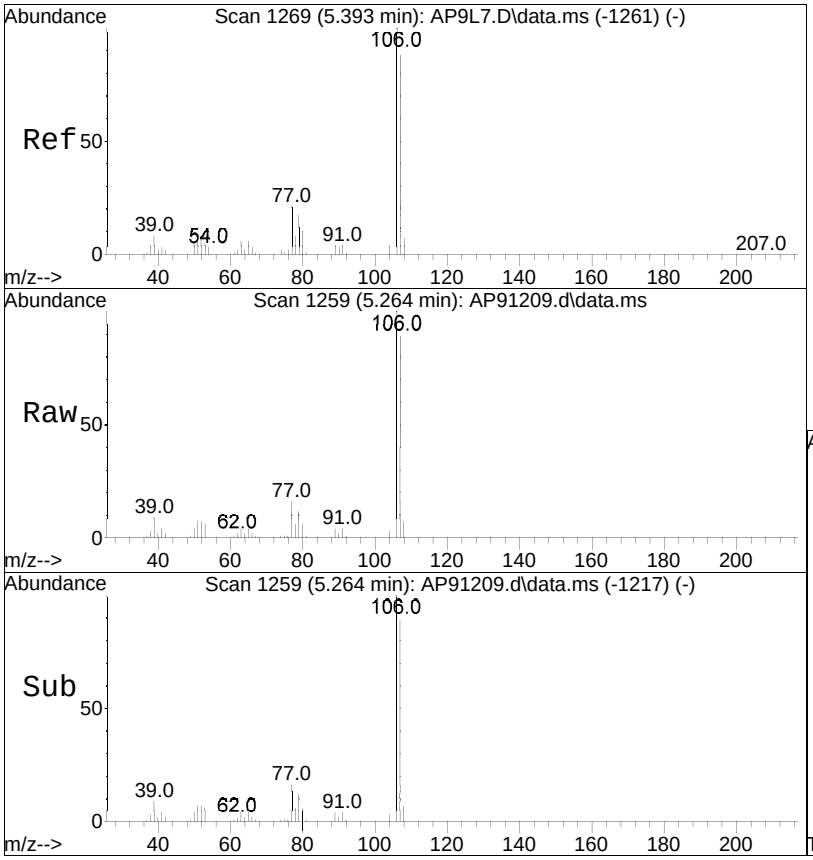


#29
Acetophenone
Concen: 51.80 ug/ml
RT: 5.179 min Scan# 1229
Delta R.T. -0.009 min
Lab File: AP91209.d
Acq: 9 Dec 2018 5:25 pm

Tgt Ion:105 Resp: 167469

Ion	Ratio	Lower	Upper
105	100		
120	22.7	16.4	24.6
51	28.0	26.5	39.7

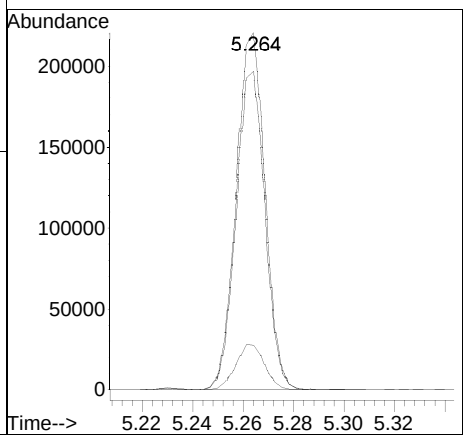


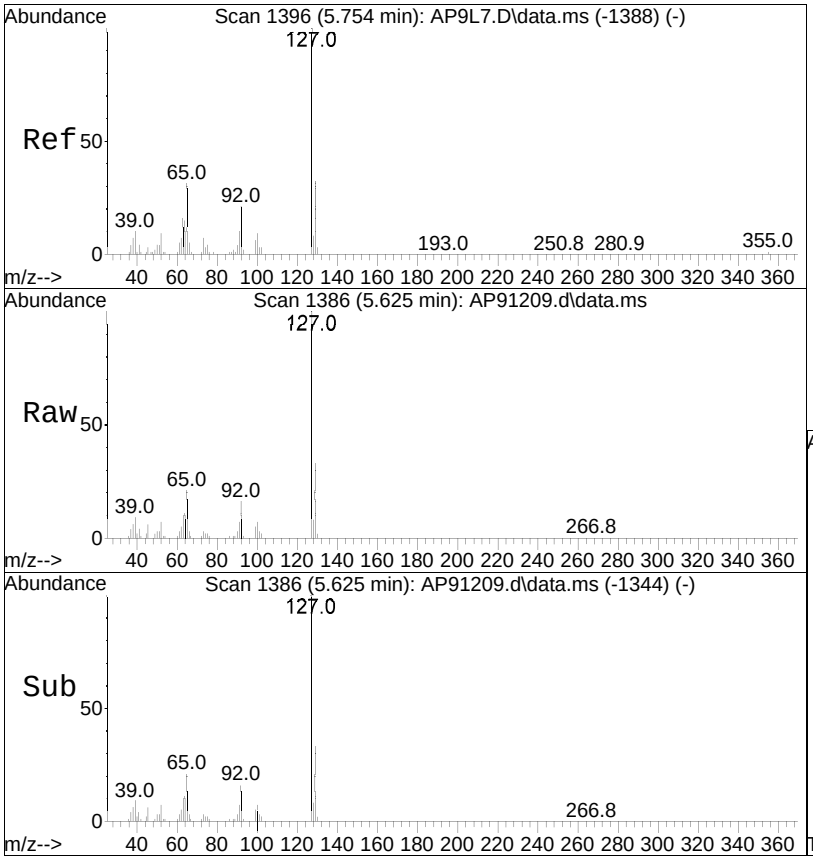


#30
m-Toluidine
Concen: 51.22 ug/ml
RT: 5.264 min Scan# 1259
Delta R.T. -0.006 min
Lab File: AP91209.d
Acq: 9 Dec 2018 5:25 pm

Tgt Ion:106 Resp: 175897

Ion	Ratio	Lower	Upper
106	100		
107	89.2	71.6	107.4
79	12.8	12.7	19.1

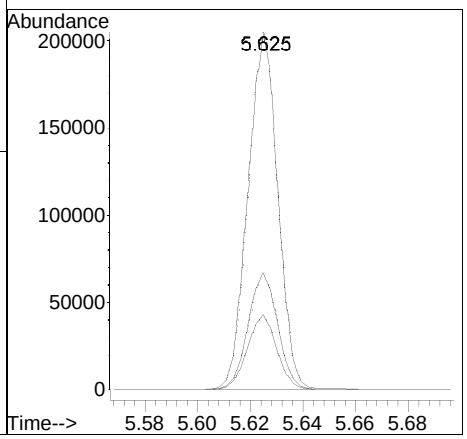


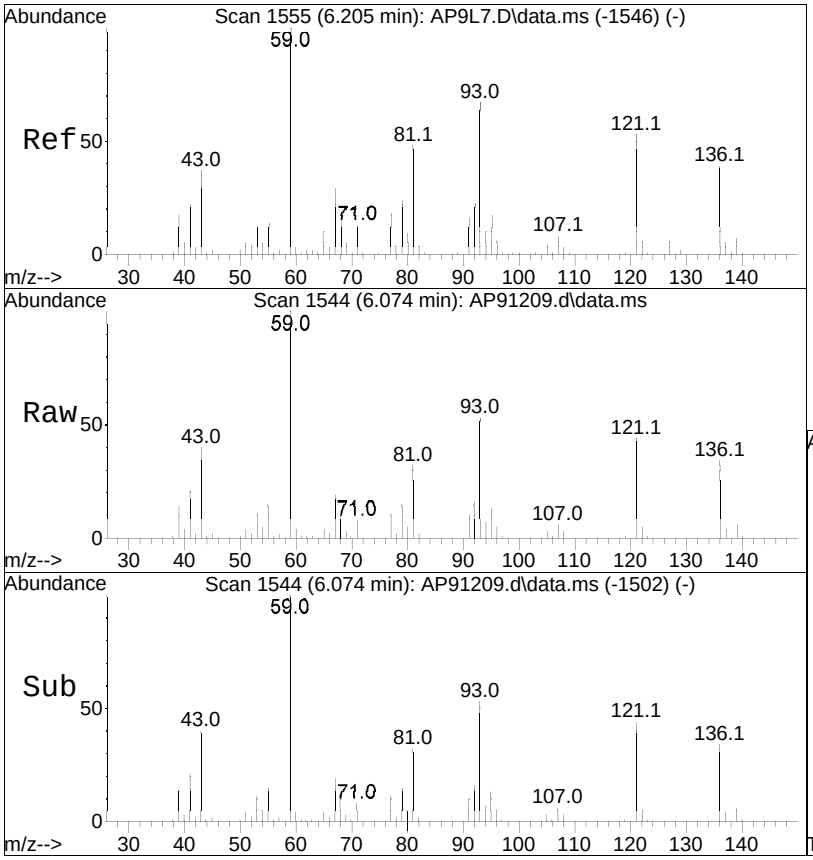


#31
2-Chloroaniline
Concen: 51.87 ug/ml
RT: 5.625 min Scan# 1386
Delta R.T. -0.006 min
Lab File: AP91209.d
Acq: 9 Dec 2018 5:25 pm

Tgt Ion:127 Resp: 159660

Ion	Ratio	Lower	Upper
127	100		
129	32.5	26.0	39.0
65	20.7	22.9	34.3#

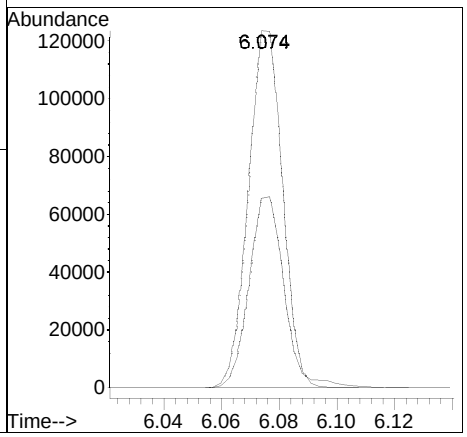


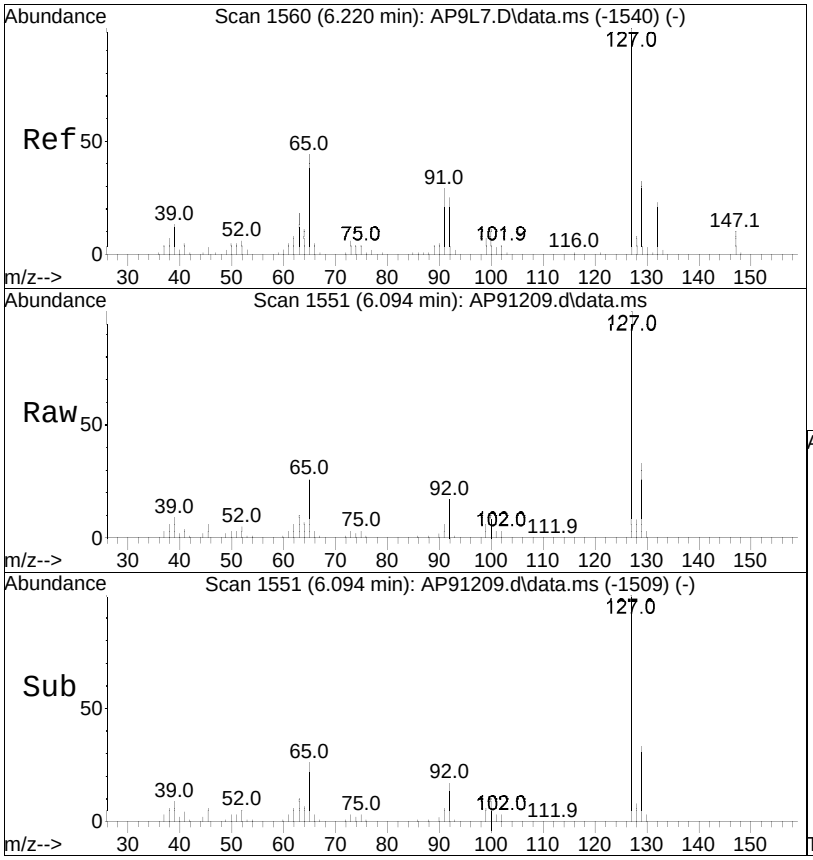


#55
a-Terpineol
Concen: 44.71 ug/ml
RT: 6.074 min Scan# 1544
Delta R.T. -0.006 min
Lab File: AP91209.d
Acq: 9 Dec 2018 5:25 pm

Tgt Ion: 59 Resp: 101167

Ion	Ratio	Lower	Upper
59	100		
93	55.4	39.4	59.0

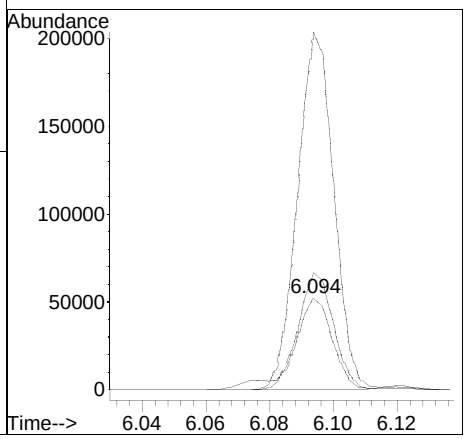


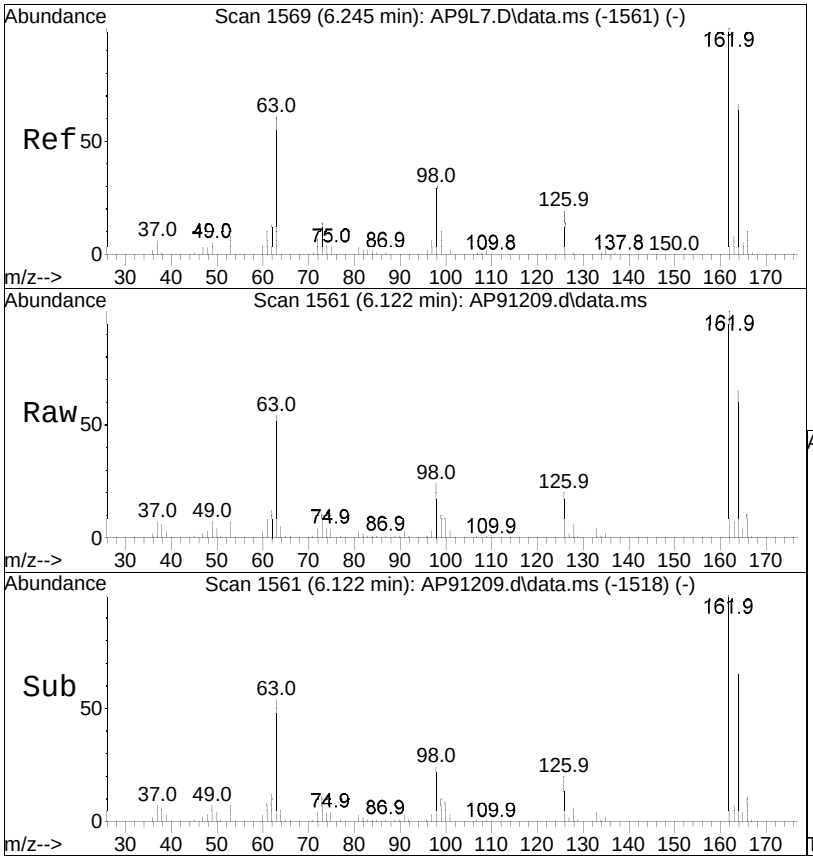


#56
3-Chloroaniline
Concen: 42.35 ug/ml
RT: 6.094 min Scan# 1551
Delta R.T. -0.006 min
Lab File: AP91209.d
Acq: 9 Dec 2018 5:25 pm

Tgt Ion: 65 Resp: 44368

Ion	Ratio	Lower	Upper
65	100		
127	359.7	216.4	324.6#
129	116.0	68.8	103.2#

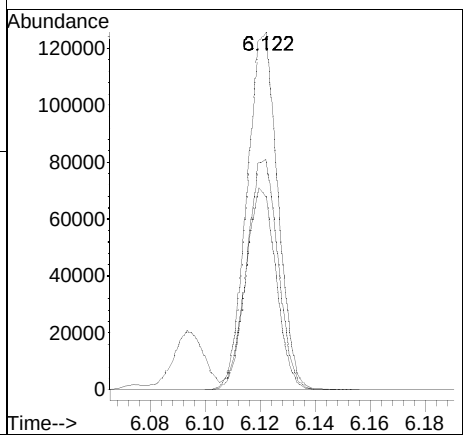


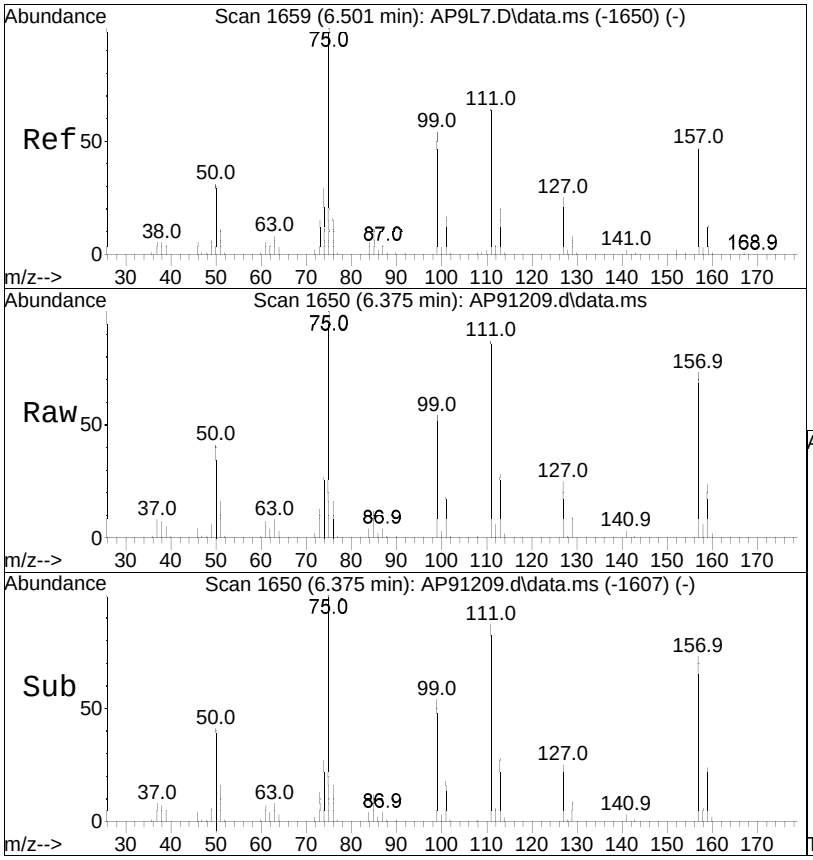


#57
2,6-Dichlorophenol
Concen: 56.50 ug/ml
RT: 6.122 min Scan# 1561
Delta R.T. -0.003 min
Lab File: AP91209.d
Acq: 9 Dec 2018 5:25 pm

Tgt Ion:162 Resp: 97213

Ion	Ratio	Lower	Upper
162	100		
164	64.7	50.2	75.4
63	56.2	56.6	85.0#

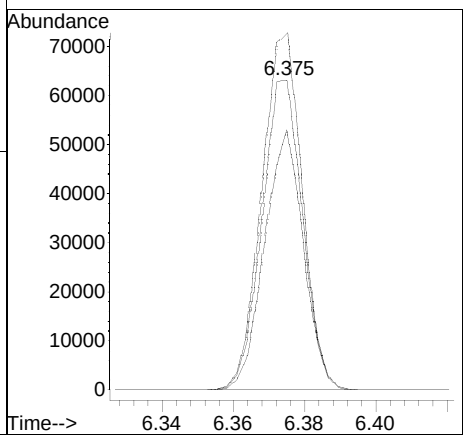


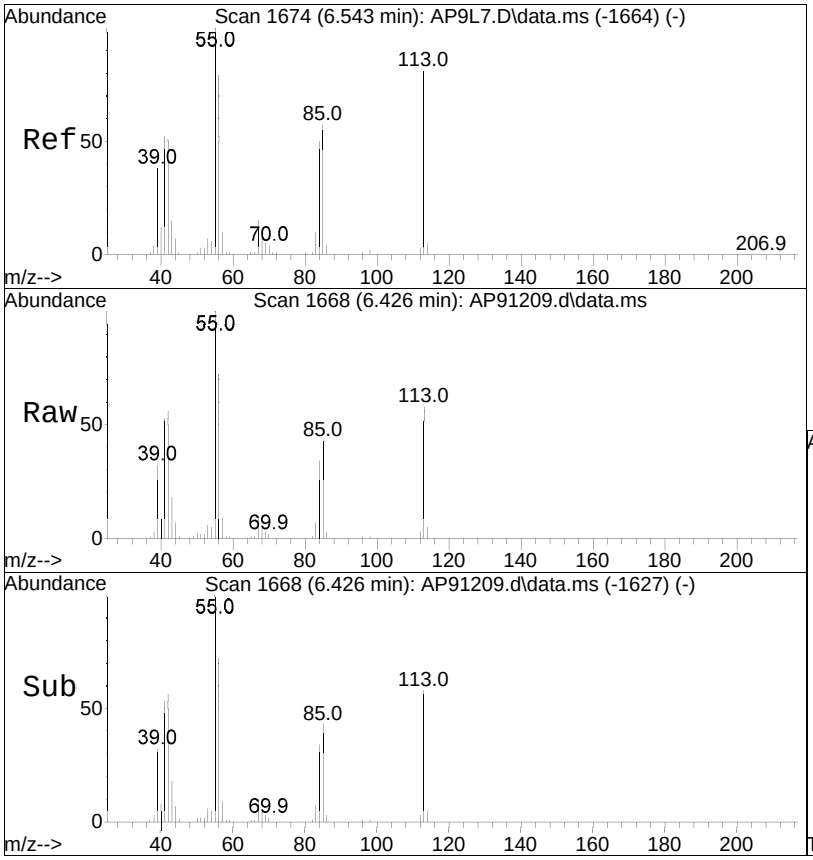


#58
1-chloro-2-nitrobenzene
Concen: 53.30 ug/ml
RT: 6.375 min Scan# 1650
Delta R.T. -0.003 min
Lab File: AP91209.d
Acq: 9 Dec 2018 5:25 pm

Tgt Ion:111 Resp: 49798

Ion	Ratio	Lower	Upper
111	100		
157	80.0	59.4	89.2
75	114.9	105.4	158.0

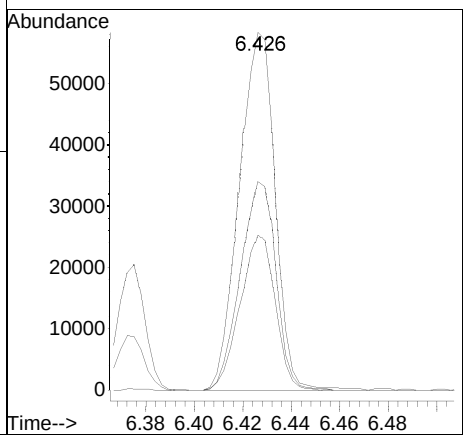


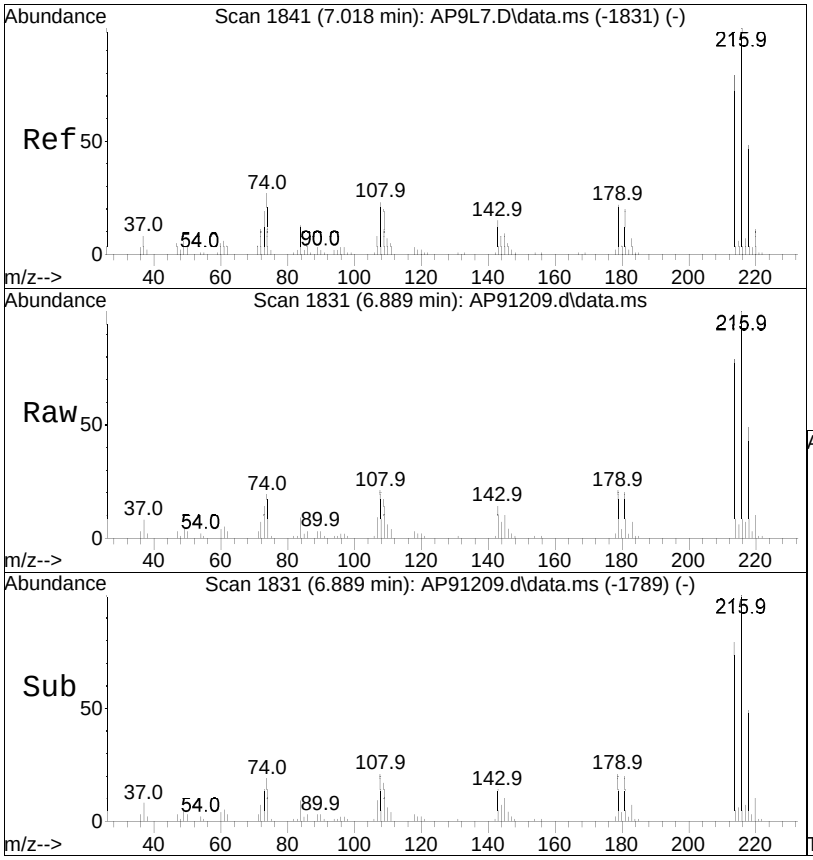


#59
Caprolactam
Concen: 47.51 ug/ml
RT: 6.426 min Scan# 1668
Delta R.T. -0.009 min
Lab File: AP91209.d
Acq: 9 Dec 2018 5:25 pm

Tgt Ion: 55 Resp: 59880

Ion	Ratio	Lower	Upper
55	100		
85	42.3	31.3	46.9
113	57.6	35.4	53.0#

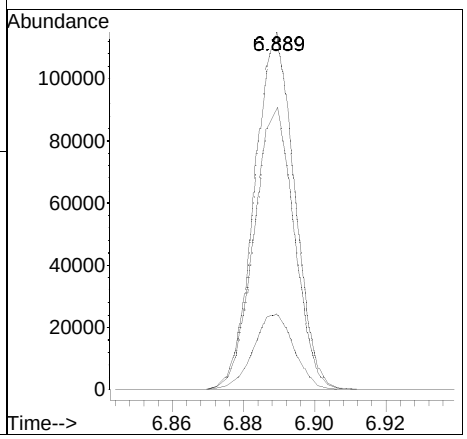


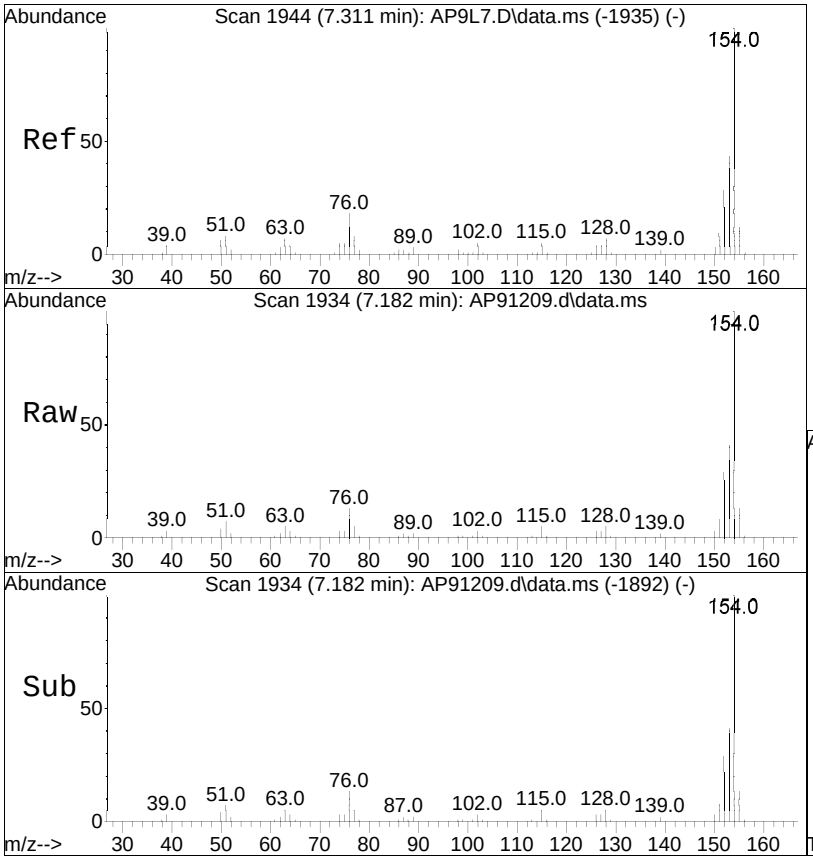


#60
1,2,4,5-Tetrachlorobenzene
Concen: 55.23 ug/ml
RT: 6.889 min Scan# 1831
Delta R.T. -0.006 min
Lab File: AP91209.d
Acq: 9 Dec 2018 5:25 pm

Tgt Ion:216 Resp: 89097

Ion	Ratio	Lower	Upper
216	100		
214	79.6	63.1	94.7
179	21.6	19.4	29.0

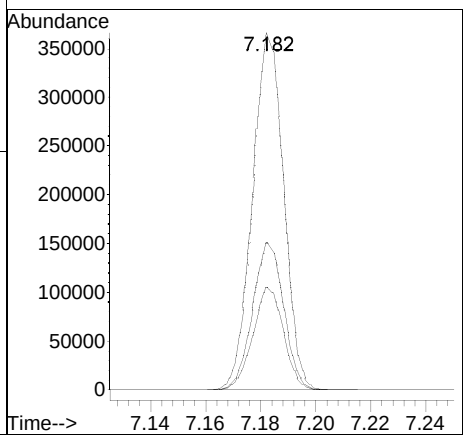


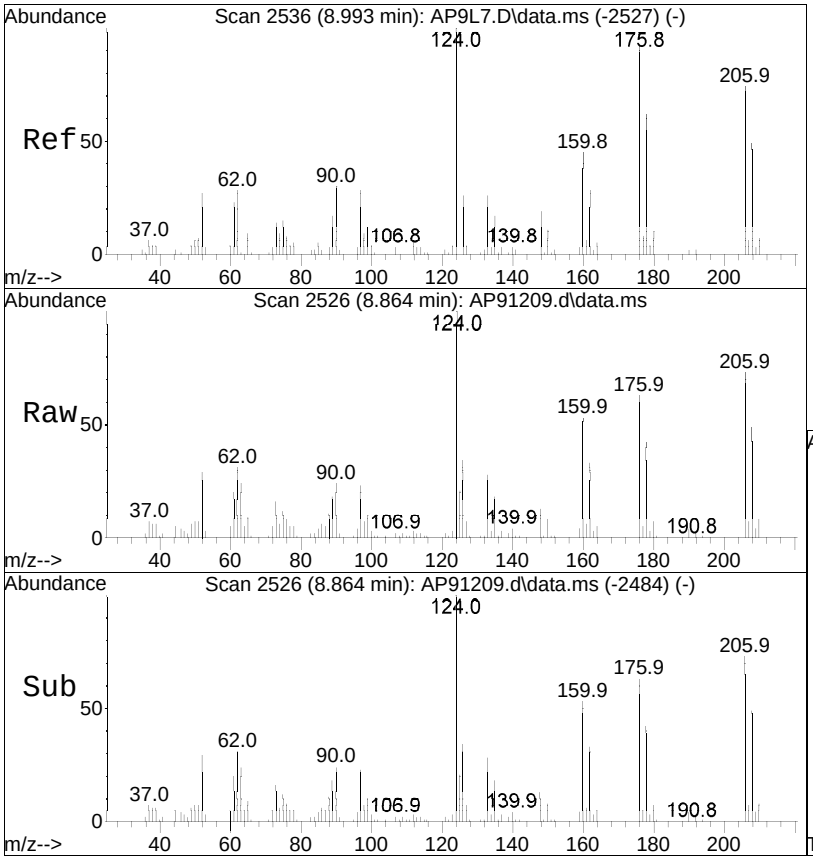


#61
Biphenyl
Concen: 54.87 ug/ml
RT: 7.182 min Scan# 1934
Delta R.T. -0.006 min
Lab File: AP91209.d
Acq: 9 Dec 2018 5:25 pm

Tgt Ion:154 Resp: 285932

Ion	Ratio	Lower	Upper
154	100		
153	41.2	33.0	49.6
152	28.3	21.7	32.5

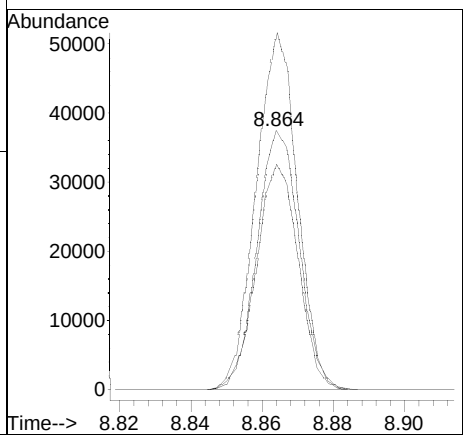


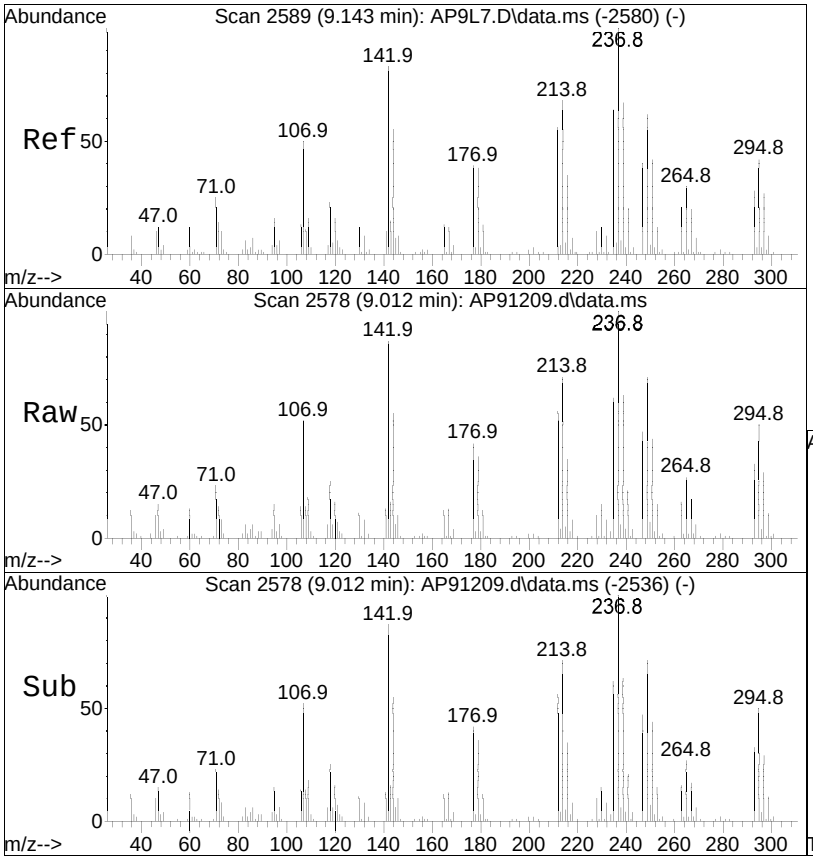


#83
Dichloran
Concen: 59.44 ug/ml
RT: 8.864 min Scan# 2526
Delta R.T. -0.006 min
Lab File: AP91209.d
Acq: 9 Dec 2018 5:25 pm

Tgt Ion:206 Resp: 30696

Ion	Ratio	Lower	Upper
206	100		
176	86.4	100.1	150.1#
124	135.4	118.6	177.8

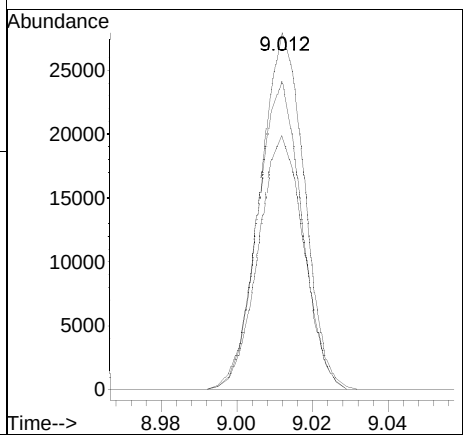


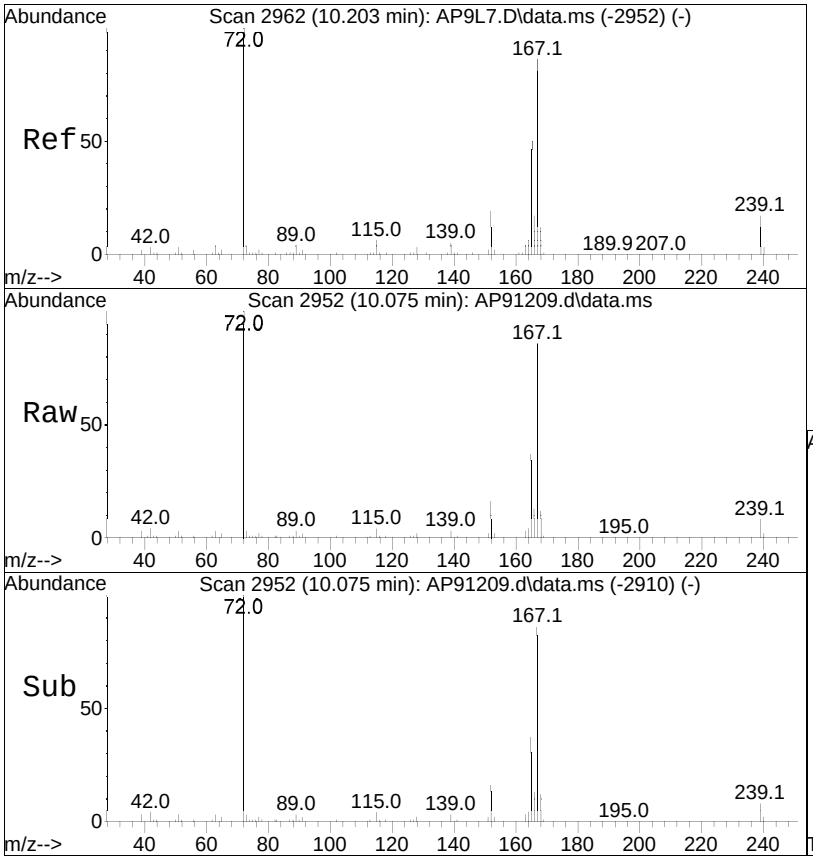


#84
Pentachloronitrobenzene
Concen: 48.46 ug/ml
RT: 9.012 min Scan# 2578
Delta R.T. -0.006 min
Lab File: AP91209.d
Acq: 9 Dec 2018 5:25 pm

Tgt Ion:237 Resp: 22593

Ion	Ratio	Lower	Upper
237	100		
142	86.4	66.1	99.1
214	73.4	56.3	84.5

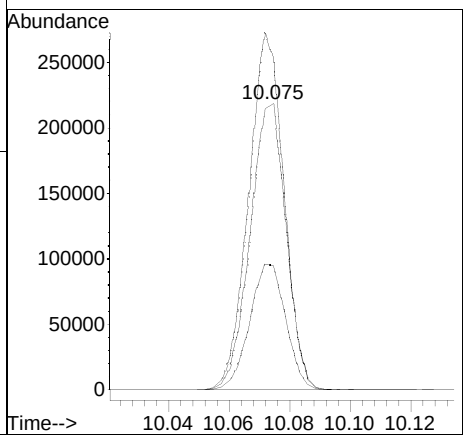




#98
Diphenamid
Concen: 55.59 ug/ml
RT: 10.075 min Scan# 2952
Delta R.T. -0.006 min
Lab File: AP91209.d
Acq: 9 Dec 2018 5:25 pm

Tgt Ion:167 Resp: 178933

Ion	Ratio	Lower	Upper
167	100		
72	121.6	108.1	162.1
165	44.2	41.1	61.7



Manual Integration Report

Data Path	: I:\8270\SV103\181209\	QMethod	: FS181204nSV103.m
Data File	: AP91209.d	Operator	: SV103:rc
Date Inj'd	: 12/9/2018 5:25 pm	Instrument	: SV103
Sample	: wg1187317-4,32,,AP9 CCV Lo	Quant Date	: 12/9/2018 6:12 pm

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : I:\8270\SV103\181209\
Data File : ADP1209.d
Acq On : 9 Dec 2018 5:51 pm
Operator : SV103:rc
Sample : wg1187317-5,32,,ADP CCV Lot# 7919
Misc : wg1187317,,ICAL15305
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Dec 09 18:13:10 2018
Quant Method : I:\8270\SV103\181209\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Dec 09 18:12:36 2018
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
32	I	IS3_1,4-Dichlorobenzene-d4	1.000	1.000	0.0	119	0.00
33	T	n-Decane	0.976	1.420	-45.5#	171	0.00
85	I	IS3_Acenaphthene-d10	1.000	1.000	0.0	125	0.00
86	T	Atrazine	0.310	0.319	-2.9	124	0.00
99	I	IS3_Phenanthrene-d10	1.000	1.000	0.0	112	0.00
100	T	n-Octadecane	0.386	0.558	-44.6#	161	0.00
101	T	Parathion	* 50.000	59.312	-18.6	139	0.00
102	T	3,3'-Dimethylbenzidine	0.671	0.792	-18.0	127	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181209\
Data File : ADP1209.d
Acq On : 9 Dec 2018 5:51 pm
Operator : SV103:rc
Sample : wg1187317-5,32,,ADP CCV Lot# 7919
Misc : wg1187317,,ICAL15305
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Dec 09 18:13:10 2018
Quant Method : I:\8270\SV103\181209\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Dec 09 18:12:36 2018
Response via : Initial Calibration

Sub List : ADPical - ADP sublist

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
32) IS3_1,4-Dichlorobenzen...	4.775	152	64268	40.000	ug/ml	0.00
85) IS3_Acenaphthene-d10	7.728	164	132109	40.000	ug/ml	0.00
99) IS3_Phenanthrene-d10	9.165	188	225714	40.000	ug/ml	0.00
System Monitoring Compounds						
Target Compounds						Qvalue
33) n-Decane	4.656	57	114113	72.786	ug/ml	88
86) Atrazine	8.938	200	52666	51.456	ug/ml	96
100) n-Octadecane	9.134	57	157367	72.299	ug/ml	93
101) Parathion	9.950	109	45136	59.312	ug/ml	99
102) 3,3'-Dimethylbenzidine	11.328	212	223578	59.078	ug/ml	99

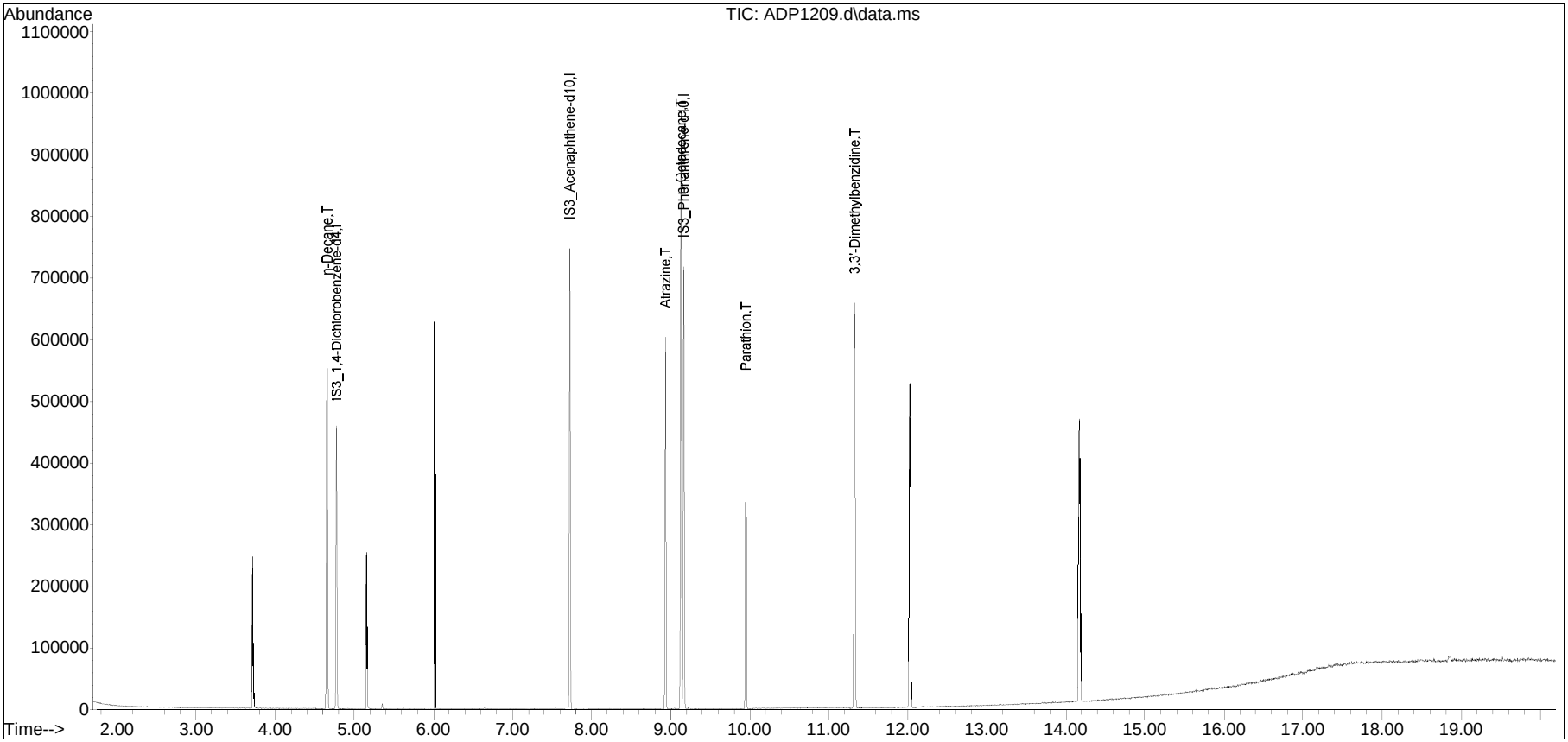
(#) = qualifier out of range (m) = manual integration (+) = signals summed

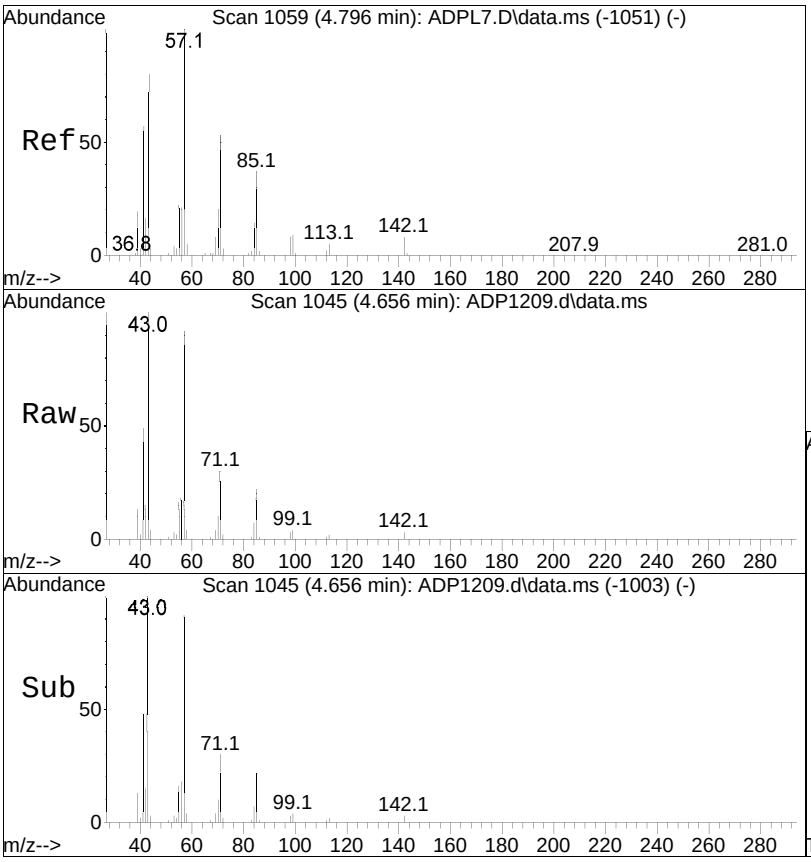
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181209\
Data File : ADP1209.d
Acq On : 9 Dec 2018 5:51 pm
Operator : SV103:rc
Sample : wg1187317-5,32,,ADP CCV Lot# 7919
Misc : wg1187317,,ICAL15305
ALS Vial : 144 Sample Multiplier: 1

Quant Time: Dec 09 18:13:10 2018
Quant Method : I:\8270\SV103\181209\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Sun Dec 09 18:12:36 2018
Response via : Initial Calibration

Sub List : ADPical - ADP sublist

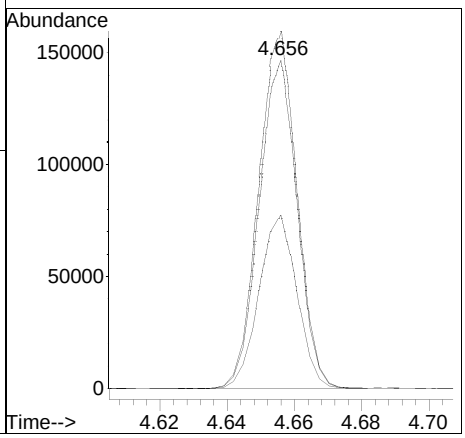


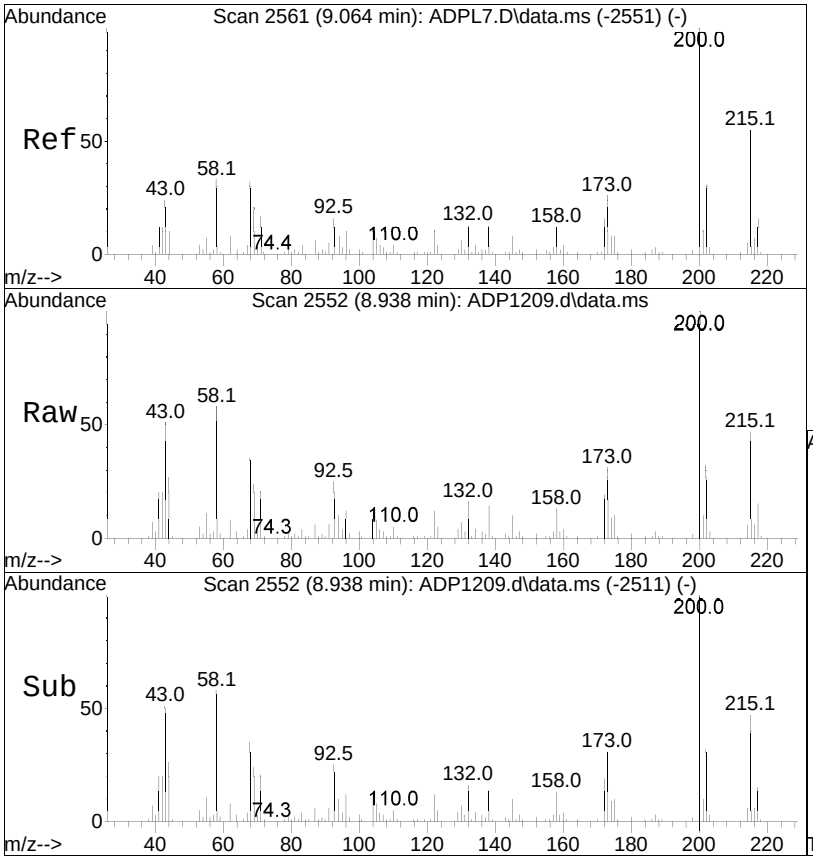


#33
n-Decane
Concen: 72.79 ug/ml
RT: 4.656 min Scan# 1045
Delta R.T. -0.006 min
Lab File: ADP1209.d
Acq: 9 Dec 2018 5:51 pm

Tgt Ion: 57 Resp: 114113

Ion	Ratio	Lower	Upper
57	100		
43	109.7	77.9	116.9
41	52.6	36.9	55.3

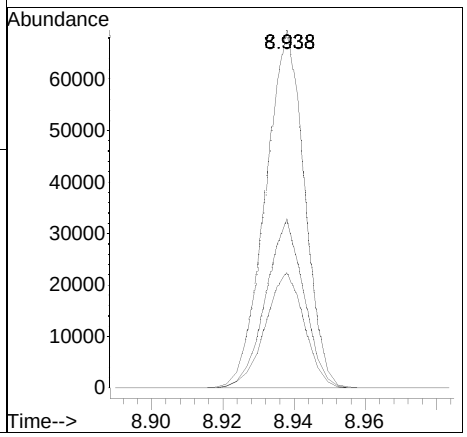


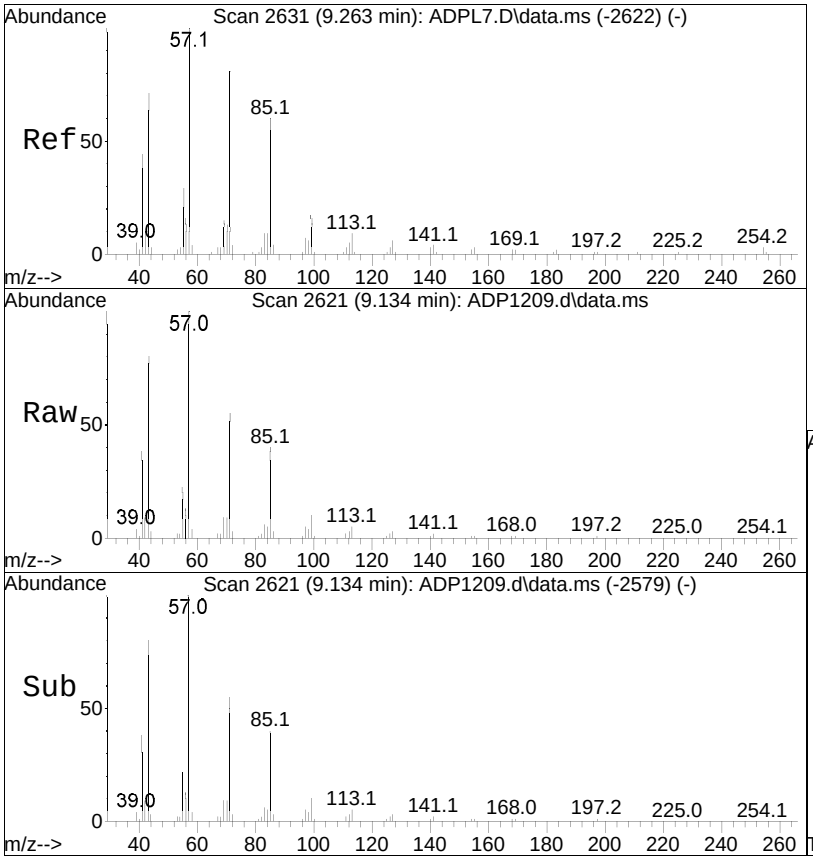


#86
Atrazine
Concen: 51.46 ug/ml
RT: 8.938 min Scan# 2552
Delta R.T. -0.009 min
Lab File: ADP1209.d
Acq: 9 Dec 2018 5:51 pm

Tgt Ion:200 Resp: 52666

Ion	Ratio	Lower	Upper
200	100		
202	32.3	24.9	37.3
215	45.9	34.0	51.0

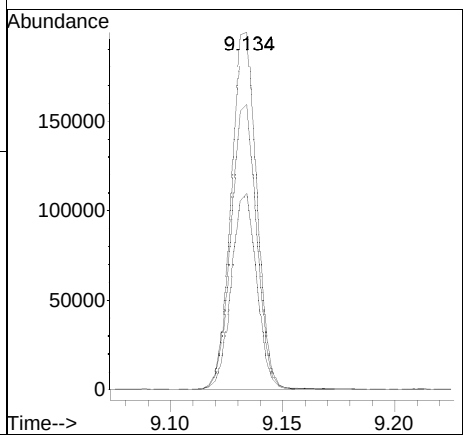


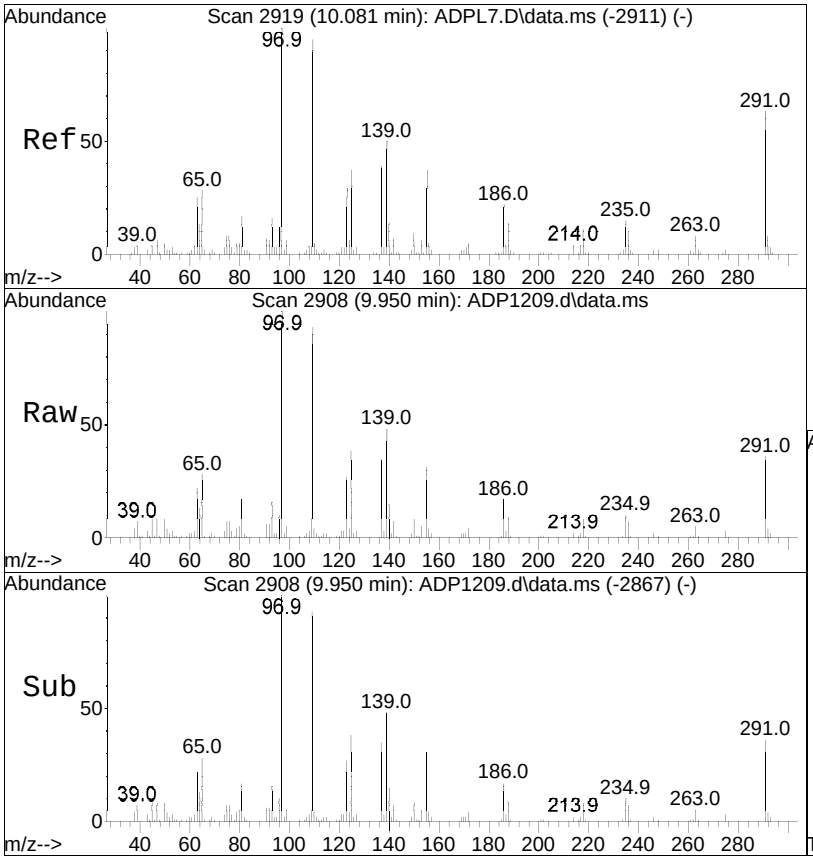


#100
n-Octadecane
Concen: 72.30 ug/ml
RT: 9.134 min Scan# 2621
Delta R.T. -0.006 min
Lab File: ADP1209.d
Acq: 9 Dec 2018 5:51 pm

Tgt Ion: 57 Resp: 157367

Ion	Ratio	Lower	Upper
57	100		
43	79.9	56.7	85.1
71	54.5	42.8	64.2

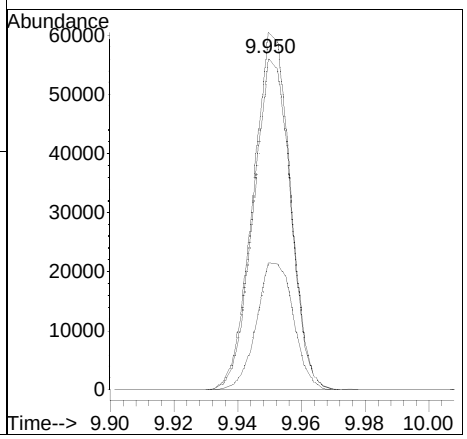


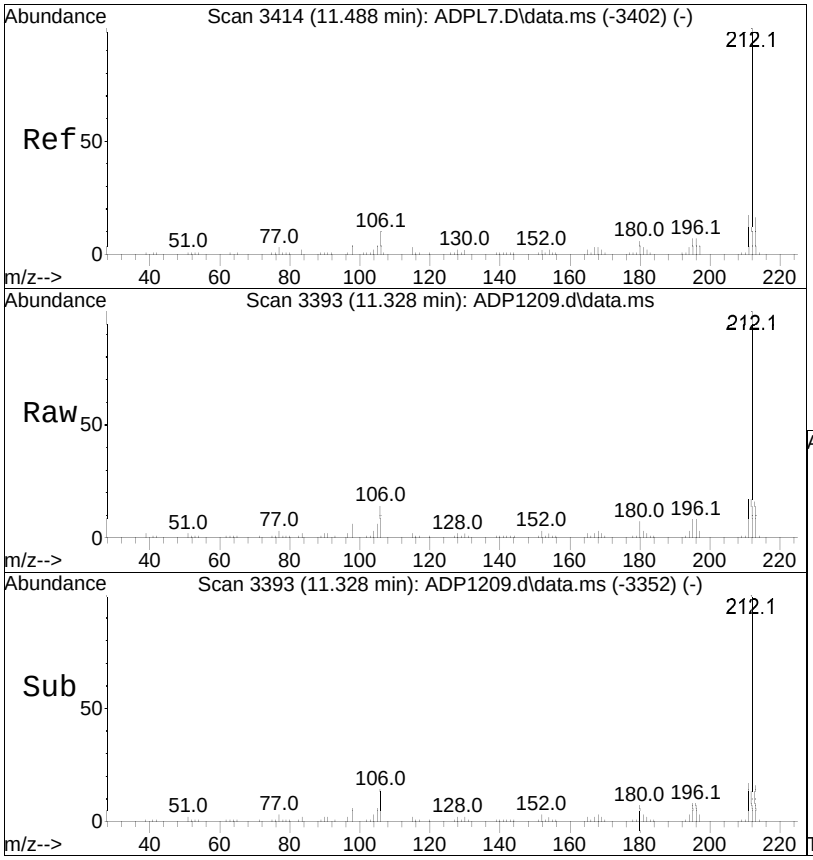


#101
Parathion
Concen: 59.31 ug/ml
RT: 9.950 min Scan# 2908
Delta R.T. -0.009 min
Lab File: ADP1209.d
Acq: 9 Dec 2018 5:51 pm

Tgt Ion:109 Resp: 45136

Ion	Ratio	Lower	Upper
109	100		
97	108.2	85.8	128.8
291	38.3	29.8	44.8

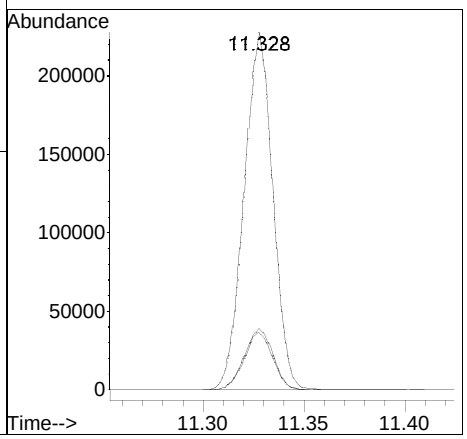




#102
3,3'-Dimethylbenzidine
Concen: 59.08 ug/ml
RT: 11.328 min Scan# 3393
Delta R.T. -0.009 min
Lab File: ADP1209.d
Acq: 9 Dec 2018 5:51 pm

Tgt Ion:212 Resp: 223578

Ion	Ratio	Lower	Upper
212	100		
211	17.2	13.5	20.3
213	15.9	13.4	20.0



Manual Integration Report

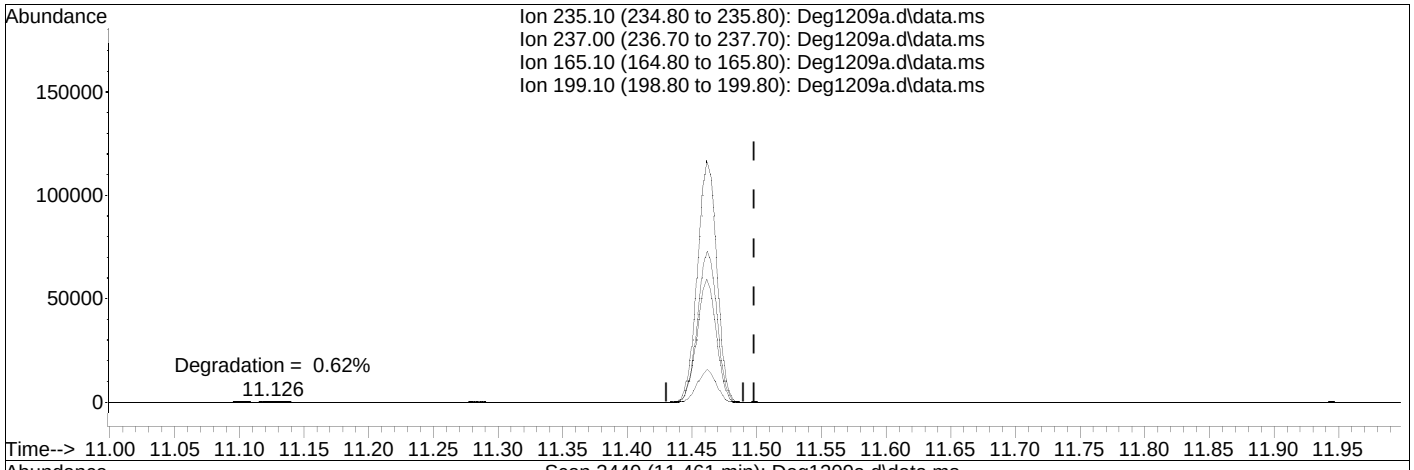
Data Path	: I:\8270\SV103\181209\	QMethod	: FS181204nSV103.m
Data File	: ADP1209.d	Operator	: SV103:rc
Date Inj'd	: 12/9/2018 5:51 pm	Instrument	: SV103
Sample	: wg1187317-5,32,,ADP CCV Lo	Quant Date	: 12/9/2018 6:12 pm

There are no manual integrations or false positives in this file.

Quantitation Report (Qedit)

Data Path : I:\8270\SV103\181209\
Data File : Deg1209a.d
Acq On : 9 Dec 2018 4:30 pm
Operator : SV103:rc
Sample : wg1187317-2,32,,SV103Degdftp
Misc : wg1187317,,ICAL15305
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Dec 09 16:57:41 2018
Quant Method : I:\8270\SV103\181209\dftppSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Nov 07 09:14:14 2017
Response via : Initial Calibration



CHROMtools™ [wg1187317-2,32,,SV103Degdftp]

(6) ddt (T)

11.461min (-0.037) 0.00

response 118324

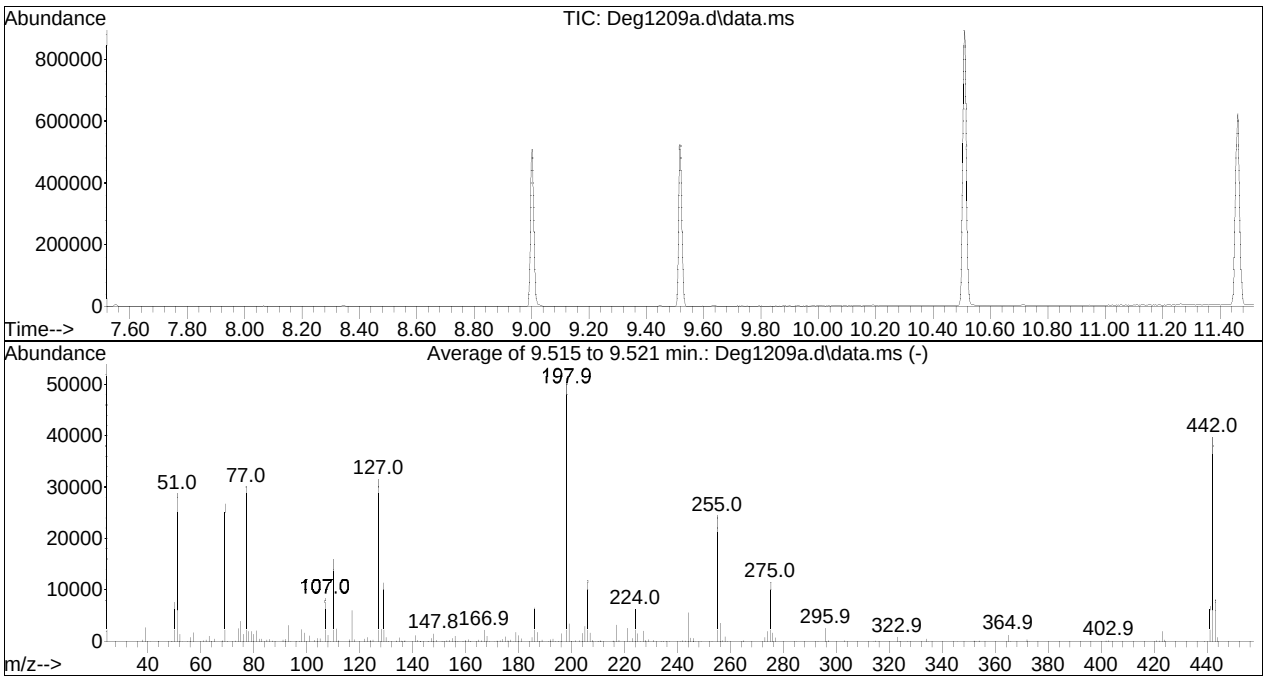
Ion	Exp%	Act%
235.10	100.00	100.00
237.00	62.40	63.30
165.10	55.50	50.86
199.10	14.50	13.32

dftppSV103.m Mon Dec 10 08:09:30 2018 TEST

Data Path : I:\8270\SV103\181209\
Data File : Deg1209a.d
Acq On : 9 Dec 2018 4:30 pm
Operator : SV103:rc
Sample : wg1187317-1,32,,SV103Degdftp
Misc : wg1187317,,ICAL15305
ALS Vial : 141 Sample Multiplier: 1

Integration File: rteint.p

Method : I:\8270\SV103\181209\FS181204nSV103.m
Title : Semivolatiles by GC/MS by modified 8270
Last Update : Mon Dec 10 08:06:53 2018



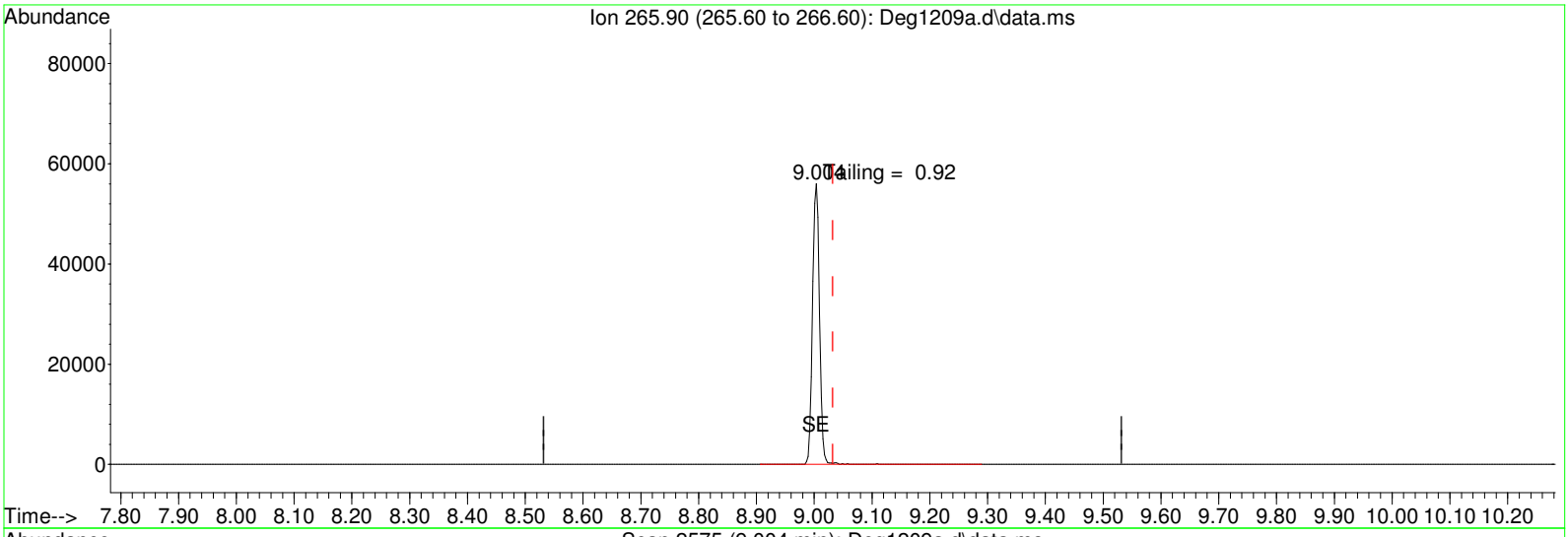
Spectrum Information: Average of 9.515 to 9.521 min.

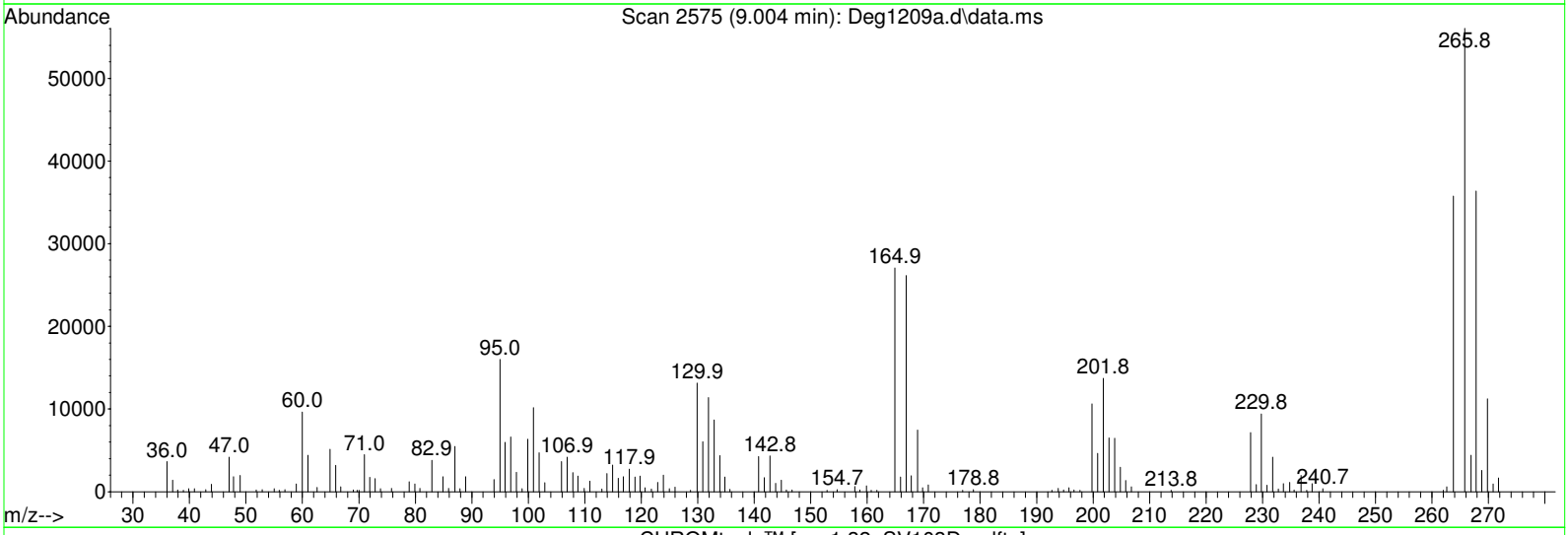
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	56.0	28757	PASS
68	69	0.00	2	1.3	341	PASS
70	69	0.00	2	0.8	203	PASS
127	198	10	80	61.5	31547	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	51309	PASS
199	198	5	9	6.8	3473	PASS
275	198	10	60	22.4	11499	PASS
365	198	1	100	2.6	1349	PASS
441	442	0.01	24	17.3	6884	PASS
442	198	50	100	77.5	39739	PASS
443	442	15	24	20.6	8198	PASS

Quantitation Report (Qedit)

Data Path : I:\8270\SV103\181209\
Data File : Deg1209a.d
Acq On : 9 Dec 2018 4:30 pm
Operator : SV103:
Sample : wg-1,32,,SV103Degdftp
Misc : wg,wg,ical
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Dec 09 16:57:41 2018
Quant Method : I:\8270\SV103\181209\dftppSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Nov 07 09:14:14 2017
Response via : Initial Calibration





CHROMtools™ [wg-1,32,,SV103Degdftp]

(1) pentachlorophenol (T)

9.004min (-0.028) 0.00

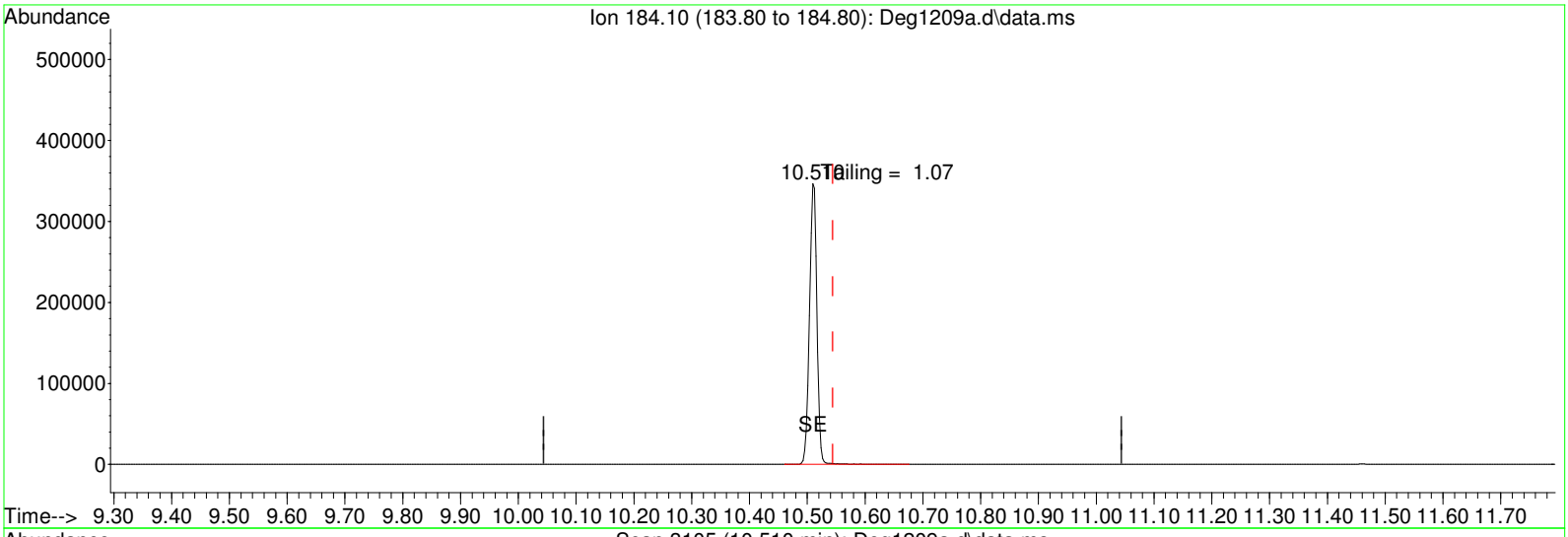
response 46571

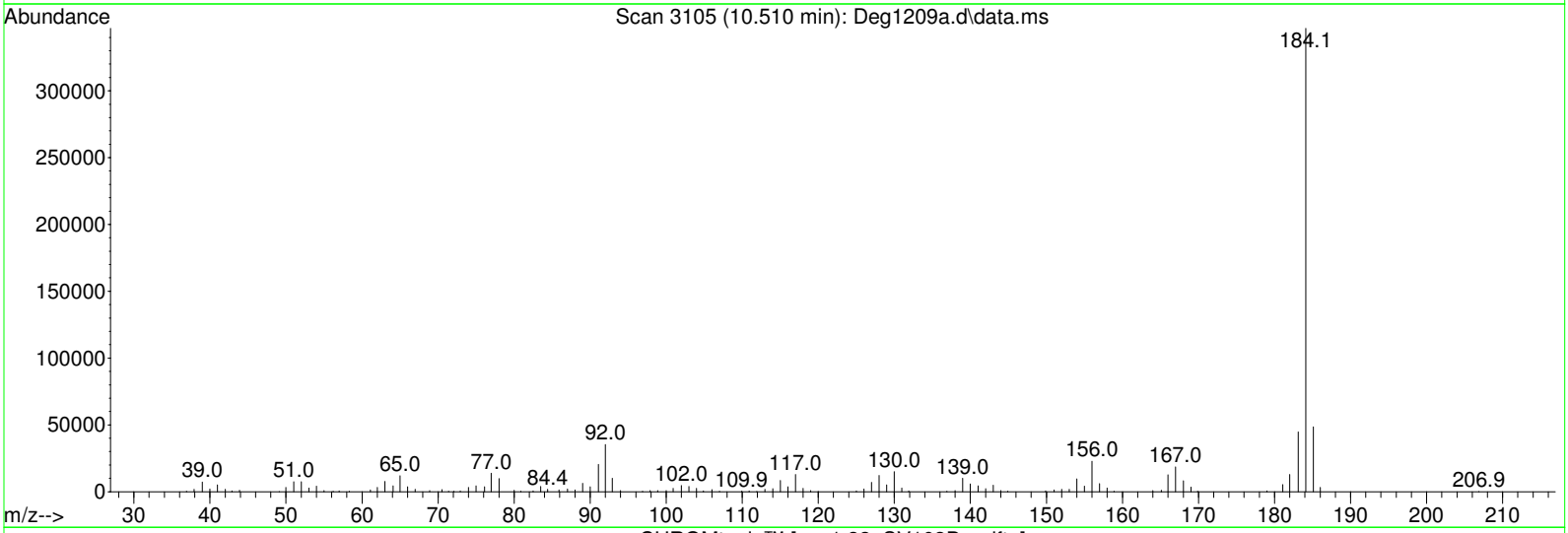
Ion	Exp%	Act%
265.90	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\8270\SV103\181209\
Data File : Deg1209a.d
Acq On : 9 Dec 2018 4:30 pm
Operator : SV103:
Sample : wg-1,32,,SV103Degdftp
Misc : wg,wg,ical
ALS Vial : 141 Sample Multiplier: 1

Quant Time: Dec 09 16:57:41 2018
Quant Method : I:\8270\SV103\181209\dftppSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Tue Nov 07 09:14:14 2017
Response via : Initial Calibration





CHROMtools™ [wg-1,32,,SV103Degdftp]

(3) benzidine (T)

10.510min (-0.034) 0.00

response 309568

Ion	Exp%	Act%
184.10	100.00	100.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Semivolatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181205\
Data File : 184852-1.D
Acq On : 5 Dec 2018 4:59 pm
Operator : sv109:jg
Sample : wg1184852-1,32,,ny,eh
Misc : wg1185944,wg1184852,ical15112
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 06 14:42:07 2018
Quant Method : I:\8270\SV109\181205\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 20:09:16 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\181205\ABN1205a.D
: 2 - I:\8270\SV109\181205\ADP1205.D
: 3 - I:\8270\SV109\181205\AP91205.D
Sub List : 8270TCL_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.749	152	124255	40.000	ug/ml	0.00
Standard Area 1 = 124127			Recovery = 100.10%			
27) IS2_1,4-Dichlorobenzen...	4.749	152	124255	40.000	ug/ml	0.00
Standard Area 3 = 124227			Recovery = 100.02%			
34) IS1_Naphthalene-d8	5.989	136	523649	40.000	ug/ml	0.00
Standard Area 1 = 530407			Recovery = 98.73%			
54) IS2_Naphthalene-d8	5.989	136	523649	40.000	ug/ml	0.00
Standard Area 3 = 535508			Recovery = 97.79%			
62) IS1_Acenaphthene-d10	7.698	164	268554	40.000	ug/ml	0.00
Standard Area 1 = 294014			Recovery = 91.34%			
82) IS2_Acenaphthene-d10	7.698	164	268554	40.000	ug/ml	0.00
Standard Area 3 = 298790			Recovery = 89.88%			
85) IS3_Acenaphthene-d10	7.698	164	268554	40.000	ug/ml	0.00
Standard Area 2 = 298886			Recovery = 89.85%			
87) IS1_Phenanthrene-d10	9.134	188	591253	40.000	ug/ml	0.00
Standard Area 1 = 574704			Recovery = 102.88%			
99) IS3_Phenanthrene-d10	9.134	188	591253	40.000	ug/ml	0.00
Standard Area 2 = 592015			Recovery = 99.87%			
103) IS1_Chrysene-d12	11.987	240	621108	40.000	ug/ml	0.00
Standard Area 1 = 594823			Recovery = 104.42%			
112) IS1_Perylene-d12	14.117	264	665262	40.000	ug/ml	0.00
Standard Area 1 = 616042			Recovery = 107.99%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.468	112	146185	38.073	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 130		Recovery = 76.15%			
7) Phenol-d6	4.422	99	181494	38.029	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 130		Recovery = 76.06%			
19) Nitrobenzene-d5	5.290	82	79728	17.758	ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery = 71.03%			
45) 2-Fluorobiphenyl	7.061	172	190805	18.927	ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery = 75.71%			
78) 2,4,6-Tribromophenol	8.463	330	65631	36.946	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 130		Recovery = 73.89%			
95) 4-Terphenyl-d14	10.735	244	259265	18.666	ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery = 74.66%			

Data Path : I:\8270\SV109\181205\
Data File : 184852-1.D
Acq On : 5 Dec 2018 4:59 pm
Operator : sv109:jg
Sample : wg1184852-1,32,,ny,eh
Misc : wg1185944,wg1184852,ical15112
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 06 14:42:07 2018
Quant Method : I:\8270\SV109\181205\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 20:09:16 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\181205\ABN1205a.D
: 2 - I:\8270\SV109\181205\ADP1205.D
: 3 - I:\8270\SV109\181205\AP91205.D
Sub List : 8270TCL_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	0.000		0	N.D.		
8) Phenol	0.000		0	N.D.		
9) Bis(2-chloroethyl)ether	0.000		0	N.D.		
14) Bis(2-chloroisopropyl)...	0.000		0	N.D.		
15) 2-Methylphenol	0.000		0	N.D.		
16) Hexachloroethane	0.000		0	N.D.		
17) n-Nitrosodi-n-propylamine	0.000		0	N.D.		
18) 3-Methylphenol/4-Methy...	0.000		0	N.D.		
20) Nitrobenzene	0.000		0	N.D.		
21) Isophorone	0.000		0	N.D.		
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	0.000		0	N.D.		
24) Bis(2-chloroethoxy)met...	0.000		0	N.D.		
25) 2,4-Dichlorophenol	0.000		0	N.D.		
28) Benzaldehyde	0.000		0	N.D.		
29) Acetophenone	0.000		0	N.D.		
35) Naphthalene	0.000		0	N.D.		
37) 4-Chloroaniline	0.000		0	N.D.		d
38) Hexachlorobutadiene	0.000		0	N.D.		
39) p-Chloro-m-cresol	0.000		0	N.D.		
40) 2-Methylnaphthalene	0.000		0	N.D.		
42) Hexachlorocyclopentadiene	0.000		0	N.D.		
43) 2,4,6-Trichlorophenol	0.000		0	N.D.		
44) 2,4,5-Trichlorophenol	0.000		0	N.D.		
46) 2-Chloronaphthalene	0.000		0	N.D.		
47) 2-Nitroaniline	0.000		0	N.D.		
50) Dimethyl phthalate	0.000		0	N.D.		
51) Acenaphthylene	0.000		0	N.D.		
52) 2,6-Dinitrotoluene	0.000		0	N.D.		
59) Caprolactam	0.000		0	N.D.		
60) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.		
61) Biphenyl	0.000		0	N.D.		
63) 3-Nitroaniline	0.000		0	N.D.		
64) Acenaphthene	0.000		0	N.D.		d
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	0.000		0	N.D.		

Data Path : I:\8270\SV109\181205\
Data File : 184852-1.D
Acq On : 5 Dec 2018 4:59 pm
Operator : sv109:jg
Sample : wg1184852-1,32,,ny,eh
Misc : wg1185944,wg1184852,ical15112
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 06 14:42:07 2018
Quant Method : I:\8270\SV109\181205\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 20:09:16 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\181205\ABN1205a.D
: 2 - I:\8270\SV109\181205\ADP1205.D
: 3 - I:\8270\SV109\181205\AP91205.D
Sub List : 8270TCL_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
67) 2,4-Dinitrotoluene	0.000		0	N.D.		
68) 4-Nitrophenol	0.000		0	N.D.		
70) 2,3,4,6-Tetrachlorophenol	0.000		0	N.D.		
71) Diethyl phthalate	0.000		0	N.D.		
72) Fluorene	0.000		0	N.D.		
73) 4-Chlorophenyl phenyl ...	0.000		0	N.D.		
74) 4-Nitroaniline	0.000		0	N.D.		
75) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
76) NDPA/DPA	0.000		0	N.D.	d	
79) 4-Bromophenyl phenyl e...	0.000		0	N.D.		
80) Hexachlorobenzene	0.000		0	N.D.		
81) Pentachlorophenol	0.000		0	N.D.		
86) Atrazine	0.000		0	N.D.		
88) Phenanthrene	0.000		0	N.D.		
89) Anthracene	0.000		0	N.D.		
90) Carbazole	0.000		0	N.D.		
91) Di-n-butylphthalate	0.000		0	N.D.	d	
92) Fluoranthene	0.000		0	N.D.		
94) Pyrene	0.000		0	N.D.		
96) Butyl benzyl phthalate	0.000		0	N.D.		
104) Benzo(a)anthracene	0.000		0	N.D.	d	
105) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
106) Chrysene	0.000		0	N.D.	d	
107) Bis(2-ethylhexyl)phtha...	0.000		0	N.D.	d	
108) Di-n-octylphthalate	0.000		0	N.D.	d	
109) Benzo(b)fluoranthene	0.000		0	N.D.	d	
110) Benzo(k)fluoranthene	0.000		0	N.D.	d	
111) Benzo(a)pyrene	0.000		0	N.D.	d	
113) Indeno(1,2,3-cd)pyrene	0.000		0	N.D.	d	
114) Dibenzo(a,h)anthracene	0.000		0	N.D.		
115) Benzo(ghi)perylene	0.000		0	N.D.	d	

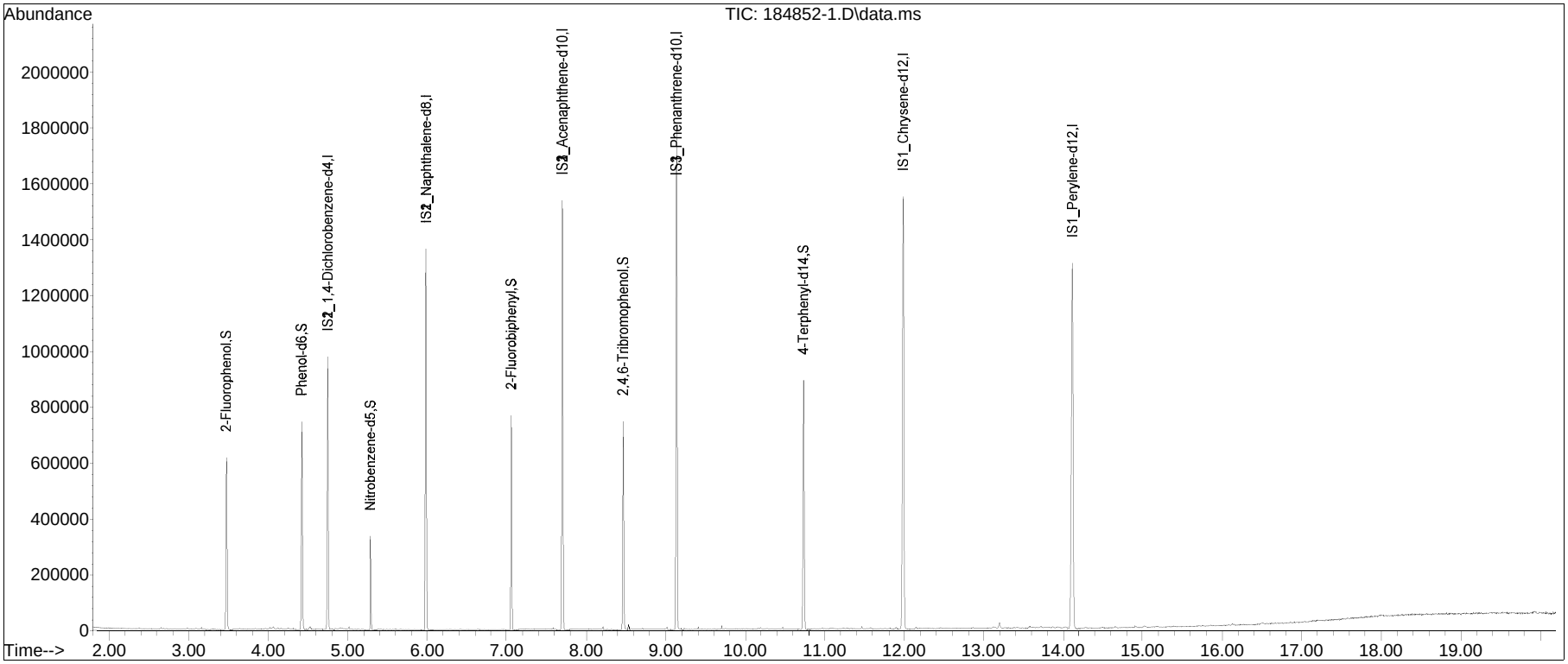
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181205\
Data File : 184852-1.D
Acq On : 5 Dec 2018 4:59 pm
Operator : sv109:jg
Sample : wg1184852-1,32,,ny,eh
Misc : wg1185944,wg1184852,ical15112
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 06 14:42:07 2018
Quant Method : I:\8270\SV109\181205\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 20:09:16 2018
Response via : Initial Calibration

Sub List : 8270TCL_REV1 - TCL/CT/MA\AP91205.D••



Manual Integration Report

Data Path	: I:\8270\SV109\181205\	QMethod	: FS1801003nSV109.m
Data File	: 184852-1.D	Operator	: sv109:jg
Date Inj'd	: 12/5/2018 4:59 pm	Instrument	: SV109
Sample	: wg1184852-1,32,,ny,eh	Quant Date	: 12/5/2018 8:09 pm

There are no manual integrations or false positives in this file.

LSC Area Percent Report

Data Path : I:\8270\SV109\181205\
Data File : 184852-1.D
Acq On : 5 Dec 2018 4:59 pm
Operator : sv109:jg
Sample : wg1184852-1,32,,ny,eh
Misc : wg1185944,wg1184852,ical15112
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 615 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : I:\8270\SV109\181205\FS1801003nSV109.m
Title : Semivolatiles by GC/MS by modified 8270

Signal : TIC: 184852-1.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.468	535	541	551	rBV	614661	534893	27.96%	4.528%
2	4.422	841	848	858	rBV	744039	591375	30.92%	5.007%
3	4.749	945	953	960	rBV	975778	778739	40.71%	6.593%
4	5.290	1121	1127	1136	rVB	335792	272620	14.25%	2.308%
5	5.989	1345	1352	1361	rVB	1364220	1075540	56.23%	9.106%
6	7.061	1690	1697	1704	rVB	767198	577452	30.19%	4.889%
7	7.698	1895	1902	1912	rBV2	1537527	1306841	68.32%	11.064%
8	8.463	2141	2148	2161	rVB	744930	584880	30.58%	4.952%
9	9.134	2357	2364	2374	rBV2	1805541	1499993	78.42%	12.699%
10	10.735	2868	2879	2890	rVB2	892742	829299	43.36%	7.021%
11	11.987	3269	3282	3298	rBV2	1548183	1817404	95.01%	15.386%
12	13.200	3664	3672	3683	rBV8	17930	29985	1.57%	0.254%
13	14.117	3954	3967	3979	rBV2	1307460	1912767	100.00%	16.194%

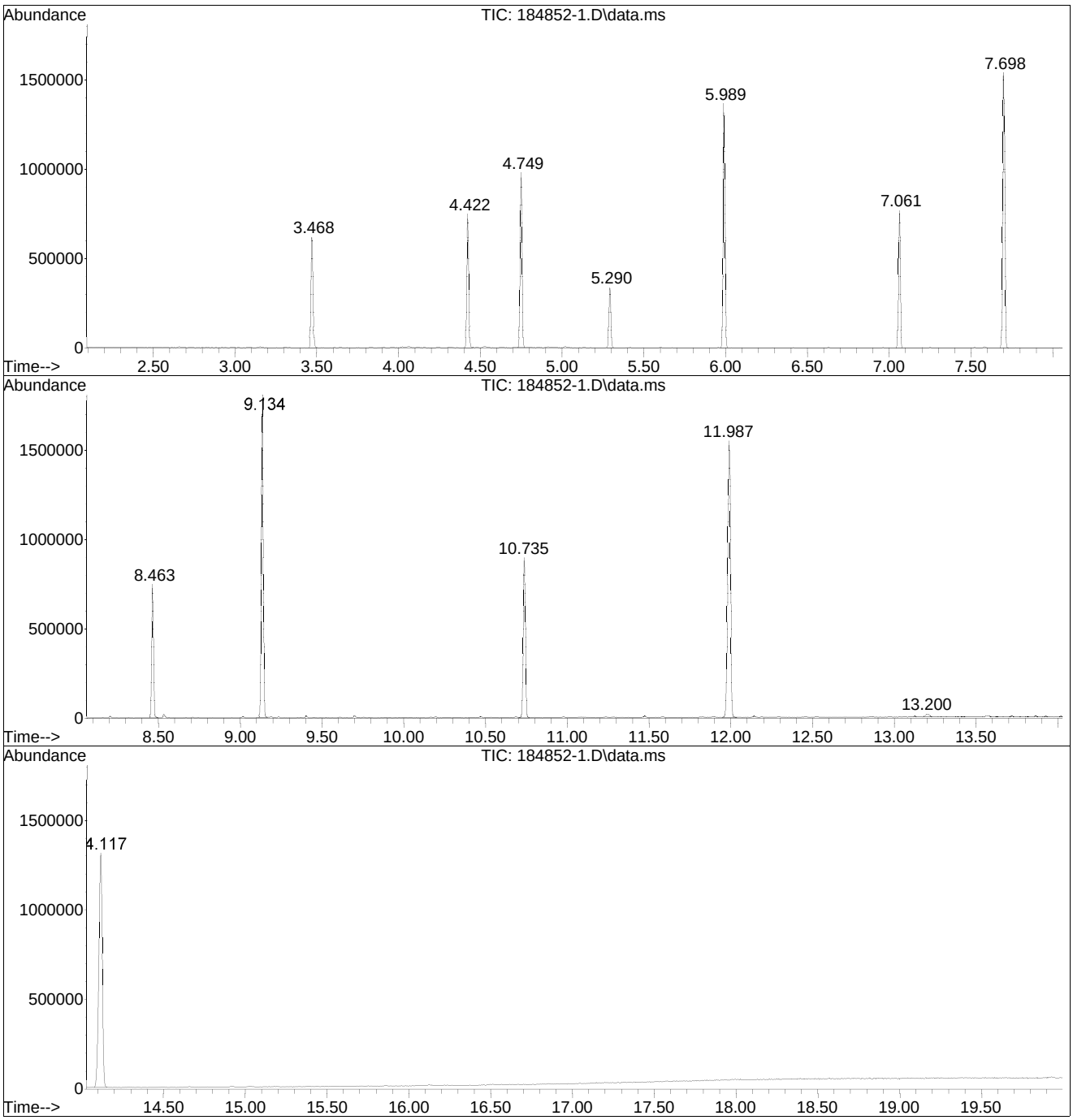
Sum of corrected areas: 11811788

LSC Report - Integrated Chromatogram

Data Path : I:\8270\SV109\181205\
Data File : 184852-1.D
Acq On : 5 Dec 2018 4:59 pm
Operator : sv109:jg
Sample : wg1184852-1,32,,ny,eh
Misc : wg1185944,wg1184852,ical15112
ALS Vial : 6 Sample Multiplier: 1

Quant Method : I:\8270\SV109\181205\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : I:\8270\SV109\181205\
Data File : 184852-1.D
Acq On : 5 Dec 2018 4:59 pm
Operator : sv109:jg
Sample : wg1184852-1,32,,ny,eh
Misc : wg1185944,wg1184852,ical15112
ALS Vial : 6 Sample Multiplier: 1

Quant Method : I:\8270\SV109\181205\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : I:\8270\SV109\181205\
Data File : 184852-1.D
Acq On : 5 Dec 2018 4:59 pm
Operator : sv109:jg
Sample : wg1184852-1,32,,ny,eh
Misc : wg1185944,wg1184852,ical15112
ALS Vial : 6 Sample Multiplier: 1

Quant Method : I:\8270\SV109\181205\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270

TIC Library : I:\nist-db\NIST02.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181205\
Data File : 184852-2.D
Acq On : 5 Dec 2018 5:24 pm
Operator : sv109:jg
Sample : wg1184852-2,32,,ny,eh
Misc : wg1185944,wg1184852,ical15112
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 06 14:43:04 2018
Quant Method : I:\8270\SV109\181205\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 20:09:16 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\181205\ABN1205a.D
: 2 - I:\8270\SV109\181205\ADP1205.D
: 3 - I:\8270\SV109\181205\AP91205.D
Sub List : 8270TCL_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.749	152	121662	40.000	ug/ml	0.00
Standard Area 1 = 124127			Recovery = 98.01%			
27) IS2_1,4-Dichlorobenzen...	4.749	152	121662	40.000	ug/ml	0.00
Standard Area 3 = 124227			Recovery = 97.94%			
34) IS1_Naphthalene-d8	5.989	136	525656	40.000	ug/ml	0.00
Standard Area 1 = 530407			Recovery = 99.10%			
54) IS2_Naphthalene-d8	5.989	136	525656	40.000	ug/ml	0.00
Standard Area 3 = 535508			Recovery = 98.16%			
62) IS1_Acenaphthene-d10	7.698	164	269439	40.000	ug/ml	0.00
Standard Area 1 = 294014			Recovery = 91.64%			
82) IS2_Acenaphthene-d10	7.698	164	269439	40.000	ug/ml	0.00
Standard Area 3 = 298790			Recovery = 90.18%			
85) IS3_Acenaphthene-d10	7.698	164	269439	40.000	ug/ml	0.00
Standard Area 2 = 298886			Recovery = 90.15%			
87) IS1_Phenanthrene-d10	9.134	188	577516	40.000	ug/ml	0.00
Standard Area 1 = 574704			Recovery = 100.49%			
99) IS3_Phenanthrene-d10	9.134	188	577516	40.000	ug/ml	0.00
Standard Area 2 = 592015			Recovery = 97.55%			
103) IS1_Chrysene-d12	11.991	240	596977	40.000	ug/ml	0.00
Standard Area 1 = 594823			Recovery = 100.36%			
112) IS1_Perylene-d12	14.120	264	644665	40.000	ug/ml	0.00
Standard Area 1 = 616042			Recovery = 104.65%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.471	112	144332	38.391	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 130		Recovery = 76.78%			
7) Phenol-d6	4.426	99	179270	38.363	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 130		Recovery = 76.73%			
19) Nitrobenzene-d5	5.293	82	78497	17.856	ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery = 71.42%			
45) 2-Fluorobiphenyl	7.061	172	185667	18.347	ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery = 73.39%			
78) 2,4,6-Tribromophenol	8.466	330	65243	36.607	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 130		Recovery = 73.21%			
95) 4-Terphenyl-d14	10.735	244	234585	17.291	ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery = 69.16%			

Data Path : I:\8270\SV109\181205\
Data File : 184852-2.D
Acq On : 5 Dec 2018 5:24 pm
Operator : sv109:jg
Sample : wg1184852-2,32,,ny,eh
Misc : wg1185944,wg1184852,ical15112
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 06 14:43:04 2018
Quant Method : I:\8270\SV109\181205\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 20:09:16 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\181205\ABN1205a.D
: 2 - I:\8270\SV109\181205\ADP1205.D
: 3 - I:\8270\SV109\181205\AP91205.D
Sub List : 8270TCL_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	4.544	128	133426	30.754	ug/ml	96
8) Phenol	4.438	94	158917	31.575	ug/ml	88
9) Bis(2-chloroethyl)ether	4.506	93	107369	26.426	ug/ml	94
14) Bis(2-chloroisopropyl)...	5.044	45	243294	35.597	ug/ml	97
15) 2-Methylphenol	5.032	108	117930	31.065	ug/ml	99
16) Hexachloroethane	5.240	117	50590	25.174	ug/ml	98
17) n-Nitrosodi-n-propylamine	5.168	70	84877	28.761	ug/ml	98
18) 3-Methylphenol/4-Methy...	5.184	108	126667	32.020	ug/ml	99
20) Nitrobenzene	5.311	77	126124	28.095	ug/ml	97
21) Isophorone	5.554	82	229047	28.527	ug/ml	97
22) 2-Nitrophenol	5.625	139	74047	35.051	ug/ml	97
23) 2,4-Dimethylphenol	5.700	107	131801	34.329	ug/ml	99
24) Bis(2-chloroethoxy)met...	5.787	93	150467	28.993	ug/ml#	95
25) 2,4-Dichlorophenol	5.868	162	114441	31.945	ug/ml	98
28) Benzaldehyde	4.314	105	85366	25.236	ug/ml	97
29) Acetophenone	5.153	105	179039	30.954	ug/ml	94
35) Naphthalene	6.011	128	391459	28.567	ug/ml	100
37) 4-Chloroaniline	6.079	65	36577	21.256	ug/ml	86
38) Hexachlorobutadiene	6.157	225	63841	25.020	ug/ml	99
39) p-Chloro-m-cresol	6.576	107	122992	33.457	ug/ml	98
40) 2-Methylnaphthalene	6.691	142	273278	29.981	ug/ml	97
42) Hexachlorocyclopentadiene	6.859	237	82100	27.138	ug/ml	97
43) 2,4,6-Trichlorophenol	6.977	196	89435	33.736	ug/ml	98
44) 2,4,5-Trichlorophenol	7.011	196	95364	33.492	ug/ml	99
46) 2-Chloronaphthalene	7.161	162	254978	29.740	ug/ml	95
47) 2-Nitroaniline	7.269	138	98041	36.168	ug/ml	96
50) Dimethyl phthalate	7.468	163	327117	32.234	ug/ml	100
51) Acenaphthylene	7.559	152	431574	31.274	ug/ml	99
52) 2,6-Dinitrotoluene	7.515	165	71735	33.997	ug/ml	99
59) Caprolactam	6.396	55	80377	37.652	ug/ml	98
60) 1,2,4,5-Tetrachloroben...	6.859	216	122288	29.327	ug/ml	98
61) Biphenyl	7.151	154	326301	31.222	ug/ml	99
63) 3-Nitroaniline	7.667	138	69866	28.083	ug/ml#	94
64) Acenaphthene	7.729	154	242266	29.406	ug/ml	98
65) 2,4-Dinitrophenol	7.773	184	28709	24.127	ug/ml	95
66) Dibenzofuran	7.900	168	386050	29.871	ug/ml	97

Data Path : I:\8270\SV109\181205\
Data File : 184852-2.D
Acq On : 5 Dec 2018 5:24 pm
Operator : sv109:jg
Sample : wg1184852-2,32,,ny,eh
Misc : wg1185944,wg1184852,ical15112
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 06 14:43:04 2018
Quant Method : I:\8270\SV109\181205\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 20:09:16 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\181205\ABN1205a.D
: 2 - I:\8270\SV109\181205\ADP1205.D
: 3 - I:\8270\SV109\181205\AP91205.D
Sub List : 8270TCL_REV1 - TCL/CT/MA

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
67)	2,4-Dinitrotoluene	7.904	165	101490	35.026	ug/ml	92
68)	4-Nitrophenol	7.857	65	69582	33.621	ug/ml	97
70)	2,3,4,6-Tetrachlorophenol	8.031	232	82169	31.023	ug/ml	99
71)	Diethyl phthalate	8.162	149	351455	32.436	ug/ml	100
72)	Fluorene	8.233	166	312014	31.244	ug/ml	99
73)	4-Chlorophenyl phenyl ...	8.249	204	148497	30.748	ug/ml	100
74)	4-Nitroaniline	8.258	138	85347	34.618	ug/ml	94
75)	4,6-Dinitro-o-cresol	8.295	198	56949	34.588	ug/ml	95
76)	NDPA/DPA	8.364	169	273950	32.356	ug/ml	99
79)	4-Bromophenyl phenyl e...	8.718	248	89173	30.259	ug/ml	98
80)	Hexachlorobenzene	8.771	284	100273	27.448	ug/ml	97
81)	Pentachlorophenol	8.966	266	56087	25.720	ug/ml	99
86)	Atrazine	8.901	200	90652	38.623	ug/ml	99
88)	Phenanthrene	9.159	178	477382	29.258	ug/ml	99
89)	Anthracene	9.206	178	492990	30.443	ug/ml	99
90)	Carbazole	9.374	167	473136	31.416	ug/ml	99
91)	Di-n-butylphthalate	9.759	149	623331	33.146	ug/ml	100
92)	Fluoranthene	10.315	202	548553	31.777	ug/ml	97
94)	Pyrene	10.539	202	567610	31.282	ug/ml	99
96)	Butyl benzyl phthalate	11.332	149	300375	36.739	ug/ml	97
104)	Benzo(a)anthracene	11.978	228	558792	30.510	ug/ml	99
105)	3,3'-Dichlorobenzidine	11.978	252	163451	22.740	ug/ml	98
106)	Chrysene	12.025	228	541946	30.856	ug/ml	100
107)	Bis(2-ethylhexyl)phtha...	12.143	149	437961	36.676	ug/ml	99
108)	Di-n-octylphthalate	13.125	149	773737	39.279	ug/ml	95
109)	Benzo(b)fluoranthene	13.542	252	579540	35.047	ug/ml	97
110)	Benzo(k)fluoranthene	13.582	252	556268	30.691	ug/ml	98
111)	Benzo(a)pyrene	14.026	252	567665	34.033	ug/ml	98
113)	Indeno(1,2,3-cd)pyrene	15.720	276	536748	32.695	ug/ml	97
114)	Dibenzo(a,h)anthracene	15.770	278	546236	31.629	ug/ml	98
115)	Benzo(ghi)perylene	16.093	276	558167	30.387	ug/ml	96

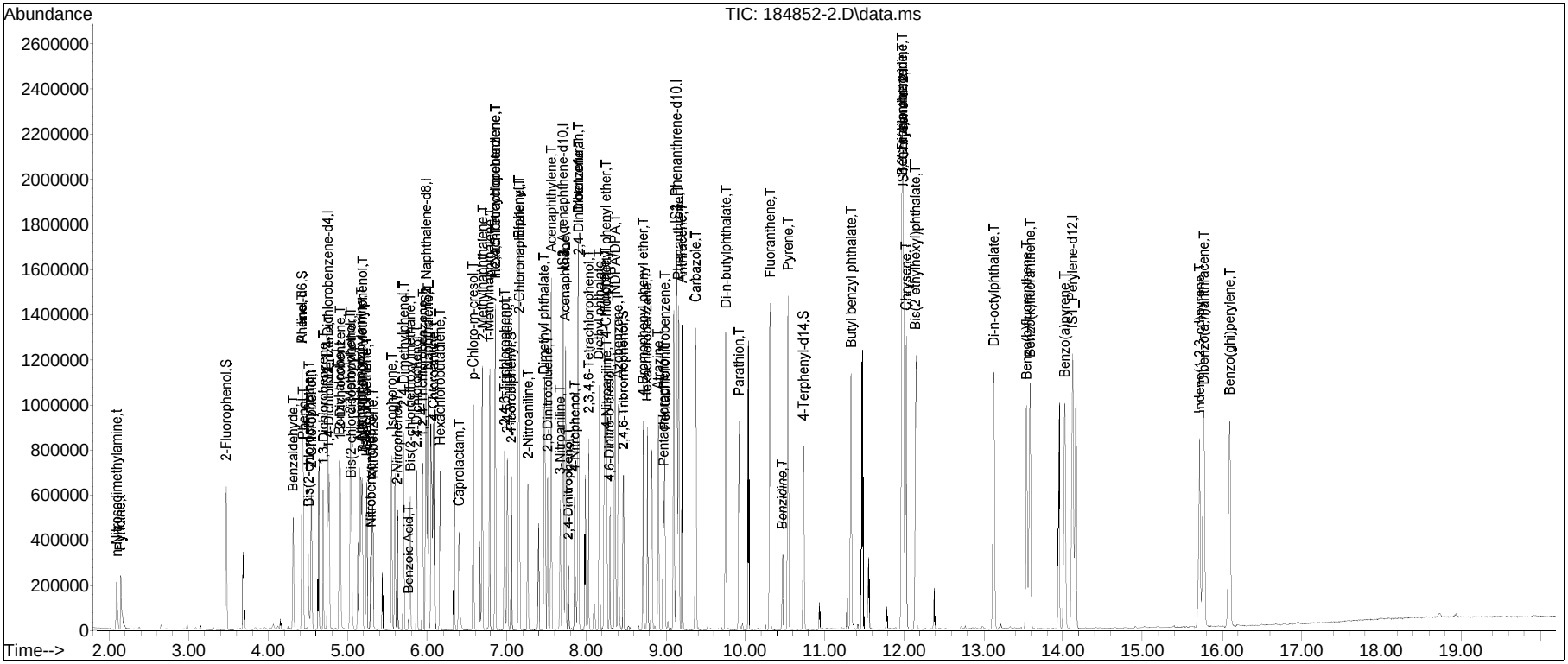
(#) = qualifier out of range (m) = manual integration (+) = signals summed

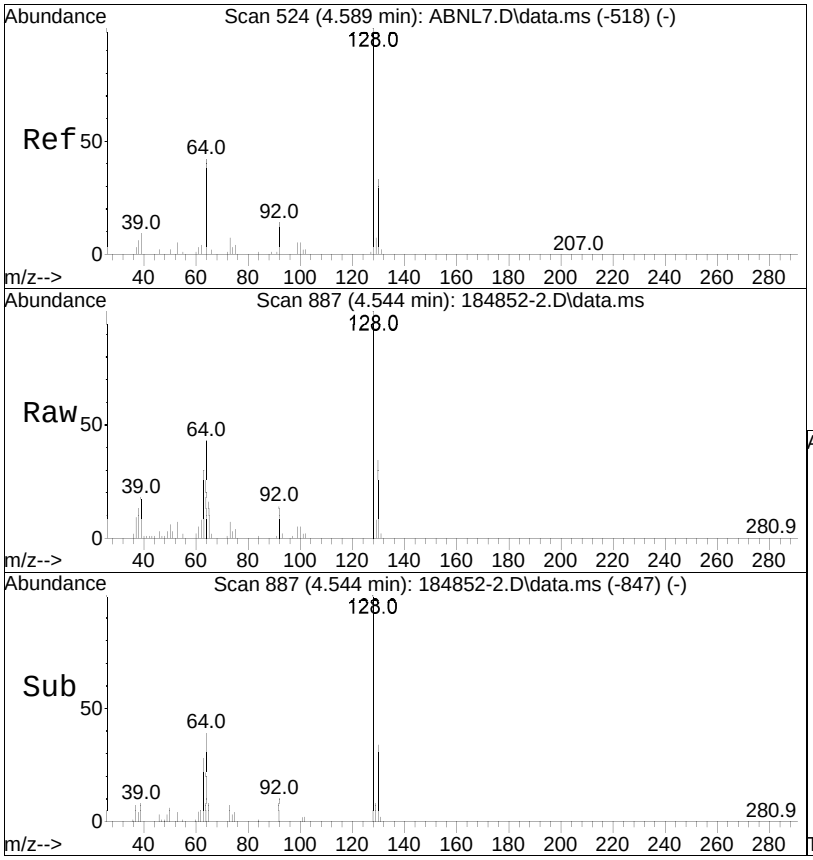
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181205\
Data File : 184852-2.D
Acq On : 5 Dec 2018 5:24 pm
Operator : sv109:jg
Sample : wg1184852-2,32,,ny,eh
Misc : wg1185944,wg1184852,ical15112
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 06 14:43:04 2018
Quant Method : I:\8270\SV109\181205\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 20:09:16 2018
Response via : Initial Calibration

Sub List : 8270TCL_REV1 - TCL/CT/MA\AP91205.D••

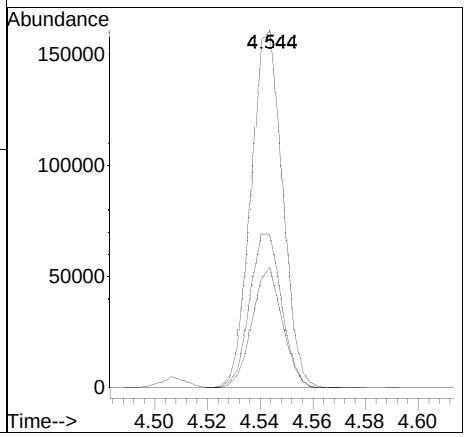


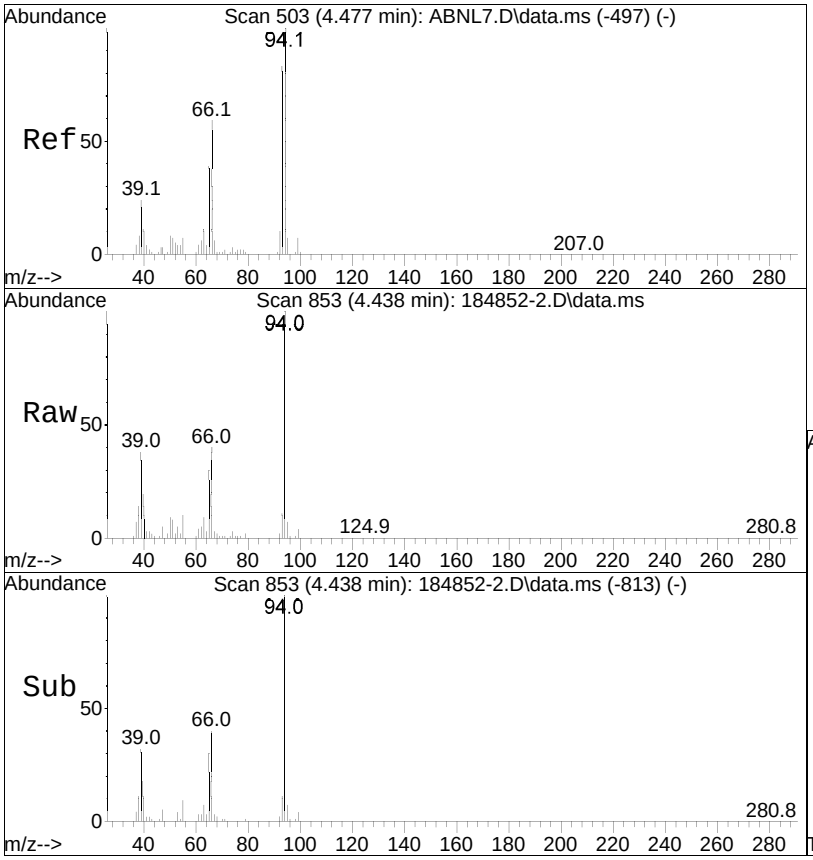


#6
2-Chlorophenol
Concen: 30.75 ug/ml
RT: 4.544 min Scan# 887
Delta R.T. -0.000 min
Lab File: 184852-2.D
Acq: 5 Dec 2018 5:24 pm

Tgt Ion:128 Resp: 133426

Ion	Ratio	Lower	Upper
128	100		
64	43.7	38.1	57.1
130	32.4	25.7	38.5

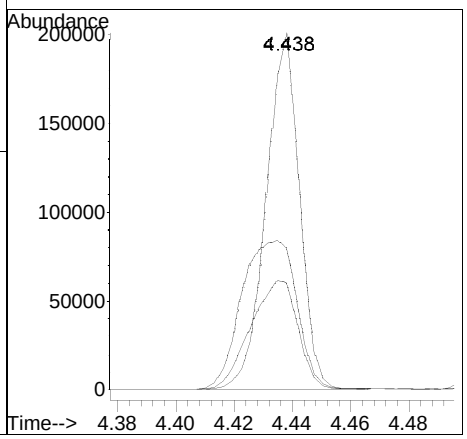


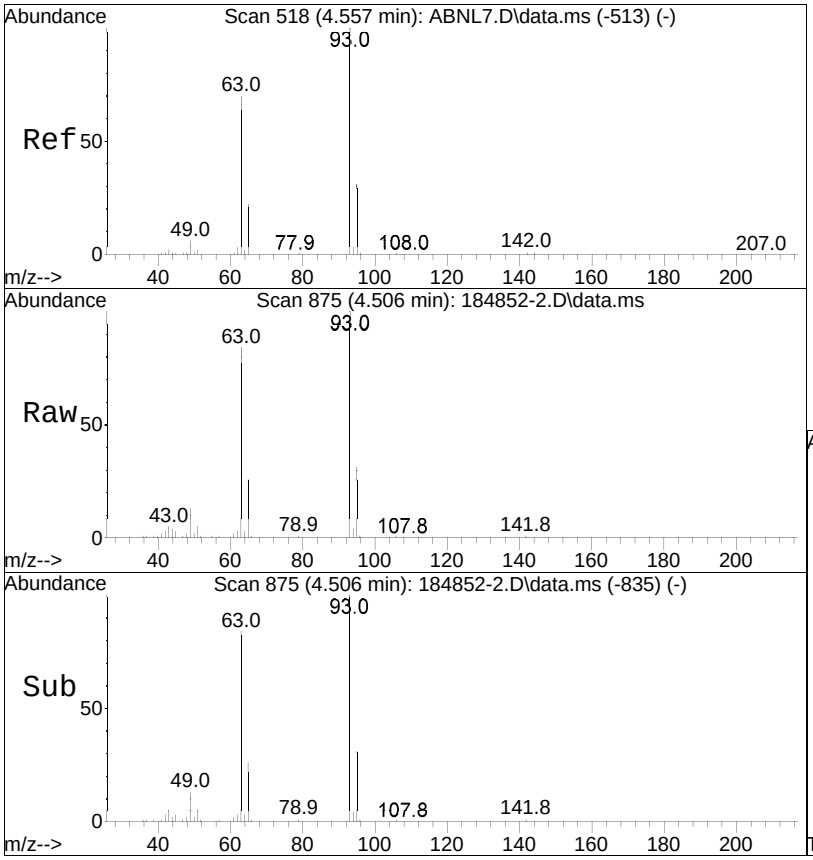


#8
Phenol
Concen: 31.58 ug/ml
RT: 4.438 min Scan# 853
Delta R.T. -0.000 min
Lab File: 184852-2.D
Acq: 5 Dec 2018 5:24 pm

Tgt Ion: 94 Resp: 158917

Ion	Ratio	Lower	Upper
94	100		
65	43.6	40.7	61.1
66	69.2	64.1	96.1

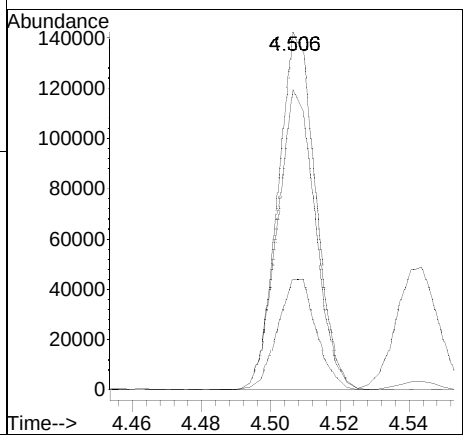


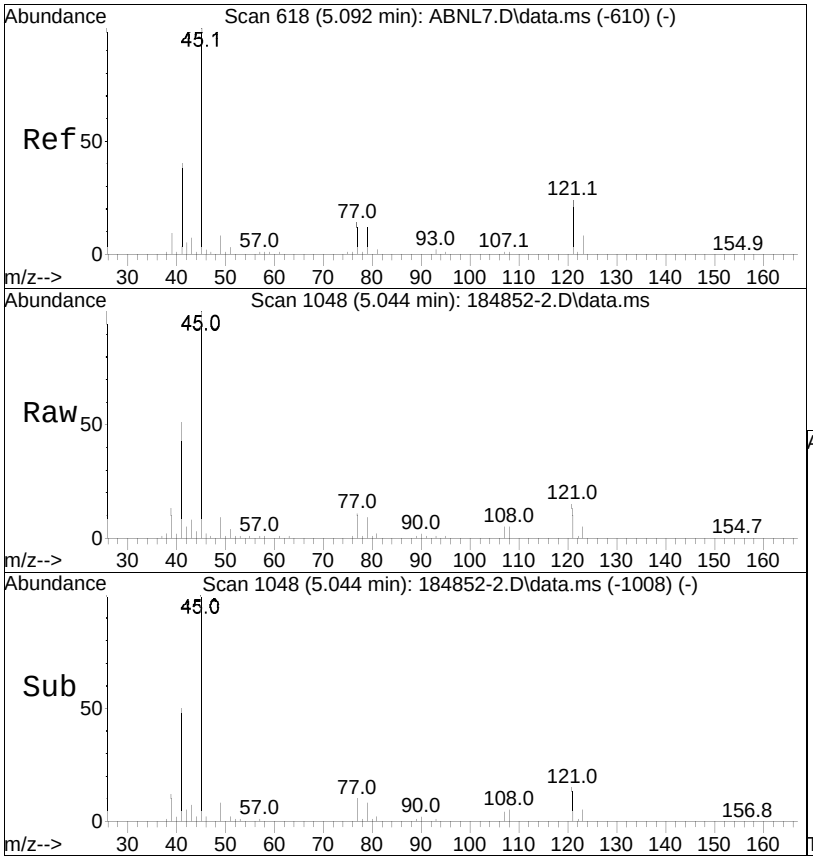


#9
Bis(2-chloroethyl)ether
Concen: 26.43 ug/ml
RT: 4.506 min Scan# 875
Delta R.T. -0.000 min
Lab File: 184852-2.D
Acq: 5 Dec 2018 5:24 pm

Tgt Ion: 93 Resp: 107369

Ion	Ratio	Lower	Upper
93	100		
63	84.7	73.7	110.5
95	32.4	26.9	40.3

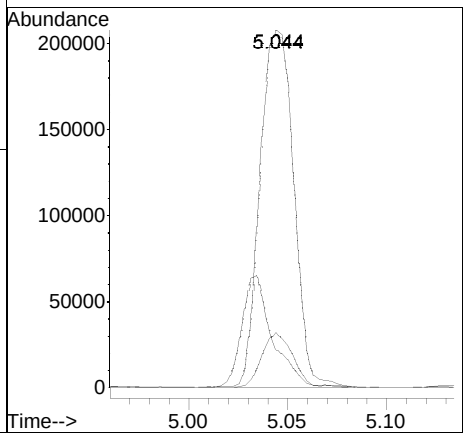


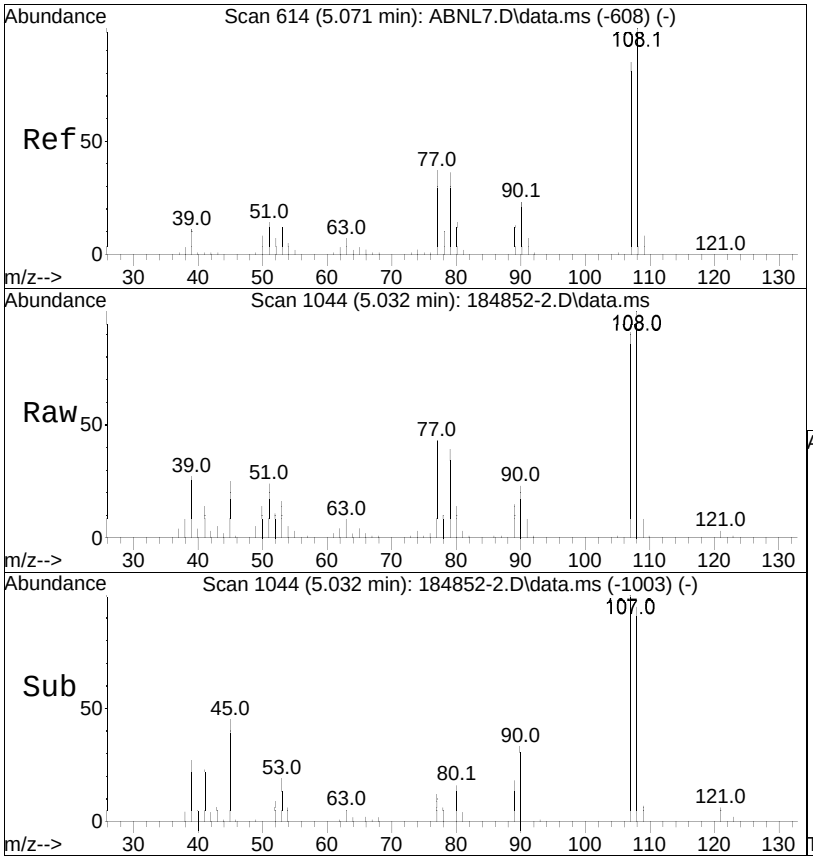


#14
Bis(2-chloroisopropyl)ether
Concen: 35.60 ug/ml
RT: 5.044 min Scan# 1048
Delta R.T. -0.000 min
Lab File: 184852-2.D
Acq: 5 Dec 2018 5:24 pm

Tgt Ion: 45 Resp: 243294

Ion	Ratio	Lower	Upper
45	100		
121	14.3	12.6	19.0
77	29.0	24.6	37.0

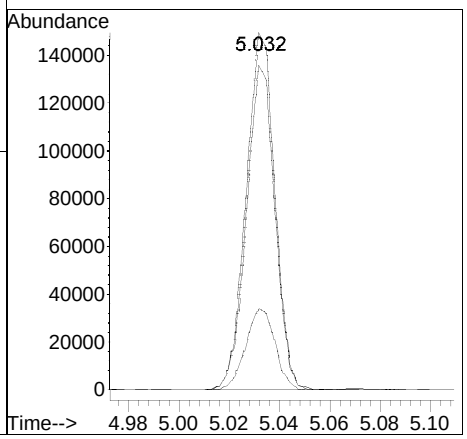


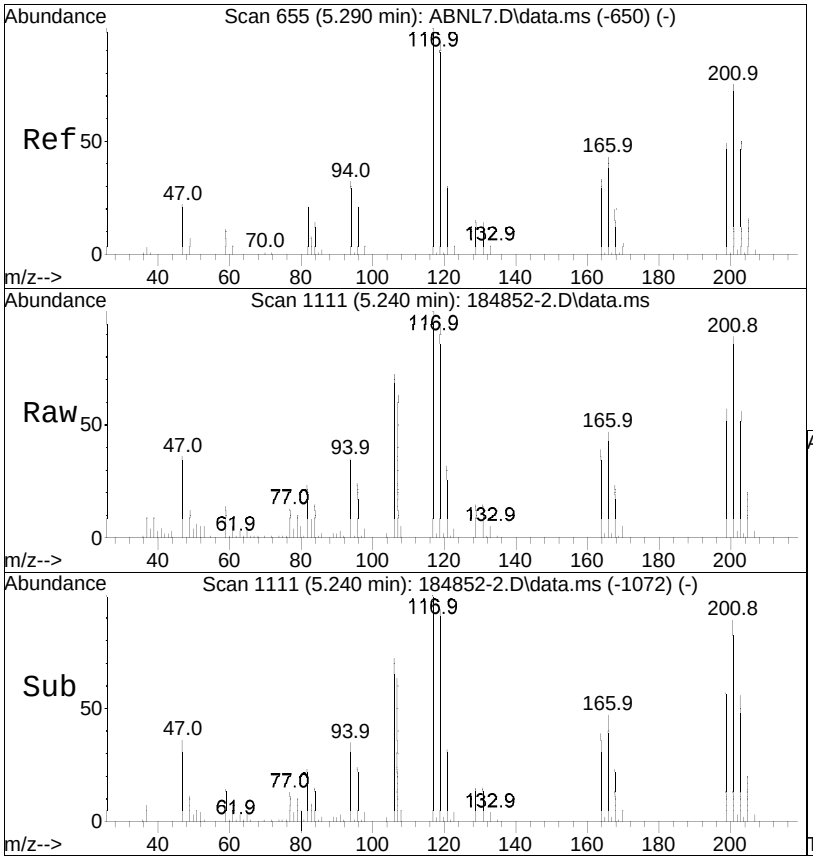


#15
2-Methylphenol
Concen: 31.06 ug/ml
RT: 5.032 min Scan# 1044
Delta R.T. 0.003 min
Lab File: 184852-2.D
Acq: 5 Dec 2018 5:24 pm

Tgt Ion:108 Resp: 117930

Ion	Ratio	Lower	Upper
108	100		
107	89.9	72.6	108.8
90	23.2	19.2	28.8

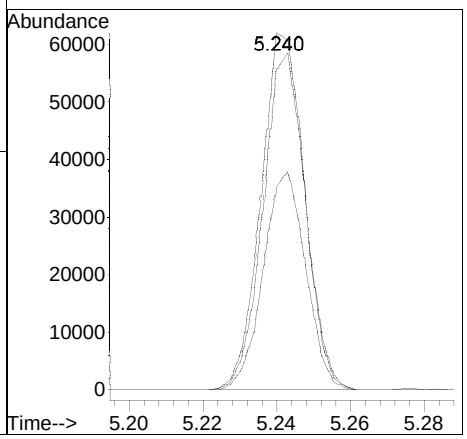


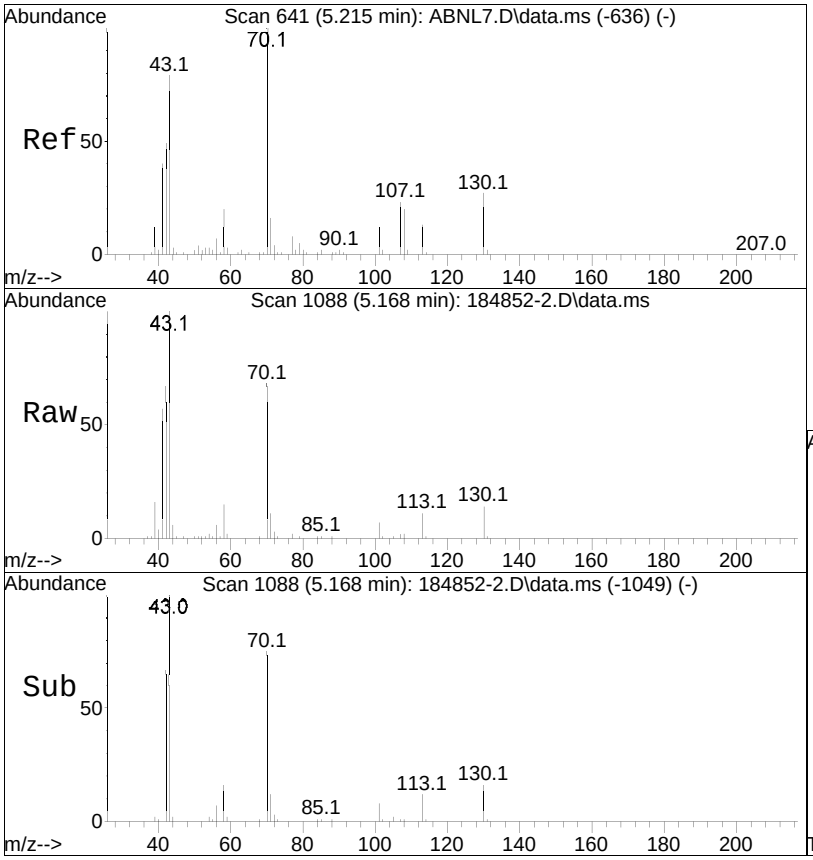


#16
Hexachloroethane
Concen: 25.17 ug/ml
RT: 5.240 min Scan# 1111
Delta R.T. -0.003 min
Lab File: 184852-2.D
Acq: 5 Dec 2018 5:24 pm

Tgt Ion:117 Resp: 50590

Ion	Ratio	Lower	Upper
117	100		
201	92.4	72.7	109.1
199	59.8	46.2	69.2

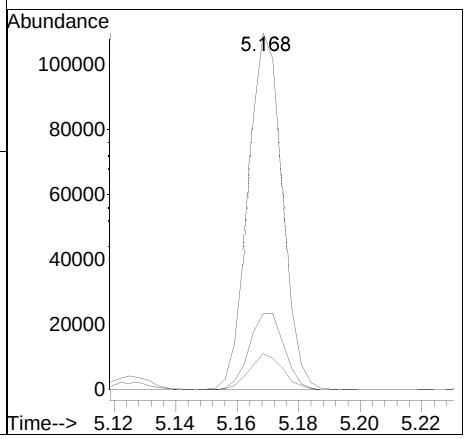


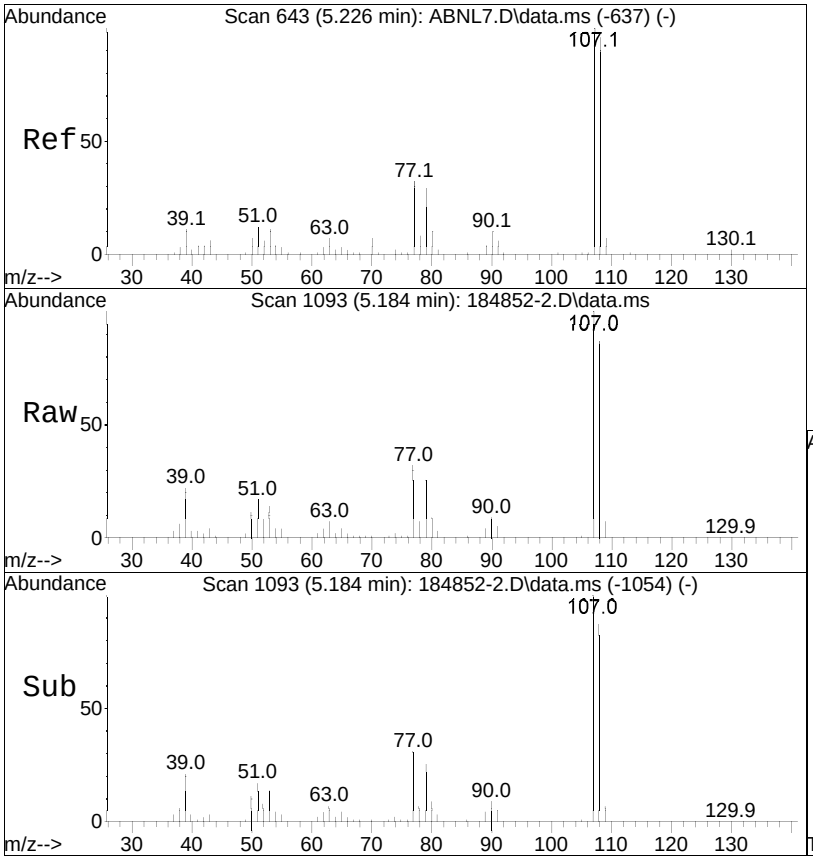


#17
n-Nitrosodi-n-propylamine
Concen: 28.76 ug/ml
RT: 5.168 min Scan# 1088
Delta R.T. -0.003 min
Lab File: 184852-2.D
Acq: 5 Dec 2018 5:24 pm

Tgt Ion: 70 Resp: 84877

Ion	Ratio	Lower	Upper
70	100		
130	21.7	16.6	24.8
101	9.9	7.4	11.0

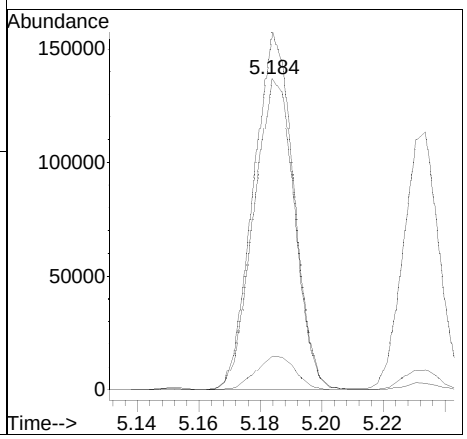


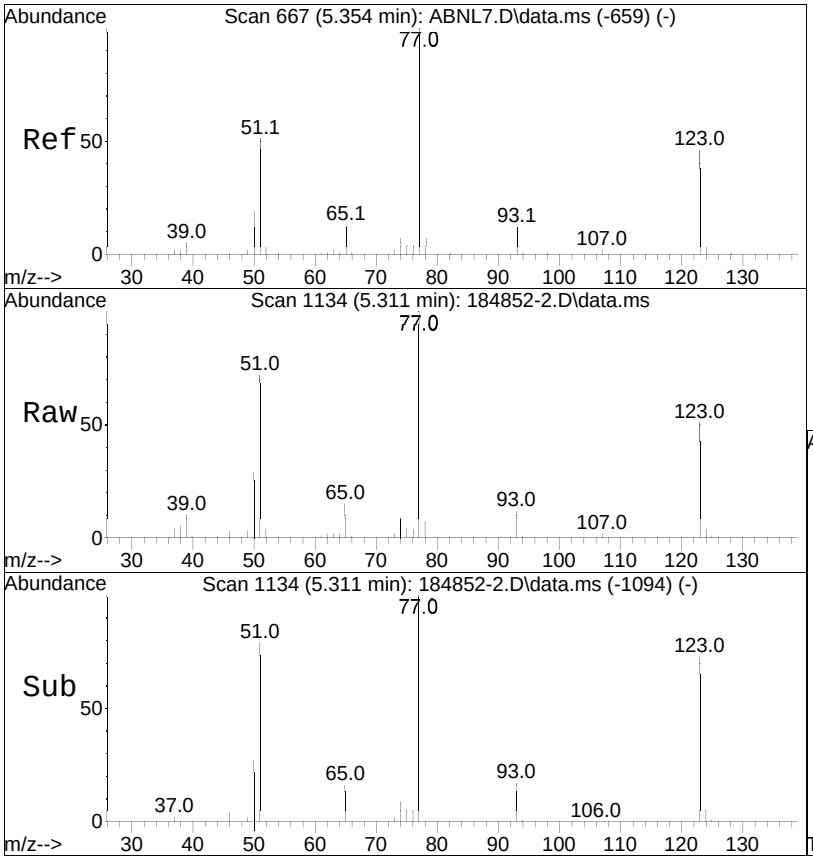


#18
3-Methylphenol/4-Methylphenol
Concen: 32.02 ug/ml
RT: 5.184 min Scan# 1093
Delta R.T. -0.003 min
Lab File: 184852-2.D
Acq: 5 Dec 2018 5:24 pm

Tgt Ion:108 Resp: 126667

Ion	Ratio	Lower	Upper
108	100		
107	112.6	91.0	136.6
90	10.6	8.7	13.1

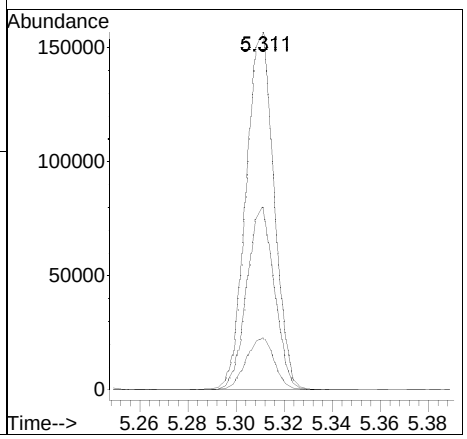


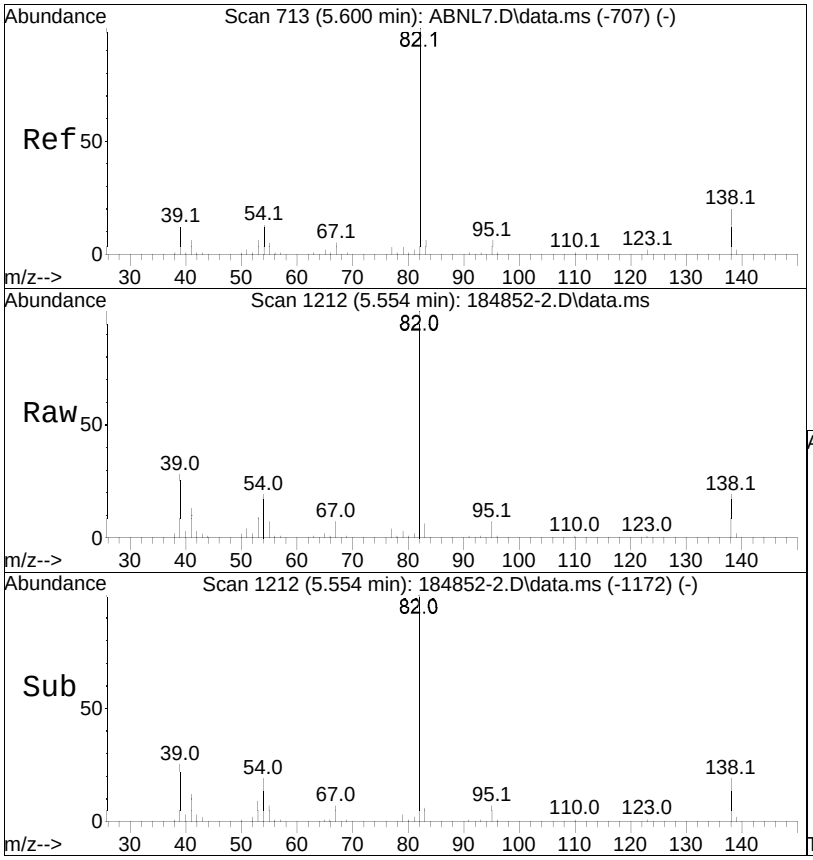


#20
Nitrobenzene
Concen: 28.10 ug/ml
RT: 5.311 min Scan# 1134
Delta R.T. -0.000 min
Lab File: 184852-2.D
Acq: 5 Dec 2018 5:24 pm

Tgt Ion: 77 Resp: 126124

Ion	Ratio	Lower	Upper
77	100		
123	50.5	38.5	57.7
65	15.0	11.4	17.0

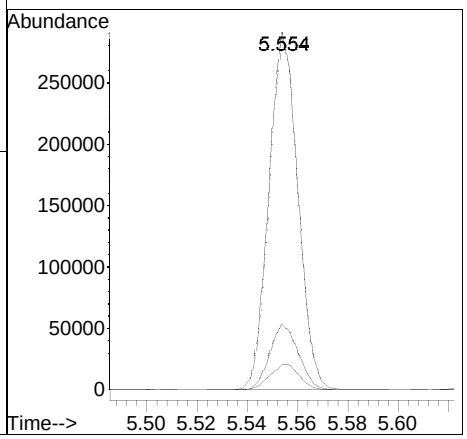


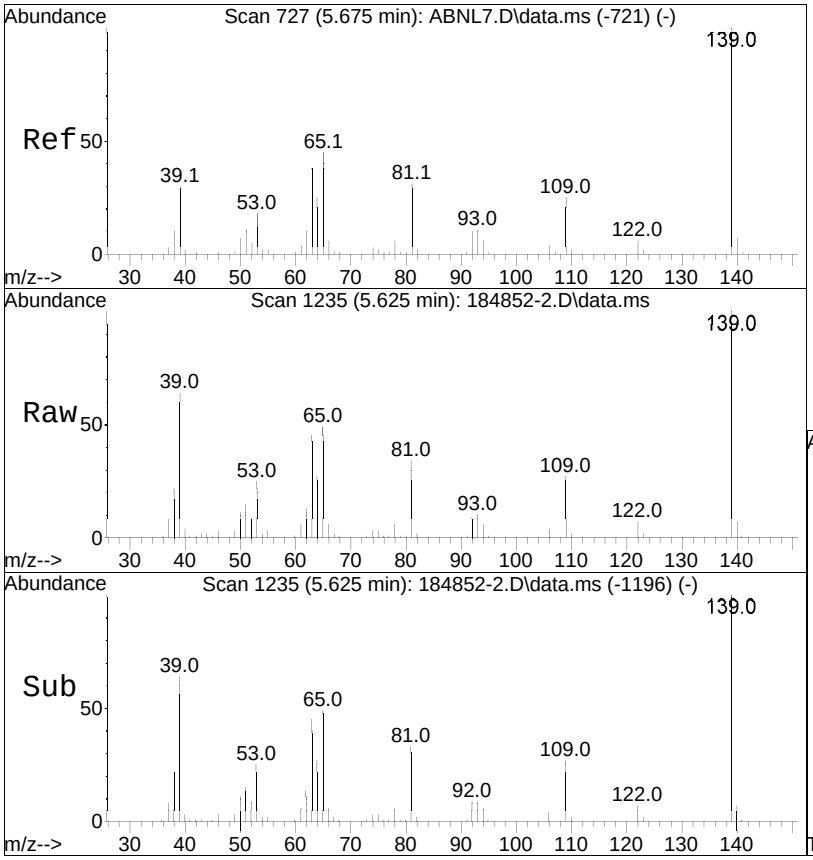


#21
Isophorone
Concen: 28.53 ug/ml
RT: 5.554 min Scan# 1212
Delta R.T. -0.000 min
Lab File: 184852-2.D
Acq: 5 Dec 2018 5:24 pm

Tgt Ion: 82 Resp: 229047

Ion	Ratio	Lower	Upper
82	100		
138	18.4	13.6	20.4
95	7.6	5.1	7.7

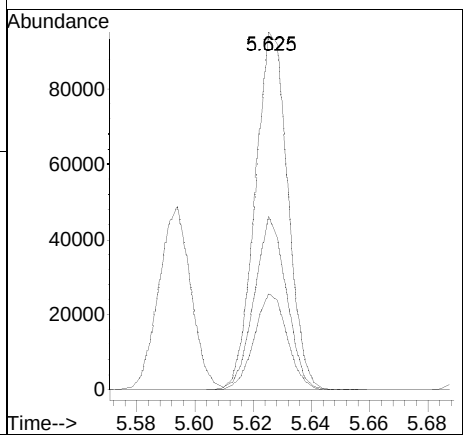


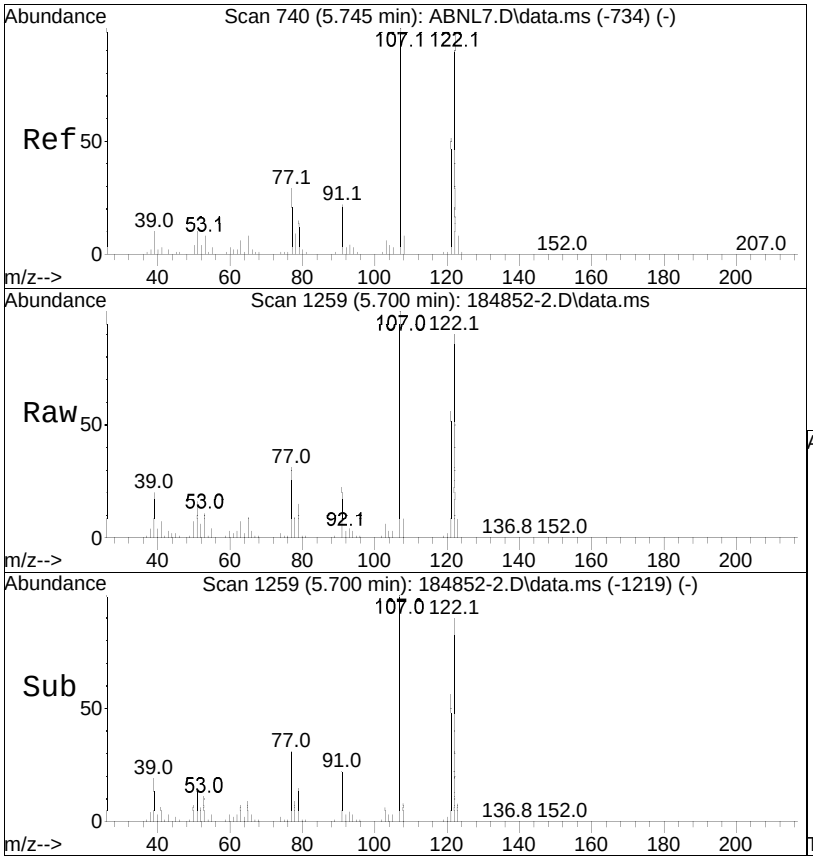


#22
2-Nitrophenol
Concen: 35.05 ug/ml
RT: 5.625 min Scan# 1235
Delta R.T. -0.003 min
Lab File: 184852-2.D
Acq: 5 Dec 2018 5:24 pm

Tgt Ion:139 Resp: 74047

Ion	Ratio	Lower	Upper
139	100		
109	27.1	19.8	29.6
65	47.6	39.6	59.4

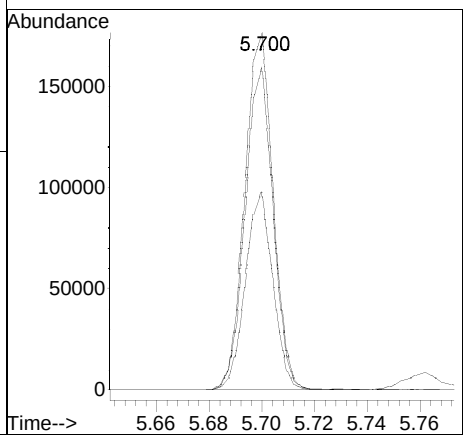


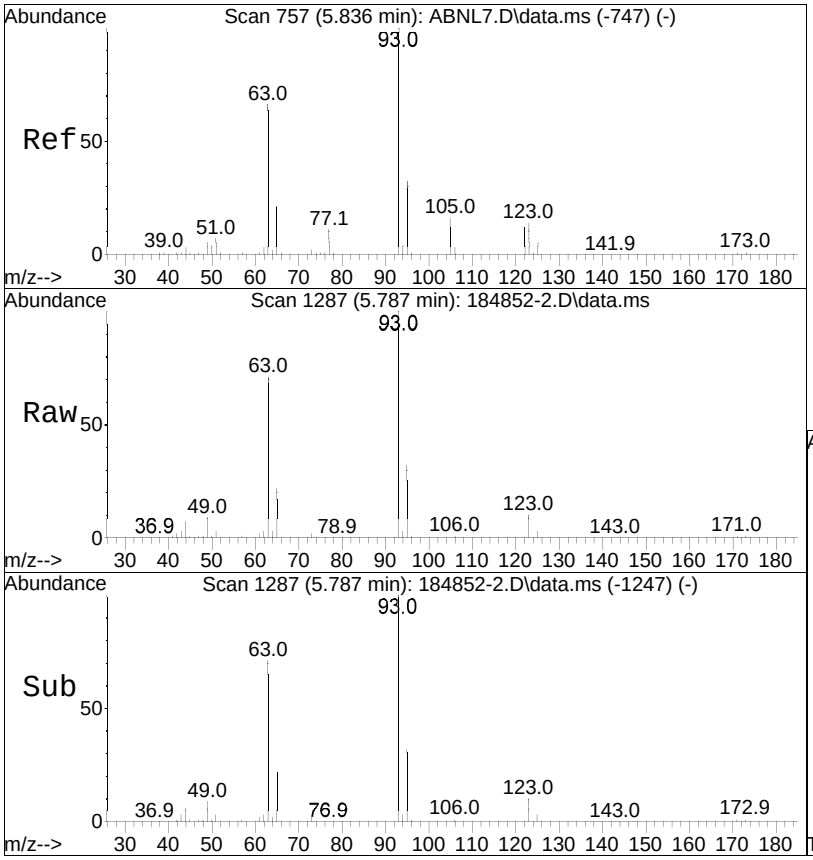


#23
2,4-Dimethylphenol
Concen: 34.33 ug/ml
RT: 5.700 min Scan# 1259
Delta R.T. -0.000 min
Lab File: 184852-2.D
Acq: 5 Dec 2018 5:24 pm

Tgt Ion:107 Resp: 131801

Ion	Ratio	Lower	Upper
107	100		
121	53.7	43.0	64.4
122	89.0	71.8	107.8

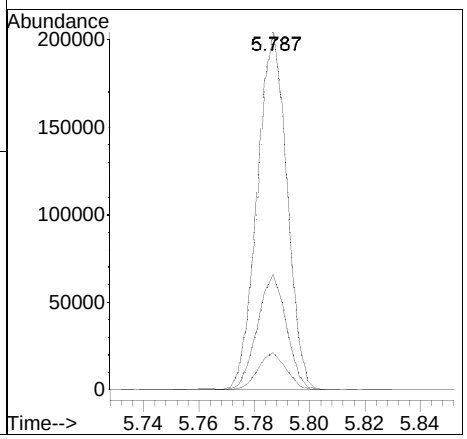


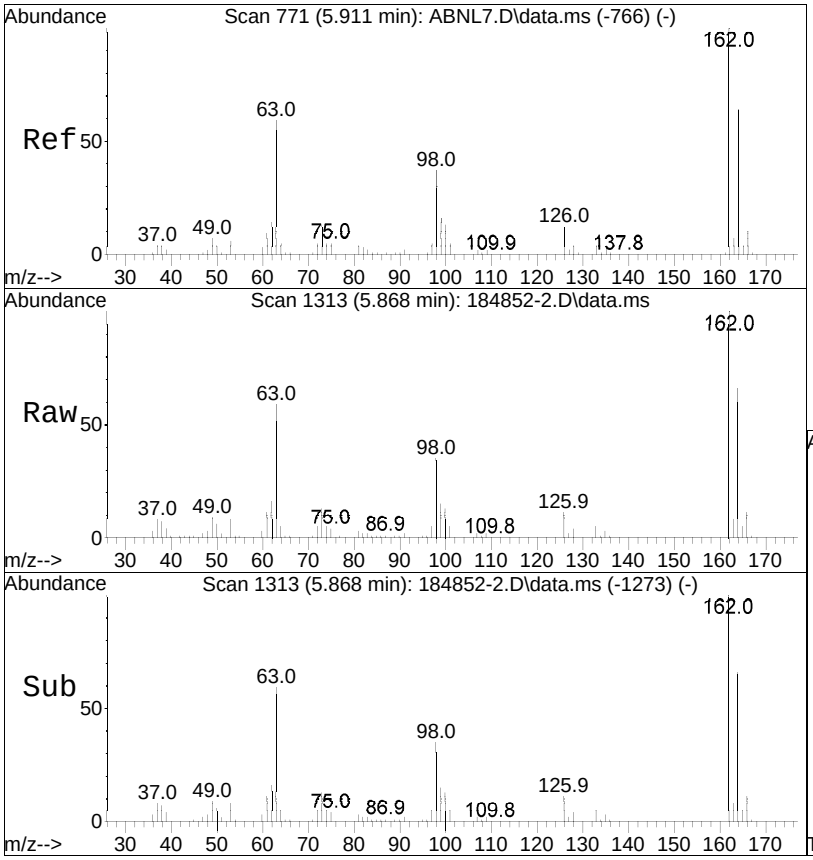


#24
Bis(2-chloroethoxy)methane
Concen: 28.99 ug/ml
RT: 5.787 min Scan# 1287
Delta R.T. -0.000 min
Lab File: 184852-2.D
Acq: 5 Dec 2018 5:24 pm

Tgt Ion: 93 Resp: 150467

Ion	Ratio	Lower	Upper
93	100		
95	31.8	26.6	40.0
123	10.1	11.0	16.4#

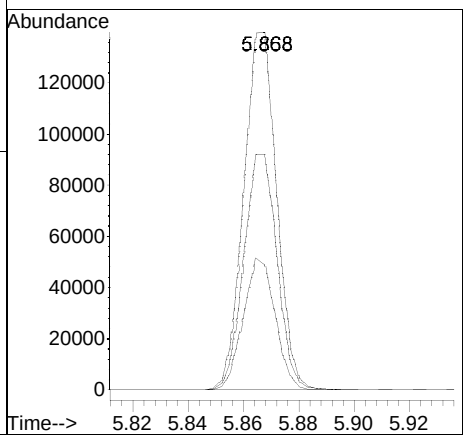


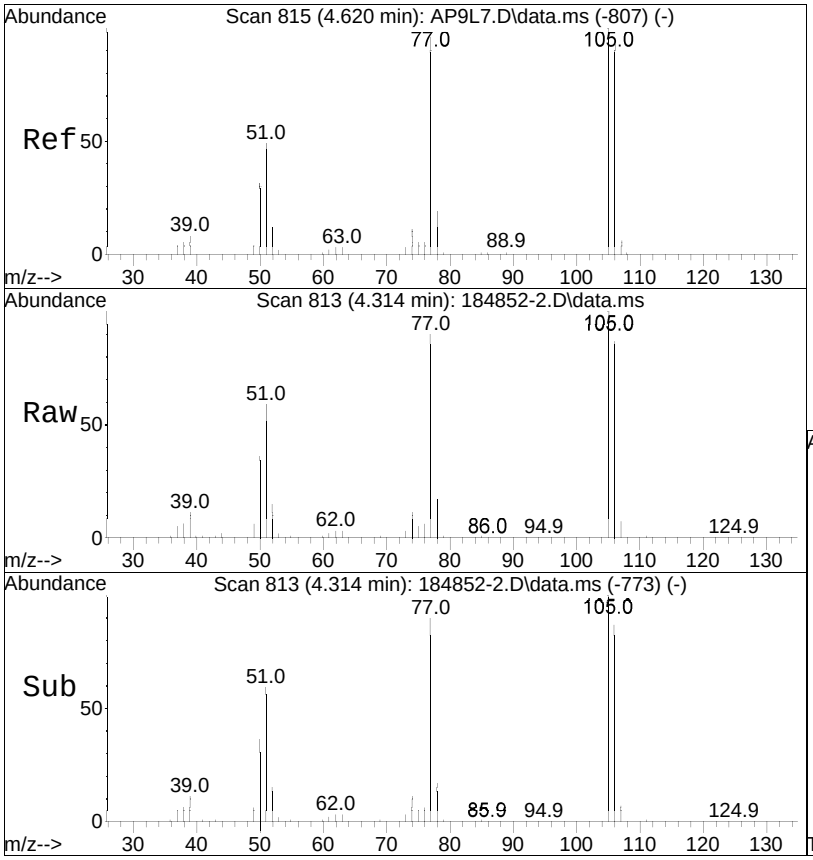


#25
2,4-Dichlorophenol
Concen: 31.95 ug/ml
RT: 5.868 min Scan# 1313
Delta R.T. -0.000 min
Lab File: 184852-2.D
Acq: 5 Dec 2018 5:24 pm

Tgt Ion:162 Resp: 114441

Ion	Ratio	Lower	Upper
162	100		
164	66.6	51.6	77.4
98	35.9	29.4	44.2

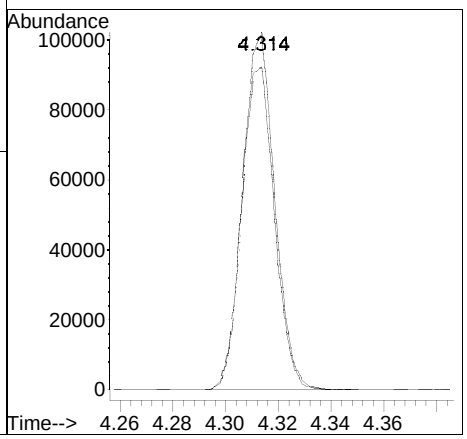


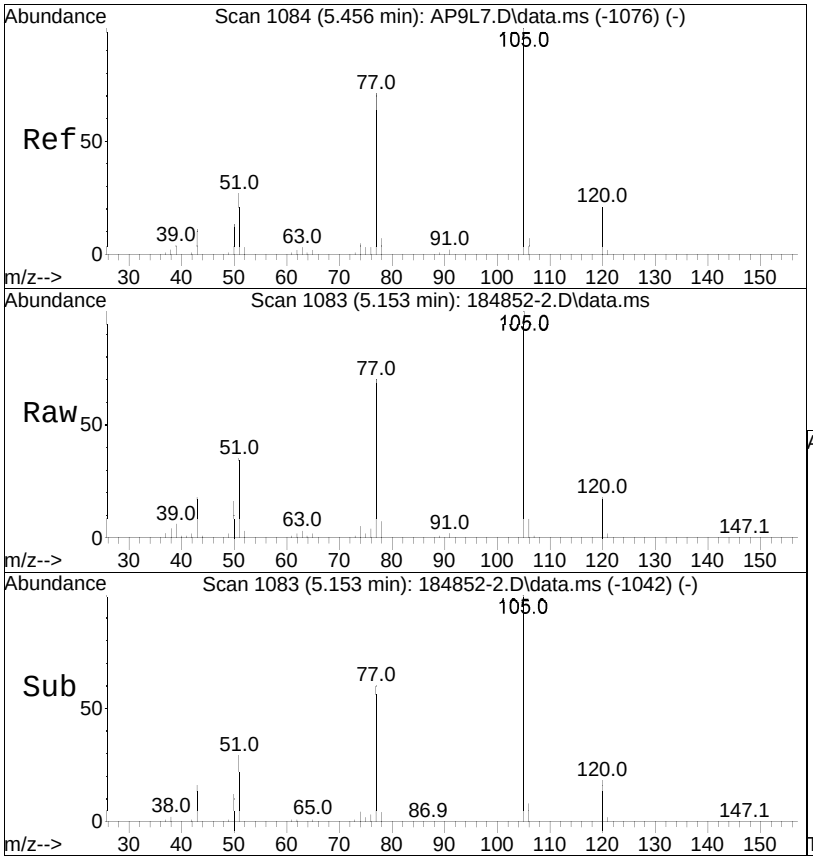


#28
Benzaldehyde
Concen: 25.24 ug/ml
RT: 4.314 min Scan# 813
Delta R.T. 0.000 min
Lab File: 184852-2.D
Acq: 5 Dec 2018 5:24 pm

Tgt Ion:105 Resp: 85366

Ion	Ratio	Lower	Upper
105	100		
77	92.7	76.9	115.3

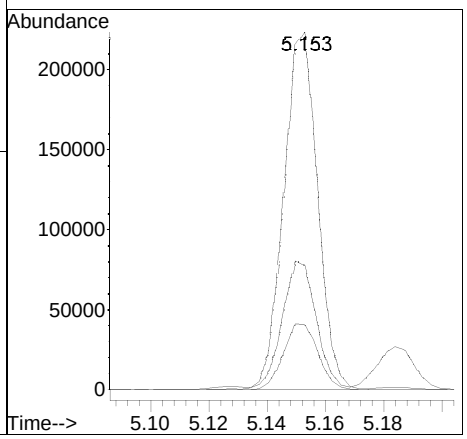


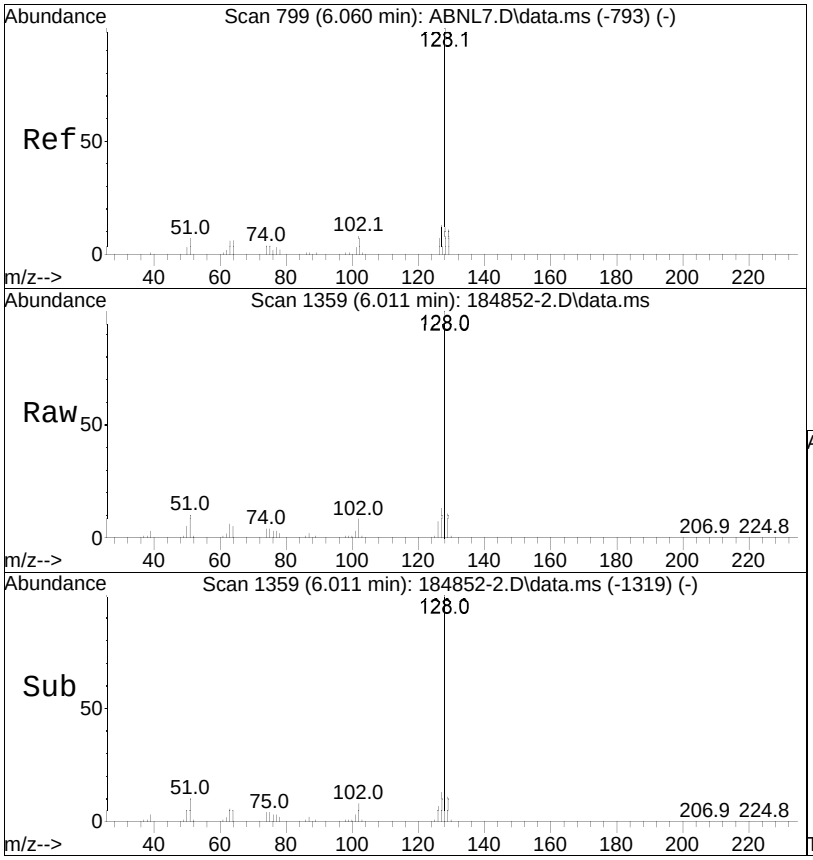


#29
Acetophenone
Concen: 30.95 ug/ml
RT: 5.153 min Scan# 1083
Delta R.T. 0.003 min
Lab File: 184852-2.D
Acq: 5 Dec 2018 5:24 pm

Tgt Ion:105 Resp: 179039

Ion	Ratio	Lower	Upper
105	100		
120	19.0	15.9	23.9
51	36.4	25.2	37.8

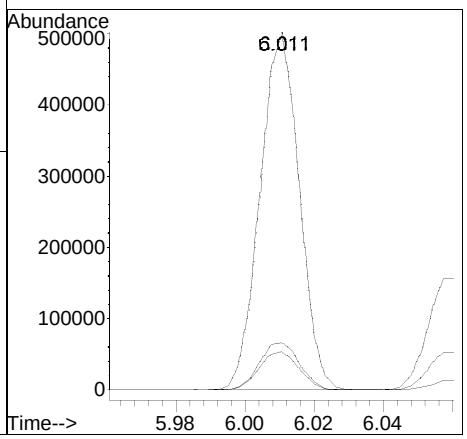


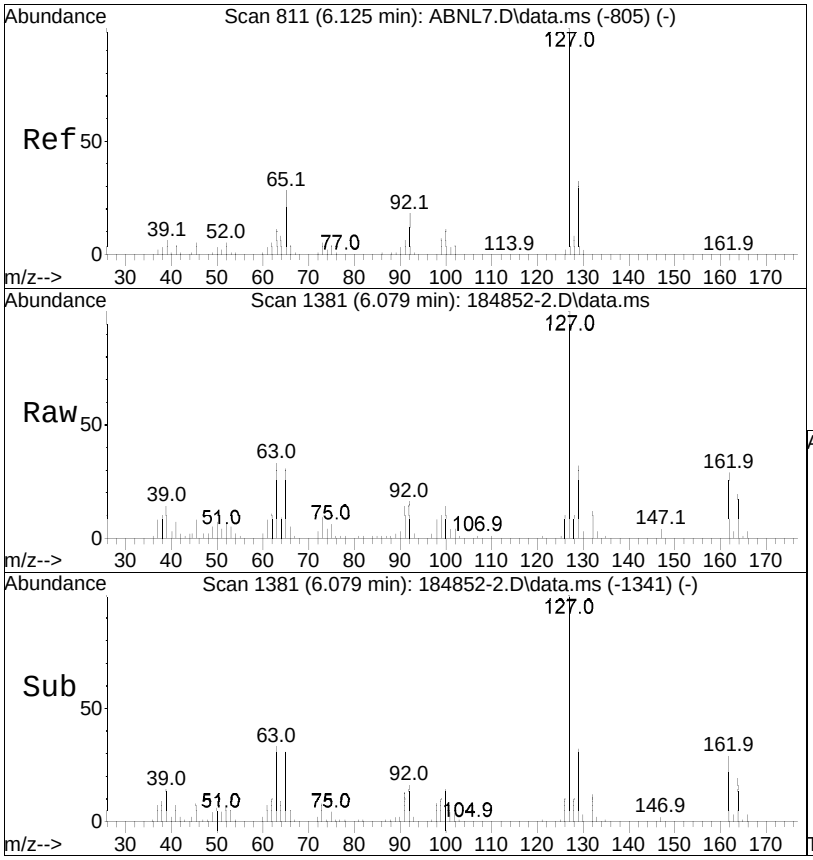


#35
Naphthalene
Concen: 28.57 ug/ml
RT: 6.011 min Scan# 1359
Delta R.T. -0.000 min
Lab File: 184852-2.D
Acq: 5 Dec 2018 5:24 pm

Tgt Ion:128 Resp: 391459

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.9	13.3
127	13.7	10.9	16.3

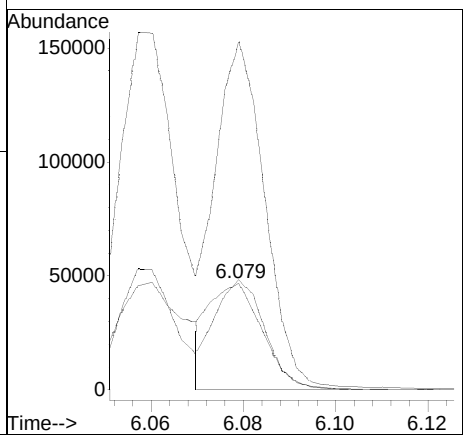


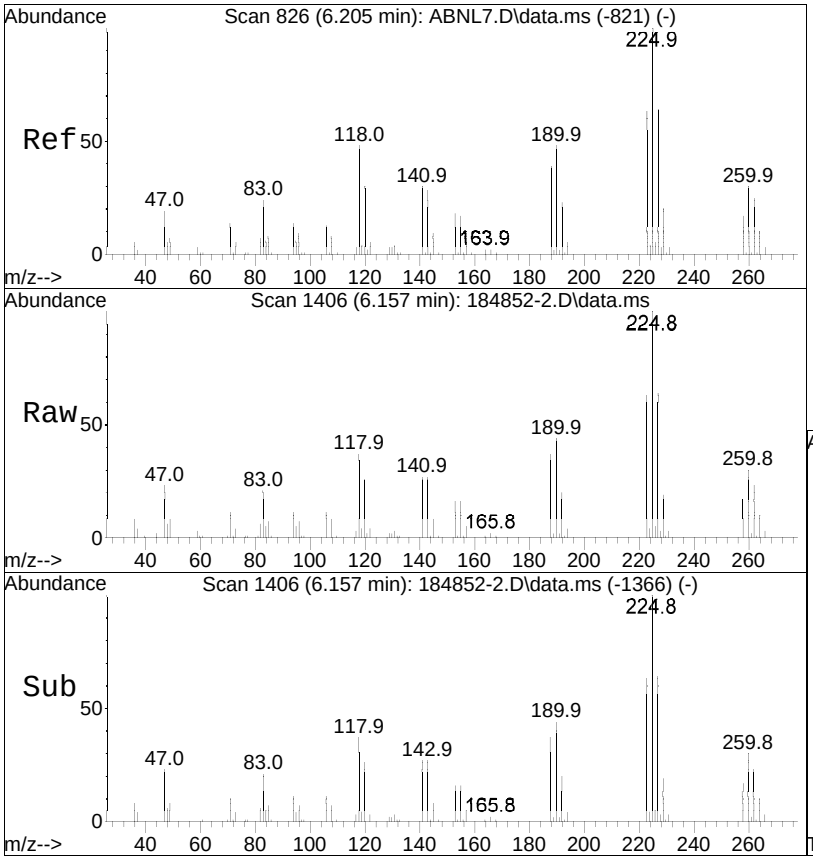


#37
4-Chloroaniline
Concen: 21.26 ug/ml
RT: 6.079 min Scan# 1381
Delta R.T. -0.000 min
Lab File: 184852-2.D
Acq: 5 Dec 2018 5:24 pm

Tgt Ion: 65 Resp: 36577

Ion	Ratio	Lower	Upper
65	100		
127	310.0	274.4	411.6
129	100.5	88.2	132.4

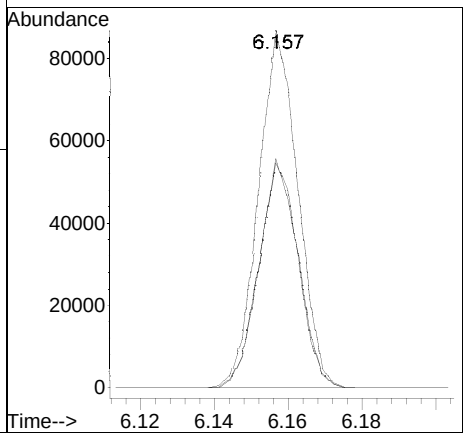


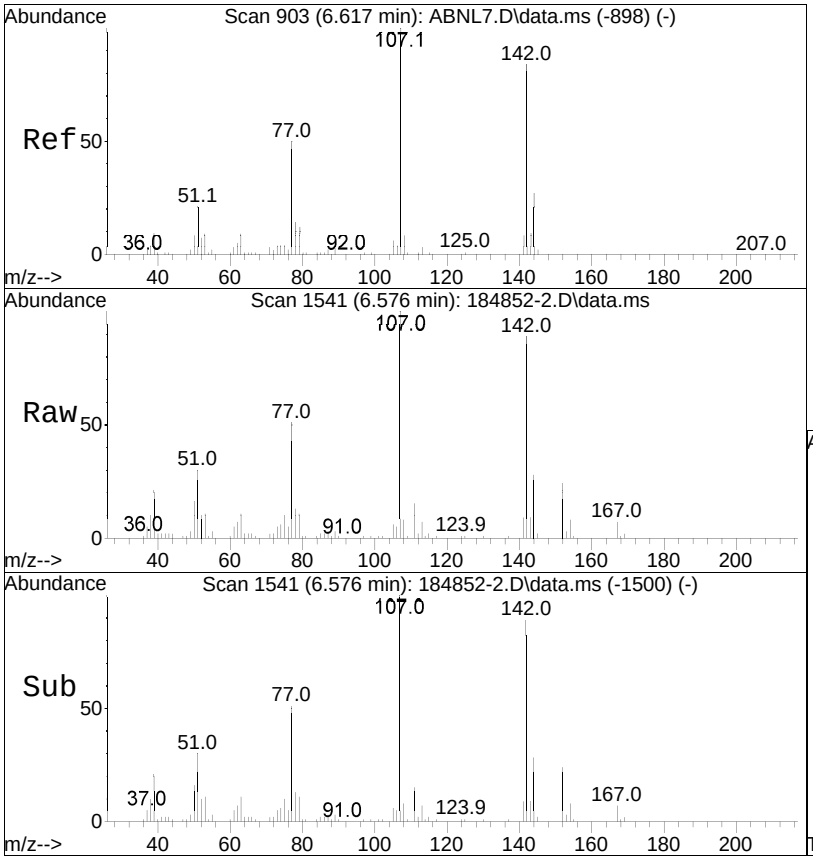


#38
Hexachlorobutadiene
Concen: 25.02 ug/ml
RT: 6.157 min Scan# 1406
Delta R.T. -0.000 min
Lab File: 184852-2.D
Acq: 5 Dec 2018 5:24 pm

Tgt Ion:225 Resp: 63841

Ion	Ratio	Lower	Upper
225	100		
223	63.3	49.3	73.9
227	63.8	51.1	76.7

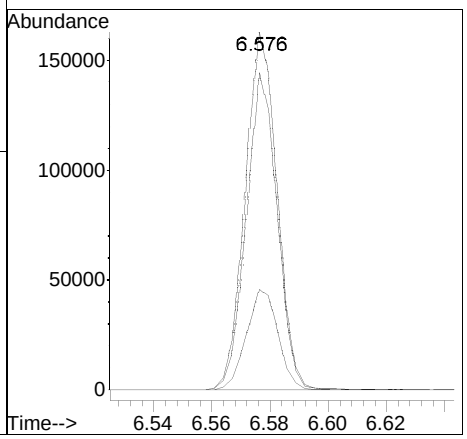


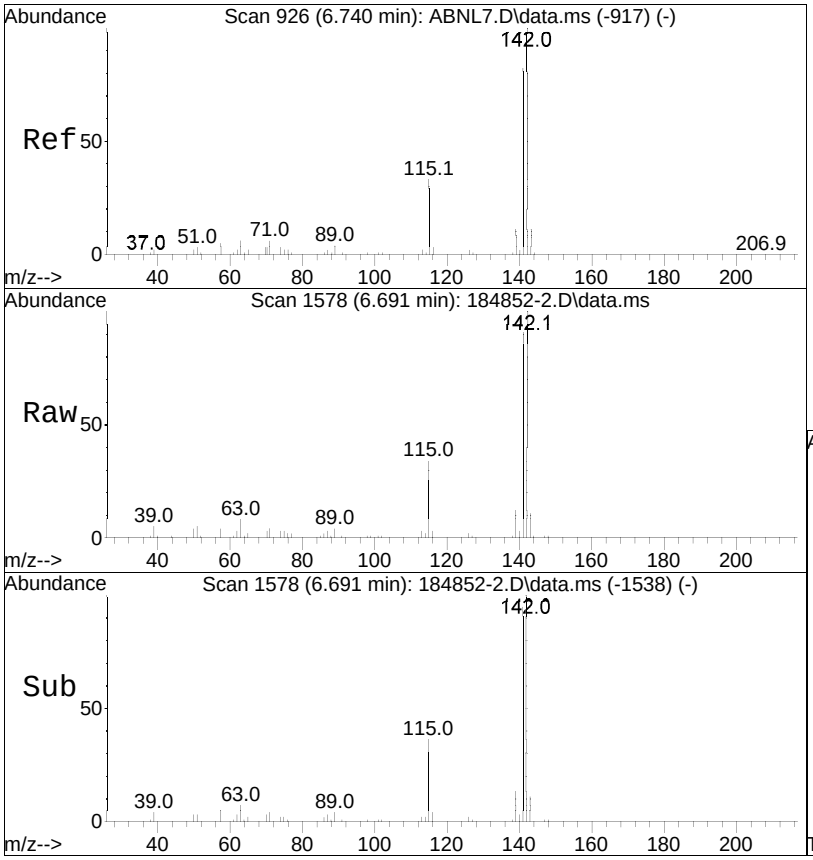


#39
p-Chloro-m-cresol
Concen: 33.46 ug/ml
RT: 6.576 min Scan# 1541
Delta R.T. 0.003 min
Lab File: 184852-2.D
Acq: 5 Dec 2018 5:24 pm

Tgt Ion:107 Resp: 122992

Ion	Ratio	Lower	Upper
107	100		
144	27.8	21.5	32.3
142	85.8	66.8	100.2

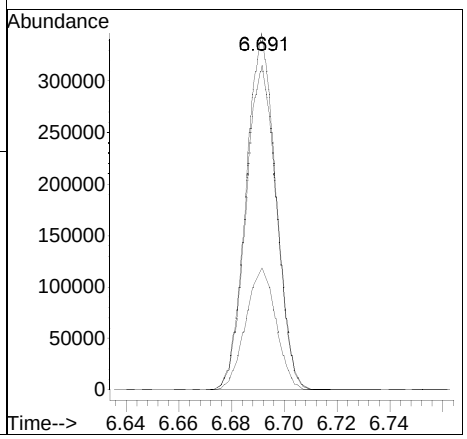


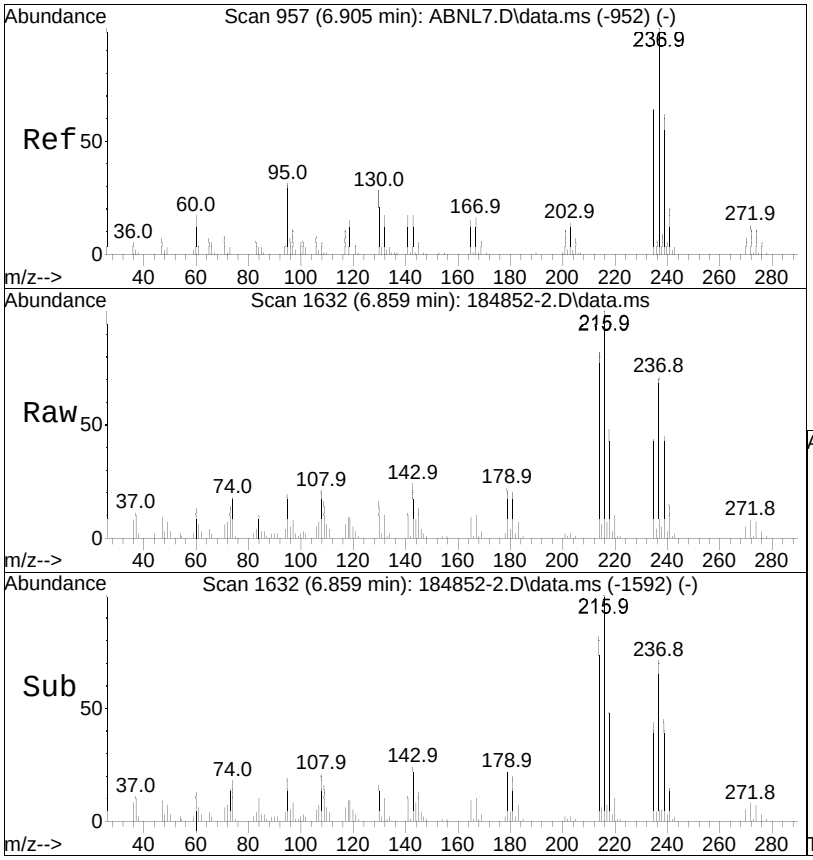


#40
2-Methylnaphthalene
Concen: 29.98 ug/ml
RT: 6.691 min Scan# 1578
Delta R.T. -0.000 min
Lab File: 184852-2.D
Acq: 5 Dec 2018 5:24 pm

Tgt Ion:142 Resp: 273278

Ion	Ratio	Lower	Upper
142	100		
141	92.9	73.0	109.6
115	34.8	25.4	38.2

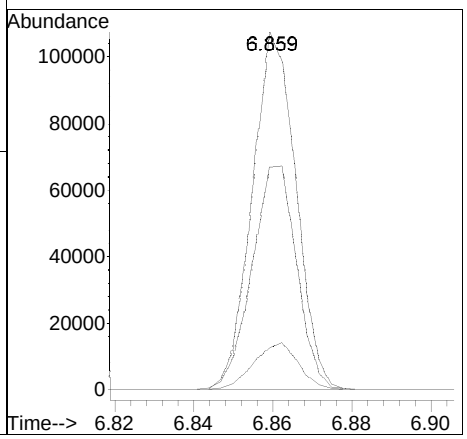


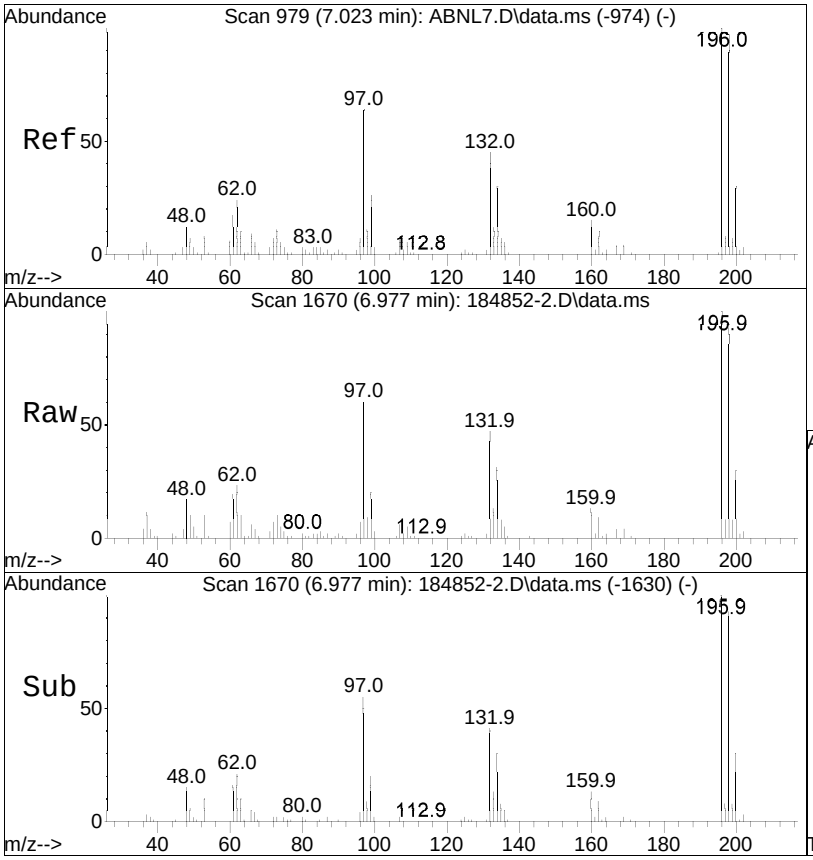


#42
Hexachlorocyclopentadiene
Concen: 27.14 ug/ml
RT: 6.859 min Scan# 1632
Delta R.T. -0.000 min
Lab File: 184852-2.D
Acq: 5 Dec 2018 5:24 pm

Tgt Ion:237 Resp: 82100

Ion	Ratio	Lower	Upper
237	100		
235	64.1	49.5	74.3
272	13.4	10.2	15.4

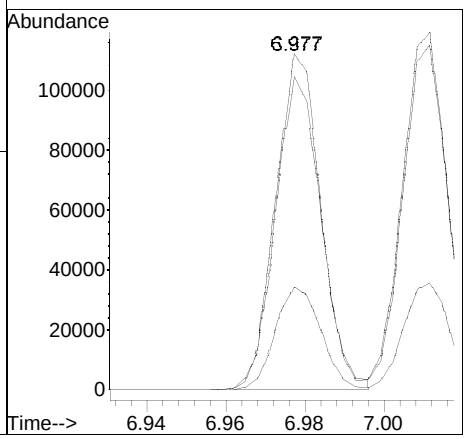


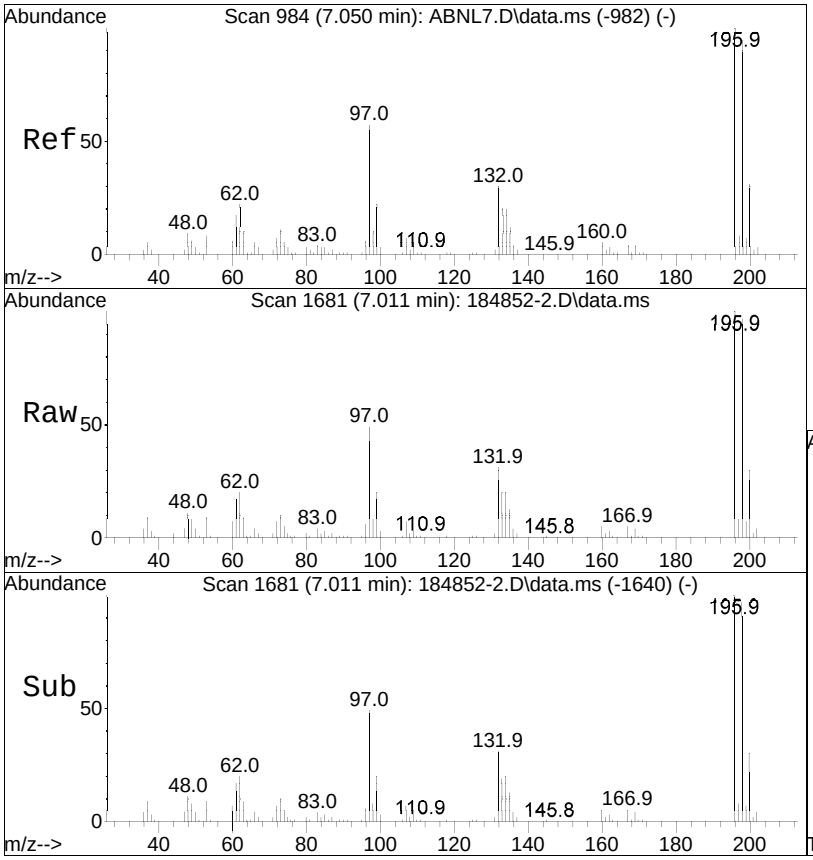


#43
2,4,6-Trichlorophenol
Concen: 33.74 ug/ml
RT: 6.977 min Scan# 1670
Delta R.T. -0.000 min
Lab File: 184852-2.D
Acq: 5 Dec 2018 5:24 pm

Tgt Ion:196 Resp: 89435

Ion	Ratio	Lower	Upper
196	100		
198	92.9	76.4	114.6
200	30.9	24.4	36.6

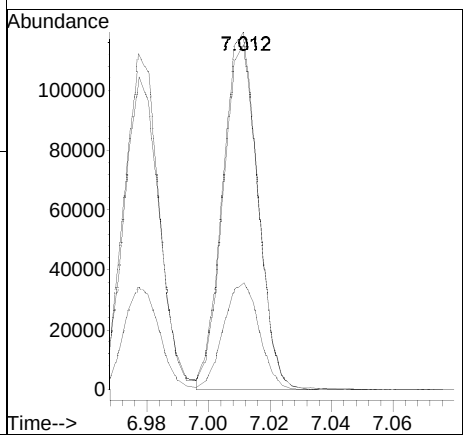


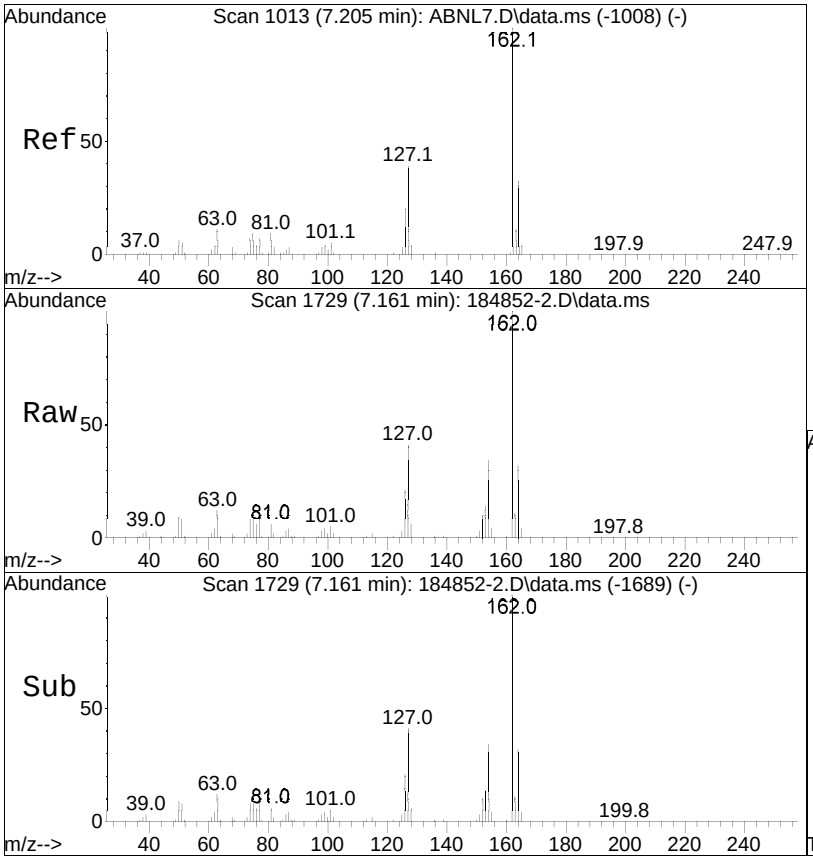


#44
2,4,5-Trichlorophenol
Concen: 33.49 ug/ml
RT: 7.011 min Scan# 1681
Delta R.T. 0.003 min
Lab File: 184852-2.D
Acq: 5 Dec 2018 5:24 pm

Tgt Ion:196 Resp: 95364

Ion	Ratio	Lower	Upper
196	100		
200	30.4	25.2	37.8
198	96.1	77.7	116.5

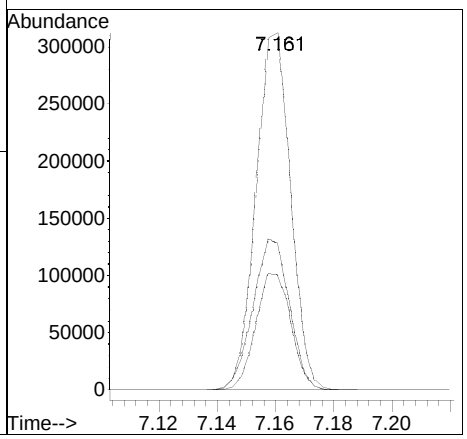


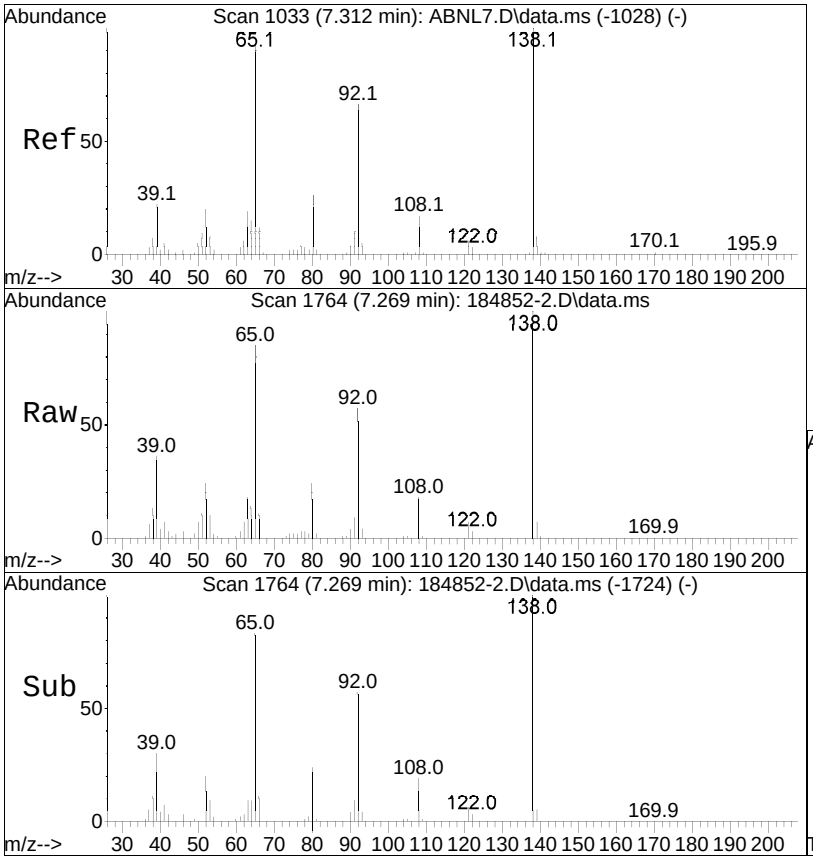


#46
2-Chloronaphthalene
Concen: 29.74 ug/ml
RT: 7.161 min Scan# 1729
Delta R.T. -0.000 min
Lab File: 184852-2.D
Acq: 5 Dec 2018 5:24 pm

Tgt Ion:162 Resp: 254978

Ion	Ratio	Lower	Upper
162	100		
127	44.7	31.7	47.5
164	33.4	26.2	39.4

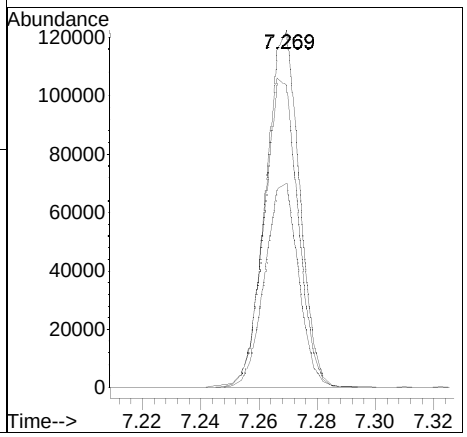


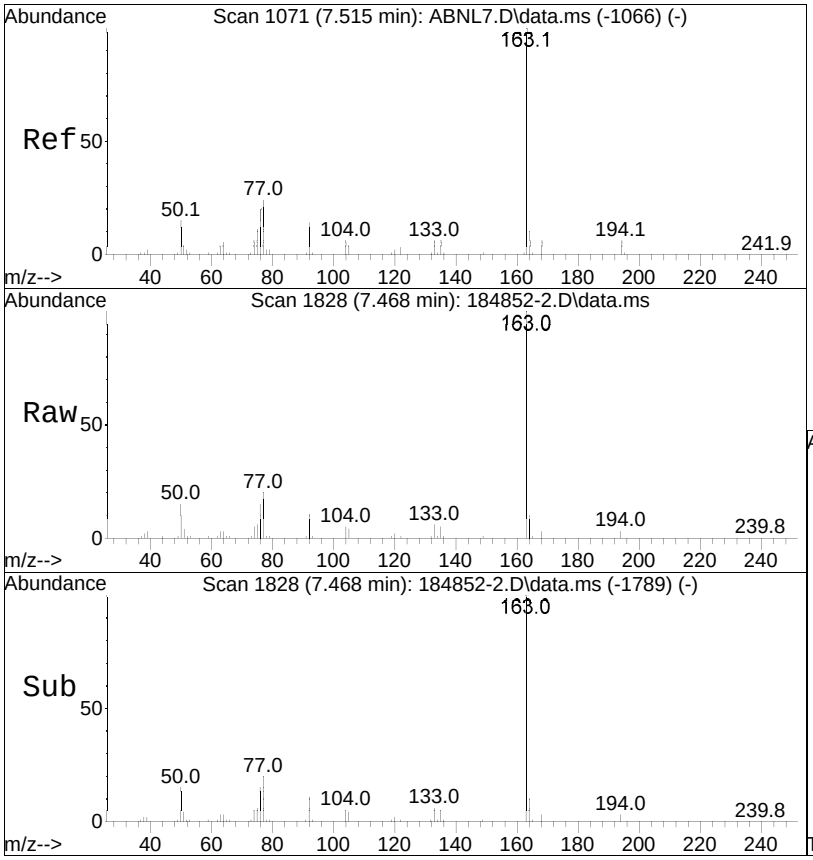


#47
2-Nitroaniline
Concen: 36.17 ug/ml
RT: 7.269 min Scan# 1764
Delta R.T. -0.000 min
Lab File: 184852-2.D
Acq: 5 Dec 2018 5:24 pm

Tgt Ion:138 Resp: 98041

Ion	Ratio	Lower	Upper
138	100		
92	57.2	48.0	72.0
65	87.0	72.8	109.2

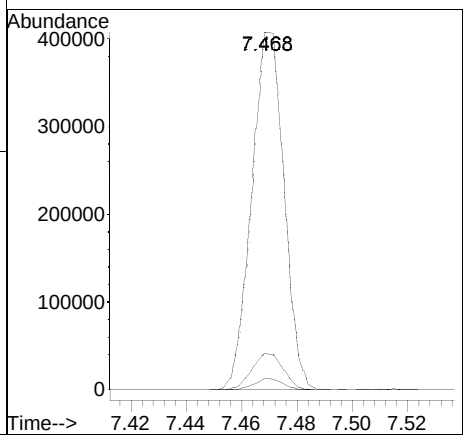


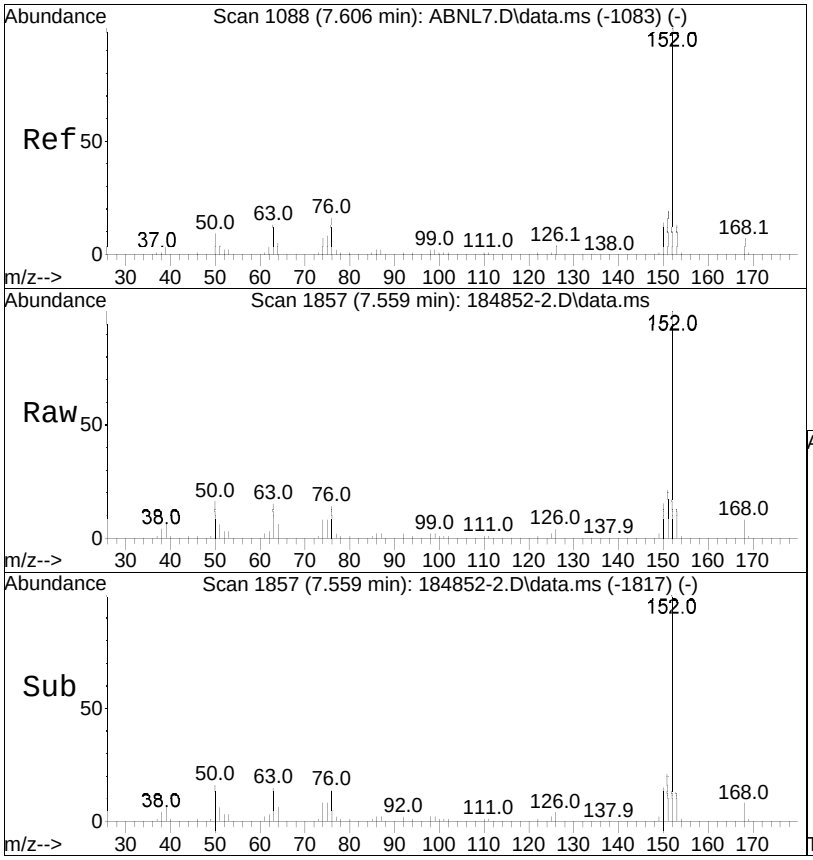


#50
Dimethyl phthalate
Concen: 32.23 ug/ml
RT: 7.468 min Scan# 1828
Delta R.T. -0.003 min
Lab File: 184852-2.D
Acq: 5 Dec 2018 5:24 pm

Tgt Ion:163 Resp: 327117

Ion	Ratio	Lower	Upper
163	100		
194	3.0	2.4	3.6
164	10.1	8.1	12.1

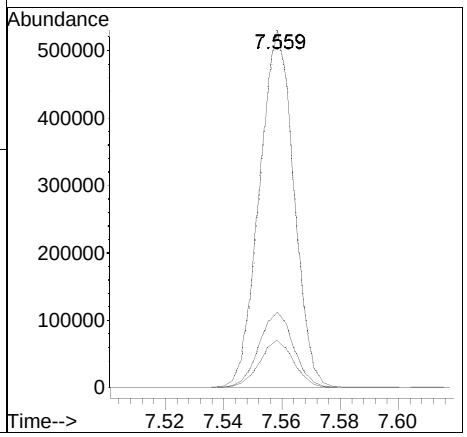


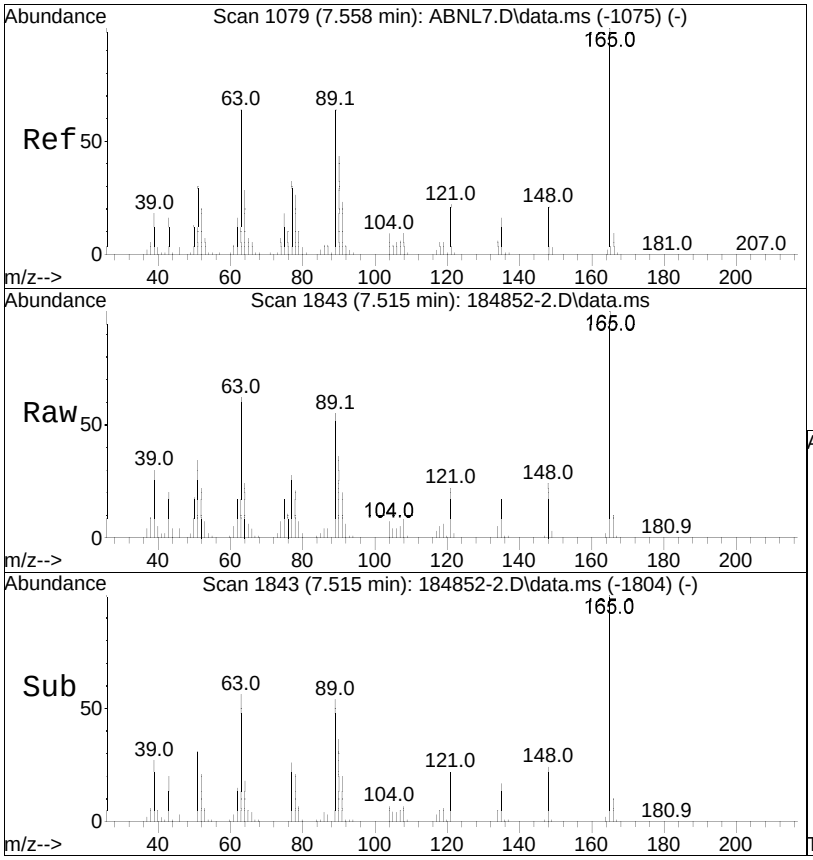


#51
Acenaphthylene
Concen: 31.27 ug/ml
RT: 7.559 min Scan# 1857
Delta R.T. -0.000 min
Lab File: 184852-2.D
Acq: 5 Dec 2018 5:24 pm

Tgt Ion:152 Resp: 431574

Ion	Ratio	Lower	Upper
152	100		
151	21.4	16.6	24.8
153	13.3	10.5	15.7

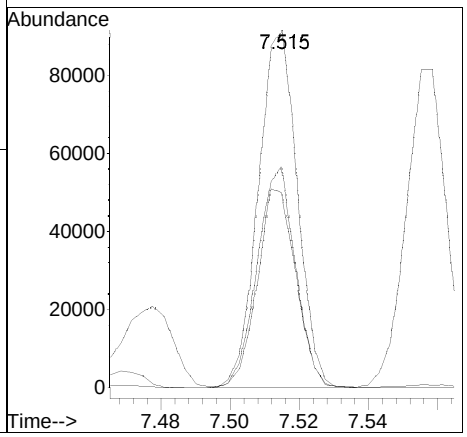


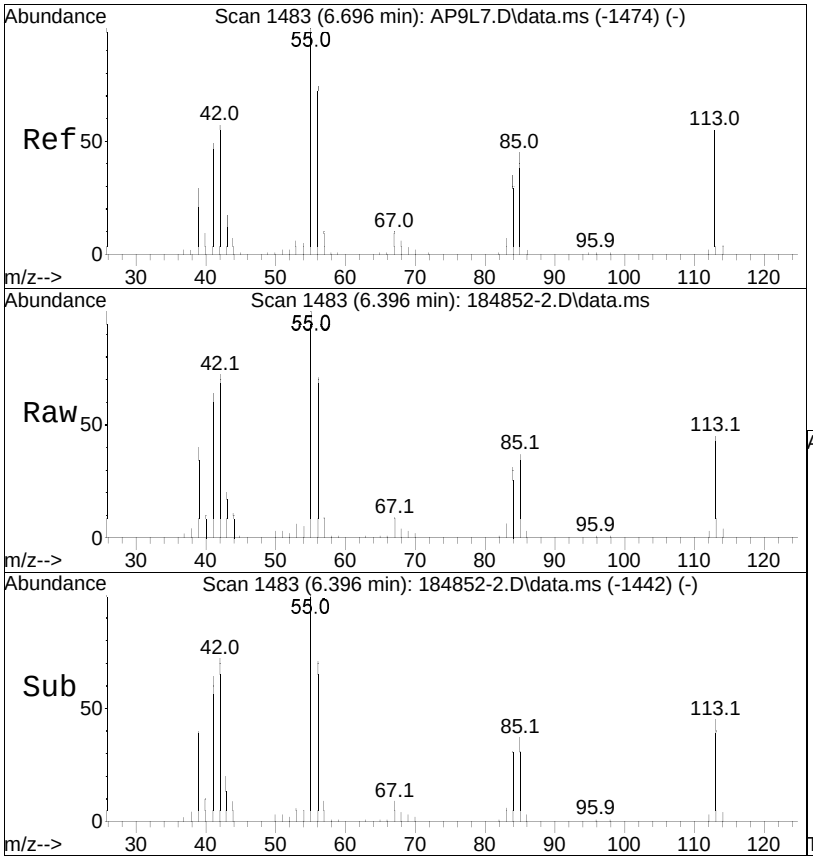


#52
2,6-Dinitrotoluene
Concen: 34.00 ug/ml
RT: 7.515 min Scan# 1843
Delta R.T. -0.003 min
Lab File: 184852-2.D
Acq: 5 Dec 2018 5:24 pm

Tgt Ion:165 Resp: 71735

Ion	Ratio	Lower	Upper
165	100		
89	55.3	44.7	67.1
63	60.8	48.2	72.4

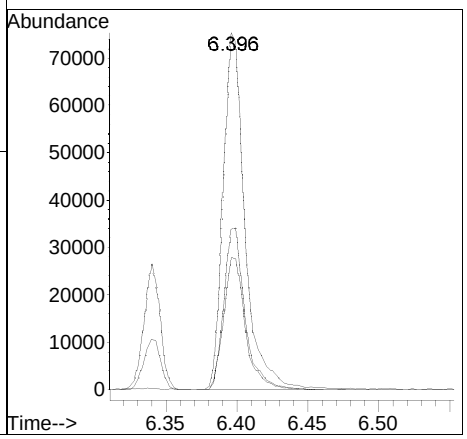


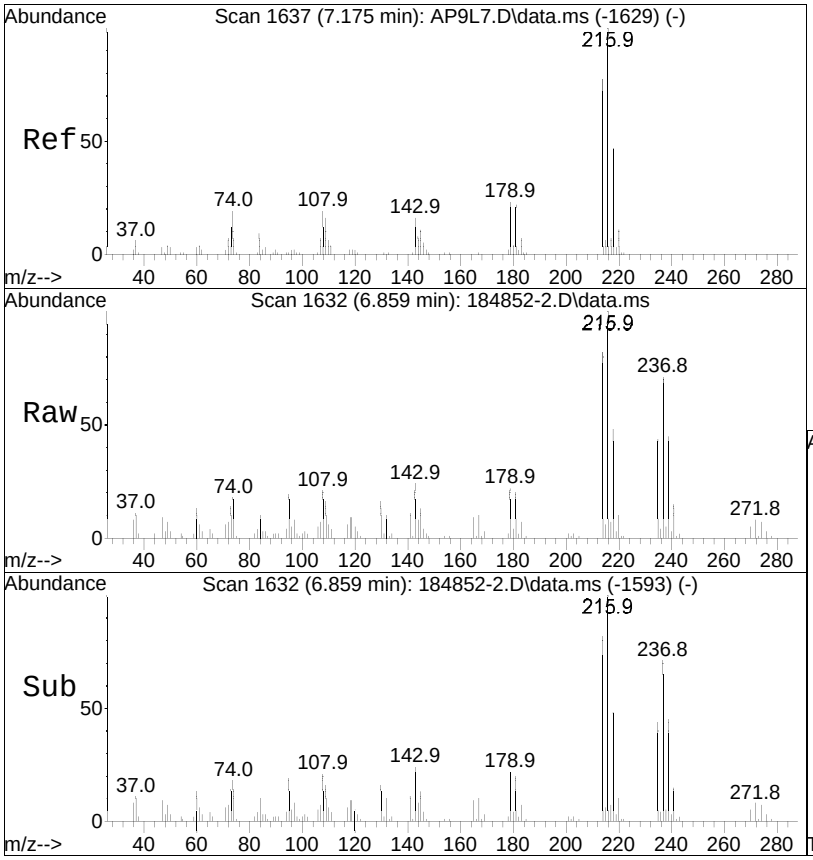


#59
Caprolactam
Concen: 37.65 ug/ml
RT: 6.396 min Scan# 1483
Delta R.T. 0.003 min
Lab File: 184852-2.D
Acq: 5 Dec 2018 5:24 pm

Tgt Ion: 55 Resp: 80377

Ion	Ratio	Lower	Upper
55	100		
85	37.2	30.9	46.3
113	44.1	34.7	52.1

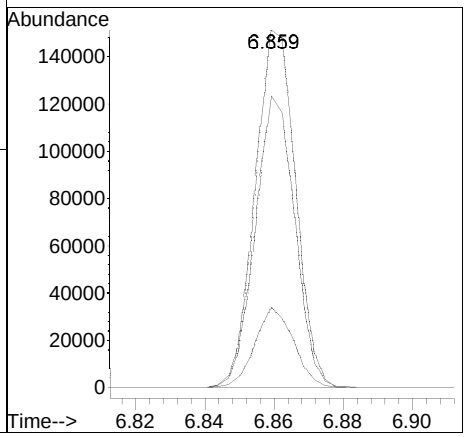


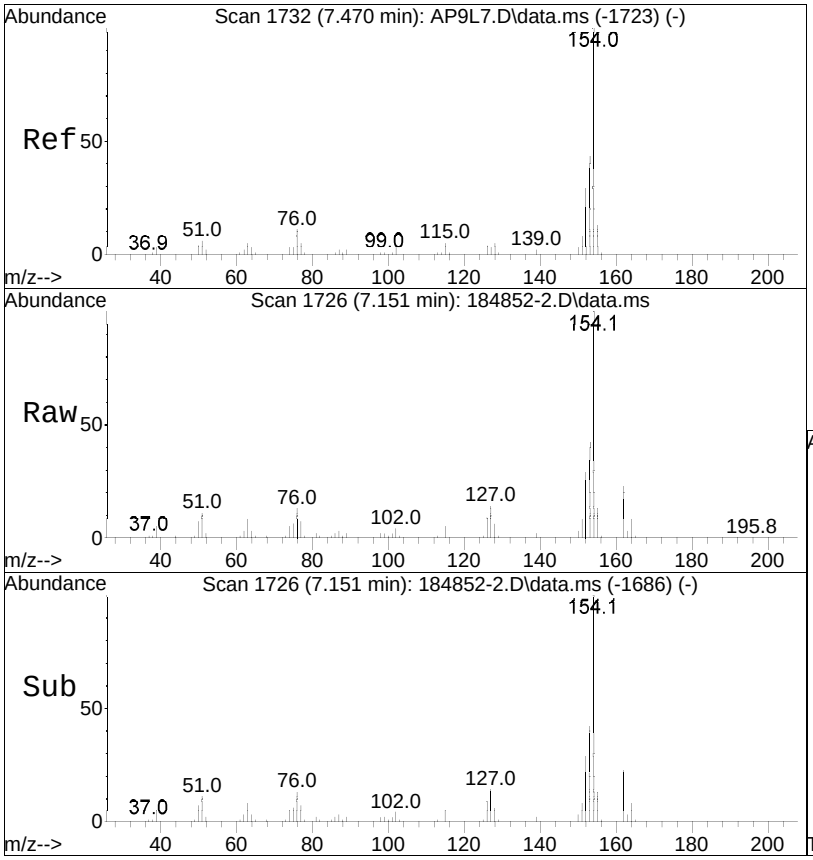


#60
1,2,4,5-Tetrachlorobenzene
Concen: 29.33 ug/ml
RT: 6.859 min Scan# 1632
Delta R.T. -0.003 min
Lab File: 184852-2.D
Acq: 5 Dec 2018 5:24 pm

Tgt Ion:216 Resp: 122288

Ion	Ratio	Lower	Upper
216	100		
214	79.8	62.2	93.4
179	21.4	17.4	26.2

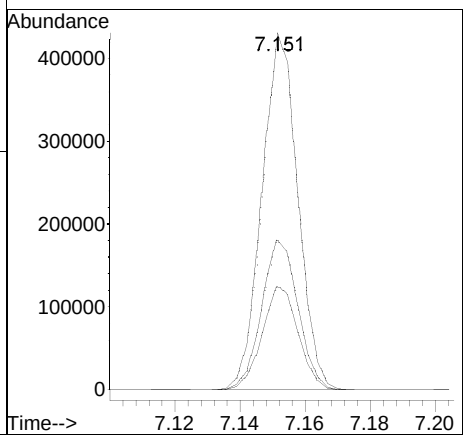


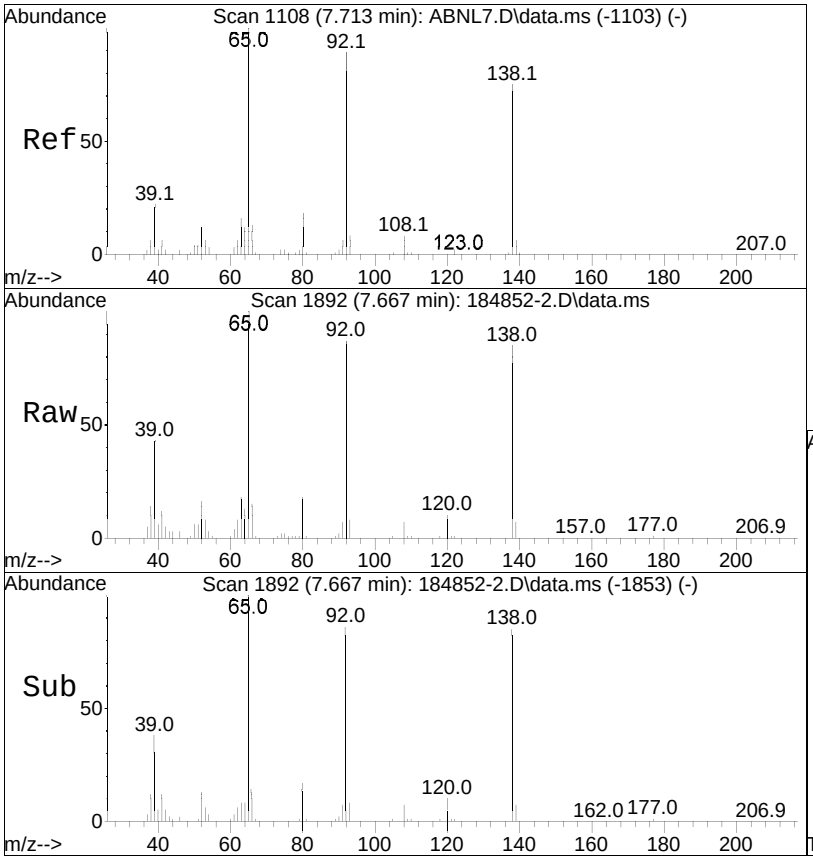


#61
Biphenyl
Concen: 31.22 ug/ml
RT: 7.151 min Scan# 1726
Delta R.T. 0.000 min
Lab File: 184852-2.D
Acq: 5 Dec 2018 5:24 pm

Tgt Ion:154 Resp: 326301

Ion	Ratio	Lower	Upper
154	100		
153	42.7	33.4	50.0
152	29.4	23.0	34.6

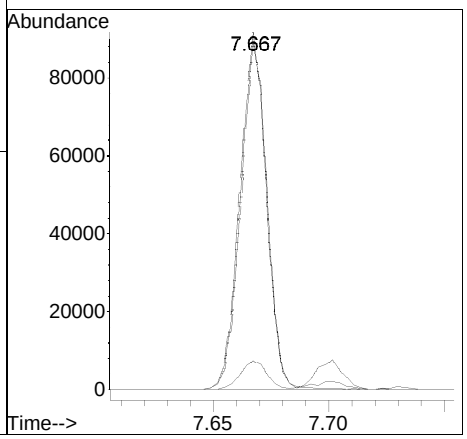


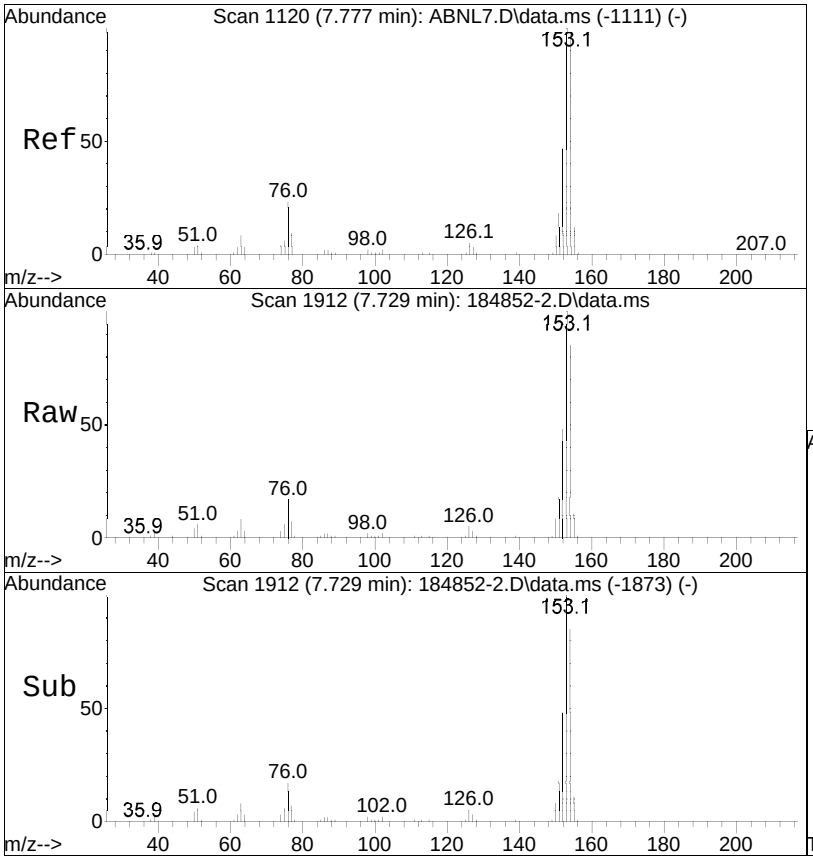


#63
3-Nitroaniline
Concen: 28.08 ug/ml
RT: 7.667 min Scan# 1892
Delta R.T. -0.003 min
Lab File: 184852-2.D
Acq: 5 Dec 2018 5:24 pm

Tgt Ion:138 Resp: 69866

Ion	Ratio	Lower	Upper
138	100		
92	102.3	86.4	129.6
108	8.4	9.4	14.0#

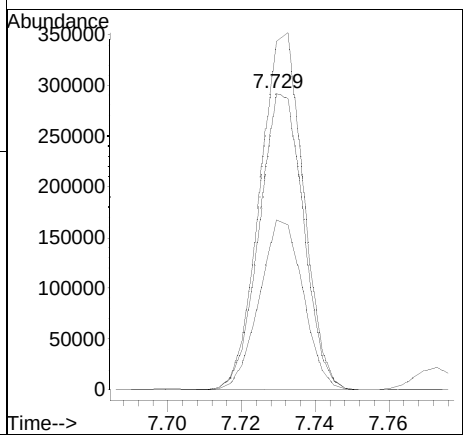


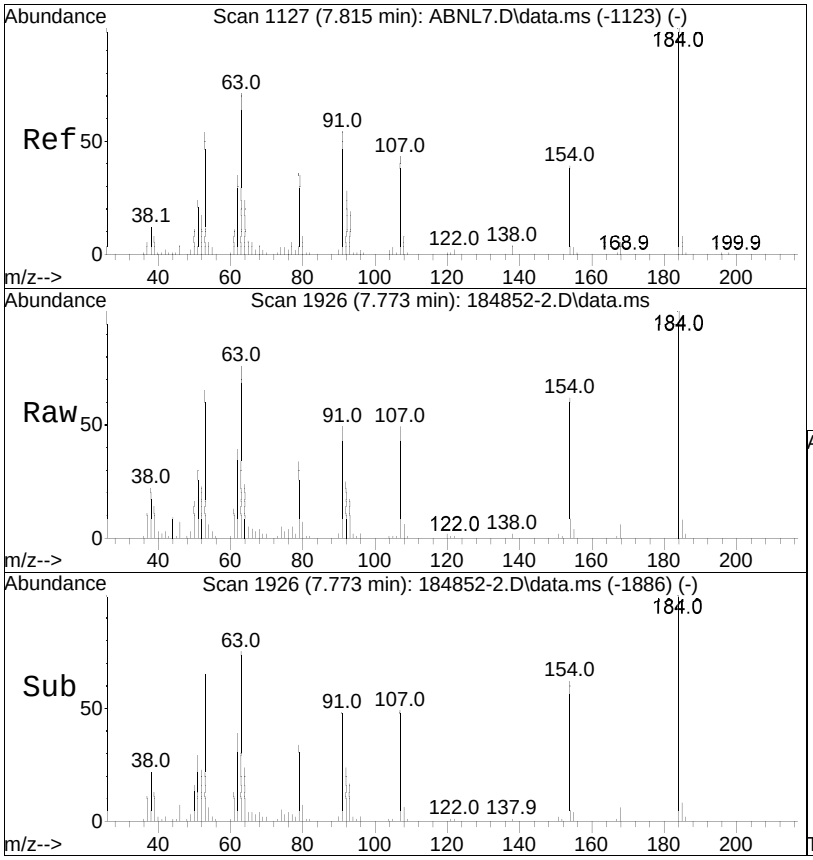


#64
Acenaphthene
Concen: 29.41 ug/ml
RT: 7.729 min Scan# 1912
Delta R.T. -0.003 min
Lab File: 184852-2.D
Acq: 5 Dec 2018 5:24 pm

Tgt Ion:154 Resp: 242266

Ion	Ratio	Lower	Upper
154	100		
153	118.9	94.2	141.2
152	57.1	44.1	66.1

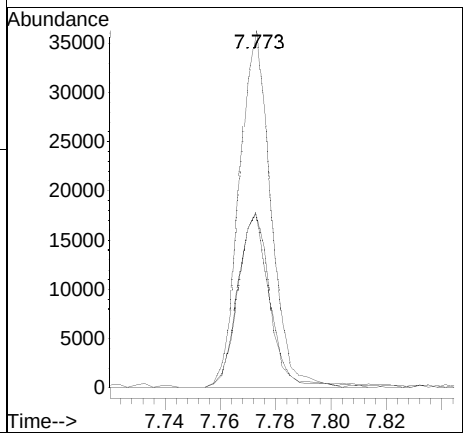


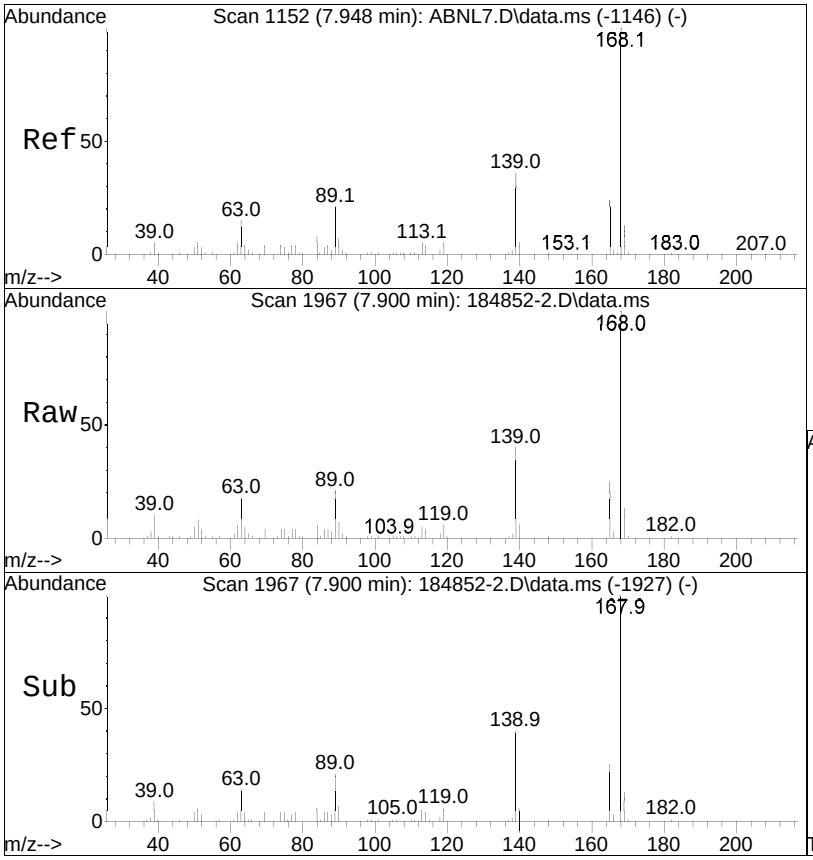


#65
2,4-Dinitrophenol
Concen: 24.13 ug/ml
RT: 7.773 min Scan# 1926
Delta R.T. -0.000 min
Lab File: 184852-2.D
Acq: 5 Dec 2018 5:24 pm

Tgt Ion:184 Resp: 28709

Ion	Ratio	Lower	Upper
184	100		
107	48.6	37.3	55.9
91	49.9	43.8	65.6

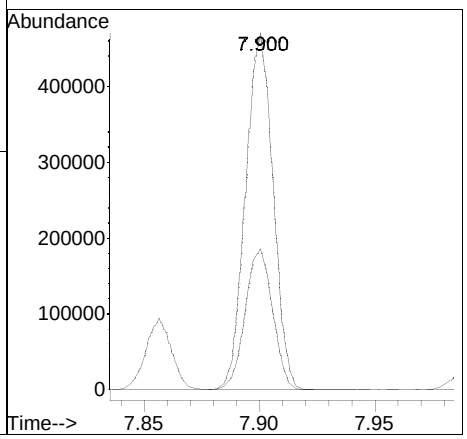


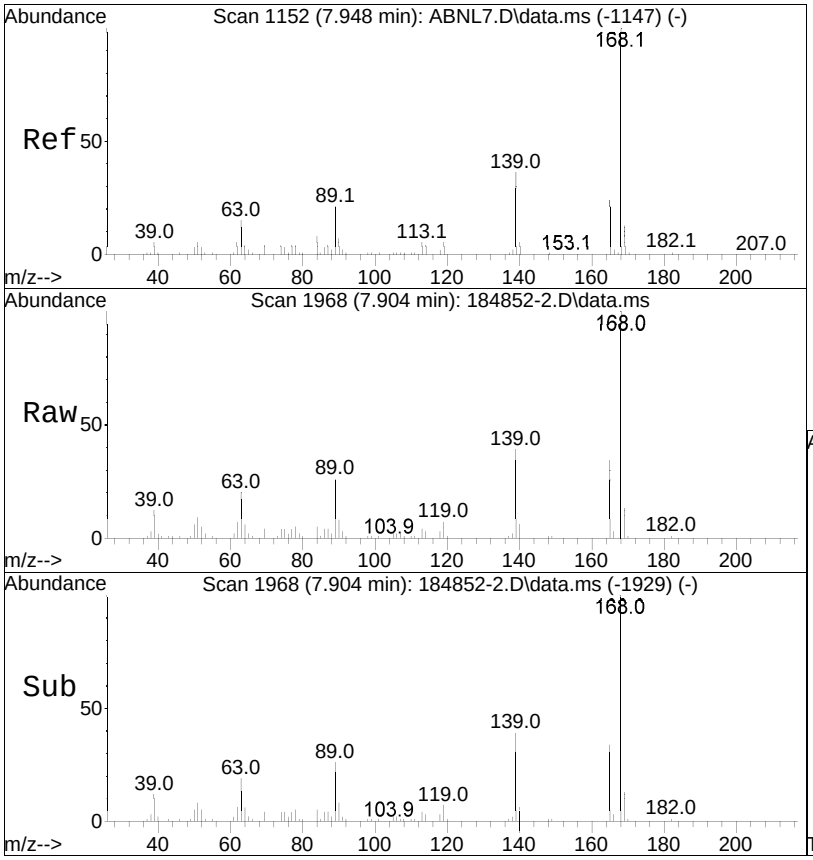


#66
Dibenzofuran
Concen: 29.87 ug/ml
RT: 7.900 min Scan# 1967
Delta R.T. -0.000 min
Lab File: 184852-2.D
Acq: 5 Dec 2018 5:24 pm

Tgt Ion:168 Resp: 386050

Ion	Ratio	Lower	Upper
168	100		
139	39.6	30.4	45.6

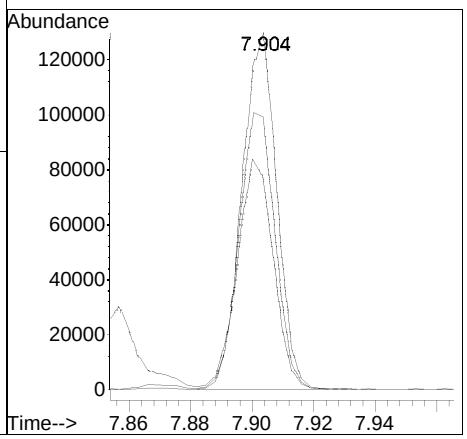


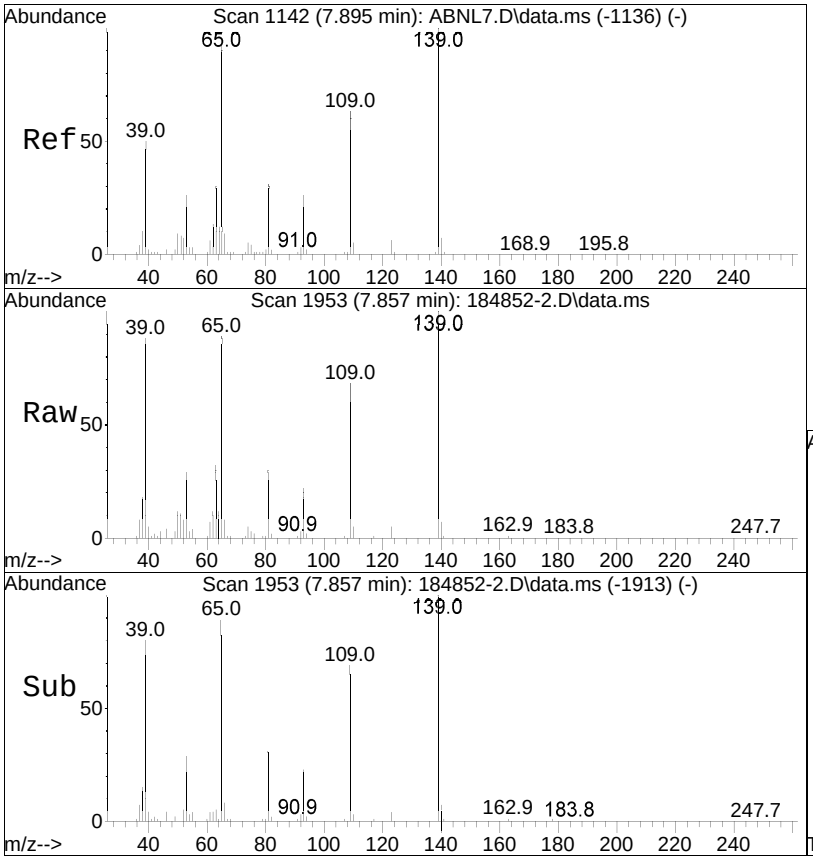


#67
2,4-Dinitrotoluene
Concen: 35.03 ug/ml
RT: 7.904 min Scan# 1968
Delta R.T. -0.003 min
Lab File: 184852-2.D
Acq: 5 Dec 2018 5:24 pm

Tgt Ion:165 Resp: 101490

Ion	Ratio	Lower	Upper
165	100		
89	80.6	69.8	104.8
63	67.1	59.2	88.8

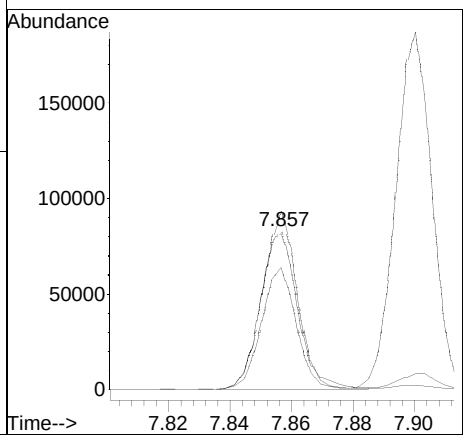


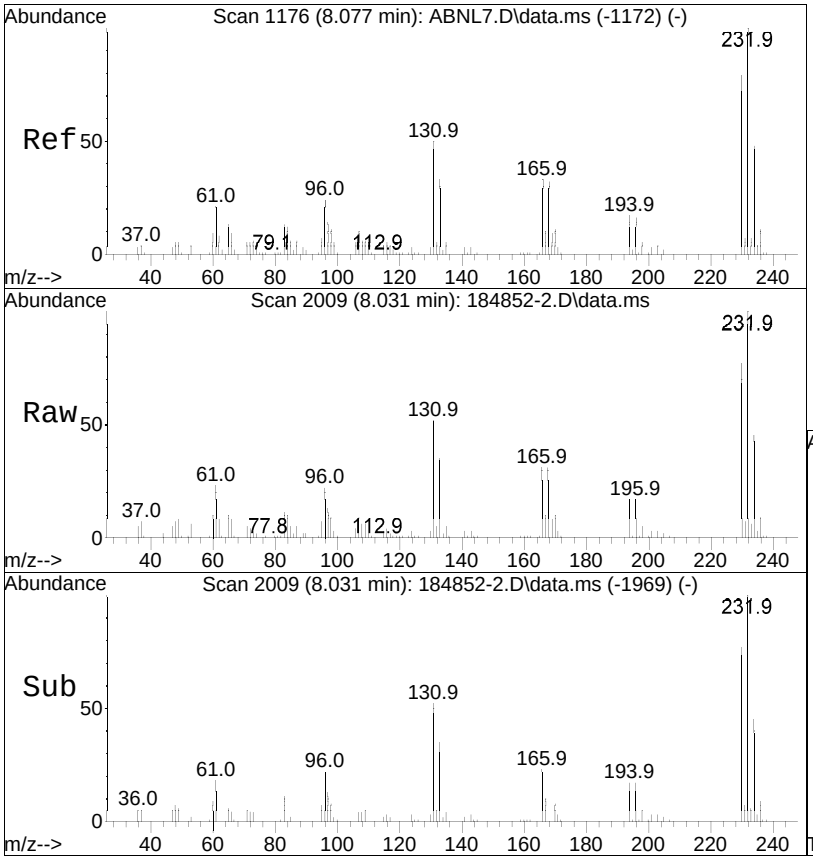


#68
4-Nitrophenol
Concen: 33.62 ug/ml
RT: 7.857 min Scan# 1953
Delta R.T. -0.000 min
Lab File: 184852-2.D
Acq: 5 Dec 2018 5:24 pm

Tgt Ion: 65 Resp: 69582

Ion	Ratio	Lower	Upper
65	100		
109	72.3	52.8	79.2
139	105.2	84.1	126.1

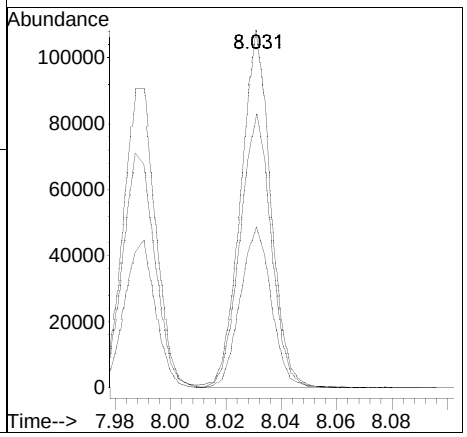


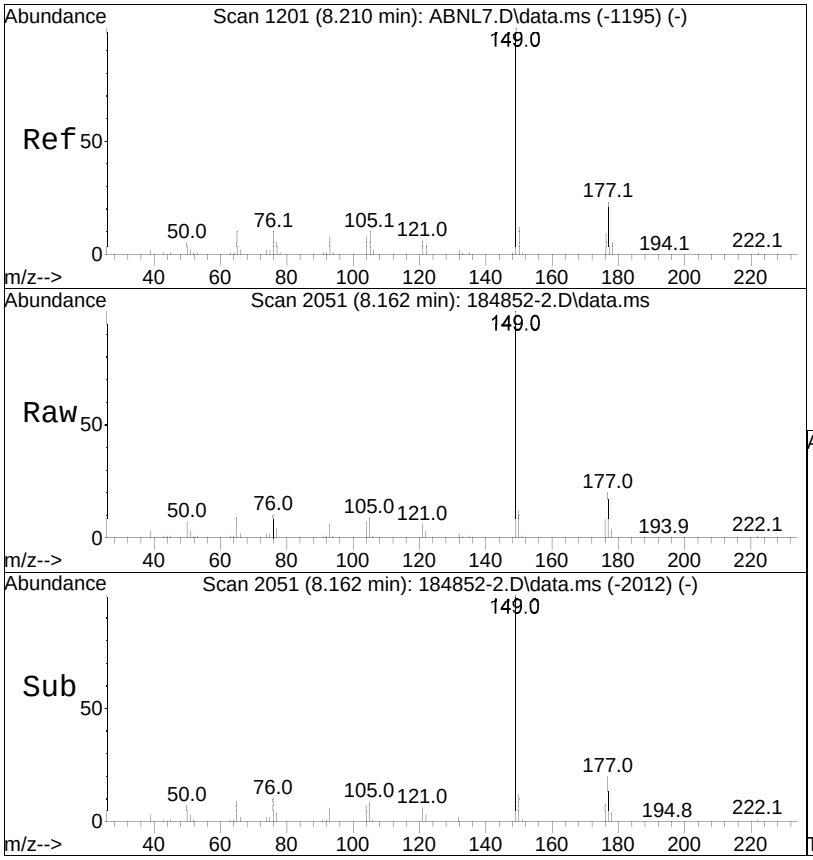


#70
2,3,4,6-Tetrachlorophenol
Concen: 31.02 ug/ml
RT: 8.031 min Scan# 2009
Delta R.T. -0.000 min
Lab File: 184852-2.D
Acq: 5 Dec 2018 5:24 pm

Tgt Ion:232 Resp: 82169

Ion	Ratio	Lower	Upper
232	100		
230	79.3	62.8	94.2
234	46.6	38.3	57.5

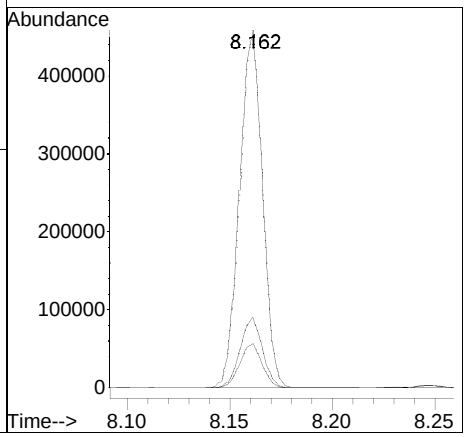


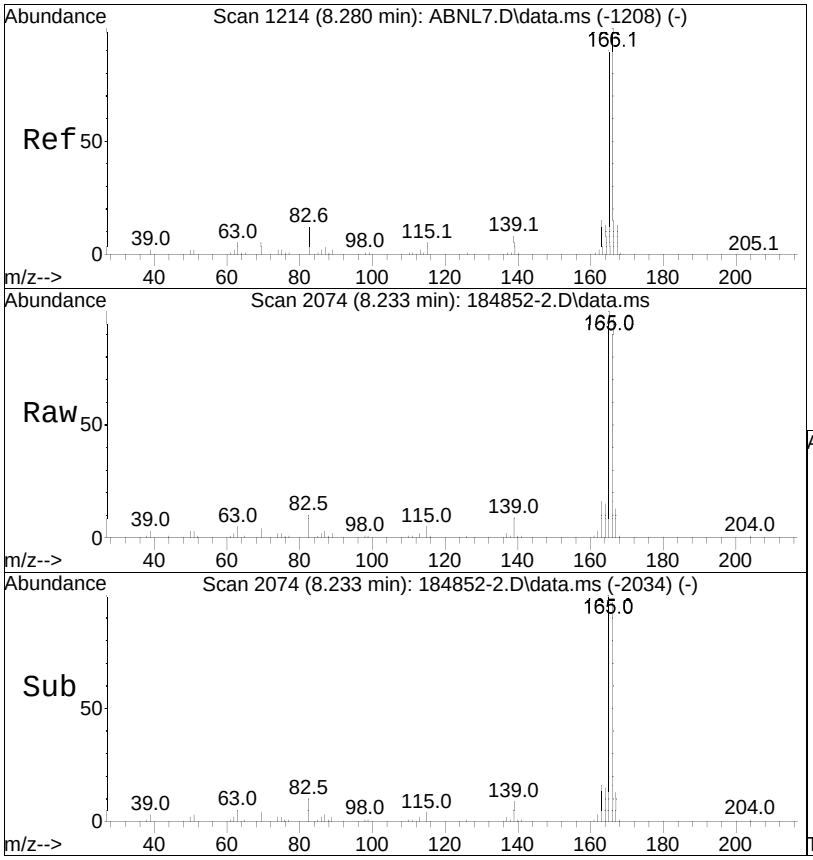


#71
Diethyl phthalate
Concen: 32.44 ug/ml
RT: 8.162 min Scan# 2051
Delta R.T. -0.003 min
Lab File: 184852-2.D
Acq: 5 Dec 2018 5:24 pm

Tgt Ion:149 Resp: 351455

Ion	Ratio	Lower	Upper
149	100		
177	19.3	15.6	23.4
150	12.2	9.6	14.4

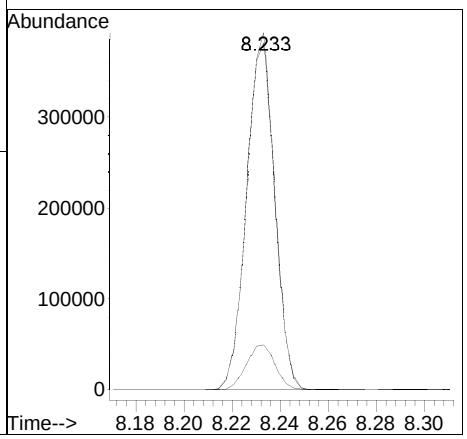


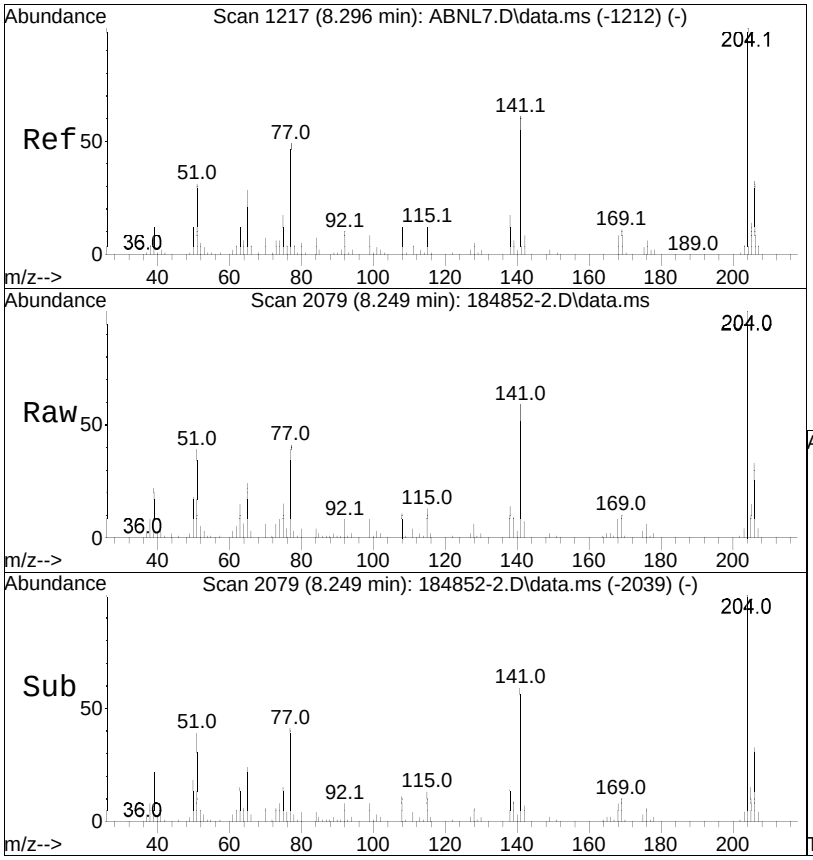


#72
Fluorene
Concen: 31.24 ug/ml
RT: 8.233 min Scan# 2074
Delta R.T. -0.000 min
Lab File: 184852-2.D
Acq: 5 Dec 2018 5:24 pm

Tgt Ion:166 Resp: 312014

Ion	Ratio	Lower	Upper
166	100		
165	101.8	80.4	120.6
167	13.6	10.7	16.1

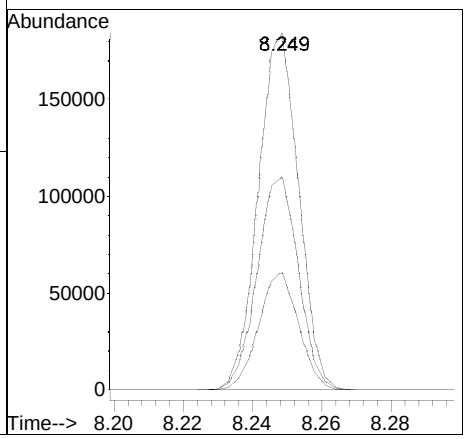


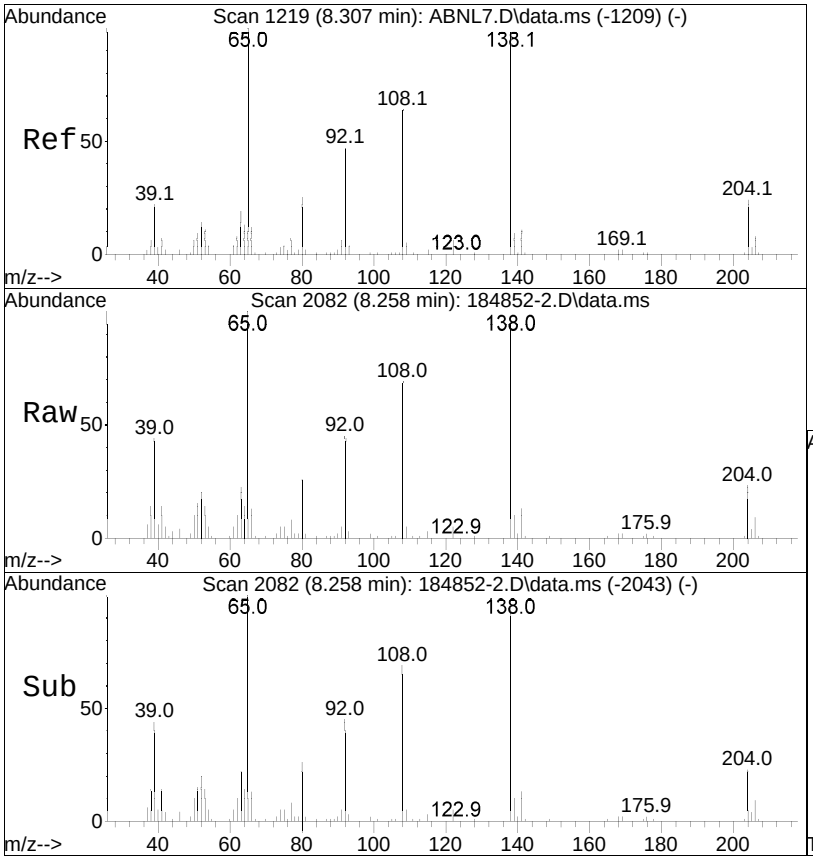


#73
4-Chlorophenyl phenyl ether
Concen: 30.75 ug/ml
RT: 8.249 min Scan# 2079
Delta R.T. -0.000 min
Lab File: 184852-2.D
Acq: 5 Dec 2018 5:24 pm

Tgt Ion:204 Resp: 148497

Ion	Ratio	Lower	Upper
204	100		
206	32.7	26.0	39.0
141	60.9	48.5	72.7

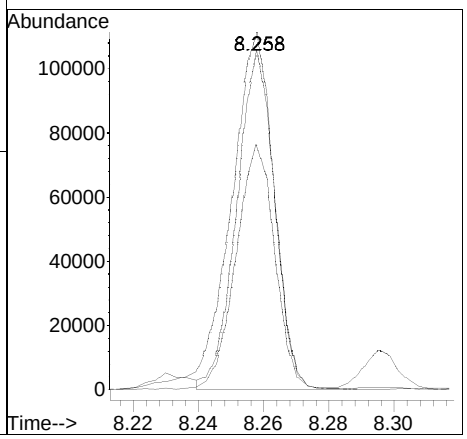


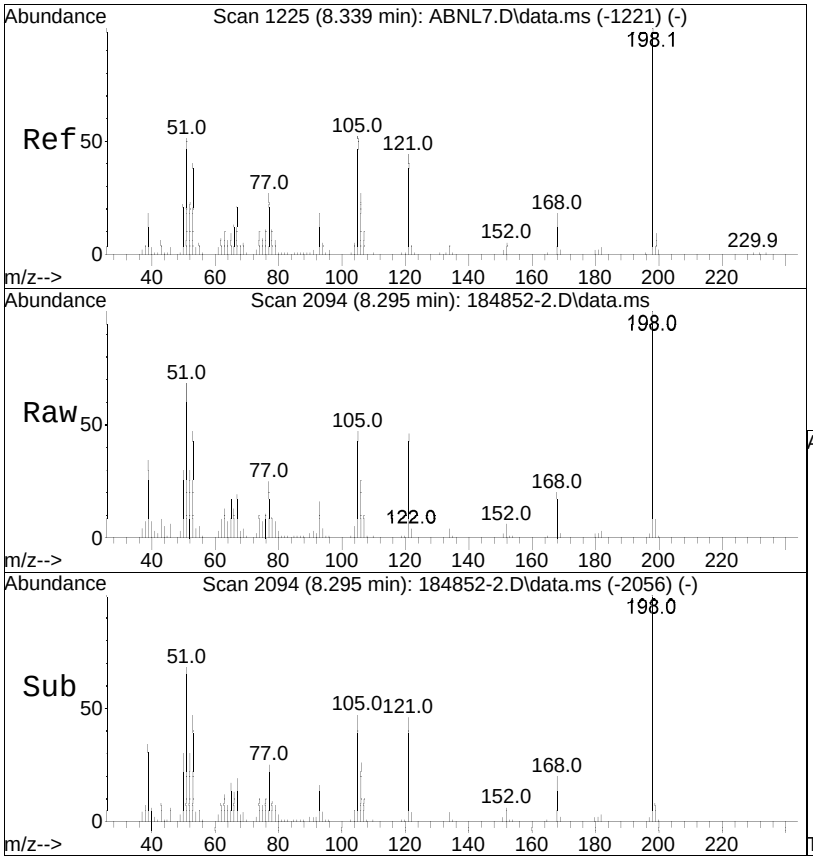


#74
4-Nitroaniline
Concen: 34.62 ug/ml
RT: 8.258 min Scan# 2082
Delta R.T. -0.003 min
Lab File: 184852-2.D
Acq: 5 Dec 2018 5:24 pm

Tgt Ion:138 Resp: 85347

Ion	Ratio	Lower	Upper
138	100		
108	73.9	54.4	81.6
65	119.7	100.1	150.1

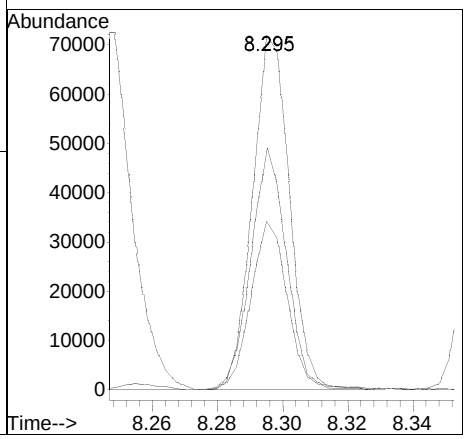


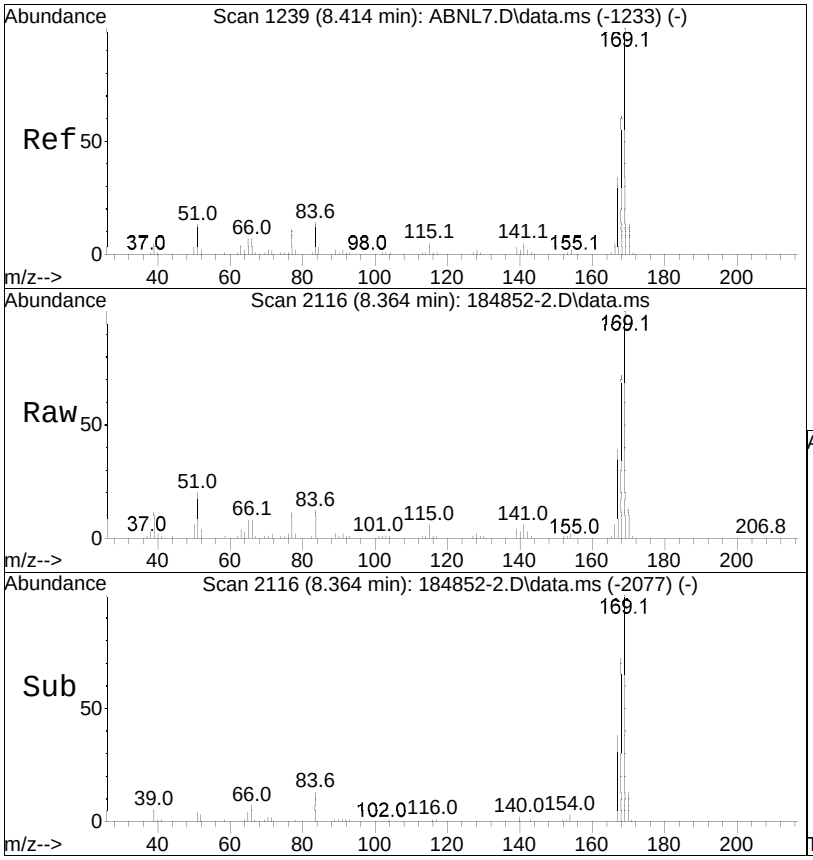


#75
4,6-Dinitro-o-cresol
Concen: 34.59 ug/ml
RT: 8.295 min Scan# 2094
Delta R.T. -0.006 min
Lab File: 184852-2.D
Acq: 5 Dec 2018 5:24 pm

Tgt Ion:198 Resp: 56949

Ion	Ratio	Lower	Upper
198	100		
51	66.6	48.3	72.5
105	46.8	38.4	57.6

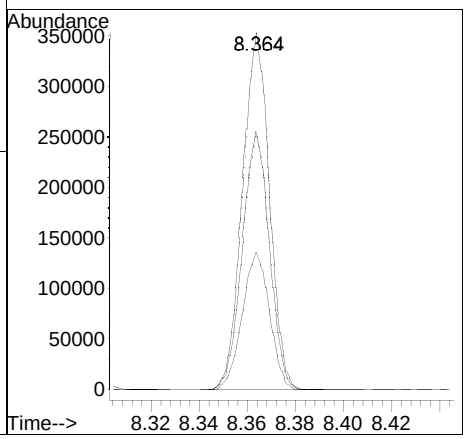


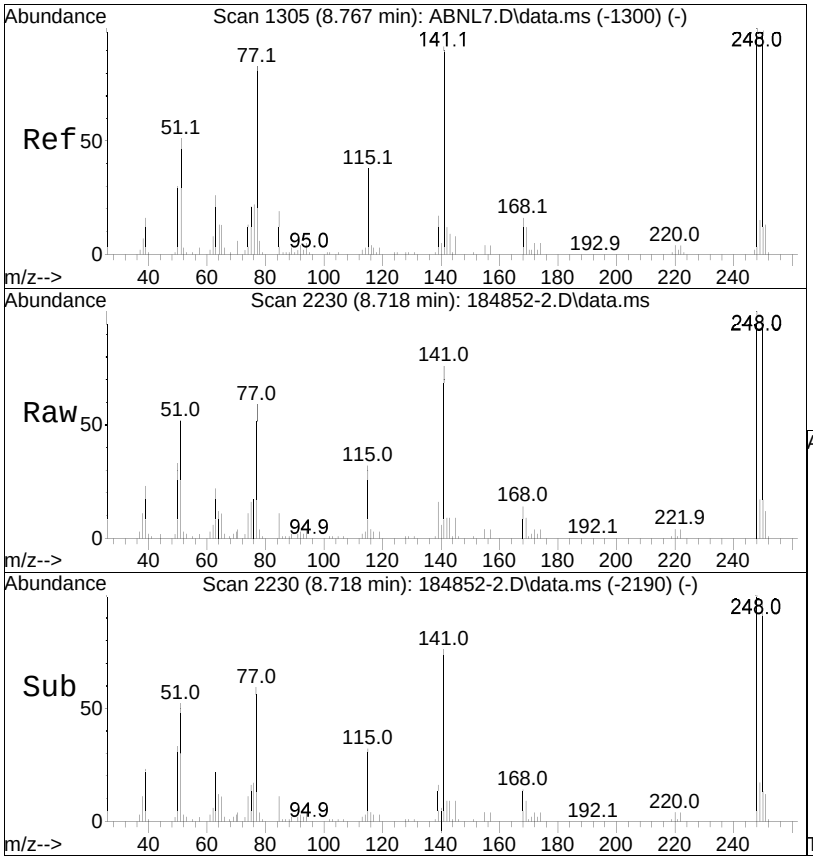


#76
NDPA/DPA
Concen: 32.36 ug/ml
RT: 8.364 min Scan# 2116
Delta R.T. -0.003 min
Lab File: 184852-2.D
Acq: 5 Dec 2018 5:24 pm

Tgt Ion:169 Resp: 273950

Ion	Ratio	Lower	Upper
169	100		
168	72.7	57.2	85.8
167	39.2	31.0	46.4

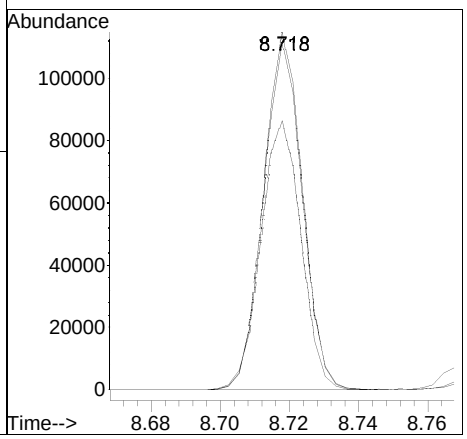


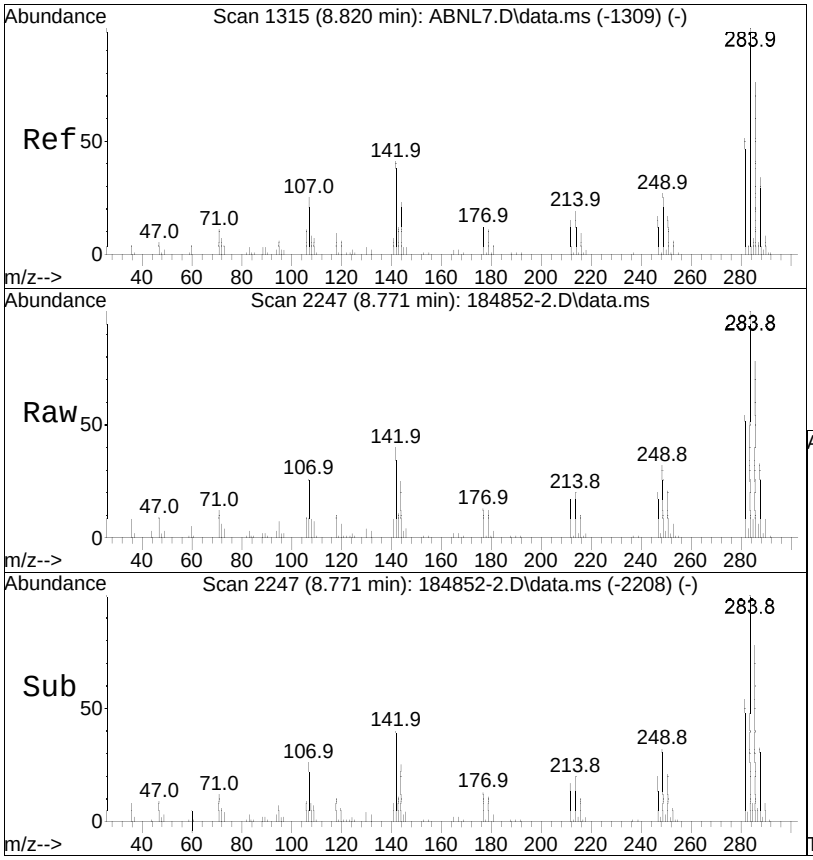


#79
4-Bromophenyl phenyl ether
Concen: 30.26 ug/ml
RT: 8.718 min Scan# 2230
Delta R.T. -0.000 min
Lab File: 184852-2.D
Acq: 5 Dec 2018 5:24 pm

Tgt Ion:248 Resp: 89173

Ion	Ratio	Lower	Upper
248	100		
141	77.6	59.9	89.9
250	97.2	78.0	117.0

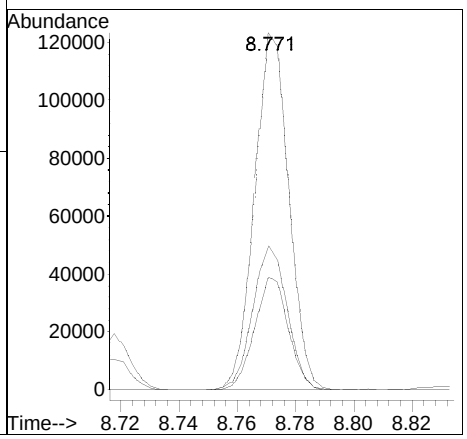


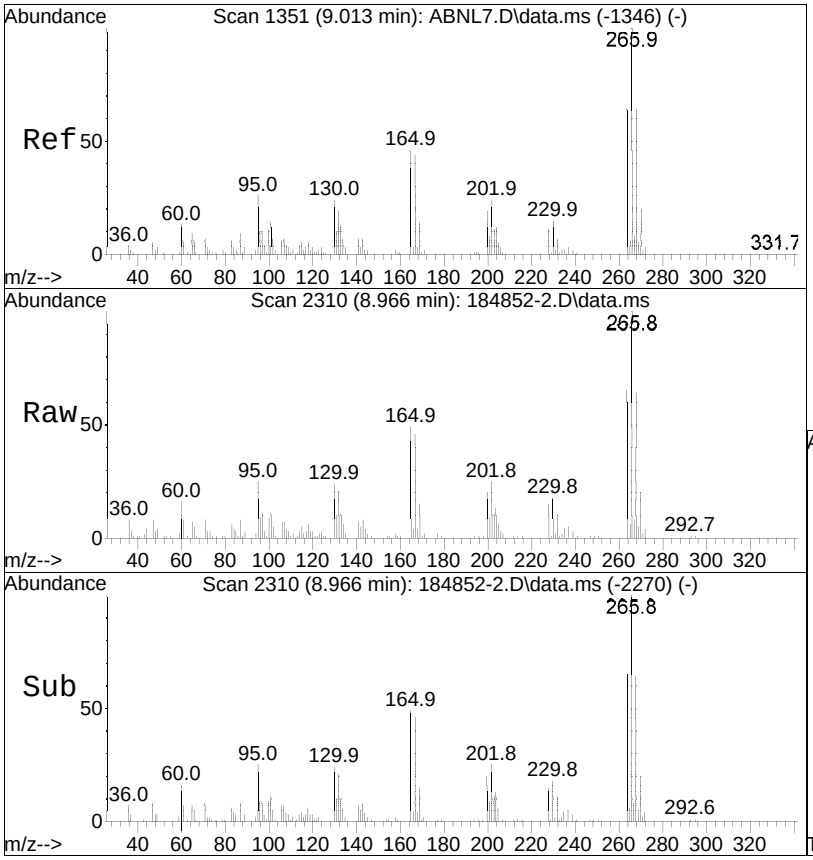


#80
Hexachlorobenzene
Concen: 27.45 ug/ml
RT: 8.771 min Scan# 2247
Delta R.T. -0.003 min
Lab File: 184852-2.D
Acq: 5 Dec 2018 5:24 pm

Tgt Ion:284 Resp: 100273

Ion	Ratio	Lower	Upper
284	100		
142	40.7	30.6	46.0
249	31.3	24.2	36.2

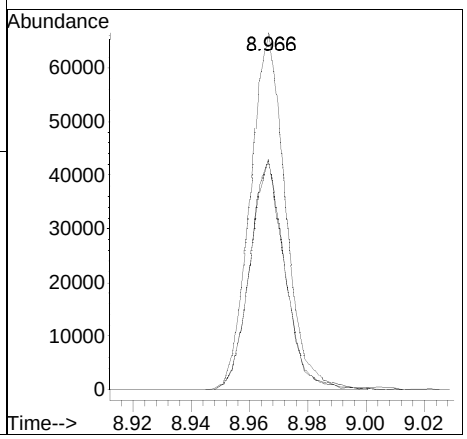


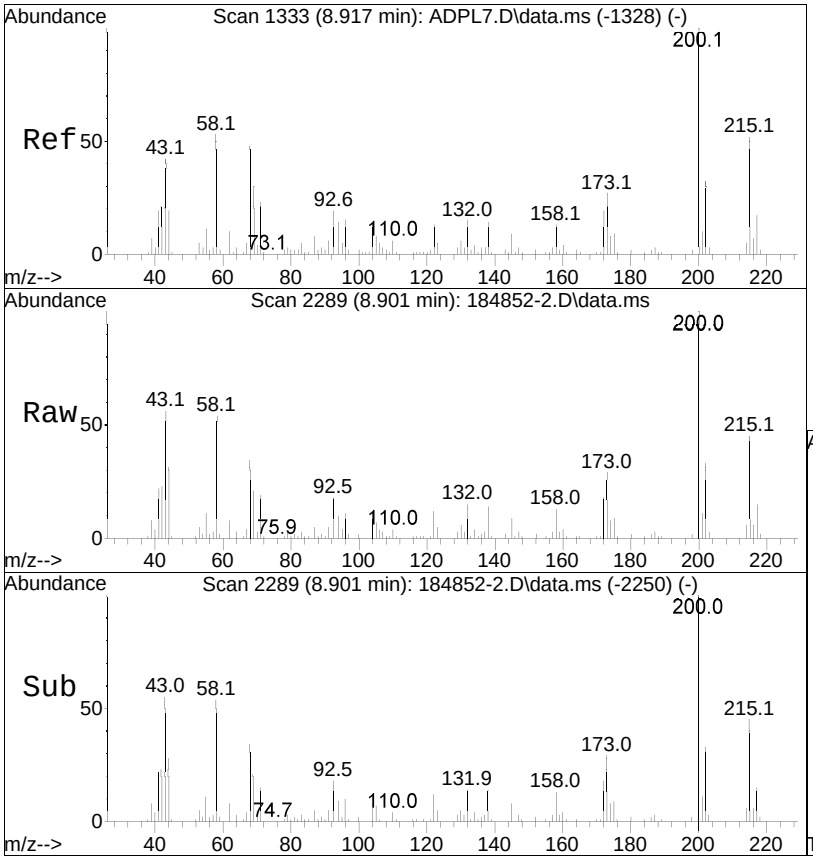


#81
Pentachlorophenol
Concen: 25.72 ug/ml
RT: 8.966 min Scan# 2310
Delta R.T. -0.000 min
Lab File: 184852-2.D
Acq: 5 Dec 2018 5:24 pm

Tgt Ion:266 Resp: 56087

Ion	Ratio	Lower	Upper
266	100		
264	63.5	50.2	75.4
268	64.1	50.7	76.1

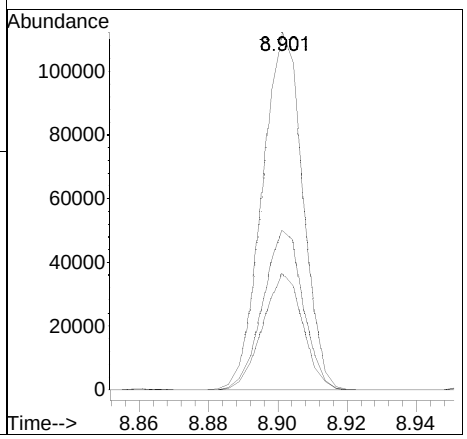


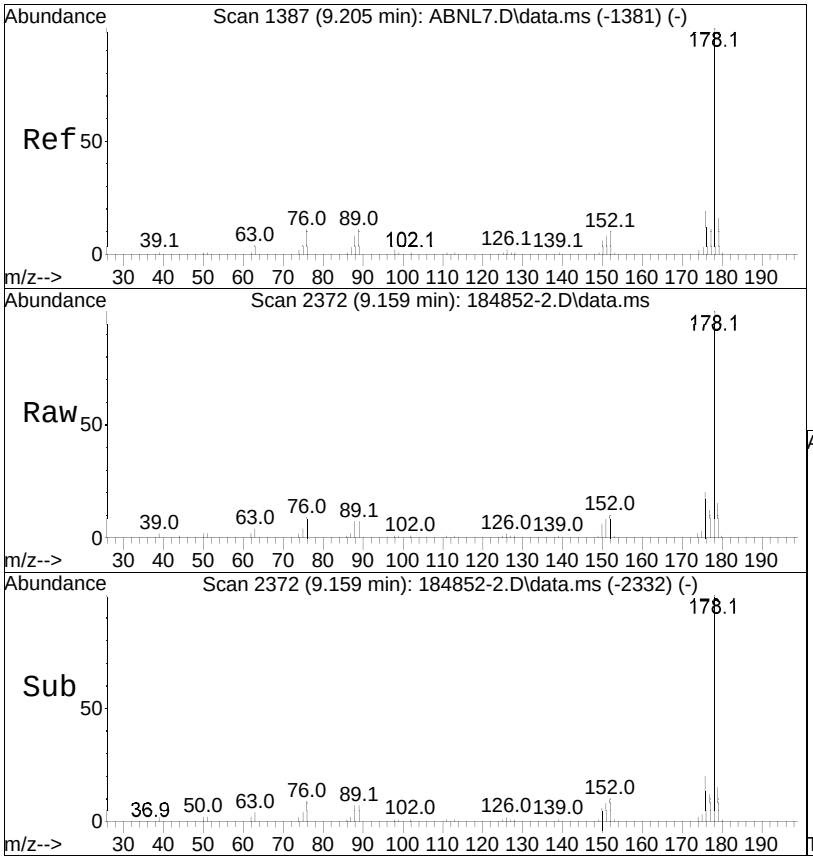


#86
Atrazine
Concen: 38.62 ug/ml
RT: 8.901 min Scan# 2289
Delta R.T. -0.003 min
Lab File: 184852-2.D
Acq: 5 Dec 2018 5:24 pm

Tgt Ion:200 Resp: 90652

Ion	Ratio	Lower	Upper
200	100		
202	32.3	26.1	39.1
215	44.2	36.2	54.2

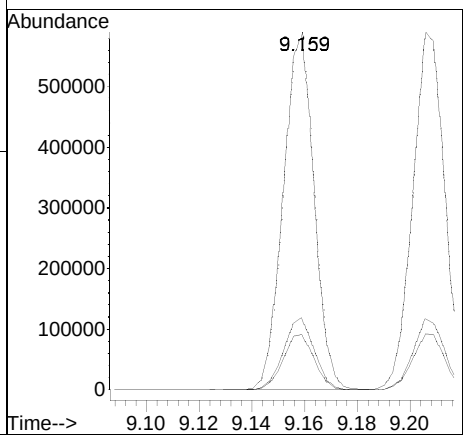


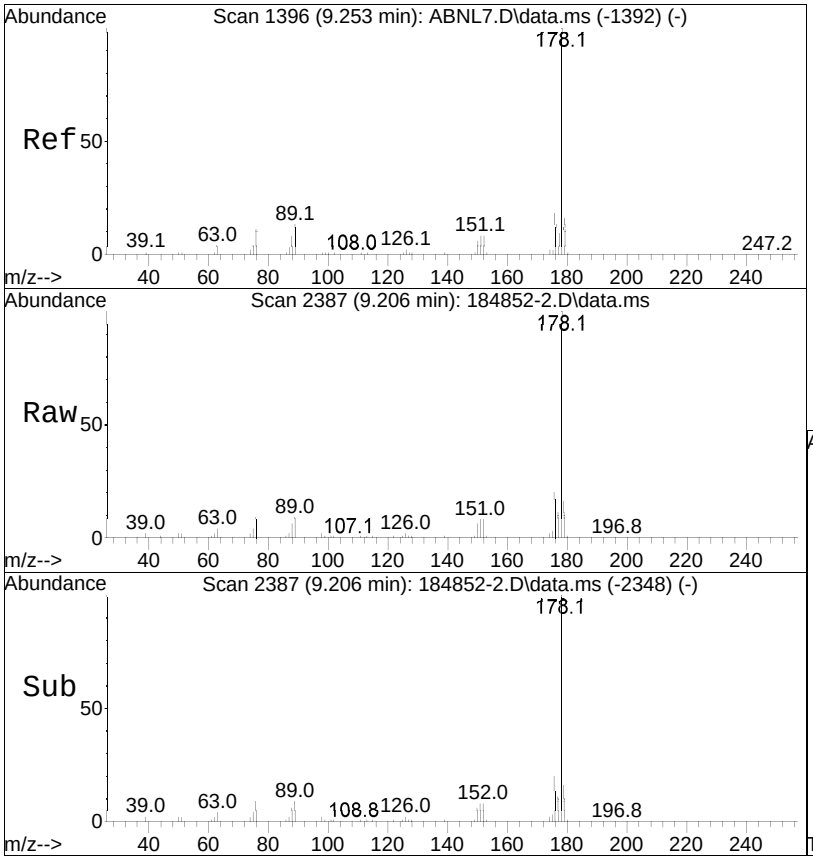


#88
Phenanthrene
Concen: 29.26 ug/ml
RT: 9.159 min Scan# 2372
Delta R.T. -0.000 min
Lab File: 184852-2.D
Acq: 5 Dec 2018 5:24 pm

Tgt Ion:178 Resp: 477382

Ion	Ratio	Lower	Upper
178	100		
179	15.7	12.2	18.4
176	20.0	15.5	23.3

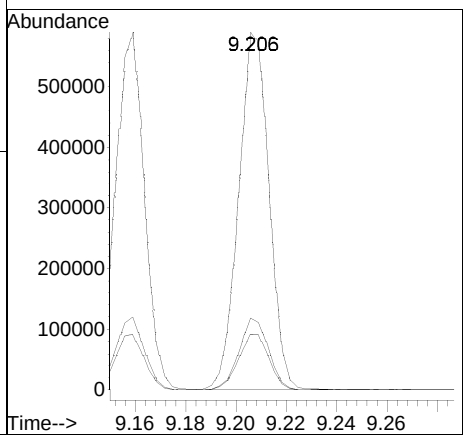


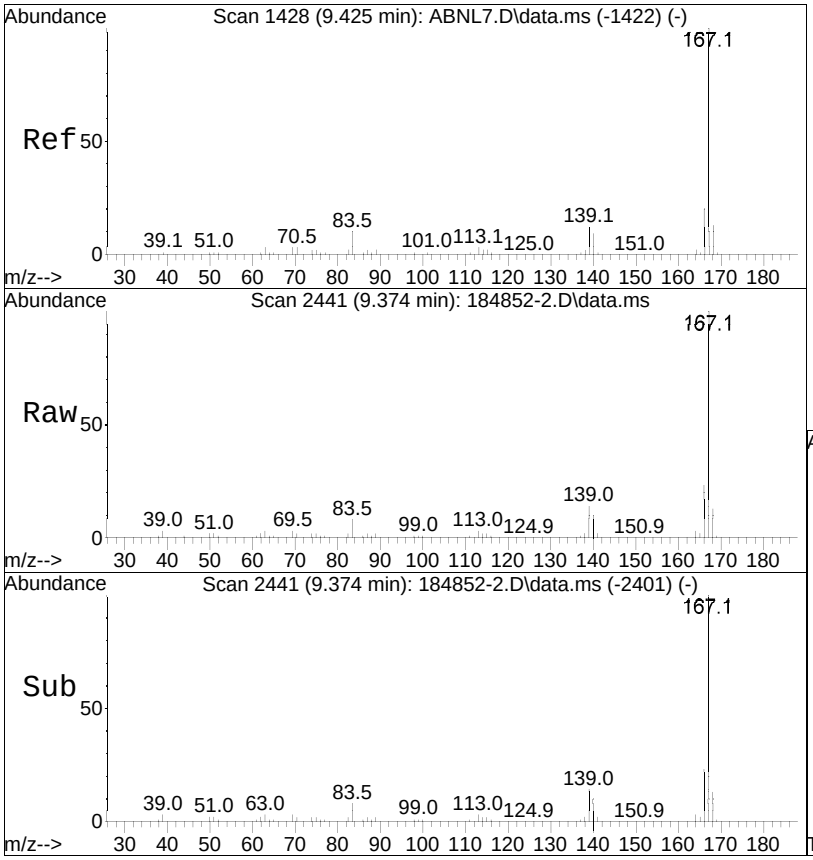


#89
Anthracene
Concen: 30.44 ug/ml
RT: 9.206 min Scan# 2387
Delta R.T. -0.003 min
Lab File: 184852-2.D
Acq: 5 Dec 2018 5:24 pm

Tgt Ion:178 Resp: 492990

Ion	Ratio	Lower	Upper
178	100		
179	15.7	12.3	18.5
176	19.5	15.0	22.6

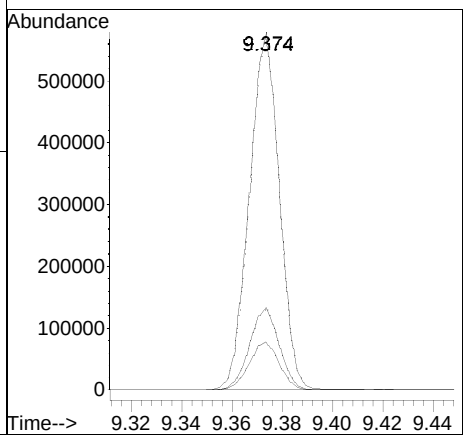


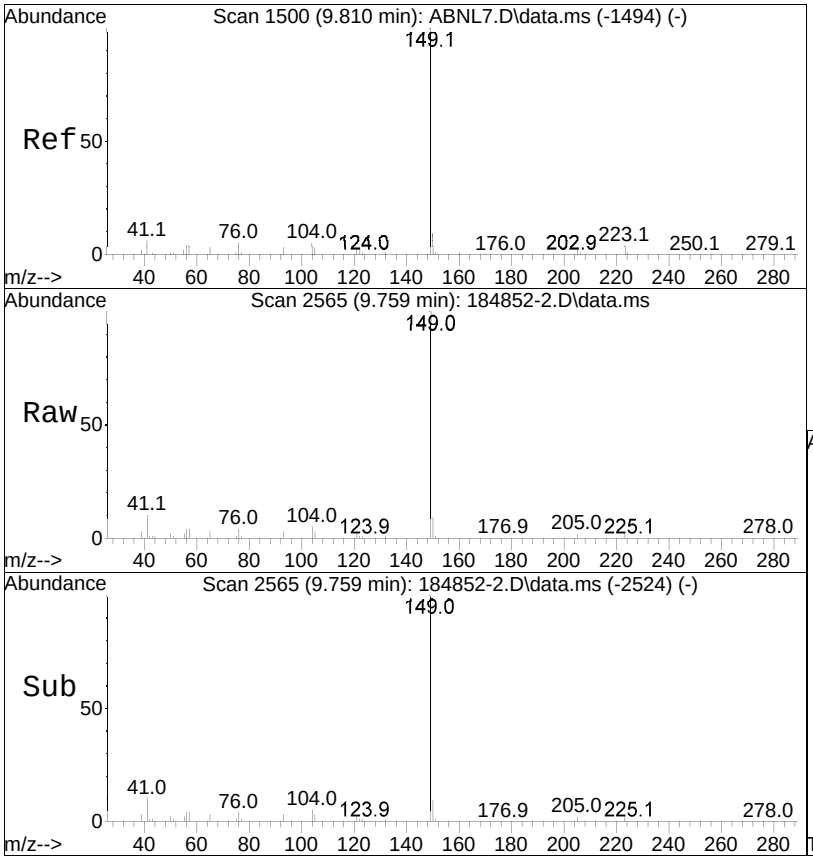


#90
Carbazole
Concen: 31.42 ug/ml
RT: 9.374 min Scan# 2441
Delta R.T. -0.000 min
Lab File: 184852-2.D
Acq: 5 Dec 2018 5:24 pm

Tgt Ion:167 Resp: 473136

Ion	Ratio	Lower	Upper
167	100		
168	13.6	10.6	16.0
166	22.8	18.0	27.0

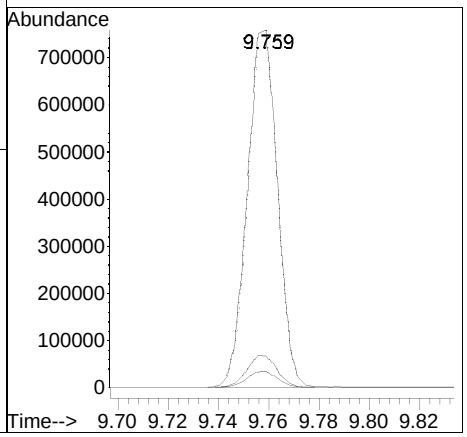


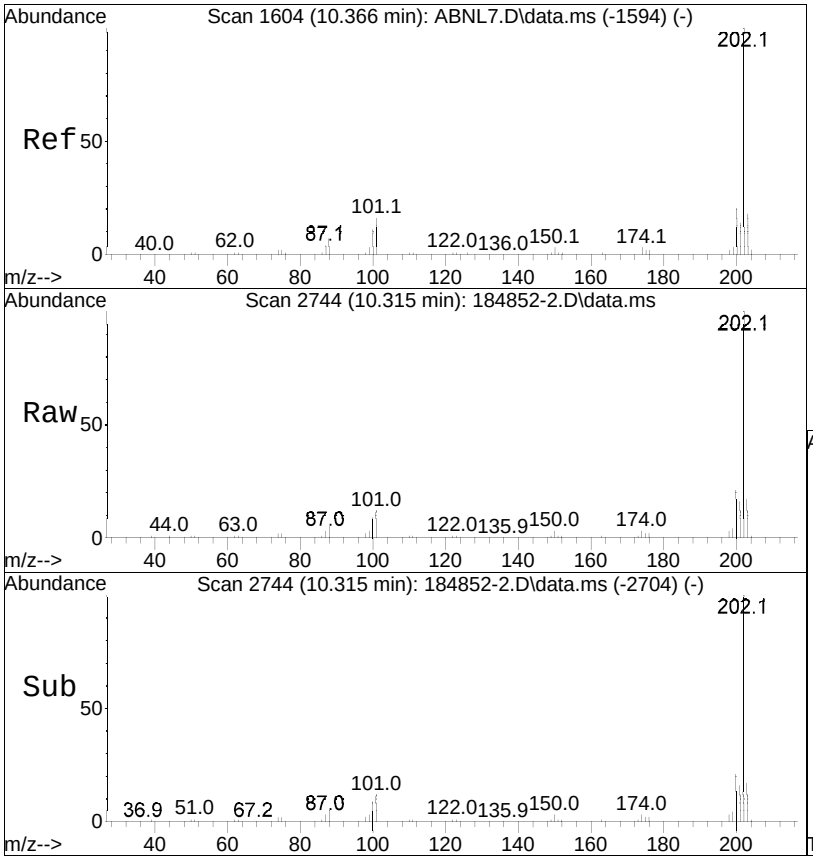


#91
Di-n-butylphthalate
Concen: 33.15 ug/ml
RT: 9.759 min Scan# 2565
Delta R.T. 0.003 min
Lab File: 184852-2.D
Acq: 5 Dec 2018 5:24 pm

Tgt Ion:149 Resp: 623331

Ion	Ratio	Lower	Upper
149	100		
150	9.0	7.3	10.9
104	4.6	3.6	5.4

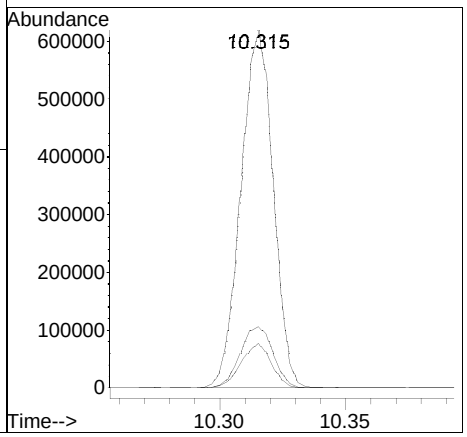


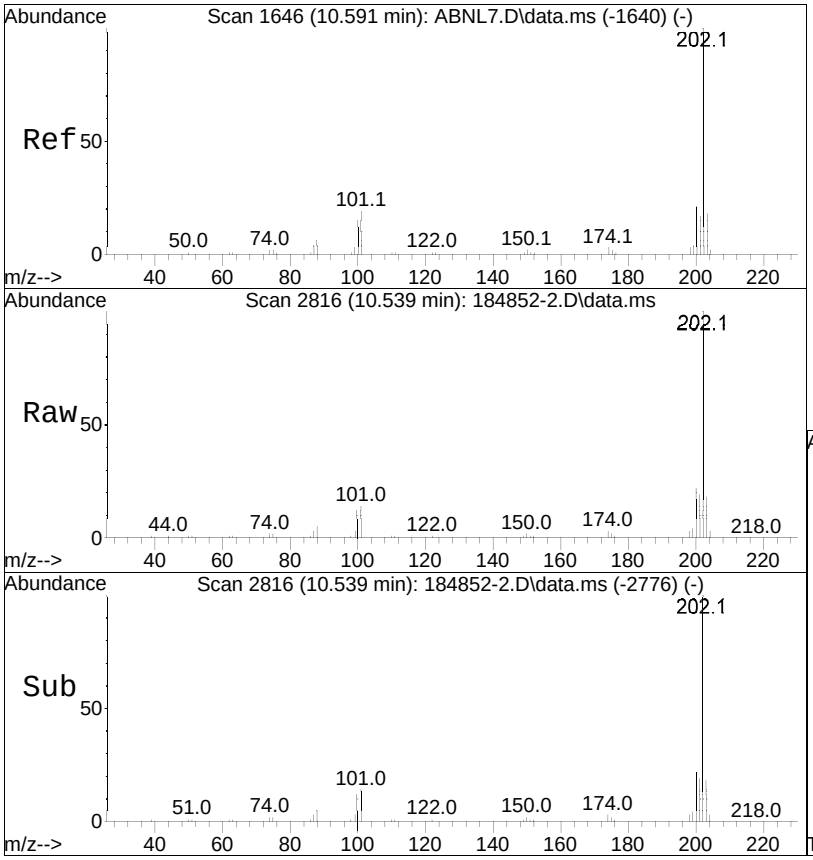


#92
Fluoranthene
Concen: 31.78 ug/ml
RT: 10.315 min Scan# 2744
Delta R.T. -0.000 min
Lab File: 184852-2.D
Acq: 5 Dec 2018 5:24 pm

Tgt Ion:202 Resp: 548553

Ion	Ratio	Lower	Upper
202	100		
101	11.8	11.2	16.8
203	17.6	13.8	20.6

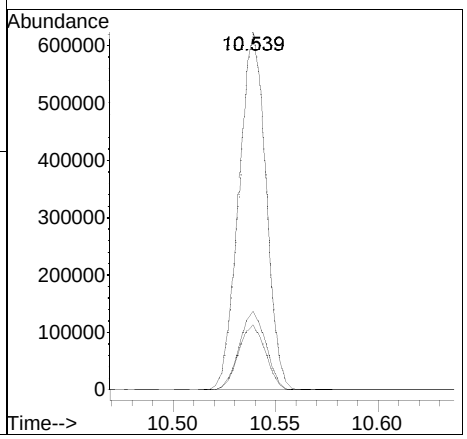


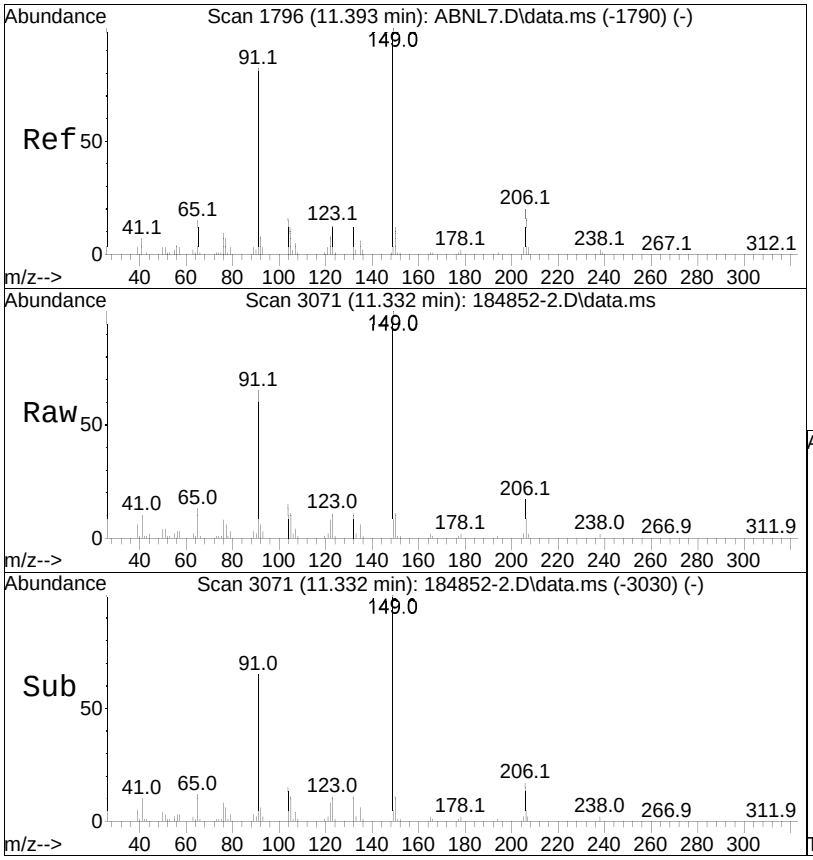


#94
Pyrene
Concen: 31.28 ug/ml
RT: 10.539 min Scan# 2816
Delta R.T. -0.000 min
Lab File: 184852-2.D
Acq: 5 Dec 2018 5:24 pm

Tgt Ion:202 Resp: 567610

Ion	Ratio	Lower	Upper
202	100		
200	21.8	17.0	25.4
203	18.3	14.2	21.4

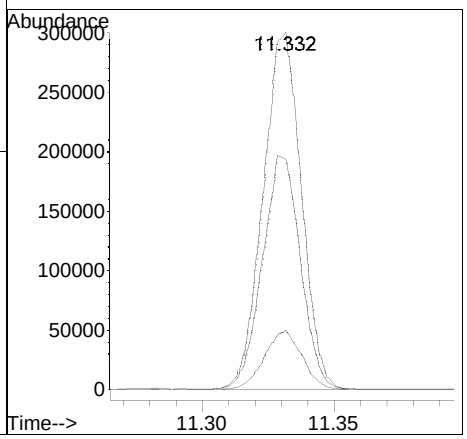


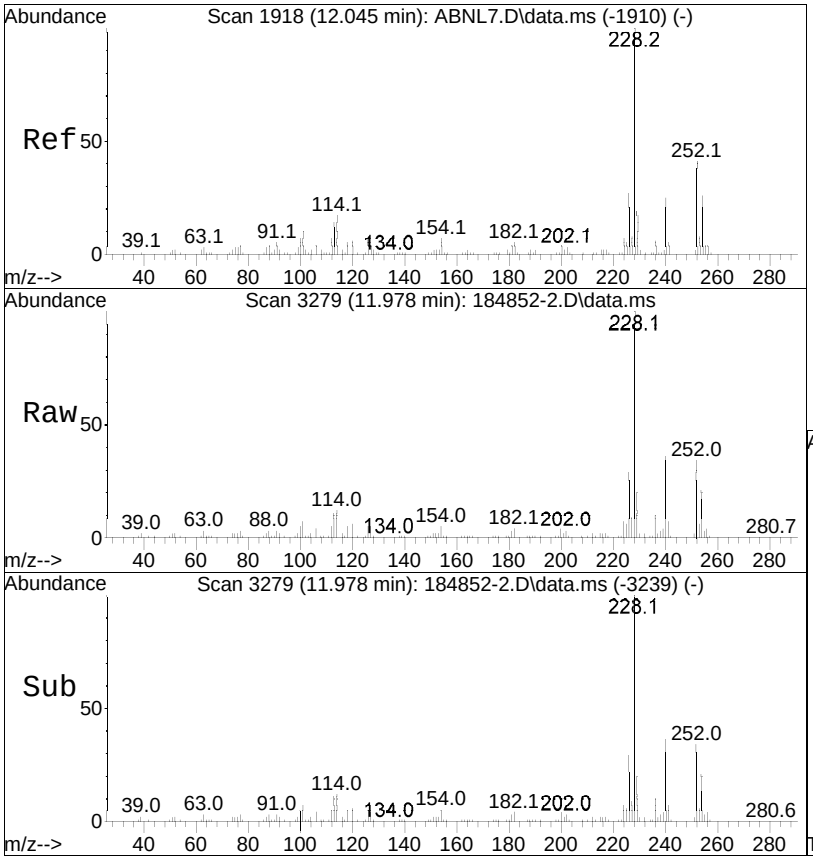


#96
Butyl benzyl phthalate
Concen: 36.74 ug/ml
RT: 11.332 min Scan# 3071
Delta R.T. 0.003 min
Lab File: 184852-2.D
Acq: 5 Dec 2018 5:24 pm

Tgt Ion:149 Resp: 300375

Ion	Ratio	Lower	Upper
149	100		
91	65.2	54.6	81.8
206	16.3	12.5	18.7

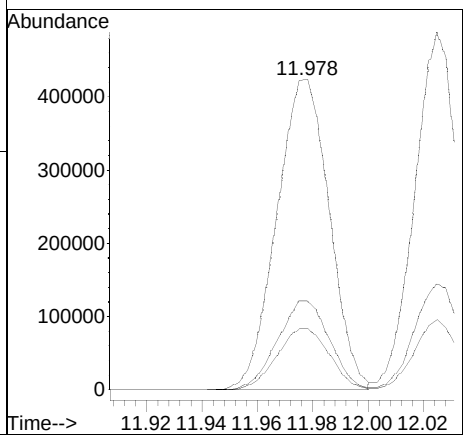


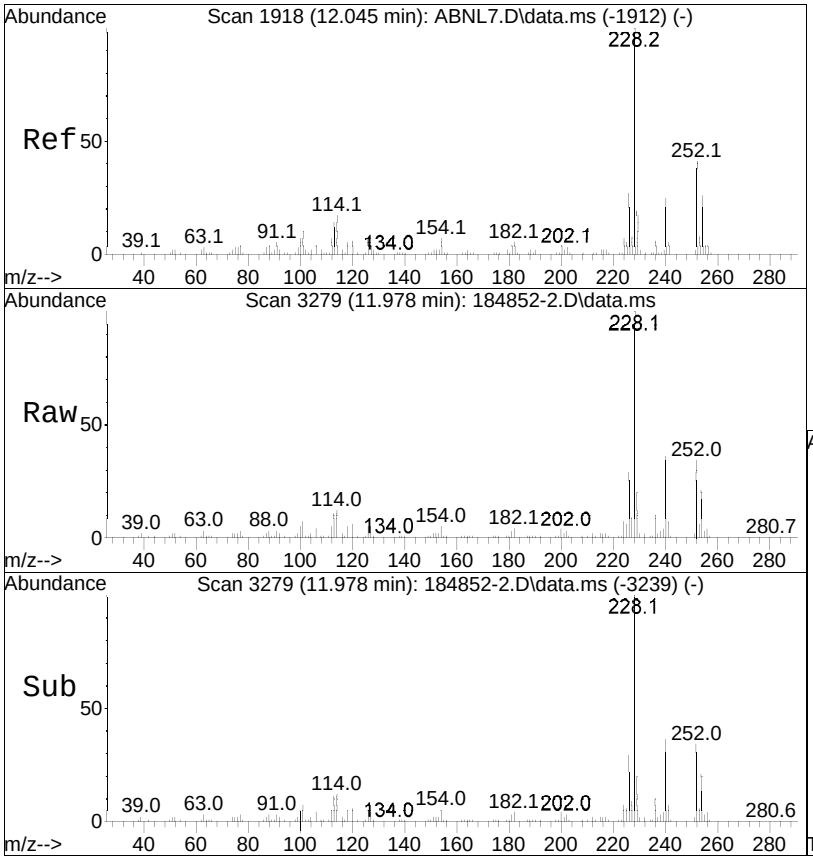


#104
Benzo(a)anthracene
Concen: 30.51 ug/ml
RT: 11.978 min Scan# 3279
Delta R.T. -0.000 min
Lab File: 184852-2.D
Acq: 5 Dec 2018 5:24 pm

Tgt Ion:228 Resp: 558792

Ion	Ratio	Lower	Upper
228	100		
226	28.3	22.2	33.4
229	19.7	15.6	23.4

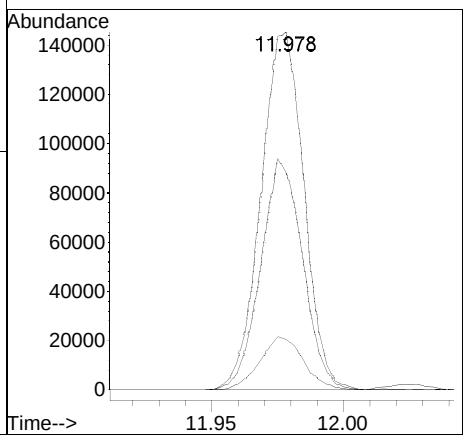


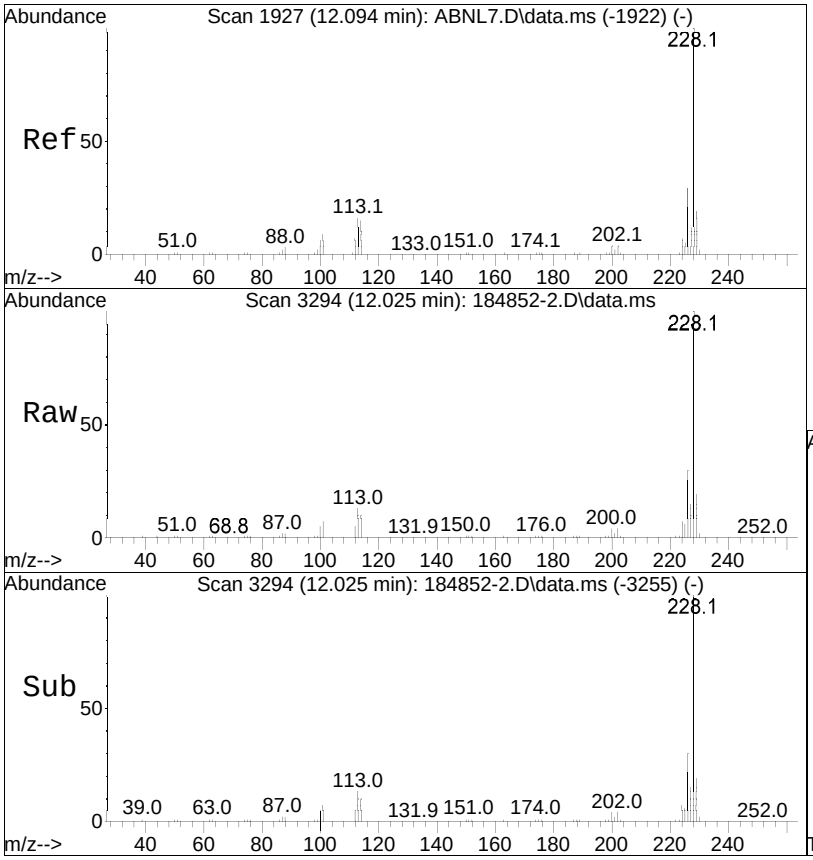


#105
3,3'-Dichlorobenzidine
Concen: 22.74 ug/ml
RT: 11.978 min Scan# 3279
Delta R.T. -0.000 min
Lab File: 184852-2.D
Acq: 5 Dec 2018 5:24 pm

Tgt Ion:252 Resp: 163451

Ion	Ratio	Lower	Upper
252	100		
126	15.3	12.4	18.6
254	63.2	51.8	77.6

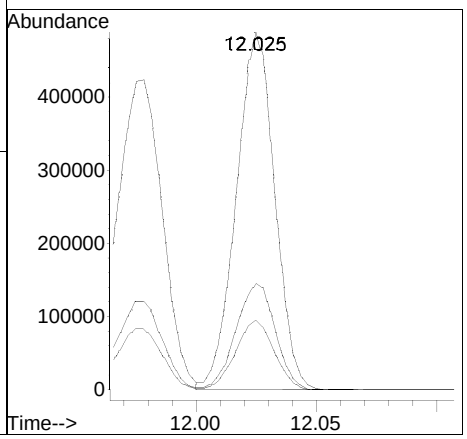


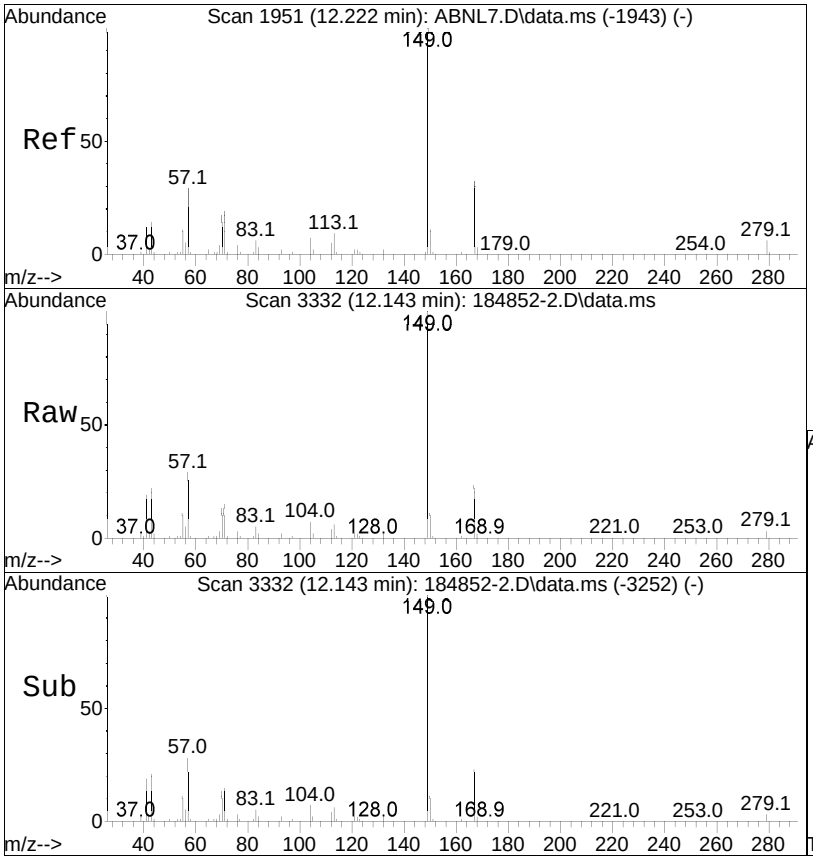


#106
Chrysene
Concen: 30.86 ug/ml
RT: 12.025 min Scan# 3294
Delta R.T. -0.003 min
Lab File: 184852-2.D
Acq: 5 Dec 2018 5:24 pm

Tgt Ion:228 Resp: 541946

Ion	Ratio	Lower	Upper
228	100		
226	30.4	24.3	36.5
229	19.5	15.5	23.3

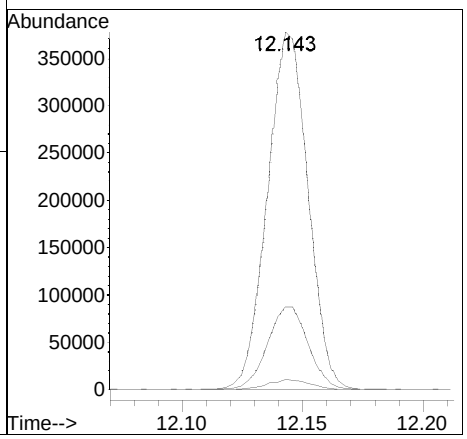


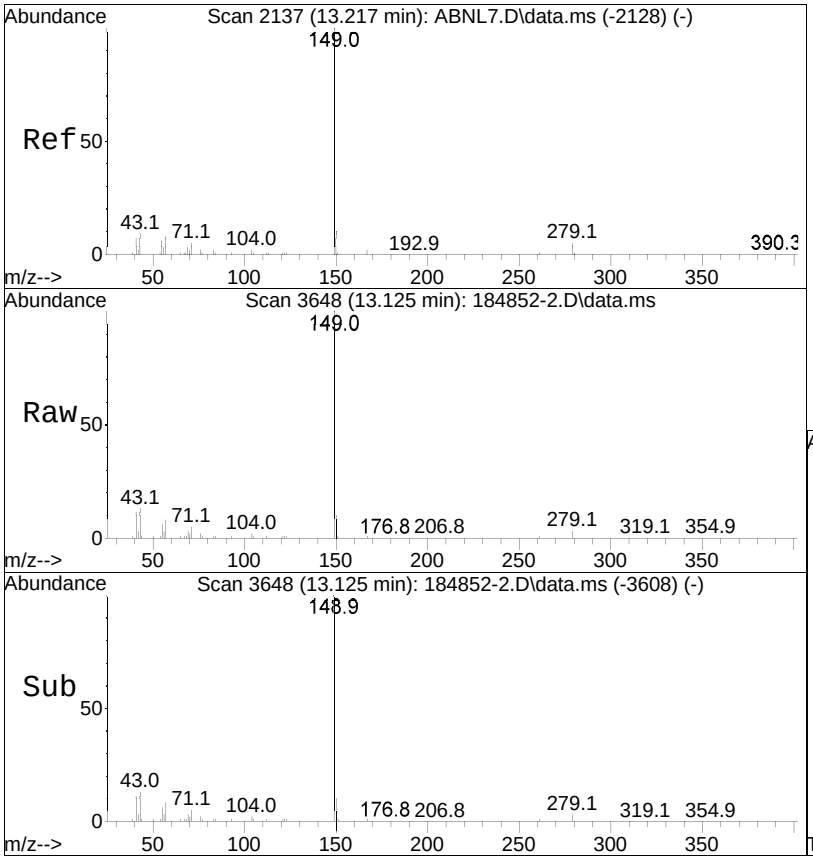


#107
Bis(2-ethylhexyl)phthalate
Concen: 36.68 ug/ml
RT: 12.143 min Scan# 3332
Delta R.T. -0.000 min
Lab File: 184852-2.D
Acq: 5 Dec 2018 5:24 pm

Tgt Ion:149 Resp: 437961

Ion	Ratio	Lower	Upper
149	100		
167	23.5	19.0	28.6
279	2.7	2.0	3.0

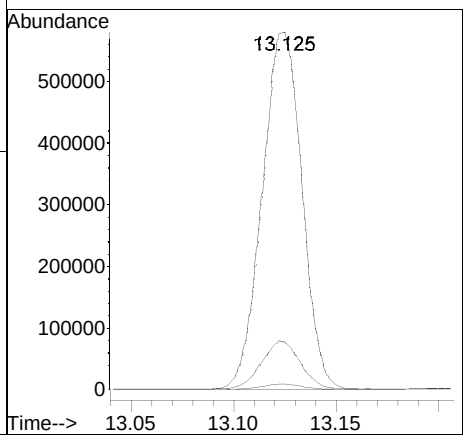


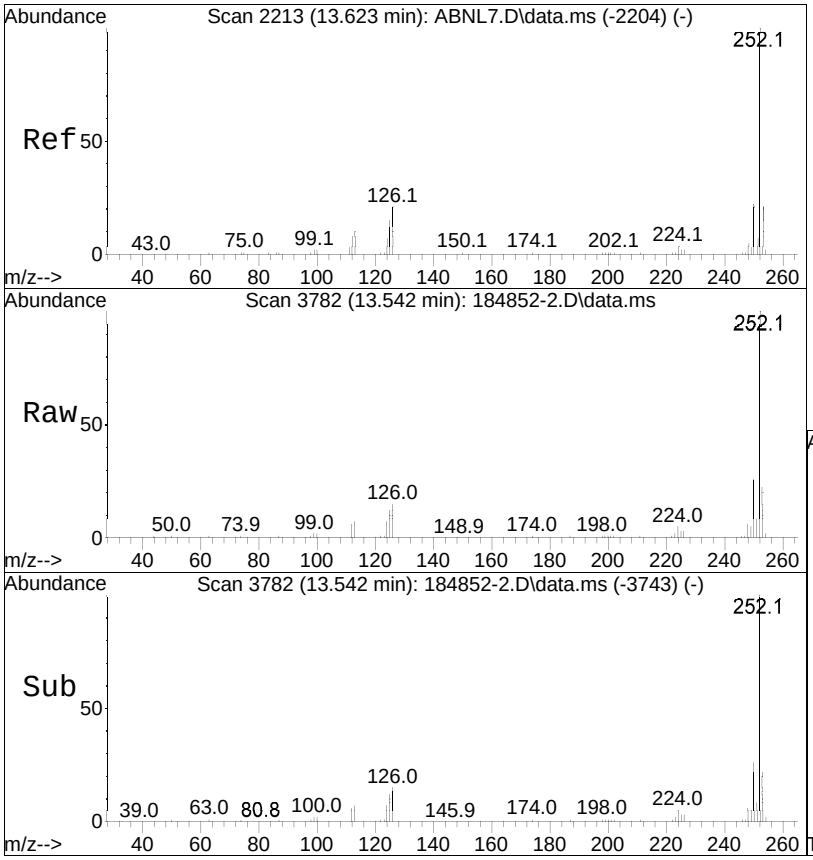


#108
Di-n-octylphthalate
Concen: 39.28 ug/ml
RT: 13.125 min Scan# 3648
Delta R.T. -0.000 min
Lab File: 184852-2.D
Acq: 5 Dec 2018 5:24 pm

Tgt Ion:149 Resp: 773737

Ion	Ratio	Lower	Upper
149	100		
43	13.3	9.0	13.4
167	1.4	1.1	1.7

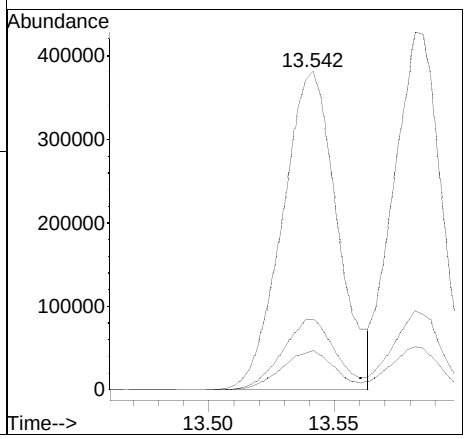


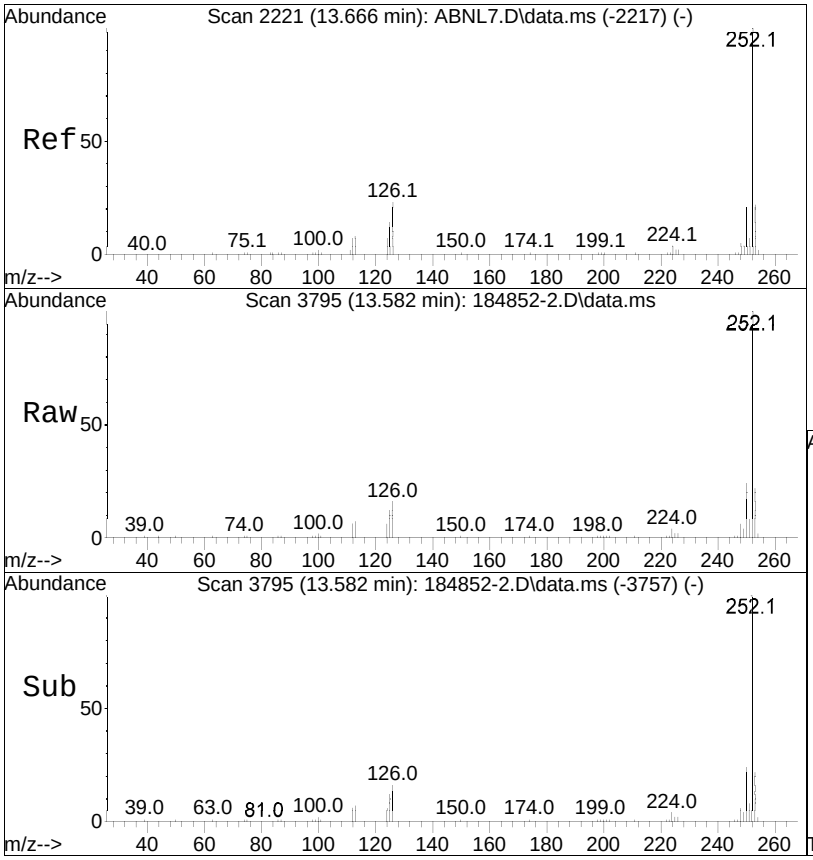


#109
Benzo(b)fluoranthene
Concen: 35.05 ug/ml
RT: 13.542 min Scan# 3782
Delta R.T. -0.003 min
Lab File: 184852-2.D
Acq: 5 Dec 2018 5:24 pm

Tgt Ion:252 Resp: 579540

Ion	Ratio	Lower	Upper
252	100		
125	12.0	11.4	17.0
253	21.3	17.5	26.3

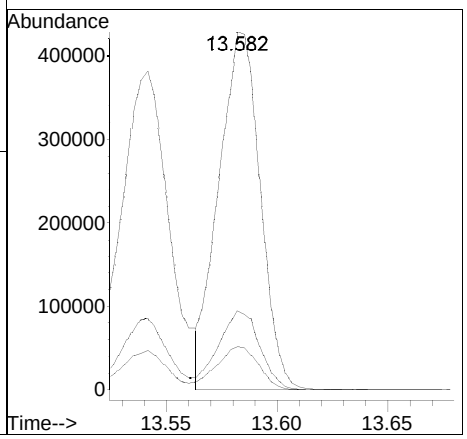


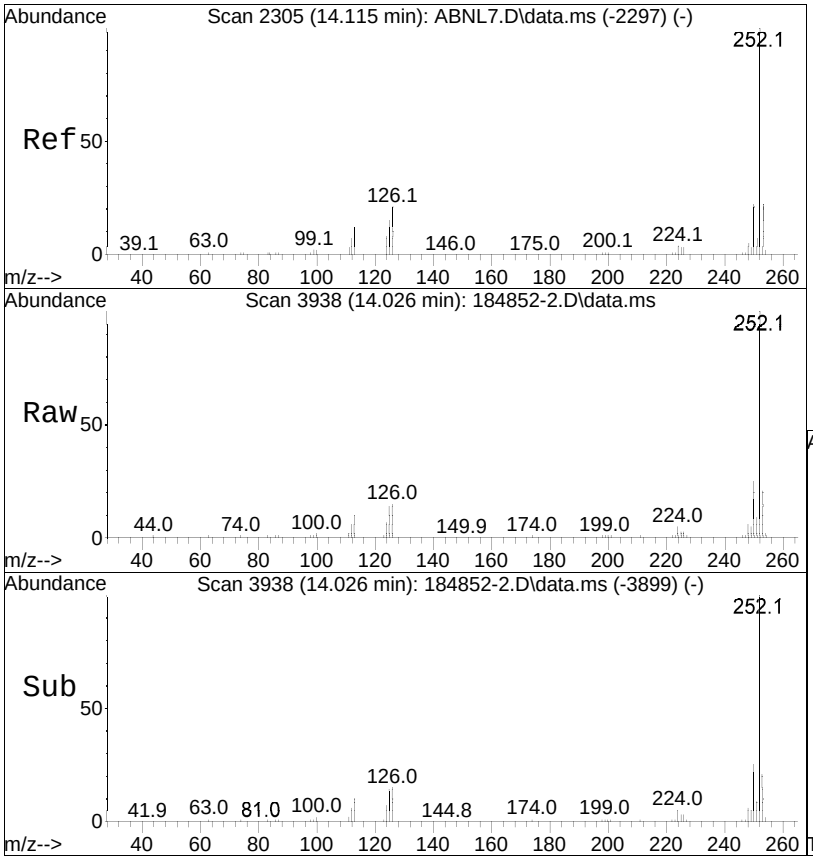


#110
Benzo(k)fluoranthene
Concen: 30.69 ug/ml
RT: 13.582 min Scan# 3795
Delta R.T. -0.006 min
Lab File: 184852-2.D
Acq: 5 Dec 2018 5:24 pm

Tgt Ion:252 Resp: 556268

Ion	Ratio	Lower	Upper
252	100		
125	12.5	11.0	16.6
253	22.5	17.4	26.0

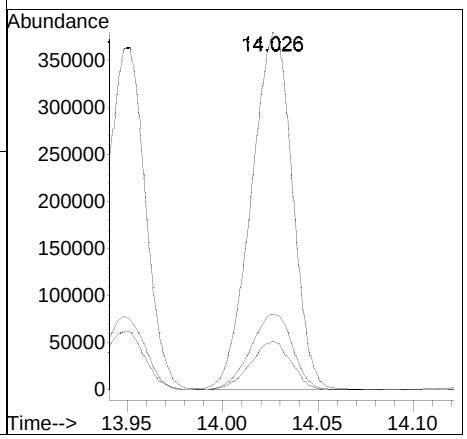


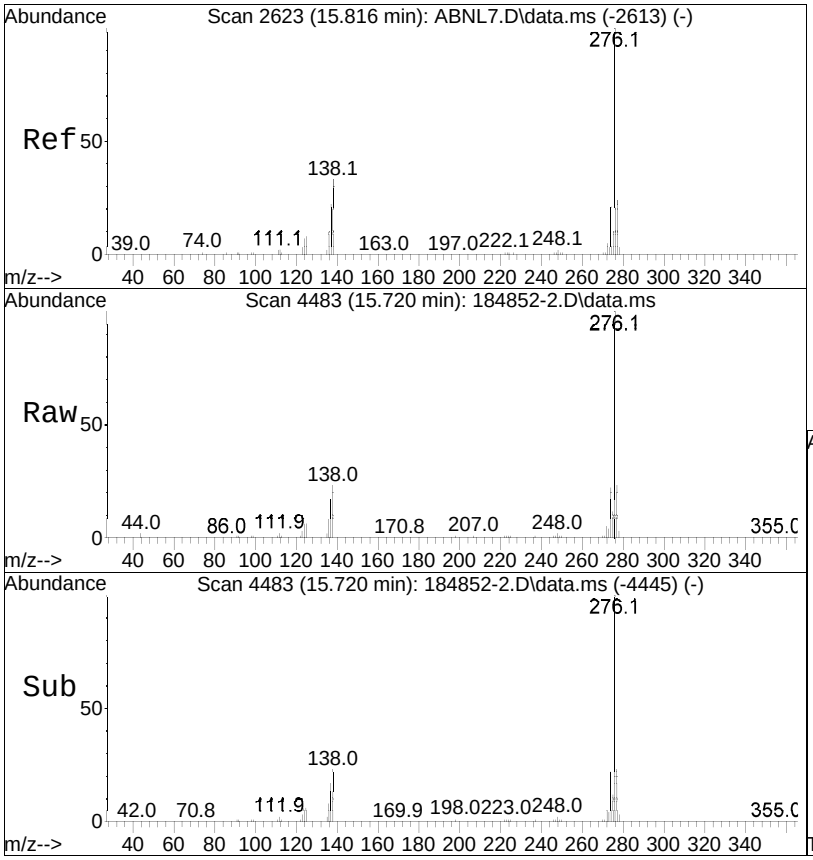


#111
Benzo(a)pyrene
Concen: 34.03 ug/ml
RT: 14.026 min Scan# 3938
Delta R.T. -0.003 min
Lab File: 184852-2.D
Acq: 5 Dec 2018 5:24 pm

Tgt Ion:252 Resp: 567665

Ion	Ratio	Lower	Upper
252	100		
125	13.5	12.4	18.6
253	21.7	17.6	26.4

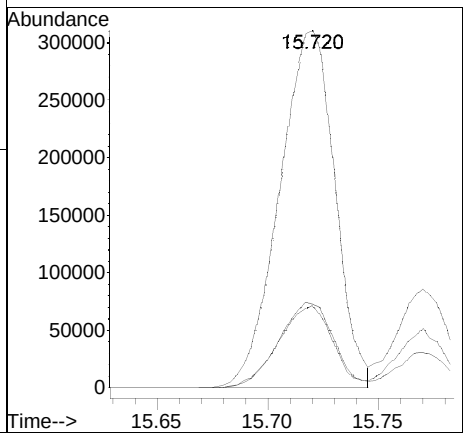


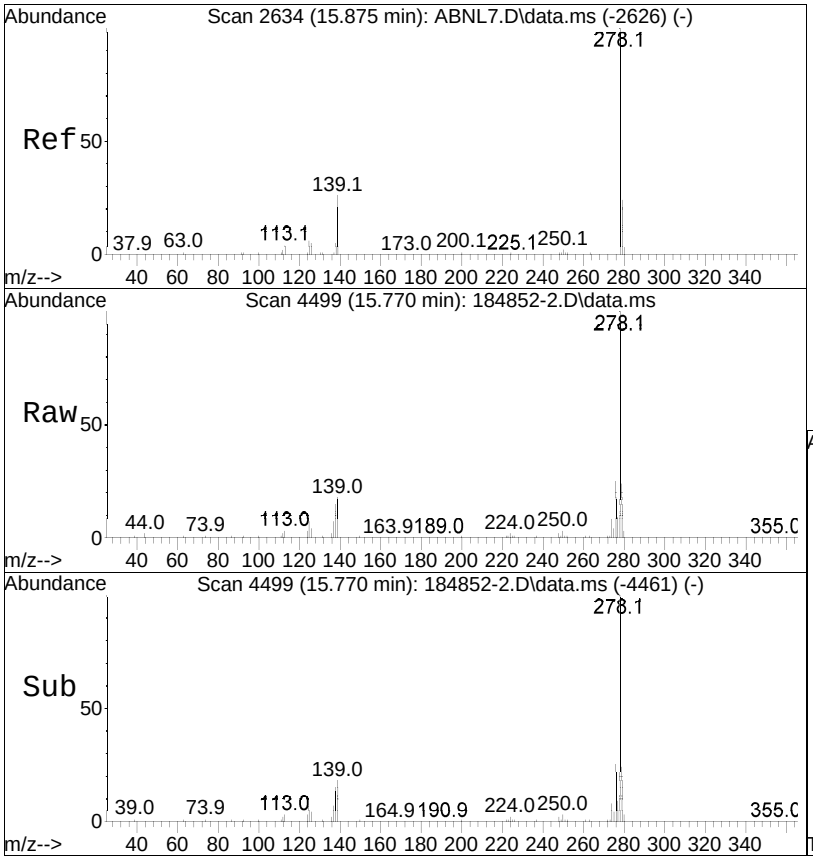


#113
Indeno(1,2,3-cd)pyrene
Concen: 32.70 ug/ml
RT: 15.720 min Scan# 4483
Delta R.T. -0.006 min
Lab File: 184852-2.D
Acq: 5 Dec 2018 5:24 pm

Tgt Ion:276 Resp: 536748

Ion	Ratio	Lower	Upper
276	100		
138	22.9	21.0	31.6
277	23.9	19.1	28.7

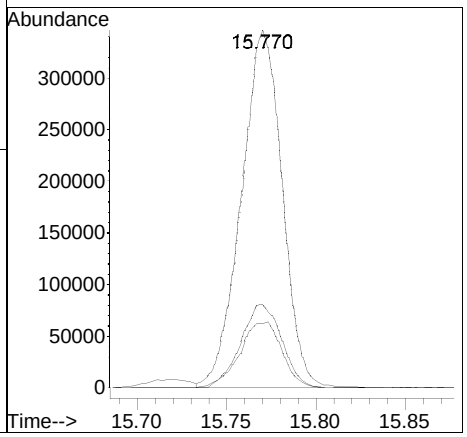


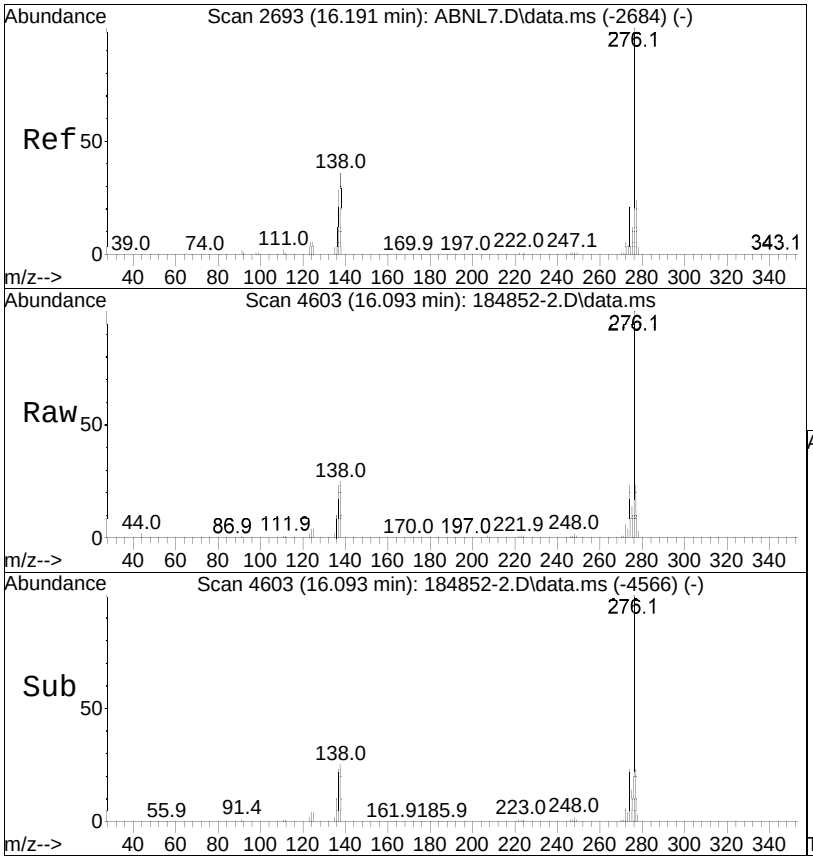


#114
Dibenzo(a,h)anthracene
Concen: 31.63 ug/ml
RT: 15.770 min Scan# 4499
Delta R.T. -0.006 min
Lab File: 184852-2.D
Acq: 5 Dec 2018 5:24 pm

Tgt Ion:278 Resp: 546236

Ion	Ratio	Lower	Upper
278	100		
139	19.1	16.9	25.3
279	23.8	19.2	28.8

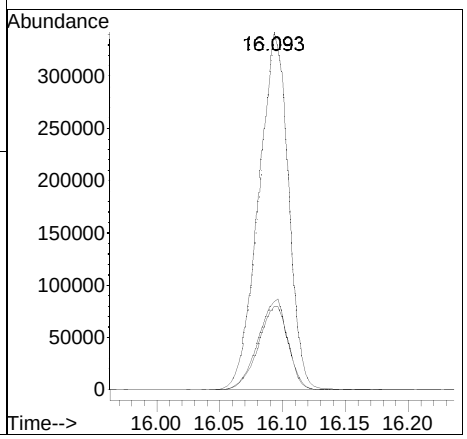




#115
Benzo(ghi)perylene
Concen: 30.39 ug/ml
RT: 16.093 min Scan# 4603
Delta R.T. -0.009 min
Lab File: 184852-2.D
Acq: 5 Dec 2018 5:24 pm

Tgt Ion:276 Resp: 558167

Ion	Ratio	Lower	Upper
276	100		
138	25.2	22.9	34.3
277	23.8	18.9	28.3



Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181205\
Data File : 184852-3.D
Acq On : 5 Dec 2018 5:49 pm
Operator : sv109:jg
Sample : wg1184852-3,32,,ny,eh
Misc : wg1185944,wg1184852,ical15112
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 06 14:44:01 2018
Quant Method : I:\8270\SV109\181205\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 20:09:16 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\181205\ABN1205a.D
: 2 - I:\8270\SV109\181205\ADP1205.D
: 3 - I:\8270\SV109\181205\AP91205.D
Sub List : 8270TCL_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.749	152	113522	40.000	ug/ml	0.00
Standard Area 1 = 124127			Recovery = 91.46%			
27) IS2_1,4-Dichlorobenzen...	4.749	152	113522	40.000	ug/ml	0.00
Standard Area 3 = 124227			Recovery = 91.38%			
34) IS1_Naphthalene-d8	5.989	136	490189	40.000	ug/ml	0.00
Standard Area 1 = 530407			Recovery = 92.42%			
54) IS2_Naphthalene-d8	5.989	136	490189	40.000	ug/ml	0.00
Standard Area 3 = 535508			Recovery = 91.54%			
62) IS1_Acenaphthene-d10	7.699	164	258288	40.000	ug/ml	0.00
Standard Area 1 = 294014			Recovery = 87.85%			
82) IS2_Acenaphthene-d10	7.699	164	258288	40.000	ug/ml	0.00
Standard Area 3 = 298790			Recovery = 86.44%			
85) IS3_Acenaphthene-d10	7.699	164	258288	40.000	ug/ml	0.00
Standard Area 2 = 298886			Recovery = 86.42%			
87) IS1_Phenanthrene-d10	9.135	188	557153	40.000	ug/ml	0.00
Standard Area 1 = 574704			Recovery = 96.95%			
99) IS3_Phenanthrene-d10	9.135	188	557153	40.000	ug/ml	0.00
Standard Area 2 = 592015			Recovery = 94.11%			
103) IS1_Chrysene-d12	11.991	240	572821	40.000	ug/ml	0.00
Standard Area 1 = 594823			Recovery = 96.30%			
112) IS1_Perylene-d12	14.117	264	603306	40.000	ug/ml	0.00
Standard Area 1 = 616042			Recovery = 97.93%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.468	112	127371	36.309	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 130		Recovery = 72.62%			
7) Phenol-d6	4.423	99	159609	36.605	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 130		Recovery = 73.21%			
19) Nitrobenzene-d5	5.290	82	70937	17.294	ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery = 69.18%			
45) 2-Fluorobiphenyl	7.061	172	169127	17.921	ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery = 71.68%			
78) 2,4,6-Tribromophenol	8.466	330	58595	34.297	ug/ml	0.00
Spiked Amount 50.000	Range 30 - 130		Recovery = 68.59%			
95) 4-Terphenyl-d14	10.735	244	212701	16.250	ug/ml	0.00
Spiked Amount 25.000	Range 40 - 140		Recovery = 65.00%			

Data Path : I:\8270\SV109\181205\
Data File : 184852-3.D
Acq On : 5 Dec 2018 5:49 pm
Operator : sv109:jg
Sample : wg1184852-3,32,,ny,eh
Misc : wg1185944,wg1184852,ical15112
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 06 14:44:01 2018
Quant Method : I:\8270\SV109\181205\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 20:09:16 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\181205\ABN1205a.D
: 2 - I:\8270\SV109\181205\ADP1205.D
: 3 - I:\8270\SV109\181205\AP91205.D
Sub List : 8270TCL_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	4.541	128	121128	29.921	ug/ml	95
8) Phenol	4.435	94	137477	29.274	ug/ml	89
9) Bis(2-chloroethyl)ether	4.507	93	93243	24.595	ug/ml	95
14) Bis(2-chloroisopropyl)...	5.044	45	214359	33.612	ug/ml	96
15) 2-Methylphenol	5.032	108	102442	28.920	ug/ml	100
16) Hexachloroethane	5.240	117	44984	23.989	ug/ml	98
17) n-Nitrosodi-n-propylamine	5.169	70	75983	27.594	ug/ml	97
18) 3-Methylphenol/4-Methy...	5.184	108	108993	29.528	ug/ml	99
20) Nitrobenzene	5.308	77	111002	26.500	ug/ml	97
21) Isophorone	5.554	82	201919	26.952	ug/ml	97
22) 2-Nitrophenol	5.625	139	66376	33.673	ug/ml	96
23) 2,4-Dimethylphenol	5.700	107	116840	32.614	ug/ml	99
24) Bis(2-chloroethoxy)met...	5.787	93	131253	27.104	ug/ml#	97
25) 2,4-Dichlorophenol	5.868	162	102684	30.719	ug/ml	98
28) Benzaldehyde	4.311	105	73843	23.395	ug/ml	96
29) Acetophenone	5.150	105	159570	29.566	ug/ml	95
35) Naphthalene	6.011	128	347555	27.198	ug/ml	99
37) 4-Chloroaniline	6.076	65	33684	20.991	ug/ml	83
38) Hexachlorobutadiene	6.157	225	56352	23.683	ug/ml	98
39) p-Chloro-m-cresol	6.577	107	108834	31.748	ug/ml	98
40) 2-Methylnaphthalene	6.692	142	240069	28.243	ug/ml	99
42) Hexachlorocyclopentadiene	6.859	237	71741	25.430	ug/ml	99
43) 2,4,6-Trichlorophenol	6.978	196	78717	31.841	ug/ml	99
44) 2,4,5-Trichlorophenol	7.009	196	84268	31.736	ug/ml	98
46) 2-Chloronaphthalene	7.161	162	228642	28.598	ug/ml	95
47) 2-Nitroaniline	7.270	138	85174	33.694	ug/ml	96
50) Dimethyl phthalate	7.469	163	288980	30.536	ug/ml	100
51) Acenaphthylene	7.559	152	382769	29.744	ug/ml	99
52) 2,6-Dinitrotoluene	7.515	165	63800	32.424	ug/ml	100
59) Caprolactam	6.396	55	70733	35.532	ug/ml	99
60) 1,2,4,5-Tetrachloroben...	6.859	216	108645	27.941	ug/ml	98
61) Biphenyl	7.152	154	288958	29.649	ug/ml	99
63) 3-Nitroaniline	7.668	138	63792	26.749	ug/ml#	95
64) Acenaphthene	7.730	154	216262	27.383	ug/ml	99
65) 2,4-Dinitrophenol	7.773	184	24561	21.916	ug/ml	95
66) Dibenzofuran	7.901	168	340446	27.480	ug/ml	97

Data Path : I:\8270\SV109\181205\
Data File : 184852-3.D
Acq On : 5 Dec 2018 5:49 pm
Operator : sv109:jg
Sample : wg1184852-3,32,,ny,eh
Misc : wg1185944,wg1184852,ical15112
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 06 14:44:01 2018
Quant Method : I:\8270\SV109\181205\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 20:09:16 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV109\181205\ABN1205a.D
: 2 - I:\8270\SV109\181205\ADP1205.D
: 3 - I:\8270\SV109\181205\AP91205.D
Sub List : 8270TCL_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
67) 2,4-Dinitrotoluene	7.904	165	89494	32.219	ug/ml	92
68) 4-Nitrophenol	7.857	65	60384	30.436	ug/ml	95
70) 2,3,4,6-Tetrachlorophenol	8.031	232	70645	27.824	ug/ml	100
71) Diethyl phthalate	8.162	149	313301	30.163	ug/ml	100
72) Fluorene	8.233	166	275289	28.757	ug/ml	98
73) 4-Chlorophenyl phenyl ...	8.249	204	132012	28.514	ug/ml	99
74) 4-Nitroaniline	8.258	138	76446	32.346	ug/ml	93
75) 4,6-Dinitro-o-cresol	8.295	198	49534	31.594	ug/ml	95
76) NDPA/DPA	8.364	169	244245	30.093	ug/ml	99
79) 4-Bromophenyl phenyl e...	8.718	248	79106	28.002	ug/ml	98
80) Hexachlorobenzene	8.771	284	91166	26.032	ug/ml	99
81) Pentachlorophenol	8.967	266	46995	22.730	ug/ml	97
86) Atrazine	8.901	200	82773	36.789	ug/ml	99
88) Phenanthrene	9.159	178	422640	26.849	ug/ml	99
89) Anthracene	9.206	178	436362	27.931	ug/ml	99
90) Carbazole	9.374	167	414977	28.561	ug/ml	99
91) Di-n-butylphthalate	9.756	149	553892	30.530	ug/ml	100
92) Fluoranthene	10.313	202	483292	29.020	ug/ml	97
94) Pyrene	10.536	202	504884	28.842	ug/ml	99
96) Butyl benzyl phthalate	11.329	149	262587	33.291	ug/ml	98
104) Benzo(a)anthracene	11.975	228	492178	28.006	ug/ml	99
105) 3,3'-Dichlorobenzidine	11.975	252	151647	21.988	ug/ml	100
106) Chrysene	12.025	228	472034	28.009	ug/ml	99
107) Bis(2-ethylhexyl)phtha...	12.143	149	386326	33.716	ug/ml	100
108) Di-n-octylphthalate	13.122	149	672536	35.581	ug/ml	95
109) Benzo(b)fluoranthene	13.539	252	487862	30.747	ug/ml	98
110) Benzo(k)fluoranthene	13.579	252	495868	28.512	ug/ml	98
111) Benzo(a)pyrene	14.024	252	484759	30.288	ug/ml	97
113) Indeno(1,2,3-cd)pyrene	15.717	276	454732	29.598	ug/ml	97
114) Dibenzo(a,h)anthracene	15.770	278	466246	28.848	ug/ml	97
115) Benzo(ghi)perylene	16.090	276	478618	27.842	ug/ml	96

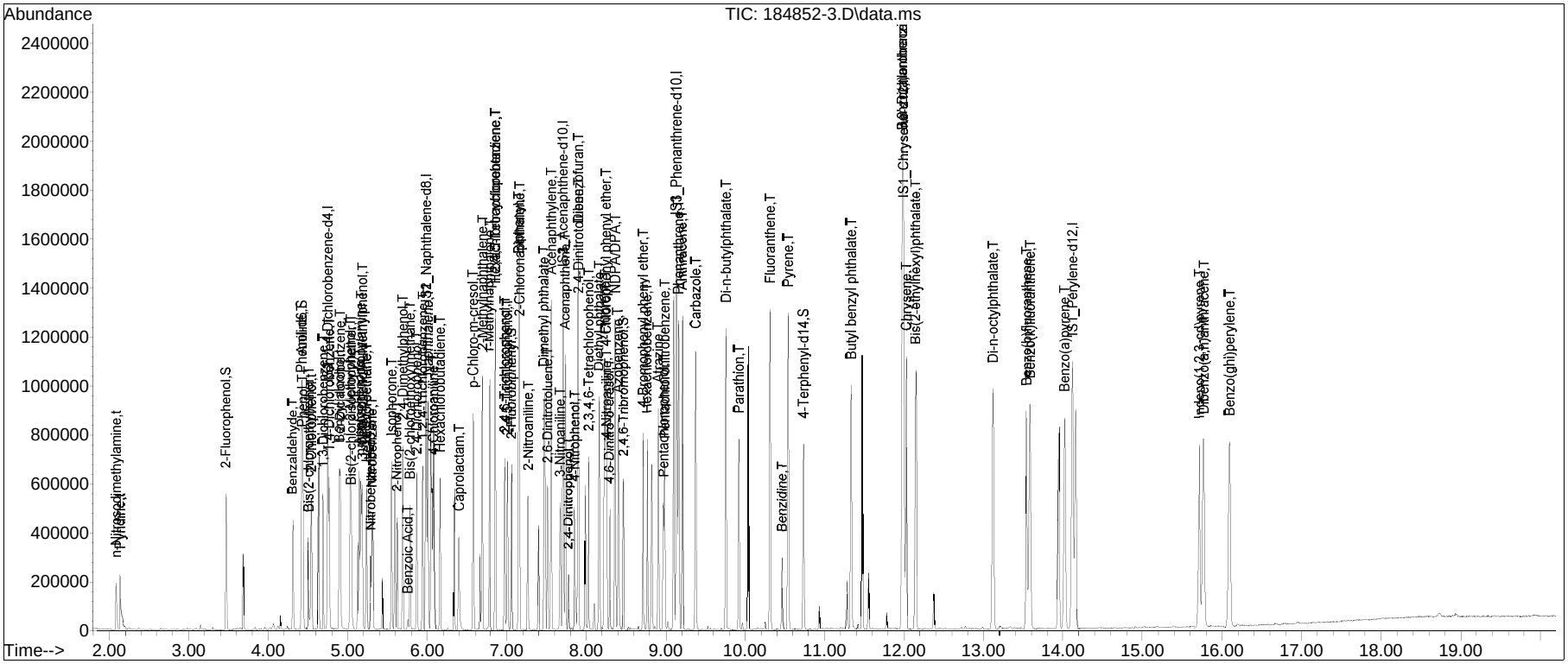
(#) = qualifier out of range (m) = manual integration (+) = signals summed

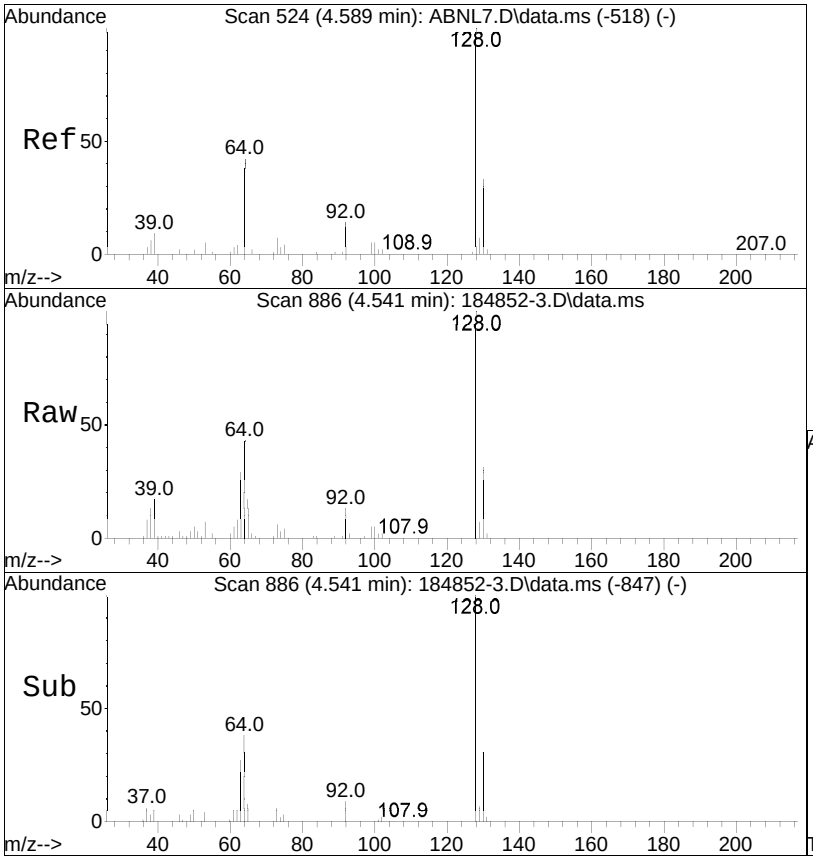
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV109\181205\
Data File : 184852-3.D
Acq On : 5 Dec 2018 5:49 pm
Operator : sv109:jg
Sample : wg1184852-3,32,,ny,eh
Misc : wg1185944,wg1184852,ical15112
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 06 14:44:01 2018
Quant Method : I:\8270\SV109\181205\FS1801003nSV109.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Wed Dec 05 20:09:16 2018
Response via : Initial Calibration

Sub List : 8270TCL_REV1 - TCL/CT/MA\AP91205.D••

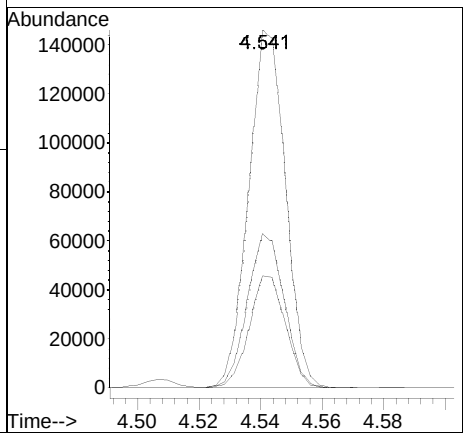


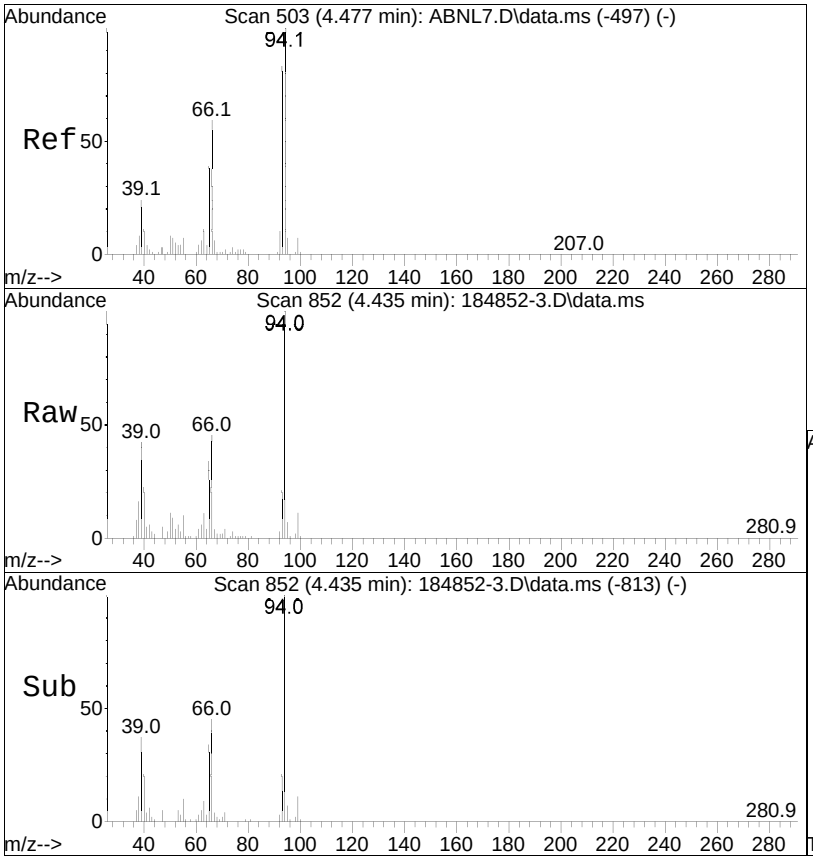


#6
2-Chlorophenol
Concen: 29.92 ug/ml
RT: 4.541 min Scan# 886
Delta R.T. -0.003 min
Lab File: 184852-3.D
Acq: 5 Dec 2018 5:49 pm

Tgt Ion:128 Resp: 121128

Ion	Ratio	Lower	Upper
128	100		
64	43.1	38.1	57.1
130	31.0	25.7	38.5

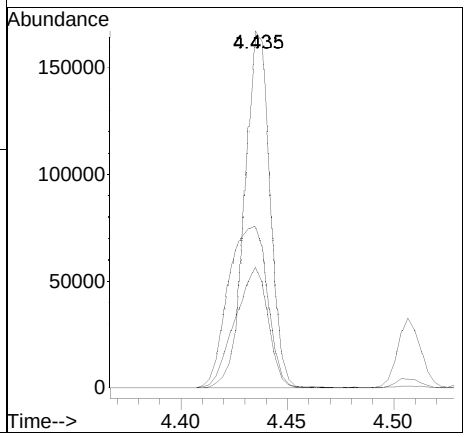


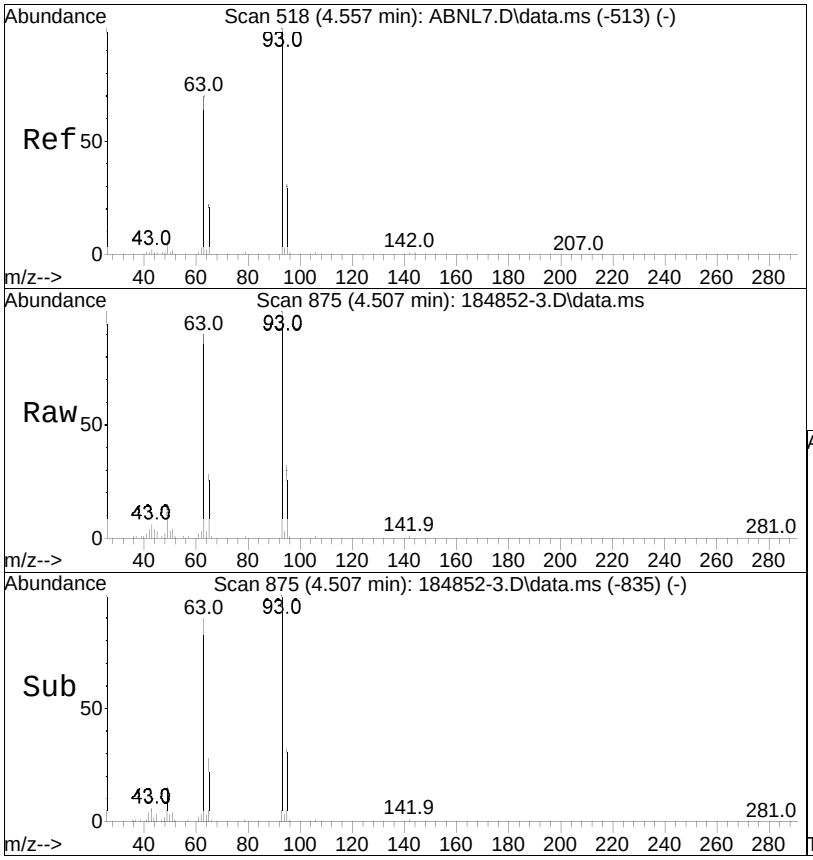


#8
Phenol
Concen: 29.27 ug/ml
RT: 4.435 min Scan# 852
Delta R.T. -0.003 min
Lab File: 184852-3.D
Acq: 5 Dec 2018 5:49 pm

Tgt Ion: 94 Resp: 137477

Ion	Ratio	Lower	Upper
94	100		
65	44.2	40.7	61.1
66	70.1	64.1	96.1

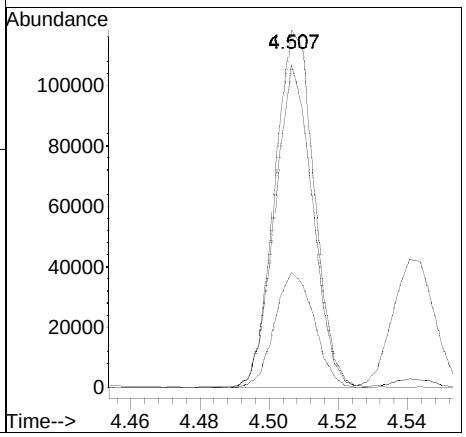


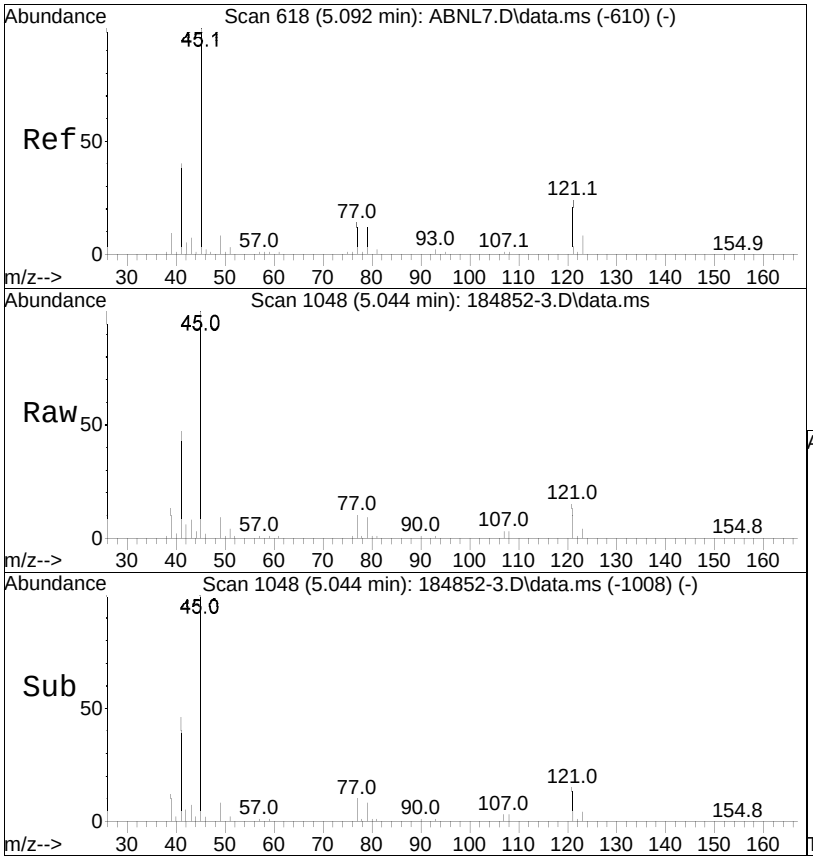


#9
Bis(2-chloroethyl)ether
Concen: 24.59 ug/ml
RT: 4.507 min Scan# 875
Delta R.T. 0.000 min
Lab File: 184852-3.D
Acq: 5 Dec 2018 5:49 pm

Tgt Ion: 93 Resp: 93243

Ion	Ratio	Lower	Upper
93	100		
63	86.7	73.7	110.5
95	32.6	26.9	40.3

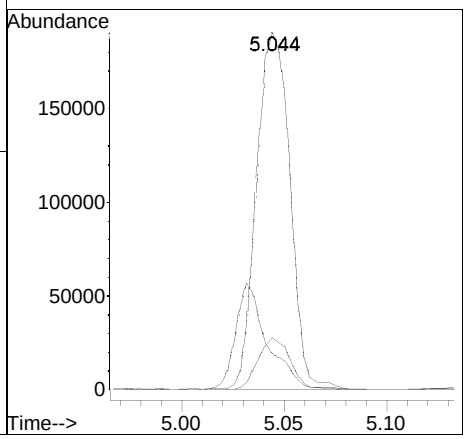


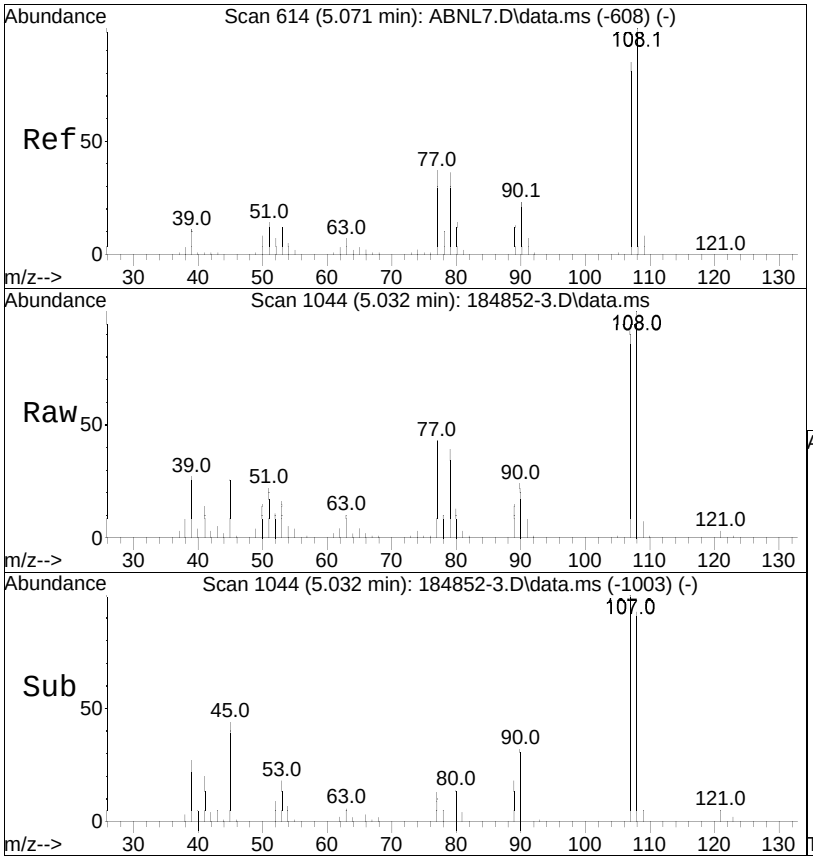


#14
Bis(2-chloroisopropyl)ether
Concen: 33.61 ug/ml
RT: 5.044 min Scan# 1048
Delta R.T. 0.000 min
Lab File: 184852-3.D
Acq: 5 Dec 2018 5:49 pm

Tgt Ion: 45 Resp: 214359

Ion	Ratio	Lower	Upper
45	100		
121	14.0	12.6	19.0
77	28.5	24.6	37.0

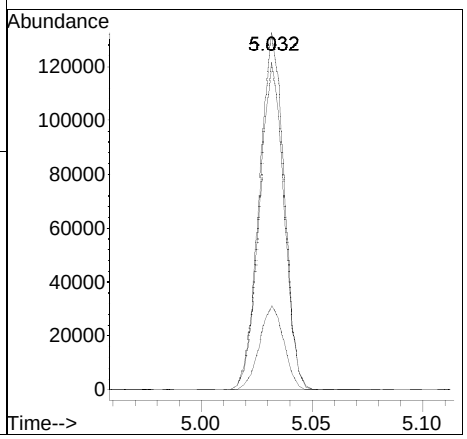


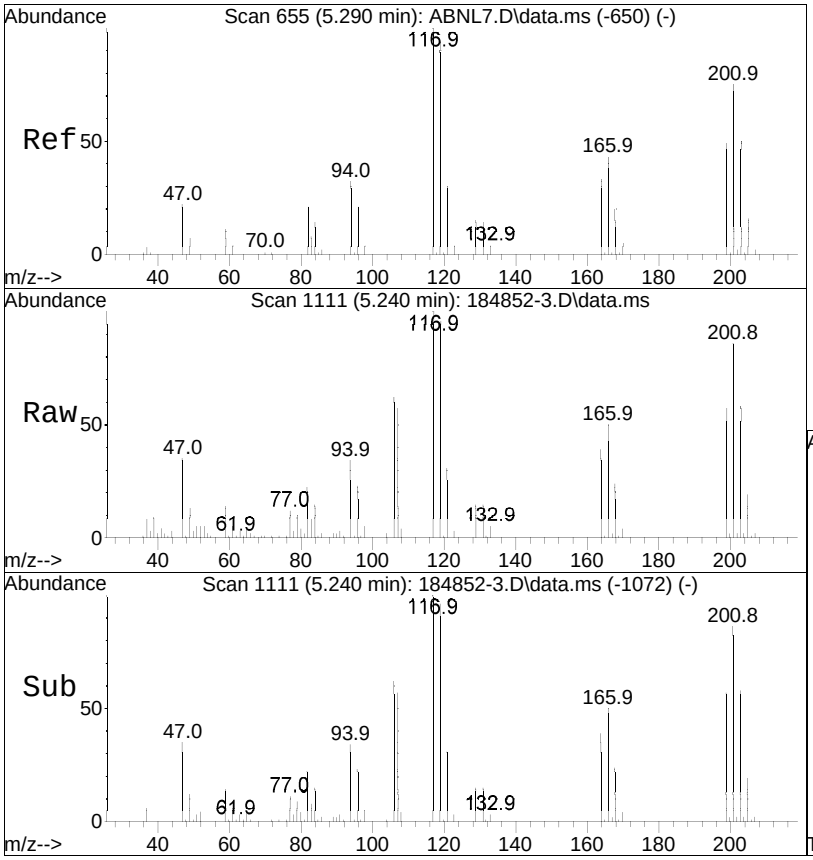


#15
2-Methylphenol
Concen: 28.92 ug/ml
RT: 5.032 min Scan# 1044
Delta R.T. 0.003 min
Lab File: 184852-3.D
Acq: 5 Dec 2018 5:49 pm

Tgt Ion:108 Resp: 102442

Ion	Ratio	Lower	Upper
108	100		
107	90.9	72.6	108.8
90	23.4	19.2	28.8

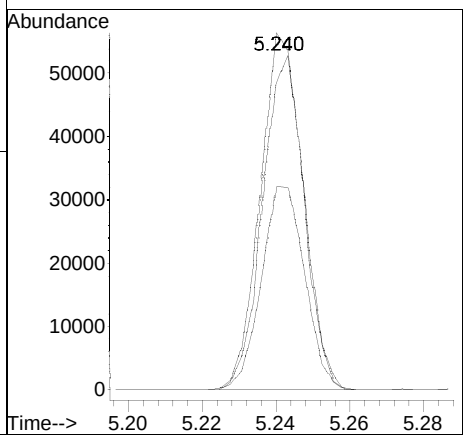


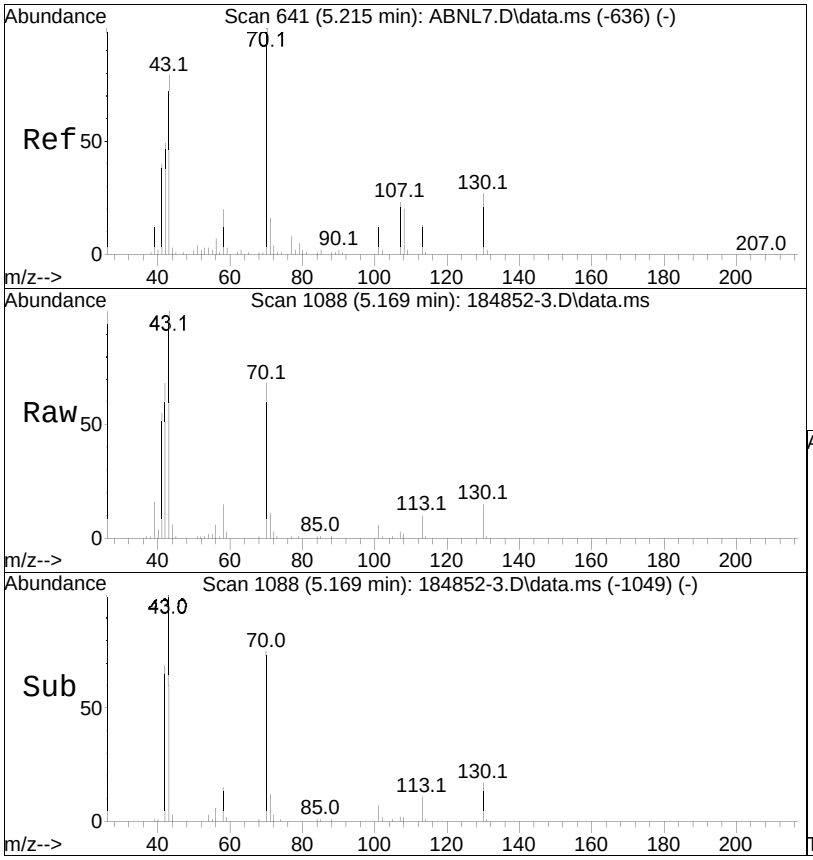


#16
Hexachloroethane
Concen: 23.99 ug/ml
RT: 5.240 min Scan# 1111
Delta R.T. -0.003 min
Lab File: 184852-3.D
Acq: 5 Dec 2018 5:49 pm

Tgt Ion:117 Resp: 44984

Ion	Ratio	Lower	Upper
117	100		
201	92.7	72.7	109.1
199	58.4	46.2	69.2

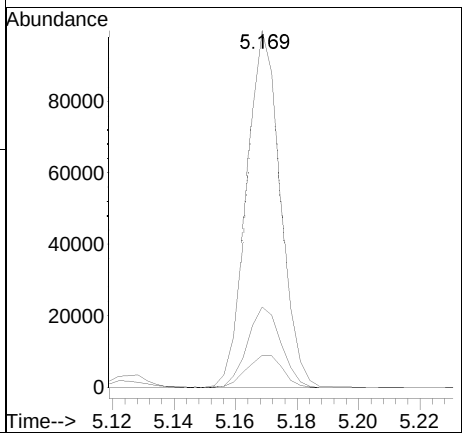


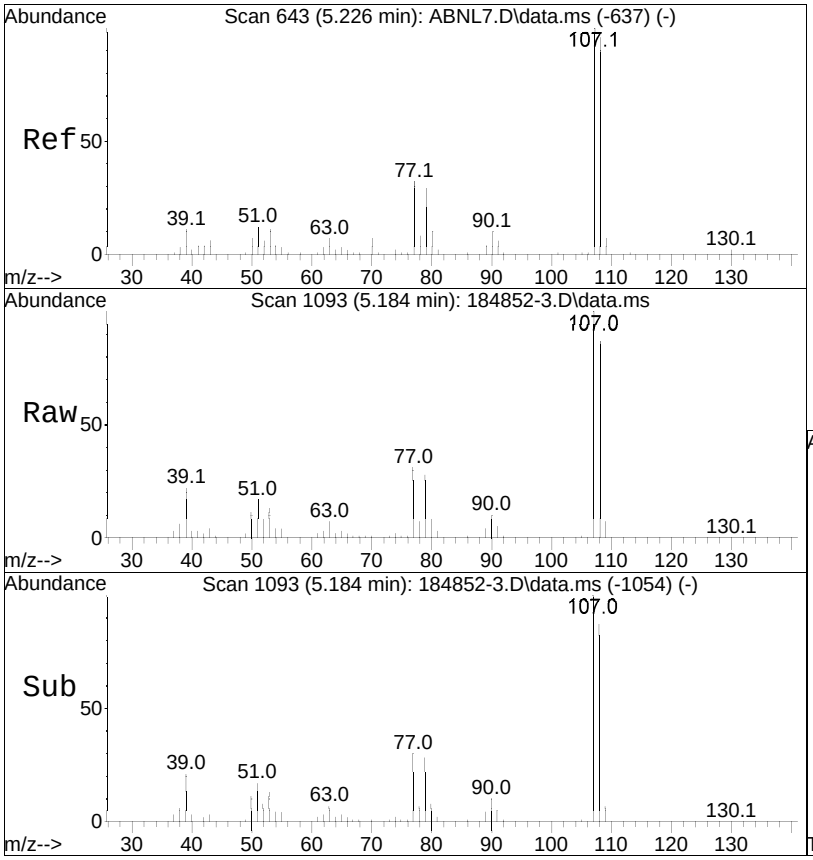


#17
n-Nitrosodi-n-propylamine
Concen: 27.59 ug/ml
RT: 5.169 min Scan# 1088
Delta R.T. -0.003 min
Lab File: 184852-3.D
Acq: 5 Dec 2018 5:49 pm

Tgt Ion: 70 Resp: 75983

Ion	Ratio	Lower	Upper
70	100		
130	22.5	16.6	24.8
101	9.8	7.4	11.0

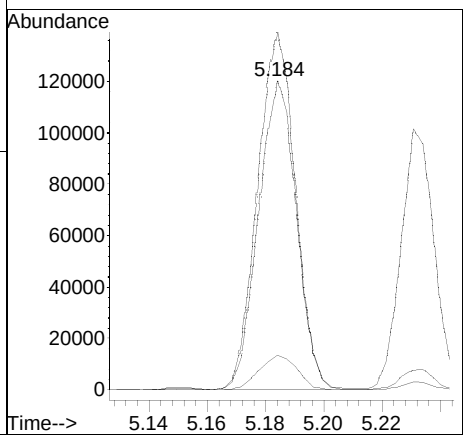


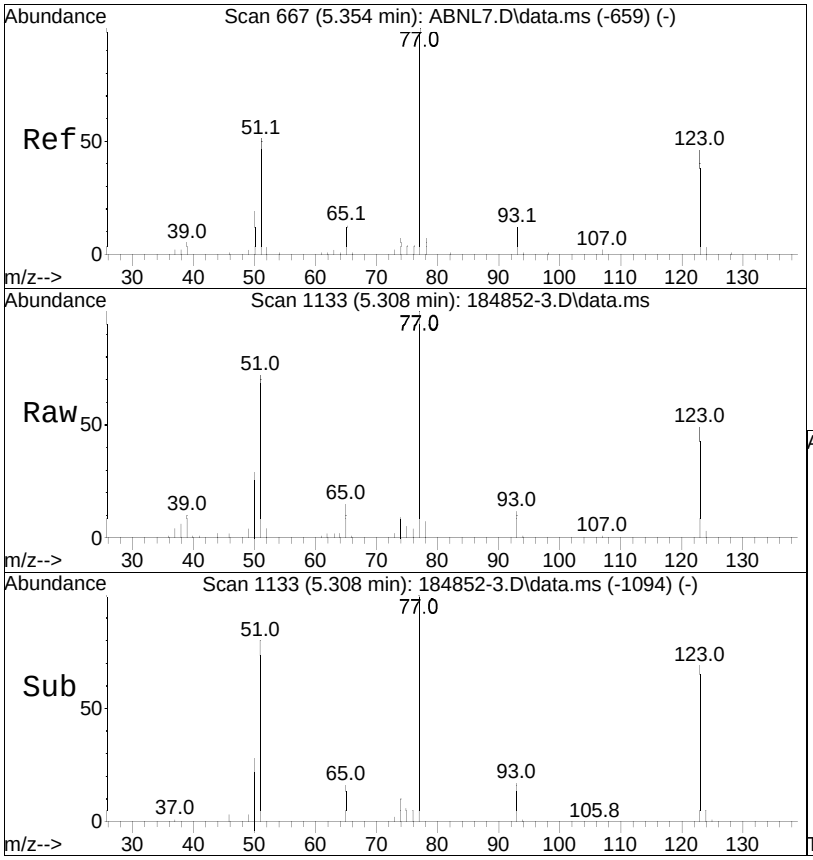


#18
3-Methylphenol/4-Methylphenol
Concen: 29.53 ug/ml
RT: 5.184 min Scan# 1093
Delta R.T. -0.003 min
Lab File: 184852-3.D
Acq: 5 Dec 2018 5:49 pm

Tgt Ion:108 Resp: 108993

Ion	Ratio	Lower	Upper
108	100		
107	115.2	91.0	136.6
90	11.2	8.7	13.1

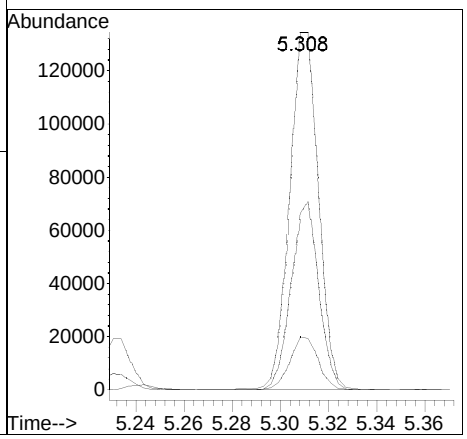


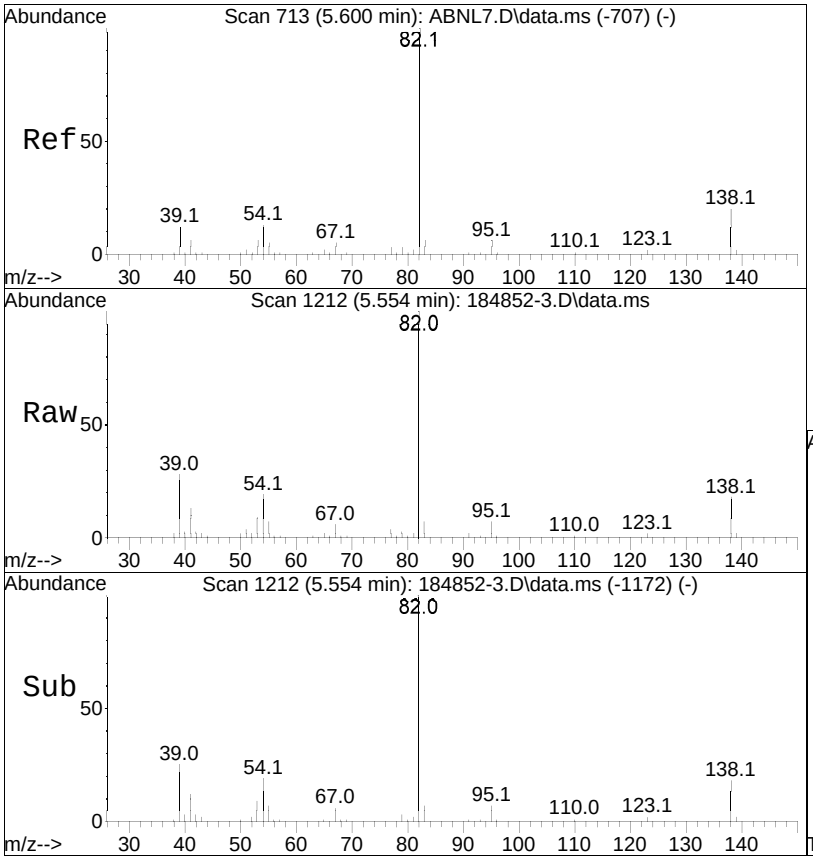


#20
Nitrobenzene
Concen: 26.50 ug/ml
RT: 5.308 min Scan# 1133
Delta R.T. -0.003 min
Lab File: 184852-3.D
Acq: 5 Dec 2018 5:49 pm

Tgt Ion: 77 Resp: 111002

Ion	Ratio	Lower	Upper
77	100		
123	50.5	38.5	57.7
65	14.9	11.4	17.0

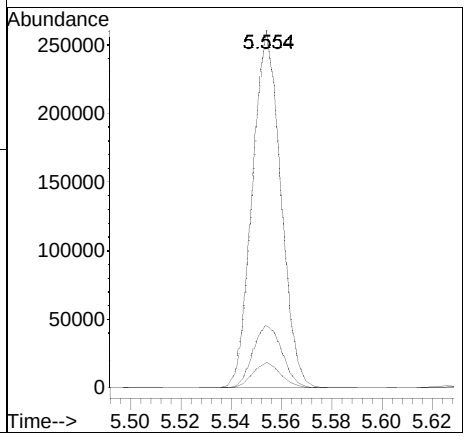


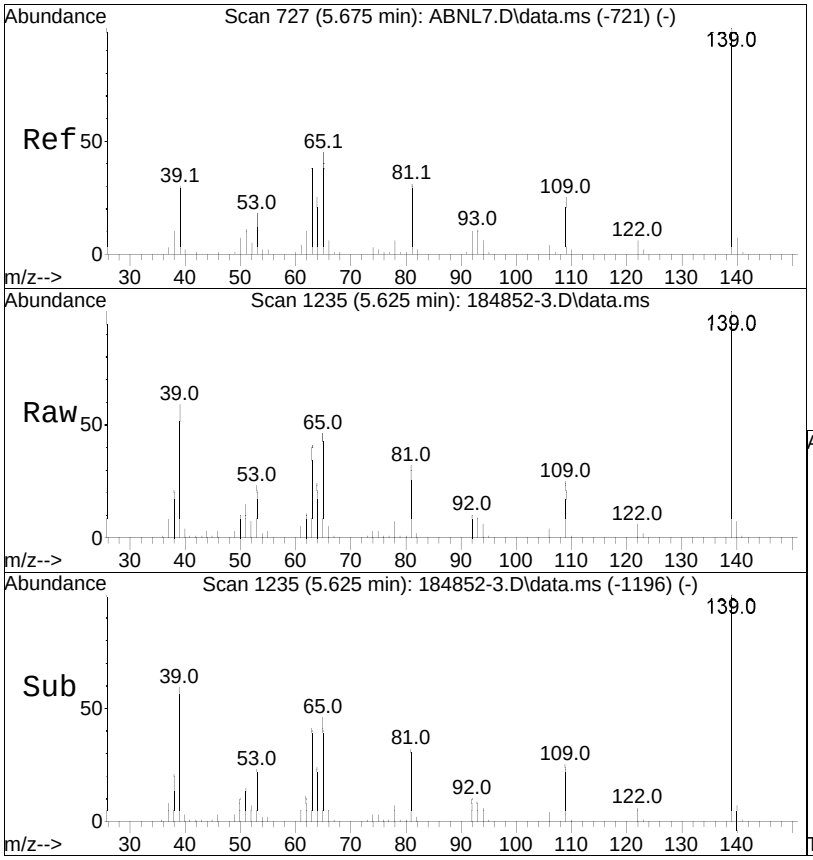


#21
Isophorone
Concen: 26.95 ug/ml
RT: 5.554 min Scan# 1212
Delta R.T. 0.000 min
Lab File: 184852-3.D
Acq: 5 Dec 2018 5:49 pm

Tgt Ion: 82 Resp: 201919

Ion	Ratio	Lower	Upper
82	100		
138	18.2	13.6	20.4
95	7.4	5.1	7.7

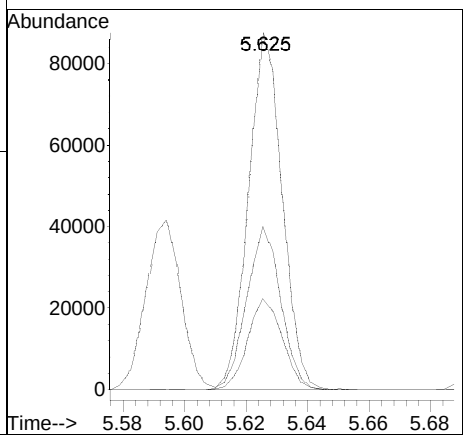


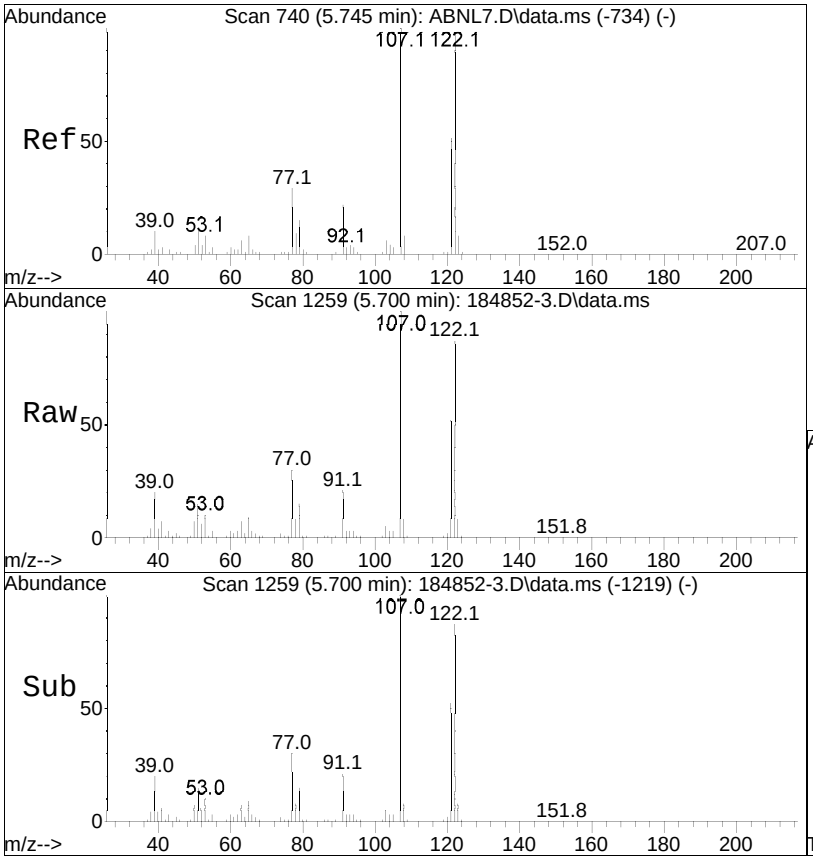


#22
2-Nitrophenol
Concen: 33.67 ug/ml
RT: 5.625 min Scan# 1235
Delta R.T. -0.003 min
Lab File: 184852-3.D
Acq: 5 Dec 2018 5:49 pm

Tgt Ion:139 Resp: 66376

Ion	Ratio	Lower	Upper
139	100		
109	26.4	19.8	29.6
65	46.4	39.6	59.4

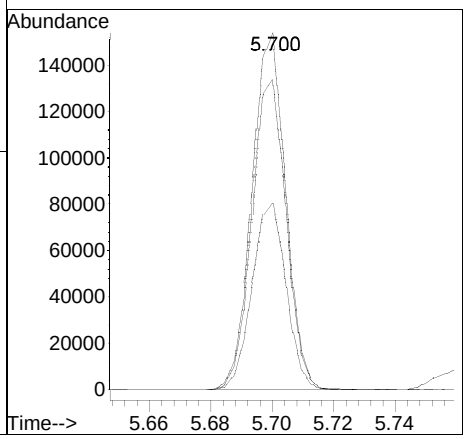


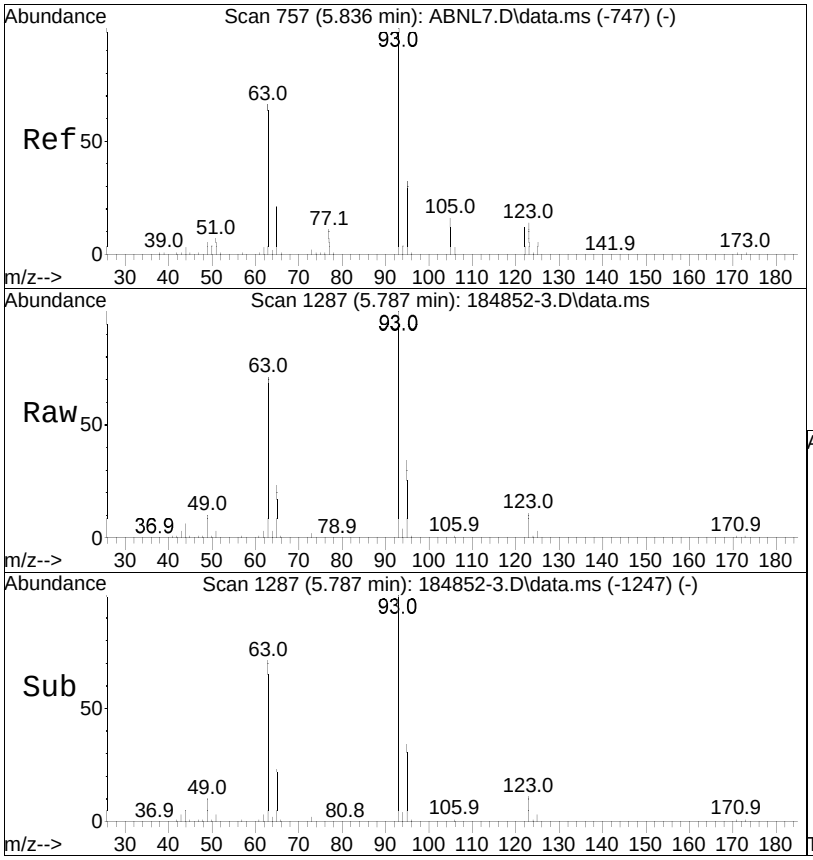


#23
2,4-Dimethylphenol
Concen: 32.61 ug/ml
RT: 5.700 min Scan# 1259
Delta R.T. 0.000 min
Lab File: 184852-3.D
Acq: 5 Dec 2018 5:49 pm

Tgt Ion:107 Resp: 116840

Ion	Ratio	Lower	Upper
107	100		
121	53.1	43.0	64.4
122	88.3	71.8	107.8

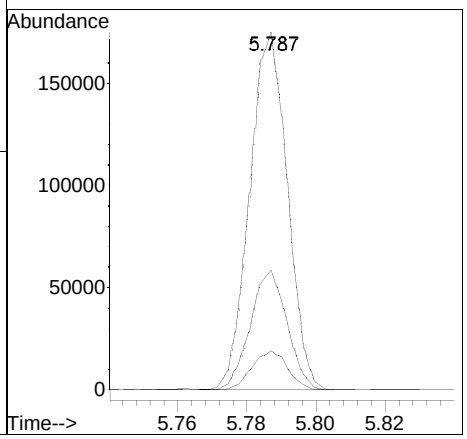


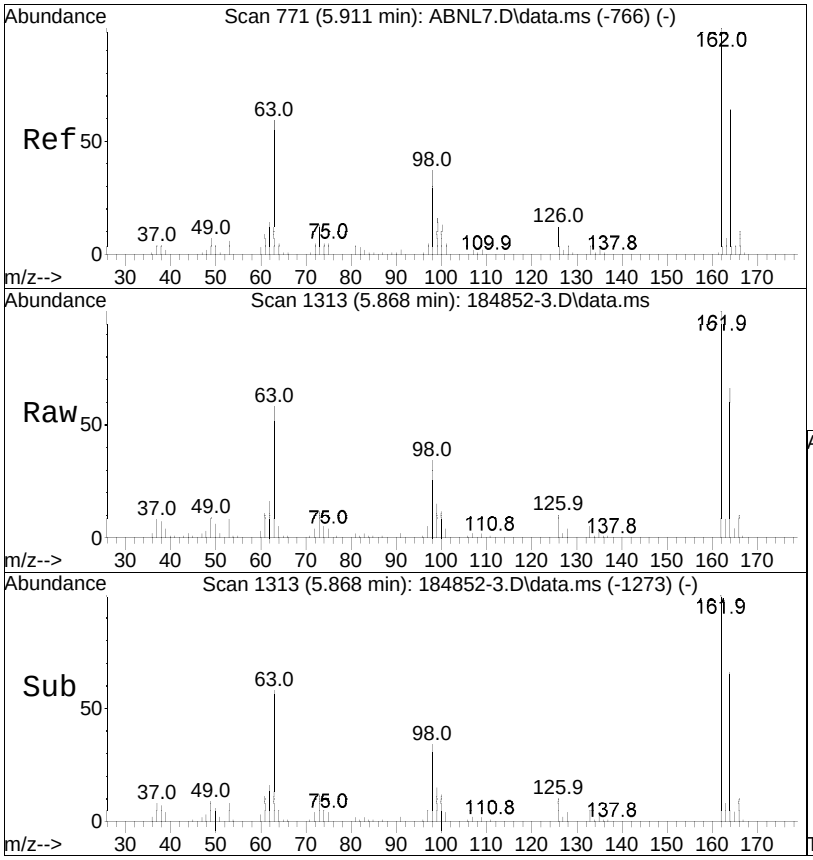


#24
Bis(2-chloroethoxy)methane
Concen: 27.10 ug/ml
RT: 5.787 min Scan# 1287
Delta R.T. 0.000 min
Lab File: 184852-3.D
Acq: 5 Dec 2018 5:49 pm

Tgt Ion: 93 Resp: 131253

Ion	Ratio	Lower	Upper
93	100		
95	32.7	26.6	40.0
123	10.5	11.0	16.4#

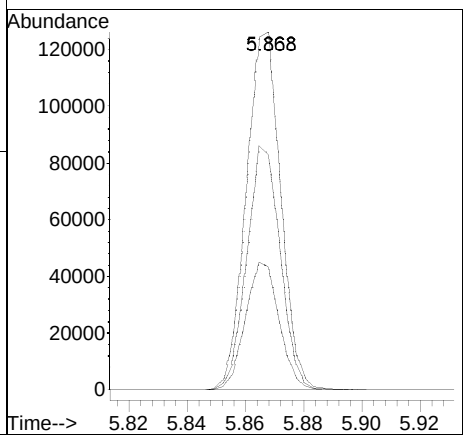


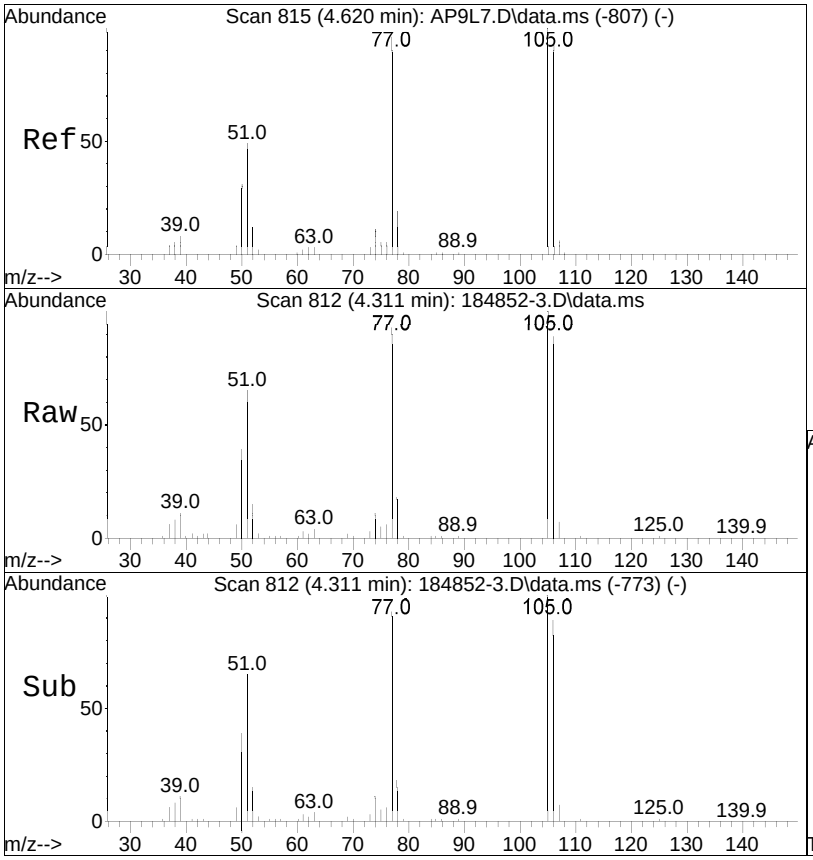


#25
2,4-Dichlorophenol
Concen: 30.72 ug/ml
RT: 5.868 min Scan# 1313
Delta R.T. 0.000 min
Lab File: 184852-3.D
Acq: 5 Dec 2018 5:49 pm

Tgt Ion:162 Resp: 102684

Ion	Ratio	Lower	Upper
162	100		
164	66.2	51.6	77.4
98	35.0	29.4	44.2

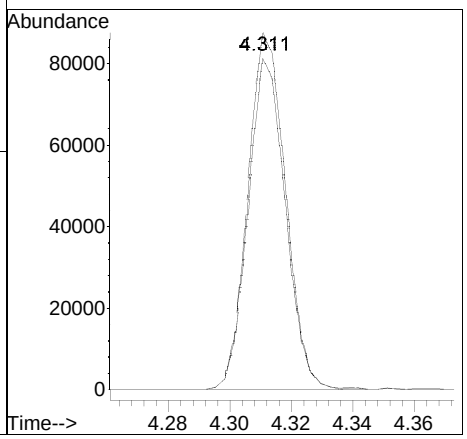


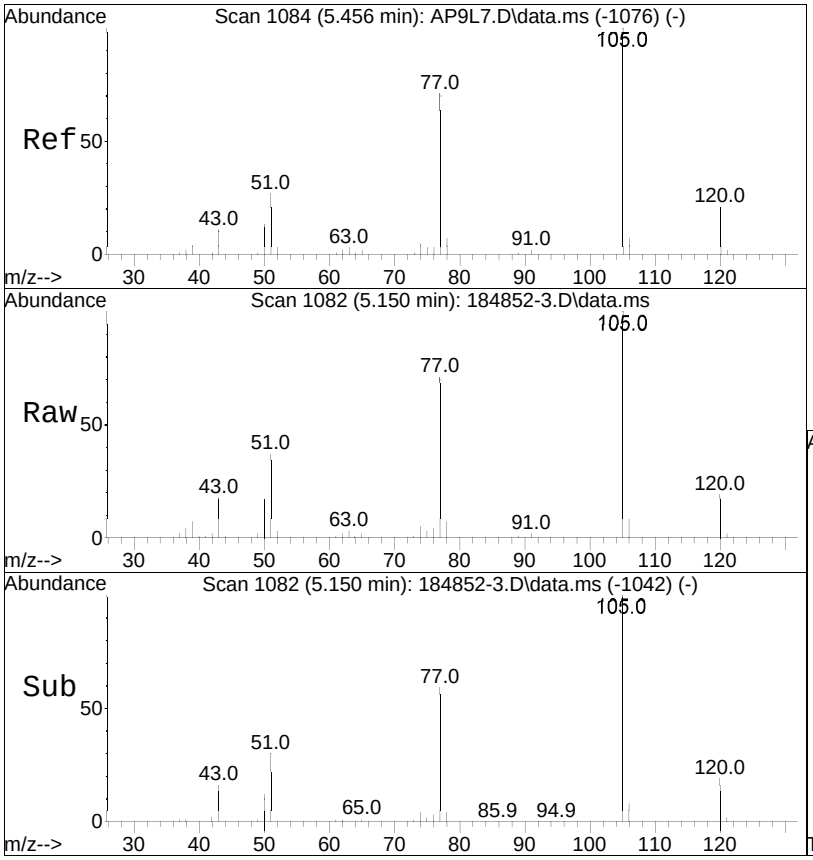


#28
Benzaldehyde
Concen: 23.39 ug/ml
RT: 4.311 min Scan# 812
Delta R.T. -0.003 min
Lab File: 184852-3.D
Acq: 5 Dec 2018 5:49 pm

Tgt Ion:105 Resp: 73843

Ion	Ratio	Lower	Upper
105	100		
77	92.1	76.9	115.3

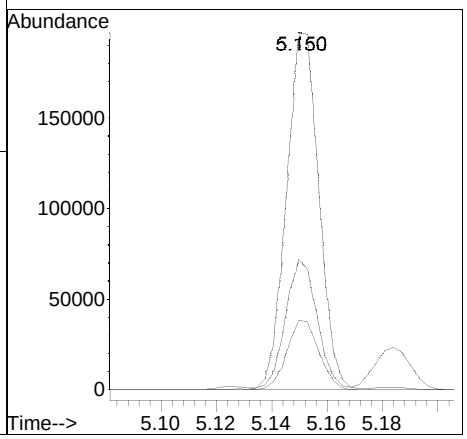


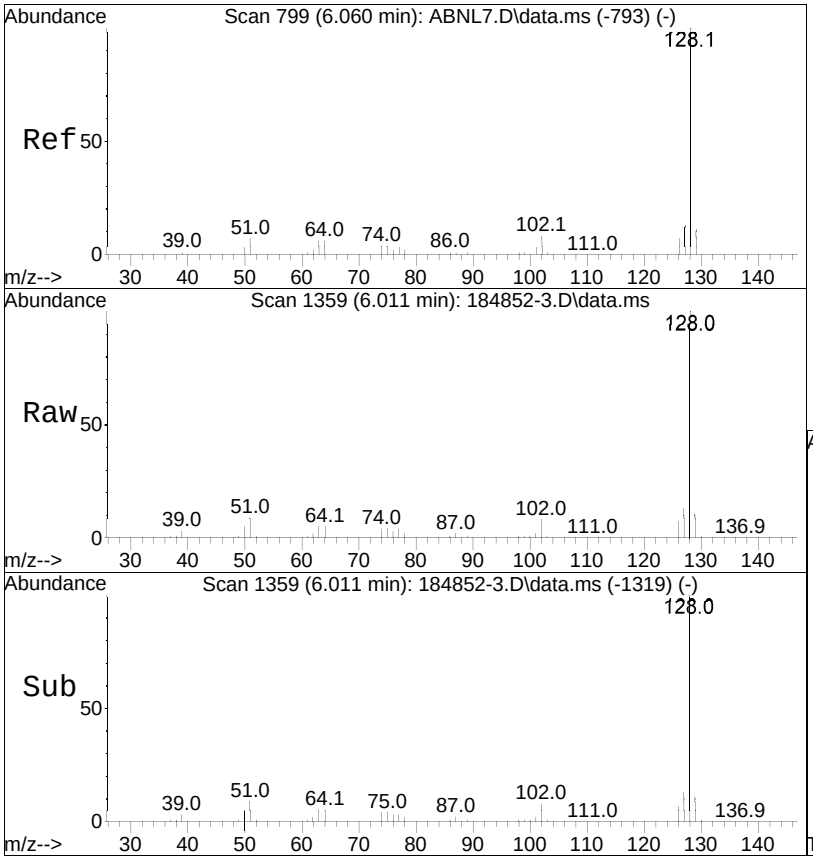


#29
Acetophenone
Concen: 29.57 ug/ml
RT: 5.150 min Scan# 1082
Delta R.T. 0.000 min
Lab File: 184852-3.D
Acq: 5 Dec 2018 5:49 pm

Tgt Ion:105 Resp: 159570

Ion	Ratio	Lower	Upper
105	100		
120	19.3	15.9	23.9
51	35.7	25.2	37.8

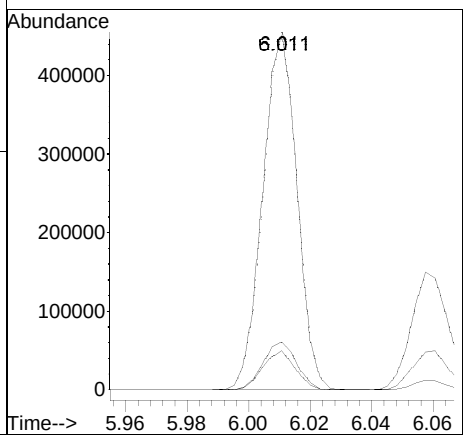


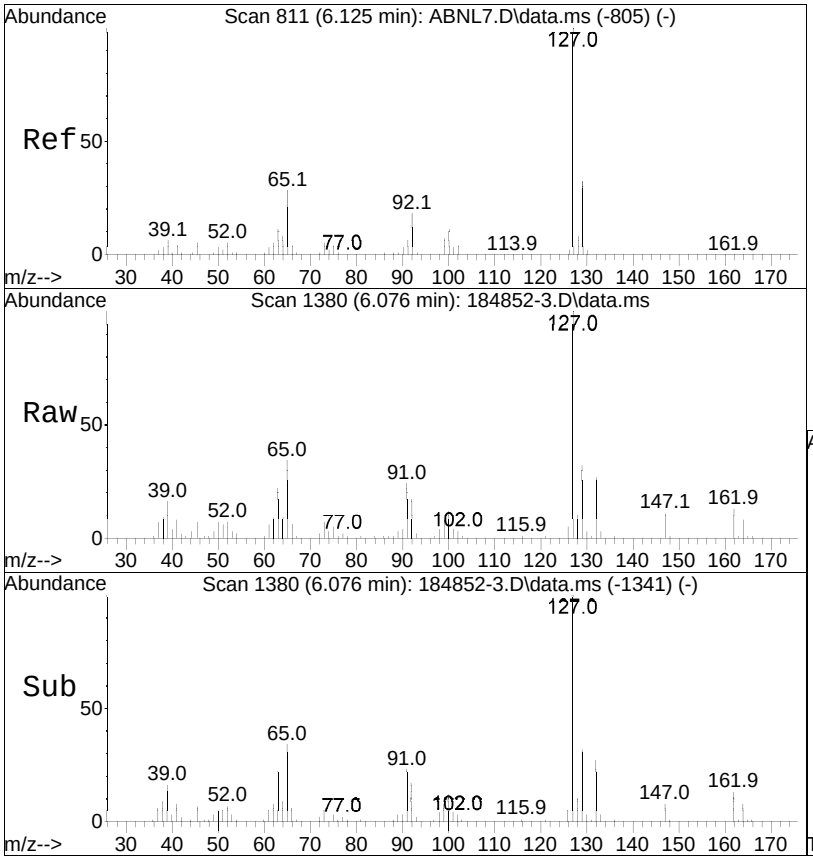


#35
Naphthalene
Concen: 27.20 ug/ml
RT: 6.011 min Scan# 1359
Delta R.T. 0.000 min
Lab File: 184852-3.D
Acq: 5 Dec 2018 5:49 pm

Tgt Ion:128 Resp: 347555

Ion	Ratio	Lower	Upper
128	100		
129	10.8	8.9	13.3
127	13.4	10.9	16.3

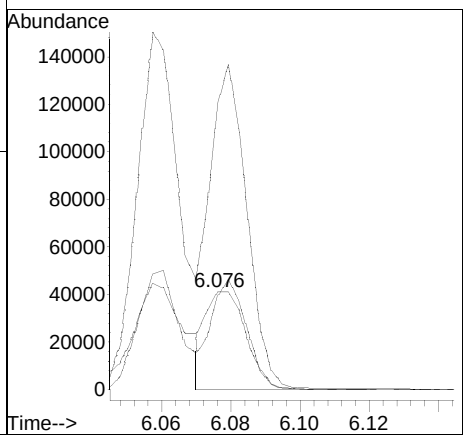


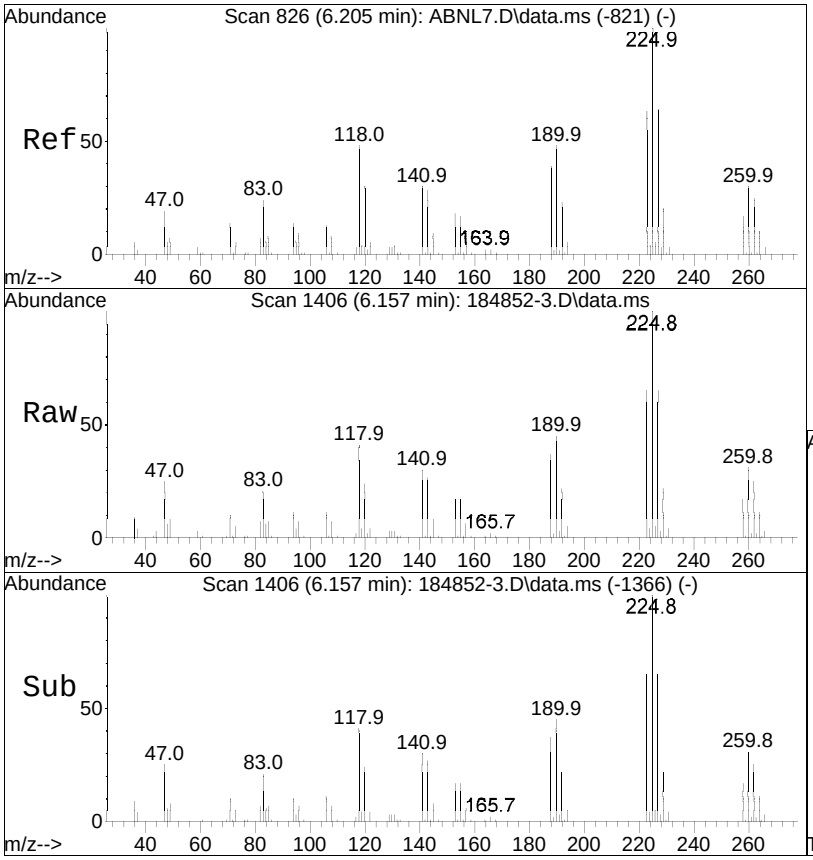


#37
4-Chloroaniline
Concen: 20.99 ug/ml
RT: 6.076 min Scan# 1380
Delta R.T. -0.003 min
Lab File: 184852-3.D
Acq: 5 Dec 2018 5:49 pm

Tgt Ion: 65 Resp: 33684

Ion	Ratio	Lower	Upper
65	100		
127	302.0	274.4	411.6
129	98.8	88.2	132.4

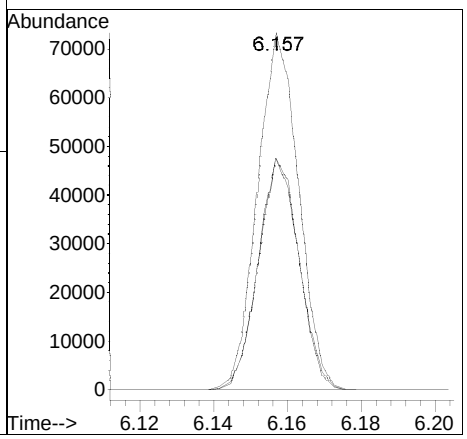


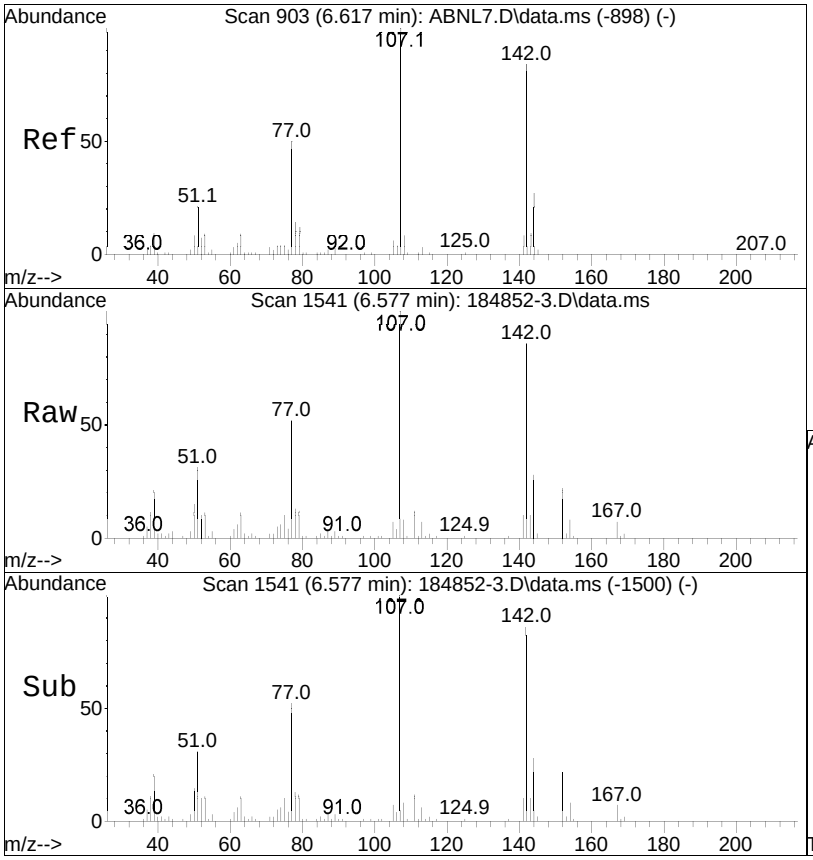


#38
Hexachlorobutadiene
Concen: 23.68 ug/ml
RT: 6.157 min Scan# 1406
Delta R.T. 0.000 min
Lab File: 184852-3.D
Acq: 5 Dec 2018 5:49 pm

Tgt Ion:225 Resp: 56352

Ion	Ratio	Lower	Upper
225	100		
223	63.7	49.3	73.9
227	65.1	51.1	76.7

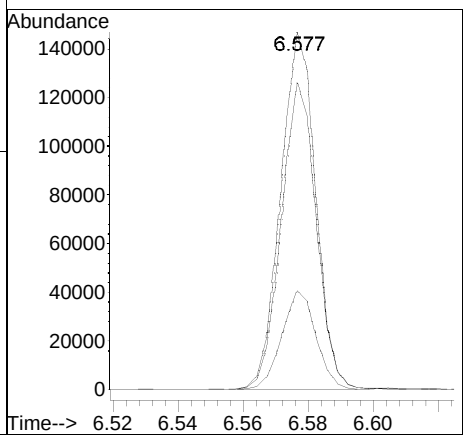


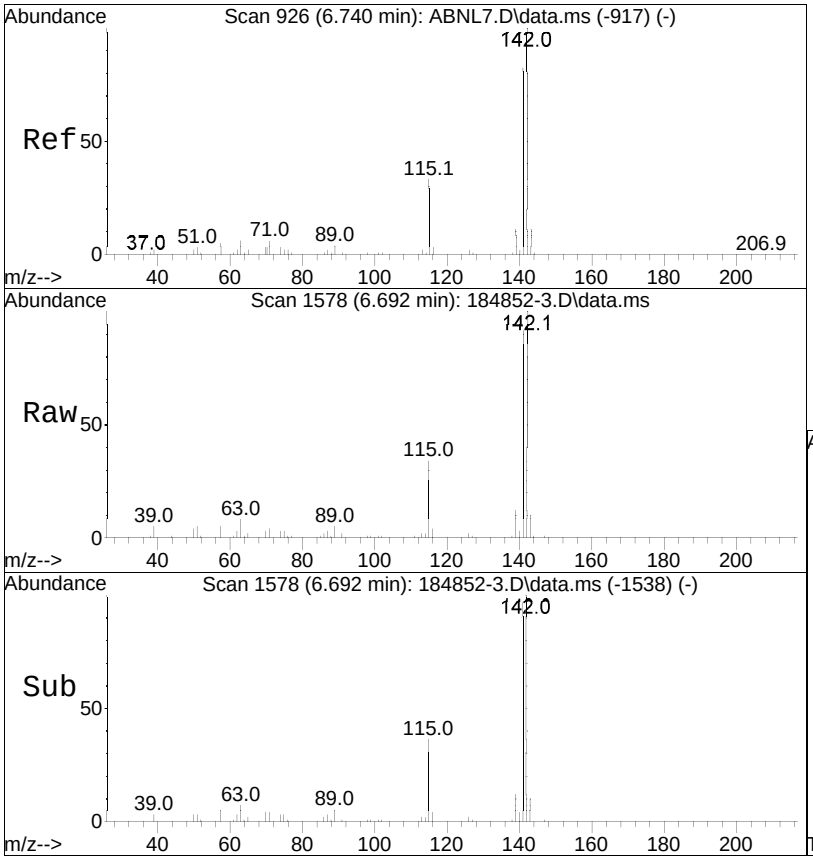


#39
p-Chloro-m-cresol
Concen: 31.75 ug/ml
RT: 6.577 min Scan# 1541
Delta R.T. 0.003 min
Lab File: 184852-3.D
Acq: 5 Dec 2018 5:49 pm

Tgt Ion:107 Resp: 108834

Ion	Ratio	Lower	Upper
107	100		
144	27.2	21.5	32.3
142	85.8	66.8	100.2

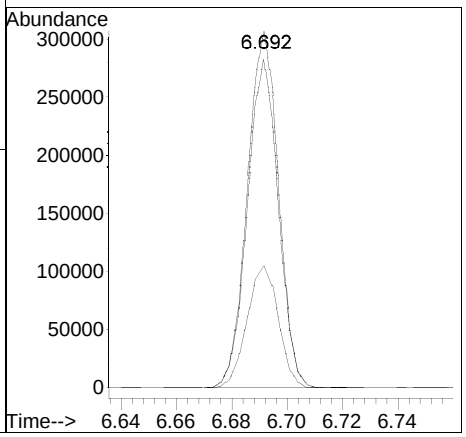


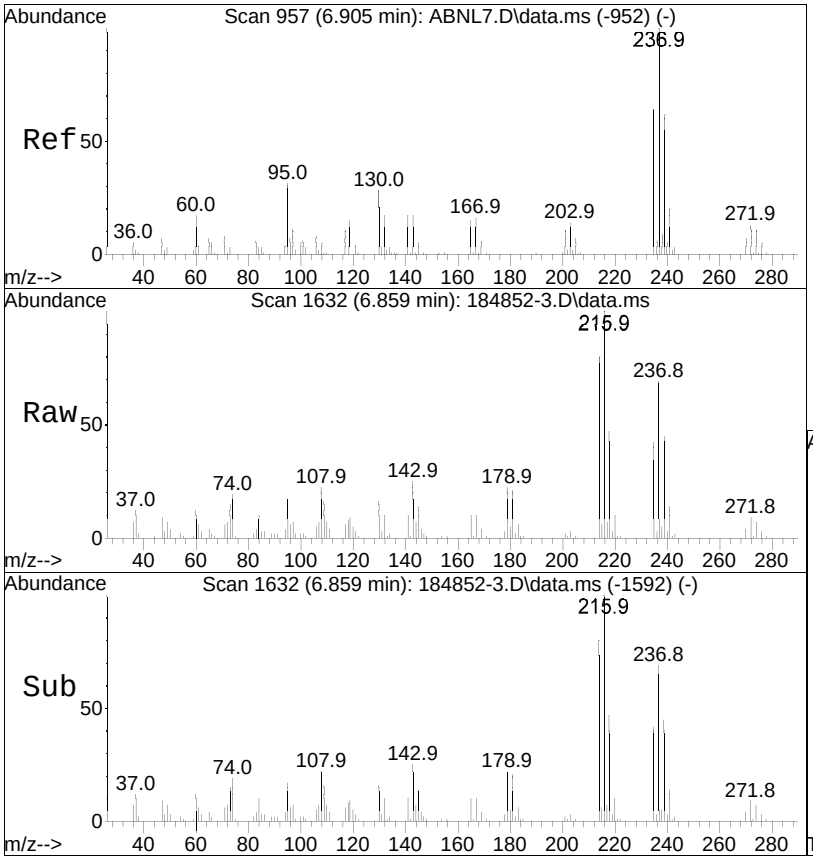


#40
2-Methylnaphthalene
Concen: 28.24 ug/ml
RT: 6.692 min Scan# 1578
Delta R.T. 0.000 min
Lab File: 184852-3.D
Acq: 5 Dec 2018 5:49 pm

Tgt Ion:142 Resp: 240069

Ion	Ratio	Lower	Upper
142	100		
141	91.5	73.0	109.6
115	34.5	25.4	38.2

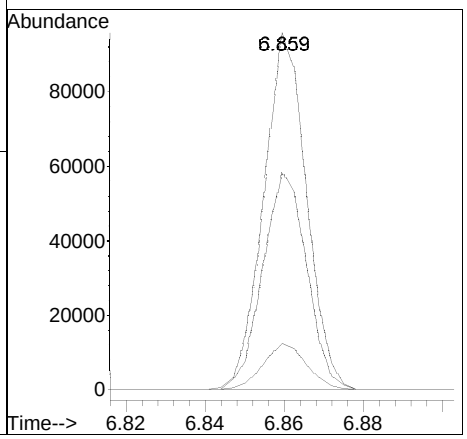


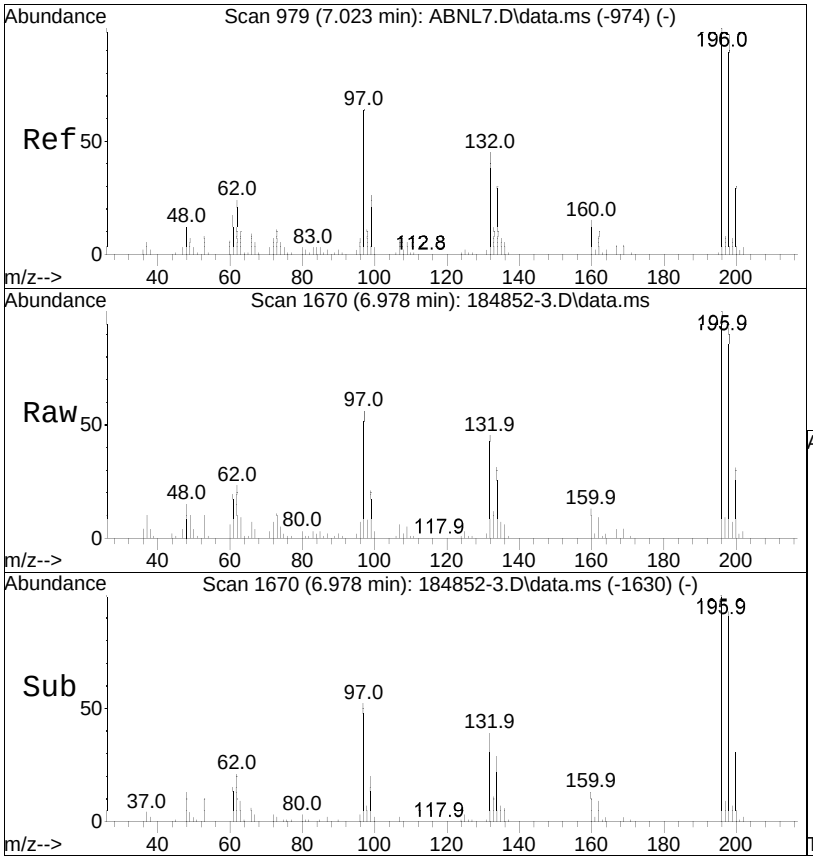


#42
Hexachlorocyclopentadiene
Concen: 25.43 ug/ml
RT: 6.859 min Scan# 1632
Delta R.T. 0.000 min
Lab File: 184852-3.D
Acq: 5 Dec 2018 5:49 pm

Tgt Ion:237 Resp: 71741

Ion	Ratio	Lower	Upper
237	100		
235	62.5	49.5	74.3
272	13.1	10.2	15.4

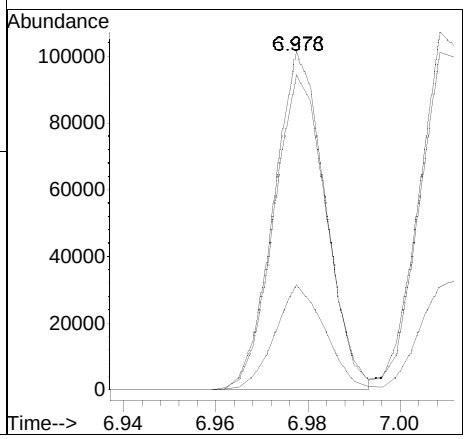


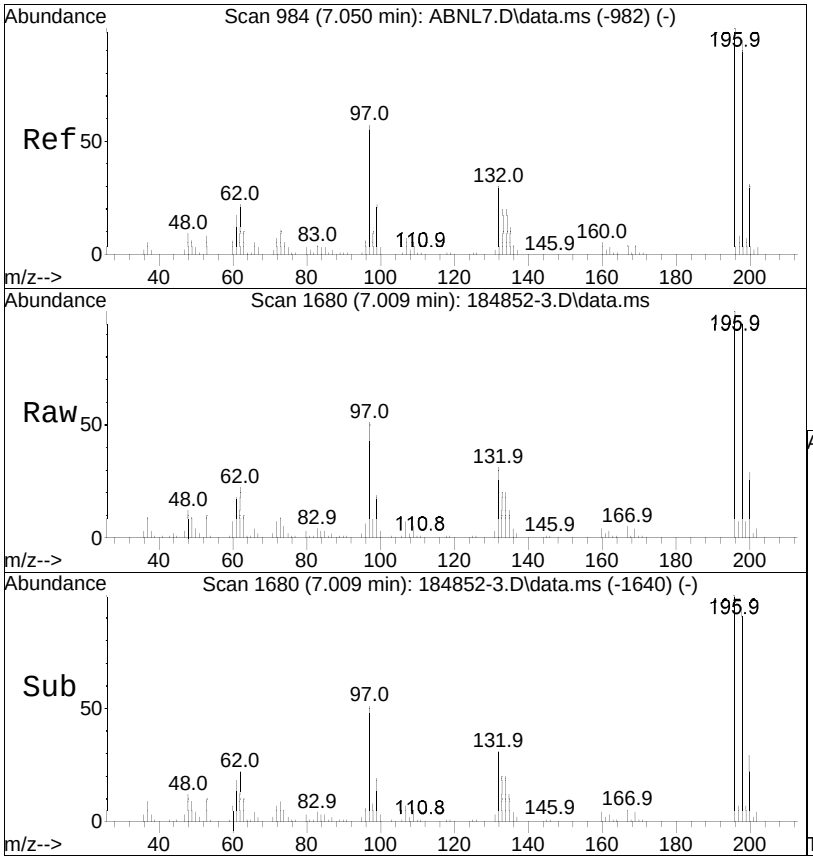


#43
2,4,6-Trichlorophenol
Concen: 31.84 ug/ml
RT: 6.978 min Scan# 1670
Delta R.T. 0.000 min
Lab File: 184852-3.D
Acq: 5 Dec 2018 5:49 pm

Tgt Ion:196 Resp: 78717

Ion	Ratio	Lower	Upper
196	100		
198	94.3	76.4	114.6
200	30.3	24.4	36.6

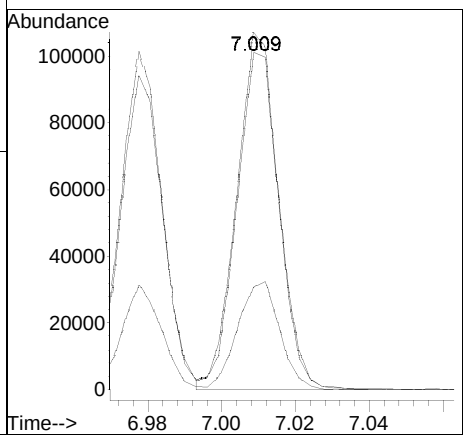


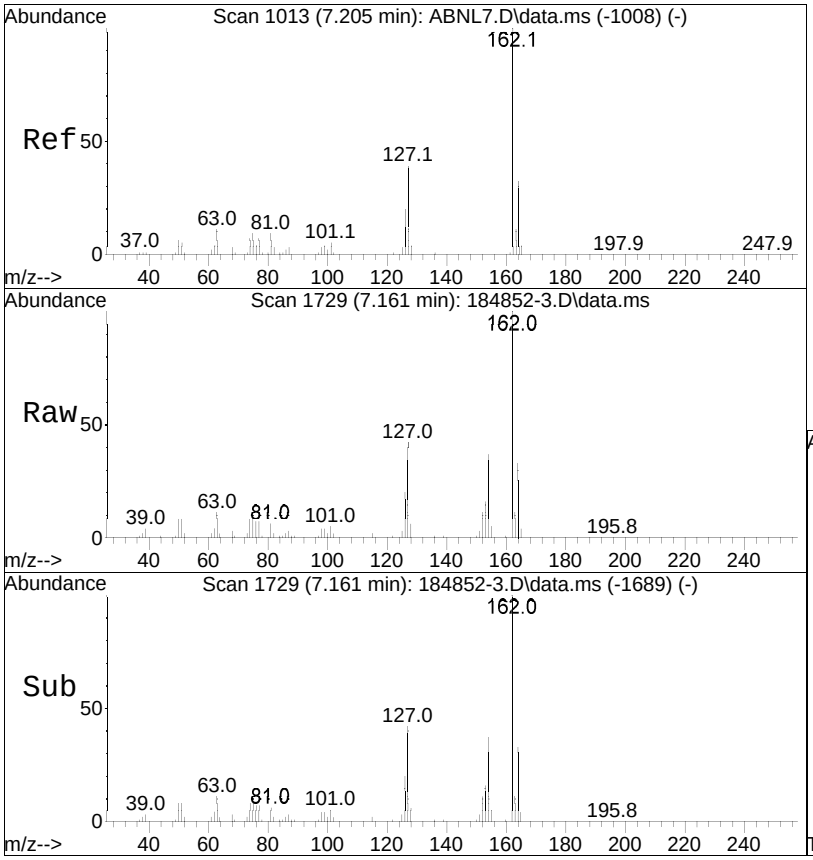


#44
2,4,5-Trichlorophenol
Concen: 31.74 ug/ml
RT: 7.009 min Scan# 1680
Delta R.T. 0.000 min
Lab File: 184852-3.D
Acq: 5 Dec 2018 5:49 pm

Tgt Ion:196 Resp: 84268

Ion	Ratio	Lower	Upper
196	100		
200	30.5	25.2	37.8
198	94.8	77.7	116.5

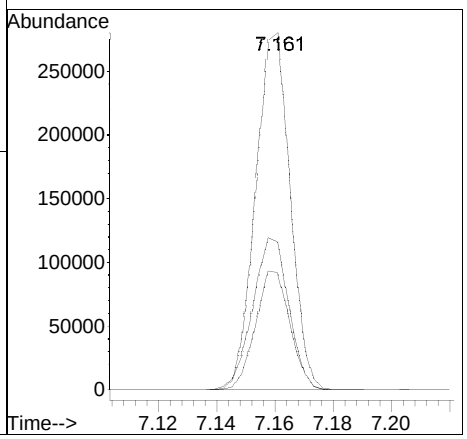


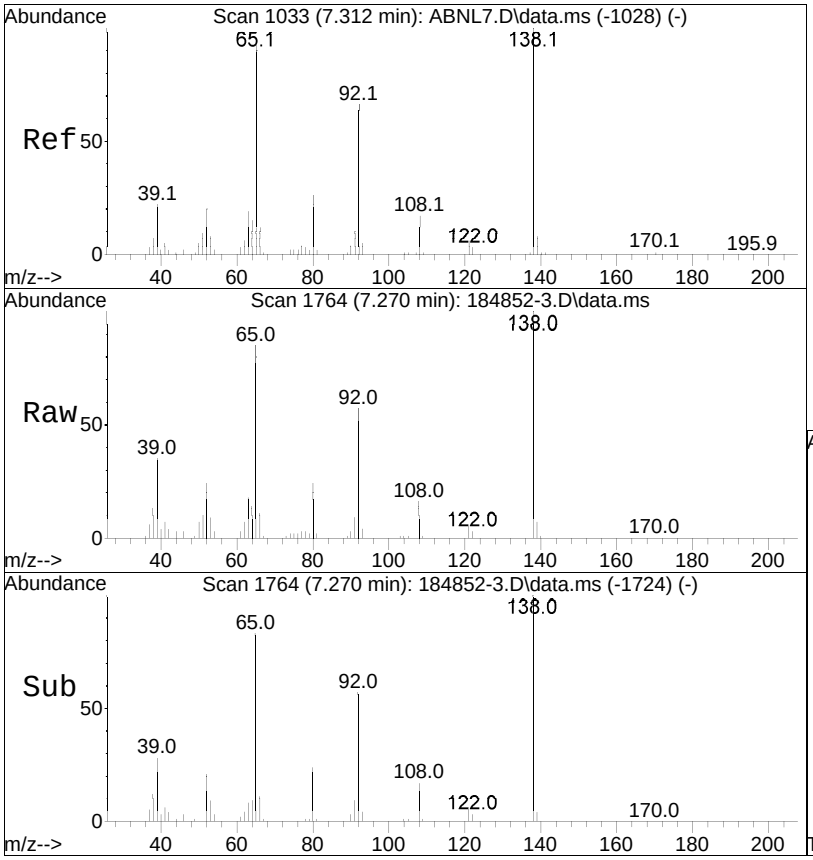


#46
2-Chloronaphthalene
Concen: 28.60 ug/ml
RT: 7.161 min Scan# 1729
Delta R.T. 0.000 min
Lab File: 184852-3.D
Acq: 5 Dec 2018 5:49 pm

Tgt Ion:162 Resp: 228642

Ion	Ratio	Lower	Upper
162	100		
127	44.7	31.7	47.5
164	33.4	26.2	39.4

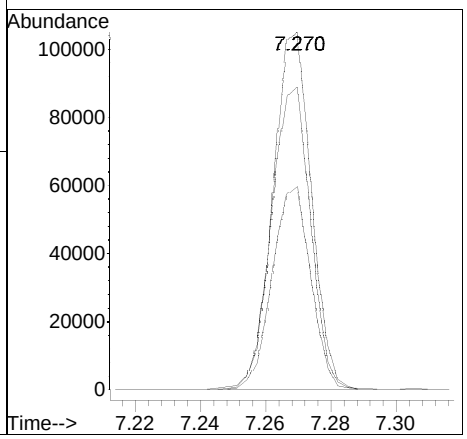


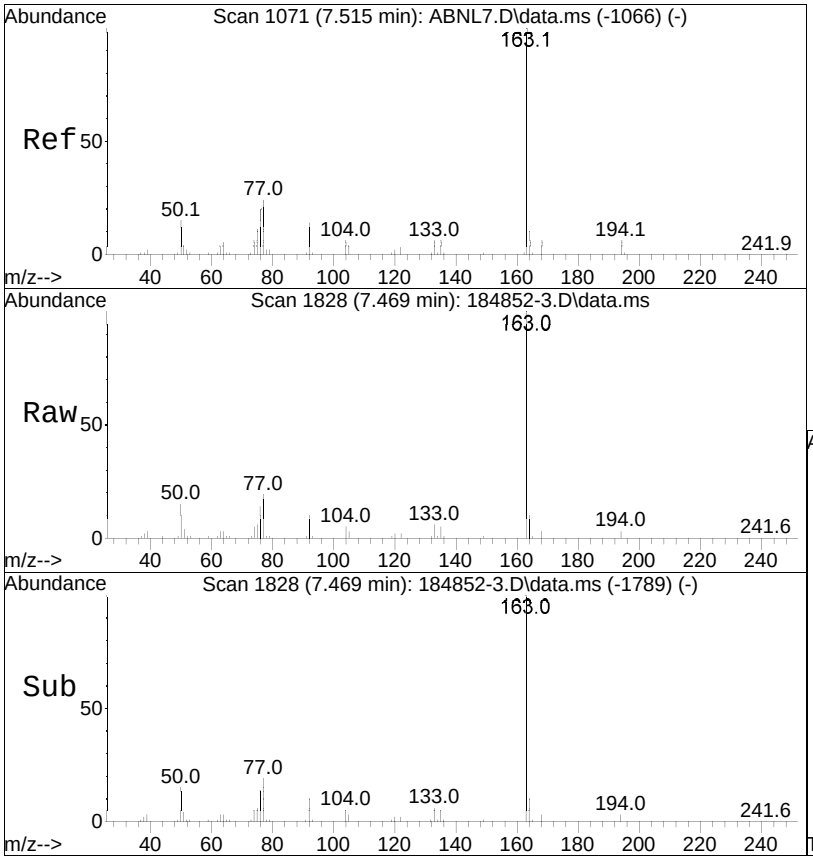


#47
2-Nitroaniline
Concen: 33.69 ug/ml
RT: 7.270 min Scan# 1764
Delta R.T. 0.000 min
Lab File: 184852-3.D
Acq: 5 Dec 2018 5:49 pm

Tgt Ion:138 Resp: 85174

Ion	Ratio	Lower	Upper
138	100		
92	57.1	48.0	72.0
65	86.3	72.8	109.2

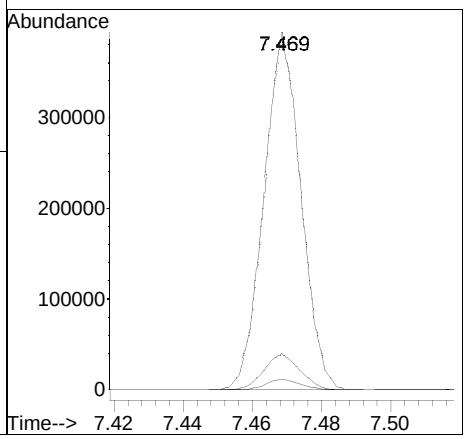


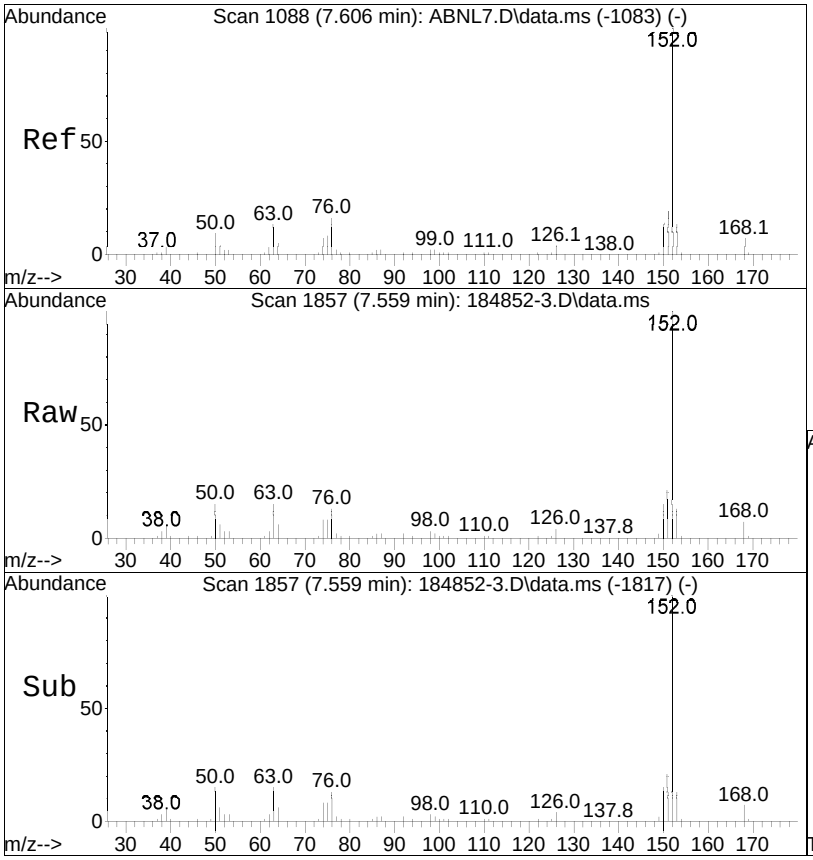


#50
Dimethyl phthalate
Concen: 30.54 ug/ml
RT: 7.469 min Scan# 1828
Delta R.T. -0.003 min
Lab File: 184852-3.D
Acq: 5 Dec 2018 5:49 pm

Tgt Ion:163 Resp: 288980

Ion	Ratio	Lower	Upper
163	100		
194	3.0	2.4	3.6
164	10.0	8.1	12.1

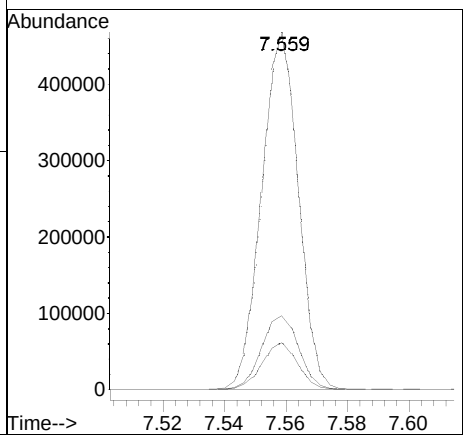


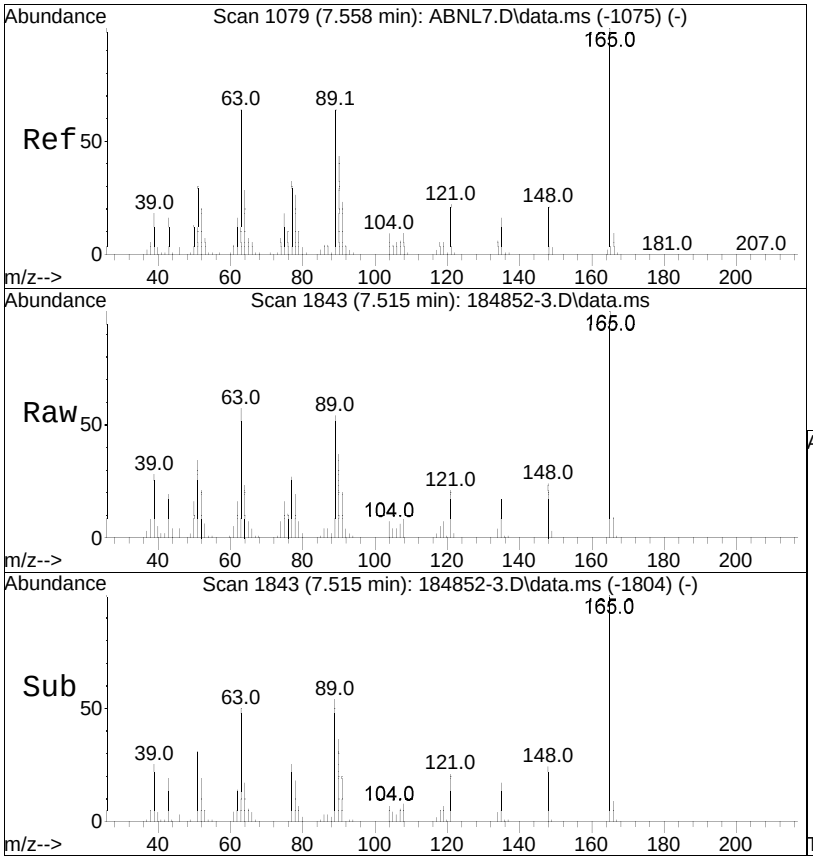


#51
Acenaphthylene
Concen: 29.74 ug/ml
RT: 7.559 min Scan# 1857
Delta R.T. 0.000 min
Lab File: 184852-3.D
Acq: 5 Dec 2018 5:49 pm

Tgt Ion:152 Resp: 382769

Ion	Ratio	Lower	Upper
152	100		
151	21.2	16.6	24.8
153	13.0	10.5	15.7

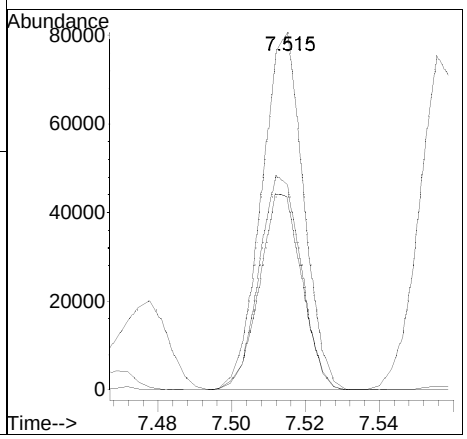


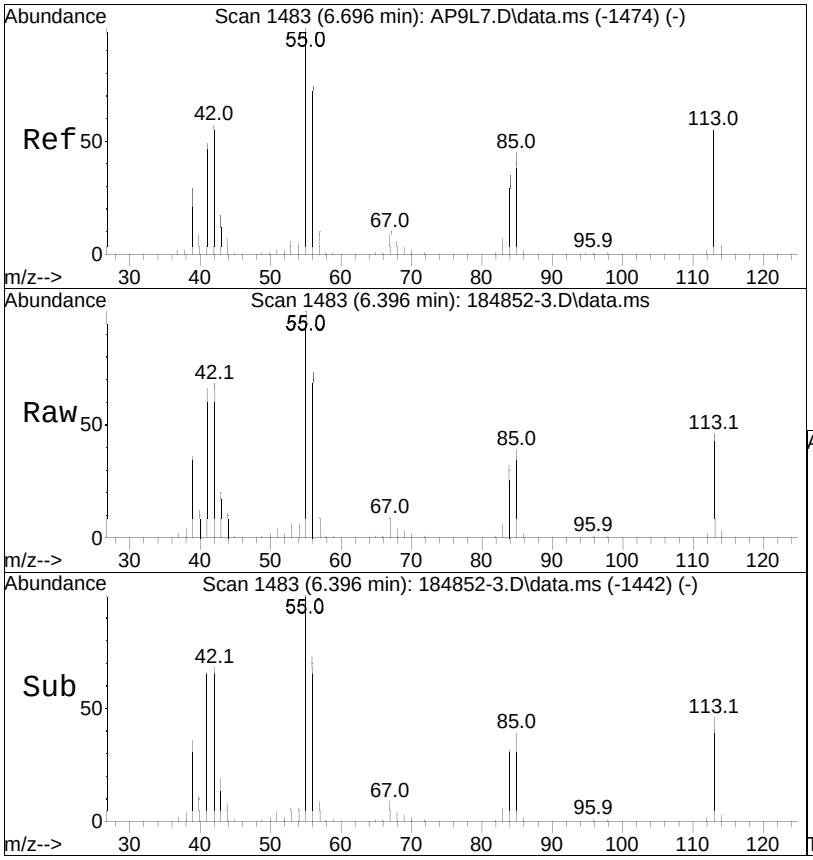


#52
2,6-Dinitrotoluene
Concen: 32.42 ug/ml
RT: 7.515 min Scan# 1843
Delta R.T. -0.003 min
Lab File: 184852-3.D
Acq: 5 Dec 2018 5:49 pm

Tgt Ion:165 Resp: 63800

Ion	Ratio	Lower	Upper
165	100		
89	55.3	44.7	67.1
63	60.4	48.2	72.4

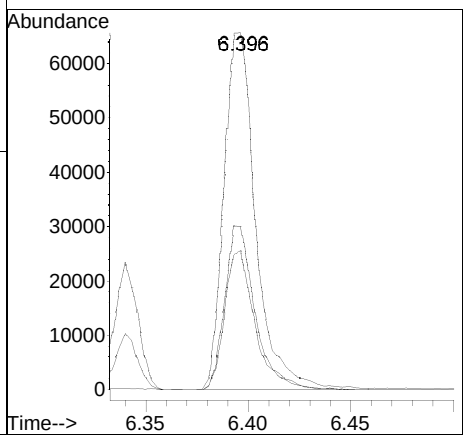


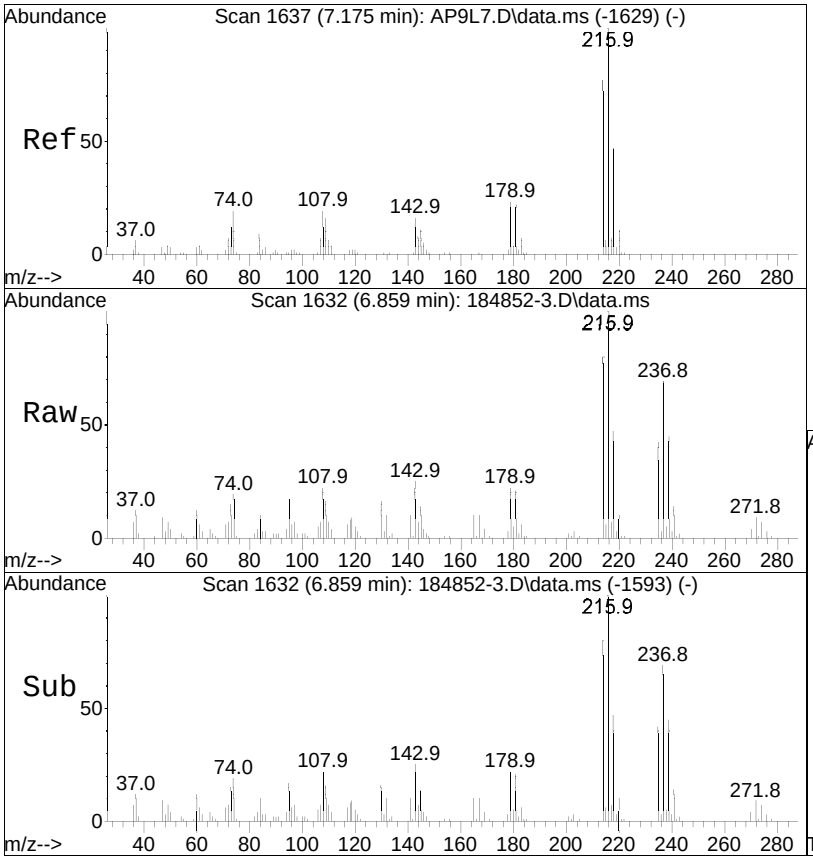


#59
Caprolactam
Concen: 35.53 ug/ml
RT: 6.396 min Scan# 1483
Delta R.T. 0.003 min
Lab File: 184852-3.D
Acq: 5 Dec 2018 5:49 pm

Tgt Ion: 55 Resp: 70733

Ion	Ratio	Lower	Upper
55	100		
85	37.5	30.9	46.3
113	44.0	34.7	52.1

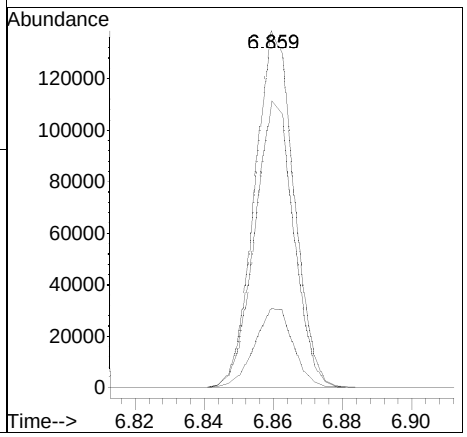


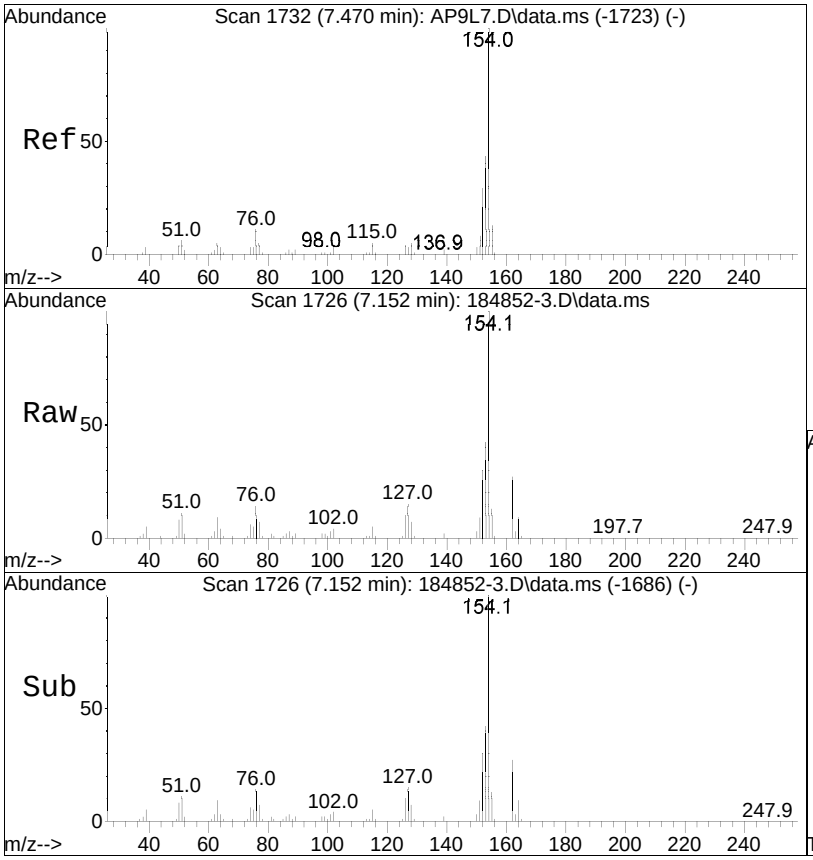


#60
1,2,4,5-Tetrachlorobenzene
Concen: 27.94 ug/ml
RT: 6.859 min Scan# 1632
Delta R.T. -0.003 min
Lab File: 184852-3.D
Acq: 5 Dec 2018 5:49 pm

Tgt Ion:216 Resp: 108645

Ion	Ratio	Lower	Upper
216	100		
214	79.8	62.2	93.4
179	21.9	17.4	26.2

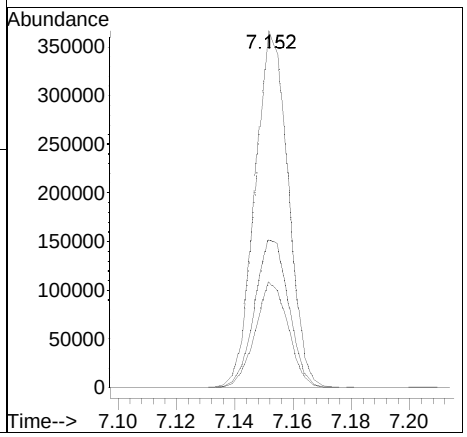


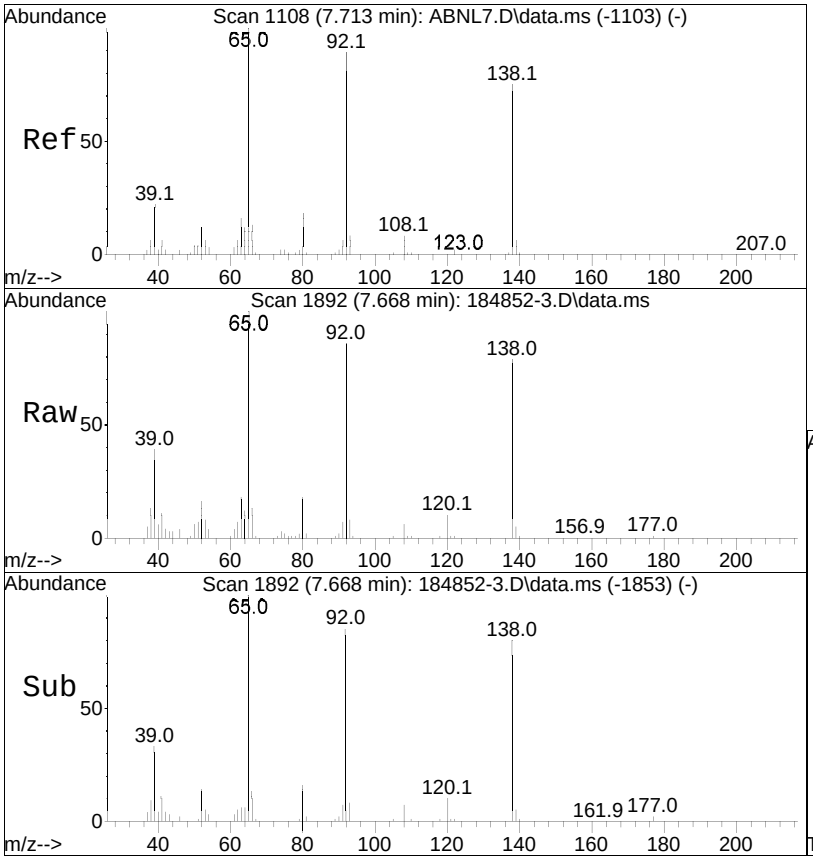


#61
Biphenyl
Concen: 29.65 ug/ml
RT: 7.152 min Scan# 1726
Delta R.T. 0.000 min
Lab File: 184852-3.D
Acq: 5 Dec 2018 5:49 pm

Tgt Ion:154 Resp: 288958

Ion	Ratio	Lower	Upper
154	100		
153	42.5	33.4	50.0
152	29.5	23.0	34.6

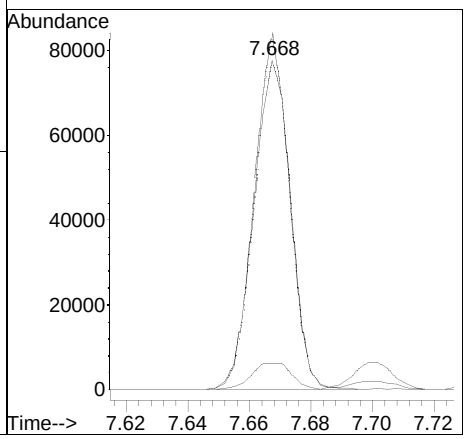


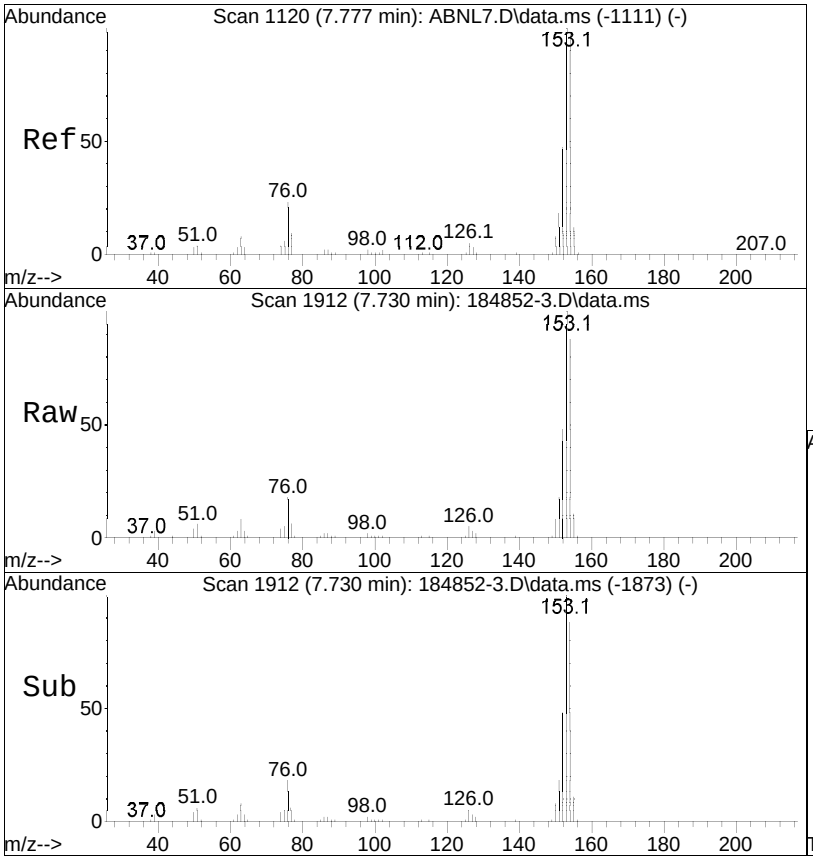


#63
3-Nitroaniline
Concen: 26.75 ug/ml
RT: 7.668 min Scan# 1892
Delta R.T. -0.003 min
Lab File: 184852-3.D
Acq: 5 Dec 2018 5:49 pm

Tgt Ion:138 Resp: 63792

Ion	Ratio	Lower	Upper
138	100		
92	103.1	86.4	129.6
108	8.9	9.4	14.0#

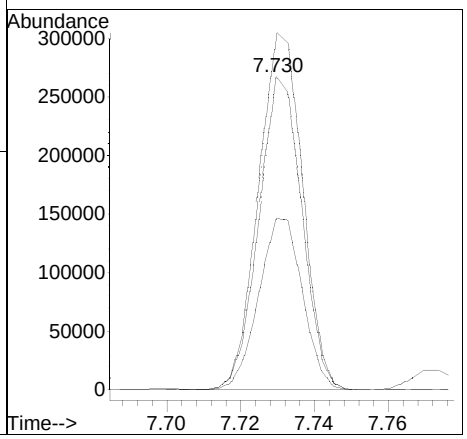


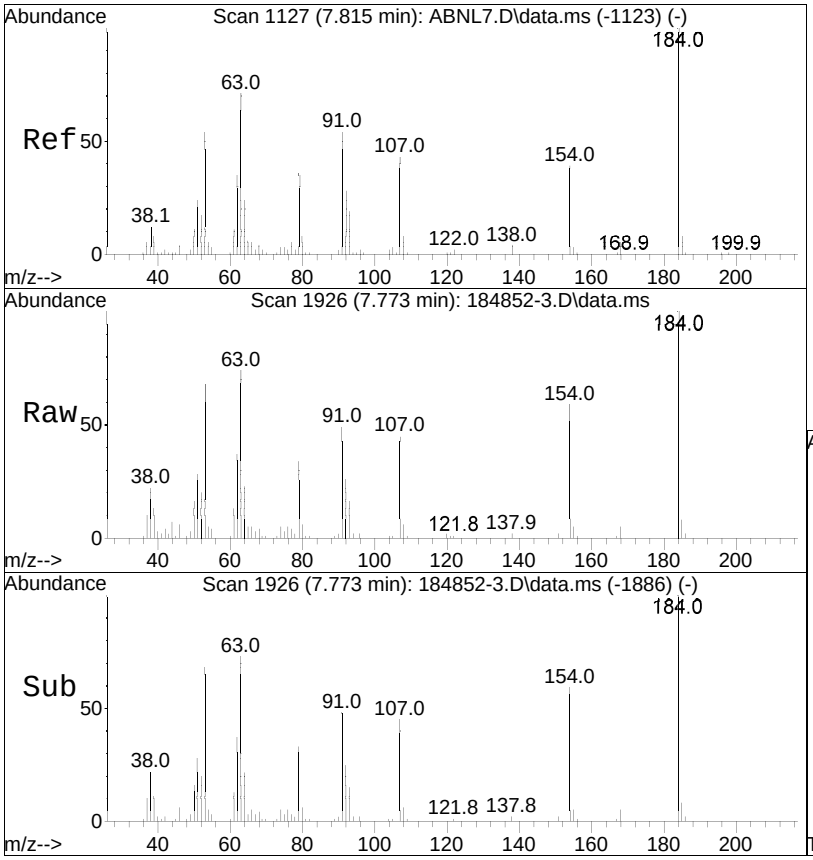


#64
Acenaphthene
Concen: 27.38 ug/ml
RT: 7.730 min Scan# 1912
Delta R.T. -0.003 min
Lab File: 184852-3.D
Acq: 5 Dec 2018 5:49 pm

Tgt Ion:154 Resp: 216262

Ion	Ratio	Lower	Upper
154	100		
153	117.0	94.2	141.2
152	56.1	44.1	66.1

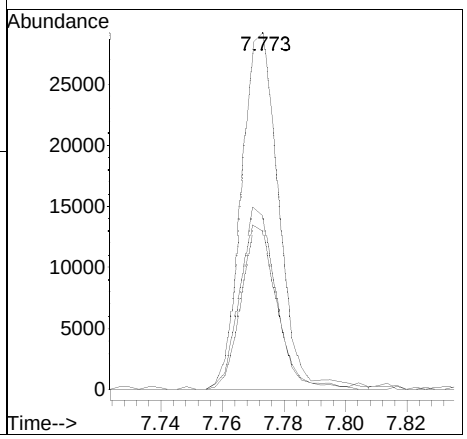


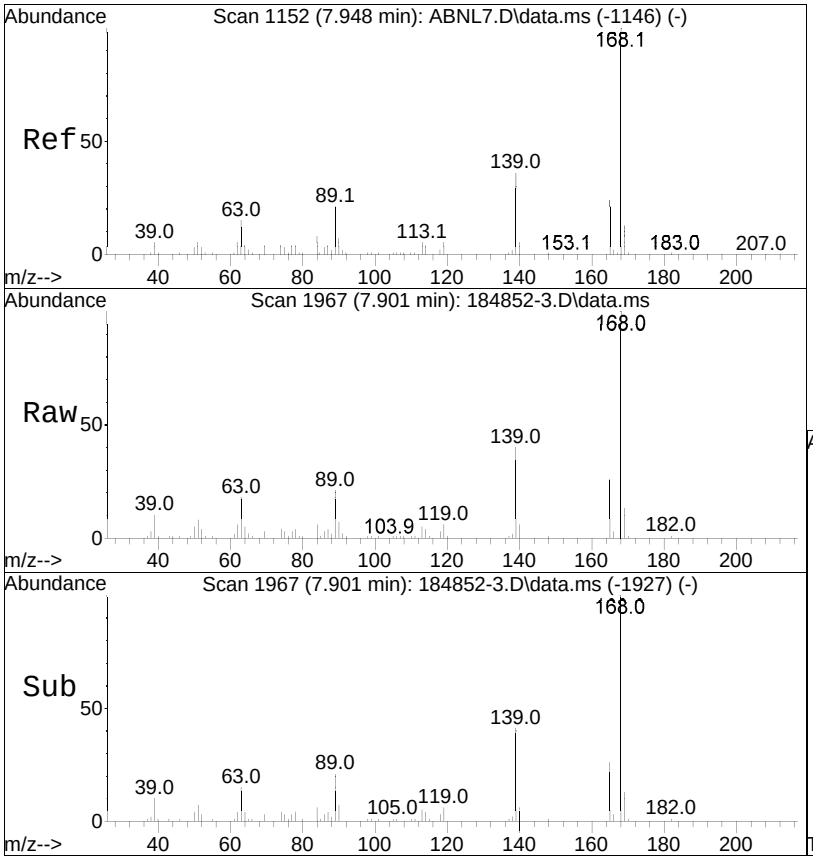


#65
2,4-Dinitrophenol
Concen: 21.92 ug/ml
RT: 7.773 min Scan# 1926
Delta R.T. 0.000 min
Lab File: 184852-3.D
Acq: 5 Dec 2018 5:49 pm

Tgt Ion:184 Resp: 24561

Ion	Ratio	Lower	Upper
184	100		
107	44.3	37.3	55.9
91	49.8	43.8	65.6

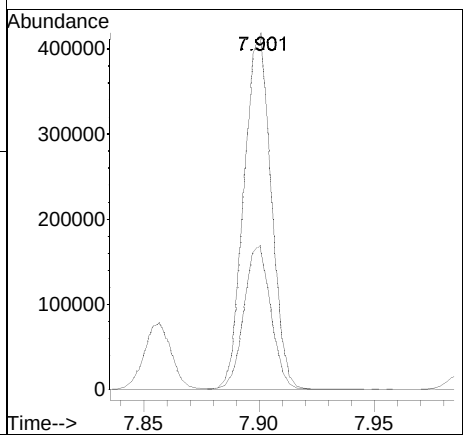


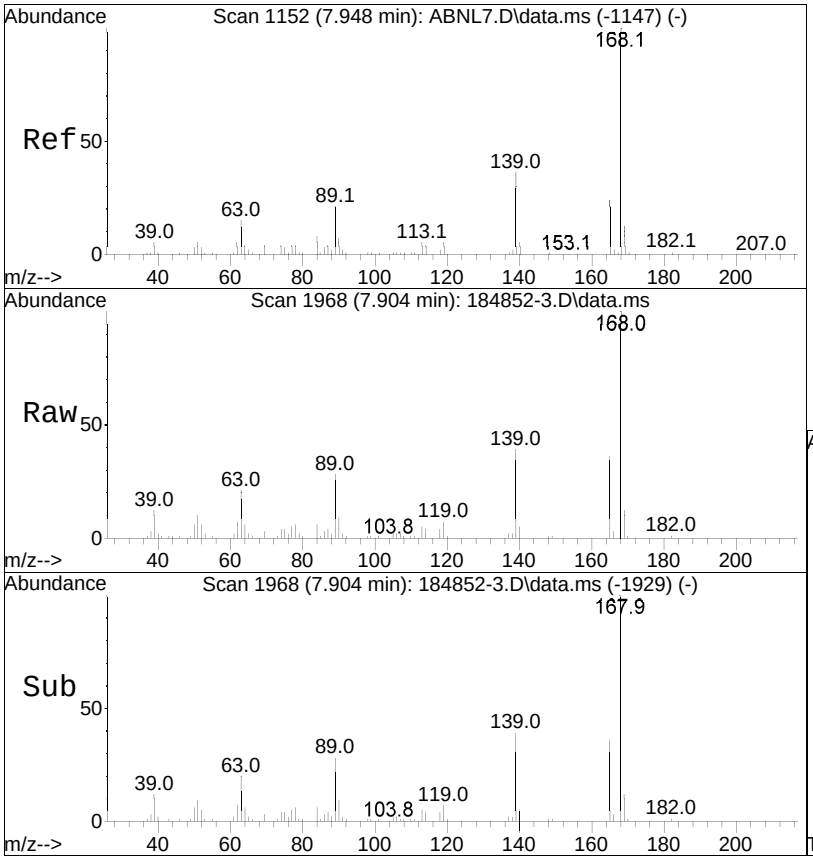


#66
Dibenzofuran
Concen: 27.48 ug/ml
RT: 7.901 min Scan# 1967
Delta R.T. 0.000 min
Lab File: 184852-3.D
Acq: 5 Dec 2018 5:49 pm

Tgt Ion:168 Resp: 340446

Ion	Ratio	Lower	Upper
168	100		
139	39.9	30.4	45.6

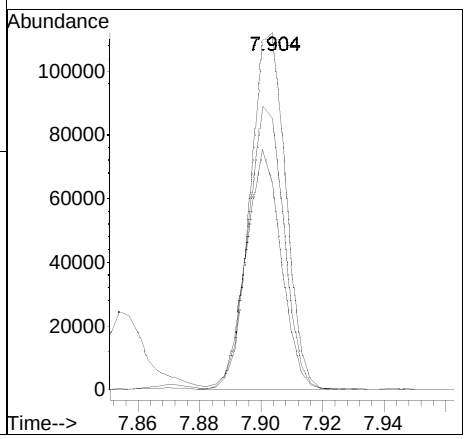


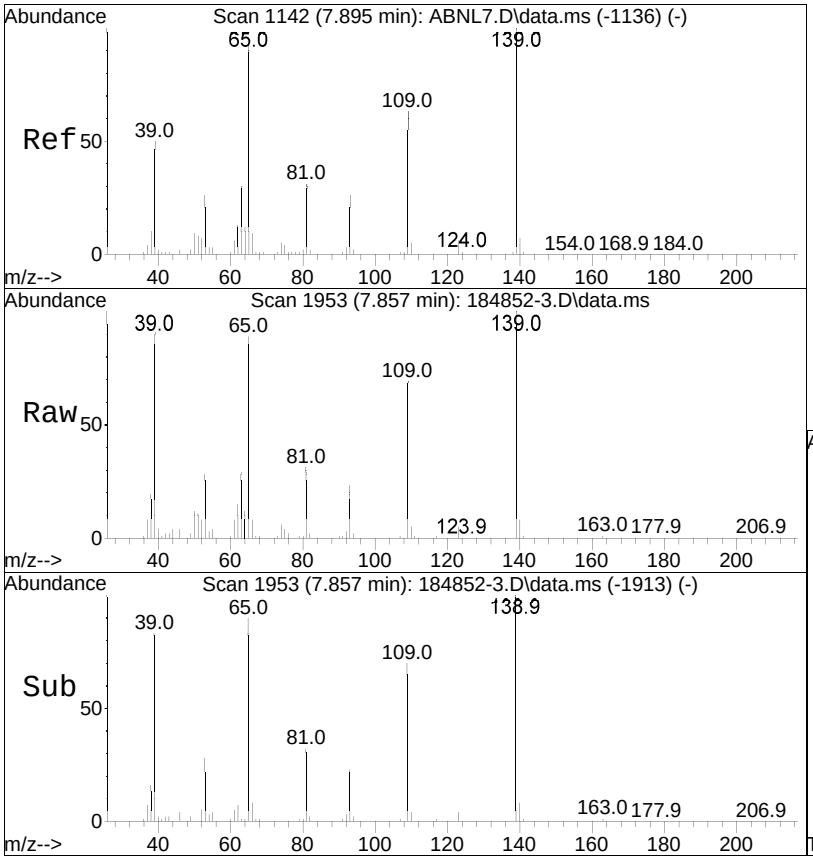


#67
2,4-Dinitrotoluene
Concen: 32.22 ug/ml
RT: 7.904 min Scan# 1968
Delta R.T. -0.003 min
Lab File: 184852-3.D
Acq: 5 Dec 2018 5:49 pm

Tgt Ion:165 Resp: 89494

Ion	Ratio	Lower	Upper
165	100		
89	80.3	69.8	104.8
63	66.9	59.2	88.8

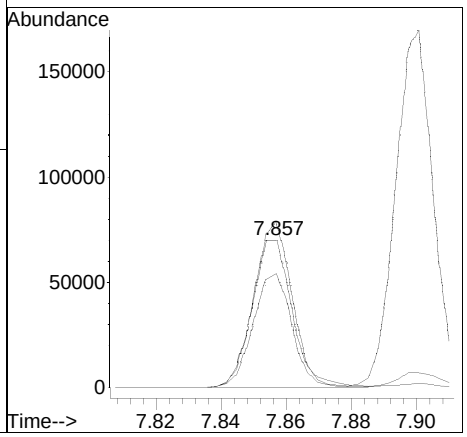


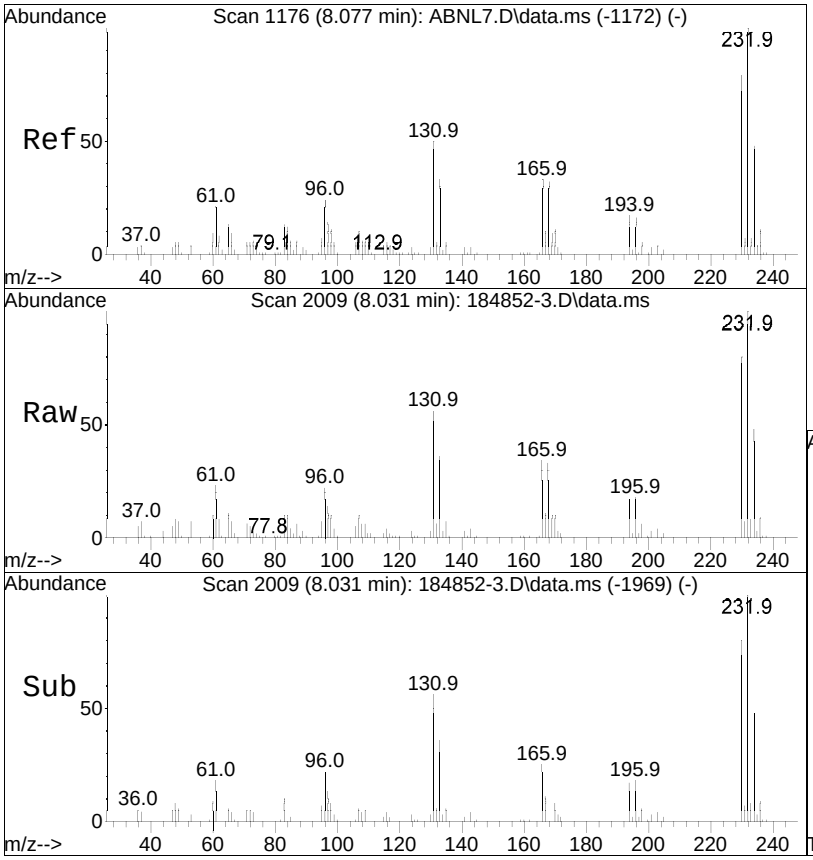


#68
4-Nitrophenol
Concen: 30.44 ug/ml
RT: 7.857 min Scan# 1953
Delta R.T. 0.000 min
Lab File: 184852-3.D
Acq: 5 Dec 2018 5:49 pm

Tgt Ion: 65 Resp: 60384

Ion	Ratio	Lower	Upper
65	100		
109	74.4	52.8	79.2
139	106.6	84.1	126.1

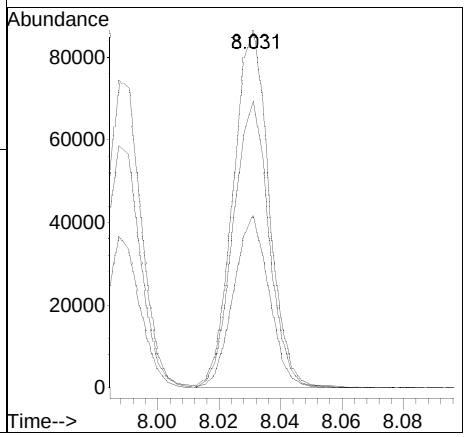


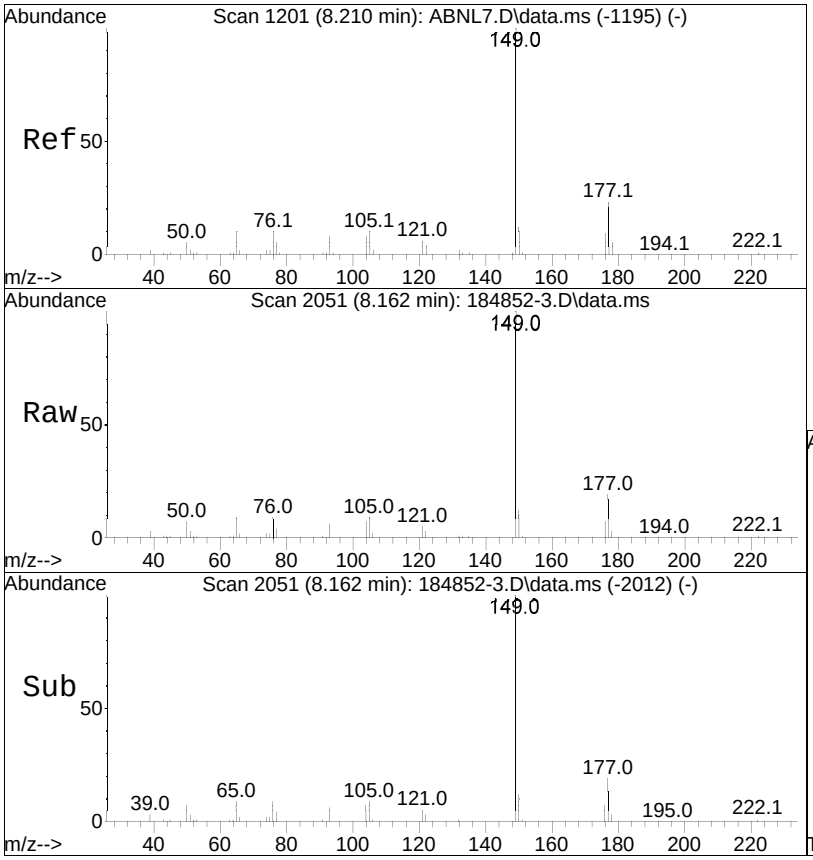


#70
2,3,4,6-Tetrachlorophenol
Concen: 27.82 ug/ml
RT: 8.031 min Scan# 2009
Delta R.T. 0.000 min
Lab File: 184852-3.D
Acq: 5 Dec 2018 5:49 pm

Tgt Ion:232 Resp: 70645

Ion	Ratio	Lower	Upper
232	100		
230	79.1	62.8	94.2
234	47.8	38.3	57.5

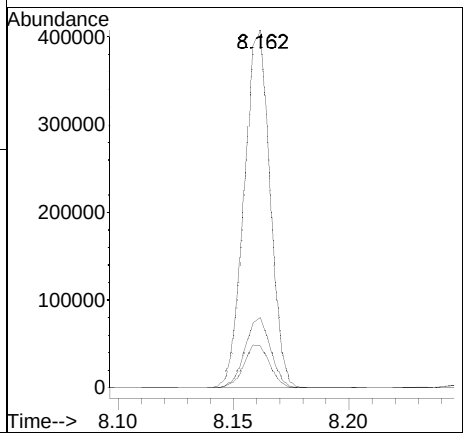


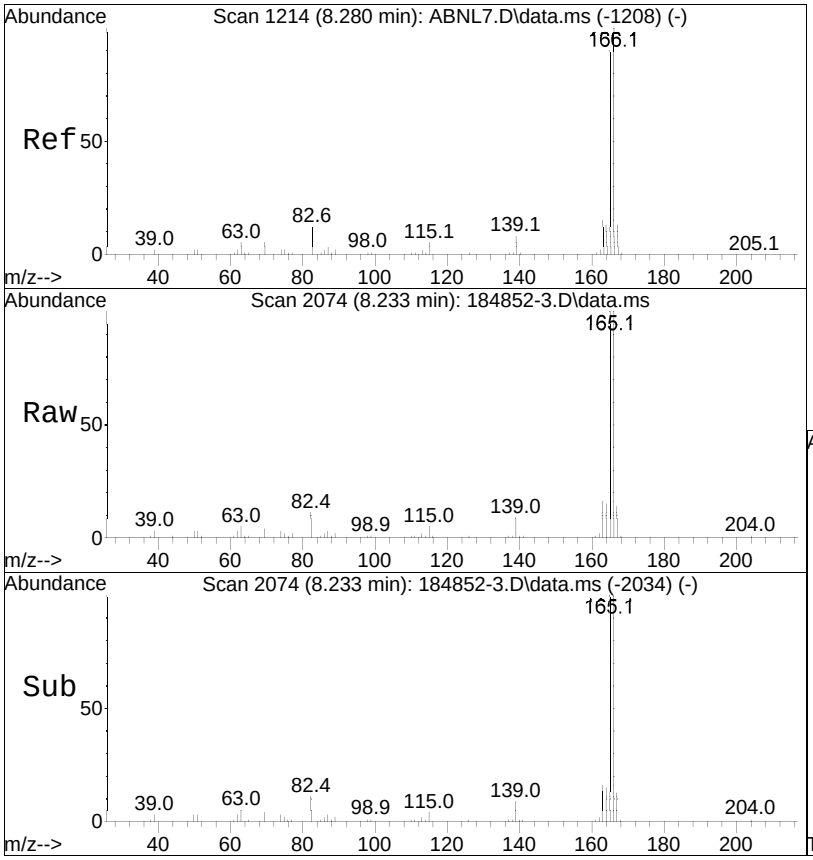


#71
Diethyl phthalate
Concen: 30.16 ug/ml
RT: 8.162 min Scan# 2051
Delta R.T. -0.003 min
Lab File: 184852-3.D
Acq: 5 Dec 2018 5:49 pm

Tgt Ion:149 Resp: 313301

Ion	Ratio	Lower	Upper
149	100		
177	19.6	15.6	23.4
150	12.2	9.6	14.4

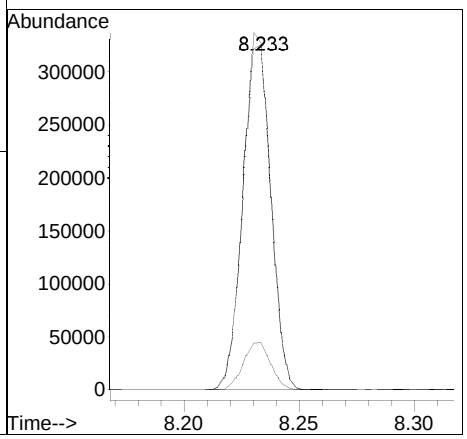


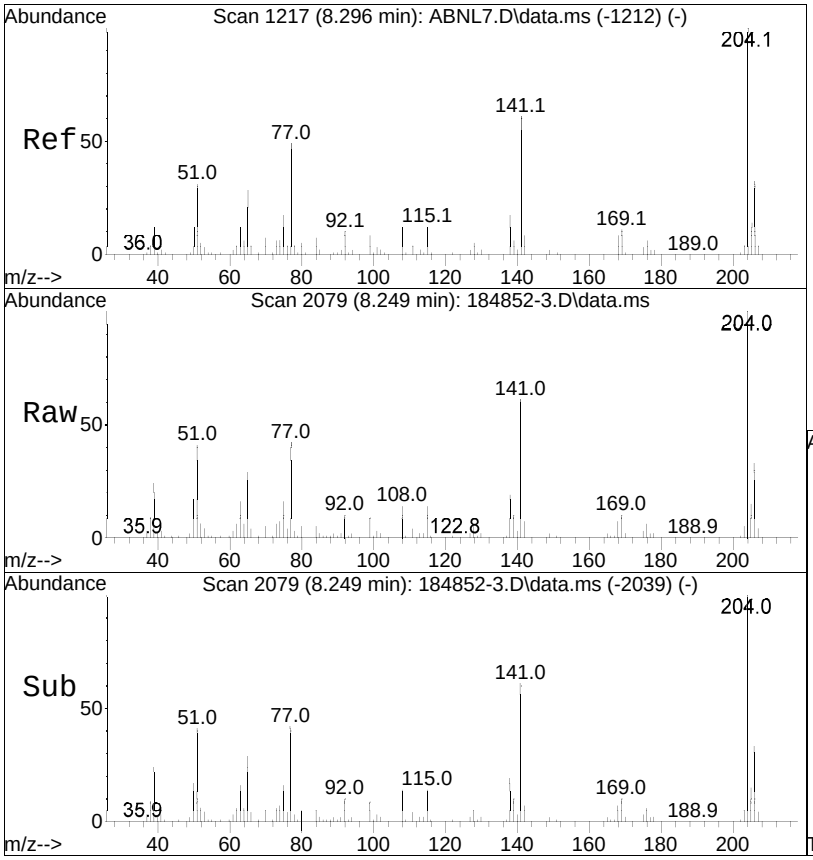


#72
Fluorene
Concen: 28.76 ug/ml
RT: 8.233 min Scan# 2074
Delta R.T. 0.000 min
Lab File: 184852-3.D
Acq: 5 Dec 2018 5:49 pm

Tgt Ion:166 Resp: 275289

Ion	Ratio	Lower	Upper
166	100		
165	102.5	80.4	120.6
167	13.7	10.7	16.1

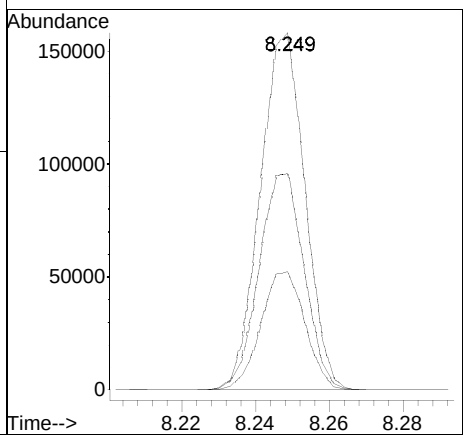


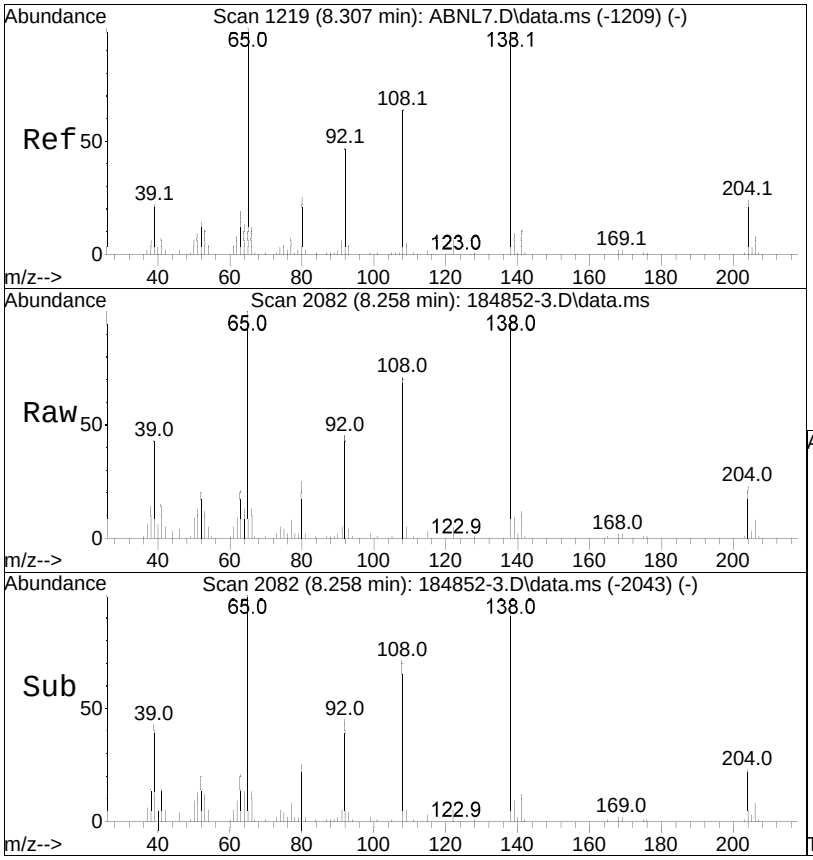


#73
4-Chlorophenyl phenyl ether
Concen: 28.51 ug/ml
RT: 8.249 min Scan# 2079
Delta R.T. 0.000 min
Lab File: 184852-3.D
Acq: 5 Dec 2018 5:49 pm

Tgt Ion:204 Resp: 132012

Ion	Ratio	Lower	Upper
204	100		
206	33.0	26.0	39.0
141	61.4	48.5	72.7

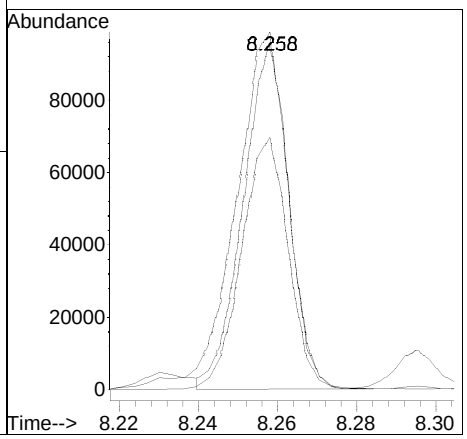


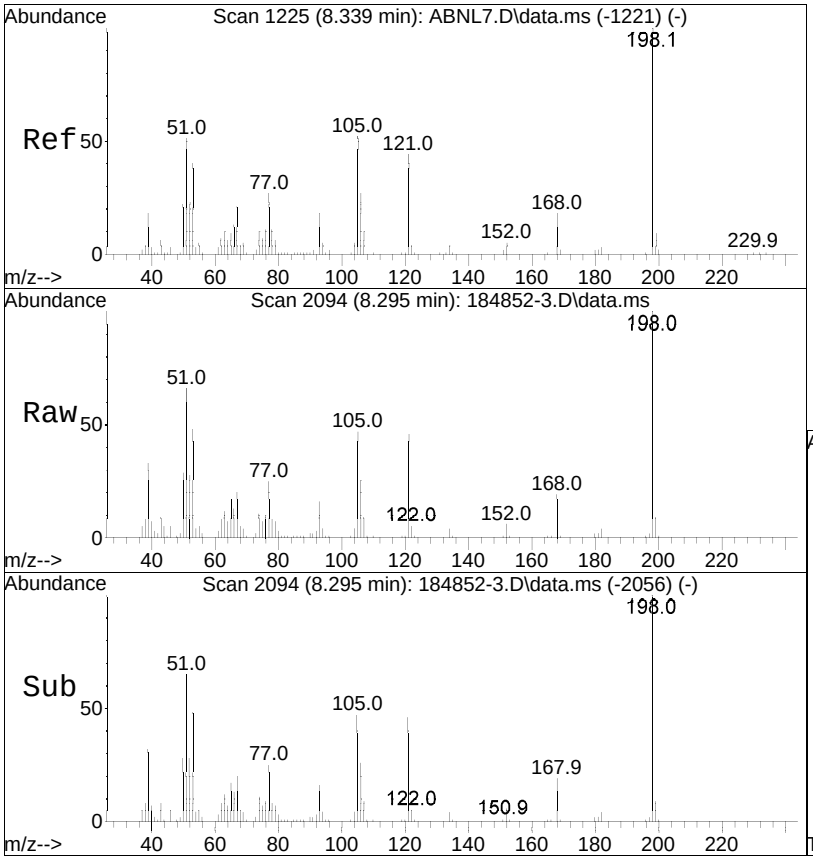


#74
4-Nitroaniline
Concen: 32.35 ug/ml
RT: 8.258 min Scan# 2082
Delta R.T. -0.003 min
Lab File: 184852-3.D
Acq: 5 Dec 2018 5:49 pm

Tgt Ion:138 Resp: 76446

Ion	Ratio	Lower	Upper
138	100		
108	74.5	54.4	81.6
65	118.5	100.1	150.1

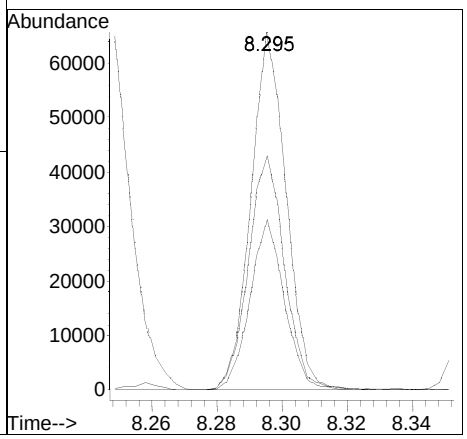


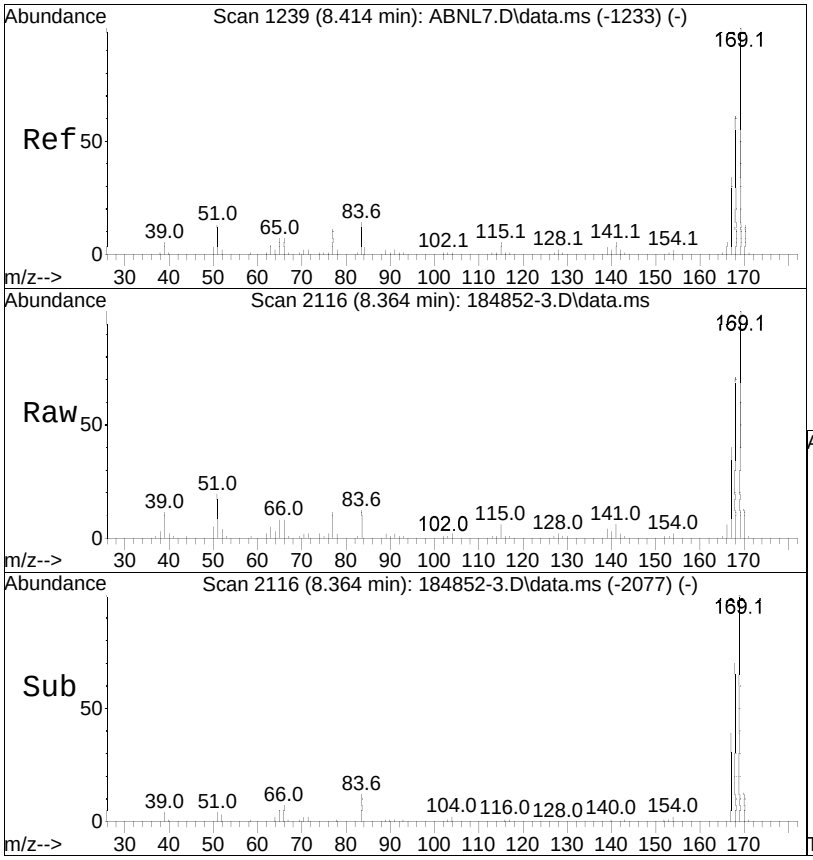


#75
4,6-Dinitro-o-cresol
Concen: 31.59 ug/ml
RT: 8.295 min Scan# 2094
Delta R.T. -0.006 min
Lab File: 184852-3.D
Acq: 5 Dec 2018 5:49 pm

Tgt Ion:198 Resp: 49534

Ion	Ratio	Lower	Upper
198	100		
51	66.4	48.3	72.5
105	46.8	38.4	57.6

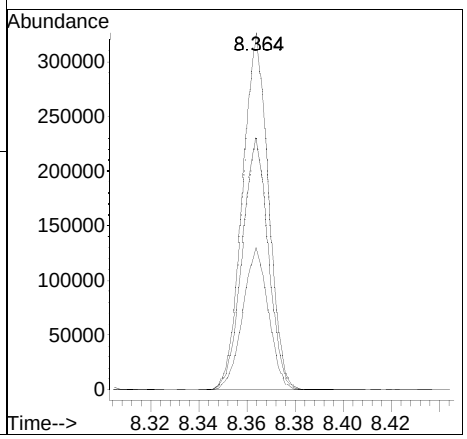


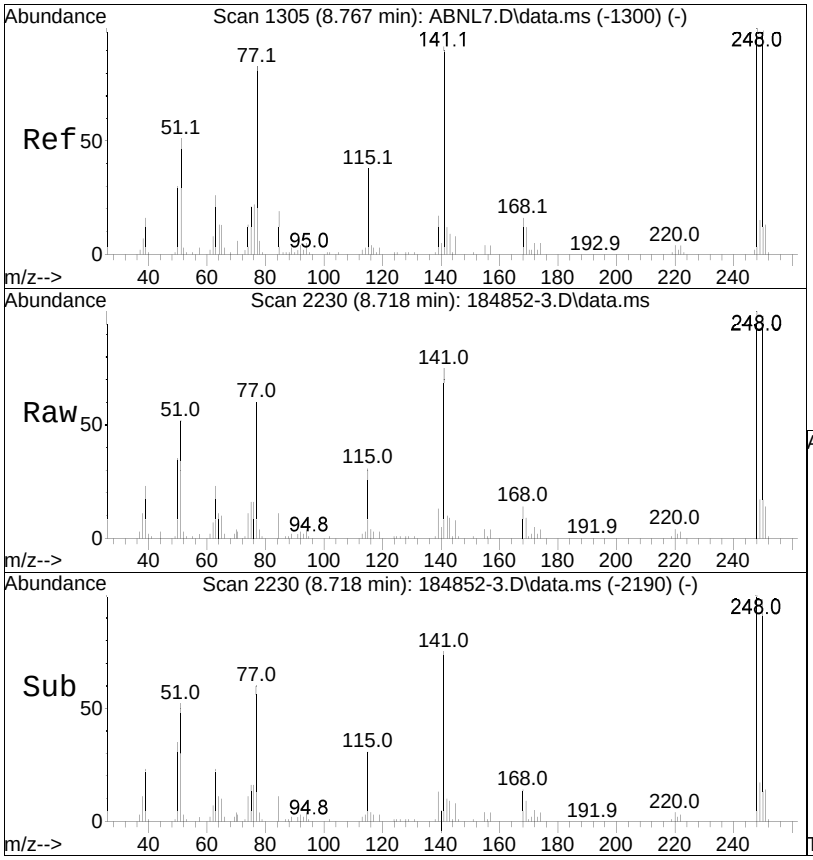


#76
NDPA/DPA
Concen: 30.09 ug/ml
RT: 8.364 min Scan# 2116
Delta R.T. -0.003 min
Lab File: 184852-3.D
Acq: 5 Dec 2018 5:49 pm

Tgt Ion:169 Resp: 244245

Ion	Ratio	Lower	Upper
169	100		
168	71.0	57.2	85.8
167	39.6	31.0	46.4

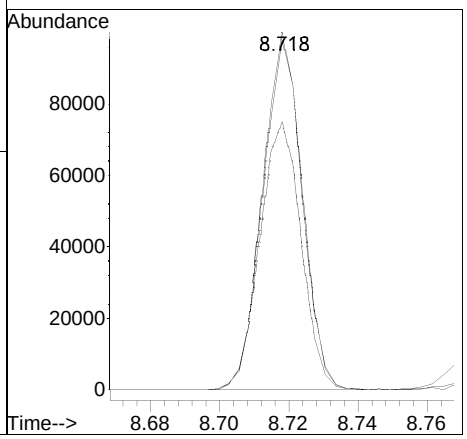


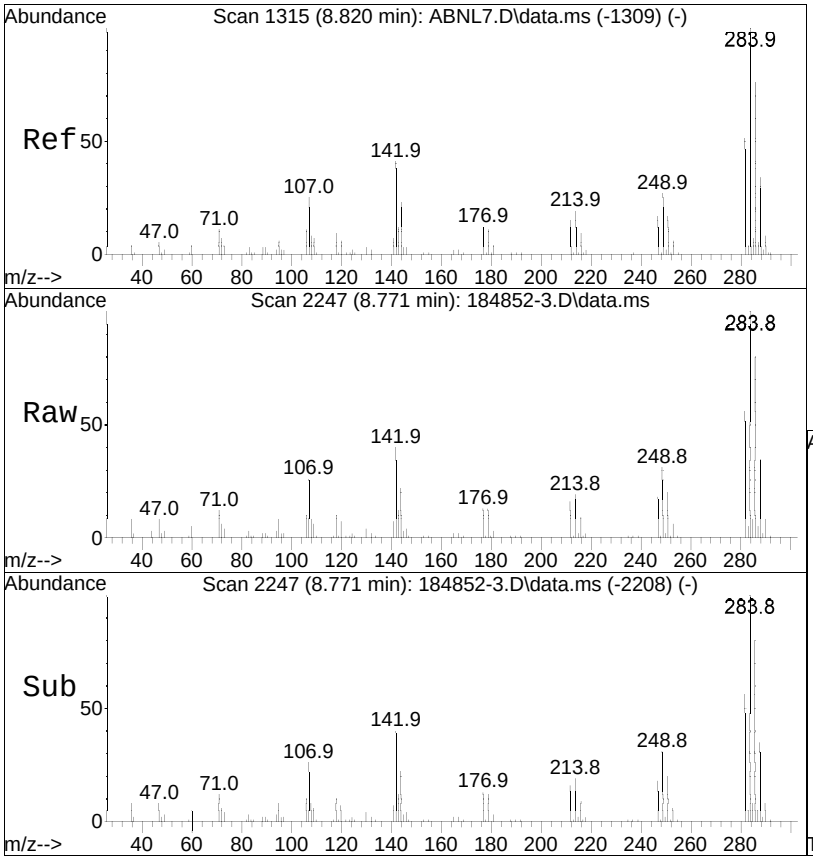


#79
4-Bromophenyl phenyl ether
Concen: 28.00 ug/ml
RT: 8.718 min Scan# 2230
Delta R.T. 0.000 min
Lab File: 184852-3.D
Acq: 5 Dec 2018 5:49 pm

Tgt Ion:248 Resp: 79106

Ion	Ratio	Lower	Upper
248	100		
141	77.8	59.9	89.9
250	97.7	78.0	117.0

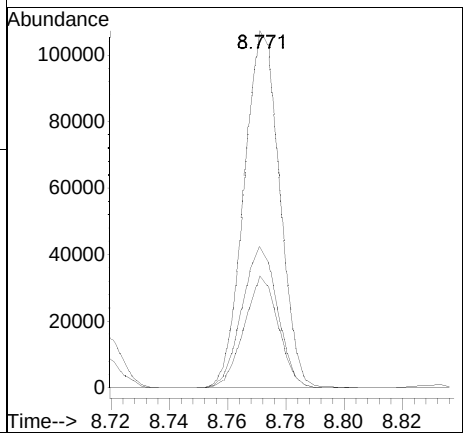


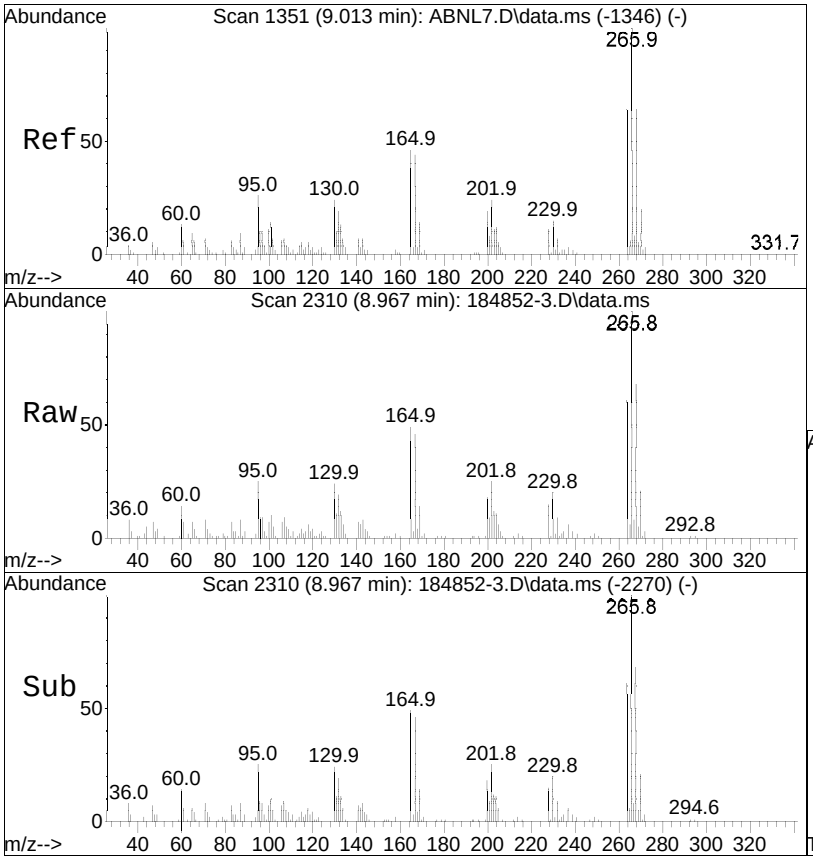


#80
Hexachlorobenzene
Concen: 26.03 ug/ml
RT: 8.771 min Scan# 2247
Delta R.T. -0.003 min
Lab File: 184852-3.D
Acq: 5 Dec 2018 5:49 pm

Tgt Ion:284 Resp: 91166

Ion	Ratio	Lower	Upper
284	100		
142	39.5	30.6	46.0
249	30.1	24.2	36.2

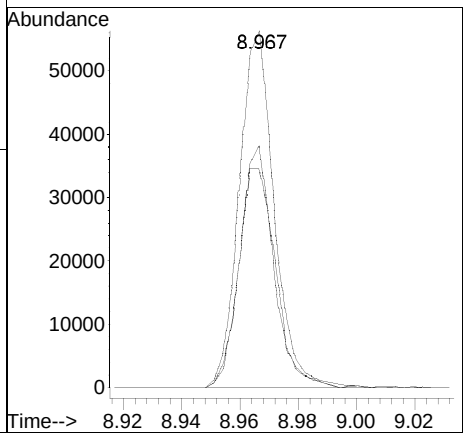


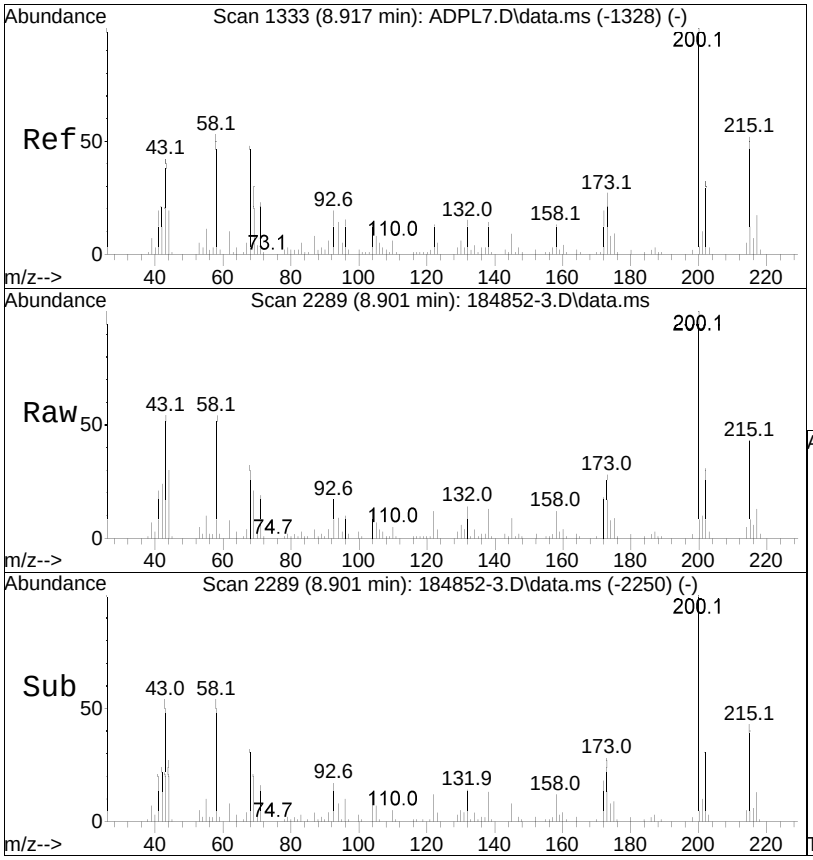


#81
Pentachlorophenol
Concen: 22.73 ug/ml
RT: 8.967 min Scan# 2310
Delta R.T. 0.000 min
Lab File: 184852-3.D
Acq: 5 Dec 2018 5:49 pm

Tgt Ion:266 Resp: 46995

Ion	Ratio	Lower	Upper
266	100		
264	63.8	50.2	75.4
268	67.3	50.7	76.1

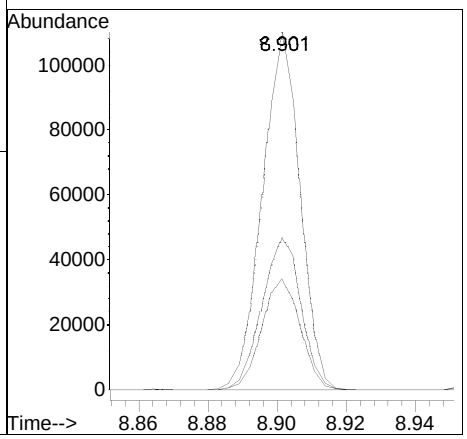


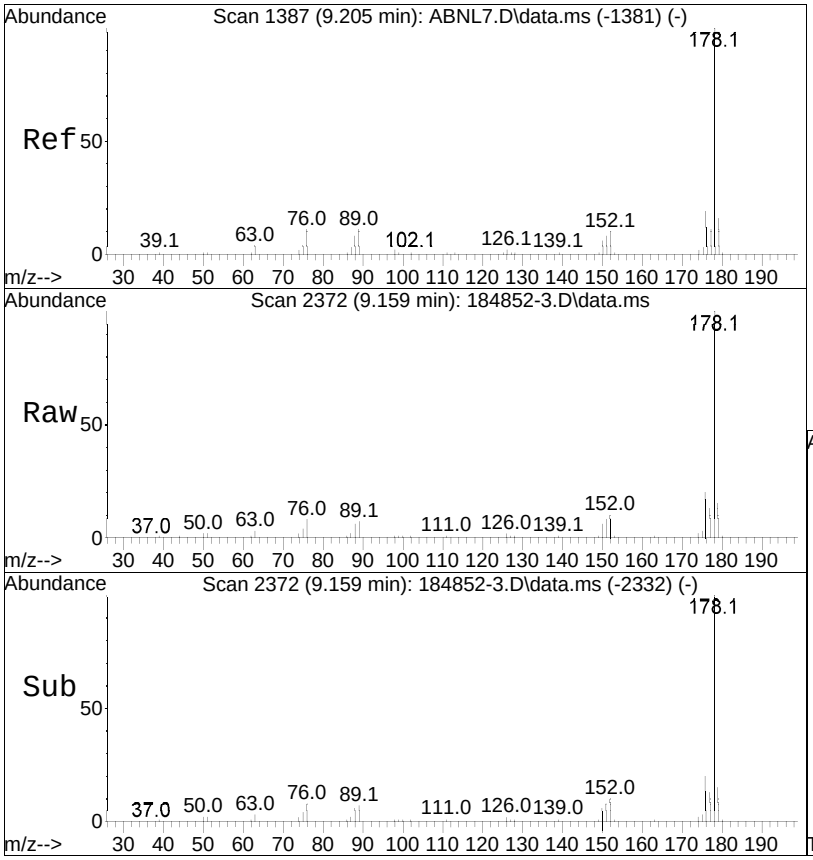


#86
Atrazine
Concen: 36.79 ug/ml
RT: 8.901 min Scan# 2289
Delta R.T. -0.003 min
Lab File: 184852-3.D
Acq: 5 Dec 2018 5:49 pm

Tgt Ion:200 Resp: 82773

Ion	Ratio	Lower	Upper
200	100		
202	32.0	26.1	39.1
215	44.2	36.2	54.2

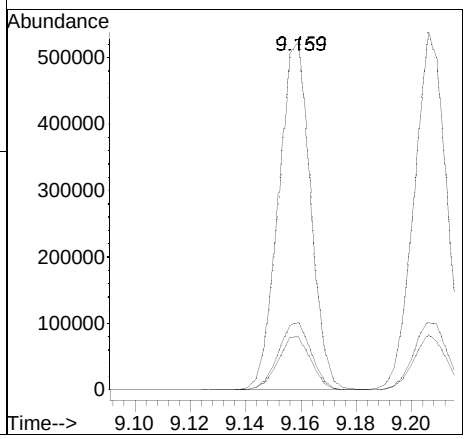


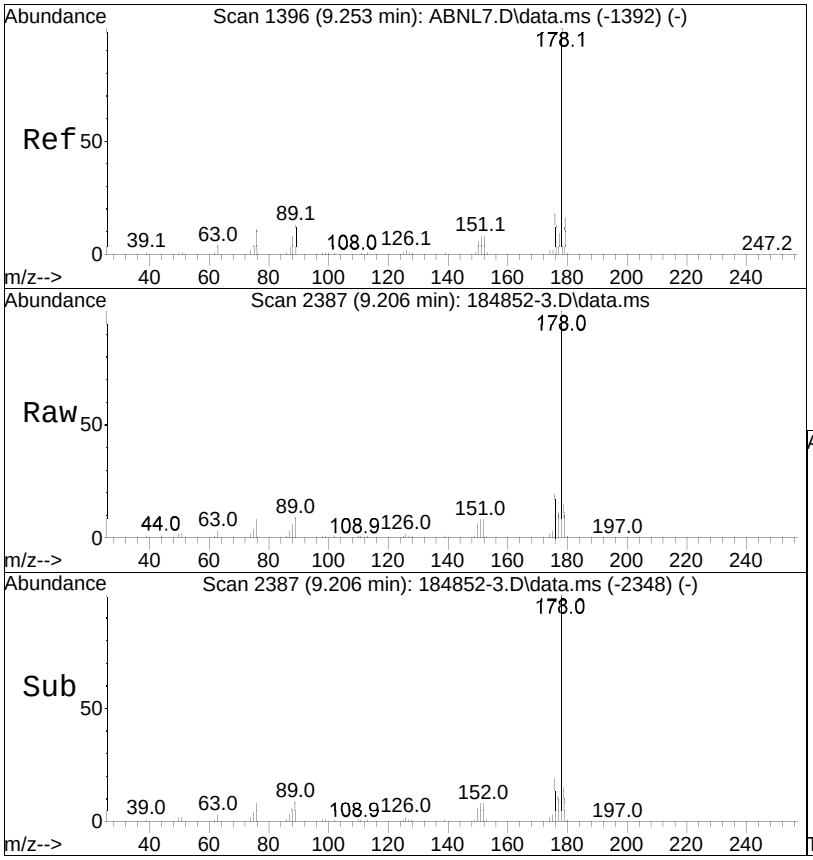


#88
Phenanthrene
Concen: 26.85 ug/ml
RT: 9.159 min Scan# 2372
Delta R.T. 0.000 min
Lab File: 184852-3.D
Acq: 5 Dec 2018 5:49 pm

Tgt Ion:178 Resp: 422640

Ion	Ratio	Lower	Upper
178	100		
179	15.6	12.2	18.4
176	19.8	15.5	23.3

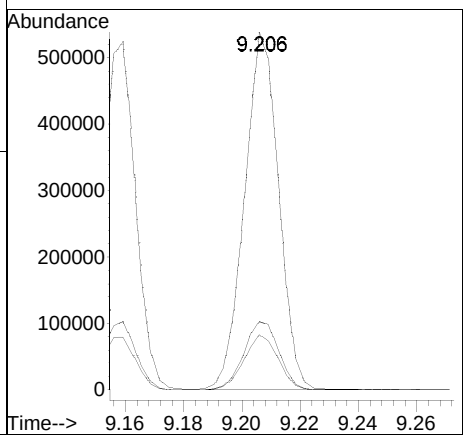


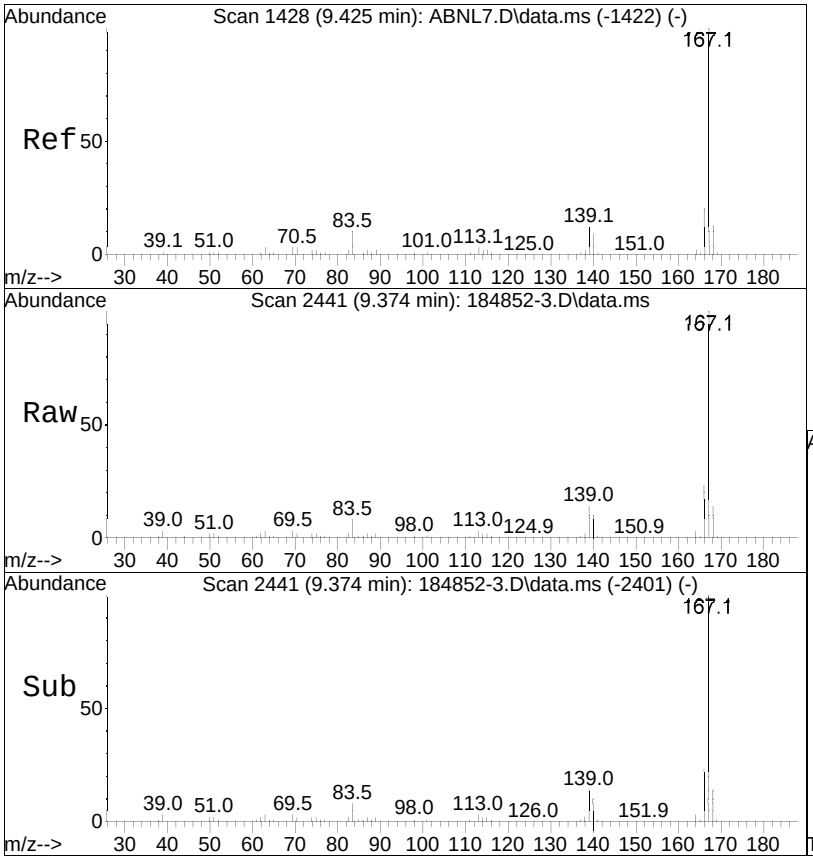


#89
Anthracene
Concen: 27.93 ug/ml
RT: 9.206 min Scan# 2387
Delta R.T. -0.003 min
Lab File: 184852-3.D
Acq: 5 Dec 2018 5:49 pm

Tgt Ion:178 Resp: 436362

Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.3	18.5
176	19.7	15.0	22.6

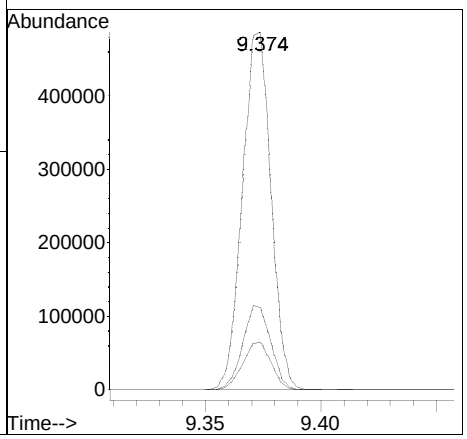


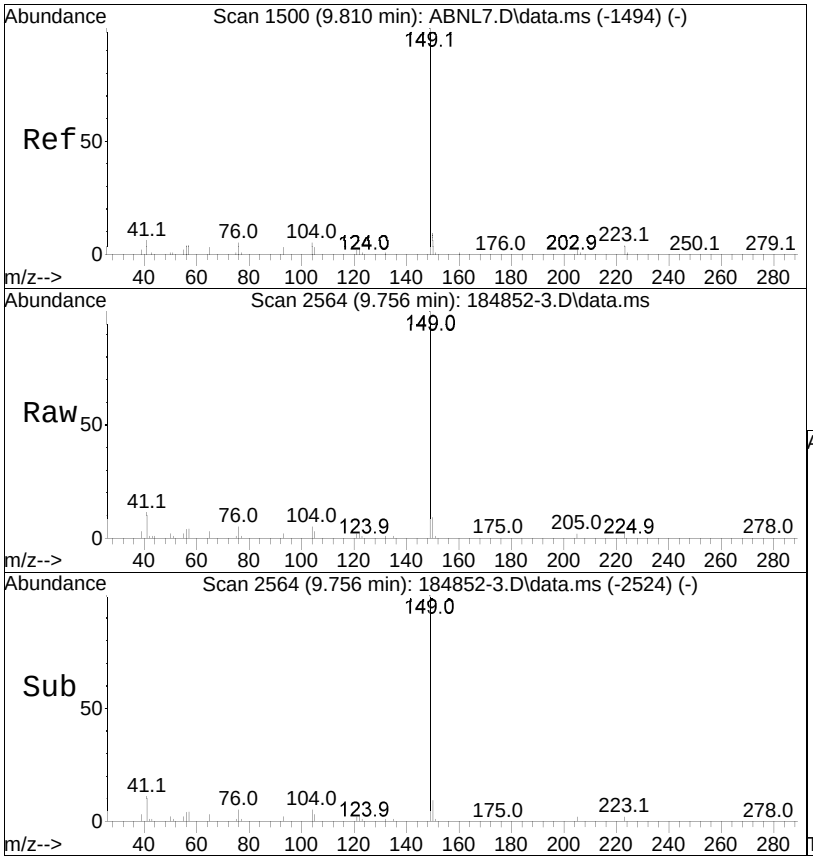


#90
Carbazole
Concen: 28.56 ug/ml
RT: 9.374 min Scan# 2441
Delta R.T. 0.000 min
Lab File: 184852-3.D
Acq: 5 Dec 2018 5:49 pm

Tgt Ion:167 Resp: 414977

Ion	Ratio	Lower	Upper
167	100		
168	13.5	10.6	16.0
166	23.2	18.0	27.0

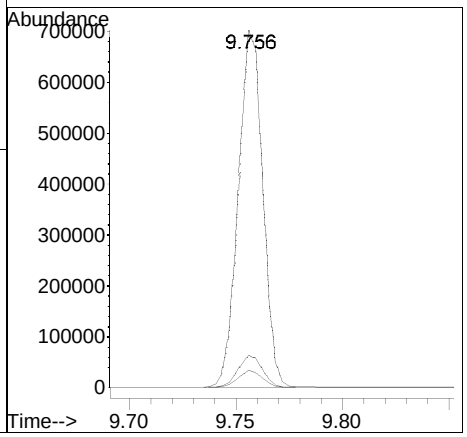


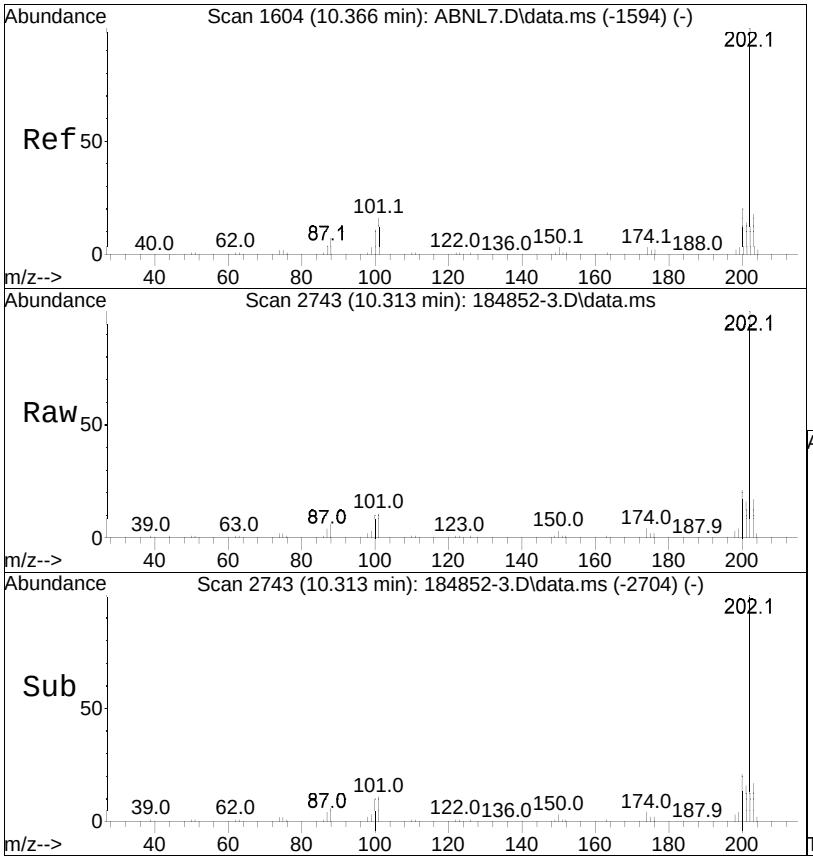


#91
Di-n-butylphthalate
Concen: 30.53 ug/ml
RT: 9.756 min Scan# 2564
Delta R.T. 0.000 min
Lab File: 184852-3.D
Acq: 5 Dec 2018 5:49 pm

Tgt Ion:149 Resp: 553892

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.3	10.9
104	4.7	3.6	5.4

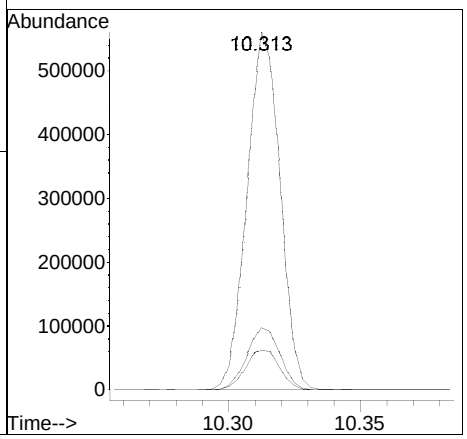


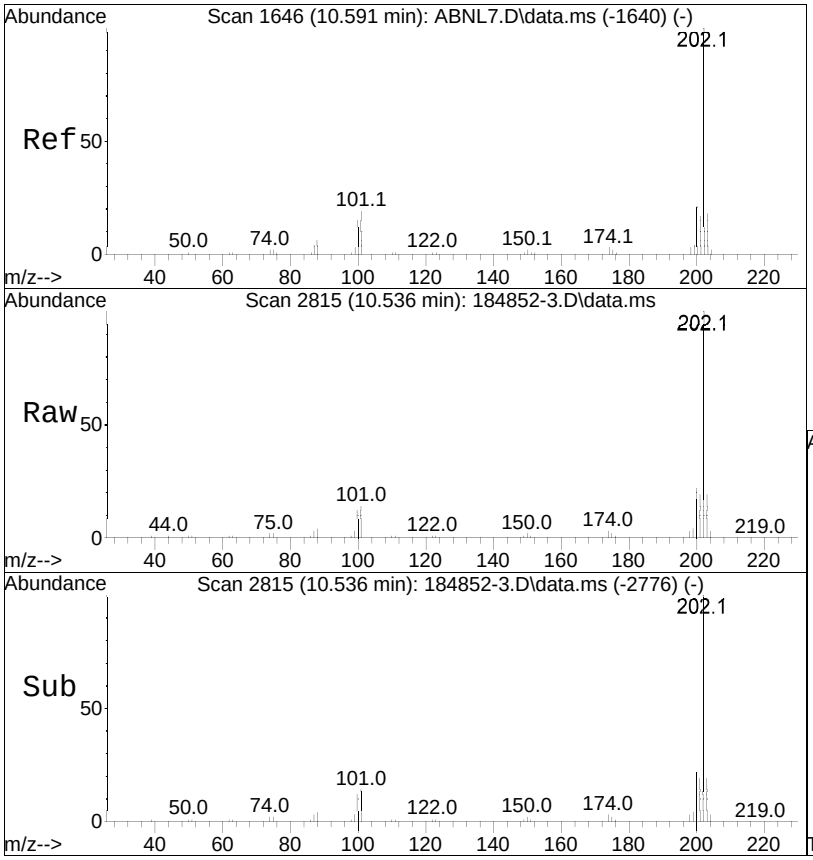


#92
Fluoranthene
Concen: 29.02 ug/ml
RT: 10.313 min Scan# 2743
Delta R.T. -0.003 min
Lab File: 184852-3.D
Acq: 5 Dec 2018 5:49 pm

Tgt Ion:202 Resp: 483292

Ion	Ratio	Lower	Upper
202	100		
101	11.7	11.2	16.8
203	17.6	13.8	20.6

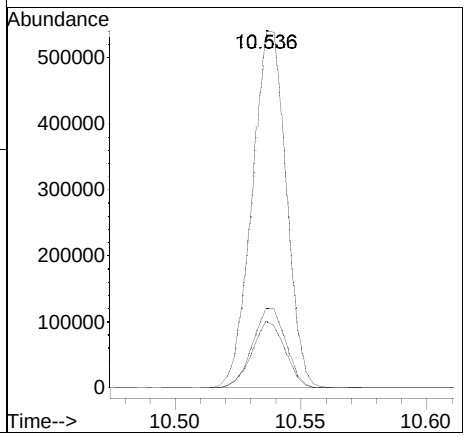


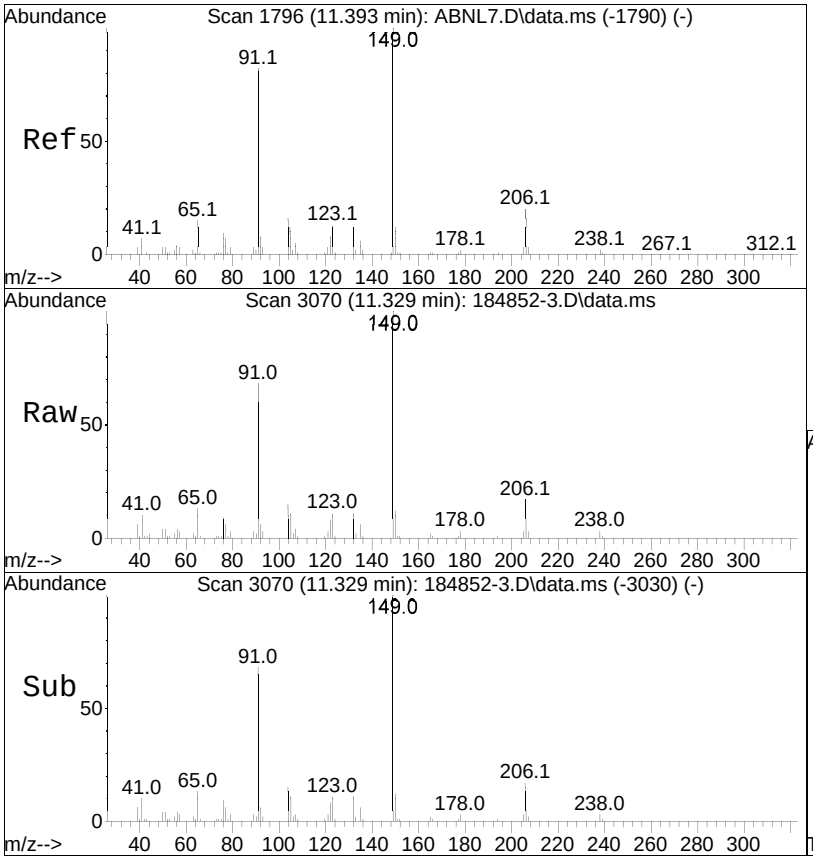


#94
Pyrene
Concen: 28.84 ug/ml
RT: 10.536 min Scan# 2815
Delta R.T. -0.003 min
Lab File: 184852-3.D
Acq: 5 Dec 2018 5:49 pm

Tgt Ion:202 Resp: 504884

Ion	Ratio	Lower	Upper
202	100		
200	21.9	17.0	25.4
203	18.1	14.2	21.4

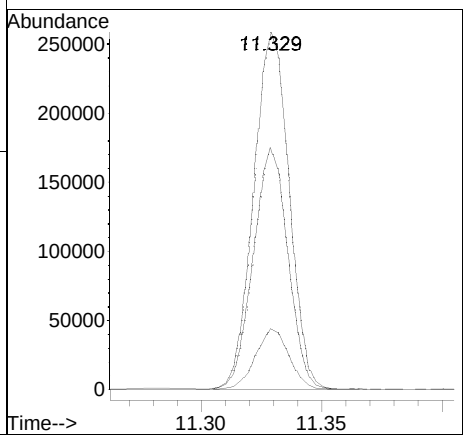


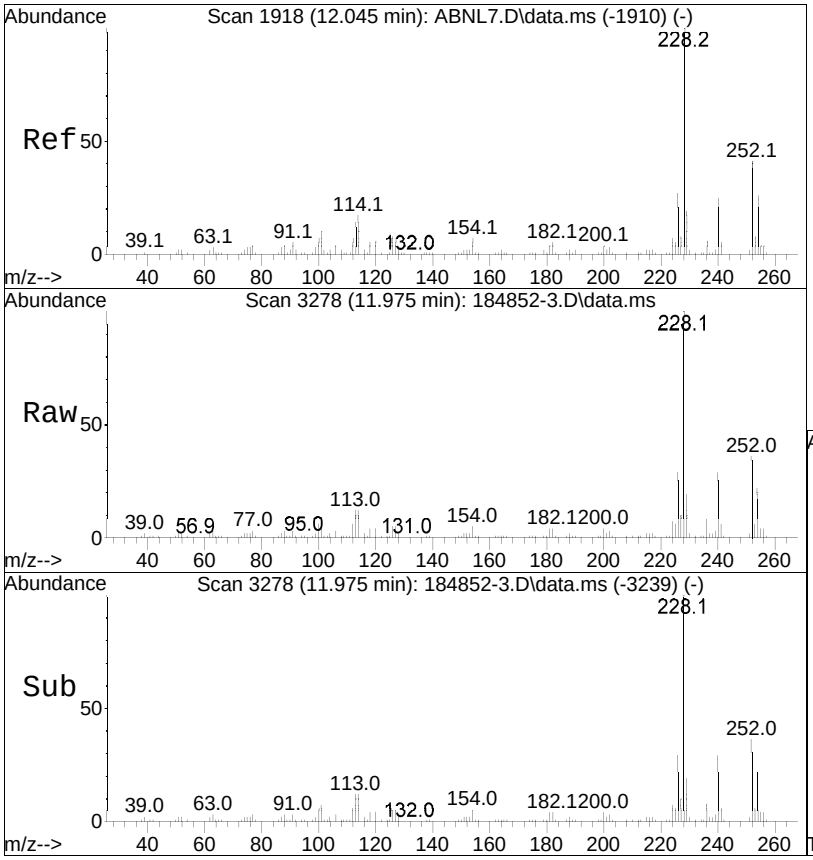


#96
Butyl benzyl phthalate
Concen: 33.29 ug/ml
RT: 11.329 min Scan# 3070
Delta R.T. 0.000 min
Lab File: 184852-3.D
Acq: 5 Dec 2018 5:49 pm

Tgt Ion:149 Resp: 262587

Ion	Ratio	Lower	Upper
149	100		
91	66.2	54.6	81.8
206	16.2	12.5	18.7

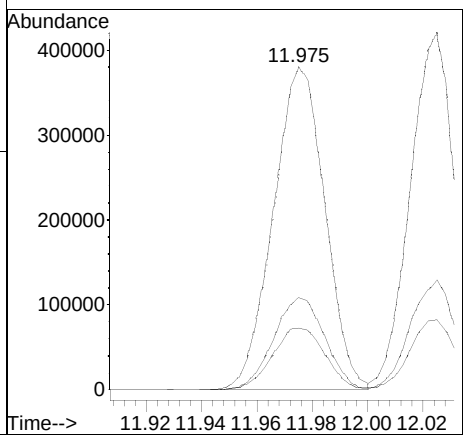


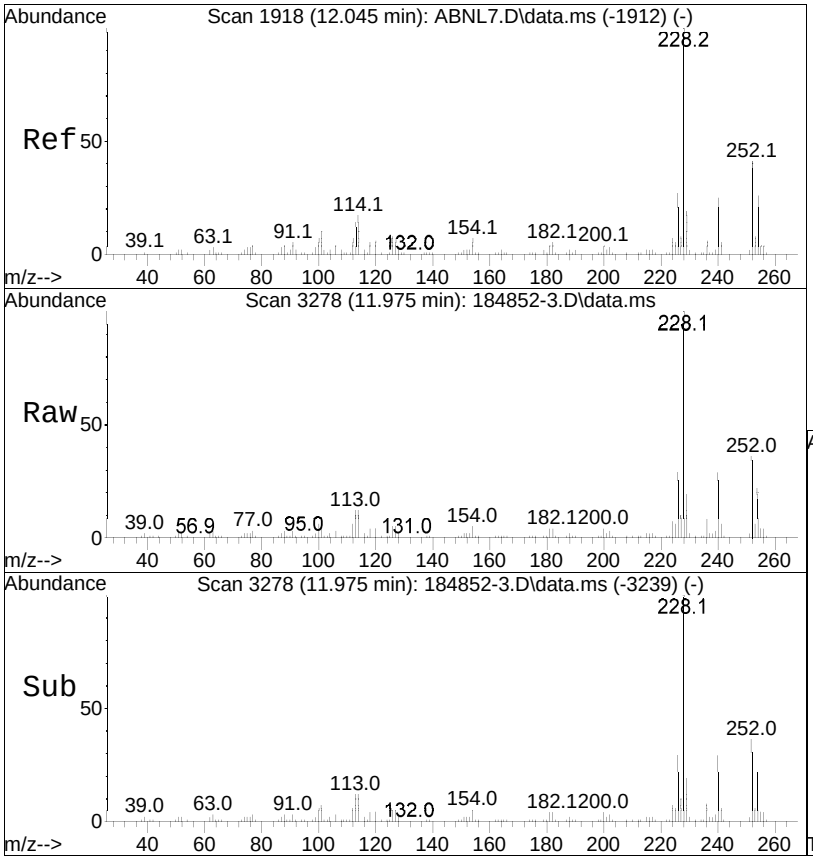


#104
Benzo(a)anthracene
Concen: 28.01 ug/ml
RT: 11.975 min Scan# 3278
Delta R.T. -0.003 min
Lab File: 184852-3.D
Acq: 5 Dec 2018 5:49 pm

Tgt Ion:228 Resp: 492178

Ion	Ratio	Lower	Upper
228	100		
226	28.4	22.2	33.4
229	19.6	15.6	23.4

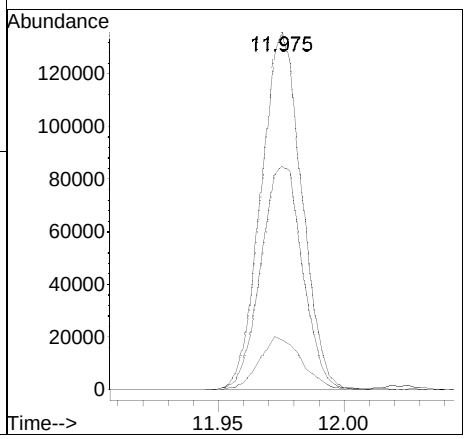


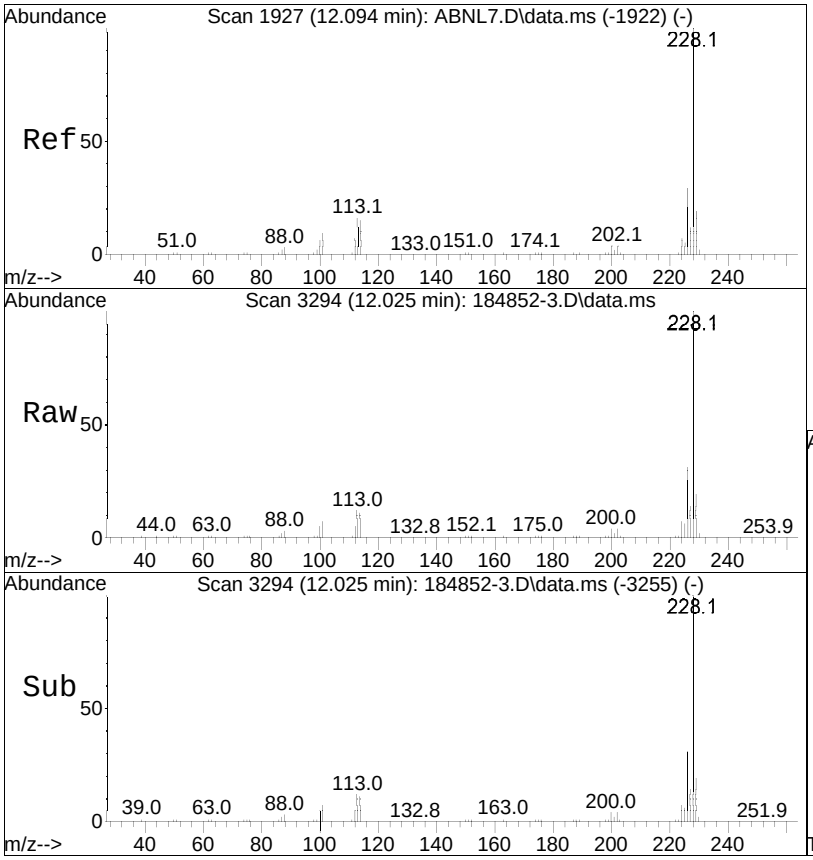


#105
3,3'-Dichlorobenzidine
Concen: 21.99 ug/ml
RT: 11.975 min Scan# 3278
Delta R.T. -0.003 min
Lab File: 184852-3.D
Acq: 5 Dec 2018 5:49 pm

Tgt Ion:252 Resp: 151647

Ion	Ratio	Lower	Upper
252	100		
126	15.7	12.4	18.6
254	64.4	51.8	77.6

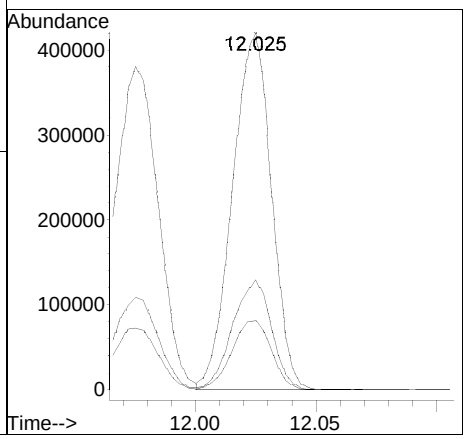


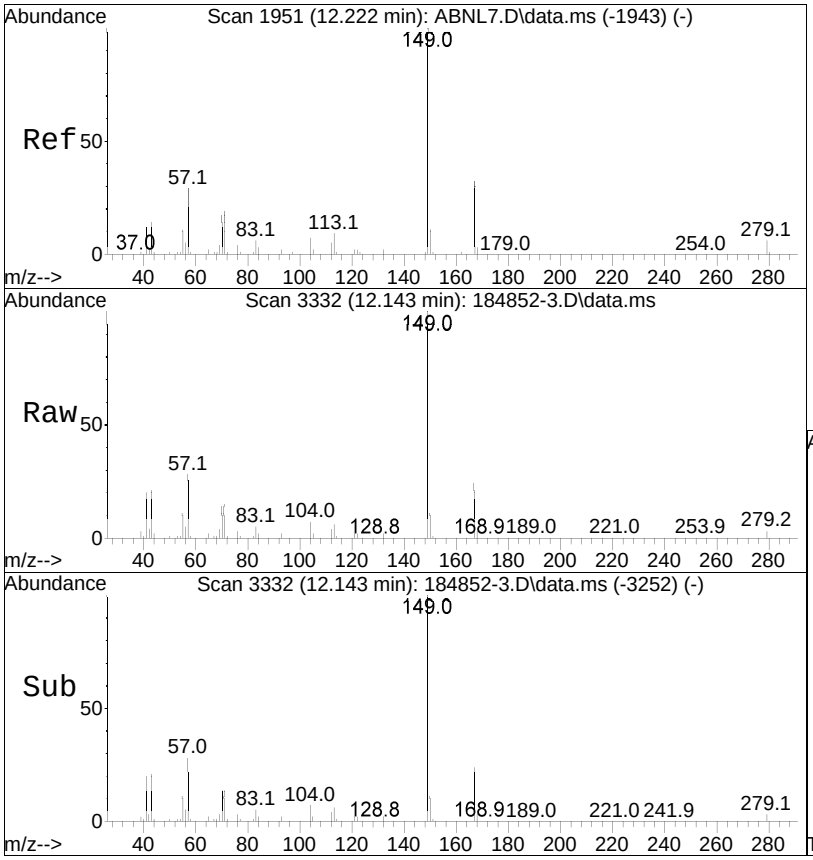


#106
Chrysene
Concen: 28.01 ug/ml
RT: 12.025 min Scan# 3294
Delta R.T. -0.003 min
Lab File: 184852-3.D
Acq: 5 Dec 2018 5:49 pm

Tgt Ion:228 Resp: 472034

Ion	Ratio	Lower	Upper
228	100		
226	30.7	24.3	36.5
229	19.8	15.5	23.3

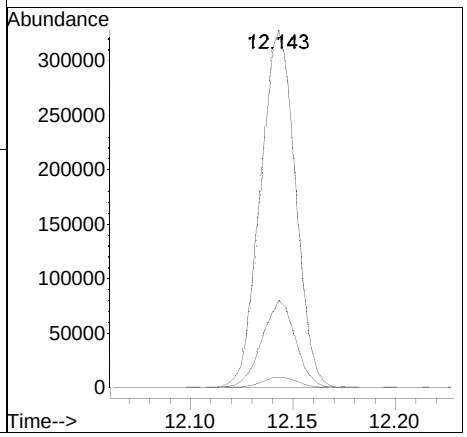


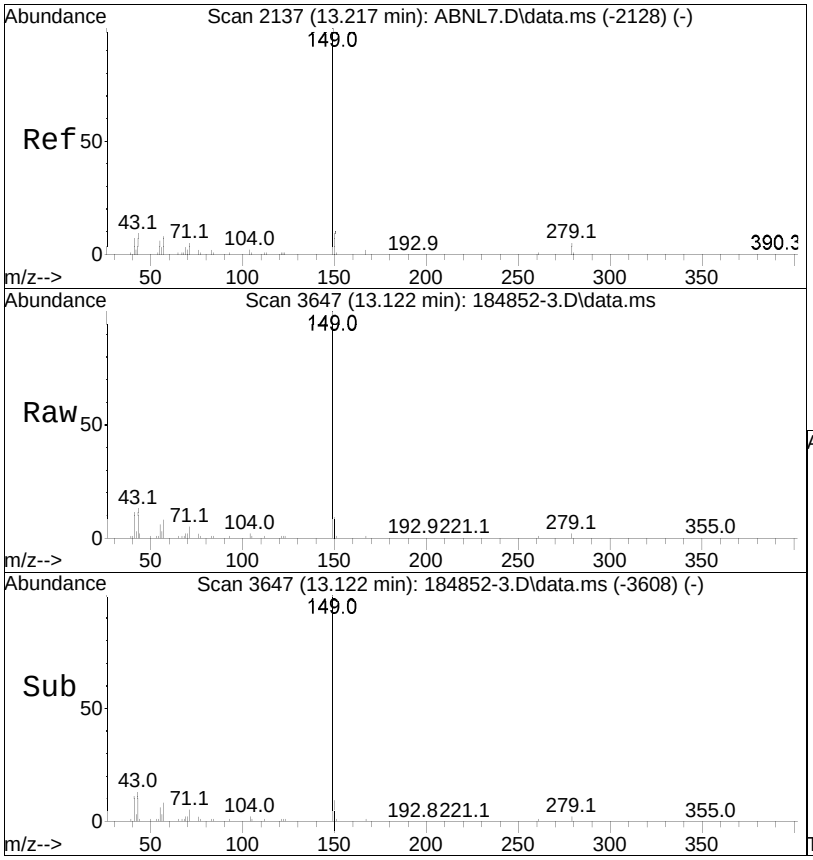


#107
Bis(2-ethylhexyl)phthalate
Concen: 33.72 ug/ml
RT: 12.143 min Scan# 3332
Delta R.T. 0.000 min
Lab File: 184852-3.D
Acq: 5 Dec 2018 5:49 pm

Tgt Ion:149 Resp: 386326

Ion	Ratio	Lower	Upper
149	100		
167	23.6	19.0	28.6
279	2.7	2.0	3.0

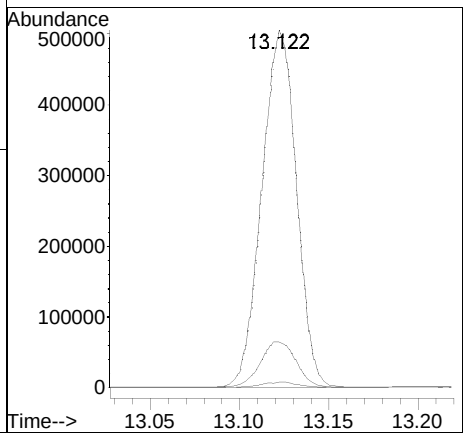


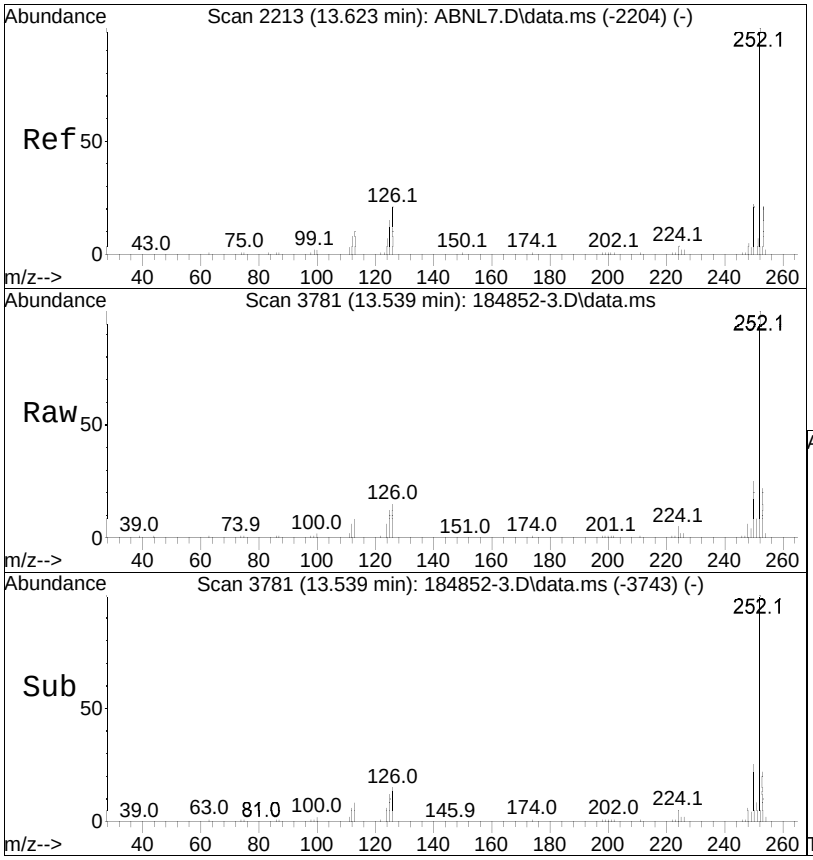


#108
Di-n-octylphthalate
Concen: 35.58 ug/ml
RT: 13.122 min Scan# 3647
Delta R.T. -0.003 min
Lab File: 184852-3.D
Acq: 5 Dec 2018 5:49 pm

Tgt Ion:149 Resp: 672536

Ion	Ratio	Lower	Upper
149	100		
43	13.3	9.0	13.4
167	1.4	1.1	1.7

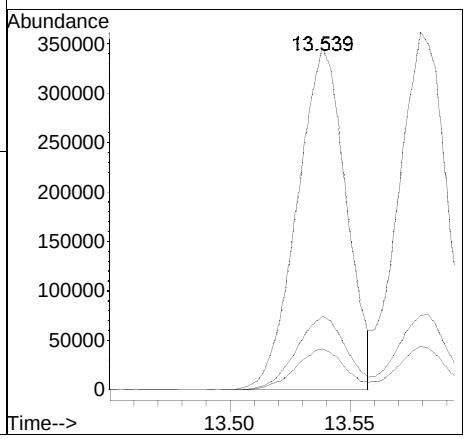


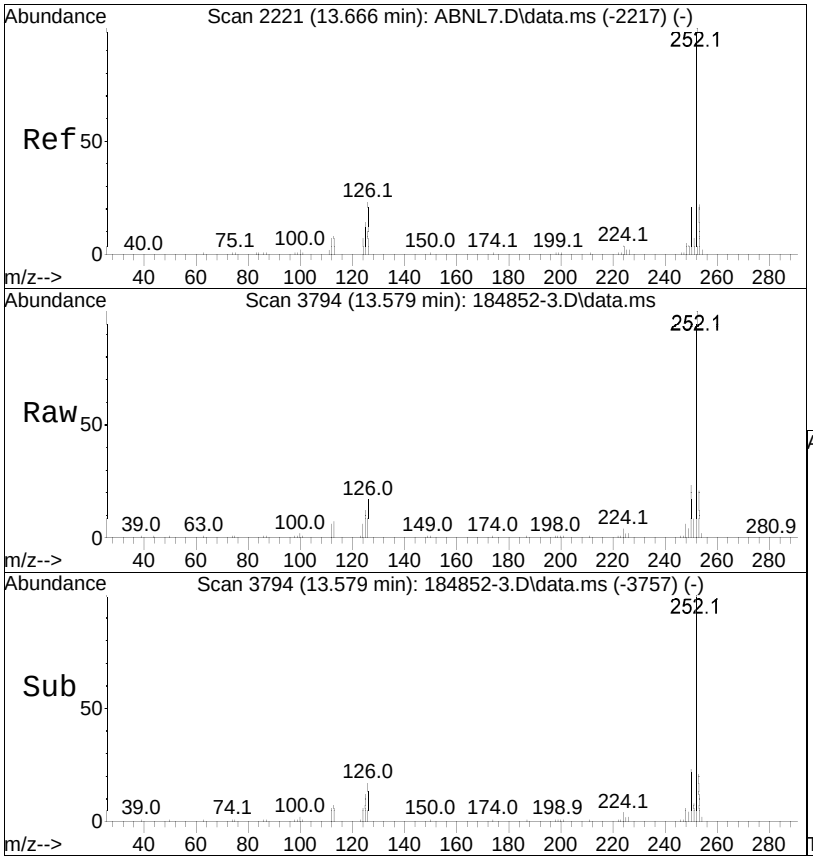


#109
Benzo(b)fluoranthene
Concen: 30.75 ug/ml
RT: 13.539 min Scan# 3781
Delta R.T. -0.006 min
Lab File: 184852-3.D
Acq: 5 Dec 2018 5:49 pm

Tgt Ion:252 Resp: 487862

Ion	Ratio	Lower	Upper
252	100		
125	12.1	11.4	17.0
253	21.9	17.5	26.3

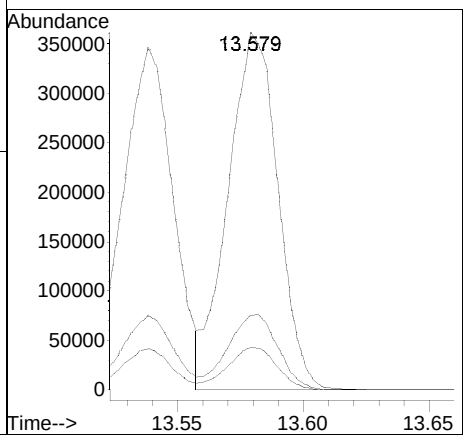


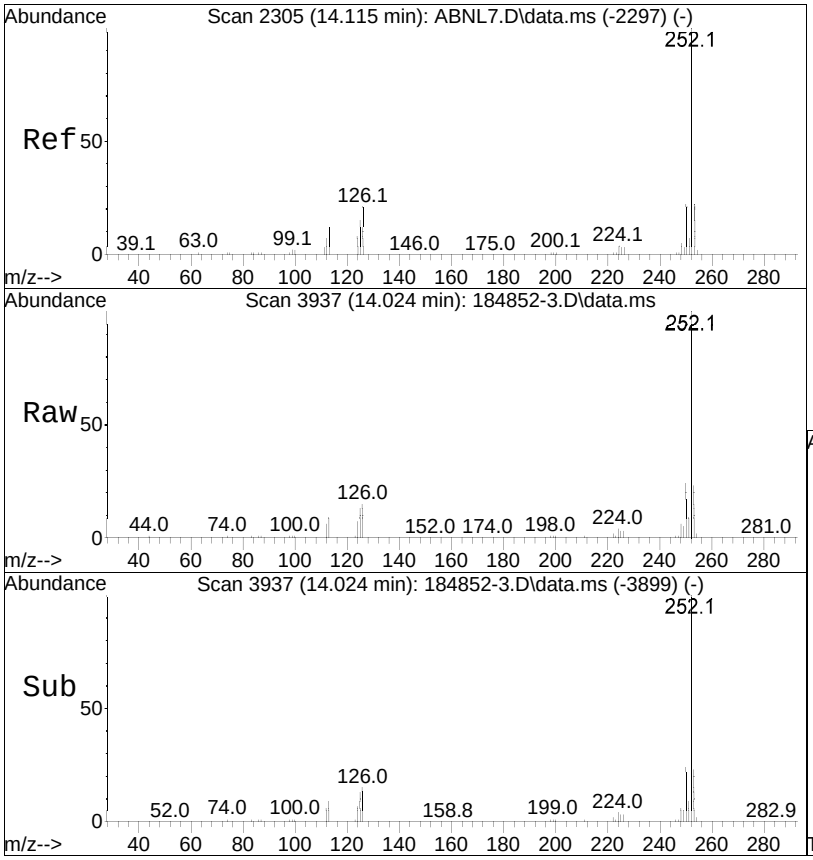


#110
Benzo(k)fluoranthene
Concen: 28.51 ug/ml
RT: 13.579 min Scan# 3794
Delta R.T. -0.009 min
Lab File: 184852-3.D
Acq: 5 Dec 2018 5:49 pm

Tgt Ion:252 Resp: 495868

Ion	Ratio	Lower	Upper
252	100		
125	12.0	11.0	16.6
253	21.5	17.4	26.0

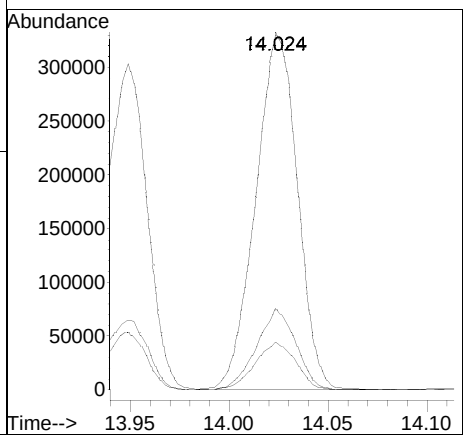


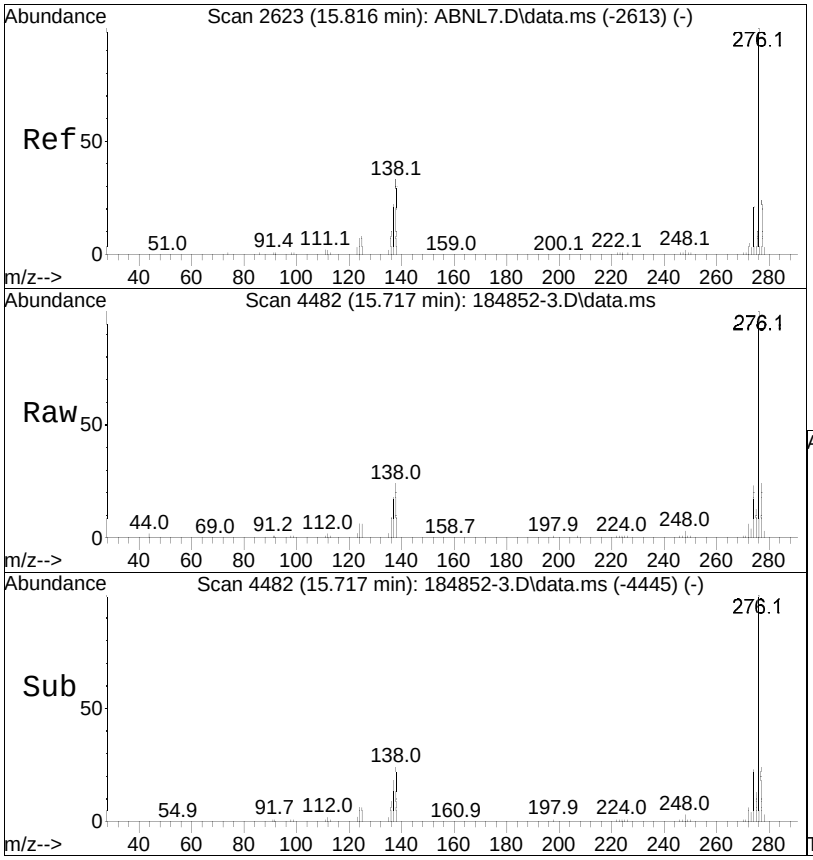


#111
Benzo(a)pyrene
Concen: 30.29 ug/ml
RT: 14.024 min Scan# 3937
Delta R.T. -0.006 min
Lab File: 184852-3.D
Acq: 5 Dec 2018 5:49 pm

Tgt Ion:252 Resp: 484759

Ion	Ratio	Lower	Upper
252	100		
125	13.3	12.4	18.6
253	21.6	17.6	26.4

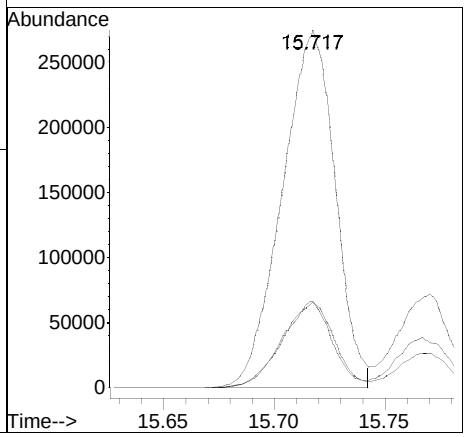


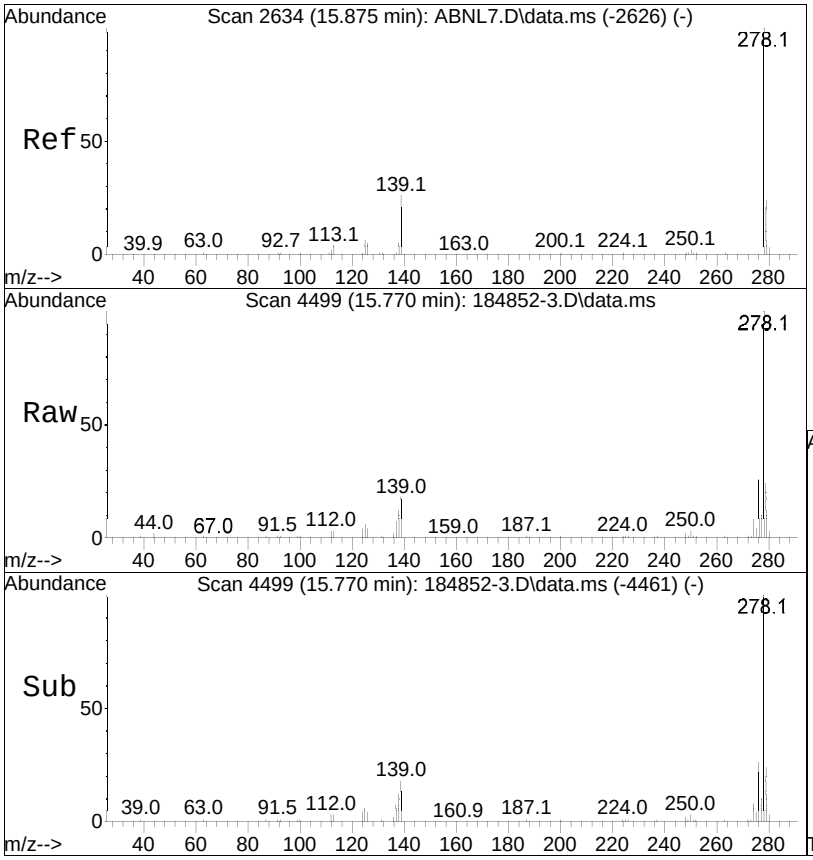


#113
Indeno(1,2,3-cd)pyrene
Concen: 29.60 ug/ml
RT: 15.717 min Scan# 4482
Delta R.T. -0.009 min
Lab File: 184852-3.D
Acq: 5 Dec 2018 5:49 pm

Tgt Ion:276 Resp: 454732

Ion	Ratio	Lower	Upper
276	100		
138	23.3	21.0	31.6
277	23.7	19.1	28.7

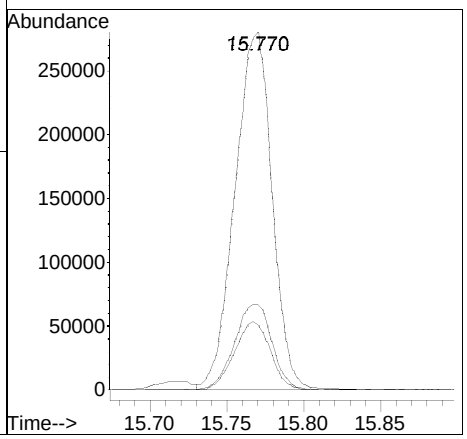


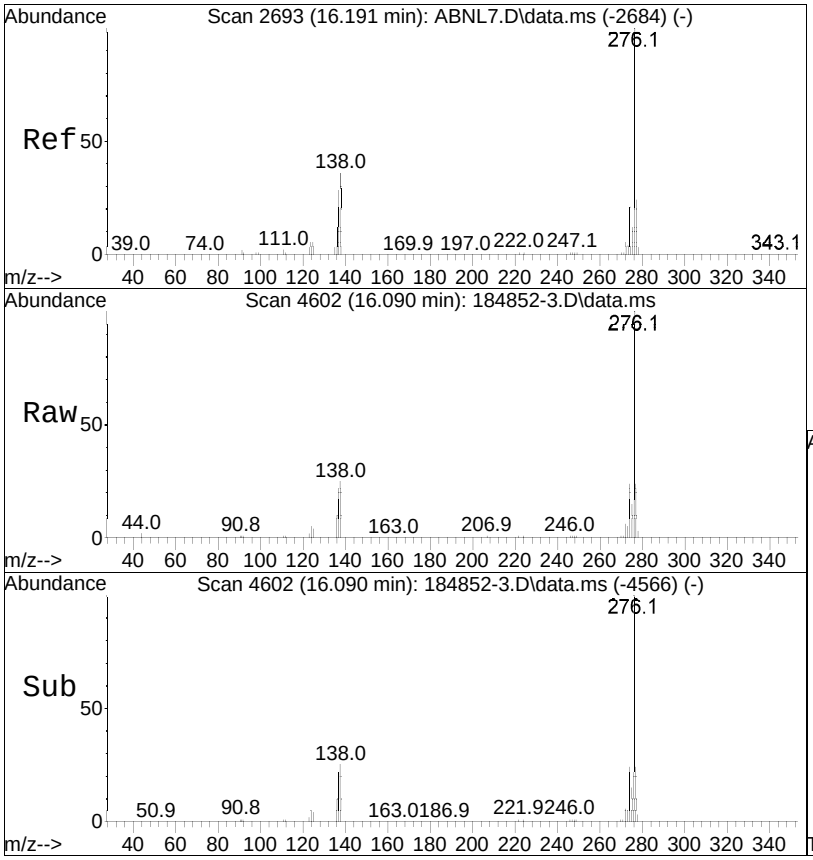


#114
Dibenzo(a,h)anthracene
Concen: 28.85 ug/ml
RT: 15.770 min Scan# 4499
Delta R.T. -0.006 min
Lab File: 184852-3.D
Acq: 5 Dec 2018 5:49 pm

Tgt Ion:278 Resp: 466246

Ion	Ratio	Lower	Upper
278	100		
139	18.7	16.9	25.3
279	24.2	19.2	28.8

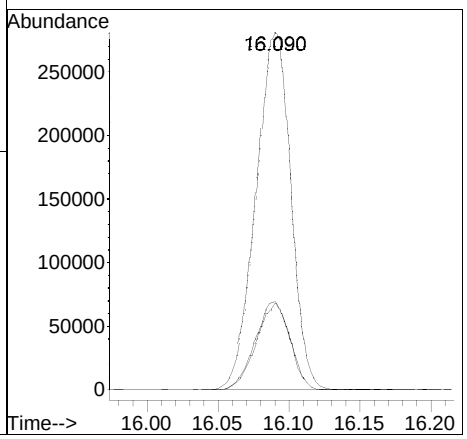




#115
Benzo(ghi)perylene
Concen: 27.84 ug/ml
RT: 16.090 min Scan# 4602
Delta R.T. -0.012 min
Lab File: 184852-3.D
Acq: 5 Dec 2018 5:49 pm

Tgt Ion:276 Resp: 478618

Ion	Ratio	Lower	Upper
276	100		
138	24.6	22.9	34.3
277	23.8	18.9	28.3



Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181209\
Data File : 184852-4.d
Acq On : 9 Dec 2018 10:11 pm
Operator : SV103:rc
Sample : wg1184852-4d,32,5,ny,rv,kr
Misc : wg1187317,wg1184852,ical15305
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 10 08:43:34 2018
Quant Method : I:\8270\SV103\181209\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 10 08:06:53 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\181209\ABN1209.d
: 2 - I:\8270\SV103\181209\ADP1209.d
: 3 - I:\8270\SV103\181209\AP91209.d
Sub List : 8270TCL_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.776	152	61157	40.000	ug/ml	0.00
Standard Area 1 = 67385			Recovery = 90.76%			
27) IS2_1,4-Dichlorobenzen...	4.776	152	61157	40.000	ug/ml	0.00
Standard Area 3 = 68471			Recovery = 89.32%			
34) IS1_Naphthalene-d8	6.017	136	259494	40.000	ug/ml	0.00
Standard Area 1 = 288220			Recovery = 90.03%			
54) IS2_Naphthalene-d8	6.017	136	259494	40.000	ug/ml	0.00
Standard Area 3 = 296762			Recovery = 87.44%			
62) IS1_Acenaphthene-d10	7.728	164	114720	40.000	ug/ml	0.00
Standard Area 1 = 144644			Recovery = 79.31%			
82) IS2_Acenaphthene-d10	7.728	164	114720	40.000	ug/ml	0.00
Standard Area 3 = 152009			Recovery = 75.47%			
85) IS3_Acenaphthene-d10	7.728	164	114720	40.000	ug/ml	0.00
Standard Area 2 = 132109			Recovery = 86.84%			
87) IS1_Phenanthrene-d10	9.166	188	206703	40.000	ug/ml	0.00
Standard Area 1 = 243640			Recovery = 84.84%			
99) IS3_Phenanthrene-d10	9.166	188	206703	40.000	ug/ml	0.00
Standard Area 2 = 225714			Recovery = 91.58%			
103) IS1_Chrysene-d12	12.035	240	168301	40.000	ug/ml	# 0.00
Standard Area 1 = 211435			Recovery = 79.60%			
112) IS1_Perylene-d12	14.189	264	173424	40.000	ug/ml	0.00
Standard Area 1 = 215613			Recovery = 80.43%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.505	112	9930	4.891	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 9.78%#			
7) Phenol-d6	4.469	99	12514	4.905	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 9.81%#			
19) Nitrobenzene-d5	5.321	82	2197	0.931	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 3.72%#			
45) 2-Fluorobiphenyl	7.091	172	11070	2.737	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 10.95%#			
78) 2,4,6-Tribromophenol	8.498	330	2562	5.385	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 10.77%#			
95) 4-Terphenyl-d14	10.774	244	9626	2.392	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 9.57%#			

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181209\
Data File : 184852-4.d
Acq On : 9 Dec 2018 10:11 pm
Operator : SV103:rc
Sample : wg1184852-4d,32,5,ny,rv,kr
Misc : wg1187317,wg1184852,ical15305
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 10 08:43:34 2018
Quant Method : I:\8270\SV103\181209\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 10 08:06:53 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\181209\ABN1209.d
: 2 - I:\8270\SV103\181209\ADP1209.d
: 3 - I:\8270\SV103\181209\AP91209.d
Sub List : 8270TCL_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	4.574	128	9014	4.014	ug/ml#	89
8) Phenol	4.480	94	16201	5.398	ug/ml#	90
9) Bis(2-chloroethyl)ether	4.537	93	8343	3.902	ug/ml	88
14) Bis(2-chloroisopropyl)...	5.074	45	14187	3.237	ug/ml	96
15) 2-Methylphenol	5.068	108	8541	4.266	ug/ml	98
16) Hexachloroethane	5.264	117	1931	2.071	ug/ml#	65
17) n-Nitrosodi-n-propylamine	5.196	70	6275	3.952	ug/ml#	87
18) 3-Methylphenol/4-Methy...	5.222	108	46488	22.259	ug/ml	91
20) Nitrobenzene	5.341	77	4088	1.712	ug/ml#	81
21) Isophorone	5.582	82	15991	3.946	ug/ml	95
22) 2-Nitrophenol	0.000		0	N.D.		
23) 2,4-Dimethylphenol	5.736	107	8399	4.158	ug/ml#	83
24) Bis(2-chloroethoxy)met...	5.816	93	10562	4.065	ug/ml	98
25) 2,4-Dichlorophenol	5.901	162	6579	3.973	ug/ml	97
28) Benzaldehyde	4.344	105	12058	6.763	ug/ml#	61
29) Acetophenone	5.179	105	14802	5.126	ug/ml	95
35) Naphthalene	6.037	128	31416	4.927	ug/ml	99
37) 4-Chloroaniline	6.114	65	932M3	1.161	ug/ml	
38) Hexachlorobutadiene	6.182	225	3438	4.227	ug/ml	97
39) p-Chloro-m-cresol	6.617	107	7268	4.158	ug/ml	96
40) 2-Methylnaphthalene	6.719	142	20348	4.831	ug/ml	96
42) Hexachlorocyclopentadiene	0.000		0	N.D.		
43) 2,4,6-Trichlorophenol	7.012	196	4427	4.117	ug/ml	97
44) 2,4,5-Trichlorophenol	7.046	196	4618	4.080	ug/ml	93
46) 2-Chloronaphthalene	7.188	162	15402	4.226	ug/ml	98
47) 2-Nitroaniline	7.304	138	3188	2.445	ug/ml#	84
50) Dimethyl phthalate	7.498	163	24785	6.010	ug/ml#	95
51) Acenaphthylene	7.589	152	25979	4.325	ug/ml	99
52) 2,6-Dinitrotoluene	7.546	165	1222	1.348	ug/ml#	16
59) Caprolactam	6.426	55	4964	4.505	ug/ml	94
60) 1,2,4,5-Tetrachloroben...	6.887	216	6871	4.871	ug/ml	98
61) Biphenyl	7.182	154	20854	4.576	ug/ml	96
63) 3-Nitroaniline	7.702	138	845M3	0.767	ug/ml	
64) Acenaphthene	7.759	154	15604	4.515	ug/ml	95
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	7.930	168	23064	4.580	ug/ml	96

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181209\
Data File : 184852-4.d
Acq On : 9 Dec 2018 10:11 pm
Operator : SV103:rc
Sample : wg1184852-4d,32,5,ny,rv,kr
Misc : wg1187317,wg1184852,ical15305
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 10 08:43:34 2018
Quant Method : I:\8270\SV103\181209\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 10 08:06:53 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\181209\ABN1209.d
: 2 - I:\8270\SV103\181209\ADP1209.d
: 3 - I:\8270\SV103\181209\AP91209.d
Sub List : 8270TCL_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
67) 2,4-Dinitrotoluene	7.935	165	1479	1.260	ug/ml#	51
68) 4-Nitrophenol	0.000		0	N.D.		
70) 2,3,4,6-Tetrachlorophenol	8.066	232	3254	3.702	ug/ml	99
71) Diethyl phthalate	8.188	149	18248	4.244	ug/ml	97
72) Fluorene	8.262	166	18612	4.597	ug/ml	96
73) 4-Chlorophenyl phenyl ...	8.276	204	7422	4.242	ug/ml	97
74) 4-Nitroaniline	8.296	138	1573	1.448	ug/ml#	74
75) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
76) NDPA/DPA	8.396	169	15015	4.392	ug/ml	96
79) 4-Bromophenyl phenyl e...	8.751	248	4243	4.508	ug/ml	95
80) Hexachlorobenzene	8.802	284	4541	4.460	ug/ml	94
81) Pentachlorophenol	9.001	266	1847	2.865	ug/ml	99
86) Atrazine	8.938	200	3886	4.372	ug/ml	94
88) Phenanthrene	9.188	178	41131	7.217	ug/ml	99
89) Anthracene	9.237	178	28079	4.952	ug/ml	98
90) Carbazole	9.410	167	25104	4.776	ug/ml	100
91) Di-n-butylphthalate	9.791	149	40049	5.953	ug/ml	99
92) Fluoranthene	10.348	202	58946	10.562	ug/ml#	96
94) Pyrene	10.572	202	54014	9.335	ug/ml	98
96) Butyl benzyl phthalate	11.373	149	20116	6.748	ug/ml	94
104) Benzo(a)anthracene	12.024	228	32379	6.538	ug/ml	97
105) 3,3'-Dichlorobenzidine	0.000		0	N.D.		
106) Chrysene	12.070	228	37678	8.056	ug/ml	99
107) Bis(2-ethylhexyl)phtha...	12.197	149	399603	102.176	ug/ml	100
108) Di-n-octylphthalate	13.189	149	52272	7.725	ug/ml#	6
109) Benzo(b)fluoranthene	13.610	252	41782	9.216	ug/ml#	93
110) Benzo(k)fluoranthene	13.647	252	27342	6.005	ug/ml	97
111) Benzo(a)pyrene	14.095	252	27577	6.274	ug/ml#	90
113) Indeno(1,2,3-cd)pyrene	15.803	276	26870	6.180	ug/mL#	73
114) Dibenzo(a,h)anthracene	15.857	278	20622	4.642	ug/ml#	91
115) Benzo(ghi)perylene	16.178	276	28336	6.147	ug/ml#	81

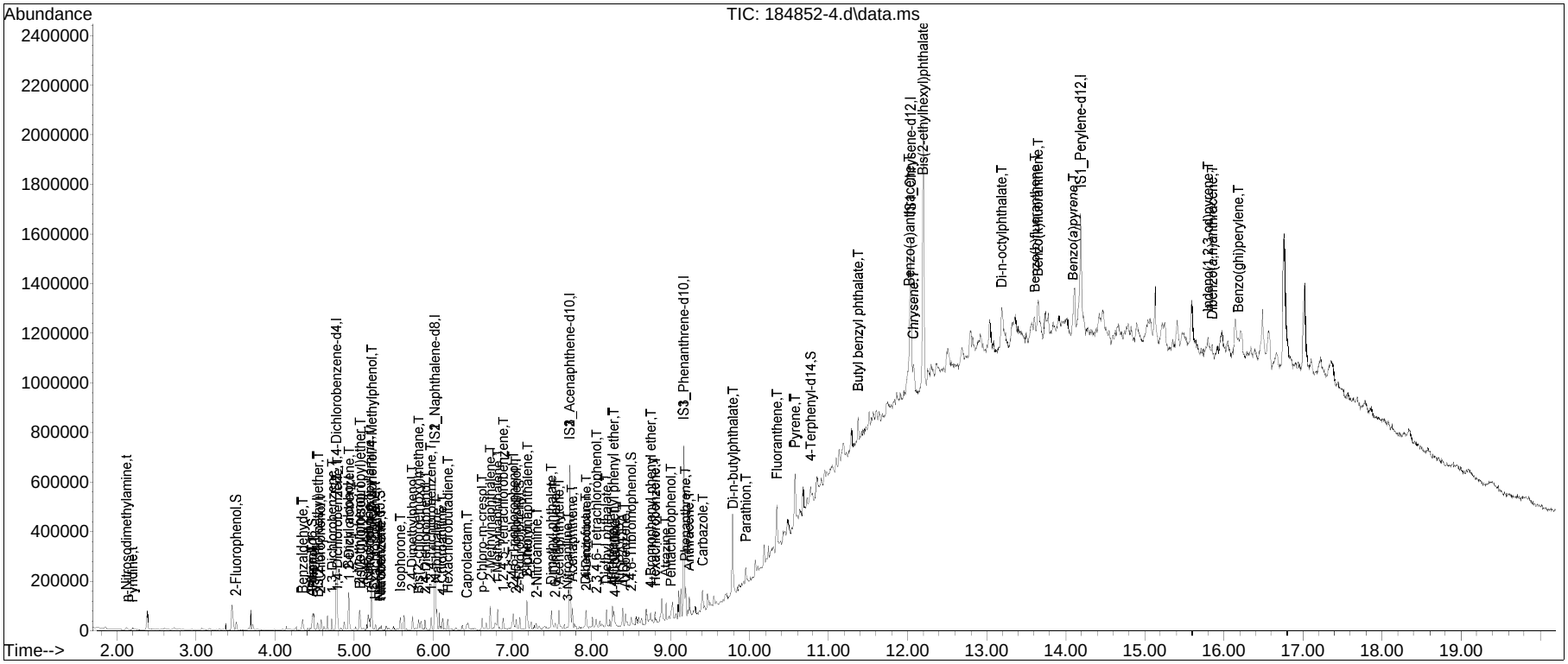
(#) = qualifier out of range (m) = manual integration (+) = signals summed

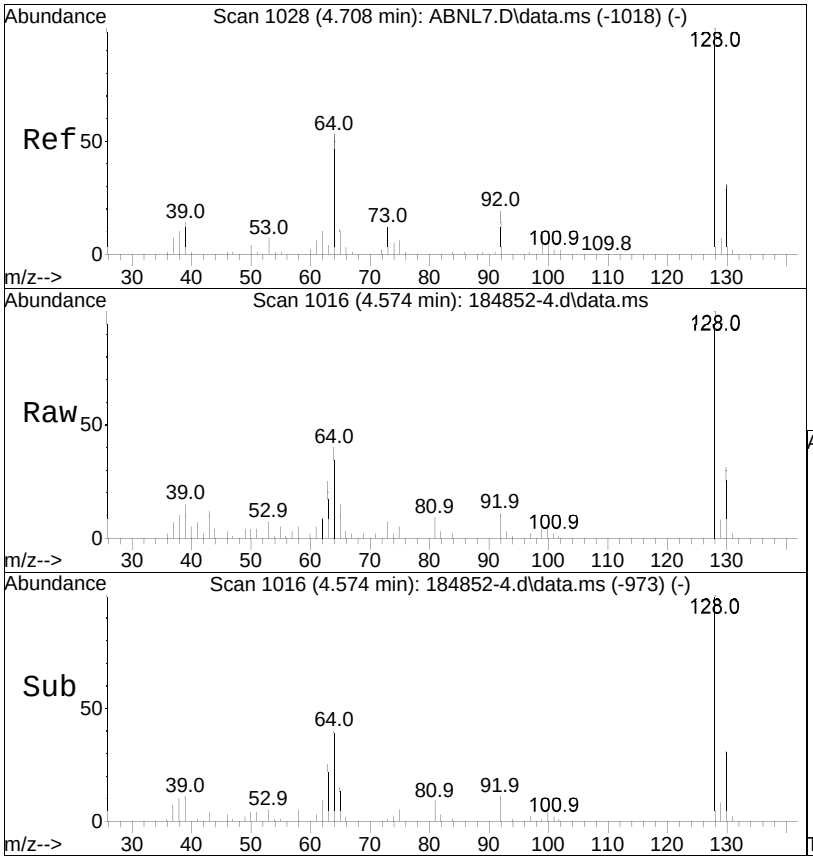
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181209\
Data File : 184852-4.d
Acq On : 9 Dec 2018 10:11 pm
Operator : SV103:rc
Sample : wg1184852-4d,32,5,ny,rv,kr
Misc : wg1187317,wg1184852,ical15305
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 10 08:43:34 2018
Quant Method : I:\8270\SV103\181209\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 10 08:06:53 2018
Response via : Initial Calibration

Sub List : 8270TCL_REV1 - TCL/CT/MA\AP91209.d•

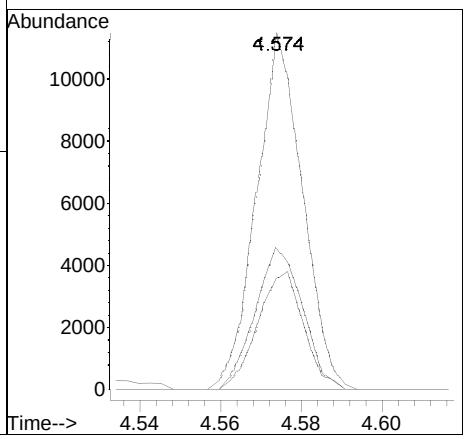


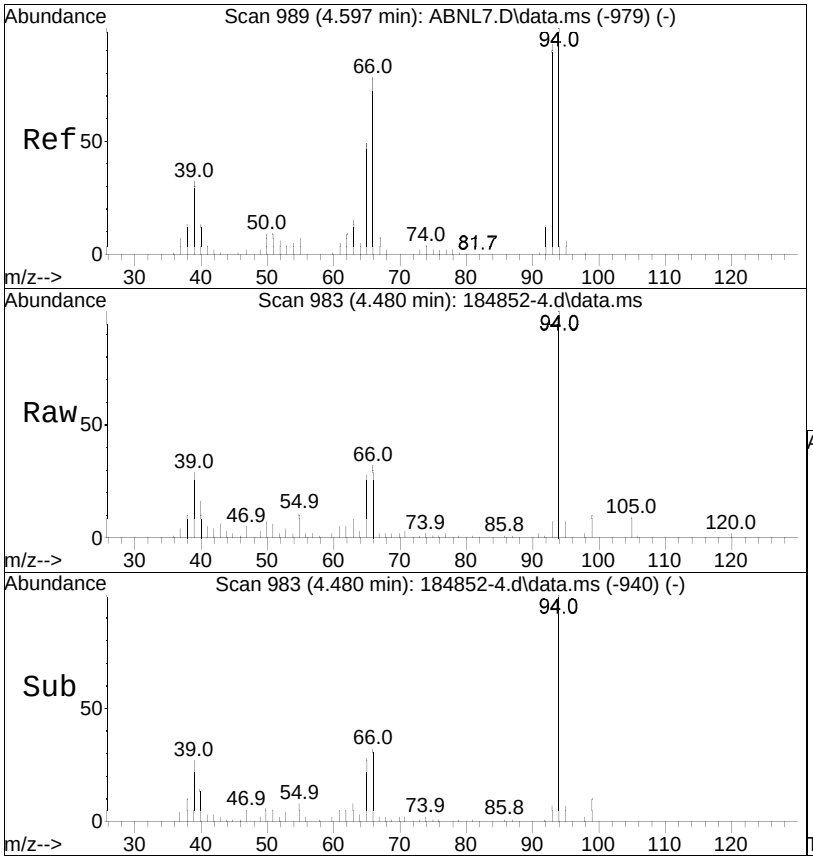


#6
2-Chlorophenol
Concen: 4.01 ug/ml
RT: 4.574 min Scan# 1016
Delta R.T. -0.003 min
Lab File: 184852-4.d
Acq: 9 Dec 2018 10:11 pm

Tgt Ion:128 Resp: 9014

Ion	Ratio	Lower	Upper
128	100		
64	41.1	42.7	64.1#
130	33.0	25.8	38.6

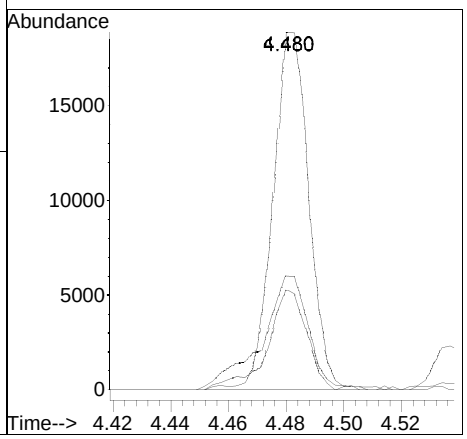


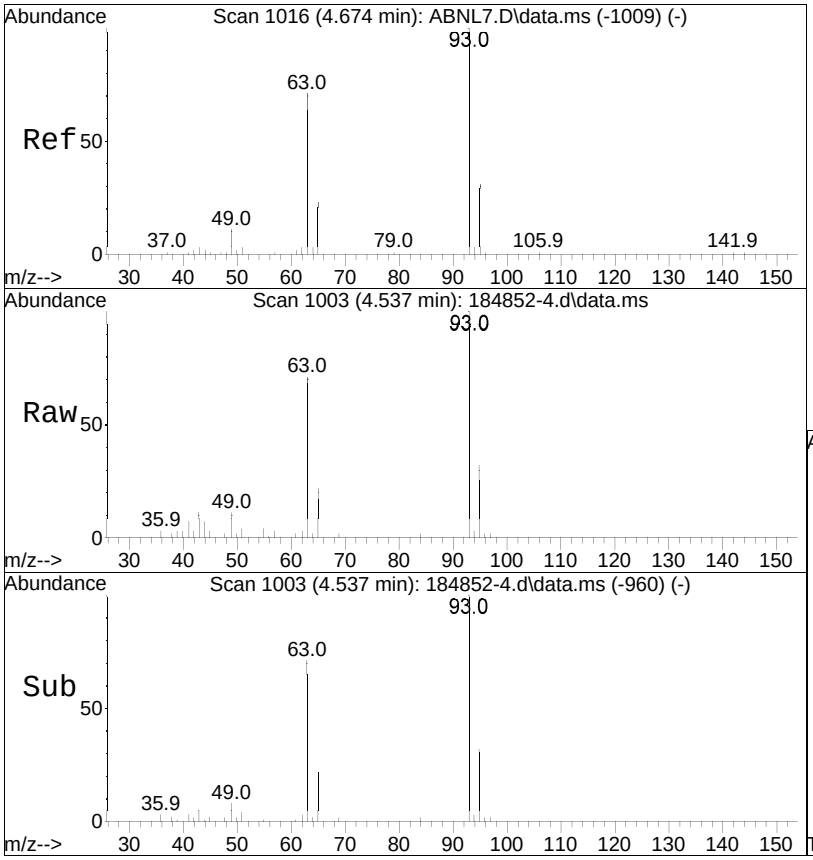


#8
Phenol
Concen: 5.40 ug/ml
RT: 4.480 min Scan# 983
Delta R.T. -0.003 min
Lab File: 184852-4.d
Acq: 9 Dec 2018 10:11 pm

Tgt Ion: 94 Resp: 16201

Ion	Ratio	Lower	Upper
94	100		
65	30.6	20.5	30.7
66	42.3	0.0	0.0#

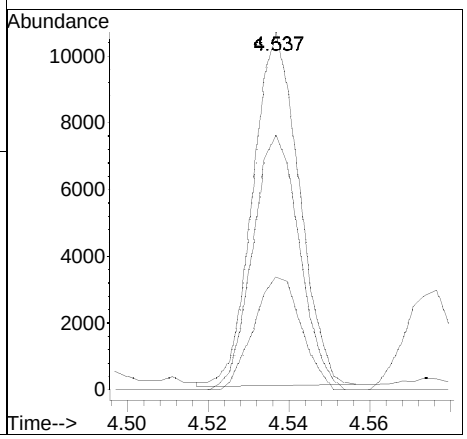


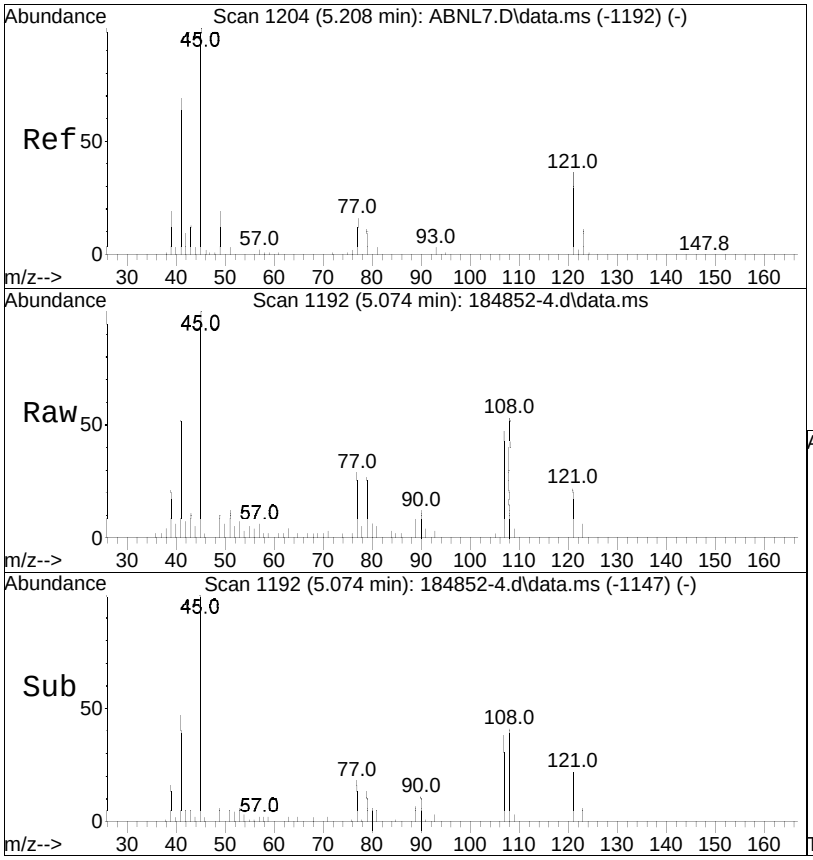


#9
Bis(2-chloroethyl)ether
Concen: 3.90 ug/ml
RT: 4.537 min Scan# 1003
Delta R.T. -0.003 min
Lab File: 184852-4.d
Acq: 9 Dec 2018 10:11 pm

Tgt Ion: 93 Resp: 8343

Ion	Ratio	Lower	Upper
93	100		
63	73.5	70.4	105.6
95	33.1	25.8	38.6

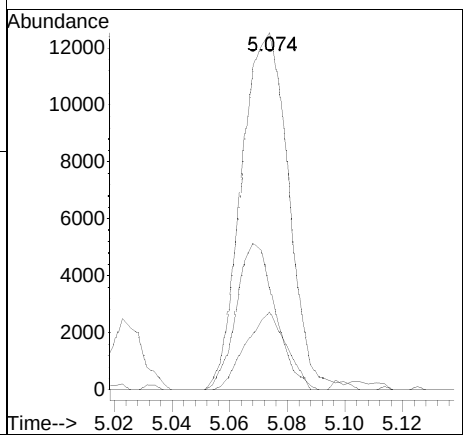


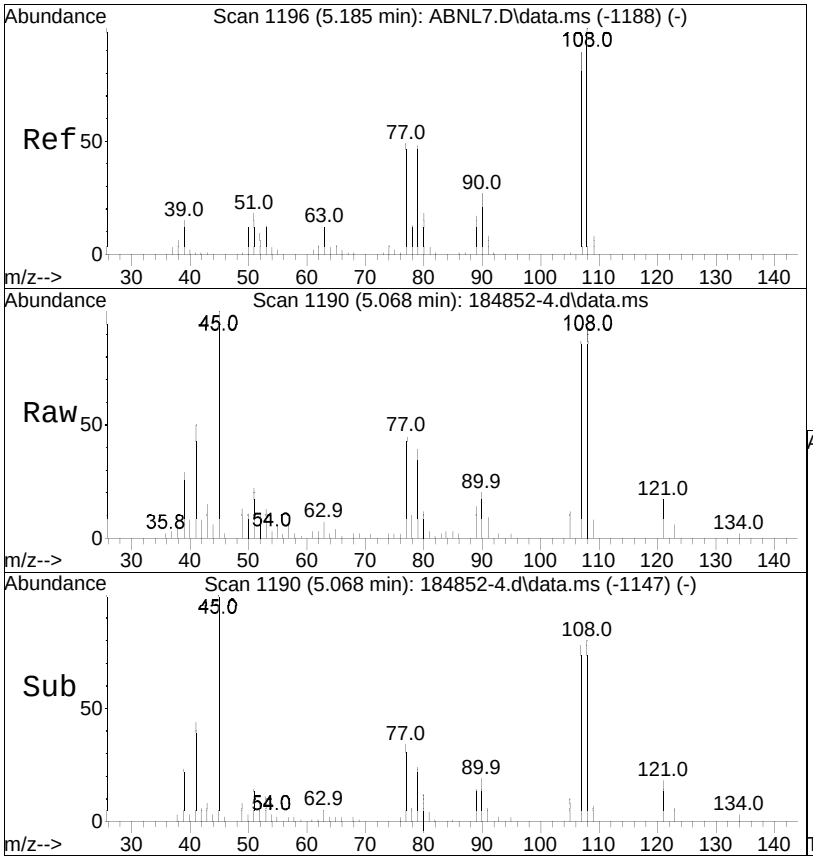


#14
Bis(2-chloroisopropyl)ether
Concen: 3.24 ug/ml
RT: 5.074 min Scan# 1192
Delta R.T. 0.003 min
Lab File: 184852-4.d
Acq: 9 Dec 2018 10:11 pm

Tgt Ion: 45 Resp: 14187

Ion	Ratio	Lower	Upper
45	100		
121	18.8	12.6	19.0
77	34.2	26.4	39.6

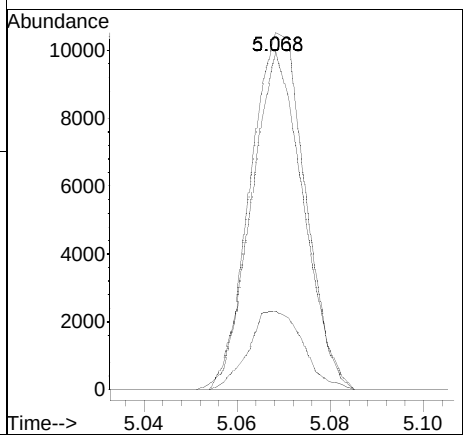


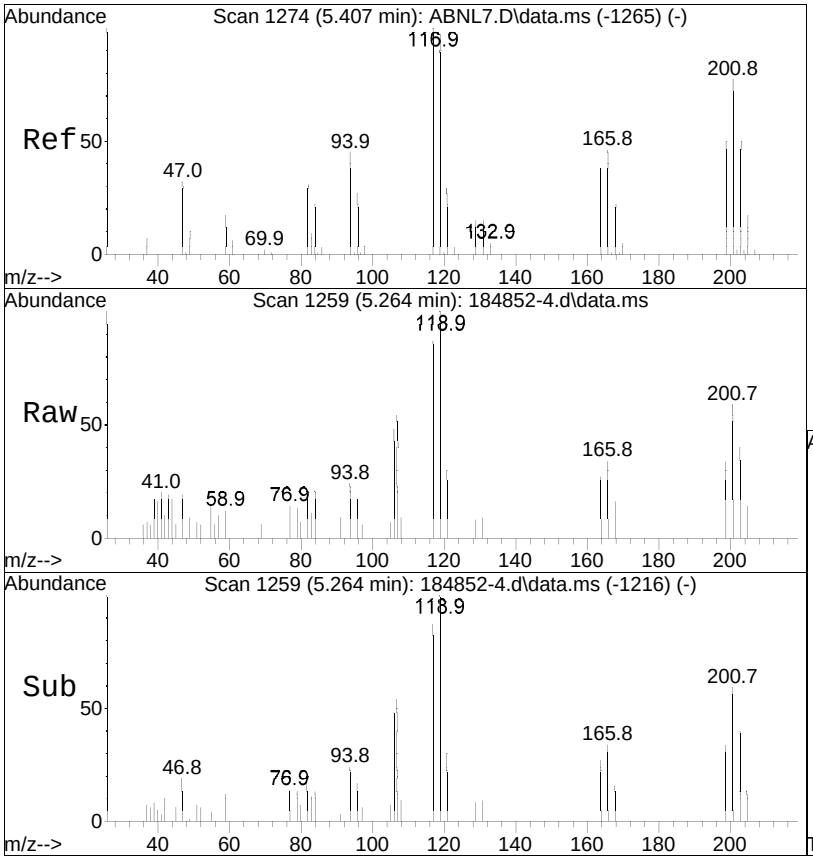


#15
2-Methylphenol
Concen: 4.27 ug/ml
RT: 5.068 min Scan# 1190
Delta R.T. -0.003 min
Lab File: 184852-4.d
Acq: 9 Dec 2018 10:11 pm

Tgt Ion:108 Resp: 8541

Ion	Ratio	Lower	Upper
108	100		
107	89.7	72.8	109.2
90	22.1	20.2	30.4

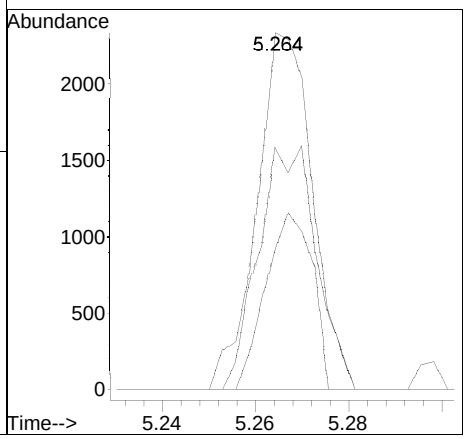


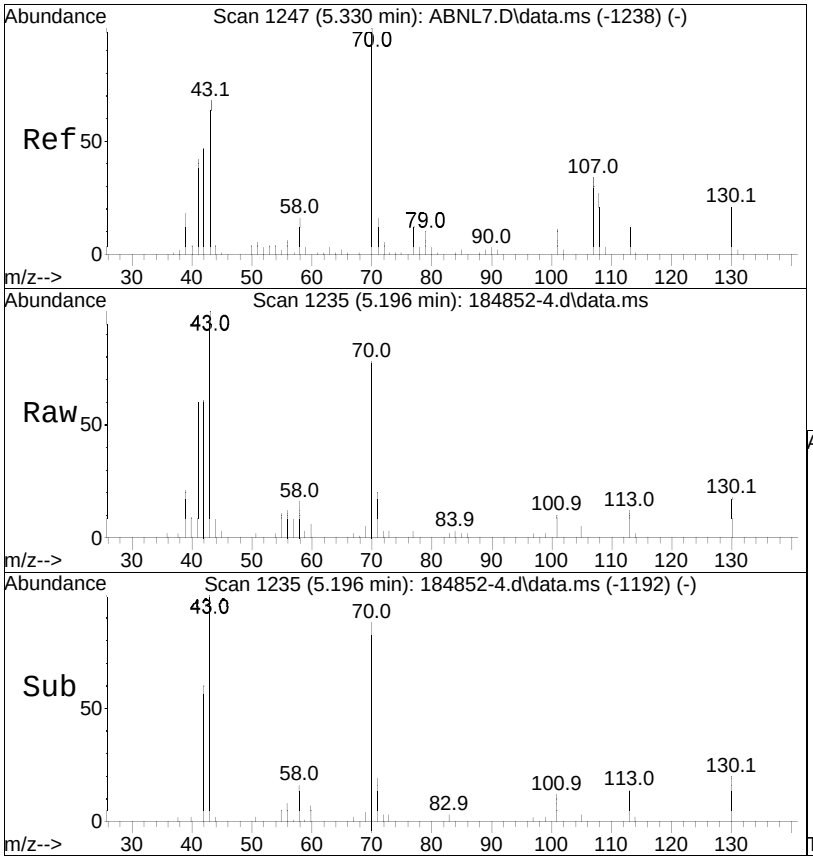


#16
Hexachloroethane
Concen: 2.07 ug/ml
RT: 5.264 min Scan# 1259
Delta R.T. -0.003 min
Lab File: 184852-4.d
Acq: 9 Dec 2018 10:11 pm

Tgt Ion:117 Resp: 1931

Ion	Ratio	Lower	Upper
117	100		
201	71.2	64.5	96.7
199	0.0	40.3	60.5#

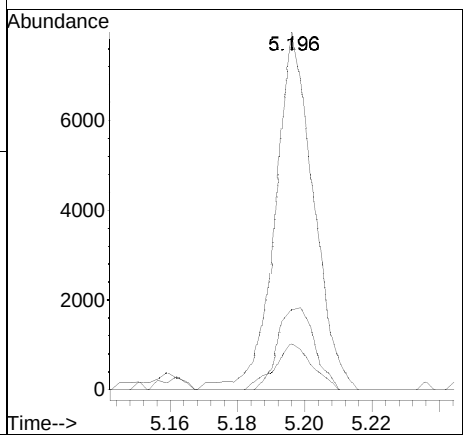


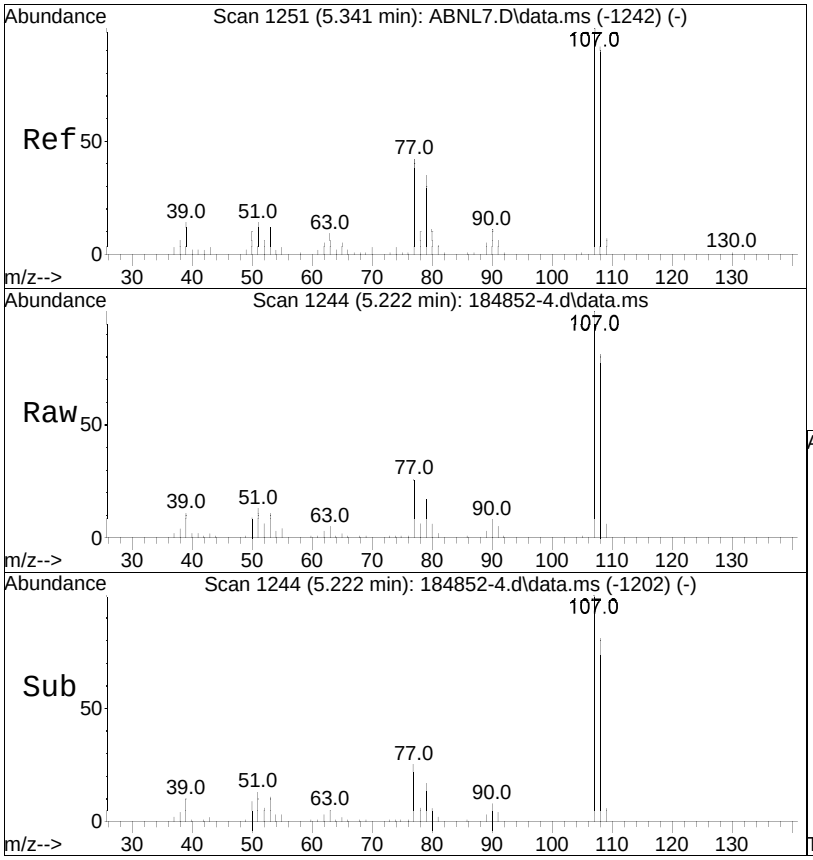


#17
n-Nitrosodi-n-propylamine
Concen: 3.95 ug/ml
RT: 5.196 min Scan# 1235
Delta R.T. -0.003 min
Lab File: 184852-4.d
Acq: 9 Dec 2018 10:11 pm

Tgt Ion: 70 Resp: 6275

Ion	Ratio	Lower	Upper
70	100		
130	22.1	15.0	22.4
101	0.0	7.4	11.0#

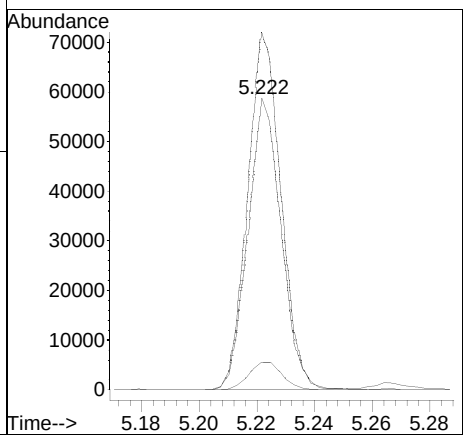


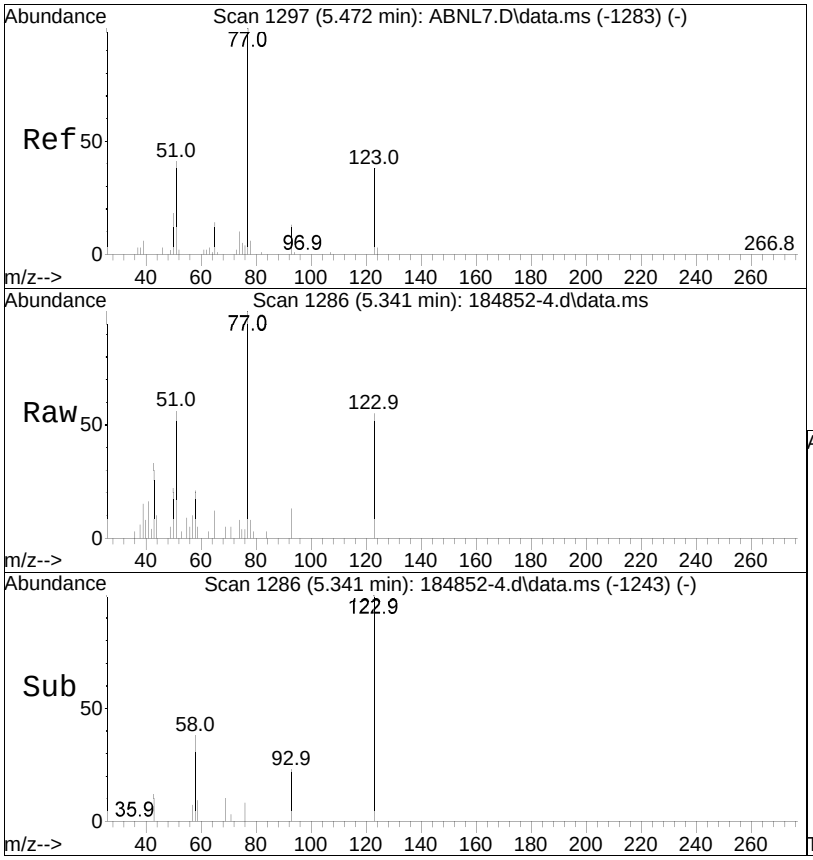


#18
3-Methylphenol/4-Methylphenol
Concen: 22.26 ug/ml
RT: 5.222 min Scan# 1244
Delta R.T. -0.006 min
Lab File: 184852-4.d
Acq: 9 Dec 2018 10:11 pm

Tgt Ion:108 Resp: 46488

Ion	Ratio	Lower	Upper
108	100		
107	122.7	90.4	135.6
90	9.8	9.2	13.8

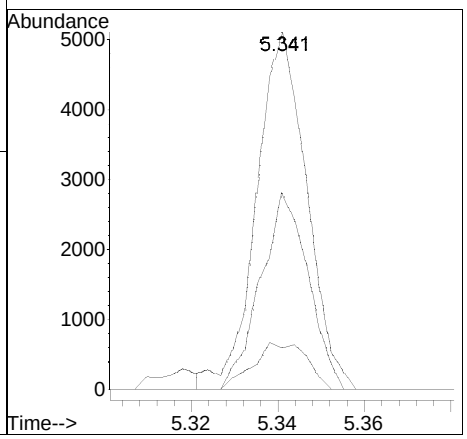


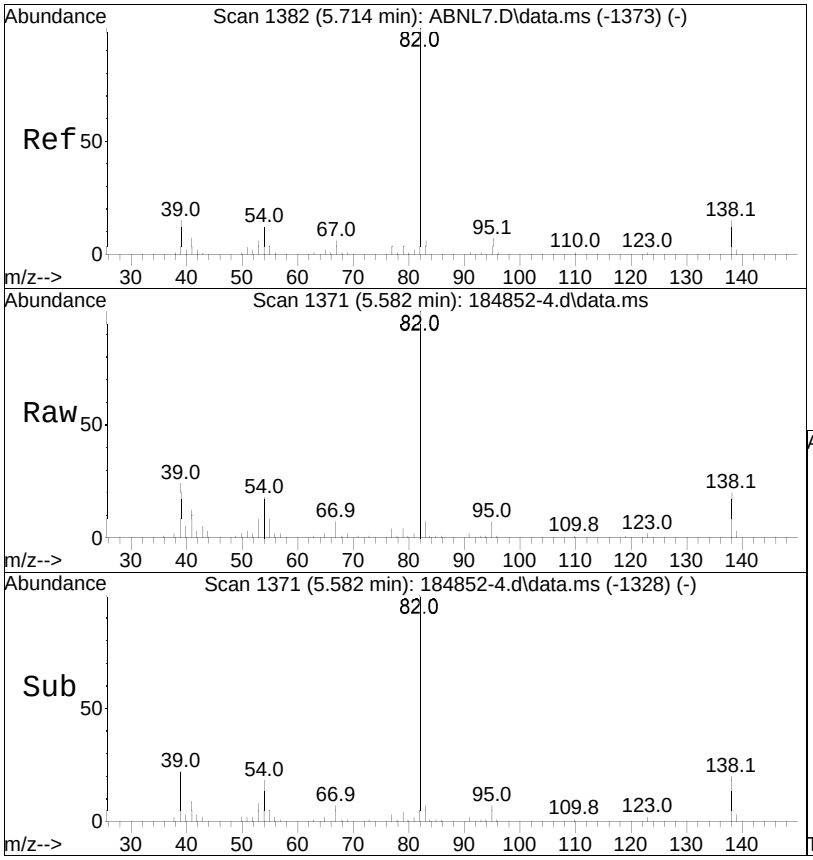


#20
Nitrobenzene
Concen: 1.71 ug/ml
RT: 5.341 min Scan# 1286
Delta R.T. -0.003 min
Lab File: 184852-4.d
Acq: 9 Dec 2018 10:11 pm

Tgt Ion: 77 Resp: 4088

Ion	Ratio	Lower	Upper
77	100		
123	52.4	35.0	52.4#
65	0.0	11.5	17.3#

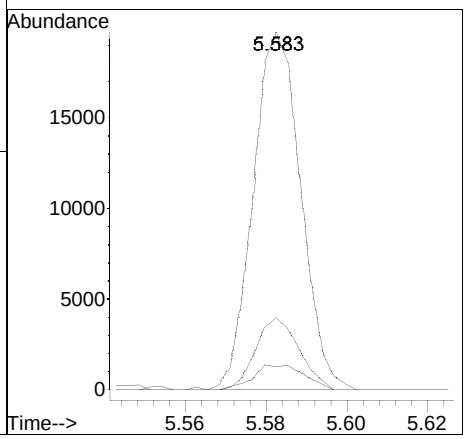


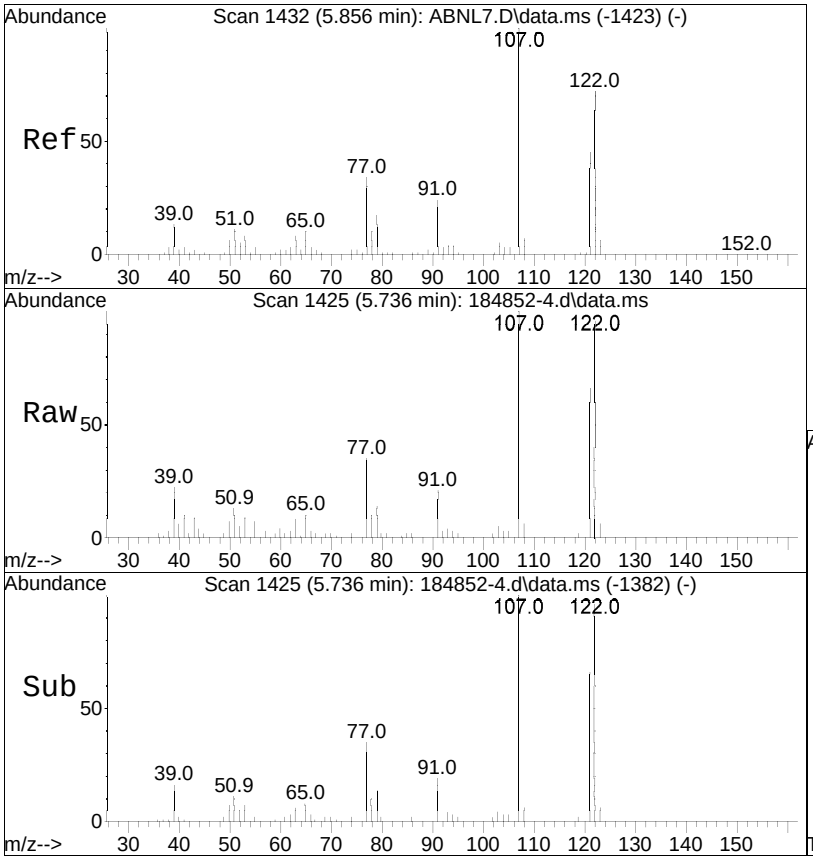


#21
Isophorone
Concen: 3.95 ug/ml
RT: 5.582 min Scan# 1371
Delta R.T. -0.003 min
Lab File: 184852-4.d
Acq: 9 Dec 2018 10:11 pm

Tgt Ion: 82 Resp: 15991

Ion	Ratio	Lower	Upper
82	100		
138	18.5	12.8	19.2
95	7.6	5.5	8.3

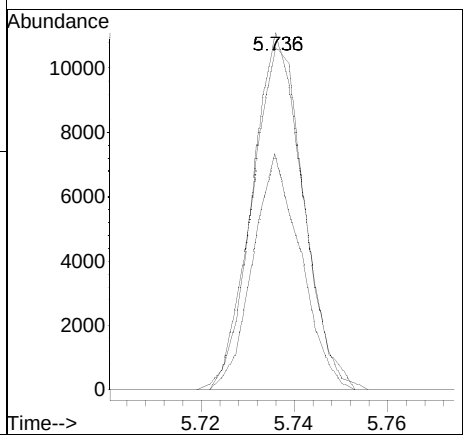


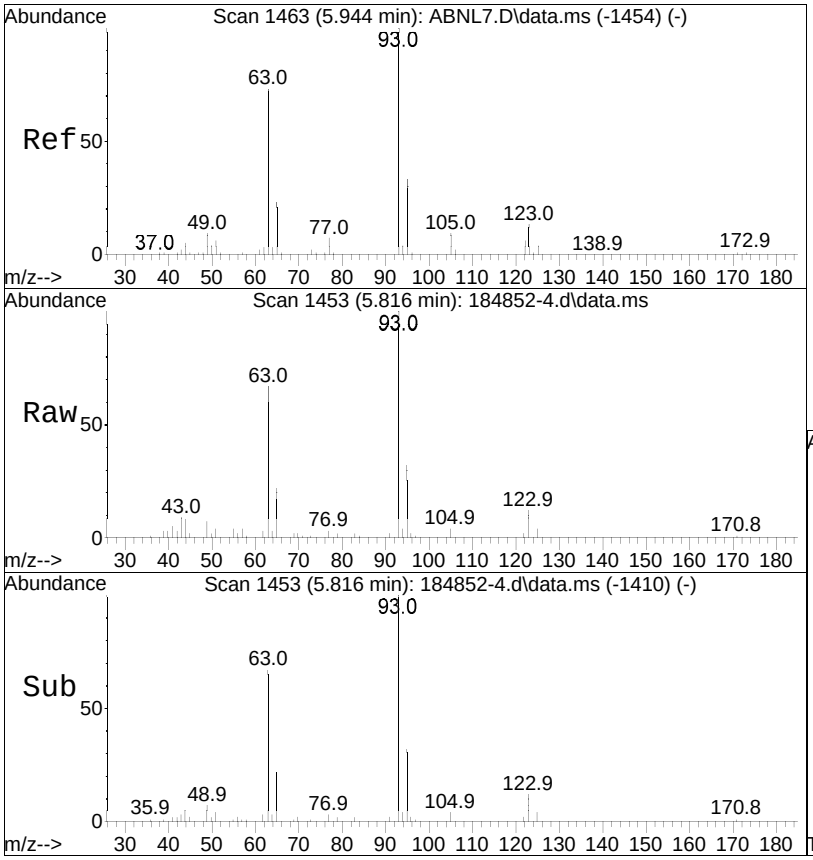


#23
2,4-Dimethylphenol
Concen: 4.16 ug/ml
RT: 5.736 min Scan# 1425
Delta R.T. -0.003 min
Lab File: 184852-4.d
Acq: 9 Dec 2018 10:11 pm

Tgt Ion:107 Resp: 8399

Ion	Ratio	Lower	Upper
107	100		
121	62.2	39.7	59.5#
122	98.1	66.8	100.2

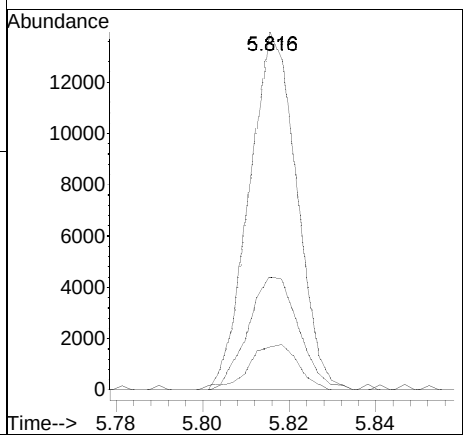


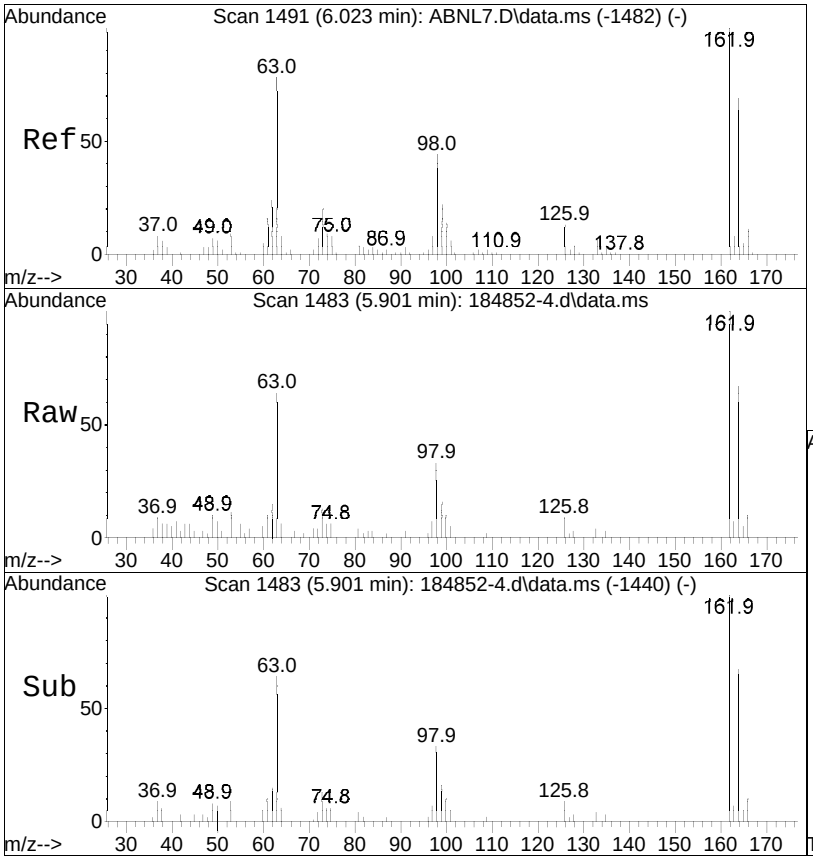


#24
Bis(2-chloroethoxy)methane
Concen: 4.06 ug/ml
RT: 5.816 min Scan# 1453
Delta R.T. -0.003 min
Lab File: 184852-4.d
Acq: 9 Dec 2018 10:11 pm

Tgt Ion: 93 Resp: 10562

Ion	Ratio	Lower	Upper
93	100		
95	34.1	26.1	39.1
123	13.0	9.8	14.8

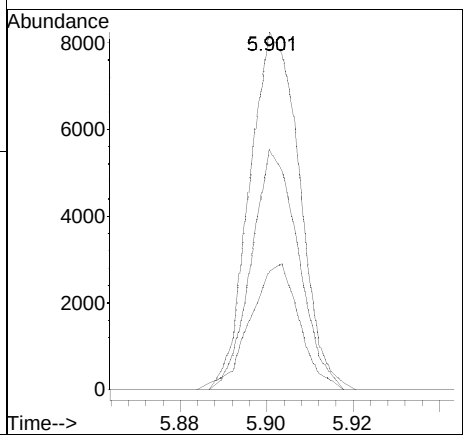


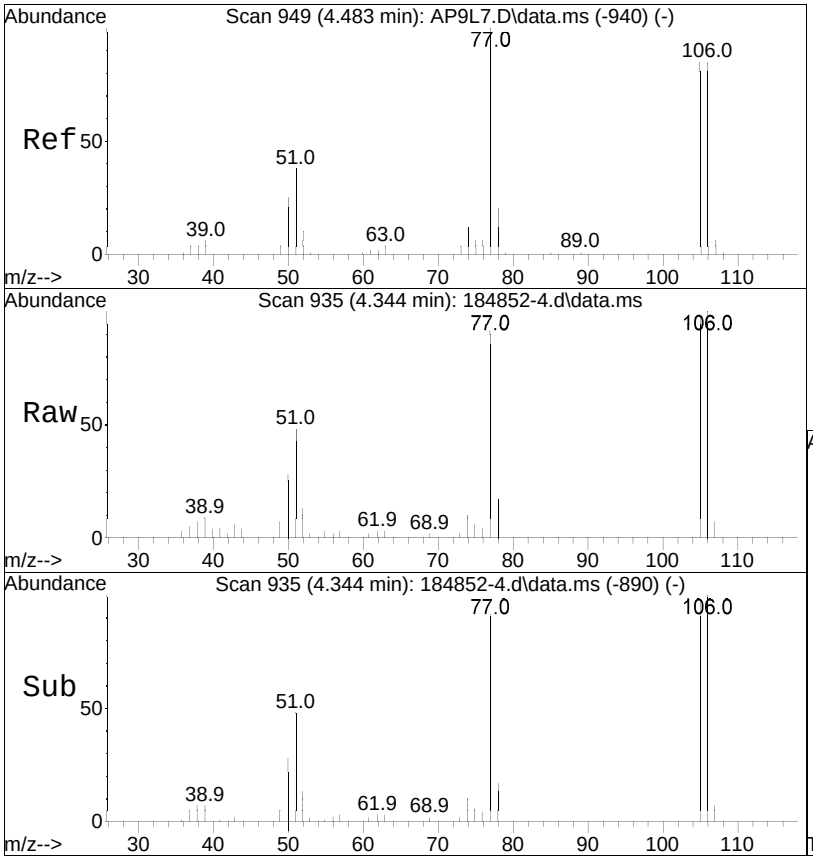


#25
2,4-Dichlorophenol
Concen: 3.97 ug/ml
RT: 5.901 min Scan# 1483
Delta R.T. -0.003 min
Lab File: 184852-4.d
Acq: 9 Dec 2018 10:11 pm

Tgt Ion:162 Resp: 6579

Ion	Ratio	Lower	Upper
162	100		
164	63.3	50.4	75.6
98	34.9	31.6	47.4

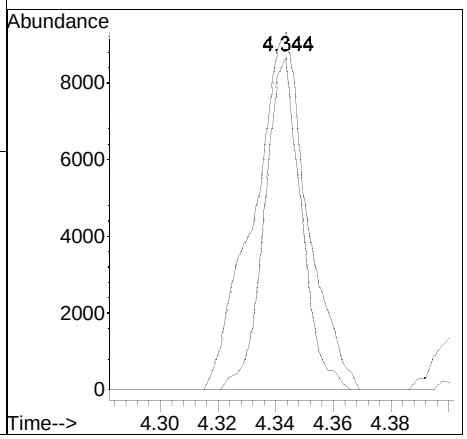


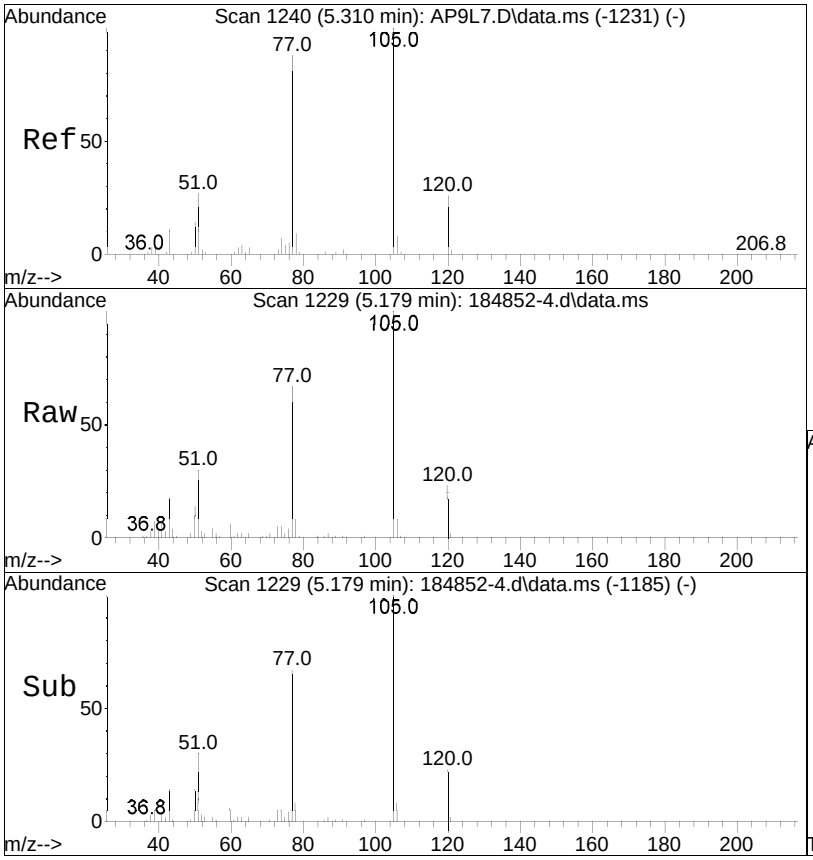


#28
Benzaldehyde
Concen: 6.76 ug/ml
RT: 4.344 min Scan# 935
Delta R.T. 0.003 min
Lab File: 184852-4.d
Acq: 9 Dec 2018 10:11 pm

Tgt Ion:105 Resp: 12058

Ion	Ratio	Lower	Upper
105	100		
77	63.6	82.9	124.3#

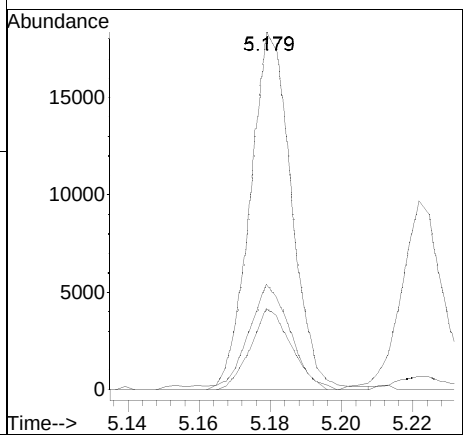


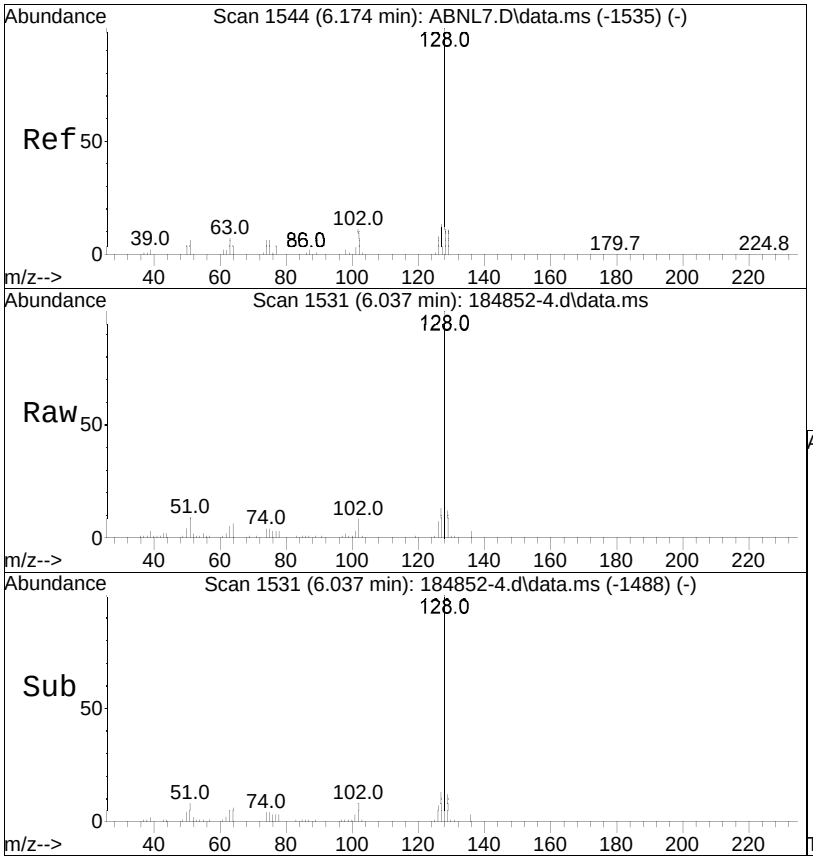


#29
Acetophenone
Concen: 5.13 ug/ml
RT: 5.179 min Scan# 1229
Delta R.T. 0.000 min
Lab File: 184852-4.d
Acq: 9 Dec 2018 10:11 pm

Tgt Ion:105 Resp: 14802

Ion	Ratio	Lower	Upper
105	100		
120	22.0	16.4	24.6
51	29.5	26.5	39.7

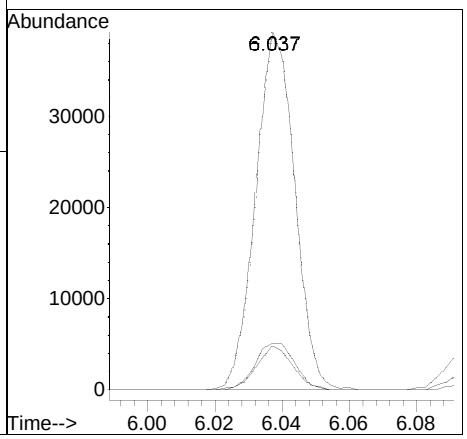


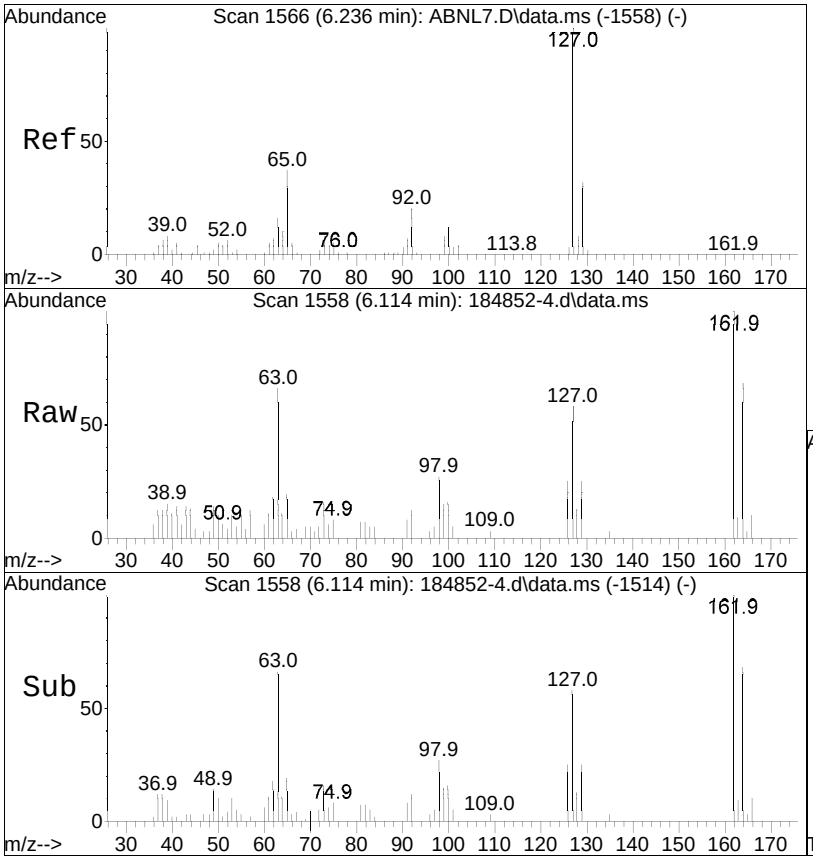


#35
Naphthalene
Concen: 4.93 ug/ml
RT: 6.037 min Scan# 1531
Delta R.T. -0.003 min
Lab File: 184852-4.d
Acq: 9 Dec 2018 10:11 pm

Tgt Ion:128 Resp: 31416

Ion	Ratio	Lower	Upper
128	100		
129	11.4	8.7	13.1
127	13.4	10.7	16.1

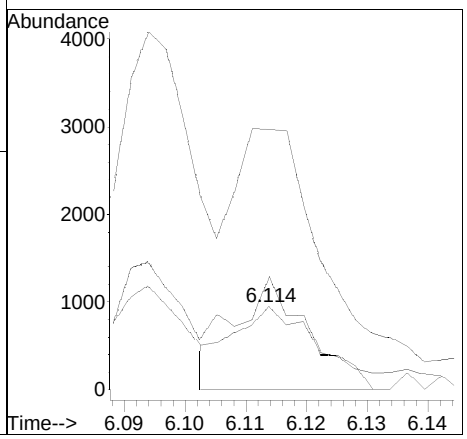


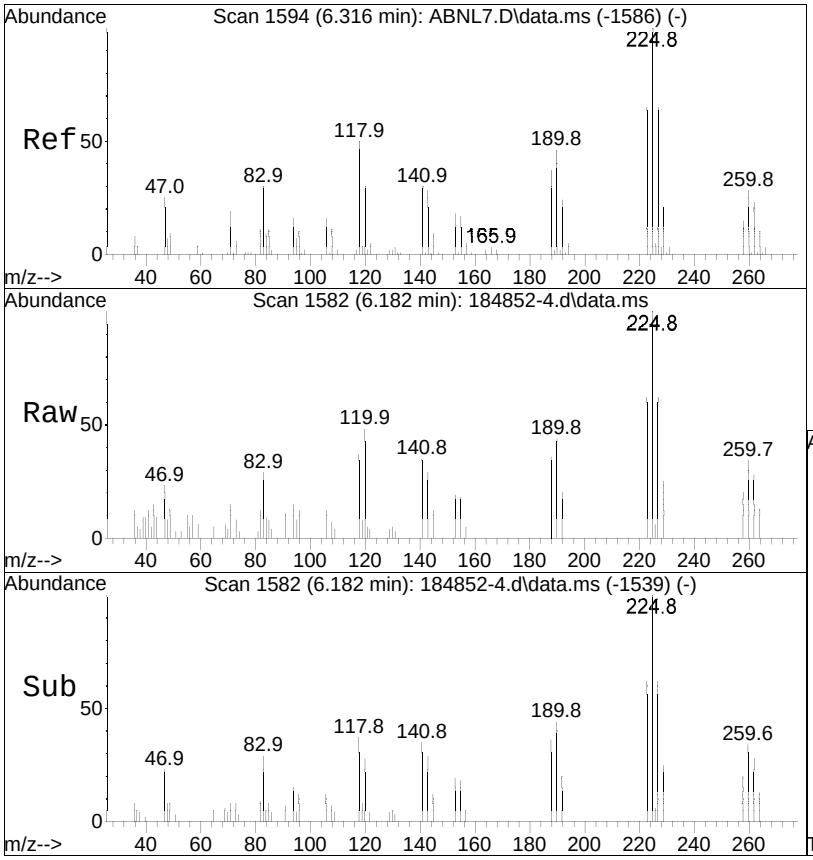


#37
4-Chloroaniline
Concen: 1.16 ug/ml M3
RT: 6.114 min Scan# 1558
Delta R.T. -0.000 min
Lab File: 184852-4.d
Acq: 9 Dec 2018 10:11 pm

Tgt Ion: 65 Resp: 932

Ion	Ratio	Lower	Upper
65	100		
127	0.0	233.2	349.8#
129	0.0	74.6	111.8#

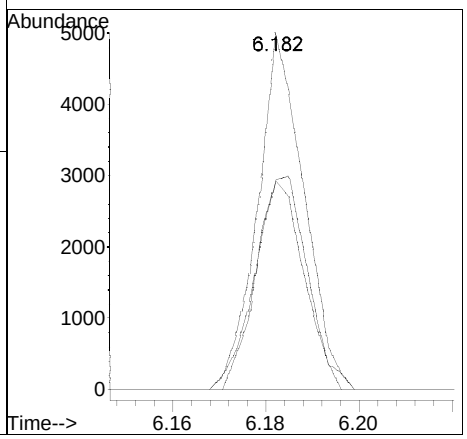


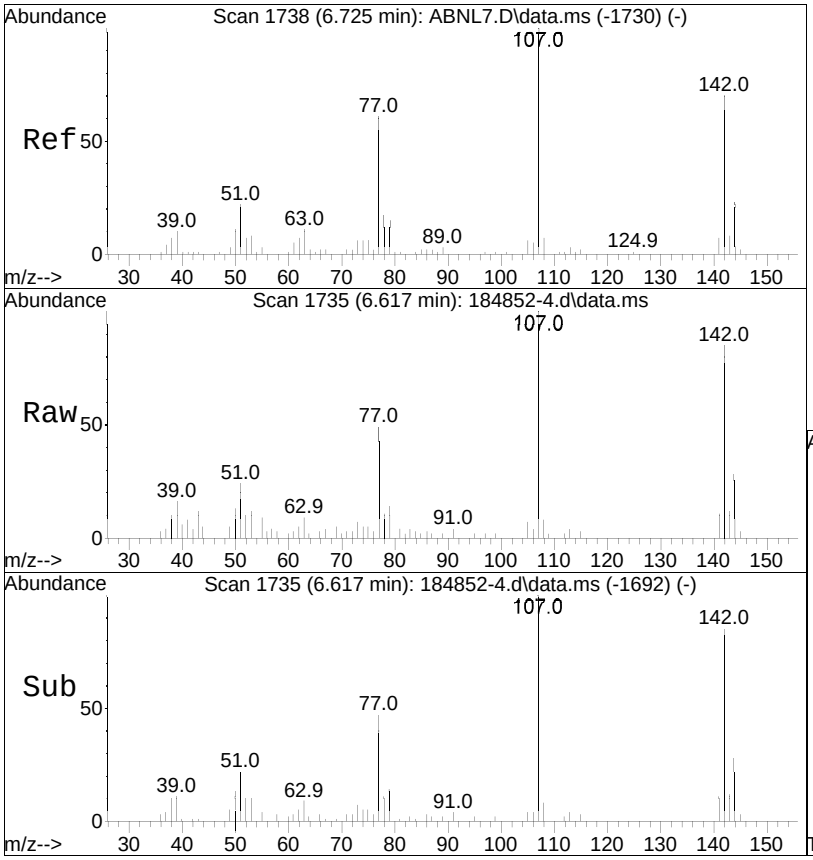


#38
Hexachlorobutadiene
Concen: 4.23 ug/ml
RT: 6.182 min Scan# 1582
Delta R.T. -0.003 min
Lab File: 184852-4.d
Acq: 9 Dec 2018 10:11 pm

Tgt Ion:225 Resp: 3438

Ion	Ratio	Lower	Upper
225	100		
223	63.0	49.4	74.0
227	66.3	50.8	76.2

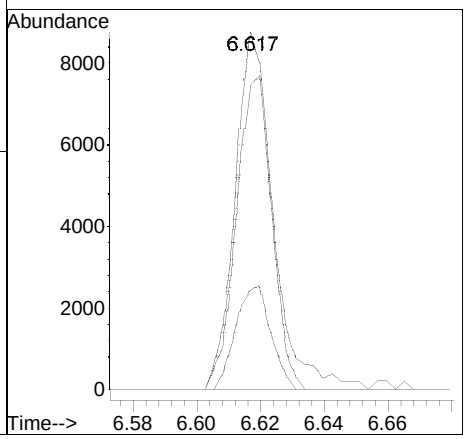


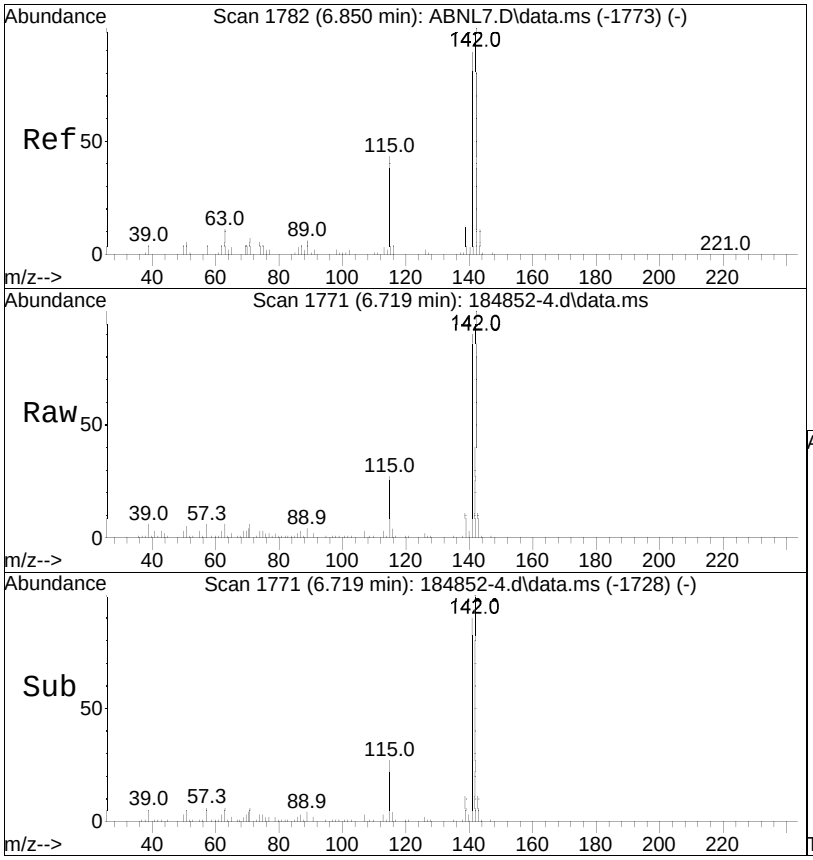


#39
p-Chloro-m-cresol
Concen: 4.16 ug/ml
RT: 6.617 min Scan# 1735
Delta R.T. -0.003 min
Lab File: 184852-4.d
Acq: 9 Dec 2018 10:11 pm

Tgt Ion:107 Resp: 7268

Ion	Ratio	Lower	Upper
107	100		
144	26.7	19.6	29.4
142	81.2	62.2	93.4

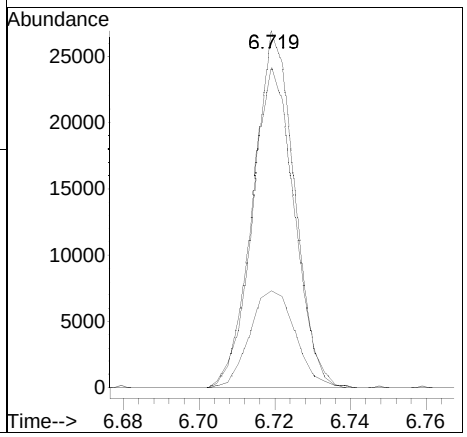


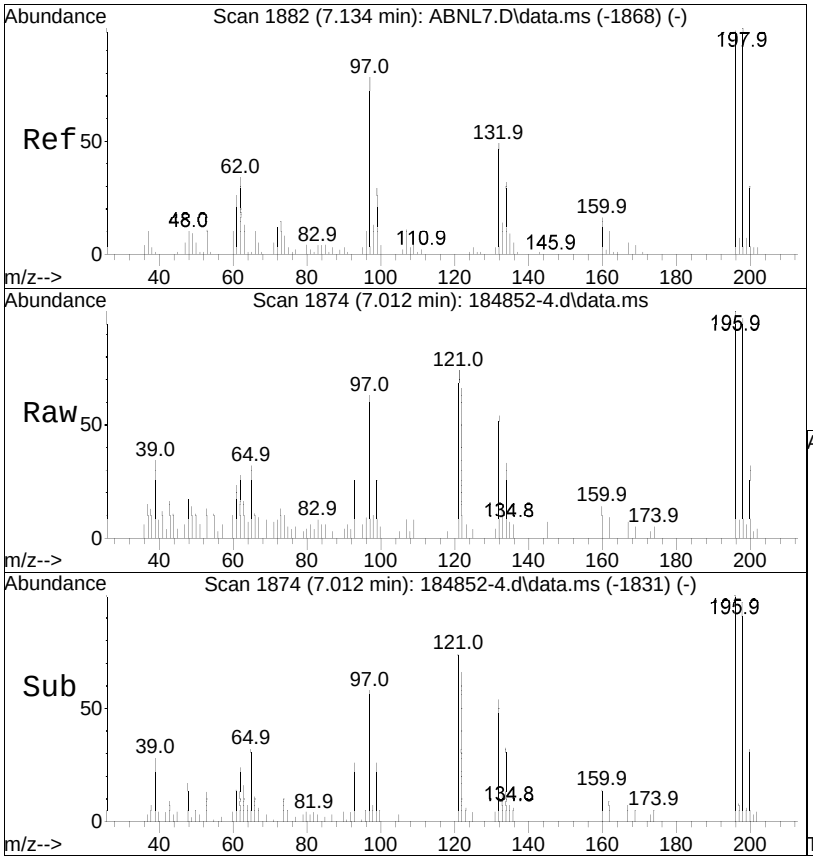


#40
2-Methylnaphthalene
Concen: 4.83 ug/ml
RT: 6.719 min Scan# 1771
Delta R.T. -0.003 min
Lab File: 184852-4.d
Acq: 9 Dec 2018 10:11 pm

Tgt Ion:142 Resp: 20348

Ion	Ratio	Lower	Upper
142	100		
141	91.4	71.8	107.8
115	30.3	29.1	43.7

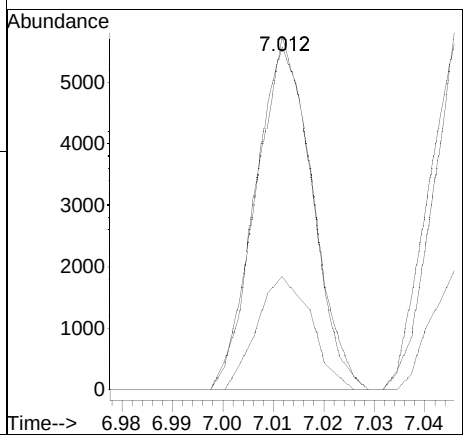


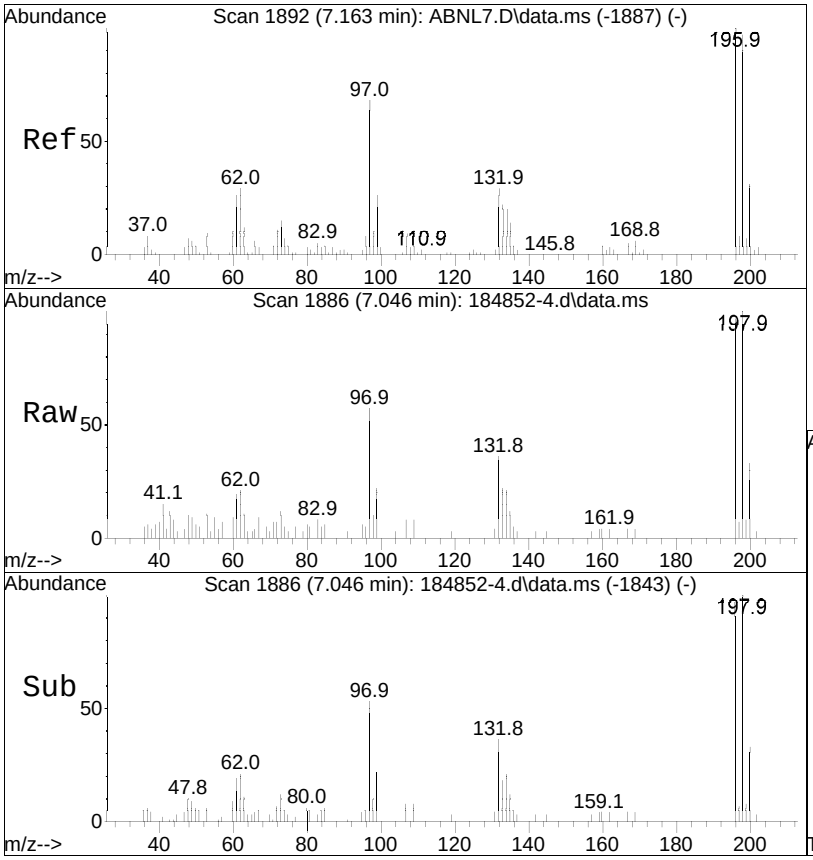


#43
2,4,6-Trichlorophenol
Concen: 4.12 ug/ml
RT: 7.012 min Scan# 1874
Delta R.T. -0.003 min
Lab File: 184852-4.d
Acq: 9 Dec 2018 10:11 pm

Tgt Ion:196 Resp: 4427

Ion	Ratio	Lower	Upper
196	100		
198	99.2	81.5	122.3
200	31.2	26.2	39.2

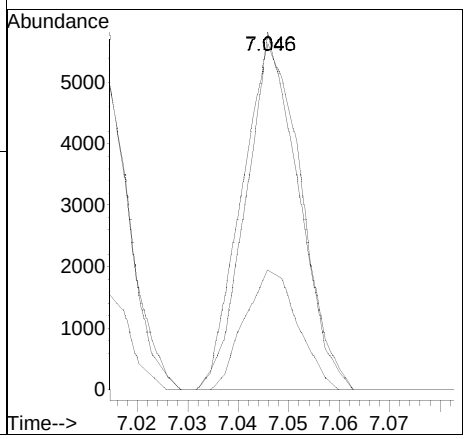


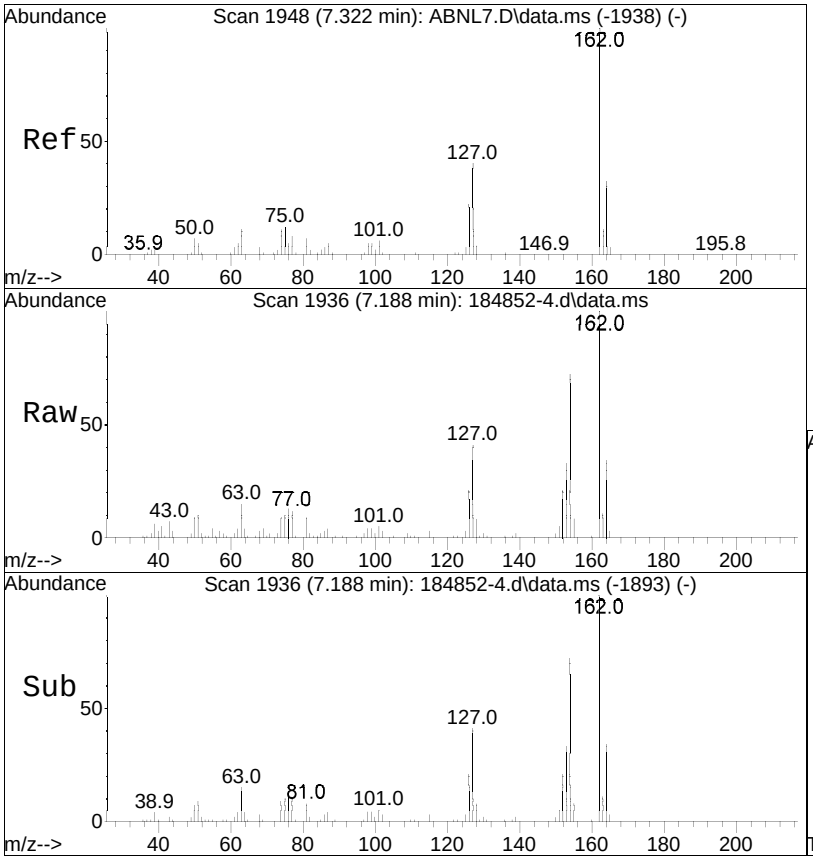


#44
2,4,5-Trichlorophenol
Concen: 4.08 ug/ml
RT: 7.046 min Scan# 1886
Delta R.T. -0.003 min
Lab File: 184852-4.d
Acq: 9 Dec 2018 10:11 pm

Tgt Ion:196 Resp: 4618

Ion	Ratio	Lower	Upper
196	100		
200	30.8	25.5	38.3
198	90.5	79.2	118.8

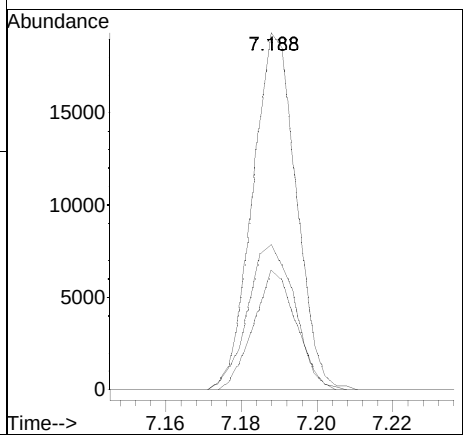


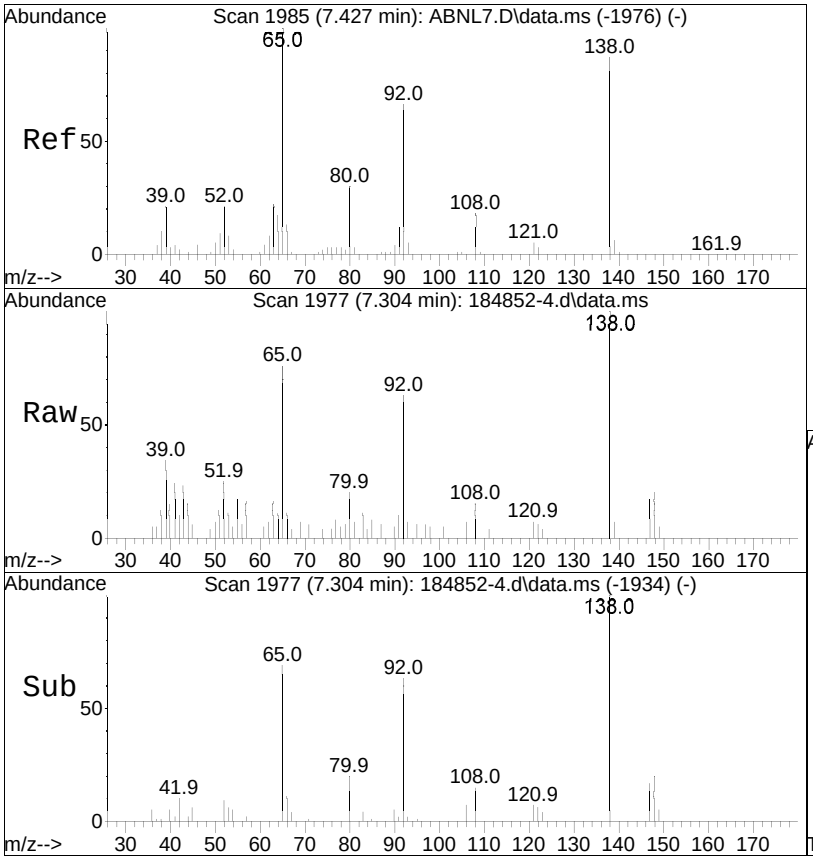


#46
2-Chloronaphthalene
Concen: 4.23 ug/ml
RT: 7.188 min Scan# 1936
Delta R.T. -0.003 min
Lab File: 184852-4.d
Acq: 9 Dec 2018 10:11 pm

Tgt Ion:162 Resp: 15402

Ion	Ratio	Lower	Upper
162	100		
127	44.0	33.6	50.4
164	32.7	25.8	38.8

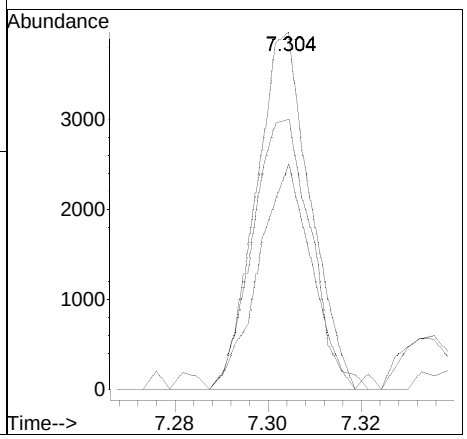


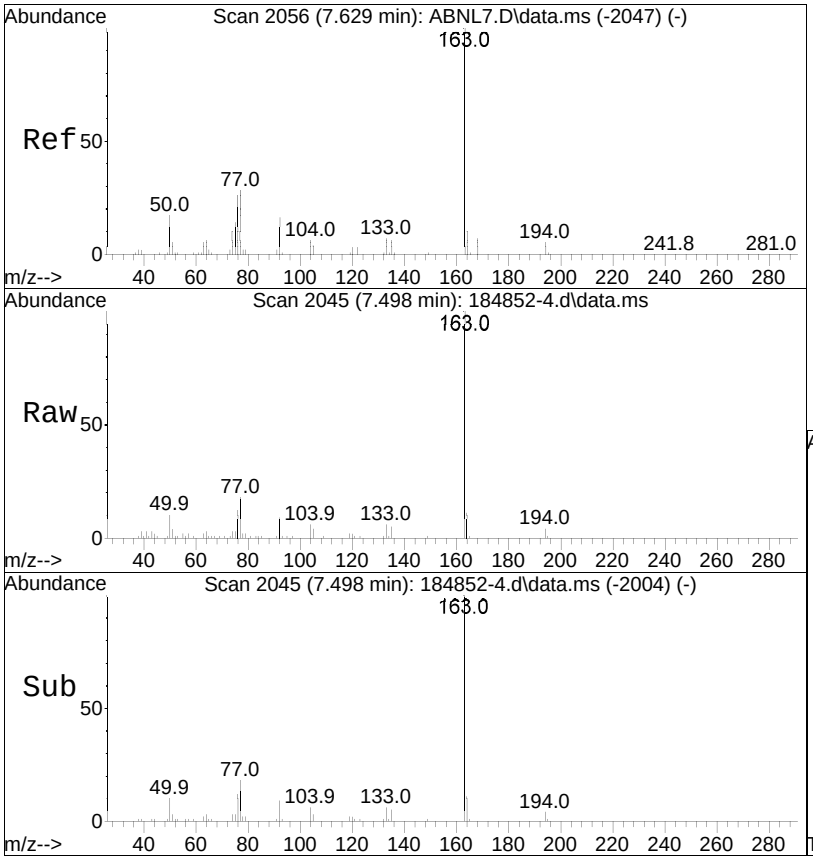


#47
2-Nitroaniline
Concen: 2.44 ug/ml
RT: 7.304 min Scan# 1977
Delta R.T. -0.003 min
Lab File: 184852-4.d
Acq: 9 Dec 2018 10:11 pm

Tgt Ion:138 Resp: 3188

Ion	Ratio	Lower	Upper
138	100		
92	61.8	54.2	81.2
65	81.1	82.8	124.2#

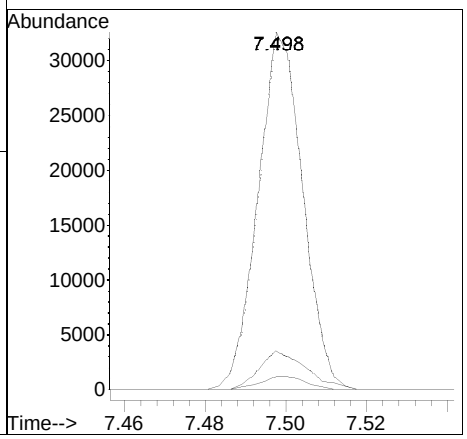


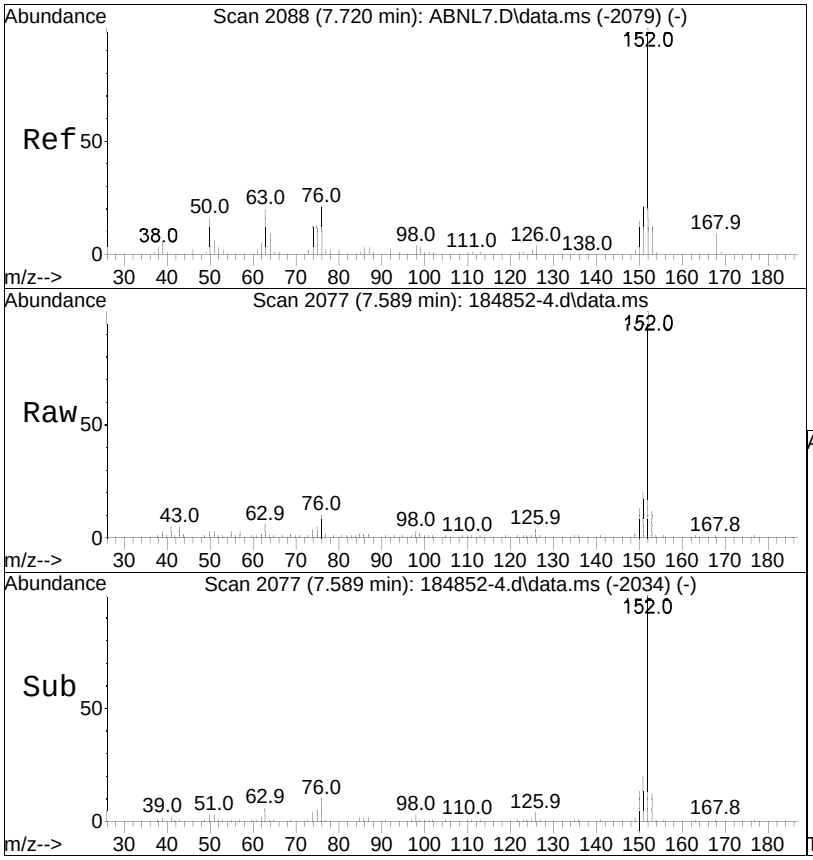


#50
Dimethyl phthalate
Concen: 6.01 ug/ml
RT: 7.498 min Scan# 2045
Delta R.T. -0.009 min
Lab File: 184852-4.d
Acq: 9 Dec 2018 10:11 pm

Tgt Ion:163 Resp: 24785

Ion	Ratio	Lower	Upper
163	100		
194	0.0	2.6	4.0#
164	11.4	8.2	12.4

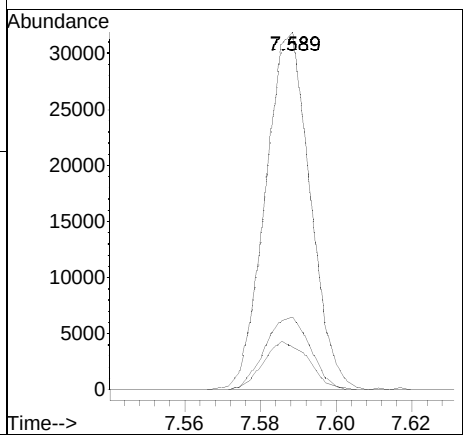


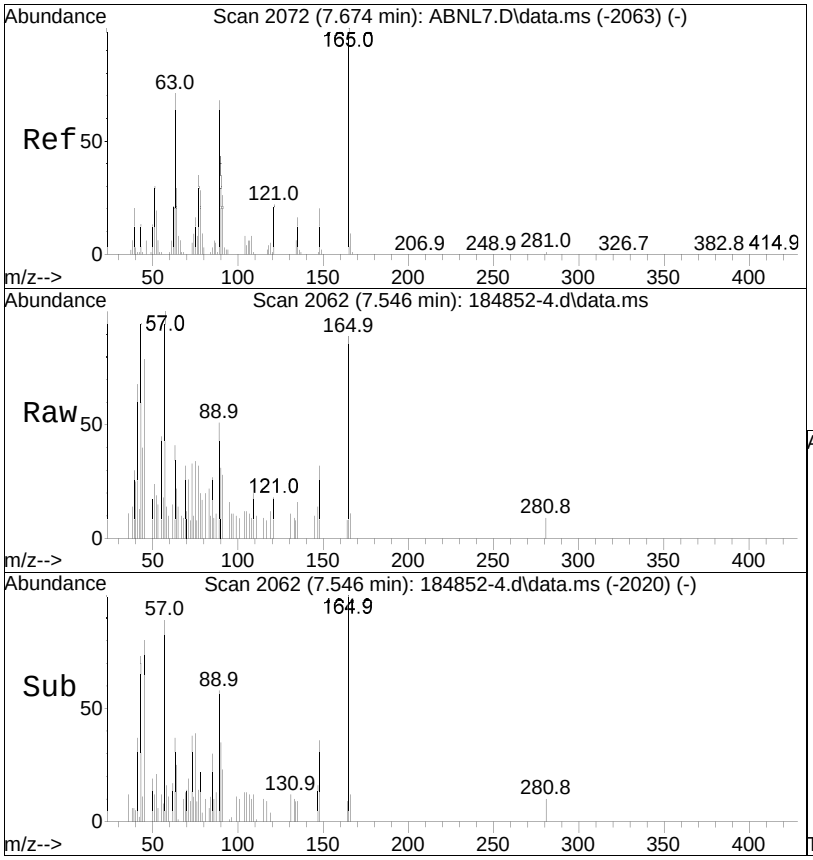


#51
Acenaphthylene
Concen: 4.32 ug/ml
RT: 7.589 min Scan# 2077
Delta R.T. -0.003 min
Lab File: 184852-4.d
Acq: 9 Dec 2018 10:11 pm

Tgt Ion:152 Resp: 25979

Ion	Ratio	Lower	Upper
152	100		
151	20.9	16.4	24.6
153	13.9	11.0	16.6

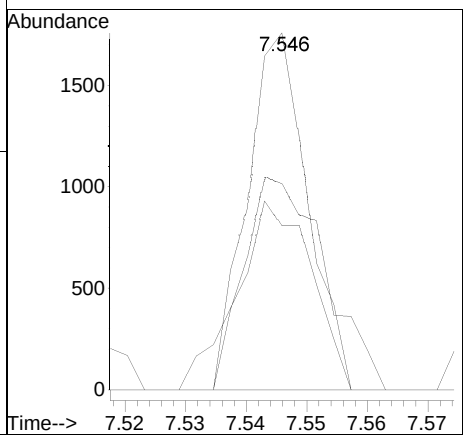


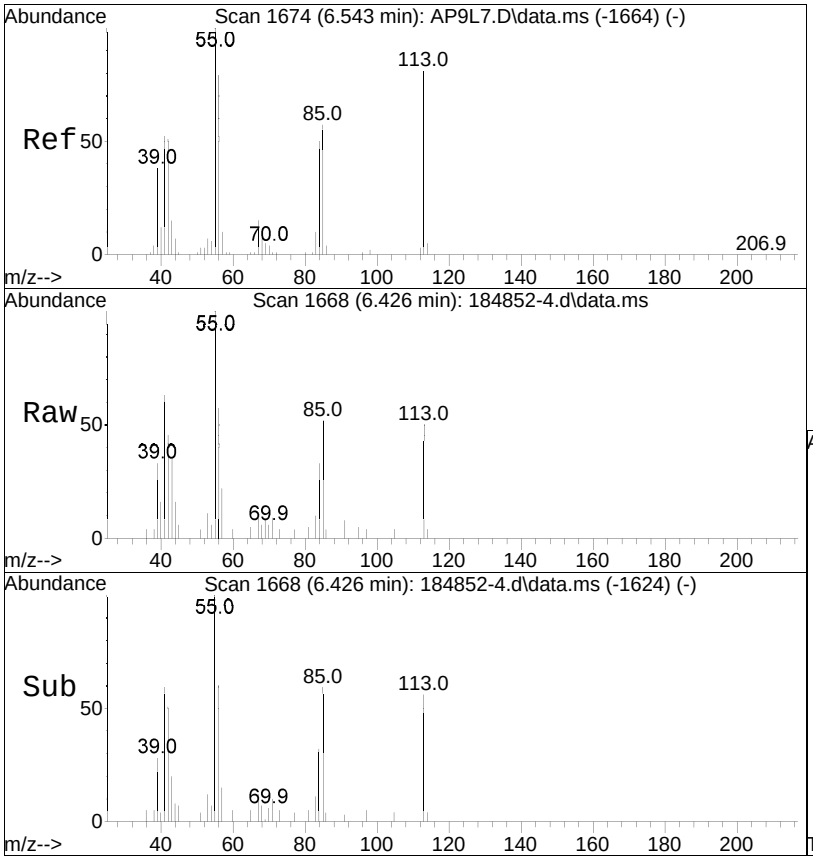


#52
2,6-Dinitrotoluene
Concen: 1.35 ug/ml
RT: 7.546 min Scan# 2062
Delta R.T. -0.006 min
Lab File: 184852-4.d
Acq: 9 Dec 2018 10:11 pm

Tgt Ion:165 Resp: 1222

Ion	Ratio	Lower	Upper
165	100		
89	0.0	50.4	75.6#
63	142.4	56.9	85.3#

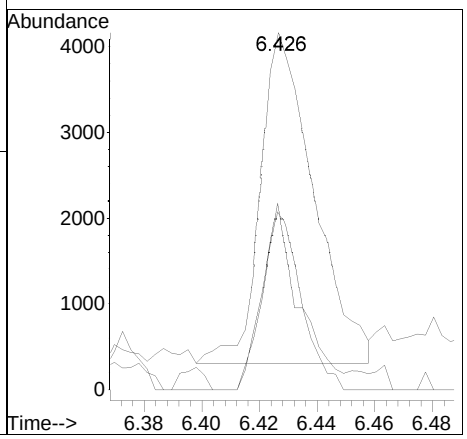


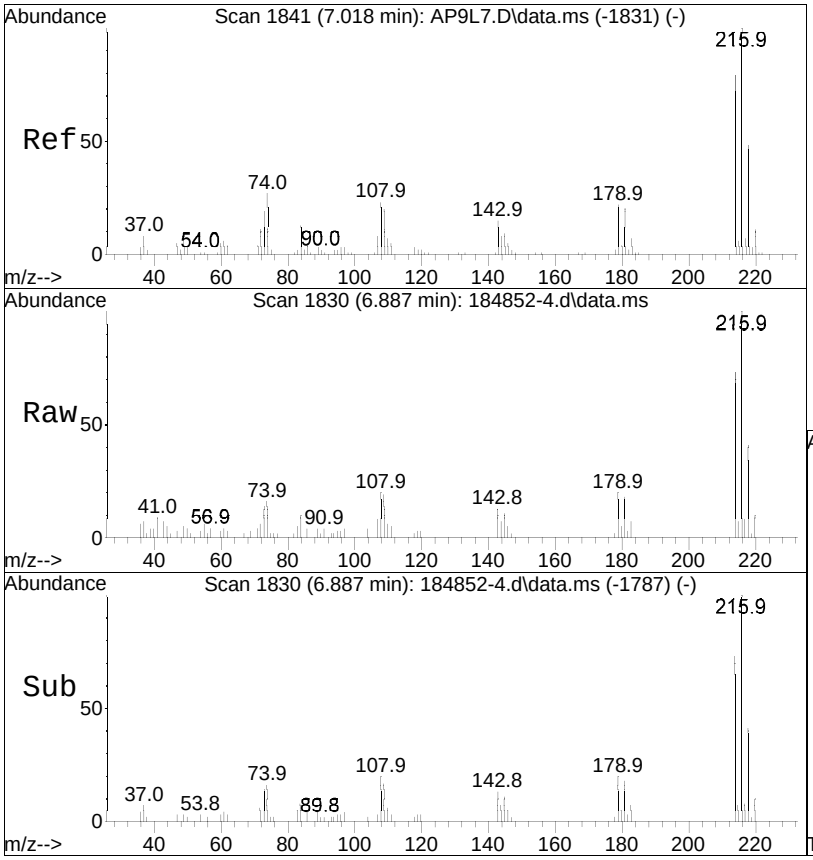


#59
Caprolactam
Concen: 4.50 ug/ml
RT: 6.426 min Scan# 1668
Delta R.T. 0.000 min
Lab File: 184852-4.d
Acq: 9 Dec 2018 10:11 pm

Tgt Ion: 55 Resp: 4964

Ion	Ratio	Lower	Upper
55	100		
85	41.4	31.3	46.9
113	39.0	35.4	53.0

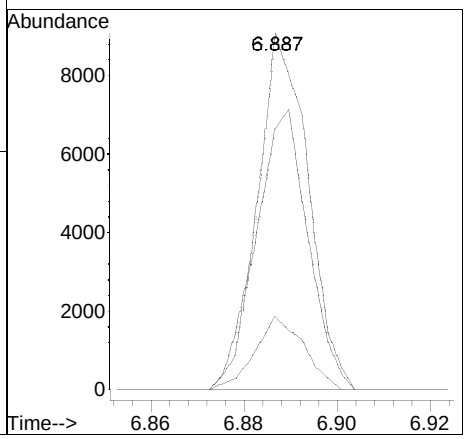


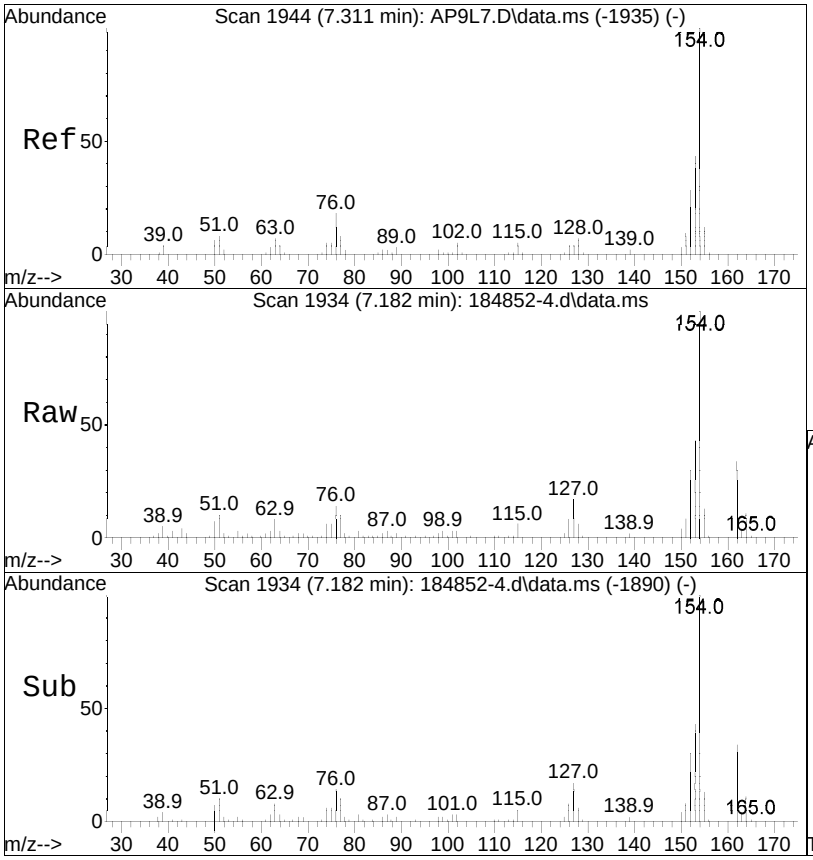


#60
1,2,4,5-Tetrachlorobenzene
Concen: 4.87 ug/ml
RT: 6.887 min Scan# 1830
Delta R.T. -0.003 min
Lab File: 184852-4.d
Acq: 9 Dec 2018 10:11 pm

Tgt Ion:216 Resp: 6871

Ion	Ratio	Lower	Upper
216	100		
214	79.0	63.1	94.7
179	19.8	19.4	29.0

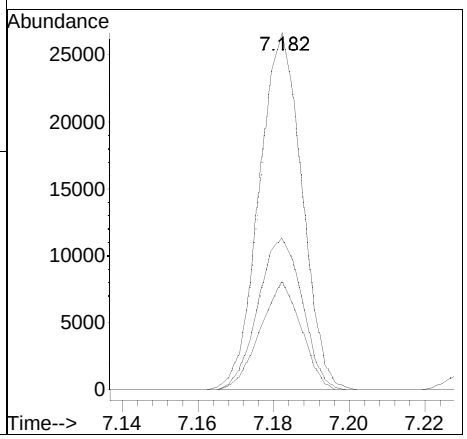


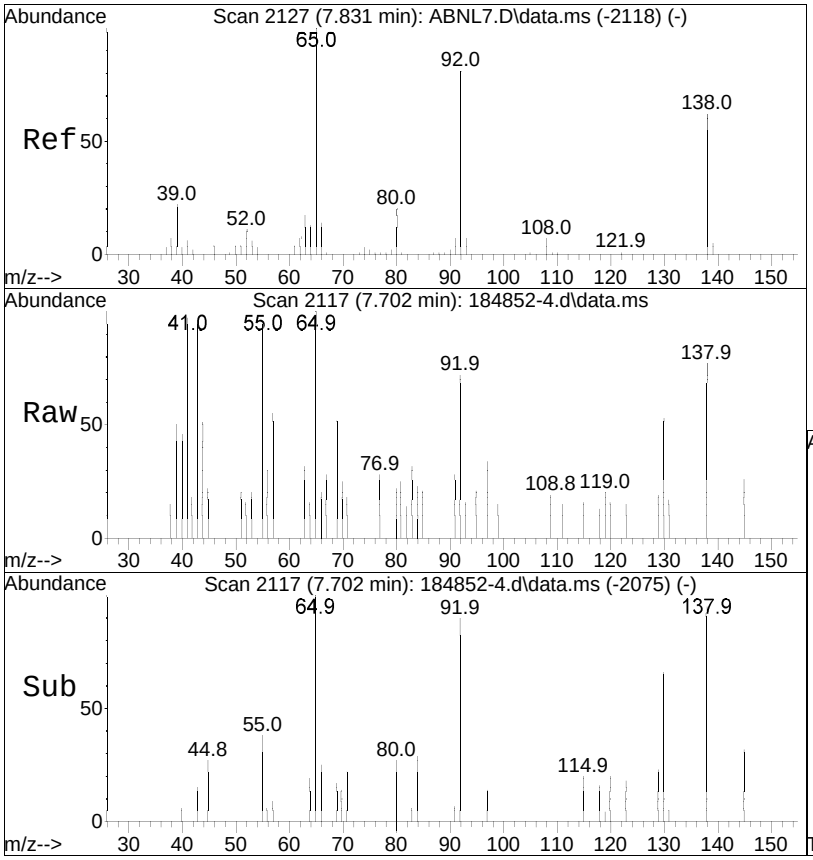


#61
Biphenyl
Concen: 4.58 ug/ml
RT: 7.182 min Scan# 1934
Delta R.T. 0.000 min
Lab File: 184852-4.d
Acq: 9 Dec 2018 10:11 pm

Tgt Ion:154 Resp: 20854

Ion	Ratio	Lower	Upper
154	100		
153	44.0	33.0	49.6
152	29.2	21.7	32.5

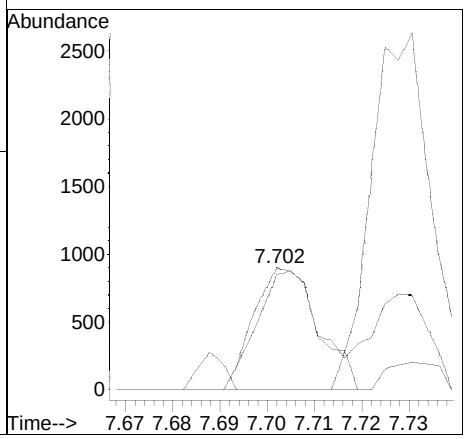


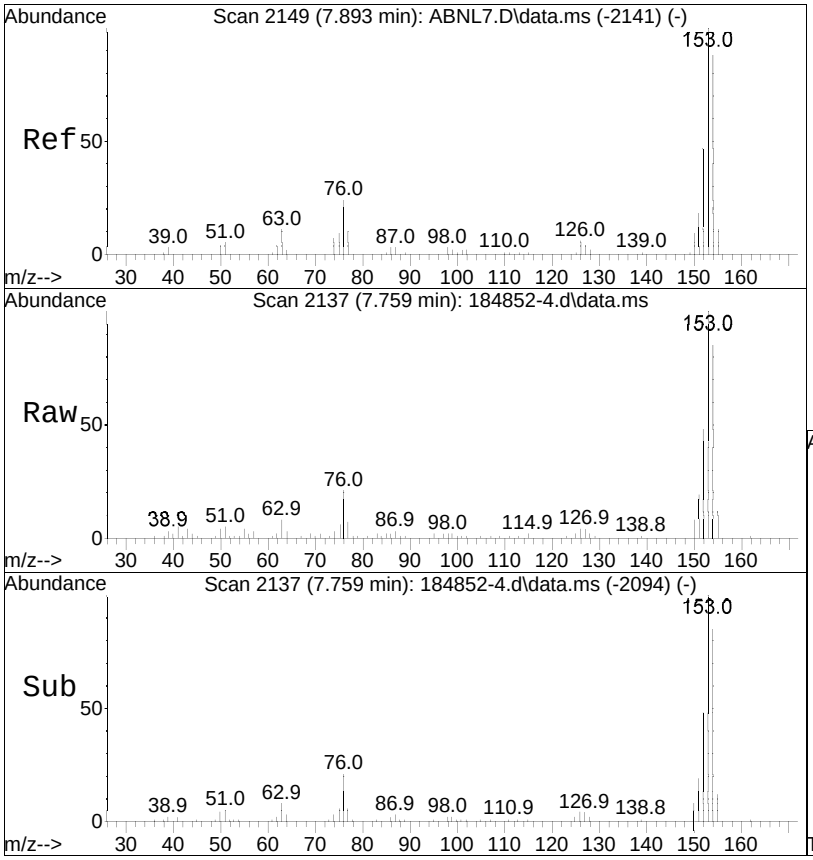


#63
3-Nitroaniline
Concen: 0.77 ug/ml M3
RT: 7.702 min Scan# 2117
Delta R.T. -0.006 min
Lab File: 184852-4.d
Acq: 9 Dec 2018 10:11 pm

Tgt Ion:138 Resp: 845

Ion	Ratio	Lower	Upper
138	100		
92	0.0	95.4	143.2#
108	0.0	8.6	12.8#

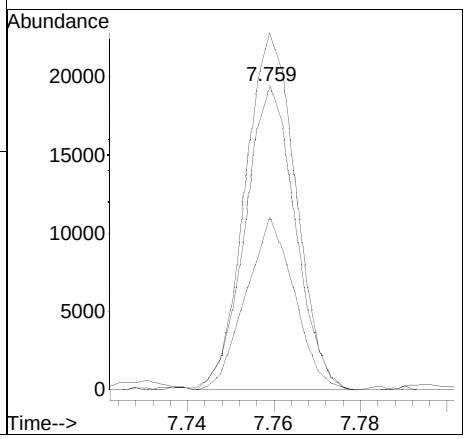


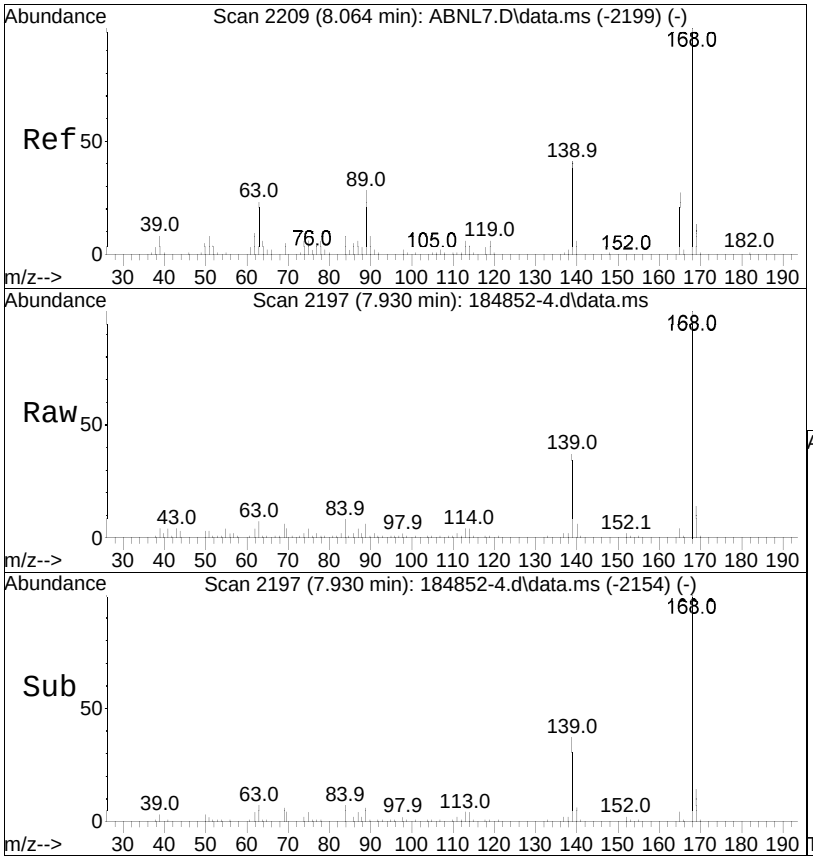


#64
Acenaphthene
Concen: 4.52 ug/ml
RT: 7.759 min Scan# 2137
Delta R.T. -0.003 min
Lab File: 184852-4.d
Acq: 9 Dec 2018 10:11 pm

Tgt Ion:154 Resp: 15604

Ion	Ratio	Lower	Upper
154	100		
153	119.8	91.3	136.9
152	55.3	41.0	61.4

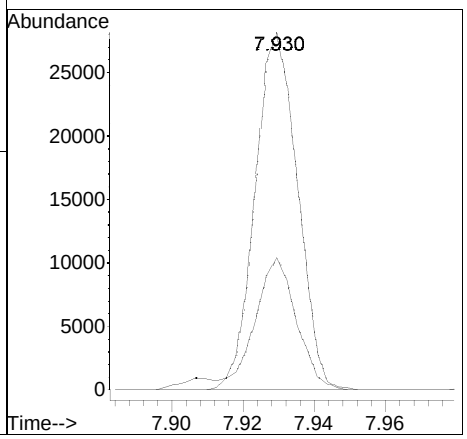


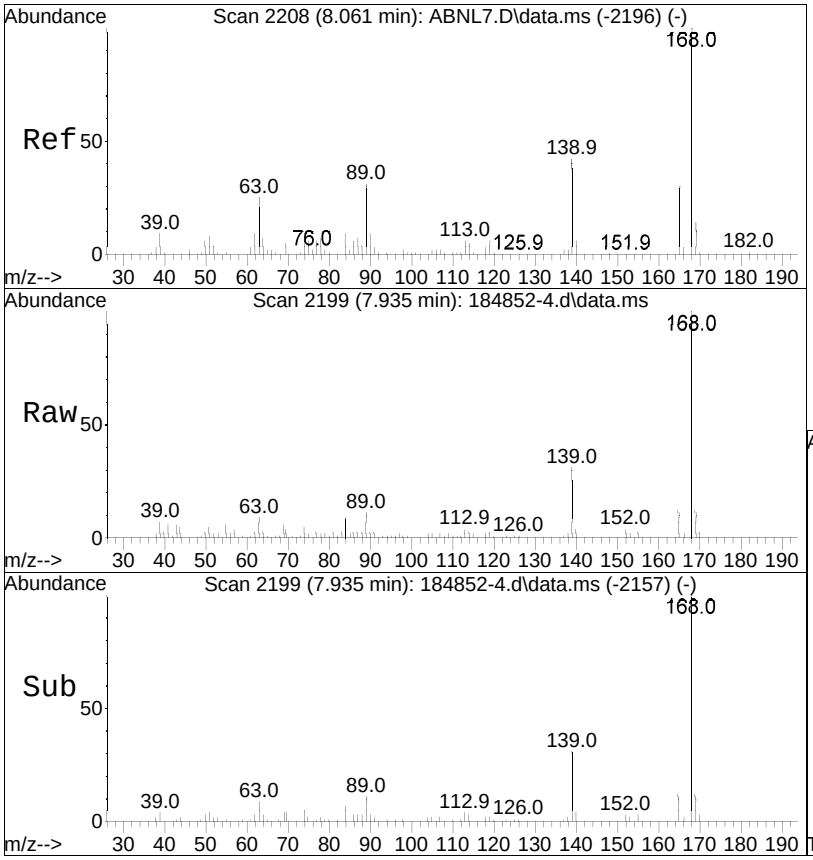


#66
Dibenzofuran
Concen: 4.58 ug/ml
RT: 7.930 min Scan# 2197
Delta R.T. -0.003 min
Lab File: 184852-4.d
Acq: 9 Dec 2018 10:11 pm

Tgt Ion:168 Resp: 23064

Ion	Ratio	Lower	Upper
168	100		
139	39.0	33.2	49.8

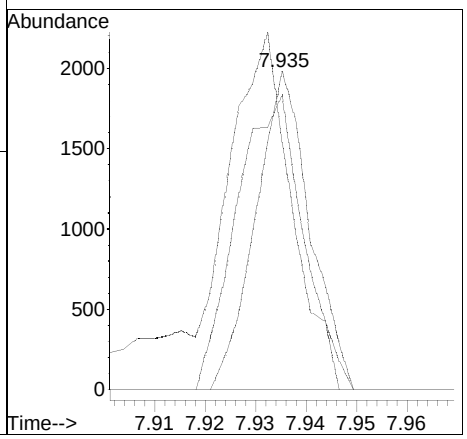


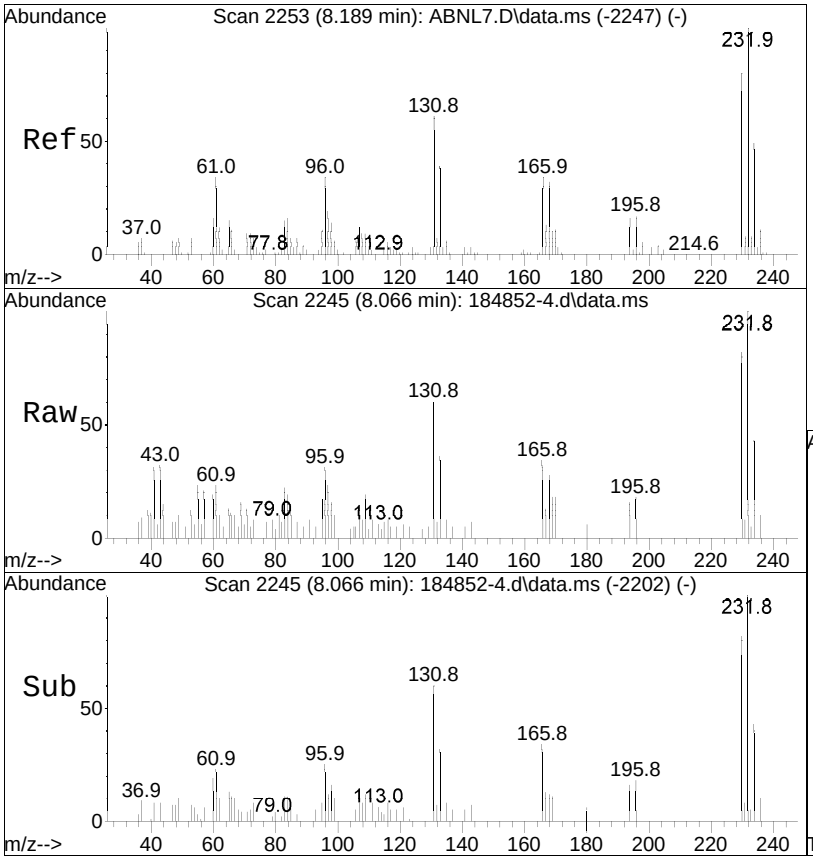


#67
2,4-Dinitrotoluene
Concen: 1.26 ug/ml
RT: 7.935 min Scan# 2199
Delta R.T. -0.006 min
Lab File: 184852-4.d
Acq: 9 Dec 2018 10:11 pm

Tgt Ion:165 Resp: 1479

Ion	Ratio	Lower	Upper
165	100		
89	111.4	75.7	113.5
63	154.7	62.6	94.0#

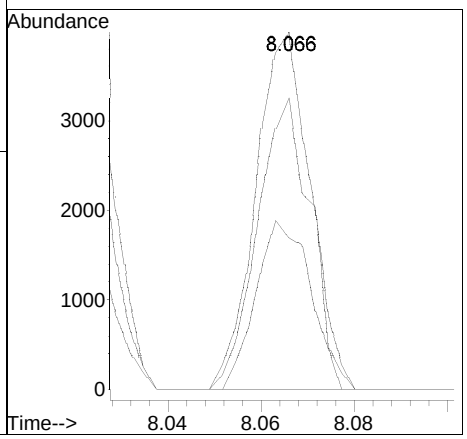


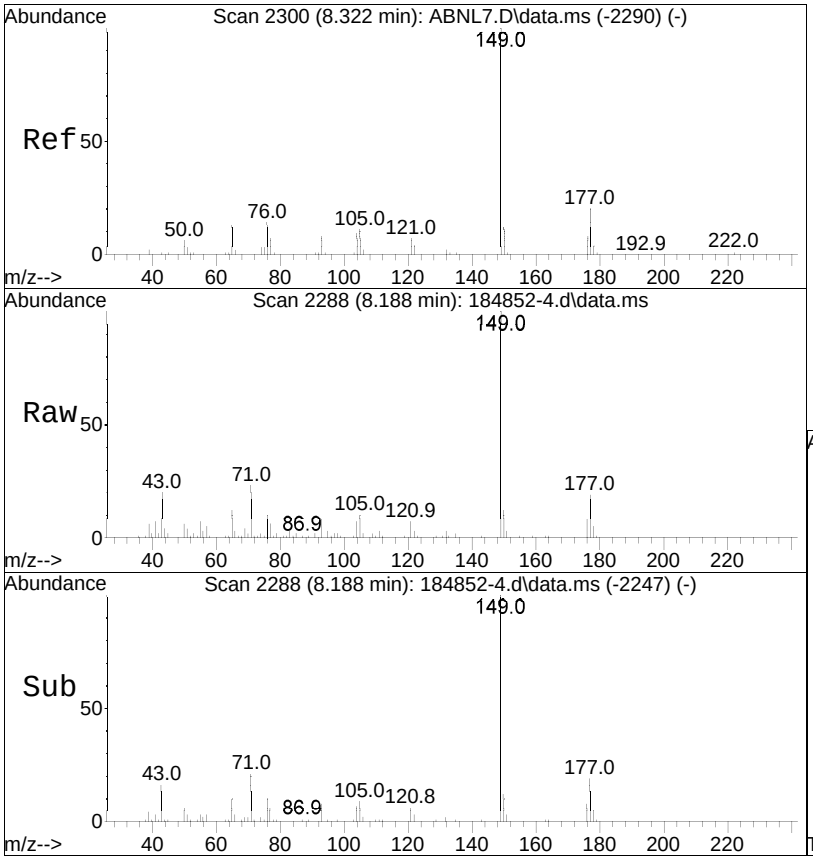


#70
2,3,4,6-Tetrachlorophenol
Concen: 3.70 ug/ml
RT: 8.066 min Scan# 2245
Delta R.T. -0.003 min
Lab File: 184852-4.d
Acq: 9 Dec 2018 10:11 pm

Tgt Ion:232 Resp: 3254

Ion	Ratio	Lower	Upper
232	100		
230	79.6	63.7	95.5
234	46.9	38.4	57.6

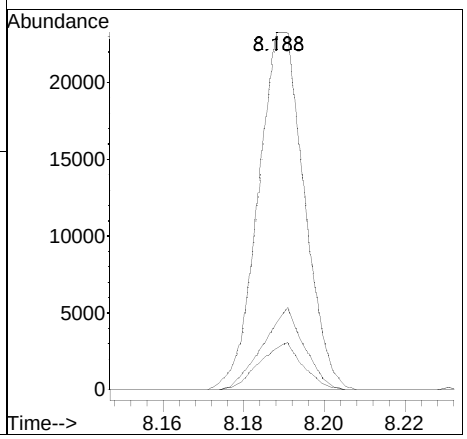


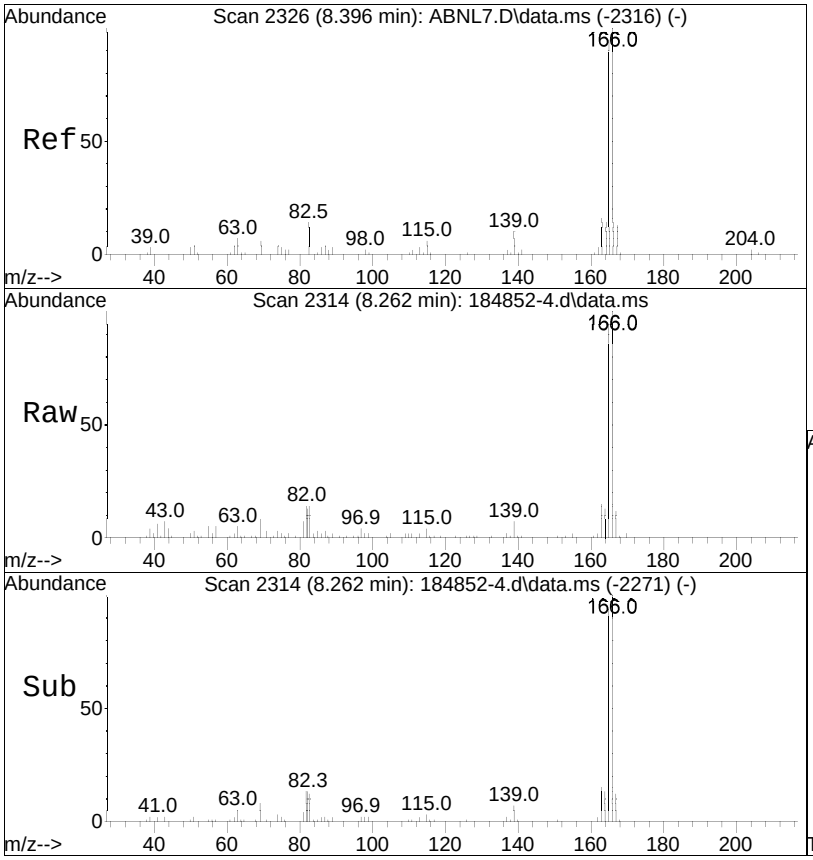


#71
Diethyl phthalate
Concen: 4.24 ug/ml
RT: 8.188 min Scan# 2288
Delta R.T. -0.009 min
Lab File: 184852-4.d
Acq: 9 Dec 2018 10:11 pm

Tgt Ion:149 Resp: 18248

Ion	Ratio	Lower	Upper
149	100		
177	21.0	15.5	23.3
150	12.7	9.5	14.3

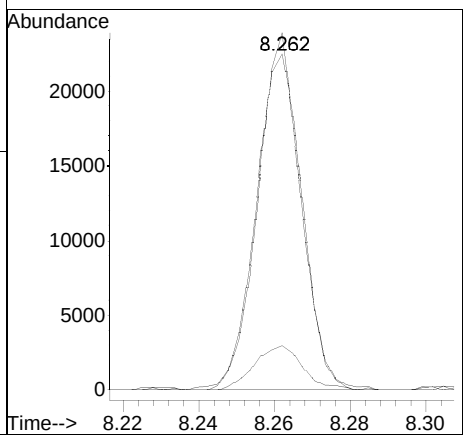


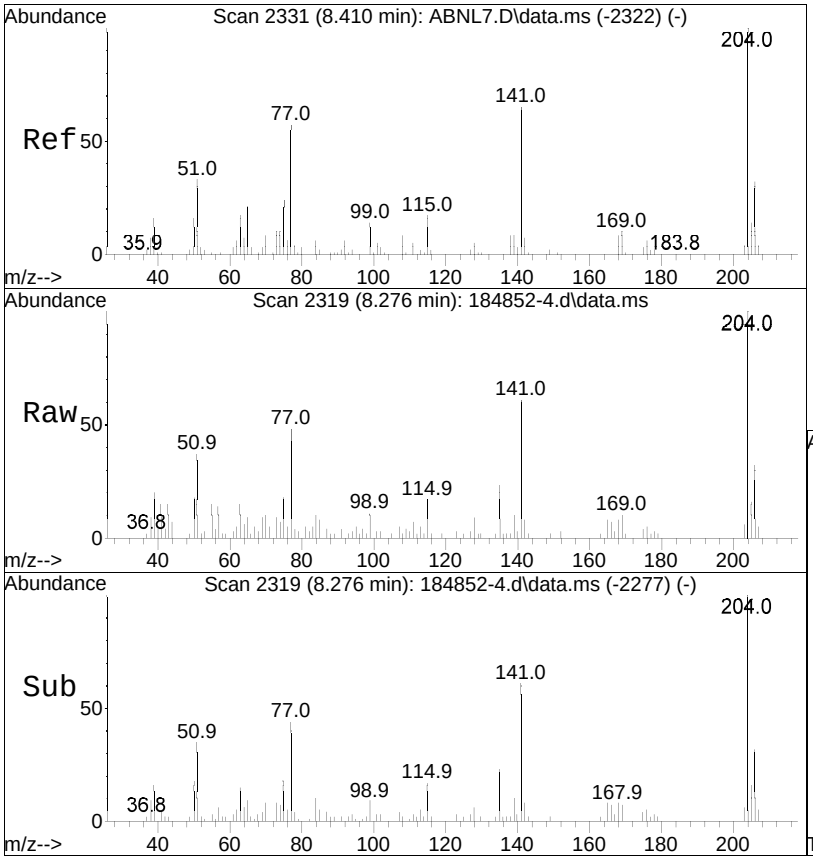


#72
Fluorene
Concen: 4.60 ug/ml
RT: 8.262 min Scan# 2314
Delta R.T. -0.003 min
Lab File: 184852-4.d
Acq: 9 Dec 2018 10:11 pm

Tgt Ion:166 Resp: 18612

Ion	Ratio	Lower	Upper
166	100		
165	103.0	79.3	118.9
167	14.3	10.6	16.0

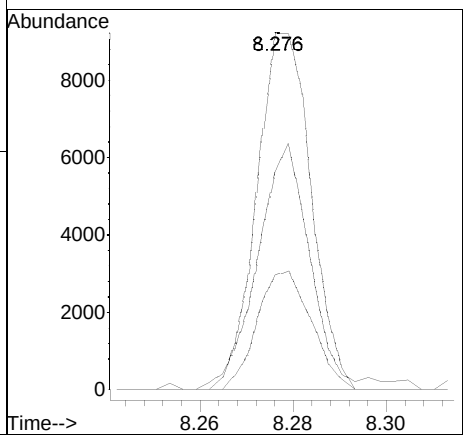


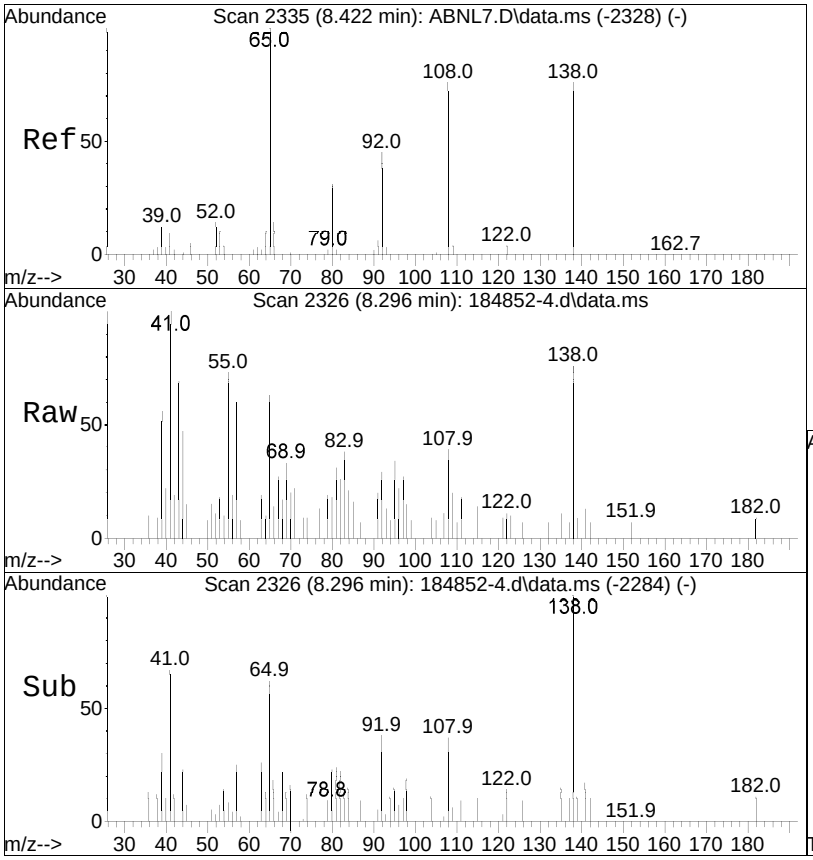


#73
4-Chlorophenyl phenyl ether
Concen: 4.24 ug/ml
RT: 8.276 min Scan# 2319
Delta R.T. -0.006 min
Lab File: 184852-4.d
Acq: 9 Dec 2018 10:11 pm

Tgt Ion:204 Resp: 7422

Ion	Ratio	Lower	Upper
204	100		
206	33.3	26.2	39.4
141	68.3	57.2	85.8

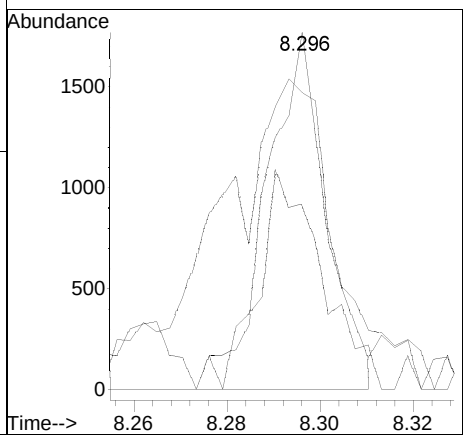


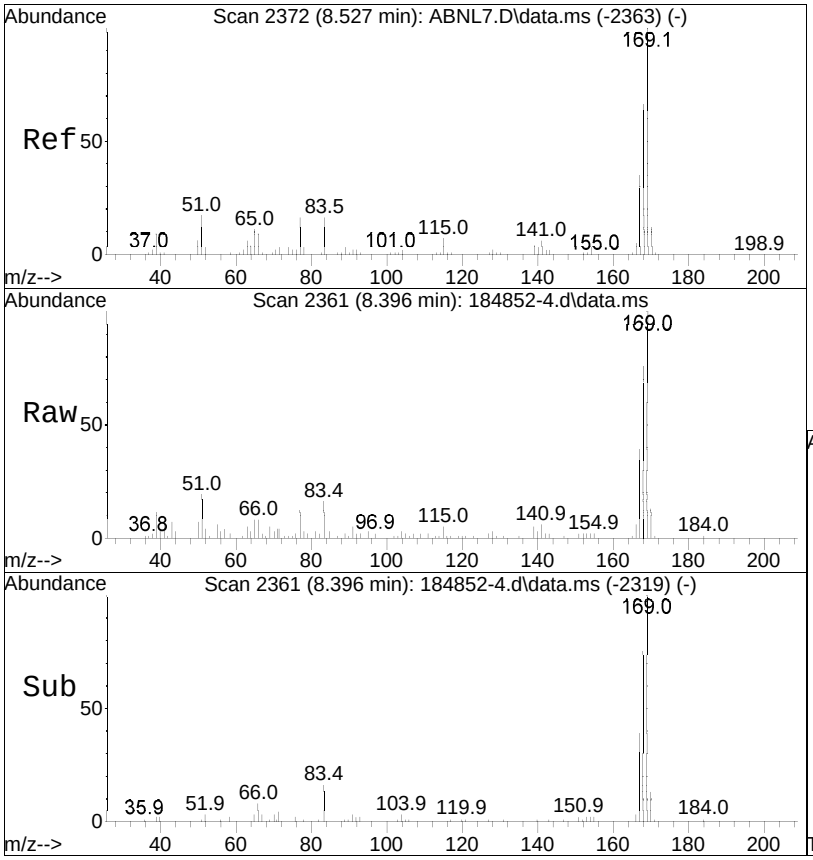


#74
4-Nitroaniline
Concen: 1.45 ug/ml
RT: 8.296 min Scan# 2326
Delta R.T. -0.006 min
Lab File: 184852-4.d
Acq: 9 Dec 2018 10:11 pm

Tgt Ion:138 Resp: 1573

Ion	Ratio	Lower	Upper
138	100		
108	67.1	62.7	94.1
65	175.3	107.8	161.6#

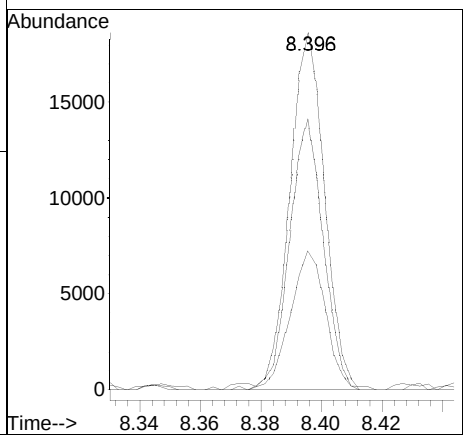


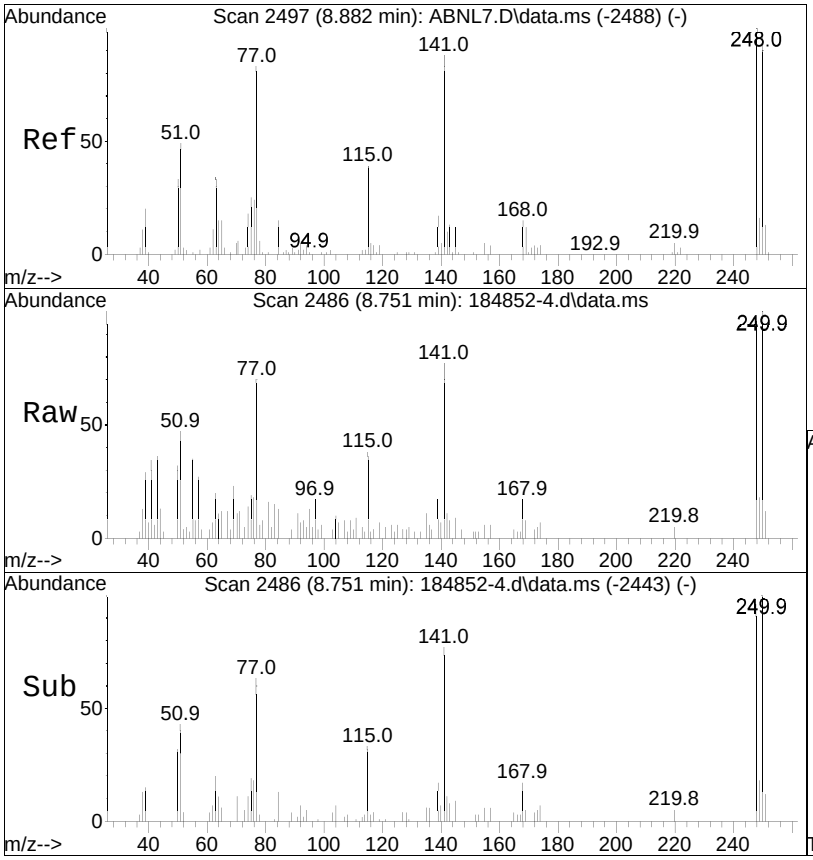


#76
NDPA/DPA
Concen: 4.39 ug/ml
RT: 8.396 min Scan# 2361
Delta R.T. -0.006 min
Lab File: 184852-4.d
Acq: 9 Dec 2018 10:11 pm

Tgt Ion:169 Resp: 15015

Ion	Ratio	Lower	Upper
169	100		
168	72.5	55.4	83.0
167	39.8	30.3	45.5

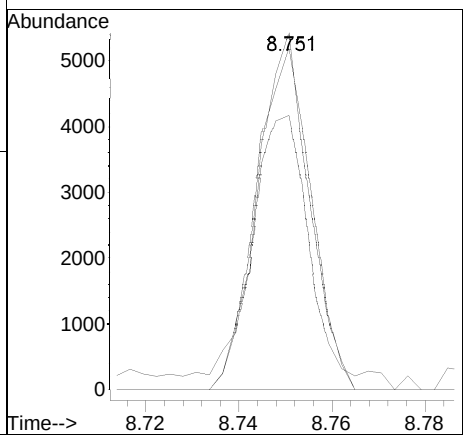


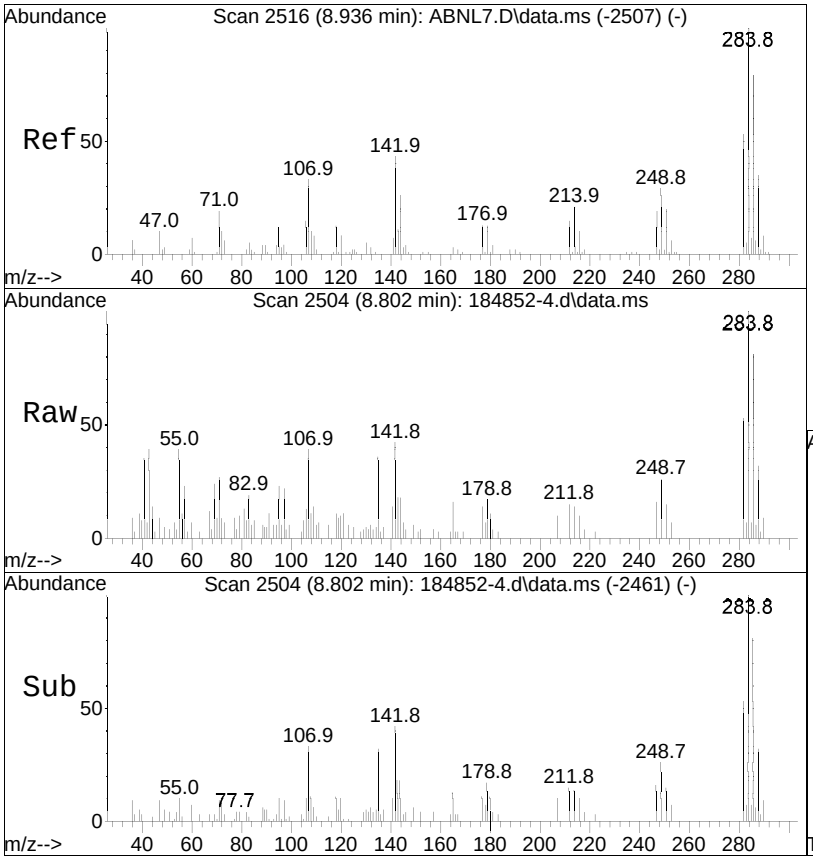


#79
4-Bromophenyl phenyl ether
Concen: 4.51 ug/ml
RT: 8.751 min Scan# 2486
Delta R.T. -0.003 min
Lab File: 184852-4.d
Acq: 9 Dec 2018 10:11 pm

Tgt Ion:248 Resp: 4243

Ion	Ratio	Lower	Upper
248	100		
141	88.1	76.8	115.2
250	97.9	79.7	119.5

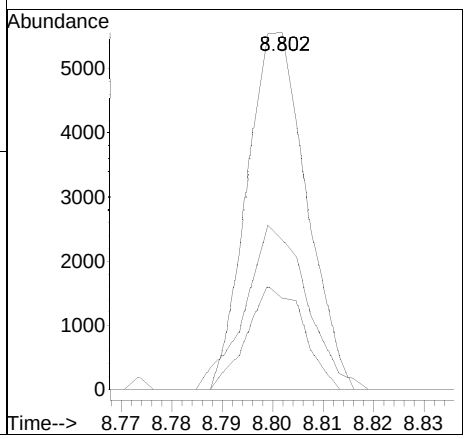


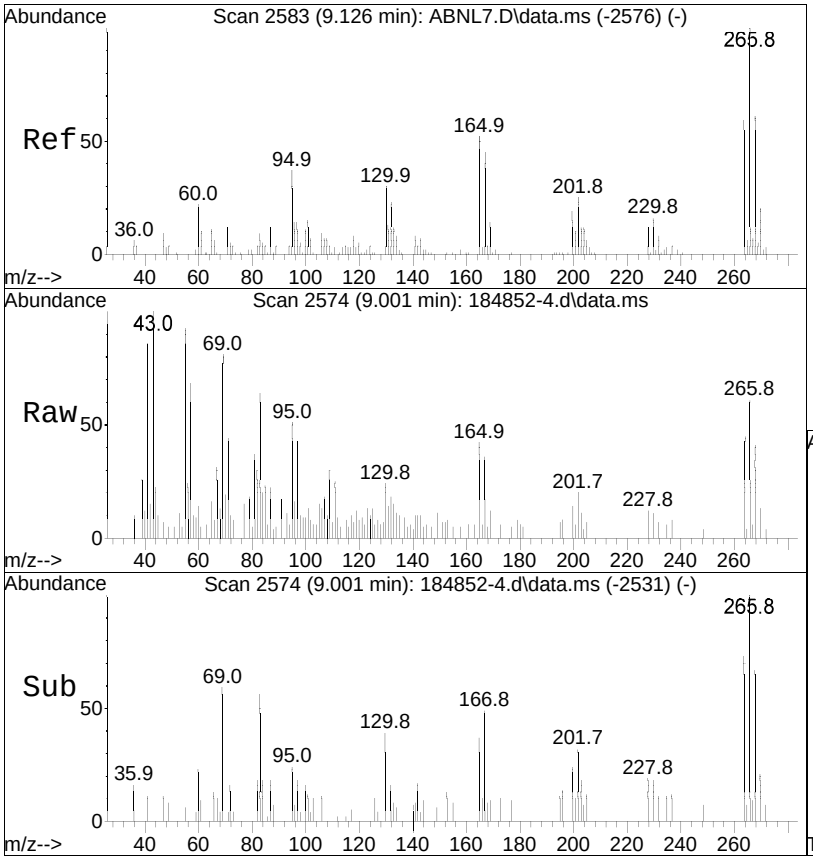


#80
Hexachlorobenzene
Concen: 4.46 ug/ml
RT: 8.802 min Scan# 2504
Delta R.T. -0.003 min
Lab File: 184852-4.d
Acq: 9 Dec 2018 10:11 pm

Tgt Ion:284 Resp: 4541

Ion	Ratio	Lower	Upper
284	100		
142	48.0	35.8	53.6
249	27.4	24.7	37.1

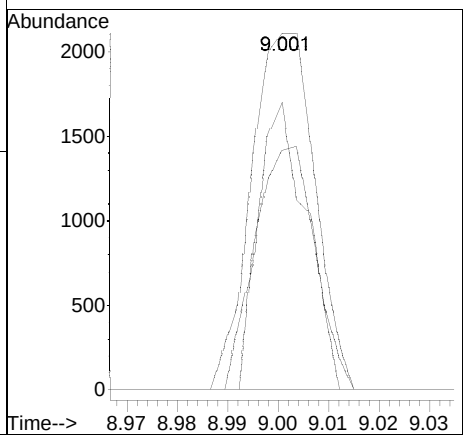


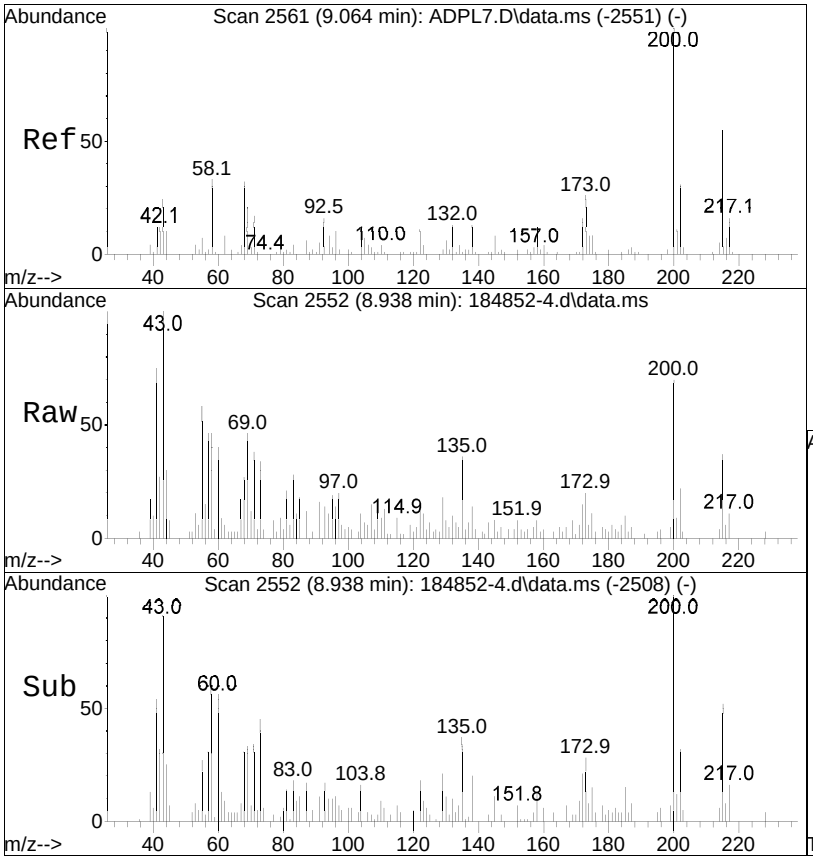


#81
Pentachlorophenol
Concen: 2.87 ug/ml
RT: 9.001 min Scan# 2574
Delta R.T. -0.003 min
Lab File: 184852-4.d
Acq: 9 Dec 2018 10:11 pm

Tgt Ion:266 Resp: 1847

Ion	Ratio	Lower	Upper
266	100		
264	64.4	51.8	77.6
268	61.1	49.8	74.8

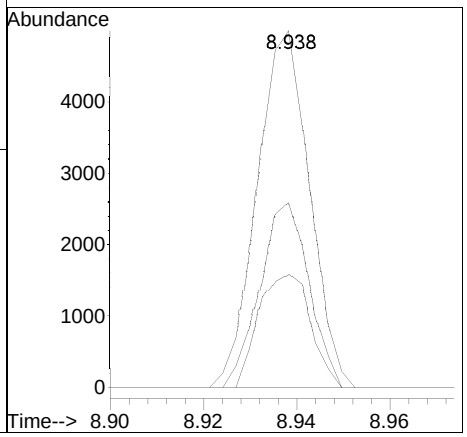


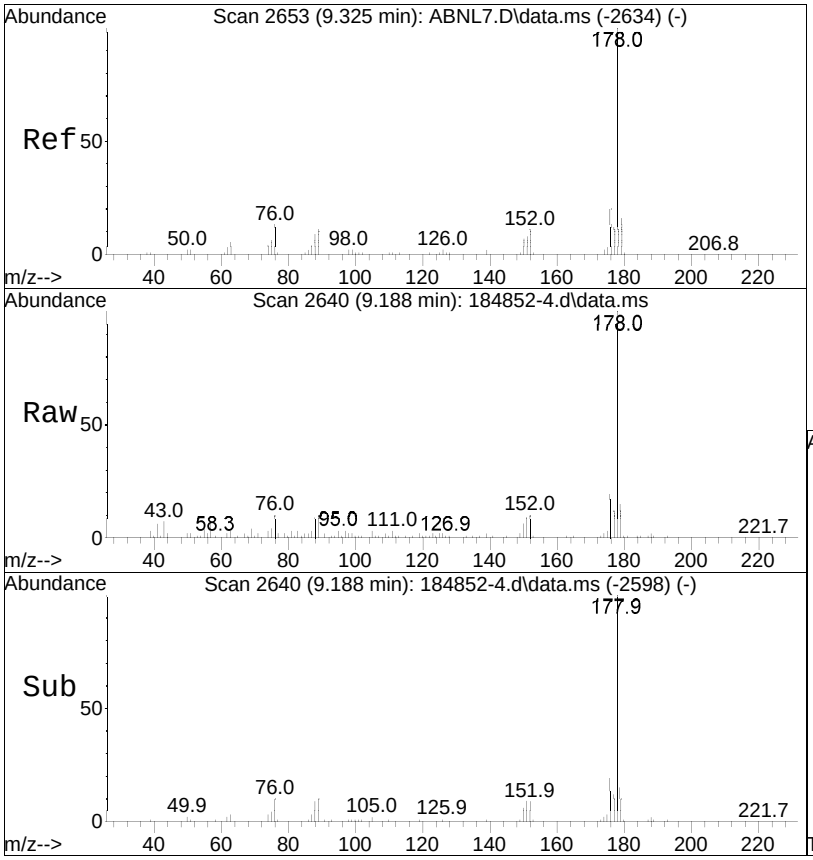


#86
Atrazine
Concen: 4.37 ug/ml
RT: 8.938 min Scan# 2552
Delta R.T. 0.000 min
Lab File: 184852-4.d
Acq: 9 Dec 2018 10:11 pm

Tgt Ion:200 Resp: 3886

Ion	Ratio	Lower	Upper
200	100		
202	31.6	24.9	37.3
215	48.7	34.0	51.0

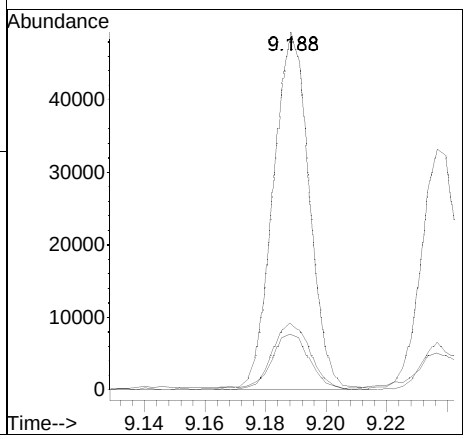


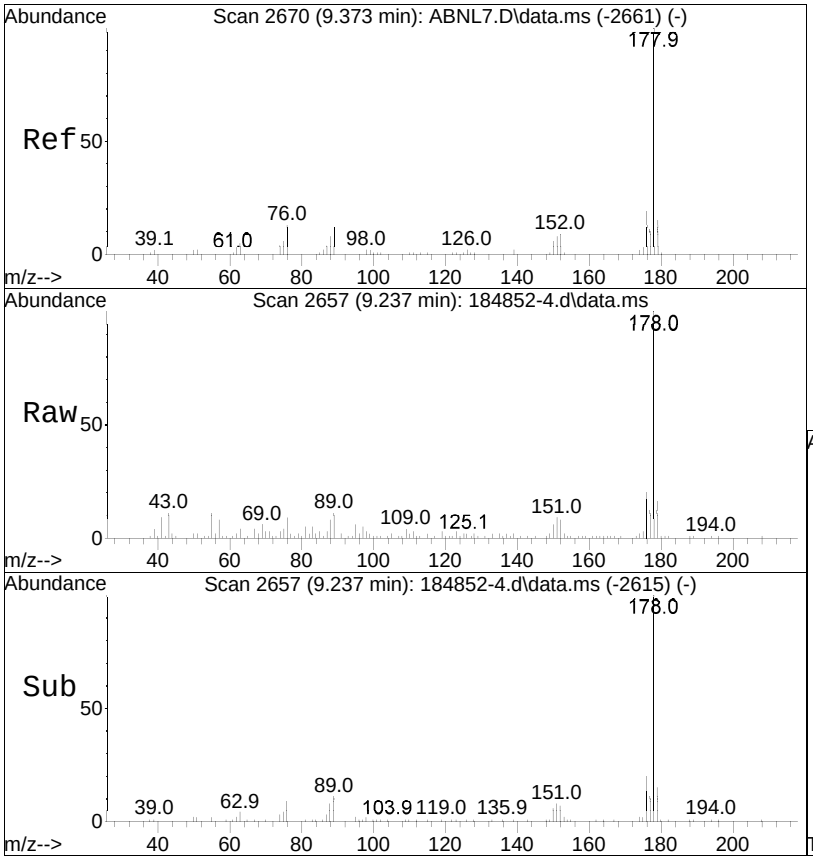


#88
Phenanthrene
Concen: 7.22 ug/ml
RT: 9.188 min Scan# 2640
Delta R.T. -0.006 min
Lab File: 184852-4.d
Acq: 9 Dec 2018 10:11 pm

Tgt Ion:178 Resp: 41131

Ion	Ratio	Lower	Upper
178	100		
179	14.9	12.2	18.2
176	19.7	15.4	23.2

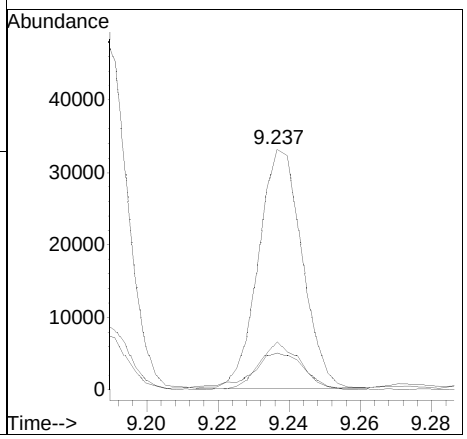


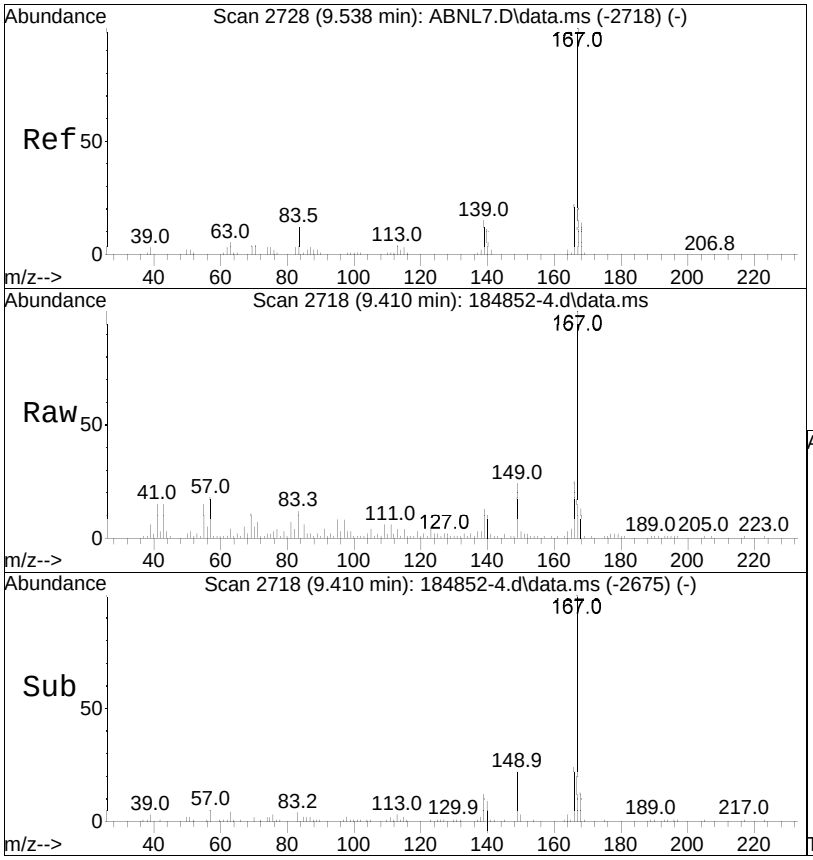


#89
Anthracene
Concen: 4.95 ug/ml
RT: 9.237 min Scan# 2657
Delta R.T. -0.006 min
Lab File: 184852-4.d
Acq: 9 Dec 2018 10:11 pm

Tgt Ion:178 Resp: 28079

Ion	Ratio	Lower	Upper
178	100		
179	16.5	12.1	18.1
176	19.1	14.8	22.2

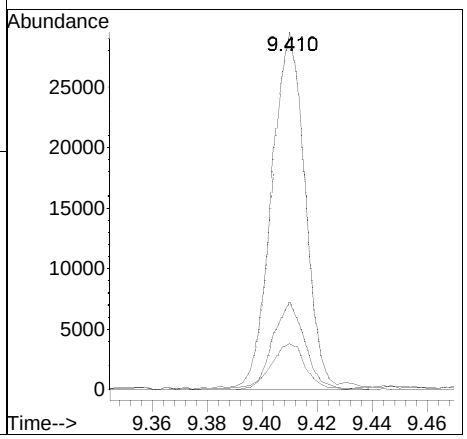


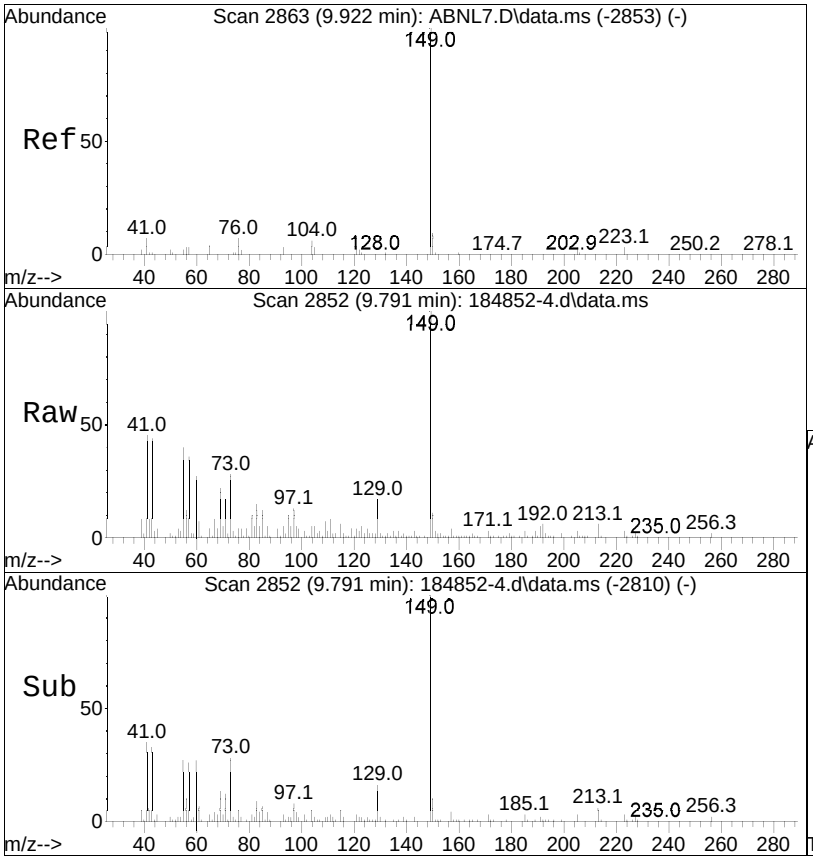


#90
Carbazole
Concen: 4.78 ug/ml
RT: 9.410 min Scan# 2718
Delta R.T. -0.003 min
Lab File: 184852-4.d
Acq: 9 Dec 2018 10:11 pm

Tgt Ion:167 Resp: 25104

Ion	Ratio	Lower	Upper
167	100		
168	13.3	10.6	15.8
166	22.1	17.7	26.5

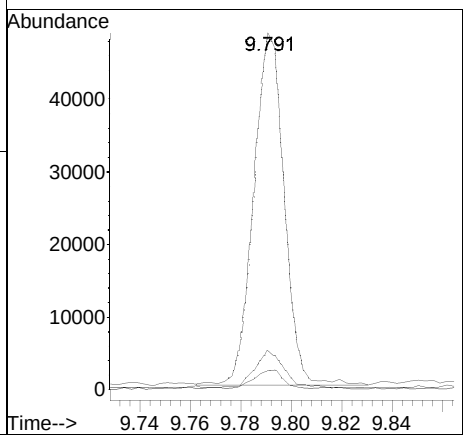


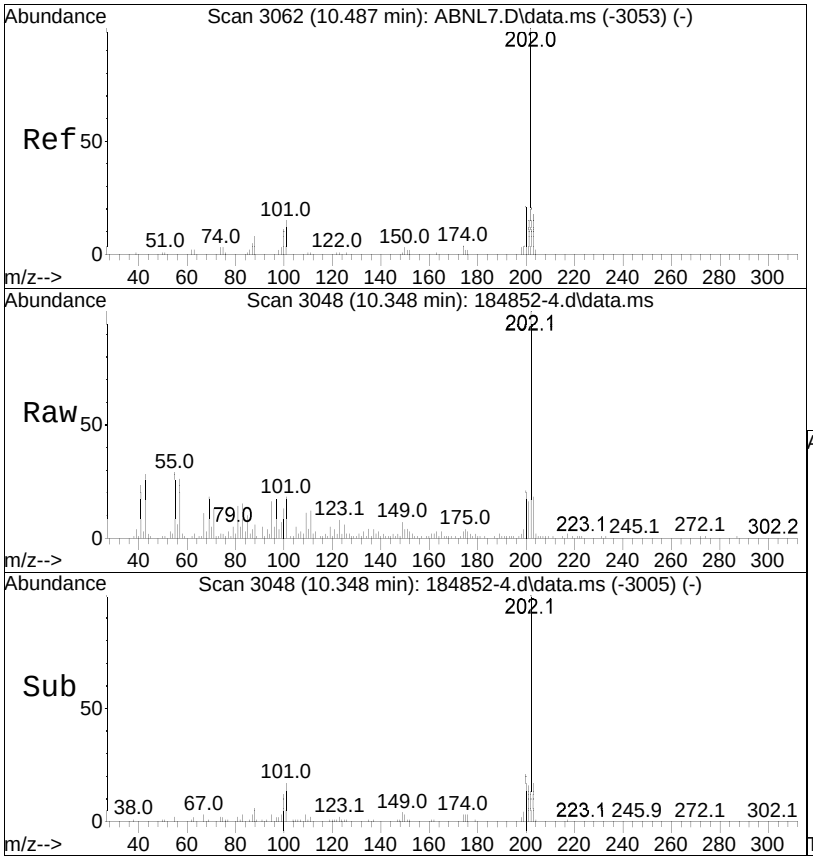


#91
Di-n-butylphthalate
Concen: 5.95 ug/ml
RT: 9.791 min Scan# 2852
Delta R.T. -0.006 min
Lab File: 184852-4.d
Acq: 9 Dec 2018 10:11 pm

Tgt Ion:149 Resp: 40049

Ion	Ratio	Lower	Upper
149	100		
150	9.8	7.4	11.0
104	4.8	4.2	6.2

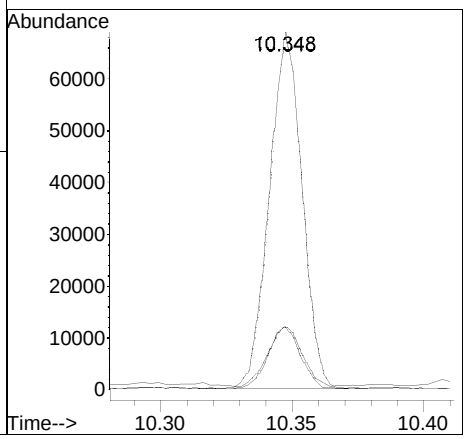


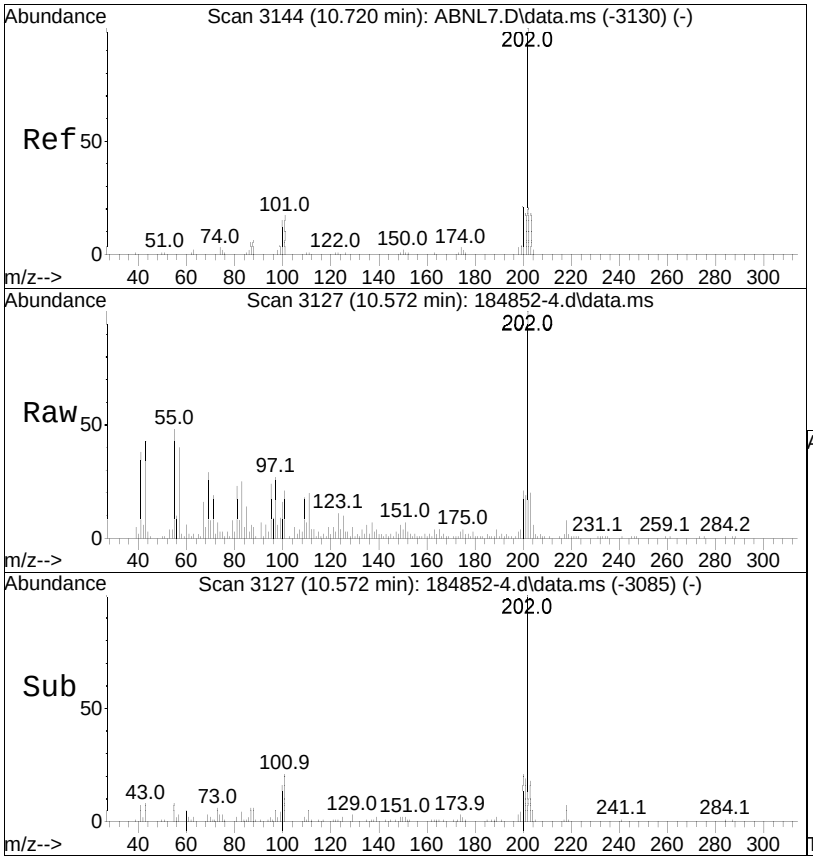


#92
Fluoranthene
Concen: 10.56 ug/ml
RT: 10.348 min Scan# 3048
Delta R.T. -0.003 min
Lab File: 184852-4.d
Acq: 9 Dec 2018 10:11 pm

Tgt Ion:202 Resp: 58946

Ion	Ratio	Lower	Upper
202	100		
101	17.5	11.4	17.0#
203	17.4	13.9	20.9

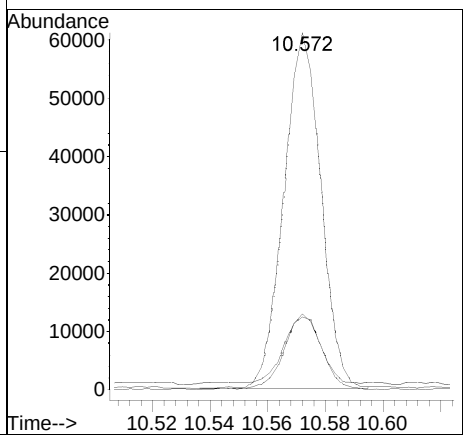


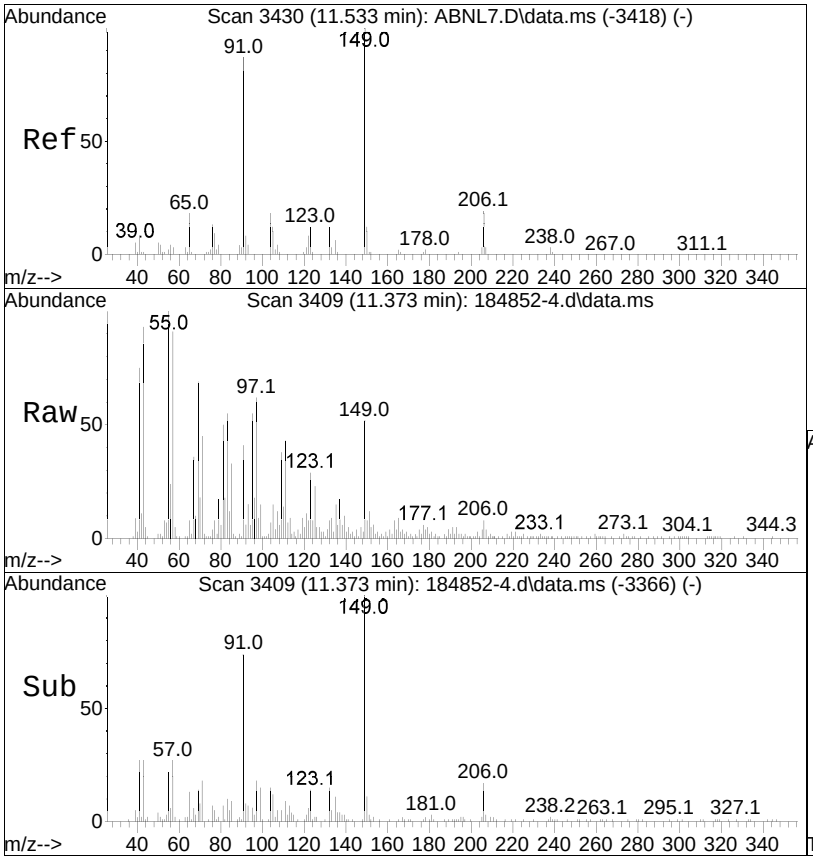


#94
Pyrene
Concen: 9.33 ug/ml
RT: 10.572 min Scan# 3127
Delta R.T. -0.006 min
Lab File: 184852-4.d
Acq: 9 Dec 2018 10:11 pm

Tgt Ion:202 Resp: 54014

Ion	Ratio	Lower	Upper
202	100		
200	21.9	17.0	25.4
203	19.0	14.2	21.2

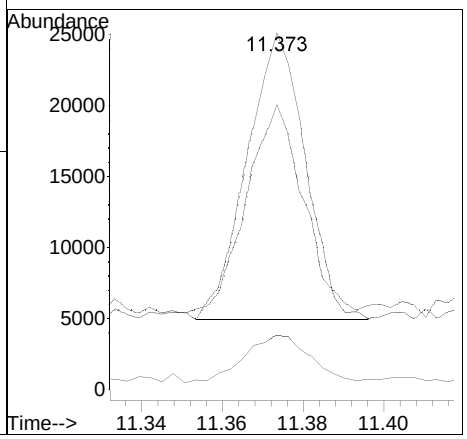


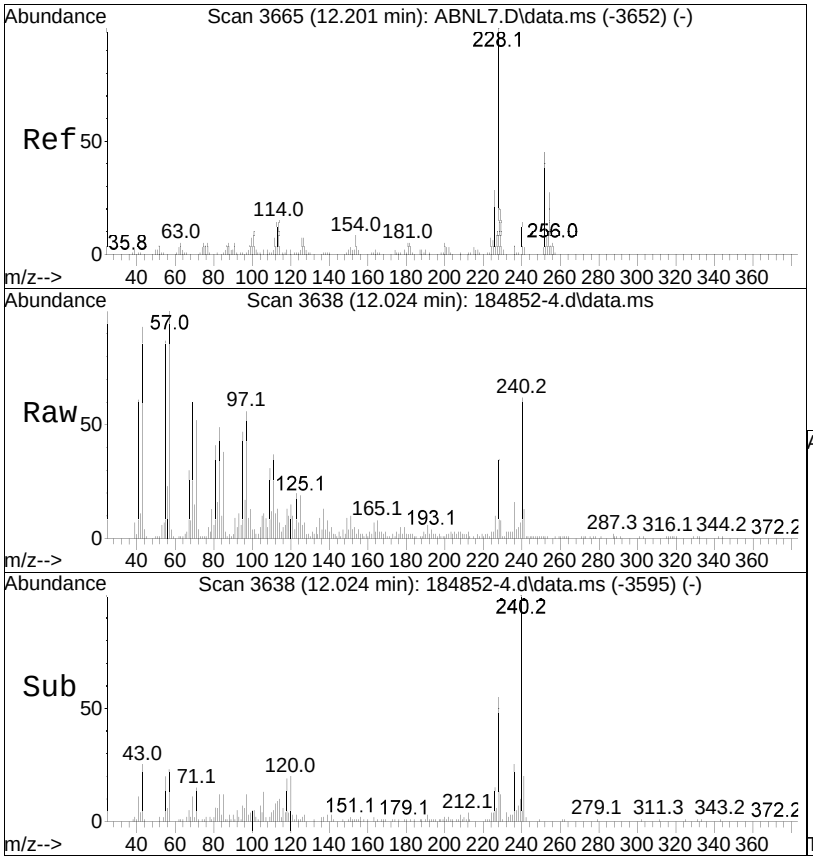


#96
Butyl benzyl phthalate
Concen: 6.75 ug/ml
RT: 11.373 min Scan# 3409
Delta R.T. -0.003 min
Lab File: 184852-4.d
Acq: 9 Dec 2018 10:11 pm

Tgt Ion:149 Resp: 20116

Ion	Ratio	Lower	Upper
149	100		
91	70.8	61.2	91.8
206	16.9	12.5	18.7

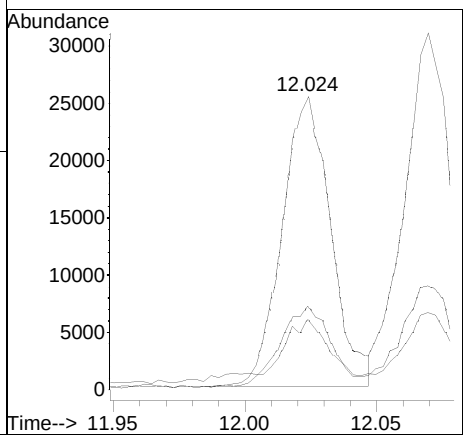


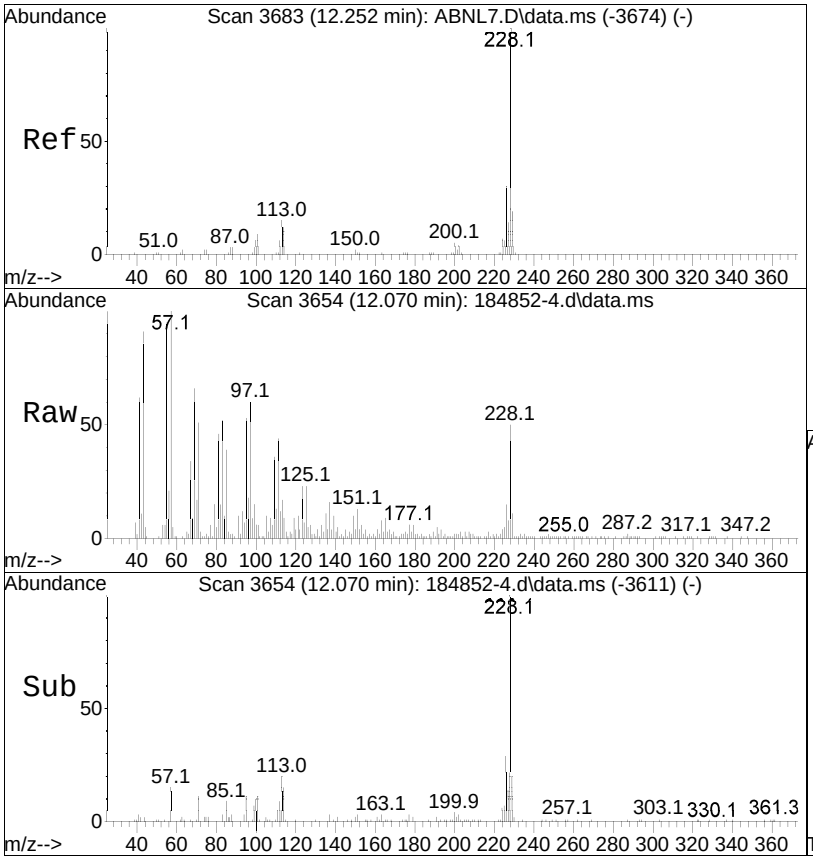


#104
Benzo(a)anthracene
Concen: 6.54 ug/ml
RT: 12.024 min Scan# 3638
Delta R.T. -0.003 min
Lab File: 184852-4.d
Acq: 9 Dec 2018 10:11 pm

Tgt Ion:228 Resp: 32379

Ion	Ratio	Lower	Upper
228	100		
226	30.1	22.2	33.2
229	19.6	15.6	23.4

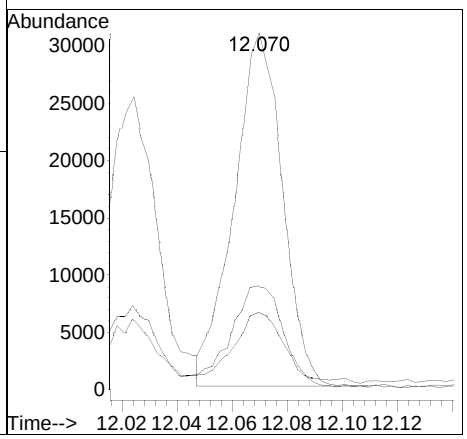


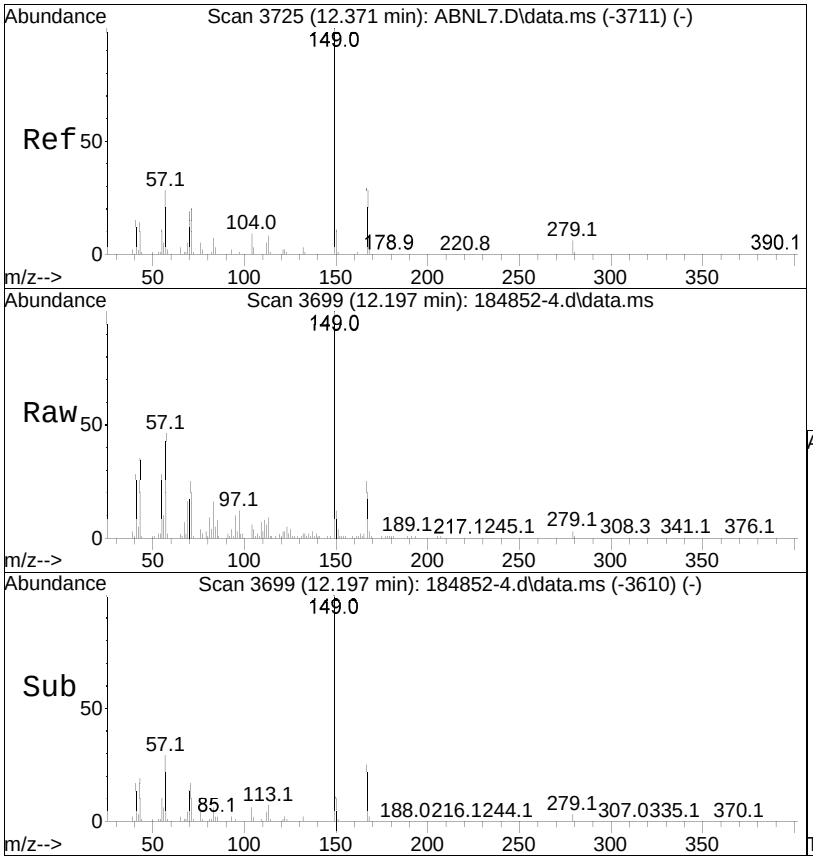


#106
Chrysene
Concen: 8.06 ug/ml
RT: 12.070 min Scan# 3654
Delta R.T. -0.003 min
Lab File: 184852-4.d
Acq: 9 Dec 2018 10:11 pm

Tgt Ion:228 Resp: 37678

Ion	Ratio	Lower	Upper
228	100		
226	31.4	24.6	37.0
229	19.4	15.8	23.6

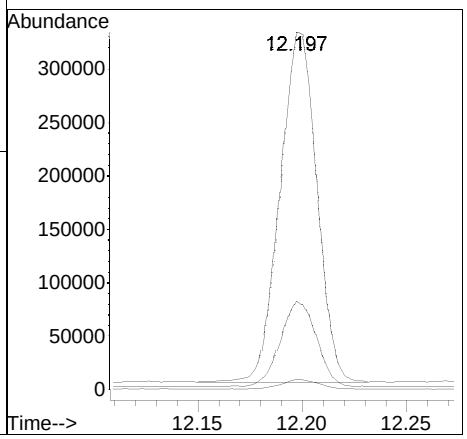


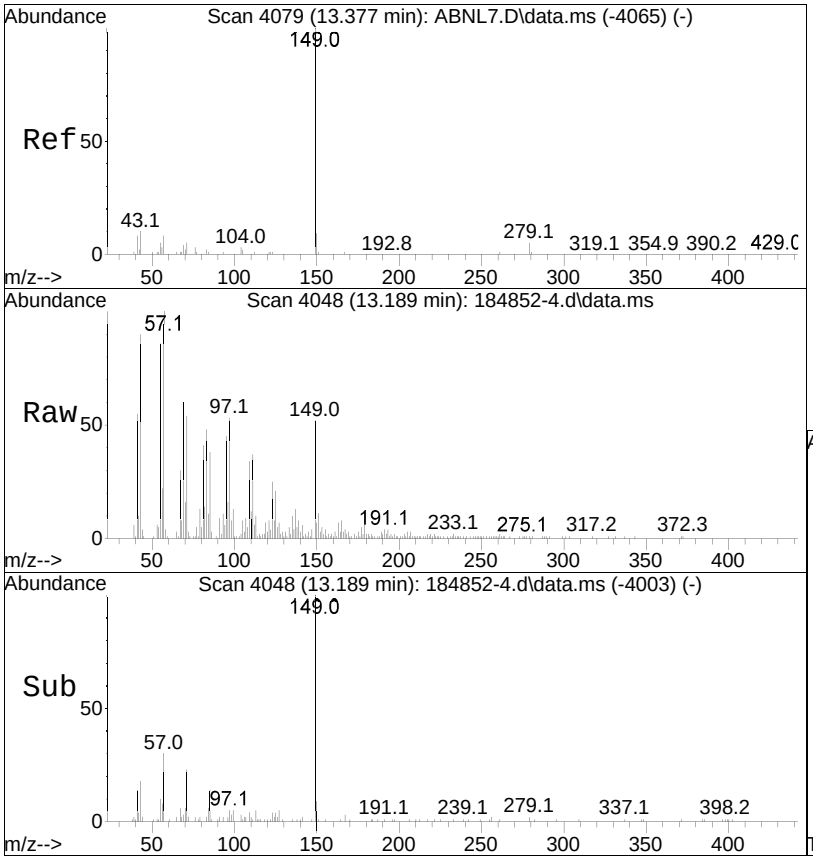


#107
Bis(2-ethylhexyl)phthalate
Concen: 102.18 ug/ml
RT: 12.197 min Scan# 3699
Delta R.T. 0.003 min
Lab File: 184852-4.d
Acq: 9 Dec 2018 10:11 pm

Tgt Ion:149 Resp: 399603

Ion	Ratio	Lower	Upper
149	100		
167	24.3	19.4	29.0
279	2.6	2.3	3.5

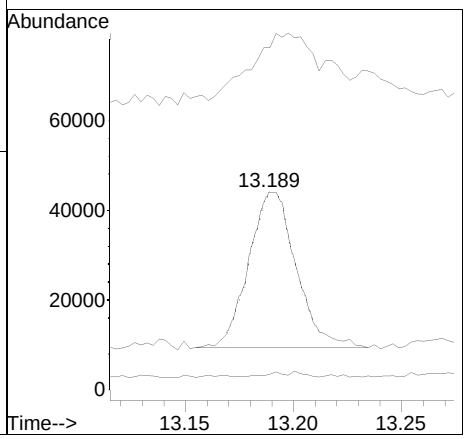


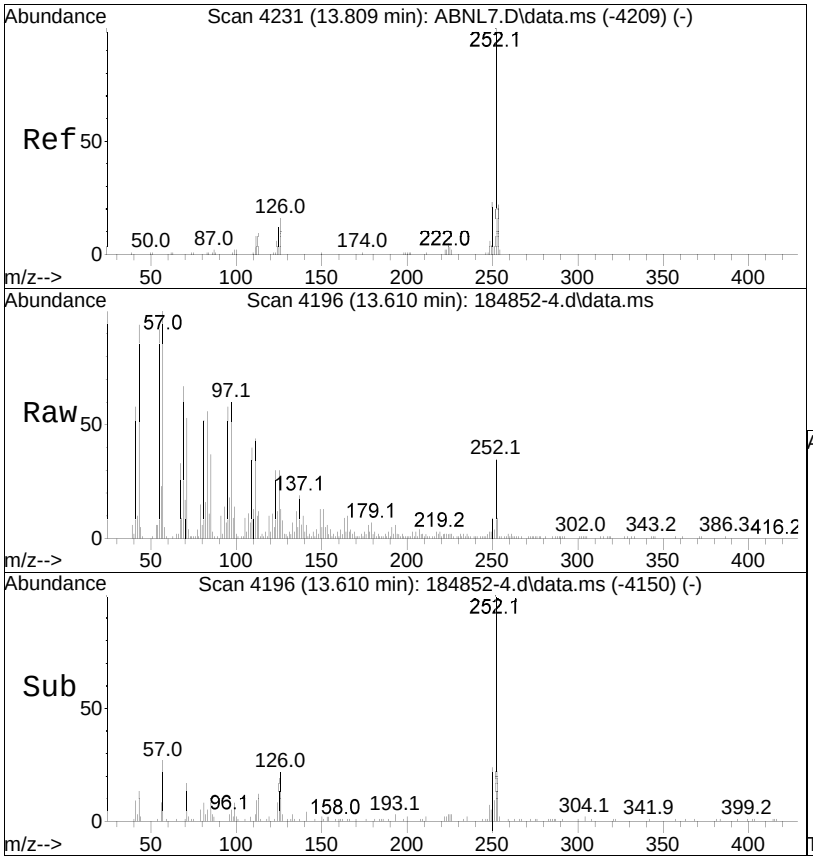


#108
Di-n-octylphthalate
Concen: 7.73 ug/ml
RT: 13.189 min Scan# 4048
Delta R.T. 0.003 min
Lab File: 184852-4.d
Acq: 9 Dec 2018 10:11 pm

Tgt Ion:149 Resp: 52272

Ion	Ratio	Lower	Upper
149	100		
43	53.7	10.1	15.1#
167	0.0	1.1	1.7#

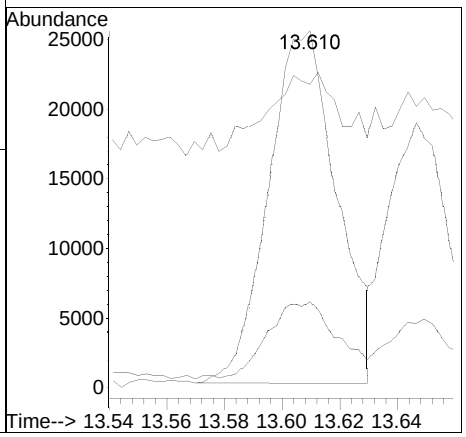


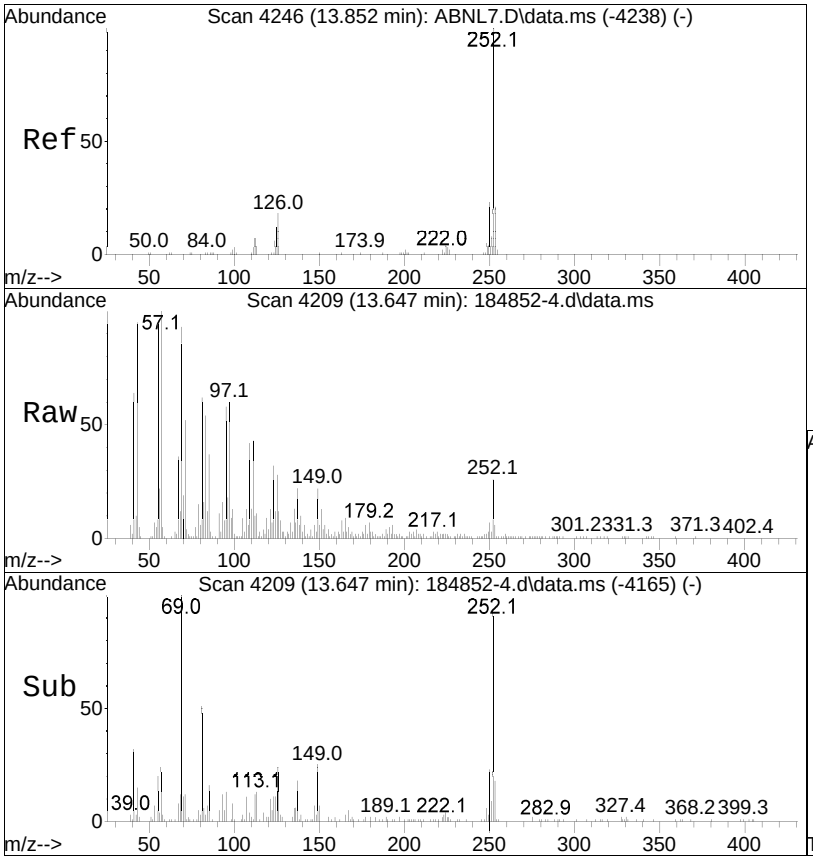


#109
Benzo(b)fluoranthene
Concen: 9.22 ug/ml
RT: 13.610 min Scan# 4196
Delta R.T. 0.006 min
Lab File: 184852-4.d
Acq: 9 Dec 2018 10:11 pm

Tgt Ion:252 Resp: 41782

Ion	Ratio	Lower	Upper
252	100		
125	20.6	11.6	17.4#
253	22.2	17.4	26.0

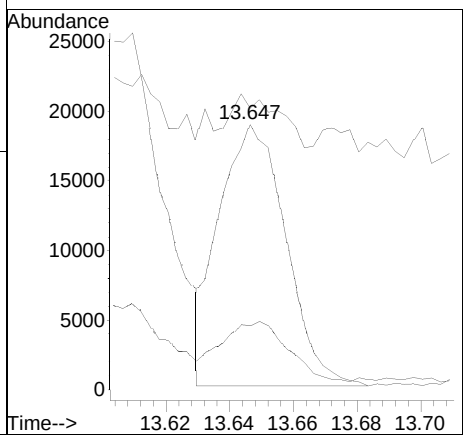


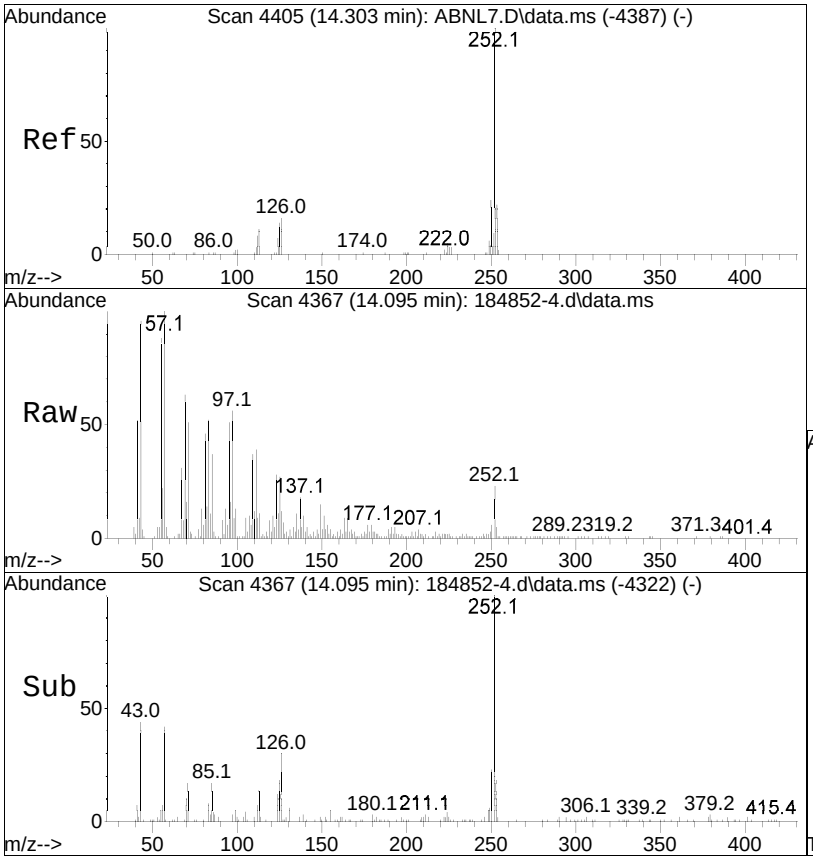


#110
Benzo(k)fluoranthene
Concen: 6.00 ug/ml
RT: 13.647 min Scan# 4209
Delta R.T. 0.000 min
Lab File: 184852-4.d
Acq: 9 Dec 2018 10:11 pm

Tgt Ion:252 Resp: 27342

Ion	Ratio	Lower	Upper
252	100		
125	15.0	11.4	17.0
253	23.3	17.2	25.8

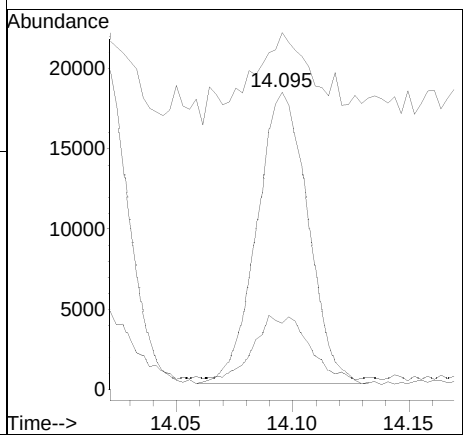


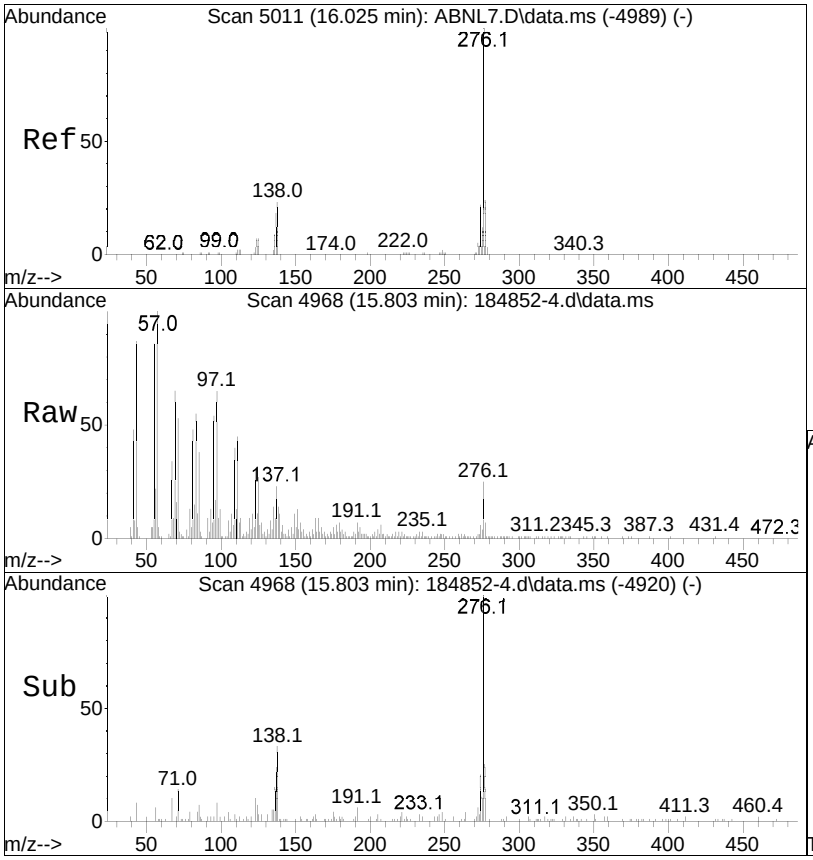


#111
Benzo(a)pyrene
Concen: 6.27 ug/ml
RT: 14.095 min Scan# 4367
Delta R.T. 0.003 min
Lab File: 184852-4.d
Acq: 9 Dec 2018 10:11 pm

Tgt Ion:252 Resp: 27577

Ion	Ratio	Lower	Upper
252	100		
125	22.7	12.6	18.8#
253	23.1	16.9	25.3

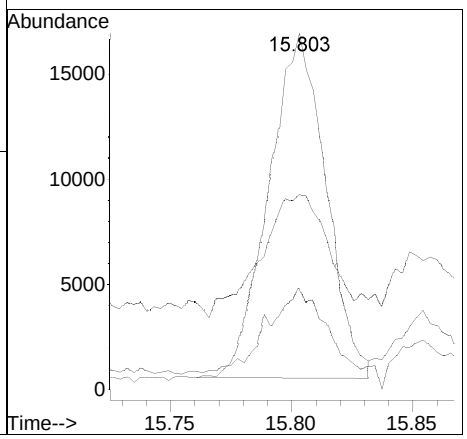


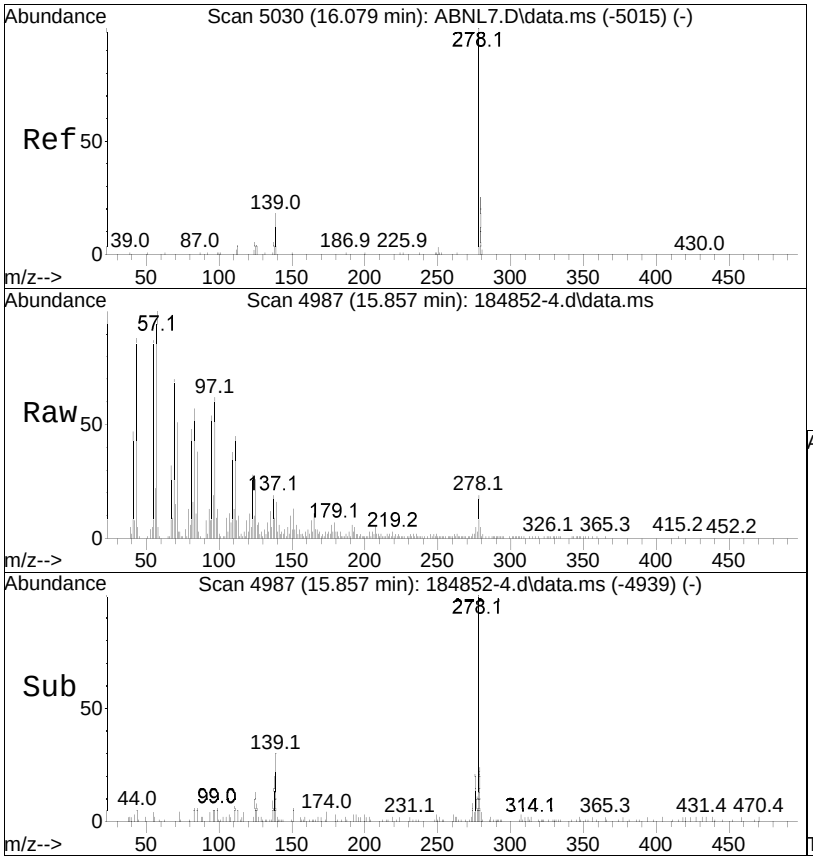


#113
Indeno(1,2,3-cd)pyrene
Concen: 6.18 ug/mL
RT: 15.803 min Scan# 4968
Delta R.T. 0.011 min
Lab File: 184852-4.d
Acq: 9 Dec 2018 10:11 pm

Tgt Ion:276 Resp: 26870

Ion	Ratio	Lower	Upper
276	100		
138	41.3	21.4	32.0#
277	36.8	19.2	28.8#

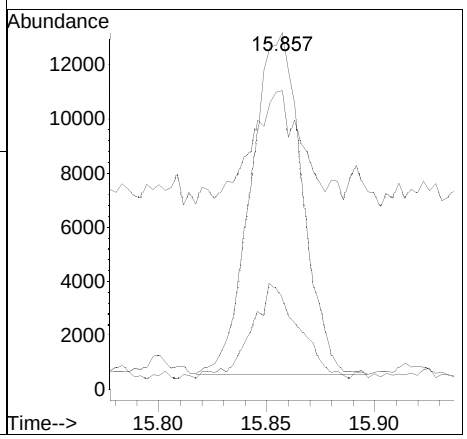


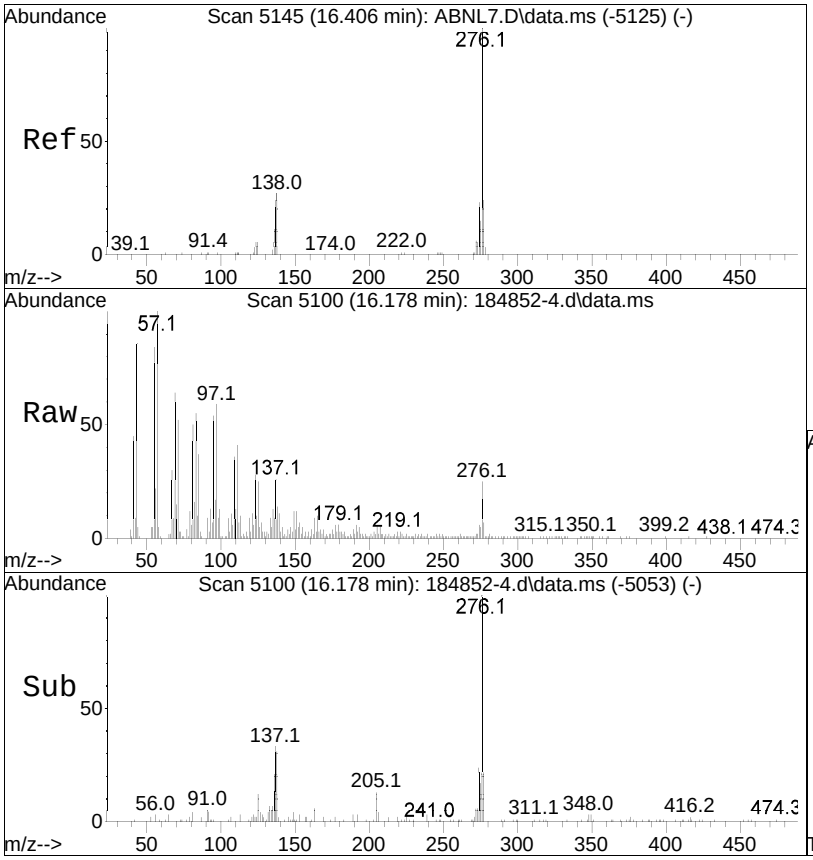


#114
Dibenzo(a,h)anthracene
Concen: 4.64 ug/ml
RT: 15.857 min Scan# 4987
Delta R.T. 0.011 min
Lab File: 184852-4.d
Acq: 9 Dec 2018 10:11 pm

Tgt Ion:278 Resp: 20622

Ion	Ratio	Lower	Upper
278	100		
139	27.8	17.1	25.7#
279	26.6	19.3	28.9

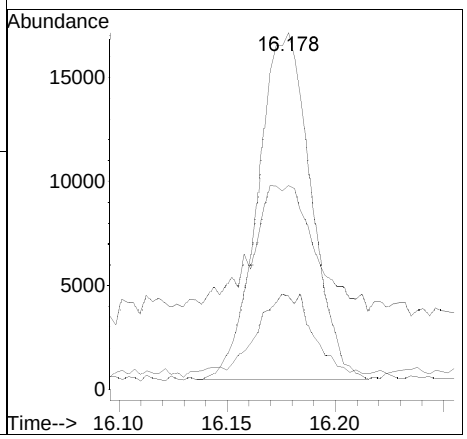




#115
Benzo(ghi)perylene
Concen: 6.15 ug/ml
RT: 16.178 min Scan# 5100
Delta R.T. 0.009 min
Lab File: 184852-4.d
Acq: 9 Dec 2018 10:11 pm

Tgt Ion:276 Resp: 28336

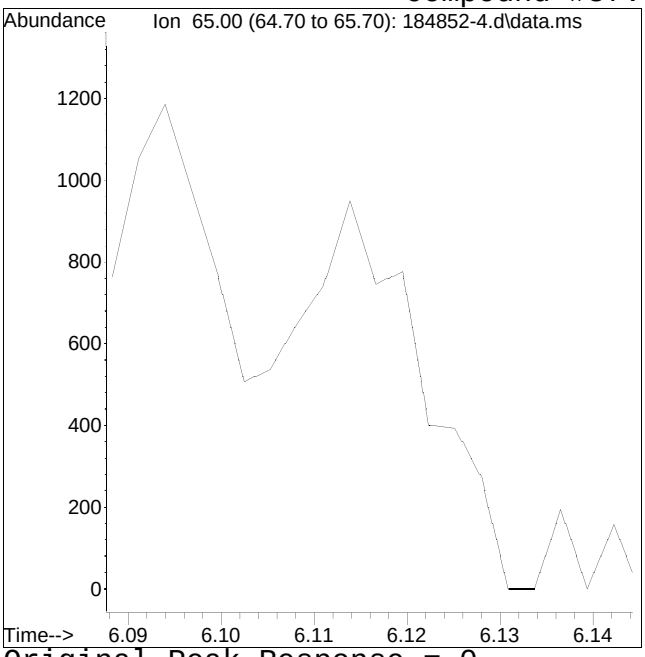
Ion	Ratio	Lower	Upper
276	100		
138	43.7	23.0	34.4#
277	27.3	18.6	28.0



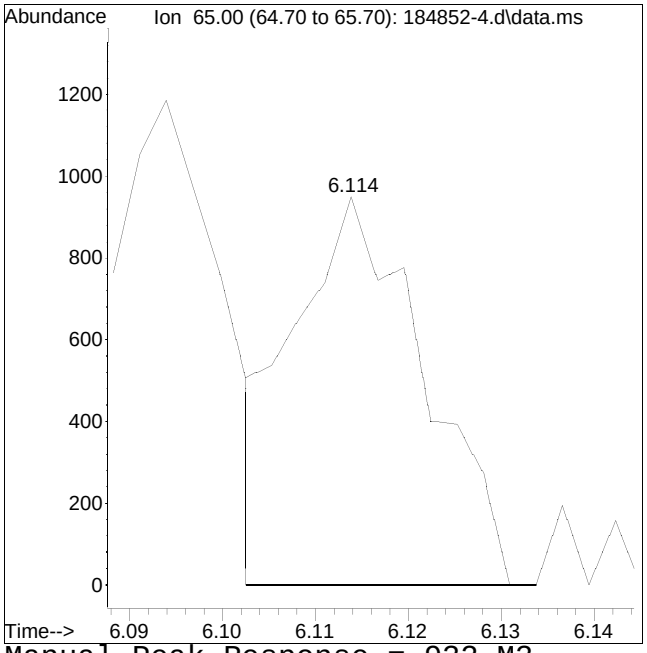
Manual Integration Report

Data Path : I:\8270\SV103\181209\ QMethod : FS181204nSV103.m
Data File : 184852-4.d Operator : SV103:rc
Date Inj'd : 12/9/2018 10:11 pm Instrument : SV103
Sample : wg1184852-4d,32,5,ny,rv,kr Quant Date : 12/10/2018 8:33 am

Compound #37: 4-Chloroaniline



Original Peak Response = 0



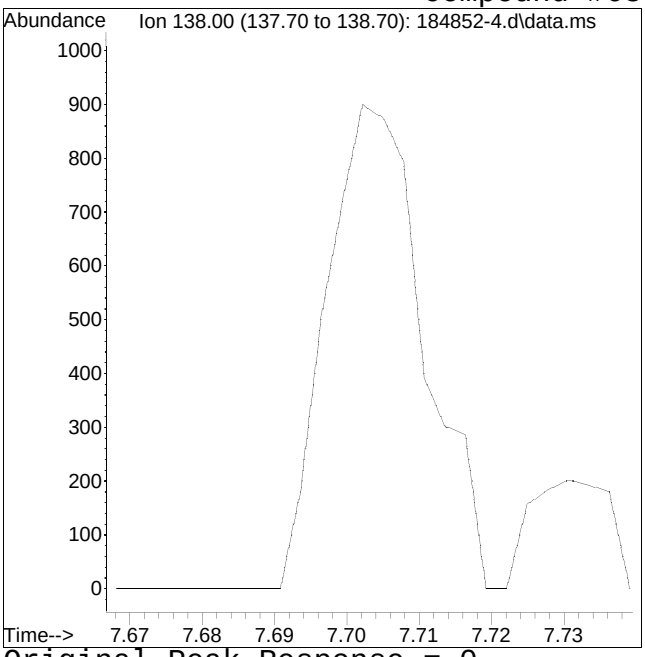
Manual Peak Response = 932 M3

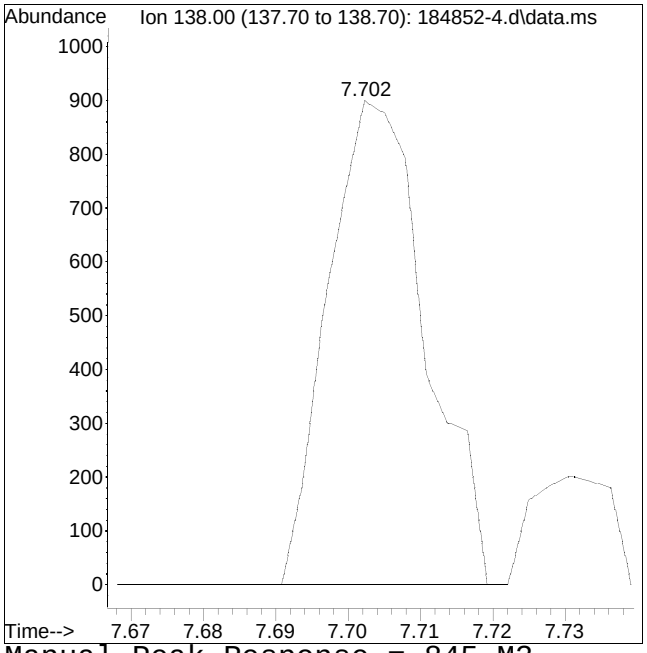
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\8270\SV103\181209\ QMethod : FS181204nSV103.m
Data File : 184852-4.d Operator : SV103:rc
Date Inj'd : 12/9/2018 10:11 pm Instrument : SV103
Sample : wg1184852-4d,32,5,ny,rv,kr Quant Date : 12/10/2018 8:33 am

Compound #63: 3-Nitroaniline





Original Peak Response = 0 Manual Peak Response = 845 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181209\
Data File : 184852-5.d
Acq On : 9 Dec 2018 10:37 pm
Operator : SV103:rc
Sample : wg1184852-5d,32,5,ny,rv,kr
Misc : wg1187317,wg1184852,ical15305
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 10 08:44:22 2018
Quant Method : I:\8270\SV103\181209\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 10 08:06:53 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\181209\ABN1209.d
: 2 - I:\8270\SV103\181209\ADP1209.d
: 3 - I:\8270\SV103\181209\AP91209.d
Sub List : 8270TCL_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) IS1_1,4-Dichlorobenzen...	4.776	152	60192	40.000	ug/ml	0.00
Standard Area 1 = 67385			Recovery = 89.33%			
27) IS2_1,4-Dichlorobenzen...	4.776	152	60192	40.000	ug/ml	0.00
Standard Area 3 = 68471			Recovery = 87.91%			
34) IS1_Naphthalene-d8	6.020	136	257309	40.000	ug/ml	0.00
Standard Area 1 = 288220			Recovery = 89.28%			
54) IS2_Naphthalene-d8	6.020	136	257309	40.000	ug/ml	0.00
Standard Area 3 = 296762			Recovery = 86.71%			
62) IS1_Acenaphthene-d10	7.731	164	112629	40.000	ug/ml	0.00
Standard Area 1 = 144644			Recovery = 77.87%			
82) IS2_Acenaphthene-d10	7.731	164	112629	40.000	ug/ml	0.00
Standard Area 3 = 152009			Recovery = 74.09%			
85) IS3_Acenaphthene-d10	7.731	164	112629	40.000	ug/ml	0.00
Standard Area 2 = 132109			Recovery = 85.25%			
87) IS1_Phenanthrene-d10	9.168	188	199013	40.000	ug/ml	0.00
Standard Area 1 = 243640			Recovery = 81.68%			
99) IS3_Phenanthrene-d10	9.168	188	199013	40.000	ug/ml	0.00
Standard Area 2 = 225714			Recovery = 88.17%			
103) IS1_Chrysene-d12	12.038	240	160616	40.000	ug/ml	# 0.00
Standard Area 1 = 211435			Recovery = 75.96%			
112) IS1_Perylene-d12	14.192	264	166022	40.000	ug/ml	0.01
Standard Area 1 = 215613			Recovery = 77.00%			
System Monitoring Compounds						
4) 2-Fluorophenol	3.508	112	13644	6.828	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 13.66%#			
7) Phenol-d6	4.469	99	16948	6.749	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 13.50%#			
19) Nitrobenzene-d5	5.324	82	5073	2.184	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 8.74%#			
45) 2-Fluorobiphenyl	7.091	172	14781	3.686	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 14.74%#			
78) 2,4,6-Tribromophenol	8.498	330	3613	7.735	ug/ml	0.00
Spiked Amount 50.000	Range 15 - 110		Recovery = 15.47%			
95) 4-Terphenyl-d14	10.774	244	12377	3.194	ug/ml	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 12.78%#			

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181209\
Data File : 184852-5.d
Acq On : 9 Dec 2018 10:37 pm
Operator : SV103:rc
Sample : wg1184852-5d,32,5,ny,rv,kr
Misc : wg1187317,wg1184852,ical15305
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 10 08:44:22 2018
Quant Method : I:\8270\SV103\181209\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 10 08:06:53 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\181209\ABN1209.d
: 2 - I:\8270\SV103\181209\ADP1209.d
: 3 - I:\8270\SV103\181209\AP91209.d
Sub List : 8270TCL_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Target Compounds						Qvalue
6) 2-Chlorophenol	4.574	128	12897	5.835	ug/ml#	87
8) Phenol	4.483	94	16254	5.502	ug/ml#	85
9) Bis(2-chloroethyl)ether	4.537	93	11325	5.382	ug/ml	85
14) Bis(2-chloroisopropyl)...	5.071	45	18514	4.292	ug/ml#	94
15) 2-Methylphenol	5.068	108	11656	5.915	ug/ml	97
16) Hexachloroethane	5.267	117	3171	3.456	ug/ml	92
17) n-Nitrosodi-n-propylamine	5.196	70	8228	5.265	ug/ml#	82
18) 3-Methylphenol/4-Methy...	5.224	108	46160	22.456	ug/ml	94
20) Nitrobenzene	5.341	77	8750	3.724	ug/ml	89
21) Isophorone	5.583	82	21538	5.399	ug/ml	95
22) 2-Nitrophenol	5.656	139	2172	1.906	ug/ml#	1
23) 2,4-Dimethylphenol	5.736	107	12080	6.076	ug/ml	87
24) Bis(2-chloroethoxy)met...	5.818	93	14240	5.568	ug/ml	97
25) 2,4-Dichlorophenol	5.904	162	9653	5.922	ug/ml	96
28) Benzaldehyde	4.344	105	13420	7.648	ug/ml#	63
29) Acetophenone	5.182	105	19209	6.759	ug/ml	94
35) Naphthalene	6.037	128	40299	6.374	ug/ml	99
37) 4-Chloroaniline	6.111	65	1692	2.126	ug/ml#	66
38) Hexachlorobutadiene	6.185	225	4745	5.884	ug/ml	97
39) p-Chloro-m-cresol	6.620	107	10109	5.833	ug/ml	92
40) 2-Methylnaphthalene	6.719	142	25593	6.128	ug/ml	93
42) Hexachlorocyclopentadiene	0.000		0	N.D.		
43) 2,4,6-Trichlorophenol	7.012	196	6403	6.005	ug/ml	95
44) 2,4,5-Trichlorophenol	7.046	196	6312	5.625	ug/ml	98
46) 2-Chloronaphthalene	7.191	162	21193	5.864	ug/ml	98
47) 2-Nitroaniline	7.304	138	6877	5.318	ug/ml#	83
50) Dimethyl phthalate	7.500	163	29464	7.205	ug/ml#	97
51) Acenaphthylene	7.589	152	35589	5.975	ug/ml	98
52) 2,6-Dinitrotoluene	7.546	165	2829	3.148	ug/ml	90
59) Caprolactam	6.426	55	5401	4.943	ug/ml	95
60) 1,2,4,5-Tetrachloroben...	6.890	216	8885	6.353	ug/ml	98
61) Biphenyl	7.182	154	27446	6.074	ug/ml	97
63) 3-Nitroaniline	7.705	138	2833	2.621	ug/ml#	75
64) Acenaphthene	7.759	154	20666	6.091	ug/ml	97
65) 2,4-Dinitrophenol	0.000		0	N.D.		
66) Dibenzofuran	7.930	168	30003	6.069	ug/ml	91

Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181209\
Data File : 184852-5.d
Acq On : 9 Dec 2018 10:37 pm
Operator : SV103:rc
Sample : wg1184852-5d,32,5,ny,rv,kr
Misc : wg1187317,wg1184852,ical15305
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 10 08:44:22 2018
Quant Method : I:\8270\SV103\181209\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 10 08:06:53 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\8270\SV103\181209\ABN1209.d
: 2 - I:\8270\SV103\181209\ADP1209.d
: 3 - I:\8270\SV103\181209\AP91209.d
Sub List : 8270TCL_REV1 - TCL/CT/MA

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
67) 2,4-Dinitrotoluene	7.935	165	3240	2.813	ug/ml#	84
68) 4-Nitrophenol	7.910	65	2103	2.236	ug/ml	94
70) 2,3,4,6-Tetrachlorophenol	8.066	232	4777	5.535	ug/ml	98
71) Diethyl phthalate	8.191	149	25063	5.937	ug/ml	99
72) Fluorene	8.262	166	24418	6.143	ug/ml	99
73) 4-Chlorophenyl phenyl ...	8.279	204	10406	6.058	ug/ml	88
74) 4-Nitroaniline	8.293	138	5306	4.976	ug/ml#	80
75) 4,6-Dinitro-o-cresol	0.000		0	N.D.		
76) NDPA/DPA	8.396	169	20845	6.210	ug/ml	99
79) 4-Bromophenyl phenyl e...	8.751	248	5625	6.087	ug/ml	89
80) Hexachlorobenzene	8.802	284	5921	5.923	ug/ml	96
81) Pentachlorophenol	9.001	266	3140	4.961	ug/ml	96
86) Atrazine	8.938	200	5628	6.450	ug/ml	95
88) Phenanthrene	9.191	178	49437	9.009	ug/ml	99
89) Anthracene	9.239	178	35893	6.575	ug/ml	97
90) Carbazole	9.410	167	33330	6.586	ug/ml	98
91) Di-n-butylphthalate	9.791	149	46425	7.167	ug/ml	99
92) Fluoranthene	10.350	202	67937	12.643	ug/ml	97
94) Pyrene	10.575	202	63263	11.355	ug/ml	97
96) Butyl benzyl phthalate	11.373	149	25387	8.846	ug/ml	98
104) Benzo(a)anthracene	12.024	228	40349	8.537	ug/ml#	95
105) 3,3'-Dichlorobenzidine	12.027	252	2266	1.318	ug/ml#	74
106) Chrysene	12.072	228	44871	10.053	ug/ml	98
107) Bis(2-ethylhexyl)phtha...	12.200	149	324035	86.818	ug/ml	100
108) Di-n-octylphthalate	13.189	149	59725	9.249	ug/ml#	59
109) Benzo(b)fluoranthene	13.607	252	48499	11.209	ug/ml#	87
110) Benzo(k)fluoranthene	13.647	252	33614	7.736	ug/ml#	88
111) Benzo(a)pyrene	14.098	252	35480	8.458	ug/ml#	86
113) Indeno(1,2,3-cd)pyrene	15.803	276	33650	8.084	ug/mL#	86
114) Dibenzo(a,h)anthracene	15.854	278	25327	5.956	ug/ml#	86
115) Benzo(ghi)perylene	16.181	276	34428	7.801	ug/ml#	90

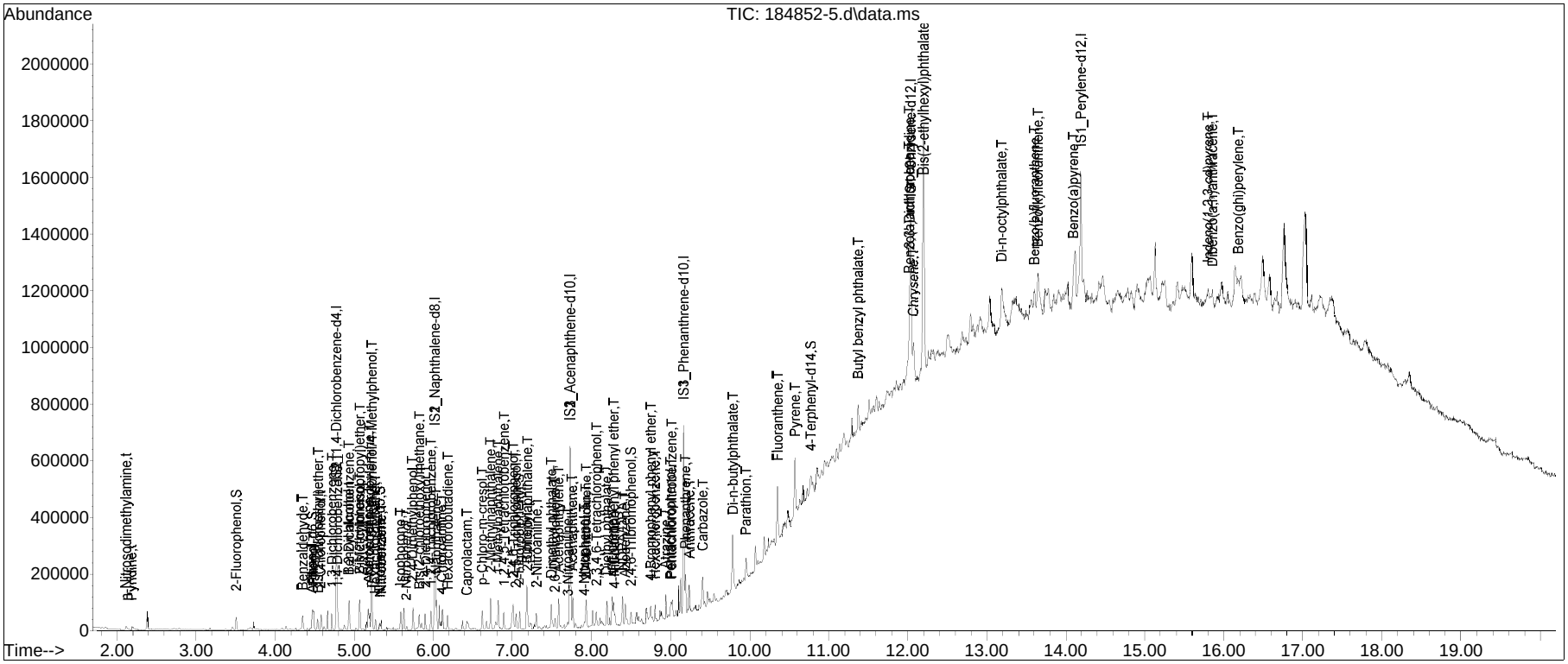
(#) = qualifier out of range (m) = manual integration (+) = signals summed

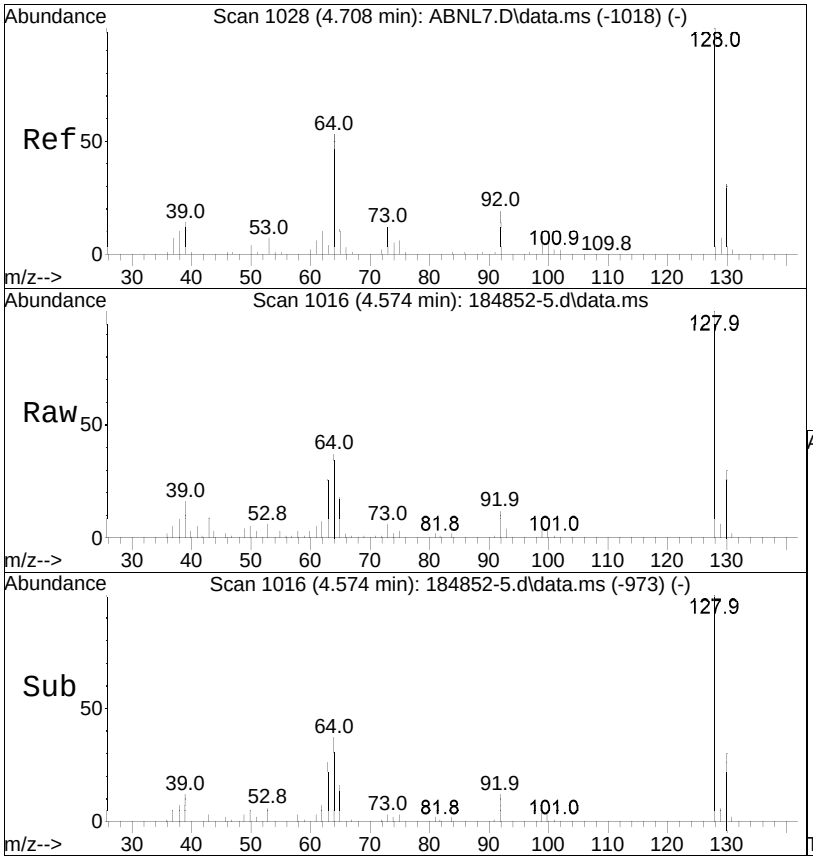
Quantitation Report (QT Reviewed)

Data Path : I:\8270\SV103\181209\
Data File : 184852-5.d
Acq On : 9 Dec 2018 10:37 pm
Operator : SV103:rc
Sample : wg1184852-5d,32,5,ny,rv,kr
Misc : wg1187317,wg1184852,ical15305
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 10 08:44:22 2018
Quant Method : I:\8270\SV103\181209\FS181204nSV103.m
Quant Title : Semivolatiles by GC/MS by modified 8270
QLast Update : Mon Dec 10 08:06:53 2018
Response via : Initial Calibration

Sub List : 8270TCL_REV1 - TCL/CT/MA\AP91209.d•

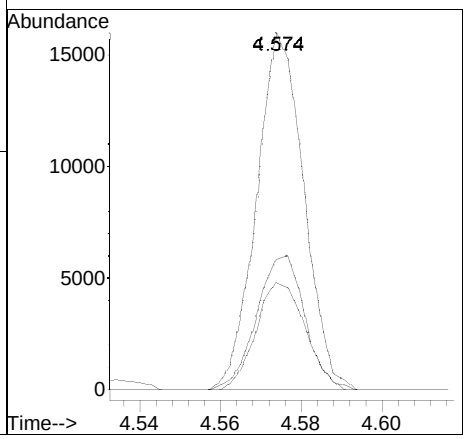


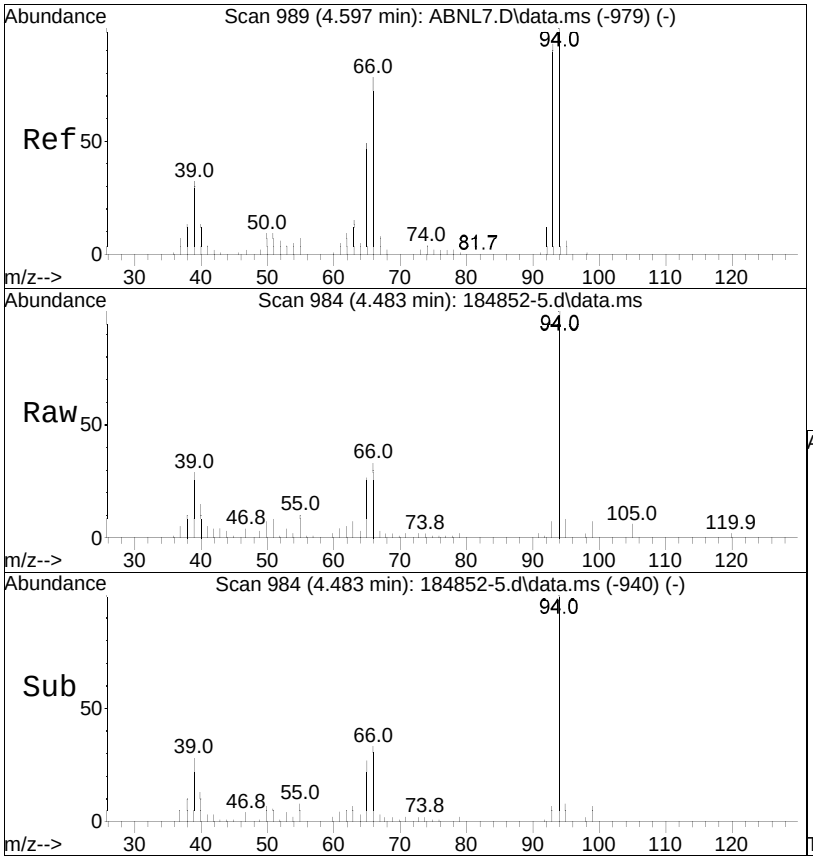


#6
2-Chlorophenol
Concen: 5.84 ug/ml
RT: 4.574 min Scan# 1016
Delta R.T. -0.003 min
Lab File: 184852-5.d
Acq: 9 Dec 2018 10:37 pm

Tgt Ion:128 Resp: 12897

Ion	Ratio	Lower	Upper
128	100		
64	38.6	42.7	64.1#
130	31.5	25.8	38.6

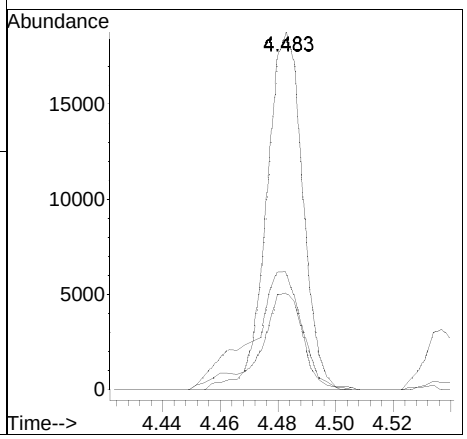


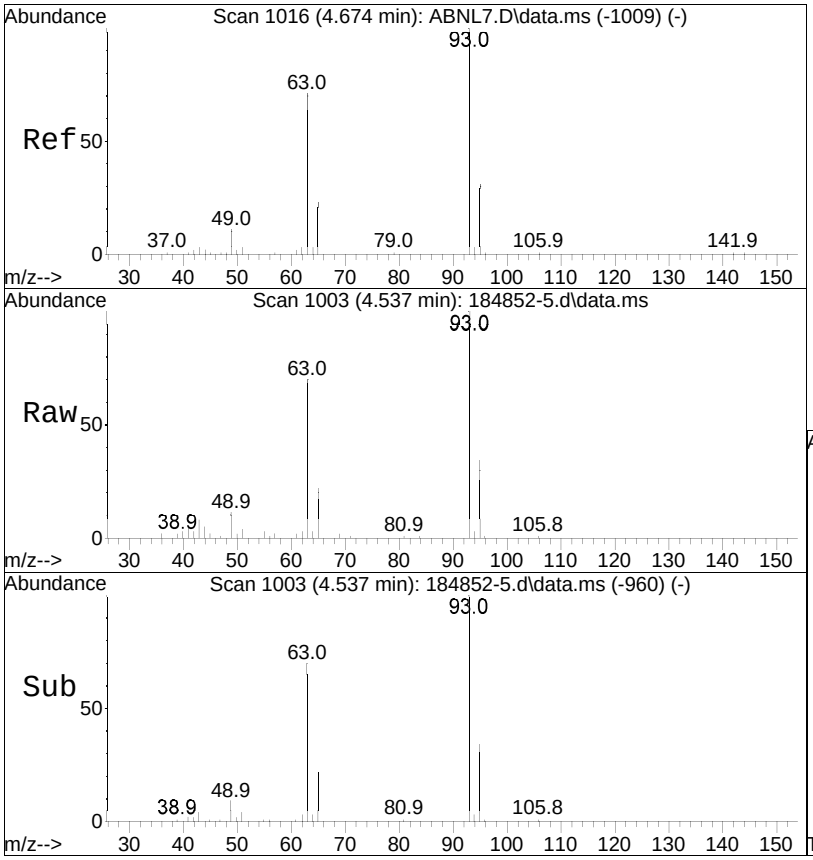


#8
Phenol
Concen: 5.50 ug/ml
RT: 4.483 min Scan# 984
Delta R.T. 0.000 min
Lab File: 184852-5.d
Acq: 9 Dec 2018 10:37 pm

Tgt Ion: 94 Resp: 16254

Ion	Ratio	Lower	Upper
94	100		
65	33.2	20.5	30.7#
66	46.9	0.0	0.0#

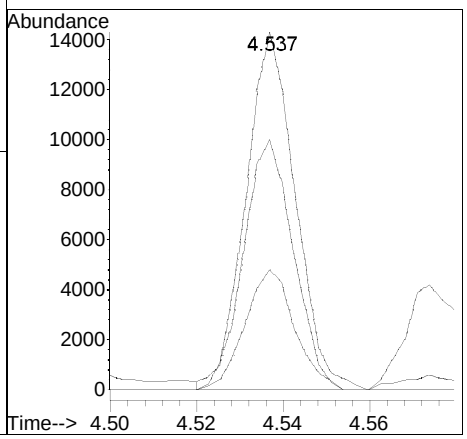


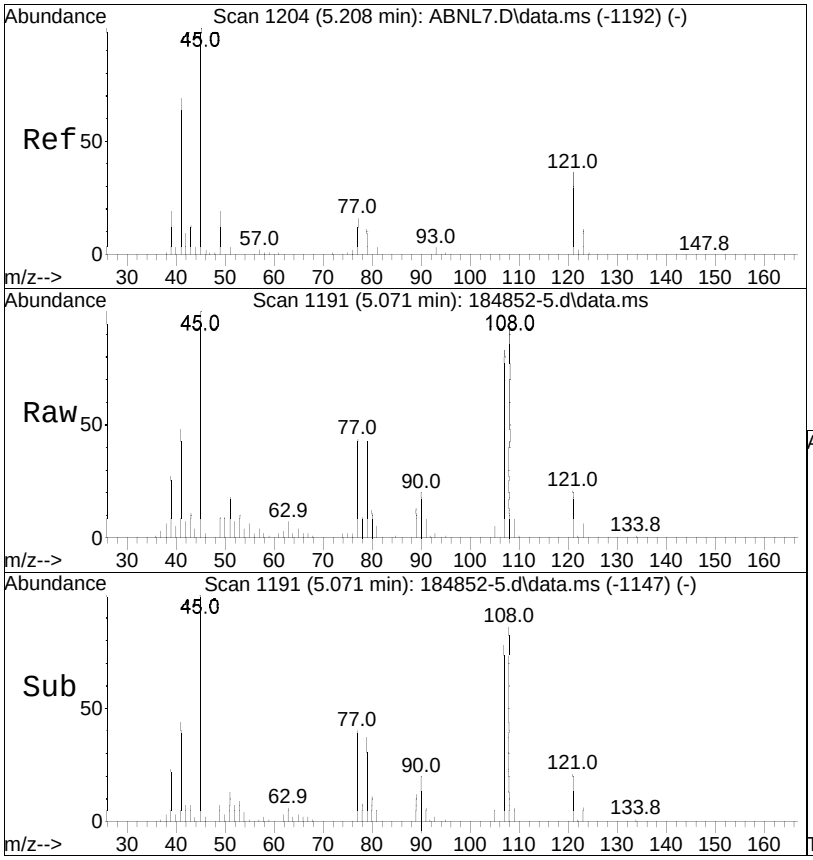


#9
Bis(2-chloroethyl)ether
Concen: 5.38 ug/ml
RT: 4.537 min Scan# 1003
Delta R.T. -0.003 min
Lab File: 184852-5.d
Acq: 9 Dec 2018 10:37 pm

Tgt Ion: 93 Resp: 11325

Ion	Ratio	Lower	Upper
93	100		
63	70.4	70.4	105.6
95	33.8	25.8	38.6

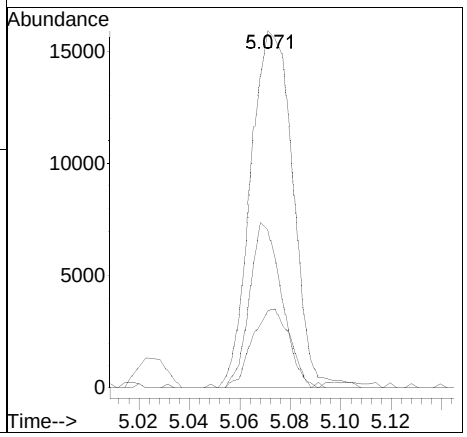


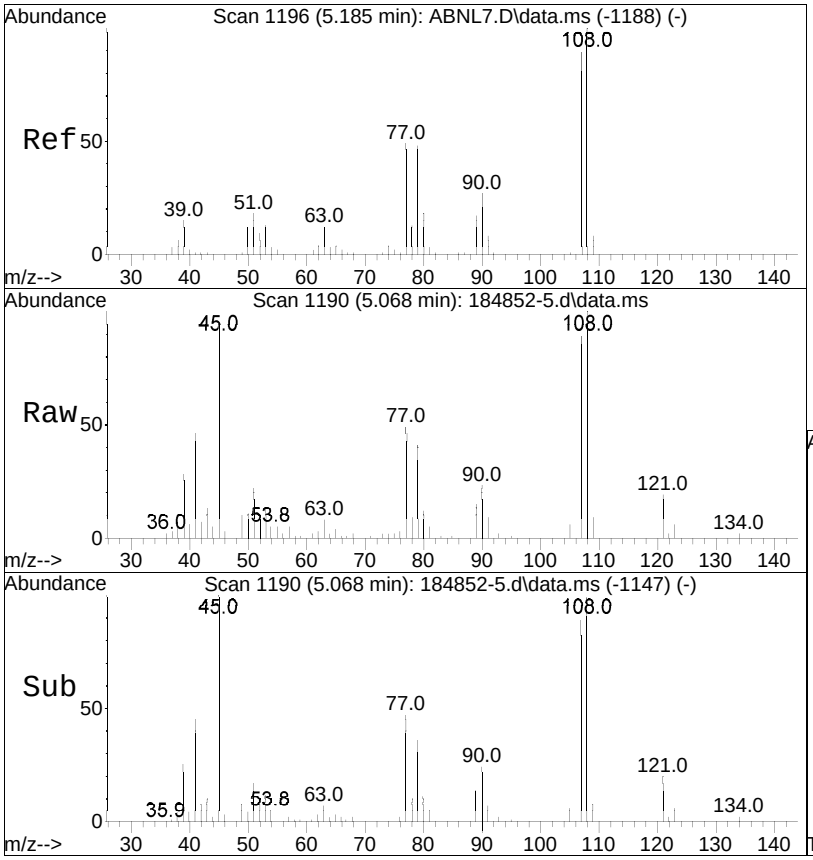


#14
Bis(2-chloroisopropyl)ether
Concen: 4.29 ug/ml
RT: 5.071 min Scan# 1191
Delta R.T. 0.000 min
Lab File: 184852-5.d
Acq: 9 Dec 2018 10:37 pm

Tgt Ion: 45 Resp: 18514

Ion	Ratio	Lower	Upper
45	100		
121	19.9	12.6	19.0#
77	35.2	26.4	39.6

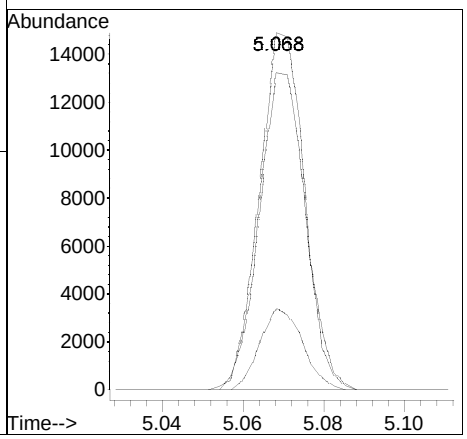


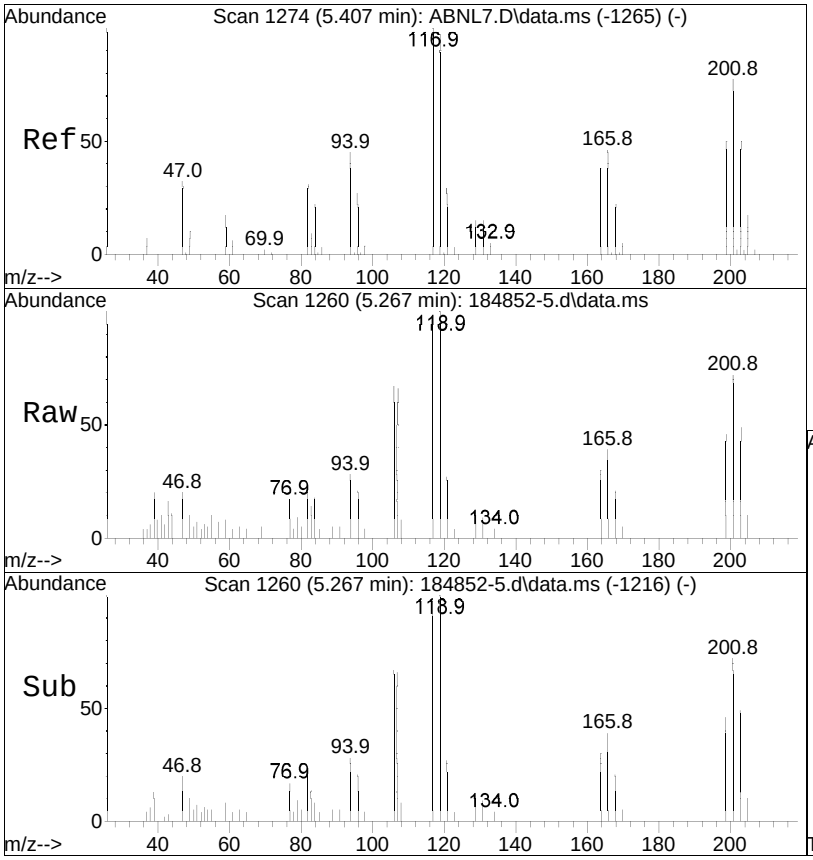


#15
2-Methylphenol
Concen: 5.91 ug/ml
RT: 5.068 min Scan# 1190
Delta R.T. -0.003 min
Lab File: 184852-5.d
Acq: 9 Dec 2018 10:37 pm

Tgt Ion:108 Resp: 11656

Ion	Ratio	Lower	Upper
108	100		
107	88.9	72.8	109.2
90	21.5	20.2	30.4

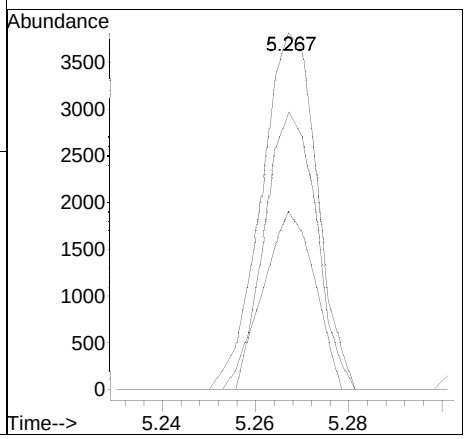


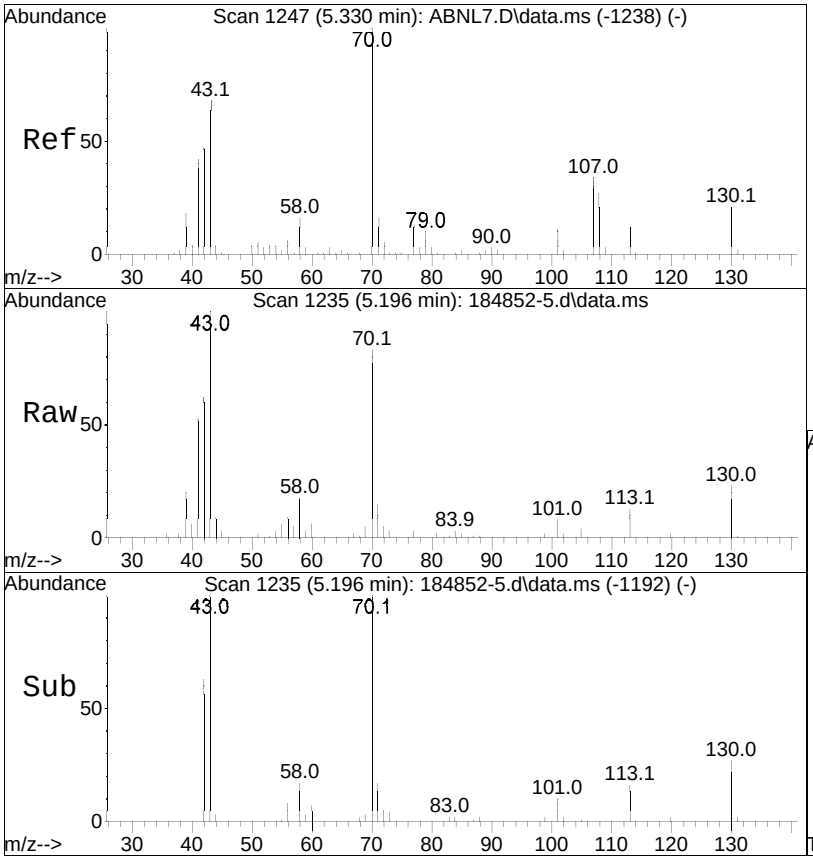


#16
Hexachloroethane
Concen: 3.46 ug/ml
RT: 5.267 min Scan# 1260
Delta R.T. 0.000 min
Lab File: 184852-5.d
Acq: 9 Dec 2018 10:37 pm

Tgt Ion:117 Resp: 3171

Ion	Ratio	Lower	Upper
117	100		
201	72.8	64.5	96.7
199	45.6	40.3	60.5

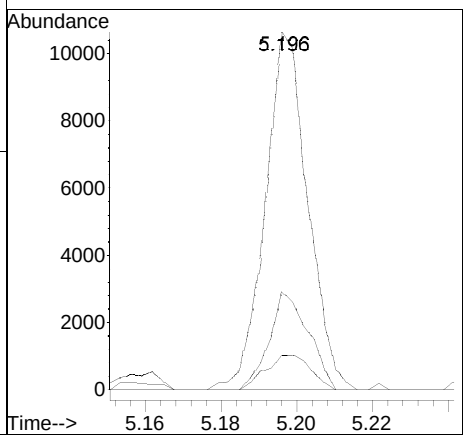


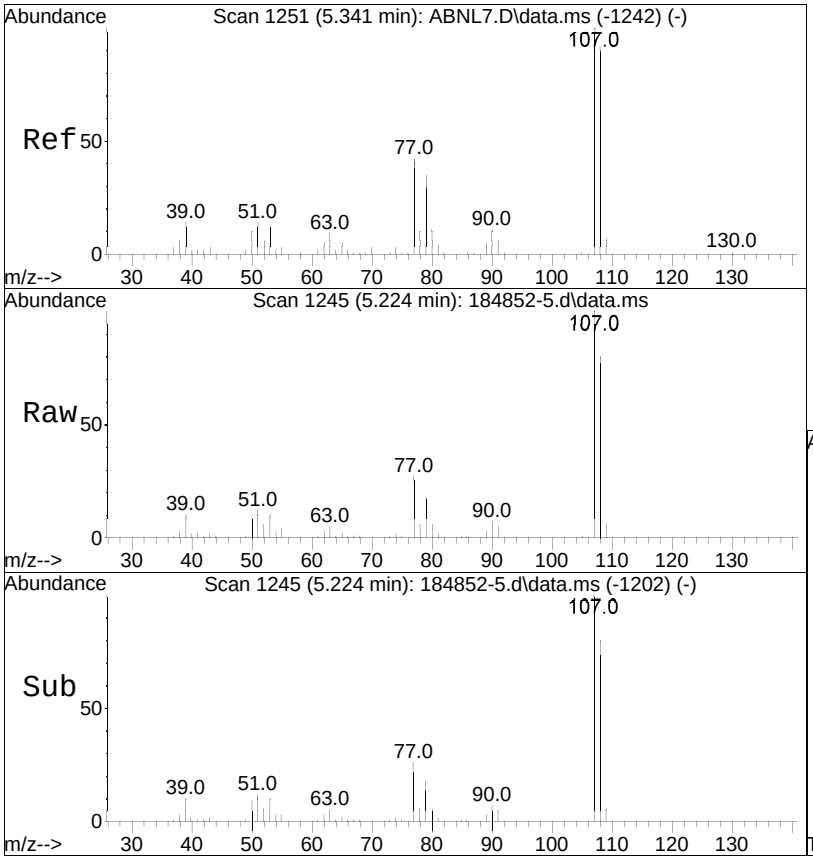


#17
n-Nitrosodi-n-propylamine
Concen: 5.27 ug/ml
RT: 5.196 min Scan# 1235
Delta R.T. -0.003 min
Lab File: 184852-5.d
Acq: 9 Dec 2018 10:37 pm

Tgt Ion: 70 Resp: 8228

Ion	Ratio	Lower	Upper
70	100		
130	25.2	15.0	22.4#
101	0.0	7.4	11.0#

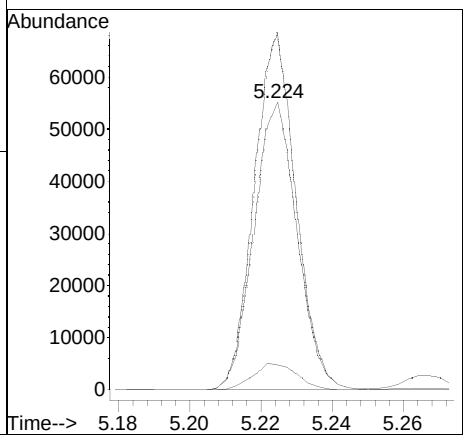


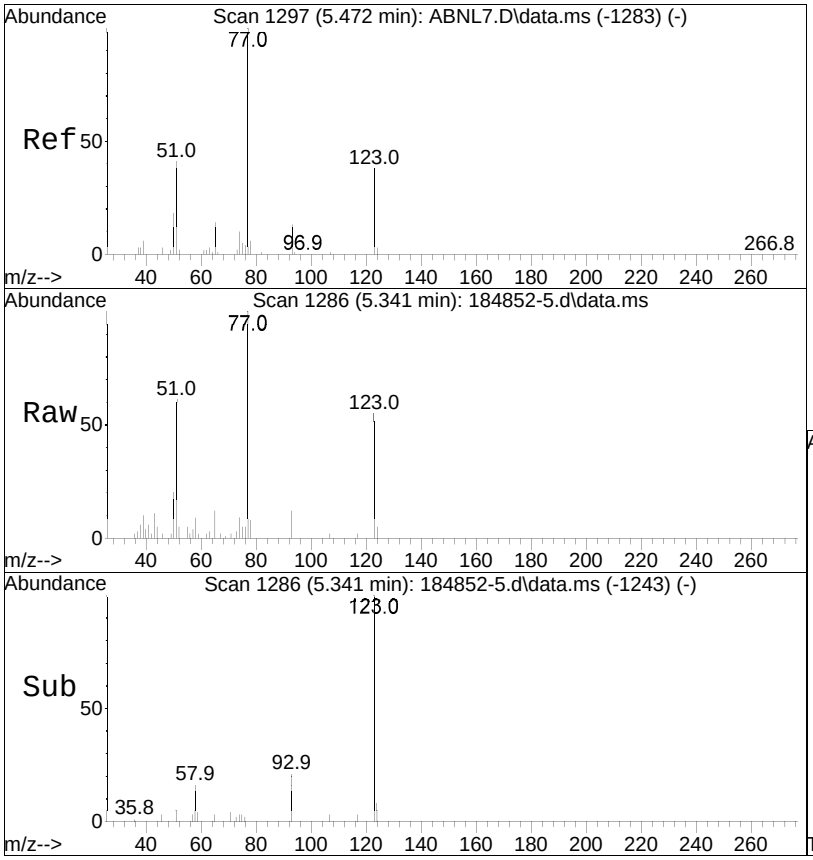


#18
3-Methylphenol/4-Methylphenol
Concen: 22.46 ug/ml
RT: 5.224 min Scan# 1245
Delta R.T. -0.003 min
Lab File: 184852-5.d
Acq: 9 Dec 2018 10:37 pm

Tgt Ion:108 Resp: 46160

Ion	Ratio	Lower	Upper
108	100		
107	119.5	90.4	135.6
90	9.4	9.2	13.8

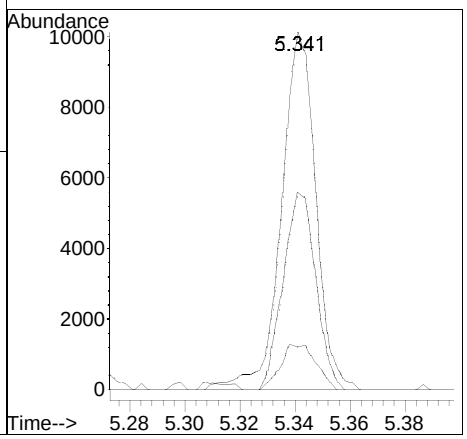


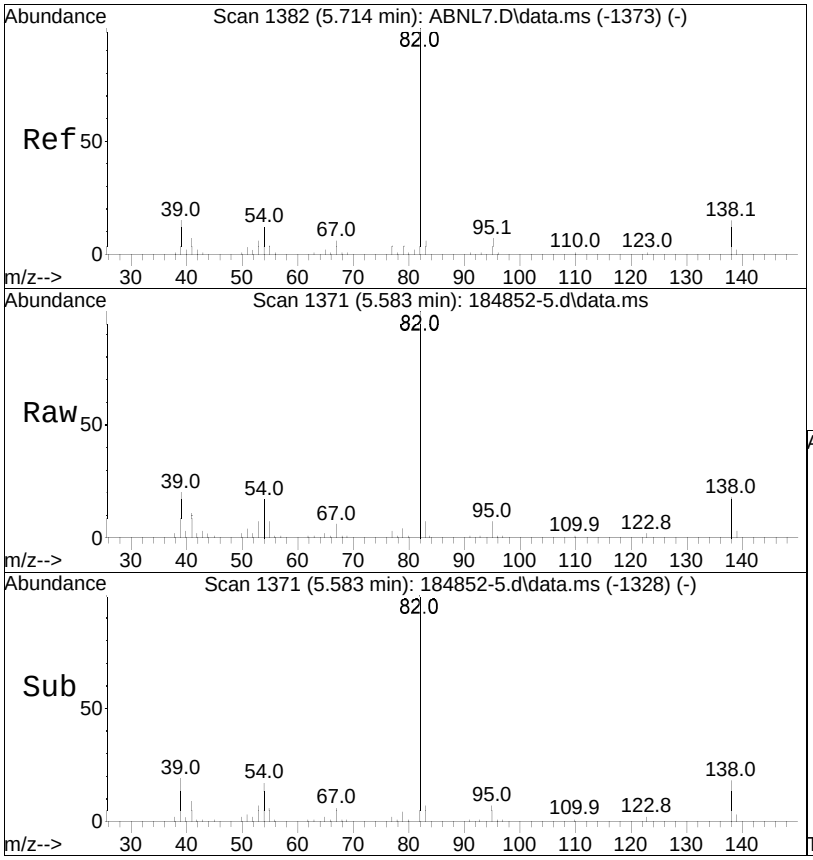


#20
Nitrobenzene
Concen: 3.72 ug/ml
RT: 5.341 min Scan# 1286
Delta R.T. -0.003 min
Lab File: 184852-5.d
Acq: 9 Dec 2018 10:37 pm

Tgt Ion: 77 Resp: 8750

Ion	Ratio	Lower	Upper
77	100		
123	52.1	35.0	52.4
65	13.2	11.5	17.3

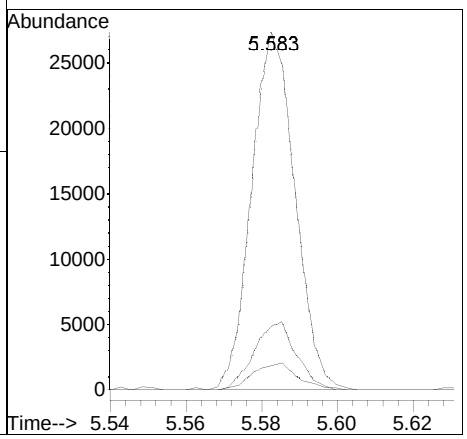


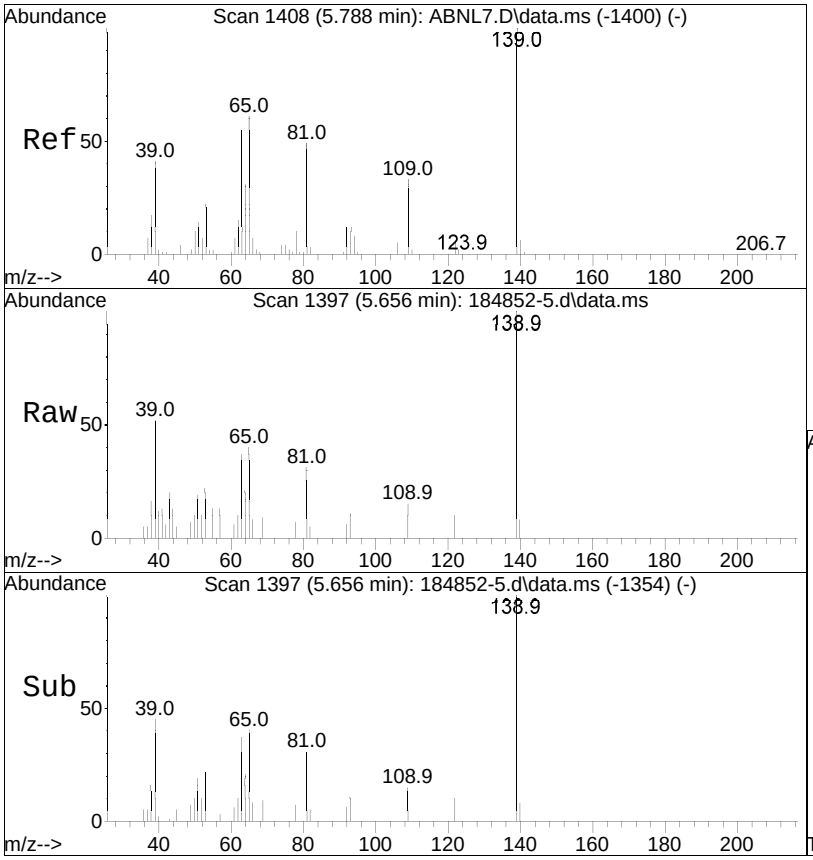


#21
Isophorone
Concen: 5.40 ug/ml
RT: 5.583 min Scan# 1371
Delta R.T. -0.003 min
Lab File: 184852-5.d
Acq: 9 Dec 2018 10:37 pm

Tgt Ion: 82 Resp: 21538

Ion	Ratio	Lower	Upper
82	100		
138	18.5	12.8	19.2
95	7.9	5.5	8.3

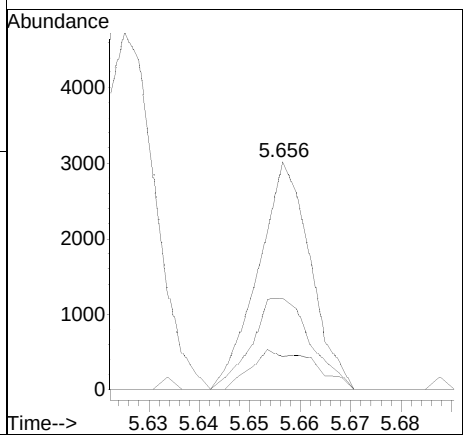


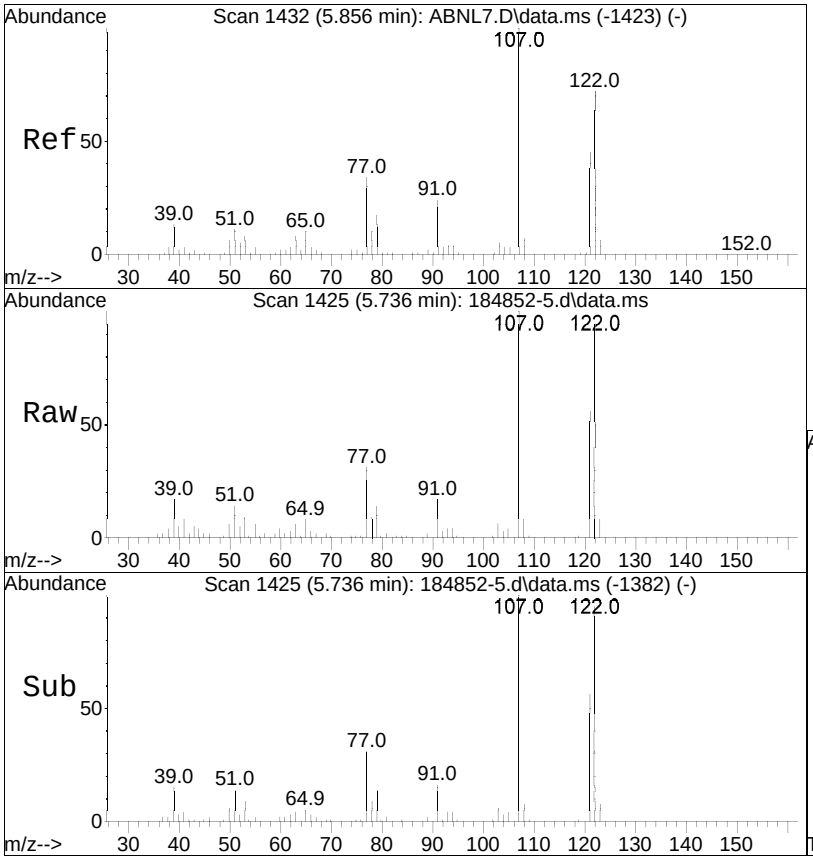


#22
2-Nitrophenol
Concen: 1.91 ug/ml
RT: 5.656 min Scan# 1397
Delta R.T. -0.003 min
Lab File: 184852-5.d
Acq: 9 Dec 2018 10:37 pm

Tgt Ion:139 Resp: 2172

Ion	Ratio	Lower	Upper
139	100		
109	0.0	24.8	37.2#
65	177.0	45.5	68.3#

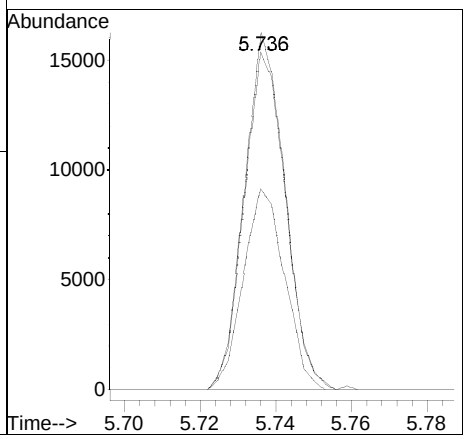


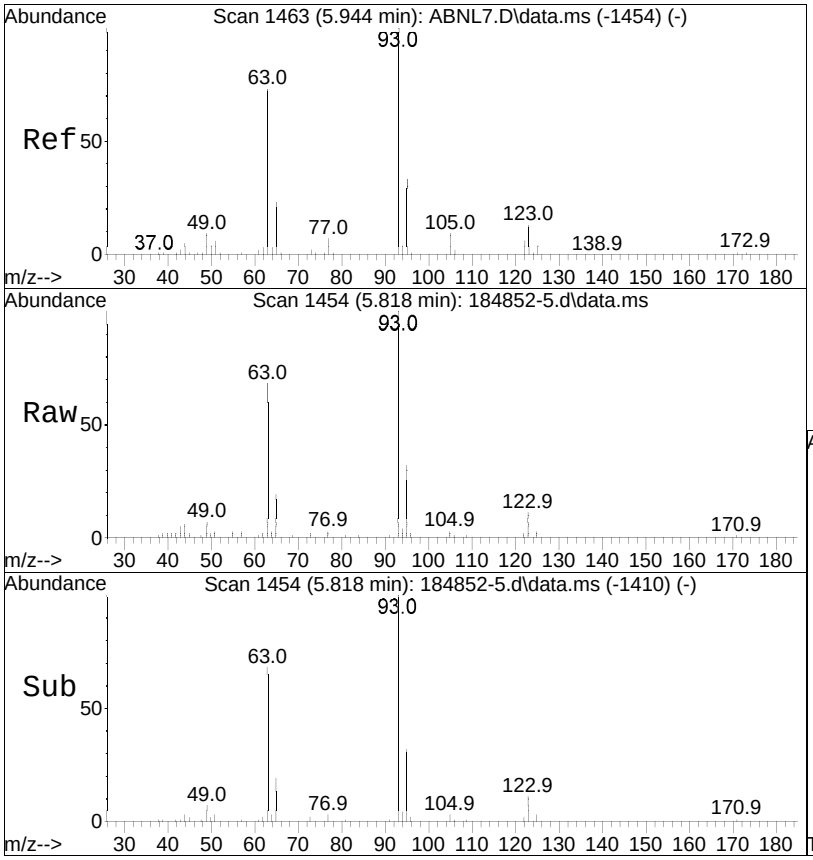


#23
2,4-Dimethylphenol
Concen: 6.08 ug/ml
RT: 5.736 min Scan# 1425
Delta R.T. -0.003 min
Lab File: 184852-5.d
Acq: 9 Dec 2018 10:37 pm

Tgt Ion:107 Resp: 12080

Ion	Ratio	Lower	Upper
107	100		
121	57.5	39.7	59.5
122	96.3	66.8	100.2

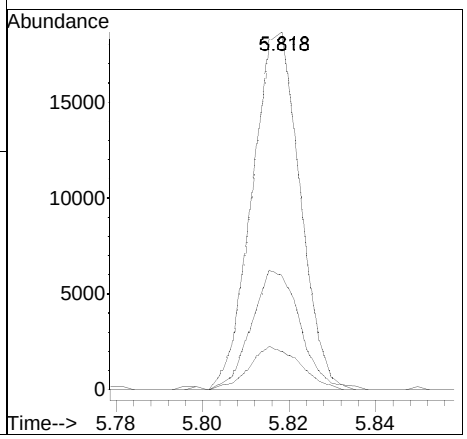


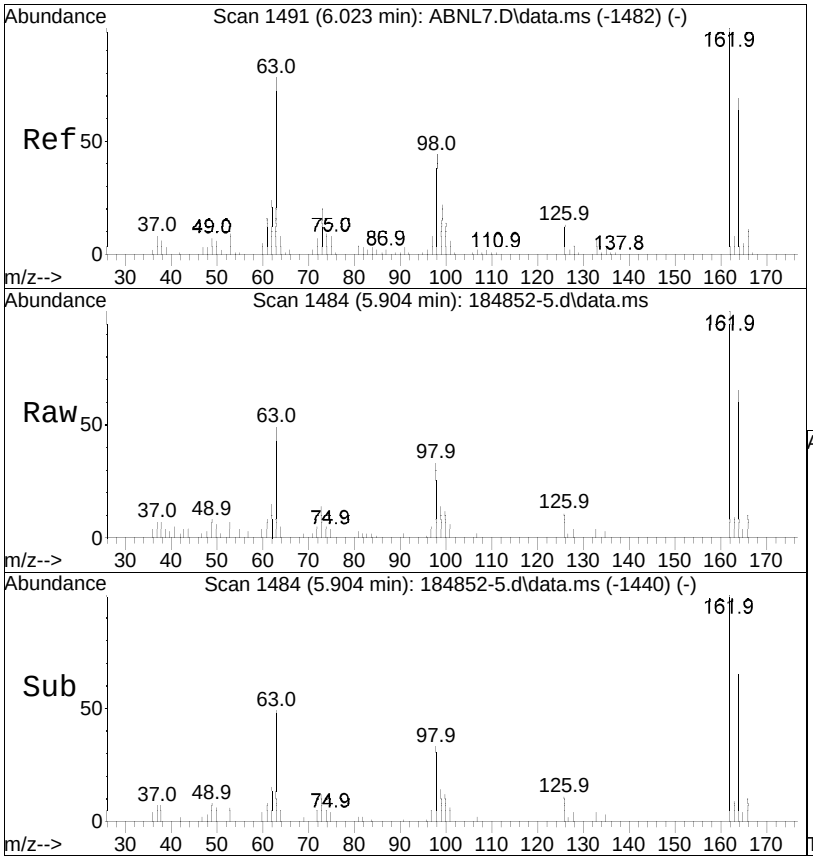


#24
Bis(2-chloroethoxy)methane
Concen: 5.57 ug/ml
RT: 5.818 min Scan# 1454
Delta R.T. 0.000 min
Lab File: 184852-5.d
Acq: 9 Dec 2018 10:37 pm

Tgt Ion: 93 Resp: 14240

Ion	Ratio	Lower	Upper
93	100		
95	34.5	26.1	39.1
123	13.2	9.8	14.8

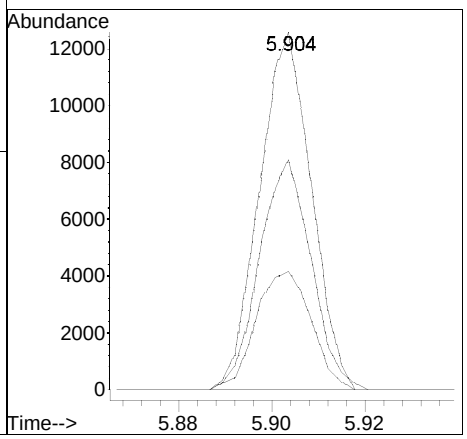


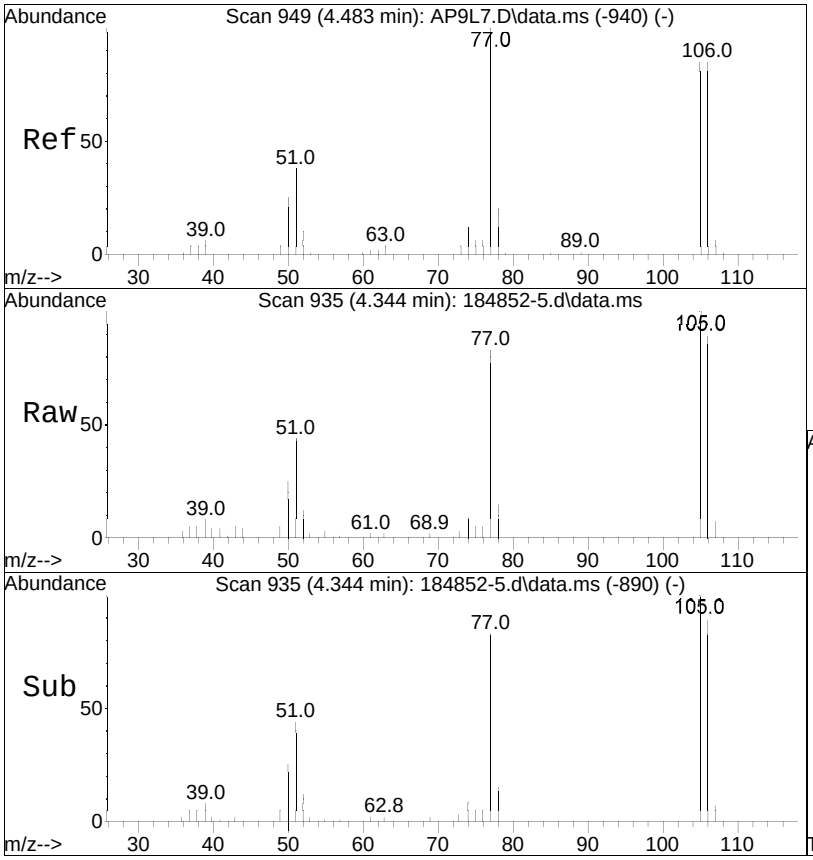


#25
2,4-Dichlorophenol
Concen: 5.92 ug/ml
RT: 5.904 min Scan# 1484
Delta R.T. 0.000 min
Lab File: 184852-5.d
Acq: 9 Dec 2018 10:37 pm

Tgt Ion:162 Resp: 9653

Ion	Ratio	Lower	Upper
162	100		
164	64.2	50.4	75.6
98	35.4	31.6	47.4

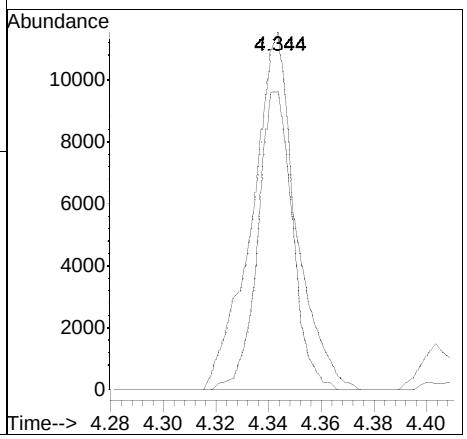


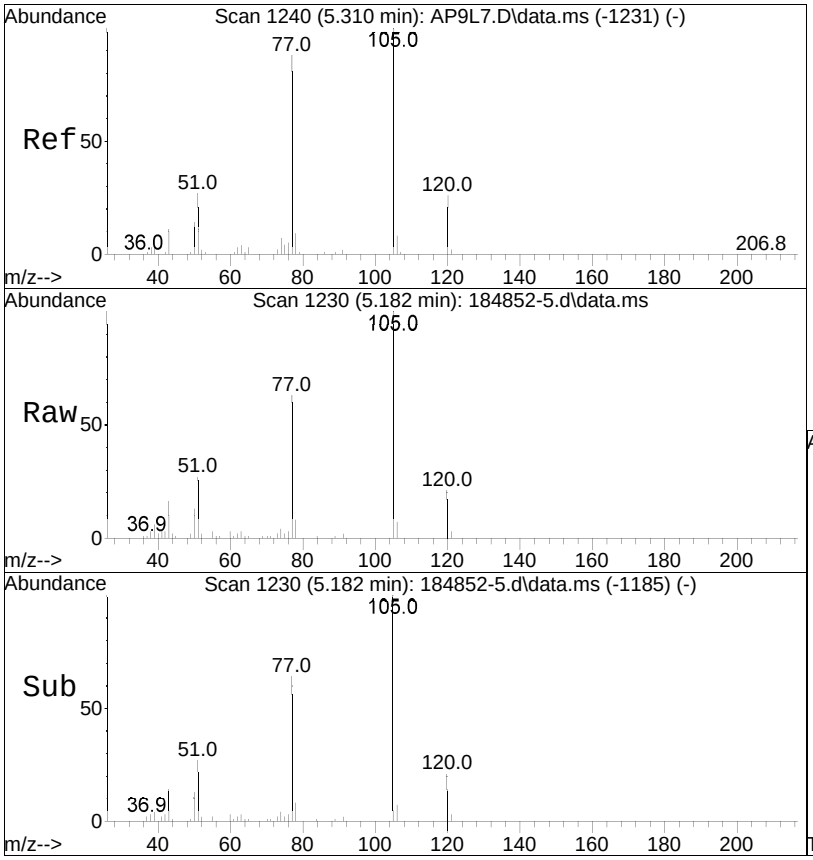


#28
Benzaldehyde
Concen: 7.65 ug/ml
RT: 4.344 min Scan# 935
Delta R.T. 0.003 min
Lab File: 184852-5.d
Acq: 9 Dec 2018 10:37 pm

Tgt Ion:105 Resp: 13420

Ion	Ratio	Lower	Upper
105	100		
77	65.5	82.9	124.3#

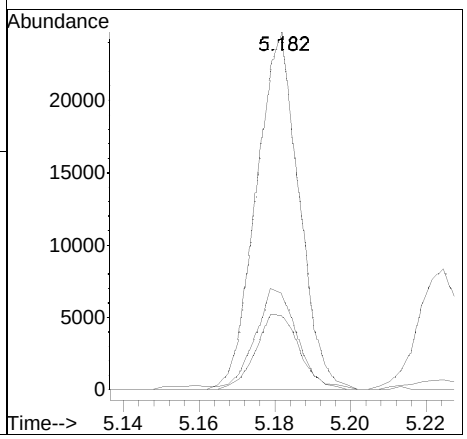


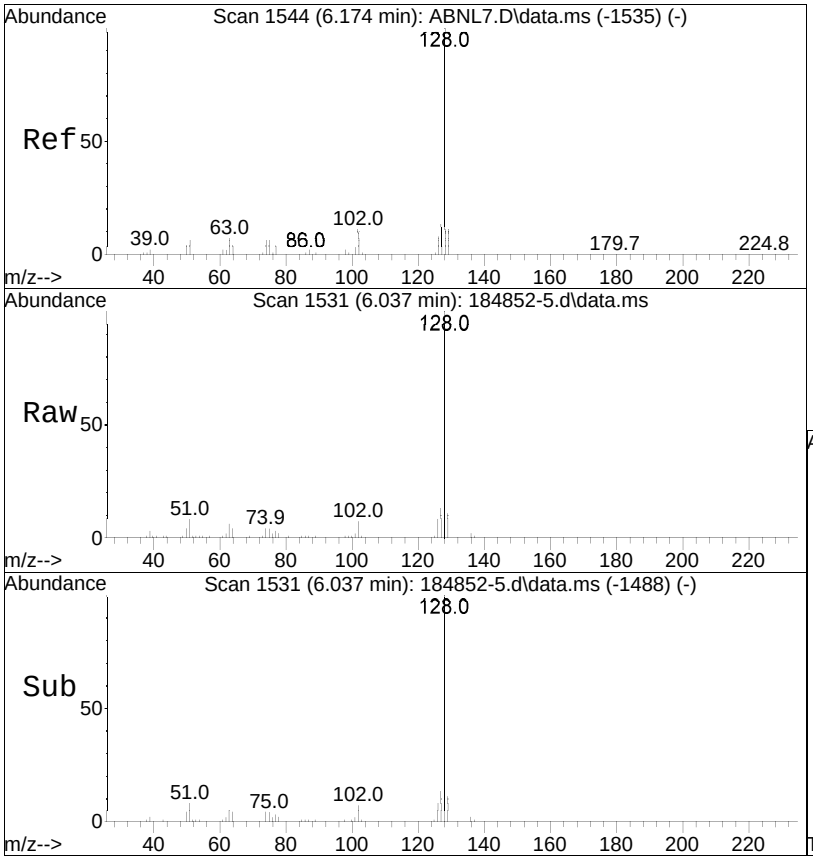


#29
Acetophenone
Concen: 6.76 ug/ml
RT: 5.182 min Scan# 1230
Delta R.T. 0.003 min
Lab File: 184852-5.d
Acq: 9 Dec 2018 10:37 pm

Tgt Ion:105 Resp: 19209

Ion	Ratio	Lower	Upper
105	100		
120	21.6	16.4	24.6
51	28.0	26.5	39.7

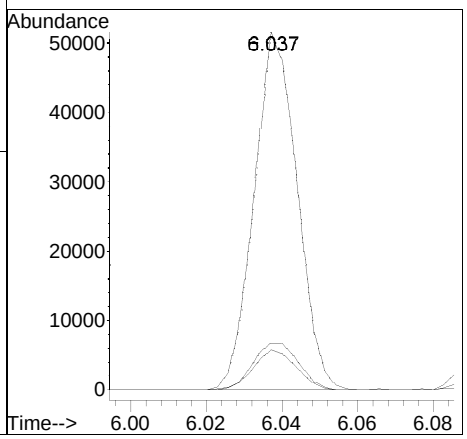


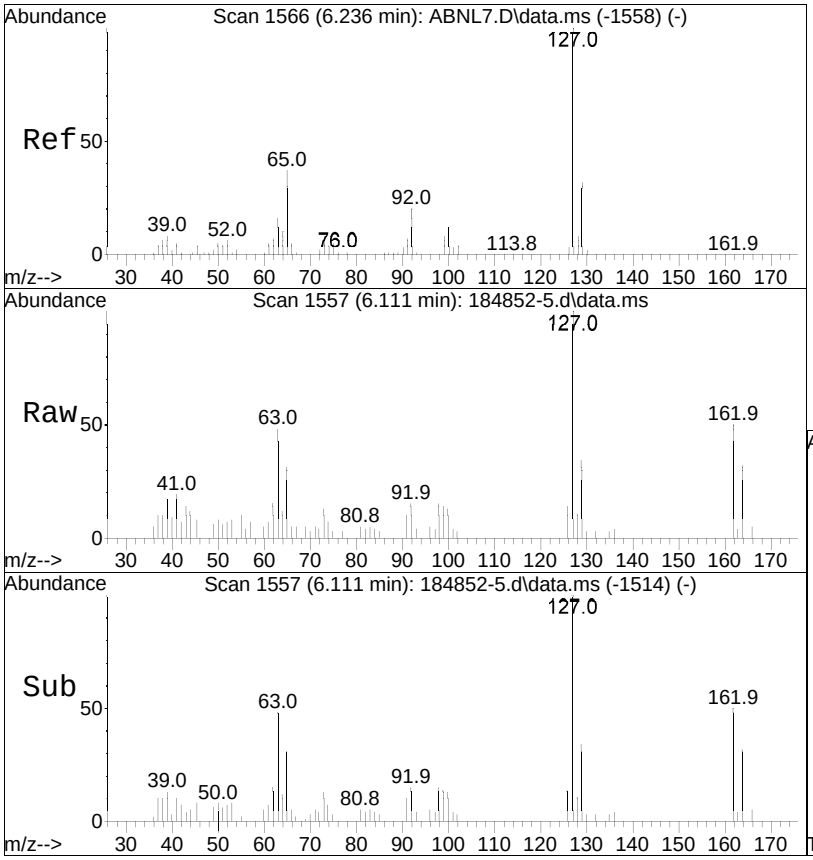


#35
Naphthalene
Concen: 6.37 ug/ml
RT: 6.037 min Scan# 1531
Delta R.T. -0.003 min
Lab File: 184852-5.d
Acq: 9 Dec 2018 10:37 pm

Tgt Ion:128 Resp: 40299

Ion	Ratio	Lower	Upper
128	100		
129	11.3	8.7	13.1
127	14.0	10.7	16.1

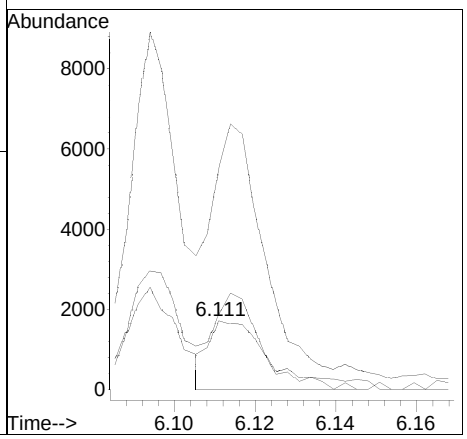


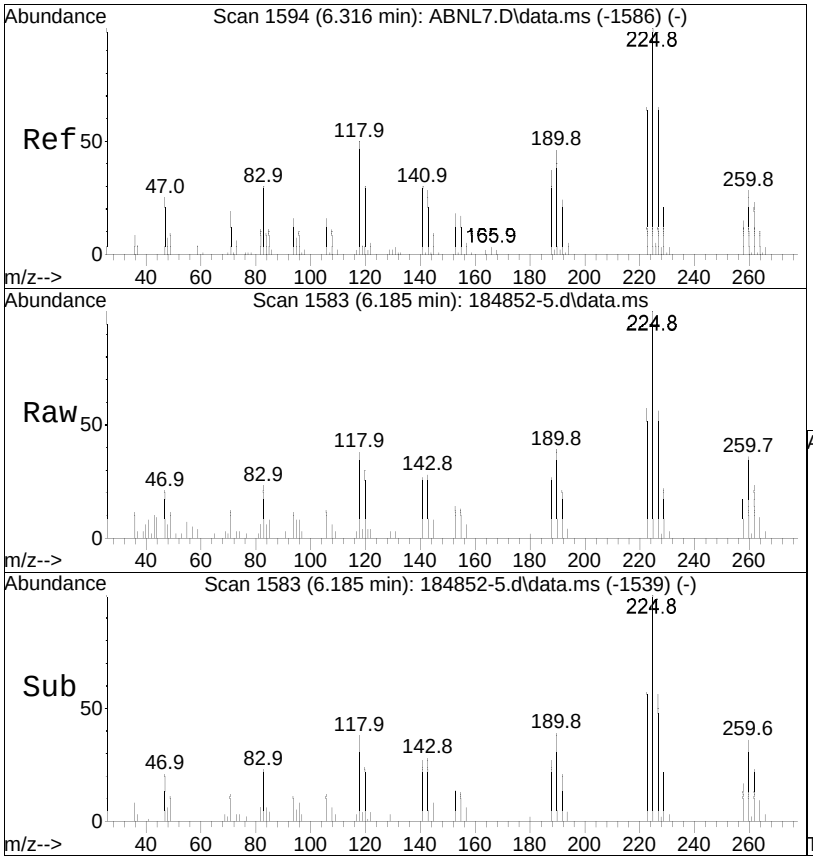


#37
4-Chloroaniline
Concen: 2.13 ug/ml
RT: 6.111 min Scan# 1557
Delta R.T. -0.003 min
Lab File: 184852-5.d
Acq: 9 Dec 2018 10:37 pm

Tgt Ion: 65 Resp: 1692

Ion	Ratio	Lower	Upper
65	100		
127	354.2	233.2	349.8#
129	130.3	74.6	111.8#

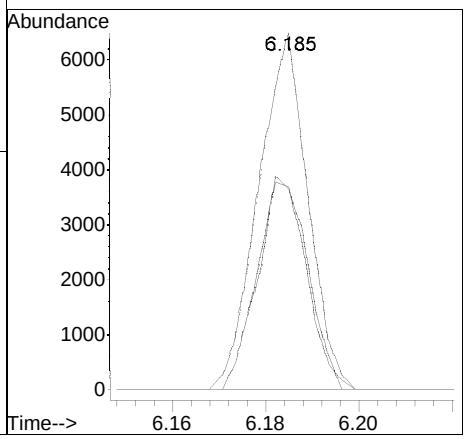


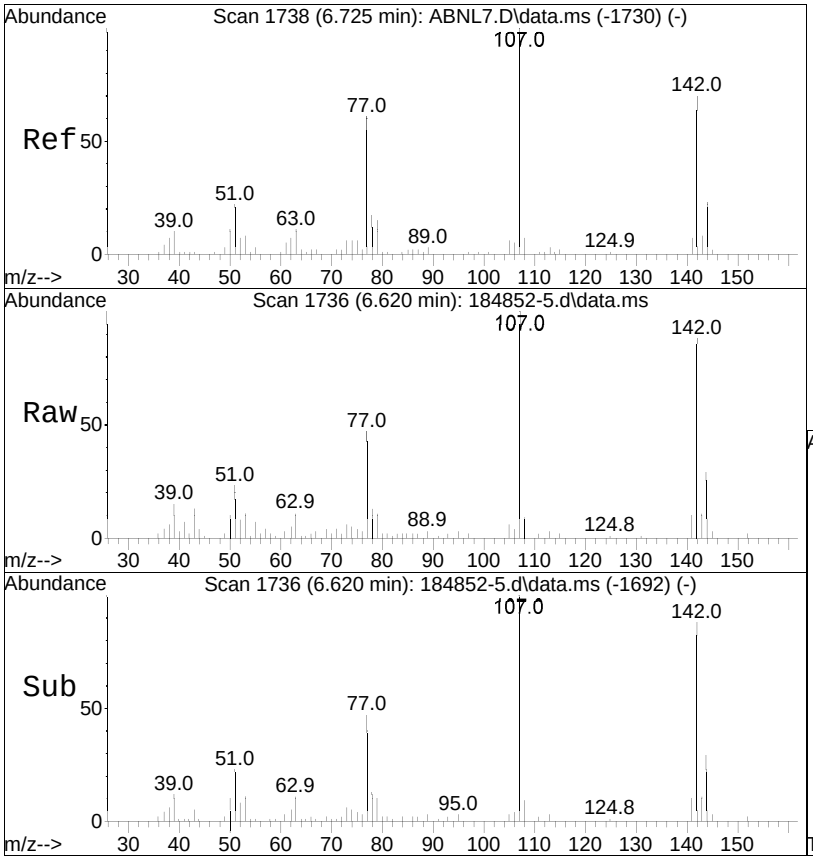


#38
Hexachlorobutadiene
Concen: 5.88 ug/ml
RT: 6.185 min Scan# 1583
Delta R.T. 0.000 min
Lab File: 184852-5.d
Acq: 9 Dec 2018 10:37 pm

Tgt Ion:225 Resp: 4745

Ion	Ratio	Lower	Upper
225	100		
223	59.5	49.4	74.0
227	60.4	50.8	76.2

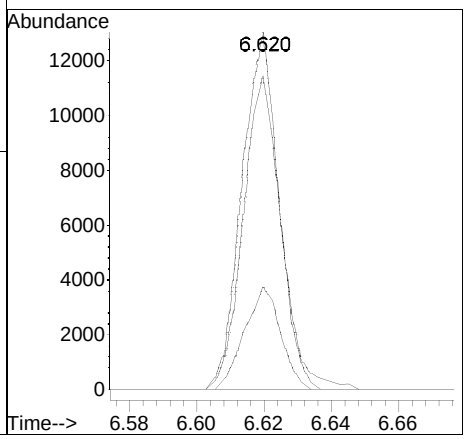


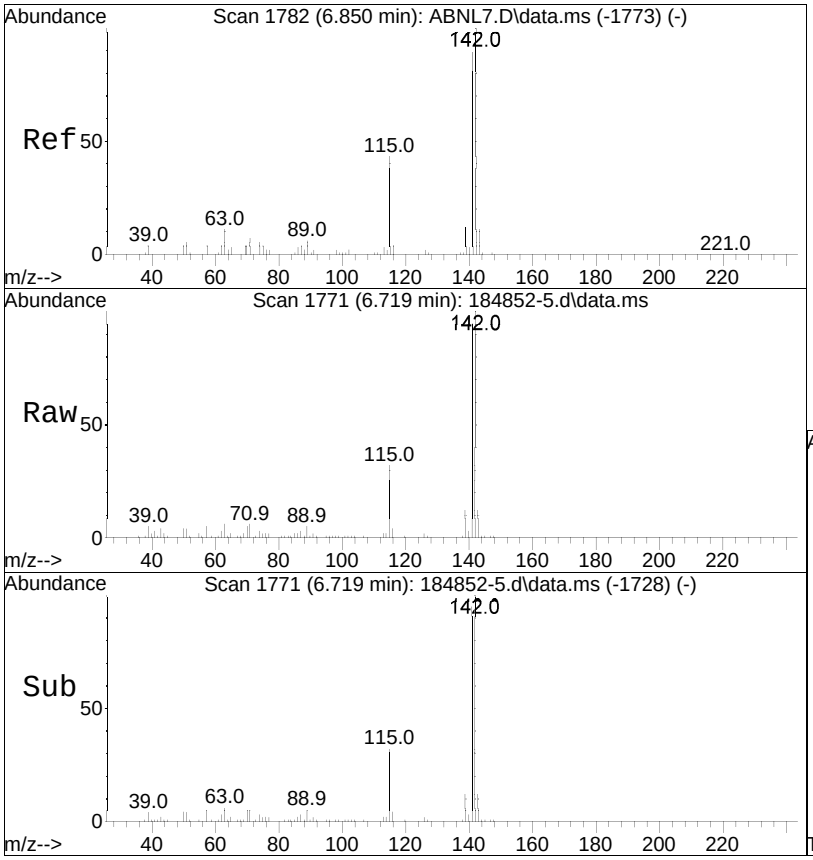


#39
p-Chloro-m-cresol
Concen: 5.83 ug/ml
RT: 6.620 min Scan# 1736
Delta R.T. 0.000 min
Lab File: 184852-5.d
Acq: 9 Dec 2018 10:37 pm

Tgt Ion:107 Resp: 10109

Ion	Ratio	Lower	Upper
107	100		
144	27.5	19.6	29.4
142	85.3	62.2	93.4

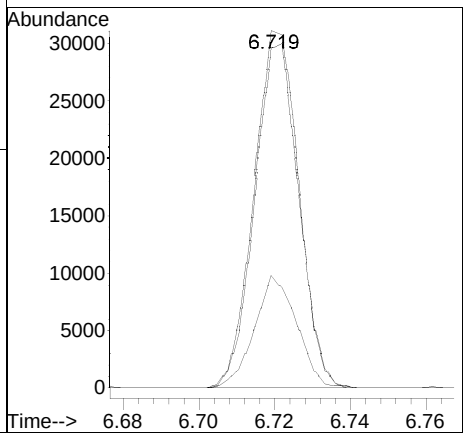


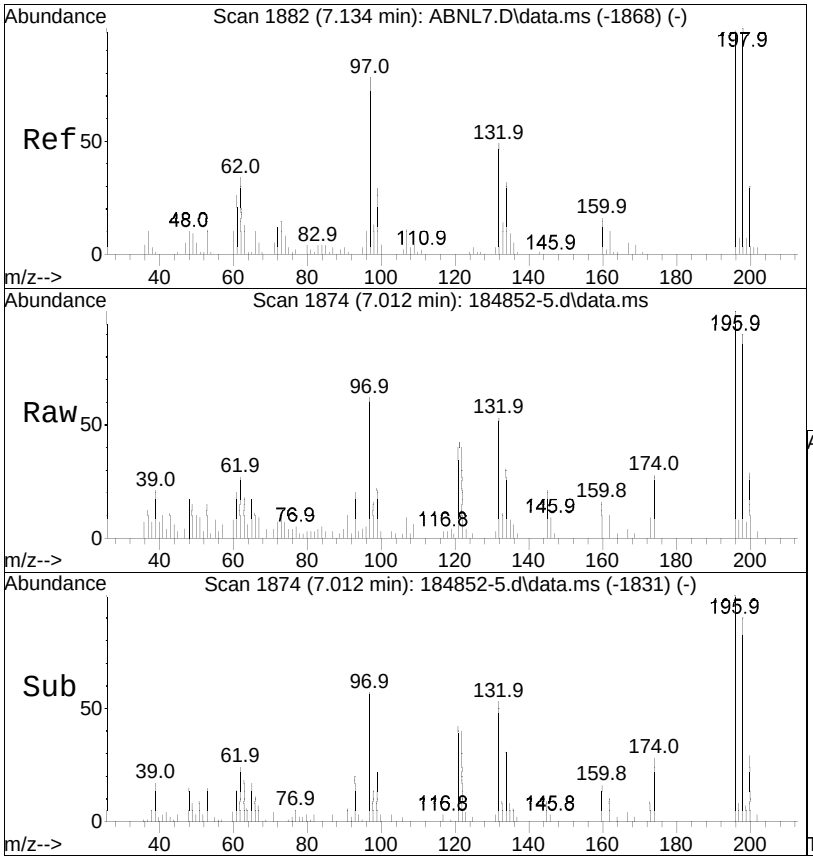


#40
2-Methylnaphthalene
Concen: 6.13 ug/ml
RT: 6.719 min Scan# 1771
Delta R.T. -0.003 min
Lab File: 184852-5.d
Acq: 9 Dec 2018 10:37 pm

Tgt Ion:142 Resp: 25593

Ion	Ratio	Lower	Upper
142	100		
141	94.5	71.8	107.8
115	29.8	29.1	43.7

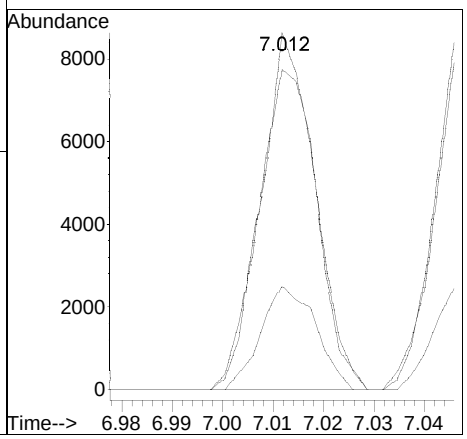


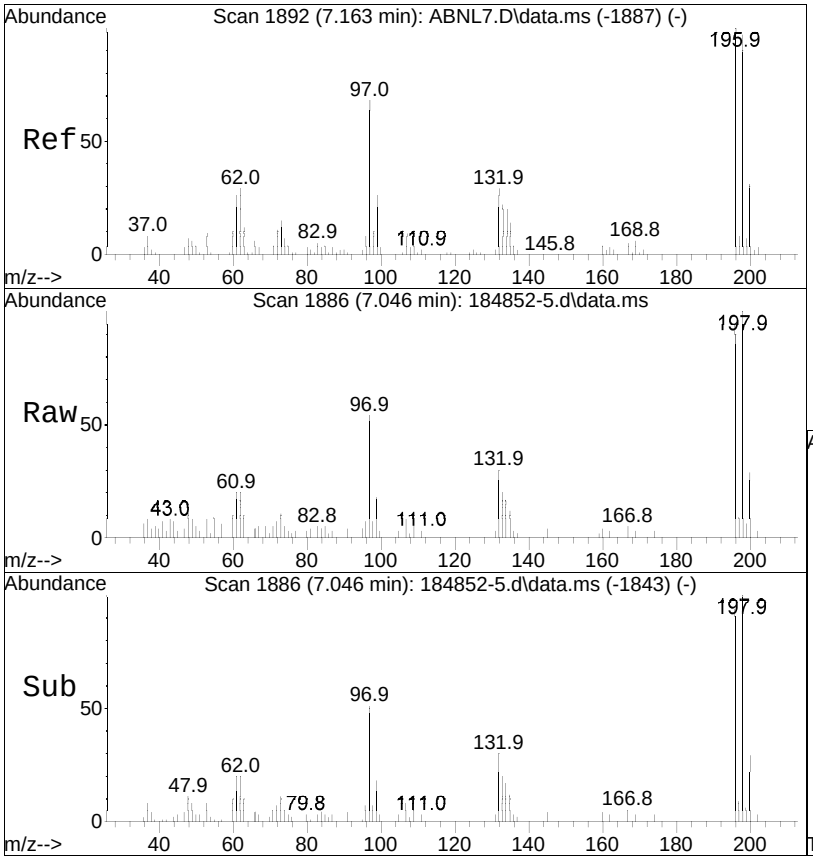


#43
2,4,6-Trichlorophenol
Concen: 6.01 ug/ml
RT: 7.012 min Scan# 1874
Delta R.T. -0.003 min
Lab File: 184852-5.d
Acq: 9 Dec 2018 10:37 pm

Tgt Ion:196 Resp: 6403

Ion	Ratio	Lower	Upper
196	100		
198	97.6	81.5	122.3
200	29.6	26.2	39.2

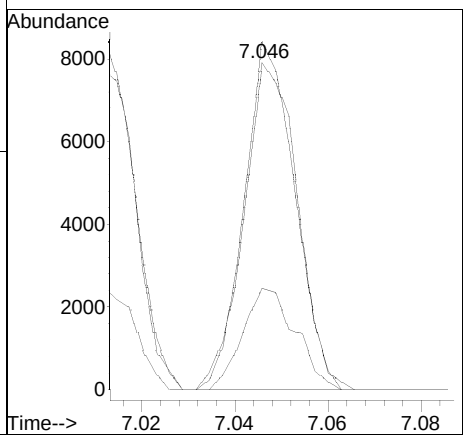


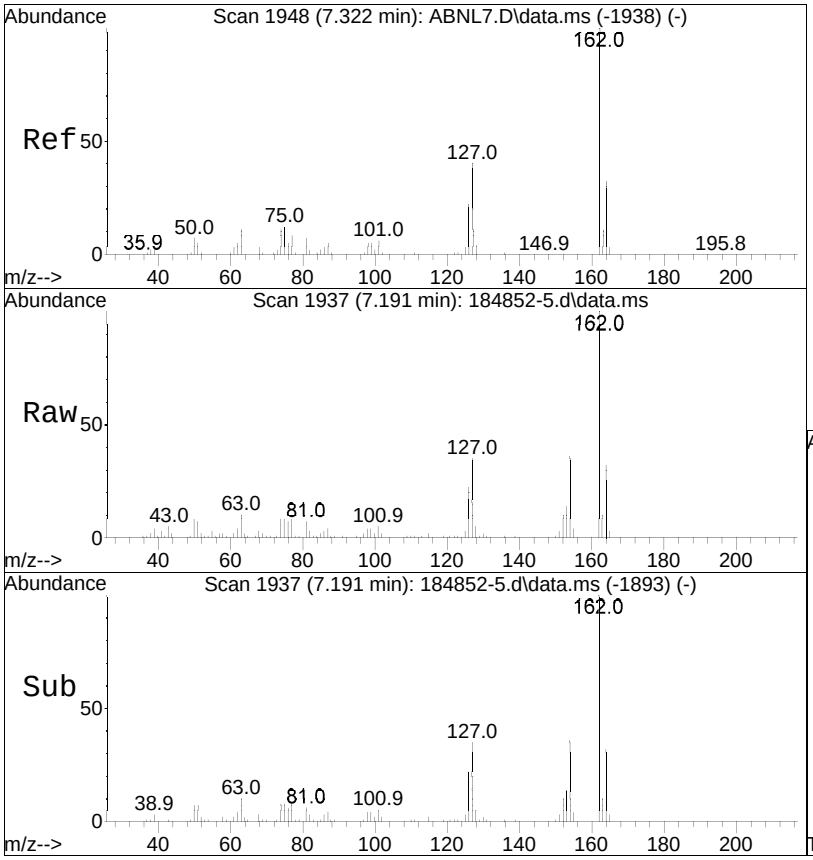


#44
2,4,5-Trichlorophenol
Concen: 5.62 ug/ml
RT: 7.046 min Scan# 1886
Delta R.T. -0.003 min
Lab File: 184852-5.d
Acq: 9 Dec 2018 10:37 pm

Tgt Ion:196 Resp: 6312

Ion	Ratio	Lower	Upper
196	100		
200	30.5	25.5	38.3
198	100.5	79.2	118.8

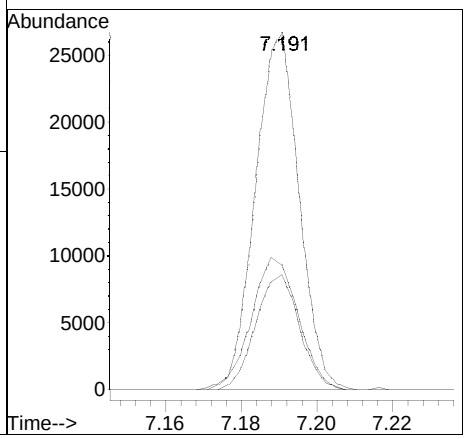


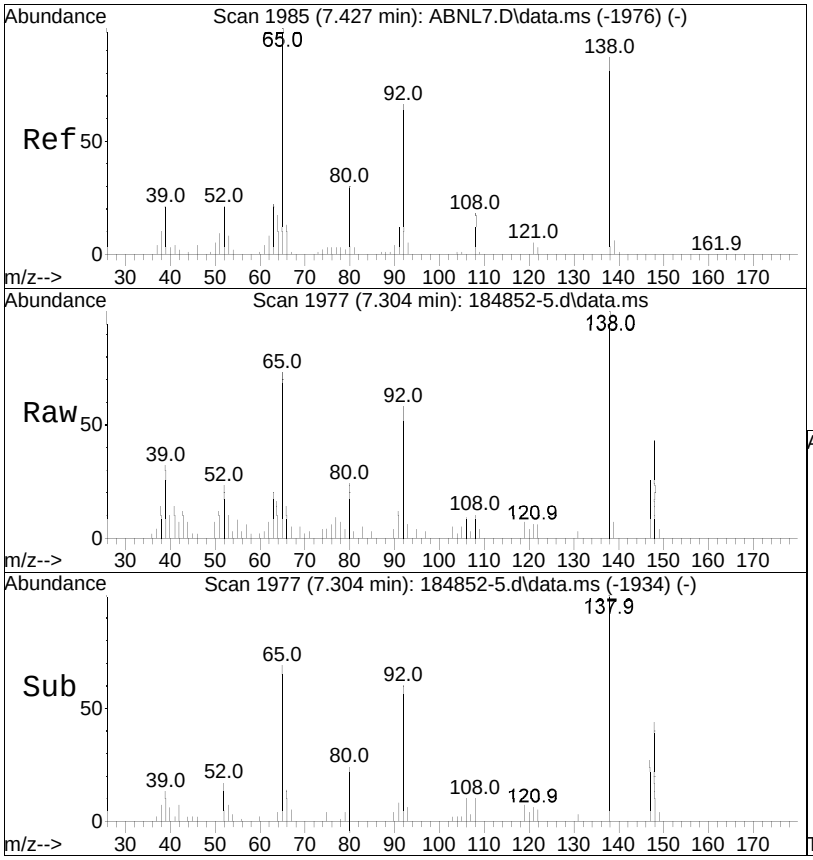


#46
2-Chloronaphthalene
Concen: 5.86 ug/ml
RT: 7.191 min Scan# 1937
Delta R.T. 0.000 min
Lab File: 184852-5.d
Acq: 9 Dec 2018 10:37 pm

Tgt Ion:162 Resp: 21193

Ion	Ratio	Lower	Upper
162	100		
127	40.2	33.6	50.4
164	32.6	25.8	38.8

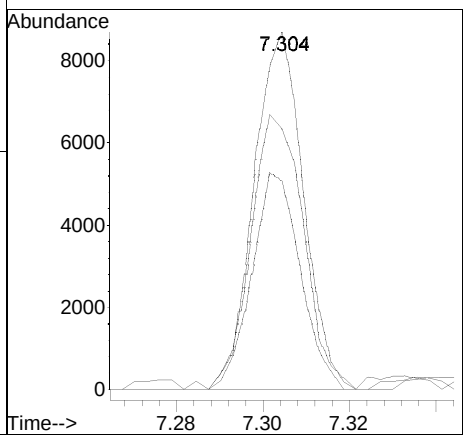


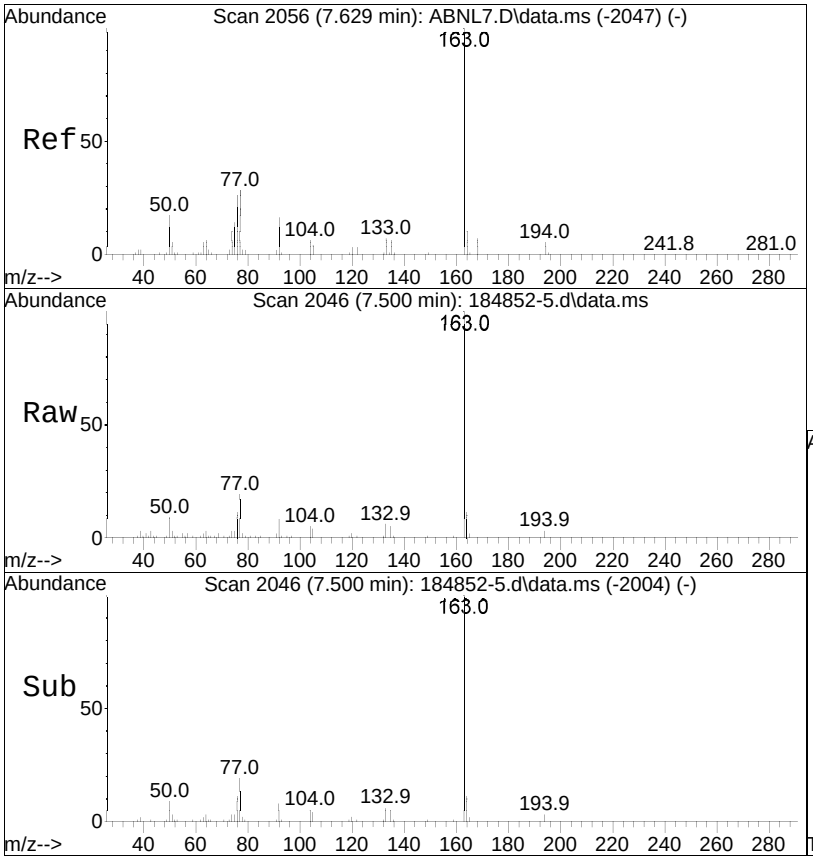


#47
2-Nitroaniline
Concen: 5.32 ug/ml
RT: 7.304 min Scan# 1977
Delta R.T. -0.003 min
Lab File: 184852-5.d
Acq: 9 Dec 2018 10:37 pm

Tgt Ion:138 Resp: 6877

Ion	Ratio	Lower	Upper
138	100		
92	59.5	54.2	81.2
65	82.1	82.8	124.2#

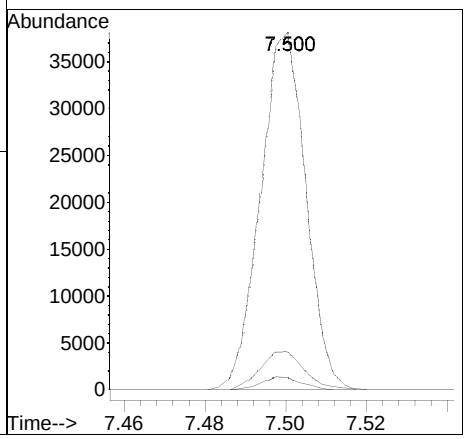


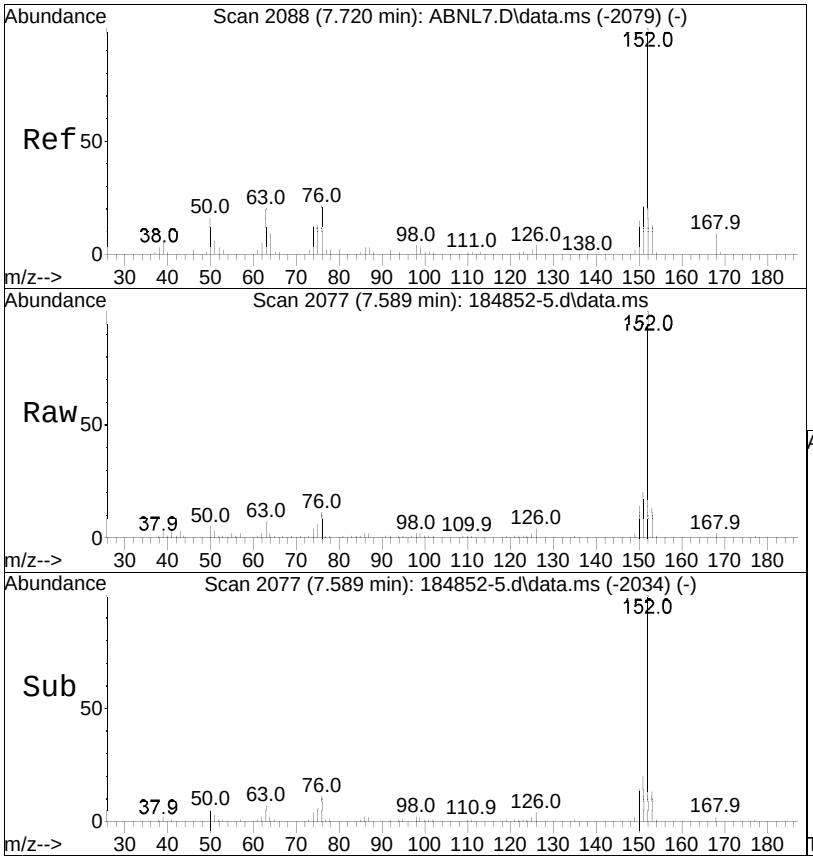


#50
Dimethyl phthalate
Concen: 7.21 ug/ml
RT: 7.500 min Scan# 2046
Delta R.T. -0.006 min
Lab File: 184852-5.d
Acq: 9 Dec 2018 10:37 pm

Tgt Ion:163 Resp: 29464

Ion	Ratio	Lower	Upper
163	100		
194	0.0	2.6	4.0#
164	10.8	8.2	12.4

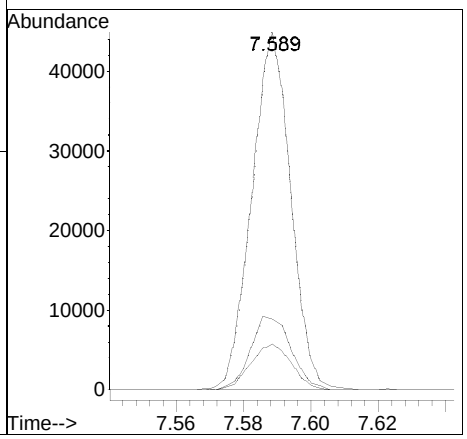


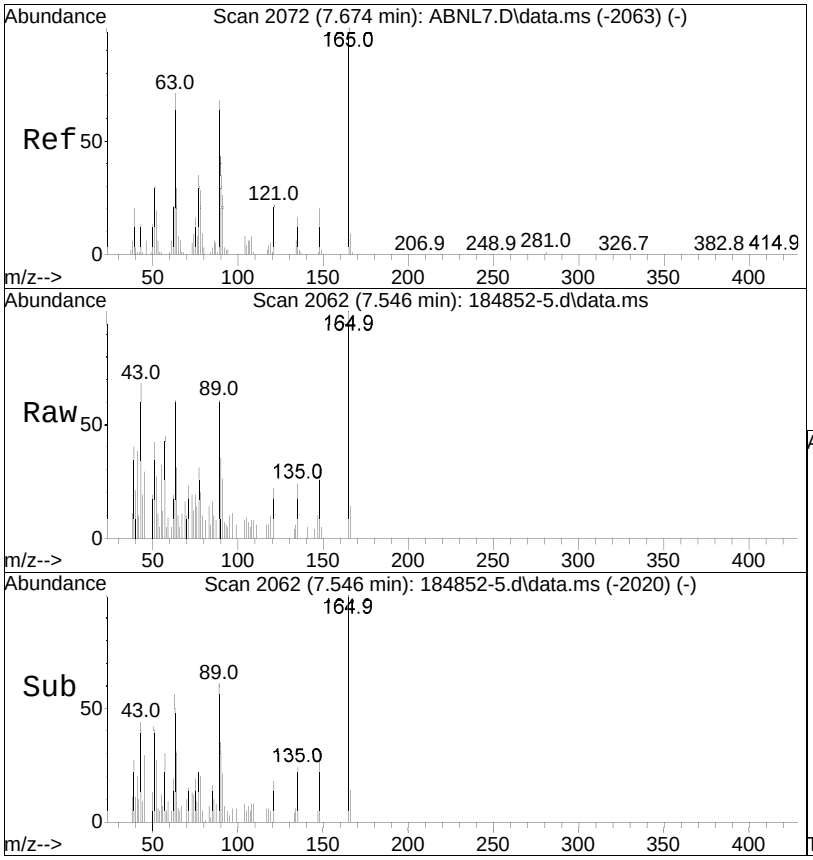


#51
Acenaphthylene
Concen: 5.98 ug/ml
RT: 7.589 min Scan# 2077
Delta R.T. -0.003 min
Lab File: 184852-5.d
Acq: 9 Dec 2018 10:37 pm

Tgt Ion:152 Resp: 35589

Ion	Ratio	Lower	Upper
152	100		
151	21.6	16.4	24.6
153	13.6	11.0	16.6

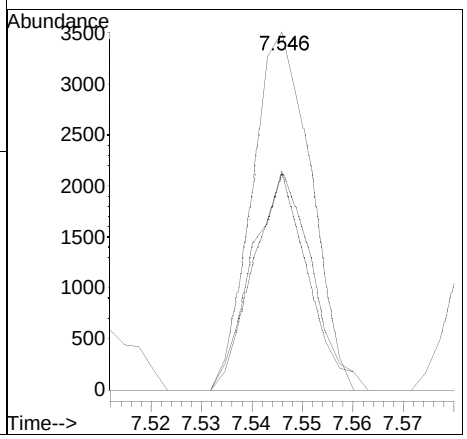


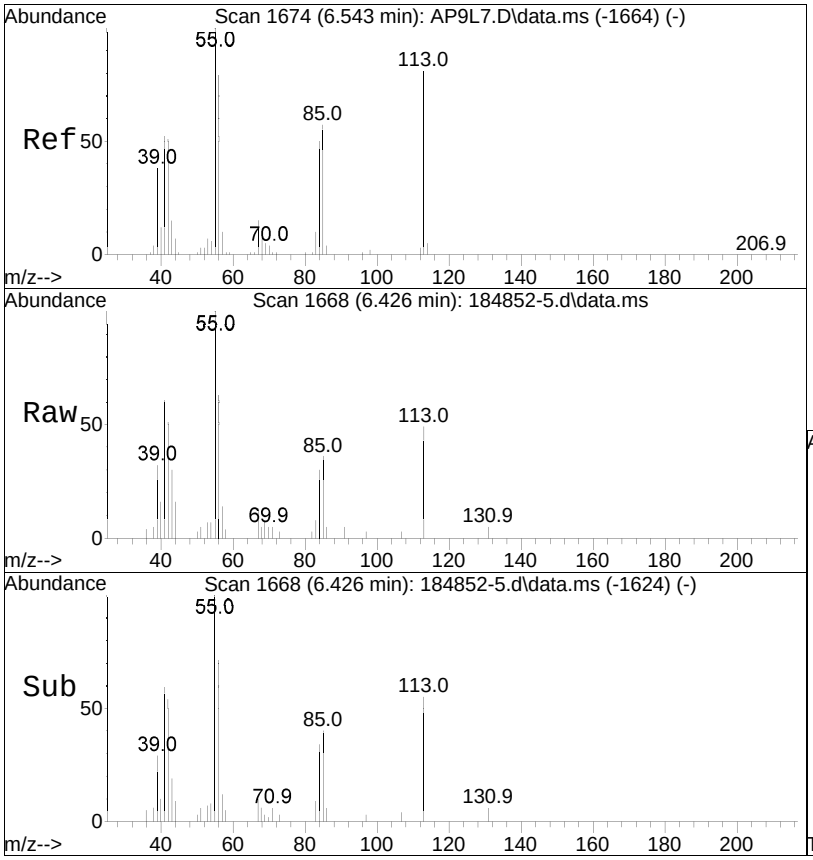


#52
2,6-Dinitrotoluene
Concen: 3.15 ug/ml
RT: 7.546 min Scan# 2062
Delta R.T. -0.006 min
Lab File: 184852-5.d
Acq: 9 Dec 2018 10:37 pm

Tgt Ion:165 Resp: 2829

Ion	Ratio	Lower	Upper
165	100		
89	60.2	50.4	75.6
63	58.1	56.9	85.3

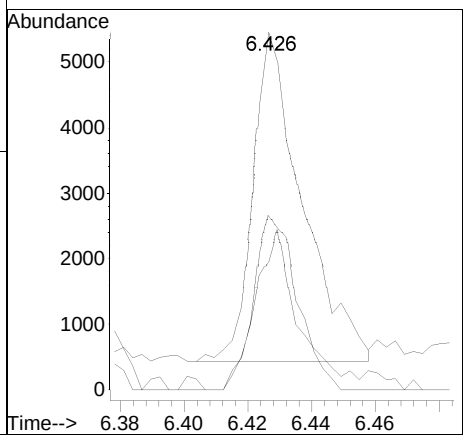


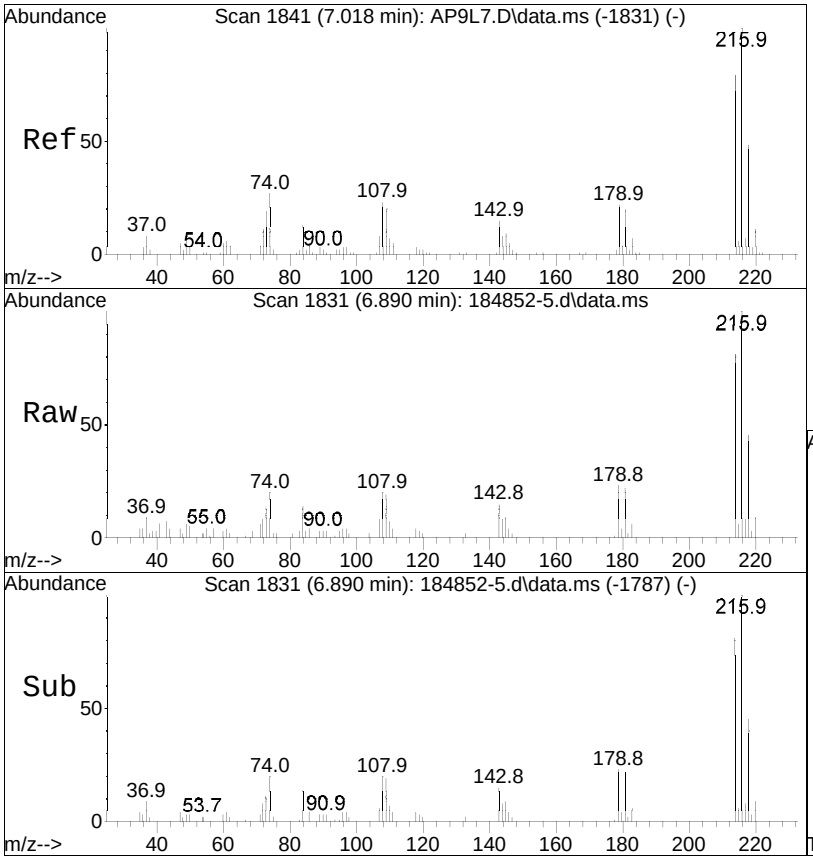


#59
Caprolactam
Concen: 4.94 ug/ml
RT: 6.426 min Scan# 1668
Delta R.T. 0.000 min
Lab File: 184852-5.d
Acq: 9 Dec 2018 10:37 pm

Tgt Ion: 55 Resp: 5401

Ion	Ratio	Lower	Upper
55	100		
85	42.6	31.3	46.9
113	47.0	35.4	53.0

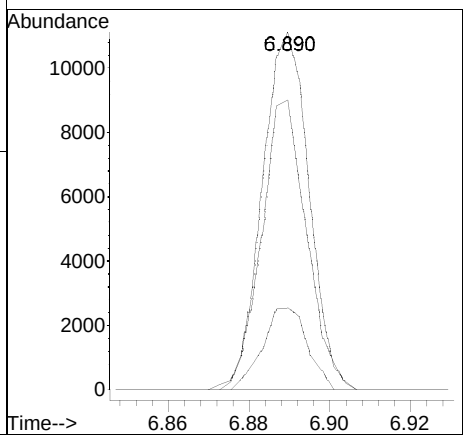


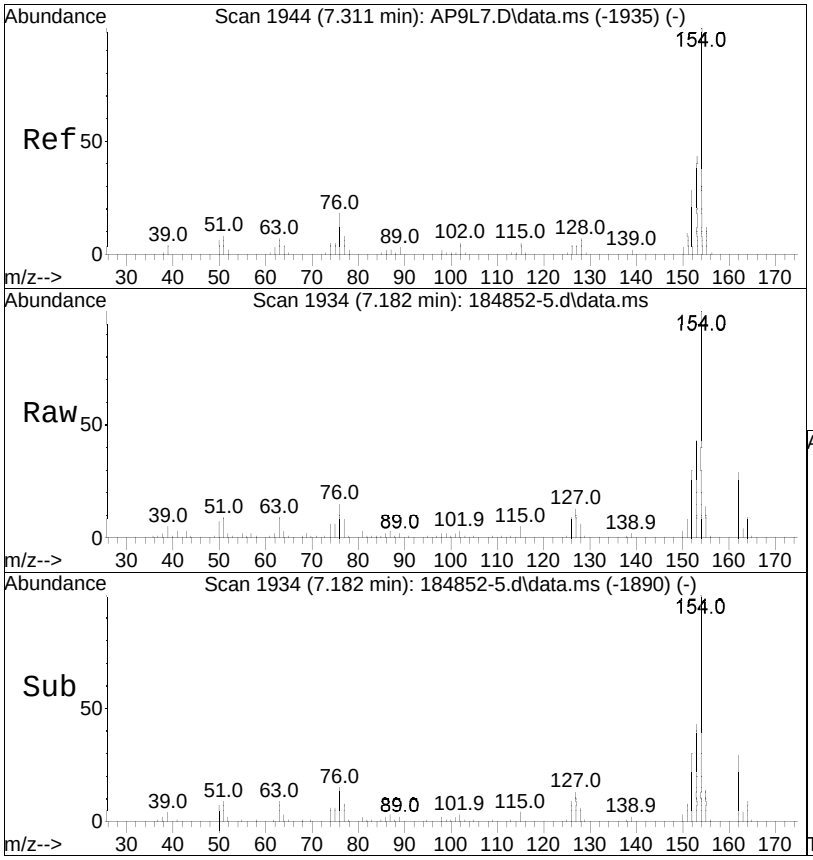


#60
1,2,4,5-Tetrachlorobenzene
Concen: 6.35 ug/ml
RT: 6.890 min Scan# 1831
Delta R.T. 0.000 min
Lab File: 184852-5.d
Acq: 9 Dec 2018 10:37 pm

Tgt Ion:216 Resp: 8885

Ion	Ratio	Lower	Upper
216	100		
214	78.0	63.1	94.7
179	22.1	19.4	29.0

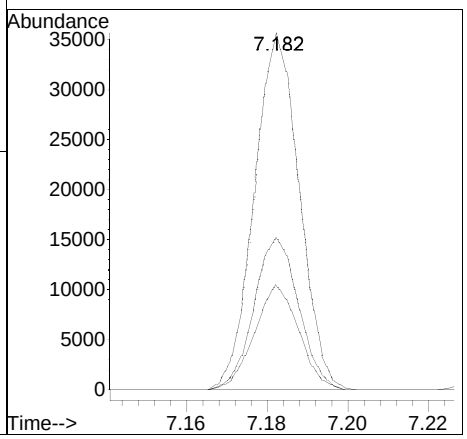


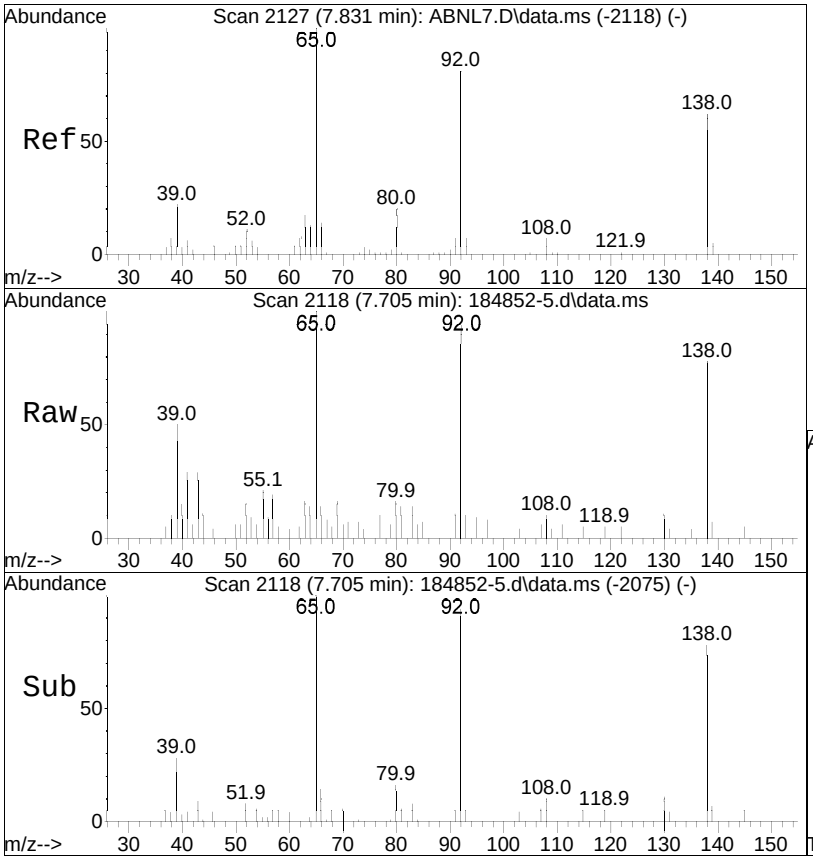


#61
Biphenyl
Concen: 6.07 ug/ml
RT: 7.182 min Scan# 1934
Delta R.T. 0.000 min
Lab File: 184852-5.d
Acq: 9 Dec 2018 10:37 pm

Tgt Ion:154 Resp: 27446

Ion	Ratio	Lower	Upper
154	100		
153	42.5	33.0	49.6
152	29.2	21.7	32.5

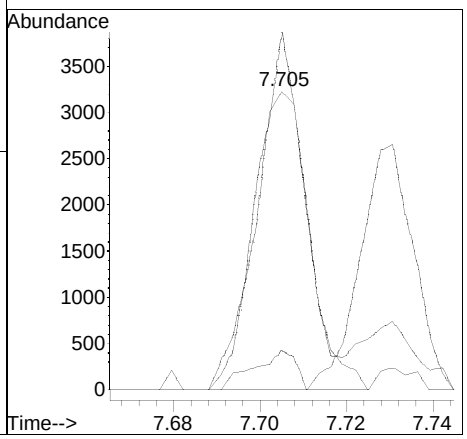


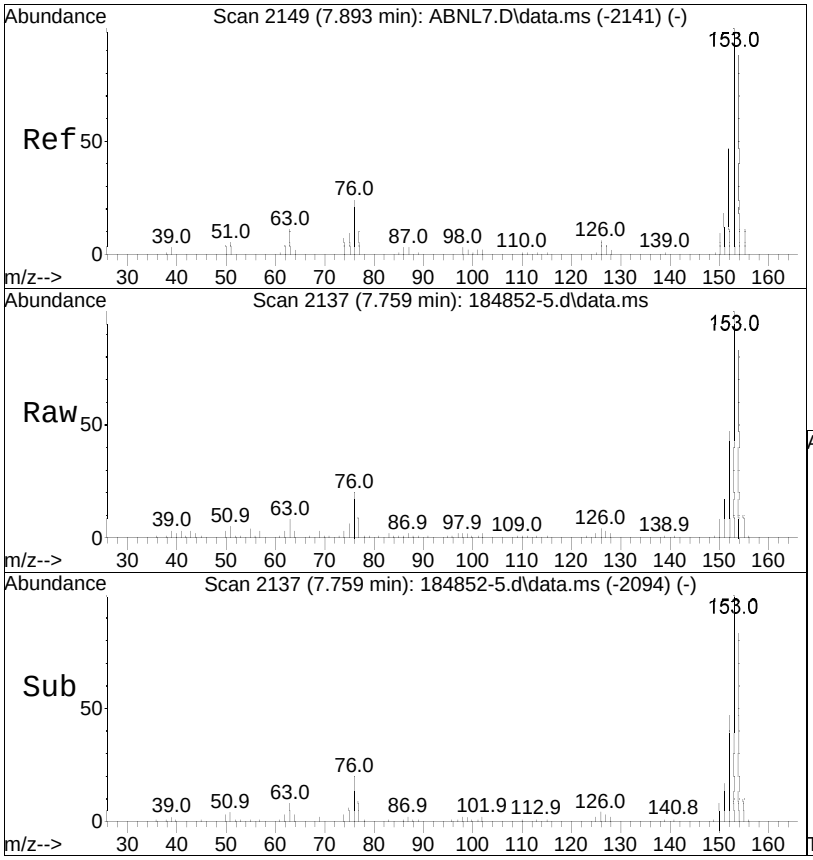


#63
3-Nitroaniline
Concen: 2.62 ug/ml
RT: 7.705 min Scan# 2118
Delta R.T. -0.003 min
Lab File: 184852-5.d
Acq: 9 Dec 2018 10:37 pm

Tgt Ion:138 Resp: 2833

Ion	Ratio	Lower	Upper
138	100		
92	107.0	95.4	143.2
108	80.1	8.6	12.8#

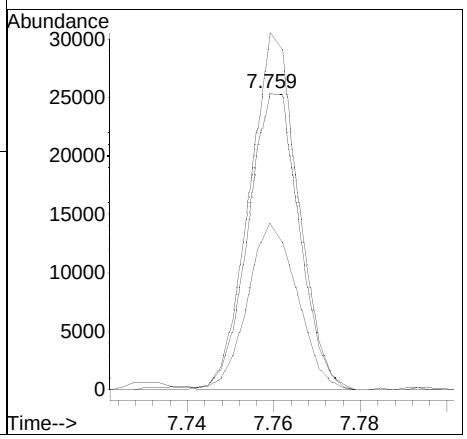


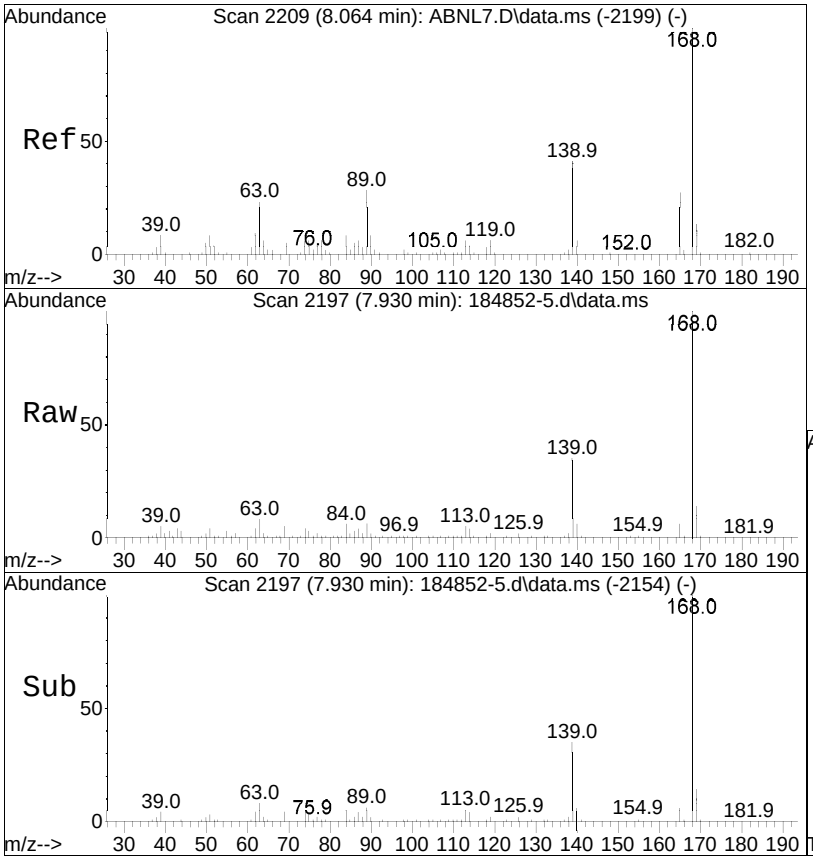


#64
Acenaphthene
Concen: 6.09 ug/ml
RT: 7.759 min Scan# 2137
Delta R.T. -0.003 min
Lab File: 184852-5.d
Acq: 9 Dec 2018 10:37 pm

Tgt Ion:154 Resp: 20666

Ion	Ratio	Lower	Upper
154	100		
153	115.3	91.3	136.9
152	55.2	41.0	61.4

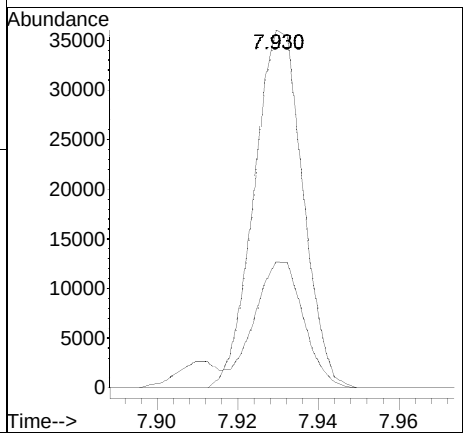


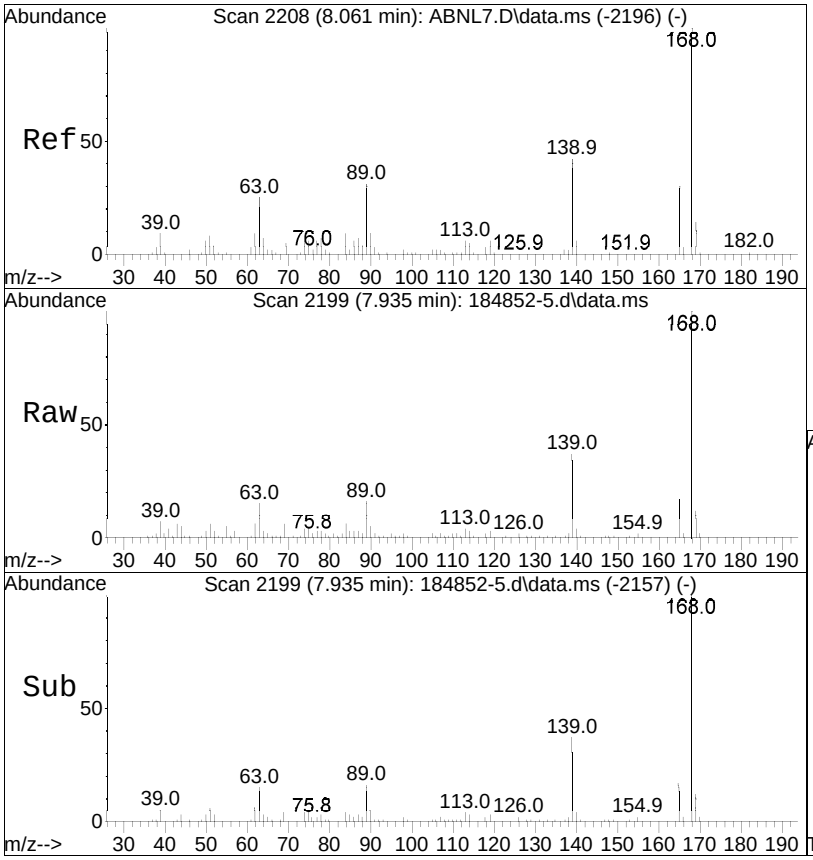


#66
Dibenzofuran
Concen: 6.07 ug/ml
RT: 7.930 min Scan# 2197
Delta R.T. -0.003 min
Lab File: 184852-5.d
Acq: 9 Dec 2018 10:37 pm

Tgt Ion:168 Resp: 30003

Ion	Ratio	Lower	Upper
168	100		
139	35.9	33.2	49.8

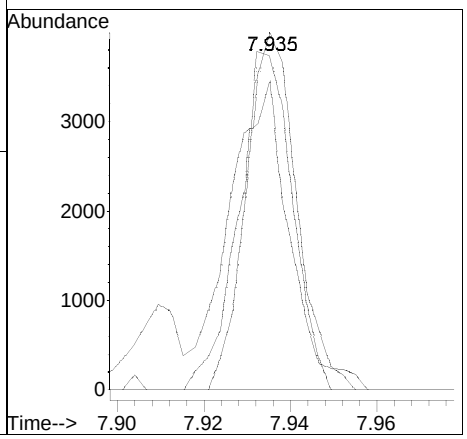


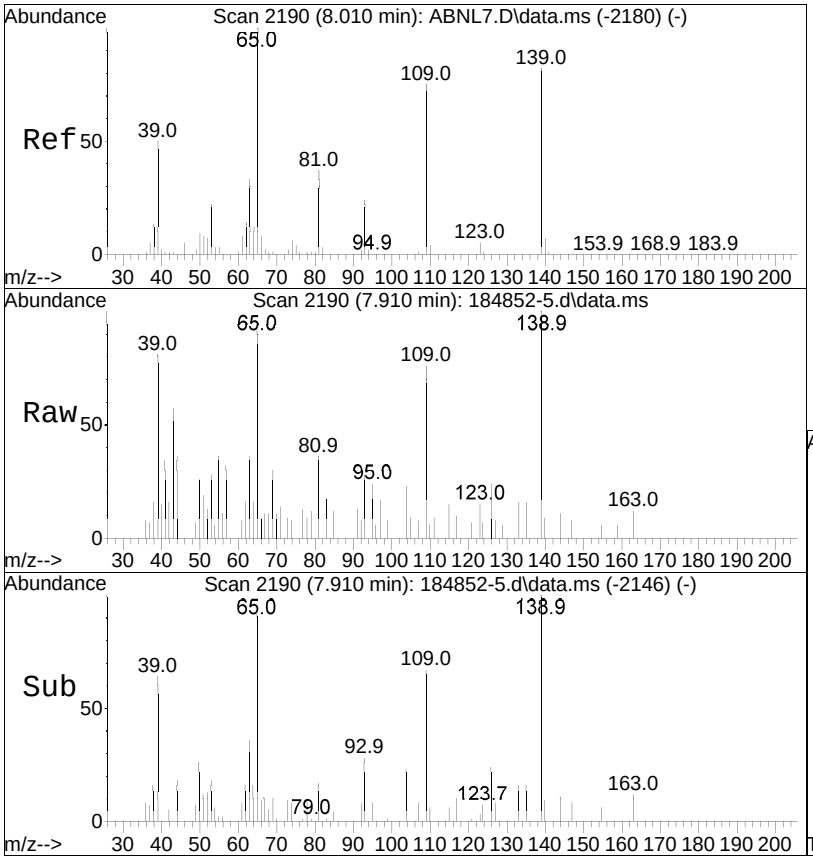


#67
2,4-Dinitrotoluene
Concen: 2.81 ug/ml
RT: 7.935 min Scan# 2199
Delta R.T. -0.006 min
Lab File: 184852-5.d
Acq: 9 Dec 2018 10:37 pm

Tgt Ion:165 Resp: 3240

Ion	Ratio	Lower	Upper
165	100		
89	100.4	75.7	113.5
63	103.0	62.6	94.0#

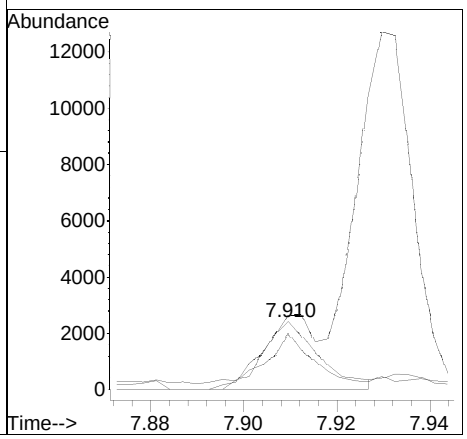


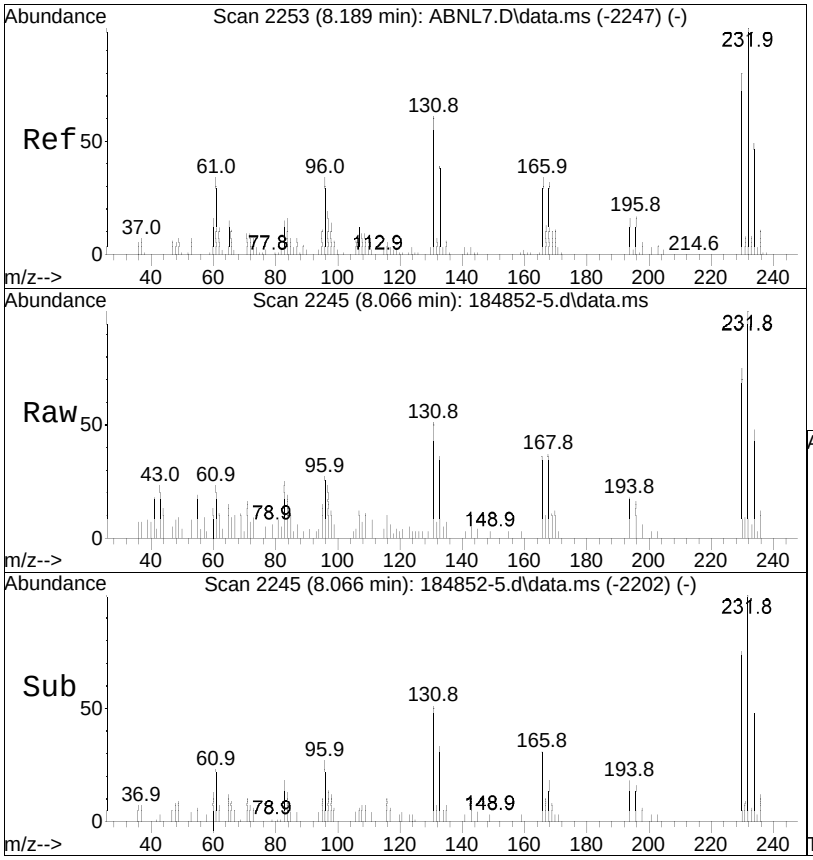


#68
4-Nitrophenol
Concen: 2.24 ug/ml
RT: 7.910 min Scan# 2190
Delta R.T. 0.000 min
Lab File: 184852-5.d
Acq: 9 Dec 2018 10:37 pm

Tgt Ion: 65 Resp: 2103

Ion	Ratio	Lower	Upper
65	100		
109	58.8	55.4	83.2
139	89.8	72.9	109.3

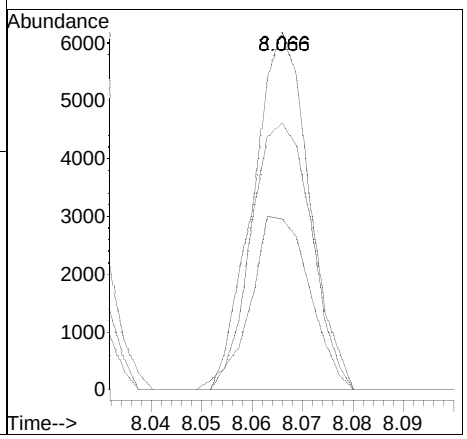


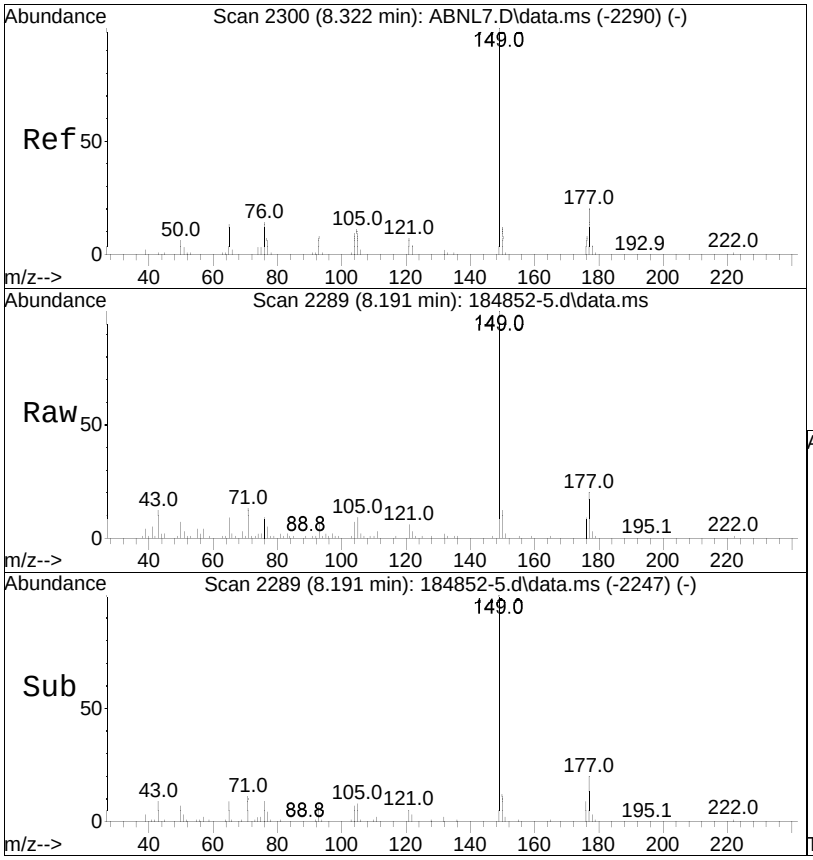


#70
2,3,4,6-Tetrachlorophenol
Concen: 5.53 ug/ml
RT: 8.066 min Scan# 2245
Delta R.T. -0.003 min
Lab File: 184852-5.d
Acq: 9 Dec 2018 10:37 pm

Tgt Ion:232 Resp: 4777

Ion	Ratio	Lower	Upper
232	100		
230	80.2	63.7	95.5
234	50.4	38.4	57.6

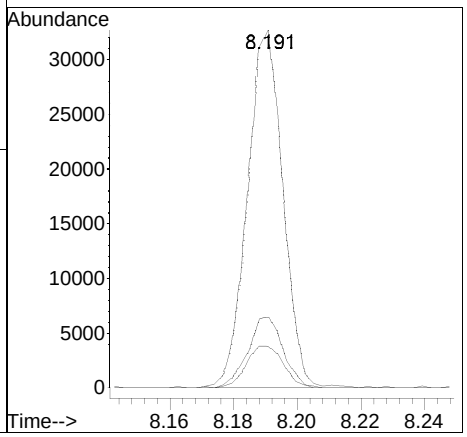


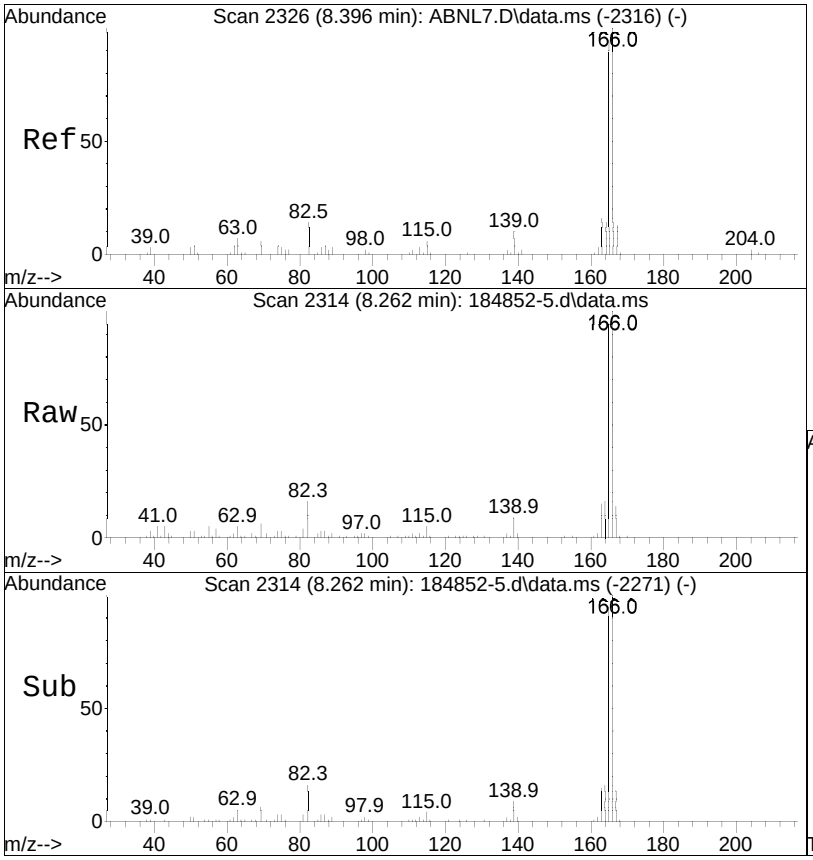


#71
Diethyl phthalate
Concen: 5.94 ug/ml
RT: 8.191 min Scan# 2289
Delta R.T. -0.006 min
Lab File: 184852-5.d
Acq: 9 Dec 2018 10:37 pm

Tgt Ion:149 Resp: 25063

Ion	Ratio	Lower	Upper
149	100		
177	19.9	15.5	23.3
150	12.5	9.5	14.3

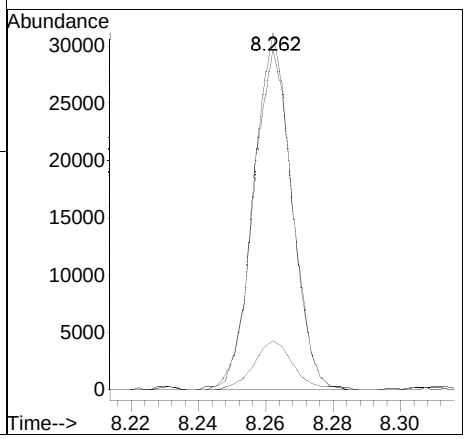


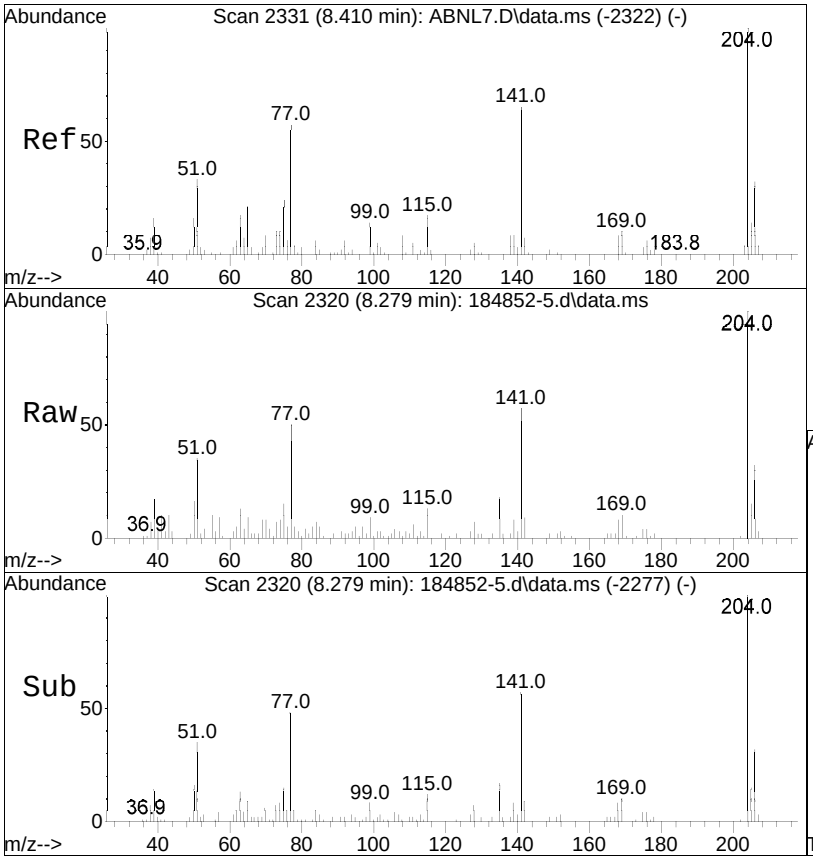


#72
Fluorene
Concen: 6.14 ug/ml
RT: 8.262 min Scan# 2314
Delta R.T. -0.003 min
Lab File: 184852-5.d
Acq: 9 Dec 2018 10:37 pm

Tgt Ion:166 Resp: 24418

Ion	Ratio	Lower	Upper
166	100		
165	98.1	79.3	118.9
167	14.4	10.6	16.0

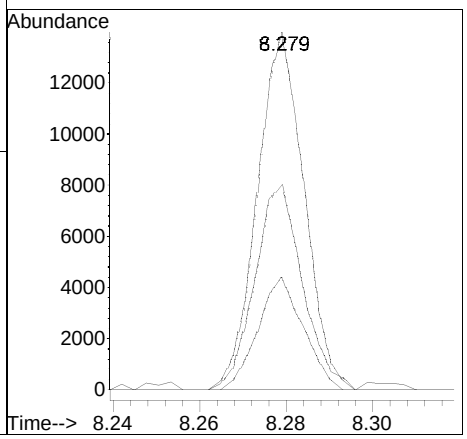


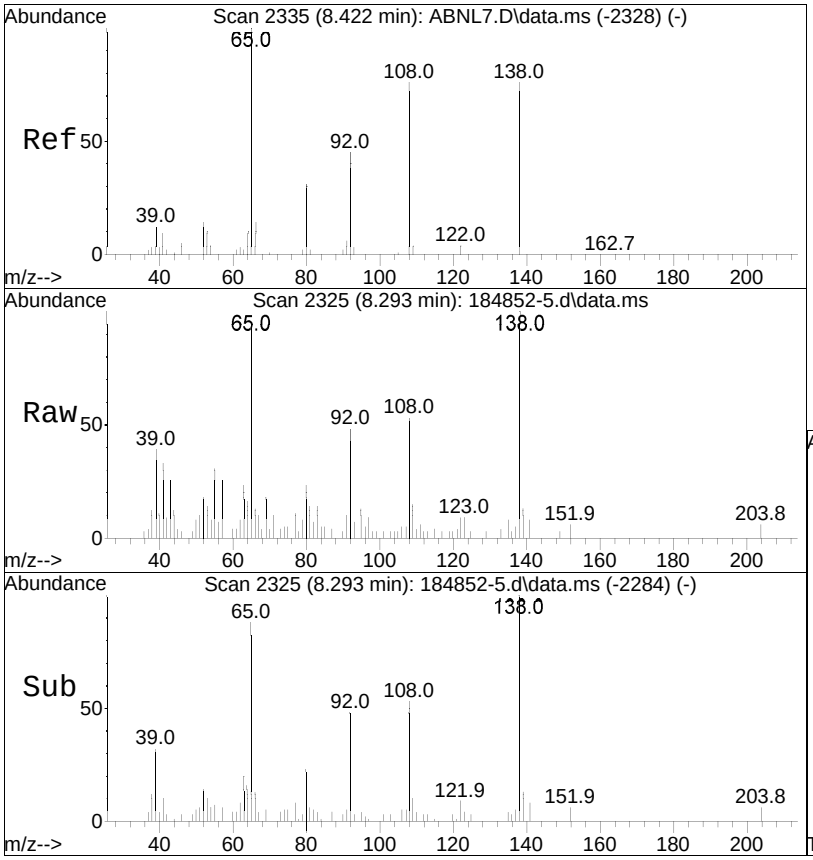


#73
4-Chlorophenyl phenyl ether
Concen: 6.06 ug/ml
RT: 8.279 min Scan# 2320
Delta R.T. -0.003 min
Lab File: 184852-5.d
Acq: 9 Dec 2018 10:37 pm

Tgt Ion:204 Resp: 10406

Ion	Ratio	Lower	Upper
204	100		
206	30.7	26.2	39.4
141	58.8	57.2	85.8

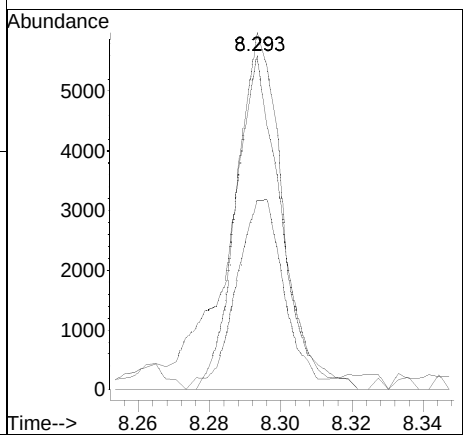


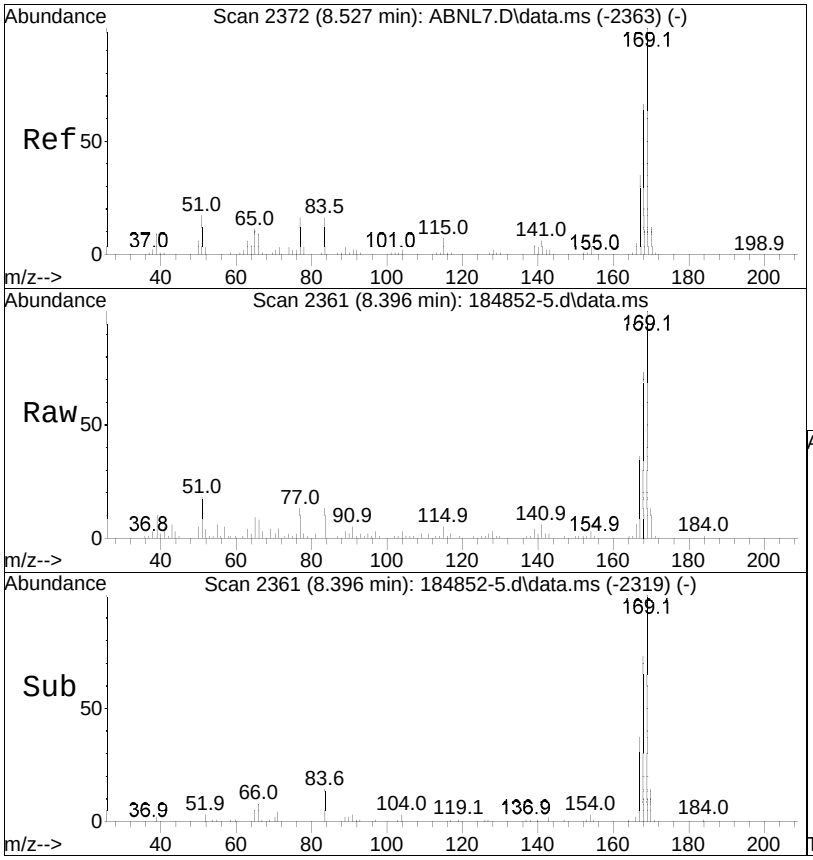


#74
4-Nitroaniline
Concen: 4.98 ug/ml
RT: 8.293 min Scan# 2325
Delta R.T. -0.009 min
Lab File: 184852-5.d
Acq: 9 Dec 2018 10:37 pm

Tgt Ion:138 Resp: 5306

Ion	Ratio	Lower	Upper
138	100		
108	57.5	62.7	94.1#
65	112.9	107.8	161.6

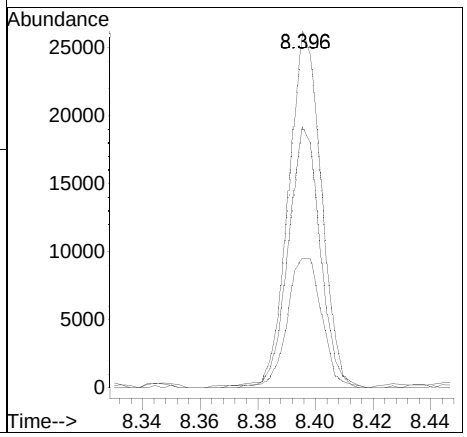


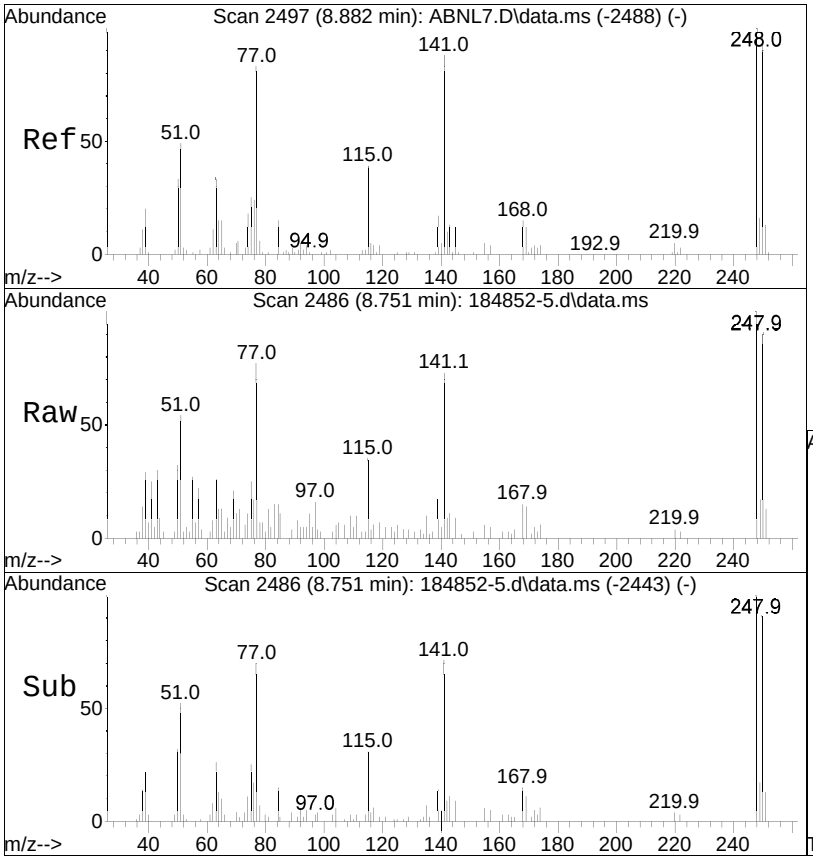


#76
NDPA/DPA
Concen: 6.21 ug/ml
RT: 8.396 min Scan# 2361
Delta R.T. -0.006 min
Lab File: 184852-5.d
Acq: 9 Dec 2018 10:37 pm

Tgt Ion:169 Resp: 20845

Ion	Ratio	Lower	Upper
169	100		
168	70.5	55.4	83.0
167	38.7	30.3	45.5

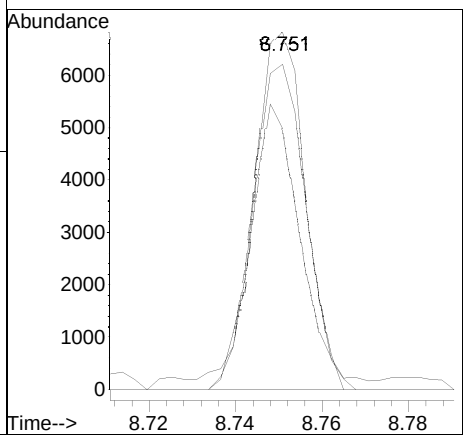


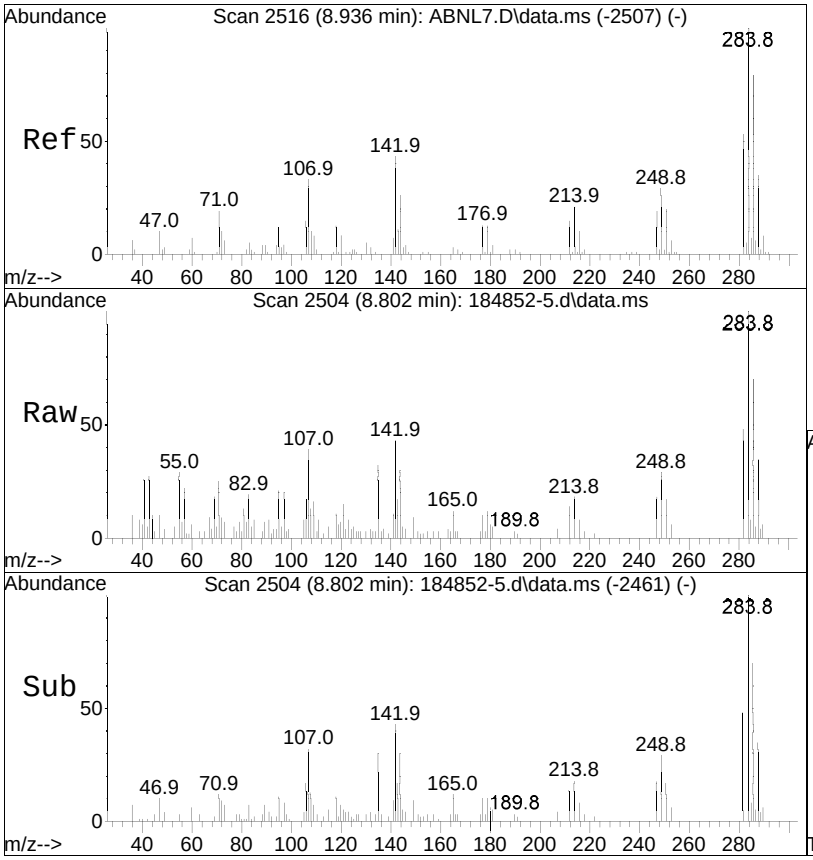


#79
4-Bromophenyl phenyl ether
Concen: 6.09 ug/ml
RT: 8.751 min Scan# 2486
Delta R.T. -0.003 min
Lab File: 184852-5.d
Acq: 9 Dec 2018 10:37 pm

Tgt Ion:248 Resp: 5625

Ion	Ratio	Lower	Upper
248	100		
141	81.1	76.8	115.2
250	93.5	79.7	119.5

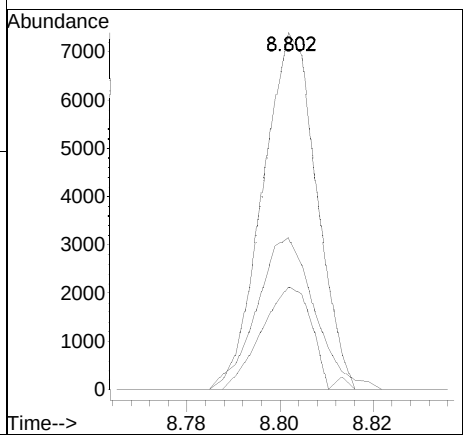


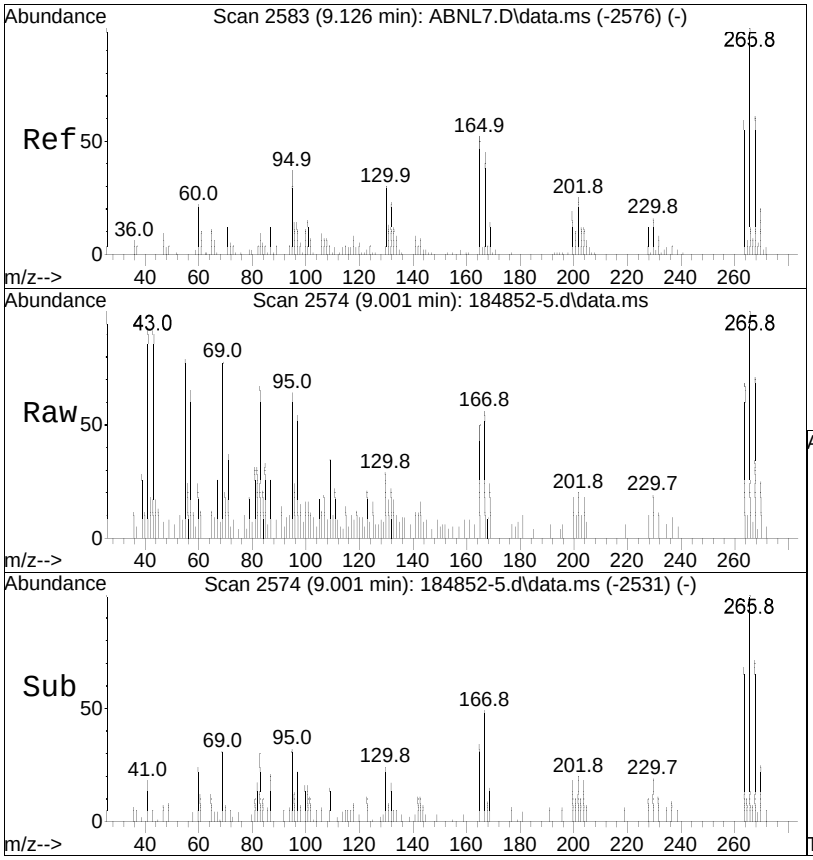


#80
Hexachlorobenzene
Concen: 5.92 ug/ml
RT: 8.802 min Scan# 2504
Delta R.T. -0.003 min
Lab File: 184852-5.d
Acq: 9 Dec 2018 10:37 pm

Tgt Ion:284 Resp: 5921

Ion	Ratio	Lower	Upper
284	100		
142	46.1	35.8	53.6
249	27.5	24.7	37.1

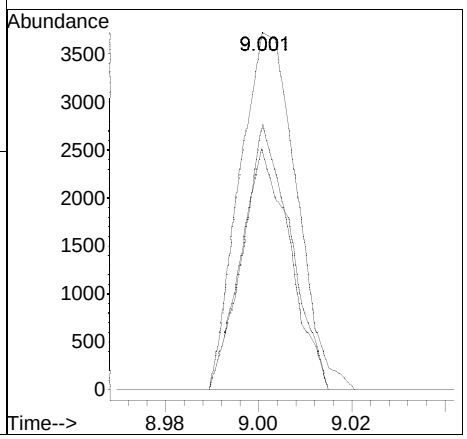


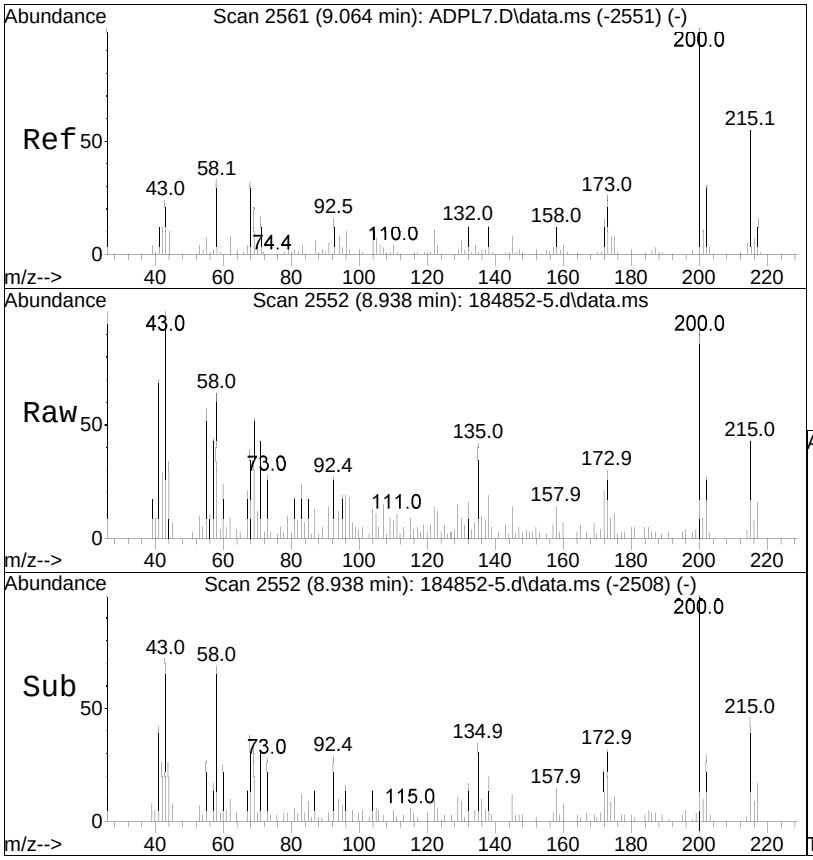


#81
Pentachlorophenol
Concen: 4.96 ug/ml
RT: 9.001 min Scan# 2574
Delta R.T. -0.003 min
Lab File: 184852-5.d
Acq: 9 Dec 2018 10:37 pm

Tgt Ion:266 Resp: 3140

Ion	Ratio	Lower	Upper
266	100		
264	60.4	51.8	77.6
268	60.6	49.8	74.8

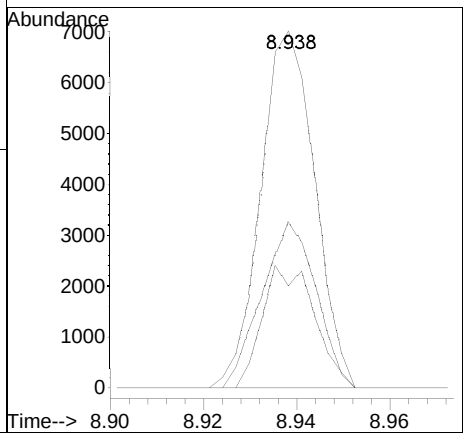


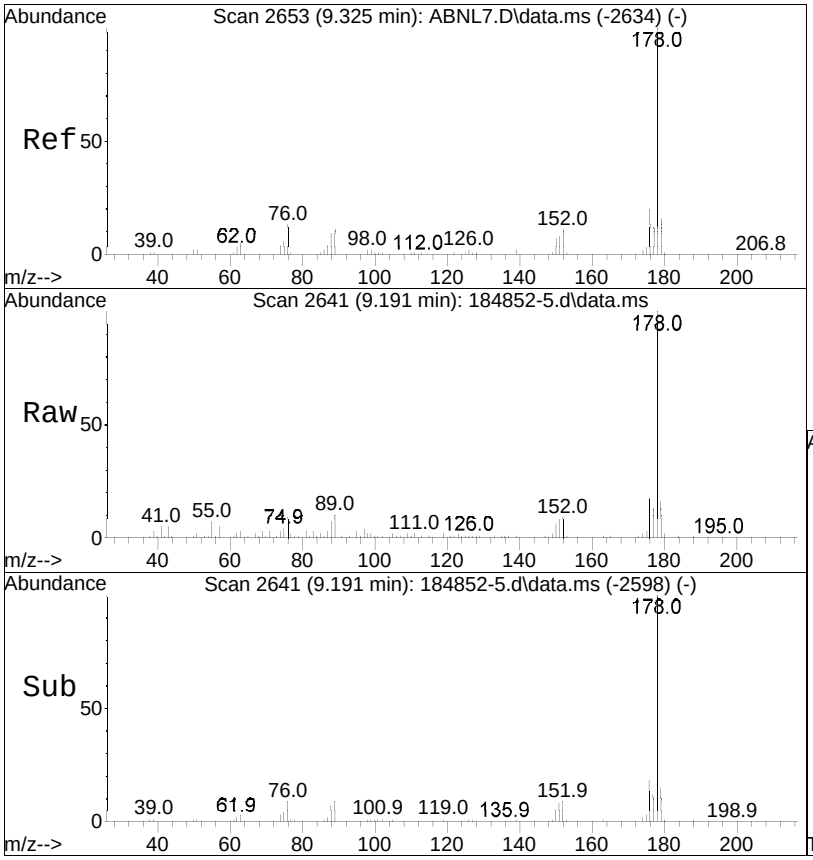


#86
Atrazine
Concen: 6.45 ug/ml
RT: 8.938 min Scan# 2552
Delta R.T. 0.000 min
Lab File: 184852-5.d
Acq: 9 Dec 2018 10:37 pm

Tgt Ion:200 Resp: 5628

Ion	Ratio	Lower	Upper
200	100		
202	33.0	24.9	37.3
215	46.7	34.0	51.0

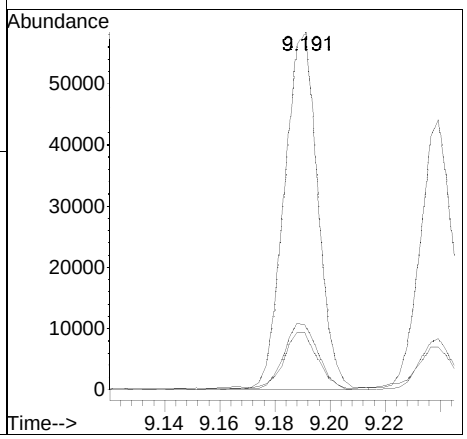


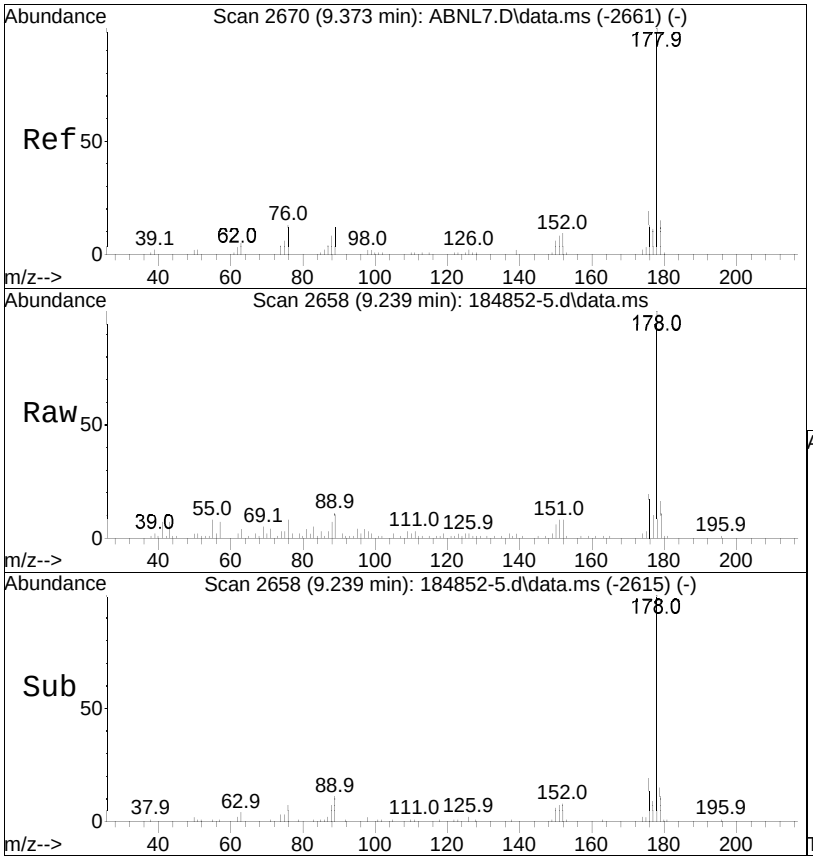


#88
Phenanthrene
Concen: 9.01 ug/ml
RT: 9.191 min Scan# 2641
Delta R.T. -0.003 min
Lab File: 184852-5.d
Acq: 9 Dec 2018 10:37 pm

Tgt Ion:178 Resp: 49437

Ion	Ratio	Lower	Upper
178	100		
179	15.3	12.2	18.2
176	18.9	15.4	23.2

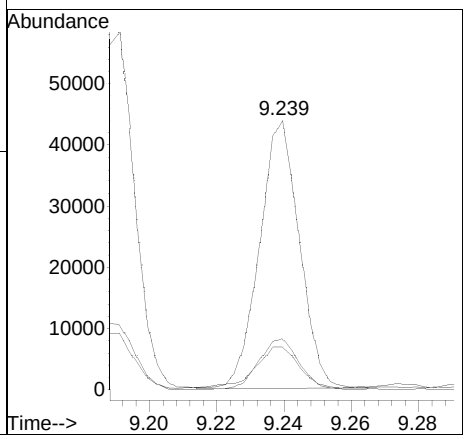


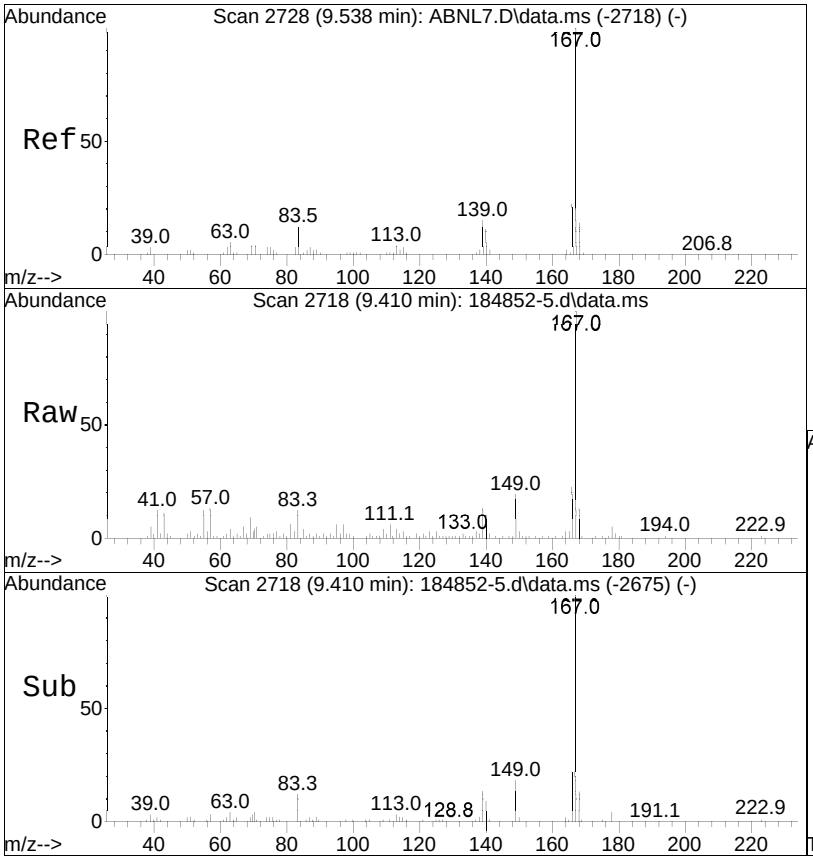


#89
Anthracene
Concen: 6.58 ug/ml
RT: 9.239 min Scan# 2658
Delta R.T. -0.003 min
Lab File: 184852-5.d
Acq: 9 Dec 2018 10:37 pm

Tgt Ion:178 Resp: 35893

Ion	Ratio	Lower	Upper
178	100		
179	17.1	12.1	18.1
176	19.4	14.8	22.2

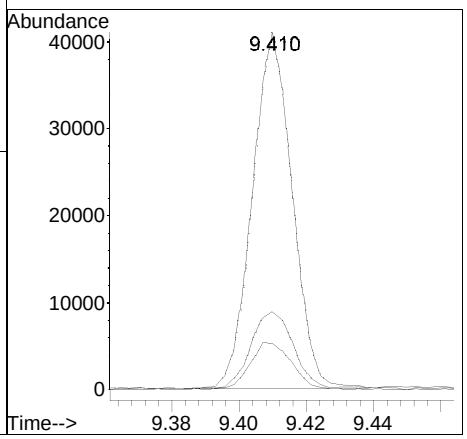


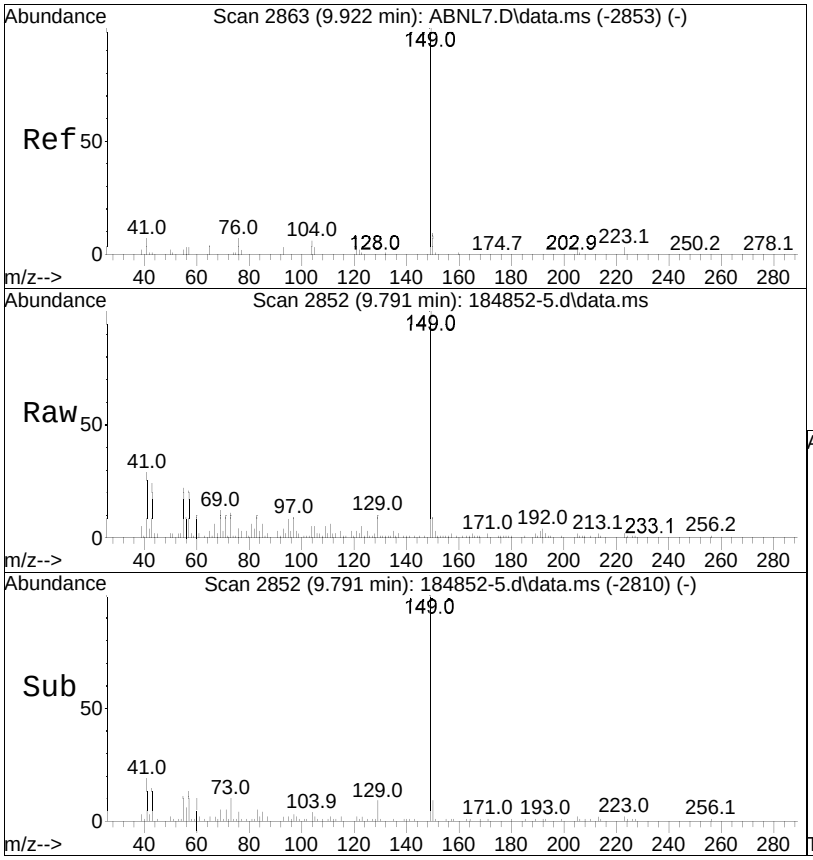


#90
Carbazole
Concen: 6.59 ug/ml
RT: 9.410 min Scan# 2718
Delta R.T. -0.003 min
Lab File: 184852-5.d
Acq: 9 Dec 2018 10:37 pm

Tgt Ion:167 Resp: 33330

Ion	Ratio	Lower	Upper
167	100		
168	14.3	10.6	15.8
166	22.5	17.7	26.5

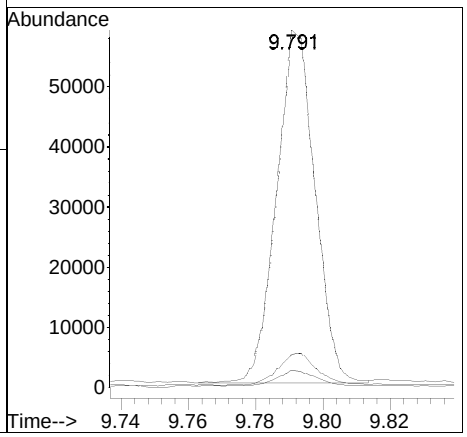


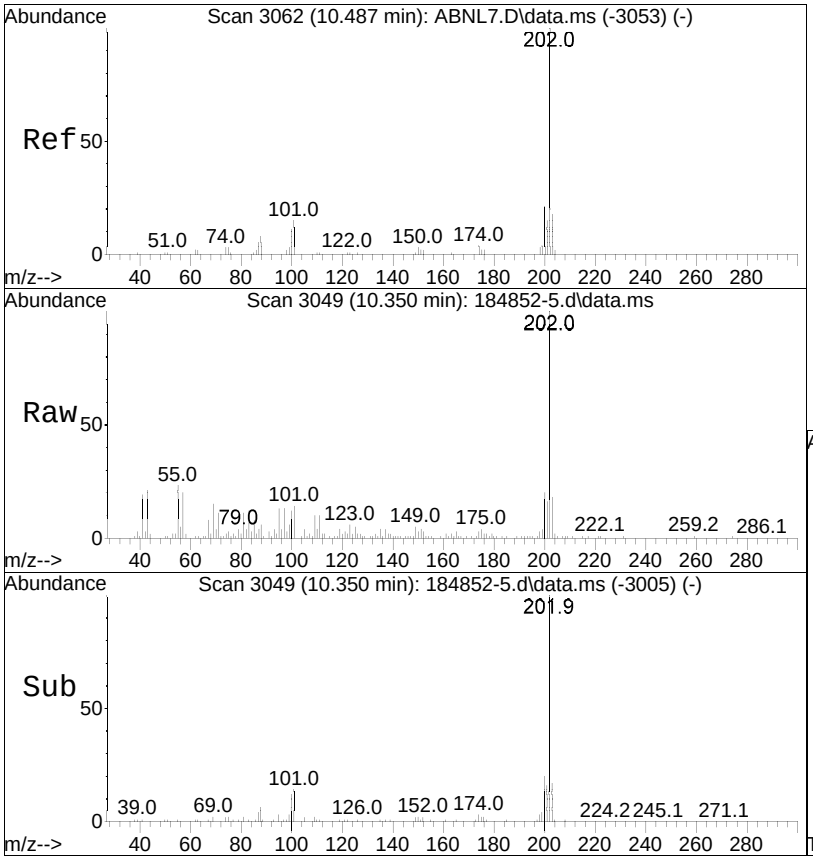


#91
Di-n-butylphthalate
Concen: 7.17 ug/ml
RT: 9.791 min Scan# 2852
Delta R.T. -0.006 min
Lab File: 184852-5.d
Acq: 9 Dec 2018 10:37 pm

Tgt Ion:149 Resp: 46425

Ion	Ratio	Lower	Upper
149	100		
150	9.6	7.4	11.0
104	4.7	4.2	6.2

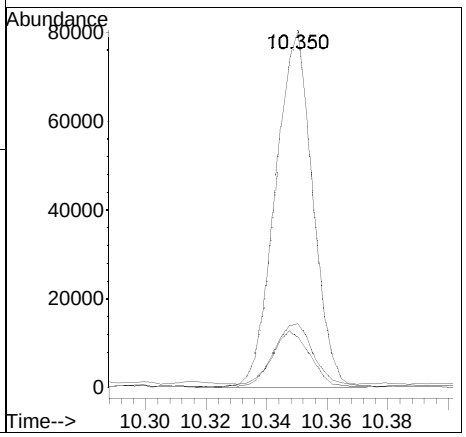


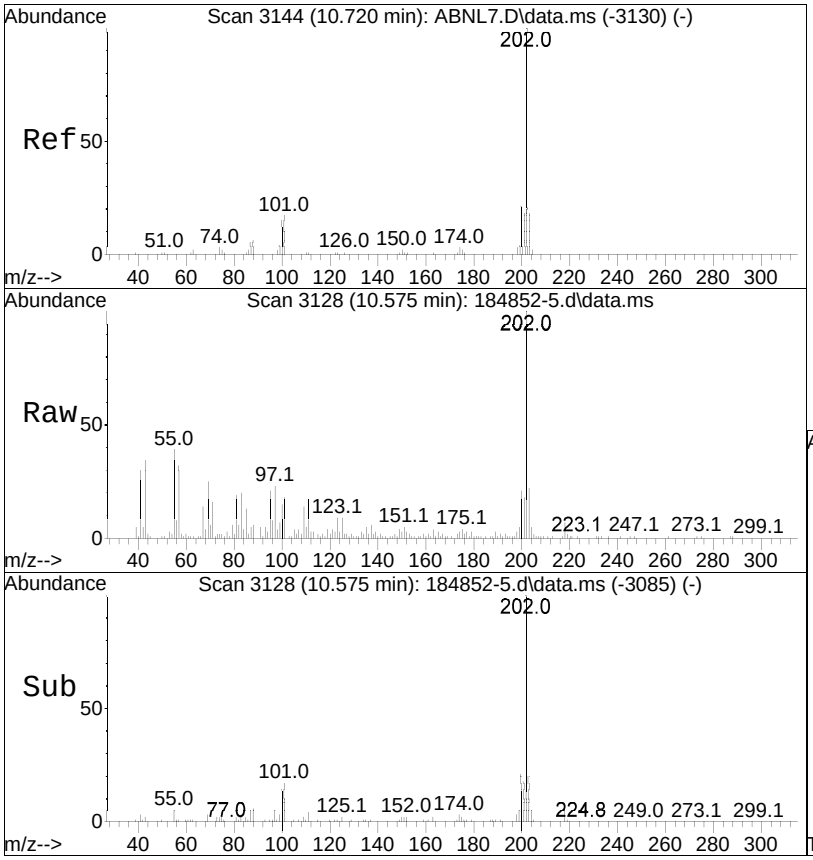


#92
Fluoranthene
Concen: 12.64 ug/ml
RT: 10.350 min Scan# 3049
Delta R.T. 0.000 min
Lab File: 184852-5.d
Acq: 9 Dec 2018 10:37 pm

Tgt Ion:202 Resp: 67937

Ion	Ratio	Lower	Upper
202	100		
101	16.3	11.4	17.0
203	17.1	13.9	20.9

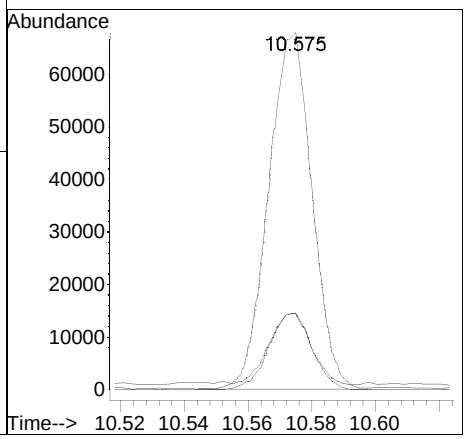


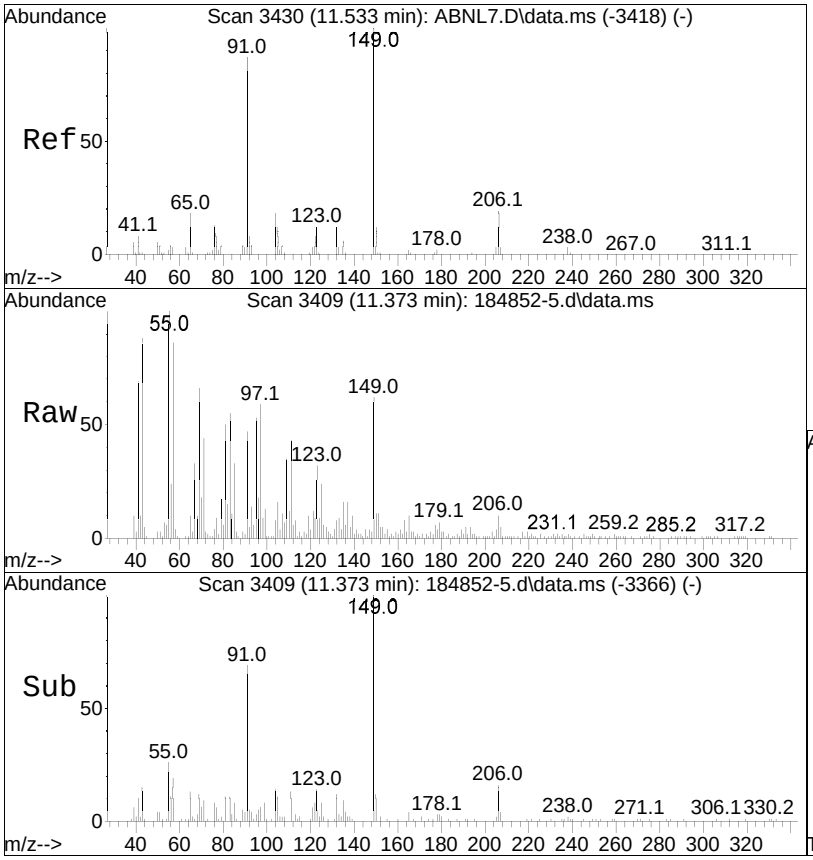


#94
Pyrene
Concen: 11.36 ug/ml
RT: 10.575 min Scan# 3128
Delta R.T. -0.003 min
Lab File: 184852-5.d
Acq: 9 Dec 2018 10:37 pm

Tgt Ion:202 Resp: 63263

Ion	Ratio	Lower	Upper
202	100		
200	21.7	17.0	25.4
203	19.9	14.2	21.2

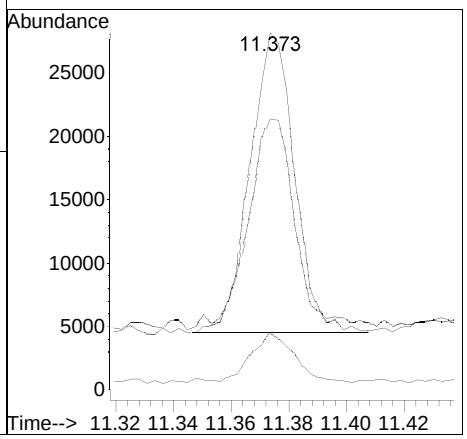


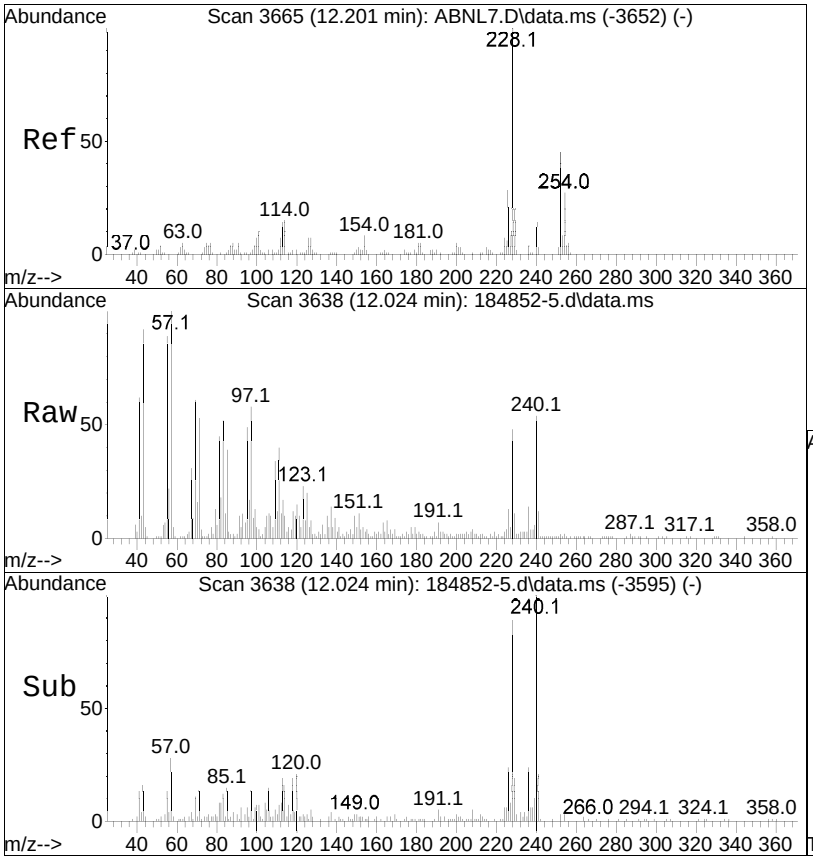


#96
Butyl benzyl phthalate
Concen: 8.85 ug/ml
RT: 11.373 min Scan# 3409
Delta R.T. -0.003 min
Lab File: 184852-5.d
Acq: 9 Dec 2018 10:37 pm

Tgt Ion:149 Resp: 25387

Ion	Ratio	Lower	Upper
149	100		
91	74.3	61.2	91.8
206	16.4	12.5	18.7

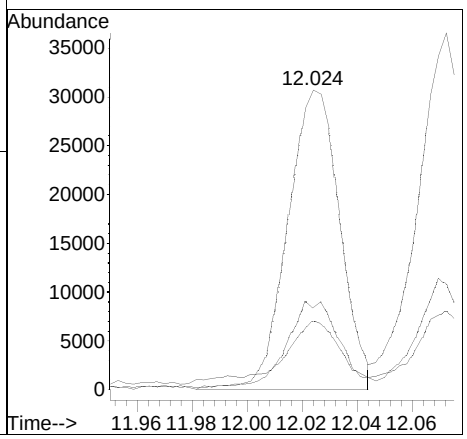


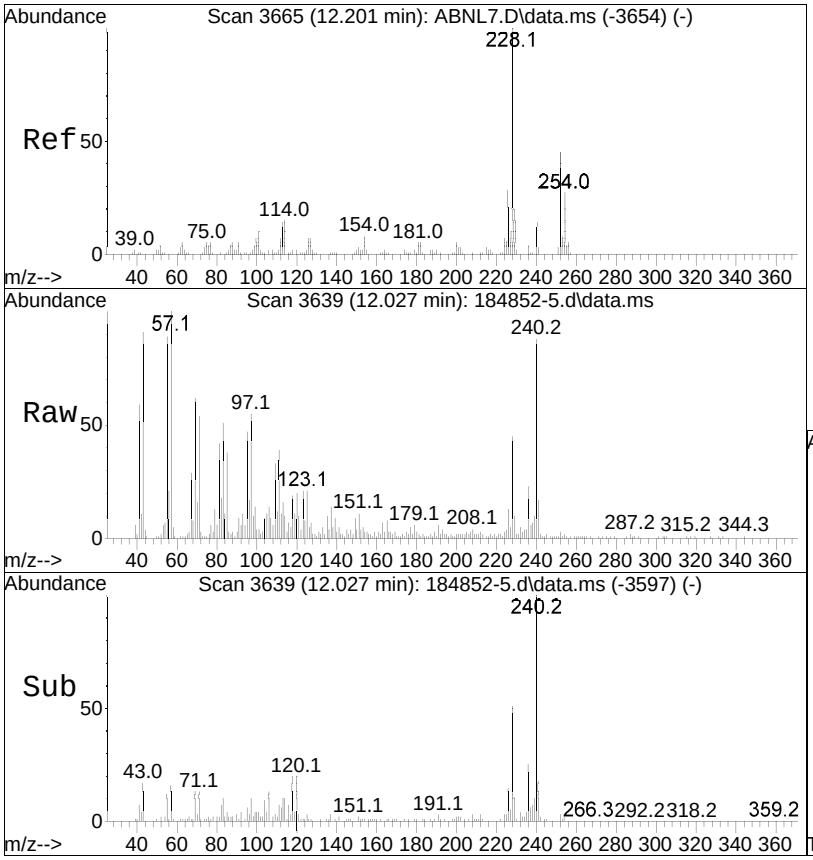


#104
Benzo(a)anthracene
Concen: 8.54 ug/ml
RT: 12.024 min Scan# 3638
Delta R.T. -0.003 min
Lab File: 184852-5.d
Acq: 9 Dec 2018 10:37 pm

Tgt Ion:228 Resp: 40349

Ion	Ratio	Lower	Upper
228	100		
226	29.0	22.2	33.2
229	23.5	15.6	23.4#

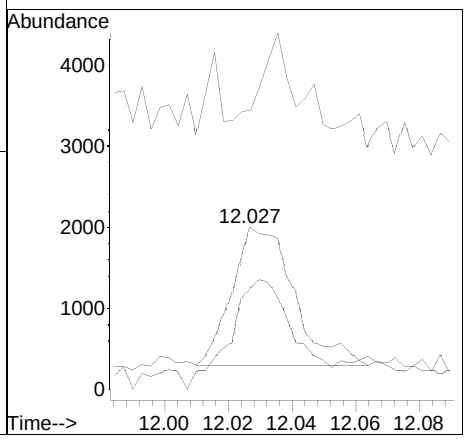


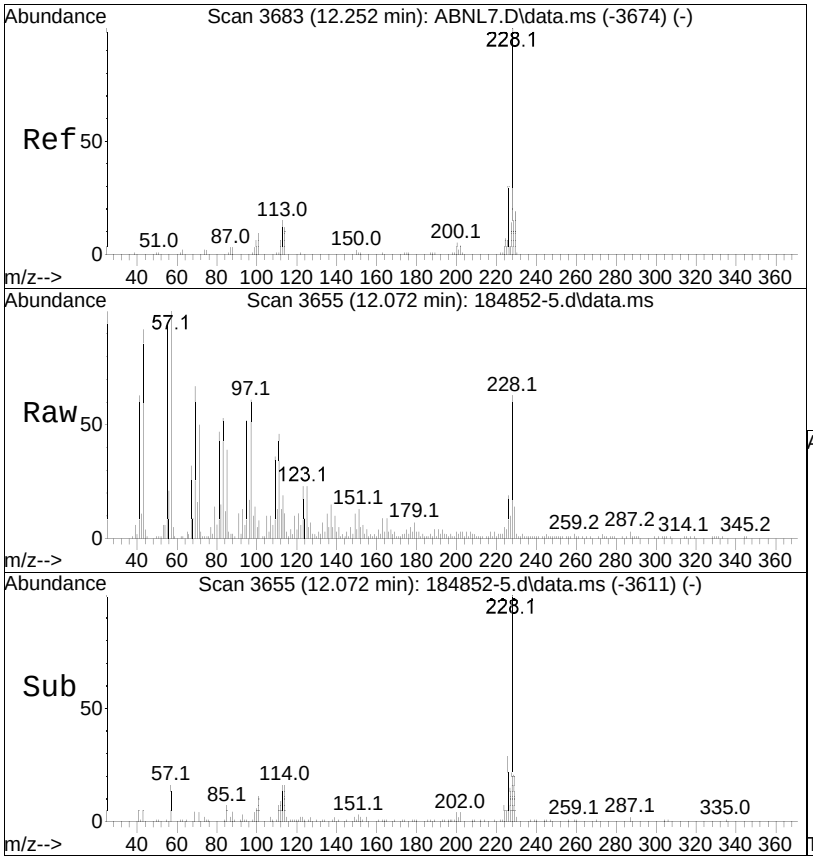


#105
3,3'-Dichlorobenzidine
Concen: 1.32 ug/ml
RT: 12.027 min Scan# 3639
Delta R.T. -0.006 min
Lab File: 184852-5.d
Acq: 9 Dec 2018 10:37 pm

Tgt Ion:252 Resp: 2266

Ion	Ratio	Lower	Upper
252	100		
126	0.0	13.8	20.6#
254	84.6	53.0	79.6#

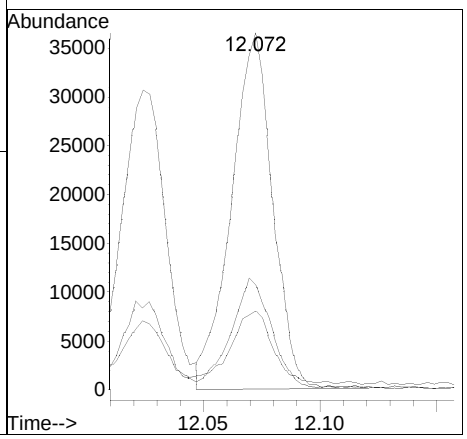


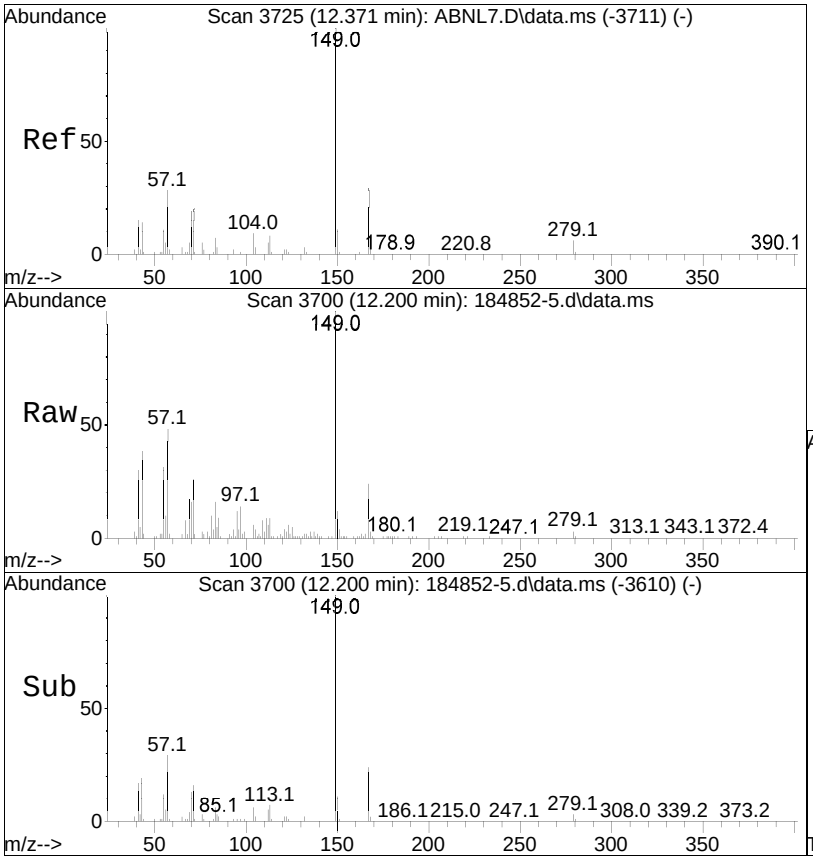


#106
Chrysene
Concen: 10.05 ug/ml
RT: 12.072 min Scan# 3655
Delta R.T. 0.000 min
Lab File: 184852-5.d
Acq: 9 Dec 2018 10:37 pm

Tgt Ion:228 Resp: 44871

Ion	Ratio	Lower	Upper
228	100		
226	29.6	24.6	37.0
229	21.0	15.8	23.6

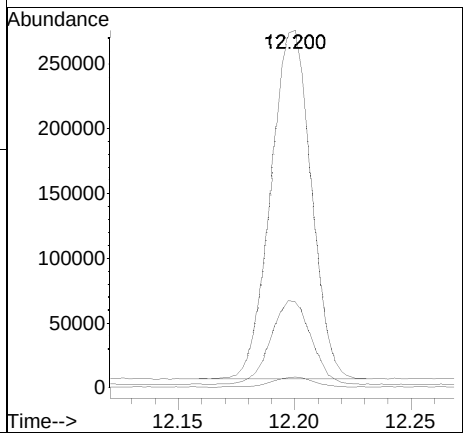


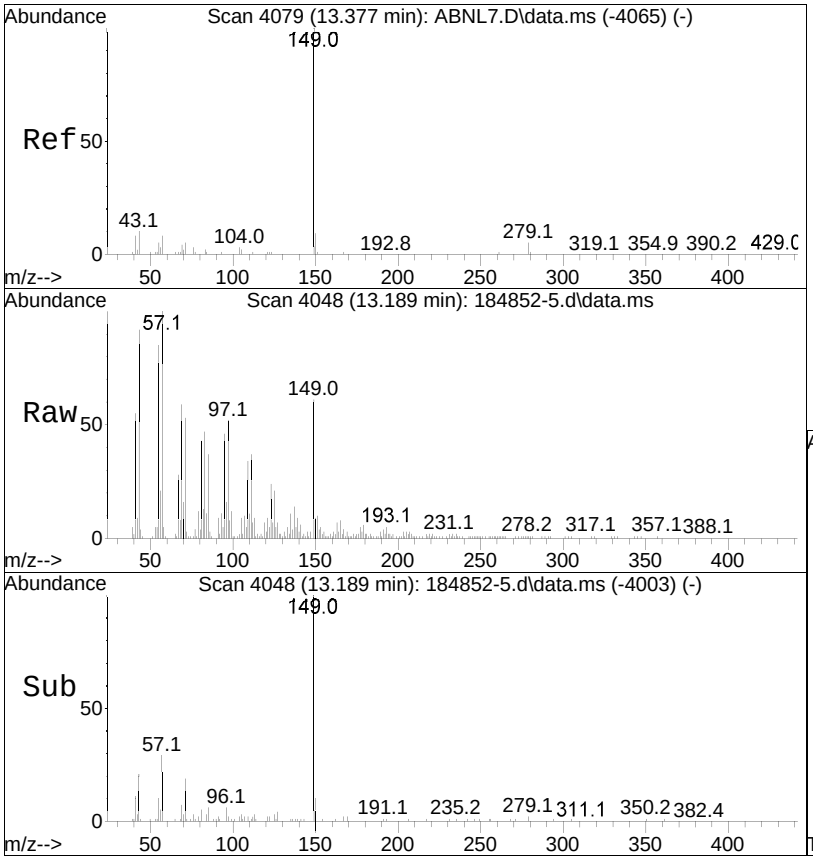


#107
Bis(2-ethylhexyl)phthalate
Concen: 86.82 ug/ml
RT: 12.200 min Scan# 3700
Delta R.T. 0.006 min
Lab File: 184852-5.d
Acq: 9 Dec 2018 10:37 pm

Tgt Ion:149 Resp: 324035

Ion	Ratio	Lower	Upper
149	100		
167	24.3	19.4	29.0
279	3.0	2.3	3.5

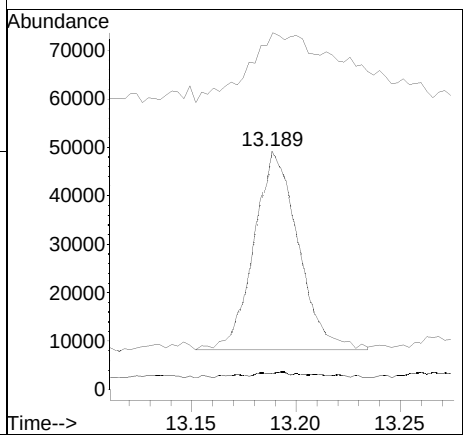


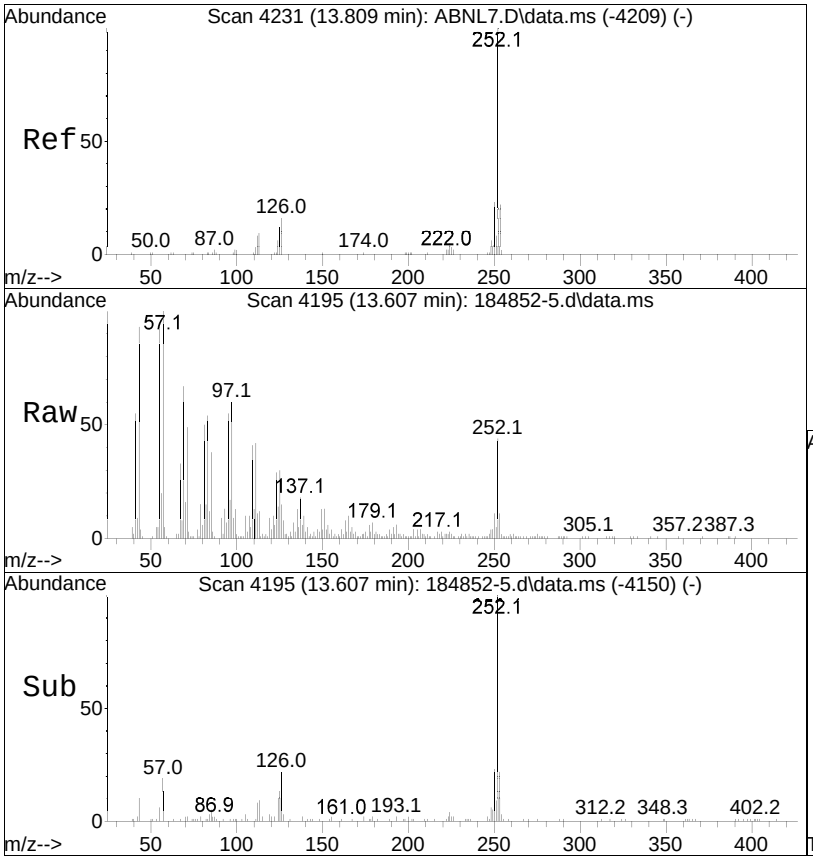


#108
Di-n-octylphthalate
Concen: 9.25 ug/ml
RT: 13.189 min Scan# 4048
Delta R.T. 0.003 min
Lab File: 184852-5.d
Acq: 9 Dec 2018 10:37 pm

Tgt Ion:149 Resp: 59725

Ion	Ratio	Lower	Upper
149	100		
43	30.4	10.1	15.1#
167	1.8	1.1	1.7#

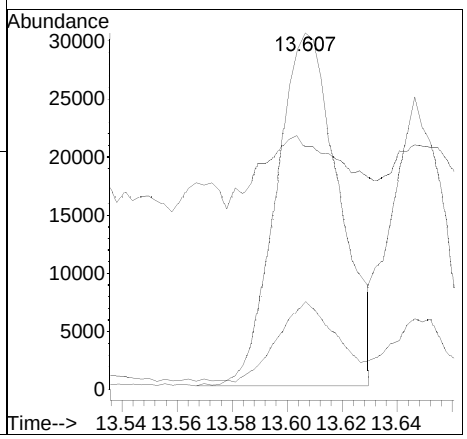


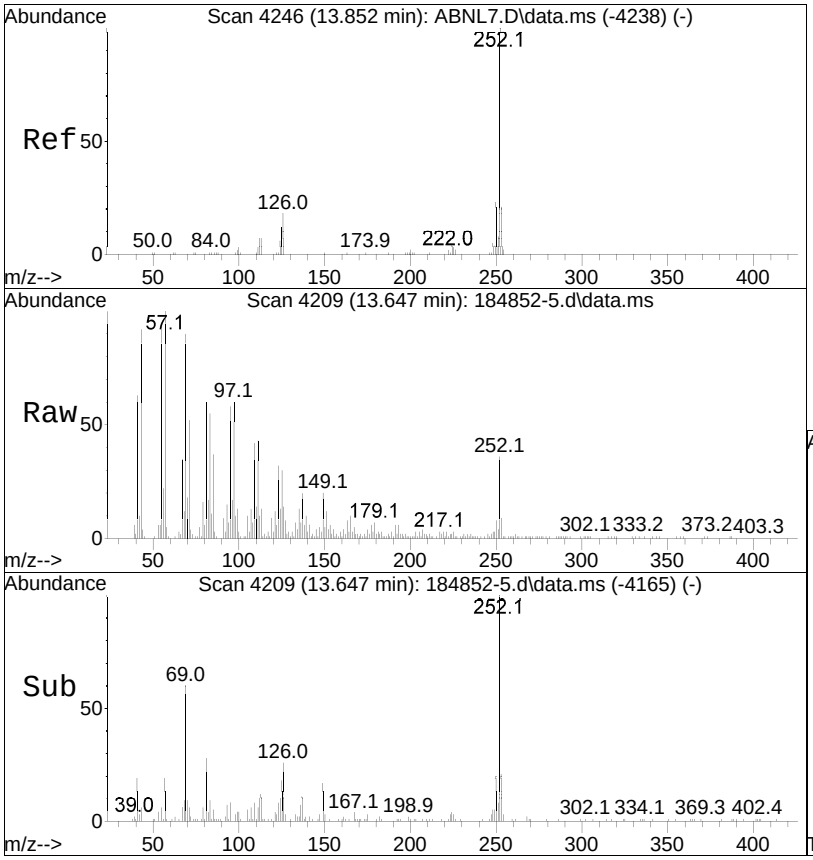


#109
Benzo(b)fluoranthene
Concen: 11.21 ug/ml
RT: 13.607 min Scan# 4195
Delta R.T. 0.003 min
Lab File: 184852-5.d
Acq: 9 Dec 2018 10:37 pm

Tgt Ion:252 Resp: 48499

Ion	Ratio	Lower	Upper
252	100		
125	26.4	11.6	17.4#
253	20.5	17.4	26.0

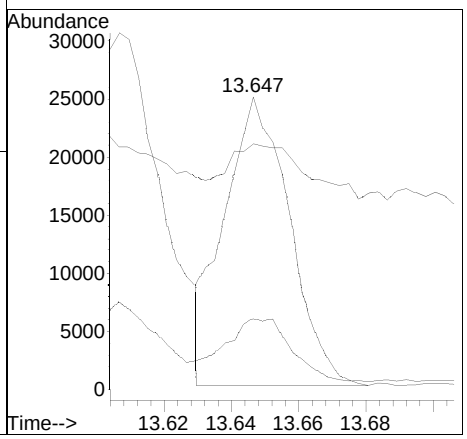


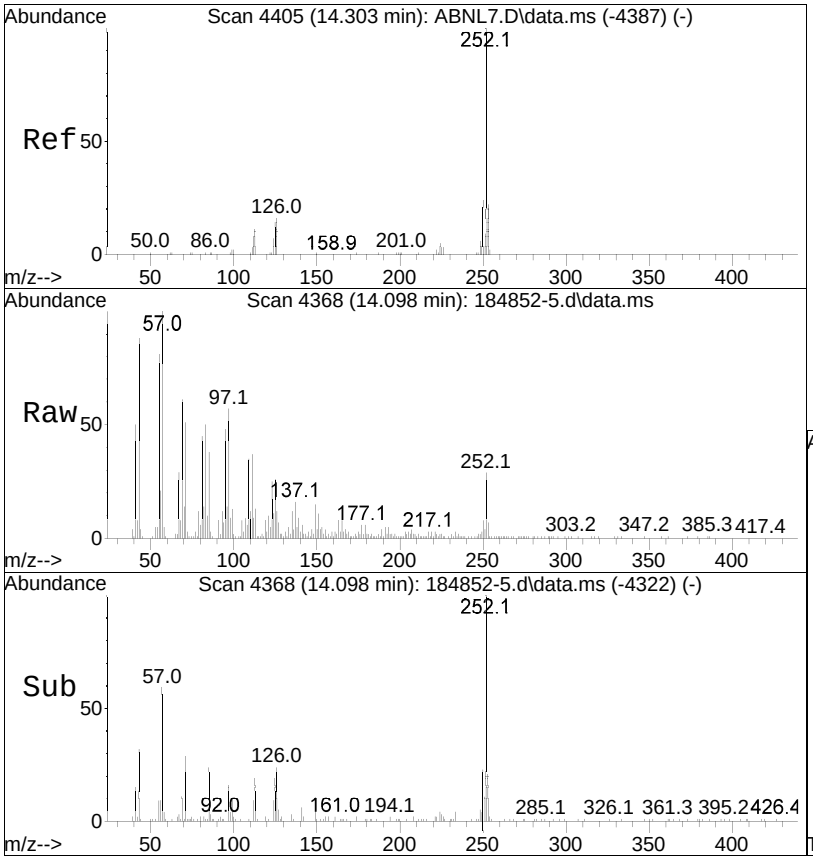


#110
Benzo(k)fluoranthene
Concen: 7.74 ug/ml
RT: 13.647 min Scan# 4209
Delta R.T. 0.000 min
Lab File: 184852-5.d
Acq: 9 Dec 2018 10:37 pm

Tgt Ion:252 Resp: 33614

Ion	Ratio	Lower	Upper
252	100		
125	24.6	11.4	17.0#
253	22.7	17.2	25.8

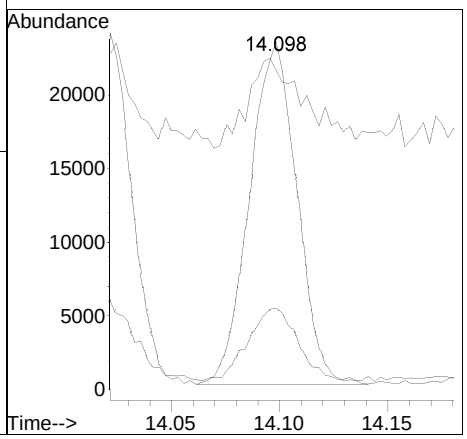


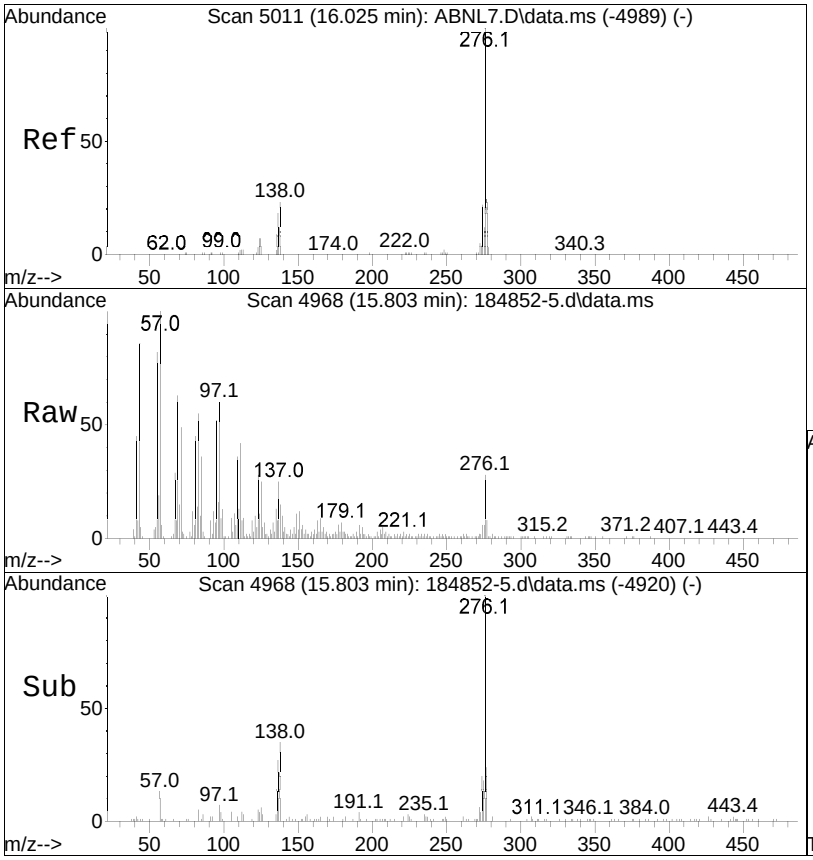


#111
Benzo(a)pyrene
Concen: 8.46 ug/ml
RT: 14.098 min Scan# 4368
Delta R.T. 0.006 min
Lab File: 184852-5.d
Acq: 9 Dec 2018 10:37 pm

Tgt Ion:252 Resp: 35480

Ion	Ratio	Lower	Upper
252	100		
125	27.9	12.6	18.8#
253	22.5	16.9	25.3

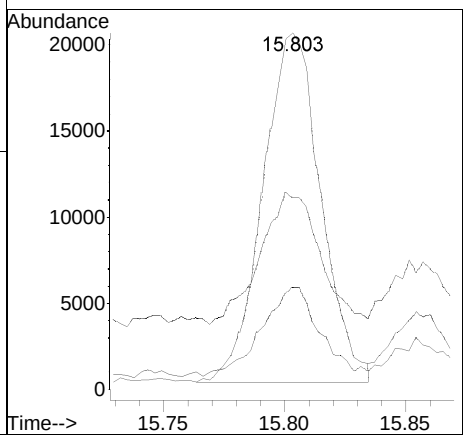


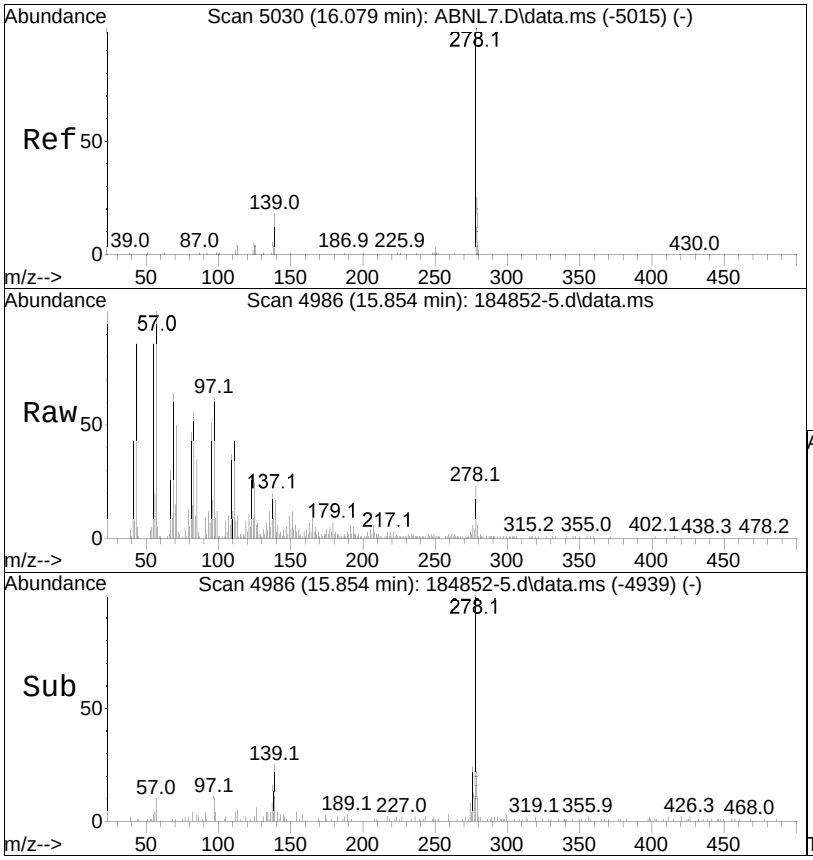


#113
Indeno(1,2,3-cd)pyrene
Concen: 8.08 ug/mL
RT: 15.803 min Scan# 4968
Delta R.T. 0.011 min
Lab File: 184852-5.d
Acq: 9 Dec 2018 10:37 pm

Tgt Ion:276 Resp: 33650

Ion	Ratio	Lower	Upper
276	100		
138	38.8	21.4	32.0#
277	25.6	19.2	28.8

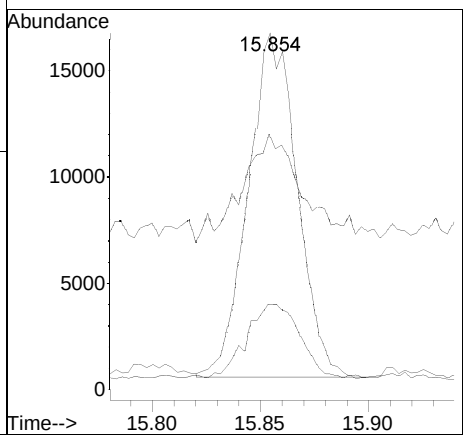


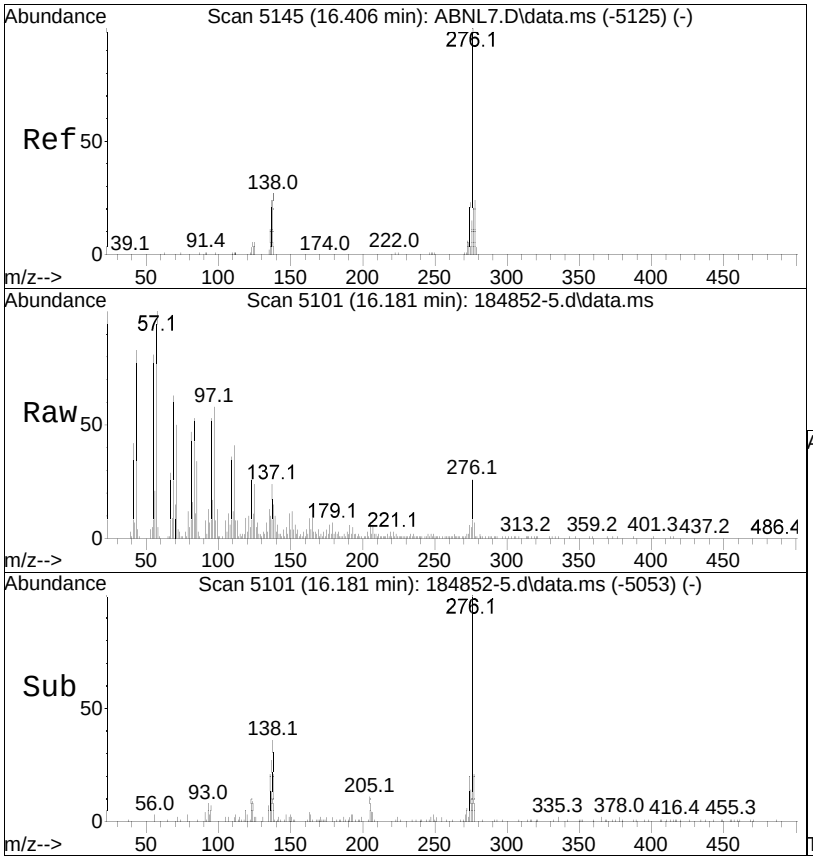


#114
Dibenzo(a,h)anthracene
Concen: 5.96 ug/ml
RT: 15.854 min Scan# 4986
Delta R.T. 0.009 min
Lab File: 184852-5.d
Acq: 9 Dec 2018 10:37 pm

Tgt Ion:278 Resp: 25327

Ion	Ratio	Lower	Upper
278	100		
139	35.0	17.1	25.7#
279	23.4	19.3	28.9

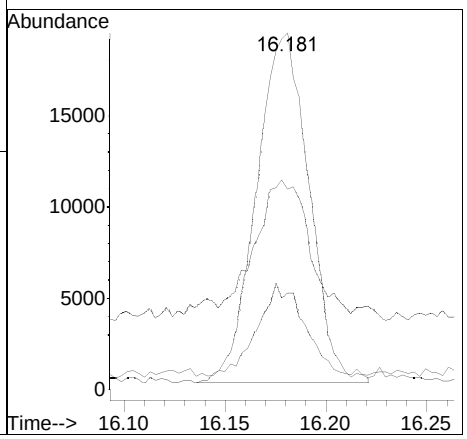




#115
Benzo(ghi)perylene
Concen: 7.80 ug/ml
RT: 16.181 min Scan# 5101
Delta R.T. 0.011 min
Lab File: 184852-5.d
Acq: 9 Dec 2018 10:37 pm

Tgt Ion:276 Resp: 34428

Ion	Ratio	Lower	Upper
276	100		
138	37.9	23.0	34.4#
277	23.7	18.6	28.0



Calculation of Semi Volatile Organic Compounds

Aqueous Concentration Formula: Amt * DF * 1000 * (1/Vo) * Vf

Where:
DF = Dilution Factor
Vo = Volume of Sample (mL)
Vf = Extraction Lab Final Volume (mL)

Soil Concentration Formula: Amt * DF * 1000 * (1/Wt) * Vf * (100/TS)
Where:
DF = Dilution Factor
Wt = Weight of Sample (g)
Vf = Extraction Lab Final Volume (mL)
TS = Total Solids

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Dec 10 2018, 01:07 pm

Work Group: WG1184852 for Department: 2 Organic Preparation

Created: 02-DEC-18 Due: Operator: VP

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L1848966-02	BR-106 (90-102)	S	NYTCL-8270	SOIL	DONE	U	1211	1207	S0	Glass-A.25
L1849030-01	SB-01_0-1	S	NYTCL-8270	SOIL	DONE	U	1214	1207	S0	Glass-A.25
L1849030-02	SB-02_18-19	S	NYTCL-8270	SOIL	DONE	U	1214	1207	S0	Glass-A.25
L1849030-03	SB-03_15-16	S	NYTCL-8270	SOIL	DONE	U	1214	1207	S0	Glass-A.25
L1849030-04	SB-04_18-19	S	NYTCL-8270	SOIL	DONE	U	1214	1207	S0	Glass-A.25
L1849030-05	SB-05_13-14	S	NYTCL-8270	SOIL	DONE	U	1214	1207	S0	Glass-A.25
L1849049-01	SODRUM_113018	S	NYTCL-8270	SOIL	DONE	U	1214	1221	S0	Glass-A.25
L1849049-02	SODRUM_PI_113018	S	NYTCL-8270	SOIL	DONE	U	1214	1221	S0	Glass-A.25
L1849060-02	CB-02	S	NYTCL-8270	SOIL	DONE	U	1214	1207	S0	Glass-A.25
L1849060-03	CB-03	S	NYTCL-8270	SOIL	DONE	U	1214	1207	S0	Glass-A.25
L1849060-04	CB-04	S	NYTCL-8270	SOIL	DONE	U	1214	1207	S0	Glass-A.25
L1849060-05	CB-01	S	NYTCL-8270	SOIL	DONE	U	1214	1207	S0	Glass-A.25
L1849060-06	DUP-18	S	NYTCL-8270	SOIL	DONE	U	1214	1207	S0	Glass-A.25
WG1184852-1	Laboratory Method Bl	S	NYTCL-8270	SOIL	DONE	U				
WG1184852-2	Laboratory Control S	S	NYTCL-8270	SOIL	DONE	U				
WG1184852-3	LCS Duplicate	S	NYTCL-8270	SOIL	DONE	U				
WG1184852-4	Matrix Spike	S	NYTCL-8270	SOIL	DONE	U				
WG1184852-5	Matrix Spike Duplica	S	NYTCL-8270	SOIL	DONE	U				

Comments:

WG1184852-3	WG1184852-2
WG1184852-4	L1849060-03
WG1184852-5	L1849060-03

Analysis log File

Total Files Reported in Log : 35
Log Generated From Directory: I:\8270\SV109\181003nical\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE INJ'D
1	Tune1.D	ABNSV109.M	Tune1	WG1164344,,	10/3/2018 9:18 pm
2	ABNL10.D	ABNSV109.M	IL1,32,,ABNL200 Lot# 75	WG1164344,,	10/3/2018 9:43 pm
3	ABNL9.D	ABNSV109.M	IL2,32,,ABNL150 Lot# 75	WG1164344,,	10/3/2018 10:09 pm
4	ABNL8.D	ABNSV109.M	IL3,32,,ABNL100 Lot# 75	WG1164344,,	10/3/2018 10:34 pm
5	ABNL7.D	ABNSV109.M	IL4,32,,ABNL50 Lot# 758	WG1164344,,	10/3/2018 10:59 pm
6	ABNL6.D	ABNSV109.M	IL5,32,,ABNL20 Lot# 757	WG1164344,,	10/3/2018 11:25 pm
7	ABNL5.D	ABNSV109.M	IL6,32,,ABNL10 Lot# 757	WG1164344,,	10/3/2018 11:50 pm
8	ABNL3.D	ABNSV109.M	IL8,32,,ABNL3 Lot# 7576	WG1164344,,	10/4/2018 12:40 am
9	ABNL4.D	ABNSV109.M	IL7,32,,ABNL5 Lot# 7577	WG1164344,,	10/4/2018 12:15 am
10	ABNL2.D	ABNSV109.M	IL9,32,,ABNL2 Lot# 7575	WG1164344,,	10/4/2018 1:06 am
11	ABNL1.D	ABNSV109.M	IL10,32,,ABNL1 Lot# 757	WG1164344,,	10/4/2018 1:31 am
12	AP9L10.D	ABNSV109.M	IL11,32,,AP9L200 Lot# 7	WG1164344,,	10/4/2018 1:56 am
13	AP9L9.D	ABNSV109.M	IL12,32,,AP9L150 Lot# 7	WG1164344,,	10/4/2018 2:22 am
14	AP9L8.D	ABNSV109.M	IL13,32,,AP9L100 Lot# 7	WG1164344,,	10/4/2018 2:47 am
15	AP9L7.D	ABNSV109.M	IL14,32,,AP9L50 Lot# 75	WG1164344,,	10/4/2018 3:12 am
16	AP9L6.D	ABNSV109.M	IL15,32,,AP9L20 Lot# 75	WG1164344,,	10/4/2018 3:37 am
17	AP9L5.D	ABNSV109.M	IL16,32,,AP9L10 Lot# 75	WG1164344,,	10/4/2018 4:02 am
18	AP9L4.D	ABNSV109.M	IL17,32,,AP9L5 Lot# 758	WG1164344,,	10/4/2018 4:28 am
19	AP9L3.D	ABNSV109.M	IL18,32,,AP9L3 Lot# 758	WG1164344,,	10/4/2018 4:53 am
20	AP9L2.D	ABNSV109.M	IL19,32,,AP9L2 Lot# 758	WG1164344,,	10/4/2018 5:18 am
21	AP9L1.D	ABNSV109.M	IL20,32,,AP9L1 Lot# 758	WG1164344,,	10/4/2018 5:43 am
22	ABNICV.D	ABNSV109.M	CQICV1,32,,ABNICV Lot#	WG1164344,,	10/4/2018 6:09 am
23	AP9ICV.D	ABNSV109.M	CQICV2,32,,AP9ICV Lot#	WG1164344,,	10/4/2018 6:34 am
24	Tune2.D	ABNSV109.M	Tune2	WG1164344,,	10/4/2018 6:59 am
25	ADPL10.D	ABNSV109.M	IL21,32,,ADPL200 Lot# 7	WG1164344,,	10/4/2018 7:24 am
26	ADPL9.D	ABNSV109.M	IL22,32,,ADPL150 Lot# 7	WG1164344,,	10/4/2018 7:50 am
27	ADPL8.D	ABNSV109.M	IL23,32,,ADPL100 Lot# 7	WG1164344,,	10/4/2018 8:15 am
28	ADPL7.D	ABNSV109.M	IL24,32,,ADPL50 Lot# 76	WG1164344,,	10/4/2018 8:40 am
29	ADPL6.D	ABNSV109.M	IL25,32,,ADPL20 Lot# 76	WG1164344,,	10/4/2018 9:05 am
30	ADPL5.D	ABNSV109.M	IL26,32,,ADPL10 Lot# 76	WG1164344,,	10/4/2018 9:30 am
31	ADPL4.D	ABNSV109.M	IL27,32,,ADPL5 Lot# 760	WG1164344,,	10/4/2018 9:56 am
32	ADPL3.D	ABNSV109.M	IL28,32,,ADPL3 Lot# 759	WG1164344,,	10/4/2018 10:21 am
33	ADPL2.D	ABNSV109.M	IL29,32,,ADPL2 Lot# 759	WG1164344,,	10/4/2018 10:46 am
34	ADPL1.D	ABNSV109.M	IL29,32,,ADPL1 Lot# 759	WG1164344,,	10/4/2018 11:11 am
35	ADPICV.D	ABNSV109.M	CQICV3,32,,ADPICV Lot#	WG1164344,,	10/4/2018 11:37 am

SeqLog 1.0 - (c) 2009 Abacus Database Applications

Analysis log File

Total Files Reported in Log : 48
Log Generated From Directory: I:\8270\SV103\181204nical\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE INJ'D
1	Tune1.d	ABN-SV103.M	Tune1	wg1186012,,	12/4/2018 11:44 pm
2	ABNL9.d	ABN-SV103.M	IL2,32,,ABNL150 Lot#779	wg1186012,,	12/5/2018 12:35 am
3	ABNL10.d	ABN-SV103.M	IL1,32,,ABNL200 Lot#778	wg1186012,,	12/5/2018 12:09 am
4	ABNL8.d	ABN-SV103.M	IL3,32,,ABNL100 Lot#779	wg1186012,,	12/5/2018 1:00 am
5	ABNL7.d	ABN-SV103.M	IL4,32,,ABNL50 Lot#7795	wg1186012,,	12/5/2018 1:26 am
6	ABNL6.d	ABN-SV103.M	IL5,32,,ABNL20 Lot#7794	wg1186012,,	12/5/2018 1:51 am
7	ABNL5.d	ABN-SV103.M	IL6,32,,ABNL10 Lot#7793	wg1186012,,	12/5/2018 2:16 am
8	ABNL4.d	ABN-SV103.M	IL7,32,,ABNL5 Lot#7792	wg1186012,,	12/5/2018 2:42 am
9	ABNL3.d	ABN-SV103.M	IL8,32,,ABNL3 Lot#7791	wg1186012,,	12/5/2018 3:07 am
10	ABNL2.d	ABN-SV103.M	IL9,32,,ABNL2 Lot#7790	wg1186012,,	12/5/2018 3:33 am
11	ABNL1.d	ABN-SV103.M	IL10,32,,ABNL1 Lot#7789	wg1186012,,	12/5/2018 3:58 am
12	AP9L10.d	ABN-SV103.M	IL11,32,,AP9L200 Lot#77	wg1186012,,	12/5/2018 4:23 am
13	AP9L9.d	ABN-SV103.M	IL12,32,,AP9L150 Lot#78	wg1186012,,	12/5/2018 4:49 am
14	AP9L8.d	ABN-SV103.M	IL13,32,,AP9L100 Lot#78	wg1186012,,	12/5/2018 5:14 am
15	AP9L7.d	ABN-SV103.M	IL14,32,,AP9L50 Lot#780	wg1186012,,	12/5/2018 5:39 am
16	AP9L6.d	ABN-SV103.M	IL15,32,,AP9L20 Lot#780	wg1186012,,	12/5/2018 6:05 am
17	AP9L5.d	ABN-SV103.M	IL16,32,,AP9L10 Lot#780	wg1186012,,	12/5/2018 6:30 am
18	AP9L4.d	ABN-SV103.M	IL17,32,,AP9L5 Lot#7803	wg1186012,,	12/5/2018 6:56 am
19	AP9L3.d	ABN-SV103.M	IL18,32,,AP9L3 Lot#7802	wg1186012,,	12/5/2018 7:22 am
20	AP9L2.d	ABN-SV103.M	IL19,32,,AP9L2 Lot#7801	wg1186012,,	12/5/2018 7:48 am
21	AP9L1.d	ABN-SV103.M	IL20,32,,AP9L1 Lot#7800	wg1186012,,	12/5/2018 8:14 am
22	ABNICV.d	ABN-SV103.M	CQICV1,32,,ABN ICV Lot#	wg1186012,,	12/5/2018 8:39 am
23	AP9ICV.d	ABN-SV103.M	CQICV2,32,,AP9 ICV Lot#	wg1186012,,	12/5/2018 9:05 am
24	Tune2.d	ABN-SV103.M	Tune2	wg1186012,,	12/5/2018 9:32 am
25	ADPL10.d	ABN-SV103.M	IL21,32,,ADPL200 Lot#78	wg1186012,,	12/5/2018 9:58 am
26	ADPL9.d	ABN-SV103.M	IL22,32,,ADPL150 Lot#78	wg1186012,,	12/5/2018 10:24 am
27	ADPL8.d	ABN-SV103.M	IL23,32,,ADPL100 Lot#78	wg1186012,,	12/5/2018 10:50 am
28	ADPL7.d	ABN-SV103.M	IL24,32,,ADPL50 Lot#781	wg1186012,,	12/5/2018 11:15 am
29	ADPL6.d	ABN-SV103.M	IL25,32,,ADPL20 Lot#781	wg1186012,,	12/5/2018 11:41 am
30	ADPL5.d	ABN-SV103.M	IL26,32,,ADPL10 Lot#781	wg1186012,,	12/5/2018 12:06 pm
31	ADPL4.d	ABN-SV103.M	IL27,32,,ADPL5 Lot#7814	wg1186012,,	12/5/2018 12:31 pm
32	ADPL3.d	ABN-SV103.M	IL28,32,,ADPL3 Lot#7813	wg1186012,,	12/5/2018 12:57 pm
33	ADPL2.d	ABN-SV103.M	IL29,32,,ADPL2 Lot#7812	wg1186012,,	12/5/2018 1:22 pm
34	ADPL1.d	ABN-SV103.M	IL30,32,,ADPL1 Lot#7811	wg1186012,,	12/5/2018 1:48 pm
35	ADPICV.d	ABN-SV103.M	CQICV3,32,,ADP ICV Lot#	wg1186012,,	12/5/2018 2:13 pm
36	Tune3.d	ABN-SV103.M	Tune3	wg1186012,,	12/5/2018 7:18 pm
37	Tune3a.d	ABN-SV103.M	Tune3	wg1186012,,	12/5/2018 7:59 pm
38	ADPL10r.d	ABN-SV103.M	IL21,32,,ADPL200 Lot#78	wg1186012,,	12/5/2018 8:24 pm
39	ADPL9r.d	ABN-SV103.M	IL22,32,,ADPL150 Lot#78	wg1186012,,	12/5/2018 8:49 pm
40	ADPL8r.d	ABN-SV103.M	IL23,32,,ADPL100 Lot#78	wg1186012,,	12/5/2018 9:15 pm
41	ADPL7r.d	ABN-SV103.M	IL24,32,,ADPL50 Lot#781	wg1186012,,	12/5/2018 9:41 pm
42	ADPL6r.d	ABN-SV103.M	IL25,32,,ADPL20 Lot#781	wg1186012,,	12/5/2018 10:06 pm
43	ADPL5r.d	ABN-SV103.M	IL26,32,,ADPL10 Lot#781	wg1186012,,	12/5/2018 10:32 pm
44	ADPL4r.d	ABN-SV103.M	IL27,32,,ADPL5 Lot#7814	wg1186012,,	12/5/2018 10:57 pm
45	ADPL3r.d	ABN-SV103.M	IL28,32,,ADPL3 Lot#7813	wg1186012,,	12/5/2018 11:23 pm
46	ADPL2r.d	ABN-SV103.M	IL29,32,,ADPL2 Lot#7812	wg1186012,,	12/5/2018 11:48 pm
47	ADPL1r.d	ABN-SV103.M	IL30,32,,ADPL1 Lot#7811	wg1186012,,	12/6/2018 12:14 am
48	ADPICVr.d	ABN-SV103.M	CQICV3,32,,ADP ICV Lot#	wg1186012,,	12/6/2018 12:39 am

SeqLog 1.0 - (c) 2009 Abacus Database Applications

Analysis log File

Total Files Reported in Log : 35
Log Generated From Directory: I:\8270\SV112\181205ical\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE INJ'D
1	Tune 1.D	8270.M	Tune1	WG1186464,,	12/5/2018 7:52 pm
2	ABNL10.D	8270.M	IL1,32,,ABNL200 Lot#778	WG1186464,,	12/5/2018 8:17 pm
3	ABNL9.D	8270.M	IL2,32,,ABNL150 Lot#779	WG1186464,,	12/5/2018 8:43 pm
4	ABNL8.D	8270.M	IL3,32,,ABNL100 Lot#779	WG1186464,,	12/5/2018 9:08 pm
5	ABNL7.D	8270.M	IL4,32,,ABNL50 Lot#7795	WG1186464,,	12/5/2018 9:34 pm
6	ABNL6.D	8270.M	IL5,32,,ABNL20 Lot#7794	WG1186464,,	12/5/2018 9:59 pm
7	ABNL5.D	8270.M	IL6,32,,ABNL10 Lot#7793	WG1186464,,	12/5/2018 10:24 pm
8	ABNL4.D	8270.M	IL7,32,,ABNL5 Lot#7792	WG1186464,,	12/5/2018 10:50 pm
9	ABNL3.D	8270.M	IL8,32,,ABNL3 Lot#7791	WG1186464,,	12/5/2018 11:15 pm
10	ABNL2.D	8270.M	IL9,32,,ABNL2 Lot#7790	WG1186464,,	12/5/2018 11:41 pm
11	ABNL1.D	8270.M	IL10,32,,ABNL1 Lot#7789	WG1186464,,	12/6/2018 12:06 am
12	AP9L10.D	8270.M	IL11,32,,AP9L200 Lot#77	WG1186464,,	12/6/2018 12:32 am
13	AP9L9.D	8270.M	IL12,32,,AP9L150 Lot#78	WG1186464,,	12/6/2018 12:58 am
14	AP9L8.D	8270.M	IL13,32,,AP9L100 Lot#78	WG1186464,,	12/6/2018 1:23 am
15	AP9L7.D	8270.M	IL14,32,,AP9L50 Lot#780	WG1186464,,	12/6/2018 1:49 am
16	AP9L6.D	8270.M	IL15,32,,AP9L20 Lot#780	WG1186464,,	12/6/2018 2:14 am
17	AP9L5.D	8270.M	IL16,32,,AP9L10 Lot#780	WG1186464,,	12/6/2018 2:40 am
18	AP9L4.D	8270.M	IL17,32,,AP9L5 Lot#7803	WG1186464,,	12/6/2018 3:05 am
19	AP9L3.D	8270.M	IL18,32,,AP9L3 Lot#7802	WG1186464,,	12/6/2018 3:31 am
20	AP9L2.D	8270.M	IL19,32,,AP9L2 Lot#7801	WG1186464,,	12/6/2018 3:56 am
21	AP9L1.D	8270.M	IL20,32,,AP9L1 Lot#7800	WG1186464,,	12/6/2018 4:21 am
22	ABNICV.D	8270.M	CQICV1,32,,ABN ICV LOT#	WG1186464,,	12/6/2018 4:46 am
23	AP9ICV.D	8270.M	CQICV2,32,,AP9 ICV LOT#	WG1186464,,	12/6/2018 5:12 am
24	Tune 2.D	8270.M	Tune2	WG1186464,,	12/6/2018 5:37 am
25	ADPL10.D	8270.M	IL21,32,,ADPL200 Lot#78	WG1186464,,	12/6/2018 6:02 am
26	ADPL9.D	8270.M	IL22,32,,ADPL150 Lot#78	WG1186464,,	12/6/2018 6:28 am
27	ADPL8.D	8270.M	IL23,32,,ADPL100 Lot#78	WG1186464,,	12/6/2018 6:53 am
28	ADPL7.D	8270.M	IL24,32,,ADPL50 Lot#781	WG1186464,,	12/6/2018 7:19 am
29	ADPL6.D	8270.M	IL25,32,,ADPL20 Lot#781	WG1186464,,	12/6/2018 7:44 am
30	ADPL5.D	8270.M	IL26,32,,ADPL10 Lot#781	WG1186464,,	12/6/2018 8:10 am
31	ADPL4.D	8270.M	IL27,32,,ADPL5 Lot#7814	WG1186464,,	12/6/2018 8:35 am
32	ADPL3.D	8270.M	IL28,32,,ADPL3 Lot#7813	WG1186464,,	12/6/2018 9:00 am
33	ADPL2.D	8270.M	IL29,32,,ADPL2 Lot#7812	WG1186464,,	12/6/2018 9:26 am
34	ADPL1.D	8270.M	IL30,32,,ADPL1 Lot#7811	WG1186464,,	12/6/2018 9:51 am
35	ADPICV.D	8270.M	CQICV3,32,,ADP ICV LOT#	WG1186464,,	12/6/2018 10:17 am

SeqLog 1.0 - (c) 2009 Abacus Database Applications

Sequence Name: C:\msdchem\1\sequence\181205.s
Comment: sv109
Operator: sv109:
Data Path: C:\MSDCHEM\1\DATA\181205\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

On A Barcode Mismatch
(X) Inject Anyway
( ) Don't Inject

Line			Sample Name/Misc Info
1)	Sample	141	Deg1205 ABNSV109 wg-1,32,,SV109Degdft
2)	Pause		
3)	Sample	141	Deg1205a ABNSV109 wg-1,32,,SV109Degdft
4)	Pause		
5)	Sample	142	ABN1205 ABNSV109 wg-3,32,,ABN CCV Lot # 7795
6)	Sample	143	AP91205 ABNSV109 wg-4,32,,AP9 ICV Lot # 7798
7)	Sample	144	ADP1205 ABNSV109 wg-5,32,,ADP ICV Lot # 7809
8)	Sample	142	ABN1205a ABNSV109 wg-3,32,,ABN CCV Lot # 7795
9)	Sample	1	184484-1 ABNSV109 wg1184484/87-1,32,,tcl,eh
10)	Sample	2	184484-2 ABNSV109 wg1184484/87-2,32,,tcl,eh
11)	Sample	3	184484-3 ABNSV109 wg1184484/87-3,32,,tcl,eh
12)	Sample	4	185236-2 ABNSV109 wg1185236-2,32,,ny,eh
13)	Sample	5	185236-3 ABNSV109 wg1185236-3,32,,ny,eh
14)	Sample	6	184852-1 ABNSV109 wg1184852-1,32,,ny,eh
15)	Sample	7	184852-2 ABNSV109 wg1184852-2,32,,ny,eh
16)	Sample	8	184852-3 ABNSV109 wg1184852-3,32,,ny,eh
17)	Sample	9	185673-1 ABNSV109 wg1185673-1,32,,ny,eh
18)	Sample	10	185673-2 ABNSV109 wg1185673-2,32,,ny,eh
19)	Sample	11	185673-3 ABNSV109 wg1185673-3,32,,ny,eh
20)	Sample	12	185650-1 ABNSV109 wg1185650-1,32,,tclp,eh
21)	Sample	13	185650-2 ABNSV109 wg1185650-2,32,,tclp,eh
22)	Sample	14	185650-3 ABNSV109 wg1185650-3,32,,tclp,eh
23)	Sample	15	185014-1 ABNSV109 wg1185014-1,32,,ny,eh
24)	Sample	16	185014-2 ABNSV109 wg1185014-2,32,,ny,eh
25)	Sample	17	185014-3 ABNSV109 wg1185014-3,32,,ny,eh
26)	Sample	18	49056-01 ABNSV109 l1849056-01,32,,tclp,eh
27)	Sample	19	49056-02 ABNSV109 l1849056-02,32,,tclp,eh
28)	Sample	20	49056-05 ABNSV109 l1849056-05,32,,tclp,eh
29)	Sample	21	49450-01 ABNSV109 l1849450-01,32,,tclp,eh
30)	Sample	22	48763-05 ABNSV109 l1848763-05d,32,5,mcp,rv,eh

	Vial	Name	Data File	Comment	Type	Method File	Keyword
	141	wg-1,32,,SV112degdft	Deg1206	wg,wg,ical	Sample	8270.m	
					Keyword		Pause
	142	wg-3,32,,ABN CCV	ABN1206	wg,wg,ical	Sample	8270.m	
	143	wg-4,32,,AP9 CCV	AP91206	wg,wg,ical	Sample	8270.m	
	144	wg-5,32,,ADP CCV	ADP1206	wg,wg,ical	Sample	8270.m	
	1	wg1186125-1,32,,tcl,ask	186125-1	wg1186484,wg1186125,ical#####	Sample	8270.m	
	2	wg1186125-2,32,,tcl,ask	186125-2	wg1186484,wg1186125,ical#####	Sample	8270.m	
	3	wg1186125-3,32,,tcl,ask	186125-3	wg1186484,wg1186125,ical#####	Sample	8270.m	
	4	l1849143-11,32,,ny,ask	49143-11	wg1186484,wg1184908,ical#####	Sample	8270.m	
	5	l1849143-09,32,,ny,ask	49143-09	wg1186484,wg1184908,ical#####	Sample	8270.m	
	6	l1849030-01d,32,5,ny,rv,ask	49030-01	wg1186484,wg1184852,ical#####	Sample	8270.m	
	7	l1849143-10,32,,ny,ask	49143-10	wg1186484,wg1184908,ical#####	Sample	8270.m	
	8	l1849030-04d,32,5,ny,rv,ask	49030-04	wg1186484,wg1184852,ical#####	Sample	8270.m	
	9	l1849030-05d,32,5,ny,rv,ask	49030-05	wg1186484,wg1184852,ical#####	Sample	8270.m	
	10	l1849030-02d,32,5,ny,rv,ask	49030-02	wg1186484,wg1184852,ical#####	Sample	8270.m	
	11	l1849143-08,32,,ny,ask	49143-08	wg1186484,wg1184908,ical#####	Sample	8270.m	
	12	l1849030-03d,32,5,ny,rv,ask	49030-03	wg1186484,wg1184852,ical#####	Sample	8270.m	
	13	l1849143-06,32,,ny,ask	49143-06	wg1186484,wg1184908,ical#####	Sample	8270.m	
	14	l1849731-02,32,,tcl,ask	49731-02	wg1186484,wg1186125,ical#####	Sample	8270.m	
	15	l1848472-02d,32,5,ny,rv,ask	48472-02	wg1186484,wg1184737,ical#####	Sample	8270.m	
	16	l1849731-01,32,,tcl,ask	49731-01	wg1186484,wg1186125,ical#####	Sample	8270.m	
	17	l1849692-01,32,,tcl,ask	49692-01	wg1186484,wg1185673,ical#####	Sample	8270.m	
	18	wg1184852-4,32,,ny,ask	184852-4	wg1186484,wg1184852,ical#####	Sample	8270.m	
	19	wg1184852-5,32,,ny,ask	184852-5	wg1186484,wg1184852,ical#####	Sample	8270.m	
	20	l1849060-02,32,,ny,ask	49060-02	wg1186484,wg1184852,ical#####	Sample	8270.m	
	21	l1849060-03,32,,ny,ask	49060-03	wg1186484,wg1184852,ical#####	Sample	8270.m	
	22	l1849060-04,32,,ny,ask	49060-04	wg1186484,wg1184852,ical#####	Sample	8270.m	
	23	l1849060-05,32,,ny,ask	49060-05	wg1186484,wg1184852,ical#####	Sample	8270.m	
	24	l1849060-06,32,,ny,ask	49060-06	wg1186484,wg1184852,ical#####	Sample	8270.m	

Keyword String

Sequence Name: C:\msdchem\1\sequence\181207a.s
Comment: SV103
Operator: SV103:
Data Path: C:\MSDCHEM\1\DATA\181207a\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run	Sequence Barcode Options
(X) Full Method	(X) On Mismatch, Inject Anyway
( ) Reprocessing Only	( ) On Mismatch, Don't Inject
	( ) Barcode Disabled

Line		Sample Name/Misc Info		
1) Sample	141	Deg1207a	ABN-SV103	wg-1,32,,SV103Degdftp
2) Pause				
3) Sample	142	ABN1207a	ABN-SV103	wg-3,32,,ABN CCV Lot# 792
4) Sample	143	AP91207a	ABN-SV103	wg-4,32,,AP9 CCV Lot# 790
5) Sample	144	ADP1207a	ABN-SV103	wg-5,32,,ADP CCV Lot# 792
6) Sample	144	ADP1207b	ABN-SV103	wg-5,32,,ADP CCV Lot# 792
7) Pause				
8) Sample	1	49143-12	ABN-SV103	l1849143-12,32,,ny,rv,eh
9) Sample	2	49000-01	ABN-SV103	l1849000-01,32,,mcp,eh
10) Sample	3	48954-01	ABN-SV103	l1848954-01,32,,mcp,eh
11) Sample	4	49088-04	ABN-SV103	l1849088-04d,32,5,ny,rv,e
12) Sample	5	49088-05	ABN-SV103	l1849088-05d,32,2,ny,rv,e
13) Sample	6	49088-06	ABN-SV103	l1849088-06d,32,2,ny,rv,e
14) Sample	7	48564-01	ABN-SV103	l1848564-01,32,,ny,eh
15) Sample	8	48564-03	ABN-SV103	l1848564-03,32,,ny,eh
16) Sample	9	564-02rr	ABN-SV103	l1848564-02,32,,ny,eh
17) Sample	10	48959-08	ABN-SV103	l1848959-08,32,,ny,ask
18) Sample	11	48959-06	ABN-SV103	l1848959-06,32,,ny,ask
19) Sample	12	184852-4	ABN-SV103	wg1184852-4d,32,2,ny,rv,a
20) Sample	13	184852-5	ABN-SV103	wg1184852-5d,32,2,ny,rv,a
21) Sample	14	49060-02	ABN-SV103	l1849060-02d,32,5,ny,rv,a
22) Sample	15	49060-03	ABN-SV103	l1849060-03d,32,2,ny,rv,a
23) Sample	16	49060-06	ABN-SV103	l1849060-06,32,,ny,rv,ask
24) Sample	17	49496-01	ABN-SV103	l1849496-01,32,,mcp,ask
25) Sample	18	49496-02	ABN-SV103	l1849496-02,32,,mcp,ask
26) Sample	19	49496-03	ABN-SV103	l1849496-03,32,,mcp,ask
27) Sample	20	49496-04	ABN-SV103	l1849496-04,32,,mcp,ask
28) Sample	21	49496-05	ABN-SV103	l1849496-05,32,,mcp,ask
29) Sample	22	49496-06	ABN-SV103	l1849496-06,32,,mcp,ask
30) Sample	23	49496-07	ABN-SV103	l1849496-07,32,,mcp,ask

Analysis log File

Total Files Reported in Log : 27
Log Generated From Directory: I:\8270\SV103\181209\

No.	DATA FILE	INJ METH	SAMPLE NAME	MISC	DATE INJ'D
1	Deg1209.d	ABN-SV103.M	wg-1,32,,SV103Degdftp	wg,wg,ical	12/9/2018 4:04 pm
2	Deg1209a.d	ABN-SV103.M	wg1187317-2,32,,SV103De	wg1187317,,ICAL15305	12/9/2018 4:30 pm
3	ABN1209.d	ABN-SV103.M	wg1187317-3,32,,ABN CCV	wg1187317,,ICAL15305	12/9/2018 4:59 pm
4	AP91209.d	ABN-SV103.M	wg1187317-4,32,,AP9 CCV	wg1187317,,ICAL15305	12/9/2018 5:25 pm
5	ADP1209.d	ABN-SV103.M	wg1187317-5,32,,ADP CCV	wg1187317,,ICAL15305	12/9/2018 5:51 pm
6	186623-1.d	ABN-SV103.M	wg1186623-1,32,,kr	wg1187317,wg1186623,ical..	12/9/2018 6:16 pm
7	186623-2.d	ABN-SV103.M	wg1186623-2,32,,kr	wg1187317,wg1186623,ical..	12/9/2018 6:42 pm
8	186623-3.d	ABN-SV103.M	wg1186623-3,32,,kr	wg1187317,wg1186623,ical..	12/9/2018 7:07 pm
9	48564-02.d	ABN-SV103.M	l1848564-02d,32,10,ny,k	wg1187317,wg1184737,ical..	12/9/2018 7:38 pm
10	49481-02.d	ABN-SV103.M	l1849481-02,32,,mcp,kr	wg1187317,wg1186124,ical..	12/9/2018 8:03 pm
11	49291-14.d	ABN-SV103.M	l1849291-14,32,,mcp,kr	wg1187317,wg1186124,ical..	12/9/2018 8:29 pm
12	49088-04.d	ABN-SV103.M	l1849088-04d,32,10,ny,k	wg1187317,wg1184849,ical..	12/9/2018 8:54 pm
13	49088-05.d	ABN-SV103.M	l1849088-05d,32,05,ny,k	wg1187317,wg1184849,ical..	12/9/2018 9:20 pm
14	49088-06.d	ABN-SV103.M	l1849088-06d,32,05,ny,k	wg1187317,wg1184849,ical..	12/9/2018 9:45 pm
15	184852-4.d	ABN-SV103.M	wg1184852-4d,32,5,ny,rv	wg1187317,wg1184852,ical..	12/9/2018 10:11 pm
16	184852-5.d	ABN-SV103.M	wg1184852-5d,32,5,ny,rv	wg1187317,wg1184852,ical..	12/9/2018 10:37 pm
17	49060-03.d	ABN-SV103.M	l1849060-03d,32,5,ny,rv	wg1187317,wg1184852,ical..	12/9/2018 11:02 pm
18	49060-06.d	ABN-SV103.M	l1849060-06d,32,5,ny,rv	wg1187317,wg1184852,ical..	12/9/2018 11:28 pm
19	50033-01.d	ABN-SV103.M	l1850033-01d,32,5,tcl,r	wg1187317,wg1186253,ical..	12/9/2018 11:53 pm
20	49609-01.d	ABN-SV103.M	l1849609-01d,32,10,mcp,	wg1187317,wg1186072,ical..	12/10/2018 12:44 am
21	49254-04.d	ABN-SV103.M	l1849254-04d,32,5,mcp,r	wg1187317,wg1185055,ical..	12/10/2018 12:19 am
22	49609-02.d	ABN-SV103.M	l1849609-02d,32,5,mcp,r	wg1187317,wg1186072,ical..	12/10/2018 1:10 am
23	49609-05.d	ABN-SV103.M	l1849609-05d,32,5,mcp,r	wg1187317,wg1186072,ical..	12/10/2018 1:35 am
24	49609-07.d	ABN-SV103.M	l1849609-07d,32,5,mcp,r	wg1187317,wg1186072,ical..	12/10/2018 2:01 am
25	49481-01.d	ABN-SV103.M	l1849481-01,32,,mcp,kr	wg1187317,wg1186124,ical..	12/10/2018 2:27 am

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 26  49291-16.d    ABN-SV103.M  l1849291-16,32,,mcp,kr  wg1187317,wg1186124,ical..
12/10/2018  2:52 am
 27  49291-18.d    ABN-SV103.M  l1849291-18,32,,mcp,kr  wg1187317,wg1186124,ical..
12/10/2018  3:18 am


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Printed: 12/10/18
          Page: 1


                          SeqLog 1.0 - (c) 2009 Abacus Database Applications
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ORGANIC ELN REPORT

Workgroup: WG1184852

Prep Method: EPA 3546
Solvent Type: DCM **Lot #:** DV197
Surrogate Type: ABN **Lot #:** 7880
Spike Type: ABN **Lot #:** 7881/7884
Spike Verify by: VP
Lims Spikelot: 8270-USAC2

Additional Reagents/Stds

Ottawa Sand	0000201350

Conc.Method: Buchi
Solvent Type: DCM
Lot #: DV197

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1:
Cleanup Method 2:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Sample/ Type	Extraction								Concentration			
	Extract Date	Analyst	Sample Weight g	Balance Id	Surr Amt ml	Spike Amt ml	Extract Unit Id	Stop Date/Time	Conc Date	Analyst	Final Vol ml	Conc Unit
L1848966-02 SOIL	12/03/18 09:43	Steven Marengo	30.55	36	1		MW7	NA	12/03/18 18:25	Caleb Agyepong	1	G
L1849030-01 SOIL	12/03/18 00:09	Vincent Phan	30.53	#42	1		MW5	NA	12/03/18 08:43	Khanh Hyunh	1	J
L1849030-02 SOIL	12/03/18 00:09	Vincent Phan	30.48	#42	1		MW5	NA	12/03/18 08:43	Khanh Hyunh	1	J
L1849030-03 SOIL	12/03/18 00:09	Vincent Phan	30.72	#42	1		MW5	NA	12/03/18 08:43	Khanh Hyunh	1	J
L1849030-04 SOIL	12/03/18 00:09	Vincent Phan	30.66	#42	1		MW5	NA	12/03/18 08:43	Khanh Hyunh	1	J
L1849030-05 SOIL	12/03/18 00:09	Vincent Phan	30.15	#42	1		MW5	NA	12/03/18 08:43	Khanh Hyunh	1	J
L1849049-01 SOIL	12/03/18 00:09	Vincent Phan	30.73	#42	1		MW5	NA	12/03/18 08:43	Khanh Hyunh	1	J

Reported: 10-DEC-18 01:07 PM

ORGANIC ELN REPORT

Workgroup: WG1184852

Sample/ Type	Extraction								Concentration			
	Extract Date	Analyst	Sample Weight g	Balance Id	Surr Amt ml	Spike Amt ml	Extract Unit Id	Stop Date/Time	Conc Date	Analyst	Final Vol ml	Conc Unit
L1849049-02 SOIL	12/03/18 00:09	Vincent Phan	30.12	#42	1		MW5	NA	12/03/18 08:44	Khanh Hyunh	1	J
L1849060-02 SAMP	12/03/18 09:43	Steven Marengo	30.42	36	1		MW7	NA	12/03/18 18:25	Caleb Agyepong	1	G
L1849060-03 SAMP	12/03/18 09:43	Steven Marengo	30.51	36	1		MW7	NA	12/03/18 18:26	Caleb Agyepong	1	G
L1849060-04 SAMP	12/03/18 09:43	Steven Marengo	30.86	36	1		MW7	NA	12/03/18 18:26	Caleb Agyepong	1	G
L1849060-05 SAMP	12/03/18 09:43	Steven Marengo	30.07	36	1		MW7	NA	12/03/18 18:26	Caleb Agyepong	1	G
L1849060-06 SAMP	12/03/18 09:43	Steven Marengo	30.39	36	1		MW7	NA	12/03/18 18:26	Caleb Agyepong	1	G
WG1184852-1 BLANK	12/03/18 00:09	Vincent Phan	30.89	#42	1		MW5	NA	12/03/18 08:43	Khanh Hyunh	1	J
WG1184852-2 LCS	12/03/18 00:09	Vincent Phan	30.29	#42	1	1	MW5	NA	12/03/18 08:43	Khanh Hyunh	1	J
WG1184852-3 LCSD	12/03/18 00:09	Vincent Phan	30.49	#42	1	1	MW5	NA	12/03/18 08:43	Khanh Hyunh	1	J

Reported: 10-DEC-18 01:07 PM

ORGANIC ELN REPORT

Workgroup: WG1184852

Sample/ Type	Extraction								Concentration			
	Extract Date	Analyst	Sample Weight **g**	Balance Id	Surr Amt **ml**	Spike Amt **ml**	Extract Unit Id	Stop Date/Time	Conc Date	Analyst	Final Vol **ml**	Conc Unit
WG1184852-4 MS	12/03/18 09:43	Steven Marengo	30.90	36	1	1	MW7	NA	12/03/18 18:24	Caleb Agyepong	1	G
WG1184852-5 MSD	12/03/18 09:43	Steven Marengo	30.41	36	1	1	MW7	NA	12/03/18 18:24	Caleb Agyepong	1	G

GC Extractable Analysis Polychlorinated Biphenyls (PCB)

Aroclor QC Summary

Form 2
Surrogate Recovery
PCBS

Client: CHA Companies
Project Name: 700 SMITH BLVD

Lab Number: L1849060
Project Number: 29852.1202.44000
Matrix: Soil

GC Column 1: CLP-Pesticide
GC Column 2: CLP-PesticideII

CLIENT ID (LAB SAMPLE NO.)	TCX 1 %REC	TCX 2 %REC	DCB 1 %REC	DCB 2 %REC	OTHER (1)	OTHER (2)	TOT OUT
CB-05 (L1849060-01)	67	67	68	99			0
CB-02 (L1849060-02D)	0*	0*	0*	0*			4
CB-03 (L1849060-03)	61	71	70	89			0
CB-04 (L1849060-04)	61	66	62	69			0
CB-01 (L1849060-05D)	0*	0*	0*	0*			4
DUP-18 (L1849060-06)	64	74	64	91			0
WG1184841-1BLANK	70	74	61	66			0
WG1184841-2LCS	72	76	62	67			0
WG1184841-3LCSD	69	74	62	67			0
CB-03MS	61	73	67	95			0
CB-03MSD	59	69	72	129			0
WG1184858-1BLANK	72	72	83	82			0
WG1184858-2LCS	81	78	87	85			0
WG1184858-3LCSD	77	77	84	84			0

QC LIMITS
(30-150) TCX = 2,4,5,6-TETRACHLORO-M-XYLENE
(30-150) DCBP = DECACHLOROBIPHENYL

*** Values outside of QC limits**

FORM II NYTCL-8082

Laboratory Control Sample
Form 3

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Matrix	: SOIL		
LCS Sample ID	: WG1184841-2	**Analysis Date** : 12/04/18 07:24	**File ID** : P7181204a-20
LCSD Sample ID	: WG1184841-3	**Analysis Date** : 12/04/18 07:37	**File ID** : P7181204a-21

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/kg)	Found (ug/kg)	%R	True (ug/kg)	Found (ug/kg)	%R	RPD	Recovery Limits	RPD Limit
Aroclor 1016	197	145	74	197	142	72	3	40-140	50
Aroclor 1260	197	129	66	197	127	64	3	40-140	50

Laboratory Control Sample
Form 3

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Matrix	: SOIL		
LCS Sample ID	: WG1184858-2	**Analysis Date** : 12/04/18 03:46	**File ID** : 16181204a-03
LCSD Sample ID	: WG1184858-3	**Analysis Date** : 12/04/18 04:00	**File ID** : 16181204a-04

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/kg)	Found (ug/kg)	%R	True (ug/kg)	Found (ug/kg)	%R	RPD	Recovery Limits	RPD Limit
Aroclor 1016	198	178	90	202	173	86	5	40-140	50
Aroclor 1260	198	167	84	202	164	81	4	40-140	50

Matrix Spike
Form 3

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Client Sample ID	: CB-03	**Matrix**	: SOIL
Lab Sample ID	: L1849060-03	**Analysis Date**	: 12/04/18 08:03
Matrix Spike	: WG1184841-4	**MS Analysis Date**	: 12/04/18 08:16
Matrix Spike Dup	: WG1184841-5	**MSD Analysis Date**	: 12/04/18 08:29

		Matrix Spike Sample				Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/kg)	Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R		Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R	RPD	Recovery Limits	RPD Limit
Aroclor 1016	ND	1130	1620	143	Q	1170	1640	140	1	40-140	50

Matrix Spike
Form 3

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Client Sample ID	: CB-03	Matrix	: SOIL
Lab Sample ID	: L1849060-03	Analysis Date	: 12/04/18 08:03
Matrix Spike	: WG1184841-4	MS Analysis Date	: 12/04/18 08:16
Matrix Spike Dup	: WG1184841-5	MSD Analysis Date	: 12/04/18 08:29

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/kg)	Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R	Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R	RPD	Recovery Limits	RPD Limit
Aroclor 1260	1590	1130	2590	88	1170	2680	93	3	40-140	50

Method Blank Summary
Form 4
PCBS

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Lab Sample ID	: WG1184858-1	**Lab File ID**	: 16181204a-02
Matrix	: SOIL	**Extraction Date**	: 12/03/18
Sulfur Cleanup	: Y		
Analysis Date (1)	: 12/04/18 03:33	**Analysis Date (2)**	: 12/04/18 03:33
Instrument ID (1)	: PEST16	**Instrument ID (2)**	: PEST16

Client Sample No.	Lab Sample ID	Analysis Date 1	Analysis Date 2
WG1184858-2LCS	WG1184858-2	12/04/18 03:46	12/04/18 03:46
WG1184858-3LCSD	WG1184858-3	12/04/18 04:00	12/04/18 04:00
CB-05	L1849060-01	12/04/18 04:14	12/04/18 04:14

Method Blank Summary
Form 4
PCBS

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Lab Sample ID	: WG1184841-1	**Lab File ID**	: P7181204a-19
Matrix	: SOIL	**Extraction Date**	: 12/02/18
Sulfur Cleanup	: Y		
Analysis Date (1)	: 12/04/18 07:12	**Analysis Date (2)**	: 12/04/18 07:12
Instrument ID (1)	: PEST7	**Instrument ID (2)**	: PEST7

Client Sample No.	Lab Sample ID	Analysis Date 1	Analysis Date 2
WG1184841-2LCS	WG1184841-2	12/04/18 07:24	12/04/18 07:24
WG1184841-3LCSD	WG1184841-3	12/04/18 07:37	12/04/18 07:37
CB-03	L1849060-03	12/04/18 08:03	12/04/18 08:03
CB-03MS	WG1184841-4	12/04/18 08:16	12/04/18 08:16
CB-03MSD	WG1184841-5	12/04/18 08:29	12/04/18 08:29
CB-04	L1849060-04	12/04/18 08:55	12/04/18 08:55
DUP-18	L1849060-06	12/04/18 09:20	12/04/18 09:20
CB-01	L1849060-05D	12/10/18 16:28	12/10/18 16:28
CB-02	L1849060-02D	12/10/18 17:42	12/10/18 17:42

Analytical Sequence
Form 8
PCBS

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: PEST16	**Initial Calib. Date(s)**	: 08/09/18 08/09/18

Client ID	Lab ID	Date/Time Analyzed
1242/1268 L1	R1101688-1	08/09/18 09:38
1242/1268 L2	R1101688-2	08/09/18 09:50
1242/1268 L3	R1101688-3	08/09/18 10:03
1242/1268 L4	R1101688-4	08/09/18 10:16
1242/1268 L5	R1101688-5	08/09/18 10:29
1242/1268 L6	R1101688-6	08/09/18 10:42
1232/1262 L1	R1101688-7	08/09/18 10:55
1232/1262 L2	R1101688-8	08/09/18 11:08
1232/1262 L3	R1101688-9	08/09/18 11:21
1232/1262 L4	R1101688-10	08/09/18 11:34
1232/1262 L5	R1101688-11	08/09/18 11:46
1232/1262 L6	R1101688-12	08/09/18 11:59
1248 L1	R1101688-13	08/09/18 12:12
1248 L2	R1101688-14	08/09/18 12:25
1248 L3	R1101688-15	08/09/18 12:38
1248 L4	R1101688-16	08/09/18 12:51
1248 L5	R1101688-18	08/09/18 13:04
1248 L6	R1101688-17	08/09/18 13:17
1221/1254 L1	R1101688-19	08/09/18 13:30
1221/1254 L2	R1101688-20	08/09/18 13:43
1221/1254 L3	R1101688-21	08/09/18 13:55
1221/1254 L4	R1101688-22	08/09/18 14:08
1221/1254 L5	R1101688-23	08/09/18 14:21
1221/1254 L6	R1101688-24	08/09/18 14:34
1016/1260 L1	R1101688-25	08/09/18 14:47
1016/1260 L2	R1101688-26	08/09/18 15:00
1016/1260 L3	R1101688-27	08/09/18 15:13
1016/1260 L4	R1101688-28	08/09/18 15:26
1016/1260 L5	R1101688-29	08/09/18 15:39
1016/1260 L6	R1101688-30	08/09/18 15:52
R1101688-31 ICV	R1101688-31	08/09/18 16:05
R1101688-32 ICV	R1101688-32	08/09/18 16:17
R1101688-33 ICV	R1101688-33	08/09/18 16:30
R1101688-34 ICV	R1101688-34	08/09/18 16:43
R1101688-35 ICV	R1101688-35	08/09/18 16:56
WG1185229-1 CCAL	WG1185229-1	12/04/18 01:57
WG1184858-1 BLANK	WG1184858-1	12/04/18 03:33
WG1184858-2 LCS	WG1184858-2	12/04/18 03:46
WG1184858-3 LCSD	WG1184858-3	12/04/18 04:00
CB-05	L1849060-01	12/04/18 04:14

Analytical Sequence
Form 8
PCBS

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: PEST7	**Initial Calib. Date(s)**	: 04/10/18 04/10/18

Client ID	Lab ID	Date/Time Analyzed
1242/1268 L1	R1088638-2	04/10/18 16:17
1242/1268 L2	R1088638-1	04/10/18 16:29
1242/1268 L3	R1088638-3	04/10/18 16:42
1242/1268 L4	R1088638-4	04/10/18 16:55
1242/1268 L5	R1088638-5	04/10/18 17:08
1242/1268 L6	R1088638-6	04/10/18 17:21
1232/1262 L1	R1088638-7	04/10/18 17:34
1232/1262 L2	R1088638-8	04/10/18 17:47
1232/1262 L3	R1088638-9	04/10/18 17:59
1232/1262 L4	R1088638-10	04/10/18 18:12
1232/1262 L5	R1088638-12	04/10/18 18:25
1232/1262 L6	R1088638-11	04/10/18 18:38
1248 L1	R1088638-13	04/10/18 18:51
1248 L2	R1088638-14	04/10/18 19:04
1248 L3	R1088638-15	04/10/18 19:17
1248 L4	R1088638-16	04/10/18 19:30
1248 L5	R1088638-17	04/10/18 19:42
1248 L6	R1088638-18	04/10/18 19:55
1221/1254 L1	R1088638-19	04/10/18 20:08
1221/1254 L2	R1088638-20	04/10/18 20:21
1221/1254 L3	R1088638-21	04/10/18 20:34
1221/1254 L4	R1088638-23	04/10/18 20:47
1221/1254 L5	R1088638-22	04/10/18 20:59
1221/1254 L6	R1088638-24	04/10/18 21:12
1016/1260 L1	R1088638-25	04/10/18 21:25
1016/1260 L2	R1088638-26	04/10/18 21:38
1016/1260 L3	R1088638-27	04/10/18 21:51
1016/1260 L4	R1088638-28	04/10/18 22:04
1016/1260 L5	R1088638-29	04/10/18 22:16
1016/1260 L6	R1088638-30	04/10/18 22:29
R1088638-31 ICV	R1088638-31	04/10/18 22:42
R1088638-32 ICV	R1088638-32	04/10/18 22:55
R1088638-33 ICV	R1088638-33	04/10/18 23:08
R1088638-34 ICV	R1088638-34	04/10/18 23:21
R1088638-35 ICV	R1088638-35	04/10/18 23:34
WG1185226-1 CCAL	WG1185226-1	12/04/18 00:42
WG1184841-1 BLANK	WG1184841-1	12/04/18 07:12
WG1184841-2 LCS	WG1184841-2	12/04/18 07:24
WG1184841-3 LCSD	WG1184841-3	12/04/18 07:37
WG1185226-2 CCAL	WG1185226-2	12/04/18 07:50
CB-03	L1849060-03	12/04/18 08:03
CB-03 MS	WG1184841-4	12/04/18 08:16
CB-03 MSD	WG1184841-5	12/04/18 08:29
CB-04	L1849060-04	12/04/18 08:55

Analytical Sequence
Form 8
PCBS

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: PEST7	**Initial Calib. Date(s)**	: 04/10/18 04/10/18

Client ID	Lab ID	Date/Time Analyzed
DUP-18	L1849060-06	12/04/18 09:20

Analytical Sequence
Form 8
PCBS

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: PEST12	**Initial Calib. Date(s)**	: 10/13/18 10/13/18

Client ID	Lab ID	Date/Time Analyzed
1242/1268 L1	R1124147-1	10/13/18 11:31
1242/1268 L2	R1124147-2	10/13/18 11:43
1242/1268 L3	R1124147-3	10/13/18 11:56
1242/1268 L4	R1124147-4	10/13/18 12:08
1242/1268 L5	R1124147-5	10/13/18 12:20
1242/1268 L6	R1124147-6	10/13/18 12:33
1232/1262 L1	R1124147-7	10/13/18 12:45
1232/1262 L2	R1124147-8	10/13/18 12:57
1232/1262 L3	R1124147-9	10/13/18 13:10
1232/1262 L4	R1124147-10	10/13/18 13:22
1232/1262 L5	R1124147-11	10/13/18 13:34
1232/1262 L6	R1124147-12	10/13/18 13:47
1248 L1	R1124147-13	10/13/18 13:59
1248 L2	R1124147-14	10/13/18 14:12
1248 L3	R1124147-15	10/13/18 14:24
1248 L4	R1124147-16	10/13/18 14:36
1248 L5	R1124147-17	10/13/18 14:49
1248 L6	R1124147-18	10/13/18 15:01
1221/1254 L1	R1124147-19	10/13/18 15:14
1221/1254 L2	R1124147-20	10/13/18 15:26
1221/1254 L3	R1124147-21	10/13/18 15:38
1221/1254 L4	R1124147-22	10/13/18 15:51
1221/1254 L5	R1124147-23	10/13/18 16:03
1254 L6	R1124147-24	10/13/18 16:15
1016/1260 L1	R1124147-25	10/13/18 16:28
1016/1260 L2	R1124147-26	10/13/18 16:40
1016/1260 L3	R1124147-27	10/13/18 16:53
1016/1260 L4	R1124147-28	10/13/18 17:05
1016/1260 L5	R1124147-29	10/13/18 17:17
1016/1260 L6	R1124147-30	10/13/18 17:30
R1124147-31 ICV	R1124147-31	10/13/18 17:42
R1124147-32 ICV	R1124147-32	10/13/18 17:54
R1124147-33 ICV	R1124147-33	10/13/18 18:07
R1124147-34 ICV	R1124147-34	10/13/18 18:19
R1124147-35 ICV	R1124147-35	10/13/18 18:32
WG1187642-1 CCAL	WG1187642-1	12/10/18 14:04
CB-01	L1849060-05 D	12/10/18 16:28
CB-02	L1849060-02 D	12/10/18 17:42

Date Created: 08/27/18
Created By: Jason Hebert
File: PM5369-1
Page: 1

SW-846 8082A - Polychlorinated Biphenyls (SOIL)

Holding Time: 14 days
Container / Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Aroclor 1016	12674-11-2	33.5	2.97	ug/kg	40-140	50	40-140	50	50			
Aroclor 1221	11104-28-2	33.5	3.36	ug/kg	40-140	50	40-140	50	50			
Aroclor 1232	11141-16-5	33.5	7.10	ug/kg	40-140	50	40-140	50	50			
Aroclor 1242	53469-21-9	33.5	4.52	ug/kg	40-140	50	40-140	50	50			
Aroclor 1248	12672-29-6	33.5	5.03	ug/kg	40-140	50	40-140	50	50			
Aroclor 1254	11097-69-1	33.5	3.66	ug/kg	40-140	50	40-140	50	50			
Aroclor 1260	11096-82-5	33.5	6.19	ug/kg	40-140	50	40-140	50	50			
Aroclor 1262	37324-23-5	33.5	4.25	ug/kg	40-140	30	40-140	50	50			
Aroclor 1268	11100-14-4	33.5	3.47	ug/kg	40-140	30	40-140	50	50			
PCBs, Total	1336-36-3	33.5	2.97	ug/kg				50	50			
PCBs, Total	1336-36-3	33.5	2.97	ug/kg				50	50			
2,4,5,6-Tetrachloro-m-xylene	*877-09-8*									*30-150*		
Decachlorobiphenyl	*2051-24-3*									*30-150*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. ***(Soil/Solids only)***
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 08/27/18
Created By: Jason Hebert
File: PM5369-1
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PCB - EPA 8082A (WATER)

Holding Time: 7 days
Container / Sample Preservation: 2 - Amber 1000ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Aroclor 1016	12674-11-2	0.25	0.0156	ug/l	40-140	50	40-140	50	50			
Aroclor 1221	11104-28-2	0.25	0.0221	ug/l	40-140	50	40-140	50	50			
Aroclor 1232	11141-16-5	0.25	0.046	ug/l	40-140	50	40-140	50	50			
Aroclor 1242	53469-21-9	0.25	0.0362	ug/l	40-140	50	40-140	50	50			
Aroclor 1248	12672-29-6	0.25	0.0455	ug/l	40-140	50	40-140	50	50			
Aroclor 1254	11097-69-1	0.25	0.0168	ug/l	40-140	50	40-140	50	50			
Aroclor 1260	11096-82-5	0.25	0.0344	ug/l	40-140	50	40-140	50	50			
Aroclor 1262	37324-23-5	0.25	0.033	ug/l	40-140	30	40-140	50	50			
Aroclor 1268	11100-14-4	0.25	0.0317	ug/l	40-140	30	40-140	50	50			
PCBs, Total	1336-36-3	0.25	0.0156	ug/l				50	50			
PCBs, Total	1336-36-3	0.25	0.0156	ug/l				50	50			
2,4,5,6-Tetrachloro-m-xylene	*877-09-8*									*30-150*		
Decachlorobiphenyl	*2051-24-3*									*30-150*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. ***(Soil/Solids only)***
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Aroclor Sample Data

Form 1
GC Organics

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-01	Date Collected	: 11/29/18 14:30
Client ID	: CB-05	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/04/18 04:14
Sample Matrix	: SOIL	Date Extracted	: 12/03/18
Analytical Method	: 1,8082A	Dilution Factor	: 1
Lab File ID	: 16181204a-05	Analyst	: HT
Sample Amount	: 15.45 g	Instrument ID	: PEST16
Extraction Method	: EPA 3546	GC Column	: CLP-Pesticide
Extract Volume	: 1000 uL	%Solids	: 24
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: Y		

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
12674-11-2	Aroclor 1016	ND	136	12.1	U
11104-28-2	Aroclor 1221	ND	136	13.6	U
11141-16-5	Aroclor 1232	ND	136	28.8	U
53469-21-9	Aroclor 1242	ND	136	18.3	U
12672-29-6	Aroclor 1248	ND	136	20.4	U
37324-23-5	Aroclor 1262	ND	136	17.3	U
11100-14-4	Aroclor 1268	ND	136	14.1	U

Form 1
GC Organics

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Lab ID	: L1849060-01	**Date Collected**	: 11/29/18 14:30
Client ID	: CB-05	**Date Received**	: 11/30/18
Sample Location	: PORT OF ALBANY	**Date Analyzed**	: 12/04/18 04:14
Sample Matrix	: SOIL	**Date Extracted**	: 12/03/18
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: 16181204a-05	**Analyst**	: HT
Sample Amount	: 15.45 g	**Instrument ID**	: PEST16
Extraction Method	: EPA 3546	**GC Column**	: CLP-PesticideII
Extract Volume	: 1000 uL	**%Solids**	: 24
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/Kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
11097-69-1	Aroclor 1254	2060	136	14.9	
11096-82-5	Aroclor 1260	1500	136	25.1	
1336-36-3	PCBs, Total	3560	136	12.1	

Form 1
GC Organics

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-02D	Date Collected	: 11/30/18 09:05
Client ID	: CB-02	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/10/18 17:42
Sample Matrix	: SOIL	Date Extracted	: 12/02/18
Analytical Method	: 1,8082A	Dilution Factor	: 10
Lab File ID	: 12181210A-09	Analyst	: AWS
Sample Amount	: 15.35 g	Instrument ID	: PEST12
Extraction Method	: EPA 3546	GC Column	: CLP-Pesticide
Extract Volume	: 1000 uL	%Solids	: 66
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: Y		

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
12674-11-2	Aroclor 1016	ND	491	43.6	U
11104-28-2	Aroclor 1221	ND	491	49.2	U
11141-16-5	Aroclor 1232	ND	491	104.	U
53469-21-9	Aroclor 1242	ND	491	66.2	U
12672-29-6	Aroclor 1248	ND	491	73.7	U
11097-69-1	Aroclor 1254	4660	491	53.7	
11096-82-5	Aroclor 1260	2080	491	90.8	
37324-23-5	Aroclor 1262	ND	491	62.4	U
11100-14-4	Aroclor 1268	ND	491	50.9	U
1336-36-3	PCBs, Total	6740	491	43.6	

Form 1
GC Organics

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-03	Date Collected	: 11/30/18 09:25
Client ID	: CB-03	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/04/18 08:03
Sample Matrix	: SOIL	Date Extracted	: 12/02/18
Analytical Method	: 1,8082A	Dilution Factor	: 1
Lab File ID	: P7181204a-23	Analyst	: WR
Sample Amount	: 5.84 g	Instrument ID	: PEST7
Extraction Method	: EPA 3546	GC Column	: CLP-Pesticide
Extract Volume	: 1000 uL	%Solids	: 50
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: Y		

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
12674-11-2	Aroclor 1016	ND	172	15.2	U
11104-28-2	Aroclor 1221	ND	172	17.2	U
11141-16-5	Aroclor 1232	ND	172	36.4	U
12672-29-6	Aroclor 1248	ND	172	25.7	U
37324-23-5	Aroclor 1262	ND	172	21.8	U
11100-14-4	Aroclor 1268	ND	172	17.8	U

Form 1
GC Organics

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-03	Date Collected	: 11/30/18 09:25
Client ID	: CB-03	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/04/18 08:03
Sample Matrix	: SOIL	Date Extracted	: 12/02/18
Analytical Method	: 1,8082A	Dilution Factor	: 1
Lab File ID	: P7181204a-23	Analyst	: WR
Sample Amount	: 5.84 g	Instrument ID	: PEST7
Extraction Method	: EPA 3546	GC Column	: CLP-PesticideII
Extract Volume	: 1000 uL	%Solids	: 50
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: Y		

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
53469-21-9	Aroclor 1242	901	172	23.1	
11097-69-1	Aroclor 1254	2050	172	18.8	
11096-82-5	Aroclor 1260	1590	172	31.7	
1336-36-3	PCBs, Total	4540	172	15.2	

Form 1
GC Organics

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Lab ID	: L1849060-04	**Date Collected**	: 11/30/18 09:45
Client ID	: CB-04	**Date Received**	: 11/30/18
Sample Location	: PORT OF ALBANY	**Date Analyzed**	: 12/04/18 08:55
Sample Matrix	: SOIL	**Date Extracted**	: 12/02/18
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P7181204a-27	**Analyst**	: WR
Sample Amount	: 15.16 g	**Instrument ID**	: PEST7
Extraction Method	: EPA 3546	**GC Column**	: CLP-Pesticide
Extract Volume	: 1000 uL	**%Solids**	: 86
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/Kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
12674-11-2	Aroclor 1016	ND	38.2	3.39	U
11104-28-2	Aroclor 1221	ND	38.2	3.82	U
11141-16-5	Aroclor 1232	ND	38.2	8.09	U
12672-29-6	Aroclor 1248	ND	38.2	5.72	U
11096-82-5	Aroclor 1260	121	38.2	7.05	I
37324-23-5	Aroclor 1262	ND	38.2	4.85	U
11100-14-4	Aroclor 1268	ND	38.2	3.95	U

Form 1
GC Organics

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Lab ID	: L1849060-04	**Date Collected**	: 11/30/18 09:45
Client ID	: CB-04	**Date Received**	: 11/30/18
Sample Location	: PORT OF ALBANY	**Date Analyzed**	: 12/04/18 08:55
Sample Matrix	: SOIL	**Date Extracted**	: 12/02/18
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P7181204a-27	**Analyst**	: WR
Sample Amount	: 15.16 g	**Instrument ID**	: PEST7
Extraction Method	: EPA 3546	**GC Column**	: CLP-PesticideII
Extract Volume	: 1000 uL	**%Solids**	: 86
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/Kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
53469-21-9	Aroclor 1242	52.8	38.2	5.14	
11097-69-1	Aroclor 1254	204	38.2	4.18	
1336-36-3	PCBs, Total	378	38.2	3.39	

Form 1
GC Organics

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-05D	Date Collected	: 11/30/18 10:10
Client ID	: CB-01	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/10/18 16:28
Sample Matrix	: SOIL	Date Extracted	: 12/02/18
Analytical Method	: 1,8082A	Dilution Factor	: 20
Lab File ID	: 12181210A-05	Analyst	: AWS
Sample Amount	: 15.08 g	Instrument ID	: PEST12
Extraction Method	: EPA 3546	GC Column	: CLP-Pesticide
Extract Volume	: 1000 uL	%Solids	: 73
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: Y		

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
12674-11-2	Aroclor 1016	ND	908	80.7	U
11104-28-2	Aroclor 1221	ND	908	91.0	U
11141-16-5	Aroclor 1232	ND	908	192.	U
53469-21-9	Aroclor 1242	ND	908	122.	U
12672-29-6	Aroclor 1248	ND	908	136.	U
11096-82-5	Aroclor 1260	3010	908	168.	
37324-23-5	Aroclor 1262	ND	908	115.	U
11100-14-4	Aroclor 1268	ND	908	94.1	U

Form 1
GC Organics

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Lab ID	: L1849060-05D	**Date Collected**	: 11/30/18 10:10
Client ID	: CB-01	**Date Received**	: 11/30/18
Sample Location	: PORT OF ALBANY	**Date Analyzed**	: 12/10/18 16:28
Sample Matrix	: SOIL	**Date Extracted**	: 12/02/18
Analytical Method	: 1,8082A	**Dilution Factor**	: 20
Lab File ID	: 12181210A-05	**Analyst**	: AWS
Sample Amount	: 15.08 g	**Instrument ID**	: PEST12
Extraction Method	: EPA 3546	**GC Column**	: CLP-PesticideII
Extract Volume	: 1000 uL	**%Solids**	: 73
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/Kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
11097-69-1	Aroclor 1254	7320	908	99.4	
1336-36-3	PCBs, Total	10300	908	80.7	

Form 1
GC Organics

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-06	Date Collected	: 11/30/18 12:00
Client ID	: DUP-18	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/04/18 09:20
Sample Matrix	: SOIL	Date Extracted	: 12/02/18
Analytical Method	: 1,8082A	Dilution Factor	: 1
Lab File ID	: P7181204a-29	Analyst	: WR
Sample Amount	: 5.93 g	Instrument ID	: PEST7
Extraction Method	: EPA 3546	GC Column	: CLP-Pesticide
Extract Volume	: 1000 uL	%Solids	: 49
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: Y		

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
12674-11-2	Aroclor 1016	ND	173	15.3	U
11104-28-2	Aroclor 1221	ND	173	17.3	U
11141-16-5	Aroclor 1232	ND	173	36.6	U
12672-29-6	Aroclor 1248	ND	173	25.9	U
11096-82-5	Aroclor 1260	1010	173	31.9	I
37324-23-5	Aroclor 1262	ND	173	21.9	U
11100-14-4	Aroclor 1268	ND	173	17.9	U

Form 1
GC Organics

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Lab ID	: L1849060-06	**Date Collected**	: 11/30/18 12:00
Client ID	: DUP-18	**Date Received**	: 11/30/18
Sample Location	: PORT OF ALBANY	**Date Analyzed**	: 12/04/18 09:20
Sample Matrix	: SOIL	**Date Extracted**	: 12/02/18
Analytical Method	: 1,8082A	**Dilution Factor**	: 1
Lab File ID	: P7181204a-29	**Analyst**	: WR
Sample Amount	: 5.93 g	**Instrument ID**	: PEST7
Extraction Method	: EPA 3546	**GC Column**	: CLP-PesticideII
Extract Volume	: 1000 uL	**%Solids**	: 49
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: Y		

		ug/Kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
53469-21-9	Aroclor 1242	662	173	23.3	
11097-69-1	Aroclor 1254	1620	173	18.9	
1336-36-3	PCBs, Total	3290	173	15.3	

Form 1
GC Organics

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: WG1184841-1	Date Collected	: NA
Client ID	: WG1184841-1BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 12/04/18 07:12
Sample Matrix	: SOIL	Date Extracted	: 12/02/18
Analytical Method	: 1,8082A	Dilution Factor	: 1
Lab File ID	: P7181204a-19	Analyst	: WR
Sample Amount	: 15.24 g	Instrument ID	: PEST7
Extraction Method	: EPA 3546	GC Column	: CLP-Pesticide
Extract Volume	: 1000 uL	%Solids	: NA
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: Y		

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
12674-11-2	Aroclor 1016	ND	32.8	2.91	U
11104-28-2	Aroclor 1221	ND	32.8	3.29	U
11141-16-5	Aroclor 1232	ND	32.8	6.96	U
53469-21-9	Aroclor 1242	ND	32.8	4.42	U
12672-29-6	Aroclor 1248	ND	32.8	4.92	U
11097-69-1	Aroclor 1254	ND	32.8	3.59	U
11096-82-5	Aroclor 1260	ND	32.8	6.06	U
37324-23-5	Aroclor 1262	ND	32.8	4.17	U
11100-14-4	Aroclor 1268	ND	32.8	3.40	U
1336-36-3	PCBs, Total	ND	32.8	2.91	U

Form 1
GC Organics

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: WG1184858-1	Date Collected	: NA
Client ID	: WG1184858-1BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 12/04/18 03:33
Sample Matrix	: SOIL	Date Extracted	: 12/03/18
Analytical Method	: 1,8082A	Dilution Factor	: 1
Lab File ID	: 16181204a-02	Analyst	: HT
Sample Amount	: 15.39 g	Instrument ID	: PEST16
Extraction Method	: EPA 3546	GC Column	: CLP-Pesticide
Extract Volume	: 1000 uL	%Solids	: NA
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: Y		

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
12674-11-2	Aroclor 1016	ND	32.5	2.88	U
11104-28-2	Aroclor 1221	ND	32.5	3.26	U
11141-16-5	Aroclor 1232	ND	32.5	6.89	U
53469-21-9	Aroclor 1242	ND	32.5	4.38	U
12672-29-6	Aroclor 1248	ND	32.5	4.87	U
11097-69-1	Aroclor 1254	ND	32.5	3.55	U
11096-82-5	Aroclor 1260	ND	32.5	6.00	U
37324-23-5	Aroclor 1262	ND	32.5	4.13	U
11100-14-4	Aroclor 1268	ND	32.5	3.36	U
1336-36-3	PCBs, Total	ND	32.5	2.88	U

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\181204A\
Data File : P7181204a-23.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2018 8:03 am
Operator : pest7:wr
Sample : l1849060-03,42e,,
Misc : wg1185226,wg1184841,ical14857
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 15:08:28 2018
Quant Method : I:\Pest7\181206A\P7_pcb_04_10_18_ugL_ICAL14857.m
Quant Title : pcb
QLast Update : Thu Dec 06 11:14:43 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest7\181204A\P7181204a-22.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.943	1.988	578.1E6	459.5E6	250.000	250.000
	Standard Area 1 : #1 = 600567641				Recovery =		96.26%
	Standard Area 1 : #2 = 451289888				Recovery =		101.83%
13) i	2154_1br2nb	1.943	1.988	578.1E6	459.5E6	250.000	250.000
22) i	4268_1br2nb	1.943	1.988	578.1E6	459.5E6	250.000	250.000
33) i	1248_1br2nb	1.943	1.988	578.1E6	459.5E6	250.000	250.000
39) i	3262_1br2nb	1.943	1.988	578.1E6	459.5E6	250.000	250.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.395	2.550	847.5E6	750.1E6	305.044	354.576
	Spiked Amount 500.000	Range 30 - 150		Recovery =		61.01%	70.92%
3) s	Decachlorobi	6.391f	6.848f	669.1E6	620.1E6	351.470M2	446.763M4
	Spiked Amount 500.000	Range 30 - 150		Recovery =		70.29%	89.35%
	Target Compounds						
4) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-2			0	0	N.D.	N.D.
	Average 1016-2					0.000	0.000
8) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
9) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-3	5.217f	5.671f	469.8E6	342.3E6	3686.580M4	3696.474M4
11) l2	1260-4	5.441f	5.845f	1003.1E6	923.7E6	3557.867M4	5037.268M4
12) l2	1260-5	5.639f	6.087f	822.4E6	659.6E6	4485.781M4	5157.540M4

Data Path : I:\Pest7\181204A\
Data File : P7181204a-23.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2018 8:03 am
Operator : pest7:wr
Sample : l1849060-03,42e,,
Misc : wg1185226,wg1184841,ical14857
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 15:08:28 2018
Quant Method : I:\Pest7\181206A\P7_pcb_04_10_18_ugL_ICAL14857.m
Quant Title : pcb
QLast Update : Thu Dec 06 11:14:43 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest7\181204A\P7181204a-22.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Sum 1260-1			2295.2E6	1925.6E6	11730.228	13891.283
Average	1260-1					3910.076	4630.428
14) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
17) l4	1254-1	3.871	0.000	360.3E6	0	3457.801	N.D. d
18) l4	1254-2	0.000	4.498	0	489.8E6	N.D. d	5190.379
19) l4	1254-3	4.392	4.850	905.5E6	765.2E6	5456.642	6006.581
20) l4	1254-4	4.608	5.022	715.7E6	600.0E6	5858.770	6753.350
21) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1254-1			1981.5E6	1855.0E6	14773.213	17950.310
Average	1254-1					4924.404	5983.437
23) l6	1242-1	2.846	3.160	147.7E6	110.8E6	1496.355	1376.918
24) l6	1242-2	3.169	3.517	384.1E6	316.3E6	3625.011M3	3689.024M3
25) l6	1242-3	3.264	3.622	204.3E6	162.9E6	2613.044	2812.253
26) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1242-1			736.1E6	590.0E6	7734.410	7878.194
Average	1242-1					2578.137	2626.065
28) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
29) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1268-1			0	0	N.D.	N.D.

Data Path : I:\Pest7\181204A\
Data File : P7181204a-23.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2018 8:03 am
Operator : pest7:wr
Sample : l1849060-03,42e,,
Misc : wg1185226,wg1184841,ical14857
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 15:08:28 2018
Quant Method : I:\Pest7\181206A\P7_pcb_04_10_18_ugL_ICAL14857.m
Quant Title : pcb
QLast Update : Thu Dec 06 11:14:43 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest7\181204A\P7181204a-22.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1268-1					0.000	0.000
34) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
40) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
41) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
45) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
46) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\181204A\
Data File : P7181204a-23.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2018 8:03 am
Operator : pest7:wr
Sample : l1849060-03,42e,,
Misc : wg1185226,wg1184841,ical14857
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 15:08:28 2018
Quant Method : I:\Pest7\181206A\P7_pcb_04_10_18_ugL_ICAL14857.m
Quant Title : pcb
QLast Update : Thu Dec 06 11:14:43 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest7\181204A\P7181204a-22.d
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

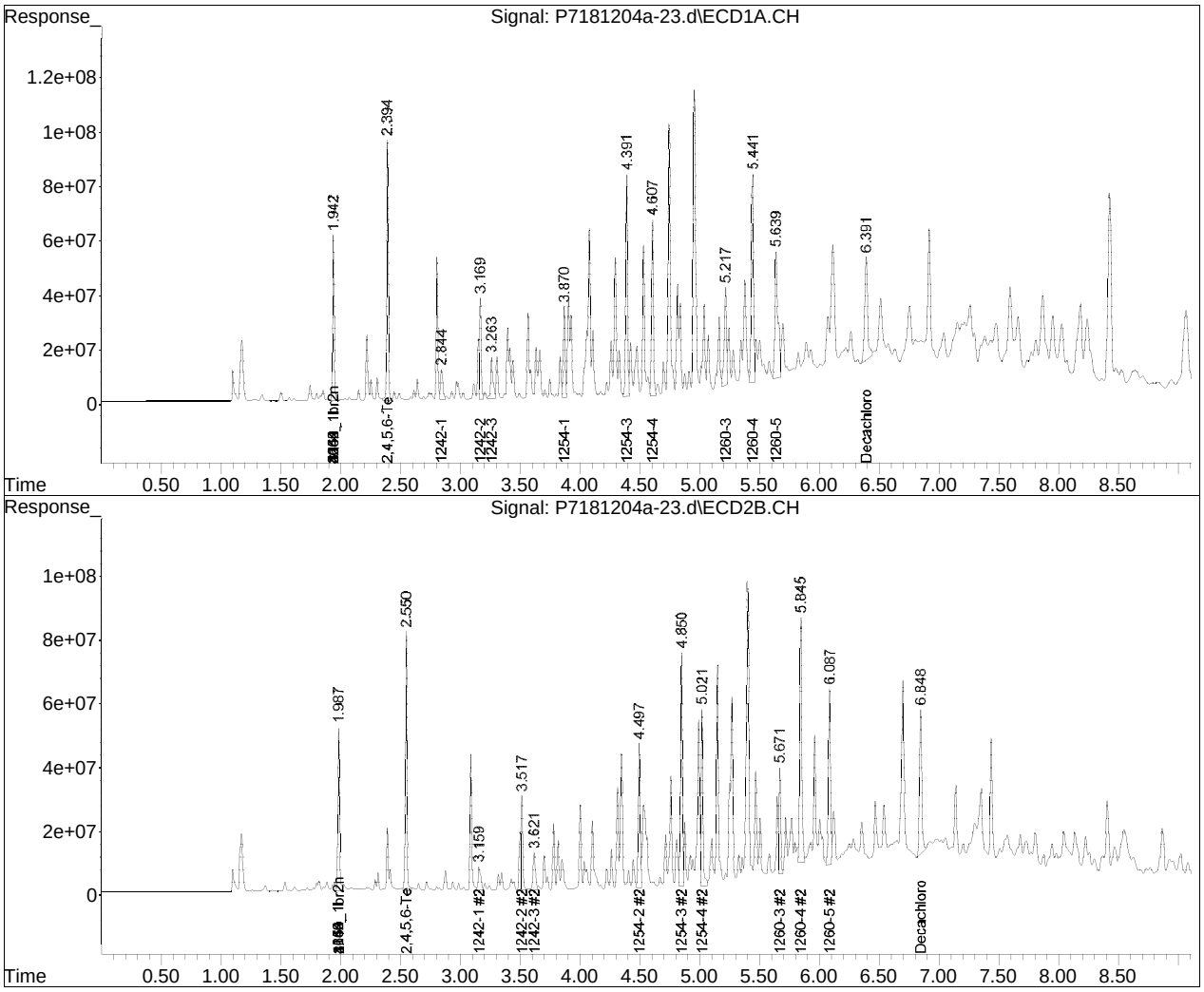
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed-22.d••ed)

Data Path : I:\Pest7\181204A\
Data File : P7181204a-23.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2018 8:03 am
Operator : pest7:wr
Sample : l1849060-03,42e,,
Misc : wg1185226,wg1184841,ical14857
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 15:08:28 2018
Quant Method : I:\Pest7\181206A\P7_pcb_04_10_18_ugL_ICAL14857.m
Quant Title : pcb
QLast Update : Thu Dec 06 11:14:43 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

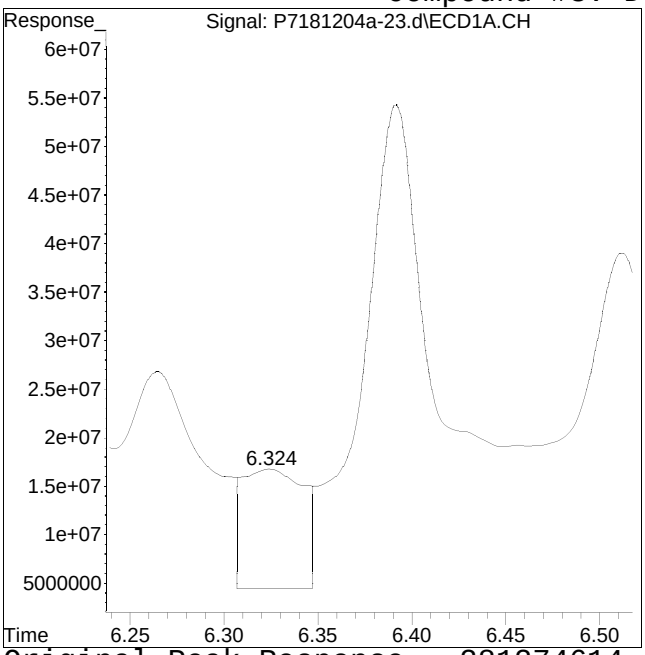


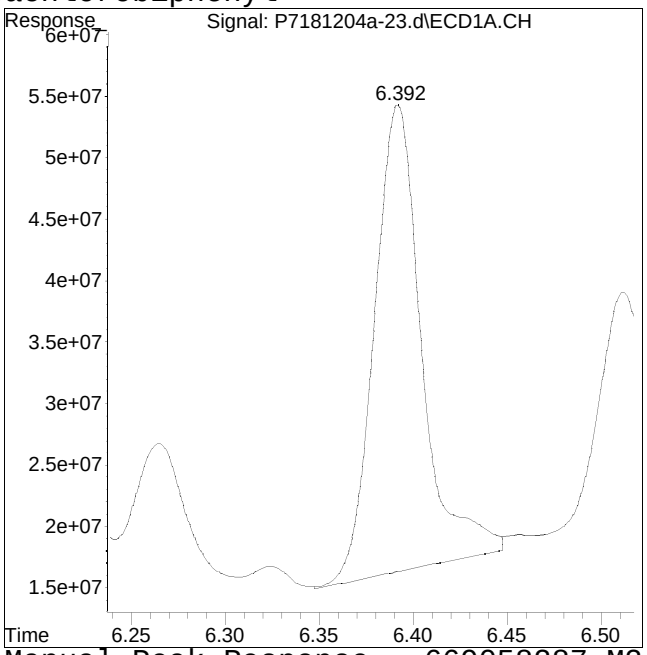
Manual Integration Report

Data Path : I:\Pest7\181204A\
Data File : P7181204a-23.d
Date Inj'd : 12/4/2018 8:03 am
Sample : l1849060-03,42e,,

QMethod : P7_pcb_04_10_18_ugL_ICAL
Operator : pest7:wr
Instrument : Pest 7
Quant Date : 12/6/2018 2:09 pm

Compound #3: Decachlorobiphenyl





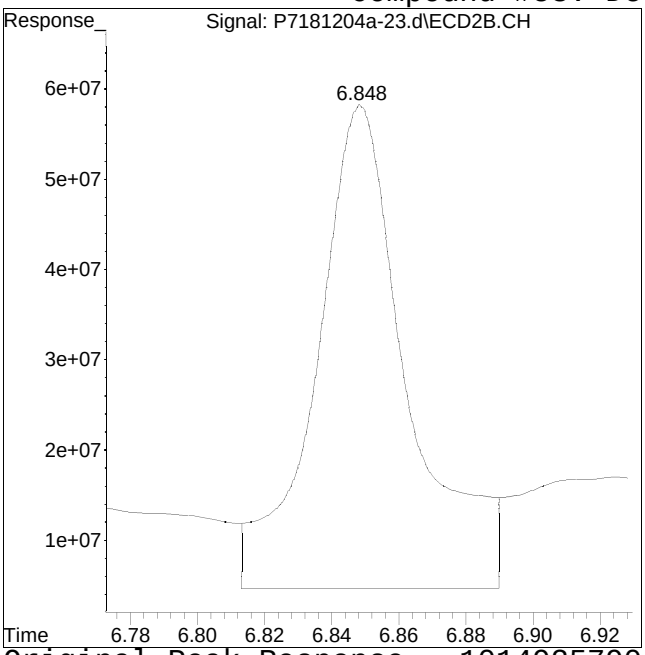
Original Peak Response = 281274614 Manual Peak Response = 669058287 M2
M2 = Peak not found by automatic integration algorithm.

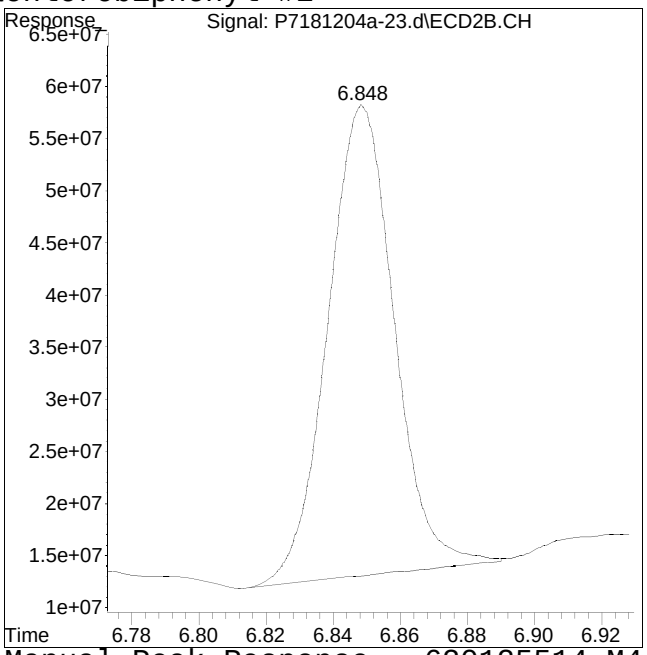
Manual Integration Report

Data Path : I:\Pest7\181204A\
Data File : P7181204a-23.d
Date Inj'd : 12/4/2018 8:03 am
Sample : l1849060-03,42e,,

QMethod : P7_pcb_04_10_18_ugL_ICAL
Operator : pest7:wr
Instrument : Pest 7
Quant Date : 12/6/2018 2:09 pm

Compound #53: Decachlorobiphenyl #2





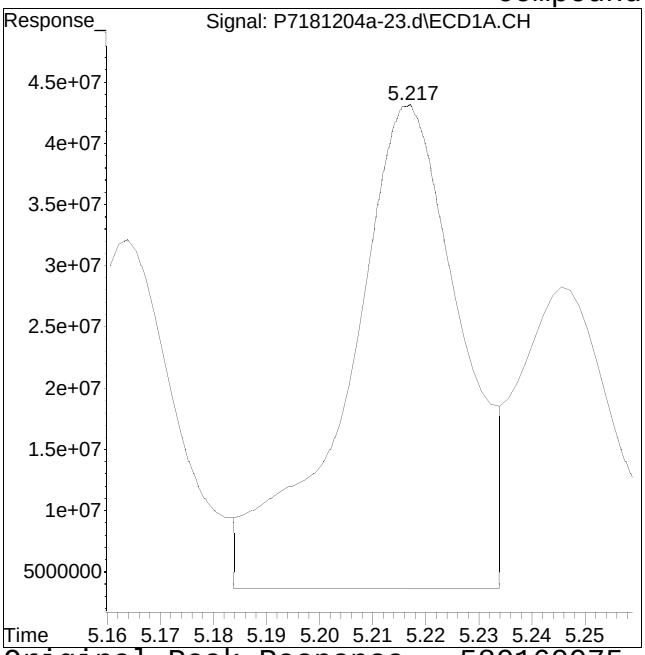
Original Peak Response = 1014925790 Manual Peak Response = 620125514 M4
M4 = Poor automated baseline construction.

Manual Integration Report

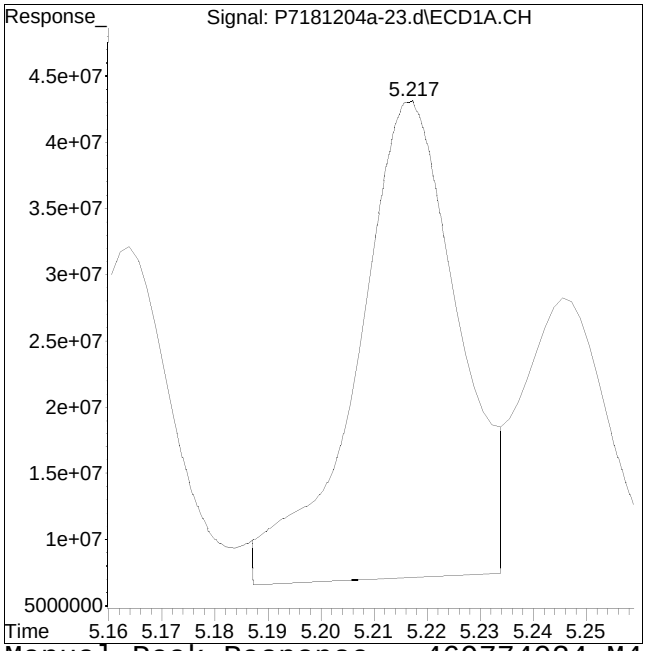
Data Path : I:\Pest7\181204A\
Data File : P7181204a-23.d
Date Inj'd : 12/4/2018 8:03 am
Sample : l1849060-03,42e,,

QMethod : P7_pcb_04_10_18_ugL_ICAL
Operator : pest7:wr
Instrument : Pest 7
Quant Date : 12/6/2018 2:09 pm

Compound #10: 1260-3



Original Peak Response = 580160975



Manual Peak Response = 469774024 M4

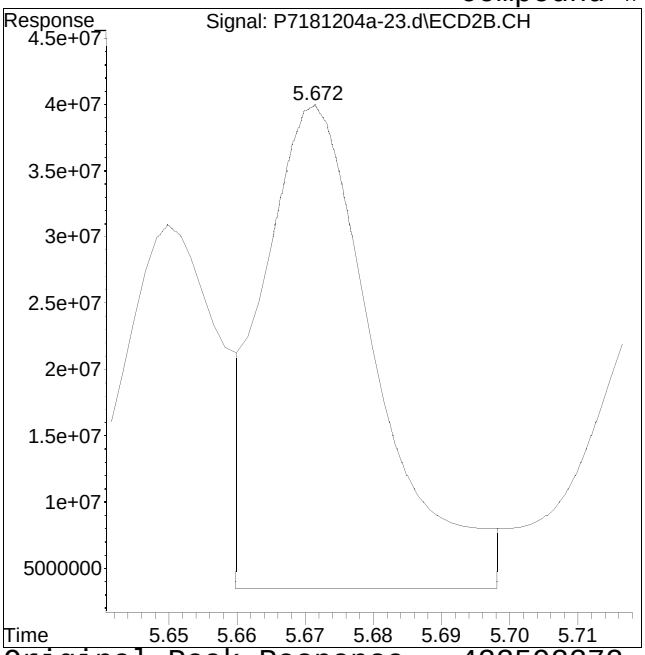
M4 = Poor automated baseline construction.

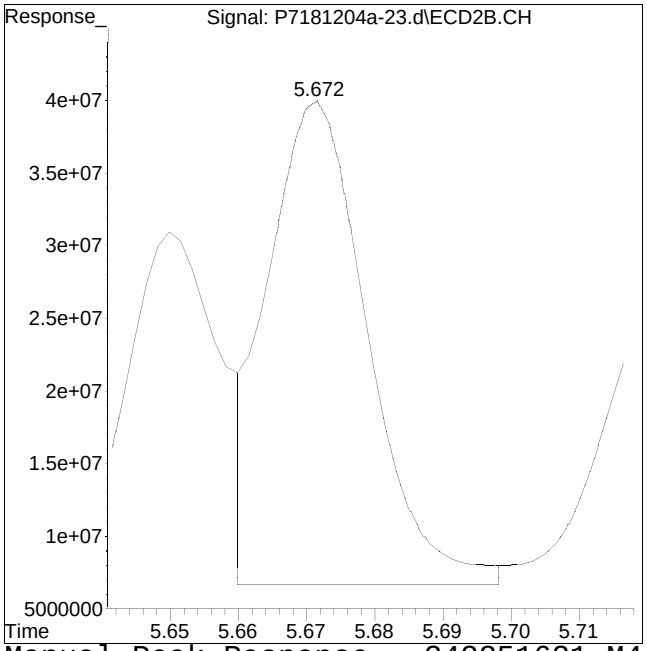
Manual Integration Report

Data Path : I:\Pest7\181204A\
Data File : P7181204a-23.d
Date Inj'd : 12/4/2018 8:03 am
Sample : l1849060-03,42e,,

QMethod : P7_pcb_04_10_18_ugL_ICAL
Operator : pest7:wr
Instrument : Pest 7
Quant Date : 12/6/2018 2:09 pm

Compound #60: 1260-3 #2





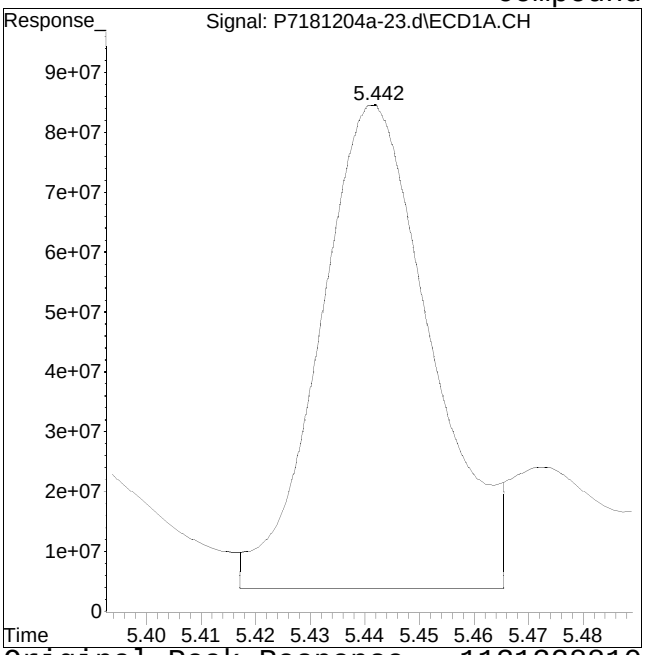
Original Peak Response = 423592372 Manual Peak Response = 342251621 M4
M4 = Poor automated baseline construction.

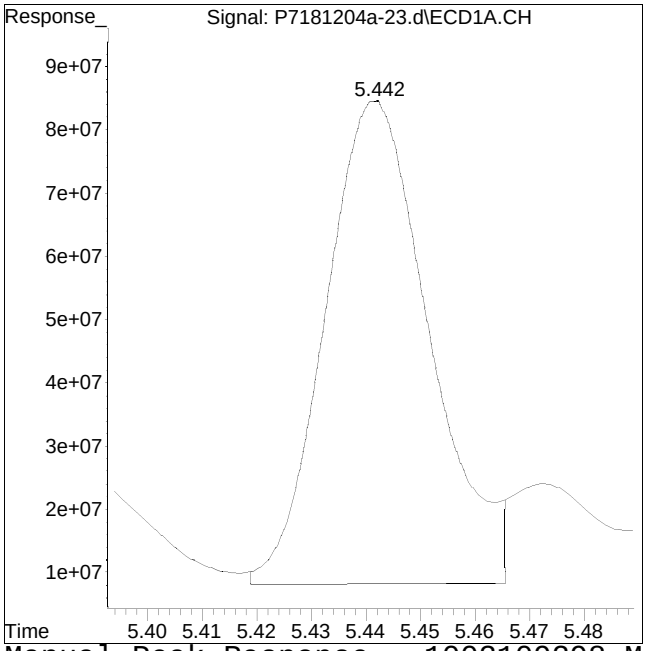
Manual Integration Report

Data Path : I:\Pest7\181204A\
Data File : P7181204a-23.d
Date Inj'd : 12/4/2018 8:03 am
Sample : l1849060-03,42e,,

QMethod : P7_pcb_04_10_18_ugL_ICAL
Operator : pest7:wr
Instrument : Pest 7
Quant Date : 12/6/2018 2:09 pm

Compound #11: 1260-4





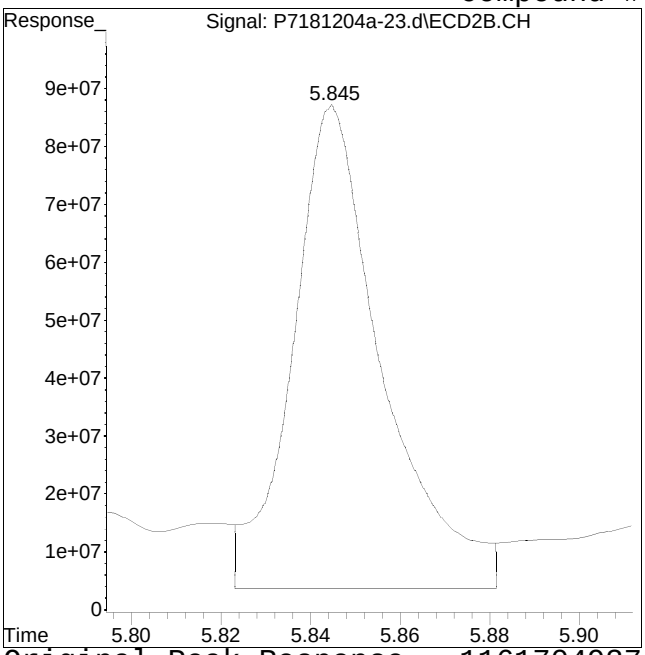
Original Peak Response = 1131328810 Manual Peak Response = 1003109298 M4
M4 = Poor automated baseline construction.

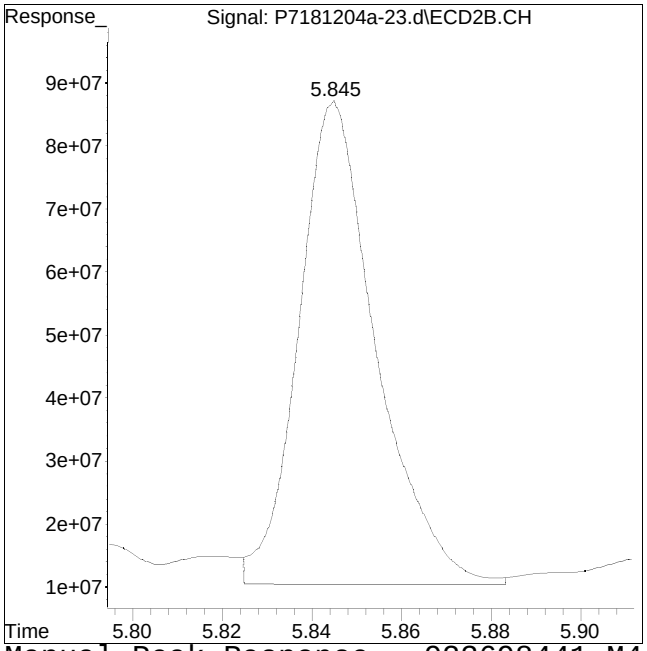
Manual Integration Report

Data Path : I:\Pest7\181204A\
Data File : P7181204a-23.d
Date Inj'd : 12/4/2018 8:03 am
Sample : l1849060-03,42e,,

QMethod : P7_pcb_04_10_18_ugL_ICAL
Operator : pest7:wr
Instrument : Pest 7
Quant Date : 12/6/2018 2:09 pm

Compound #61: 1260-4 #2





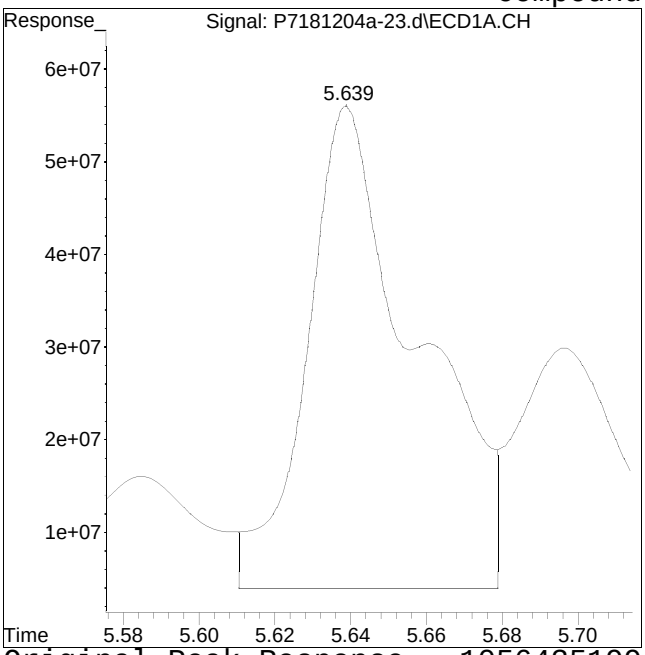
Original Peak Response = 1161704937 Manual Peak Response = 923698441 M4
M4 = Poor automated baseline construction.

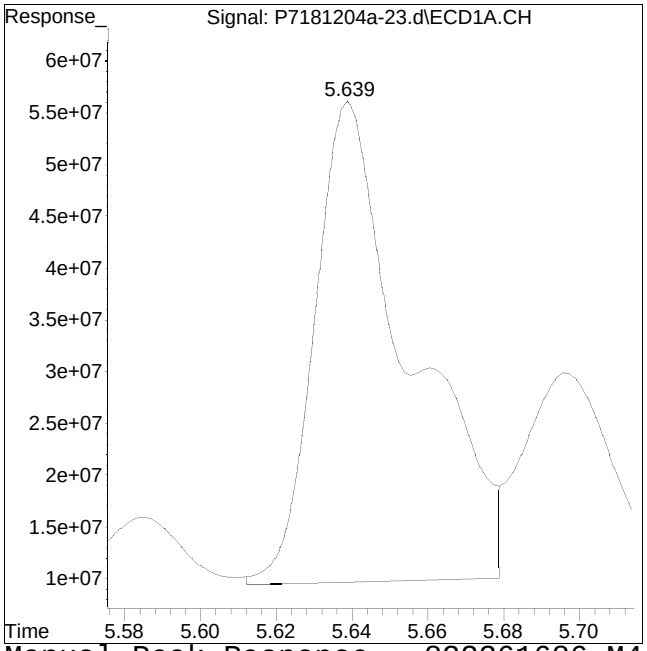
Manual Integration Report

Data Path : I:\Pest7\181204A\
Data File : P7181204a-23.d
Date Inj'd : 12/4/2018 8:03 am
Sample : l1849060-03,42e,,

QMethod : P7_pcb_04_10_18_ugL_ICAL
Operator : pest7:wr
Instrument : Pest 7
Quant Date : 12/6/2018 2:09 pm

Compound #12: 1260-5





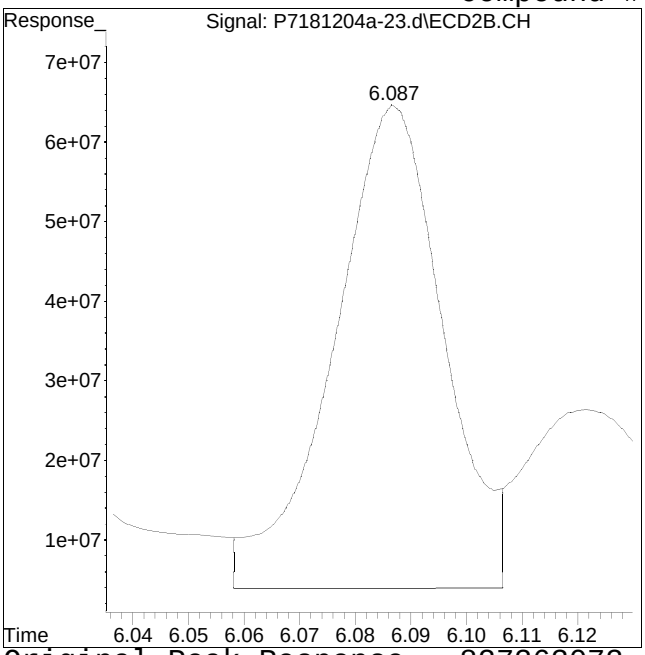
Original Peak Response = 1056435199 Manual Peak Response = 822361686 M4
M4 = Poor automated baseline construction.

Manual Integration Report

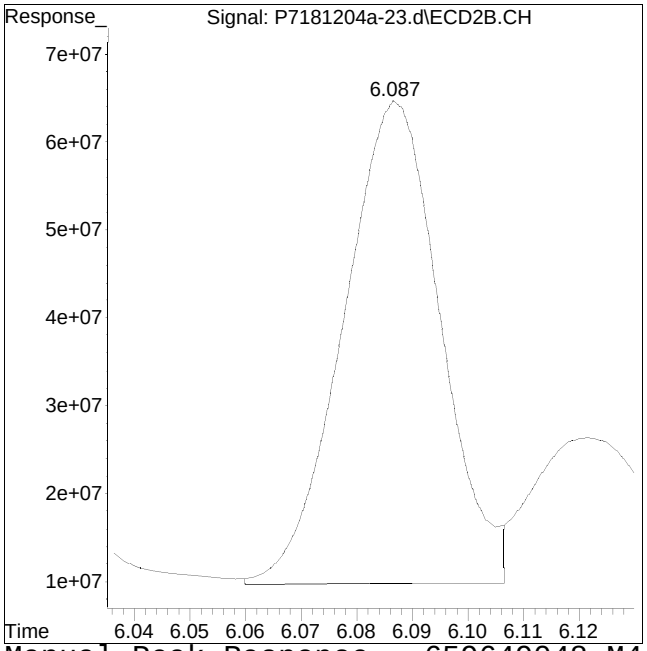
Data Path : I:\Pest7\181204A\
Data File : P7181204a-23.d
Date Inj'd : 12/4/2018 8:03 am
Sample : l1849060-03,42e,,

QMethod : P7_pcb_04_10_18_ugL_ICAL
Operator : pest7:wr
Instrument : Pest 7
Quant Date : 12/6/2018 2:09 pm

Compound #62: 1260-5 #2



Original Peak Response = 827363073



Manual Peak Response = 659649048 M4

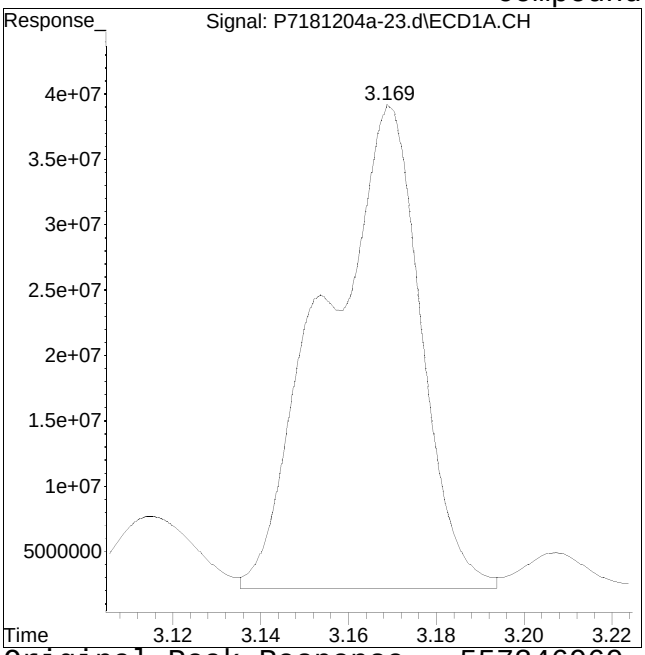
M4 = Poor automated baseline construction.

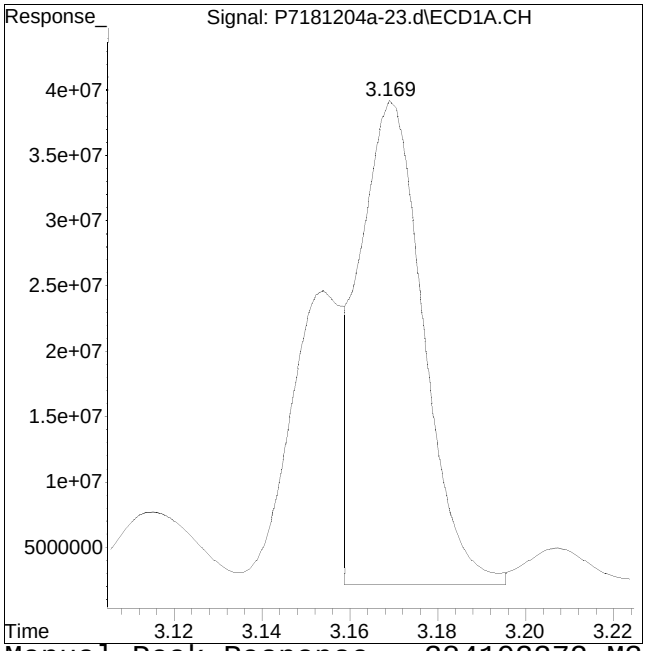
Manual Integration Report

Data Path : I:\Pest7\181204A\
Data File : P7181204a-23.d
Date Inj'd : 12/4/2018 8:03 am
Sample : l1849060-03,42e,,

QMethod : P7_pcb_04_10_18_ugL_ICAL
Operator : pest7:wr
Instrument : Pest 7
Quant Date : 12/6/2018 2:09 pm

Compound #24: 1242-2





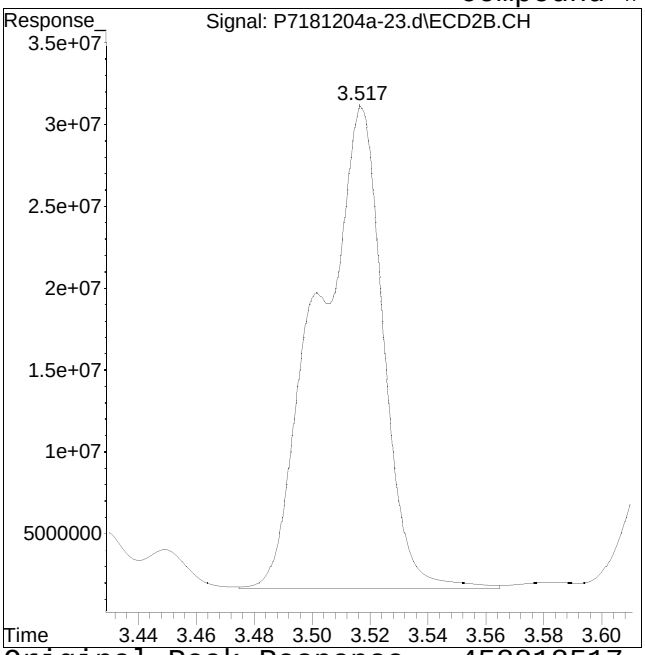
Original Peak Response = 557346960 Manual Peak Response = 384103372 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

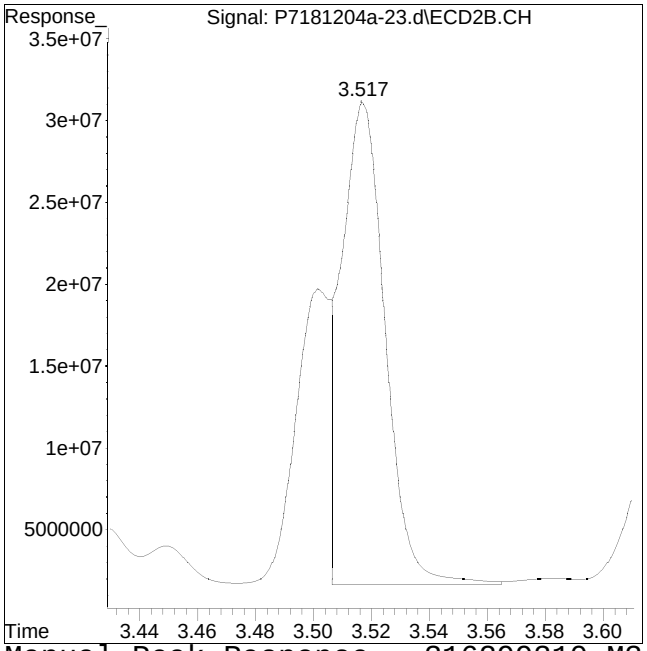
Manual Integration Report

Data Path : I:\Pest7\181204A\
Data File : P7181204a-23.d
Date Inj'd : 12/4/2018 8:03 am
Sample : l1849060-03,42e,,

QMethod : P7_pcb_04_10_18_ugL_ICAL
Operator : pest7:wr
Instrument : Pest 7
Quant Date : 12/6/2018 2:09 pm

Compound #74: 1242-2 #2





Original Peak Response = 458818517 Manual Peak Response = 316299310 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\181204A\
Data File : P7181204a-27.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2018 8:55 am
Operator : pest7:wr
Sample : l1849060-04,42e,,
Misc : wg1185226,wg1184841,ical14857
ALS Vial : 27 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 15:28:34 2018
Quant Method : I:\Pest7\181206A\P7_pcb_04_10_18_ugL_ICAL14857.m
Quant Title : pcb
QLast Update : Thu Dec 06 11:14:43 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest7\181204A\P7181204a-22.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.942	1.988	635.2E6	486.6E6	250.000	250.000
	Standard Area 1 : #1 = 600567641				Recovery =	105.76%	
	Standard Area 1 : #2 = 451289888				Recovery =	107.82%	
13) i	2154_1br2nb	1.942	1.988	635.2E6	486.6E6	250.000	250.000
22) i	4268_1br2nb	1.942	1.988	635.2E6	486.6E6	250.000	250.000
33) i	1248_1br2nb	1.942	1.988	635.2E6	486.6E6	250.000	250.000
39) i	3262_1br2nb	1.942	1.988	635.2E6	486.6E6	250.000	250.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.395	2.551	938.1E6	742.7E6	307.316	331.557
	Spiked Amount 500.000	Range 30 - 150		Recovery =		61.46%	66.31%
3) s	Decachlorobi	6.358	6.830	644.8E6	509.2E6	308.320M4	346.472M4
	Spiked Amount 500.000	Range 30 - 150		Recovery =		61.66%	69.29%
	Target Compounds						
4) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-2			0	0	N.D.	N.D.
	Average 1016-2					0.000	0.000
8) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
9) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-3	5.208	5.666	174.9E6	173.4E6	1249.501M4	1768.767M4
11) l2	1260-4	5.428	5.836	485.5E6	597.9E6	1567.332M4	3079.345M4
12) l2	1260-5	5.625	6.079	388.0E6	293.5E6	1926.591M3	2167.111M4

Data Path : I:\Pest7\181204A\
Data File : P7181204a-27.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2018 8:55 am
Operator : pest7:wr
Sample : l1849060-04,42e,,
Misc : wg1185226,wg1184841,ical14857
ALS Vial : 27 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 15:28:34 2018
Quant Method : I:\Pest7\181206A\P7_pcb_04_10_18_ugL_ICAL14857.m
Quant Title : pcb
QLast Update : Thu Dec 06 11:14:43 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest7\181204A\P7181204a-22.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Sum 1260-1			1048.5E6	1064.8E6	4743.424	7015.223
Average	1260-1					1581.141	2338.408
14) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
17) l4	1254-1	3.869	0.000	176.2E6	0	1538.604	N.D. d
18) l4	1254-2	0.000	4.496	0	250.7E6	N.D. d	2508.426
19) l4	1254-3	4.387	4.847	459.4E6	379.8E6	2519.383	2815.420
20) l4	1254-4	4.601	5.017	343.9E6	252.2E6	2562.307	2680.832
21) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1254-1			979.4E6	882.6E6	6620.294	8004.678
Average	1254-1					2206.765	2668.226
23) l6	1242-1	2.846	3.160	37419463	29839556	345.087	350.282
24) l6	1242-2	3.168	3.517	121.5E6	98004746	1044.061M3	1079.490M3
25) l6	1242-3	3.264	3.623	46590959	39490410	542.254	643.879
26) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1242-1			205.6E6	167.3E6	1931.401	2073.651
Average	1242-1					643.800	691.217
28) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
29) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1268-1			0	0	N.D.	N.D.

Data Path : I:\Pest7\181204A\
Data File : P7181204a-27.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2018 8:55 am
Operator : pest7:wr
Sample : l1849060-04,42e,,
Misc : wg1185226,wg1184841,ical14857
ALS Vial : 27 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 15:28:34 2018
Quant Method : I:\Pest7\181206A\P7_pcb_04_10_18_ugL_ICAL14857.m
Quant Title : pcb
QLast Update : Thu Dec 06 11:14:43 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest7\181204A\P7181204a-22.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1268-1					0.000	0.000
34) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
40) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
41) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
45) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
46) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\181204A\
Data File : P7181204a-27.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2018 8:55 am
Operator : pest7:wr
Sample : l1849060-04,42e,,
Misc : wg1185226,wg1184841,ical14857
ALS Vial : 27 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 15:28:34 2018
Quant Method : I:\Pest7\181206A\P7_pcb_04_10_18_ugL_ICAL14857.m
Quant Title : pcb
QLast Update : Thu Dec 06 11:14:43 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest7\181204A\P7181204a-22.d
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

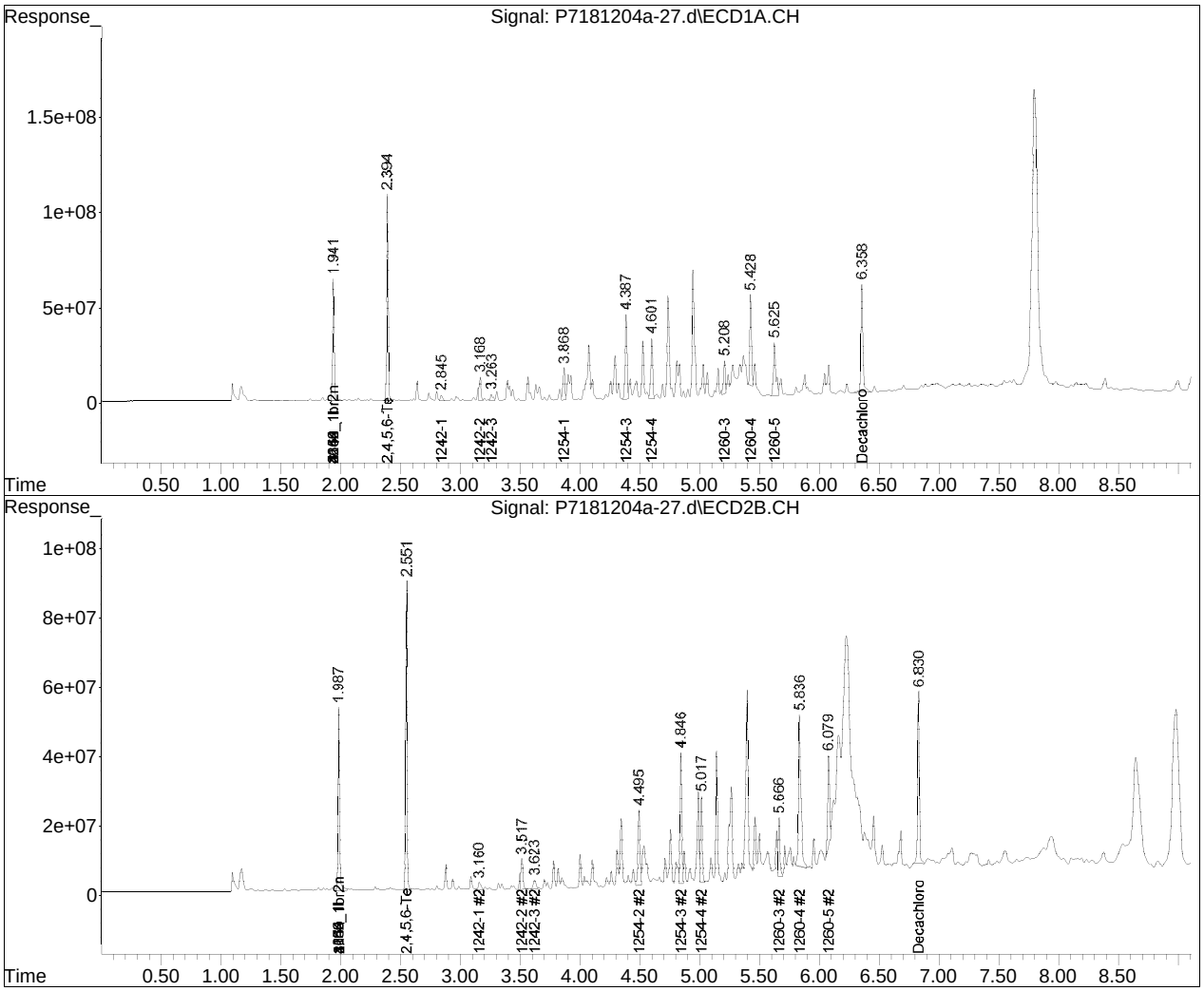
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed-22.d••ed)

Data Path : I:\Pest7\181204A\
Data File : P7181204a-27.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2018 8:55 am
Operator : pest7:wr
Sample : l1849060-04,42e,,
Misc : wg1185226,wg1184841,ical14857
ALS Vial : 27 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 15:28:34 2018
Quant Method : I:\Pest7\181206A\P7_pcb_04_10_18_ugL_ICAL14857.m
Quant Title : pcb
QLast Update : Thu Dec 06 11:14:43 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

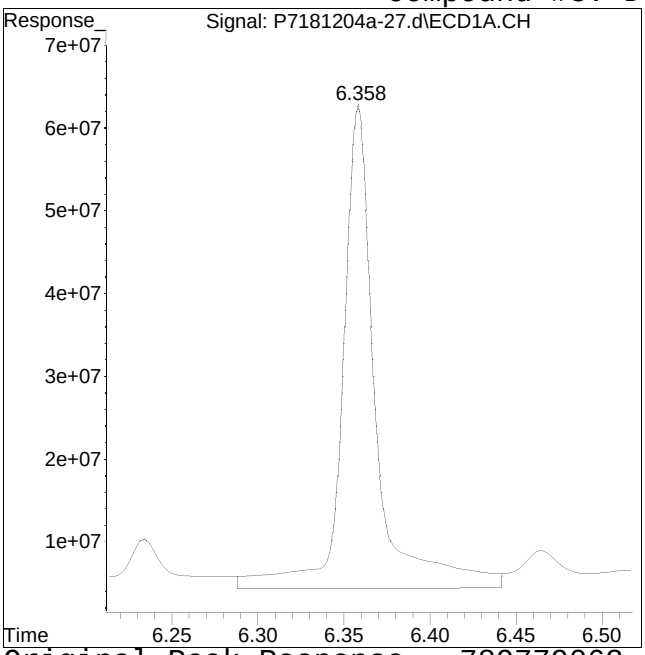


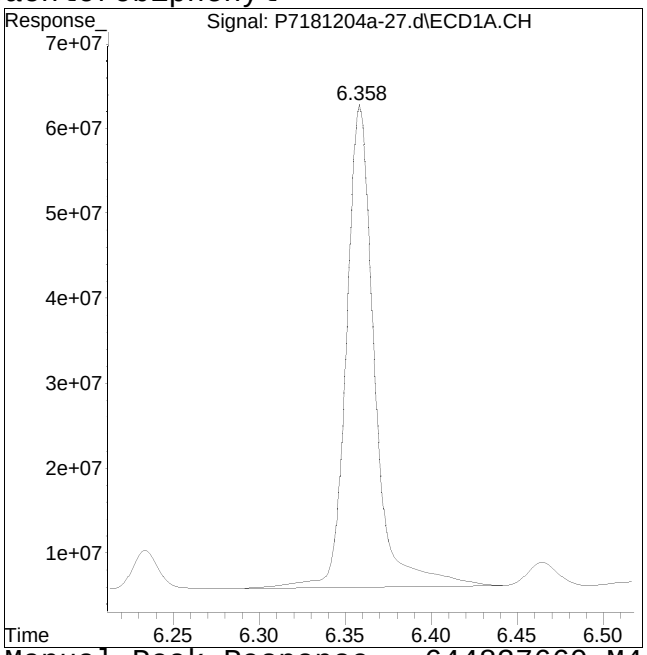
Manual Integration Report

Data Path : I:\Pest7\181204A\
Data File : P7181204a-27.d
Date Inj'd : 12/4/2018 8:55 am
Sample : l1849060-04,42e,,

QMethod : P7_pcb_04_10_18_ugL_ICAL
Operator : pest7:wr
Instrument : Pest 7
Quant Date : 12/6/2018 2:10 pm

Compound #3: Decachlorobiphenyl





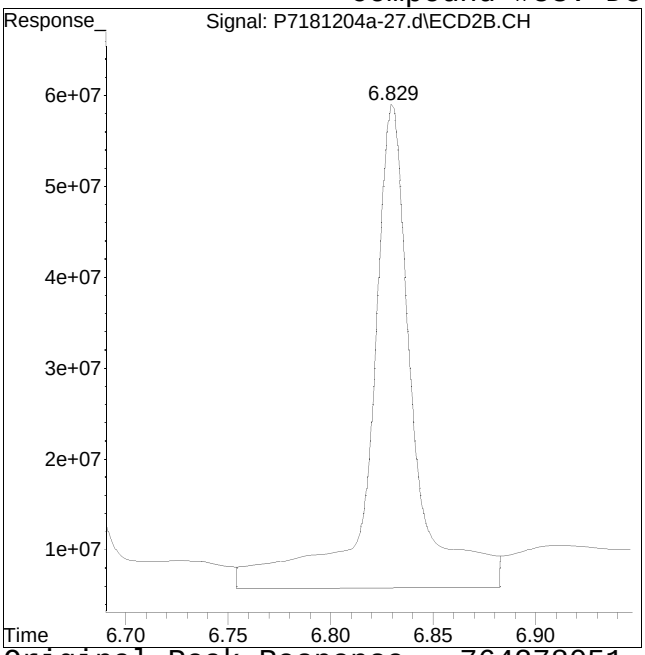
Original Peak Response = 789779063 Manual Peak Response = 644837660 M4
M4 = Poor automated baseline construction.

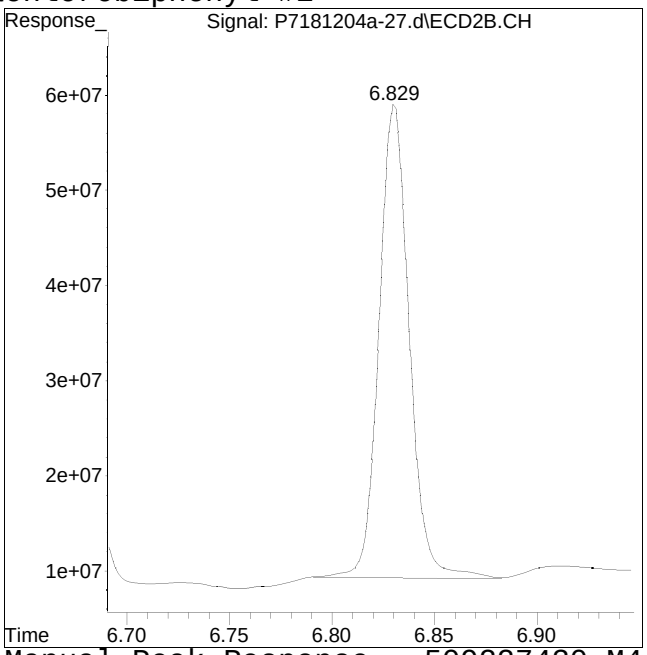
Manual Integration Report

Data Path : I:\Pest7\181204A\
Data File : P7181204a-27.d
Date Inj'd : 12/4/2018 8:55 am
Sample : l1849060-04,42e,,

QMethod : P7_pcb_04_10_18_ugL_ICAL
Operator : pest7:wr
Instrument : Pest 7
Quant Date : 12/6/2018 2:10 pm

Compound #53: Decachlorobiphenyl #2





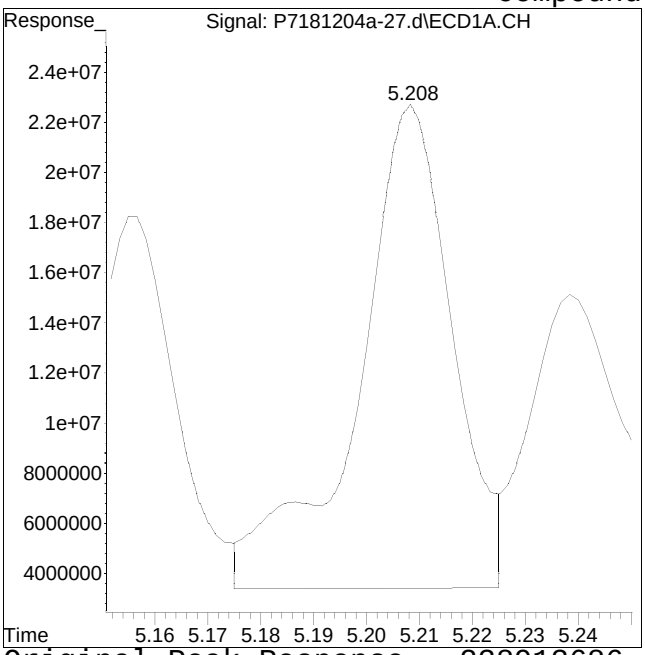
Original Peak Response = 764278051 Manual Peak Response = 509227430 M4
M4 = Poor automated baseline construction.

Manual Integration Report

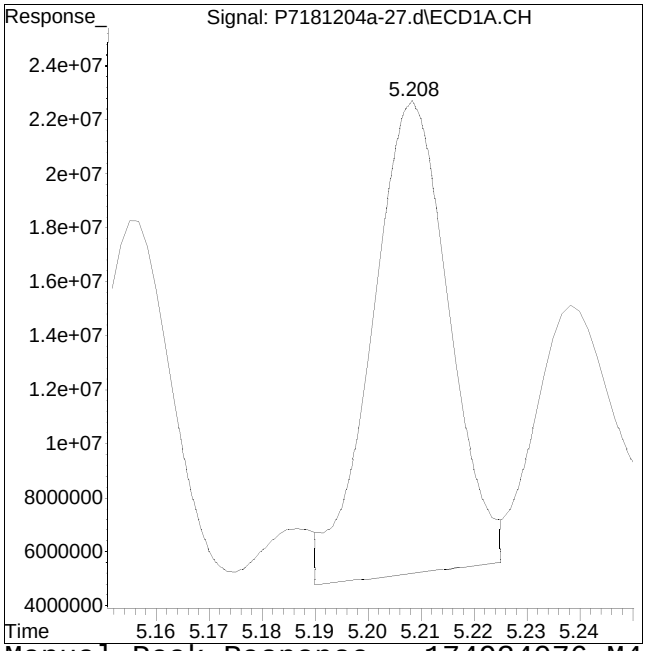
Data Path : I:\Pest7\181204A\
Data File : P7181204a-27.d
Date Inj'd : 12/4/2018 8:55 am
Sample : l1849060-04,42e,,

QMethod : P7_pcb_04_10_18_ugL_ICAL
Operator : pest7:wr
Instrument : Pest 7
Quant Date : 12/6/2018 2:10 pm

Compound #10: 1260-3



Original Peak Response = 238913686



Manual Peak Response = 174934076 M4

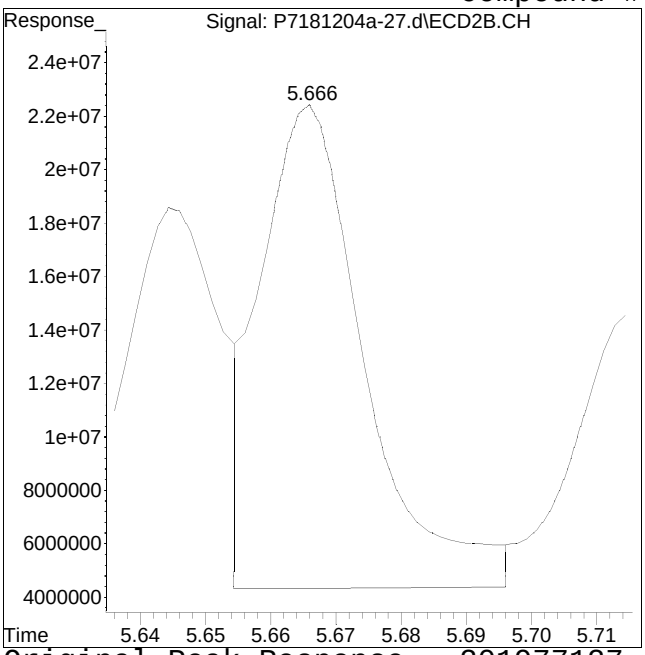
M4 = Poor automated baseline construction.

Manual Integration Report

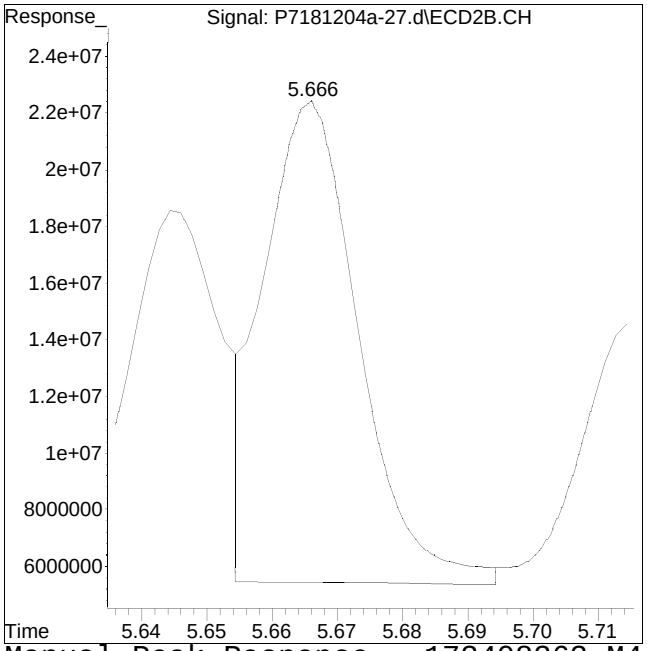
Data Path : I:\Pest7\181204A\
Data File : P7181204a-27.d
Date Inj'd : 12/4/2018 8:55 am
Sample : l1849060-04,42e,,

QMethod : P7_pcb_04_10_18_ugL_ICAL
Operator : pest7:wr
Instrument : Pest 7
Quant Date : 12/6/2018 2:10 pm

Compound #60: 1260-3 #2



Original Peak Response = 201977127



Manual Peak Response = 173408363 M4

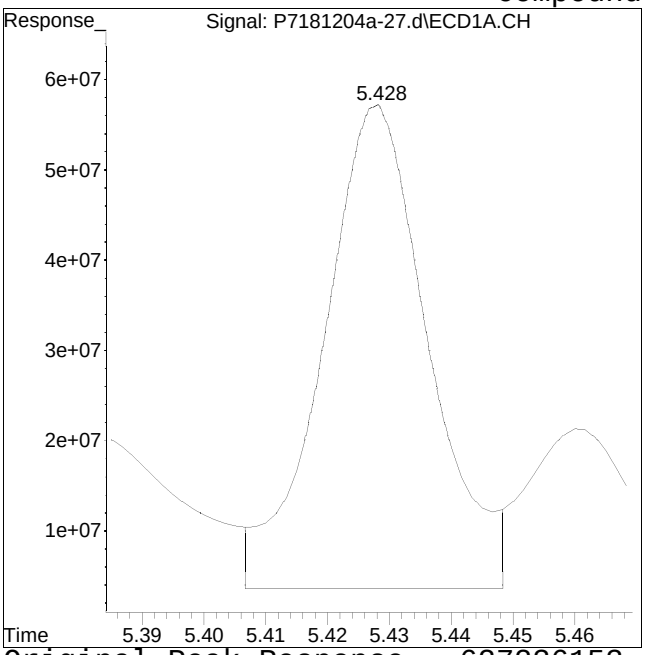
M4 = Poor automated baseline construction.

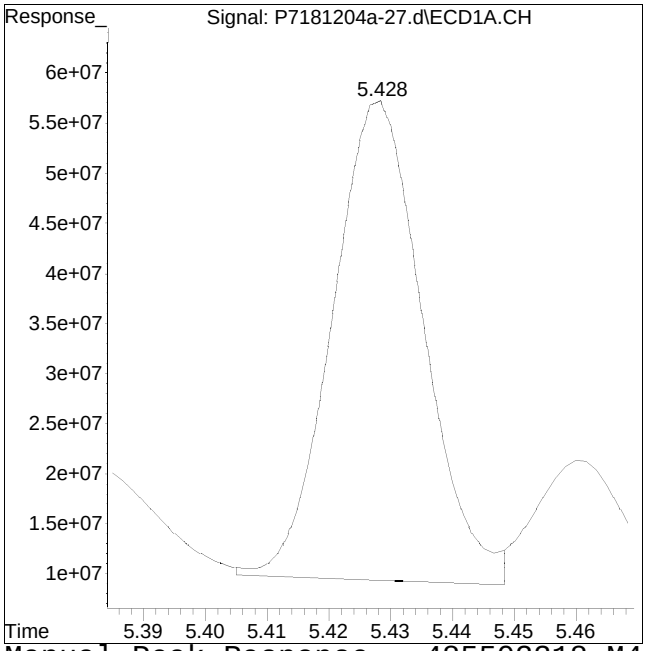
Manual Integration Report

Data Path : I:\Pest7\181204A\
Data File : P7181204a-27.d
Date Inj'd : 12/4/2018 8:55 am
Sample : l1849060-04,42e,,

QMethod : P7_pcb_04_10_18_ugL_ICAL
Operator : pest7:wr
Instrument : Pest 7
Quant Date : 12/6/2018 2:10 pm

Compound #11: 1260-4





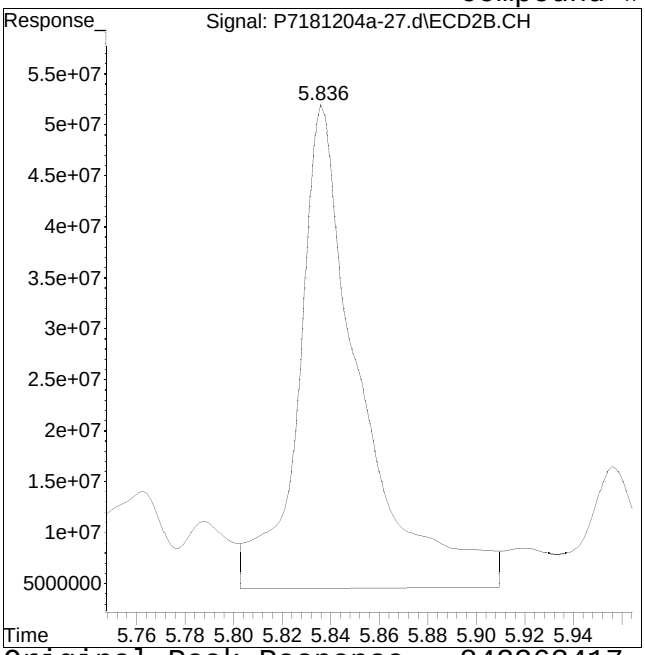
Original Peak Response = 627236153 Manual Peak Response = 485503318 M4
M4 = Poor automated baseline construction.

Manual Integration Report

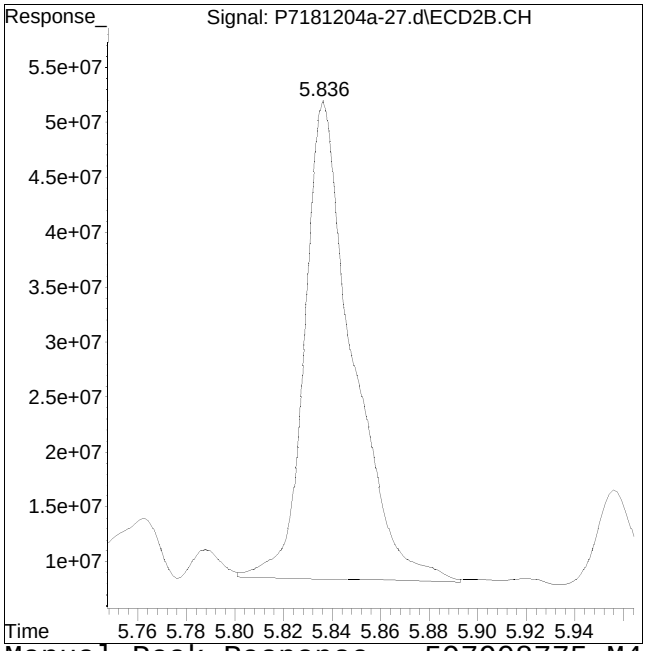
Data Path : I:\Pest7\181204A\
Data File : P7181204a-27.d
Date Inj'd : 12/4/2018 8:55 am
Sample : l1849060-04,42e,,

QMethod : P7_pcb_04_10_18_ugL_ICAL
Operator : pest7:wr
Instrument : Pest 7
Quant Date : 12/6/2018 2:10 pm

Compound #61: 1260-4 #2



Original Peak Response = 842363417



Manual Peak Response = 597908775 M4

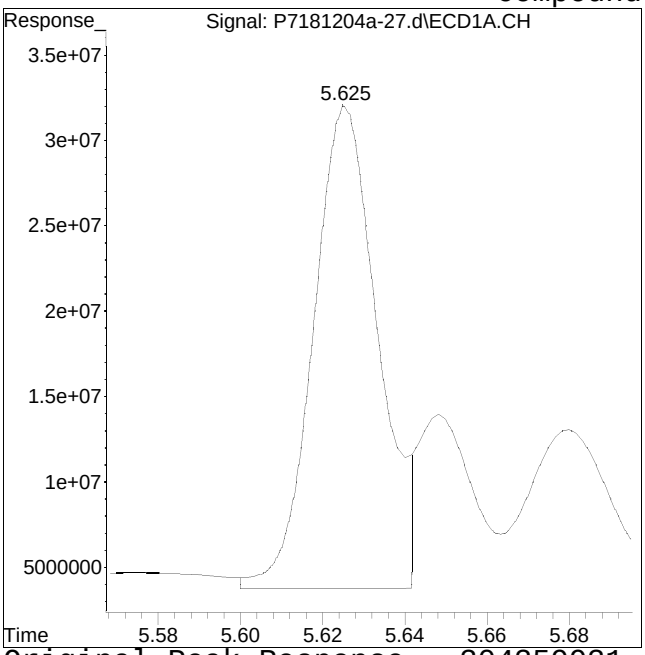
M4 = Poor automated baseline construction.

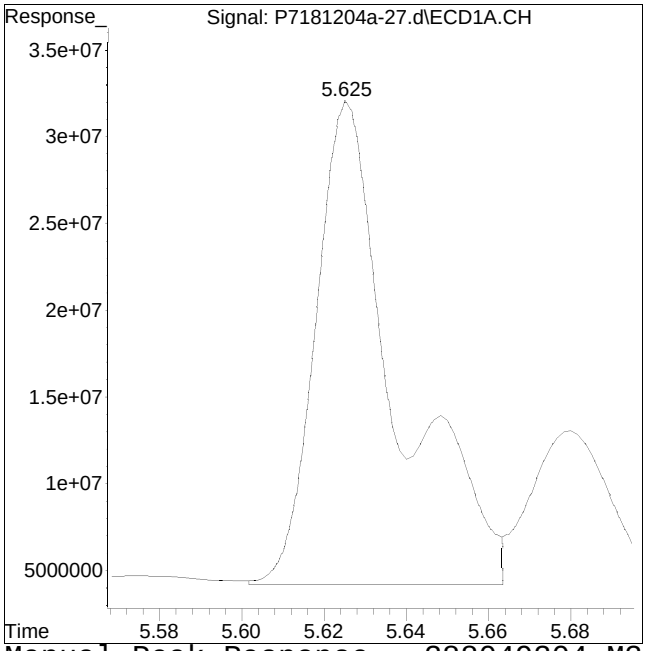
Manual Integration Report

Data Path : I:\Pest7\181204A\
Data File : P7181204a-27.d
Date Inj'd : 12/4/2018 8:55 am
Sample : l1849060-04,42e,,

QMethod : P7_pcb_04_10_18_ugL_ICAL
Operator : pest7:wr
Instrument : Pest 7
Quant Date : 12/6/2018 2:10 pm

Compound #12: 1260-5





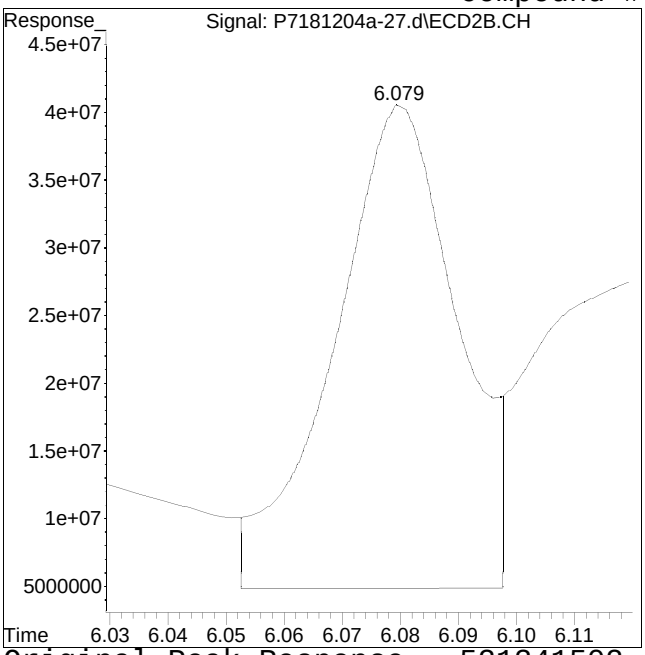
Original Peak Response = 304359931 Manual Peak Response = 388049304 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

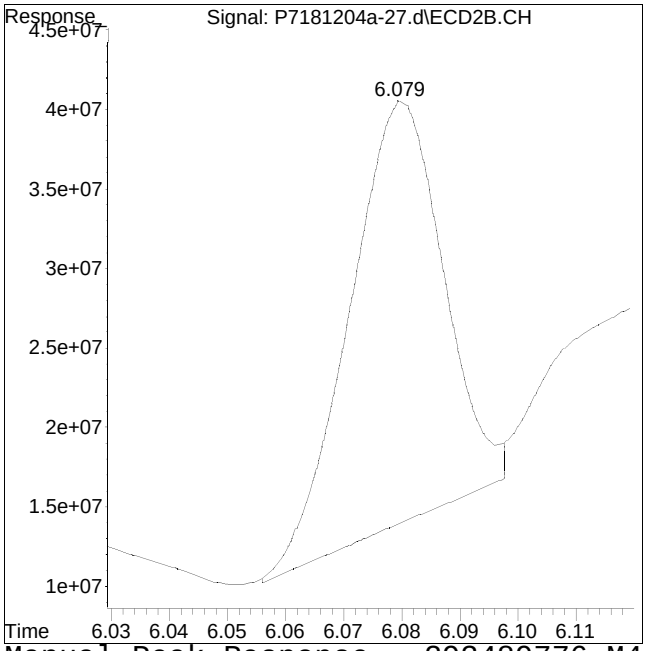
Manual Integration Report

Data Path : I:\Pest7\181204A\
Data File : P7181204a-27.d
Date Inj'd : 12/4/2018 8:55 am
Sample : l1849060-04,42e,,

QMethod : P7_pcb_04_10_18_ugL_ICAL
Operator : pest7:wr
Instrument : Pest 7
Quant Date : 12/6/2018 2:10 pm

Compound #62: 1260-5 #2





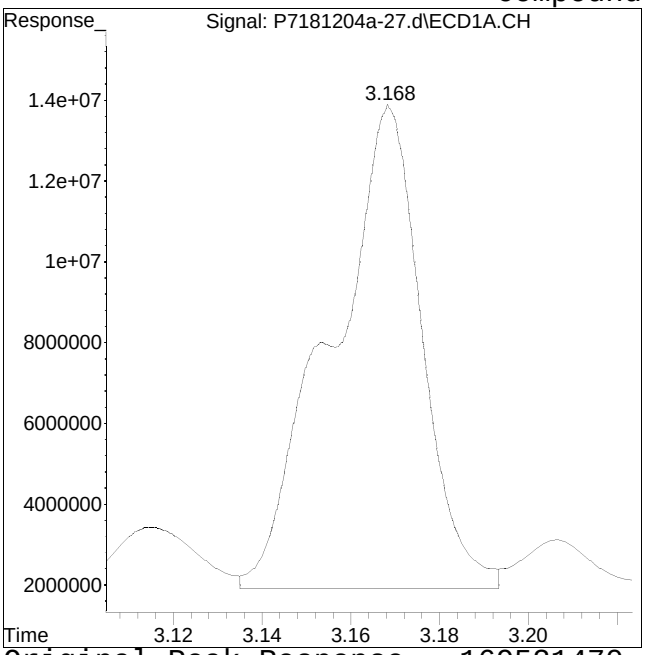
Original Peak Response = 521341502 Manual Peak Response = 293489776 M4
M4 = Poor automated baseline construction.

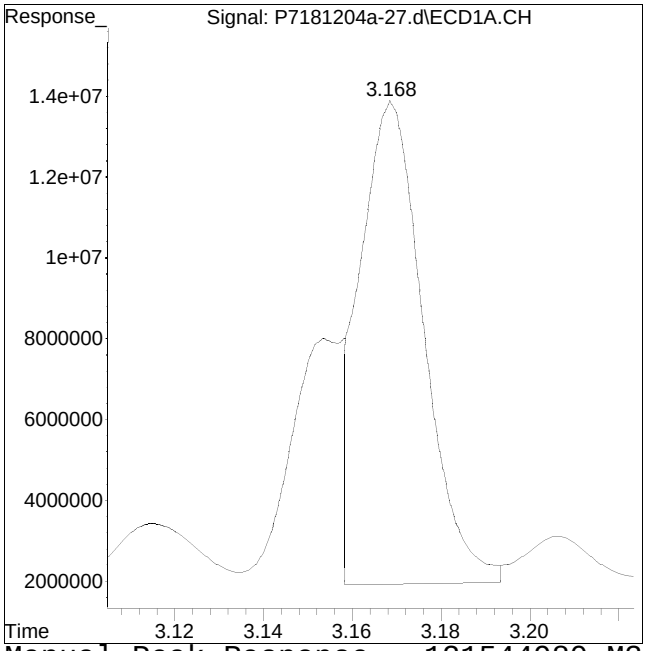
Manual Integration Report

Data Path : I:\Pest7\181204A\
Data File : P7181204a-27.d
Date Inj'd : 12/4/2018 8:55 am
Sample : l1849060-04,42e,,

QMethod : P7_pcb_04_10_18_ugL_ICAL
Operator : pest7:wr
Instrument : Pest 7
Quant Date : 12/6/2018 2:10 pm

Compound #24: 1242-2





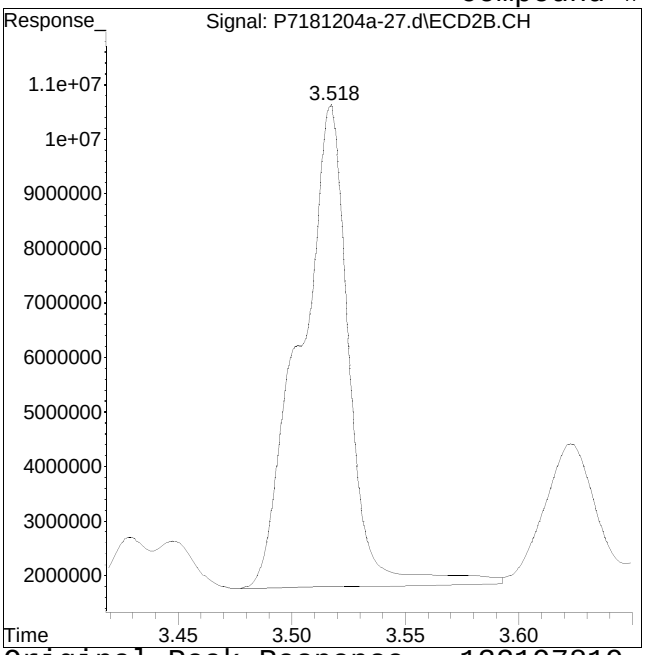
Original Peak Response = 169521470 Manual Peak Response = 121544980 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

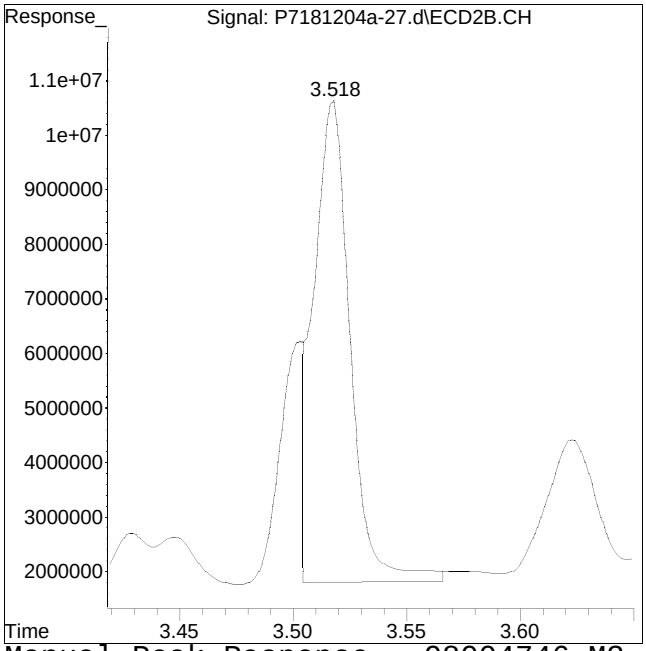
Manual Integration Report

Data Path : I:\Pest7\181204A\
Data File : P7181204a-27.d
Date Inj'd : 12/4/2018 8:55 am
Sample : l1849060-04,42e,,

QMethod : P7_pcb_04_10_18_ugL_ICAL
Operator : pest7:wr
Instrument : Pest 7
Quant Date : 12/6/2018 2:10 pm

Compound #74: 1242-2 #2





Original Peak Response = 132197819 Manual Peak Response = 98004746 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\181204A\
Data File : P7181204a-29.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2018 9:20 am
Operator : pest7:wr
Sample : l1849060-06,42e,,
Misc : wg1185226,wg1184841,ical14857
ALS Vial : 29 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 15:26:40 2018
Quant Method : I:\Pest7\181206A\P7_pcb_04_10_18_ugL_ICAL14857.m
Quant Title : pcb
QLast Update : Thu Dec 06 11:14:43 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest7\181204A\P7181204a-22.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.943	1.988	600.2E6	472.0E6	250.000	250.000
	Standard Area 1 : #1 = 600567641				Recovery =		99.94%
	Standard Area 1 : #2 = 451289888				Recovery =		104.58%
13) i	2154_1br2nb	1.943	1.988	600.2E6	472.0E6	250.000	250.000
22) i	4268_1br2nb	1.943	1.988	600.2E6	472.0E6	250.000	250.000
33) i	1248_1br2nb	1.943	1.988	600.2E6	472.0E6	250.000	250.000
39) i	3262_1br2nb	1.943	1.988	600.2E6	472.0E6	250.000	250.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.395	2.552	922.9E6	806.5E6	319.958	371.177
	Spiked Amount 500.000	Range 30 - 150		Recovery =		63.99%	74.24%
3) s	Decachlorobi	6.385f	6.846	629.9E6	646.1E6	318.739M4	453.188M4
	Spiked Amount 500.000	Range 30 - 150		Recovery =		63.75%	90.64%
	Target Compounds						
4) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-2			0	0	N.D.	N.D.
	Average 1016-2					0.000	0.000
8) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
9) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-3	5.216f	5.671f	384.4E6	264.3E6	2905.984M4	2779.631M4
11) l2	1260-4	5.440f	5.844f	749.7E6	902.7E6	2561.348M4	4793.185M4
12) l2	1260-5	5.637f	6.086f	624.3E6	510.6E6	3280.170M4	3886.615M4

Data Path : I:\Pest7\181204A\
Data File : P7181204a-29.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2018 9:20 am
Operator : pest7:wr
Sample : l1849060-06,42e,,
Misc : wg1185226,wg1184841,ical14857
ALS Vial : 29 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 15:26:40 2018
Quant Method : I:\Pest7\181206A\P7_pcb_04_10_18_ugL_ICAL14857.m
Quant Title : pcb
QLast Update : Thu Dec 06 11:14:43 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest7\181204A\P7181204a-22.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Sum 1260-1			1758.5E6	1677.6E6	8747.502	11459.431
Average	1260-1					2915.834	3819.810
14) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
17) l4	1254-1	3.871	0.000	270.5E6	0	2500.553	N.D. d
18) l4	1254-2	0.000	4.498	0	406.2E6	N.D. d	4190.813
19) l4	1254-3	4.391	4.851	703.4E6	600.2E6	4082.852	4587.141
20) l4	1254-4	4.608	5.022	559.9E6	478.5E6	4415.101	5243.966
21) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1254-1			1533.9E6	1484.9E6	10998.506	14021.919
Average	1254-1					3666.169	4673.973
23) l6	1242-1	2.847	3.161	123.8E6	81134909	1208.019	981.904
24) l6	1242-2	3.170	3.518	291.8E6	239.4E6	2652.710M3	2718.954M3
25) l6	1242-3	3.264	3.623	149.8E6	121.5E6	1844.754	2042.907
26) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1242-1			565.4E6	442.1E6	5705.482	5743.765
Average	1242-1					1901.827	1914.588
28) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
29) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1268-1			0	0	N.D.	N.D.

Data Path : I:\Pest7\181204A\
Data File : P7181204a-29.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2018 9:20 am
Operator : pest7:wr
Sample : l1849060-06,42e,,
Misc : wg1185226,wg1184841,ical14857
ALS Vial : 29 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 15:26:40 2018
Quant Method : I:\Pest7\181206A\P7_pcb_04_10_18_ugL_ICAL14857.m
Quant Title : pcb
QLast Update : Thu Dec 06 11:14:43 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest7\181204A\P7181204a-22.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1268-1					0.000	0.000
34) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
40) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
41) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
45) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
46) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\181204A\
Data File : P7181204a-29.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2018 9:20 am
Operator : pest7:wr
Sample : l1849060-06,42e,,
Misc : wg1185226,wg1184841,ical14857
ALS Vial : 29 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 15:26:40 2018
Quant Method : I:\Pest7\181206A\P7_pcb_04_10_18_ugL_ICAL14857.m
Quant Title : pcb
QLast Update : Thu Dec 06 11:14:43 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest7\181204A\P7181204a-22.d
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

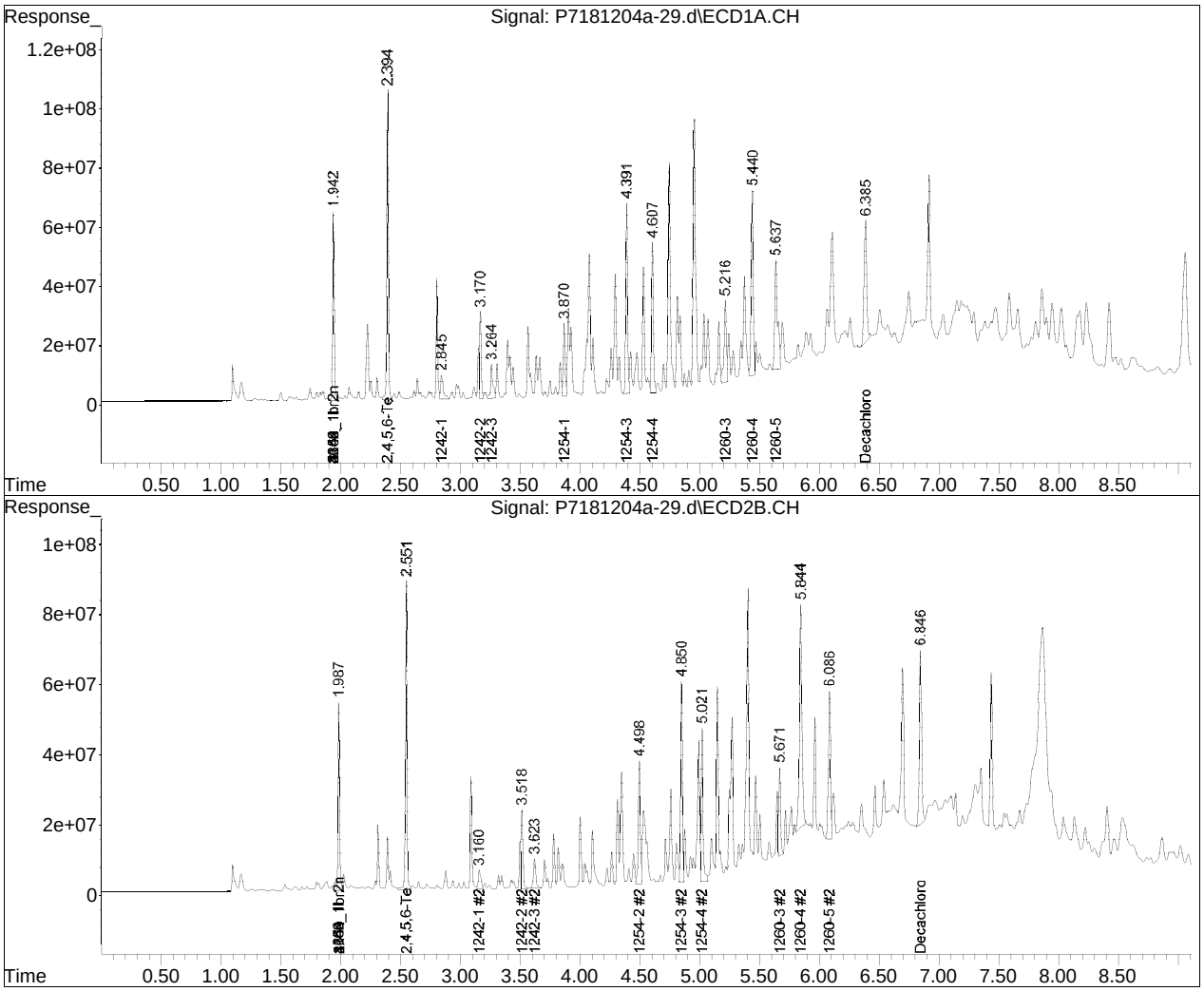
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed-22.d••ed)

Data Path : I:\Pest7\181204A\
Data File : P7181204a-29.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2018 9:20 am
Operator : pest7:wr
Sample : l1849060-06,42e,,
Misc : wg1185226,wg1184841,ical14857
ALS Vial : 29 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 15:26:40 2018
Quant Method : I:\Pest7\181206A\P7_pcb_04_10_18_ugL_ICAL14857.m
Quant Title : pcb
QLast Update : Thu Dec 06 11:14:43 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

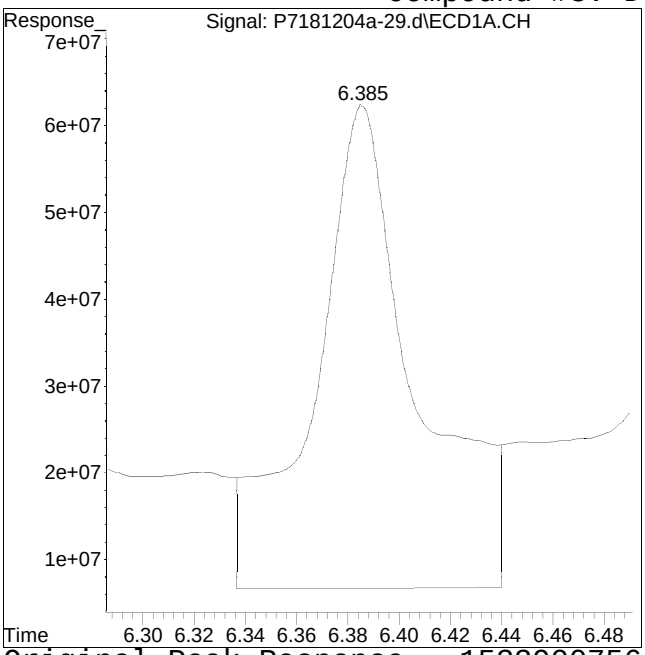


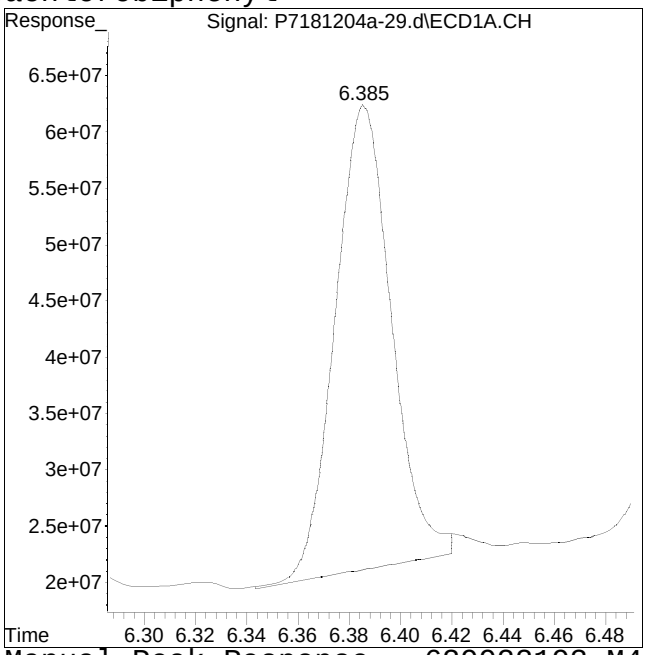
Manual Integration Report

Data Path : I:\Pest7\181204A\
Data File : P7181204a-29.d
Date Inj'd : 12/4/2018 9:20 am
Sample : l1849060-06,42e,,

QMethod : P7_pcb_04_10_18_ugL_ICAL
Operator : pest7:wr
Instrument : Pest 7
Quant Date : 12/6/2018 2:10 pm

Compound #3: Decachlorobiphenyl





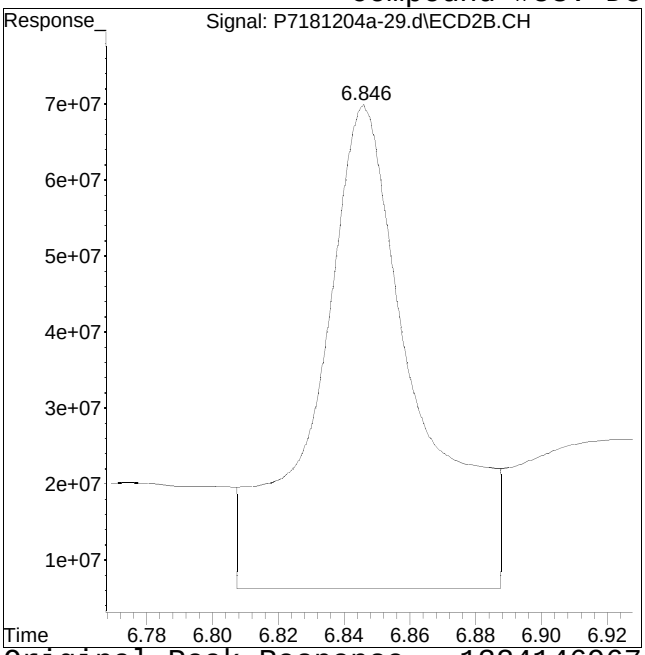
Original Peak Response = 1533900756 Manual Peak Response = 629922193 M4
M4 = Poor automated baseline construction.

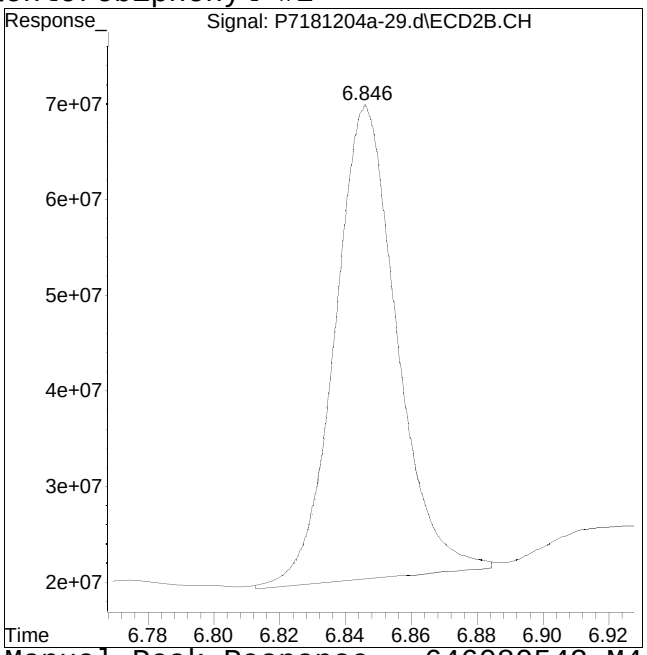
Manual Integration Report

Data Path : I:\Pest7\181204A\
Data File : P7181204a-29.d
Date Inj'd : 12/4/2018 9:20 am
Sample : l1849060-06,42e,,

QMethod : P7_pcb_04_10_18_ugL_ICAL
Operator : pest7:wr
Instrument : Pest 7
Quant Date : 12/6/2018 2:10 pm

Compound #53: Decachlorobiphenyl #2





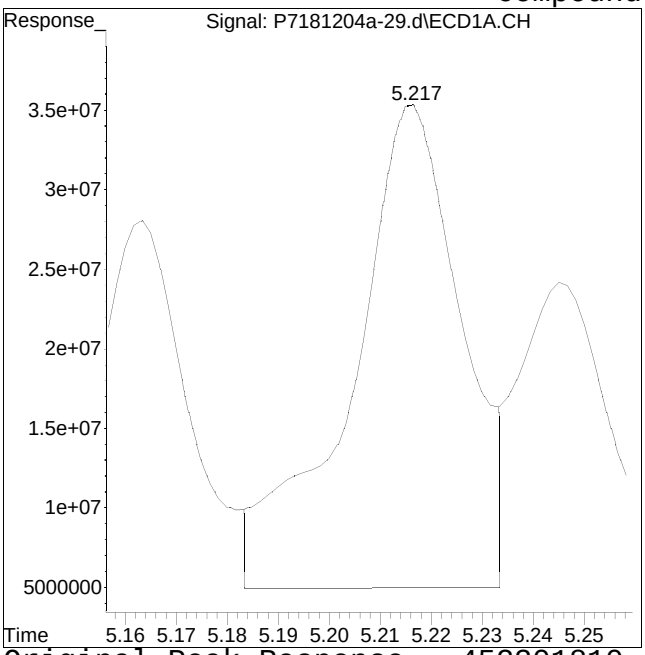
Original Peak Response = 1324146967 Manual Peak Response = 646080542 M4
M4 = Poor automated baseline construction.

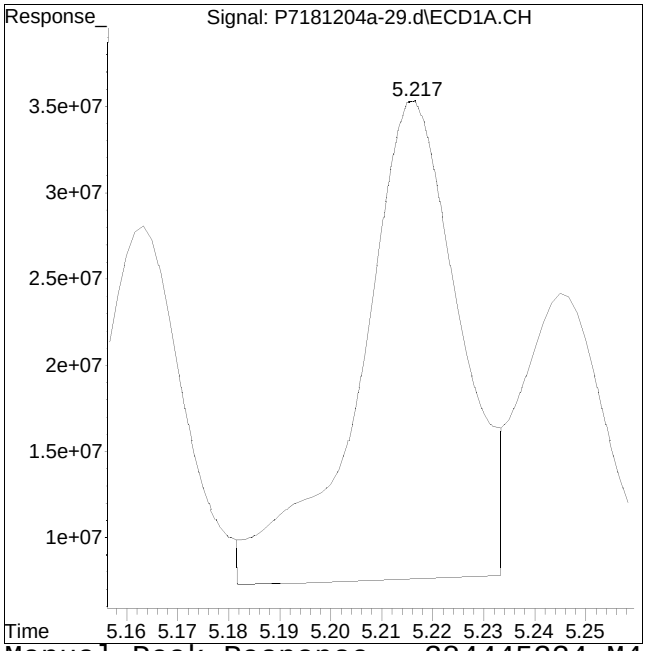
Manual Integration Report

Data Path : I:\Pest7\181204A\
Data File : P7181204a-29.d
Date Inj'd : 12/4/2018 9:20 am
Sample : l1849060-06,42e,,

QMethod : P7_pcb_04_10_18_ugL_ICAL
Operator : pest7:wr
Instrument : Pest 7
Quant Date : 12/6/2018 2:10 pm

Compound #10: 1260-3





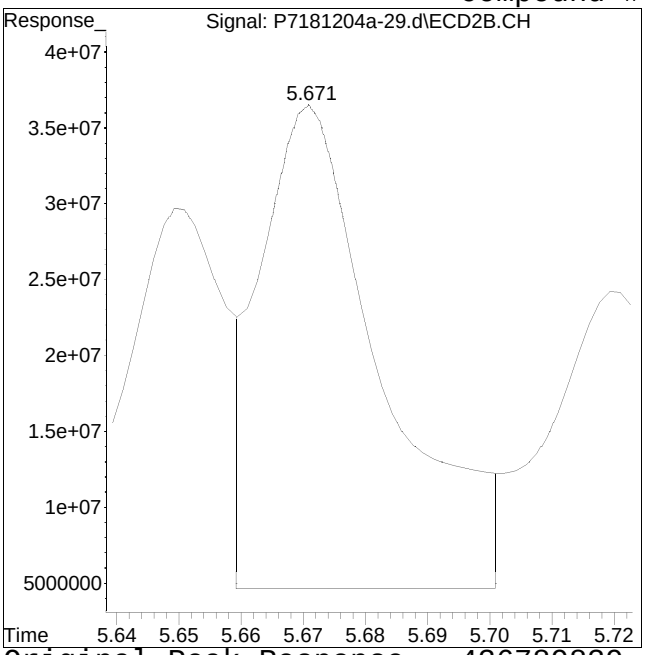
Original Peak Response = 452301810 Manual Peak Response = 384445334 M4
M4 = Poor automated baseline construction.

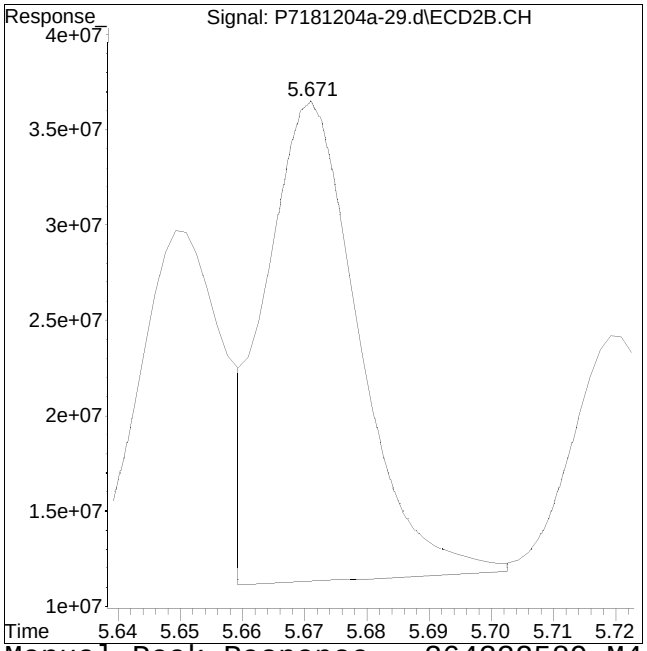
Manual Integration Report

Data Path : I:\Pest7\181204A\
Data File : P7181204a-29.d
Date Inj'd : 12/4/2018 9:20 am
Sample : l1849060-06,42e,,

QMethod : P7_pcb_04_10_18_ugL_ICAL
Operator : pest7:wr
Instrument : Pest 7
Quant Date : 12/6/2018 2:10 pm

Compound #60: 1260-3 #2





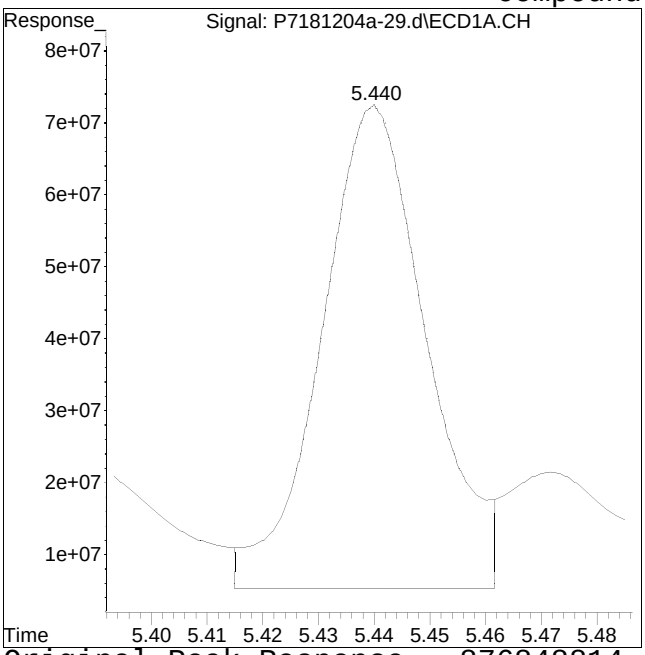
Original Peak Response = 436789839 Manual Peak Response = 264332589 M4
M4 = Poor automated baseline construction.

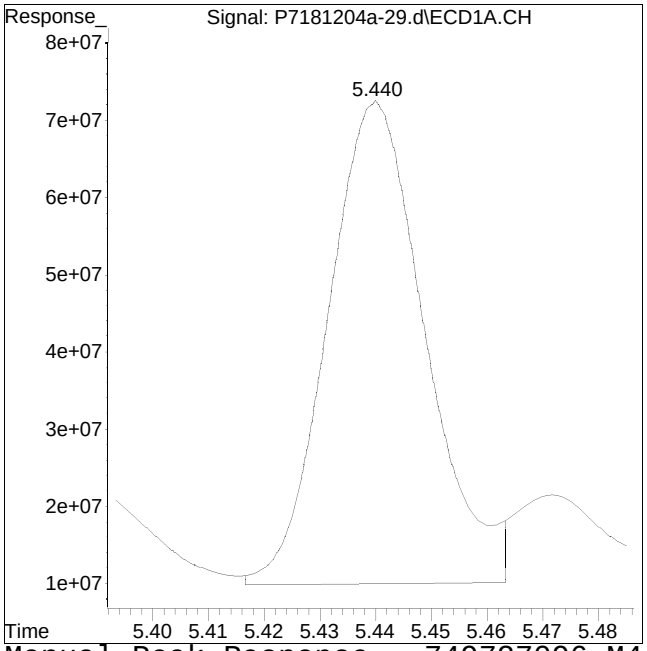
Manual Integration Report

Data Path : I:\Pest7\181204A\
Data File : P7181204a-29.d
Date Inj'd : 12/4/2018 9:20 am
Sample : l1849060-06,42e,,

QMethod : P7_pcb_04_10_18_ugL_ICAL
Operator : pest7:wr
Instrument : Pest 7
Quant Date : 12/6/2018 2:10 pm

Compound #11: 1260-4





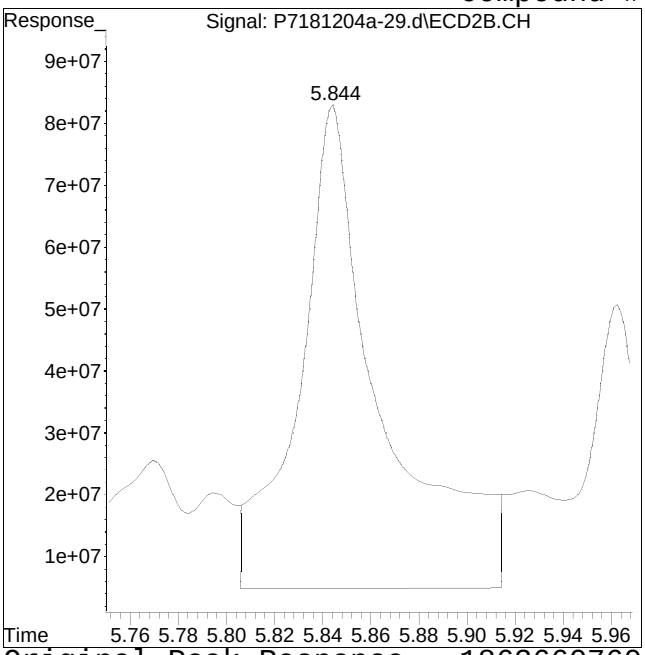
Original Peak Response = 876848814 Manual Peak Response = 749727096 M4
M4 = Poor automated baseline construction.

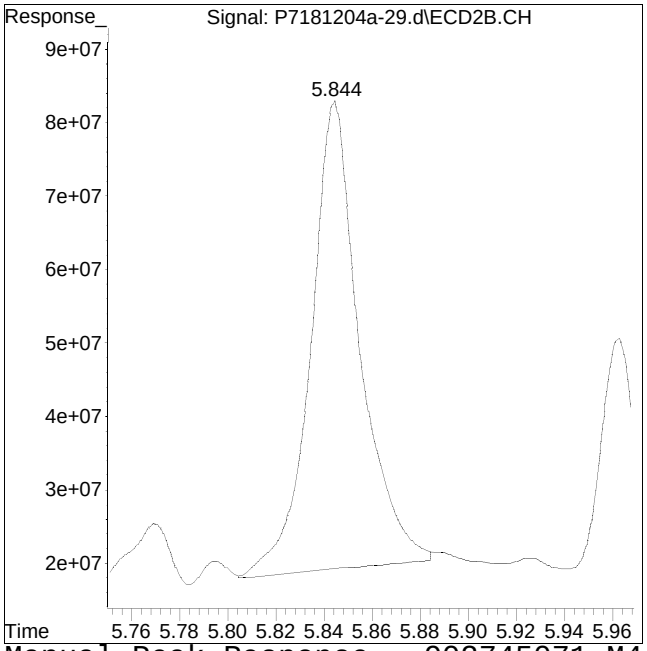
Manual Integration Report

Data Path : I:\Pest7\181204A\
Data File : P7181204a-29.d
Date Inj'd : 12/4/2018 9:20 am
Sample : l1849060-06,42e,,

QMethod : P7_pcb_04_10_18_ugL_ICAL
Operator : pest7:wr
Instrument : Pest 7
Quant Date : 12/6/2018 2:10 pm

Compound #61: 1260-4 #2





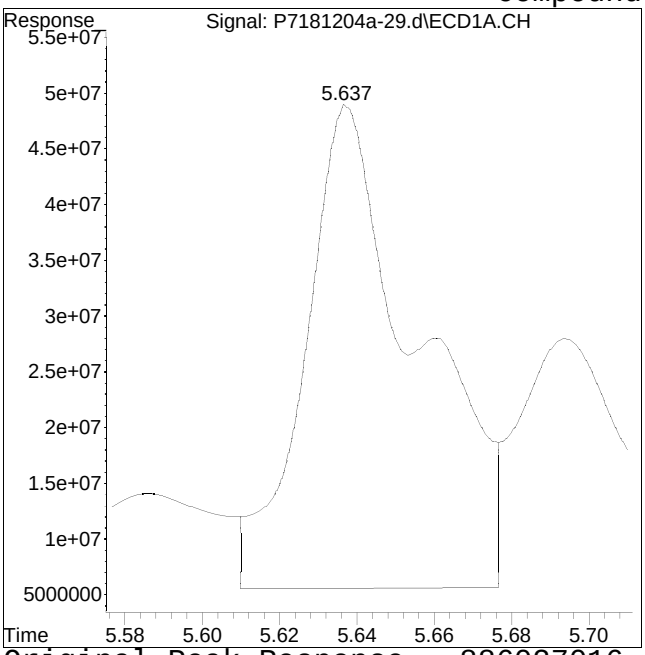
Original Peak Response = 1863660760 Manual Peak Response = 902745071 M4
M4 = Poor automated baseline construction.

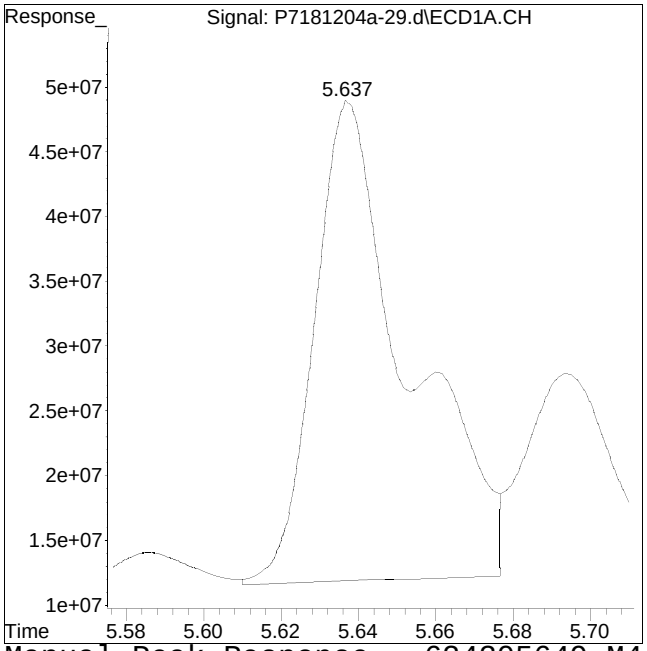
Manual Integration Report

Data Path : I:\Pest7\181204A\
Data File : P7181204a-29.d
Date Inj'd : 12/4/2018 9:20 am
Sample : l1849060-06,42e,,

QMethod : P7_pcb_04_10_18_ugL_ICAL
Operator : pest7:wr
Instrument : Pest 7
Quant Date : 12/6/2018 2:10 pm

Compound #12: 1260-5





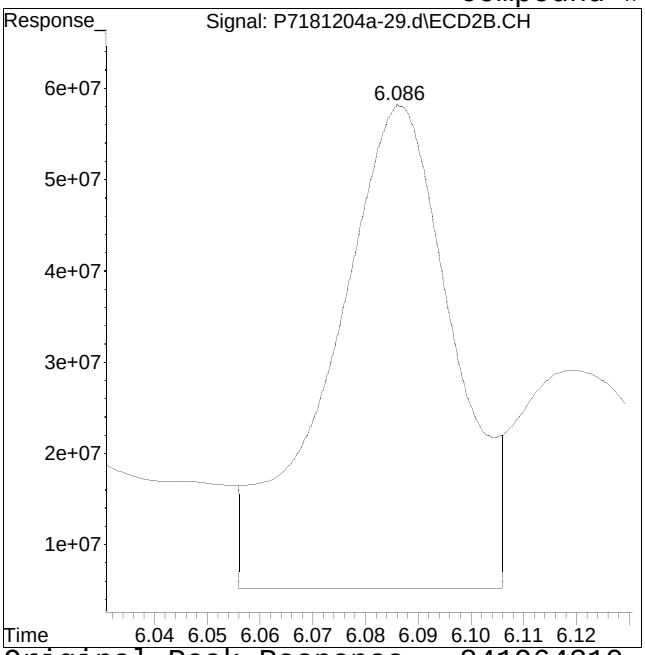
Original Peak Response = 886027016 Manual Peak Response = 624305649 M4
M4 = Poor automated baseline construction.

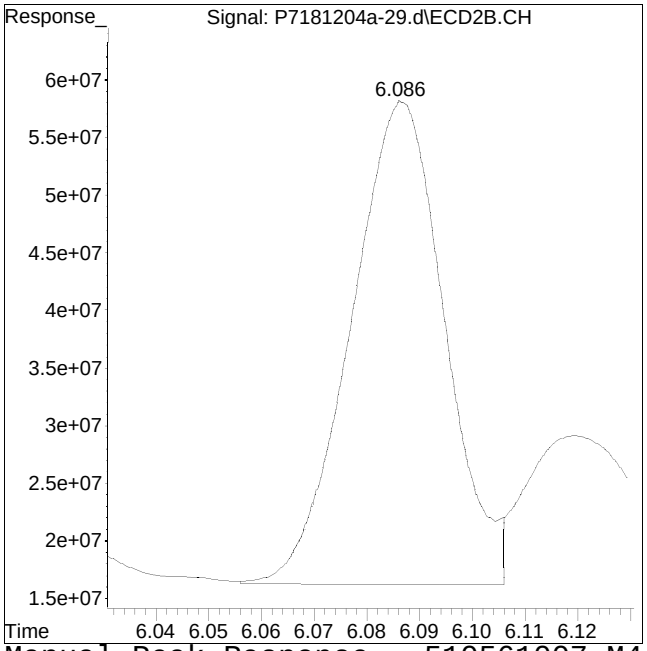
Manual Integration Report

Data Path : I:\Pest7\181204A\
Data File : P7181204a-29.d
Date Inj'd : 12/4/2018 9:20 am
Sample : l1849060-06,42e,,

QMethod : P7_pcb_04_10_18_ugL_ICAL
Operator : pest7:wr
Instrument : Pest 7
Quant Date : 12/6/2018 2:10 pm

Compound #62: 1260-5 #2





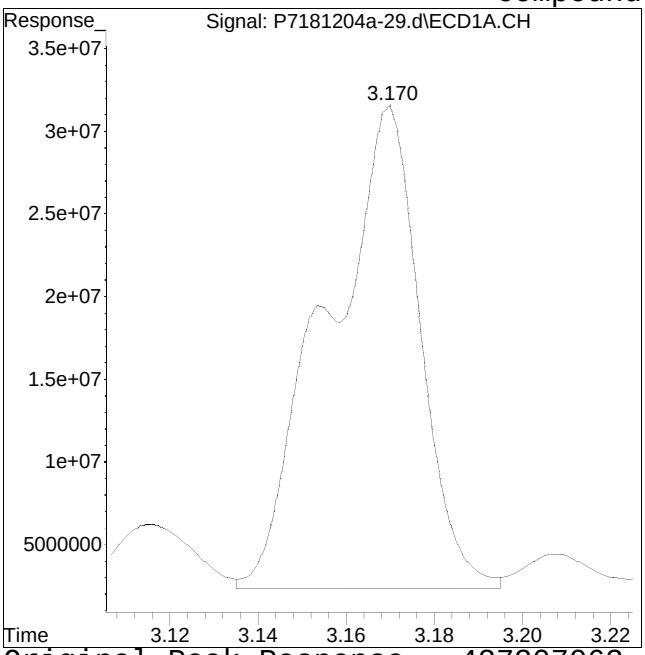
Original Peak Response = 841964310 Manual Peak Response = 510561007 M4
M4 = Poor automated baseline construction.

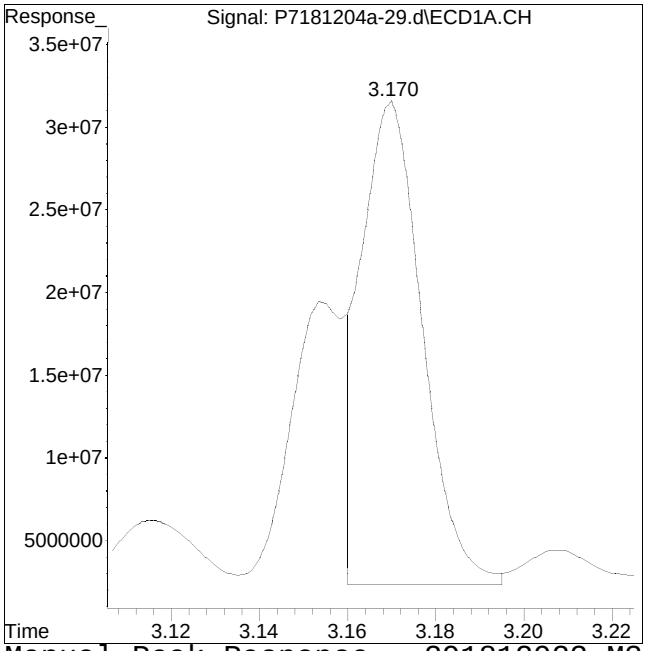
Manual Integration Report

Data Path : I:\Pest7\181204A\
Data File : P7181204a-29.d
Date Inj'd : 12/4/2018 9:20 am
Sample : l1849060-06,42e,,

QMethod : P7_pcb_04_10_18_ugL_ICAL
Operator : pest7:wr
Instrument : Pest 7
Quant Date : 12/6/2018 2:10 pm

Compound #24: 1242-2





Original Peak Response = 427307063 Manual Peak Response = 291812923 M3

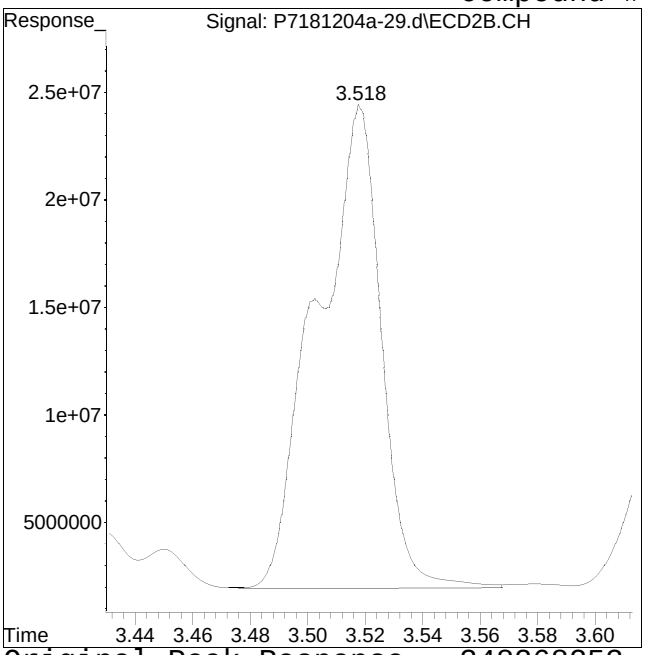
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

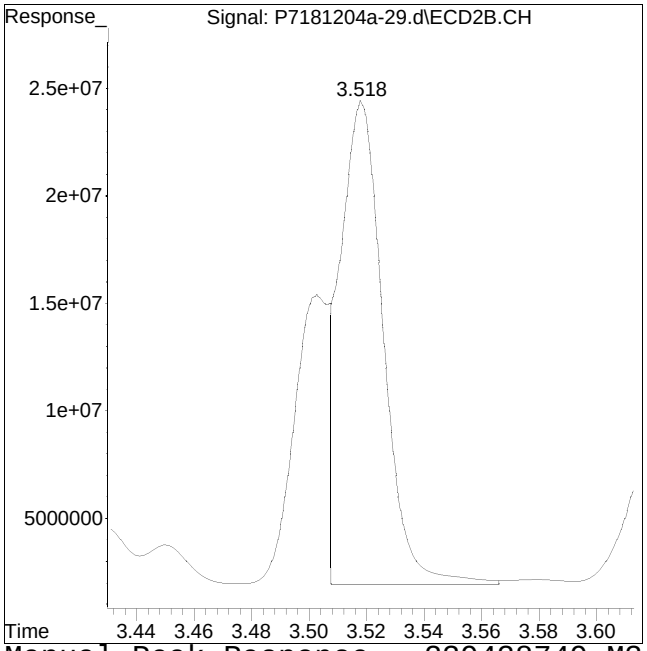
Manual Integration Report

Data Path : I:\Pest7\181204A\
Data File : P7181204a-29.d
Date Inj'd : 12/4/2018 9:20 am
Sample : l1849060-06,42e,,

QMethod : P7_pcb_04_10_18_ugL_ICAL
Operator : pest7:wr
Instrument : Pest 7
Quant Date : 12/6/2018 2:10 pm

Compound #74: 1242-2 #2





Original Peak Response = 348268253 Manual Peak Response = 239438749 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\181204A\
Data File : 16181204a-05.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 Dec 2018 4:14 am
Operator : pest16:ht
Sample : l1849060-01,42e,,
Misc : wg1185229,wg1184858,ical14982
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 07 00:22:22 2018
Quant Method : I:\Pest16\181204A\P16_pcb_08_09i_18_ugL_ICAL14982.m
Quant Title : pcb
QLast Update : Fri Nov 30 09:54:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest16\181204A\16181204a-01.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	2.217	2.216	905.6E6	1265.6E6	250.000	250.000
	Standard Area 1 : #1 = 825094645				Recovery =		109.76%
	Standard Area 1 : #2 = 1266052214				Recovery =		99.96%
14) i	2154_1br2nb	2.217	2.216	905.6E6	1265.6E6	250.000	250.000
22) i	4268_1br2nb	2.217	2.216	905.6E6	1265.6E6	250.000	250.000
33) i	1248_1br2nb	2.217	2.216	905.6E6	1265.6E6	250.000	250.000
39) i	3262_1br2nb	2.217	2.216	905.6E6	1265.6E6	250.000	250.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.719	2.835	1524.6E6	2075.5E6	335.300	334.653
	Spiked Amount 500.000	Range 30 - 150			Recovery =	67.06%	66.93%
3) s	Decachlorobi	6.797	7.217	1115.9E6	1663.8E6	338.400M4	496.454
	Spiked Amount 500.000	Range 30 - 150			Recovery =	67.68%	99.29%
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	5.647	6.019	872.9E6	978.1E6	4514.631	4405.532
12) l2	1260-4	5.864	6.190	1879.4E6	2634.1E6	4530.758	5789.388
13) l2	1260-5	6.063	6.437	1550.3E6	1898.6E6	5296.645	6367.722
	Sum 1260-1			4302.5E6	5510.8E6	14342.033	16562.642
	Average 1260-1					4780.678	5520.881

Data Path : I:\Pest16\181204A\
Data File : 16181204a-05.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 Dec 2018 4:14 am
Operator : pest16:ht
Sample : l1849060-01,42e,,
Misc : wg1185229,wg1184858,ical14982
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 07 00:22:22 2018
Quant Method : I:\Pest16\181204A\P16_pcb_08_09i_18_ugL_ICAL14982.m
Quant Title : pcb
QLast Update : Fri Nov 30 09:54:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest16\181204A\16181204a-01.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-2	4.531	4.845	1973.1E6	1694.3E6	7017.404	7182.602
19) l4	1254-3	4.841	5.195	2189.9E6	2863.5E6	8437.680	8371.091
20) l4	1254-4	5.050	5.364	1141.8E6	1347.2E6	6557.077	7142.364
21) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-2			5304.8E6	5905.0E6	22012.160	22696.057
Average	1254-2					7337.387	7565.352
23) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
24) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
28) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
29) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
34) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\Pest16\181204A\
Data File : 16181204a-05.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 Dec 2018 4:14 am
Operator : pest16:ht
Sample : l1849060-01,42e,,
Misc : wg1185229,wg1184858,ical14982
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 07 00:22:22 2018
Quant Method : I:\Pest16\181204A\P16_pcb_08_09i_18_ugL_ICAL14982.m
Quant Title : pcb
QLast Update : Fri Nov 30 09:54:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest16\181204A\16181204a-01.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
37) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
40) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
41) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
44) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
45) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
46) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

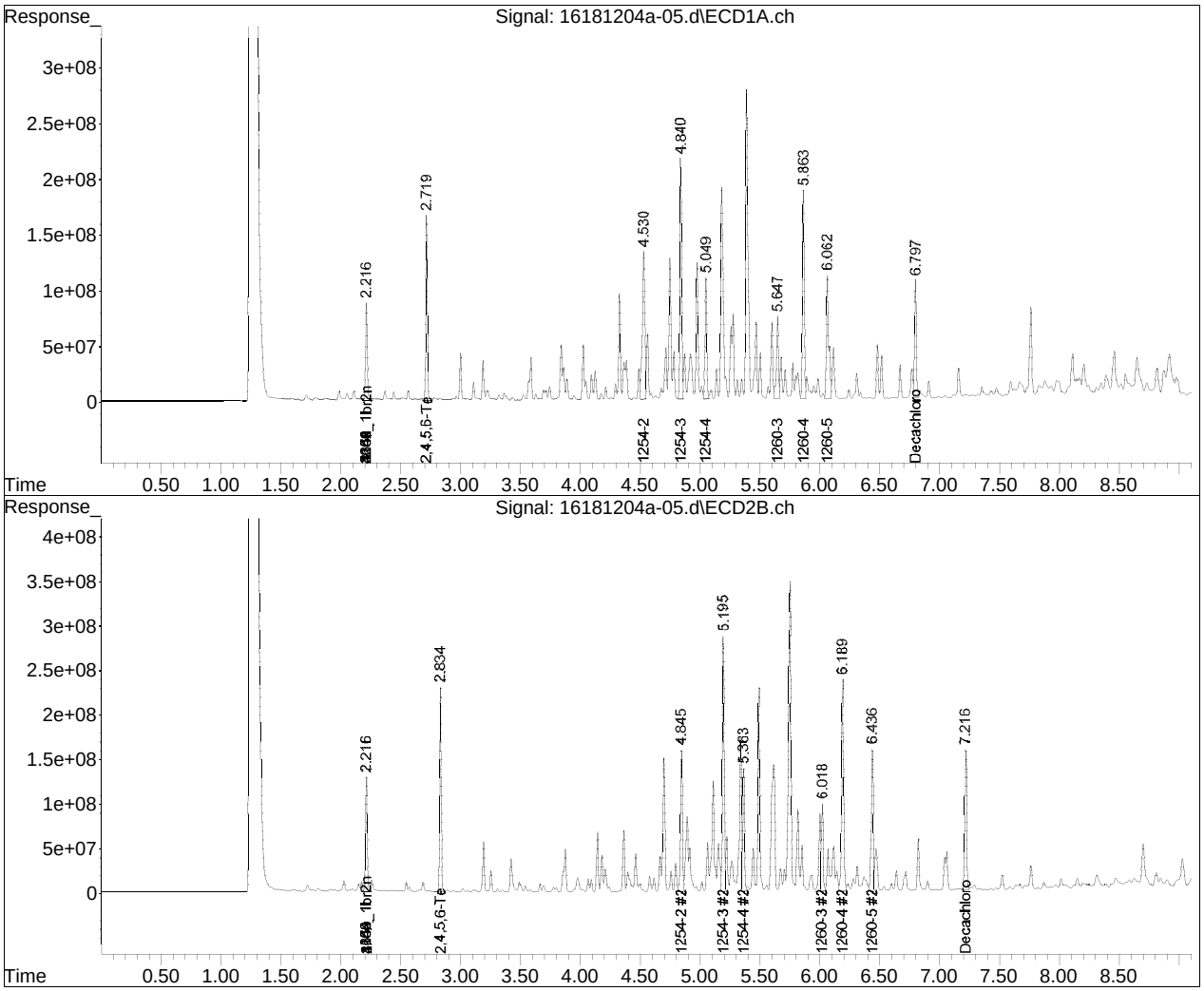
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda-01.d••d)

Data Path : I:\Pest16\181204A\
Data File : 16181204a-05.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 Dec 2018 4:14 am
Operator : pest16:ht
Sample : l1849060-01,42e,,
Misc : wg1185229,wg1184858,ical14982
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 07 00:22:22 2018
Quant Method : I:\Pest16\181204A\P16_pcb_08_09i_18_ugL_ICAL14982.m
Quant Title : pcb
QLast Update : Fri Nov 30 09:54:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

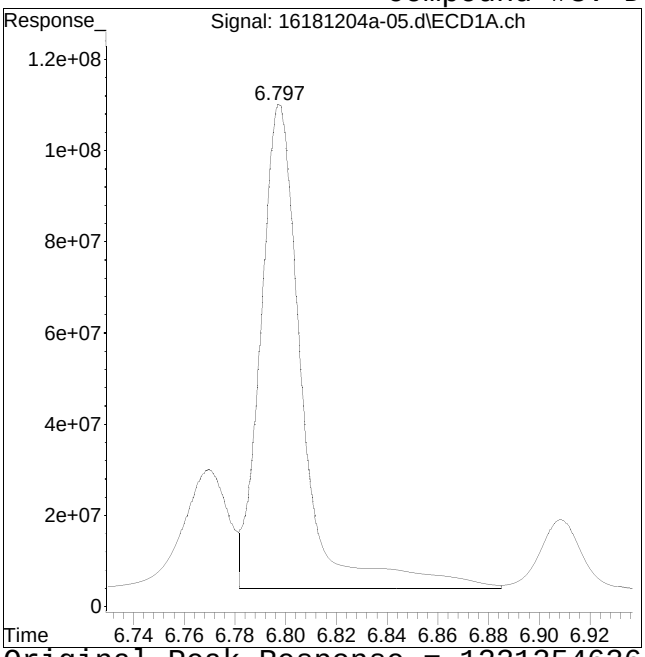


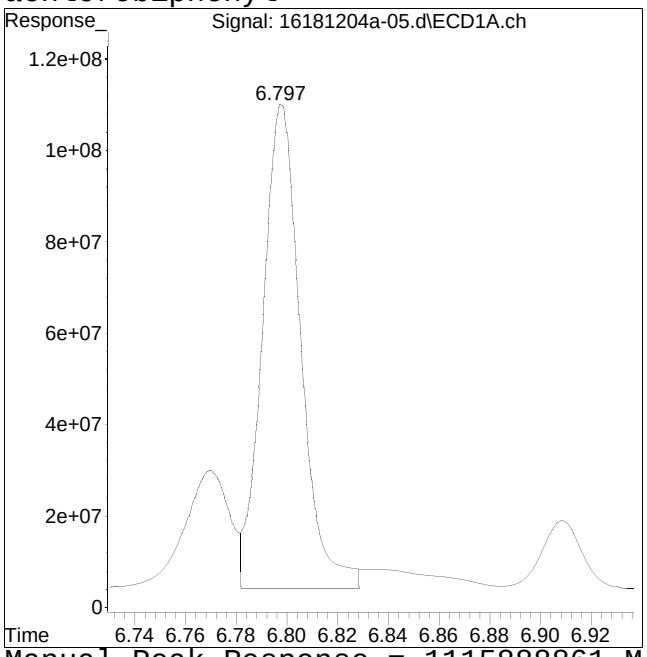
Manual Integration Report

Data Path : I:\Pest16\181204A\
Data File : 16181204a-05.d
Date Inj'd : 12/4/2018 4:14 am
Sample : l1849060-01,42e,,

QMethod : P16_pcb_08_09i_18_ugL_IC
Operator : pest16:ht
Instrument : PEST16
Quant Date : 12/7/2018 0:18 am

Compound #3: Decachlorobiphenyl





Original Peak Response = 1231354636 Manual Peak Response = 1115888861 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181210A\
Data File : 12181210A-05.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Dec 2018 4:28 pm
Operator : Pest12:aws
Sample : l1849060-05d,42e,20,
Misc : wg1187642,wg1184841,ical15152
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Dec 10 17:11:13 2018
Quant Method : I:\Pest12\181210A\P12_pcb_10-13-18_ICAL15152_ugL_.m
Quant Title : pcb
QLast Update : Thu Dec 06 09:53:12 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest12\181210A\12181210A-02.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	2.090	2.257	686.1E6	695.0E6	250.000	250.000
	Standard Area 1 : #1 = 557372126				Recovery =	123.10%	
	Standard Area 1 : #2 = 586036027				Recovery =	118.60%	
13) i	2154_1br2nb	2.090	2.257	686.1E6	695.0E6	250.000	250.000
22) i	4268_1br2nb	2.090	2.257	686.1E6	695.0E6	250.000	250.000
33) i	1248_1br2nb	2.090	2.257	686.1E6	695.0E6	250.000	250.000
39) i	3262_1br2nb	2.090	2.257	686.1E6	695.0E6	250.000	250.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-3	5.361	6.059	199.3E6	137.9E6	1695.357M3	1209.354
11) l2	1260-4	5.578	6.224	419.6E6	381.0E6	1586.676M4	1506.640
12) l2	1260-5	5.777	6.477	296.3E6	248.1E6	1695.615	1469.904
	Sum 1260-2			915.2E6	766.9E6	4977.648	4185.897
	Average 1260-2					1659.216	1395.299
14) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\Pest12\181210A\
Data File : 12181210A-05.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Dec 2018 4:28 pm
Operator : Pest12:aws
Sample : l1849060-05d,42e,20,
Misc : wg1187642,wg1184841,ical15152
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Dec 10 17:11:13 2018
Quant Method : I:\Pest12\181210A\P12_pcb_10-13-18_ICAL15152_ugL_.m
Quant Title : pcb
QLast Update : Thu Dec 06 09:53:12 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest12\181210A\12181210A-02.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
17) l4	1254-1	4.043	4.763	334.0E6	470.1E6	3417.792	4210.523
18) l4	1254-2	4.244	4.902	677.4E6	510.0E6	3918.333	3936.920
19) l4	1254-3	4.553	5.254	800.6E6	848.4E6	4829.932	4446.560
20) l4	1254-4	4.763	5.415	487.3E6	440.9E6	3775.423	3518.006
21) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			2299.3E6	2269.4E6	15941.480	16112.010
Average	1254-1					3985.370	4028.002
23) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
24) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
28) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
29) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
34) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\Pest12\181210A\
Data File : 12181210A-05.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Dec 2018 4:28 pm
Operator : Pest12:aws
Sample : l1849060-05d,42e,20,
Misc : wg1187642,wg1184841,ical15152
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Dec 10 17:11:13 2018
Quant Method : I:\Pest12\181210A\P12_pcb_10-13-18_ICAL15152_ugL_.m
Quant Title : pcb
QLast Update : Thu Dec 06 09:53:12 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest12\181210A\12181210A-02.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
37) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
40) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
41) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
45) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
46) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

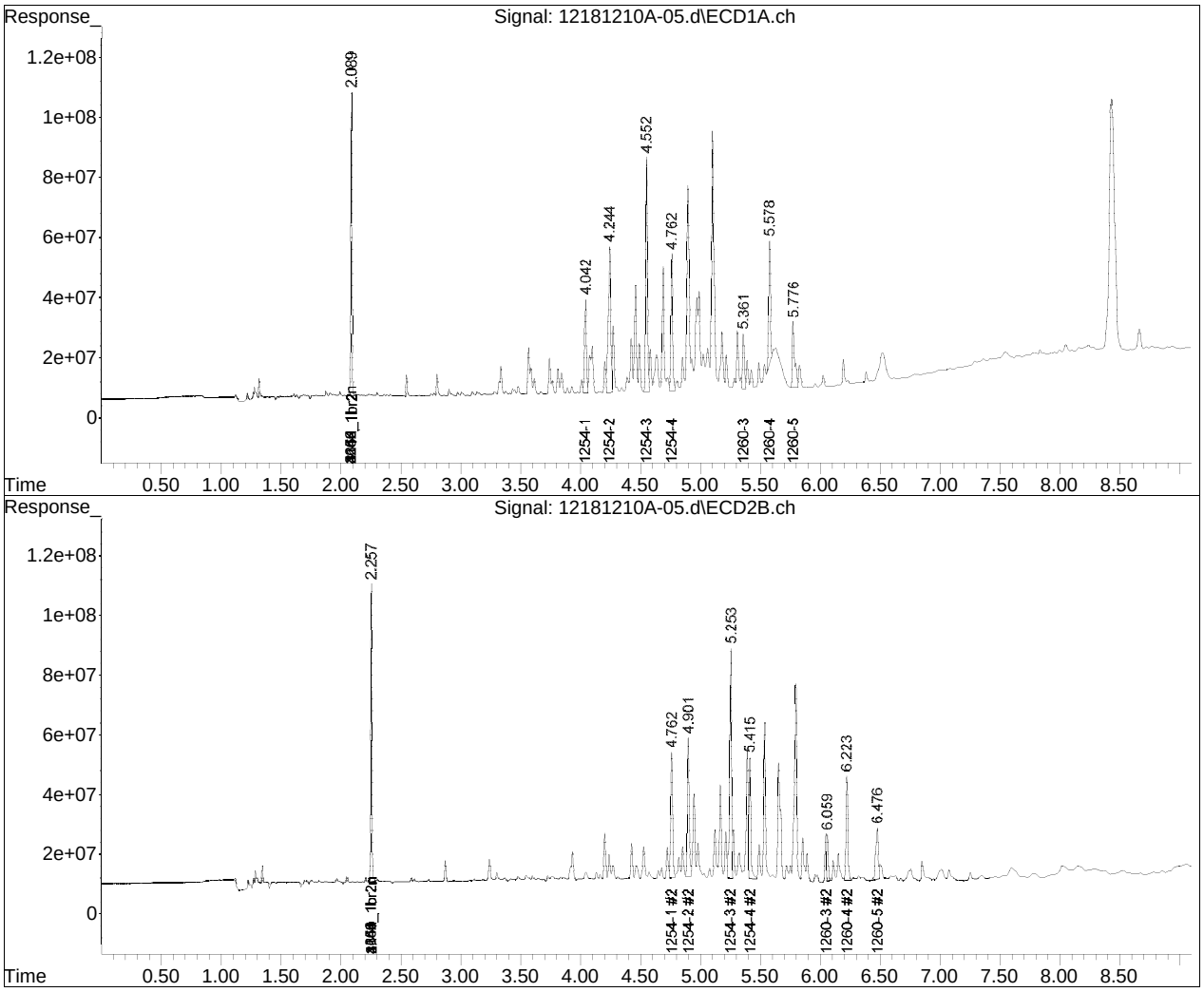
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedA-02.d••d)

Data Path : I:\Pest12\181210A\
Data File : 12181210A-05.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Dec 2018 4:28 pm
Operator : Pest12:aws
Sample : l1849060-05d,42e,20,
Misc : wg1187642,wg1184841,ical15152
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Dec 10 17:11:13 2018
Quant Method : I:\Pest12\181210A\P12_pcb_10-13-18_ICAL15152_ugL_.m
Quant Title : pcb
QLast Update : Thu Dec 06 09:53:12 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

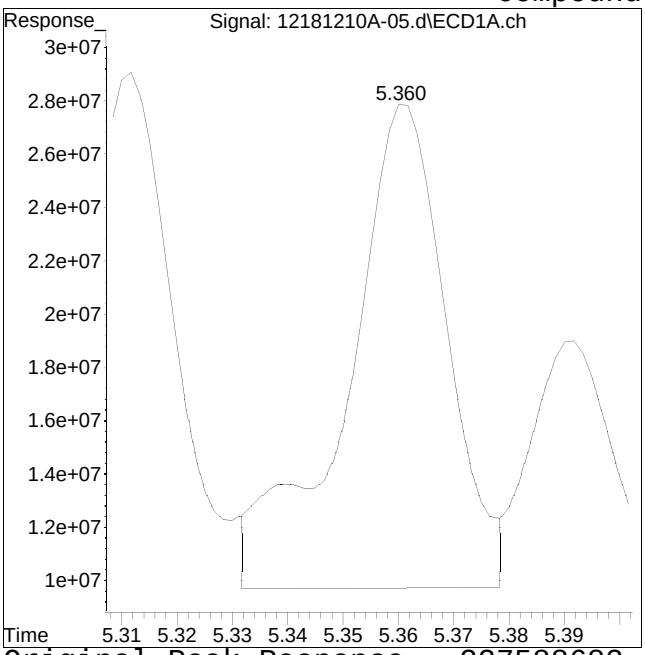


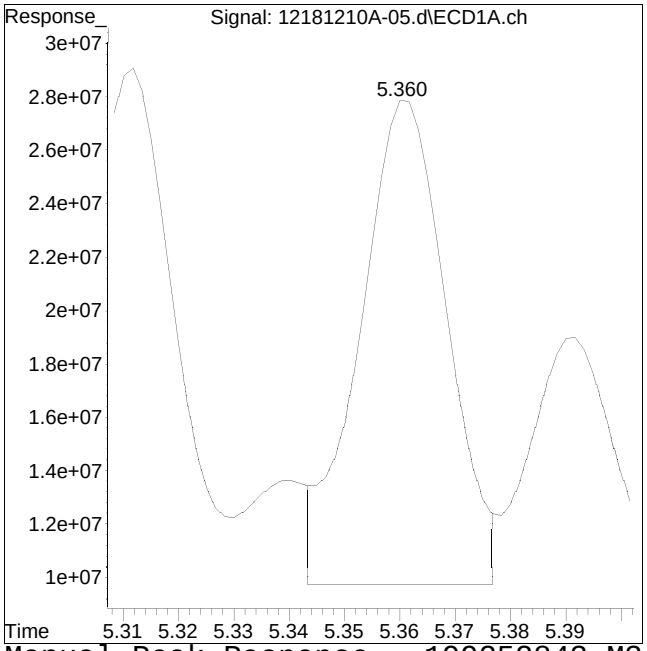
Manual Integration Report

Data Path : I:\Pest12\181210A\
Data File : 12181210A-05.d
Date Inj'd : 12/10/2018 4:28 pm
Sample : l1849060-05d,42e,20,

QMethod : P12_pcb_10-13-18_ICAL151
Operator : Pest12:aws
Instrument : Pest 12
Quant Date : 12/10/2018 5:09 pm

Compound #10: 1260-3





Original Peak Response = 227588682 Manual Peak Response = 199252843 M3

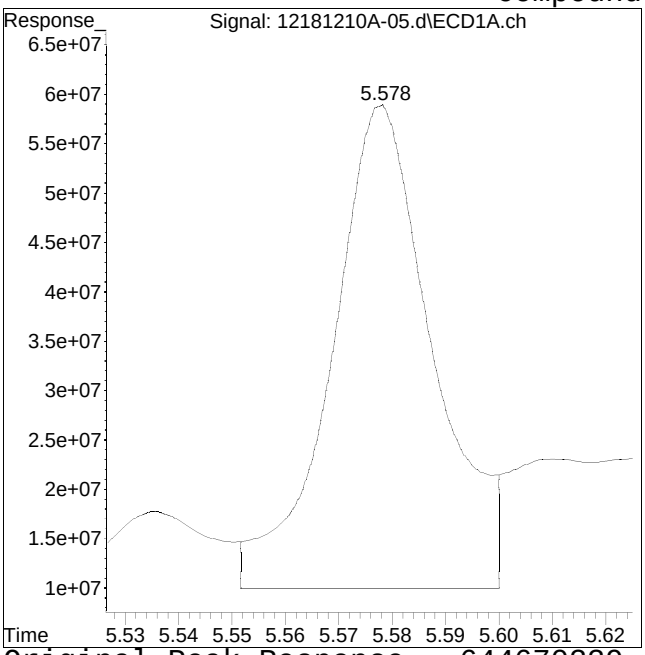
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

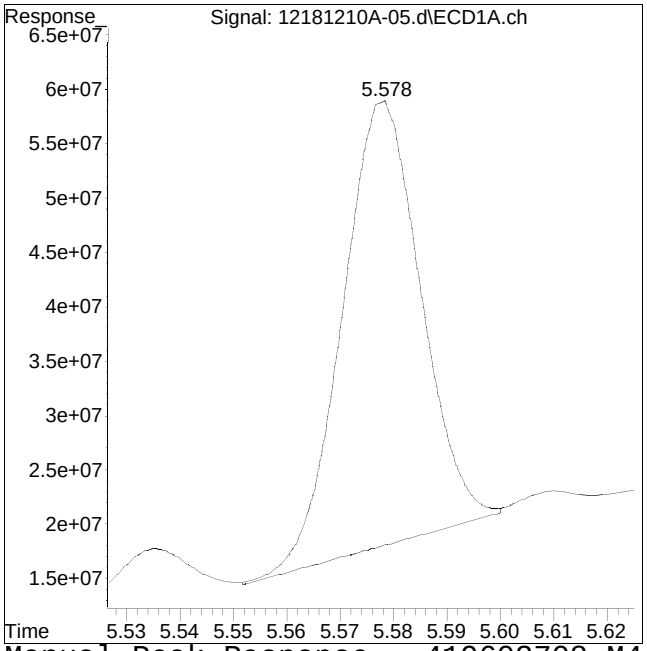
Data Path : I:\Pest12\181210A\
Data File : 12181210A-05.d
Date Inj'd : 12/10/2018 4:28 pm
Sample : l1849060-05d,42e,20,

QMethod : P12_pcb_10-13-18_ICAL151
Operator : Pest12:aws
Instrument : Pest 12
Quant Date : 12/10/2018 5:09 pm

Compound #11: 1260-4



Original Peak Response = 644670339



Manual Peak Response = 419603708 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181210A\
Data File : 12181210A-09.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Dec 2018 5:42 pm
Operator : Pest12:aws
Sample : l1849060-02d,42e,10,
Misc : wg1187642,wg1184841,ical15152
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Dec 10 18:18:00 2018
Quant Method : I:\Pest12\181210A\P12_pcb_10-13-18_ICAL15152_ugL_.m
Quant Title : pcb
QLast Update : Thu Dec 06 09:53:12 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest12\181210A\12181210A-02.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	2.117	2.281	669.5E6	701.5E6	250.000M4	250.000
	Standard Area 1 : #1 = 557372126				Recovery =	120.12%	
	Standard Area 1 : #2 = 586036027				Recovery =	119.70%	
13) i	2154_1br2nb	2.117	2.281	669.5E6	701.5E6	250.000M4	250.000
22) i	4268_1br2nb	2.117	2.281	669.5E6	701.5E6	250.000M4	250.000
33) i	1248_1br2nb	2.117	2.281	669.5E6	701.5E6	250.000M4	250.000
39) i	3262_1br2nb	2.117	2.281	669.5E6	701.5E6	250.000M4	250.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-3	5.385f	6.085f	237.7E6	224.0E6	2072.997M2	1946.658M2
11) l2	1260-4	5.602f	6.253f	498.2E6	497.2E6	1930.671M2	1948.025M2
12) l2	1260-5	5.803f	6.515f	399.7E6	346.4E6	2343.689M2	2033.483M2
	Sum 1260-2			1135.6E6	1067.6E6	6347.356	5928.166

Data Path : I:\Pest12\181210A\
Data File : 12181210A-09.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Dec 2018 5:42 pm
Operator : Pest12:aws
Sample : l1849060-02d,42e,10,
Misc : wg1187642,wg1184841,ical15152
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Dec 10 18:18:00 2018
Quant Method : I:\Pest12\181210A\P12_pcb_10-13-18_ICAL15152_ugL_.m
Quant Title : pcb
QLast Update : Thu Dec 06 09:53:12 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest12\181210A\12181210A-02.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1260-2					2115.785	1976.055
14) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
17) l4	1254-1	4.072f	4.778f	423.6E6	662.7E6	4441.853	5881.295M2
18) l4	1254-2	4.271f	4.916	933.7E6	617.0E6	5534.507M2	4718.530M2
19) l4	1254-3	4.577f	5.268	796.7E6	815.5E6	4926.035M2	4234.933M2
20) l4	1254-4	4.786f	5.429	513.4E6	451.2E6	4076.689M4	3567.017M4
21) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			2667.4E6	2546.5E6	18979.084	18401.775
Average	1254-1					4744.771	4600.444
23) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
24) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
28) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
29) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\Pest12\181210A\
Data File : 12181210A-09.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Dec 2018 5:42 pm
Operator : Pest12:aws
Sample : l1849060-02d,42e,10,
Misc : wg1187642,wg1184841,ical15152
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Dec 10 18:18:00 2018
Quant Method : I:\Pest12\181210A\P12_pcb_10-13-18_ICAL15152_ugL_.m
Quant Title : pcb
QLast Update : Thu Dec 06 09:53:12 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest12\181210A\12181210A-02.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
34) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
40) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
41) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
45) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
46) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181210A\
Data File : 12181210A-09.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Dec 2018 5:42 pm
Operator : Pest12:aws
Sample : l1849060-02d,42e,10,
Misc : wg1187642,wg1184841,ical15152
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Dec 10 18:18:00 2018
Quant Method : I:\Pest12\181210A\P12_pcb_10-13-18_ICAL15152_ugL_.m
Quant Title : pcb
QLast Update : Thu Dec 06 09:53:12 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest12\181210A\12181210A-02.d
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

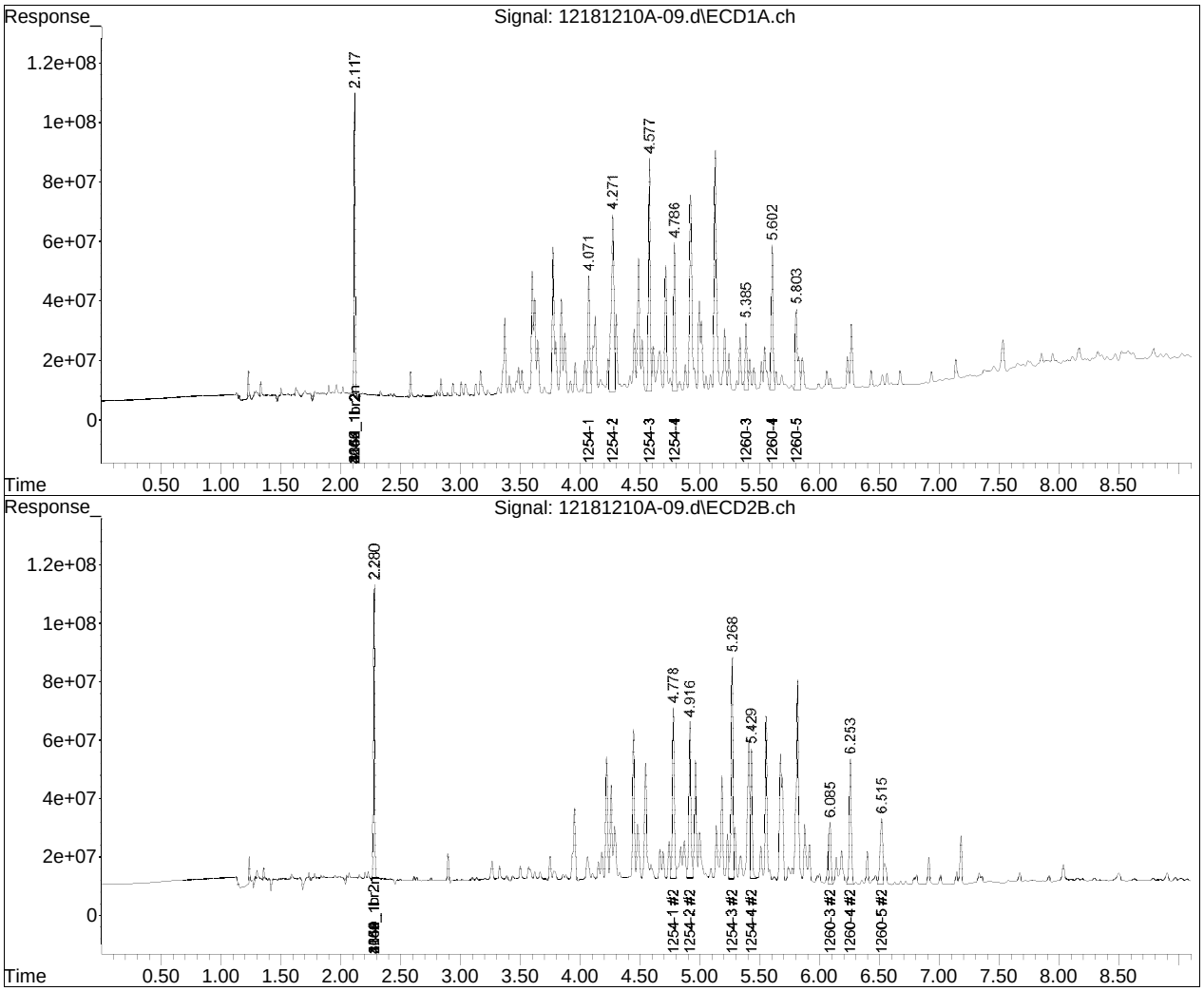
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedA-02.d••d)

Data Path : I:\Pest12\181210A\
Data File : 12181210A-09.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Dec 2018 5:42 pm
Operator : Pest12:aws
Sample : l1849060-02d,42e,10,
Misc : wg1187642,wg1184841,ical15152
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Dec 10 18:18:00 2018
Quant Method : I:\Pest12\181210A\P12_pcb_10-13-18_ICAL15152_ugL_.m
Quant Title : pcb
QLast Update : Thu Dec 06 09:53:12 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

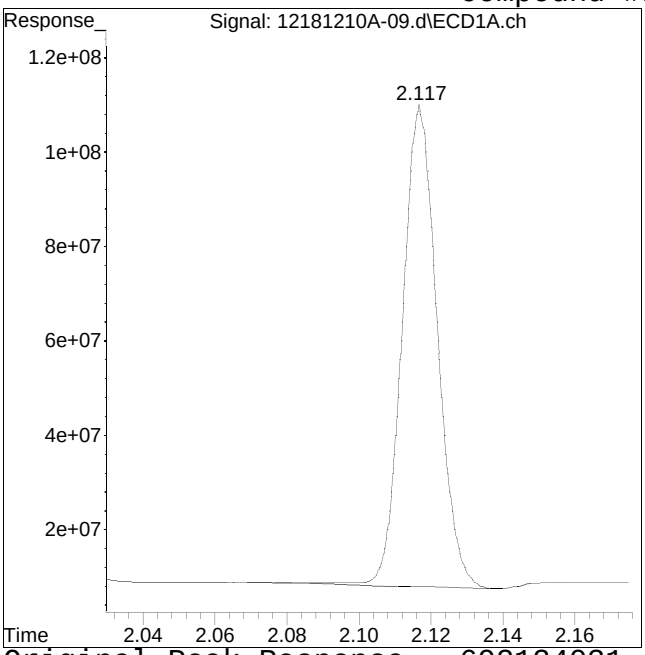


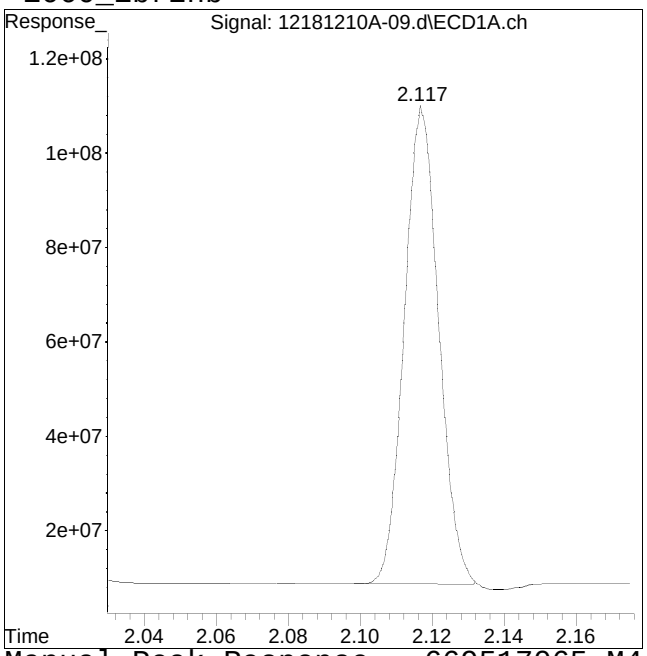
Manual Integration Report

Data Path : I:\Pest12\181210A\
Data File : 12181210A-09.d
Date Inj'd : 12/10/2018 5:42 pm
Sample : l1849060-02d,42e,10,

QMethod : P12_pcb_10-13-18_ICAL151
Operator : Pest12:aws
Instrument : Pest 12
Quant Date : 12/10/2018 6:03 pm

Compound #1: 1660_1br2nb





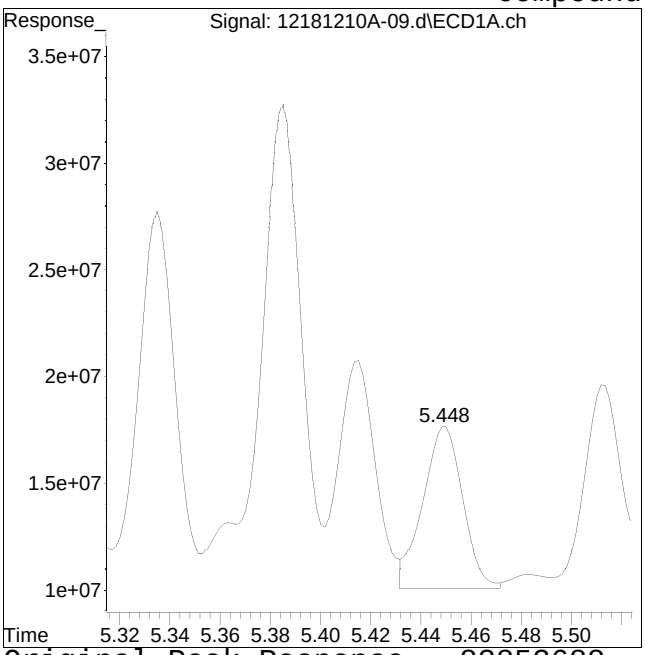
Original Peak Response = 692124031 Manual Peak Response = 669517065 M4
M4 = Poor automated baseline construction.

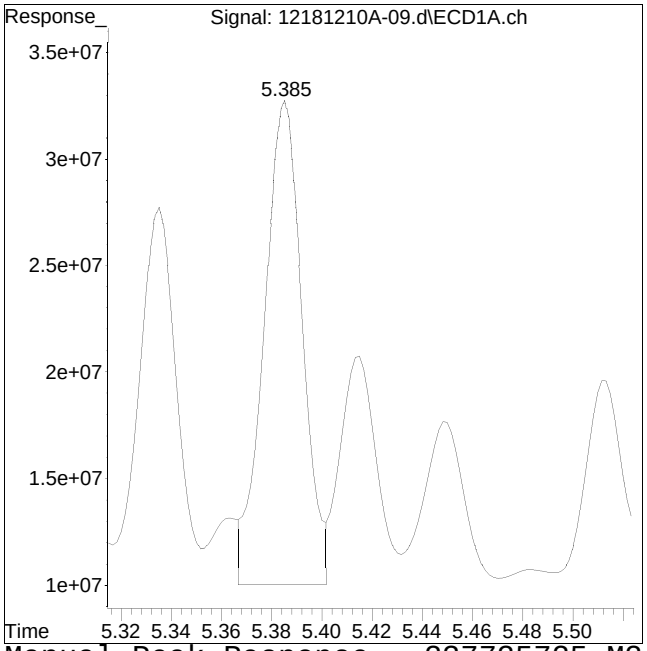
Manual Integration Report

Data Path : I:\Pest12\181210A\
Data File : 12181210A-09.d
Date Inj'd : 12/10/2018 5:42 pm
Sample : l1849060-02d,42e,10,

QMethod : P12_pcb_10-13-18_ICAL151
Operator : Pest12:aws
Instrument : Pest 12
Quant Date : 12/10/2018 6:03 pm

Compound #10: 1260-3





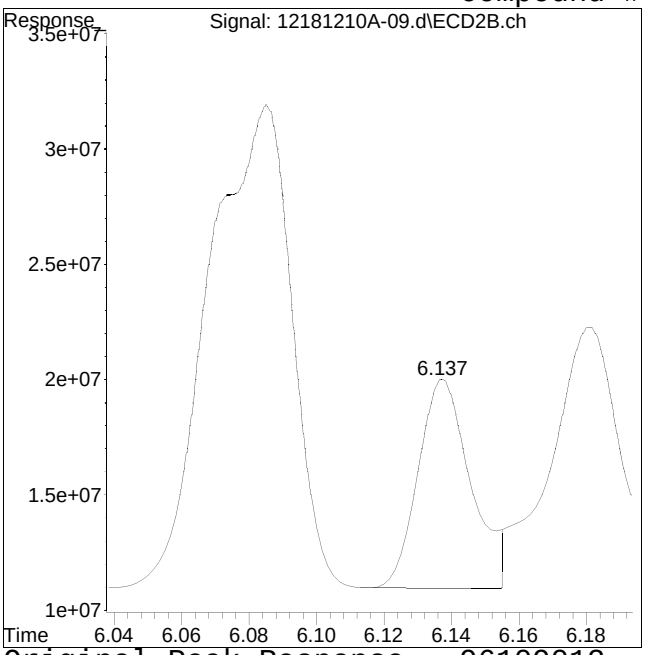
Original Peak Response = 83853688 Manual Peak Response = 237735725 M2
M2 = Peak not found by automatic integration algorithm.

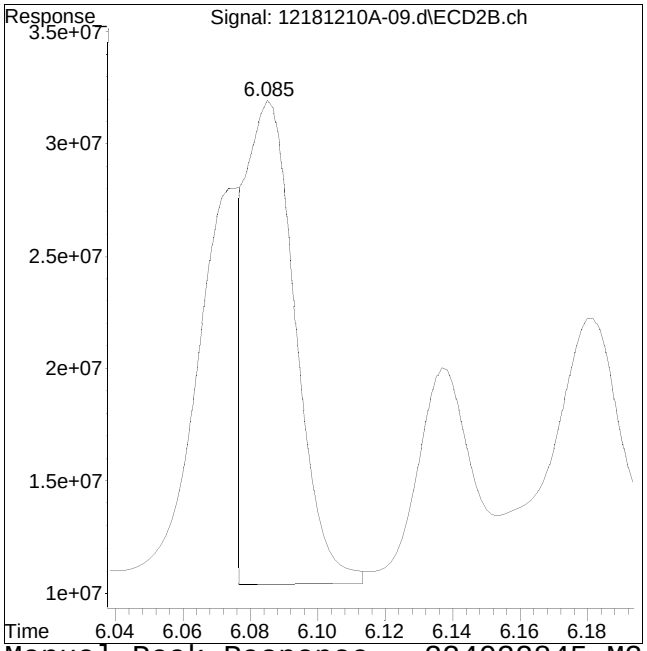
Manual Integration Report

Data Path : I:\Pest12\181210A\
Data File : 12181210A-09.d
Date Inj'd : 12/10/2018 5:42 pm
Sample : l1849060-02d,42e,10,

QMethod : P12_pcb_10-13-18_ICAL151
Operator : Pest12:aws
Instrument : Pest 12
Quant Date : 12/10/2018 6:03 pm

Compound #60: 1260-3 #2





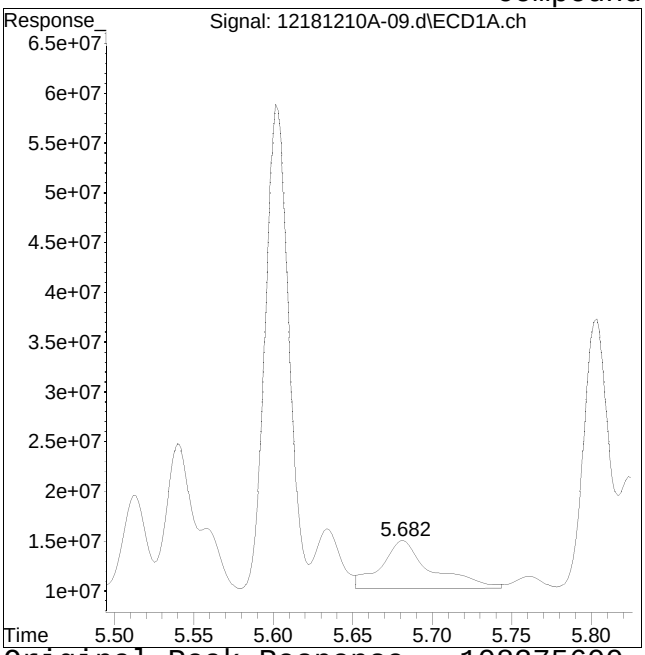
Original Peak Response = 96109012 Manual Peak Response = 224032845 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

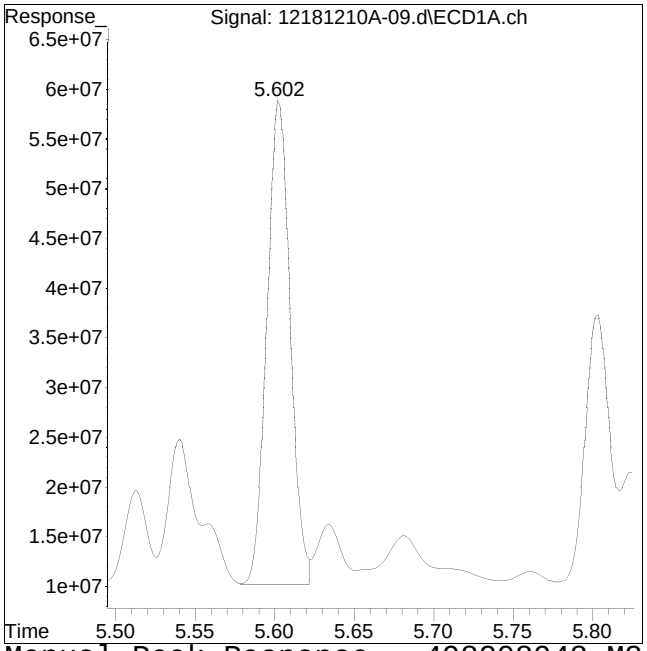
Data Path : I:\Pest12\181210A\
Data File : 12181210A-09.d
Date Inj'd : 12/10/2018 5:42 pm
Sample : l1849060-02d,42e,10,

QMethod : P12_pcb_10-13-18_ICAL151
Operator : Pest12:aws
Instrument : Pest 12
Quant Date : 12/10/2018 6:03 pm

Compound #11: 1260-4



Original Peak Response = 108375600



Manual Peak Response = 498208948 M2

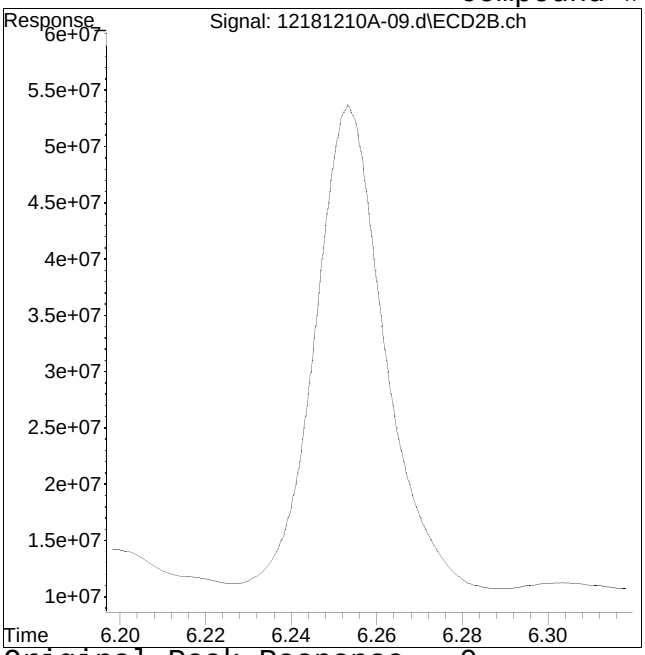
M2 = Peak not found by automatic integration algorithm.

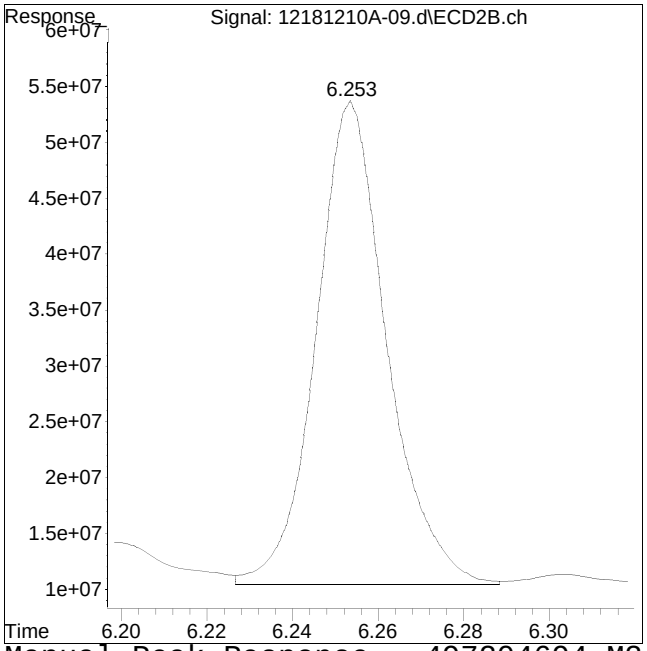
Manual Integration Report

Data Path : I:\Pest12\181210A\
Data File : 12181210A-09.d
Date Inj'd : 12/10/2018 5:42 pm
Sample : l1849060-02d,42e,10,

QMethod : P12_pcb_10-13-18_ICAL151
Operator : Pest12:aws
Instrument : Pest 12
Quant Date : 12/10/2018 6:03 pm

Compound #61: 1260-4 #2





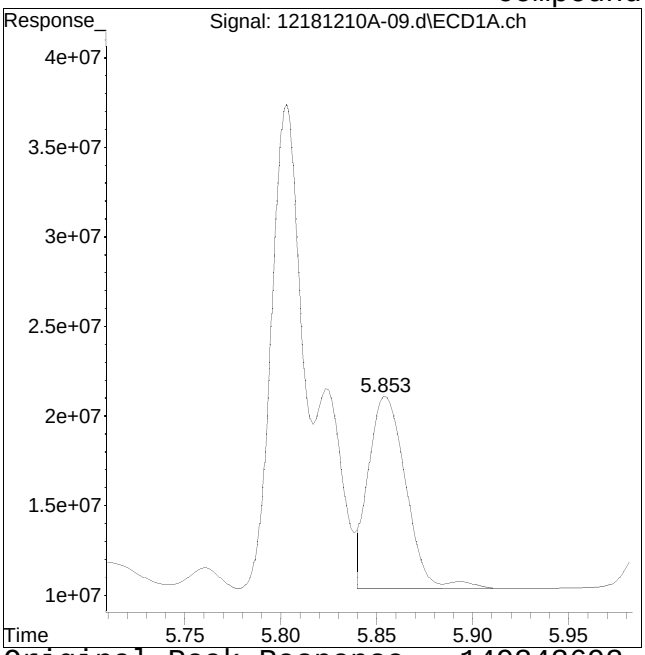
Original Peak Response = 0 Manual Peak Response = 497204694 M2
M2 = Peak not found by automatic integration algorithm.

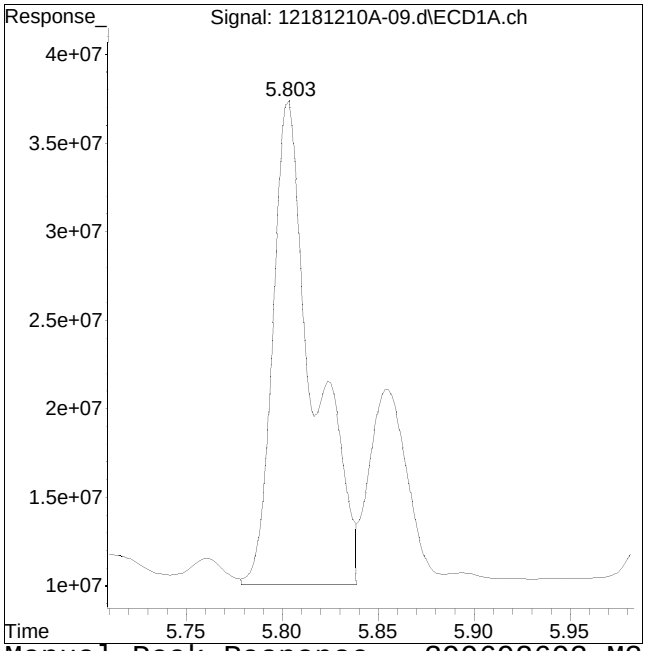
Manual Integration Report

Data Path : I:\Pest12\181210A\
Data File : 12181210A-09.d
Date Inj'd : 12/10/2018 5:42 pm
Sample : l1849060-02d,42e,10,

QMethod : P12_pcb_10-13-18_ICAL151
Operator : Pest12:aws
Instrument : Pest 12
Quant Date : 12/10/2018 6:03 pm

Compound #12: 1260-5





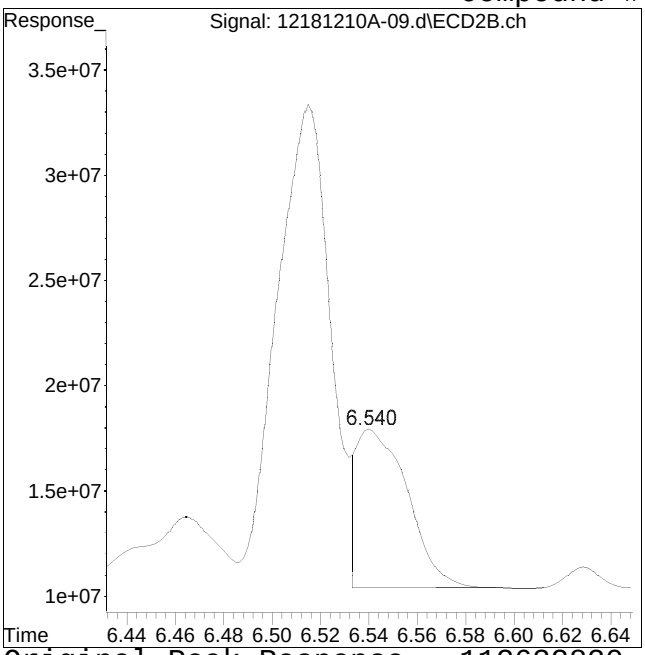
Original Peak Response = 149343693 Manual Peak Response = 399692693 M2
M2 = Peak not found by automatic integration algorithm.

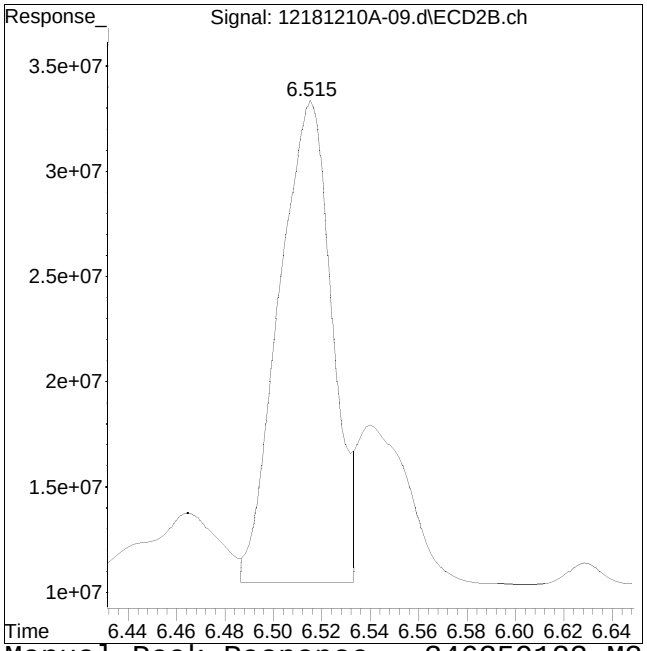
Manual Integration Report

Data Path : I:\Pest12\181210A\
Data File : 12181210A-09.d
Date Inj'd : 12/10/2018 5:42 pm
Sample : l1849060-02d,42e,10,

QMethod : P12_pcb_10-13-18_ICAL151
Operator : Pest12:aws
Instrument : Pest 12
Quant Date : 12/10/2018 6:03 pm

Compound #62: 1260-5 #2





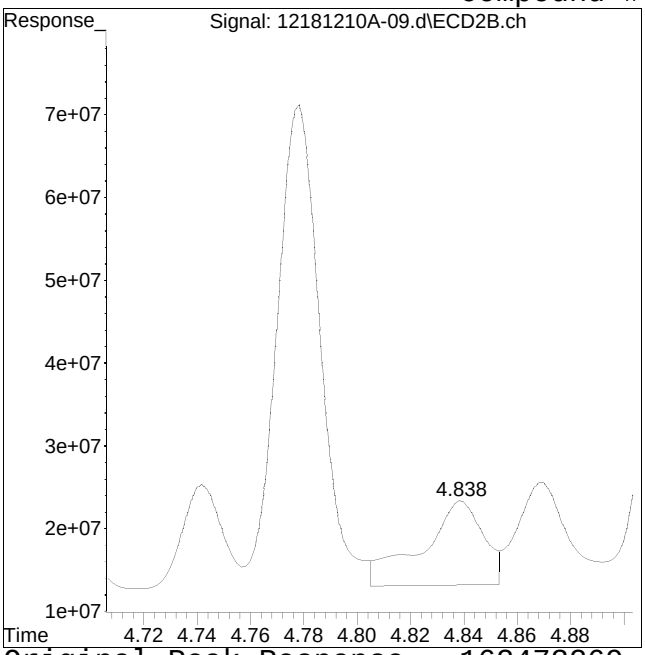
Original Peak Response = 112632820 Manual Peak Response = 346359123 M2
M2 = Peak not found by automatic integration algorithm.

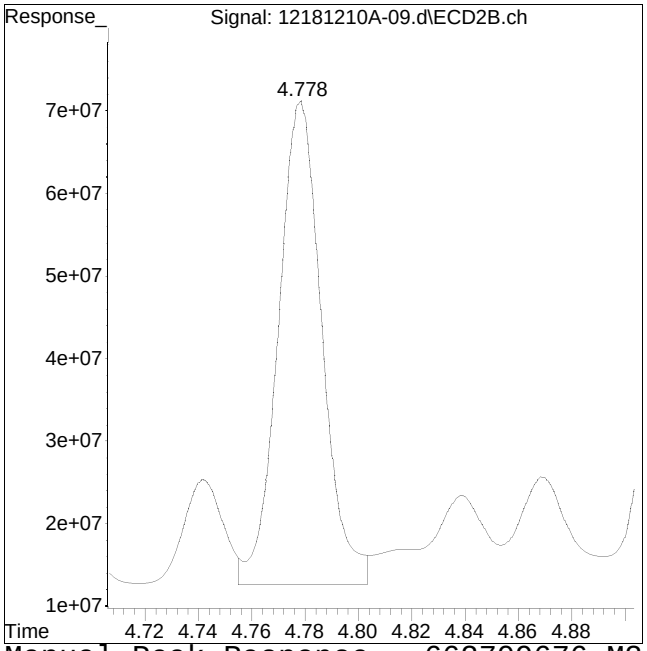
Manual Integration Report

Data Path : I:\Pest12\181210A\
Data File : 12181210A-09.d
Date Inj'd : 12/10/2018 5:42 pm
Sample : l1849060-02d,42e,10,

QMethod : P12_pcb_10-13-18_ICAL151
Operator : Pest12:aws
Instrument : Pest 12
Quant Date : 12/10/2018 6:03 pm

Compound #67: 1254-1 #2





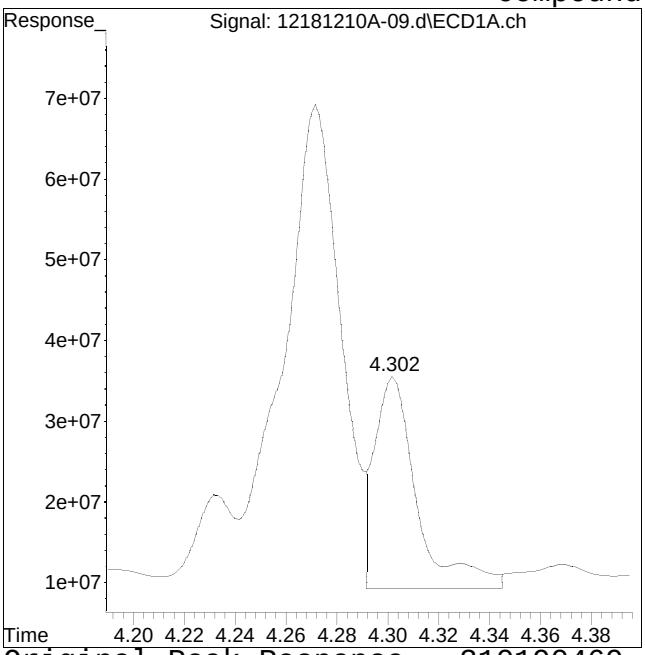
Original Peak Response = 162473269 Manual Peak Response = 662709676 M2
M2 = Peak not found by automatic integration algorithm.

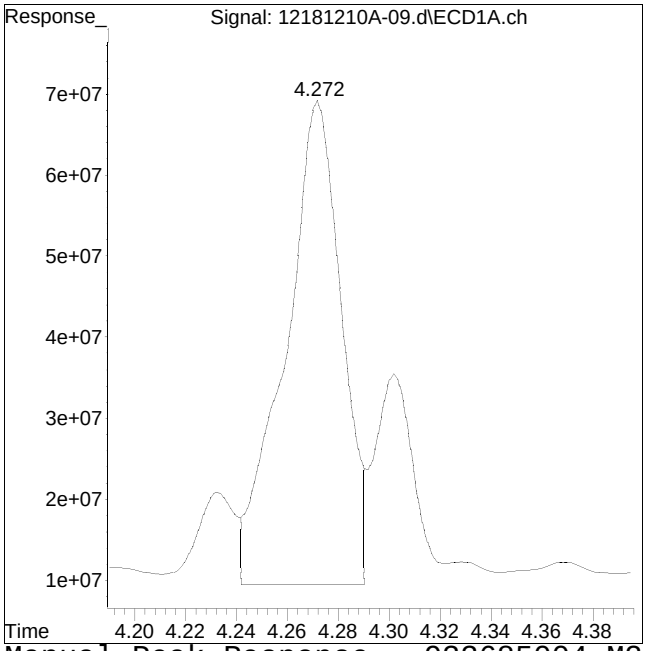
Manual Integration Report

Data Path : I:\Pest12\181210A\
Data File : 12181210A-09.d
Date Inj'd : 12/10/2018 5:42 pm
Sample : l1849060-02d,42e,10,

QMethod : P12_pcb_10-13-18_ICAL151
Operator : Pest12:aws
Instrument : Pest 12
Quant Date : 12/10/2018 6:03 pm

Compound #18: 1254-2





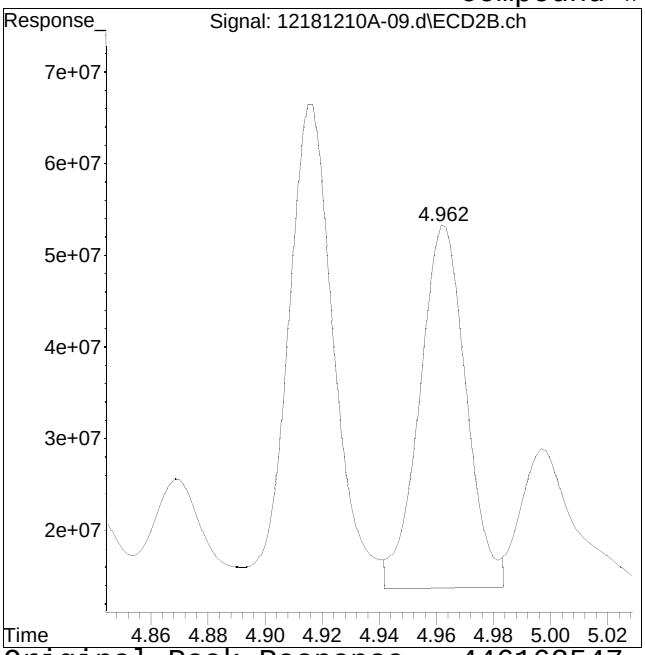
Original Peak Response = 310190469 Manual Peak Response = 933685004 M2
M2 = Peak not found by automatic integration algorithm.

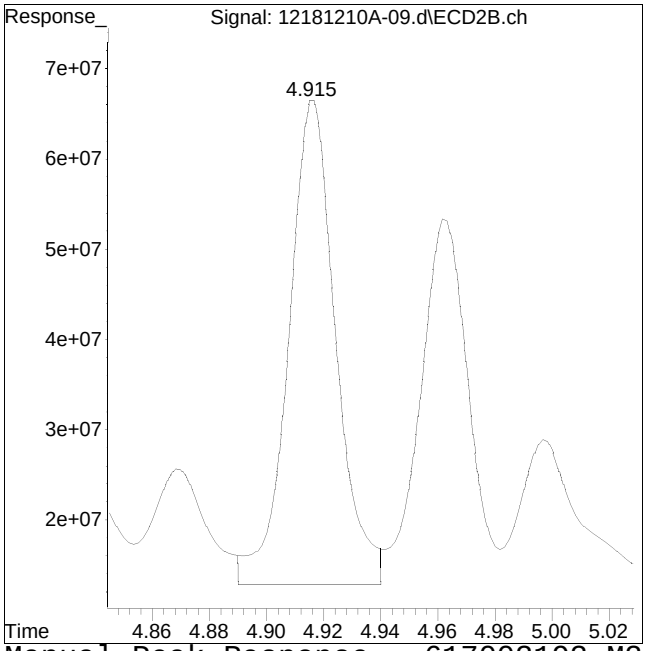
Manual Integration Report

Data Path : I:\Pest12\181210A\
Data File : 12181210A-09.d
Date Inj'd : 12/10/2018 5:42 pm
Sample : l1849060-02d,42e,10,

QMethod : P12_pcb_10-13-18_ICAL151
Operator : Pest12:aws
Instrument : Pest 12
Quant Date : 12/10/2018 6:03 pm

Compound #68: 1254-2 #2





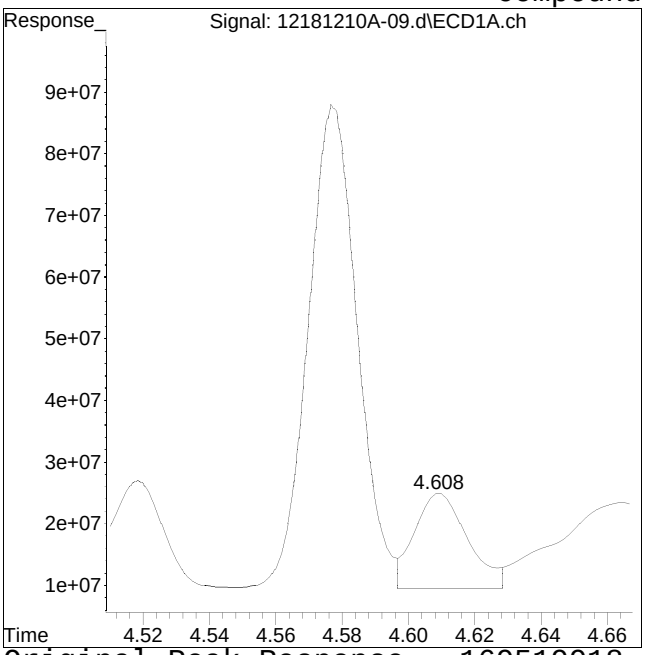
Original Peak Response = 446162547 Manual Peak Response = 617003193 M2
M2 = Peak not found by automatic integration algorithm.

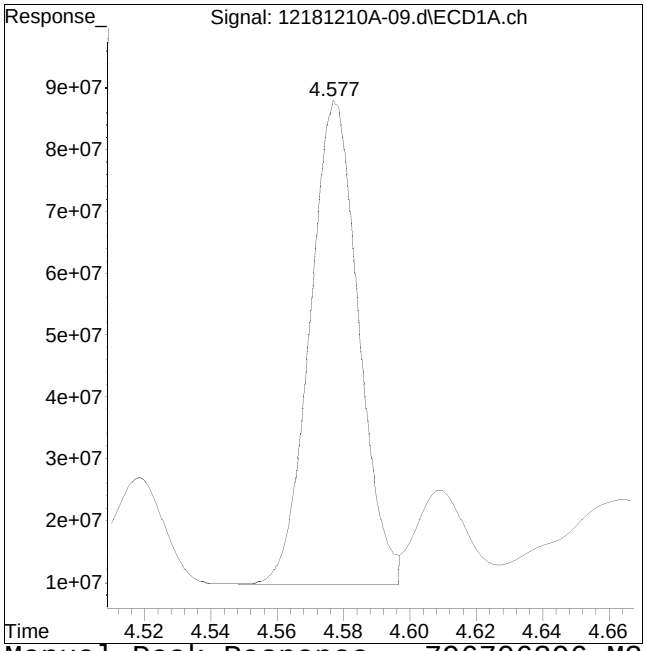
Manual Integration Report

Data Path : I:\Pest12\181210A\
Data File : 12181210A-09.d
Date Inj'd : 12/10/2018 5:42 pm
Sample : l1849060-02d,42e,10,

QMethod : P12_pcb_10-13-18_ICAL151
Operator : Pest12:aws
Instrument : Pest 12
Quant Date : 12/10/2018 6:03 pm

Compound #19: 1254-3





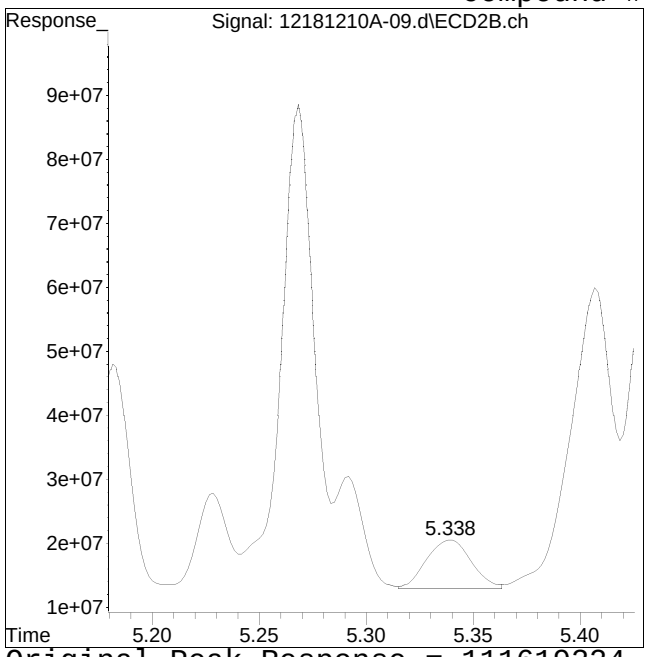
Original Peak Response = 169519918 Manual Peak Response = 796706396 M2
M2 = Peak not found by automatic integration algorithm.

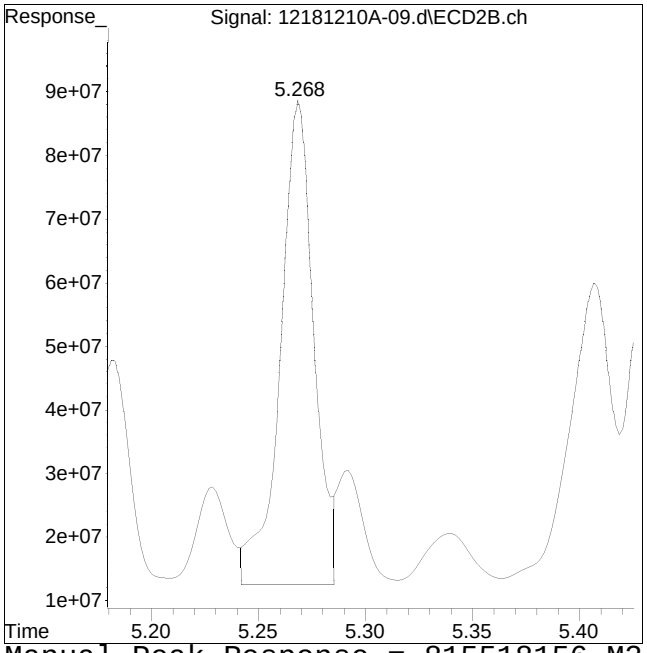
Manual Integration Report

Data Path : I:\Pest12\181210A\
Data File : 12181210A-09.d
Date Inj'd : 12/10/2018 5:42 pm
Sample : l1849060-02d,42e,10,

QMethod : P12_pcb_10-13-18_ICAL151
Operator : Pest12:aws
Instrument : Pest 12
Quant Date : 12/10/2018 6:03 pm

Compound #69: 1254-3 #2





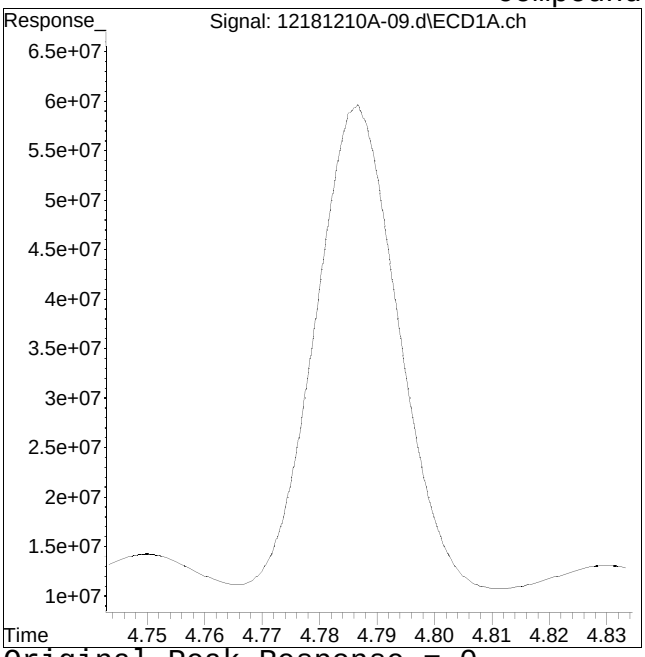
Original Peak Response = 111619224 Manual Peak Response = 815518156 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

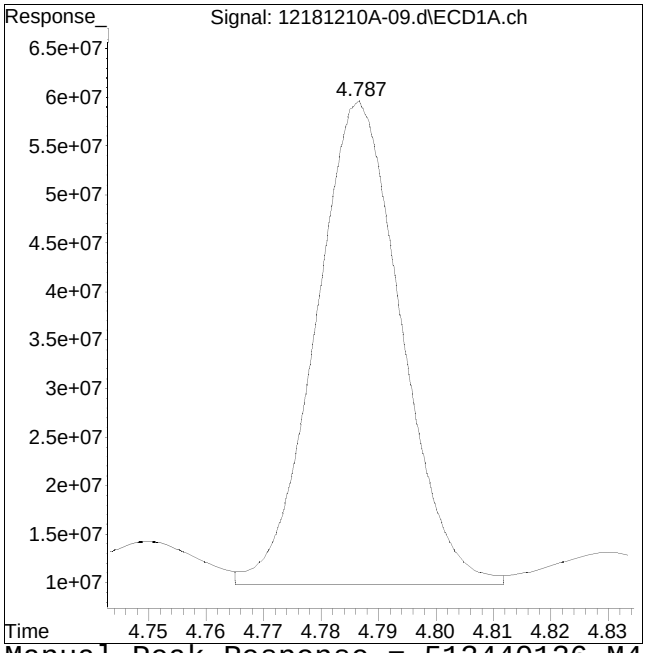
Data Path : I:\Pest12\181210A\
Data File : 12181210A-09.d
Date Inj'd : 12/10/2018 5:42 pm
Sample : l1849060-02d,42e,10,

QMethod : P12_pcb_10-13-18_ICAL151
Operator : Pest12:aws
Instrument : Pest 12
Quant Date : 12/10/2018 6:03 pm

Compound #20: 1254-4



Original Peak Response = 0



Manual Peak Response = 513440136 M4

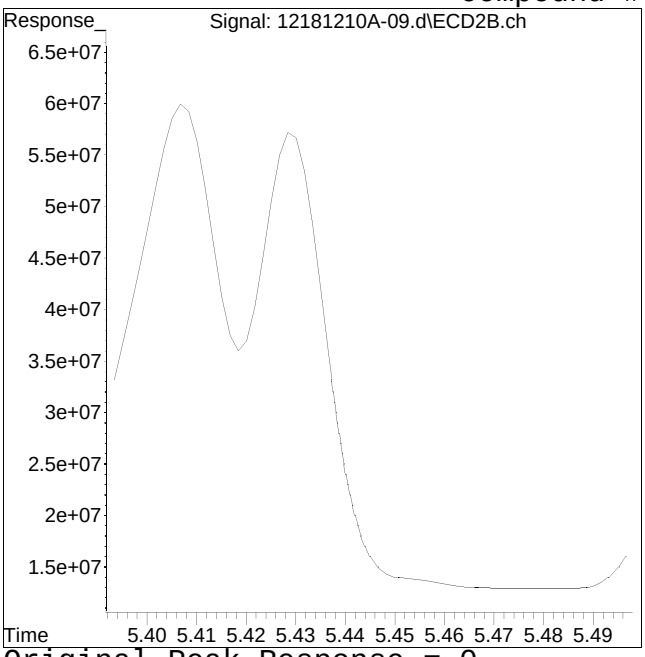
M4 = Poor automated baseline construction.

Manual Integration Report

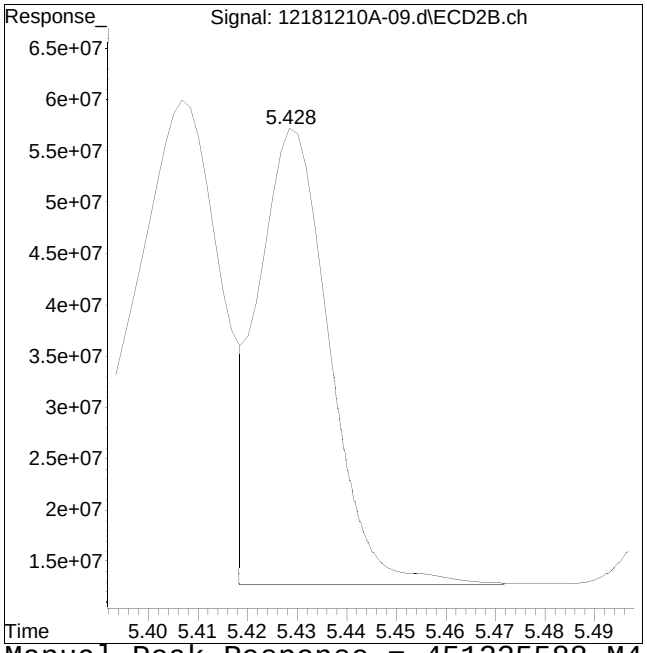
Data Path : I:\Pest12\181210A\
Data File : 12181210A-09.d
Date Inj'd : 12/10/2018 5:42 pm
Sample : l1849060-02d,42e,10,

QMethod : P12_pcb_10-13-18_ICAL151
Operator : Pest12:aws
Instrument : Pest 12
Quant Date : 12/10/2018 6:03 pm

Compound #70: 1254-4 #2



Original Peak Response = 0



Manual Peak Response = 451225588 M4

M4 = Poor automated baseline construction.

Aroclor Standards Data

Initial Calibration

Initial Calibration Summary
Form 6

Client	**: CHA Companies**	**Lab Number**	**: L1849060**
Project Name	**: 700 SMITH BLVD**	**Project Number**	**: 29852.1202.44000**
Instrument ID	**: PEST7**	**Ical Ref**	**: ICAL14857**
Calibration dates	**: 04/10/18 16:17 04/10/18 22:29**		

Calibration Files
1 =P7180410i-27.d 2 =P7180410i-28.d 3 =P7180410i-29.d 4 =P7180410i-30.d 5 =P7180410i-31.d
6 =P7180410i-32.d

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	1660_1br2nb	----------ISTD----------							
2)	s	2,4,5,6-Tetra	1.304	1.306	1.251	1.208	1.145	0.995	1.202	9.84
3)	s	Decachlorobip	1.008	0.893	0.831	0.791	0.744	0.672	0.823	14.27
4)	l1	1016-2	0.062	0.055	0.050	0.046	0.044	0.038	0.049	17.57
5)	l1	1016-3	0.061	0.059	0.055	0.054	0.050	0.045	0.054	10.83
6)	l1	1016-4	0.047	0.044	0.040	0.037	0.035	0.032	0.039	13.91
7)	l1	1016-5	0.041	0.035	0.032	0.032	0.030	0.027	0.033	13.88
8)	l2	1260-1	0.075	0.065	0.060	0.056	0.055	0.050	0.060	14.78
9)	l2	1260-2	0.108	0.092	0.085	0.084	0.079	0.072	0.087	14.52
10)	l2	1260-3	0.063	0.061	0.056	0.054	0.050	0.048	0.055	10.86
11)	l2	1260-4	0.133	0.134	0.128	0.117	0.116	0.104	0.122	9.46
12)	l2	1260-5	0.088	0.085	0.080	0.077	0.075	0.070	0.079	8.25
13)	i	2154_1br2nb	----------ISTD----------							
14)	l3	1221-1	0.015	0.014	0.013	0.012	0.011	0.010	0.013	14.18
15)	l3	1221-2	0.010	0.009	0.008	0.008	0.007	0.006	0.008	17.78
16)	l3	1221-3	0.036	0.032	0.029	0.027	0.024	0.022	0.028	18.91
17)	l4	1254-1	0.053	0.047	0.046	0.044	0.041	0.039	0.045	11.46
18)	l4	1254-2	0.091	0.080	0.079	0.074	0.071	0.065	0.077	11.63
19)	l4	1254-3	0.080	0.076	0.074	0.071	0.067	0.062	0.072	9.08
20)	l4	1254-4	0.058	0.055	0.054	0.052	0.050	0.048	0.053	7.16
21)	l4	1254-5	0.079	0.079	0.077	0.075	0.072	0.068	0.075	5.96
22)	i	4268_1br2nb	----------ISTD----------							
23)	l6	1242-1	0.057	0.047	0.043	0.039	0.037	0.034	0.043	19.41
24)	l6	1242-2	0.053	0.048	0.046	0.046	0.044	0.038	0.046	10.83
25)	l6	1242-3	0.042	0.036	0.034	0.034	0.031	0.027	0.034	14.39
26)	l6	1242-4	0.048	0.042	0.039	0.037	0.037	0.033	0.039	13.69
27)	l6	1242-5	0.032	0.027	0.025	0.025	0.025	0.024	0.026	10.56
28)	l9	1268-1	0.183	0.166	0.161	0.154	0.106	0.125	0.149	19.25
29)	l9	1268-2	0.191	0.176	0.172	0.166	0.108	0.135	0.158	19.38
30)	l9	1268-3	0.131	0.116	0.113	0.109	0.091	0.091	0.109	14.13
31)	l9	1268-4	0.058	0.050	0.050	0.049	0.043	0.046	0.049	10.75
32)	l9	1268-5	0.332	0.304	0.295	0.278	0.253	0.213	0.279	15.00
33)	i	1248_1br2nb	----------ISTD----------							
34)	l7	1248-1	0.049	0.044	0.038	0.037	0.033	0.030	0.039	17.96
35)	l7	1248-2	0.069	0.060	0.054	0.052	0.052	0.047	0.056	13.72
36)	l7	1248-3	0.051	0.046	0.046	0.044	0.044	0.041	0.045	7.68
37)	l7	1248-4	0.040	0.040	0.039	0.036	0.036	0.034	0.038	6.70
38)	l7	1248-5	0.087	0.080	0.074	0.070	0.073	0.067	0.075	9.74

Initial Calibration Summary
Form 6

Client	**: CHA Companies**	**Lab Number**	**: L1849060**
Project Name	**: 700 SMITH BLVD**	**Project Number**	**: 29852.1202.44000**
Instrument ID	**: PEST7**	**Ical Ref**	**: ICAL14857**
Calibration dates	**: 04/10/18 16:17 04/10/18 22:29**		

Calibration Files

1 =P7180410i-27.d 2 =P7180410i-28.d 3 =P7180410i-29.d 4 =P7180410i-30.d 5 =P7180410i-31.d

6 =P7180410i-32.d

	Compound	1	2	3	4	5	6	Avg	%RSD
39) i	3262_1br2nb	----------ISTD----------							
40) l5	1232-1	0.032	0.026	0.023	0.022	0.021	0.018	0.024	19.78
41) l5	1232-2	0.032	0.026	0.024	0.023	0.021	0.020	0.024	17.17
42) l5	1232-3	0.029	0.027	0.026	0.024	0.025	0.023	0.026	8.67
43) l5	1232-4	0.026	0.022	0.020	0.020	0.019	0.018	0.021	14.40
44) l5	1232-5	0.015	0.014	0.013	0.012	0.012	0.012	0.013	9.62
45) l8	1262-1	0.075	0.063	0.059	0.059	0.056	0.053	0.061	12.64
46) l8	1262-2	0.095	0.081	0.077	0.074	0.073	0.067	0.078	12.36
47) l8	1262-3	0.083	0.070	0.067	0.066	0.064	0.060	0.069	11.39
48) l8	1262-4	0.156	0.140	0.137	0.121	0.128	0.117	0.133	10.52
49) l8	1262-5	0.053	0.043	0.042	0.039	0.042	0.037	0.043	12.90

Initial Calibration Summary
Form 6

Client	**: CHA Companies**	**Lab Number**	**: L1849060**
Project Name	**: 700 SMITH BLVD**	**Project Number**	**: 29852.1202.44000**
Instrument ID	**: PEST7**	**Ical Ref**	**: ICAL14857**
Calibration dates	**: 04/10/18 16:17 04/10/18 22:29**		

Signal #2 Calibration Files

1 =P7180410i-27.d 2 =P7180410i-28.d 3 =P7180410i-29.d 4 =P7180410i-30.d 5 =P7180410i-31.d

6 =P7180410i-32.d

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	1660_1br2nb	----------ISTD----------							
2)	s	2,4,5,6-Tetra	1.272	1.225	1.174	1.130	1.095	1.009	1.151	8.17
3)	s	Decachlorobip	0.960	0.793	0.742	0.713	0.684	0.639	0.755	14.96
4)	l1	1016-2	0.064	0.057	0.051	0.047	0.045	0.042	0.051	16.31
5)	l1	1016-3	0.065	0.059	0.055	0.053	0.051	0.048	0.055	10.98
6)	l1	1016-4	0.045	0.041	0.037	0.035	0.033	0.032	0.037	12.97
7)	l1	1016-5	0.038	0.033	0.030	0.028	0.027	0.026	0.031	14.79
8)	l2	1260-1	0.070	0.057	0.052	0.050	0.049	0.046	0.054	15.77
9)	l2	1260-2	0.079	0.067	0.061	0.058	0.056	0.053	0.062	14.99
10)	l2	1260-3	0.062	0.054	0.049	0.048	0.046	0.044	0.050	12.93
11)	l2	1260-4	0.115	0.106	0.100	0.097	0.094	0.087	0.100	9.75
12)	l2	1260-5	0.081	0.074	0.068	0.068	0.064	0.062	0.070	10.15
13)	i	2154_1br2nb	----------ISTD----------							
14)	l3	1221-1	0.017	0.015	0.014	0.013	0.012	0.011	0.013	14.92
15)	l3	1221-2	0.011	0.010	0.009	0.008	0.007	0.007	0.009	18.18
16)	l3	1221-3	0.039	0.034	0.031	0.028	0.027	0.025	0.031	17.45
17)	l4	1254-1	0.056	0.049	0.046	0.044	0.042	0.040	0.046	13.06
18)	l4	1254-2	0.064	0.055	0.051	0.049	0.046	0.044	0.051	13.93
19)	l4	1254-3	0.082	0.073	0.069	0.067	0.064	0.061	0.069	11.18
20)	l4	1254-4	0.056	0.051	0.048	0.046	0.045	0.044	0.048	9.36
21)	l4	1254-5	0.076	0.070	0.066	0.063	0.063	0.060	0.066	9.00
22)	i	4268_1br2nb	----------ISTD----------							
23)	l6	1242-1	0.058	0.048	0.044	0.040	0.038	0.034	0.044	19.50
24)	l6	1242-2	0.058	0.048	0.045	0.045	0.044	0.039	0.047	13.72
25)	l6	1242-3	0.040	0.034	0.031	0.029	0.029	0.026	0.032	15.99
26)	l6	1242-4	0.034	0.029	0.026	0.024	0.024	0.022	0.027	16.39
27)	l6	1242-5	0.032	0.027	0.024	0.023	0.023	0.021	0.025	15.96
28)	l9	1268-1	0.170	0.142	0.136	0.131	0.129	0.111	0.137	14.12
29)	l9	1268-2	0.170	0.142	0.137	0.136	0.137	0.120	0.140	11.60
30)	l9	1268-3	0.118	0.099	0.095	0.092	0.093	0.082	0.097	12.53
31)	l9	1268-4	0.051	0.043	0.042	0.041	0.045	0.040	0.044	8.97
32)	l9	1268-5	0.303	0.272	0.258	0.248	0.240	0.199	0.253	13.63
33)	i	1248_1br2nb	----------ISTD----------							
34)	l7	1248-1	0.045	0.037	0.033	0.030	0.030	0.027	0.034	19.63
35)	l7	1248-2	0.052	0.043	0.039	0.036	0.036	0.033	0.040	17.02
36)	l7	1248-3	0.054	0.046	0.041	0.038	0.039	0.036	0.042	15.23
37)	l7	1248-4	0.059	0.050	0.045	0.043	0.043	0.040	0.047	15.07
38)	l7	1248-5	0.053	0.045	0.040	0.038	0.039	0.036	0.042	15.05

Initial Calibration Summary
Form 6

Client	**: CHA Companies**	**Lab Number**	**: L1849060**
Project Name	**: 700 SMITH BLVD**	**Project Number**	**: 29852.1202.44000**
Instrument ID	**: PEST7**	**Ical Ref**	**: ICAL14857**
Calibration dates	**: 04/10/18 16:17 04/10/18 22:29**		

Signal #2 Calibration Files

1 =P7180410i-27.d 2 =P7180410i-28.d 3 =P7180410i-29.d 4 =P7180410i-30.d 5 =P7180410i-31.d

6 =P7180410i-32.d

	Compound	1	2	3	4	5	6	Avg	%RSD
39) i	3262_1br2nb	----------ISTD----------							
40) l5	1232-1	0.035	0.028	0.025	0.024	0.022	0.020	0.026	20.48
41) l5	1232-2	0.035	0.029	0.026	0.025	0.022	0.021	0.027	19.18
42) l5	1232-3	0.033	0.028	0.026	0.026	0.024	0.024	0.027	13.29
43) l5	1232-4	0.019	0.016	0.014	0.013	0.012	0.012	0.014	17.33
44) l5	1232-5	0.017	0.014	0.013	0.012	0.012	0.011	0.013	16.83
45) l8	1262-1	0.062	0.049	0.046	0.042	0.043	0.041	0.047	16.53
46) l8	1262-2	0.087	0.068	0.063	0.059	0.059	0.056	0.065	17.79
47) l8	1262-3	0.077	0.062	0.058	0.052	0.054	0.052	0.059	15.94
48) l8	1262-4	0.131	0.110	0.104	0.097	0.099	0.093	0.106	12.74
49) l8	1262-5	0.099	0.079	0.075	0.069	0.071	0.069	0.077	14.63

Initial Calibration Summary
Form 6

Client	**: CHA Companies**	**Lab Number**	**: L1849060**
Project Name	**: 700 SMITH BLVD**	**Project Number**	**: 29852.1202.44000**
Instrument ID	**: PEST16**	**Ical Ref**	**: ICAL14982**
Calibration dates	**: 08/09/18 09:38 08/09/18 15:52**		

Calibration Files
1 =180809ical-21.d 2 =180809ical-22.d 3 =180809ical-23.d 4 =180809ical-24.d
5 =180809ical-25.d 6 =180809ical-26.d

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	1660_1br2nb	----------ISTD----------							
2)	s	2,4,5,6-Tetrachloro-m-xylene	1.130	1.202	1.278	1.316	1.288	1.317	1.255	5.92
3)	s	Decachlorobiphenyl	0.881	0.875	0.923	0.920	0.908	0.954	0.910	3.22
4)	l1	1016-1	0.019	0.019	0.019	0.018	0.017	0.018	0.018	4.37
5)	l1	1016-2	0.048	0.045	0.045	0.044	0.041	0.042	0.044	5.23
6)	l1	1016-3	0.076	0.076	0.076	0.077	0.080	0.077	0.077	1.87
7)	l1	1016-4	0.033	0.034	0.034	0.033	0.033	0.034	0.034	0.83
8)	l1	1016-5	0.041	0.039	0.040	0.039	0.037	0.041	0.039	3.62
9)	l2	1260-1	0.060	0.056	0.057	0.056	0.056	0.058	0.057	2.74
10)	l2	1260-2	0.091	0.082	0.084	0.083	0.082	0.085	0.084	4.26
11)	l2	1260-3	0.050	0.051	0.055	0.053	0.054	0.057	0.053	4.61
12)	l2	1260-4	0.108	0.111	0.117	0.117	0.116	0.118	0.115	3.80
13)	l2	1260-5	0.077	0.078	0.081	0.081	0.081	0.086	0.081	3.71
14)	i	2154_1br2nb	----------ISTD----------							
15)	l3	1221-2	0.010	0.011	0.011	0.011	0.011	0.010	0.011	4.85
16)	l3	1221-3	0.007	0.007	0.006	0.006	0.006	0.006	0.006	7.94
17)	l3	1221-4	0.026	0.026	0.027	0.026	0.025	0.023	0.026	5.73
18)	l4	1254-2	0.099	0.075	0.078	0.073	0.074	0.066	0.078	14.64
19)	l4	1254-3	0.069	0.072	0.076	0.073	0.074	0.067	0.072	4.70
20)	l4	1254-4	0.060	0.046	0.046	0.045	0.047	0.044	0.048	12.15
21)	l4	1254-5	0.070	0.075	0.080	0.077	0.081	0.072	0.076	5.99
22)	i	4268_1br2nb	----------ISTD----------							
23)	l6	1242-1	0.015	0.017	0.015	0.015	0.014	0.014	0.015	8.06
24)	l6	1242-2	0.044	0.042	0.035	0.039	0.034	0.034	0.038	11.75
25)	l6	1242-3	0.064	0.063	0.061	0.065	0.062	0.059	0.062	3.29
26)	l6	1242-4	0.039	0.036	0.031	0.037	0.033	0.034	0.035	8.34
27)	l6	1242-5	0.024	0.022	0.020	0.020	0.021	0.020	0.021	7.16
28)	l9	1268-1	0.172	0.178	0.152	0.189	0.168	0.164	0.171	7.44
29)	l9	1268-2	0.173	0.183	0.157	0.197	0.176	0.174	0.177	7.56
30)	l9	1268-3	0.113	0.117	0.101	0.128	0.115	0.116	0.115	7.53
31)	l9	1268-4	0.053	0.054	0.048	0.059	0.054	0.057	0.054	7.16
32)	l9	1268-5	0.315	0.344	0.296	0.370	0.325	0.310	0.326	8.13
33)	i	1248_1br2nb	----------ISTD----------							
34)	l7	1248-1	0.020	0.020	0.019	0.018	0.018	0.020	0.019	5.33
35)	l7	1248-2	0.036	0.035	0.031	0.032	0.031	0.033	0.033	6.16
36)	l7	1248-3	0.052	0.052	0.051	0.049	0.047	0.051	0.050	4.40
37)	l7	1248-4	0.044	0.038	0.038	0.035	0.034	0.039	0.038	9.68
38)	l7	1248-5	0.028	0.032	0.030	0.030	0.029	0.033	0.030	6.39

Initial Calibration Summary
Form 6

Client	**: CHA Companies**	**Lab Number**	**: L1849060**
Project Name	**: 700 SMITH BLVD**	**Project Number**	**: 29852.1202.44000**
Instrument ID	**: PEST16**	**Ical Ref**	**: ICAL14982**
Calibration dates	**: 08/09/18 09:38 08/09/18 15:52**		

Calibration Files

1 =180809ical-21.d 2 =180809ical-22.d 3 =180809ical-23.d 4 =180809ical-24.d

5 =180809ical-25.d 6 =180809ical-26.d

		Compound	1	2	3	4	5	6	Avg	%RSD
39)	i	3262_1br2nb	----------ISTD----------							
40)	l5	1232-1	0.022	0.023	0.023	0.021	0.019	0.020	0.021	7.73
41)	l5	1232-2	0.024	0.024	0.023	0.022	0.019	0.021	0.022	8.86
42)	l5	1232-3	0.040	0.036	0.037	0.037	0.033	0.039	0.037	6.69
43)	l5	1232-4	0.017	0.020	0.019	0.019	0.017	0.019	0.019	7.32
44)	l8	1262-1	0.061	0.064	0.064	0.063	0.055	0.063	0.062	5.26
45)	l8	1262-2	0.081	0.085	0.085	0.084	0.073	0.081	0.081	5.30
46)	l8	1262-3	0.071	0.074	0.076	0.075	0.066	0.074	0.073	5.10
47)	l8	1262-4	0.134	0.140	0.142	0.144	0.126	0.139	0.138	4.74
48)	l8	1262-5	0.058	0.062	0.057	0.062	0.053	0.060	0.059	5.55

Initial Calibration Summary
Form 6

Client	**: CHA Companies**	**Lab Number**	**: L1849060**
Project Name	**: 700 SMITH BLVD**	**Project Number**	**: 29852.1202.44000**
Instrument ID	**: PEST16**	**Ical Ref**	**: ICAL14982**
Calibration dates	**: 08/09/18 09:38 08/09/18 15:52**		

Signal #2 Calibration Files

1 =180809ical-21.d 2 =180809ical-22.d 3 =180809ical-23.d 4 =180809ical-24.d

5 =180809ical-25.d 6 =180809ical-26.d

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	1660_1br2nb	----------ISTD----------							
2)	s	2,4,5,6-Tetra	1.179	1.193	1.255	1.230	1.223	1.272	1.225	2.91
3)	s	Decachlorobip	0.686	0.633	0.657	0.646	0.647	0.703	0.662	4.06
4)	l1	1016-1	0.023	0.020	0.020	0.019	0.018	0.019	0.020	9.55
5)	l1	1016-2	0.046	0.045	0.046	0.042	0.041	0.042	0.044	4.83
6)	l1	1016-3	0.076	0.076	0.077	0.075	0.074	0.077	0.076	1.22
7)	l1	1016-4	0.033	0.030	0.030	0.029	0.029	0.030	0.030	5.72
8)	l1	1016-5	0.028	0.027	0.028	0.026	0.025	0.026	0.027	4.14
9)	l2	1260-1	0.053	0.051	0.047	0.045	0.044	0.047	0.048	7.30
10)	l2	1260-2	0.056	0.051	0.053	0.051	0.051	0.054	0.053	3.66
11)	l2	1260-3	0.050	0.041	0.043	0.042	0.042	0.045	0.044	8.05
12)	l2	1260-4	0.090	0.085	0.090	0.089	0.089	0.095	0.090	3.45
13)	l2	1260-5	0.059	0.057	0.059	0.058	0.058	0.063	0.059	3.58
14)	i	2154_1br2nb	----------ISTD----------							
15)	l3	1221-2	0.012	0.012	0.012	0.011	0.011	0.010	0.011	7.17
16)	l3	1221-3	0.008	0.007	0.008	0.007	0.007	0.006	0.007	9.37
17)	l3	1221-4	0.031	0.029	0.030	0.028	0.028	0.024	0.028	9.39
18)	l4	1254-2	0.052	0.049	0.048	0.045	0.046	0.040	0.047	8.42
19)	l4	1254-3	0.075	0.067	0.068	0.066	0.068	0.061	0.068	7.05
20)	l4	1254-4	0.045	0.037	0.035	0.035	0.037	0.034	0.037	11.15
21)	l4	1254-5	0.053	0.058	0.060	0.058	0.061	0.054	0.057	5.64
22)	i	4268_1br2nb	----------ISTD----------							
23)	l6	1242-1	0.019	0.018	0.016	0.017	0.015	0.015	0.017	10.72
24)	l6	1242-2	0.043	0.043	0.036	0.039	0.035	0.034	0.038	10.60
25)	l6	1242-3	0.062	0.066	0.062	0.065	0.061	0.060	0.063	3.39
26)	l6	1242-4	0.026	0.026	0.022	0.025	0.022	0.022	0.024	8.22
27)	l6	1242-5	0.020	0.020	0.018	0.018	0.017	0.017	0.018	7.21
28)	l9	1268-1	0.132	0.134	0.113	0.139	0.125	0.126	0.128	7.05
29)	l9	1268-2	0.132	0.136	0.116	0.144	0.130	0.132	0.132	6.98
30)	l9	1268-3	0.086	0.087	0.074	0.093	0.084	0.087	0.085	7.18
31)	l9	1268-4	0.041	0.042	0.036	0.044	0.040	0.042	0.041	6.22
32)	l9	1268-5	0.244	0.258	0.221	0.277	0.248	0.242	0.248	7.40
33)	i	1248_1br2nb	----------ISTD----------							
34)	l7	1248-1	0.019	0.020	0.019	0.018	0.017	0.019	0.018	5.63
35)	l7	1248-2	0.031	0.030	0.028	0.027	0.025	0.027	0.028	8.08
36)	l7	1248-3	0.039	0.037	0.034	0.033	0.032	0.034	0.035	7.87
37)	l7	1248-4	0.040	0.033	0.031	0.029	0.028	0.032	0.032	13.49
38)	l7	1248-5	0.042	0.037	0.034	0.033	0.032	0.036	0.036	9.80

Initial Calibration Summary
Form 6

Client	**: CHA Companies**	**Lab Number**	**: L1849060**
Project Name	**: 700 SMITH BLVD**	**Project Number**	**: 29852.1202.44000**
Instrument ID	**: PEST16**	**Ical Ref**	**: ICAL14982**
Calibration dates	**: 08/09/18 09:38 08/09/18 15:52**		

Signal #2 Calibration Files

1 =180809ical-21.d 2 =180809ical-22.d 3 =180809ical-23.d 4 =180809ical-24.d

5 =180809ical-25.d 6 =180809ical-26.d

	Compound	1	2	3	4	5	6	Avg	%RSD
39) i	3262_1br2nb	----------ISTD----------							
40) l5	1232-1	0.029	0.025	0.024	0.022	0.020	0.022	0.024	13.16
41) l5	1232-2	0.025	0.025	0.025	0.022	0.020	0.022	0.023	9.49
42) l5	1232-3	0.035	0.034	0.039	0.035	0.032	0.039	0.036	7.37
43) l5	1232-4	0.015	0.015	0.014	0.012	0.011	0.012	0.013	11.88
44) l8	1262-1	0.041	0.043	0.043	0.041	0.036	0.042	0.041	6.21
45) l8	1262-2	0.061	0.060	0.061	0.058	0.051	0.059	0.059	6.26
46) l8	1262-3	0.057	0.055	0.056	0.054	0.048	0.055	0.054	5.99
47) l8	1262-4	0.106	0.103	0.106	0.103	0.092	0.105	0.102	5.42
48) l8	1262-5	0.081	0.072	0.073	0.070	0.063	0.073	0.072	8.18

Initial Calibration Summary
Form 6

Client	**: CHA Companies**	**Lab Number**	**: L1849060**
Project Name	**: 700 SMITH BLVD**	**Project Number**	**: 29852.1202.44000**
Instrument ID	**: PEST12**	**Ical Ref**	**: ICAL15152**
Calibration dates	**: 10/13/18 11:31 10/13/18 17:30**		

Calibration Files

1 =12181013ical-09.d 2 =12181013ical-10.d 3 =12181013ical-11.d 4 =12181013ical-12.d

5 =12181013ical-13.d 6 =12181013ical-14.d

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	1660_1br2nb	----------ISTD----------							
2)	s	2,4,5,6-Tetrachloro-m-xylene	1.133	1.085	1.061	1.013	1.021	0.965	1.046	5.68
3)	s	Decachlorobiphenyl	0.675	0.645	0.637	0.612	0.593	0.588	0.625	5.36
4)	l1	1016-1	0.020	0.020	0.020	0.018	0.017	0.016	0.018	9.95
5)	l1	1016-2	0.046	0.043	0.041	0.038	0.036	0.034	0.040	11.52
6)	l1	1016-3	0.091	0.085	0.082	0.077	0.074	0.070	0.080	9.44
7)	l1	1016-4	0.038	0.034	0.034	0.033	0.031	0.029	0.033	8.93
8)	l1	1016-5	0.040	0.038	0.036	0.034	0.033	0.031	0.035	8.74
9)	l2	1260-2	0.079	0.075	0.072	0.068	0.064	0.062	0.070	9.40
10)	l2	1260-3	0.047	0.046	0.043	0.041	0.040	0.039	0.043	7.38
11)	l2	1260-4	0.104	0.101	0.097	0.095	0.094	0.088	0.096	5.60
12)	l2	1260-5	0.071	0.067	0.064	0.062	0.060	0.059	0.064	7.11
13)	i	2154_1br2nb	----------ISTD----------							
14)	l3	1221-1	0.011	0.012	0.011	0.011	0.010		0.011	7.00
15)	l3	1221-2	0.007	0.007	0.007	0.007	0.006		0.007	6.04
16)	l3	1221-3	0.027	0.027	0.026	0.024	0.022		0.025	9.01
17)	l4	1254-1	0.039	0.038	0.038	0.034	0.033	0.031	0.036	9.85
18)	l4	1254-2	0.073	0.067	0.067	0.062	0.057	0.053	0.063	11.40
19)	l4	1254-3	0.065	0.064	0.064	0.060	0.057	0.053	0.060	8.36
20)	l4	1254-4	0.049	0.048	0.051	0.047	0.045	0.042	0.047	7.08
21)	l4	1254-5	0.066	0.065	0.067	0.063	0.059	0.056	0.063	7.06
22)	i	4268_1br2nb	----------ISTD----------							
23)	l6	1242-1	0.016	0.016	0.015	0.014	0.013	0.012	0.014	11.96
24)	l6	1242-2	0.038	0.035	0.033	0.032	0.028	0.026	0.032	13.57
25)	l6	1242-3	0.073	0.071	0.067	0.064	0.059	0.055	0.065	10.47
26)	l6	1242-4	0.032	0.032	0.031	0.029	0.027	0.025	0.029	9.80
27)	l6	1242-5	0.024	0.024	0.021	0.023	0.020	0.019	0.022	9.84
28)	l9	1268-1	0.129	0.130	0.121	0.119	0.112	0.106	0.119	7.89
29)	l9	1268-2	0.135	0.128	0.121	0.121	0.114	0.108	0.121	7.88
30)	l9	1268-3	0.086	0.085	0.080	0.080	0.075	0.072	0.080	6.98
31)	l9	1268-4	0.041	0.041	0.040	0.039	0.037	0.036	0.039	5.59
32)	l9	1268-5	0.234	0.225	0.211	0.214	0.201	0.193	0.213	7.05
33)	i	1248_1br2nb	----------ISTD----------							
34)	l7	1248-1	0.025	0.023	0.021	0.021	0.018	0.019	0.021	12.39
35)	l7	1248-2	0.031	0.029	0.028	0.028	0.024	0.026	0.028	9.16
36)	l7	1248-3	0.049	0.047	0.043	0.041	0.037	0.040	0.043	10.82
37)	l7	1248-4	0.044	0.041	0.039	0.034	0.033	0.036	0.038	11.15
38)	l7	1248-5	0.035	0.034	0.034	0.029	0.028	0.030	0.032	8.81

Initial Calibration Summary
Form 6

Client	**: CHA Companies**	**Lab Number**	**: L1849060**
Project Name	**: 700 SMITH BLVD**	**Project Number**	**: 29852.1202.44000**
Instrument ID	**: PEST12**	**Ical Ref**	**: ICAL15152**
Calibration dates	**: 10/13/18 11:31 10/13/18 17:30**		

Calibration Files

1 =12181013ical-09.d 2 =12181013ical-10.d 3 =12181013ical-11.d 4 =12181013ical-12.d

5 =12181013ical-13.d 6 =12181013ical-14.d

	Compound	1	2	3	4	5	6	Avg	%RSD
39) i	3262_1br2nb	----------ISTD----------							
40) l5	1232-1	0.024	0.023	0.022	0.019	0.016	0.017	*L	0.9934
41) l5	1232-2	0.023	0.022	0.021	0.018	0.016	0.017	*L	0.9946
42) l5	1232-3	0.047	0.043	0.042	0.038	0.033	0.036	*L	0.9953
43) l5	1232-4	0.017	0.018	0.017	0.016	0.013	0.015	*L	0.9943
44) l5	1232-5	0.013	0.014	0.012	0.011	0.010	0.011	*L	0.9961
45) l8	1262-1	0.063	0.055	0.054	0.048	0.041	0.046	0.051	15.22
46) l8	1262-2	0.072	0.066	0.065	0.059	0.050	0.056	0.061	12.85
47) l8	1262-3	0.065	0.058	0.058	0.052	0.044	0.051	0.054	12.92
48) l8	1262-4	0.129	0.108	0.113	0.105	0.091	0.105	0.109	11.33
49) l8	1262-5	0.047	0.044	0.044	0.039	0.035	0.037	0.041	11.62

Initial Calibration Summary
Form 6

Client	**: CHA Companies**	**Lab Number**	**: L1849060**
Project Name	**: 700 SMITH BLVD**	**Project Number**	**: 29852.1202.44000**
Instrument ID	**: PEST12**	**Ical Ref**	**: ICAL15152**
Calibration dates	**: 10/13/18 11:31 10/13/18 17:30**		

Signal #2 Calibration Files

1 =12181013ical-09.d 2 =12181013ical-10.d 3 =12181013ical-11.d 4 =12181013ical-12.d

5 =12181013ical-13.d 6 =12181013ical-14.d

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	1660_1br2nb	----------ISTD----------							
2)	s	2,4,5,6-Tetra	1.226	1.179	1.150	1.083	1.086	1.021	1.124	6.63
3)	s	Decachlorobip	0.732	0.696	0.668	0.640	0.625	0.630	0.665	6.38
4)	l1	1016-1	0.020	0.021	0.021	0.019	0.018	0.017	0.019	8.31
5)	l1	1016-2	0.049	0.047	0.045	0.042	0.041	0.038	0.043	9.64
6)	l1	1016-3	0.104	0.097	0.093	0.086	0.084	0.079	0.091	10.08
7)	l1	1016-4	0.037	0.035	0.035	0.033	0.032	0.030	0.034	7.75
8)	l1	1016-5	0.026	0.026	0.027	0.026	0.025	0.024	0.025	4.82
9)	l2	1260-2	0.056	0.061	0.059	0.055	0.053	0.052	0.056	6.10
10)	l2	1260-3	0.038	0.045	0.044	0.041	0.040	0.039	0.041	6.76
11)	l2	1260-4	0.099	0.094	0.093	0.088	0.086	0.085	0.091	5.91
12)	l2	1260-5	0.063	0.064	0.063	0.058	0.058	0.058	0.061	4.98
13)	i	2154_1br2nb	----------ISTD----------							
14)	l3	1221-1	0.016	0.013	0.013	0.012	0.011		0.013	14.56
15)	l3	1221-2	0.008	0.008	0.008	0.007	0.007		0.007	5.93
16)	l3	1221-3	0.030	0.029	0.029	0.026	0.025		0.028	8.08
17)	l4	1254-1	0.042	0.041	0.043	0.041	0.038	0.036	0.040	6.41
18)	l4	1254-2	0.051	0.049	0.049	0.046	0.044	0.041	0.047	8.33
19)	l4	1254-3	0.073	0.071	0.072	0.068	0.066	0.061	0.069	6.39
20)	l4	1254-4	0.046	0.047	0.047	0.045	0.045	0.040	0.045	5.94
21)	l4	1254-5	0.063	0.061	0.061	0.058	0.056	0.053	0.059	6.33
22)	i	4268_1br2nb	----------ISTD----------							
23)	l6	1242-1	0.014	0.017	0.017	0.016	0.015	0.013	0.015	9.14
24)	l6	1242-2	0.037	0.038	0.037	0.035	0.033	0.029	0.035	9.27
25)	l6	1242-3	0.080	0.079	0.075	0.073	0.068	0.061	0.073	9.52
26)	l6	1242-4	0.020	0.022	0.022	0.022	0.021	0.019	0.021	5.42
27)	l6	1242-5	0.024	0.023	0.022	0.022	0.021	0.019	0.022	7.41
28)	l9	1268-1	0.127	0.120	0.117	0.117	0.110	0.103	0.116	7.31
29)	l9	1268-2	0.134	0.128	0.122	0.125	0.120	0.112	0.123	6.06
30)	l9	1268-3	0.086	0.086	0.081	0.083	0.079	0.075	0.081	5.08
31)	l9	1268-4	0.037	0.037	0.036	0.037	0.035	0.034	0.036	4.18
32)	l9	1268-5	0.238	0.227	0.216	0.222	0.212	0.198	0.219	6.20
33)	i	1248_1br2nb	----------ISTD----------							
34)	l7	1248-1	0.028	0.025	0.021	0.023	0.021	0.024	0.024	11.05
35)	l7	1248-2	0.031	0.030	0.025	0.026	0.024	0.026	0.027	10.75
36)	l7	1248-3	0.035	0.036	0.030	0.031	0.029	0.032	0.032	9.08
37)	l7	1248-4	0.041	0.042	0.035	0.036	0.033	0.036	0.037	9.07
38)	l7	1248-5	0.042	0.046	0.039	0.040	0.036	0.039	0.040	8.14

Initial Calibration Summary
Form 6

Client	**: CHA Companies**	**Lab Number**	**: L1849060**
Project Name	**: 700 SMITH BLVD**	**Project Number**	**: 29852.1202.44000**
Instrument ID	**: PEST12**	**Ical Ref**	**: ICAL15152**
Calibration dates	**: 10/13/18 11:31 10/13/18 17:30**		

Signal #2 Calibration Files

1 =12181013ical-09.d 2 =12181013ical-10.d 3 =12181013ical-11.d 4 =12181013ical-12.d

5 =12181013ical-13.d 6 =12181013ical-14.d

		Compound	1	2	3	4	5	6	Avg	%RSD
39)	i	3262_1br2nb	----------ISTD----------							
40)	l5	1232-1	0.025	0.023	0.024	0.022	0.018	0.019	0.022	11.68
41)	l5	1232-2	0.024	0.024	0.024	0.022	0.018	0.020	0.022	10.79
42)	l5	1232-3	0.052	0.047	0.048	0.042	0.037	0.040	0.044	12.73
43)	l5	1232-4	0.019	0.018	0.018	0.016	0.014	0.015	0.017	11.81
44)	l5	1232-5	0.013	0.012	0.013	0.012	0.011	0.012	0.012	8.06
45)	l8	1262-1	0.045	0.045	0.045	0.042	0.036	0.040	0.042	8.58
46)	l8	1262-2	0.062	0.061	0.060	0.055	0.048	0.054	0.057	9.35
47)	l8	1262-3	0.056	0.052	0.054	0.047	0.041	0.047	0.050	10.88
48)	l8	1262-4	0.113	0.103	0.103	0.092	0.081	0.092	0.097	11.49
49)	l8	1262-5	0.081	0.073	0.072	0.065	0.055	0.065	0.068	12.89

Response Factor Report Pest 7

Method Path : I:\Pest7\180410ICAL\
Method File : P7_pcb_04_10_18_ugL_ICAL.m
Title : pcb
Last Update : Fri Jul 06 03:28:46 2018
Response Via : Initial Calibration

Calibration Files
1 =P7180410i-27.d 2 =P7180410i-28.d 3 =P7180410i-29.d 4 =P7180410i-30.d 5 =P7180410i-31.d
6 =P7180410i-32.d

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	1660_1br2nb	----------ISTD----------							
2)	s	2,4,5,6-Tetra...	1.304	1.306	1.251	1.208	1.145	0.995	1.202	9.84
3)	s	Decachlorobip...	1.008	0.893	0.831	0.791	0.744	0.672	0.823	14.27
4)	l1	1016-2	0.062	0.055	0.050	0.046	0.044	0.038	0.049	17.57
5)	l1	1016-3	0.061	0.059	0.055	0.054	0.050	0.045	0.054	10.83
6)	l1	1016-4	0.047	0.044	0.040	0.037	0.035	0.032	0.039	13.91
7)	l1	1016-5	0.041	0.035	0.032	0.032	0.030	0.027	0.033	13.88
8)	l2	1260-1	0.075	0.065	0.060	0.056	0.055	0.050	0.060	14.78
9)	l2	1260-2	0.108	0.092	0.085	0.084	0.079	0.072	0.087	14.52
10)	l2	1260-3	0.063	0.061	0.056	0.054	0.050	0.048	0.055	10.86
11)	l2	1260-4	0.133	0.134	0.128	0.117	0.116	0.104	0.122	9.46
12)	l2	1260-5	0.088	0.085	0.080	0.077	0.075	0.070	0.079	8.25
13)	i	2154_1br2nb	----------ISTD----------							
14)	l3	1221-1	0.015	0.014	0.013	0.012	0.011	0.010	0.013	14.18
15)	l3	1221-2	0.010	0.009	0.008	0.008	0.007	0.006	0.008	17.78
16)	l3	1221-3	0.036	0.032	0.029	0.027	0.024	0.022	0.028	18.91
17)	l4	1254-1	0.053	0.047	0.046	0.044	0.041	0.039	0.045	11.46
18)	l4	1254-2	0.091	0.080	0.079	0.074	0.071	0.065	0.077	11.63
19)	l4	1254-3	0.080	0.076	0.074	0.071	0.067	0.062	0.072	9.08
20)	l4	1254-4	0.058	0.055	0.054	0.052	0.050	0.048	0.053	7.16
21)	l4	1254-5	0.079	0.079	0.077	0.075	0.072	0.068	0.075	5.96
22)	i	4268_1br2nb	----------ISTD----------							
23)	l6	1242-1	0.057	0.047	0.043	0.039	0.037	0.034	0.043	19.41
24)	l6	1242-2	0.053	0.048	0.046	0.046	0.044	0.038	0.046	10.83
25)	l6	1242-3	0.042	0.036	0.034	0.034	0.031	0.027	0.034	14.39
26)	l6	1242-4	0.048	0.042	0.039	0.037	0.037	0.033	0.039	13.69
27)	l6	1242-5	0.032	0.027	0.025	0.025	0.025	0.024	0.026	10.56
28)	l9	1268-1	0.183	0.166	0.161	0.154	0.106	0.125	0.149	19.25
29)	l9	1268-2	0.191	0.176	0.172	0.166	0.108	0.135	0.158	19.38

Method Path : I:\Pest7\180410ICAL\
Method File : P7_pcb_04_10_18_ugL_ICAL.m
Title : pcb
Last Update : Fri Jul 06 03:28:46 2018
Response Via : Initial Calibration

Calibration Files
1 =P7180410i-27.d 2 =P7180410i-28.d 3 =P7180410i-29.d 4 =P7180410i-30.d 5 =P7180410i-31.d
6 =P7180410i-32.d

		Compound	1	2	3	4	5	6	Avg	%RSD
30)	l9	1268-3	0.131	0.116	0.113	0.109	0.091	0.091	0.109	14.13
31)	l9	1268-4	0.058	0.050	0.050	0.049	0.043	0.046	0.049	10.75
32)	l9	1268-5	0.332	0.304	0.295	0.278	0.253	0.213	0.279	15.00
33)	i	1248_1br2nb	----------ISTD----------							
34)	l7	1248-1	0.049	0.044	0.038	0.037	0.033	0.030	0.039	17.96
35)	l7	1248-2	0.069	0.060	0.054	0.052	0.052	0.047	0.056	13.72
36)	l7	1248-3	0.051	0.046	0.046	0.044	0.044	0.041	0.045	7.68
37)	l7	1248-4	0.040	0.040	0.039	0.036	0.036	0.034	0.038	6.70
38)	l7	1248-5	0.087	0.080	0.074	0.070	0.073	0.067	0.075	9.74
39)	i	3262_1br2nb	----------ISTD----------							
40)	l5	1232-1	0.032	0.026	0.023	0.022	0.021	0.018	0.024	19.78
41)	l5	1232-2	0.032	0.026	0.024	0.023	0.021	0.020	0.024	17.17
42)	l5	1232-3	0.029	0.027	0.026	0.024	0.025	0.023	0.026	8.67
43)	l5	1232-4	0.026	0.022	0.020	0.020	0.019	0.018	0.021	14.40
44)	l5	1232-5	0.015	0.014	0.013	0.012	0.012	0.012	0.013	9.62
45)	l8	1262-1	0.075	0.063	0.059	0.059	0.056	0.053	0.061	12.64
46)	l8	1262-2	0.095	0.081	0.077	0.074	0.073	0.067	0.078	12.36
47)	l8	1262-3	0.083	0.070	0.067	0.066	0.064	0.060	0.069	11.39
48)	l8	1262-4	0.156	0.140	0.137	0.121	0.128	0.117	0.133	10.52
49)	l8	1262-5	0.053	0.043	0.042	0.039	0.042	0.037	0.043	12.90

Signal #2 Calibration Files
1 =P7180410i-27.d 2 =P7180410i-28.d 3 =P7180410i-29.d 4 =P7180410i-30.d 5 =P7180410i-31.d
6 =P7180410i-32.d

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	1660_1br2nb	----------ISTD----------							
2)	s	2,4,5,6-Tetra...	1.272	1.225	1.174	1.130	1.095	1.009	1.151	8.17
3)	s	Decachlorobip...	0.960	0.793	0.742	0.713	0.684	0.639	0.755	14.96

Method Path : I:\Pest7\180410ICAL\
Method File : P7_pcb_04_10_18_ugL_ICAL.m
Title : pcb
Last Update : Fri Jul 06 03:28:46 2018
Response Via : Initial Calibration

Calibration Files
1 =P7180410i-27.d 2 =P7180410i-28.d 3 =P7180410i-29.d 4 =P7180410i-30.d 5 =P7180410i-31.d
6 =P7180410i-32.d

	Compound		1	2	3	4	5	6	Avg	%RSD
4)	l1	1016-2	0.064	0.057	0.051	0.047	0.045	0.042	0.051	16.31
5)	l1	1016-3	0.065	0.059	0.055	0.053	0.051	0.048	0.055	10.98
6)	l1	1016-4	0.045	0.041	0.037	0.035	0.033	0.032	0.037	12.97
7)	l1	1016-5	0.038	0.033	0.030	0.028	0.027	0.026	0.031	14.79
8)	l2	1260-1	0.070	0.057	0.052	0.050	0.049	0.046	0.054	15.77
9)	l2	1260-2	0.079	0.067	0.061	0.058	0.056	0.053	0.062	14.99
10)	l2	1260-3	0.062	0.054	0.049	0.048	0.046	0.044	0.050	12.93
11)	l2	1260-4	0.115	0.106	0.100	0.097	0.094	0.087	0.100	9.75
12)	l2	1260-5	0.081	0.074	0.068	0.068	0.064	0.062	0.070	10.15
13)	i	2154_1br2nb	----------ISTD----------							
14)	l3	1221-1	0.017	0.015	0.014	0.013	0.012	0.011	0.013	14.92
15)	l3	1221-2	0.011	0.010	0.009	0.008	0.007	0.007	0.009	18.18
16)	l3	1221-3	0.039	0.034	0.031	0.028	0.027	0.025	0.031	17.45
17)	l4	1254-1	0.056	0.049	0.046	0.044	0.042	0.040	0.046	13.06
18)	l4	1254-2	0.064	0.055	0.051	0.049	0.046	0.044	0.051	13.93
19)	l4	1254-3	0.082	0.073	0.069	0.067	0.064	0.061	0.069	11.18
20)	l4	1254-4	0.056	0.051	0.048	0.046	0.045	0.044	0.048	9.36
21)	l4	1254-5	0.076	0.070	0.066	0.063	0.063	0.060	0.066	9.00
22)	i	4268_1br2nb	----------ISTD----------							
23)	l6	1242-1	0.058	0.048	0.044	0.040	0.038	0.034	0.044	19.50
24)	l6	1242-2	0.058	0.048	0.045	0.045	0.044	0.039	0.047	13.72
25)	l6	1242-3	0.040	0.034	0.031	0.029	0.029	0.026	0.032	15.99
26)	l6	1242-4	0.034	0.029	0.026	0.024	0.024	0.022	0.027	16.39
27)	l6	1242-5	0.032	0.027	0.024	0.023	0.023	0.021	0.025	15.96
28)	l9	1268-1	0.170	0.142	0.136	0.131	0.129	0.111	0.137	14.12
29)	l9	1268-2	0.170	0.142	0.137	0.136	0.137	0.120	0.140	11.60
30)	l9	1268-3	0.118	0.099	0.095	0.092	0.093	0.082	0.097	12.53
31)	l9	1268-4	0.051	0.043	0.042	0.041	0.045	0.040	0.044	8.97
32)	l9	1268-5	0.303	0.272	0.258	0.248	0.240	0.199	0.253	13.63
33)	i	1248_1br2nb	----------ISTD----------							

Response Factor Report Pest 7

Method Path : I:\Pest7\180410ICAL\
Method File : P7_pcb_04_10_18_ugL_ICAL.m
Title : pcb
Last Update : Fri Jul 06 03:28:46 2018
Response Via : Initial Calibration

Calibration Files
1 =P7180410i-27.d 2 =P7180410i-28.d 3 =P7180410i-29.d 4 =P7180410i-30.d 5 =P7180410i-31.d
6 =P7180410i-32.d

	Compound	1	2	3	4	5	6	Avg	%RSD
34) l7	1248-1	0.045	0.037	0.033	0.030	0.030	0.027	0.034	19.63
35) l7	1248-2	0.052	0.043	0.039	0.036	0.036	0.033	0.040	17.02
36) l7	1248-3	0.054	0.046	0.041	0.038	0.039	0.036	0.042	15.23
37) l7	1248-4	0.059	0.050	0.045	0.043	0.043	0.040	0.047	15.07
38) l7	1248-5	0.053	0.045	0.040	0.038	0.039	0.036	0.042	15.05
39) i	3262_1br2nb	----------ISTD----------							
40) l5	1232-1	0.035	0.028	0.025	0.024	0.022	0.020	0.026	20.48
41) l5	1232-2	0.035	0.029	0.026	0.025	0.022	0.021	0.027	19.18
42) l5	1232-3	0.033	0.028	0.026	0.026	0.024	0.024	0.027	13.29
43) l5	1232-4	0.019	0.016	0.014	0.013	0.012	0.012	0.014	17.33
44) l5	1232-5	0.017	0.014	0.013	0.012	0.012	0.011	0.013	16.83
45) l8	1262-1	0.062	0.049	0.046	0.042	0.043	0.041	0.047	16.53
46) l8	1262-2	0.087	0.068	0.063	0.059	0.059	0.056	0.065	17.79
47) l8	1262-3	0.077	0.062	0.058	0.052	0.054	0.052	0.059	15.94
48) l8	1262-4	0.131	0.110	0.104	0.097	0.099	0.093	0.106	12.74
49) l8	1262-5	0.099	0.079	0.075	0.069	0.071	0.069	0.077	14.63

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 4:17 pm
Operator : pest7:kb
Sample : il14268,42e,,8203
Misc : WG1132938,
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 11:22:53 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 11:21:41 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
13) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
22) i	4268_1br2nb	2.102	2.230	384.0E6	297.6E6	250.000	250.000
33) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
39) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-T...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	500.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
3) s	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	500.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
4) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-2			0	0	N.D.	N.D.
	Average 1016-2					0.000	0.000
8) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
9) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
14) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1221-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 4:17 pm
Operator : pest7:kb
Sample : il14268,42e,,8203
Misc : WG1132938,
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 11:22:53 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 11:21:41 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound		RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1221-1					0.000	0.000
17) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
18) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
23) l6	1242-1	3.069	3.560	8752541	6935884	143.111M4	142.553
24) l6	1242-2	3.418	3.953	8206019	6919696	120.603M4	131.060
25) l6	1242-3	3.521	4.066	6413757	4764964	129.561M4	134.273
26) l6	1242-4	3.847	4.451	7446374	4058379	129.623	135.113
27) l6	1242-5	4.185	4.748	4855868	3798513	125.206M4	135.719
Sum	1242-1			35674558	26477436	648.103	678.719
Average	1242-1					129.621	135.744
28) l9	1268-1	5.900	6.479	28173595	20226735	128.935	130.803
29) l9	1268-2	5.927	6.510	29277472	20190219	125.924	126.179
30) l9	1268-3	6.057	6.681	20175449	14086126	126.080	128.393
31) l9	1268-4	6.289	6.858	8984401	6072795	123.102	120.762
32) l9	1268-5	6.476	7.075	50981168	36118528	123.638	124.684
Sum	1268-1			137.6E6	96694402	NoCal	NoCal
Average	1268-1					125.536	126.164
34) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 4:17 pm
Operator : pest7:kb
Sample : il14268,42e,,8203
Misc : WG1132938,
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 11:22:53 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 11:21:41 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
40) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
41) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
45) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
46) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

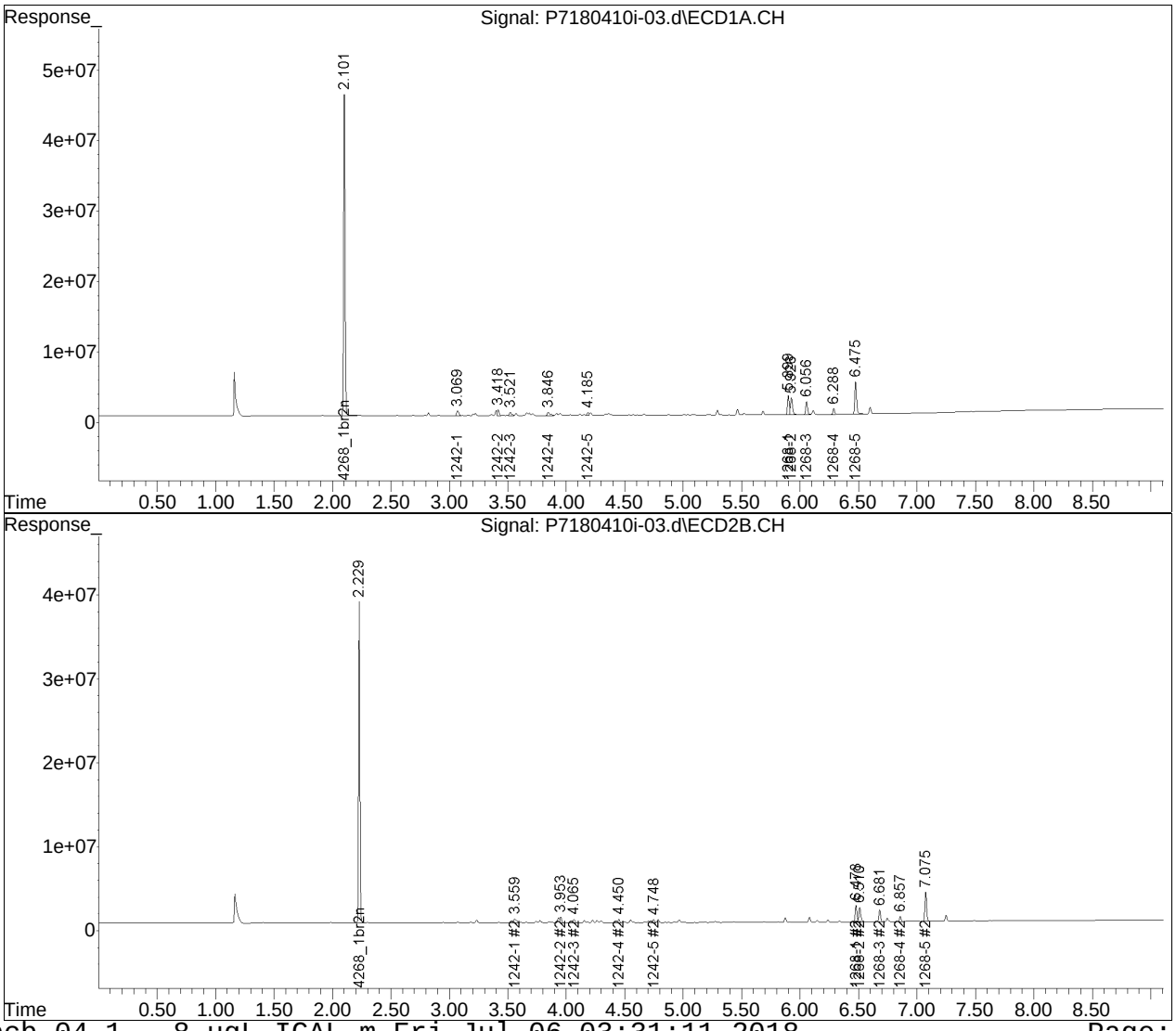
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 4:17 pm
Operator : pest7:kb
Sample : il14268,42e,,8203
Misc : WG1132938,
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 11:22:53 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 11:21:41 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

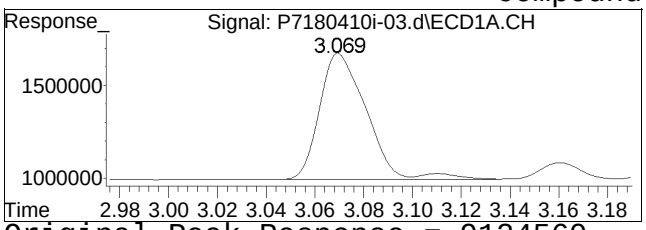


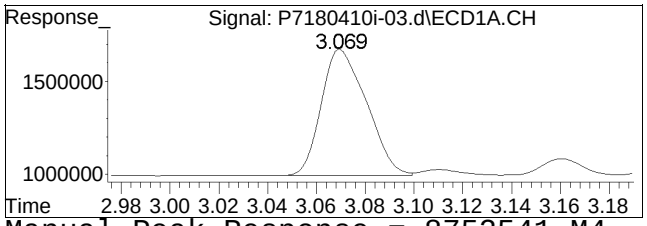
Manual Integration/Negative Proof Report

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-03.d
Date Inj'd : 4/10/2018 4:17 pm
Sample : il14268,42e,,8203

QMethod : P7_pcb_04_10_18_ugL_IC
Operator : pest7:kb
Instrument : Pest 7
Quant Date : 5/18/2018 11:21 am

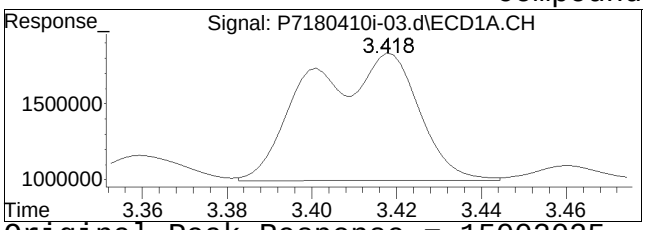
Compound #23: 1242-1

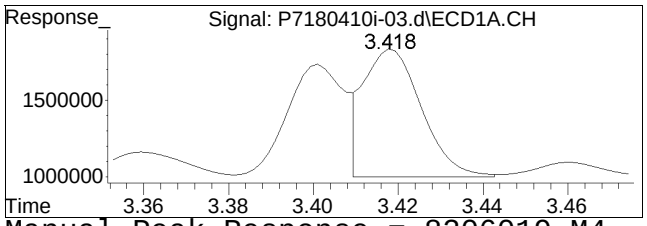




Original Peak Response = 9124560 Manual Peak Response = 8752541 M4
M4 = Poor automated baseline construction.

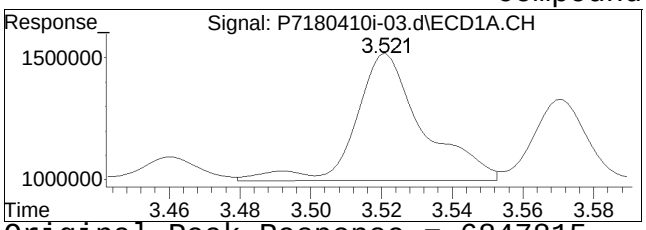
Compound #24: 1242-2

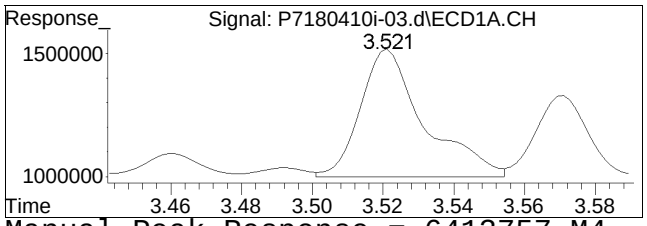




Original Peak Response = 15002025 Manual Peak Response = 8206019 M4
M4 = Poor automated baseline construction.

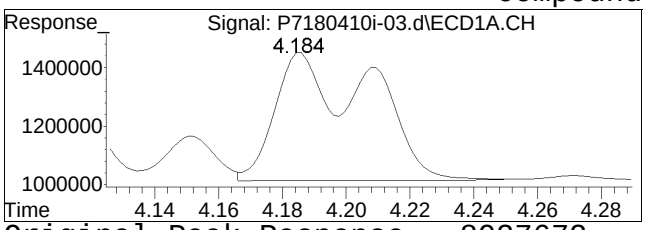
Compound #25: 1242-3

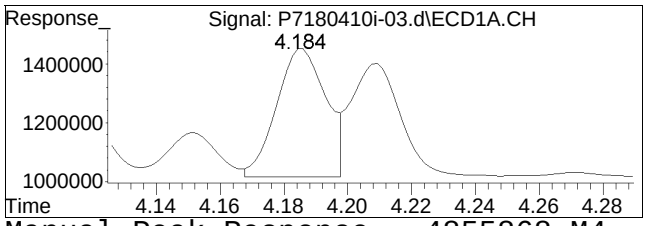




Original Peak Response = 6847815 Manual Peak Response = 6413757 M4
M4 = Poor automated baseline construction.

Compound #27: 1242-5





Original Peak Response = 8927672 Manual Peak Response = 4855868 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 4:29 pm
Operator : pest7:kb
Sample : il24268,42e,,8202
Misc : WG1132938,
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 11:21:33 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 11:19:48 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
13) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
22) i	4268_1br2nb	2.102	2.230	384.0E6	300.8E6	250.000	250.000
33) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
39) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-T...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
3) s	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
4) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-2			0	0	N.D.	N.D.
	Average 1016-2					0.000	0.000
8) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
9) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
14) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1221-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 4:29 pm
Operator : pest7:kb
Sample : il24268,42e,,8202
Misc : WG1132938,
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 11:21:33 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 11:19:48 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound		RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1221-1					0.000	0.000
17) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
18) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
23) l6	1242-1	3.070	3.560	35715939	28969746	609.502	616.625
24) l6	1242-2	3.418	3.954	36599191	29141183	548.212	559.014
25) l6	1242-3	3.521	4.067	27490003	20552259	571.031	594.767
26) l6	1242-4	3.846	4.452	31930312	17560522	571.713M4	602.092
27) l6	1242-5	4.186	4.749	20628160	16088379	540.434	589.029
Sum	1242-1			152.4E6	112.3E6	2840.891	2961.527
Average	1242-1					568.178	592.305
28) l9	1268-1	5.900	6.480	127.5E6	85243379	608.589	558.129
29) l9	1268-2	5.927	6.511	135.1E6	85440480	605.316	535.926
30) l9	1268-3	6.057	6.682	89019536	59343654	572.337	544.801
31) l9	1268-4	6.289	6.857	38631990	25917625	537.135	512.514M4
32) l9	1268-5	6.476	7.074	233.2E6	163.4E6	584.775	574.935M4
Sum	1268-1			623.4E6	419.4E6	NoCal	NoCal
Average	1268-1					581.630	545.261
34) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 4:29 pm
Operator : pest7:kb
Sample : il24268,42e,,8202
Misc : WG1132938,
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 11:21:33 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 11:19:48 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
40) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
41) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
45) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
46) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

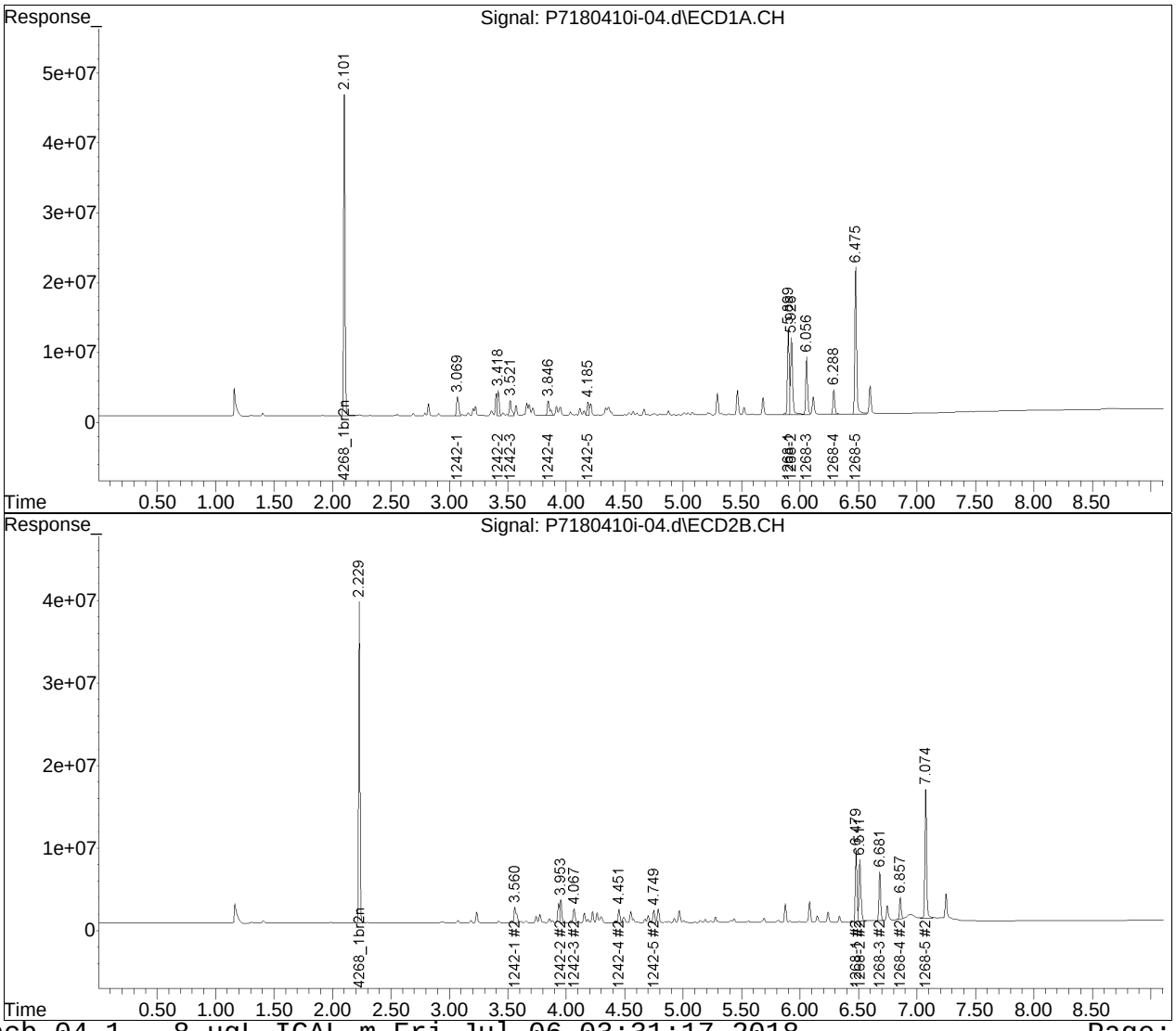
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 4:29 pm
Operator : pest7:kb
Sample : il24268,42e,,8202
Misc : WG1132938,
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 11:21:33 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 11:19:48 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

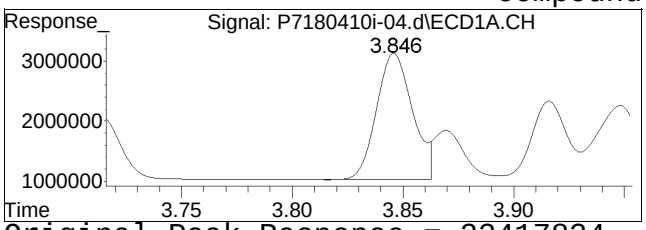


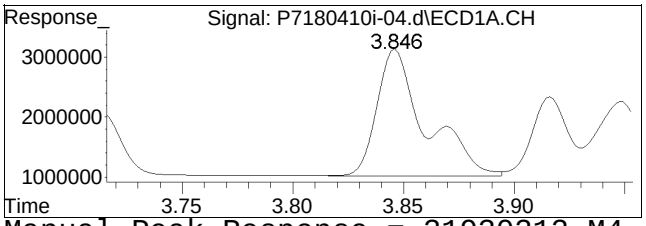
Manual Integration/Negative Proof Report

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-04.d
Date Inj'd : 4/10/2018 4:29 pm
Sample : il24268,42e,,8202

QMethod : P7_pcb_04_10_18_ugL_IC
Operator : pest7:kb
Instrument : Pest 7
Quant Date : 5/18/2018 11:19 am

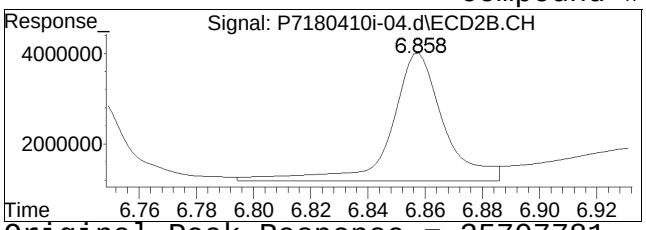
Compound #26: 1242-4

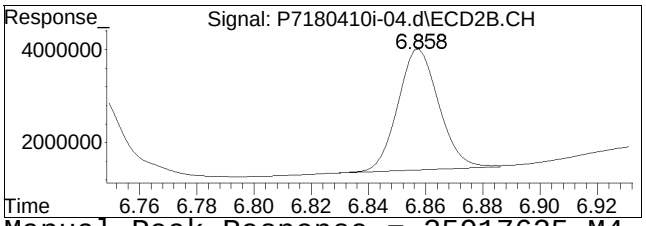




Original Peak Response = 23417834 Manual Peak Response = 31930312 M4
M4 = Poor automated baseline construction.

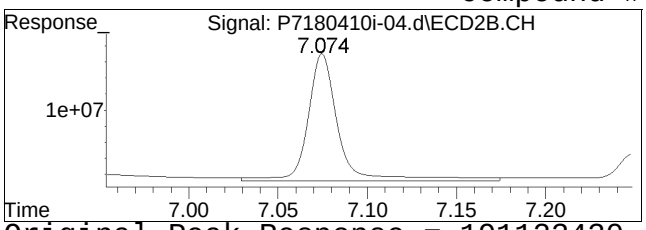
Compound #81: 1268-4 #2

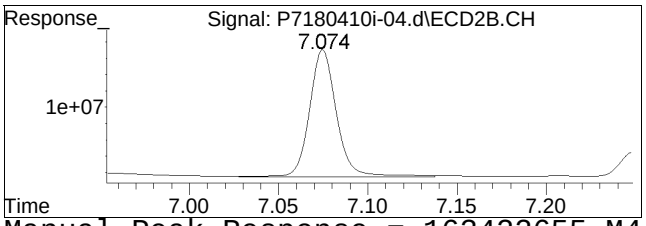




Original Peak Response = 35707781 Manual Peak Response = 25917625 M4
M4 = Poor automated baseline construction.

Compound #82: 1268-5 #2





Original Peak Response = 191123430 Manual Peak Response = 163422655 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 4:42 pm
Operator : pest7:kb
Sample : il34268,42e,,8201
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 11:18:14 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 11:17:28 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
13) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
22) i	4268_1br2nb	2.103	2.231	388.9E6	306.4E6	250.000	250.000
33) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
39) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-T...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	500.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
3) s	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	500.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
4) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-2			0	0	N.D.	N.D.
	Average 1016-2					0.000	0.000
8) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
9) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
14) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1221-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 4:42 pm
Operator : pest7:kb
Sample : il34268,42e,,8201
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 11:18:14 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 11:17:28 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1221-1					0.000	0.000
17) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
18) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
23) l6	1242-1	3.071	3.562	66396742	53431193	1165.030	1161.471
24) l6	1242-2	3.418	3.955	71321819	55714022	1074.589	1066.600
25) l6	1242-3	3.522	4.069	52225488	38246615	1097.298	1118.761
26) l6	1242-4	3.847	4.453	59921765	32435910	1080.863	1126.115
27) l6	1242-5	4.186	4.750	39628686	30025665	1033.893	1108.342
Sum	1242-1			289.5E6	209.9E6	5451.673	5581.288
Average	1242-1					1090.335	1116.258
28) l9	1268-1	5.900	6.480	250.3E6	166.5E6	1255.876	1096.138
29) l9	1268-2	5.927	6.512	267.8E6	167.9E6	1263.048	1045.835
30) l9	1268-3	6.057	6.683	175.7E6	116.3E6	1160.058	1064.790
31) l9	1268-4	6.290	6.859	77733837	52037087	1091.722	1013.541
32) l9	1268-5	6.476	7.077	459.2E6	315.6E6	1191.218	1123.726
Sum	1268-1			1230.8E6	818.4E6	NoCal	NoCal
Average	1268-1					1192.384	1068.806
34) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 4:42 pm
Operator : pest7:kb
Sample : il34268,42e,,8201
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 11:18:14 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 11:17:28 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
40) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
41) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
45) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
46) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

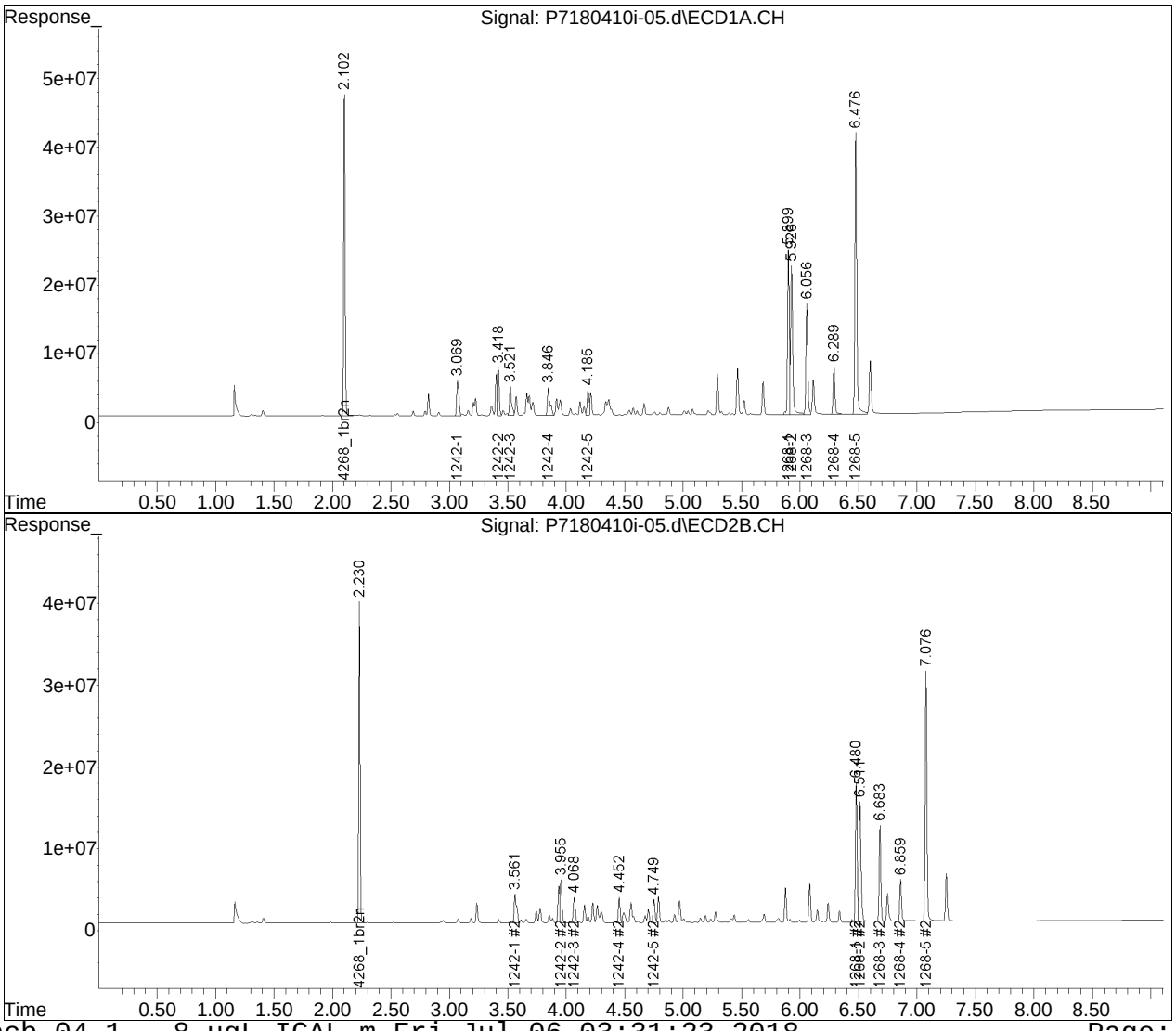
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-05.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 4:42 pm
Operator : pest7:kb
Sample : il34268,42e,,8201
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 11:18:14 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 11:17:28 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration/Negative Proof Report

Data Path	: I:\Pest7\180410ICAL\	QMethod	: P7_pcb_04_10_18_ugL_IC
Data File	: P7180410i-05.d	Operator	: pest7:kb
Date Inj'd	: 4/10/2018 4:42 pm	Instrument	: Pest 7
Sample	: il34268,42e,,8201	Quant Date	: 5/18/2018 11:17 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-06.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 4:55 pm
Operator : pest7:kb
Sample : il44268,42e,,8200
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 11:12:27 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 11:11:58 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
13) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
22) i	4268_1br2nb	2.102	2.231	400.0E6	314.1E6	250.000	250.000
33) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
39) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-T...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
3) s	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
4) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-2			0	0	N.D.	N.D.
	Average 1016-2					0.000	0.000
8) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
9) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
14) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1221-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-06.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 4:55 pm
Operator : pest7:kb
Sample : il44268,42e,,8200
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 11:12:27 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 11:11:58 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1221-1					0.000	0.000
17) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
18) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
23) l6	1242-1	3.069	3.561	155.4E6	125.5E6	2500.000M4	2500.000M4
24) l6	1242-2	3.418	3.954	183.8E6	141.9E6	2500.000M4	2500.000M4
25) l6	1242-3	3.521	4.068	134.0E6	92581954	2500.000M4	2500.000M4
26) l6	1242-4	3.847	4.453	147.7E6	76924856	2500.000	2500.000
27) l6	1242-5	4.186	4.750	99077604	71687997	2500.000	2500.000
Sum	1242-1			720.0E6	508.6E6	12500.000	12500.000
Average	1242-1					2500.000	2500.000
28) l9	1268-1	5.900	6.480	617.0E6	412.6E6	2500.000	2500.000
29) l9	1268-2	5.927	6.511	664.1E6	428.3E6	2500.000	2500.000
30) l9	1268-3	6.057	6.681	436.8E6	290.4E6	2500.000	2500.000
31) l9	1268-4	6.289	6.857	195.1E6	129.7E6	2500.000	2500.000
32) l9	1268-5	6.475	7.073	1111.6E6	778.8E6	2500.000	2500.000
Sum	1268-1			3024.5E6	2039.8E6	NoCal	NoCal
Average	1268-1					2500.000	2500.000
34) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-06.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 4:55 pm
Operator : pest7:kb
Sample : il44268,42e,,8200
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 11:12:27 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 11:11:58 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
38) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
40) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
41) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
45) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
46) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

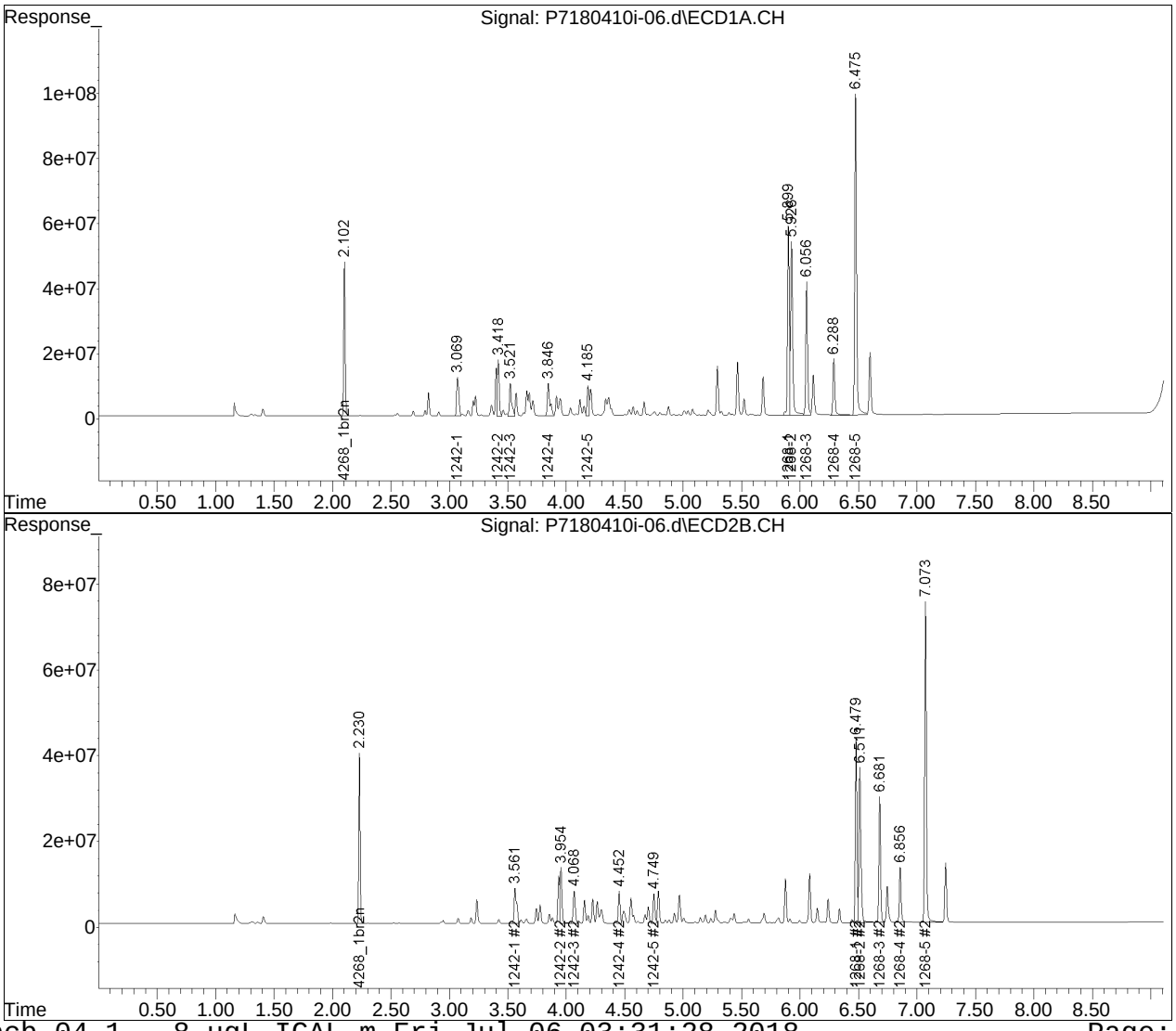
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-06.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 4:55 pm
Operator : pest7:kb
Sample : il44268,42e,,8200
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 11:12:27 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 11:11:58 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

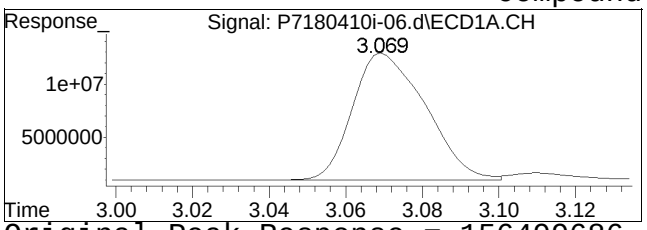


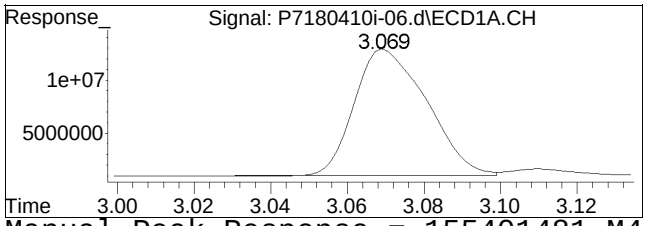
Manual Integration/Negative Proof Report

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-06.d
Date Inj'd : 4/10/2018 4:55 pm
Sample : il44268,42e,,8200

QMethod : P7_pcb_04_10_18_ugL_IC
Operator : pest7:kb
Instrument : Pest 7
Quant Date : 5/18/2018 11:12 am

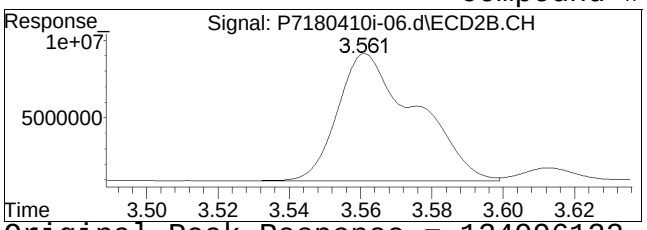
Compound #23: 1242-1

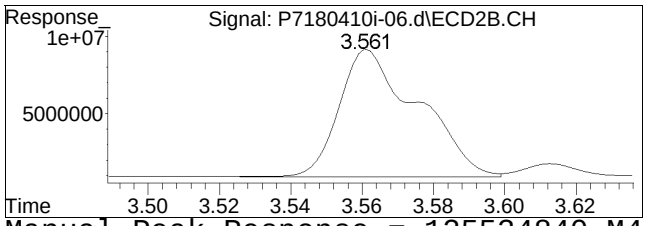




Original Peak Response = 156499686 Manual Peak Response = 155401481 M4
M4 = Poor automated baseline construction.

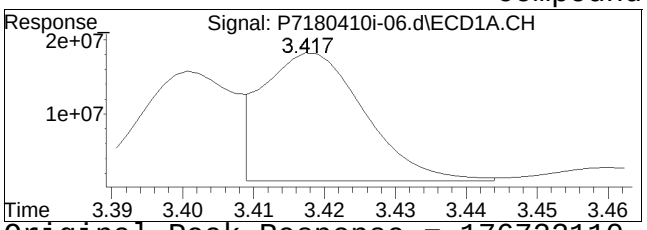
Compound #73: 1242-1 #2

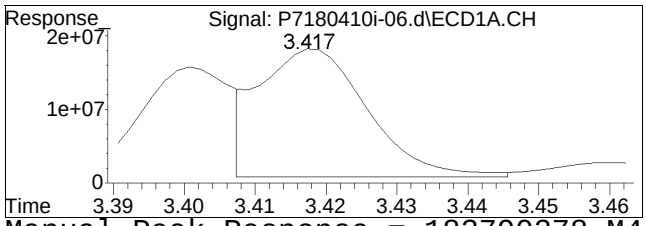




Original Peak Response = 124996122 Manual Peak Response = 125534840 M4
M4 = Poor automated baseline construction.

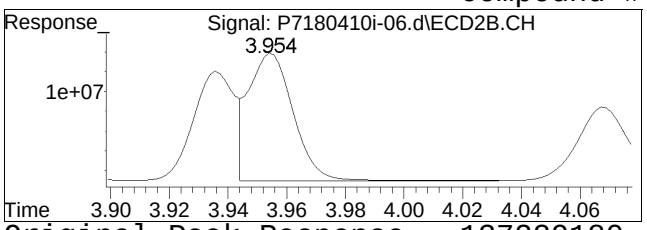
Compound #24: 1242-2

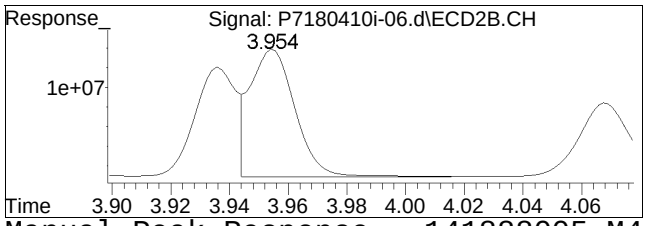




Original Peak Response = 176722110 Manual Peak Response = 183790278 M4
M4 = Poor automated baseline construction.

Compound #74: 1242-2 #2





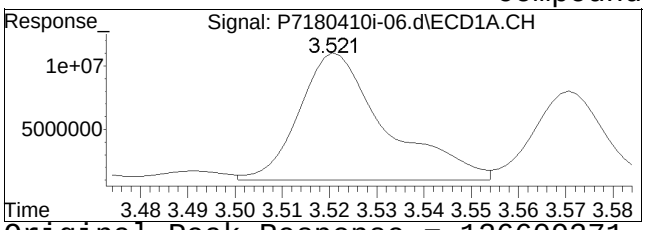
Original Peak Response = 137229180 Manual Peak Response = 141888005 M4
M4 = Poor automated baseline construction.

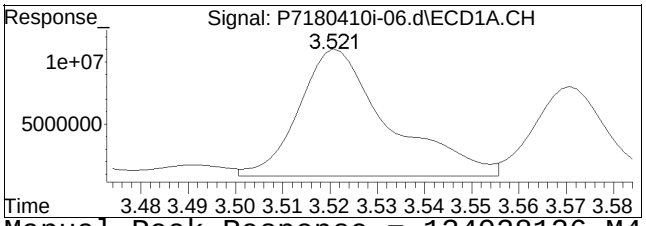
Manual Integration/Negative Proof Report

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-06.d
Date Inj'd : 4/10/2018 4:55 pm
Sample : il44268,42e,,8200

QMethod : P7_pcb_04_10_18_ugL_IC
Operator : pest7:kb
Instrument : Pest 7
Quant Date : 5/18/2018 11:12 am

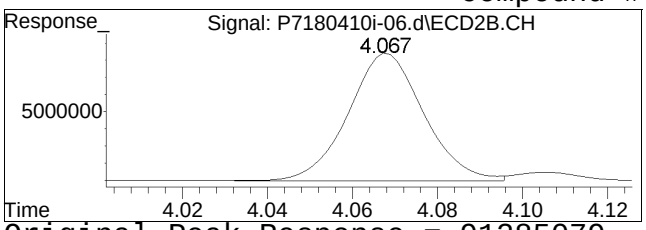
Compound #25: 1242-3

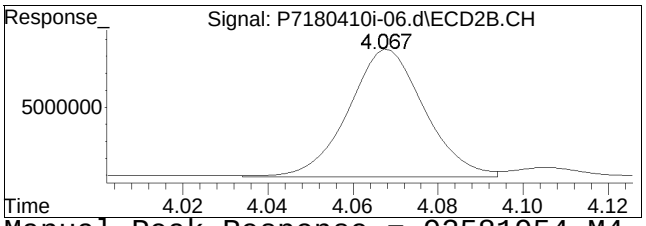




Original Peak Response = 126609371 Manual Peak Response = 134028126 M4
M4 = Poor automated baseline construction.

Compound #75: 1242-3 #2





Original Peak Response = 91285079 Manual Peak Response = 92581954 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-07.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 5:08 pm
Operator : pest7:kb
Sample : il54268,42e,,8199
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 11:15:57 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 11:12:44 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
13) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
22) i	4268_1br2nb	2.102	2.231	405.4E6	319.2E6	250.000	250.000
33) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
39) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-T...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	500.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
3) s	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	500.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
4) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-2			0	0	N.D.	N.D.
	Average 1016-2					0.000	0.000
8) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
9) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
14) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1221-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-07.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 5:08 pm
Operator : pest7:kb
Sample : il54268,42e,,8199
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 11:15:57 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 11:12:44 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound		RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l	
Average	1221-1					0.000	0.000	
17) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d	
18) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d	
19) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d	
20) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d	
21) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d	
Sum	1254-1			0	0	N.D.	N.D.	
Average	1254-1					0.000	0.000	
23) l6	1242-1	3.071	3.562	303.3E6	245.7E6	4813.551	4814.230	
24) l6	1242-2	3.419	3.955	355.6E6	278.2E6	4771.655	4823.133	
25) l6	1242-3	3.522	4.069	252.0E6	182.4E6	4637.846	4846.225	
26) l6	1242-4	3.846	4.453	303.3E6	154.4E6	5065.621M4	4938.054	
27) l6	1242-5	4.186	4.751	205.2E6	145.4E6	5106.729	4989.042	
Sum	1242-1			1419.4E6	1006.0E6	24395.401	24410.684	
Average	1242-1					4879.080	4882.137	
28) l9	1268-1	5.899	6.481	856.7E6	825.6E6	3424.371M4	4922.555	#
29) l9	1268-2	5.927	6.513	875.6E6	874.6E6	3251.489M4	5023.536	#
30) l9	1268-3	6.056	6.683	741.3E6	594.9E6	4185.832M4	5039.685	
31) l9	1268-4	6.289	6.859	347.5E6	284.4E6	4393.714M4	5394.097	
32) l9	1268-5	6.476	7.076	2051.0E6	1532.8E6	4550.522M4	4841.785	
Sum	1268-1			4872.1E6	4112.3E6	NoCal	NoCal	
Average	1268-1					3961.185	5044.332	
34) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d	
35) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d	
36) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d	
37) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d	
38) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d	
Sum	1248-1			0	0	N.D.	N.D.	
Average	1248-1					0.000	0.000	

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-07.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 5:08 pm
Operator : pest7:kb
Sample : il54268,42e,,8199
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 11:15:57 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 11:12:44 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
40) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
41) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
45) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
46) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

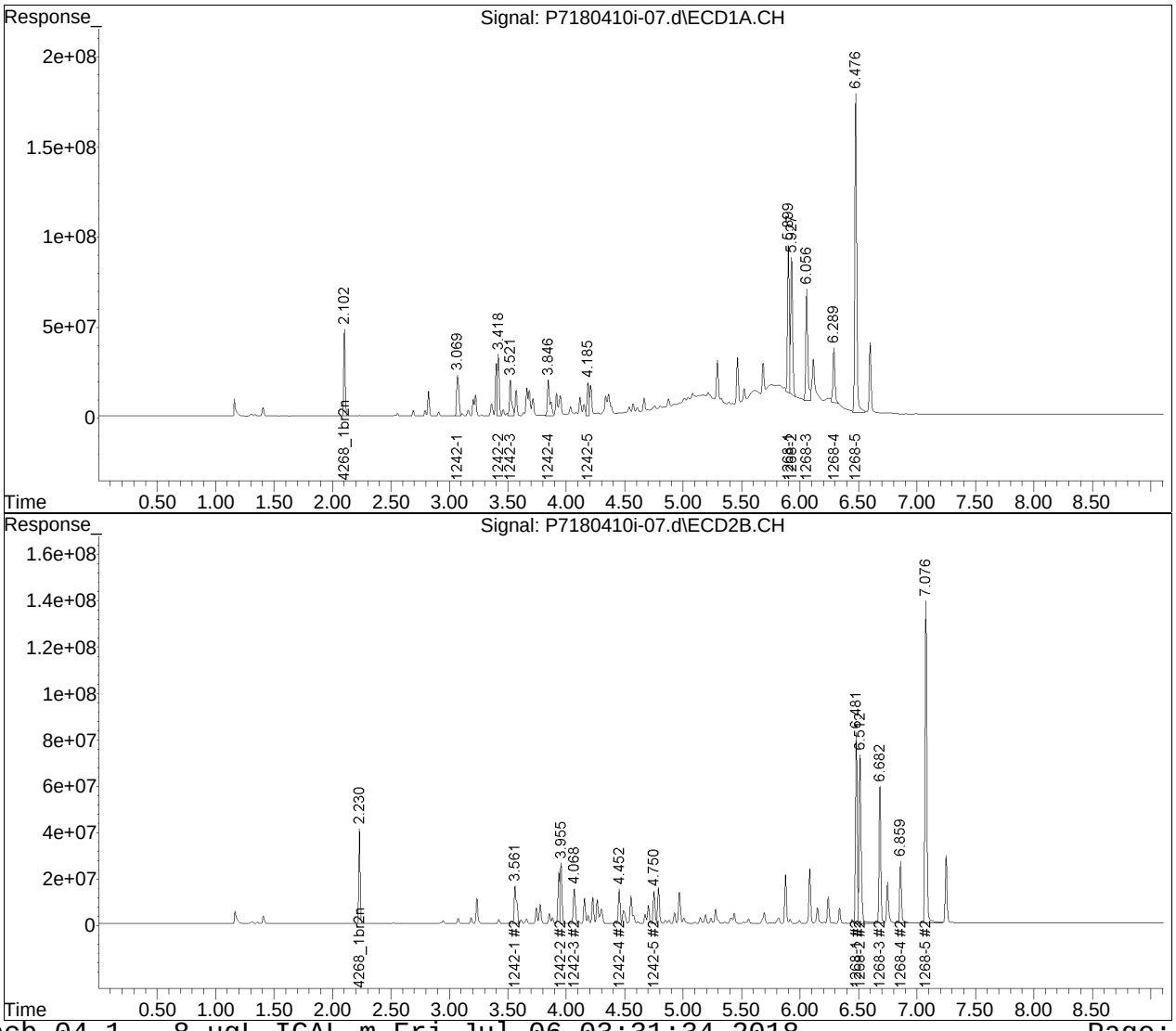
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-07.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 5:08 pm
Operator : pest7:kb
Sample : il54268,42e,,8199
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 11:15:57 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 11:12:44 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

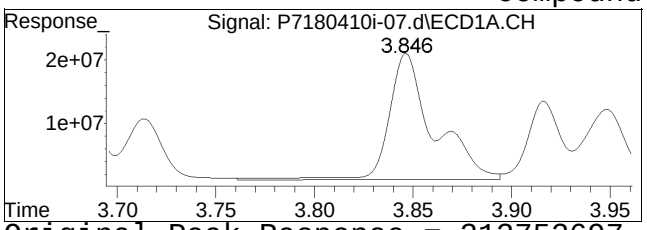


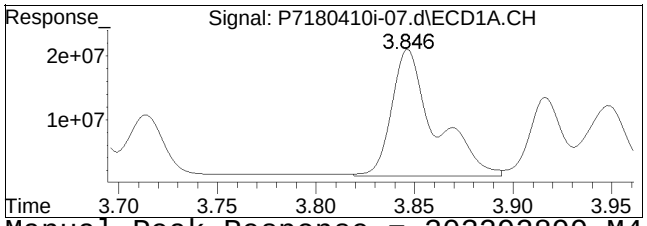
Manual Integration/Negative Proof Report

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-07.d
Date Inj'd : 4/10/2018 5:08 pm
Sample : il54268,42e,,8199

QMethod : P7_pcb_04_10_18_ugL_IC
Operator : pest7:kb
Instrument : Pest 7
Quant Date : 5/18/2018 11:14 am

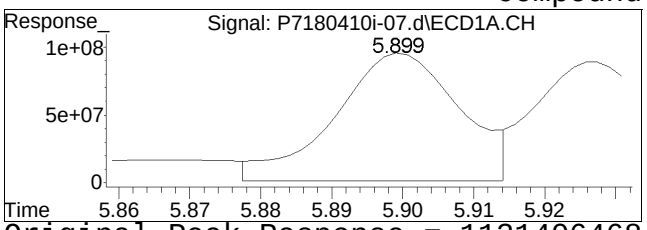
Compound #26: 1242-4

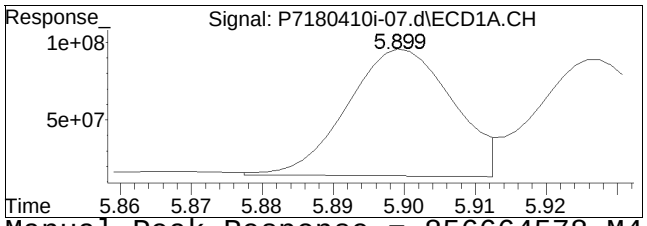




Original Peak Response = 313752697 Manual Peak Response = 303292899 M4
M4 = Poor automated baseline construction.

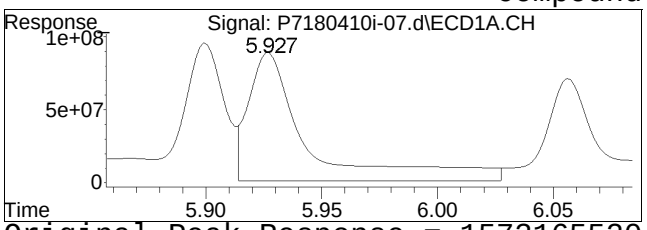
Compound #28: 1268-1

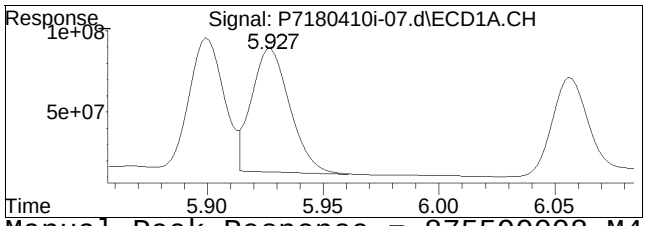




Original Peak Response = 1131406468 Manual Peak Response = 856664578 M4
M4 = Poor automated baseline construction.

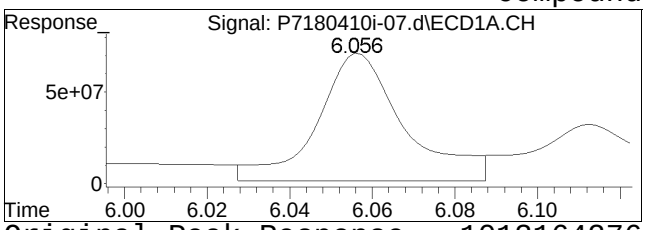
Compound #29: 1268-2

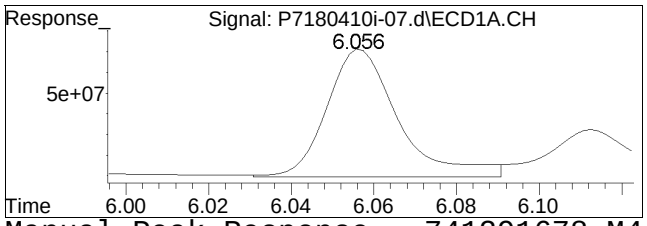




Original Peak Response = 1573165520 Manual Peak Response = 875590008 M4
M4 = Poor automated baseline construction.

Compound #30: 1268-3





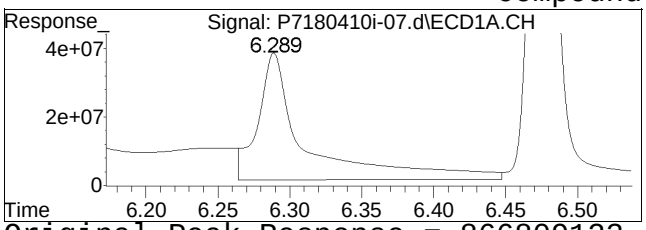
Original Peak Response = 1013164276 Manual Peak Response = 741291678 M4
M4 = Poor automated baseline construction.

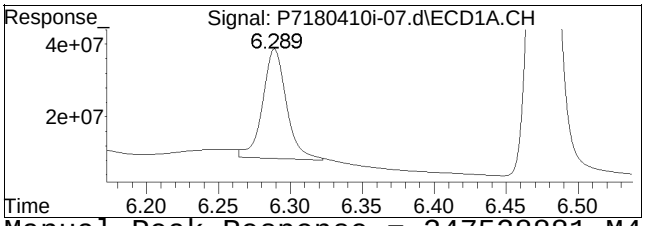
Manual Integration/Negative Proof Report

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-07.d
Date Inj'd : 4/10/2018 5:08 pm
Sample : il54268,42e,,8199

QMethod : P7_pcb_04_10_18_ugL_IC
Operator : pest7:kb
Instrument : Pest 7
Quant Date : 5/18/2018 11:14 am

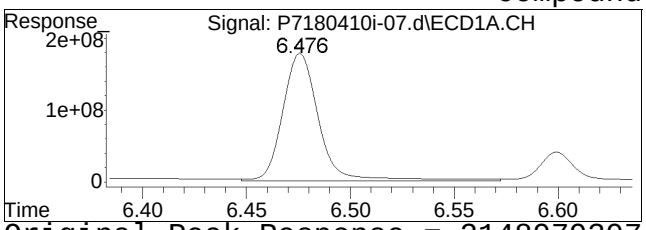
Compound #31: 1268-4

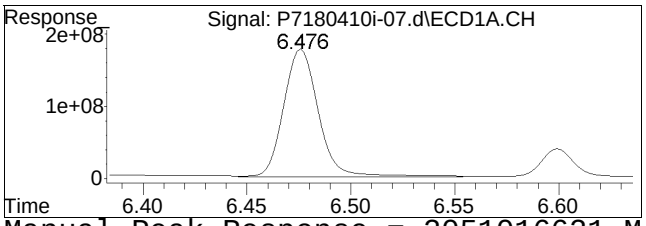




Original Peak Response = 866809123 Manual Peak Response = 347528881 M4
M4 = Poor automated baseline construction.

Compound #32: 1268-5





Original Peak Response = 2148979397 Manual Peak Response = 2051016621 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-08.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 5:21 pm
Operator : pest7:kb
Sample : il64268,42e,,8198
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 11:17:08 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 11:16:15 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
13) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
22) i	4268_1br2nb	2.103	2.231	410.0E6	316.1E6	250.000	250.000
33) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
39) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-T...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	500.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
3) s	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	500.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
4) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-2			0	0	N.D.	N.D.
	Average 1016-2					0.000	0.000
8) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
9) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
14) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1221-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-08.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 5:21 pm
Operator : pest7:kb
Sample : il64268,42e,,8198
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 11:17:08 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 11:16:15 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1221-1					0.000	0.000
17) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
18) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
23) l6	1242-1	3.072	3.562	551.9E6	431.9E6	8826.009	8710.068
24) l6	1242-2	3.419	3.956	626.4E6	494.5E6	8506.624M4	8816.122
25) l6	1242-3	3.523	4.069	446.0E6	324.2E6	8420.934	8835.534
26) l6	1242-4	3.848	4.453	534.6E6	276.0E6	8771.941	8969.674
27) l6	1242-5	4.186	4.751	391.1E6	261.9E6	9525.973M4	9088.201
Sum	1242-1			2550.2E6	1788.5E6	44051.480	44419.599
Average	1242-1					8810.296	8883.920
28) l9	1268-1	5.901	6.480	2042.6E6	1406.5E6	9584.101	8536.551
29) l9	1268-2	5.928	6.512	2211.8E6	1513.3E6	9842.989	8758.675
30) l9	1268-3	6.058	6.681	1500.1E6	1032.2E6	9118.856	8795.996
31) l9	1268-4	6.290	6.856	749.3E6	503.6E6	9972.764	9280.215
32) l9	1268-5	6.475	7.071	3486.7E6	2522.0E6	8009.680	8175.424
Sum	1268-1			9990.6E6	6977.6E6	NoCal	NoCal
Average	1268-1					9305.678	8709.372
34) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-08.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 5:21 pm
Operator : pest7:kb
Sample : il64268,42e,,8198
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 11:17:08 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 11:16:15 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
40) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
41) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
45) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
46) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

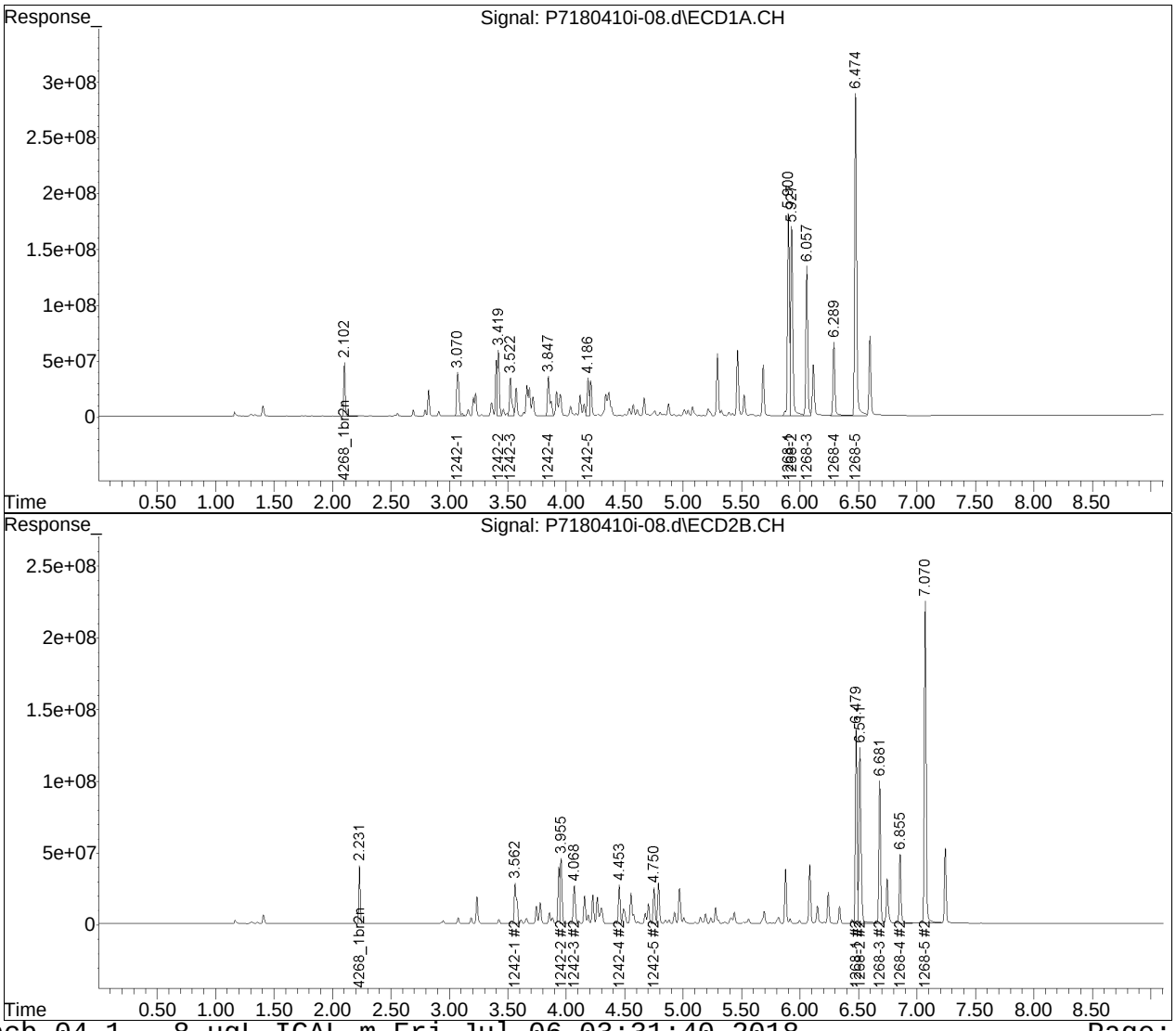
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-08.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 5:21 pm
Operator : pest7:kb
Sample : il64268,42e,,8198
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 11:17:08 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 11:16:15 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

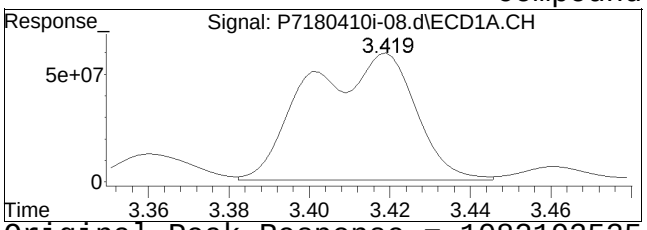


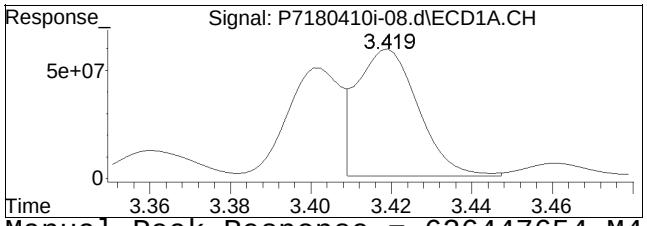
Manual Integration/Negative Proof Report

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-08.d
Date Inj'd : 4/10/2018 5:21 pm
Sample : il64268,42e,,8198

QMethod : P7_pcb_04_10_18_ugL_IC
Operator : pest7:kb
Instrument : Pest 7
Quant Date : 5/18/2018 11:16 am

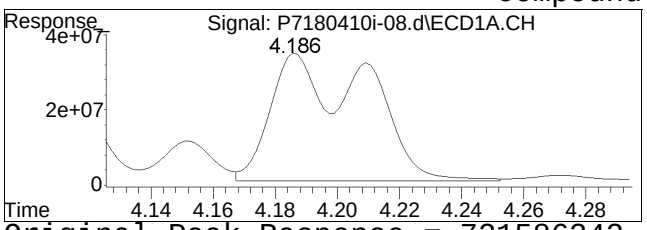
Compound #24: 1242-2

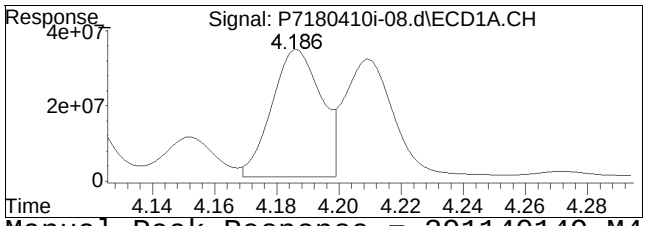




Original Peak Response = 1082193535 Manual Peak Response = 626447654 M4
M4 = Poor automated baseline construction.

Compound #27: 1242-5





Original Peak Response = 721586342 Manual Peak Response = 391140149 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-09.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 5:34 pm
Operator : pest7:kb
Sample : il13262,42e,,8210
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 30 10:11:44 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 30 10:11:30 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
13) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
22) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
39) i	3262_1br2nb	2.104	2.232	417.4E6	322.8E6	250.000	250.000
	System Monitoring Compounds						
2) s	2,4,5,6-T...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
3) s	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
4) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-2			0	0	N.D.	N.D.
	Average 1016-2					0.000	0.000
8) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
9) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
14) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1221-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-09.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 5:34 pm
Operator : pest7:kb
Sample : il13262,42e,,8210
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 30 10:11:44 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 30 10:11:30 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1221-1					0.000	0.000
17) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
18) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
23) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
24) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
28) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
29) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
34) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-09.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 5:34 pm
Operator : pest7:kb
Sample : il13262,42e,,8210
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 30 10:11:44 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 30 10:11:30 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
40) l5 1232-1	2.822	3.237	5264031	4464877	133.406M4	135.282
41) l5 1232-2	3.072	3.563	5280885	4541073	129.338	132.456
42) l5 1232-3	3.419	3.956	4891743	4323334	114.099M4	124.427
43) l5 1232-4	3.848	4.455	4390978	2427590	126.412	129.949
44) l5 1232-5	4.210	4.752	2543754	2236927	117.052M4	129.806
Sum 1232-1			22371391	17993801	620.307	651.920
Average 1232-1					124.061	130.384
45) l8 1262-1	5.008	5.561	12555218	7941813	123.354	130.943
46) l8 1262-2	5.294	5.877	15883078	11286177	122.314	134.018
47) l8 1262-3	5.471	6.082	13862302	9925323	121.137	129.966
48) l8 1262-4	5.685	6.242	26030669	16866074	116.935	123.578
49) l8 1262-5	6.290	6.482	8826539	12724699	123.653	128.101
Sum 1262-1			77157805	58744086	607.393	646.606
Average 1262-1					121.479	129.321
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			77157805	58744086	607.393	646.606
Average 1262-1					121.479	129.321

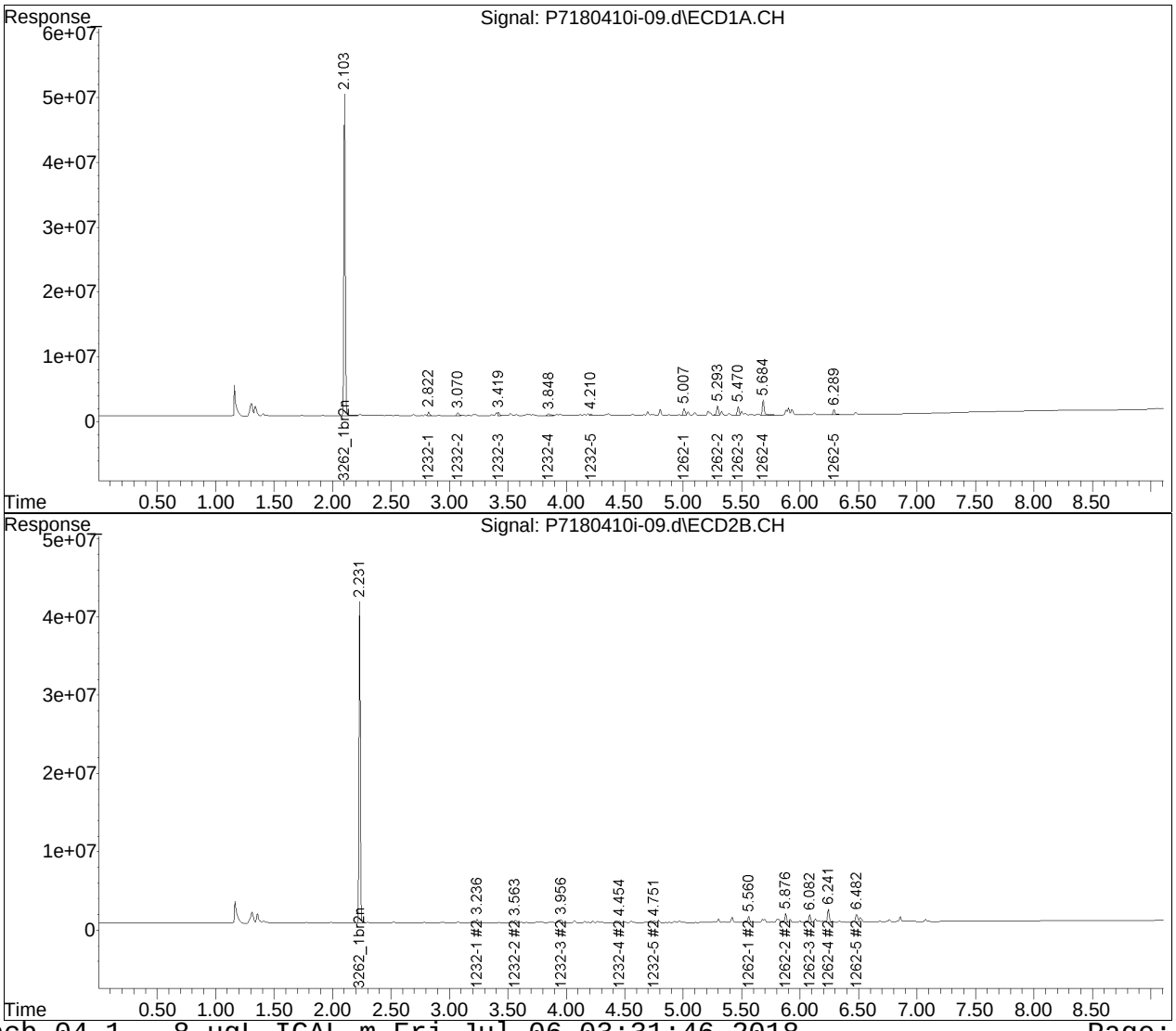
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-09.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 5:34 pm
Operator : pest7:kb
Sample : il13262,42e,,8210
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 30 10:11:44 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 30 10:11:30 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

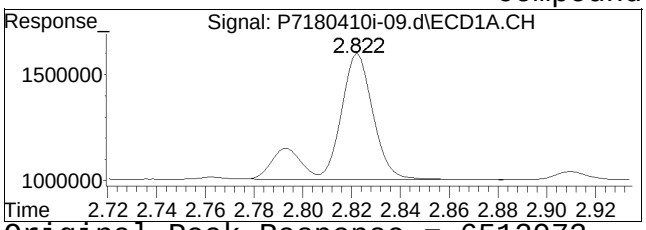


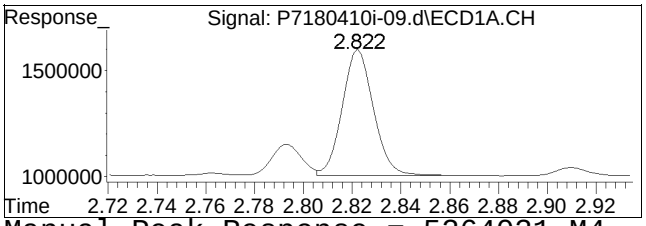
Manual Integration/Negative Proof Report

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-09.d
Date Inj'd : 4/10/2018 5:34 pm
Sample : il13262,42e,,8210

QMethod : P7_pcb_04_10_18_ugL_IC
Operator : pest7:kb
Instrument : Pest 7
Quant Date : 5/30/2018 10:11 am

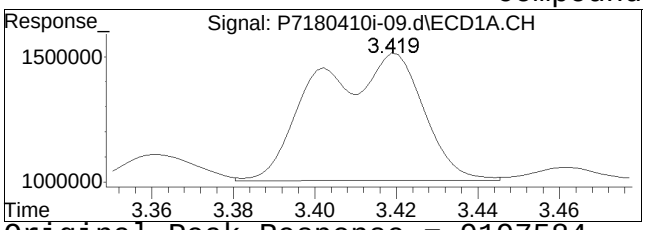
Compound #40: 1232-1

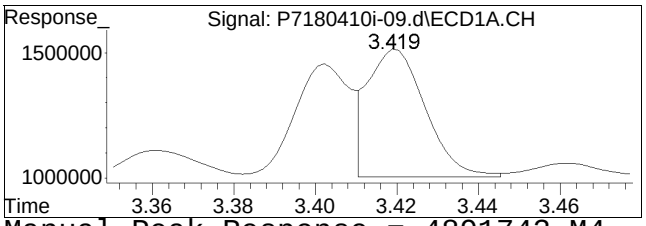




Original Peak Response = 6512973 Manual Peak Response = 5264031 M4
M4 = Poor automated baseline construction.

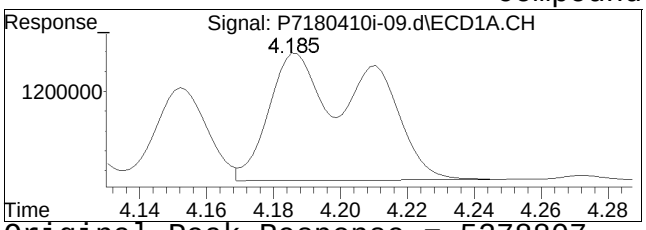
Compound #42: 1232-3

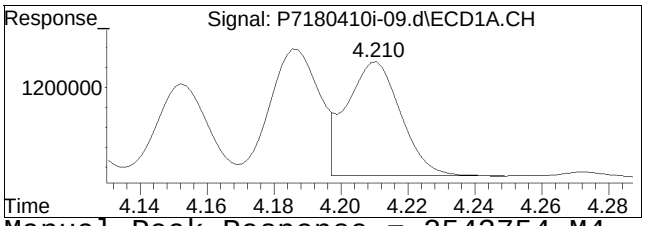




Original Peak Response = 9197584 Manual Peak Response = 4891743 M4
M4 = Poor automated baseline construction.

Compound #44: 1232-5





Original Peak Response = 5278807 Manual Peak Response = 2543754 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-10.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 5:47 pm
Operator : pest7:kb
Sample : il23262,42e,,8209
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 11:36:48 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 11:35:27 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
13) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
22) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
39) i	3262_1br2nb	2.103	2.232	425.9E6	330.4E6	250.000	250.000
	System Monitoring Compounds						
2) s	2,4,5,6-T...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	500.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
3) s	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	500.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
4) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-2			0	0	N.D.	N.D.
	Average 1016-2					0.000	0.000
8) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
9) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
14) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1221-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-10.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 5:47 pm
Operator : pest7:kb
Sample : il23262,42e,,8209
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 11:36:48 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 11:35:27 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1221-1					0.000	0.000
17) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
18) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
23) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
24) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
28) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
29) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
34) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-10.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 5:47 pm
Operator : pest7:kb
Sample : il23262,42e,,8209
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 11:36:48 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 11:35:27 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
40) l5 1232-1	2.822	3.237	22157258	18559486	617.548M4	619.255
41) l5 1232-2	3.072	3.563	22551593	19361569	597.584	617.808
42) l5 1232-3	3.419	3.957	22954707	18576197	551.074M4	562.935
43) l5 1232-4	3.848	4.454	18415576	10403202	562.326	602.385
44) l5 1232-5	4.209	4.752	11680810	9456110	558.141M4	590.725
Sum 1232-1			97759945	76356565	2886.675	2993.109
Average 1232-1					577.335	598.622
45) l8 1262-1	5.008	5.561	53525223	32610438	551.959	577.197
46) l8 1262-2	5.294	5.876	68935197	44639622	557.098	571.538
47) l8 1262-3	5.469	6.082	60027919	40818520	546.951M4	571.275
48) l8 1262-4	5.684	6.241	119.1E6	72433485	554.879	556.405
49) l8 1262-5	6.290	6.482	37047126	52260653	543.213	556.985
Sum 1262-1			338.7E6	242.8E6	2754.100	2833.399
Average 1262-1					550.820	566.680

SemiQuant Compounds - Not Calibrated on this Instrument

Sum 1262-1			338.7E6	242.8E6	2754.100	2833.399
Average 1262-1					550.820	566.680

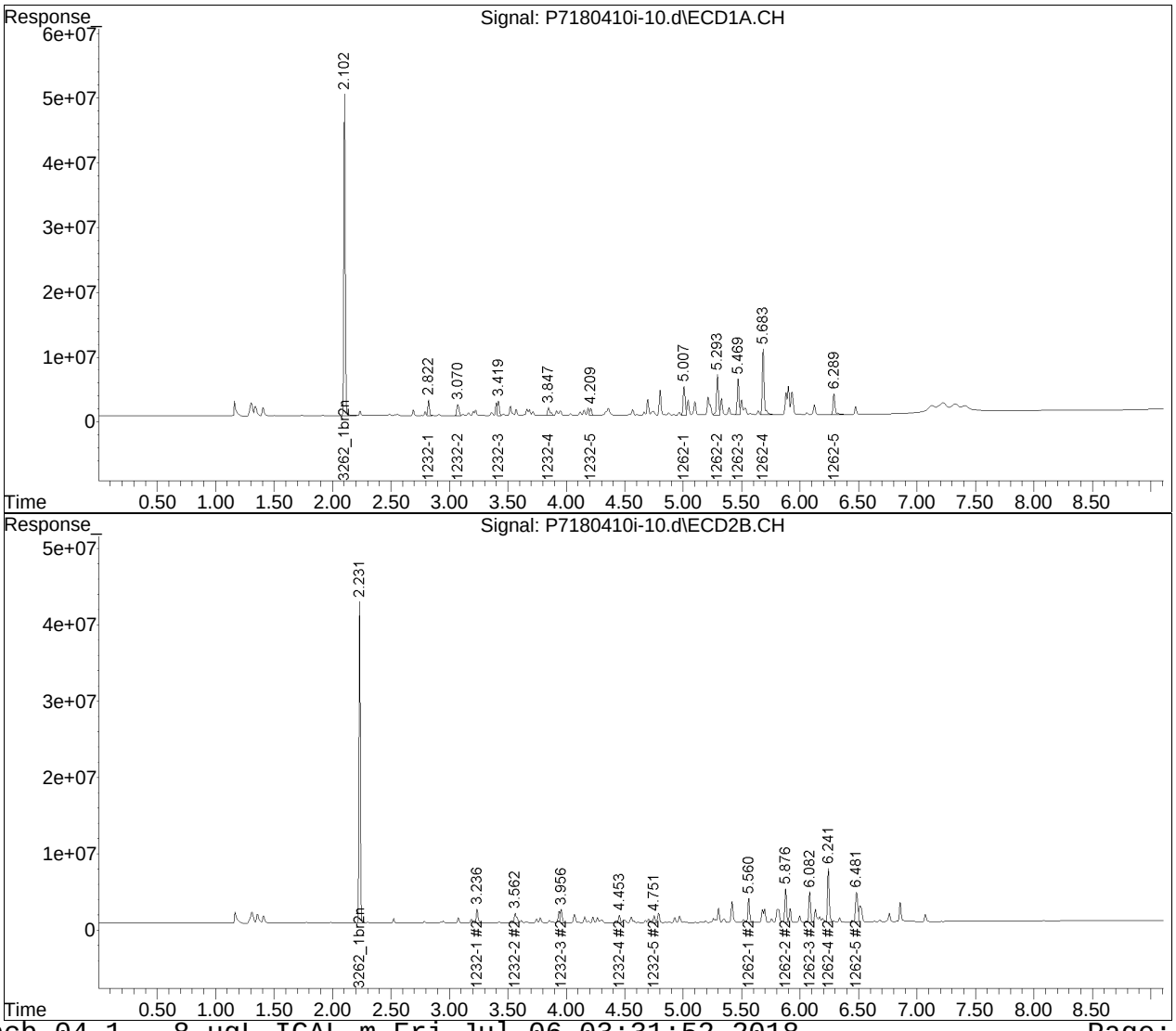
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-10.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 5:47 pm
Operator : pest7:kb
Sample : il23262,42e,,8209
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 11:36:48 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 11:35:27 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

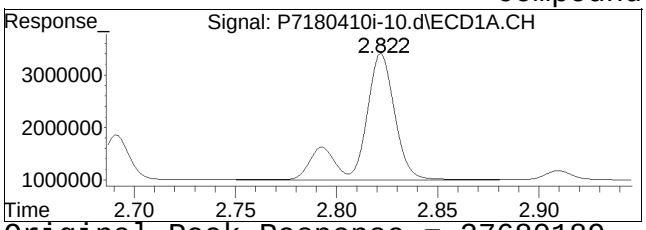


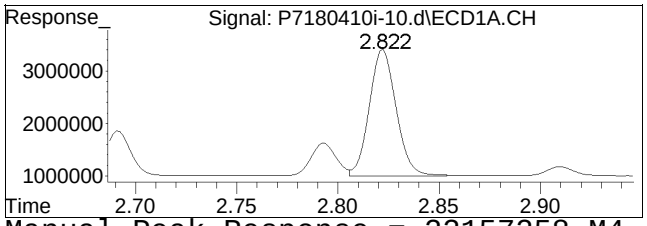
Manual Integration/Negative Proof Report

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-10.d
Date Inj'd : 4/10/2018 5:47 pm
Sample : il23262,42e,,8209

QMethod : P7_pcb_04_10_18_ugL_IC
Operator : pest7:kb
Instrument : Pest 7
Quant Date : 5/18/2018 11:35 am

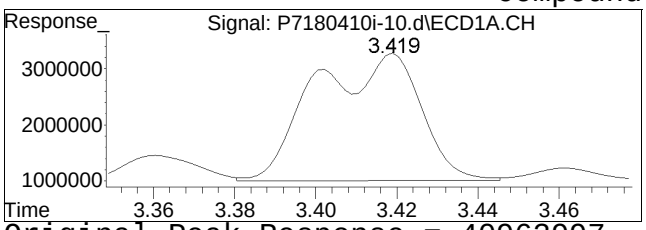
Compound #40: 1232-1

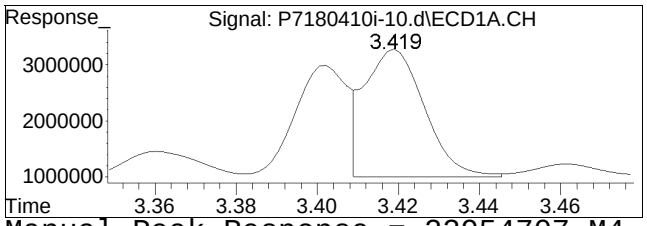




Original Peak Response = 27680189 Manual Peak Response = 22157258 M4
M4 = Poor automated baseline construction.

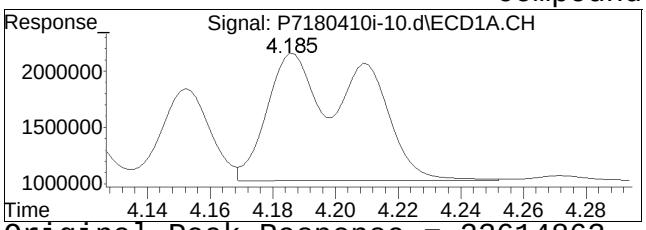
Compound #42: 1232-3

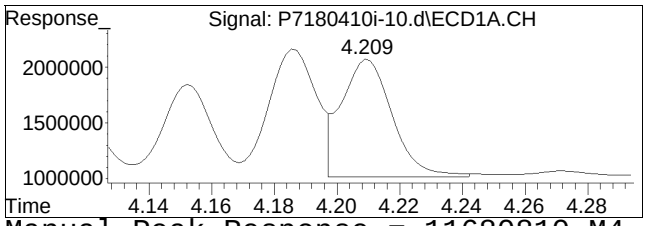




Original Peak Response = 40963997 Manual Peak Response = 22954707 M4
M4 = Poor automated baseline construction.

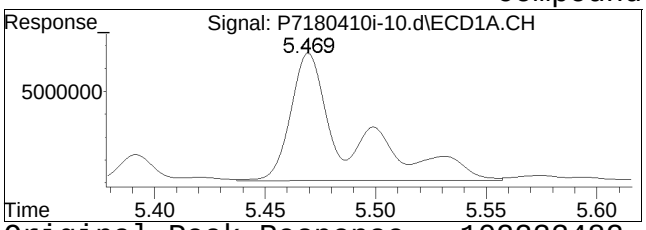
Compound #44: 1232-5

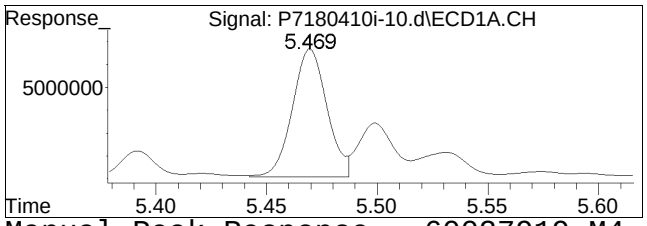




Original Peak Response = 23614863 Manual Peak Response = 11680810 M4
M4 = Poor automated baseline construction.

Compound #47: 1262-3





Original Peak Response = 102233482 Manual Peak Response = 60027919 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-11.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 5:59 pm
Operator : pest7:kb
Sample : il33262,42e,,8208
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 11:35:18 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 11:34:00 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
13) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
22) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
39) i	3262_1br2nb	2.103	2.232	420.2E6	324.3E6	250.000	250.000
	System Monitoring Compounds						
2) s	2,4,5,6-T...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
3) s	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
4) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-2			0	0	N.D.	N.D.
	Average 1016-2					0.000	0.000
8) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
9) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
14) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1221-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-11.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 5:59 pm
Operator : pest7:kb
Sample : il33262,42e,,8208
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 11:35:18 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 11:34:00 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1221-1					0.000	0.000
17) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
18) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
23) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
24) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
28) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
29) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
34) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-11.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 5:59 pm
Operator : pest7:kb
Sample : il33262,42e,,8208
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 11:35:18 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 11:34:00 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
40) l5 1232-1	2.822	3.237	39458356	32979215	1158.835M4	1168.382
41) l5 1232-2	3.072	3.563	40958606	34338523	1137.897	1161.494
42) l5 1232-3	3.419	3.957	43720248	34072270	1086.837M4	1070.622
43) l5 1232-4	3.848	4.455	33860524	18535735	1064.880	1128.788
44) l5 1232-5	4.210	4.751	21234841	17125922	1038.146M4	1123.831
Sum 1232-1			179.2E6	137.1E6	5486.595	5653.117
Average 1232-1					1097.319	1130.623
45) l8 1262-1	5.008	5.561	99669660	59266552	1056.335	1093.934
46) l8 1262-2	5.294	5.876	129.2E6	81757776	1078.597	1090.766
47) l8 1262-3	5.469	6.082	112.1E6	74723040	1047.628M4	1089.357
48) l8 1262-4	5.684	6.242	230.0E6	135.3E6	1117.873	1079.984
49) l8 1262-5	6.290	6.483	71400067	96692360	1083.072	1067.811
Sum 1262-1			642.4E6	447.7E6	5383.504	5421.852
Average 1262-1					1076.701	1084.370

SemiQuant Compounds - Not Calibrated on this Instrument

Sum 1262-1			642.4E6	447.7E6	5383.504	5421.852
Average 1262-1					1076.701	1084.370

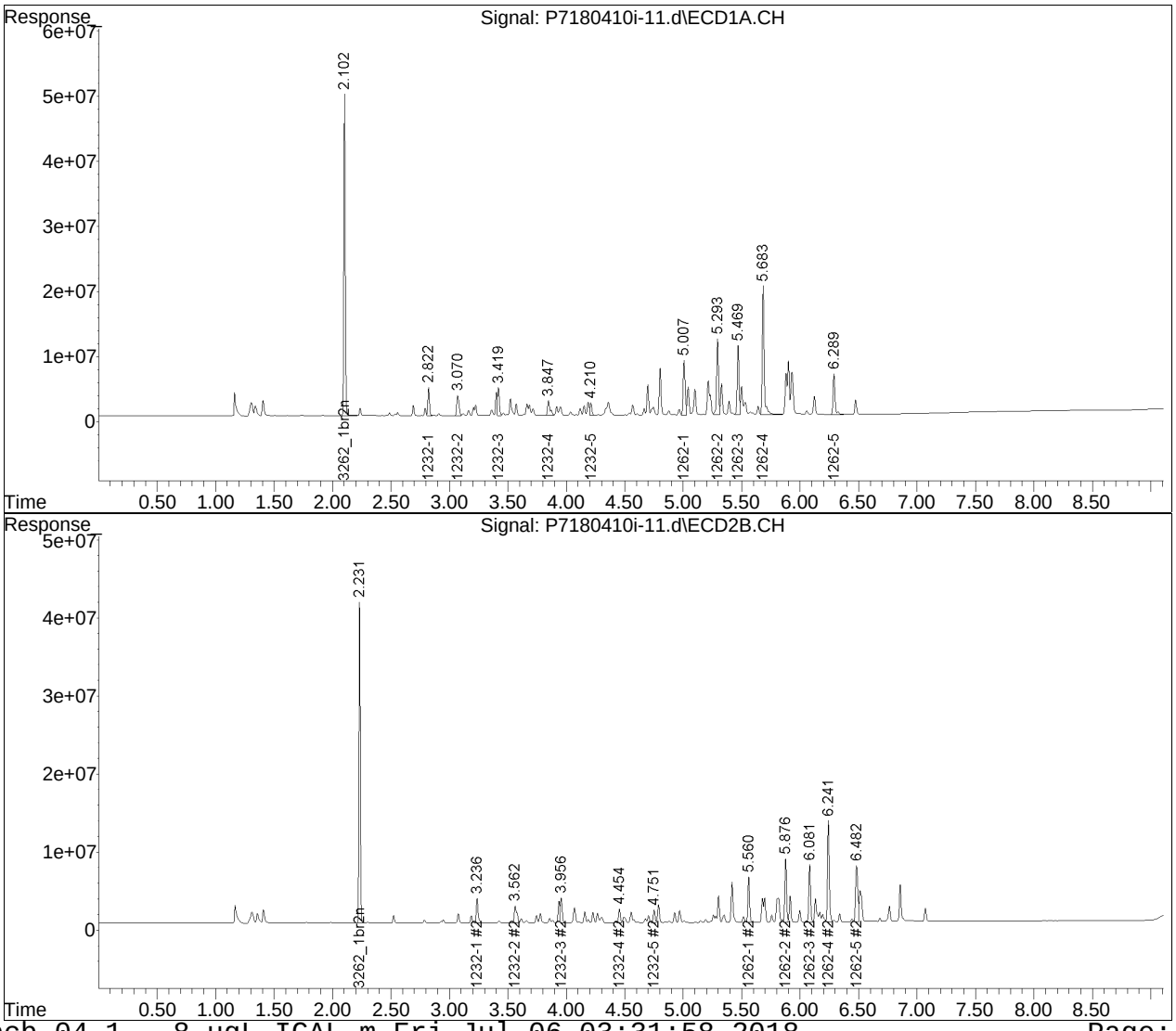
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-11.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 5:59 pm
Operator : pest7:kb
Sample : il33262,42e,,8208
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 11:35:18 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 11:34:00 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

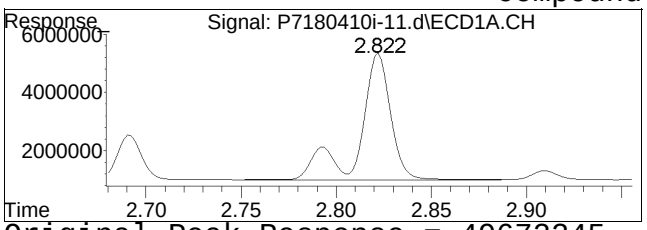


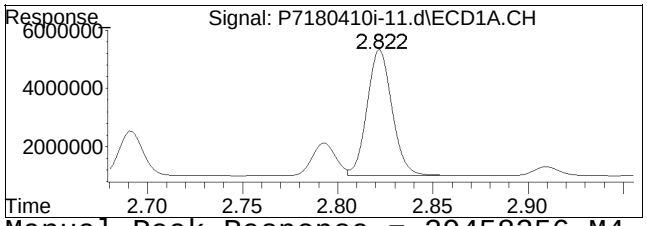
Manual Integration/Negative Proof Report

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-11.d
Date Inj'd : 4/10/2018 5:59 pm
Sample : il33262,42e,,8208

QMethod : P7_pcb_04_10_18_ugL_IC
Operator : pest7:kb
Instrument : Pest 7
Quant Date : 5/18/2018 11:34 am

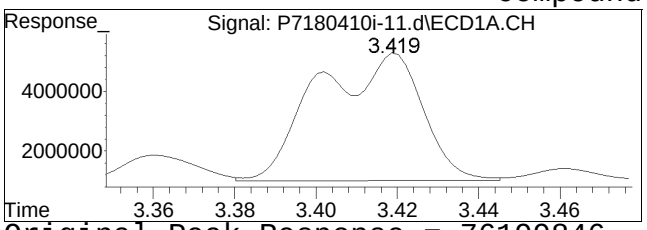
Compound #40: 1232-1

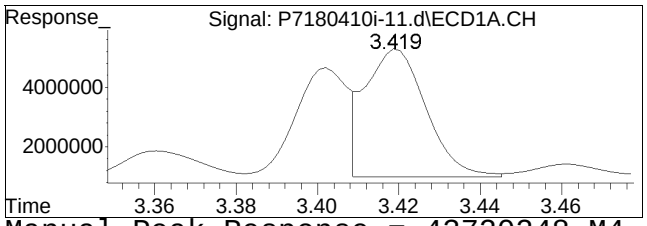




Original Peak Response = 49672245 Manual Peak Response = 39458356 M4
M4 = Poor automated baseline construction.

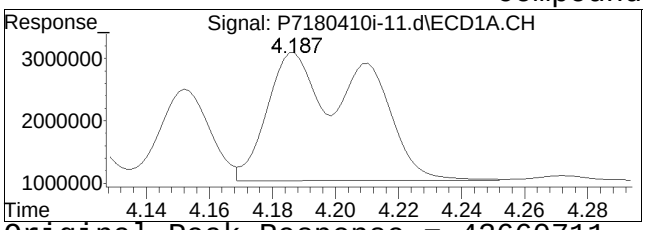
Compound #42: 1232-3

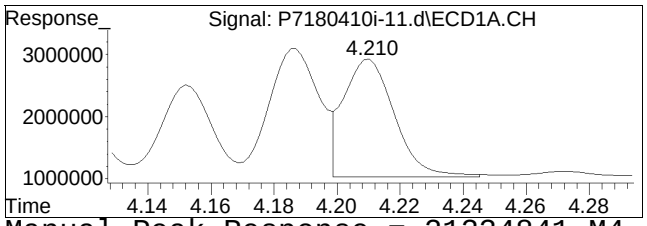




Original Peak Response = 76199846 Manual Peak Response = 43720248 M4
M4 = Poor automated baseline construction.

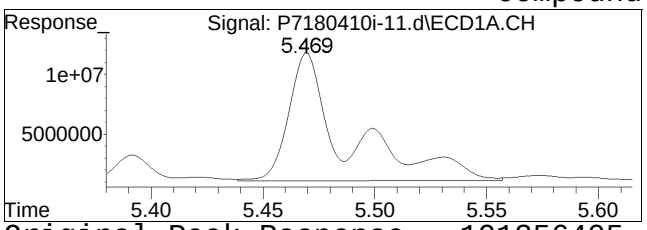
Compound #44: 1232-5

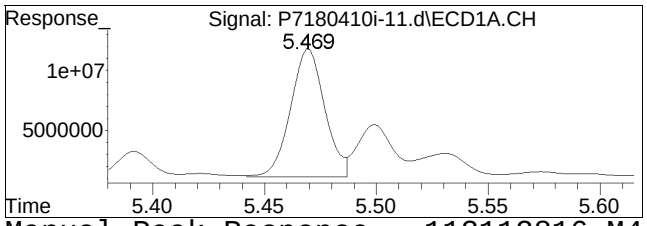




Original Peak Response = 43660711 Manual Peak Response = 21234841 M4
M4 = Poor automated baseline construction.

Compound #47: 1262-3





Original Peak Response = 191356405 Manual Peak Response = 112112816 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-12.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 6:12 pm
Operator : pest7:kb
Sample : il43262,42e,,8207
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 11:31:10 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 11:30:42 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
13) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
22) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
39) i	3262_1br2nb	2.103	2.232	420.1E6	324.1E6	250.000	250.000
	System Monitoring Compounds						
2) s	2,4,5,6-T...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
3) s	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
4) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-2			0	0	N.D.	N.D.
	Average 1016-2					0.000	0.000
8) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
9) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
14) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1221-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-12.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 6:12 pm
Operator : pest7:kb
Sample : il43262,42e,,8207
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 11:31:10 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 11:30:42 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1221-1					0.000	0.000
17) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
18) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
23) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
24) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
28) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
29) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
34) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-12.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 6:12 pm
Operator : pest7:kb
Sample : il43262,42e,,8207
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 11:31:10 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 11:30:42 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
40)	l5 1232-1	2.823	3.236	92392583	76400854	2500.000	2500.000
41)	l5 1232-2	3.071	3.563	96525068	79661788	2500.000	2500.000
42)	l5 1232-3	3.419	3.957	100.8E6	82894543	2500.000M4	2500.000
43)	l5 1232-4	3.847	4.454	85161003	43741707	2500.000M4	2500.000
44)	l5 1232-5	4.210	4.752	52152675	40289341	2500.000	2500.000
	Sum 1232-1			427.1E6	323.0E6	12500.000	12500.000
	Average 1232-1					2500.000	2500.000
45)	l8 1262-1	5.007	5.560	248.1E6	134.5E6	2500.000M2	2500.000M2
46)	l8 1262-2	5.292	5.876	309.3E6	190.1E6	2500.000M2	2500.000M2
47)	l8 1262-3	5.469	6.081	277.7E6	169.0E6	2500.000M2	2500.000M2
48)	l8 1262-4	5.683	6.241	510.0E6	314.9E6	2500.000M2	2500.000M2
49)	l8 1262-5	6.288	6.482	163.8E6	224.4E6	2500.000M2	2500.000M2
	Sum 1262-1			1508.9E6	1033.0E6	12500.000	12500.000
	Average 1262-1					2500.000	2500.000

SemiQuant Compounds - Not Calibrated on this Instrument

	Sum 1262-1			1508.9E6	1033.0E6	12500.000	12500.000
	Average 1262-1					2500.000	2500.000

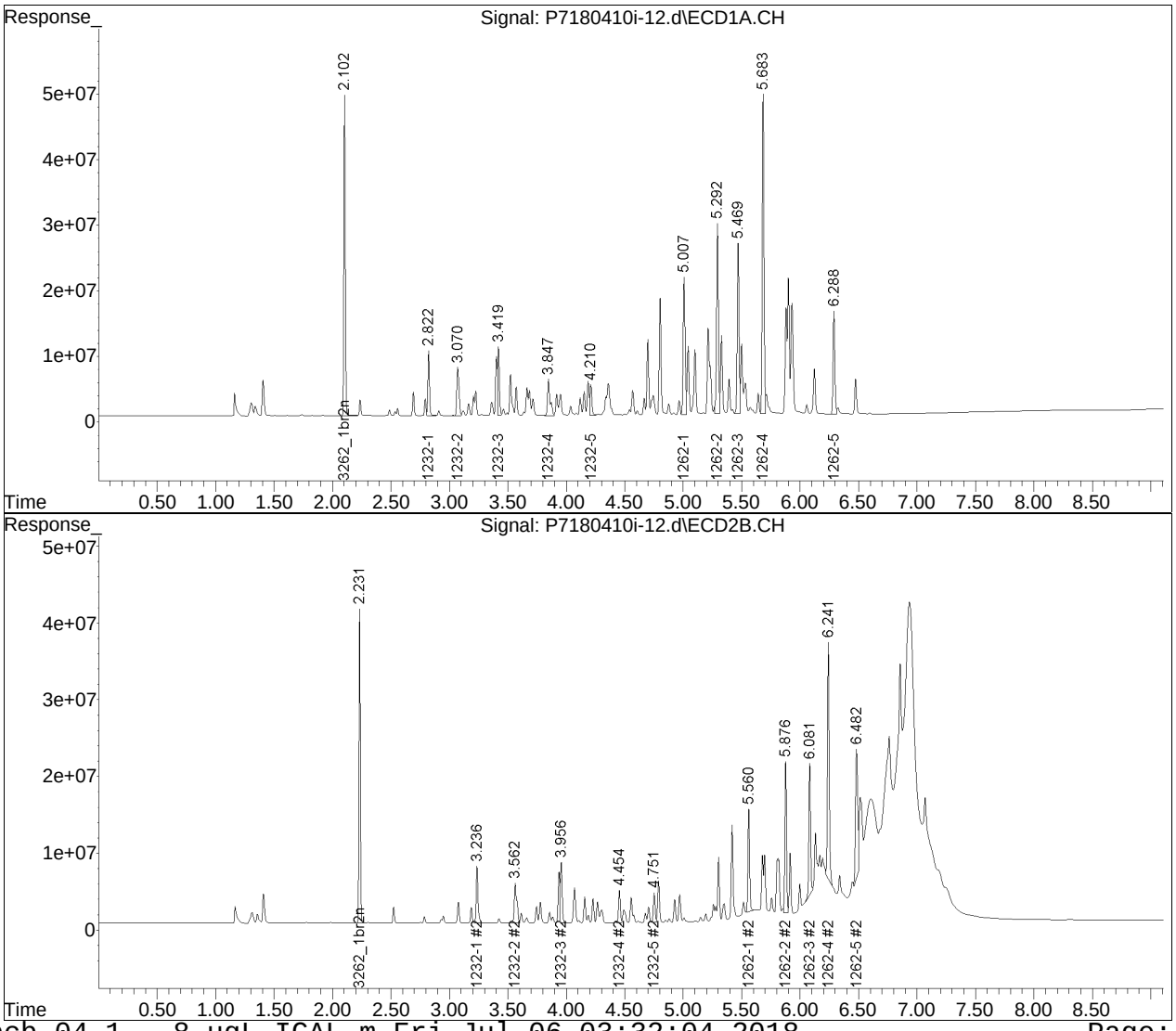
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-12.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 6:12 pm
Operator : pest7:kb
Sample : il43262,42e,,8207
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 11 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 11:31:10 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 11:30:42 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

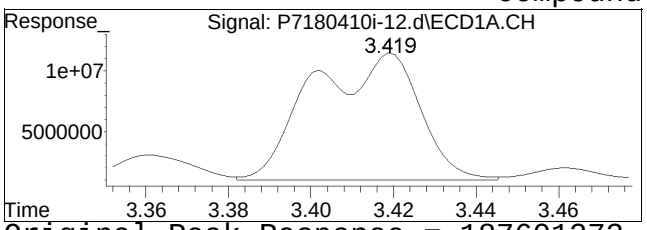


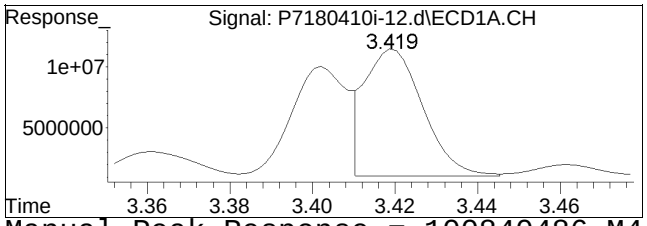
Manual Integration/Negative Proof Report

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-12.d
Date Inj'd : 4/10/2018 6:12 pm
Sample : il43262,42e,,8207

QMethod : P7_pcb_04_10_18_ugL_IC
Operator : pest7:kb
Instrument : Pest 7
Quant Date : 5/18/2018 11:30 am

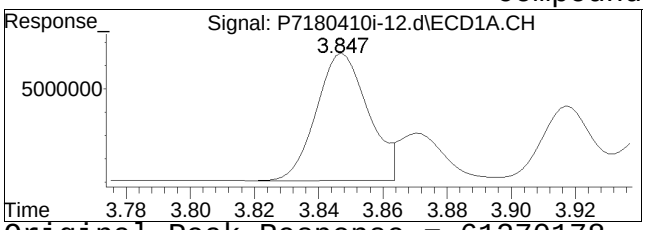
Compound #42: 1232-3

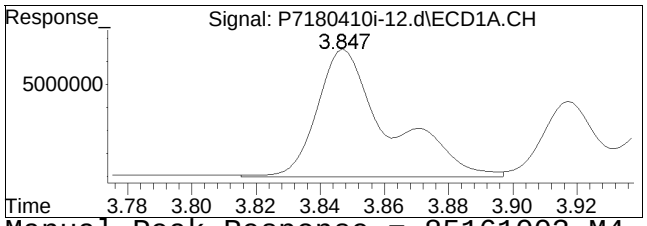




Original Peak Response = 187601273 Manual Peak Response = 100840486 M4
M4 = Poor automated baseline construction.

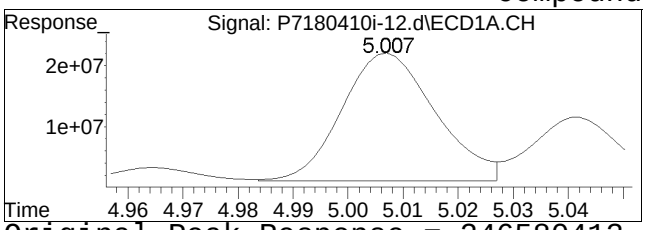
Compound #43: 1232-4

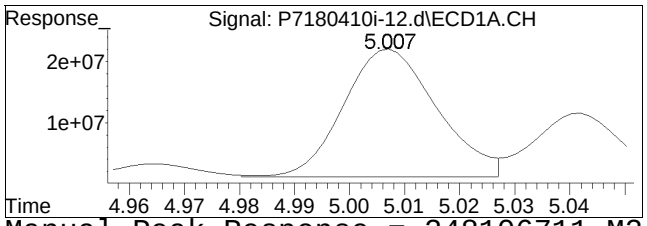




Original Peak Response = 61270178 Manual Peak Response = 85161003 M4
M4 = Poor automated baseline construction.

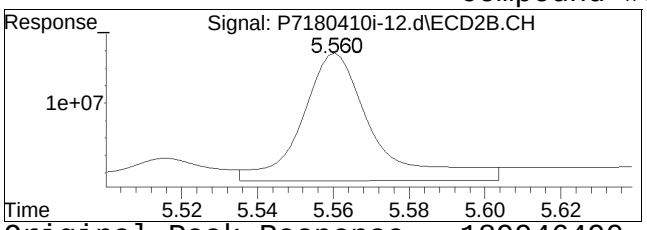
Compound #45: 1262-1

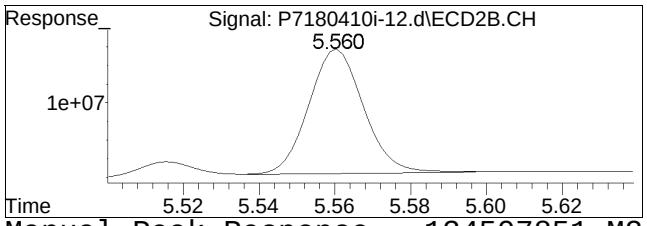




Original Peak Response = 246580413 Manual Peak Response = 248106711 M2
M2 = Peak not found by automatic integration algorithm.

Compound #95: 1262-1 #2





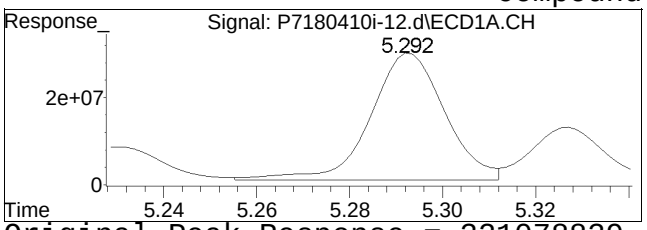
Original Peak Response = 189946490 Manual Peak Response = 134507851 M2
M2 = Peak not found by automatic integration algorithm.

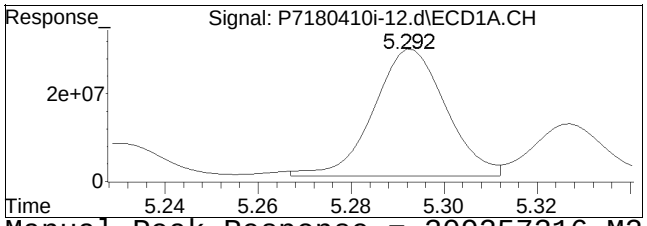
Manual Integration/Negative Proof Report

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-12.d
Date Inj'd : 4/10/2018 6:12 pm
Sample : il43262,42e,,8207

QMethod : P7_pcb_04_10_18_ugL_IC
Operator : pest7:kb
Instrument : Pest 7
Quant Date : 5/18/2018 11:30 am

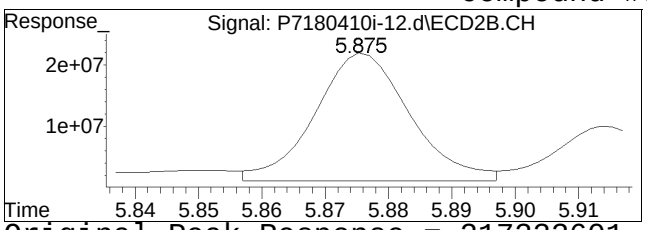
Compound #46: 1262-2

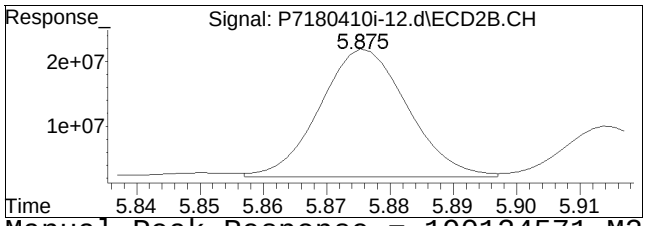




Original Peak Response = 321078839 Manual Peak Response = 309257316 M2
M2 = Peak not found by automatic integration algorithm.

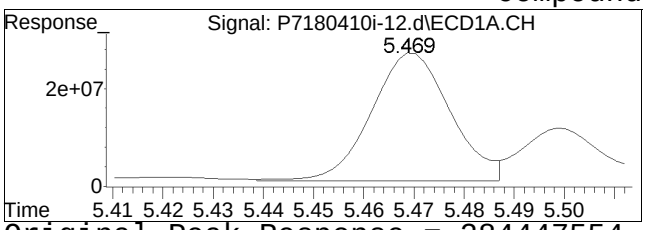
Compound #96: 1262-2 #2

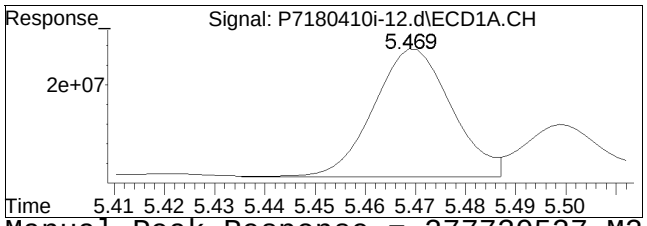




Original Peak Response = 217333601 Manual Peak Response = 190124571 M2
M2 = Peak not found by automatic integration algorithm.

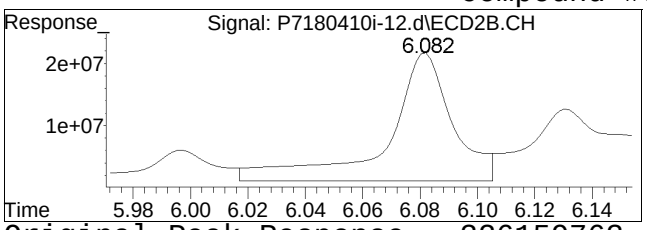
Compound #47: 1262-3

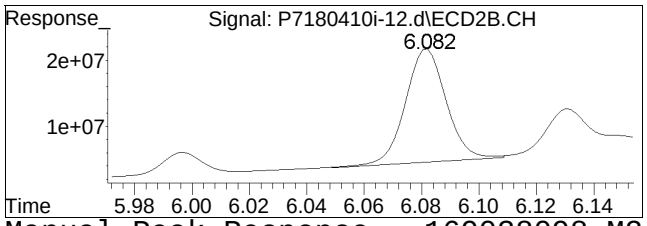




Original Peak Response = 284447554 Manual Peak Response = 277730527 M2
M2 = Peak not found by automatic integration algorithm.

Compound #97: 1262-3 #2





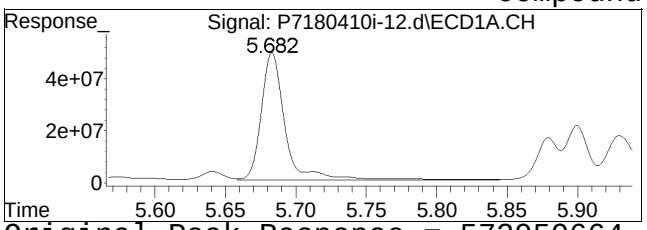
Original Peak Response = 326159763 Manual Peak Response = 169038098 M2
M2 = Peak not found by automatic integration algorithm.

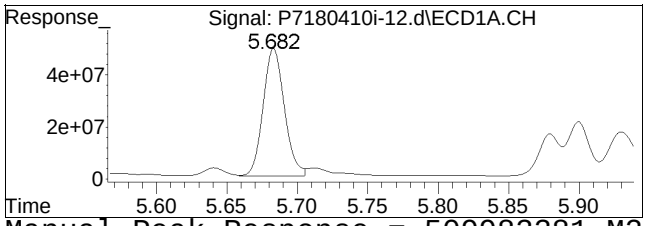
Manual Integration/Negative Proof Report

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-12.d
Date Inj'd : 4/10/2018 6:12 pm
Sample : il43262,42e,,8207

QMethod : P7_pcb_04_10_18_ugL_IC
Operator : pest7:kb
Instrument : Pest 7
Quant Date : 5/18/2018 11:30 am

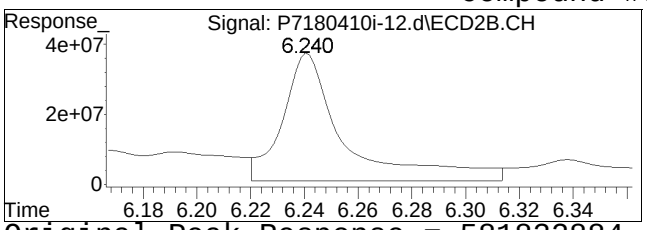
Compound #48: 1262-4

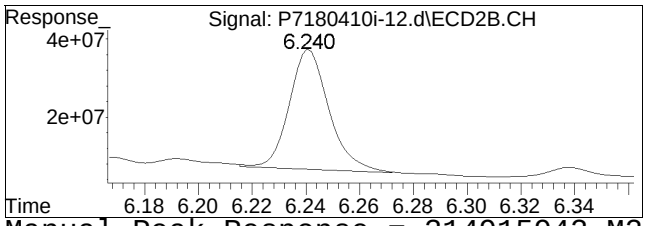




Original Peak Response = 572959664 Manual Peak Response = 509983381 M2
M2 = Peak not found by automatic integration algorithm.

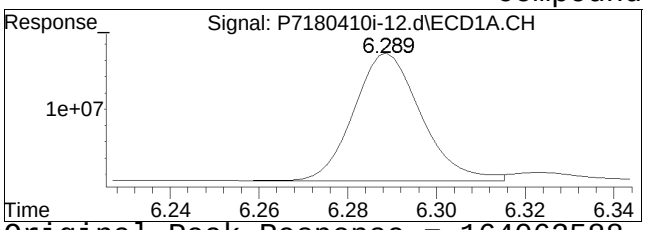
Compound #98: 1262-4 #2

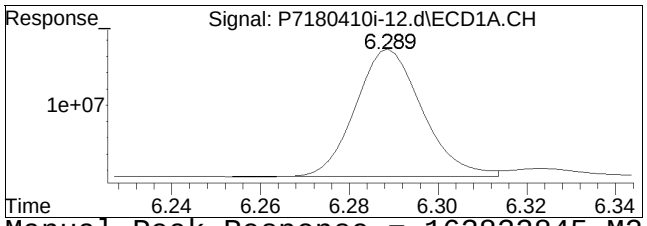




Original Peak Response = 581832884 Manual Peak Response = 314915942 M2
M2 = Peak not found by automatic integration algorithm.

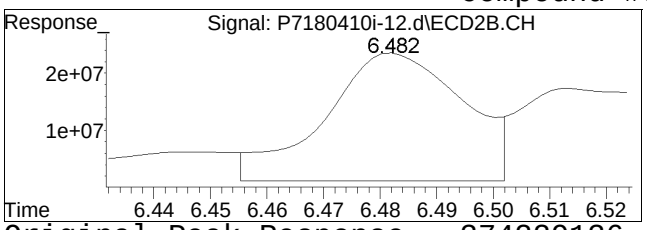
Compound #49: 1262-5

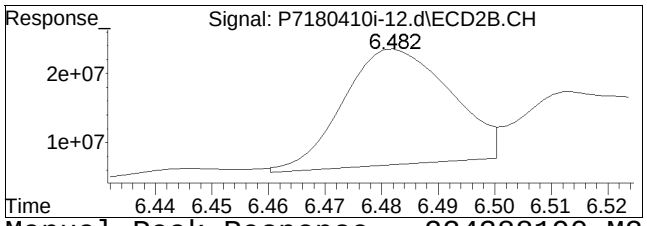




Original Peak Response = 164063588 Manual Peak Response = 163833845 M2
M2 = Peak not found by automatic integration algorithm.

Compound #99: 1262-5 #2





Original Peak Response = 374229136 Manual Peak Response = 224388190 M2
M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 6:25 pm
Operator : pest7:kb
Sample : il53262,42e,,8206
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 11:32:48 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 11:31:18 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
13) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
22) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
39) i	3262_1br2nb	2.102	2.231	415.2E6	324.1E6	250.000M4	250.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-T...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	500.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
3) s	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	500.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
4) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-2			0	0	N.D.	N.D.
	Average 1016-2					0.000	0.000
8) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
9) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
14) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 6:25 pm
Operator : pest7:kb
Sample : il53262,42e,,8206
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 11:32:48 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 11:31:18 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Sum 1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
17) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
18) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
23) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
24) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
28) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
29) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
34) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1248-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 6:25 pm
Operator : pest7:kb
Sample : il53262,42e,,8206
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 11:32:48 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 11:31:18 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1248-1					0.000	0.000
40) l5	1232-1	2.822	3.237	170.4E6	139.7E6	4666.111M4	4571.953
41) l5	1232-2	3.072	3.563	177.8E6	145.7E6	4658.557	4573.622
42) l5	1232-3	3.419	3.956	203.8E6	158.1E6	5112.694M4	4768.852
43) l5	1232-4	3.848	4.454	154.0E6	80945346	4574.906	4626.321
44) l5	1232-5	4.209	4.752	101.2E6	75179759	4909.806M4	4664.986
Sum	1232-1			807.3E6	599.7E6	23922.074	23205.734
Average	1232-1					4784.415	4641.147
45) l8	1262-1	5.007	5.560	467.4E6	276.9E6	4764.992	5146.039
46) l8	1262-2	5.293	5.876	603.3E6	380.6E6	4934.143	5004.926
47) l8	1262-3	5.469	6.082	535.0E6	351.9E6	4872.487M4	5204.427
48) l8	1262-4	5.684	6.241	1066.5E6	642.7E6	5289.673	5102.428
49) l8	1262-5	6.289	6.482	346.8E6	462.6E6	5354.287	5153.583
Sum	1262-1			3019.0E6	2114.7E6	25215.582	25611.403
Average	1262-1					5043.116	5122.281

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			3019.0E6	2114.7E6	25215.582	25611.403
Average	1262-1					5043.116	5122.281

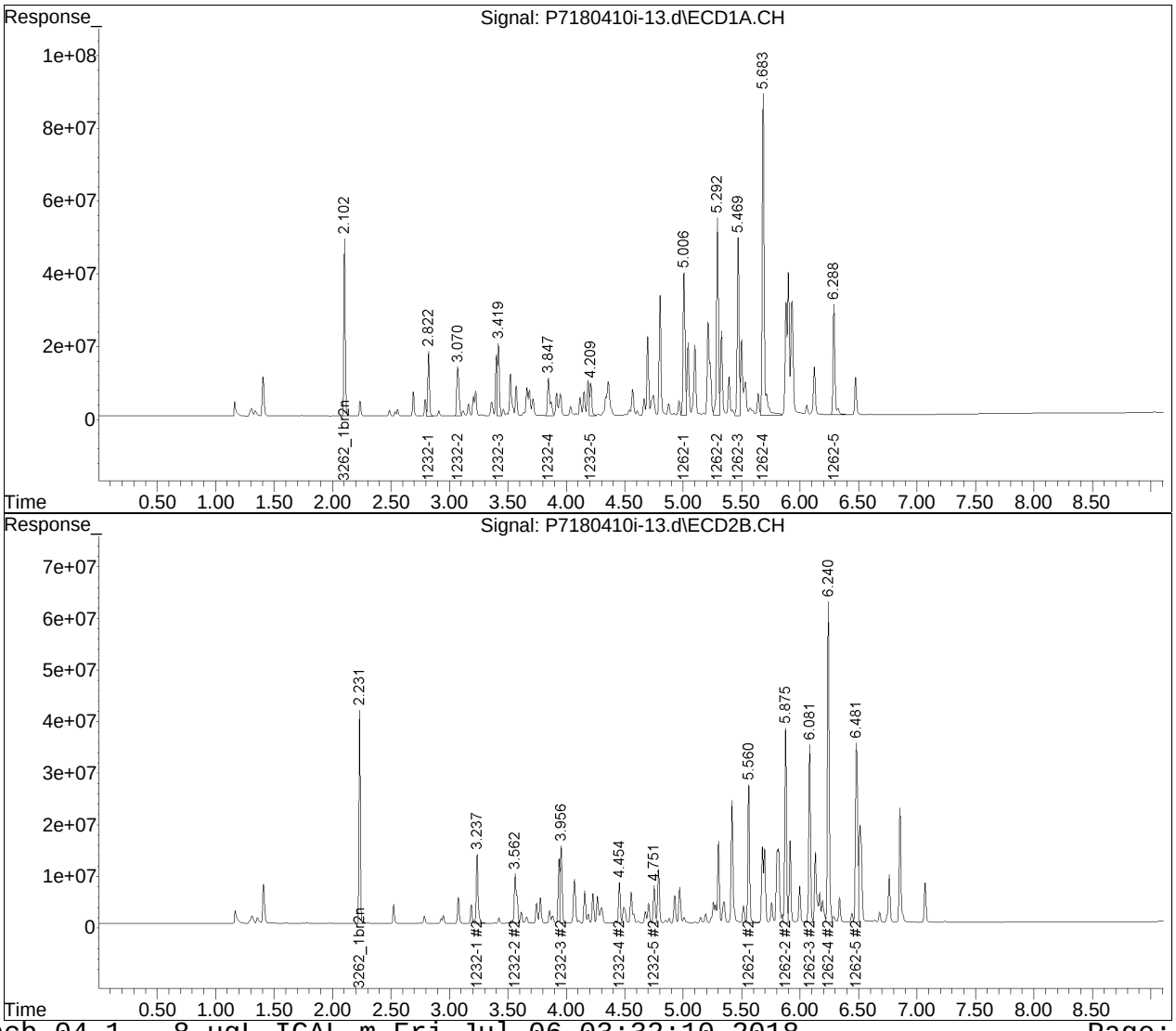
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-13.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 6:25 pm
Operator : pest7:kb
Sample : il53262,42e,,8206
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 12 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 11:32:48 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 11:31:18 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

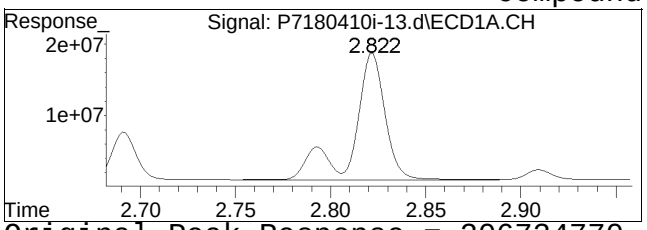


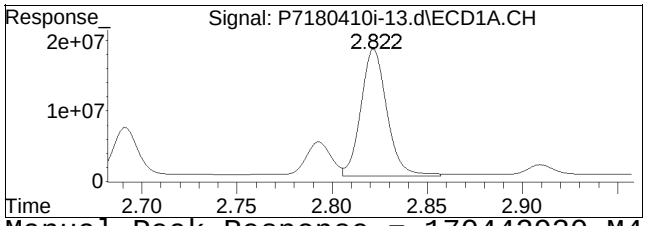
Manual Integration/Negative Proof Report

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-13.d
Date Inj'd : 4/10/2018 6:25 pm
Sample : il53262,42e,,8206

QMethod : P7_pcb_04_10_18_ugL_IC
Operator : pest7:kb
Instrument : Pest 7
Quant Date : 5/18/2018 11:31 am

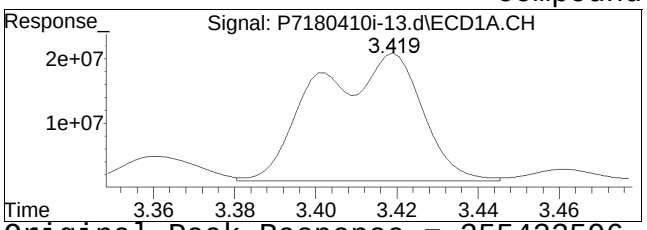
Compound #40: 1232-1

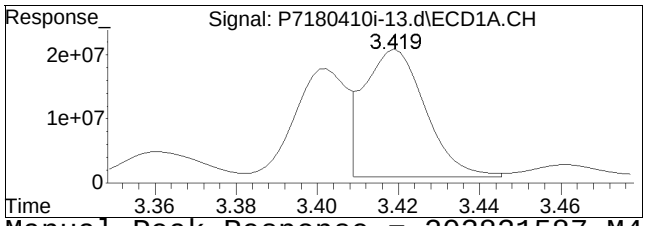




Original Peak Response = 206734770 Manual Peak Response = 170442930 M4
M4 = Poor automated baseline construction.

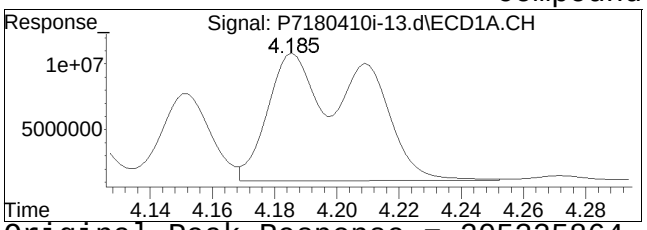
Compound #42: 1232-3

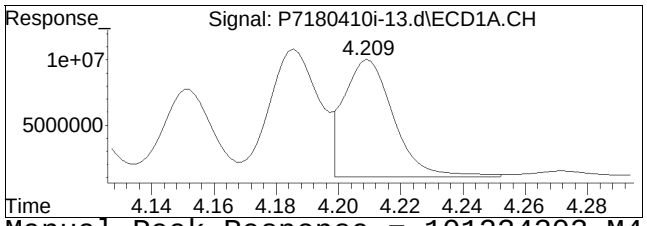




Original Peak Response = 355433596 Manual Peak Response = 203831587 M4
M4 = Poor automated baseline construction.

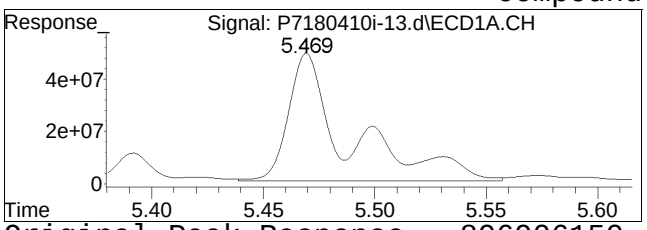
Compound #44: 1232-5

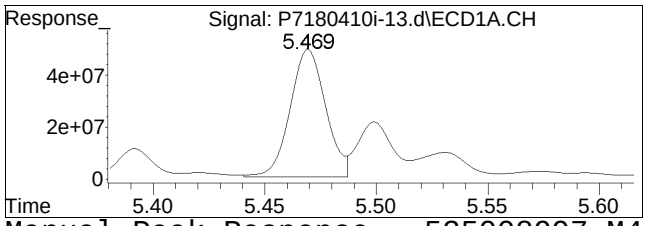




Original Peak Response = 205325864 Manual Peak Response = 101234303 M4
M4 = Poor automated baseline construction.

Compound #47: 1262-3





Original Peak Response = 896906150 Manual Peak Response = 535008997 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-14.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 6:38 pm
Operator : pest7:kb
Sample : il63262,42e,,8205
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 11:33:37 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 11:33:00 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
13) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
22) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
39) i	3262_1br2nb	2.103	2.232	408.6E6	316.8E6	250.000	250.000
	System Monitoring Compounds						
2) s	2,4,5,6-T...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
3) s	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
4) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-2			0	0	N.D.	N.D.
	Average 1016-2					0.000	0.000
8) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
9) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
14) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1221-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-14.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 6:38 pm
Operator : pest7:kb
Sample : il63262,42e,,8205
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 11:33:37 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 11:33:00 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1221-1					0.000	0.000
17) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
18) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
23) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
24) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
28) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
29) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
34) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-14.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 6:38 pm
Operator : pest7:kb
Sample : il63262,42e,,8205
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 11:33:37 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 11:33:00 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
40)	l5 1232-1	2.822	3.237	298.4E6	255.4E6	8588.570	8932.495
41)	l5 1232-2	3.071	3.563	324.6E6	270.1E6	8950.355	9058.111
42)	l5 1232-3	3.418	3.957	380.0E6	299.5E6	9578.796M4	9459.442
43)	l5 1232-4	3.847	4.454	293.1E6	152.0E6	9240.306	9232.797
44)	l5 1232-5	4.209	4.752	194.6E6	142.1E6	9676.535	9335.303
	Sum 1232-1			1490.8E6	1119.1E6	46034.562	46018.147
Average	1232-1					9206.912	9203.629
45)	l8 1262-1	5.007	5.560	867.4E6	520.6E6	9202.174	9757.987
46)	l8 1262-2	5.293	5.876	1102.6E6	709.3E6	9225.147	9537.535
47)	l8 1262-3	5.470	6.081	988.4E6	661.5E6	9265.909	9808.492
48)	l8 1262-4	5.684	6.241	1919.9E6	1183.4E6	9404.202	9513.851
49)	l8 1262-5	6.289	6.482	603.2E6	872.3E6	9139.478	9792.548
	Sum 1262-1			5481.6E6	3947.1E6	46236.911	48410.415
Average	1262-1					9247.382	9682.083

SemiQuant Compounds - Not Calibrated on this Instrument

	Sum 1262-1			5481.6E6	3947.1E6	46236.911	48410.415
Average	1262-1					9247.382	9682.083

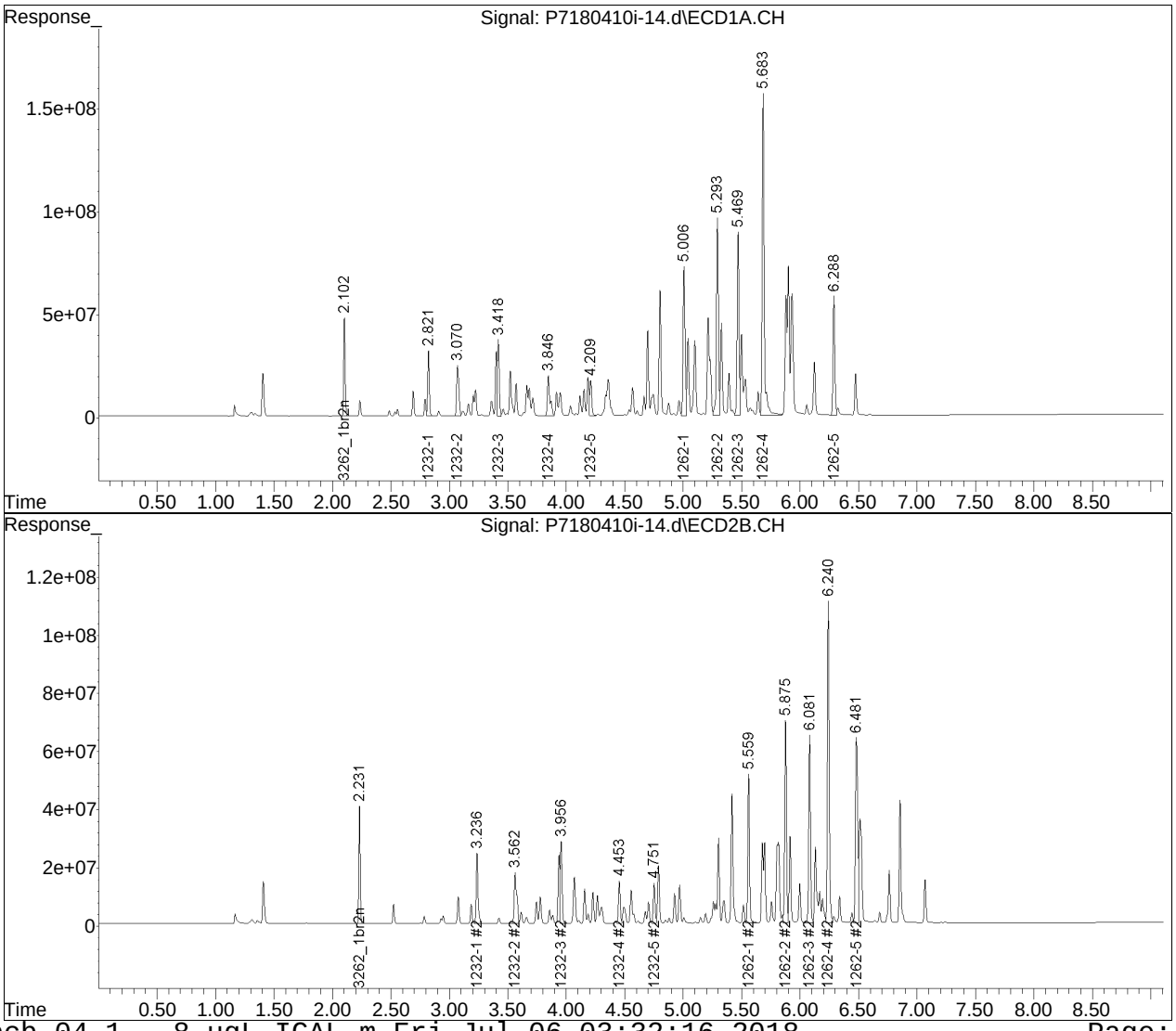
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-14.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 6:38 pm
Operator : pest7:kb
Sample : il63262,42e,,8205
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 13 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 11:33:37 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 11:33:00 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

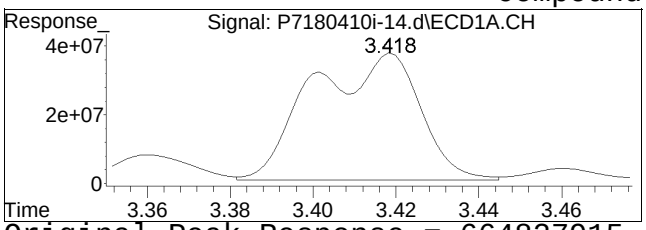


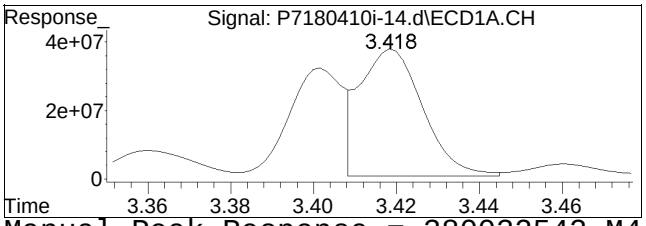
Manual Integration/Negative Proof Report

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-14.d
Date Inj'd : 4/10/2018 6:38 pm
Sample : il63262,42e,,8205

QMethod : P7_pcb_04_10_18_ugL_IC
Operator : pest7:kb
Instrument : Pest 7
Quant Date : 5/18/2018 11:33 am

Compound #42: 1232-3





Original Peak Response = 664827915 Manual Peak Response = 380032542 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-15.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 6:51 pm
Operator : pest7:kb
Sample : il11248,42e,,8216
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 30 10:10:47 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 30 10:10:30 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
13) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
22) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1248_1br2nb	2.103	2.232	409.8E6	320.0E6	250.000	250.000
39) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-T...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	500.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
3) s	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	500.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
4) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-2			0	0	N.D.	N.D.
	Average 1016-2					0.000	0.000
8) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
9) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
14) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1221-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-15.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 6:51 pm
Operator : pest7:kb
Sample : il11248,42e,,8216
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 30 10:10:47 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 30 10:10:30 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1221-1					0.000	0.000
17) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
18) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
23) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
24) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
28) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
29) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
34) l7	1248-1	3.663	4.228	8072363	5820314	127.163M4	134.711
35) l7	1248-2	3.848	4.454	11335661	6630941	123.874	130.294
36) l7	1248-3	4.187	4.751	8413010	6864392	113.315M4	126.934
37) l7	1248-4	4.210	4.789	6537542	7592692	105.962M4	126.708
38) l7	1248-5	4.362	4.970	14283465	6822491	115.861	127.333
Sum	1248-1			48642041	33730830	N.D.	N.D.
Average	1248-1					117.235	129.196

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-15.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 6:51 pm
Operator : pest7:kb
Sample : il11248,42e,,8216
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 30 10:10:47 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 30 10:10:30 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
40) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
41) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
45) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
46) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

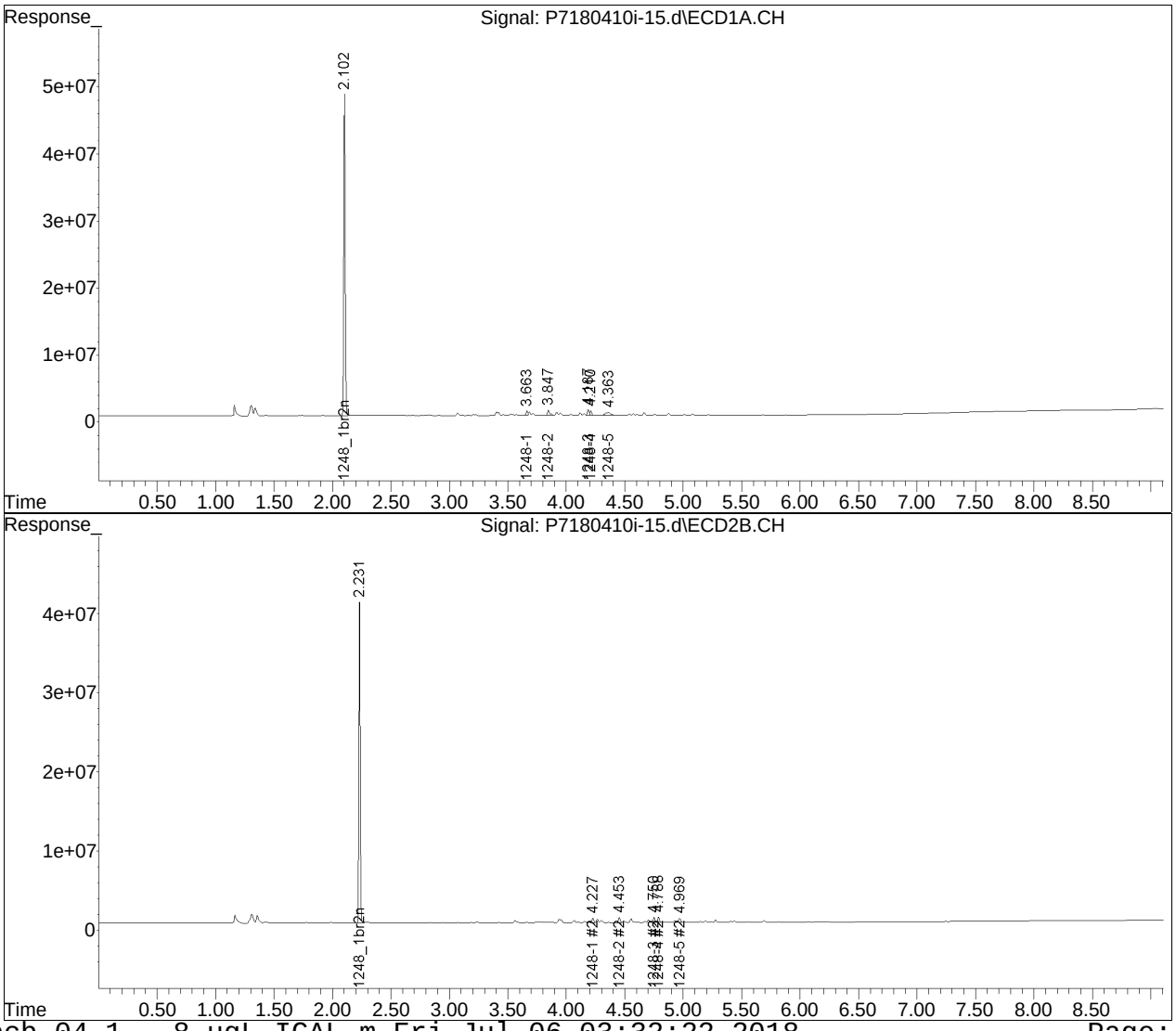
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-15.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 6:51 pm
Operator : pest7:kb
Sample : il11248,42e,,8216
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 30 10:10:47 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 30 10:10:30 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

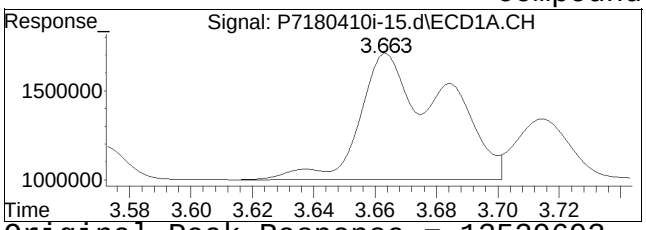


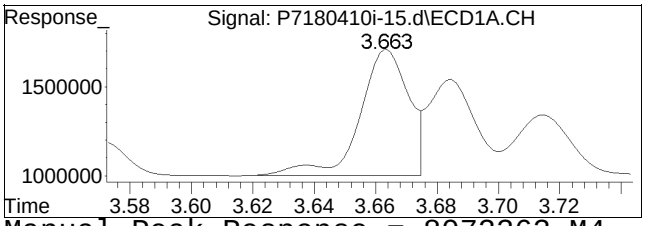
Manual Integration/Negative Proof Report

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-15.d
Date Inj'd : 4/10/2018 6:51 pm
Sample : il11248,42e,,8216

QMethod : P7_pcb_04_10_18_ugL_IC
Operator : pest7:kb
Instrument : Pest 7
Quant Date : 5/30/2018 10:10 am

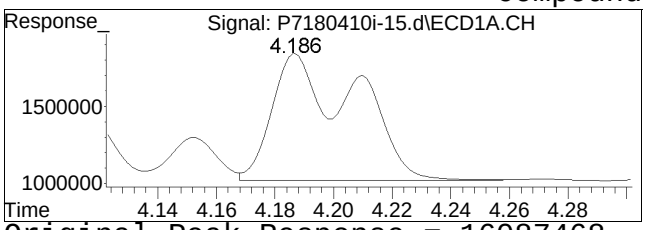
Compound #34: 1248-1

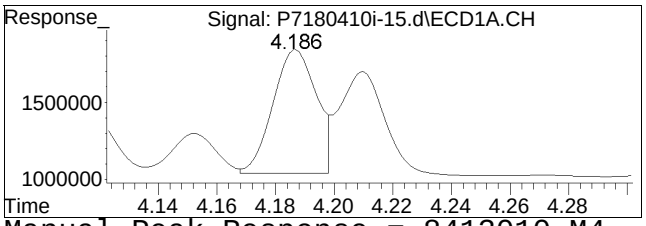




Original Peak Response = 13529693 Manual Peak Response = 8072363 M4
M4 = Poor automated baseline construction.

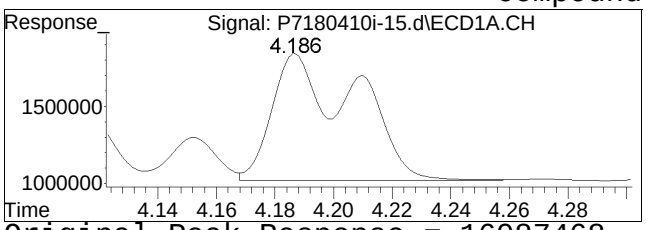
Compound #36: 1248-3

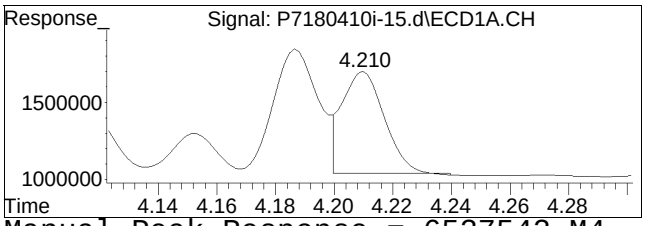




Original Peak Response = 16087468 Manual Peak Response = 8413010 M4
M4 = Poor automated baseline construction.

Compound #37: 1248-4





Original Peak Response = 16087468 Manual Peak Response = 6537542 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-16.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 7:04 pm
Operator : pest7:kb
Sample : il21248,42e,,8215
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 13:02:53 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 13:00:29 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
13) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
22) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1248_1br2nb	2.103	2.232	403.7E6	315.1E6	250.000	250.000
39) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-T...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
3) s	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
4) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-2			0	0	N.D.	N.D.
	Average 1016-2					0.000	0.000
8) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
9) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
14) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1221-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-16.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 7:04 pm
Operator : pest7:kb
Sample : il21248,42e,,8215
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 13:02:53 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 13:00:29 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1221-1					0.000	0.000
17) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
18) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
23) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
24) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
28) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
29) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
34) l7	1248-1	3.663	4.228	35716066	23362156	637.159M4	618.023
35) l7	1248-2	3.848	4.454	48256735	27097466	580.275	598.318
36) l7	1248-3	4.186	4.751	36974041	28719090	524.520M4	590.806
37) l7	1248-4	4.209	4.790	32387239	31785383	550.203M4	589.545
38) l7	1248-5	4.362	4.970	64954185	28133790	567.306	582.848
Sum	1248-1			218.3E6	139.1E6	N.D.	N.D.
Average	1248-1					571.893	595.908

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-16.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 7:04 pm
Operator : pest7:kb
Sample : il21248,42e,,8215
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 13:02:53 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 13:00:29 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
40) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
41) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
45) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
46) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

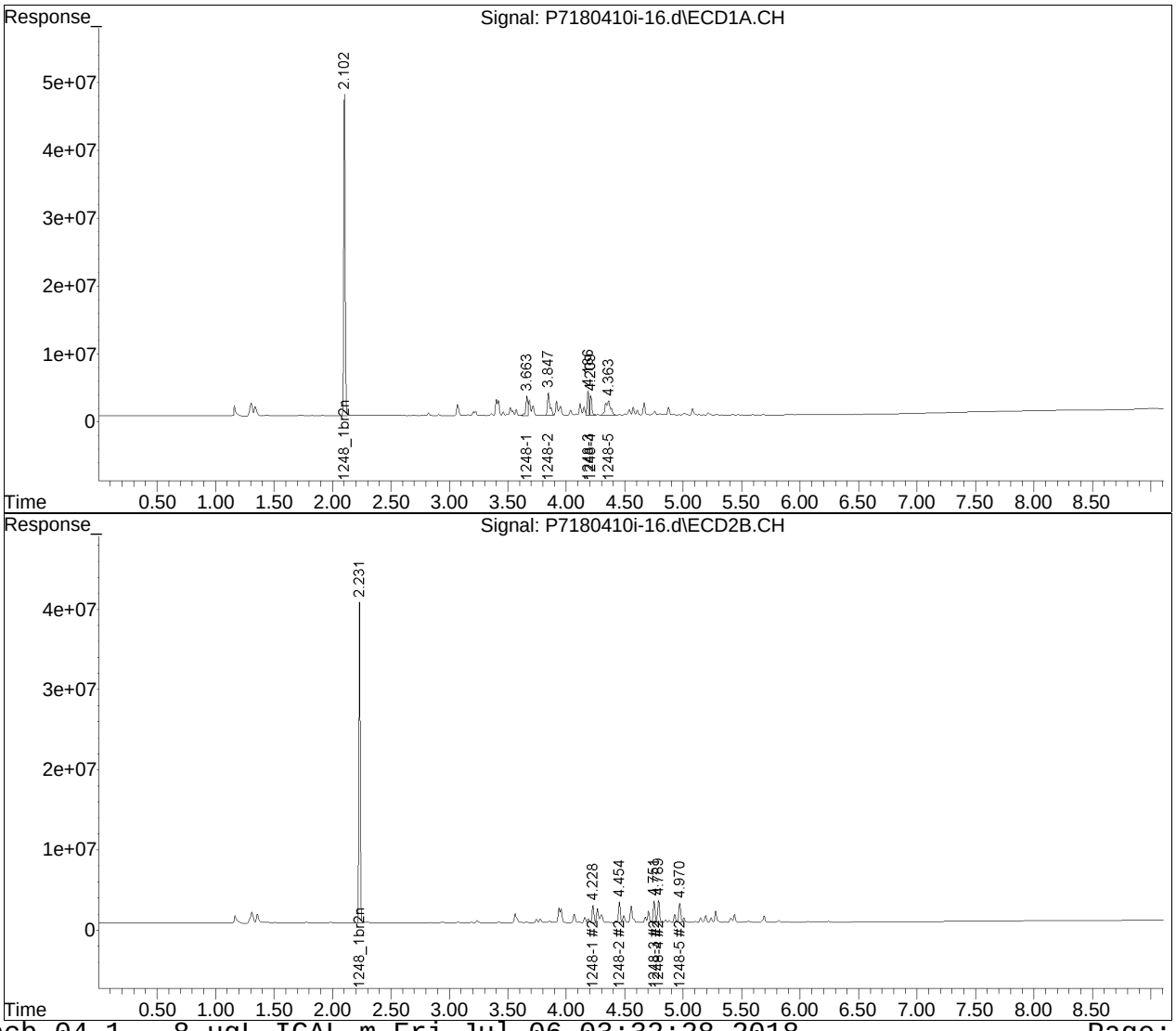
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-16.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 7:04 pm
Operator : pest7:kb
Sample : il21248,42e,,8215
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 13:02:53 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 13:00:29 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

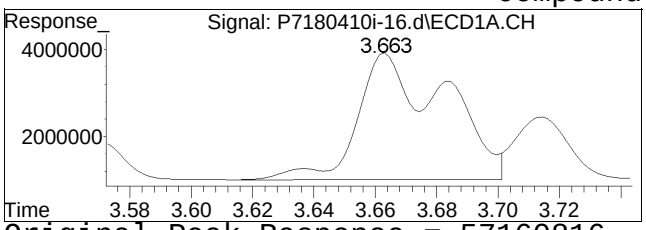


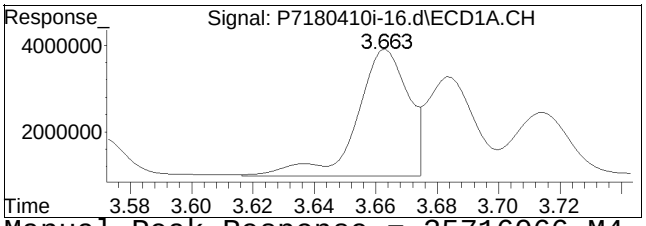
Manual Integration/Negative Proof Report

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-16.d
Date Inj'd : 4/10/2018 7:04 pm
Sample : il21248,42e,,8215

QMethod : P7_pcb_04_10_18_ugL_IC
Operator : pest7:kb
Instrument : Pest 7
Quant Date : 5/18/2018 1:00 pm

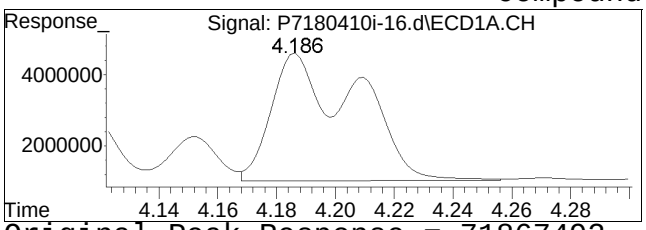
Compound #34: 1248-1

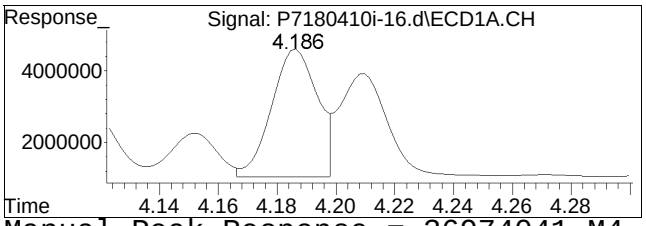




Original Peak Response = 57160816 Manual Peak Response = 35716066 M4
M4 = Poor automated baseline construction.

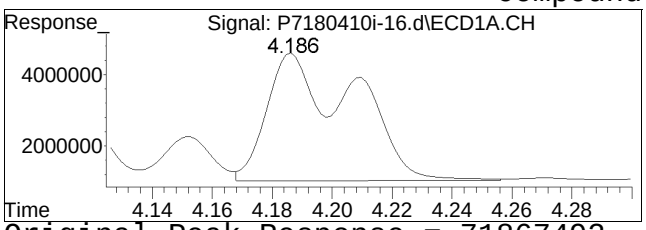
Compound #36: 1248-3

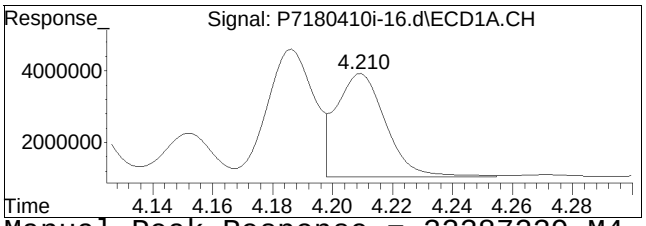




Original Peak Response = 71867492 Manual Peak Response = 36974041 M4
M4 = Poor automated baseline construction.

Compound #37: 1248-4





Original Peak Response = 71867492 Manual Peak Response = 32387239 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-17.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 7:17 pm
Operator : pest7:kb
Sample : il31248,42e,,8214
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 13:00:18 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 12:53:10 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
13) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
22) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1248_1br2nb	2.103	2.232	413.3E6	322.3E6	250.000	250.000
39) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-T...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
3) s	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
4) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-2			0	0	N.D.	N.D.
	Average 1016-2					0.000	0.000
8) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
9) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
14) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1221-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-17.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 7:17 pm
Operator : pest7:kb
Sample : il31248,42e,,8214
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 13:00:18 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 12:53:10 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1221-1					0.000	0.000
17) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
18) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
23) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
24) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
28) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
29) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
34) l7	1248-1	3.663	4.228	63379013	42185836	1144.098M4	1125.050
35) l7	1248-2	3.848	4.454	89801820	49665651	1074.273	1098.391
36) l7	1248-3	4.186	4.752	75827504	52754960	1068.684M4	1082.905
37) l7	1248-4	4.209	4.790	65297458	58347829	1114.450M4	1078.764
38) l7	1248-5	4.363	4.970	121.8E6	51913684	1052.391	1069.676
Sum	1248-1			416.1E6	254.9E6	N.D.	N.D.
Average	1248-1					1090.779	1090.957

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-17.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 7:17 pm
Operator : pest7:kb
Sample : il31248,42e,,8214
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 13:00:18 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 12:53:10 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
40) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
41) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
45) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
46) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

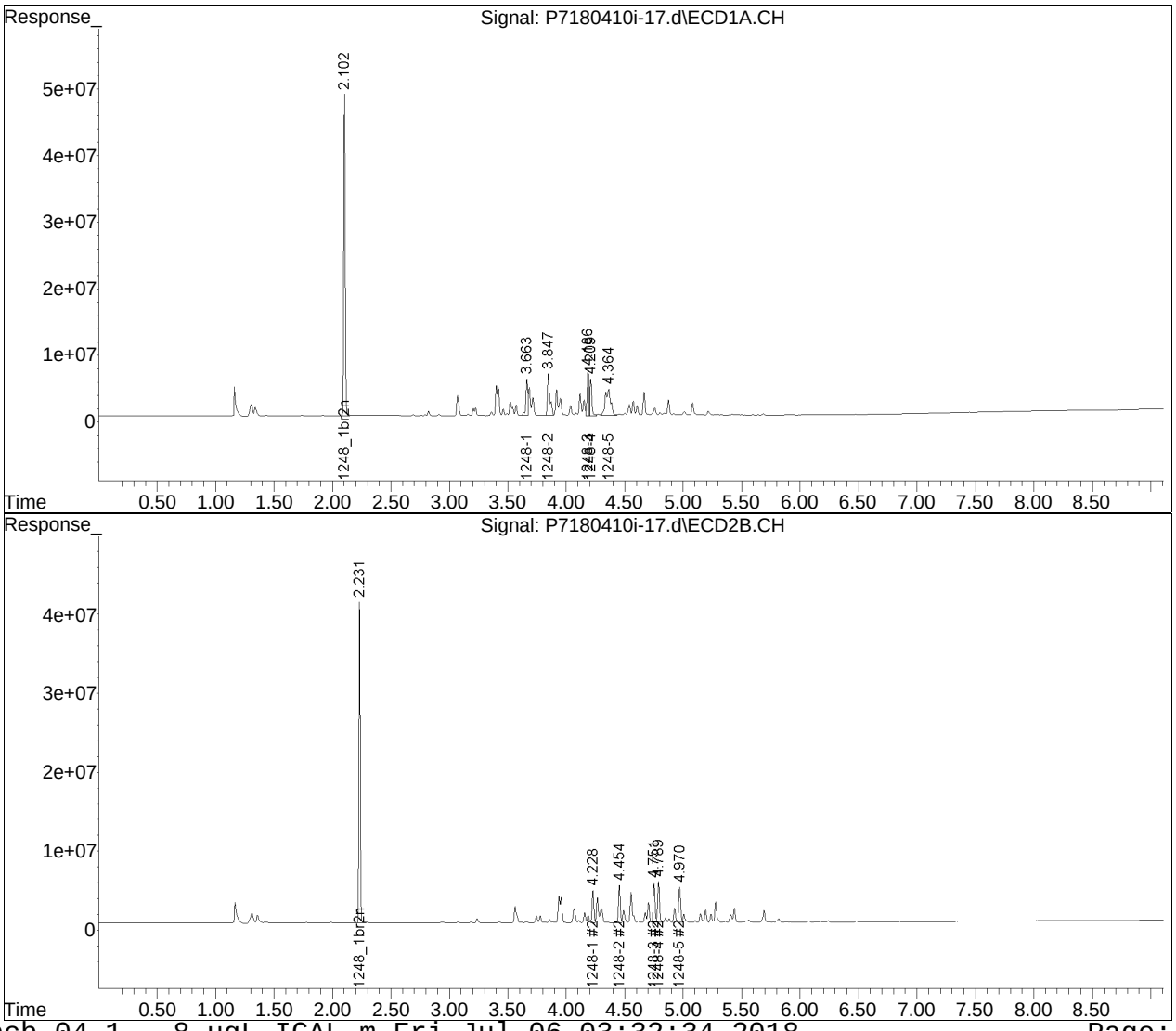
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-17.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 7:17 pm
Operator : pest7:kb
Sample : il31248,42e,,8214
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 13:00:18 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 12:53:10 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

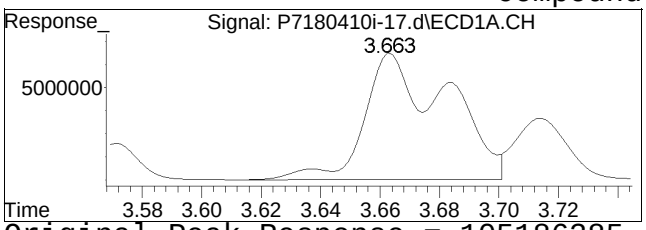


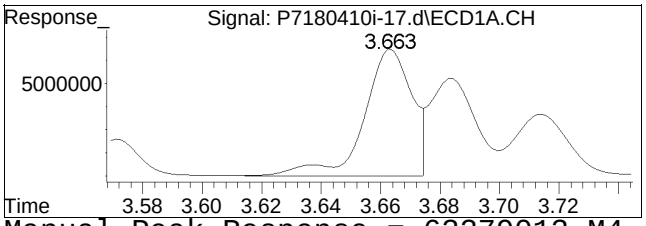
Manual Integration/Negative Proof Report

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-17.d
Date Inj'd : 4/10/2018 7:17 pm
Sample : il31248,42e,,8214

QMethod : P7_pcb_04_10_18_ugL_IC
Operator : pest7:kb
Instrument : Pest 7
Quant Date : 5/18/2018 12:57 pm

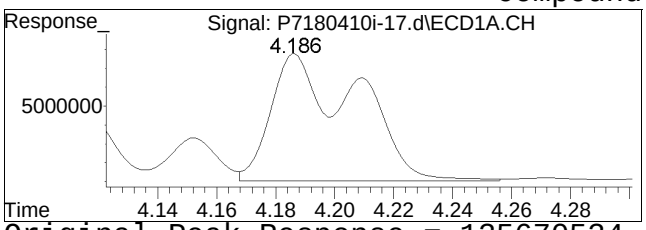
Compound #34: 1248-1

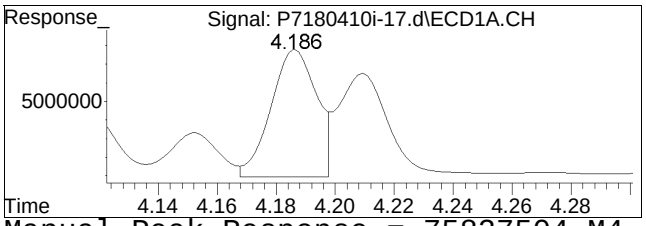




Original Peak Response = 105186385 Manual Peak Response = 63379013 M4
M4 = Poor automated baseline construction.

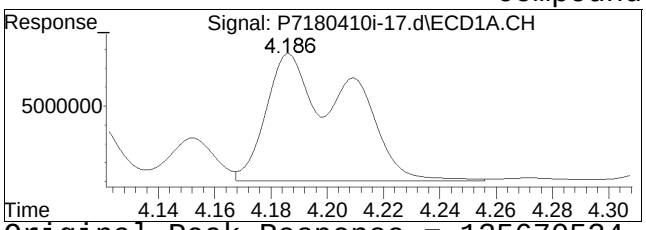
Compound #36: 1248-3

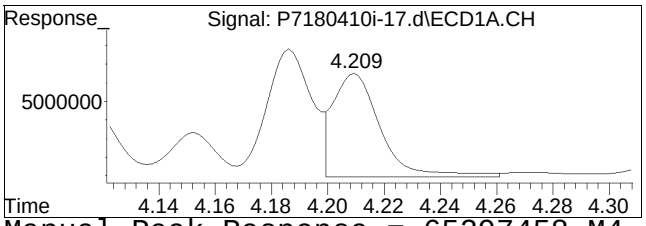




Original Peak Response = 135670534 Manual Peak Response = 75827504 M4
M4 = Poor automated baseline construction.

Compound #37: 1248-4





Original Peak Response = 135670534 Manual Peak Response = 65297458 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-18.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 7:30 pm
Operator : pest7:kb
Sample : il41248,42e,,8213
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 11:59:18 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 11:58:34 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
13) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
22) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1248_1br2nb	2.103	2.232	421.1E6	327.7E6	250.000	250.000
39) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-T...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
3) s	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
4) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-2			0	0	N.D.	N.D.
	Average 1016-2					0.000	0.000
8) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
9) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
14) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1221-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-18.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 7:30 pm
Operator : pest7:kb
Sample : il41248,42e,,8213
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 11:59:18 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 11:58:34 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1221-1					0.000	0.000
17) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
18) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
23) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
24) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
28) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
29) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
34) l7	1248-1	3.663	4.228	154.1E6	98486474	2500.000M4	2500.000
35) l7	1248-2	3.847	4.454	219.1E6	118.3E6	2500.000	2500.000
36) l7	1248-3	4.185	4.751	186.4E6	126.1E6	2500.000M4	2500.000
37) l7	1248-4	4.209	4.790	152.5E6	140.0E6	2500.000M4	2500.000
38) l7	1248-5	4.363	4.970	294.4E6	124.9E6	2500.000M2	2500.000
Sum	1248-1			1006.6E6	607.8E6	N.D.	N.D.
Average	1248-1					2500.000	2500.000

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-18.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 7:30 pm
Operator : pest7:kb
Sample : il41248,42e,,8213
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 11:59:18 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 11:58:34 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
40) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
41) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
45) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
46) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

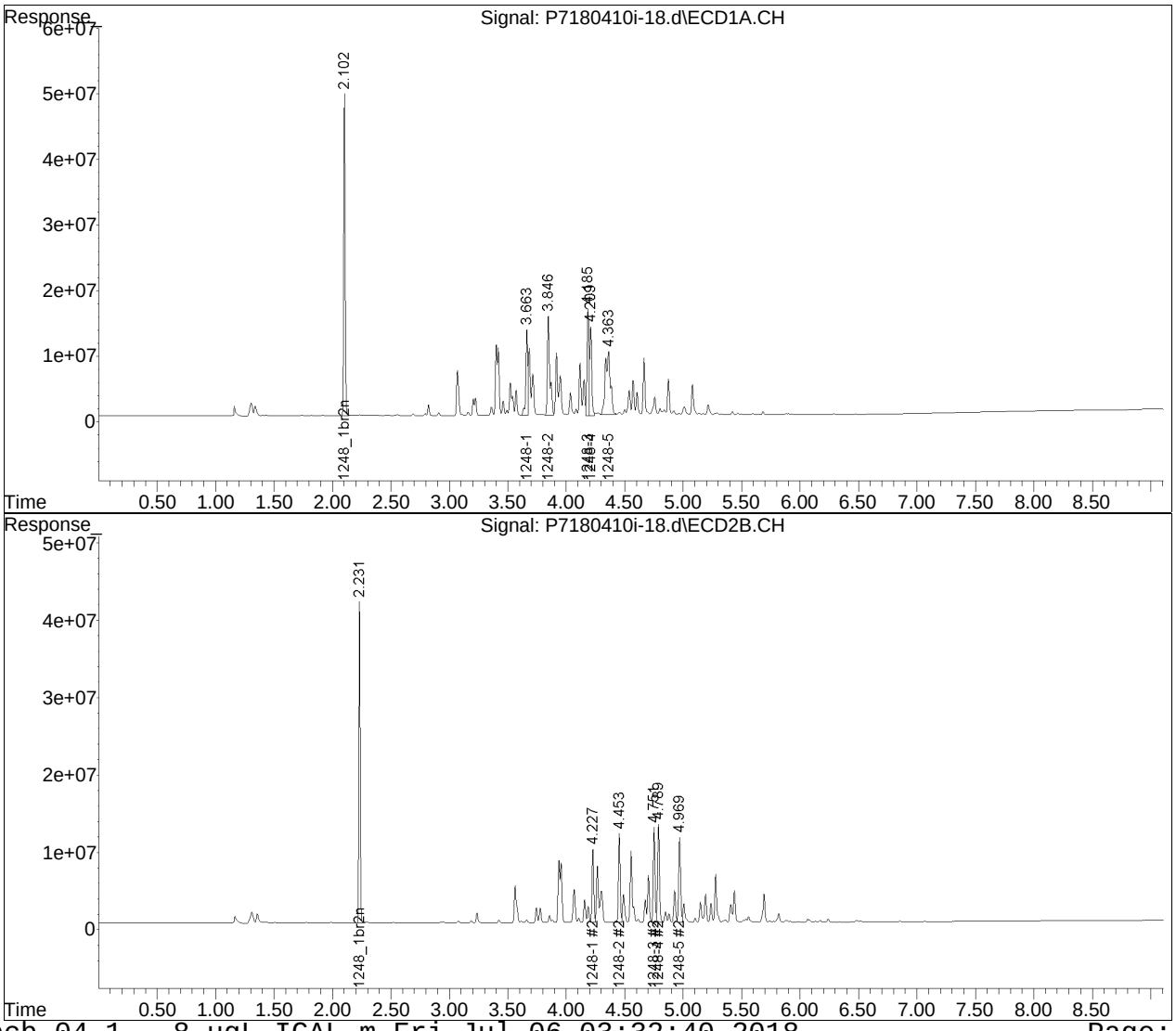
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-18.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 7:30 pm
Operator : pest7:kb
Sample : il41248,42e,,8213
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 11:59:18 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 11:58:34 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

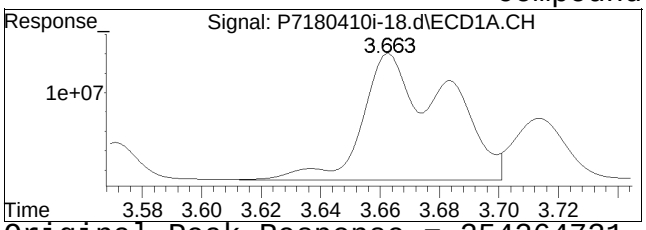


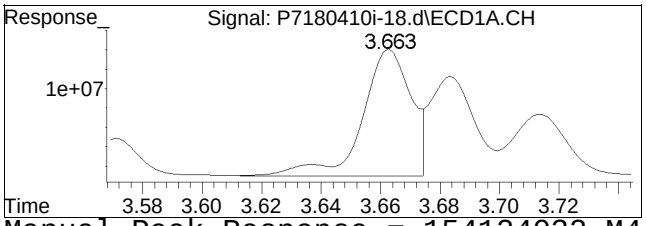
Manual Integration/Negative Proof Report

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-18.d
Date Inj'd : 4/10/2018 7:30 pm
Sample : il41248,42e,,8213

QMethod : P7_pcb_04_10_18_ugL_IC
Operator : pest7:kb
Instrument : Pest 7
Quant Date : 5/18/2018 11:59 am

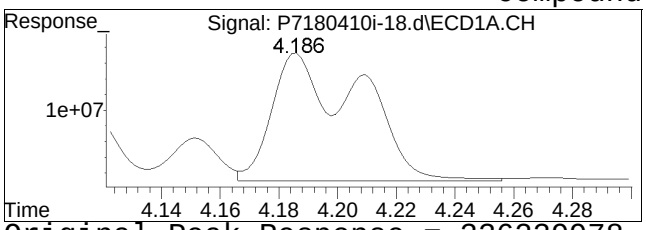
Compound #34: 1248-1

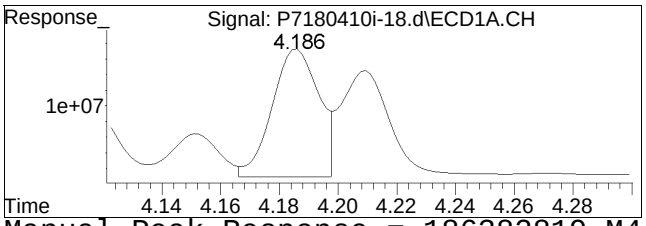




Original Peak Response = 254264731 Manual Peak Response = 154124032 M4
M4 = Poor automated baseline construction.

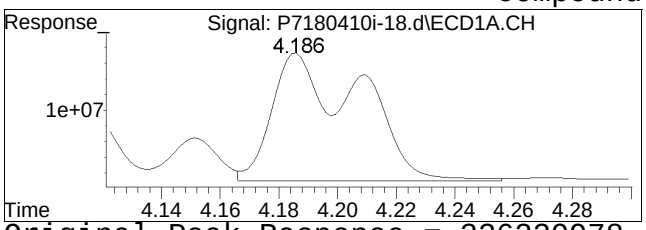
Compound #36: 1248-3

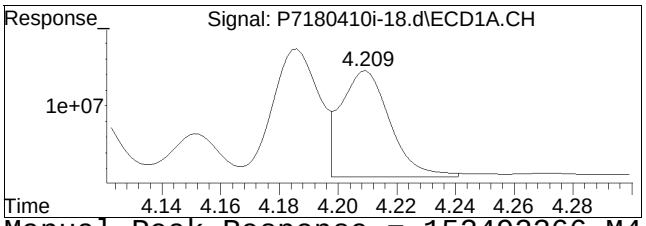




Original Peak Response = 336239978 Manual Peak Response = 186382819 M4
M4 = Poor automated baseline construction.

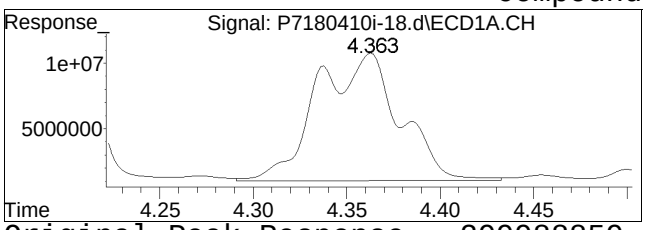
Compound #37: 1248-4

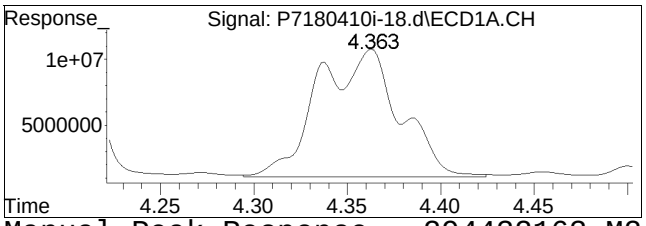




Original Peak Response = 336239978 Manual Peak Response = 152492366 M4
M4 = Poor automated baseline construction.

Compound #38: 1248-5





Original Peak Response = 299988859 Manual Peak Response = 294432163 M2
M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-19.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 7:42 pm
Operator : pest7:kb
Sample : il51248,42e,,8212
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 12:02:28 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 11:59:39 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
13) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
22) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1248_1br2nb	2.103	2.232	415.3E6	324.0E6	250.000	250.000
39) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-T...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	500.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
3) s	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	500.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
4) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-2			0	0	N.D.	N.D.
	Average 1016-2					0.000	0.000
8) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
9) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
14) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1221-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-19.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 7:42 pm
Operator : pest7:kb
Sample : il51248,42e,,8212
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 12:02:28 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 11:59:39 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1221-1					0.000	0.000
17) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
18) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
23) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
24) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
28) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
29) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
34) l7	1248-1	3.662	4.228	278.2E6	193.6E6	4575.649M4	4969.671
35) l7	1248-2	3.847	4.454	433.8E6	233.5E6	5017.549	4990.572
36) l7	1248-3	4.186	4.751	362.5E6	252.2E6	4929.132M4	5058.807
37) l7	1248-4	4.209	4.790	299.0E6	279.7E6	4969.994M4	5051.736
38) l7	1248-5	4.362	4.970	604.0E6	251.0E6	5199.132	5081.169
Sum	1248-1			1977.4E6	1210.0E6	N.D.	N.D.
Average	1248-1					4938.291	5030.391

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-19.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 7:42 pm
Operator : pest7:kb
Sample : il51248,42e,,8212
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 12:02:28 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 11:59:39 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
40) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
41) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
45) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
46) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

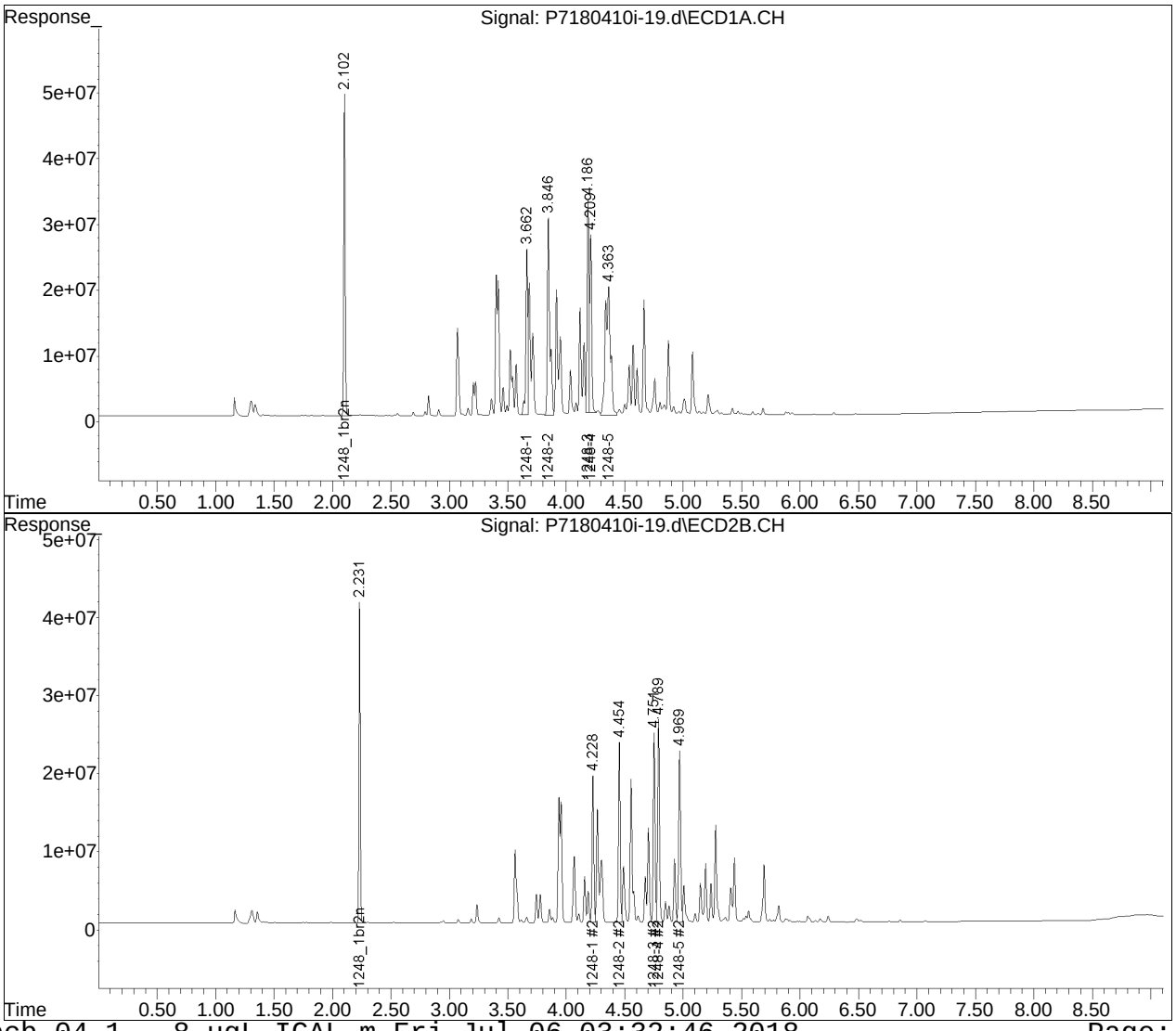
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-19.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 7:42 pm
Operator : pest7:kb
Sample : il51248,42e,,8212
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 12:02:28 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 11:59:39 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

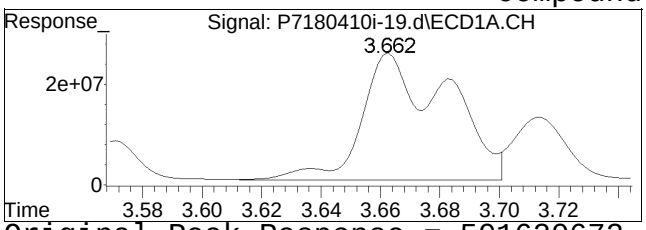


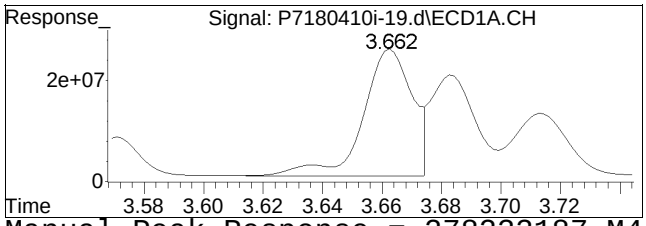
Manual Integration/Negative Proof Report

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-19.d
Date Inj'd : 4/10/2018 7:42 pm
Sample : il51248,42e,,8212

QMethod : P7_pcb_04_10_18_ugL_IC
Operator : pest7:kb
Instrument : Pest 7
Quant Date : 5/18/2018 11:59 am

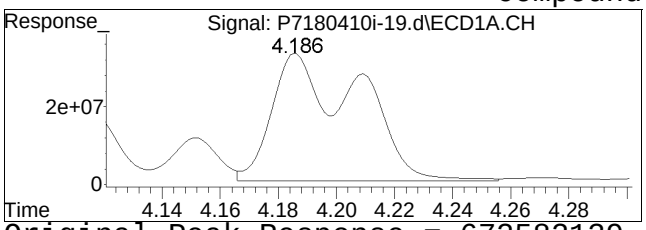
Compound #34: 1248-1

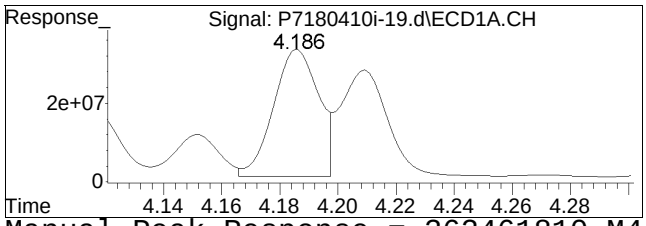




Original Peak Response = 501620672 Manual Peak Response = 278233187 M4
M4 = Poor automated baseline construction.

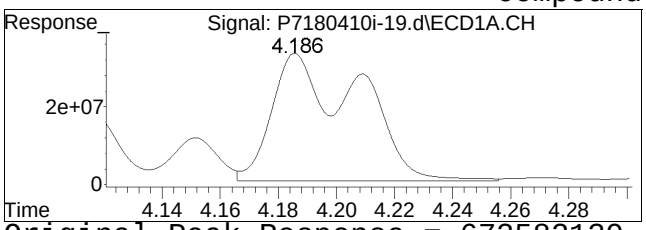
Compound #36: 1248-3

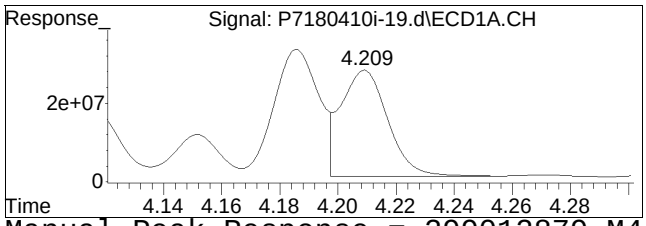




Original Peak Response = 672582139 Manual Peak Response = 362461810 M4
M4 = Poor automated baseline construction.

Compound #37: 1248-4





Original Peak Response = 672582139 Manual Peak Response = 299012879 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-20.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 7:55 pm
Operator : pest7:kb
Sample : il61248,42e,,8211
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 12:52:58 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 12:02:50 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
13) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
22) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1248_1br2nb	2.103	2.231	414.8E6	322.9E6	250.000	250.000
39) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-T...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	500.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
3) s	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	500.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
4) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-2			0	0	N.D.	N.D.
	Average 1016-2					0.000	0.000
8) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
9) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
14) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1221-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-20.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 7:55 pm
Operator : pest7:kb
Sample : il61248,42e,,8211
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 12:52:58 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 12:02:50 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1221-1					0.000	0.000
17) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
18) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
23) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
24) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
28) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
29) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
34) l7	1248-1	3.662	4.227	504.7E6	352.9E6	8679.464M4	9118.699
35) l7	1248-2	3.847	4.454	786.8E6	427.1E6	9096.594	9167.817
36) l7	1248-3	4.185	4.751	677.8E6	464.6E6	9294.618M4	9296.362
37) l7	1248-4	4.208	4.790	565.8E6	516.2E6	9445.571M4	9307.741
38) l7	1248-5	4.362	4.970	1117.1E6	465.8E6	9441.070	9385.539
Sum	1248-1			3652.2E6	2226.7E6	N.D.	N.D.
Average	1248-1					9191.463	9255.232

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-20.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 7:55 pm
Operator : pest7:kb
Sample : il61248,42e,,8211
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 12:52:58 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 12:02:50 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
40) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
41) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
45) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
46) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

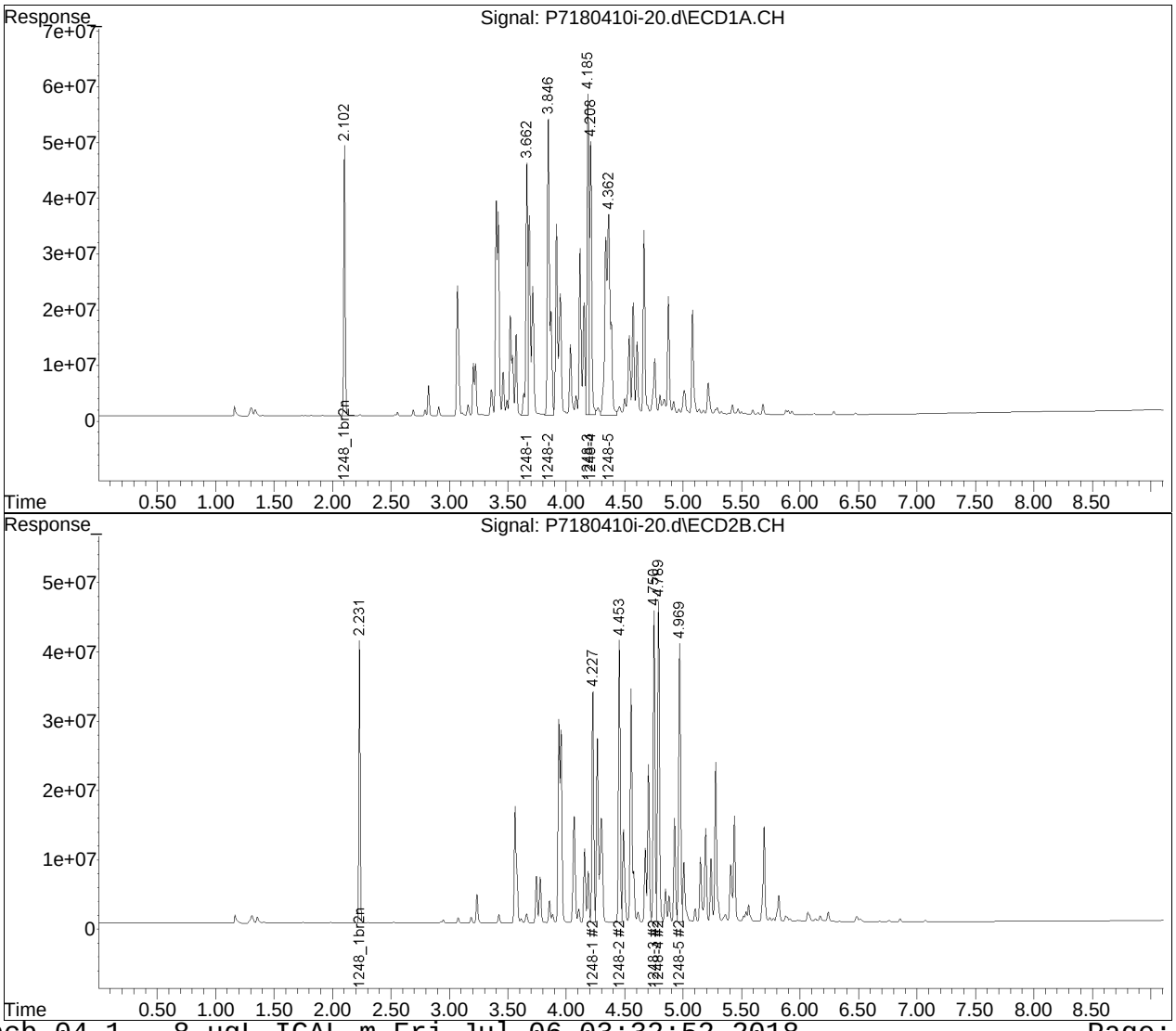
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-20.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 7:55 pm
Operator : pest7:kb
Sample : il61248,42e,,8211
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 12:52:58 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 12:02:50 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

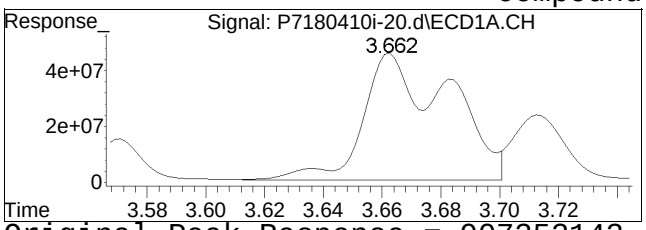


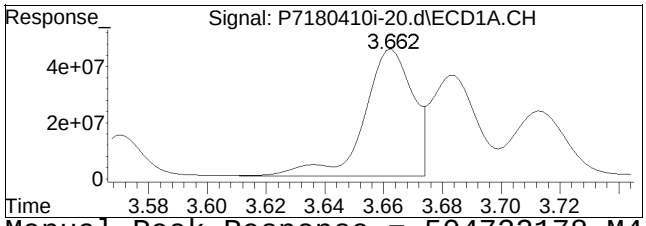
Manual Integration/Negative Proof Report

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-20.d
Date Inj'd : 4/10/2018 7:55 pm
Sample : il61248,42e,,8211

QMethod : P7_pcb_04_10_18_ugL_IC
Operator : pest7:kb
Instrument : Pest 7
Quant Date : 5/18/2018 12:49 pm

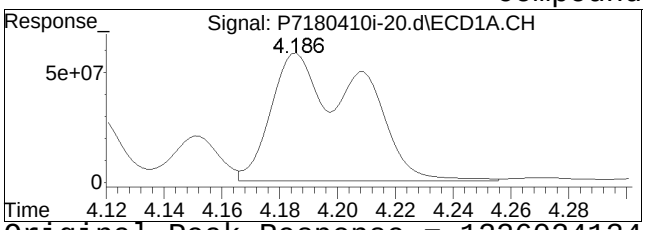
Compound #34: 1248-1

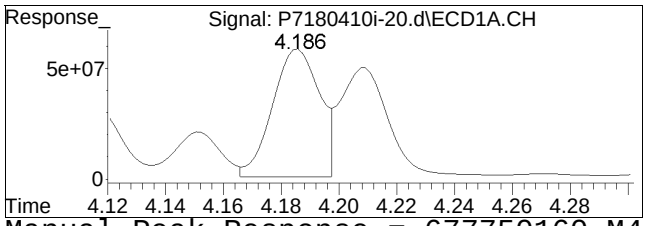




Original Peak Response = 907353143 Manual Peak Response = 504722178 M4
M4 = Poor automated baseline construction.

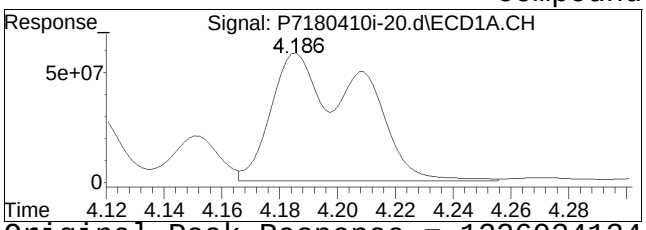
Compound #36: 1248-3

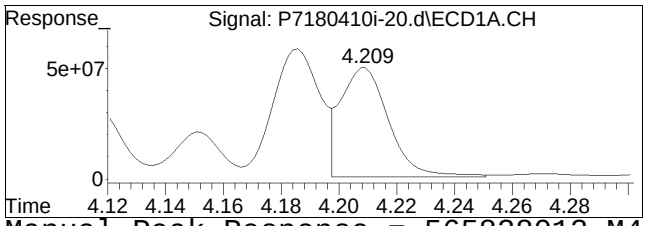




Original Peak Response = 1226024134 Manual Peak Response = 677750160 M4
M4 = Poor automated baseline construction.

Compound #37: 1248-4





Original Peak Response = 1226024134 Manual Peak Response = 565838013 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-21.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 8:08 pm
Operator : pest7:kb
Sample : il12154,42e,,8308
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 13:40:42 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 13:40:03 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
13) i	2154_1br2nb	2.102	2.232	428.1E6	333.9E6	250.000	250.000
22) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
39) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-T...	0.000	0.000	0	0	N.D. d	N.D. d
Spiked Amount	500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
3) s	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
Spiked Amount	500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
4) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016-2			0	0	N.D.	N.D.
Average	1016-2					0.000	0.000
8) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
9) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260-1			0	0	N.D.	N.D.
Average	1260-1					0.000	0.000
14) l3	1221-1	2.691	3.076	2637623	2222422	125.872	129.314
15) l3	1221-2	2.793	3.187	1687543	1483003	129.290	135.779
16) l3	1221-3	2.821	3.236	6217466	5253705	135.563	135.687
Sum	1221-1			10542631	8959130	390.725	400.779

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-21.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 8:08 pm
Operator : pest7:kb
Sample : il12154,42e,,8308
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 13:40:42 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 13:40:03 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1221-1					130.242	133.593
17) l4	1254-1	4.152	4.787	9122553	7513826	122.681	128.078
18) l4	1254-2	4.355	4.927	15539563	8524310	122.878	130.679
19) l4	1254-3	4.665	5.278	13771854	11003109	114.827	123.531
20) l4	1254-4	4.874	5.438	9928384	7454052	111.932	119.168
21) l4	1254-5	5.214	5.818	13565079	10200477	106.420	118.834
Sum	1254-1			61927433	44695774	N.D.	N.D.
Average	1254-1					115.748	124.058
23) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
24) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
28) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
29) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
34) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-21.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 8:08 pm
Operator : pest7:kb
Sample : il12154,42e,,8308
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 13:40:42 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 13:40:03 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
40) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
41) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
45) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
46) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

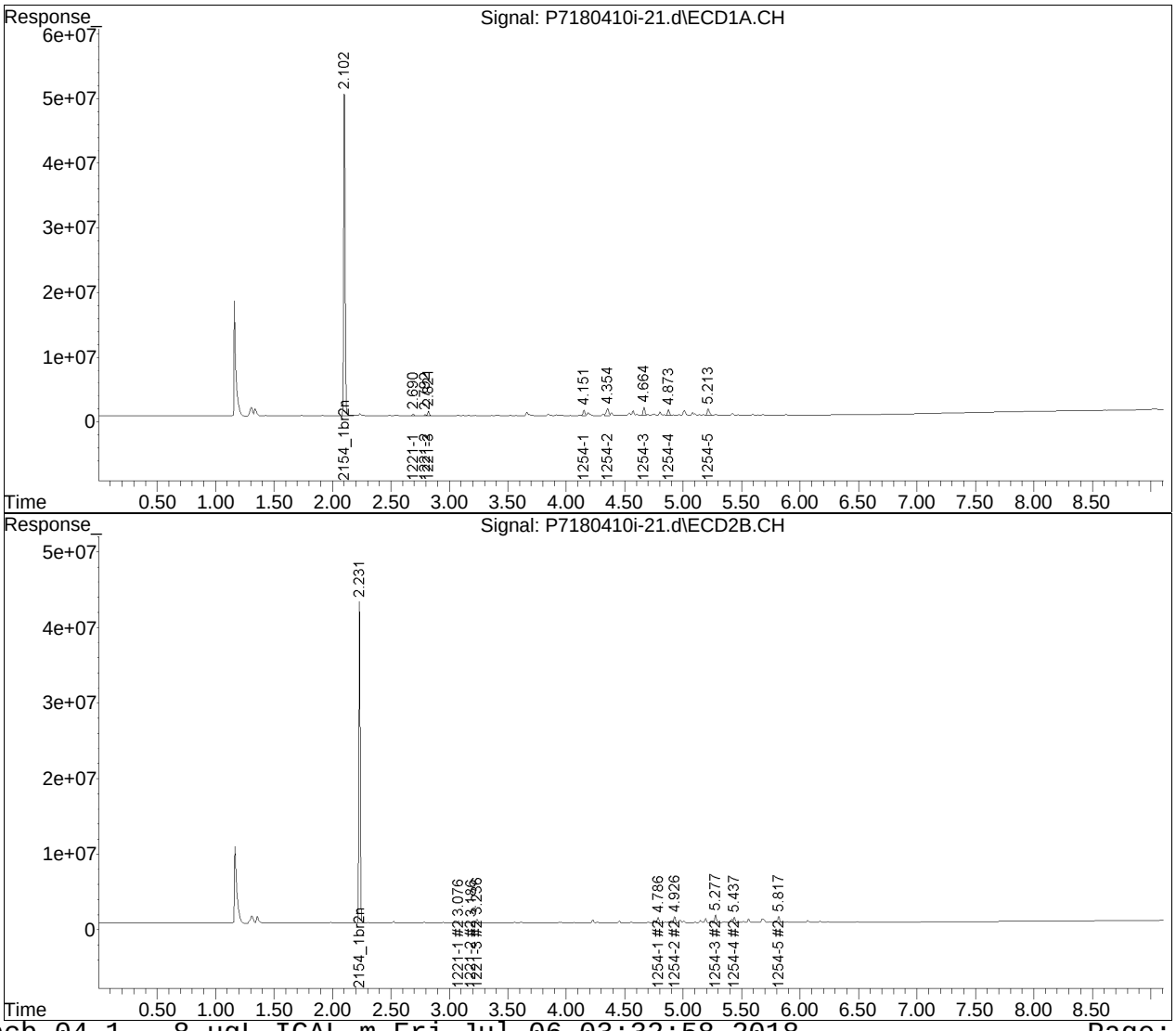
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-21.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 8:08 pm
Operator : pest7:kb
Sample : il12154,42e,,8308
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 13:40:42 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 13:40:03 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration/Negative Proof Report

Data Path	: I:\Pest7\180410ICAL\	QMethod	: P7_pcb_04_10_18_ugL_IC
Data File	: P7180410i-21.d	Operator	: pest7:kb
Date Inj'd	: 4/10/2018 8:08 pm	Instrument	: Pest 7
Sample	: il12154,42e,,8308	Quant Date	: 5/18/2018 1:40 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-22.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 8:21 pm
Operator : pest7:kb
Sample : il22154,42e,,8307
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 13:39:55 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 13:37:00 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
13) i	2154_1br2nb	2.103	2.232	432.5E6	337.0E6	250.000	250.000
22) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
39) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-T...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
3) s	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
4) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-2			0	0	N.D.	N.D.
	Average 1016-2					0.000	0.000
8) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
9) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
14) l3	1221-1	2.692	3.077	12136092	10002852	595.103	599.511
15) l3	1221-2	2.792	3.187	7956224	6535237	636.286M4	621.546
16) l3	1221-3	2.821	3.236	27555972	22929878	624.309M4	613.213
	Sum 1221-1			47648288	39467967	1855.698	1834.271

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-22.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 8:21 pm
Operator : pest7:kb
Sample : il22154,42e,,8307
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 13:39:55 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 13:37:00 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1221-1					618.566	611.424
17) l4	1254-1	4.151	4.787	40955122	33016373	557.797M4	574.007
18) l4	1254-2	4.354	4.927	69618411	36874512	557.452M4	577.300
19) l4	1254-3	4.664	5.279	65881841	49274656	555.913M4	561.487
20) l4	1254-4	4.875	5.438	47999126	34603858	545.389	561.503
21) l4	1254-5	5.215	5.818	68576175	47097746	541.352	555.624
Sum	1254-1			293.0E6	200.9E6	N.D.	N.D.
Average	1254-1					551.581	565.984
23) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
24) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
28) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
29) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
34) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-22.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 8:21 pm
Operator : pest7:kb
Sample : il22154,42e,,8307
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 13:39:55 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 13:37:00 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
40) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
41) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
45) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
46) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

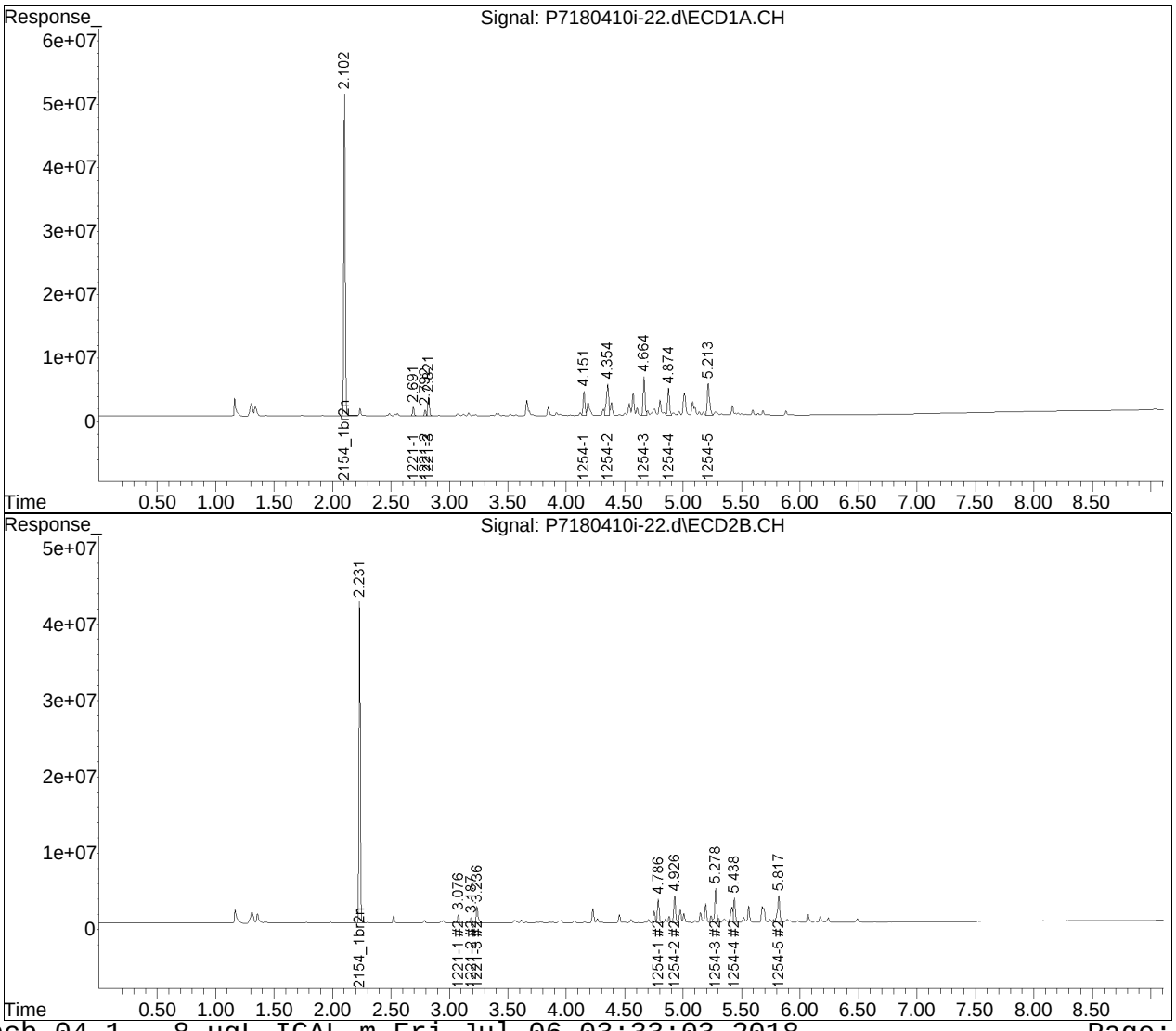
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-22.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 8:21 pm
Operator : pest7:kb
Sample : il22154,42e,,8307
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 13:39:55 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 13:37:00 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

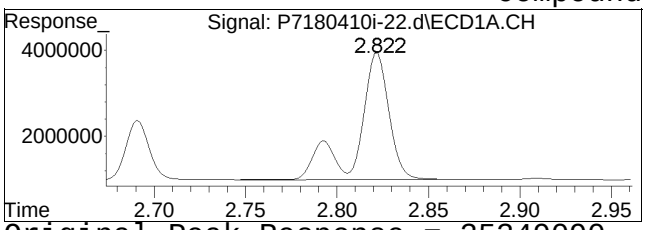


Manual Integration/Negative Proof Report

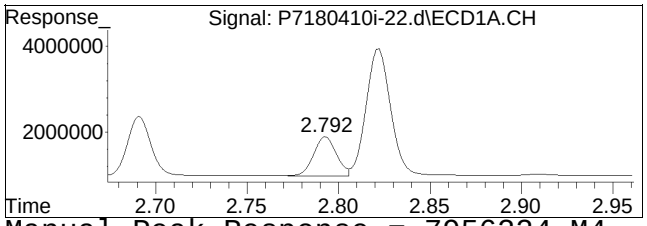
Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-22.d
Date Inj'd : 4/10/2018 8:21 pm
Sample : il22154,42e,,8307

QMethod : P7_pcb_04_10_18_ugL_IC
Operator : pest7:kb
Instrument : Pest 7
Quant Date : 5/18/2018 1:37 pm

Compound #15: 1221-2

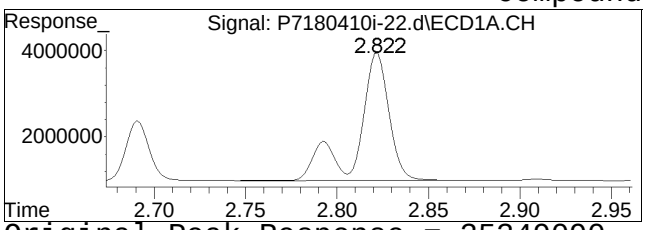


Original Peak Response = 35349090

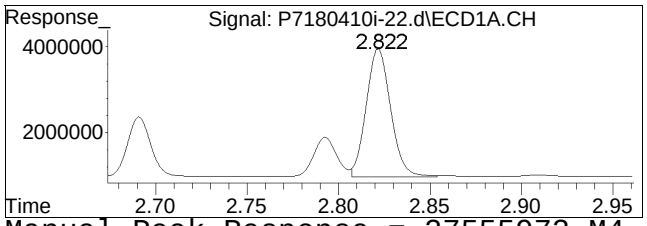


Manual Peak Response = 7956224 M4
M4 = Poor automated baseline construction.

Compound #16: 1221-3

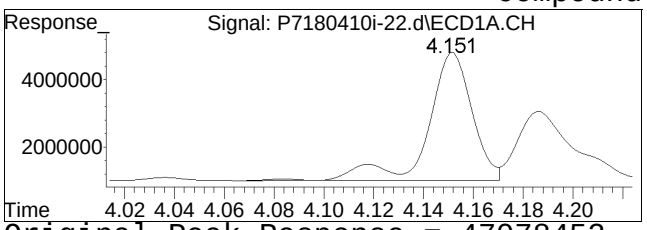


Original Peak Response = 35349090

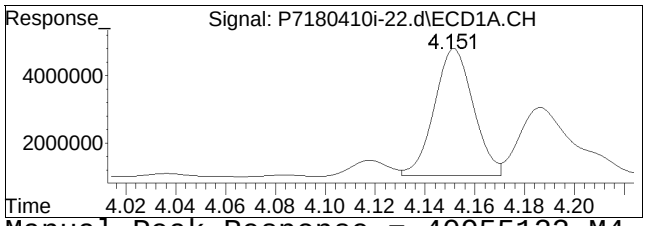


Manual Peak Response = 27555972 M4
M4 = Poor automated baseline construction.

Compound #17: 1254-1

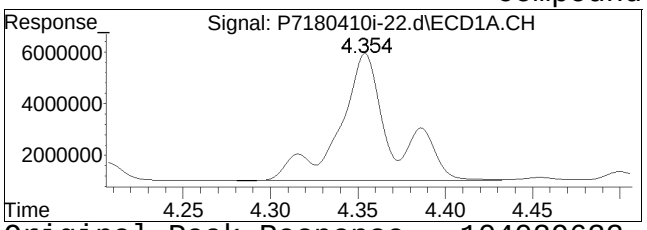


Original Peak Response = 47078452

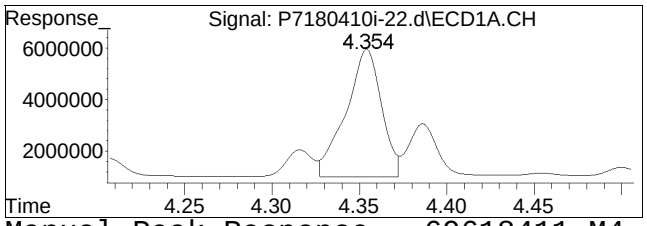


Manual Peak Response = 40955122 M4
M4 = Poor automated baseline construction.

Compound #18: 1254-2



Original Peak Response = 104029633



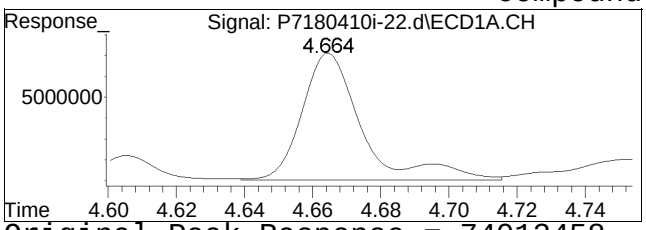
Manual Peak Response = 69618411 M4
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

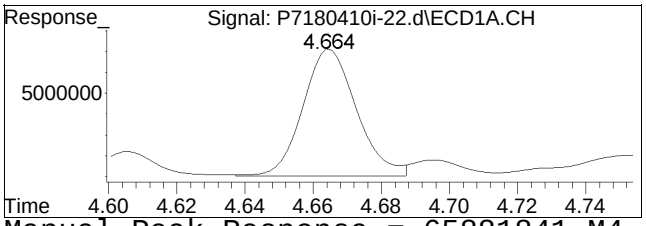
Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-22.d
Date Inj'd : 4/10/2018 8:21 pm
Sample : il22154,42e,,8307

QMethod : P7_pcb_04_10_18_ugL_IC
Operator : pest7:kb
Instrument : Pest 7
Quant Date : 5/18/2018 1:37 pm

Compound #19: 1254-3



Original Peak Response = 74013458



Manual Peak Response = 65881841 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-23.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 8:34 pm
Operator : pest7:kb
Sample : il32154,42e,,8306
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 13:35:59 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 13:28:26 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
13) i	2154_1br2nb	2.103	2.232	437.7E6	341.6E6	250.000	250.000
22) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
39) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-T...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
3) s	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
4) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-2			0	0	N.D.	N.D.
	Average 1016-2					0.000	0.000
8) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
9) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
14) l3	1221-1	2.692	3.076	23051404	18814240	1162.130	1155.952
15) l3	1221-2	2.792	3.187	14660333	12223705	1223.046M4	1206.180
16) l3	1221-3	2.821	3.236	51234361	42597950	1205.982M4	1172.468
	Sum 1221-1			88946099	73635894	3591.157	3534.600

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-23.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 8:34 pm
Operator : pest7:kb
Sample : il32154,42e,,8306
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 13:35:59 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 13:28:26 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1221-1					1197.052	1178.200
17) l4	1254-1	4.151	4.787	81277217	62346513	1129.056M4	1094.825
18) l4	1254-2	4.354	4.927	137.8E6	69268401	1124.122M4	1095.548
19) l4	1254-3	4.665	5.278	129.3E6	94908756	1106.438M4	1091.467
20) l4	1254-4	4.875	5.438	94860310	65452049	1088.573	1064.903
21) l4	1254-5	5.214	5.818	135.5E6	90159247	1077.802	1067.034
Sum	1254-1			578.8E6	382.1E6	N.D.	N.D.
Average	1254-1					1105.198	1082.755
23) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
24) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
28) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
29) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
34) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-23.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 8:34 pm
Operator : pest7:kb
Sample : il32154,42e,,8306
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 13:35:59 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 13:28:26 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
40) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
41) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
45) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
46) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

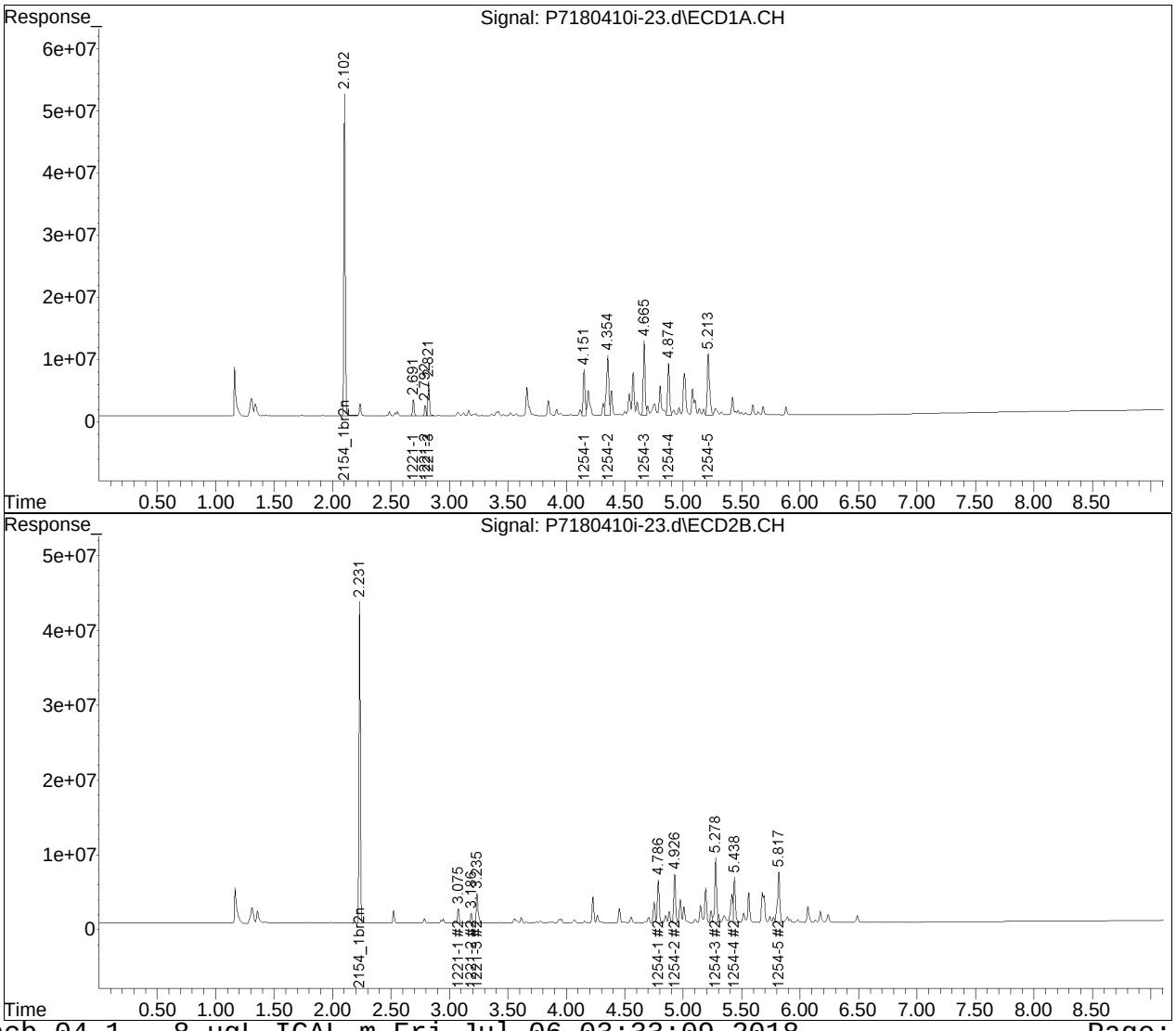
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-23.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 8:34 pm
Operator : pest7:kb
Sample : il32154,42e,,8306
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 13:35:59 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 13:28:26 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

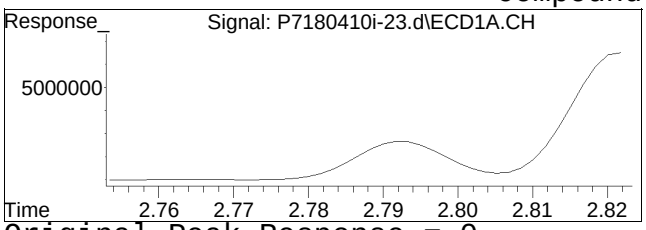


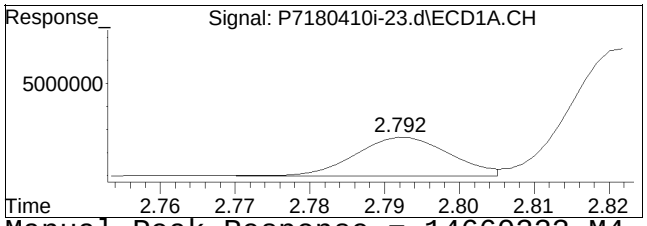
Manual Integration/Negative Proof Report

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-23.d
Date Inj'd : 4/10/2018 8:34 pm
Sample : il32154,42e,,8306

QMethod : P7_pcb_04_10_18_ugL_IC
Operator : pest7:kb
Instrument : Pest 7
Quant Date : 5/18/2018 1:31 pm

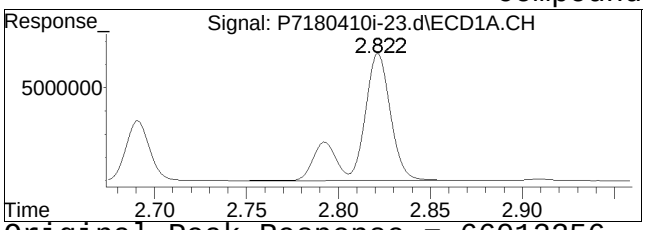
Compound #15: 1221-2

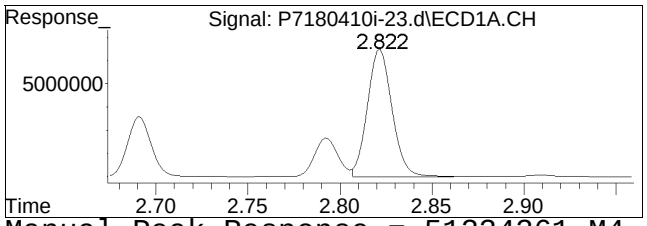




Original Peak Response = 0 Manual Peak Response = 14660333 M4
M4 = Poor automated baseline construction.

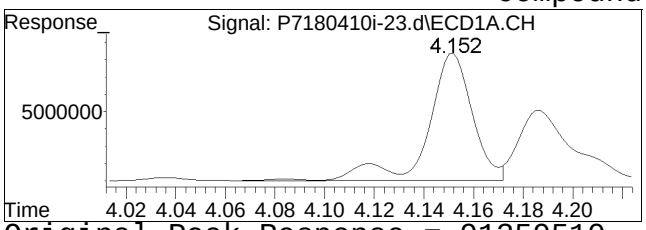
Compound #16: 1221-3

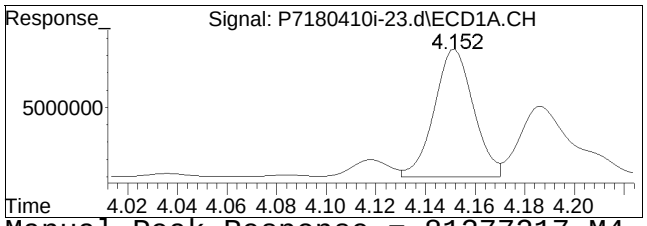




Original Peak Response = 66012356 Manual Peak Response = 51234361 M4
M4 = Poor automated baseline construction.

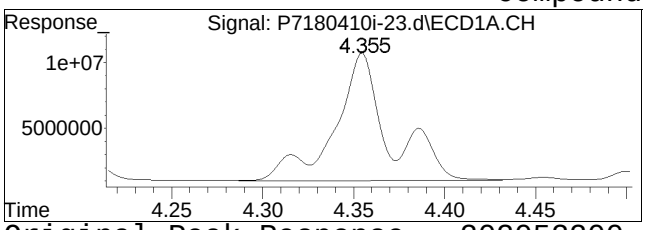
Compound #17: 1254-1

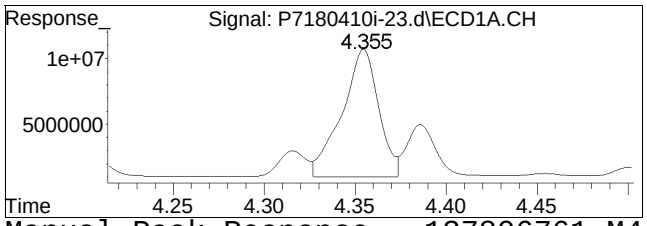




Original Peak Response = 91359510 Manual Peak Response = 81277217 M4
M4 = Poor automated baseline construction.

Compound #18: 1254-2





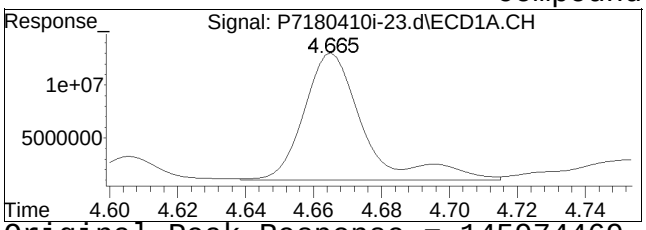
Original Peak Response = 202052200 Manual Peak Response = 137806761 M4
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

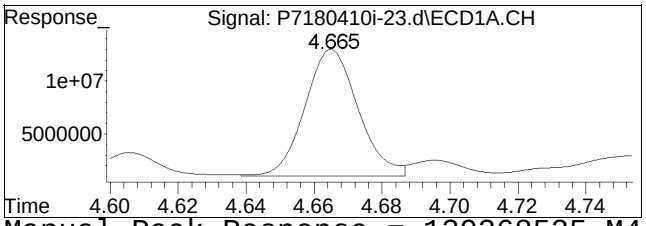
Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-23.d
Date Inj'd : 4/10/2018 8:34 pm
Sample : il32154,42e,,8306

QMethod : P7_pcb_04_10_18_ugL_IC
Operator : pest7:kb
Instrument : Pest 7
Quant Date : 5/18/2018 1:31 pm

Compound #19: 1254-3



Original Peak Response = 145974469



Manual Peak Response = 129268525 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-24.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 8:47 pm
Operator : pest7:kb
Sample : il42154,42e,,8305
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 13:20:27 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 13:20:05 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
13) i	2154_1br2nb	2.103	2.232	434.8E6	339.3E6	250.000	250.000
22) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
39) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-T...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
3) s	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
4) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-2			0	0	N.D.	N.D.
	Average 1016-2					0.000	0.000
8) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
9) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
14) l3	1221-1	2.692	3.076	52994537	42702133	2500.000	2500.000
15) l3	1221-2	2.793	3.187	32990936	27058536	2500.000M4	2500.000
16) l3	1221-3	2.822	3.236	119.2E6	96478138	2500.000M4	2500.000
	Sum 1221-1			205.2E6	166.2E6	7500.000	7500.000

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-24.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 8:47 pm
Operator : pest7:kb
Sample : il42154,42e,,8305
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 13:20:27 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 13:20:05 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1221-1					2500.000	2500.000
17) l4	1254-1	4.152	4.786	189.3E6	149.2E6	2500.000M4	2500.000M4
18) l4	1254-2	4.355	4.926	321.8E6	165.0E6	2500.000M4	2500.000M4
19) l4	1254-3	4.665	5.277	307.8E6	226.2E6	2500.000M4	2500.000M4
20) l4	1254-4	4.874	5.438	223.9E6	156.3E6	2500.000M4	2500.000M4
21) l4	1254-5	5.213	5.817	328.2E6	212.7E6	2500.000M4	2500.000M4
Sum	1254-1			1371.0E6	909.5E6	N.D.	N.D.
Average	1254-1					2500.000	2500.000
23) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
24) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
28) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
29) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
34) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-24.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 8:47 pm
Operator : pest7:kb
Sample : il42154,42e,,8305
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 13:20:27 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 13:20:05 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
36) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
40) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
41) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
45) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
46) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

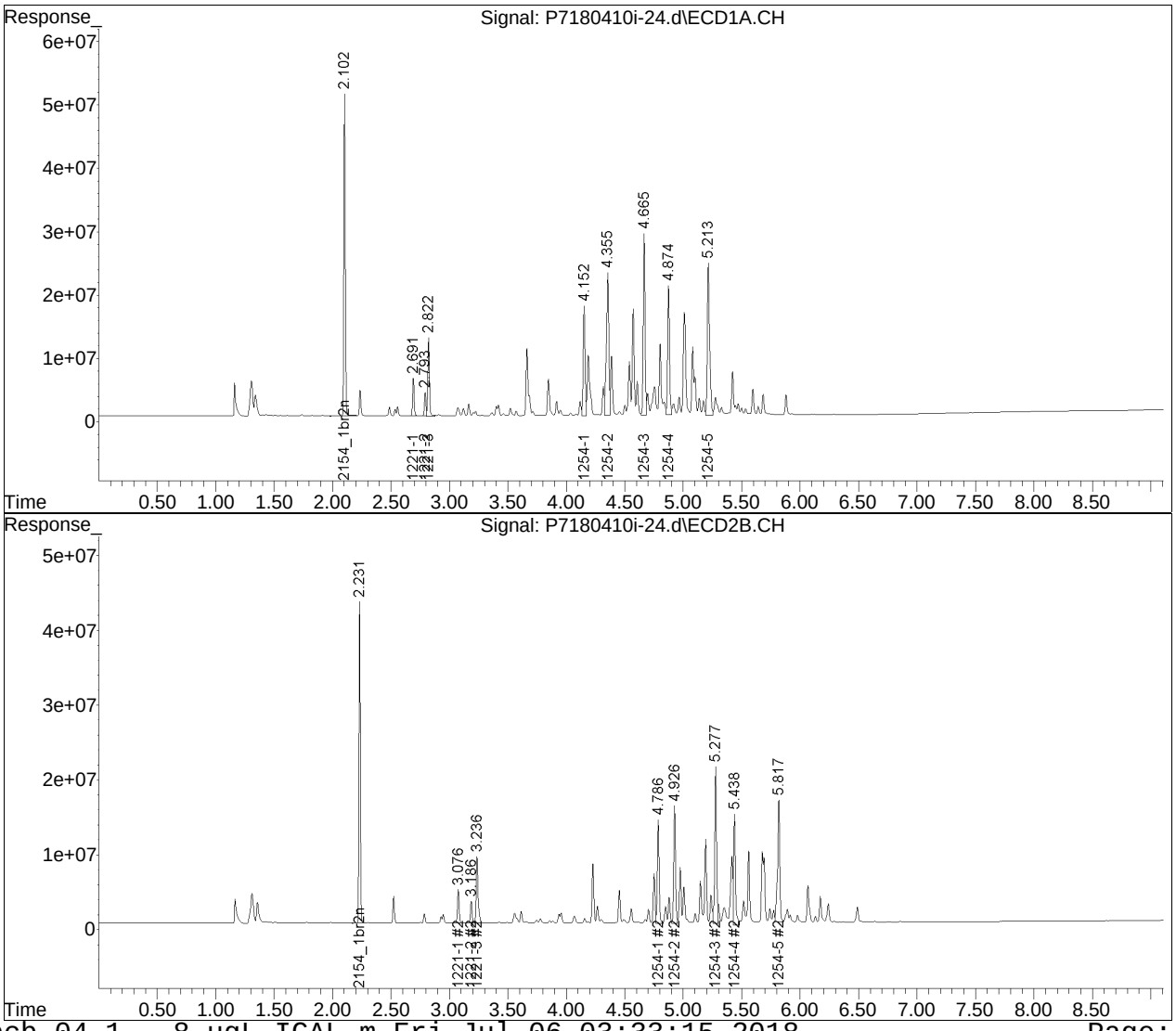
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-24.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 8:47 pm
Operator : pest7:kb
Sample : il42154,42e,,8305
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 23 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 13:20:27 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 13:20:05 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

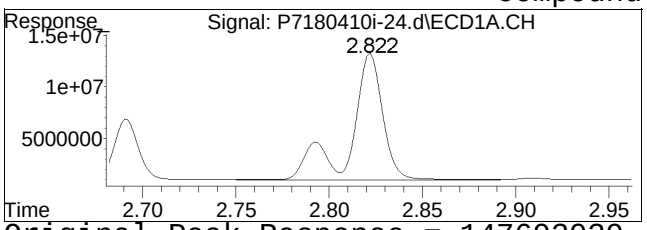


Manual Integration/Negative Proof Report

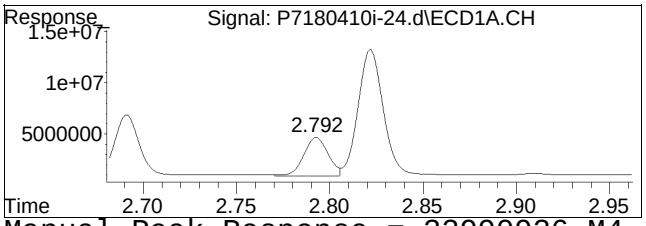
Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-24.d
Date Inj'd : 4/10/2018 8:47 pm
Sample : il42154,42e,,8305

QMethod : P7_pcb_04_10_18_ugL_IC
Operator : pest7:kb
Instrument : Pest 7
Quant Date : 5/18/2018 1:20 pm

Compound #15: 1221-2

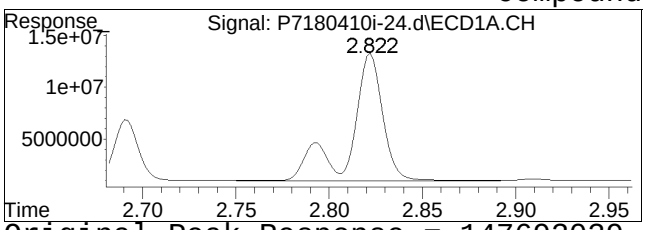


Original Peak Response = 147693039

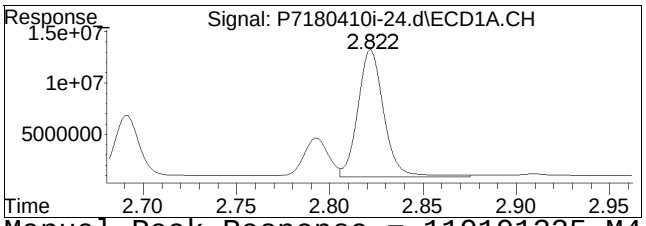


Manual Peak Response = 32990936 M4
M4 = Poor automated baseline construction.

Compound #16: 1221-3

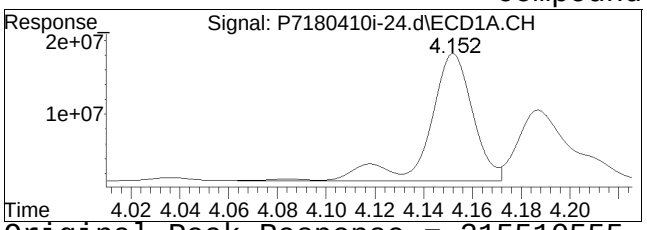


Original Peak Response = 147693039

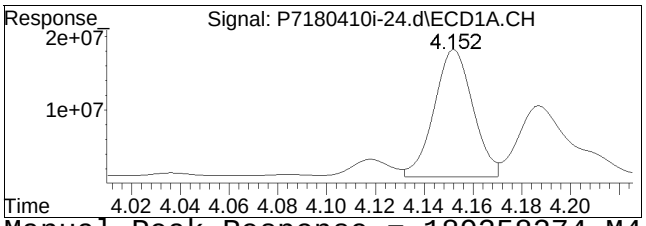


Manual Peak Response = 119191325 M4
M4 = Poor automated baseline construction.

Compound #17: 1254-1

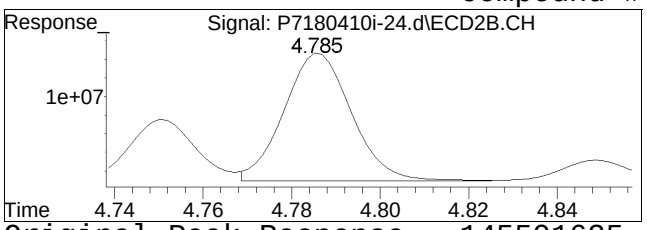


Original Peak Response = 215510555

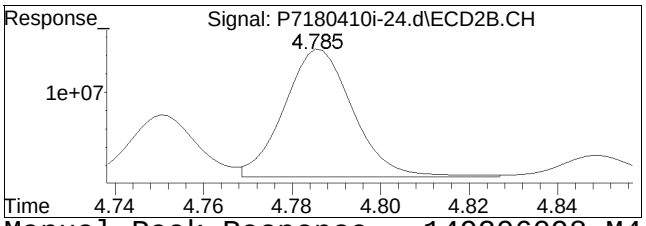


Manual Peak Response = 189258274 M4
M4 = Poor automated baseline construction.

Compound #67: 1254-1 #2



Original Peak Response = 145591625



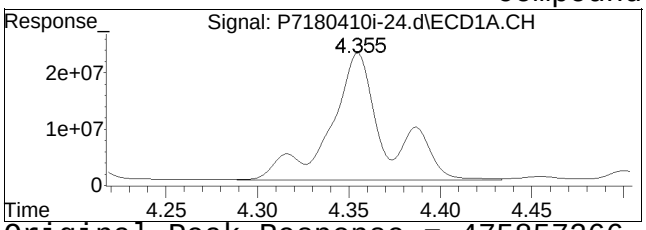
Manual Peak Response = 149206098 M4
M4 = Poor automated baseline construction.

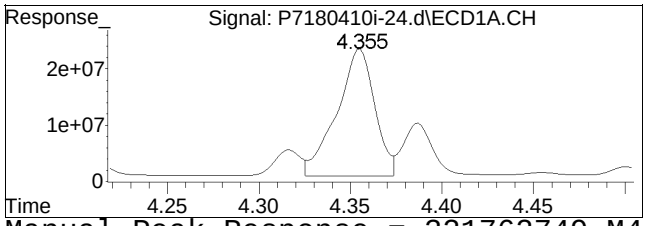
Manual Integration/Negative Proof Report

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-24.d
Date Inj'd : 4/10/2018 8:47 pm
Sample : il42154,42e,,8305

QMethod : P7_pcb_04_10_18_ugL_IC
Operator : pest7:kb
Instrument : Pest 7
Quant Date : 5/18/2018 1:20 pm

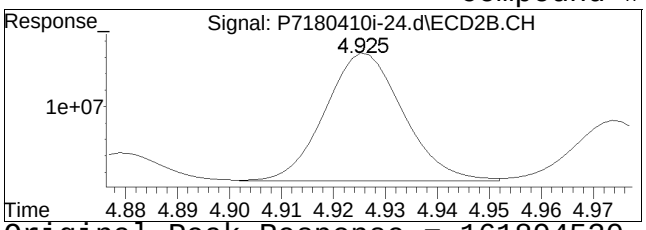
Compound #18: 1254-2

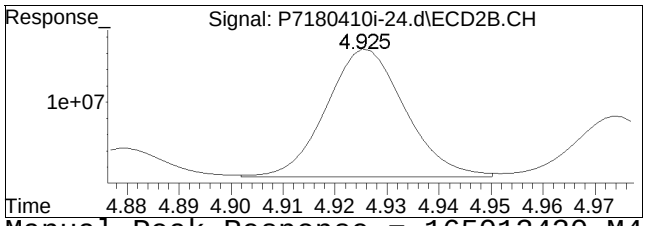




Original Peak Response = 475857266 Manual Peak Response = 321762749 M4
M4 = Poor automated baseline construction.

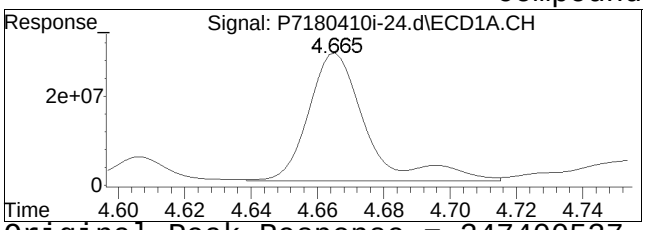
Compound #68: 1254-2 #2

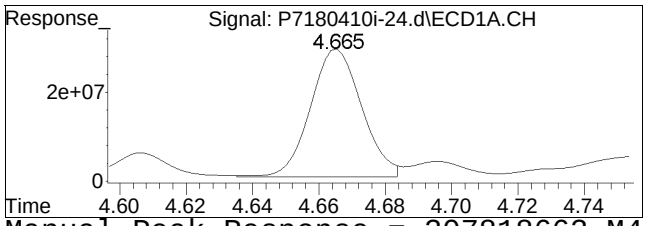




Original Peak Response = 161894530 Manual Peak Response = 165013430 M4
M4 = Poor automated baseline construction.

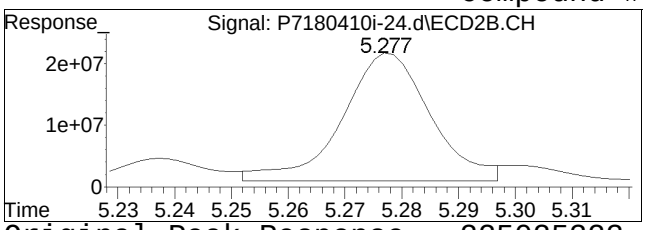
Compound #19: 1254-3

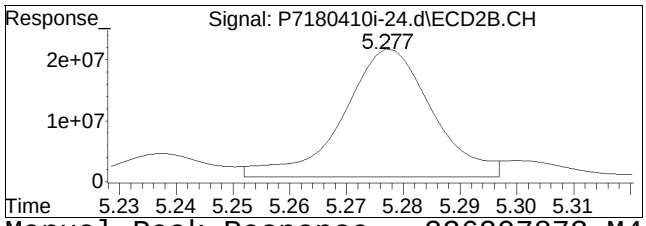




Original Peak Response = 347400537 Manual Peak Response = 307818663 M4
M4 = Poor automated baseline construction.

Compound #69: 1254-3 #2





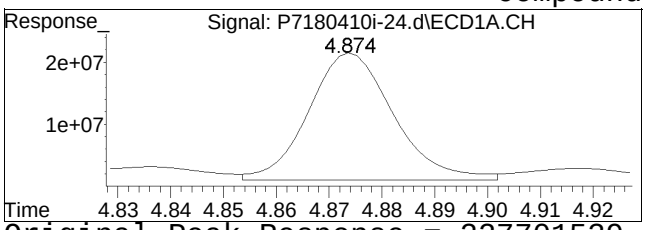
Original Peak Response = 225025323 Manual Peak Response = 226207873 M4
M4 = Poor automated baseline construction.

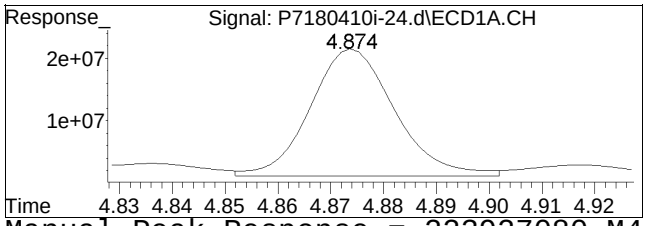
Manual Integration/Negative Proof Report

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-24.d
Date Inj'd : 4/10/2018 8:47 pm
Sample : il42154,42e,,8305

QMethod : P7_pcb_04_10_18_ugL_IC
Operator : pest7:kb
Instrument : Pest 7
Quant Date : 5/18/2018 1:20 pm

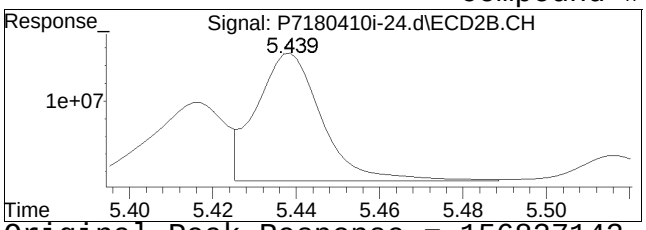
Compound #20: 1254-4

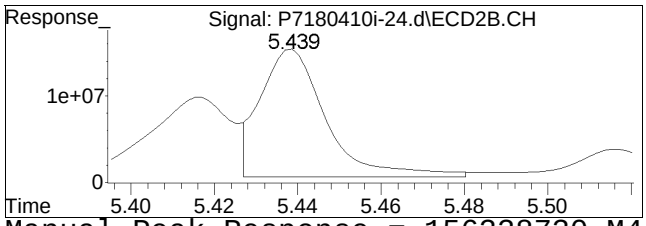




Original Peak Response = 227701539 Manual Peak Response = 223927080 M4
M4 = Poor automated baseline construction.

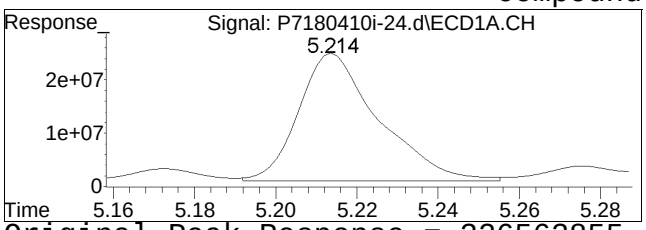
Compound #70: 1254-4 #2

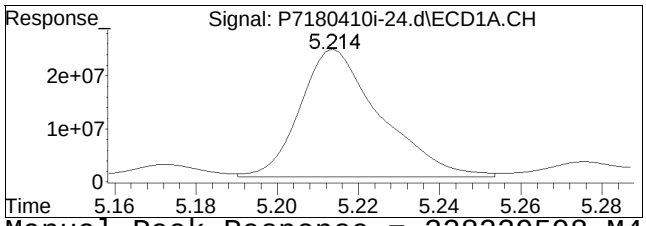




Original Peak Response = 156837143 Manual Peak Response = 156338730 M4
M4 = Poor automated baseline construction.

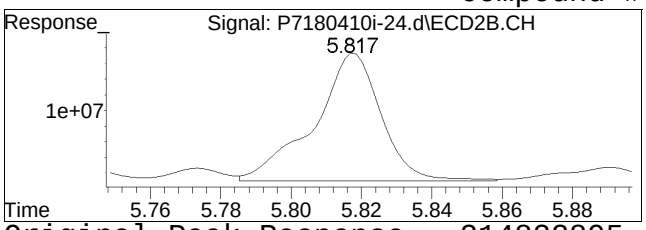
Compound #21: 1254-5

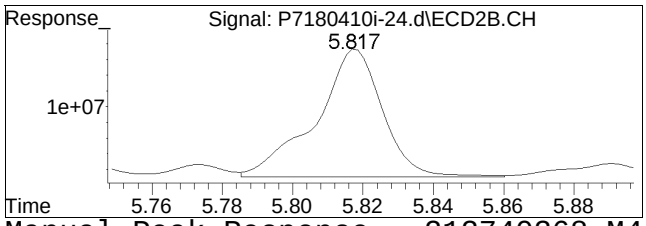




Original Peak Response = 326563855 Manual Peak Response = 328239598 M4
M4 = Poor automated baseline construction.

Compound #71: 1254-5 #2





Original Peak Response = 214822895 Manual Peak Response = 212740368 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-25.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 8:59 pm
Operator : pest7:kb
Sample : il52154,42e,,8304
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 13:24:42 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 13:20:33 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
13) i	2154_1br2nb	2.103	2.232	441.8E6	337.2E6	250.000	250.000
22) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
39) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-T...	0.000	0.000	0	0	N.D. d	N.D. d
Spiked Amount	500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
3) s	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
Spiked Amount	500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
4) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016-2			0	0	N.D.	N.D.
Average	1016-2					0.000	0.000
8) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
9) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260-1			0	0	N.D.	N.D.
Average	1260-1					0.000	0.000
14) l3	1221-1	2.692	3.076	100.0E6	80605504	4644.316	4748.994
15) l3	1221-2	2.792	3.187	60450853	50118546	4507.944M4	4659.944
16) l3	1221-3	2.821	3.236	210.4E6	179.9E6	4341.919M4	4690.658
Sum	1221-1			370.8E6	310.6E6	13494.179	14099.597

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-25.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 8:59 pm
Operator : pest7:kb
Sample : il52154,42e,,8304
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 13:24:42 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 13:20:33 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1221-1					4498.060	4699.866
17) l4	1254-1	4.151	4.787	364.1E6	279.9E6	4732.618M4	4719.945
18) l4	1254-2	4.354	4.926	631.8E6	311.7E6	4830.611M4	4752.068
19) l4	1254-3	4.664	5.278	594.1E6	429.2E6	4748.380M4	4773.368M4
20) l4	1254-4	4.874	5.438	443.9E6	305.9E6	4877.224	4922.001
21) l4	1254-5	5.215	5.818	636.6E6	421.9E6	4771.596	4989.327
Sum	1254-1			2670.5E6	1748.5E6	N.D.	N.D.
Average	1254-1					4792.086	4831.342
23) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
24) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
28) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
29) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
34) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-25.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 8:59 pm
Operator : pest7:kb
Sample : il52154,42e,,8304
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 13:24:42 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 13:20:33 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound		RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1248-1					0.000	0.000
40) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
41) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
45) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
46) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

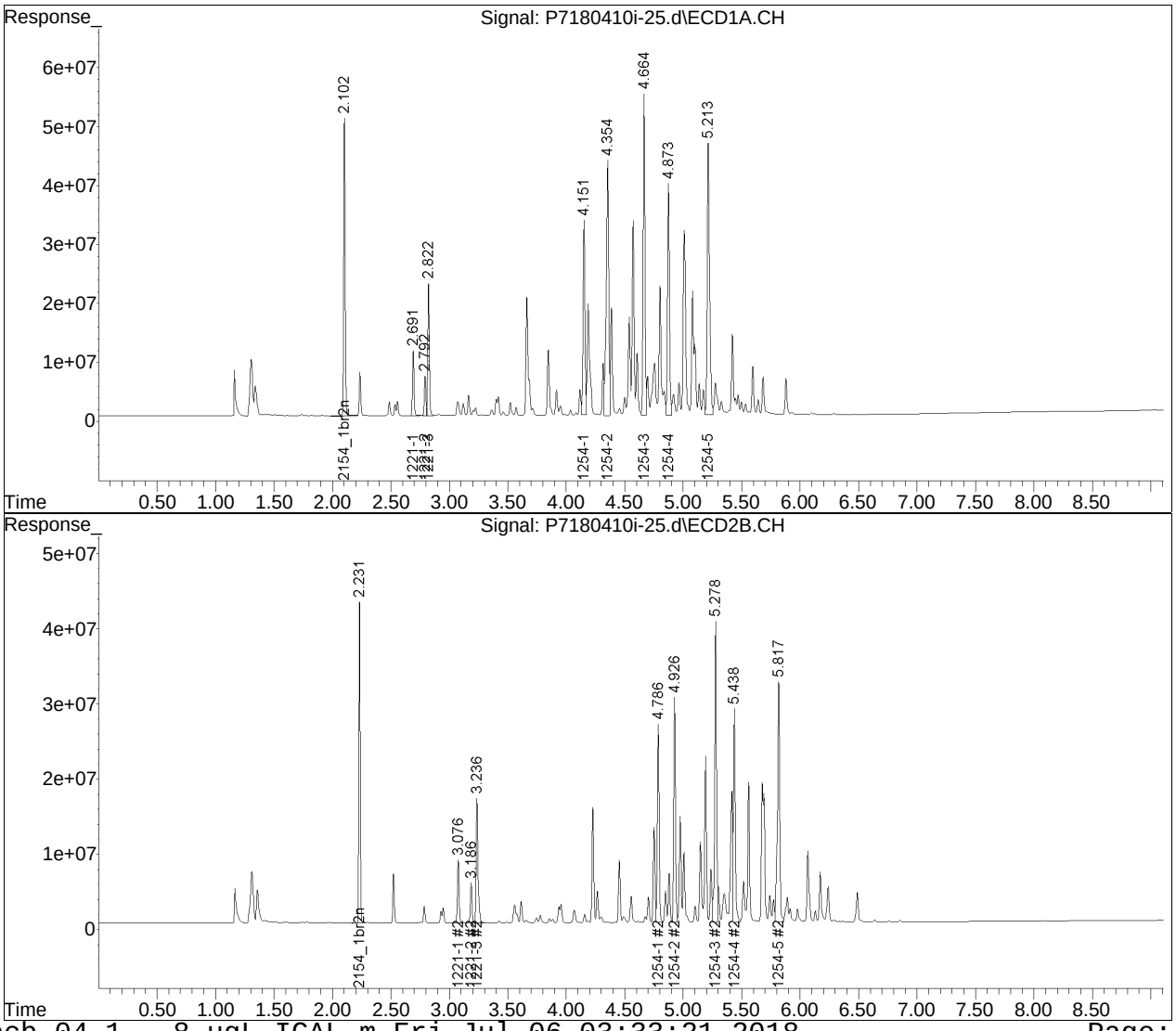
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-25.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 8:59 pm
Operator : pest7:kb
Sample : il52154,42e,,8304
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 13:24:42 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 13:20:33 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

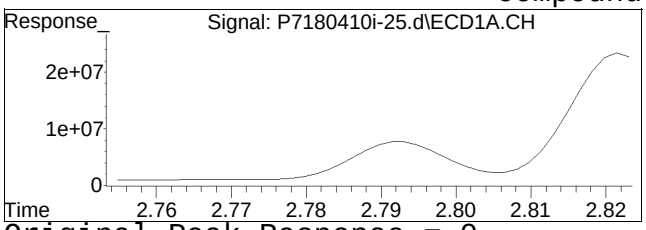


Manual Integration/Negative Proof Report

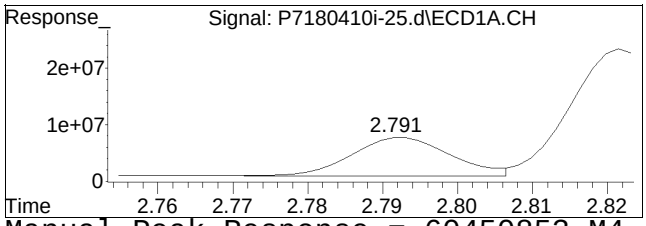
Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-25.d
Date Inj'd : 4/10/2018 8:59 pm
Sample : il52154,42e,,8304

QMethod : P7_pcb_04_10_18_ugL_IC
Operator : pest7:kb
Instrument : Pest 7
Quant Date : 5/18/2018 1:23 pm

Compound #15: 1221-2



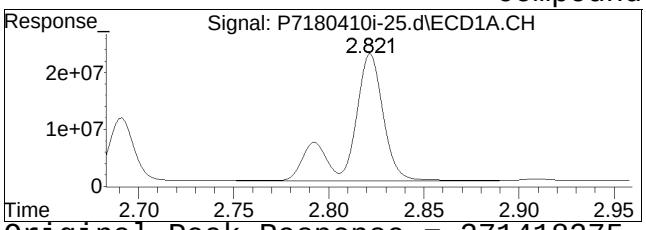
Original Peak Response = 0



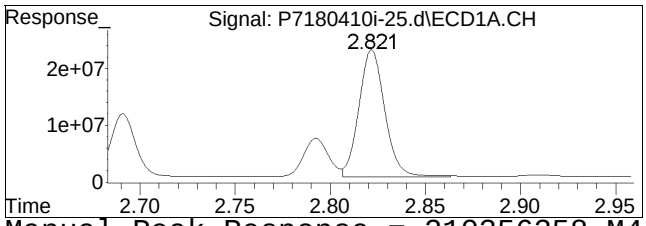
Manual Peak Response = 60450853 M4

M4 = Poor automated baseline construction.

Compound #16: 1221-3



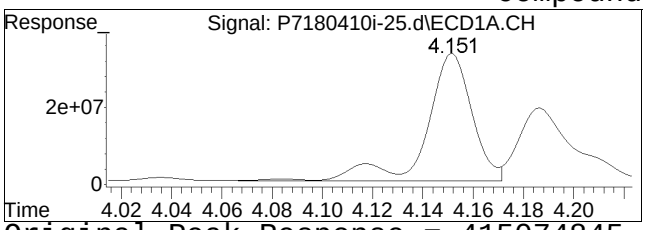
Original Peak Response = 271418275



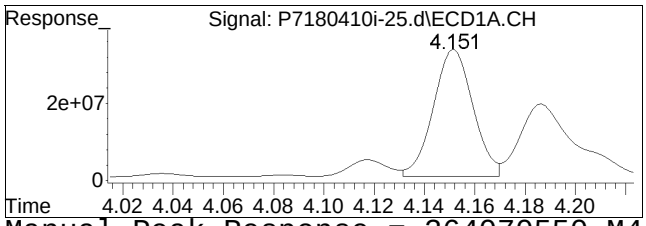
Manual Peak Response = 210356358 M4

M4 = Poor automated baseline construction.

Compound #17: 1254-1



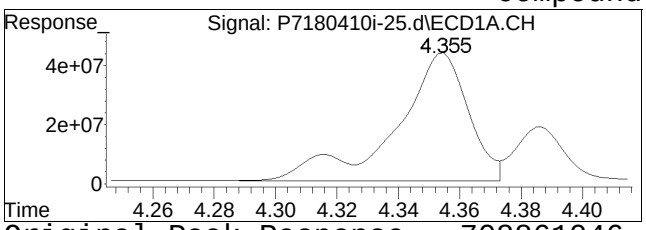
Original Peak Response = 415074845



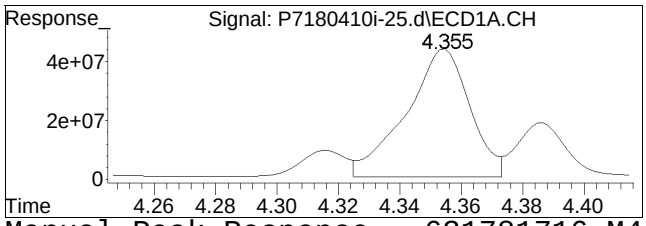
Manual Peak Response = 364070550 M4

M4 = Poor automated baseline construction.

Compound #18: 1254-2



Original Peak Response = 708861046



Manual Peak Response = 631781716 M4

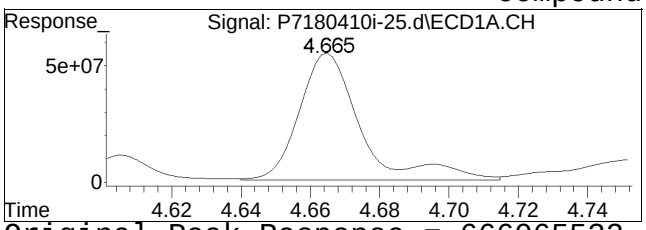
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

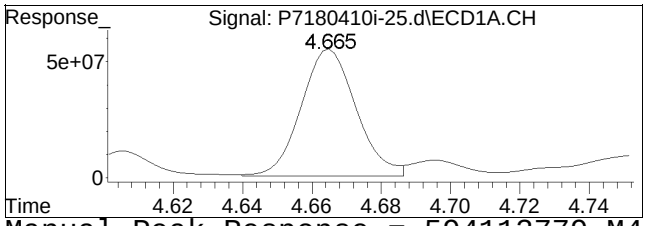
Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-25.d
Date Inj'd : 4/10/2018 8:59 pm
Sample : il52154,42e,,8304

QMethod : P7_pcb_04_10_18_ugL_IC
Operator : pest7:kb
Instrument : Pest 7
Quant Date : 5/18/2018 1:23 pm

Compound #19: 1254-3

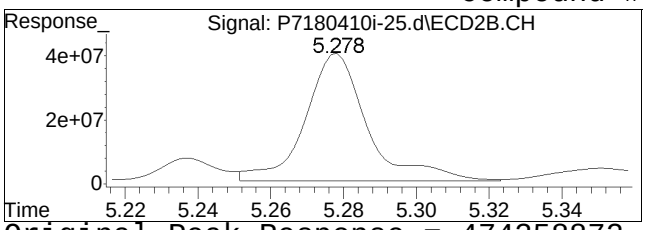


Original Peak Response = 666065532

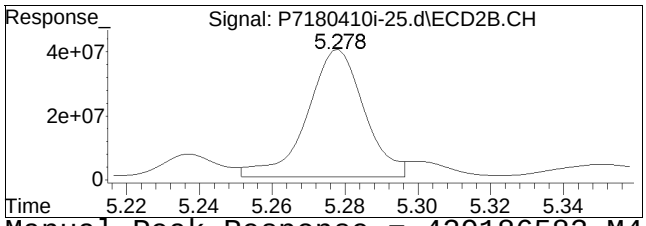


Manual Peak Response = 594113779 M4
M4 = Poor automated baseline construction.

Compound #69: 1254-3 #2



Original Peak Response = 474358872



Manual Peak Response = 429186583 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-26.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 9:12 pm
Operator : pest7:kb
Sample : il62154,42e,,8303
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 13:28:12 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 13:24:53 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
13) i	2154_1br2nb	2.103	2.232	434.3E6	331.5E6	250.000	250.000
22) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
39) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-T...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
3) s	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
4) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-2			0	0	N.D.	N.D.
	Average 1016-2					0.000	0.000
8) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
9) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
14) l3	1221-1	2.692	3.076	182.0E6	148.5E6	8912.158	9125.800
15) l3	1221-2	2.792	3.186	106.1E6	90751297	8468.199M4	8883.672
16) l3	1221-3	2.822	3.236	374.8E6	327.0E6	8423.660M4	8949.838
	Sum 1221-1			663.0E6	566.3E6	25804.016	26959.311

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-26.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 9:12 pm
Operator : pest7:kb
Sample : il62154,42e,,8303
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 13:28:12 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 13:24:53 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1221-1					8601.339	8986.437
17) l4	1254-1	4.152	4.786	670.9E6	524.4E6	9114.484M4	9252.139
18) l4	1254-2	4.355	4.926	1121.4E6	583.0E6	8872.276M4	9270.373
19) l4	1254-3	4.665	5.277	1079.8E6	803.7E6	9005.370M4	9301.122M4
20) l4	1254-4	4.875	5.438	826.5E6	577.0E6	9351.182	9518.062
21) l4	1254-5	5.214	5.817	1180.3E6	799.0E6	9209.405	9620.102
Sum	1254-1			4878.9E6	3287.1E6	N.D.	N.D.
Average	1254-1					9110.544	9392.360
23) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
24) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
28) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
29) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
34) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-26.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 9:12 pm
Operator : pest7:kb
Sample : il62154,42e,,8303
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 13:28:12 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 13:24:53 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound		RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1248-1					0.000	0.000
40) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
41) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
45) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
46) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

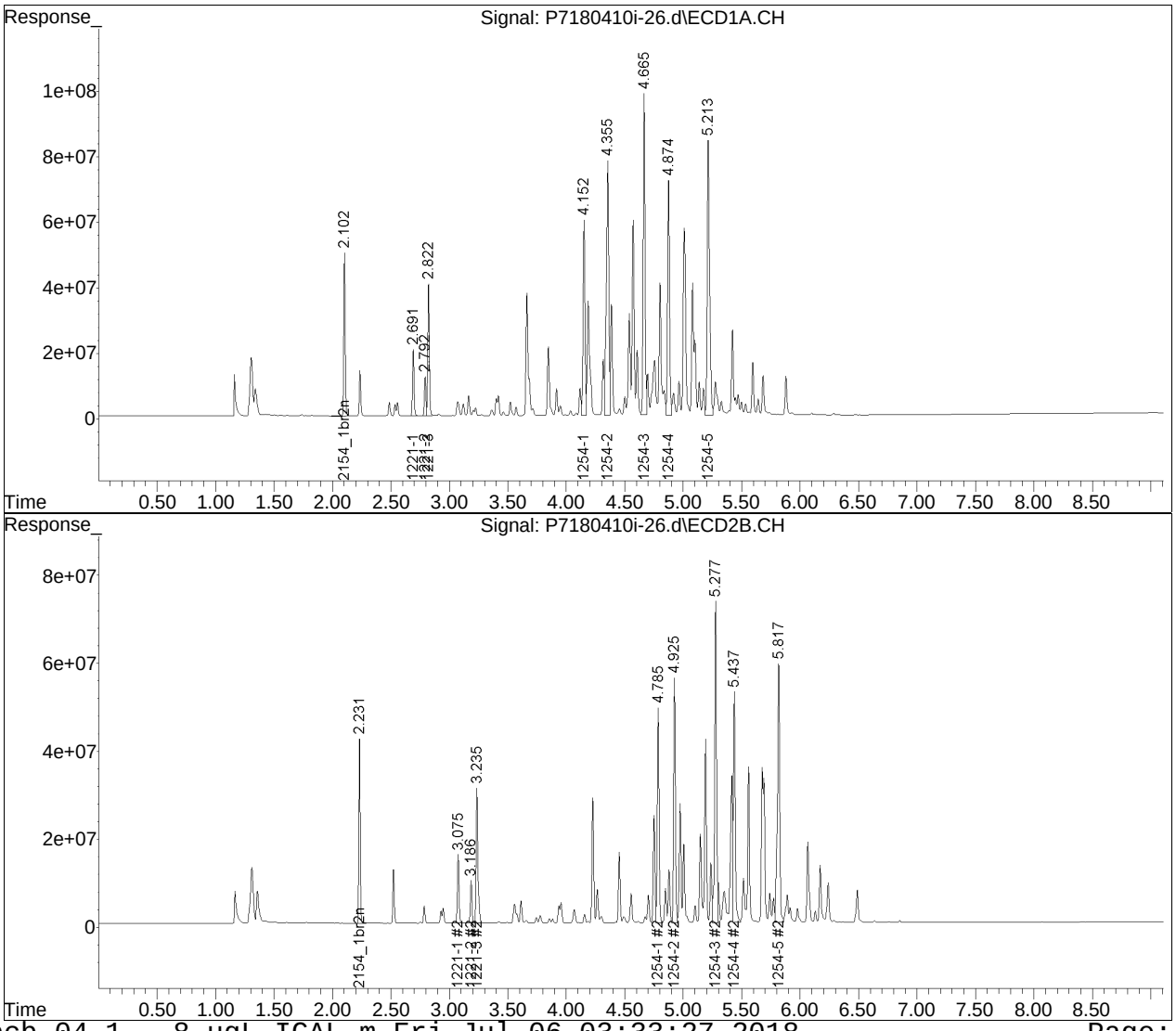
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-26.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 9:12 pm
Operator : pest7:kb
Sample : il62154,42e,,8303
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 13:28:12 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 13:24:53 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

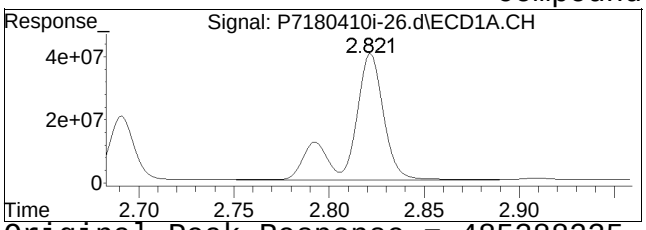


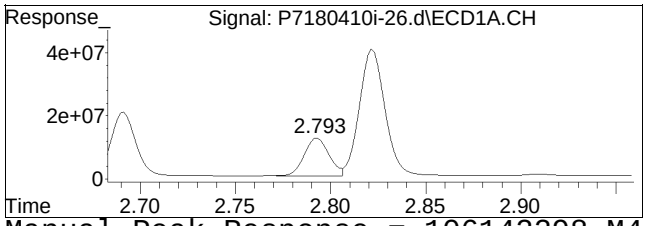
Manual Integration/Negative Proof Report

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-26.d
Date Inj'd : 4/10/2018 9:12 pm
Sample : il62154,42e,,8303

QMethod : P7_pcb_04_10_18_ugL_IC
Operator : pest7:kb
Instrument : Pest 7
Quant Date : 5/18/2018 1:25 pm

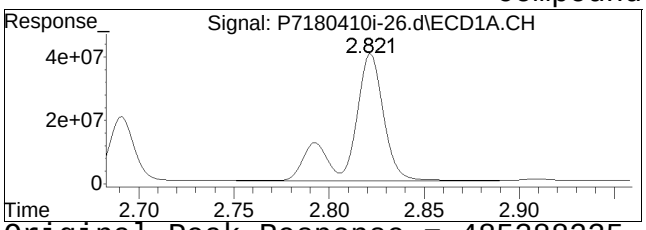
Compound #15: 1221-2

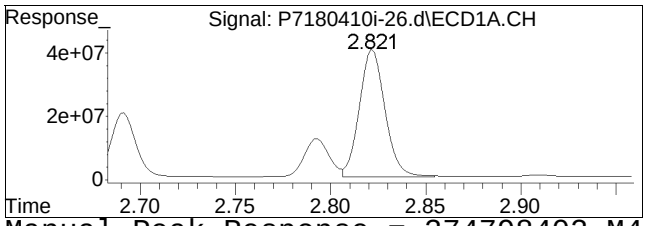




Original Peak Response = 485388235 Manual Peak Response = 106142298 M4
M4 = Poor automated baseline construction.

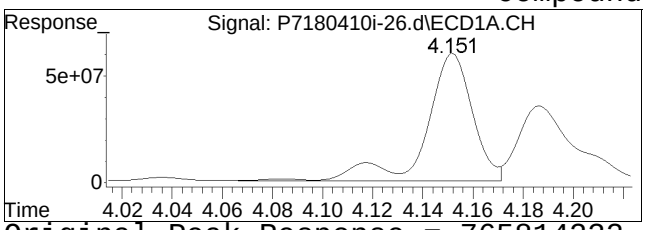
Compound #16: 1221-3

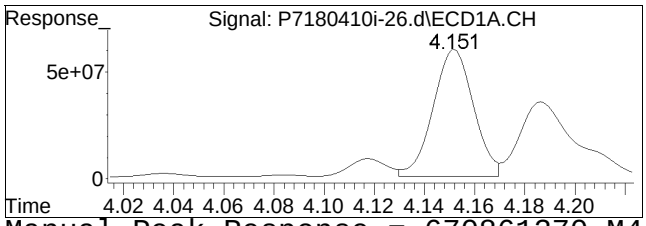




Original Peak Response = 485388235 Manual Peak Response = 374798402 M4
M4 = Poor automated baseline construction.

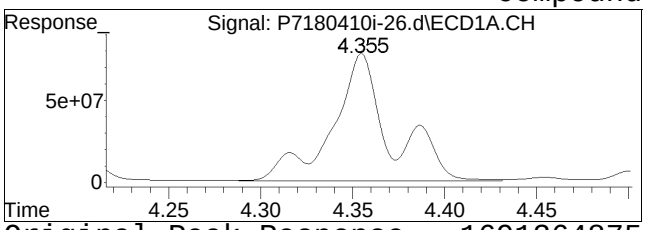
Compound #17: 1254-1

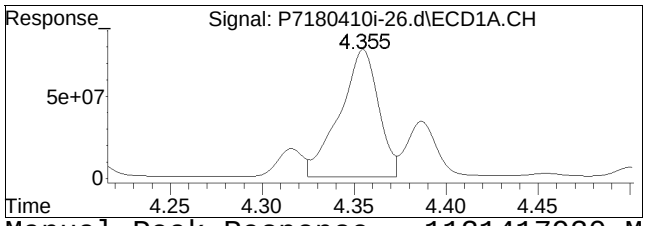




Original Peak Response = 765814232 Manual Peak Response = 670861370 M4
M4 = Poor automated baseline construction.

Compound #18: 1254-2





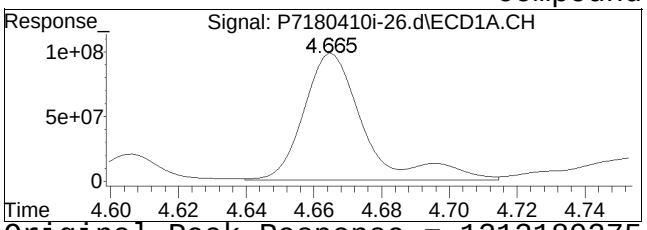
Original Peak Response = 1691364875 Manual Peak Response = 1121417930 M4
M4 = Poor automated baseline construction.

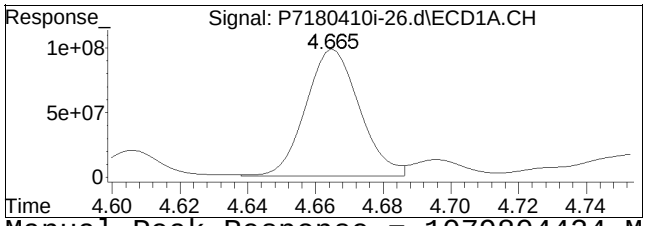
Manual Integration/Negative Proof Report

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-26.d
Date Inj'd : 4/10/2018 9:12 pm
Sample : il62154,42e,,8303

QMethod : P7_pcb_04_10_18_ugL_IC
Operator : pest7:kb
Instrument : Pest 7
Quant Date : 5/18/2018 1:25 pm

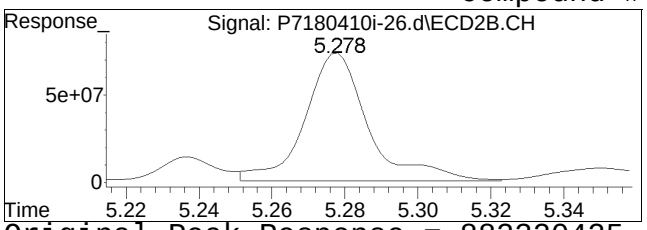
Compound #19: 1254-3

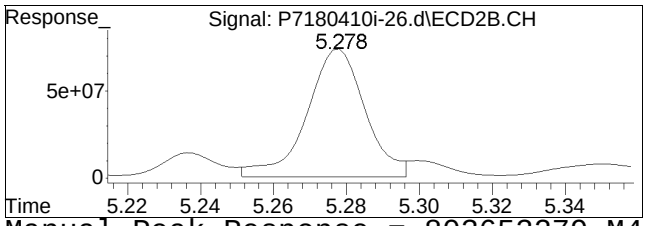




Original Peak Response = 1213180275 Manual Peak Response = 1079804424 M4
M4 = Poor automated baseline construction.

Compound #69: 1254-3 #2





Original Peak Response = 882320425 Manual Peak Response = 803653279 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-27.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 9:25 pm
Operator : pest7:kb
Sample : il11660,42e,,8235
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 26 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 10:36:28 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 10:26:20 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	2.103	2.232	428.0E6	335.0E6	250.000	250.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-T...	2.584	2.867	14291842	10904979	7.069	7.223
	Spiked Amount 500.000	Range 30 - 150		Recovery =		1.41%#	1.44%#
3) s	Decachlor...	6.597	7.237	20702305	15435098	15.379	16.130
	Spiked Amount 500.000	Range 30 - 150		Recovery =		3.08%#	3.23%#
	Target Compounds						
4) l1	1016-1	2.821	3.236	4835812	4169568	135.399M4	144.716
5) l1	1016-2	3.070	3.562	10678049	8550055	134.121M4	132.010
6) l1	1016-3	3.418	3.955	10461515	8654159	116.373M4	121.019
7) l1	1016-4	3.521	4.069	8071168	5968562	124.953M4	124.753
8) l1	1016-5	3.846	4.453	6962441	5131928	129.534M4	131.643
	Sum 1016-1			41008985	32474272	640.379	654.141
	Average 1016-1					128.076	130.828
9) l2	1260-1	4.802	5.416	12881941	9336292	131.175	136.757M4
10) l2	1260-2	5.006	5.559	18492055	10578597	131.263M4	133.874
11) l2	1260-3	5.469	6.081	10700647	8282168	116.556	128.550
12) l2	1260-4	5.683	6.240	22714950	15353436	110.778	118.378
13) l2	1260-5	5.879	6.487	15077183	10891842	113.606	120.890
	Sum 1260-1			79866775	54442336	NoCal	NoCal
	Average 1260-1					120.676	127.690
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-27.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 9:25 pm
Operator : pest7:kb
Sample : il11660,42e,,8235
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 26 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 10:36:28 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 10:26:20 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Sum 1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1248-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-27.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 9:25 pm
Operator : pest7:kb
Sample : il11660,42e,,8235
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 26 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 10:36:28 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 10:26:20 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

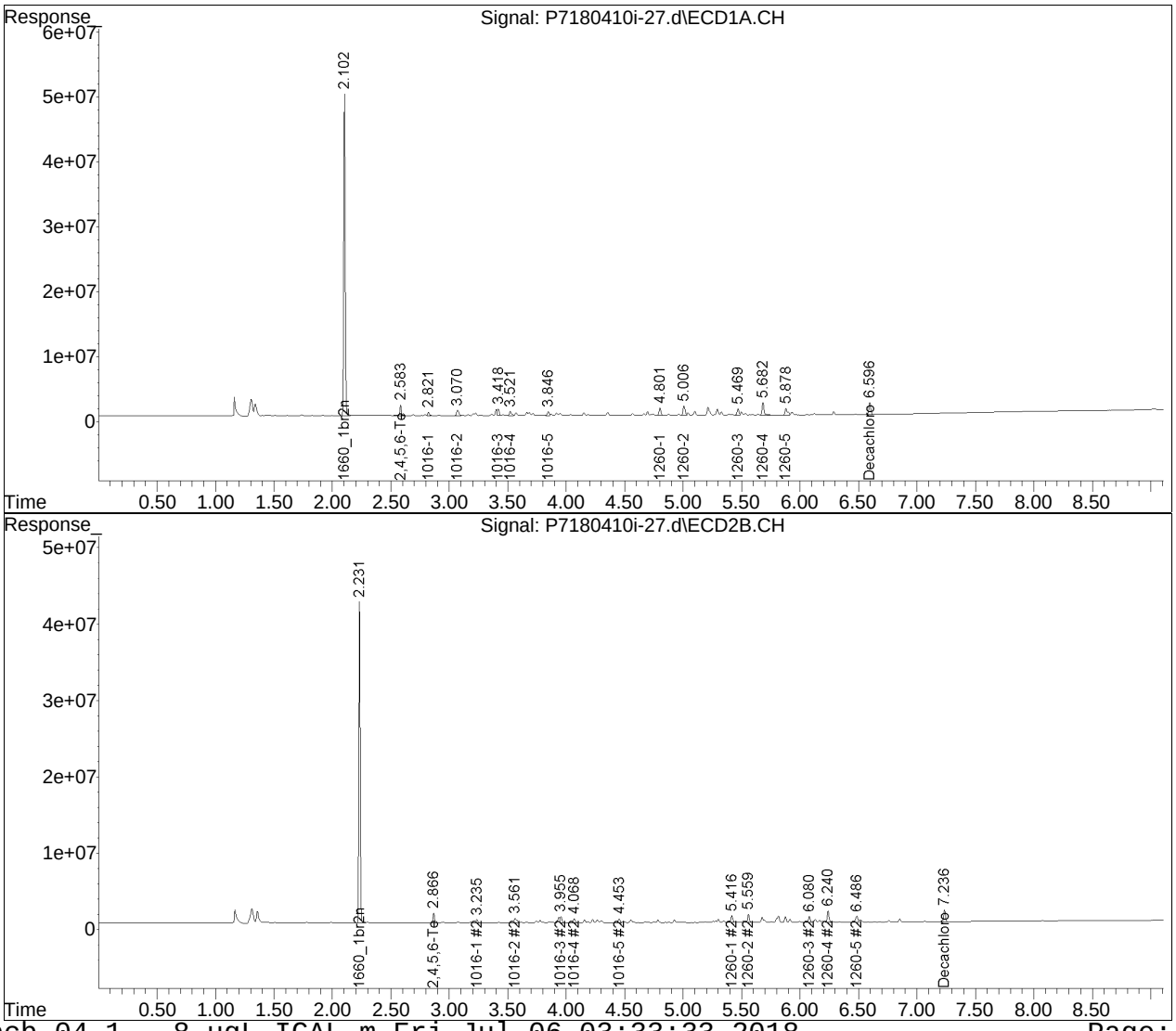
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-27.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 9:25 pm
Operator : pest7:kb
Sample : il11660,42e,,8235
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 26 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 10:36:28 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 10:26:20 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

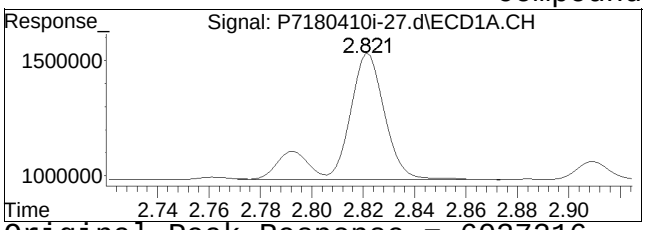


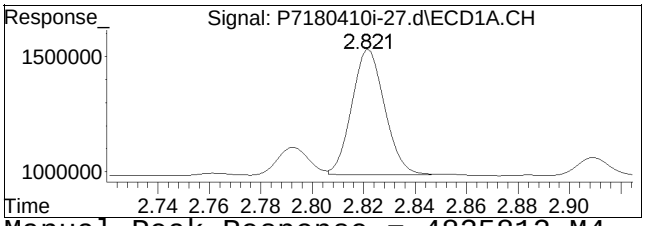
Manual Integration/Negative Proof Report

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-27.d
Date Inj'd : 4/10/2018 9:25 pm
Sample : il11660,42e,,8235

QMethod : P7_pcb_04_10_18_ugL_IC
Operator : pest7:kb
Instrument : Pest 7
Quant Date : 5/18/2018 10:26 am

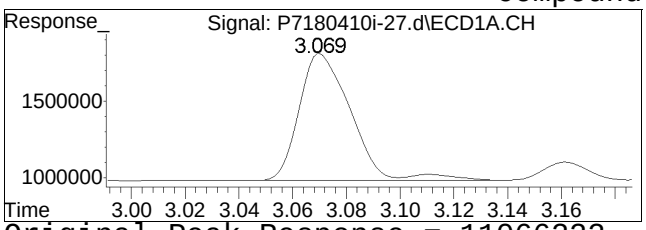
Compound #4: 1016-1

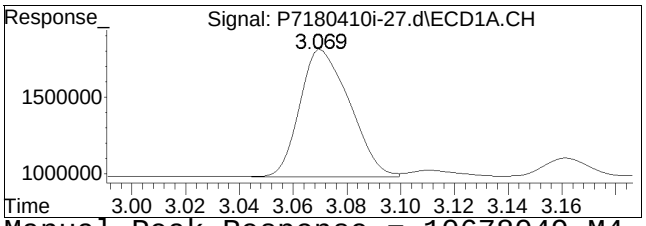




Original Peak Response = 6037216 Manual Peak Response = 4835812 M4
M4 = Poor automated baseline construction.

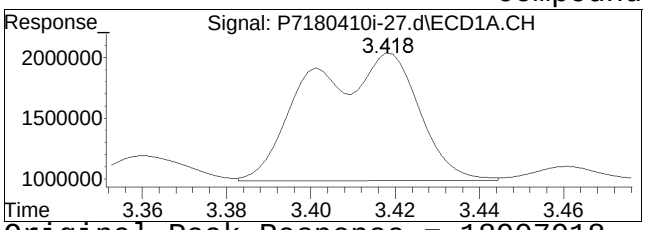
Compound #5: 1016-2

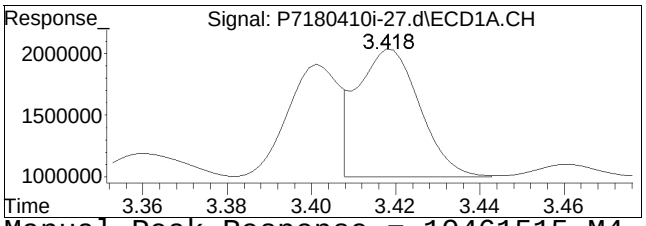




Original Peak Response = 11066222 Manual Peak Response = 10678049 M4
M4 = Poor automated baseline construction.

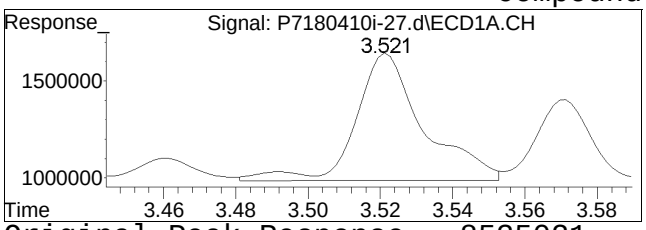
Compound #6: 1016-3

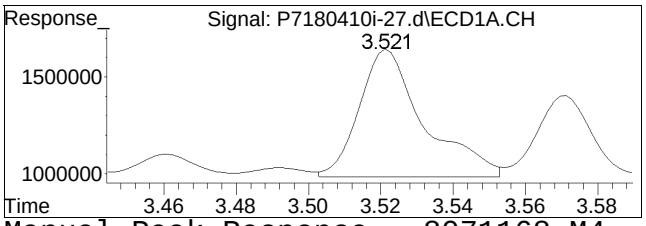




Original Peak Response = 18907918 Manual Peak Response = 10461515 M4
M4 = Poor automated baseline construction.

Compound #7: 1016-4





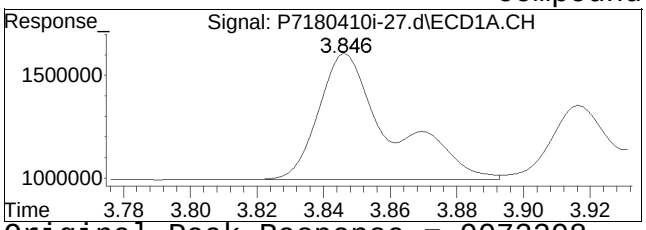
Original Peak Response = 8535021 Manual Peak Response = 8071168 M4
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

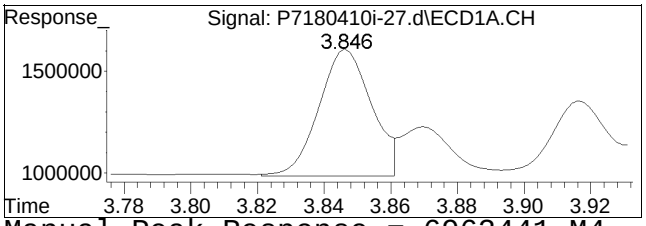
Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-27.d
Date Inj'd : 4/10/2018 9:25 pm
Sample : il11660,42e,,8235

QMethod : P7_pcb_04_10_18_ugL_IC
Operator : pest7:kb
Instrument : Pest 7
Quant Date : 5/18/2018 10:26 am

Compound #8: 1016-5



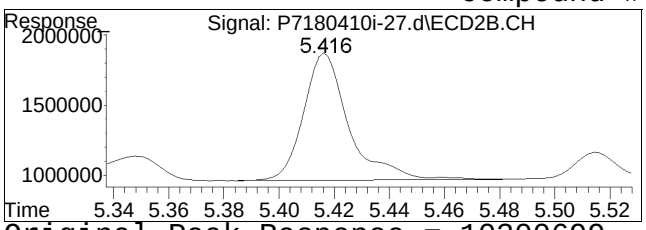
Original Peak Response = 9072298



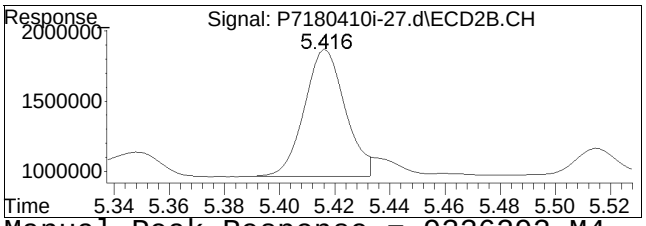
Manual Peak Response = 6962441 M4

M4 = Poor automated baseline construction.

Compound #60: 1260-1 #2



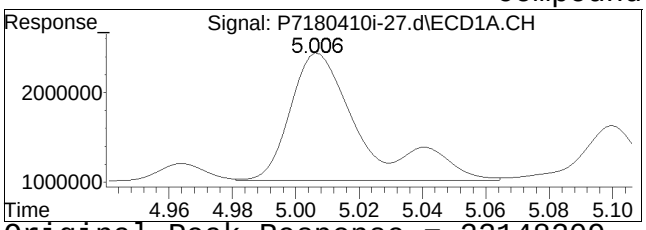
Original Peak Response = 10300699



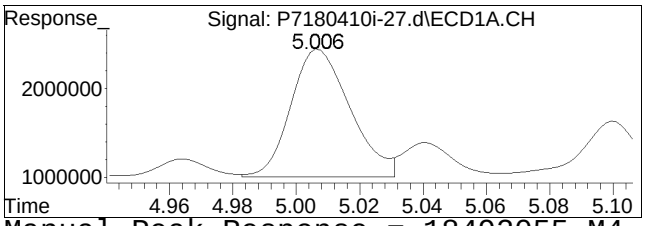
Manual Peak Response = 9336292 M4

M4 = Poor automated baseline construction.

Compound #10: 1260-2



Original Peak Response = 22148209



Manual Peak Response = 18492055 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-28.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 9:38 pm
Operator : pest7:kb
Sample : il21660,42e,,8234
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 27 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 10:26:10 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 10:16:20 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	2.103	2.232	423.7E6	330.0E6	250.000	250.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-T...	2.584	2.867	70850341	51757491	36.368	35.580
	Spiked Amount 500.000	Range 30 - 150		Recovery =		7.27%#	7.12%#
3) s	Decachlor...	6.596	7.235	96845130	66966436	75.227	73.050
	Spiked Amount 500.000	Range 30 - 150		Recovery =		15.05%#	14.61%#
	Target Compounds						
4) l1	1016-1	2.822	3.237	20729994	17215091	612.805M4	640.688
5) l1	1016-2	3.070	3.563	46396456	37629915	616.032M4	617.531
6) l1	1016-3	3.418	3.956	49829678	39260622	577.266M4	573.791
7) l1	1016-4	3.522	4.070	37166994	27002184	605.892M3	594.638
8) l1	1016-5	3.846	4.454	29925580	21997760	580.567M4	594.488
	Sum 1016-1			184.0E6	143.1E6	2992.563	3021.136
Average	1016-1					598.513	604.227
9) l2	1260-1	4.802	5.418	55231746	37864228	588.206	581.368
10) l2	1260-2	5.006	5.560	78341499	43933204	579.674M4	583.194
11) l2	1260-3	5.469	6.081	51556589	35449881	587.066M4	575.422
12) l2	1260-4	5.683	6.240	113.3E6	70270970	575.153	564.125
13) l2	1260-5	5.879	6.487	72264648	48606469	564.197	561.044
	Sum 1260-1			370.7E6	236.1E6	NoCal	NoCal
Average	1260-1					578.859	573.031
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-28.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 9:38 pm
Operator : pest7:kb
Sample : il21660,42e,,8234
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 27 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 10:26:10 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 10:16:20 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Sum 1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1248-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-28.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 9:38 pm
Operator : pest7:kb
Sample : il21660,42e,,8234
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 27 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 10:26:10 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 10:16:20 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound		RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

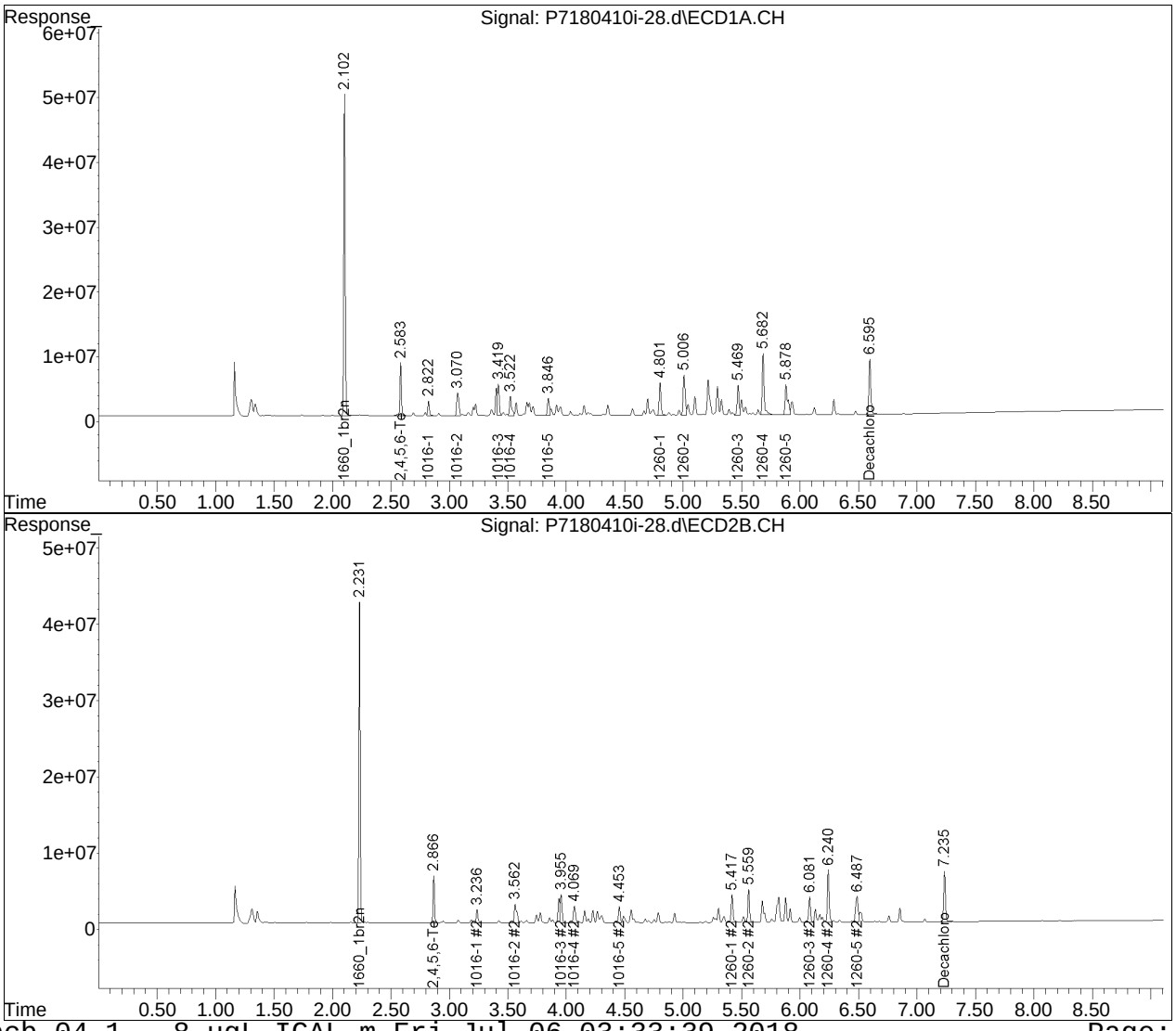
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-28.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 9:38 pm
Operator : pest7:kb
Sample : il21660,42e,,8234
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 27 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 10:26:10 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 10:16:20 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

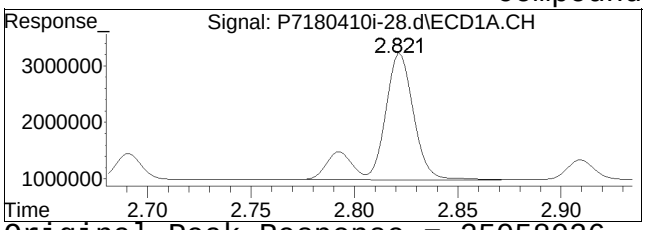


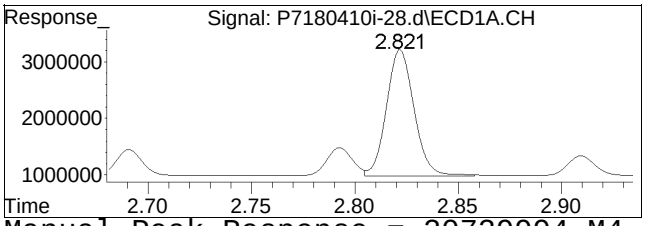
Manual Integration/Negative Proof Report

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-28.d
Date Inj'd : 4/10/2018 9:38 pm
Sample : il21660,42e,,8234

QMethod : P7_pcb_04_10_18_ugL_IC
Operator : pest7:kb
Instrument : Pest 7
Quant Date : 5/18/2018 10:17 am

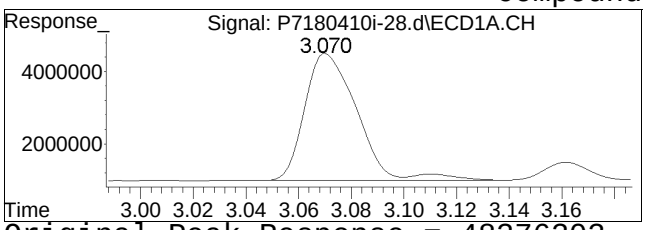
Compound #4: 1016-1

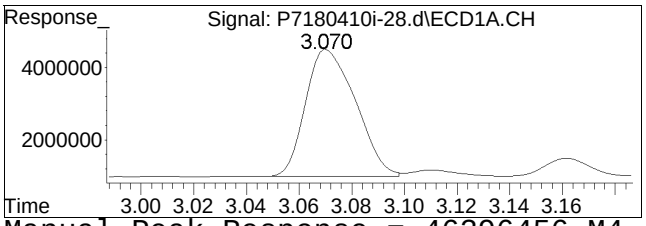




Original Peak Response = 25058926 Manual Peak Response = 20729994 M4
M4 = Poor automated baseline construction.

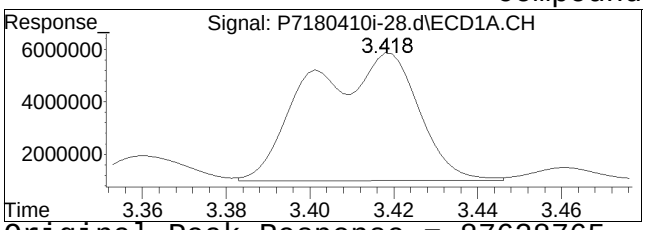
Compound #5: 1016-2

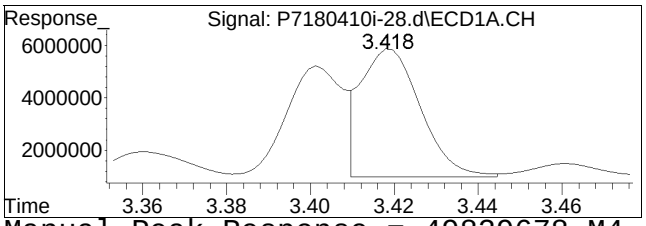




Original Peak Response = 48376303 Manual Peak Response = 46396456 M4
M4 = Poor automated baseline construction.

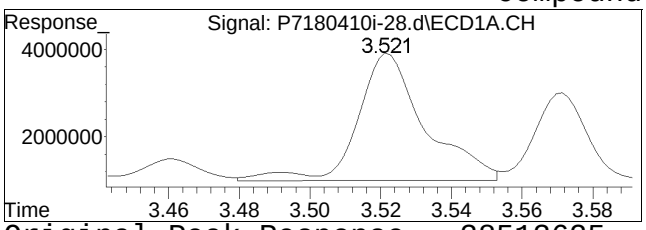
Compound #6: 1016-3

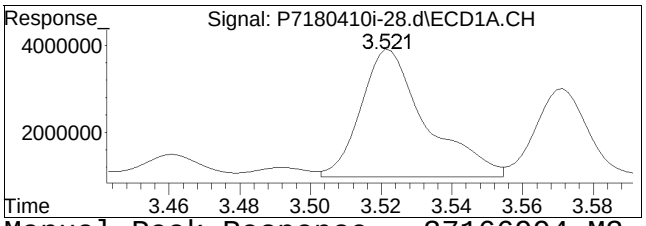




Original Peak Response = 87628765 Manual Peak Response = 49829678 M4
M4 = Poor automated baseline construction.

Compound #7: 1016-4





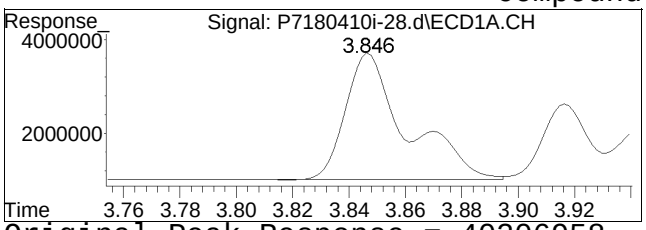
Original Peak Response = 38513625 Manual Peak Response = 37166994 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

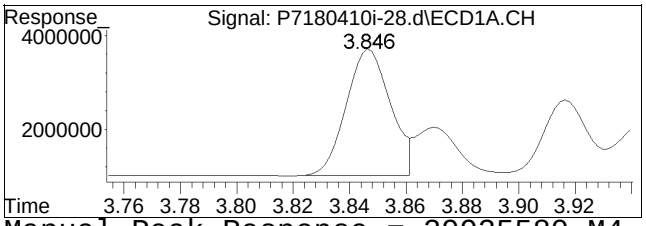
Manual Integration/Negative Proof Report

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-28.d
Date Inj'd : 4/10/2018 9:38 pm
Sample : il21660,42e,,8234

QMethod : P7_pcb_04_10_18_ugL_IC
Operator : pest7:kb
Instrument : Pest 7
Quant Date : 5/18/2018 10:17 am

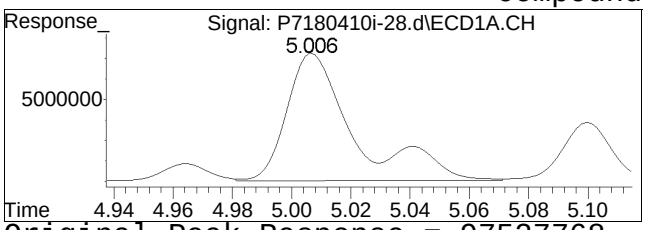
Compound #8: 1016-5

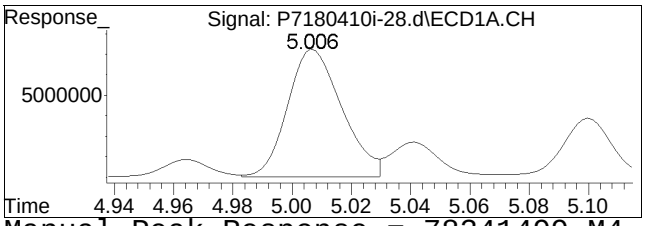




Original Peak Response = 40206958 Manual Peak Response = 29925580 M4
M4 = Poor automated baseline construction.

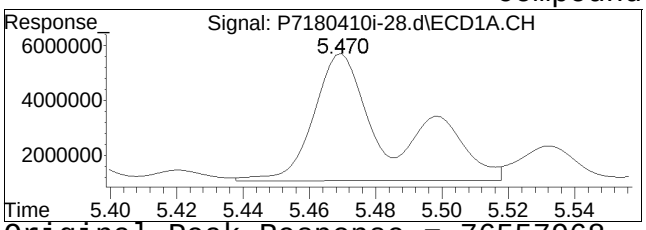
Compound #10: 1260-2

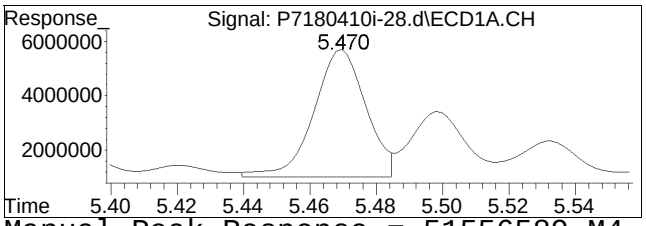




Original Peak Response = 97527768 Manual Peak Response = 78341499 M4
M4 = Poor automated baseline construction.

Compound #11: 1260-3





Original Peak Response = 76557968 Manual Peak Response = 51556589 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-29.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 9:51 pm
Operator : pest7:kb
Sample : il31660,42e,,8233
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 28 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 10:37:32 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 10:14:33 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	2.103	2.231	434.0E6	335.7E6	250.000	250.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-T...	2.584	2.866	139.0E6	100.8E6	71.732	69.652
Spiked Amount	500.000	Range 30 - 150		Recovery =		14.35%#	13.93%#
3) s	Decachlor...	6.599	7.250	184.7E6	127.5E6	144.569	139.918
Spiked Amount	500.000	Range 30 - 150		Recovery =		28.91%#	27.98%#
	Target Compounds						
4) l1	1016-1	2.822	3.235	37701126	31146066	1120.792M4	1196.757M4
5) l1	1016-2	3.070	3.562	86895941	68918453	1175.765M4	1154.817
6) l1	1016-3	3.419	3.956	95267826	74298777	1105.877M4	1091.972
7) l1	1016-4	3.523	4.069	68923483	50239718	1133.386	1120.288
8) l1	1016-5	3.847	4.453	55683468	40684814	1074.067M3	1110.758
Sum	1016-1			344.5E6	265.3E6	5609.887	5674.593
Average	1016-1					1121.977	1134.919
9) l2	1260-1	4.802	5.417	104.9E6	70184020	1123.922	1080.667
10) l2	1260-2	5.006	5.560	147.6E6	81958857	1089.724M4	1094.851
11) l2	1260-3	5.469	6.081	97870878	66173883	1120.717M4	1075.936
12) l2	1260-4	5.684	6.242	221.7E6	133.9E6	1135.534	1076.668
13) l2	1260-5	5.880	6.490	138.8E6	91791113	1078.767	1056.127
Sum	1260-1			710.8E6	444.0E6	NoCal	NoCal
Average	1260-1					1109.733	1076.850
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-29.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 9:51 pm
Operator : pest7:kb
Sample : il31660,42e,,8233
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 28 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 10:37:32 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 10:14:33 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17)	l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18)	l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19)	l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20)	l4 1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21)	l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22)	l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24)	l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25)	l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26)	l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27)	l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28)	l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29)	l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l9 1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31)	l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32)	l9 1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33)	l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35)	l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36)	l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37)	l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38)	l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39)	l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-29.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 9:51 pm
Operator : pest7:kb
Sample : il31660,42e,,8233
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 28 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 10:37:32 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 10:14:33 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Sum 1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

	Sum 1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

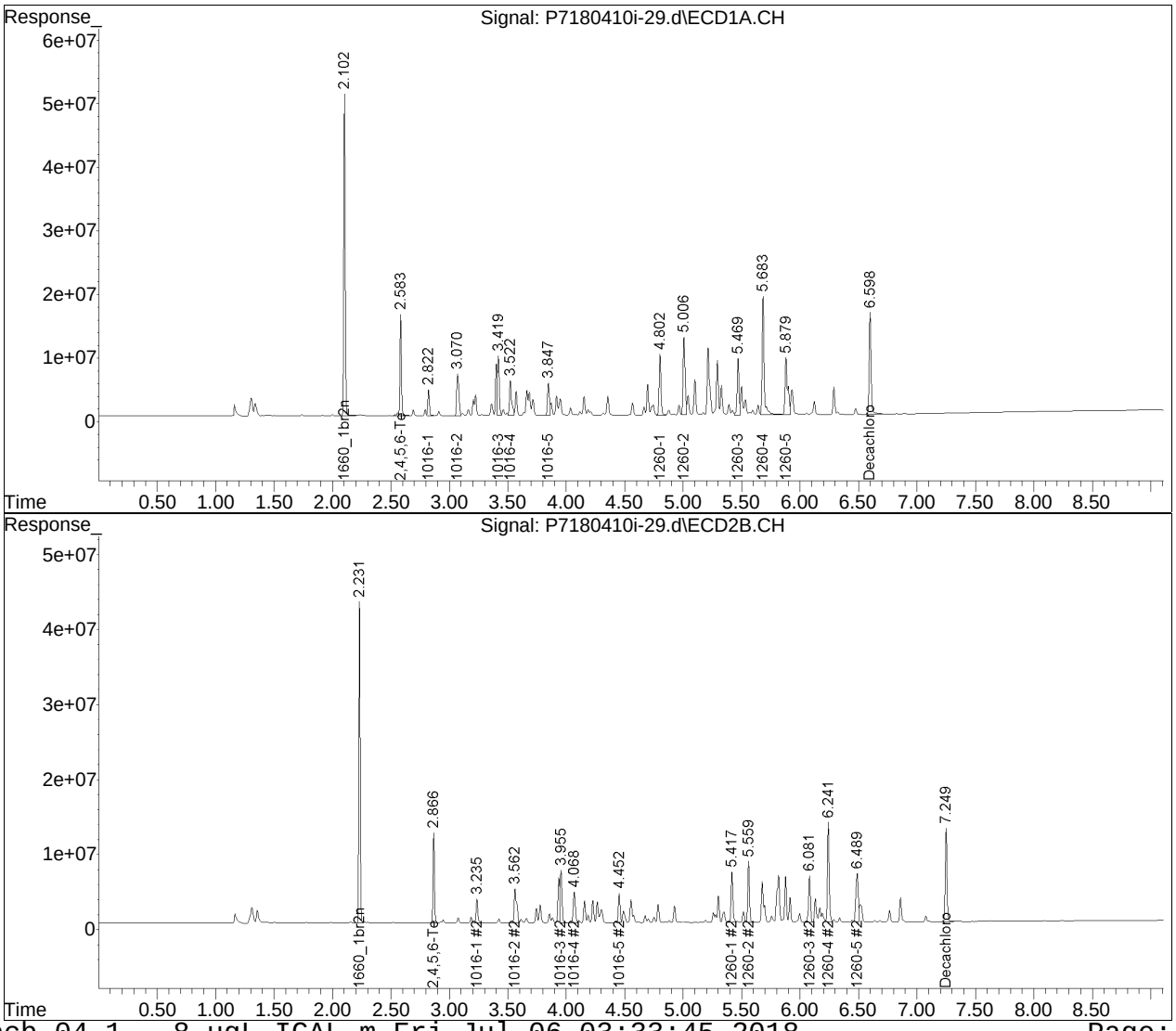
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-29.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 9:51 pm
Operator : pest7:kb
Sample : il31660,42e,,8233
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 28 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 10:37:32 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 10:14:33 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

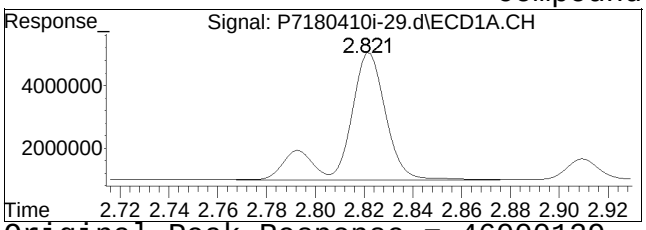


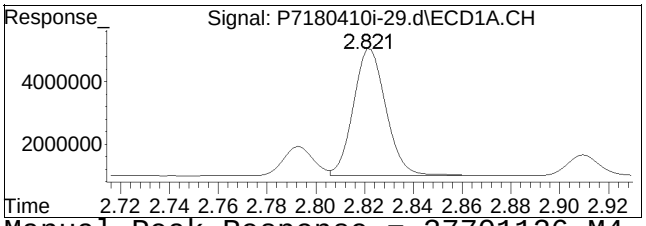
Manual Integration/Negative Proof Report

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-29.d
Date Inj'd : 4/10/2018 9:51 pm
Sample : il31660,42e,,8233

QMethod : P7_pcb_04_10_18_ugL_IC
Operator : pest7:kb
Instrument : Pest 7
Quant Date : 5/18/2018 10:14 am

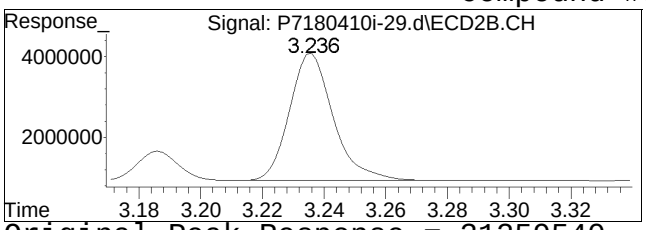
Compound #4: 1016-1

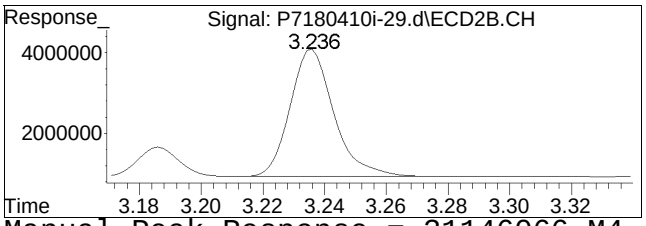




Original Peak Response = 46000129 Manual Peak Response = 37701126 M4
M4 = Poor automated baseline construction.

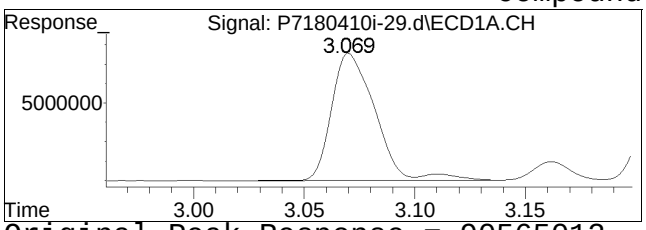
Compound #55: 1016-1 #2

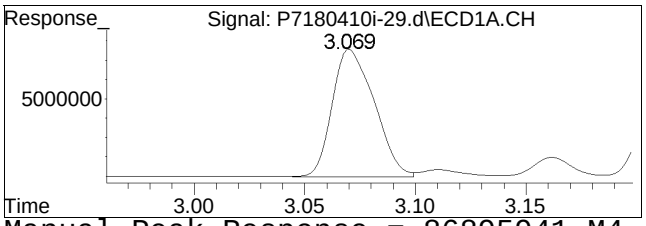




Original Peak Response = 31259540 Manual Peak Response = 31146066 M4
M4 = Poor automated baseline construction.

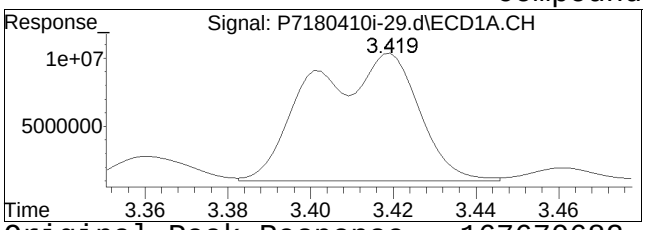
Compound #5: 1016-2

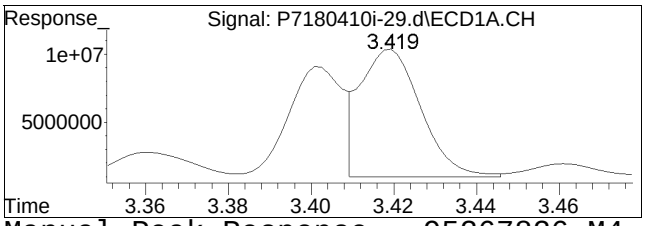




Original Peak Response = 90565012 Manual Peak Response = 86895941 M4
M4 = Poor automated baseline construction.

Compound #6: 1016-3





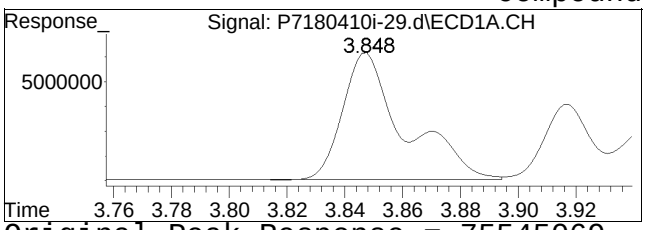
Original Peak Response = 167670682 Manual Peak Response = 95267826 M4
M4 = Poor automated baseline construction.

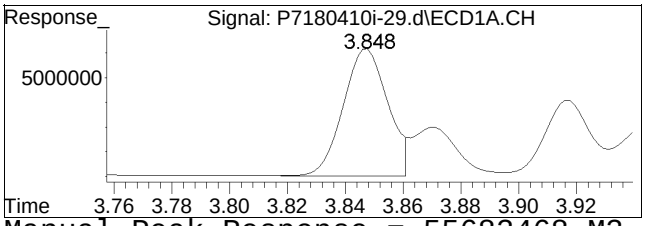
Manual Integration/Negative Proof Report

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-29.d
Date Inj'd : 4/10/2018 9:51 pm
Sample : il31660,42e,,8233

QMethod : P7_pcb_04_10_18_ugL_IC
Operator : pest7:kb
Instrument : Pest 7
Quant Date : 5/18/2018 10:14 am

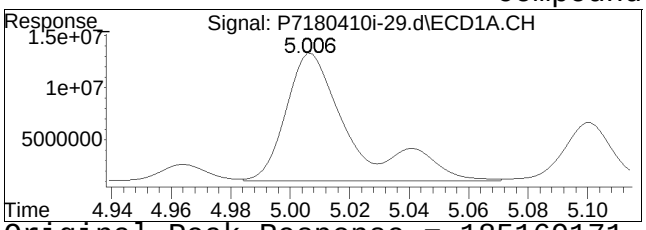
Compound #8: 1016-5

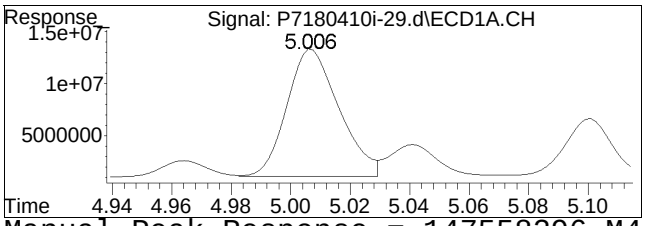




Original Peak Response = 75545069 Manual Peak Response = 55683468 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

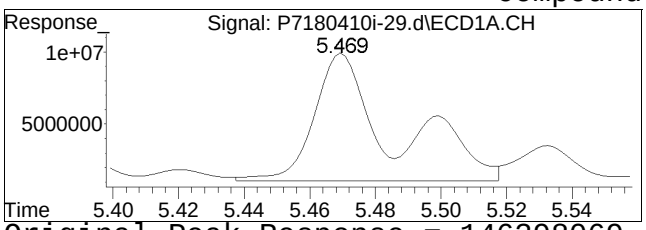
Compound #10: 1260-2

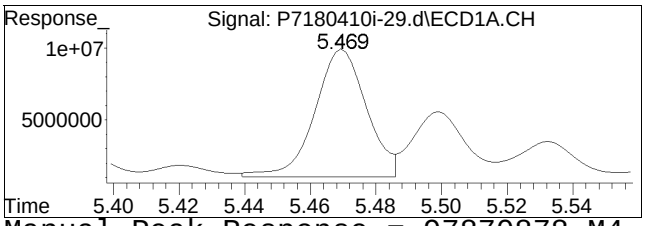




Original Peak Response = 185169171 Manual Peak Response = 147558296 M4
M4 = Poor automated baseline construction.

Compound #11: 1260-3





Original Peak Response = 146398069 Manual Peak Response = 97870878 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-30.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 10:04 pm
Operator : pest7:kb
Sample : il41660,42e,,8232
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 29 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 10:49:49 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 10:08:46 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	2.103	2.232	438.1E6	336.8E6	250.000	250.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-T...	2.584	2.867	338.7E6	243.6E6	160.000	160.000
	Spiked Amount 500.000	Range 30 - 150		Recovery =		32.00%	32.00%
3) s	Decachlor...	6.598	7.248	443.5E6	307.3E6	320.000M2	320.000M2
	Spiked Amount 500.000	Range 30 - 150		Recovery =		64.00%	64.00%
	Target Compounds						
4) l1	1016-1	2.822	3.235	87100749	70934530	2500.000M4	2534.832M4
5) l1	1016-2	3.070	3.562	200.4E6	158.9E6	2500.000M4	2500.000
6) l1	1016-3	3.419	3.955	236.5E6	179.2E6	2500.000M4	2500.000
7) l1	1016-4	3.522	4.069	163.6E6	117.7E6	2500.000	2500.000
8) l1	1016-5	3.847	4.453	139.7E6	95816206	2500.000M4	2500.000
	Sum 1016-1			827.3E6	622.5E6	12500.000	12534.832
Average	1016-1					2500.000	2506.966
9) l2	1260-1	4.801	5.417	247.3E6	169.1E6	2500.000M2	2500.000
10) l2	1260-2	5.007	5.560	366.2E6	194.1E6	2500.000M2	2500.000
11) l2	1260-3	5.469	6.080	235.8E6	160.0E6	2500.000M2	2500.000M4
12) l2	1260-4	5.683	6.240	513.9E6	327.4E6	2500.000M2	2500.000M4
13) l2	1260-5	5.879	6.488	335.3E6	230.3E6	2500.000M4	2500.000M2
	Sum 1260-1			1698.5E6	1080.9E6	NoCal	NoCal

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-30.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 10:04 pm
Operator : pest7:kb
Sample : il41660,42e,,8232
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 29 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 10:49:49 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 10:08:46 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average 1260-1					2500.000	2500.000
15) l3 1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-1			0	0	N.D.	N.D.
Average 1221-1					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-30.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 10:04 pm
Operator : pest7:kb
Sample : il41660,42e,,8232
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 29 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 10:49:49 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 10:08:46 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
36)	l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37)	l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38)	l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39)	l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41)	l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42)	l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43)	l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44)	l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45)	l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46)	l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47)	l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48)	l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49)	l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50)	l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

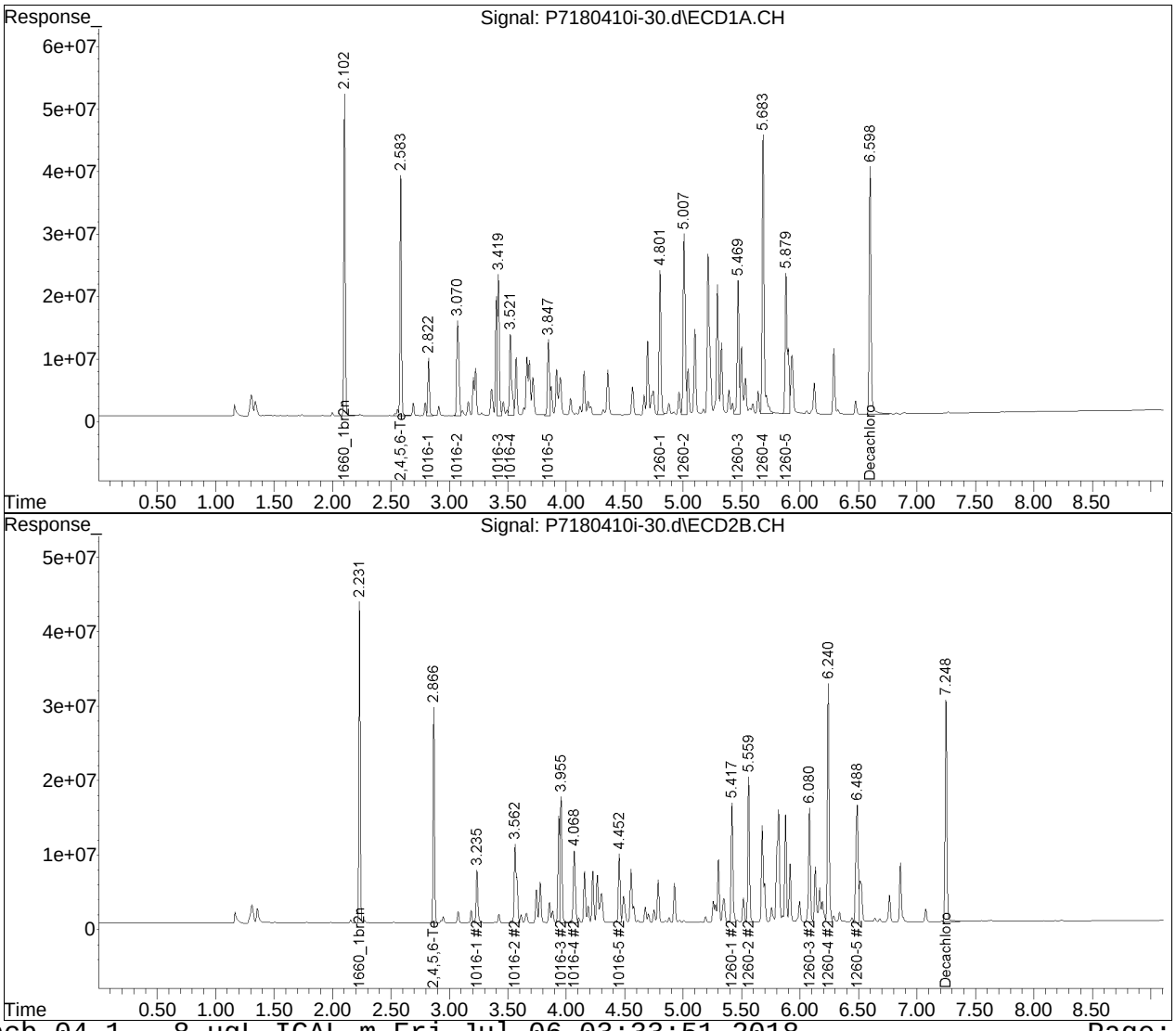
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-30.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 10:04 pm
Operator : pest7:kb
Sample : il41660,42e,,8232
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 29 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 10:49:49 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 10:08:46 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

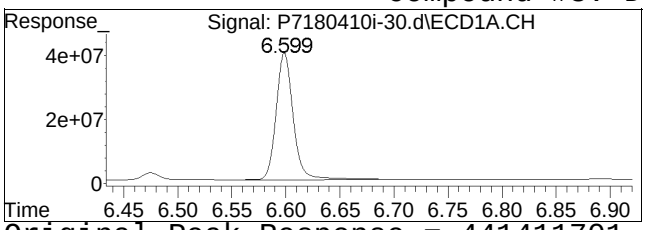


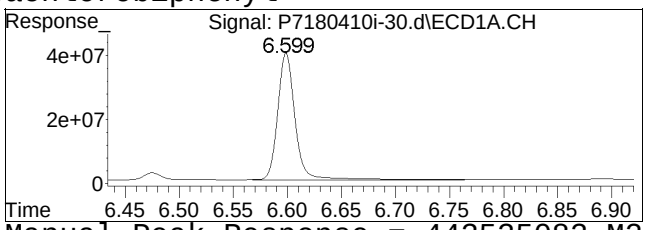
Manual Integration/Negative Proof Report

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-30.d
Date Inj'd : 4/10/2018 10:04 pm
Sample : il41660,42e,,8232

QMethod : P7_pcb_04_10_18_ugL_IC
Operator : pest7:kb
Instrument : Pest 7
Quant Date : 5/18/2018 10:08 am

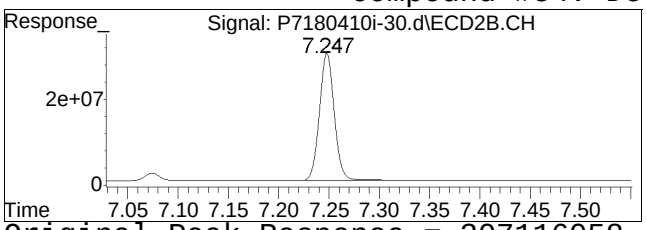
Compound #3: Decachlorobiphenyl

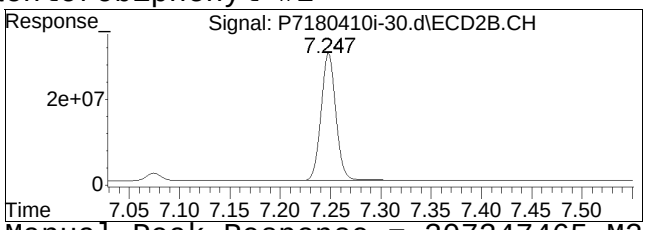




Original Peak Response = 441411701 Manual Peak Response = 443535083 M2
M2 = Peak not found by automatic integration algorithm.

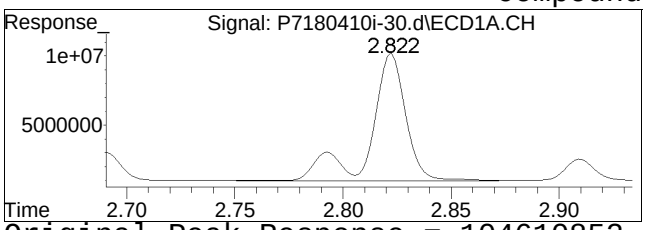
Compound #54: Decachlorobiphenyl #2

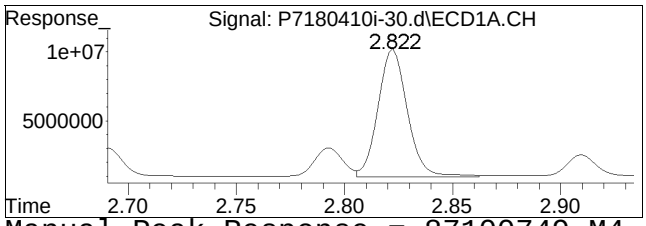




Original Peak Response = 307116058 Manual Peak Response = 307347465 M2
M2 = Peak not found by automatic integration algorithm.

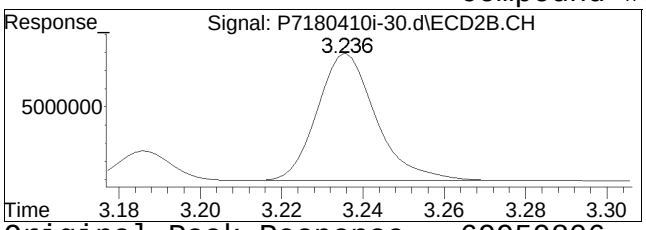
Compound #4: 1016-1

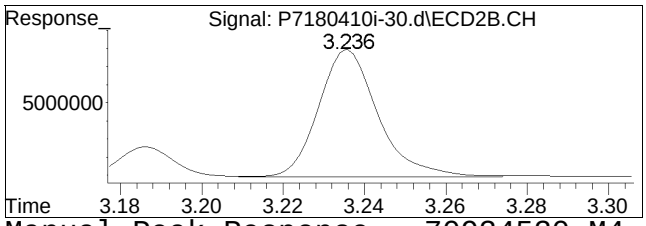




Original Peak Response = 104610852 Manual Peak Response = 87100749 M4
M4 = Poor automated baseline construction.

Compound #55: 1016-1 #2





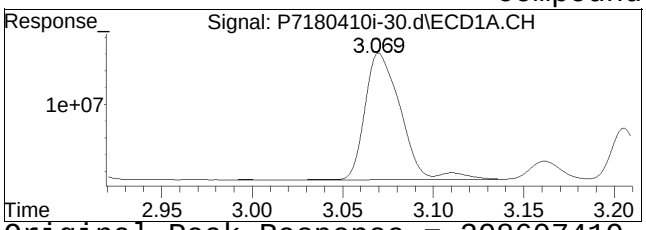
Original Peak Response = 69959806 Manual Peak Response = 70934530 M4
M4 = Poor automated baseline construction.

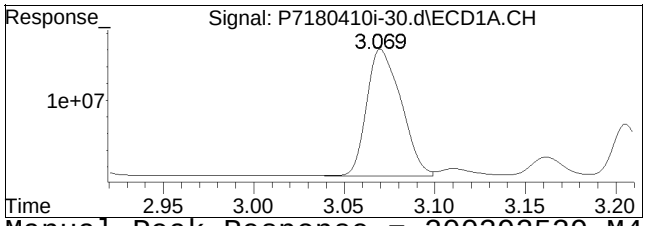
Manual Integration/Negative Proof Report

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-30.d
Date Inj'd : 4/10/2018 10:04 pm
Sample : il41660,42e,,8232

QMethod : P7_pcb_04_10_18_ugL_IC
Operator : pest7:kb
Instrument : Pest 7
Quant Date : 5/18/2018 10:08 am

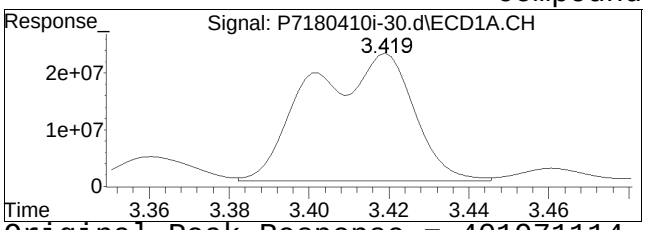
Compound #5: 1016-2

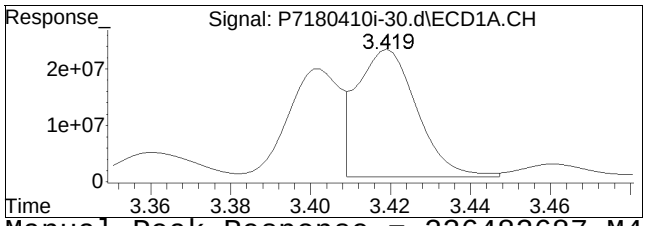




Original Peak Response = 208607419 Manual Peak Response = 200392529 M4
M4 = Poor automated baseline construction.

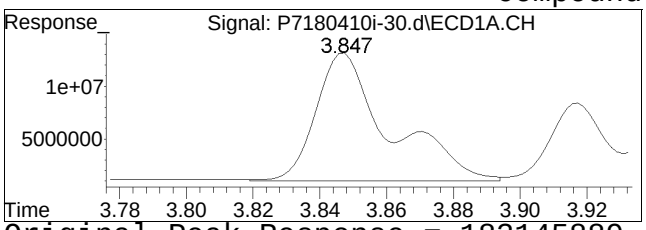
Compound #6: 1016-3

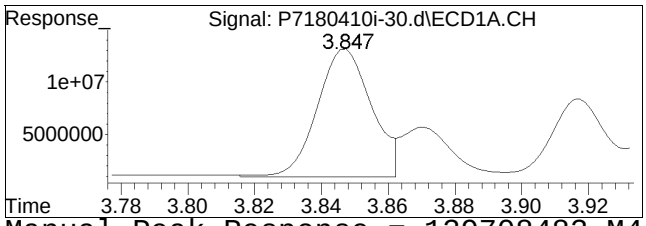




Original Peak Response = 401971114 Manual Peak Response = 236482687 M4
M4 = Poor automated baseline construction.

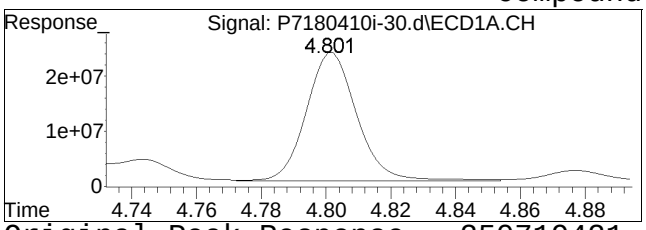
Compound #8: 1016-5

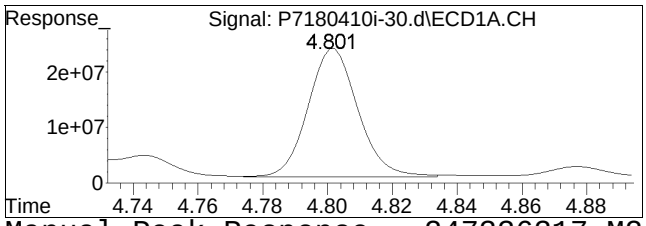




Original Peak Response = 183145889 Manual Peak Response = 139708483 M4
M4 = Poor automated baseline construction.

Compound #9: 1260-1





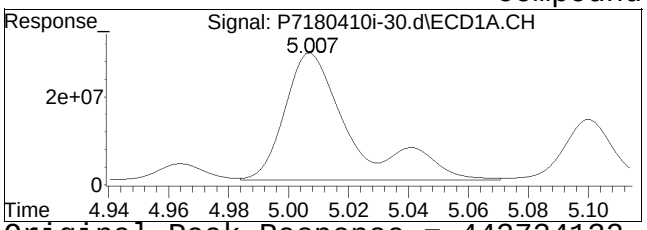
Original Peak Response = 250719421 Manual Peak Response = 247336317 M2
M2 = Peak not found by automatic integration algorithm.

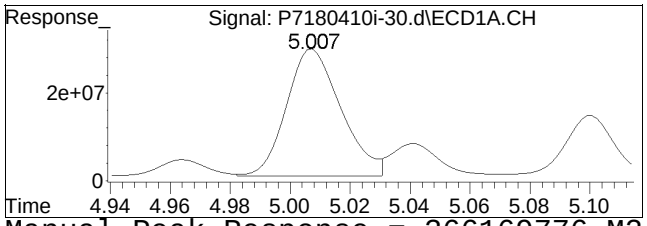
Manual Integration/Negative Proof Report

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-30.d
Date Inj'd : 4/10/2018 10:04 pm
Sample : il41660,42e,,8232

QMethod : P7_pcb_04_10_18_ugL_IC
Operator : pest7:kb
Instrument : Pest 7
Quant Date : 5/18/2018 10:08 am

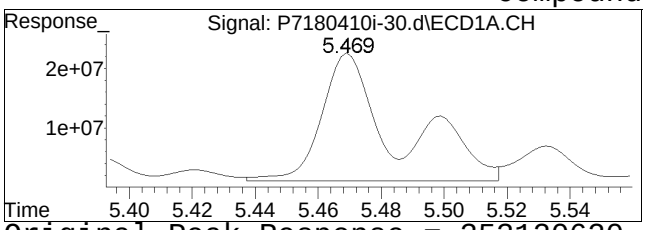
Compound #10: 1260-2

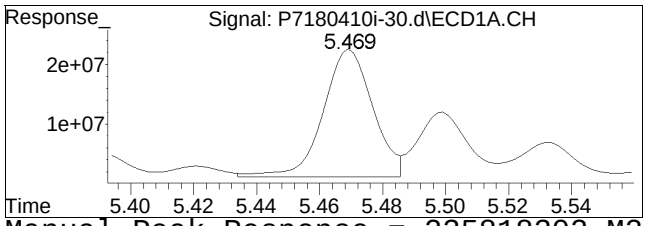




Original Peak Response = 443734132 Manual Peak Response = 366169776 M2
M2 = Peak not found by automatic integration algorithm.

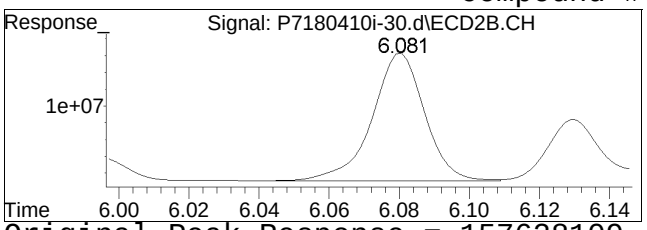
Compound #11: 1260-3

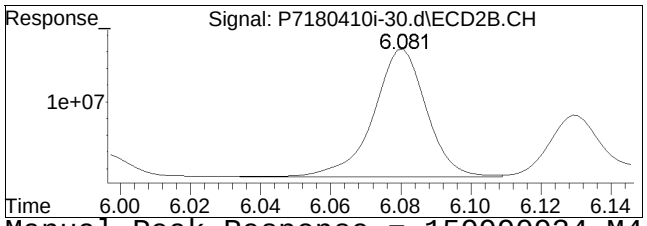




Original Peak Response = 353120620 Manual Peak Response = 235818302 M2
M2 = Peak not found by automatic integration algorithm.

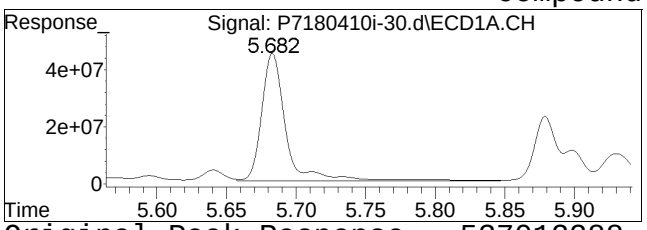
Compound #62: 1260-3 #2

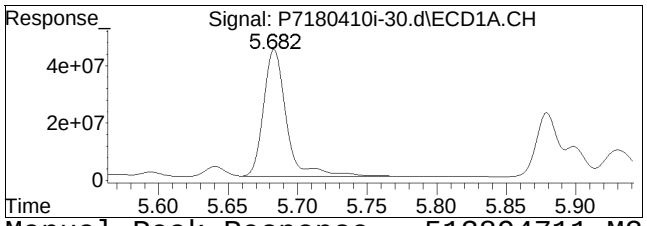




Original Peak Response = 157628109 Manual Peak Response = 159990934 M4
M4 = Poor automated baseline construction.

Compound #12: 1260-4





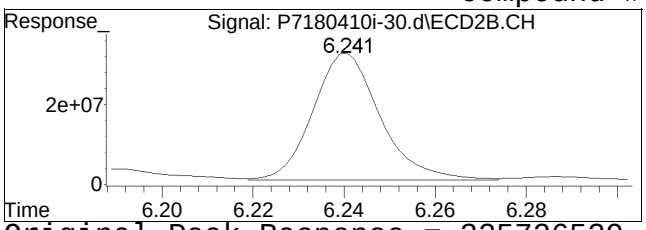
Original Peak Response = 537012288 Manual Peak Response = 513894711 M2
M2 = Peak not found by automatic integration algorithm.

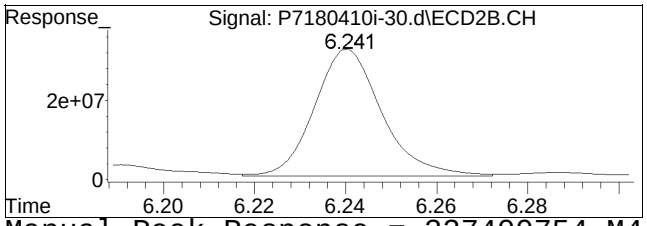
Manual Integration/Negative Proof Report

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-30.d
Date Inj'd : 4/10/2018 10:04 pm
Sample : il41660,42e,,8232

QMethod : P7_pcb_04_10_18_ugL_IC
Operator : pest7:kb
Instrument : Pest 7
Quant Date : 5/18/2018 10:08 am

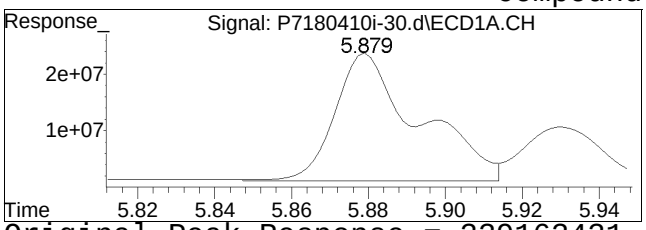
Compound #63: 1260-4 #2

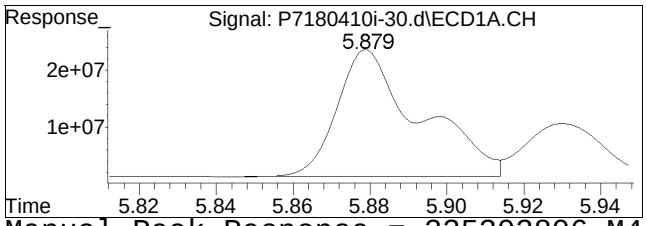




Original Peak Response = 325726529 Manual Peak Response = 327400754 M4
M4 = Poor automated baseline construction.

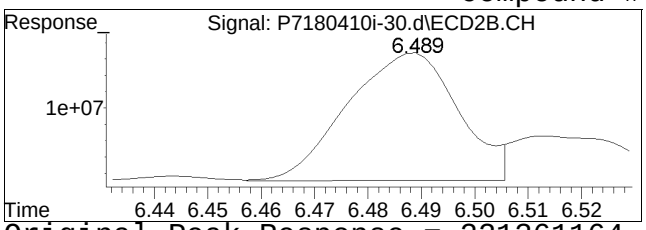
Compound #13: 1260-5

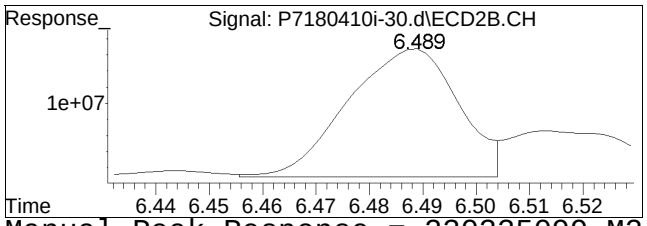




Original Peak Response = 339163431 Manual Peak Response = 335303806 M4
M4 = Poor automated baseline construction.

Compound #64: 1260-5 #2





Original Peak Response = 221361164 Manual Peak Response = 230335099 M2
M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-31.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 10:16 pm
Operator : pest7:kb
Sample : il51660,42e,,8231
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 30 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 10:47:39 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 10:09:20 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	2.103	2.232	431.1E6	329.1E6	250.000	250.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-T...	2.584	2.867	631.7E6	461.3E6	303.227	310.121
Spiked Amount	500.000	Range 30 - 150		Recovery =		60.65%	62.02%
3) s	Decachlor...	6.598	7.244	821.4E6	576.6E6	602.205	614.376
Spiked Amount	500.000	Range 30 - 150		Recovery =		120.44%	122.88%
	Target Compounds						
4) l1	1016-1	2.821	3.235	156.5E6	129.1E6	4565.448M4	4721.949M4
5) l1	1016-2	3.072	3.562	381.3E6	293.3E6	4834.681	4722.990
6) l1	1016-3	3.418	3.956	428.7E6	336.8E6	4606.106M4	4810.240
7) l1	1016-4	3.522	4.069	304.2E6	220.4E6	4722.607	4789.082
8) l1	1016-5	3.846	4.453	260.7E6	179.3E6	4740.790M4	4786.959
Sum	1016-1			1531.5E6	1158.8E6	23469.631	23831.221
Average	1016-1					4693.926	4766.244
9) l2	1260-1	4.802	5.417	471.7E6	320.6E6	4844.764	4851.359
10) l2	1260-2	5.007	5.560	679.3E6	371.2E6	4713.404M4	4891.835
11) l2	1260-3	5.469	6.082	426.9E6	302.3E6	4599.679M4	4833.840
12) l2	1260-4	5.684	6.241	1000.8E6	616.4E6	4947.514	4817.081
13) l2	1260-5	5.880	6.489	649.7E6	422.8E6	4922.377	4696.609
Sum	1260-1			3228.4E6	2033.2E6	NoCal	NoCal
Average	1260-1					4805.547	4818.145
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-31.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 10:16 pm
Operator : pest7:kb
Sample : il51660,42e,,8231
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 30 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 10:47:39 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 10:09:20 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17)	l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18)	l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19)	l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20)	l4 1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21)	l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22)	l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24)	l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25)	l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26)	l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27)	l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28)	l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29)	l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l9 1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31)	l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32)	l9 1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33)	l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35)	l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36)	l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37)	l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38)	l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39)	l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-31.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 10:16 pm
Operator : pest7:kb
Sample : il51660,42e,,8231
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 30 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 10:47:39 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 10:09:20 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Sum 1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum 1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

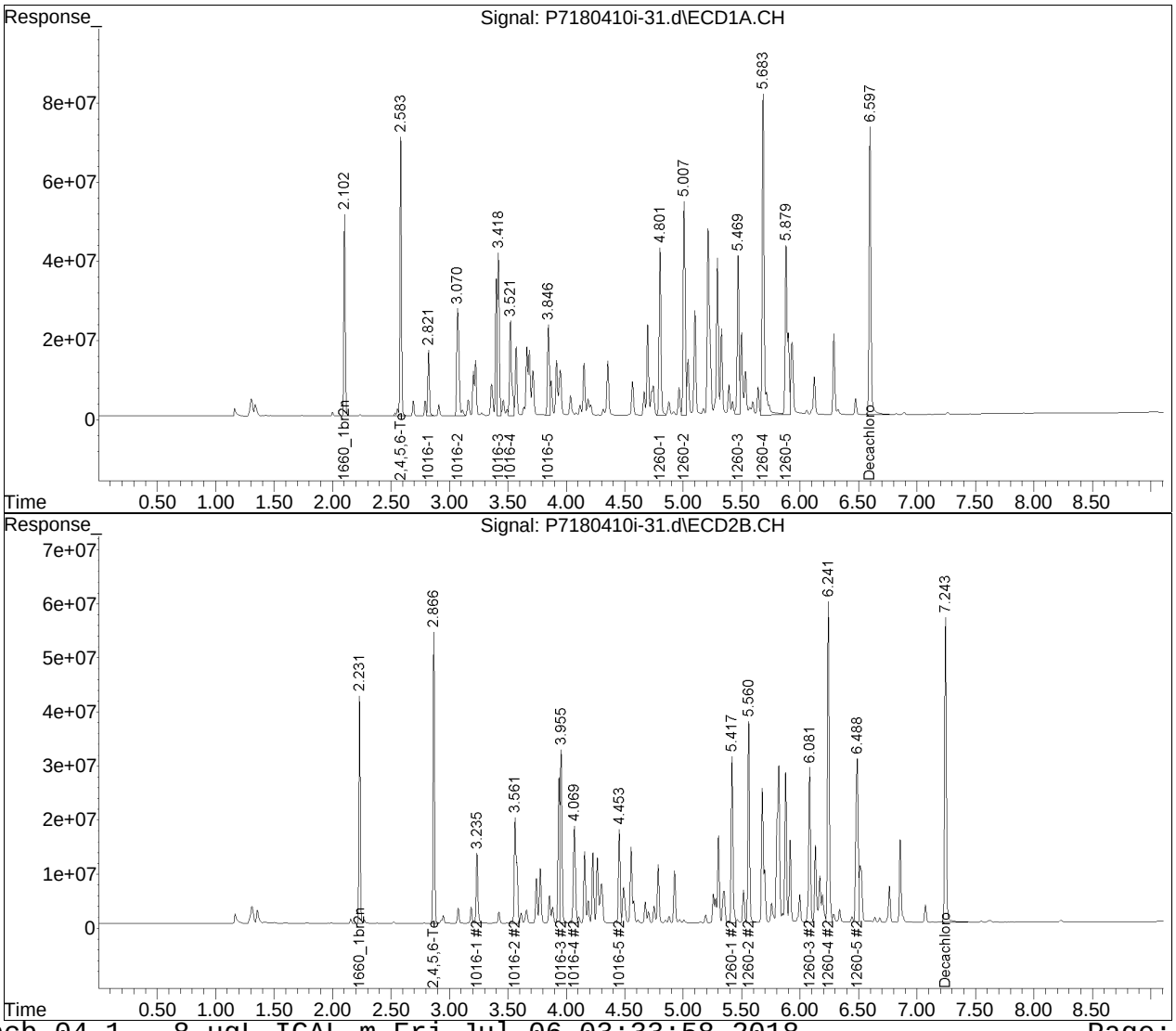
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-31.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 10:16 pm
Operator : pest7:kb
Sample : il51660,42e,,8231
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 30 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 10:47:39 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 10:09:20 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

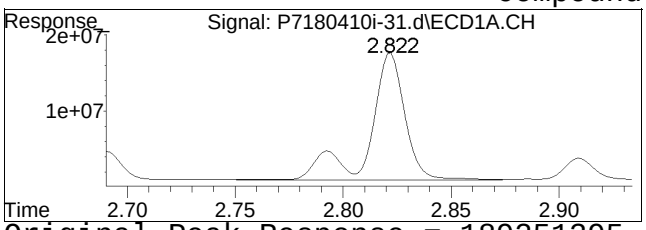


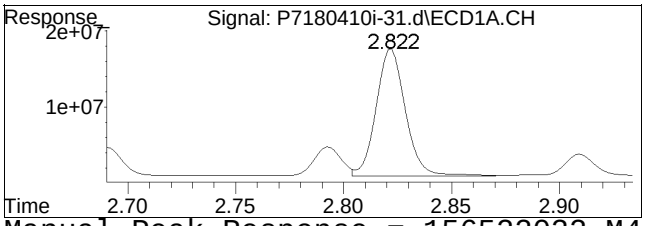
Manual Integration/Negative Proof Report

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-31.d
Date Inj'd : 4/10/2018 10:16 pm
Sample : il51660,42e,,8231

QMethod : P7_pcb_04_10_18_ugL_IC
Operator : pest7:kb
Instrument : Pest 7
Quant Date : 5/18/2018 10:09 am

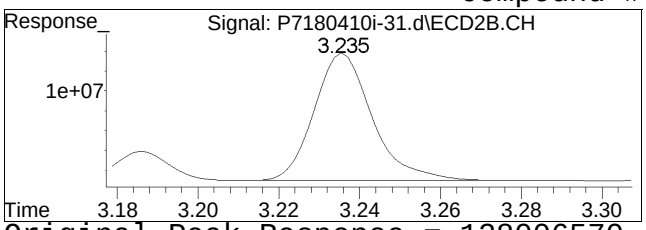
Compound #4: 1016-1

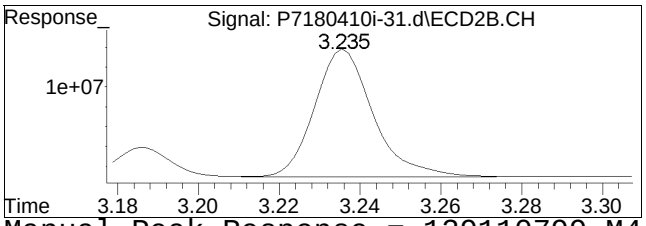




Original Peak Response = 189251395 Manual Peak Response = 156522022 M4
M4 = Poor automated baseline construction.

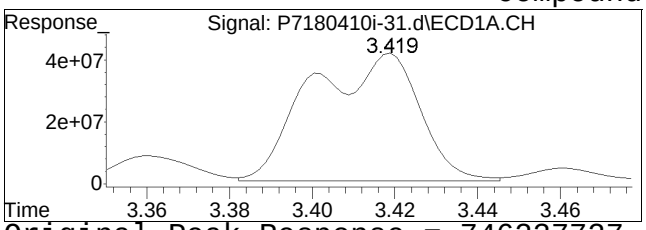
Compound #55: 1016-1 #2

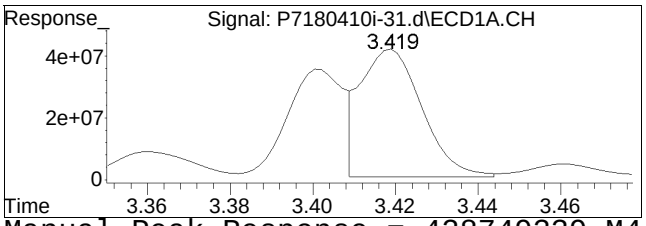




Original Peak Response = 128006570 Manual Peak Response = 129110799 M4
M4 = Poor automated baseline construction.

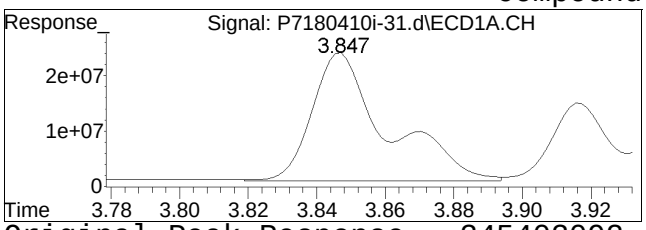
Compound #6: 1016-3

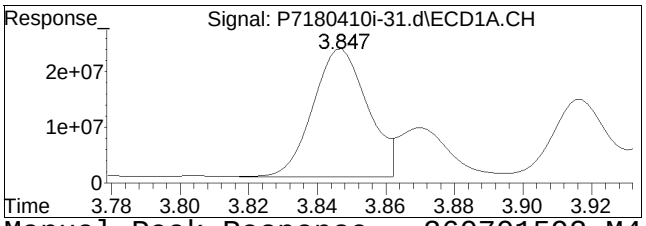




Original Peak Response = 746237727 Manual Peak Response = 428749339 M4
M4 = Poor automated baseline construction.

Compound #8: 1016-5





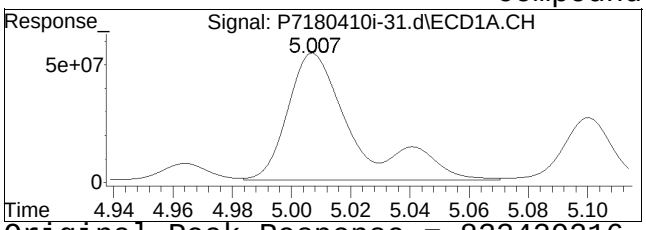
Original Peak Response = 345403092 Manual Peak Response = 260701592 M4
M4 = Poor automated baseline construction.

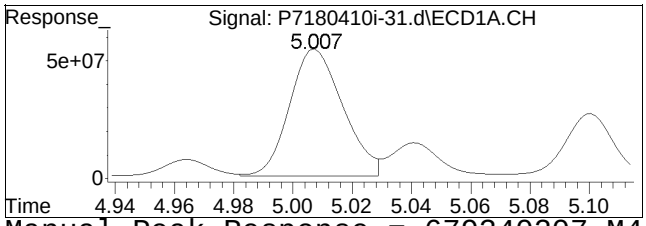
Manual Integration/Negative Proof Report

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-31.d
Date Inj'd : 4/10/2018 10:16 pm
Sample : il51660,42e,,8231

QMethod : P7_pcb_04_10_18_ugL_IC
Operator : pest7:kb
Instrument : Pest 7
Quant Date : 5/18/2018 10:09 am

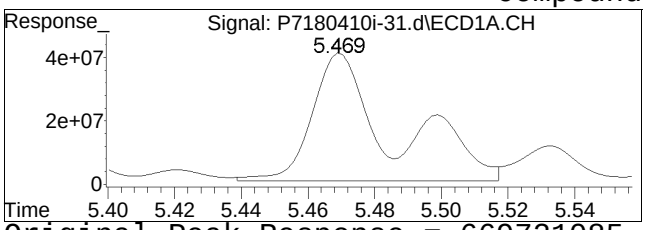
Compound #10: 1260-2

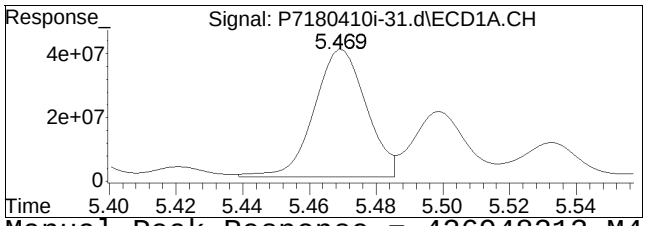




Original Peak Response = 833429216 Manual Peak Response = 679340207 M4
M4 = Poor automated baseline construction.

Compound #11: 1260-3





Original Peak Response = 669721085 Manual Peak Response = 426948213 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-32.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 10:29 pm
Operator : pest7:kb
Sample : il61660,42e,,8230
Misc : WG1132938,
ALS Vial : 31 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 10:48:05 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 10:11:37 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	2.103	2.232	443.3E6	333.2E6	250.000	250.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-T...	2.584	2.867	1129.1E6	861.0E6	541.345	580.606
Spiked Amount	500.000	Range 30 - 150		Recovery =	108.27%	116.12%	
3) s	Decachlor...	6.597	7.240	1526.1E6	1089.7E6	1121.374	1170.235
Spiked Amount	500.000	Range 30 - 150		Recovery =	224.27%#	234.05%#	
	Target Compounds						
4) l1	1016-1	2.822	3.235	289.0E6	241.7E6	7793.666	9019.149M4
5) l1	1016-2	3.071	3.562	669.3E6	554.5E6	8391.973	9070.355
6) l1	1016-3	3.419	3.956	800.9E6	634.9E6	8711.182M4	9127.585
7) l1	1016-4	3.522	4.069	575.5E6	423.2E6	8937.569	9280.060
8) l1	1016-5	3.848	4.453	487.0E6	348.5E6	8842.740	9390.574
Sum	1016-1			2821.7E6	2202.8E6	42677.130	45887.722
Average	1016-1					8535.426	9177.544
9) l2	1260-1	4.802	5.417	887.9E6	615.7E6	9009.958	9340.750
10) l2	1260-2	5.008	5.560	1270.1E6	709.1E6	8823.814	9330.871
11) l2	1260-3	5.470	6.081	843.5E6	586.2E6	9206.637	9414.653
12) l2	1260-4	5.684	6.240	1844.8E6	1158.5E6	8917.124	9108.152
13) l2	1260-5	5.879	6.488	1249.8E6	820.3E6	9282.217	9281.057
Sum	1260-1			6096.1E6	3889.8E6	NoCal	NoCal
Average	1260-1					9047.950	9295.097
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-32.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 10:29 pm
Operator : pest7:kb
Sample : il61660,42e,,8230
Misc : WG1132938,
ALS Vial : 31 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 10:48:05 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 10:11:37 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Sum 1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1248-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-32.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 10:29 pm
Operator : pest7:kb
Sample : il61660,42e,,8230
Misc : WG1132938,
ALS Vial : 31 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 10:48:05 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 10:11:37 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

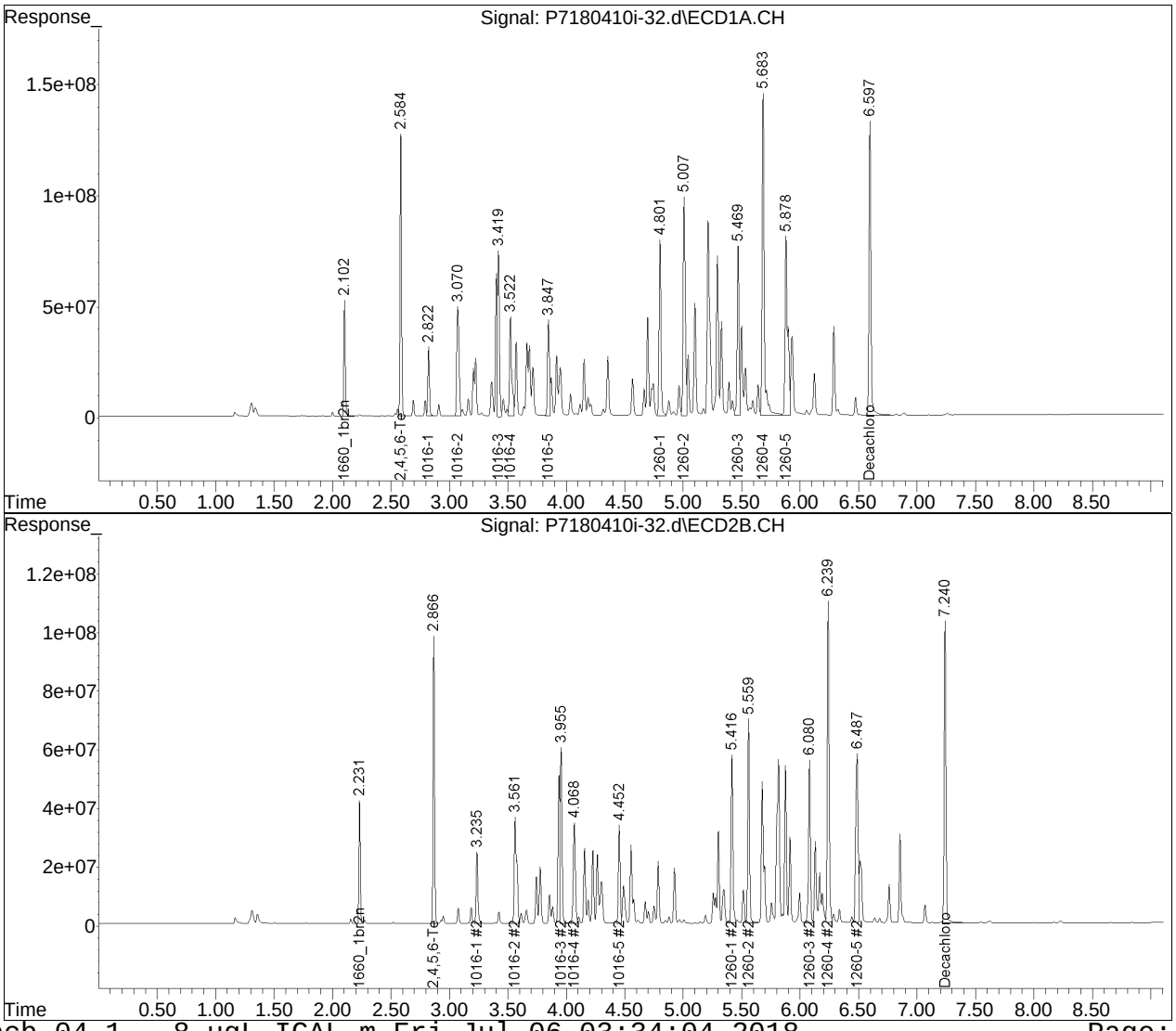
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-32.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 10:29 pm
Operator : pest7:kb
Sample : il61660,42e,,8230
Misc : WG1132938,
ALS Vial : 31 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 10:48:05 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 10:11:37 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

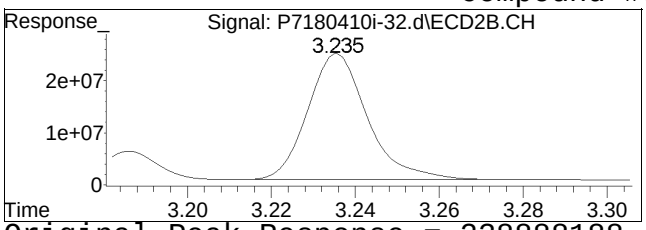


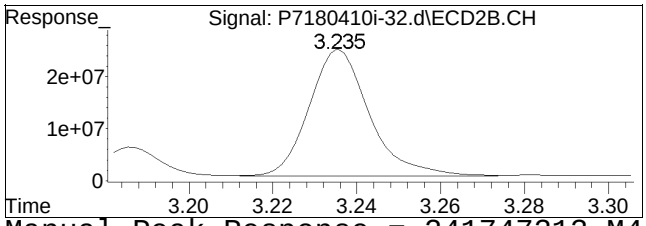
Manual Integration/Negative Proof Report

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-32.d
Date Inj'd : 4/10/2018 10:29 pm
Sample : il61660,42e,,8230

QMethod : P7_pcb_04_10_18_ugL_IC
Operator : pest7:kb
Instrument : Pest 7
Quant Date : 5/18/2018 10:13 am

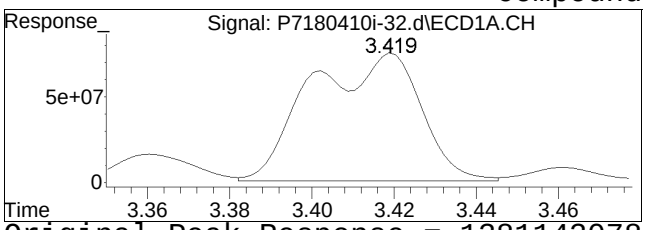
Compound #55: 1016-1 #2

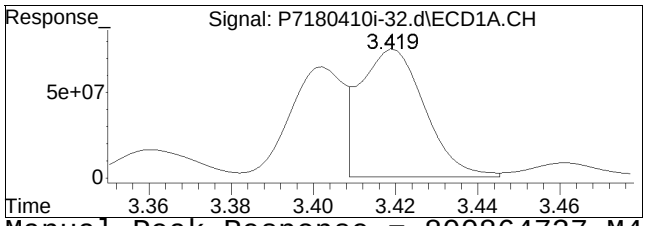




Original Peak Response = 238888188 Manual Peak Response = 241747313 M4
M4 = Poor automated baseline construction.

Compound #6: 1016-3





Original Peak Response = 1381143078 Manual Peak Response = 800864737 M4
M4 = Poor automated baseline construction.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-33.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 10 Apr 2018 10:42 pm
Operator : pest7:kb
Sample   : cicv2154,42e,,8283
Misc   : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 32 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 13:51:47 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 13:41:44 2018
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	250.000	250.000	0.0	98	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen	160.000	189.162	-18.2#	115	0.00
3	s	Decachlorobiphenyl	320.000	348.155	-8.8	111	0.00
13	i	2154_1br2nb	250.000	250.000	0.0	99	0.00
14	l3	1221-1	2500.000	2349.290	6.0	97	0.00
15	l3	1221-2	2500.000	2261.165	9.6	94	0.00
16	l3	1221-3	2500.000	2261.117	9.6	93	0.00
17	l4	1254-1	2500.000	2281.518	8.7	93	0.00
18	l4	1254-2	2500.000	2312.963	7.5	95	0.00
19	l4	1254-3	2500.000	2343.792	6.2	94	0.00
20	l4	1254-4	2500.000	2350.968	6.0	95	0.00
21	l4	1254-5	2500.000	2281.343	8.7	90	0.00
22	i	4268_1br2nb	250.000	250.000	0.0	107	0.00
33	i	1248_1br2nb	250.000	250.000	0.0	102	0.00
39	i	3262_1br2nb	250.000	250.000	0.0	102	0.00

Signal #2

1	i	1660_1br2nb	250.000	250.000	0.0	99	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl	160.000	182.043	-13.8	114	0.00
3	s	Decachlorobiphenyl	320.000	339.648	-6.1	111	0.00
13	i	2154_1br2nb	250.000	250.000	0.0	98	0.00
14	l3	1221-1	2500.000	2301.409	7.9	97	0.00
15	l3	1221-2	2500.000	2224.145	11.0	95	0.00
16	l3	1221-3	2500.000	2259.102	9.6	95	0.00

Evaluate Continuing Calibration Report

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-33.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 10 Apr 2018 10:42 pm
Operator : pest7:kb
Sample   : cicv2154,42e,,8283
Misc   : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 32 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 13:51:47 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 13:41:44 2018
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
17	l4	1254-1	2500.000	2297.648	8.1	94	0.00
18	l4	1254-2	2500.000	2200.711	12.0	91	0.00
19	l4	1254-3	2500.000	2526.025	-1.0	103	0.00
20	l4	1254-4	2500.000	2312.070	7.5	95	0.00
21	l4	1254-5	2500.000	2213.283	11.5	92	0.00
22	i	4268_1br2nb	250.000	250.000	0.0	106	0.00
33	i	1248_1br2nb	250.000	250.000	0.0	101	0.00
39	i	3262_1br2nb	250.000	250.000	0.0	102	0.00

Evaluate Continuing Calibration Report - Not Founds

4	l1	1016-2	2500.000	0.000	100.0#	0	-3.07#
5	l1	1016-3	2500.000	0.000	100.0#	0	-3.42#
6	l1	1016-4	2500.000	0.000	100.0#	0	-3.52#
7	l1	1016-5	2500.000	0.000	100.0#	0	-3.85#
8	l2	1260-1	2500.000	0.000	100.0#	0	-4.80#
9	l2	1260-2	2500.000	0.000	100.0#	0	-5.01#
10	l2	1260-3	2500.000	0.000	100.0#	0	-5.47#
11	l2	1260-4	2500.000	0.000	100.0#	0	-5.68#
12	l2	1260-5	2500.000	0.000	100.0#	0	-5.88#
23	l6	1242-1	2500.000	0.000	100.0#	0	-3.07#
24	l6	1242-2	2500.000	0.000	100.0#	0	-3.42#
25	l6	1242-3	2500.000	0.000	100.0#	0	-3.52#
26	l6	1242-4	2500.000	0.000	100.0#	0	-3.85#
27	l6	1242-5	2500.000	0.000	100.0#	0	-4.19#
28	l9	1268-1	2500.000	0.000	100.0#	0	-5.90#
29	l9	1268-2	2500.000	0.000	100.0#	0	-5.93#
30	l9	1268-3	2500.000	0.000	100.0#	0	-6.06#

Evaluate Continuing Calibration Report

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-33.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 10 Apr 2018 10:42 pm
Operator : pest7:kb
Sample   : cicv2154,42e,,8283
Misc   : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 32 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 13:51:47 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 13:41:44 2018
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
31	l9 1268-4	2500.000	0.000	100.0#	0	-6.29#
32	l9 1268-5	2500.000	0.000	100.0#	0	-6.48#
34	l7 1248-1	2500.000	0.000	100.0#	0	-3.66#
35	l7 1248-2	2500.000	0.000	100.0#	0	-3.85#
36	l7 1248-3	2500.000	0.000	100.0#	0	-4.18#
37	l7 1248-4	2500.000	0.000	100.0#	0	-4.21#
38	l7 1248-5	2500.000	0.000	100.0#	0	-4.36#
40	l5 1232-1	2500.000	0.000	100.0#	0	-2.82#
41	l5 1232-2	2500.000	0.000	100.0#	0	-3.07#
42	l5 1232-3	2500.000	0.000	100.0#	0	-3.42#
43	l5 1232-4	2500.000	0.000	100.0#	0	-3.85#
44	l5 1232-5	2500.000	0.000	100.0#	0	-4.21#
45	l8 1262-1	2500.000	0.000	100.0#	0	-5.01#
46	l8 1262-2	2500.000	0.000	100.0#	0	-5.29#
47	l8 1262-3	2500.000	0.000	100.0#	0	-5.47#
48	l8 1262-4	2500.000	0.000	100.0#	0	-5.68#
49	l8 1262-5	2500.000	0.000	100.0#	0	-6.29#

Signal #2

4	l1 1016-2	2500.000	0.000	100.0#	0	-3.56#
5	l1 1016-3	2500.000	0.000	100.0#	0	-3.96#
6	l1 1016-4	2500.000	0.000	100.0#	0	-4.07#
7	l1 1016-5	2500.000	0.000	100.0#	0	-4.45#
8	l2 1260-1	2500.000	0.000	100.0#	0	-5.42#
9	l2 1260-2	2500.000	0.000	100.0#	0	-5.56#
10	l2 1260-3	2500.000	0.000	100.0#	0	-6.08#
11	l2 1260-4	2500.000	0.000	100.0#	0	-6.24#
12	l2 1260-5	2500.000	0.000	100.0#	0	-6.49#
23	l6 1242-1	2500.000	0.000	100.0#	0	-3.56#
24	l6 1242-2	2500.000	0.000	100.0#	0	-3.96#

Evaluate Continuing Calibration Report

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-33.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 10 Apr 2018 10:42 pm
Operator : pest7:kb
Sample   : cicv2154,42e,,8283
Misc   : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 32 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 13:51:47 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 13:41:44 2018
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
25	l6 1242-3	2500.000	0.000	100.0#	0	-4.07#
26	l6 1242-4	2500.000	0.000	100.0#	0	-4.45#
27	l6 1242-5	2500.000	0.000	100.0#	0	-4.75#
28	l9 1268-1	2500.000	0.000	100.0#	0	-6.48#
29	l9 1268-2	2500.000	0.000	100.0#	0	-6.51#
30	l9 1268-3	2500.000	0.000	100.0#	0	-6.68#
31	l9 1268-4	2500.000	0.000	100.0#	0	-6.86#
32	l9 1268-5	2500.000	0.000	100.0#	0	-7.08#
34	l7 1248-1	2500.000	0.000	100.0#	0	-4.23#
35	l7 1248-2	2500.000	0.000	100.0#	0	-4.45#
36	l7 1248-3	2500.000	0.000	100.0#	0	-4.75#
37	l7 1248-4	2500.000	0.000	100.0#	0	-4.79#
38	l7 1248-5	2500.000	0.000	100.0#	0	-4.97#
40	l5 1232-1	2500.000	0.000	100.0#	0	-3.24#
41	l5 1232-2	2500.000	0.000	100.0#	0	-3.56#
42	l5 1232-3	2500.000	0.000	100.0#	0	-3.96#
43	l5 1232-4	2500.000	0.000	100.0#	0	-4.45#
44	l5 1232-5	2500.000	0.000	100.0#	0	-4.75#
45	l8 1262-1	2500.000	0.000	100.0#	0	-5.56#
46	l8 1262-2	2500.000	0.000	100.0#	0	-5.88#
47	l8 1262-3	2500.000	0.000	100.0#	0	-6.08#
48	l8 1262-4	2500.000	0.000	100.0#	0	-6.24#
49	l8 1262-5	2500.000	0.000	100.0#	0	-6.48#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-33.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 10:42 pm
Operator : pest7:kb
Sample : cicv2154,42e,,8283
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 32 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 13:51:47 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 13:41:44 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	2.103	2.232	429.9E6	331.9E6	250.000	250.000
13) i	2154_1br2nb	2.103	2.232	429.9E6	331.9E6	250.000	250.000
22) i	4268_1br2nb	2.103	2.232	429.9E6	331.9E6	250.000	250.000
33) i	1248_1br2nb	2.103	2.232	429.9E6	331.9E6	250.000	250.000
39) i	3262_1br2nb	2.103	2.232	429.9E6	331.9E6	250.000	250.000
	System Monitoring Compounds						
2) s	2,4,5,6-T...	2.584	2.866	390.8E6	278.2E6	189.162	182.043
Spiked Amount	500.000	Range 30 - 150		Recovery =		37.83%	36.41%
3) s	Decachlor...	6.599	7.245	492.9E6	340.5E6	348.155	339.648
Spiked Amount	500.000	Range 30 - 150		Recovery =		69.63%	67.93%
	Target Compounds						
4) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016-2			0	0	N.D.	N.D.
Average	1016-2					0.000	0.000
8) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
9) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260-1			0	0	N.D.	N.D.
Average	1260-1					0.000	0.000
14) l3	1221-1	2.692	3.076	51565531	41239090	2349.290	2301.409
15) l3	1221-2	2.792	3.187	31083273	25588495	2261.165M4	2224.145
16) l3	1221-3	2.821	3.236	110.3E6	92124209	2261.117M4	2259.102
Sum	1221-1			193.0E6	159.0E6	6871.571	6784.656

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-33.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 10:42 pm
Operator : pest7:kb
Sample : cicv2154,42e,,8283
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 32 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 13:51:47 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 13:41:44 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1221-1					2290.524	2261.552
17) l4	1254-1	4.152	4.786	176.8E6	140.3E6	2281.518M4	2297.648
18) l4	1254-2	4.354	4.926	304.9E6	150.0E6	2312.963M4	2200.711
19) l4	1254-3	4.665	5.278	289.3E6	232.4E6	2343.792M4	2526.025
20) l4	1254-4	4.874	5.438	213.6E6	148.4E6	2350.968	2312.070
21) l4	1254-5	5.215	5.818	295.1E6	194.8E6	2281.343	2213.283
Sum	1254-1			1279.7E6	865.8E6	11570.584	11549.737
Average	1254-1					2314.117	2309.947
23) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
24) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
28) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
29) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
34) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-33.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 10:42 pm
Operator : pest7:kb
Sample : cicv2154,42e,,8283
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 32 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 13:51:47 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 13:41:44 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
40) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
41) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
45) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
46) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

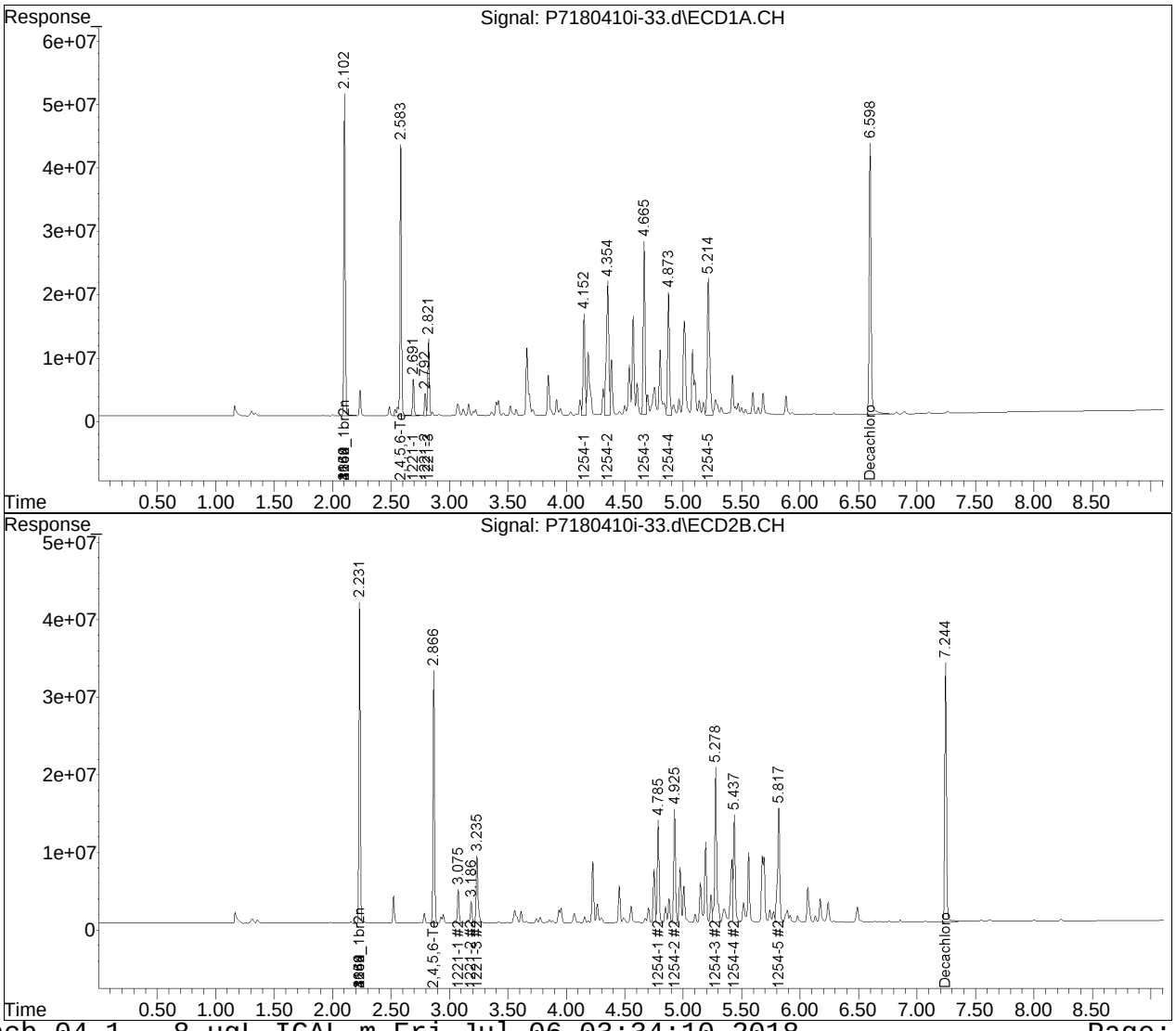
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-33.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 10:42 pm
Operator : pest7:kb
Sample : cicv2154,42e,,8283
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 32 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 13:51:47 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Fri May 18 13:41:44 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

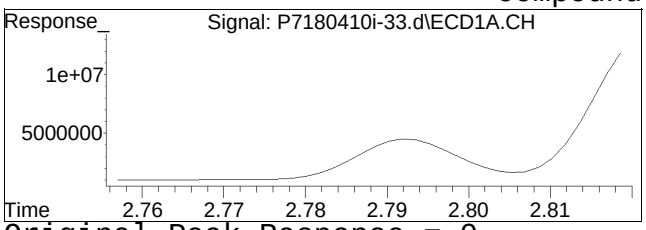


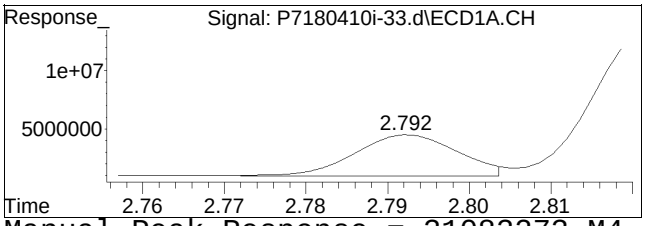
Manual Integration/Negative Proof Report

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-33.d
Date Inj'd : 4/10/2018 10:42 pm
Sample : cicv2154,42e,,8283

QMethod : P7_pcb_04_10_18_ugL_IC
Operator : pest7:kb
Instrument : Pest 7
Quant Date : 5/18/2018 1:47 pm

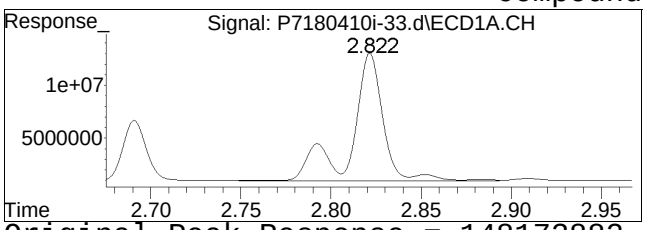
Compound #15: 1221-2

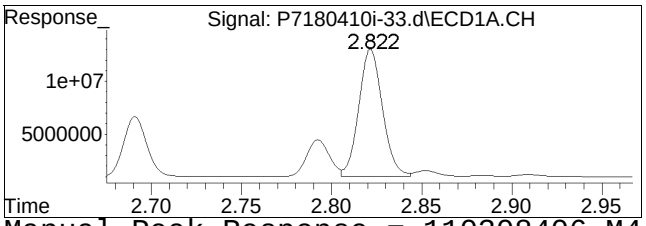




Original Peak Response = 0 Manual Peak Response = 31083273 M4
M4 = Poor automated baseline construction.

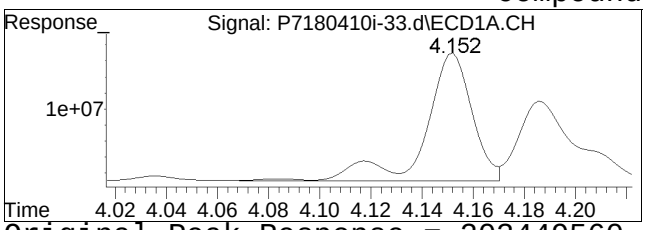
Compound #16: 1221-3

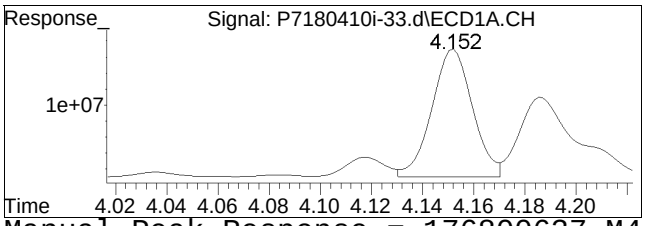




Original Peak Response = 148173882 Manual Peak Response = 110308406 M4
M4 = Poor automated baseline construction.

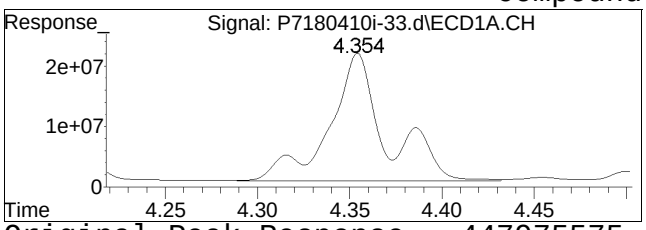
Compound #17: 1254-1

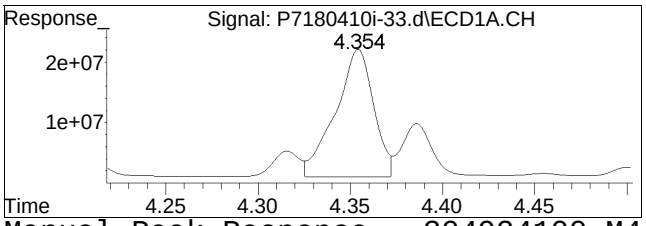




Original Peak Response = 203449560 Manual Peak Response = 176800637 M4
M4 = Poor automated baseline construction.

Compound #18: 1254-2





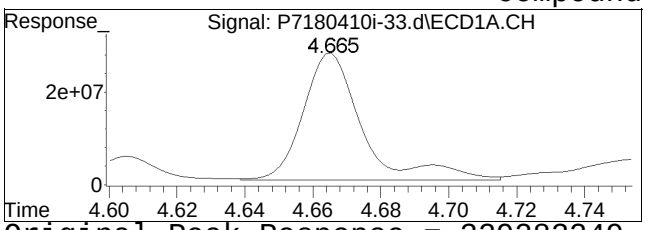
Original Peak Response = 447975575 Manual Peak Response = 304924100 M4
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

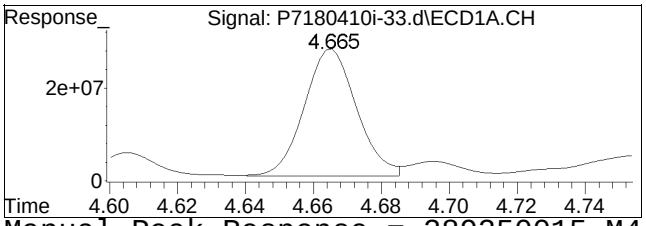
Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-33.d
Date Inj'd : 4/10/2018 10:42 pm
Sample : cicv2154,42e,,8283

QMethod : P7_pcb_04_10_18_ugL_IC
Operator : pest7:kb
Instrument : Pest 7
Quant Date : 5/18/2018 1:47 pm

Compound #19: 1254-3



Original Peak Response = 329283249



Manual Peak Response = 289250015 M4

M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-34.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 10 Apr 2018 10:55 pm
Operator : pest7:kb
Sample   : cicv4268,42e,,8285
Misc   : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 33 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 30 10:05:05 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 30 10:04:58 2018
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	250.000	250.000	0.0	100	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen	160.000	176.164	-10.1	109	0.00
3	s	Decachlorobiphenyl	320.000	519.676	-62.4#	169	0.00
13	i	2154_1br2nb	250.000	250.000	0.0	101	0.00
22	i	4268_1br2nb	250.000	250.000	0.0	109	0.00
23	l6	1242-1	2500.000	2058.334	17.7#	99	0.00
24	l6	1242-2	2500.000	2222.389	11.1	97	0.00
25	l6	1242-3	2500.000	2143.178	14.3	95	0.00
26	l6	1242-4	2500.000	2086.674	16.5#	97	0.00
27	l6	1242-5	2500.000	2199.220	12.0	102	0.00
28	l9	1268-1	2500.000	2295.006	8.2	97	0.00
29	l9	1268-2	2500.000	2126.430	14.9	88	0.00
30	l9	1268-3	2500.000	2491.503	0.3	108	0.00
31	l9	1268-4	2500.000	2282.352	8.7	101	0.00
32	l9	1268-5	2500.000	2617.434	-4.7	115	0.00
33	i	1248_1br2nb	250.000	250.000	0.0	104	0.00
39	i	3262_1br2nb	250.000	250.000	0.0	104	0.00

Signal #2

1	i	1660_1br2nb	250.000	250.000	0.0	100	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl	160.000	174.486	-9.1	111	0.00
3	s	Decachlorobiphenyl	320.000	505.333	-57.9#	167	0.00
13	i	2154_1br2nb	250.000	250.000	0.0	99	0.00

Evaluate Continuing Calibration Report

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-34.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 10 Apr 2018 10:55 pm
Operator : pest7:kb
Sample   : cicv4268,42e,,8285
Misc   : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 33 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 30 10:05:05 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 30 10:04:58 2018
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
22	i	4268_1br2nb	250.000	250.000	0.0	107	0.00
23	l6	1242-1	2500.000	2088.368	16.5#	98	0.00
24	l6	1242-2	2500.000	2183.892	12.6	97	0.00
25	l6	1242-3	2500.000	2137.069	14.5	98	0.00
26	l6	1242-4	2500.000	2070.585	17.2#	97	0.00
27	l6	1242-5	2500.000	2168.732	13.3	102	0.00
28	l9	1268-1	2500.000	2226.269	10.9	99	0.00
29	l9	1268-2	2500.000	2029.874	18.8#	90	0.00
30	l9	1268-3	2500.000	2473.516	1.1	111	0.00
31	l9	1268-4	2500.000	2243.013	10.3	102	0.00
32	l9	1268-5	2500.000	2657.776	-6.3	116	0.00
33	i	1248_1br2nb	250.000	250.000	0.0	103	0.00
39	i	3262_1br2nb	250.000	250.000	0.0	104	0.00

Evaluate Continuing Calibration Report - Not Founds

4	l1	1016-2	2500.000	0.000	100.0#	0	-3.07#
5	l1	1016-3	2500.000	0.000	100.0#	0	-3.42#
6	l1	1016-4	2500.000	0.000	100.0#	0	-3.52#
7	l1	1016-5	2500.000	0.000	100.0#	0	-3.85#
8	l2	1260-1	2500.000	0.000	100.0#	0	-4.80#
9	l2	1260-2	2500.000	0.000	100.0#	0	-5.01#
10	l2	1260-3	2500.000	0.000	100.0#	0	-5.47#
11	l2	1260-4	2500.000	0.000	100.0#	0	-5.68#
12	l2	1260-5	2500.000	0.000	100.0#	0	-5.88#
14	l3	1221-1	2500.000	0.000	100.0#	0	-2.69#
15	l3	1221-2	2500.000	0.000	100.0#	0	-2.79#
16	l3	1221-3	2500.000	0.000	100.0#	0	-2.82#
17	l4	1254-1	2500.000	0.000	100.0#	0	-4.15#

Evaluate Continuing Calibration Report

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-34.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 10 Apr 2018 10:55 pm
Operator : pest7:kb
Sample   : cicv4268,42e,,8285
Misc   : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 33 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 30 10:05:05 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 30 10:04:58 2018
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
18 l4	1254-2	2500.000	0.000	100.0#	0	-4.35#
19 l4	1254-3	2500.000	0.000	100.0#	0	-4.66#
20 l4	1254-4	2500.000	0.000	100.0#	0	-4.87#
21 l4	1254-5	2500.000	0.000	100.0#	0	-5.21#
34 l7	1248-1	2500.000	0.000	100.0#	0	-3.66#
35 l7	1248-2	2500.000	0.000	100.0#	0	-3.85#
36 l7	1248-3	2500.000	0.000	100.0#	0	-4.18#
37 l7	1248-4	2500.000	0.000	100.0#	0	-4.21#
38 l7	1248-5	2500.000	0.000	100.0#	0	-4.36#
40 l5	1232-1	2500.000	0.000	100.0#	0	-2.82#
41 l5	1232-2	2500.000	0.000	100.0#	0	-3.07#
42 l5	1232-3	2500.000	0.000	100.0#	0	-3.42#
43 l5	1232-4	2500.000	0.000	100.0#	0	-3.85#
44 l5	1232-5	2500.000	0.000	100.0#	0	-4.21#
45 l8	1262-1	2500.000	0.000	100.0#	0	-5.01#
46 l8	1262-2	2500.000	0.000	100.0#	0	-5.29#
47 l8	1262-3	2500.000	0.000	100.0#	0	-5.47#
48 l8	1262-4	2500.000	0.000	100.0#	0	-5.68#
49 l8	1262-5	2500.000	0.000	100.0#	0	-6.29#

Signal #2

4 l1	1016-2	2500.000	0.000	100.0#	0	-3.56#
5 l1	1016-3	2500.000	0.000	100.0#	0	-3.96#
6 l1	1016-4	2500.000	0.000	100.0#	0	-4.07#
7 l1	1016-5	2500.000	0.000	100.0#	0	-4.45#
8 l2	1260-1	2500.000	0.000	100.0#	0	-5.42#
9 l2	1260-2	2500.000	0.000	100.0#	0	-5.56#
10 l2	1260-3	2500.000	0.000	100.0#	0	-6.08#
11 l2	1260-4	2500.000	0.000	100.0#	0	-6.24#
12 l2	1260-5	2500.000	0.000	100.0#	0	-6.49#

Evaluate Continuing Calibration Report

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-34.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 10 Apr 2018 10:55 pm
Operator : pest7:kb
Sample   : cicv4268,42e,,8285
Misc   : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 33 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 30 10:05:05 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 30 10:04:58 2018
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
14 l3	1221-1	2500.000	0.000	100.0#	0	-3.08#
15 l3	1221-2	2500.000	0.000	100.0#	0	-3.19#
16 l3	1221-3	2500.000	0.000	100.0#	0	-3.24#
17 l4	1254-1	2500.000	0.000	100.0#	0	-4.79#
18 l4	1254-2	2500.000	0.000	100.0#	0	-4.93#
19 l4	1254-3	2500.000	0.000	100.0#	0	-5.28#
20 l4	1254-4	2500.000	0.000	100.0#	0	-5.44#
21 l4	1254-5	2500.000	0.000	100.0#	0	-5.82#
34 l7	1248-1	2500.000	0.000	100.0#	0	-4.23#
35 l7	1248-2	2500.000	0.000	100.0#	0	-4.45#
36 l7	1248-3	2500.000	0.000	100.0#	0	-4.75#
37 l7	1248-4	2500.000	0.000	100.0#	0	-4.79#
38 l7	1248-5	2500.000	0.000	100.0#	0	-4.97#
40 l5	1232-1	2500.000	0.000	100.0#	0	-3.24#
41 l5	1232-2	2500.000	0.000	100.0#	0	-3.56#
42 l5	1232-3	2500.000	0.000	100.0#	0	-3.96#
43 l5	1232-4	2500.000	0.000	100.0#	0	-4.45#
44 l5	1232-5	2500.000	0.000	100.0#	0	-4.75#
45 l8	1262-1	2500.000	0.000	100.0#	0	-5.56#
46 l8	1262-2	2500.000	0.000	100.0#	0	-5.88#
47 l8	1262-3	2500.000	0.000	100.0#	0	-6.08#
48 l8	1262-4	2500.000	0.000	100.0#	0	-6.24#
49 l8	1262-5	2500.000	0.000	100.0#	0	-6.48#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-34.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 10:55 pm
Operator : pest7:kb
Sample : cicv4268,42e,,8285
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 33 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 30 10:05:05 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 30 10:04:58 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	2.103	2.232	437.0E6	336.8E6	250.000	250.000
13) i	2154_1br2nb	2.103f	2.232	437.0E6	336.8E6	250.000	250.000
22) i	4268_1br2nb	2.103	2.232	437.0E6	336.8E6	250.000	250.000
33) i	1248_1br2nb	2.103f	2.232f	437.0E6	336.8E6	250.000	250.000
39) i	3262_1br2nb	2.103f	2.232	437.0E6	336.8E6	250.000	250.000
	System Monitoring Compounds						
2) s	2,4,5,6-T...	2.584	2.867	370.0E6	270.5E6	176.164	174.486
	Spiked Amount 500.000	Range 30 - 150		Recovery =		35.23%	34.90%
3) s	Decachlor...	6.598	7.245	747.8E6	514.1E6	519.676	505.333
	Spiked Amount 500.000	Range 30 - 150		Recovery =		103.94%	101.07%
	Target Compounds						
4) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-2			0	0	N.D.	N.D.
	Average 1016-2					0.000	0.000
8) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
9) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
14) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1221-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-34.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 10:55 pm
Operator : pest7:kb
Sample : cicv4268,42e,,8285
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 33 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 30 10:05:05 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 30 10:04:58 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1221-1					0.000	0.000
17) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
18) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
23) l6	1242-1	3.071	3.563	153.6E6	123.1E6	2058.334	2088.368
24) l6	1242-2	3.419	3.955	178.0E6	137.2E6	2222.389	2183.892
25) l6	1242-3	3.522	4.069	126.7E6	90719924	2143.178	2137.069
26) l6	1242-4	3.847	4.453	143.2E6	74496901	2086.674	2070.585
27) l6	1242-5	4.186	4.750	101.1E6	72774757	2199.220	2168.732
Sum	1242-1			702.6E6	498.4E6	10709.795	10648.647
Average	1242-1					2141.959	2129.729
28) l9	1268-1	5.900	6.480	598.3E6	409.6E6	2295.006	2226.269
29) l9	1268-2	5.927	6.512	587.0E6	383.6E6	2126.430	2029.874
30) l9	1268-3	6.057	6.682	473.5E6	321.6E6	2491.503	2473.516
31) l9	1268-4	6.289	6.858	196.9E6	132.1E6	2282.352	2243.013
32) l9	1268-5	6.475	7.073	1276.7E6	907.1E6	2617.434	2657.776
Sum	1268-1			3132.3E6	2153.9E6	11812.725	11630.447
Average	1268-1					2362.545	2326.089
34) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-34.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 10:55 pm
Operator : pest7:kb
Sample : cicv4268,42e,,8285
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 33 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 30 10:05:05 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 30 10:04:58 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
40) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
41) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
45) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
46) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

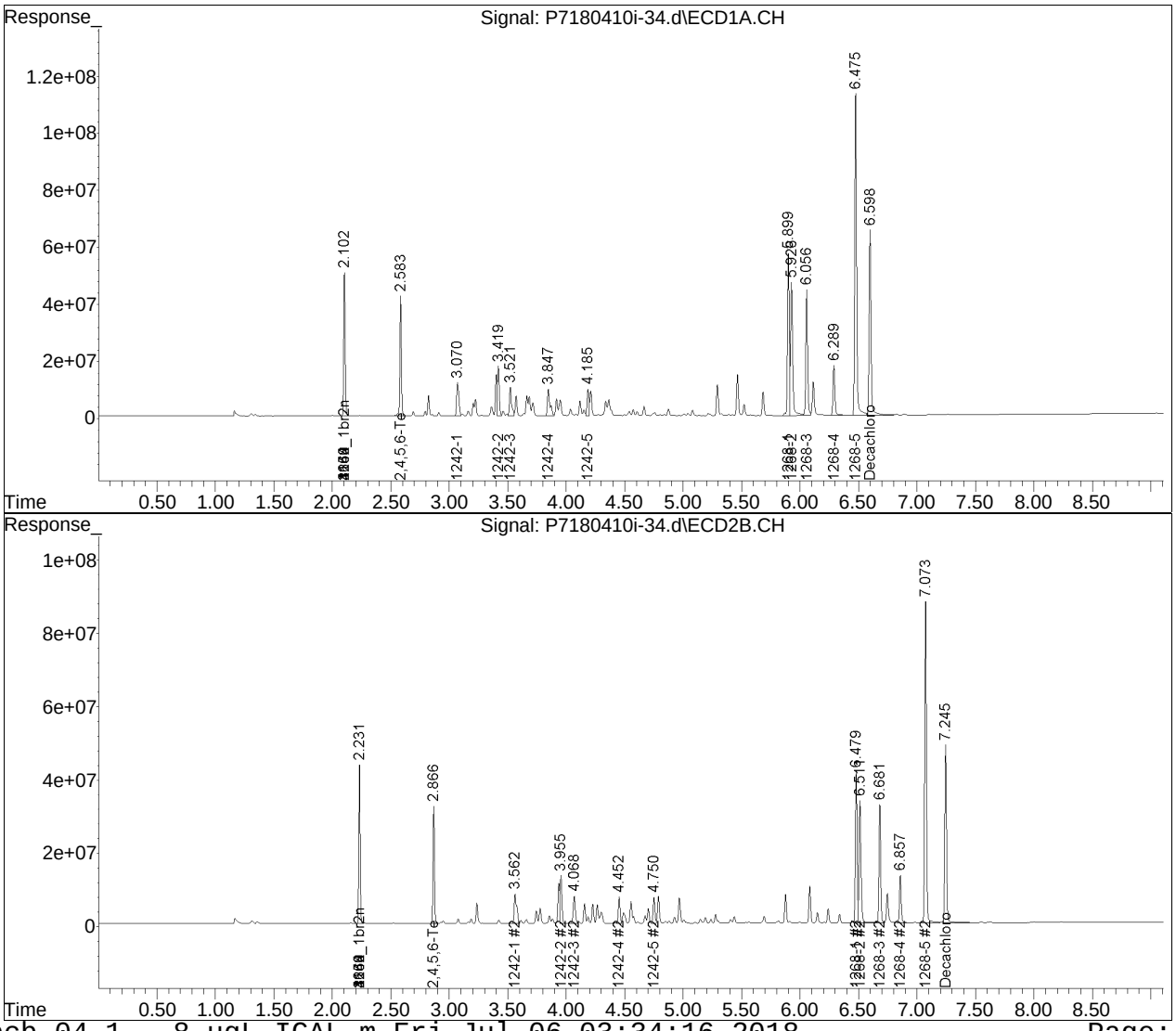
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-34.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 10:55 pm
Operator : pest7:kb
Sample : cicv4268,42e,,8285
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 33 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 30 10:05:05 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 30 10:04:58 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration/Negative Proof Report

Data Path	: I:\Pest7\180410ICAL\	QMethod	: P7_pcb_04_10_18_ugL_IC
Data File	: P7180410i-34.d	Operator	: pest7:kb
Date Inj'd	: 4/10/2018 10:55 pm	Instrument	: Pest 7
Sample	: cicv4268,42e,,8285	Quant Date	: 5/30/2018 10:04 am

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-35.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 10 Apr 2018 11:08 pm
Operator : pest7:kb
Sample   : cicv1248,42e,,8286
Misc   : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 34 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 30 10:06:09 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 30 10:05:57 2018
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	250.000	250.000	0.0	95	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen	160.000	190.785	-19.2#	113	0.00
3	s	Decachlorobiphenyl	320.000	365.839	-14.3	113	0.00
13	i	2154_1br2nb	250.000	250.000	0.0	96	0.00
22	i	4268_1br2nb	250.000	250.000	0.0	104	0.00
33	i	1248_1br2nb	250.000	250.000	0.0	99	0.00
34	l7	1248-1	2500.000	2143.974	14.2	90	0.00
35	l7	1248-2	2500.000	2369.857	5.2	100	0.00
36	l7	1248-3	2500.000	2512.204	-0.5	102	0.00
37	l7	1248-4	2500.000	2525.194	-1.0	104	0.00
38	l7	1248-5	2500.000	2510.395	-0.4	107	0.00
39	i	3262_1br2nb	250.000	250.000	0.0	99	0.00

Signal #2

1	i	1660_1br2nb	250.000	250.000	0.0	95	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl	160.000	192.733	-20.5#	117	0.00
3	s	Decachlorobiphenyl	320.000	357.816	-11.8	113	0.00
13	i	2154_1br2nb	250.000	250.000	0.0	95	0.00
22	i	4268_1br2nb	250.000	250.000	0.0	102	0.00
33	i	1248_1br2nb	250.000	250.000	0.0	98	0.00
34	l7	1248-1	2500.000	2252.198	9.9	99	0.00
35	l7	1248-2	2500.000	2350.336	6.0	102	0.00

Evaluate Continuing Calibration Report

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-35.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 10 Apr 2018 11:08 pm
Operator : pest7:kb
Sample   : cicv1248,42e,,8286
Misc   : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 34 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 30 10:06:09 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 30 10:05:57 2018
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
36	l7	1248-3	2500.000	2474.807	1.0	107	0.00
37	l7	1248-4	2500.000	2503.129	-0.1	108	0.00
38	l7	1248-5	2500.000	2618.160	-4.7	113	0.00
39	i	3262_1br2nb	250.000	250.000	0.0	99	0.00

Evaluate Continuing Calibration Report - Not Founds

4	l1	1016-2	2500.000	0.000	100.0#	0	-3.07#
5	l1	1016-3	2500.000	0.000	100.0#	0	-3.42#
6	l1	1016-4	2500.000	0.000	100.0#	0	-3.52#
7	l1	1016-5	2500.000	0.000	100.0#	0	-3.85#
8	l2	1260-1	2500.000	0.000	100.0#	0	-4.80#
9	l2	1260-2	2500.000	0.000	100.0#	0	-5.01#
10	l2	1260-3	2500.000	0.000	100.0#	0	-5.47#
11	l2	1260-4	2500.000	0.000	100.0#	0	-5.68#
12	l2	1260-5	2500.000	0.000	100.0#	0	-5.88#
14	l3	1221-1	2500.000	0.000	100.0#	0	-2.69#
15	l3	1221-2	2500.000	0.000	100.0#	0	-2.79#
16	l3	1221-3	2500.000	0.000	100.0#	0	-2.82#
17	l4	1254-1	2500.000	0.000	100.0#	0	-4.15#
18	l4	1254-2	2500.000	0.000	100.0#	0	-4.35#
19	l4	1254-3	2500.000	0.000	100.0#	0	-4.66#
20	l4	1254-4	2500.000	0.000	100.0#	0	-4.87#
21	l4	1254-5	2500.000	0.000	100.0#	0	-5.21#
23	l6	1242-1	2500.000	0.000	100.0#	0	-3.07#
24	l6	1242-2	2500.000	0.000	100.0#	0	-3.42#
25	l6	1242-3	2500.000	0.000	100.0#	0	-3.52#
26	l6	1242-4	2500.000	0.000	100.0#	0	-3.85#
27	l6	1242-5	2500.000	0.000	100.0#	0	-4.19#
28	l9	1268-1	2500.000	0.000	100.0#	0	-5.90#

Evaluate Continuing Calibration Report

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-35.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 10 Apr 2018 11:08 pm
Operator : pest7:kb
Sample   : cicv1248,42e,,8286
Misc   : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 34 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 30 10:06:09 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 30 10:05:57 2018
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
29	l9 1268-2	2500.000	0.000	100.0#	0	-5.93#
30	l9 1268-3	2500.000	0.000	100.0#	0	-6.06#
31	l9 1268-4	2500.000	0.000	100.0#	0	-6.29#
32	l9 1268-5	2500.000	0.000	100.0#	0	-6.48#
40	l5 1232-1	2500.000	0.000	100.0#	0	-2.82#
41	l5 1232-2	2500.000	0.000	100.0#	0	-3.07#
42	l5 1232-3	2500.000	0.000	100.0#	0	-3.42#
43	l5 1232-4	2500.000	0.000	100.0#	0	-3.85#
44	l5 1232-5	2500.000	0.000	100.0#	0	-4.21#
45	l8 1262-1	2500.000	0.000	100.0#	0	-5.01#
46	l8 1262-2	2500.000	0.000	100.0#	0	-5.29#
47	l8 1262-3	2500.000	0.000	100.0#	0	-5.47#
48	l8 1262-4	2500.000	0.000	100.0#	0	-5.68#
49	l8 1262-5	2500.000	0.000	100.0#	0	-6.29#

Signal #2

4	l1 1016-2	2500.000	0.000	100.0#	0	-3.56#
5	l1 1016-3	2500.000	0.000	100.0#	0	-3.96#
6	l1 1016-4	2500.000	0.000	100.0#	0	-4.07#
7	l1 1016-5	2500.000	0.000	100.0#	0	-4.45#
8	l2 1260-1	2500.000	0.000	100.0#	0	-5.42#
9	l2 1260-2	2500.000	0.000	100.0#	0	-5.56#
10	l2 1260-3	2500.000	0.000	100.0#	0	-6.08#
11	l2 1260-4	2500.000	0.000	100.0#	0	-6.24#
12	l2 1260-5	2500.000	0.000	100.0#	0	-6.49#
14	l3 1221-1	2500.000	0.000	100.0#	0	-3.08#
15	l3 1221-2	2500.000	0.000	100.0#	0	-3.19#
16	l3 1221-3	2500.000	0.000	100.0#	0	-3.24#
17	l4 1254-1	2500.000	0.000	100.0#	0	-4.79#
18	l4 1254-2	2500.000	0.000	100.0#	0	-4.93#

Evaluate Continuing Calibration Report

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-35.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 10 Apr 2018 11:08 pm
Operator : pest7:kb
Sample   : cicv1248,42e,,8286
Misc   : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 34 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 30 10:06:09 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 30 10:05:57 2018
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
19 l4	1254-3	2500.000	0.000	100.0#	0	-5.28#
20 l4	1254-4	2500.000	0.000	100.0#	0	-5.44#
21 l4	1254-5	2500.000	0.000	100.0#	0	-5.82#
23 l6	1242-1	2500.000	0.000	100.0#	0	-3.56#
24 l6	1242-2	2500.000	0.000	100.0#	0	-3.96#
25 l6	1242-3	2500.000	0.000	100.0#	0	-4.07#
26 l6	1242-4	2500.000	0.000	100.0#	0	-4.45#
27 l6	1242-5	2500.000	0.000	100.0#	0	-4.75#
28 l9	1268-1	2500.000	0.000	100.0#	0	-6.48#
29 l9	1268-2	2500.000	0.000	100.0#	0	-6.51#
30 l9	1268-3	2500.000	0.000	100.0#	0	-6.68#
31 l9	1268-4	2500.000	0.000	100.0#	0	-6.86#
32 l9	1268-5	2500.000	0.000	100.0#	0	-7.08#
40 l5	1232-1	2500.000	0.000	100.0#	0	-3.24#
41 l5	1232-2	2500.000	0.000	100.0#	0	-3.56#
42 l5	1232-3	2500.000	0.000	100.0#	0	-3.96#
43 l5	1232-4	2500.000	0.000	100.0#	0	-4.45#
44 l5	1232-5	2500.000	0.000	100.0#	0	-4.75#
45 l8	1262-1	2500.000	0.000	100.0#	0	-5.56#
46 l8	1262-2	2500.000	0.000	100.0#	0	-5.88#
47 l8	1262-3	2500.000	0.000	100.0#	0	-6.08#
48 l8	1262-4	2500.000	0.000	100.0#	0	-6.24#
49 l8	1262-5	2500.000	0.000	100.0#	0	-6.48#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-35.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 11:08 pm
Operator : pest7:kb
Sample : cicv1248,42e,,8286
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 34 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 30 10:06:09 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 30 10:05:57 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	2.103	2.231	416.1E6	321.6E6	250.000	250.000M4
13) i	2154_1br2nb	2.103f	2.231	416.1E6	321.6E6	250.000	250.000M4
22) i	4268_1br2nb	2.103	2.231	416.1E6	321.6E6	250.000	250.000M4
33) i	1248_1br2nb	2.103	2.231	416.1E6	321.6E6	250.000	250.000M4
39) i	3262_1br2nb	2.103	2.231	416.1E6	321.6E6	250.000	250.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-T...	2.584	2.866	381.6E6	285.3E6	190.785	192.733
Spiked Amount	500.000	Range 30 - 150		Recovery =		38.16%	38.55%
3) s	Decachlor...	6.597	7.242	501.3E6	347.5E6	365.839	357.816
Spiked Amount	500.000	Range 30 - 150		Recovery =		73.17%	71.56%
	Target Compounds						
4) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016-2			0	0	N.D.	N.D.
Average	1016-2					0.000	0.000
8) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
9) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260-1			0	0	N.D.	N.D.
Average	1260-1					0.000	0.000
14) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-35.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 11:08 pm
Operator : pest7:kb
Sample : cicv1248,42e,,8286
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 34 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 30 10:06:09 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 30 10:05:57 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1221-1					0.000	0.000
17) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
18) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
23) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
24) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
28) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
29) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
34) l7	1248-1	3.662	4.226	138.2E6	97779156	2143.974M4	2252.198M4
35) l7	1248-2	3.847	4.452	220.2E6	120.2E6	2369.857	2350.336M4
36) l7	1248-3	4.185	4.749	189.4E6	134.5E6	2512.204M4	2474.807M4
37) l7	1248-4	4.209	4.788	158.2E6	150.7E6	2525.194M4	2503.129M4

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-35.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 11:08 pm
Operator : pest7:kb
Sample : cicv1248,42e,,8286
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 34 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 30 10:06:09 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 30 10:05:57 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound		RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
38) l7	1248-5	4.362	4.968	314.2E6	141.0E6	2510.395	2618.160M4
Sum	1248-1			1020.1E6	644.1E6	12061.623	12198.630
Average	1248-1					2412.325	2439.726
40) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
41) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
45) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
46) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

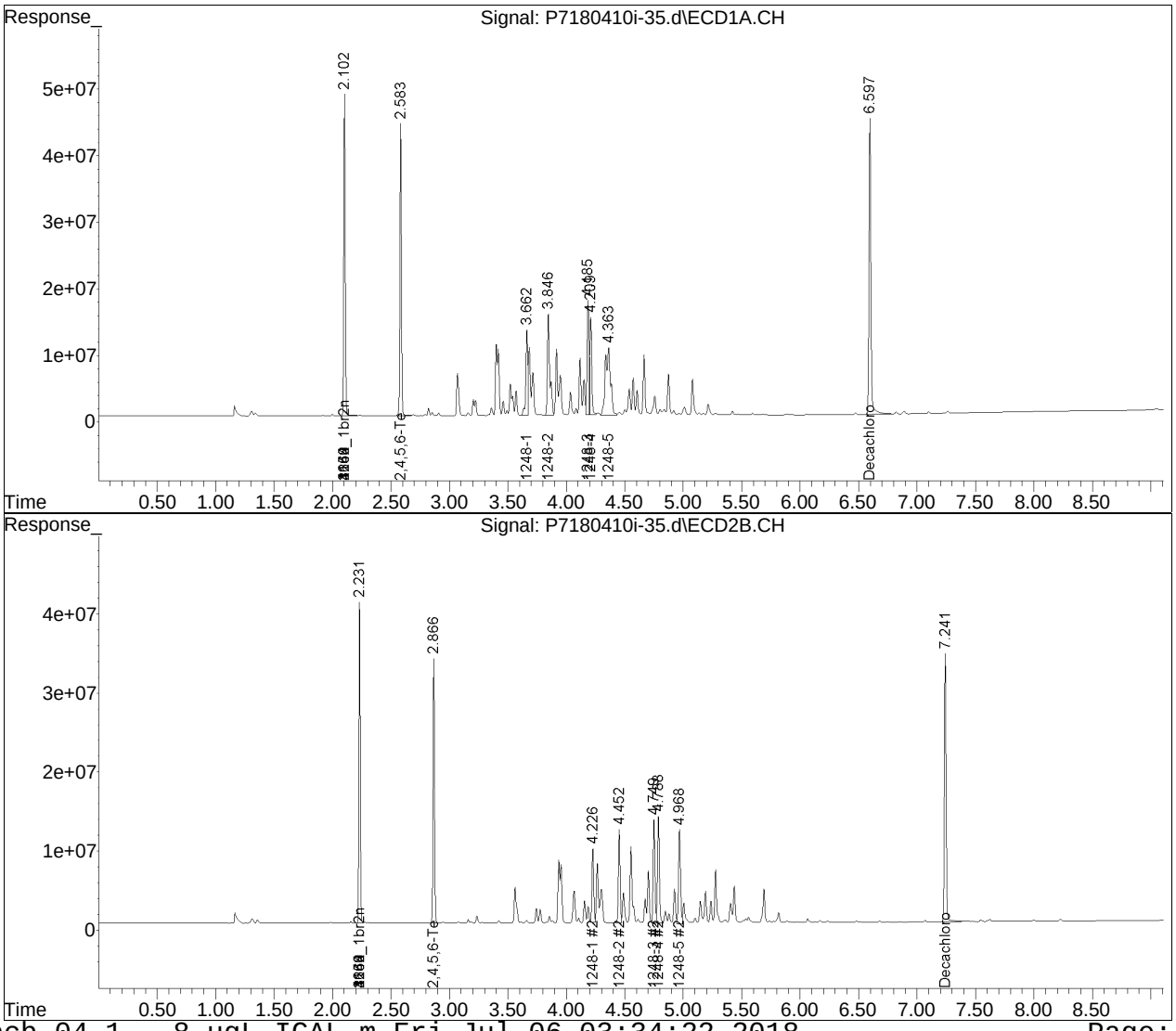
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-35.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 11:08 pm
Operator : pest7:kb
Sample : cicv1248,42e,,8286
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 34 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 30 10:06:09 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 30 10:05:57 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

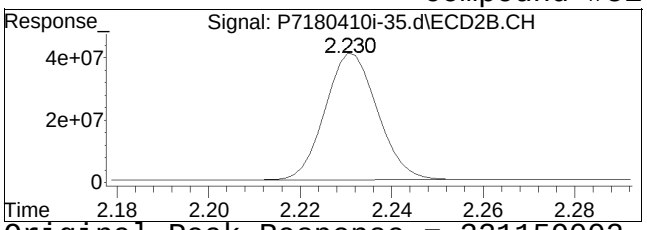


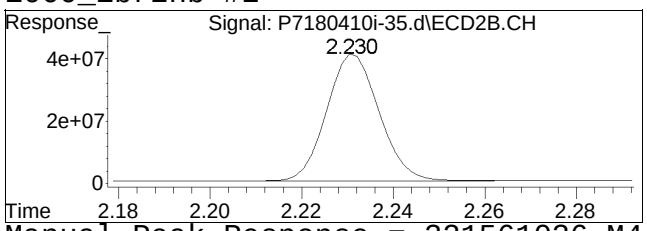
Manual Integration/Negative Proof Report

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-35.d
Date Inj'd : 4/10/2018 11:08 pm
Sample : cicv1248,42e,,8286

QMethod : P7_pcb_04_10_18_ugL_IC
Operator : pest7:kb
Instrument : Pest 7
Quant Date : 5/30/2018 10:05 am

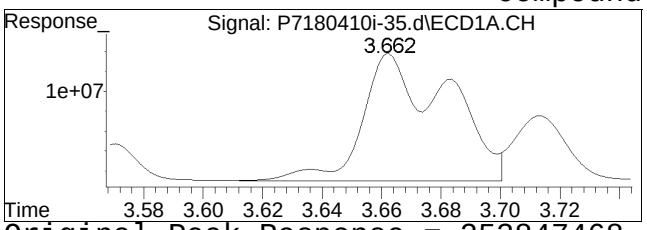
Compound #51: 1660_1br2nb #2

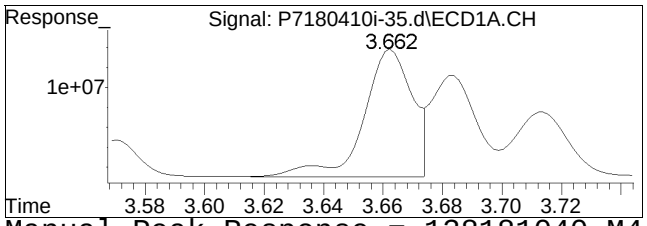




Original Peak Response = 321159002 Manual Peak Response = 321561036 M4
M4 = Poor automated baseline construction.

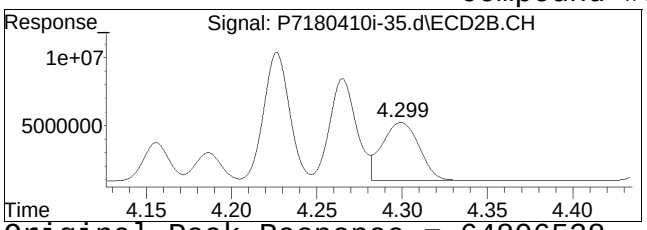
Compound #34: 1248-1

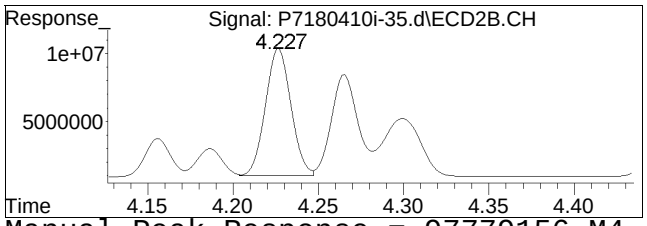




Original Peak Response = 253847468 Manual Peak Response = 138181040 M4
M4 = Poor automated baseline construction.

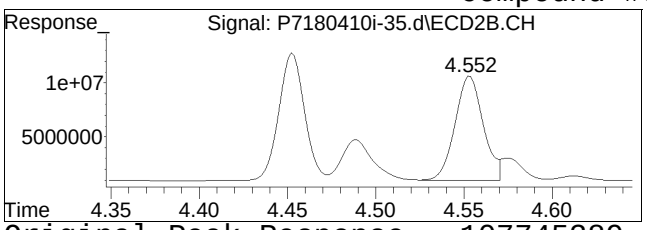
Compound #84: 1248-1 #2

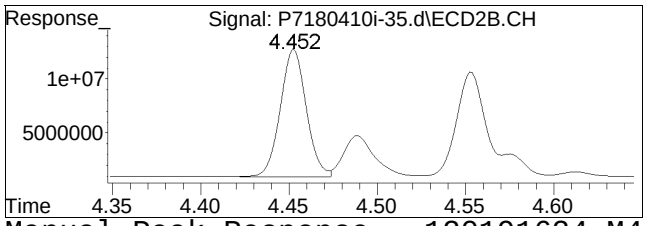




Original Peak Response = 64806538 Manual Peak Response = 97779156 M4
M4 = Poor automated baseline construction.

Compound #85: 1248-2 #2





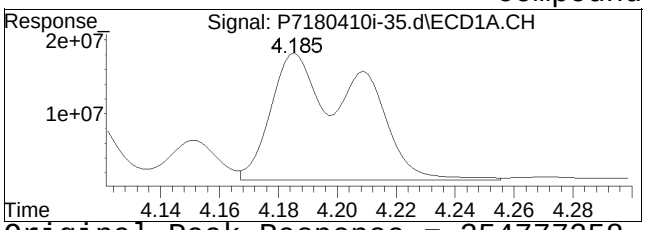
Original Peak Response = 107745389 Manual Peak Response = 120191624 M4
M4 = Poor automated baseline construction.

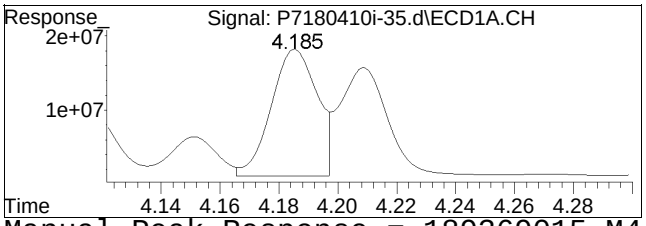
Manual Integration/Negative Proof Report

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-35.d
Date Inj'd : 4/10/2018 11:08 pm
Sample : cicv1248,42e,,8286

QMethod : P7_pcb_04_10_18_ugL_IC
Operator : pest7:kb
Instrument : Pest 7
Quant Date : 5/30/2018 10:05 am

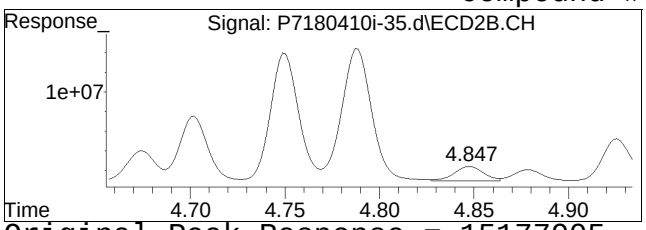
Compound #36: 1248-3

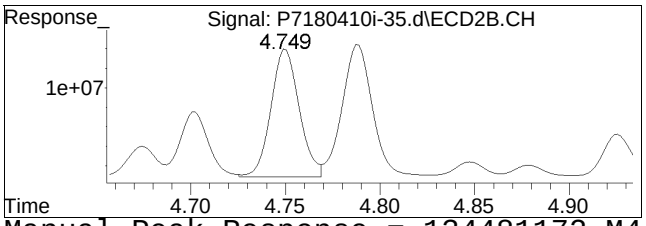




Original Peak Response = 354777258 Manual Peak Response = 189369015 M4
M4 = Poor automated baseline construction.

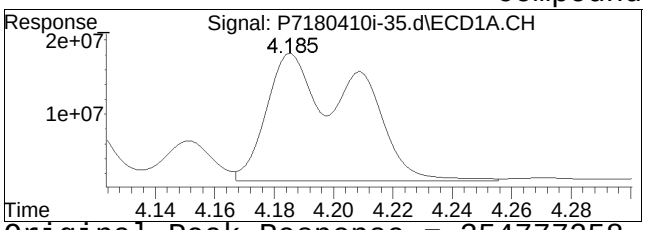
Compound #86: 1248-3 #2

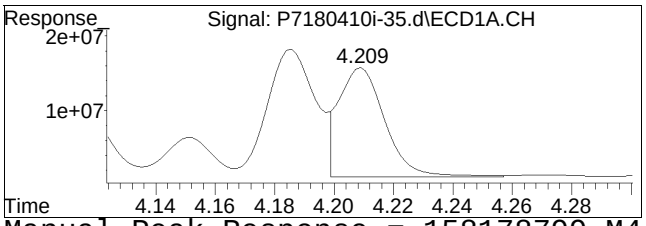




Original Peak Response = 15177905 Manual Peak Response = 134481172 M4
M4 = Poor automated baseline construction.

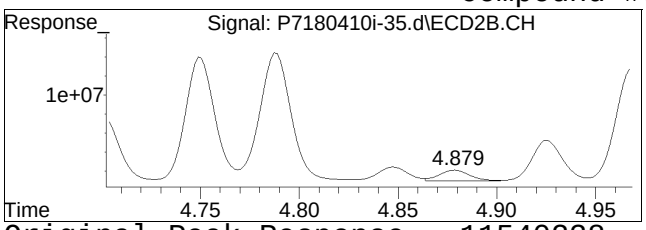
Compound #37: 1248-4

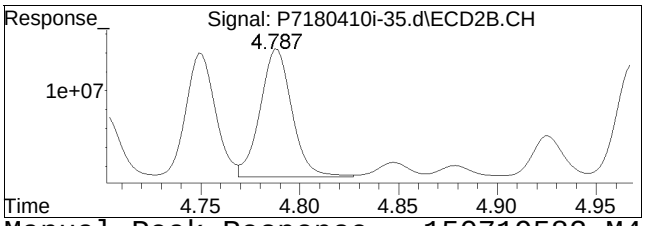




Original Peak Response = 354777258 Manual Peak Response = 158178799 M4
M4 = Poor automated baseline construction.

Compound #87: 1248-4 #2





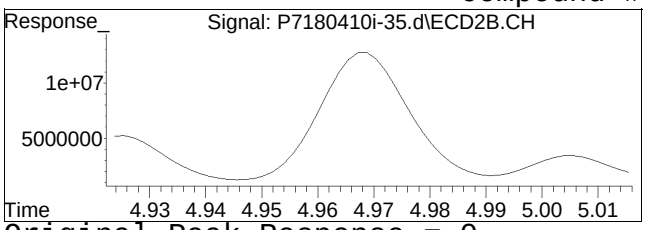
Original Peak Response = 11540238 Manual Peak Response = 150719582 M4
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

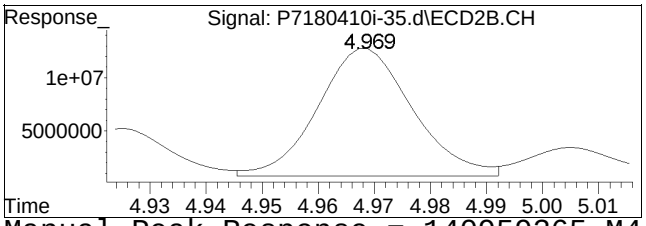
Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-35.d
Date Inj'd : 4/10/2018 11:08 pm
Sample : cicv1248,42e,,8286

QMethod : P7_pcb_04_10_18_ugL_IC
Operator : pest7:kb
Instrument : Pest 7
Quant Date : 5/30/2018 10:05 am

Compound #88: 1248-5 #2



Original Peak Response = 0



Manual Peak Response = 140959365 M4

M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-36.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 10 Apr 2018 11:21 pm
Operator : pest7:kb
Sample   : cicv1660,42e,,8282
Misc   : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 35 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 30 10:06:38 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 30 10:06:26 2018
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	250.000	250.000	0.0	98	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen	160.000	181.482	-13.4	111	0.00
3	s	Decachlorobiphenyl	320.000	341.605	-6.8	109	0.00
4	l1	1016-2	2500.000	2420.369	3.2	102	0.00
5	l1	1016-3	2500.000	2413.799	3.4	95	0.00
6	l1	1016-4	2500.000	2390.791	4.4	99	0.00
7	l1	1016-5	2500.000	2300.467	8.0	94	0.00
8	l2	1260-1	2500.000	2373.265	5.1	100	0.00
9	l2	1260-2	2500.000	2468.366	1.3	101	0.00
10	l2	1260-3	2500.000	2209.534	11.6	89	0.00
11	l2	1260-4	2500.000	2183.608	12.7	89	0.00
12	l2	1260-5	2500.000	2205.229	11.8	90	0.00

Signal #2

1	i	1660_1br2nb	250.000	250.000	0.0	99	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl	160.000	179.705	-12.3	113	0.00
3	s	Decachlorobiphenyl	320.000	336.620	-5.2	110	0.00
4	l1	1016-2	2500.000	2310.514	7.6	99	0.00
5	l1	1016-3	2500.000	2432.374	2.7	100	0.00
6	l1	1016-4	2500.000	2353.196	5.9	99	0.00
7	l1	1016-5	2500.000	2289.346	8.4	97	0.00
8	l2	1260-1	2500.000	2419.511	3.2	103	0.00
9	l2	1260-2	2500.000	2350.658	6.0	100	0.00
10	l2	1260-3	2500.000	2127.610	14.9	89	0.00
11	l2	1260-4	2500.000	2111.580	15.5#	86	0.00
12	l2	1260-5	2500.000	2141.268	14.3	86	0.00

Evaluate Continuing Calibration Report - Not Founds

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-36.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 10 Apr 2018 11:21 pm
Operator : pest7:kb
Sample   : cicv1660,42e,,8282
Misc   : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 35 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 30 10:06:38 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 30 10:06:26 2018
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
13	i	2154_1br2nb	250.000	250.000	0.0	0	-2.10#
14	l3	1221-1	2500.000	0.000	100.0#	0	-2.69#
15	l3	1221-2	2500.000	0.000	100.0#	0	-2.79#
16	l3	1221-3	2500.000	0.000	100.0#	0	-2.82#
17	l4	1254-1	2500.000	0.000	100.0#	0	-4.15#
18	l4	1254-2	2500.000	0.000	100.0#	0	-4.35#
19	l4	1254-3	2500.000	0.000	100.0#	0	-4.66#
20	l4	1254-4	2500.000	0.000	100.0#	0	-4.87#
21	l4	1254-5	2500.000	0.000	100.0#	0	-5.21#
22	i	4268_1br2nb	250.000	250.000	0.0	0	-2.10#
23	l6	1242-1	2500.000	0.000	100.0#	0	-3.07#
24	l6	1242-2	2500.000	0.000	100.0#	0	-3.42#
25	l6	1242-3	2500.000	0.000	100.0#	0	-3.52#
26	l6	1242-4	2500.000	0.000	100.0#	0	-3.85#
27	l6	1242-5	2500.000	0.000	100.0#	0	-4.19#
28	l9	1268-1	2500.000	0.000	100.0#	0	-5.90#
29	l9	1268-2	2500.000	0.000	100.0#	0	-5.93#
30	l9	1268-3	2500.000	0.000	100.0#	0	-6.06#
31	l9	1268-4	2500.000	0.000	100.0#	0	-6.29#
32	l9	1268-5	2500.000	0.000	100.0#	0	-6.48#
33	i	1248_1br2nb	250.000	250.000	0.0	0	-2.10#
34	l7	1248-1	2500.000	0.000	100.0#	0	-3.66#
35	l7	1248-2	2500.000	0.000	100.0#	0	-3.85#
36	l7	1248-3	2500.000	0.000	100.0#	0	-4.18#
37	l7	1248-4	2500.000	0.000	100.0#	0	-4.21#
38	l7	1248-5	2500.000	0.000	100.0#	0	-4.36#
39	i	3262_1br2nb	250.000	250.000	0.0	0	-2.10#

Evaluate Continuing Calibration Report

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-36.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 10 Apr 2018 11:21 pm
Operator : pest7:kb
Sample   : cicv1660,42e,,8282
Misc   : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 35 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 30 10:06:38 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 30 10:06:26 2018
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
40	l5	1232-1	2500.000	0.000	100.0#	0	-2.82#
41	l5	1232-2	2500.000	0.000	100.0#	0	-3.07#
42	l5	1232-3	2500.000	0.000	100.0#	0	-3.42#
43	l5	1232-4	2500.000	0.000	100.0#	0	-3.85#
44	l5	1232-5	2500.000	0.000	100.0#	0	-4.21#
45	l8	1262-1	2500.000	0.000	100.0#	0	-5.01#
46	l8	1262-2	2500.000	0.000	100.0#	0	-5.29#
47	l8	1262-3	2500.000	0.000	100.0#	0	-5.47#
48	l8	1262-4	2500.000	0.000	100.0#	0	-5.68#
49	l8	1262-5	2500.000	0.000	100.0#	0	-6.29#

Signal #2

13	i	2154_1br2nb	250.000	250.000	0.0	0	-2.23#
14	l3	1221-1	2500.000	0.000	100.0#	0	-3.08#
15	l3	1221-2	2500.000	0.000	100.0#	0	-3.19#
16	l3	1221-3	2500.000	0.000	100.0#	0	-3.24#
17	l4	1254-1	2500.000	0.000	100.0#	0	-4.79#
18	l4	1254-2	2500.000	0.000	100.0#	0	-4.93#
19	l4	1254-3	2500.000	0.000	100.0#	0	-5.28#
20	l4	1254-4	2500.000	0.000	100.0#	0	-5.44#
21	l4	1254-5	2500.000	0.000	100.0#	0	-5.82#
22	i	4268_1br2nb	250.000	250.000	0.0	0	-2.23#
23	l6	1242-1	2500.000	0.000	100.0#	0	-3.56#
24	l6	1242-2	2500.000	0.000	100.0#	0	-3.96#
25	l6	1242-3	2500.000	0.000	100.0#	0	-4.07#
26	l6	1242-4	2500.000	0.000	100.0#	0	-4.45#
27	l6	1242-5	2500.000	0.000	100.0#	0	-4.75#
28	l9	1268-1	2500.000	0.000	100.0#	0	-6.48#

Evaluate Continuing Calibration Report

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-36.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 10 Apr 2018 11:21 pm
Operator : pest7:kb
Sample   : cicv1660,42e,,8282
Misc   : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 35 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 30 10:06:38 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 30 10:06:26 2018
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
29	l9	1268-2	2500.000	0.000	100.0#	0	-6.51#
30	l9	1268-3	2500.000	0.000	100.0#	0	-6.68#
31	l9	1268-4	2500.000	0.000	100.0#	0	-6.86#
32	l9	1268-5	2500.000	0.000	100.0#	0	-7.08#
33	i	1248_1br2nb	250.000	250.000	0.0	0	-2.23#
34	l7	1248-1	2500.000	0.000	100.0#	0	-4.23#
35	l7	1248-2	2500.000	0.000	100.0#	0	-4.45#
36	l7	1248-3	2500.000	0.000	100.0#	0	-4.75#
37	l7	1248-4	2500.000	0.000	100.0#	0	-4.79#
38	l7	1248-5	2500.000	0.000	100.0#	0	-4.97#
39	i	3262_1br2nb	250.000	250.000	0.0	0	-2.23#
40	l5	1232-1	2500.000	0.000	100.0#	0	-3.24#
41	l5	1232-2	2500.000	0.000	100.0#	0	-3.56#
42	l5	1232-3	2500.000	0.000	100.0#	0	-3.96#
43	l5	1232-4	2500.000	0.000	100.0#	0	-4.45#
44	l5	1232-5	2500.000	0.000	100.0#	0	-4.75#
45	l8	1262-1	2500.000	0.000	100.0#	0	-5.56#
46	l8	1262-2	2500.000	0.000	100.0#	0	-5.88#
47	l8	1262-3	2500.000	0.000	100.0#	0	-6.08#
48	l8	1262-4	2500.000	0.000	100.0#	0	-6.24#
49	l8	1262-5	2500.000	0.000	100.0#	0	-6.48#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-36.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 11:21 pm
Operator : pest7:kb
Sample : cicv1660,42e,,8282
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 35 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 30 10:06:38 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 30 10:06:26 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	2.104	2.231	431.4E6	332.6E6	250.000	250.000
13) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
22) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
39) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-T...	2.584	2.867	376.3E6	275.1E6	181.482	179.705
Spiked Amount	500.000	Range 30 - 150		Recovery =		36.30%	35.94%
3) s	Decachlor...	6.598	7.242	485.3E6	338.1E6	341.605	336.620
Spiked Amount	500.000	Range 30 - 150		Recovery =		68.32%	67.32%
	Target Compounds						
4) l1	1016-2	3.073	3.562	205.3E6	156.5E6	2420.369	2310.514
5) l1	1016-3	3.419	3.955	224.7E6	178.7E6	2413.799M4	2432.374
6) l1	1016-4	3.523	4.069	162.1E6	116.4E6	2390.791	2353.196
7) l1	1016-5	3.847	4.453	130.8E6	93276512	2300.467M4	2289.346
Sum	1016-2			722.9E6	544.9E6	9525.426	9385.430
Average	1016-2					2381.356	2346.358
8) l2	1260-1	4.803	5.417	247.1E6	174.0E6	2373.265	2419.511
9) l2	1260-2	5.007	5.559	368.8E6	194.8E6	2468.366M4	2350.658
10) l2	1260-3	5.470	6.080	210.1E6	142.6E6	2209.534M4	2127.610
11) l2	1260-4	5.684	6.240	459.4E6	280.2E6	2183.608	2111.580
12) l2	1260-5	5.880	6.488	301.7E6	198.2E6	2205.229	2141.268
Sum	1260-1			1587.2E6	989.8E6	N.D.	N.D.
Average	1260-1					2288.000	2230.126
14) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-36.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 11:21 pm
Operator : pest7:kb
Sample : cicv1660,42e,,8282
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 35 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 30 10:06:38 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 30 10:06:26 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1221-1					0.000	0.000
17) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
18) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
23) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
24) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
28) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
29) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
34) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-36.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 11:21 pm
Operator : pest7:kb
Sample : cicv1660,42e,,8282
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 35 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 30 10:06:38 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 30 10:06:26 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
40)	l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
41)	l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
42)	l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
43)	l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
44)	l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1232-1			0	0	N.D.	N.D.
	Average 1232-1					0.000	0.000
45)	l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
46)	l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
47)	l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
48)	l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
49)	l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1262-1			0	0	N.D.	N.D.
	Average 1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

	Sum 1262-1			0	0	N.D.	N.D.
	Average 1262-1					0.000	0.000

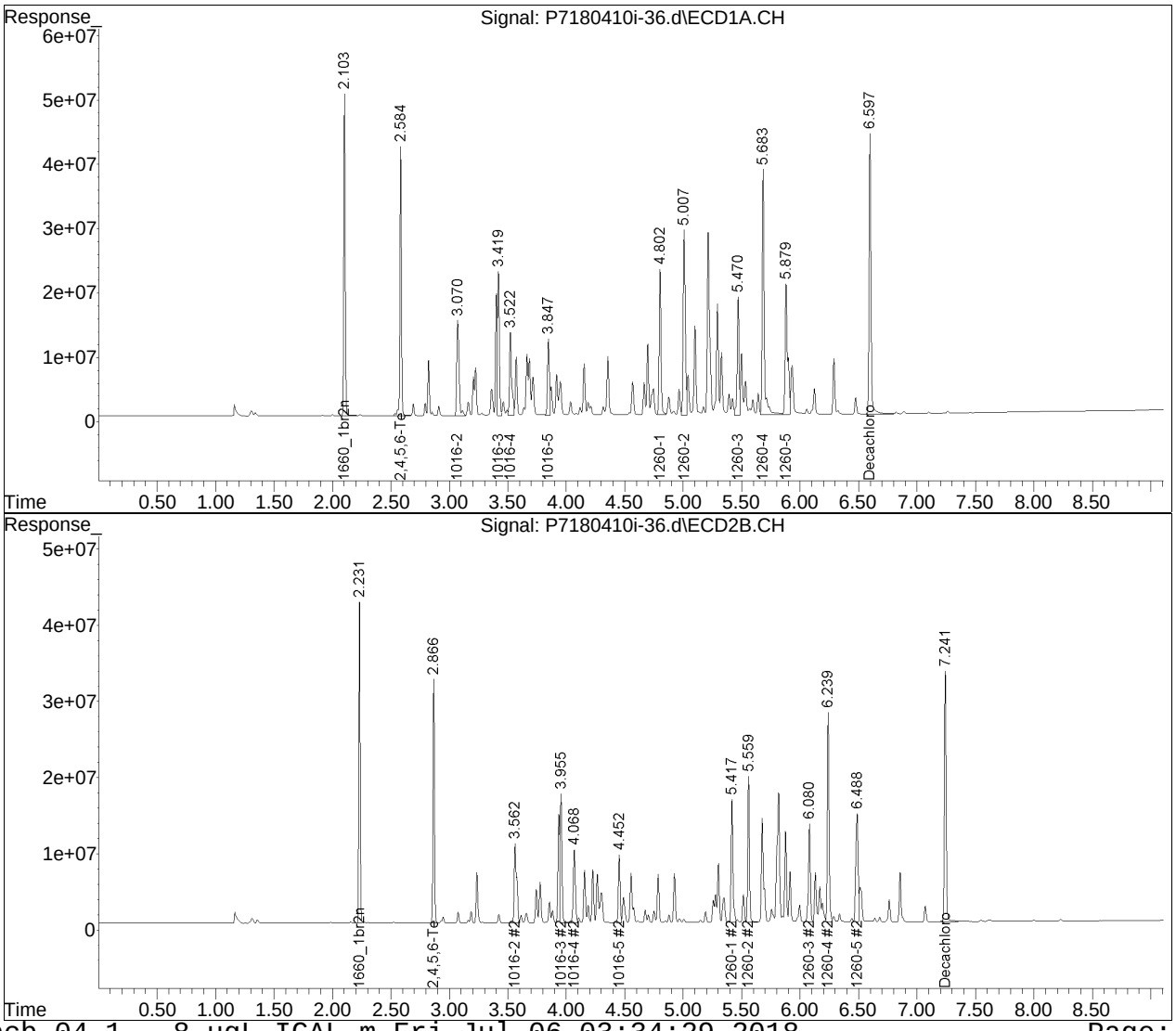
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-36.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 11:21 pm
Operator : pest7:kb
Sample : cicv1660,42e,,8282
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 35 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 30 10:06:38 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 30 10:06:26 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

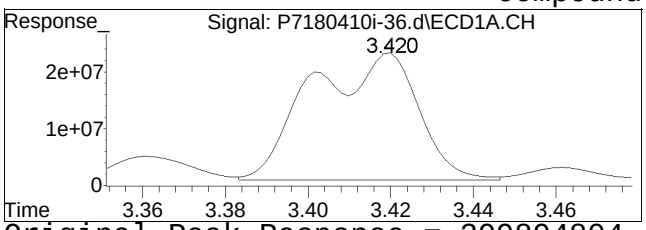


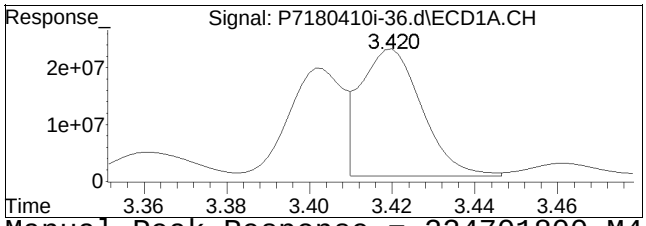
Manual Integration/Negative Proof Report

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-36.d
Date Inj'd : 4/10/2018 11:21 pm
Sample : cicv1660,42e,,8282

QMethod : P7_pcb_04_10_18_ugL_IC
Operator : pest7:kb
Instrument : Pest 7
Quant Date : 5/30/2018 10:06 am

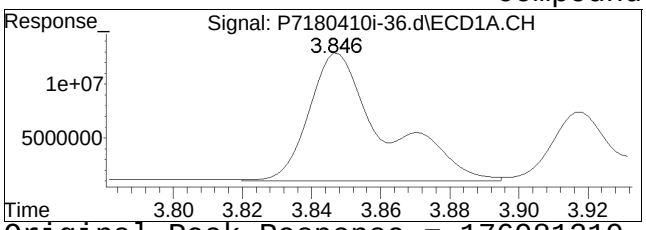
Compound #5: 1016-3

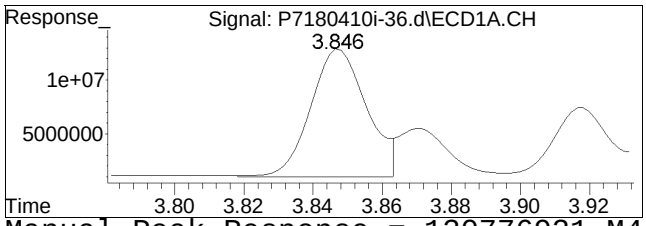




Original Peak Response = 399894804 Manual Peak Response = 224701800 M4
M4 = Poor automated baseline construction.

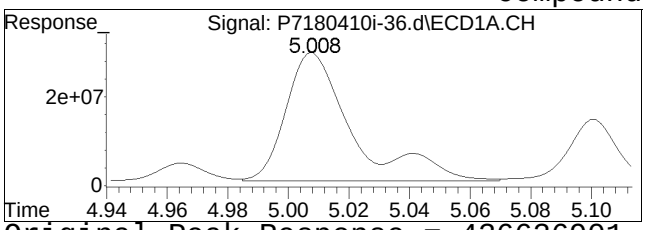
Compound #7: 1016-5

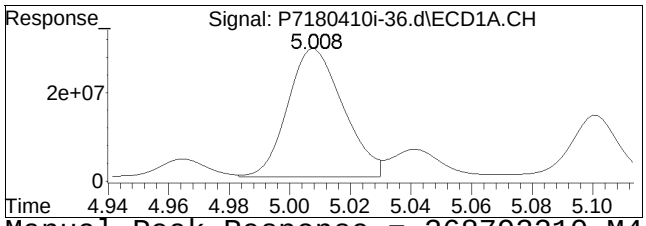




Original Peak Response = 176981219 Manual Peak Response = 130776921 M4
M4 = Poor automated baseline construction.

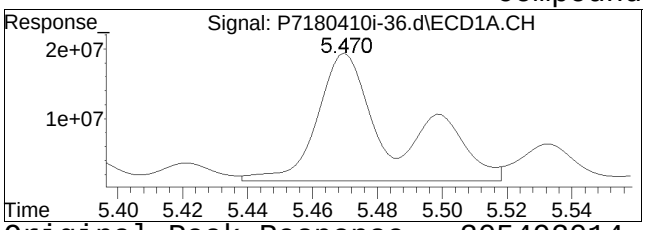
Compound #9: 1260-2

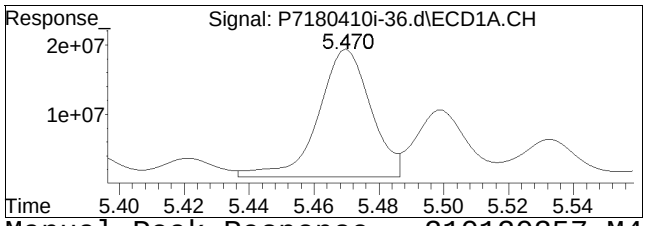




Original Peak Response = 436636901 Manual Peak Response = 368793210 M4
M4 = Poor automated baseline construction.

Compound #10: 1260-3





Original Peak Response = 305492014 Manual Peak Response = 210120357 M4
M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-37.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 10 Apr 2018 11:34 pm
Operator : pest7:kb
Sample   : cicv3262,42e,,8284
Misc   : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 36 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 30 10:07:44 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 30 10:07:29 2018
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	250.000	250.000	0.0	104	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen	160.000	177.662	-11.0	115	0.00
3	s	Decachlorobiphenyl	320.000	327.322	-2.3	111	0.00
13	i	2154_1br2nb	250.000	250.000	0.0	105	0.00
22	i	4268_1br2nb	250.000	250.000	0.0	114	0.00
33	i	1248_1br2nb	250.000	250.000	0.0	109	0.00
39	i	3262_1br2nb	250.000	250.000	0.0	109	0.00
40	l5	1232-1	2500.000	2228.530	10.9	104	0.00
41	l5	1232-2	2500.000	2061.479	17.5#	95	0.00
42	l5	1232-3	2500.000	2276.023	9.0	106	0.00
43	l5	1232-4	2500.000	1969.971	21.2#	88	0.00
44	l5	1232-5	2500.000	2143.658	14.3	98	0.00
45	l8	1262-1	2500.000	2244.210	10.2	101	0.00
46	l8	1262-2	2500.000	2241.829	10.3	103	0.00
47	l8	1262-3	2500.000	2198.620	12.1	99	0.00
48	l8	1262-4	2500.000	2390.613	4.4	114	0.00
49	l8	1262-5	2500.000	2343.899	6.2	112	0.00

Signal #2

1	i	1660_1br2nb	250.000	250.000	0.0	105	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl	160.000	172.283	-7.7	116	0.00
3	s	Decachlorobiphenyl	320.000	320.903	-0.3	112	0.00
13	i	2154_1br2nb	250.000	250.000	0.0	105	0.00

Evaluate Continuing Calibration Report

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-37.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 10 Apr 2018 11:34 pm
Operator : pest7:kb
Sample   : cicv3262,42e,,8284
Misc   : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 36 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 30 10:07:44 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 30 10:07:29 2018
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
22	i	4268_1br2nb	250.000	250.000	0.0	113	0.00
33	i	1248_1br2nb	250.000	250.000	0.0	108	0.00
39	i	3262_1br2nb	250.000	250.000	0.0	110	0.00
40	l5	1232-1	2500.000	2281.788	8.7	108	0.00
41	l5	1232-2	2500.000	2111.788	15.5#	100	0.00
42	l5	1232-3	2500.000	2205.603	11.8	102	0.00
43	l5	1232-4	2500.000	1921.895	23.1#	90	0.00
44	l5	1232-5	2500.000	2151.620	13.9	101	0.00
45	l8	1262-1	2500.000	2171.422	13.1	108	0.00
46	l8	1262-2	2500.000	2135.674	14.6	104	0.00
47	l8	1262-3	2500.000	2195.517	12.2	109	0.00
48	l8	1262-4	2500.000	2345.032	6.2	112	0.00
49	l8	1262-5	2500.000	2278.410	8.9	111	0.00

Evaluate Continuing Calibration Report - Not Founds

4	l1	1016-2	2500.000	0.000	100.0#	0	-3.07#
5	l1	1016-3	2500.000	0.000	100.0#	0	-3.42#
6	l1	1016-4	2500.000	0.000	100.0#	0	-3.52#
7	l1	1016-5	2500.000	0.000	100.0#	0	-3.85#
8	l2	1260-1	2500.000	0.000	100.0#	0	-4.80#
9	l2	1260-2	2500.000	0.000	100.0#	0	-5.01#
10	l2	1260-3	2500.000	0.000	100.0#	0	-5.47#
11	l2	1260-4	2500.000	0.000	100.0#	0	-5.68#
12	l2	1260-5	2500.000	0.000	100.0#	0	-5.88#
14	l3	1221-1	2500.000	0.000	100.0#	0	-2.69#
15	l3	1221-2	2500.000	0.000	100.0#	0	-2.79#
16	l3	1221-3	2500.000	0.000	100.0#	0	-2.82#
17	l4	1254-1	2500.000	0.000	100.0#	0	-4.15#

Evaluate Continuing Calibration Report

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-37.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 10 Apr 2018 11:34 pm
Operator : pest7:kb
Sample   : cicv3262,42e,,8284
Misc   : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 36 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 30 10:07:44 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 30 10:07:29 2018
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
18 l4	1254-2	2500.000	0.000	100.0#	0	-4.35#
19 l4	1254-3	2500.000	0.000	100.0#	0	-4.66#
20 l4	1254-4	2500.000	0.000	100.0#	0	-4.87#
21 l4	1254-5	2500.000	0.000	100.0#	0	-5.21#
23 l6	1242-1	2500.000	0.000	100.0#	0	-3.07#
24 l6	1242-2	2500.000	0.000	100.0#	0	-3.42#
25 l6	1242-3	2500.000	0.000	100.0#	0	-3.52#
26 l6	1242-4	2500.000	0.000	100.0#	0	-3.85#
27 l6	1242-5	2500.000	0.000	100.0#	0	-4.19#
28 l9	1268-1	2500.000	0.000	100.0#	0	-5.90#
29 l9	1268-2	2500.000	0.000	100.0#	0	-5.93#
30 l9	1268-3	2500.000	0.000	100.0#	0	-6.06#
31 l9	1268-4	2500.000	0.000	100.0#	0	-6.29#
32 l9	1268-5	2500.000	0.000	100.0#	0	-6.48#
34 l7	1248-1	2500.000	0.000	100.0#	0	-3.66#
35 l7	1248-2	2500.000	0.000	100.0#	0	-3.85#
36 l7	1248-3	2500.000	0.000	100.0#	0	-4.18#
37 l7	1248-4	2500.000	0.000	100.0#	0	-4.21#
38 l7	1248-5	2500.000	0.000	100.0#	0	-4.36#

Signal #2

4 l1	1016-2	2500.000	0.000	100.0#	0	-3.56#
5 l1	1016-3	2500.000	0.000	100.0#	0	-3.96#
6 l1	1016-4	2500.000	0.000	100.0#	0	-4.07#
7 l1	1016-5	2500.000	0.000	100.0#	0	-4.45#
8 l2	1260-1	2500.000	0.000	100.0#	0	-5.42#
9 l2	1260-2	2500.000	0.000	100.0#	0	-5.56#
10 l2	1260-3	2500.000	0.000	100.0#	0	-6.08#
11 l2	1260-4	2500.000	0.000	100.0#	0	-6.24#
12 l2	1260-5	2500.000	0.000	100.0#	0	-6.49#

Evaluate Continuing Calibration Report

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-37.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 10 Apr 2018 11:34 pm
Operator : pest7:kb
Sample   : cicv3262,42e,,8284
Misc   : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 36 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 30 10:07:44 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 30 10:07:29 2018
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 15%   Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
14 l3	1221-1	2500.000	0.000	100.0#	0	-3.08#
15 l3	1221-2	2500.000	0.000	100.0#	0	-3.19#
16 l3	1221-3	2500.000	0.000	100.0#	0	-3.24#
17 l4	1254-1	2500.000	0.000	100.0#	0	-4.79#
18 l4	1254-2	2500.000	0.000	100.0#	0	-4.93#
19 l4	1254-3	2500.000	0.000	100.0#	0	-5.28#
20 l4	1254-4	2500.000	0.000	100.0#	0	-5.44#
21 l4	1254-5	2500.000	0.000	100.0#	0	-5.82#
23 l6	1242-1	2500.000	0.000	100.0#	0	-3.56#
24 l6	1242-2	2500.000	0.000	100.0#	0	-3.96#
25 l6	1242-3	2500.000	0.000	100.0#	0	-4.07#
26 l6	1242-4	2500.000	0.000	100.0#	0	-4.45#
27 l6	1242-5	2500.000	0.000	100.0#	0	-4.75#
28 l9	1268-1	2500.000	0.000	100.0#	0	-6.48#
29 l9	1268-2	2500.000	0.000	100.0#	0	-6.51#
30 l9	1268-3	2500.000	0.000	100.0#	0	-6.68#
31 l9	1268-4	2500.000	0.000	100.0#	0	-6.86#
32 l9	1268-5	2500.000	0.000	100.0#	0	-7.08#
34 l7	1248-1	2500.000	0.000	100.0#	0	-4.23#
35 l7	1248-2	2500.000	0.000	100.0#	0	-4.45#
36 l7	1248-3	2500.000	0.000	100.0#	0	-4.75#
37 l7	1248-4	2500.000	0.000	100.0#	0	-4.79#
38 l7	1248-5	2500.000	0.000	100.0#	0	-4.97#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-37.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 11:34 pm
Operator : pest7:kb
Sample : cicv3262,42e,,8284
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 36 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 30 10:07:44 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 30 10:07:29 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	2.102	2.231	457.0E6	354.9E6	250.000M4	250.000M4
13) i	2154_1br2nb	2.102f	2.231	457.0E6	354.9E6	250.000M4	250.000M4
22) i	4268_1br2nb	2.102	2.231	457.0E6	354.9E6	250.000M4	250.000M4
33) i	1248_1br2nb	2.102f	2.231	457.0E6	354.9E6	250.000M4	250.000M4
39) i	3262_1br2nb	2.102	2.231	457.0E6	354.9E6	250.000M4	250.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-T...	2.584	2.866	390.2E6	281.5E6	177.662	172.283
	Spiked Amount 500.000	Range 30 - 150		Recovery =		35.53%	34.46%
3) s	Decachlor...	6.598	7.242	492.5E6	344.0E6	327.322	320.903
	Spiked Amount 500.000	Range 30 - 150		Recovery =		65.46%	64.18%
	Target Compounds						
4) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-2			0	0	N.D.	N.D.
	Average 1016-2					0.000	0.000
8) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
9) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-37.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 11:34 pm
Operator : pest7:kb
Sample : cicv3262,42e,,8284
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 36 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 30 10:07:44 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 30 10:07:29 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
14) l3 1221-1	0.000	0.000	0	0	N.D. d	N.D. d
15) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-1			0	0	N.D.	N.D.
Average 1221-1					0.000	0.000
17) l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
18) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
19) l4 1254-3	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
21) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
23) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
24) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
28) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
29) l9 1268-2	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l9 1268-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
34) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-37.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 11:34 pm
Operator : pest7:kb
Sample : cicv3262,42e,,8284
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 36 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 30 10:07:44 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 30 10:07:29 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
36) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
40) l5 1232-1	2.822	3.235	96264389	82812016	2228.530M4	2281.788M2
41) l5 1232-2	3.072	3.561	92143308	79613389	2061.479	2111.788M4
42) l5 1232-3	3.419	3.954	106.8E6	84271342	2276.023M4	2205.603M5
43) l5 1232-4	3.848	4.452	74909529	39480458	1969.971	1921.895M2
44) l5 1232-5	4.209	4.749	50998236	40772781	2143.658M4	2151.620M4
Sum 1232-1			421.1E6	326.9E6	10679.660	10672.693
Average 1232-1					2135.932	2134.539
45) l8 1262-1	5.007	5.559	250.1E6	144.8E6	2244.210	2171.422M3
46) l8 1262-2	5.293	5.875	318.7E6	197.8E6	2241.829	2135.674M2
47) l8 1262-3	5.469	6.080	275.4E6	184.4E6	2198.620M4	2195.517M2
48) l8 1262-4	5.684	6.240	582.6E6	351.9E6	2390.613	2345.032M2
49) l8 1262-5	6.289	6.480	183.2E6	248.9E6	2343.899	2278.410M4
Sum 1262-1			1609.9E6	1127.8E6	11419.171	11126.055
Average 1262-1					2283.834	2225.211

SemiQuant Compounds - Not Calibrated on this Instrument

Sum 1262-1			1609.9E6	1127.8E6	11419.171	11126.055
Average 1262-1					2283.834	2225.211

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-37.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 11:34 pm
Operator : pest7:kb
Sample : cicv3262,42e,,8284
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 36 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 30 10:07:44 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 30 10:07:29 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

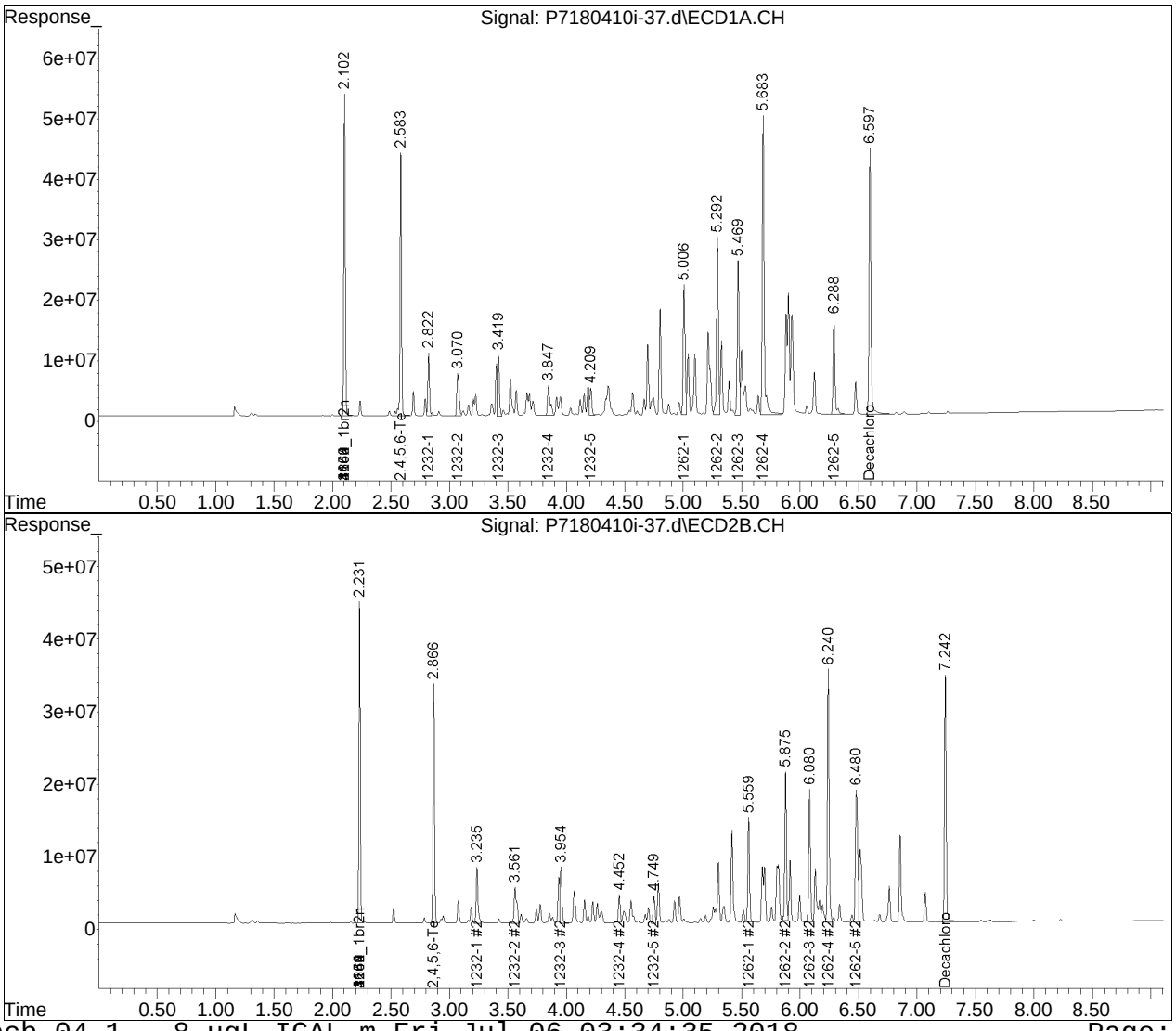
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-37.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 10 Apr 2018 11:34 pm
Operator : pest7:kb
Sample : cicv3262,42e,,8284
Misc : WG1132938, (Sig #1); (Sig #2)
ALS Vial : 36 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 30 10:07:44 2018
Quant Method : I:\Pest7\180410ICAL\P7_pcb_04_10_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed May 30 10:07:29 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

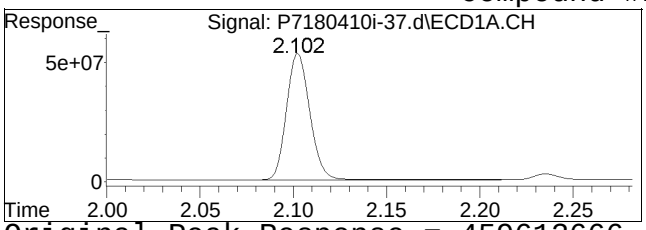


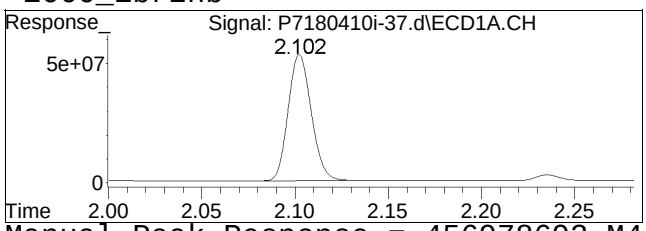
Manual Integration/Negative Proof Report

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-37.d
Date Inj'd : 4/10/2018 11:34 pm
Sample : cicv3262,42e,,8284

QMethod : P7_pcb_04_10_18_ugL_IC
Operator : pest7:kb
Instrument : Pest 7
Quant Date : 5/30/2018 10:07 am

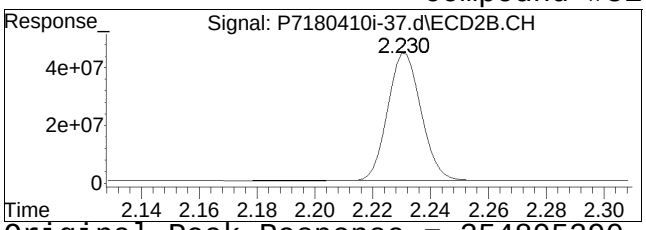
Compound #1: 1660_1br2nb

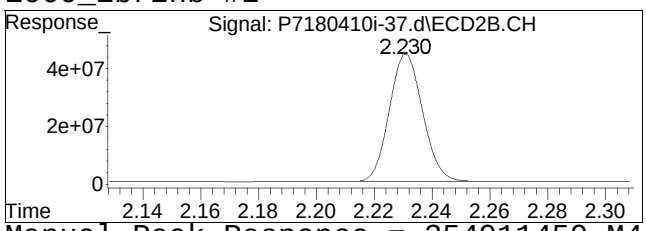




Original Peak Response = 459613666 Manual Peak Response = 456978693 M4
M4 = Poor automated baseline construction.

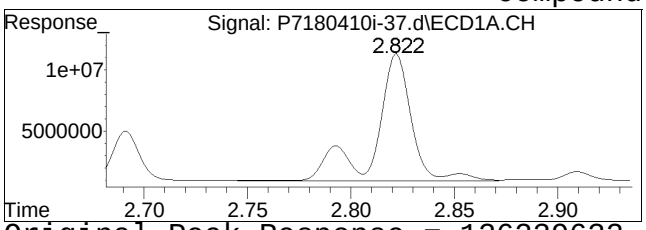
Compound #51: 1660_1br2nb #2

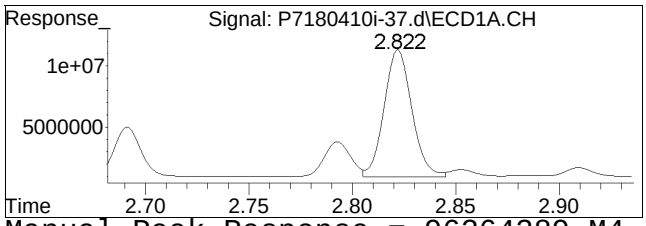




Original Peak Response = 354895390 Manual Peak Response = 354911459 M4
M4 = Poor automated baseline construction.

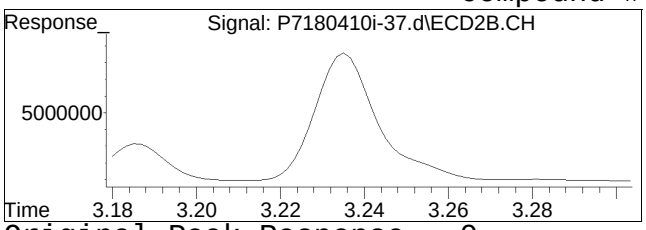
Compound #40: 1232-1

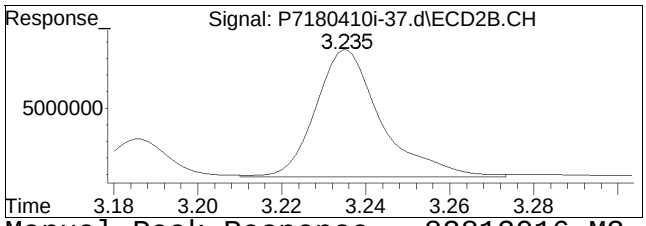




Original Peak Response = 126239632 Manual Peak Response = 96264389 M4
M4 = Poor automated baseline construction.

Compound #90: 1232-1 #2





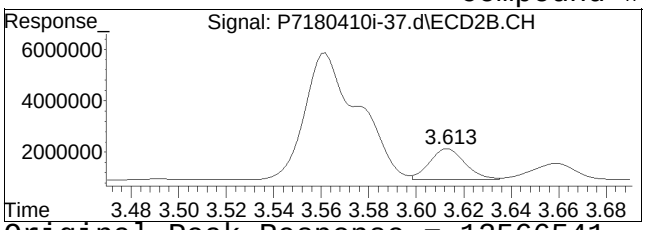
Original Peak Response = 0 Manual Peak Response = 82812016 M2
M2 = Peak not found by automatic integration algorithm.

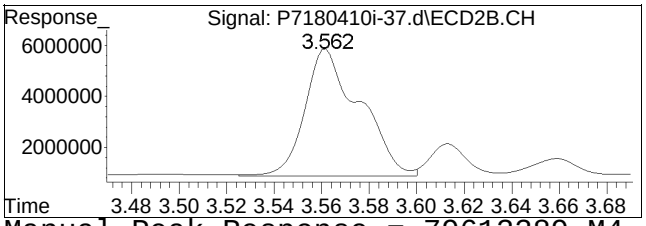
Manual Integration/Negative Proof Report

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-37.d
Date Inj'd : 4/10/2018 11:34 pm
Sample : cicv3262,42e,,8284

QMethod : P7_pcb_04_10_18_ugL_IC
Operator : pest7:kb
Instrument : Pest 7
Quant Date : 5/30/2018 10:07 am

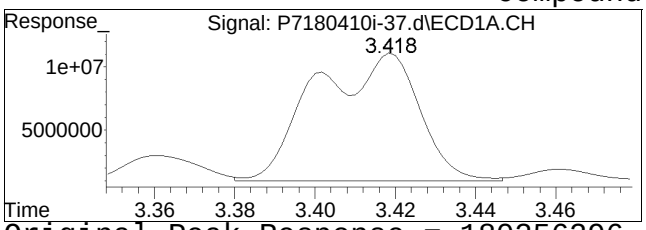
Compound #91: 1232-2 #2

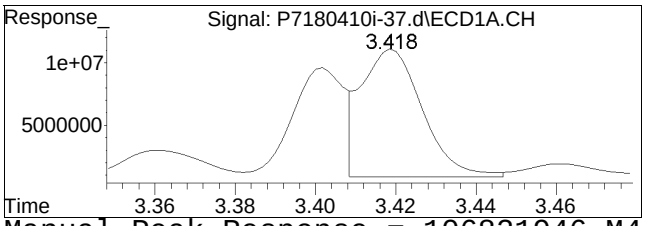




Original Peak Response = 12566541 Manual Peak Response = 79613389 M4
M4 = Poor automated baseline construction.

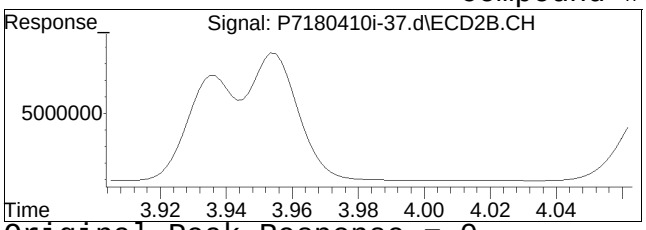
Compound #42: 1232-3

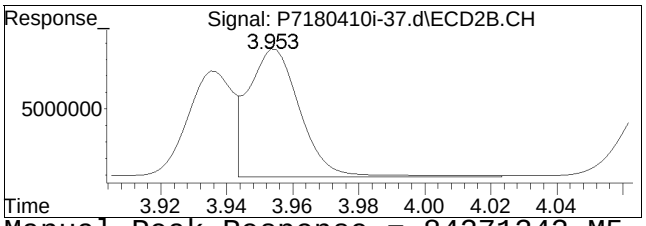




Original Peak Response = 180256296 Manual Peak Response = 106821946 M4
M4 = Poor automated baseline construction.

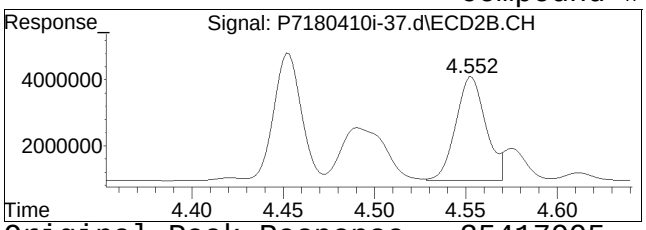
Compound #92: 1232-3 #2

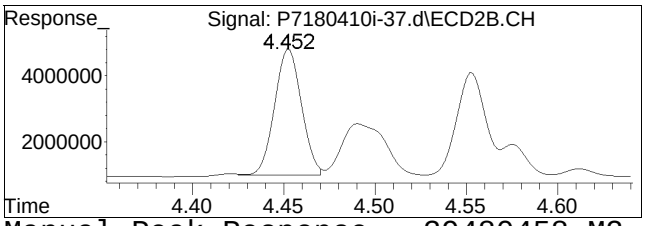




Original Peak Response = 0 Manual Peak Response = 84271342 M5
M5 = Manual integration over a retention time range required, i.e. for hydrocarbon range methods.

Compound #93: 1232-4 #2





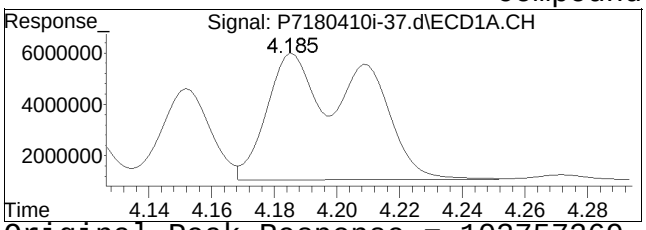
Original Peak Response = 35417995 Manual Peak Response = 39480458 M2
M2 = Peak not found by automatic integration algorithm.

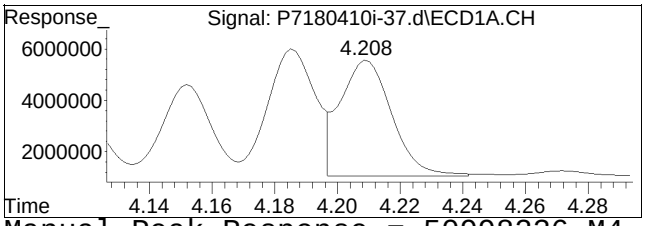
Manual Integration/Negative Proof Report

Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-37.d
Date Inj'd : 4/10/2018 11:34 pm
Sample : cicv3262,42e,,8284

QMethod : P7_pcb_04_10_18_ugL_IC
Operator : pest7:kb
Instrument : Pest 7
Quant Date : 5/30/2018 10:07 am

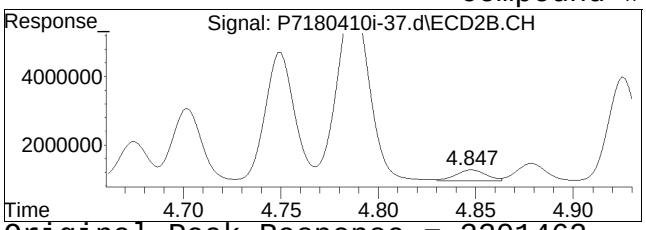
Compound #44: 1232-5

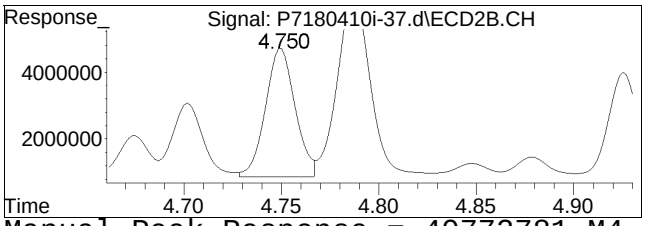




Original Peak Response = 103757369 Manual Peak Response = 50998236 M4
M4 = Poor automated baseline construction.

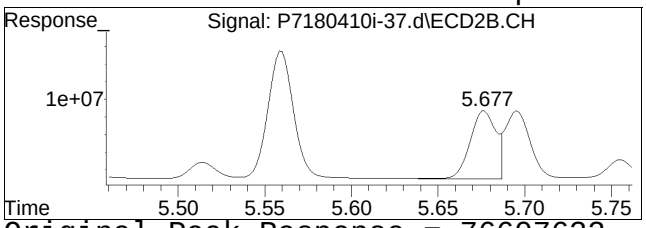
Compound #94: 1232-5 #2

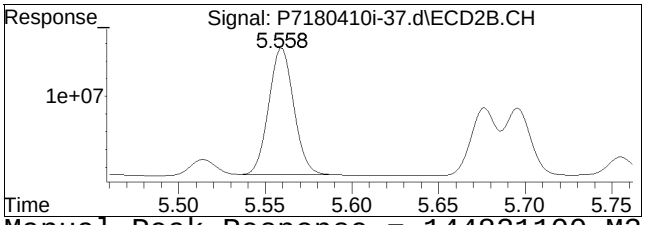




Original Peak Response = 3301462 Manual Peak Response = 40772781 M4
M4 = Poor automated baseline construction.

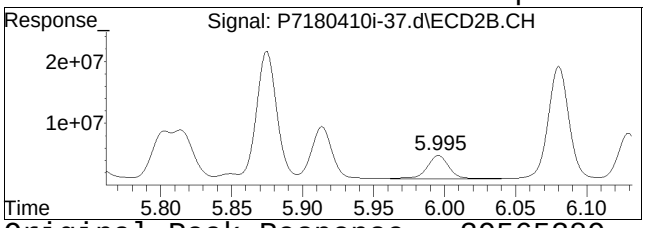
Compound #95: 1262-1 #2

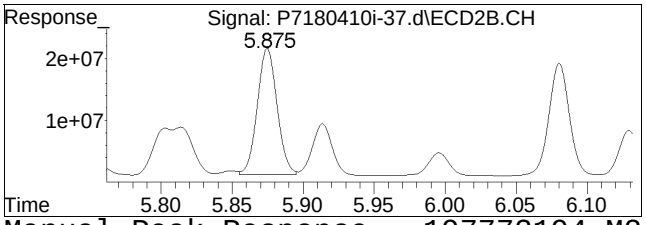




Original Peak Response = 76607632 Manual Peak Response = 144821100 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Compound #96: 1262-2 #2





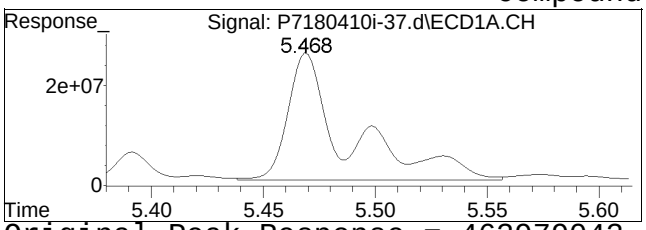
Original Peak Response = 39565389 Manual Peak Response = 197773194 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration/Negative Proof Report

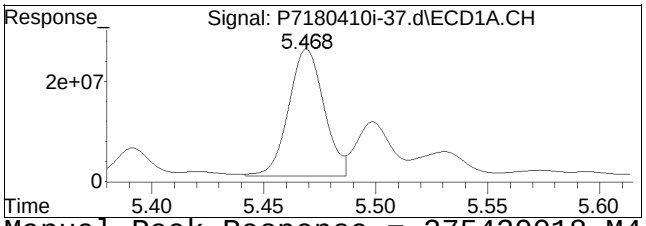
Data Path : I:\Pest7\180410ICAL\
Data File : P7180410i-37.d
Date Inj'd : 4/10/2018 11:34 pm
Sample : cicv3262,42e,,8284

QMethod : P7_pcb_04_10_18_ugL_IC
Operator : pest7:kb
Instrument : Pest 7
Quant Date : 5/30/2018 10:07 am

Compound #47: 1262-3

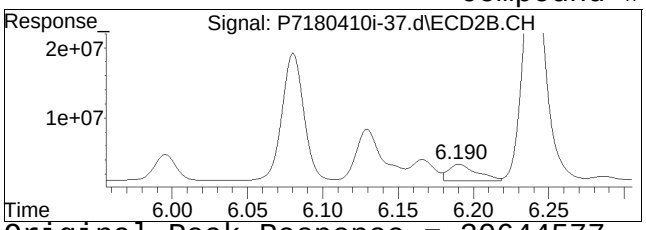


Original Peak Response = 463979043

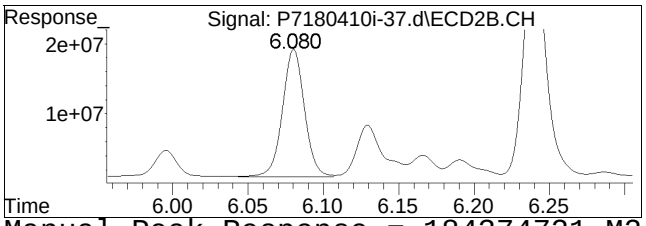


Manual Peak Response = 275430018 M4
M4 = Poor automated baseline construction.

Compound #97: 1262-3 #2

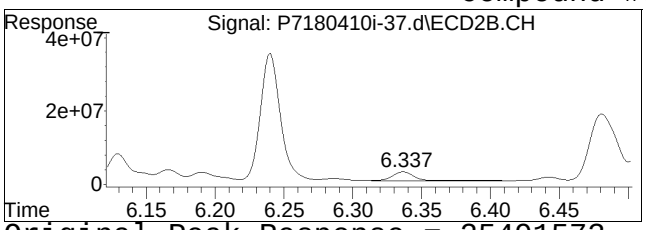


Original Peak Response = 30644577

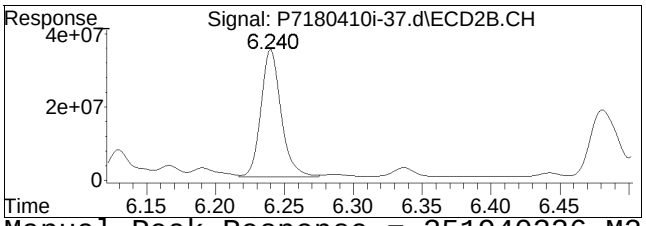


Manual Peak Response = 184374721 M2
M2 = Peak not found by automatic integration algorithm.

Compound #98: 1262-4 #2

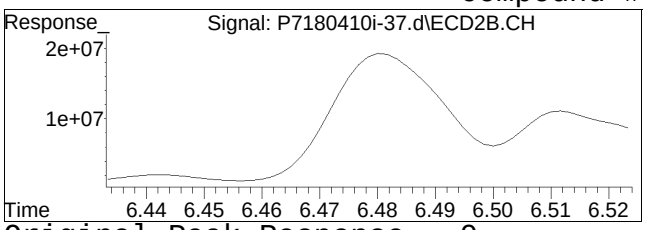


Original Peak Response = 25491573

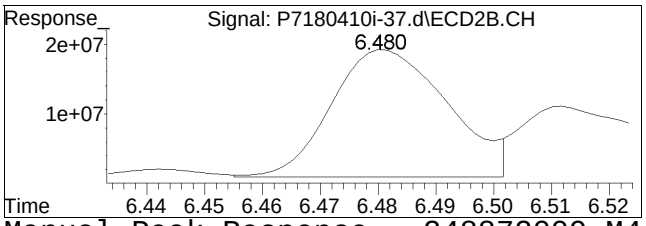


Manual Peak Response = 351940326 M2
M2 = Peak not found by automatic integration algorithm.

Compound #99: 1262-5 #2



Original Peak Response = 0



Manual Peak Response = 248872009 M4
M4 = Poor automated baseline construction.

Response Factor Report PEST16

Method Path : I:\Pest16\180809ICAL\
Method File : P16_pcb_08_09i_18_ugL_ICAL.m
Title : pcb
Last Update : Wed Aug 15 13:28:17 2018
Response Via : Initial Calibration

Calibration Files
1 =180809ical-21.d 2 =180809ical-22.d 3 =180809ical-23.d 4 =180809ical-24.d
5 =180809ical-25.d 6 =180809ical-26.d

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	1660_1br2nb	----------ISTD----------							
2)	s	2,4,5,6-Tetra...	1.130	1.202	1.278	1.316	1.288	1.317	1.255	5.92
3)	s	Decachlorobip...	0.881	0.875	0.923	0.920	0.908	0.954	0.910	3.22
4)	l1	1016-1	0.019	0.019	0.019	0.018	0.017	0.018	0.018	4.37
5)	l1	1016-2	0.048	0.045	0.045	0.044	0.041	0.042	0.044	5.23
6)	l1	1016-3	0.076	0.076	0.076	0.077	0.080	0.077	0.077	1.87
7)	l1	1016-4	0.033	0.034	0.034	0.033	0.033	0.034	0.034	0.83
8)	l1	1016-5	0.041	0.039	0.040	0.039	0.037	0.041	0.039	3.62
9)	l2	1260-1	0.060	0.056	0.057	0.056	0.056	0.058	0.057	2.74
10)	l2	1260-2	0.091	0.082	0.084	0.083	0.082	0.085	0.084	4.26
11)	l2	1260-3	0.050	0.051	0.055	0.053	0.054	0.057	0.053	4.61
12)	l2	1260-4	0.108	0.111	0.117	0.117	0.116	0.118	0.115	3.80
13)	l2	1260-5	0.077	0.078	0.081	0.081	0.081	0.086	0.081	3.71
14)	i	2154_1br2nb	----------ISTD----------							
15)	l3	1221-2	0.010	0.011	0.011	0.011	0.011	0.010	0.011	4.85
16)	l3	1221-3	0.007	0.007	0.006	0.006	0.006	0.006	0.006	7.94
17)	l3	1221-4	0.026	0.026	0.027	0.026	0.025	0.023	0.026	5.73
18)	l4	1254-2	0.099	0.075	0.078	0.073	0.074	0.066	0.078	14.64
19)	l4	1254-3	0.069	0.072	0.076	0.073	0.074	0.067	0.072	4.70
20)	l4	1254-4	0.060	0.046	0.046	0.045	0.047	0.044	0.048	12.15
21)	l4	1254-5	0.070	0.075	0.080	0.077	0.081	0.072	0.076	5.99
22)	i	4268_1br2nb	----------ISTD----------							
23)	l6	1242-1	0.015	0.017	0.015	0.015	0.014	0.014	0.015	8.06
24)	l6	1242-2	0.044	0.042	0.035	0.039	0.034	0.034	0.038	11.75
25)	l6	1242-3	0.064	0.063	0.061	0.065	0.062	0.059	0.062	3.29
26)	l6	1242-4	0.039	0.036	0.031	0.037	0.033	0.034	0.035	8.34
27)	l6	1242-5	0.024	0.022	0.020	0.020	0.021	0.020	0.021	7.16
28)	l9	1268-1	0.172	0.178	0.152	0.189	0.168	0.164	0.171	7.44
29)	l9	1268-2	0.173	0.183	0.157	0.197	0.176	0.174	0.177	7.56

Method Path : I:\Pest16\180809ICAL\
Method File : P16_pcb_08_09i_18_ugL_ICAL.m
Title : pcb
Last Update : Wed Aug 15 13:28:17 2018
Response Via : Initial Calibration

Calibration Files
1 =180809ical-21.d 2 =180809ical-22.d 3 =180809ical-23.d 4 =180809ical-24.d
5 =180809ical-25.d 6 =180809ical-26.d

		Compound	1	2	3	4	5	6	Avg	%RSD
30)	l9	1268-3	0.113	0.117	0.101	0.128	0.115	0.116	0.115	7.53
31)	l9	1268-4	0.053	0.054	0.048	0.059	0.054	0.057	0.054	7.16
32)	l9	1268-5	0.315	0.344	0.296	0.370	0.325	0.310	0.326	8.13
33)	i	1248_1br2nb	----------ISTD----------							
34)	l7	1248-1	0.020	0.020	0.019	0.018	0.018	0.020	0.019	5.33
35)	l7	1248-2	0.036	0.035	0.031	0.032	0.031	0.033	0.033	6.16
36)	l7	1248-3	0.052	0.052	0.051	0.049	0.047	0.051	0.050	4.40
37)	l7	1248-4	0.044	0.038	0.038	0.035	0.034	0.039	0.038	9.68
38)	l7	1248-5	0.028	0.032	0.030	0.030	0.029	0.033	0.030	6.39
39)	i	3262_1br2nb	----------ISTD----------							
40)	l5	1232-1	0.022	0.023	0.023	0.021	0.019	0.020	0.021	7.73
41)	l5	1232-2	0.024	0.024	0.023	0.022	0.019	0.021	0.022	8.86
42)	l5	1232-3	0.040	0.036	0.037	0.037	0.033	0.039	0.037	6.69
43)	l5	1232-4	0.017	0.020	0.019	0.019	0.017	0.019	0.019	7.32
44)	l8	1262-1	0.061	0.064	0.064	0.063	0.055	0.063	0.062	5.26
45)	l8	1262-2	0.081	0.085	0.085	0.084	0.073	0.081	0.081	5.30
46)	l8	1262-3	0.071	0.074	0.076	0.075	0.066	0.074	0.073	5.10
47)	l8	1262-4	0.134	0.140	0.142	0.144	0.126	0.139	0.138	4.74
48)	l8	1262-5	0.058	0.062	0.057	0.062	0.053	0.060	0.059	5.55

Signal #2 Calibration Files
1 =180809ical-21.d 2 =180809ical-22.d 3 =180809ical-23.d 4 =180809ical-24.d
5 =180809ical-25.d 6 =180809ical-26.d

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	1660_1br2nb	----------ISTD----------							
2)	s	2,4,5,6-Tetra...	1.179	1.193	1.255	1.230	1.223	1.272	1.225	2.91
3)	s	Decachlorobip...	0.686	0.633	0.657	0.646	0.647	0.703	0.662	4.06
4)	l1	1016-1	0.023	0.020	0.020	0.019	0.018	0.019	0.020	9.55

Response Factor Report PEST16

Method Path : I:\Pest16\180809ICAL\
Method File : P16_pcb_08_09i_18_ugL_ICAL.m
Title : pcb
Last Update : Wed Aug 15 13:28:17 2018
Response Via : Initial Calibration

Calibration Files
1 =180809ical-21.d 2 =180809ical-22.d 3 =180809ical-23.d 4 =180809ical-24.d
5 =180809ical-25.d 6 =180809ical-26.d

	Compound		1	2	3	4	5	6	Avg	%RSD
5)	l1	1016-2	0.046	0.045	0.046	0.042	0.041	0.042	0.044	4.83
6)	l1	1016-3	0.076	0.076	0.077	0.075	0.074	0.077	0.076	1.22
7)	l1	1016-4	0.033	0.030	0.030	0.029	0.029	0.030	0.030	5.72
8)	l1	1016-5	0.028	0.027	0.028	0.026	0.025	0.026	0.027	4.14
9)	l2	1260-1	0.053	0.051	0.047	0.045	0.044	0.047	0.048	7.30
10)	l2	1260-2	0.056	0.051	0.053	0.051	0.051	0.054	0.053	3.66
11)	l2	1260-3	0.050	0.041	0.043	0.042	0.042	0.045	0.044	8.05
12)	l2	1260-4	0.090	0.085	0.090	0.089	0.089	0.095	0.090	3.45
13)	l2	1260-5	0.059	0.057	0.059	0.058	0.058	0.063	0.059	3.58
14)	i	2154_1br2nb	----------ISTD----------							
15)	l3	1221-2	0.012	0.012	0.012	0.011	0.011	0.010	0.011	7.17
16)	l3	1221-3	0.008	0.007	0.008	0.007	0.007	0.006	0.007	9.37
17)	l3	1221-4	0.031	0.029	0.030	0.028	0.028	0.024	0.028	9.39
18)	l4	1254-2	0.052	0.049	0.048	0.045	0.046	0.040	0.047	8.42
19)	l4	1254-3	0.075	0.067	0.068	0.066	0.068	0.061	0.068	7.05
20)	l4	1254-4	0.045	0.037	0.035	0.035	0.037	0.034	0.037	11.15
21)	l4	1254-5	0.053	0.058	0.060	0.058	0.061	0.054	0.057	5.64
22)	i	4268_1br2nb	----------ISTD----------							
23)	l6	1242-1	0.019	0.018	0.016	0.017	0.015	0.015	0.017	10.72
24)	l6	1242-2	0.043	0.043	0.036	0.039	0.035	0.034	0.038	10.60
25)	l6	1242-3	0.062	0.066	0.062	0.065	0.061	0.060	0.063	3.39
26)	l6	1242-4	0.026	0.026	0.022	0.025	0.022	0.022	0.024	8.22
27)	l6	1242-5	0.020	0.020	0.018	0.018	0.017	0.017	0.018	7.21
28)	l9	1268-1	0.132	0.134	0.113	0.139	0.125	0.126	0.128	7.05
29)	l9	1268-2	0.132	0.136	0.116	0.144	0.130	0.132	0.132	6.98
30)	l9	1268-3	0.086	0.087	0.074	0.093	0.084	0.087	0.085	7.18
31)	l9	1268-4	0.041	0.042	0.036	0.044	0.040	0.042	0.041	6.22
32)	l9	1268-5	0.244	0.258	0.221	0.277	0.248	0.242	0.248	7.40
33)	i	1248_1br2nb	----------ISTD----------							
34)	l7	1248-1	0.019	0.020	0.019	0.018	0.017	0.019	0.018	5.63

Method Path : I:\Pest16\180809ICAL\
Method File : P16_pcb_08_09i_18_ugL_ICAL.m
Title : pcb
Last Update : Wed Aug 15 13:28:17 2018
Response Via : Initial Calibration

Calibration Files
1 =180809ical-21.d 2 =180809ical-22.d 3 =180809ical-23.d 4 =180809ical-24.d
5 =180809ical-25.d 6 =180809ical-26.d

	Compound		1	2	3	4	5	6	Avg	%RSD
35)	l7	1248-2	0.031	0.030	0.028	0.027	0.025	0.027	0.028	8.08
36)	l7	1248-3	0.039	0.037	0.034	0.033	0.032	0.034	0.035	7.87
37)	l7	1248-4	0.040	0.033	0.031	0.029	0.028	0.032	0.032	13.49
38)	l7	1248-5	0.042	0.037	0.034	0.033	0.032	0.036	0.036	9.80
39)	i	3262_1br2nb	----------ISTD----------							
40)	l5	1232-1	0.029	0.025	0.024	0.022	0.020	0.022	0.024	13.16
41)	l5	1232-2	0.025	0.025	0.025	0.022	0.020	0.022	0.023	9.49
42)	l5	1232-3	0.035	0.034	0.039	0.035	0.032	0.039	0.036	7.37
43)	l5	1232-4	0.015	0.015	0.014	0.012	0.011	0.012	0.013	11.88
44)	l8	1262-1	0.041	0.043	0.043	0.041	0.036	0.042	0.041	6.21
45)	l8	1262-2	0.061	0.060	0.061	0.058	0.051	0.059	0.059	6.26
46)	l8	1262-3	0.057	0.055	0.056	0.054	0.048	0.055	0.054	5.99
47)	l8	1262-4	0.106	0.103	0.106	0.103	0.092	0.105	0.102	5.42
48)	l8	1262-5	0.081	0.072	0.073	0.070	0.063	0.073	0.072	8.18

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 9:38 am
Operator : pest16:jw
Sample : il4268,42e,,8669
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:41:39 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:39:59 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	2.270	2.378	556.9E6	1093.5E6	250.000	250.000
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-T...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	500.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
3) s	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	500.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 9:38 am
Operator : pest16:jw
Sample : il4268,42e,,8669
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:41:39 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:39:59 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	3.037	3.433	3433569	8459044	102.742M3	118.786M4
25) l6	1242-2	3.301	3.774	9797707	18752794	119.656M4	114.885
26) l6	1242-3	3.671	4.171	14253588	27183738	102.980	107.674M1
27) l6	1242-4	4.114	4.668	8691906	11257931	113.376	109.865M4
28) l6	1242-5	4.453	4.965	5307112	8750334	115.802M3	110.933M4
Sum	1242-1			41483883	74403840	554.555	562.144
Average	1242-1					110.911	112.429
29) l9	1268-1	6.174	6.724	38391429	57871229	101.218	103.713
30) l9	1268-2	6.201	6.757	38570565	57886200	97.541	100.432
31) l9	1268-3	6.334	6.933	25267155	37705856	98.271	101.508
32) l9	1268-4	6.573	7.114	11701333	17867266	96.257	99.985
33) l9	1268-5	6.764	7.339	70090760	106.9E6	95.679	98.114
Sum	1268-1			184.0E6	278.3E6	NoCal	NoCal
Average	1268-1					97.793	100.751
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 9:38 am
Operator : pest16:jw
Sample : il4268,42e,,8669
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:41:39 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:39:59 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

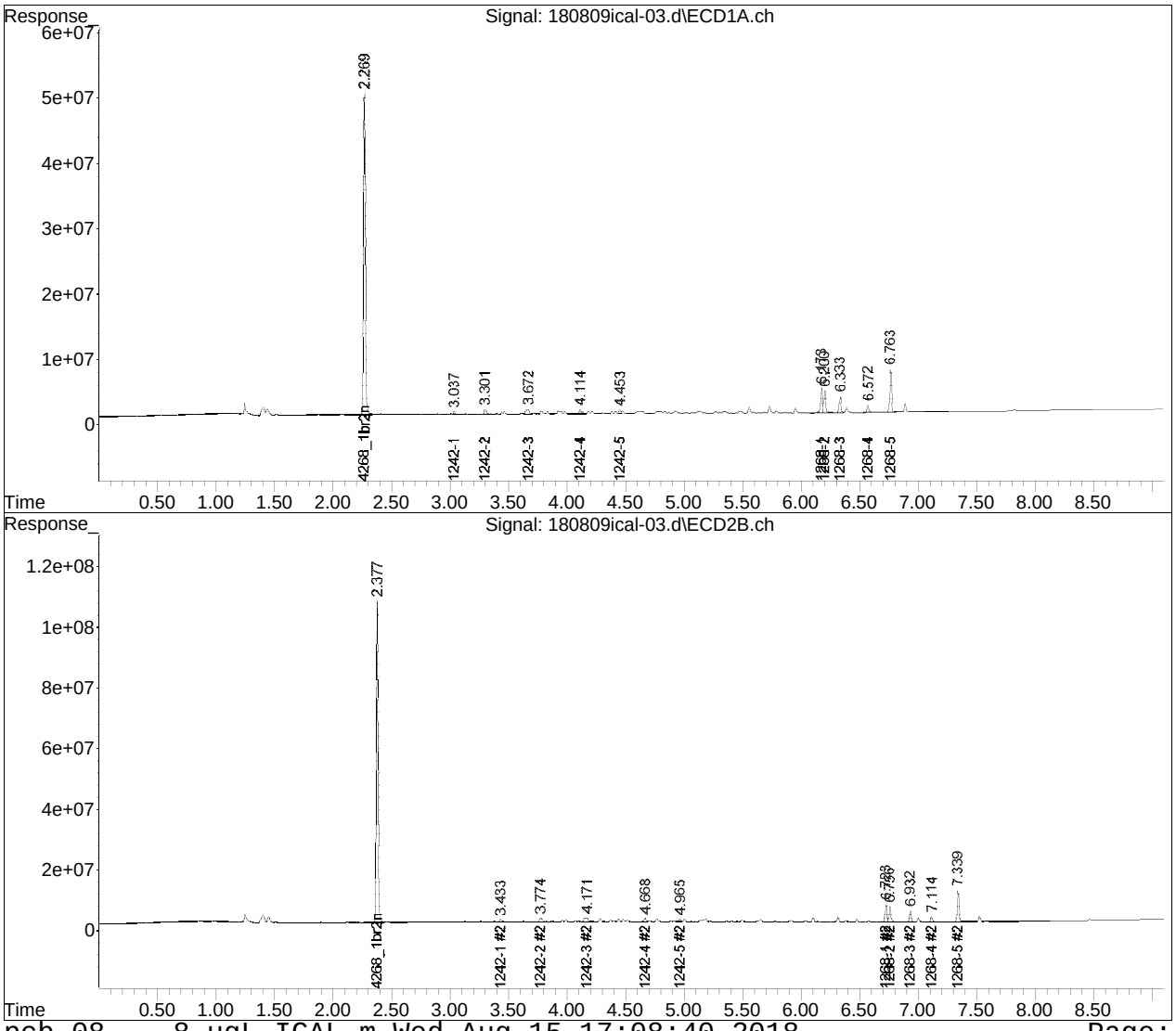
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 9:38 am
Operator : pest16:jw
Sample : il4268,42e,,8669
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:41:39 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:39:59 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

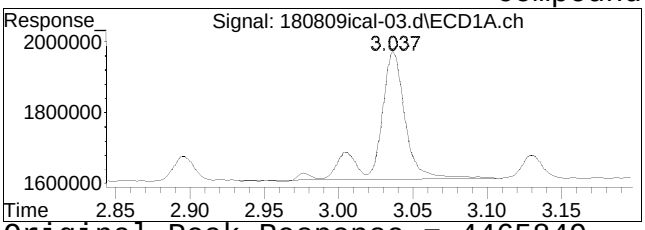


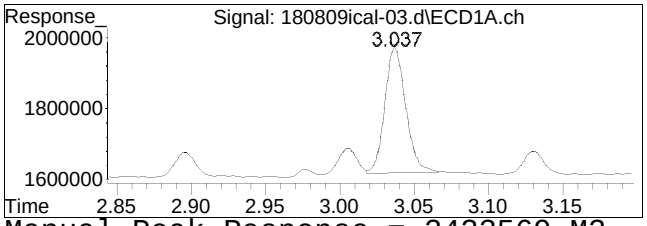
Manual Integration Report

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-03.d
Date Inj'd : 8/9/2018 9:38 am
Sample : il4268,42e,,8669

QMethod : P16_pcb_08_09i_18_ugL_IC
Operator : pest16:jw
Instrument : PEST16
Quant Date : 8/15/2018 11:40 am

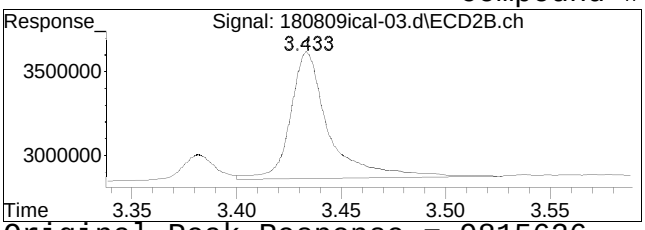
Compound #24: 1242-1

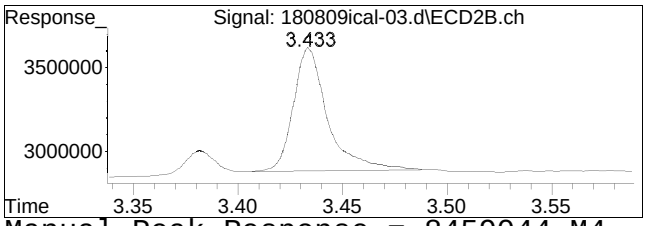




Original Peak Response = 4465849 Manual Peak Response = 3433569 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

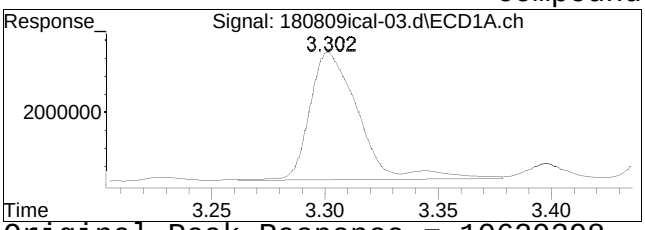
Compound #75: 1242-1 #2

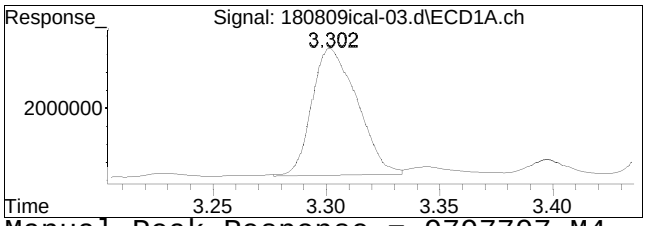




Original Peak Response = 9815626 Manual Peak Response = 8459044 M4
M4 = Poor automated baseline construction.

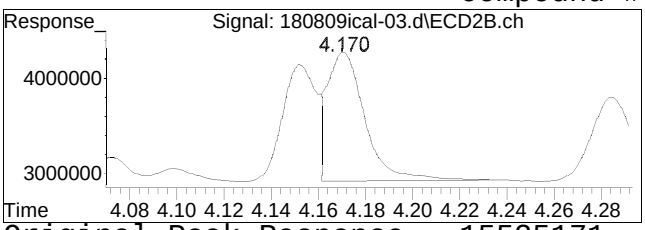
Compound #25: 1242-2

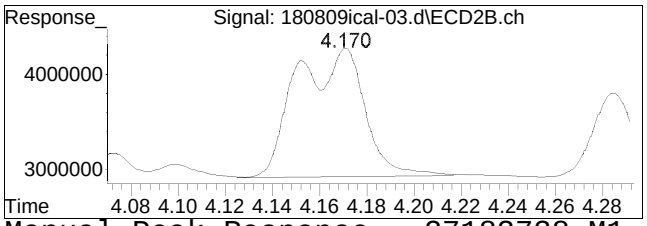




Original Peak Response = 10629398 Manual Peak Response = 9797707 M4
M4 = Poor automated baseline construction.

Compound #77: 1242-3 #2





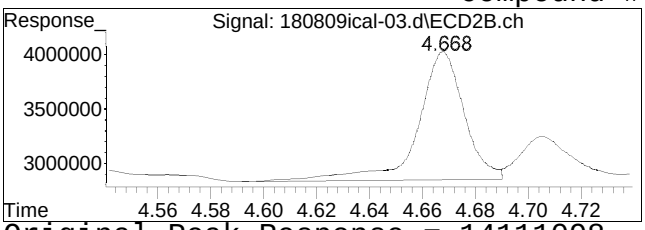
Original Peak Response = 15525171 Manual Peak Response = 27183738 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

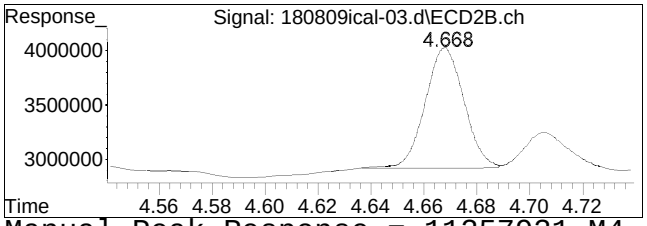
Manual Integration Report

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-03.d
Date Inj'd : 8/9/2018 9:38 am
Sample : il4268,42e,,8669

QMethod : P16_pcb_08_09i_18_ugL_IC
Operator : pest16:jw
Instrument : PEST16
Quant Date : 8/15/2018 11:40 am

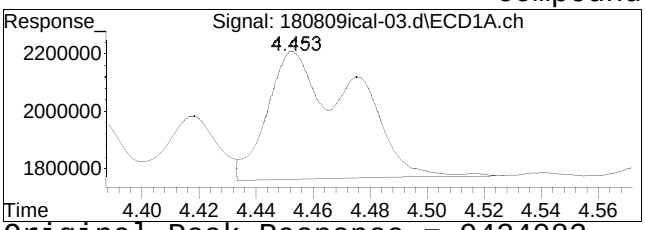
Compound #78: 1242-4 #2

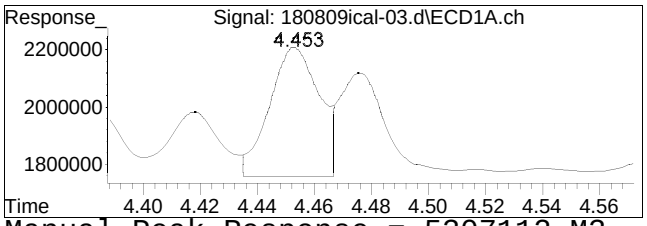




Original Peak Response = 14111098 Manual Peak Response = 11257931 M4
M4 = Poor automated baseline construction.

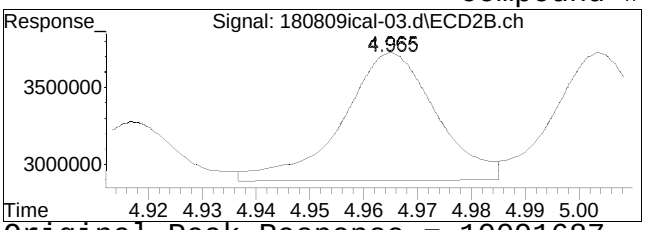
Compound #28: 1242-5

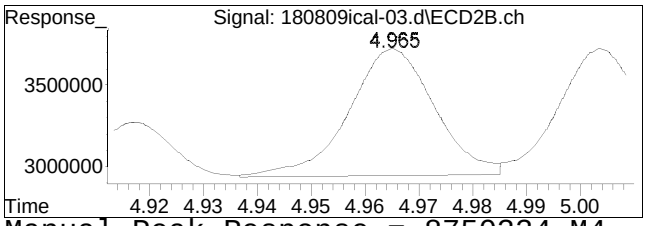




Original Peak Response = 9424083 Manual Peak Response = 5307112 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Compound #79: 1242-5 #2





Original Peak Response = 10091687 Manual Peak Response = 8750334 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 9:50 am
Operator : pest16:jw
Sample : i24268,42e,,8668
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:37:38 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:35:43 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	2.270	2.378	499.2E6	983.6E6	250.000	250.000
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-T...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	500.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
3) s	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	500.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 9:50 am
Operator : pest16:jw
Sample : i24268,42e,,8668
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:37:38 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:35:43 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	3.037	3.434	17043592	35773340	589.265	575.262
25) l6	1242-2	3.300	3.774	42081440	84462047	595.159M3	597.711
26) l6	1242-3	3.671	4.170	63330556	129.2E6	513.129	589.138M1
27) l6	1242-4	4.113	4.668	36397179	50708555	537.609	564.270M4
28) l6	1242-5	4.451	4.966	21555505	39133094	531.283M3	566.103
Sum	1242-1			180.4E6	339.3E6	2766.445	2892.484
Average	1242-1					553.289	578.497
29) l9	1268-1	6.172	6.721	178.1E6	263.2E6	530.181	530.841
30) l9	1268-2	6.200	6.754	182.9E6	267.6E6	520.336	520.458
31) l9	1268-3	6.332	6.930	117.1E6	171.1E6	510.068	515.117
32) l9	1268-4	6.570	7.111	54074091	82849669	495.313	519.405
33) l9	1268-5	6.761	7.336	343.4E6	508.0E6	529.043	522.955
Sum	1268-1			875.6E6	1292.8E6	NoCal	NoCal
Average	1268-1					516.988	521.755
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 9:50 am
Operator : pest16:jw
Sample : i24268,42e,,8668
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:37:38 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:35:43 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

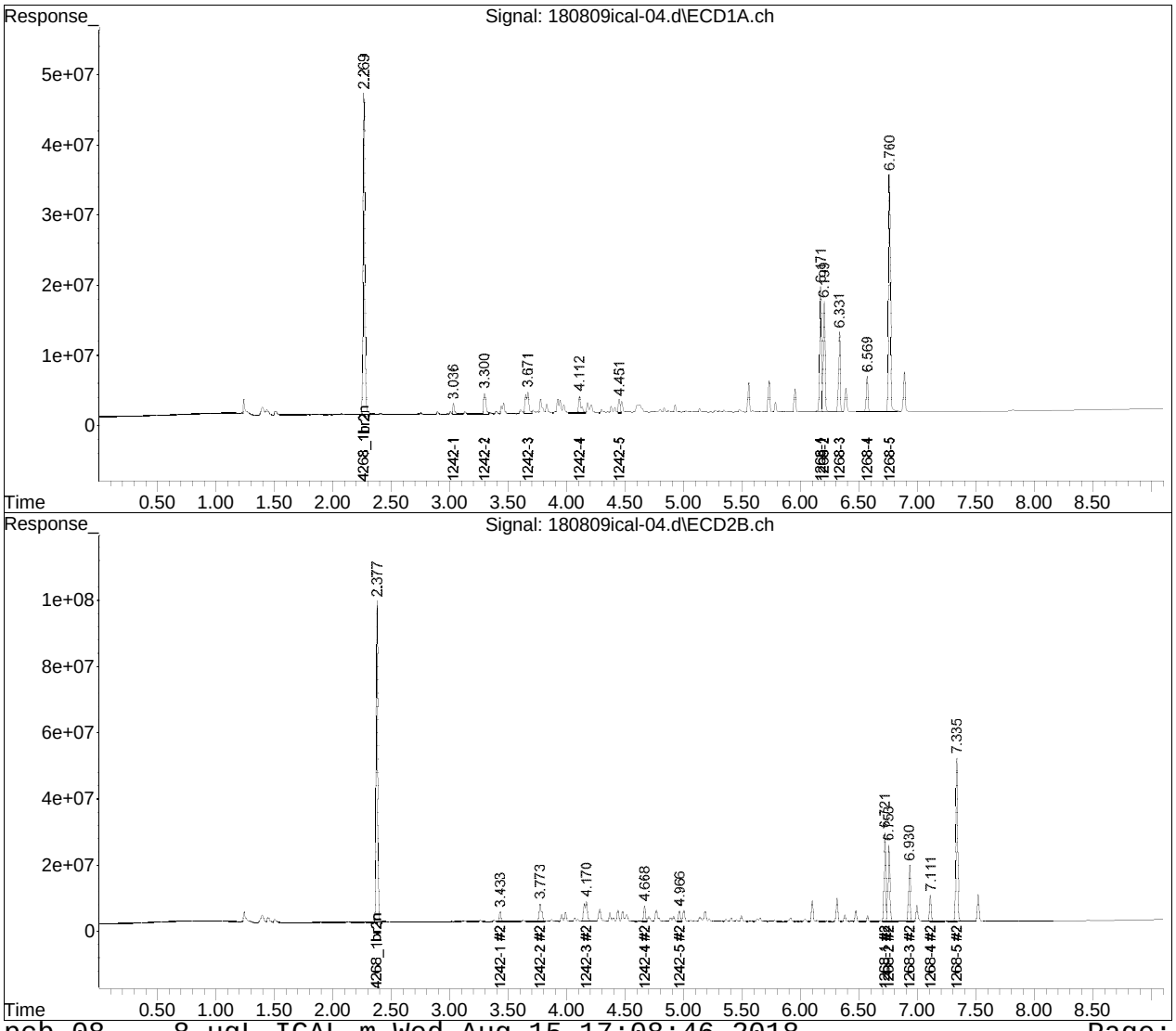
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 9:50 am
Operator : pest16:jw
Sample : i24268,42e,,8668
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:37:38 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:35:43 2018
Response via : Initial Calibration
Integrator: ChemStation

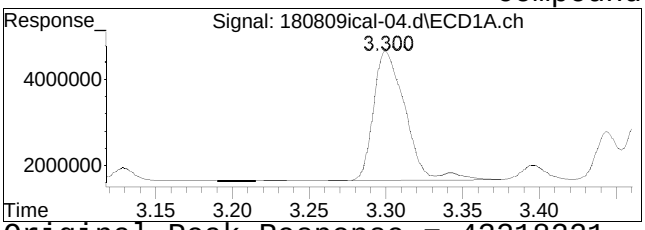
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

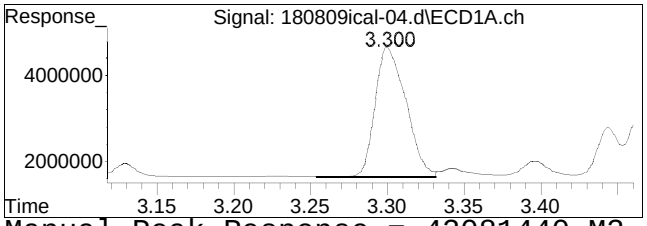


Manual Integration Report

Data Path : I:\Pest16\180809ICAL\ QMethod : P16_pcb_08_09i_18_ugL_IC
Data File : 180809ical-04.d Operator : pest16:jw
Date Inj'd : 8/9/2018 9:50 am Instrument : PEST16
Sample : i24268,42e,,8668 Quant Date : 8/15/2018 11:36 am

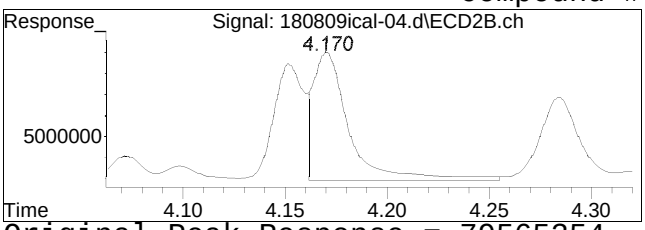
Compound #25: 1242-2

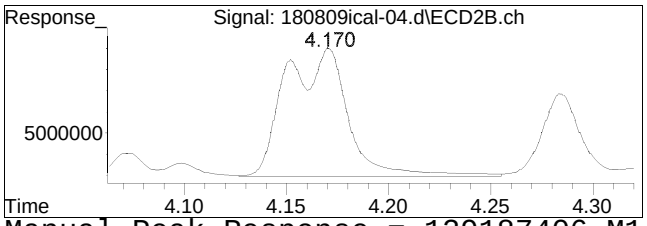




Original Peak Response = 43218221 Manual Peak Response = 42081440 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

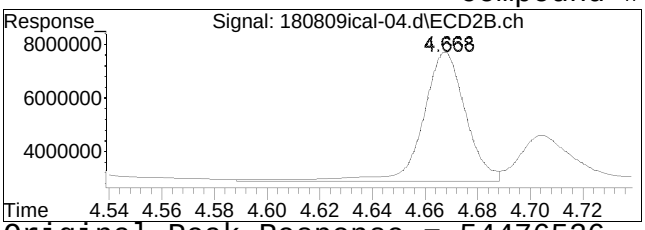
Compound #77: 1242-3 #2

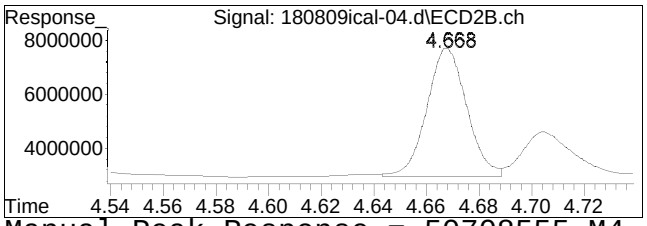




Original Peak Response = 79565354 Manual Peak Response = 129187406 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

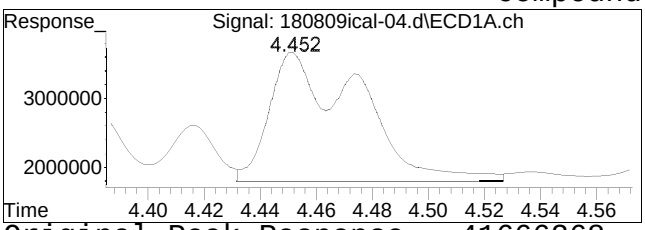
Compound #78: 1242-4 #2

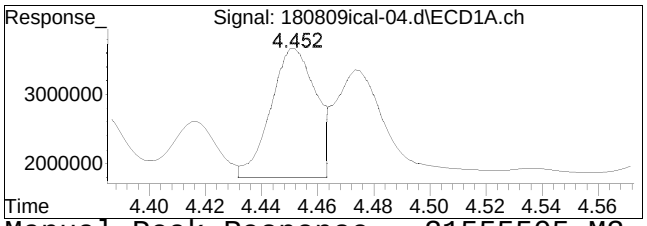




Original Peak Response = 54476536 Manual Peak Response = 50708555 M4
M4 = Poor automated baseline construction.

Compound #28: 1242-5





Original Peak Response = 41666268 Manual Peak Response = 21555505 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-05.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 10:03 am
Operator : pest16:jw
Sample : i34268,42e,,8667
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:35:35 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:34:26 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	2.267	2.375	562.0E6	1107.8E6	250.000	250.000
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-T...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	500.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
3) s	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	500.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-05.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 10:03 am
Operator : pest16:jw
Sample : i34268,42e,,8667
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:35:35 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:34:26 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	3.035	3.432	33272321	72437173	1029.265	1046.250
25) l6	1242-2	3.298	3.773	77746088	157.5E6	969.138M3	985.882
26) l6	1242-3	3.669	4.169	136.8E6	275.2E6	979.527	1158.294M1
27) l6	1242-4	4.111	4.666	69806092	95535891	890.852	926.633
28) l6	1242-5	4.449	4.964	44306273	78499094	960.367M3	1011.100
Sum	1242-1			361.9E6	679.1E6	4829.150	5128.158
Average	1242-1					965.830	1025.632
29) l9	1268-1	6.168	6.718	341.6E6	502.1E6	874.956	869.955
30) l9	1268-2	6.196	6.750	351.9E6	514.3E6	857.435	855.969
31) l9	1268-3	6.328	6.926	226.4E6	328.2E6	841.482	843.010
32) l9	1268-4	6.567	7.107	108.1E6	161.3E6	845.306	868.222
33) l9	1268-5	6.757	7.331	664.3E6	980.1E6	882.313	865.798
Sum	1268-1			1692.4E6	2486.0E6	NoCal	NoCal
Average	1268-1					860.298	860.591
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-05.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 10:03 am
Operator : pest16:jw
Sample : i34268,42e,,8667
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:35:35 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:34:26 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

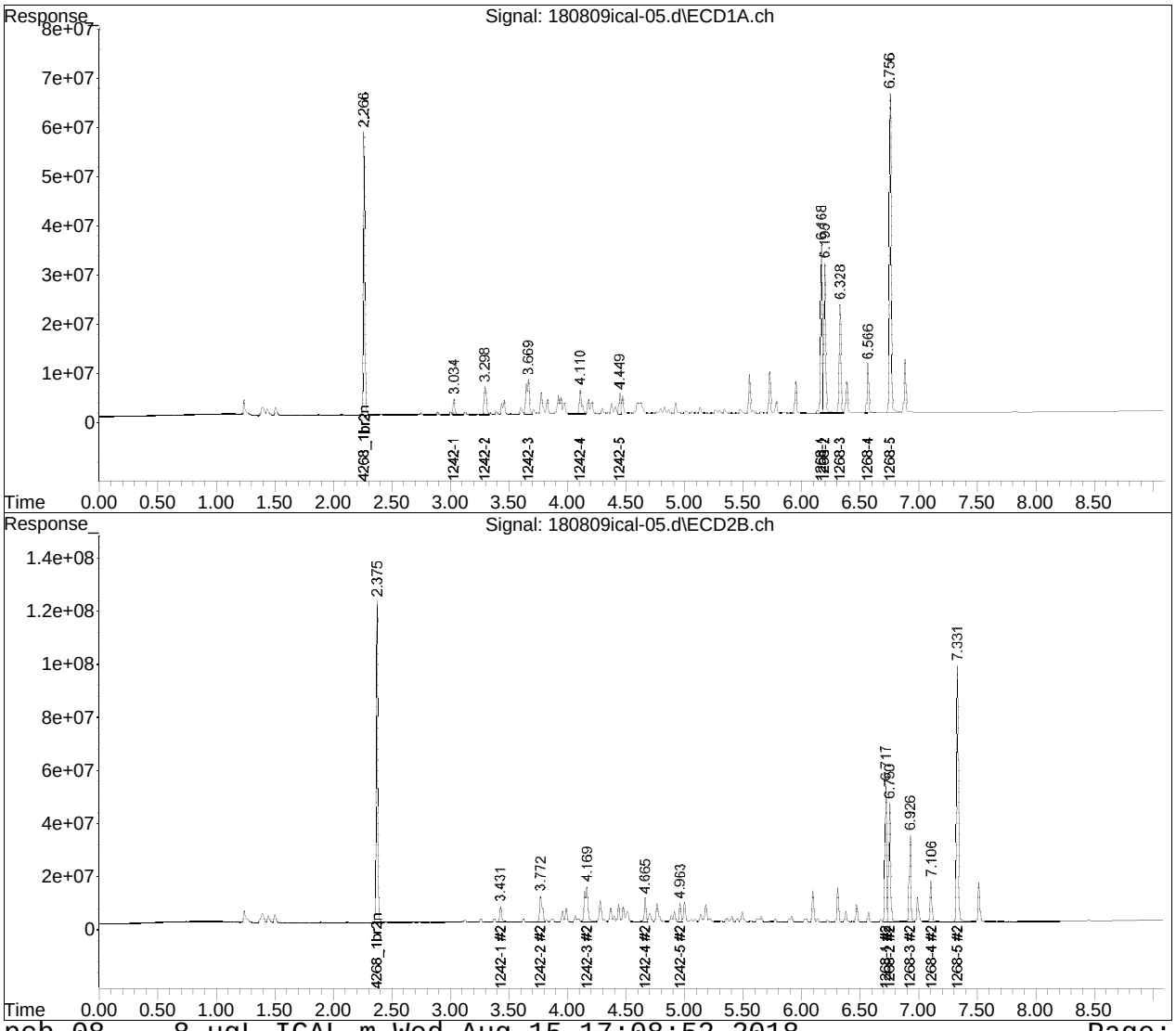
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-05.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 10:03 am
Operator : pest16:jw
Sample : i34268,42e,,8667
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:35:35 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:34:26 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

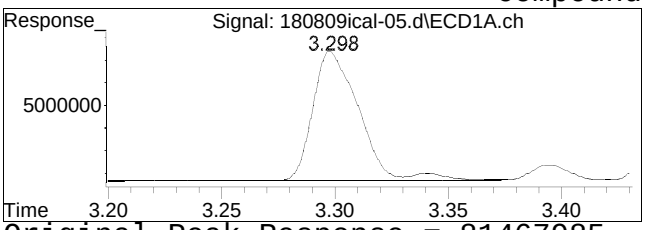


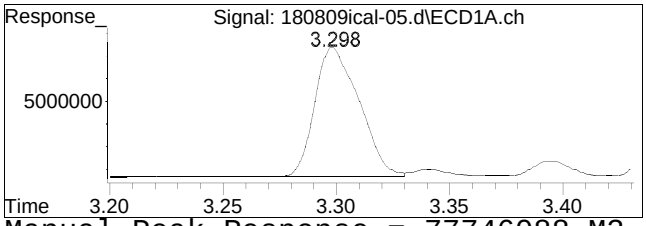
Manual Integration Report

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-05.d
Date Inj'd : 8/9/2018 10:03 am
Sample : i34268,42e,,8667

QMethod : P16_pcb_08_09i_18_ugL_IC
Operator : pest16:jw
Instrument : PEST16
Quant Date : 8/15/2018 11:34 am

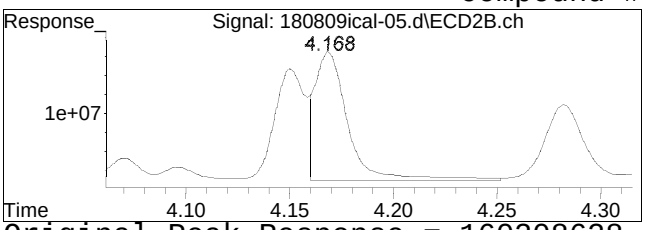
Compound #25: 1242-2

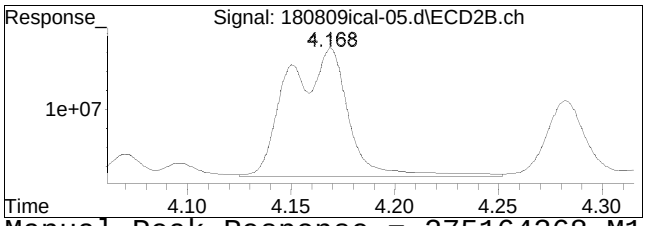




Original Peak Response = 81467985 Manual Peak Response = 77746088 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

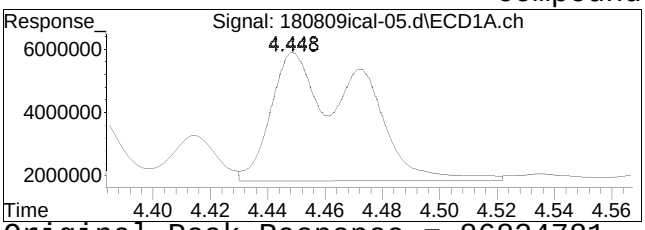
Compound #77: 1242-3 #2

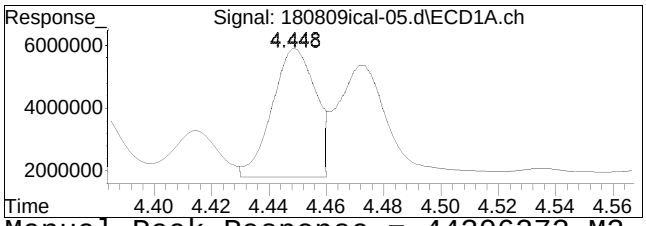




Original Peak Response = 160208628 Manual Peak Response = 275164368 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Compound #28: 1242-5





Original Peak Response = 86824781 Manual Peak Response = 44306273 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-06.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 10:16 am
Operator : pest16:jw
Sample : i44268,42e,,8666
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:31:40 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:30:22 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	2.270	2.377	532.9E6	1063.8E6	250.000	250.000
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-T...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	500.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
3) s	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	500.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-06.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 10:16 am
Operator : pest16:jw
Sample : i44268,42e,,8666
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:31:40 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:30:22 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	3.035	3.432	82237021	182.4E6	NoCal M3	NoCal
25) l6	1242-2	3.299	3.772	209.0E6	419.0E6	NoCal M1	NoCal
26) l6	1242-3	3.669	4.168	345.3E6	686.2E6	NoCal	NoCal M1
27) l6	1242-4	4.112	4.666	199.0E6	268.1E6	NoCal	NoCal
28) l6	1242-5	4.449	4.964	107.8E6	195.8E6	NoCal M3	NoCal
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	6.170	6.720	1007.6E6	1483.7E6	NoCal	NoCal
30) l9	1268-2	6.198	6.753	1051.6E6	1534.7E6	NoCal	NoCal
31) l9	1268-3	6.330	6.929	680.8E6	986.3E6	NoCal	NoCal
32) l9	1268-4	6.569	7.110	316.7E6	466.9E6	NoCal	NoCal
33) l9	1268-5	6.760	7.335	1969.4E6	2943.3E6	NoCal	NoCal
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-06.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 10:16 am
Operator : pest16:jw
Sample : i44268,42e,,8666
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:31:40 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:30:22 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

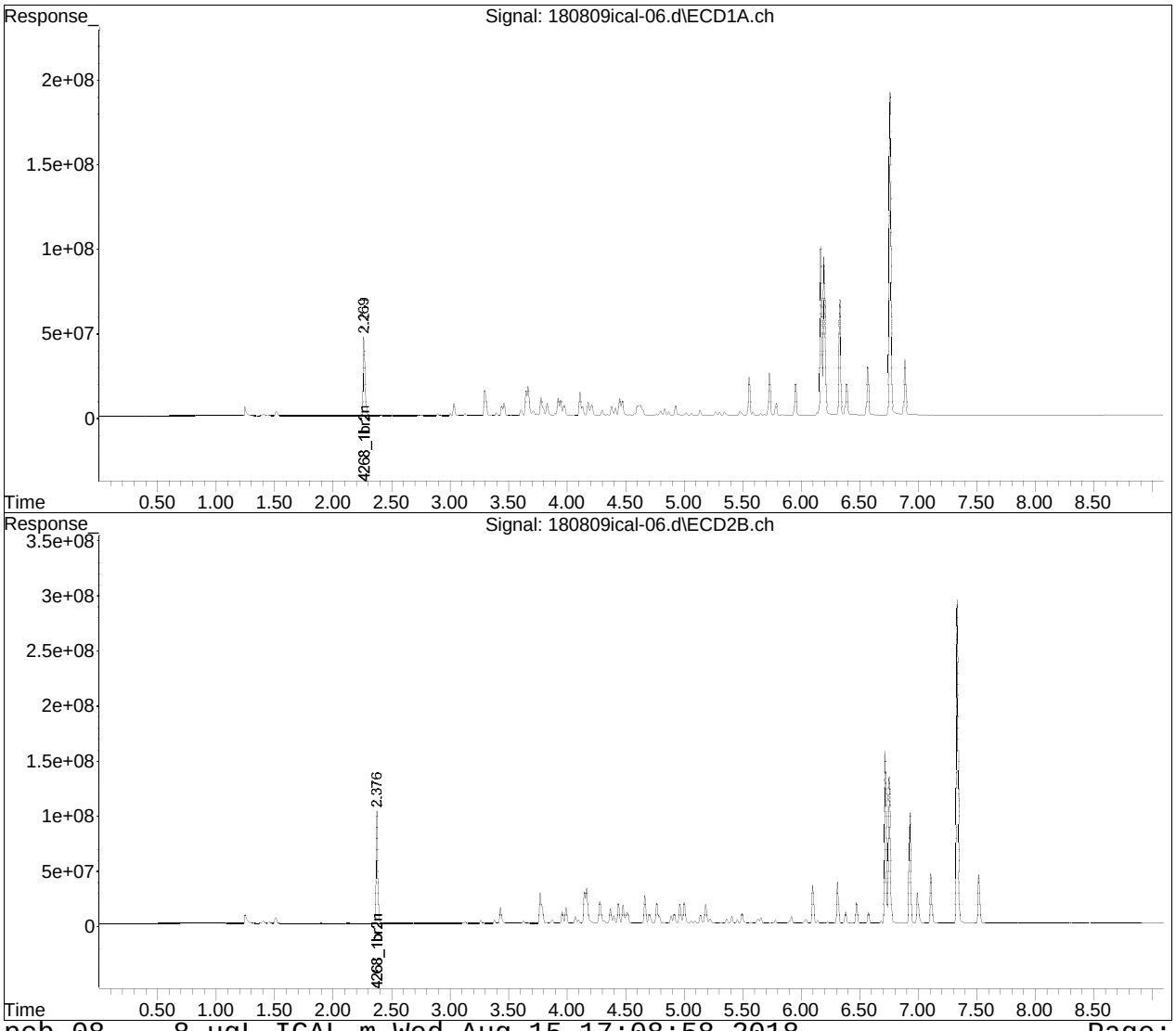
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-06.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 10:16 am
Operator : pest16:jw
Sample : i44268,42e,,8666
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:31:40 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:30:22 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

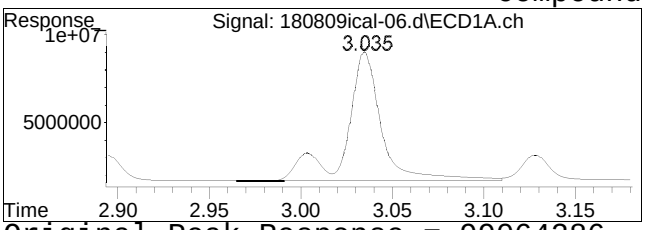


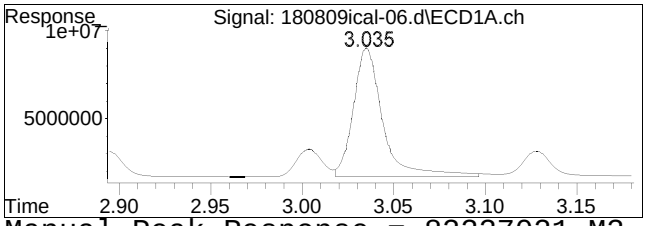
Manual Integration Report

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-06.d
Date Inj'd : 8/9/2018 10:16 am
Sample : i44268,42e,,8666

QMethod : P16_pcb_08_09i_18_ugL_IC
Operator : pest16:jw
Instrument : PEST16
Quant Date : 8/15/2018 11:30 am

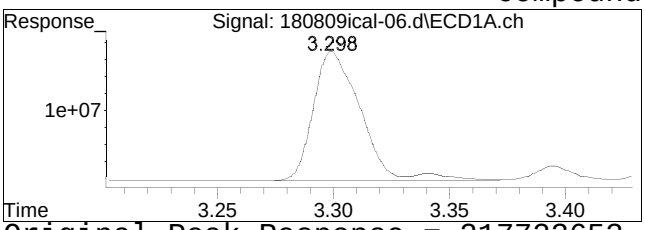
Compound #24: 1242-1

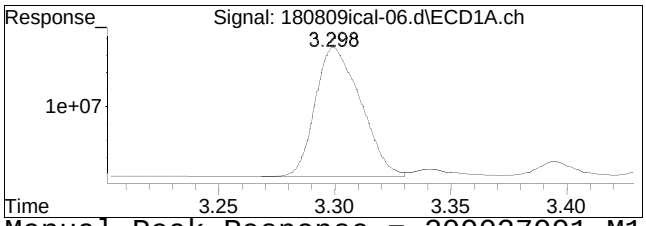




Original Peak Response = 99064286 Manual Peak Response = 82237021 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

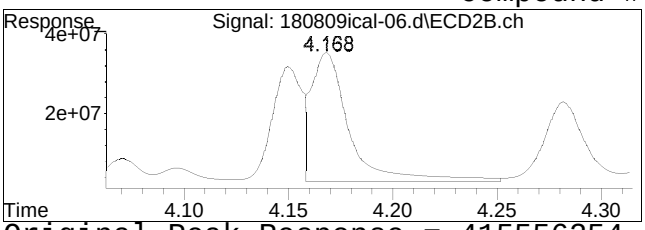
Compound #25: 1242-2

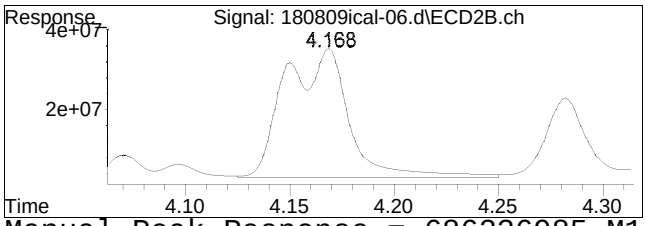




Original Peak Response = 217723653 Manual Peak Response = 209027991 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

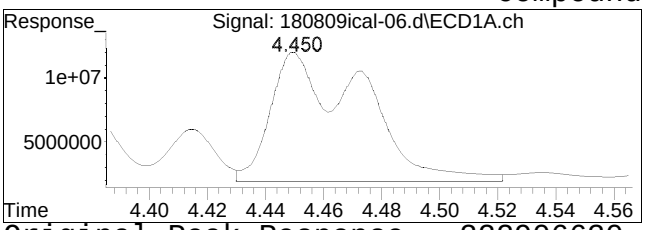
Compound #77: 1242-3 #2

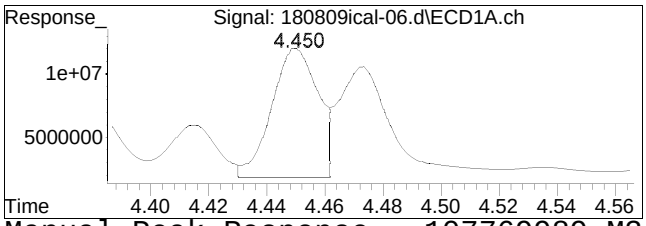




Original Peak Response = 415556254 Manual Peak Response = 686236985 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Compound #28: 1242-5





Original Peak Response = 222906630 Manual Peak Response = 107769989 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-07.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 10:29 am
Operator : pest16:jw
Sample : i54268,42e,,8665
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:44:22 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:31:48 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	2.268	2.376	575.8E6	1148.9E6	250.000	250.000
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-T...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	500.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
3) s	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	500.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-07.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 10:29 am
Operator : pest16:jw
Sample : i54268,42e,,8665
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:44:22 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:31:48 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	3.035	3.431	162.0E6	344.2E6	4557.057	4370.050
25) l6	1242-2	3.298	3.771	390.9E6	793.6E6	4327.094M3	4383.919M1
26) l6	1242-3	3.669	4.168	716.6E6	1397.4E6	4800.801	4713.842M1
27) l6	1242-4	4.111	4.665	385.3E6	509.3E6	4479.530	4398.006
28) l6	1242-5	4.449	4.963	244.8E6	393.9E6	5255.706M3	4657.608
Sum	1242-1			1899.6E6	3438.4E6	23420.189	22523.425
Average	1242-1					4684.038	4504.685
29) l9	1268-1	6.169	6.718	1936.2E6	2882.9E6	4445.773	4498.061
30) l9	1268-2	6.196	6.751	2027.6E6	2995.0E6	4460.969	4517.764
31) l9	1268-3	6.329	6.927	1327.7E6	1938.6E6	4512.190	4550.076
32) l9	1268-4	6.566	7.107	624.3E6	920.1E6	4560.720	4561.874
33) l9	1268-5	6.757	7.332	3741.4E6	5687.3E6	4395.295	4473.090
Sum	1268-1			9657.2E6	14423.9E6	NoCal	NoCal
Average	1268-1					4474.989	4520.173
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-07.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 10:29 am
Operator : pest16:jw
Sample : i54268,42e,,8665
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:44:22 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:31:48 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

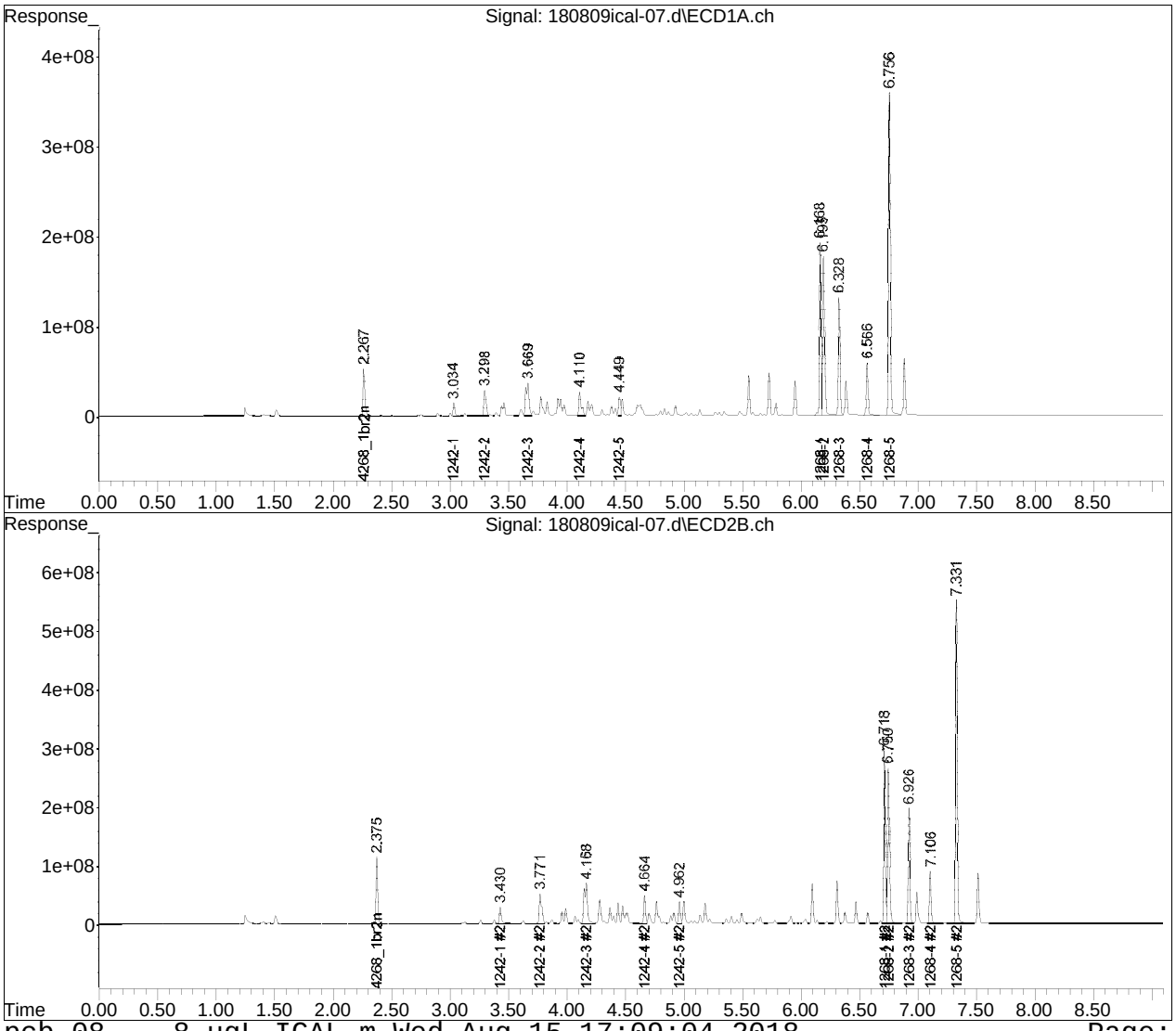
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-07.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 10:29 am
Operator : pest16:jw
Sample : i54268,42e,,8665
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:44:22 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:31:48 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

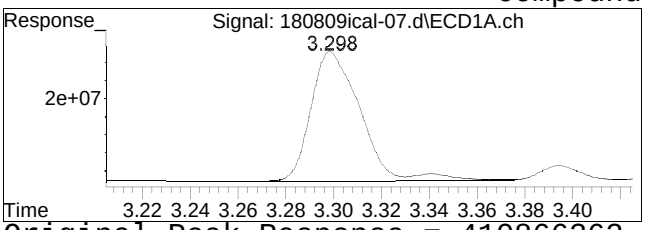


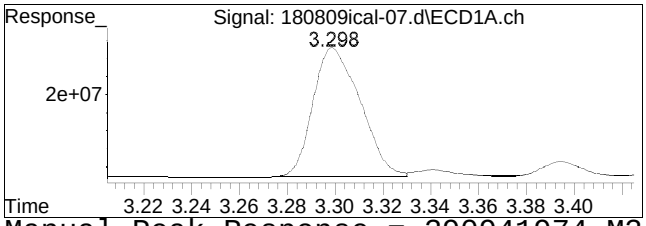
Manual Integration Report

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-07.d
Date Inj'd : 8/9/2018 10:29 am
Sample : i54268,42e,,8665

QMethod : P16_pcb_08_09i_18_ugL_IC
Operator : pest16:jw
Instrument : PEST16
Quant Date : 8/15/2018 11:31 am

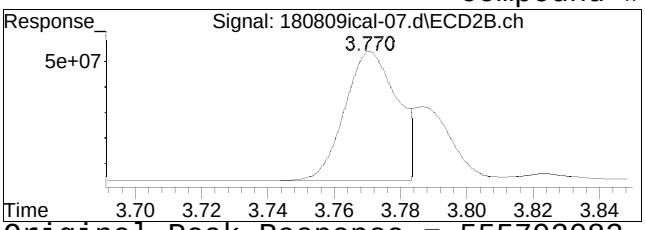
Compound #25: 1242-2

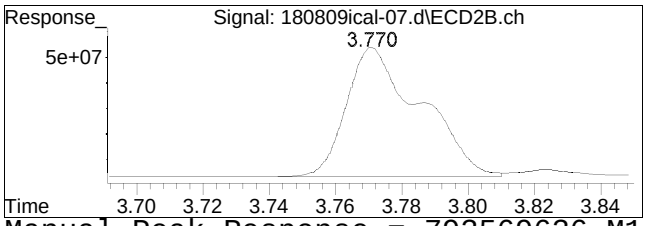




Original Peak Response = 410866362 Manual Peak Response = 390941974 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

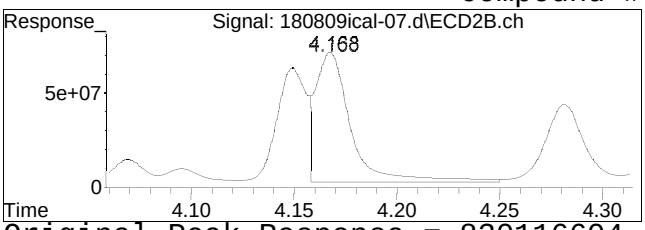
Compound #76: 1242-2 #2

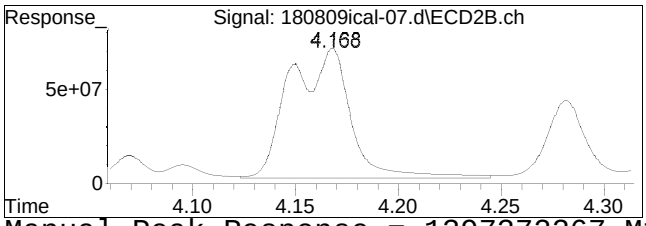




Original Peak Response = 555793083 Manual Peak Response = 793569636 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

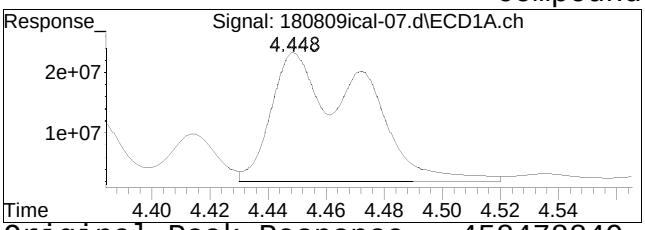
Compound #77: 1242-3 #2

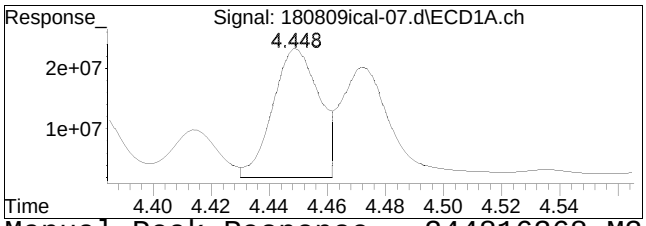




Original Peak Response = 830116604 Manual Peak Response = 1397372267 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Compound #28: 1242-5





Original Peak Response = 458478849 Manual Peak Response = 244816368 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-08.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 10:42 am
Operator : pest16:jw
Sample : i64268,42e,,8664
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:34:19 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:33:06 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	2.267	2.376	569.4E6	1132.8E6	250.000	250.000
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-T...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	500.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
3) s	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	500.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-08.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 10:42 am
Operator : pest16:jw
Sample : i64268,42e,,8664
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:34:19 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:33:06 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	3.034	3.431	310.7E6	668.3E6	9248.759	9182.798
25) l6	1242-2	3.298	3.771	771.7E6	1549.6E6	9260.724	9251.806
26) l6 #	1242-3	3.668	4.167	1351.7E6	2727.7E6	9343.359M1	11963.509M1
27) l6	1242-4	4.109	4.665	769.2E6	1016.6E6	9540.787M1	9473.795
28) l6	1242-5	4.449	4.963	457.4E6	770.8E6	9682.993	9570.238
Sum	1242-1			3660.6E6	6733.1E6	47076.621	49442.146
Average	1242-1					9415.324	9888.429
29) l9	1268-1	6.169	6.719	3730.1E6	5701.0E6	9169.486	9497.616
30) l9	1268-2	6.196	6.751	3971.1E6	5987.9E6	9338.733	9624.389
31) l9	1268-3	6.329	6.927	2643.3E6	3919.7E6	9550.149	9769.936
32) l9	1268-4	6.566	7.109	1297.8E6	1895.5E6	10029.066	9967.768
33) l9	1268-5	6.758	7.333	7067.9E6	10976.6E6	8937.279	9242.591
Sum	1268-1			18710.2E6	28480.6E6	NoCal	NoCal
Average	1268-1					9404.943	9620.460
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-08.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 10:42 am
Operator : pest16:jw
Sample : i64268,42e,,8664
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:34:19 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:33:06 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

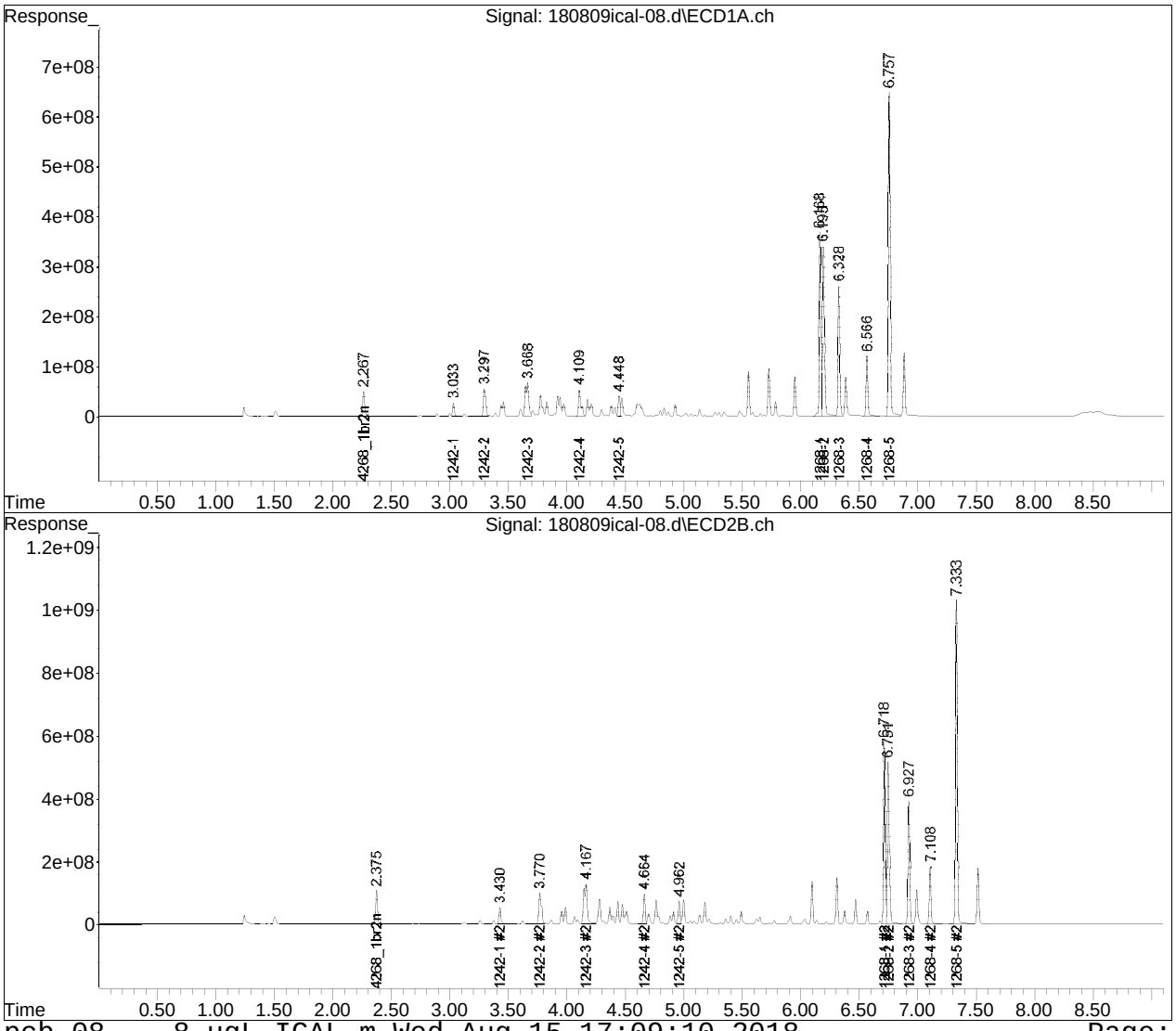
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-08.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 10:42 am
Operator : pest16:jw
Sample : i64268,42e,,8664
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:34:19 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:33:06 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

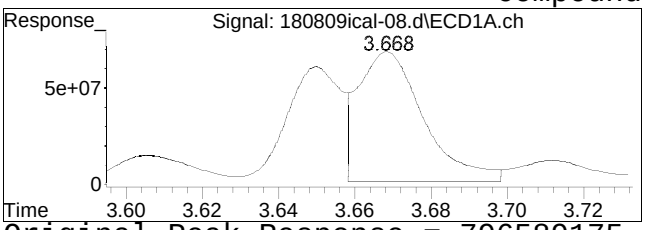


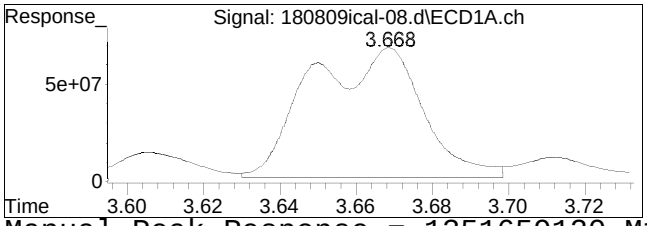
Manual Integration Report

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-08.d
Date Inj'd : 8/9/2018 10:42 am
Sample : i64268,42e,,8664

QMethod : P16_pcb_08_09i_18_ugL_IC
Operator : pest16:jw
Instrument : PEST16
Quant Date : 8/15/2018 11:33 am

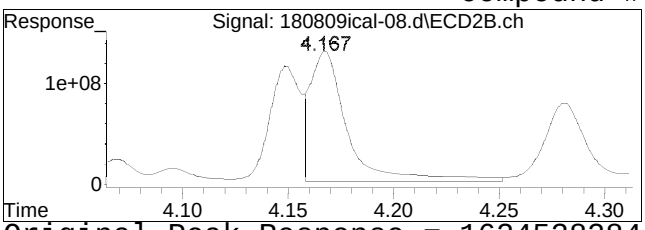
Compound #26: 1242-3

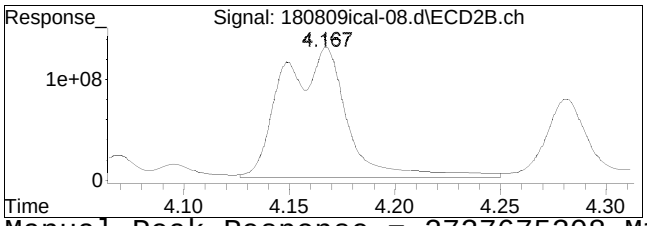




Original Peak Response = 796589175 Manual Peak Response = 1351659120 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

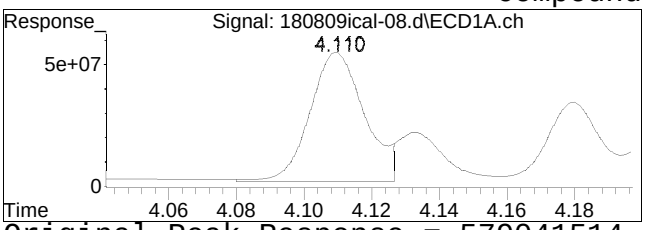
Compound #77: 1242-3 #2

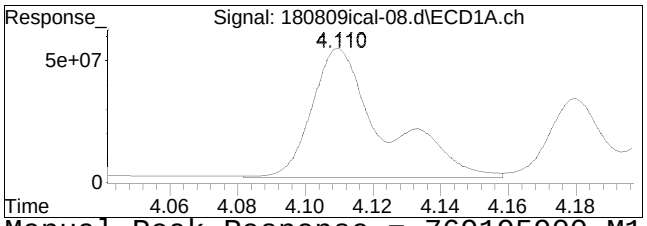




Original Peak Response = 1624538284 Manual Peak Response = 2727675308 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Compound #27: 1242-4





Original Peak Response = 579041514 Manual Peak Response = 769195900 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-09.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 10:55 am
Operator : pest16:jw
Sample : il13262,42e,,8734
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 12:09:22 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 12:09:07 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	2.265	2.374	670.6E6	1327.9E6	250.000M4	250.000
	System Monitoring Compounds						
2) s	2,4,5,6-T...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
3) s	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-09.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 10:55 am
Operator : pest16:jw
Sample : il13262,42e,,8734
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 12:09:22 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 12:09:07 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-09.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 10:55 am
Operator : pest16:jw
Sample : il13262,42e,,8734
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 12:09:22 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 12:09:07 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1248-1					0.000	0.000
41) l5	1232-1	3.032	3.430	5970116	15304996	104.396M4	121.837
42) l5	1232-2	3.297	3.769	6476513	13302060	108.936M4	108.624M4
43) l5	1232-3	3.668	4.167	10768780	18593871	108.380M4	105.721M4
44) l5	1232-4	4.109	4.664	4640053	7725518	92.728M4	108.635M4
45) l5	1232-5	4.446	4.959	2537676	10204634	87.336M4	166.750M4
#							
Sum	1232-1			30393137	65131079	501.775	611.568
Average	1232-1					100.355	122.314
46) l8	1262-1	5.267	5.776	16253135	22007582	98.358M4	100.551M4
47) l8	1262-2	5.554	6.097	21631654	32464318	98.970M4	104.407M4
48) l8	1262-3	5.733	6.308	19032459	30264328	97.622M4	105.183
49) l8	1262-4	5.948	6.471	35862878	56362830	97.156M4	103.553
50) l8	1262-5	6.166	6.717	15567880	42945651	98.916M3	112.375M4
Sum	1262-1			108.3E6	184.0E6	491.023	526.067
Average	1262-1					98.205	105.213
SemiQuant Compounds - Not Calibrated on this Instrument							
Sum	1262-1			108.3E6	184.0E6	491.023	526.067
Average	1262-1					98.205	105.213

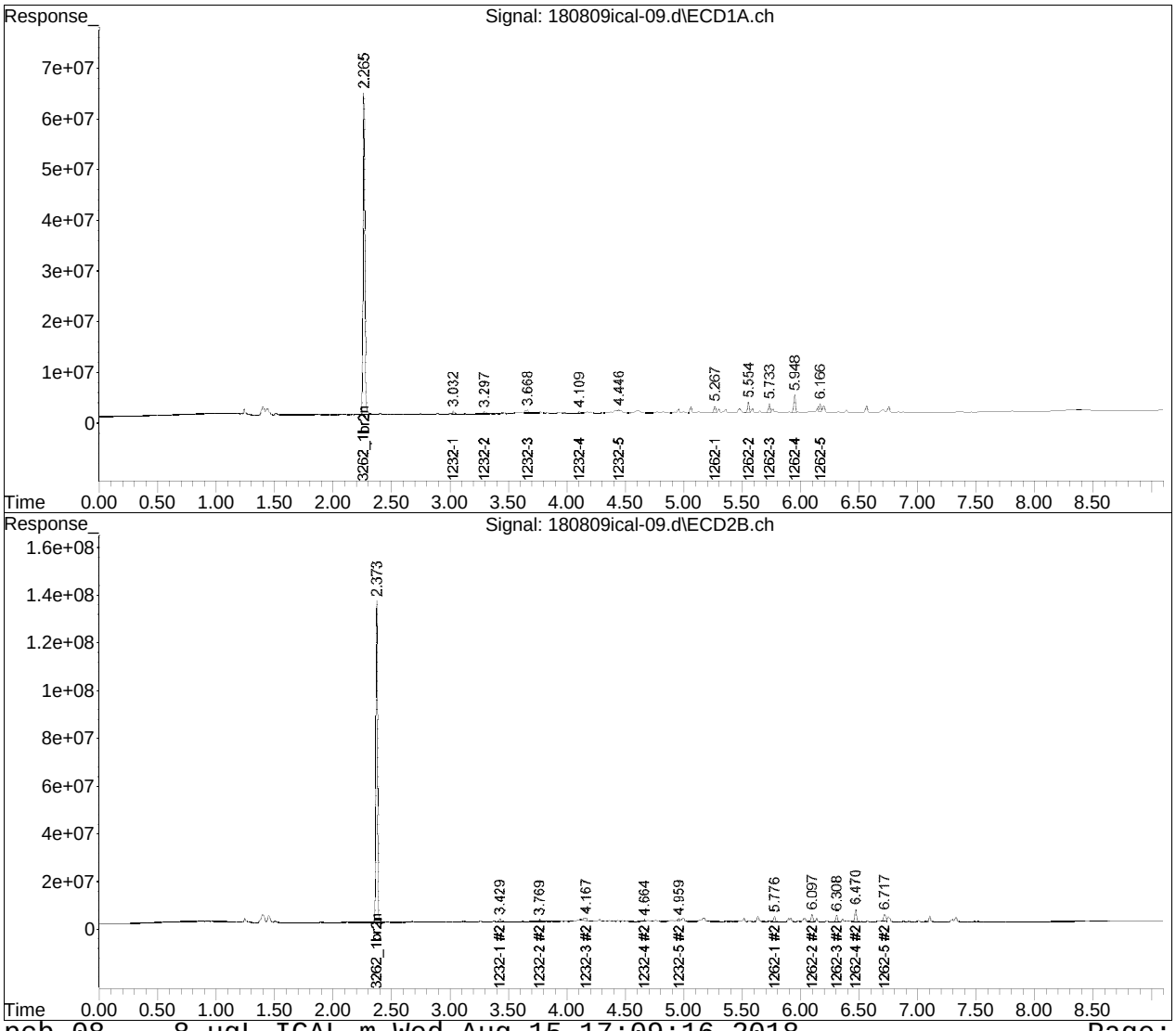
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-09.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 10:55 am
Operator : pest16:jw
Sample : il13262,42e,,8734
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 12:09:22 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 12:09:07 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

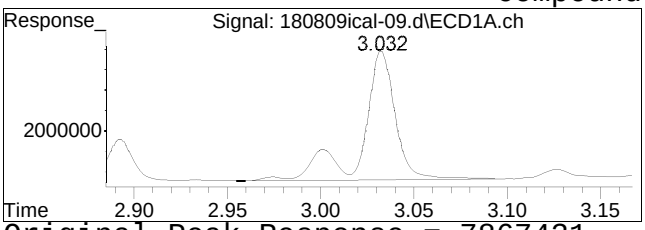


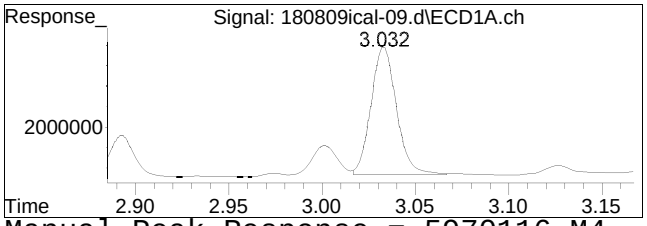
Manual Integration Report

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-09.d
Date Inj'd : 8/9/2018 10:55 am
Sample : il13262,42e,,8734

QMethod : P16_pcb_08_09i_18_ugL_IC
Operator : pest16:jw
Instrument : PEST16
Quant Date : 8/15/2018 12:09 pm

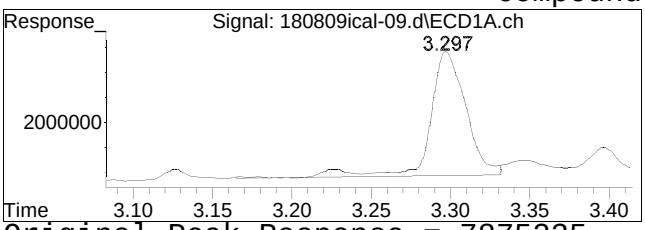
Compound #41: 1232-1

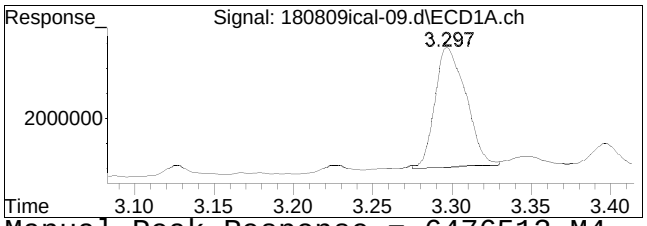




Original Peak Response = 7867431 Manual Peak Response = 5970116 M4
M4 = Poor automated baseline construction.

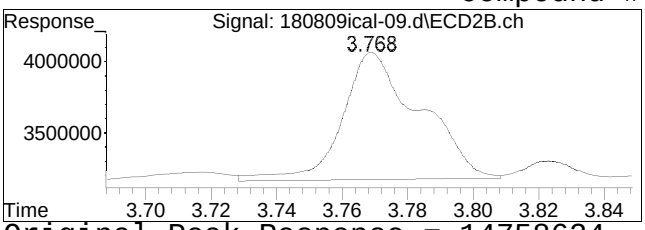
Compound #42: 1232-2

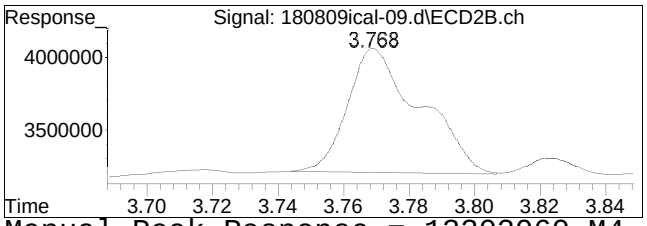




Original Peak Response = 7875235 Manual Peak Response = 6476513 M4
M4 = Poor automated baseline construction.

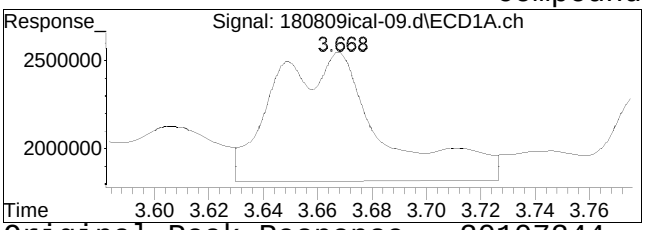
Compound #93: 1232-2 #2

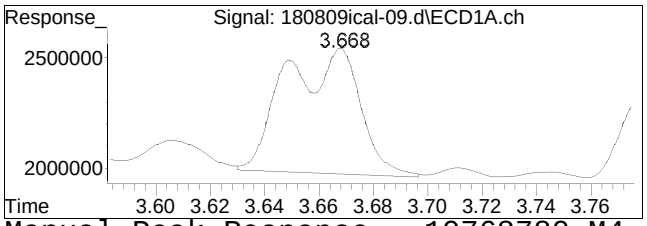




Original Peak Response = 14758624 Manual Peak Response = 13302060 M4
M4 = Poor automated baseline construction.

Compound #43: 1232-3





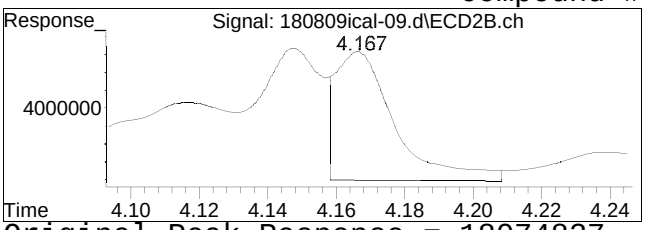
Original Peak Response = 20107244 Manual Peak Response = 10768780 M4
M4 = Poor automated baseline construction.

Manual Integration Report

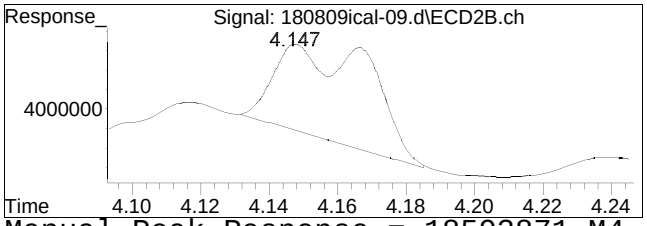
Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-09.d
Date Inj'd : 8/9/2018 10:55 am
Sample : il13262,42e,,8734

QMethod : P16_pcb_08_09i_18_ugL_IC
Operator : pest16:jw
Instrument : PEST16
Quant Date : 8/15/2018 12:09 pm

Compound #94: 1232-3 #2



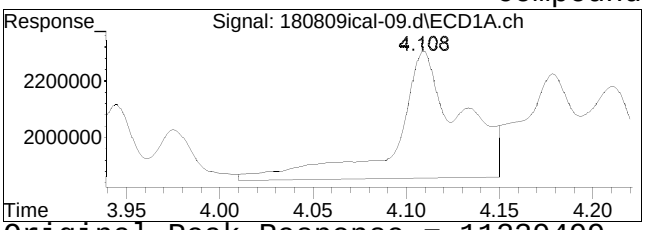
Original Peak Response = 18074837



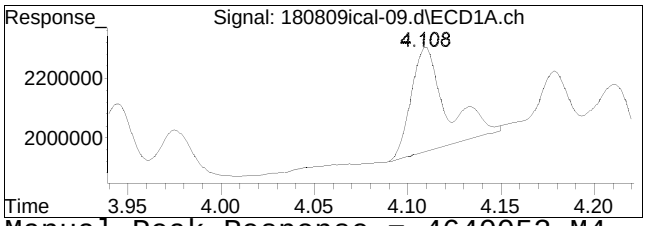
Manual Peak Response = 18593871 M4

M4 = Poor automated baseline construction.

Compound #44: 1232-4



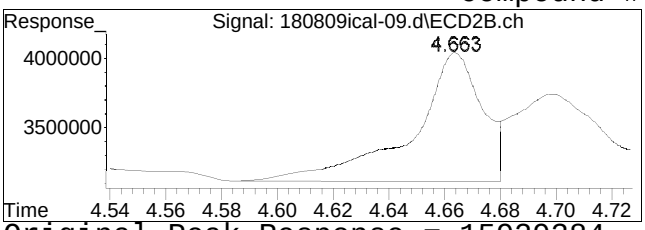
Original Peak Response = 11239499



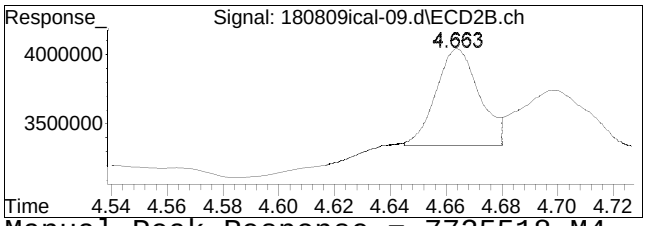
Manual Peak Response = 4640053 M4

M4 = Poor automated baseline construction.

Compound #95: 1232-4 #2



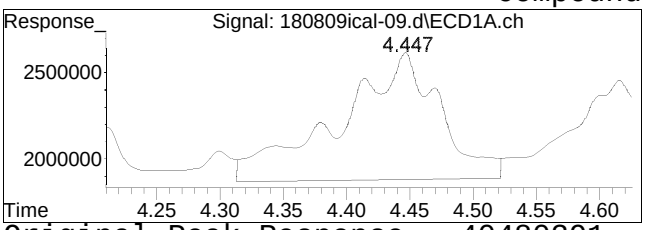
Original Peak Response = 15929384



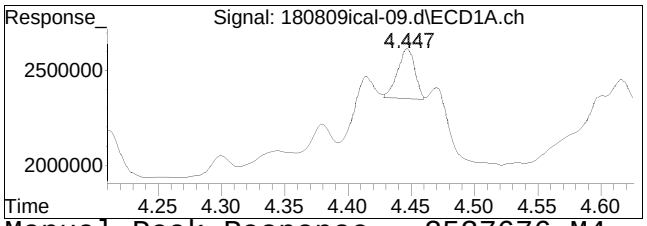
Manual Peak Response = 7725518 M4

M4 = Poor automated baseline construction.

Compound #45: 1232-5



Original Peak Response = 40480391



Manual Peak Response = 2537676 M4

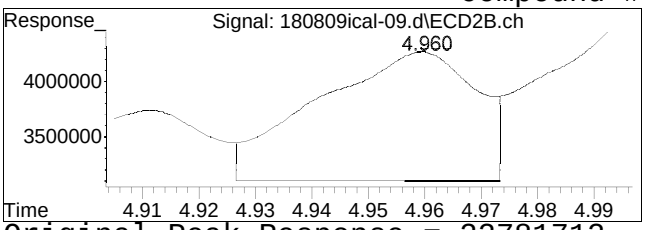
M4 = Poor automated baseline construction.

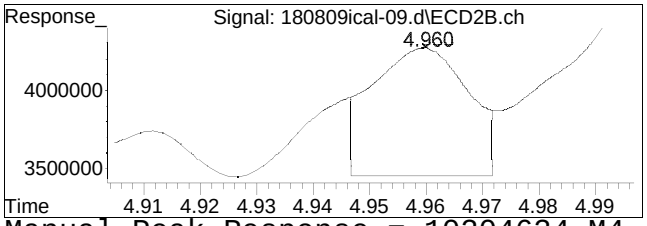
Manual Integration Report

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-09.d
Date Inj'd : 8/9/2018 10:55 am
Sample : il13262,42e,,8734

QMethod : P16_pcb_08_09i_18_ugL_IC
Operator : pest16:jw
Instrument : PEST16
Quant Date : 8/15/2018 12:09 pm

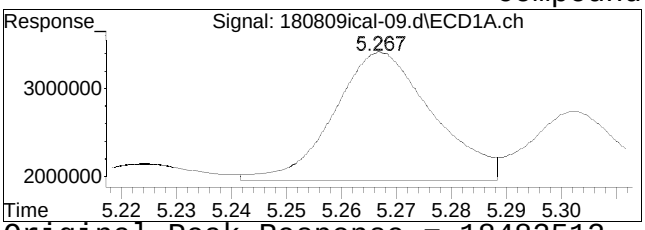
Compound #96: 1232-5 #2

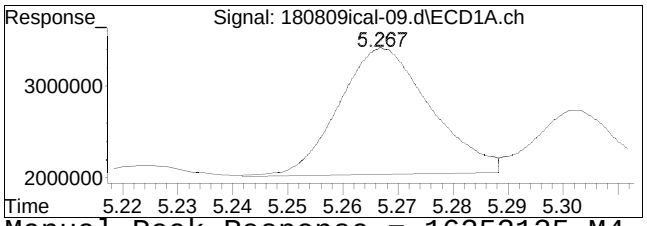




Original Peak Response = 22781712 Manual Peak Response = 10204634 M4
M4 = Poor automated baseline construction.

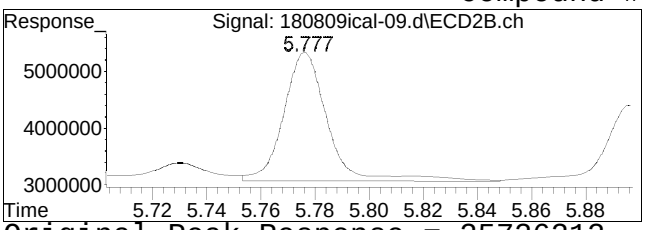
Compound #46: 1262-1

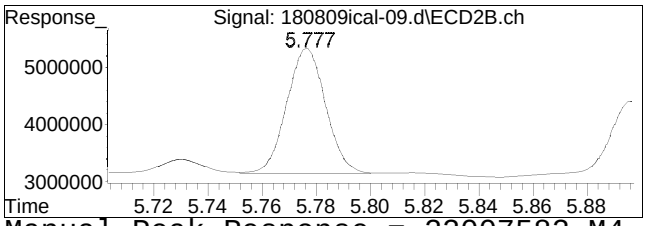




Original Peak Response = 18482512 Manual Peak Response = 16253135 M4
M4 = Poor automated baseline construction.

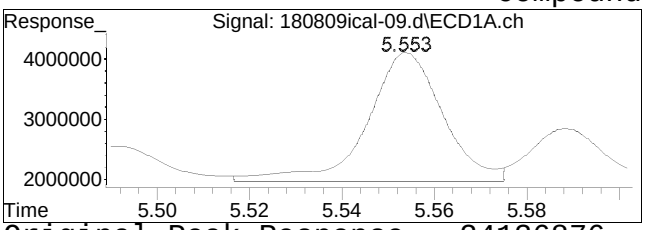
Compound #97: 1262-1 #2

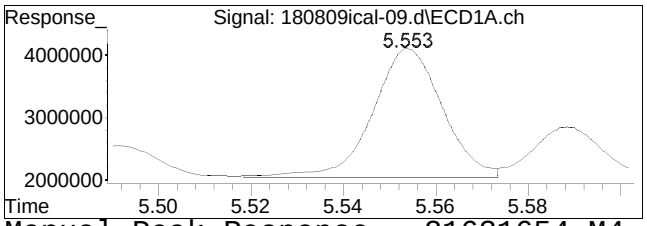




Original Peak Response = 25726212 Manual Peak Response = 22007582 M4
M4 = Poor automated baseline construction.

Compound #47: 1262-2





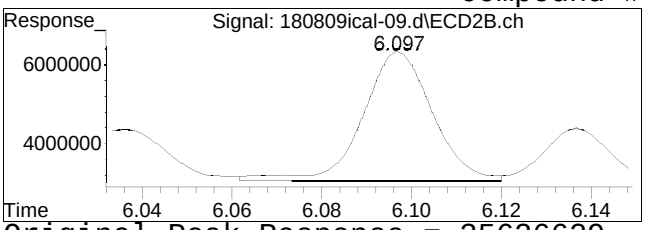
Original Peak Response = 24136876 Manual Peak Response = 21631654 M4
M4 = Poor automated baseline construction.

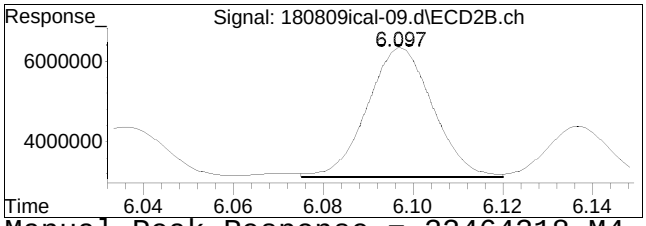
Manual Integration Report

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-09.d
Date Inj'd : 8/9/2018 10:55 am
Sample : il13262,42e,,8734

QMethod : P16_pcb_08_09i_18_ugL_IC
Operator : pest16:jw
Instrument : PEST16
Quant Date : 8/15/2018 12:09 pm

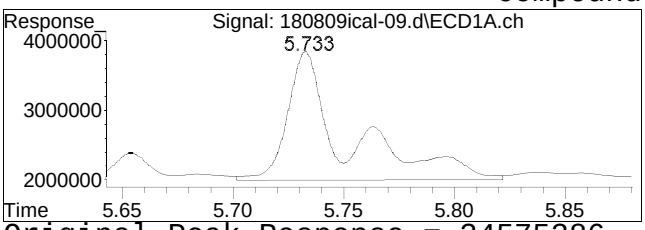
Compound #98: 1262-2 #2

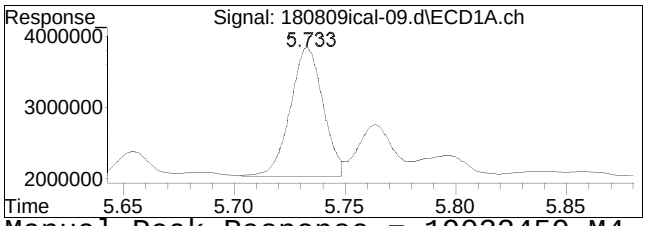




Original Peak Response = 35626629 Manual Peak Response = 32464318 M4
M4 = Poor automated baseline construction.

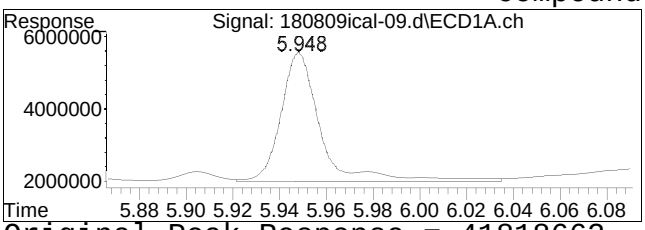
Compound #48: 1262-3

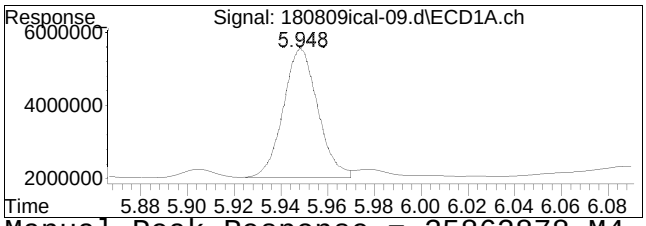




Original Peak Response = 34575386 Manual Peak Response = 19032459 M4
M4 = Poor automated baseline construction.

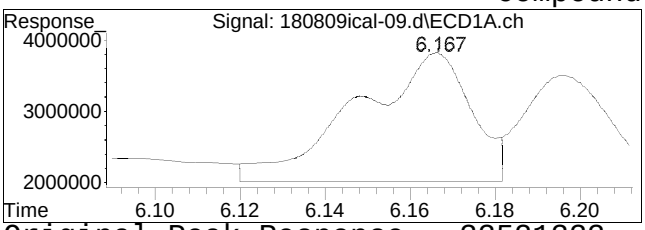
Compound #49: 1262-4

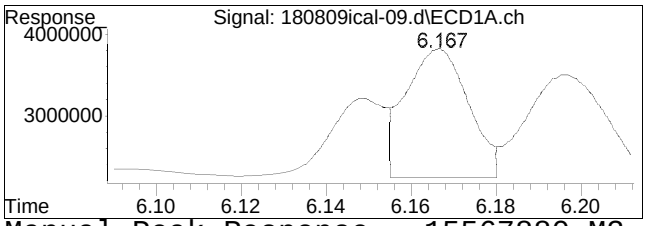




Original Peak Response = 41818662 Manual Peak Response = 35862878 M4
M4 = Poor automated baseline construction.

Compound #50: 1262-5





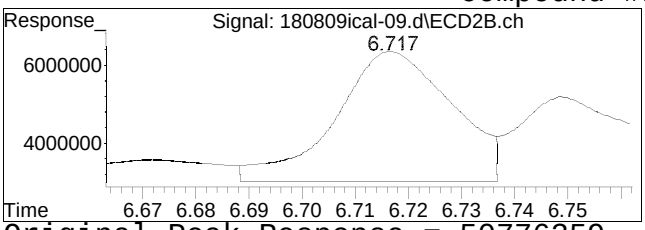
Original Peak Response = 33521333 Manual Peak Response = 15567880 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

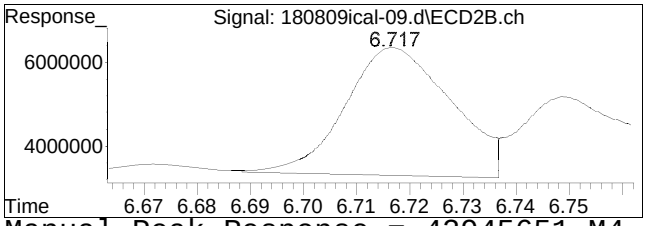
Manual Integration Report

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-09.d
Date Inj'd : 8/9/2018 10:55 am
Sample : il13262,42e,,8734

QMethod : P16_pcb_08_09i_18_ugL_IC
Operator : pest16:jw
Instrument : PEST16
Quant Date : 8/15/2018 12:09 pm

Compound #101: 1262-5 #2





Original Peak Response = 50776359 Manual Peak Response = 42945651 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-10.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 11:08 am
Operator : pest16:jw
Sample : il23262,42e,,8735
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 12:10:25 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:55:51 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	2.269	2.376	566.9E6	1136.1E6	250.000	250.000
	System Monitoring Compounds						
2) s	2,4,5,6-T...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
3) s	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-10.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 11:08 am
Operator : pest16:jw
Sample : il23262,42e,,8735
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 12:10:25 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:55:51 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-10.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 11:08 am
Operator : pest16:jw
Sample : il23262,42e,,8735
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 12:10:25 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:55:51 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1248-1					0.000	0.000
41) l5	1232-1	3.034	3.431	25796439	56587220	548.842	564.872
42) l5	1232-2	3.299	3.770	27059852	56795326	561.736	566.238
43) l5	1232-3	3.668	4.167	40798055	78191058	492.500M4	478.367M1
44) l5	1232-4	4.109	4.664	22981617	35028299	545.160M1	612.136
45) l5	1232-5	4.449	4.962	14164467	27407724	580.505	637.323
Sum	1232-1			130.8E6	254.0E6	2728.744	2858.936
Average	1232-1					545.749	571.787
46) l8	1262-1	5.268	5.777	72431907	97628017	521.187	527.743
47) l8	1262-2	5.555	6.099	95844819	137.1E6	522.264	525.206
48) l8	1262-3	5.734	6.309	84427313	124.7E6	512.349	514.880
49) l8	1262-4	5.949	6.472	158.5E6	233.8E6	506.442M3	506.986
50) l8	1262-5	6.168	6.720	70123708	164.0E6	532.815	518.190
Sum	1262-1			481.4E6	757.2E6	2595.056	2593.005
Average	1262-1					519.011	518.601

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			481.4E6	757.2E6	2595.056	2593.005
Average	1262-1					519.011	518.601

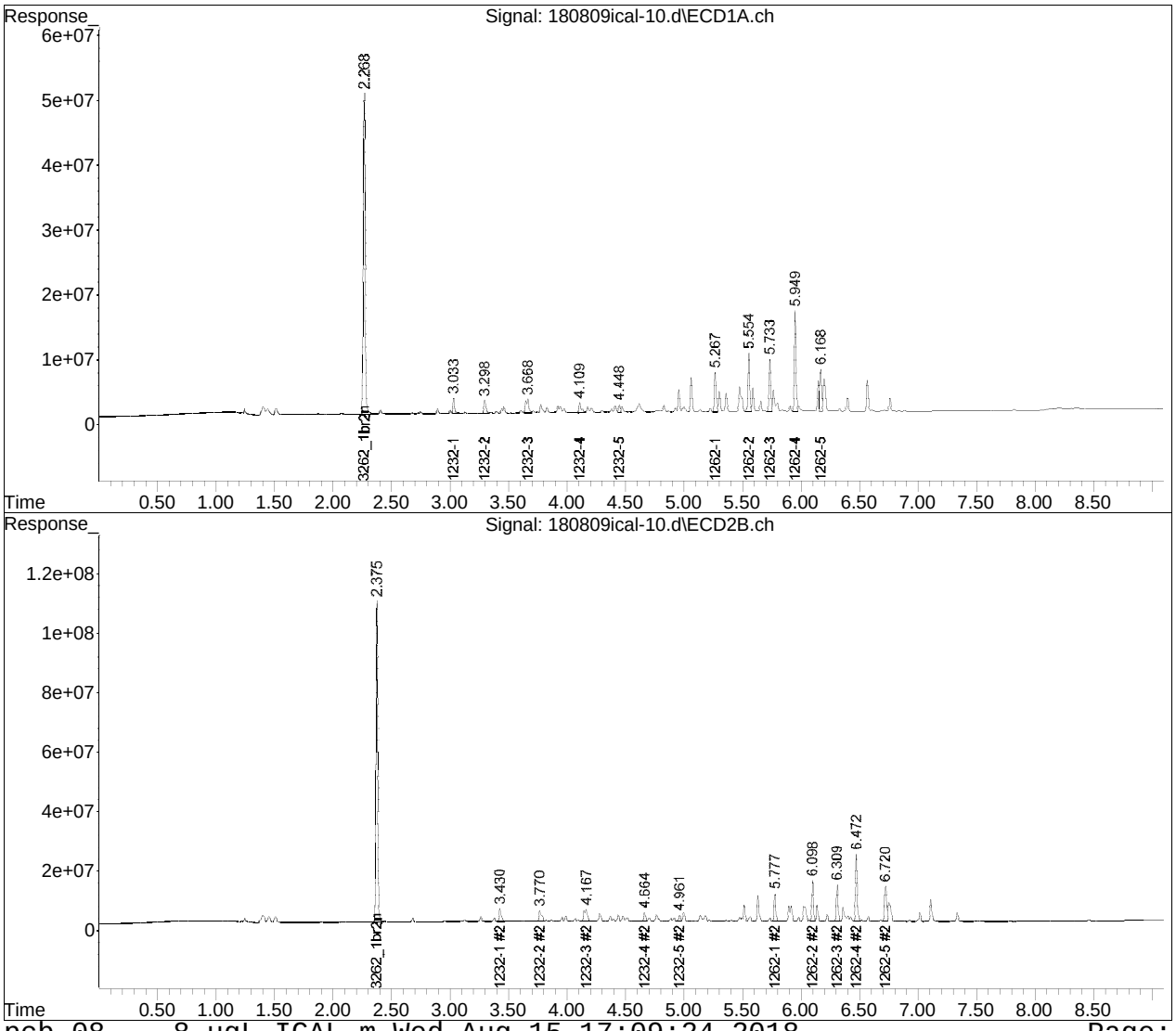
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-10.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 11:08 am
Operator : pest16:jw
Sample : il23262,42e,,8735
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 12:10:25 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:55:51 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

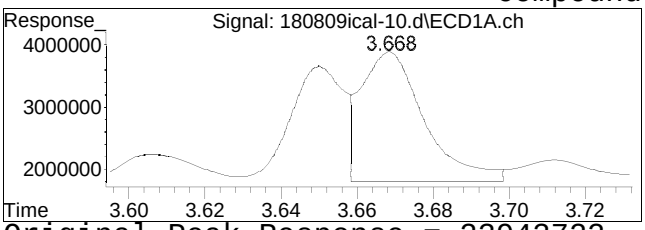


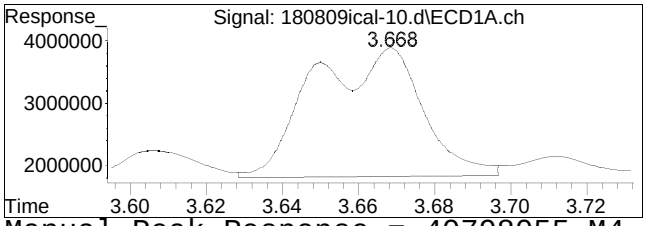
Manual Integration Report

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-10.d
Date Inj'd : 8/9/2018 11:08 am
Sample : il23262,42e,,8735

QMethod : P16_pcb_08_09i_18_ugL_IC
Operator : pest16:jw
Instrument : PEST16
Quant Date : 8/15/2018 11:56 am

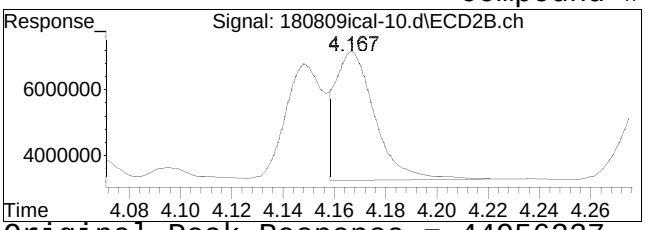
Compound #43: 1232-3

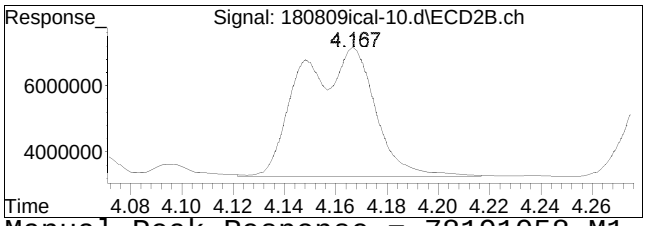




Original Peak Response = 23943722 Manual Peak Response = 40798055 M4
M4 = Poor automated baseline construction.

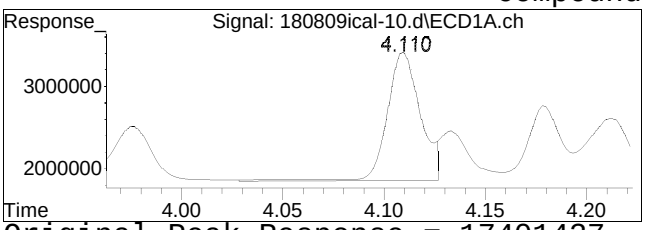
Compound #94: 1232-3 #2

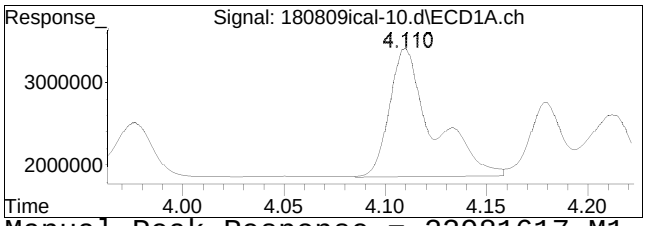




Original Peak Response = 44956237 Manual Peak Response = 78191058 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

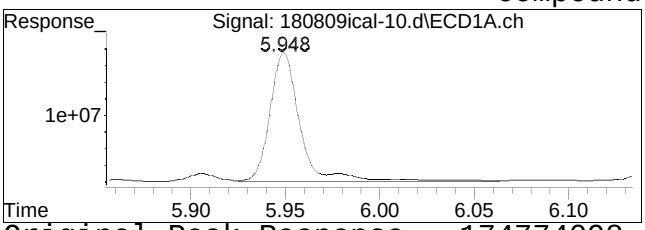
Compound #44: 1232-4

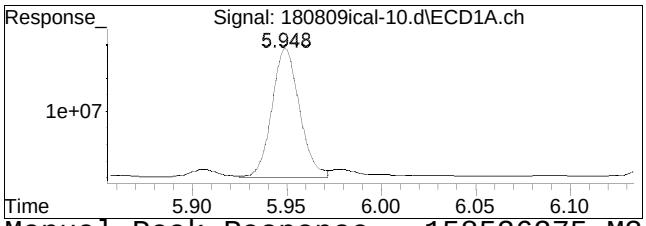




Original Peak Response = 17401437 Manual Peak Response = 22981617 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Compound #49: 1262-4





Original Peak Response = 174774098 Manual Peak Response = 158526275 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-11.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 11:21 am
Operator : pest16:jw
Sample : il33262,42e,,8736
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:55:45 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:54:03 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	2.267	2.376	560.1E6	1115.8E6	250.000M4	250.000
	System Monitoring Compounds						
2) s	2,4,5,6-T...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
3) s	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-11.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 11:21 am
Operator : pest16:jw
Sample : il33262,42e,,8736
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:55:45 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:54:03 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-11.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 11:21 am
Operator : pest16:jw
Sample : il33262,42e,,8736
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:55:45 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:54:03 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1248-1					0.000	0.000
41) l5	1232-1	3.034	3.430	50822056	108.1E6	1130.005	1136.128
42) l5	1232-2	3.299	3.770	51925359	109.6E6	1125.171	1155.881
43) l5	1232-3	3.667	4.167	83624875	172.1E6	1029.237	1098.151M1
44) l5	1232-4	4.110	4.665	43206305	64029903	1050.477	1194.758
45) l5	1232-5	4.448	4.963	23845341	47303107	985.578M3	1166.591
Sum	1232-1			253.4E6	501.1E6	5320.468	5751.510
Average	1232-1					1064.094	1150.302
46) l8	1262-1	5.269	5.778	143.0E6	193.8E6	1055.750	1090.930
47) l8	1262-2	5.556	6.099	190.0E6	272.7E6	1065.288	1086.745
48) l8	1262-3	5.735	6.310	169.6E6	250.6E6	1056.338	1072.776
49) l8	1262-4	5.950	6.473	318.5E6	473.9E6	1040.119M3	1063.077
50) l8	1262-5	6.168	6.721	128.1E6	324.7E6	980.185M3	1060.039
Sum	1262-1			949.2E6	1515.7E6	5197.680	5373.566
Average	1262-1					1039.536	1074.713

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			949.2E6	1515.7E6	5197.680	5373.566
Average	1262-1					1039.536	1074.713

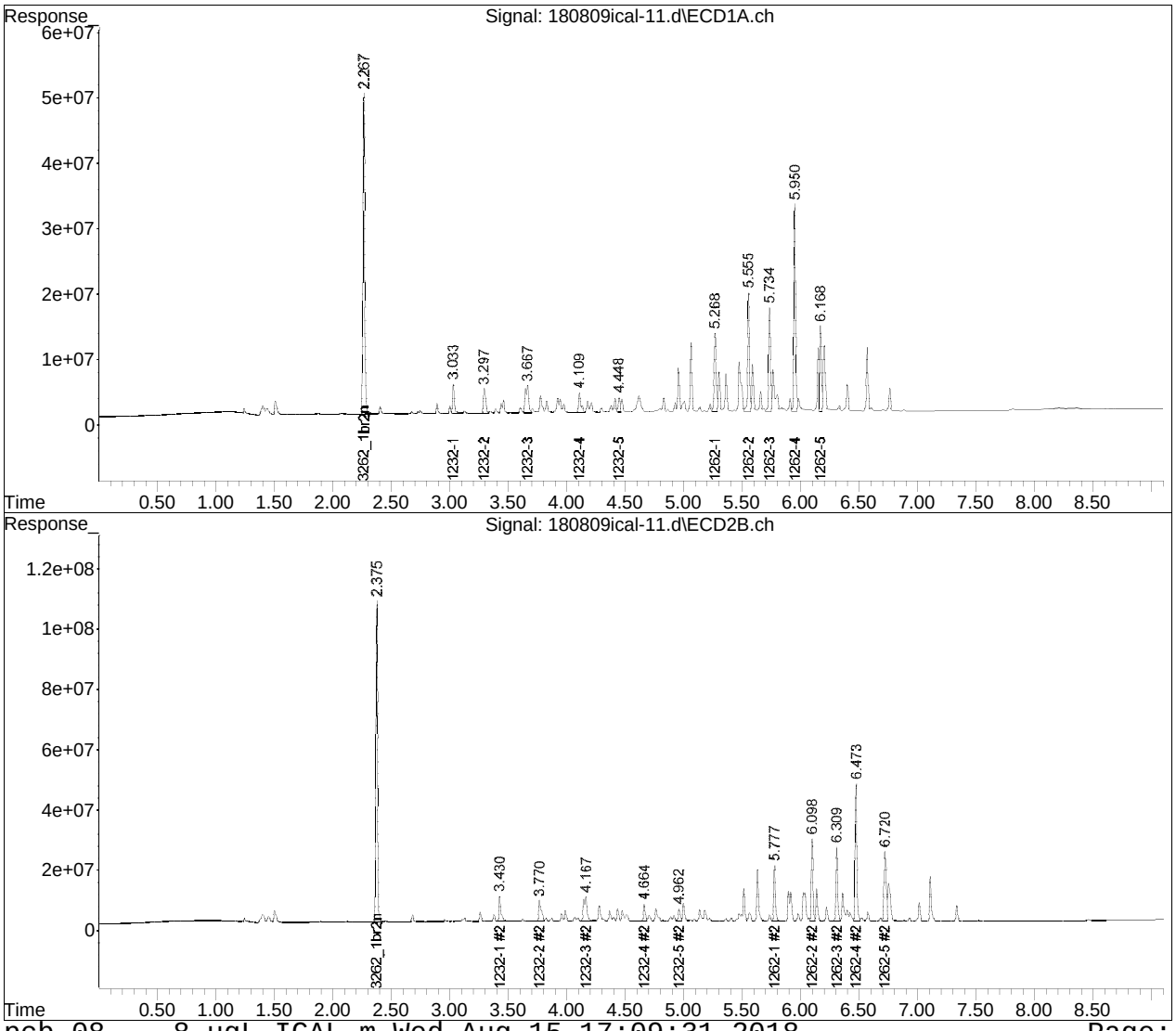
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-11.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 11:21 am
Operator : pest16:jw
Sample : il33262,42e,,8736
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:55:45 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:54:03 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

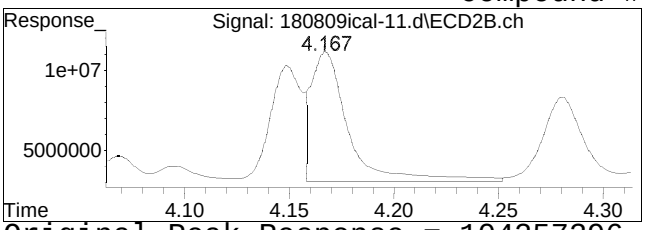


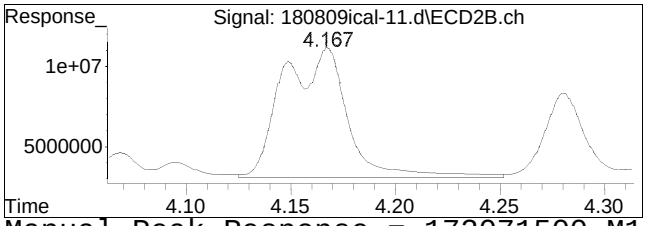
Manual Integration Report

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-11.d
Date Inj'd : 8/9/2018 11:21 am
Sample : il33262,42e,,8736

QMethod : P16_pcb_08_09i_18_ugL_IC
Operator : pest16:jw
Instrument : PEST16
Quant Date : 8/15/2018 11:54 am

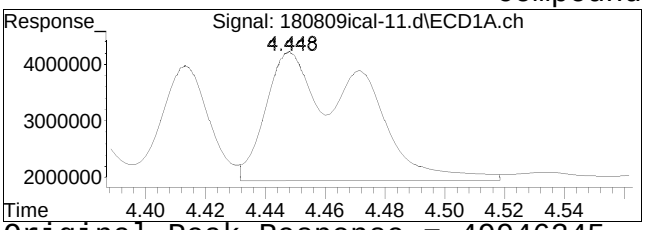
Compound #94: 1232-3 #2

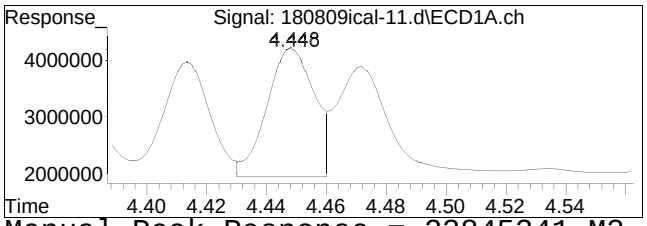




Original Peak Response = 104257396 Manual Peak Response = 172071500 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

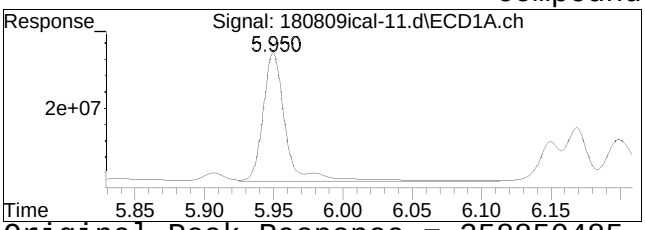
Compound #45: 1232-5

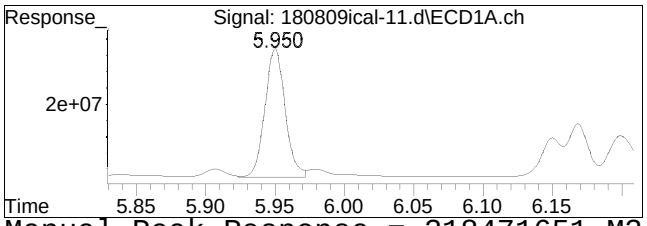




Original Peak Response = 49946345 Manual Peak Response = 23845341 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

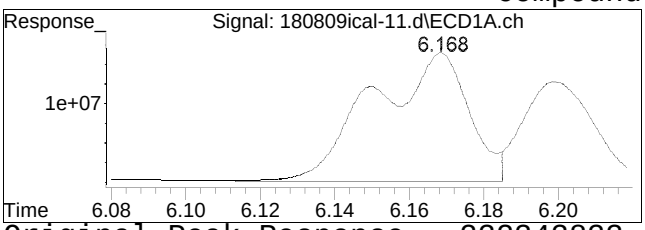
Compound #49: 1262-4

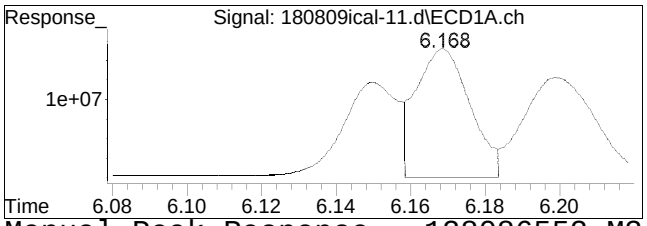




Original Peak Response = 358850485 Manual Peak Response = 318471651 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Compound #50: 1262-5





Original Peak Response = 232343833 Manual Peak Response = 128086552 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-12.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 11:34 am
Operator : pest16:jw
Sample : il43262,42e,,8737
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:52:36 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:48:47 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	2.267	2.375	570.5E6	1174.9E6	250.000M4	250.000
	System Monitoring Compounds						
2) s	2,4,5,6-T...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
3) s	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-12.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 11:34 am
Operator : pest16:jw
Sample : il43262,42e,,8737
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:52:36 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:48:47 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Sum 1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1248-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-12.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 11:34 am
Operator : pest16:jw
Sample : il43262,42e,,8737
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:52:36 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:48:47 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1248-1					0.000	0.000
41) l5	1232-1	3.033	3.430	121.7E6	262.6E6	NoCal	NoCal
42) l5	1232-2	3.298	3.770	124.1E6	261.5E6	NoCal	NoCal
43) l5	1232-3	3.667	4.166	208.4E6	409.2E6	NoCal M1	NoCal M1
44) l5	1232-4	4.109	4.664	109.7E6	143.6E6	NoCal M1	NoCal
45) l5	1232-5	4.449	4.962	62645862	106.3E6	NoCal	NoCal
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	5.268	5.778	359.9E6	477.8E6	NoCal	NoCal
47) l8	1262-2	5.556	6.099	479.4E6	681.9E6	NoCal	NoCal
48) l8	1262-3	5.734	6.310	428.1E6	630.1E6	NoCal	NoCal
49) l8	1262-4	5.950	6.473	823.8E6	1207.2E6	NoCal M3	NoCal
50) l8	1262-5	6.168	6.721	352.1E6	821.9E6	NoCal M3	NoCal
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

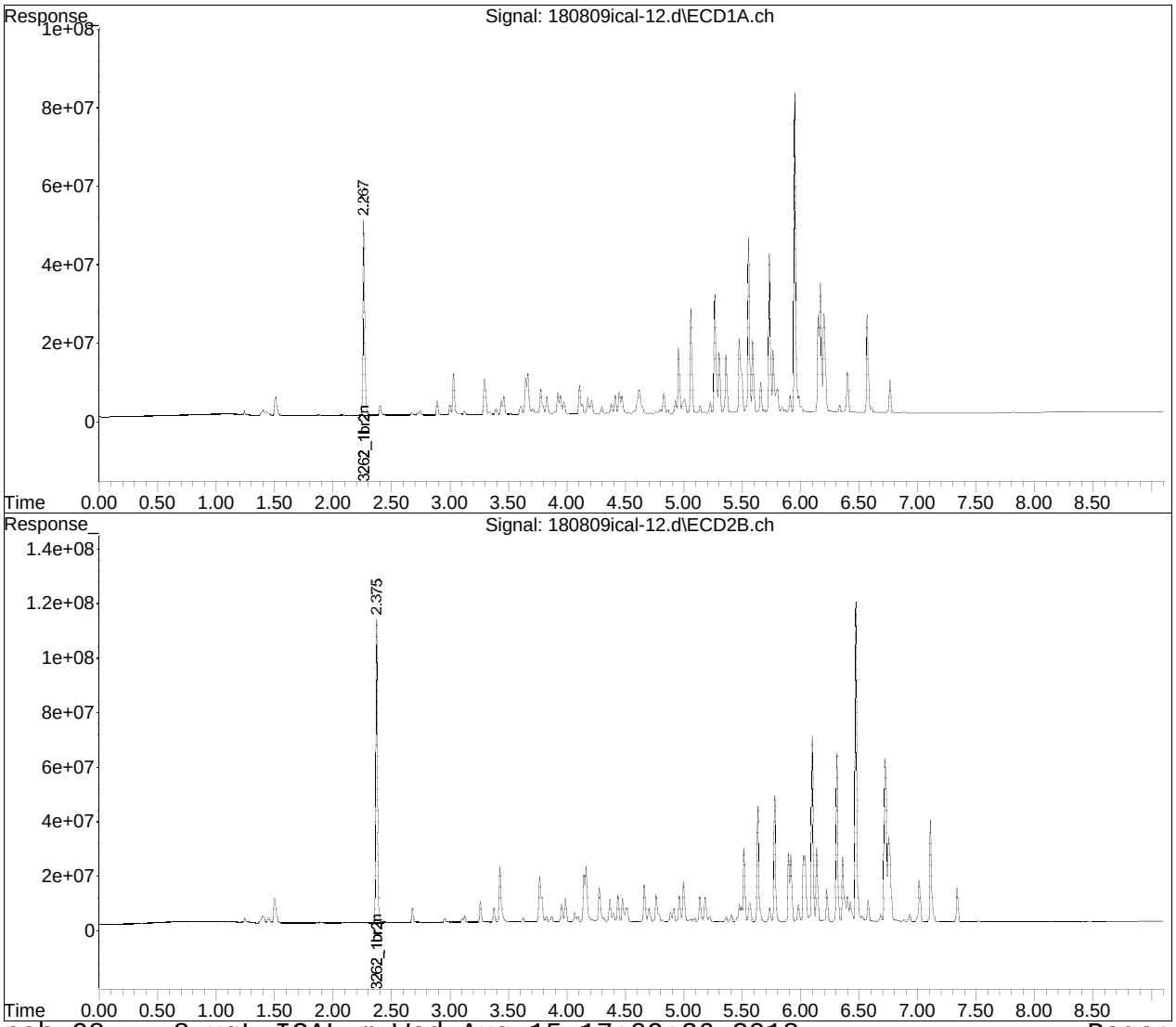
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-12.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 11:34 am
Operator : pest16:jw
Sample : il43262,42e,,8737
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:52:36 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:48:47 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

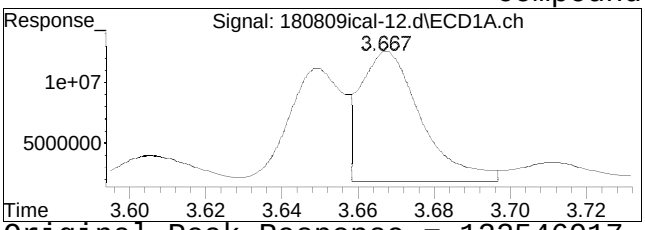


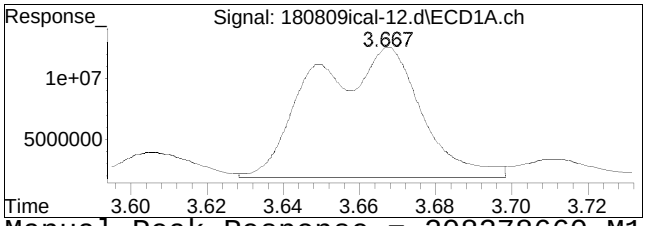
Manual Integration Report

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-12.d
Date Inj'd : 8/9/2018 11:34 am
Sample : il43262,42e,,8737

QMethod : P16_pcb_08_09i_18_ugL_IC
Operator : pest16:jw
Instrument : PEST16
Quant Date : 8/15/2018 11:48 am

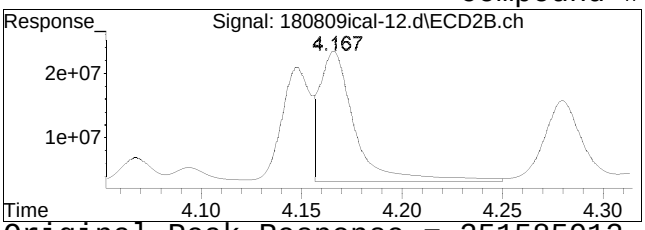
Compound #43: 1232-3

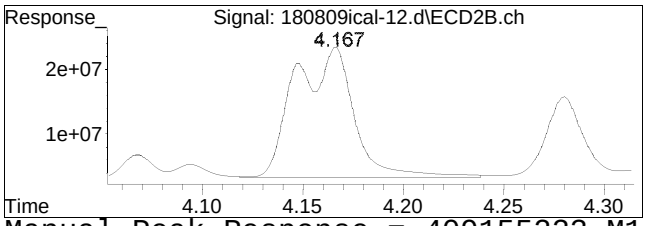




Original Peak Response = 122546917 Manual Peak Response = 208378660 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

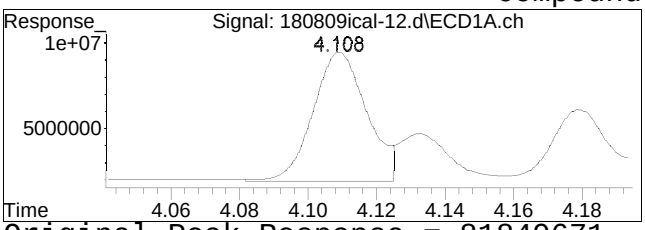
Compound #94: 1232-3 #2

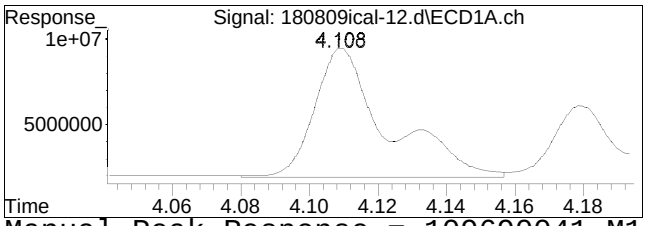




Original Peak Response = 251585912 Manual Peak Response = 409155223 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

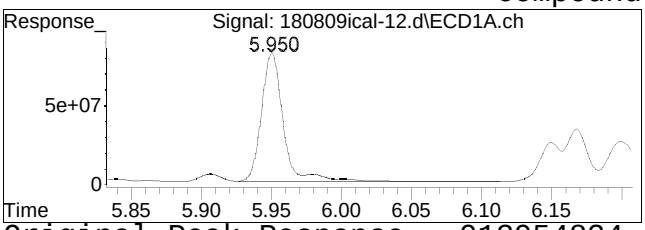
Compound #44: 1232-4

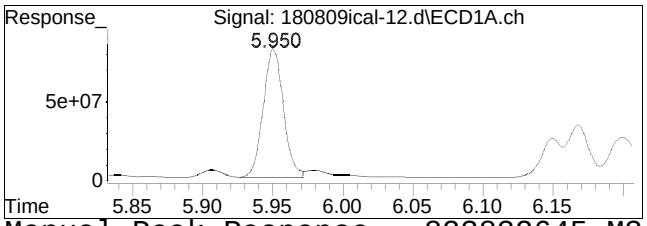




Original Peak Response = 81849671 Manual Peak Response = 109690041 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Compound #49: 1262-4





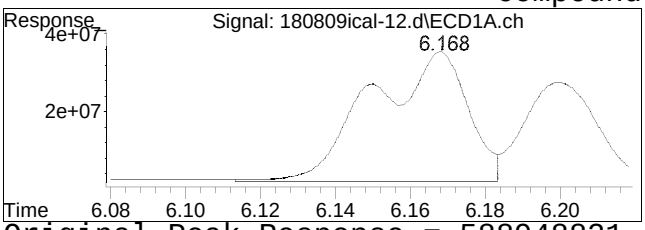
Original Peak Response = 913954834 Manual Peak Response = 823832645 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

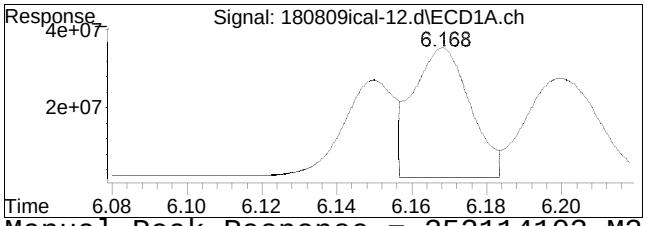
Manual Integration Report

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-12.d
Date Inj'd : 8/9/2018 11:34 am
Sample : il43262,42e,,8737

QMethod : P16_pcb_08_09i_18_ugL_IC
Operator : pest16:jw
Instrument : PEST16
Quant Date : 8/15/2018 11:48 am

Compound #50: 1262-5





Original Peak Response = 588948821 Manual Peak Response = 352114103 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-13.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 11:46 am
Operator : pest16:jw
Sample : il53262,42e,,8738
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:52:09 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:50:48 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	2.266	2.374	569.2E6	1157.2E6	250.000M4	250.000
	System Monitoring Compounds						
2) s	2,4,5,6-T...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
3) s	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-13.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 11:46 am
Operator : pest16:jw
Sample : il53262,42e,,8738
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:52:09 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:50:48 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-13.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 11:46 am
Operator : pest16:jw
Sample : il53262,42e,,8738
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:52:09 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:50:48 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1248-1					0.000	0.000
41) l5	1232-1	3.033	3.430	210.6E6	458.4E6	4366.358	4431.698
42) l5	1232-2	3.298	3.770	216.3E6	453.6E6	4396.591	4402.366
43) l5	1232-3	3.668	4.167	377.2E6	737.3E6	4566.948M1	4574.044M4
44) l5	1232-4	4.109	4.665	189.9E6	264.0E6	4367.278M1	4665.204
45) l5	1232-5	4.449	4.963	111.9E6	192.6E6	4506.976	4598.525
Sum	1232-1			1106.0E6	2105.9E6	22204.151	22671.836
Average	1232-1					4440.830	4534.367
46) l8	1262-1	5.268	5.779	631.3E6	842.6E6	4424.988	4475.993
47) l8	1262-2	5.556	6.100	835.5E6	1191.2E6	4396.148	4434.504
48) l8	1262-3	5.734	6.311	750.2E6	1110.2E6	4420.669	4472.511
49) l8	1262-4	5.950	6.474	1439.7E6	2119.4E6	4408.888M3	4456.423
50) l8	1262-5	6.169	6.723	606.3E6	1449.1E6	4343.612	4475.054
Sum	1262-1			4262.9E6	6712.5E6	21994.306	22314.487
Average	1262-1					4398.861	4462.897

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			4262.9E6	6712.5E6	21994.306	22314.487
Average	1262-1					4398.861	4462.897

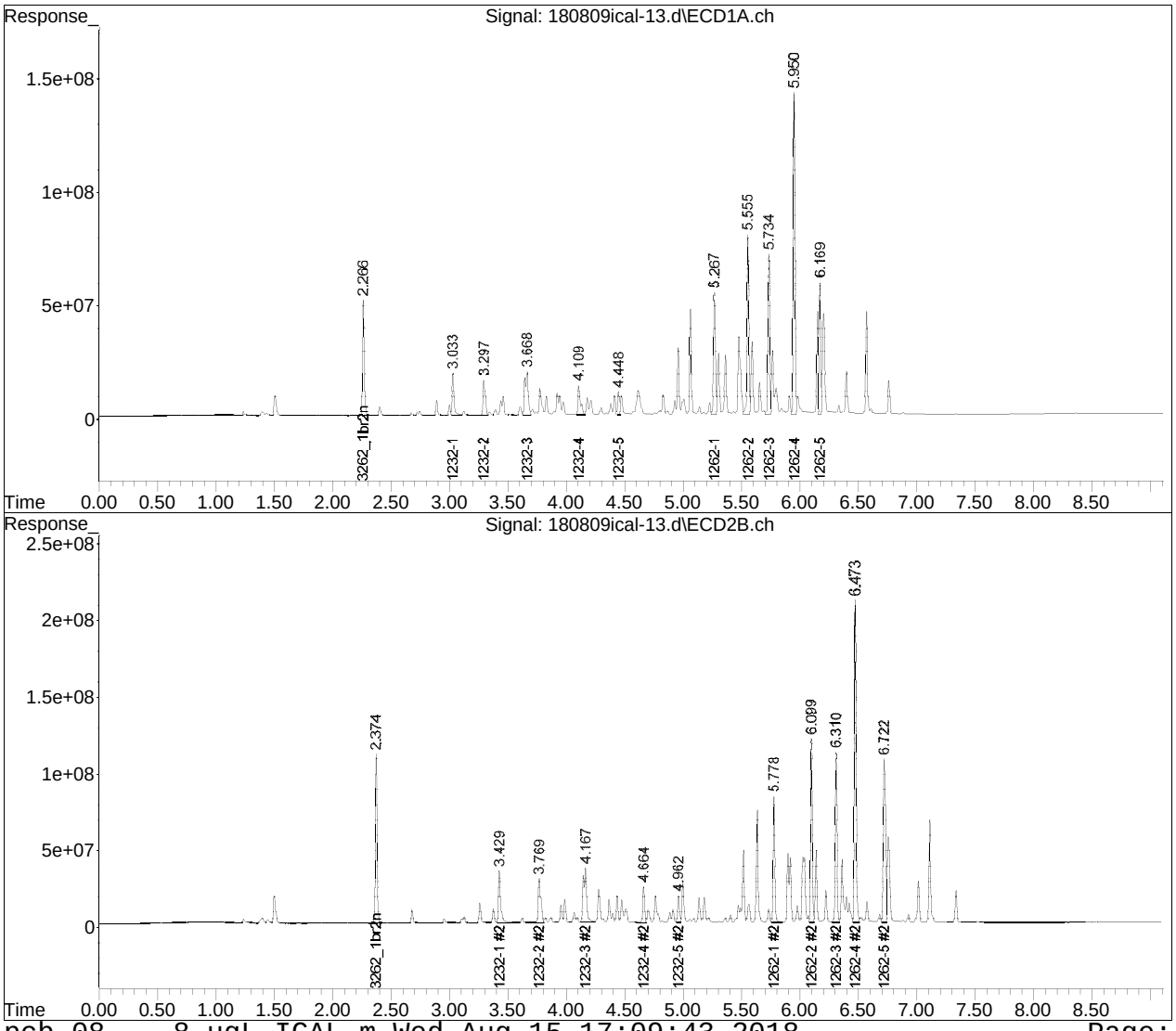
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-13.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 11:46 am
Operator : pest16:jw
Sample : il53262,42e,,8738
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:52:09 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:50:48 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

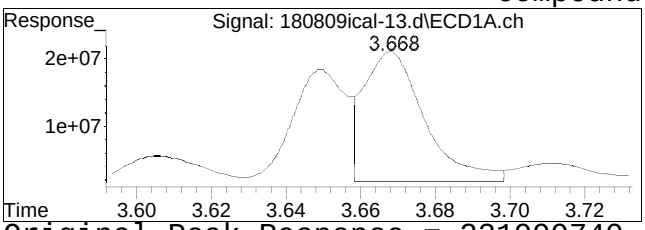


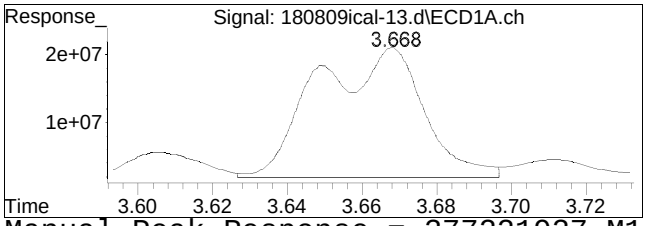
Manual Integration Report

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-13.d
Date Inj'd : 8/9/2018 11:46 am
Sample : il53262,42e,,8738

QMethod : P16_pcb_08_09i_18_ugL_IC
Operator : pest16:jw
Instrument : PEST16
Quant Date : 8/15/2018 11:50 am

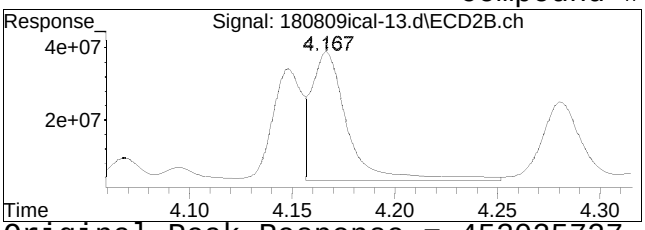
Compound #43: 1232-3

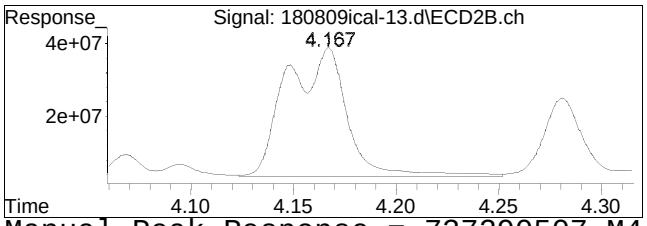




Original Peak Response = 221999740 Manual Peak Response = 377221927 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

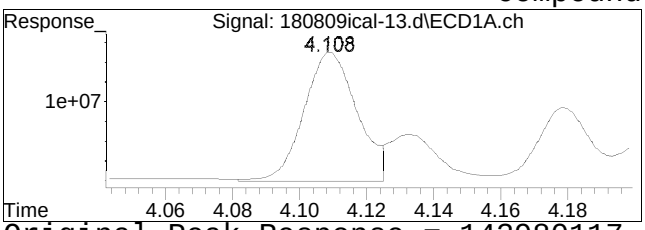
Compound #94: 1232-3 #2

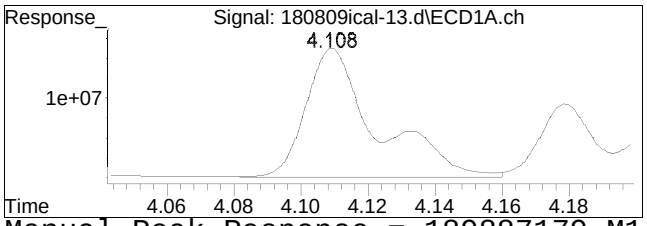




Original Peak Response = 453025727 Manual Peak Response = 737290507 M4
M4 = Poor automated baseline construction.

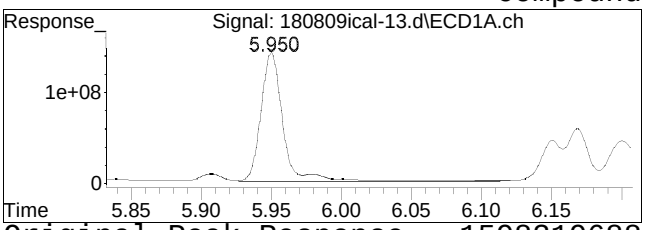
Compound #44: 1232-4

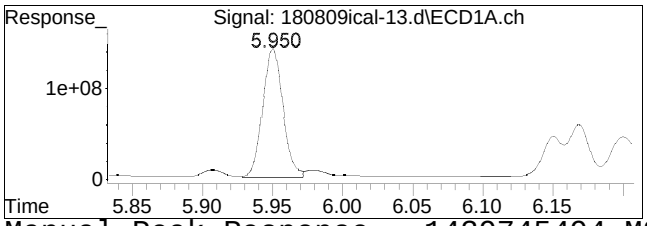




Original Peak Response = 143980117 Manual Peak Response = 189887179 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Compound #49: 1262-4





Original Peak Response = 1598319688 Manual Peak Response = 1439745494 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-14.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 11:59 am
Operator : pest16:jw
Sample : il63262,42e,,8739
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:53:57 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:52:43 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	2.265	2.374	550.5E6	1100.2E6	250.000M4	250.000
	System Monitoring Compounds						
2) s	2,4,5,6-T...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
3) s	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-14.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 11:59 am
Operator : pest16:jw
Sample : il63262,42e,,8739
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:53:57 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:52:43 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Sum 1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1248-1			0	0	N.D.	N.D.

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-14.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 11:59 am
Operator : pest16:jw
Sample : il63262,42e,,8739
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:53:57 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:52:43 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1248-1					0.000	0.000
41) l5	1232-1	3.033	3.430	448.8E6	959.6E6	10234.189	10345.050
42) l5	1232-2	3.298	3.770	463.1E6	962.7E6	10319.622	10452.680
43) l5	1232-3	3.668	4.166	861.6E6	1700.7E6	11234.669	11590.742M1
44) l5	1232-4	4.109	4.665	422.0E6	545.3E6	10675.487M1	10485.242
45) l5	1232-5	4.449	4.963	255.1E6	435.0E6	11132.352	11379.694
Sum	1232-1			2450.6E6	4603.3E6	53596.320	54253.408
Average	1232-1					10719.264	10850.682
46) l8	1262-1	5.268	5.779	1382.3E6	1863.3E6	10591.587	10986.673
47) l8	1262-2	5.557	6.101	1793.5E6	2604.0E6	10347.912	10806.587
48) l8	1262-3	5.736	6.312	1630.1E6	2438.8E6	10506.179	10908.788
49) l8	1262-4	5.951	6.475	3063.0E6	4635.9E6	10271.126M3	10842.056
50) l8	1262-5	6.170	6.724	1321.1E6	3227.1E6	10437.195	11062.915
Sum	1262-1			9190.0E6	14769.1E6	52153.999	54607.019
Average	1262-1					10430.800	10921.404

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			9190.0E6	14769.1E6	52153.999	54607.019
Average	1262-1					10430.800	10921.404

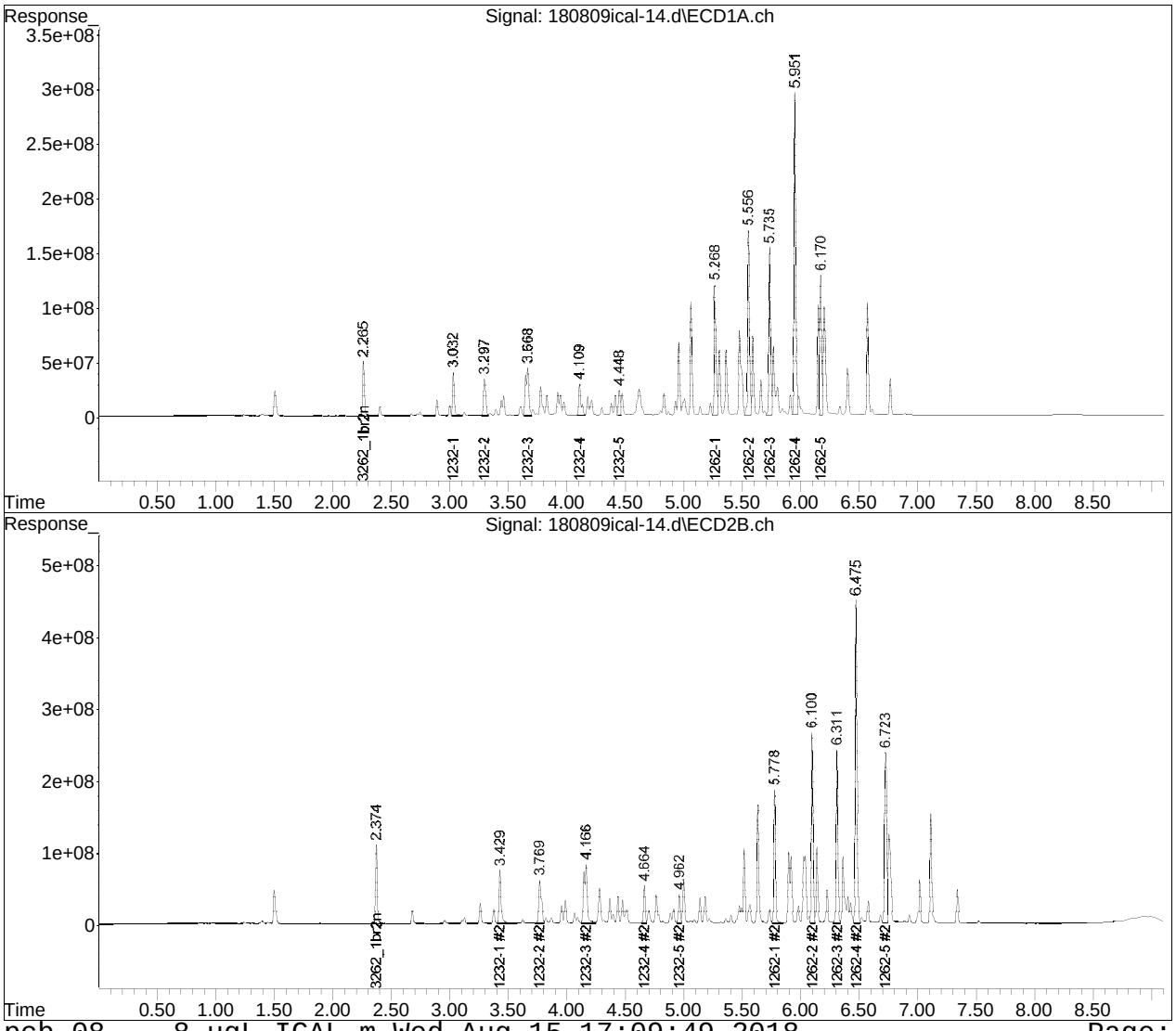
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-14.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 11:59 am
Operator : pest16:jw
Sample : il63262,42e,,8739
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:53:57 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:52:43 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

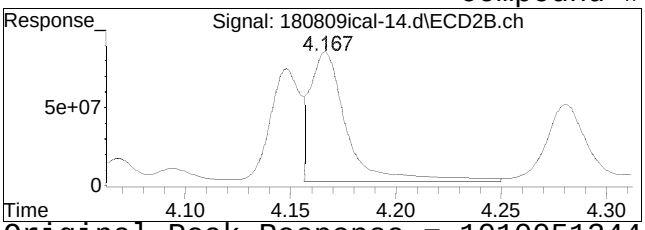


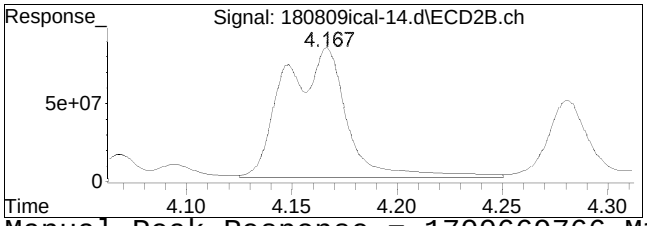
Manual Integration Report

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-14.d
Date Inj'd : 8/9/2018 11:59 am
Sample : il63262,42e,,8739

QMethod : P16_pcb_08_09i_18_ugL_IC
Operator : pest16:jw
Instrument : PEST16
Quant Date : 8/15/2018 11:52 am

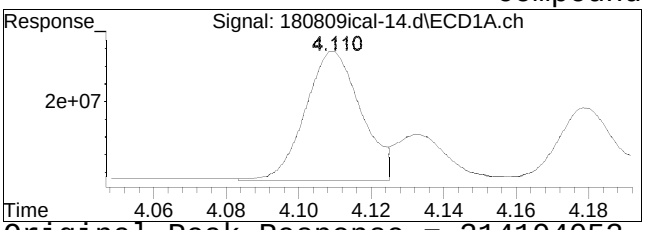
Compound #94: 1232-3 #2

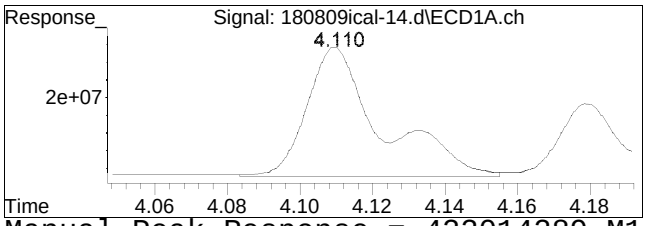




Original Peak Response = 1010051344 Manual Peak Response = 1700669766 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

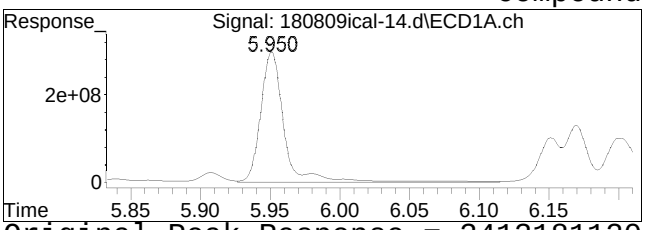
Compound #44: 1232-4

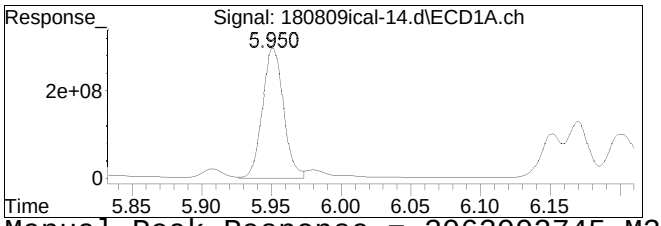




Original Peak Response = 314194053 Manual Peak Response = 422014289 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Compound #49: 1262-4





Original Peak Response = 3413181120 Manual Peak Response = 3063002745 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-15.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 12:12 pm
Operator : pest16:jw
Sample : il11248,42e,,8740
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 13:13:14 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 13:10:42 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	2.265	2.374	564.7E6	1126.7E6	250.000	250.000
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-T...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	500.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
3) s	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	500.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-15.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 12:12 pm
Operator : pest16:jw
Sample : il11248,42e,,8740
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 13:13:14 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 13:10:42 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	3.648	4.147	4466066	8365297	103.954M4	100.484M4
36) l7	1248-2	3.921	4.436	8129881	14161741	111.007M4	114.736M4
37) l7	1248-3	4.108	4.663	11743608	17639613	104.047M1	114.871M4

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-15.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 12:12 pm
Operator : pest16:jw
Sample : il11248,42e,,8740
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 13:13:14 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 13:10:42 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
38)	l7 1248-4	4.446	4.960	9977723	18114122	120.652M4	131.354M4
39)	l7 1248-5	4.469	4.998	6280724	18773638	89.977M4	120.733M4
#							
	Sum 1248-1			40598002	77054411	N.D.	N.D.
	Average 1248-1					105.927	116.436
41)	l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42)	l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43)	l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44)	l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1232-1			0	0	N.D.	N.D.
	Average 1232-1					0.000	0.000
45)	l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
46)	l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
47)	l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
48)	l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
49)	l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1262-1			0	0	N.D.	N.D.
	Average 1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

	Sum 1262-1			0	0	N.D.	N.D.
	Average 1262-1					0.000	0.000

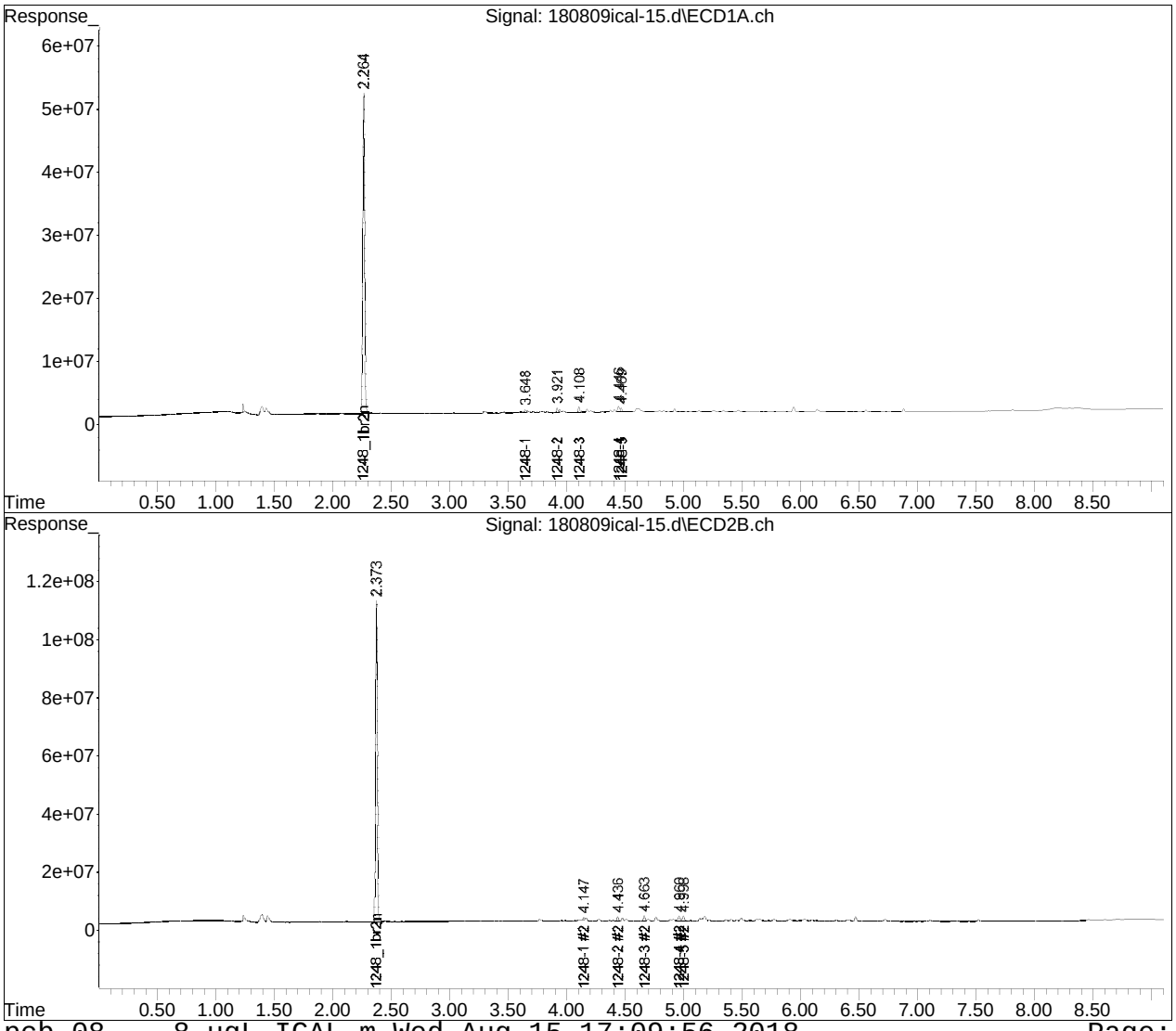
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-15.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 12:12 pm
Operator : pest16:jw
Sample : il11248,42e,,8740
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 13:13:14 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 13:10:42 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

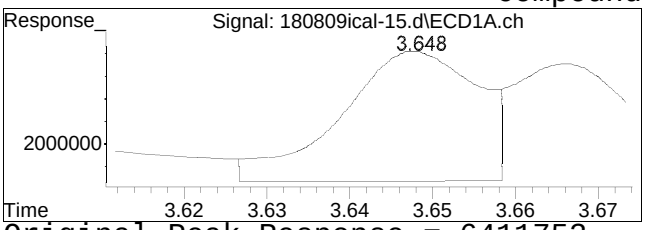


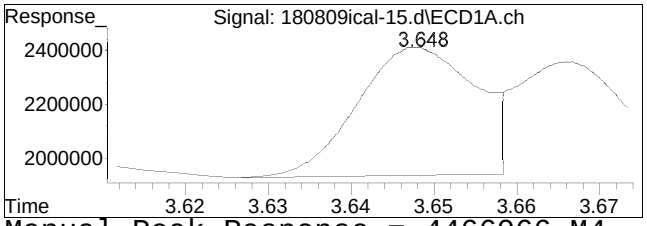
Manual Integration Report

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-15.d
Date Inj'd : 8/9/2018 12:12 pm
Sample : il11248,42e,,8740

QMethod : P16_pcb_08_09i_18_ugL_IC
Operator : pest16:jw
Instrument : PEST16
Quant Date : 8/15/2018 1:10 pm

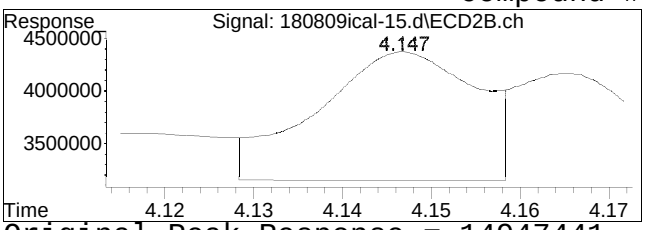
Compound #35: 1248-1

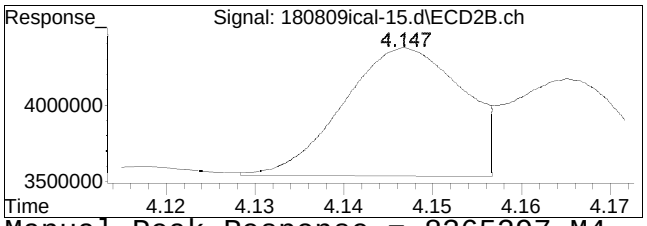




Original Peak Response = 6411753 Manual Peak Response = 4466066 M4
M4 = Poor automated baseline construction.

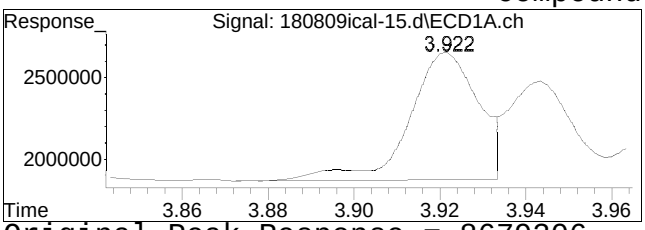
Compound #85: 1248-1 #2

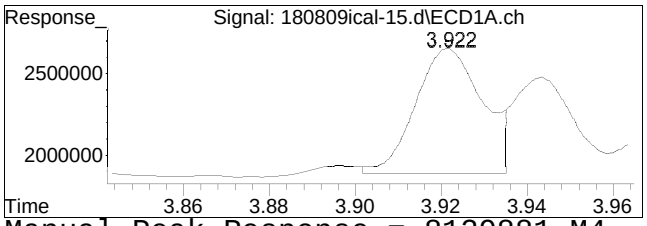




Original Peak Response = 14947441 Manual Peak Response = 8365297 M4
M4 = Poor automated baseline construction.

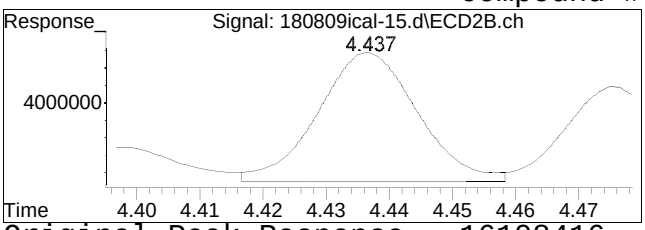
Compound #36: 1248-2

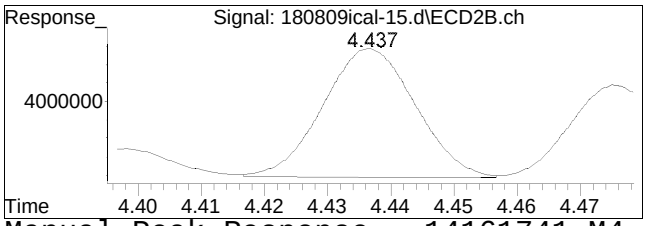




Original Peak Response = 8679306 Manual Peak Response = 8129881 M4
M4 = Poor automated baseline construction.

Compound #86: 1248-2 #2





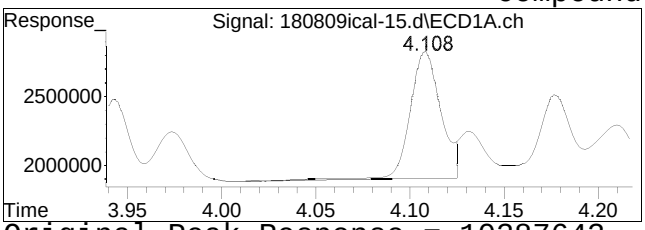
Original Peak Response = 16108416 Manual Peak Response = 14161741 M4
M4 = Poor automated baseline construction.

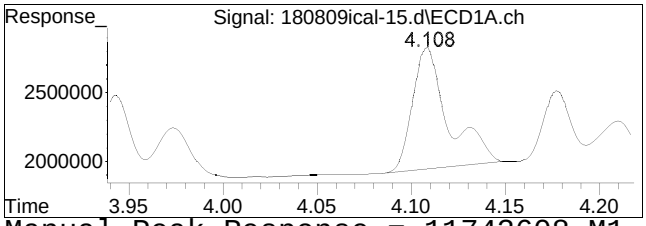
Manual Integration Report

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-15.d
Date Inj'd : 8/9/2018 12:12 pm
Sample : il11248,42e,,8740

QMethod : P16_pcb_08_09i_18_ugL_IC
Operator : pest16:jw
Instrument : PEST16
Quant Date : 8/15/2018 1:10 pm

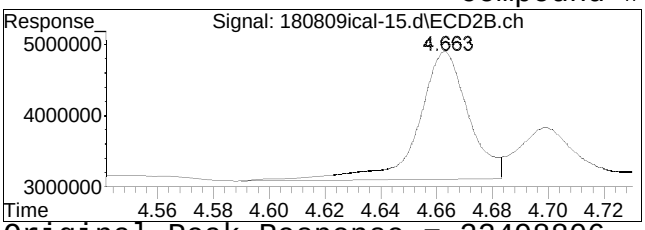
Compound #37: 1248-3

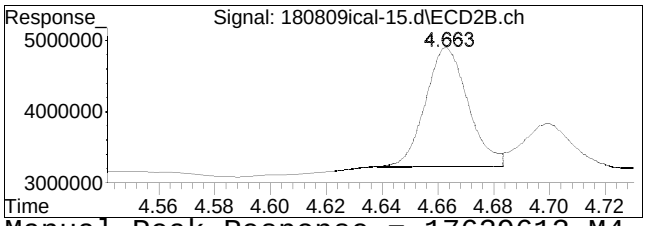




Original Peak Response = 10387643 Manual Peak Response = 11743608 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

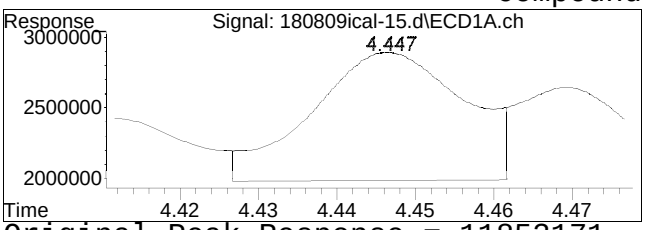
Compound #87: 1248-3 #2

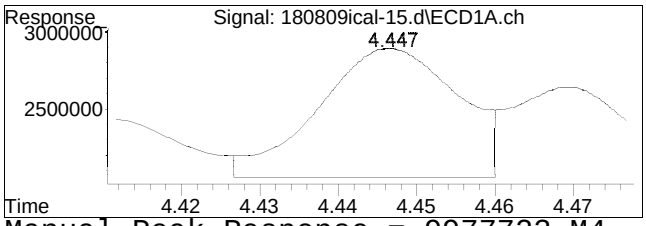




Original Peak Response = 22498806 Manual Peak Response = 17639613 M4
M4 = Poor automated baseline construction.

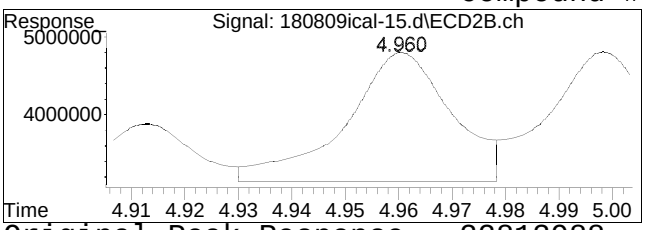
Compound #38: 1248-4

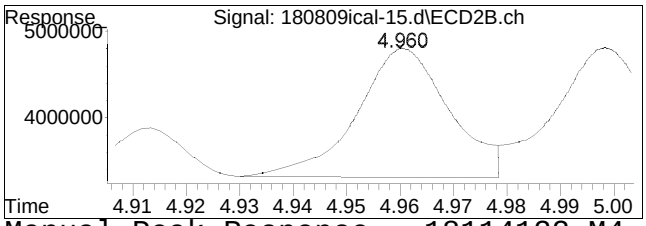




Original Peak Response = 11853171 Manual Peak Response = 9977723 M4
M4 = Poor automated baseline construction.

Compound #88: 1248-4 #2





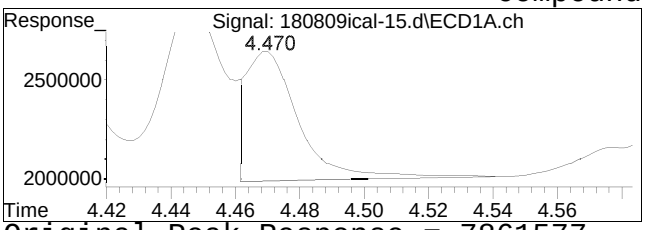
Original Peak Response = 22813988 Manual Peak Response = 18114122 M4
M4 = Poor automated baseline construction.

Manual Integration Report

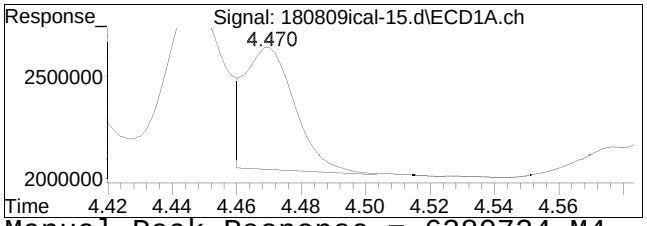
Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-15.d
Date Inj'd : 8/9/2018 12:12 pm
Sample : il11248,42e,,8740

QMethod : P16_pcb_08_09i_18_ugL_IC
Operator : pest16:jw
Instrument : PEST16
Quant Date : 8/15/2018 1:10 pm

Compound #39: 1248-5



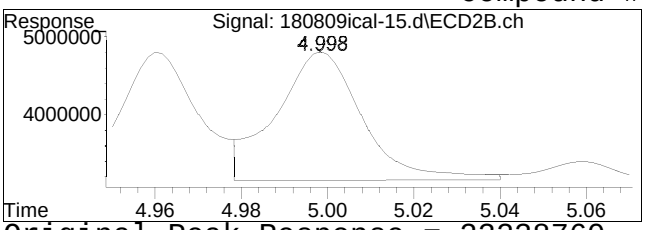
Original Peak Response = 7861577



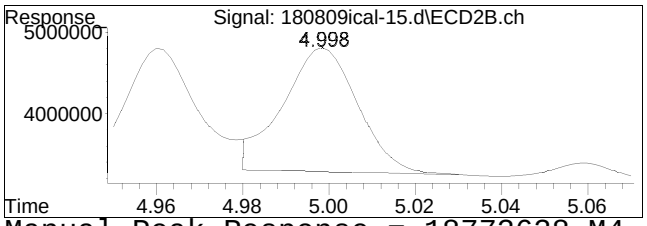
Manual Peak Response = 6280724 M4

M4 = Poor automated baseline construction.

Compound #89: 1248-5 #2



Original Peak Response = 23238760



Manual Peak Response = 18773638 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-16.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 12:25 pm
Operator : pest16:jw
Sample : il21248,42e,,8741
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 13:10:36 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 13:08:56 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	2.266	2.374	540.2E6	1076.3E6	250.000	250.000
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-T...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	500.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
3) s	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	500.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-16.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 12:25 pm
Operator : pest16:jw
Sample : il21248,42e,,8741
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 13:10:36 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 13:08:56 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	3.650	4.148	21552430	42239821	530.908	539.554
36) l7	1248-2	3.923	4.437	37642296	64345604	547.500	558.506
37) l7	1248-3	4.109	4.664	56719759	79803026	532.071m	556.274
38) l7	1248-4	4.449	4.962	40800309	71423299	519.838	553.867
39) l7	1248-5	4.472	5.001	34865249	79979164	527.982	548.986
Sum	1248-1			191.6E6	337.8E6	N.D.	N.D.

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-16.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 12:25 pm
Operator : pest16:jw
Sample : il21248,42e,,8741
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 13:10:36 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 13:08:56 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1248-1					531.660	551.437
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
45) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
46) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

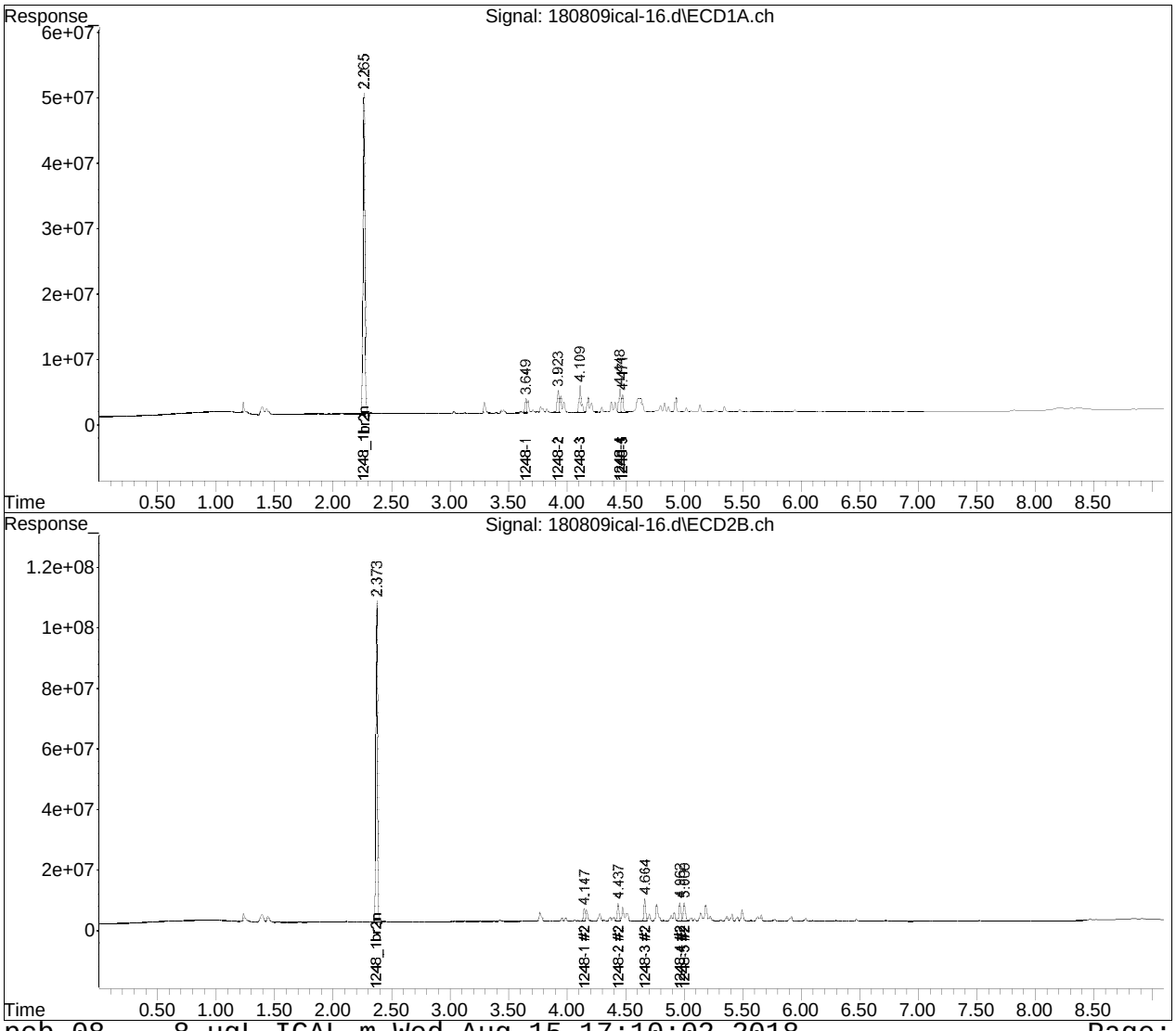
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-16.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 12:25 pm
Operator : pest16:jw
Sample : il21248,42e,,8741
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 13:10:36 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 13:08:56 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

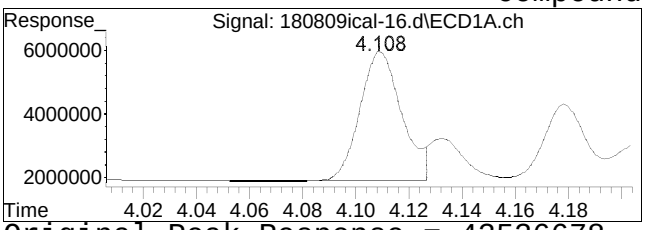


Manual Integration Report

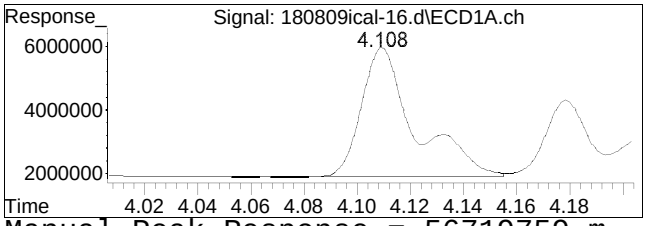
Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-16.d
Date Inj'd : 8/9/2018 12:25 pm
Sample : il21248,42e,,8741

QMethod : P16_pcb_08_09i_18_ugL_IC
Operator : pest16:jw
Instrument : PEST16
Quant Date : 8/15/2018 1:09 pm

Compound #37: 1248-3



Original Peak Response = 43536678



Manual Peak Response = 56719759 m

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-17.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 12:38 pm
Operator : pest16:jw
Sample : il31248,42e,,8742
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 13:08:48 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 13:06:36 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	2.267	2.375	525.8E6	1065.9E6	250.000	250.000
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-T...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	500.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
3) s	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	500.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-17.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 12:38 pm
Operator : pest16:jw
Sample : il31248,42e,,8742
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 13:08:48 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 13:06:36 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	3.650	4.149	40182860	80400448	1022.788M3	1050.054
36) l7	1248-2	3.924	4.438	65904810	119.4E6	979.932M3	1062.787
37) l7	1248-3	4.111	4.665	107.8E6	146.2E6	1053.247	1038.953
38) l7	1248-4	4.449	4.964	80596034	130.5E6	1074.771M2	1029.285
39) l7	1248-5	4.472	5.002	62059661	145.1E6	954.633M2	1007.353
Sum	1248-1			356.6E6	621.5E6	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-17.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 12:38 pm
Operator : pest16:jw
Sample : il31248,42e,,8742
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 13:08:48 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 13:06:36 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1248-1					1017.074	1037.686
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
45) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
46) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

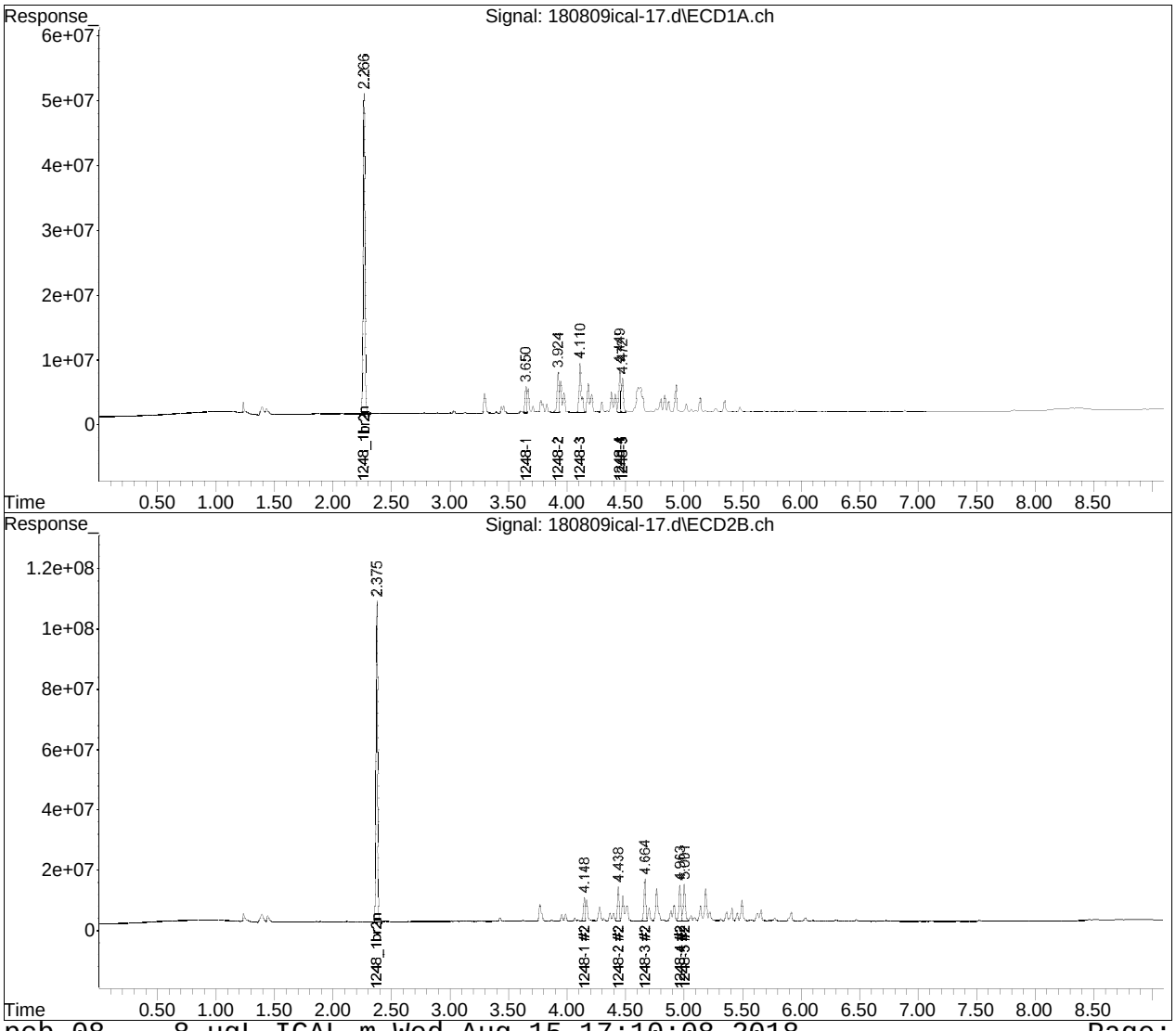
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-17.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 12:38 pm
Operator : pest16:jw
Sample : il31248,42e,,8742
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 13:08:48 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 13:06:36 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

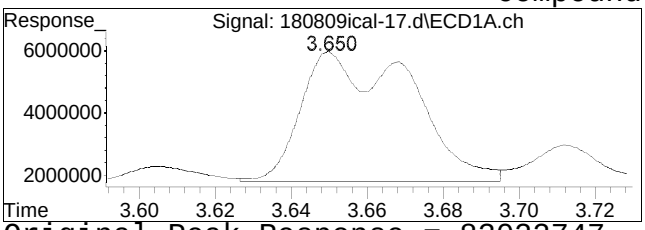


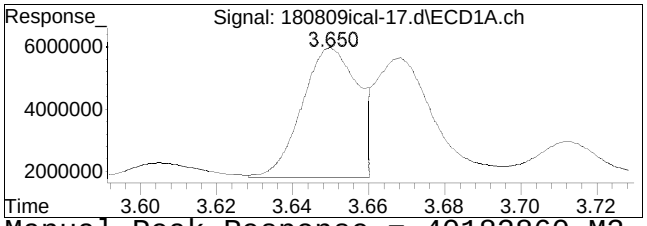
Manual Integration Report

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-17.d
Date Inj'd : 8/9/2018 12:38 pm
Sample : il31248,42e,,8742

QMethod : P16_pcb_08_09i_18_ugL_IC
Operator : pest16:jw
Instrument : PEST16
Quant Date : 8/15/2018 1:06 pm

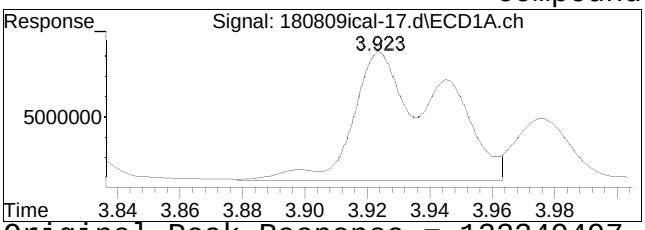
Compound #35: 1248-1

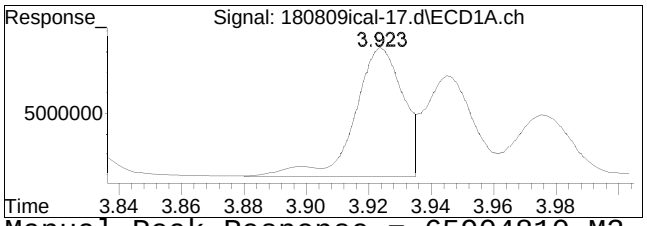




Original Peak Response = 83022747 Manual Peak Response = 40182860 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

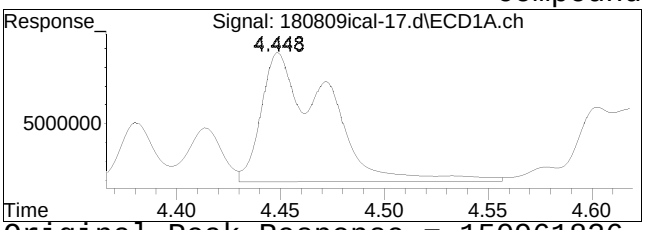
Compound #36: 1248-2

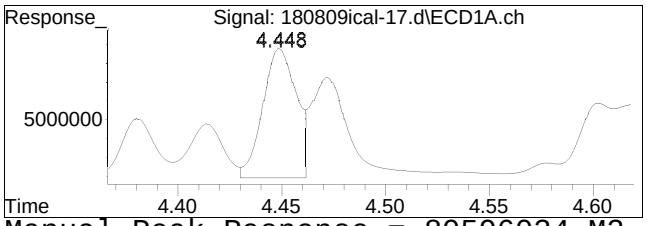




Original Peak Response = 123349497 Manual Peak Response = 65904810 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

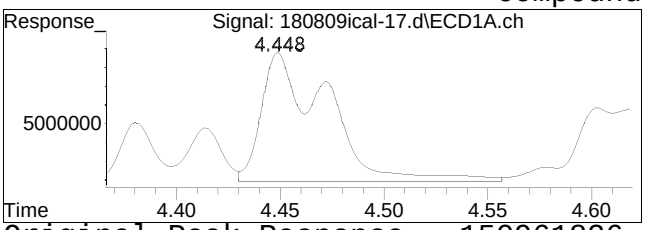
Compound #38: 1248-4

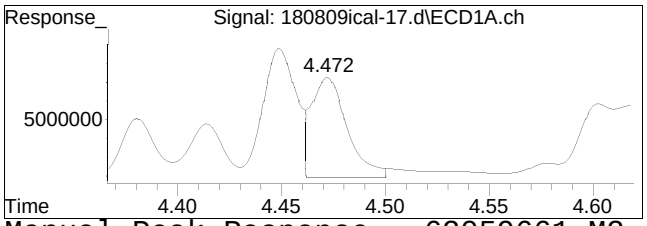




Original Peak Response = 150961826 Manual Peak Response = 80596034 M2
M2 = Peak not found by automatic integration algorithm.

Compound #39: 1248-5





Original Peak Response = 150961826 Manual Peak Response = 62059661 M2
M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-18.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 12:51 pm
Operator : pest16:jw
Sample : il41248,42e,,8743
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 13:03:04 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 13:01:24 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	2.267	2.375	604.3E6	1224.7E6	250.000	250.000
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-T...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	500.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
3) s	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	500.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-18.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 12:51 pm
Operator : pest16:jw
Sample : il41248,42e,,8743
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 13:03:04 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 13:01:24 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	3.649	4.148	109.5E6	215.6E6	2476.646	2681.731
36) l7	1248-2	3.923	4.437	194.4E6	326.9E6	2571.765	2574.539
37) l7	1248-3	4.109	4.664	295.6E6	406.0E6	2549.552	2514.415
38) l7	1248-4	4.448	4.962	209.5E6	354.3E6	2542.208	2528.426
39) l7	1248-5	4.471	5.000	182.8E6	406.2E6	2371.305	2483.131
Sum	1248-1			991.7E6	1709.0E6	N.D.	N.D.

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-18.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 12:51 pm
Operator : pest16:jw
Sample : il41248,42e,,8743
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 13:03:04 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 13:01:24 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1248-1					2502.295	2556.448
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
45) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
46) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

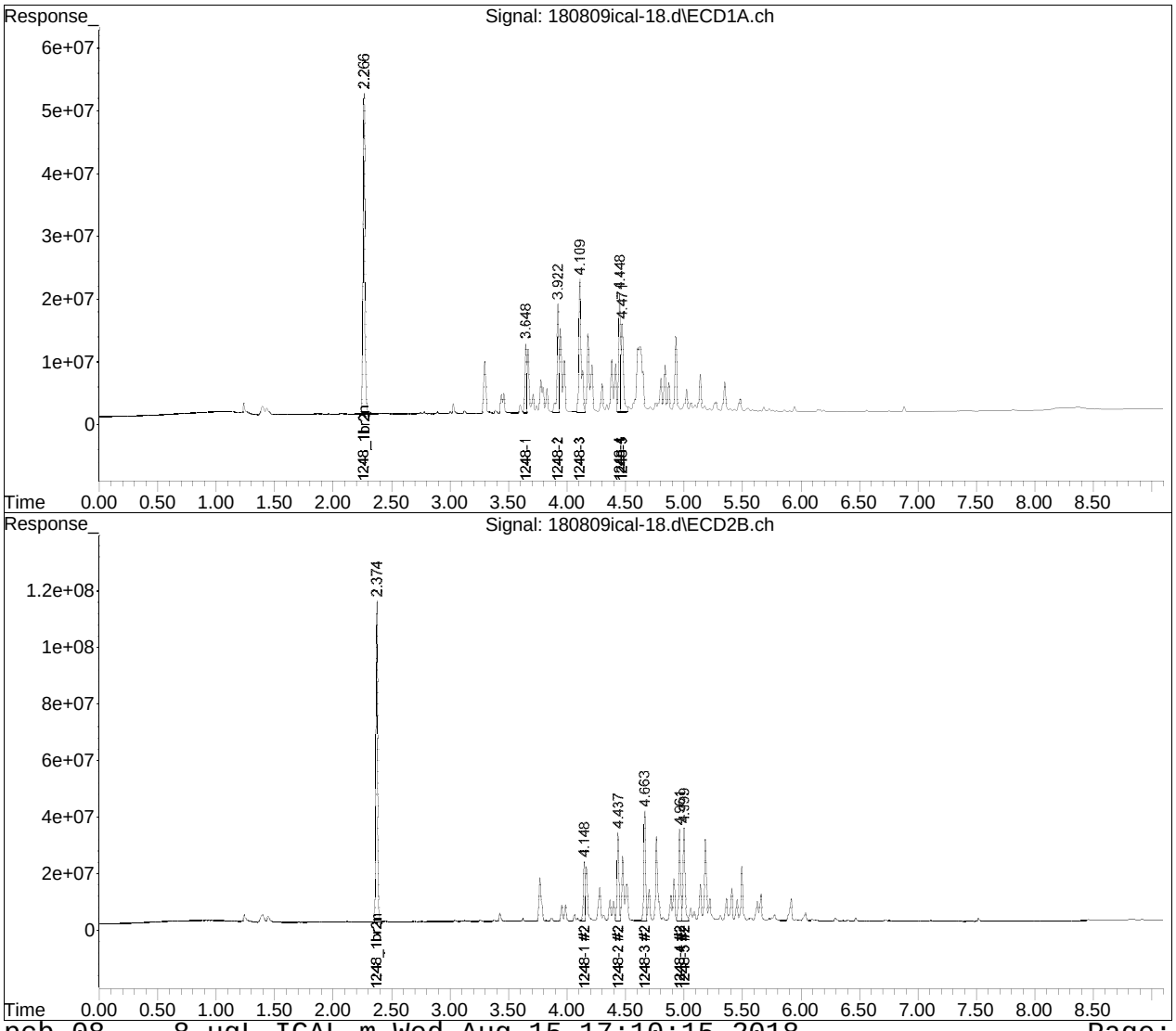
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-18.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 12:51 pm
Operator : pest16:jw
Sample : il41248,42e,,8743
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 13:03:04 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 13:01:24 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\Pest16\180809ICAL\	QMethod	: P16_pcb_08_09i_18_ugL_IC
Data File	: 180809ical-18.d	Operator	: pest16:jw
Date Inj'd	: 8/9/2018 12:51 pm	Instrument	: PEST16
Sample	: il41248,42e,,8743	Quant Date	: 8/15/2018 1:01 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-19.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 1:04 pm
Operator : pest16:jw
Sample : il51248,42e,,8744
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 13:05:09 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 13:03:12 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	2.267	2.375	601.3E6	1213.0E6	250.000	250.000
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-T...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	500.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
3) s	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	500.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-19.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 1:04 pm
Operator : pest16:jw
Sample : il51248,42e,,8744
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 13:05:09 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 13:03:12 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	3.650	4.148	213.1E6	410.5E6	4888.250	4805.515
36) l7	1248-2	3.923	4.437	370.3E6	610.5E6	4787.345	4713.839
37) l7	1248-3	4.108	4.664	560.1E6	765.2E6	4761.118M1	4757.874
38) l7	1248-4	4.448	4.962	406.3E6	683.2E6	4873.424	4867.038
39) l7	1248-5	4.471	5.001	354.1E6	774.9E6	4867.028	4816.169
Sum	1248-1			1904.0E6	3244.3E6	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-19.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 1:04 pm
Operator : pest16:jw
Sample : il51248,42e,,8744
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 13:05:09 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 13:03:12 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average 1248-1					4835.433	4792.087
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
45) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
46) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

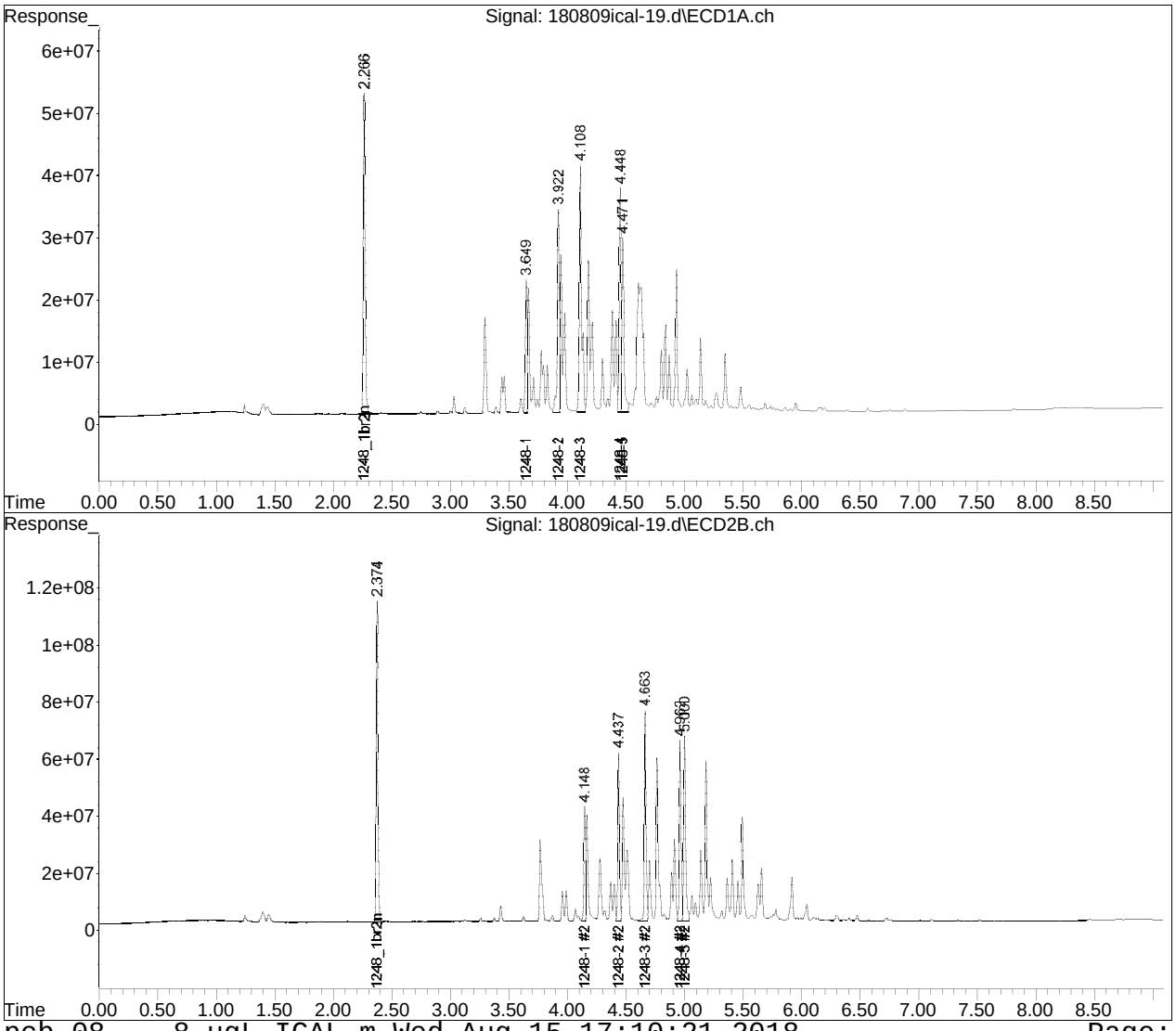
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-19.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 1:04 pm
Operator : pest16:jw
Sample : il51248,42e,,8744
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 13:05:09 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 13:03:12 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

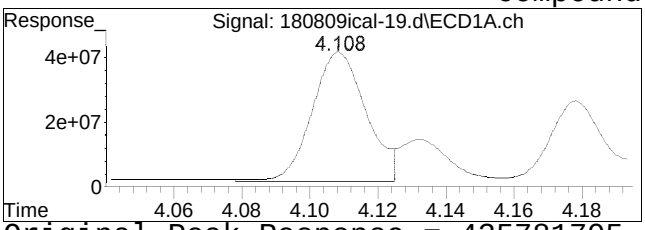


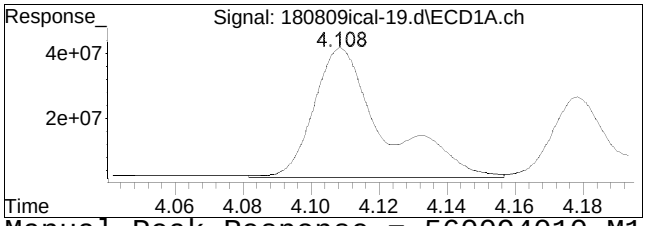
Manual Integration Report

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-19.d
Date Inj'd : 8/9/2018 1:04 pm
Sample : il51248,42e,,8744

QMethod : P16_pcb_08_09i_18_ugL_IC
Operator : pest16:jw
Instrument : PEST16
Quant Date : 8/15/2018 1:03 pm

Compound #37: 1248-3





Original Peak Response = 435781705 Manual Peak Response = 560094010 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-20.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 1:17 pm
Operator : pest16:jw
Sample : il61248,42e,,8745
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 13:06:13 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 13:05:15 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	2.265	2.373	622.8E6	1245.3E6	250.000	250.000
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-T...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	500.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
3) s	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	500.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-20.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 1:17 pm
Operator : pest16:jw
Sample : il61248,42e,,8745
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 13:06:13 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 13:05:15 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	3.648	4.147	503.1E6	964.0E6	11266.369	11211.626
36) l7	1248-2	3.922	4.437	821.5E6	1354.2E6	10474.318	10485.589
37) l7	1248-3	4.107	4.663	1259.8E6	1709.0E6	10591.356M1	10606.601
38) l7	1248-4	4.447	4.961	959.5E6	1599.6E6	11251.363	11249.916
39) l7	1248-5	4.470	4.999	822.9E6	1804.4E6	11065.228	11128.164

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-20.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 1:17 pm
Operator : pest16:jw
Sample : il61248,42e,,8745
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 13:06:13 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 13:05:15 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1248-1			4366.8E6	7431.2E6	N.D.	N.D.
Average	1248-1					10929.727	10936.379
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
45) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
46) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

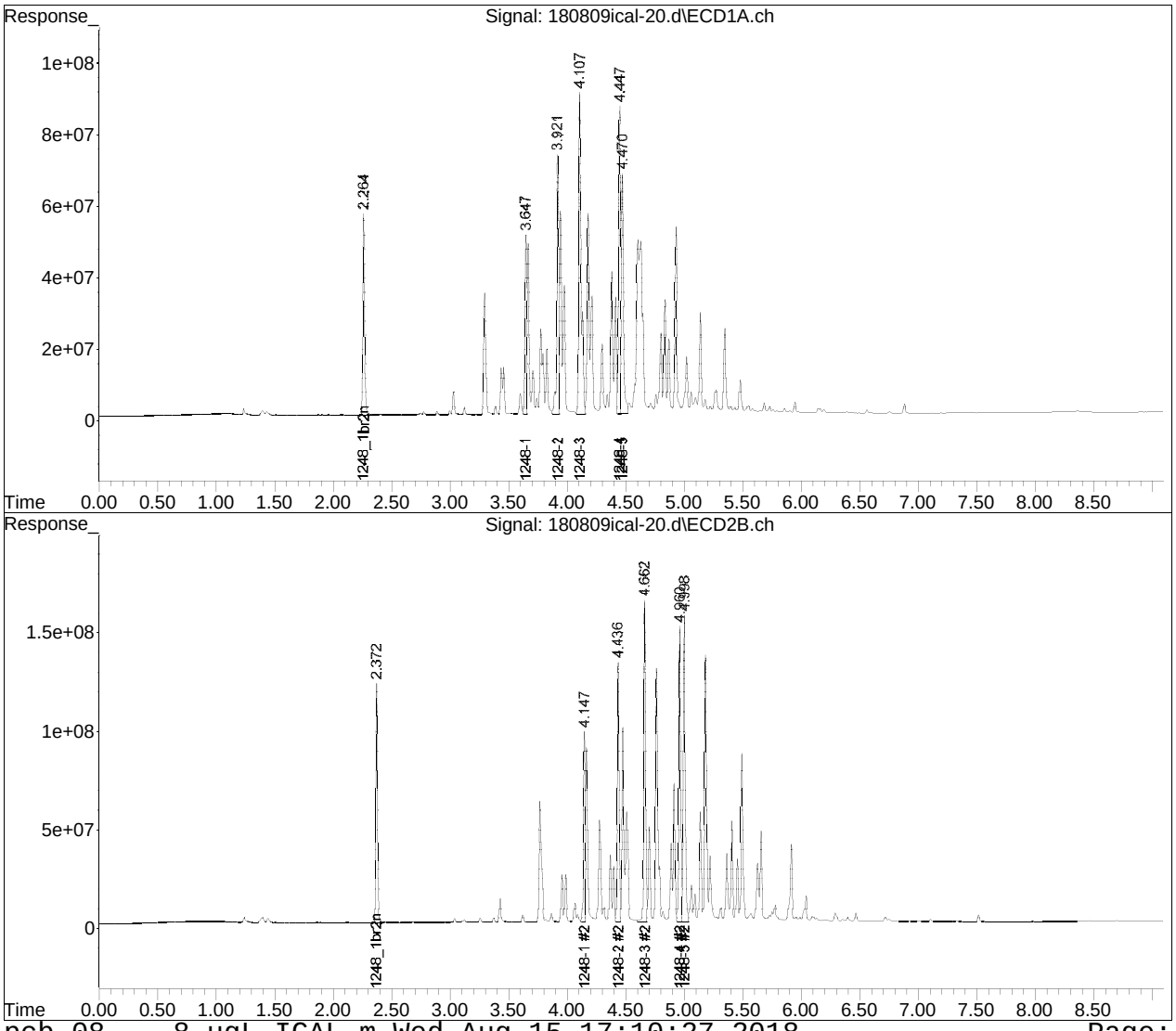
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-20.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 1:17 pm
Operator : pest16:jw
Sample : il61248,42e,,8745
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 13:06:13 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 13:05:15 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

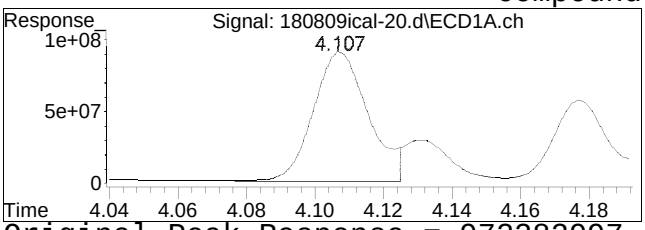


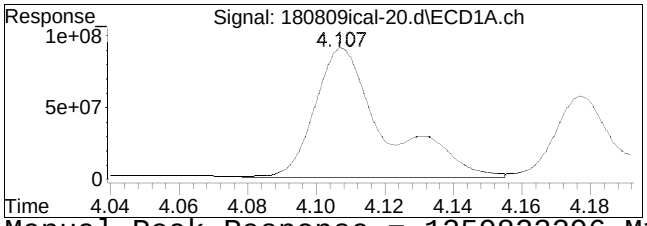
Manual Integration Report

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-20.d
Date Inj'd : 8/9/2018 1:17 pm
Sample : il61248,42e,,8745

QMethod : P16_pcb_08_09i_18_ugL_IC
Operator : pest16:jw
Instrument : PEST16
Quant Date : 8/15/2018 1:05 pm

Compound #37: 1248-3





Original Peak Response = 972282997 Manual Peak Response = 1259823296 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-21.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 1:30 pm
Operator : pest16:jw
Sample : il12154,42e,,8675
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 13:27:57 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 13:23:40 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	2.265	2.373	642.3E6	1297.4E6	250.000	250.000
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-T...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
3) s	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	2.892	3.261	2692946	6088685	96.853M4	102.607
16) l3	1221-3	3.001	3.377	1846583	3992216	114.877	111.143
17) l3	1221-4	3.032	3.428	6793300	16196858	103.962	113.585

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-21.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 1:30 pm
Operator : pest16:jw
Sample : il12154,42e,,8675
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 13:27:57 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 13:23:40 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Sum 1221-2			11332829	26277759	315.692	327.335
Average	1221-2					105.231	109.112
18) l4	1254-1	4.413	4.995	14581210	35294070	130.801M4	173.635M4
#							
19) l4	1254-2	4.615	5.136	25544669	26806041	135.729M4	113.312M4
20) l4	1254-3	4.926	5.492	17618892	39130342	94.907M4	114.237
21) l4	1254-4	5.135	5.652	15375434	23601666	130.924M4	127.689M4
22) l4	1254-5	5.476	6.038	17889852	27351859	90.394	90.920M4
	Sum 1254-1			91010057	152.2E6	N.D.	N.D.
Average	1254-1					116.551	123.959
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-21.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 1:30 pm
Operator : pest16:jw
Sample : il12154,42e,,8675
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 13:27:57 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 13:23:40 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
38)	l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39)	l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41)	l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42)	l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43)	l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44)	l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
45)	l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
46)	l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
47)	l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
48)	l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
49)	l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

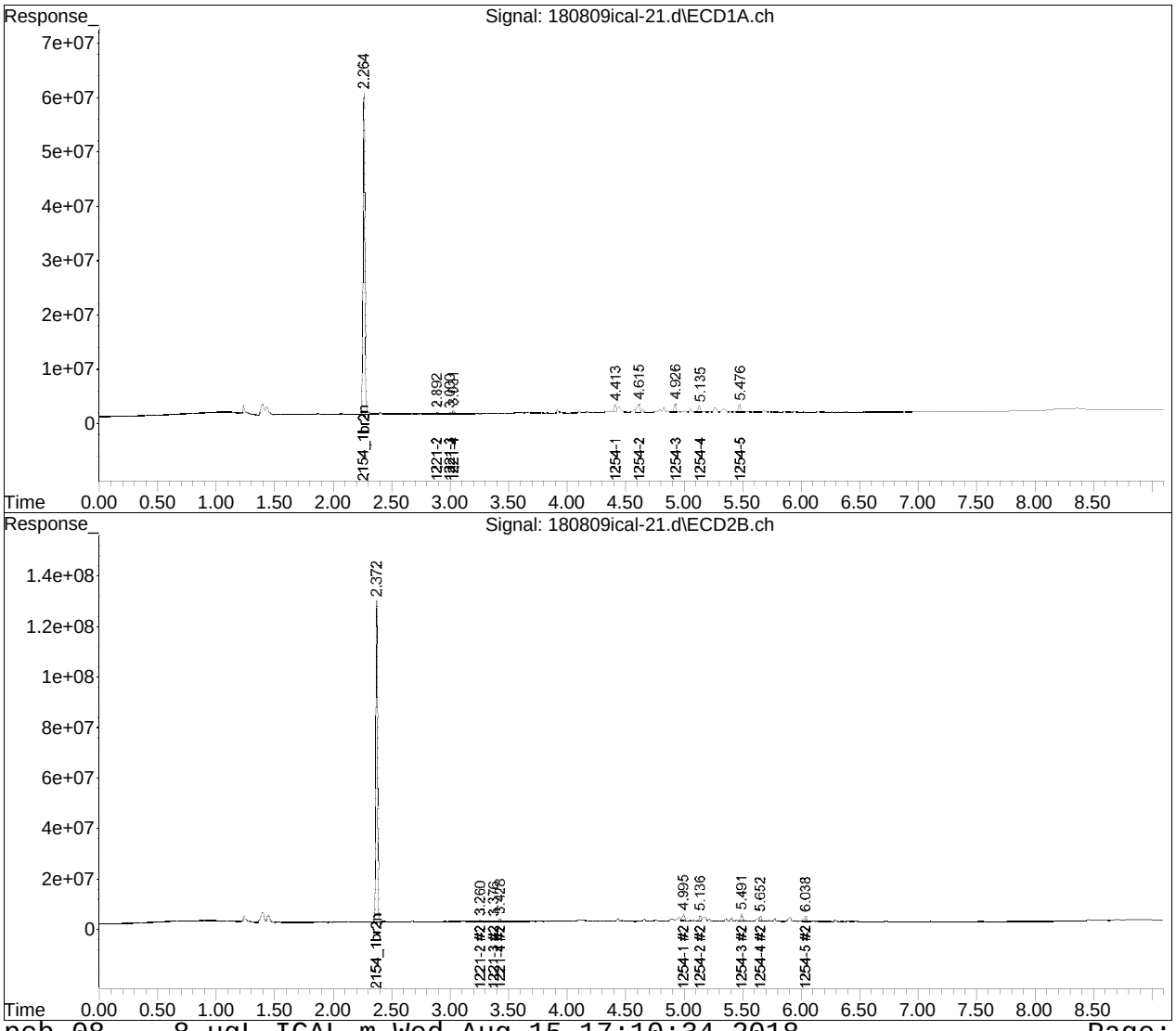
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-21.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 1:30 pm
Operator : pest16:jw
Sample : il12154,42e,,8675
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 13:27:57 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 13:23:40 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

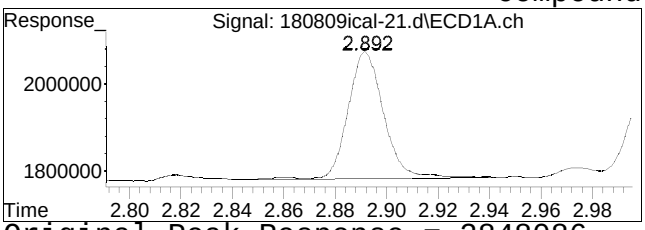


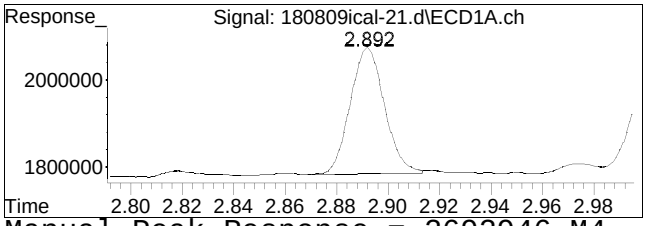
Manual Integration Report

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-21.d
Date Inj'd : 8/9/2018 1:30 pm
Sample : il12154,42e,,8675

QMethod : P16_pcb_08_09i_18_ugL_IC
Operator : pest16:jw
Instrument : PEST16
Quant Date : 8/15/2018 1:23 pm

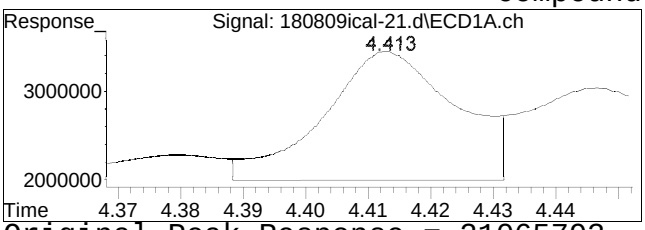
Compound #15: 1221-2

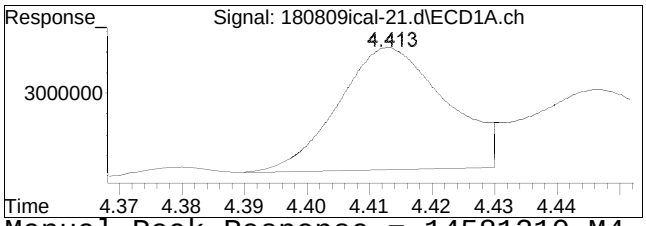




Original Peak Response = 2848086 Manual Peak Response = 2692946 M4
M4 = Poor automated baseline construction.

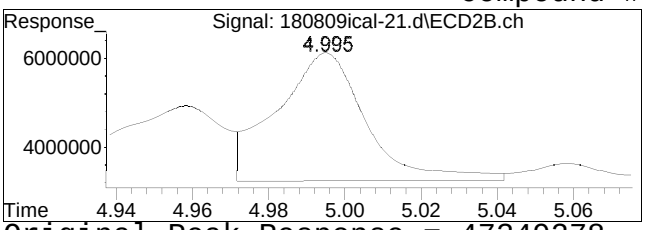
Compound #18: 1254-1

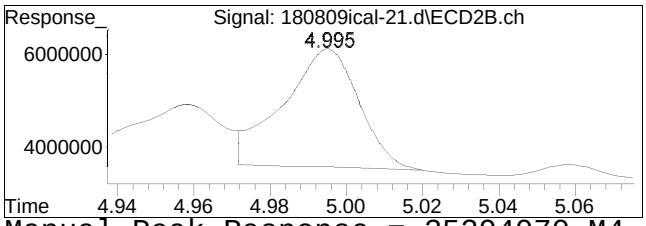




Original Peak Response = 21065793 Manual Peak Response = 14581210 M4
M4 = Poor automated baseline construction.

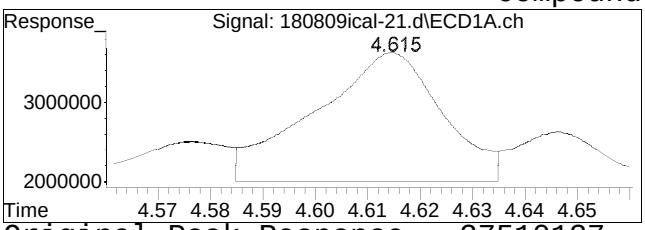
Compound #68: 1254-1 #2

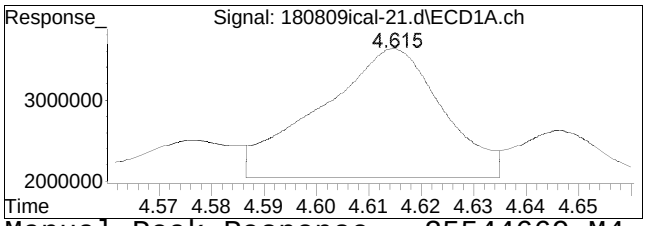




Original Peak Response = 47349278 Manual Peak Response = 35294070 M4
M4 = Poor automated baseline construction.

Compound #19: 1254-2





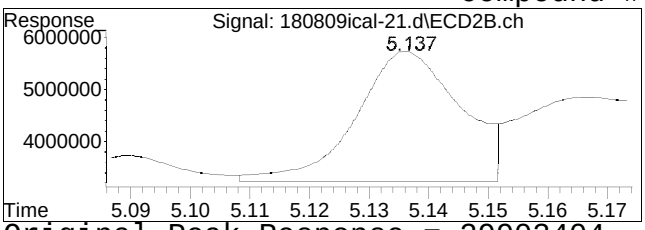
Original Peak Response = 27510137 Manual Peak Response = 25544669 M4
M4 = Poor automated baseline construction.

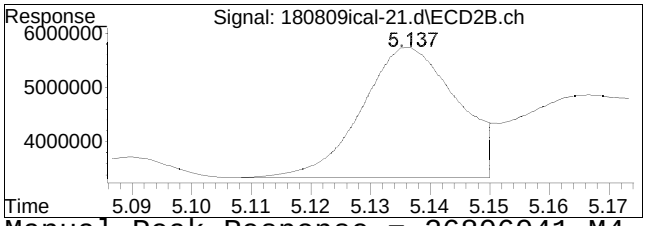
Manual Integration Report

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-21.d
Date Inj'd : 8/9/2018 1:30 pm
Sample : il12154,42e,,8675

QMethod : P16_pcb_08_09i_18_ugL_IC
Operator : pest16:jw
Instrument : PEST16
Quant Date : 8/15/2018 1:23 pm

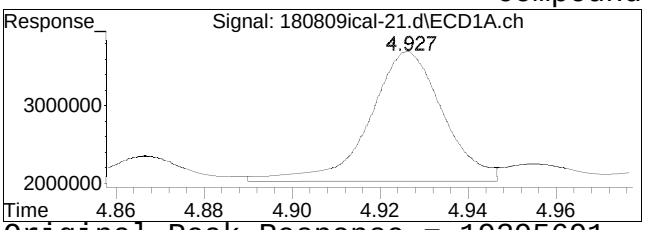
Compound #69: 1254-2 #2

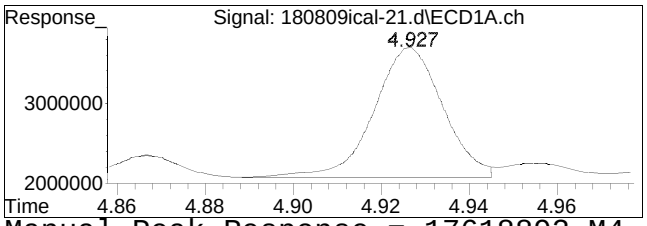




Original Peak Response = 29903404 Manual Peak Response = 26806041 M4
M4 = Poor automated baseline construction.

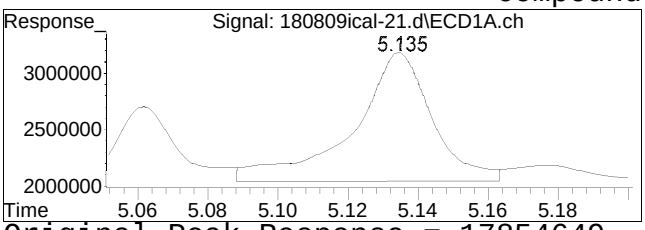
Compound #20: 1254-3

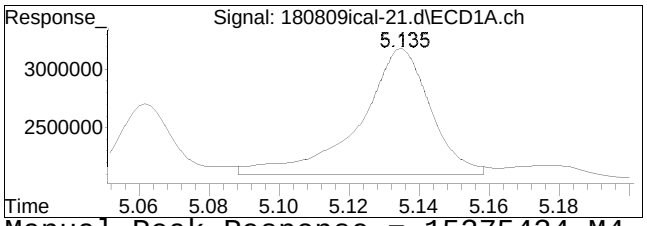




Original Peak Response = 19395691 Manual Peak Response = 17618892 M4
M4 = Poor automated baseline construction.

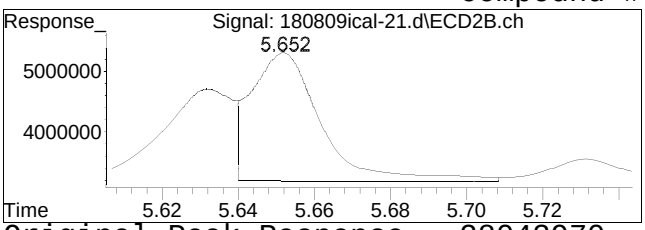
Compound #21: 1254-4

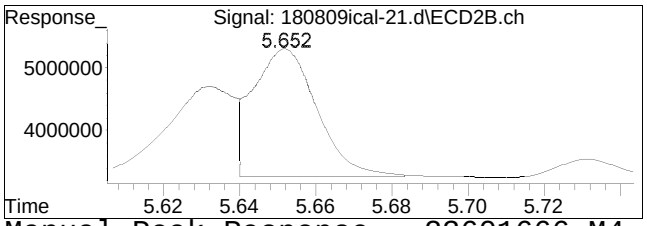




Original Peak Response = 17854649 Manual Peak Response = 15375434 M4
M4 = Poor automated baseline construction.

Compound #71: 1254-4 #2





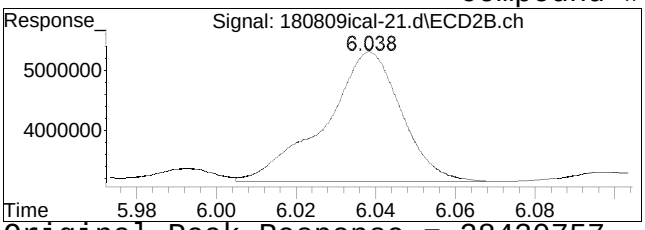
Original Peak Response = 28043970 Manual Peak Response = 23601666 M4
M4 = Poor automated baseline construction.

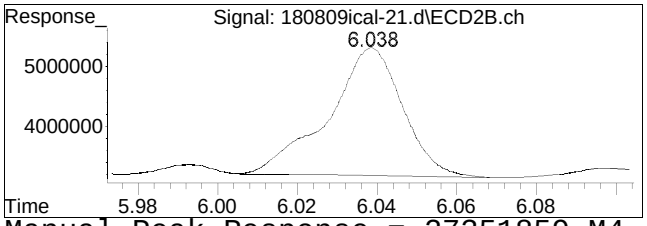
Manual Integration Report

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-21.d
Date Inj'd : 8/9/2018 1:30 pm
Sample : il12154,42e,,8675

QMethod : P16_pcb_08_09i_18_ugL_IC
Operator : pest16:jw
Instrument : PEST16
Quant Date : 8/15/2018 1:23 pm

Compound #72: 1254-5 #2





Original Peak Response = 28430757 Manual Peak Response = 27351859 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-22.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 1:43 pm
Operator : pest16:jw
Sample : il22154,42e,,8674
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 13:23:35 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 13:22:09 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	2.265	2.374	608.8E6	1219.9E6	250.000M4	250.000
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-T...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
3) s	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	2.892	3.261	13358367	29259778	508.628	530.857
16) l3	1221-3	3.000	3.377	7932852	18098596	526.104M2	545.621
17) l3	1221-4	3.032	3.429	32109272	70288286	523.256M2	530.622

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-22.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 1:43 pm
Operator : pest16:jw
Sample : il22154,42e,,8674
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 13:23:35 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 13:22:09 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-2			53400491	117.6E6	1557.988	1607.101
Average	1221-2					519.329	535.700
18) l4	1254-1	4.413	4.997	55015495	102.3E6	526.117M3	545.144
19) l4	1254-2	4.614	5.137	91247334	120.0E6	514.479M3	550.205
20) l4	1254-3	4.926	5.493	87211297	163.5E6	494.553M3	509.735
21) l4	1254-4	5.137	5.654	56038537	90349582	504.306	525.035
22) l4	1254-5	5.478	6.040	91285089	140.3E6	483.400	495.131
Sum	1254-1			380.8E6	616.6E6	N.D.	N.D.
Average	1254-1					504.571	525.050
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-22.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 1:43 pm
Operator : pest16:jw
Sample : il22154,42e,,8674
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 13:23:35 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 13:22:09 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
45) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
46) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

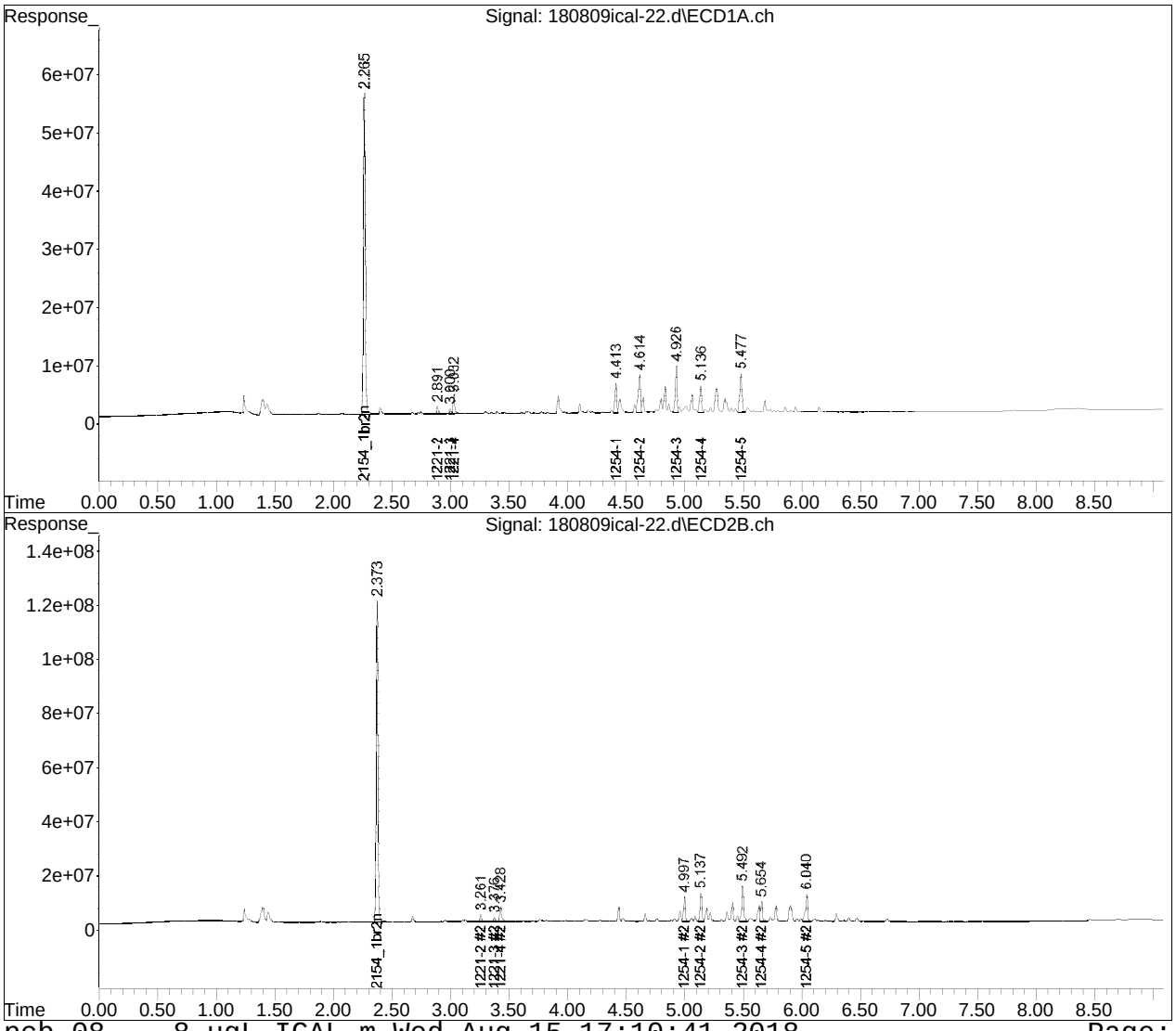
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-22.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 1:43 pm
Operator : pest16:jw
Sample : il22154,42e,,8674
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 13:23:35 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 13:22:09 2018
Response via : Initial Calibration
Integrator: ChemStation

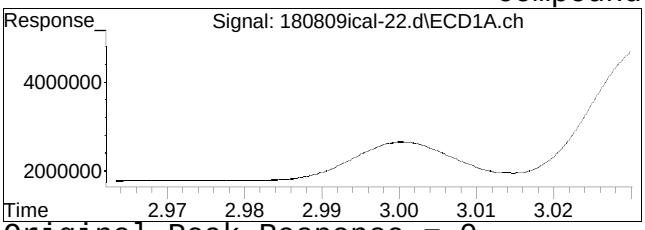
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

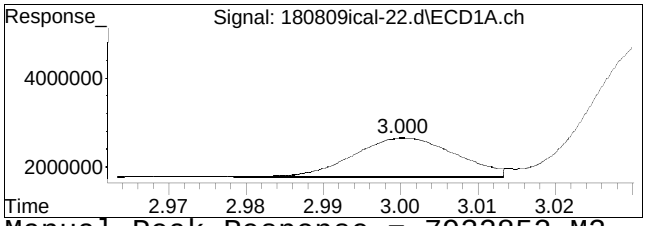


Manual Integration Report

Data Path : I:\Pest16\180809ICAL\ QMethod : P16_pcb_08_09i_18_ugL_IC
Data File : 180809ical-22.d Operator : pest16:jw
Date Inj'd : 8/9/2018 1:43 pm Instrument : PEST16
Sample : il22154,42e,,8674 Quant Date : 8/15/2018 1:22 pm

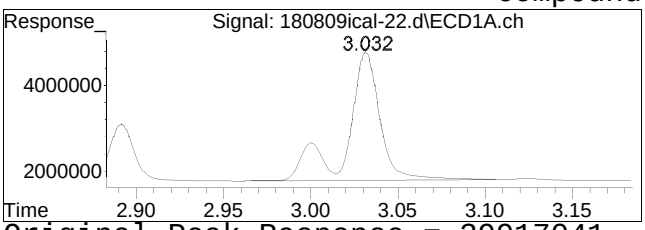
Compound #16: 1221-3

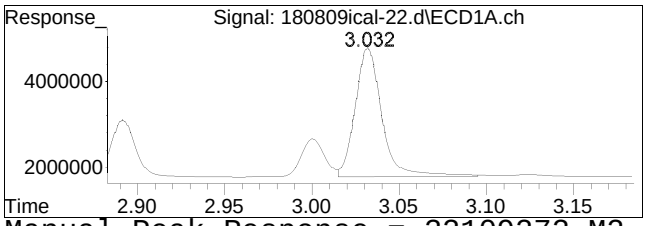




Original Peak Response = 0 Manual Peak Response = 7932852 M2
M2 = Peak not found by automatic integration algorithm.

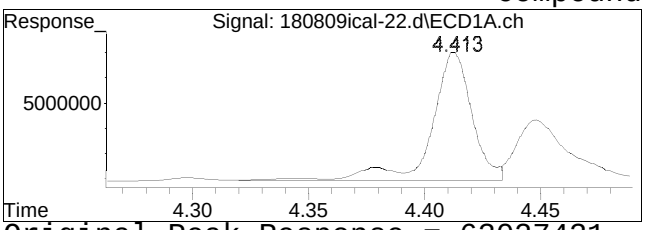
Compound #17: 1221-4

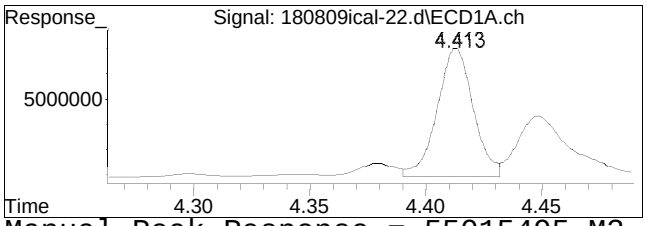




Original Peak Response = 39917041 Manual Peak Response = 32109272 M2
M2 = Peak not found by automatic integration algorithm.

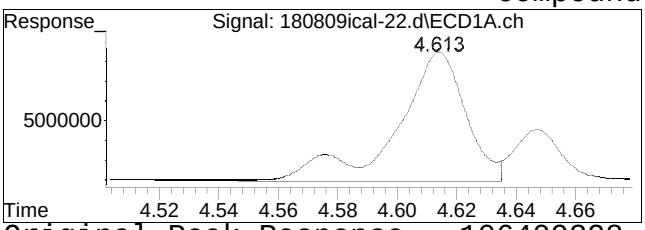
Compound #18: 1254-1

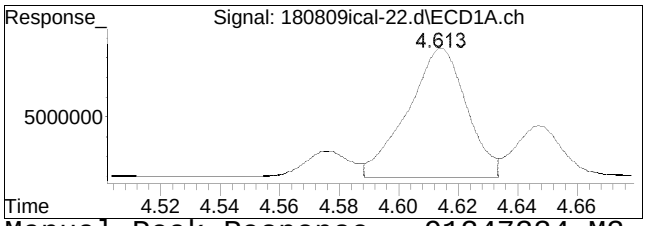




Original Peak Response = 63027431 Manual Peak Response = 55015495 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Compound #19: 1254-2



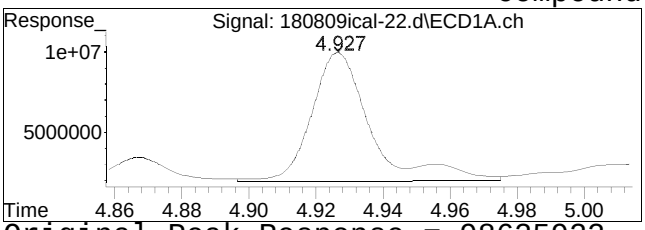


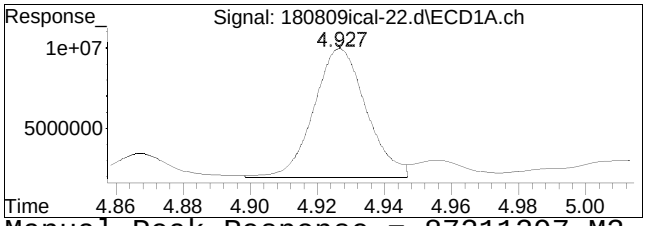
Original Peak Response = 106409328 Manual Peak Response = 91247334 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\Pest16\180809ICAL\ QMethod : P16_pcb_08_09i_18_ugL_IC
Data File : 180809ical-22.d Operator : pest16:jw
Date Inj'd : 8/9/2018 1:43 pm Instrument : PEST16
Sample : il22154,42e,,8674 Quant Date : 8/15/2018 1:22 pm

Compound #20: 1254-3





Original Peak Response = 98625922 Manual Peak Response = 87211297 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-23.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 1:55 pm
Operator : pest16:jw
Sample : il32154,42e,,8673
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 13:22:01 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 13:20:42 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	2.266	2.375	566.5E6	1145.3E6	250.000M4	250.000
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-T...	0.000	0.000	0	0	N.D. d	N.D. d
Spiked Amount	500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
3) s	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
Spiked Amount	500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016-1			0	0	N.D.	N.D.
Average	1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260-1			0	0	N.D.	N.D.
Average	1260-1					0.000	0.000
15) l3	1221-2	2.893	3.262	25827505	56823682	1077.127	1135.310
16) l3	1221-3	3.002	3.378	14710235	34691666	1065.518	1158.065
17) l3	1221-4	3.033	3.430	60518141	136.7E6	1081.318	1137.140

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-23.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 1:55 pm
Operator : pest16:jw
Sample : il32154,42e,,8673
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 13:22:01 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 13:20:42 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-2			101.1E6	228.2E6	3223.963	3430.516
Average	1221-2					1074.654	1143.505
18) l4	1254-1	4.412	4.997	104.6E6	187.2E6	1102.747M3	1084.910
19) l4	1254-2	4.614	5.137	176.5E6	219.3E6	1094.678M3	1097.128
20) l4	1254-3	4.926	5.492	171.3E6	312.4E6	1059.690M3	1050.101
21) l4	1254-4	5.135	5.654	105.3E6	162.3E6	1024.642M3	1005.893
22) l4	1254-5	5.477	6.038	181.9E6	273.7E6	1047.483	1038.409
Sum	1254-1			739.7E6	1154.9E6	N.D.	N.D.
Average	1254-1					1065.848	1055.288
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-23.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 1:55 pm
Operator : pest16:jw
Sample : il32154,42e,,8673
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 13:22:01 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 13:20:42 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
45) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
46) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

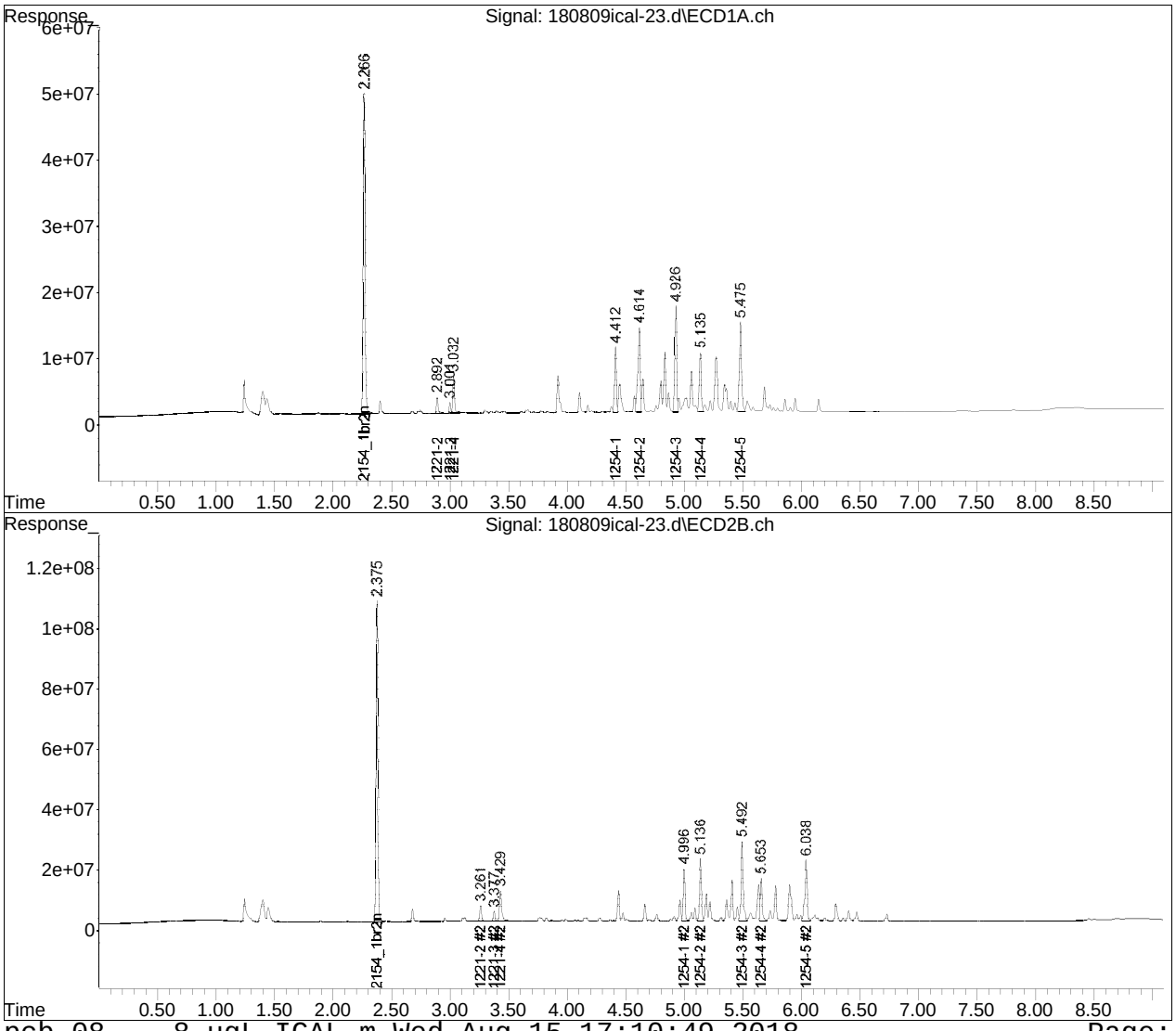
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-23.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 1:55 pm
Operator : pest16:jw
Sample : il32154,42e,,8673
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 13:22:01 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 13:20:42 2018
Response via : Initial Calibration
Integrator: ChemStation

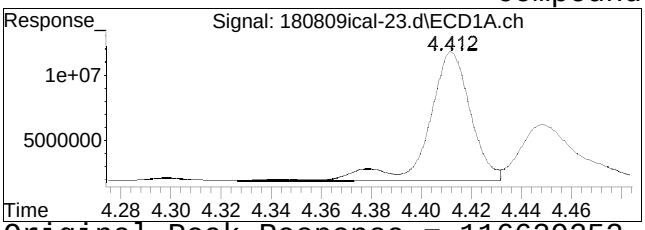
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

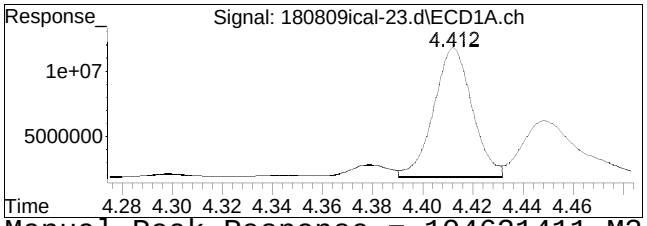


Manual Integration Report

Data Path : I:\Pest16\180809ICAL\ QMethod : P16_pcb_08_09i_18_ugL_IC
Data File : 180809ical-23.d Operator : pest16:jw
Date Inj'd : 8/9/2018 1:55 pm Instrument : PEST16
Sample : il32154,42e,,8673 Quant Date : 8/15/2018 1:20 pm

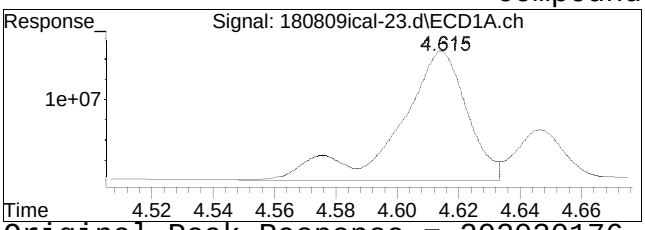
Compound #18: 1254-1

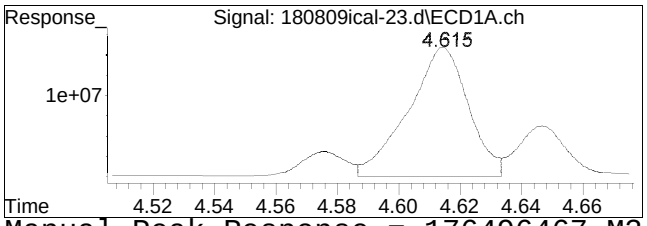




Original Peak Response = 116629252 Manual Peak Response = 104621411 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

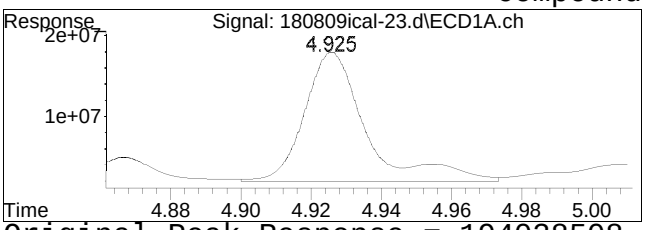
Compound #19: 1254-2

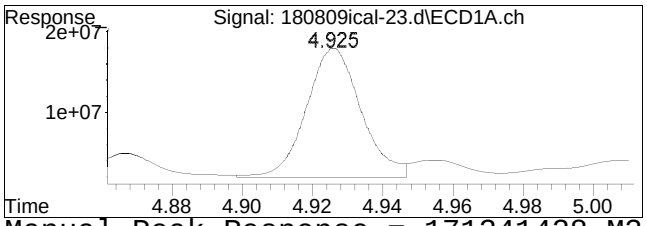




Original Peak Response = 202030176 Manual Peak Response = 176496467 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

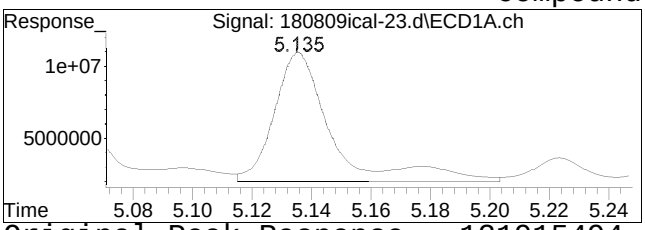
Compound #20: 1254-3

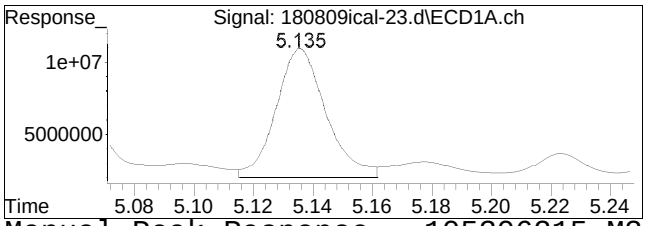




Original Peak Response = 194038508 Manual Peak Response = 171341428 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Compound #21: 1254-4





Original Peak Response = 121915494 Manual Peak Response = 105306215 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-24.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 2:08 pm
Operator : pest16:jw
Sample : il42154,42e,,8672
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 13:19:31 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 13:18:18 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	2.265	2.374	588.9E6	1192.9E6	250.000M4	250.000
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-T...	0.000	0.000	0	0	N.D. d	N.D. d
Spiked Amount	500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
3) s	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
Spiked Amount	500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016-1			0	0	N.D.	N.D.
Average	1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260-1			0	0	N.D.	N.D.
Average	1260-1					0.000	0.000
15) l3	1221-2	2.892	3.261	64206608	135.3E6	2486.406	2478.752
16) l3	1221-3	3.001	3.376	38244148	81922459	2641.163	2513.457
17) l3	1221-4	3.031	3.429	152.8E6	330.1E6	2555.264	2510.002

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-24.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 2:08 pm
Operator : pest16:jw
Sample : il42154,42e,,8672
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 13:19:31 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 13:18:18 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Sum 1221-2			255.3E6	547.3E6	7682.834	7502.210
Average	1221-2					2560.945	2500.737
18) l4	1254-1	4.411	4.996	253.3E6	457.3E6	2454.973	2419.025
19) l4	1254-2	4.613	5.136	428.2E6	532.8E6	2441.388	2434.474
20) l4	1254-3	4.925	5.491	429.6E6	783.2E6	2455.039	2398.123
21) l4	1254-4	5.134	5.653	265.9E6	416.3E6	2418.826	2389.941
22) l4	1254-5	5.475	6.038	453.4E6	686.0E6	2375.013	2354.441
	Sum 1254-1			1830.3E6	2875.5E6	N.D.	N.D.
Average	1254-1					2429.048	2399.201
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1248-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-24.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 2:08 pm
Operator : pest16:jw
Sample : il42154,42e,,8672
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 13:19:31 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 13:18:18 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
45) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
46) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

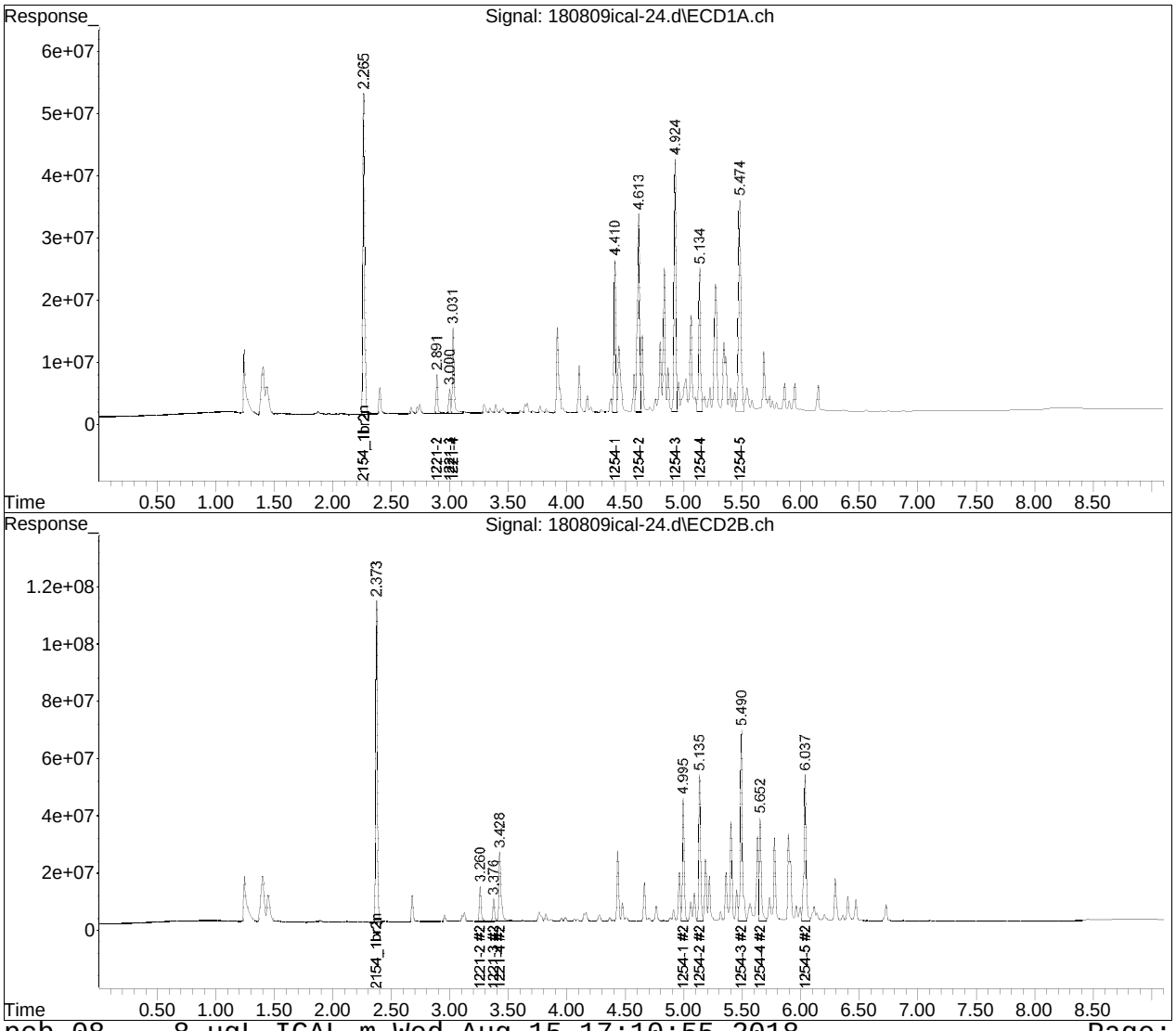
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-24.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 2:08 pm
Operator : pest16:jw
Sample : il42154,42e,,8672
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 13:19:31 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 13:18:18 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\Pest16\180809ICAL\	QMethod	: P16_pcb_08_09i_18_ugL_IC
Data File	: 180809ical-24.d	Operator	: pest16:jw
Date Inj'd	: 8/9/2018 2:08 pm	Instrument	: PEST16
Sample	: il42154,42e,,8672	Quant Date	: 8/15/2018 1:18 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-25.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 2:21 pm
Operator : pest16:jw
Sample : il52154,42e,,8671
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 13:18:09 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 13:16:39 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	2.267	2.375	557.2E6	1123.3E6	250.000M4	250.000
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-T...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
3) s	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	2.893	3.262	122.2E6	256.9E6	NoCal	NoCal
16) l3	1221-3	3.001	3.377	68499723	153.5E6	NoCal M2	NoCal
17) l3	1221-4	3.032	3.429	282.9E6	619.2E6	NoCal M2	NoCal

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-25.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 2:21 pm
Operator : pest16:jw
Sample : il52154,42e,,8671
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 13:18:09 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 13:16:39 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	4.412	4.996	488.1E6	890.0E6	NoCal M3	NoCal
19) l4	1254-2	4.614	5.137	829.7E6	1030.3E6	NoCal M3	NoCal
20) l4	1254-3	4.925	5.492	827.7E6	1537.6E6	NoCal M3	NoCal
21) l4	1254-4	5.136	5.653	519.9E6	820.1E6	NoCal	NoCal
22) l4	1254-5	5.476	6.039	903.2E6	1371.9E6	NoCal	NoCal
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-25.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 2:21 pm
Operator : pest16:jw
Sample : il52154,42e,,8671
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 13:18:09 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 13:16:39 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
45) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
46) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

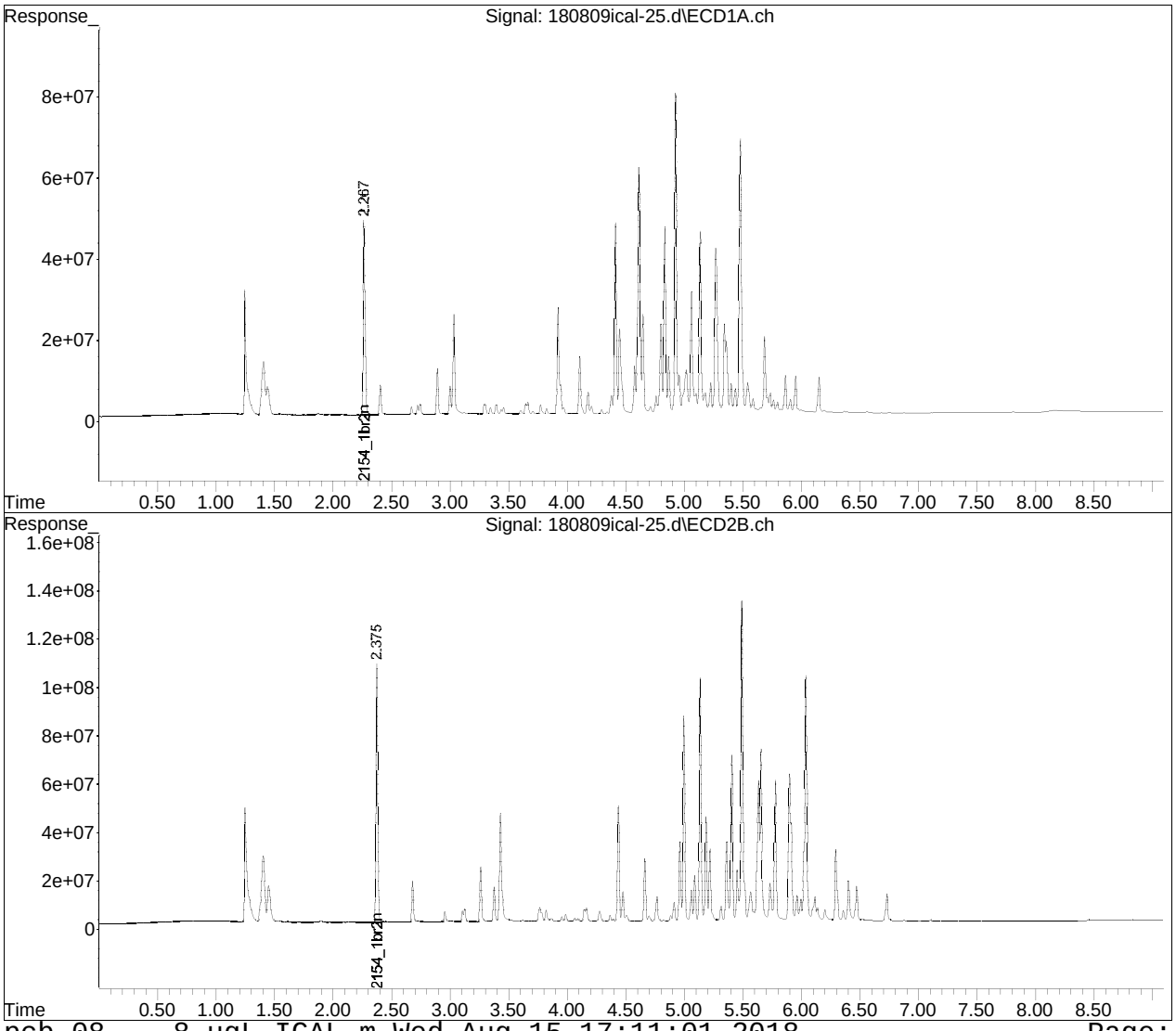
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-25.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 2:21 pm
Operator : pest16:jw
Sample : il52154,42e,,8671
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 13:18:09 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 13:16:39 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

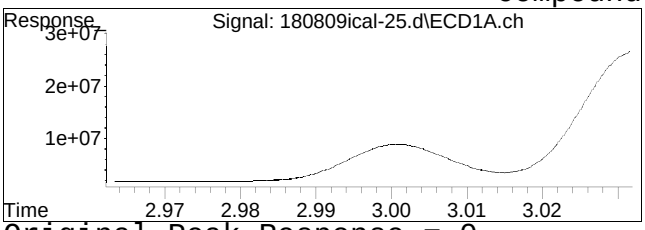


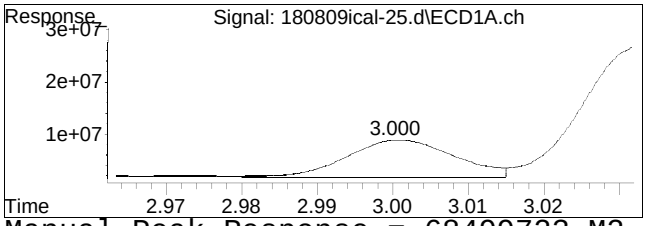
Manual Integration Report

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-25.d
Date Inj'd : 8/9/2018 2:21 pm
Sample : il52154,42e,,8671

QMethod : P16_pcb_08_09i_18_ugL_IC
Operator : pest16:jw
Instrument : PEST16
Quant Date : 8/15/2018 1:16 pm

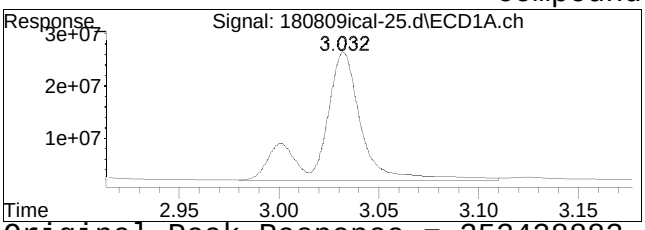
Compound #16: 1221-3

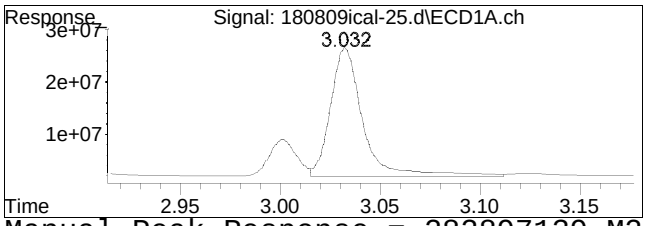




Original Peak Response = 0 Manual Peak Response = 68499723 M2
M2 = Peak not found by automatic integration algorithm.

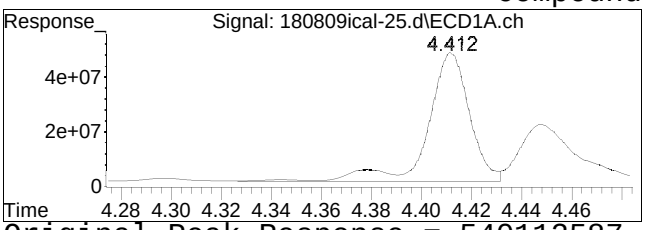
Compound #17: 1221-4

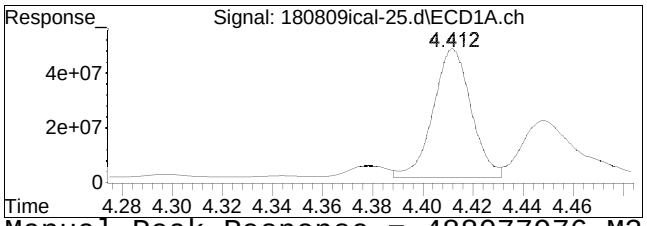




Original Peak Response = 353438883 Manual Peak Response = 282897139 M2
M2 = Peak not found by automatic integration algorithm.

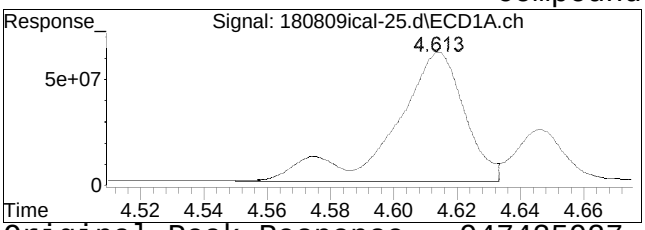
Compound #18: 1254-1

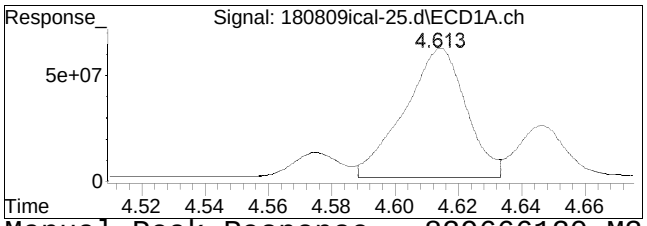




Original Peak Response = 540112587 Manual Peak Response = 488077976 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Compound #19: 1254-2



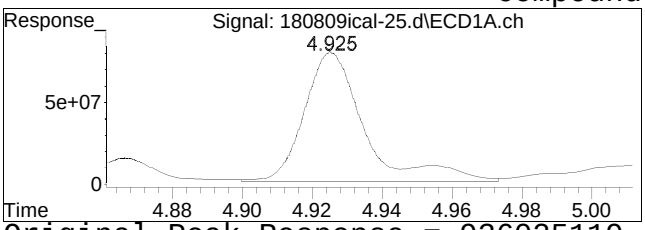


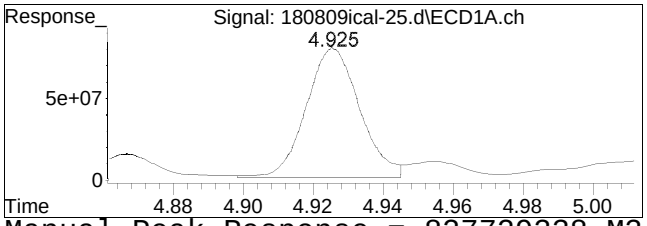
Original Peak Response = 947425927 Manual Peak Response = 829666120 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\Pest16\180809ICAL\ QMethod : P16_pcb_08_09i_18_ugL_IC
Data File : 180809ical-25.d Operator : pest16:jw
Date Inj'd : 8/9/2018 2:21 pm Instrument : PEST16
Sample : il52154,42e,,8671 Quant Date : 8/15/2018 1:16 pm

Compound #20: 1254-3





Original Peak Response = 936025119 Manual Peak Response = 827729338 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-26.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 2:34 pm
Operator : pest16:jw
Sample : il62154,42e,,8670
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 13:20:36 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 13:19:37 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	2.265	2.373	631.9E6	1290.1E6	250.000M4	250.000
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-T...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
3) s	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	2.892	3.261	249.7E6	516.1E6	9037.509	8782.135
16) l3	1221-3	3.001	3.376	142.5E6	305.5E6	8917.905	8643.077
17) l3	1221-4	3.032	3.428	575.3E6	1213.2E6	8868.081	8513.602

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-26.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 2:34 pm
Operator : pest16:jw
Sample : il62154,42e,,8670
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 13:20:36 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 13:19:37 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-2			967.5E6	2034.7E6	26823.495	25938.813
Average	1221-2					8941.165	8646.271
18) l4	1254-1	4.413	4.996	980.6E6	1810.0E6	8938.248	8999.845
19) l4	1254-2	4.615	5.136	1675.8E6	2083.1E6	9010.526	8919.039
20) l4	1254-3	4.927	5.492	1689.6E6	3133.3E6	9080.791	9056.139
21) l4	1254-4	5.136	5.653	1118.8E6	1767.0E6	9643.311	9591.922
22) l4	1254-5	5.476	6.039	1816.8E6	2787.8E6	9096.046	9112.764
Sum	1254-1			7281.6E6	11581.3E6	N.D.	N.D.
Average	1254-1					9153.784	9135.942
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-26.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 2:34 pm
Operator : pest16:jw
Sample : il62154,42e,,8670
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 13:20:36 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 13:19:37 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
45) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
46) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

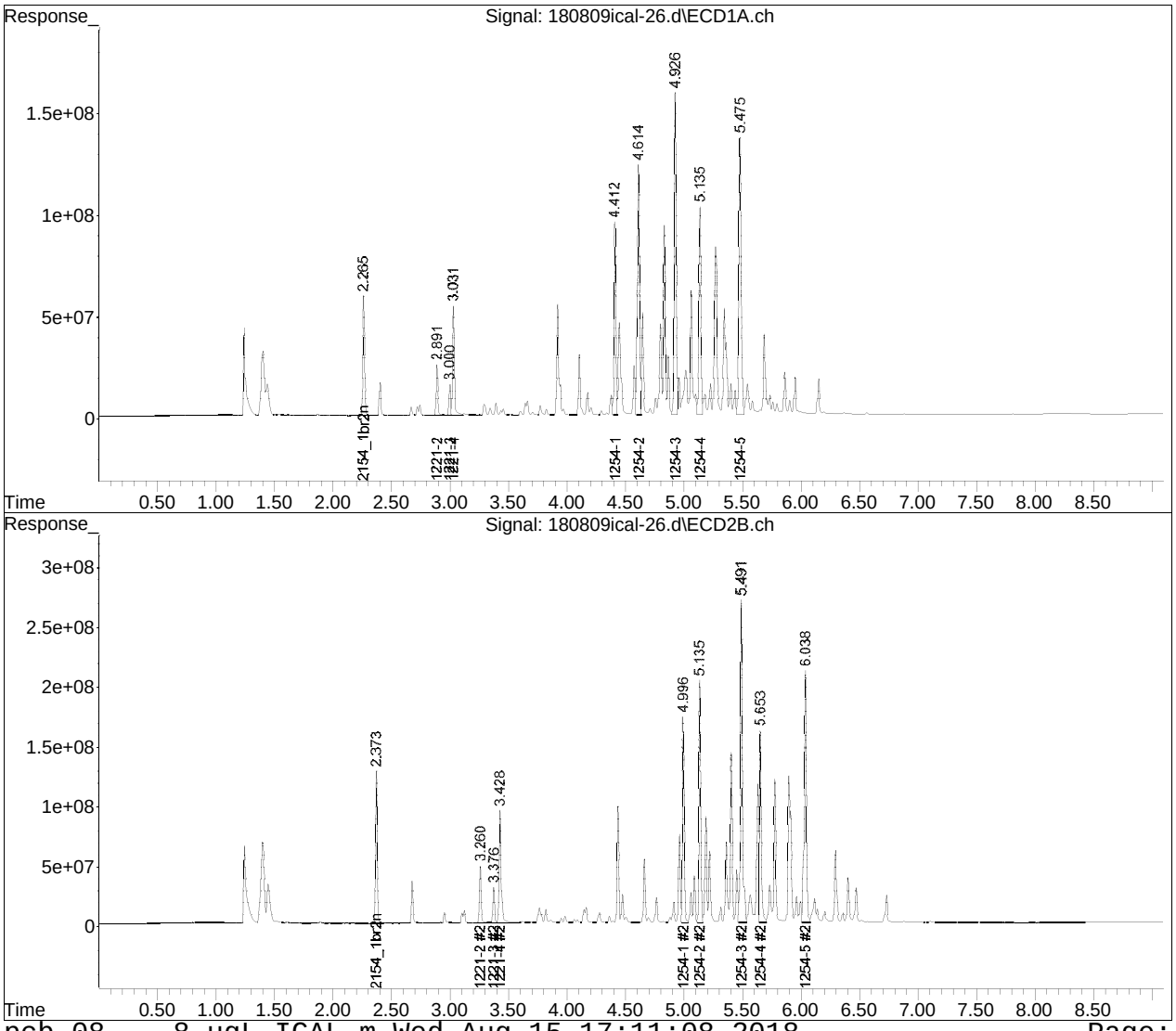
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-26.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 2:34 pm
Operator : pest16:jw
Sample : il62154,42e,,8670
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 13:20:36 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 13:19:37 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\Pest16\180809ICAL\	QMethod	: P16_pcb_08_09i_18_ugL_IC
Data File	: 180809ical-26.d	Operator	: pest16:jw
Date Inj'd	: 8/9/2018 2:34 pm	Instrument	: PEST16
Sample	: il62154,42e,,8670	Quant Date	: 8/15/2018 1:19 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-27.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 2:47 pm
Operator : pest16:jw
Sample : il11660,42e,,8761
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:24:47 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:21:16 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	2.266	2.374	674.7E6	1351.1E6	250.000	250.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-T...	2.779	3.043	19521118	40767820	5.564	6.059
	Spiked Amount 500.000	Range 30 - 150		Recovery =		1.11%#	1.21%#
3) s	Decachlor...	6.885	7.518	29947267	46736964	11.976	13.043
	Spiked Amount 500.000	Range 30 - 150		Recovery =		2.40%#	2.61%#
	Target Compounds						
4) l1	1016-1	3.033	3.429	5225161	12637310	107.210	123.331
5) l1	1016-2	3.297	3.768	12842453	24961056	110.603	107.703M4
6) l1	1016-3	3.667	4.165	20600304	40902143	98.532M1	100.072M4
7) l1	1016-4	3.777	4.279	8971466	18070385	98.990	113.696
8) l1	1016-5	4.108	4.663	11054647	14979745	104.201M1	105.450M4
	Sum 1016-1			58694030	111.6E6	519.536	550.252
	Average 1016-1					103.907	110.050
9) l2	1260-1	5.062	5.635	16182969	28776724	105.840M4	116.211M3
10) l2	1260-2	5.266	5.776	24666188	30040349	109.490M4	106.215M4
11) l2	1260-3	5.733	6.308	13515289	27281968	91.460M4	117.735 #
12) l2	1260-4	5.949	6.472	29026538	48702167	91.771M3	99.084
13) l2	1260-5	6.149	6.727	20892824	31752262	94.051	98.741
	Sum 1260-1			104.3E6	166.6E6	NoCal	NoCal
	Average 1260-1					98.522	107.597

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-27.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 2:47 pm
Operator : pest16:jw
Sample : il11660,42e,,8761
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:24:47 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:21:16 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
15) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000
18) l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
24) l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
29) l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9 1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9 1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-27.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 2:47 pm
Operator : pest16:jw
Sample : il11660,42e,,8761
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:24:47 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:21:16 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
37)	l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38)	l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39)	l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41)	l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42)	l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43)	l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44)	l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45)	l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46)	l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47)	l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48)	l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49)	l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50)	l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

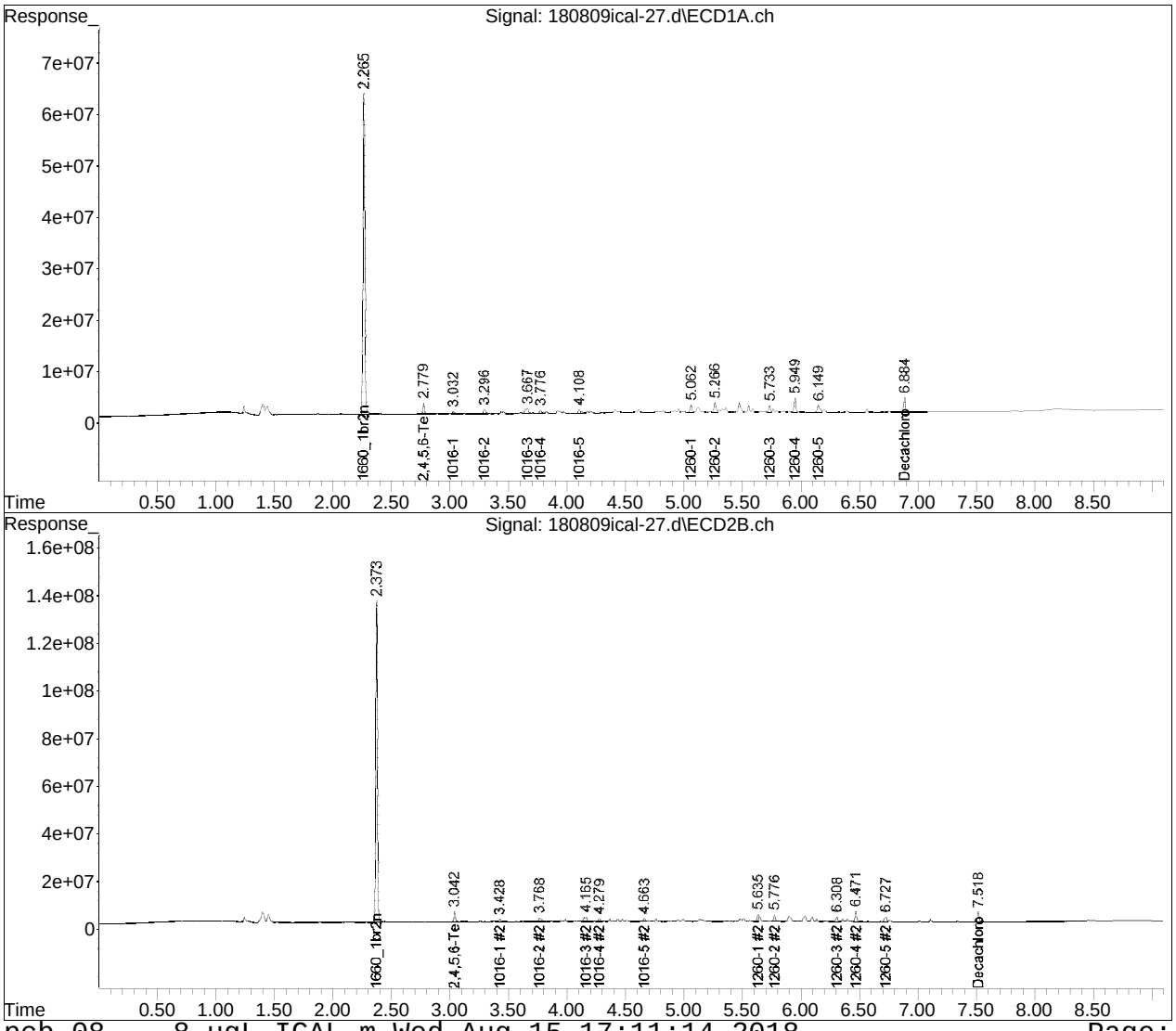
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-27.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 2:47 pm
Operator : pest16:jw
Sample : il11660,42e,,8761
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:24:47 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:21:16 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

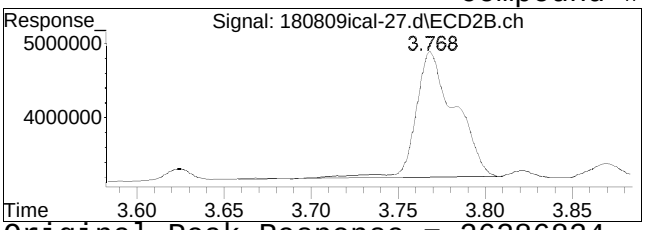


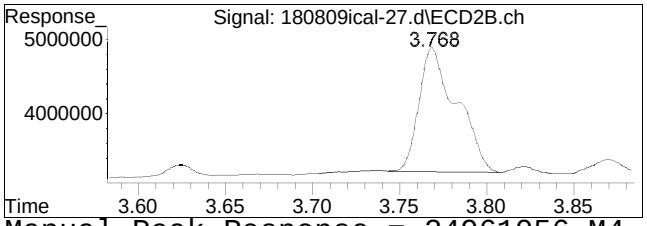
Manual Integration Report

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-27.d
Date Inj'd : 8/9/2018 2:47 pm
Sample : il11660,42e,,8761

QMethod : P16_pcb_08_09i_18_ugL_IC
Operator : pest16:jw
Instrument : PEST16
Quant Date : 8/15/2018 11:21 am

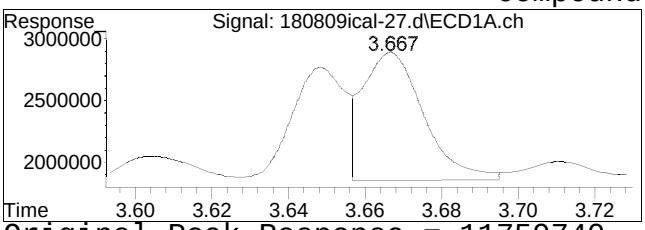
Compound #56: 1016-2 #2

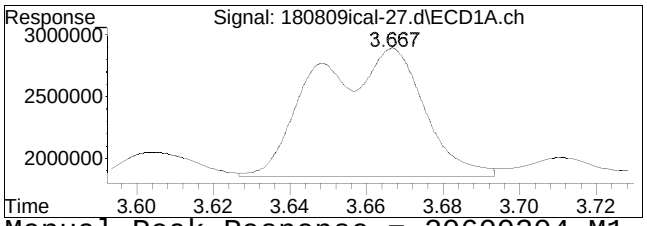




Original Peak Response = 26286834 Manual Peak Response = 24961056 M4
M4 = Poor automated baseline construction.

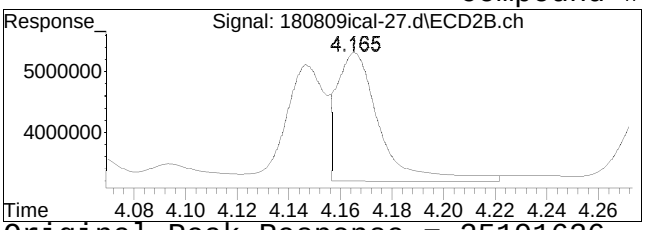
Compound #6: 1016-3

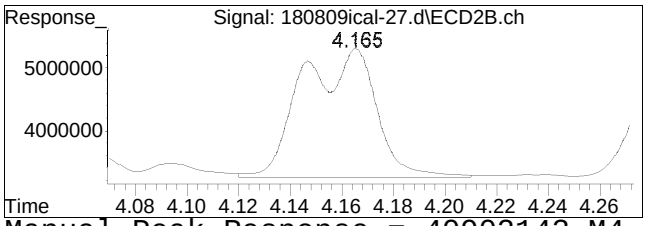




Original Peak Response = 11759740 Manual Peak Response = 20600304 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

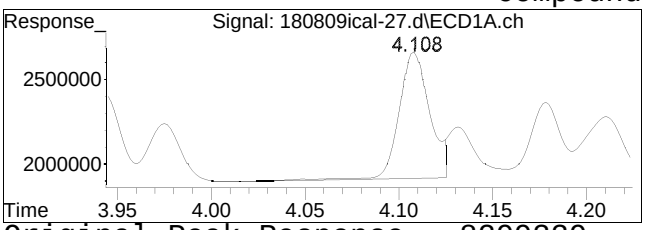
Compound #57: 1016-3 #2

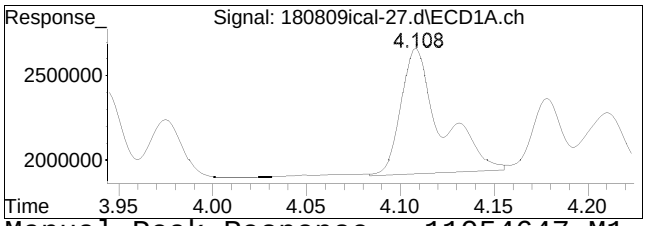




Original Peak Response = 25191636 Manual Peak Response = 40902143 M4
M4 = Poor automated baseline construction.

Compound #8: 1016-5





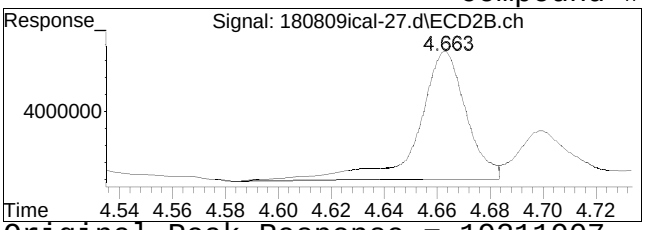
Original Peak Response = 8299339 Manual Peak Response = 11054647 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

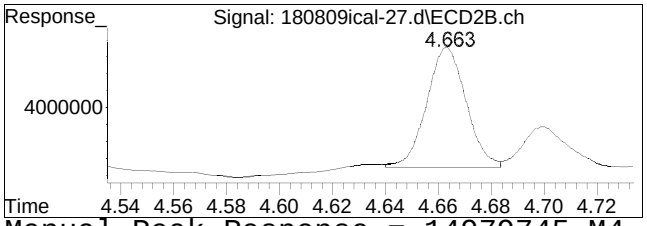
Manual Integration Report

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-27.d
Date Inj'd : 8/9/2018 2:47 pm
Sample : il11660,42e,,8761

QMethod : P16_pcb_08_09i_18_ugL_IC
Operator : pest16:jw
Instrument : PEST16
Quant Date : 8/15/2018 11:21 am

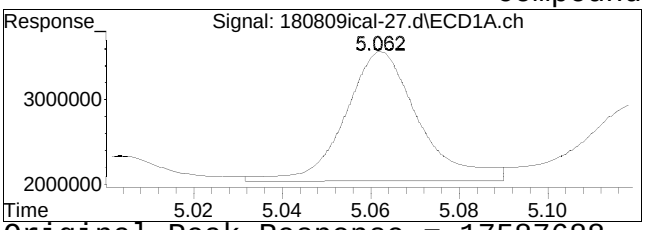
Compound #59: 1016-5 #2

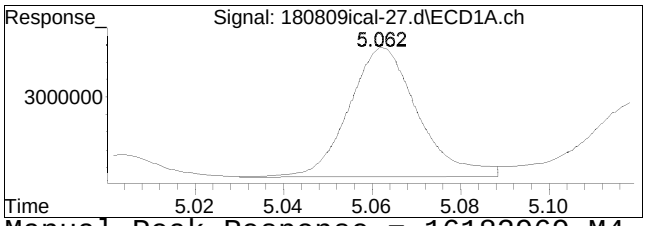




Original Peak Response = 19211907 Manual Peak Response = 14979745 M4
M4 = Poor automated baseline construction.

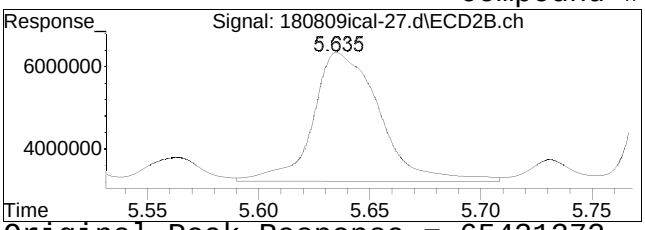
Compound #9: 1260-1

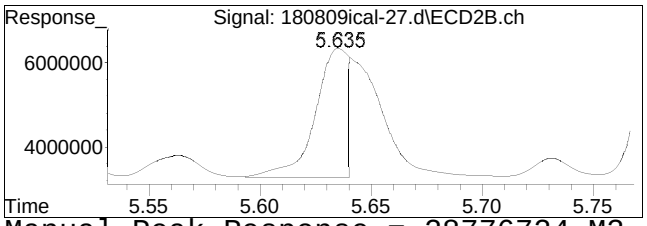




Original Peak Response = 17587688 Manual Peak Response = 16182969 M4
M4 = Poor automated baseline construction.

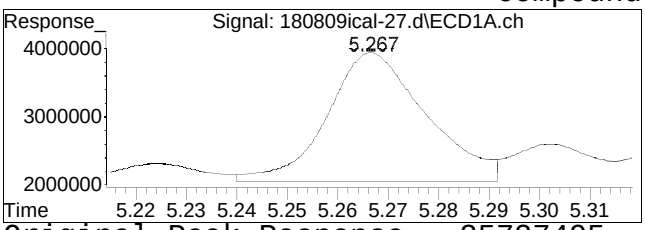
Compound #60: 1260-1 #2

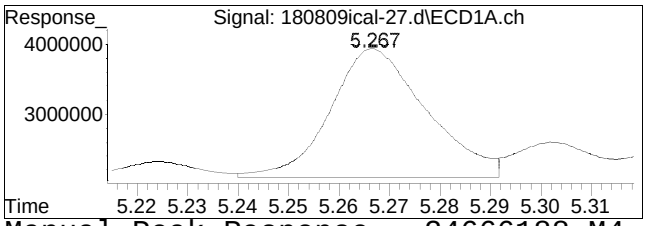




Original Peak Response = 65431372 Manual Peak Response = 28776724 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Compound #10: 1260-2





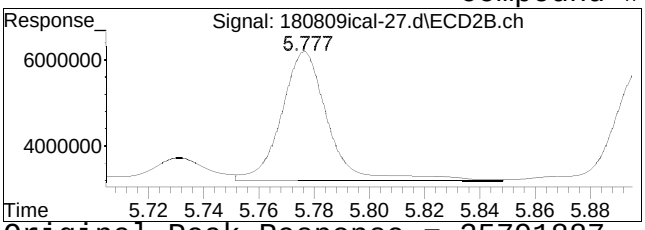
Original Peak Response = 25727495 Manual Peak Response = 24666188 M4
M4 = Poor automated baseline construction.

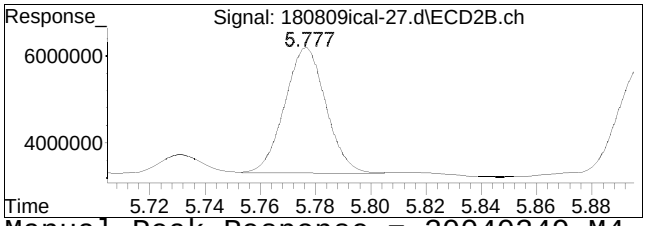
Manual Integration Report

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-27.d
Date Inj'd : 8/9/2018 2:47 pm
Sample : il11660,42e,,8761

QMethod : P16_pcb_08_09i_18_ugL_IC
Operator : pest16:jw
Instrument : PEST16
Quant Date : 8/15/2018 11:21 am

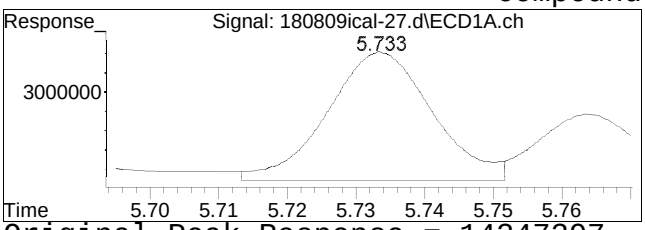
Compound #61: 1260-2 #2

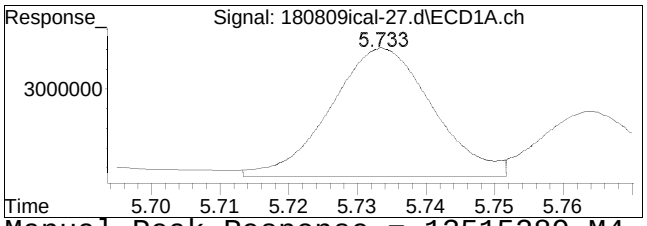




Original Peak Response = 35791887 Manual Peak Response = 30040349 M4
M4 = Poor automated baseline construction.

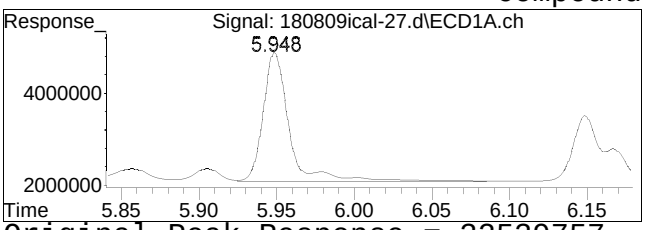
Compound #11: 1260-3

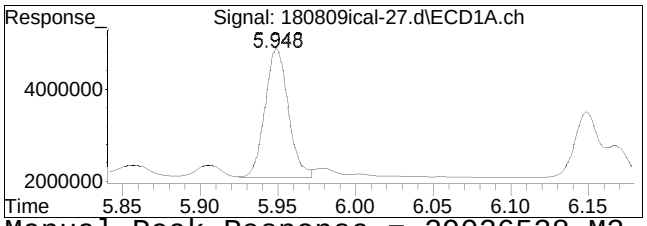




Original Peak Response = 14247397 Manual Peak Response = 13515289 M4
M4 = Poor automated baseline construction.

Compound #12: 1260-4





Original Peak Response = 32539757 Manual Peak Response = 29026538 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-28.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 3:00 pm
Operator : pest16:jw
Sample : il21660,42e,,8760
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:26:20 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:24:53 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	2.266	2.373	601.9E6	1221.5E6	250.000	250.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-T...	2.778	3.042	92609230	186.5E6	30.384M4	30.982
	Spiked Amount 500.000	Range 30 - 150		Recovery =		6.08%#	6.20%#
3) s	Decachlor...	6.884	7.516	134.9E6	198.1E6	61.060	60.718
	Spiked Amount 500.000	Range 30 - 150		Recovery =		12.21%#	12.14%#
	Target Compounds						
4) l1	1016-1	3.032	3.428	23298315	49988763	528.238M3	515.554
5) l1	1016-2	3.296	3.768	53883403	111.0E6	509.386M3	521.705
6) l1	1016-3	3.666	4.164	92034766	184.8E6	494.903	500.157M1
7) l1	1016-4	3.776	4.278	40383007	73425608	500.484	497.372
8) l1	1016-5	4.108	4.662	46409769	66573054	486.284	512.769
	Sum 1016-1			256.0E6	485.8E6	2519.295	2547.558
	Average 1016-1					503.859	509.512
9) l2	1260-1	5.062	5.632	67540357	123.8E6	489.439	535.554
10) l2	1260-2	5.266	5.775	98228310	125.5E6	479.657M3	484.842
11) l2	1260-3	5.732	6.307	61582467	100.5E6	475.259M3	463.469
12) l2	1260-4	5.948	6.470	133.3E6	208.5E6	480.365M3	470.103
13) l2	1260-5	6.149	6.726	94073323	138.3E6	480.416	477.069
	Sum 1260-1			454.7E6	696.7E6	NoCal	NoCal
	Average 1260-1					481.027	486.207
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-28.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 3:00 pm
Operator : pest16:jw
Sample : il21660,42e,,8760
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:26:20 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:24:53 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Sum 1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1248-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-28.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 3:00 pm
Operator : pest16:jw
Sample : il21660,42e,,8760
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:26:20 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:24:53 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

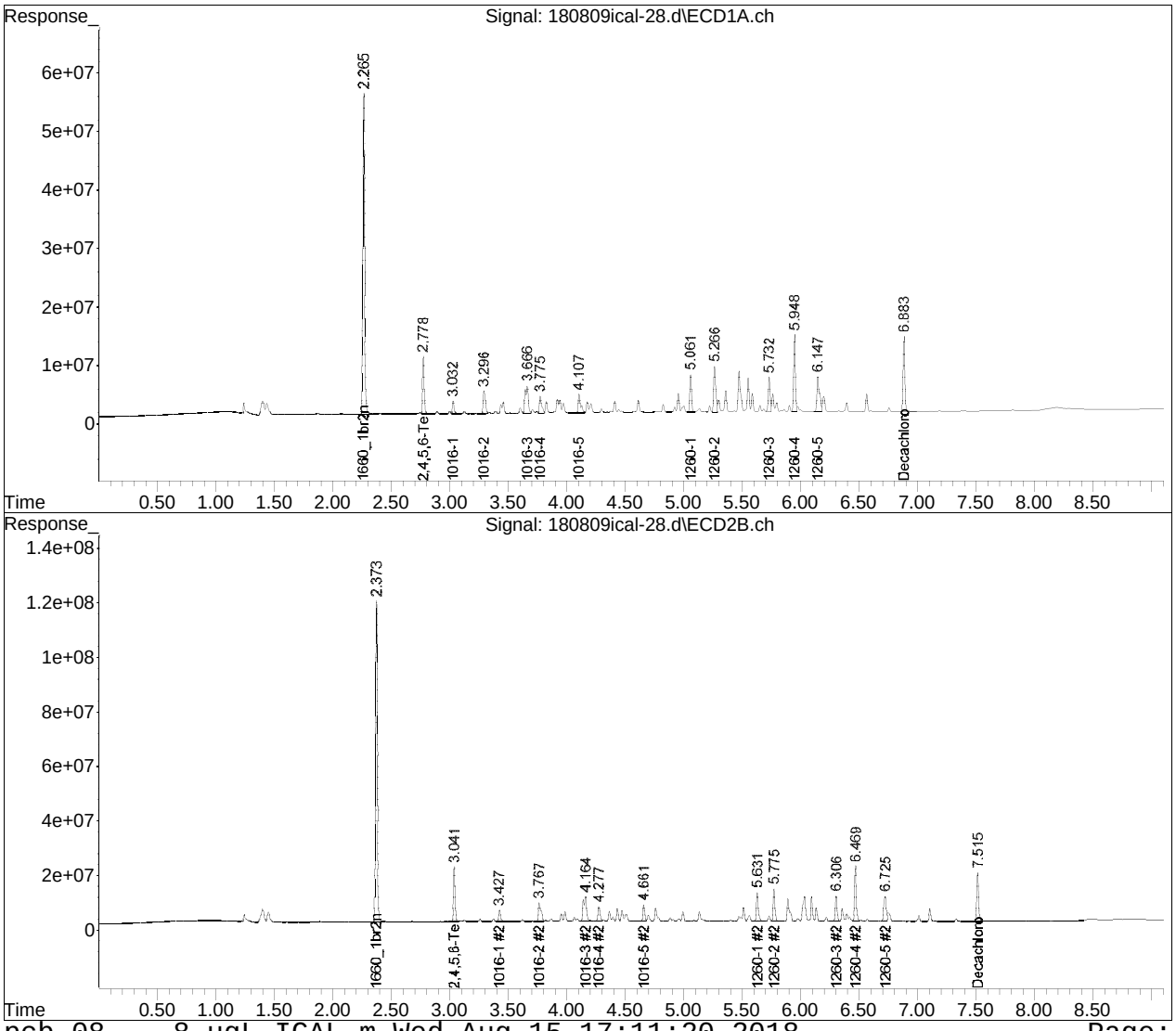
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-28.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 3:00 pm
Operator : pest16:jw
Sample : il21660,42e,,8760
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:26:20 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:24:53 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

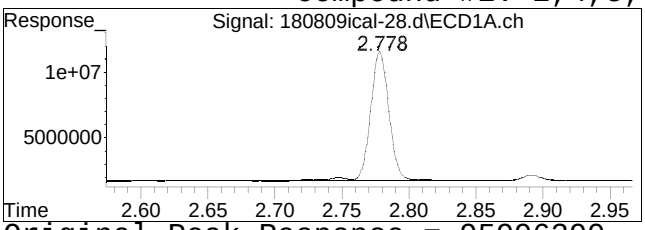


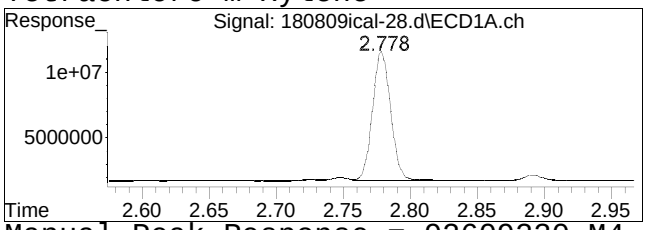
Manual Integration Report

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-28.d
Date Inj'd : 8/9/2018 3:00 pm
Sample : il21660,42e,,8760

QMethod : P16_pcb_08_09i_18_ugL_IC
Operator : pest16:jw
Instrument : PEST16
Quant Date : 8/15/2018 11:25 am

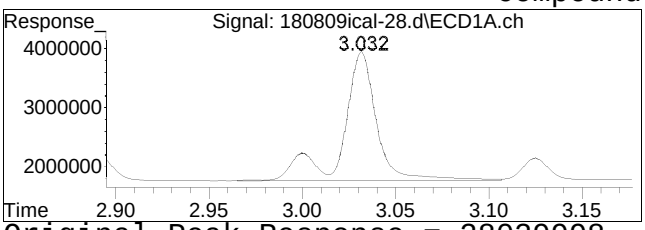
Compound #2: 2,4,5,6-Tetrachloro-m-xylene

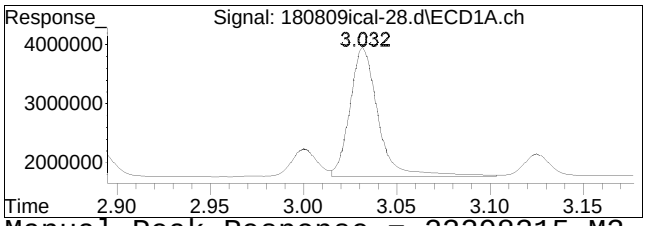




Original Peak Response = 95996390 Manual Peak Response = 92609230 M4
M4 = Poor automated baseline construction.

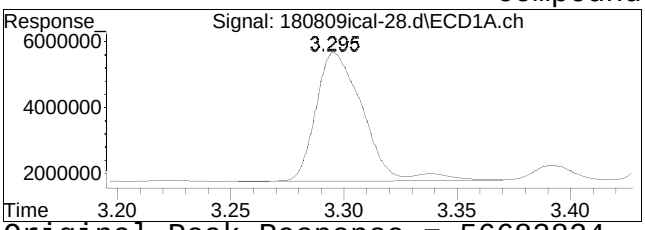
Compound #4: 1016-1

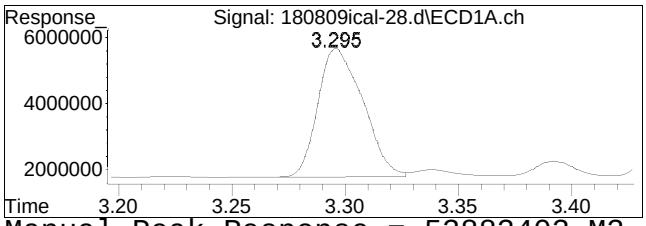




Original Peak Response = 28029998 Manual Peak Response = 23298315 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

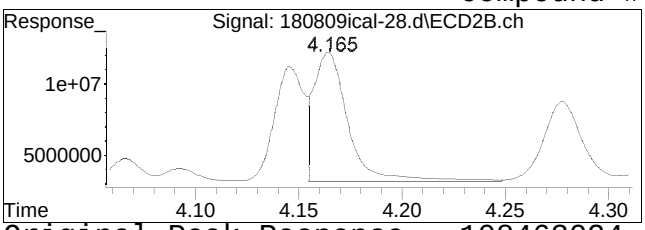
Compound #5: 1016-2

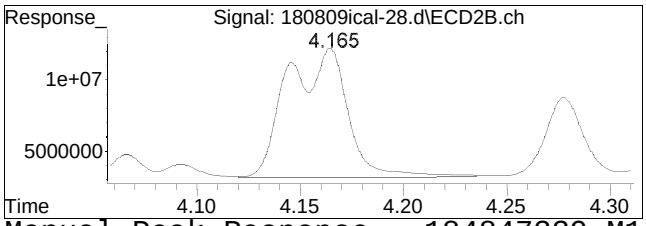




Original Peak Response = 56683824 Manual Peak Response = 53883403 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Compound #57: 1016-3 #2



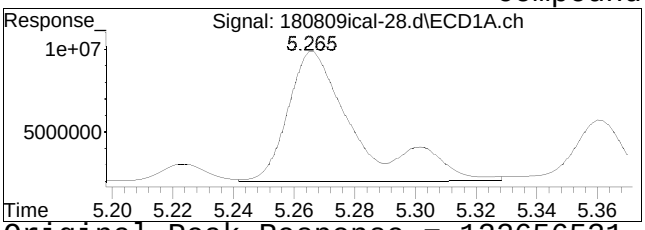


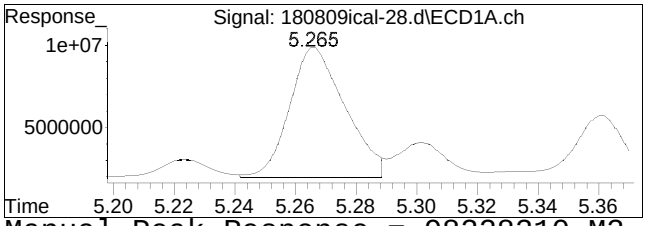
Original Peak Response = 108463024 Manual Peak Response = 184847339 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path : I:\Pest16\180809ICAL\ QMethod : P16_pcb_08_09i_18_ugL_IC
Data File : 180809ical-28.d Operator : pest16:jw
Date Inj'd : 8/9/2018 3:00 pm Instrument : PEST16
Sample : il21660,42e,,8760 Quant Date : 8/15/2018 11:25 am

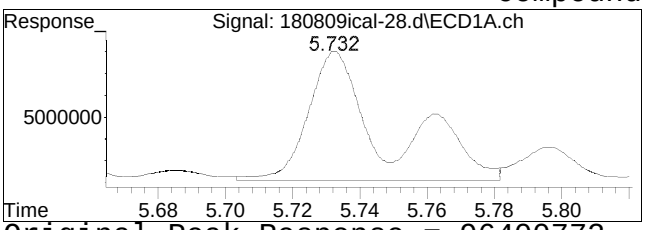
Compound #10: 1260-2

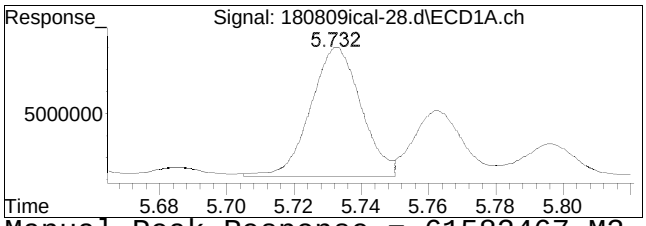




Original Peak Response = 122656531 Manual Peak Response = 98228310 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

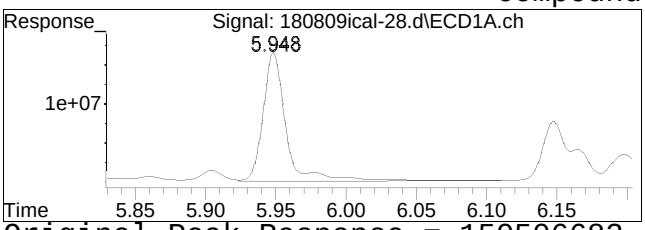
Compound #11: 1260-3

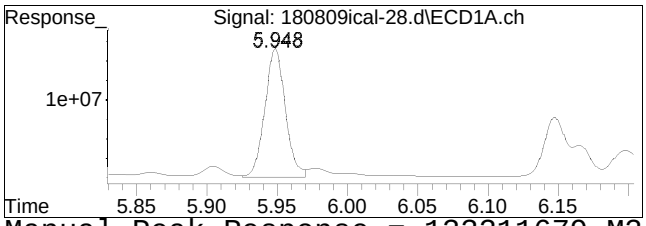




Original Peak Response = 96400772 Manual Peak Response = 61582467 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Compound #12: 1260-4





Original Peak Response = 150506682 Manual Peak Response = 133311679 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-29.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 3:13 pm
Operator : pest16:jw
Sample : il31660,42e,,8759
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:20:23 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:16:05 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	2.268	2.375	569.2E6	1147.3E6	250.000	250.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-T...	2.781	3.044	186.3E6	368.7E6	62.593	64.716
	Spiked Amount 500.000	Range 30 - 150		Recovery =		12.52%#	12.94%#
3) s	Decachlor...	6.887	7.519	269.0E6	385.8E6	127.346	126.388
	Spiked Amount 500.000	Range 30 - 150		Recovery =		25.47%#	25.28%#
	Target Compounds						
4) l1	1016-1	3.034	3.430	42905103	92166675	1058.980	1080.525
5) l1	1016-2	3.299	3.769	101.9E6	209.2E6	1054.846	1085.439
6) l1	1016-3	3.668	4.165	172.7E6	351.5E6	972.309M1	1016.967M1
7) l1	1016-4	3.778	4.280	76818815	139.7E6	1006.408	1047.346
8) l1	1016-5	4.109	4.663	90064589	127.5E6	1008.541M1	1077.004
	Sum 1016-1			484.4E6	920.0E6	5101.085	5307.280
Average	1016-1					1020.217	1061.456
9) l2	1260-1	5.063	5.633	129.5E6	217.5E6	1005.114	1046.607
10) l2	1260-2	5.269	5.777	191.1E6	242.6E6	1007.602	1013.276
11) l2	1260-3	5.735	6.309	124.6E6	198.0E6	999.399	1008.054
12) l2	1260-4	5.951	6.472	267.0E6	414.5E6	1000.835	990.695
13) l2	1260-5	6.150	6.728	184.5E6	268.9E6	979.233	979.634
	Sum 1260-1			896.6E6	1341.5E6	NoCal	NoCal
Average	1260-1					998.436	1007.653
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-29.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 3:13 pm
Operator : pest16:jw
Sample : il31660,42e,,8759
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:20:23 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:16:05 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-29.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 3:13 pm
Operator : pest16:jw
Sample : il31660,42e,,8759
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:20:23 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:16:05 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

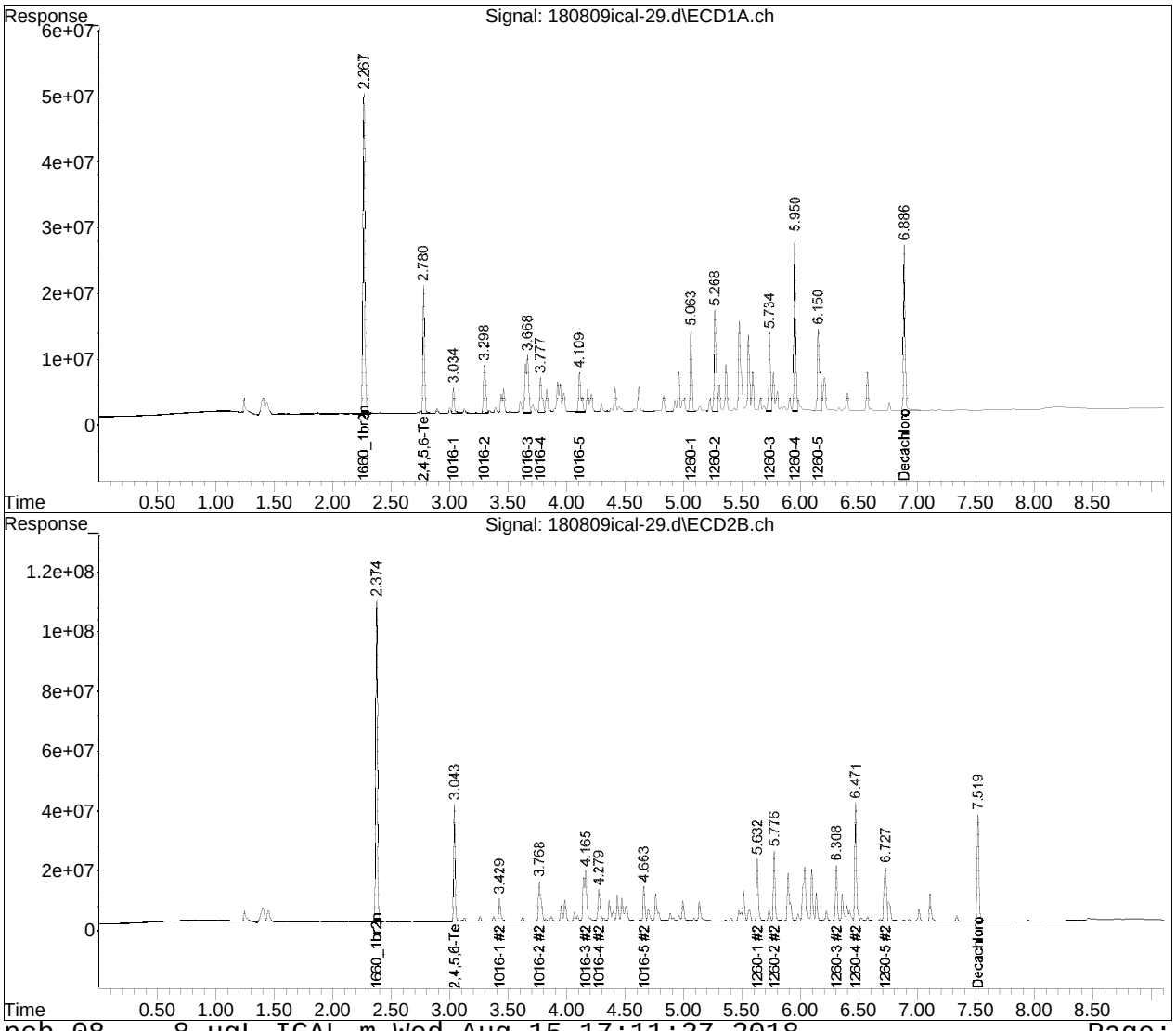
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-29.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 3:13 pm
Operator : pest16:jw
Sample : il31660,42e,,8759
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:20:23 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:16:05 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

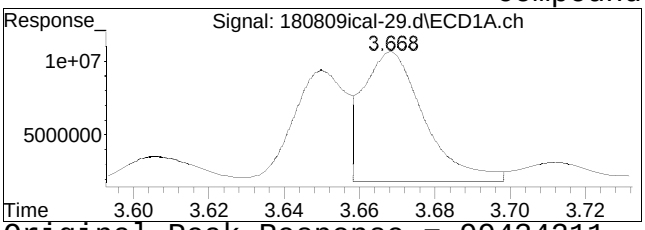


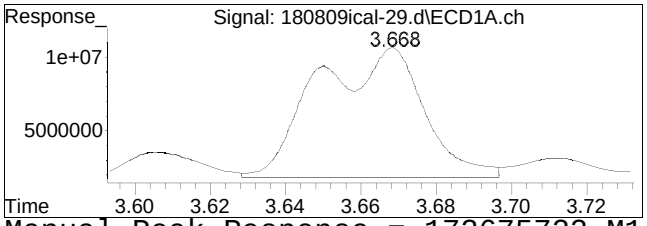
Manual Integration Report

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-29.d
Date Inj'd : 8/9/2018 3:13 pm
Sample : il31660,42e,,8759

QMethod : P16_pcb_08_09i_18_ugL_IC
Operator : pest16:jw
Instrument : PEST16
Quant Date : 8/15/2018 11:16 am

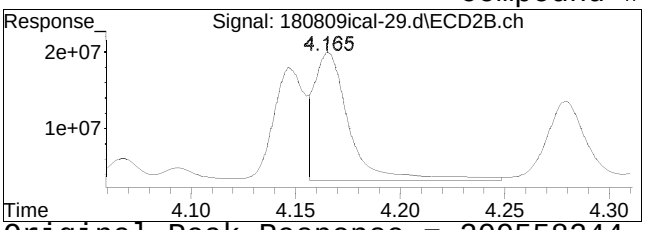
Compound #6: 1016-3

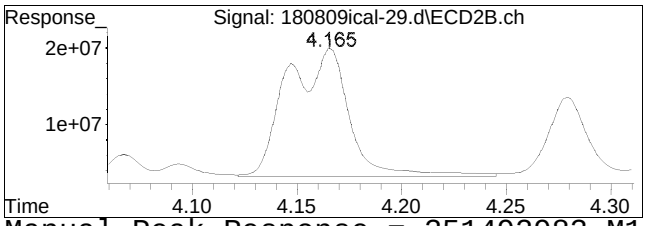




Original Peak Response = 99434211 Manual Peak Response = 172675722 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

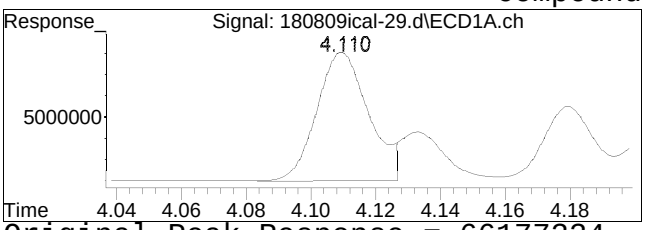
Compound #57: 1016-3 #2

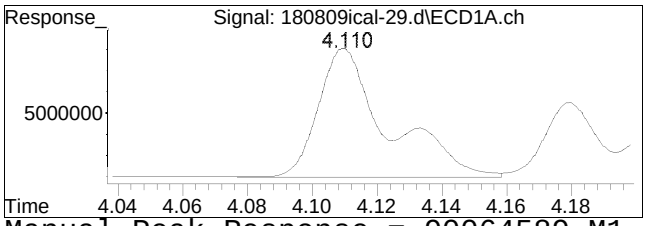




Original Peak Response = 209558244 Manual Peak Response = 351492983 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Compound #8: 1016-5





Original Peak Response = 66177334 Manual Peak Response = 90064589 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-30.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 3:26 pm
Operator : pest16:jw
Sample : il41660,42e,,8758
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:04:34 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:02:17 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	2.267	2.374	610.2E6	1239.3E6	250.000	250.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-T...	2.780	3.043	513.9E6	975.3E6	NoCal	NoCal
Spiked Amount	500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
3) s	Decachlor...	6.885	7.517	719.0E6	1024.6E6	NoCal	NoCal
Spiked Amount	500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	3.034	3.429	110.3E6	233.5E6	NoCal	NoCal
5) l1	1016-2	3.299	3.769	270.2E6	525.4E6	NoCal	NoCal
6) l1	1016-3	3.667	4.165	469.0E6	927.3E6	NoCal	NoCal M1
7) l1	1016-4	3.778	4.279	203.5E6	358.1E6	NoCal	NoCal
8) l1	1016-5	4.110	4.663	239.5E6	321.3E6	NoCal	NoCal
Sum	1016-1			0	0	N.D.	N.D.
Average	1016-1					0.000	0.000
9) l2	1260-1	5.063	5.632	344.4E6	554.0E6	NoCal	NoCal
10) l2	1260-2	5.267	5.776	508.1E6	631.5E6	NoCal M3	NoCal
11) l2	1260-3	5.733	6.308	326.4E6	515.8E6	NoCal M3	NoCal
12) l2	1260-4	5.949	6.471	713.7E6	1104.1E6	NoCal M4	NoCal
13) l2	1260-5	6.150	6.726	495.7E6	723.1E6	NoCal	NoCal
Sum	1260-1			0	0	N.D.	N.D.
Average	1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-30.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 3:26 pm
Operator : pest16:jw
Sample : il41660,42e,,8758
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:04:34 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:02:17 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Sum 1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1248-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-30.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 3:26 pm
Operator : pest16:jw
Sample : il41660,42e,,8758
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:04:34 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:02:17 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

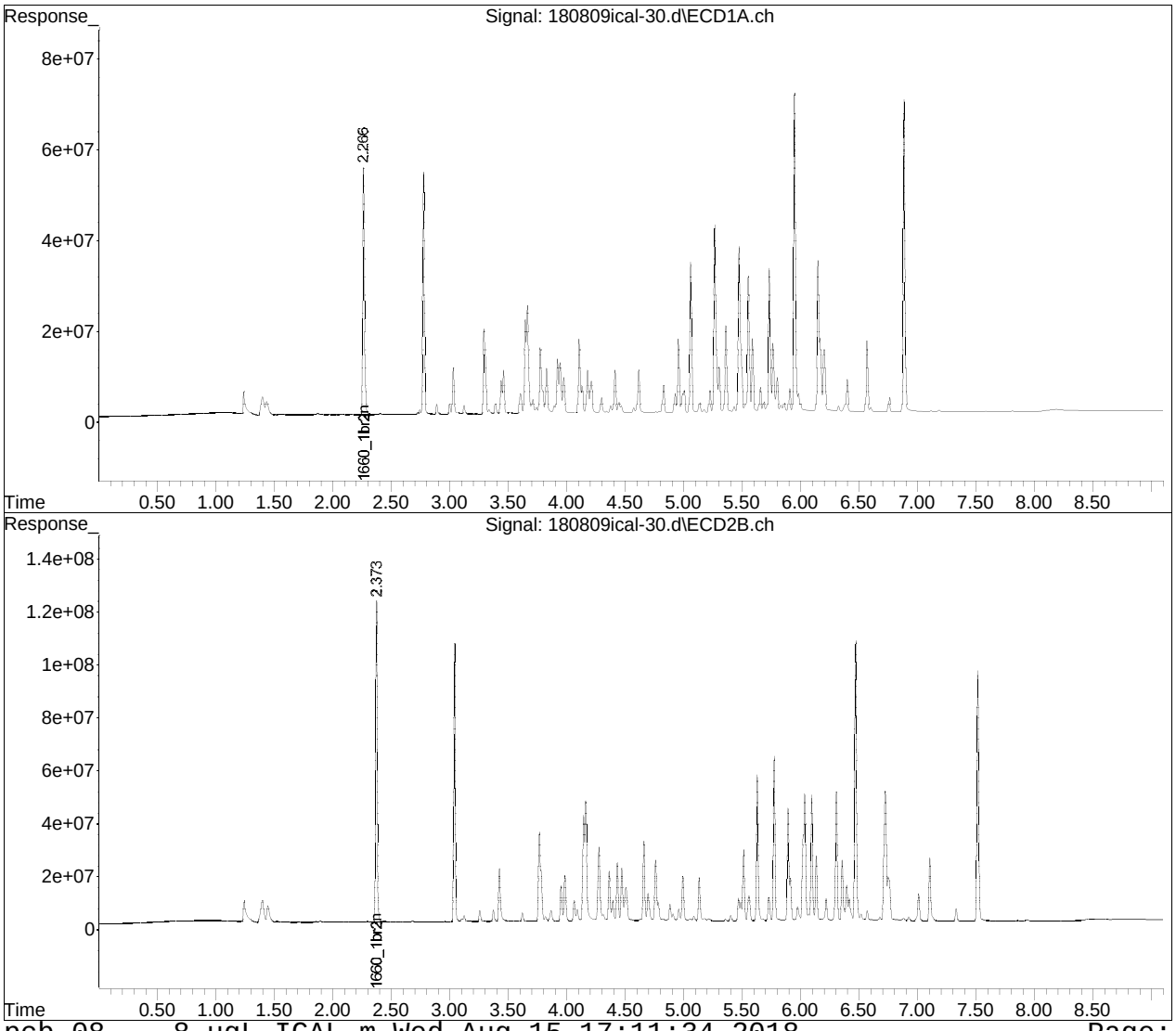
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-30.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 3:26 pm
Operator : pest16:jw
Sample : il41660,42e,,8758
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:04:34 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:02:17 2018
Response via : Initial Calibration
Integrator: ChemStation

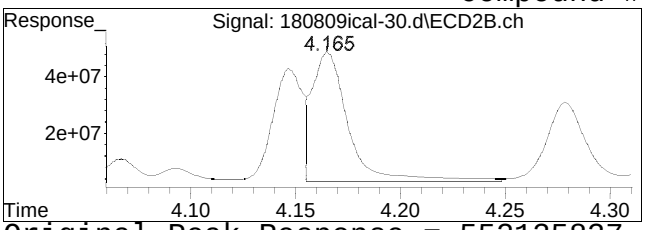
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

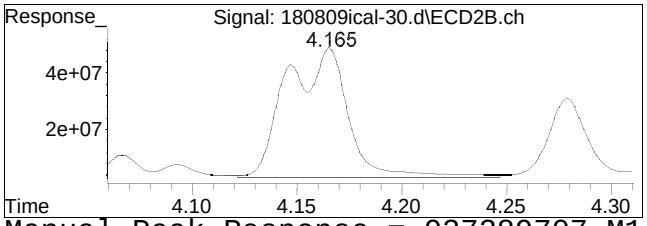


Manual Integration Report

Data Path : I:\Pest16\180809ICAL\ QMethod : P16_pcb_08_09i_18_ugL_IC
Data File : 180809ical-30.d Operator : pest16:jw
Date Inj'd : 8/9/2018 3:26 pm Instrument : PEST16
Sample : il41660,42e,,8758 Quant Date : 8/15/2018 11:02 am

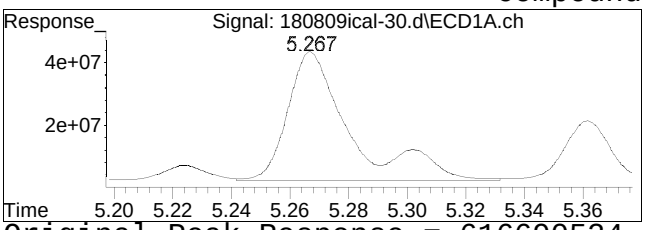
Compound #57: 1016-3 #2

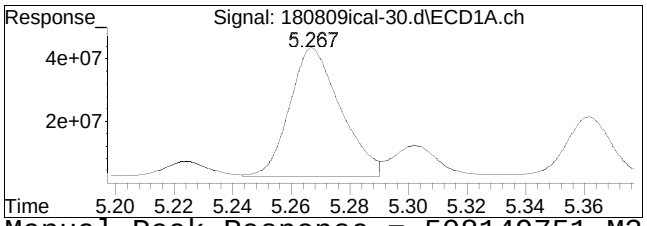




Original Peak Response = 552135837 Manual Peak Response = 927289707 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

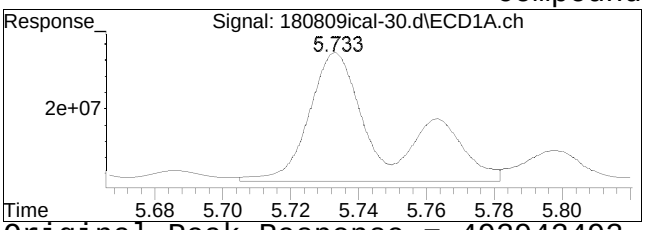
Compound #10: 1260-2

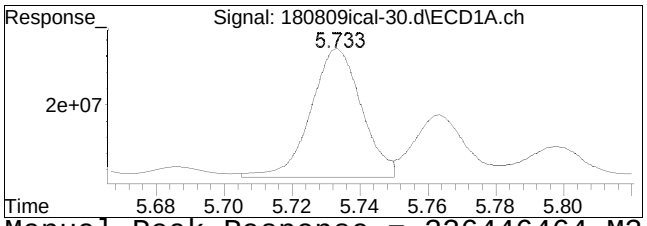




Original Peak Response = 616690524 Manual Peak Response = 508149751 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

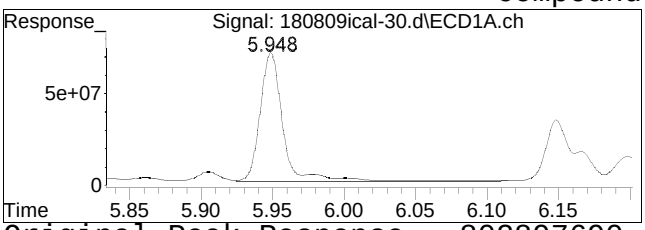
Compound #11: 1260-3

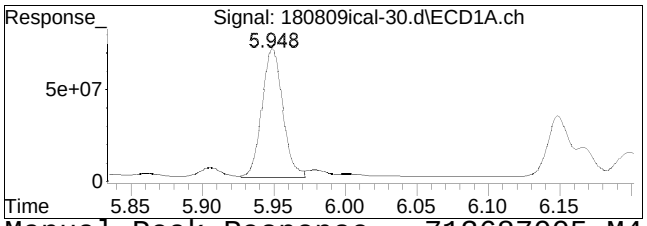




Original Peak Response = 493943493 Manual Peak Response = 326446464 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Compound #12: 1260-4





Original Peak Response = 802897690 Manual Peak Response = 713687005 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-31.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 3:39 pm
Operator : pest16:jw
Sample : il51660,42e,,8757
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:10:13 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:05:27 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	2.267	2.374	600.8E6	1211.0E6	250.000	250.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-T...	2.780	3.043	990.4E6	1895.3E6	313.212	318.172
	Spiked Amount 500.000	Range 30 - 150		Recovery =		62.64%	63.63%
3) s	Decachlor...	6.887	7.520	1397.4E6	2004.5E6	631.637	640.674
	Spiked Amount 500.000	Range 30 - 150		Recovery =		126.33%	128.13%
	Target Compounds						
4) l1	1016-1	3.034	3.429	209.7E6	436.4E6	4830.126	4781.073
5) l1	1016-2	3.298	3.769	495.0E6	996.5E6	4651.099	4852.264
6) l1	1016-3	3.668	4.166	959.9E6	1801.9E6	5196.164M1	4971.456M1
7) l1	1016-4	3.777	4.279	400.0E6	694.5E6	4991.261	4961.802
8) l1	1016-5	4.109	4.663	448.8E6	605.1E6	4756.894M1	4817.813
	Sum 1016-1			2513.4E6	4534.4E6	24425.544	24384.407
Average	1016-1					4885.109	4876.881
9) l2	1260-1	5.064	5.633	668.2E6	1071.5E6	4925.576	4948.353
10) l2	1260-2	5.269	5.777	983.7E6	1237.6E6	4915.454	5013.753
11) l2	1260-3	5.735	6.309	647.7E6	1011.5E6	5037.553	5016.911
12) l2	1260-4	5.949	6.472	1394.5E6	2164.4E6	4961.359M3	5015.198
13) l2	1260-5	6.150	6.728	974.2E6	1408.5E6	4990.676	4983.437
	Sum 1260-1			4668.3E6	6893.7E6	NoCal	NoCal
Average	1260-1					4966.124	4995.530
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-31.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 3:39 pm
Operator : pest16:jw
Sample : il51660,42e,,8757
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:10:13 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:05:27 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-31.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 3:39 pm
Operator : pest16:jw
Sample : il51660,42e,,8757
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:10:13 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:05:27 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

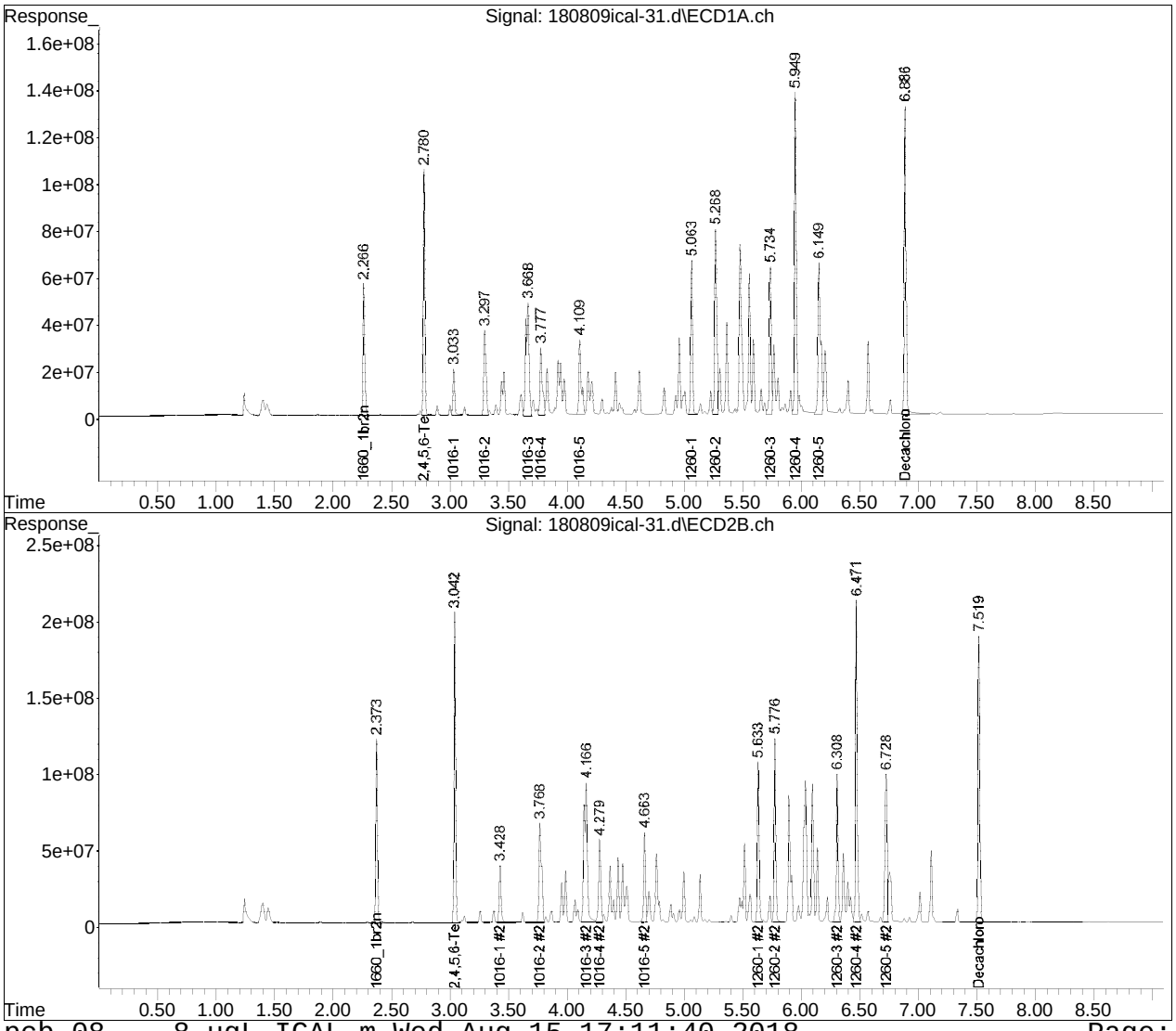
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-31.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 3:39 pm
Operator : pest16:jw
Sample : il51660,42e,,8757
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:10:13 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:05:27 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

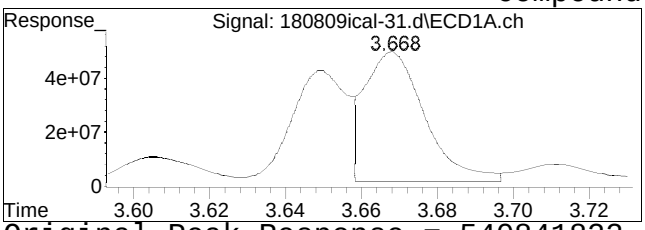


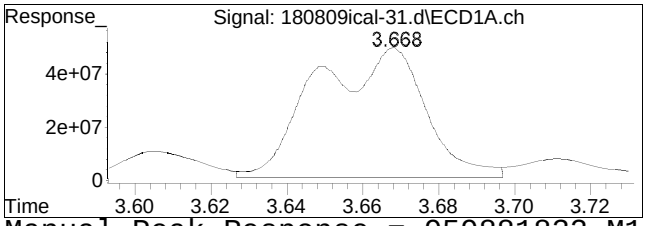
Manual Integration Report

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-31.d
Date Inj'd : 8/9/2018 3:39 pm
Sample : il51660,42e,,8757

QMethod : P16_pcb_08_09i_18_ugL_IC
Operator : pest16:jw
Instrument : PEST16
Quant Date : 8/15/2018 11:05 am

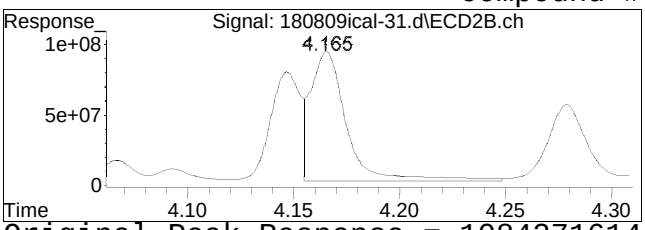
Compound #6: 1016-3

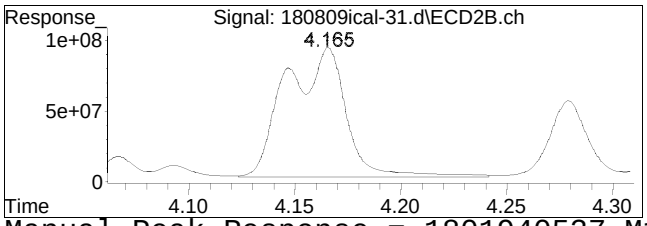




Original Peak Response = 540841822 Manual Peak Response = 959881832 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

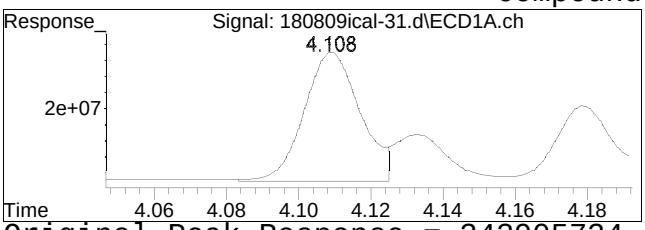
Compound #57: 1016-3 #2

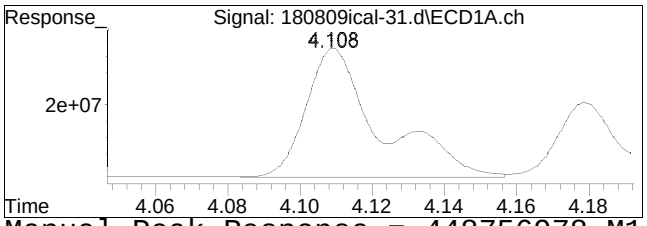




Original Peak Response = 1084271614 Manual Peak Response = 1801940537 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

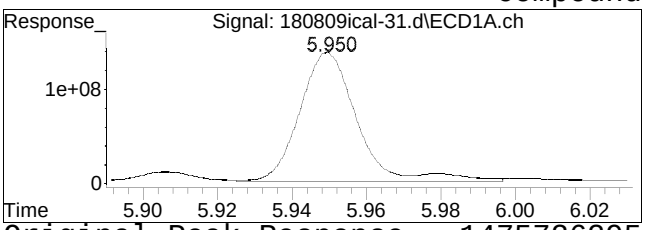
Compound #8: 1016-5

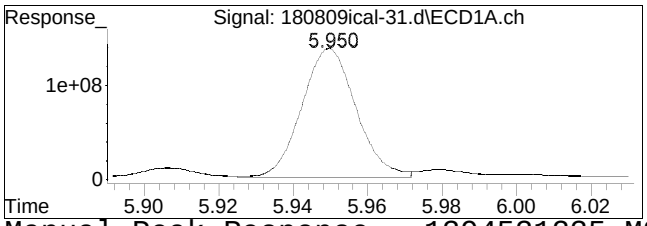




Original Peak Response = 343905734 Manual Peak Response = 448756978 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Compound #12: 1260-4





Original Peak Response = 1475726295 Manual Peak Response = 1394531235 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-32.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 3:52 pm
Operator : pest16:jw
Sample : il61660,42e,,8756
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:11:38 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:10:21 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	2.266	2.374	580.4E6	1164.3E6	250.000	250.000
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-T...	2.779	3.043	1957.5E6	3791.3E6	647.713	663.917
	Spiked Amount 500.000	Range 30 - 150		Recovery =		129.54%	132.78%
3) s	Decachlor...	6.884	7.518	2835.2E6	4190.8E6	1335.434	1392.482
	Spiked Amount 500.000	Range 30 - 150		Recovery =		267.09%#	278.50%#
	Target Compounds						
4) l1	1016-1	3.032	3.429	414.7E6	879.9E6	10058.145	10250.052
5) l1	1016-2	3.297	3.768	971.6E6	1975.8E6	9793.049	10157.223
6) l1	1016-3	3.666	4.165	1793.9E6	3572.4E6	9859.712M1	10281.039M1
7) l1	1016-4	3.777	4.279	787.9E6	1379.8E6	10185.604	10293.095
8) l1	1016-5	4.107	4.662	953.6E6	1232.3E6	10724.978M1	10395.360
	Sum 1016-1			4921.7E6	9040.2E6	50621.488	51376.769
	Average 1016-1					10124.298	10275.354
9) l2	1260-1	5.062	5.632	1339.4E6	2185.6E6	10298.128	10552.718
10) l2	1260-2	5.267	5.776	1968.8E6	2534.5E6	10270.783	10664.933
11) l2	1260-3	5.734	6.308	1320.7E6	2095.1E6	10594.689	10790.099
12) l2	1260-4	5.948	6.471	2751.1E6	4425.6E6	10171.666M1	10649.759
13) l2	1260-5	6.149	6.727	1994.5E6	2930.1E6	10586.957	10800.853
	Sum 1260-1			9374.5E6	14171.0E6	NoCal	NoCal
	Average 1260-1					10384.445	10691.673

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-32.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 3:52 pm
Operator : pest16:jw
Sample : il61660,42e,,8756
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:11:38 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:10:21 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
15)	l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16)	l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17)	l3 1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18)	l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19)	l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20)	l4 1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21)	l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22)	l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24)	l6 1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25)	l6 1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26)	l6 1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27)	l6 1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28)	l6 1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29)	l9 1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l9 1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31)	l9 1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32)	l9 1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33)	l9 1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35)	l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36)	l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37)	l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-32.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 3:52 pm
Operator : pest16:jw
Sample : il61660,42e,,8756
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:11:38 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:10:21 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
38)	l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39)	l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41)	l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42)	l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43)	l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44)	l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45)	l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46)	l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47)	l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48)	l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49)	l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50)	l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

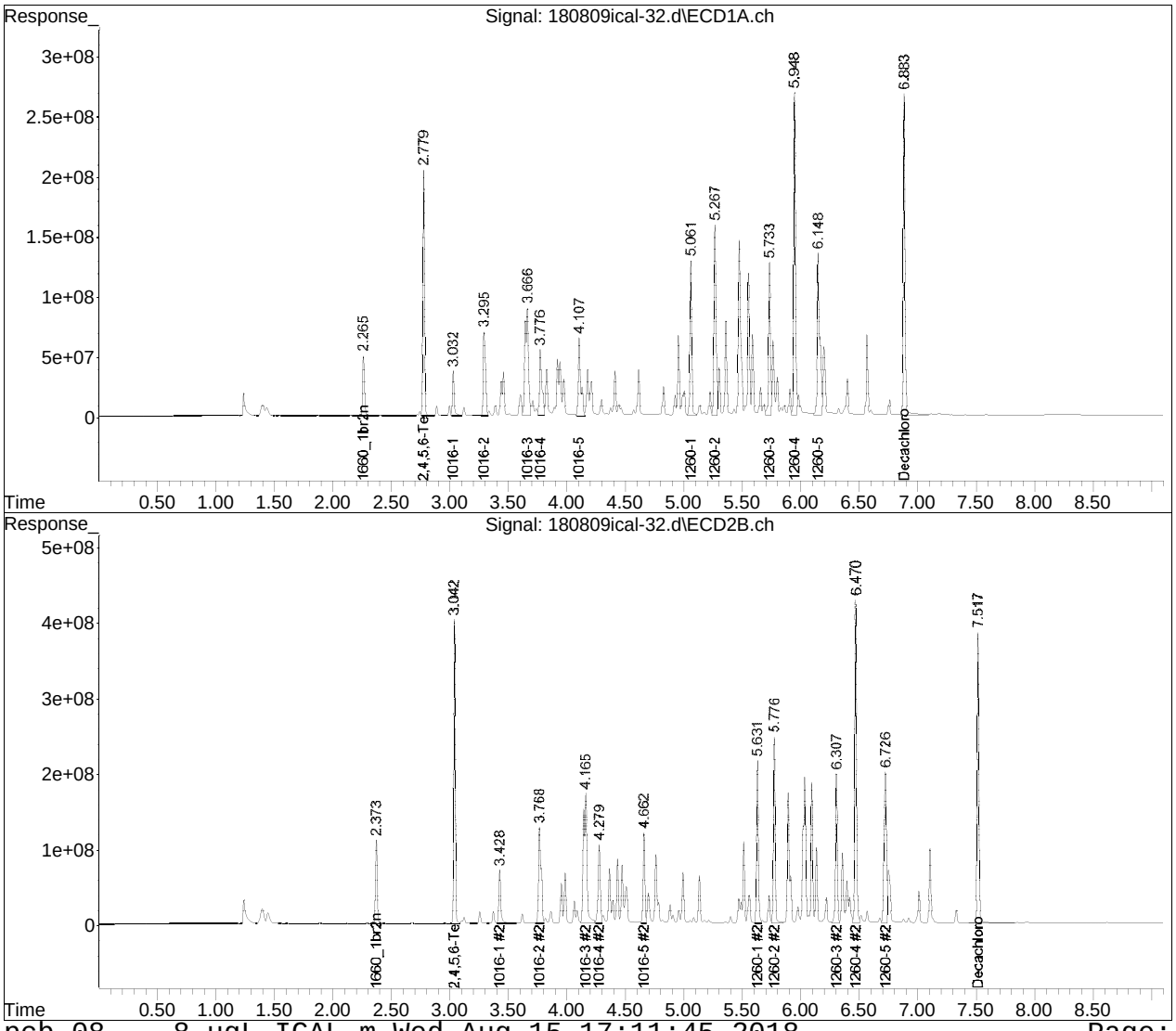
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-32.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 3:52 pm
Operator : pest16:jw
Sample : il61660,42e,,8756
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:11:38 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:10:21 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

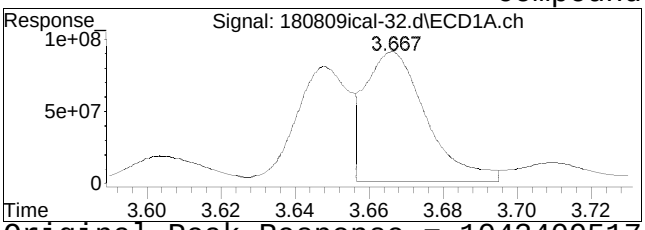


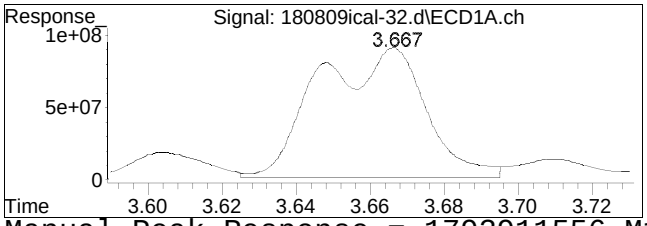
Manual Integration Report

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-32.d
Date Inj'd : 8/9/2018 3:52 pm
Sample : il61660,42e,,8756

QMethod : P16_pcb_08_09i_18_ugL_IC
Operator : pest16:jw
Instrument : PEST16
Quant Date : 8/15/2018 11:10 am

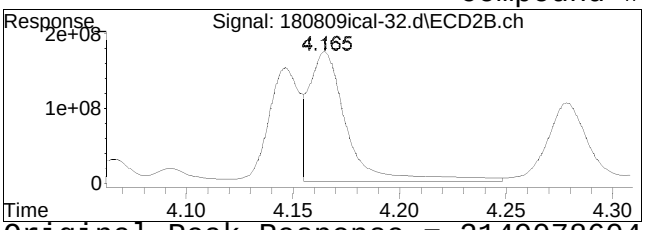
Compound #6: 1016-3

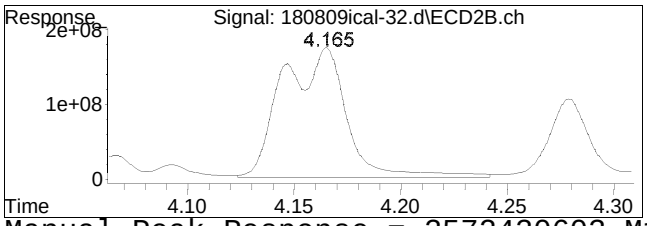




Original Peak Response = 1043409517 Manual Peak Response = 1793911556 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

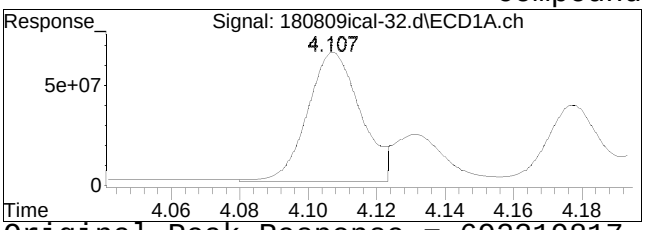
Compound #57: 1016-3 #2

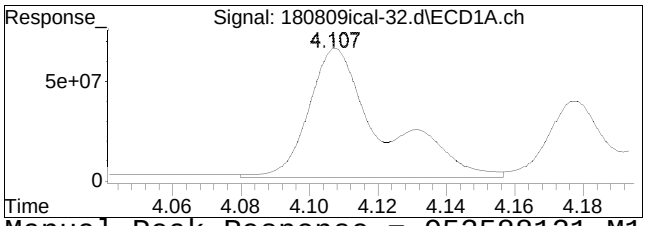




Original Peak Response = 2149078604 Manual Peak Response = 3572430603 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

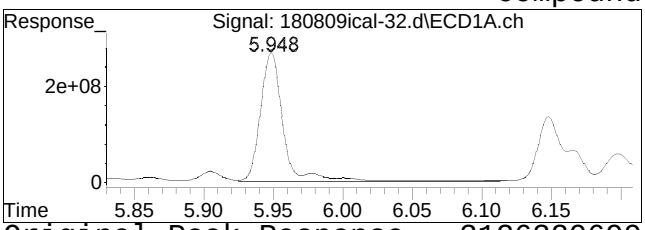
Compound #8: 1016-5

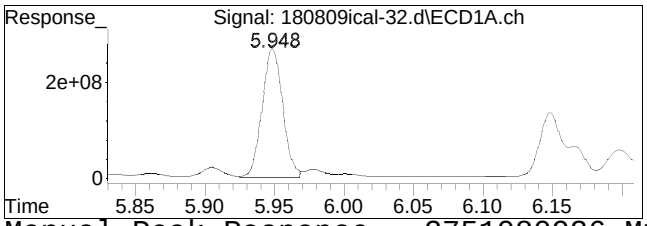




Original Peak Response = 692219817 Manual Peak Response = 953588121 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Compound #12: 1260-4





Original Peak Response = 3126329699 Manual Peak Response = 2751080926 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-33.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 9 Aug 2018   4:05 pm
Operator : pest16:jw
Sample   : cicv4268,42e,,8848
Misc   : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 33   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:46:41 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:44:49 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	250.000	250.000	0.0	89	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen	160.000	184.283	-15.2	98	0.00
3	s	Decachlorobiphenyl	320.000	598.190	-86.9#	165	0.00
14	i	2154_1br2nb	250.000	250.000	0.0	92	0.00
23	i	4268_1br2nb	250.000	250.000	0.0	102	0.00
24	l6	1242-1	2500.000	2385.335	4.6	95	0.00
25	l6	1242-2	2500.000	2383.614	4.7	94	0.00
26	l6	1242-3	2500.000	2587.058	-3.5	102	0.00
27	l6	1242-4	2500.000	2467.607	1.3	95	0.00
28	l6	1242-5	2500.000	2463.123	1.5	105	0.00
29	l9	1268-1	2500.000	2501.524	-0.1	92	0.00
30	l9	1268-2	2500.000	2249.858	10.0	82	0.00
31	l9	1268-3	2500.000	2813.914	-12.6	103	0.00
32	l9	1268-4	2500.000	2521.783	-0.9	94	0.00
33	l9	1268-5	2500.000	3043.269	-21.7#	110	0.00
34	i	1248_1br2nb	250.000	250.000	0.0	90	0.00
40	i	3262_1br2nb	250.000	250.000	0.0	95	0.00

Signal #2

1	i	1660_1br2nb	250.000	250.000	0.0	91	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl	160.000	171.571	-7.2	98	0.00
3	s	Decachlorobiphenyl	320.000	544.103	-70.0#	159	0.00
14	i	2154_1br2nb	250.000	250.000	0.0	95	0.00

Evaluate Continuing Calibration Report

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-33.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 9 Aug 2018   4:05 pm
Operator : pest16:jw
Sample   : cicv4268,42e,,8848
Misc   : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 33   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:46:41 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:44:49 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
23	i	4268_1br2nb	250.000	250.000	0.0	106	0.00
24	l6	1242-1	2500.000	2391.710	4.3	100	0.00
25	l6	1242-2	2500.000	2369.019	5.2	98	0.00
26	l6	1242-3	2500.000	2433.514	2.7	100	0.00
27	l6	1242-4	2500.000	2432.680	2.7	98	0.00
28	l6	1242-5	2500.000	2501.069	-0.0	106	0.00
29	l9	1268-1	2500.000	2365.319	5.4	93	0.00
30	l9	1268-2	2500.000	2101.700	15.9	82	0.00
31	l9	1268-3	2500.000	2675.359	-7.0	105	0.00
32	l9	1268-4	2500.000	2297.092	8.1	91	0.00
33	l9	1268-5	2500.000	2842.104	-13.7	109	0.00
34	i	1248_1br2nb	250.000	250.000	0.0	92	0.00
40	i	3262_1br2nb	250.000	250.000	0.0	96	0.00

Evaluate Continuing Calibration Report - Not Founds

4	l1	1016-1	2500.000	0.000	100.0#	0	-3.03#
5	l1	1016-2	2500.000	0.000	100.0#	0	-3.30#
6	l1	1016-3	2500.000	0.000	100.0#	0	-3.67#
7	l1	1016-4	2500.000	0.000	100.0#	0	-3.78#
8	l1	1016-5	2500.000	0.000	100.0#	0	-4.11#
9	l2	1260-1	2500.000	0.000	100.0#	0	-5.06#
10	l2	1260-2	2500.000	0.000	100.0#	0	-5.27#
11	l2	1260-3	2500.000	0.000	100.0#	0	-5.73#
12	l2	1260-4	2500.000	0.000	100.0#	0	-5.95#
13	l2	1260-5	2500.000	0.000	100.0#	0	-6.15#
15	l3	1221-2	2500.000	0.000	100.0#	0	-2.89#
16	l3	1221-3	2500.000	0.000	100.0#	0	-3.00#
17	l3	1221-4	2500.000	0.000	100.0#	0	-3.03#

Evaluate Continuing Calibration Report

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-33.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 9 Aug 2018   4:05 pm
Operator : pest16:jw
Sample   : cicv4268,42e,,8848
Misc   : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 33   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:46:41 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:44:49 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
18	l8	1254-1	N/A	0.00	100.0#	0	-6.72#
19	l4	1254-2	2500.000	0.000	100.0#	0	-4.61#
20	l4	1254-3	2500.000	0.000	100.0#	0	-4.92#
21	l4	1254-4	2500.000	0.000	100.0#	0	-5.13#
22	l4	1254-5	2500.000	0.000	100.0#	0	-5.47#
35	l7	1248-1	2500.000	0.000	100.0#	0	-3.65#
36	l7	1248-2	2500.000	0.000	100.0#	0	-3.92#
37	l7	1248-3	2500.000	0.000	100.0#	0	-4.11#
38	l7	1248-4	2500.000	0.000	100.0#	0	-4.45#
39	l7	1248-5	2500.000	0.000	100.0#	0	-4.47#
41	l5	1232-1	2500.000	0.000	100.0#	0	-3.03#
42	l5	1232-2	2500.000	0.000	100.0#	0	-3.30#
43	l5	1232-3	2500.000	0.000	100.0#	0	-3.67#
44	l5	1232-4	2500.000	0.000	100.0#	0	-4.11#
45	l8	1232-5	N/A	0.00	100.0#	0	-6.72#
46	l8	1262-1	2500.000	0.000	100.0#	0	-5.27#
47	l8	1262-2	2500.000	0.000	100.0#	0	-5.56#
48	l8	1262-3	2500.000	0.000	100.0#	0	-5.73#
49	l8	1262-4	2500.000	0.000	100.0#	0	-5.95#
50	l8	1262-5	2500.000	0.000	100.0#	0	-6.17#

Signal #2

4	l1	1016-1	2500.000	0.000	100.0#	0	-3.43#
5	l1	1016-2	2500.000	0.000	100.0#	0	-3.77#
6	l1	1016-3	2500.000	0.000	100.0#	0	-4.17#
7	l1	1016-4	2500.000	0.000	100.0#	0	-4.28#
8	l1	1016-5	2500.000	0.000	100.0#	0	-4.66#
9	l2	1260-1	2500.000	0.000	100.0#	0	-5.63#
10	l2	1260-2	2500.000	0.000	100.0#	0	-5.78#
11	l2	1260-3	2500.000	0.000	100.0#	0	-6.31#

Evaluate Continuing Calibration Report

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-33.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 9 Aug 2018   4:05 pm
Operator : pest16:jw
Sample   : cicv4268,42e,,8848
Misc   : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 33   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:46:41 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:44:49 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
12	l2	1260-4	2500.000	0.000	100.0#	0	-6.47#
13	l2	1260-5	2500.000	0.000	100.0#	0	-6.73#
15	l3	1221-2	2500.000	0.000	100.0#	0	-3.26#
16	l3	1221-3	2500.000	0.000	100.0#	0	-3.38#
17	l3	1221-4	2500.000	0.000	100.0#	0	-3.43#
18	l8	1254-1	N/A	0.00	100.0#	0	-6.72#
19	l4	1254-2	2500.000	0.000	100.0#	0	-5.13#
20	l4	1254-3	2500.000	0.000	100.0#	0	-5.49#
21	l4	1254-4	2500.000	0.000	100.0#	0	-5.65#
22	l4	1254-5	2500.000	0.000	100.0#	0	-6.04#
35	l7	1248-1	2500.000	0.000	100.0#	0	-4.15#
36	l7	1248-2	2500.000	0.000	100.0#	0	-4.44#
37	l7	1248-3	2500.000	0.000	100.0#	0	-4.66#
38	l7	1248-4	2500.000	0.000	100.0#	0	-4.96#
39	l7	1248-5	2500.000	0.000	100.0#	0	-5.00#
41	l5	1232-1	2500.000	0.000	100.0#	0	-3.43#
42	l5	1232-2	2500.000	0.000	100.0#	0	-3.77#
43	l5	1232-3	2500.000	0.000	100.0#	0	-4.17#
44	l5	1232-4	2500.000	0.000	100.0#	0	-4.66#
45	l8	1232-5	N/A	0.00	100.0#	0	-6.72#
46	l8	1262-1	2500.000	0.000	100.0#	0	-5.78#
47	l8	1262-2	2500.000	0.000	100.0#	0	-6.10#
48	l8	1262-3	2500.000	0.000	100.0#	0	-6.31#
49	l8	1262-4	2500.000	0.000	100.0#	0	-6.47#
50	l8	1262-5	2500.000	0.000	100.0#	0	-6.72#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-33.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 4:05 pm
Operator : pest16:jw
Sample : cicv4268,42e,,8848
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:46:41 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:44:49 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	2.267	2.374	543.6E6	1132.3E6	250.000	250.000
14) i	2154_1br2nb	2.267	2.374	543.6E6	1132.3E6	250.000	250.000
23) i	4268_1br2nb	2.267	2.374	543.6E6	1132.3E6	250.000	250.000
34) i	1248_1br2nb	2.267	2.374	543.6E6	1132.3E6	250.000	250.000
40) i	3262_1br2nb	2.267	2.374	543.6E6	1132.3E6	250.000	250.000
	System Monitoring Compounds						
2) s	2,4,5,6-T...	2.780	3.043	503.0E6	952.0E6	184.283	171.571
	Spiked Amount 500.000	Range 30 - 150		Recovery =		36.86%	34.31%
3) s	Decachlor...	6.886	7.520	1184.0E6	1631.4E6	598.190	544.103
	Spiked Amount 500.000	Range 30 - 150		Recovery =		119.64%	108.82%
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-33.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 4:05 pm
Operator : pest16:jw
Sample : cicv4268,42e,,8848
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:46:41 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:44:49 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	3.033	3.429	78159739	181.9E6	2385.335	2391.710
25) l6	1242-2	3.298	3.768	196.7E6	410.3E6	2383.614	2369.019
26) l6	1242-3	3.667	4.165	351.2E6	689.6E6	2587.058M1	2433.514M1
27) l6	1242-4	4.108	4.663	188.8E6	262.4E6	2467.607M1	2432.680
28) l6	1242-5	4.448	4.961	113.1E6	208.0E6	2463.123	2501.069
Sum	1242-1			928.0E6	1752.2E6	12286.736	12127.993
Average	1242-1					2457.347	2425.599
29) l9	1268-1	6.169	6.720	927.9E6	1375.1E6	2501.524	2365.319
30) l9	1268-2	6.197	6.752	864.8E6	1255.2E6	2249.858	2101.700
31) l9	1268-3	6.329	6.928	704.1E6	1031.6E6	2813.914	2675.359
32) l9	1268-4	6.568	7.110	297.3E6	425.0E6	2521.783	2297.092
33) l9	1268-5	6.759	7.335	2160.2E6	3197.3E6	3043.269	2842.104
Sum	1268-1			4954.4E6	7284.3E6	13130.348	12281.575
Average	1268-1					2626.070	2456.315
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-33.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 4:05 pm
Operator : pest16:jw
Sample : cicv4268,42e,,8848
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:46:41 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:44:49 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

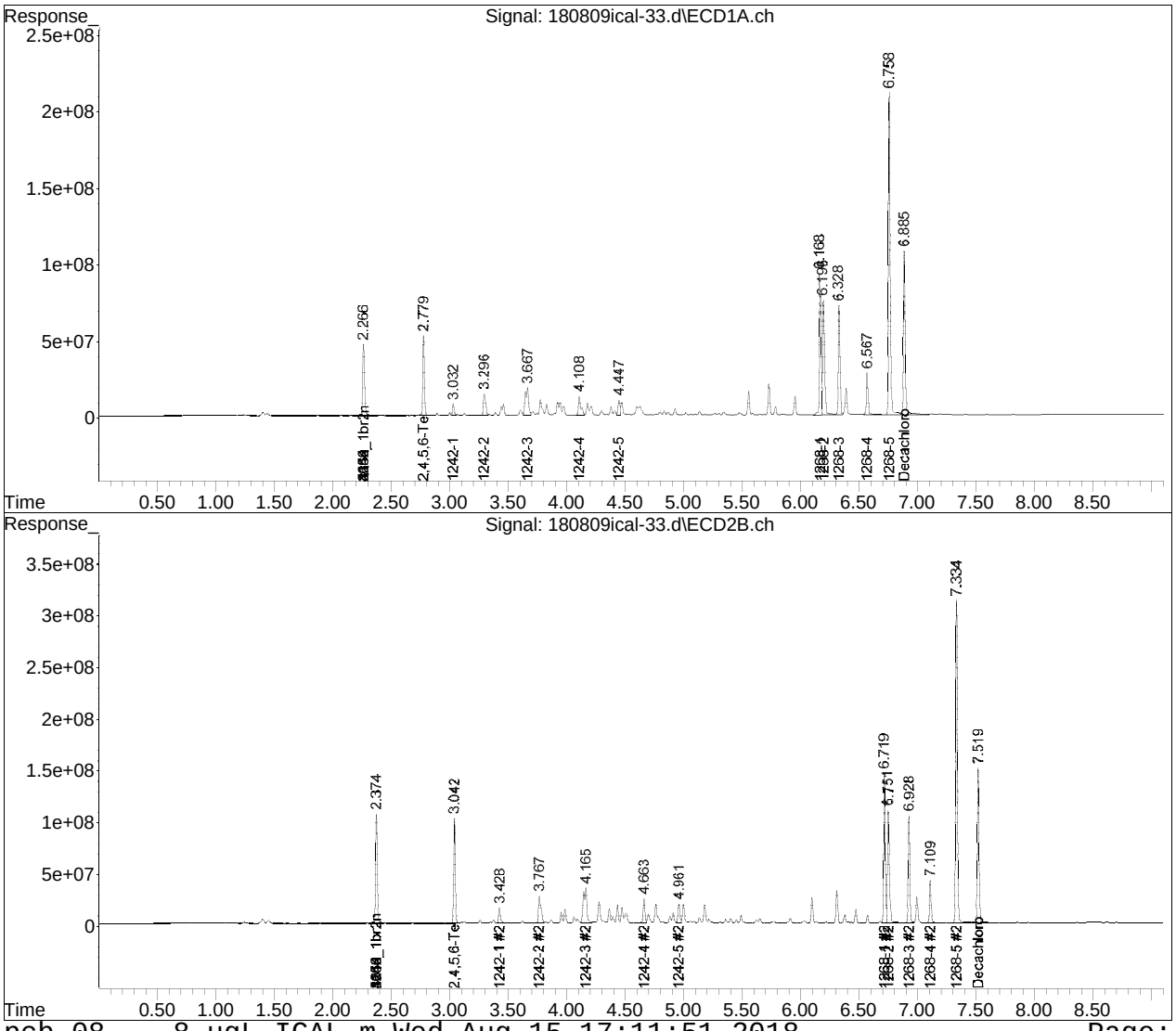
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-33.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 4:05 pm
Operator : pest16:jw
Sample : cicv4268,42e,,8848
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:46:41 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:44:49 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

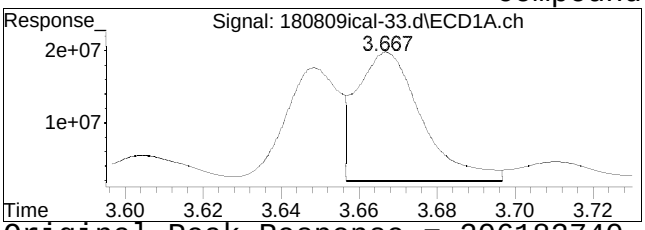


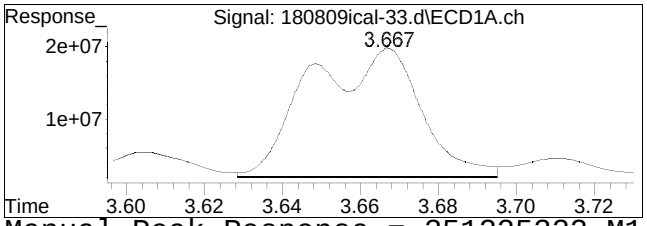
Manual Integration Report

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-33.d
Date Inj'd : 8/9/2018 4:05 pm
Sample : cicv4268,42e,,8848

QMethod : P16_pcb_08_09i_18_ugL_IC
Operator : pest16:jw
Instrument : PEST16
Quant Date : 8/15/2018 11:45 am

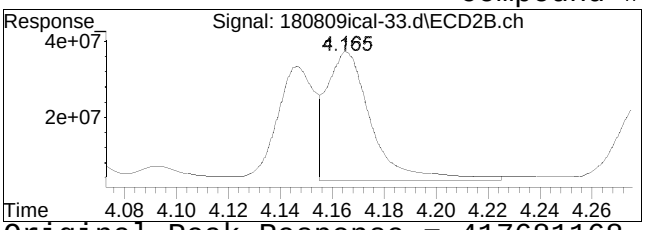
Compound #26: 1242-3

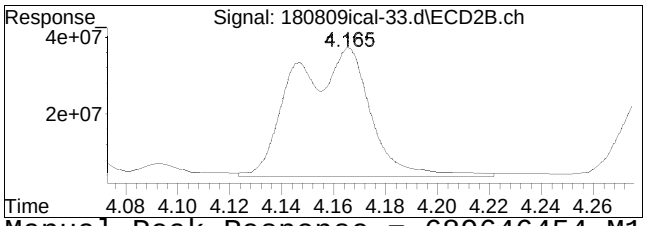




Original Peak Response = 206183740 Manual Peak Response = 351225322 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

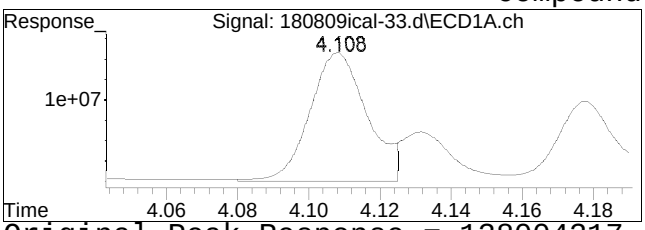
Compound #77: 1242-3 #2

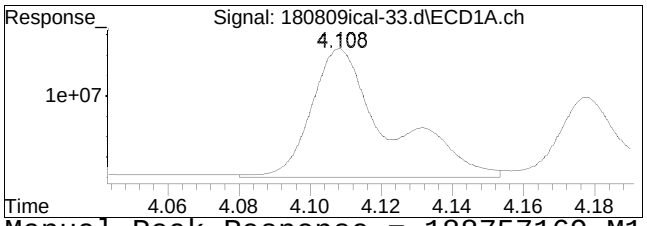




Original Peak Response = 417681168 Manual Peak Response = 689646454 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Compound #27: 1242-4





Original Peak Response = 138004317 Manual Peak Response = 188757169 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Evaluate Continuing Calibration Report

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-34.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 9 Aug 2018   4:17 pm
Operator : pest16:jw
Sample   : cicv3262,42e,,8849
Misc   : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 34   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 17:26:45 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 12:10:34 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	250.000	250.000	0.0	101	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen	160.000	166.039	-3.8	100	0.00
3	s	Decachlorobiphenyl	320.000	320.008	-0.0	100	0.00
14	i	2154_1br2nb	250.000	250.000	0.0	105	0.00
23	i	4268_1br2nb	250.000	250.000	0.0	116	0.00
34	i	1248_1br2nb	250.000	250.000	0.0	102	0.00
40	i	3262_1br2nb	250.000	250.000	0.0	108	0.00
41	l5	1232-1	2500.000	2217.091	11.3	96	0.00
42	l5	1232-2	2500.000	2061.565	17.5	91	0.00
43	l5	1232-3	2500.000	2179.354	12.8	95	0.00
44	l5	1232-4	2500.000	2053.274	17.9	86	0.00
45	l8	1262-1	2500.000	2205.208	11.8	93	0.00
46	l8	1262-2	2500.000	2184.024	12.6	91	0.00
47	l8	1262-3	2500.000	2157.681	13.7	90	0.00
48	l8	1262-4	2500.000	2285.567	8.6	94	0.00
49	l8	1262-5	2500.000	2100.197	16.0	86	0.00

Signal #2

1	i	1660_1br2nb	250.000	250.000	0.0	99	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl	160.000	159.014	0.6	98	0.00
3	s	Decachlorobiphenyl	320.000	312.175	2.4	99	0.00
14	i	2154_1br2nb	250.000	250.000	0.0	103	0.00
23	i	4268_1br2nb	250.000	250.000	0.0	116	0.00

Evaluate Continuing Calibration Report

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-34.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 9 Aug 2018   4:17 pm
Operator : pest16:jw
Sample   : cicv3262,42e,,8849
Misc   : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 34   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 17:26:45 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 12:10:34 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
34	i	1248_1br2nb	250.000	250.000	0.0	101	0.00
40	i	3262_1br2nb	250.000	250.000	0.0	105	0.00
41	l5	1232-1	2500.000	2222.568	11.1	99	0.00
42	l5	1232-2	2500.000	2070.678	17.2	90	0.00
43	l5	1232-3	2500.000	2227.401	10.9	95	0.00
44	l5	1232-4	2500.000	1953.246	21.9#	90	0.00
45	l8	1262-1	2500.000	2258.426	9.7	96	0.00
46	l8	1262-2	2500.000	2281.492	8.7	97	0.00
47	l8	1262-3	2500.000	2179.119	12.8	92	0.00
48	l8	1262-4	2500.000	2289.479	8.4	96	0.00
49	l8	1262-5	2500.000	2180.682	12.8	94	0.00

Evaluate Continuing Calibration Report - Not Founds

4	l1	1016-1	2500.000	0.000	100.0#	0	-3.03#
5	l1	1016-2	2500.000	0.000	100.0#	0	-3.30#
6	l1	1016-3	2500.000	0.000	100.0#	0	-3.67#
7	l1	1016-4	2500.000	0.000	100.0#	0	-3.78#
8	l1	1016-5	2500.000	0.000	100.0#	0	-4.11#
9	l2	1260-1	2500.000	0.000	100.0#	0	-5.06#
10	l2	1260-2	2500.000	0.000	100.0#	0	-5.27#
11	l2	1260-3	2500.000	0.000	100.0#	0	-5.73#
12	l2	1260-4	2500.000	0.000	100.0#	0	-5.95#
13	l2	1260-5	2500.000	0.000	100.0#	0	-6.15#
15	l3	1221-2	2500.000	0.000	100.0#	0	-2.89#
16	l3	1221-3	2500.000	0.000	100.0#	0	-3.00#
17	l3	1221-4	2500.000	0.000	100.0#	0	-3.03#
18	l8	1254-1	N/A	0.00	100.0#	0	-6.72#
19	l4	1254-2	2500.000	0.000	100.0#	0	-4.61#

Evaluate Continuing Calibration Report

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-34.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 9 Aug 2018   4:17 pm
Operator : pest16:jw
Sample   : cicv3262,42e,,8849
Misc   : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 34   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 17:26:45 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 12:10:34 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
20	l4	1254-3	2500.000	0.000	100.0#	0	-4.92#
21	l4	1254-4	2500.000	0.000	100.0#	0	-5.13#
22	l4	1254-5	2500.000	0.000	100.0#	0	-5.47#
24	l6	1242-1	2500.000	0.000	100.0#	0	-3.04#
25	l6	1242-2	2500.000	0.000	100.0#	0	-3.30#
26	l6	1242-3	2500.000	0.000	100.0#	0	-3.67#
27	l6	1242-4	2500.000	0.000	100.0#	0	-4.11#
28	l6	1242-5	2500.000	0.000	100.0#	0	-4.45#
29	l9	1268-1	2500.000	0.000	100.0#	0	-6.17#
30	l9	1268-2	2500.000	0.000	100.0#	0	-6.20#
31	l9	1268-3	2500.000	0.000	100.0#	0	-6.33#
32	l9	1268-4	2500.000	0.000	100.0#	0	-6.57#
33	l9	1268-5	2500.000	0.000	100.0#	0	-6.76#
35	l7	1248-1	2500.000	0.000	100.0#	0	-3.65#
36	l7	1248-2	2500.000	0.000	100.0#	0	-3.92#
37	l7	1248-3	2500.000	0.000	100.0#	0	-4.11#
38	l7	1248-4	2500.000	0.000	100.0#	0	-4.45#
39	l7	1248-5	2500.000	0.000	100.0#	0	-4.47#

Signal #2

4	l1	1016-1	2500.000	0.000	100.0#	0	-3.43#
5	l1	1016-2	2500.000	0.000	100.0#	0	-3.77#
6	l1	1016-3	2500.000	0.000	100.0#	0	-4.17#
7	l1	1016-4	2500.000	0.000	100.0#	0	-4.28#
8	l1	1016-5	2500.000	0.000	100.0#	0	-4.66#
9	l2	1260-1	2500.000	0.000	100.0#	0	-5.63#
10	l2	1260-2	2500.000	0.000	100.0#	0	-5.78#
11	l2	1260-3	2500.000	0.000	100.0#	0	-6.31#
12	l2	1260-4	2500.000	0.000	100.0#	0	-6.47#
13	l2	1260-5	2500.000	0.000	100.0#	0	-6.73#

Evaluate Continuing Calibration Report

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-34.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 9 Aug 2018   4:17 pm
Operator : pest16:jw
Sample   : cicv3262,42e,,8849
Misc   : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 34   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 17:26:45 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 12:10:34 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
15	l3	1221-2	2500.000	0.000	100.0#	0	-3.26#
16	l3	1221-3	2500.000	0.000	100.0#	0	-3.38#
17	l3	1221-4	2500.000	0.000	100.0#	0	-3.43#
18	l8	1254-1	N/A	0.00	100.0#	0	-6.72#
19	l4	1254-2	2500.000	0.000	100.0#	0	-5.13#
20	l4	1254-3	2500.000	0.000	100.0#	0	-5.49#
21	l4	1254-4	2500.000	0.000	100.0#	0	-5.65#
22	l4	1254-5	2500.000	0.000	100.0#	0	-6.04#
24	l6	1242-1	2500.000	0.000	100.0#	0	-3.43#
25	l6	1242-2	2500.000	0.000	100.0#	0	-3.77#
26	l6	1242-3	2500.000	0.000	100.0#	0	-4.17#
27	l6	1242-4	2500.000	0.000	100.0#	0	-4.67#
28	l6	1242-5	2500.000	0.000	100.0#	0	-4.96#
29	l9	1268-1	2500.000	0.000	100.0#	0	-6.72#
30	l9	1268-2	2500.000	0.000	100.0#	0	-6.75#
31	l9	1268-3	2500.000	0.000	100.0#	0	-6.93#
32	l9	1268-4	2500.000	0.000	100.0#	0	-7.11#
33	l9	1268-5	2500.000	0.000	100.0#	0	-7.34#
35	l7	1248-1	2500.000	0.000	100.0#	0	-4.15#
36	l7	1248-2	2500.000	0.000	100.0#	0	-4.44#
37	l7	1248-3	2500.000	0.000	100.0#	0	-4.66#
38	l7	1248-4	2500.000	0.000	100.0#	0	-4.96#
39	l7	1248-5	2500.000	0.000	100.0#	0	-5.00#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-34.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 4:17 pm
Operator : pest16:jw
Sample : cicv3262,42e,,8849
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 17:26:45 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 12:10:34 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	2.265	2.373	615.5E6	1231.8E6	250.000M4	250.000
14) i	2154_1br2nb	2.265	2.373	615.5E6	1231.8E6	250.000M4	250.000
23) i	4268_1br2nb	2.265	2.373	615.5E6	1231.8E6	250.000M4	250.000
34) i	1248_1br2nb	2.265	2.373	615.5E6	1231.8E6	250.000M4	250.000
40) i	3262_1br2nb	2.265	2.373	615.5E6	1231.8E6	250.000M4	250.000
	System Monitoring Compounds						
2) s	2,4,5,6-T...	2.779	3.042	513.1E6	959.9E6	166.039	159.014
	Spiked Amount	500.000	Range 30 - 150		Recovery =	33.21%	31.80%
3) s	Decachlor...	6.882	7.513	717.2E6	1018.3E6	320.008	312.175
	Spiked Amount	500.000	Range 30 - 150		Recovery =	64.00%	62.44%
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-34.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 4:17 pm
Operator : pest16:jw
Sample : cicv3262,42e,,8849
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 17:26:45 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 12:10:34 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-34.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 4:17 pm
Operator : pest16:jw
Sample : cicv3262,42e,,8849
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 17:26:45 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 12:10:34 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1248-1					0.000	0.000
41) l5	1232-1	3.032	3.427	116.4E6	259.0E6	2217.091	2222.568
42) l5	1232-2	3.297	3.768	112.5E6	235.2E6	2061.565	2070.678
43) l5	1232-3	3.666	4.164	198.7E6	390.1E6	2179.354M1	2227.401M1
44) l5	1232-4	4.108	4.662	94300821	128.9E6	2053.274M1	1953.246
Sum	1232-1			521.9E6	1013.2E6	8511.285	8473.892
Average	1232-1					2127.821	2118.473
45) l8	1262-1	5.266	5.775	334.5E6	458.5E6	2205.208	2258.426
46) l8	1262-2	5.554	6.096	438.1E6	658.1E6	2184.024	2281.492
47) l8	1262-3	5.733	6.307	386.1E6	581.6E6	2157.681	2179.119
48) l8	1262-4	5.948	6.469	774.3E6	1156.0E6	2285.567M3	2289.479
49) l8	1262-5	6.166	6.717	303.4E6	773.1E6	2100.197M3	2180.682
Sum	1262-1			2236.4E6	3627.2E6	10932.677	11189.197
Average	1262-1					2186.535	2237.839

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			2236.4E6	3627.2E6	10932.677	11189.197
Average	1262-1					2186.535	2237.839

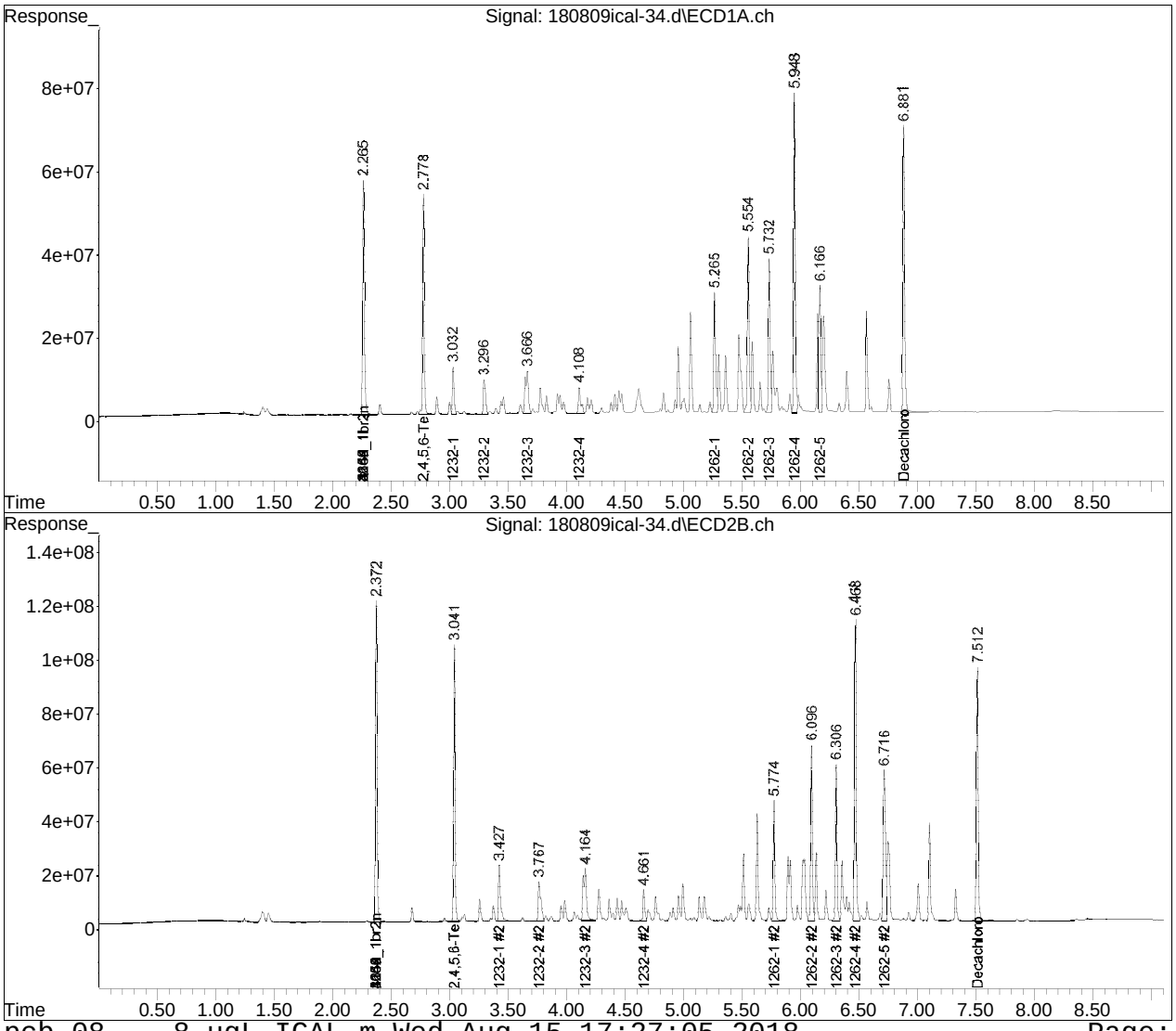
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-34.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 4:17 pm
Operator : pest16:jw
Sample : cicv3262,42e,,8849
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 17:26:45 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 12:10:34 2018
Response via : Initial Calibration
Integrator: ChemStation

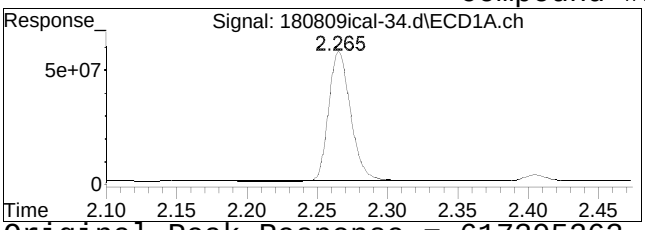
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

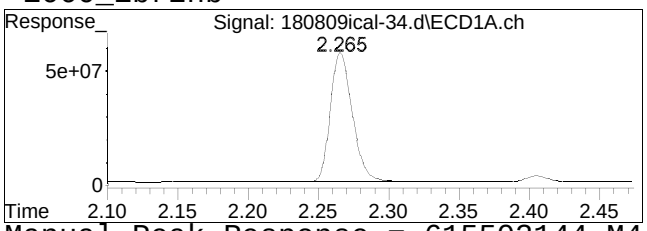


Manual Integration Report

Data Path : I:\Pest16\180809ICAL\ QMethod : P16_pcb_08_09i_18_ugL_IC
Data File : 180809ical-34.d Operator : pest16:jw
Date Inj'd : 8/9/2018 4:17 pm Instrument : PEST16
Sample : cicv3262,42e,,8849 Quant Date : 8/15/2018 12:11 pm

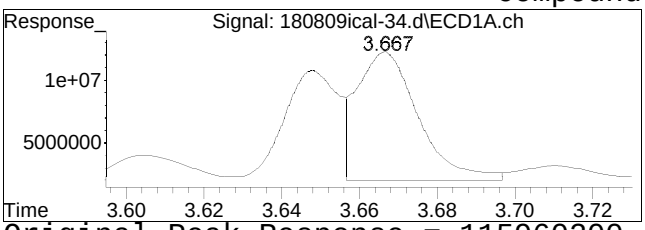
Compound #1: 1660_1br2nb

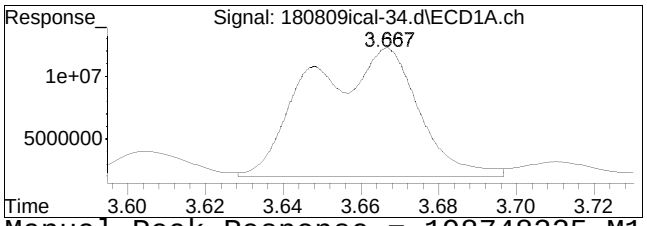




Original Peak Response = 617395363 Manual Peak Response = 615503144 M4
M4 = Poor automated baseline construction.

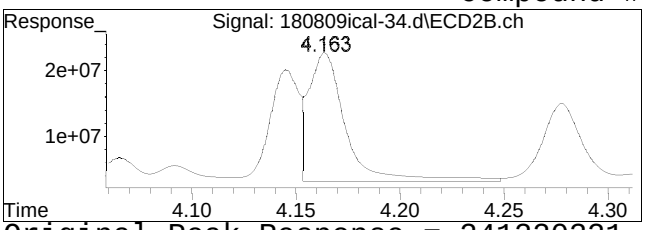
Compound #43: 1232-3

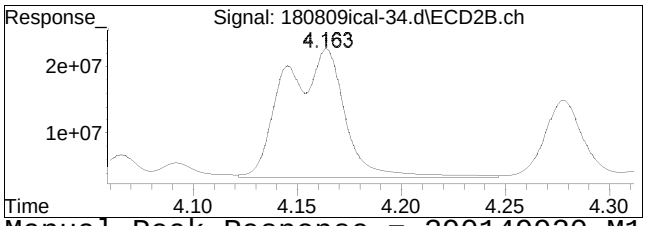




Original Peak Response = 115960200 Manual Peak Response = 198748325 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

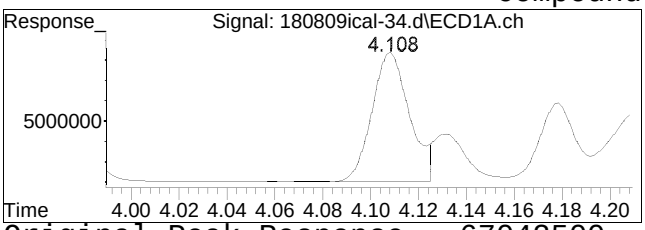
Compound #93: 1232-3 #2

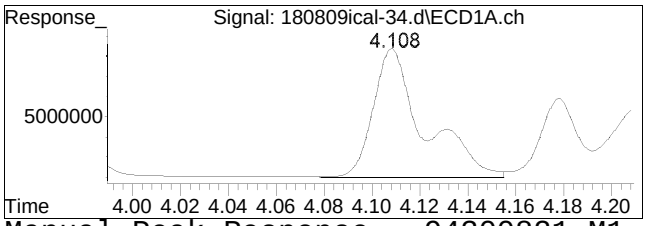




Original Peak Response = 241220321 Manual Peak Response = 390149920 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Compound #44: 1232-4





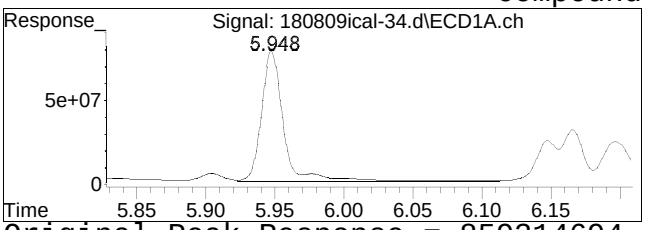
Original Peak Response = 67042500 Manual Peak Response = 94300821 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

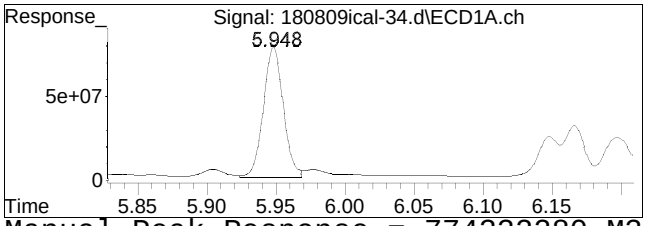
Manual Integration Report

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-34.d
Date Inj'd : 8/9/2018 4:17 pm
Sample : cicv3262,42e,,8849

QMethod : P16_pcb_08_09i_18_ugL_IC
Operator : pest16:jw
Instrument : PEST16
Quant Date : 8/15/2018 12:11 pm

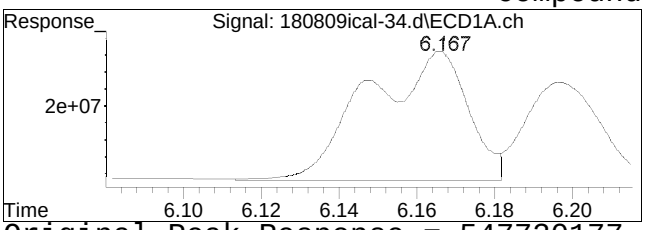
Compound #48: 1262-4

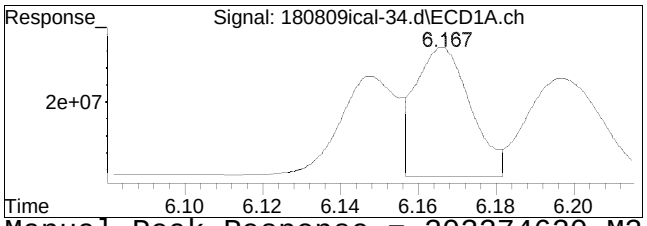




Original Peak Response = 859314694 Manual Peak Response = 774332280 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Compound #49: 1262-5





Original Peak Response = 547730177 Manual Peak Response = 303374620 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Evaluate Continuing Calibration Report

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-35.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 9 Aug 2018   4:30 pm
Operator : pest16:jw
Sample   : cicv1248,42e,,8850
Misc   : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 35   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 13:14:52 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 13:13:49 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	250.000	250.000	0.0	99	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen	160.000	161.578	-1.0	95	0.00
3	s	Decachlorobiphenyl	320.000	328.274	-2.6	100	0.00
14	i	2154_1br2nb	250.000	250.000	0.0	102	0.00
23	i	4268_1br2nb	250.000	250.000	0.0	113	0.00
34	i	1248_1br2nb	250.000	250.000	0.0	100	0.00
35	l7	1248-1	2500.000	2424.732	3.0	102	0.00
36	l7	1248-2	2500.000	2368.593	5.3	97	0.00
37	l7	1248-3	2500.000	2414.540	3.4	99	0.00
38	l7	1248-4	2500.000	2459.232	1.6	107	0.00
39	l7	1248-5	2500.000	2616.365	-4.7	105	0.00
40	i	3262_1br2nb	250.000	250.000	0.0	106	0.00

Signal #2

1	i	1660_1br2nb	250.000	250.000	0.0	99	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl	160.000	159.576	0.3	99	0.00
3	s	Decachlorobiphenyl	320.000	315.440	1.4	100	0.00
14	i	2154_1br2nb	250.000	250.000	0.0	103	0.00
23	i	4268_1br2nb	250.000	250.000	0.0	116	0.00
34	i	1248_1br2nb	250.000	250.000	0.0	101	0.00
35	l7	1248-1	2500.000	2430.485	2.8	103	0.00
36	l7	1248-2	2500.000	2334.668	6.6	99	0.00

Evaluate Continuing Calibration Report

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-35.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 9 Aug 2018   4:30 pm
Operator : pest16:jw
Sample   : cicv1248,42e,,8850
Misc   : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 35   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 13:14:52 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 13:13:49 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
37	l7	1248-3	2500.000	2358.986	5.6	100	0.00
38	l7	1248-4	2500.000	2442.252	2.3	109	0.00
39	l7	1248-5	2500.000	2488.958	0.4	108	0.00
40	i	3262_1br2nb	250.000	250.000	0.0	105	0.00

Evaluate Continuing Calibration Report - Not Founds

4	l1	1016-1	2500.000	0.000	100.0#	0	-3.03#
5	l1	1016-2	2500.000	0.000	100.0#	0	-3.30#
6	l1	1016-3	2500.000	0.000	100.0#	0	-3.67#
7	l1	1016-4	2500.000	0.000	100.0#	0	-3.78#
8	l1	1016-5	2500.000	0.000	100.0#	0	-4.11#
9	l2	1260-1	2500.000	0.000	100.0#	0	-5.06#
10	l2	1260-2	2500.000	0.000	100.0#	0	-5.27#
11	l2	1260-3	2500.000	0.000	100.0#	0	-5.73#
12	l2	1260-4	2500.000	0.000	100.0#	0	-5.95#
13	l2	1260-5	2500.000	0.000	100.0#	0	-6.15#
15	l3	1221-2	2500.000	0.000	100.0#	0	-2.89#
16	l3	1221-3	2500.000	0.000	100.0#	0	-3.00#
17	l3	1221-4	2500.000	0.000	100.0#	0	-3.03#
18	l8	1254-1	N/A	0.00	100.0#	0	-6.72#
19	l4	1254-2	2500.000	0.000	100.0#	0	-4.61#
20	l4	1254-3	2500.000	0.000	100.0#	0	-4.92#
21	l4	1254-4	2500.000	0.000	100.0#	0	-5.13#
22	l4	1254-5	2500.000	0.000	100.0#	0	-5.47#
24	l6	1242-1	2500.000	0.000	100.0#	0	-3.04#
25	l6	1242-2	2500.000	0.000	100.0#	0	-3.30#
26	l6	1242-3	2500.000	0.000	100.0#	0	-3.67#
27	l6	1242-4	2500.000	0.000	100.0#	0	-4.11#
28	l6	1242-5	2500.000	0.000	100.0#	0	-4.45#

Evaluate Continuing Calibration Report

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-35.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 9 Aug 2018   4:30 pm
Operator : pest16:jw
Sample   : cicv1248,42e,,8850
Misc   : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 35   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 13:14:52 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 13:13:49 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
29	l9	1268-1	2500.000	0.000	100.0#	0	-6.17#
30	l9	1268-2	2500.000	0.000	100.0#	0	-6.20#
31	l9	1268-3	2500.000	0.000	100.0#	0	-6.33#
32	l9	1268-4	2500.000	0.000	100.0#	0	-6.57#
33	l9	1268-5	2500.000	0.000	100.0#	0	-6.76#
41	l5	1232-1	2500.000	0.000	100.0#	0	-3.03#
42	l5	1232-2	2500.000	0.000	100.0#	0	-3.30#
43	l5	1232-3	2500.000	0.000	100.0#	0	-3.67#
44	l5	1232-4	2500.000	0.000	100.0#	0	-4.11#
45	l8	1262-1	2500.000	0.000	100.0#	0	-5.27#
46	l8	1262-2	2500.000	0.000	100.0#	0	-5.56#
47	l8	1262-3	2500.000	0.000	100.0#	0	-5.73#
48	l8	1262-4	2500.000	0.000	100.0#	0	-5.95#
49	l8	1262-5	2500.000	0.000	100.0#	0	-6.17#
Signal #2							
4	l1	1016-1	2500.000	0.000	100.0#	0	-3.43#
5	l1	1016-2	2500.000	0.000	100.0#	0	-3.77#
6	l1	1016-3	2500.000	0.000	100.0#	0	-4.17#
7	l1	1016-4	2500.000	0.000	100.0#	0	-4.28#
8	l1	1016-5	2500.000	0.000	100.0#	0	-4.66#
9	l2	1260-1	2500.000	0.000	100.0#	0	-5.63#
10	l2	1260-2	2500.000	0.000	100.0#	0	-5.78#
11	l2	1260-3	2500.000	0.000	100.0#	0	-6.31#
12	l2	1260-4	2500.000	0.000	100.0#	0	-6.47#
13	l2	1260-5	2500.000	0.000	100.0#	0	-6.73#
15	l3	1221-2	2500.000	0.000	100.0#	0	-3.26#
16	l3	1221-3	2500.000	0.000	100.0#	0	-3.38#
17	l3	1221-4	2500.000	0.000	100.0#	0	-3.43#
18	l8	1254-1	N/A	0.00	100.0#	0	-6.72#

Evaluate Continuing Calibration Report

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-35.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 9 Aug 2018   4:30 pm
Operator : pest16:jw
Sample   : cicv1248,42e,,8850
Misc   : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 35   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 13:14:52 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 13:13:49 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
19	l4	1254-2	2500.000	0.000	100.0#	0	-5.13#
20	l4	1254-3	2500.000	0.000	100.0#	0	-5.49#
21	l4	1254-4	2500.000	0.000	100.0#	0	-5.65#
22	l4	1254-5	2500.000	0.000	100.0#	0	-6.04#
24	l6	1242-1	2500.000	0.000	100.0#	0	-3.43#
25	l6	1242-2	2500.000	0.000	100.0#	0	-3.77#
26	l6	1242-3	2500.000	0.000	100.0#	0	-4.17#
27	l6	1242-4	2500.000	0.000	100.0#	0	-4.67#
28	l6	1242-5	2500.000	0.000	100.0#	0	-4.96#
29	l9	1268-1	2500.000	0.000	100.0#	0	-6.72#
30	l9	1268-2	2500.000	0.000	100.0#	0	-6.75#
31	l9	1268-3	2500.000	0.000	100.0#	0	-6.93#
32	l9	1268-4	2500.000	0.000	100.0#	0	-7.11#
33	l9	1268-5	2500.000	0.000	100.0#	0	-7.34#
41	l5	1232-1	2500.000	0.000	100.0#	0	-3.43#
42	l5	1232-2	2500.000	0.000	100.0#	0	-3.77#
43	l5	1232-3	2500.000	0.000	100.0#	0	-4.17#
44	l5	1232-4	2500.000	0.000	100.0#	0	-4.66#
45	l8	1262-1	2500.000	0.000	100.0#	0	-5.78#
46	l8	1262-2	2500.000	0.000	100.0#	0	-6.10#
47	l8	1262-3	2500.000	0.000	100.0#	0	-6.31#
48	l8	1262-4	2500.000	0.000	100.0#	0	-6.47#
49	l8	1262-5	2500.000	0.000	100.0#	0	-6.72#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-35.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 4:30 pm
Operator : pest16:jw
Sample : cicv1248,42e,,8850
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 13:14:52 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 13:13:49 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	2.265	2.373	603.5E6	1232.6E6	250.000	250.000
14) i	2154_1br2nb	2.265	2.373	603.5E6	1232.6E6	250.000	250.000
23) i	4268_1br2nb	2.265	2.373	603.5E6	1232.6E6	250.000	250.000
34) i	1248_1br2nb	2.265	2.373	603.5E6	1232.6E6	250.000	250.000
40) i	3262_1br2nb	2.265	2.373	603.5E6	1232.6E6	250.000	250.000
	System Monitoring Compounds						
2) s	2,4,5,6-T...	2.778	3.041	489.6E6	963.9E6	161.578	159.576
	Spiked Amount 500.000	Range 30 - 150		Recovery =		32.32%	31.92%
3) s	Decachlor...	6.881	7.512	721.4E6	1029.6E6	328.274	315.440
	Spiked Amount 500.000	Range 30 - 150		Recovery =		65.65%	63.09%
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-35.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 4:30 pm
Operator : pest16:jw
Sample : cicv1248,42e,,8850
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 13:14:52 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 13:13:49 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	3.648	4.146	112.1E6	221.5E6	2424.732	2430.485
36) l7	1248-2	3.921	4.435	188.8E6	323.0E6	2368.593	2334.668
37) l7	1248-3	4.107	4.661	293.2E6	406.1E6	2414.540	2358.986
38) l7	1248-4	4.446	4.960	224.8E6	387.7E6	2459.232	2442.252
39) l7	1248-5	4.469	4.998	191.9E6	438.0E6	2616.365	2488.958
Sum	1248-1			1010.9E6	1776.4E6	12283.462	12055.348

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-35.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 4:30 pm
Operator : pest16:jw
Sample : cicv1248,42e,,8850
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 13:14:52 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 13:13:49 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1248-1					2456.692	2411.070
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
45) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
46) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

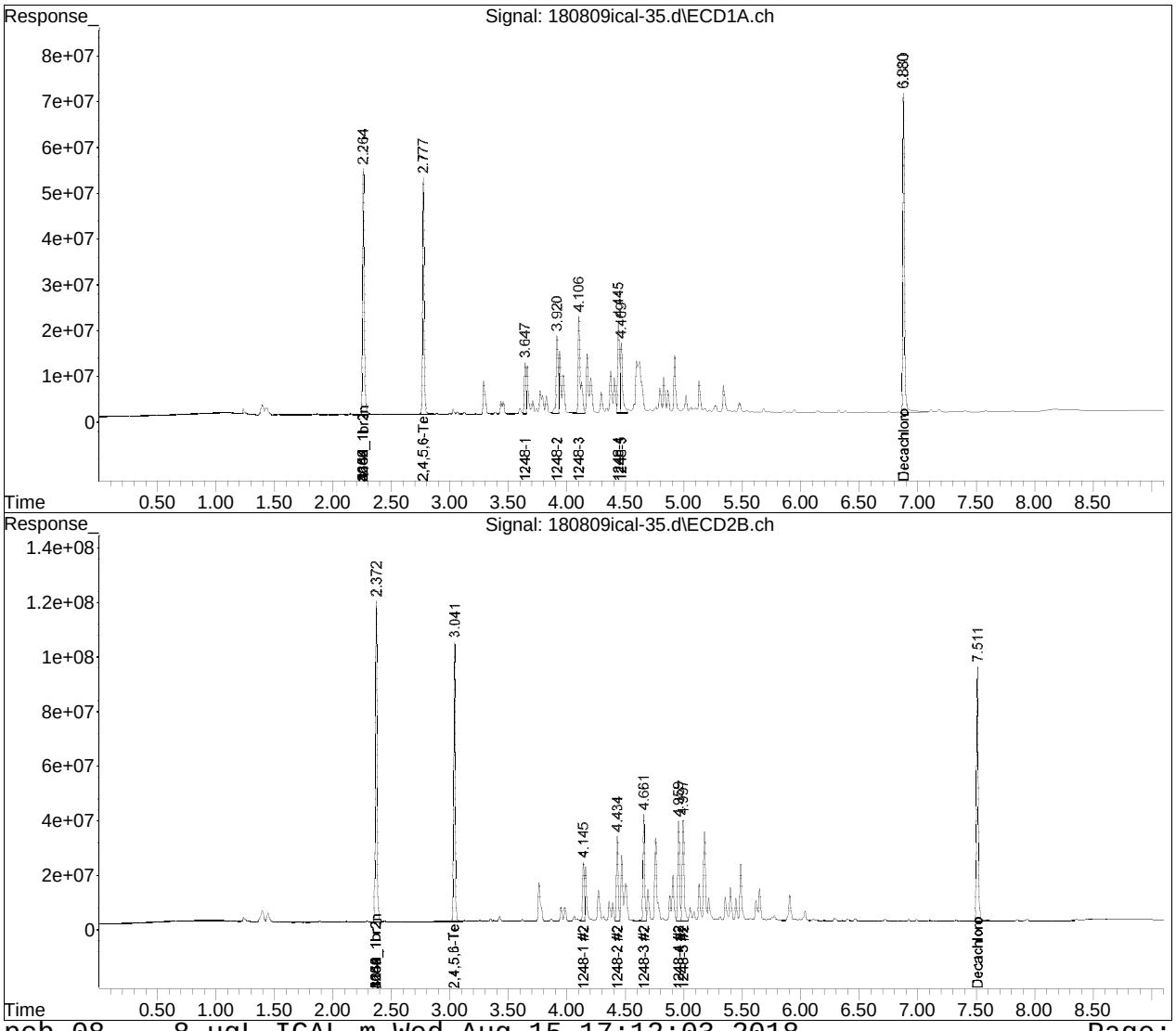
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-35.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 4:30 pm
Operator : pest16:jw
Sample : cicv1248,42e,,8850
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 13:14:52 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 13:13:49 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\Pest16\180809ICAL\	QMethod	: P16_pcb_08_09i_18_ugL_IC
Data File	: 180809ical-35.d	Operator	: pest16:jw
Date Inj'd	: 8/9/2018 4:30 pm	Instrument	: PEST16
Sample	: cicv1248,42e,,8850	Quant Date	: 8/15/2018 1:14 pm

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-36.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 9 Aug 2018   4:43 pm
Operator : pest16:jw
Sample   : cicv2154,42e,,8676
Misc   : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 36   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 13:29:49 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 13:28:17 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	250.000	250.000	0.0	95	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen	160.000	176.643	-10.4	100	0.00
3	s	Decachlorobiphenyl	320.000	368.884	-15.3	109	0.00
14	i	2154_1br2nb	250.000	250.000	0.0	99	0.00
15	l3	1221-2	2500.000	2544.171	-1.8	99	0.00
16	l3	1221-3	2500.000	2435.054	2.6	95	0.00
17	l3	1221-4	2500.000	2289.297	8.4	89	0.00
18	l4	1254-2	2500.000	2161.061	13.6	91	0.00
19	l4	1254-3	2500.000	2363.302	5.5	92	0.00
20	l4	1254-4	2500.000	2127.298	14.9	89	0.00
21	l4	1254-5	2500.000	2200.303	12.0	86	0.00
22	i	4268_1br2nb	250.000	250.000	0.0	109	0.00
33	i	1248_1br2nb	250.000	250.000	0.0	96	0.00
39	i	3262_1br2nb	250.000	250.000	0.0	102	0.00

Signal #2

1	i	1660_1br2nb	250.000	250.000	0.0	94	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl	160.000	174.092	-8.8	102	0.00
3	s	Decachlorobiphenyl	320.000	361.681	-13.0	109	0.00
14	i	2154_1br2nb	250.000	250.000	0.0	98	0.00
15	l3	1221-2	2500.000	2420.900	3.2	96	0.00
16	l3	1221-3	2500.000	2356.536	5.7	95	0.00
17	l3	1221-4	2500.000	2390.142	4.4	95	0.00
18	l4	1254-2	2500.000	2226.468	10.9	91	0.00

Evaluate Continuing Calibration Report

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-36.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 9 Aug 2018   4:43 pm
Operator : pest16:jw
Sample   : cicv2154,42e,,8676
Misc   : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 36   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 13:29:49 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 13:28:17 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
19	l4	1254-3	2500.000	2307.689	7.7	93	0.00
20	l4	1254-4	2500.000	2259.467	9.6	94	0.00
21	l4	1254-5	2500.000	2286.213	8.6	89	0.00
22	i	4268_1br2nb	250.000	250.000	0.0	110	0.00
33	i	1248_1br2nb	250.000	250.000	0.0	95	0.00
39	i	3262_1br2nb	250.000	250.000	0.0	99	0.00

Evaluate Continuing Calibration Report - Not Founds

4	l1	1016-1	2500.000	0.000	100.0#	0	-3.03#
5	l1	1016-2	2500.000	0.000	100.0#	0	-3.30#
6	l1	1016-3	2500.000	0.000	100.0#	0	-3.67#
7	l1	1016-4	2500.000	0.000	100.0#	0	-3.78#
8	l1	1016-5	2500.000	0.000	100.0#	0	-4.11#
9	l2	1260-1	2500.000	0.000	100.0#	0	-5.06#
10	l2	1260-2	2500.000	0.000	100.0#	0	-5.27#
11	l2	1260-3	2500.000	0.000	100.0#	0	-5.73#
12	l2	1260-4	2500.000	0.000	100.0#	0	-5.95#
13	l2	1260-5	2500.000	0.000	100.0#	0	-6.15#
23	l6	1242-1	2500.000	0.000	100.0#	0	-3.04#
24	l6	1242-2	2500.000	0.000	100.0#	0	-3.30#
25	l6	1242-3	2500.000	0.000	100.0#	0	-3.67#
26	l6	1242-4	2500.000	0.000	100.0#	0	-4.11#
27	l6	1242-5	2500.000	0.000	100.0#	0	-4.45#
28	l9	1268-1	2500.000	0.000	100.0#	0	-6.17#
29	l9	1268-2	2500.000	0.000	100.0#	0	-6.20#
30	l9	1268-3	2500.000	0.000	100.0#	0	-6.33#
31	l9	1268-4	2500.000	0.000	100.0#	0	-6.57#

Evaluate Continuing Calibration Report

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-36.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 9 Aug 2018   4:43 pm
Operator : pest16:jw
Sample   : cicv2154,42e,,8676
Misc   : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 36   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 13:29:49 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 13:28:17 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
32 l9	1268-5	2500.000	0.000	100.0#	0	-6.76#
34 l7	1248-1	2500.000	0.000	100.0#	0	-3.65#
35 l7	1248-2	2500.000	0.000	100.0#	0	-3.92#
36 l7	1248-3	2500.000	0.000	100.0#	0	-4.11#
37 l7	1248-4	2500.000	0.000	100.0#	0	-4.45#
38 l7	1248-5	2500.000	0.000	100.0#	0	-4.47#
40 l5	1232-1	2500.000	0.000	100.0#	0	-3.03#
41 l5	1232-2	2500.000	0.000	100.0#	0	-3.30#
42 l5	1232-3	2500.000	0.000	100.0#	0	-3.67#
43 l5	1232-4	2500.000	0.000	100.0#	0	-4.11#
44 l8	1262-1	2500.000	0.000	100.0#	0	-5.27#
45 l8	1262-2	2500.000	0.000	100.0#	0	-5.56#
46 l8	1262-3	2500.000	0.000	100.0#	0	-5.73#
47 l8	1262-4	2500.000	0.000	100.0#	0	-5.95#
48 l8	1262-5	2500.000	0.000	100.0#	0	-6.17#

Signal #2

4 l1	1016-1	2500.000	0.000	100.0#	0	-3.43#
5 l1	1016-2	2500.000	0.000	100.0#	0	-3.77#
6 l1	1016-3	2500.000	0.000	100.0#	0	-4.17#
7 l1	1016-4	2500.000	0.000	100.0#	0	-4.28#
8 l1	1016-5	2500.000	0.000	100.0#	0	-4.66#
9 l2	1260-1	2500.000	0.000	100.0#	0	-5.63#
10 l2	1260-2	2500.000	0.000	100.0#	0	-5.78#
11 l2	1260-3	2500.000	0.000	100.0#	0	-6.31#
12 l2	1260-4	2500.000	0.000	100.0#	0	-6.47#
13 l2	1260-5	2500.000	0.000	100.0#	0	-6.73#
23 l6	1242-1	2500.000	0.000	100.0#	0	-3.43#
24 l6	1242-2	2500.000	0.000	100.0#	0	-3.77#
25 l6	1242-3	2500.000	0.000	100.0#	0	-4.17#

Evaluate Continuing Calibration Report

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-36.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 9 Aug 2018   4:43 pm
Operator : pest16:jw
Sample   : cicv2154,42e,,8676
Misc   : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 36   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 13:29:49 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 13:28:17 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
26 l6	1242-4	2500.000	0.000	100.0#	0	-4.67#
27 l6	1242-5	2500.000	0.000	100.0#	0	-4.96#
28 l9	1268-1	2500.000	0.000	100.0#	0	-6.72#
29 l9	1268-2	2500.000	0.000	100.0#	0	-6.75#
30 l9	1268-3	2500.000	0.000	100.0#	0	-6.93#
31 l9	1268-4	2500.000	0.000	100.0#	0	-7.11#
32 l9	1268-5	2500.000	0.000	100.0#	0	-7.34#
34 l7	1248-1	2500.000	0.000	100.0#	0	-4.15#
35 l7	1248-2	2500.000	0.000	100.0#	0	-4.44#
36 l7	1248-3	2500.000	0.000	100.0#	0	-4.66#
37 l7	1248-4	2500.000	0.000	100.0#	0	-4.96#
38 l7	1248-5	2500.000	0.000	100.0#	0	-5.00#
40 l5	1232-1	2500.000	0.000	100.0#	0	-3.43#
41 l5	1232-2	2500.000	0.000	100.0#	0	-3.77#
42 l5	1232-3	2500.000	0.000	100.0#	0	-4.17#
43 l5	1232-4	2500.000	0.000	100.0#	0	-4.66#
44 l8	1262-1	2500.000	0.000	100.0#	0	-5.78#
45 l8	1262-2	2500.000	0.000	100.0#	0	-6.10#
46 l8	1262-3	2500.000	0.000	100.0#	0	-6.31#
47 l8	1262-4	2500.000	0.000	100.0#	0	-6.47#
48 l8	1262-5	2500.000	0.000	100.0#	0	-6.72#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-36.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 4:43 pm
Operator : pest16:jw
Sample : cicv2154,42e,,8676
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 13:29:49 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 13:28:17 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	2.267	2.374	581.6E6	1167.0E6	250.000	250.000
14) i	2154_1br2nb	2.267	2.374	581.6E6	1167.0E6	250.000	250.000
22) i	4268_1br2nb	2.267	2.374	581.6E6	1167.0E6	250.000	250.000
33) i	1248_1br2nb	2.267	2.374	581.6E6	1167.0E6	250.000	250.000
39) i	3262_1br2nb	2.267	2.374	581.6E6	1167.0E6	250.000	250.000
	System Monitoring Compounds						
2) s	2,4,5,6-T...	2.779	3.042	515.8E6	995.7E6	176.643	174.092
	Spiked Amount 500.000	Range 30 - 150		Recovery =		35.33%	34.82%
3) s	Decachlor...	6.880	7.510	781.1E6	1117.7E6	368.884	361.681
	Spiked Amount 500.000	Range 30 - 150		Recovery =		73.78%	72.34%
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-2	2.893	3.261	63716285	129.8E6	2544.171	2420.900
16) l3	1221-3	3.002	3.376	36320660	77557040	2435.054	2356.536
17) l3	1221-4	3.033	3.428	136.3E6	313.5E6	2289.297	2390.142

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-36.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 4:43 pm
Operator : pest16:jw
Sample : cicv2154,42e,,8676
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 13:29:49 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 13:28:17 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-2			236.4E6	520.9E6	7268.523	7167.578
Average	1221-2					2422.841	2389.193
18) l4	1254-2	4.614	5.135	390.2E6	484.3E6	2161.061	2226.468
19) l4	1254-3	4.926	5.490	393.9E6	727.9E6	2363.302	2307.689
20) l4	1254-4	5.135	5.651	237.9E6	393.0E6	2127.298	2259.467
21) l4	1254-5	5.475	6.036	388.0E6	609.3E6	2200.303	2286.213
Sum	1254-2			1409.9E6	2214.6E6	8851.963	9079.838
Average	1254-2					2212.991	2269.960
23) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
24) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
28) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
29) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
34) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-36.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 4:43 pm
Operator : pest16:jw
Sample : cicv2154,42e,,8676
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 13:29:49 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 13:28:17 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
40)	l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
41)	l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
42)	l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
43)	l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
44)	l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
45)	l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
46)	l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
47)	l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
48)	l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum 1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

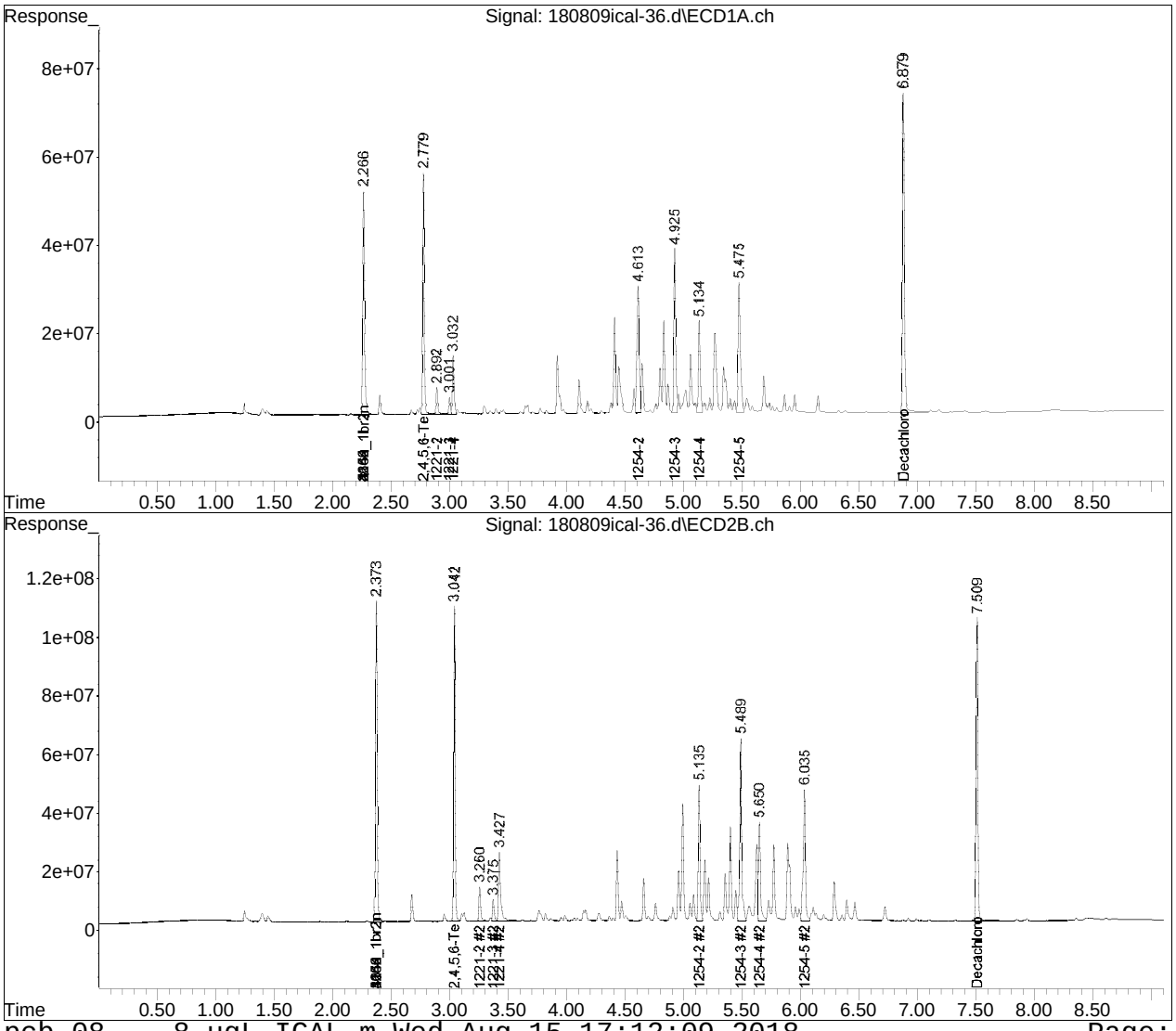
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-36.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 4:43 pm
Operator : pest16:jw
Sample : cicv2154,42e,,8676
Misc : wg1146937,ical (Sig #1); ical (Sig #2)
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 13:29:49 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 13:28:17 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\Pest16\180809ICAL\	QMethod	: P16_pcb_08_09i_18_ugL_IC
Data File	: 180809ical-36.d	Operator	: pest16:jw
Date Inj'd	: 8/9/2018 4:43 pm	Instrument	: PEST16
Sample	: cicv2154,42e,,8676	Quant Date	: 8/15/2018 1:29 pm

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-37.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 9 Aug 2018   4:56 pm
Operator : pest16:jw
Sample   : cicv1660,42e,,8847
Misc   : wg1146937,ical
ALS Vial : 37   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:27:55 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:26:27 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	250.000	250.000	0.0	108	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen	160.000	161.834	-1.1	104	0.00
3	s	Decachlorobiphenyl	320.000	312.615	2.3	104	0.00
4	l1	1016-1	2500.000	2169.960	13.2	96	0.00
5	l1	1016-2	2500.000	2371.189	5.2	102	0.00
6	l1	1016-3	2500.000	2595.342	-3.8	112	0.00
7	l1	1016-4	2500.000	2509.954	-0.4	109	0.00
8	l1	1016-5	2500.000	2339.162	6.4	101	0.00
9	l2	1260-1	2500.000	2405.695	3.8	105	0.00
10	l2	1260-2	2500.000	2496.495	0.1	109	0.00
11	l2	1260-3	2500.000	2161.493	13.5	93	0.00
12	l2	1260-4	2500.000	2172.338	13.1	92	0.00
13	l2	1260-5	2500.000	2218.197	11.3	95	0.00
14	i	2154_1br2nb	250.000	250.000	0.0	112	0.00
23	i	4268_1br2nb	250.000	250.000	0.0	124	0.00
34	i	1248_1br2nb	250.000	250.000	0.0	109	0.00
40	i	3262_1br2nb	250.000	250.000	0.0	115	0.00

Signal #2

1	i	1660_1br2nb	250.000	250.000	0.0	106	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl	160.000	156.972	1.9	104	0.00
3	s	Decachlorobiphenyl	320.000	306.657	4.2	104	0.00
4	l1	1016-1	2500.000	2123.052	15.1	96	0.00
5	l1	1016-2	2500.000	2398.428	4.1	105	0.00
6	l1	1016-3	2500.000	2597.273	-3.9	112	0.00

Evaluate Continuing Calibration Report

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-37.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 9 Aug 2018   4:56 pm
Operator : pest16:jw
Sample   : cicv1660,42e,,8847
Misc   : wg1146937,ical
ALS Vial : 37   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:27:55 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:26:27 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
7	l1	1016-4	2500.000	2446.908	2.1	109	0.00
8	l1	1016-5	2500.000	2311.918	7.5	101	0.00
9	l2	1260-1	2500.000	2389.977	4.4	109	0.00
10	l2	1260-2	2500.000	2399.787	4.0	106	0.00
11	l2	1260-3	2500.000	2101.317	15.9	94	0.00
12	l2	1260-4	2500.000	2116.023	15.4	91	0.00
13	l2	1260-5	2500.000	2211.693	11.5	95	0.00
14	i	2154_1br2nb	250.000	250.000	0.0	110	0.00
23	i	4268_1br2nb	250.000	250.000	0.0	124	0.00
34	i	1248_1br2nb	250.000	250.000	0.0	108	0.00
40	i	3262_1br2nb	250.000	250.000	0.0	112	0.00

Evaluate Continuing Calibration Report - Not Founds

15	l3	1221-2	2500.000	0.000	100.0#	0	-2.89#
16	l3	1221-3	2500.000	0.000	100.0#	0	-3.00#
17	l3	1221-4	2500.000	0.000	100.0#	0	-3.03#
18	l8	1254-1	N/A	0.00	100.0#	0	-6.72#
19	l4	1254-2	2500.000	0.000	100.0#	0	-4.61#
20	l4	1254-3	2500.000	0.000	100.0#	0	-4.92#
21	l4	1254-4	2500.000	0.000	100.0#	0	-5.13#
22	l4	1254-5	2500.000	0.000	100.0#	0	-5.47#
24	l6	1242-1	2500.000	0.000	100.0#	0	-3.04#
25	l6	1242-2	2500.000	0.000	100.0#	0	-3.30#
26	l6	1242-3	2500.000	0.000	100.0#	0	-3.67#
27	l6	1242-4	2500.000	0.000	100.0#	0	-4.11#
28	l6	1242-5	2500.000	0.000	100.0#	0	-4.45#

Evaluate Continuing Calibration Report

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-37.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 9 Aug 2018   4:56 pm
Operator : pest16:jw
Sample   : cicv1660,42e,,8847
Misc   : wg1146937,ical
ALS Vial : 37   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:27:55 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:26:27 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
29	l9	1268-1	2500.000	0.000	100.0#	0	-6.17#
30	l9	1268-2	2500.000	0.000	100.0#	0	-6.20#
31	l9	1268-3	2500.000	0.000	100.0#	0	-6.33#
32	l9	1268-4	2500.000	0.000	100.0#	0	-6.57#
33	l9	1268-5	2500.000	0.000	100.0#	0	-6.76#
35	l7	1248-1	2500.000	0.000	100.0#	0	-3.65#
36	l7	1248-2	2500.000	0.000	100.0#	0	-3.92#
37	l7	1248-3	2500.000	0.000	100.0#	0	-4.11#
38	l7	1248-4	2500.000	0.000	100.0#	0	-4.45#
39	l7	1248-5	2500.000	0.000	100.0#	0	-4.47#
41	l5	1232-1	2500.000	0.000	100.0#	0	-3.03#
42	l5	1232-2	2500.000	0.000	100.0#	0	-3.30#
43	l5	1232-3	2500.000	0.000	100.0#	0	-3.67#
44	l5	1232-4	2500.000	0.000	100.0#	0	-4.11#
45	l8	1232-5	N/A	0.00	100.0#	0	-6.72#
46	l8	1262-1	2500.000	0.000	100.0#	0	-5.27#
47	l8	1262-2	2500.000	0.000	100.0#	0	-5.56#
48	l8	1262-3	2500.000	0.000	100.0#	0	-5.73#
49	l8	1262-4	2500.000	0.000	100.0#	0	-5.95#
50	l8	1262-5	2500.000	0.000	100.0#	0	-6.17#

Signal #2

15	l3	1221-2	2500.000	0.000	100.0#	0	-3.26#
16	l3	1221-3	2500.000	0.000	100.0#	0	-3.38#
17	l3	1221-4	2500.000	0.000	100.0#	0	-3.43#
18	l8	1254-1	N/A	0.00	100.0#	0	-6.72#
19	l4	1254-2	2500.000	0.000	100.0#	0	-5.13#
20	l4	1254-3	2500.000	0.000	100.0#	0	-5.49#
21	l4	1254-4	2500.000	0.000	100.0#	0	-5.65#
22	l4	1254-5	2500.000	0.000	100.0#	0	-6.04#

Evaluate Continuing Calibration Report

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-37.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 9 Aug 2018   4:56 pm
Operator : pest16:jw
Sample   : cicv1660,42e,,8847
Misc   : wg1146937,ical
ALS Vial : 37   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:27:55 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:26:27 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
24	l6	1242-1	2500.000	0.000	100.0#	0	-3.43#
25	l6	1242-2	2500.000	0.000	100.0#	0	-3.77#
26	l6	1242-3	2500.000	0.000	100.0#	0	-4.17#
27	l6	1242-4	2500.000	0.000	100.0#	0	-4.67#
28	l6	1242-5	2500.000	0.000	100.0#	0	-4.96#
29	l9	1268-1	2500.000	0.000	100.0#	0	-6.72#
30	l9	1268-2	2500.000	0.000	100.0#	0	-6.75#
31	l9	1268-3	2500.000	0.000	100.0#	0	-6.93#
32	l9	1268-4	2500.000	0.000	100.0#	0	-7.11#
33	l9	1268-5	2500.000	0.000	100.0#	0	-7.34#
35	l7	1248-1	2500.000	0.000	100.0#	0	-4.15#
36	l7	1248-2	2500.000	0.000	100.0#	0	-4.44#
37	l7	1248-3	2500.000	0.000	100.0#	0	-4.66#
38	l7	1248-4	2500.000	0.000	100.0#	0	-4.96#
39	l7	1248-5	2500.000	0.000	100.0#	0	-5.00#
41	l5	1232-1	2500.000	0.000	100.0#	0	-3.43#
42	l5	1232-2	2500.000	0.000	100.0#	0	-3.77#
43	l5	1232-3	2500.000	0.000	100.0#	0	-4.17#
44	l5	1232-4	2500.000	0.000	100.0#	0	-4.66#
45	l8	1232-5	N/A	0.00	100.0#	0	-6.72#
46	l8	1262-1	2500.000	0.000	100.0#	0	-5.78#
47	l8	1262-2	2500.000	0.000	100.0#	0	-6.10#
48	l8	1262-3	2500.000	0.000	100.0#	0	-6.31#
49	l8	1262-4	2500.000	0.000	100.0#	0	-6.47#
50	l8	1262-5	2500.000	0.000	100.0#	0	-6.72#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-37.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 4:56 pm
Operator : pest16:jw
Sample : cicv1660,42e,,8847
Misc : wg1146937,ical
ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:27:55 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:26:27 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	2.265	2.373	658.4E6	1317.1E6	250.000	250.000
14) i	2154_1br2nb	2.265	2.373	658.4E6	1317.1E6	250.000	250.000
23) i	4268_1br2nb	2.265	2.373	658.4E6	1317.1E6	250.000	250.000
34) i	1248_1br2nb	2.265	2.373	658.4E6	1317.1E6	250.000	250.000
40) i	3262_1br2nb	2.265	2.373	658.4E6	1317.1E6	250.000	250.000
	System Monitoring Compounds						
2) s	2,4,5,6-T...	2.778	3.042	535.0E6	1013.2E6	161.834	156.972
	Spiked Amount 500.000	Range 30 - 150		Recovery =		32.37%	31.39%
3) s	Decachlor...	6.879	7.510	749.4E6	1069.6E6	312.615	306.657
	Spiked Amount 500.000	Range 30 - 150		Recovery =		62.52%	61.33%
	Target Compounds						
4) l1	1016-1	3.031	3.427	105.7E6	223.1E6	2169.960	2123.052
5) l1	1016-2	3.296	3.767	275.2E6	554.2E6	2371.189	2398.428
6) l1	1016-3	3.665	4.164	527.0E6	1035.1E6	2595.342M1	2597.273M1
7) l1	1016-4	3.775	4.278	221.6E6	389.2E6	2509.954	2446.908
8) l1	1016-5	4.106	4.661	243.1E6	325.0E6	2339.162M1	2311.918
	Sum 1016-1			1372.5E6	2526.7E6	11985.608	11877.578
Average	1016-1					2397.122	2375.516
9) l2	1260-1	5.060	5.630	361.8E6	602.7E6	2405.695	2389.977
10) l2	1260-2	5.265	5.773	555.4E6	666.5E6	2496.495	2399.787
11) l2	1260-3	5.731	6.304	303.8E6	485.5E6	2161.493	2101.317
12) l2	1260-4	5.947	6.467	655.1E6	1002.0E6	2172.338	2116.023
13) l2	1260-5	6.146	6.723	472.0E6	686.3E6	2218.197	2211.693
	Sum 1260-1			2348.2E6	3443.1E6	11454.218	11218.798
Average	1260-1					2290.844	2243.760
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-37.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 4:56 pm
Operator : pest16:jw
Sample : cicv1660,42e,,8847
Misc : wg1146937,ical
ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:27:55 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:26:27 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-37.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 4:56 pm
Operator : pest16:jw
Sample : cicv1660,42e,,8847
Misc : wg1146937,ical
ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:27:55 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:26:27 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

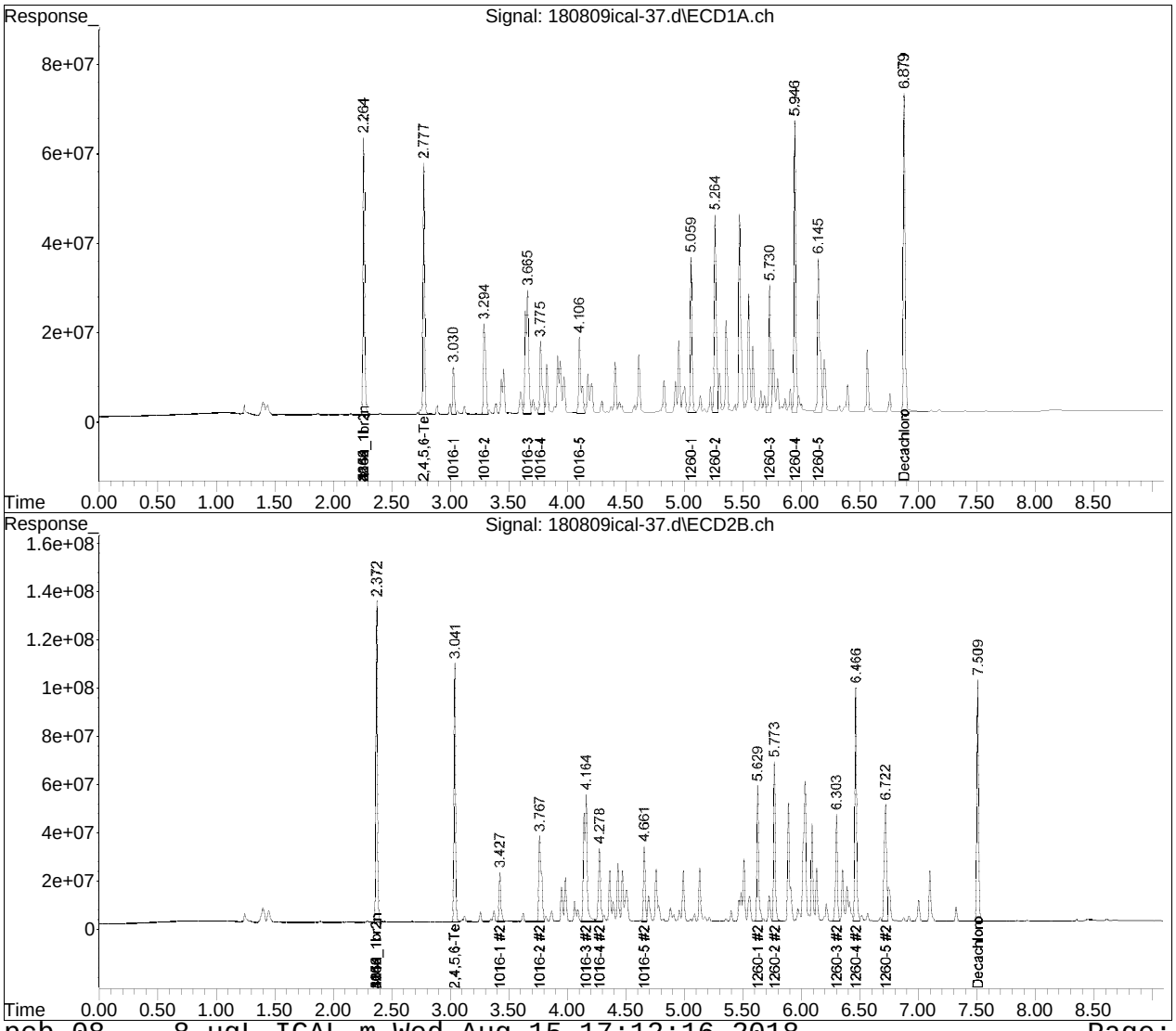
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-37.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 9 Aug 2018 4:56 pm
Operator : pest16:jw
Sample : cicv1660,42e,,8847
Misc : wg1146937,ical
ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Aug 15 11:27:55 2018
Quant Method : I:\Pest16\180809ICAL\P16_pcb_08_09i_18_ugL_ICAL.m
Quant Title : pcb
QLast Update : Wed Aug 15 11:26:27 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

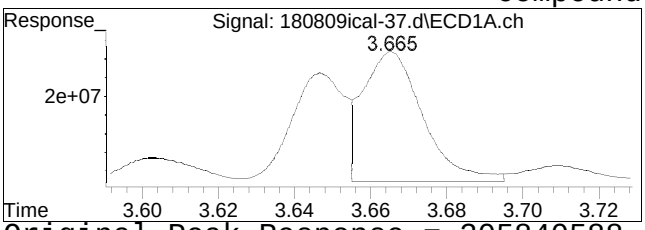


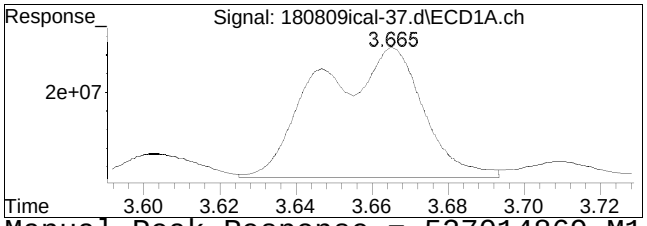
Manual Integration Report

Data Path : I:\Pest16\180809ICAL\
Data File : 180809ical-37.d
Date Inj'd : 8/9/2018 4:56 pm
Sample : cicv1660,42e,,8847

QMethod : P16_pcb_08_09i_18_ugL_IC
Operator : pest16:jw
Instrument : PEST16
Quant Date : 8/15/2018 11:26 am

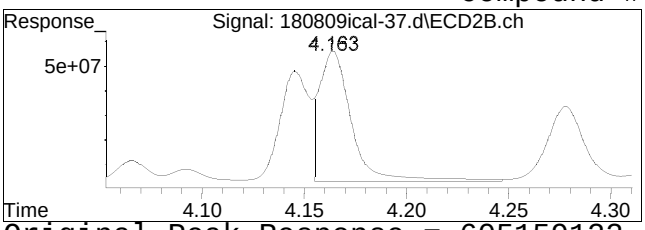
Compound #6: 1016-3

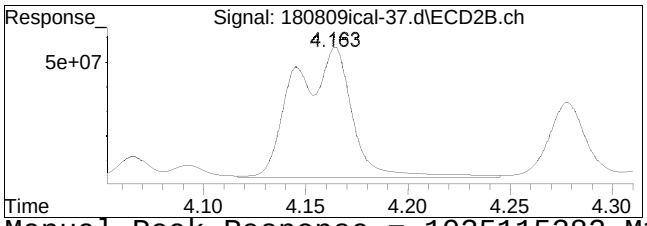




Original Peak Response = 305840588 Manual Peak Response = 527014869 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

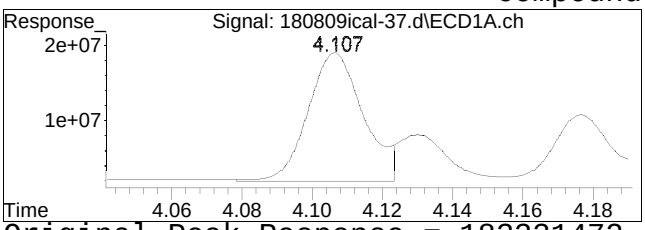
Compound #57: 1016-3 #2

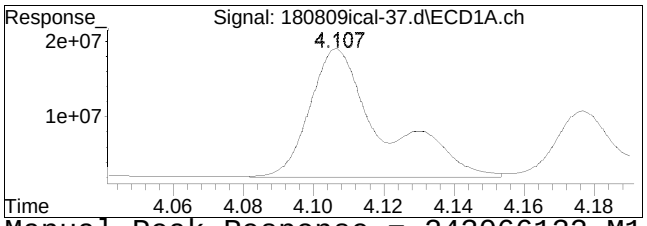




Original Peak Response = 605159122 Manual Peak Response = 1035115382 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Compound #8: 1016-5





Original Peak Response = 183331472 Manual Peak Response = 243066132 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Response Factor Report Pest 12

Method Path : I:\Pest12\181013ical\
Method File : P12_pcb_10-13-18_ugL_.m
Title : pcb
Last Update : Mon Oct 22 12:46:15 2018
Response Via : Initial Calibration

Calibration Files
1 =12181013ical-09.d 2 =12181013ical-10.d 3 =12181013ical-11.d 4 =12181013ical-12.d
5 =12181013ical-13.d 6 =12181013ical-14.d

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	i	1660_1br2nb	----------ISTD----------							
2)	s	2,4,5,6-Tetra...	1.133	1.085	1.061	1.013	1.021	0.965	1.046	5.68
3)	s	Decachlorobip...	0.675	0.645	0.637	0.612	0.593	0.588	0.625	5.36
4)	l1	1016-1	0.020	0.020	0.020	0.018	0.017	0.016	0.018	9.95
5)	l1	1016-2	0.046	0.043	0.041	0.038	0.036	0.034	0.040	11.52
6)	l1	1016-3	0.091	0.085	0.082	0.077	0.074	0.070	0.080	9.44
7)	l1	1016-4	0.038	0.034	0.034	0.033	0.031	0.029	0.033	8.93
8)	l1	1016-5	0.040	0.038	0.036	0.034	0.033	0.031	0.035	8.74
9)	l2	1260-2	0.079	0.075	0.072	0.068	0.064	0.062	0.070	9.40
10)	l2	1260-3	0.047	0.046	0.043	0.041	0.040	0.039	0.043	7.38
11)	l2	1260-4	0.104	0.101	0.097	0.095	0.094	0.088	0.096	5.60
12)	l2	1260-5	0.071	0.067	0.064	0.062	0.060	0.059	0.064	7.11
13)	i	2154_1br2nb	----------ISTD----------							
14)	l3	1221-1	0.011	0.012	0.011	0.011	0.010		0.011	7.00
15)	l3	1221-2	0.007	0.007	0.007	0.007	0.006		0.007	6.04
16)	l3	1221-3	0.027	0.027	0.026	0.024	0.022		0.025	9.01
17)	l4	1254-1	0.039	0.038	0.038	0.034	0.033	0.031	0.036	9.85
18)	l4	1254-2	0.073	0.067	0.067	0.062	0.057	0.053	0.063	11.40
19)	l4	1254-3	0.065	0.064	0.064	0.060	0.057	0.053	0.060	8.36
20)	l4	1254-4	0.049	0.048	0.051	0.047	0.045	0.042	0.047	7.08
21)	l4	1254-5	0.066	0.065	0.067	0.063	0.059	0.056	0.063	7.06
22)	i	4268_1br2nb	----------ISTD----------							
23)	l6	1242-1	0.016	0.016	0.015	0.014	0.013	0.012	0.014	11.96
24)	l6	1242-2	0.038	0.035	0.033	0.032	0.028	0.026	0.032	13.57
25)	l6	1242-3	0.073	0.071	0.067	0.064	0.059	0.055	0.065	10.47
26)	l6	1242-4	0.032	0.032	0.031	0.029	0.027	0.025	0.029	9.80
27)	l6	1242-5	0.024	0.024	0.021	0.023	0.020	0.019	0.022	9.84
28)	l9	1268-1	0.129	0.130	0.121	0.119	0.112	0.106	0.119	7.89
29)	l9	1268-2	0.135	0.128	0.121	0.121	0.114	0.108	0.121	7.88

Method Path : I:\Pest12\181013ical\
Method File : P12_pcb_10-13-18_ugL_.m
Title : pcb
Last Update : Mon Oct 22 12:46:15 2018
Response Via : Initial Calibration

Calibration Files
1 =12181013ical-09.d 2 =12181013ical-10.d 3 =12181013ical-11.d 4 =12181013ical-12.d
5 =12181013ical-13.d 6 =12181013ical-14.d

	Compound	1	2	3	4	5	6	Avg	%RSD
30) l9	1268-3	0.086	0.085	0.080	0.080	0.075	0.072	0.080	6.98
31) l9	1268-4	0.041	0.041	0.040	0.039	0.037	0.036	0.039	5.59
32) l9	1268-5	0.234	0.225	0.211	0.214	0.201	0.193	0.213	7.05
33) i	1248_1br2nb	----------ISTD----------							
34) l7	1248-1	0.025	0.023	0.021	0.021	0.018	0.019	0.021	12.39
35) l7	1248-2	0.031	0.029	0.028	0.028	0.024	0.026	0.028	9.16
36) l7	1248-3	0.049	0.047	0.043	0.041	0.037	0.040	0.043	10.82
37) l7	1248-4	0.044	0.041	0.039	0.034	0.033	0.036	0.038	11.15
38) l7	1248-5	0.035	0.034	0.034	0.029	0.028	0.030	0.032	8.81
39) i	3262_1br2nb	----------ISTD----------							
40) l5	1232-1	0.024	0.023	0.022	0.019	0.016	0.017	*L	0.9934
41) l5	1232-2	0.023	0.022	0.021	0.018	0.016	0.017	*L	0.9946
42) l5	1232-3	0.047	0.043	0.042	0.038	0.033	0.036	*L	0.9953
43) l5	1232-4	0.017	0.018	0.017	0.016	0.013	0.015	*L	0.9943
44) l5	1232-5	0.013	0.014	0.012	0.011	0.010	0.011	*L	0.9961
45) l8	1262-1	0.063	0.055	0.054	0.048	0.041	0.046	0.051	15.22
46) l8	1262-2	0.072	0.066	0.065	0.059	0.050	0.056	0.061	12.85
47) l8	1262-3	0.065	0.058	0.058	0.052	0.044	0.051	0.054	12.92
48) l8	1262-4	0.129	0.108	0.113	0.105	0.091	0.105	0.109	11.33
49) l8	1262-5	0.047	0.044	0.044	0.039	0.035	0.037	0.041	11.62

Signal #2 Calibration Files
1 =12181013ical-09.d 2 =12181013ical-10.d 3 =12181013ical-11.d 4 =12181013ical-12.d
5 =12181013ical-13.d 6 =12181013ical-14.d

	Compound	1	2	3	4	5	6	Avg	%RSD
1) i	1660_1br2nb	----------ISTD----------							
2) s	2,4,5,6-Tetra...	1.226	1.179	1.150	1.083	1.086	1.021	1.124	6.63
3) s	Decachlorobip...	0.732	0.696	0.668	0.640	0.625	0.630	0.665	6.38

Method Path : I:\Pest12\181013ical\
Method File : P12_pcb_10-13-18_ugL_.m
Title : pcb
Last Update : Mon Oct 22 12:46:15 2018
Response Via : Initial Calibration

Calibration Files
1 =12181013ical-09.d 2 =12181013ical-10.d 3 =12181013ical-11.d 4 =12181013ical-12.d
5 =12181013ical-13.d 6 =12181013ical-14.d

	Compound		1	2	3	4	5	6	Avg	%RSD
4)	l1	1016-1	0.020	0.021	0.021	0.019	0.018	0.017	0.019	8.31
5)	l1	1016-2	0.049	0.047	0.045	0.042	0.041	0.038	0.043	9.64
6)	l1	1016-3	0.104	0.097	0.093	0.086	0.084	0.079	0.091	10.08
7)	l1	1016-4	0.037	0.035	0.035	0.033	0.032	0.030	0.034	7.75
8)	l1	1016-5	0.026	0.026	0.027	0.026	0.025	0.024	0.025	4.82
9)	l2	1260-2	0.056	0.061	0.059	0.055	0.053	0.052	0.056	6.10
10)	l2	1260-3	0.038	0.045	0.044	0.041	0.040	0.039	0.041	6.76
11)	l2	1260-4	0.099	0.094	0.093	0.088	0.086	0.085	0.091	5.91
12)	l2	1260-5	0.063	0.064	0.063	0.058	0.058	0.058	0.061	4.98
13)	i	2154_1br2nb	----------ISTD----------							
14)	l3	1221-1	0.016	0.013	0.013	0.012	0.011		0.013	14.56
15)	l3	1221-2	0.008	0.008	0.008	0.007	0.007		0.007	5.93
16)	l3	1221-3	0.030	0.029	0.029	0.026	0.025		0.028	8.08
17)	l4	1254-1	0.042	0.041	0.043	0.041	0.038	0.036	0.040	6.41
18)	l4	1254-2	0.051	0.049	0.049	0.046	0.044	0.041	0.047	8.33
19)	l4	1254-3	0.073	0.071	0.072	0.068	0.066	0.061	0.069	6.39
20)	l4	1254-4	0.046	0.047	0.047	0.045	0.045	0.040	0.045	5.94
21)	l4	1254-5	0.063	0.061	0.061	0.058	0.056	0.053	0.059	6.33
22)	i	4268_1br2nb	----------ISTD----------							
23)	l6	1242-1	0.014	0.017	0.017	0.016	0.015	0.013	0.015	9.14
24)	l6	1242-2	0.037	0.038	0.037	0.035	0.033	0.029	0.035	9.27
25)	l6	1242-3	0.080	0.079	0.075	0.073	0.068	0.061	0.073	9.52
26)	l6	1242-4	0.020	0.022	0.022	0.022	0.021	0.019	0.021	5.42
27)	l6	1242-5	0.024	0.023	0.022	0.022	0.021	0.019	0.022	7.41
28)	l9	1268-1	0.127	0.120	0.117	0.117	0.110	0.103	0.116	7.31
29)	l9	1268-2	0.134	0.128	0.122	0.125	0.120	0.112	0.123	6.06
30)	l9	1268-3	0.086	0.086	0.081	0.083	0.079	0.075	0.081	5.08
31)	l9	1268-4	0.037	0.037	0.036	0.037	0.035	0.034	0.036	4.18
32)	l9	1268-5	0.238	0.227	0.216	0.222	0.212	0.198	0.219	6.20
33)	i	1248_1br2nb	----------ISTD----------							

Method Path : I:\Pest12\181013ical\
Method File : P12_pcb_10-13-18_ugL_.m
Title : pcb
Last Update : Mon Oct 22 12:46:15 2018
Response Via : Initial Calibration

Calibration Files
1 =12181013ical-09.d 2 =12181013ical-10.d 3 =12181013ical-11.d 4 =12181013ical-12.d
5 =12181013ical-13.d 6 =12181013ical-14.d

	Compound	1	2	3	4	5	6	Avg	%RSD
34)	l7 1248-1	0.028	0.025	0.021	0.023	0.021	0.024	0.024	11.05
35)	l7 1248-2	0.031	0.030	0.025	0.026	0.024	0.026	0.027	10.75
36)	l7 1248-3	0.035	0.036	0.030	0.031	0.029	0.032	0.032	9.08
37)	l7 1248-4	0.041	0.042	0.035	0.036	0.033	0.036	0.037	9.07
38)	l7 1248-5	0.042	0.046	0.039	0.040	0.036	0.039	0.040	8.14
39)	i 3262_1br2nb	----------ISTD----------							
40)	l5 1232-1	0.025	0.023	0.024	0.022	0.018	0.019	0.022	11.68
41)	l5 1232-2	0.024	0.024	0.024	0.022	0.018	0.020	0.022	10.79
42)	l5 1232-3	0.052	0.047	0.048	0.042	0.037	0.040	0.044	12.73
43)	l5 1232-4	0.019	0.018	0.018	0.016	0.014	0.015	0.017	11.81
44)	l5 1232-5	0.013	0.012	0.013	0.012	0.011	0.012	0.012	8.06
45)	l8 1262-1	0.045	0.045	0.045	0.042	0.036	0.040	0.042	8.58
46)	l8 1262-2	0.062	0.061	0.060	0.055	0.048	0.054	0.057	9.35
47)	l8 1262-3	0.056	0.052	0.054	0.047	0.041	0.047	0.050	10.88
48)	l8 1262-4	0.113	0.103	0.103	0.092	0.081	0.092	0.097	11.49
49)	l8 1262-5	0.081	0.073	0.072	0.065	0.055	0.065	0.068	12.89

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 11:31 am
Operator : Pest12:kb
Sample : il14268,42e,,8669
Misc : WG1170894,
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 10:47:04 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 10:42:01 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	2.070	2.224	811.1E6	1211.3E6	250.000M4	250.000M4
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 11:31 am
Operator : Pest12:kb
Sample : il14268,42e,,8669
Misc : WG1170894,
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 10:47:04 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 10:42:01 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	2.780	3.231	5126238	6956964	112.033M4	92.692M4
25) l6	1242-2	3.024	3.558	12270791	18018232	122.664M4	107.655M4
26) l6	1242-3	3.367	3.952	23546398	38651273	114.420M4	111.734M1
27) l6	1242-4	3.788	4.453	10446917	9844128	111.402M4	96.299M4
28) l6	1242-5	4.127	4.752	7861675	11532044	112.599M3	110.583M4
Sum	1242-1			59252019	85002641	573.117	518.962
Average	1242-1					114.623	103.792
29) l9	1268-1	5.856	6.496	41867094	61648417	109.753M3	112.235M4
30) l9	1268-2	5.883	6.528	43752618	65106818	113.838M3	110.861M4
31) l9	1268-3	6.016	6.701	27995385	41631910	110.247	106.599
32) l9	1268-4	6.252	6.880	13303184	17937067	106.297M4	103.594
33) l9	1268-5	6.441	7.101	75972529	115.1E6	112.091M4	110.538
Sum	1268-1			202.9E6	301.5E6	N.D.	N.D. D

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 11:31 am
Operator : Pest12:kb
Sample : il14268,42e,,8669
Misc : WG1170894,
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 10:47:04 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 10:42:01 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1268-1					110.445	108.765
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 11:31 am
Operator : Pest12:kb
Sample : il14268,42e,,8669
Misc : WG1170894,
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 10:47:04 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 10:42:01 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

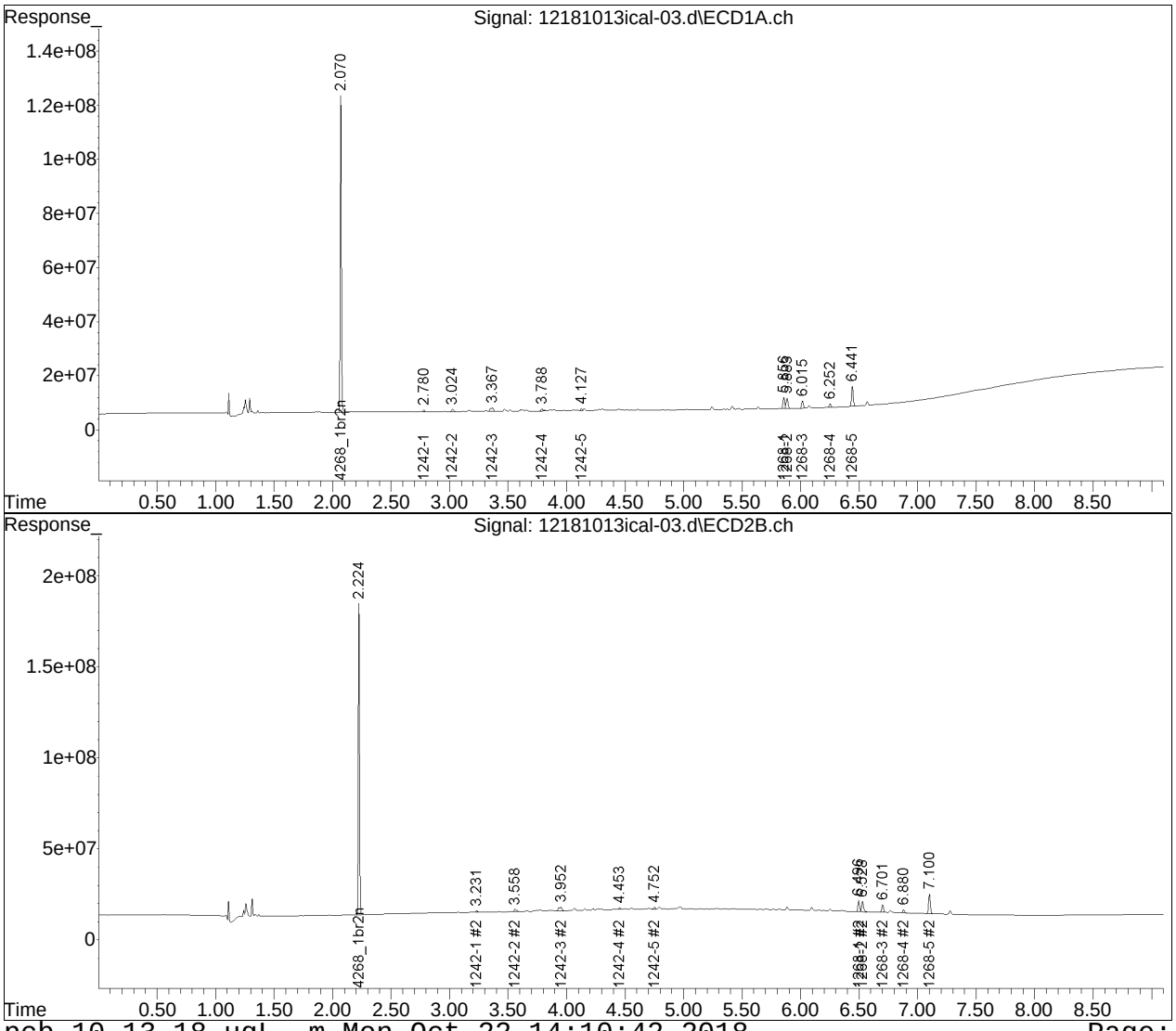
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 11:31 am
Operator : Pest12:kb
Sample : il14268,42e,,8669
Misc : WG1170894,
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 10:47:04 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 10:42:01 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

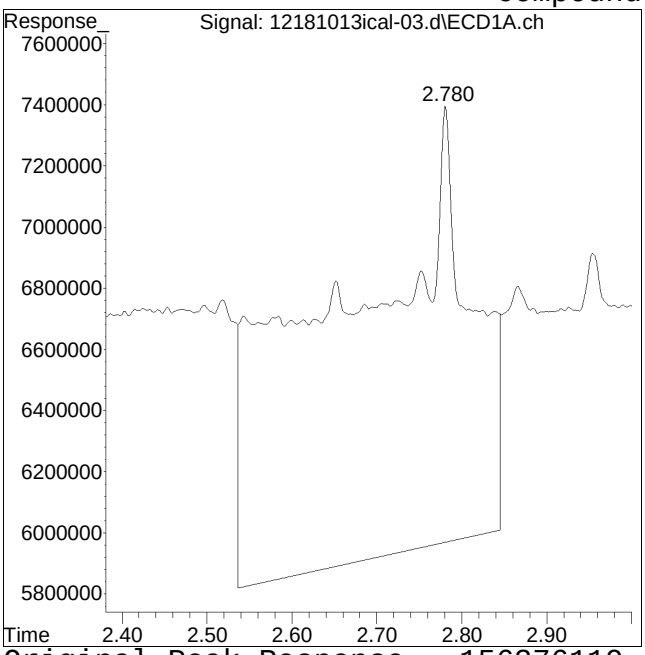


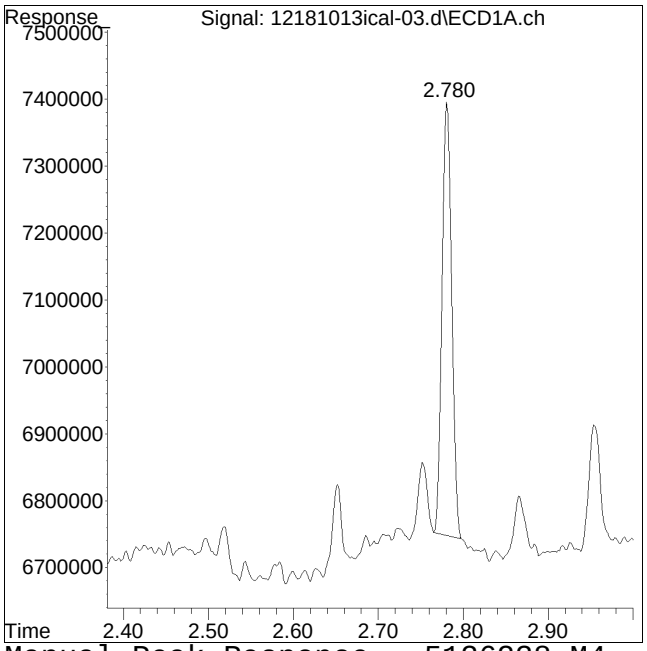
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-03.d
Date Inj'd : 10/13/2018 11:31 am
Sample : il14268,42e,,8669

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:42 am

Compound #24: 1242-1





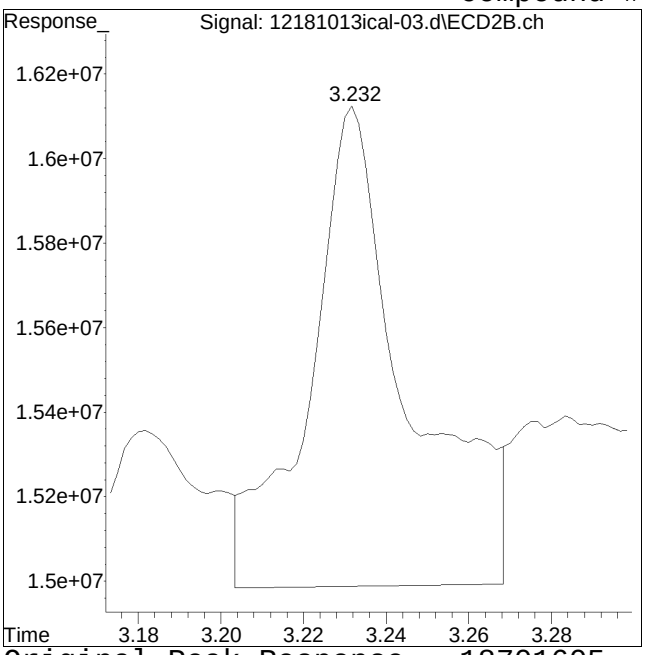
Original Peak Response = 156376119 Manual Peak Response = 5126238 M4
M4 = Poor automated baseline construction.

Manual Integration Report

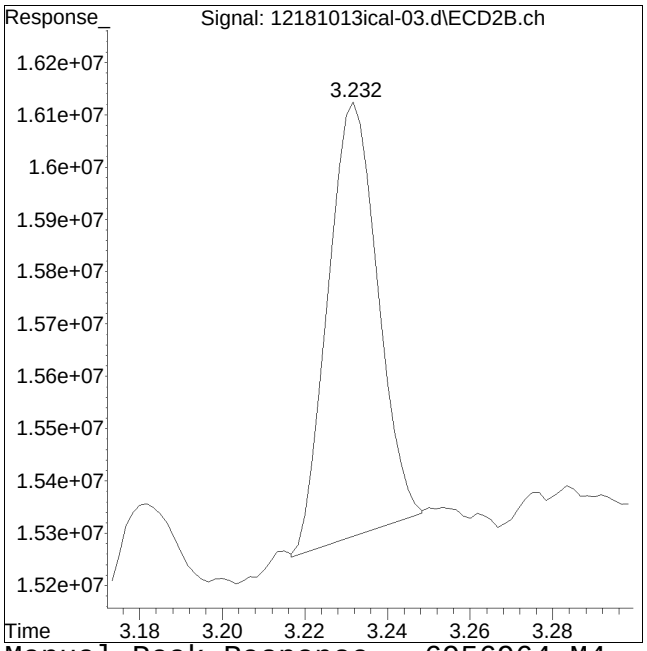
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-03.d
Date Inj'd : 10/13/2018 11:31 am
Sample : il14268,42e,,8669

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:42 am

Compound #75: 1242-1 #2



Original Peak Response = 18701605



Manual Peak Response = 6956964 M4

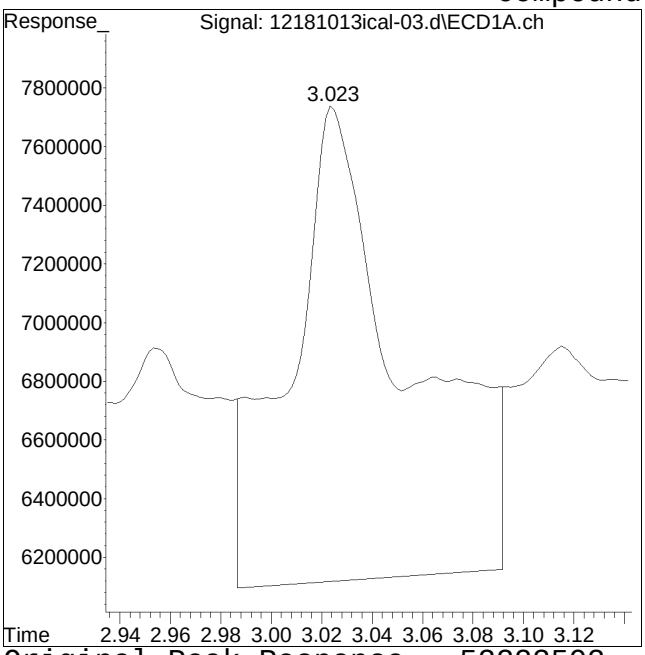
M4 = Poor automated baseline construction.

Manual Integration Report

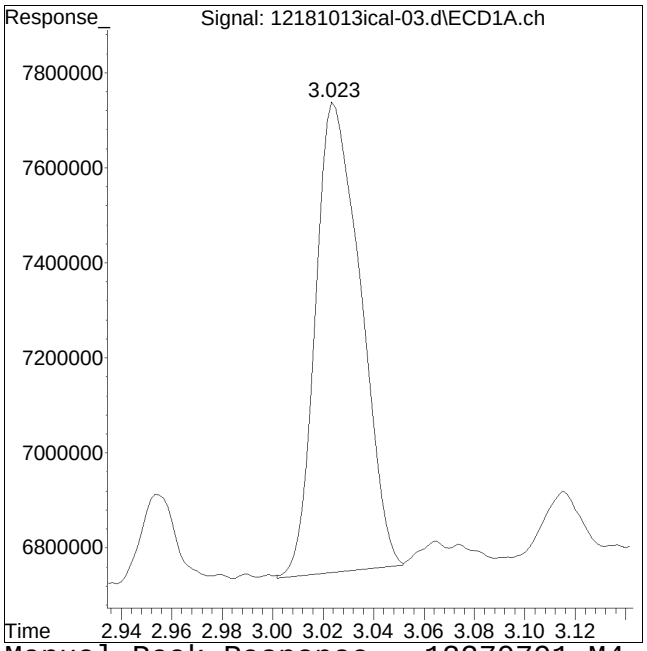
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-03.d
Date Inj'd : 10/13/2018 11:31 am
Sample : il14268,42e,,8669

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:42 am

Compound #25: 1242-2



Original Peak Response = 52223592



Manual Peak Response = 12270791 M4

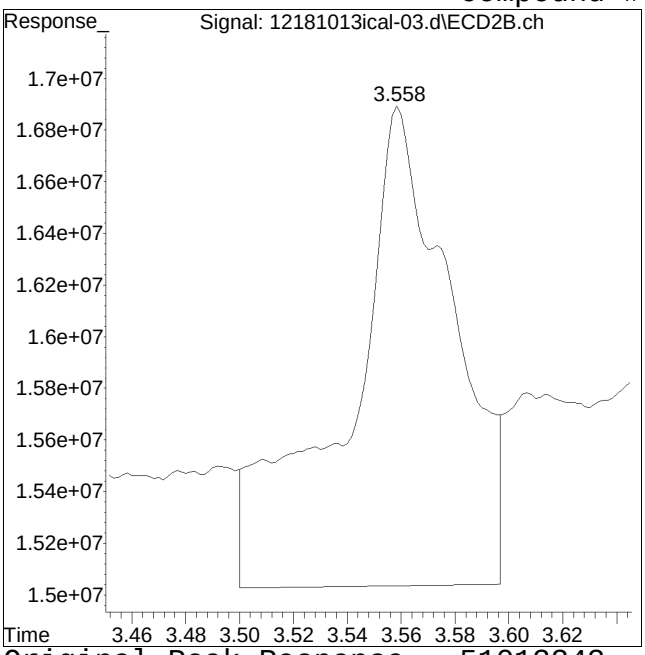
M4 = Poor automated baseline construction.

Manual Integration Report

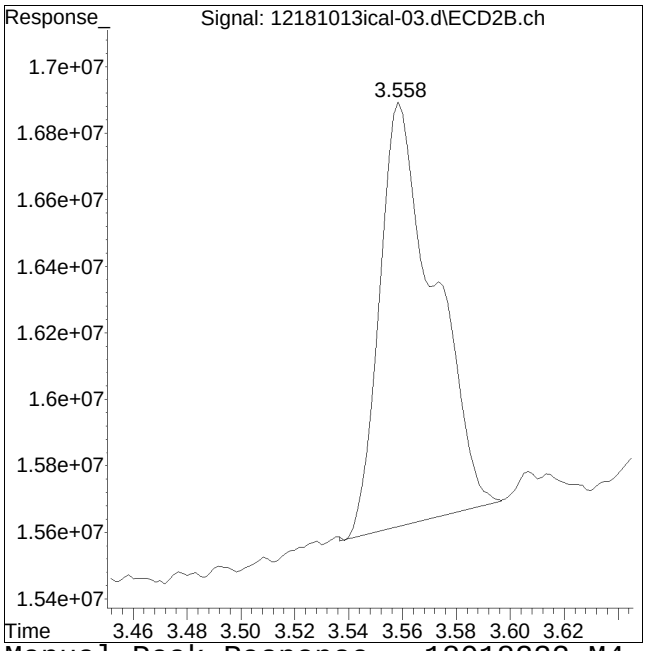
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-03.d
Date Inj'd : 10/13/2018 11:31 am
Sample : il14268,42e,,8669

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:42 am

Compound #76: 1242-2 #2



Original Peak Response = 51013243



Manual Peak Response = 18018232 M4

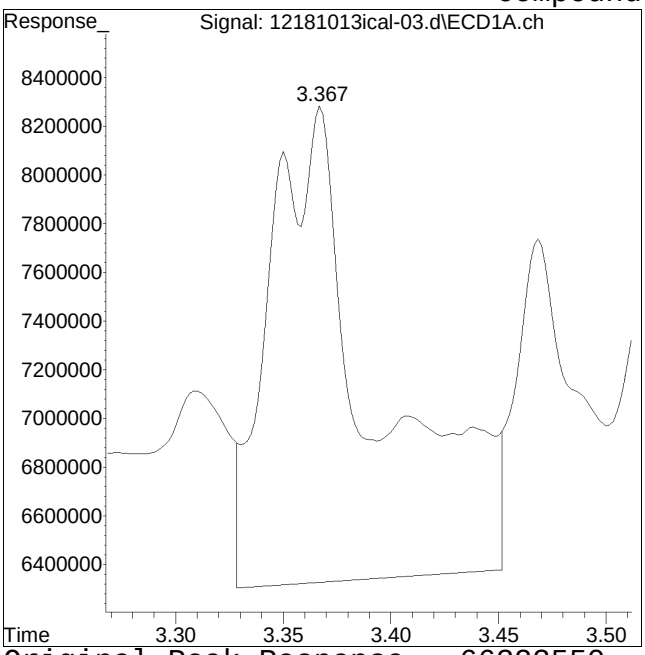
M4 = Poor automated baseline construction.

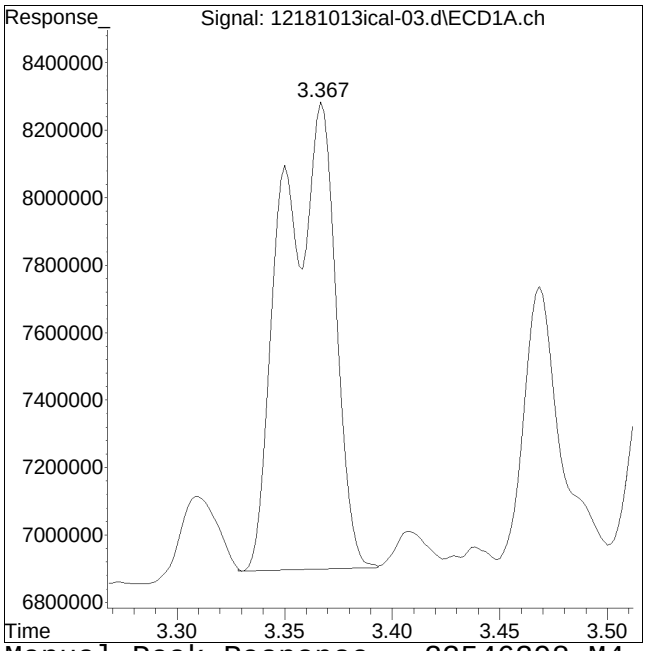
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-03.d
Date Inj'd : 10/13/2018 11:31 am
Sample : il14268,42e,,8669

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:42 am

Compound #26: 1242-3





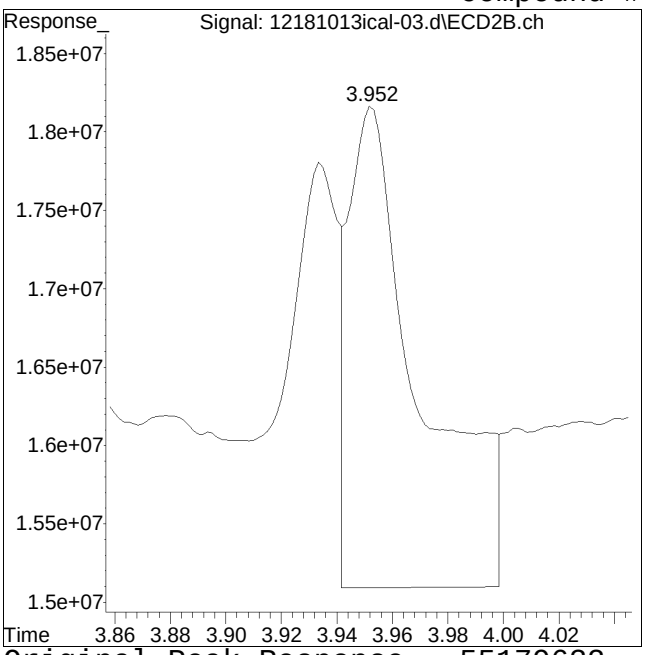
Original Peak Response = 66323550 Manual Peak Response = 23546398 M4
M4 = Poor automated baseline construction.

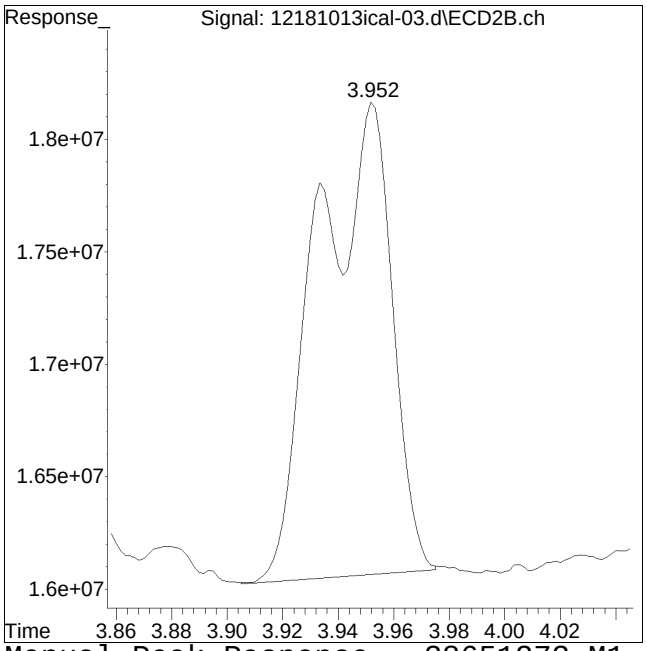
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-03.d
Date Inj'd : 10/13/2018 11:31 am
Sample : il14268,42e,,8669

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:42 am

Compound #77: 1242-3 #2





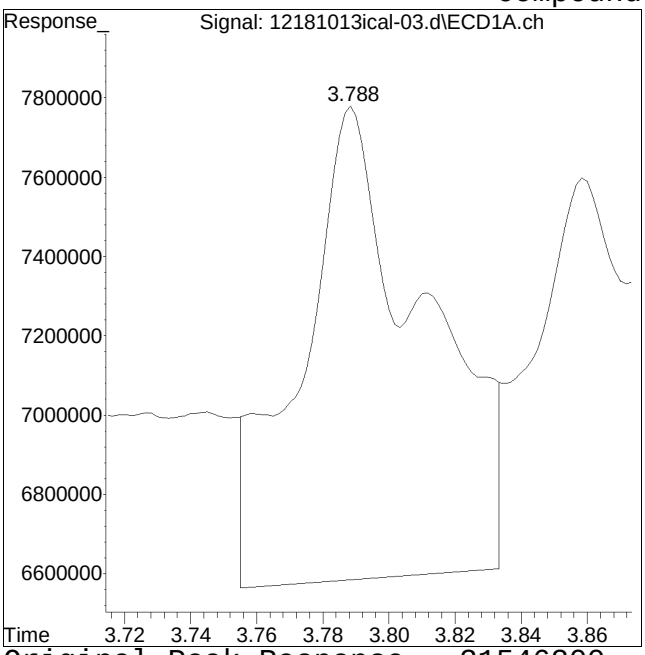
Original Peak Response = 55179632 Manual Peak Response = 38651273 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

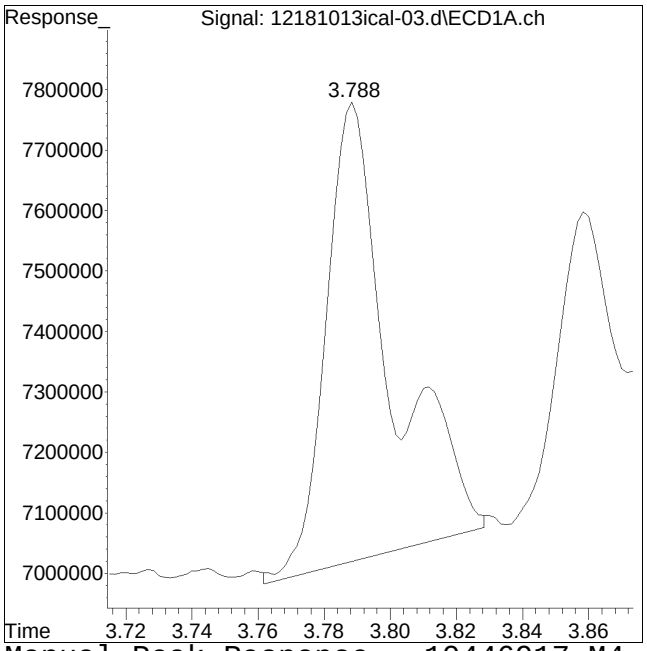
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-03.d
Date Inj'd : 10/13/2018 11:31 am
Sample : il14268,42e,,8669

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:42 am

Compound #27: 1242-4



Original Peak Response = 31546200



Manual Peak Response = 10446917 M4

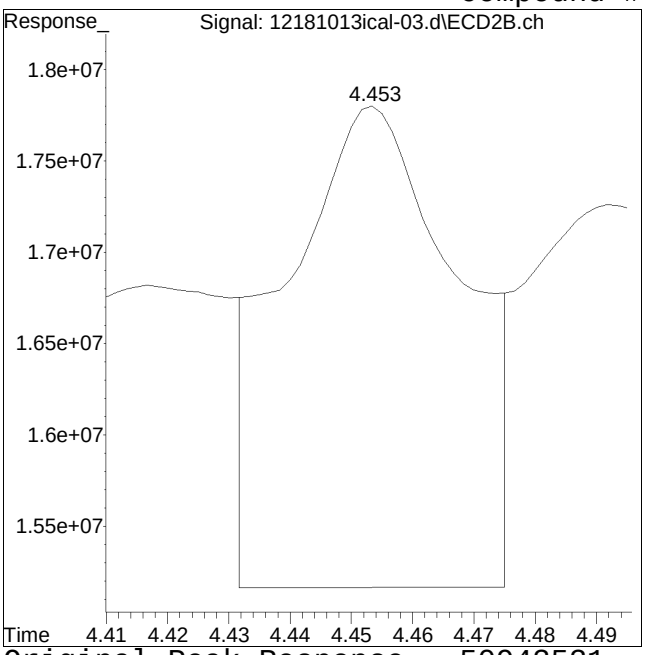
M4 = Poor automated baseline construction.

Manual Integration Report

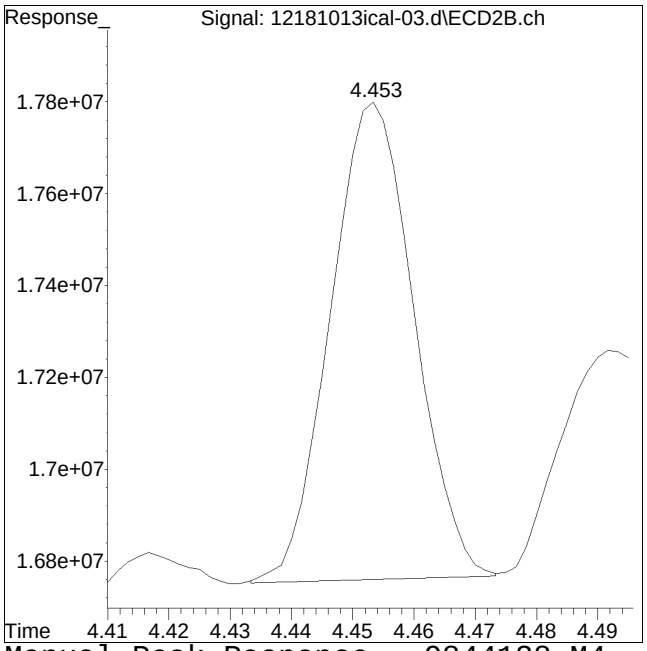
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-03.d
Date Inj'd : 10/13/2018 11:31 am
Sample : il14268,42e,,8669

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:42 am

Compound #78: 1242-4 #2



Original Peak Response = 50943531



Manual Peak Response = 9844128 M4

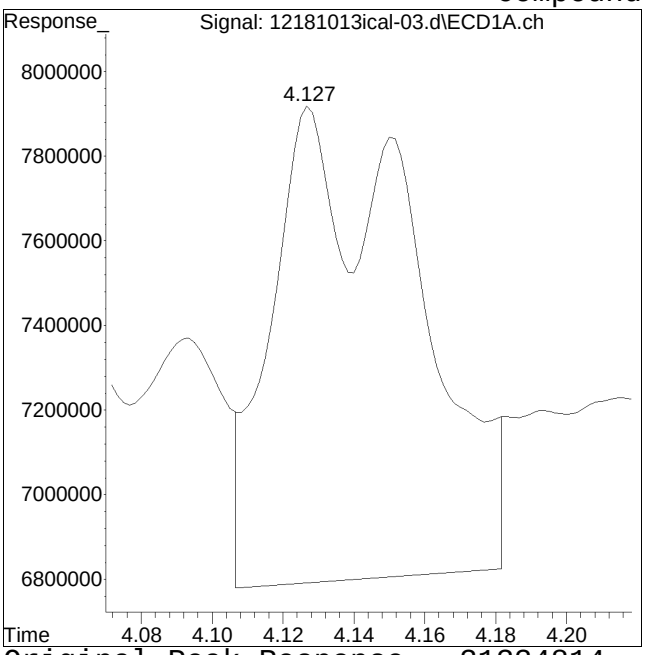
M4 = Poor automated baseline construction.

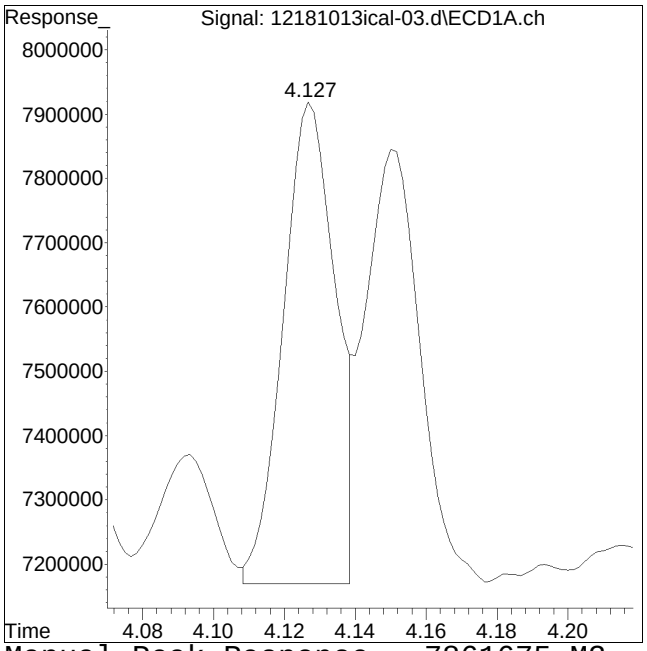
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-03.d
Date Inj'd : 10/13/2018 11:31 am
Sample : il14268,42e,,8669

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:42 am

Compound #28: 1242-5





Original Peak Response = 31334814 Manual Peak Response = 7861675 M3

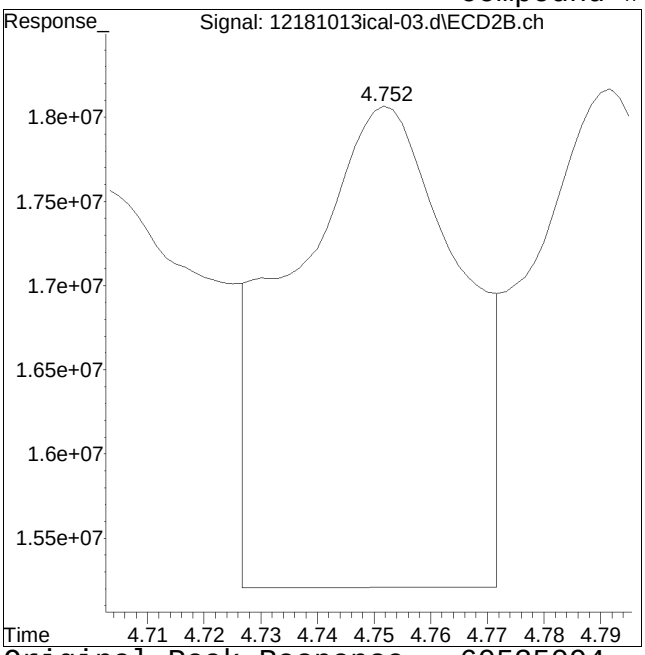
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

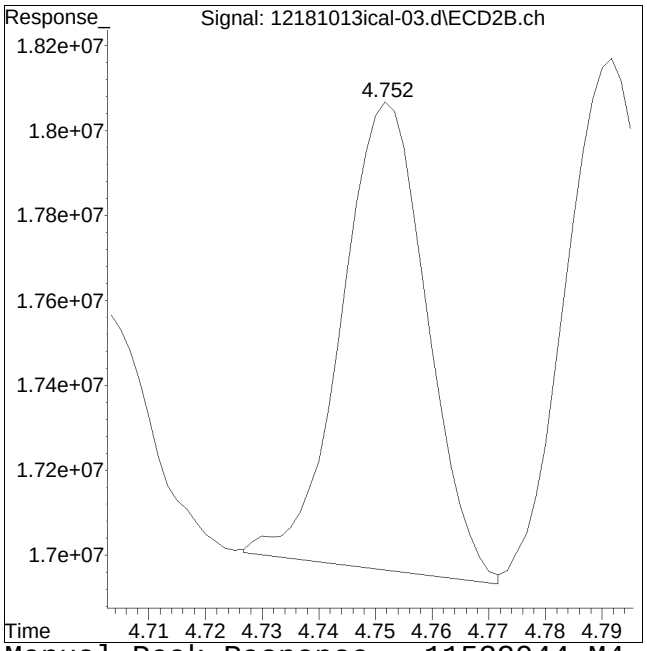
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-03.d
Date Inj'd : 10/13/2018 11:31 am
Sample : il14268,42e,,8669

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:42 am

Compound #79: 1242-5 #2



Original Peak Response = 60535094



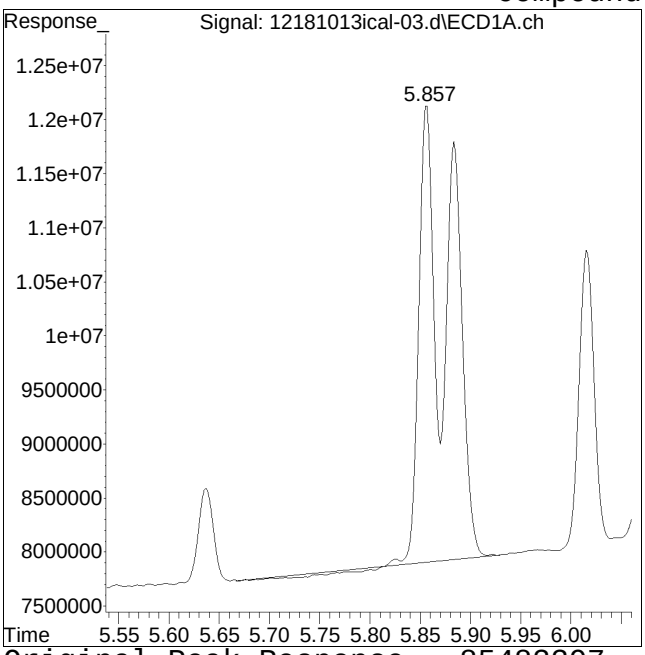
Manual Peak Response = 11532044 M4

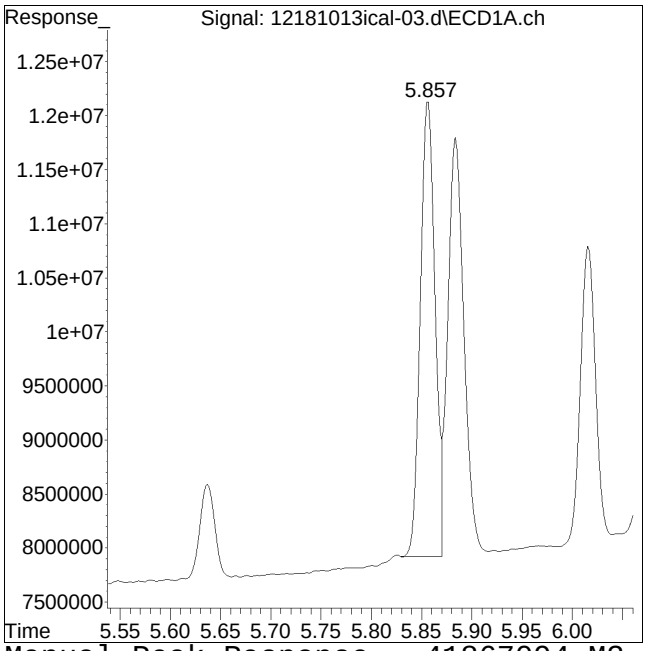
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path	: I:\Pest12\181013ical\	QMethod	: P12_pcb_10-13-18_ugL_.m
Data File	: 12181013ical-03.d	Operator	: Pest12:kb
Date Inj'd	: 10/13/2018 11:31 am	Instrument	: Pest 12
Sample	: il14268,42e,,8669	Quant Date	: 10/16/2018 10:42 am

Compound #29: 1268-1





Original Peak Response = 85483397 Manual Peak Response = 41867094 M3

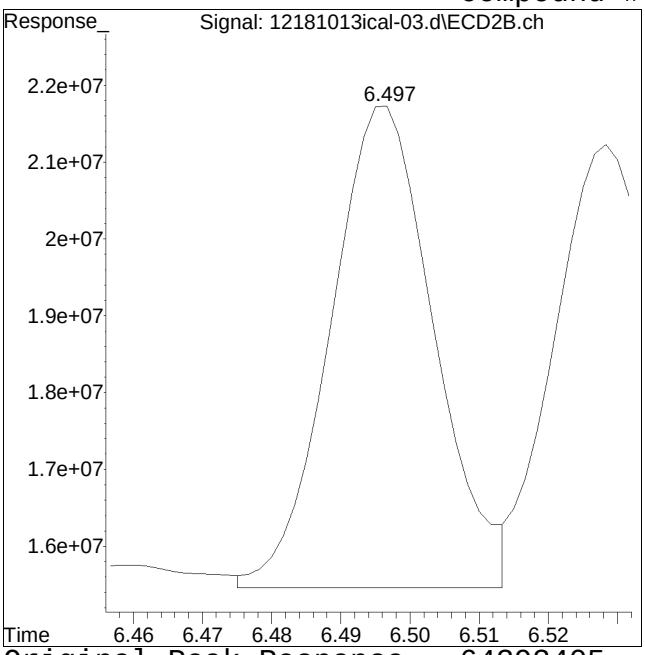
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

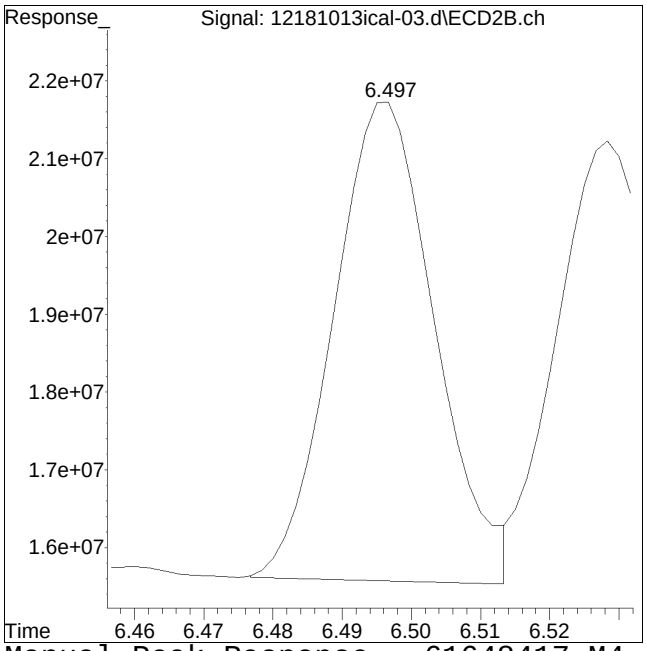
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-03.d
Date Inj'd : 10/13/2018 11:31 am
Sample : il14268,42e,,8669

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:42 am

Compound #80: 1268-1 #2



Original Peak Response = 64393405



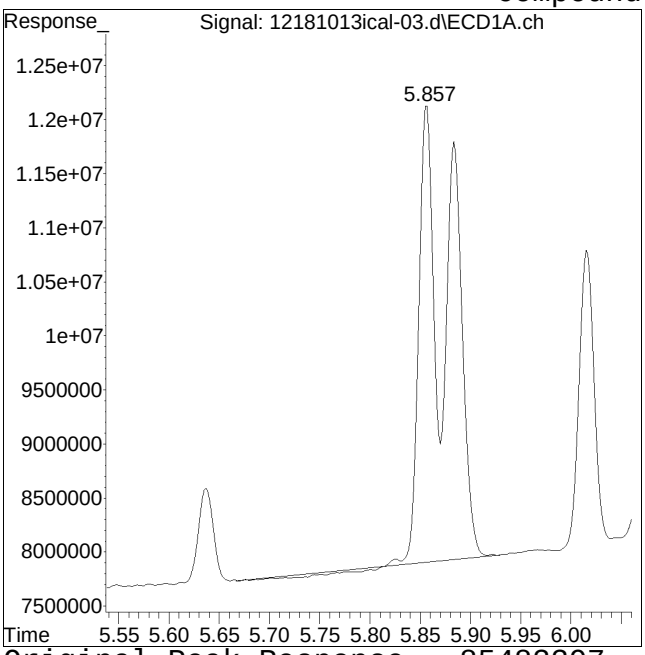
Manual Peak Response = 61648417 M4

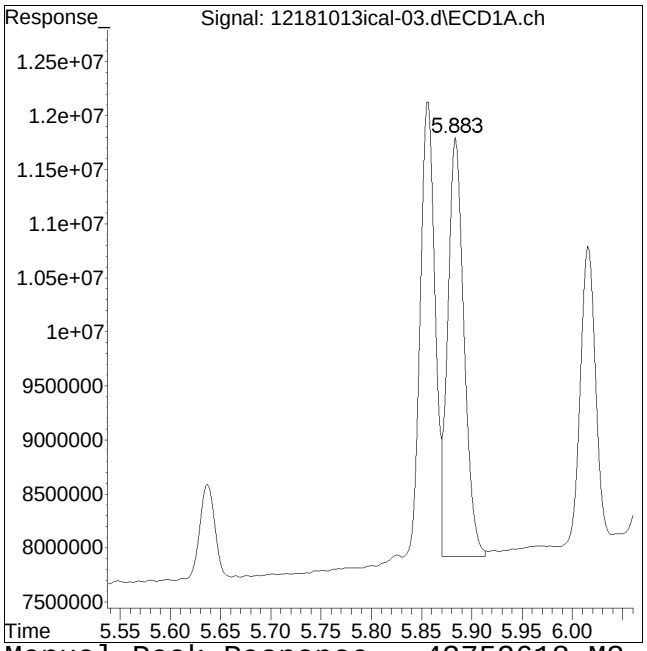
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path	: I:\Pest12\181013ical\	QMethod	: P12_pcb_10-13-18_ugL_.m
Data File	: 12181013ical-03.d	Operator	: Pest12:kb
Date Inj'd	: 10/13/2018 11:31 am	Instrument	: Pest 12
Sample	: il14268,42e,,8669	Quant Date	: 10/16/2018 10:42 am

Compound #30: 1268-2





Original Peak Response = 85483397 Manual Peak Response = 43752618 M3

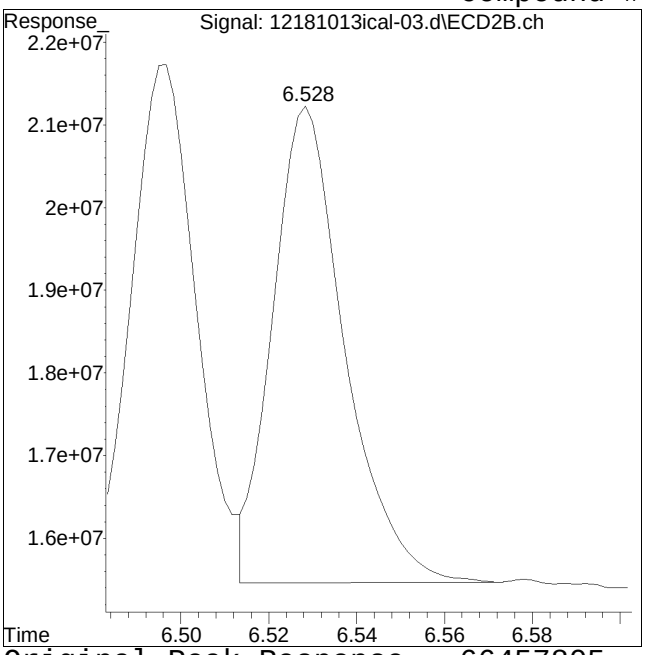
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

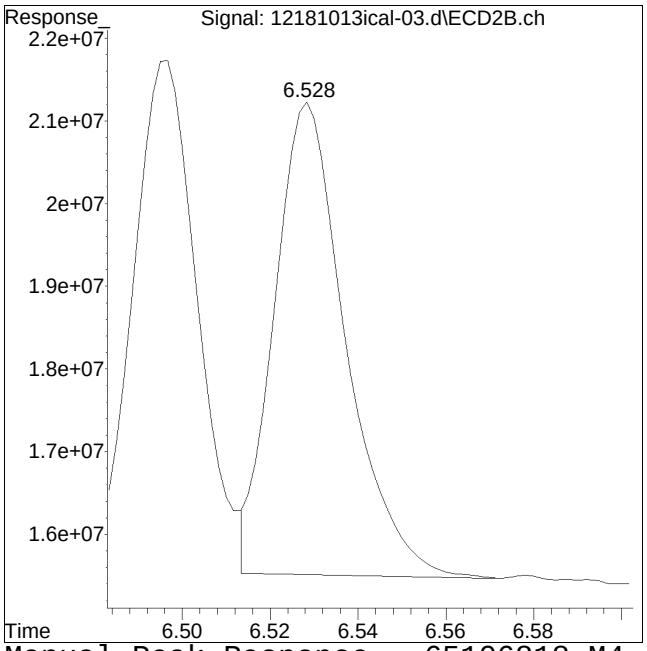
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-03.d
Date Inj'd : 10/13/2018 11:31 am
Sample : il14268,42e,,8669

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:42 am

Compound #81: 1268-2 #2



Original Peak Response = 66457805



Manual Peak Response = 65106818 M4

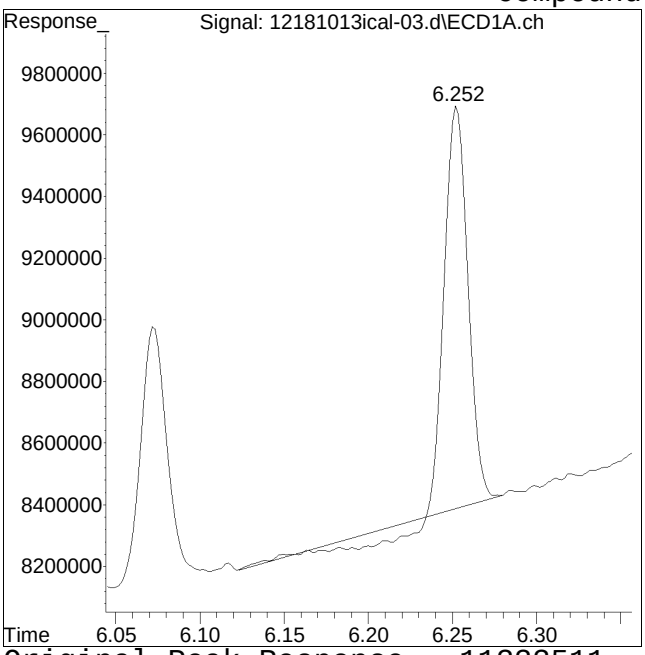
M4 = Poor automated baseline construction.

Manual Integration Report

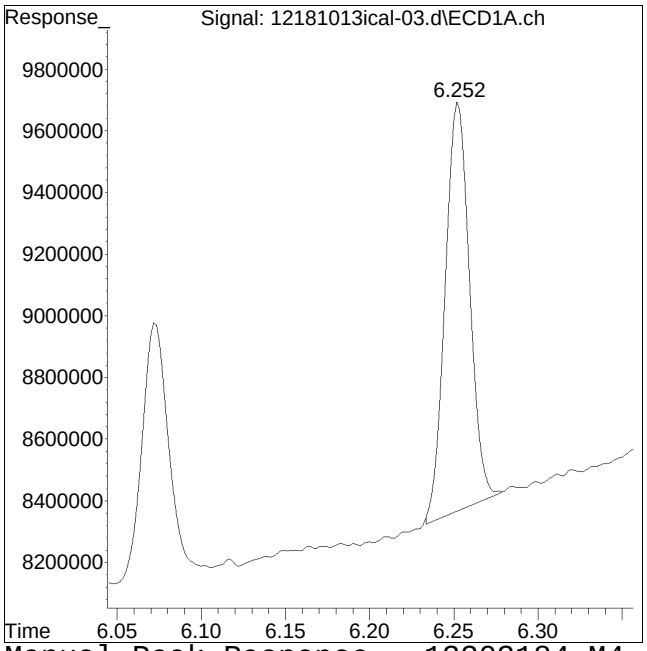
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-03.d
Date Inj'd : 10/13/2018 11:31 am
Sample : il14268,42e,,8669

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:42 am

Compound #32: 1268-4



Original Peak Response = 11333511



Manual Peak Response = 13303184 M4

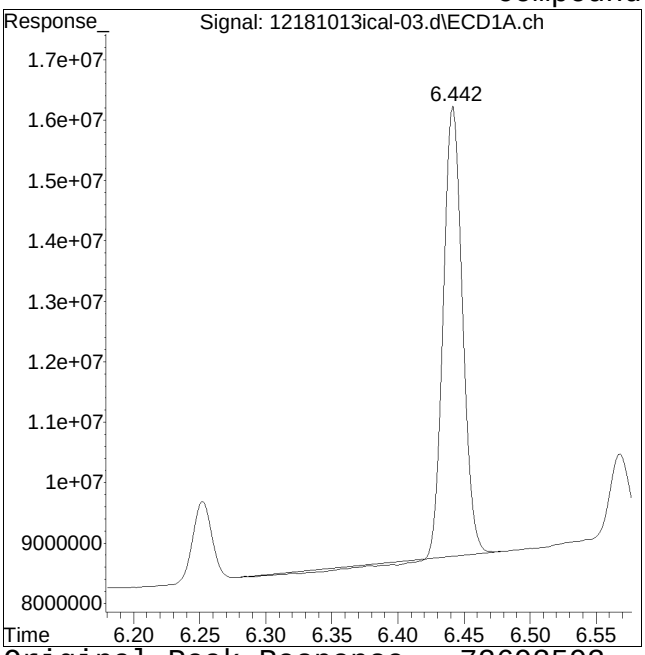
M4 = Poor automated baseline construction.

Manual Integration Report

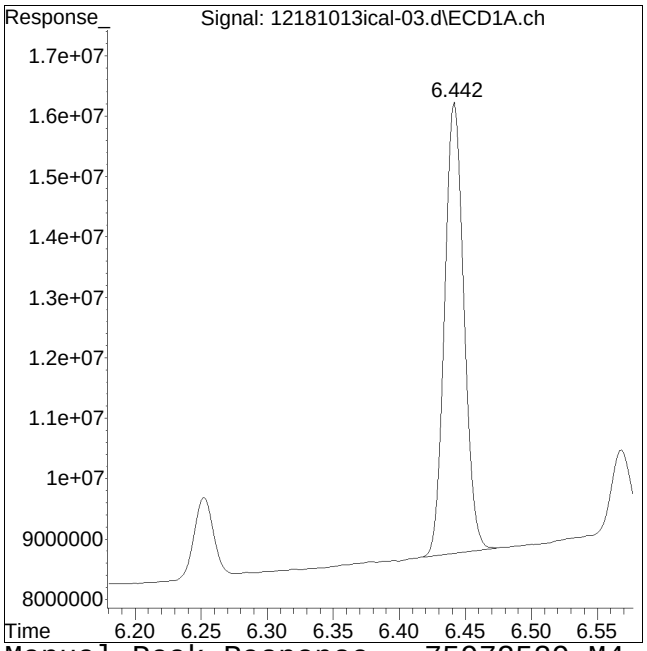
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-03.d
Date Inj'd : 10/13/2018 11:31 am
Sample : il14268,42e,,8669

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:42 am

Compound #33: 1268-5



Original Peak Response = 72693593



Manual Peak Response = 75972529 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 11:43 am
Operator : Pest12:kb
Sample : il24268,42e,,8668
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 10:41:54 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 10:35:41 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	2.070	2.225	761.7E6	1152.9E6	250.000M4	250.000M4
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 11:43 am
Operator : Pest12:kb
Sample : il24268,42e,,8668
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 10:41:54 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 10:35:41 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	2.781	3.231	24435638	38716643	588.854M4	553.604M4
25) l6	1242-2	3.024	3.558	53534035	87763792	590.442M4	565.338M4
26) l6	1242-3	3.367	3.952	108.5E6	182.1E6	579.088M4	568.176M1
27) l6	1242-4	3.790	4.453	49381764	50422551	578.271	523.015M4
28) l6	1242-5	4.128	4.752	36503781	52984189	572.951M3	543.004M4
Sum	1242-1			272.3E6	412.0E6	2909.606	2753.138
Average	1242-1					581.921	550.628
29) l9	1268-1	5.856	6.496	197.8E6	277.4E6	566.849M4	538.812M4
30) l9	1268-2	5.884	6.528	195.4E6	294.0E6	552.631	532.936M4
31) l9	1268-3	6.016	6.701	129.4E6	197.2E6	554.278	538.667M4
32) l9	1268-4	6.252	6.880	62130764	86407988	536.290M4	530.787M4
33) l9	1268-5	6.442	7.101	342.8E6	523.0E6	549.181M4	534.909M4
Sum	1268-1			927.5E6	1377.9E6	N.D.	N.D. D

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 11:43 am
Operator : Pest12:kb
Sample : il24268,42e,,8668
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 10:41:54 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 10:35:41 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1268-1					551.846	535.222
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 11:43 am
Operator : Pest12:kb
Sample : il24268,42e,,8668
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 10:41:54 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 10:35:41 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

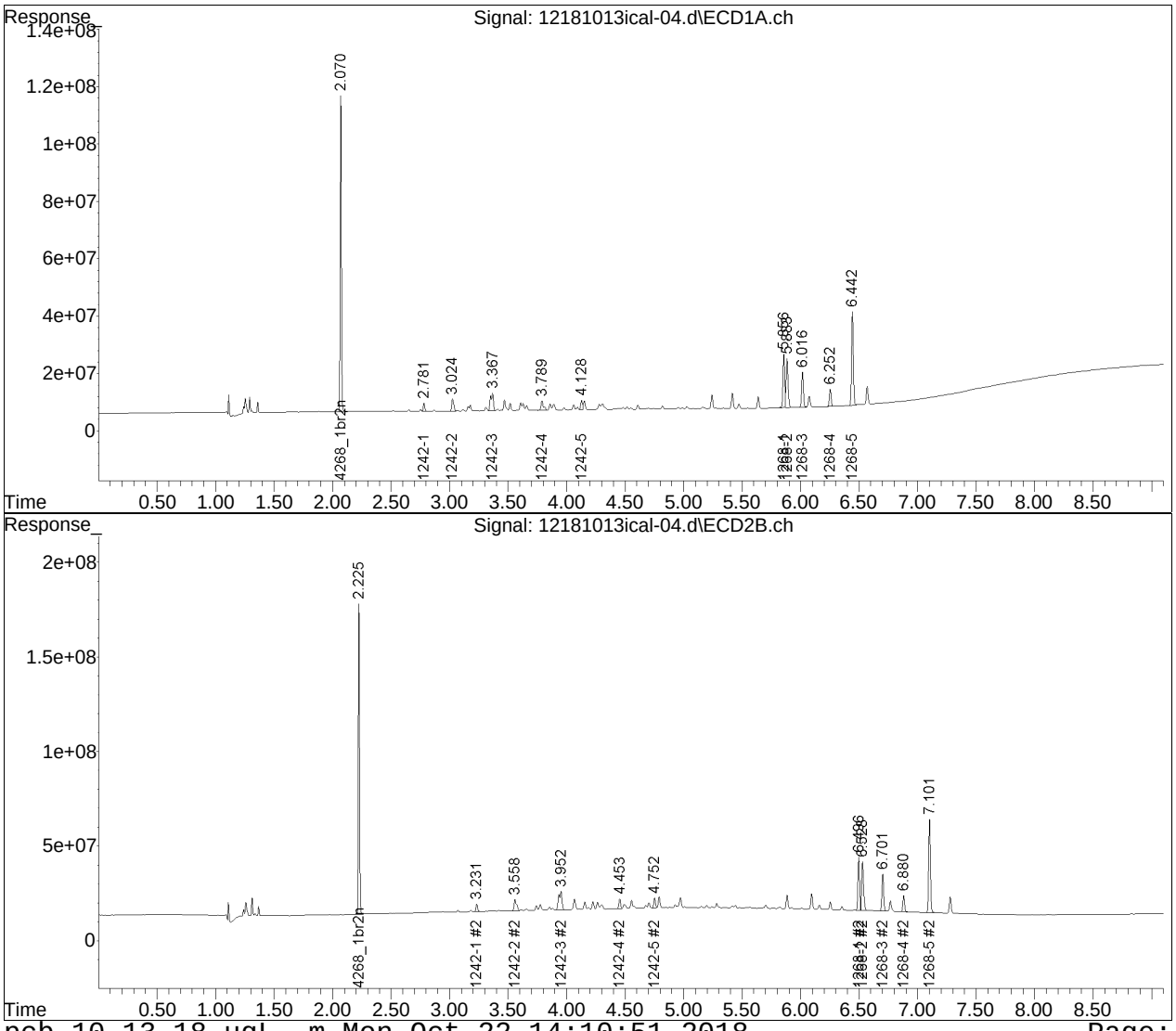
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 11:43 am
Operator : Pest12:kb
Sample : il24268,42e,,8668
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 10:41:54 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 10:35:41 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

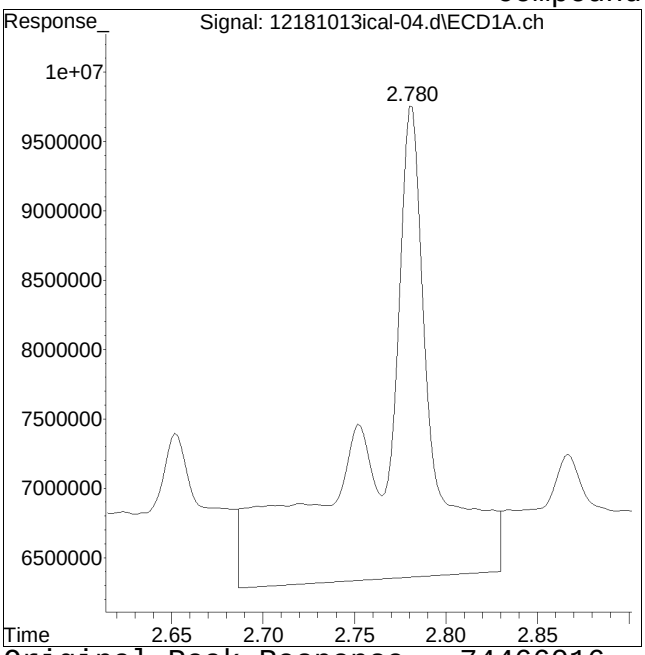


Manual Integration Report

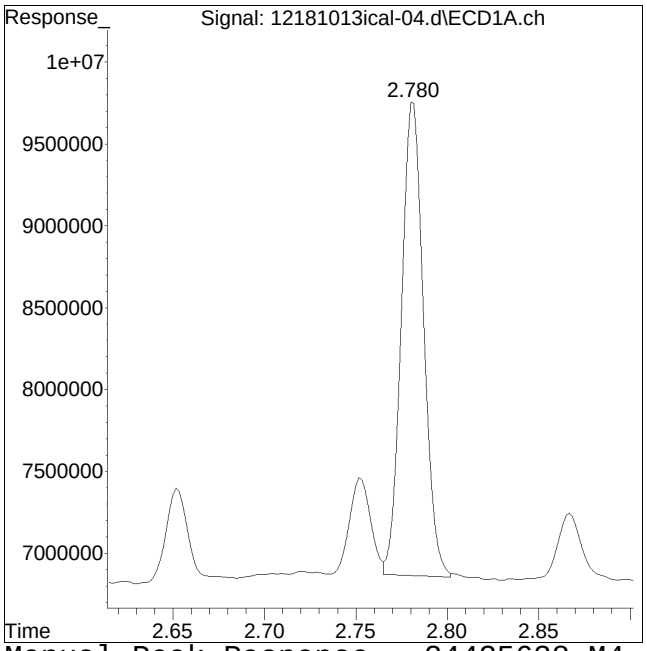
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-04.d
Date Inj'd : 10/13/2018 11:43 am
Sample : il24268,42e,,8668

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:35 am

Compound #24: 1242-1



Original Peak Response = 74466016



Manual Peak Response = 24435638 M4

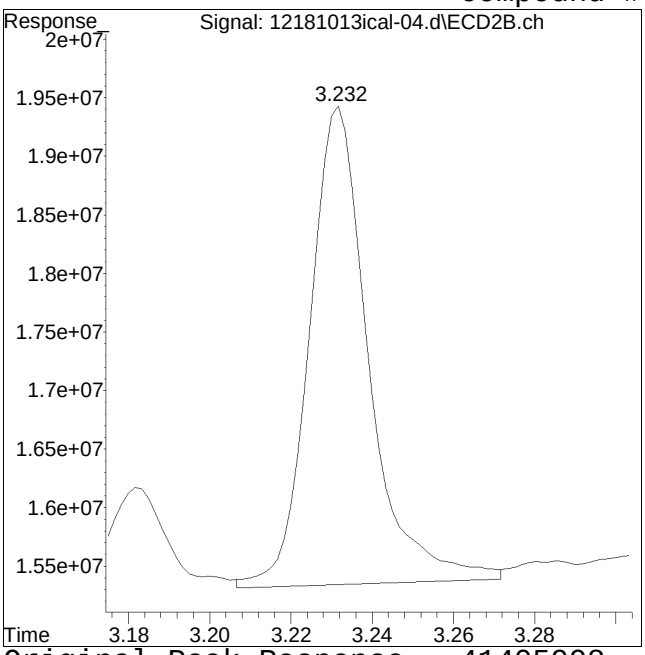
M4 = Poor automated baseline construction.

Manual Integration Report

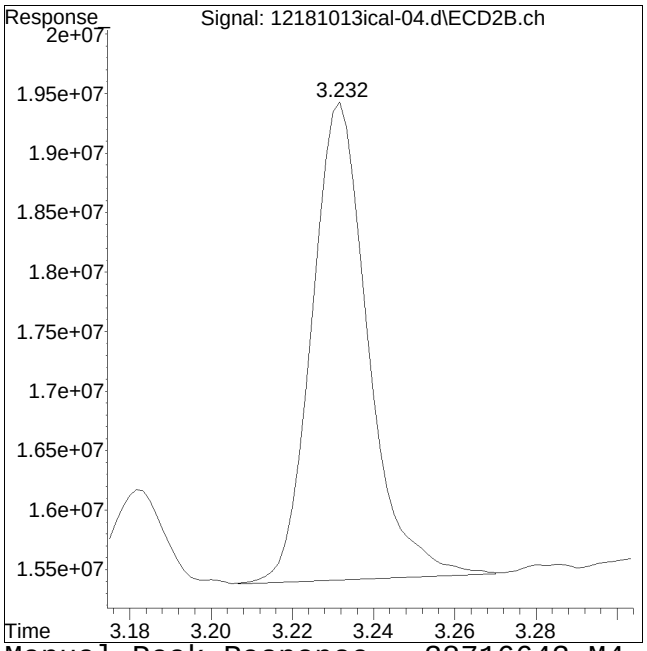
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-04.d
Date Inj'd : 10/13/2018 11:43 am
Sample : il24268,42e,,8668

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:35 am

Compound #75: 1242-1 #2



Original Peak Response = 41405998



Manual Peak Response = 38716643 M4

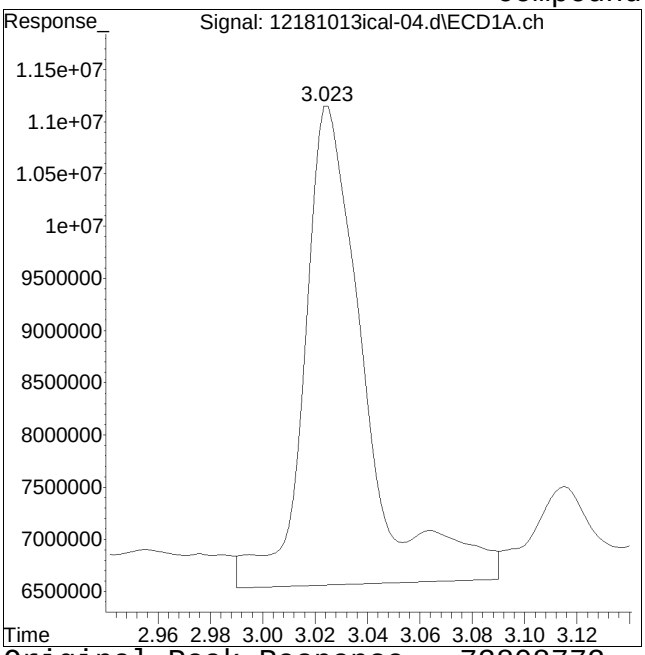
M4 = Poor automated baseline construction.

Manual Integration Report

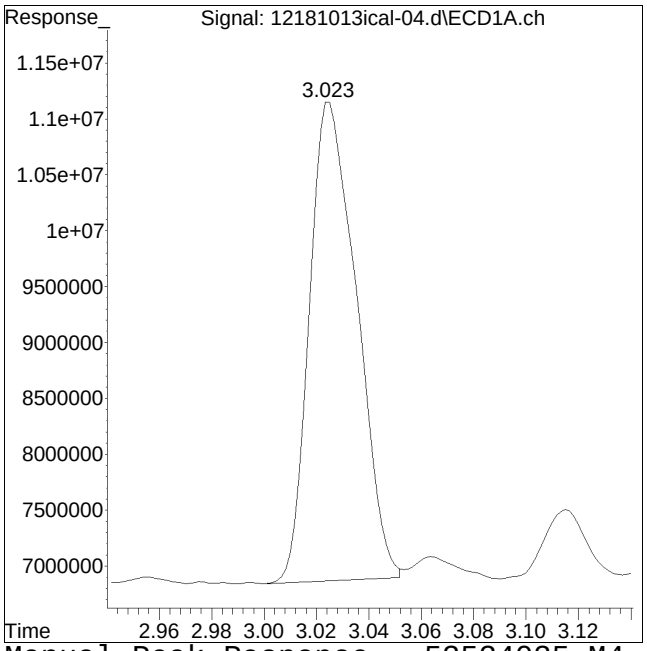
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-04.d
Date Inj'd : 10/13/2018 11:43 am
Sample : il24268,42e,,8668

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:35 am

Compound #25: 1242-2



Original Peak Response = 73808772



Manual Peak Response = 53534035 M4

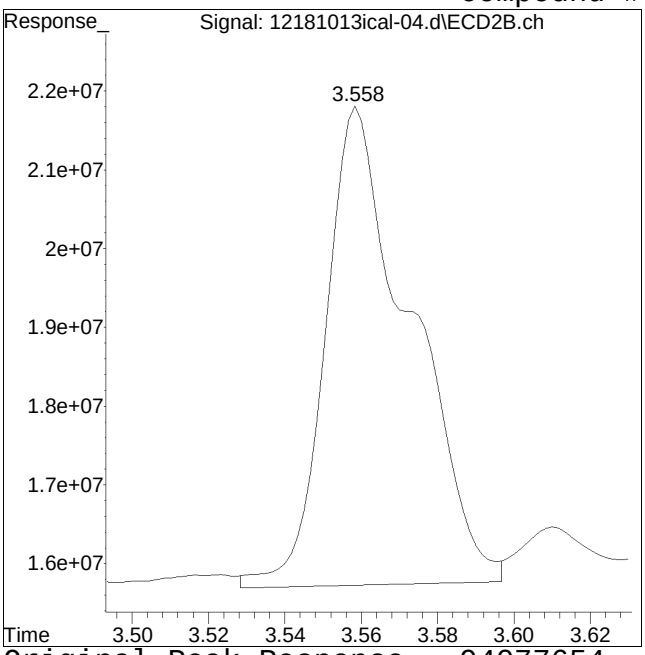
M4 = Poor automated baseline construction.

Manual Integration Report

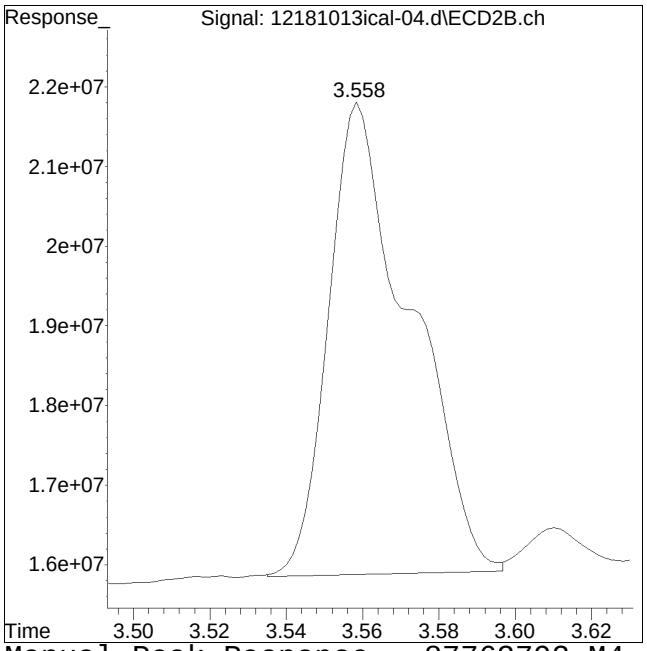
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-04.d
Date Inj'd : 10/13/2018 11:43 am
Sample : il24268,42e,,8668

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:35 am

Compound #76: 1242-2 #2



Original Peak Response = 94077654



Manual Peak Response = 87763792 M4

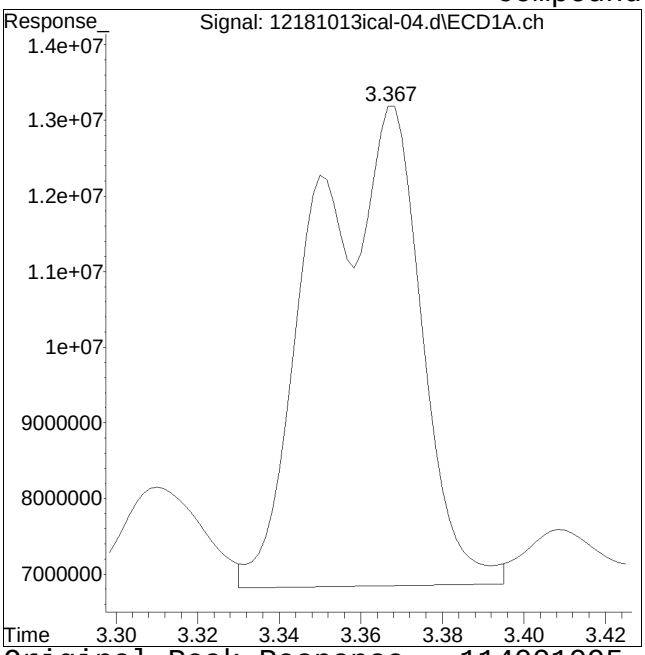
M4 = Poor automated baseline construction.

Manual Integration Report

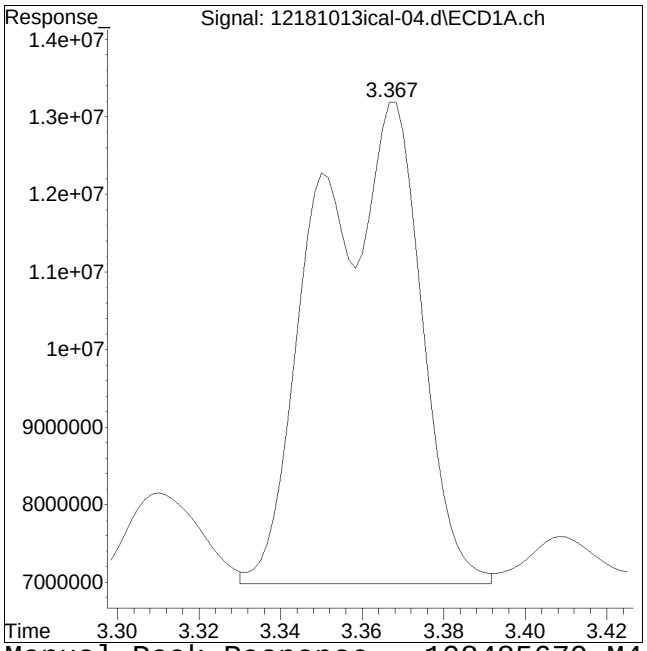
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-04.d
Date Inj'd : 10/13/2018 11:43 am
Sample : il24268,42e,,8668

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:35 am

Compound #26: 1242-3



Original Peak Response = 114001995



Manual Peak Response = 108485670 M4

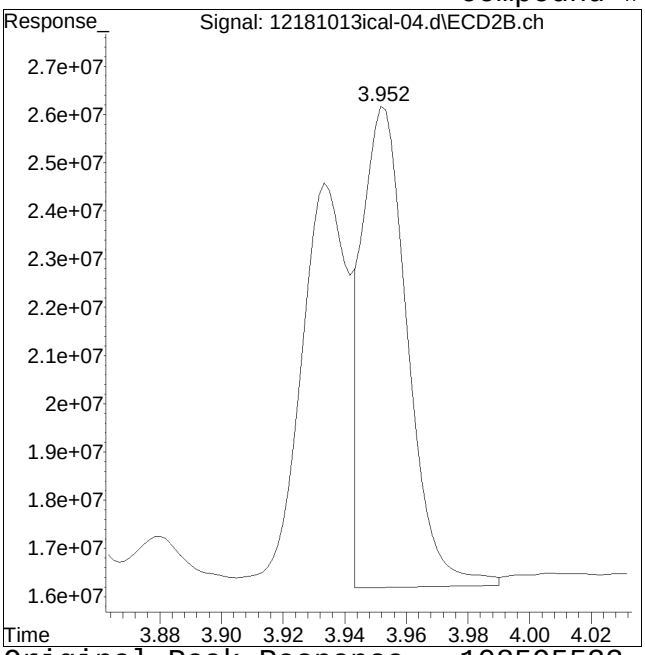
M4 = Poor automated baseline construction.

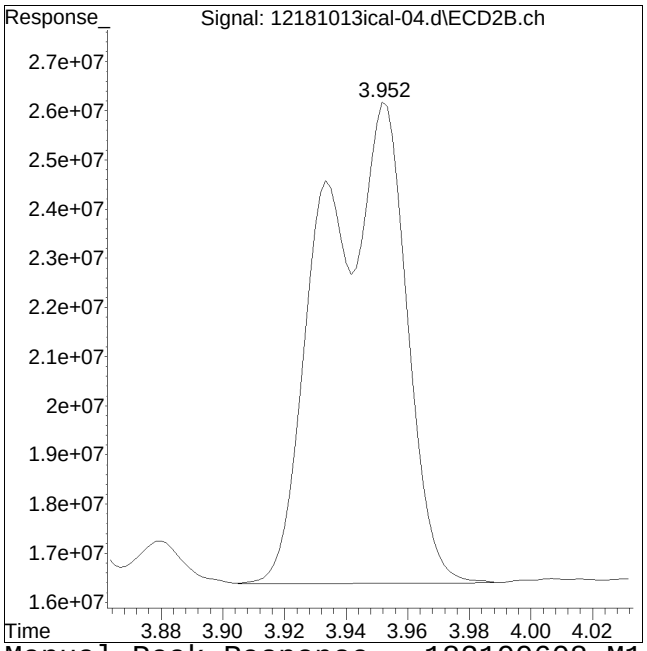
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-04.d
Date Inj'd : 10/13/2018 11:43 am
Sample : il24268,42e,,8668

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:35 am

Compound #77: 1242-3 #2





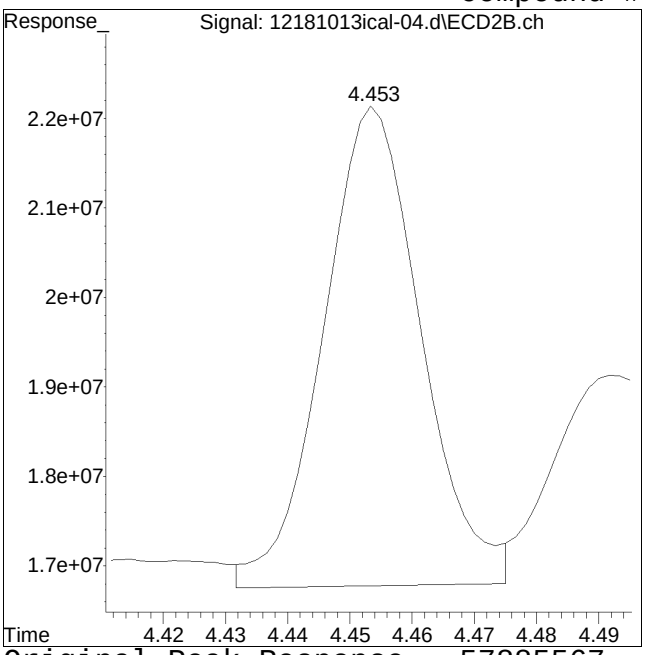
Original Peak Response = 108595533 Manual Peak Response = 182100608 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

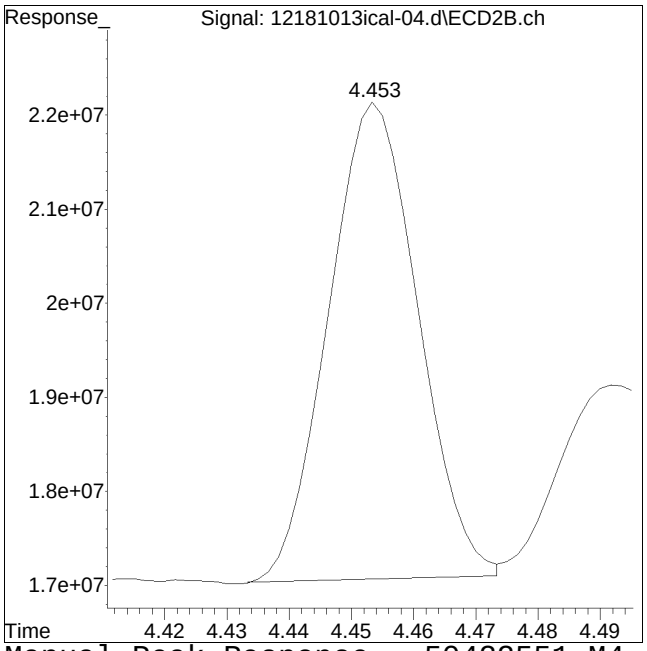
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-04.d
Date Inj'd : 10/13/2018 11:43 am
Sample : il24268,42e,,8668

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:35 am

Compound #78: 1242-4 #2



Original Peak Response = 57885567



Manual Peak Response = 50422551 M4

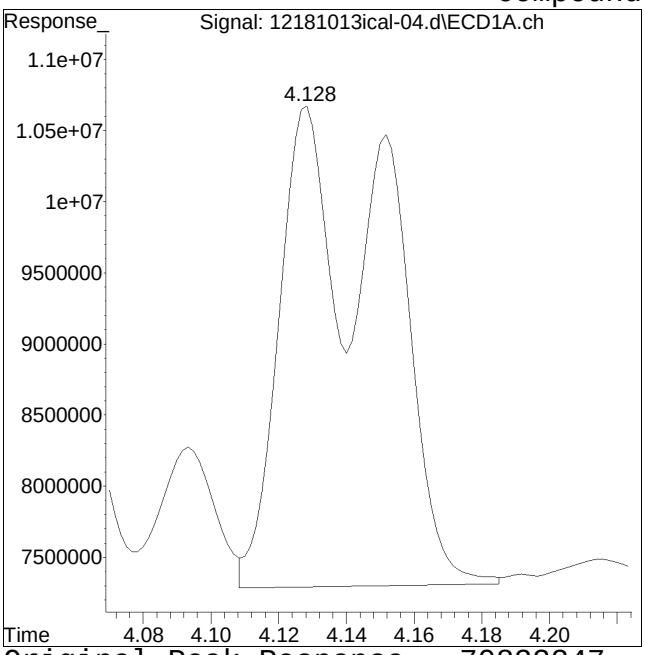
M4 = Poor automated baseline construction.

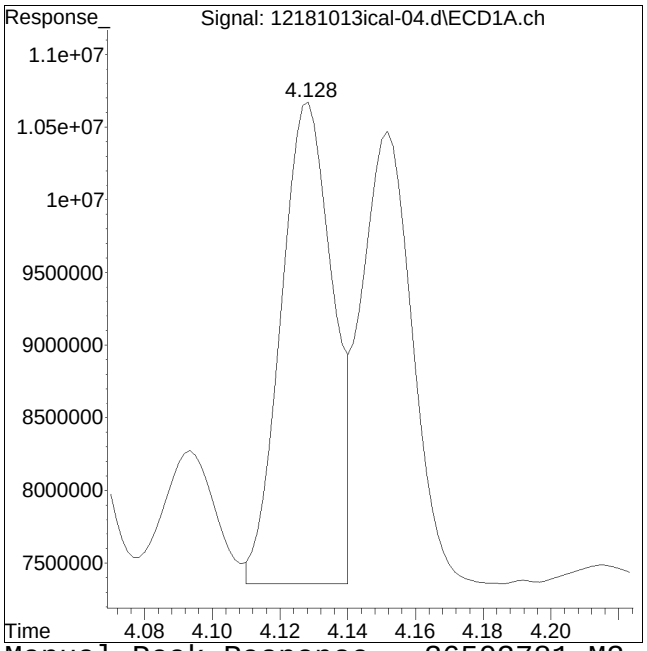
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-04.d
Date Inj'd : 10/13/2018 11:43 am
Sample : il24268,42e,,8668

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:35 am

Compound #28: 1242-5





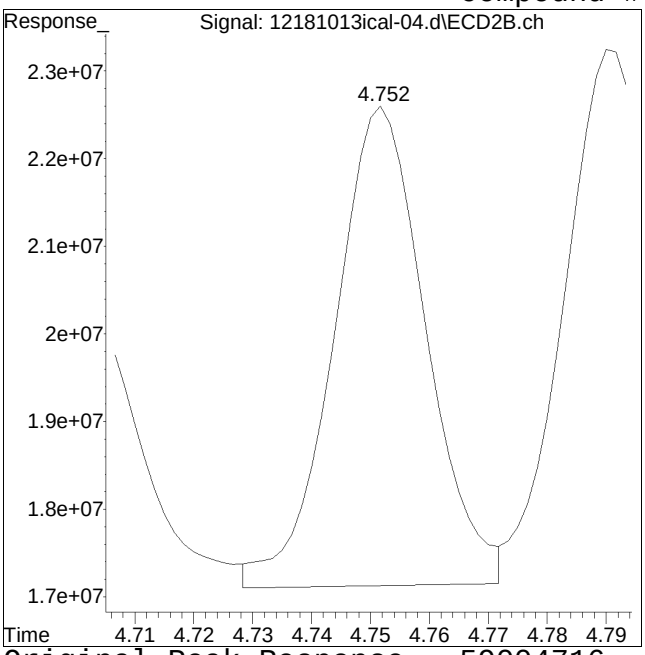
Original Peak Response = 70833247 Manual Peak Response = 36503781 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

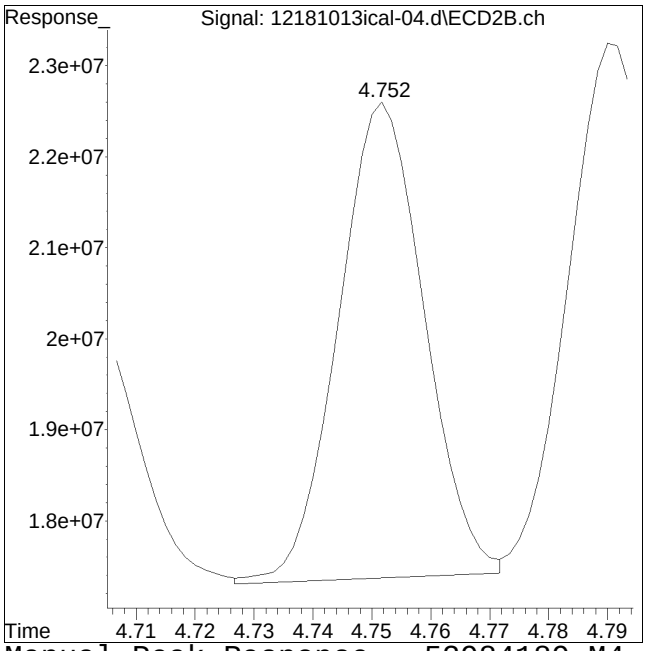
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-04.d
Date Inj'd : 10/13/2018 11:43 am
Sample : il24268,42e,,8668

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:35 am

Compound #79: 1242-5 #2



Original Peak Response = 59004716



Manual Peak Response = 52984189 M4

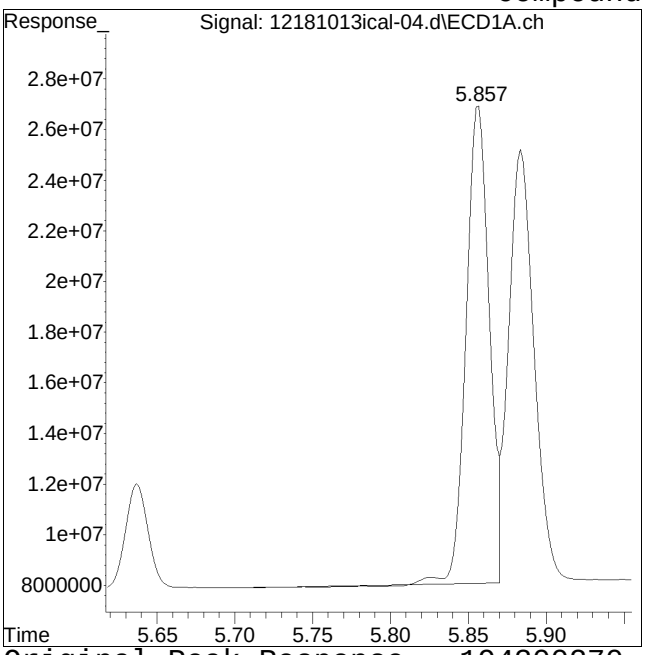
M4 = Poor automated baseline construction.

Manual Integration Report

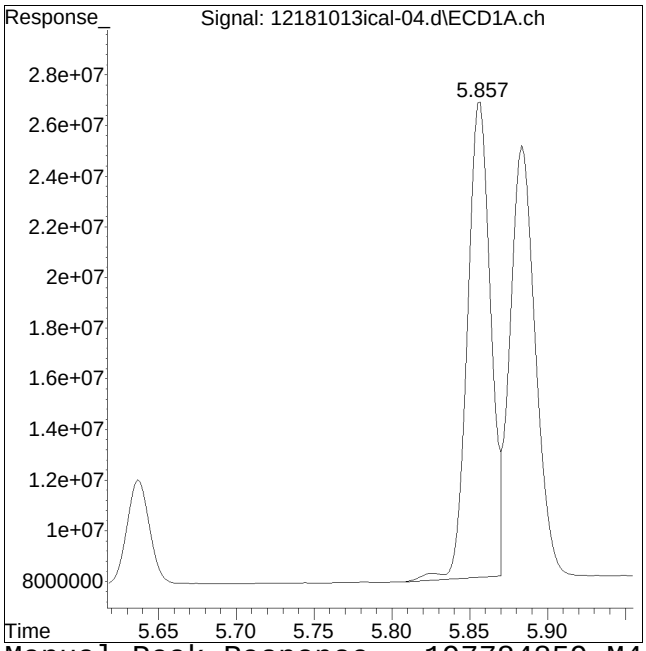
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-04.d
Date Inj'd : 10/13/2018 11:43 am
Sample : il24268,42e,,8668

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:35 am

Compound #29: 1268-1



Original Peak Response = 194300270



Manual Peak Response = 197784859 M4

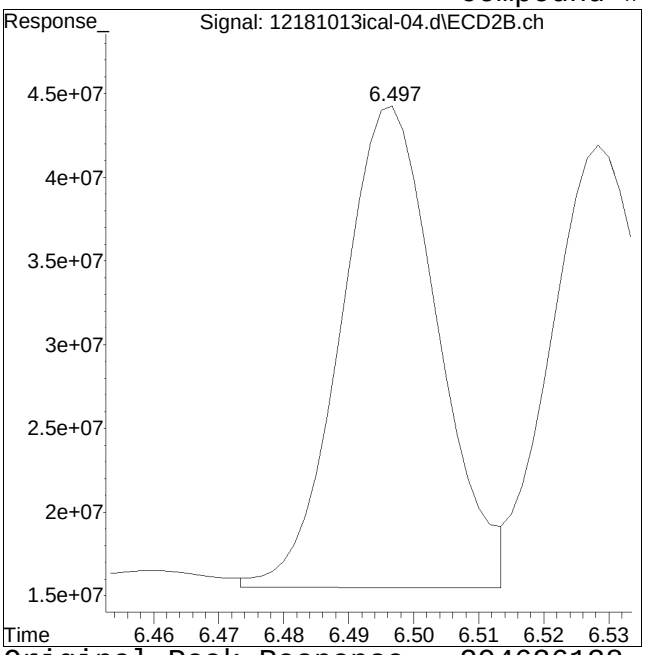
M4 = Poor automated baseline construction.

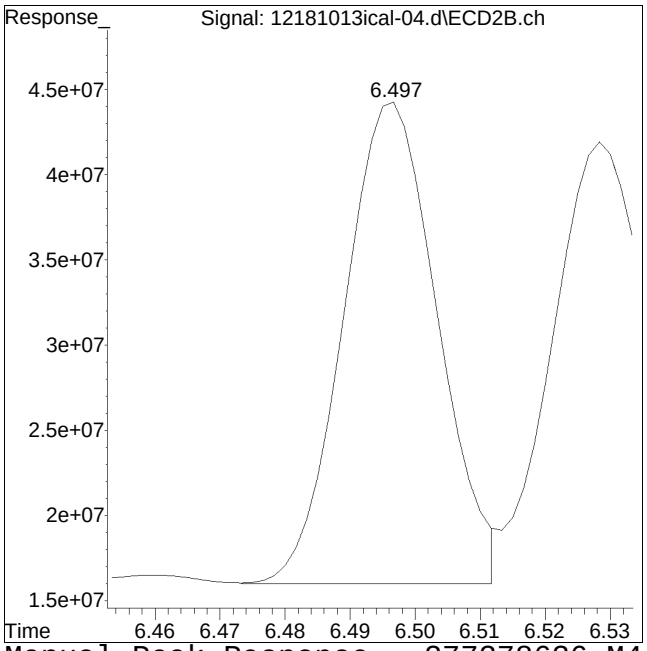
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-04.d
Date Inj'd : 10/13/2018 11:43 am
Sample : il24268,42e,,8668

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:35 am

Compound #80: 1268-1 #2





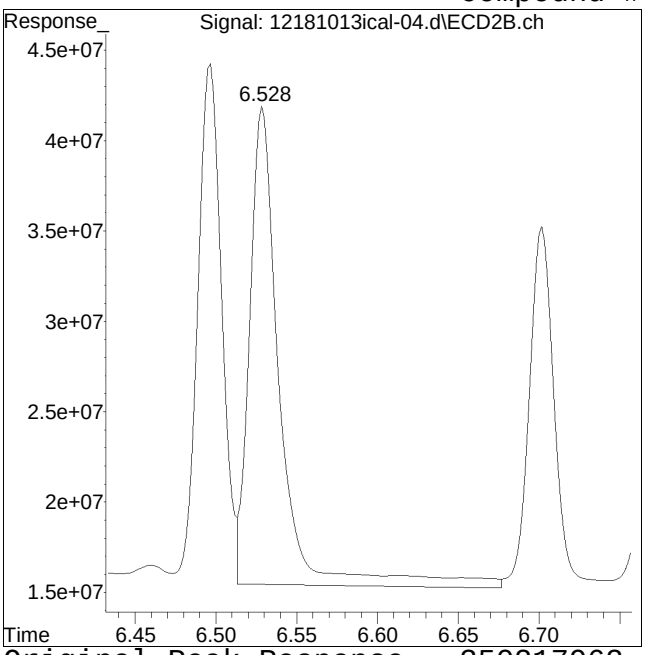
Original Peak Response = 294626138 Manual Peak Response = 277378636 M4
M4 = Poor automated baseline construction.

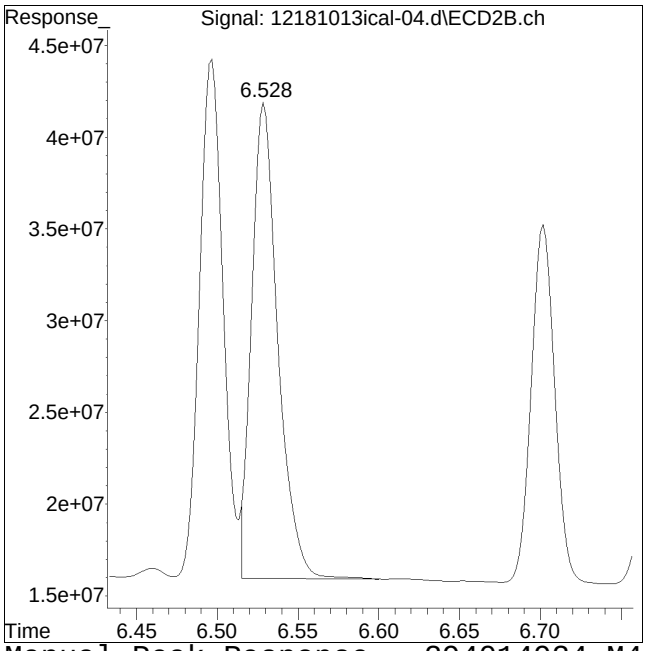
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-04.d
Date Inj'd : 10/13/2018 11:43 am
Sample : il24268,42e,,8668

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:35 am

Compound #81: 1268-2 #2





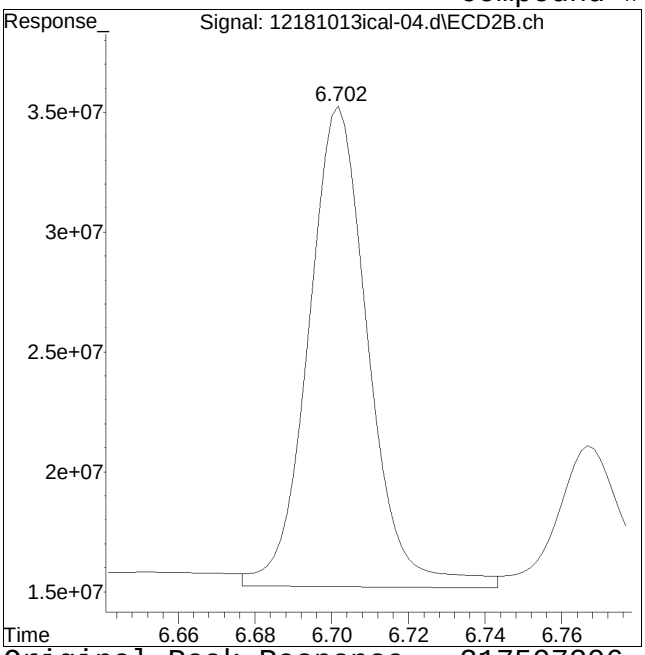
Original Peak Response = 350217962 Manual Peak Response = 294014924 M4
M4 = Poor automated baseline construction.

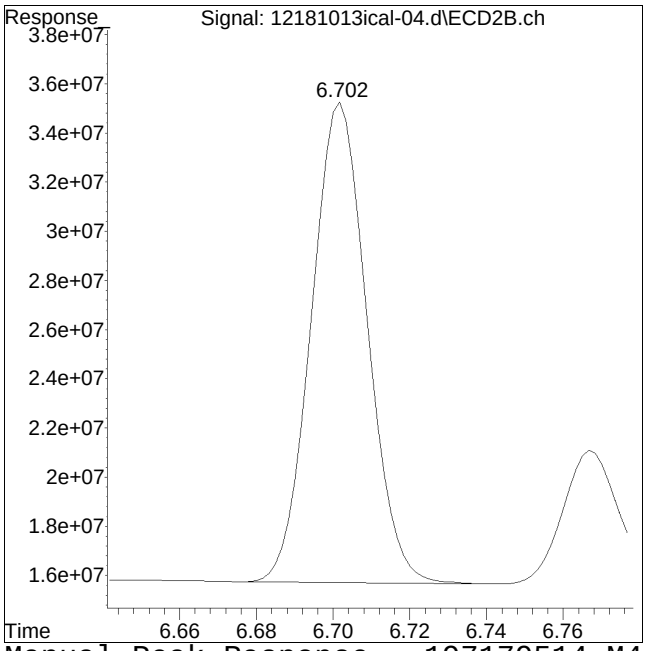
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-04.d
Date Inj'd : 10/13/2018 11:43 am
Sample : il24268,42e,,8668

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:35 am

Compound #82: 1268-3 #2





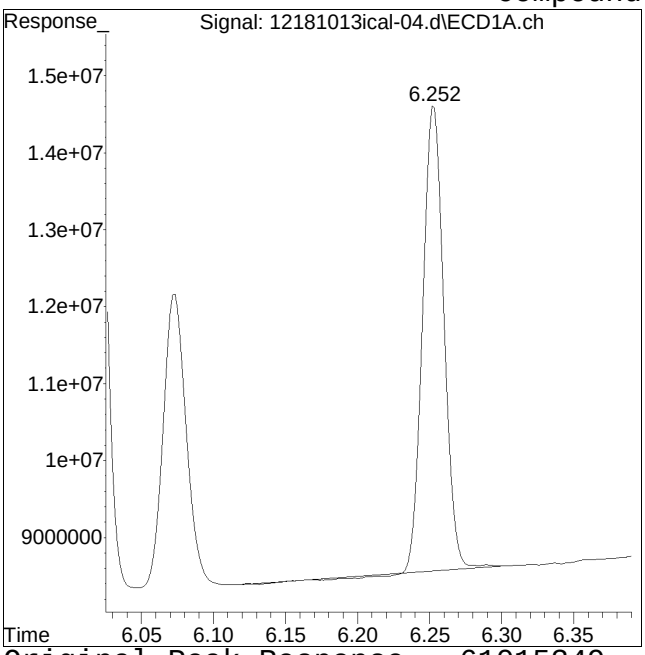
Original Peak Response = 217507306 Manual Peak Response = 197179514 M4
M4 = Poor automated baseline construction.

Manual Integration Report

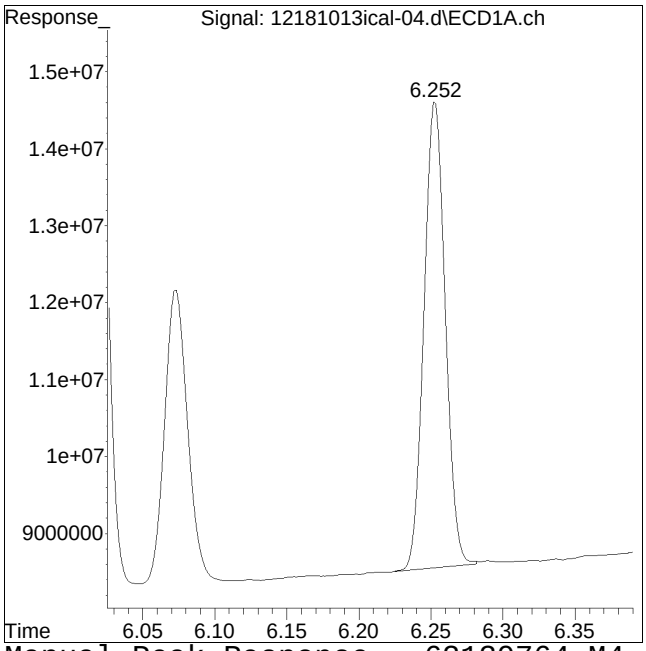
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-04.d
Date Inj'd : 10/13/2018 11:43 am
Sample : il24268,42e,,8668

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:35 am

Compound #32: 1268-4



Original Peak Response = 61015349



Manual Peak Response = 62130764 M4

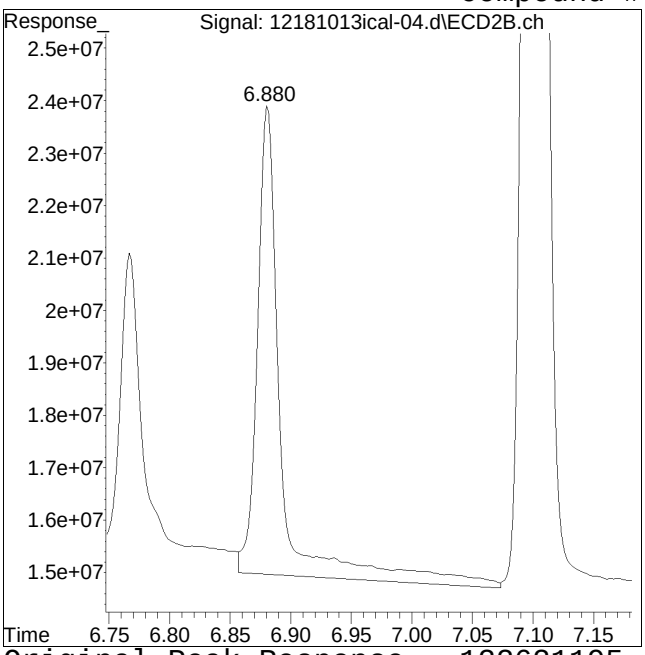
M4 = Poor automated baseline construction.

Manual Integration Report

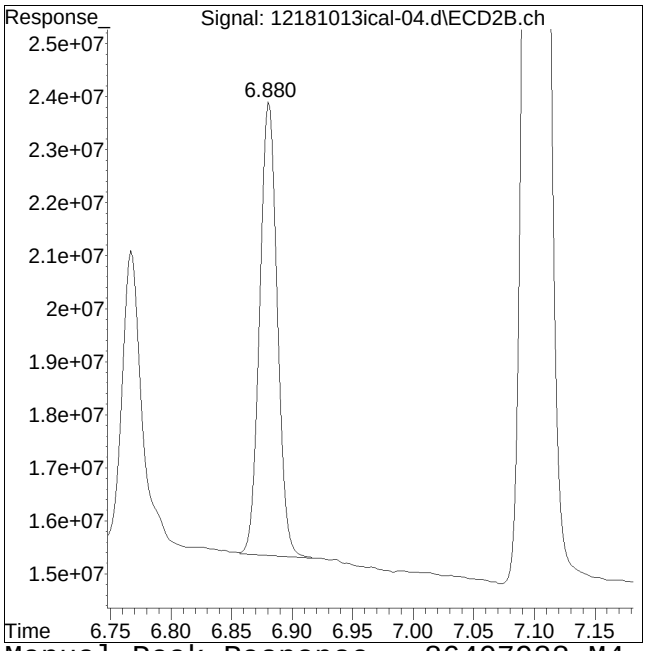
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-04.d
Date Inj'd : 10/13/2018 11:43 am
Sample : il24268,42e,,8668

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:35 am

Compound #83: 1268-4 #2



Original Peak Response = 122621195



Manual Peak Response = 86407988 M4

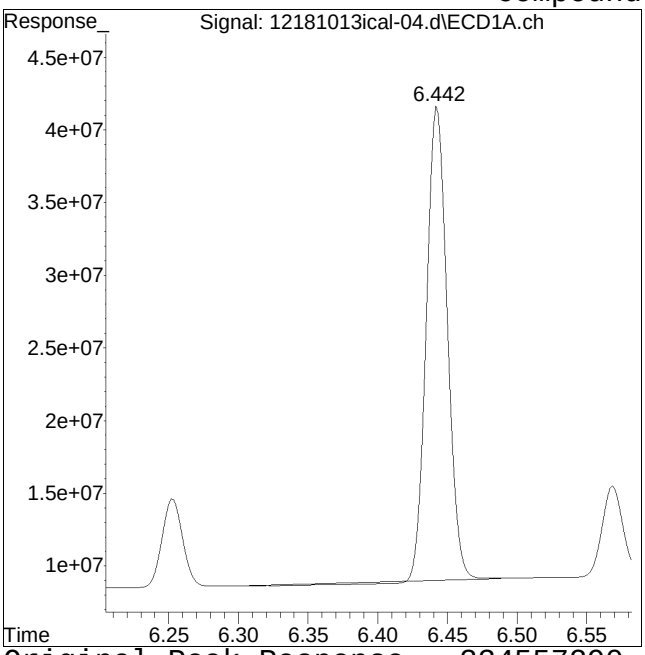
M4 = Poor automated baseline construction.

Manual Integration Report

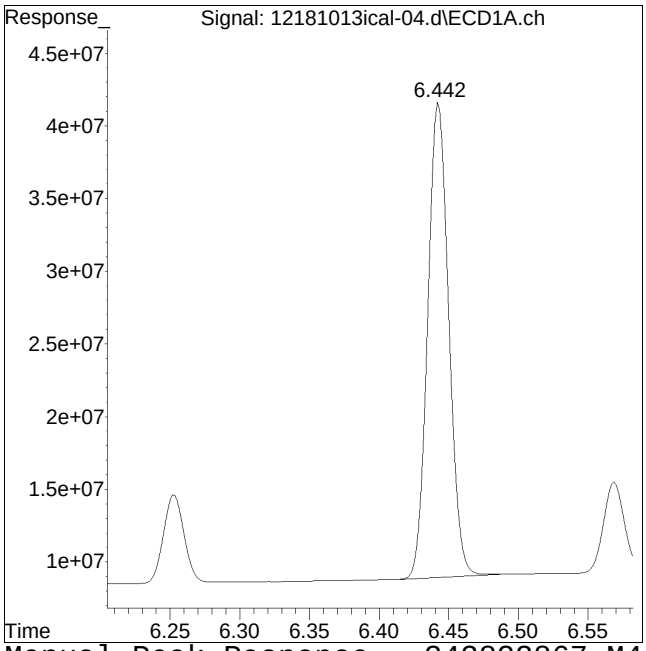
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-04.d
Date Inj'd : 10/13/2018 11:43 am
Sample : il24268,42e,,8668

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:35 am

Compound #33: 1268-5



Original Peak Response = 334557290



Manual Peak Response = 342822867 M4

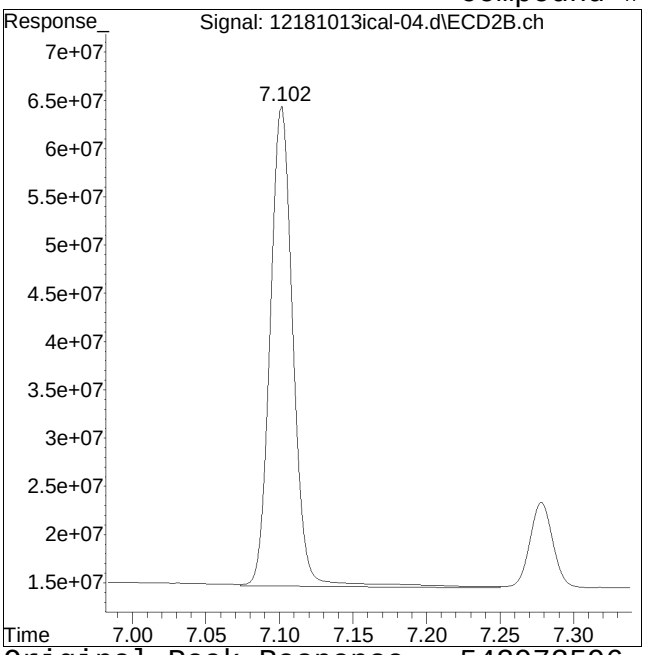
M4 = Poor automated baseline construction.

Manual Integration Report

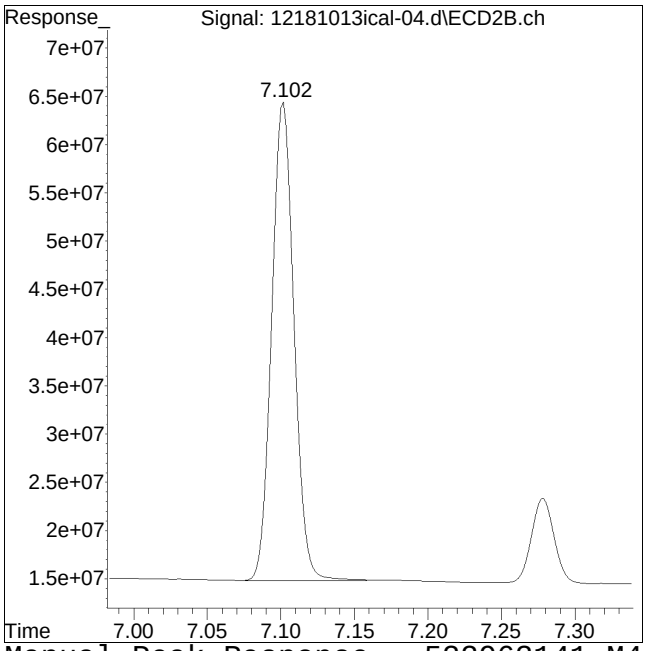
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-04.d
Date Inj'd : 10/13/2018 11:43 am
Sample : il24268,42e,,8668

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:35 am

Compound #84: 1268-5 #2



Original Peak Response = 542973596



Manual Peak Response = 522963141 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-05.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 11:56 am
Operator : Pest12:kb
Sample : il34268,42e,,8667
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 10:35:30 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 10:30:11 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	2.071	2.225	750.2E6	1129.5E6	250.000	250.000M4
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-05.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 11:56 am
Operator : Pest12:kb
Sample : il34268,42e,,8667
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 10:35:30 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 10:30:11 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	2.780	3.232	46241150	75390031	1183.316M4	1138.405M4
25) l6	1242-2	3.024	3.559	99155747	166.6E6	1152.873M3	1131.009M4
26) l6	1242-3	3.366	3.952	201.5E6	340.2E6	1126.647	1114.258M1
27) l6	1242-4	3.788	4.453	91751986	98451181	1125.070M4	1057.292M4
28) l6	1242-5	4.127	4.751	64505536	100.5E6	1037.722M3	1069.735M4
Sum	1242-1			503.1E6	781.1E6	5625.628	5510.700
Average	1242-1					1125.126	1102.140
29) l9	1268-1	5.855	6.495	362.4E6	528.6E6	1074.041M1	1065.257M4
30) l9	1268-2	5.883	6.527	361.7E6	549.0E6	1052.757	1020.984M4
31) l9	1268-3	6.015	6.700	238.6E6	365.4E6	1051.120	1025.304M4
32) l9	1268-4	6.252	6.879	120.3E6	161.9E6	1073.566	1020.047M4
33) l9	1268-5	6.441	7.100	633.5E6	976.6E6	1040.888	1026.342M4
Sum	1268-1			1716.4E6	2581.5E6	N.D.	N.D. D
Average	1268-1					1058.474	1031.587
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-05.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 11:56 am
Operator : Pest12:kb
Sample : il34268,42e,,8667
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 10:35:30 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 10:30:11 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

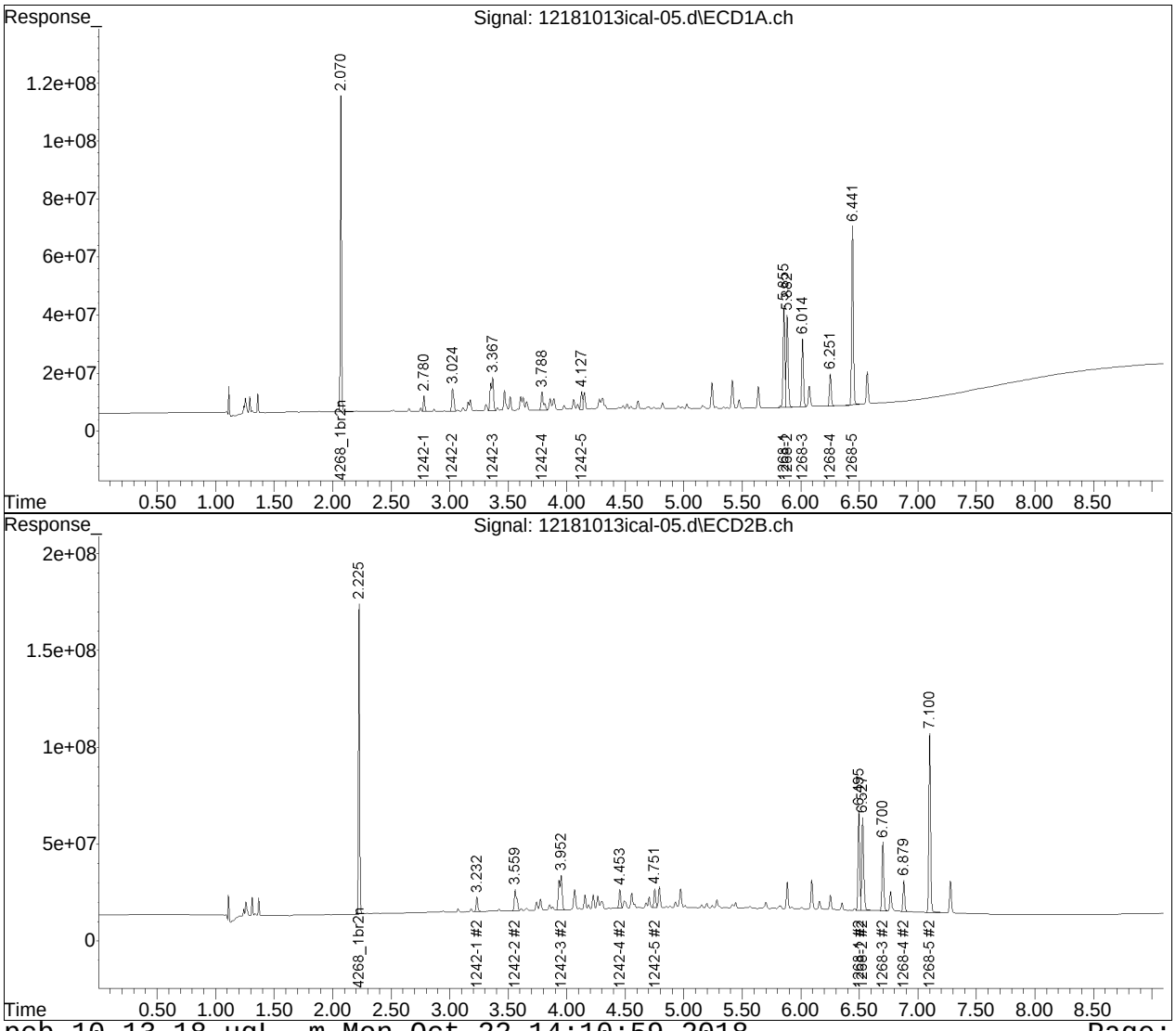
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-05.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 11:56 am
Operator : Pest12:kb
Sample : il34268,42e,,8667
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 10:35:30 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 10:30:11 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

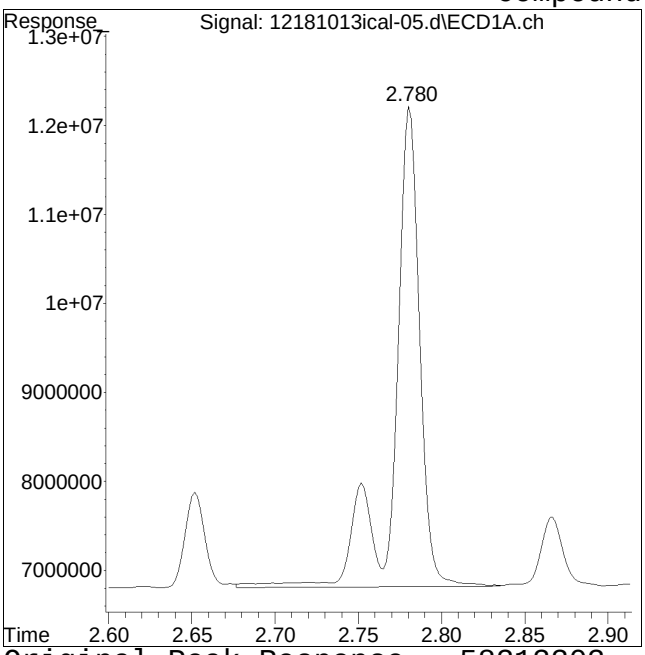


Manual Integration Report

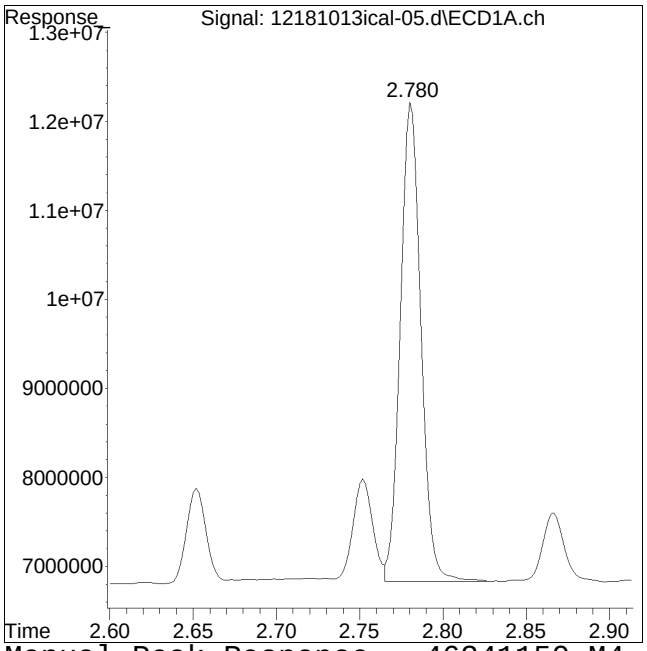
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-05.d
Date Inj'd : 10/13/2018 11:56 am
Sample : il34268,42e,,8667

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:30 am

Compound #24: 1242-1



Original Peak Response = 58313303



Manual Peak Response = 46241150 M4

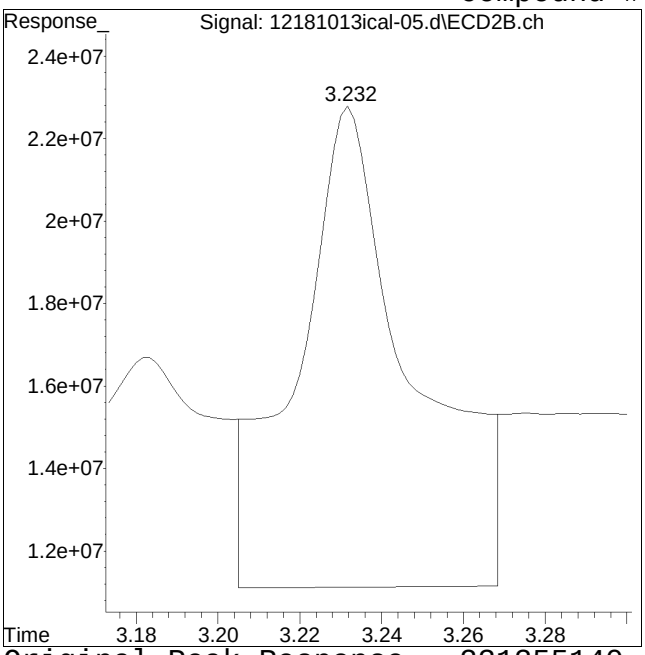
M4 = Poor automated baseline construction.

Manual Integration Report

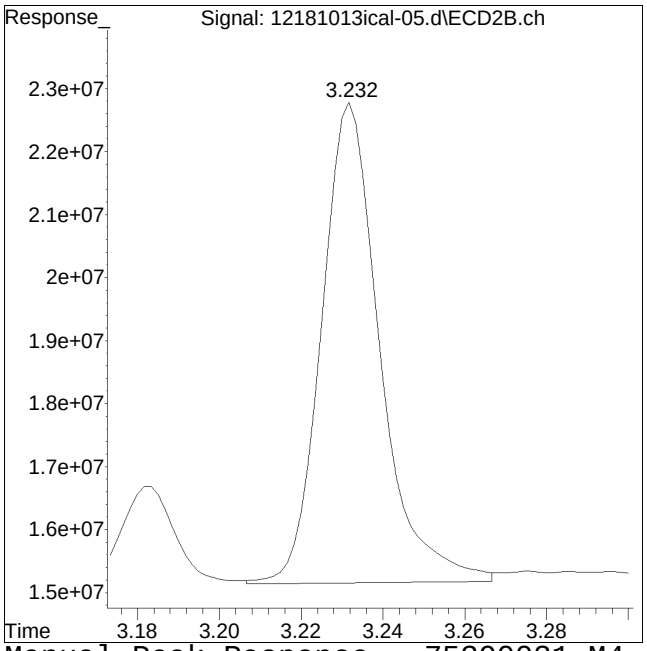
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-05.d
Date Inj'd : 10/13/2018 11:56 am
Sample : il34268,42e,,8667

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:30 am

Compound #75: 1242-1 #2



Original Peak Response = 231355140



Manual Peak Response = 75390031 M4

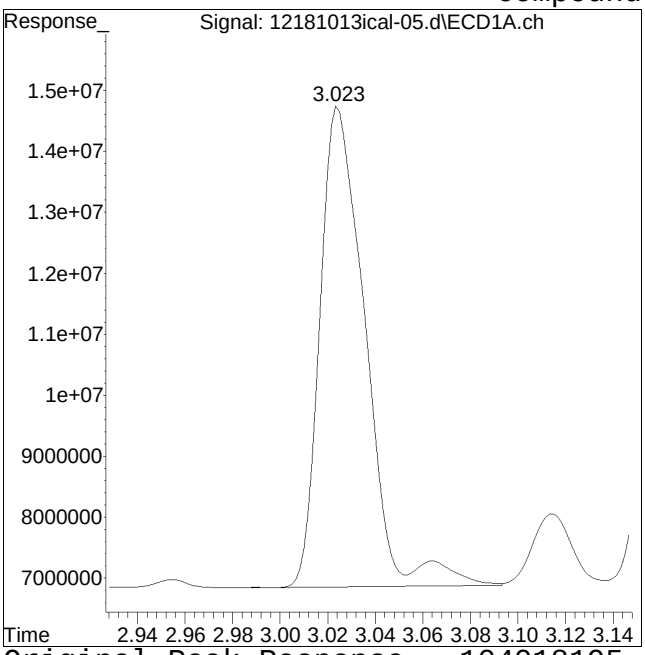
M4 = Poor automated baseline construction.

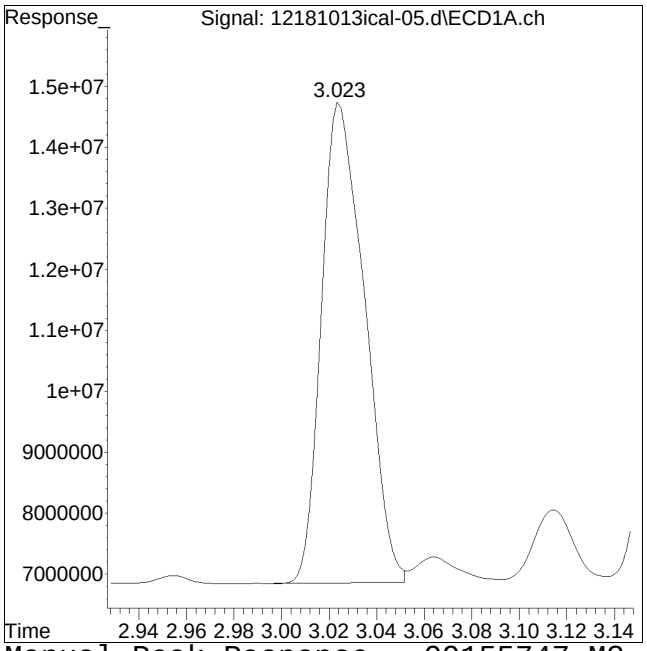
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-05.d
Date Inj'd : 10/13/2018 11:56 am
Sample : il34268,42e,,8667

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:30 am

Compound #25: 1242-2





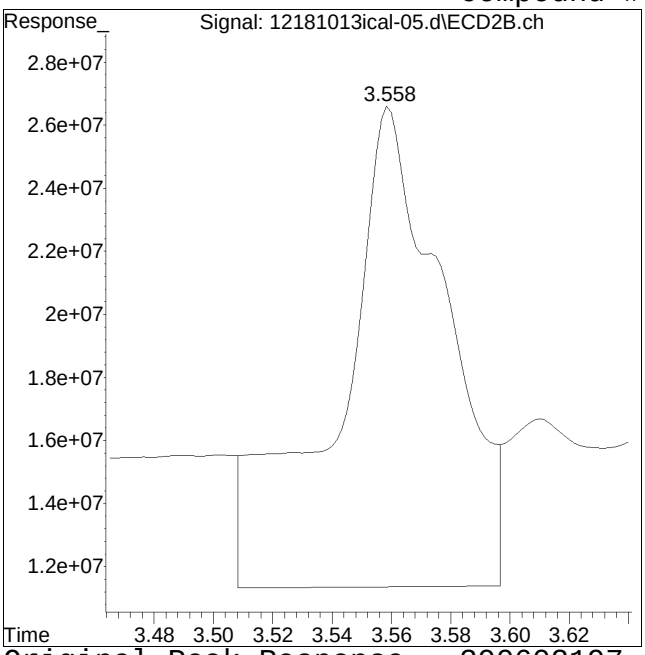
Original Peak Response = 104018195 Manual Peak Response = 99155747 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

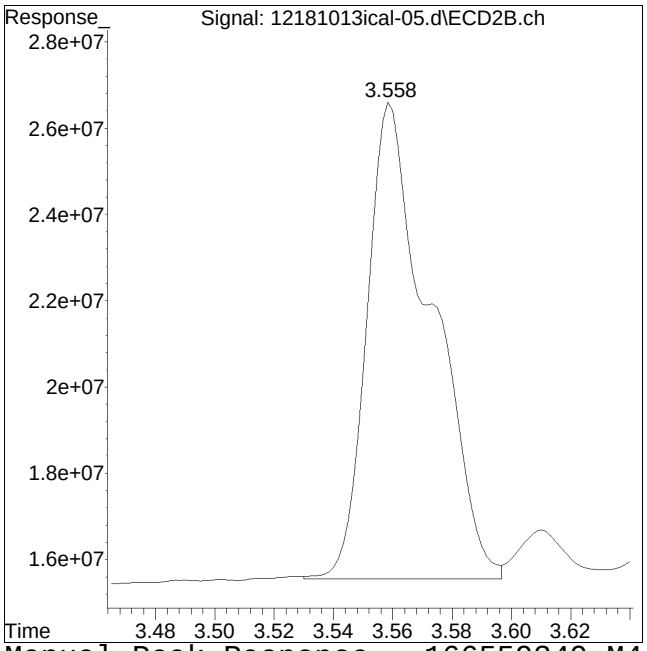
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-05.d
Date Inj'd : 10/13/2018 11:56 am
Sample : il34268,42e,,8667

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:30 am

Compound #76: 1242-2 #2



Original Peak Response = 390602197



Manual Peak Response = 166559349 M4

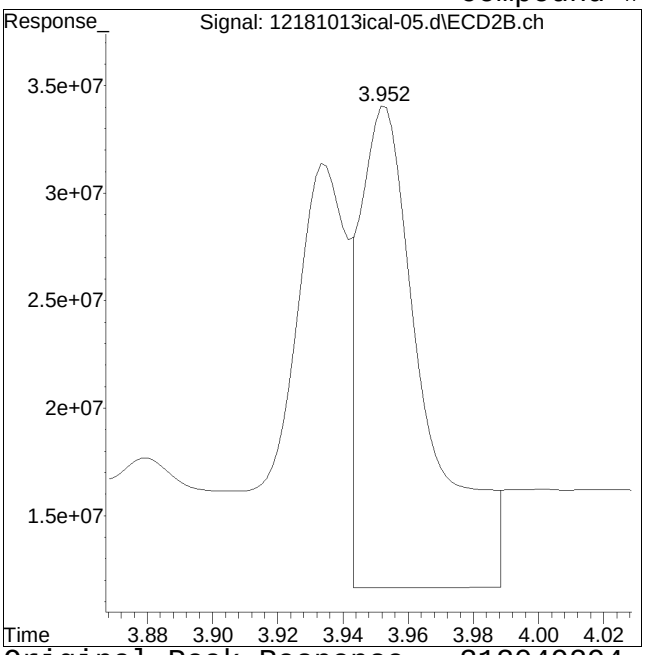
M4 = Poor automated baseline construction.

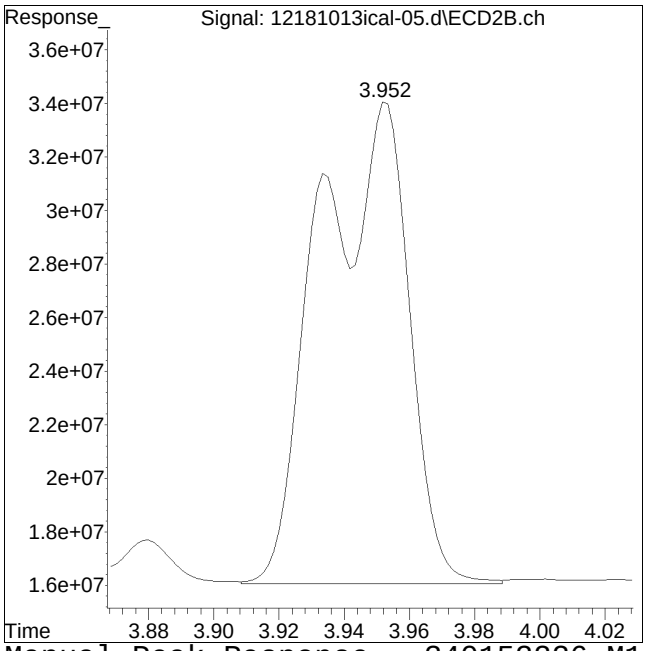
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-05.d
Date Inj'd : 10/13/2018 11:56 am
Sample : il34268,42e,,8667

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:30 am

Compound #77: 1242-3 #2





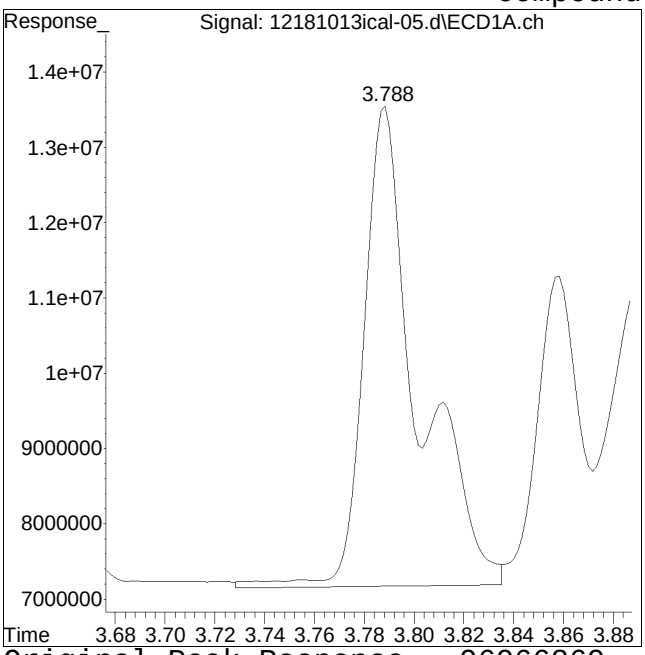
Original Peak Response = 312049294 Manual Peak Response = 340153226 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

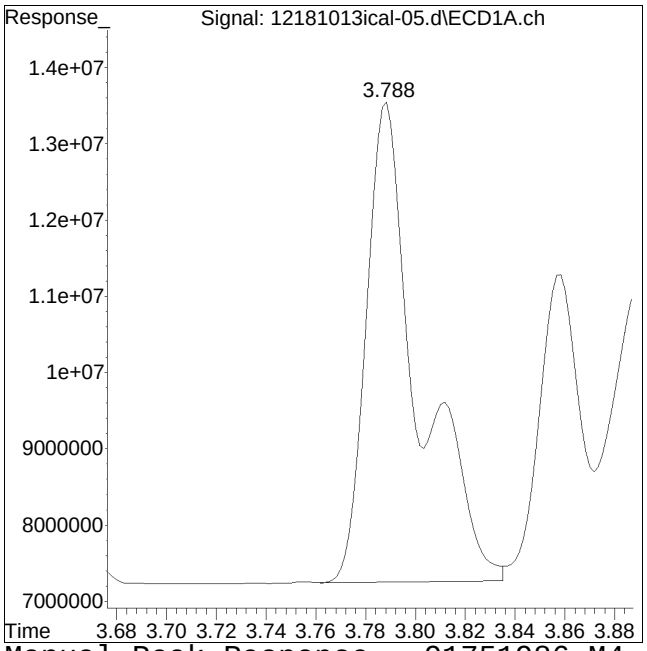
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-05.d
Date Inj'd : 10/13/2018 11:56 am
Sample : il34268,42e,,8667

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:30 am

Compound #27: 1242-4





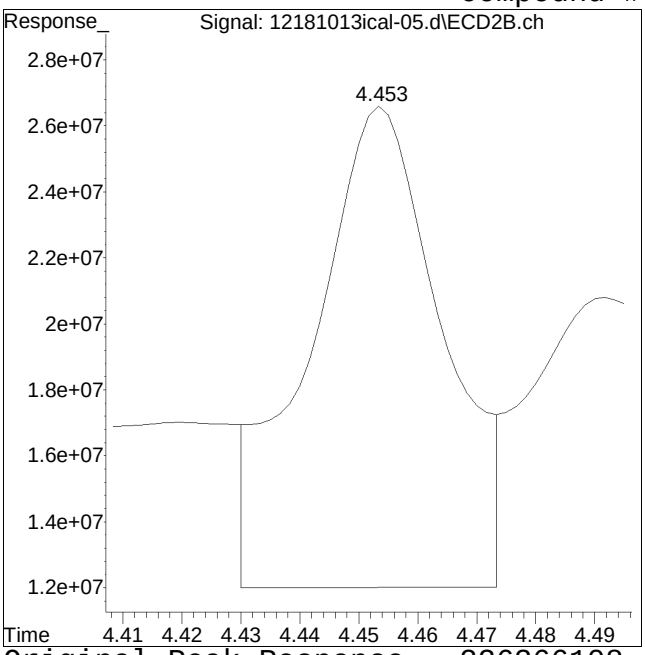
Original Peak Response = 96966269 Manual Peak Response = 91751986 M4
M4 = Poor automated baseline construction.

Manual Integration Report

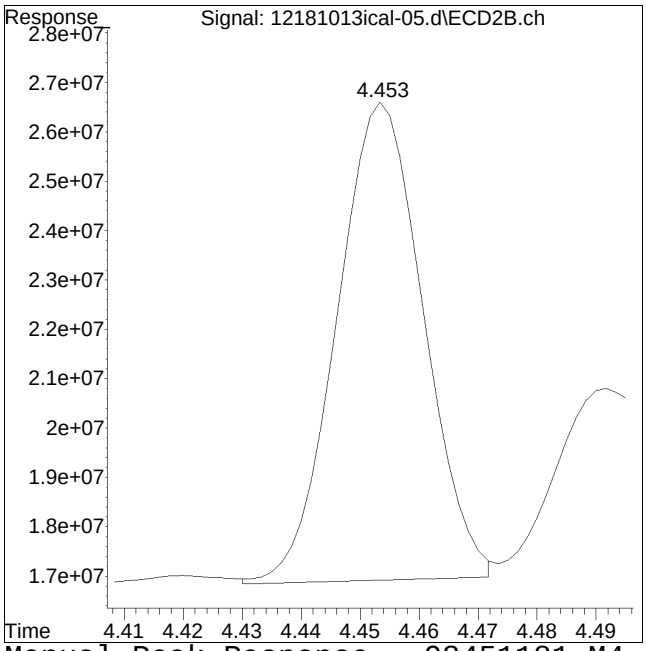
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-05.d
Date Inj'd : 10/13/2018 11:56 am
Sample : il34268,42e,,8667

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:30 am

Compound #78: 1242-4 #2



Original Peak Response = 226366108



Manual Peak Response = 98451181 M4

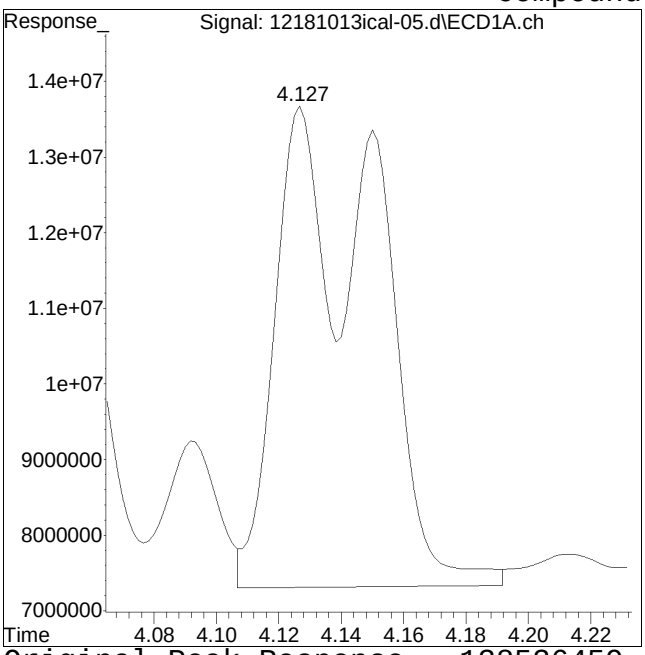
M4 = Poor automated baseline construction.

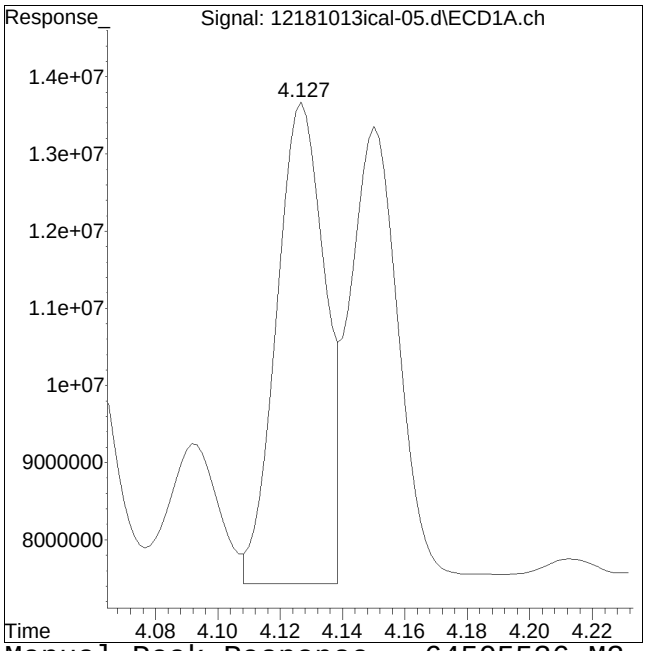
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-05.d
Date Inj'd : 10/13/2018 11:56 am
Sample : il34268,42e,,8667

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:30 am

Compound #28: 1242-5





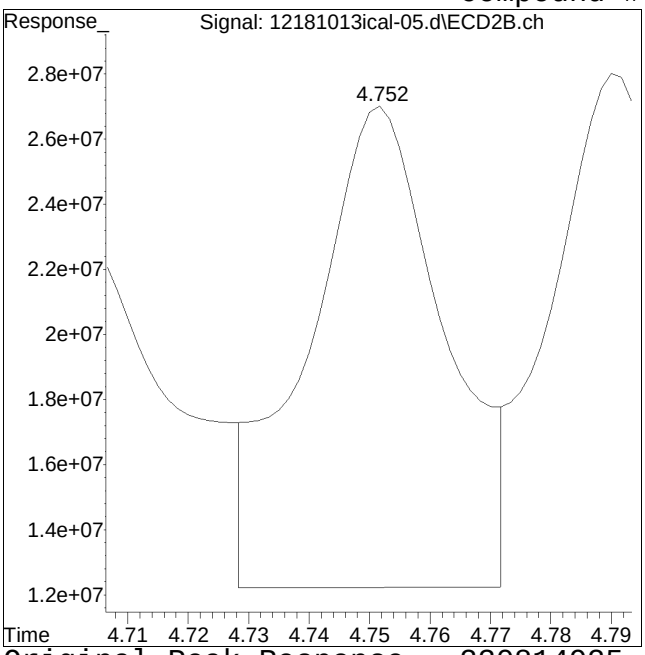
Original Peak Response = 138536459 Manual Peak Response = 64505536 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

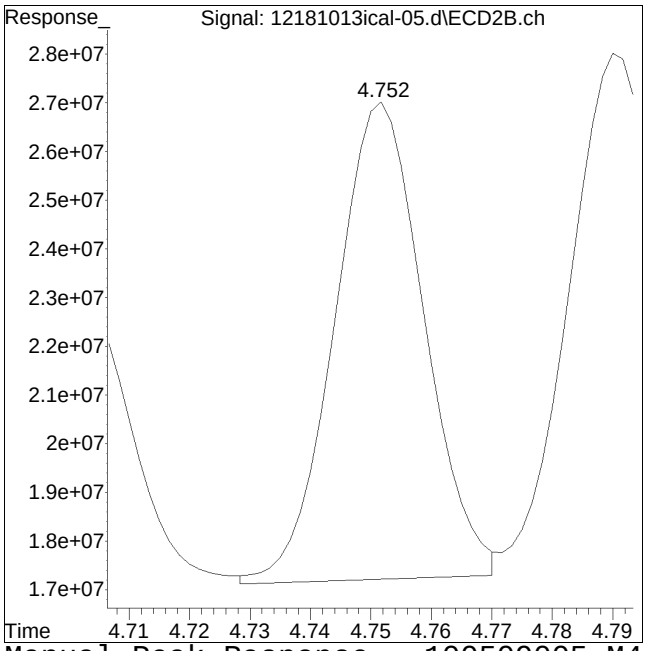
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-05.d
Date Inj'd : 10/13/2018 11:56 am
Sample : il34268,42e,,8667

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:30 am

Compound #79: 1242-5 #2



Original Peak Response = 230814925



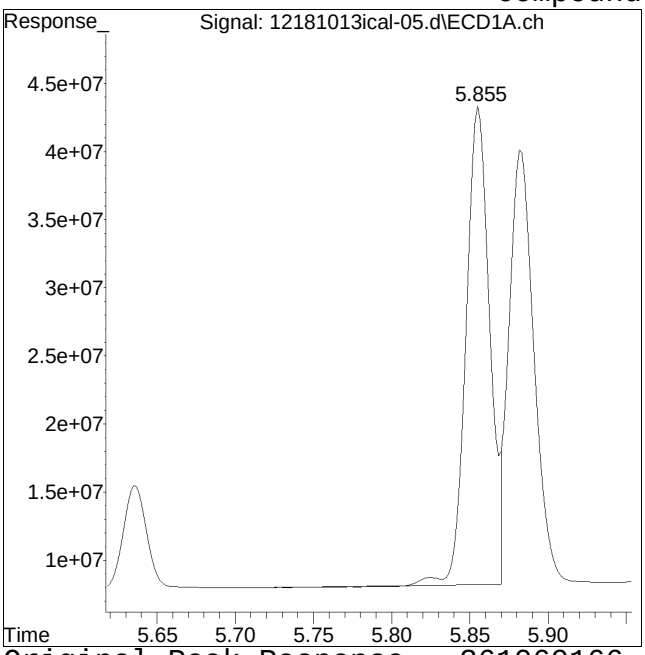
Manual Peak Response = 100509005 M4

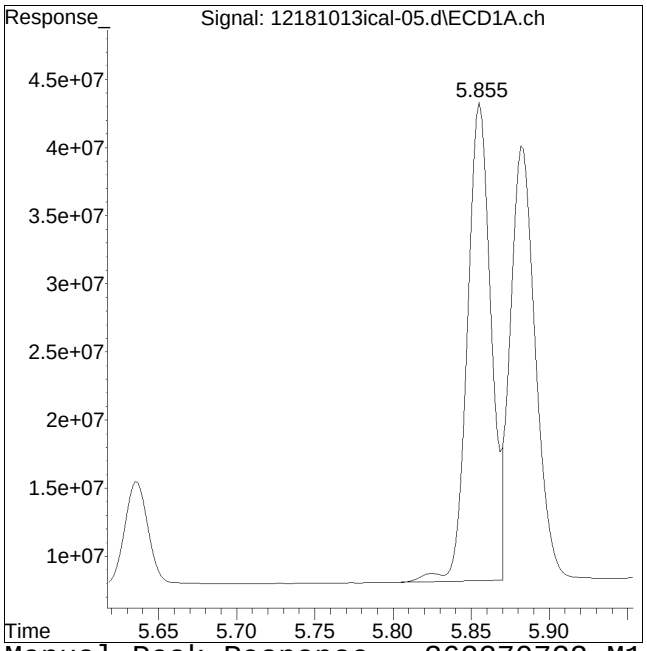
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path	: I:\Pest12\181013ical\	QMethod	: P12_pcb_10-13-18_ugL_.m
Data File	: 12181013ical-05.d	Operator	: Pest12:kb
Date Inj'd	: 10/13/2018 11:56 am	Instrument	: Pest 12
Sample	: il34268,42e,,8667	Quant Date	: 10/16/2018 10:30 am

Compound #29: 1268-1





Original Peak Response = 361060166 Manual Peak Response = 362370722 M1

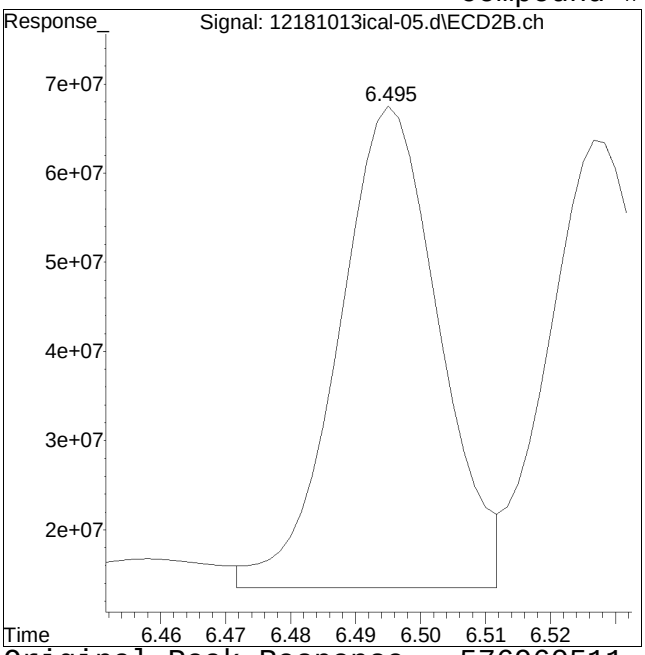
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

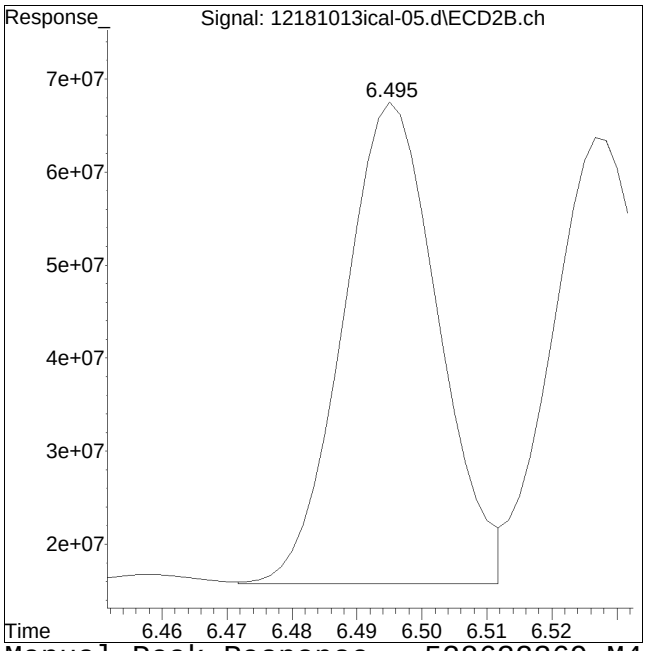
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-05.d
Date Inj'd : 10/13/2018 11:56 am
Sample : il34268,42e,,8667

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:30 am

Compound #80: 1268-1 #2





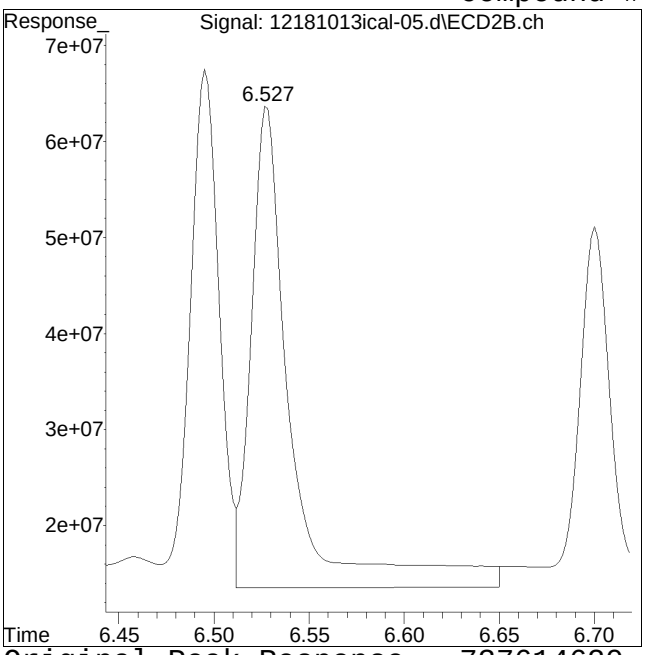
Original Peak Response = 576960511 Manual Peak Response = 528632369 M4
M4 = Poor automated baseline construction.

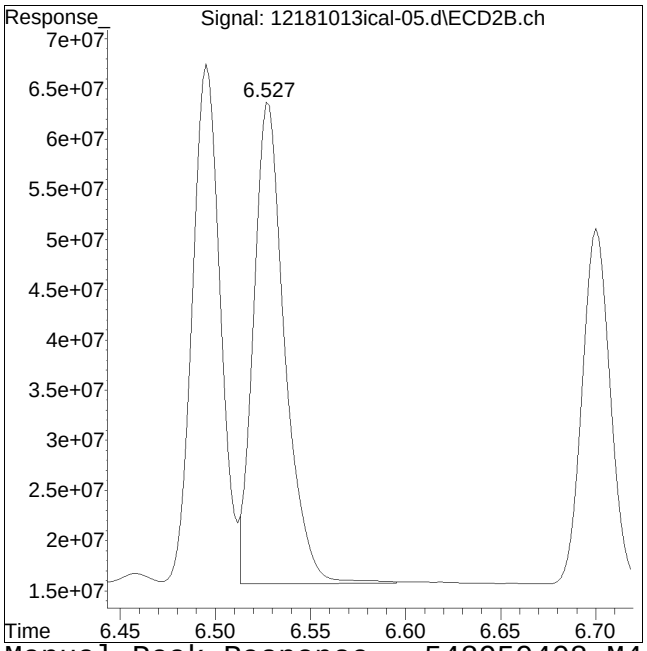
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-05.d
Date Inj'd : 10/13/2018 11:56 am
Sample : il34268,42e,,8667

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:30 am

Compound #81: 1268-2 #2





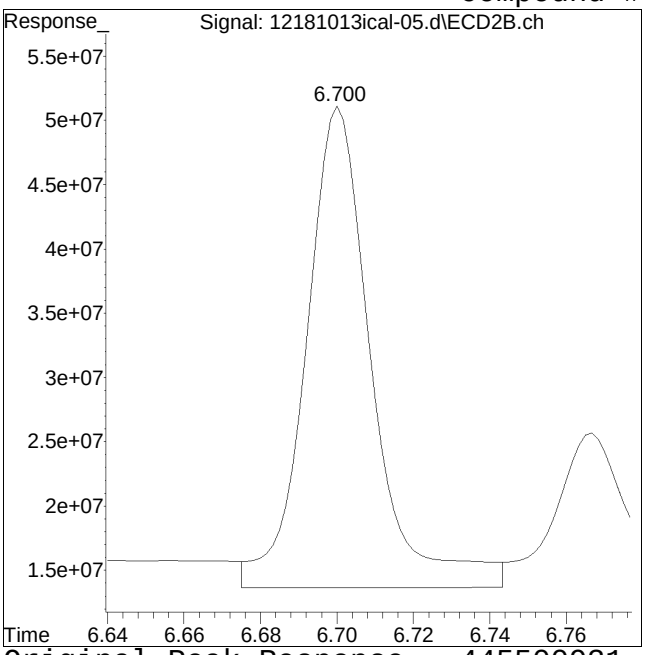
Original Peak Response = 737614620 Manual Peak Response = 548950408 M4
M4 = Poor automated baseline construction.

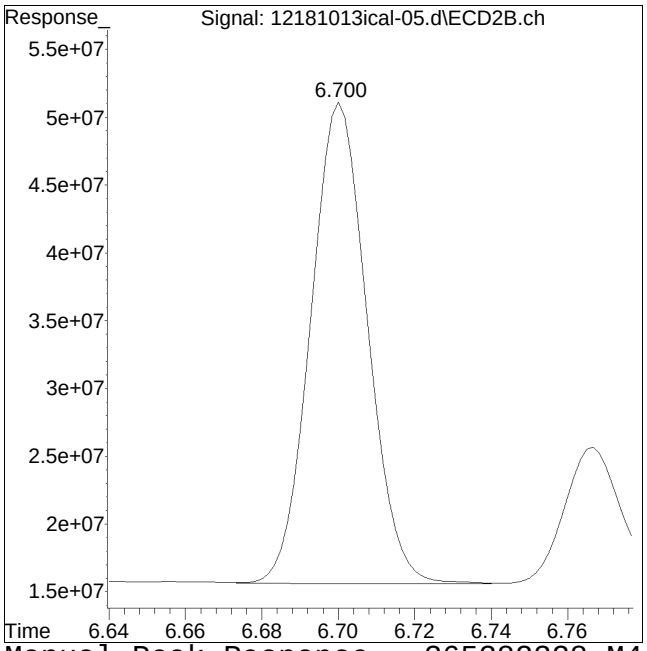
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-05.d
Date Inj'd : 10/13/2018 11:56 am
Sample : il34268,42e,,8667

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:30 am

Compound #82: 1268-3 #2





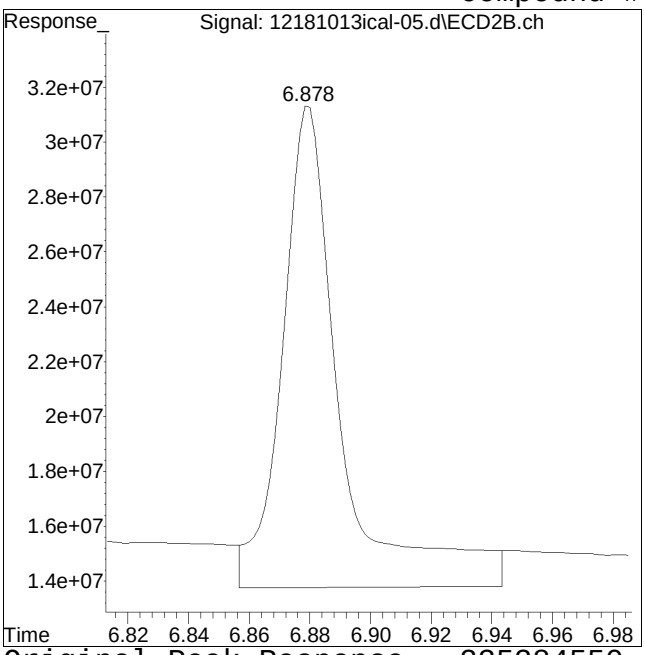
Original Peak Response = 445500931 Manual Peak Response = 365382328 M4
M4 = Poor automated baseline construction.

Manual Integration Report

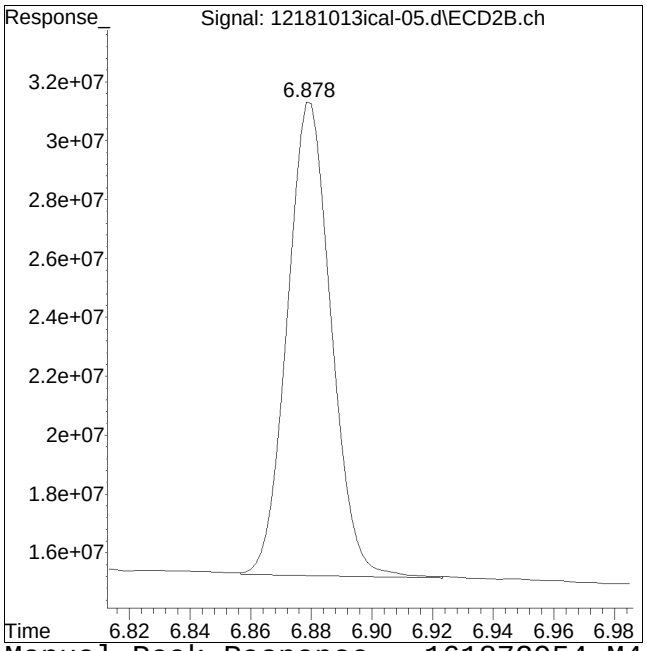
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-05.d
Date Inj'd : 10/13/2018 11:56 am
Sample : il34268,42e,,8667

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:30 am

Compound #83: 1268-4 #2



Original Peak Response = 235384550



Manual Peak Response = 161872954 M4

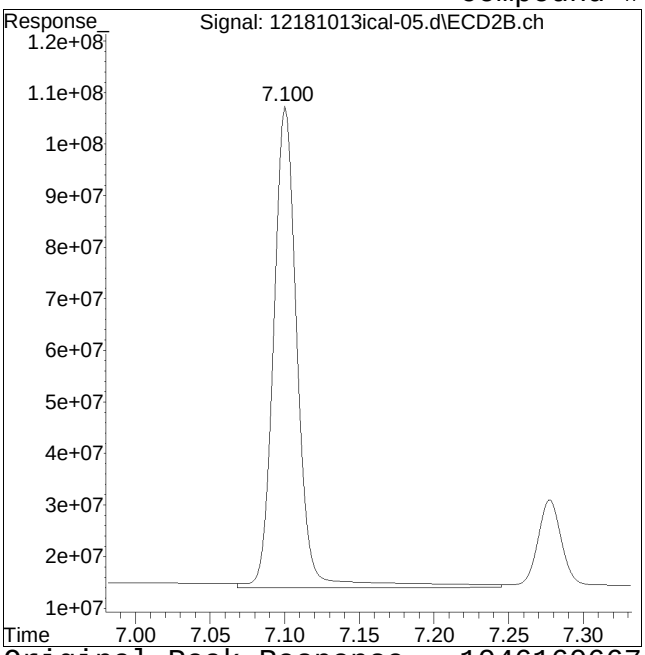
M4 = Poor automated baseline construction.

Manual Integration Report

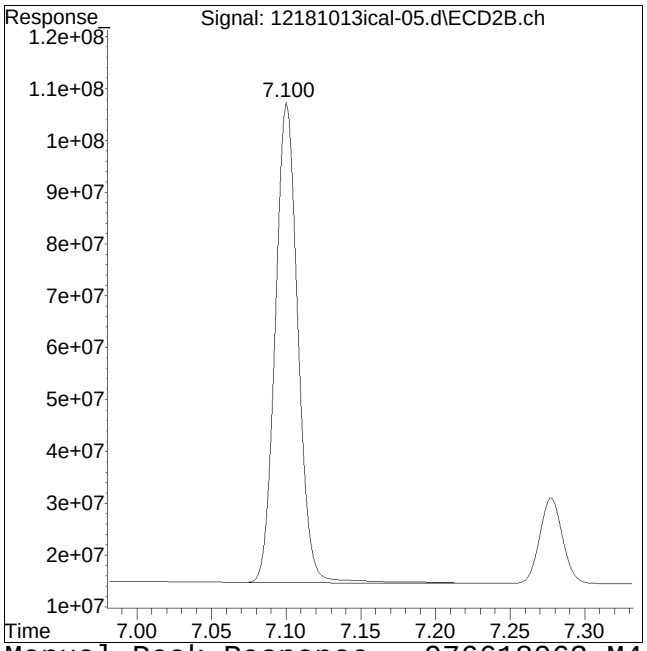
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-05.d
Date Inj'd : 10/13/2018 11:56 am
Sample : il34268,42e,,8667

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:30 am

Compound #84: 1268-5 #2



Original Peak Response = 1046160667



Manual Peak Response = 976618063 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-06.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 12:08 pm
Operator : Pest12:kb
Sample : il44268,42e,,8666
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 10:20:59 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 10:16:09 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	2.070	2.224	743.6E6	1106.4E6	250.000M4	250.000M4
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-06.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 12:08 pm
Operator : Pest12:kb
Sample : il44268,42e,,8666
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 10:20:59 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 10:16:09 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	2.781	3.231	106.5E6	176.2E6	NoCal M4	NoCal M4
25) l6	1242-2	3.024	3.558	234.9E6	391.2E6	NoCal M4	NoCal M4
26) l6	1242-3	3.367	3.952	478.2E6	805.2E6	NoCal M4	NoCal M1
27) l6	1242-4	3.789	4.453	218.9E6	241.6E6	NoCal M4	NoCal M4
28) l6	1242-5	4.127	4.751	171.8E6	245.7E6	NoCal M4	NoCal M4
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	5.857	6.494	888.1E6	1294.2E6	NoCal	NoCal M4
30) l9	1268-2	5.884	6.526	902.9E6	1380.1E6	NoCal	NoCal M4
31) l9	1268-3	6.016	6.699	595.2E6	913.7E6	NoCal	NoCal M4
32) l9	1268-4	6.253	6.878	292.5E6	409.0E6	NoCal	NoCal M4
33) l9	1268-5	6.443	7.099	1592.0E6	2458.5E6	NoCal	NoCal M4
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-06.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 12:08 pm
Operator : Pest12:kb
Sample : il44268,42e,,8666
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 10:20:59 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 10:16:09 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
35)	l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36)	l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37)	l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38)	l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39)	l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41)	l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42)	l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43)	l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44)	l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45)	l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46)	l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47)	l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48)	l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49)	l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50)	l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

	Sum 1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-06.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 12:08 pm
Operator : Pest12:kb
Sample : il44268,42e,,8666
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 10:20:59 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 10:16:09 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

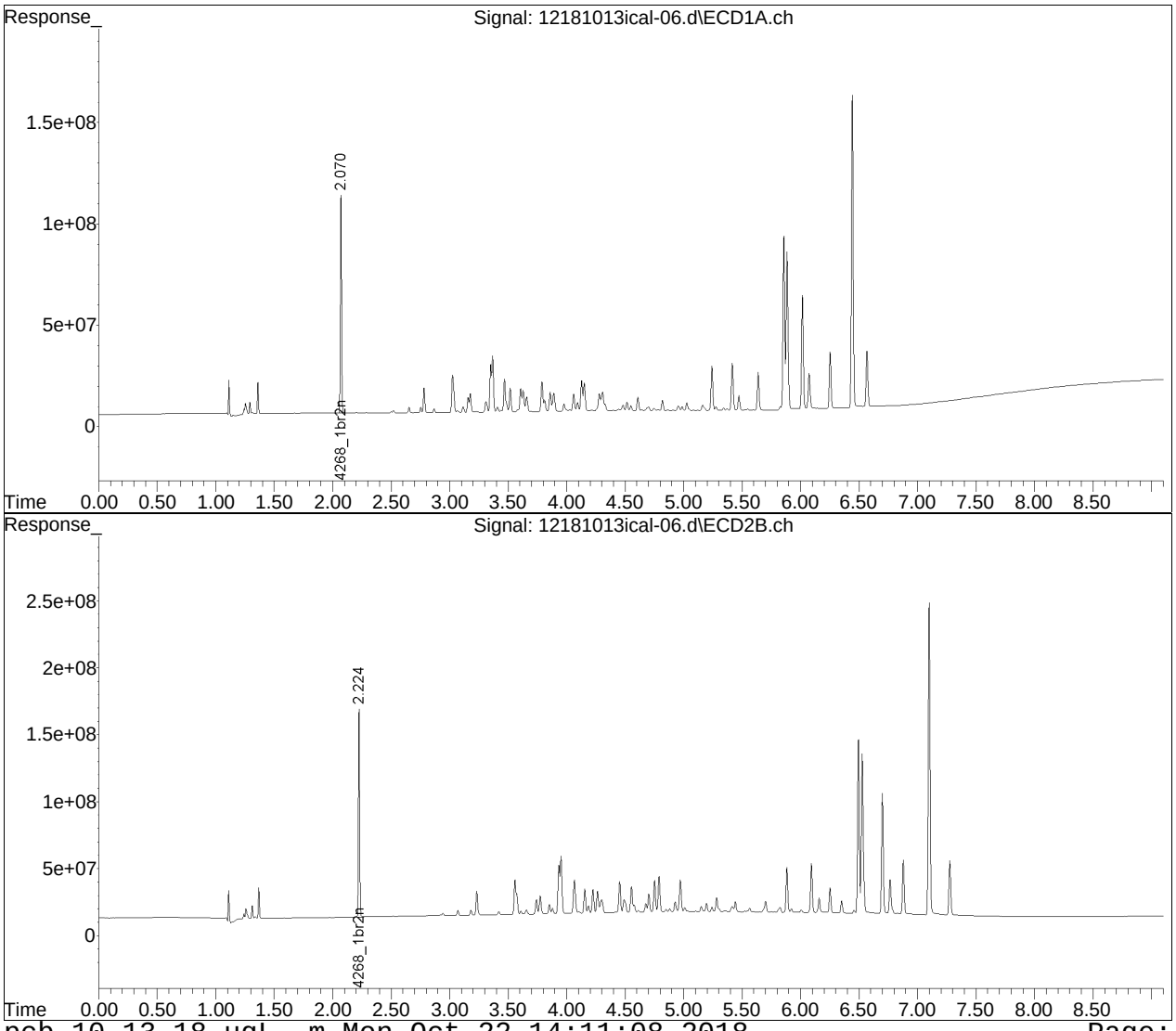
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-06.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 12:08 pm
Operator : Pest12:kb
Sample : il44268,42e,,8666
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 10:20:59 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 10:16:09 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

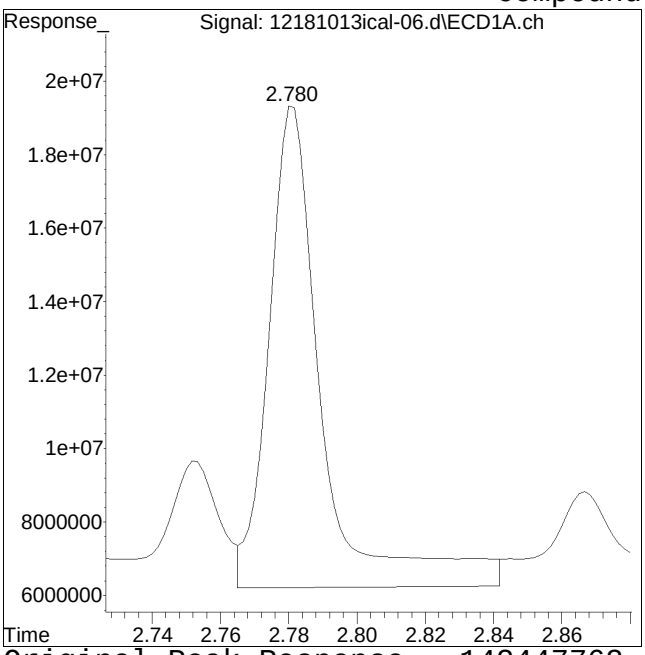


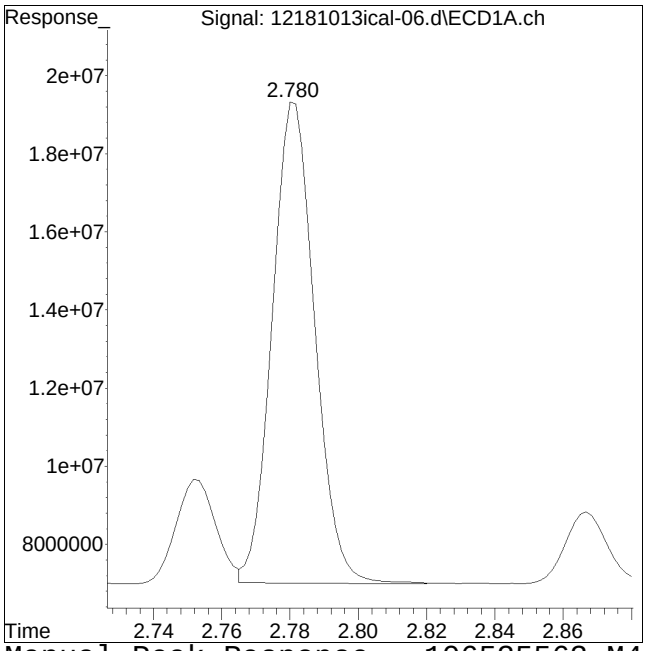
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-06.d
Date Inj'd : 10/13/2018 12:08 pm
Sample : il44268,42e,,8666

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:16 am

Compound #24: 1242-1





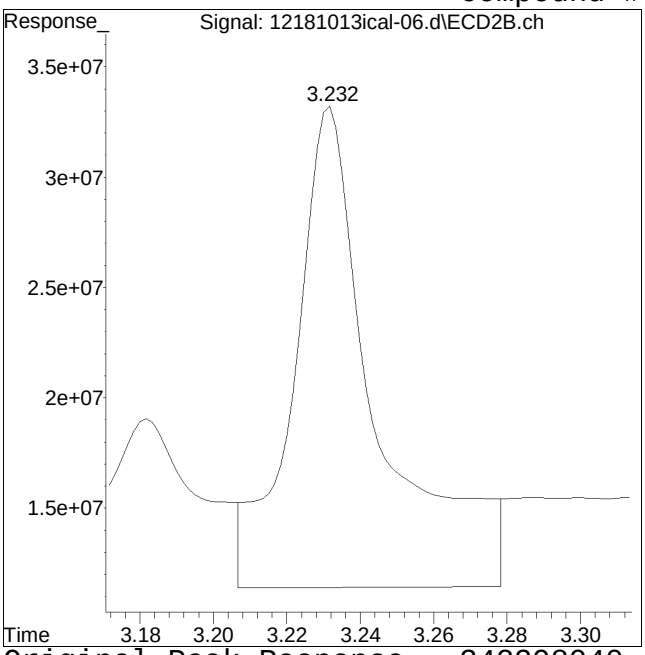
Original Peak Response = 142447762 Manual Peak Response = 106535563 M4
M4 = Poor automated baseline construction.

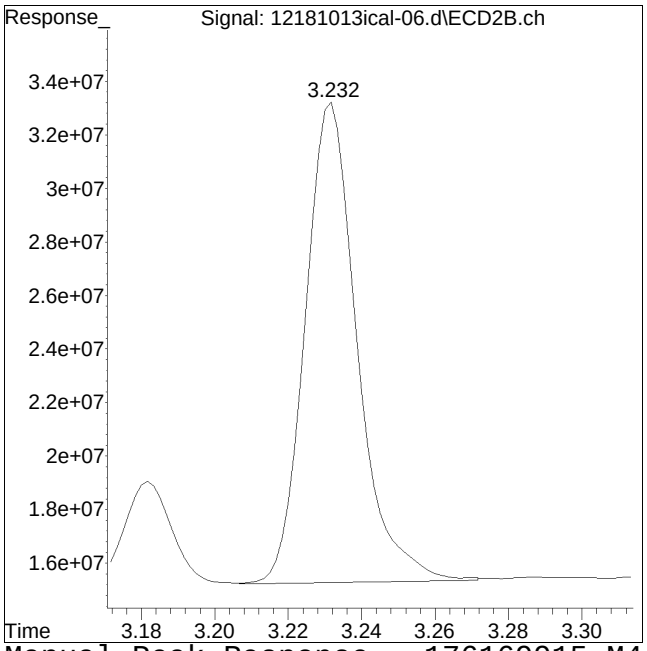
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-06.d
Date Inj'd : 10/13/2018 12:08 pm
Sample : il44268,42e,,8666

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:16 am

Compound #75: 1242-1 #2





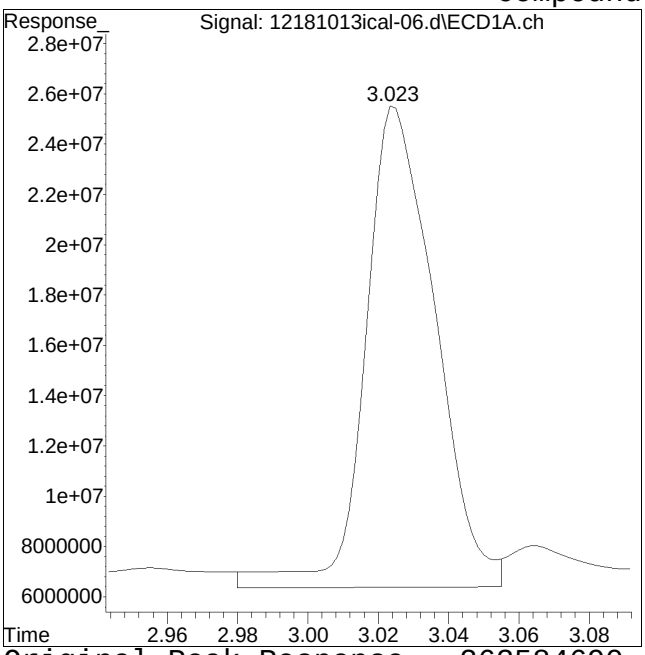
Original Peak Response = 342298940 Manual Peak Response = 176169915 M4
M4 = Poor automated baseline construction.

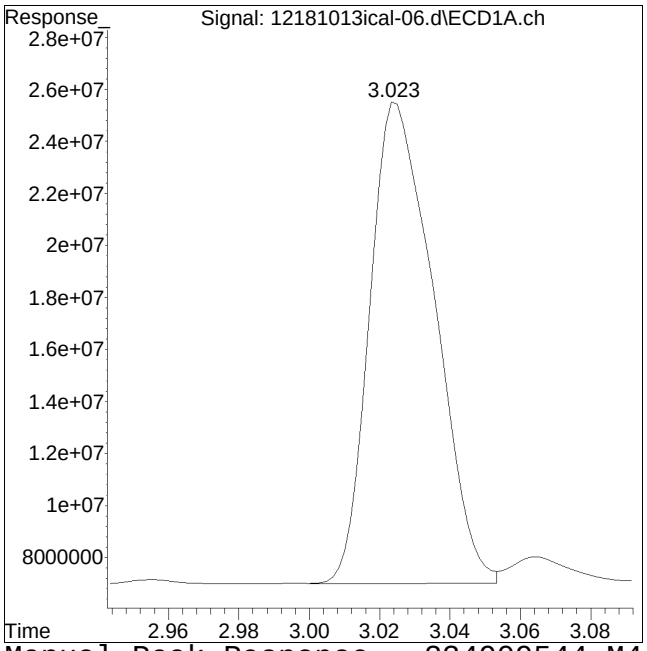
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-06.d
Date Inj'd : 10/13/2018 12:08 pm
Sample : il44268,42e,,8666

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:16 am

Compound #25: 1242-2





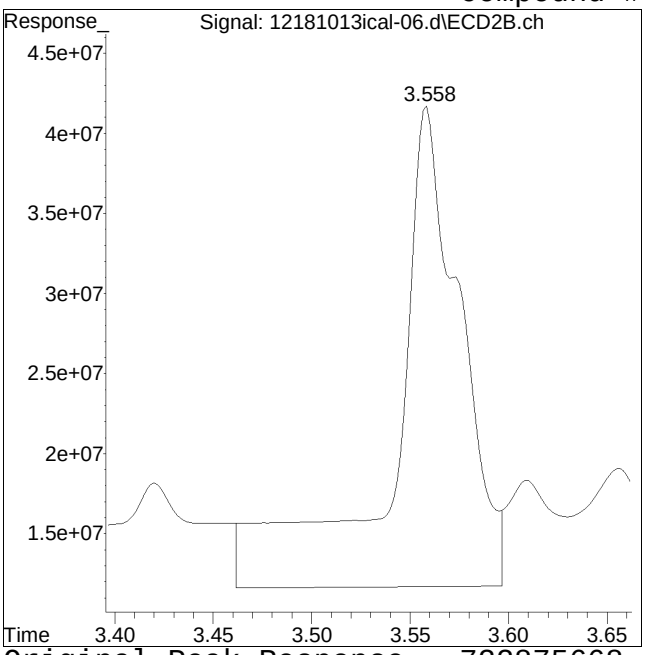
Original Peak Response = 263584690 Manual Peak Response = 234909544 M4
M4 = Poor automated baseline construction.

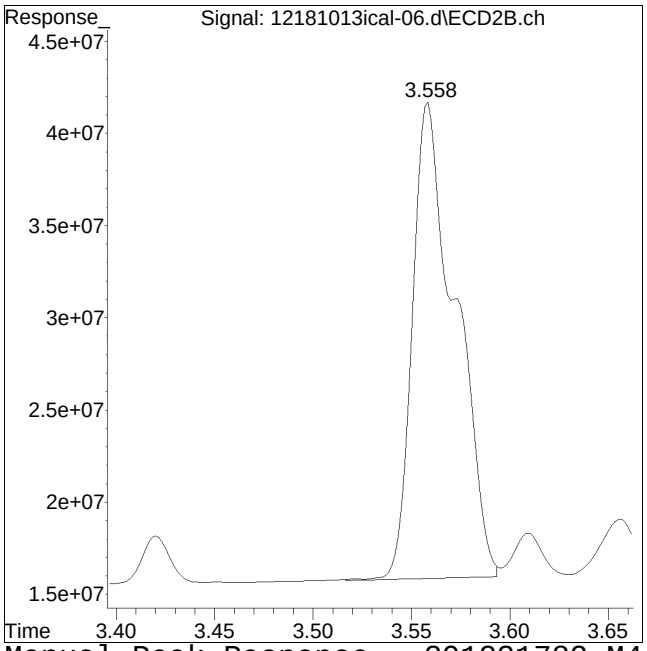
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-06.d
Date Inj'd : 10/13/2018 12:08 pm
Sample : il44268,42e,,8666

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:16 am

Compound #76: 1242-2 #2





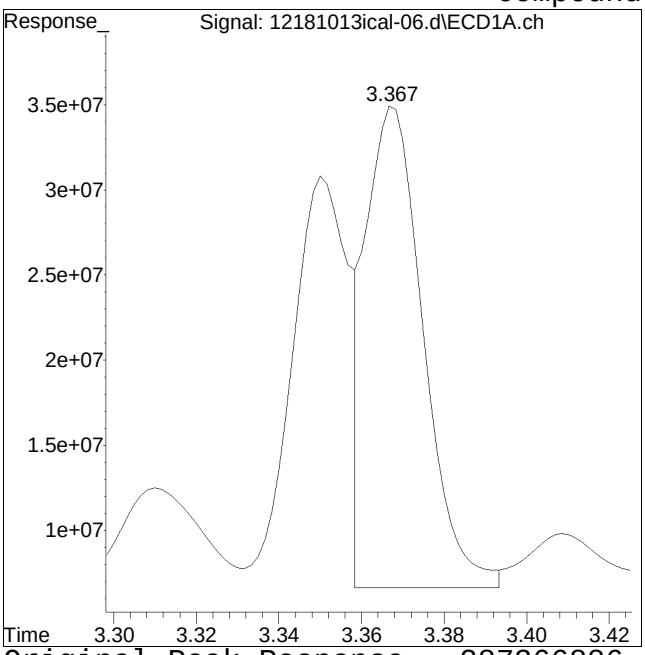
Original Peak Response = 722875668 Manual Peak Response = 391231782 M4
M4 = Poor automated baseline construction.

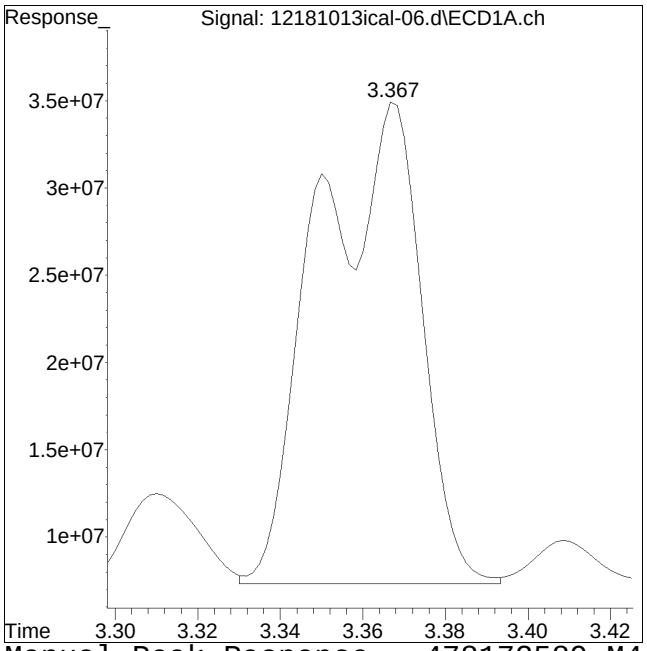
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-06.d
Date Inj'd : 10/13/2018 12:08 pm
Sample : il44268,42e,,8666

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:16 am

Compound #26: 1242-3



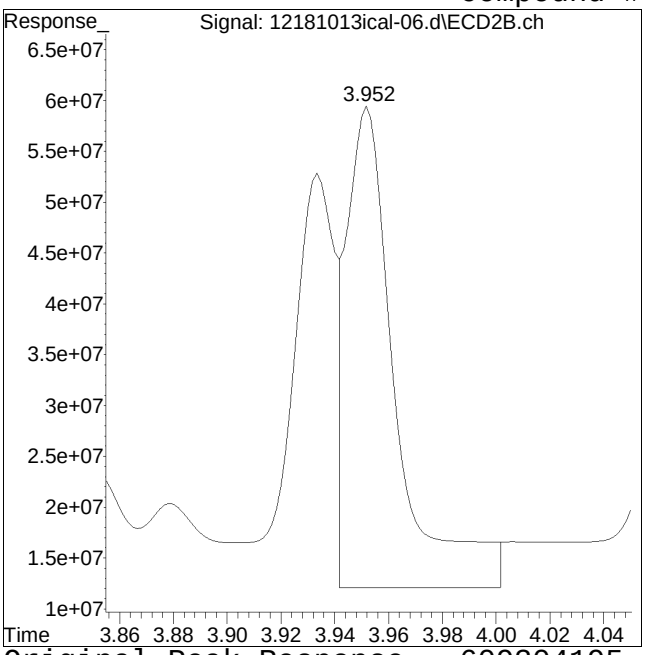


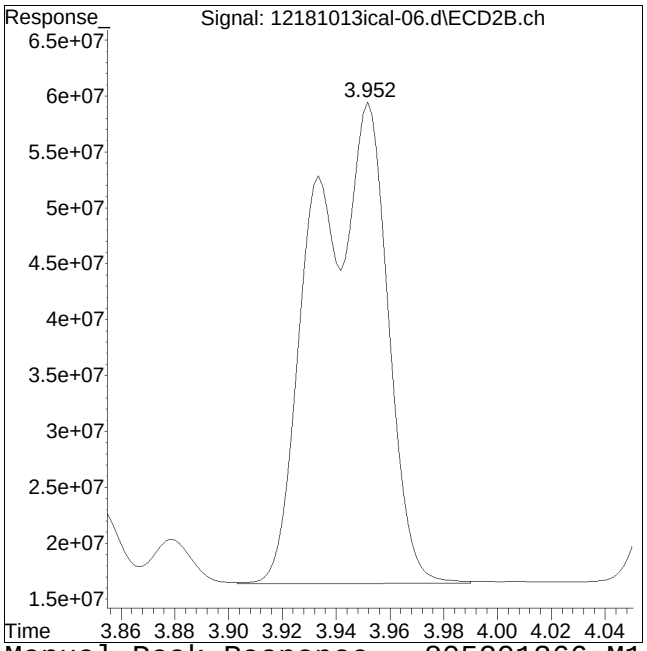
Original Peak Response = 287366886 Manual Peak Response = 478172589 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path	: I:\Pest12\181013ical\	QMethod	: P12_pcb_10-13-18_ugL_.m
Data File	: 12181013ical-06.d	Operator	: Pest12:kb
Date Inj'd	: 10/13/2018 12:08 pm	Instrument	: Pest 12
Sample	: il44268,42e,,8666	Quant Date	: 10/16/2018 10:16 am

Compound #77: 1242-3 #2





Original Peak Response = 609304195 Manual Peak Response = 805201366 M1

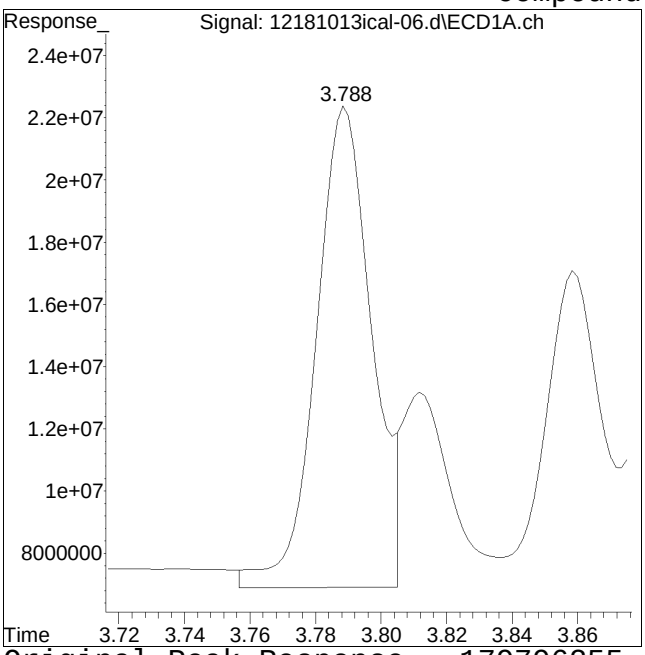
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

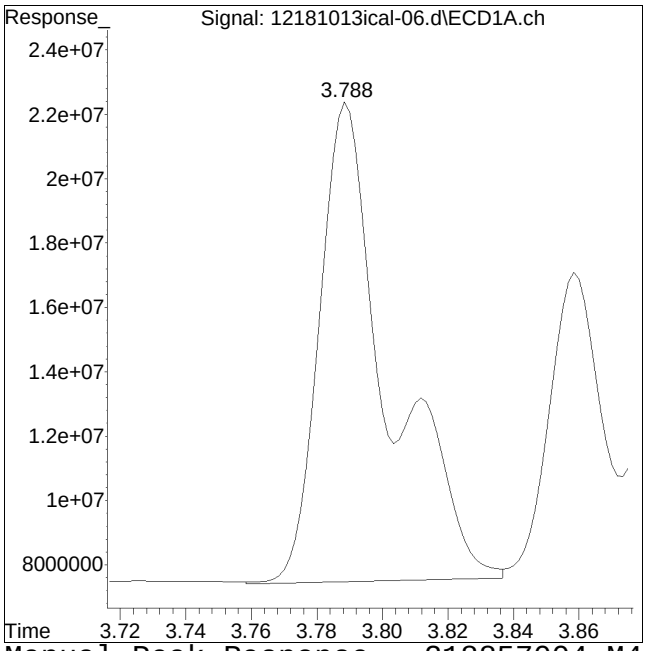
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-06.d
Date Inj'd : 10/13/2018 12:08 pm
Sample : il44268,42e,,8666

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:16 am

Compound #27: 1242-4



Original Peak Response = 179796255



Manual Peak Response = 218857004 M4

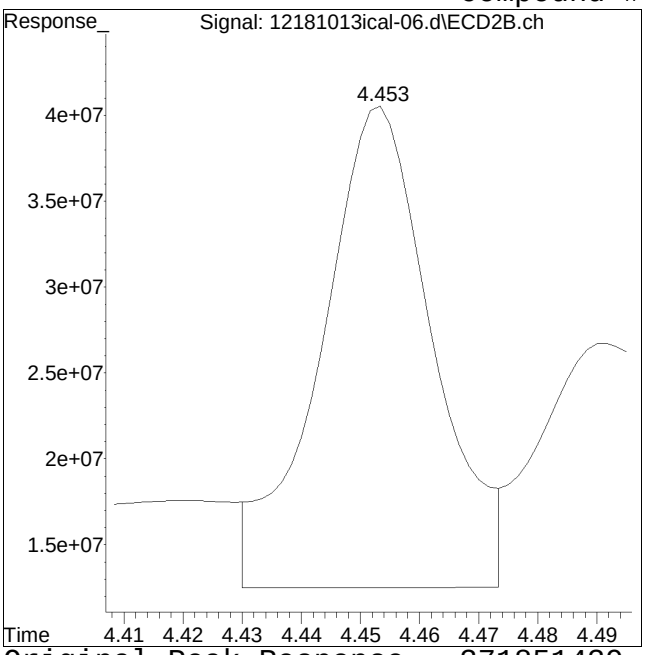
M4 = Poor automated baseline construction.

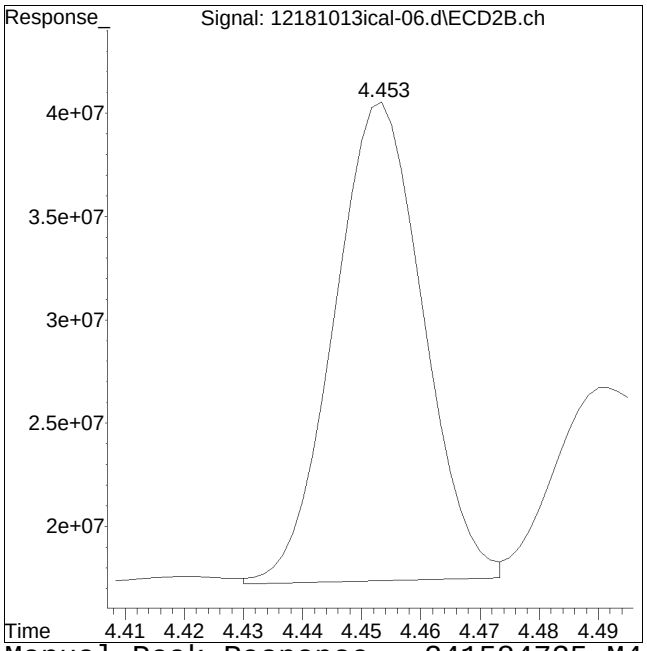
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-06.d
Date Inj'd : 10/13/2018 12:08 pm
Sample : il44268,42e,,8666

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:16 am

Compound #78: 1242-4 #2





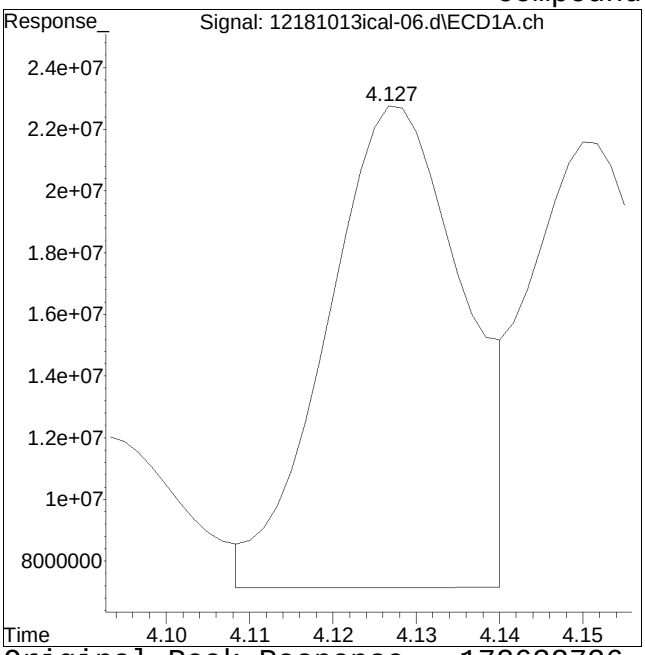
Original Peak Response = 371851439 Manual Peak Response = 241584735 M4
M4 = Poor automated baseline construction.

Manual Integration Report

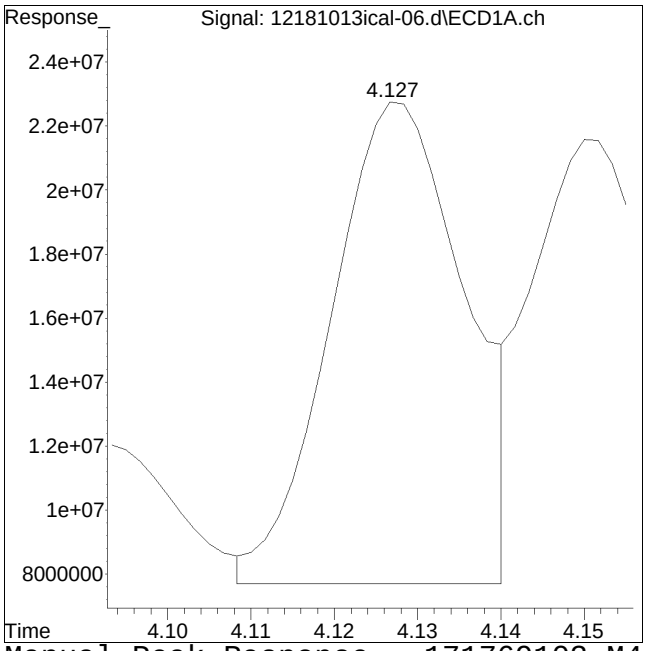
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-06.d
Date Inj'd : 10/13/2018 12:08 pm
Sample : il44268,42e,,8666

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:16 am

Compound #28: 1242-5



Original Peak Response = 172632726



Manual Peak Response = 171769103 M4

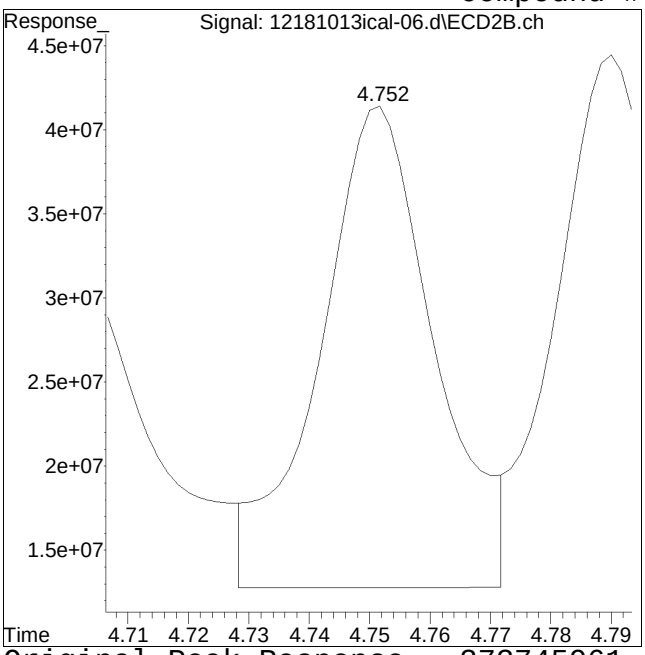
M4 = Poor automated baseline construction.

Manual Integration Report

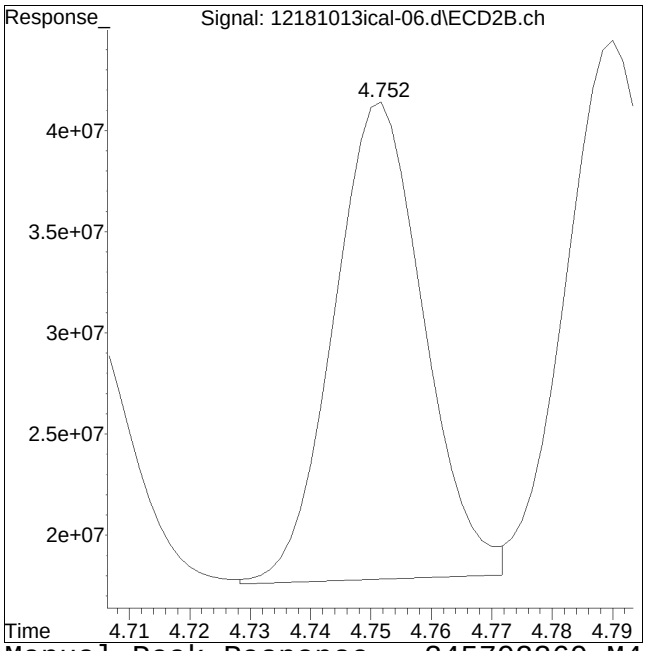
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-06.d
Date Inj'd : 10/13/2018 12:08 pm
Sample : il44268,42e,,8666

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:16 am

Compound #79: 1242-5 #2



Original Peak Response = 373745961



Manual Peak Response = 245702260 M4

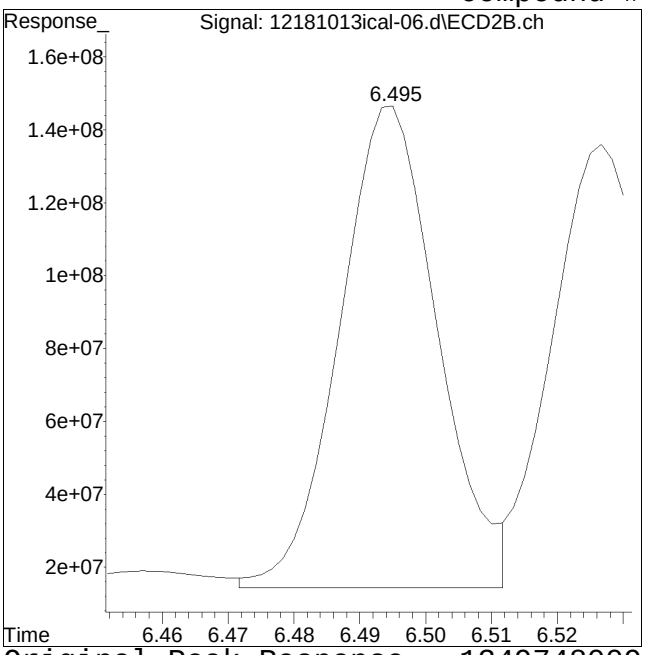
M4 = Poor automated baseline construction.

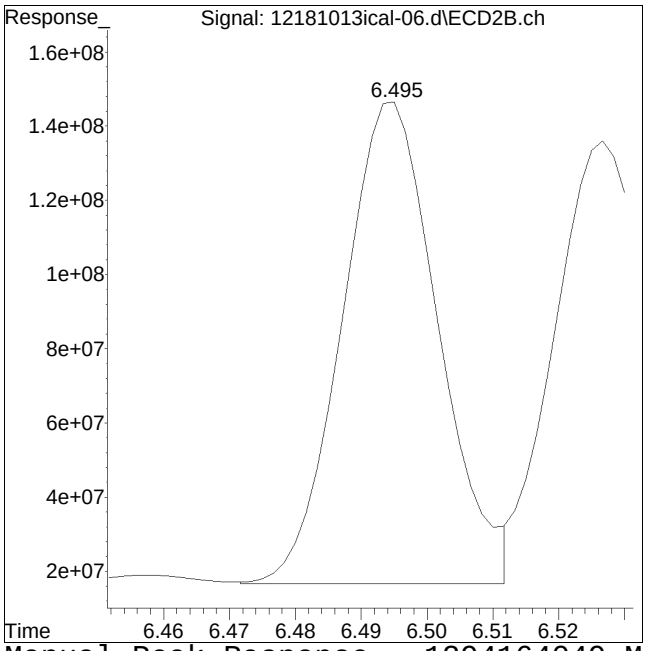
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-06.d
Date Inj'd : 10/13/2018 12:08 pm
Sample : il44268,42e,,8666

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:16 am

Compound #80: 1268-1 #2





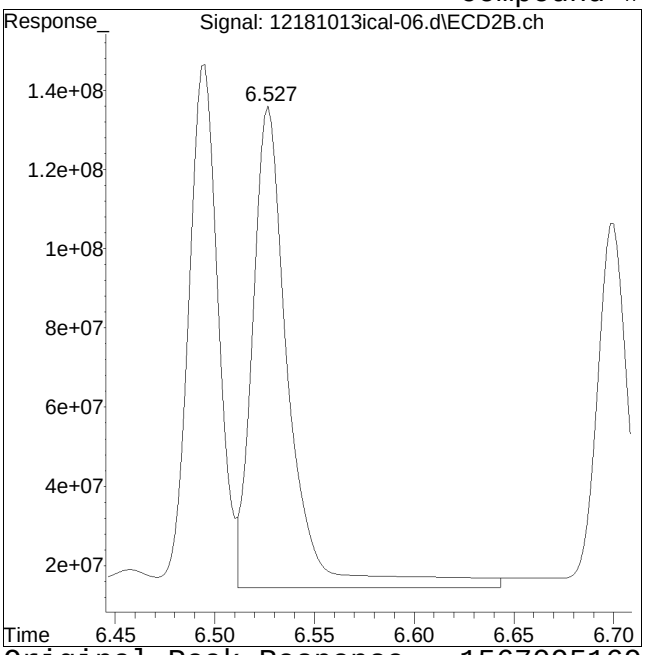
Original Peak Response = 1349748009 Manual Peak Response = 1294164049 M4
M4 = Poor automated baseline construction.

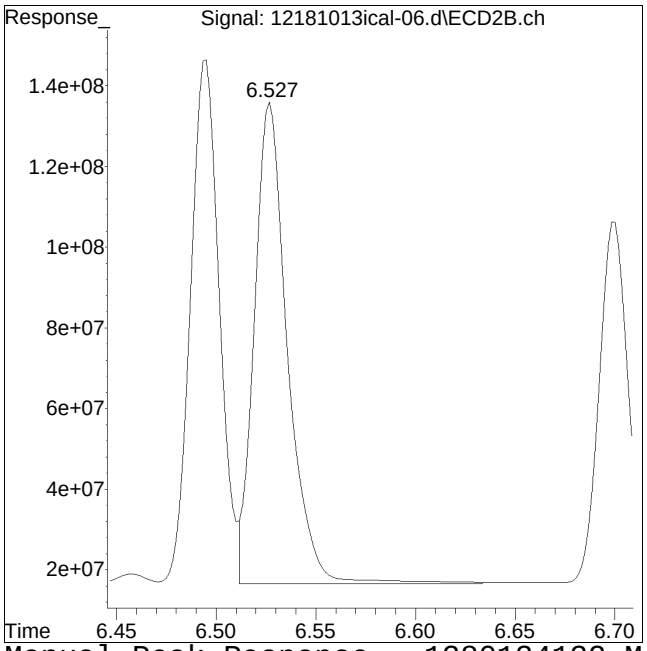
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-06.d
Date Inj'd : 10/13/2018 12:08 pm
Sample : il44268,42e,,8666

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:16 am

Compound #81: 1268-2 #2





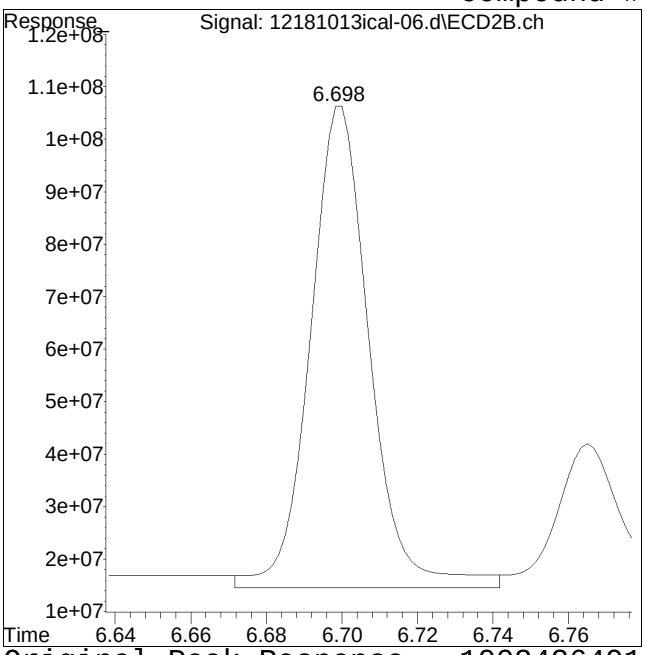
Original Peak Response = 1567095169 Manual Peak Response = 1380134132 M4
M4 = Poor automated baseline construction.

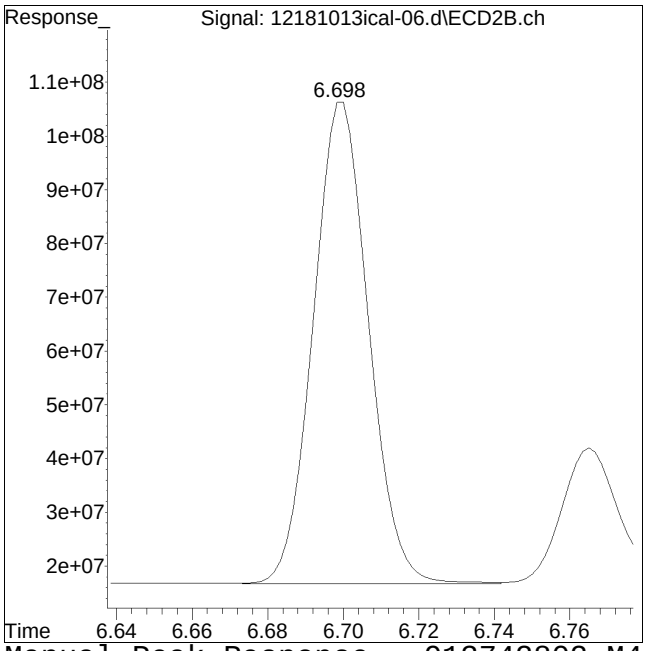
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-06.d
Date Inj'd : 10/13/2018 12:08 pm
Sample : il44268,42e,,8666

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:16 am

Compound #82: 1268-3 #2





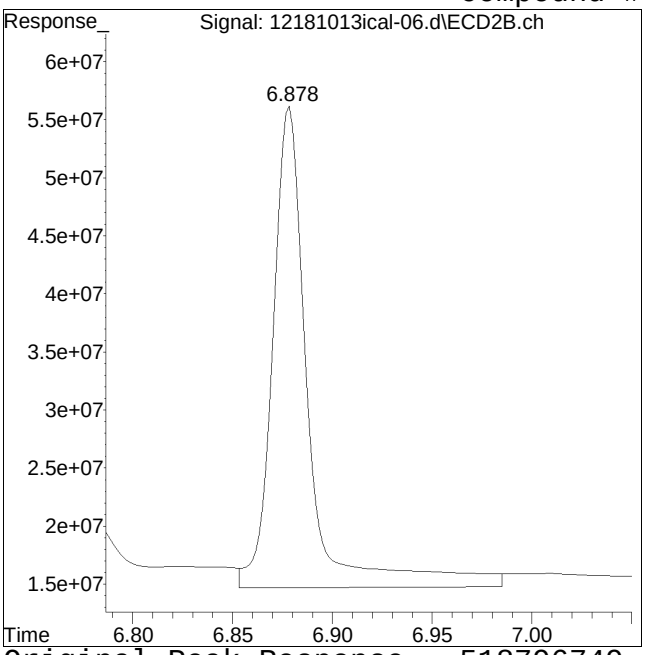
Original Peak Response = 1002426491 Manual Peak Response = 913742802 M4
M4 = Poor automated baseline construction.

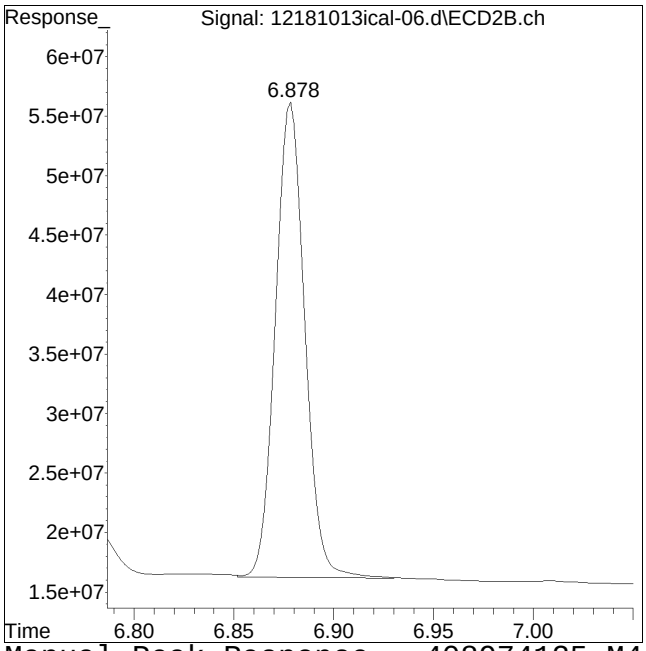
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-06.d
Date Inj'd : 10/13/2018 12:08 pm
Sample : il44268,42e,,8666

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:16 am

Compound #83: 1268-4 #2





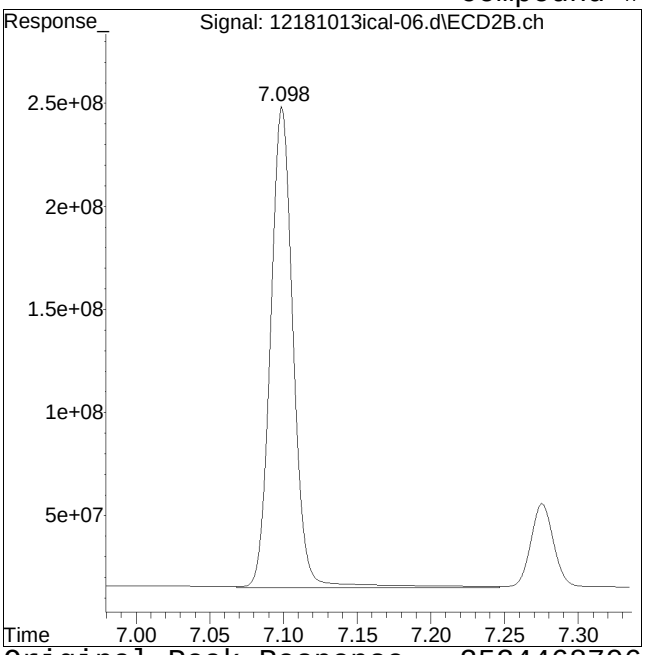
Original Peak Response = 518796749 Manual Peak Response = 408974125 M4
M4 = Poor automated baseline construction.

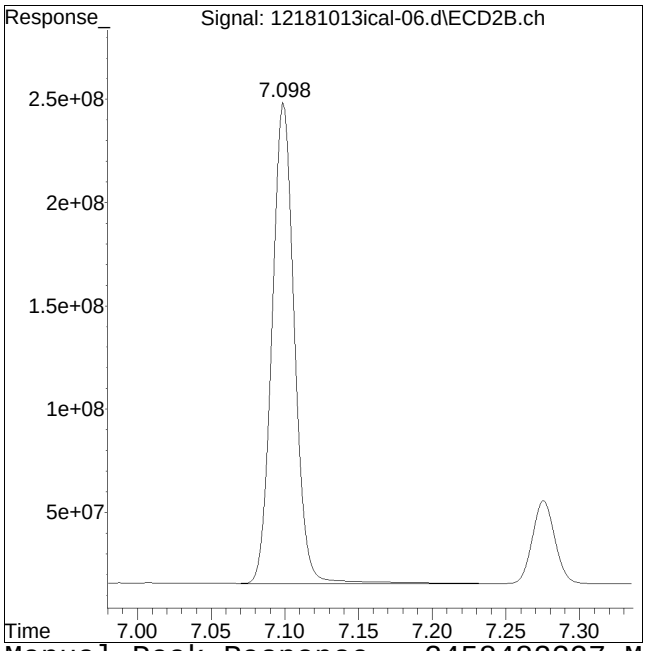
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-06.d
Date Inj'd : 10/13/2018 12:08 pm
Sample : il44268,42e,,8666

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:16 am

Compound #84: 1268-5 #2





Original Peak Response = 2524468706 Manual Peak Response = 2458482337 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-07.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 12:20 pm
Operator : Pest12:kb
Sample : il54268,42e,,8665
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 10:25:48 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 10:21:19 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	2.070	2.224	797.1E6	1185.9E6	250.000	250.000M4
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-07.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 12:20 pm
Operator : Pest12:kb
Sample : il54268,42e,,8665
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 10:25:48 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 10:21:19 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	2.781	3.231	207.9E6	350.3E6	4551.639	4637.591M4
25) l6	1242-2	3.025	3.558	453.8E6	781.9E6	4505.216	4661.333M4
26) l6	1242-3	3.367	3.952	947.9E6	1623.9E6	4623.336	4703.827M1
27) l6	1242-4	3.788	4.452	426.4E6	497.4E6	4543.552M1	4802.331M4
28) l6	1242-5	4.127	4.751	321.6E6	497.9E6	4366.339	4726.100M4
Sum	1242-1			2357.6E6	3751.3E6	22590.082	23531.181
Average	1242-1					4518.016	4706.236
29) l9	1268-1	5.855	6.494	1790.4E6	2599.1E6	4701.897M4	4684.172M4
30) l9	1268-2	5.883	6.526	1812.5E6	2847.9E6	4681.812	4812.895M4
31) l9	1268-3	6.015	6.699	1196.3E6	1874.6E6	4687.637	4785.074M4
32) l9	1268-4	6.252	6.877	591.2E6	825.2E6	4713.736	4706.343M4
33) l9	1268-5	6.441	7.098	3203.9E6	5019.0E6	4693.725	4761.618M4
Sum	1268-1			8594.4E6	13165.7E6	N.D.	N.D. D
Average	1268-1					4695.761	4750.020
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-07.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 12:20 pm
Operator : Pest12:kb
Sample : il54268,42e,,8665
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 10:25:48 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 10:21:19 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

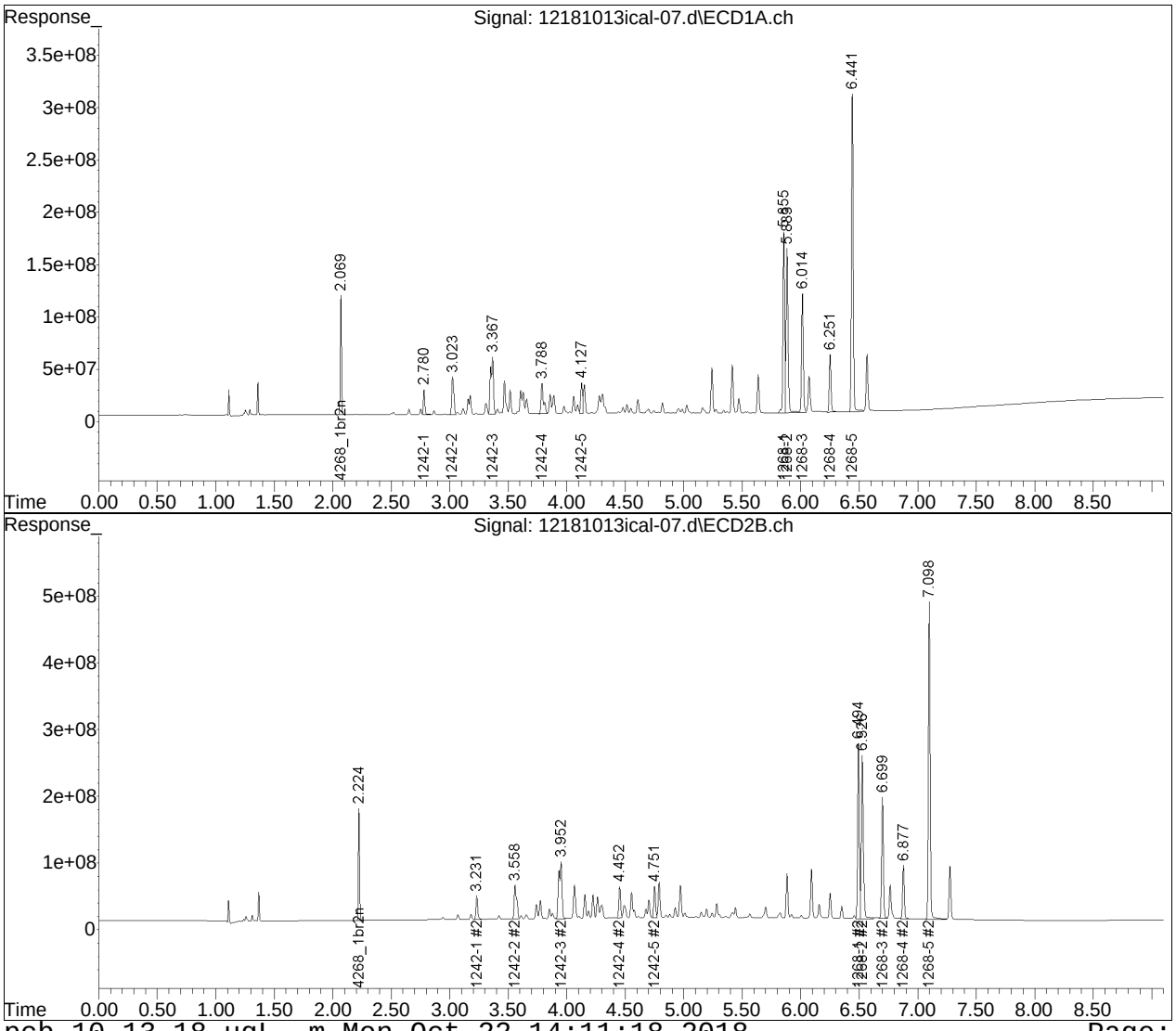
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-07.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 12:20 pm
Operator : Pest12:kb
Sample : il54268,42e,,8665
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 10:25:48 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 10:21:19 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

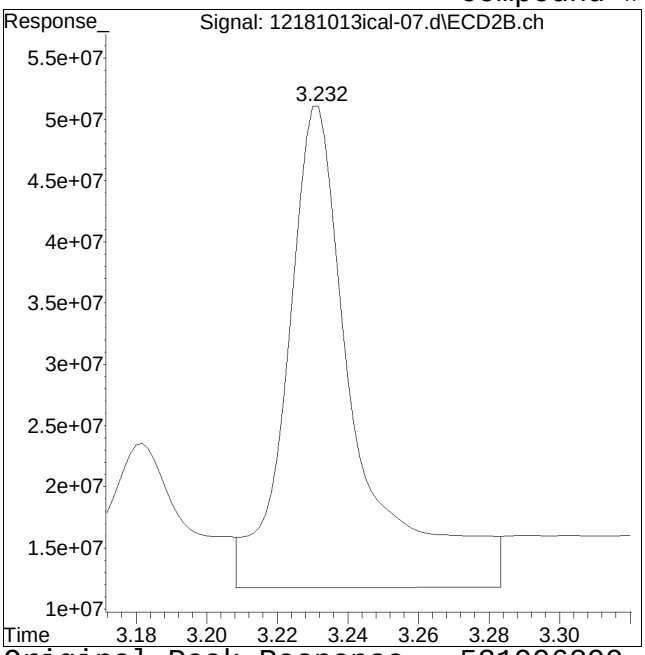


Manual Integration Report

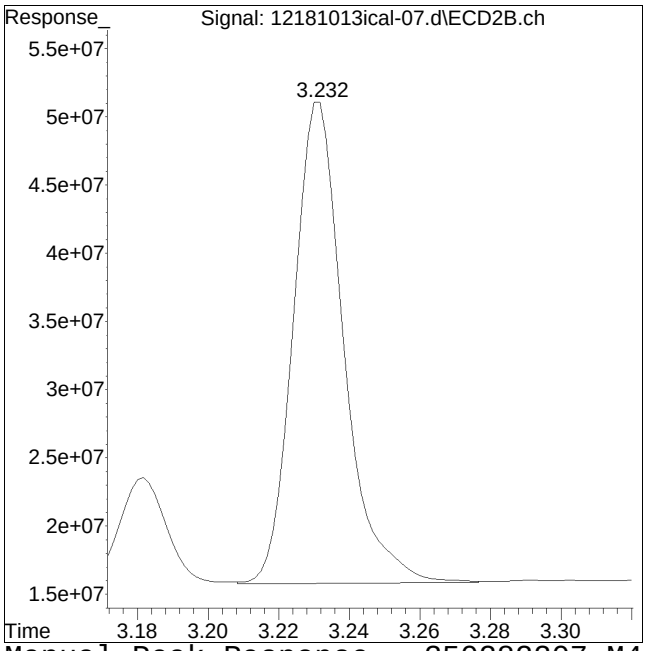
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-07.d
Date Inj'd : 10/13/2018 12:20 pm
Sample : il54268,42e,,8665

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:21 am

Compound #75: 1242-1 #2



Original Peak Response = 531996299



Manual Peak Response = 350282207 M4

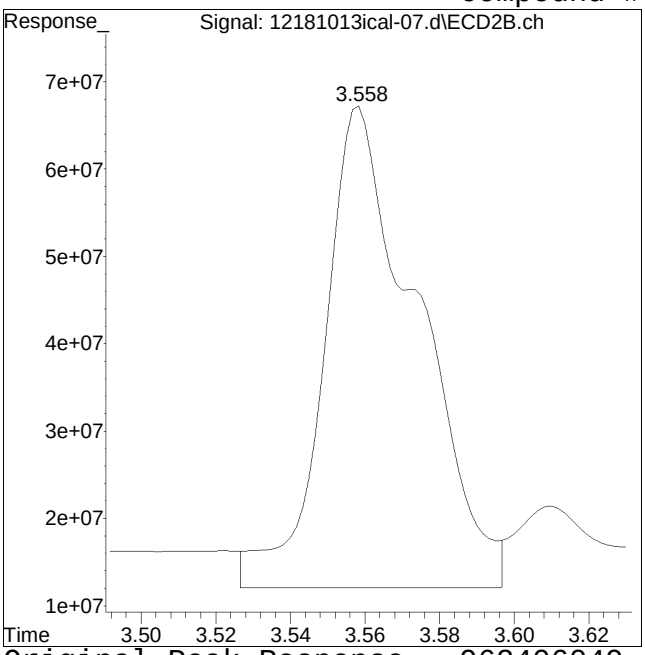
M4 = Poor automated baseline construction.

Manual Integration Report

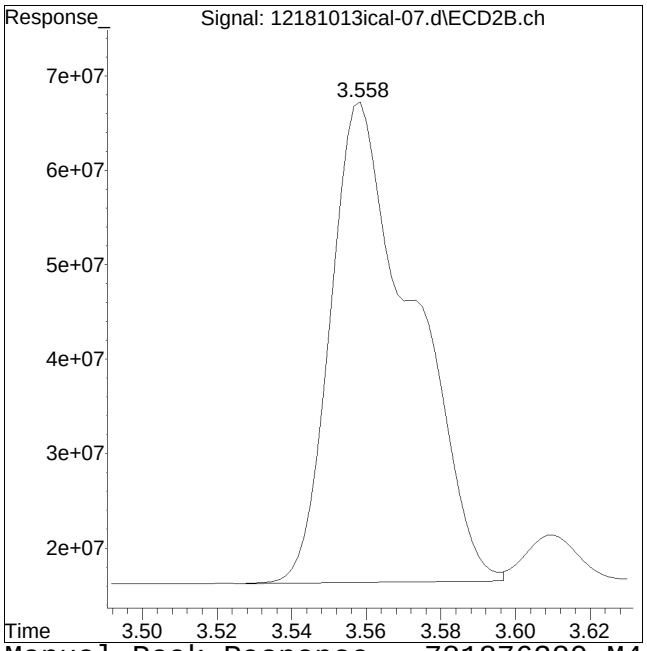
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-07.d
Date Inj'd : 10/13/2018 12:20 pm
Sample : il54268,42e,,8665

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:21 am

Compound #76: 1242-2 #2



Original Peak Response = 962406049



Manual Peak Response = 781876380 M4

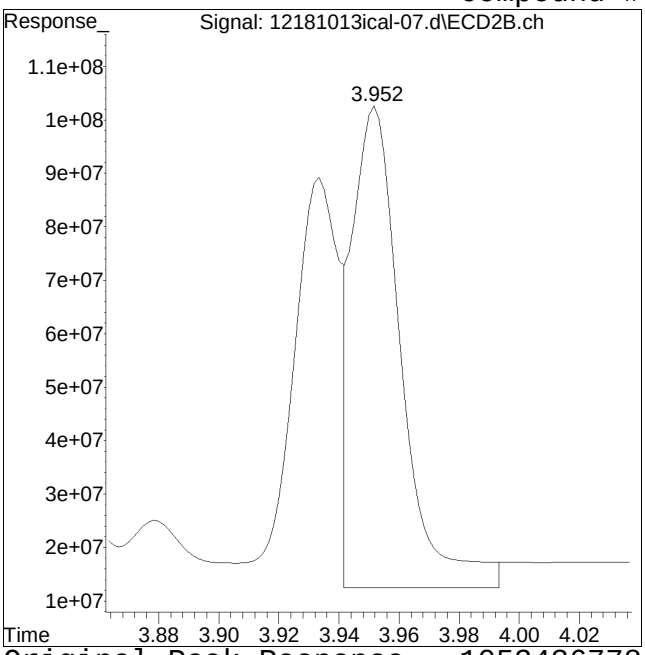
M4 = Poor automated baseline construction.

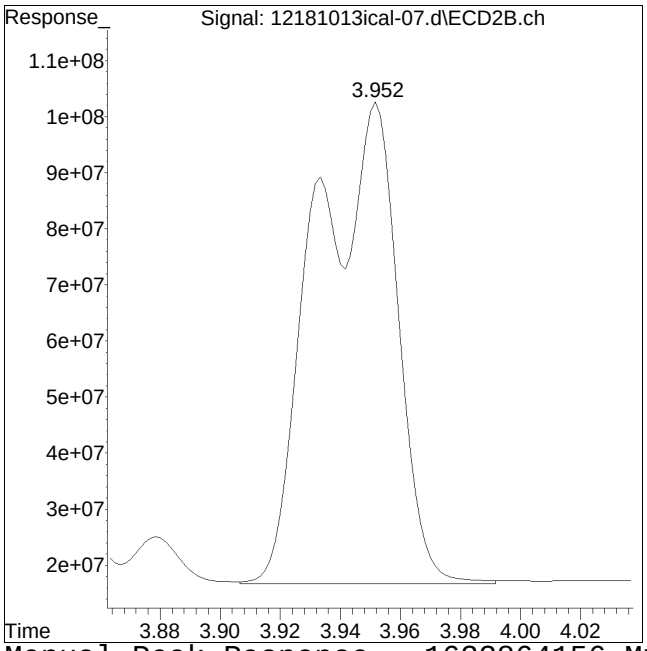
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-07.d
Date Inj'd : 10/13/2018 12:20 pm
Sample : il54268,42e,,8665

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:21 am

Compound #77: 1242-3 #2



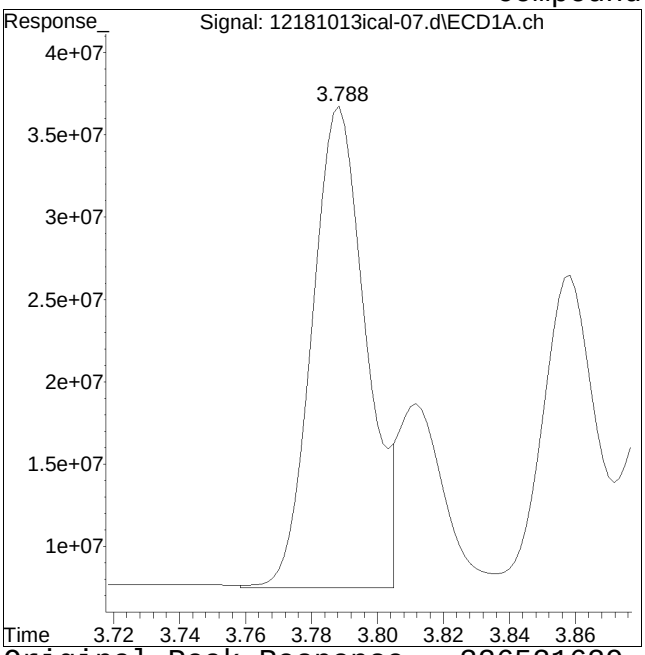


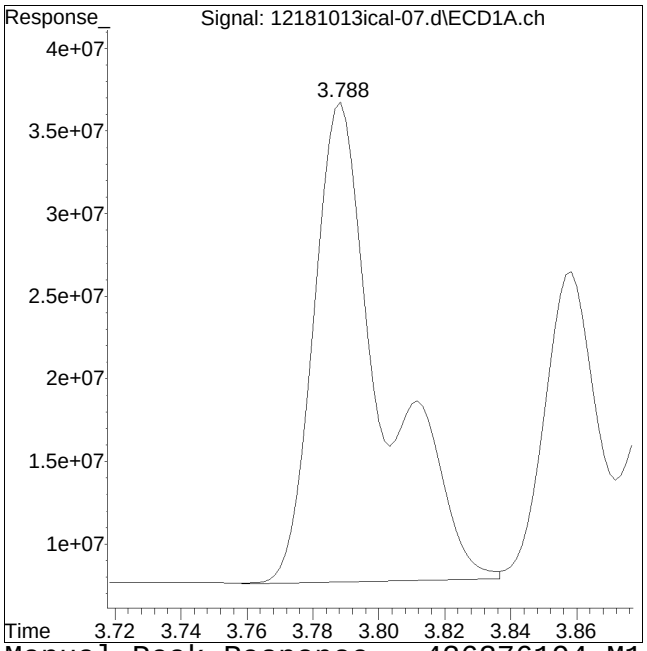
Original Peak Response = 1053436778 Manual Peak Response = 1623864156 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

Data Path	: I:\Pest12\181013ical\	QMethod	: P12_pcb_10-13-18_ugL_.m
Data File	: 12181013ical-07.d	Operator	: Pest12:kb
Date Inj'd	: 10/13/2018 12:20 pm	Instrument	: Pest 12
Sample	: il54268,42e,,8665	Quant Date	: 10/16/2018 10:21 am

Compound #27: 1242-4





Original Peak Response = 326521629 Manual Peak Response = 426376194 M1

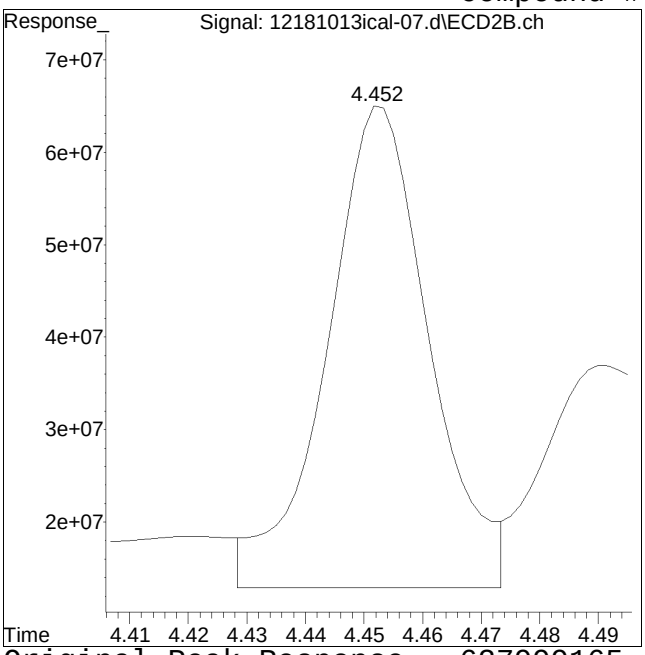
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

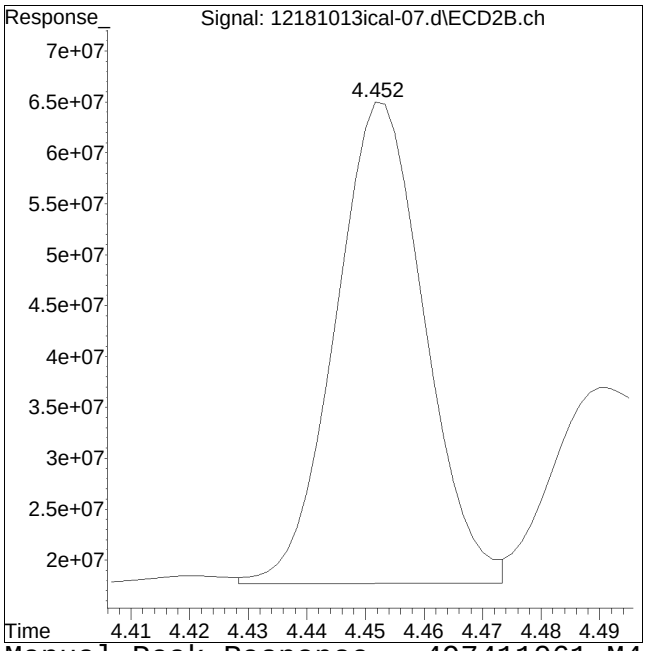
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-07.d
Date Inj'd : 10/13/2018 12:20 pm
Sample : il54268,42e,,8665

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:21 am

Compound #78: 1242-4 #2



Original Peak Response = 627999165



Manual Peak Response = 497411061 M4

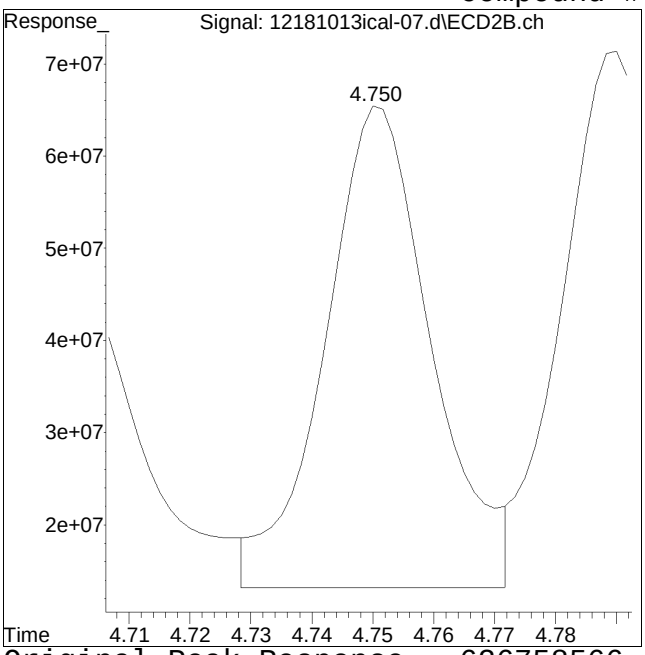
M4 = Poor automated baseline construction.

Manual Integration Report

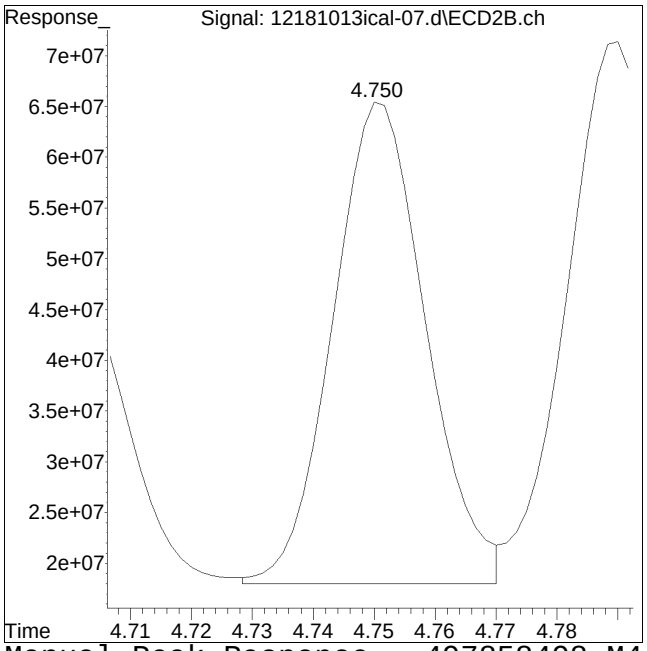
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-07.d
Date Inj'd : 10/13/2018 12:20 pm
Sample : il54268,42e,,8665

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:21 am

Compound #79: 1242-5 #2



Original Peak Response = 626758566



Manual Peak Response = 497858498 M4

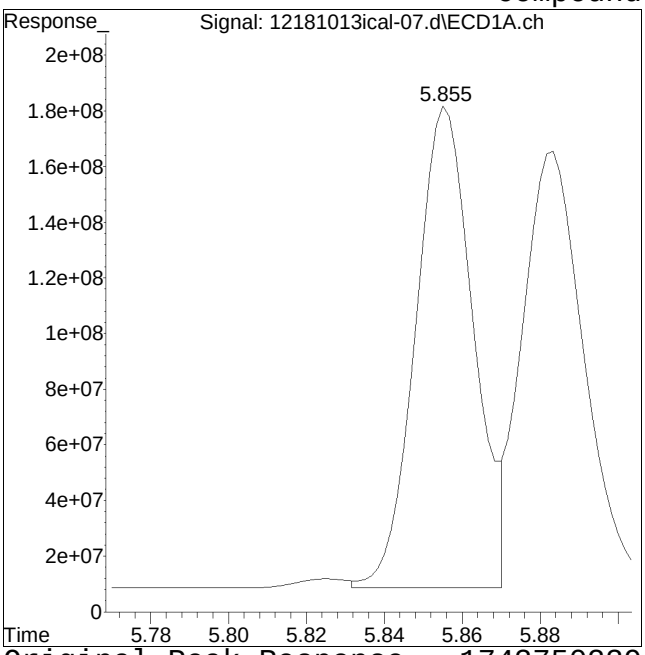
M4 = Poor automated baseline construction.

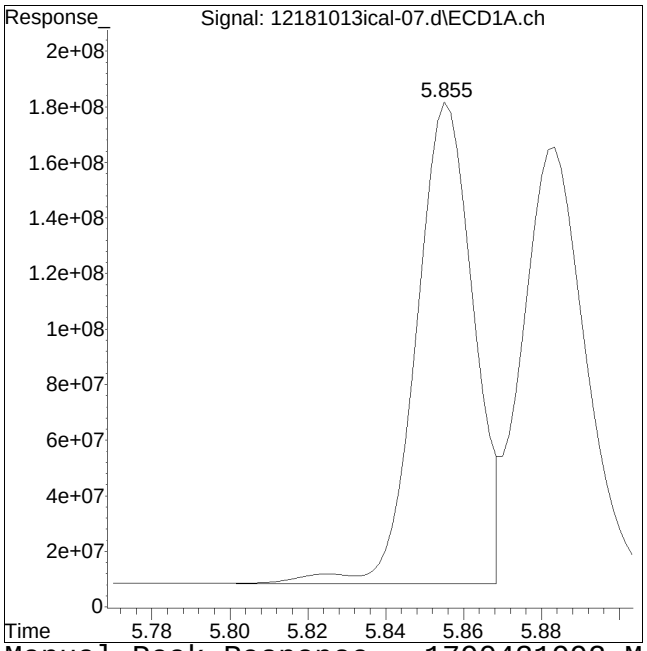
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-07.d
Date Inj'd : 10/13/2018 12:20 pm
Sample : il54268,42e,,8665

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:21 am

Compound #29: 1268-1





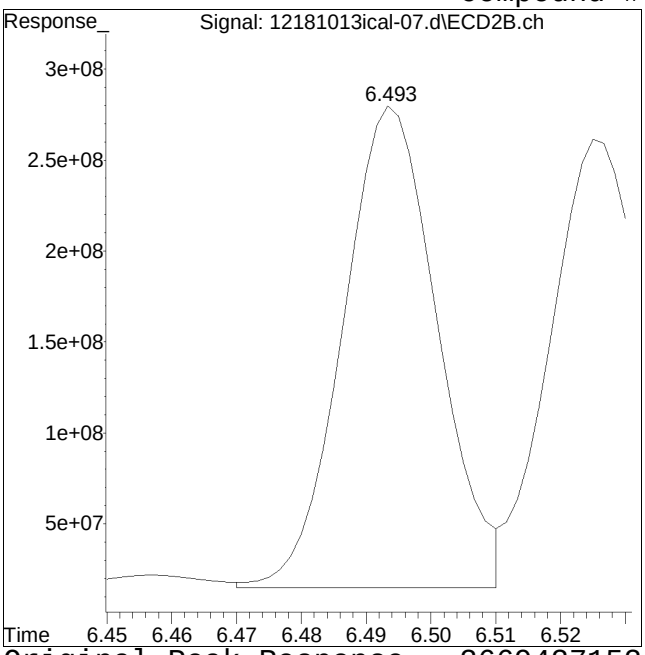
Original Peak Response = 1743750239 Manual Peak Response = 1790431992 M4
M4 = Poor automated baseline construction.

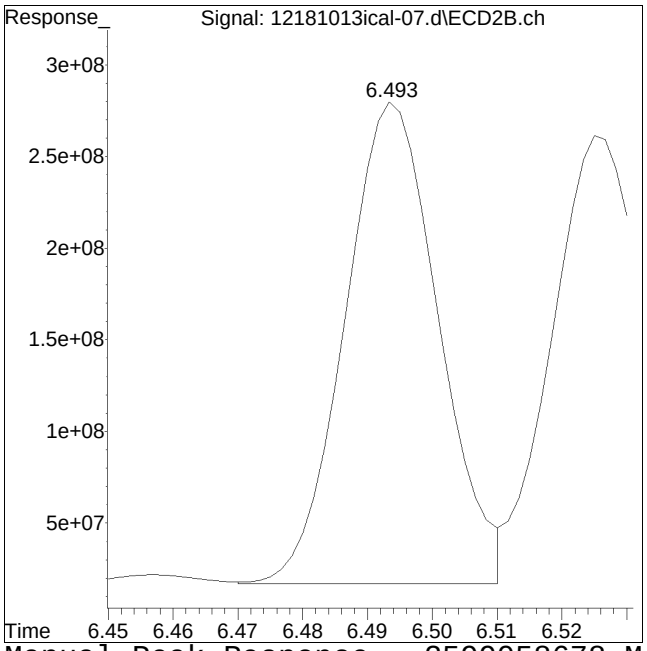
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-07.d
Date Inj'd : 10/13/2018 12:20 pm
Sample : il54268,42e,,8665

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:21 am

Compound #80: 1268-1 #2





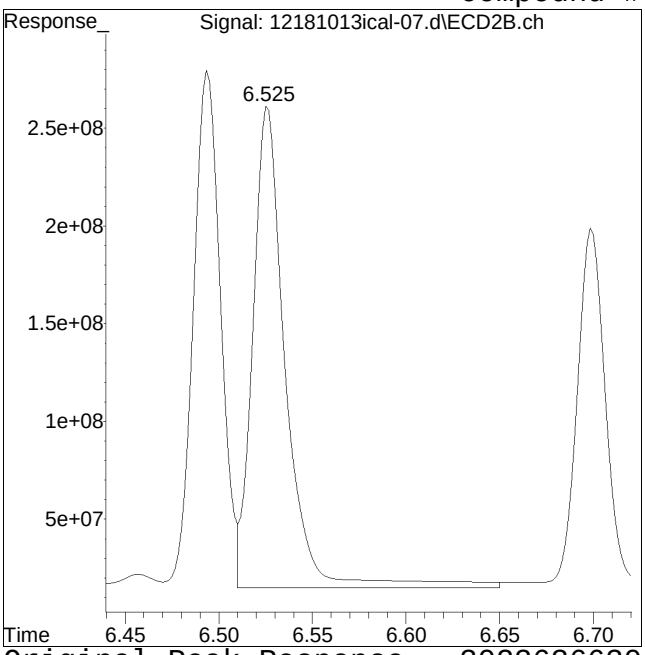
Original Peak Response = 2669427152 Manual Peak Response = 2599058678 M4
M4 = Poor automated baseline construction.

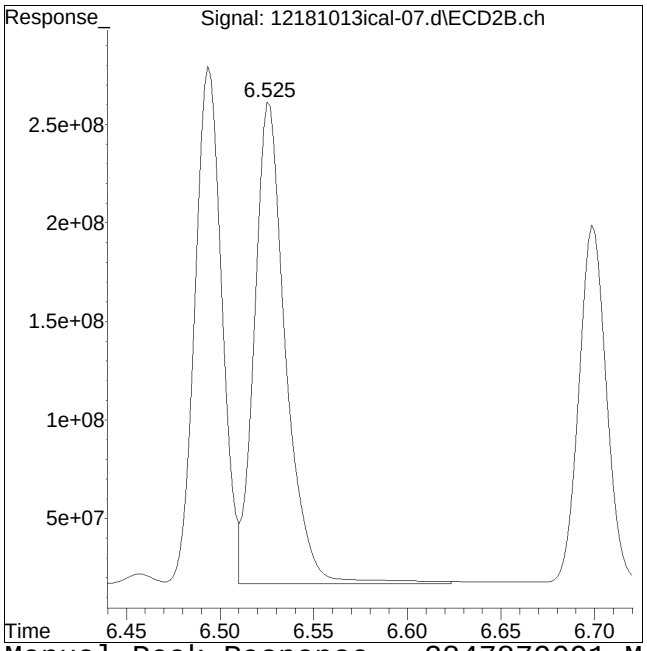
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-07.d
Date Inj'd : 10/13/2018 12:20 pm
Sample : il54268,42e,,8665

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:21 am

Compound #81: 1268-2 #2





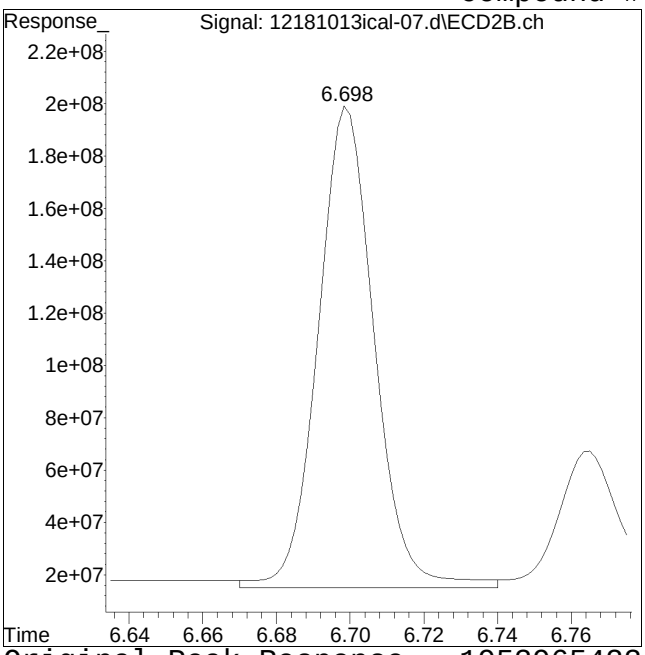
Original Peak Response = 3023636630 Manual Peak Response = 2847879091 M4
M4 = Poor automated baseline construction.

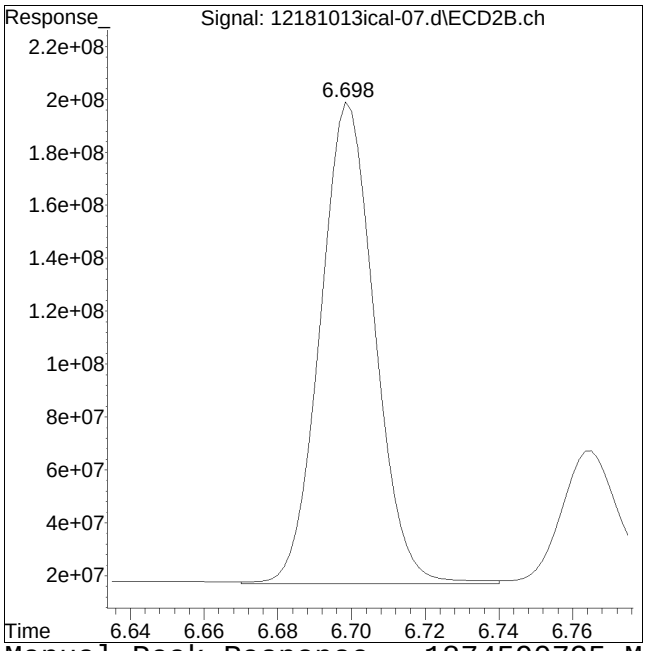
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-07.d
Date Inj'd : 10/13/2018 12:20 pm
Sample : il54268,42e,,8665

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:21 am

Compound #82: 1268-3 #2





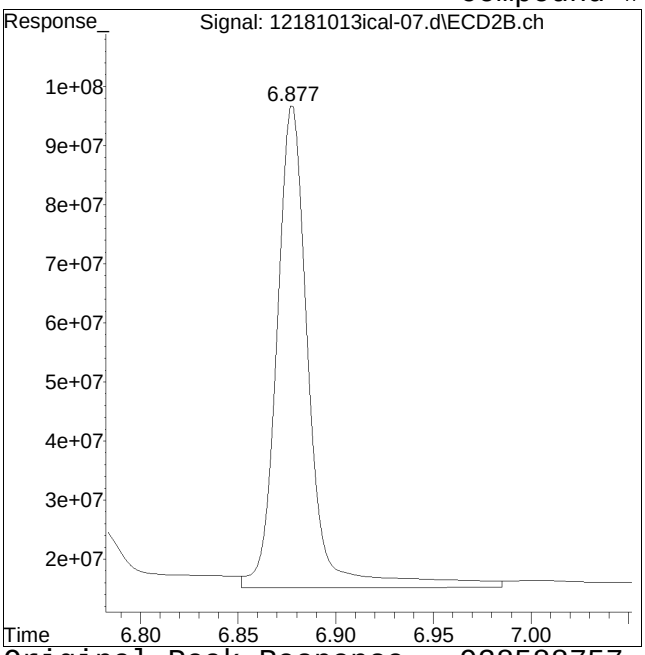
Original Peak Response = 1953965423 Manual Peak Response = 1874590735 M4
M4 = Poor automated baseline construction.

Manual Integration Report

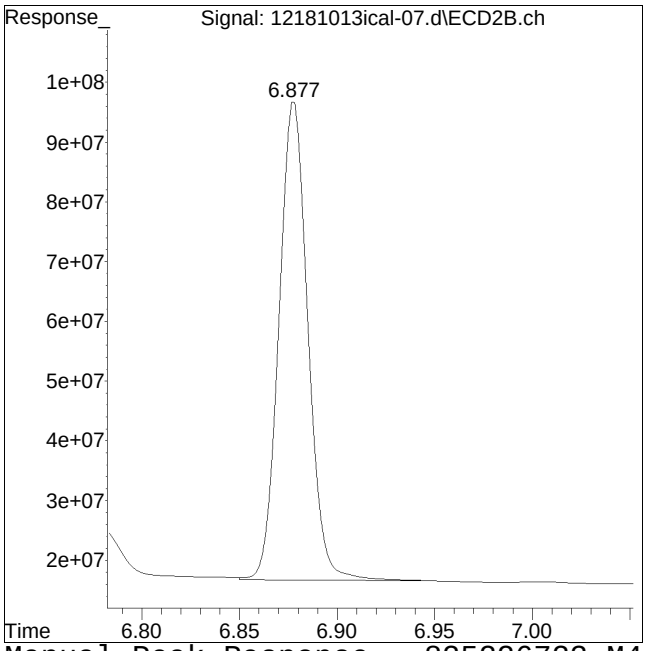
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-07.d
Date Inj'd : 10/13/2018 12:20 pm
Sample : il54268,42e,,8665

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:21 am

Compound #83: 1268-4 #2



Original Peak Response = 938588757



Manual Peak Response = 825226723 M4

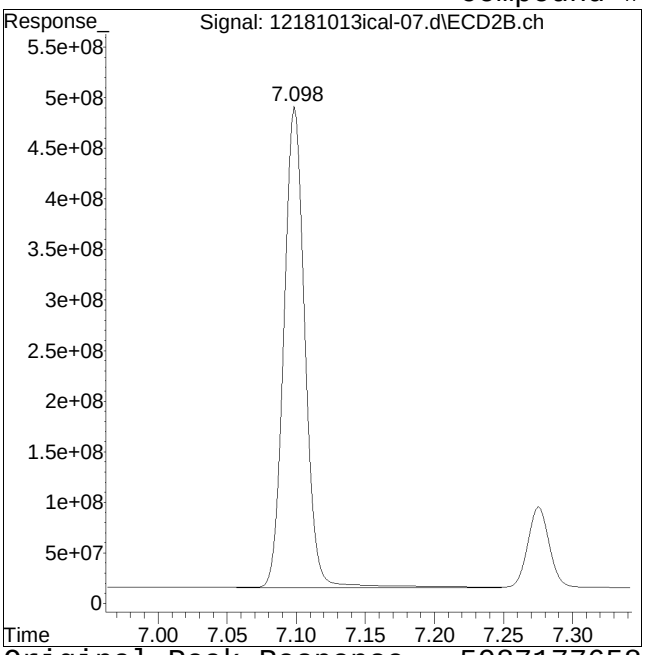
M4 = Poor automated baseline construction.

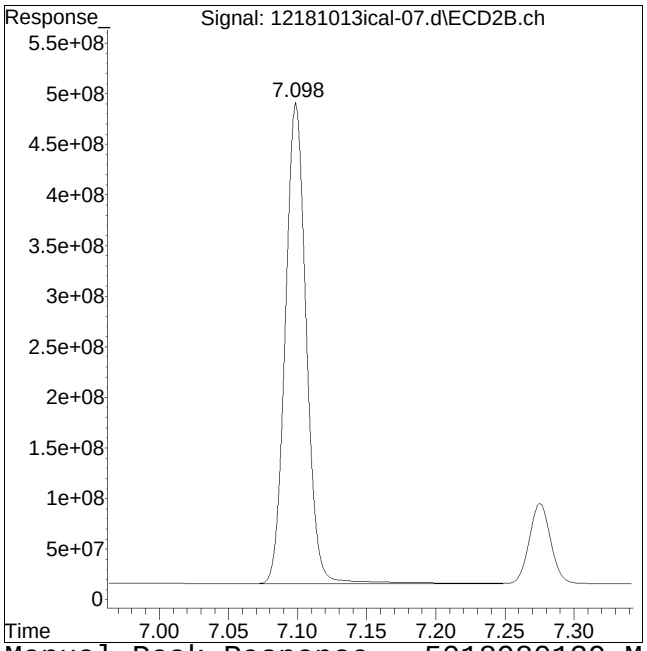
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-07.d
Date Inj'd : 10/13/2018 12:20 pm
Sample : il54268,42e,,8665

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:21 am

Compound #84: 1268-5 #2





Original Peak Response = 5087177658 Manual Peak Response = 5018980139 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-08.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 12:33 pm
Operator : Pest12:kb
Sample : il64268,42e,,8664
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 10:30:04 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 10:26:01 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	2.070	2.224	790.3E6	1171.2E6	250.000	250.000M4
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-08.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 12:33 pm
Operator : Pest12:kb
Sample : il64268,42e,,8664
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 10:30:04 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 10:26:01 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	2.780	3.231	369.9E6	622.2E6	8549.976	8654.241M4
25) l6	1242-2	3.024	3.558	819.8E6	1380.0E6	8636.758	8622.253M4
26) l6	1242-3	3.366	3.951	1739.8E6	2879.1E6	8893.680M1	8702.064M4
27) l6	1242-4	3.787	4.452	801.6E6	891.1E6	9027.907M1	8886.770M4
28) l6	1242-5	4.127	4.751	596.7E6	898.9E6	8724.419	8883.698M4
Sum	1242-1			4327.9E6	6671.3E6	43832.741	43749.026
Average	1242-1					8766.548	8749.805
29) l9	1268-1	5.855	6.493	3337.8E6	4823.1E6	9112.405	9088.391M4
30) l9	1268-2	5.882	6.526	3427.8E6	5256.0E6	9223.803	9165.380M4
31) l9	1268-3	6.014	6.699	2271.4E6	3513.5E6	9266.696	9280.516M4
32) l9	1268-4	6.250	6.877	1125.3E6	1574.6E6	9316.466	9368.027M4
33) l9	1268-5	6.440	7.098	6113.3E6	9276.1E6	9318.274	9128.330M4
Sum	1268-1			16275.6E6	24443.2E6	N.D.	N.D. D
Average	1268-1					9247.529	9206.129
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-08.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 12:33 pm
Operator : Pest12:kb
Sample : il64268,42e,,8664
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 10:30:04 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 10:26:01 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

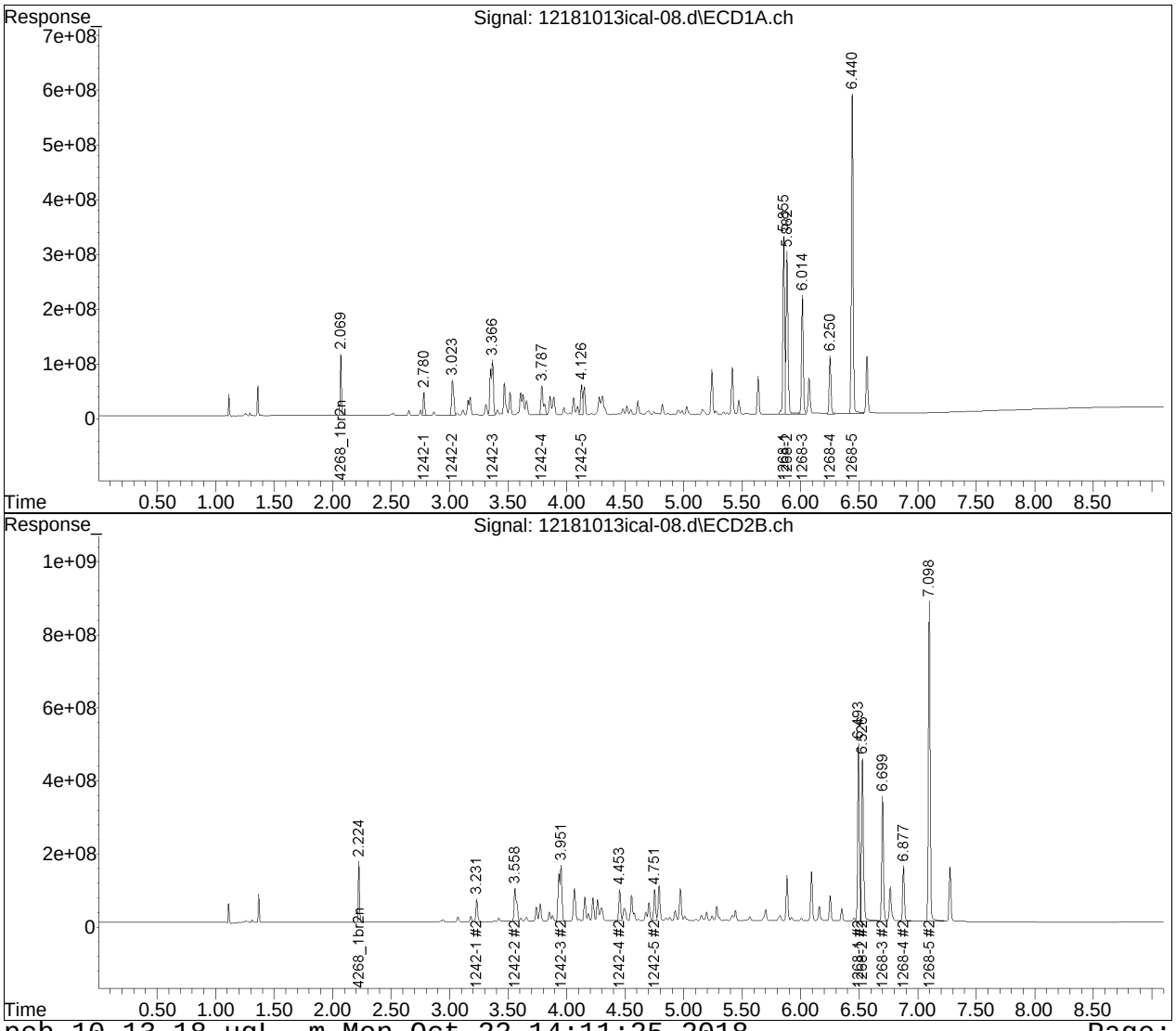
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-08.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 12:33 pm
Operator : Pest12:kb
Sample : il64268,42e,,8664
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 10:30:04 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 10:26:01 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

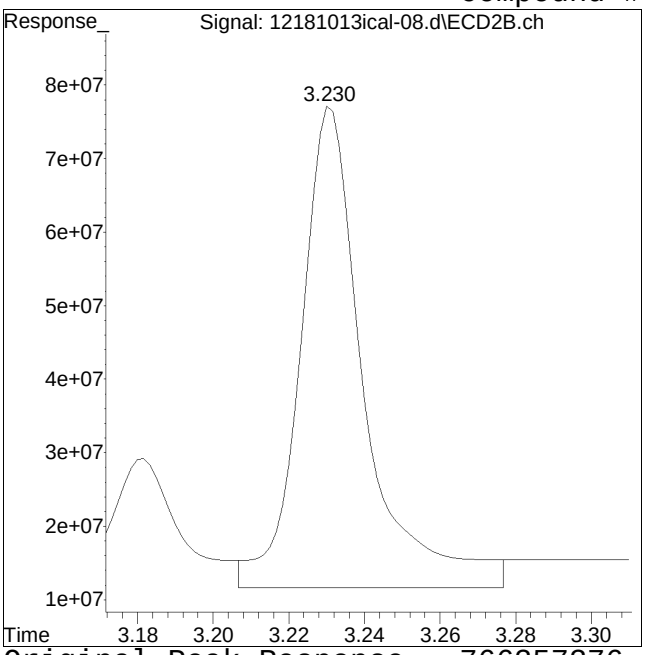


Manual Integration Report

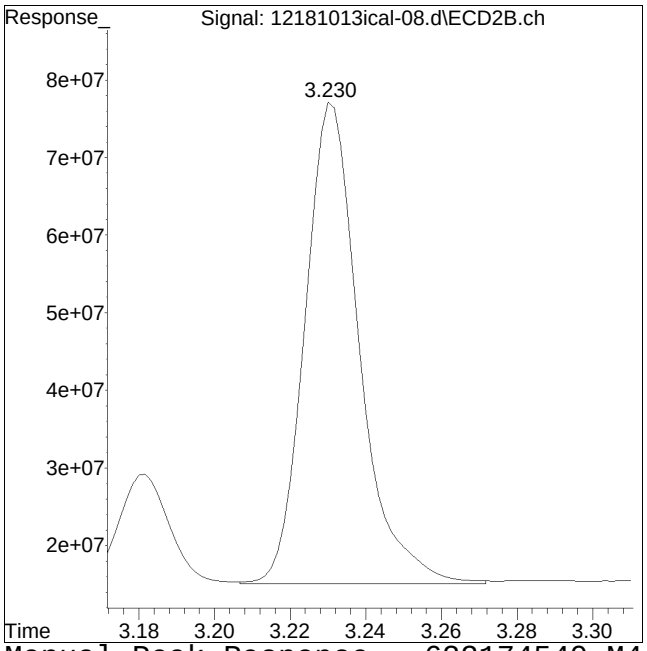
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-08.d
Date Inj'd : 10/13/2018 12:33 pm
Sample : il64268,42e,,8664

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:26 am

Compound #75: 1242-1 #2



Original Peak Response = 766357376



Manual Peak Response = 622174540 M4

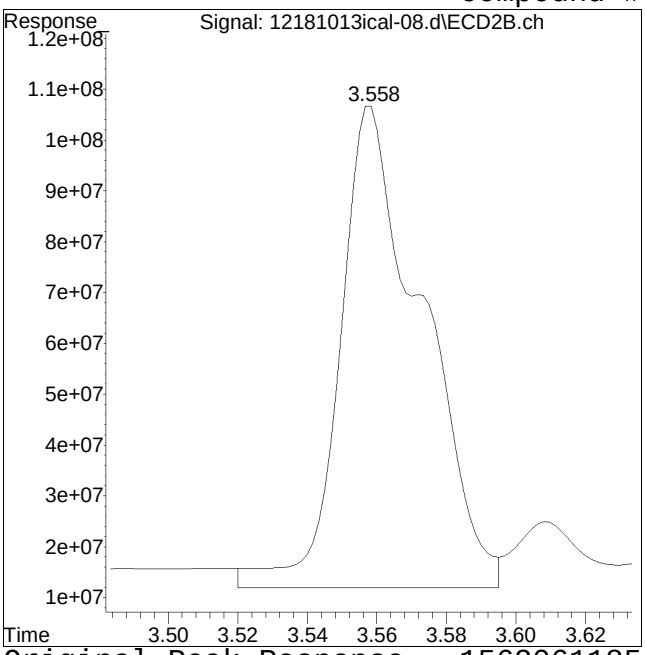
M4 = Poor automated baseline construction.

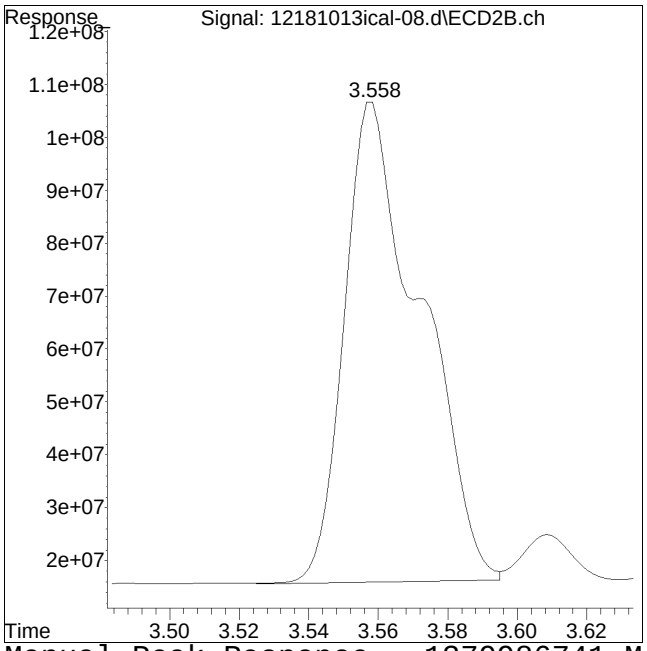
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-08.d
Date Inj'd : 10/13/2018 12:33 pm
Sample : il64268,42e,,8664

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:26 am

Compound #76: 1242-2 #2





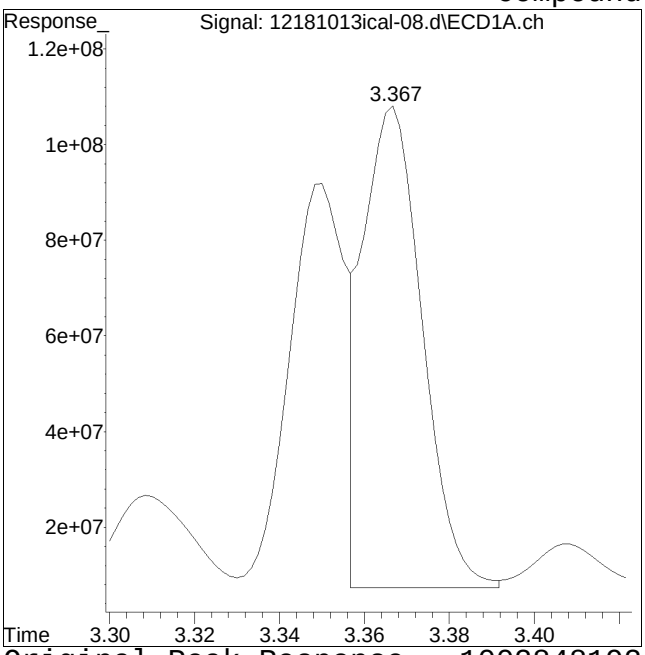
Original Peak Response = 1562061185 Manual Peak Response = 1379986741 M4
M4 = Poor automated baseline construction.

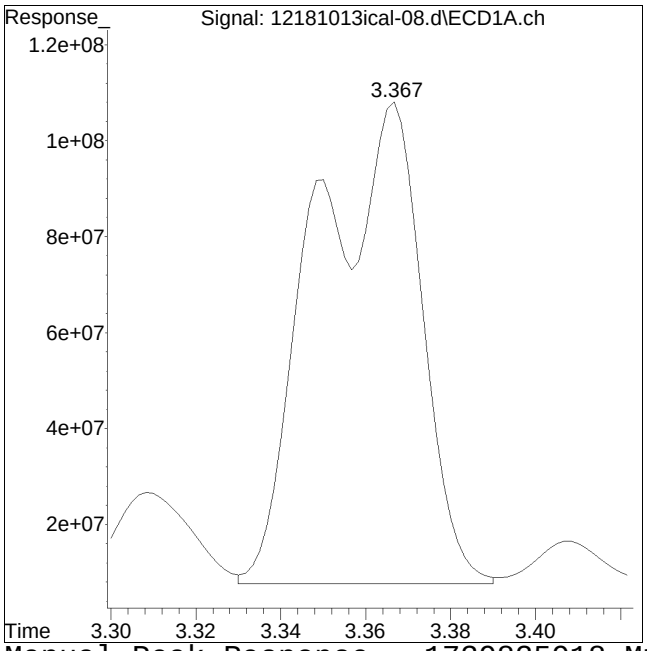
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-08.d
Date Inj'd : 10/13/2018 12:33 pm
Sample : il64268,42e,,8664

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:26 am

Compound #26: 1242-3





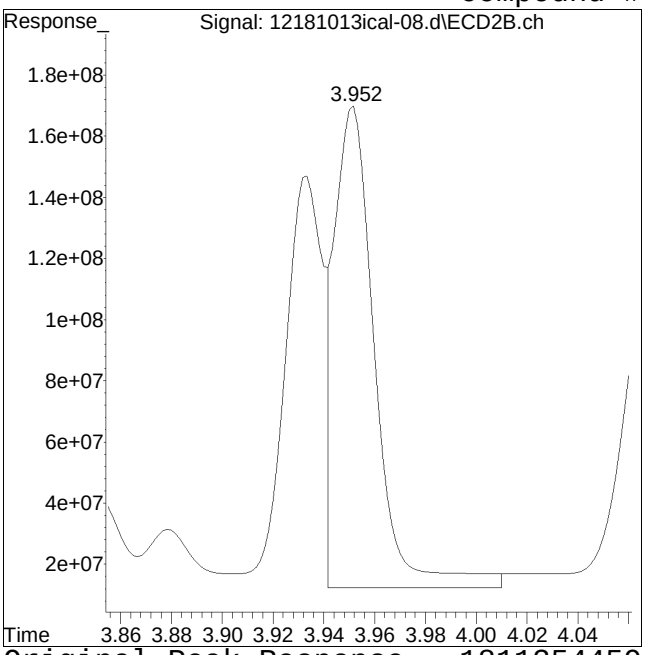
Original Peak Response = 1002848192 Manual Peak Response = 1739835918 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

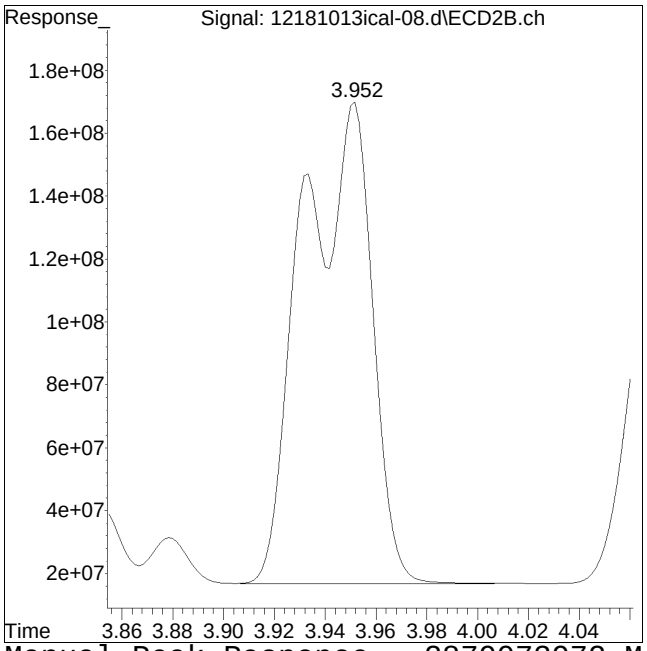
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-08.d
Date Inj'd : 10/13/2018 12:33 pm
Sample : il64268,42e,,8664

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:26 am

Compound #77: 1242-3 #2



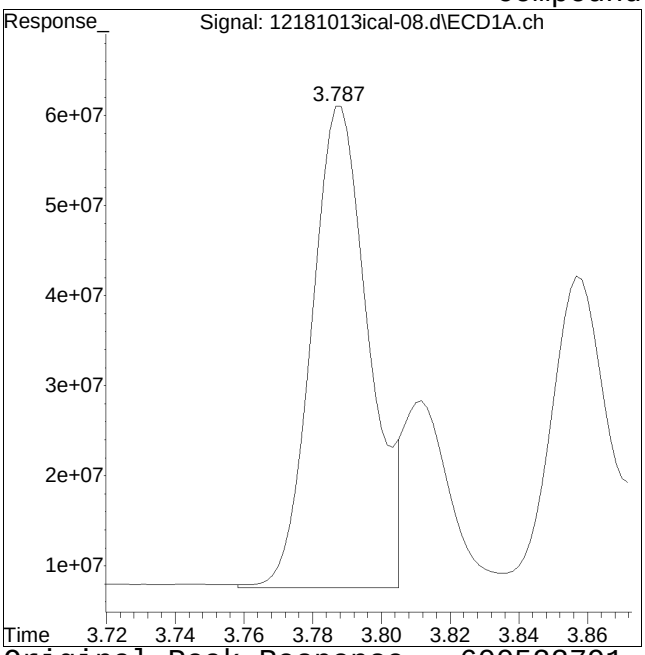


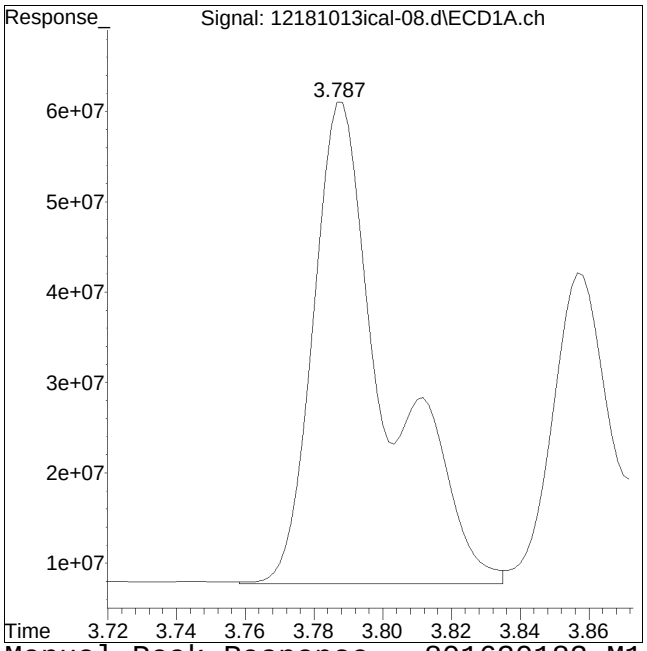
Original Peak Response = 1811354459 Manual Peak Response = 2879073972 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path	: I:\Pest12\181013ical\	QMethod	: P12_pcb_10-13-18_ugL_.m
Data File	: 12181013ical-08.d	Operator	: Pest12:kb
Date Inj'd	: 10/13/2018 12:33 pm	Instrument	: Pest 12
Sample	: il64268,42e,,8664	Quant Date	: 10/16/2018 10:26 am

Compound #27: 1242-4





Original Peak Response = 600522791 Manual Peak Response = 801630183 M1

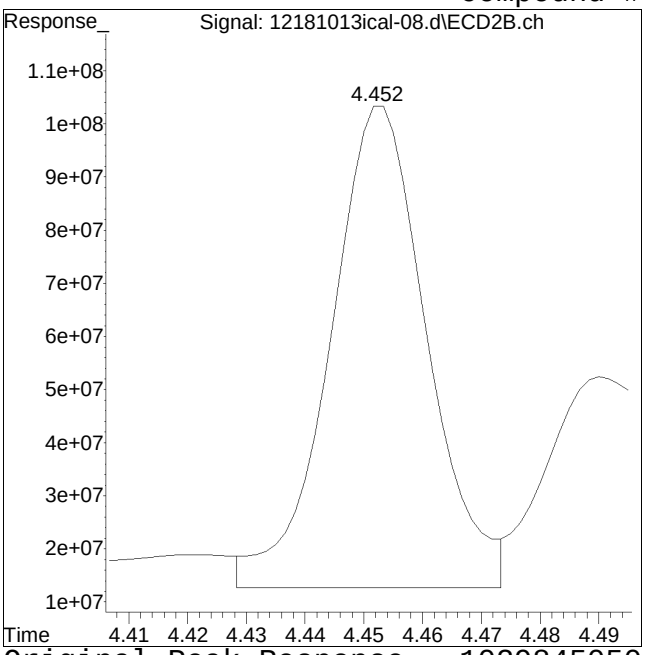
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

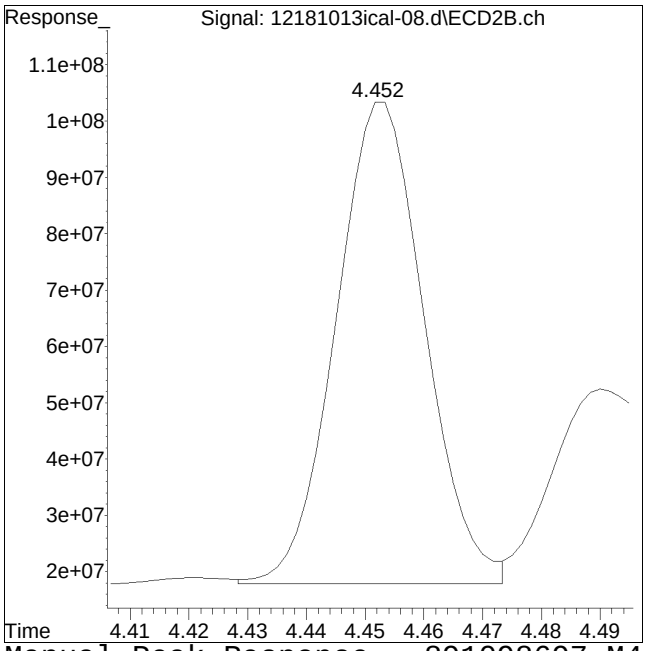
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-08.d
Date Inj'd : 10/13/2018 12:33 pm
Sample : il64268,42e,,8664

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:26 am

Compound #78: 1242-4 #2



Original Peak Response = 1029845050



Manual Peak Response = 891098697 M4

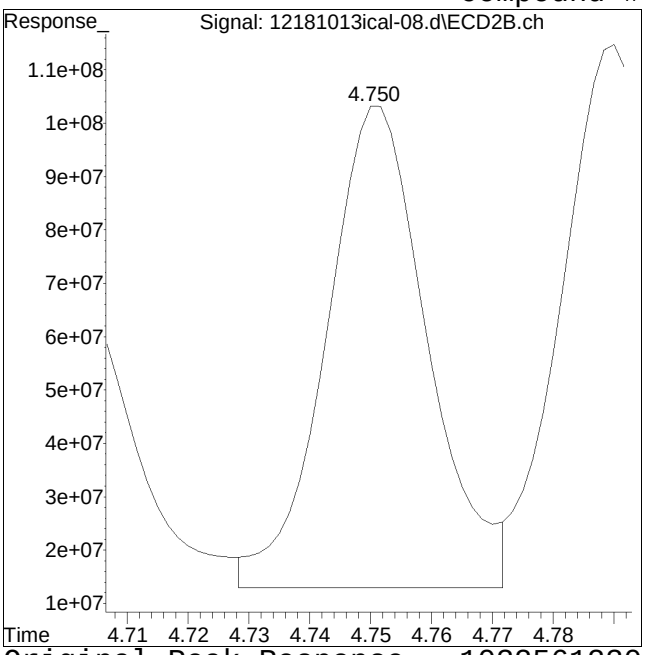
M4 = Poor automated baseline construction.

Manual Integration Report

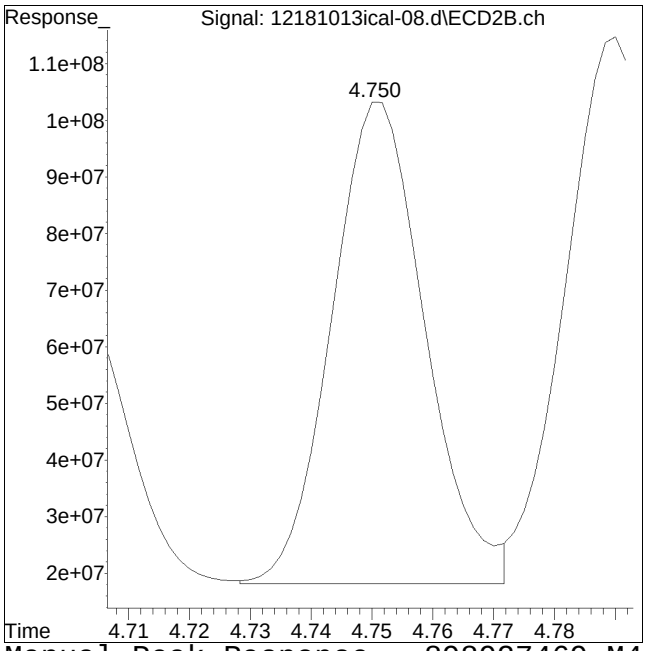
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-08.d
Date Inj'd : 10/13/2018 12:33 pm
Sample : il64268,42e,,8664

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:26 am

Compound #79: 1242-5 #2



Original Peak Response = 1032561230



Manual Peak Response = 898927469 M4

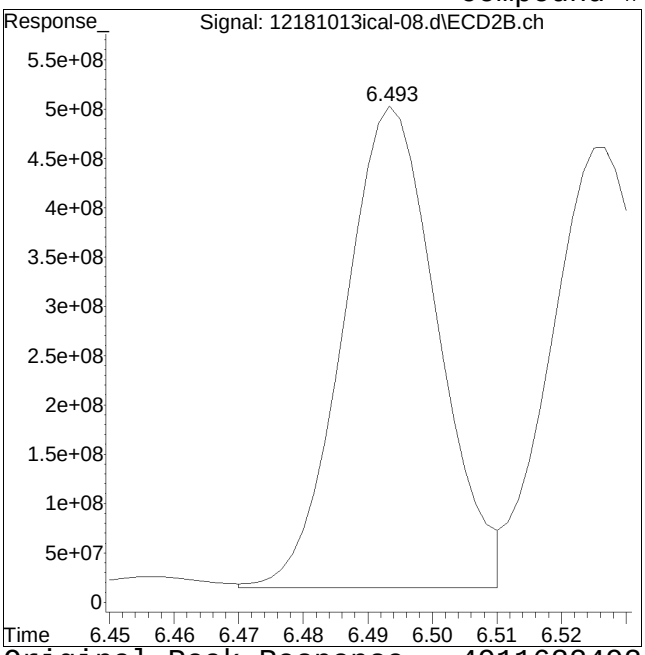
M4 = Poor automated baseline construction.

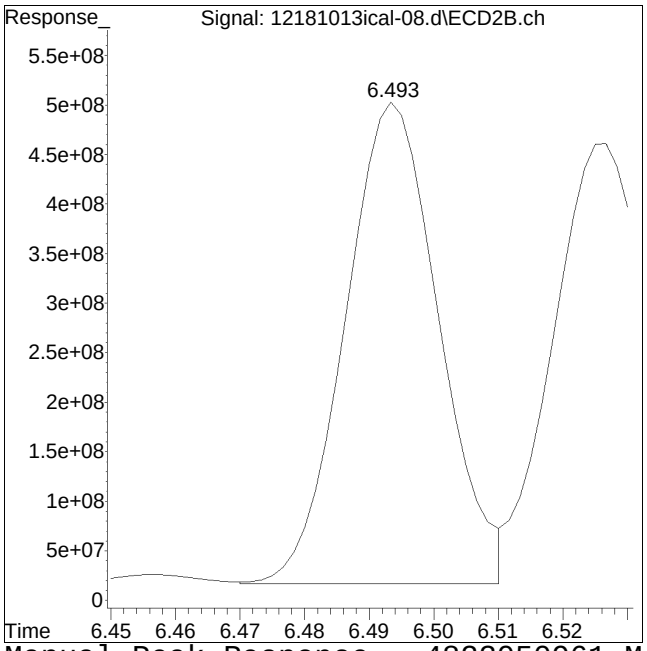
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-08.d
Date Inj'd : 10/13/2018 12:33 pm
Sample : il64268,42e,,8664

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:26 am

Compound #80: 1268-1 #2





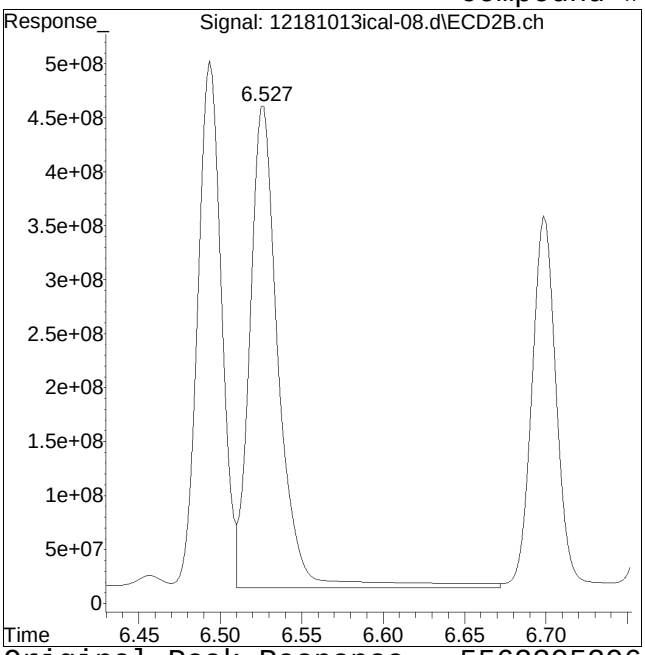
Original Peak Response = 4911622492 Manual Peak Response = 4823050961 M4
M4 = Poor automated baseline construction.

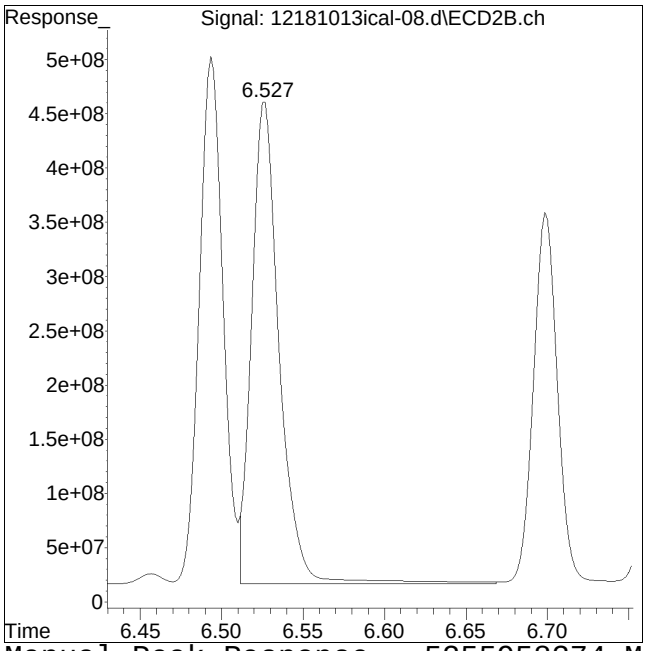
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-08.d
Date Inj'd : 10/13/2018 12:33 pm
Sample : il64268,42e,,8664

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:26 am

Compound #81: 1268-2 #2





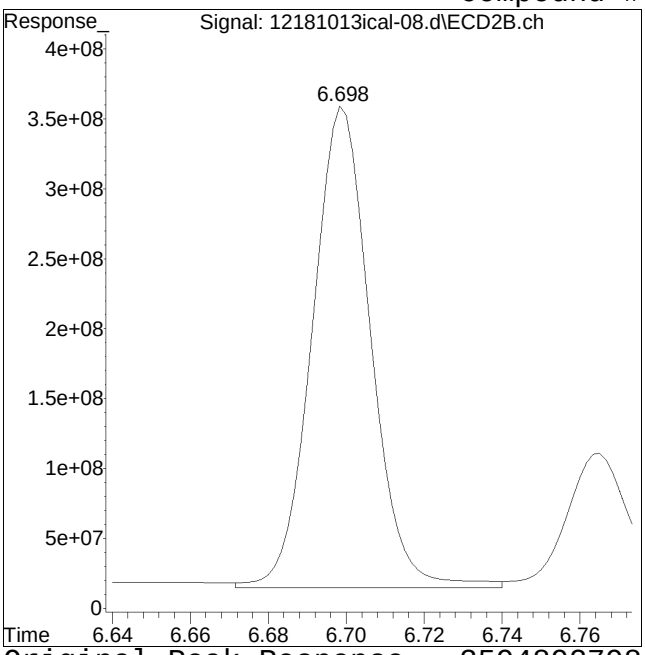
Original Peak Response = 5562395296 Manual Peak Response = 5255958374 M4
M4 = Poor automated baseline construction.

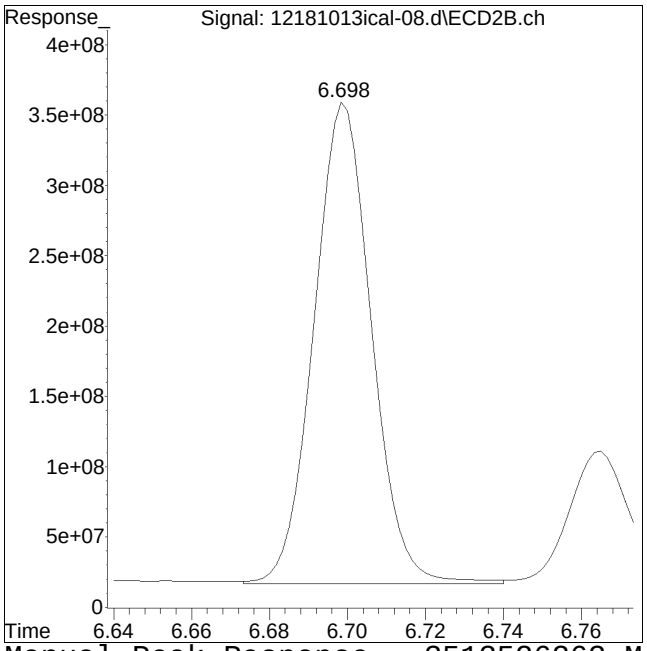
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-08.d
Date Inj'd : 10/13/2018 12:33 pm
Sample : il64268,42e,,8664

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:26 am

Compound #82: 1268-3 #2





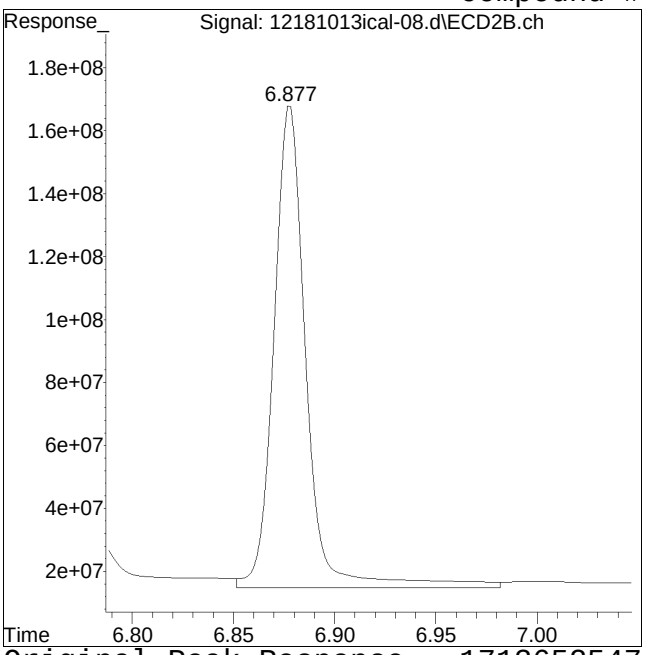
Original Peak Response = 3594892798 Manual Peak Response = 3513526263 M4
M4 = Poor automated baseline construction.

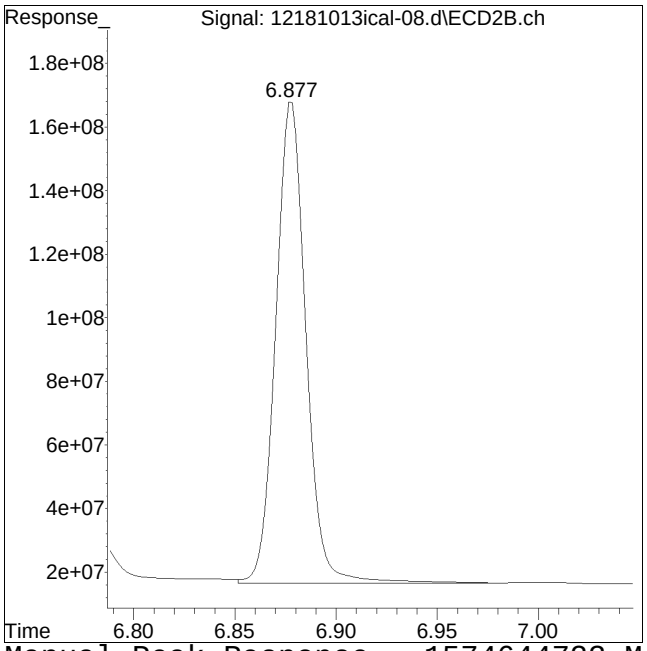
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-08.d
Date Inj'd : 10/13/2018 12:33 pm
Sample : il64268,42e,,8664

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:26 am

Compound #83: 1268-4 #2





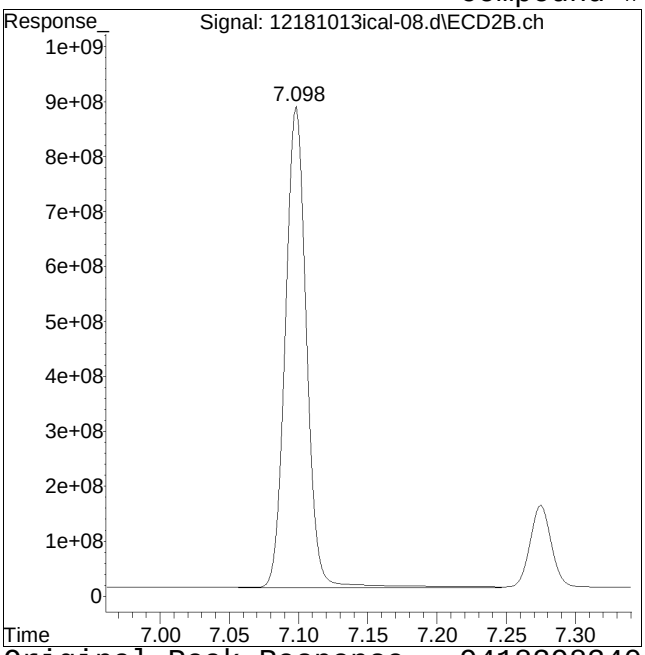
Original Peak Response = 1713652547 Manual Peak Response = 1574644723 M4
M4 = Poor automated baseline construction.

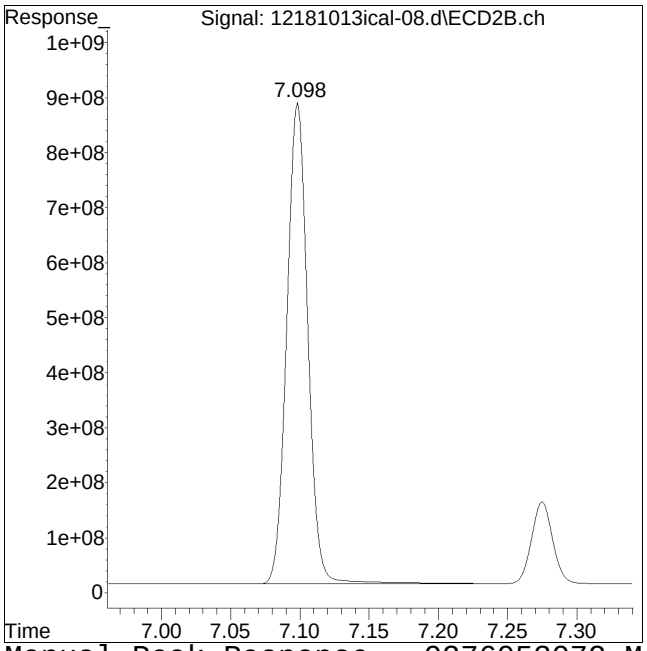
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-08.d
Date Inj'd : 10/13/2018 12:33 pm
Sample : il64268,42e,,8664

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:26 am

Compound #84: 1268-5 #2





Original Peak Response = 9418398340 Manual Peak Response = 9276053072 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-09.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 12:45 pm
Operator : Pest12:kb
Sample : il13262,42e,,8734
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 22 12:46:57 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Mon Oct 22 12:46:40 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
13) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
22) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
39) i	3262_1br2nb	2.069	2.224	781.0E6	1173.2E6	250.000M4	250.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-2			0	0	N.D.	N.D.
	Average 1260-2					0.000	0.000
14) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-09.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 12:45 pm
Operator : Pest12:kb
Sample : il13262,42e,,8734
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 22 12:46:57 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Mon Oct 22 12:46:40 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
17) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
18) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
23) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
24) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
28) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
29) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
34) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-09.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 12:45 pm
Operator : Pest12:kb
Sample : il13262,42e,,8734
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 22 12:46:57 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Mon Oct 22 12:46:40 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1248-1					0.000	0.000
40) l5	1232-1	2.779	3.231	7411025	11739893	62.741M4	114.018M4
41) l5	1232-2	3.023	3.558	7061597	11276652	70.033M4	108.566M4
42) l5	1232-3	3.366	3.952	14613963	24593049	77.731M4	117.851M1
43) l5	1232-4	3.467	4.066	5206446	9031539	72.733M4	115.468M4
44) l5	1232-5	4.126	4.751	4081940	6269736	81.212M4	109.953M4
Sum	1232-1			38374971	62910869	364.450	565.857 D
Average	1232-1					72.890	113.171 D
45) l8	1262-1	4.951	5.564	19567147	20910293	122.597M4	105.873M4
46) l8	1262-2	5.239	5.882	22613471	29097004	118.154M4	109.253M4
47) l8	1262-3	5.417	6.090	20207407	26330541	118.778M4	113.162M4
48) l8	1262-4	5.635	6.250	40289848	53176254	118.822	116.428M4
49) l8	1262-5	5.853	6.494	14733497	37887610	115.225M3	118.266M4
Sum	1262-1			117.4E6	167.4E6	593.575	562.982
Average	1262-1					118.715	112.596

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			117.4E6	167.4E6	593.575	562.982
Average	1262-1					118.715	112.596

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-09.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 12:45 pm
Operator : Pest12:kb
Sample : il13262,42e,,8734
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 22 12:46:57 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Mon Oct 22 12:46:40 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

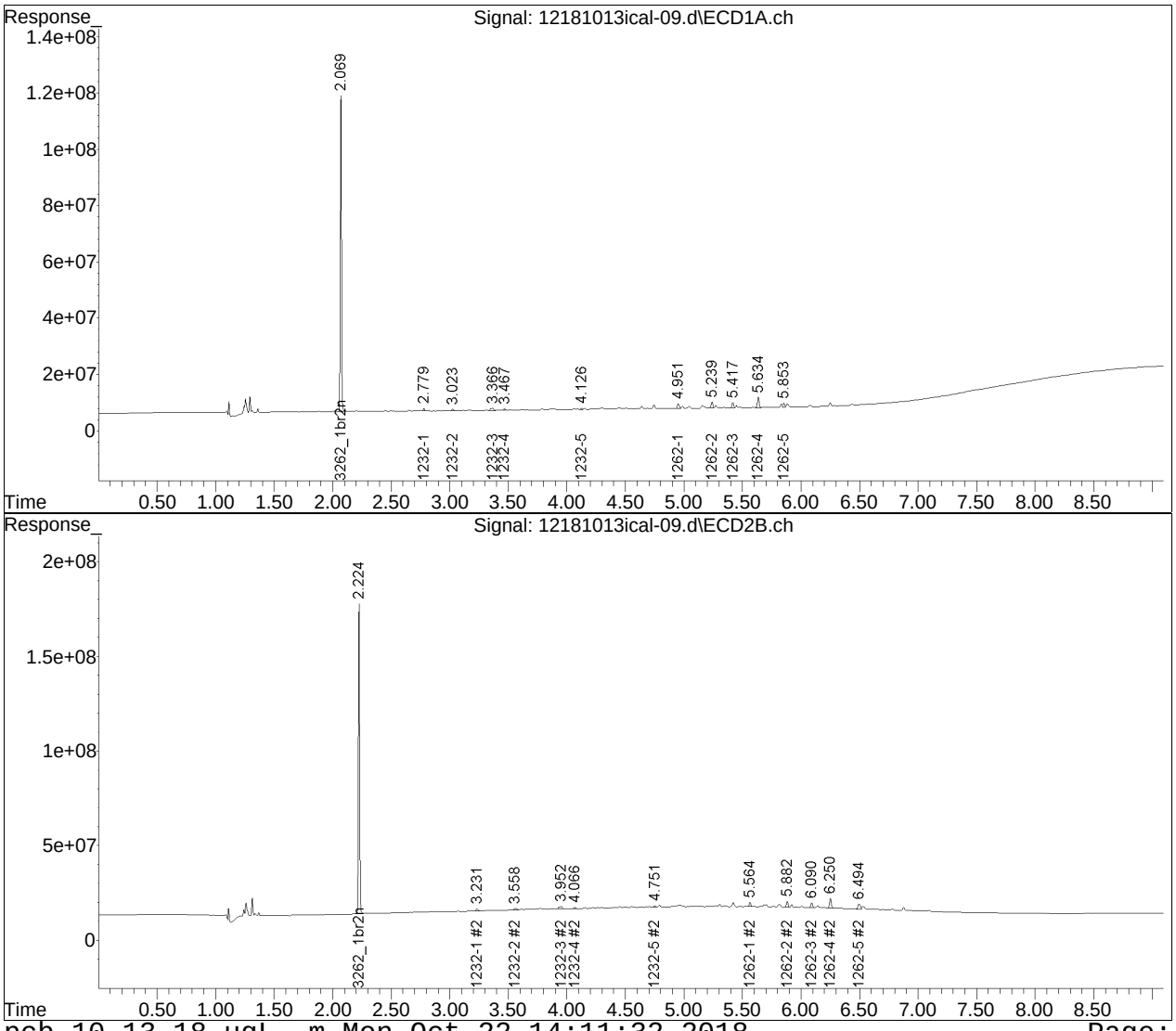
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-09.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 12:45 pm
Operator : Pest12:kb
Sample : il13262,42e,,8734
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 22 12:46:57 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Mon Oct 22 12:46:40 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

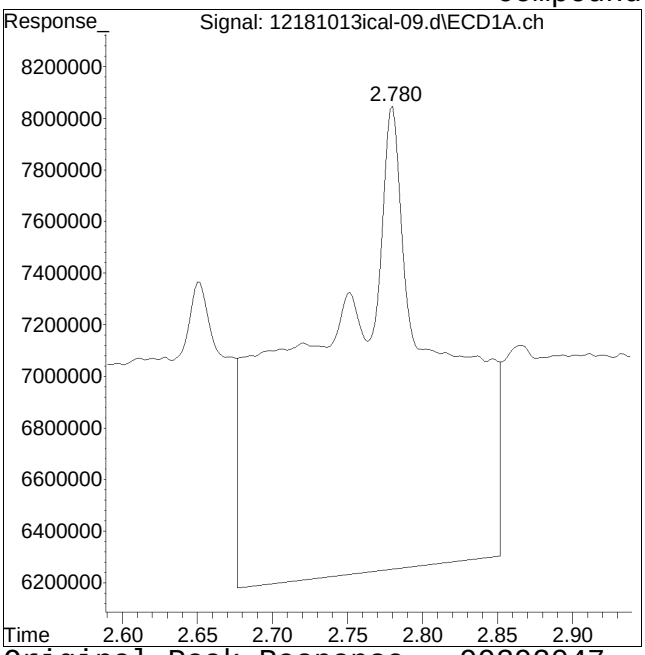


Manual Integration Report

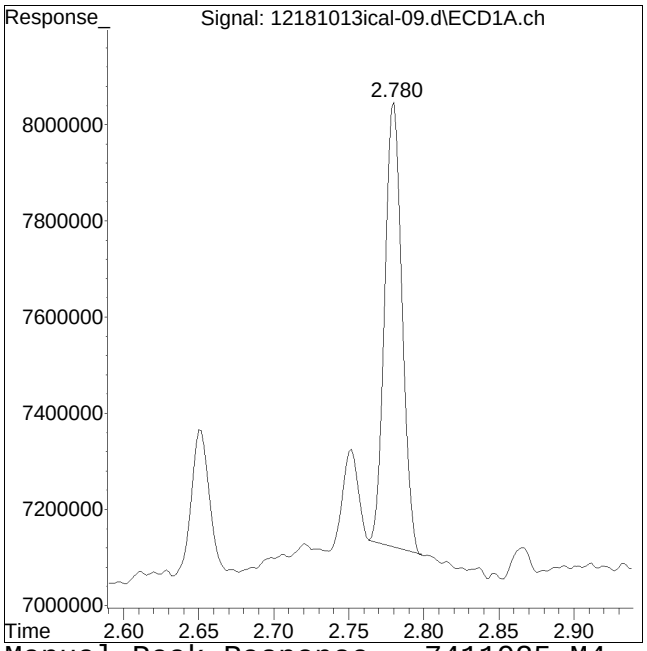
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-09.d
Date Inj'd : 10/13/2018 12:45 pm
Sample : il13262,42e,,8734

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/22/2018 12:46 pm

Compound #40: 1232-1



Original Peak Response = 99392047



Manual Peak Response = 7411025 M4

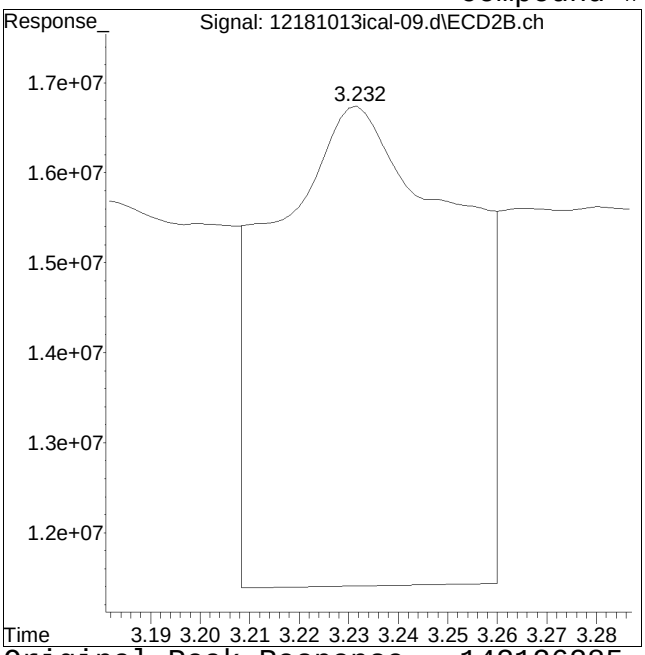
M4 = Poor automated baseline construction.

Manual Integration Report

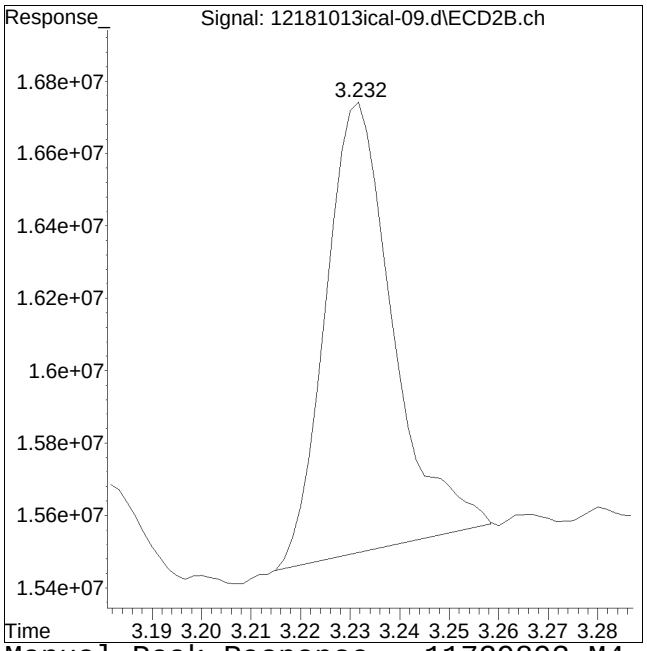
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-09.d
Date Inj'd : 10/13/2018 12:45 pm
Sample : il13262,42e,,8734

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/22/2018 12:46 pm

Compound #90: 1232-1 #2



Original Peak Response = 142126285



Manual Peak Response = 11739893 M4

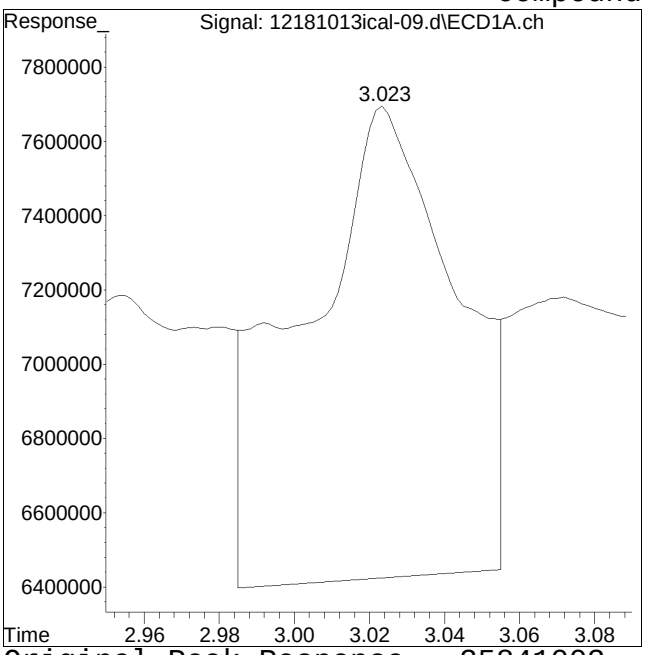
M4 = Poor automated baseline construction.

Manual Integration Report

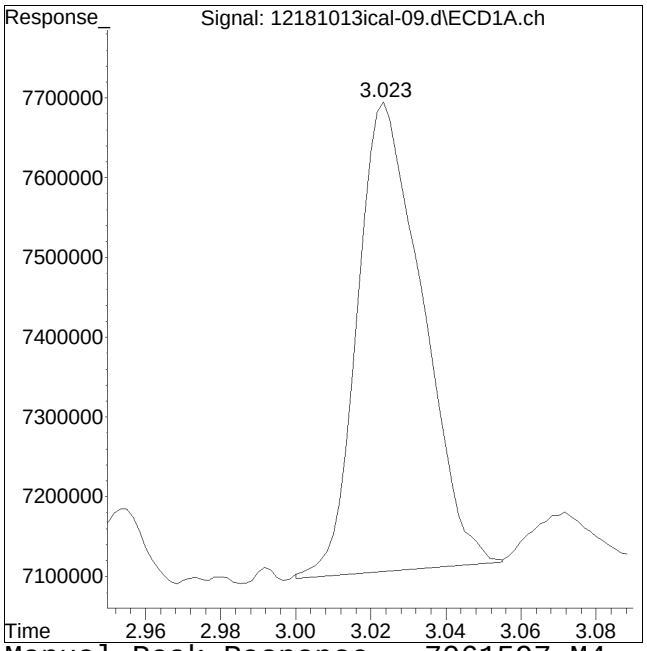
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-09.d
Date Inj'd : 10/13/2018 12:45 pm
Sample : il13262,42e,,8734

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/22/2018 12:46 pm

Compound #41: 1232-2



Original Peak Response = 35841003



Manual Peak Response = 7061597 M4

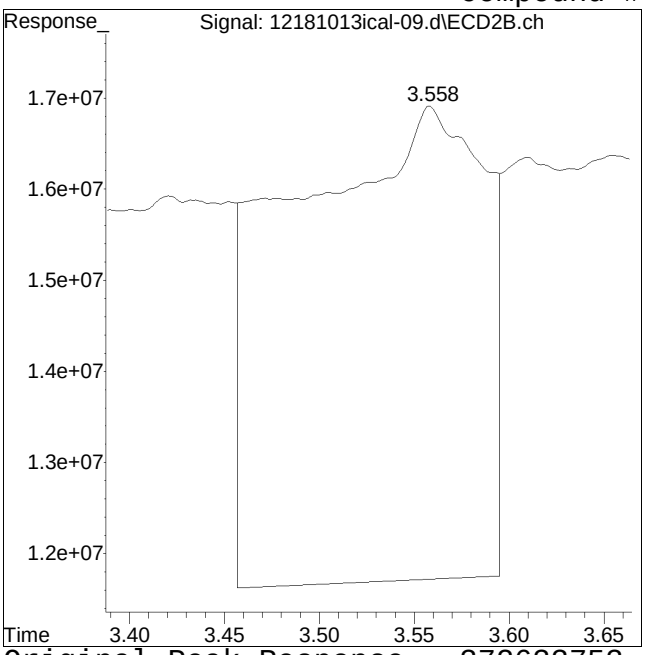
M4 = Poor automated baseline construction.

Manual Integration Report

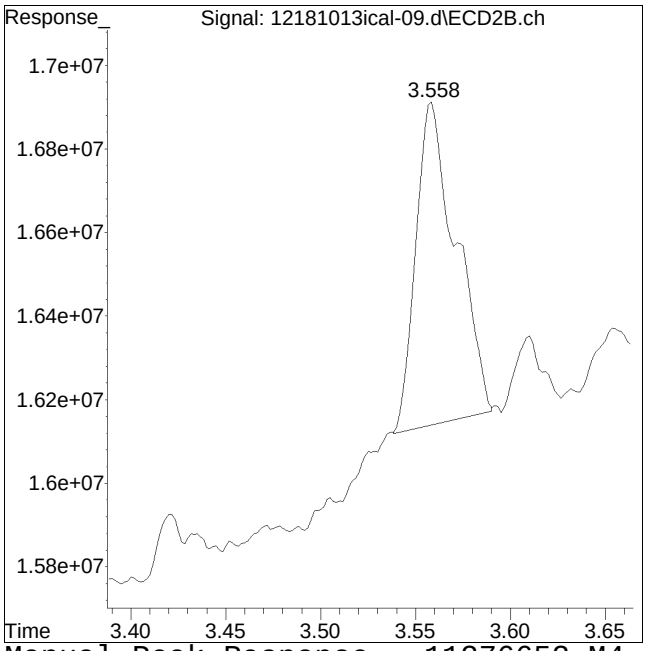
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-09.d
Date Inj'd : 10/13/2018 12:45 pm
Sample : il13262,42e,,8734

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/22/2018 12:46 pm

Compound #91: 1232-2 #2



Original Peak Response = 372633753



Manual Peak Response = 11276652 M4

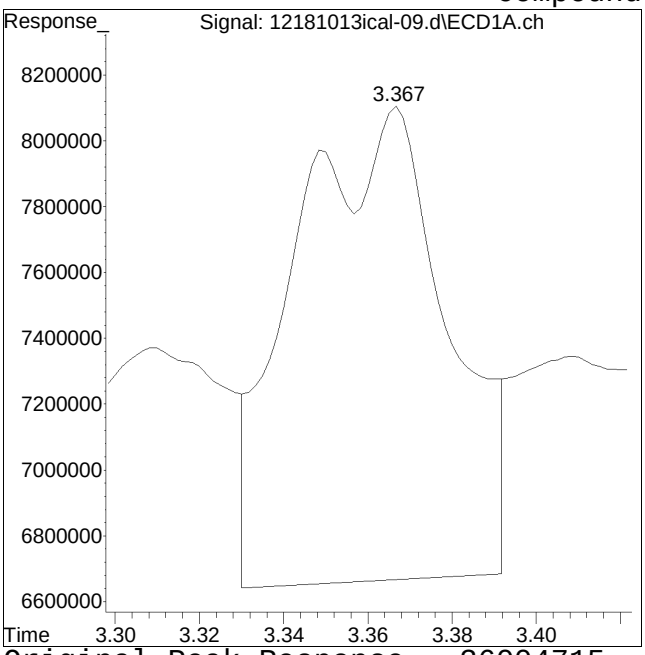
M4 = Poor automated baseline construction.

Manual Integration Report

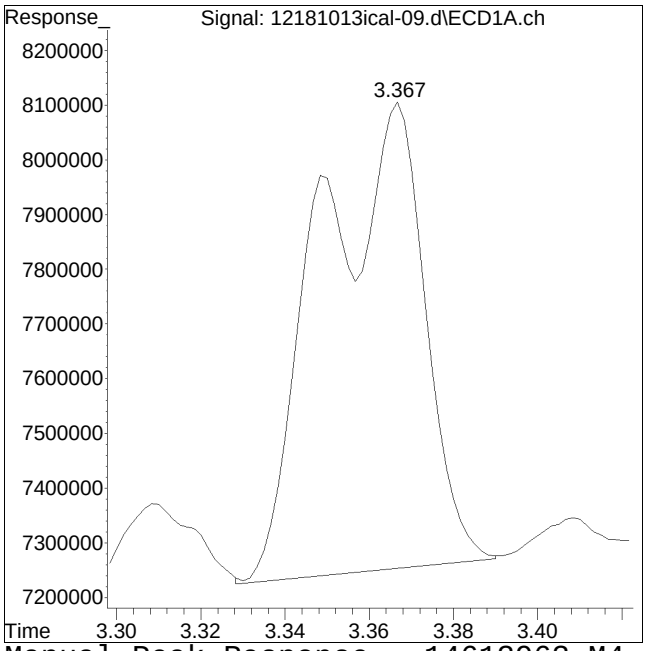
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-09.d
Date Inj'd : 10/13/2018 12:45 pm
Sample : il13262,42e,,8734

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/22/2018 12:46 pm

Compound #42: 1232-3



Original Peak Response = 36004715



Manual Peak Response = 14613963 M4

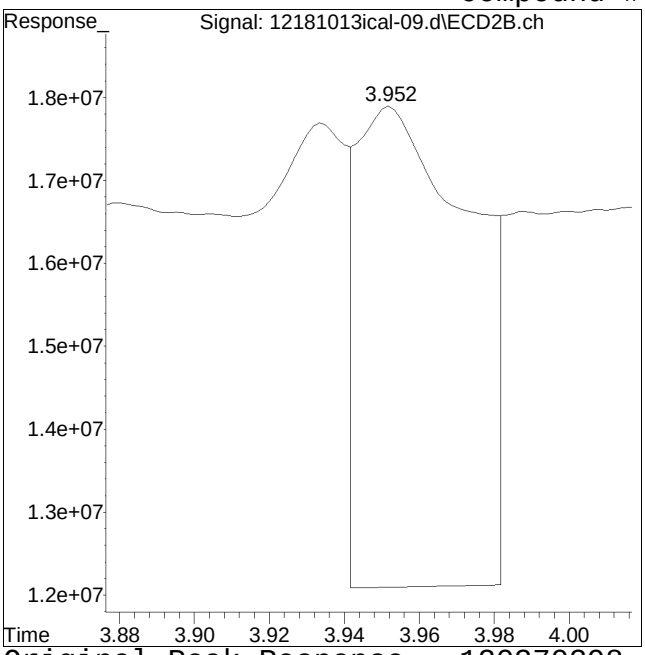
M4 = Poor automated baseline construction.

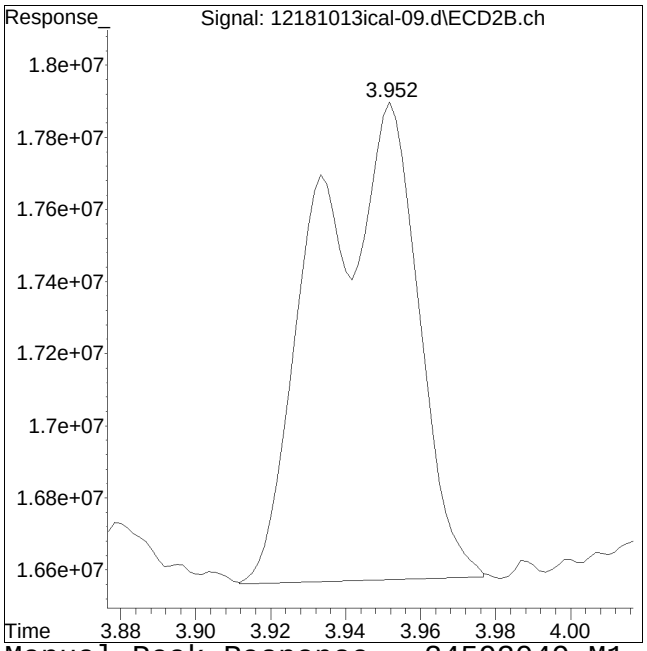
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-09.d
Date Inj'd : 10/13/2018 12:45 pm
Sample : il13262,42e,,8734

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/22/2018 12:46 pm

Compound #92: 1232-3 #2





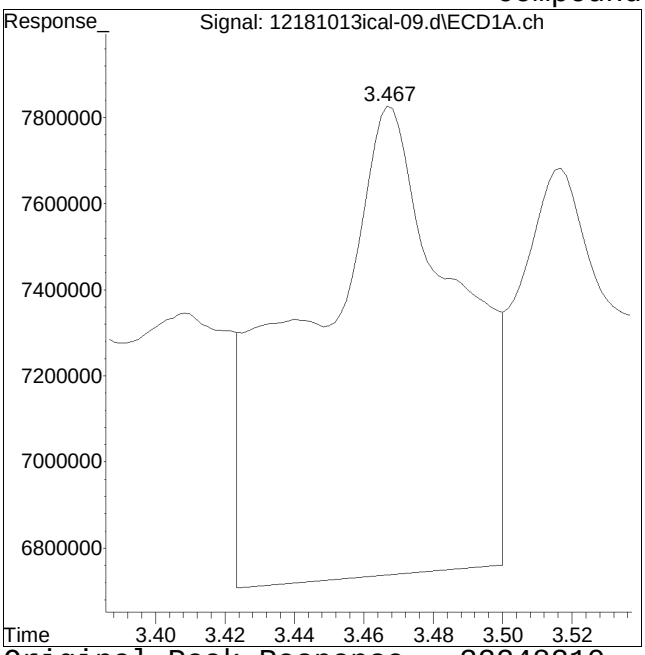
Original Peak Response = 120370398 Manual Peak Response = 24593049 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

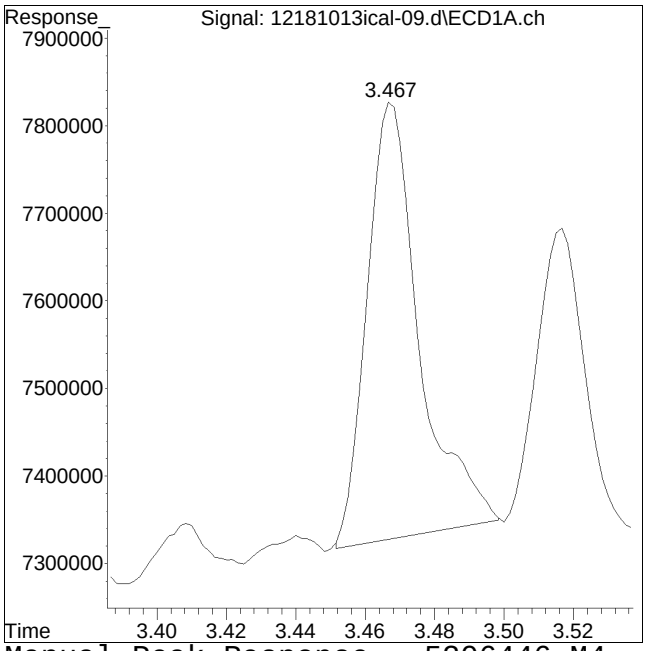
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-09.d
Date Inj'd : 10/13/2018 12:45 pm
Sample : il13262,42e,,8734

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/22/2018 12:46 pm

Compound #43: 1232-4



Original Peak Response = 32248210



Manual Peak Response = 5206446 M4

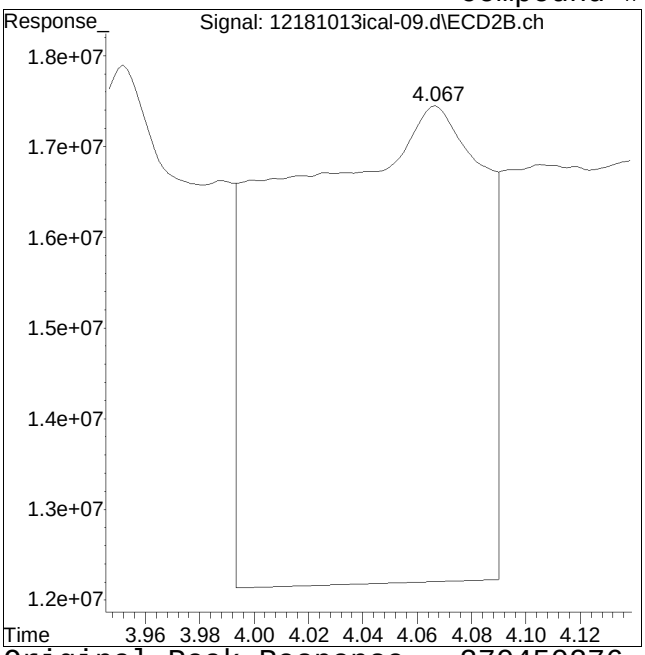
M4 = Poor automated baseline construction.

Manual Integration Report

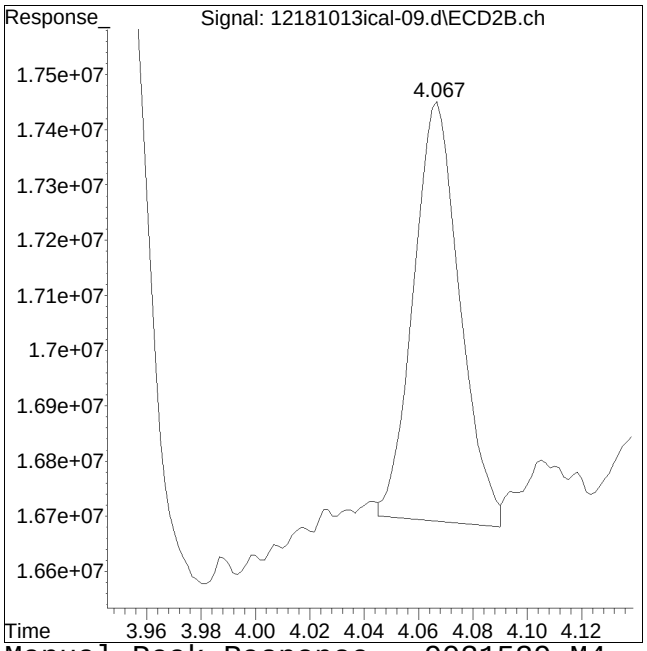
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-09.d
Date Inj'd : 10/13/2018 12:45 pm
Sample : il13262,42e,,8734

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/22/2018 12:46 pm

Compound #93: 1232-4 #2



Original Peak Response = 270450276



Manual Peak Response = 9031539 M4

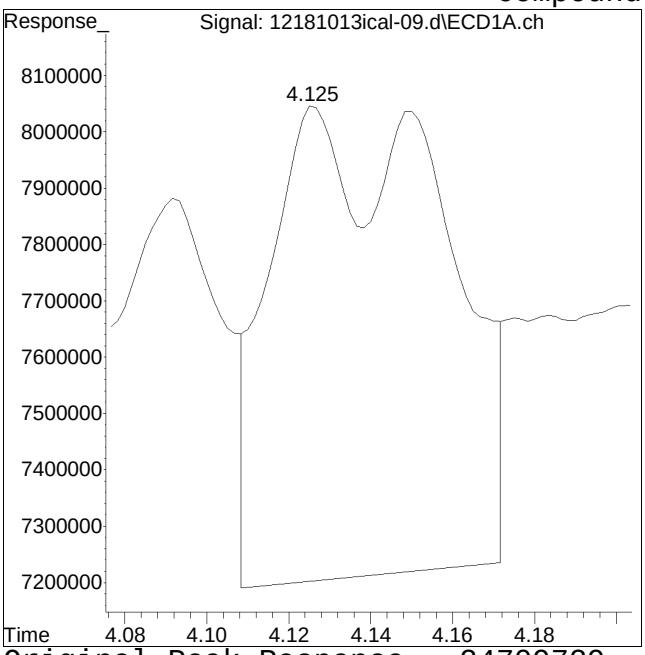
M4 = Poor automated baseline construction.

Manual Integration Report

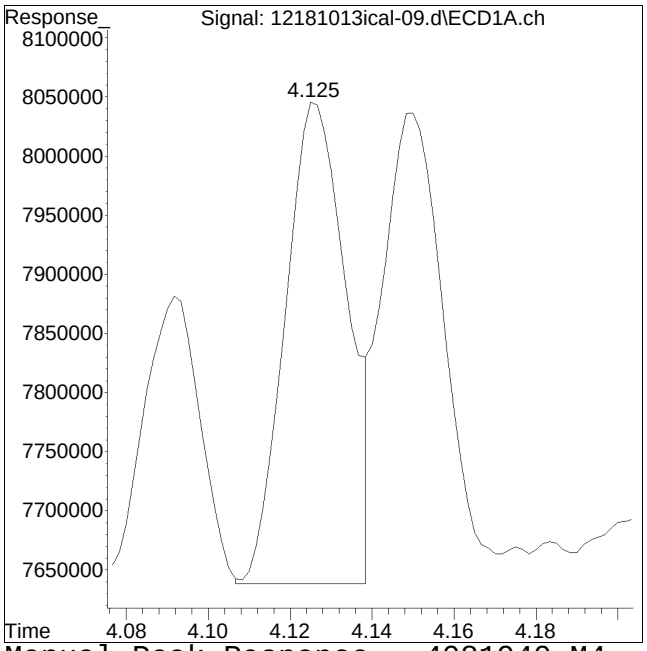
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-09.d
Date Inj'd : 10/13/2018 12:45 pm
Sample : il13262,42e,,8734

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/22/2018 12:46 pm

Compound #44: 1232-5



Original Peak Response = 24709729



Manual Peak Response = 4081940 M4

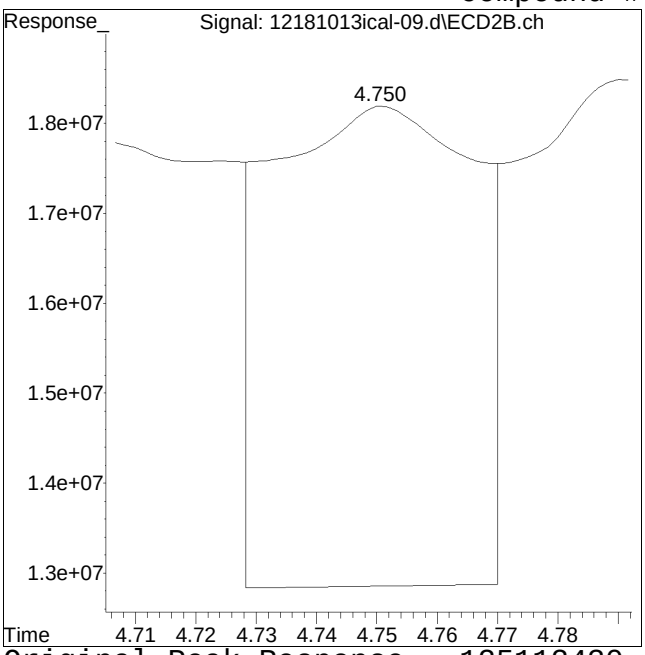
M4 = Poor automated baseline construction.

Manual Integration Report

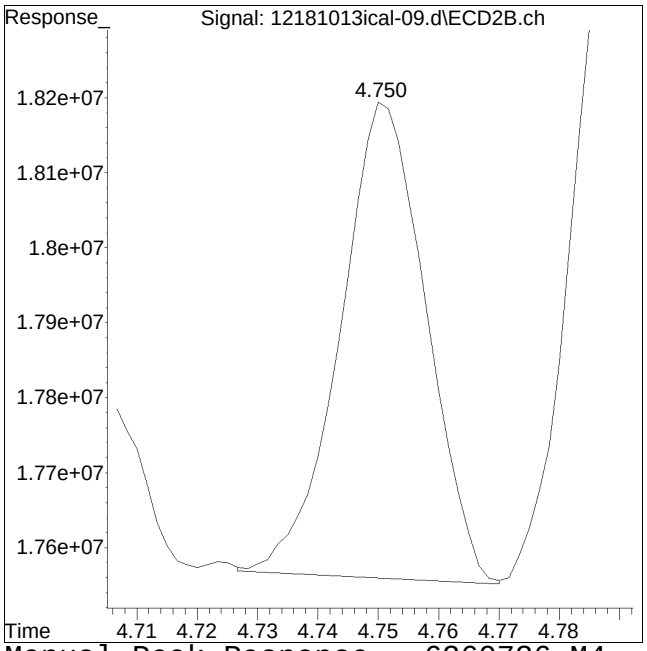
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-09.d
Date Inj'd : 10/13/2018 12:45 pm
Sample : il13262,42e,,8734

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/22/2018 12:46 pm

Compound #94: 1232-5 #2



Original Peak Response = 125112430



Manual Peak Response = 6269736 M4

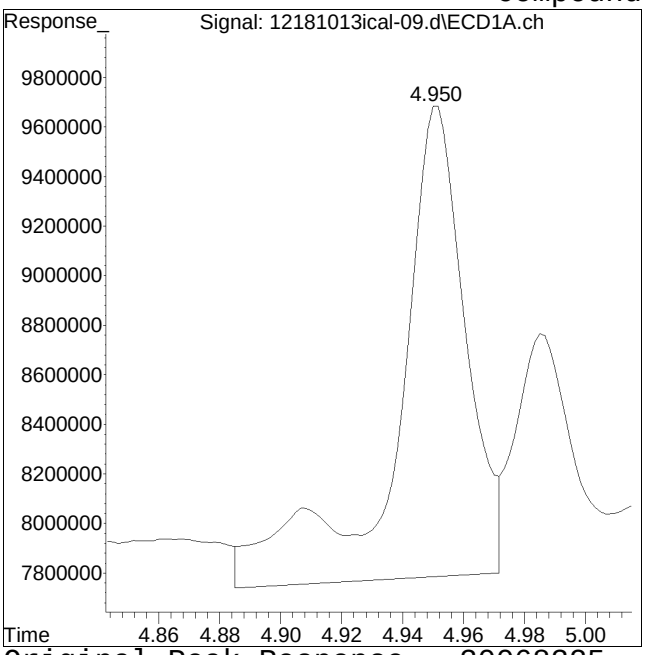
M4 = Poor automated baseline construction.

Manual Integration Report

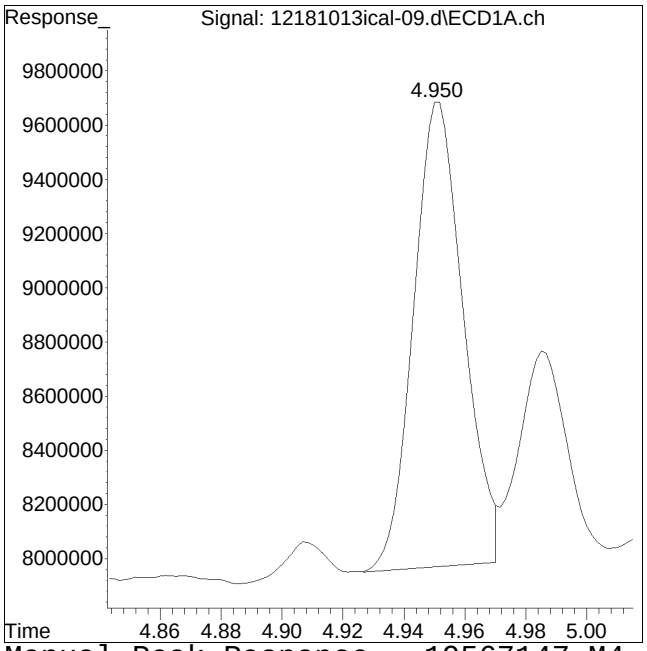
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-09.d
Date Inj'd : 10/13/2018 12:45 pm
Sample : il13262,42e,,8734

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/22/2018 12:46 pm

Compound #45: 1262-1



Original Peak Response = 30068325



Manual Peak Response = 19567147 M4

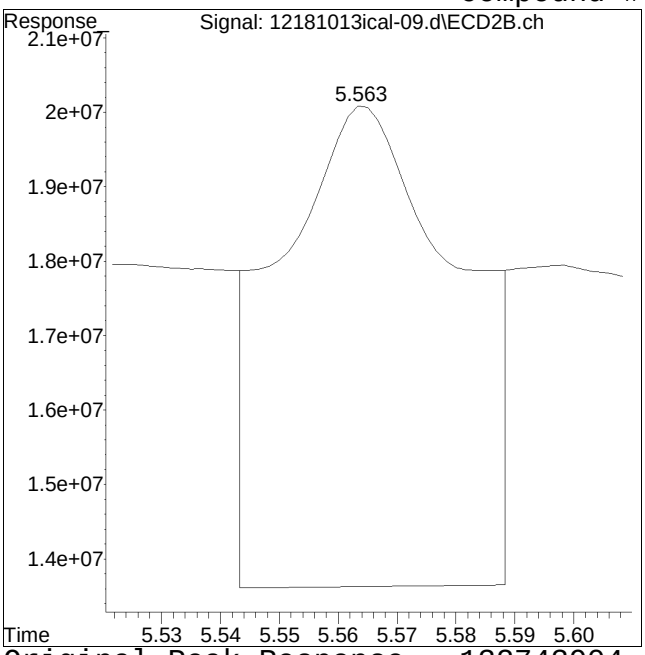
M4 = Poor automated baseline construction.

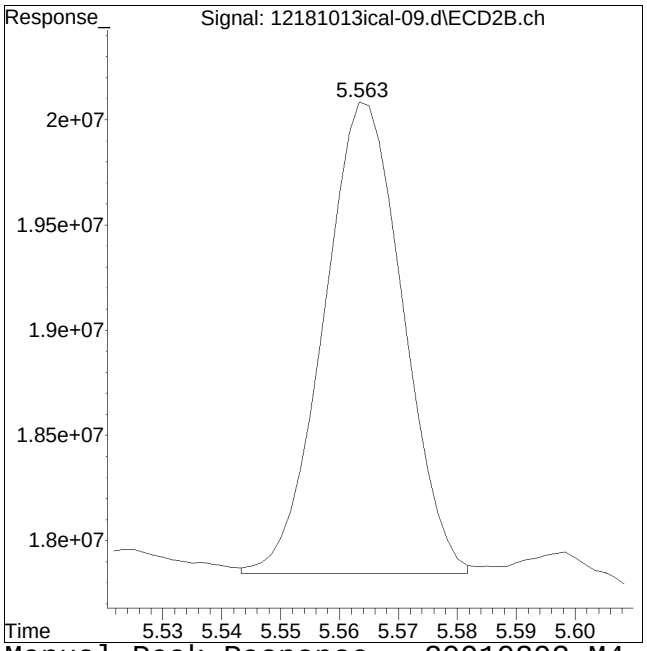
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-09.d
Date Inj'd : 10/13/2018 12:45 pm
Sample : il13262,42e,,8734

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/22/2018 12:46 pm

Compound #95: 1262-1 #2





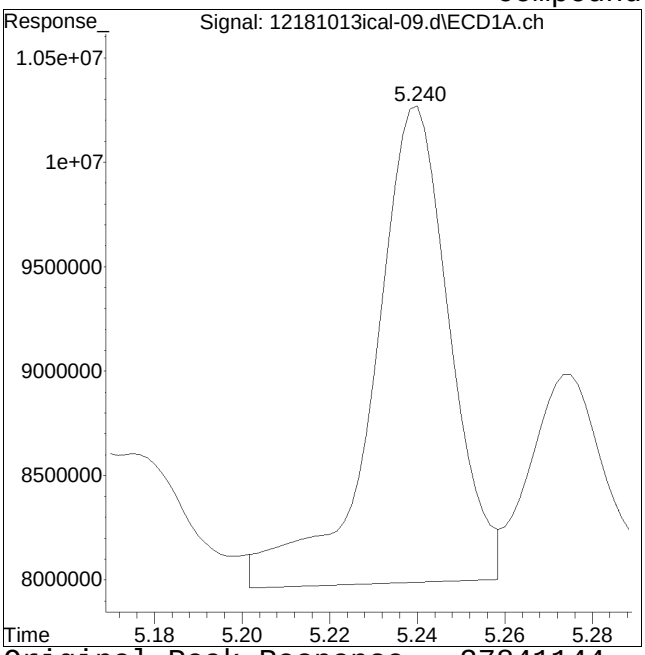
Original Peak Response = 132743904 Manual Peak Response = 20910293 M4
M4 = Poor automated baseline construction.

Manual Integration Report

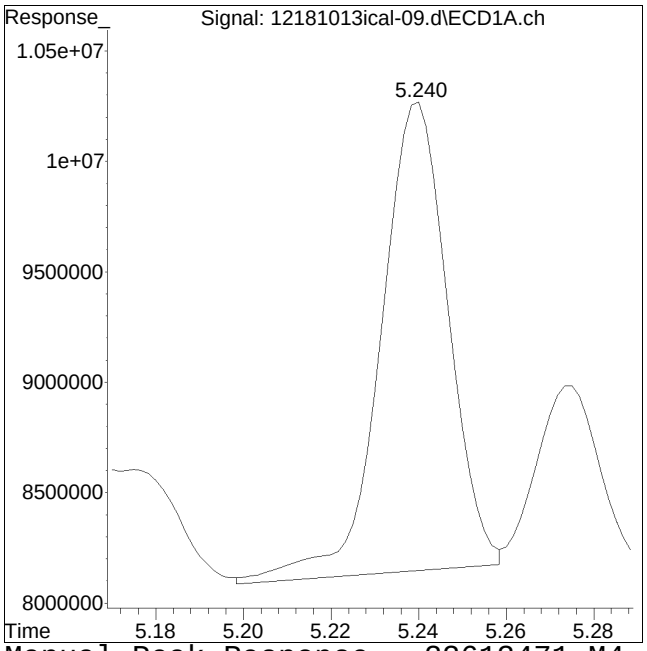
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-09.d
Date Inj'd : 10/13/2018 12:45 pm
Sample : il13262,42e,,8734

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/22/2018 12:46 pm

Compound #46: 1262-2



Original Peak Response = 27841144



Manual Peak Response = 22613471 M4

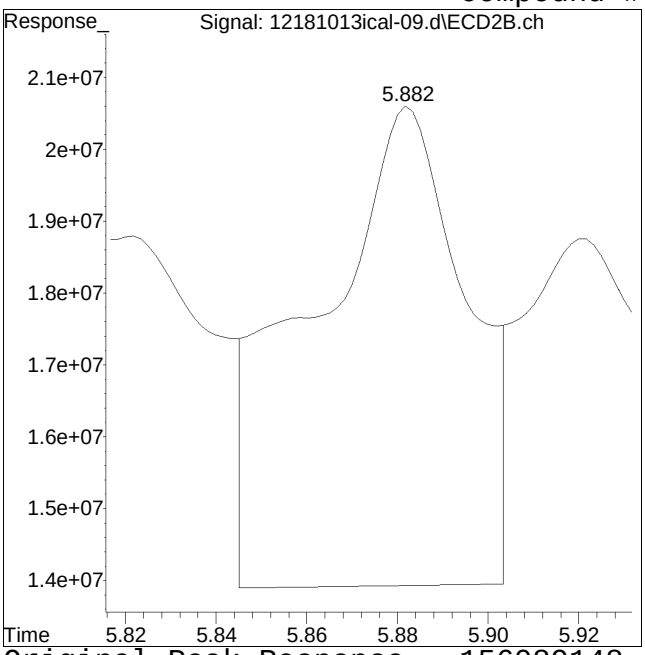
M4 = Poor automated baseline construction.

Manual Integration Report

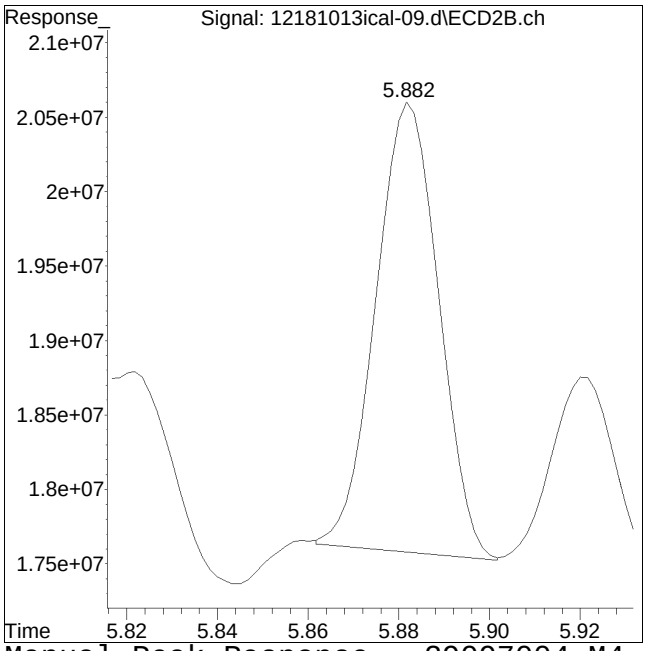
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-09.d
Date Inj'd : 10/13/2018 12:45 pm
Sample : il13262,42e,,8734

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/22/2018 12:46 pm

Compound #96: 1262-2 #2



Original Peak Response = 156089148



Manual Peak Response = 29097004 M4

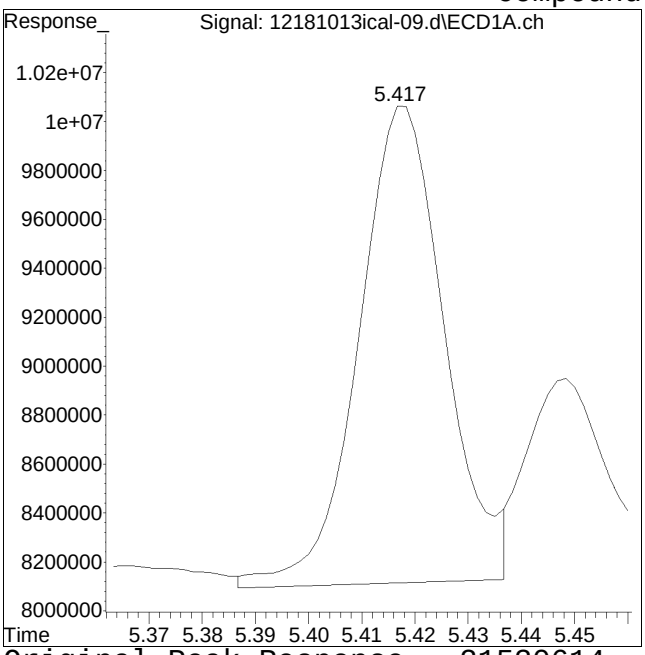
M4 = Poor automated baseline construction.

Manual Integration Report

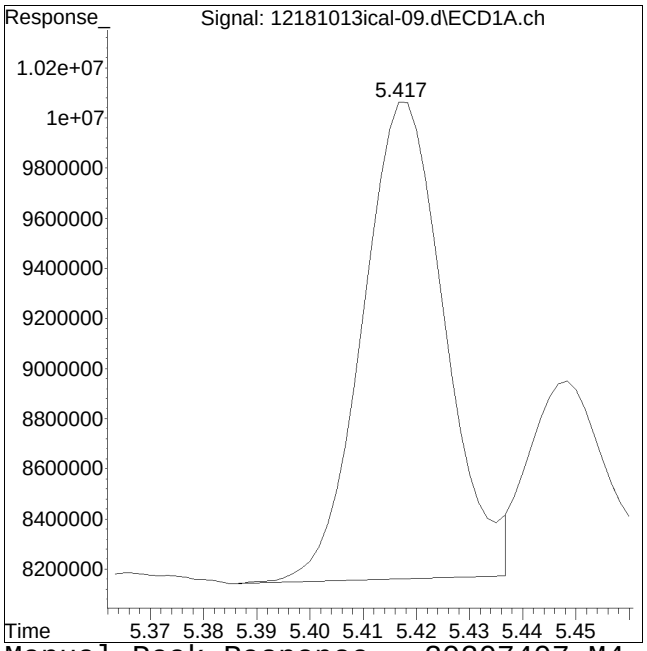
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-09.d
Date Inj'd : 10/13/2018 12:45 pm
Sample : il13262,42e,,8734

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/22/2018 12:46 pm

Compound #47: 1262-3



Original Peak Response = 21530614



Manual Peak Response = 20207407 M4

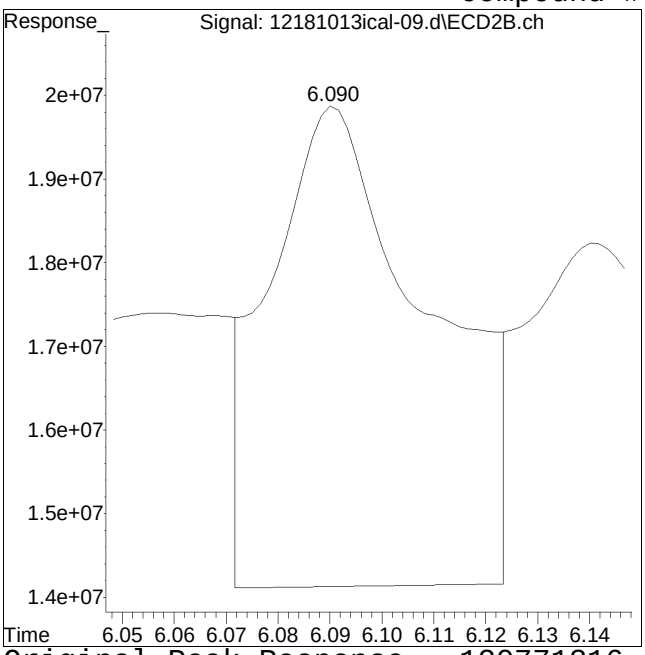
M4 = Poor automated baseline construction.

Manual Integration Report

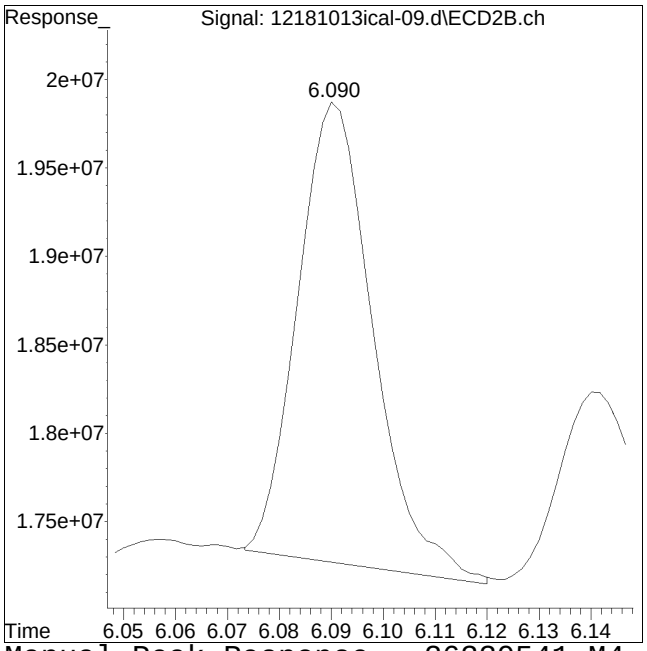
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-09.d
Date Inj'd : 10/13/2018 12:45 pm
Sample : il13262,42e,,8734

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/22/2018 12:46 pm

Compound #97: 1262-3 #2



Original Peak Response = 120771316



Manual Peak Response = 26330541 M4

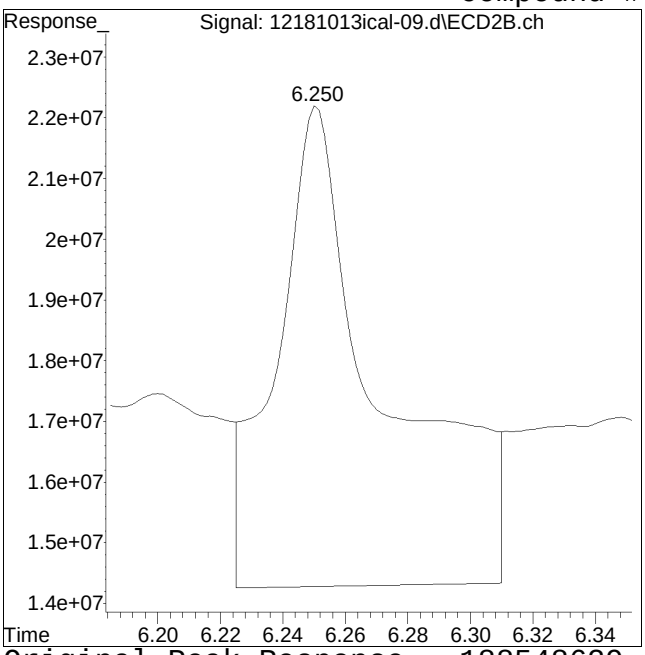
M4 = Poor automated baseline construction.

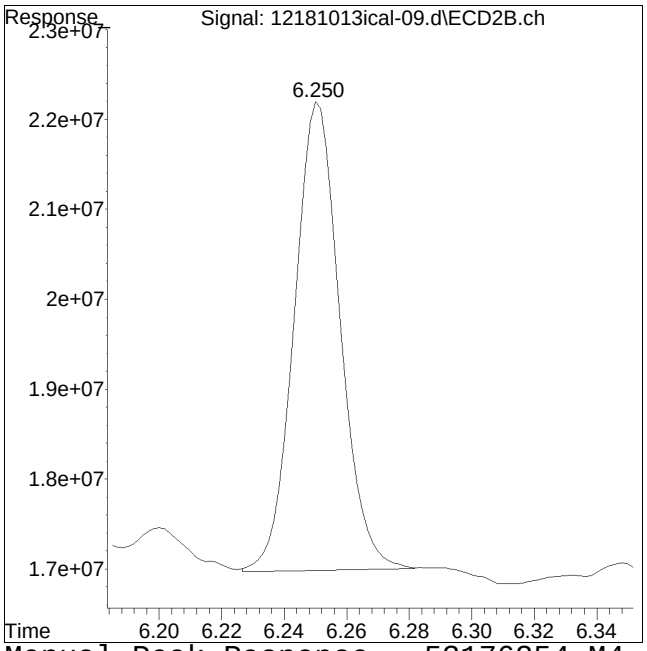
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-09.d
Date Inj'd : 10/13/2018 12:45 pm
Sample : il13262,42e,,8734

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/22/2018 12:46 pm

Compound #98: 1262-4 #2





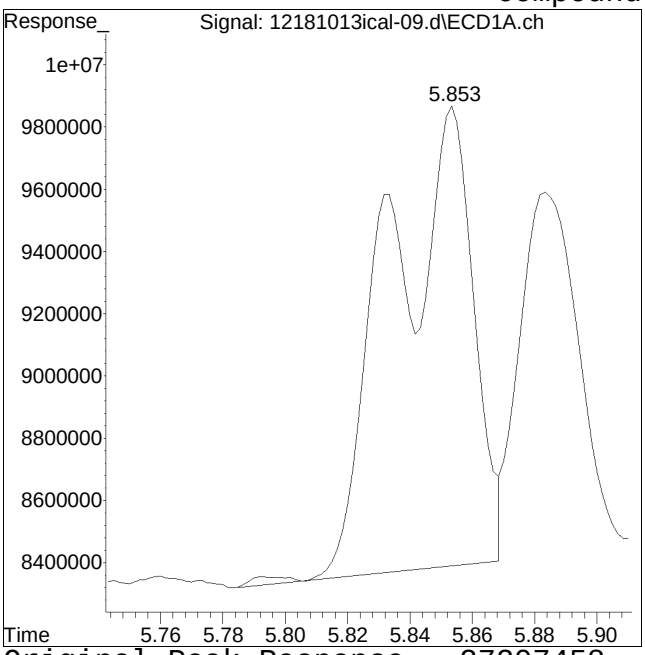
Original Peak Response = 188548629 Manual Peak Response = 53176254 M4
M4 = Poor automated baseline construction.

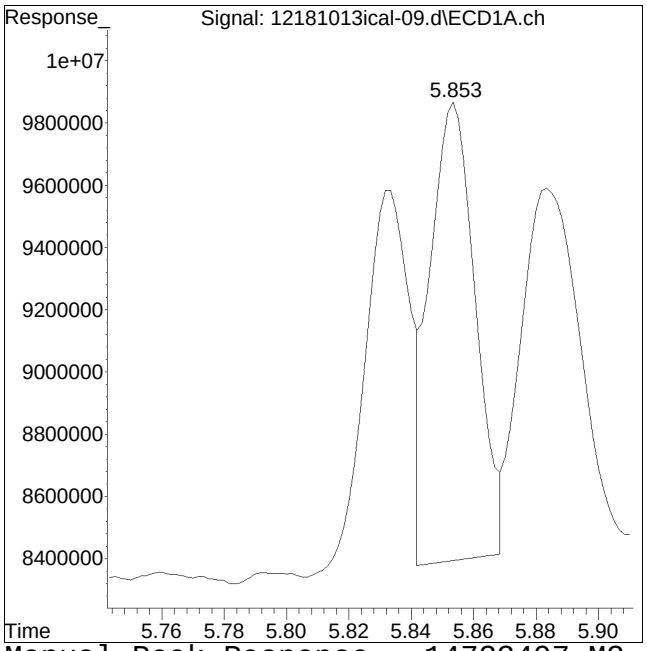
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-09.d
Date Inj'd : 10/13/2018 12:45 pm
Sample : il13262,42e,,8734

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/22/2018 12:46 pm

Compound #49: 1262-5





Original Peak Response = 27207458 Manual Peak Response = 14733497 M3

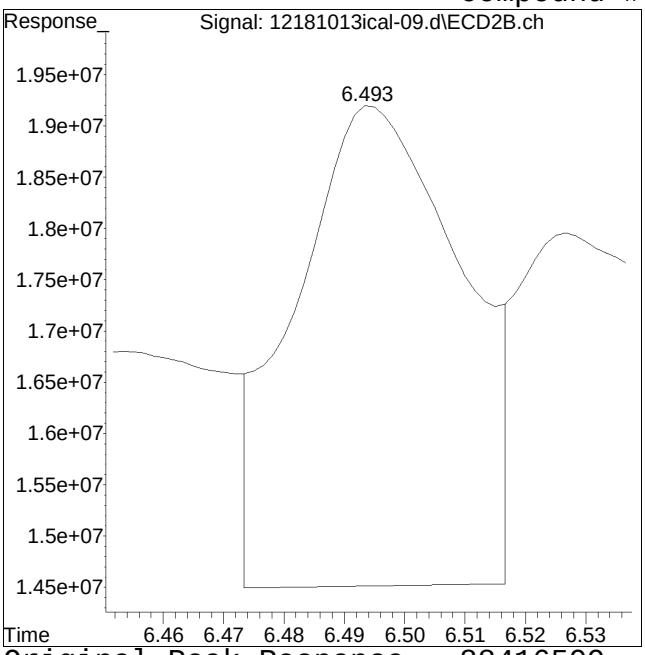
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

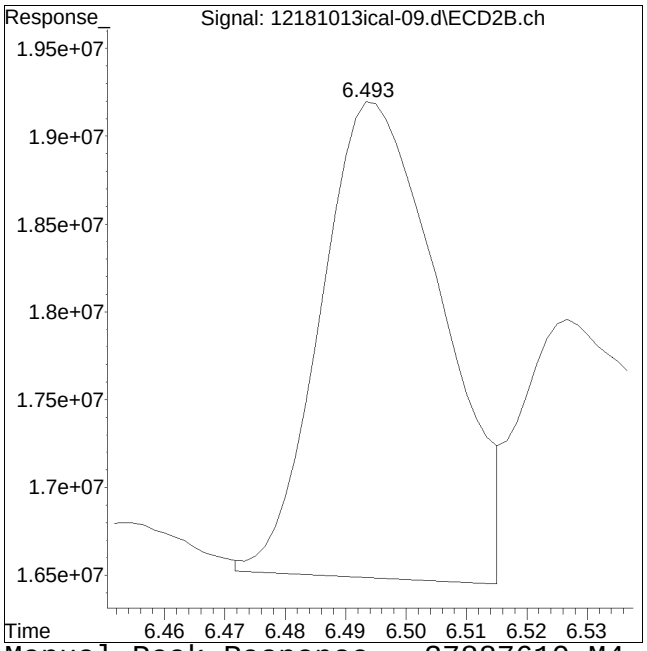
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-09.d
Date Inj'd : 10/13/2018 12:45 pm
Sample : il13262,42e,,8734

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/22/2018 12:46 pm

Compound #99: 1262-5 #2



Original Peak Response = 88416599



Manual Peak Response = 37887610 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-10.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 12:57 pm
Operator : Pest12:kb
Sample : il23262,42e,,8735
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 11:11:51 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 11:09:00 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	2.069	2.224	772.2E6	1156.9E6	250.000M4	250.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	500.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	500.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-10.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 12:57 pm
Operator : Pest12:kb
Sample : il23262,42e,,8735
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 11:11:51 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 11:09:00 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-10.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 12:57 pm
Operator : Pest12:kb
Sample : il23262,42e,,8735
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 11:11:51 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 11:09:00 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	2.780	3.231	35000166	54234090	611.397	563.491M4
42) l5	1232-2	3.025	3.557	33431926	55660337	601.881	567.885M4
43) l5	1232-3	3.367	3.952	66707599	109.7E6	582.558	567.745M1
44) l5	1232-4	3.468	4.066	27179155	40991155	582.627	562.005M4
45) l5	1232-5	4.127	4.751	21222805	28637175	615.876	524.765M4
Sum	1232-1			183.5E6	289.2E6	2994.339	2785.891
Average	1232-1					598.868	557.178
46) l8	1262-1	4.952	5.564	85274179	105.0E6	585.225	558.178M4
47) l8	1262-2	5.241	5.882	101.4E6	141.5E6	571.692	562.678M4
48) l8	1262-3	5.419	6.091	89237620	121.1E6	565.680	553.947M4
49) l8	1262-4	5.635	6.252	166.7E6	237.6E6	521.162	558.094M4
50) l8	1262-5	5.855	6.495	67995221	168.1E6	570.298	567.298M4
Sum	1262-1			510.6E6	773.4E6	2814.057	2800.194
Average	1262-1					562.811	560.039

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			510.6E6	773.4E6	2814.057	2800.194
Average	1262-1					562.811	560.039

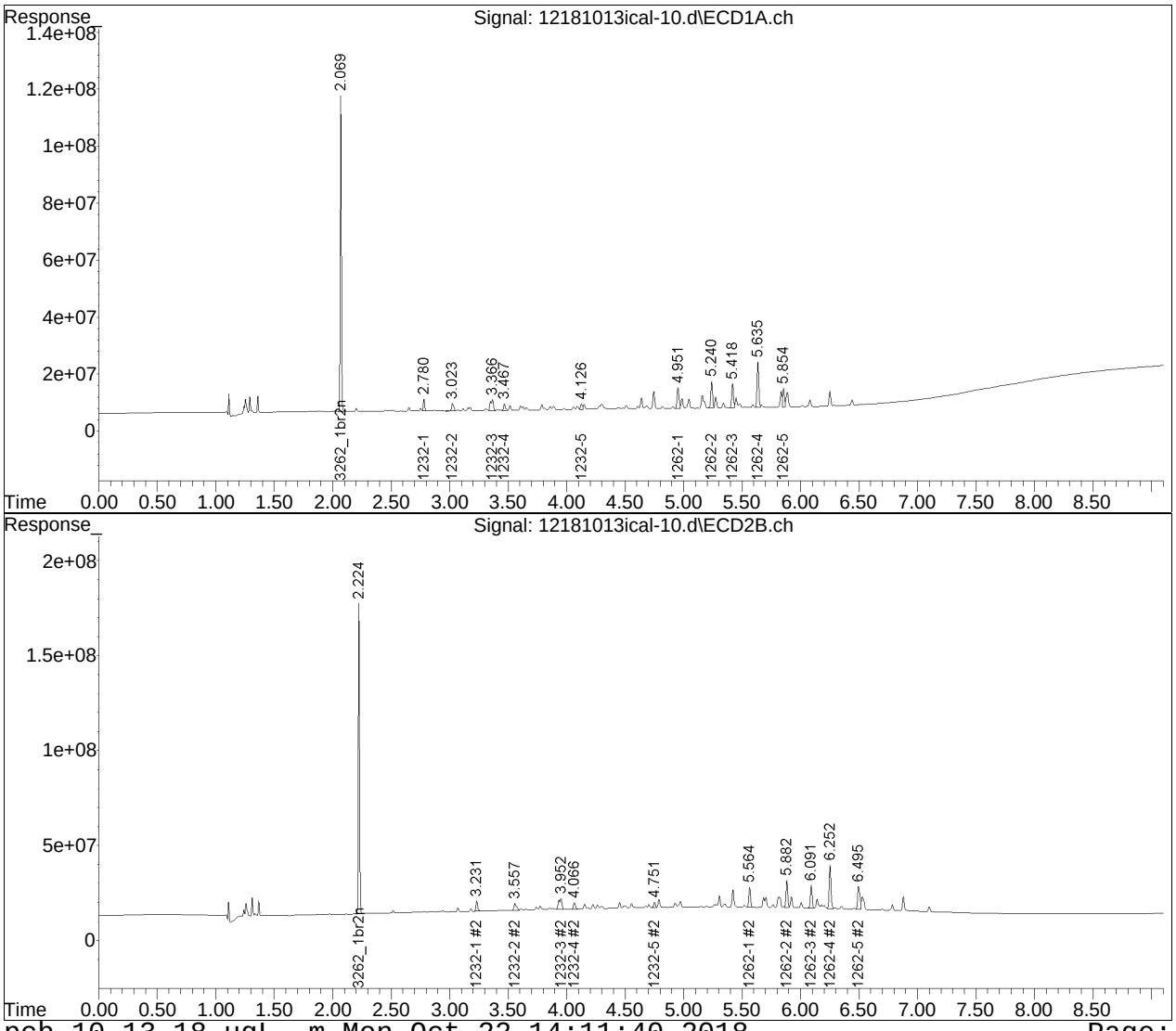
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-10.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 12:57 pm
Operator : Pest12:kb
Sample : il23262,42e,,8735
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 11:11:51 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 11:09:00 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

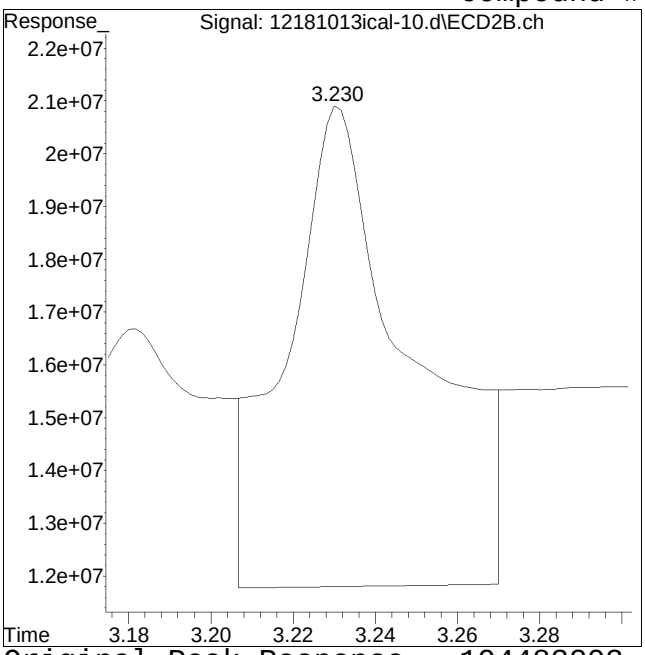


Manual Integration Report

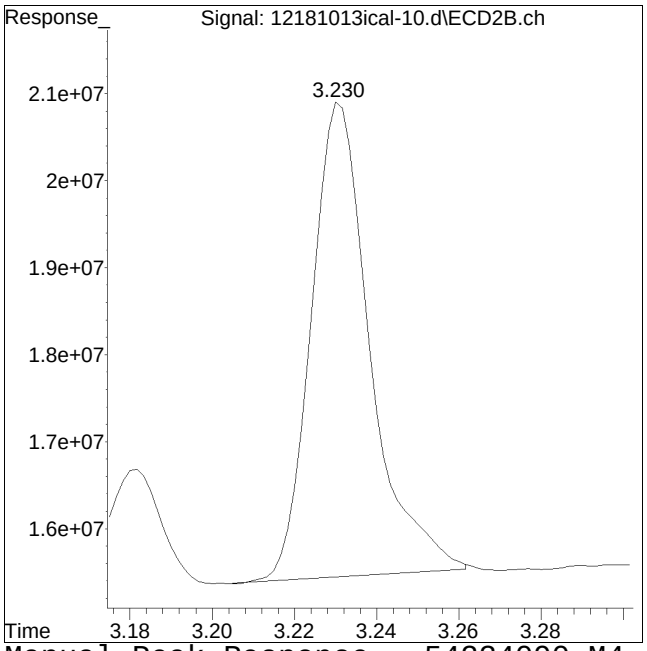
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-10.d
Date Inj'd : 10/13/2018 12:57 pm
Sample : il23262,42e,,8735

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:09 am

Compound #92: 1232-1 #2



Original Peak Response = 194483203



Manual Peak Response = 54234090 M4

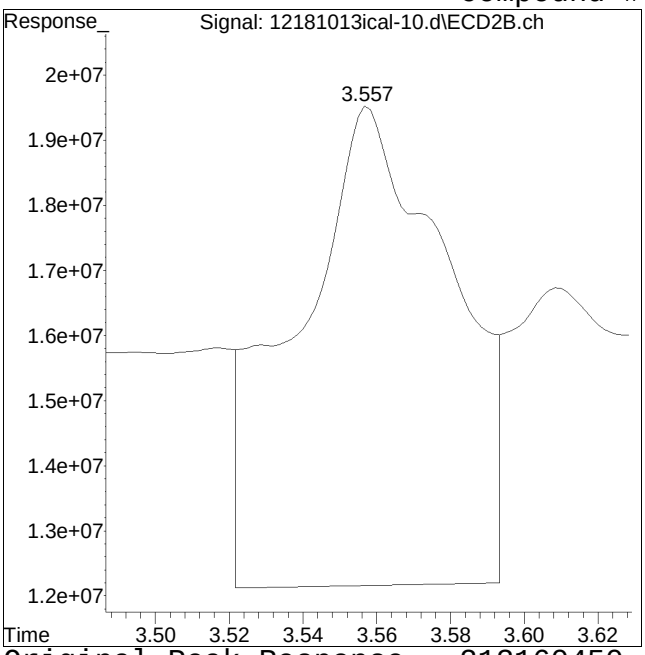
M4 = Poor automated baseline construction.

Manual Integration Report

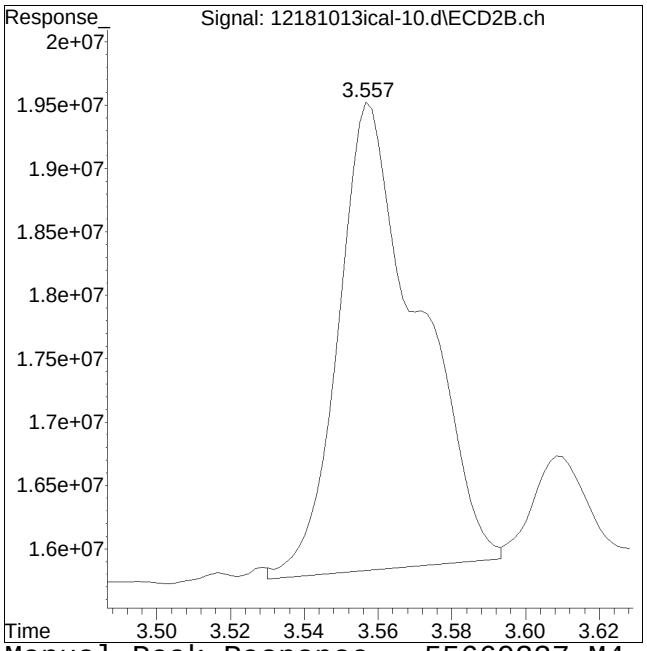
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-10.d
Date Inj'd : 10/13/2018 12:57 pm
Sample : il23262,42e,,8735

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:09 am

Compound #93: 1232-2 #2



Original Peak Response = 213160450



Manual Peak Response = 55660337 M4

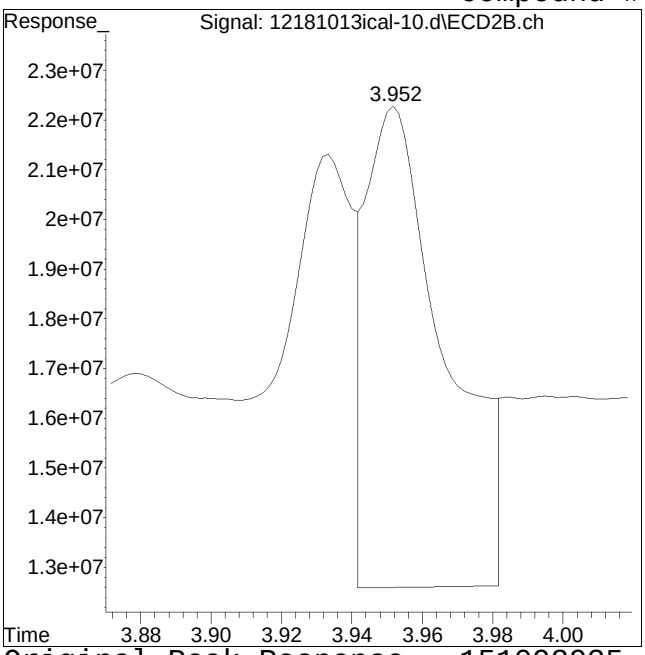
M4 = Poor automated baseline construction.

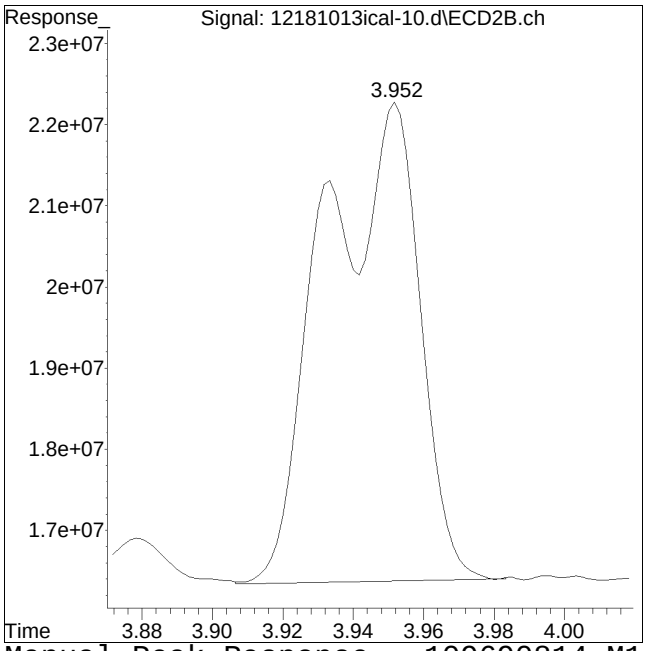
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-10.d
Date Inj'd : 10/13/2018 12:57 pm
Sample : il23262,42e,,8735

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:09 am

Compound #94: 1232-3 #2





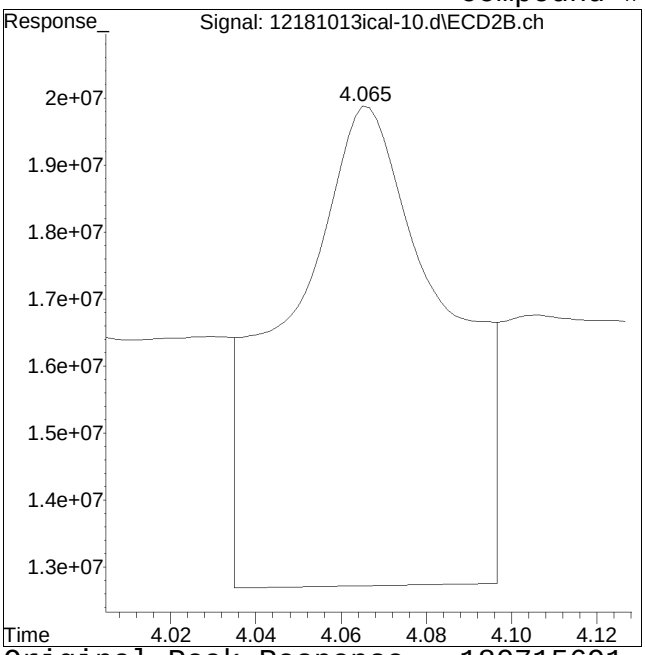
Original Peak Response = 151092935 Manual Peak Response = 109690814 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

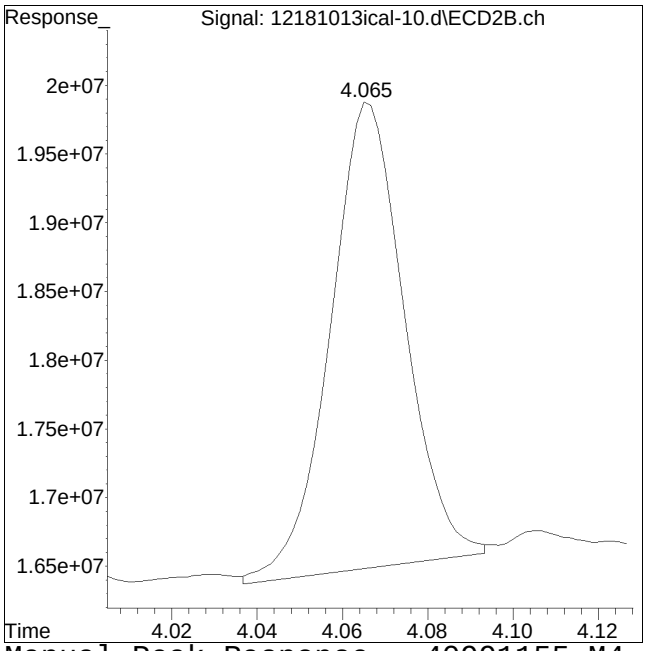
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-10.d
Date Inj'd : 10/13/2018 12:57 pm
Sample : il23262,42e,,8735

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:09 am

Compound #95: 1232-4 #2



Original Peak Response = 180715691



Manual Peak Response = 40991155 M4

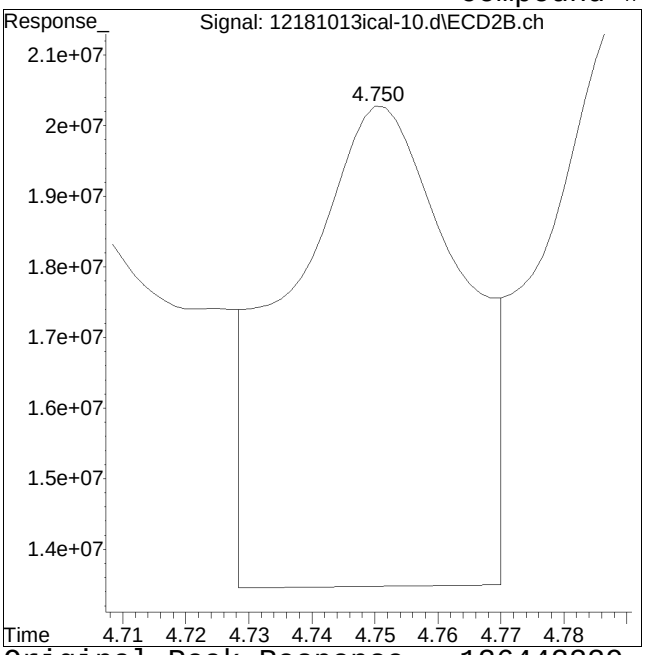
M4 = Poor automated baseline construction.

Manual Integration Report

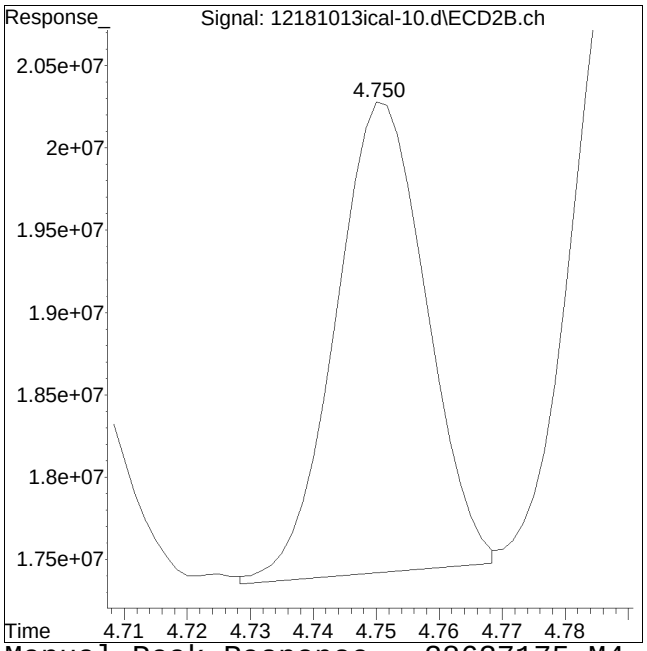
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-10.d
Date Inj'd : 10/13/2018 12:57 pm
Sample : il23262,42e,,8735

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:09 am

Compound #96: 1232-5 #2



Original Peak Response = 126442329



Manual Peak Response = 28637175 M4

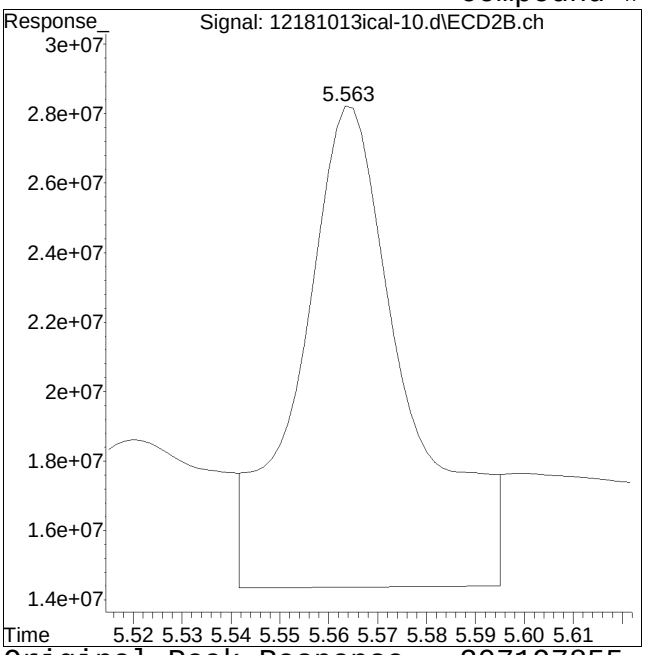
M4 = Poor automated baseline construction.

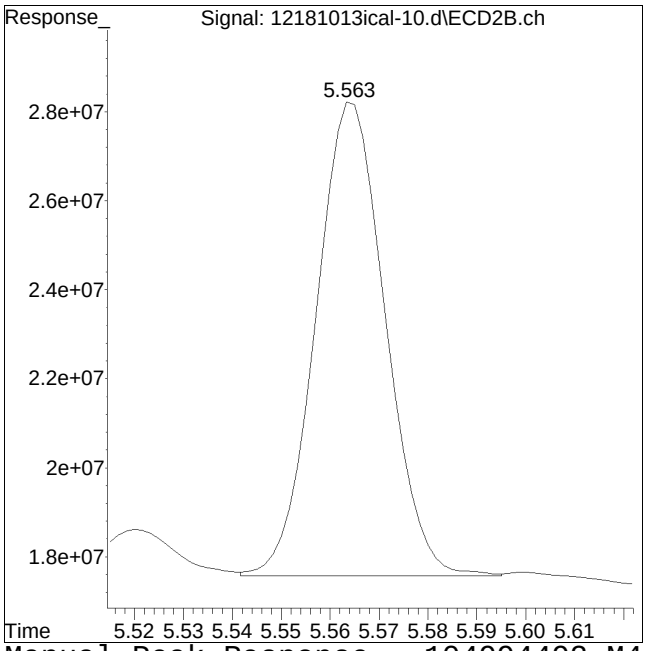
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-10.d
Date Inj'd : 10/13/2018 12:57 pm
Sample : il23262,42e,,8735

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:09 am

Compound #97: 1262-1 #2





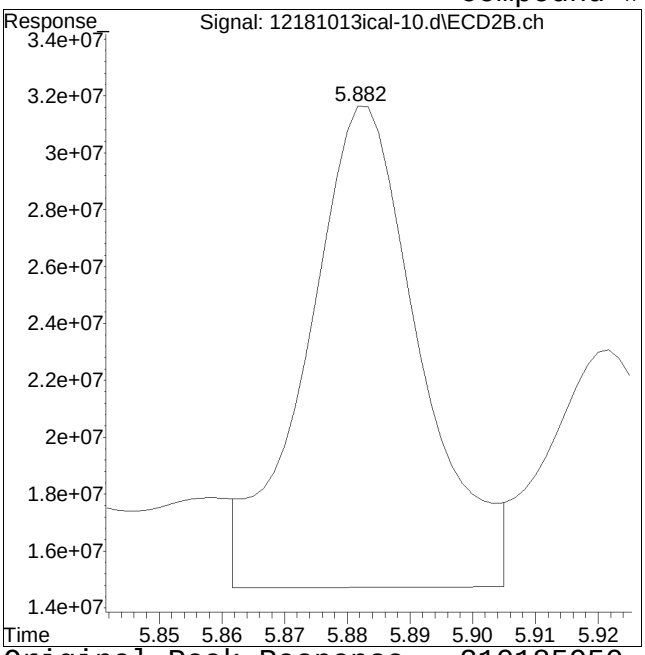
Original Peak Response = 207197855 Manual Peak Response = 104994492 M4
M4 = Poor automated baseline construction.

Manual Integration Report

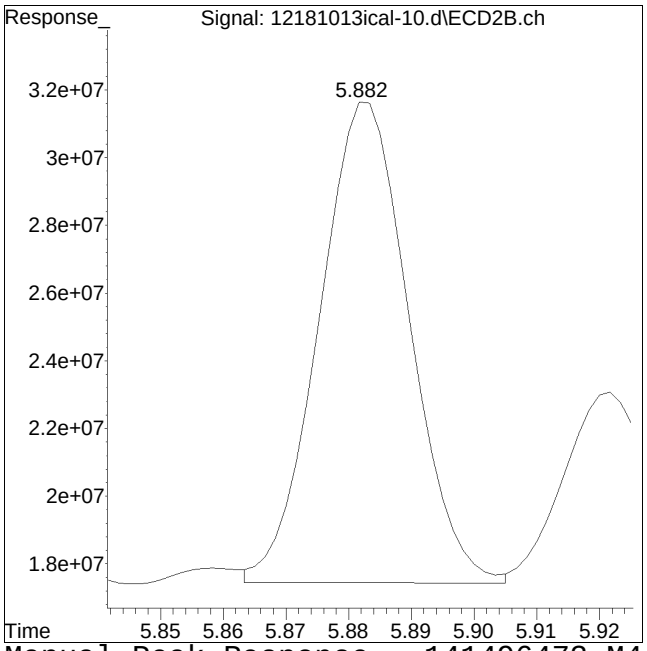
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-10.d
Date Inj'd : 10/13/2018 12:57 pm
Sample : il23262,42e,,8735

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:09 am

Compound #98: 1262-2 #2



Original Peak Response = 210185950



Manual Peak Response = 141496473 M4

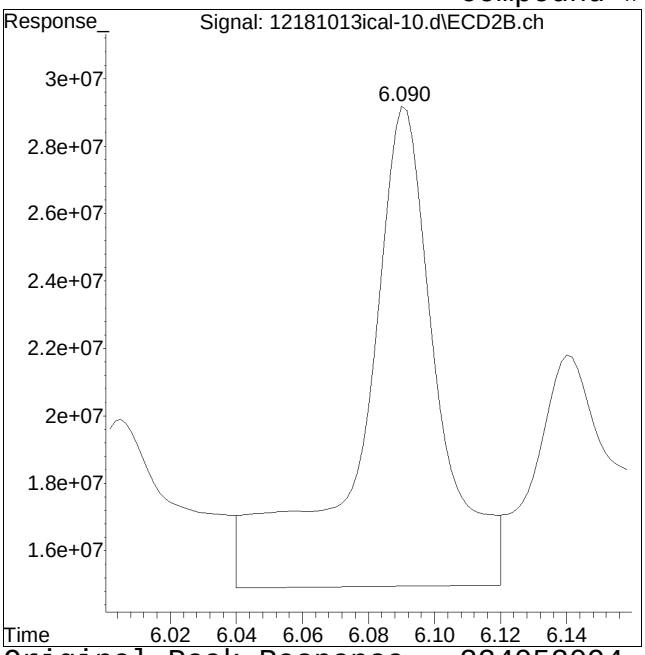
M4 = Poor automated baseline construction.

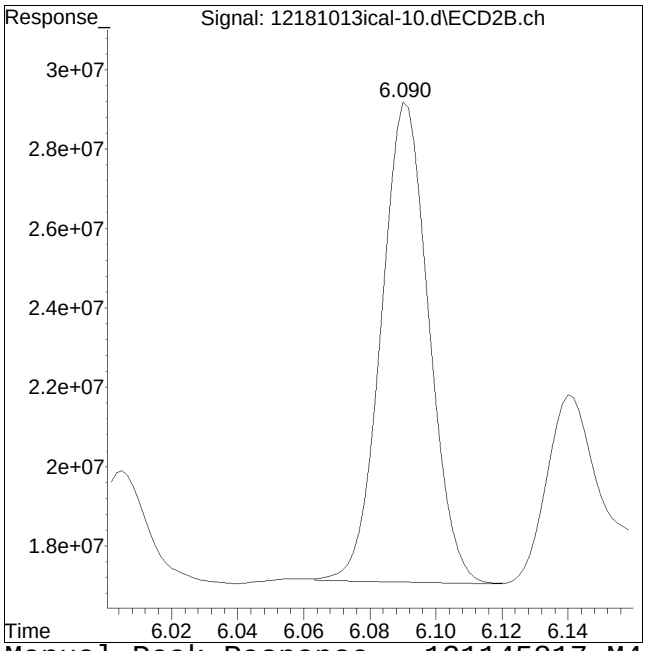
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-10.d
Date Inj'd : 10/13/2018 12:57 pm
Sample : il23262,42e,,8735

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:09 am

Compound #99: 1262-3 #2





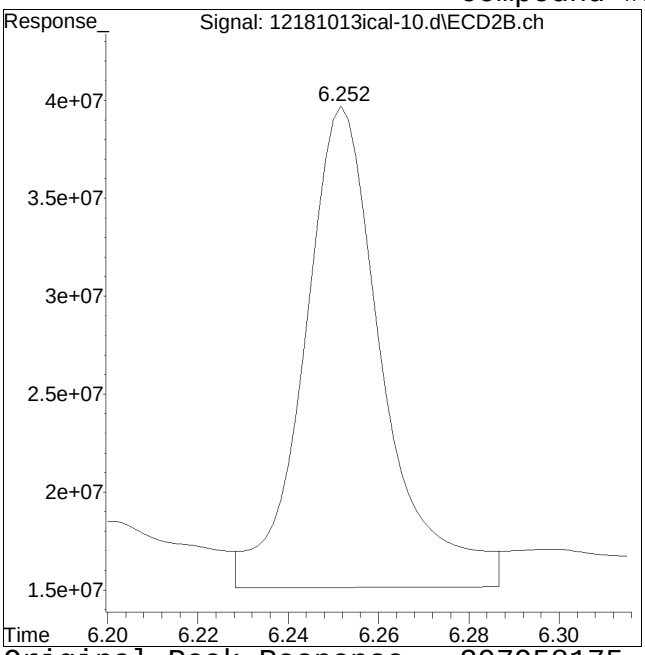
Original Peak Response = 224052094 Manual Peak Response = 121145817 M4
M4 = Poor automated baseline construction.

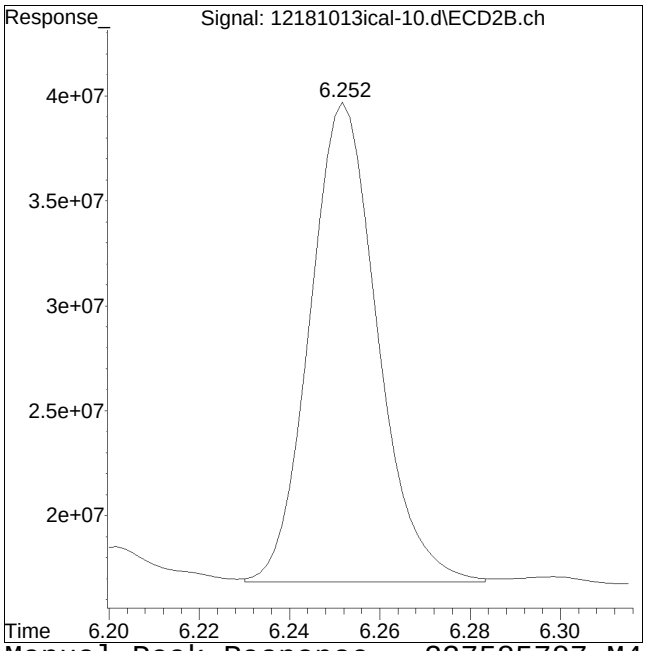
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-10.d
Date Inj'd : 10/13/2018 12:57 pm
Sample : il23262,42e,,8735

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:09 am

Compound #100: 1262-4 #2





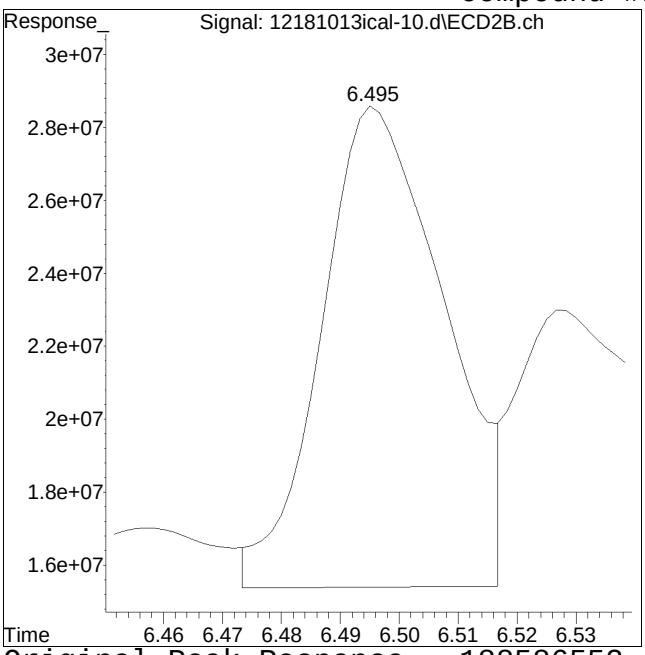
Original Peak Response = 297958175 Manual Peak Response = 237585787 M4
M4 = Poor automated baseline construction.

Manual Integration Report

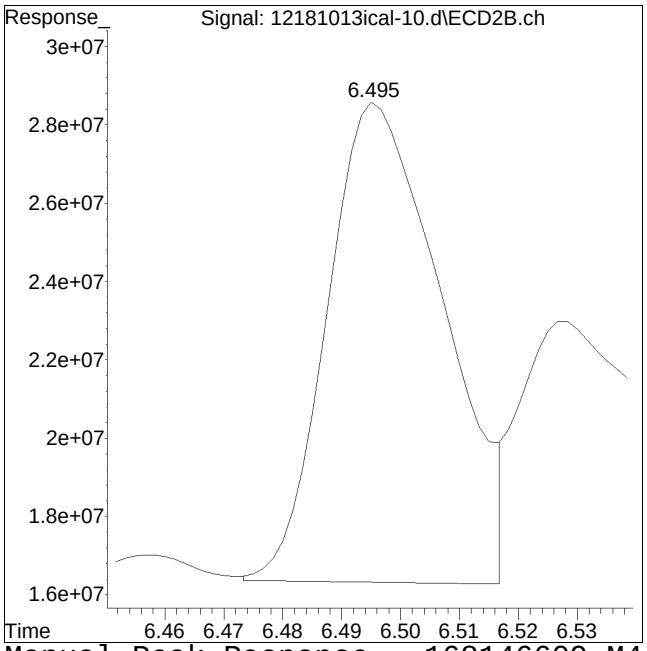
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-10.d
Date Inj'd : 10/13/2018 12:57 pm
Sample : il23262,42e,,8735

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:09 am

Compound #101: 1262-5 #2



Original Peak Response = 188586552



Manual Peak Response = 168146609 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-11.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 1:10 pm
Operator : Pest12:kb
Sample : il33262,42e,,8736
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 11:08:51 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 11:04:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	2.069	2.225	775.5E6	1157.5E6	250.000M4	250.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	500.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	500.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-11.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 1:10 pm
Operator : Pest12:kb
Sample : il33262,42e,,8736
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 11:08:51 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 11:04:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-11.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 1:10 pm
Operator : Pest12:kb
Sample : il33262,42e,,8736
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 11:08:51 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 11:04:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1248-1					0.000	0.000
41) l5	1232-1	2.779	3.231	67839028	109.5E6	1255.356M4	1191.661M4
42) l5	1232-2	3.023	3.558	64169427	112.0E6	1211.067M4	1198.586M4
43) l5	1232-3	3.366	3.952	130.3E6	220.2E6	1186.325M4	1194.453M1
44) l5	1232-4	3.467	4.067	52563722	82229200	1169.586M4	1176.624M4
45) l5	1232-5	4.127	4.752	37897056	58478354	1130.953M3	1097.086M4
Sum	1232-1			352.8E6	582.4E6	5953.287	5858.409
Average	1232-1					1190.657	1171.682
46) l8	1262-1	4.952	5.565	167.6E6	207.7E6	1203.523	1143.117M4
47) l8	1262-2	5.241	5.882	200.2E6	278.3E6	1173.395	1146.608M4
48) l8	1262-3	5.418	6.091	178.6E6	248.0E6	1176.974M3	1186.164M4
49) l8	1262-4	5.636	6.252	350.4E6	475.5E6	1124.516	1161.654M4
50) l8	1262-5	5.855	6.496	136.0E6	331.5E6	1189.883M3	1163.472M4
Sum	1262-1			1032.8E6	1541.0E6	5868.291	5801.014
Average	1262-1					1173.658	1160.203

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			1032.8E6	1541.0E6	5868.291	5801.014
Average	1262-1					1173.658	1160.203

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-11.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 1:10 pm
Operator : Pest12:kb
Sample : il33262,42e,,8736
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 11:08:51 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 11:04:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

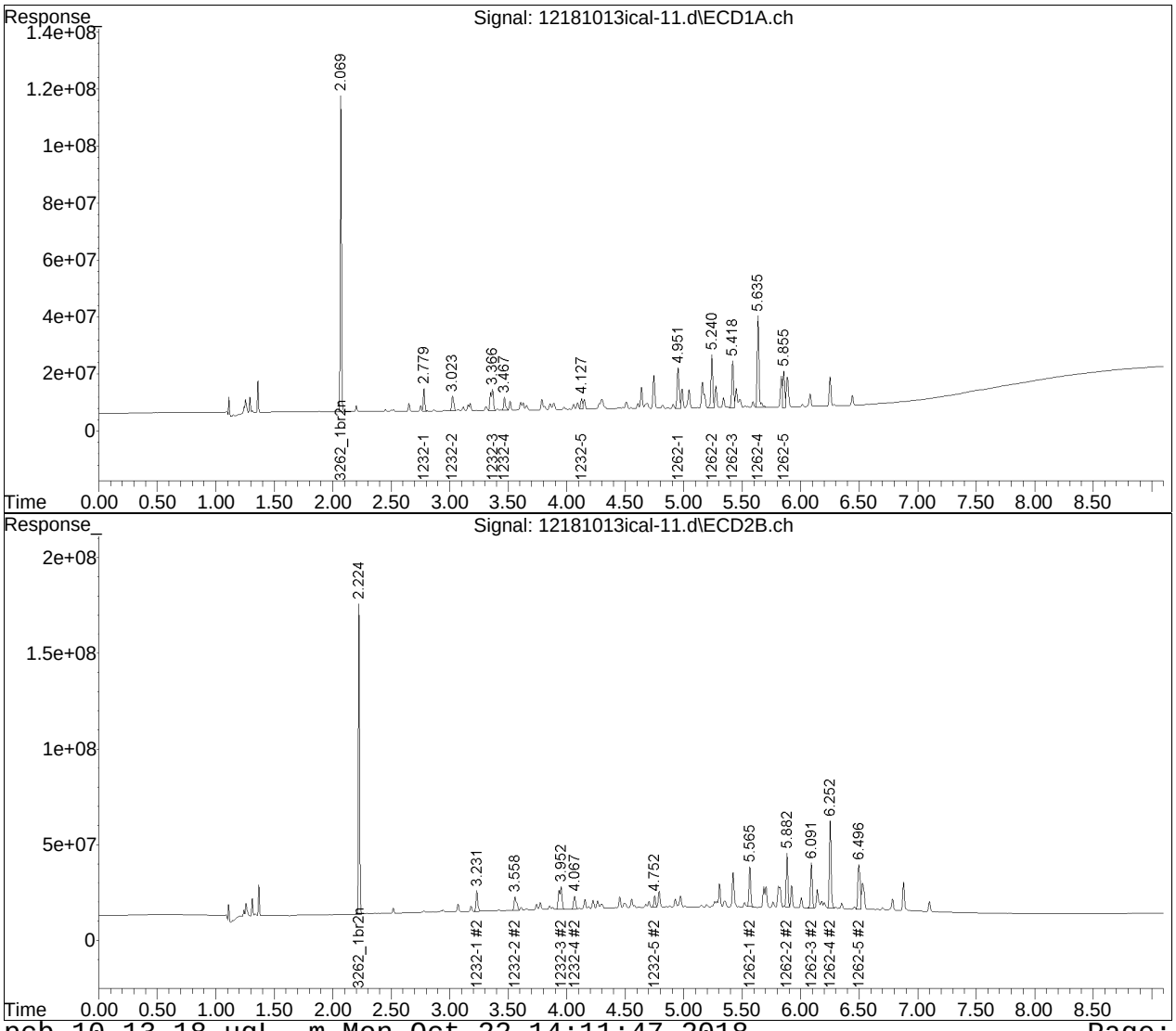
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-11.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 1:10 pm
Operator : Pest12:kb
Sample : il33262,42e,,8736
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 11:08:51 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 11:04:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

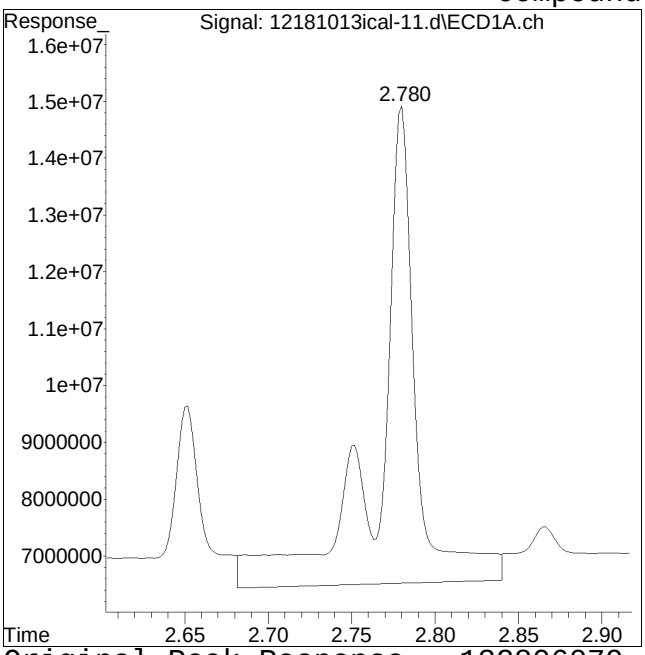


Manual Integration Report

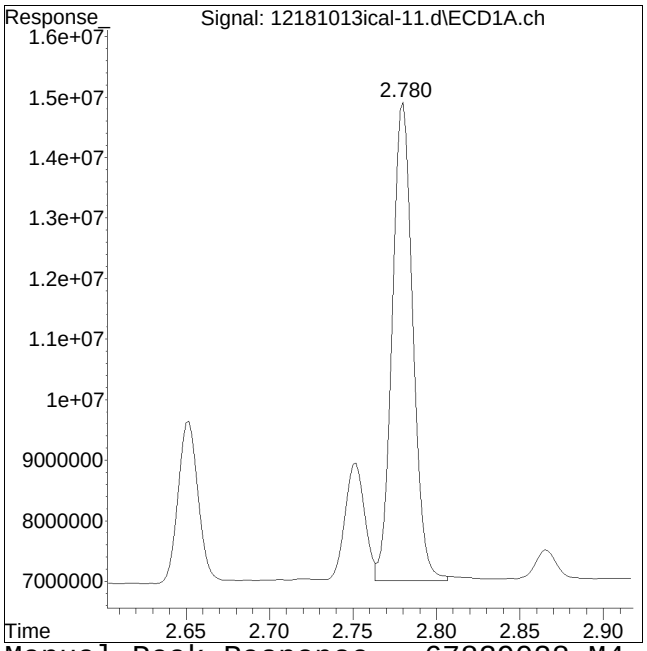
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-11.d
Date Inj'd : 10/13/2018 1:10 pm
Sample : il33262,42e,,8736

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:04 am

Compound #41: 1232-1



Original Peak Response = 132806079



Manual Peak Response = 67839028 M4

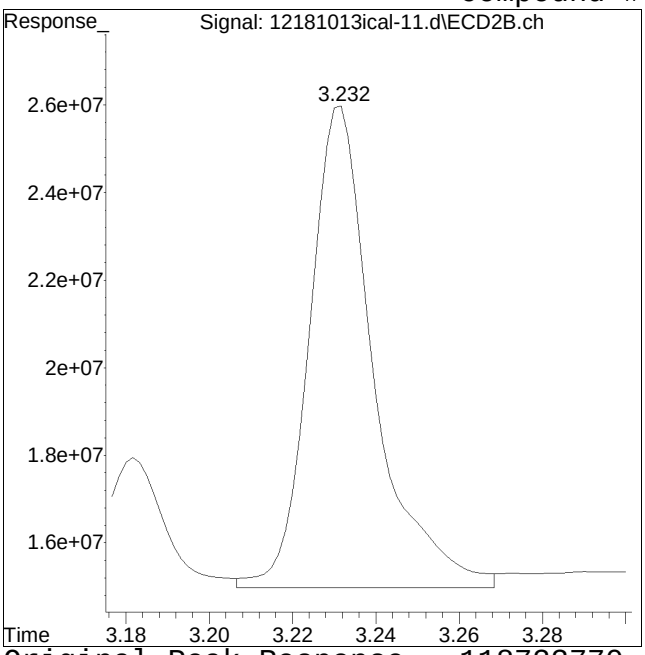
M4 = Poor automated baseline construction.

Manual Integration Report

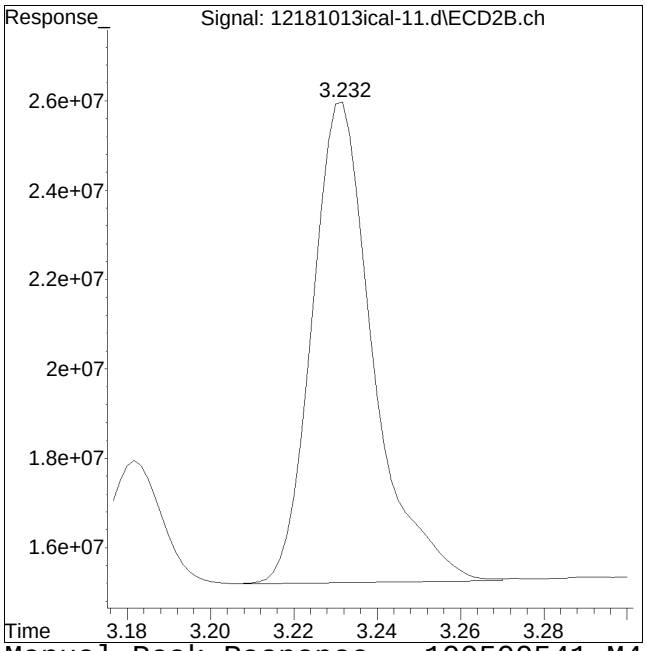
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-11.d
Date Inj'd : 10/13/2018 1:10 pm
Sample : il33262,42e,,8736

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:04 am

Compound #92: 1232-1 #2



Original Peak Response = 118733770



Manual Peak Response = 109500541 M4

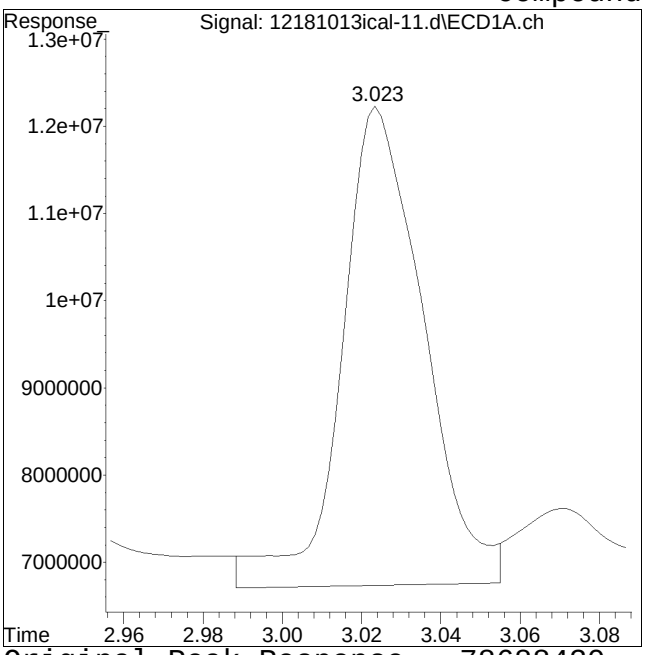
M4 = Poor automated baseline construction.

Manual Integration Report

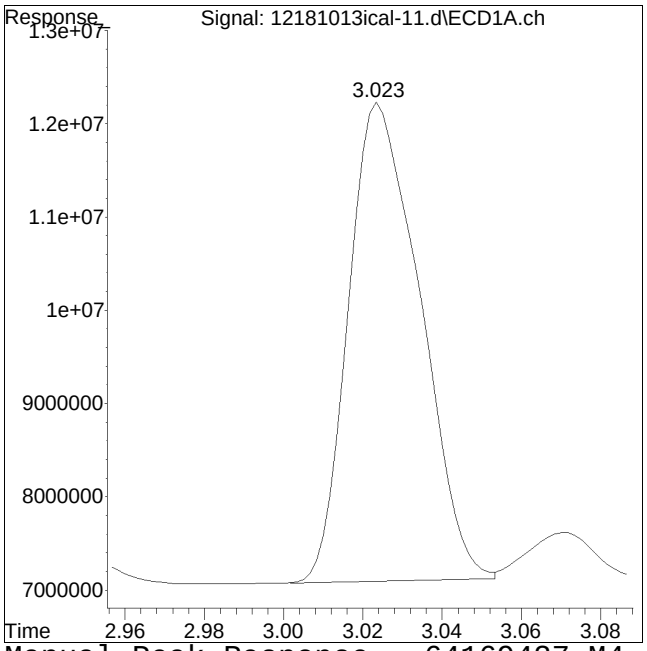
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-11.d
Date Inj'd : 10/13/2018 1:10 pm
Sample : il33262,42e,,8736

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:04 am

Compound #42: 1232-2



Original Peak Response = 78688430



Manual Peak Response = 64169427 M4

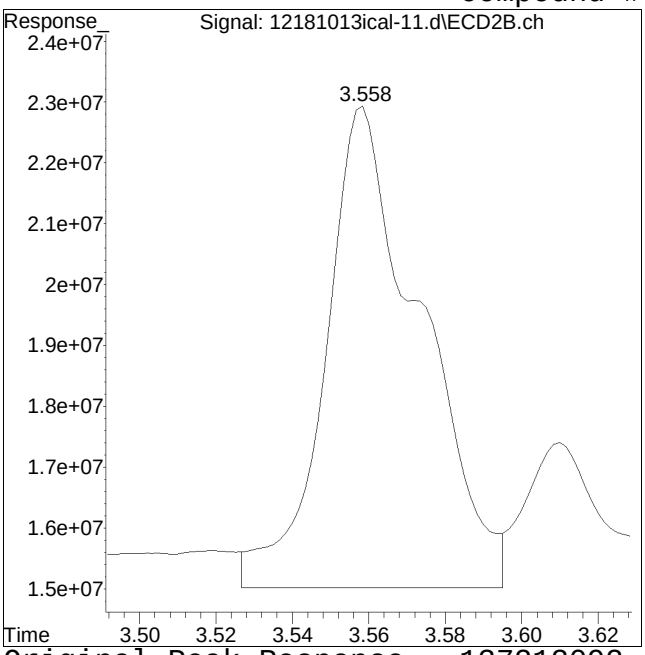
M4 = Poor automated baseline construction.

Manual Integration Report

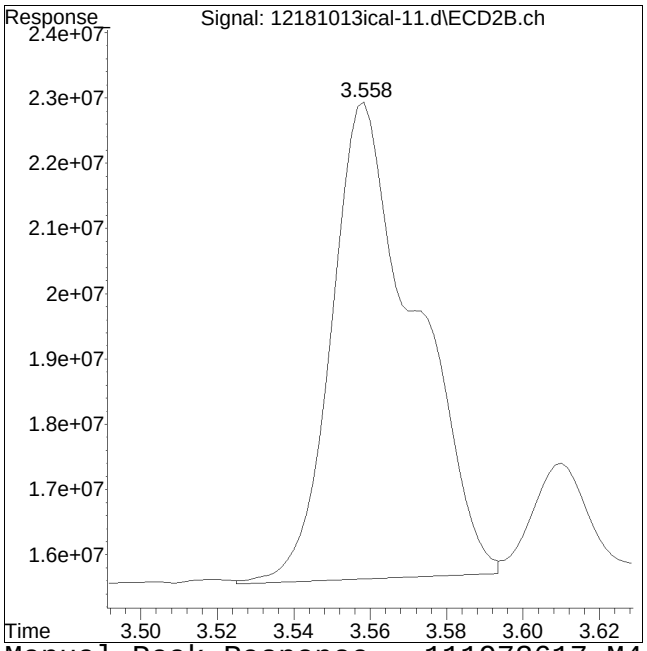
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-11.d
Date Inj'd : 10/13/2018 1:10 pm
Sample : il33262,42e,,8736

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:04 am

Compound #93: 1232-2 #2



Original Peak Response = 137212092



Manual Peak Response = 111973617 M4

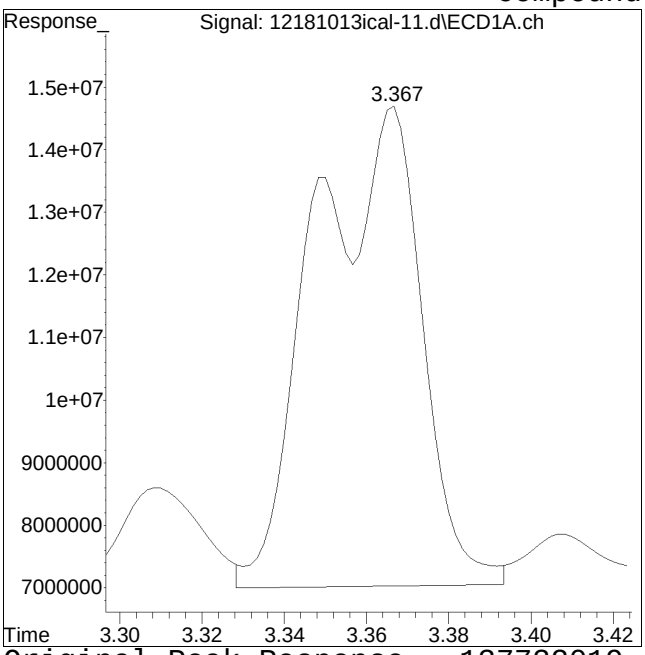
M4 = Poor automated baseline construction.

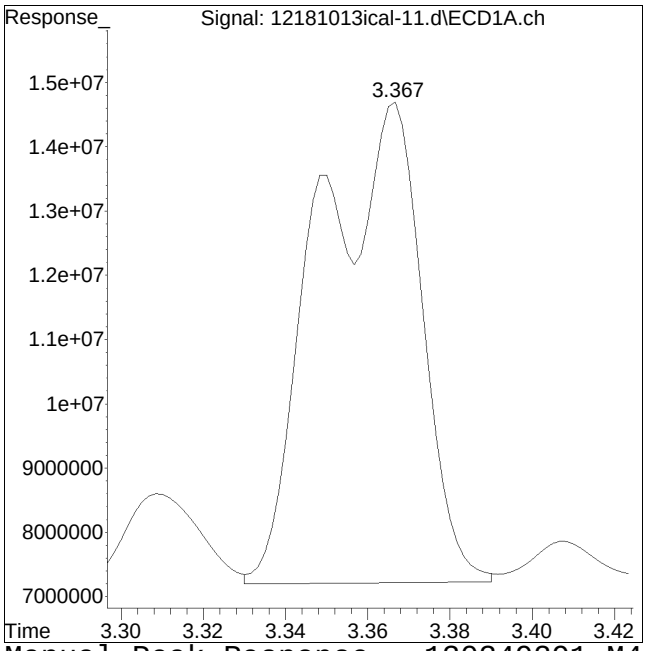
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-11.d
Date Inj'd : 10/13/2018 1:10 pm
Sample : il33262,42e,,8736

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:04 am

Compound #43: 1232-3





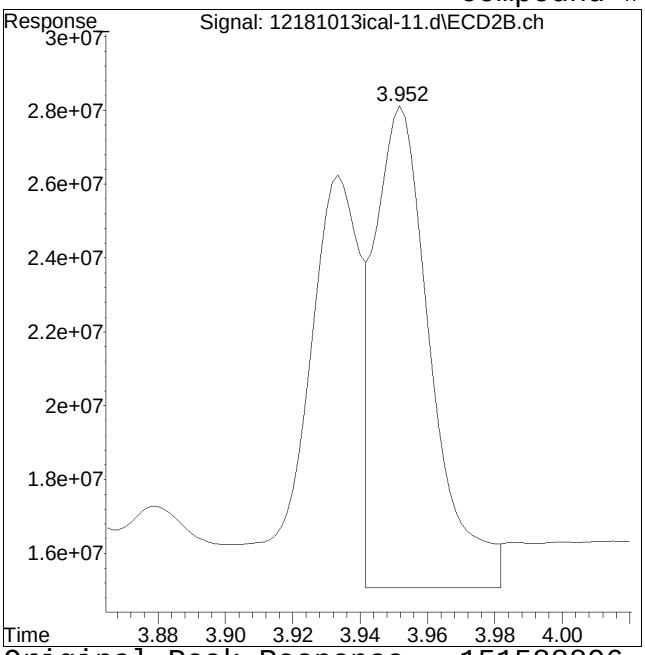
Original Peak Response = 137732019 Manual Peak Response = 130349291 M4
M4 = Poor automated baseline construction.

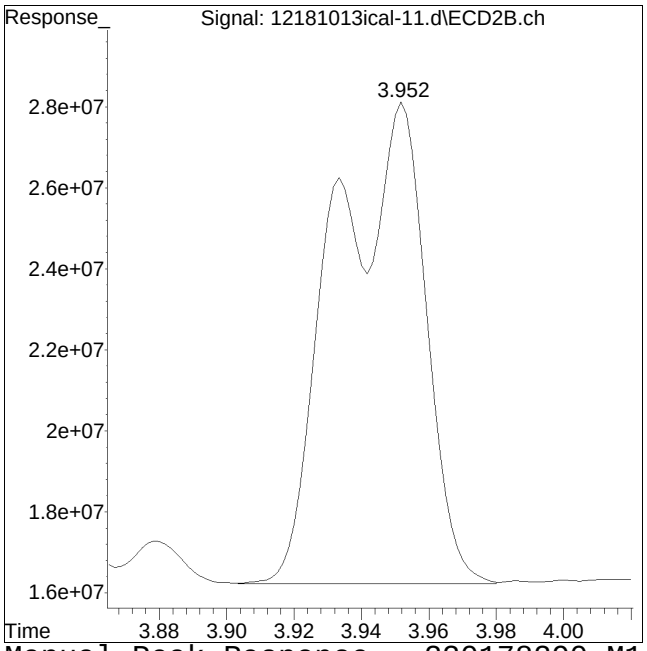
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-11.d
Date Inj'd : 10/13/2018 1:10 pm
Sample : il33262,42e,,8736

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:04 am

Compound #94: 1232-3 #2





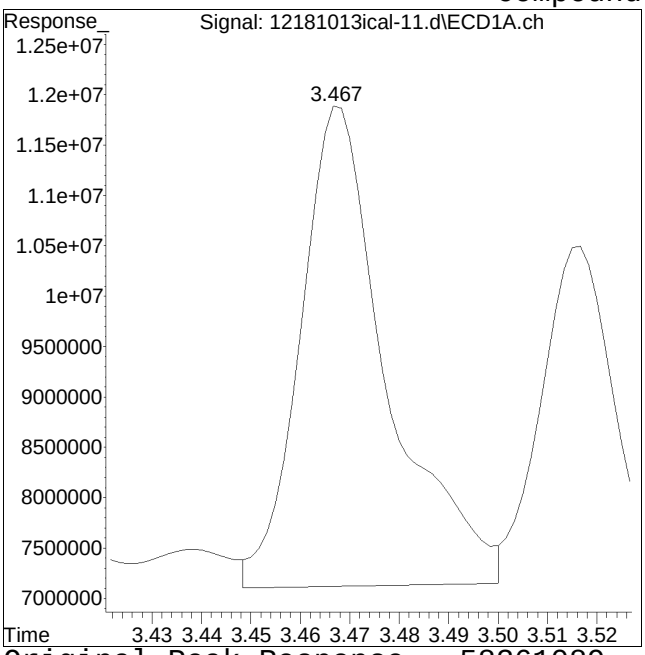
Original Peak Response = 151588806 Manual Peak Response = 220178290 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

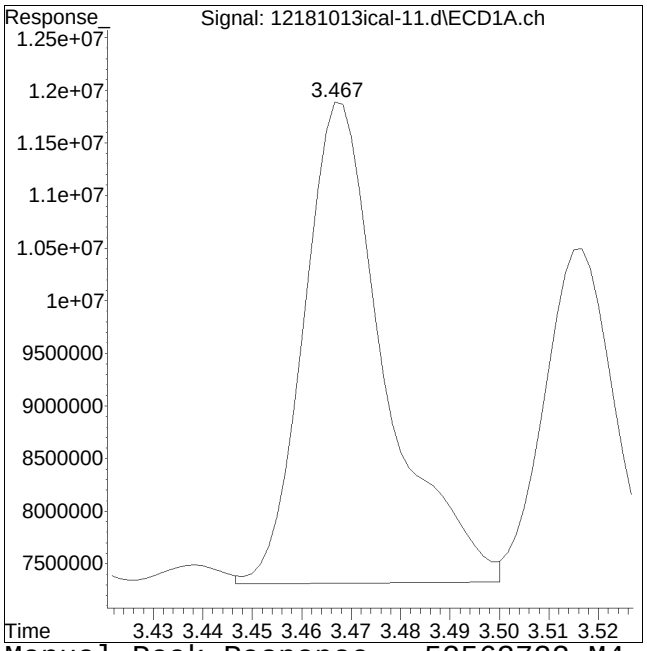
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-11.d
Date Inj'd : 10/13/2018 1:10 pm
Sample : il33262,42e,,8736

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:04 am

Compound #44: 1232-4



Original Peak Response = 58361089



Manual Peak Response = 52563722 M4

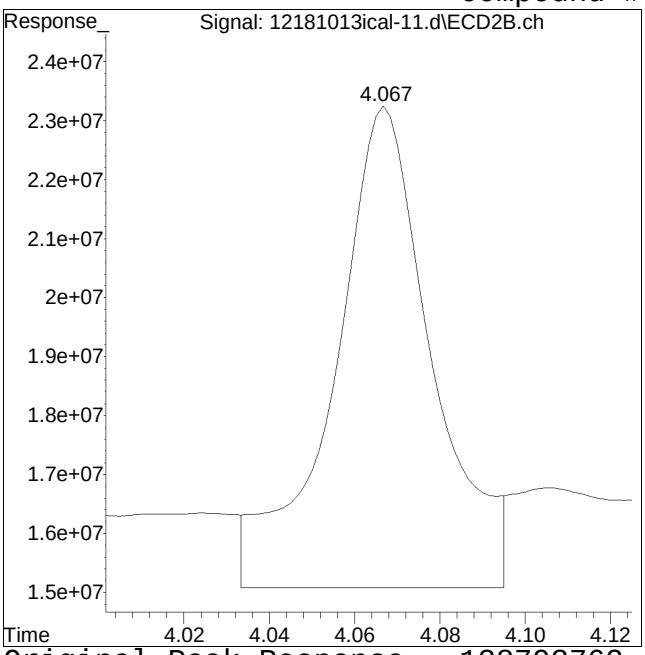
M4 = Poor automated baseline construction.

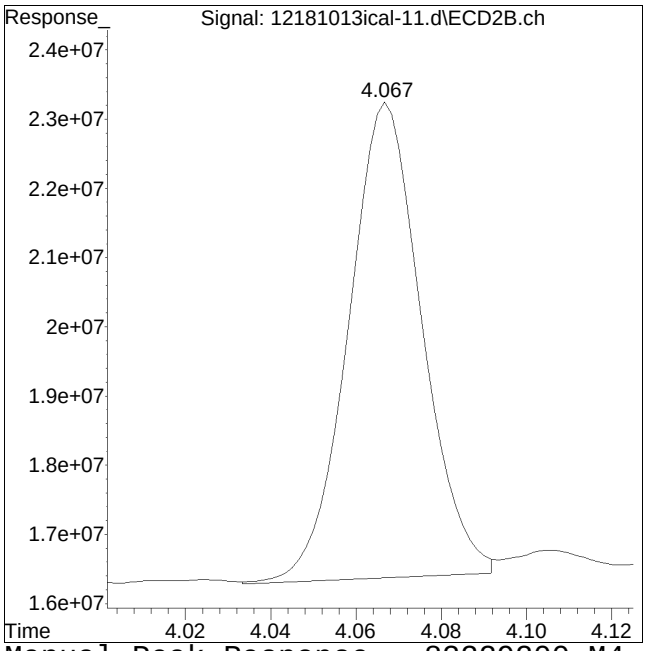
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-11.d
Date Inj'd : 10/13/2018 1:10 pm
Sample : il33262,42e,,8736

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:04 am

Compound #95: 1232-4 #2





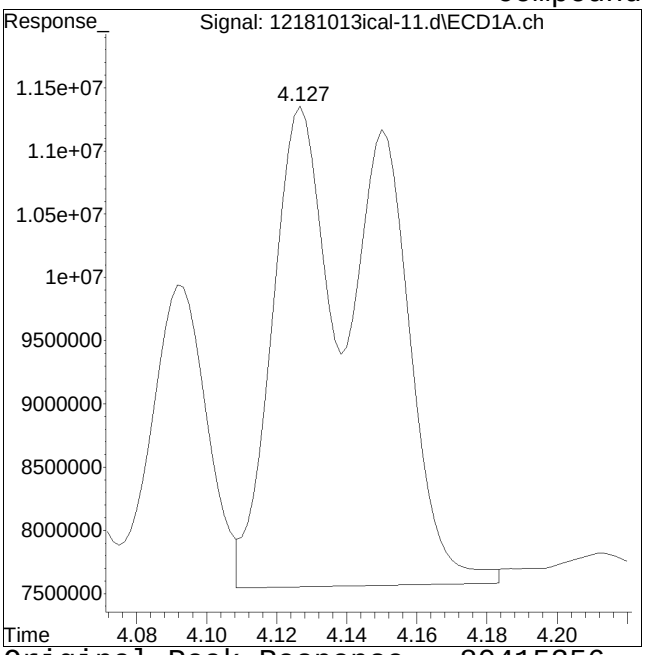
Original Peak Response = 128793762 Manual Peak Response = 82229200 M4
M4 = Poor automated baseline construction.

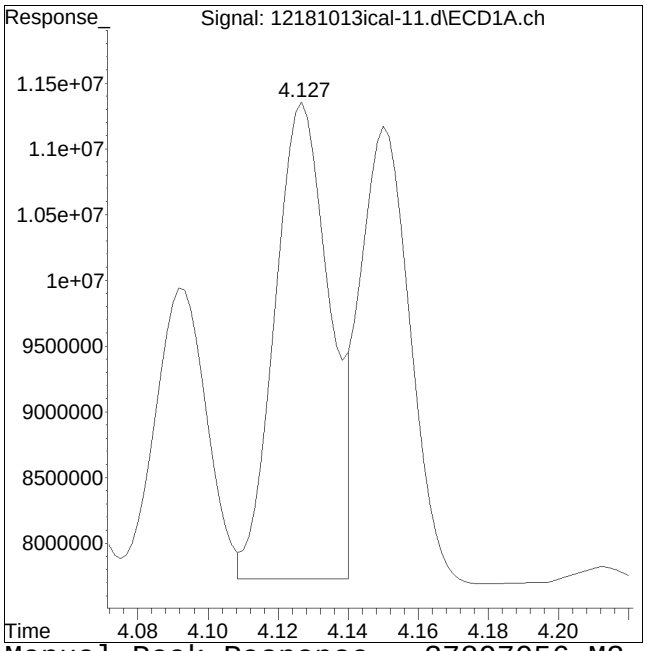
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-11.d
Date Inj'd : 10/13/2018 1:10 pm
Sample : il33262,42e,,8736

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:04 am

Compound #45: 1232-5





Original Peak Response = 80415356 Manual Peak Response = 37897056 M3

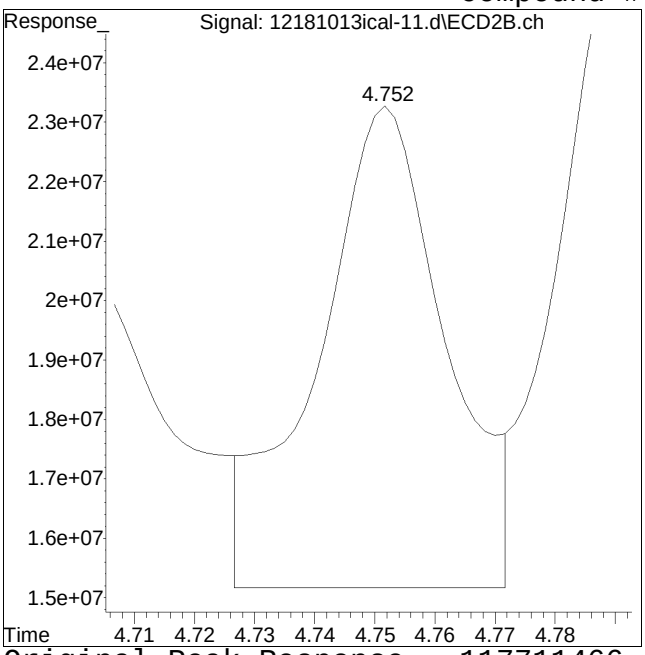
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

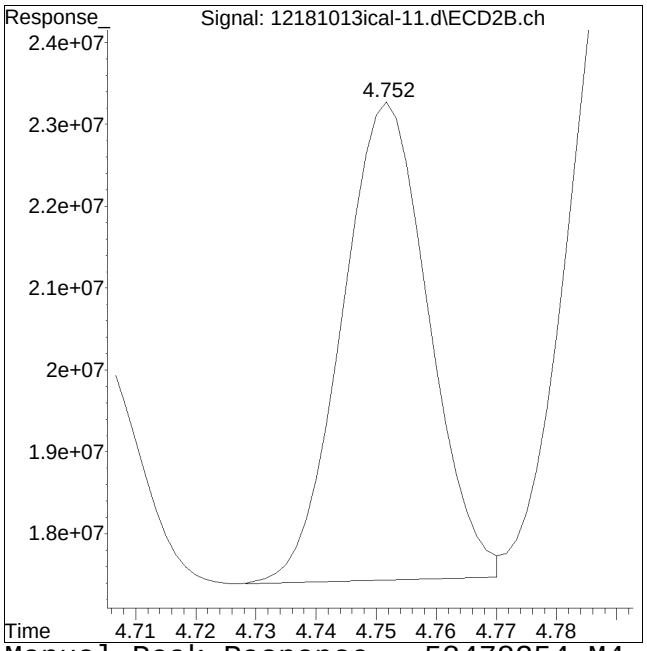
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-11.d
Date Inj'd : 10/13/2018 1:10 pm
Sample : il33262,42e,,8736

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:04 am

Compound #96: 1232-5 #2



Original Peak Response = 117711466



Manual Peak Response = 58478354 M4

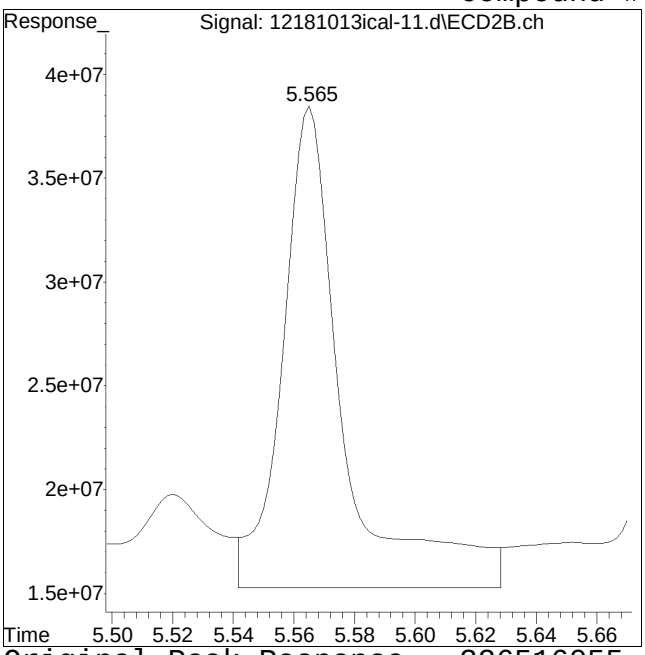
M4 = Poor automated baseline construction.

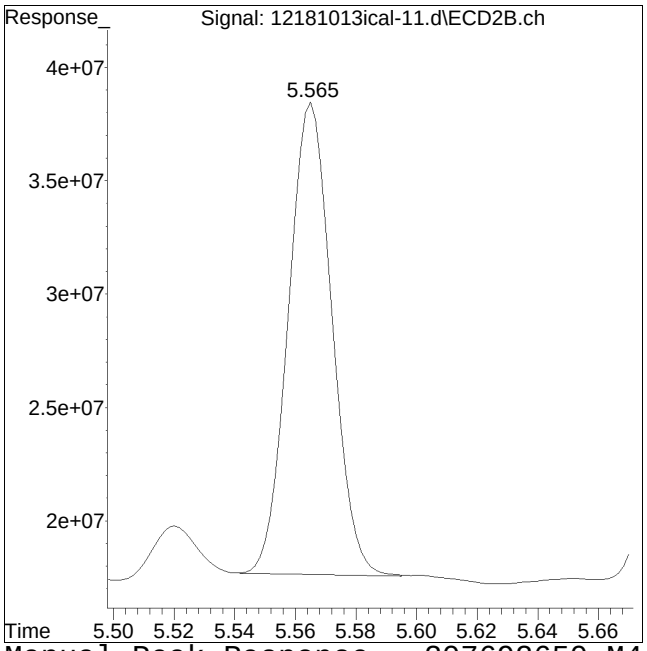
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-11.d
Date Inj'd : 10/13/2018 1:10 pm
Sample : il33262,42e,,8736

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:04 am

Compound #97: 1262-1 #2





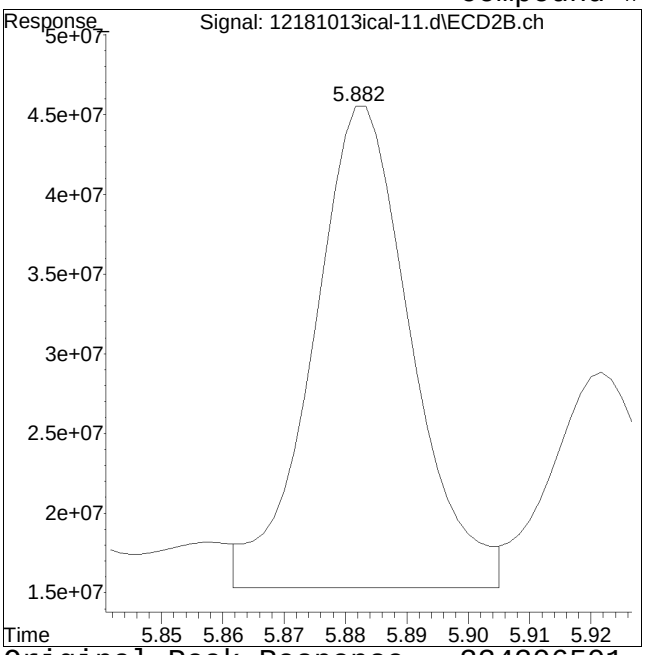
Original Peak Response = 326516055 Manual Peak Response = 207692650 M4
M4 = Poor automated baseline construction.

Manual Integration Report

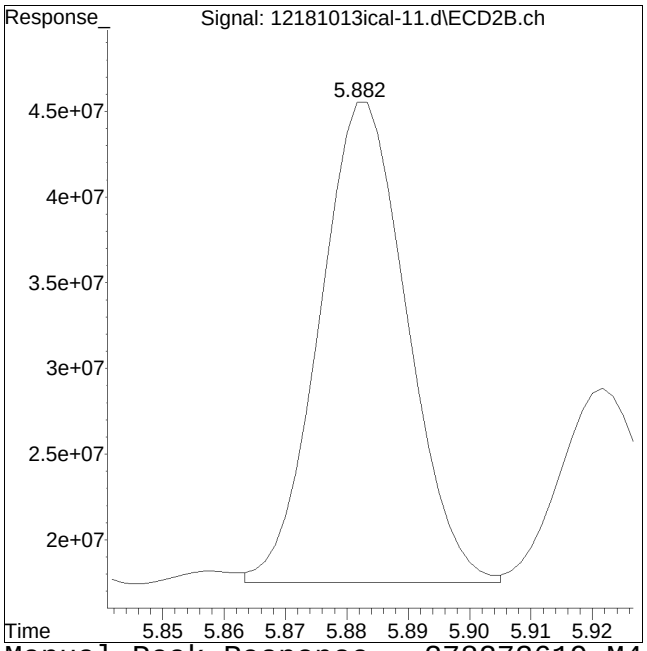
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-11.d
Date Inj'd : 10/13/2018 1:10 pm
Sample : il33262,42e,,8736

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:04 am

Compound #98: 1262-2 #2



Original Peak Response = 334306501



Manual Peak Response = 278273619 M4

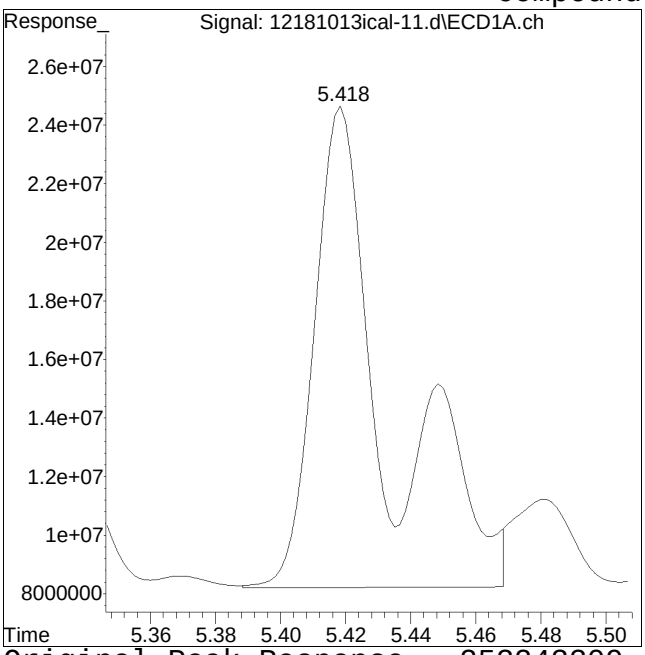
M4 = Poor automated baseline construction.

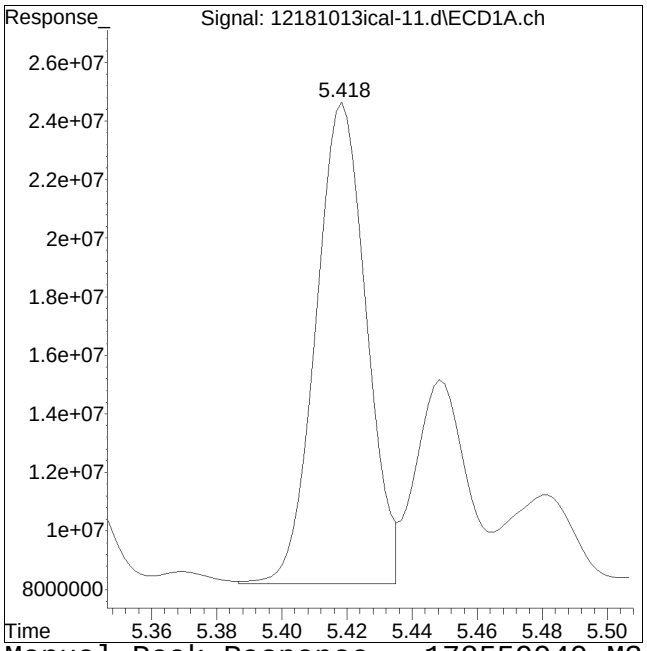
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-11.d
Date Inj'd : 10/13/2018 1:10 pm
Sample : il33262,42e,,8736

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:04 am

Compound #48: 1262-3





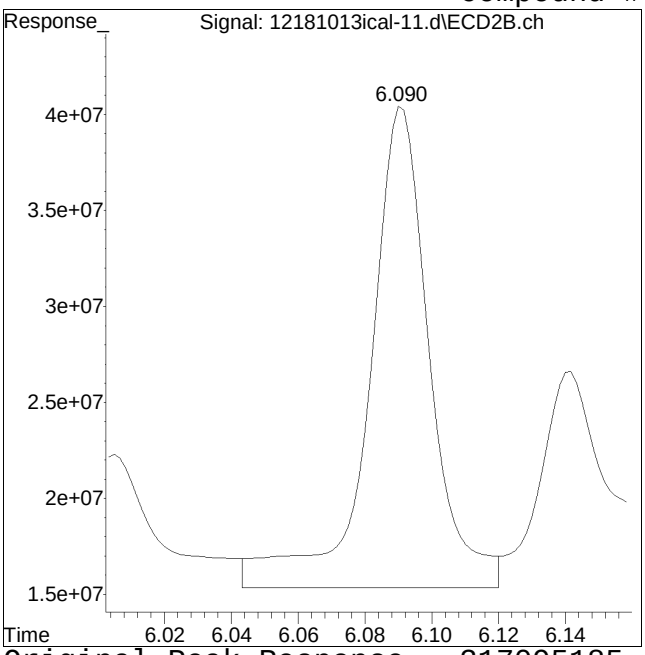
Original Peak Response = 253243309 Manual Peak Response = 178559940 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

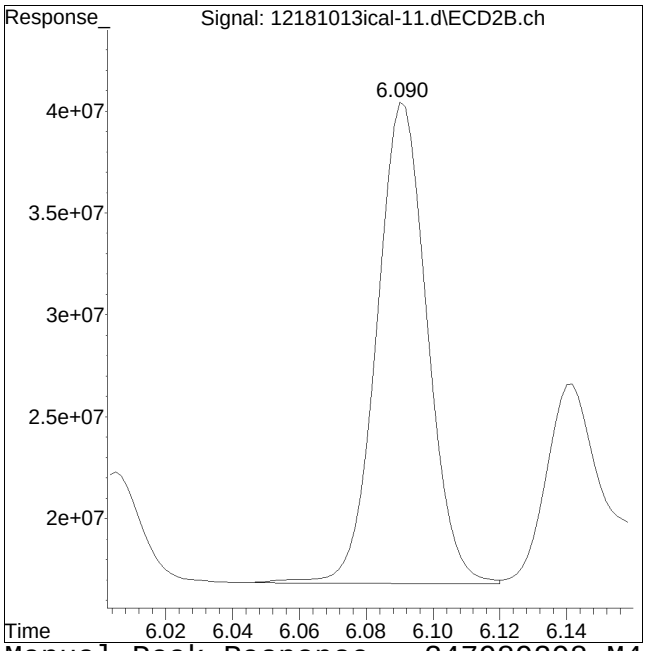
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-11.d
Date Inj'd : 10/13/2018 1:10 pm
Sample : il33262,42e,,8736

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:04 am

Compound #99: 1262-3 #2





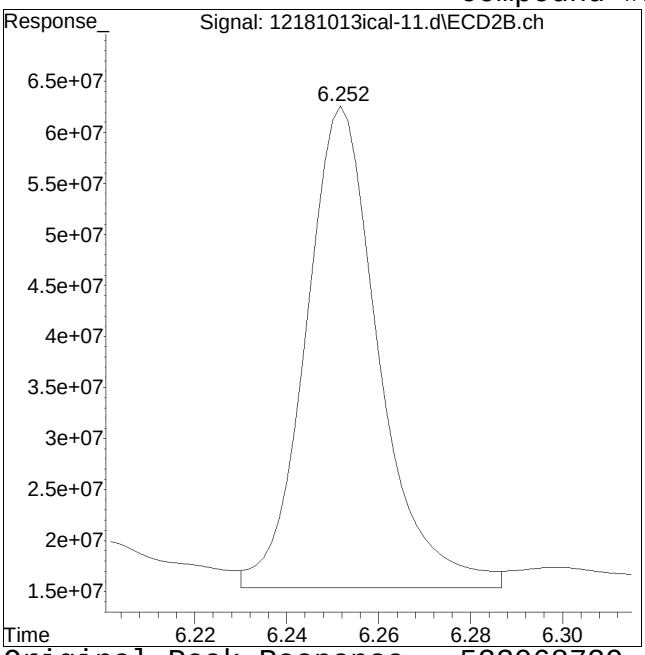
Original Peak Response = 317095185 Manual Peak Response = 247989298 M4
M4 = Poor automated baseline construction.

Manual Integration Report

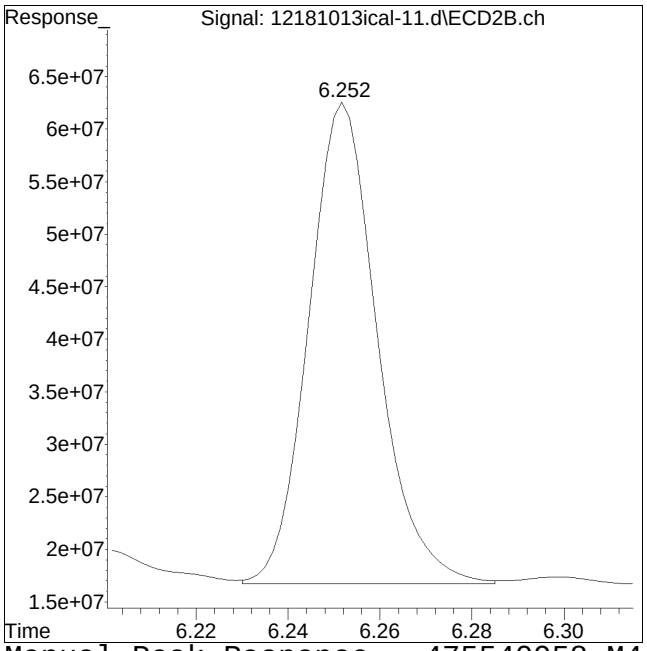
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-11.d
Date Inj'd : 10/13/2018 1:10 pm
Sample : il33262,42e,,8736

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:04 am

Compound #100: 1262-4 #2



Original Peak Response = 523068729



Manual Peak Response = 475540958 M4

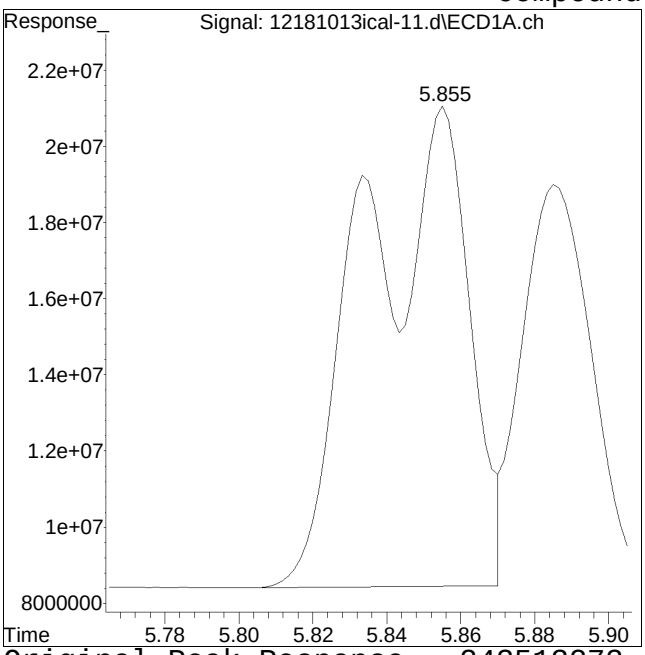
M4 = Poor automated baseline construction.

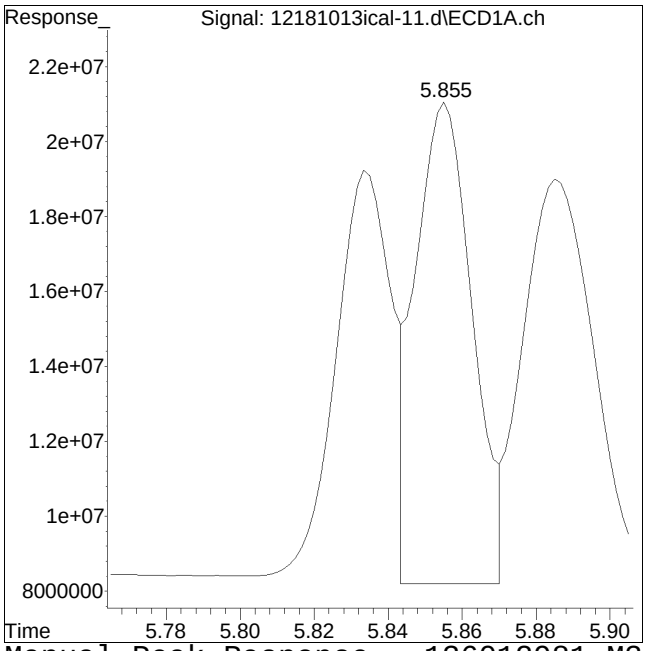
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-11.d
Date Inj'd : 10/13/2018 1:10 pm
Sample : il33262,42e,,8736

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:04 am

Compound #50: 1262-5





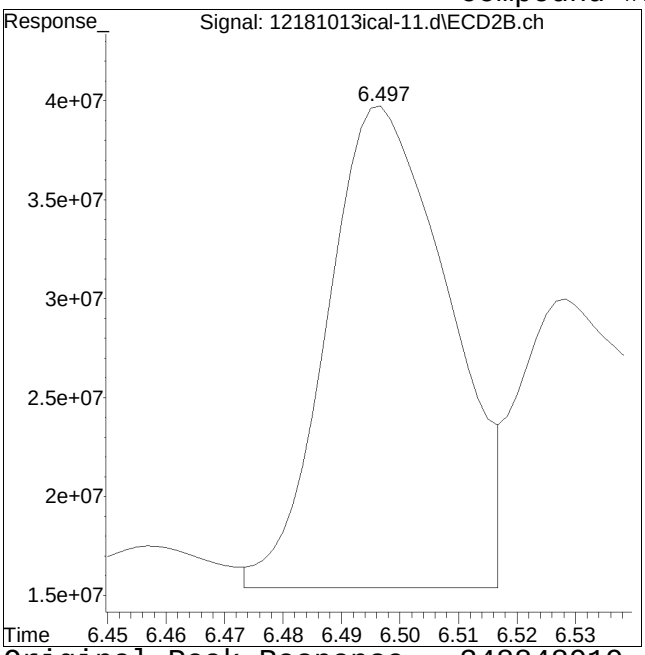
Original Peak Response = 243513273 Manual Peak Response = 136012981 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

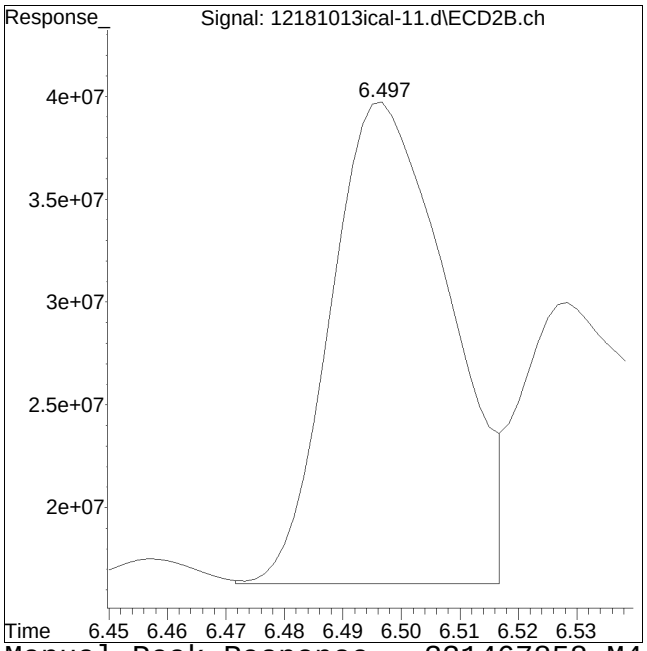
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-11.d
Date Inj'd : 10/13/2018 1:10 pm
Sample : il33262,42e,,8736

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:04 am

Compound #101: 1262-5 #2





Original Peak Response = 348848919 Manual Peak Response = 331467858 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-12.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 1:22 pm
Operator : Pest12:kb
Sample : il43262,42e,,8737
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 10:56:00 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 10:50:27 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	2.069	2.224	779.9E6	1176.1E6	250.000M4	250.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	500.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	500.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-12.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 1:22 pm
Operator : Pest12:kb
Sample : il43262,42e,,8737
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 10:56:00 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 10:50:27 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-12.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 1:22 pm
Operator : Pest12:kb
Sample : il43262,42e,,8737
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 10:56:00 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 10:50:27 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	2.779	3.231	148.1E6	254.1E6	NoCal M4	NoCal
42) l5	1232-2	3.023	3.558	143.5E6	256.4E6	NoCal M4	NoCal
43) l5	1232-3	3.366	3.952	294.0E6	495.7E6	NoCal M4	NoCal M1
44) l5	1232-4	3.467	4.067	123.0E6	190.6E6	NoCal M4	NoCal
45) l5	1232-5	4.126	4.751	85045317	146.5E6	NoCal M3	NoCal M4
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	4.952	5.564	375.6E6	489.1E6	NoCal	NoCal M4
47) l8	1262-2	5.240	5.882	456.3E6	642.4E6	NoCal	NoCal M4
48) l8	1262-3	5.419	6.090	401.8E6	555.9E6	NoCal	NoCal M4
49) l8	1262-4	5.636	6.251	821.4E6	1079.5E6	NoCal	NoCal M4
50) l8	1262-5	5.854	6.495	301.6E6	764.2E6	NoCal M3	NoCal M4
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

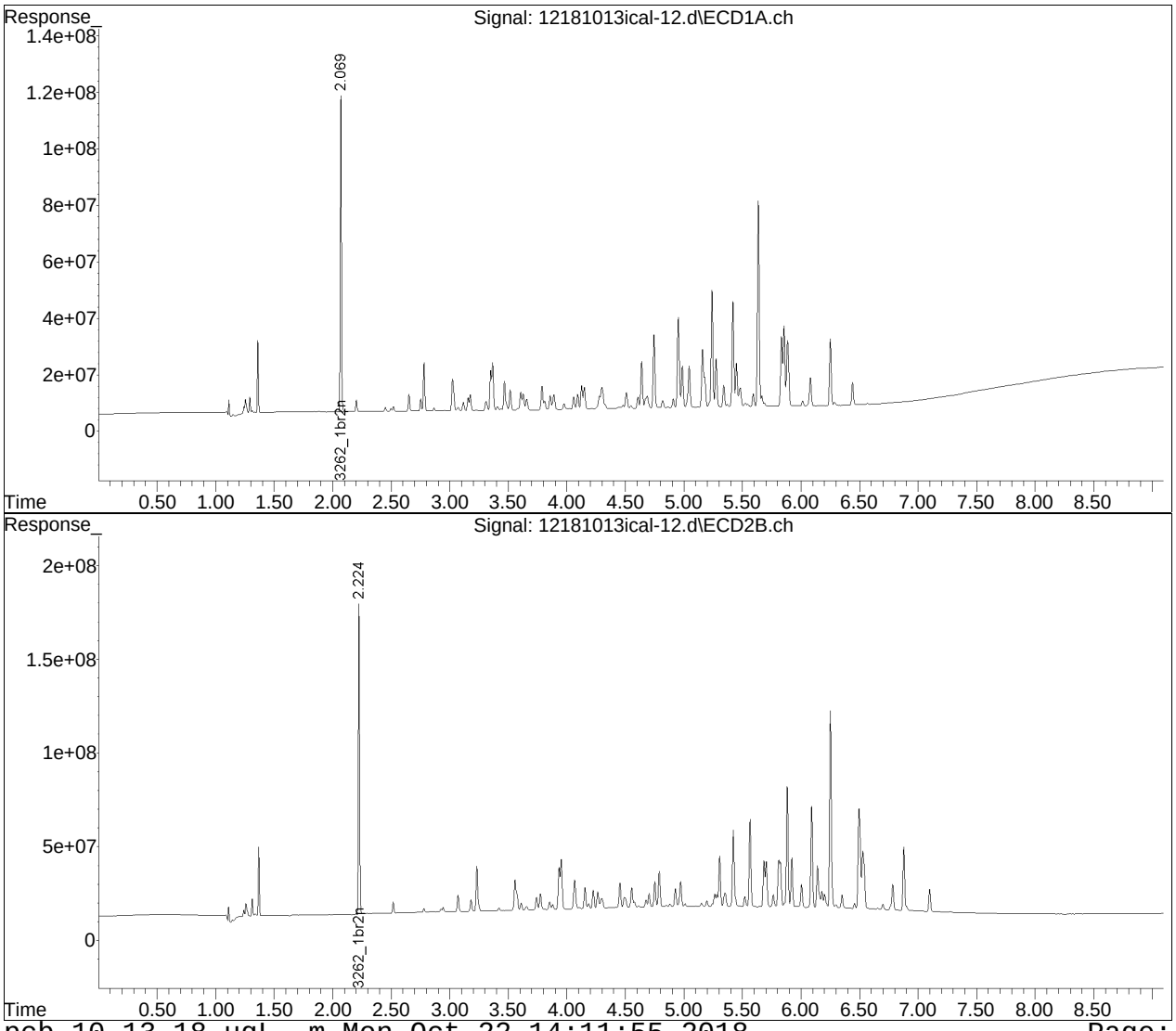
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-12.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 1:22 pm
Operator : Pest12:kb
Sample : il43262,42e,,8737
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 10:56:00 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 10:50:27 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

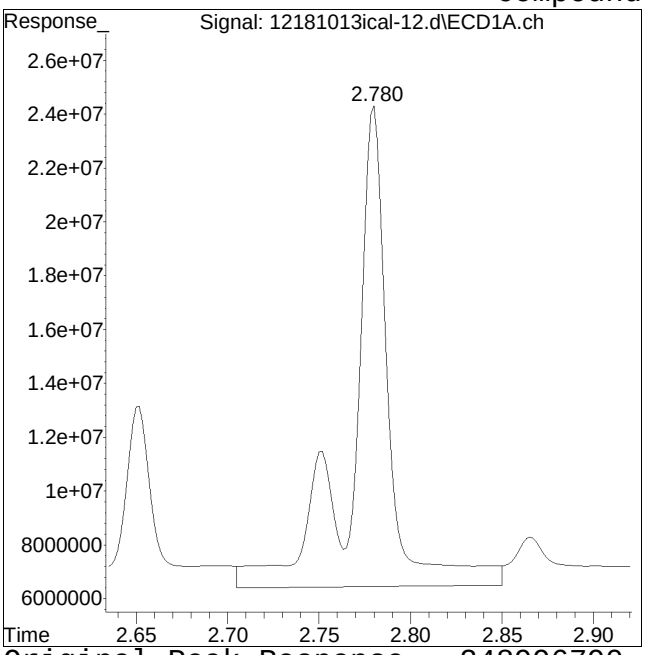


Manual Integration Report

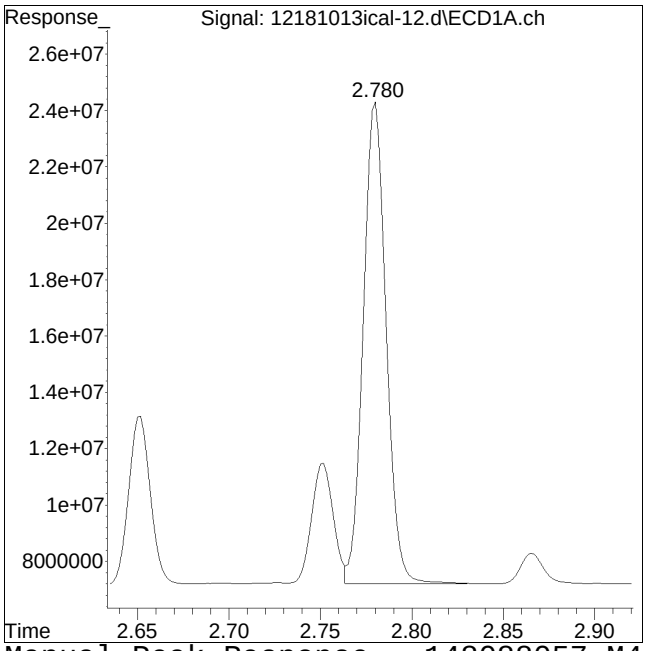
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-12.d
Date Inj'd : 10/13/2018 1:22 pm
Sample : il43262,42e,,8737

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:50 am

Compound #41: 1232-1



Original Peak Response = 248996790



Manual Peak Response = 148088057 M4

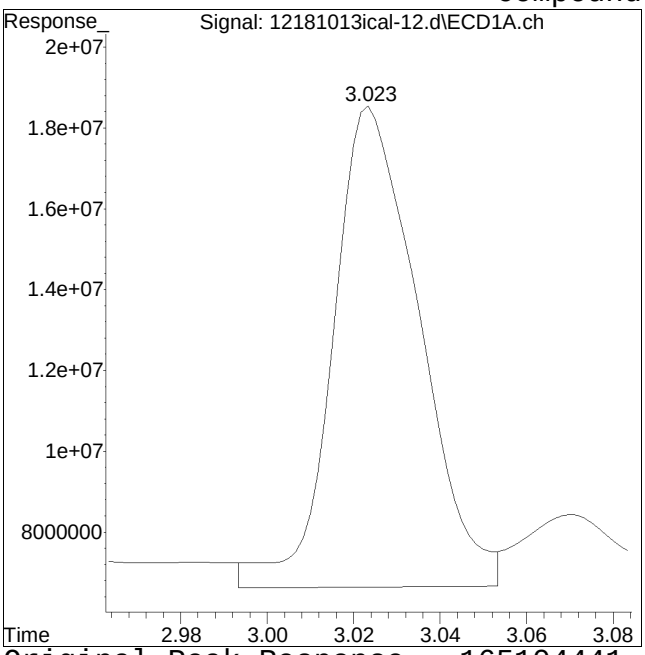
M4 = Poor automated baseline construction.

Manual Integration Report

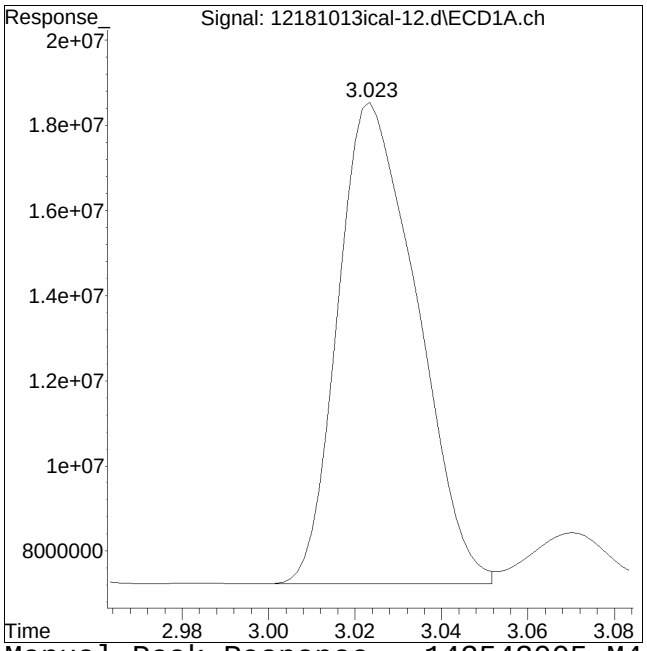
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-12.d
Date Inj'd : 10/13/2018 1:22 pm
Sample : il43262,42e,,8737

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:50 am

Compound #42: 1232-2



Original Peak Response = 165104441



Manual Peak Response = 143543005 M4

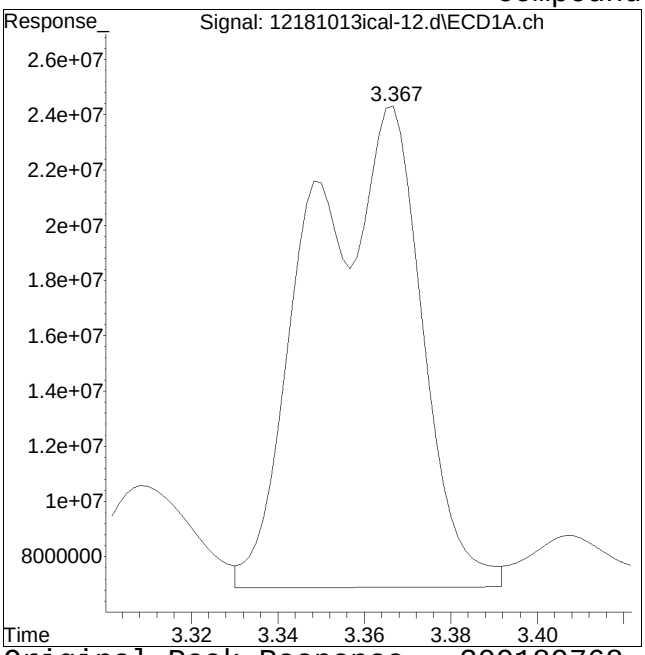
M4 = Poor automated baseline construction.

Manual Integration Report

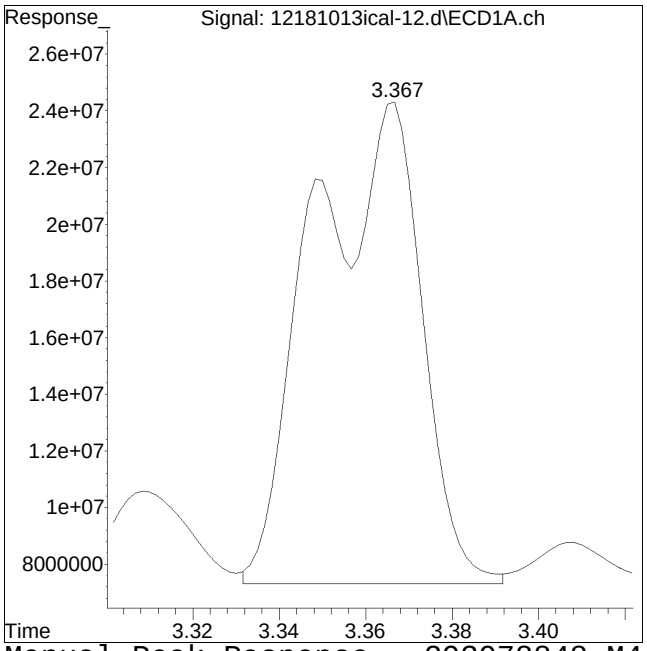
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-12.d
Date Inj'd : 10/13/2018 1:22 pm
Sample : il43262,42e,,8737

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:50 am

Compound #43: 1232-3



Original Peak Response = 309189768



Manual Peak Response = 293978848 M4

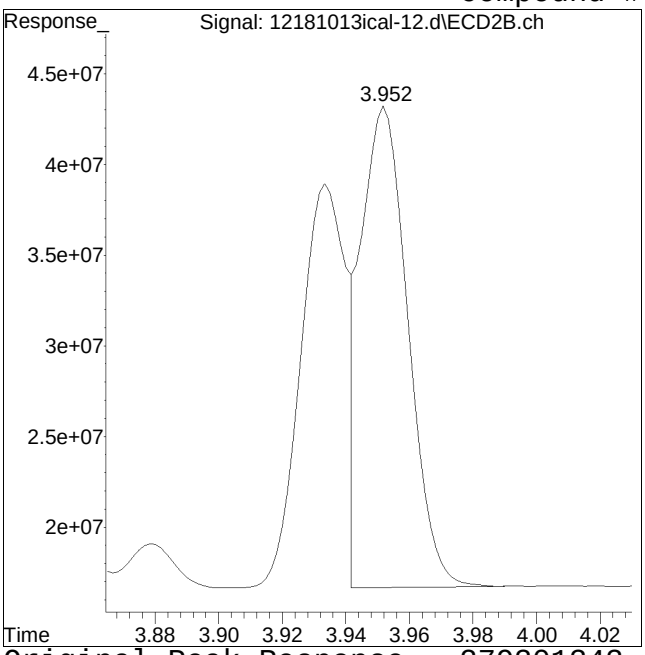
M4 = Poor automated baseline construction.

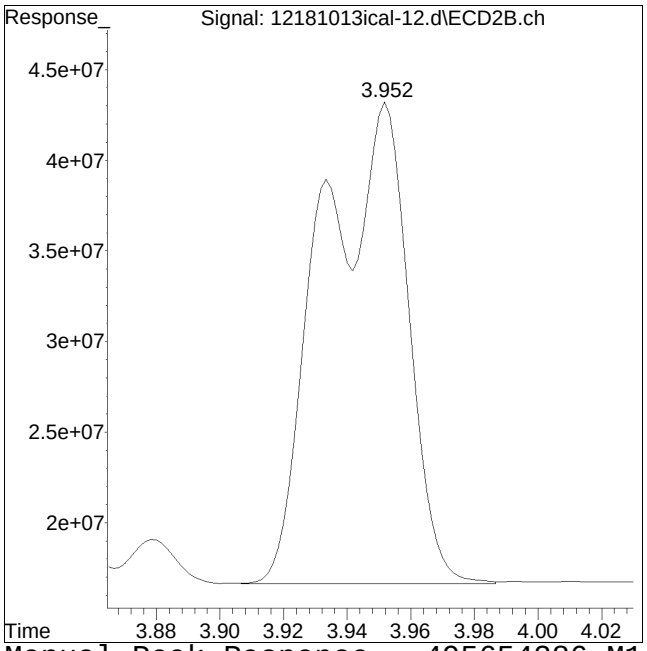
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-12.d
Date Inj'd : 10/13/2018 1:22 pm
Sample : il43262,42e,,8737

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:50 am

Compound #94: 1232-3 #2





Original Peak Response = 279301343 Manual Peak Response = 495654286 M1

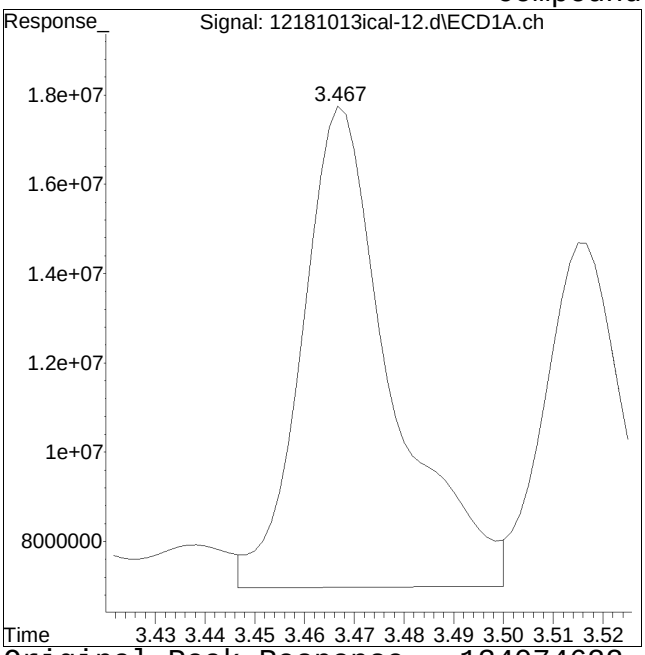
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

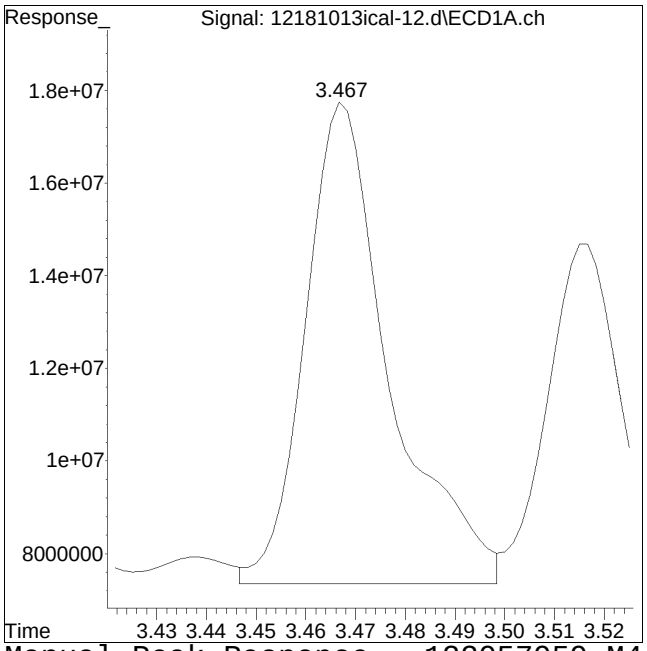
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-12.d
Date Inj'd : 10/13/2018 1:22 pm
Sample : il43262,42e,,8737

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:50 am

Compound #44: 1232-4





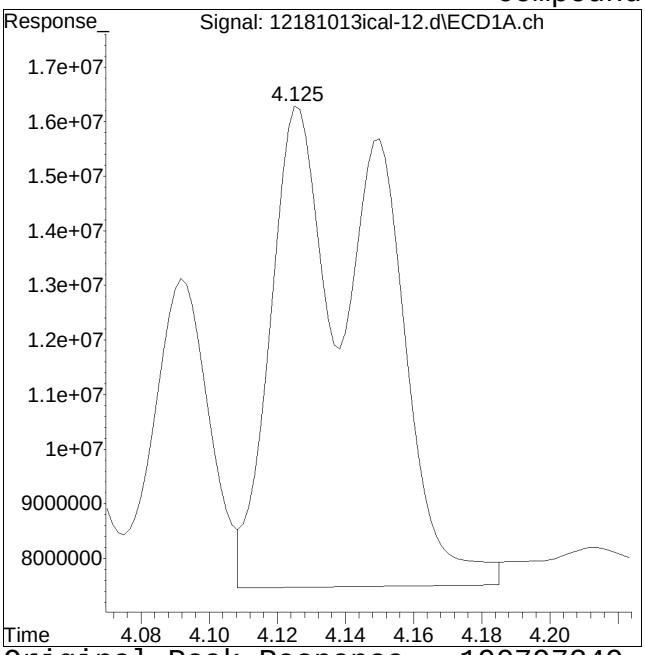
Original Peak Response = 134074622 Manual Peak Response = 122957959 M4
M4 = Poor automated baseline construction.

Manual Integration Report

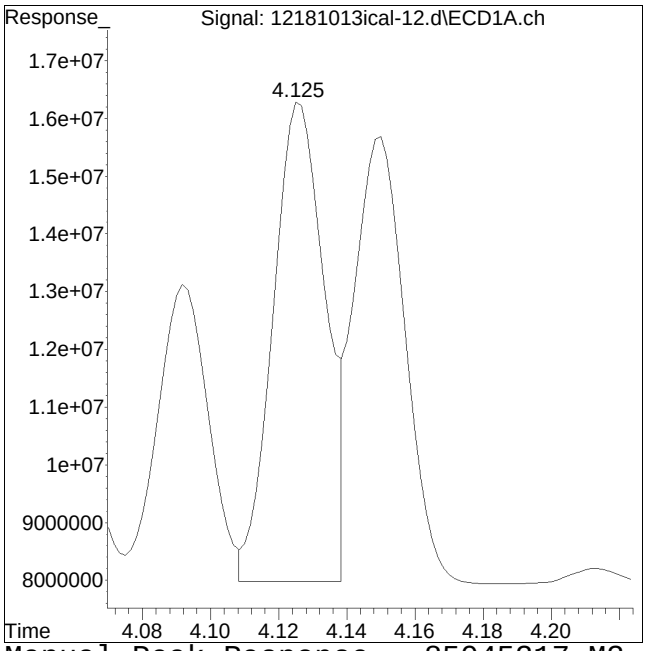
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-12.d
Date Inj'd : 10/13/2018 1:22 pm
Sample : il43262,42e,,8737

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:50 am

Compound #45: 1232-5



Original Peak Response = 190797249



Manual Peak Response = 85045317 M3

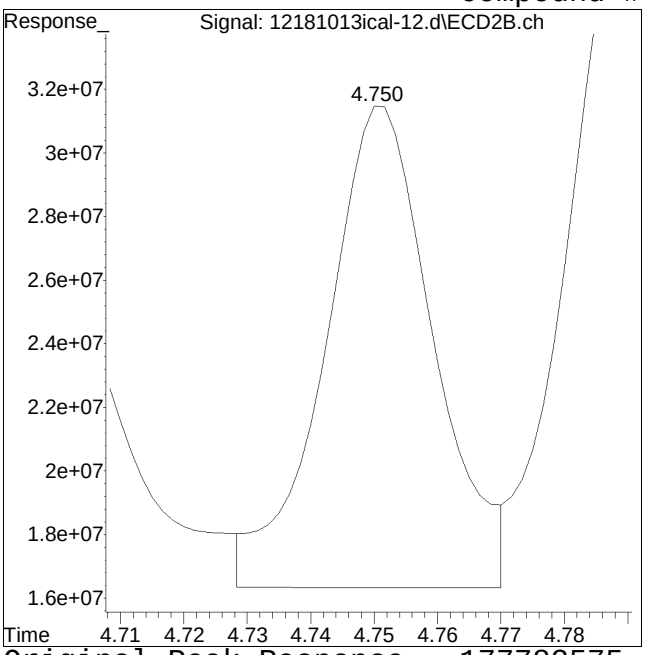
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

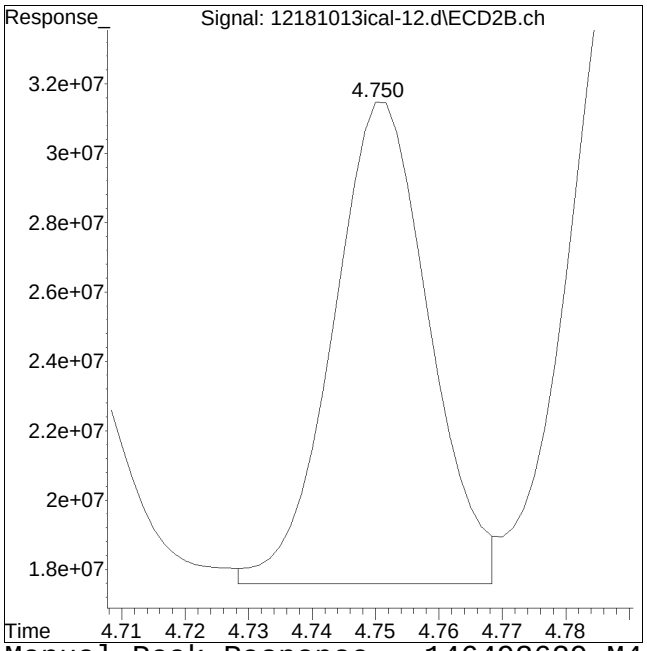
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-12.d
Date Inj'd : 10/13/2018 1:22 pm
Sample : il43262,42e,,8737

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:50 am

Compound #96: 1232-5 #2



Original Peak Response = 177782575



Manual Peak Response = 146493629 M4

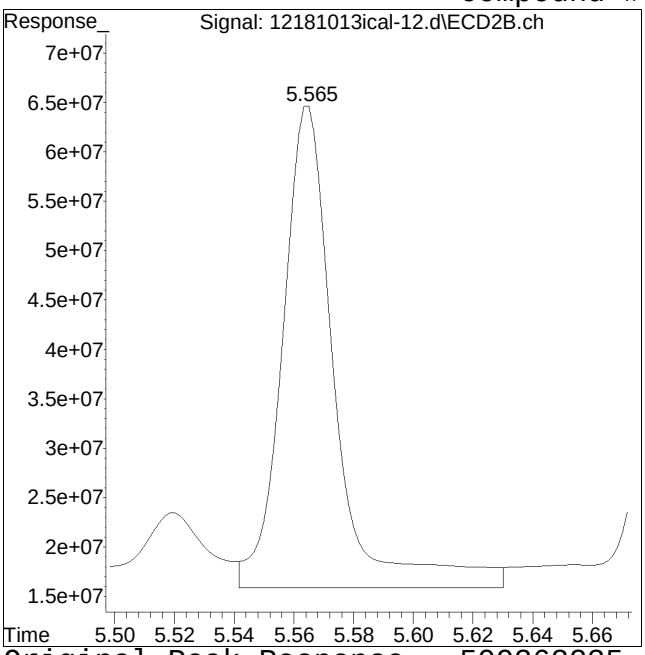
M4 = Poor automated baseline construction.

Manual Integration Report

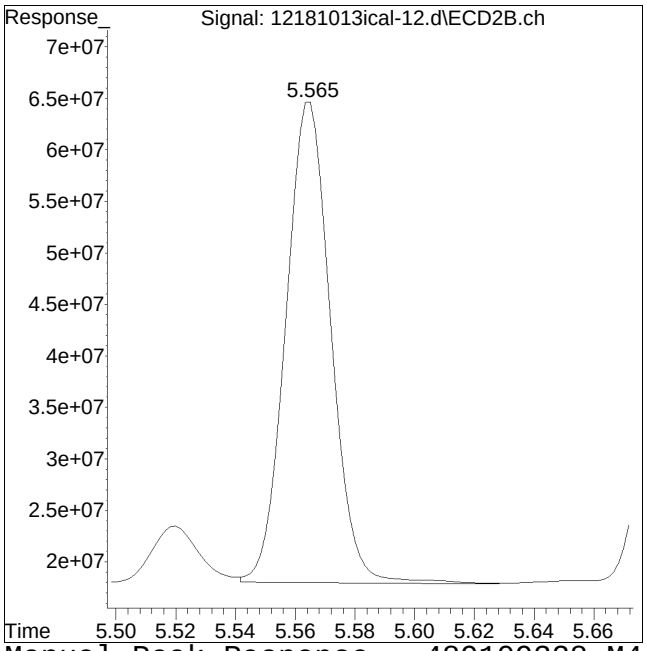
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-12.d
Date Inj'd : 10/13/2018 1:22 pm
Sample : il43262,42e,,8737

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:50 am

Compound #97: 1262-1 #2



Original Peak Response = 599362235



Manual Peak Response = 489109328 M4

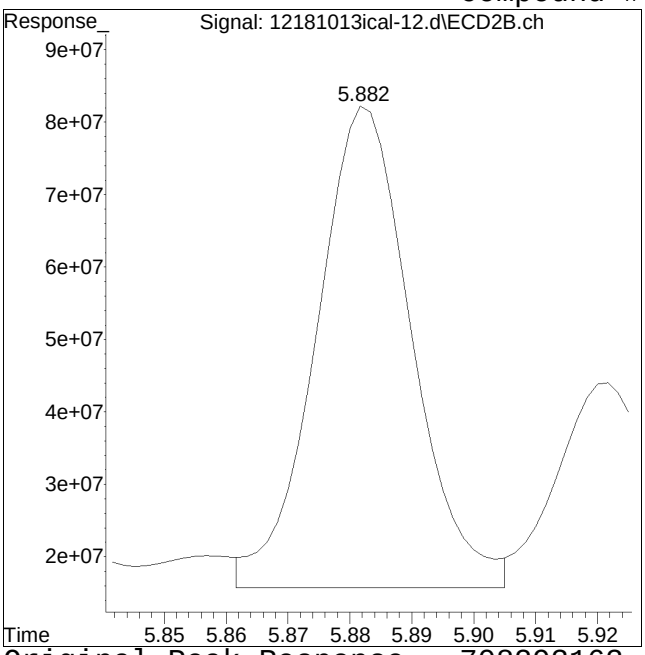
M4 = Poor automated baseline construction.

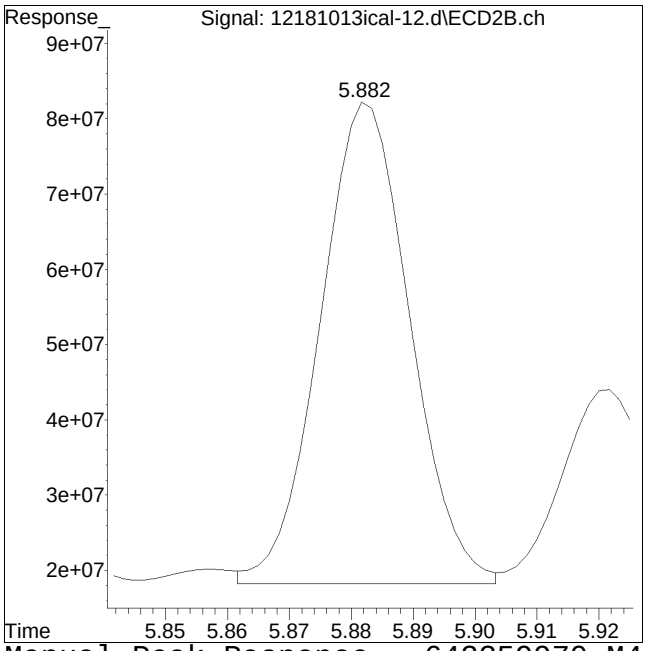
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-12.d
Date Inj'd : 10/13/2018 1:22 pm
Sample : il43262,42e,,8737

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:50 am

Compound #98: 1262-2 #2





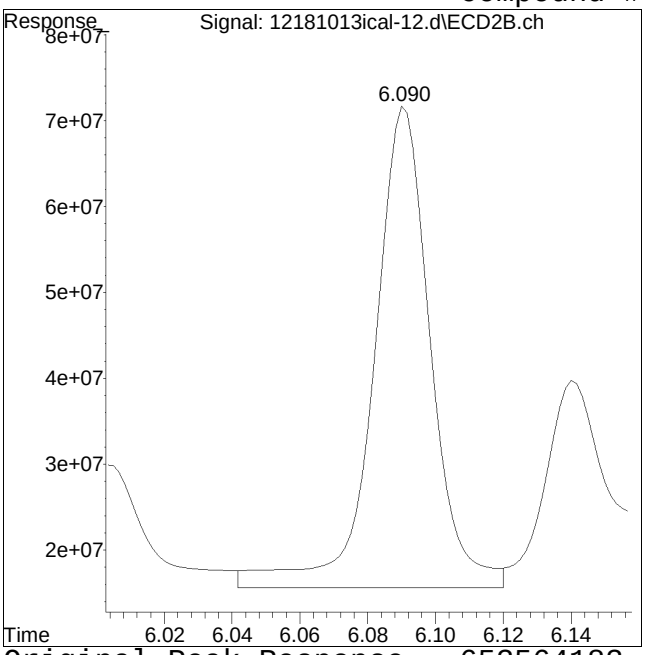
Original Peak Response = 708293163 Manual Peak Response = 642359970 M4
M4 = Poor automated baseline construction.

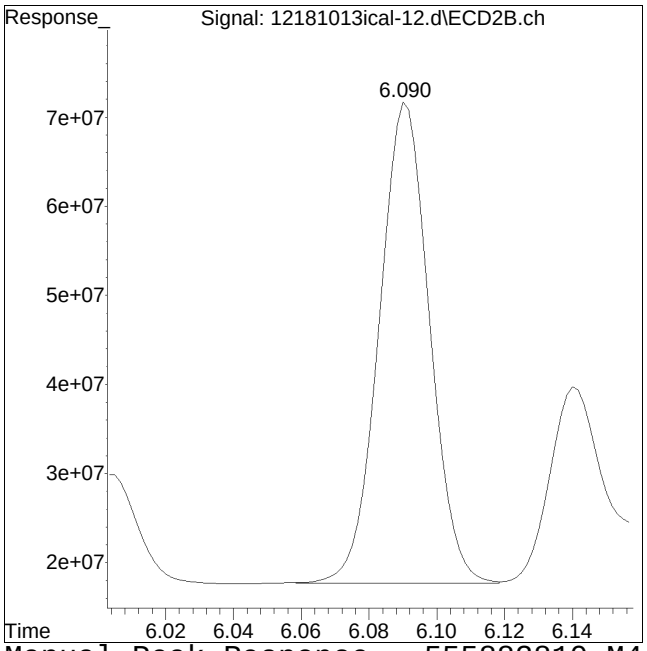
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-12.d
Date Inj'd : 10/13/2018 1:22 pm
Sample : il43262,42e,,8737

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:50 am

Compound #99: 1262-3 #2





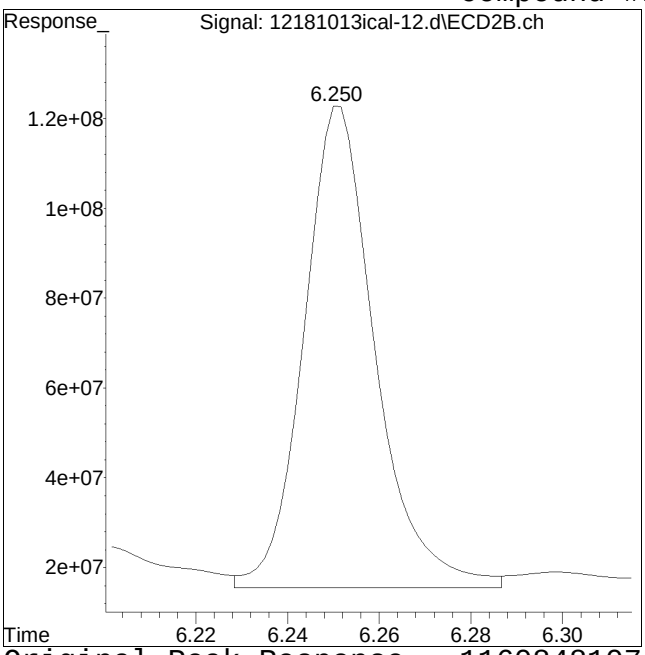
Original Peak Response = 653564183 Manual Peak Response = 555883810 M4
M4 = Poor automated baseline construction.

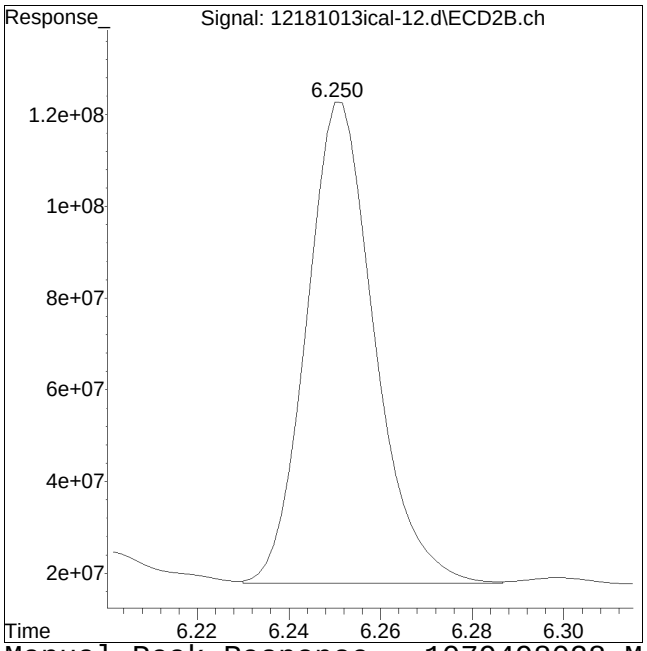
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-12.d
Date Inj'd : 10/13/2018 1:22 pm
Sample : il43262,42e,,8737

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:50 am

Compound #100: 1262-4 #2





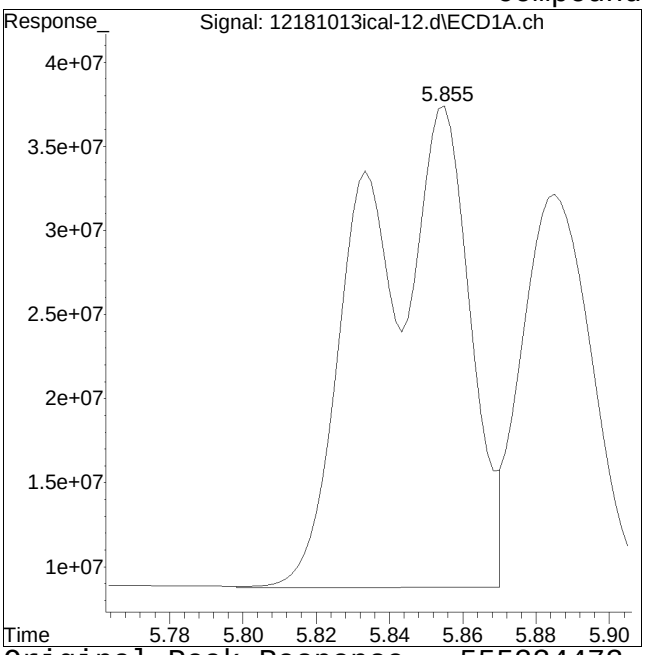
Original Peak Response = 1160848107 Manual Peak Response = 1079498028 M4
M4 = Poor automated baseline construction.

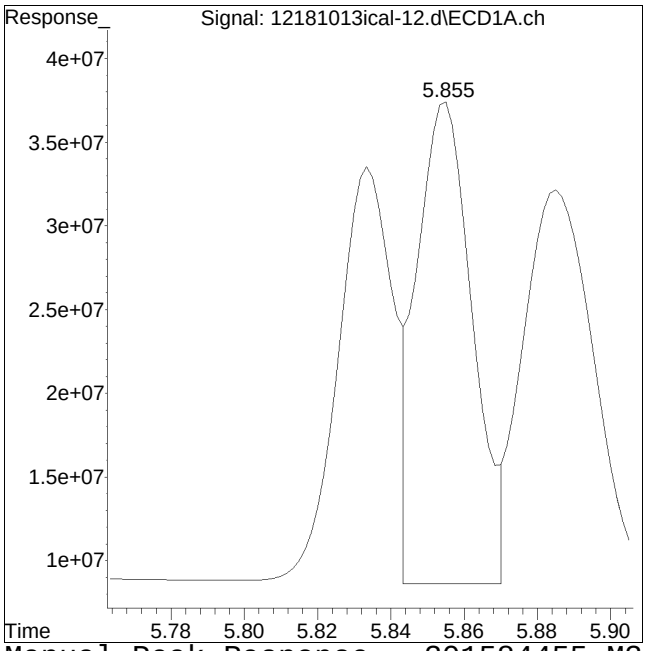
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-12.d
Date Inj'd : 10/13/2018 1:22 pm
Sample : il43262,42e,,8737

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:50 am

Compound #50: 1262-5





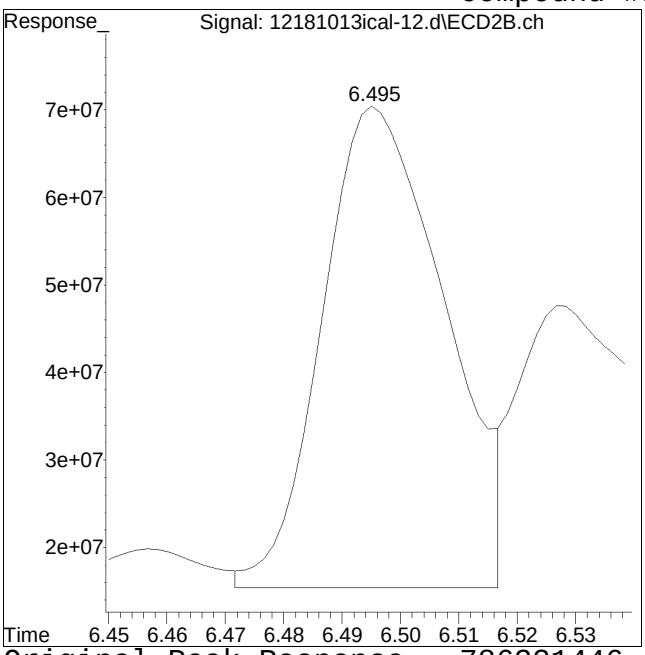
Original Peak Response = 555334473 Manual Peak Response = 301584455 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

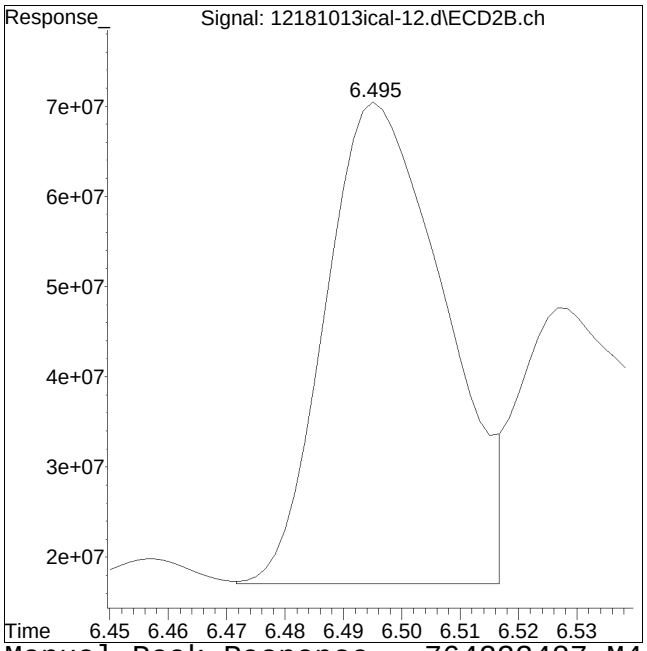
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-12.d
Date Inj'd : 10/13/2018 1:22 pm
Sample : il43262,42e,,8737

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:50 am

Compound #101: 1262-5 #2



Original Peak Response = 786331446



Manual Peak Response = 764233487 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-13.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 1:34 pm
Operator : Pest12:kb
Sample : il53262,42e,,8738
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 10:59:57 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 10:56:18 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	2.069	2.224	772.2E6	1167.8E6	250.000M4	250.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	500.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	500.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-13.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 1:34 pm
Operator : Pest12:kb
Sample : il53262,42e,,8738
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 10:59:57 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 10:56:18 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-13.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 1:34 pm
Operator : Pest12:kb
Sample : il53262,42e,,8738
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 10:59:57 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 10:56:18 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	2.780	3.231	250.1E6	432.0E6	4264.082M4	4280.427
42) l5	1232-2	3.025	3.557	243.4E6	431.5E6	4282.173	4237.227M4
43) l5	1232-3	3.366	3.951	502.1E6	862.4E6	4312.233	4380.510M4
44) l5	1232-4	3.468	4.066	203.4E6	321.8E6	4176.208	4250.768M4
45) l5	1232-5	4.126	4.751	157.5E6	246.3E6	4675.076M3	4233.304M4
Sum	1232-1			1356.4E6	2293.9E6	21709.774	21382.236
Average	1232-1					4341.955	4276.447
46) l8	1262-1	4.952	5.564	630.5E6	842.3E6	4237.856	4335.921M4
47) l8	1262-2	5.241	5.883	773.0E6	1126.6E6	4277.454	4415.629M4
48) l8	1262-3	5.419	6.091	686.6E6	968.3E6	4314.312	4385.594M4
49) l8	1262-4	5.636	6.252	1411.9E6	1900.8E6	4340.104	4433.133M4
50) l8	1262-5	5.855	6.496	542.4E6	1283.2E6	4541.247M3	4227.377M4
Sum	1262-1			4044.3E6	6121.1E6	21710.972	21797.654
Average	1262-1					4342.194	4359.531

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			4044.3E6	6121.1E6	21710.972	21797.654
Average	1262-1					4342.194	4359.531

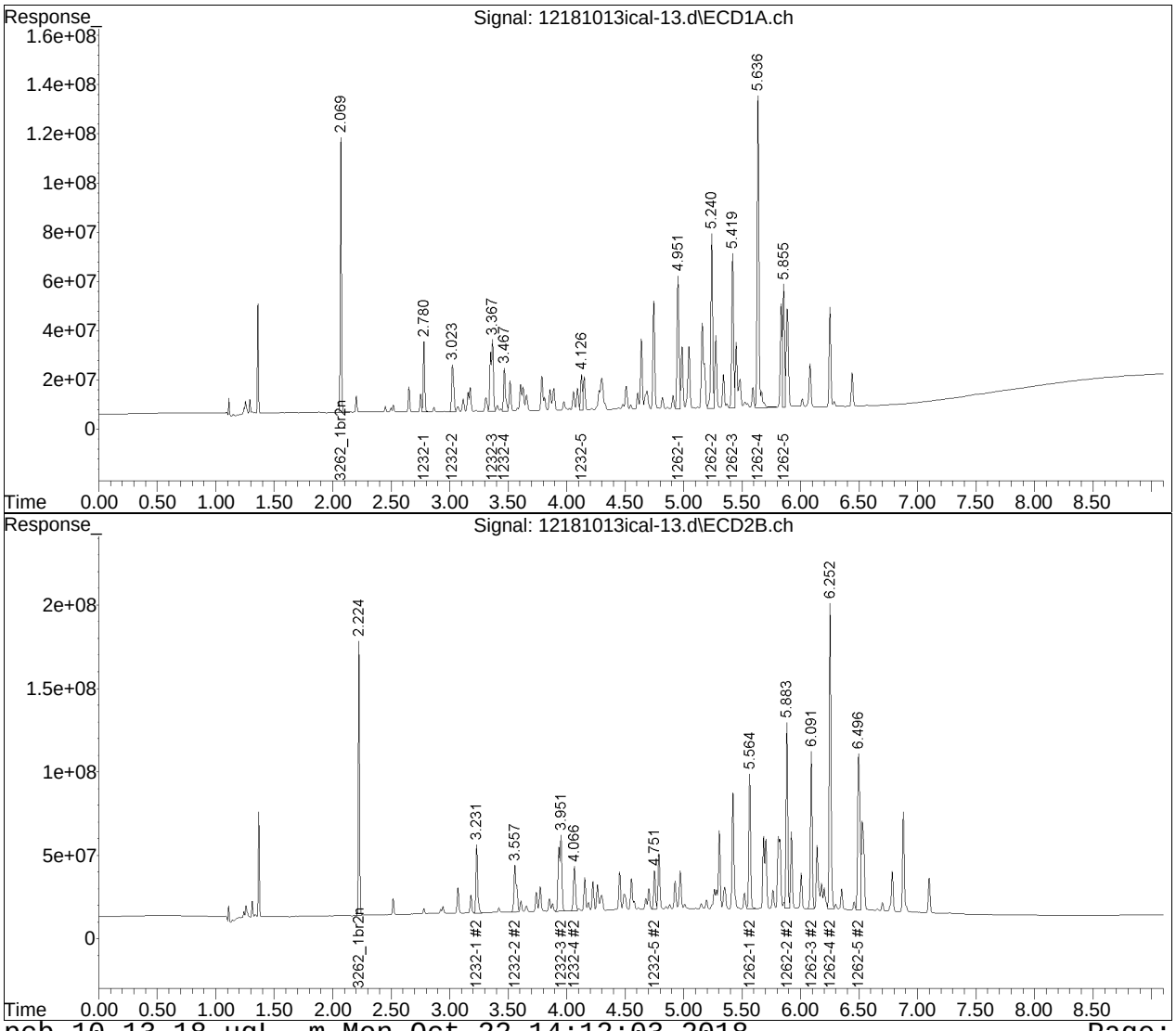
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-13.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 1:34 pm
Operator : Pest12:kb
Sample : il53262,42e,,8738
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 10:59:57 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 10:56:18 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

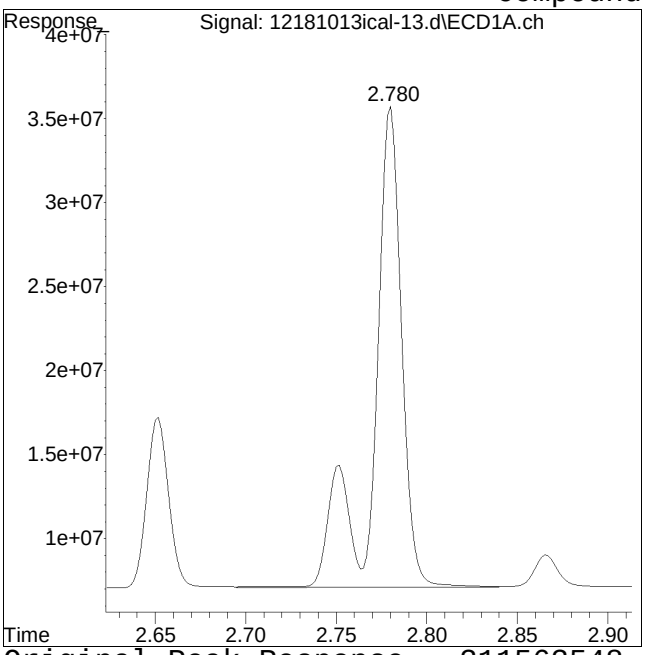


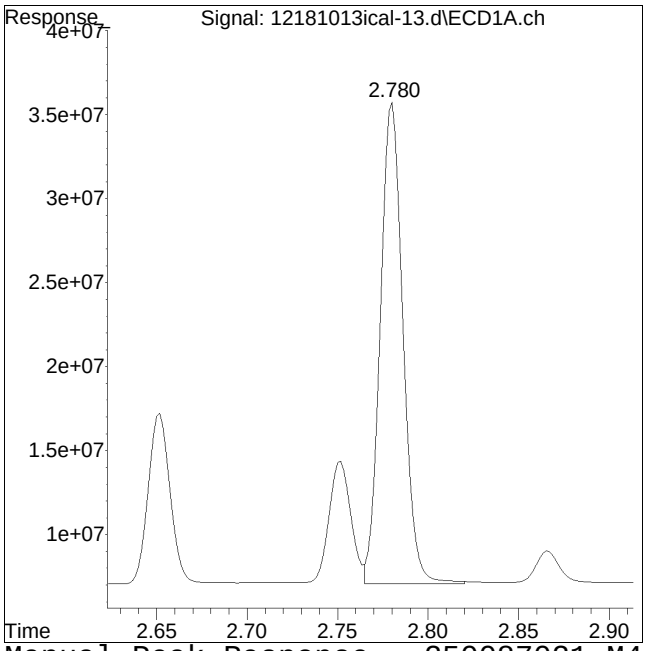
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-13.d
Date Inj'd : 10/13/2018 1:34 pm
Sample : il53262,42e,,8738

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:56 am

Compound #41: 1232-1





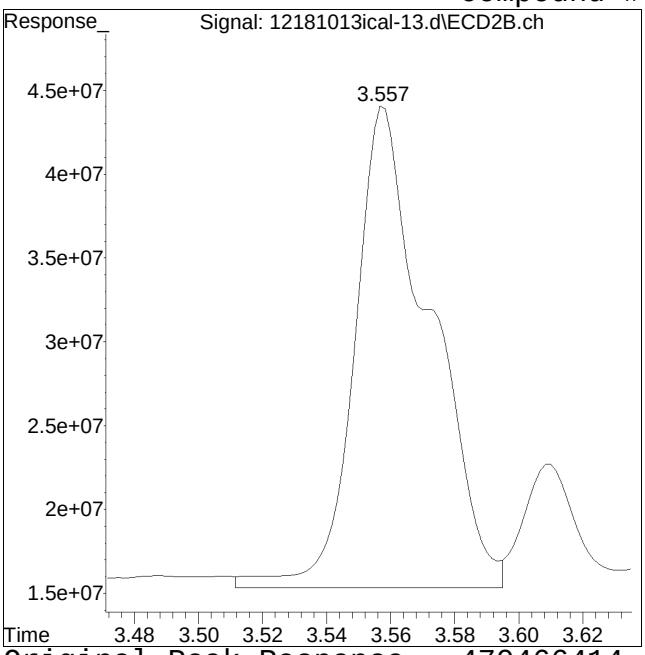
Original Peak Response = 311563548 Manual Peak Response = 250087021 M4
M4 = Poor automated baseline construction.

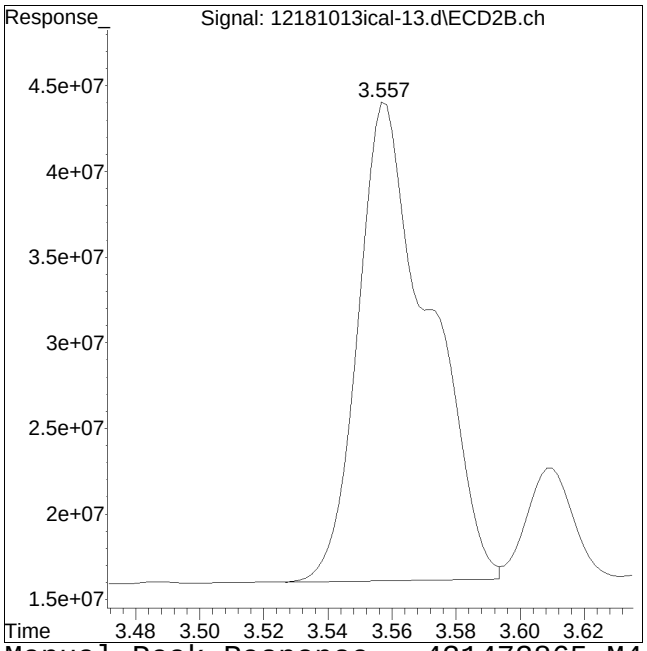
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-13.d
Date Inj'd : 10/13/2018 1:34 pm
Sample : il53262,42e,,8738

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:56 am

Compound #93: 1232-2 #2





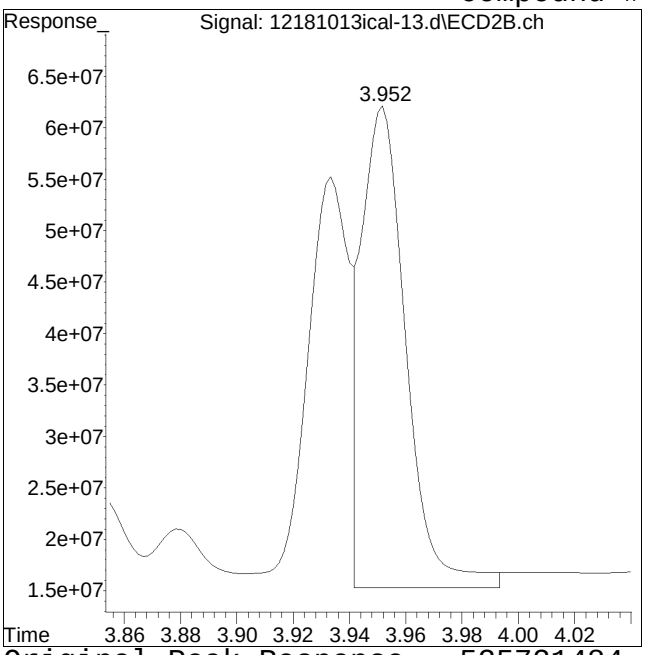
Original Peak Response = 470466414 Manual Peak Response = 431473865 M4
M4 = Poor automated baseline construction.

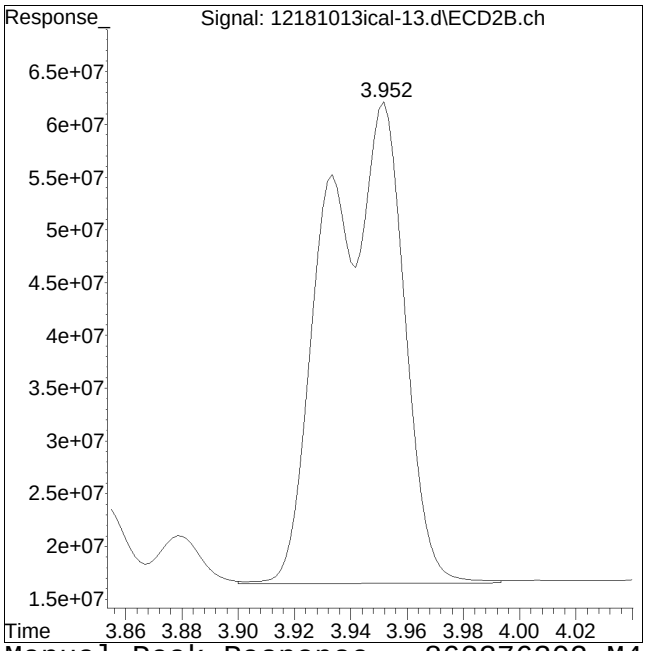
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-13.d
Date Inj'd : 10/13/2018 1:34 pm
Sample : il53262,42e,,8738

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:56 am

Compound #94: 1232-3 #2





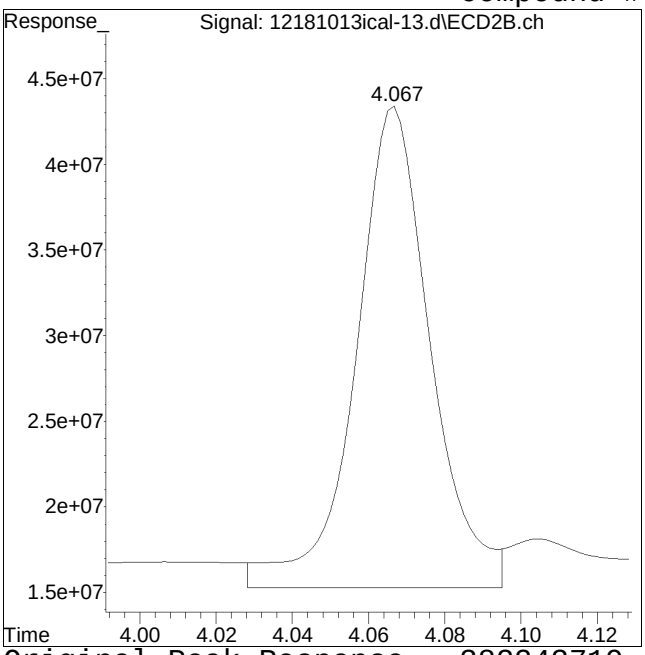
Original Peak Response = 525721484 Manual Peak Response = 862376302 M4
M4 = Poor automated baseline construction.

Manual Integration Report

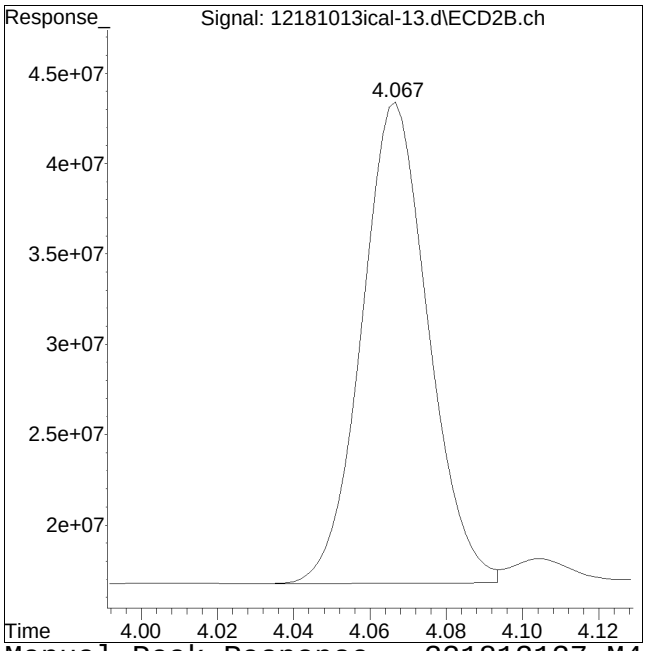
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-13.d
Date Inj'd : 10/13/2018 1:34 pm
Sample : il53262,42e,,8738

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:56 am

Compound #95: 1232-4 #2



Original Peak Response = 382243719



Manual Peak Response = 321813137 M4

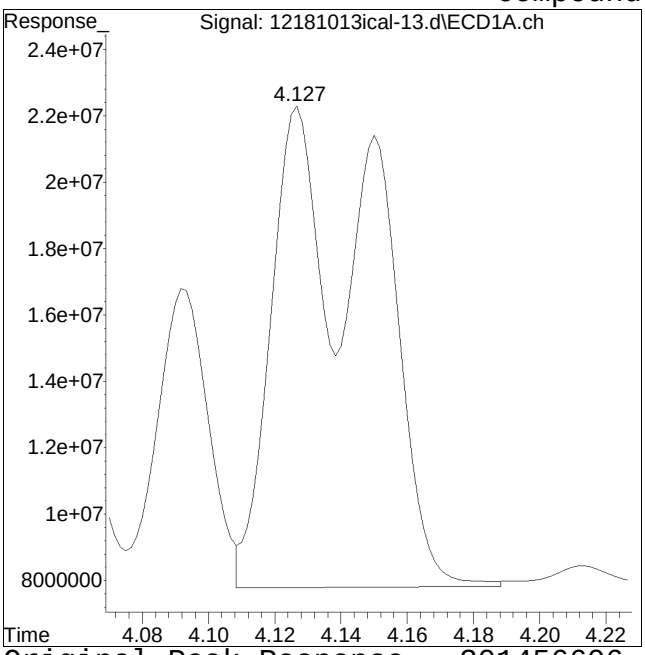
M4 = Poor automated baseline construction.

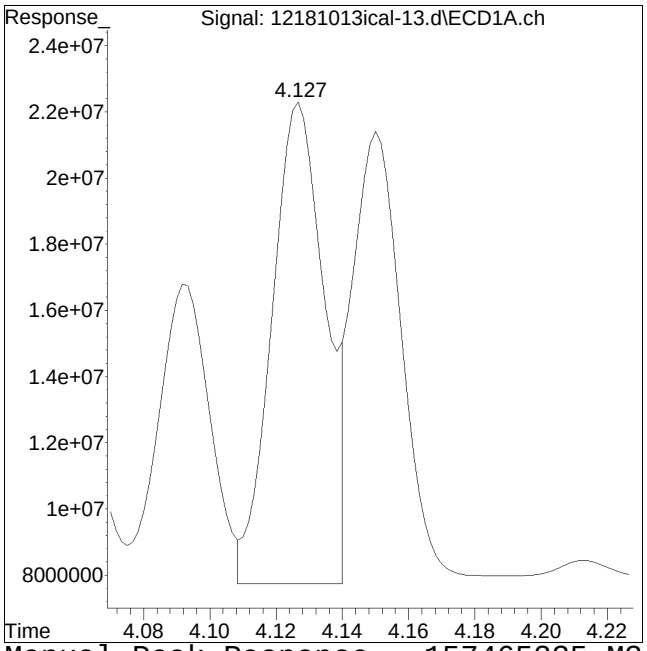
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-13.d
Date Inj'd : 10/13/2018 1:34 pm
Sample : il53262,42e,,8738

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:56 am

Compound #45: 1232-5





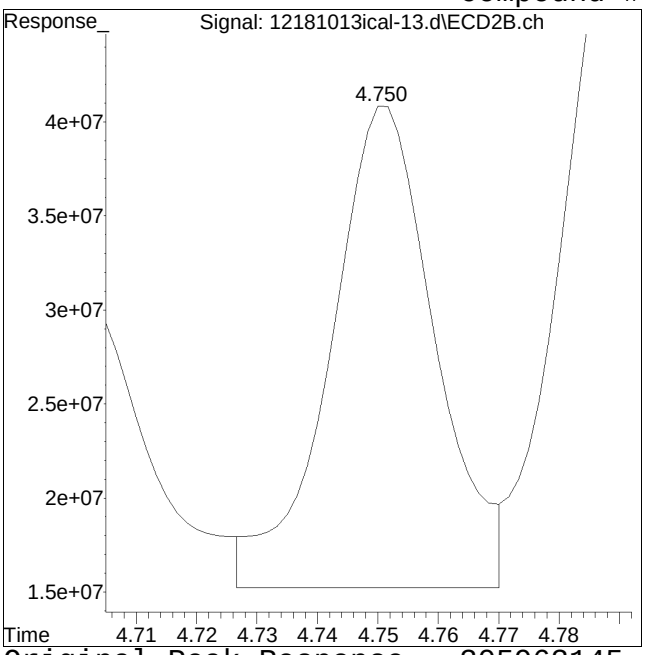
Original Peak Response = 301456606 Manual Peak Response = 157465235 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

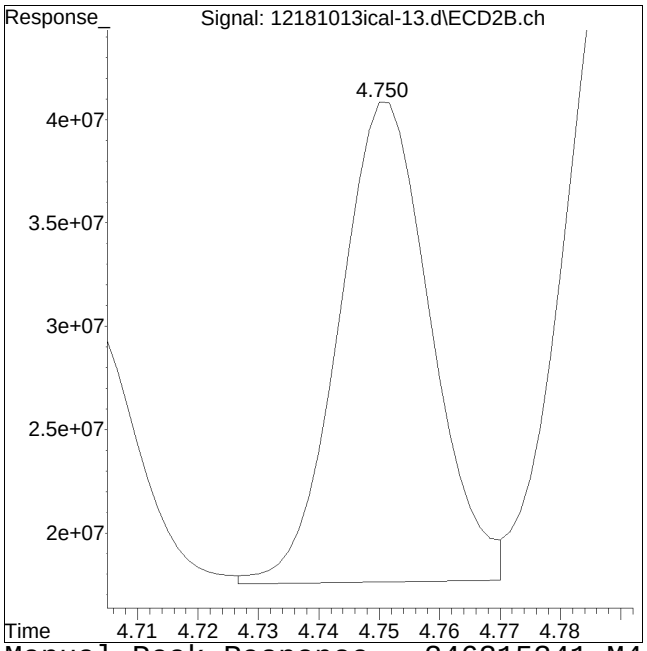
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-13.d
Date Inj'd : 10/13/2018 1:34 pm
Sample : il53262,42e,,8738

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:56 am

Compound #96: 1232-5 #2



Original Peak Response = 305963145



Manual Peak Response = 246315341 M4

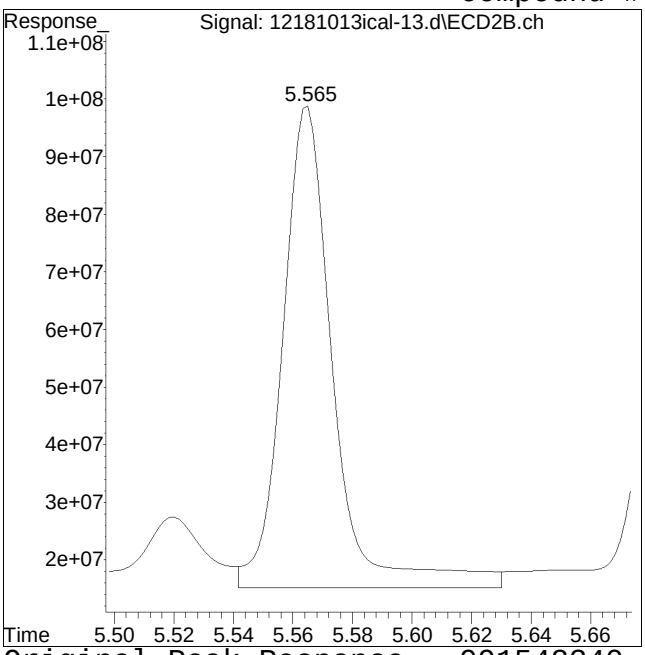
M4 = Poor automated baseline construction.

Manual Integration Report

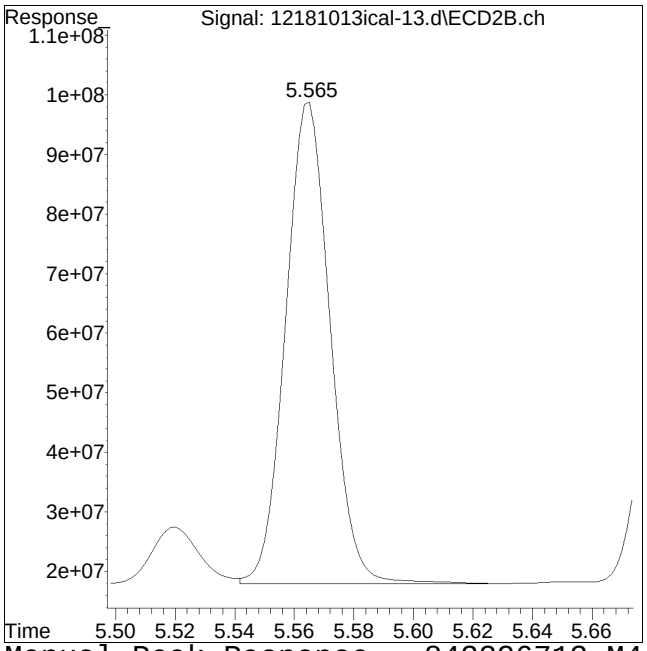
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-13.d
Date Inj'd : 10/13/2018 1:34 pm
Sample : il53262,42e,,8738

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:56 am

Compound #97: 1262-1 #2



Original Peak Response = 991542340



Manual Peak Response = 842326713 M4

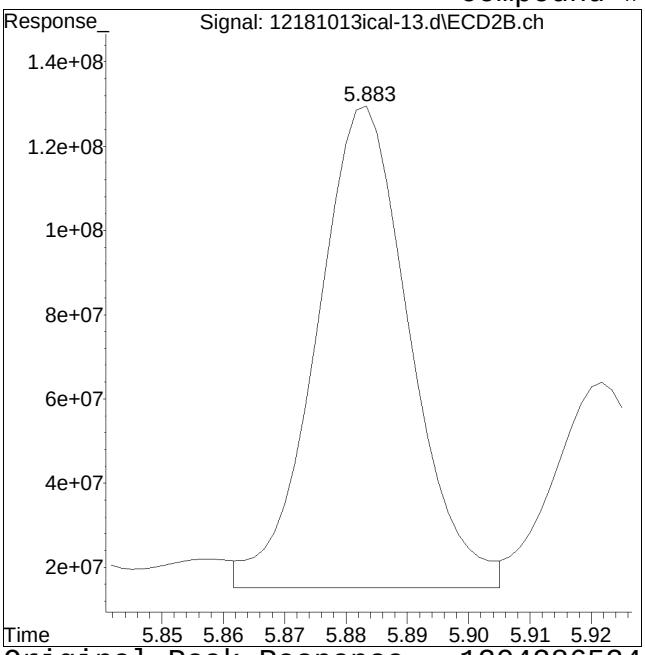
M4 = Poor automated baseline construction.

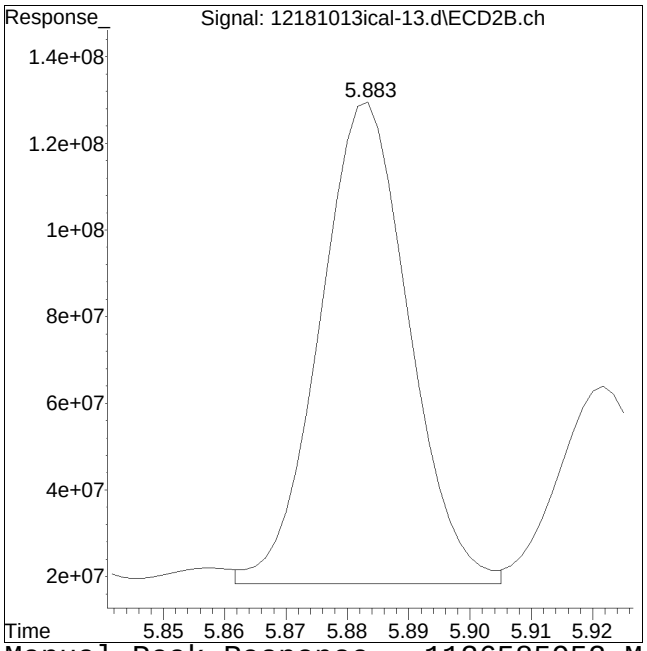
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-13.d
Date Inj'd : 10/13/2018 1:34 pm
Sample : il53262,42e,,8738

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:56 am

Compound #98: 1262-2 #2





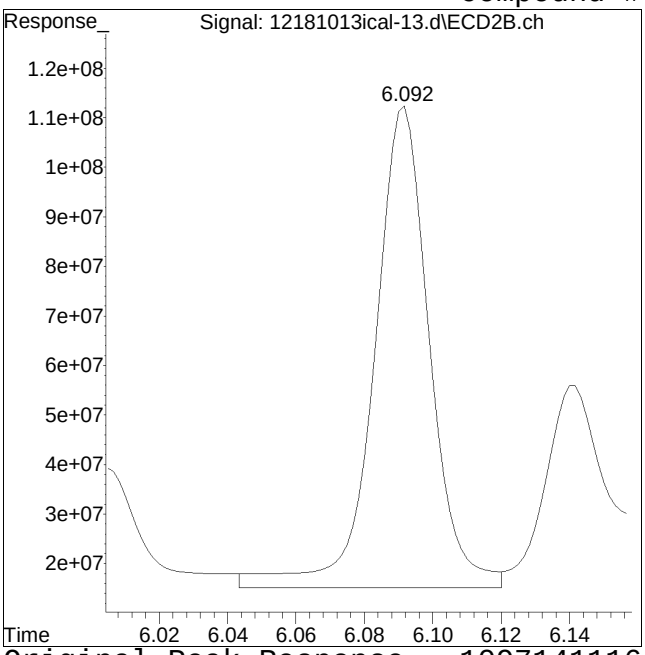
Original Peak Response = 1204286524 Manual Peak Response = 1126585952 M4
M4 = Poor automated baseline construction.

Manual Integration Report

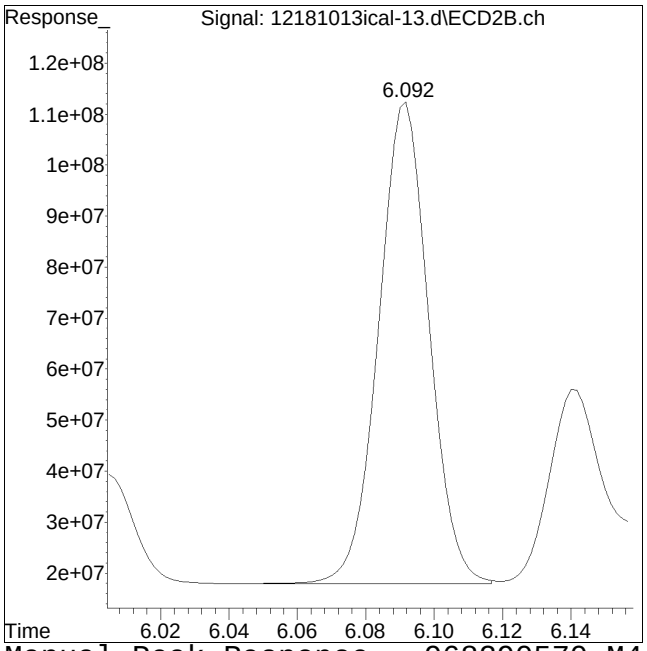
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-13.d
Date Inj'd : 10/13/2018 1:34 pm
Sample : il53262,42e,,8738

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:56 am

Compound #99: 1262-3 #2



Original Peak Response = 1097141116



Manual Peak Response = 968290570 M4

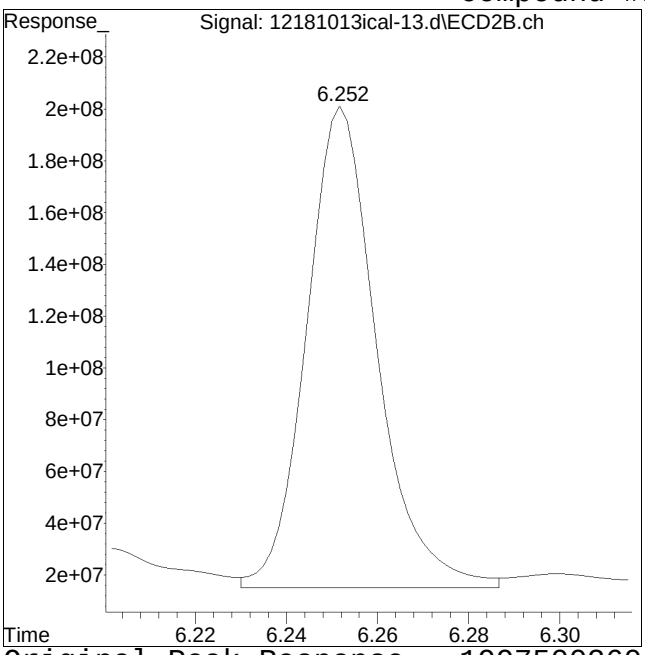
M4 = Poor automated baseline construction.

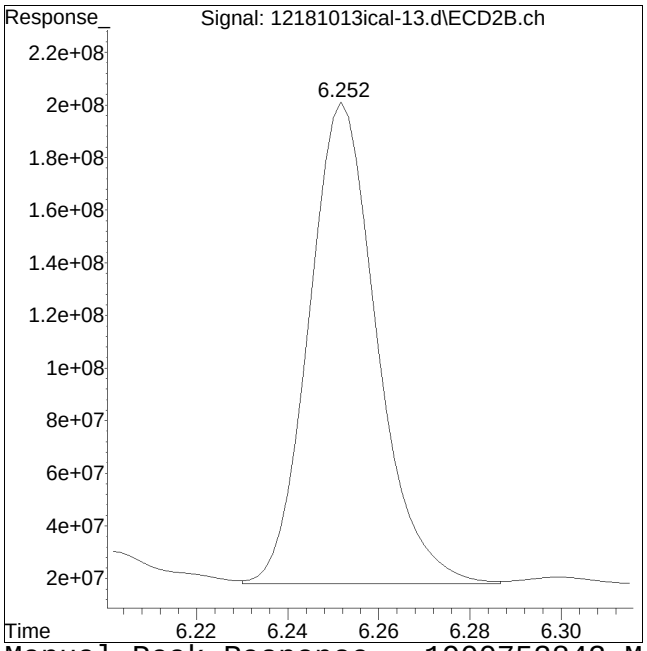
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-13.d
Date Inj'd : 10/13/2018 1:34 pm
Sample : il53262,42e,,8738

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:56 am

Compound #100: 1262-4 #2





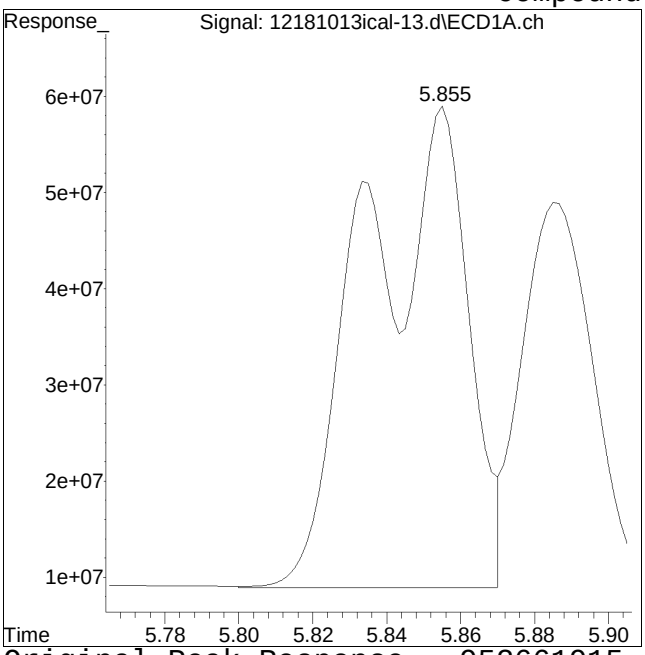
Original Peak Response = 1997500260 Manual Peak Response = 1900753843 M4
M4 = Poor automated baseline construction.

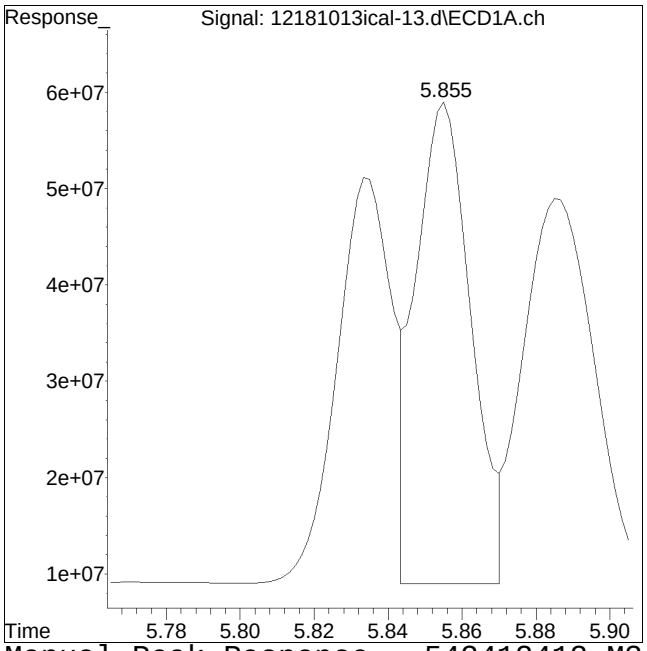
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-13.d
Date Inj'd : 10/13/2018 1:34 pm
Sample : il53262,42e,,8738

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:56 am

Compound #50: 1262-5





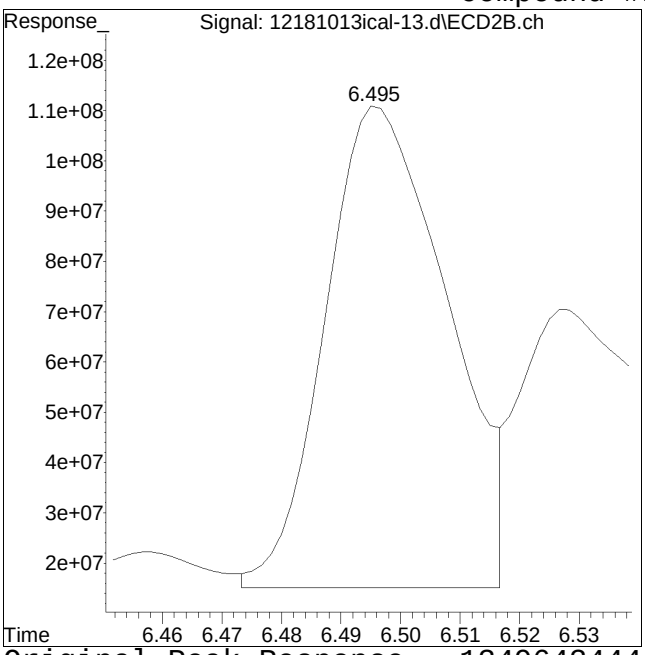
Original Peak Response = 952661915 Manual Peak Response = 542412412 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

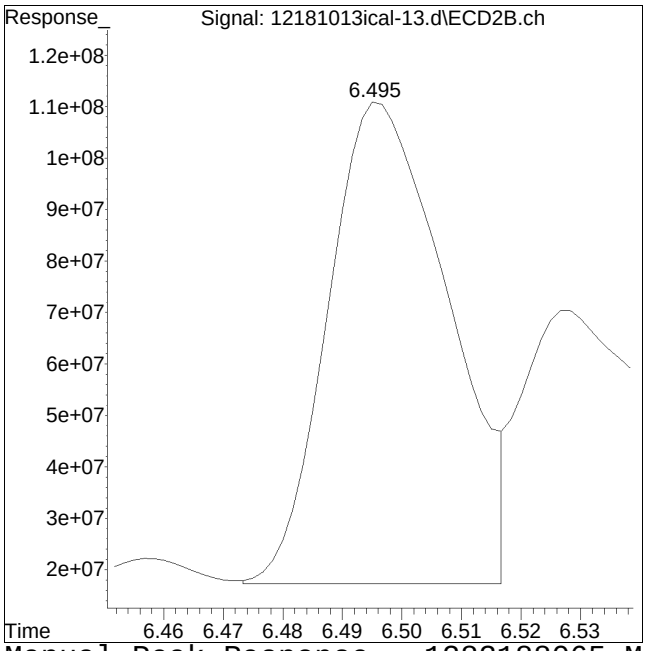
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-13.d
Date Inj'd : 10/13/2018 1:34 pm
Sample : il53262,42e,,8738

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:56 am

Compound #101: 1262-5 #2





Original Peak Response = 1349643444 Manual Peak Response = 1283188065 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-14.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 1:47 pm
Operator : Pest12:kb
Sample : il63262,42e,,8739
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 11:04:08 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 11:00:11 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	2.069	2.224	748.2E6	1133.5E6	250.000M4	250.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	500.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	500.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-14.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 1:47 pm
Operator : Pest12:kb
Sample : il63262,42e,,8739
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 11:04:08 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 11:00:11 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-14.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 1:47 pm
Operator : Pest12:kb
Sample : il63262,42e,,8739
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 11:04:08 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 11:00:11 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	2.780	3.231	511.2E6	881.6E6	9710.855	9697.449M4
42) l5	1232-2	3.025	3.558	511.0E6	918.7E6	9995.300	10061.896M4
43) l5	1232-3	3.365	3.952	1079.2E6	1830.7E6	10273.323	10212.821M4
44) l5	1232-4	3.468	4.066	434.9E6	693.6E6	10044.071	10203.596M4
45) l5	1232-5	4.126	4.751	338.4E6	523.1E6	10717.161M3	10030.994M4
Sum	1232-1			2874.8E6	4847.7E6	50740.710	50206.757
Average	1232-1					10148.142	10041.351
46) l8	1262-1	4.952	5.564	1367.1E6	1817.2E6	10266.338	10322.033M4
47) l8	1262-2	5.240	5.882	1690.1E6	2466.8E6	10403.977	10578.791M4
48) l8	1262-3	5.418	6.090	1518.7E6	2119.6E6	10574.570M3	10537.508M4
49) l8	1262-4	5.636	6.251	3130.9E6	4175.4E6	10634.899	10635.469M4
50) l8	1262-5	5.854	6.495	1100.1E6	2932.8E6	9963.109M3	10787.344M4
Sum	1262-1			8806.9E6	13511.7E6	51842.893	52861.144
Average	1262-1					10368.579	10572.229

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			8806.9E6	13511.7E6	51842.893	52861.144

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-14.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 1:47 pm
Operator : Pest12:kb
Sample : il63262,42e,,8739
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 11:04:08 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 11:00:11 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average 1262-1					10368.579	10572.229

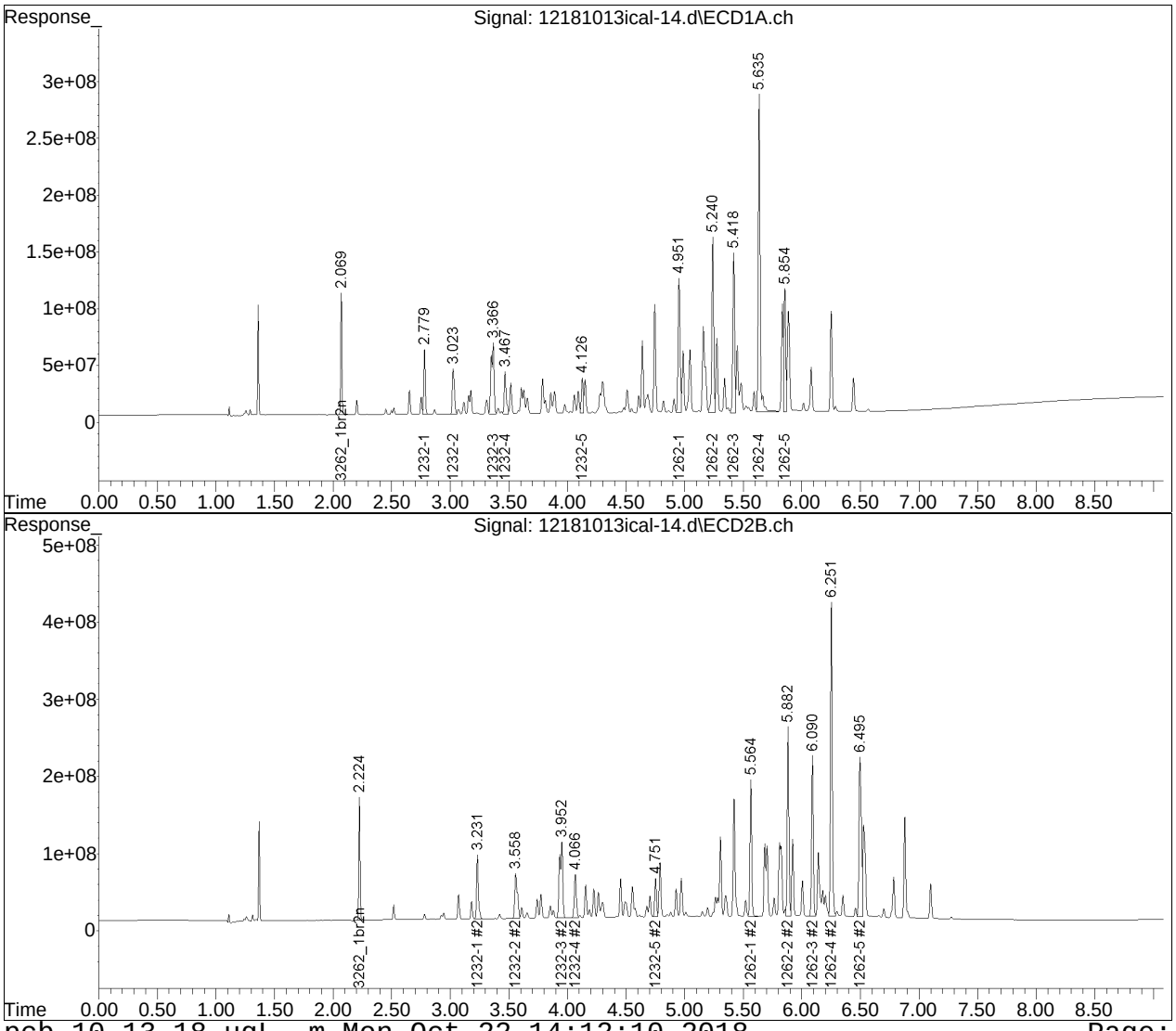
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-14.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 1:47 pm
Operator : Pest12:kb
Sample : il63262,42e,,8739
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 11:04:08 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 11:00:11 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

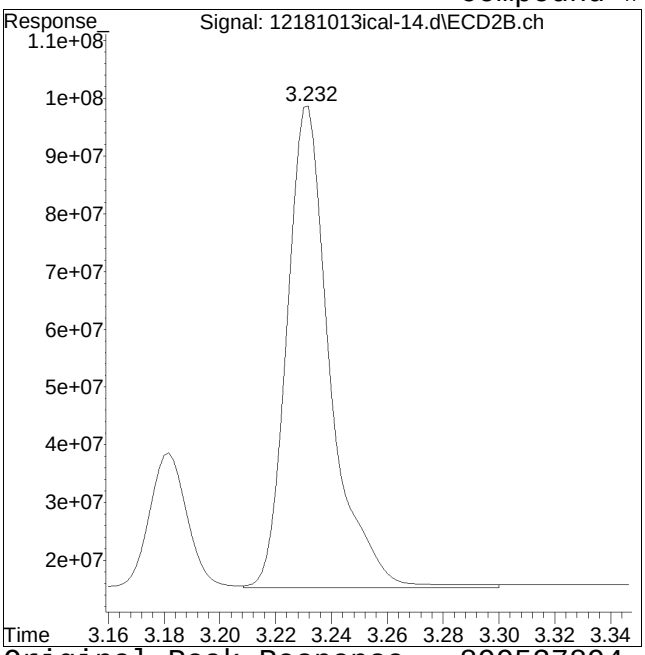


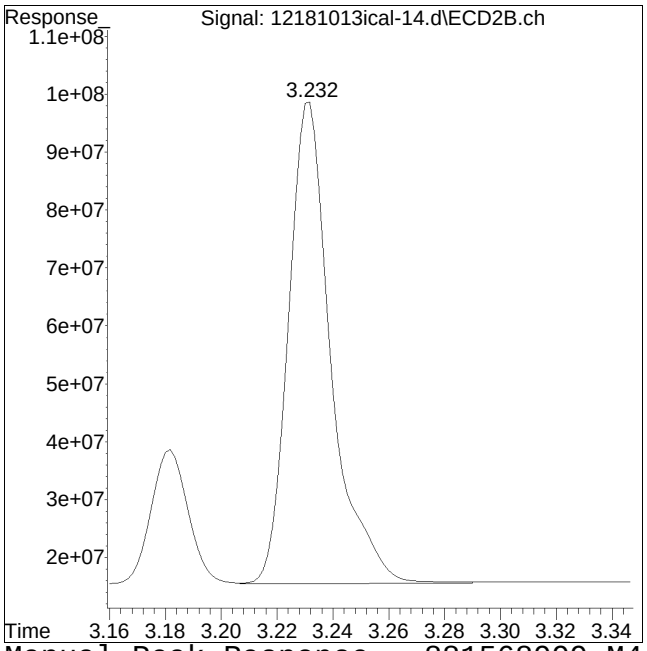
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-14.d
Date Inj'd : 10/13/2018 1:47 pm
Sample : il63262,42e,,8739

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:00 am

Compound #92: 1232-1 #2





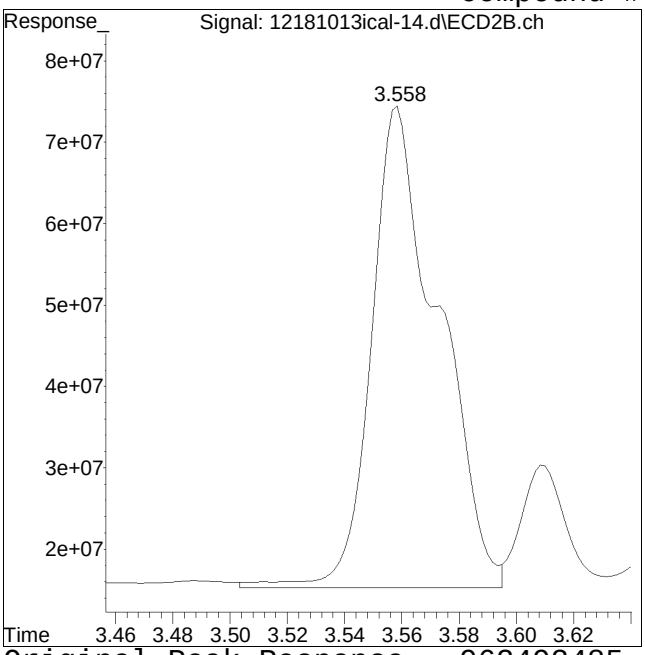
Original Peak Response = 899537894 Manual Peak Response = 881568999 M4
M4 = Poor automated baseline construction.

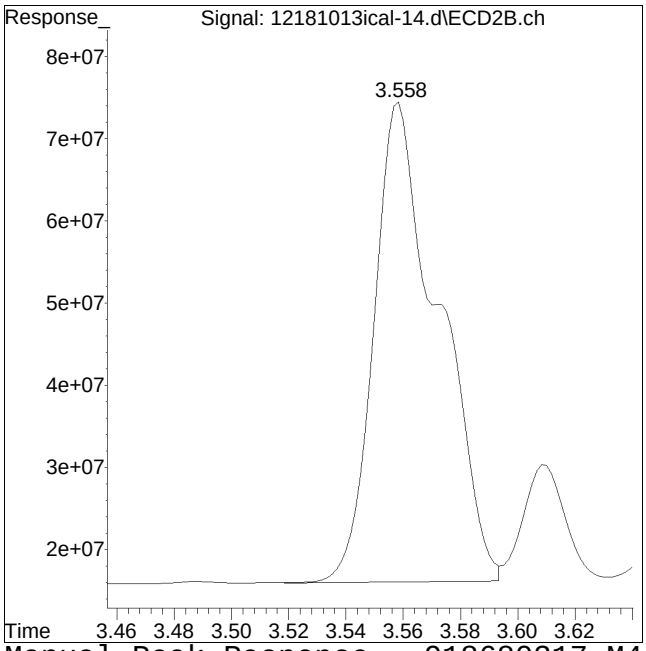
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-14.d
Date Inj'd : 10/13/2018 1:47 pm
Sample : il63262,42e,,8739

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:00 am

Compound #93: 1232-2 #2





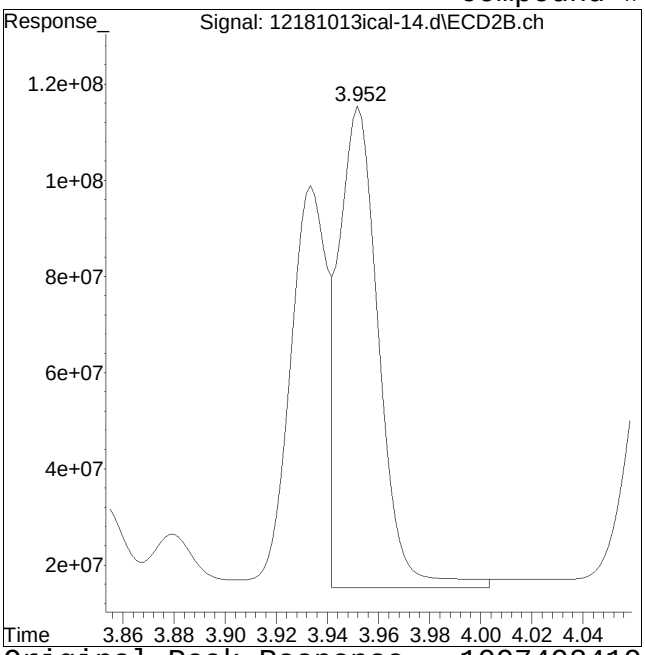
Original Peak Response = 962492485 Manual Peak Response = 918680317 M4
M4 = Poor automated baseline construction.

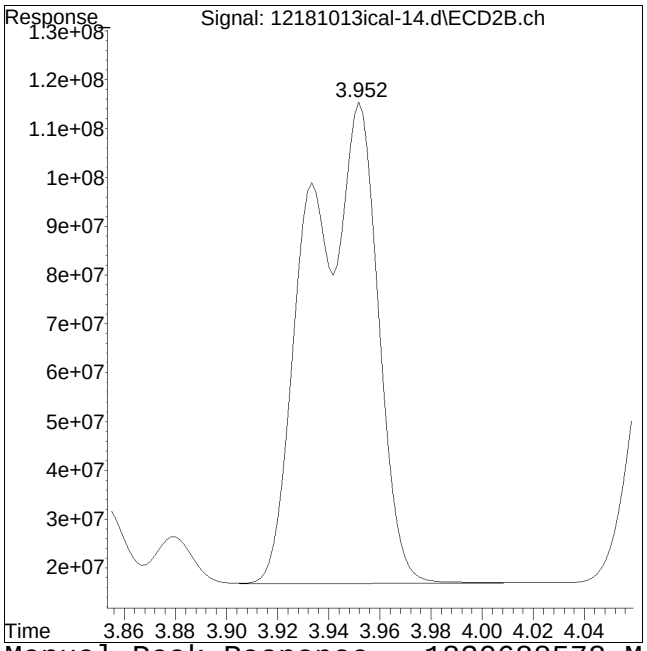
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-14.d
Date Inj'd : 10/13/2018 1:47 pm
Sample : il63262,42e,,8739

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:00 am

Compound #94: 1232-3 #2





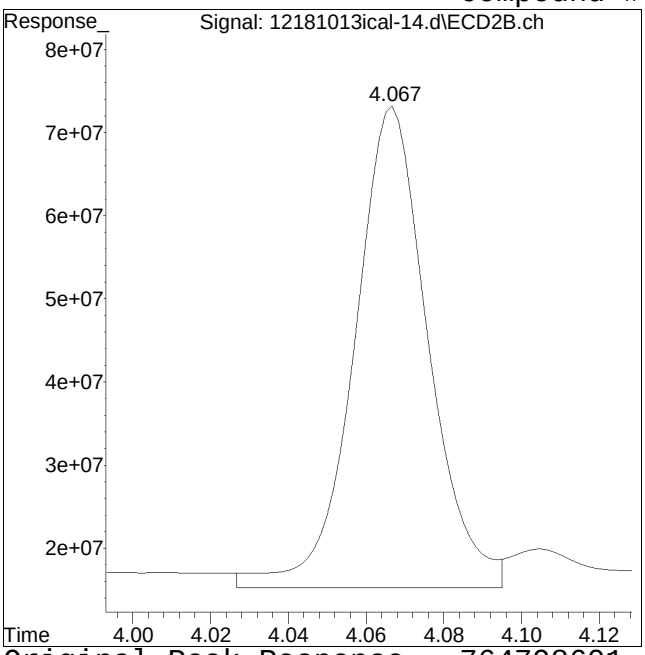
Original Peak Response = 1097492419 Manual Peak Response = 1830688578 M4
M4 = Poor automated baseline construction.

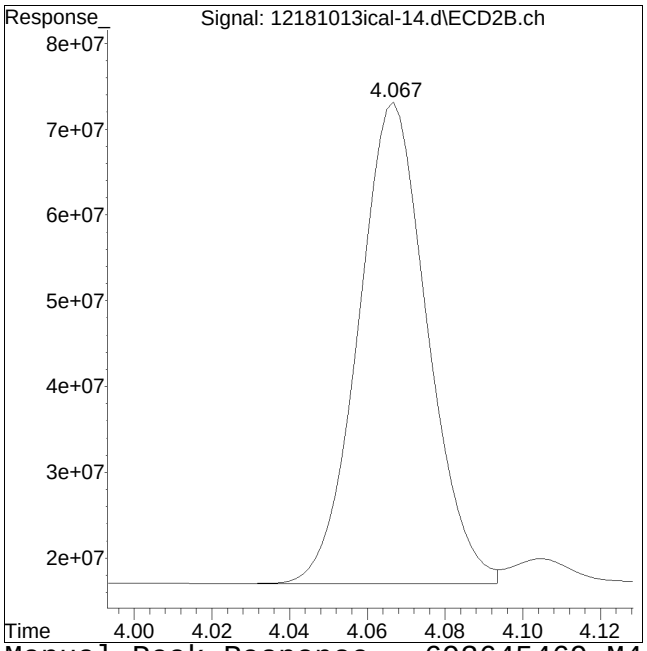
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-14.d
Date Inj'd : 10/13/2018 1:47 pm
Sample : il63262,42e,,8739

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:00 am

Compound #95: 1232-4 #2





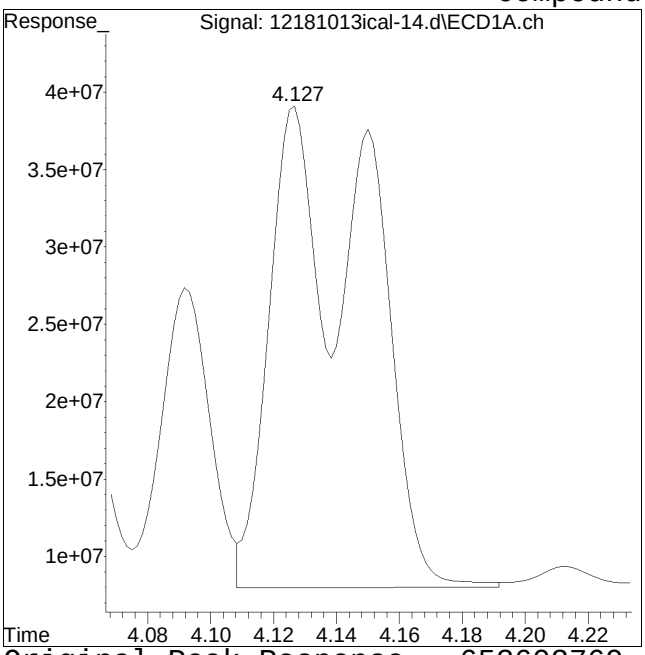
Original Peak Response = 764798601 Manual Peak Response = 693645469 M4
M4 = Poor automated baseline construction.

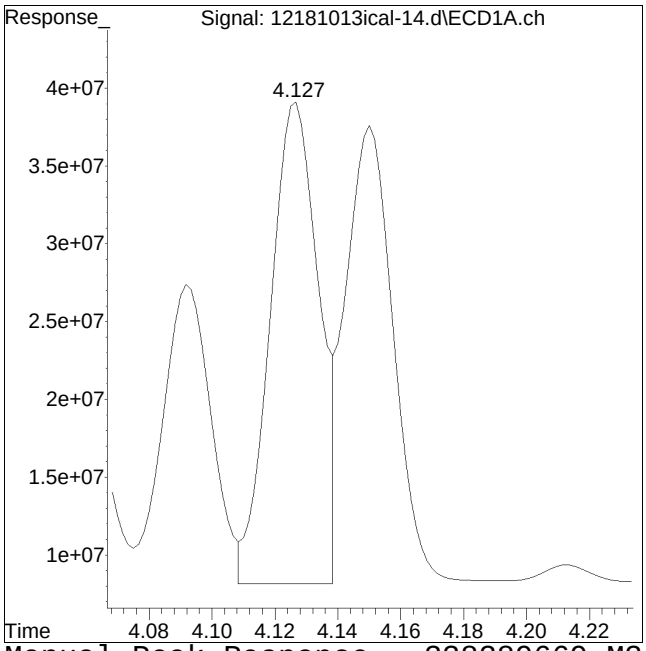
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-14.d
Date Inj'd : 10/13/2018 1:47 pm
Sample : il63262,42e,,8739

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:00 am

Compound #45: 1232-5





Original Peak Response = 653602769 Manual Peak Response = 338389669 M3

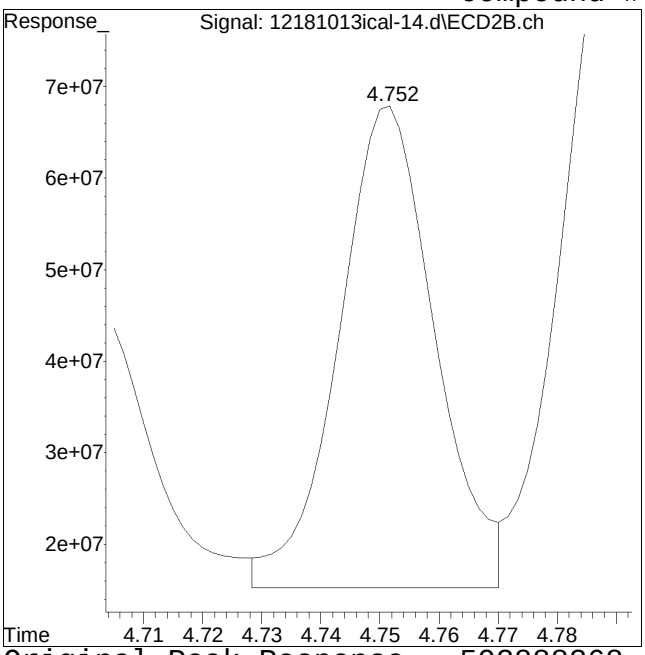
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

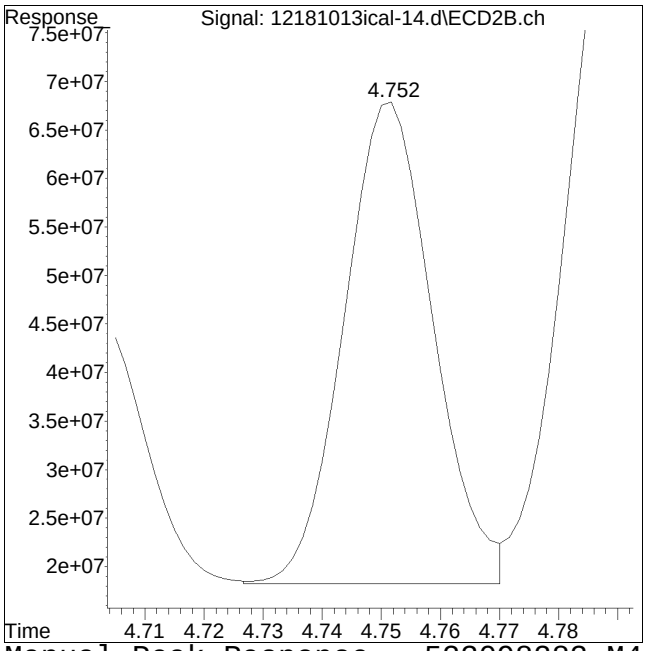
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-14.d
Date Inj'd : 10/13/2018 1:47 pm
Sample : il63262,42e,,8739

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:00 am

Compound #96: 1232-5 #2





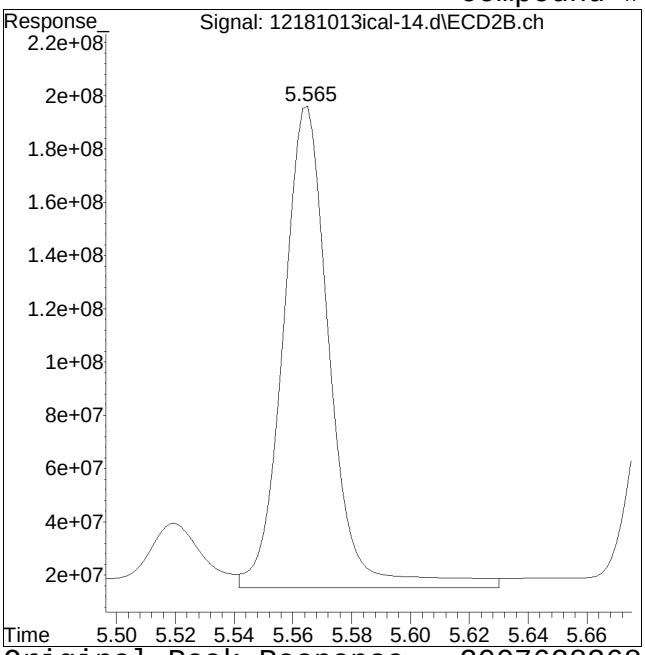
Original Peak Response = 593888368 Manual Peak Response = 523098283 M4
M4 = Poor automated baseline construction.

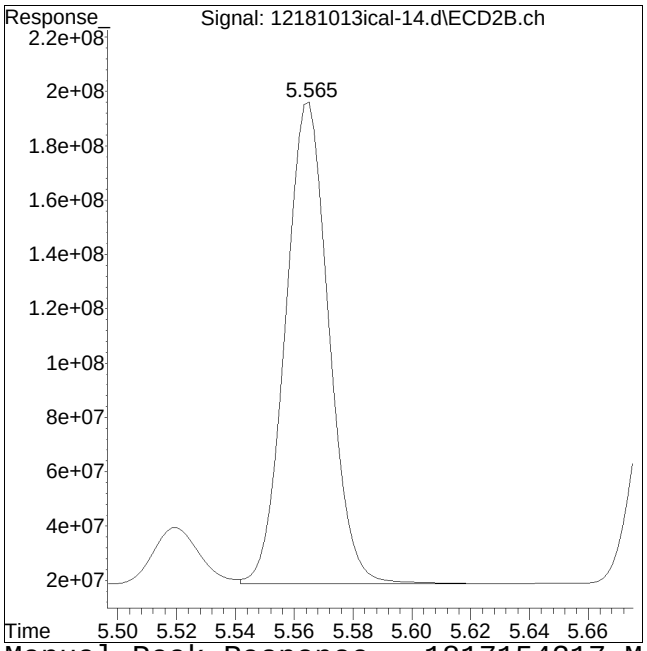
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-14.d
Date Inj'd : 10/13/2018 1:47 pm
Sample : il63262,42e,,8739

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:00 am

Compound #97: 1262-1 #2





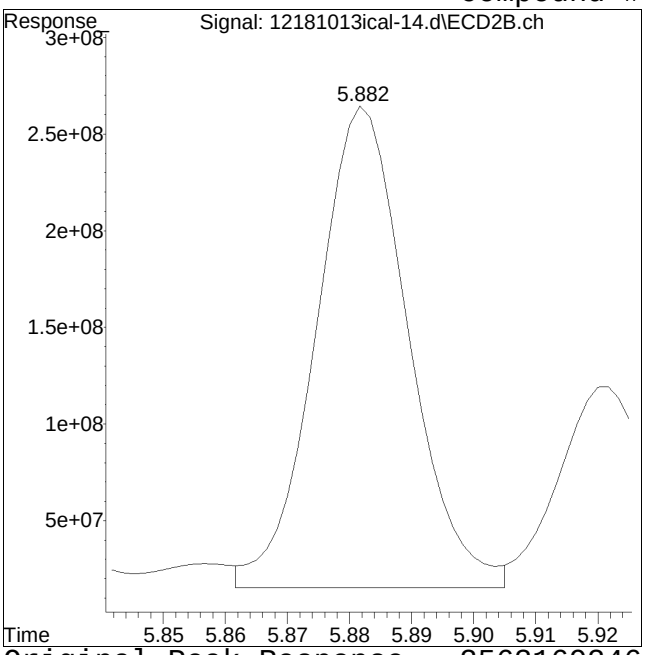
Original Peak Response = 2007628368 Manual Peak Response = 1817154217 M4
M4 = Poor automated baseline construction.

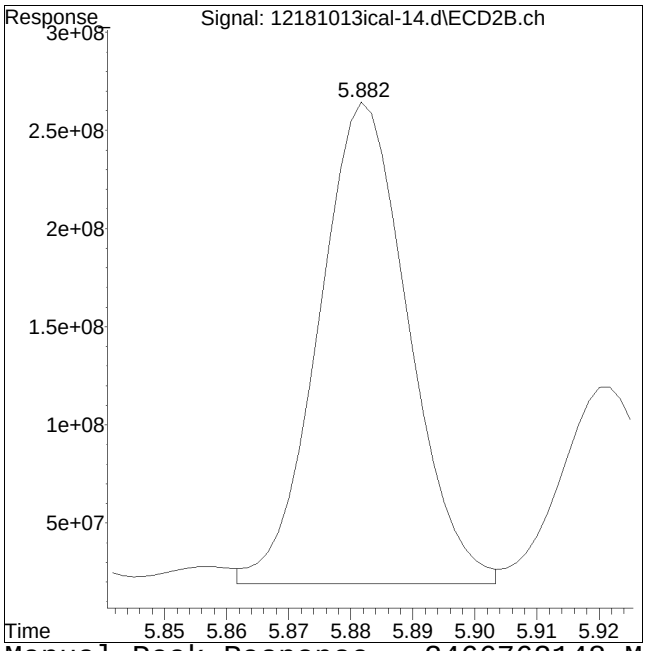
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-14.d
Date Inj'd : 10/13/2018 1:47 pm
Sample : il63262,42e,,8739

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:00 am

Compound #98: 1262-2 #2





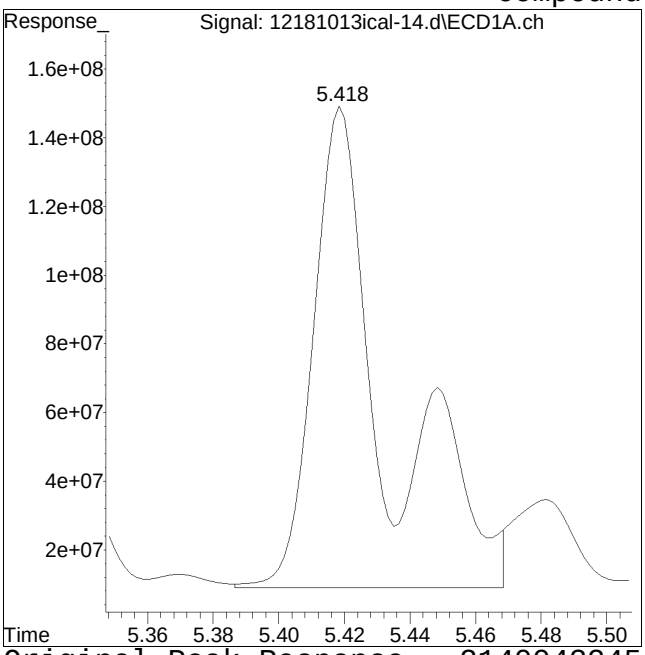
Original Peak Response = 2563169246 Manual Peak Response = 2466762148 M4
M4 = Poor automated baseline construction.

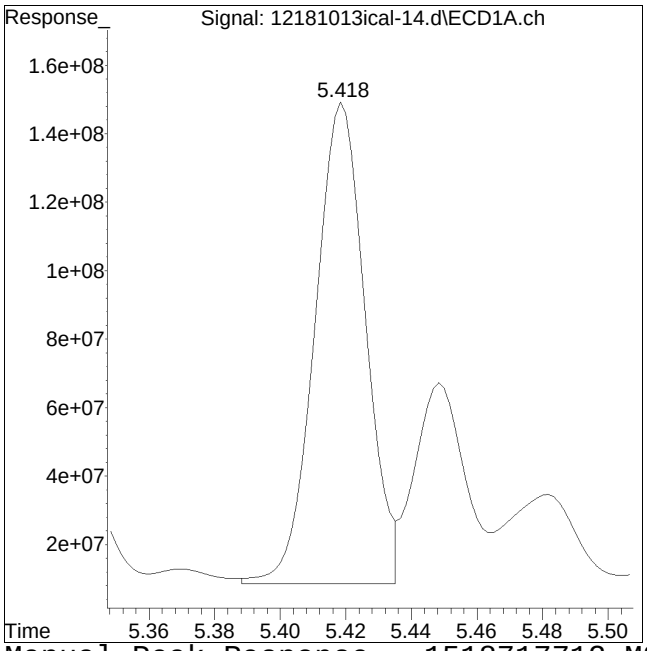
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-14.d
Date Inj'd : 10/13/2018 1:47 pm
Sample : il63262,42e,,8739

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:00 am

Compound #48: 1262-3





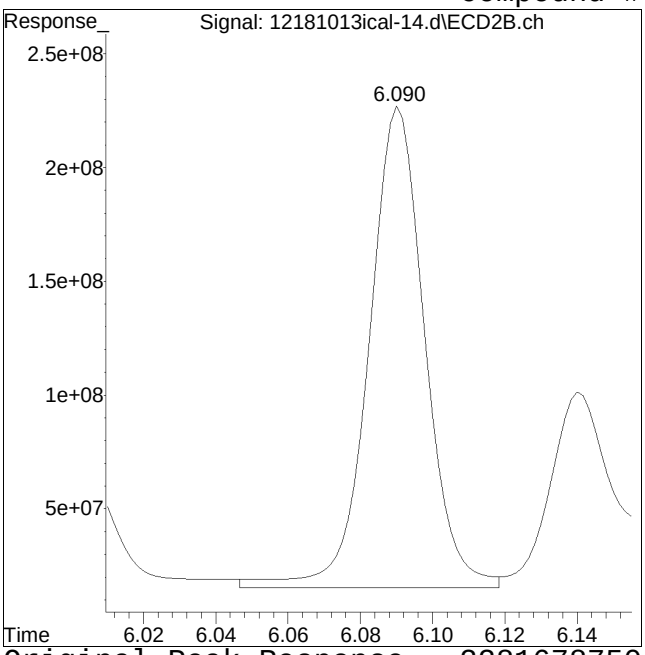
Original Peak Response = 2140043245 Manual Peak Response = 1518717712 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

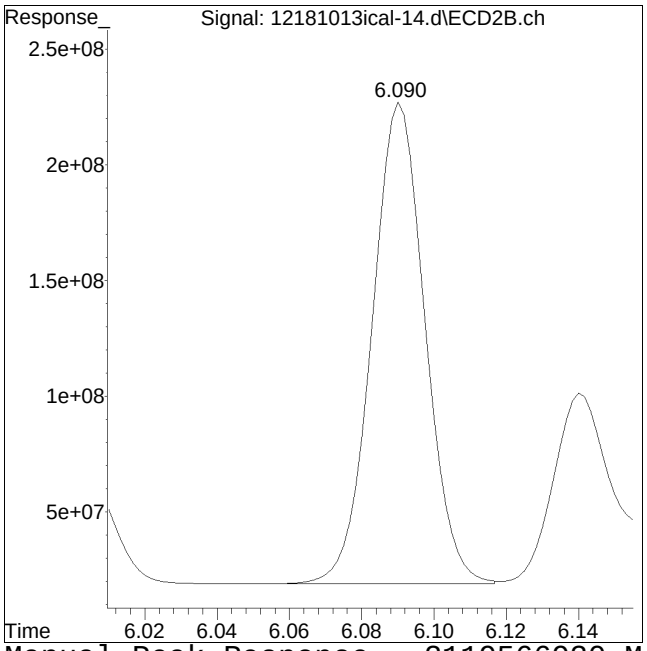
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-14.d
Date Inj'd : 10/13/2018 1:47 pm
Sample : il63262,42e,,8739

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:00 am

Compound #99: 1262-3 #2





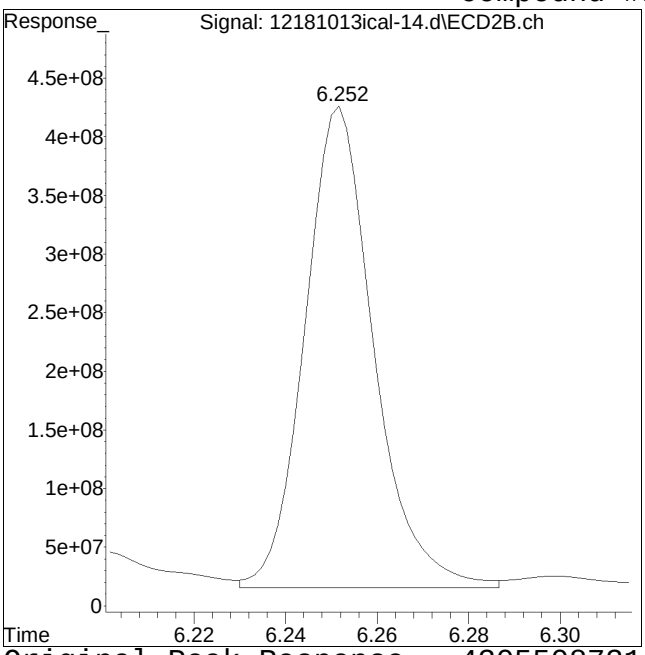
Original Peak Response = 2281678750 Manual Peak Response = 2119566930 M4
M4 = Poor automated baseline construction.

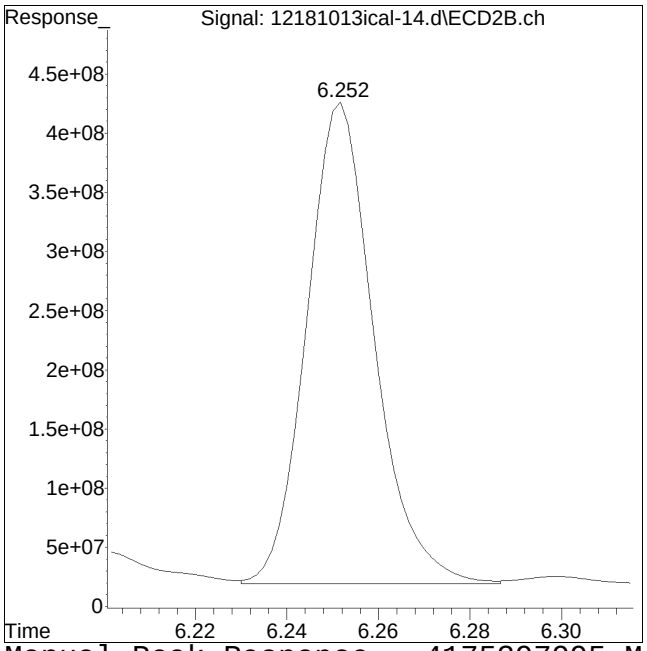
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-14.d
Date Inj'd : 10/13/2018 1:47 pm
Sample : il63262,42e,,8739

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:00 am

Compound #100: 1262-4 #2





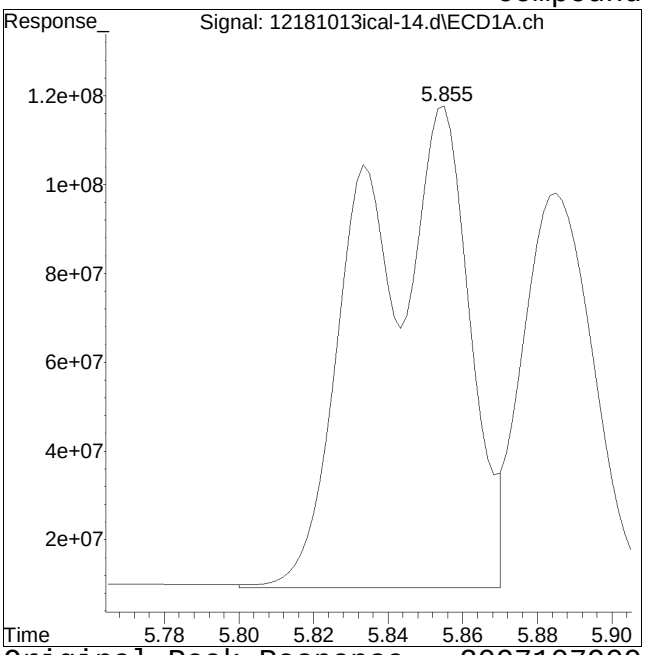
Original Peak Response = 4305508731 Manual Peak Response = 4175397995 M4
M4 = Poor automated baseline construction.

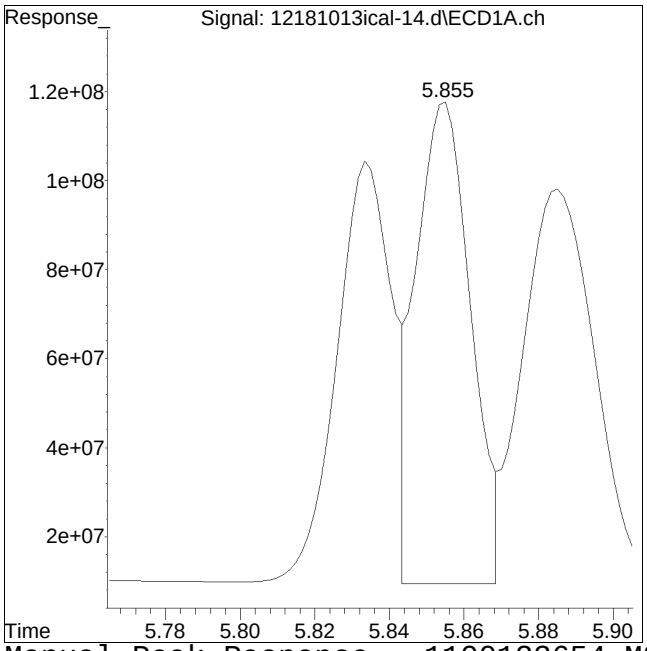
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-14.d
Date Inj'd : 10/13/2018 1:47 pm
Sample : il63262,42e,,8739

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:00 am

Compound #50: 1262-5





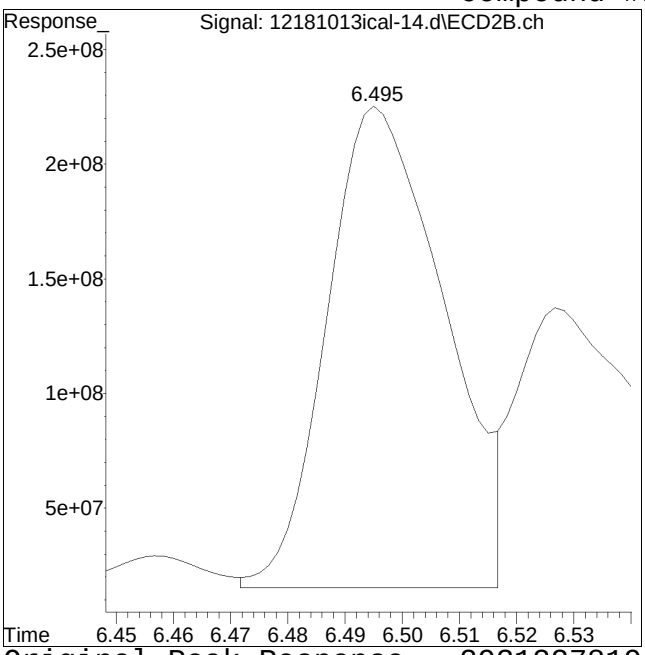
Original Peak Response = 2097107909 Manual Peak Response = 1100123654 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

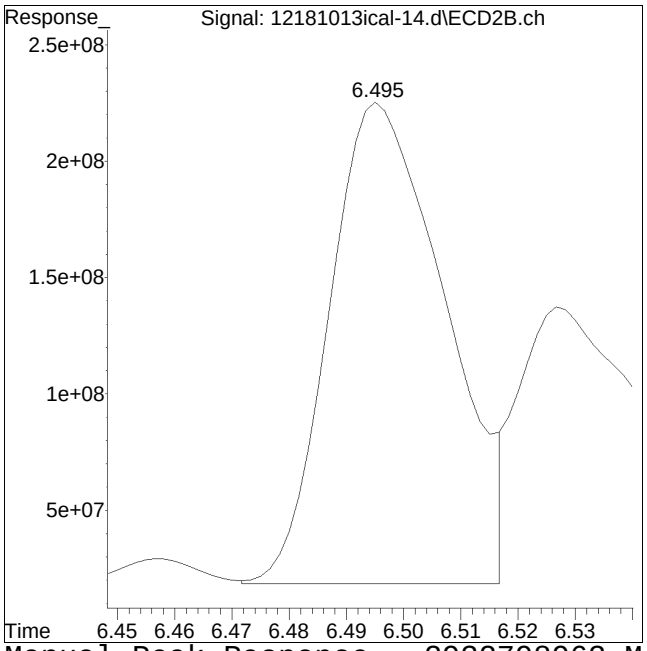
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-14.d
Date Inj'd : 10/13/2018 1:47 pm
Sample : il63262,42e,,8739

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:00 am

Compound #101: 1262-5 #2





Original Peak Response = 2931227819 Manual Peak Response = 2932798963 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-15.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 1:59 pm
Operator : Pest12:kb
Sample : il11248,42e,,8740
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 10:11:18 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 10:07:30 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	2.069	2.224	775.2E6	1186.4E6	250.000M4	250.000M4
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-15.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 1:59 pm
Operator : Pest12:kb
Sample : il11248,42e,,8740
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 10:11:18 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 10:07:30 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	3.350	3.934	7888520	13297161	124.908M4	122.766M4
36) l7	1248-2	3.607	4.225	9737916	14818081	115.685M3	118.304M4
37) l7	1248-3	3.788	4.453	15325080	16585297	118.756M1	111.142M4

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-15.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 1:59 pm
Operator : Pest12:kb
Sample : il11248,42e,,8740
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 10:11:18 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 10:07:30 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
38) l7	1248-4	4.127	4.751	13490774	19308937	118.951M4	111.845M4
39) l7	1248-5	4.150	4.790	10722435	19970096	111.441M4	105.365M4
Sum	1248-1			57164726	83979573	NoCal	NoCal D
Average	1248-1					117.948	113.884
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-15.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 1:59 pm
Operator : Pest12:kb
Sample : il11248,42e,,8740
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 10:11:18 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 10:07:30 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

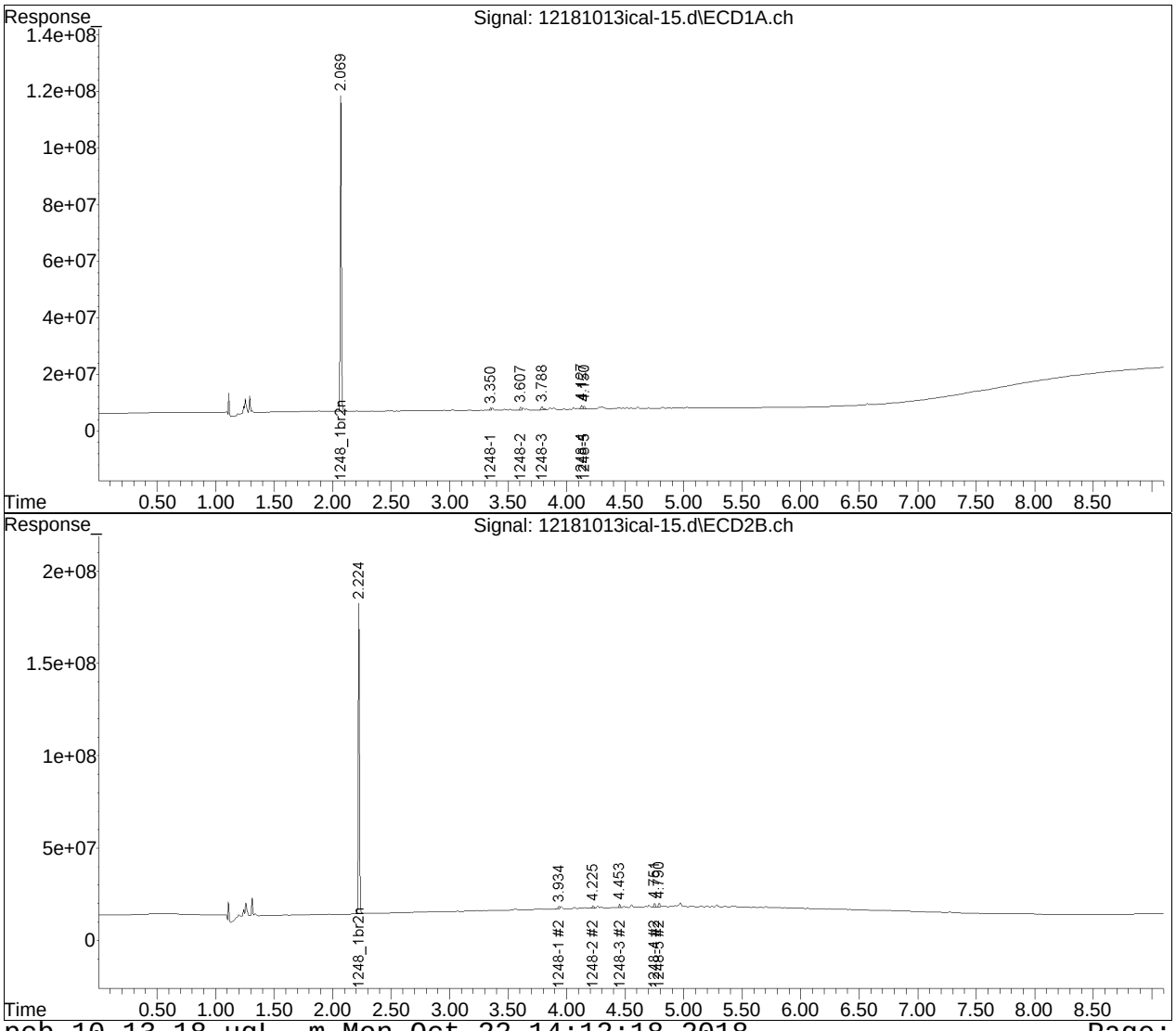
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-15.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 1:59 pm
Operator : Pest12:kb
Sample : il11248,42e,,8740
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 10:11:18 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 10:07:30 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

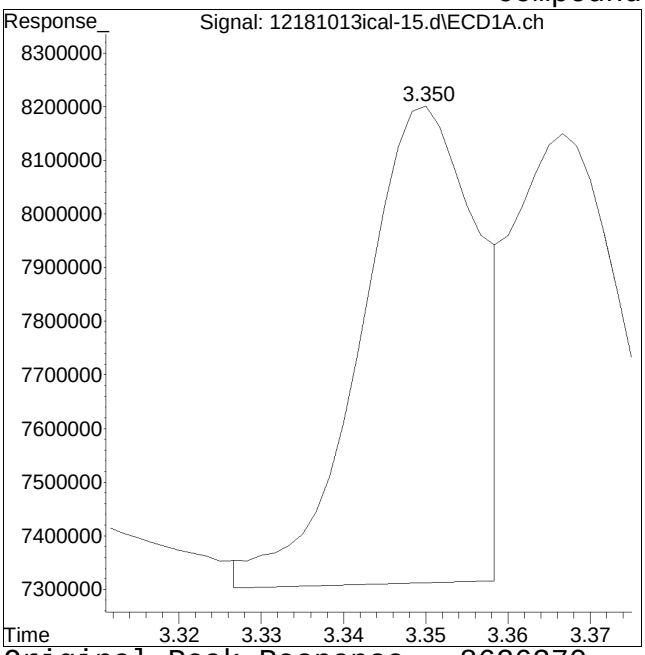


Manual Integration Report

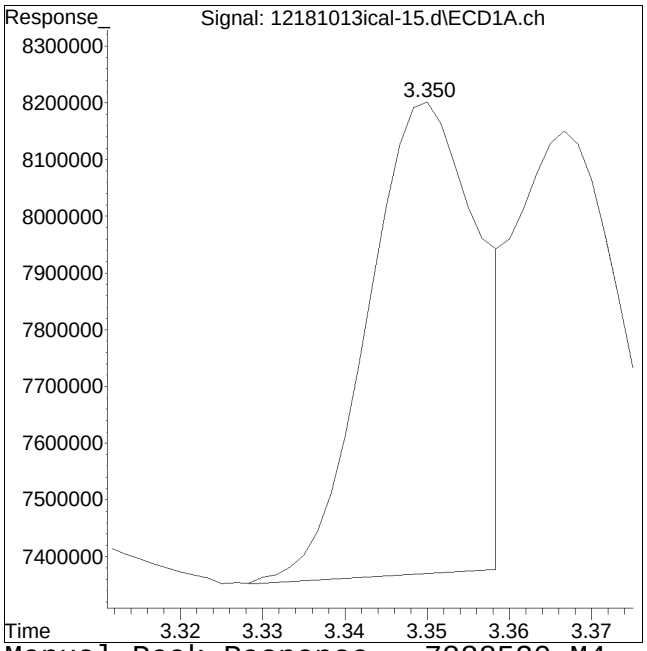
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-15.d
Date Inj'd : 10/13/2018 1:59 pm
Sample : il11248,42e,,8740

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:07 am

Compound #35: 1248-1



Original Peak Response = 8626370



Manual Peak Response = 7888520 M4

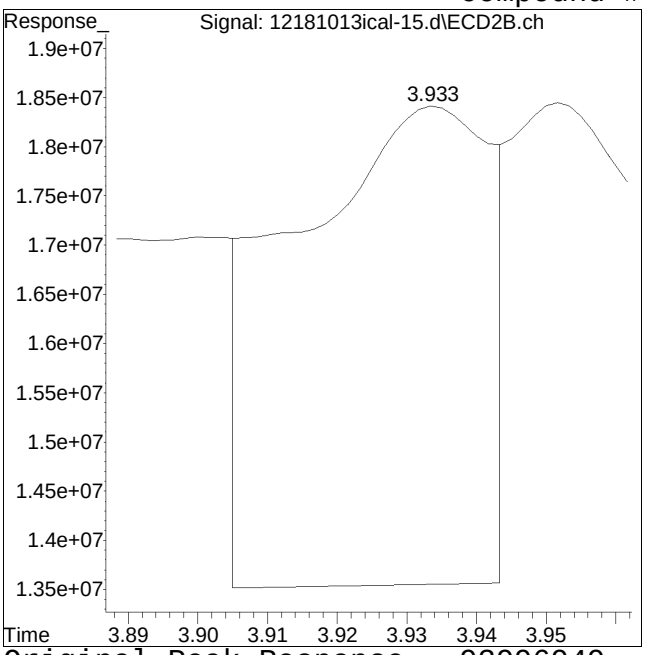
M4 = Poor automated baseline construction.

Manual Integration Report

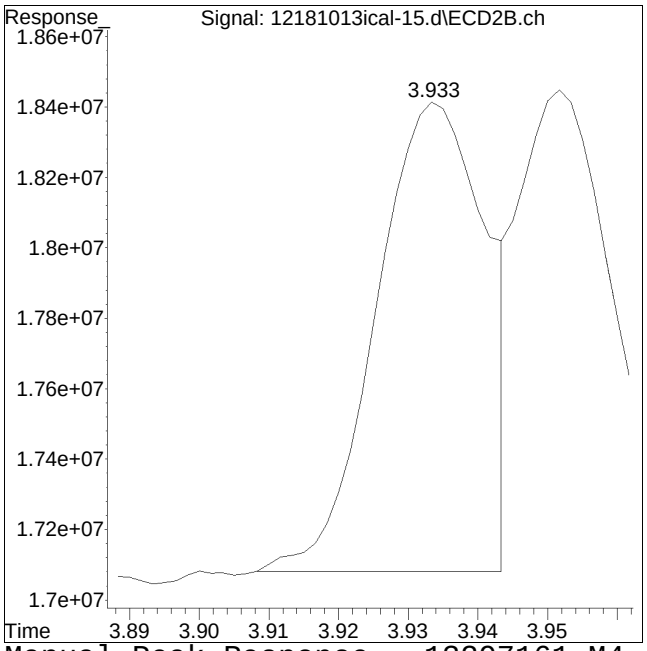
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-15.d
Date Inj'd : 10/13/2018 1:59 pm
Sample : il11248,42e,,8740

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:07 am

Compound #86: 1248-1 #2



Original Peak Response = 93996949



Manual Peak Response = 13297161 M4

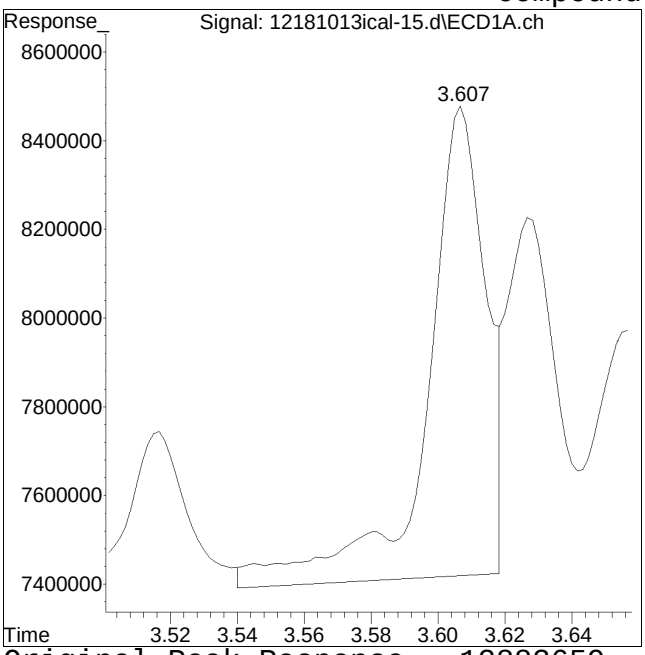
M4 = Poor automated baseline construction.

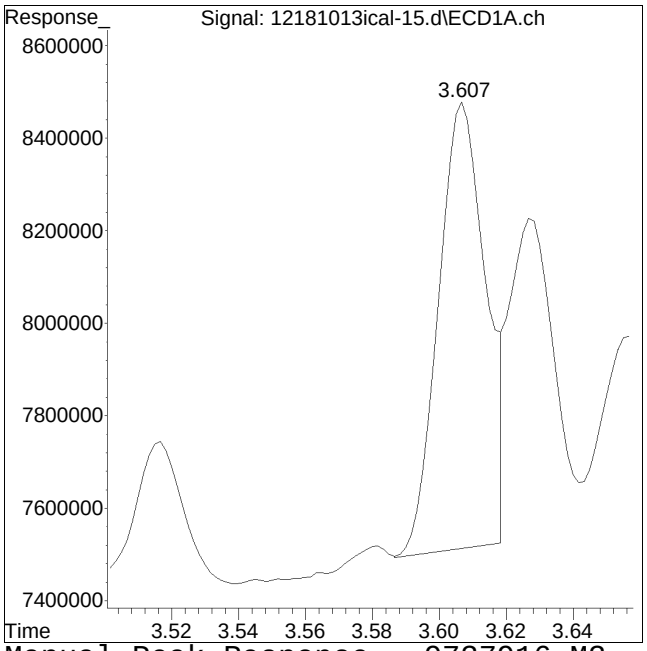
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-15.d
Date Inj'd : 10/13/2018 1:59 pm
Sample : il11248,42e,,8740

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:07 am

Compound #36: 1248-2





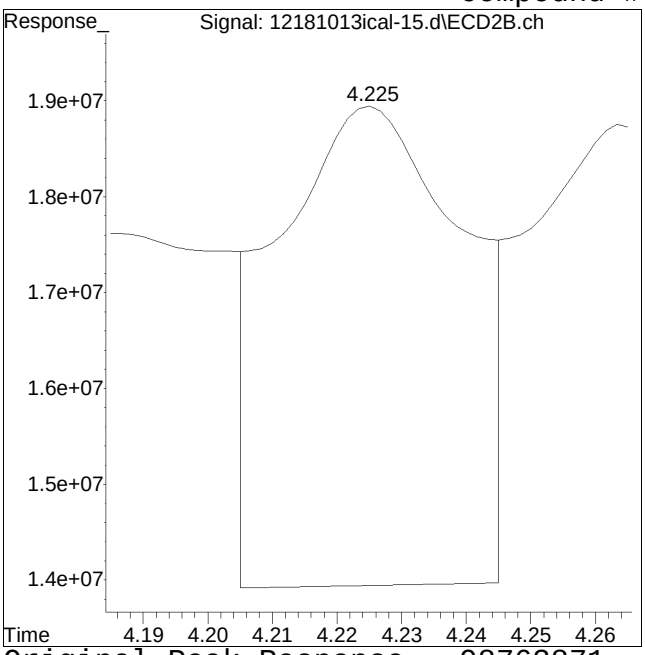
Original Peak Response = 12883659 Manual Peak Response = 9737916 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

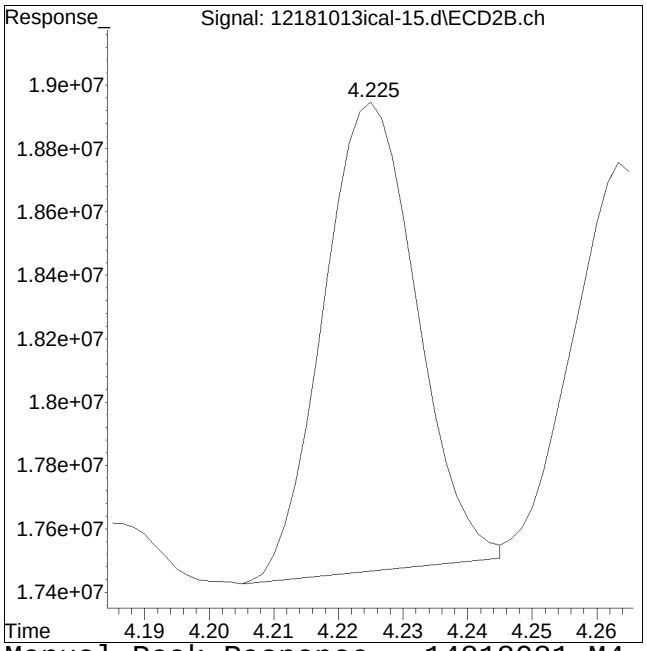
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-15.d
Date Inj'd : 10/13/2018 1:59 pm
Sample : il11248,42e,,8740

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:07 am

Compound #87: 1248-2 #2



Original Peak Response = 98763871



Manual Peak Response = 14818081 M4

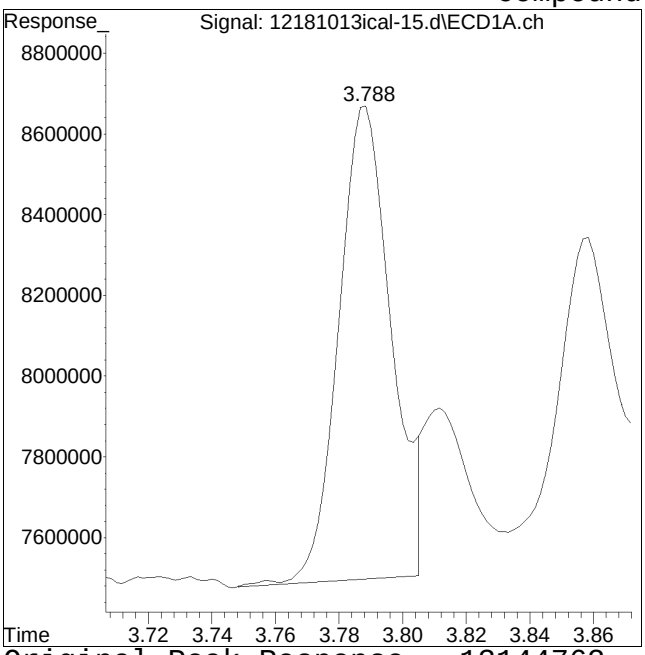
M4 = Poor automated baseline construction.

Manual Integration Report

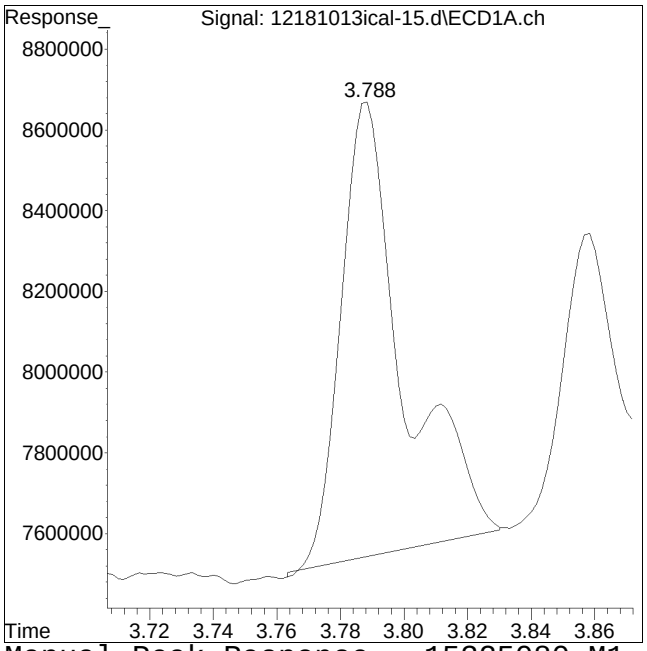
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-15.d
Date Inj'd : 10/13/2018 1:59 pm
Sample : il11248,42e,,8740

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:07 am

Compound #37: 1248-3



Original Peak Response = 13144762



Manual Peak Response = 15325080 M1

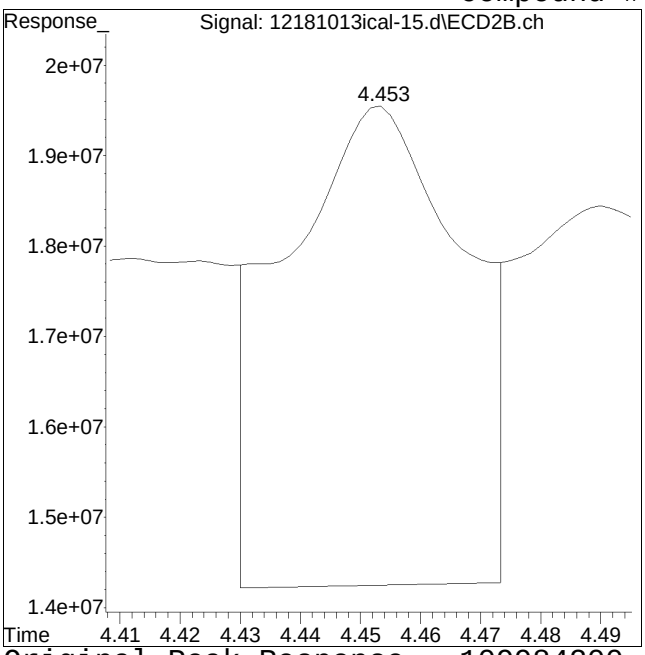
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

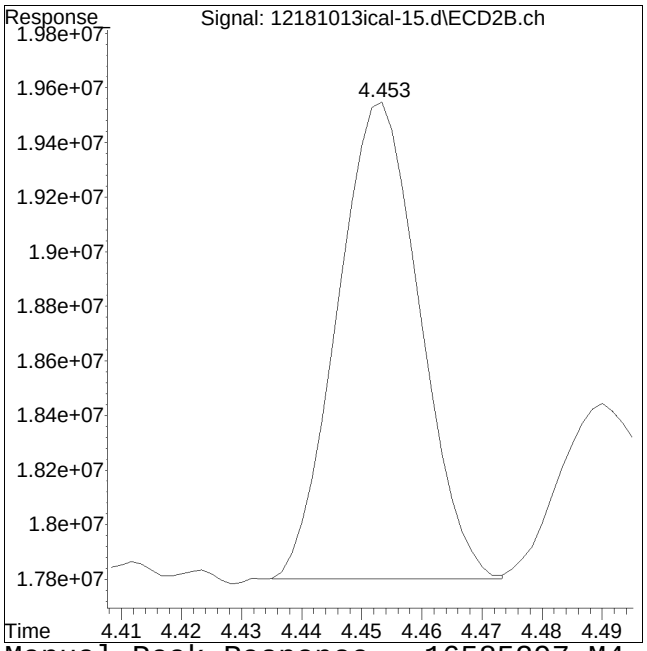
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-15.d
Date Inj'd : 10/13/2018 1:59 pm
Sample : il11248,42e,,8740

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:07 am

Compound #88: 1248-3 #2



Original Peak Response = 109984200



Manual Peak Response = 16585297 M4

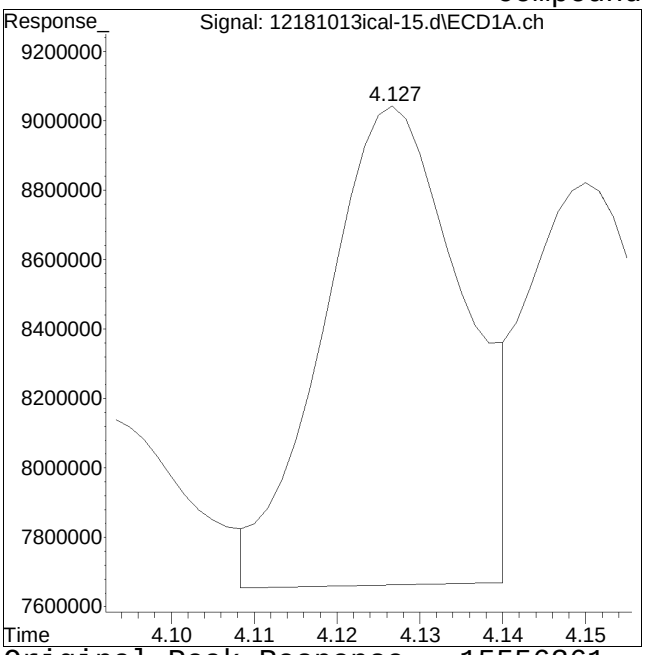
M4 = Poor automated baseline construction.

Manual Integration Report

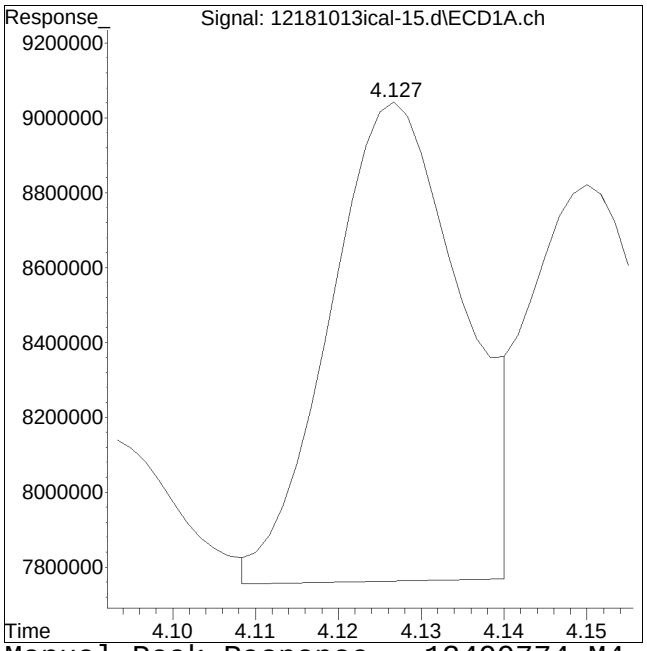
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-15.d
Date Inj'd : 10/13/2018 1:59 pm
Sample : il11248,42e,,8740

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:07 am

Compound #38: 1248-4



Original Peak Response = 15556361



Manual Peak Response = 13490774 M4

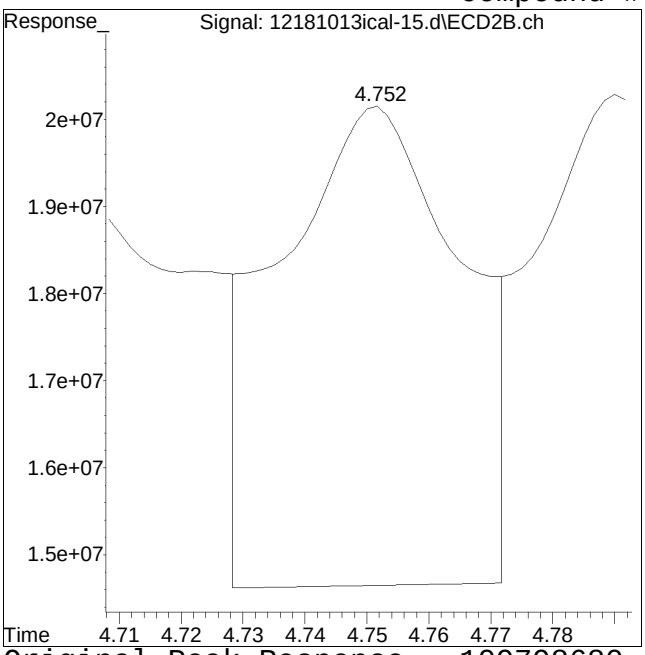
M4 = Poor automated baseline construction.

Manual Integration Report

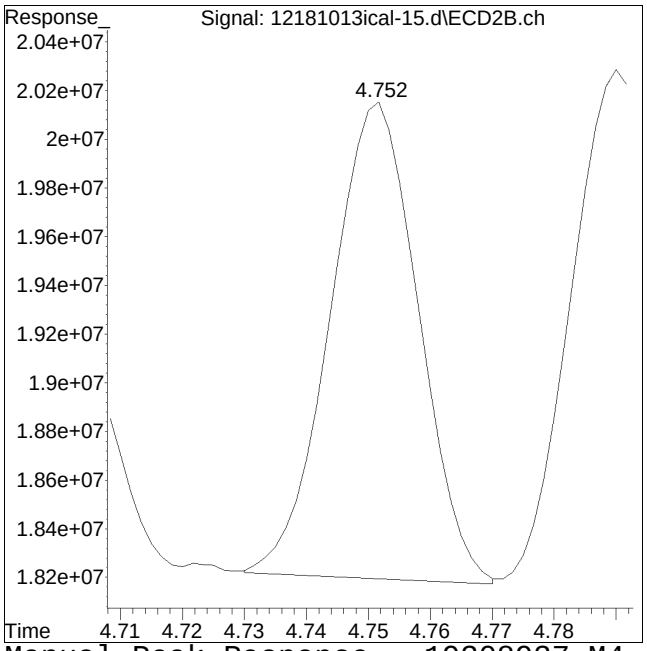
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-15.d
Date Inj'd : 10/13/2018 1:59 pm
Sample : il11248,42e,,8740

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:07 am

Compound #89: 1248-4 #2



Original Peak Response = 109798680



Manual Peak Response = 19308937 M4

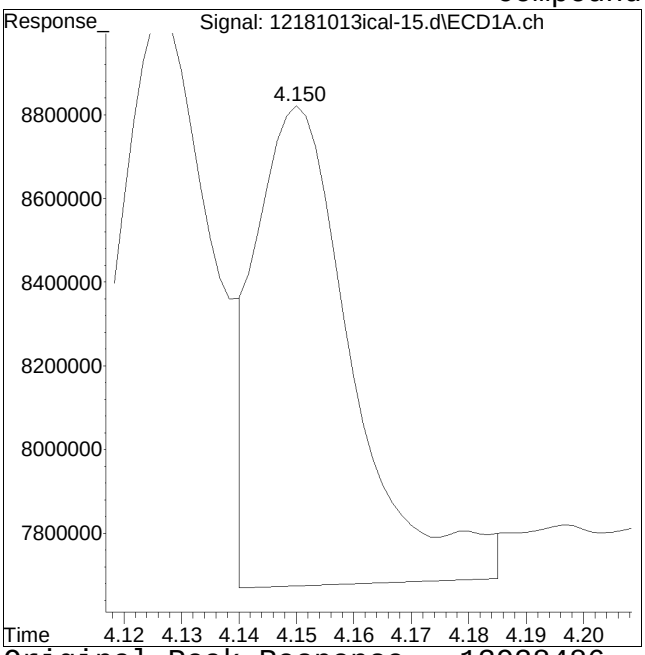
M4 = Poor automated baseline construction.

Manual Integration Report

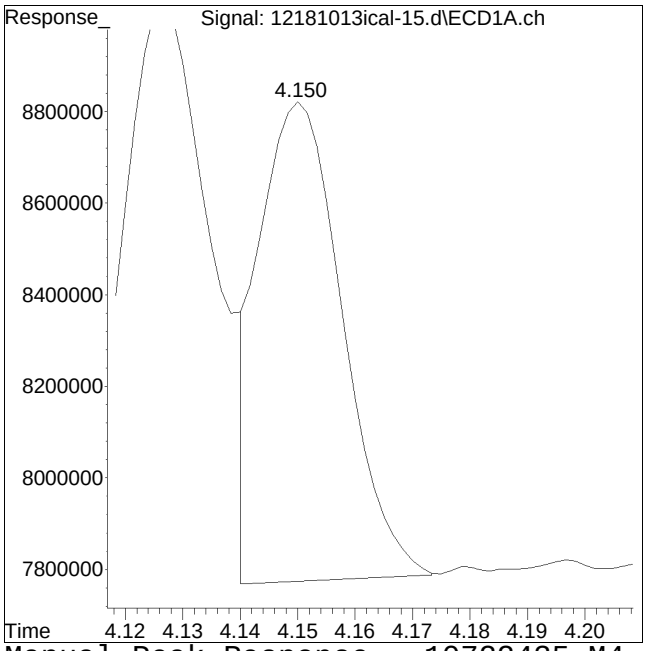
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-15.d
Date Inj'd : 10/13/2018 1:59 pm
Sample : il11248,42e,,8740

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:07 am

Compound #39: 1248-5



Original Peak Response = 13938486



Manual Peak Response = 10722435 M4

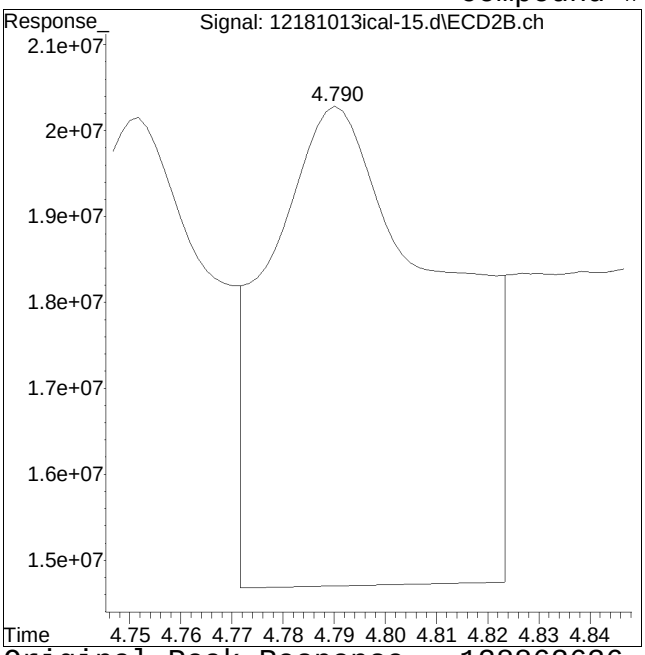
M4 = Poor automated baseline construction.

Manual Integration Report

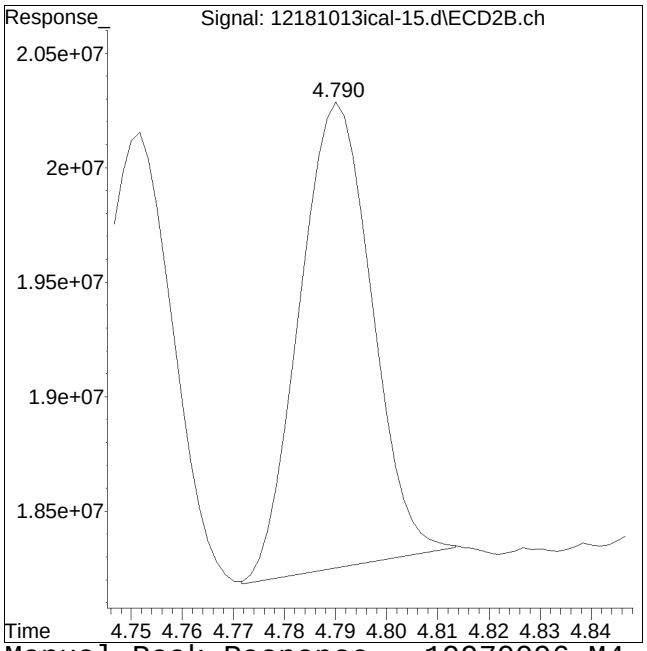
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-15.d
Date Inj'd : 10/13/2018 1:59 pm
Sample : il11248,42e,,8740

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:07 am

Compound #90: 1248-5 #2



Original Peak Response = 128862636



Manual Peak Response = 19970096 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-16.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 2:12 pm
Operator : Pest12:kb
Sample : il21248,42e,,8741
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 10:07:09 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 10:03:31 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	2.070	2.224	746.1E6	1129.1E6	250.000	250.000M4
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	500.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	500.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-16.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 2:12 pm
Operator : Pest12:kb
Sample : il21248,42e,,8741
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 10:07:09 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 10:03:31 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	3.349	3.933	33803534	55864725	572.165M3	553.512M4
36) l7	1248-2	3.606	4.225	43966330	68738453	554.498M4	599.577M4
37) l7	1248-3	3.787	4.453	70179090	81606574	584.008M4	596.840M4

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-16.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 2:12 pm
Operator : Pest12:kb
Sample : il21248,42e,,8741
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 10:07:09 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 10:03:31 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
38) l7	1248-4	4.126	4.752	61668261	94091234	583.890M4	594.218M4
39) l7	1248-5	4.150	4.790	50808826	103.0E6	562.329M4	592.252M4
Sum	1248-1			260.4E6	403.3E6	NoCal	NoCal D
Average	1248-1					571.378	587.280
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

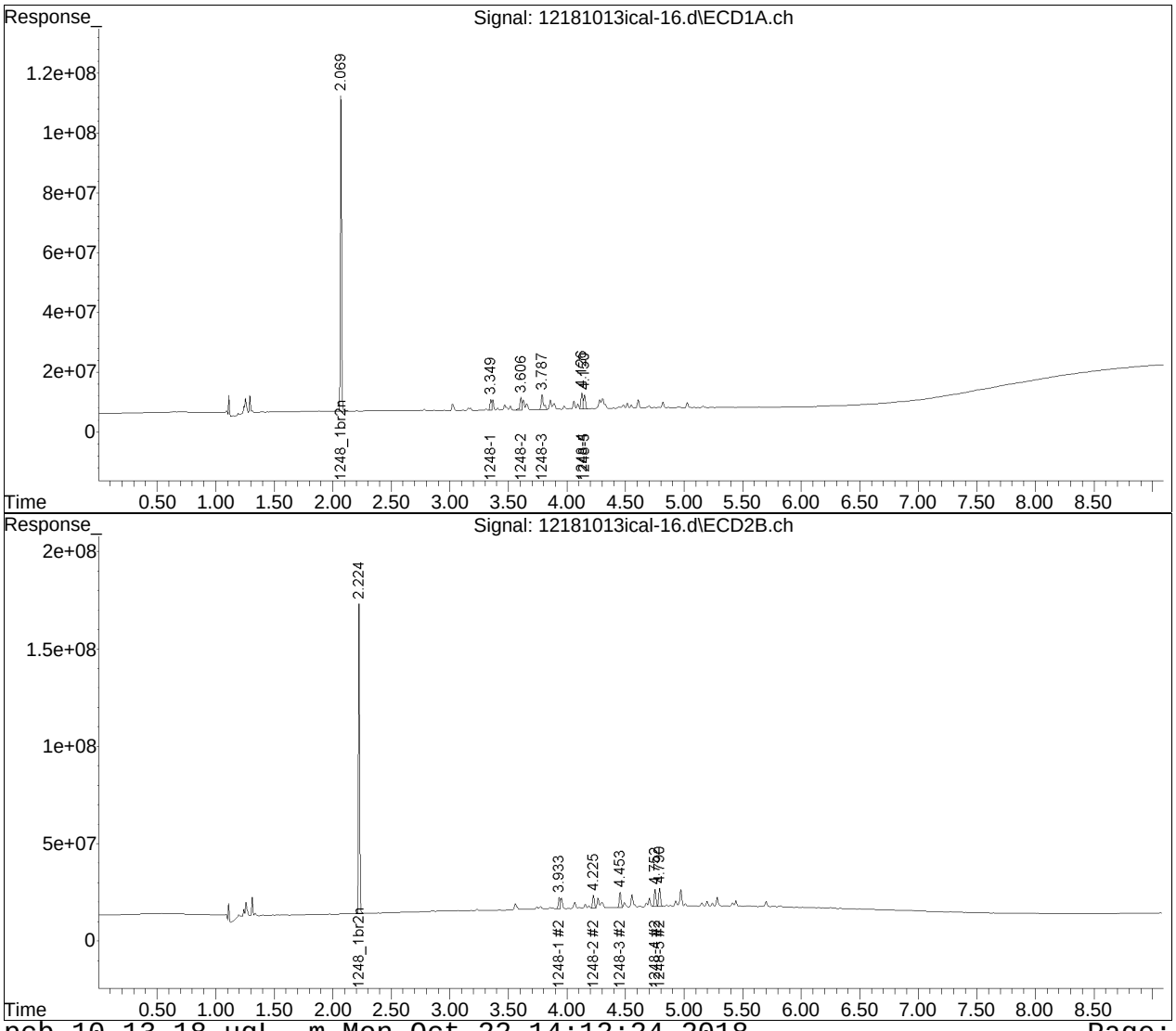
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-16.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 2:12 pm
Operator : Pest12:kb
Sample : il21248,42e,,8741
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 10:07:09 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 10:03:31 2018
Response via : Initial Calibration
Integrator: ChemStation

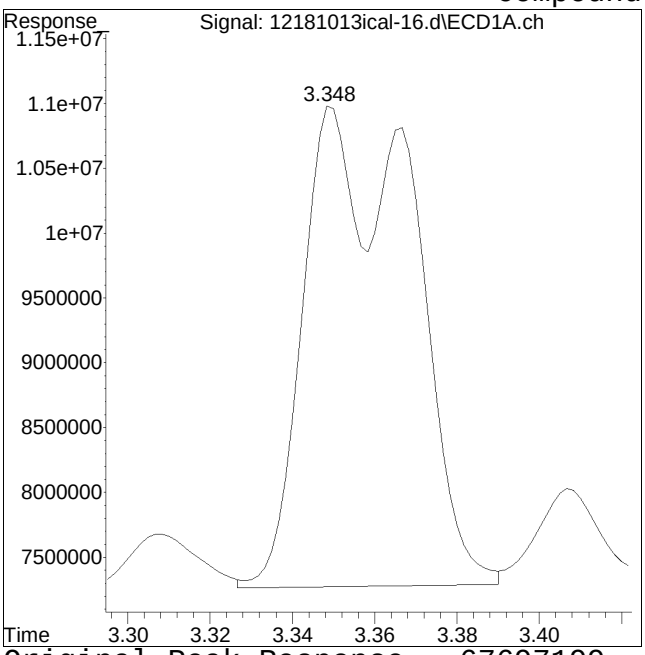
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

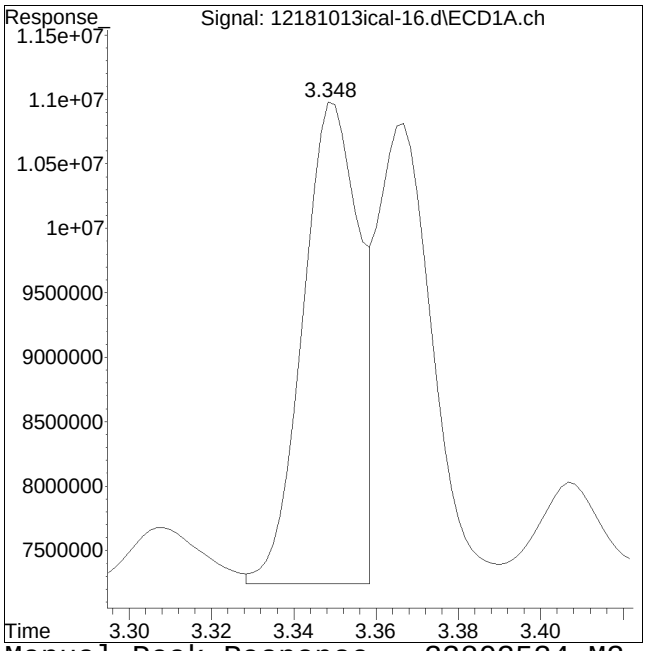


Manual Integration Report

Data Path	: I:\Pest12\181013ical\	QMethod	: P12_pcb_10-13-18_ugL_.m
Data File	: 12181013ical-16.d	Operator	: Pest12:kb
Date Inj'd	: 10/13/2018 2:12 pm	Instrument	: Pest 12
Sample	: il21248,42e,,8741	Quant Date	: 10/16/2018 10:03 am

Compound #35: 1248-1





Original Peak Response = 67697199 Manual Peak Response = 33803534 M3

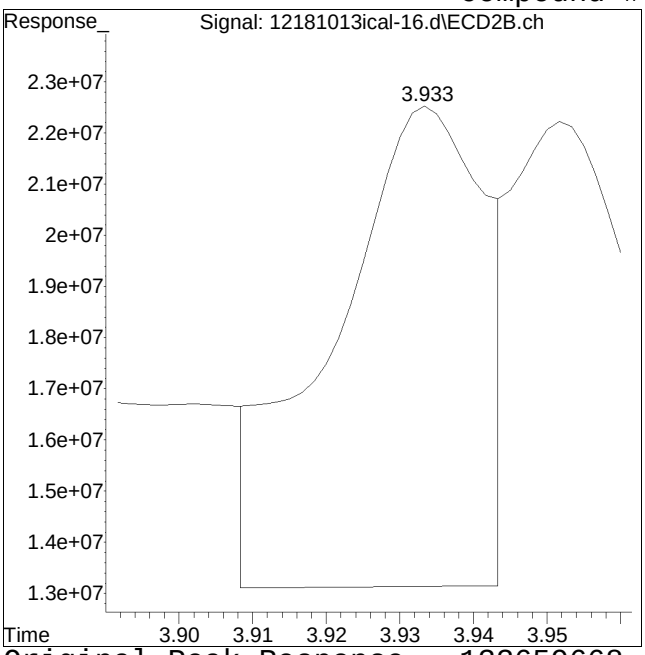
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

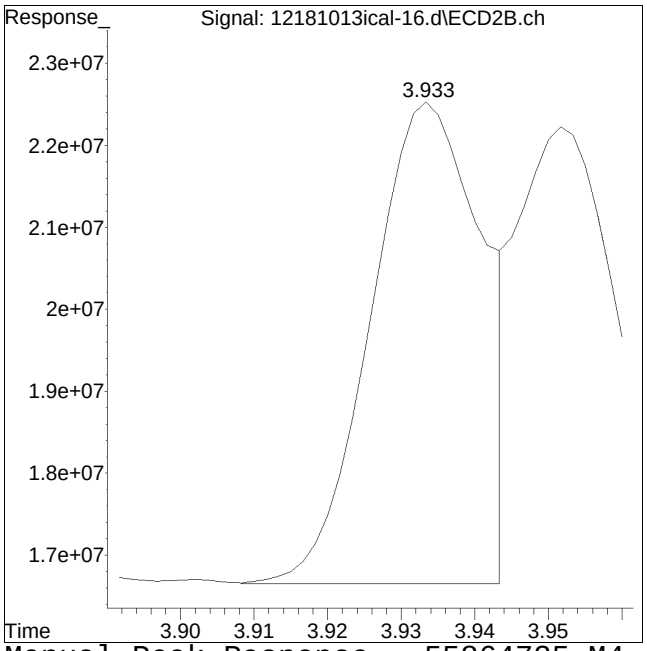
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-16.d
Date Inj'd : 10/13/2018 2:12 pm
Sample : il21248,42e,,8741

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:03 am

Compound #86: 1248-1 #2



Original Peak Response = 133659668



Manual Peak Response = 55864725 M4

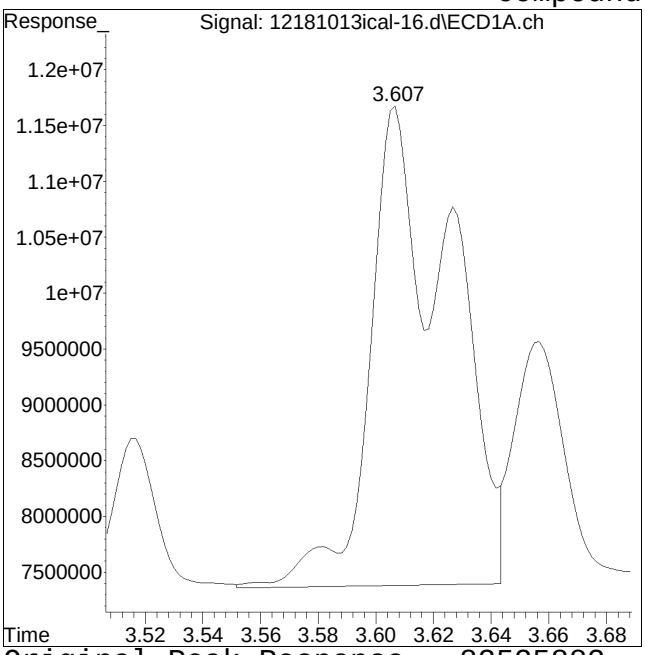
M4 = Poor automated baseline construction.

Manual Integration Report

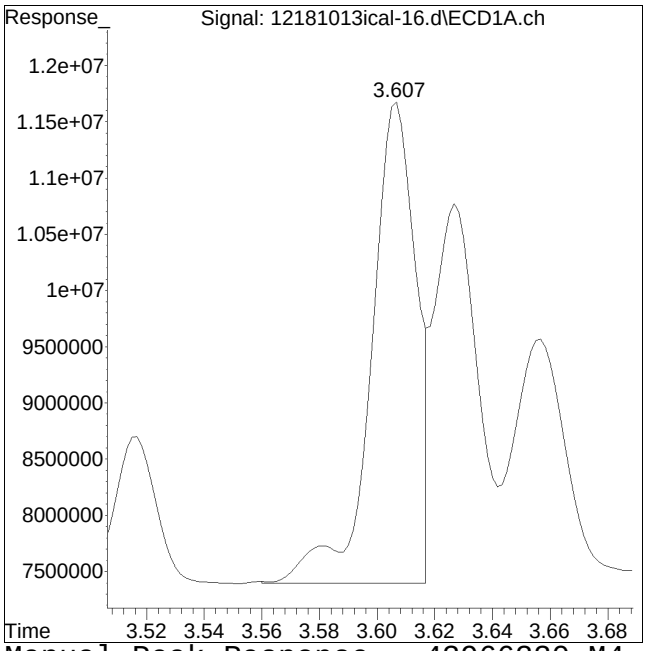
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-16.d
Date Inj'd : 10/13/2018 2:12 pm
Sample : il21248,42e,,8741

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:03 am

Compound #36: 1248-2



Original Peak Response = 82525882



Manual Peak Response = 43966330 M4

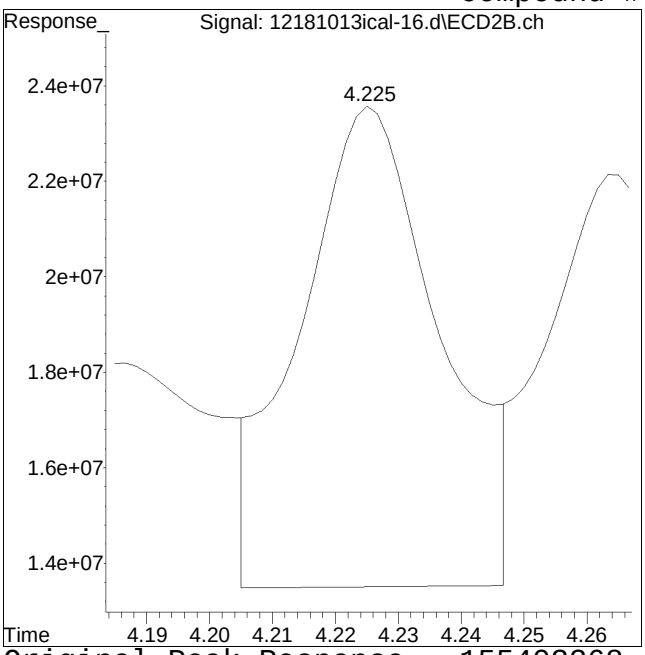
M4 = Poor automated baseline construction.

Manual Integration Report

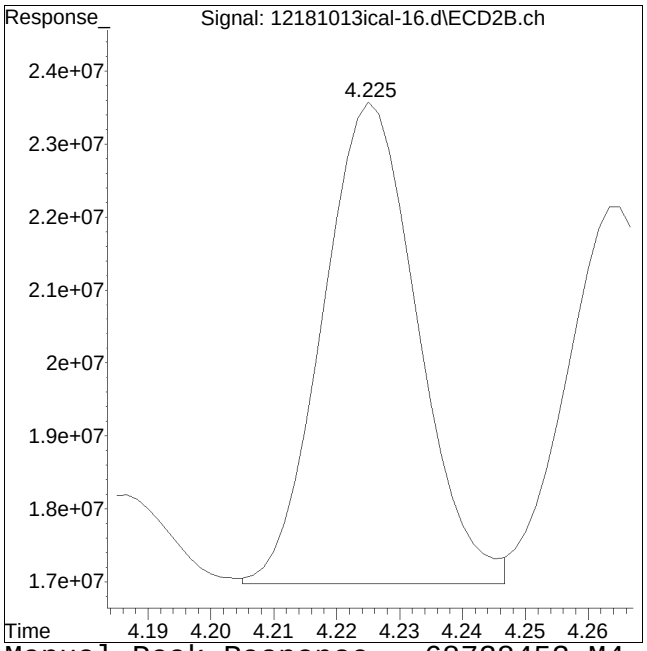
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-16.d
Date Inj'd : 10/13/2018 2:12 pm
Sample : il21248,42e,,8741

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:03 am

Compound #87: 1248-2 #2



Original Peak Response = 155403368



Manual Peak Response = 68738453 M4

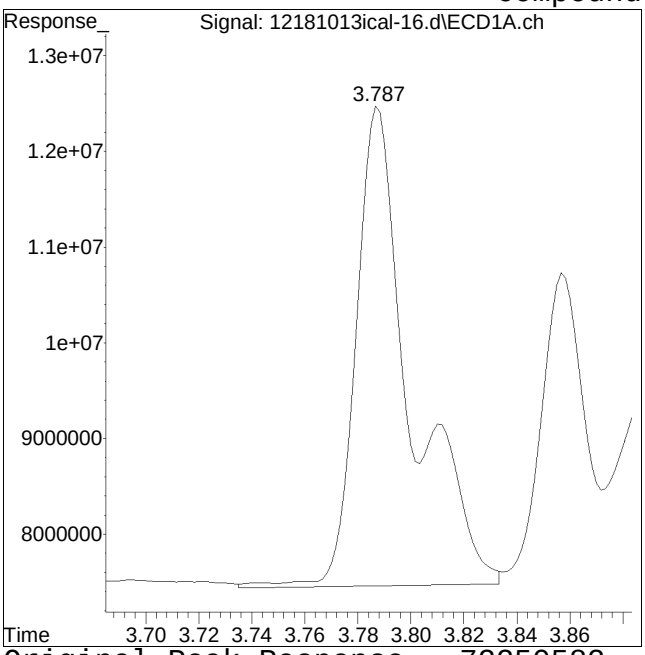
M4 = Poor automated baseline construction.

Manual Integration Report

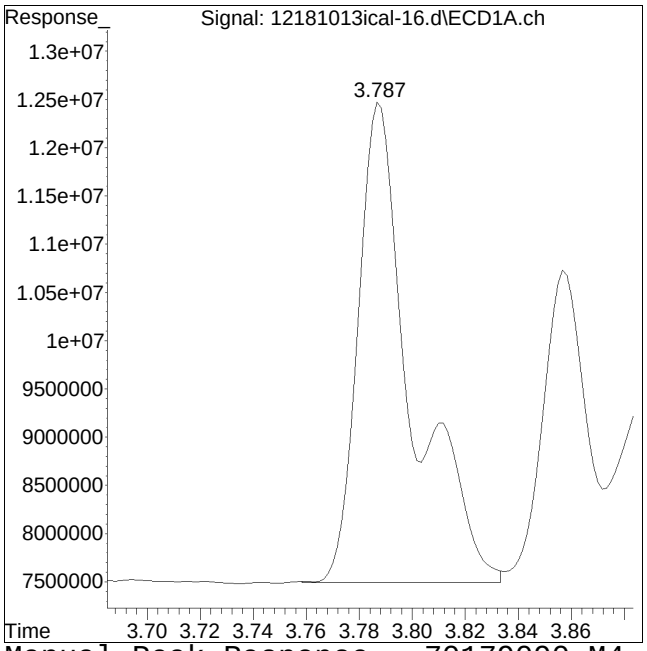
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-16.d
Date Inj'd : 10/13/2018 2:12 pm
Sample : il21248,42e,,8741

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:03 am

Compound #37: 1248-3



Original Peak Response = 72250582



Manual Peak Response = 70179090 M4

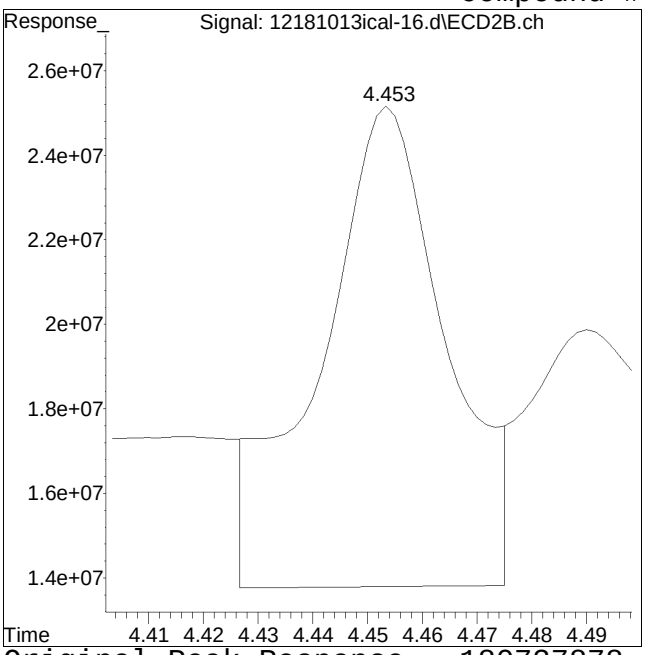
M4 = Poor automated baseline construction.

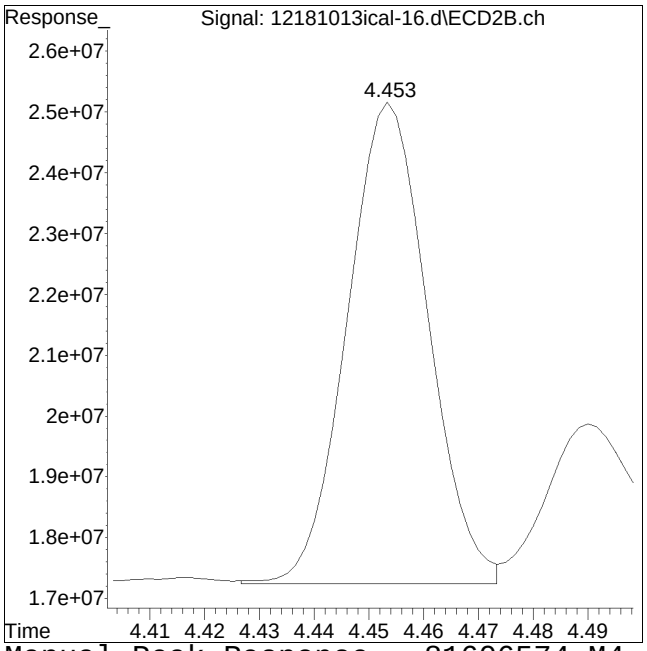
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-16.d
Date Inj'd : 10/13/2018 2:12 pm
Sample : il21248,42e,,8741

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:03 am

Compound #88: 1248-3 #2





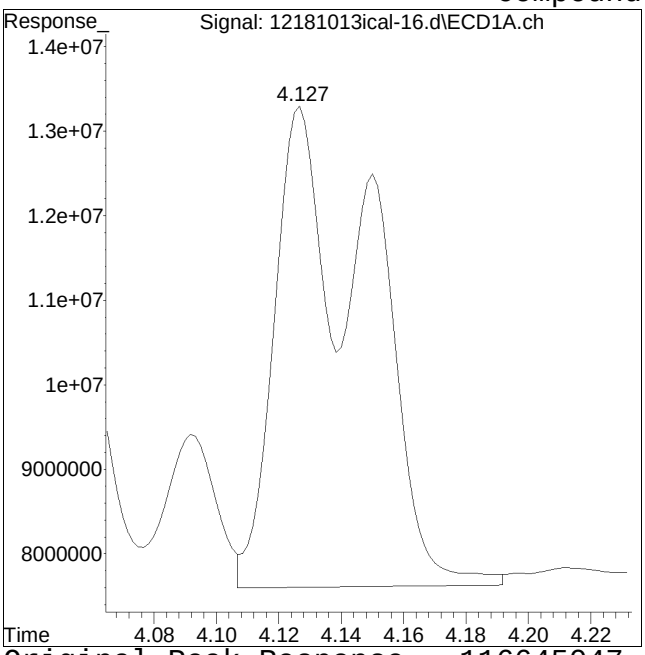
Original Peak Response = 180737878 Manual Peak Response = 81606574 M4
M4 = Poor automated baseline construction.

Manual Integration Report

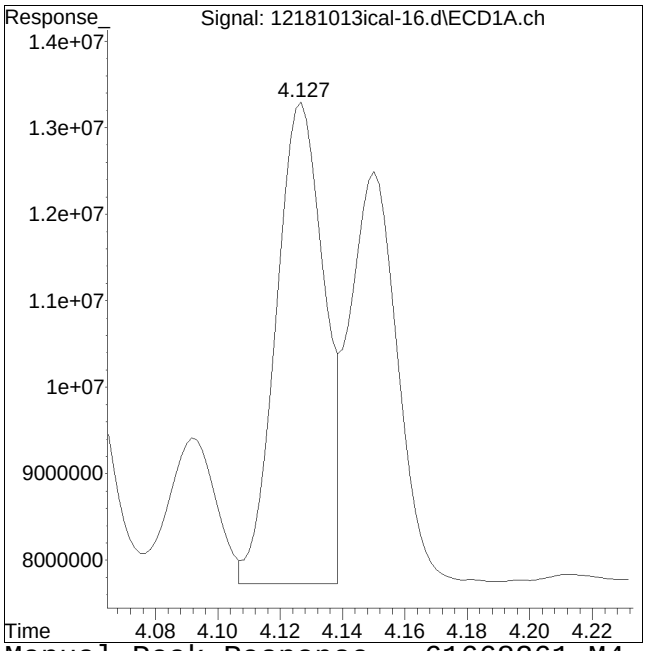
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-16.d
Date Inj'd : 10/13/2018 2:12 pm
Sample : il21248,42e,,8741

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:03 am

Compound #38: 1248-4



Original Peak Response = 116645047



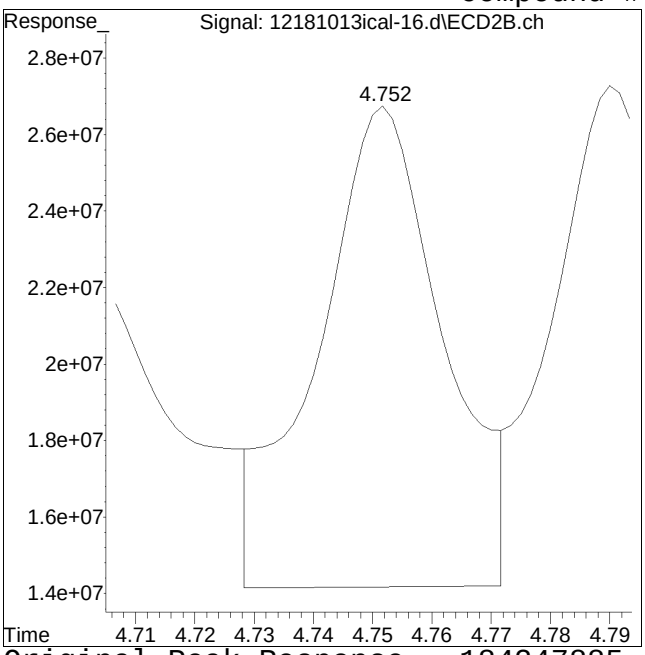
Manual Peak Response = 61668261 M4

M4 = Poor automated baseline construction.

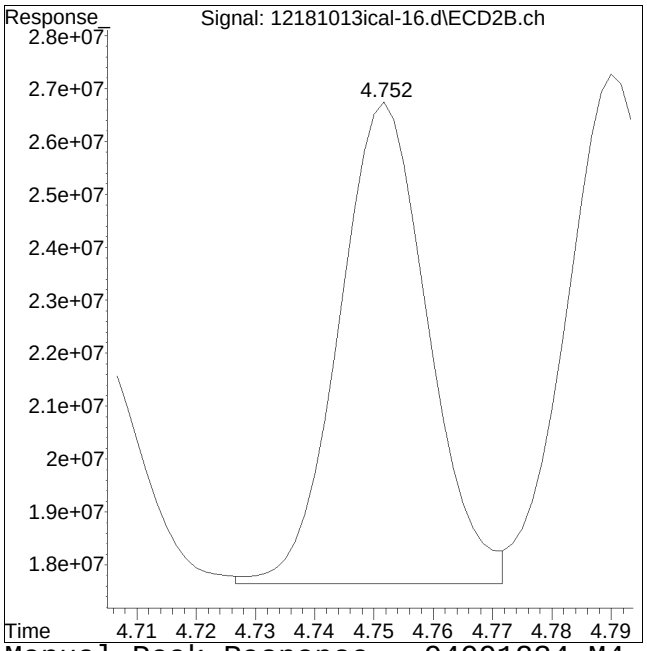
Manual Integration Report

Data Path	: I:\Pest12\181013ical\	QMethod	: P12_pcb_10-13-18_ugL_.m
Data File	: 12181013ical-16.d	Operator	: Pest12:kb
Date Inj'd	: 10/13/2018 2:12 pm	Instrument	: Pest 12
Sample	: il21248,42e,,8741	Quant Date	: 10/16/2018 10:03 am

Compound #89: 1248-4 #2



Original Peak Response = 184247885



Manual Peak Response = 94091234 M4

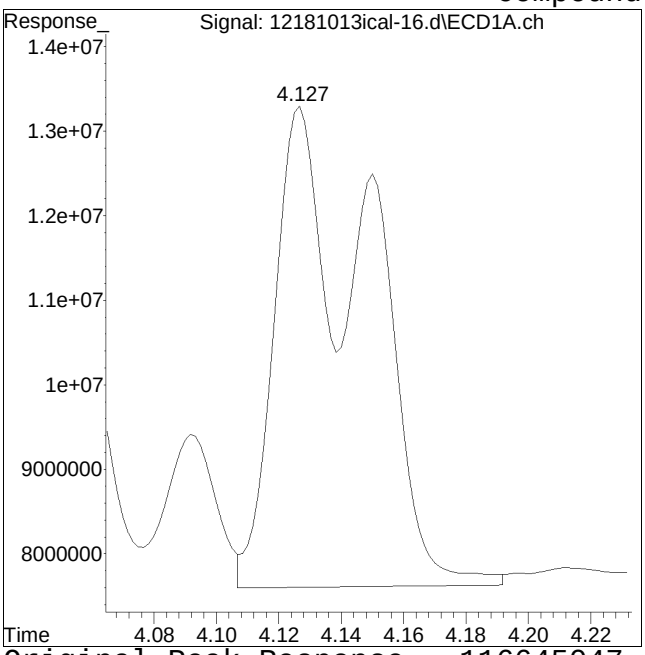
M4 = Poor automated baseline construction.

Manual Integration Report

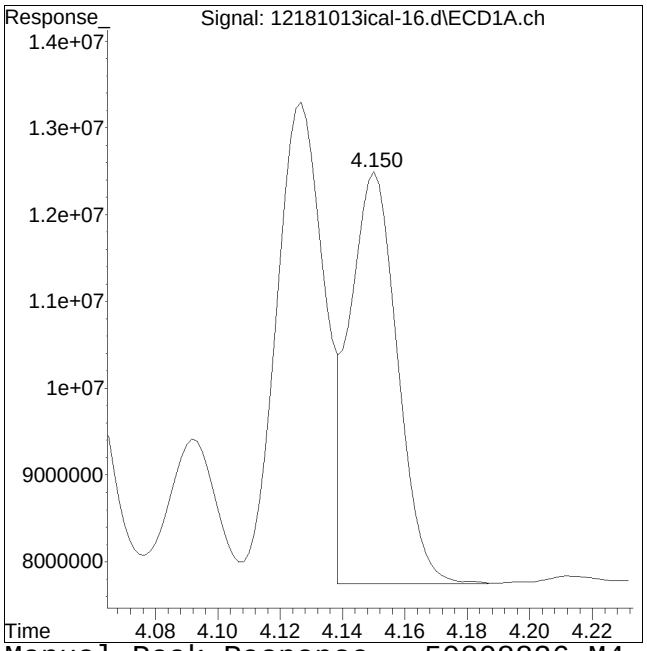
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-16.d
Date Inj'd : 10/13/2018 2:12 pm
Sample : il21248,42e,,8741

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:03 am

Compound #39: 1248-5



Original Peak Response = 116645047



Manual Peak Response = 50808826 M4

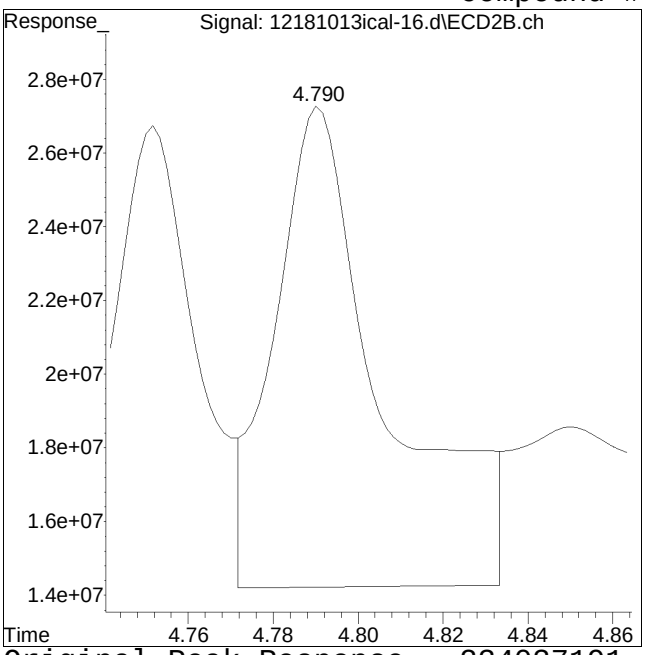
M4 = Poor automated baseline construction.

Manual Integration Report

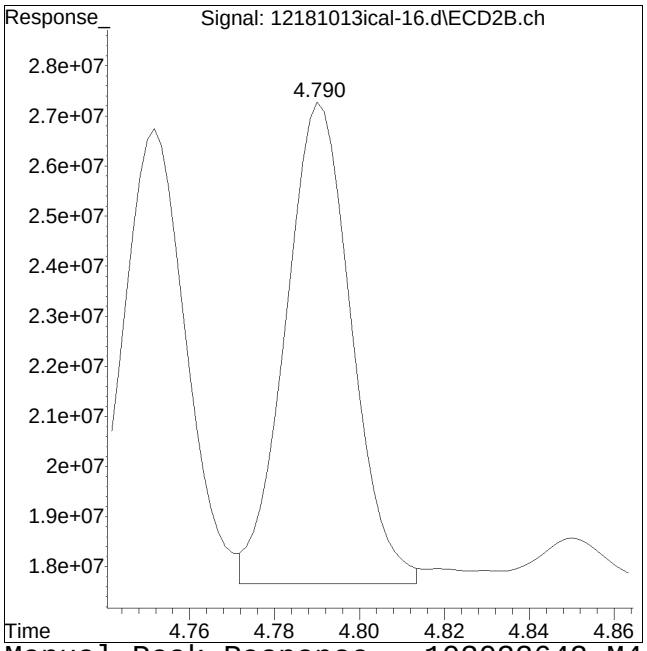
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-16.d
Date Inj'd : 10/13/2018 2:12 pm
Sample : il21248,42e,,8741

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 10:03 am

Compound #90: 1248-5 #2



Original Peak Response = 234037191



Manual Peak Response = 103033642 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-17.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 2:24 pm
Operator : Pest12:kb
Sample : il31248,42e,,8742
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 10:03:16 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 09:53:17 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	2.070	2.224	757.8E6	1298.6E6	250.000	250.000
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	500.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	500.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-17.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 2:24 pm
Operator : Pest12:kb
Sample : il31248,42e,,8742
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 10:03:16 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 09:53:17 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	3.350	3.933	64605446	109.8E6	1105.032	929.303M4
36) l7	1248-2	3.607	4.225	86291705	131.0E6	1097.824	991.056M4
37) l7	1248-3	3.788	4.453	131.5E6	154.7E6	1106.221	978.155M4
38) l7	1248-4	4.126	4.751	117.8E6	183.0E6	1135.000	1006.627M4
39) l7	1248-5	4.149	4.790	101.7E6	202.5E6	1150.291	1016.171M4
Sum	1248-1			501.9E6	781.0E6	NoCal	NoCal D

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-17.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 2:24 pm
Operator : Pest12:kb
Sample : il31248,42e,,8742
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 10:03:16 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 09:53:17 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1248-1					1118.873	984.262
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

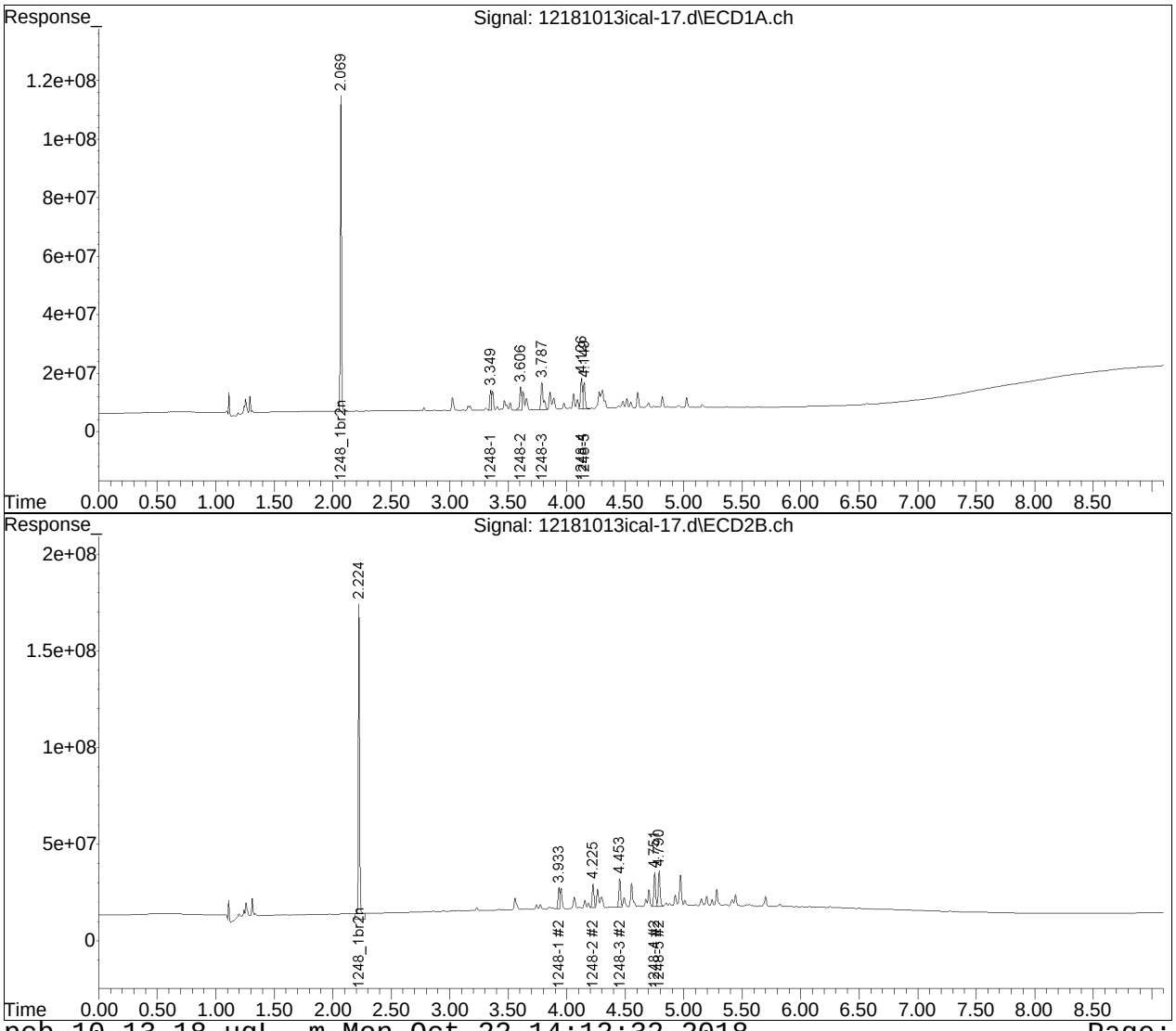
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-17.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 2:24 pm
Operator : Pest12:kb
Sample : il31248,42e,,8742
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 10:03:16 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 09:53:17 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

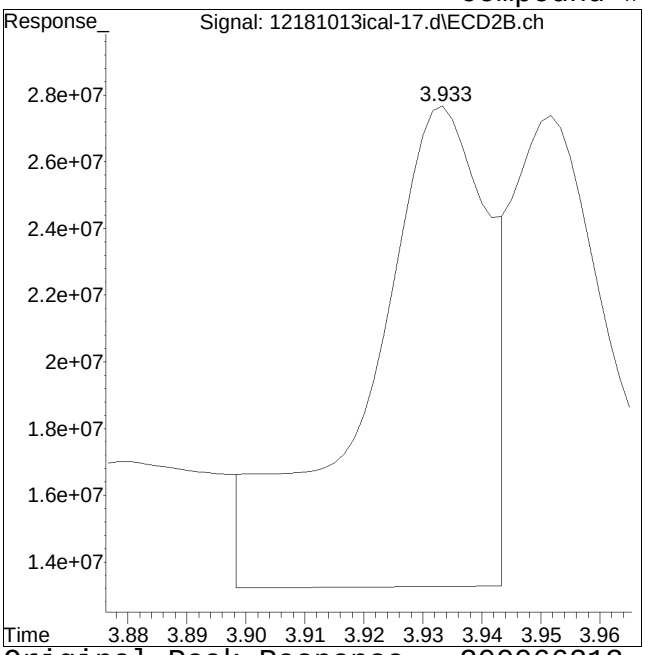


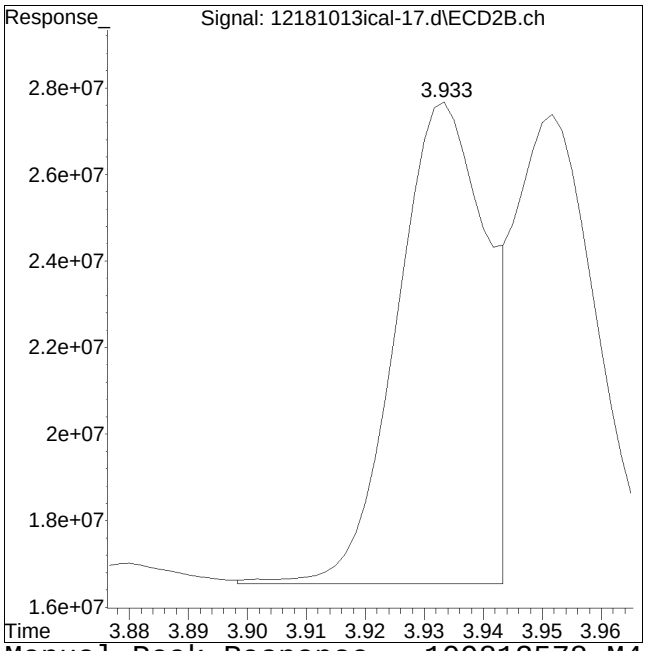
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-17.d
Date Inj'd : 10/13/2018 2:24 pm
Sample : il31248,42e,,8742

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:53 am

Compound #86: 1248-1 #2





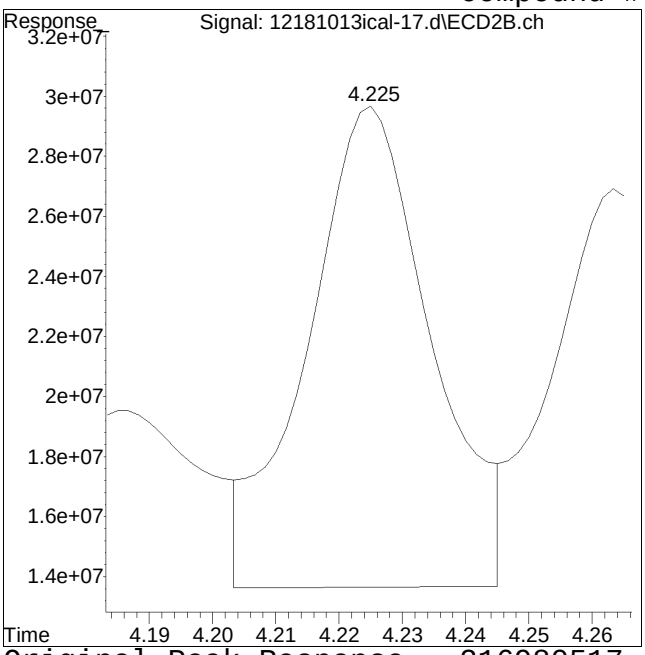
Original Peak Response = 200066213 Manual Peak Response = 109813578 M4
M4 = Poor automated baseline construction.

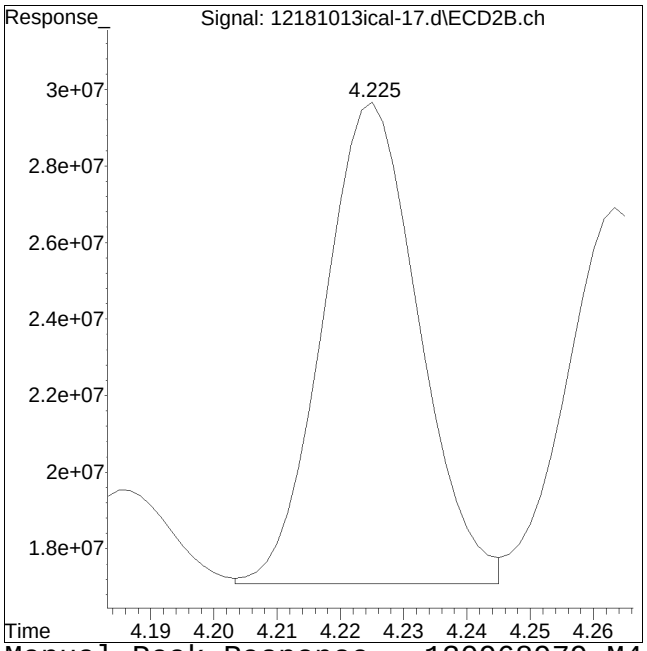
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-17.d
Date Inj'd : 10/13/2018 2:24 pm
Sample : il31248,42e,,8742

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:53 am

Compound #87: 1248-2 #2





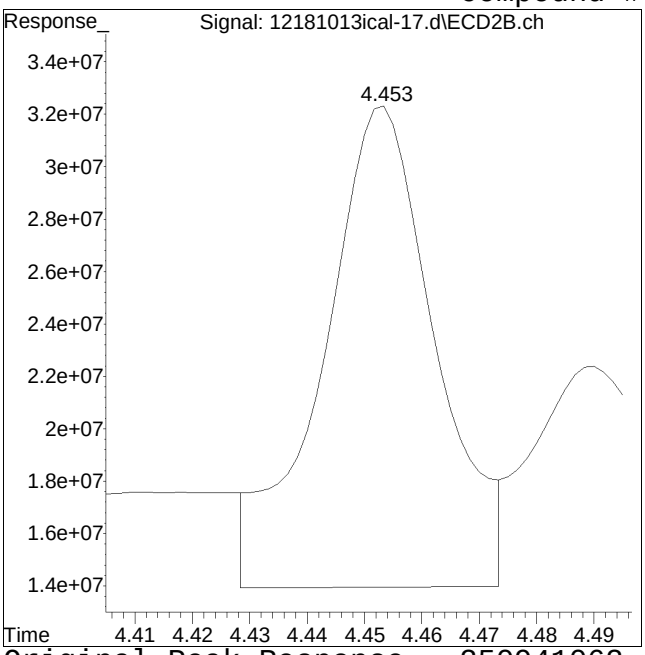
Original Peak Response = 216980517 Manual Peak Response = 130968979 M4
M4 = Poor automated baseline construction.

Manual Integration Report

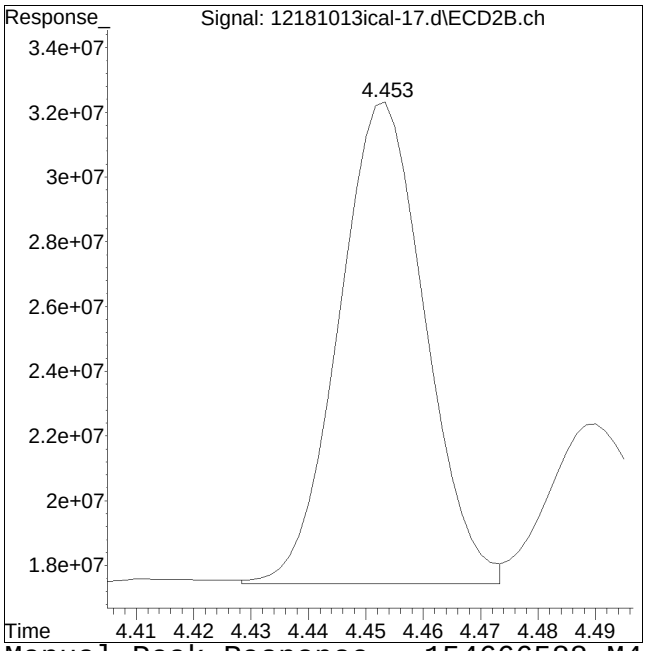
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-17.d
Date Inj'd : 10/13/2018 2:24 pm
Sample : il31248,42e,,8742

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:53 am

Compound #88: 1248-3 #2



Original Peak Response = 250941062



Manual Peak Response = 154666588 M4

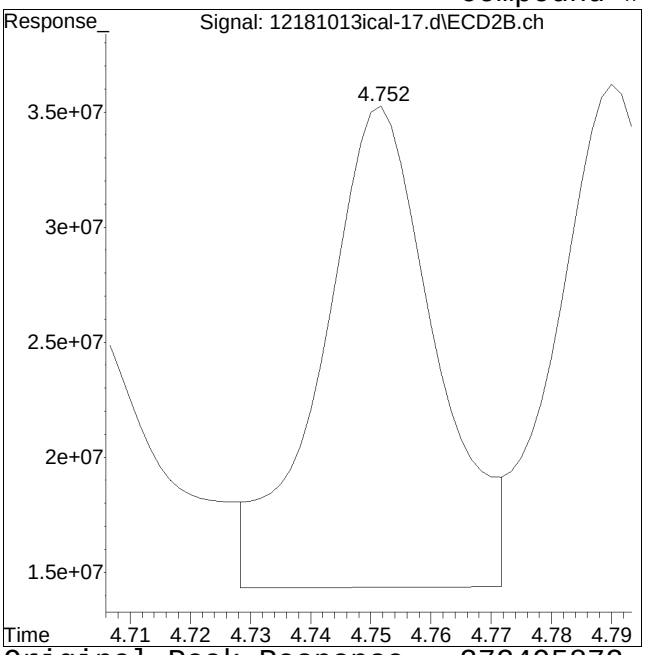
M4 = Poor automated baseline construction.

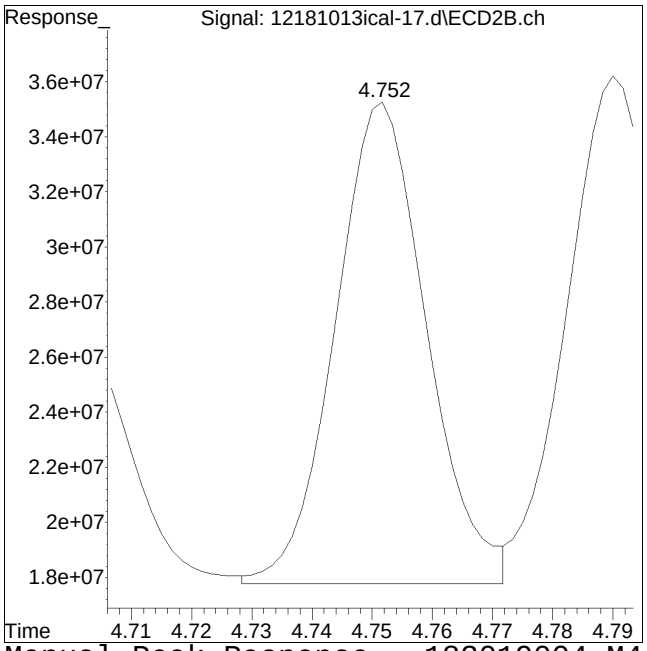
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-17.d
Date Inj'd : 10/13/2018 2:24 pm
Sample : il31248,42e,,8742

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:53 am

Compound #89: 1248-4 #2





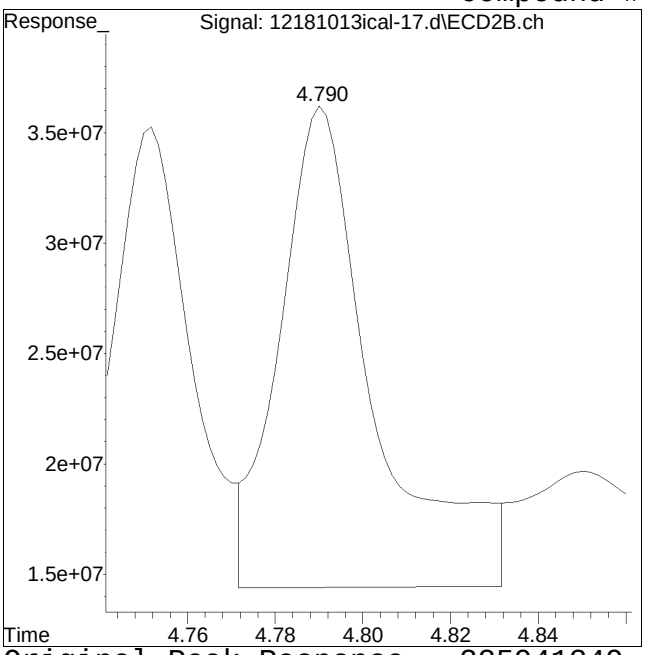
Original Peak Response = 272495872 Manual Peak Response = 183019004 M4
M4 = Poor automated baseline construction.

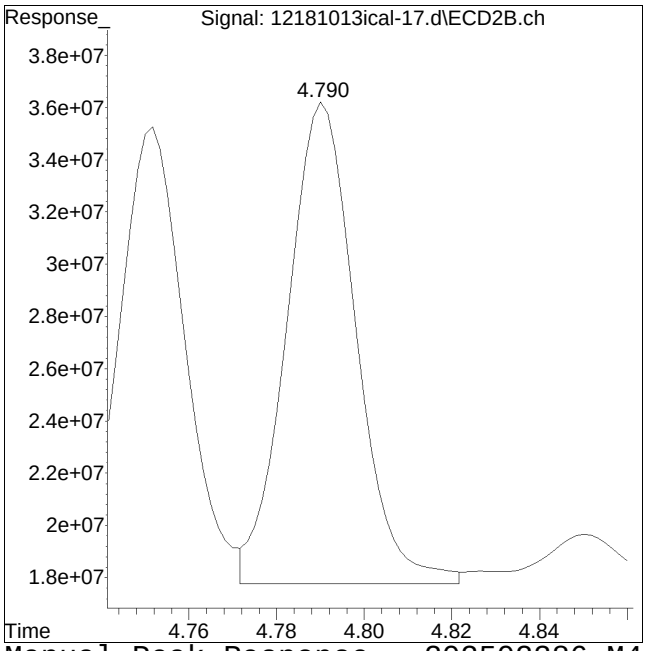
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-17.d
Date Inj'd : 10/13/2018 2:24 pm
Sample : il31248,42e,,8742

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:53 am

Compound #90: 1248-5 #2





Original Peak Response = 325941349 Manual Peak Response = 202502386 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-18.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 2:36 pm
Operator : Pest12:kb
Sample : il41248,42e,,8743
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 09:47:28 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 09:44:09 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	2.070	2.224	802.6E6	1216.6E6	250.000	250.000M4
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	500.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	500.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-18.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 2:36 pm
Operator : Pest12:kb
Sample : il41248,42e,,8743
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 09:47:28 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 09:44:09 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	3.348	3.933	165.4E6	275.9E6	NoCal M3	NoCal M4
36) l7	1248-2	3.605	4.224	221.1E6	319.0E6	NoCal M3	NoCal M4
37) l7	1248-3	3.787	4.452	325.5E6	377.4E6	NoCal	NoCal M4
38) l7	1248-4	4.125	4.751	276.6E6	439.3E6	NoCal M3	NoCal M4

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-18.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 2:36 pm
Operator : Pest12:kb
Sample : il41248,42e,,8743
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 09:47:28 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 09:44:09 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
39) l7	1248-5	4.149	4.790	232.3E6	483.6E6	NoCal M3	NoCal M4
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

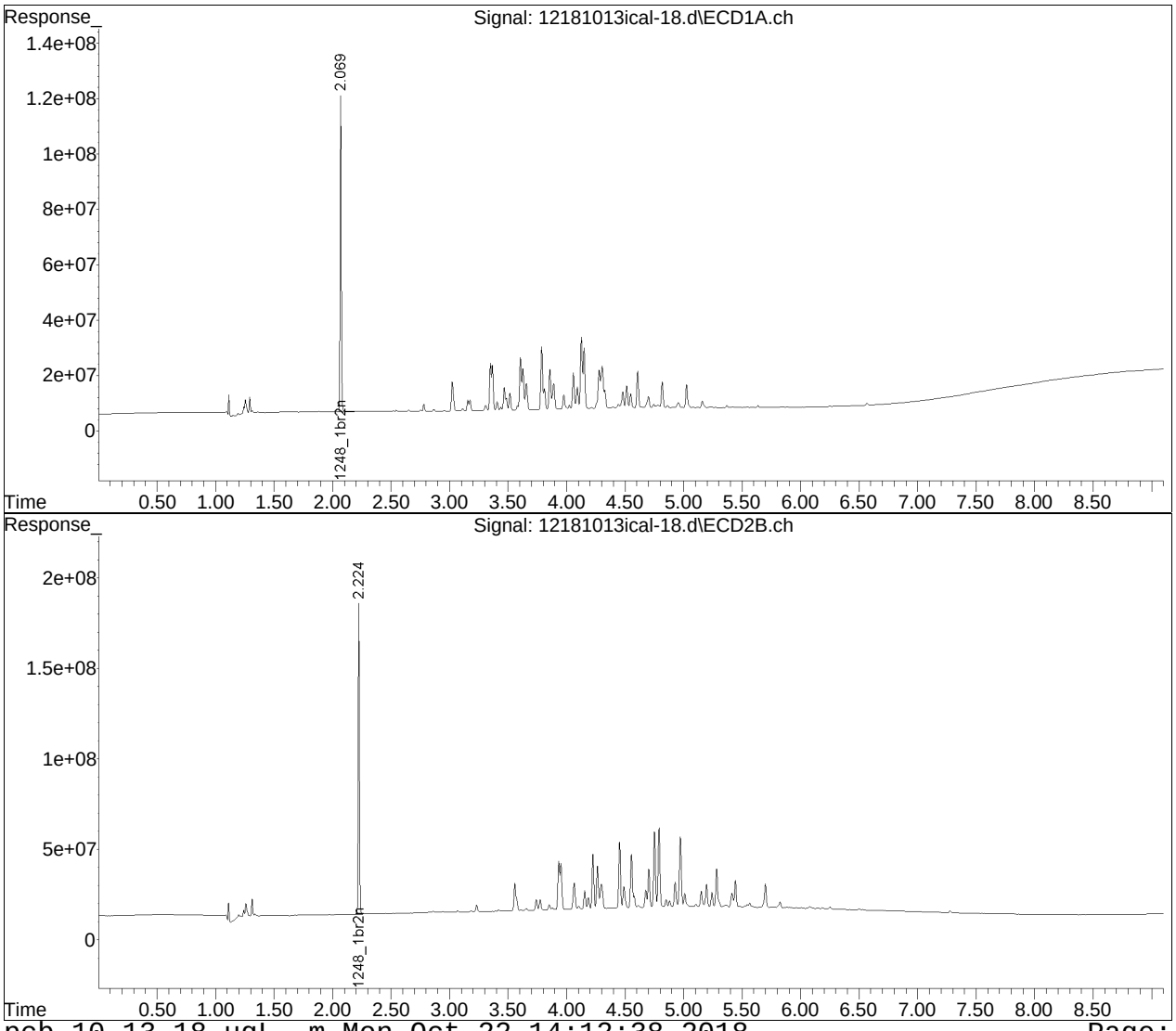
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-18.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 2:36 pm
Operator : Pest12:kb
Sample : il41248,42e,,8743
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 09:47:28 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 09:44:09 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

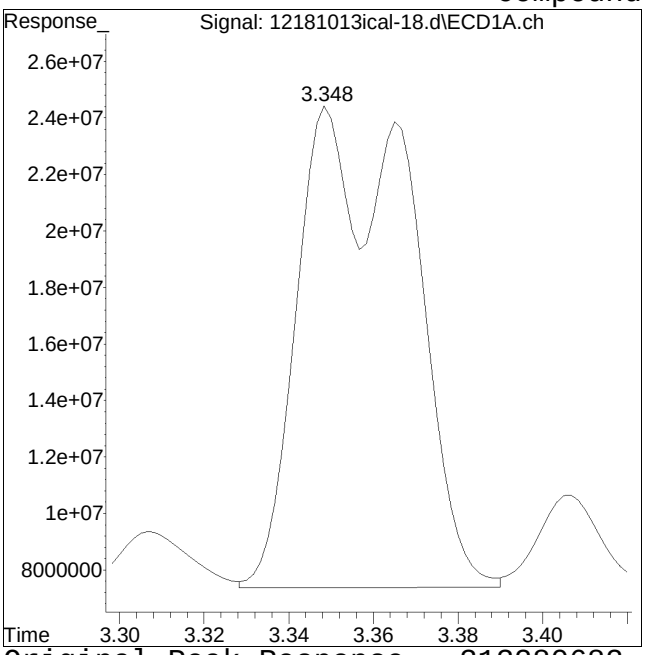


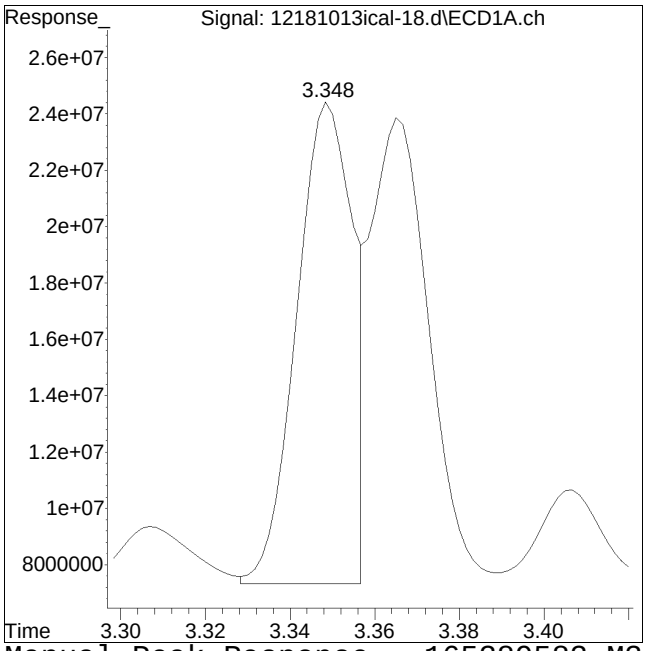
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-18.d
Date Inj'd : 10/13/2018 2:36 pm
Sample : il41248,42e,,8743

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:44 am

Compound #35: 1248-1





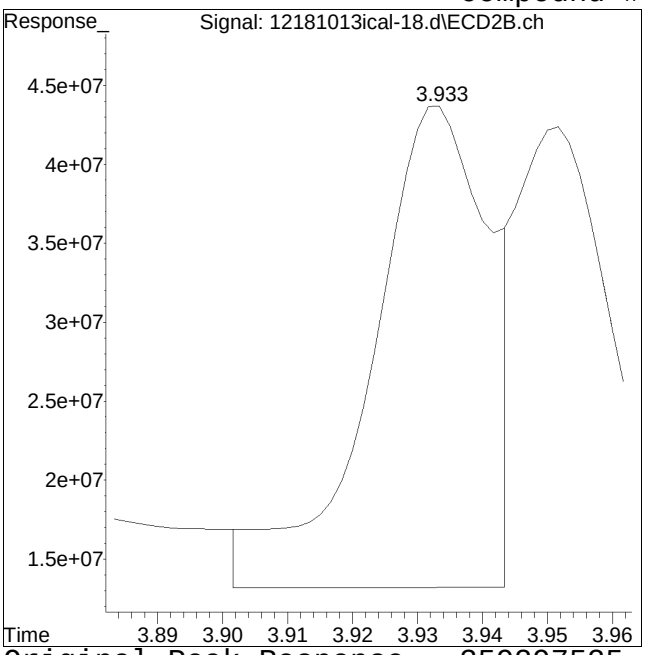
Original Peak Response = 313280682 Manual Peak Response = 165389583 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

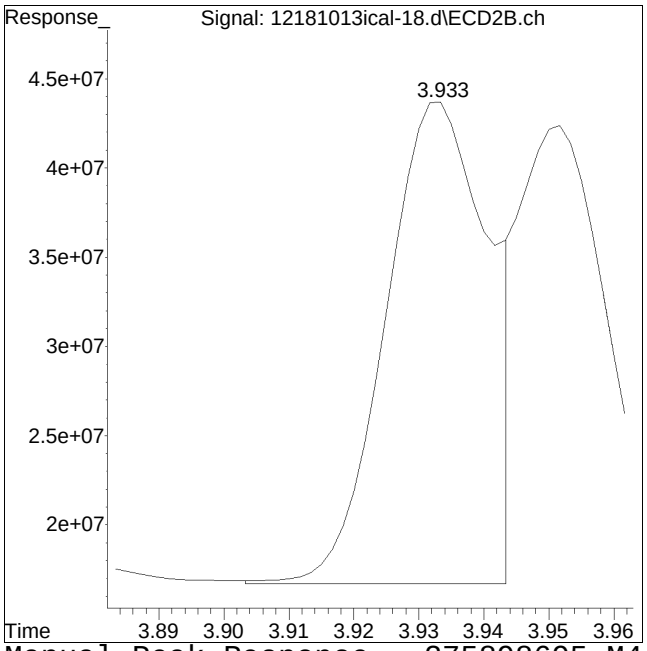
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-18.d
Date Inj'd : 10/13/2018 2:36 pm
Sample : il41248,42e,,8743

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:44 am

Compound #86: 1248-1 #2





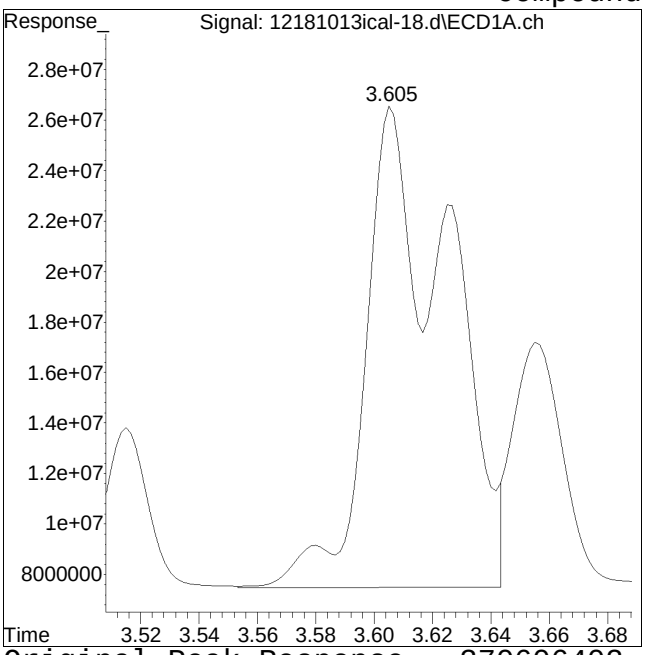
Original Peak Response = 359297525 Manual Peak Response = 275898695 M4
M4 = Poor automated baseline construction.

Manual Integration Report

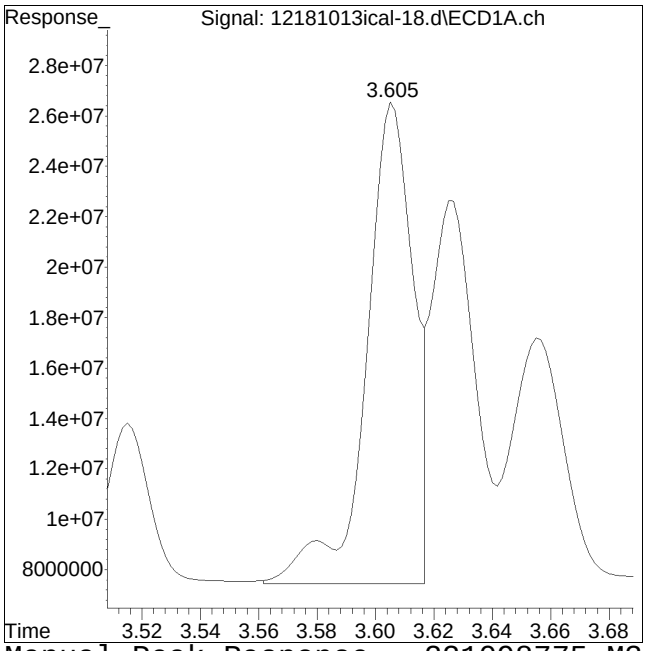
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-18.d
Date Inj'd : 10/13/2018 2:36 pm
Sample : il41248,42e,,8743

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:44 am

Compound #36: 1248-2



Original Peak Response = 370606402



Manual Peak Response = 221098775 M3

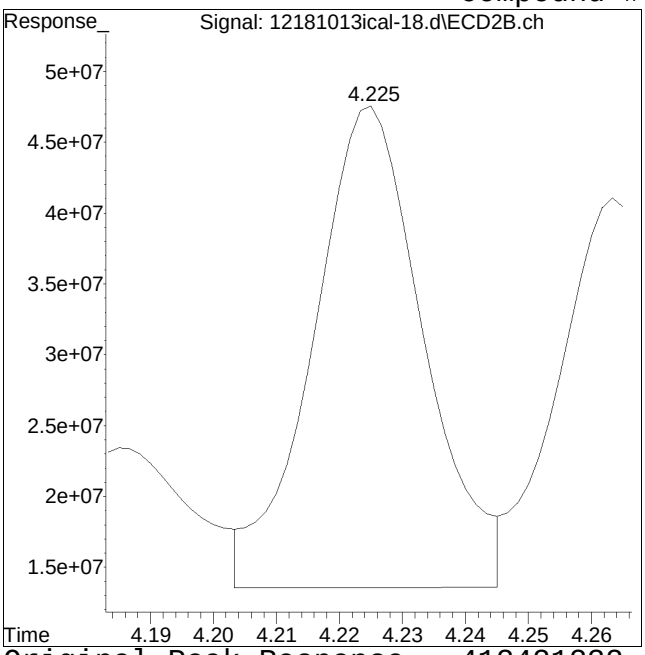
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

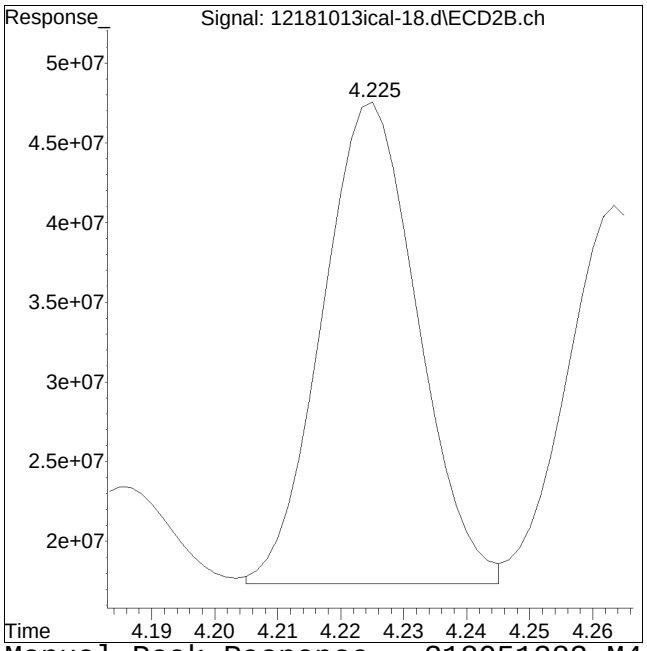
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-18.d
Date Inj'd : 10/13/2018 2:36 pm
Sample : il41248,42e,,8743

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:44 am

Compound #87: 1248-2 #2





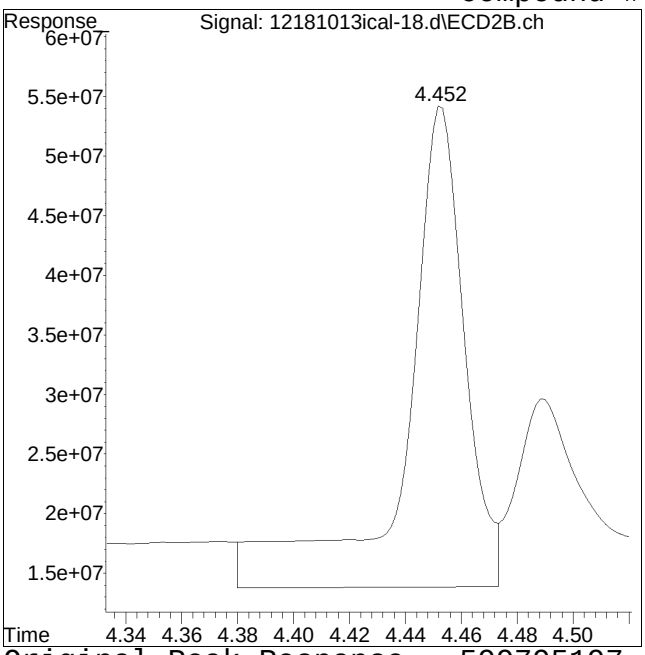
Original Peak Response = 412421232 Manual Peak Response = 318951283 M4
M4 = Poor automated baseline construction.

Manual Integration Report

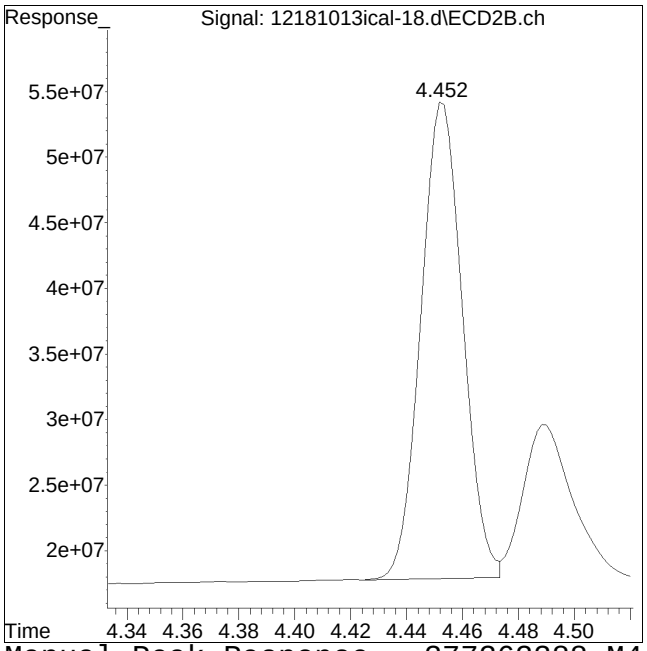
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-18.d
Date Inj'd : 10/13/2018 2:36 pm
Sample : il41248,42e,,8743

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:44 am

Compound #88: 1248-3 #2



Original Peak Response = 599795197



Manual Peak Response = 377363388 M4

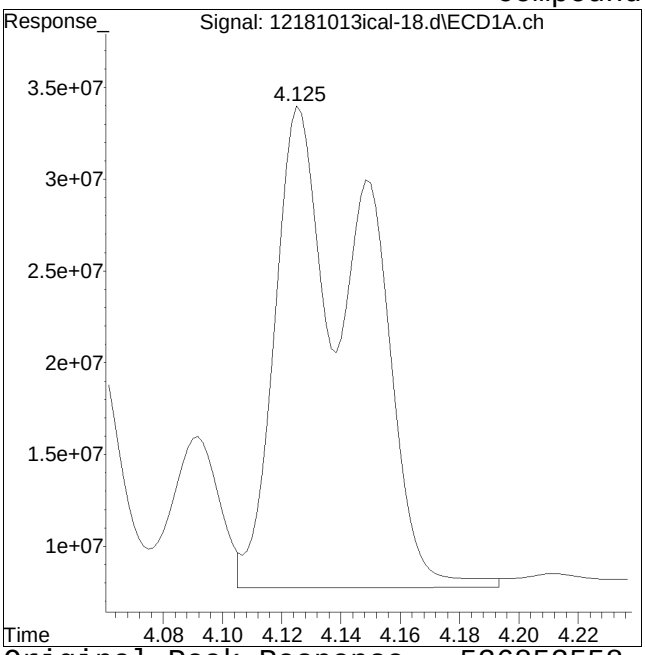
M4 = Poor automated baseline construction.

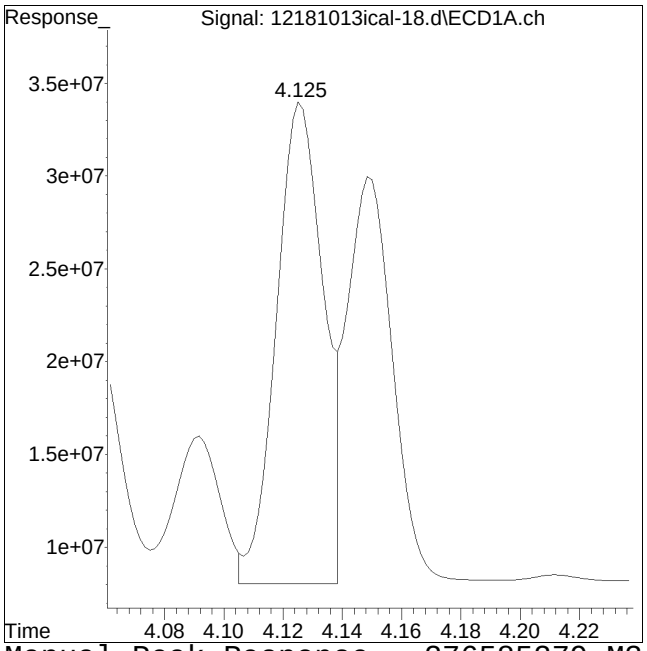
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-18.d
Date Inj'd : 10/13/2018 2:36 pm
Sample : il41248,42e,,8743

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:44 am

Compound #38: 1248-4





Original Peak Response = 536853558 Manual Peak Response = 276585279 M3

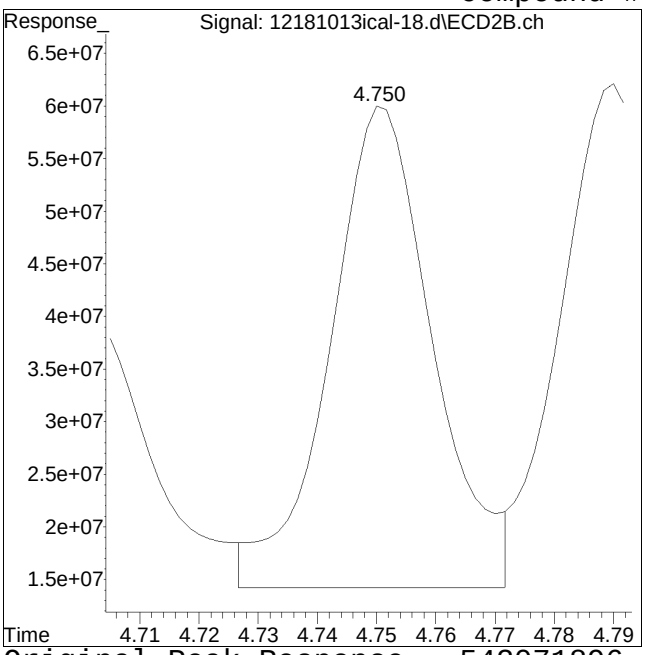
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

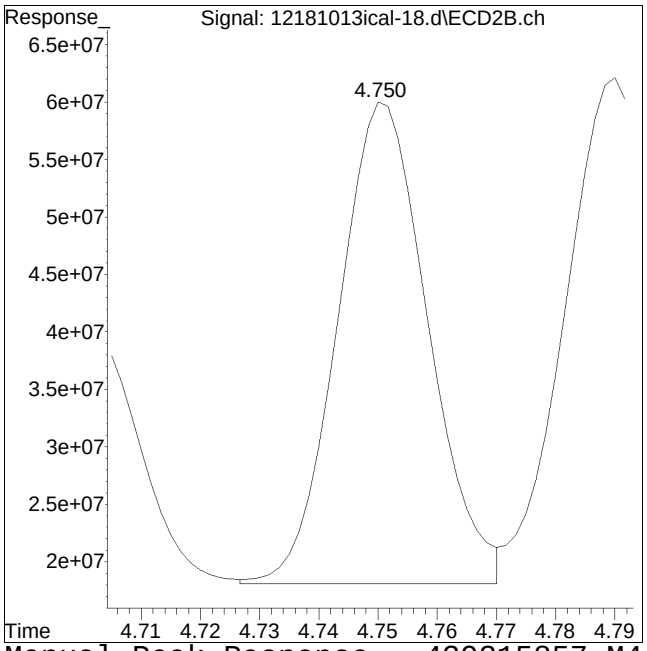
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-18.d
Date Inj'd : 10/13/2018 2:36 pm
Sample : il41248,42e,,8743

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:44 am

Compound #89: 1248-4 #2





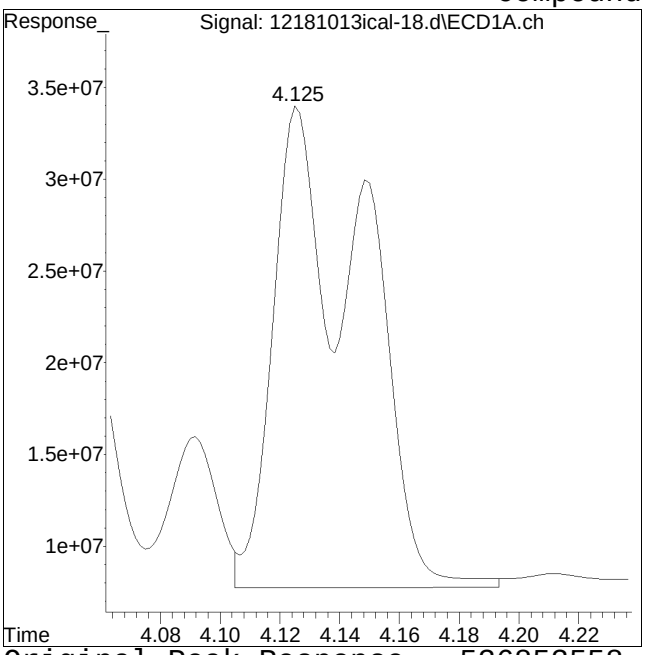
Original Peak Response = 542071896 Manual Peak Response = 439315857 M4
M4 = Poor automated baseline construction.

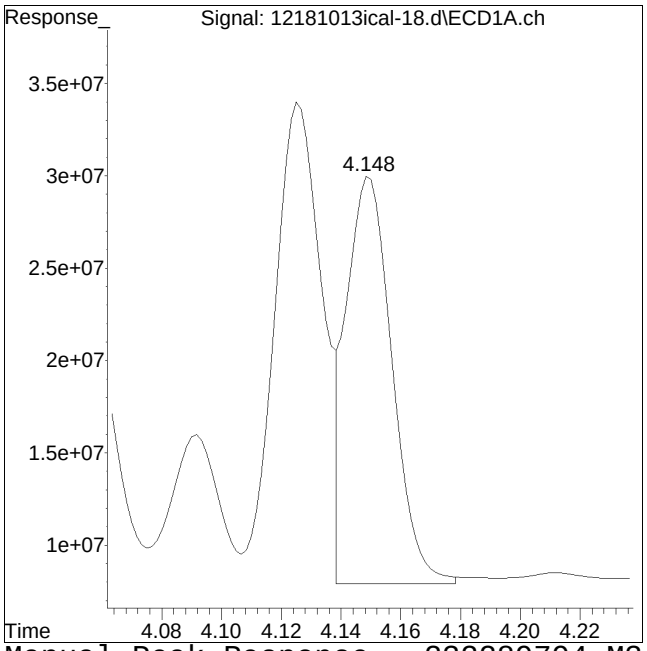
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-18.d
Date Inj'd : 10/13/2018 2:36 pm
Sample : il41248,42e,,8743

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:44 am

Compound #39: 1248-5





Original Peak Response = 536853558 Manual Peak Response = 232289794 M3

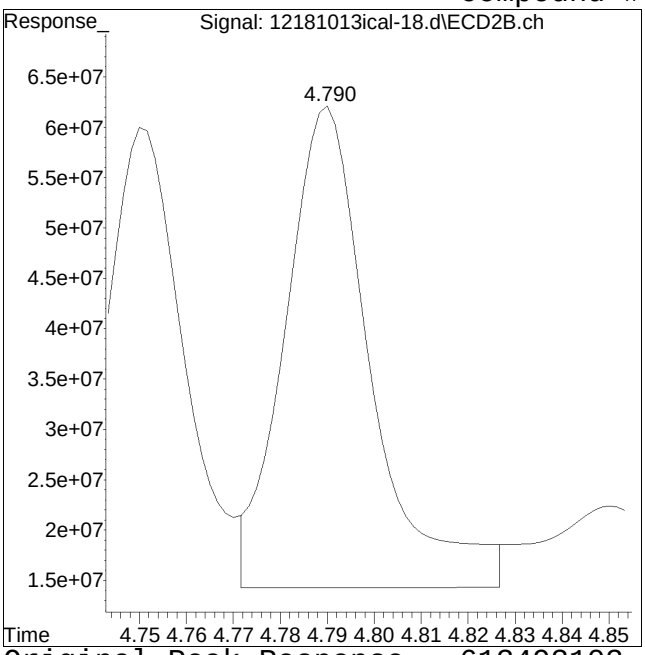
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

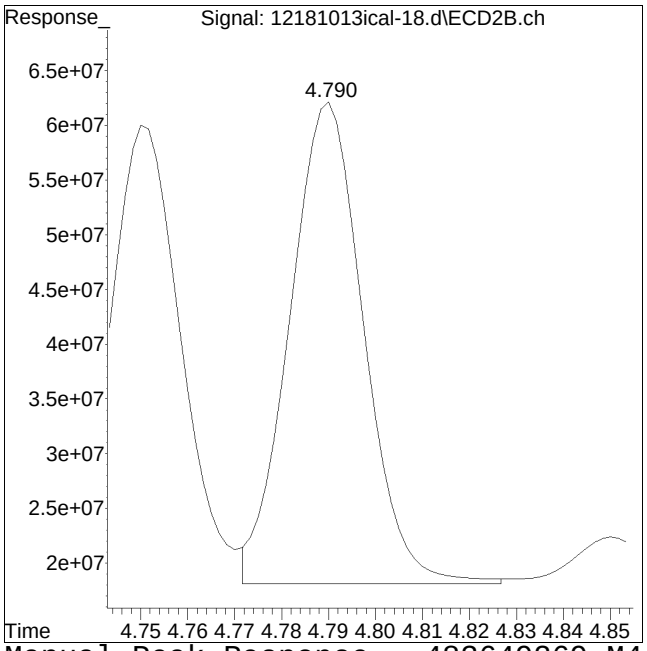
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-18.d
Date Inj'd : 10/13/2018 2:36 pm
Sample : il41248,42e,,8743

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:44 am

Compound #90: 1248-5 #2





Original Peak Response = 613493103 Manual Peak Response = 483649269 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-19.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 2:49 pm
Operator : Pest12:kb
Sample : il51248,42e,,8744
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 09:50:19 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 09:47:41 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	2.070	2.223	783.0E6	1192.4E6	250.000	250.000M4
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	500.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	500.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-19.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 2:49 pm
Operator : Pest12:kb
Sample : il51248,42e,,8744
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 09:50:19 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 09:47:41 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	3.349	3.933	281.3E6	504.7E6	4357.946	4665.959M4
36) l7	1248-2	3.606	4.225	378.0E6	574.4E6	4380.491	4593.304M4
37) l7	1248-3	3.787	4.452	579.5E6	686.5E6	4561.868	4640.458M4
38) l7	1248-4	4.126	4.751	511.6E6	786.4E6	4740.134	4565.586M4
39) l7	1248-5	4.149	4.790	441.5E6	855.9E6	4870.941	4513.791M4
Sum	1248-1			2191.9E6	3407.9E6	NoCal	NoCal D

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-19.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 2:49 pm
Operator : Pest12:kb
Sample : il51248,42e,,8744
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 09:50:19 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 09:47:41 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1248-1					4582.276	4595.820
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

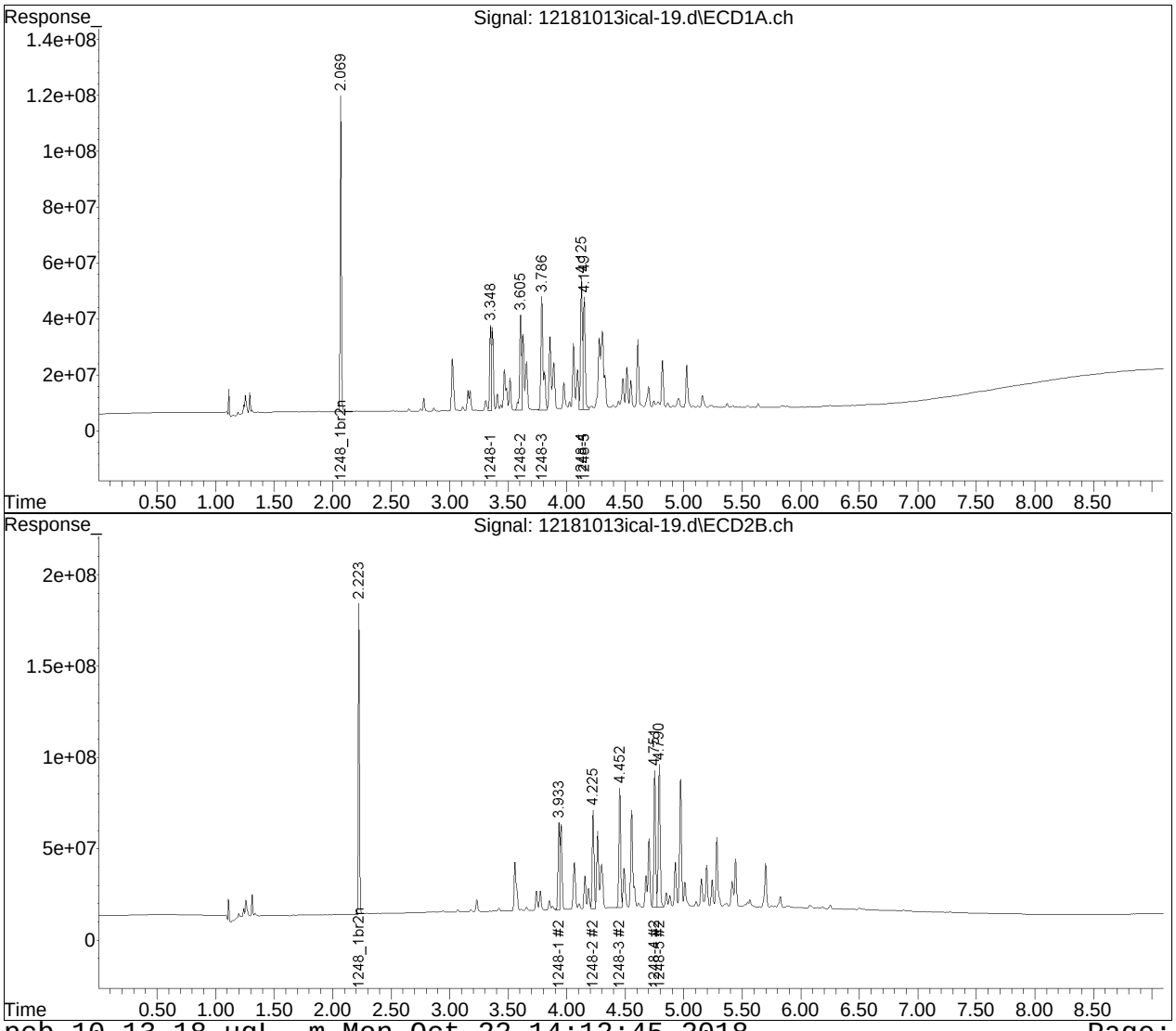
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-19.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 2:49 pm
Operator : Pest12:kb
Sample : il51248,42e,,8744
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 09:50:19 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 09:47:41 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

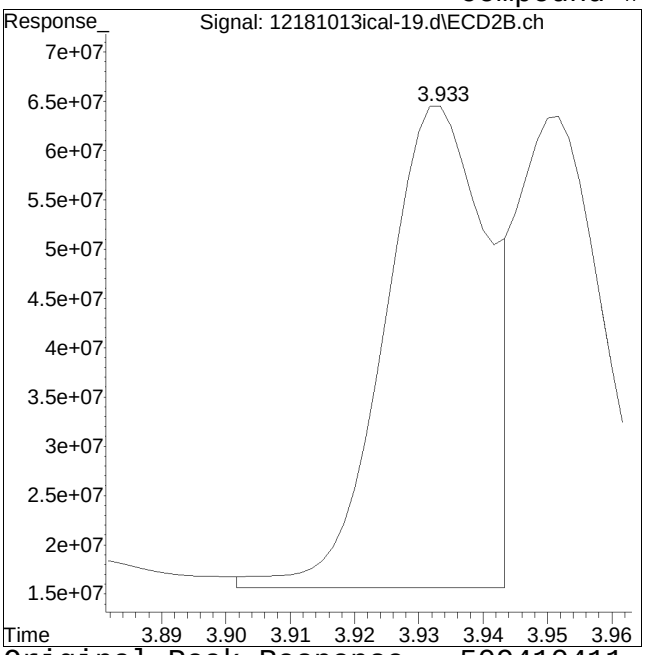


Manual Integration Report

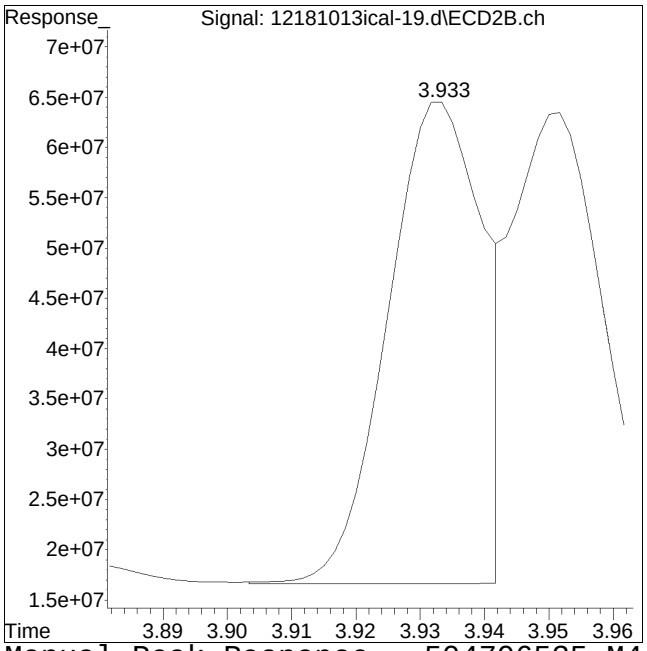
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-19.d
Date Inj'd : 10/13/2018 2:49 pm
Sample : il51248,42e,,8744

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:48 am

Compound #86: 1248-1 #2



Original Peak Response = 509410411



Manual Peak Response = 504706535 M4

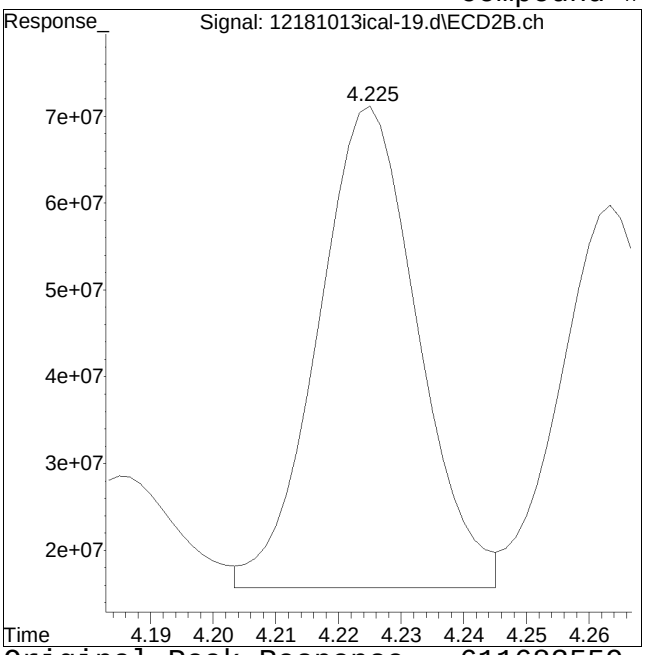
M4 = Poor automated baseline construction.

Manual Integration Report

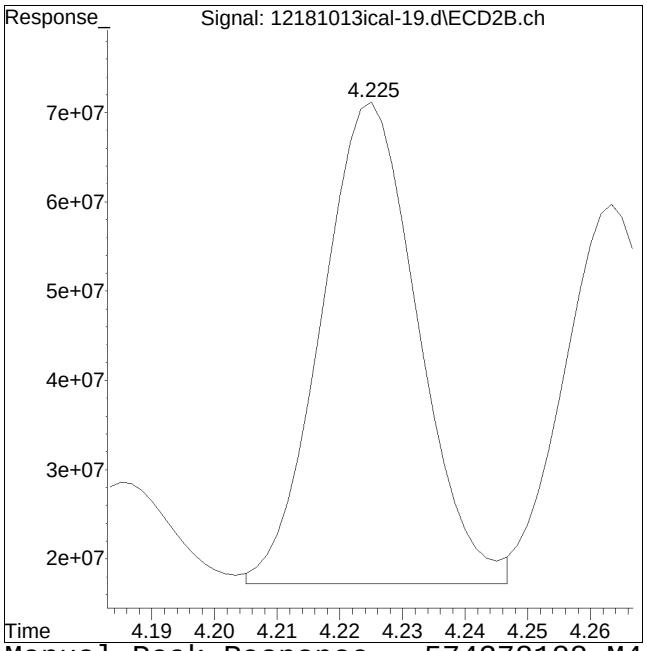
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-19.d
Date Inj'd : 10/13/2018 2:49 pm
Sample : il51248,42e,,8744

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:48 am

Compound #87: 1248-2 #2



Original Peak Response = 611683559



Manual Peak Response = 574378188 M4

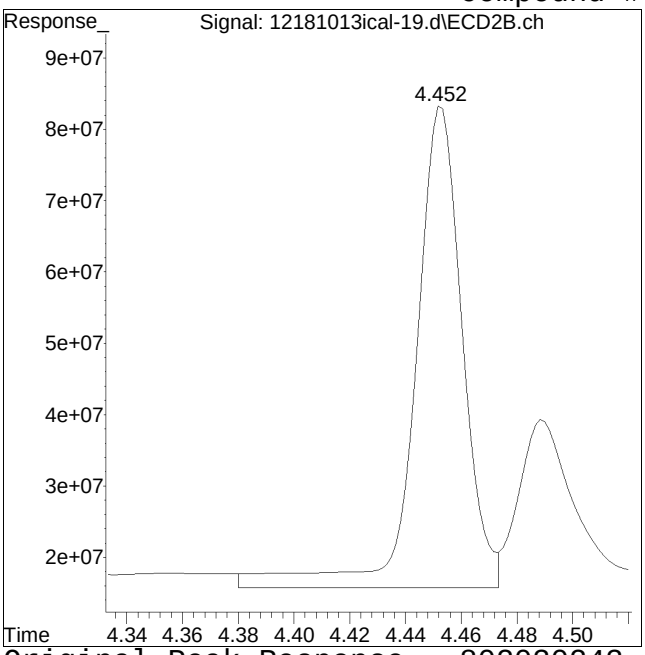
M4 = Poor automated baseline construction.

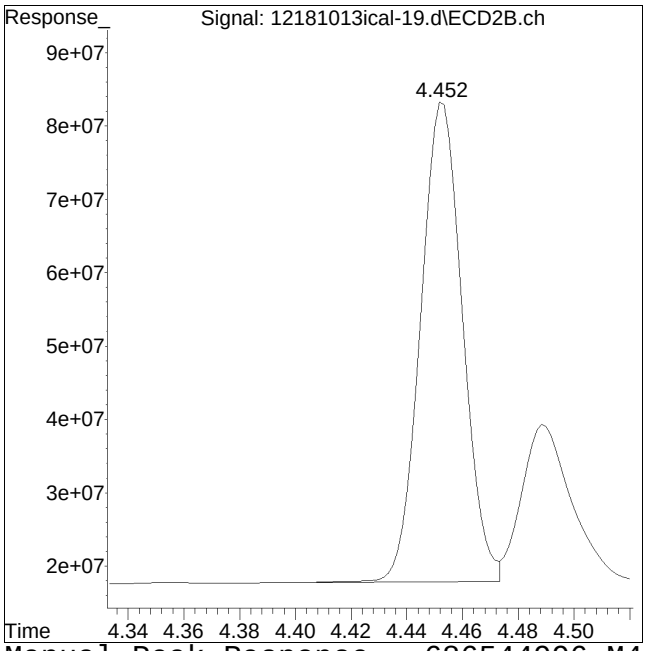
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-19.d
Date Inj'd : 10/13/2018 2:49 pm
Sample : il51248,42e,,8744

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:48 am

Compound #88: 1248-3 #2





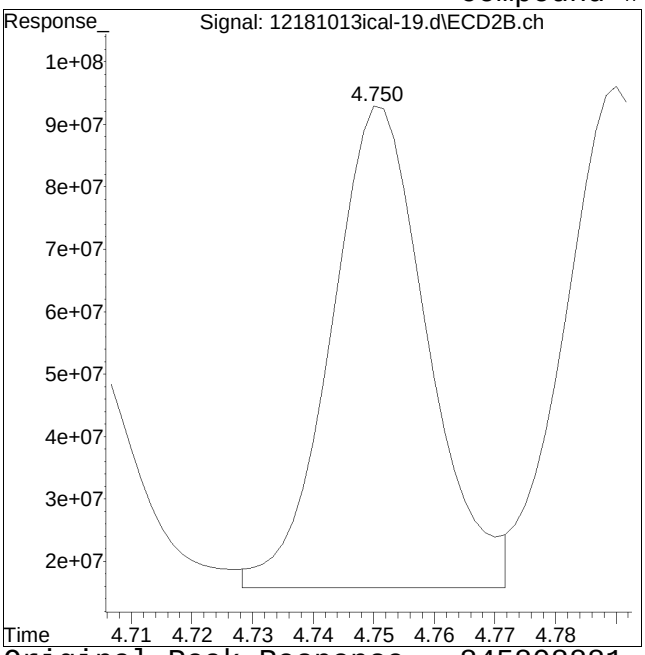
Original Peak Response = 802030243 Manual Peak Response = 686544996 M4
M4 = Poor automated baseline construction.

Manual Integration Report

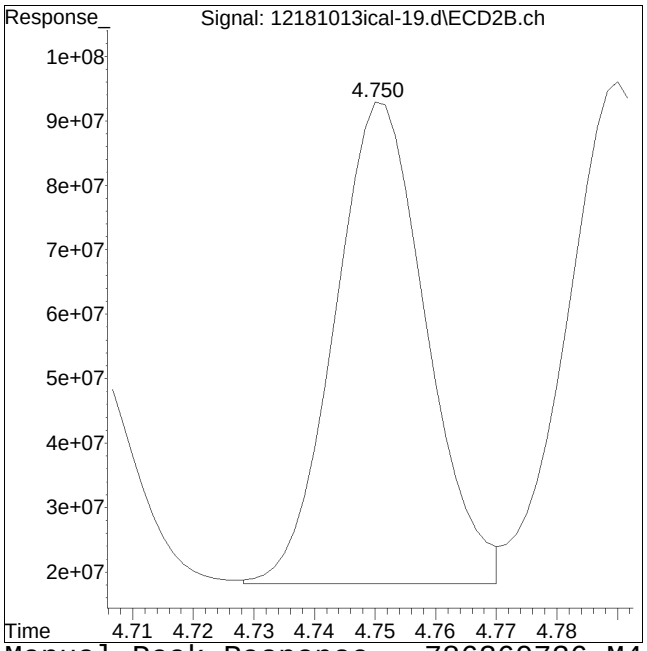
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-19.d
Date Inj'd : 10/13/2018 2:49 pm
Sample : il51248,42e,,8744

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:48 am

Compound #89: 1248-4 #2



Original Peak Response = 845808881



Manual Peak Response = 786360736 M4

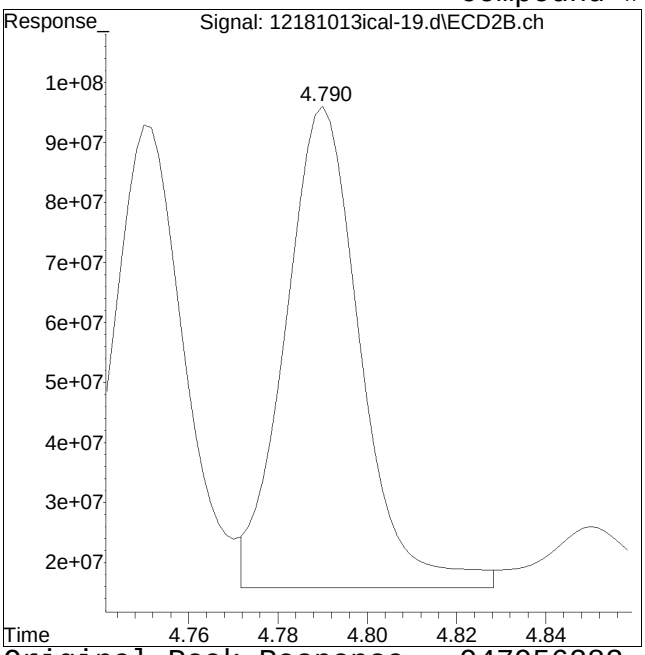
M4 = Poor automated baseline construction.

Manual Integration Report

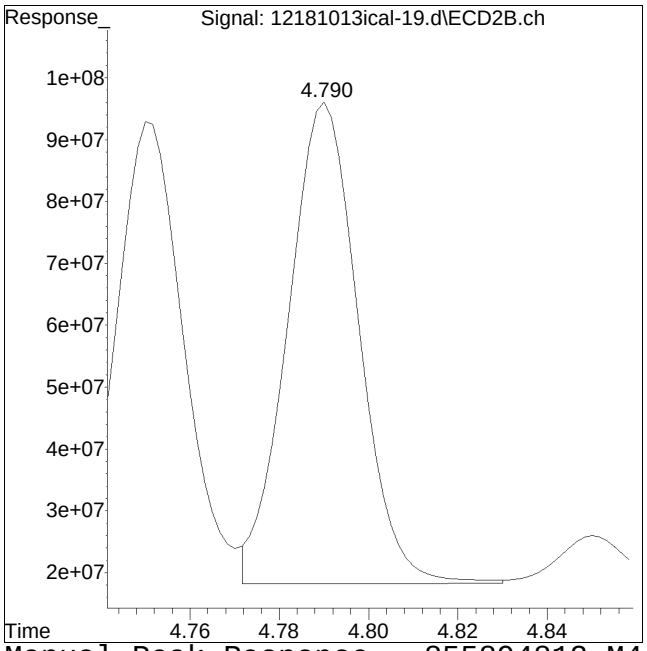
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-19.d
Date Inj'd : 10/13/2018 2:49 pm
Sample : il51248,42e,,8744

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:48 am

Compound #90: 1248-5 #2



Original Peak Response = 947956283



Manual Peak Response = 855894812 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-20.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 3:01 pm
Operator : Pest12:kb
Sample : il61248,42e,,8745
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 09:53:10 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 09:50:26 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	2.070	2.224	753.4E6	1140.4E6	250.000	250.000M4
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	500.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	500.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-20.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 3:01 pm
Operator : Pest12:kb
Sample : il61248,42e,,8745
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 09:53:10 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 09:50:26 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	3.350	3.933	581.6E6	1113.2E6	10007.777	11132.898M4
36) l7	1248-2	3.606	4.225	787.0E6	1186.9E6	10105.981	10345.421M4
37) l7	1248-3	3.788	4.453	1208.3E6	1437.5E6	10338.101	10538.460M4

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-20.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 3:01 pm
Operator : Pest12:kb
Sample : il61248,42e,,8745
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 09:53:10 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 09:50:26 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
38) l7	1248-4	4.127	4.751	1071.8E6	1638.5E6	10595.607	10398.676M4
39) l7	1248-5	4.150	4.790	916.0E6	1799.4E6	10639.350	10429.504M4
Sum	1248-1			4564.7E6	7175.6E6	NoCal	NoCal D
Average	1248-1					10337.363	10568.992
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

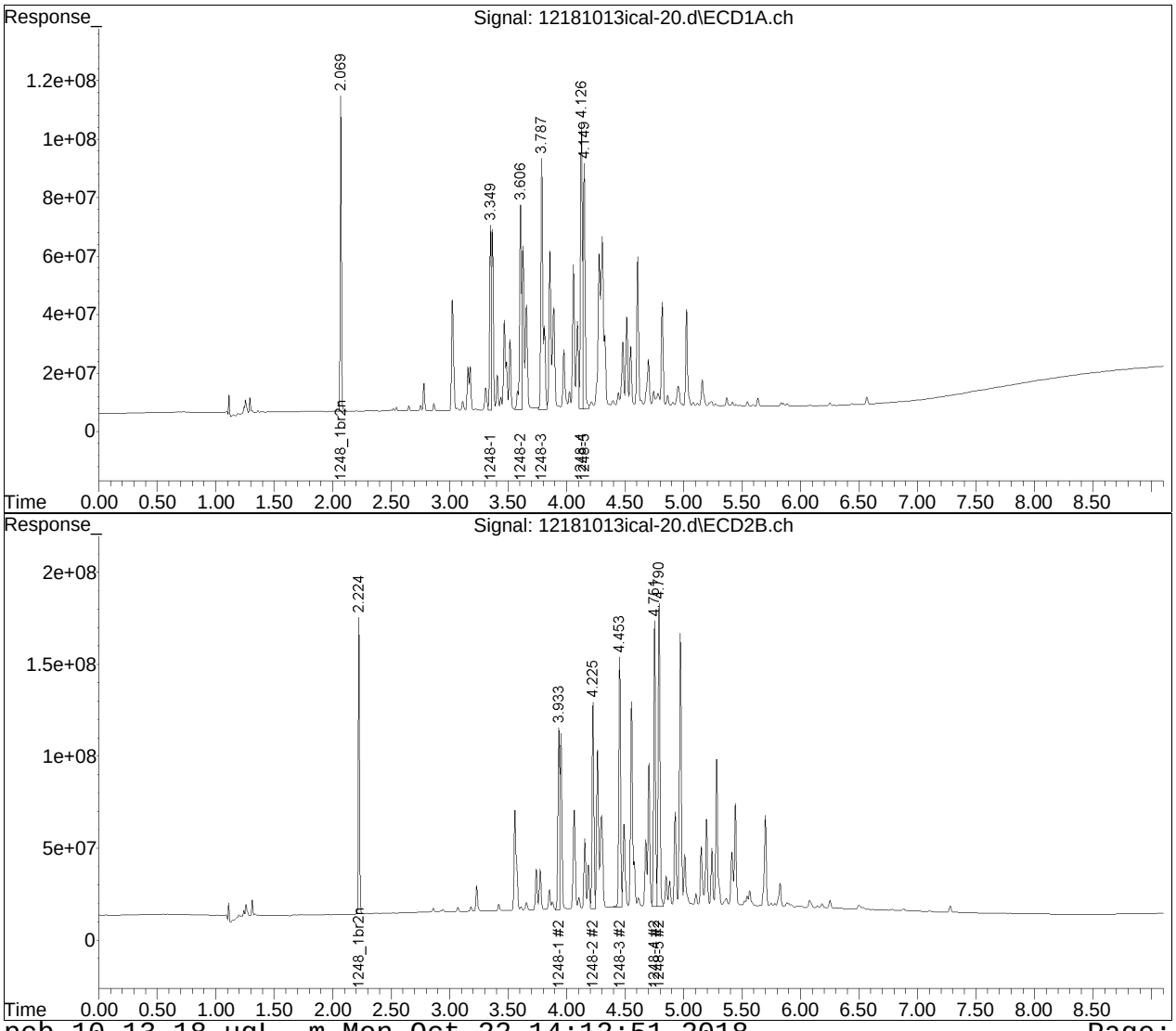
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-20.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 3:01 pm
Operator : Pest12:kb
Sample : il61248,42e,,8745
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 09:53:10 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 09:50:26 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

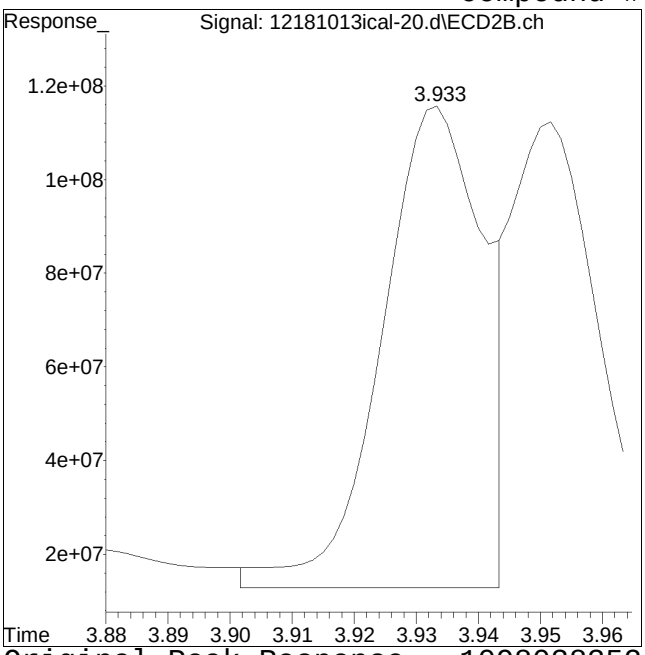


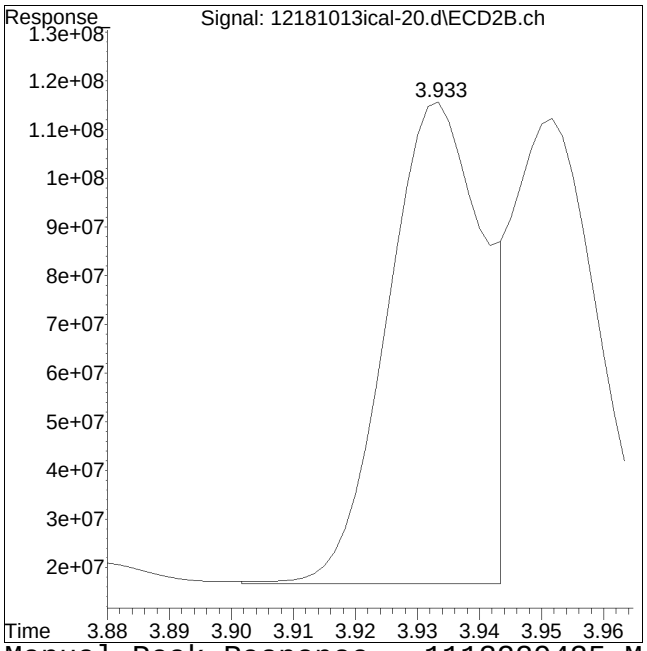
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-20.d
Date Inj'd : 10/13/2018 3:01 pm
Sample : il61248,42e,,8745

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:50 am

Compound #86: 1248-1 #2





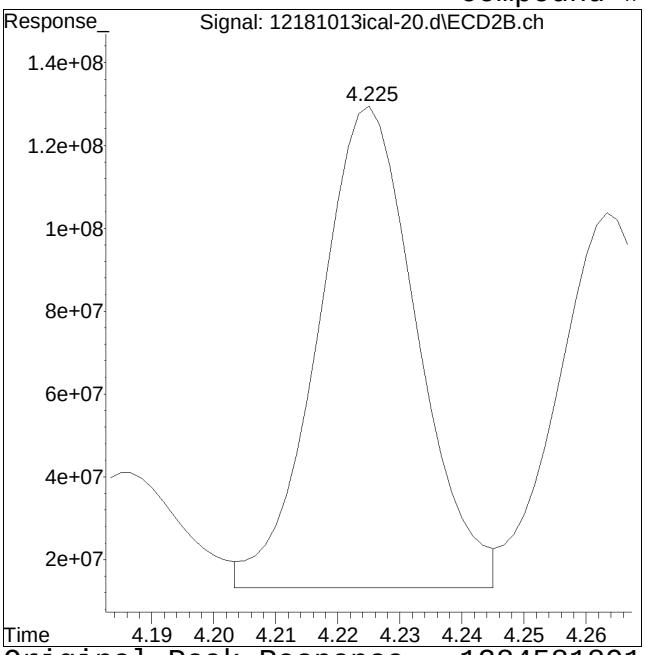
Original Peak Response = 1098038352 Manual Peak Response = 1113229435 M4
M4 = Poor automated baseline construction.

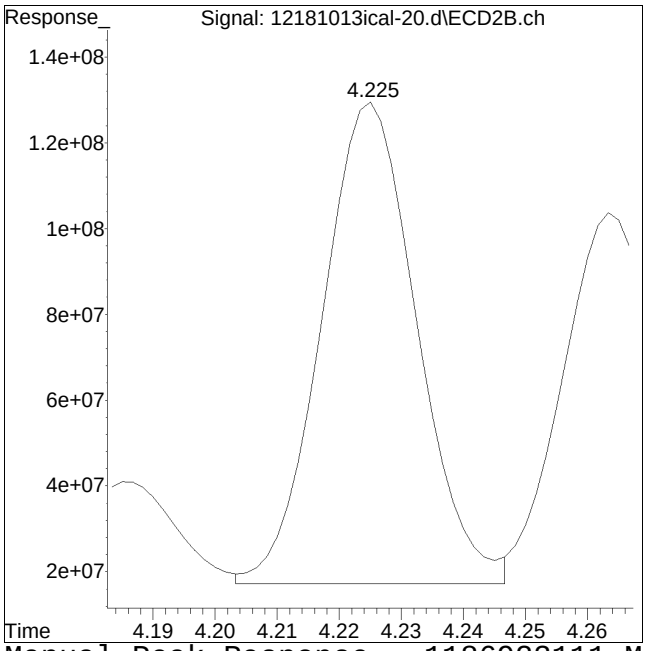
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-20.d
Date Inj'd : 10/13/2018 3:01 pm
Sample : il61248,42e,,8745

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:50 am

Compound #87: 1248-2 #2





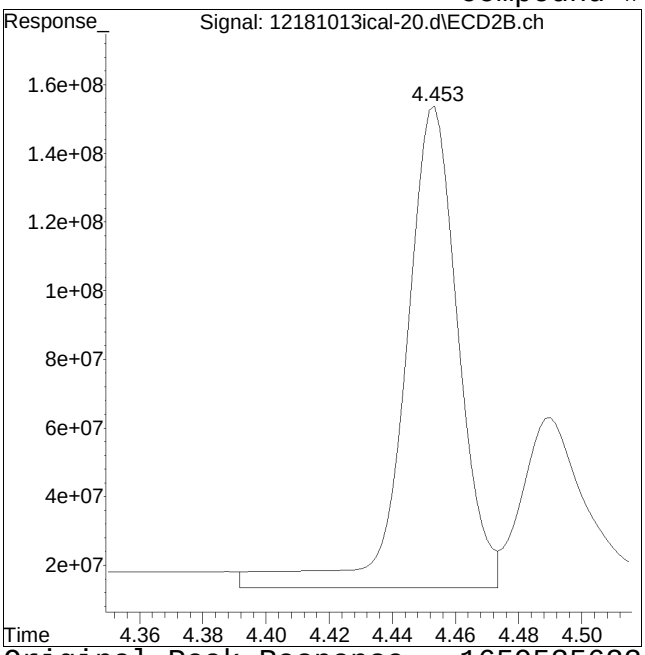
Original Peak Response = 1284581891 Manual Peak Response = 1186923111 M4
M4 = Poor automated baseline construction.

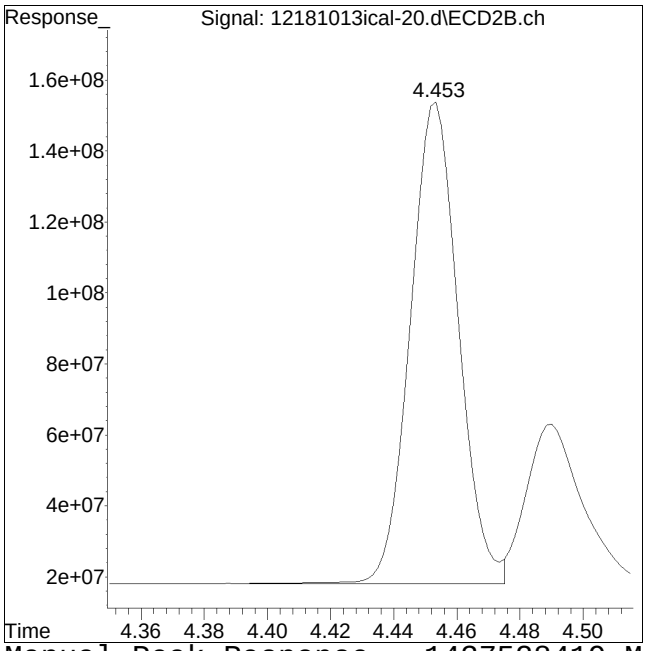
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-20.d
Date Inj'd : 10/13/2018 3:01 pm
Sample : il61248,42e,,8745

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:50 am

Compound #88: 1248-3 #2





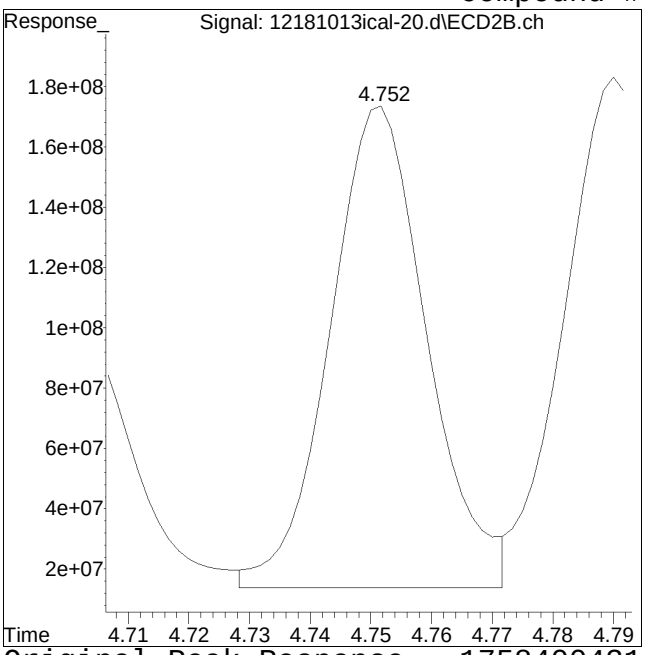
Original Peak Response = 1659535623 Manual Peak Response = 1437528419 M4
M4 = Poor automated baseline construction.

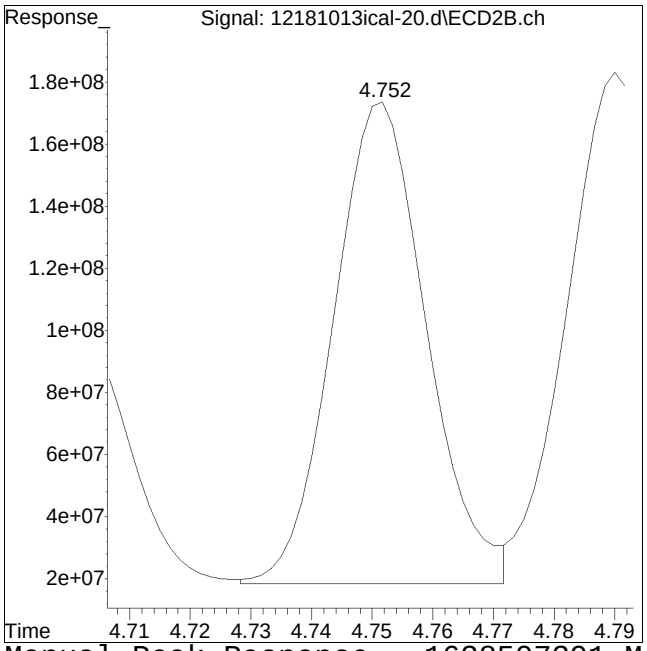
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-20.d
Date Inj'd : 10/13/2018 3:01 pm
Sample : il61248,42e,,8745

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:50 am

Compound #89: 1248-4 #2





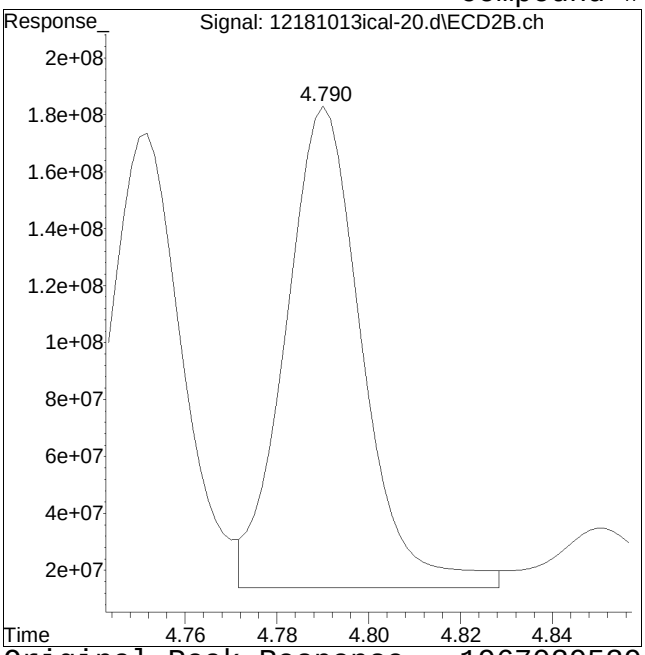
Original Peak Response = 1758400431 Manual Peak Response = 1638507391 M4
M4 = Poor automated baseline construction.

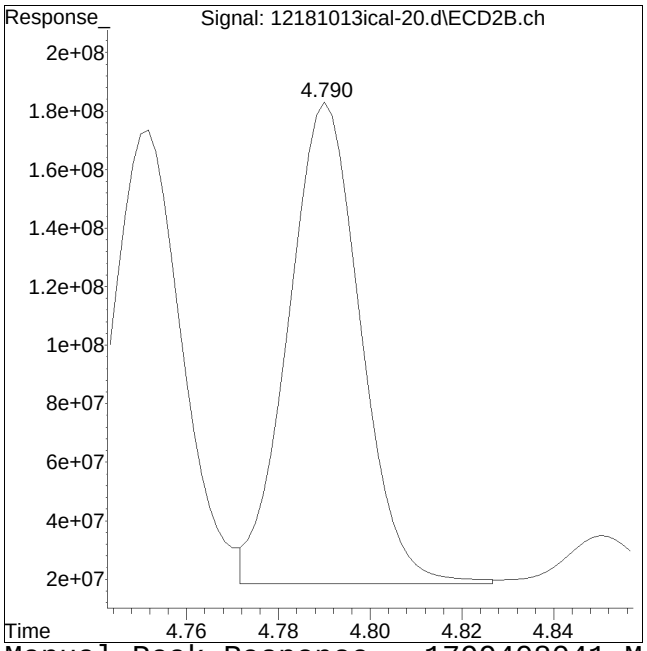
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-20.d
Date Inj'd : 10/13/2018 3:01 pm
Sample : il61248,42e,,8745

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:50 am

Compound #90: 1248-5 #2





Original Peak Response = 1967029539 Manual Peak Response = 1799408041 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-21.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 3:14 pm
Operator : Pest12:kb
Sample : il12154,42e,,8675
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 11:56:31 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 11:56:15 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
13) i	2154_1br2nb	2.069	2.224	895.9E6	1365.2E6	250.000M4	250.000M4
22) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
39) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
Spiked Amount	500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
Spiked Amount	500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016-1			0	0	N.D.	N.D.
Average	1016-1					0.000	0.000
9) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260-2			0	0	N.D.	N.D.
Average	1260-2					0.000	0.000
14) l3	1221-1	2.651	3.070	4030830	8602317	102.178M4	123.658M4
15) l3	1221-2	2.751	3.181	2378349	4127245	100.107M4	101.266M4

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-21.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 3:14 pm
Operator : Pest12:kb
Sample : il12154,42e,,8675
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 11:56:31 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 11:56:15 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
16) l3	1221-3	2.779	3.231	9610725	16561511	106.884M4	108.995M4
Sum	1221-1			16019903	29291074	309.169	333.919
Average	1221-1					103.056	111.306
17) l4	1254-1	4.092	4.787	14076018	22849929	110.317M4	104.197M4
18) l4	1254-2	4.296	4.927	26154948	27892133	115.866M4	109.603M4
19) l4	1254-3	4.607	5.281	23449412	39669332	108.357M4	105.850M4
20) l4	1254-4	4.818	5.441	17494628	25073578	103.812M4	101.848M4
21) l4	1254-5	5.160	5.824	23698509	34676758	105.578M4	108.101M4
Sum	1254-1			104.9E6	150.2E6	N.D.	N.D. D
Average	1254-1					108.786	105.920
23) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
24) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
28) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
29) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-21.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 3:14 pm
Operator : Pest12:kb
Sample : il12154,42e,,8675
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 11:56:31 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 11:56:15 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1268-1					0.000	0.000
34) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
40) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
41) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
45) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
46) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-21.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 3:14 pm
Operator : Pest12:kb
Sample : il12154,42e,,8675
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 11:56:31 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 11:56:15 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

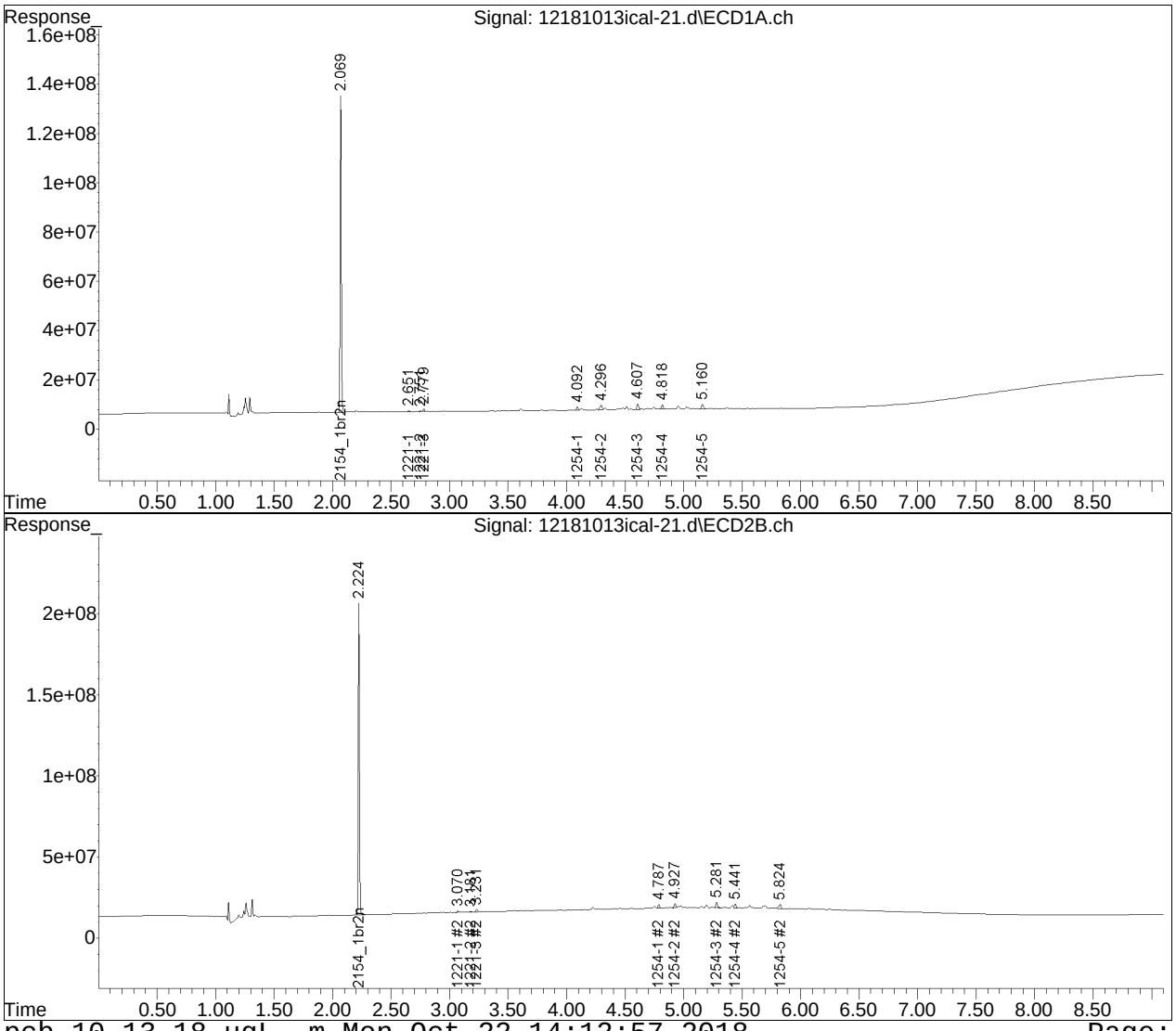
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-21.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 3:14 pm
Operator : Pest12:kb
Sample : il12154,42e,,8675
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 11:56:31 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 11:56:15 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

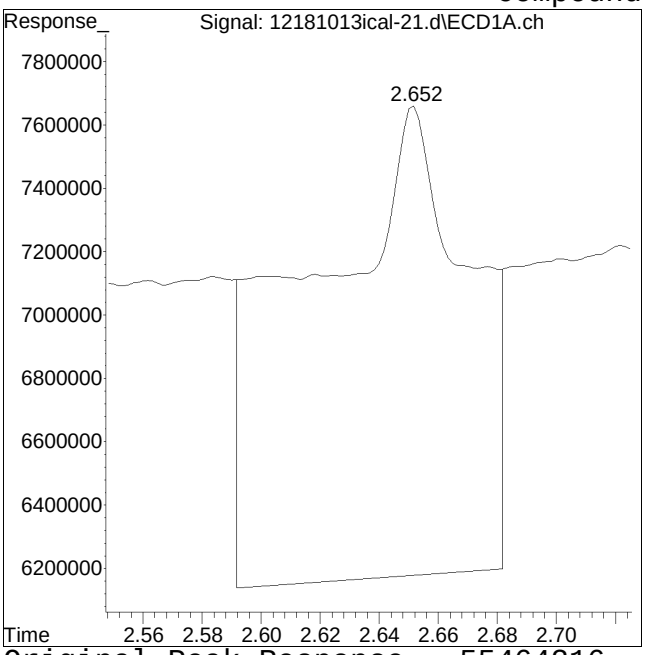


Manual Integration Report

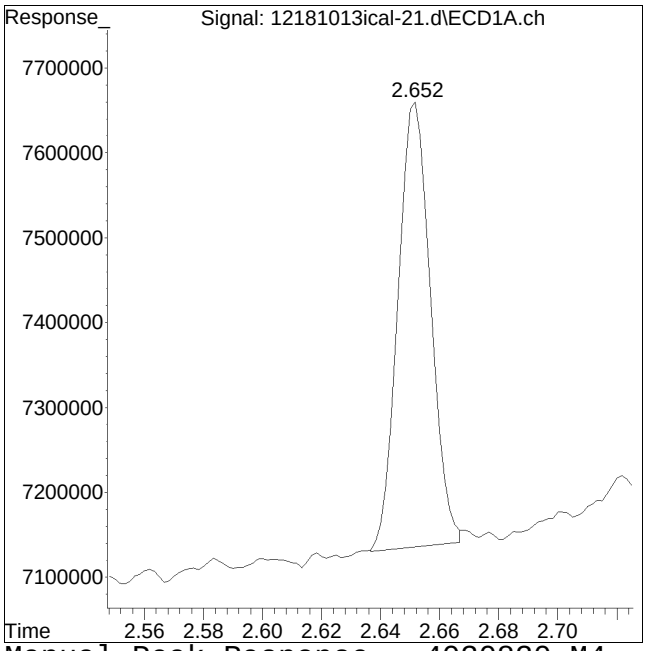
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-21.d
Date Inj'd : 10/13/2018 3:14 pm
Sample : il12154,42e,,8675

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:56 am

Compound #14: 1221-1



Original Peak Response = 55464216



Manual Peak Response = 4030830 M4

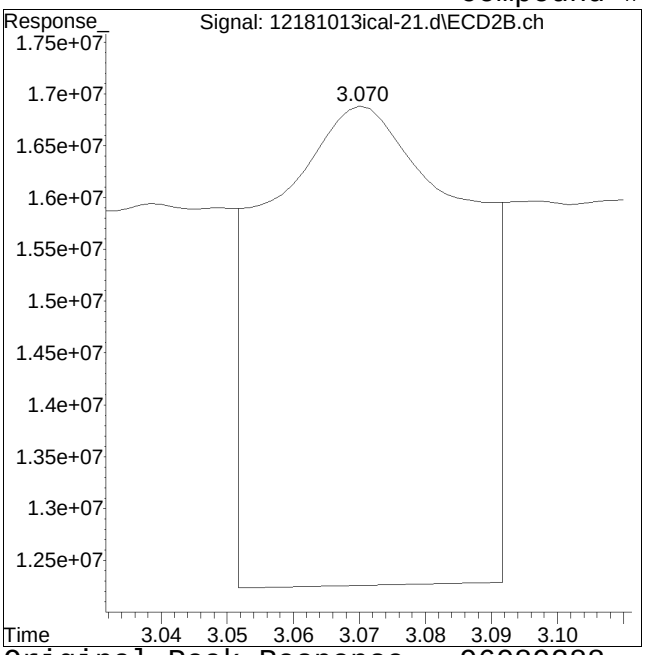
M4 = Poor automated baseline construction.

Manual Integration Report

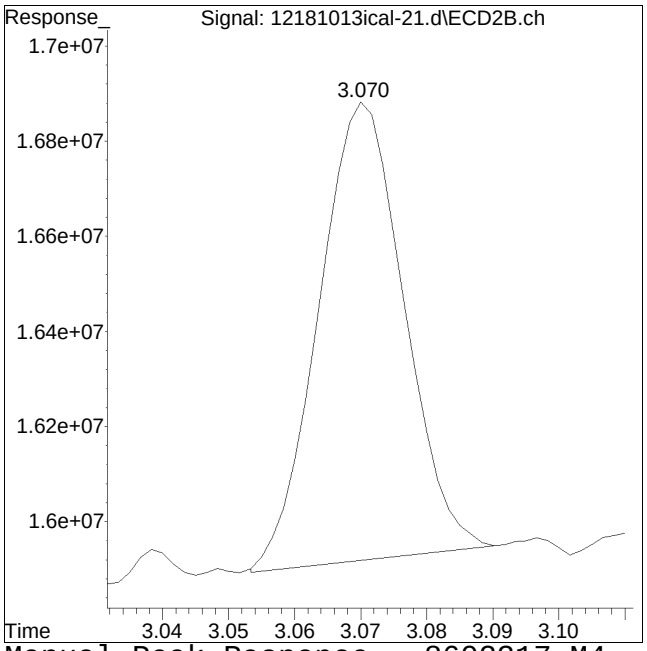
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-21.d
Date Inj'd : 10/13/2018 3:14 pm
Sample : il12154,42e,,8675

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:56 am

Compound #64: 1221-1 #2



Original Peak Response = 96089288



Manual Peak Response = 8602317 M4

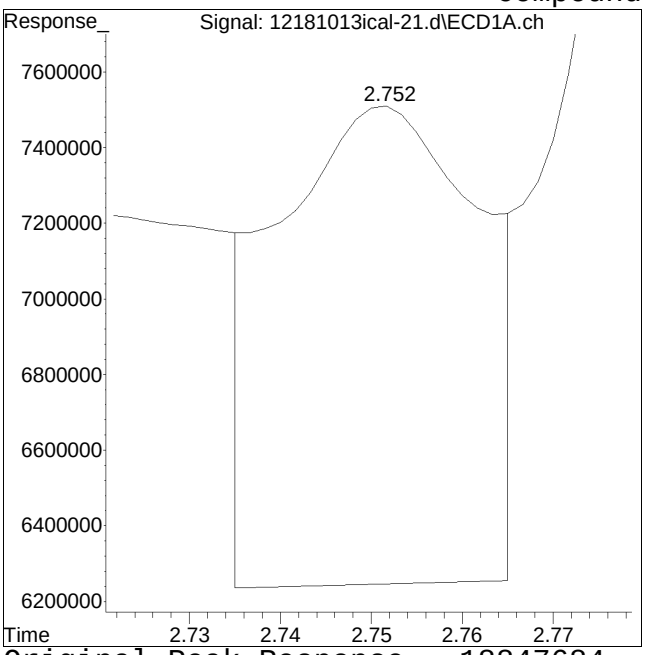
M4 = Poor automated baseline construction.

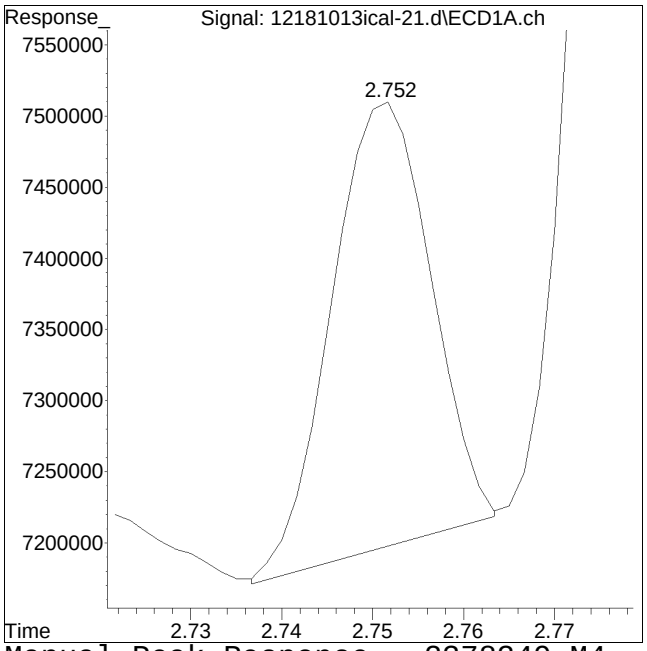
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-21.d
Date Inj'd : 10/13/2018 3:14 pm
Sample : il12154,42e,,8675

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:56 am

Compound #15: 1221-2





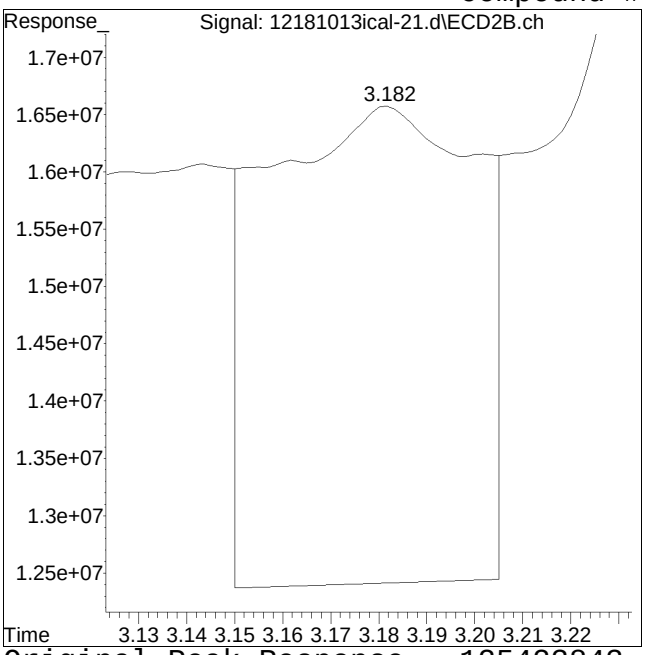
Original Peak Response = 18847684 Manual Peak Response = 2378349 M4
M4 = Poor automated baseline construction.

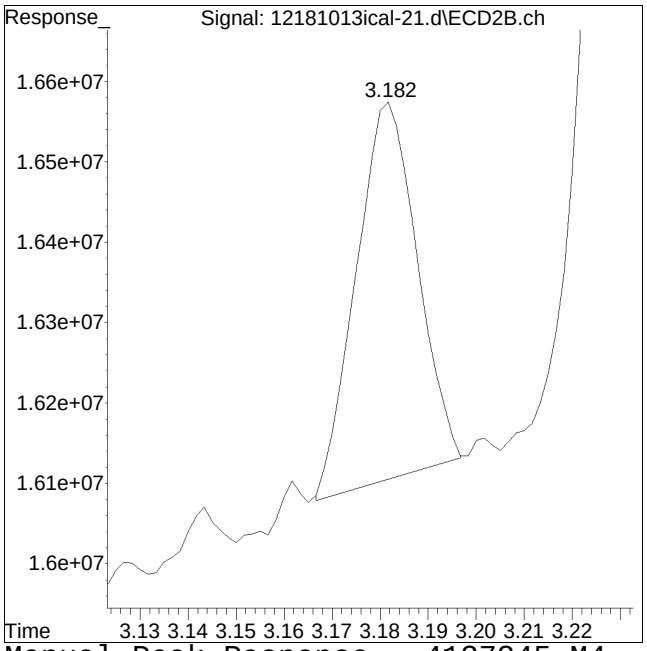
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-21.d
Date Inj'd : 10/13/2018 3:14 pm
Sample : il12154,42e,,8675

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:56 am

Compound #65: 1221-2 #2





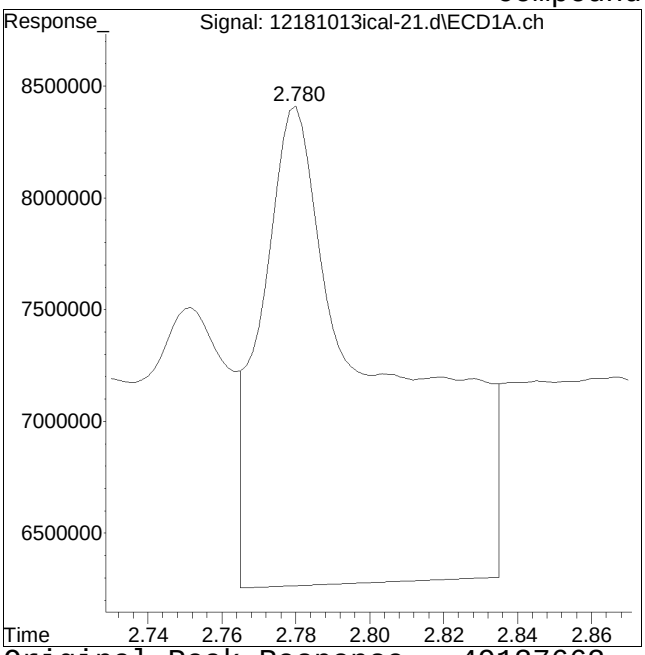
Original Peak Response = 125423843 Manual Peak Response = 4127245 M4
M4 = Poor automated baseline construction.

Manual Integration Report

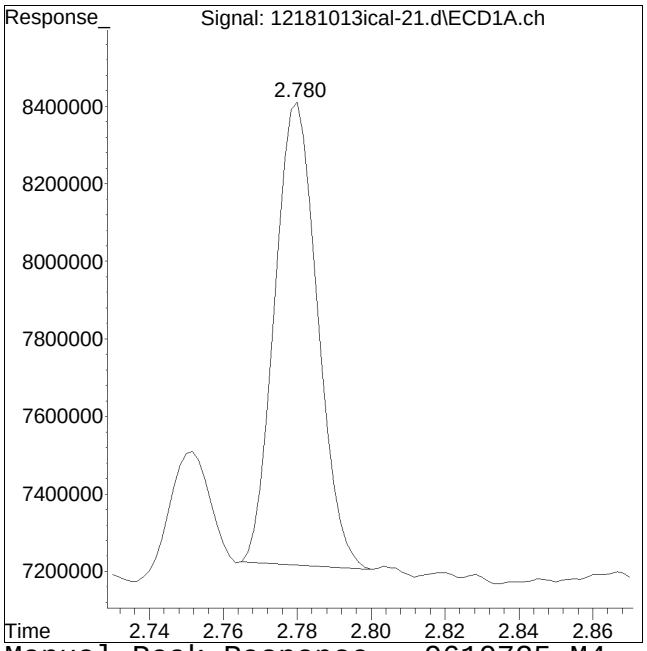
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-21.d
Date Inj'd : 10/13/2018 3:14 pm
Sample : il12154,42e,,8675

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:56 am

Compound #16: 1221-3



Original Peak Response = 49137662



Manual Peak Response = 9610725 M4

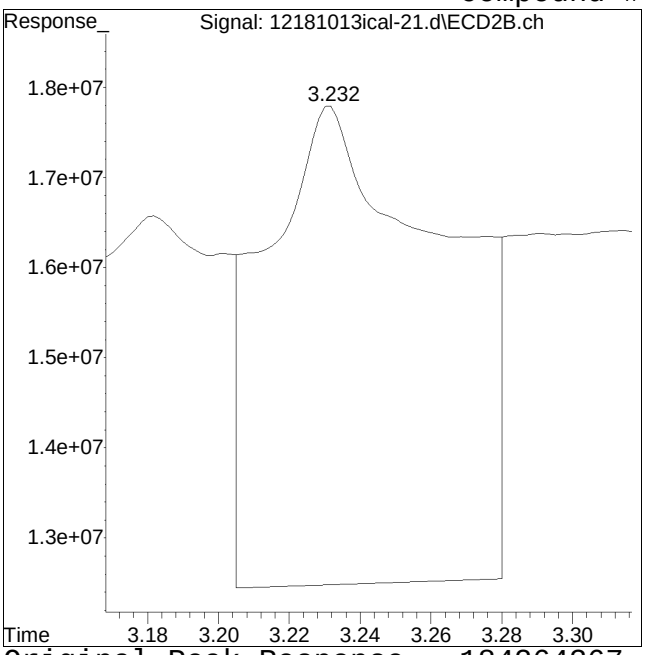
M4 = Poor automated baseline construction.

Manual Integration Report

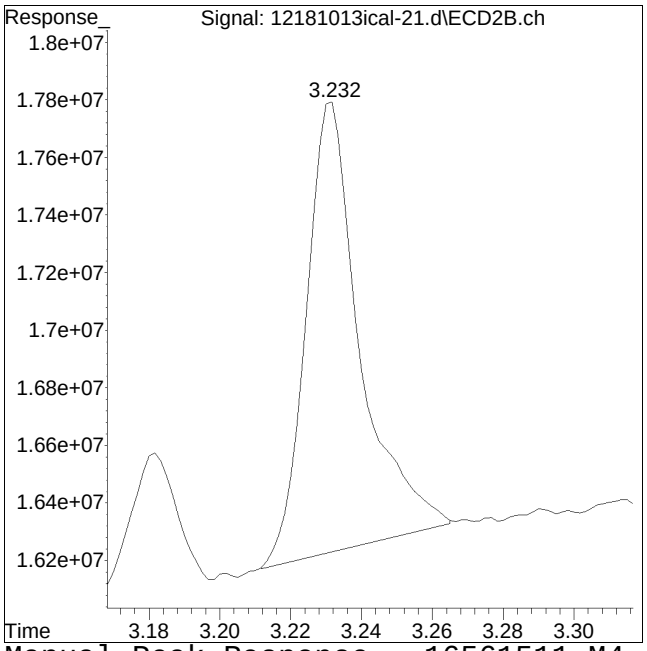
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-21.d
Date Inj'd : 10/13/2018 3:14 pm
Sample : il12154,42e,,8675

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:56 am

Compound #66: 1221-3 #2



Original Peak Response = 184264367



Manual Peak Response = 16561511 M4

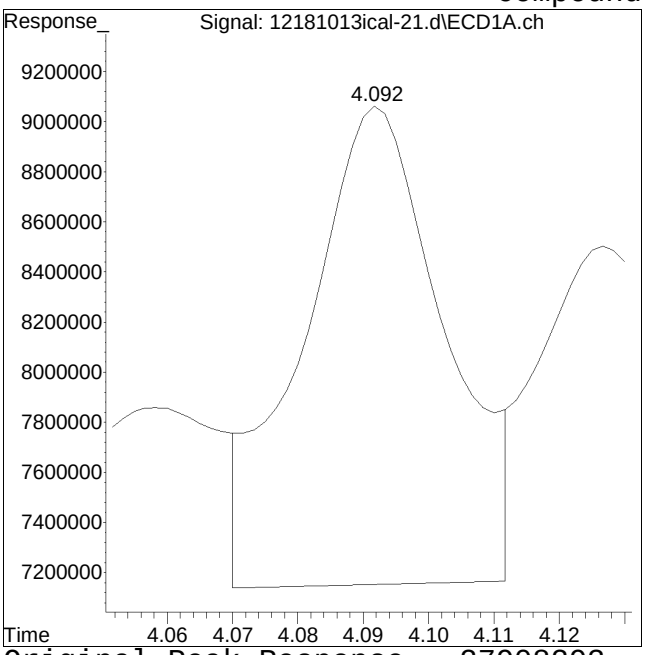
M4 = Poor automated baseline construction.

Manual Integration Report

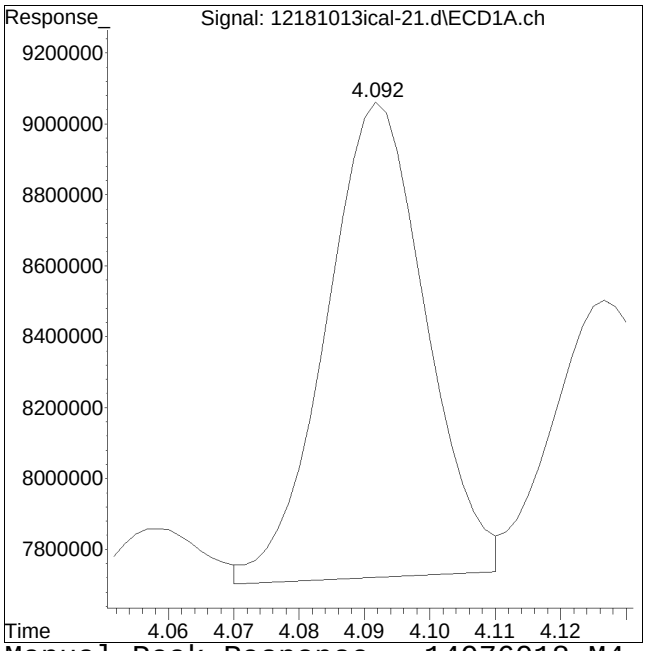
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-21.d
Date Inj'd : 10/13/2018 3:14 pm
Sample : il12154,42e,,8675

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:56 am

Compound #17: 1254-1



Original Peak Response = 27908293



Manual Peak Response = 14076018 M4

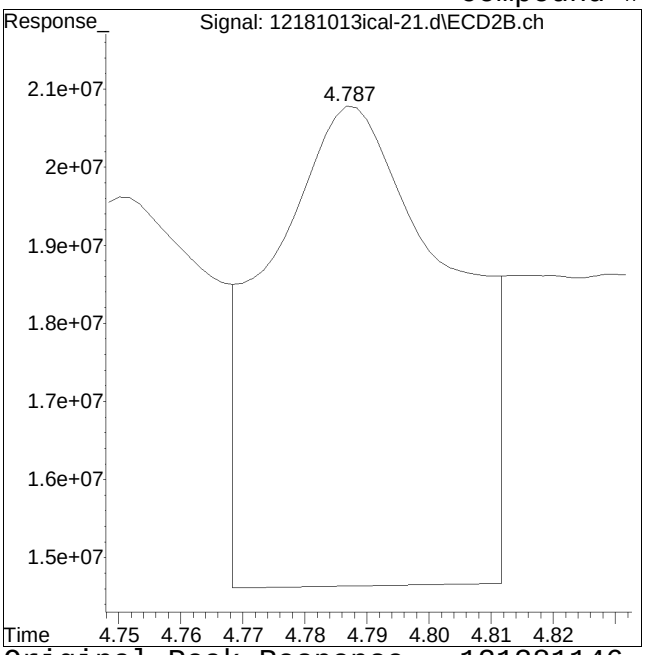
M4 = Poor automated baseline construction.

Manual Integration Report

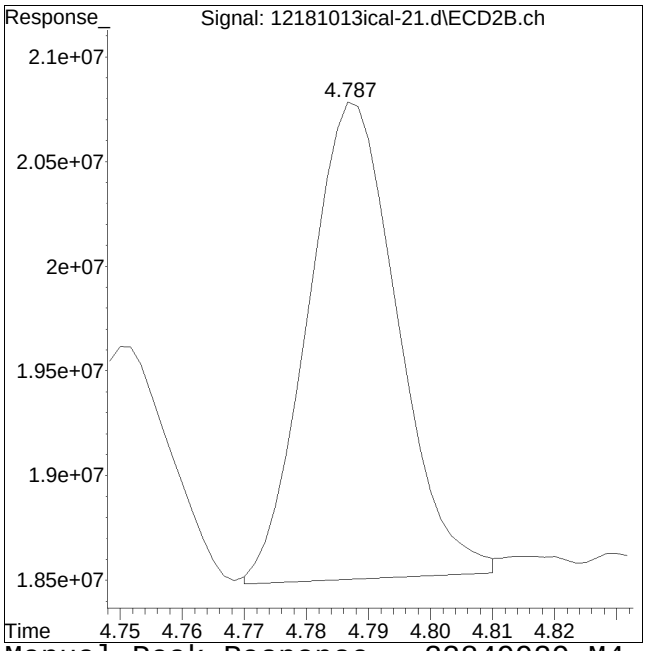
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-21.d
Date Inj'd : 10/13/2018 3:14 pm
Sample : il12154,42e,,8675

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:56 am

Compound #67: 1254-1 #2



Original Peak Response = 121381146



Manual Peak Response = 22849929 M4

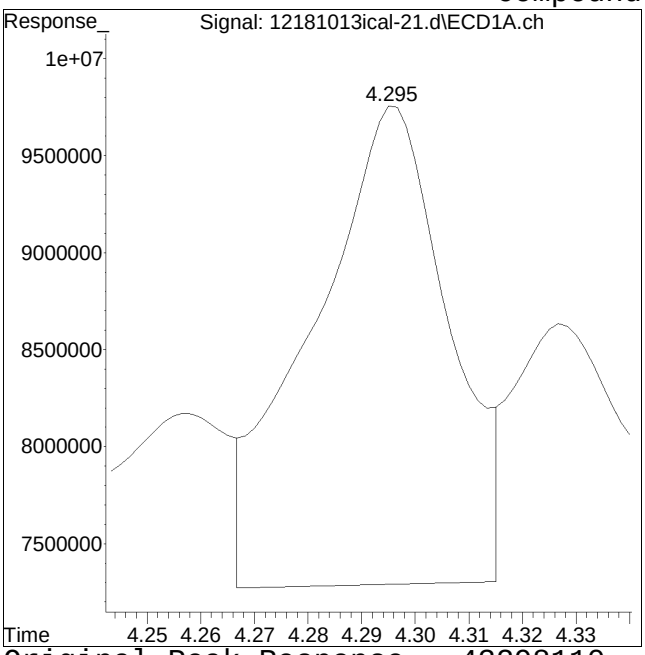
M4 = Poor automated baseline construction.

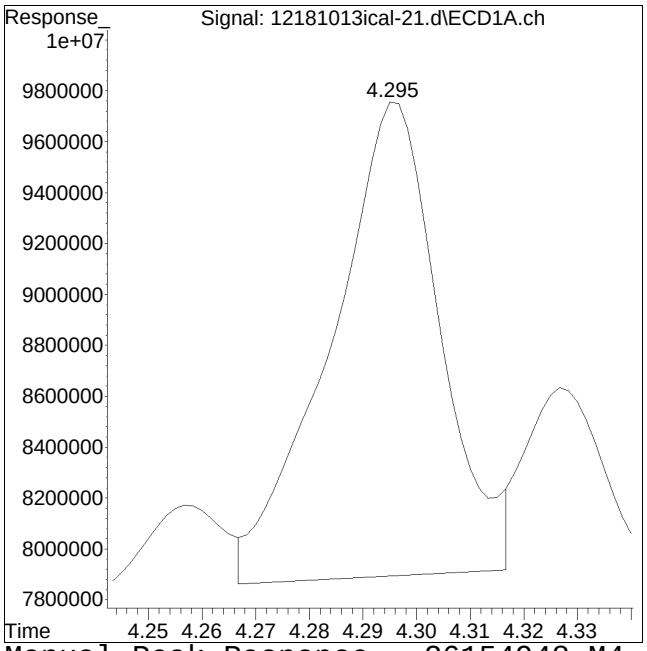
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-21.d
Date Inj'd : 10/13/2018 3:14 pm
Sample : il12154,42e,,8675

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:56 am

Compound #18: 1254-2





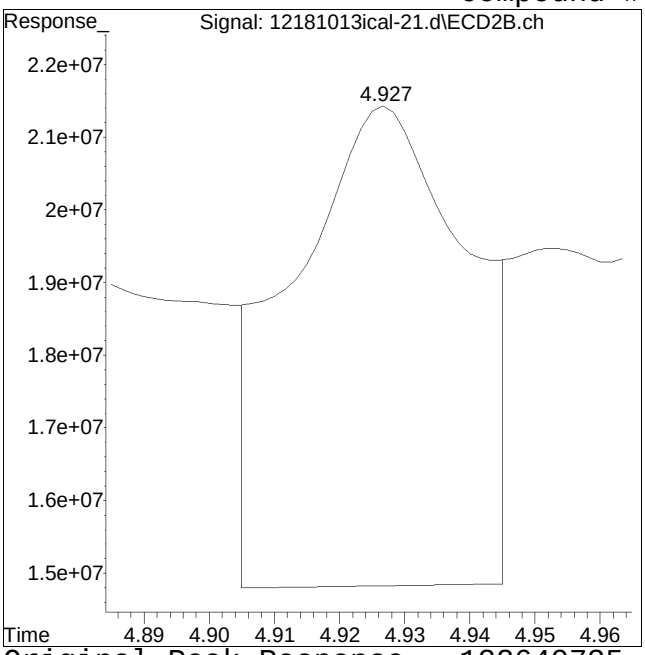
Original Peak Response = 43298110 Manual Peak Response = 26154948 M4
M4 = Poor automated baseline construction.

Manual Integration Report

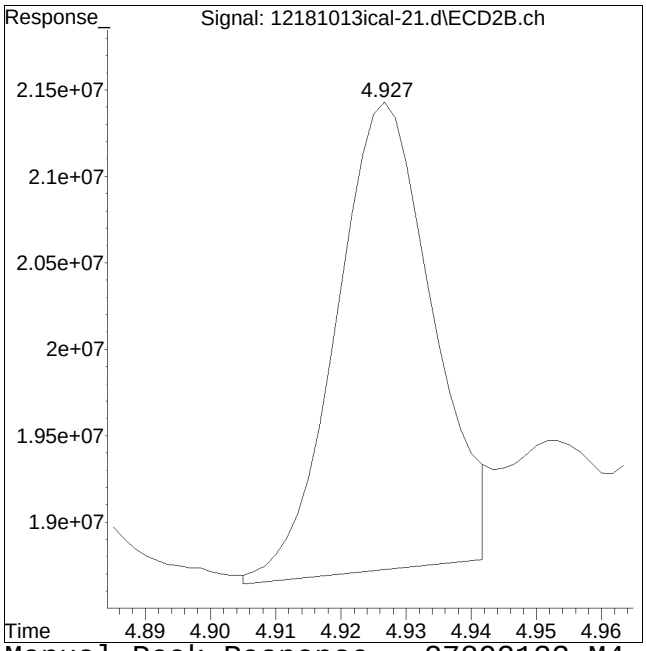
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-21.d
Date Inj'd : 10/13/2018 3:14 pm
Sample : il12154,42e,,8675

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:56 am

Compound #68: 1254-2 #2



Original Peak Response = 122640735



Manual Peak Response = 27892133 M4

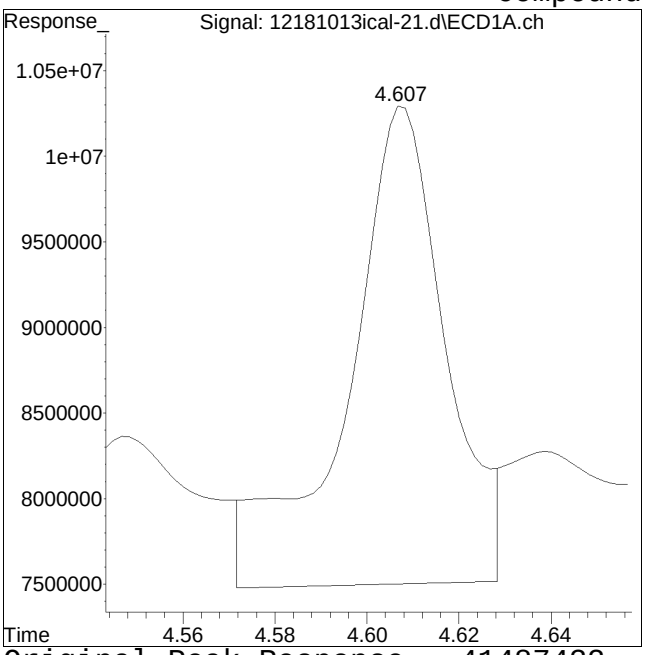
M4 = Poor automated baseline construction.

Manual Integration Report

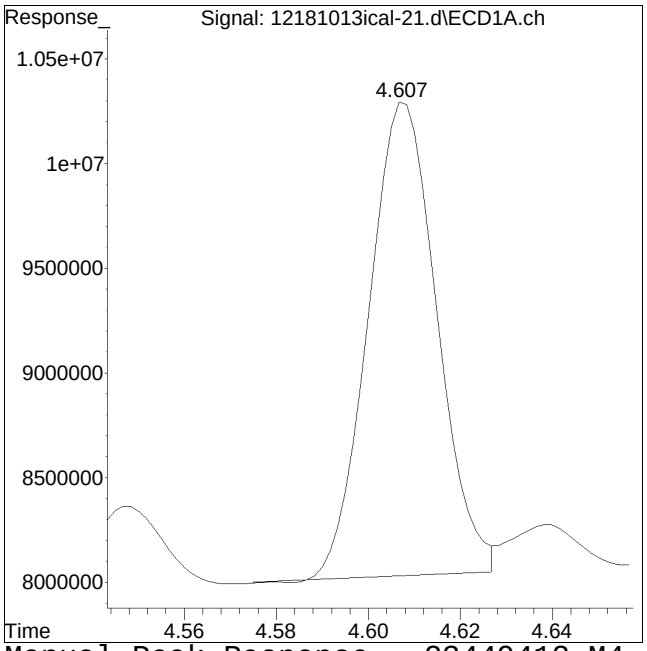
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-21.d
Date Inj'd : 10/13/2018 3:14 pm
Sample : il12154,42e,,8675

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:56 am

Compound #19: 1254-3



Original Peak Response = 41487432



Manual Peak Response = 23449412 M4

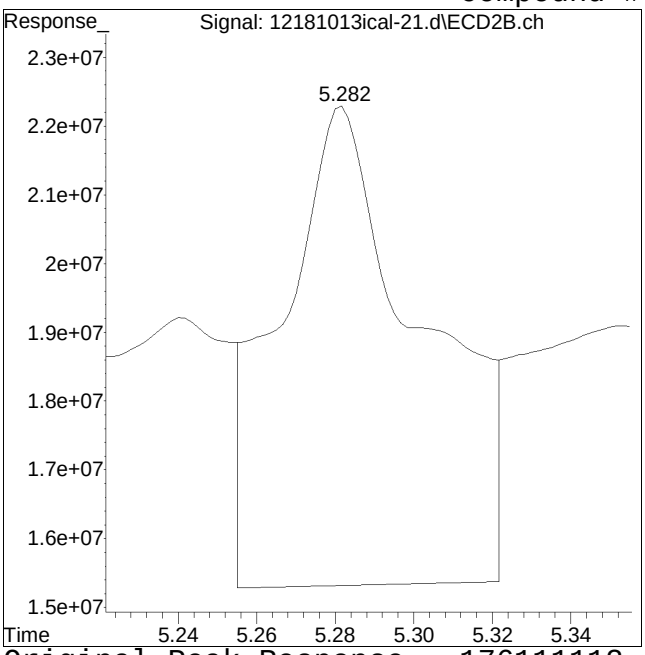
M4 = Poor automated baseline construction.

Manual Integration Report

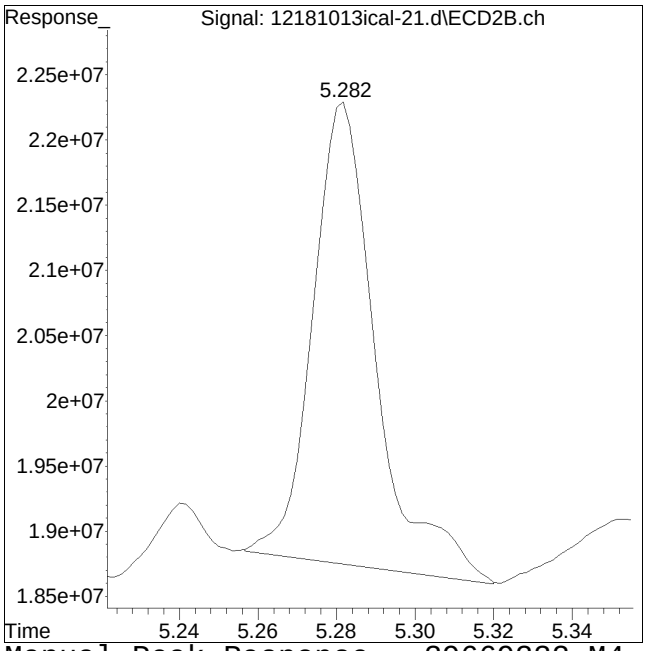
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-21.d
Date Inj'd : 10/13/2018 3:14 pm
Sample : il12154,42e,,8675

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:56 am

Compound #69: 1254-3 #2



Original Peak Response = 176111112



Manual Peak Response = 39669332 M4

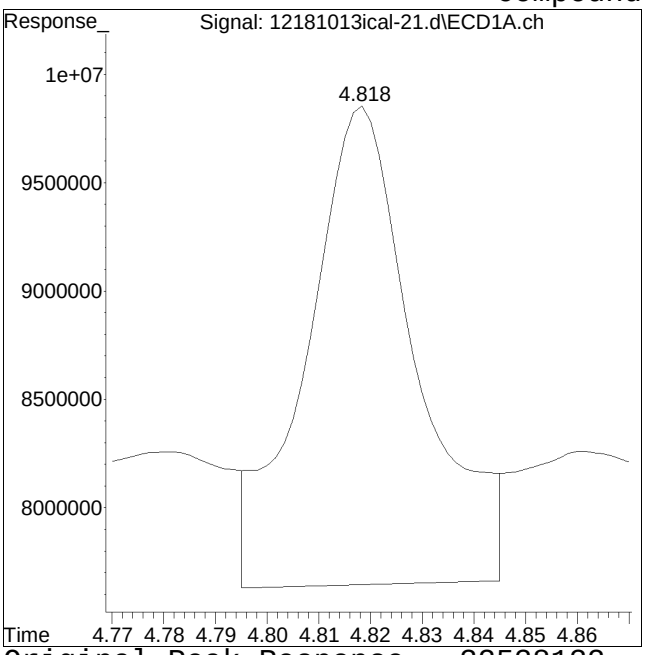
M4 = Poor automated baseline construction.

Manual Integration Report

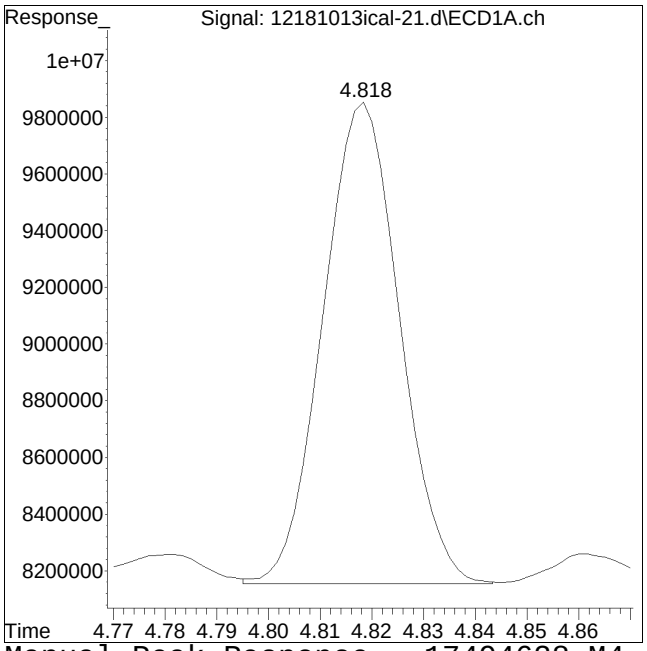
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-21.d
Date Inj'd : 10/13/2018 3:14 pm
Sample : il12154,42e,,8675

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:56 am

Compound #20: 1254-4



Original Peak Response = 32538132



Manual Peak Response = 17494628 M4

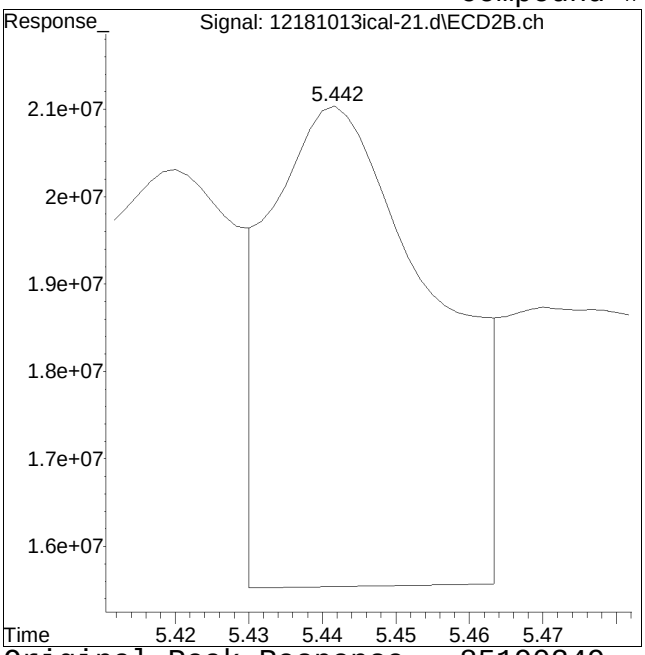
M4 = Poor automated baseline construction.

Manual Integration Report

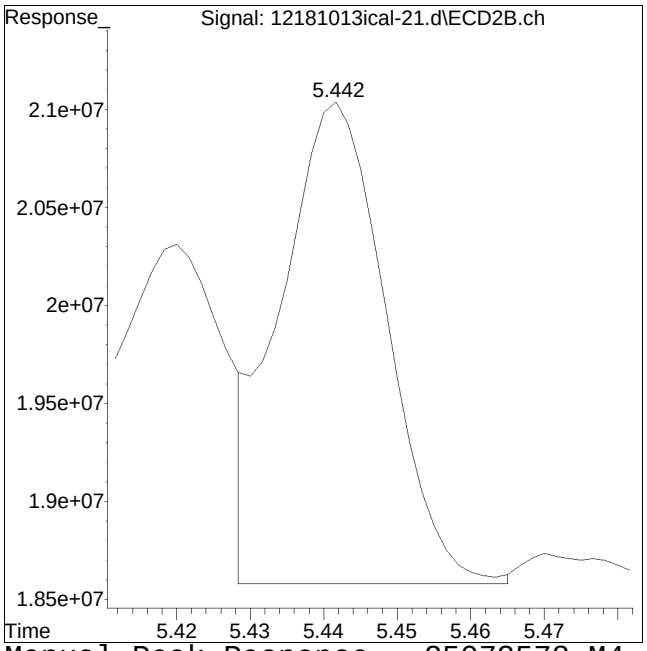
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-21.d
Date Inj'd : 10/13/2018 3:14 pm
Sample : il12154,42e,,8675

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:56 am

Compound #70: 1254-4 #2



Original Peak Response = 85190249



Manual Peak Response = 25073578 M4

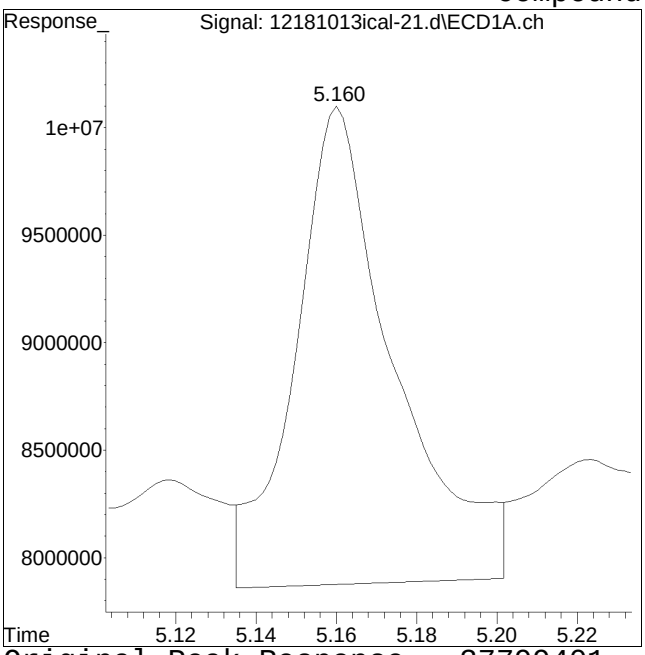
M4 = Poor automated baseline construction.

Manual Integration Report

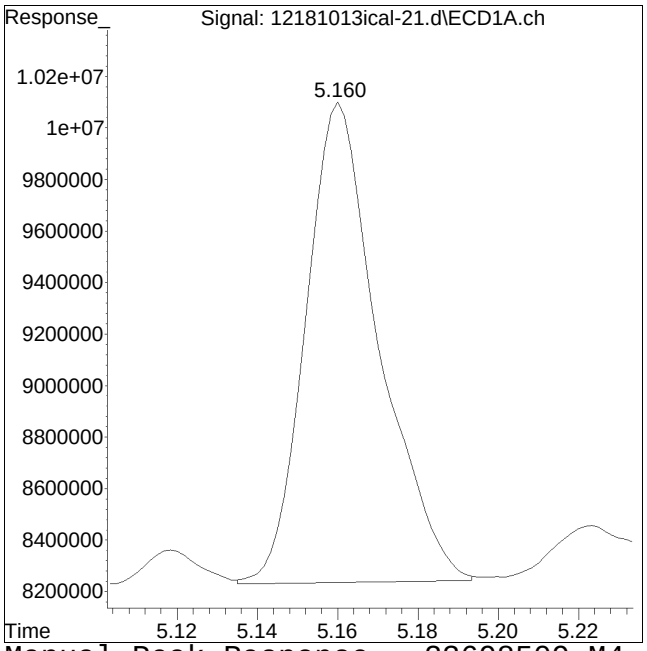
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-21.d
Date Inj'd : 10/13/2018 3:14 pm
Sample : il12154,42e,,8675

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:56 am

Compound #21: 1254-5



Original Peak Response = 37799401



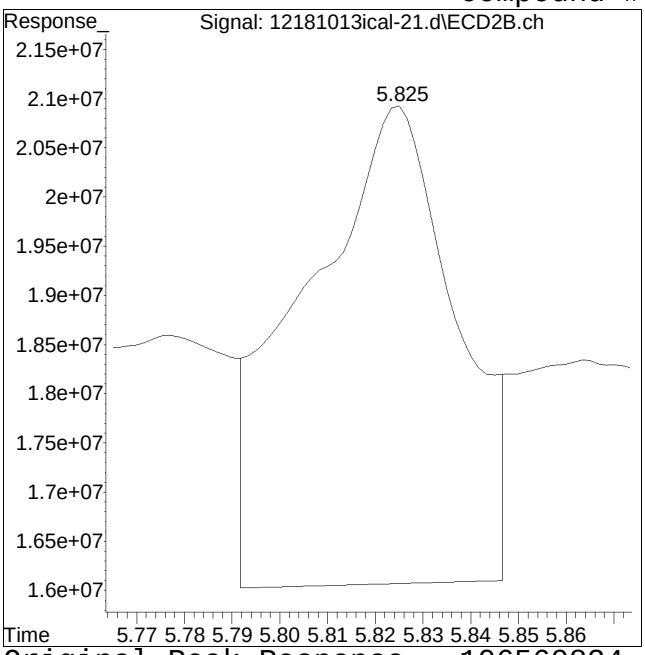
Manual Peak Response = 23698509 M4

M4 = Poor automated baseline construction.

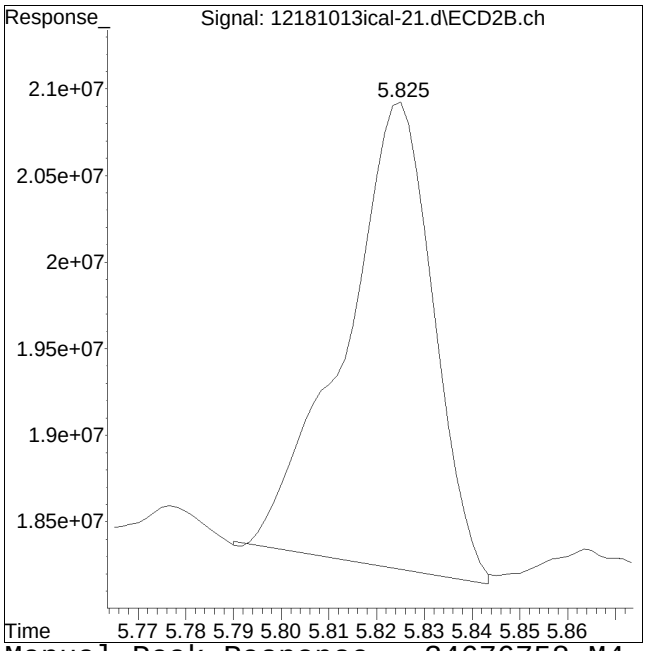
Manual Integration Report

Data Path	: I:\Pest12\181013ical\	QMethod	: P12_pcb_10-13-18_ugL_.m
Data File	: 12181013ical-21.d	Operator	: Pest12:kb
Date Inj'd	: 10/13/2018 3:14 pm	Instrument	: Pest 12
Sample	: il12154,42e,,8675	Quant Date	: 10/16/2018 11:56 am

Compound #71: 1254-5 #2



Original Peak Response = 106560824



Manual Peak Response = 34676758 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-22.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 3:26 pm
Operator : Pest12:kb
Sample : il22154,42e,,8674
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 09:35:09 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 09:31:30 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	2.069	2.224	780.6E6	1209.7E6	250.000M4	250.000M4
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-1	2.651	3.070	18536411	30829218	578.160M4	562.737M4

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-22.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 3:26 pm
Operator : Pest12:kb
Sample : il22154,42e,,8674
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 09:35:09 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 09:31:30 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
16) l3	1221-2	2.751	3.181	10707367	18574662	544.061M4	542.207M4
17) l3	1221-3	2.779	3.231	41822288	69537985	585.436M4	562.012M4
Sum	1221-1			71066065	118.9E6	1707.657	1666.956
Average	1221-1					569.219	555.652
18) l4	1254-1	4.091	4.787	60100037	100.1E6	566.689M4	524.789M4
19) l4	1254-2	4.294	4.927	103.9E6	117.8E6	557.955M4	541.533M4
20) l4	1254-3	4.606	5.281	100.0E6	172.0E6	550.338M4	530.578M4
21) l4	1254-4	4.816	5.441	75014237	114.8E6	518.626M4	535.881M4
22) l4	1254-5	5.158	5.824	100.9E6	146.5E6	527.553M3	530.298M4
Sum	1254-1			439.9E6	651.3E6	NoCal	NoCal D
Average	1254-1					544.232	532.616
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-22.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 3:26 pm
Operator : Pest12:kb
Sample : il22154,42e,,8674
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 09:35:09 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 09:31:30 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-22.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 3:26 pm
Operator : Pest12:kb
Sample : il22154,42e,,8674
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 09:35:09 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 09:31:30 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

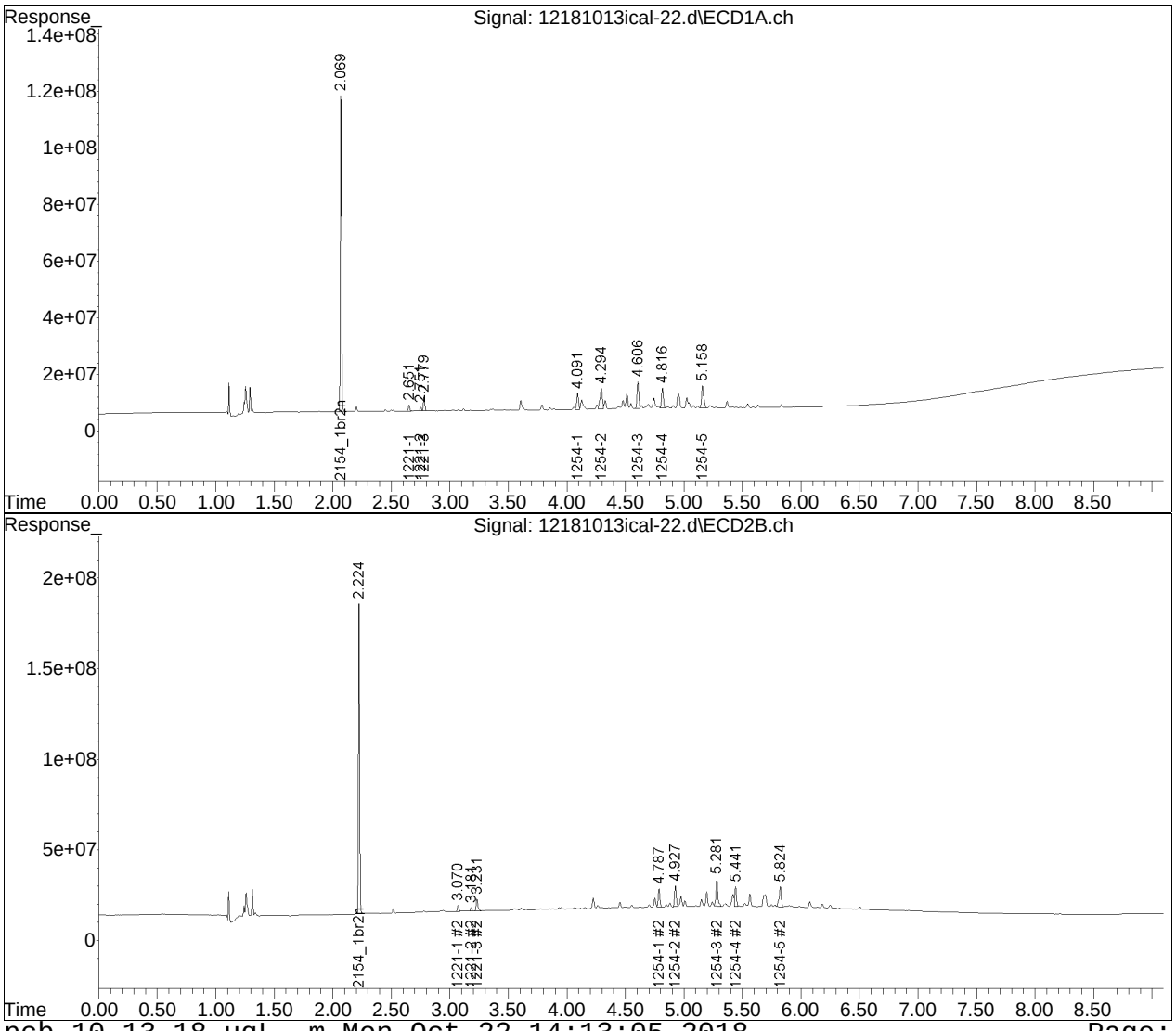
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-22.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 3:26 pm
Operator : Pest12:kb
Sample : il22154,42e,,8674
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 09:35:09 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 09:31:30 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

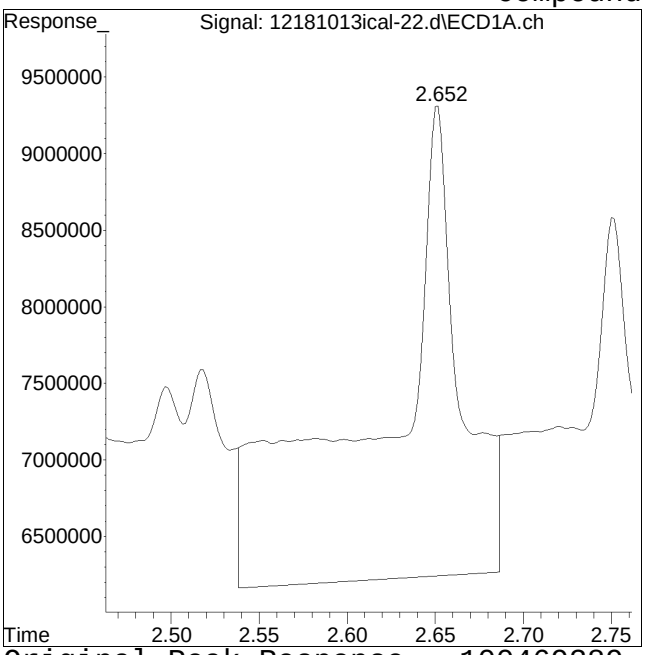


Manual Integration Report

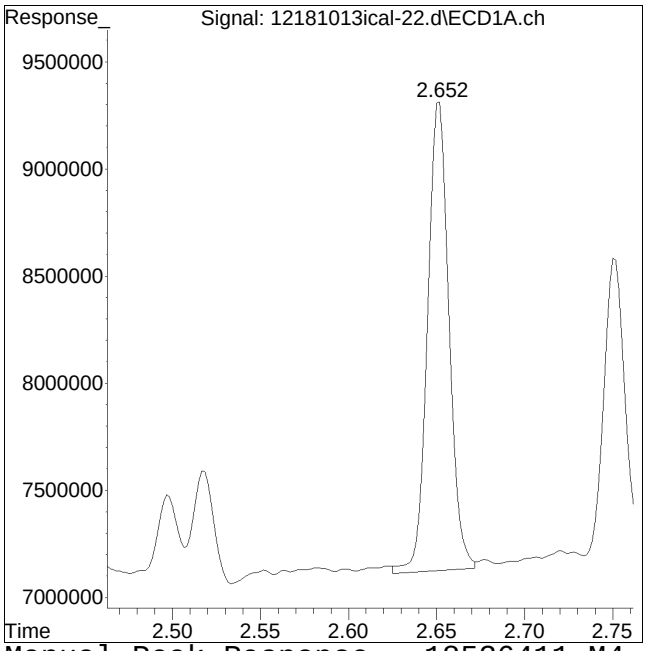
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-22.d
Date Inj'd : 10/13/2018 3:26 pm
Sample : il22154,42e,,8674

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:31 am

Compound #15: 1221-1



Original Peak Response = 100469389



Manual Peak Response = 18536411 M4

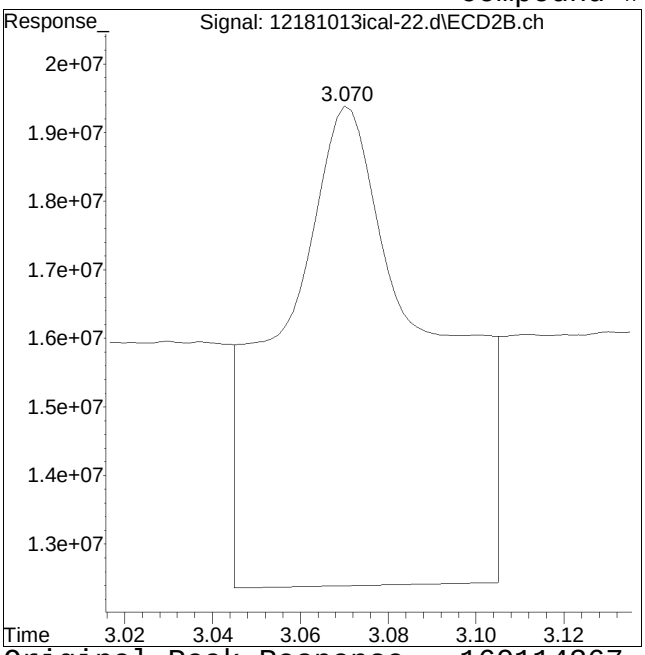
M4 = Poor automated baseline construction.

Manual Integration Report

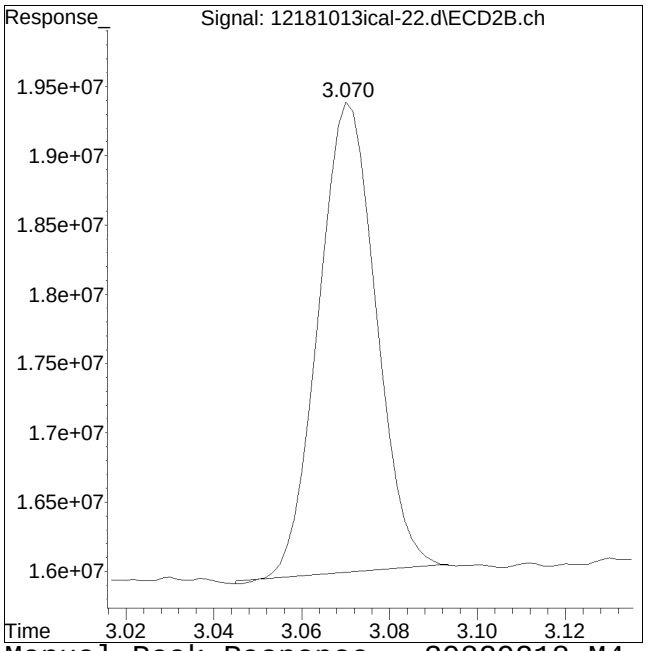
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-22.d
Date Inj'd : 10/13/2018 3:26 pm
Sample : il22154,42e,,8674

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:31 am

Compound #66: 1221-1 #2



Original Peak Response = 160114367



Manual Peak Response = 30829218 M4

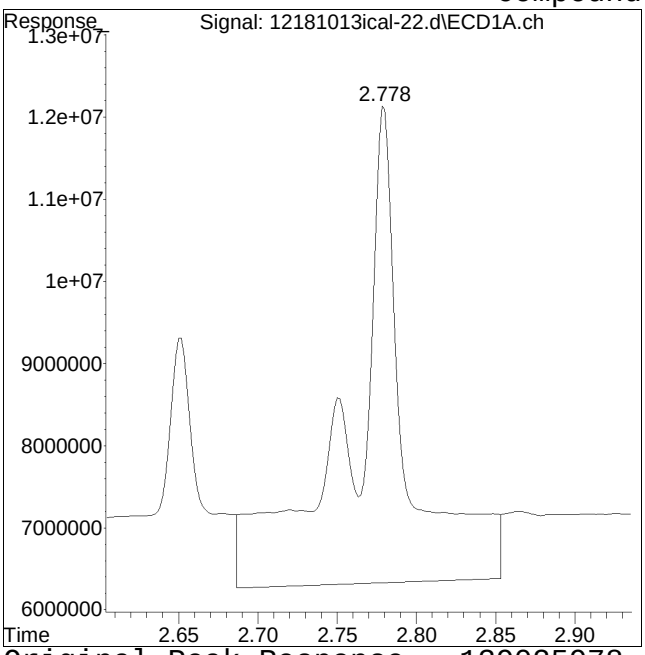
M4 = Poor automated baseline construction.

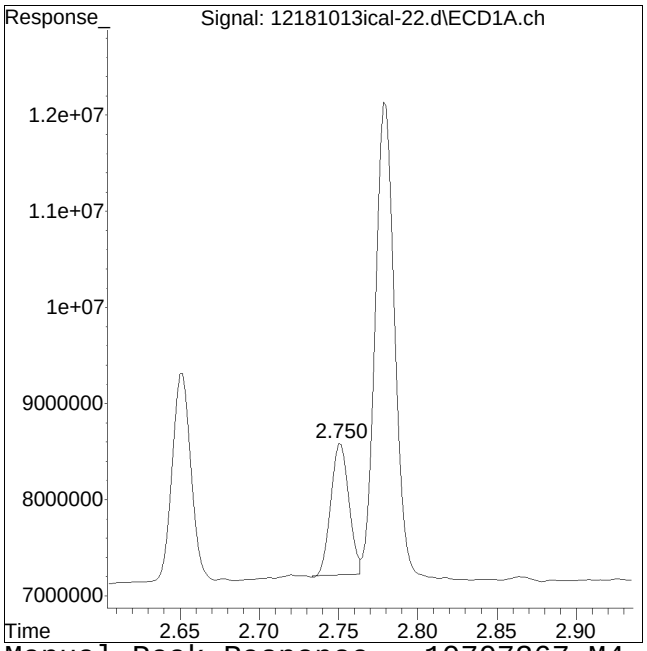
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-22.d
Date Inj'd : 10/13/2018 3:26 pm
Sample : il22154,42e,,8674

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:31 am

Compound #16: 1221-2





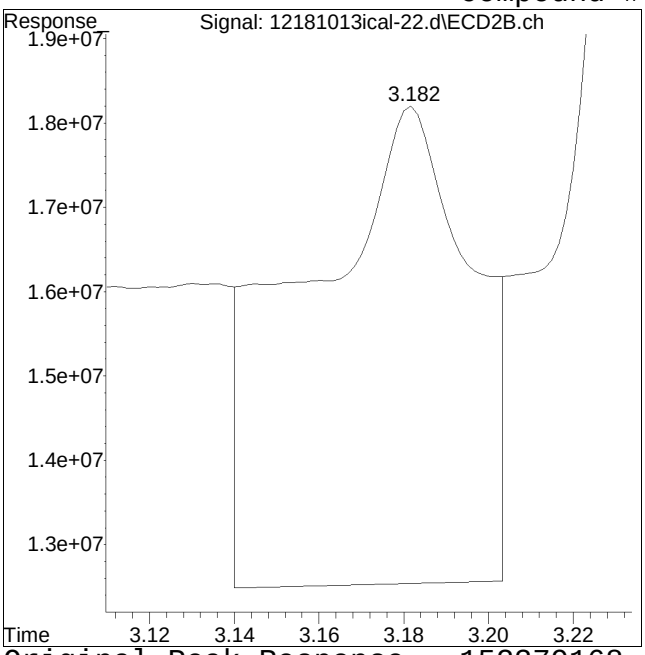
Original Peak Response = 139025978 Manual Peak Response = 10707367 M4
M4 = Poor automated baseline construction.

Manual Integration Report

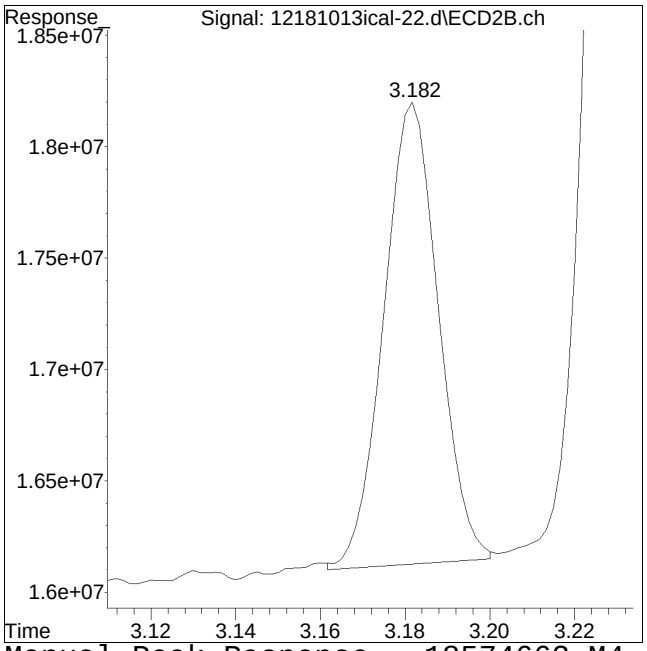
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-22.d
Date Inj'd : 10/13/2018 3:26 pm
Sample : il22154,42e,,8674

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:31 am

Compound #67: 1221-2 #2



Original Peak Response = 152379168



Manual Peak Response = 18574662 M4

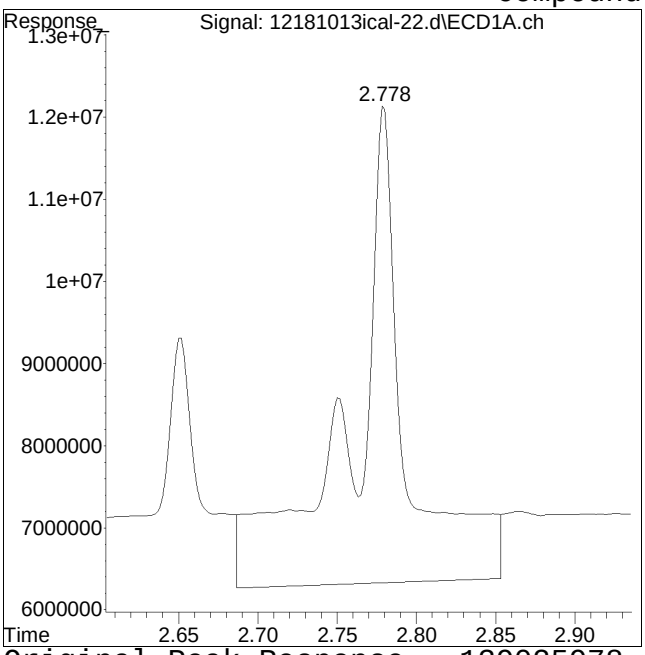
M4 = Poor automated baseline construction.

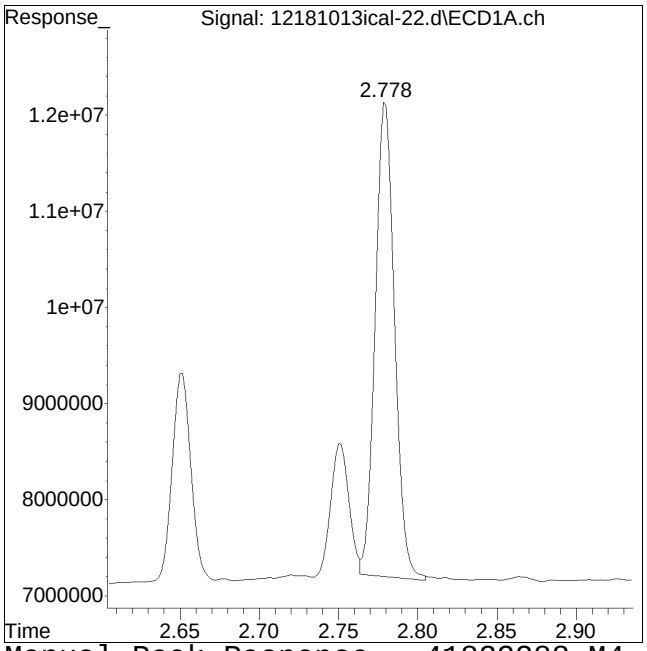
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-22.d
Date Inj'd : 10/13/2018 3:26 pm
Sample : il22154,42e,,8674

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:31 am

Compound #17: 1221-3





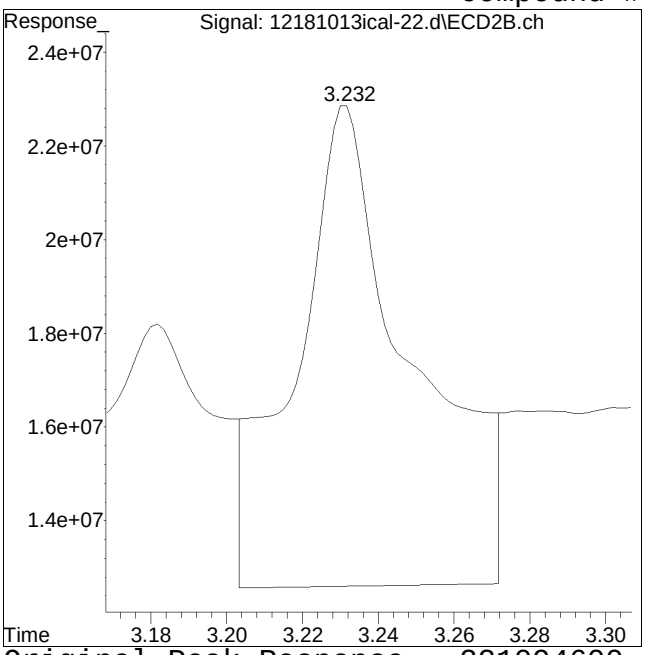
Original Peak Response = 139025978 Manual Peak Response = 41822288 M4
M4 = Poor automated baseline construction.

Manual Integration Report

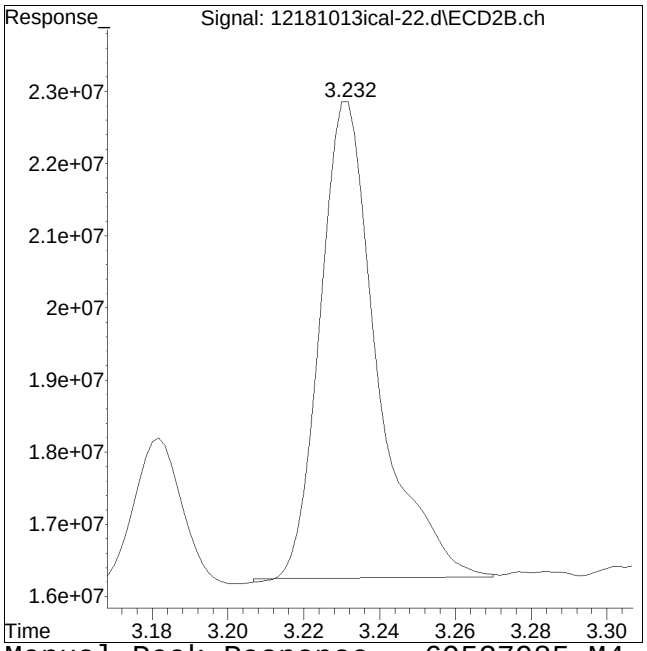
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-22.d
Date Inj'd : 10/13/2018 3:26 pm
Sample : il22154,42e,,8674

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:31 am

Compound #68: 1221-3 #2



Original Peak Response = 221094600



Manual Peak Response = 69537985 M4

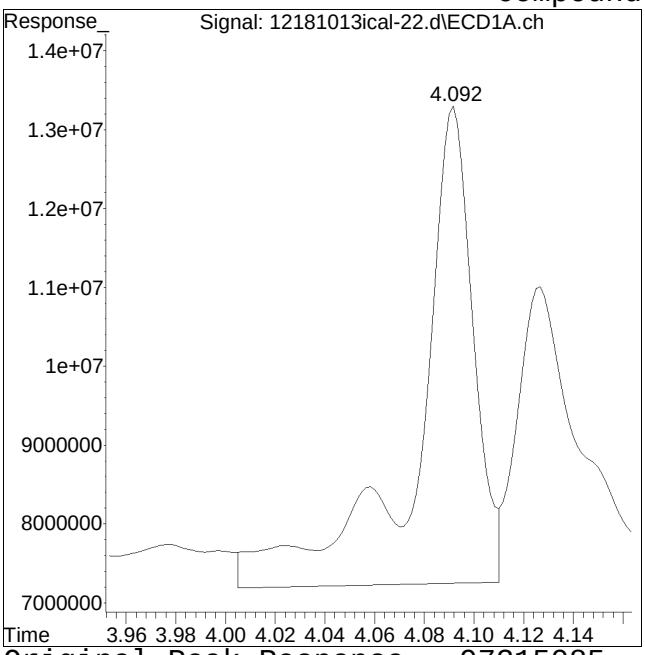
M4 = Poor automated baseline construction.

Manual Integration Report

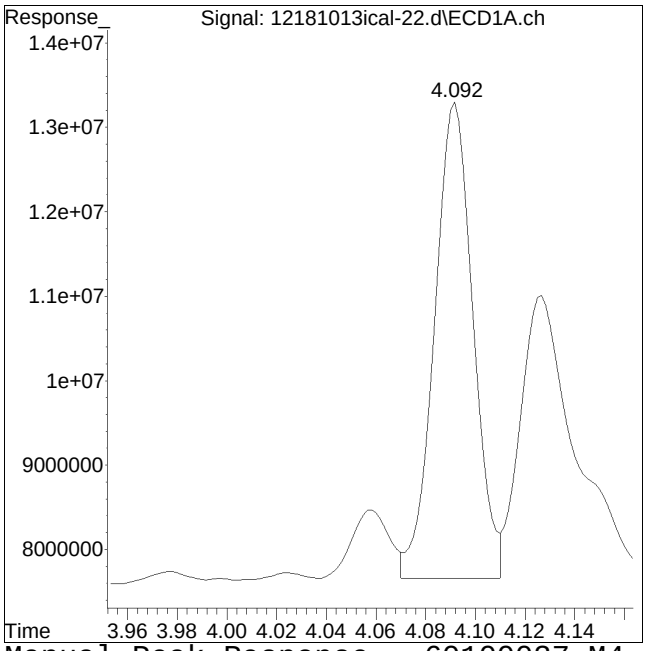
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-22.d
Date Inj'd : 10/13/2018 3:26 pm
Sample : il22154,42e,,8674

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:31 am

Compound #18: 1254-1



Original Peak Response = 97315085



Manual Peak Response = 60100037 M4

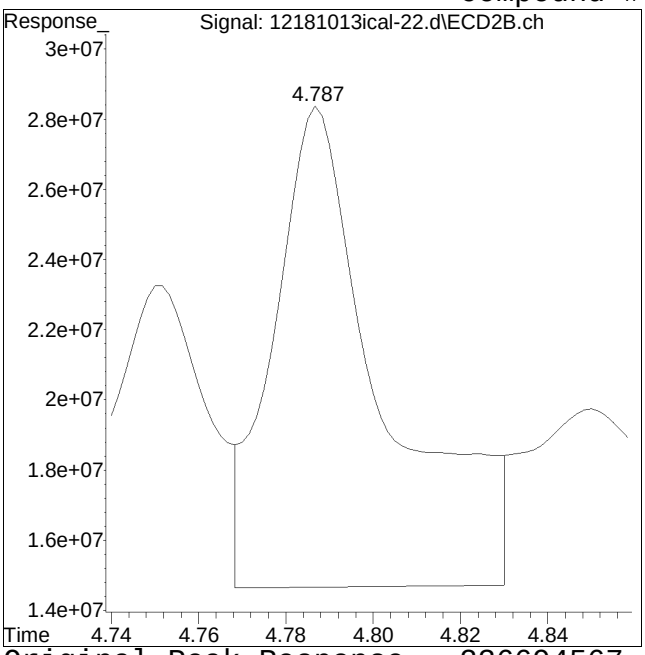
M4 = Poor automated baseline construction.

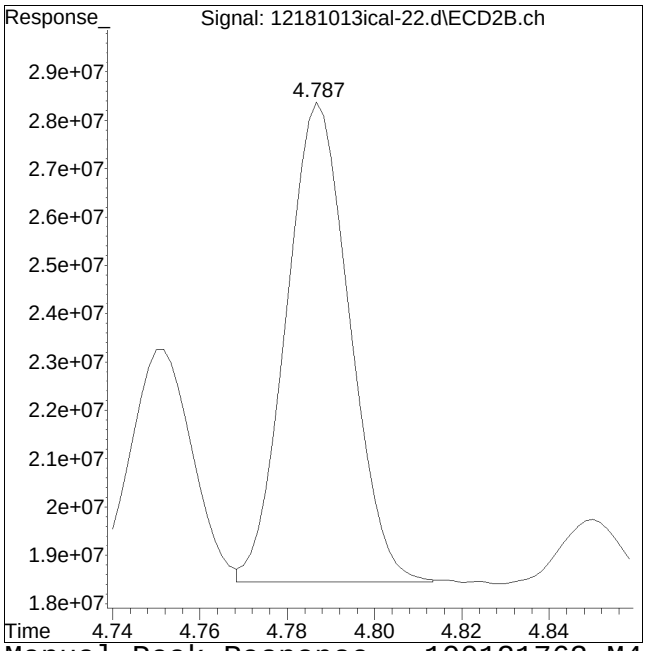
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-22.d
Date Inj'd : 10/13/2018 3:26 pm
Sample : il22154,42e,,8674

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:31 am

Compound #69: 1254-1 #2





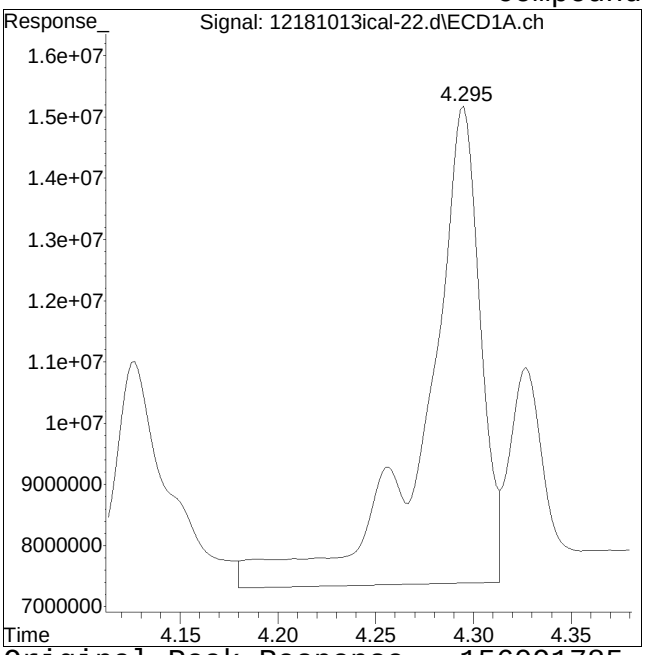
Original Peak Response = 236694567 Manual Peak Response = 100121763 M4
M4 = Poor automated baseline construction.

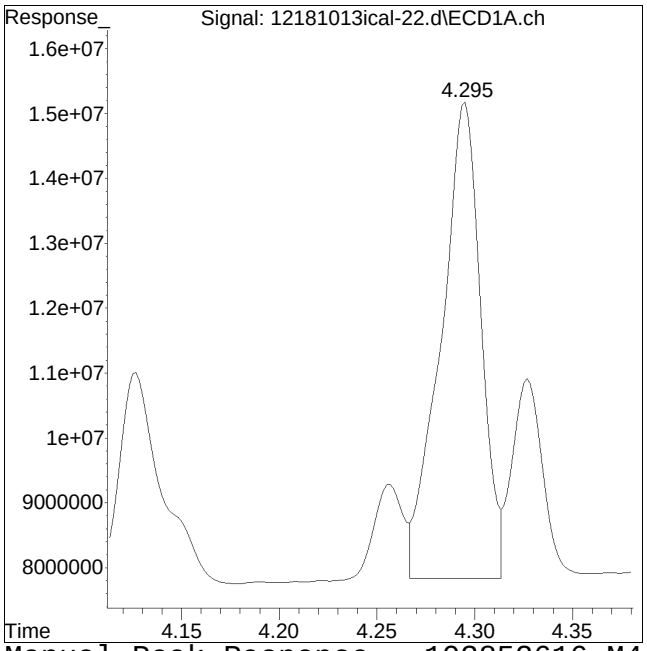
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-22.d
Date Inj'd : 10/13/2018 3:26 pm
Sample : il22154,42e,,8674

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:31 am

Compound #19: 1254-2





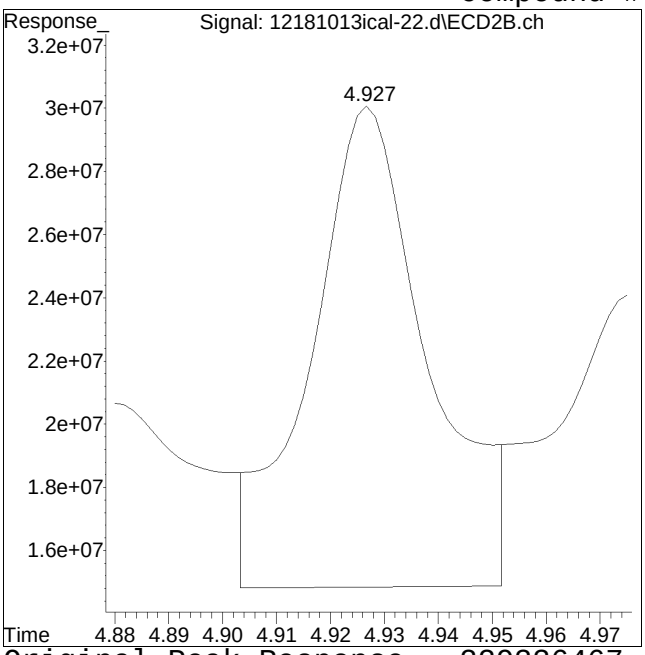
Original Peak Response = 156091785 Manual Peak Response = 103852616 M4
M4 = Poor automated baseline construction.

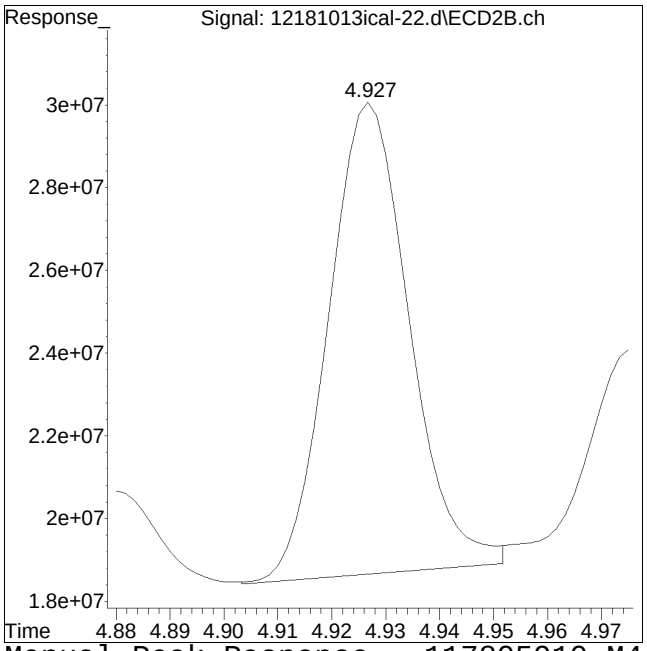
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-22.d
Date Inj'd : 10/13/2018 3:26 pm
Sample : il22154,42e,,8674

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:31 am

Compound #70: 1254-2 #2





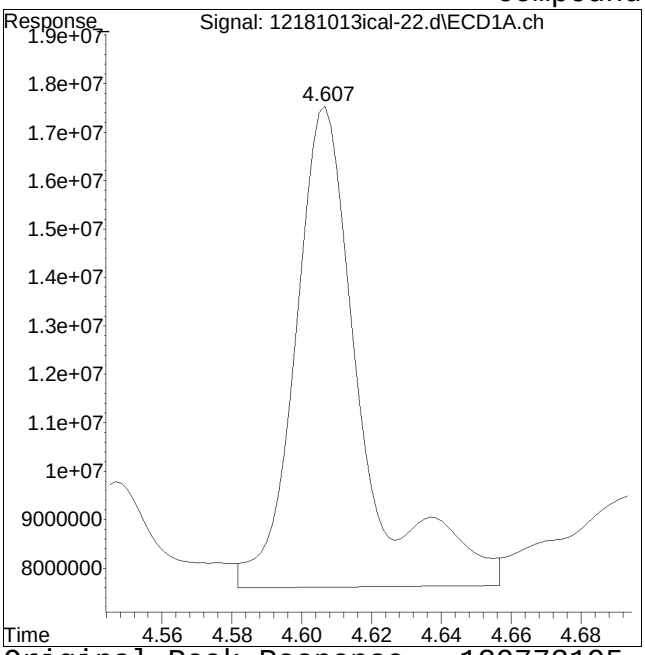
Original Peak Response = 229336467 Manual Peak Response = 117805910 M4
M4 = Poor automated baseline construction.

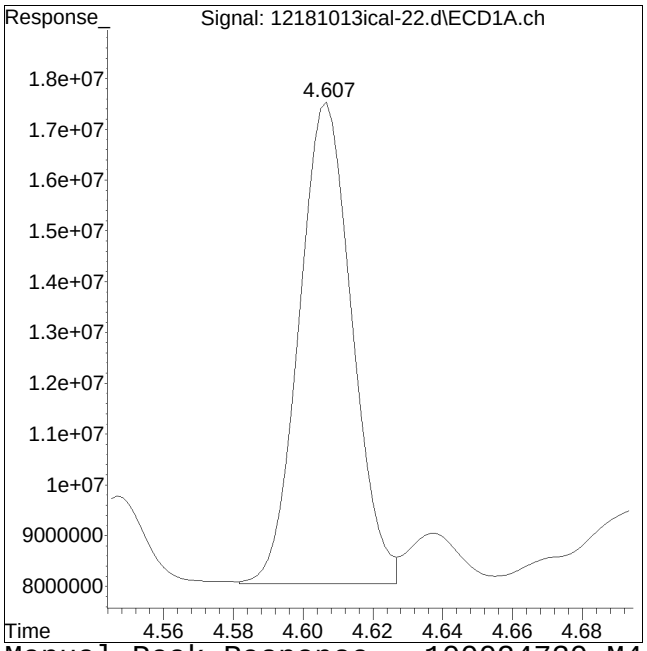
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-22.d
Date Inj'd : 10/13/2018 3:26 pm
Sample : il22154,42e,,8674

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:31 am

Compound #20: 1254-3





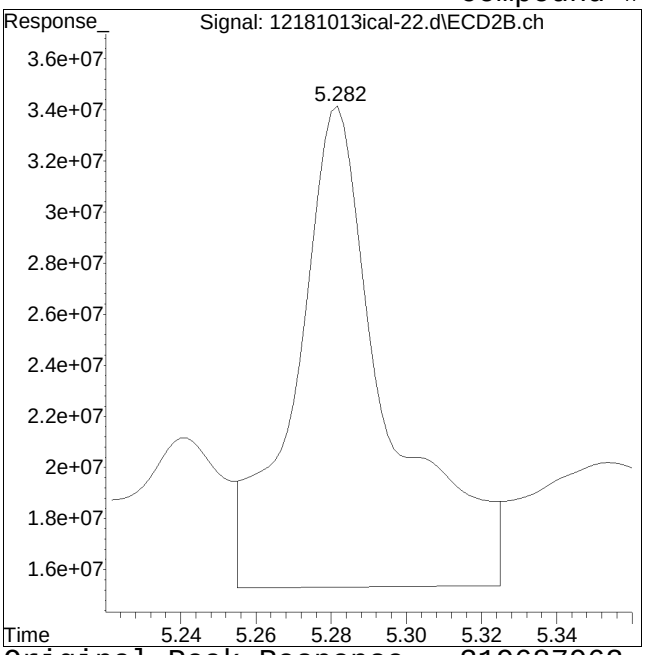
Original Peak Response = 129773195 Manual Peak Response = 100024730 M4
M4 = Poor automated baseline construction.

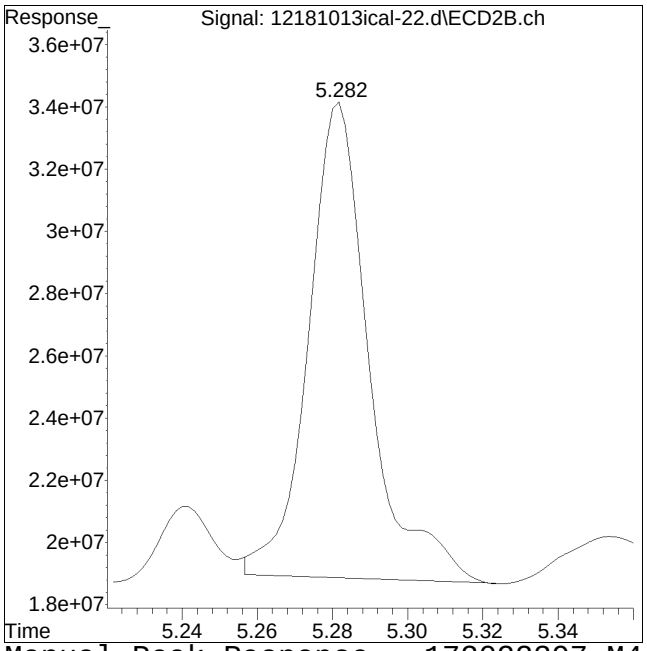
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-22.d
Date Inj'd : 10/13/2018 3:26 pm
Sample : il22154,42e,,8674

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:31 am

Compound #71: 1254-3 #2





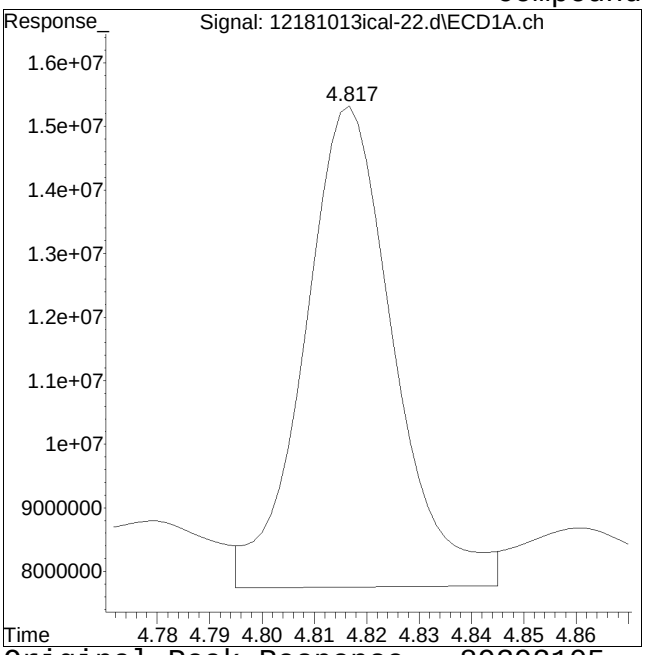
Original Peak Response = 319687962 Manual Peak Response = 172022397 M4
M4 = Poor automated baseline construction.

Manual Integration Report

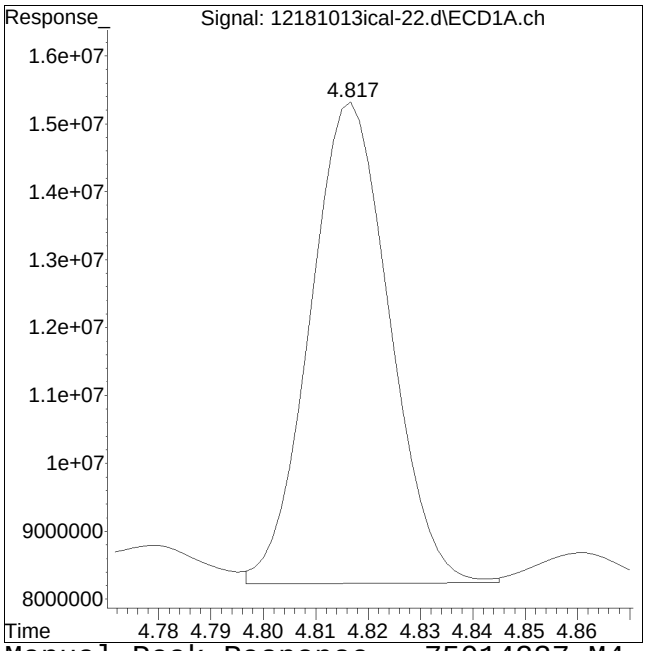
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-22.d
Date Inj'd : 10/13/2018 3:26 pm
Sample : il22154,42e,,8674

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:31 am

Compound #21: 1254-4



Original Peak Response = 89392105



Manual Peak Response = 75014237 M4

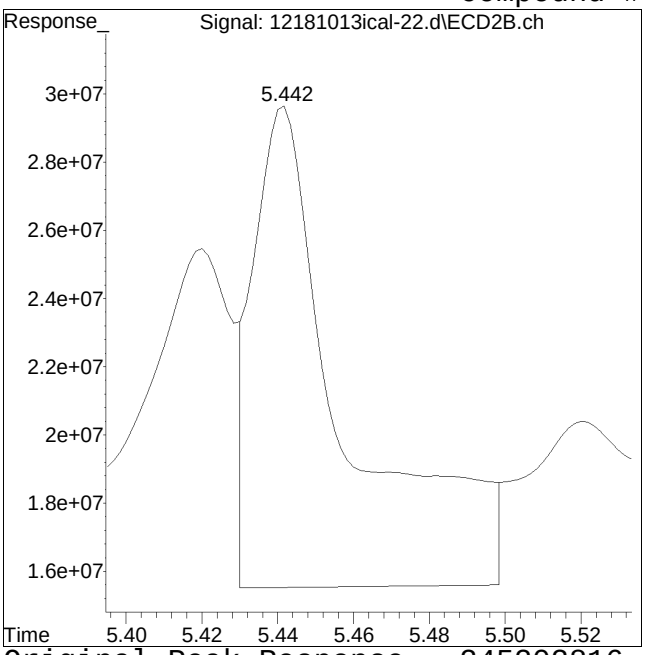
M4 = Poor automated baseline construction.

Manual Integration Report

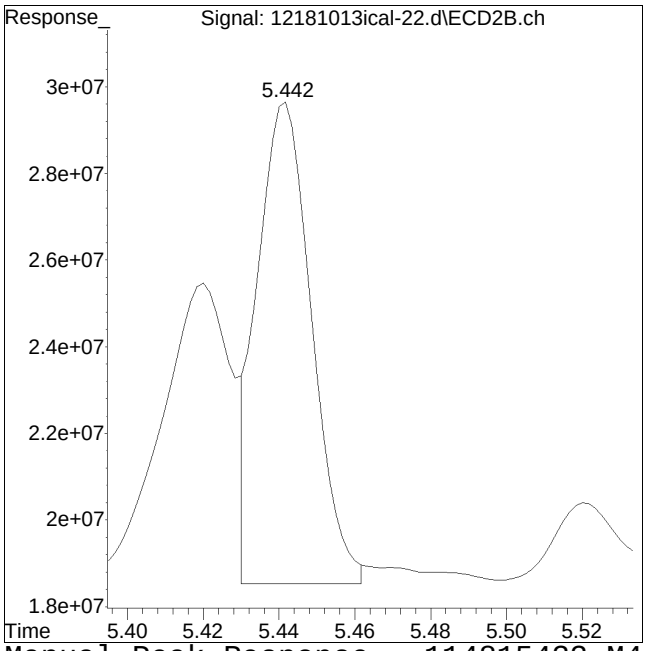
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-22.d
Date Inj'd : 10/13/2018 3:26 pm
Sample : il22154,42e,,8674

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:31 am

Compound #72: 1254-4 #2



Original Peak Response = 245202816



Manual Peak Response = 114815433 M4

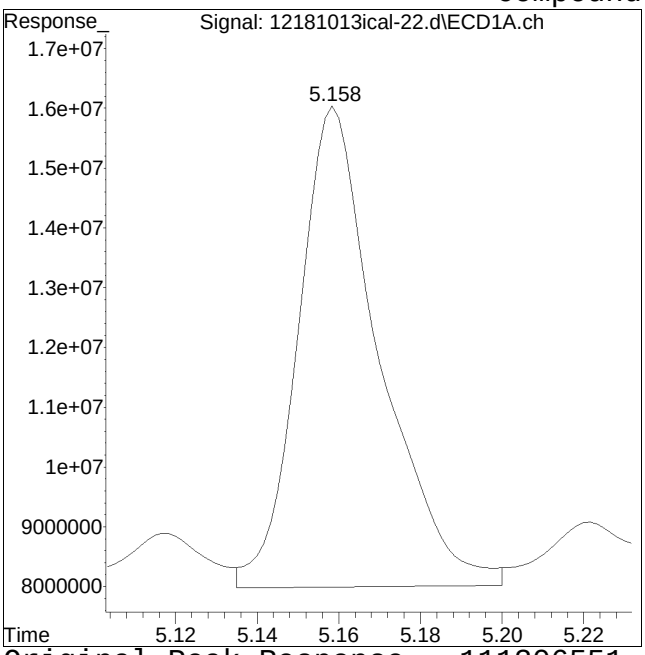
M4 = Poor automated baseline construction.

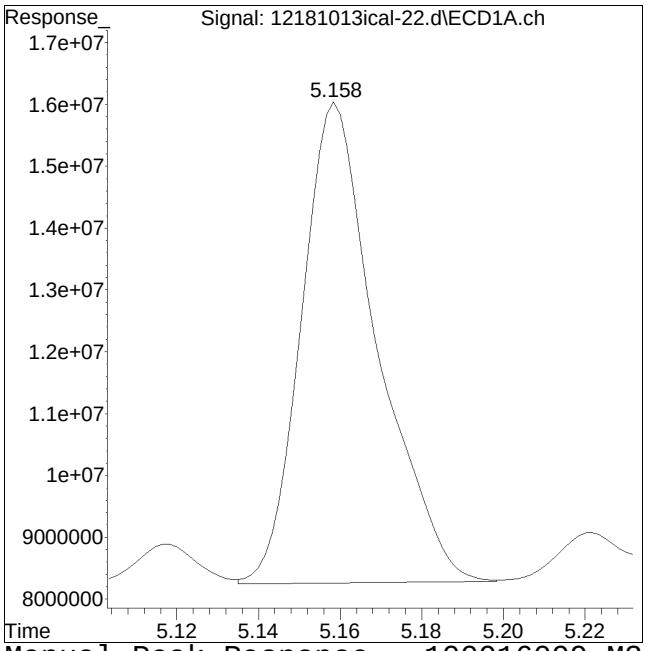
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-22.d
Date Inj'd : 10/13/2018 3:26 pm
Sample : il22154,42e,,8674

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:31 am

Compound #22: 1254-5





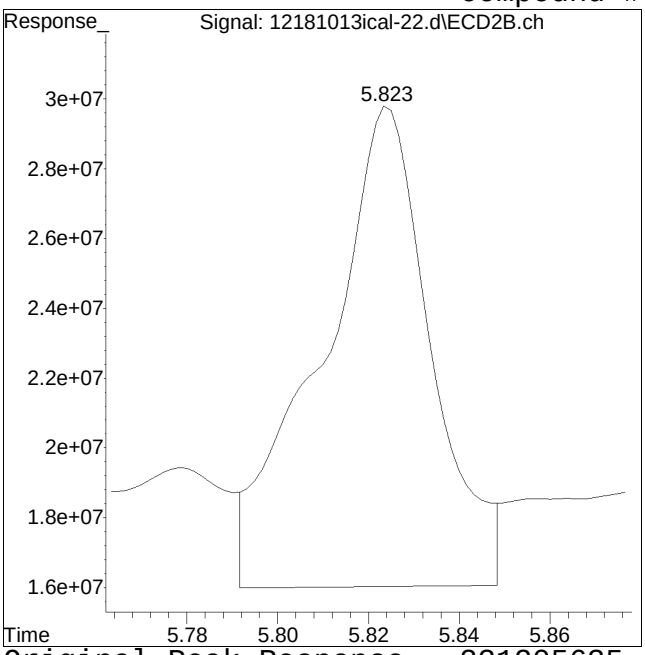
Original Peak Response = 111306551 Manual Peak Response = 100916099 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

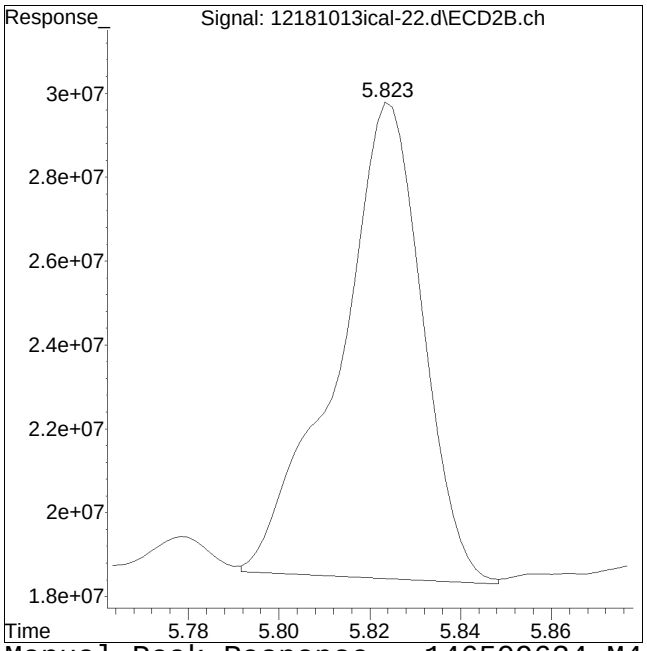
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-22.d
Date Inj'd : 10/13/2018 3:26 pm
Sample : il22154,42e,,8674

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:31 am

Compound #73: 1254-5 #2



Original Peak Response = 231205635



Manual Peak Response = 146509624 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-23.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 3:38 pm
Operator : Pest12:kb
Sample : il32154,42e,,8673
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 09:31:23 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 09:27:14 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	2.069	2.224	740.1E6	1129.1E6	250.000M4	250.000M4
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-1	2.650	3.070	33729499	57389331	1151.646M4	1169.932M4

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-23.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 3:38 pm
Operator : Pest12:kb
Sample : il32154,42e,,8673
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 09:31:23 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 09:27:14 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
16) l3	1221-2	2.750	3.181	21015517	36122221	1175.716M4	1180.643M4
17) l3	1221-3	2.779	3.231	77974809	130.8E6	1212.304M4	1184.371M4
Sum	1221-1			132.7E6	224.3E6	3539.666	3534.946
Average	1221-1					1179.889	1178.315
18) l4	1254-1	4.091	4.787	112.6E6	193.5E6	1167.003M4	1119.025M4
19) l4	1254-2	4.294	4.926	197.2E6	221.9E6	1162.800M3	1128.000M4
20) l4	1254-3	4.605	5.281	189.7E6	326.7E6	1139.021M3	1108.758M4
21) l4	1254-4	4.817	5.441	152.0E6	212.0E6	1150.048	1081.393M4
22) l4	1254-5	5.159	5.824	199.5E6	274.8E6	1137.941	1089.248M4
Sum	1254-1			851.0E6	1228.9E6	NoCal	NoCal D
Average	1254-1					1151.363	1105.285
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-23.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 3:38 pm
Operator : Pest12:kb
Sample : il32154,42e,,8673
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 09:31:23 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 09:27:14 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
35) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
41) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
46) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-23.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 3:38 pm
Operator : Pest12:kb
Sample : il32154,42e,,8673
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 09:31:23 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 09:27:14 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

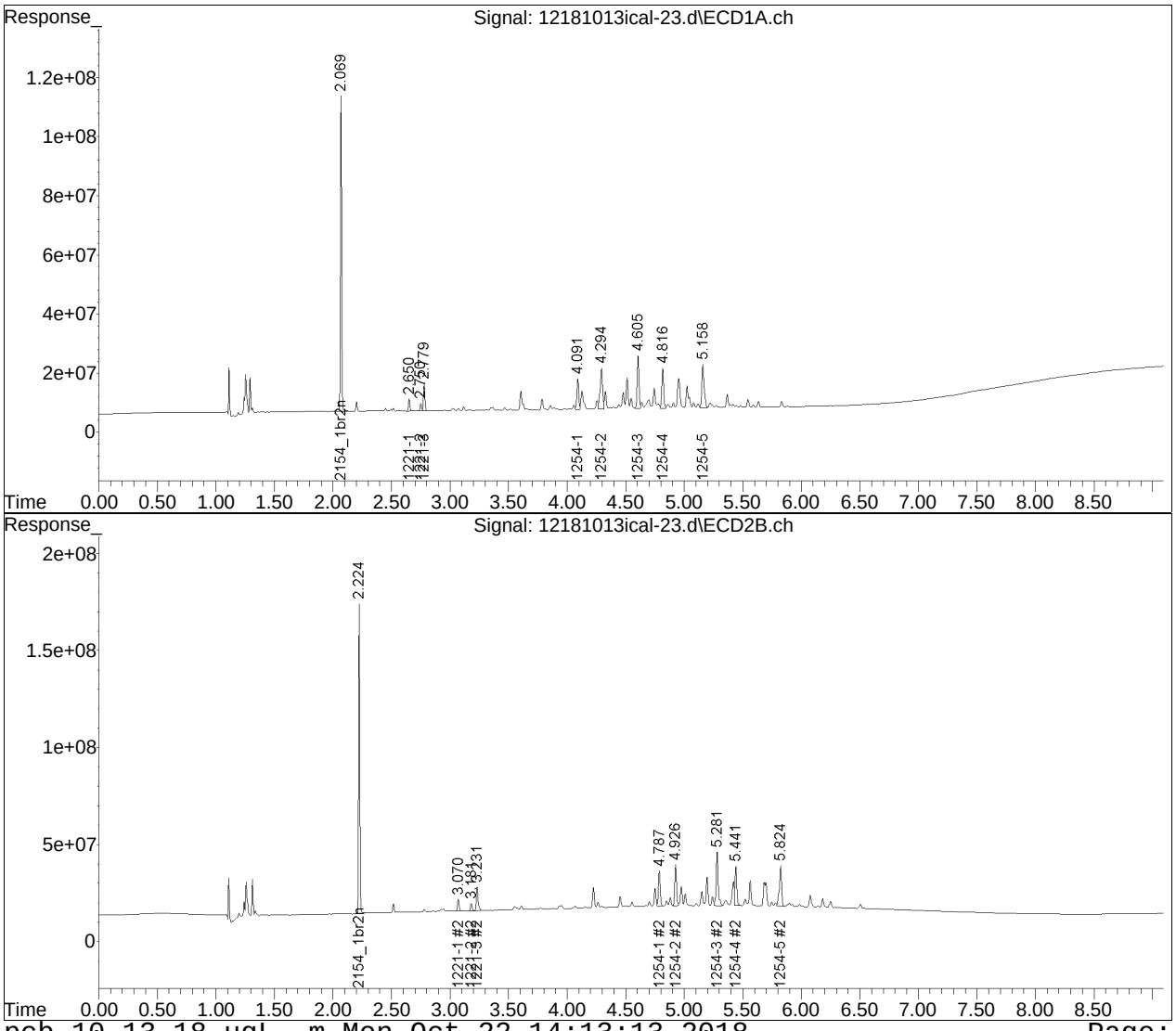
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-23.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 3:38 pm
Operator : Pest12:kb
Sample : il32154,42e,,8673
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 09:31:23 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 09:27:14 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

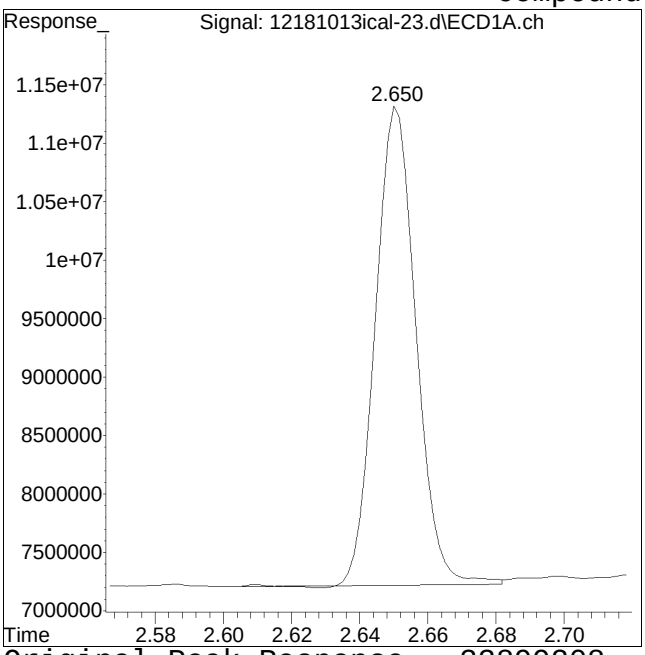


Manual Integration Report

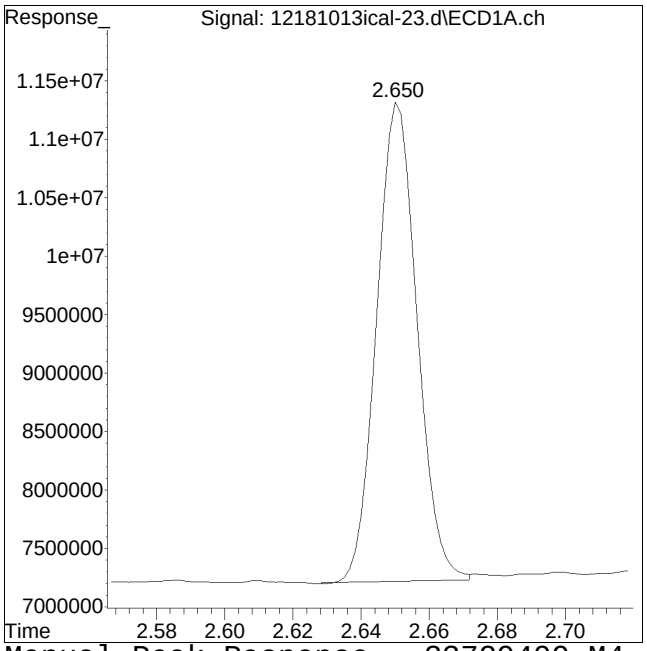
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-23.d
Date Inj'd : 10/13/2018 3:38 pm
Sample : il32154,42e,,8673

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:27 am

Compound #15: 1221-1



Original Peak Response = 33899208



Manual Peak Response = 33729499 M4

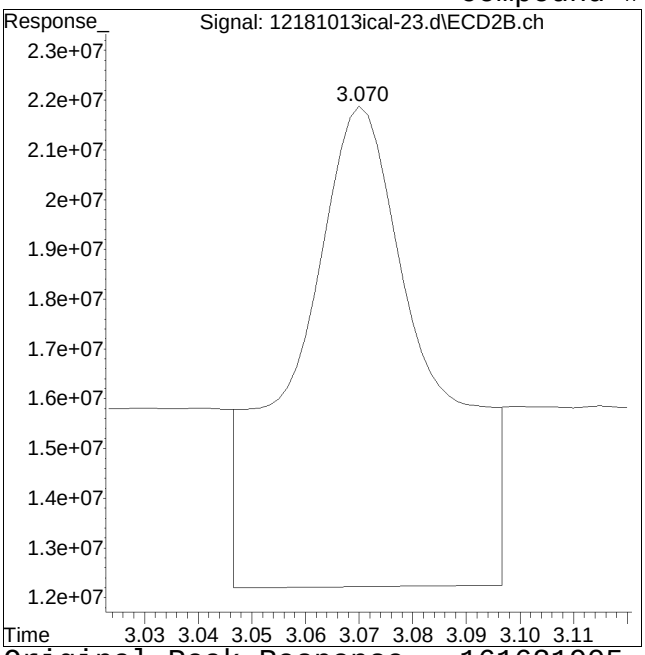
M4 = Poor automated baseline construction.

Manual Integration Report

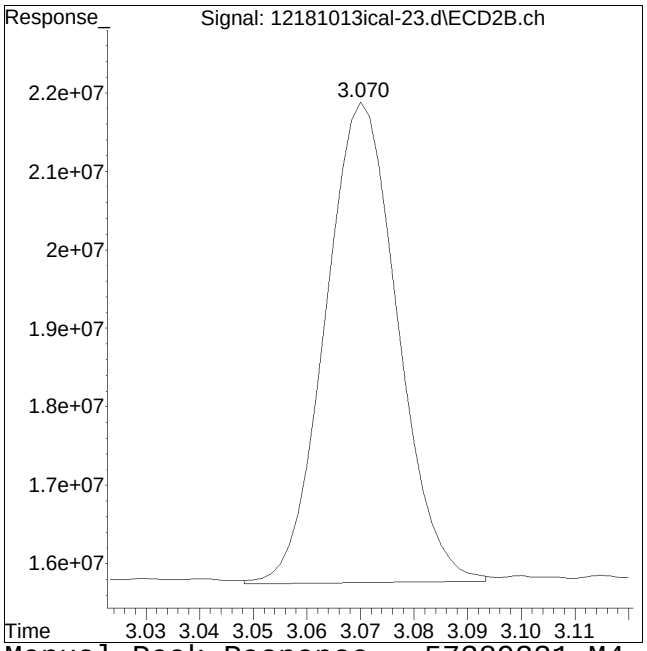
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-23.d
Date Inj'd : 10/13/2018 3:38 pm
Sample : il32154,42e,,8673

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:27 am

Compound #66: 1221-1 #2



Original Peak Response = 161621905



Manual Peak Response = 57389331 M4

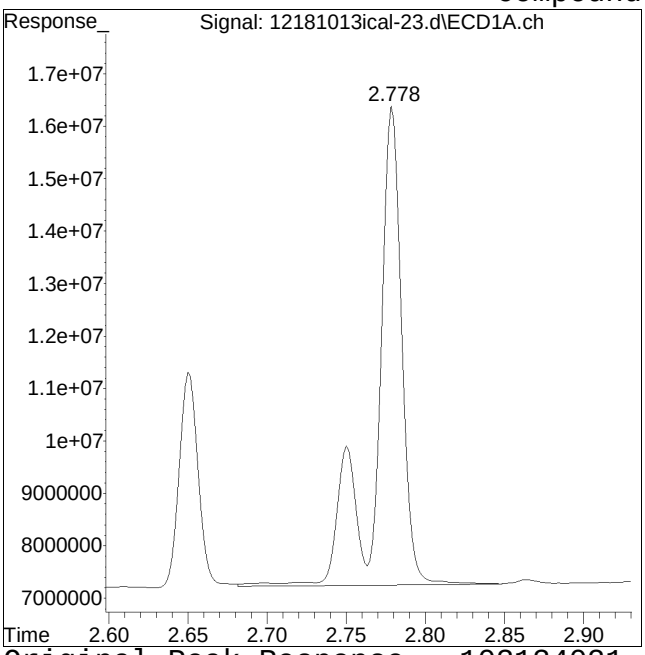
M4 = Poor automated baseline construction.

Manual Integration Report

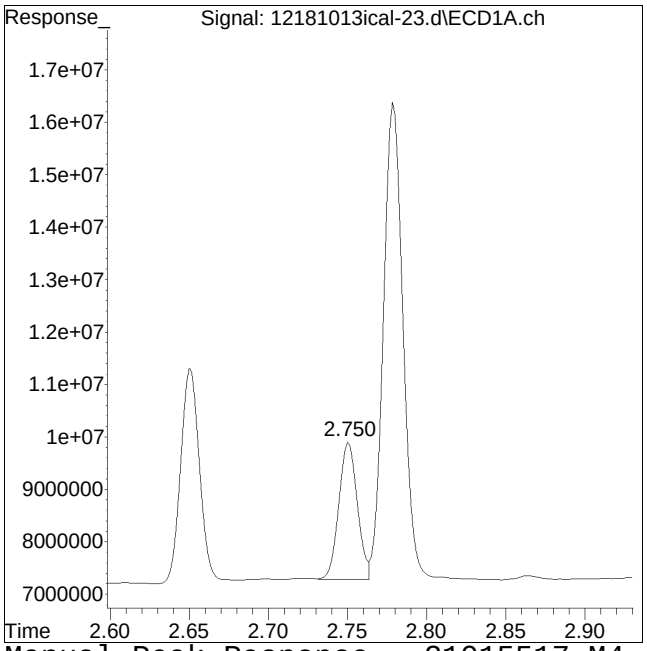
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-23.d
Date Inj'd : 10/13/2018 3:38 pm
Sample : il32154,42e,,8673

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:27 am

Compound #16: 1221-2



Original Peak Response = 103134021



Manual Peak Response = 21015517 M4

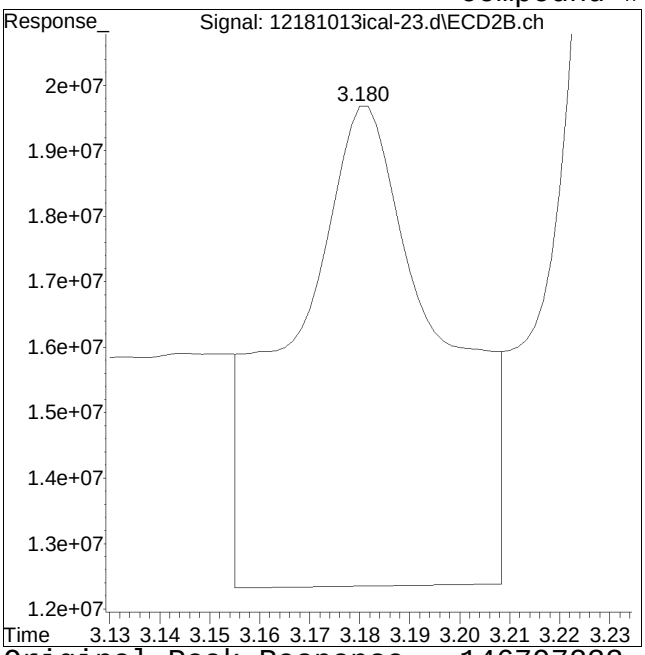
M4 = Poor automated baseline construction.

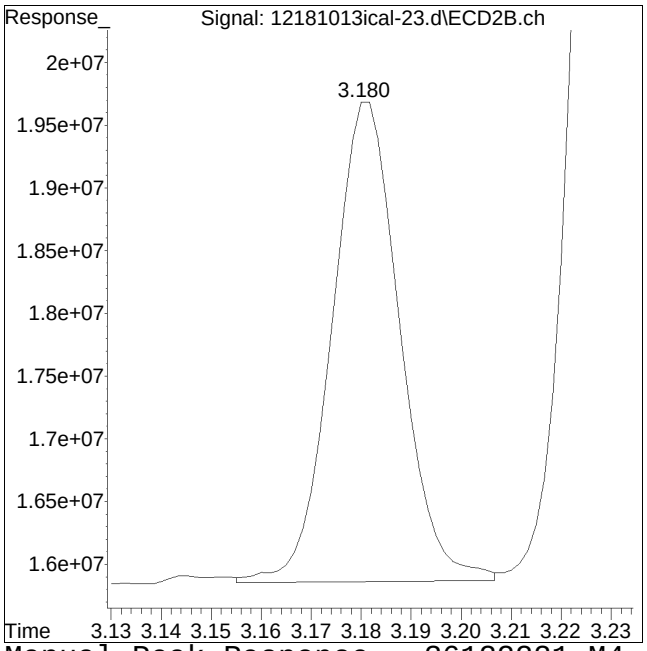
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-23.d
Date Inj'd : 10/13/2018 3:38 pm
Sample : il32154,42e,,8673

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:27 am

Compound #67: 1221-2 #2





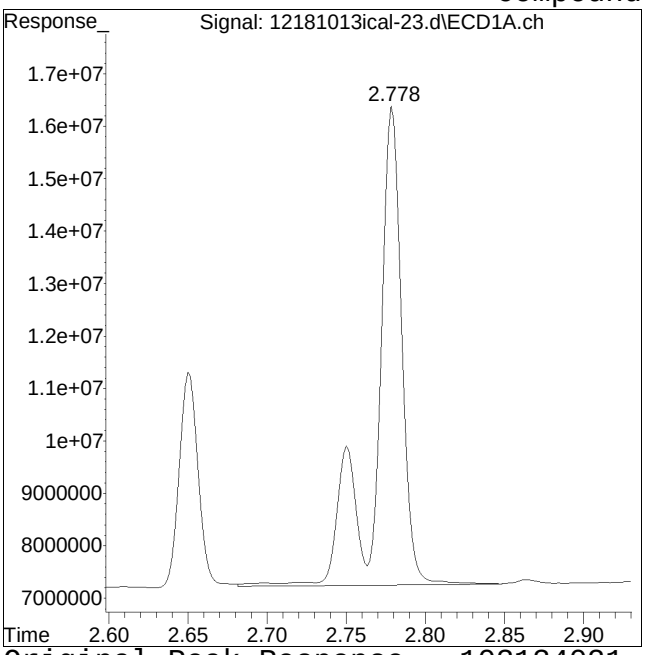
Original Peak Response = 146797233 Manual Peak Response = 36122221 M4
M4 = Poor automated baseline construction.

Manual Integration Report

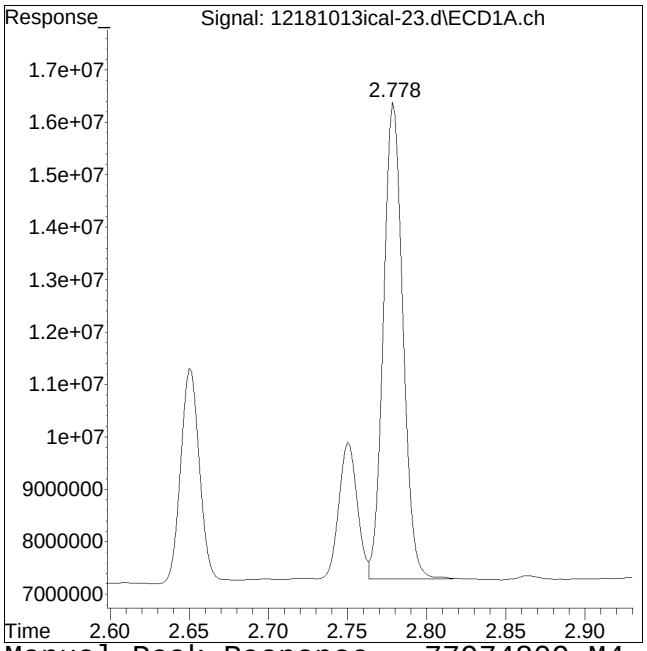
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-23.d
Date Inj'd : 10/13/2018 3:38 pm
Sample : il32154,42e,,8673

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:27 am

Compound #17: 1221-3



Original Peak Response = 103134021



Manual Peak Response = 77974809 M4

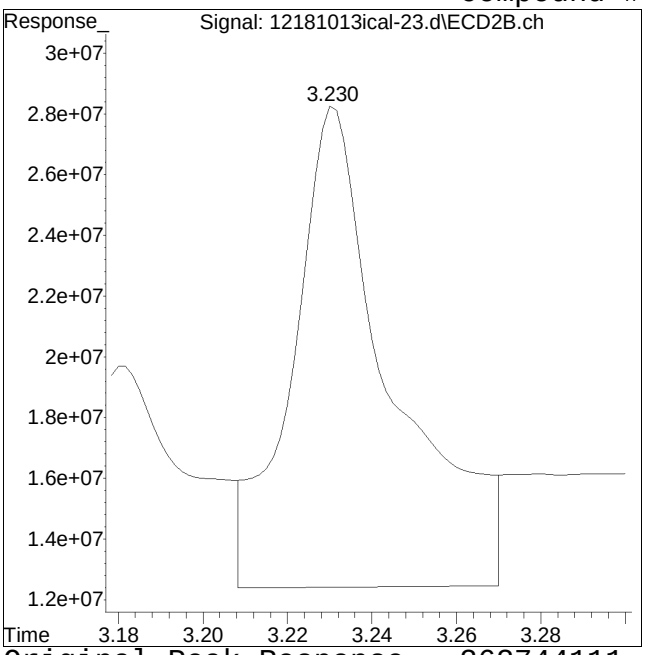
M4 = Poor automated baseline construction.

Manual Integration Report

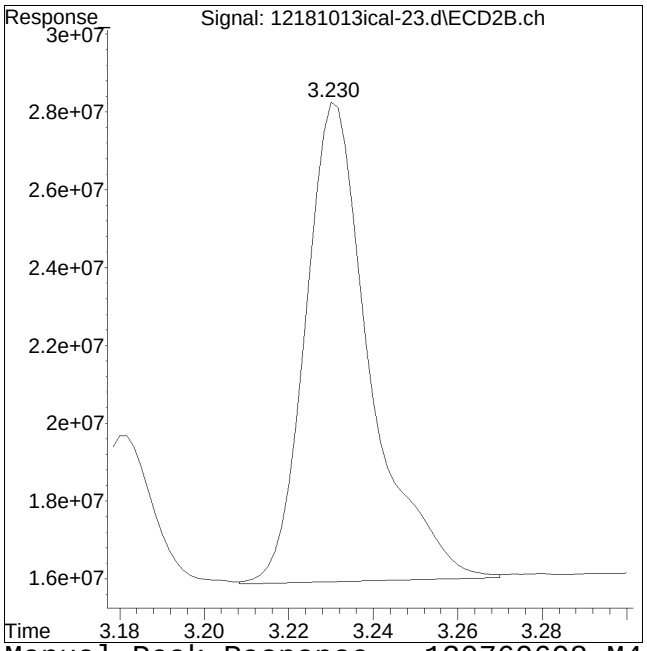
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-23.d
Date Inj'd : 10/13/2018 3:38 pm
Sample : il32154,42e,,8673

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:27 am

Compound #68: 1221-3 #2



Original Peak Response = 262744111



Manual Peak Response = 130760698 M4

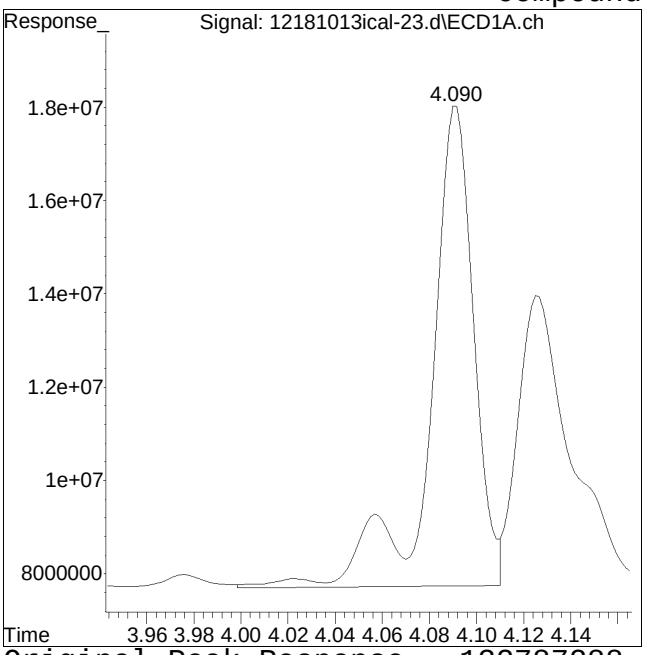
M4 = Poor automated baseline construction.

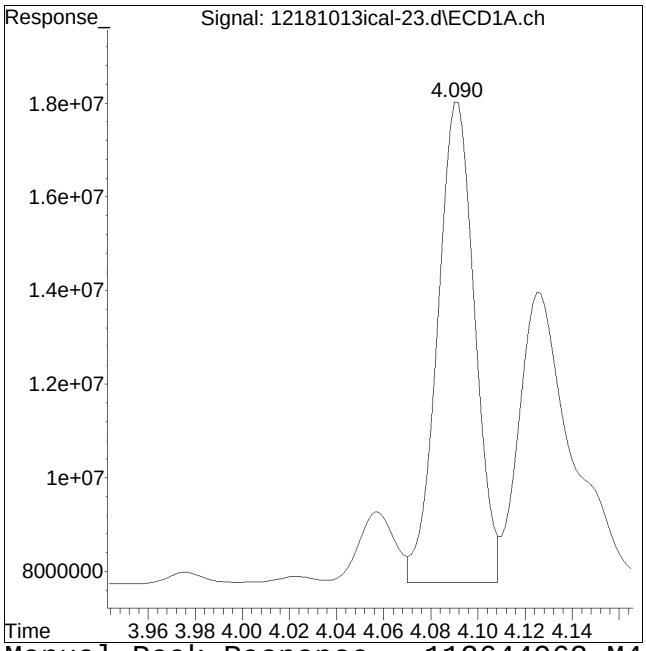
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-23.d
Date Inj'd : 10/13/2018 3:38 pm
Sample : il32154,42e,,8673

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:27 am

Compound #18: 1254-1





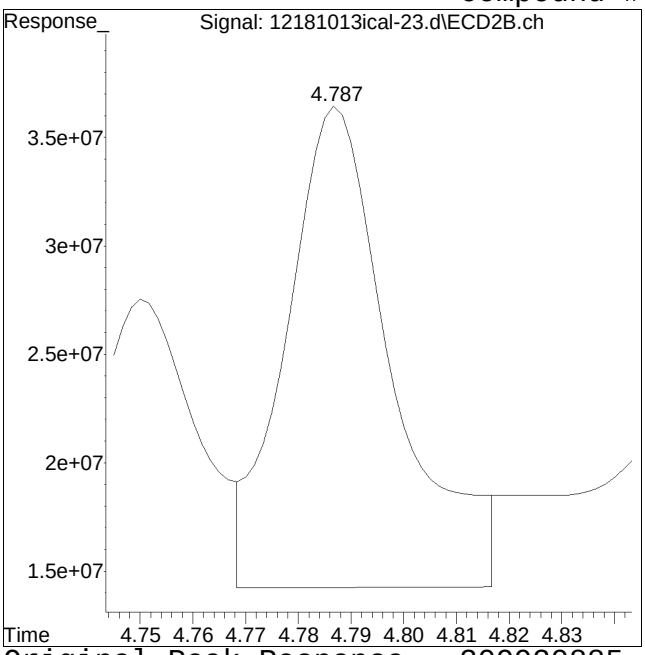
Original Peak Response = 132787288 Manual Peak Response = 112644962 M4
M4 = Poor automated baseline construction.

Manual Integration Report

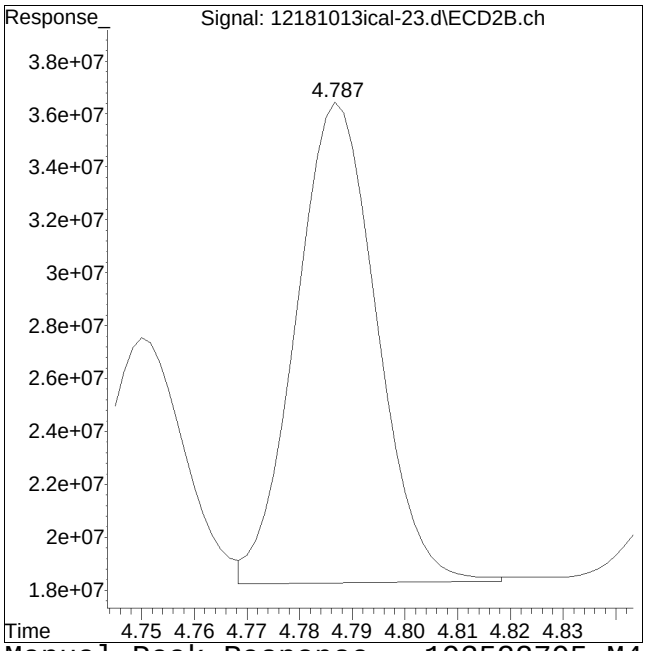
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-23.d
Date Inj'd : 10/13/2018 3:38 pm
Sample : il32154,42e,,8673

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:27 am

Compound #69: 1254-1 #2



Original Peak Response = 309920885



Manual Peak Response = 193522795 M4

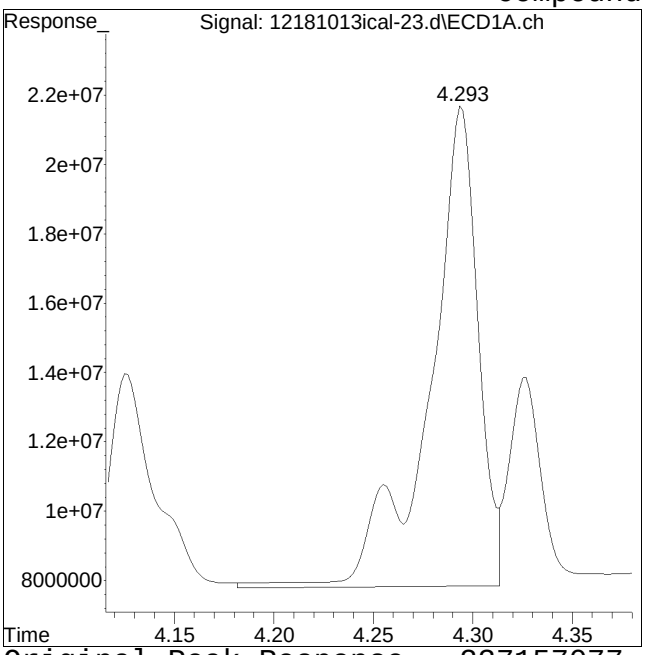
M4 = Poor automated baseline construction.

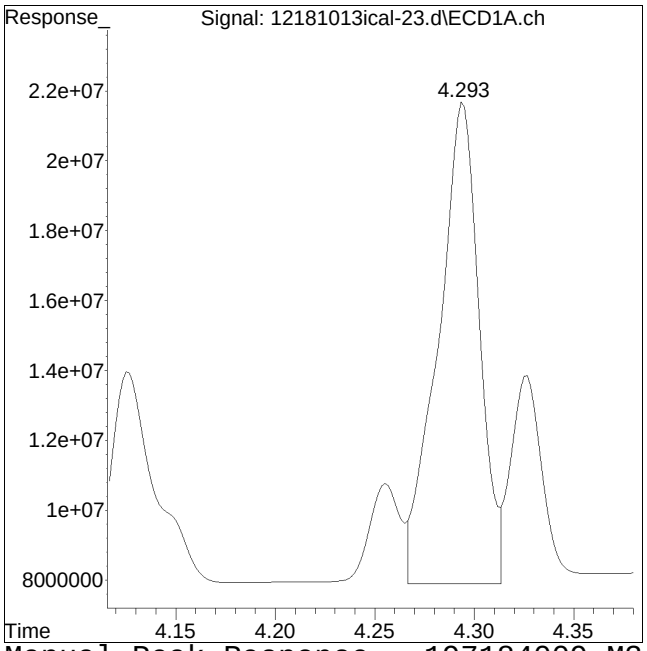
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-23.d
Date Inj'd : 10/13/2018 3:38 pm
Sample : il32154,42e,,8673

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:27 am

Compound #19: 1254-2





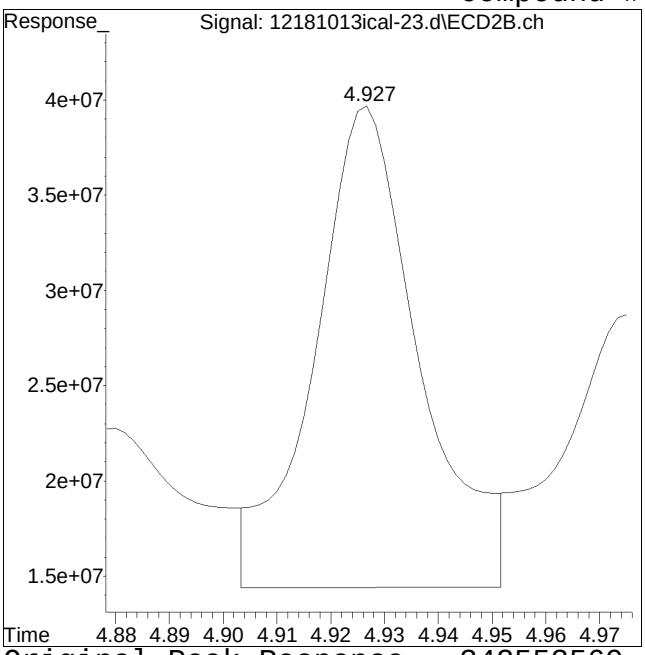
Original Peak Response = 237157077 Manual Peak Response = 197184009 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

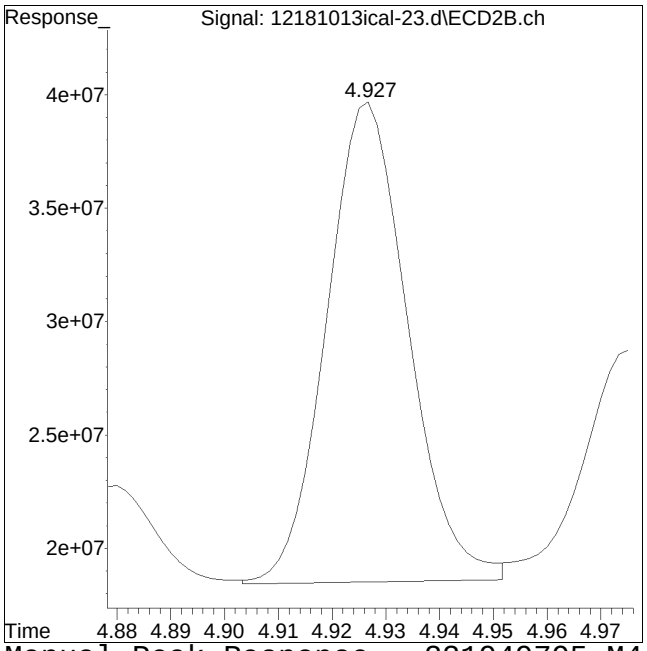
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-23.d
Date Inj'd : 10/13/2018 3:38 pm
Sample : il32154,42e,,8673

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:27 am

Compound #70: 1254-2 #2



Original Peak Response = 342553569



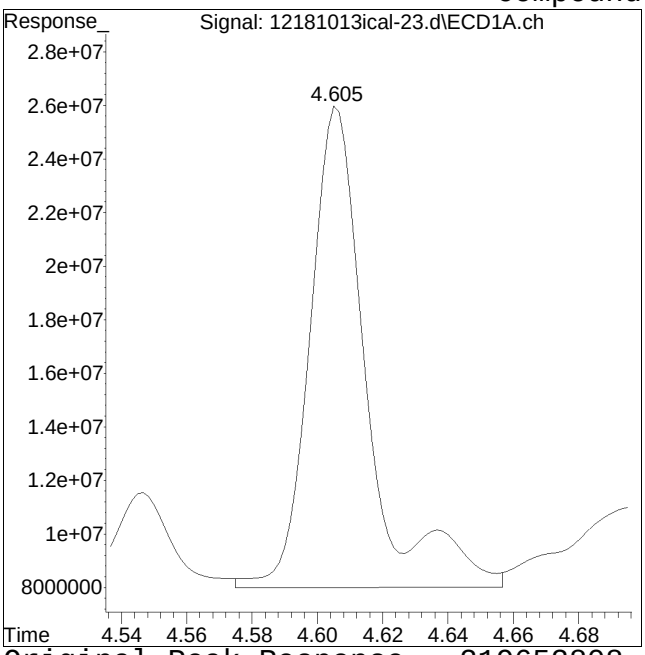
Manual Peak Response = 221949795 M4

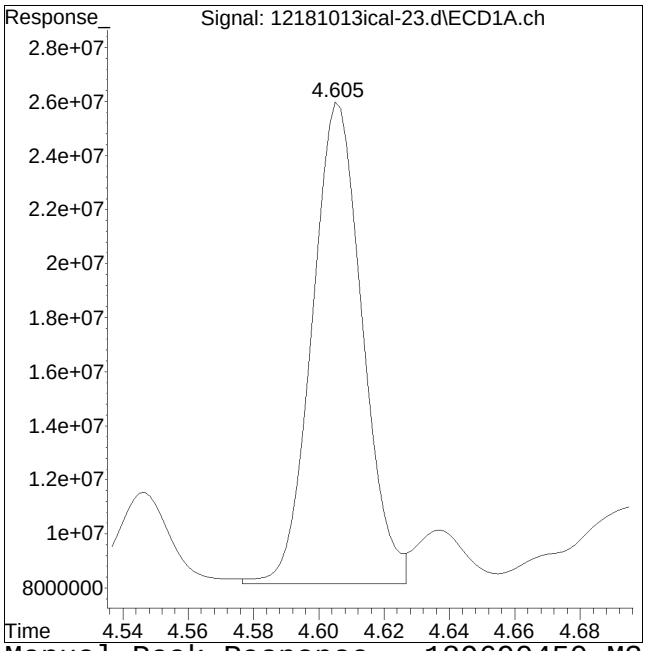
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path	: I:\Pest12\181013ical\	QMethod	: P12_pcb_10-13-18_ugL_.m
Data File	: 12181013ical-23.d	Operator	: Pest12:kb
Date Inj'd	: 10/13/2018 3:38 pm	Instrument	: Pest 12
Sample	: il32154,42e,,8673	Quant Date	: 10/16/2018 9:27 am

Compound #20: 1254-3





Original Peak Response = 219652808 Manual Peak Response = 189690450 M3

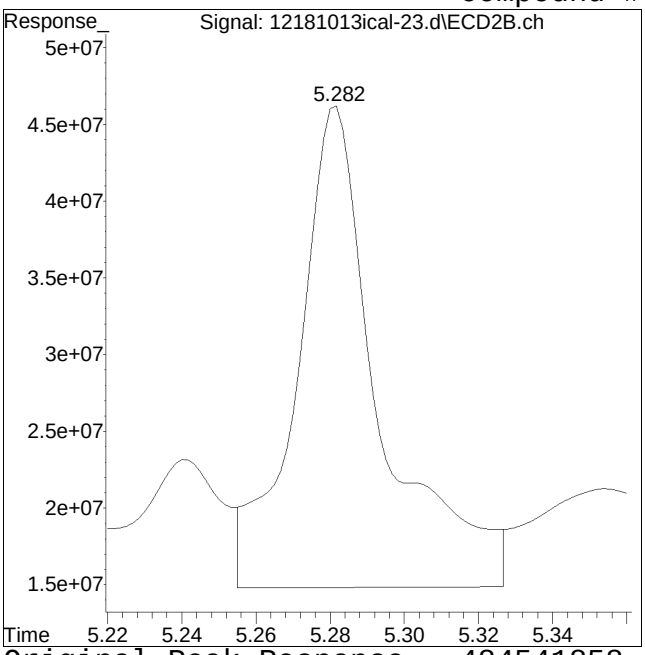
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

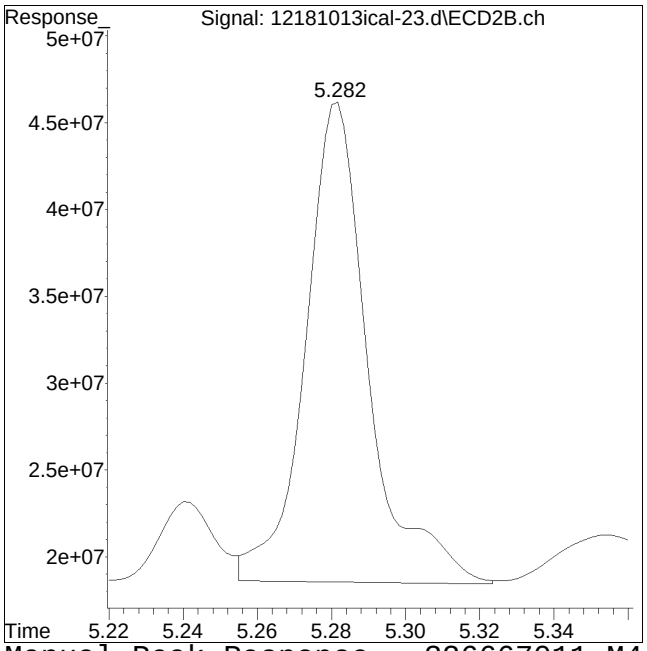
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-23.d
Date Inj'd : 10/13/2018 3:38 pm
Sample : il32154,42e,,8673

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:27 am

Compound #71: 1254-3 #2





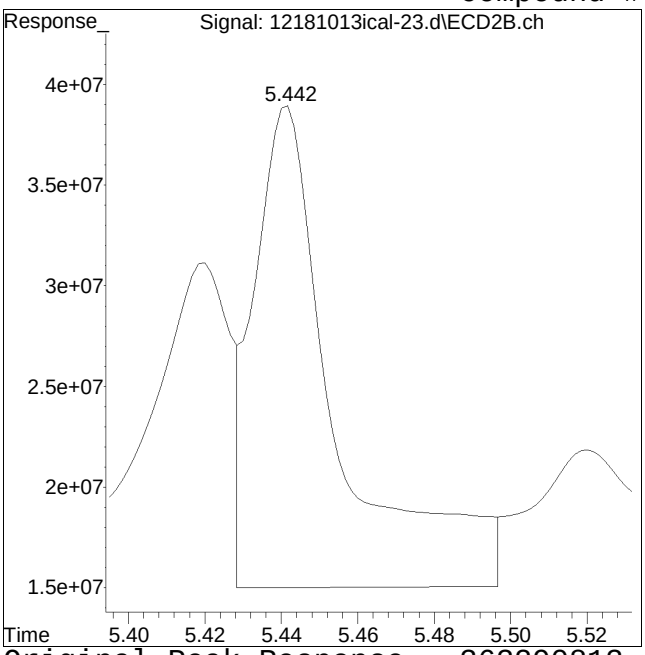
Original Peak Response = 484541858 Manual Peak Response = 326667011 M4
M4 = Poor automated baseline construction.

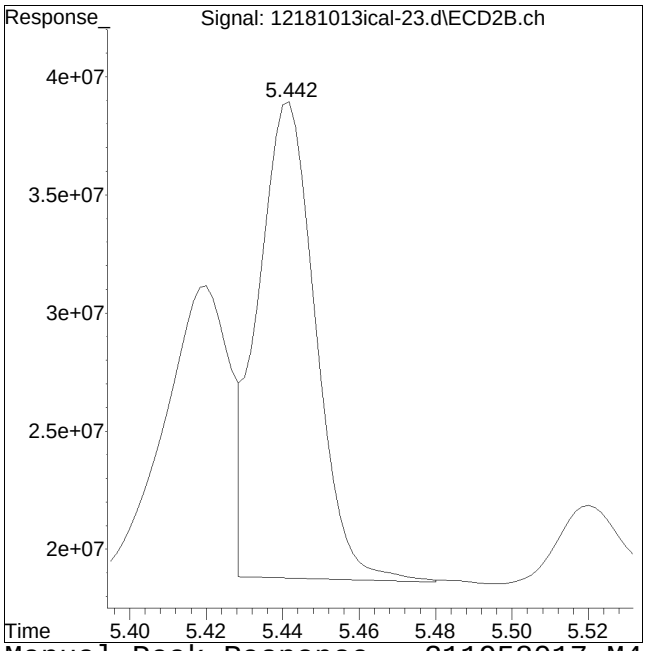
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-23.d
Date Inj'd : 10/13/2018 3:38 pm
Sample : il32154,42e,,8673

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:27 am

Compound #72: 1254-4 #2





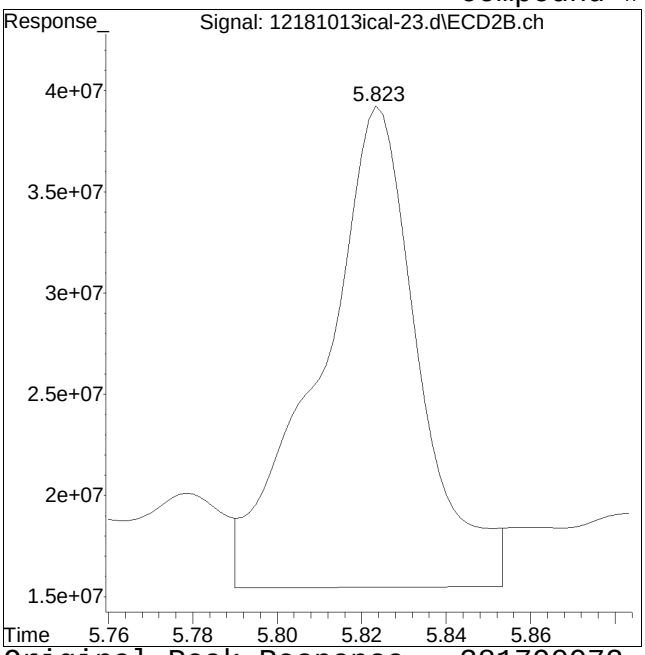
Original Peak Response = 363290813 Manual Peak Response = 211958017 M4
M4 = Poor automated baseline construction.

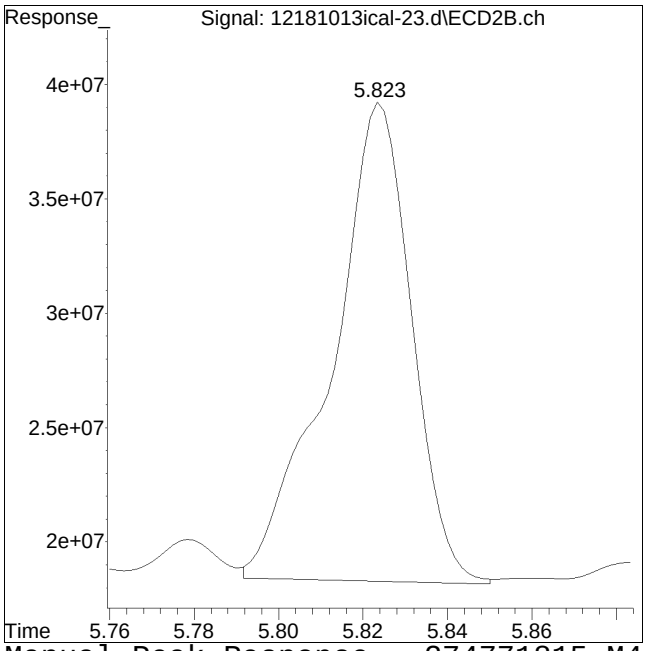
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-23.d
Date Inj'd : 10/13/2018 3:38 pm
Sample : il32154,42e,,8673

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:27 am

Compound #73: 1254-5 #2





Original Peak Response = 381790972 Manual Peak Response = 274771815 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-24.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 3:51 pm
Operator : Pest12:kb
Sample : il42154,42e,,8672
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 09:16:47 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 09:12:24 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	2.069	2.224	766.2E6	1175.5E6	250.000M4	250.000M4
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-1	2.650	3.071	81676702	136.2E6	NoCal M4	NoCal
16) l3	1221-2	2.750	3.181	49988704	85231354	NoCal M4	NoCal M4

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-24.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 3:51 pm
Operator : Pest12:kb
Sample : il42154,42e,,8672
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 09:16:47 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 09:12:24 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3	1221-3	2.779	3.231	182.2E6	310.6E6	NoCal M4	NoCal M4
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	4.091	4.787	263.0E6	477.9E6	NoCal M4	NoCal M4
19) l4	1254-2	4.294	4.927	471.3E6	545.5E6	NoCal M3	NoCal M4
20) l4	1254-3	4.606	5.281	456.2E6	804.5E6	NoCal M3	NoCal M4
21) l4	1254-4	4.817	5.441	363.4E6	529.5E6	NoCal	NoCal M4
22) l4	1254-5	5.160	5.824	480.4E6	683.2E6	NoCal	NoCal M4
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-24.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 3:51 pm
Operator : Pest12:kb
Sample : il42154,42e,,8672
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 09:16:47 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 09:12:24 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-24.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 3:51 pm
Operator : Pest12:kb
Sample : il42154,42e,,8672
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 09:16:47 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 09:12:24 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

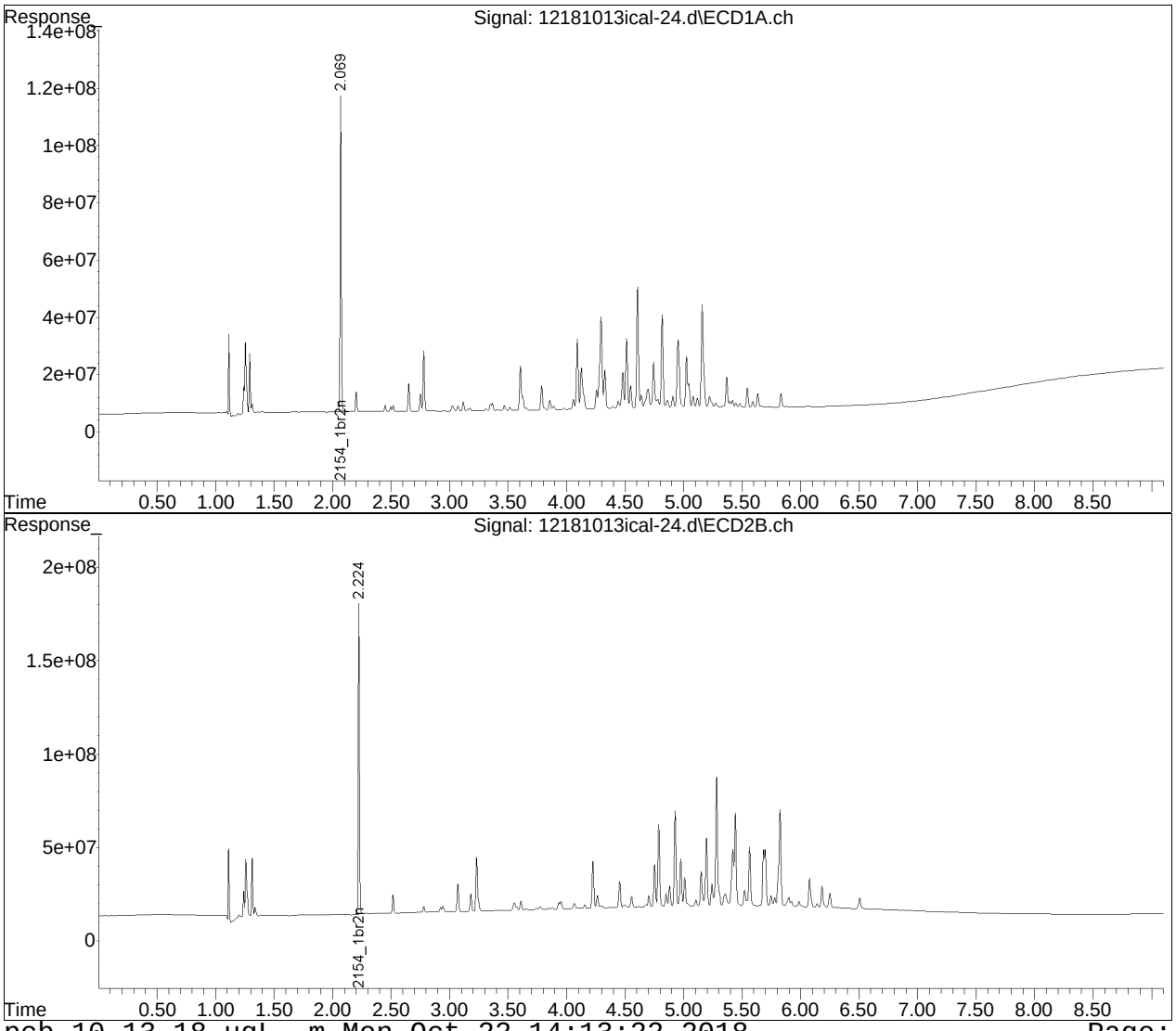
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-24.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 3:51 pm
Operator : Pest12:kb
Sample : il42154,42e,,8672
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 09:16:47 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 09:12:24 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

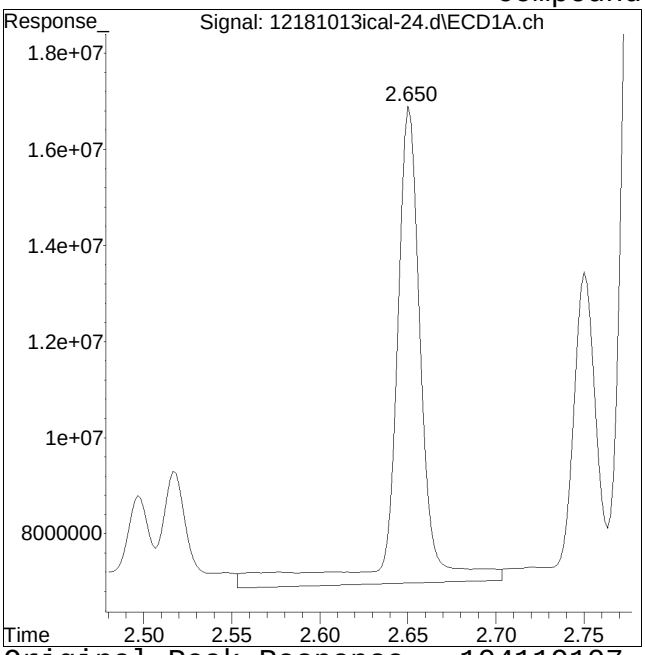


Manual Integration Report

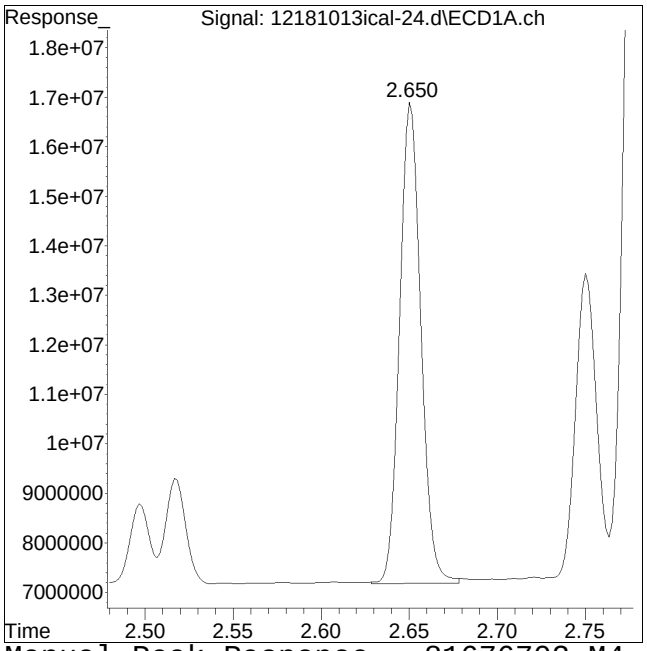
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-24.d
Date Inj'd : 10/13/2018 3:51 pm
Sample : il42154,42e,,8672

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:12 am

Compound #15: 1221-1



Original Peak Response = 104119107



Manual Peak Response = 81676702 M4

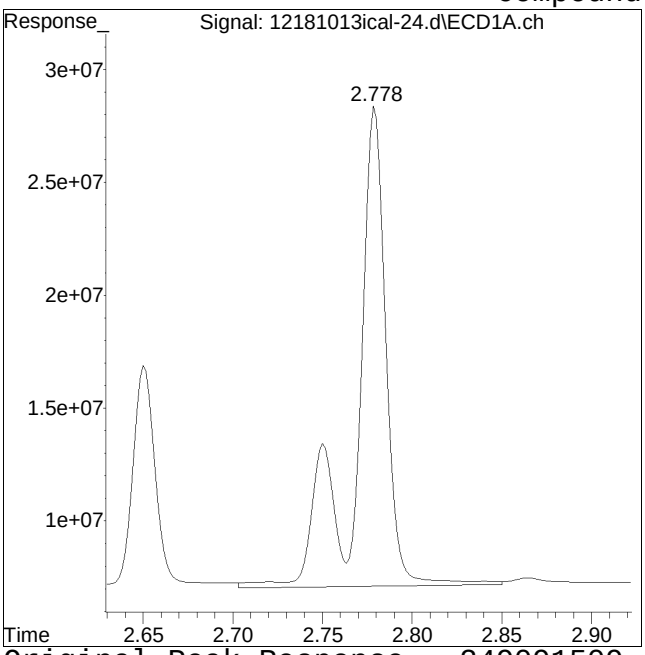
M4 = Poor automated baseline construction.

Manual Integration Report

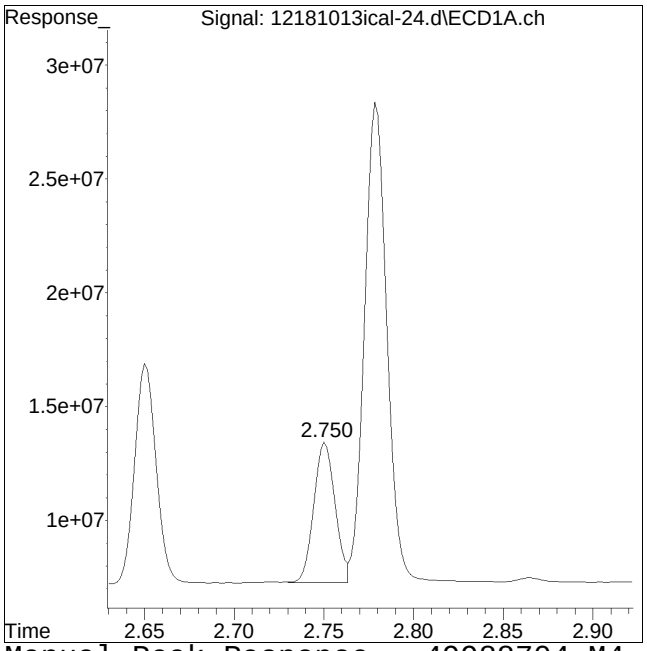
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-24.d
Date Inj'd : 10/13/2018 3:51 pm
Sample : il42154,42e,,8672

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:12 am

Compound #16: 1221-2



Original Peak Response = 249091509



Manual Peak Response = 49988704 M4

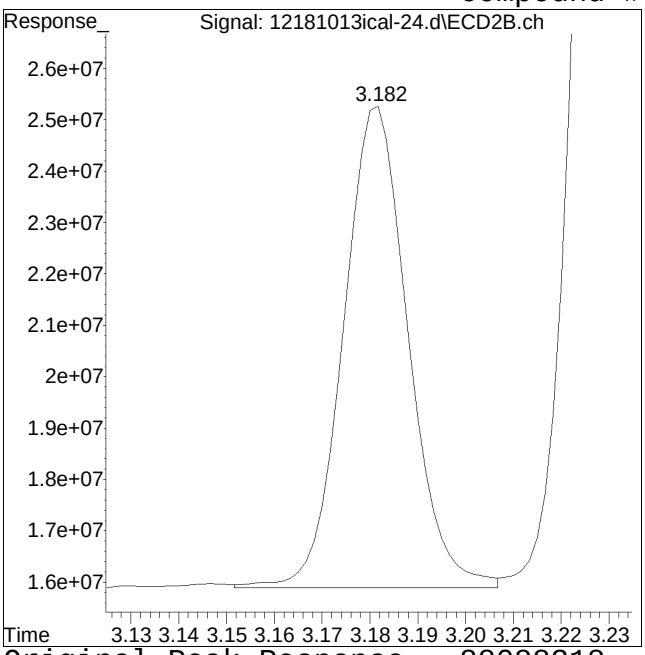
M4 = Poor automated baseline construction.

Manual Integration Report

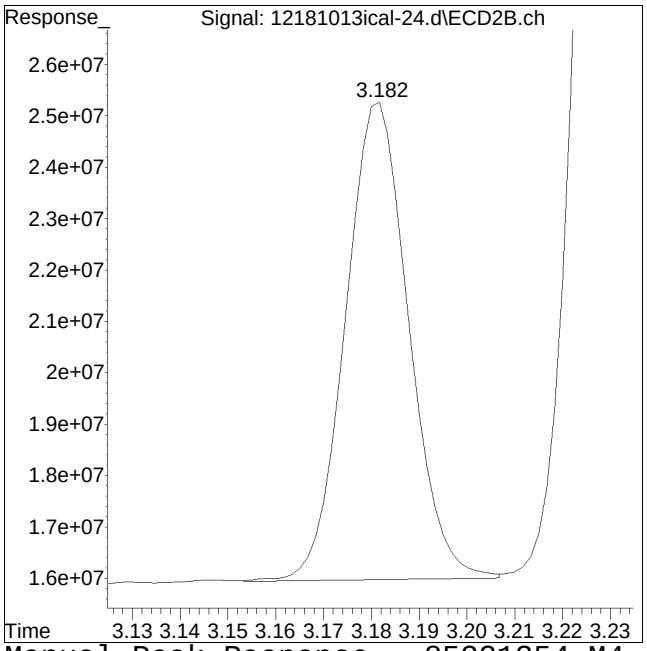
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-24.d
Date Inj'd : 10/13/2018 3:51 pm
Sample : il42154,42e,,8672

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:12 am

Compound #67: 1221-2 #2



Original Peak Response = 88088318



Manual Peak Response = 85231354 M4

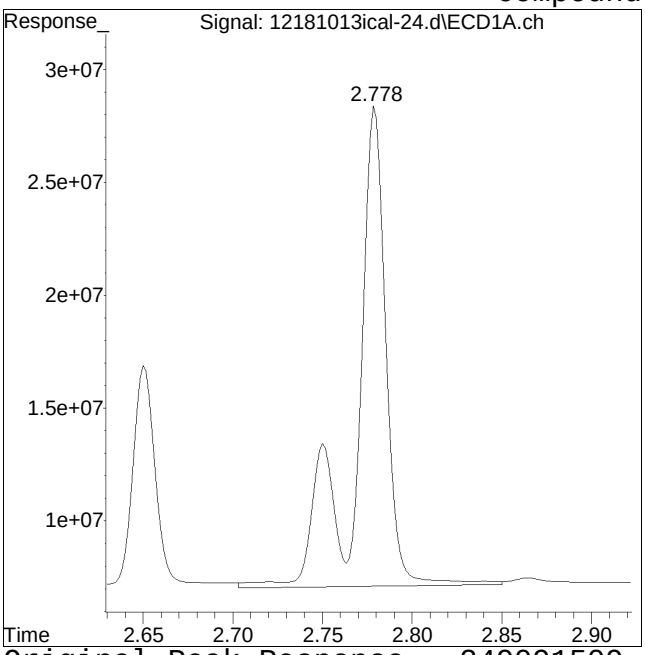
M4 = Poor automated baseline construction.

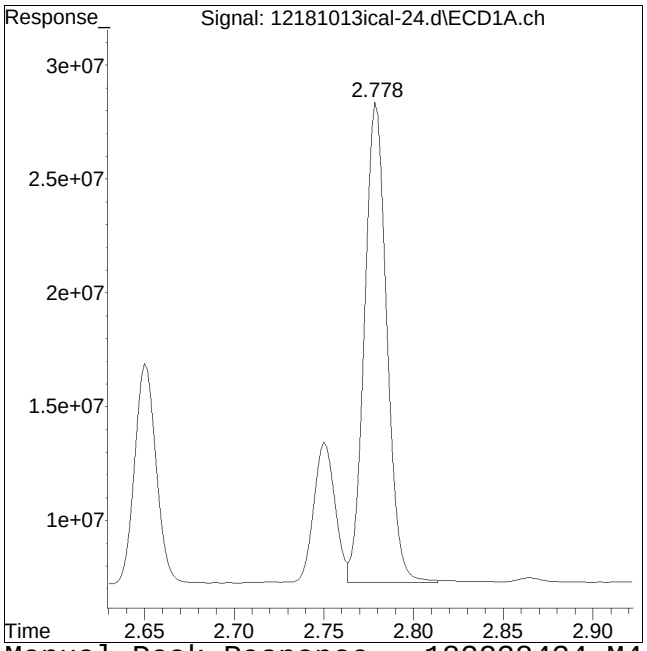
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-24.d
Date Inj'd : 10/13/2018 3:51 pm
Sample : il42154,42e,,8672

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:12 am

Compound #17: 1221-3





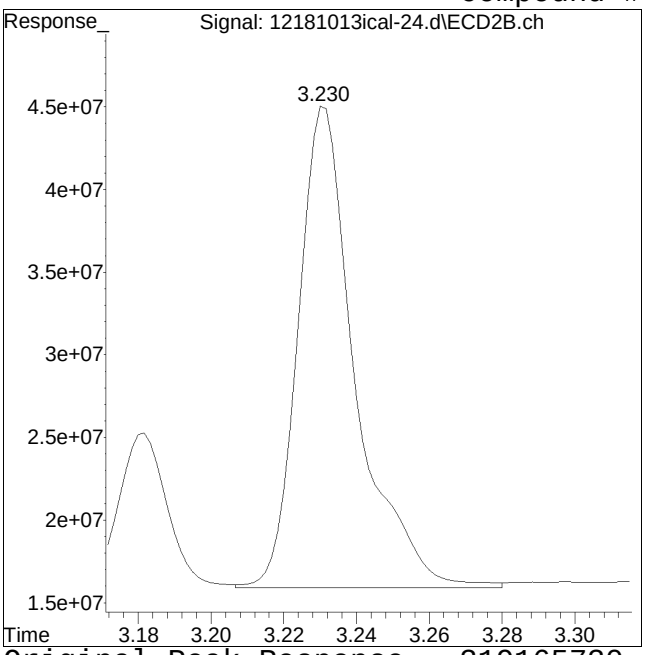
Original Peak Response = 249091509 Manual Peak Response = 182238434 M4
M4 = Poor automated baseline construction.

Manual Integration Report

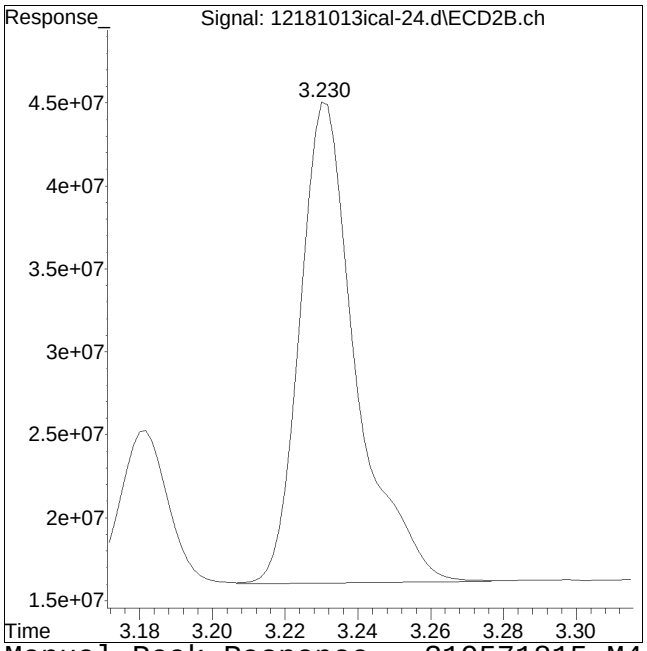
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-24.d
Date Inj'd : 10/13/2018 3:51 pm
Sample : il42154,42e,,8672

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:12 am

Compound #68: 1221-3 #2



Original Peak Response = 319165730



Manual Peak Response = 310571815 M4

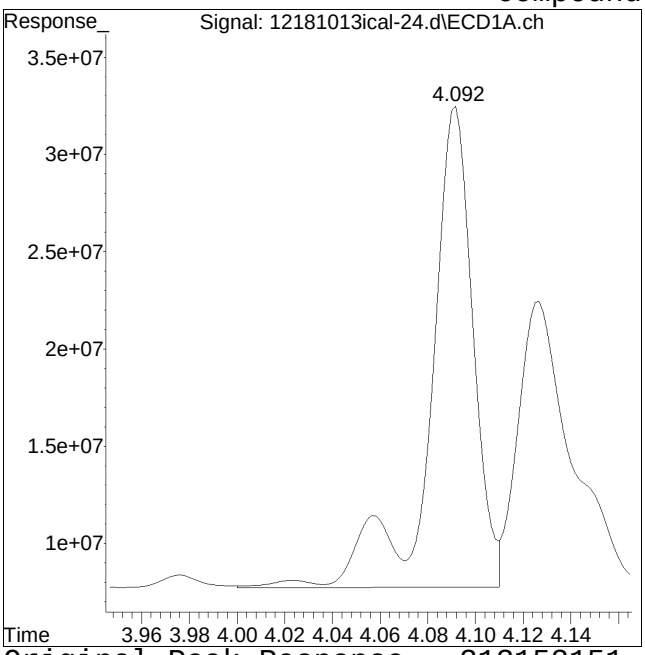
M4 = Poor automated baseline construction.

Manual Integration Report

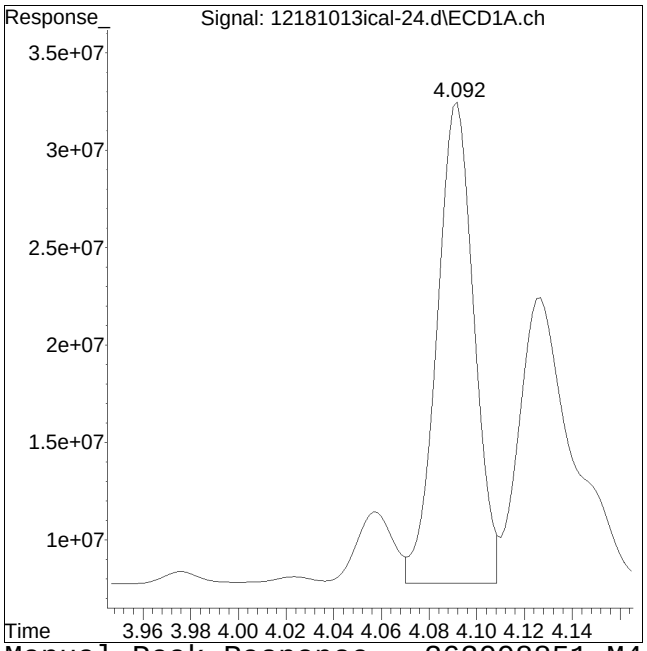
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-24.d
Date Inj'd : 10/13/2018 3:51 pm
Sample : il42154,42e,,8672

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:12 am

Compound #18: 1254-1



Original Peak Response = 313152151



Manual Peak Response = 263008851 M4

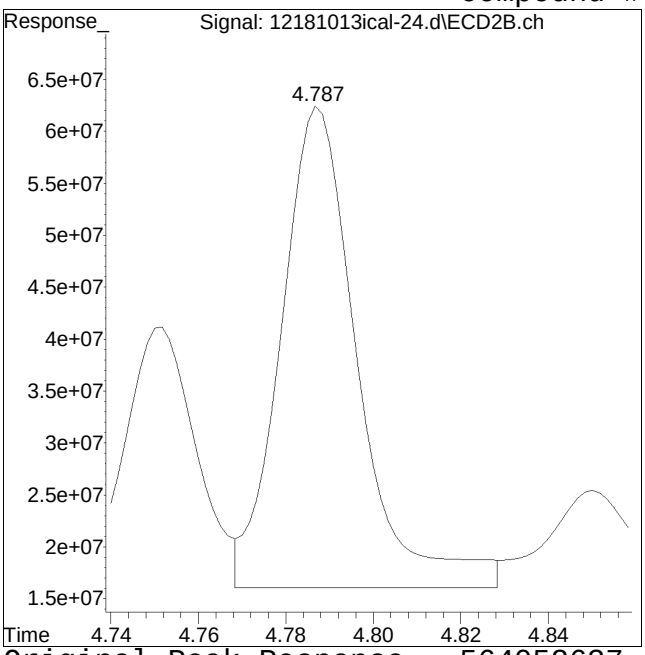
M4 = Poor automated baseline construction.

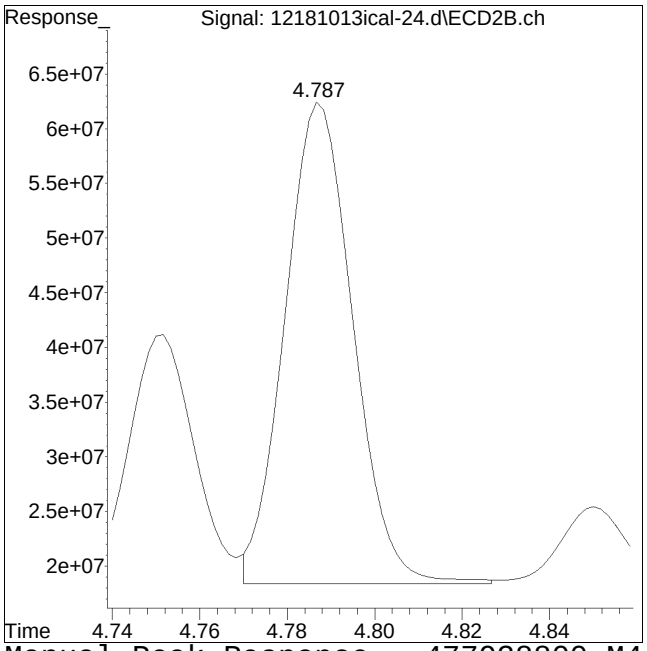
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-24.d
Date Inj'd : 10/13/2018 3:51 pm
Sample : il42154,42e,,8672

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:12 am

Compound #69: 1254-1 #2





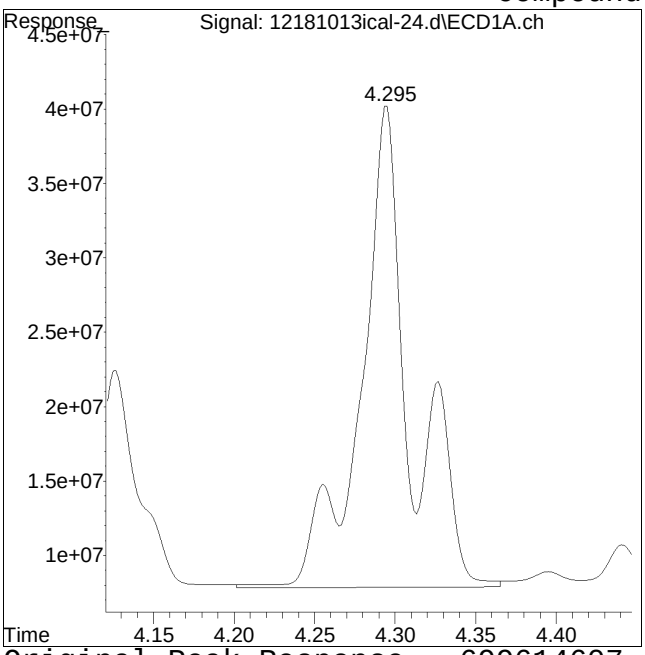
Original Peak Response = 564052637 Manual Peak Response = 477938800 M4
M4 = Poor automated baseline construction.

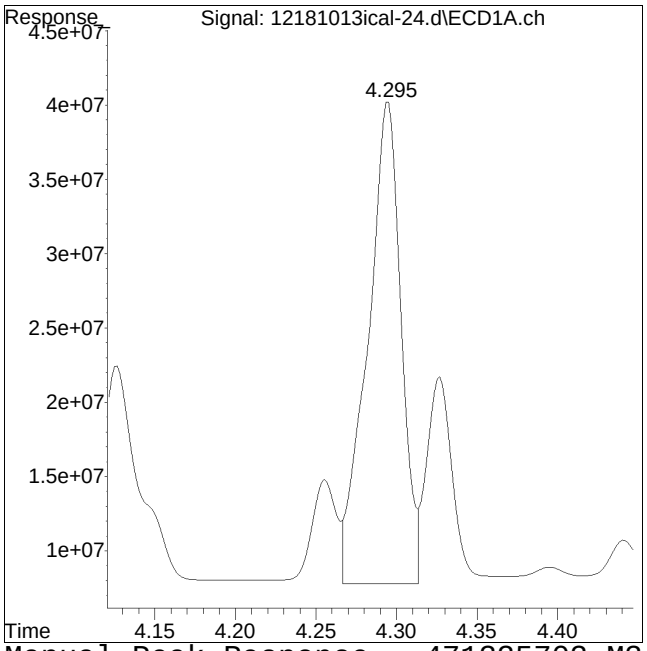
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-24.d
Date Inj'd : 10/13/2018 3:51 pm
Sample : il42154,42e,,8672

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:12 am

Compound #19: 1254-2



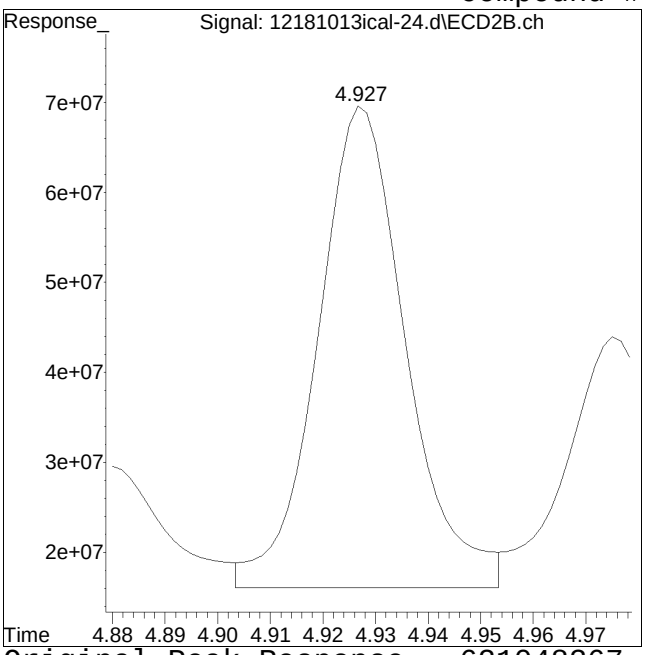


Original Peak Response = 699614607 Manual Peak Response = 471335703 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

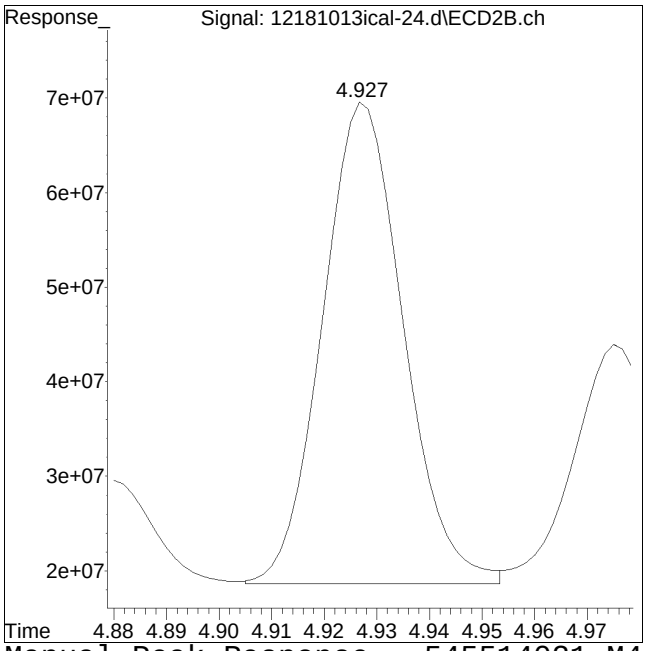
Manual Integration Report

Data Path	: I:\Pest12\181013ical\	QMethod	: P12_pcb_10-13-18_ugL_.m
Data File	: 12181013ical-24.d	Operator	: Pest12:kb
Date Inj'd	: 10/13/2018 3:51 pm	Instrument	: Pest 12
Sample	: il42154,42e,,8672	Quant Date	: 10/16/2018 9:12 am

Compound #70: 1254-2 #2



Original Peak Response = 621048367



Manual Peak Response = 545514021 M4

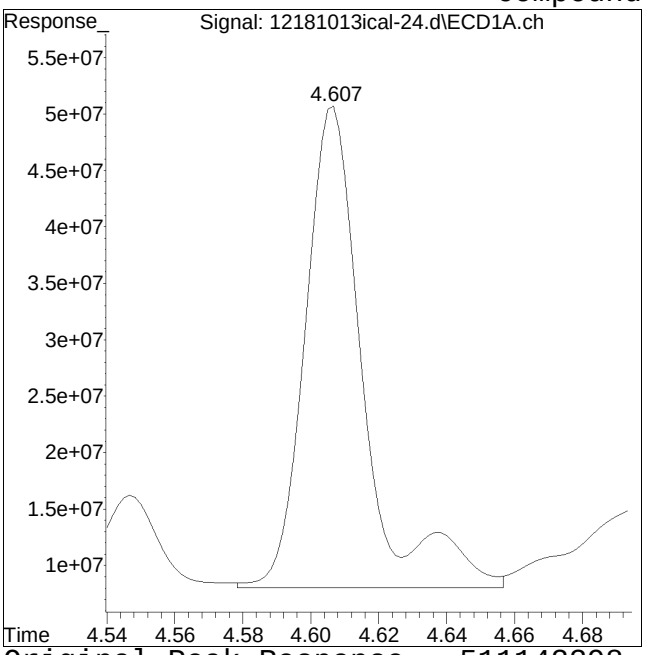
M4 = Poor automated baseline construction.

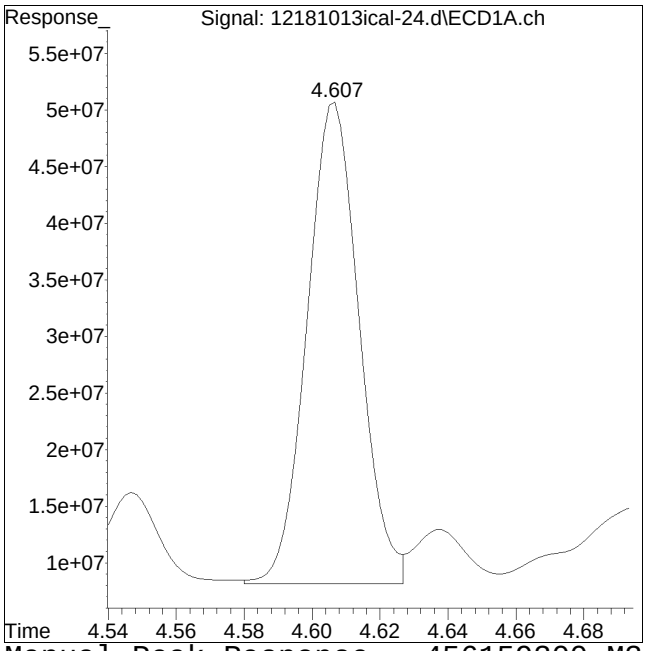
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-24.d
Date Inj'd : 10/13/2018 3:51 pm
Sample : il42154,42e,,8672

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:12 am

Compound #20: 1254-3





Original Peak Response = 511142398 Manual Peak Response = 456159300 M3

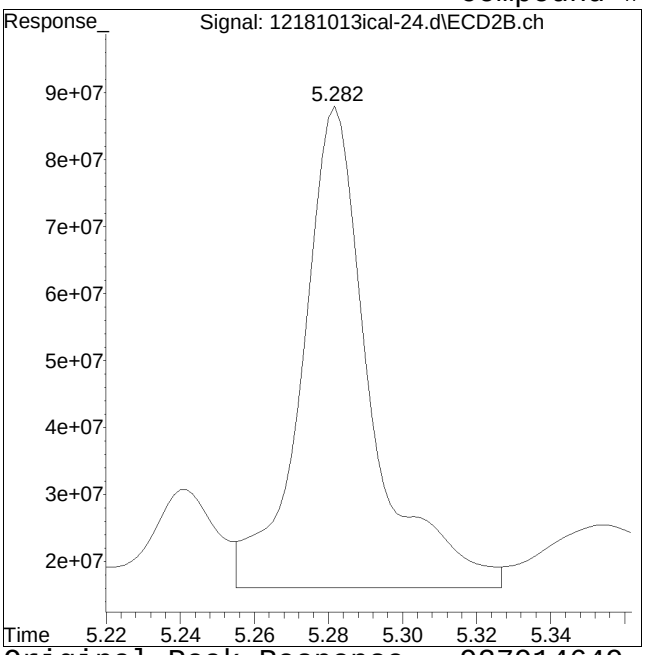
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

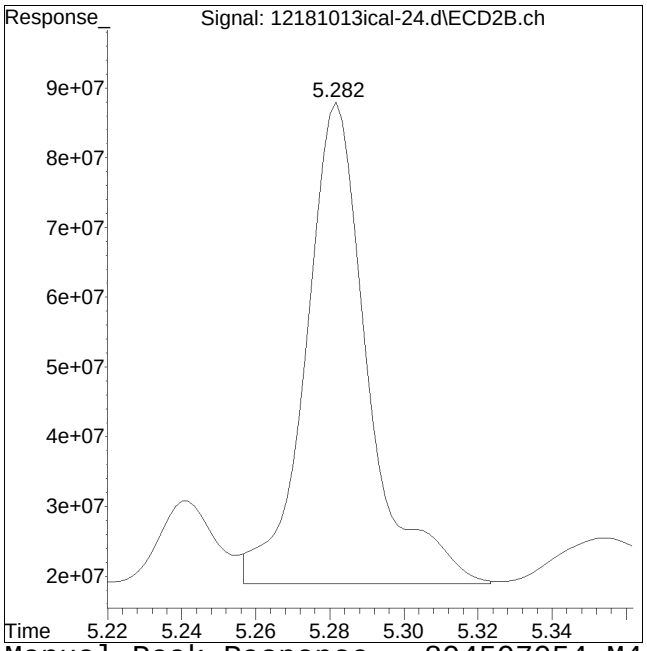
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-24.d
Date Inj'd : 10/13/2018 3:51 pm
Sample : il42154,42e,,8672

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:12 am

Compound #71: 1254-3 #2





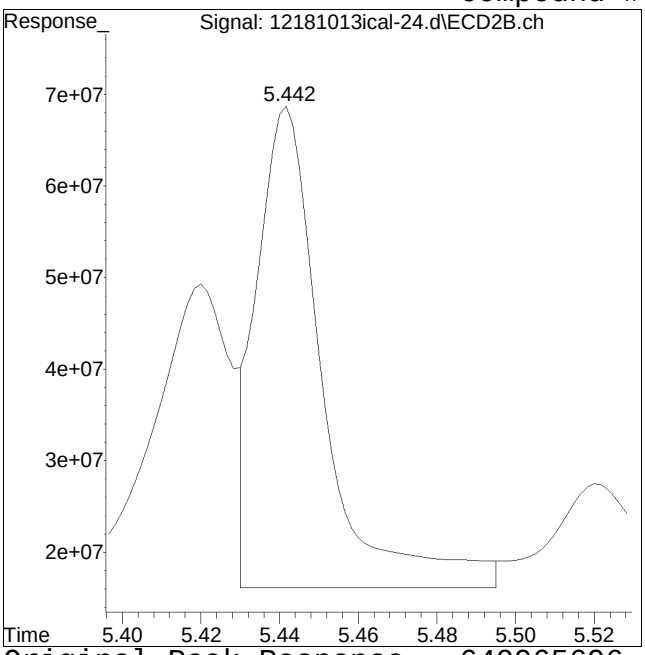
Original Peak Response = 927914649 Manual Peak Response = 804507054 M4
M4 = Poor automated baseline construction.

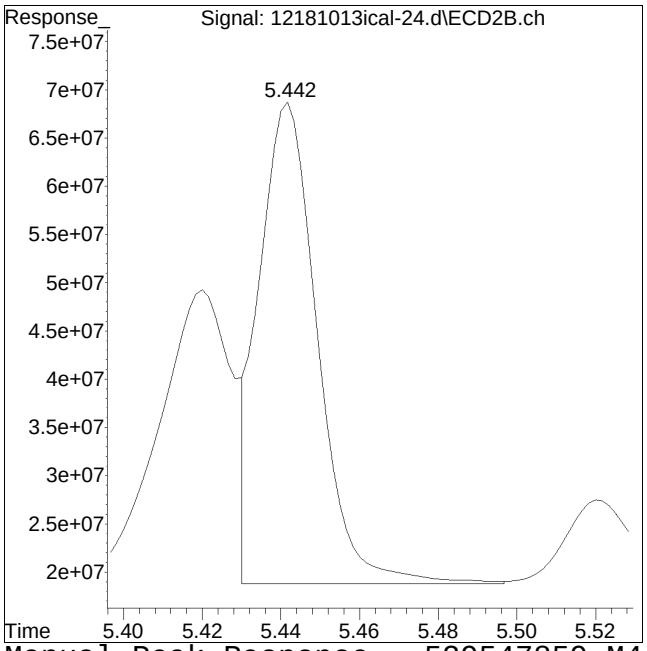
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-24.d
Date Inj'd : 10/13/2018 3:51 pm
Sample : il42154,42e,,8672

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:12 am

Compound #72: 1254-4 #2





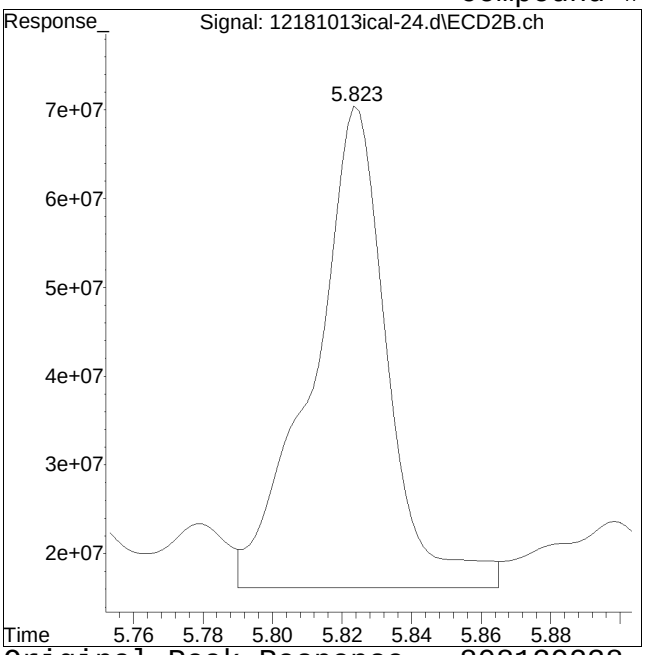
Original Peak Response = 649965696 Manual Peak Response = 529547859 M4
M4 = Poor automated baseline construction.

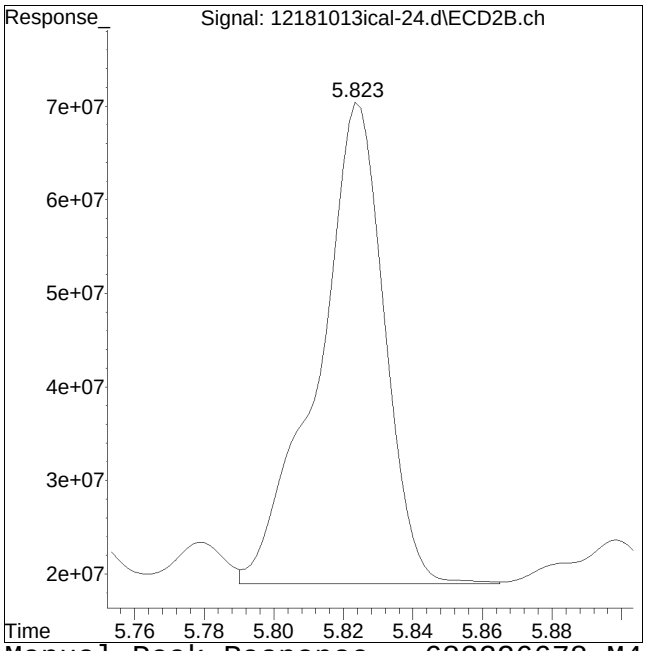
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-24.d
Date Inj'd : 10/13/2018 3:51 pm
Sample : il42154,42e,,8672

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:12 am

Compound #73: 1254-5 #2





Original Peak Response = 808139238 Manual Peak Response = 683226678 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-25.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 4:03 pm
Operator : Pest12:kb
Sample : il52154,42e,,8671
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 09:23:12 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 09:17:02 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	2.069	2.224	777.6E6	1203.6E6	250.000M4	250.000M4
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-1	2.650	3.071	153.5E6	262.6E6	4629.288M4	4708.590
16) l3	1221-2	2.750	3.181	93800410	164.5E6	4622.825M4	4711.434M4

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-25.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 4:03 pm
Operator : Pest12:kb
Sample : il52154,42e,,8671
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 09:23:12 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 09:17:02 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3	1221-3	2.779	3.231	337.9E6	594.1E6	4568.491M4	4670.456M4
Sum	1221-1			585.2E6	1021.2E6	13820.604	14090.480
Average	1221-1					4606.868	4696.827
18) l4	1254-1	4.091	4.787	510.3E6	921.2E6	4780.016M4	4705.855M4
19) l4	1254-2	4.295	4.927	888.3E6	1051.6E6	4642.904M4	4706.443M4
20) l4	1254-3	4.606	5.282	879.2E6	1585.6E6	4748.190M4	4811.879M4
21) l4	1254-4	4.817	5.441	695.1E6	1087.2E6	4712.917	5012.562M4
22) l4	1254-5	5.160	5.824	920.4E6	1358.5E6	4720.242	4854.798M4
Sum	1254-1			3893.3E6	6004.0E6	NoCal	NoCal D
Average	1254-1					4720.854	4818.308
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-25.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 4:03 pm
Operator : Pest12:kb
Sample : il52154,42e,,8671
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 09:23:12 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 09:17:02 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-25.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 4:03 pm
Operator : Pest12:kb
Sample : il52154,42e,,8671
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 09:23:12 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 09:17:02 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

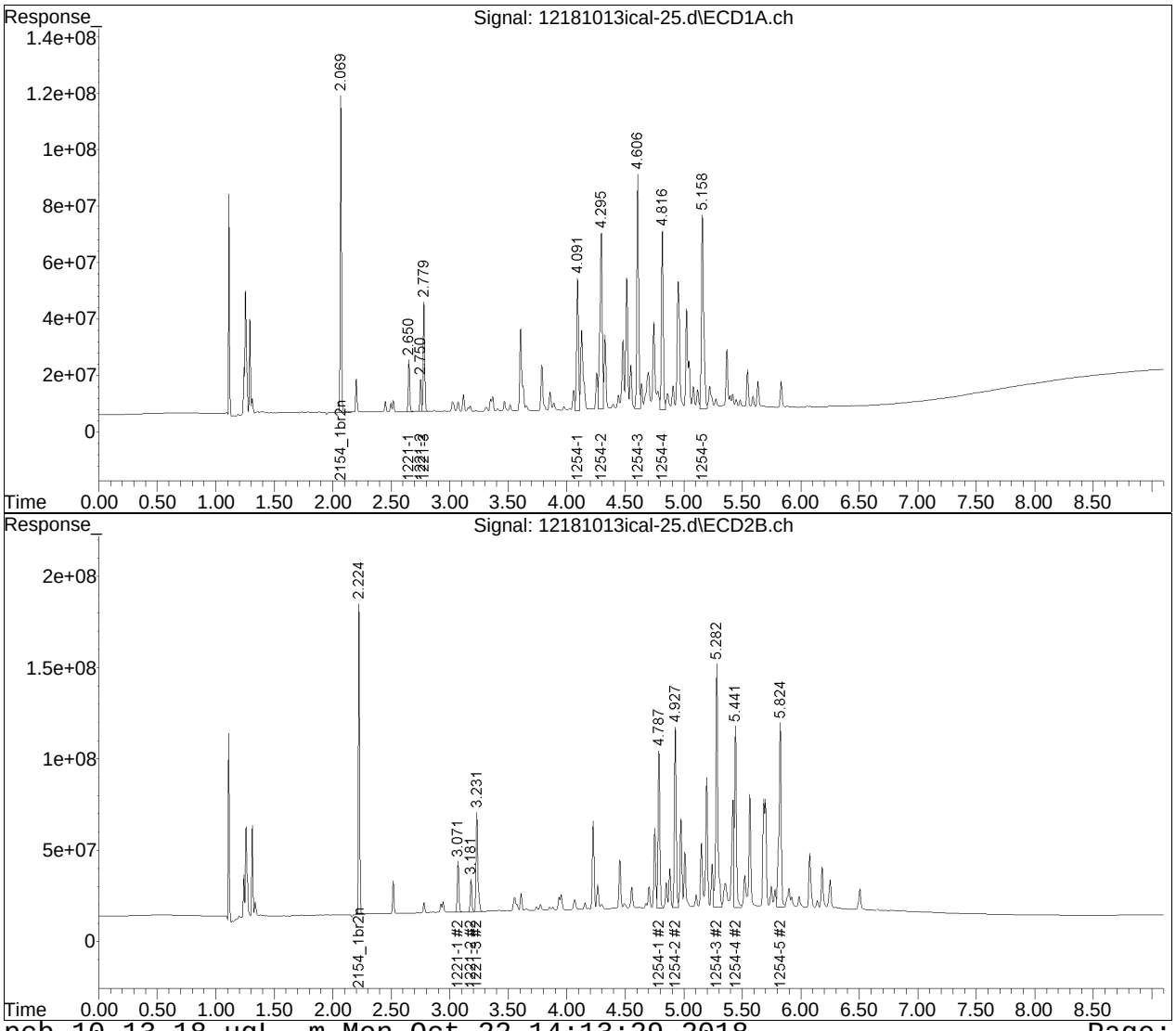
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-25.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 4:03 pm
Operator : Pest12:kb
Sample : il52154,42e,,8671
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 09:23:12 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 09:17:02 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

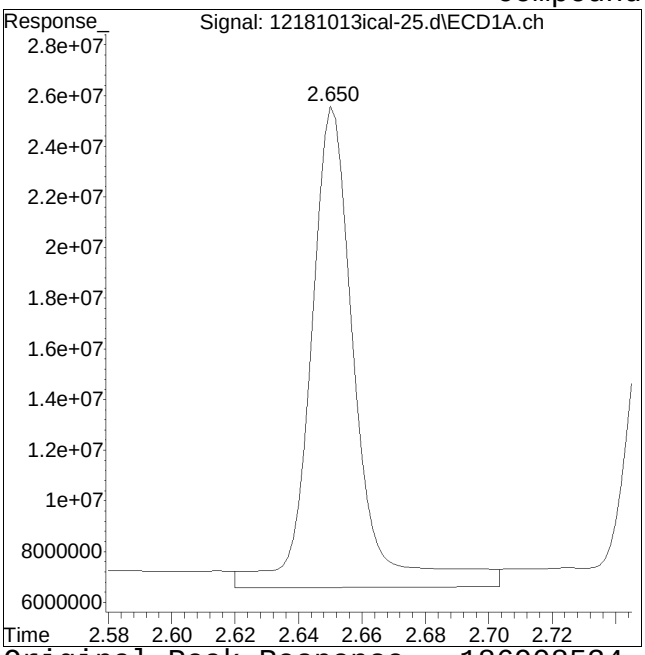


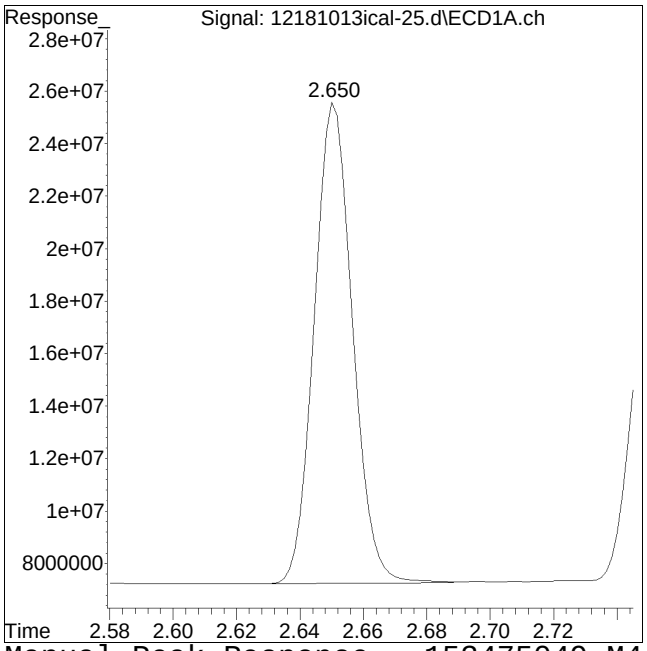
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-25.d
Date Inj'd : 10/13/2018 4:03 pm
Sample : il52154,42e,,8671

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:17 am

Compound #15: 1221-1





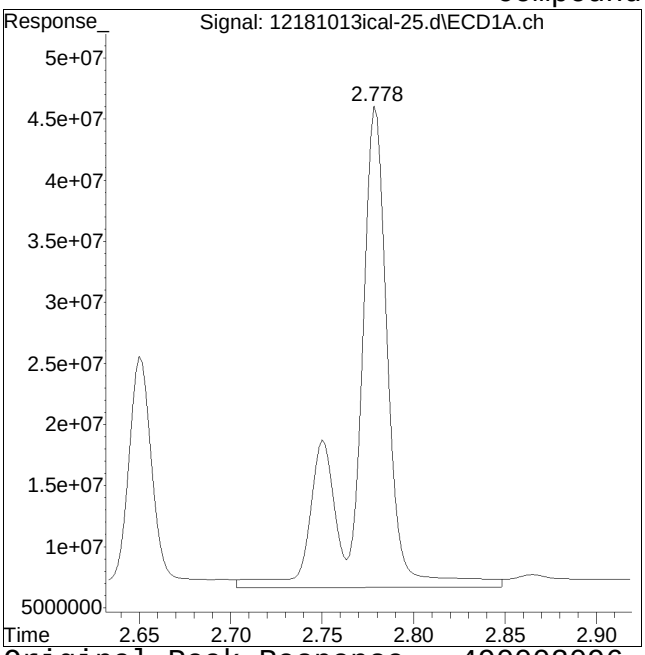
Original Peak Response = 186908534 Manual Peak Response = 153475049 M4
M4 = Poor automated baseline construction.

Manual Integration Report

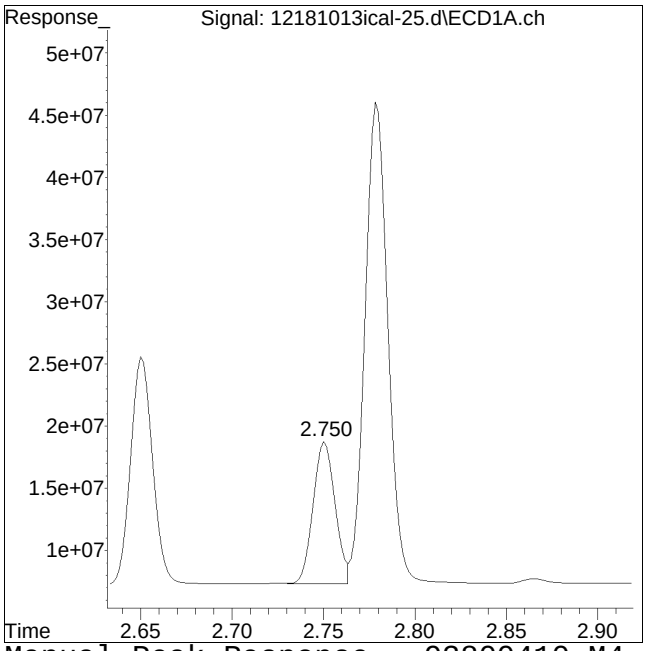
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-25.d
Date Inj'd : 10/13/2018 4:03 pm
Sample : il52154,42e,,8671

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:17 am

Compound #16: 1221-2



Original Peak Response = 490002096



Manual Peak Response = 93800410 M4

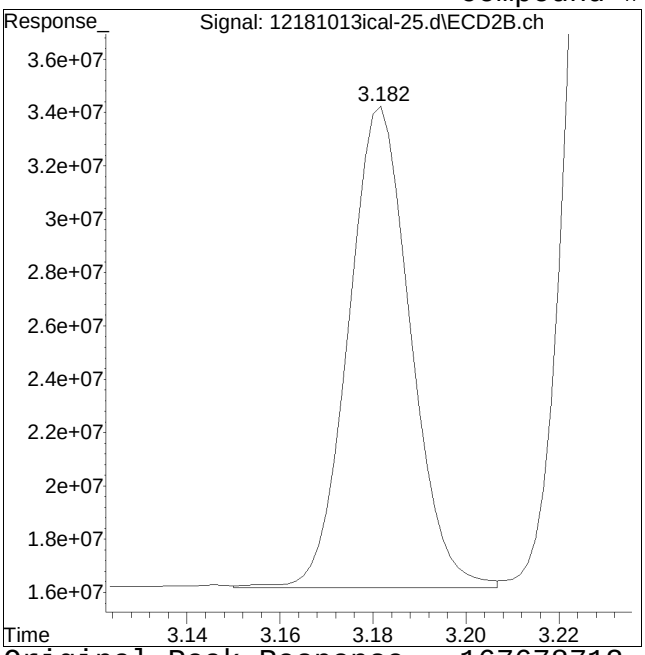
M4 = Poor automated baseline construction.

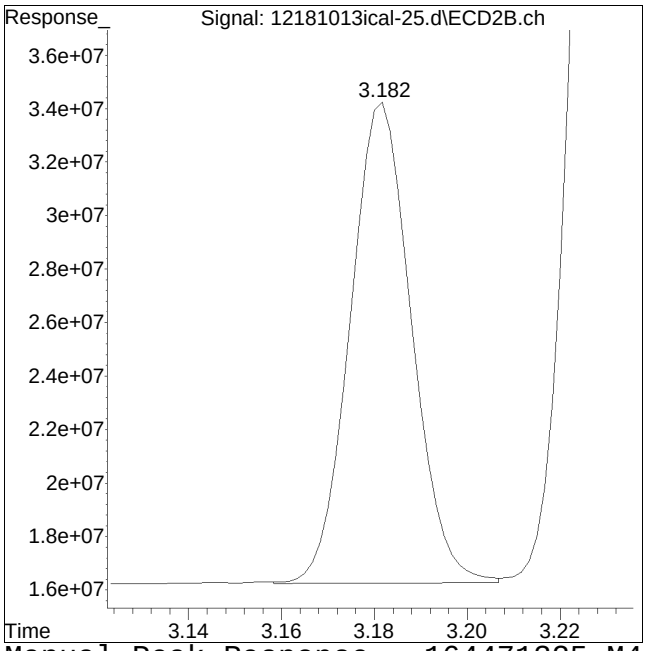
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-25.d
Date Inj'd : 10/13/2018 4:03 pm
Sample : il52154,42e,,8671

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:17 am

Compound #67: 1221-2 #2





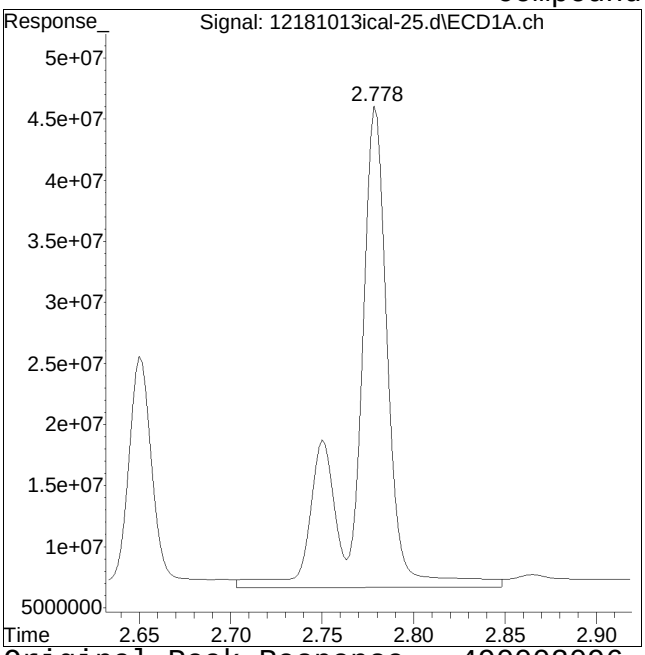
Original Peak Response = 167678712 Manual Peak Response = 164471325 M4
M4 = Poor automated baseline construction.

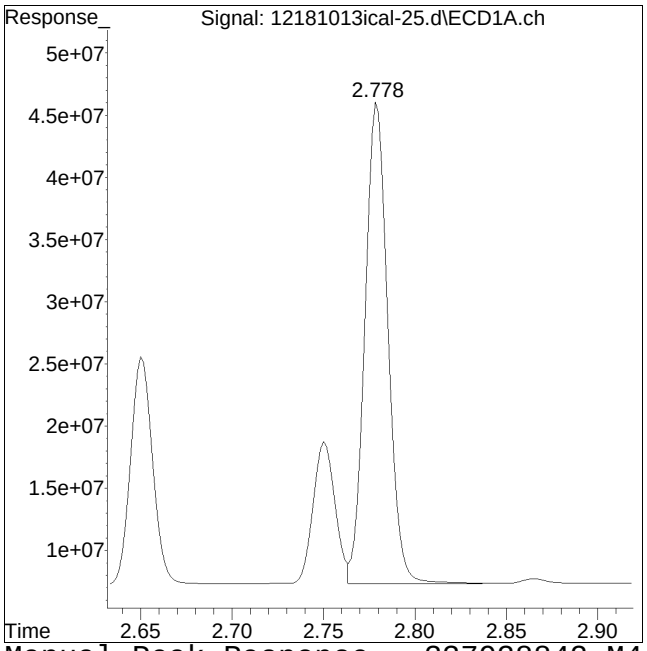
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-25.d
Date Inj'd : 10/13/2018 4:03 pm
Sample : il52154,42e,,8671

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:17 am

Compound #17: 1221-3





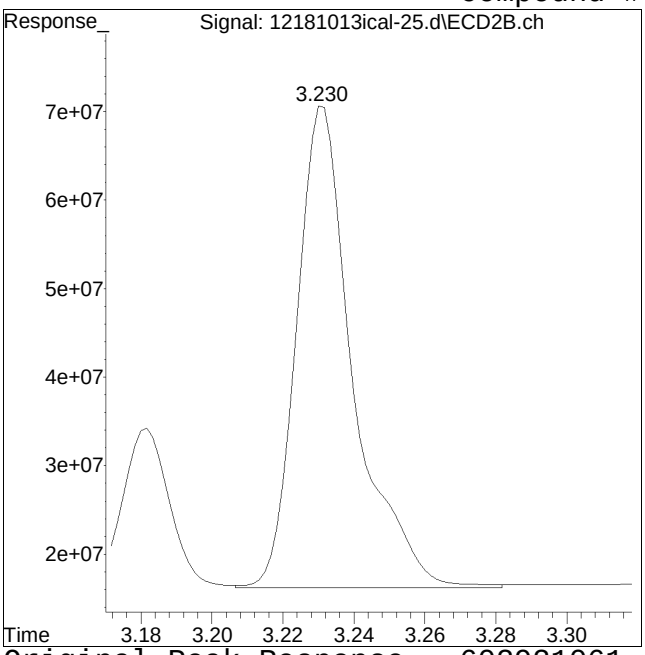
Original Peak Response = 490002096 Manual Peak Response = 337938842 M4
M4 = Poor automated baseline construction.

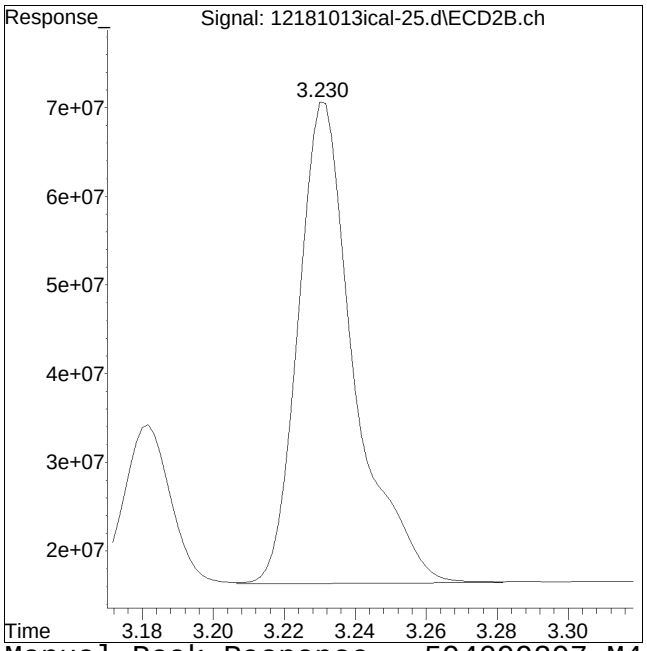
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-25.d
Date Inj'd : 10/13/2018 4:03 pm
Sample : il52154,42e,,8671

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:17 am

Compound #68: 1221-3 #2





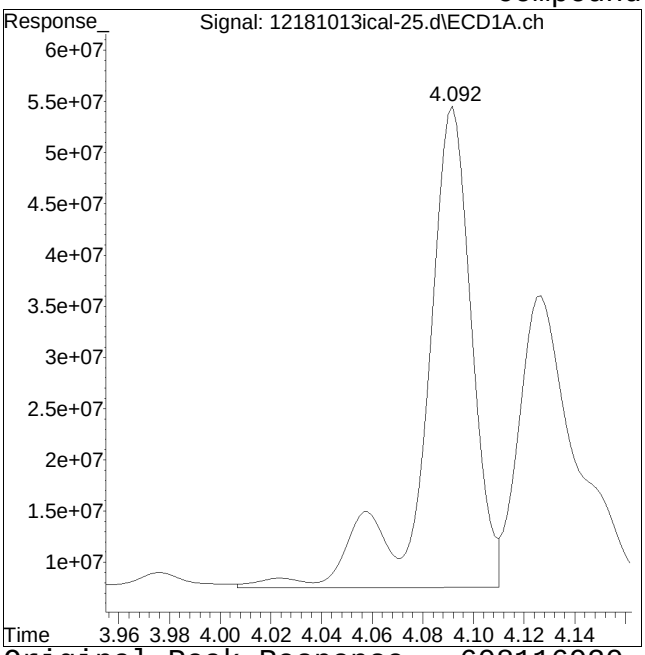
Original Peak Response = 602921061 Manual Peak Response = 594099297 M4
M4 = Poor automated baseline construction.

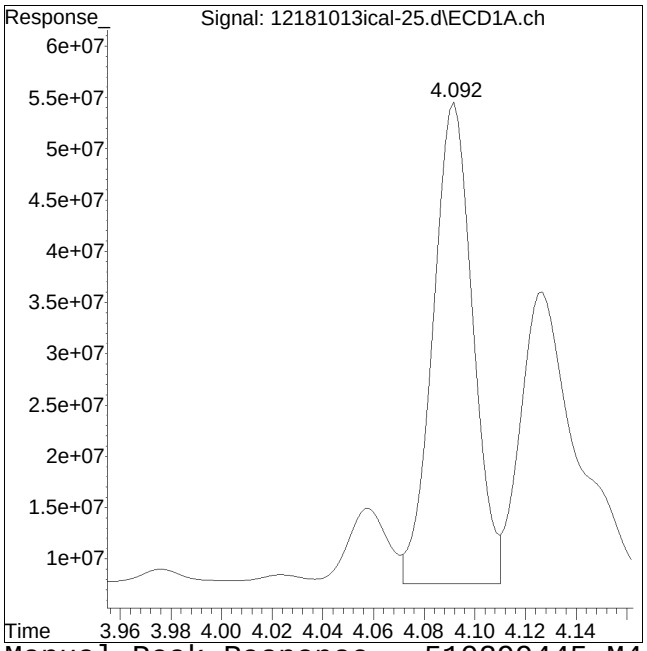
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-25.d
Date Inj'd : 10/13/2018 4:03 pm
Sample : il52154,42e,,8671

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:17 am

Compound #18: 1254-1





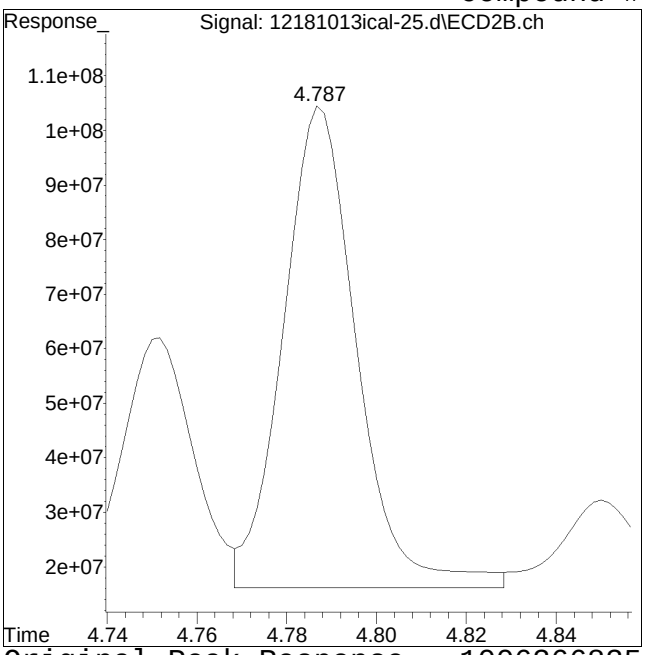
Original Peak Response = 608116920 Manual Peak Response = 510299445 M4
M4 = Poor automated baseline construction.

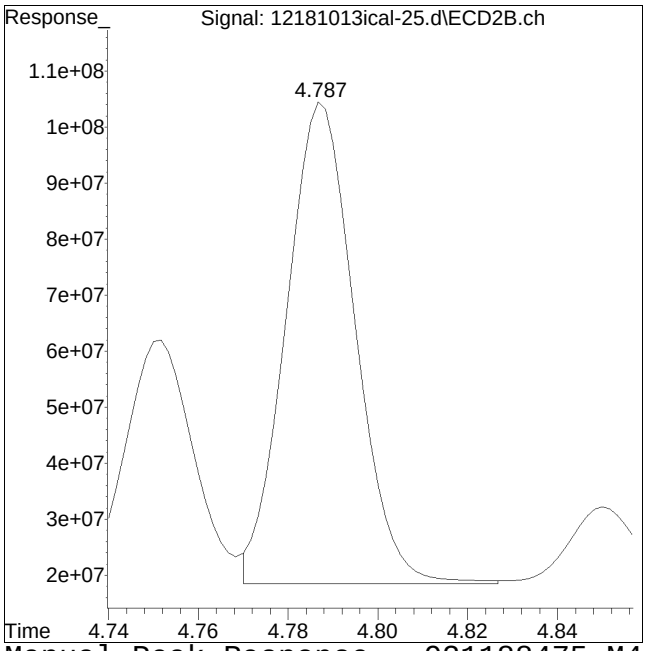
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-25.d
Date Inj'd : 10/13/2018 4:03 pm
Sample : il52154,42e,,8671

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:17 am

Compound #69: 1254-1 #2





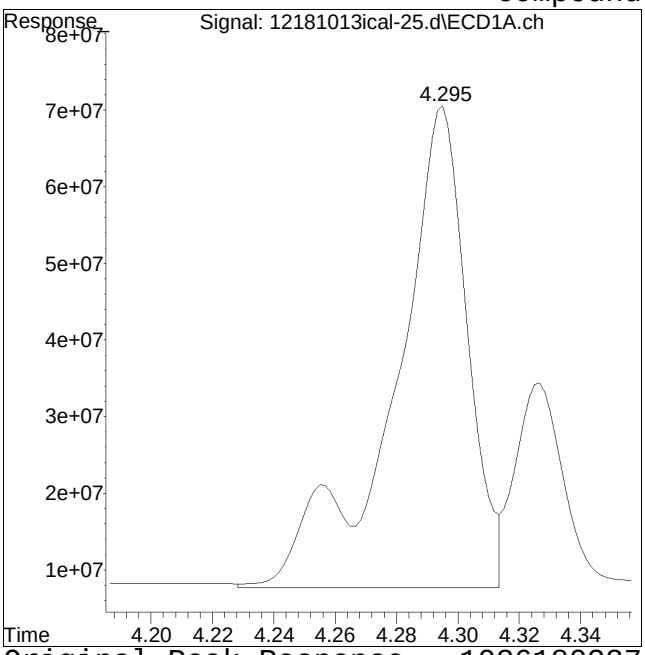
Original Peak Response = 1006366835 Manual Peak Response = 921188475 M4
M4 = Poor automated baseline construction.

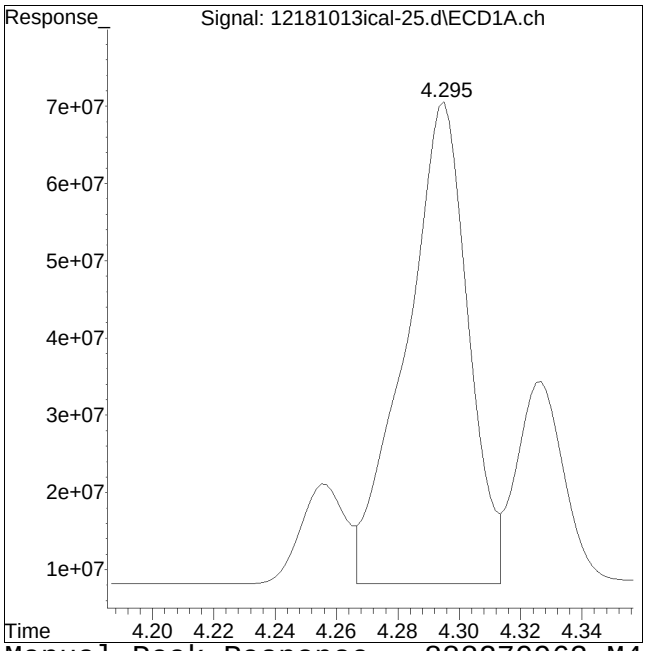
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-25.d
Date Inj'd : 10/13/2018 4:03 pm
Sample : il52154,42e,,8671

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:17 am

Compound #19: 1254-2





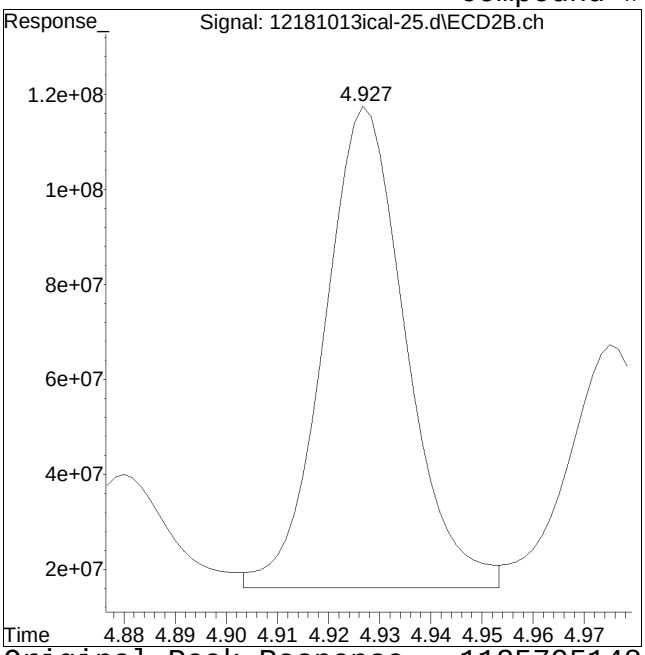
Original Peak Response = 1036180337 Manual Peak Response = 888270963 M4
M4 = Poor automated baseline construction.

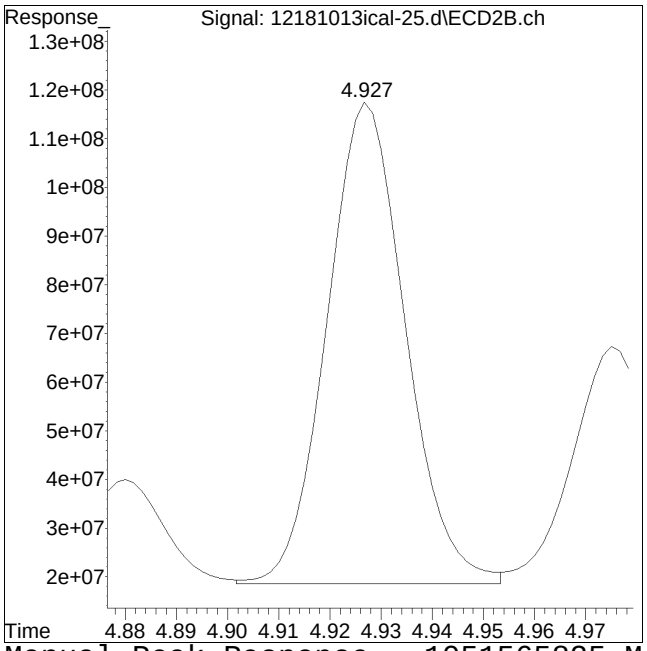
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-25.d
Date Inj'd : 10/13/2018 4:03 pm
Sample : il52154,42e,,8671

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:17 am

Compound #70: 1254-2 #2





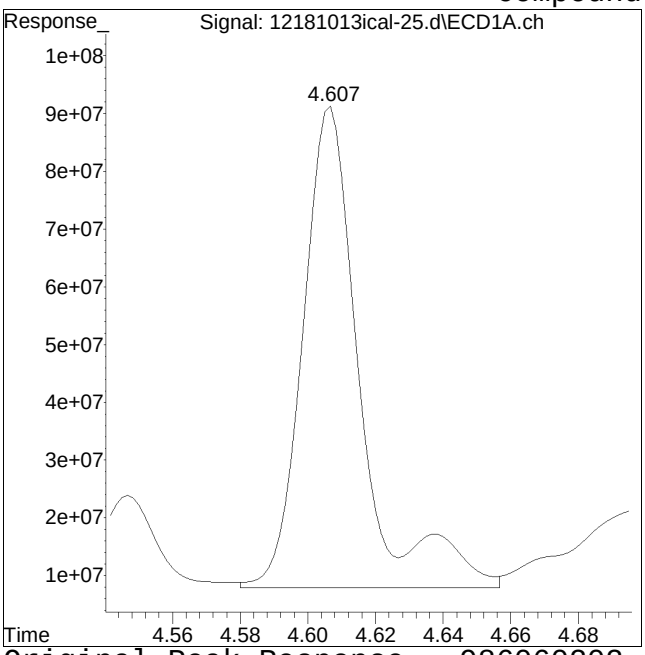
Original Peak Response = 1125795148 Manual Peak Response = 1051565825 M4
M4 = Poor automated baseline construction.

Manual Integration Report

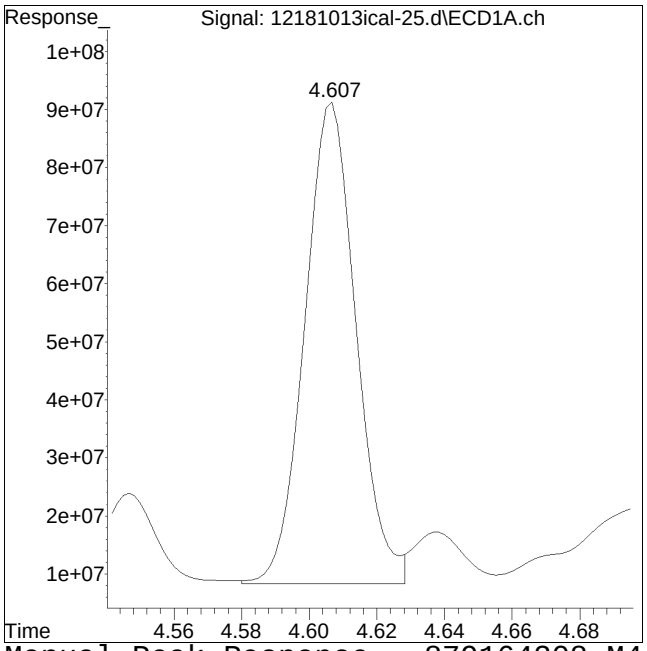
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-25.d
Date Inj'd : 10/13/2018 4:03 pm
Sample : il52154,42e,,8671

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:17 am

Compound #20: 1254-3



Original Peak Response = 986060202



Manual Peak Response = 879164208 M4

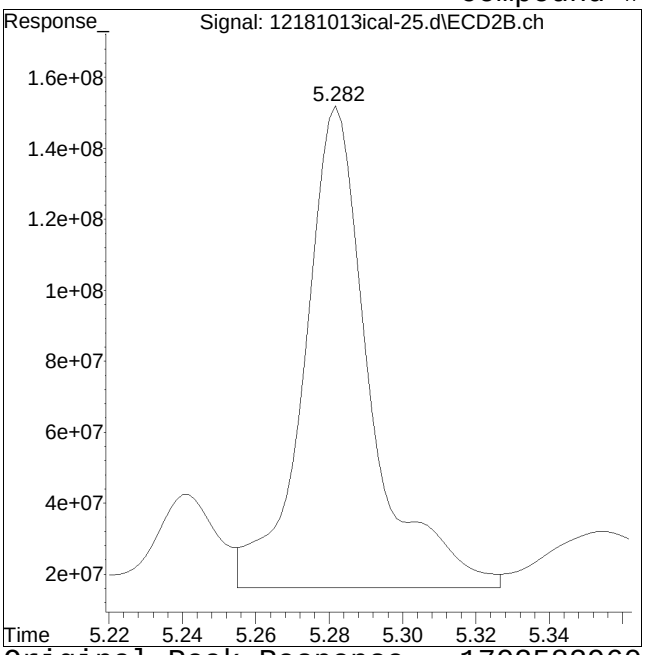
M4 = Poor automated baseline construction.

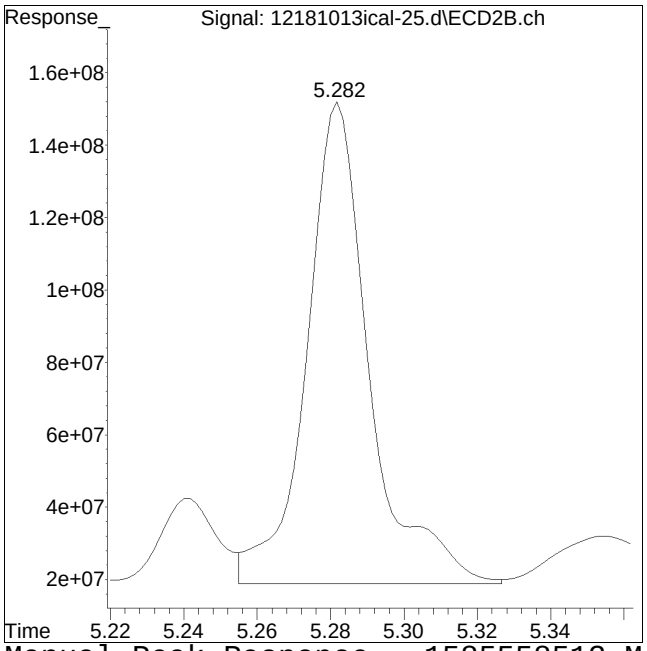
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-25.d
Date Inj'd : 10/13/2018 4:03 pm
Sample : il52154,42e,,8671

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:17 am

Compound #71: 1254-3 #2





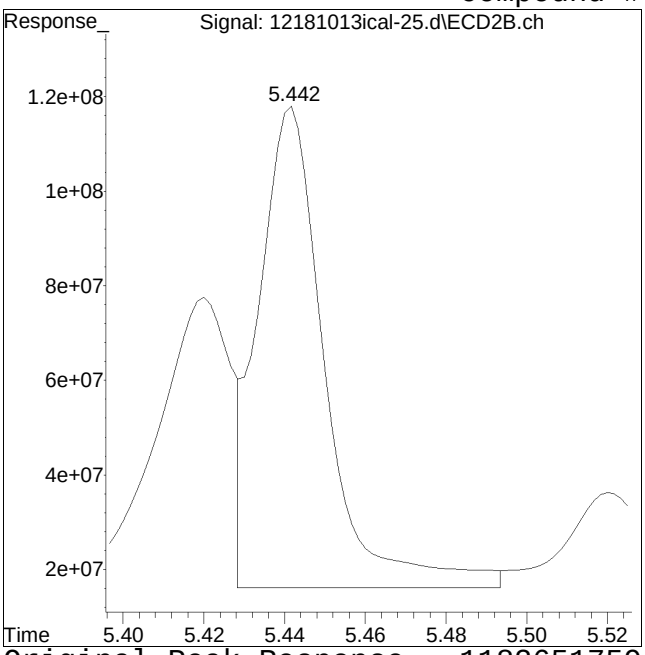
Original Peak Response = 1702583960 Manual Peak Response = 1585558513 M4
M4 = Poor automated baseline construction.

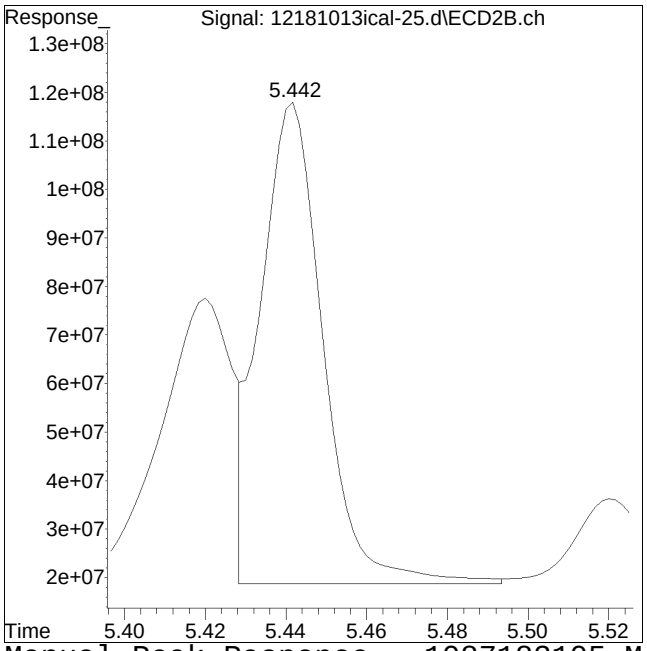
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-25.d
Date Inj'd : 10/13/2018 4:03 pm
Sample : il52154,42e,,8671

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:17 am

Compound #72: 1254-4 #2





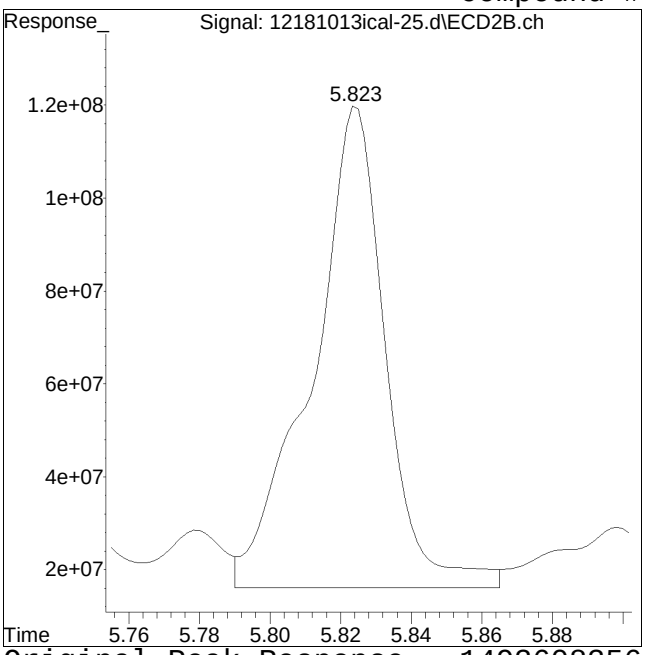
Original Peak Response = 1182651759 Manual Peak Response = 1087183105 M4
M4 = Poor automated baseline construction.

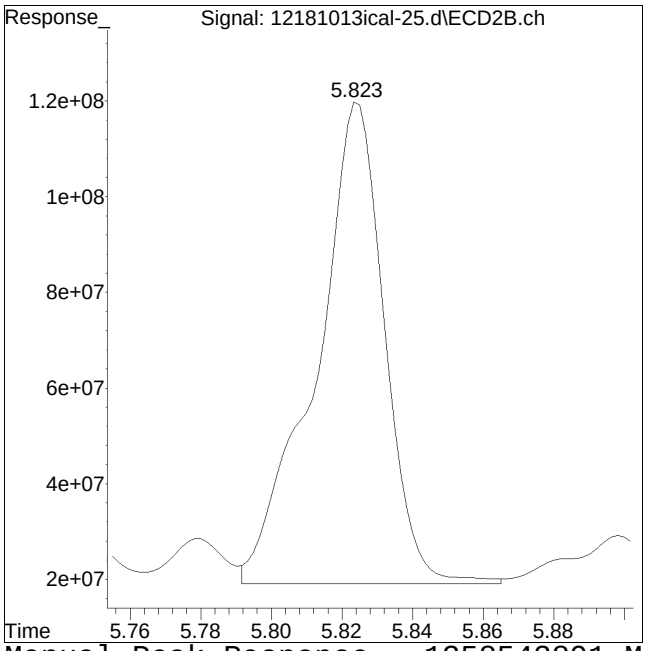
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-25.d
Date Inj'd : 10/13/2018 4:03 pm
Sample : il52154,42e,,8671

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:17 am

Compound #73: 1254-5 #2





Original Peak Response = 1493608356 Manual Peak Response = 1358543891 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-26.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 4:15 pm
Operator : Pest12:kb
Sample : il62154,42e,,8670
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 09:26:53 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 09:23:20 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
14) i	2154_1br2nb	2.069	2.224	830.9E6	1248.4E6	250.000M4	250.000M4
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
3) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
15) l3	1221-1	2.651	3.070	304.2E6	503.8E6	8916.100	8971.689M4
16) l3	1221-2	2.751	3.181	184.7E6	311.5E6	8853.886	8859.520M4

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-26.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 4:15 pm
Operator : Pest12:kb
Sample : il62154,42e,,8670
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 09:26:53 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 09:23:20 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3	1221-3	2.780	3.231	653.7E6	1110.2E6	8641.815	8700.978M4
Sum	1221-1			1142.6E6	1925.5E6	26411.800	26532.187
Average	1221-1					8803.933	8844.062
18) l4	1254-1	4.091	4.787	1019.7E6	1794.8E6	9138.755M3	9107.330M4
19) l4	1254-2	4.294	4.927	1768.7E6	2027.5E6	8971.403M3	9013.197M4
20) l4	1254-3	4.606	5.281	1751.7E6	3065.4E6	9081.332M3	9140.877M4
21) l4	1254-4	4.817	5.441	1390.4E6	1996.2E6	9082.791	8862.363M4
22) l4	1254-5	5.160	5.824	1854.3E6	2646.3E6	9154.497	9251.546M4
Sum	1254-1			7784.8E6	11530.1E6	NoCal	NoCal D
Average	1254-1					9085.756	9075.063
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-26.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 4:15 pm
Operator : Pest12:kb
Sample : il62154,42e,,8670
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 09:26:53 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 09:23:20 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

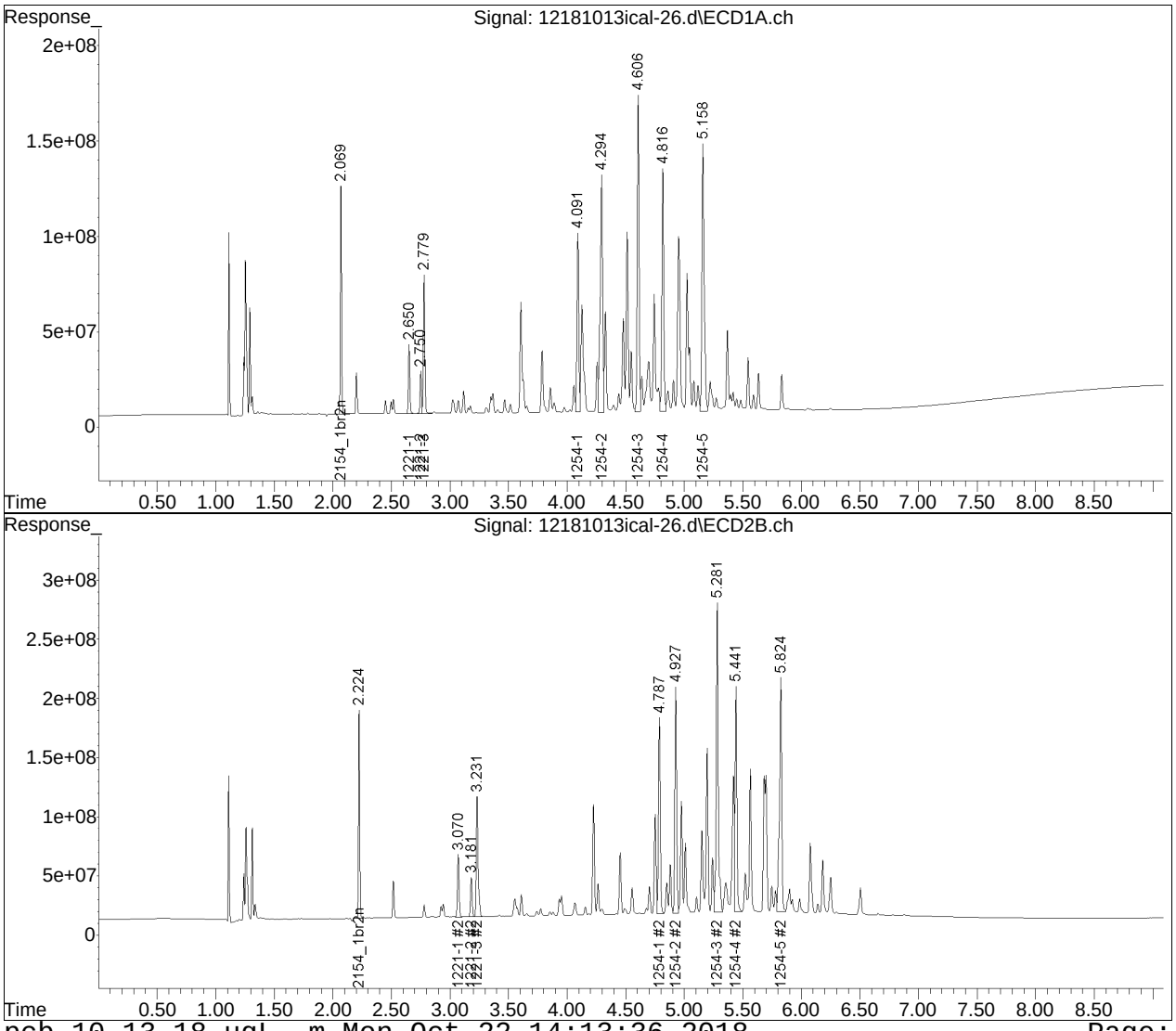
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-26.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 4:15 pm
Operator : Pest12:kb
Sample : il62154,42e,,8670
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 09:26:53 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 09:23:20 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

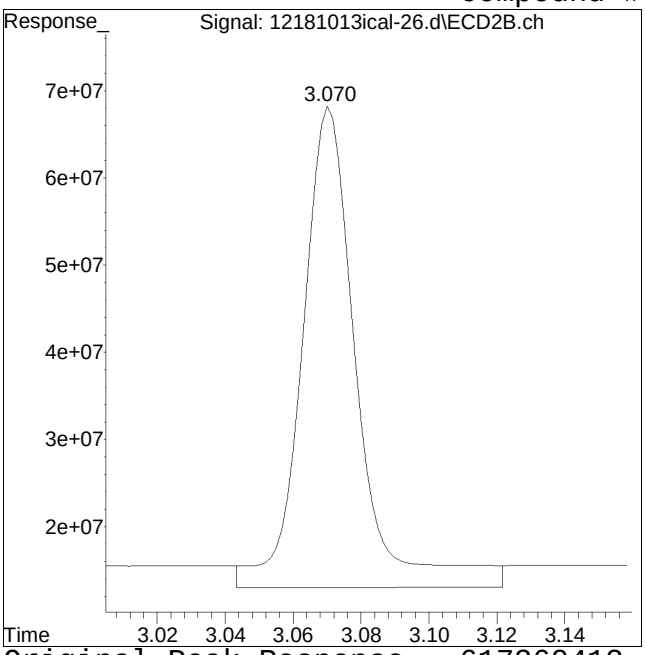


Manual Integration Report

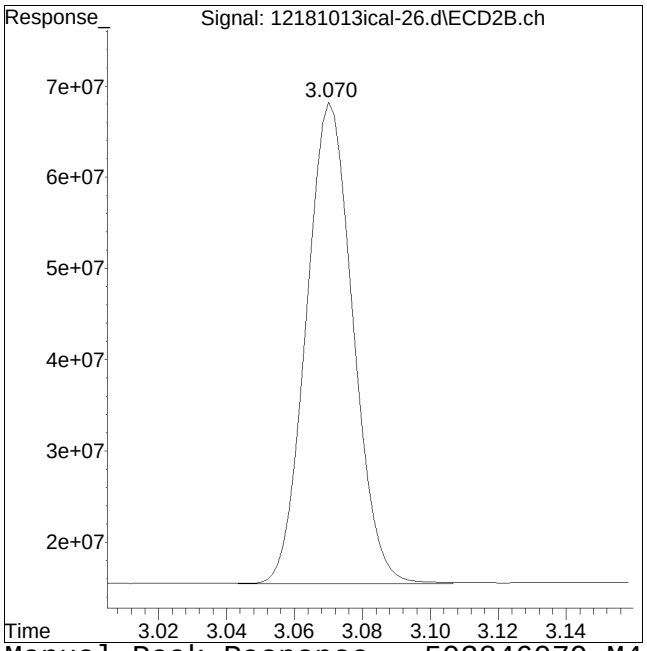
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-26.d
Date Inj'd : 10/13/2018 4:15 pm
Sample : il62154,42e,,8670

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:23 am

Compound #66: 1221-1 #2



Original Peak Response = 617360412



Manual Peak Response = 503846079 M4

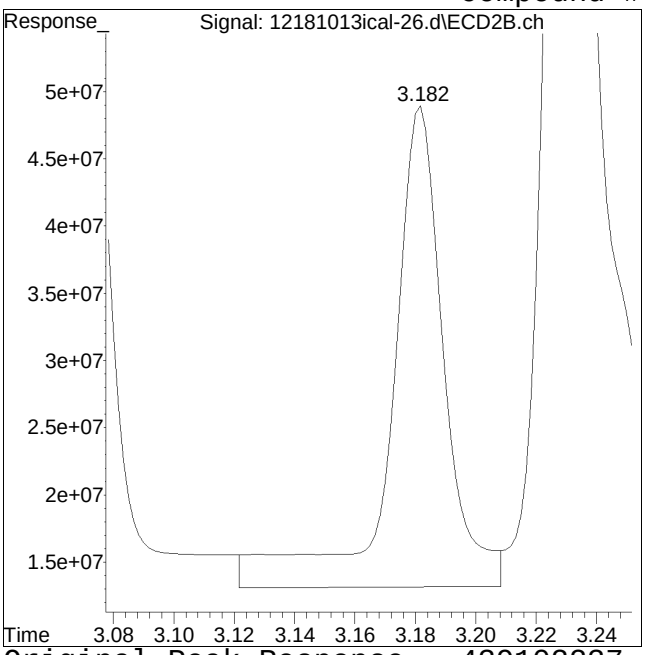
M4 = Poor automated baseline construction.

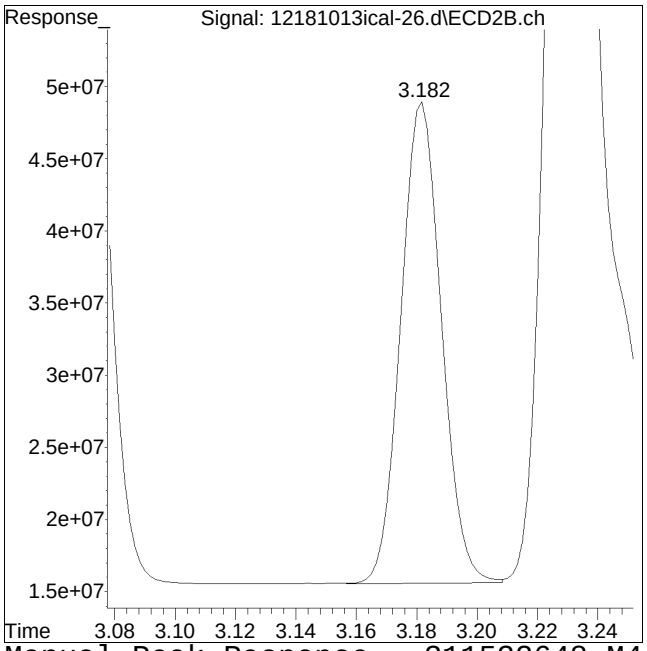
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-26.d
Date Inj'd : 10/13/2018 4:15 pm
Sample : il62154,42e,,8670

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:23 am

Compound #67: 1221-2 #2





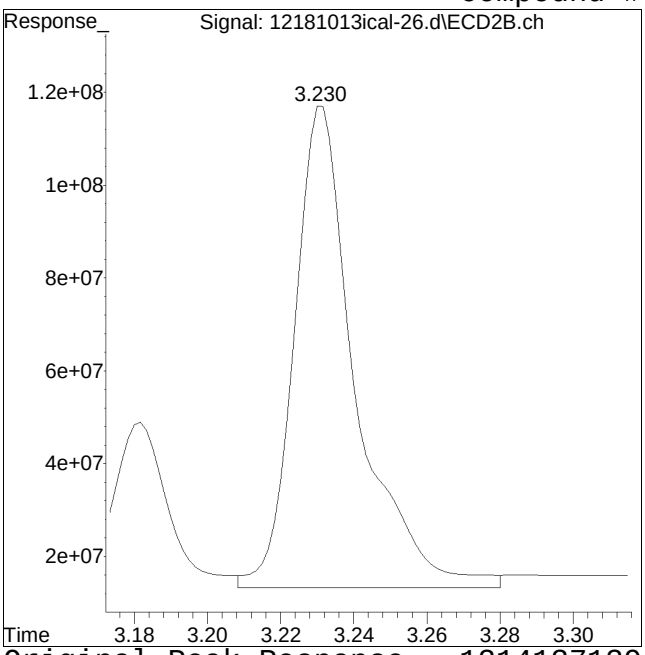
Original Peak Response = 439102237 Manual Peak Response = 311532648 M4
M4 = Poor automated baseline construction.

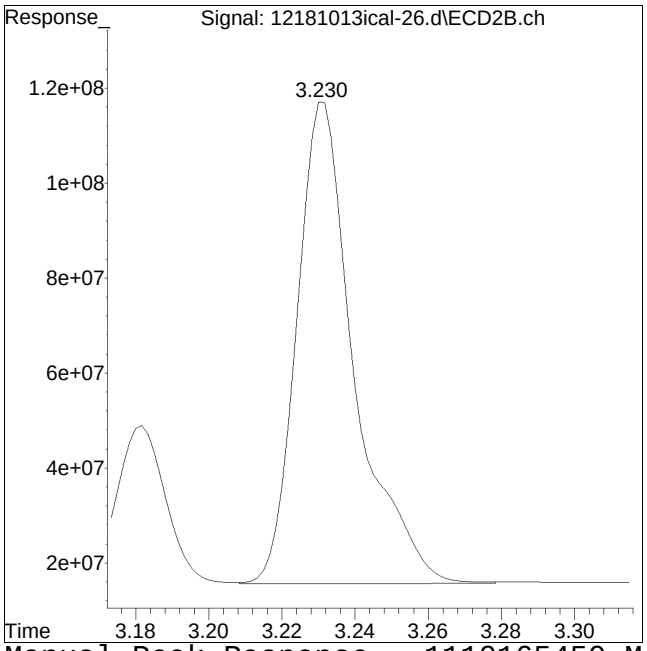
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-26.d
Date Inj'd : 10/13/2018 4:15 pm
Sample : il62154,42e,,8670

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:23 am

Compound #68: 1221-3 #2





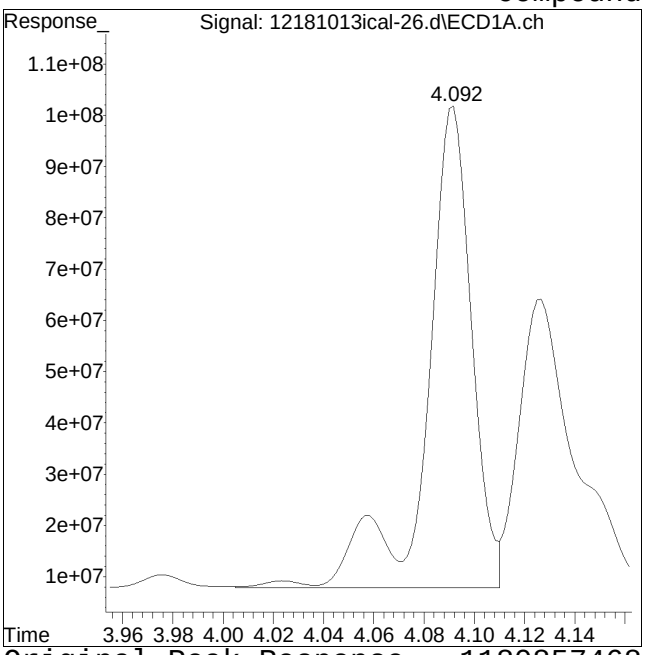
Original Peak Response = 1214137139 Manual Peak Response = 1110165450 M4
M4 = Poor automated baseline construction.

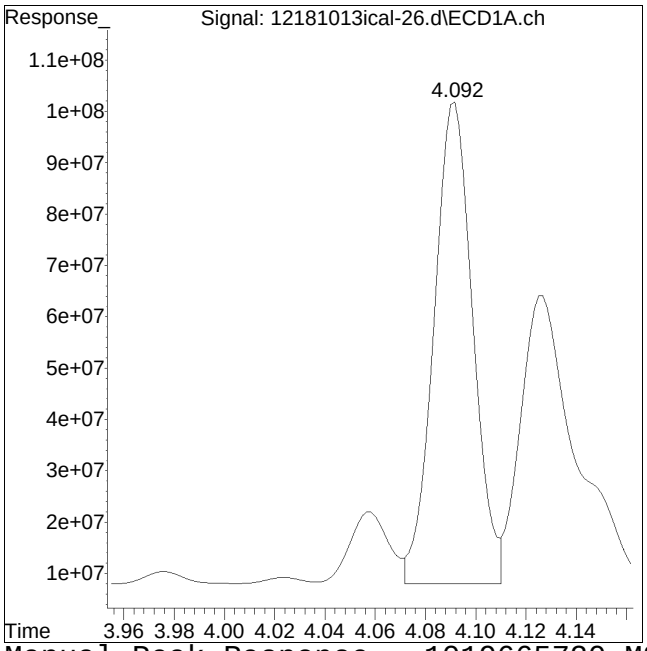
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-26.d
Date Inj'd : 10/13/2018 4:15 pm
Sample : il62154,42e,,8670

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:23 am

Compound #18: 1254-1





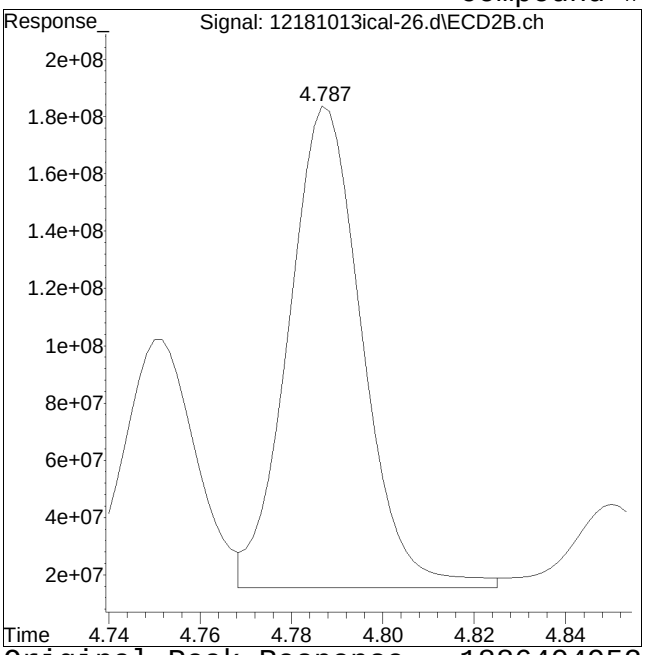
Original Peak Response = 1180857468 Manual Peak Response = 1019665720 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

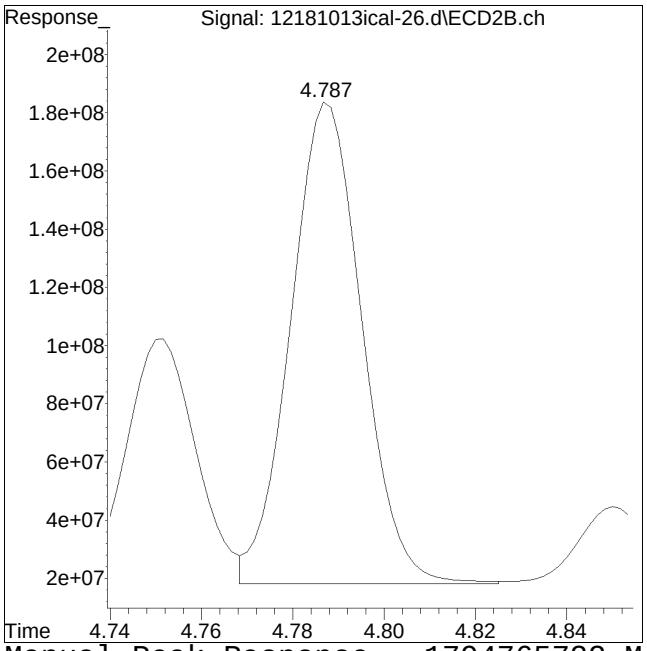
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-26.d
Date Inj'd : 10/13/2018 4:15 pm
Sample : il62154,42e,,8670

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:23 am

Compound #69: 1254-1 #2





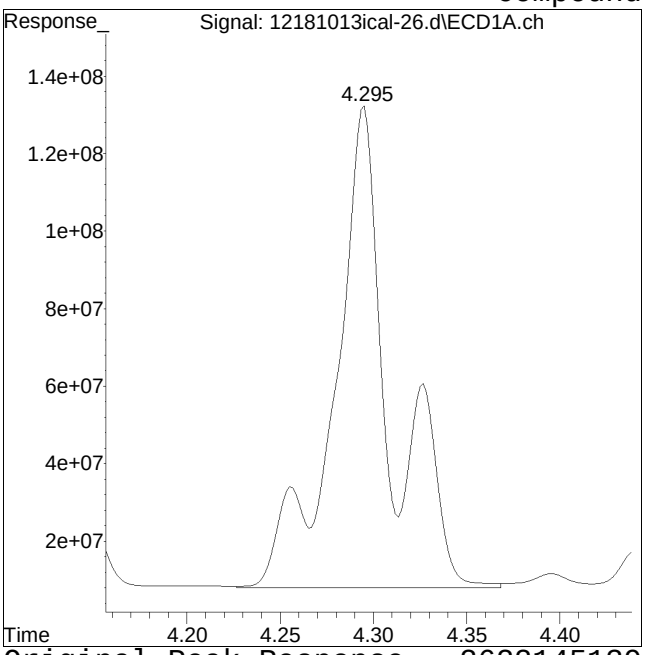
Original Peak Response = 1886404952 Manual Peak Response = 1794765722 M4
M4 = Poor automated baseline construction.

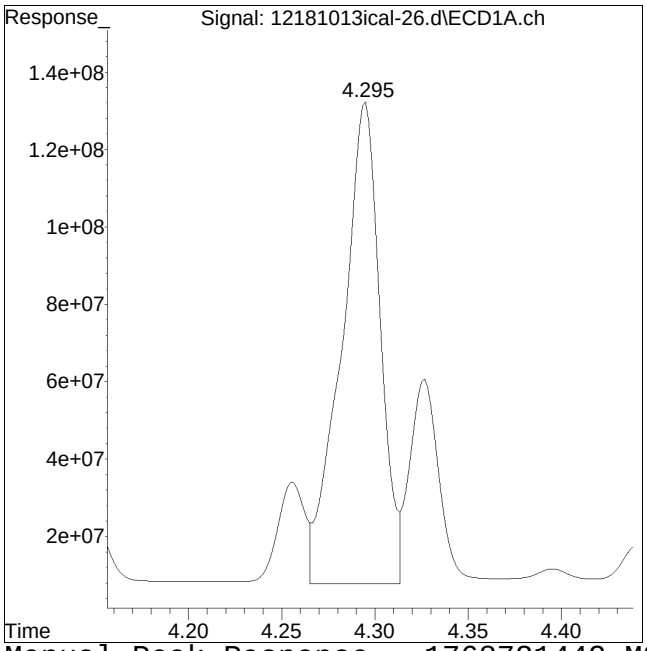
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-26.d
Date Inj'd : 10/13/2018 4:15 pm
Sample : il62154,42e,,8670

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:23 am

Compound #19: 1254-2





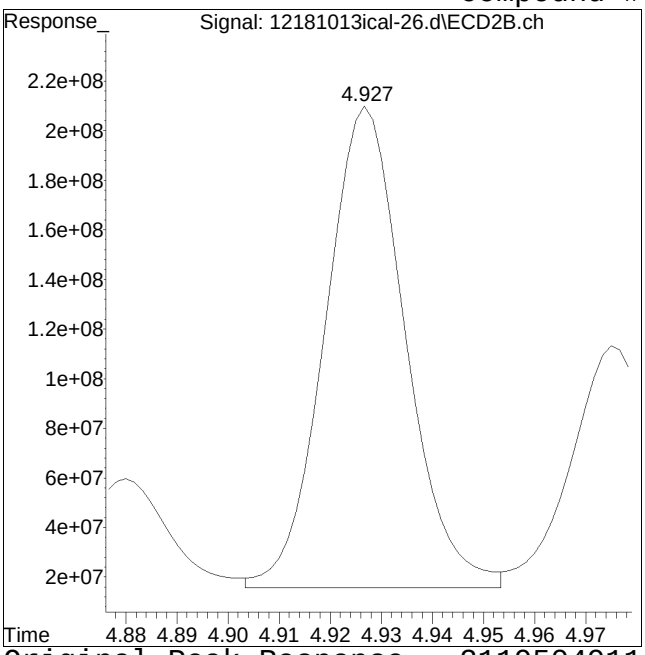
Original Peak Response = 2622145139 Manual Peak Response = 1768721442 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

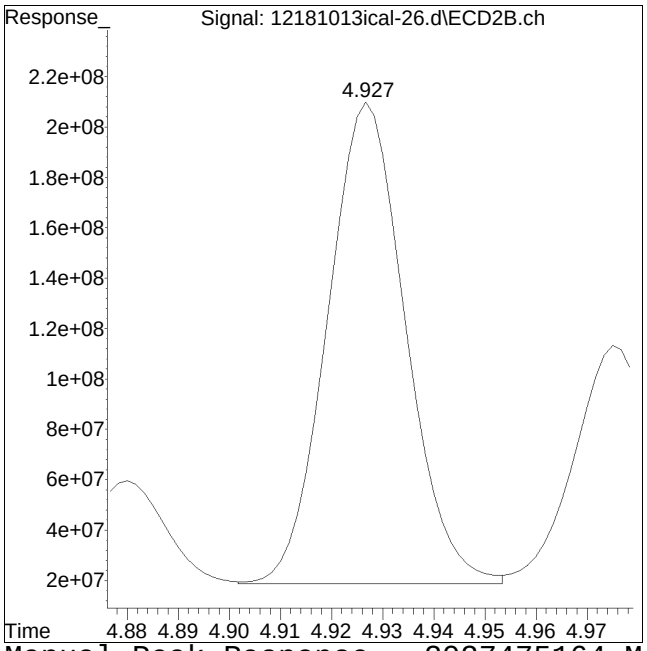
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-26.d
Date Inj'd : 10/13/2018 4:15 pm
Sample : il62154,42e,,8670

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:23 am

Compound #70: 1254-2 #2





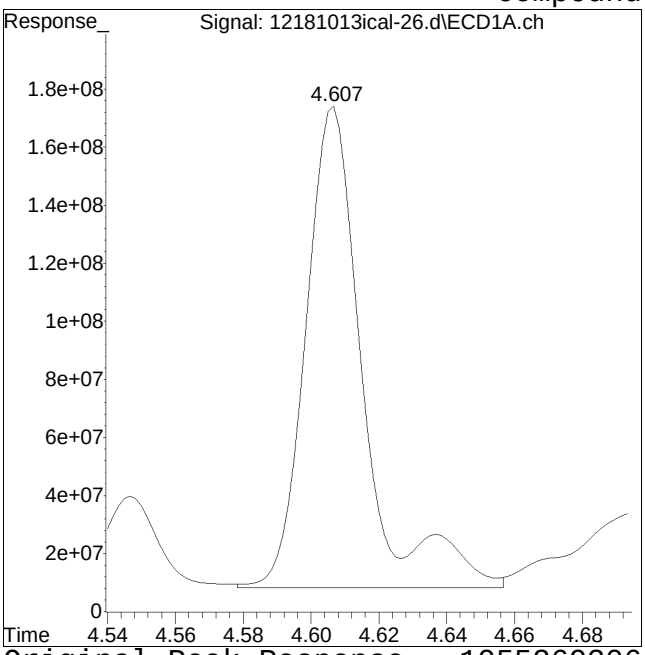
Original Peak Response = 2119504911 Manual Peak Response = 2027475164 M4
M4 = Poor automated baseline construction.

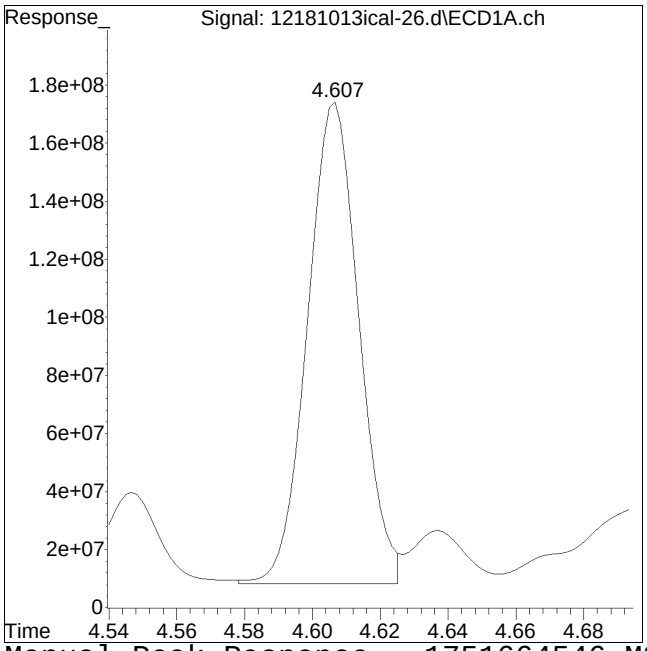
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-26.d
Date Inj'd : 10/13/2018 4:15 pm
Sample : il62154,42e,,8670

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:23 am

Compound #20: 1254-3





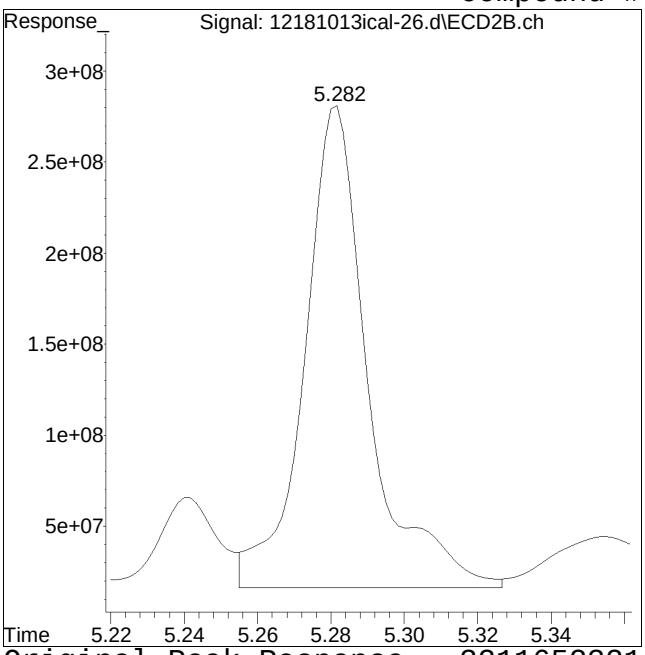
Original Peak Response = 1955269306 Manual Peak Response = 1751664546 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

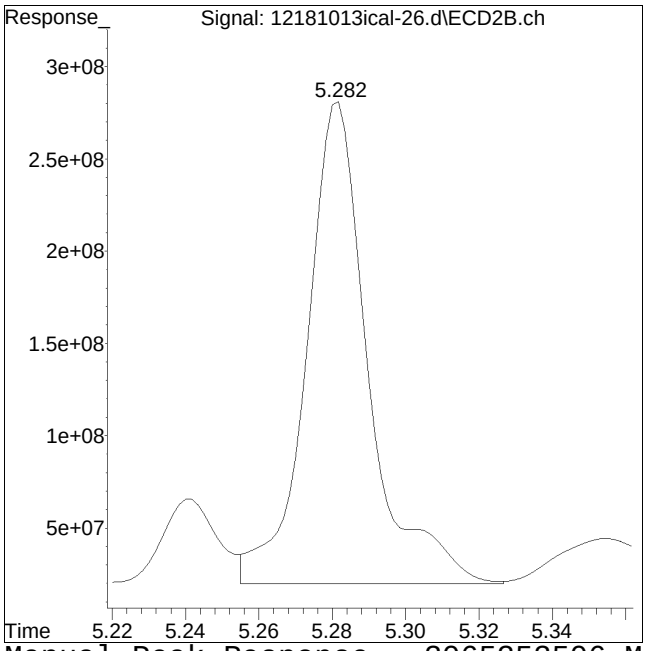
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-26.d
Date Inj'd : 10/13/2018 4:15 pm
Sample : il62154,42e,,8670

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:23 am

Compound #71: 1254-3 #2





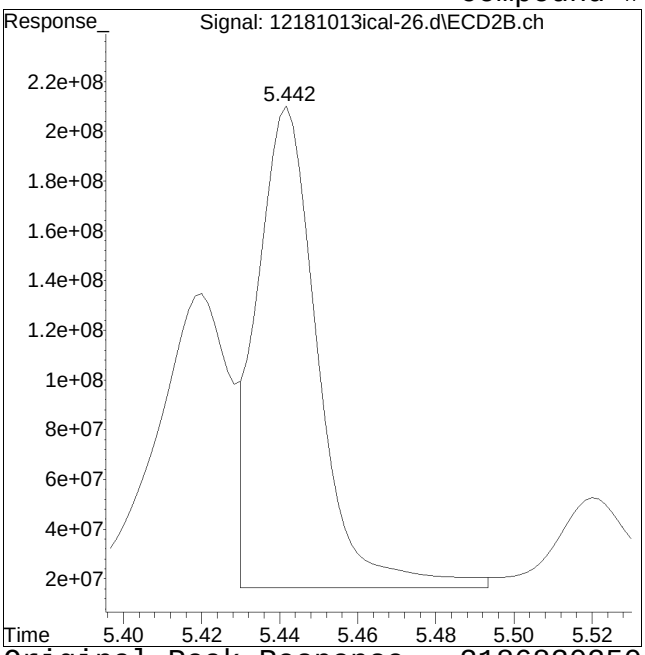
Original Peak Response = 3211652321 Manual Peak Response = 3065353506 M4
M4 = Poor automated baseline construction.

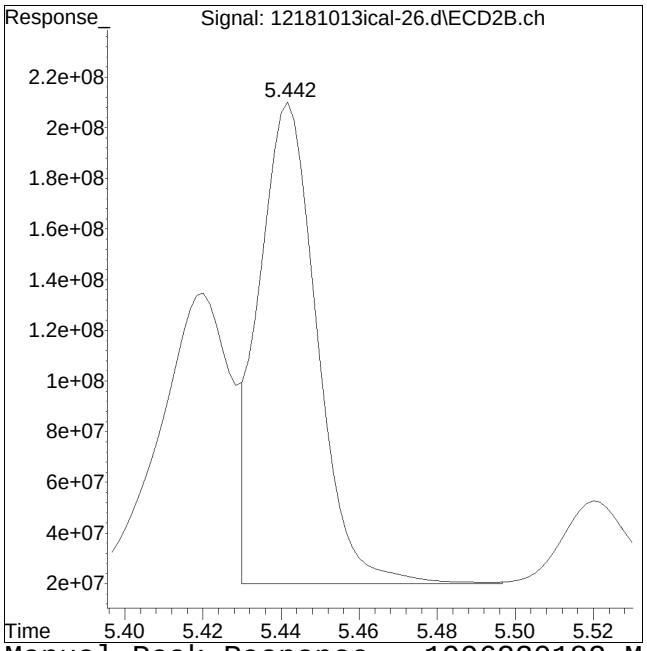
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-26.d
Date Inj'd : 10/13/2018 4:15 pm
Sample : il62154,42e,,8670

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:23 am

Compound #72: 1254-4 #2





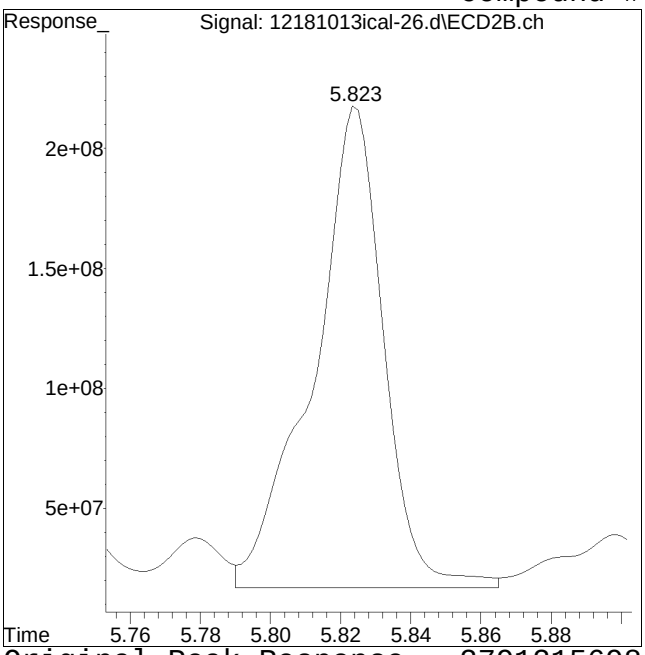
Original Peak Response = 2186830250 Manual Peak Response = 1996230182 M4
M4 = Poor automated baseline construction.

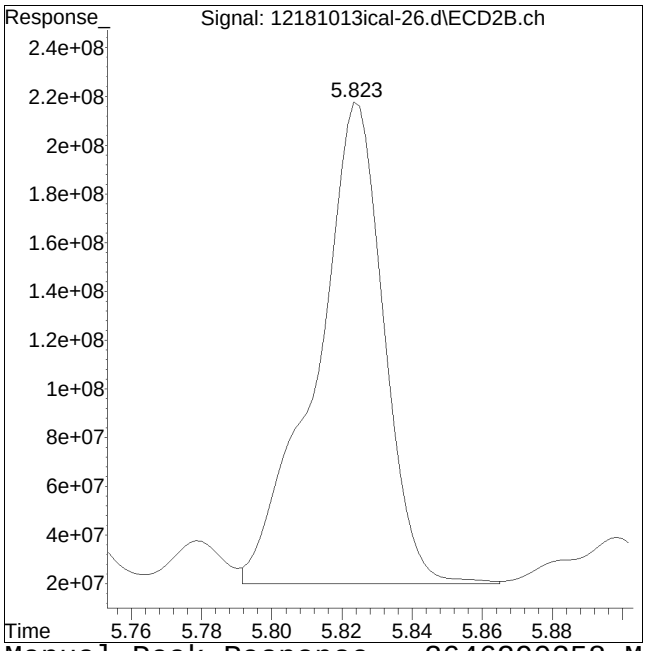
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-26.d
Date Inj'd : 10/13/2018 4:15 pm
Sample : il62154,42e,,8670

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:23 am

Compound #73: 1254-5 #2





Original Peak Response = 2791215698 Manual Peak Response = 2646290258 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-27.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 4:28 pm
Operator : Pest12:kb
Sample : il11660,42e,,8761
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 09:07:30 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 09:02:44 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	2.069	2.224	753.6E6	1129.8E6	250.000	250.000M4
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.544	2.860	21863596	35457844	7.048	7.108M4
	Spiked Amount 500.000	Range 30 - 150		Recovery =		1.41%#	1.42%#
3) s	Decachlorobi	6.564	7.276	25651549	41703173	13.836	14.159M4
	Spiked Amount 500.000	Range 30 - 150		Recovery =		2.77%#	2.83%#
	Target Compounds						
4) l1	1016-1	2.779	3.231	6010809	9156671	110.760M4	106.165M4
5) l1	1016-2	3.022	3.558	13838254	22086242	119.233M4	115.261M4
6) l1	1016-3	3.366	3.952	27333810	46775687	116.908	117.721M1
7) l1	1016-4	3.467	4.066	11440004	16607004	117.701	111.312M4
8) l1	1016-5	3.787	4.453	11914075	11534102	115.257	100.385M4
	Sum 1016-1			70536951	106.2E6	579.858	550.845
Average	1016-1					115.972	110.169
9) l2	1260-1	4.743	5.422	16236593	30558251	117.303M4	140.992M4
10) l2	1260-2	4.951	5.565	23871250	25147618	116.485M4	99.364M4
11) l2	1260-3	5.417	6.091	14188604	17323807	112.148M4	92.260M4
12) l2	1260-4	5.634	6.251	31303748	44728458	109.483	110.764M4
13) l2	1260-5	5.833	6.503	21324180	28668597	113.615	105.460M4
	Sum 1260-1			106.9E6	146.4E6	NoCal	NoCal D

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-27.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 4:28 pm
Operator : Pest12:kb
Sample : il11660,42e,,8761
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 09:07:30 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 09:02:44 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1260-1					113.807	109.768
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-27.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 4:28 pm
Operator : Pest12:kb
Sample : il11660,42e,,8761
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 09:07:30 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 09:02:44 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

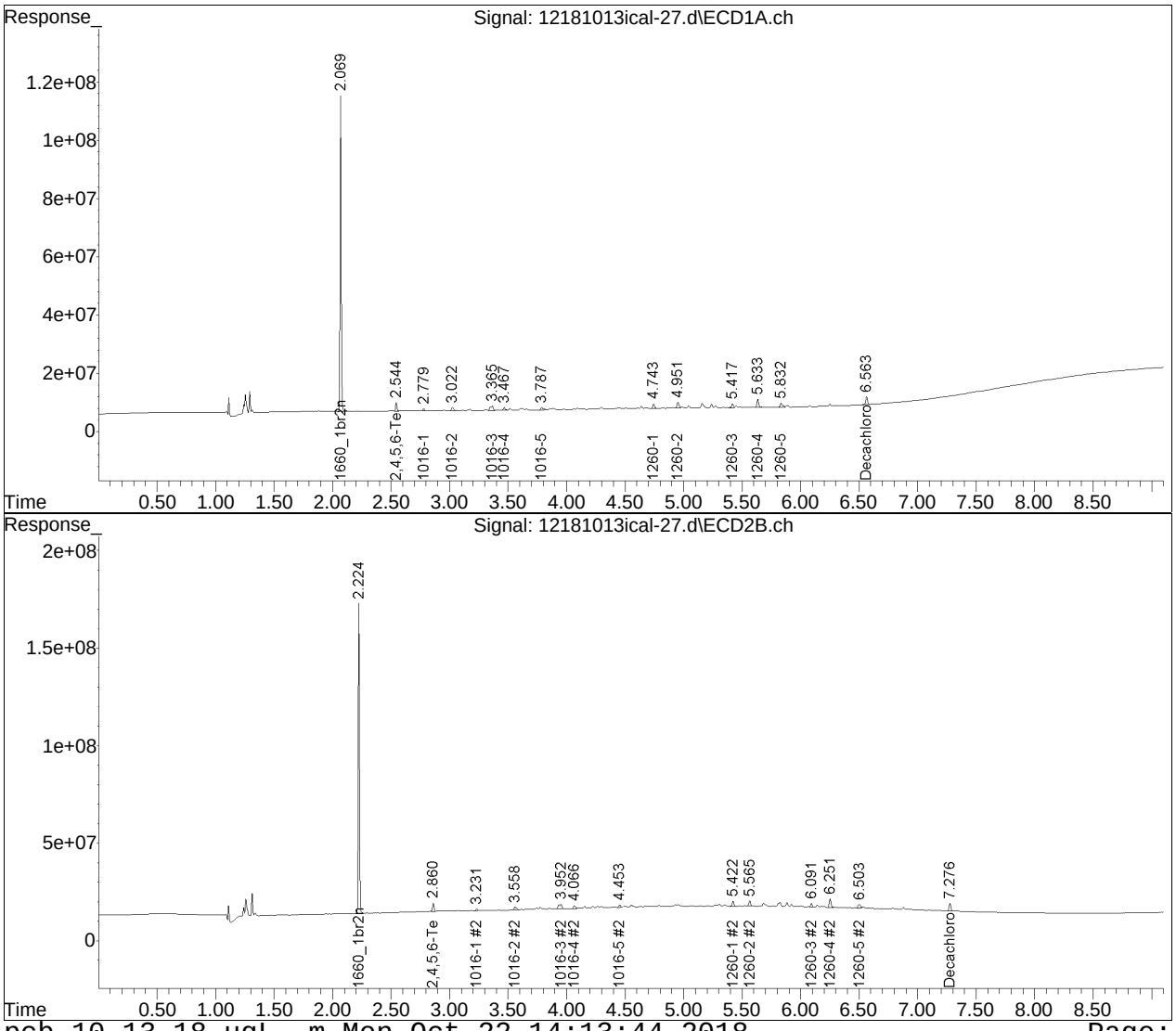
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-27.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 4:28 pm
Operator : Pest12:kb
Sample : il11660,42e,,8761
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 09:07:30 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 09:02:44 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

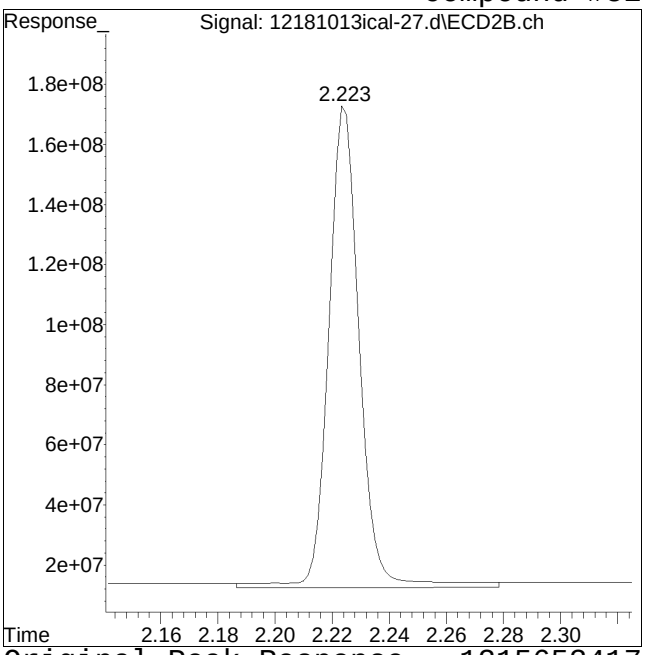


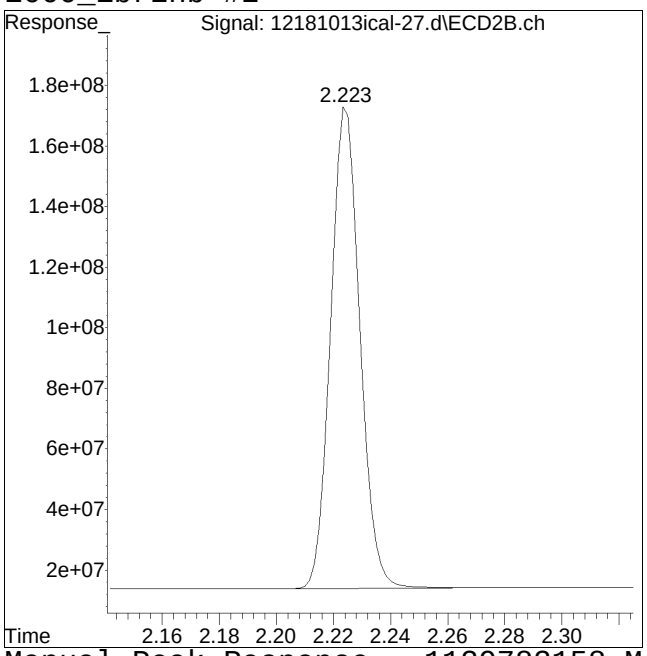
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-27.d
Date Inj'd : 10/13/2018 4:28 pm
Sample : il11660,42e,,8761

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:02 am

Compound #52: 1660_1br2nb #2





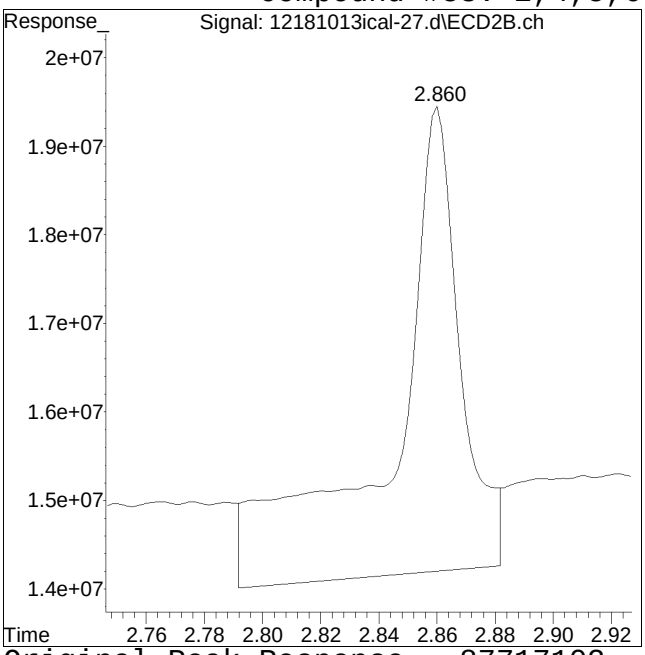
Original Peak Response = 1215653417 Manual Peak Response = 1129783158 M4
M4 = Poor automated baseline construction.

Manual Integration Report

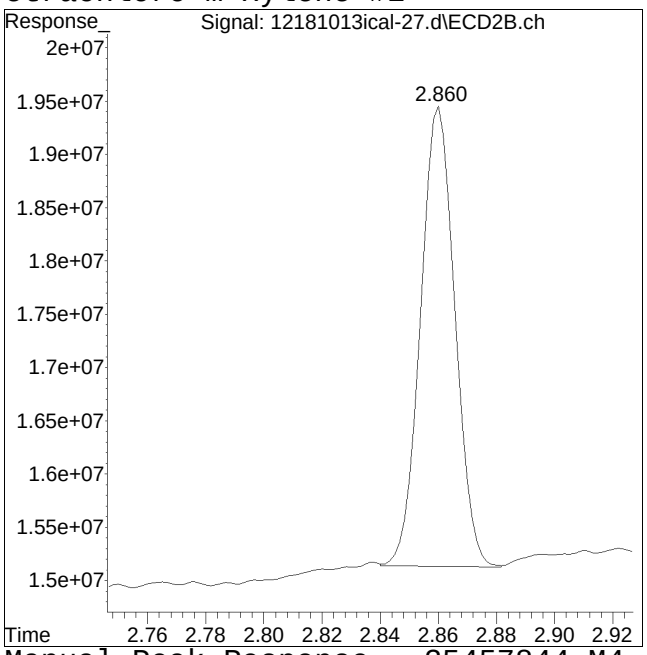
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-27.d
Date Inj'd : 10/13/2018 4:28 pm
Sample : il11660,42e,,8761

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:02 am

Compound #53: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 87717102



Manual Peak Response = 35457844 M4

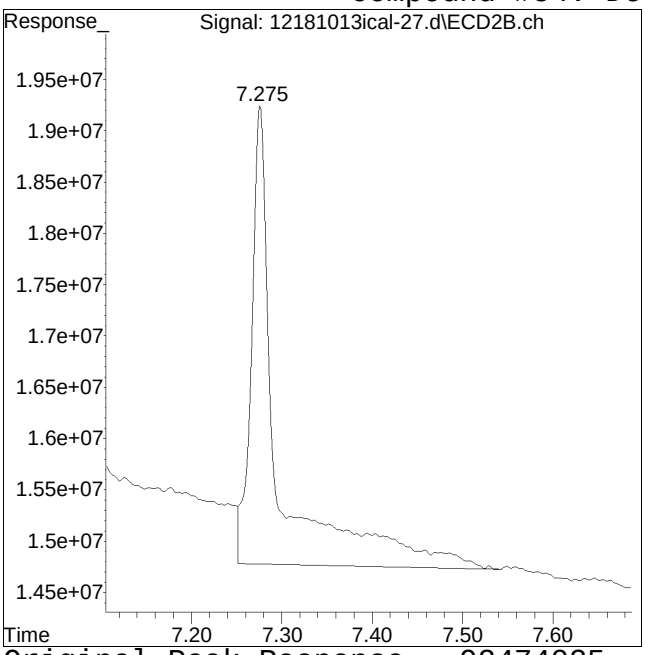
M4 = Poor automated baseline construction.

Manual Integration Report

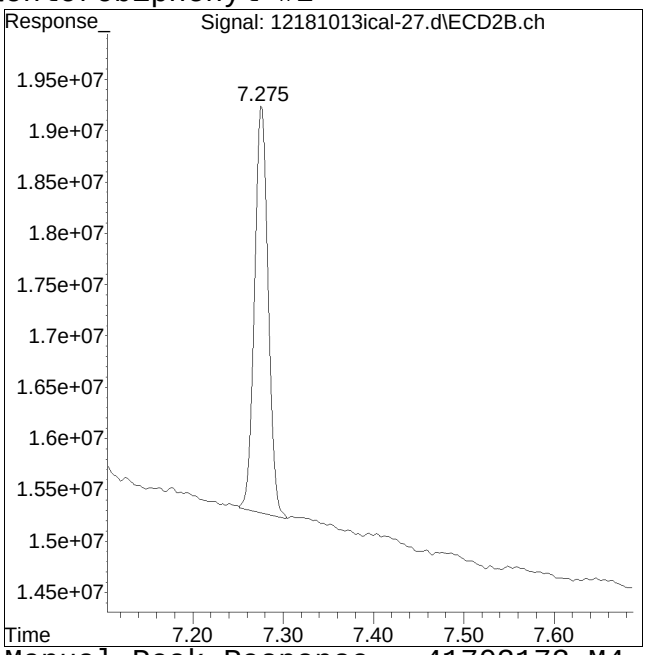
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-27.d
Date Inj'd : 10/13/2018 4:28 pm
Sample : il11660,42e,,8761

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:02 am

Compound #54: Decachlorobiphenyl #2



Original Peak Response = 92474025



Manual Peak Response = 41703173 M4

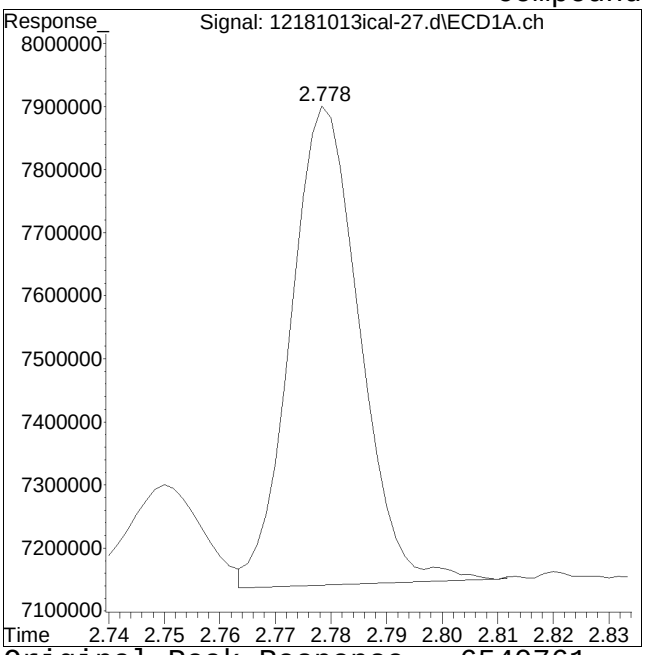
M4 = Poor automated baseline construction.

Manual Integration Report

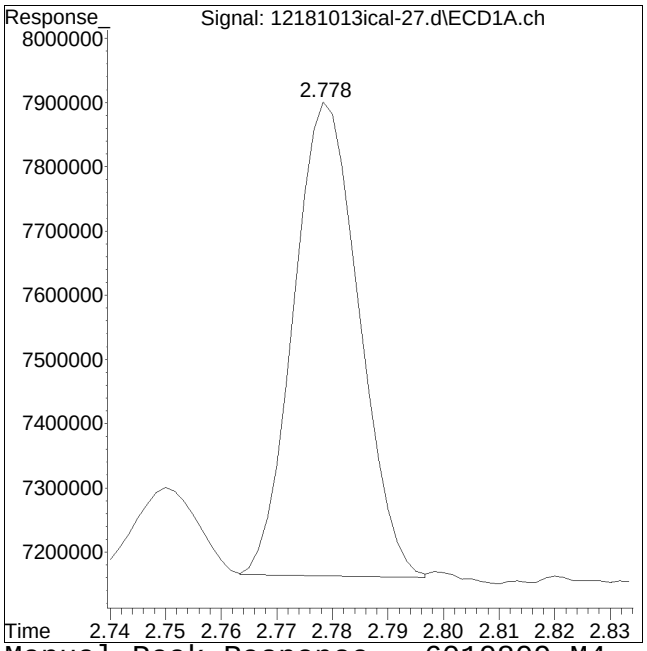
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-27.d
Date Inj'd : 10/13/2018 4:28 pm
Sample : il11660,42e,,8761

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:02 am

Compound #4: 1016-1



Original Peak Response = 6540761



Manual Peak Response = 6010809 M4

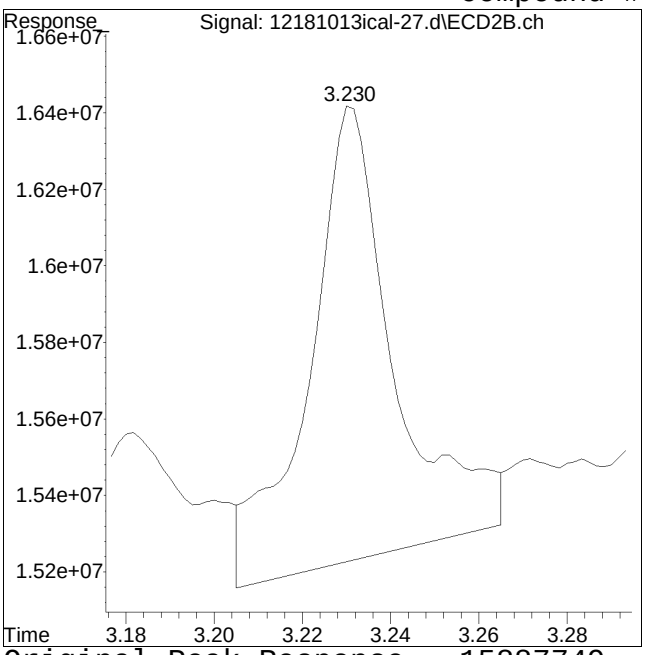
M4 = Poor automated baseline construction.

Manual Integration Report

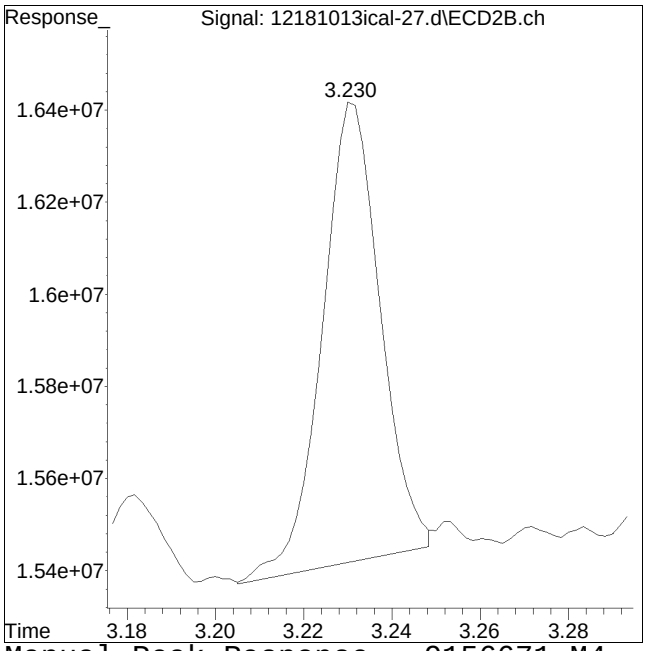
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-27.d
Date Inj'd : 10/13/2018 4:28 pm
Sample : il11660,42e,,8761

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:02 am

Compound #55: 1016-1 #2



Original Peak Response = 15887749



Manual Peak Response = 9156671 M4

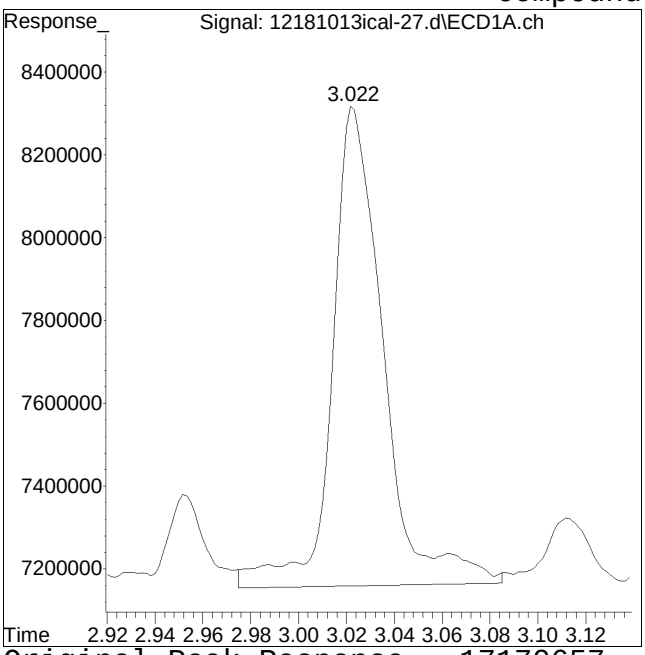
M4 = Poor automated baseline construction.

Manual Integration Report

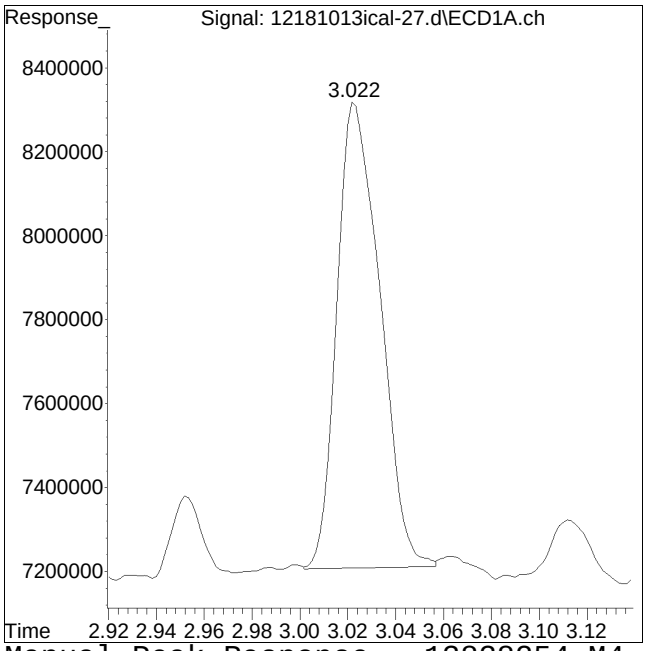
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-27.d
Date Inj'd : 10/13/2018 4:28 pm
Sample : il11660,42e,,8761

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:02 am

Compound #5: 1016-2



Original Peak Response = 17170657



Manual Peak Response = 13838254 M4

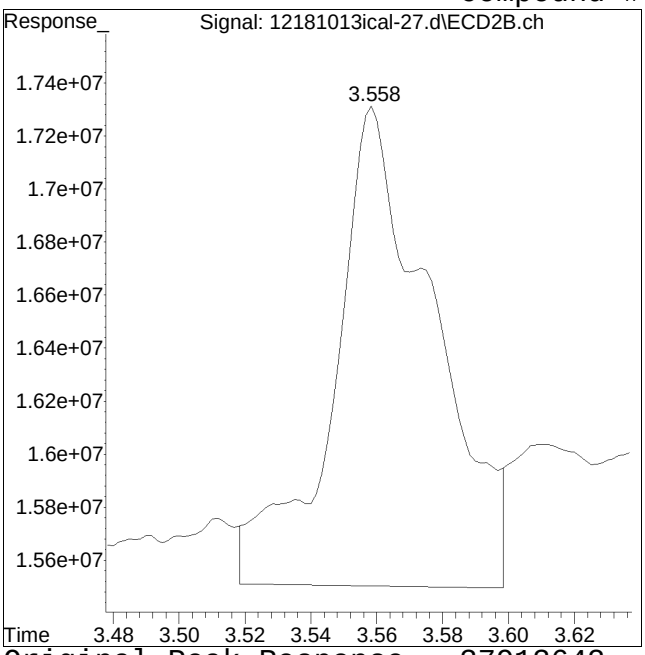
M4 = Poor automated baseline construction.

Manual Integration Report

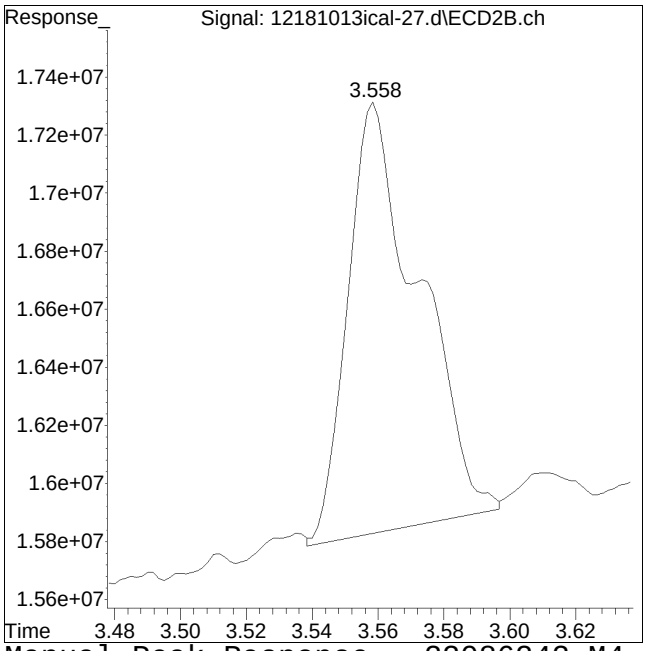
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-27.d
Date Inj'd : 10/13/2018 4:28 pm
Sample : il11660,42e,,8761

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:02 am

Compound #56: 1016-2 #2



Original Peak Response = 37913642



Manual Peak Response = 22086242 M4

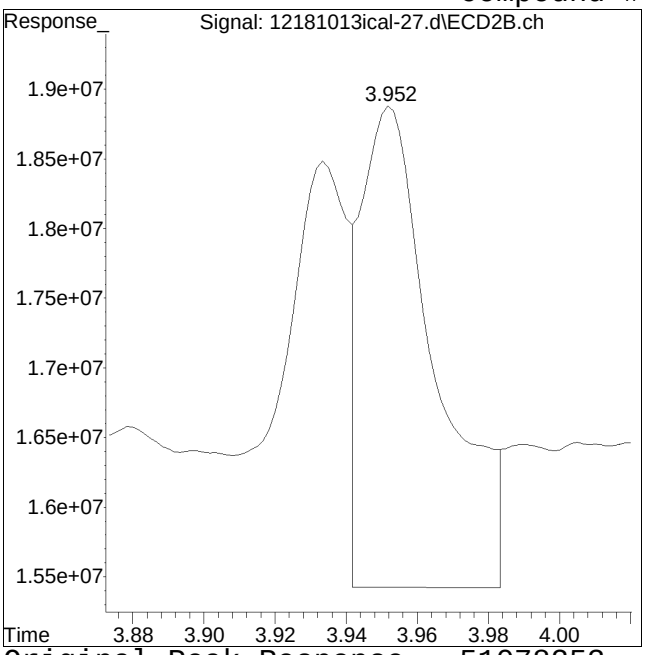
M4 = Poor automated baseline construction.

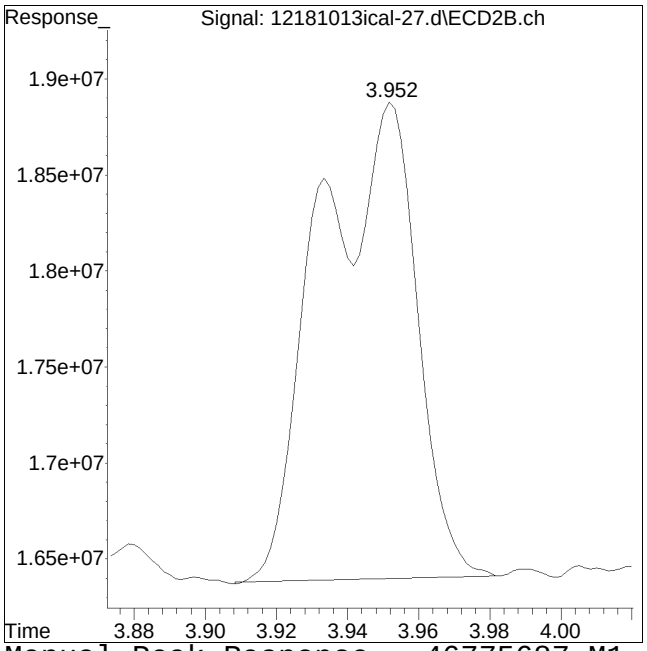
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-27.d
Date Inj'd : 10/13/2018 4:28 pm
Sample : il11660,42e,,8761

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:02 am

Compound #57: 1016-3 #2





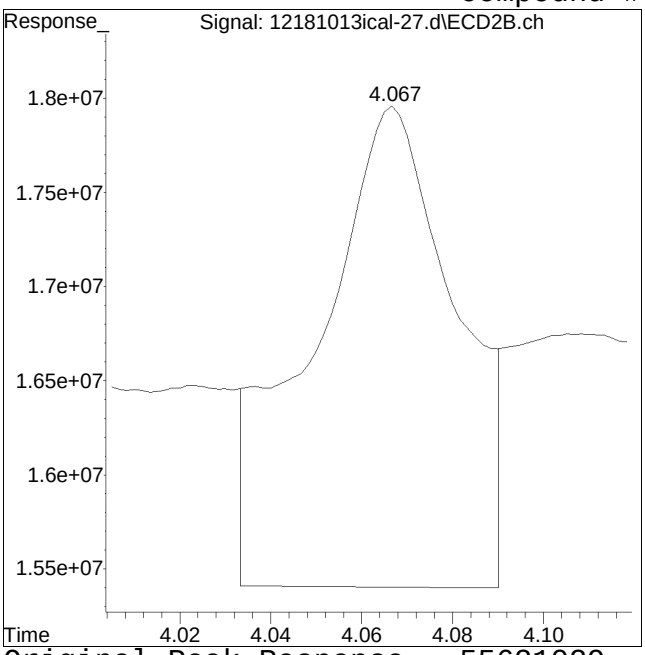
Original Peak Response = 51078253 Manual Peak Response = 46775687 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

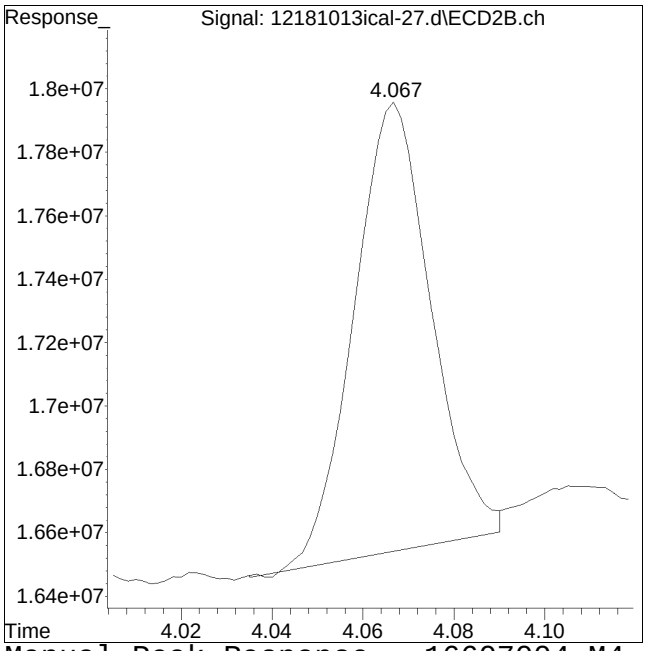
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-27.d
Date Inj'd : 10/13/2018 4:28 pm
Sample : il11660,42e,,8761

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:02 am

Compound #58: 1016-4 #2



Original Peak Response = 55621029



Manual Peak Response = 16607004 M4

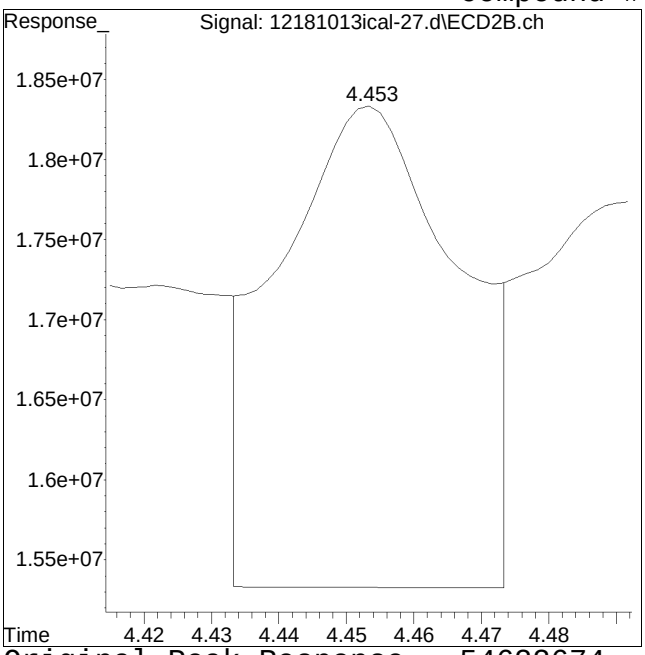
M4 = Poor automated baseline construction.

Manual Integration Report

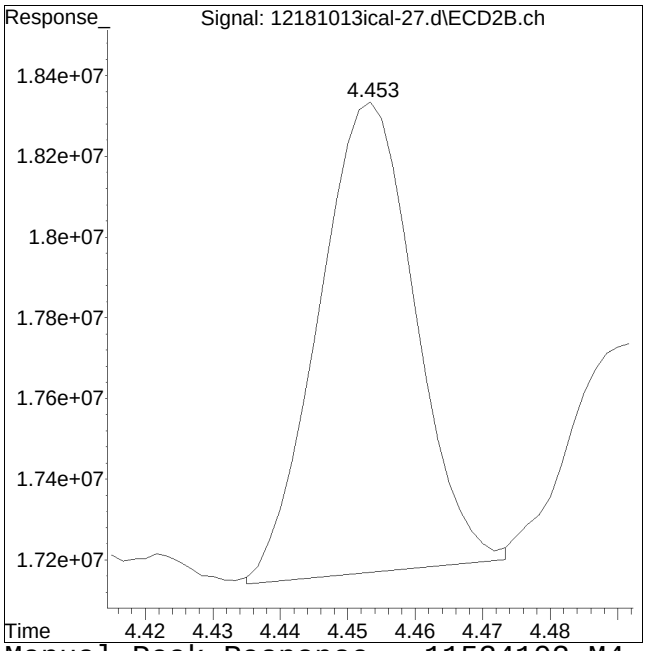
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-27.d
Date Inj'd : 10/13/2018 4:28 pm
Sample : il11660,42e,,8761

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:02 am

Compound #59: 1016-5 #2



Original Peak Response = 54622674



Manual Peak Response = 11534102 M4

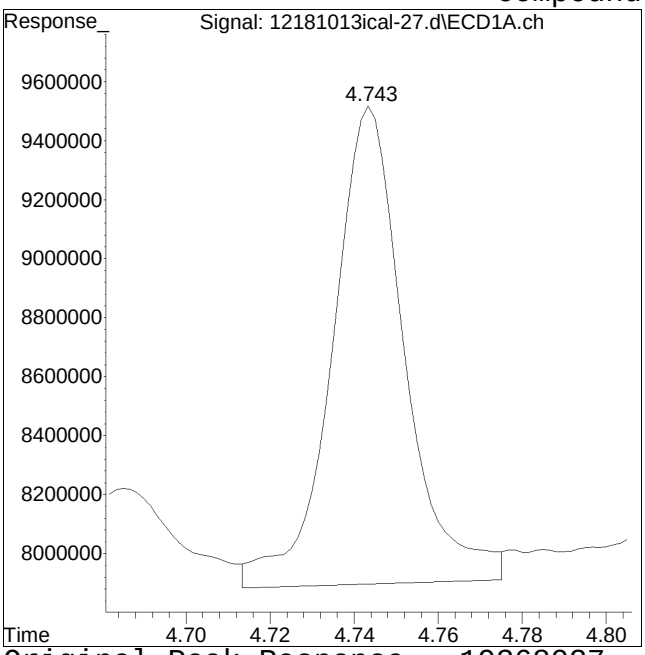
M4 = Poor automated baseline construction.

Manual Integration Report

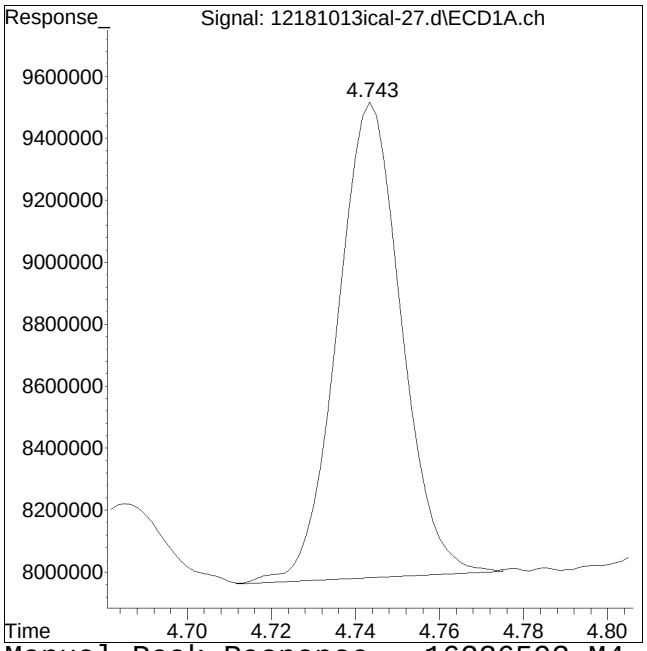
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-27.d
Date Inj'd : 10/13/2018 4:28 pm
Sample : il11660,42e,,8761

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:02 am

Compound #9: 1260-1



Original Peak Response = 19368037



Manual Peak Response = 16236593 M4

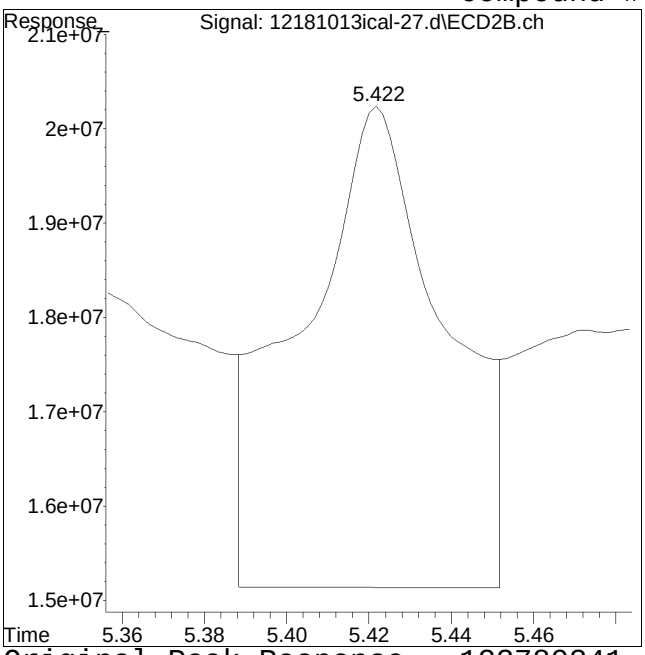
M4 = Poor automated baseline construction.

Manual Integration Report

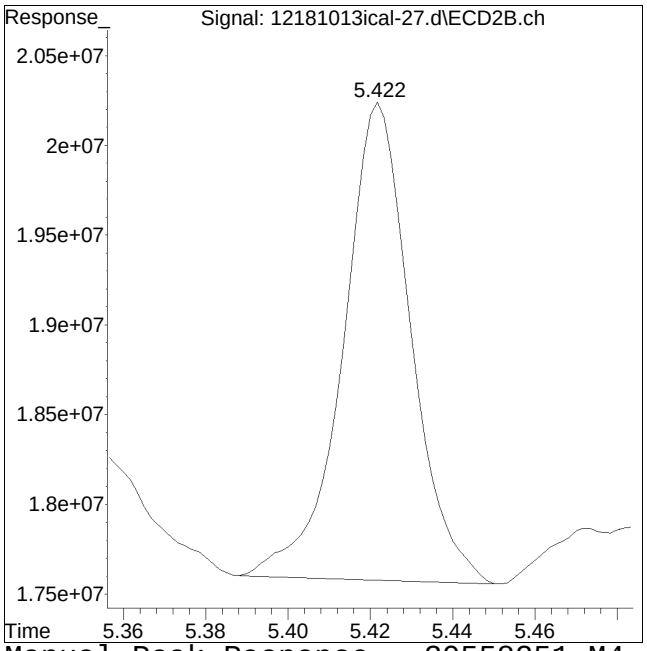
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-27.d
Date Inj'd : 10/13/2018 4:28 pm
Sample : il11660,42e,,8761

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:02 am

Compound #60: 1260-1 #2



Original Peak Response = 123780341



Manual Peak Response = 30558251 M4

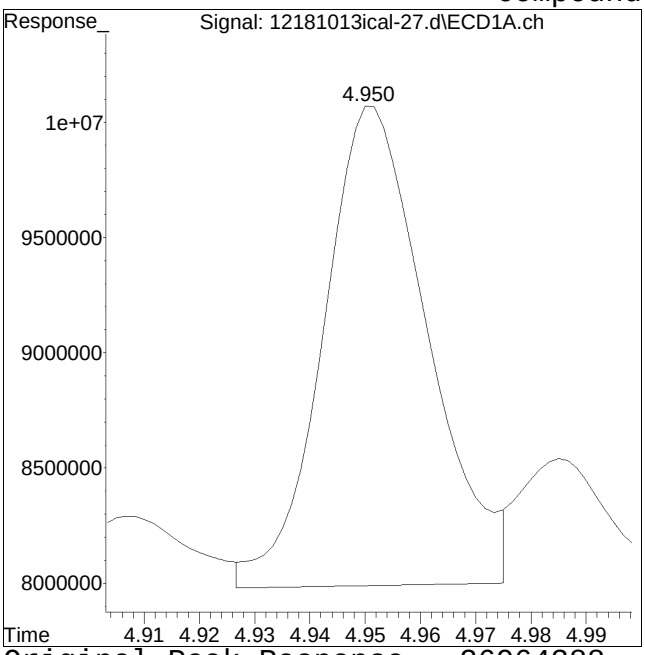
M4 = Poor automated baseline construction.

Manual Integration Report

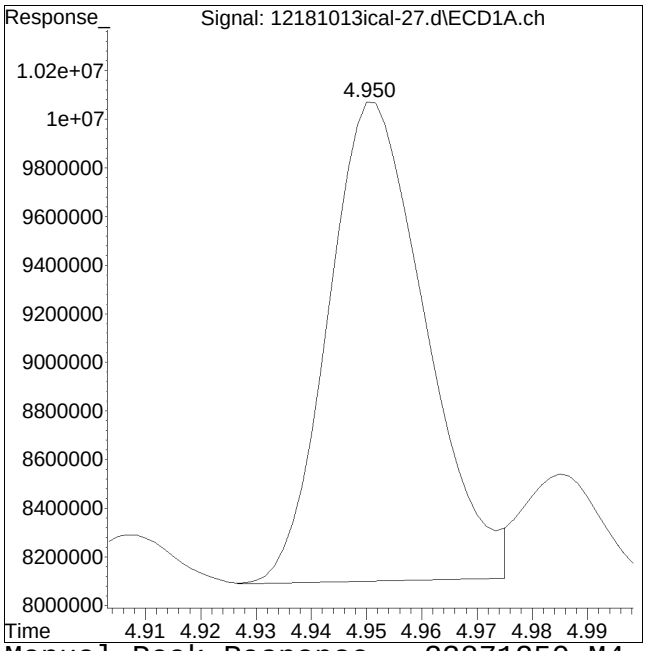
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-27.d
Date Inj'd : 10/13/2018 4:28 pm
Sample : il11660,42e,,8761

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:02 am

Compound #10: 1260-2



Original Peak Response = 26964388



Manual Peak Response = 23871250 M4

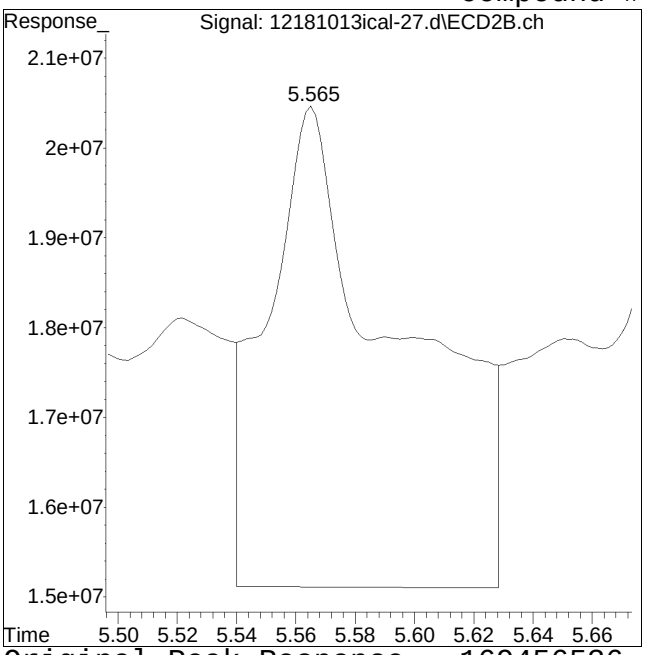
M4 = Poor automated baseline construction.

Manual Integration Report

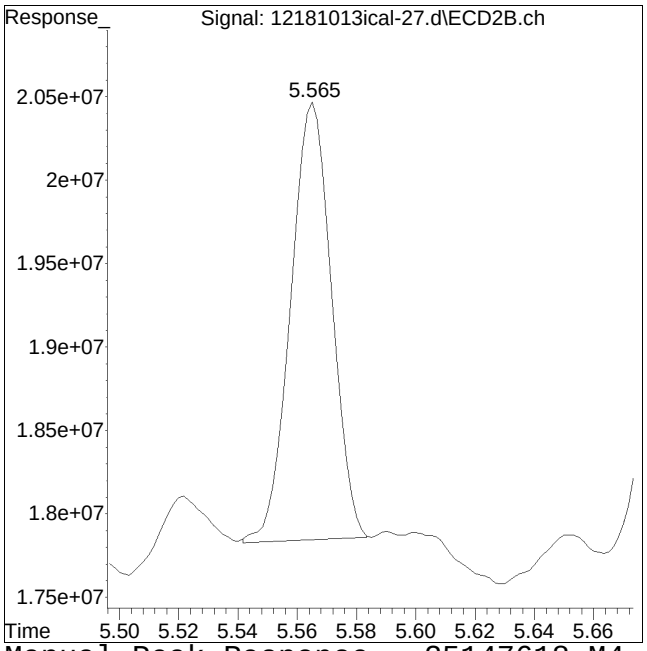
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-27.d
Date Inj'd : 10/13/2018 4:28 pm
Sample : il11660,42e,,8761

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:02 am

Compound #61: 1260-2 #2



Original Peak Response = 169456536



Manual Peak Response = 25147618 M4

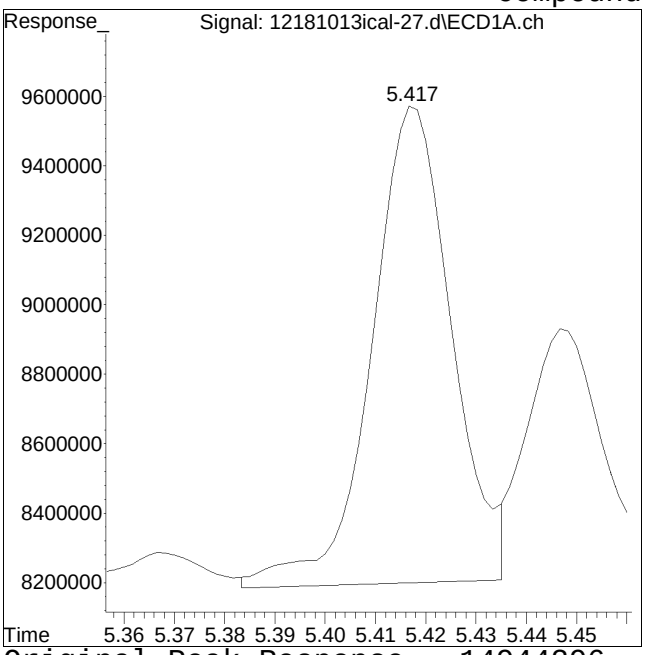
M4 = Poor automated baseline construction.

Manual Integration Report

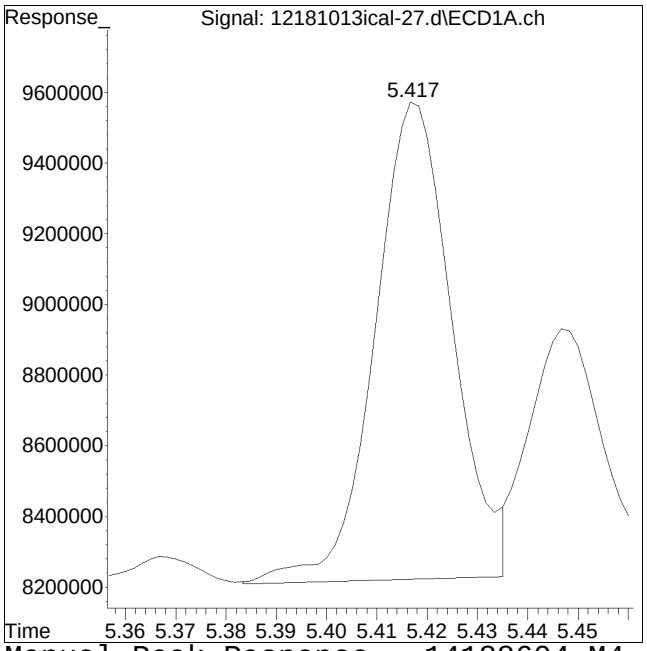
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-27.d
Date Inj'd : 10/13/2018 4:28 pm
Sample : il11660,42e,,8761

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:02 am

Compound #11: 1260-3



Original Peak Response = 14944296



Manual Peak Response = 14188604 M4

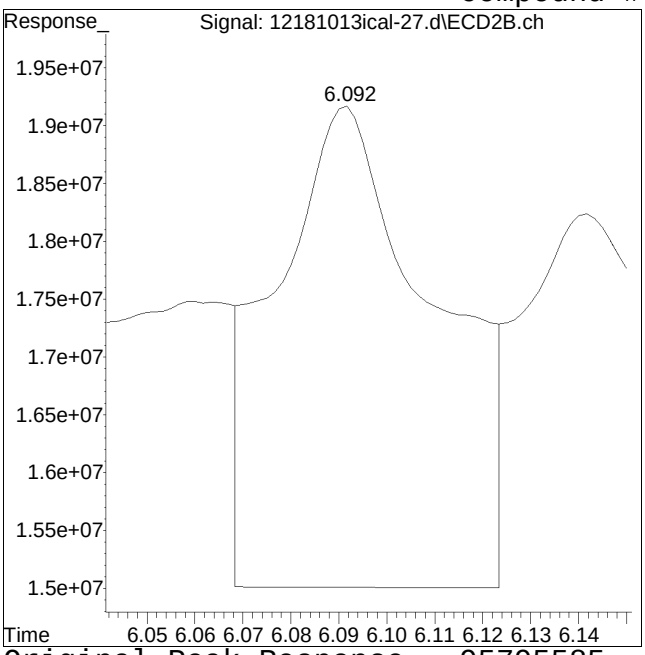
M4 = Poor automated baseline construction.

Manual Integration Report

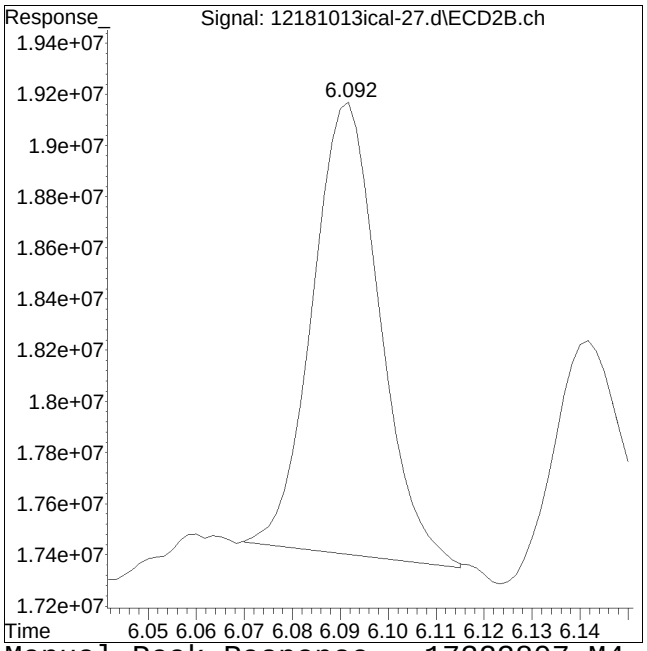
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-27.d
Date Inj'd : 10/13/2018 4:28 pm
Sample : il11660,42e,,8761

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:02 am

Compound #62: 1260-3 #2



Original Peak Response = 95795585



Manual Peak Response = 17323807 M4

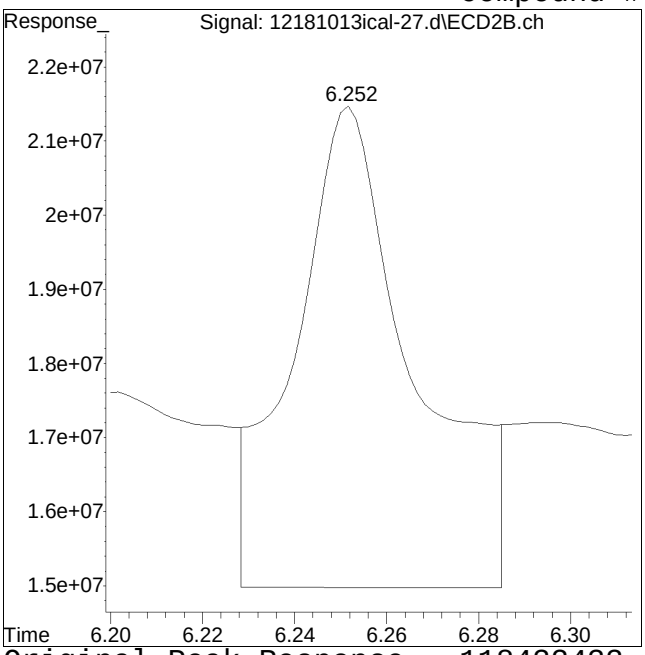
M4 = Poor automated baseline construction.

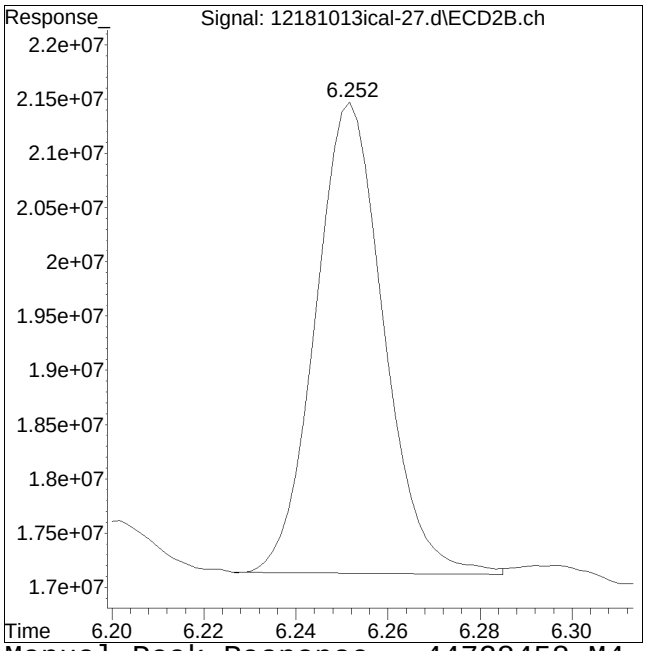
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-27.d
Date Inj'd : 10/13/2018 4:28 pm
Sample : il11660,42e,,8761

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:02 am

Compound #63: 1260-4 #2





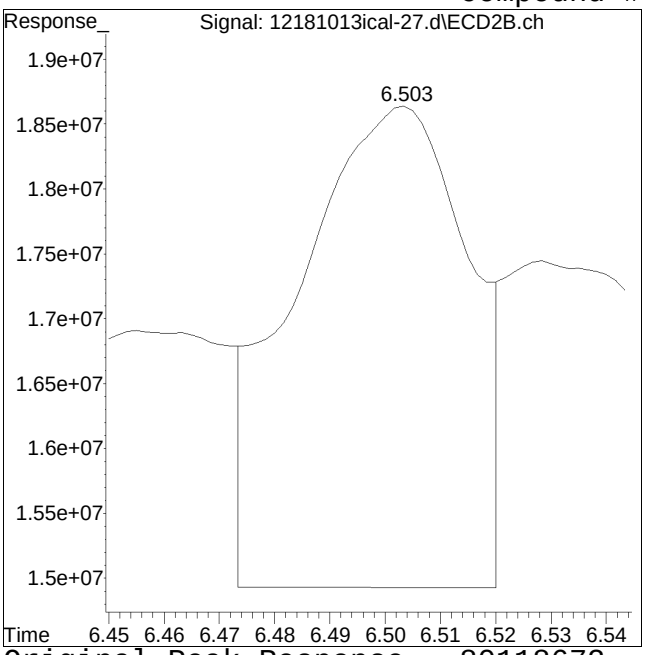
Original Peak Response = 118432433 Manual Peak Response = 44728458 M4
M4 = Poor automated baseline construction.

Manual Integration Report

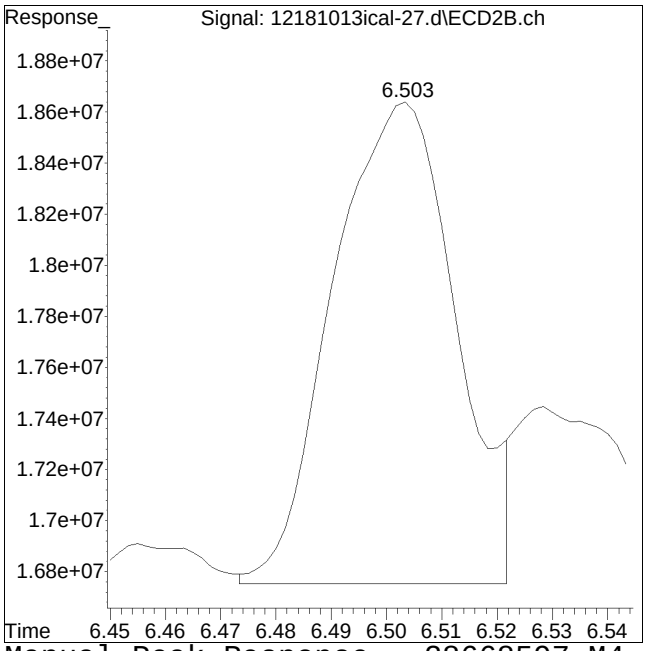
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-27.d
Date Inj'd : 10/13/2018 4:28 pm
Sample : il11660,42e,,8761

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 9:02 am

Compound #64: 1260-5 #2



Original Peak Response = 80118672



Manual Peak Response = 28668597 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-28.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 4:40 pm
Operator : Pest12:kb
Sample : il21660,42e,,8760
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 09:02:34 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 08:57:17 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	2.069	2.224	832.9E6	1263.9E6	250.000M4	250.000M4
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.544	2.860	115.7E6	190.8E6	34.198M4	34.786M4
	Spiked Amount 500.000	Range 30 - 150		Recovery =		6.84%#	6.96%#
3) s	Decachlorobi	6.566	7.278	137.5E6	225.2E6	67.948	69.545
	Spiked Amount 500.000	Range 30 - 150		Recovery =		13.59%#	13.91%#
	Target Compounds						
4) l1	1016-1	2.779	3.231	33160192	52925303	567.813M4	562.174M4
5) l1	1016-2	3.022	3.558	72168185	118.4E6	580.739M4	567.492M4
6) l1	1016-3	3.365	3.952	141.3E6	245.8E6	559.934M4	567.907M1
7) l1	1016-4	3.466	4.066	56260060	89462049	529.960M4	545.863M4
8) l1	1016-5	3.786	4.453	62633497	66932651	561.720M1	526.196M4
	Sum 1016-1			365.5E6	573.5E6	2800.167	2769.632
	Average 1016-1					560.033	553.926
9) l2	1260-1	4.743	5.422	84955892	134.8E6	571.083M4	571.816M4
10) l2	1260-2	4.950	5.565	124.3E6	154.0E6	562.589M4	555.953M4

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-28.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 4:40 pm
Operator : Pest12:kb
Sample : il21660,42e,,8760
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 09:02:34 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 08:57:17 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
11) l2	1260-3	5.418	6.091	76610563	113.4E6	561.272	550.892M4
12) l2	1260-4	5.634	6.252	167.5E6	238.8E6	538.061M1	536.256M4
13) l2	1260-5	5.833	6.504	111.1E6	160.7E6	545.134	535.907M4
Sum	1260-1			564.5E6	801.6E6	NoCal	NoCal D
Average	1260-1					555.628	550.165
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-28.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 4:40 pm
Operator : Pest12:kb
Sample : il21660,42e,,8760
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 09:02:34 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 08:57:17 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-28.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 4:40 pm
Operator : Pest12:kb
Sample : il21660,42e,,8760
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 09:02:34 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 08:57:17 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

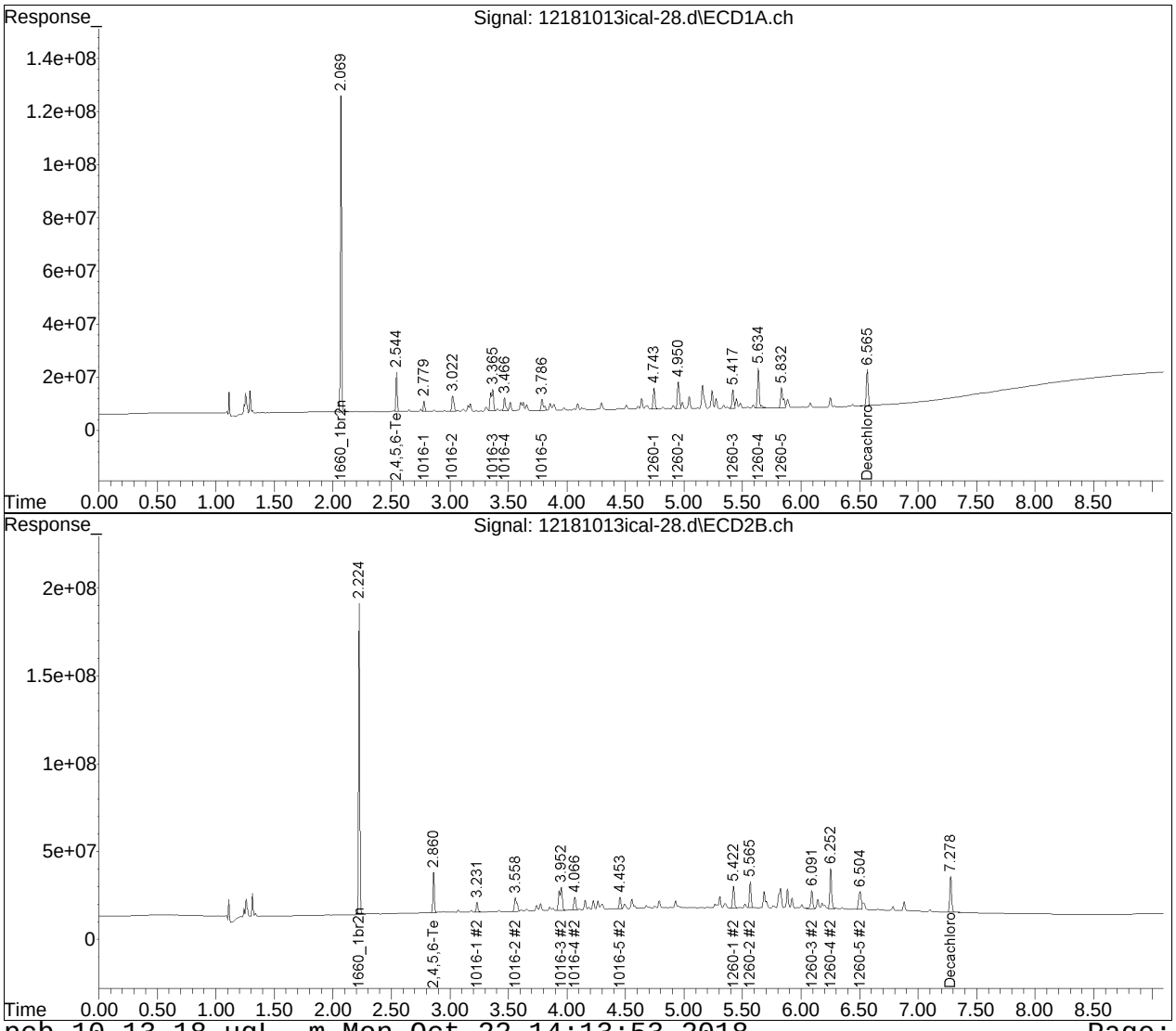
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-28.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 4:40 pm
Operator : Pest12:kb
Sample : il21660,42e,,8760
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 09:02:34 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 08:57:17 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

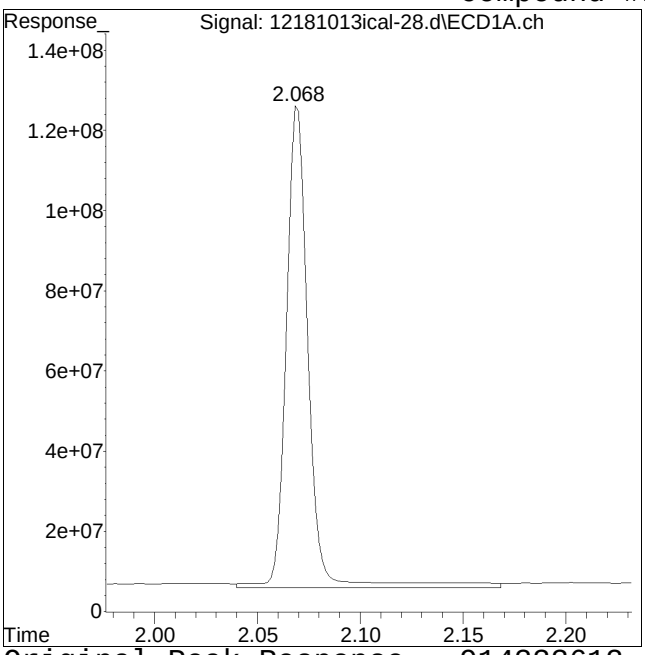


Manual Integration Report

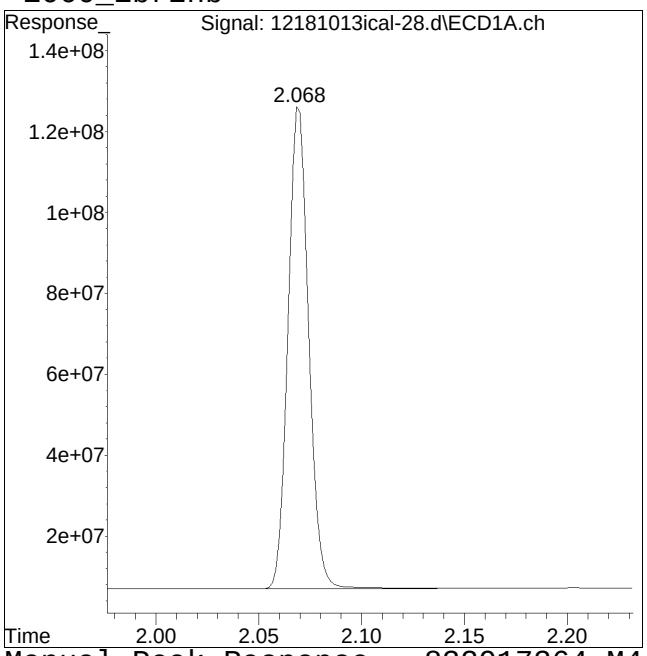
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-28.d
Date Inj'd : 10/13/2018 4:40 pm
Sample : il21660,42e,,8760

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:57 am

Compound #1: 1660_1br2nb



Original Peak Response = 914333612



Manual Peak Response = 832917364 M4

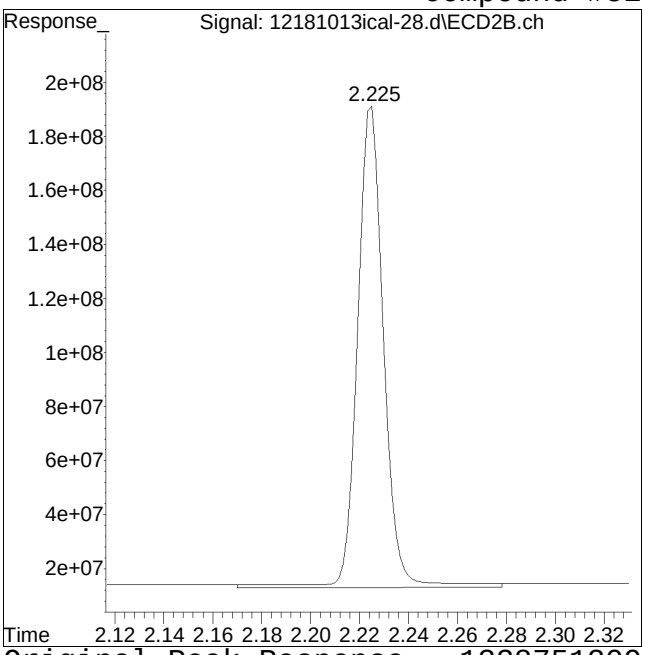
M4 = Poor automated baseline construction.

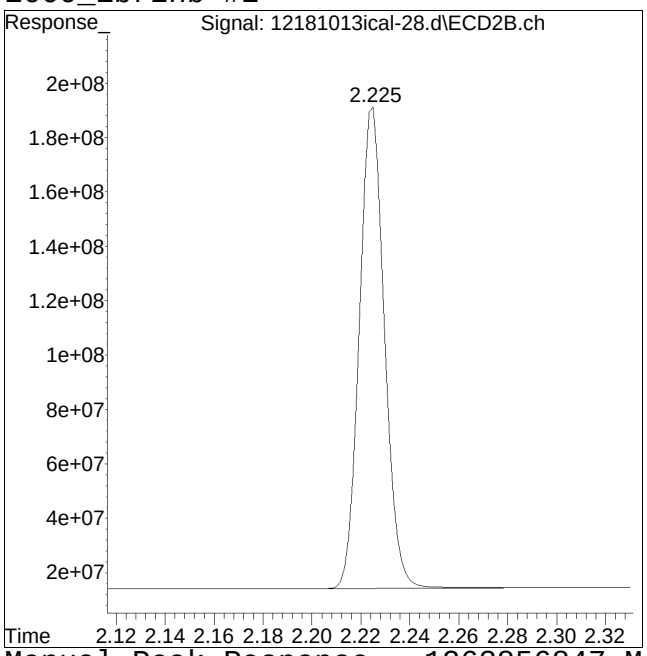
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-28.d
Date Inj'd : 10/13/2018 4:40 pm
Sample : il21660,42e,,8760

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:57 am

Compound #52: 1660_1br2nb #2





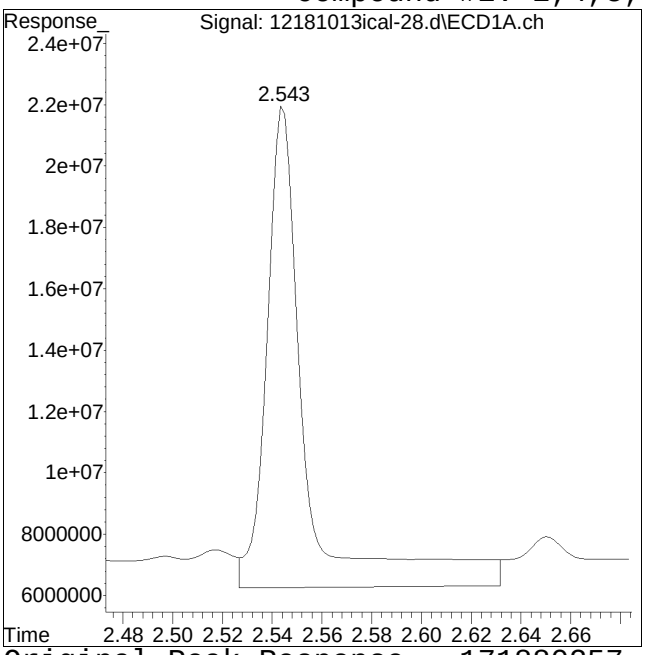
Original Peak Response = 1338751209 Manual Peak Response = 1263856847 M4
M4 = Poor automated baseline construction.

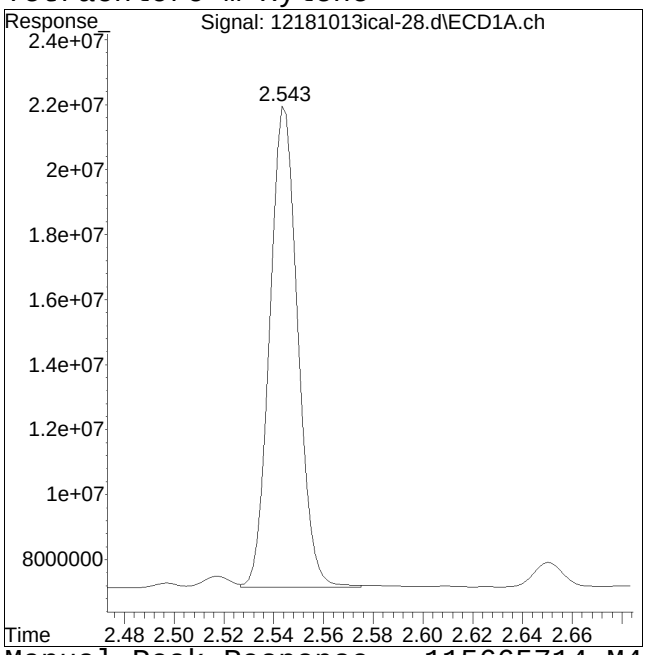
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-28.d
Date Inj'd : 10/13/2018 4:40 pm
Sample : il21660,42e,,8760

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:57 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene





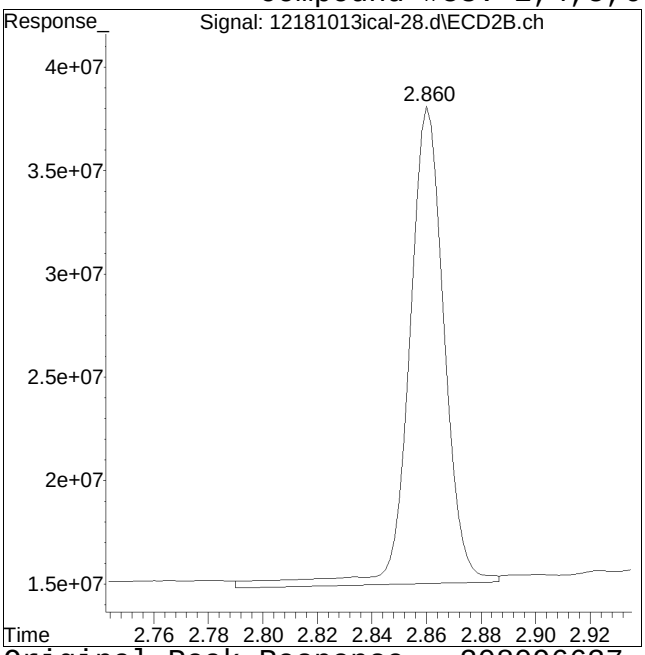
Original Peak Response = 171880257 Manual Peak Response = 115665714 M4
M4 = Poor automated baseline construction.

Manual Integration Report

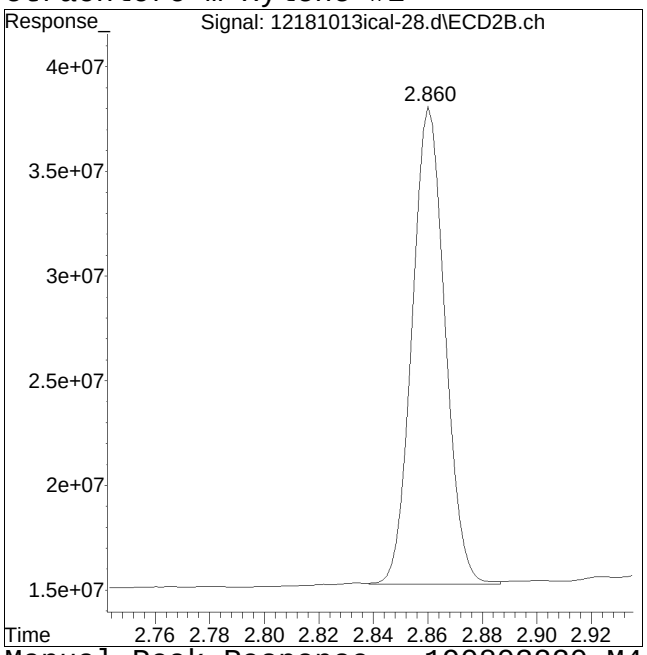
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-28.d
Date Inj'd : 10/13/2018 4:40 pm
Sample : il21660,42e,,8760

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:57 am

Compound #53: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 208096637



Manual Peak Response = 190803220 M4

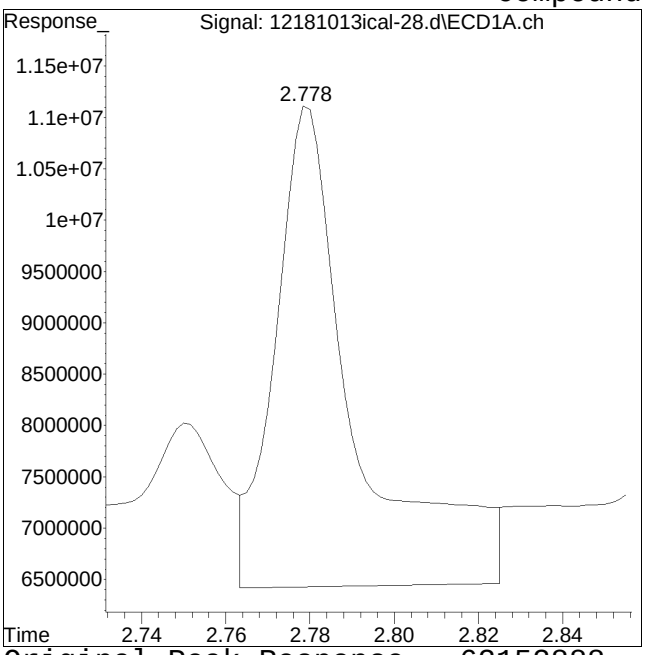
M4 = Poor automated baseline construction.

Manual Integration Report

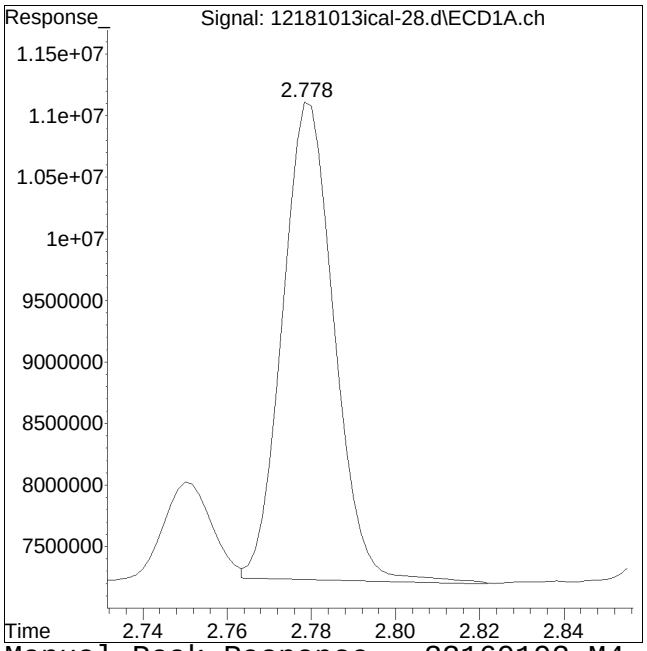
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-28.d
Date Inj'd : 10/13/2018 4:40 pm
Sample : il21660,42e,,8760

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:57 am

Compound #4: 1016-1



Original Peak Response = 62152888



Manual Peak Response = 33160192 M4

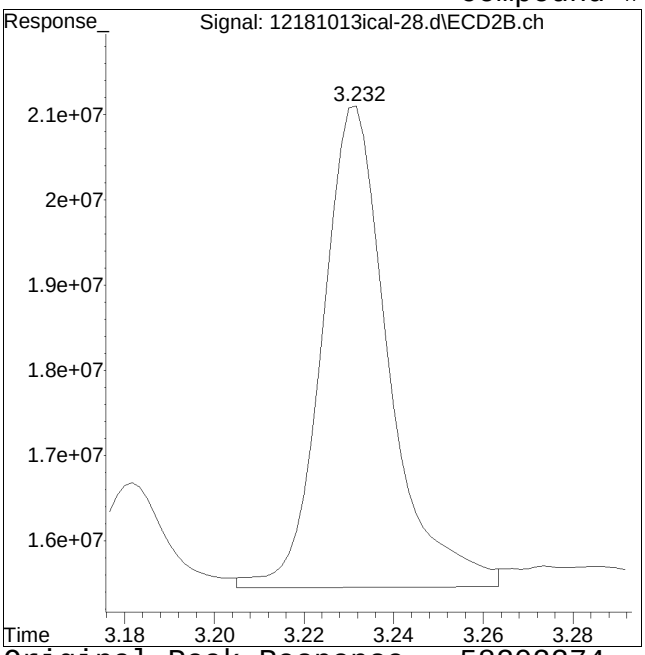
M4 = Poor automated baseline construction.

Manual Integration Report

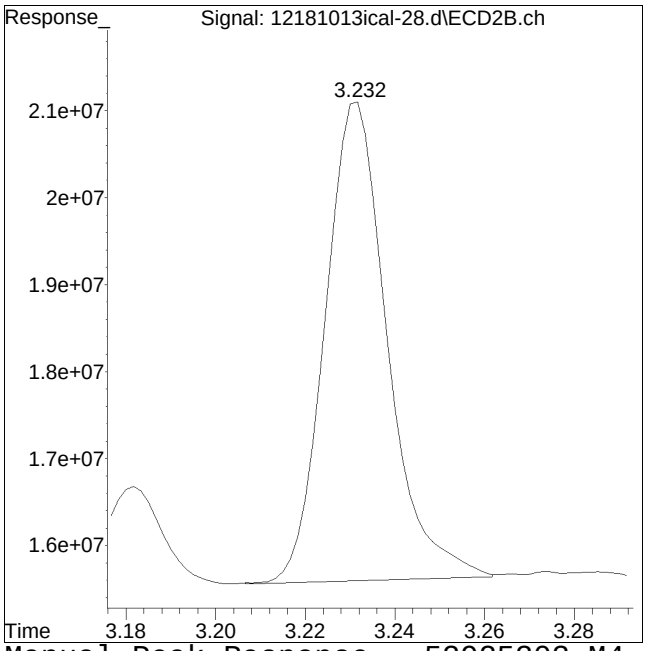
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-28.d
Date Inj'd : 10/13/2018 4:40 pm
Sample : il21660,42e,,8760

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:57 am

Compound #55: 1016-1 #2



Original Peak Response = 58202274



Manual Peak Response = 52925303 M4

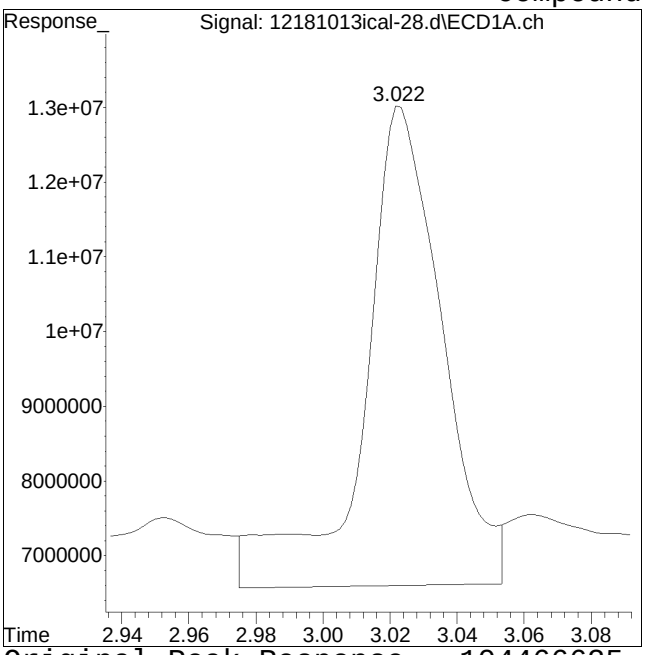
M4 = Poor automated baseline construction.

Manual Integration Report

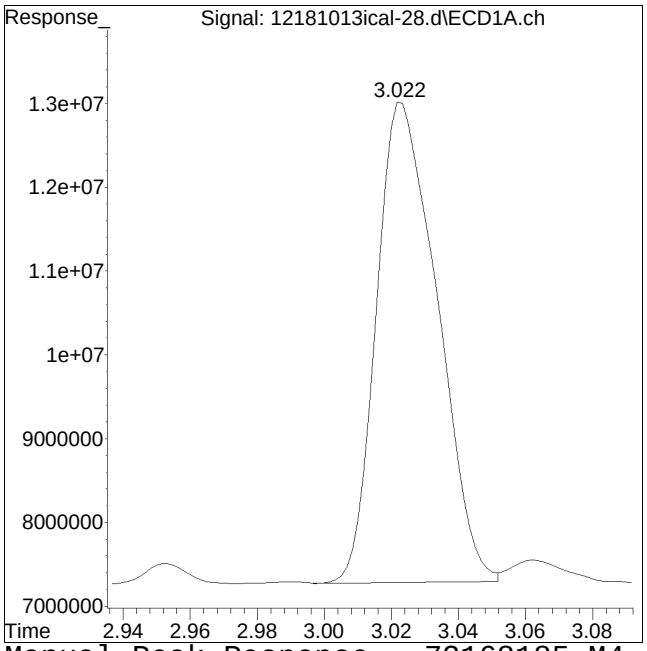
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-28.d
Date Inj'd : 10/13/2018 4:40 pm
Sample : il21660,42e,,8760

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:57 am

Compound #5: 1016-2



Original Peak Response = 104466625



Manual Peak Response = 72168185 M4

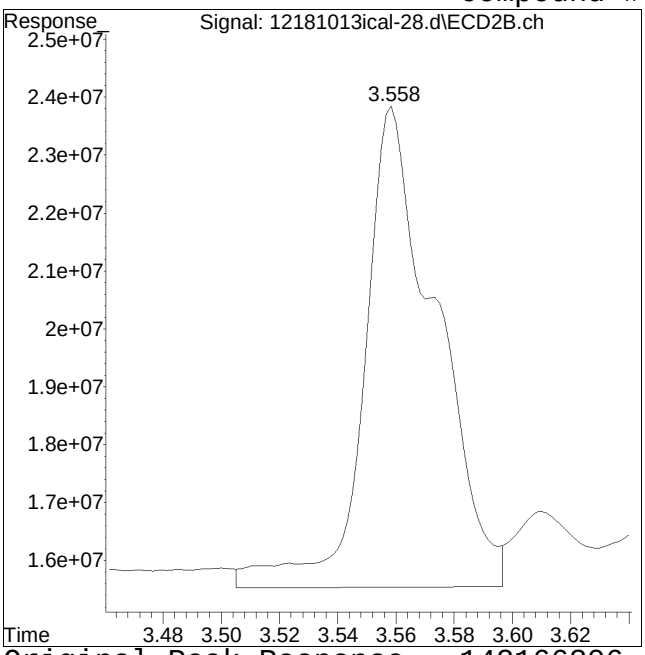
M4 = Poor automated baseline construction.

Manual Integration Report

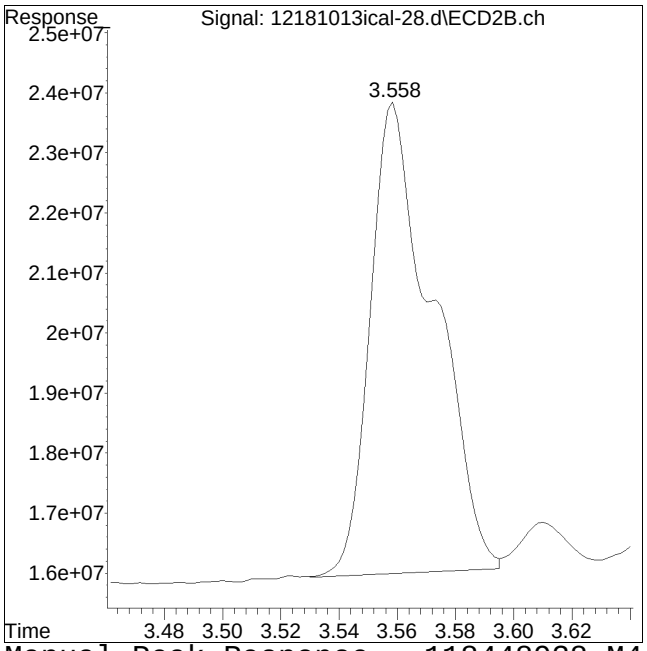
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-28.d
Date Inj'd : 10/13/2018 4:40 pm
Sample : il21660,42e,,8760

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:57 am

Compound #56: 1016-2 #2



Original Peak Response = 142166306



Manual Peak Response = 118448938 M4

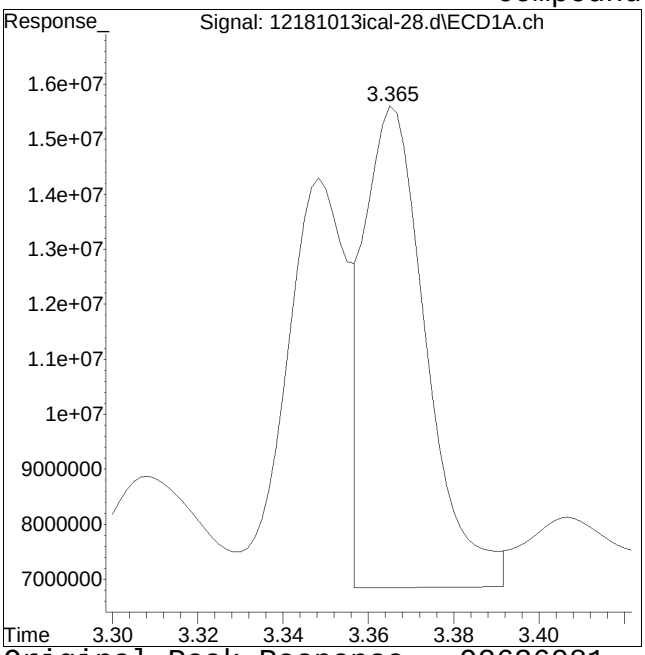
M4 = Poor automated baseline construction.

Manual Integration Report

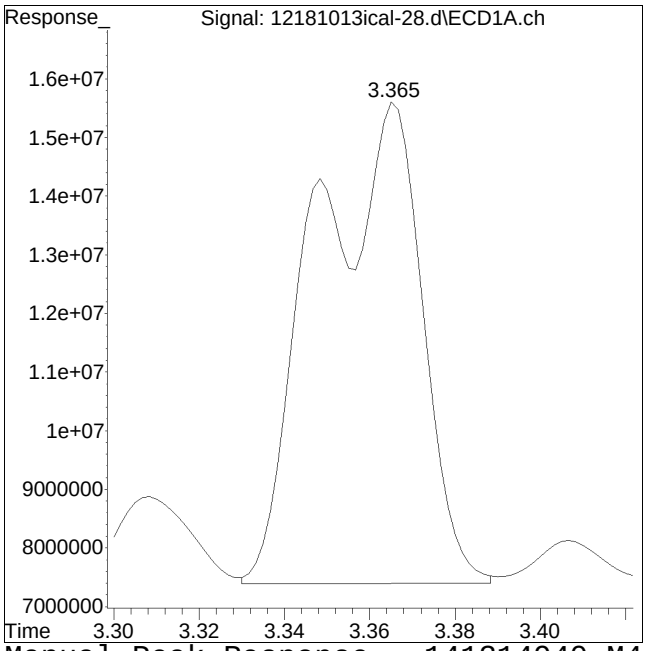
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-28.d
Date Inj'd : 10/13/2018 4:40 pm
Sample : il21660,42e,,8760

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:57 am

Compound #6: 1016-3



Original Peak Response = 92636081



Manual Peak Response = 141314940 M4

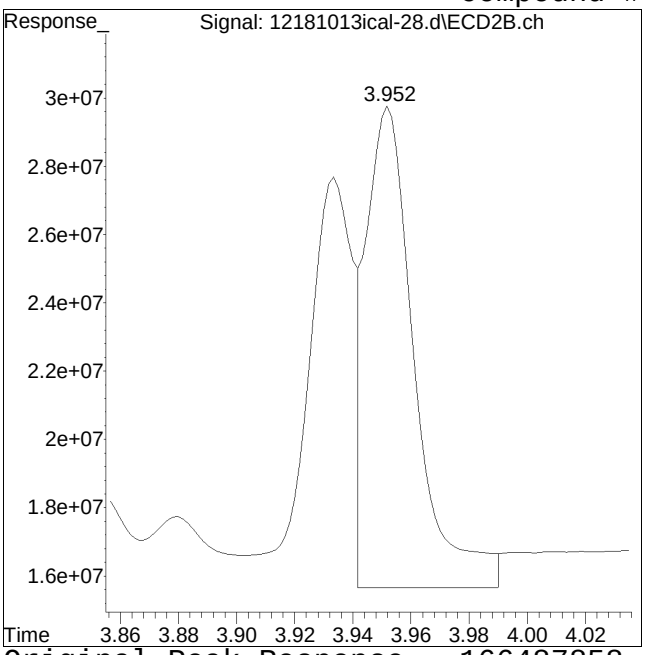
M4 = Poor automated baseline construction.

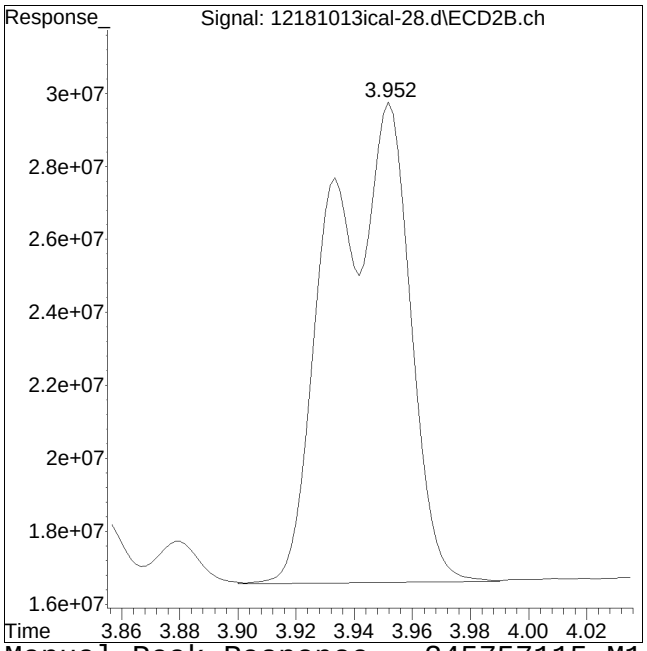
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-28.d
Date Inj'd : 10/13/2018 4:40 pm
Sample : il21660,42e,,8760

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:57 am

Compound #57: 1016-3 #2





Original Peak Response = 166487858 Manual Peak Response = 245757115 M1

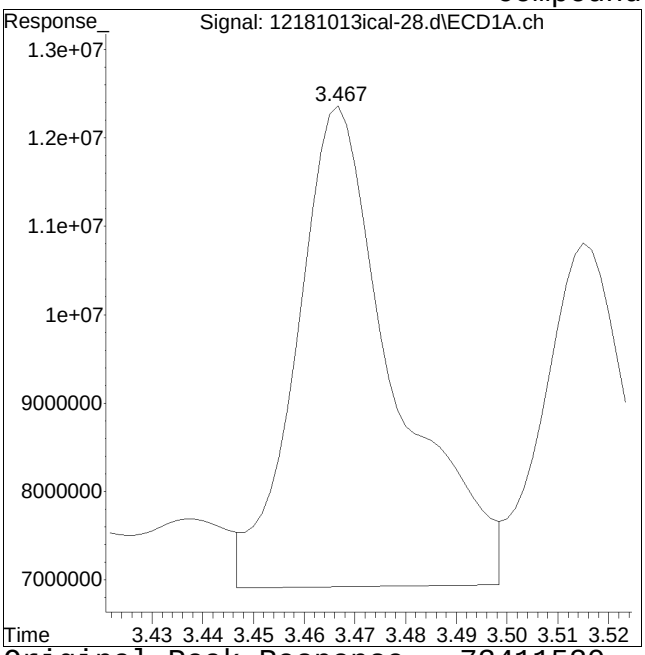
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

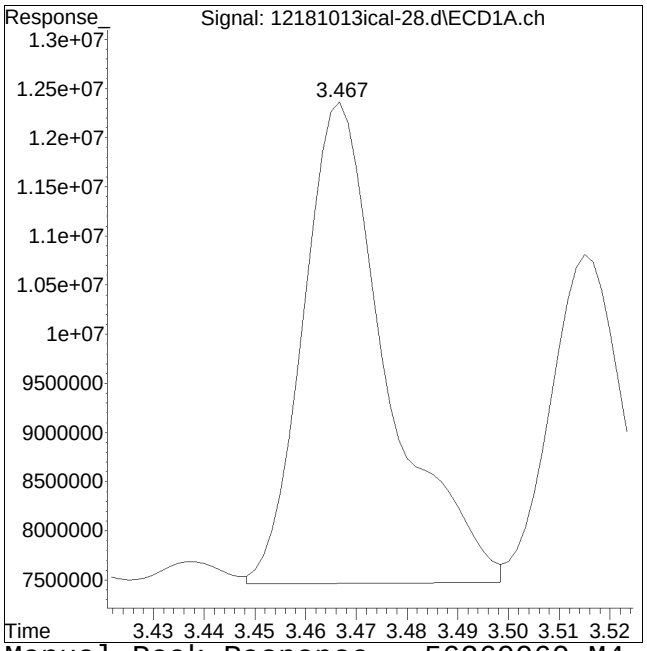
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-28.d
Date Inj'd : 10/13/2018 4:40 pm
Sample : il21660,42e,,8760

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:57 am

Compound #7: 1016-4



Original Peak Response = 73411530



Manual Peak Response = 56260060 M4

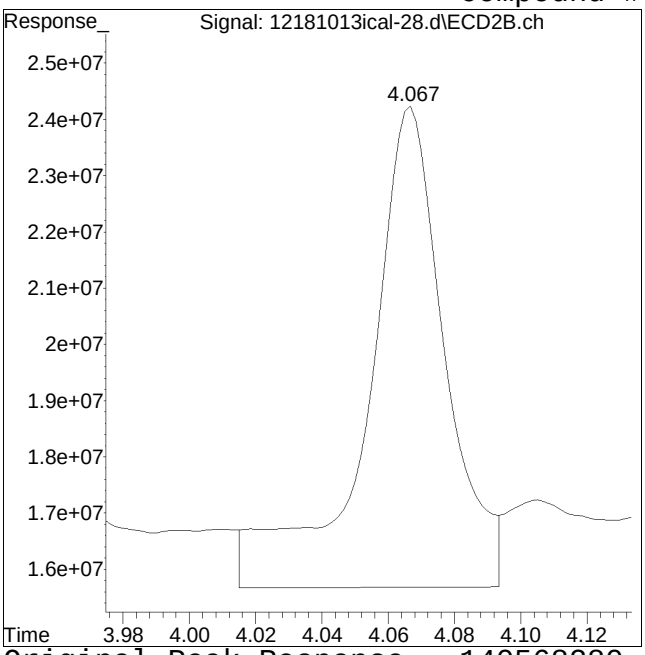
M4 = Poor automated baseline construction.

Manual Integration Report

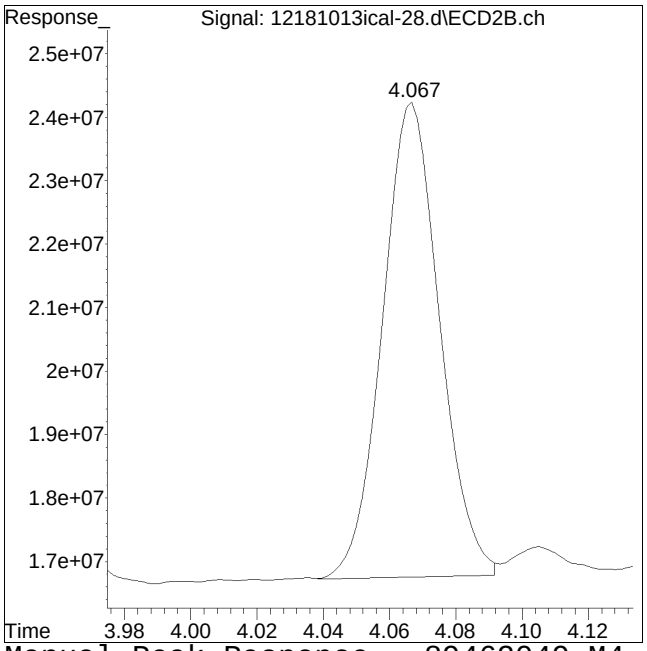
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-28.d
Date Inj'd : 10/13/2018 4:40 pm
Sample : il21660,42e,,8760

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:57 am

Compound #58: 1016-4 #2



Original Peak Response = 140568280



Manual Peak Response = 89462049 M4

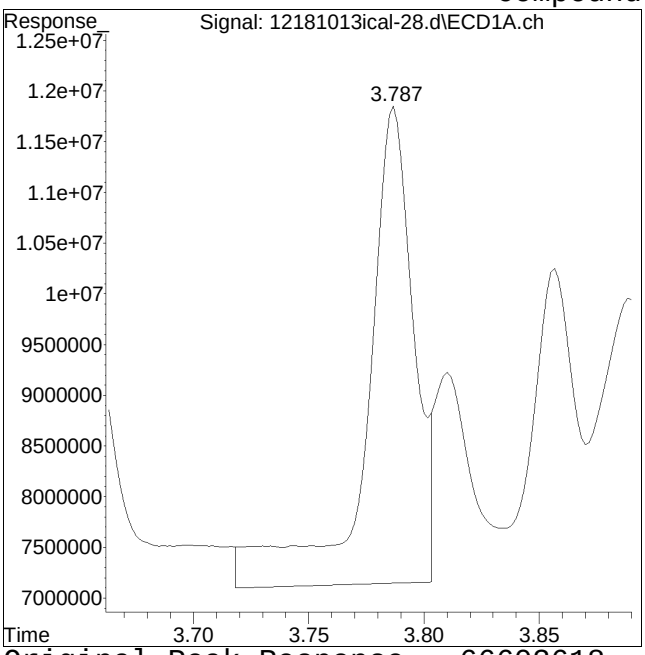
M4 = Poor automated baseline construction.

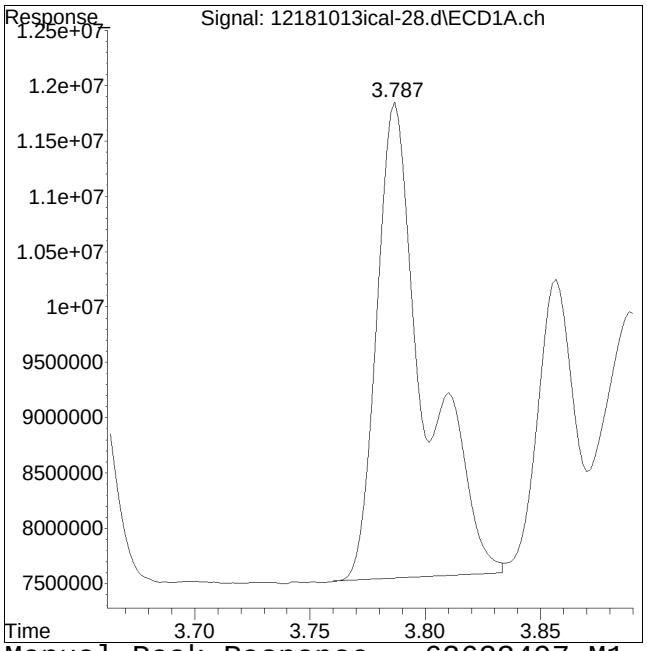
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-28.d
Date Inj'd : 10/13/2018 4:40 pm
Sample : il21660,42e,,8760

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:57 am

Compound #8: 1016-5





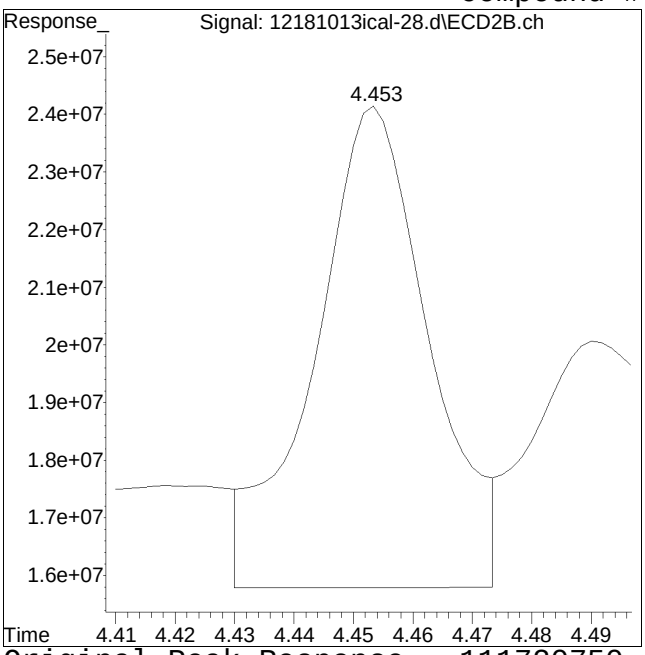
Original Peak Response = 66603618 Manual Peak Response = 62633497 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

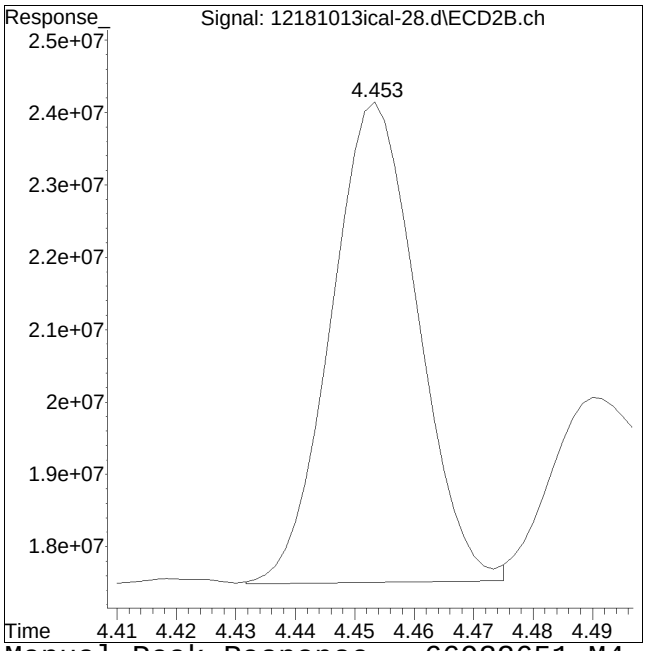
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-28.d
Date Inj'd : 10/13/2018 4:40 pm
Sample : il21660,42e,,8760

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:57 am

Compound #59: 1016-5 #2



Original Peak Response = 111720750



Manual Peak Response = 66932651 M4

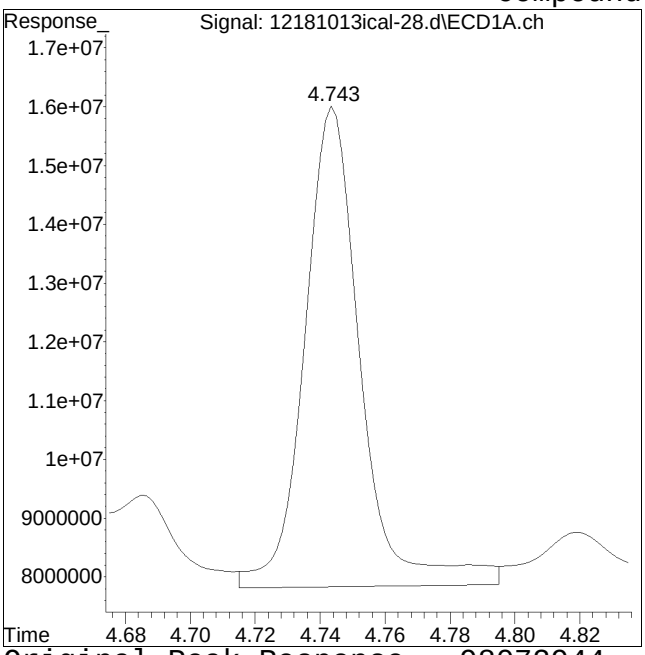
M4 = Poor automated baseline construction.

Manual Integration Report

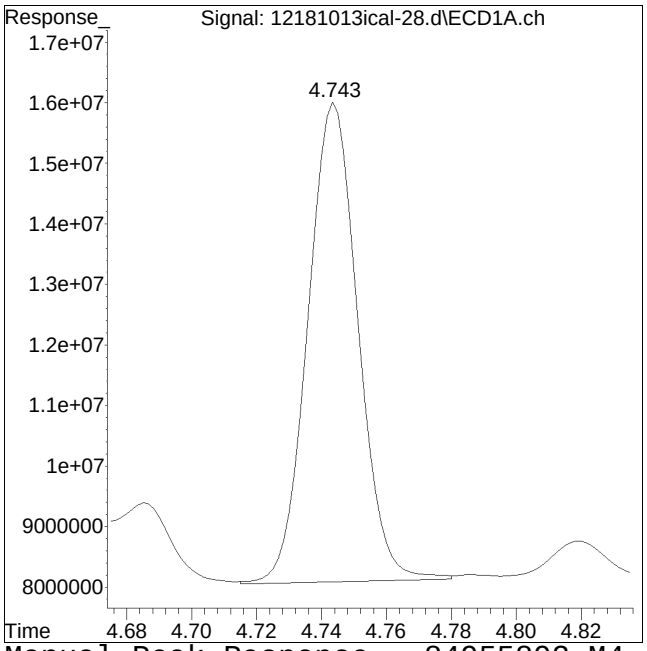
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-28.d
Date Inj'd : 10/13/2018 4:40 pm
Sample : il21660,42e,,8760

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:57 am

Compound #9: 1260-1



Original Peak Response = 98072944



Manual Peak Response = 84955892 M4

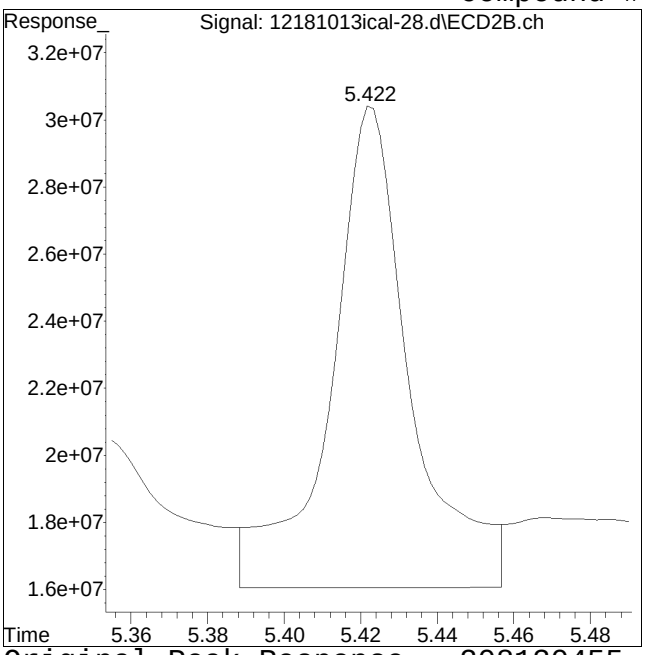
M4 = Poor automated baseline construction.

Manual Integration Report

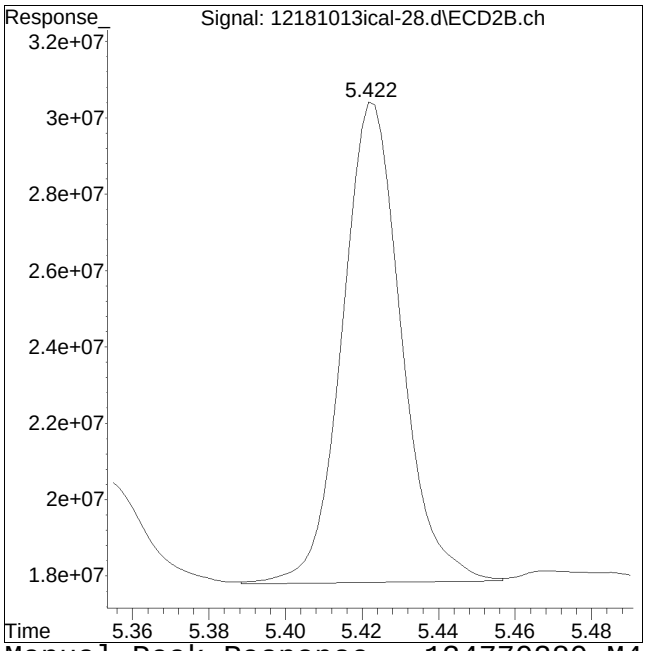
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-28.d
Date Inj'd : 10/13/2018 4:40 pm
Sample : il21660,42e,,8760

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:57 am

Compound #60: 1260-1 #2



Original Peak Response = 208130455



Manual Peak Response = 134770280 M4

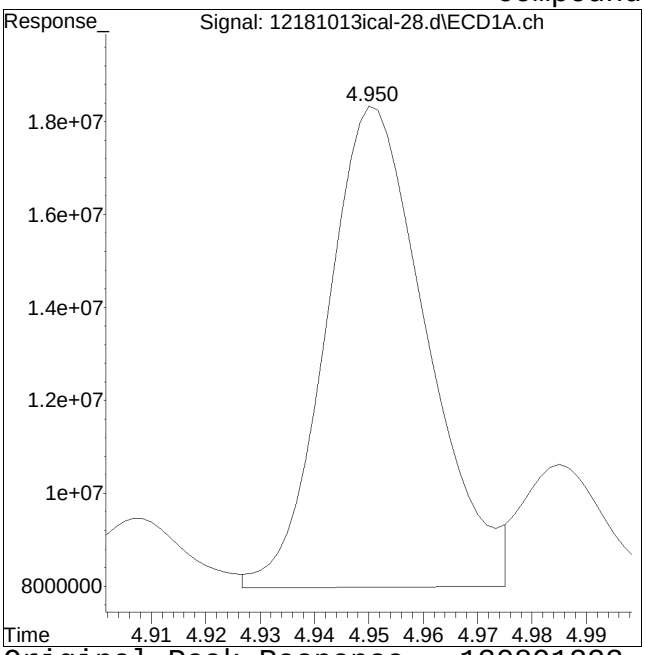
M4 = Poor automated baseline construction.

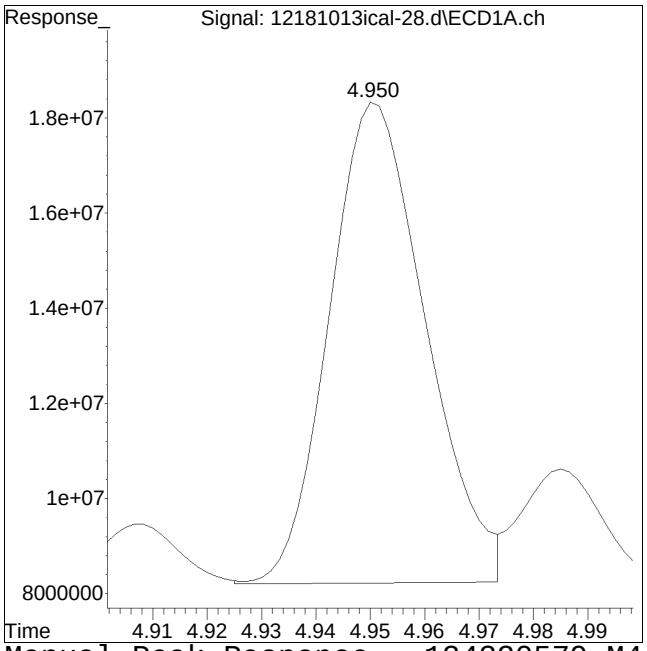
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-28.d
Date Inj'd : 10/13/2018 4:40 pm
Sample : il21660,42e,,8760

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:57 am

Compound #10: 1260-2





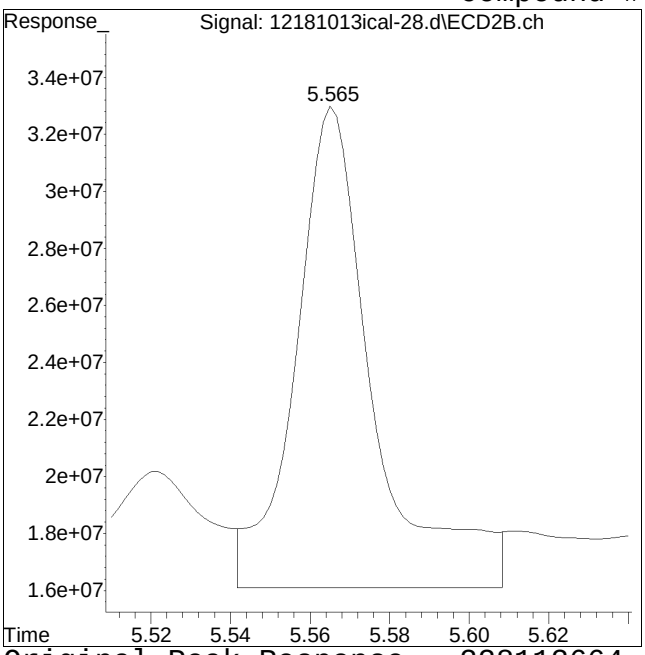
Original Peak Response = 130891223 Manual Peak Response = 124320579 M4
M4 = Poor automated baseline construction.

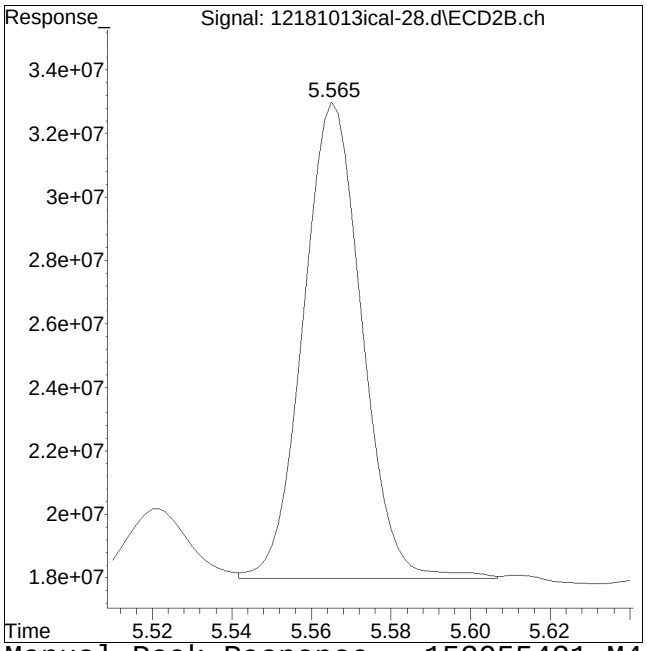
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-28.d
Date Inj'd : 10/13/2018 4:40 pm
Sample : il21660,42e,,8760

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:57 am

Compound #61: 1260-2 #2





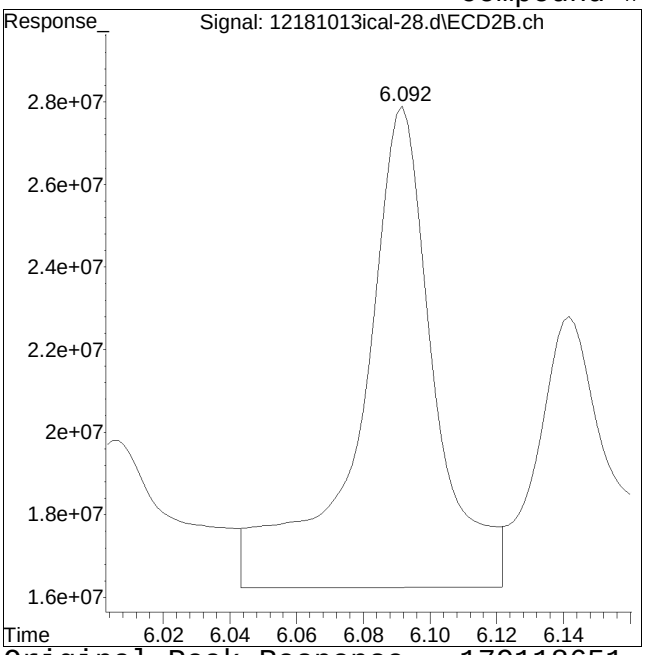
Original Peak Response = 228112664 Manual Peak Response = 153955421 M4
M4 = Poor automated baseline construction.

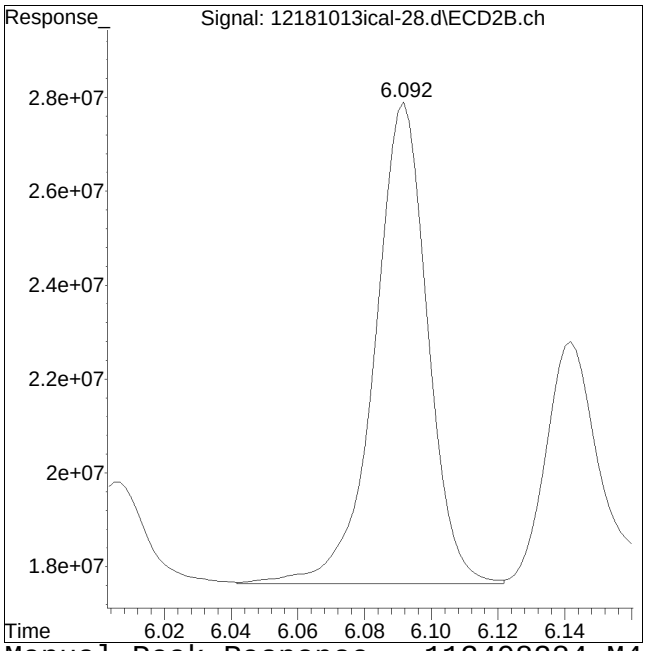
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-28.d
Date Inj'd : 10/13/2018 4:40 pm
Sample : il21660,42e,,8760

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:57 am

Compound #62: 1260-3 #2





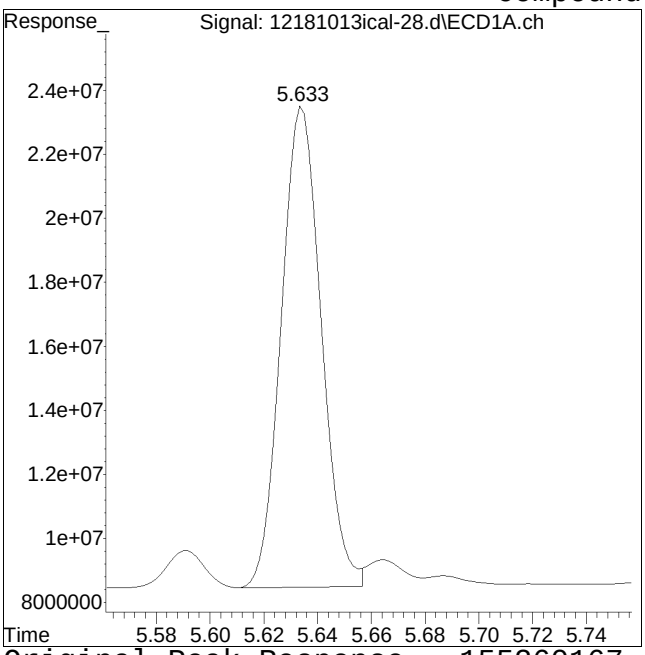
Original Peak Response = 179118651 Manual Peak Response = 113408284 M4
M4 = Poor automated baseline construction.

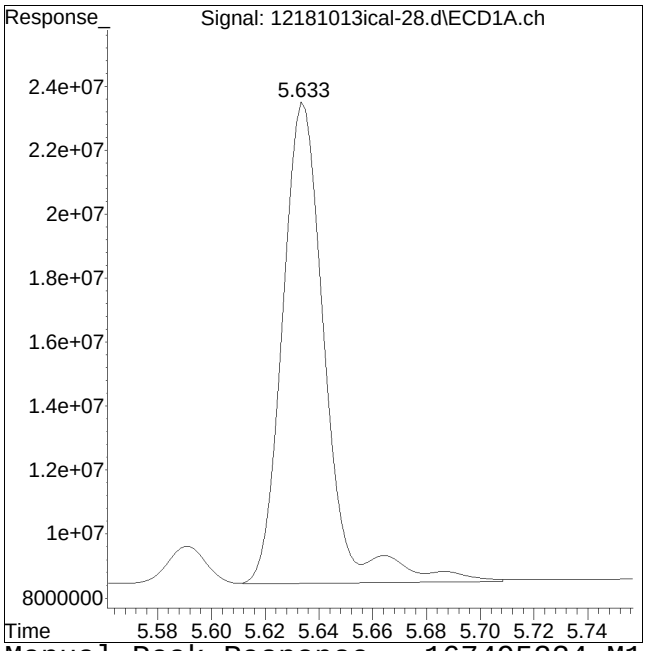
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-28.d
Date Inj'd : 10/13/2018 4:40 pm
Sample : il21660,42e,,8760

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:57 am

Compound #12: 1260-4





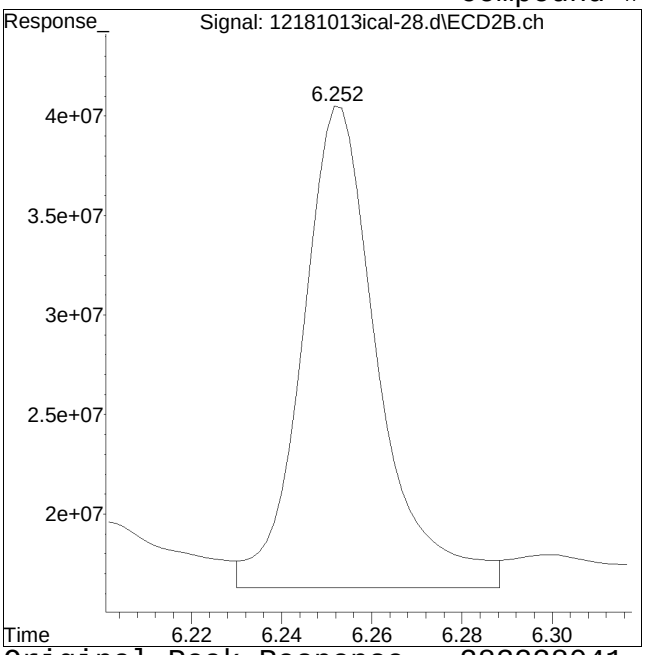
Original Peak Response = 155260167 Manual Peak Response = 167495224 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

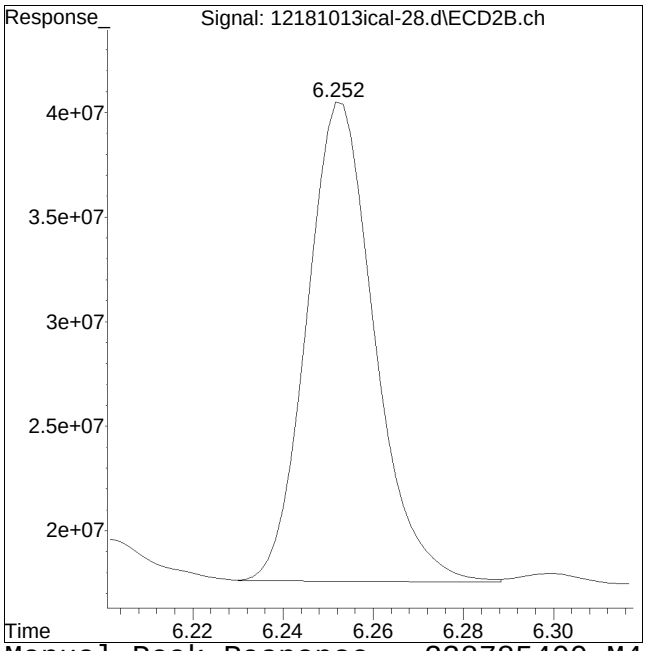
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-28.d
Date Inj'd : 10/13/2018 4:40 pm
Sample : il21660,42e,,8760

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:57 am

Compound #63: 1260-4 #2





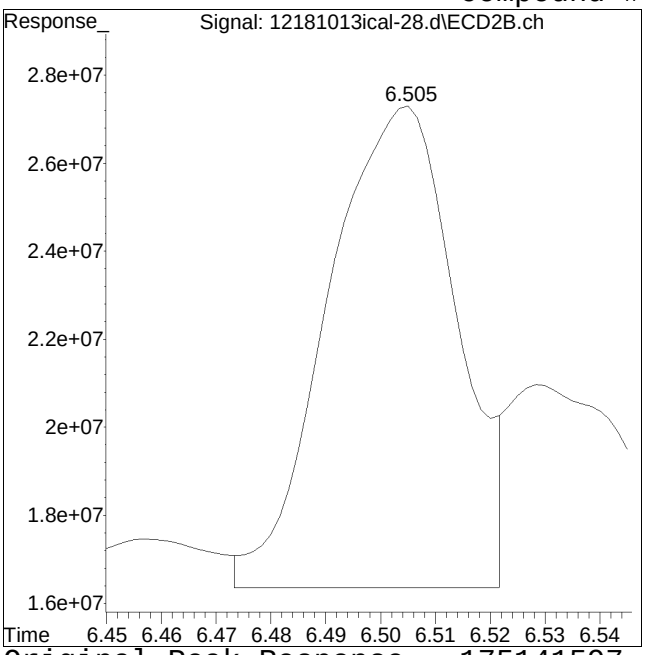
Original Peak Response = 283238041 Manual Peak Response = 238785400 M4
M4 = Poor automated baseline construction.

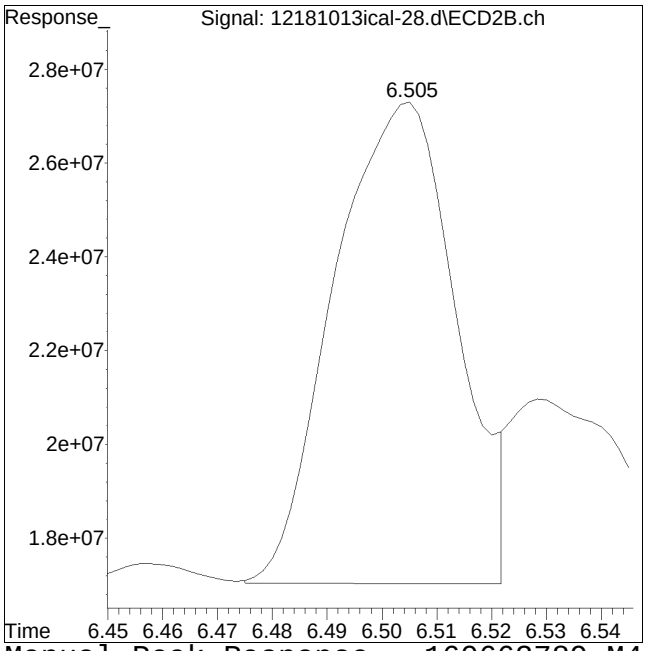
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-28.d
Date Inj'd : 10/13/2018 4:40 pm
Sample : il21660,42e,,8760

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:57 am

Compound #64: 1260-5 #2





Original Peak Response = 175141597 Manual Peak Response = 160663789 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-29.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 4:53 pm
Operator : Pest12:kb
Sample : il31660,42e,,8759
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 08:57:04 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 08:53:27 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	2.069	2.224	739.5E6	1132.4E6	250.000M4	250.000M4
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.544	2.860	200.9E6	333.3E6	67.934	69.190M4
	Spiked Amount 500.000	Range 30 - 150		Recovery =		13.59%#	13.84%#
3) s	Decachlorobi	6.565	7.277	241.1E6	387.3E6	136.347	135.376M4
	Spiked Amount 500.000	Range 30 - 150		Recovery =		27.27%#	27.08%#
	Target Compounds						
4) l1	1016-1	2.780	3.231	58640523	92969043	1182.661	1140.993M4
5) l1	1016-2	3.024	3.558	121.8E6	203.3E6	1143.914	1119.753M4
6) l1	1016-3	3.366	3.952	242.5E6	422.4E6	1112.806	1122.730M1
7) l1	1016-4	3.467	4.066	100.7E6	160.0E6	1092.753	1123.234M4
8) l1	1016-5	3.787	4.453	106.0E6	121.9E6	1096.940	1095.082M4
	Sum 1016-1			629.6E6	1000.6E6	5629.075	5601.791
	Average 1016-1					1125.815	1120.358
9) l2	1260-1	4.744	5.422	142.5E6	228.9E6	1108.206	1114.903M4
10) l2	1260-2	4.951	5.565	212.3E6	266.9E6	1112.838	1103.530M4
11) l2	1260-3	5.418	6.091	127.5E6	199.2E6	1070.494	1109.204M4
12) l2	1260-4	5.634	6.252	285.7E6	421.0E6	1045.397	1074.929M4
13) l2	1260-5	5.833	6.504	190.1E6	287.1E6	1068.634	1093.672M4
	Sum 1260-1			958.1E6	1403.0E6	NoCal	NoCal D
	Average 1260-1					1081.114	1099.248
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-29.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 4:53 pm
Operator : Pest12:kb
Sample : il31660,42e,,8759
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 08:57:04 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 08:53:27 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-29.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 4:53 pm
Operator : Pest12:kb
Sample : il31660,42e,,8759
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 08:57:04 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 08:53:27 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

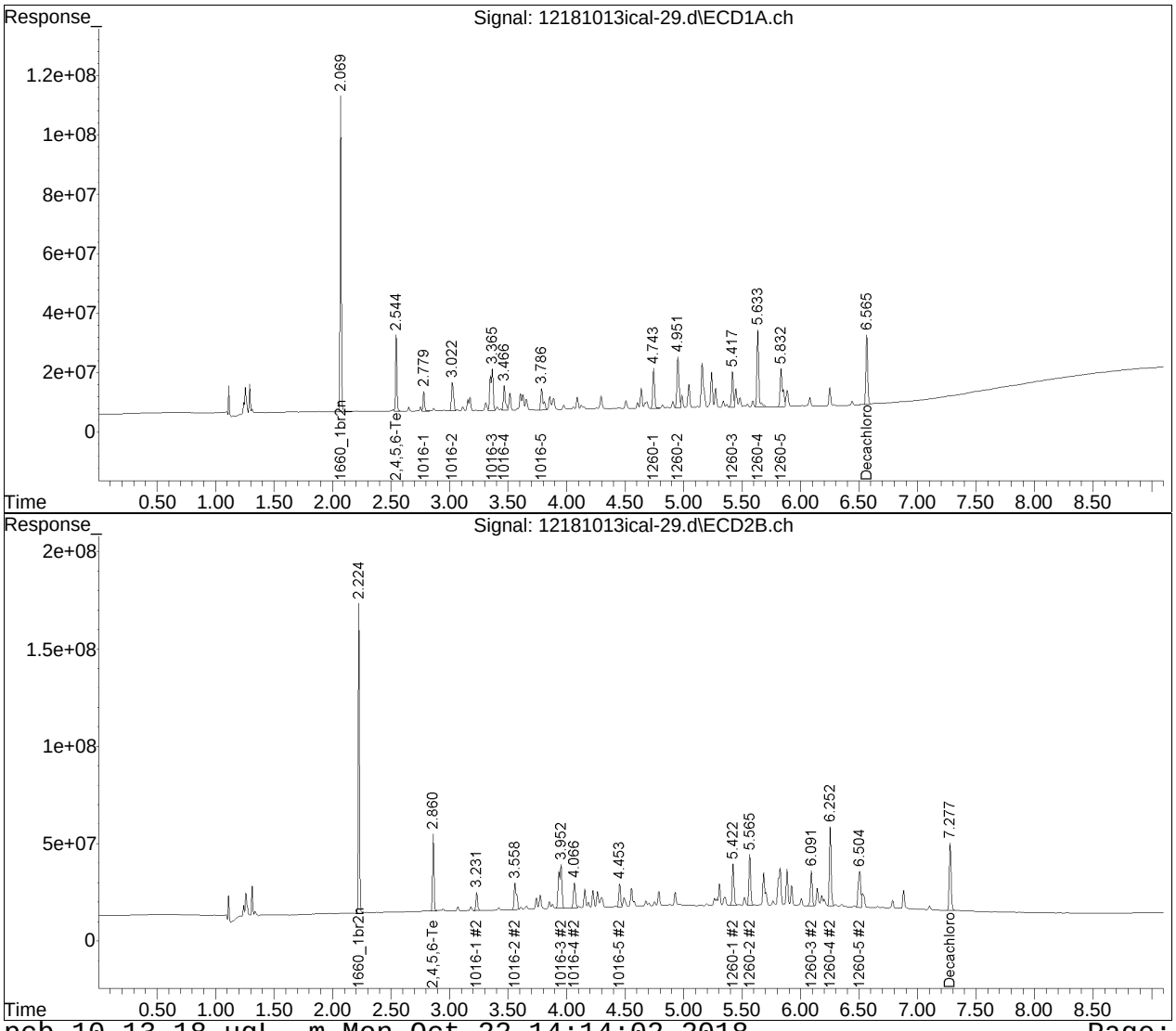
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-29.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 4:53 pm
Operator : Pest12:kb
Sample : il31660,42e,,8759
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 08:57:04 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 08:53:27 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

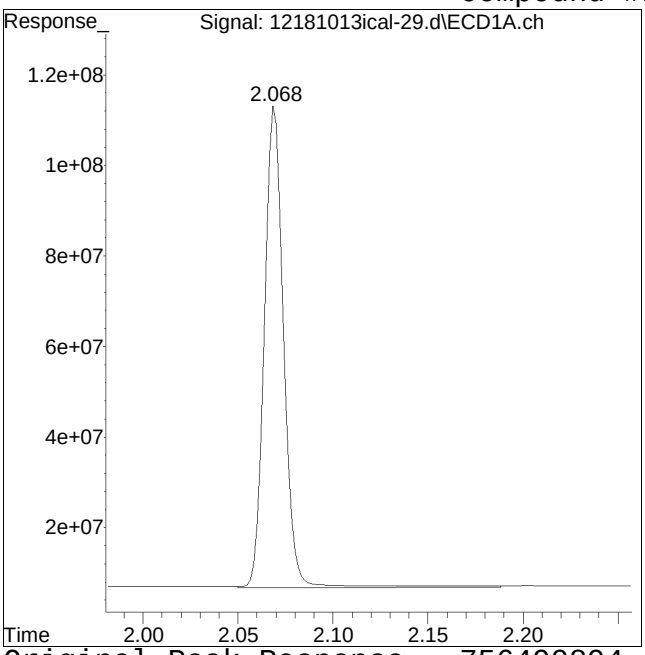


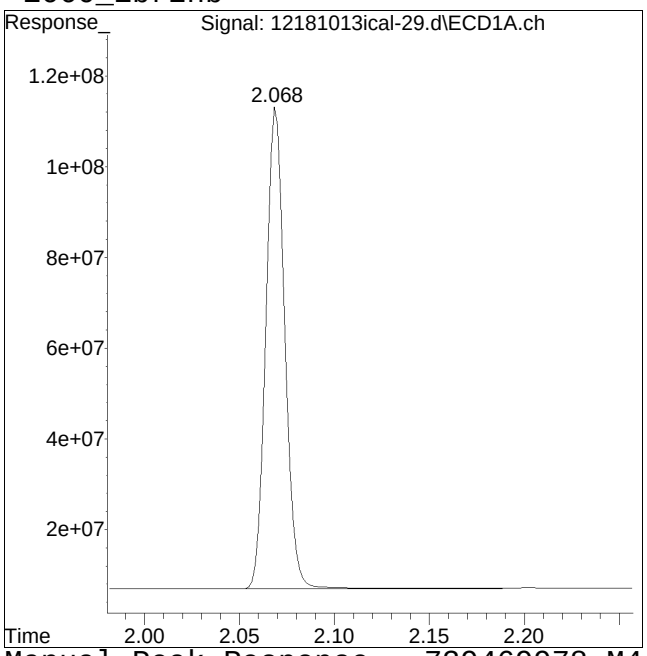
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-29.d
Date Inj'd : 10/13/2018 4:53 pm
Sample : il31660,42e,,8759

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:53 am

Compound #1: 1660_1br2nb





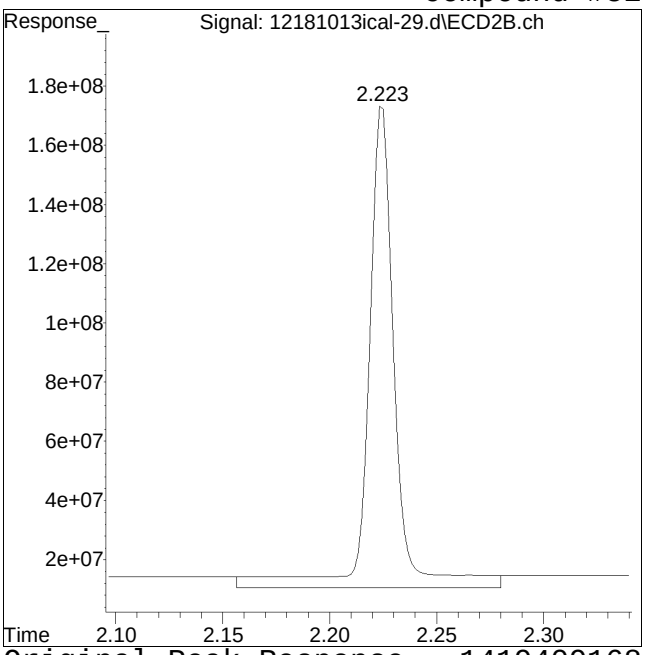
Original Peak Response = 756490894 Manual Peak Response = 739469978 M4
M4 = Poor automated baseline construction.

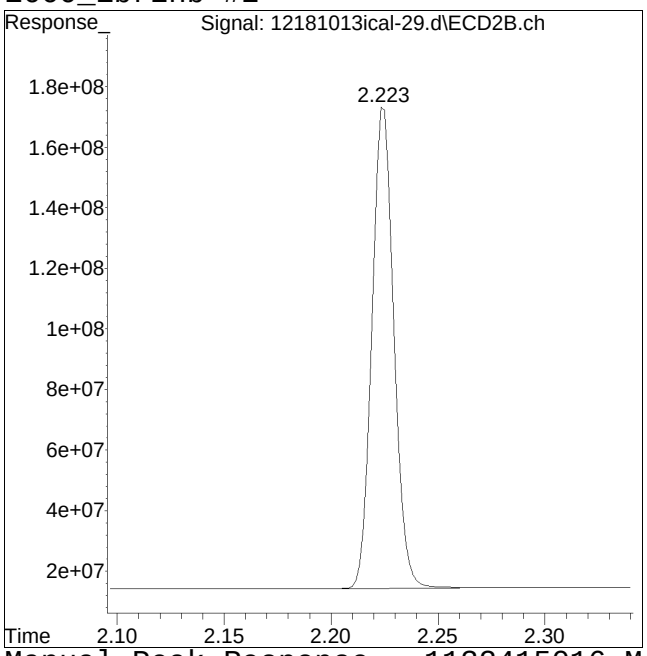
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-29.d
Date Inj'd : 10/13/2018 4:53 pm
Sample : il31660,42e,,8759

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:53 am

Compound #52: 1660_1br2nb #2





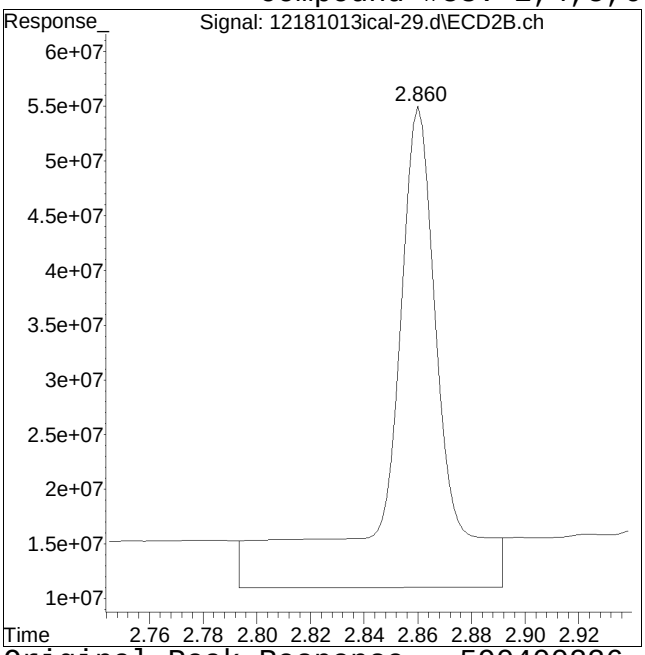
Original Peak Response = 1419409168 Manual Peak Response = 1132415016 M4
M4 = Poor automated baseline construction.

Manual Integration Report

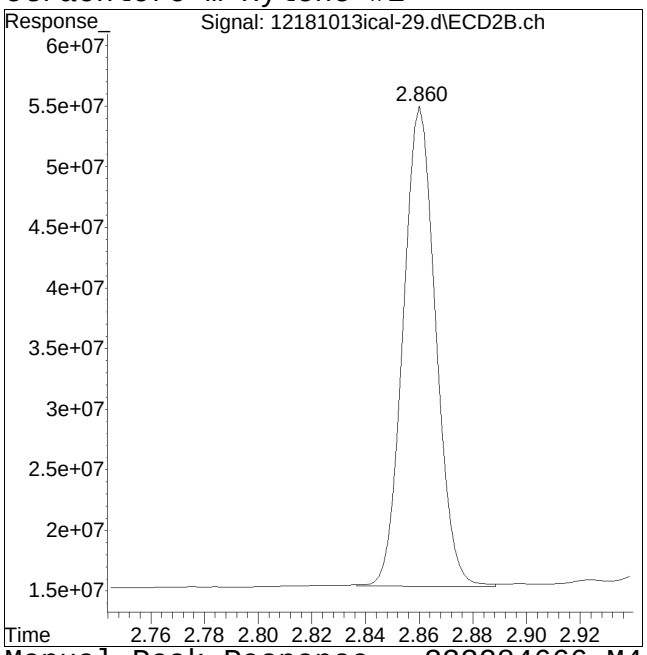
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-29.d
Date Inj'd : 10/13/2018 4:53 pm
Sample : il31660,42e,,8759

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:53 am

Compound #53: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 590400226



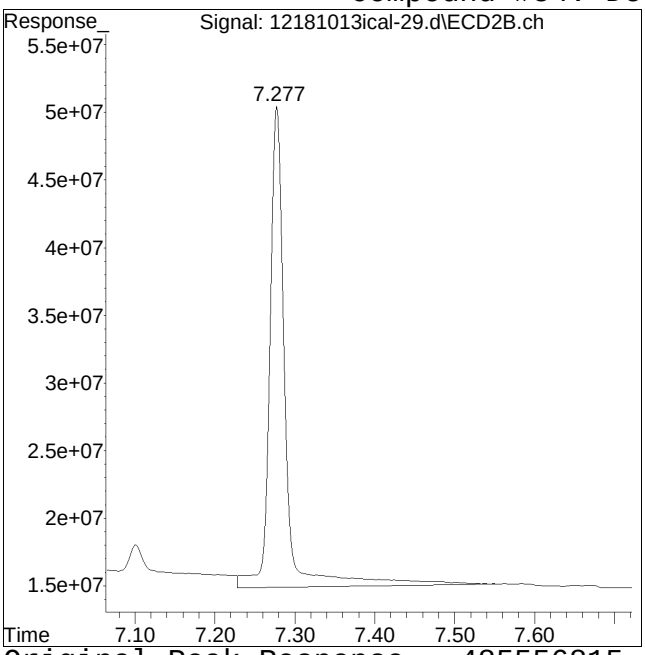
Manual Peak Response = 333284666 M4

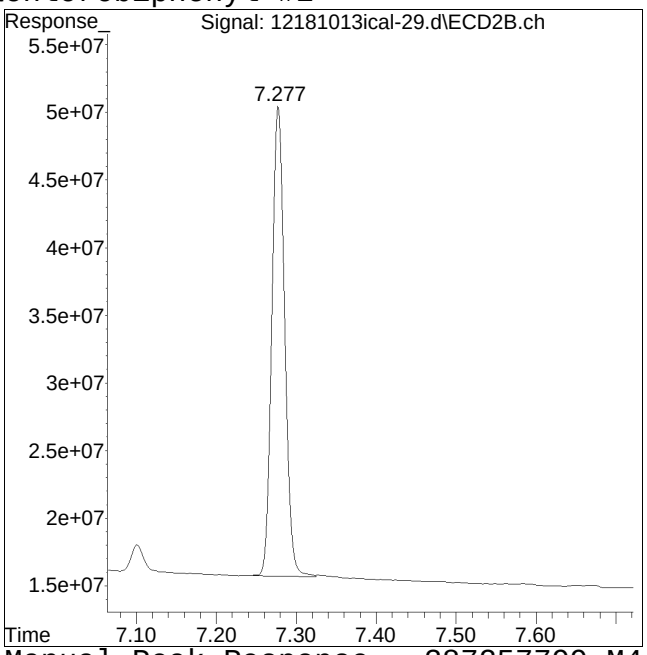
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest12\181013ical\ QMethod : P12_pcb_10-13-18_ugL_.m
Data File : 12181013ical-29.d Operator : Pest12:kb
Date Inj'd : 10/13/2018 4:53 pm Instrument : Pest 12
Sample : il31660,42e,,8759 Quant Date : 10/16/2018 8:53 am

Compound #54: Decachlorobiphenyl #2





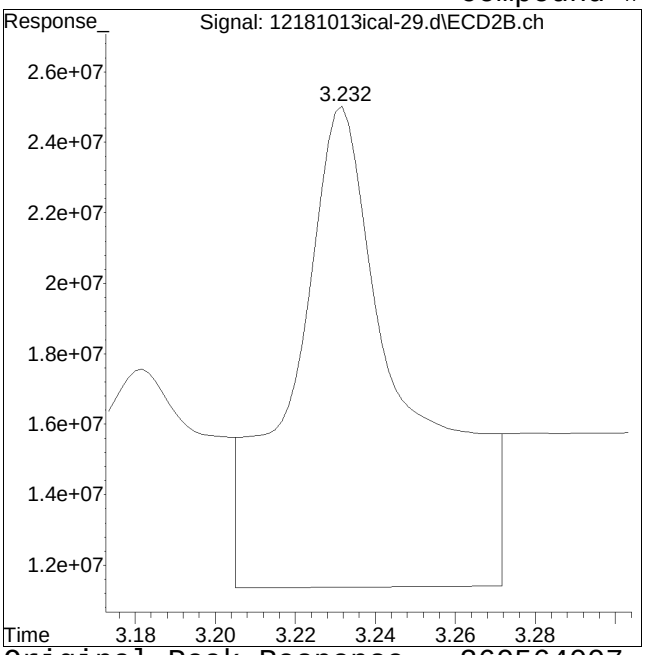
Original Peak Response = 485556815 Manual Peak Response = 387257799 M4
M4 = Poor automated baseline construction.

Manual Integration Report

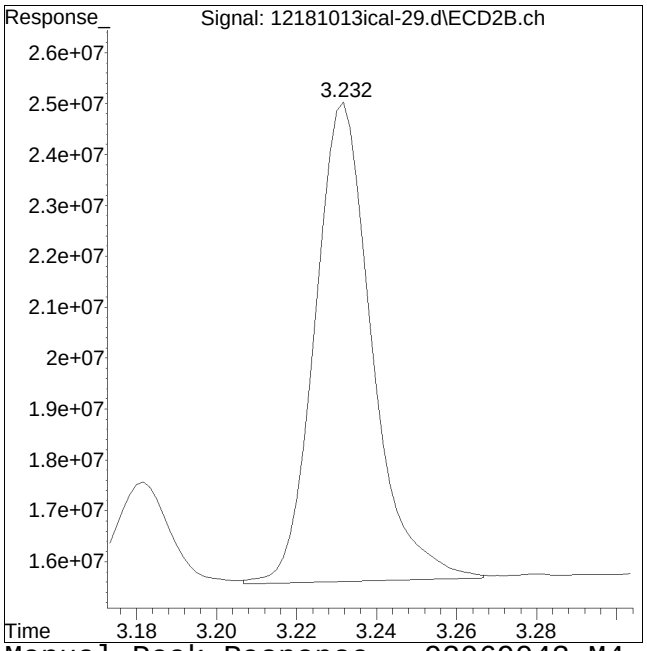
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-29.d
Date Inj'd : 10/13/2018 4:53 pm
Sample : il31660,42e,,8759

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:53 am

Compound #55: 1016-1 #2



Original Peak Response = 260564007



Manual Peak Response = 92969043 M4

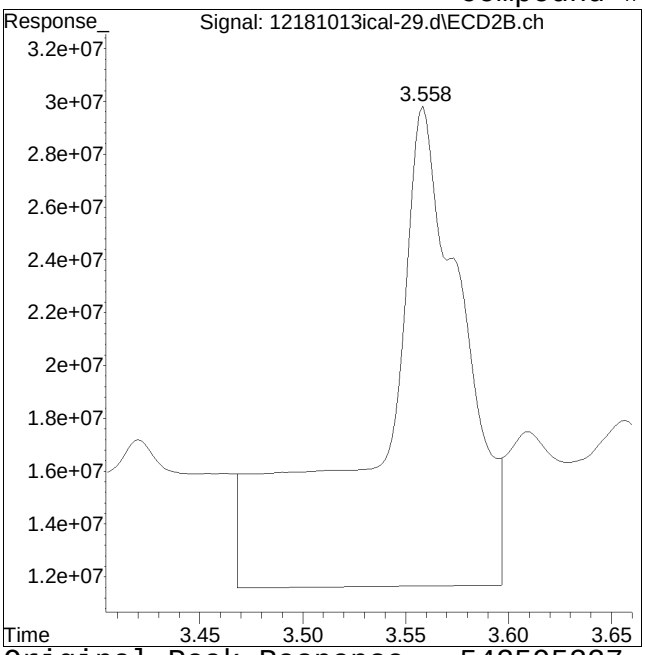
M4 = Poor automated baseline construction.

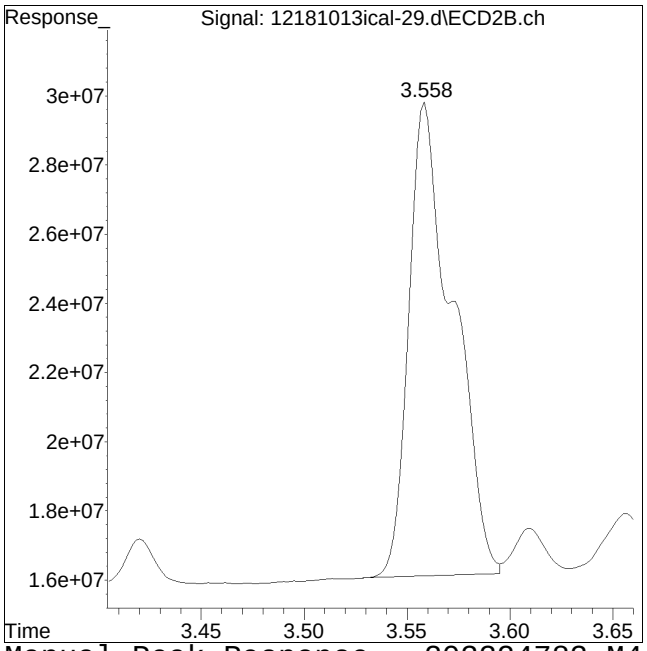
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-29.d
Date Inj'd : 10/13/2018 4:53 pm
Sample : il31660,42e,,8759

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:53 am

Compound #56: 1016-2 #2





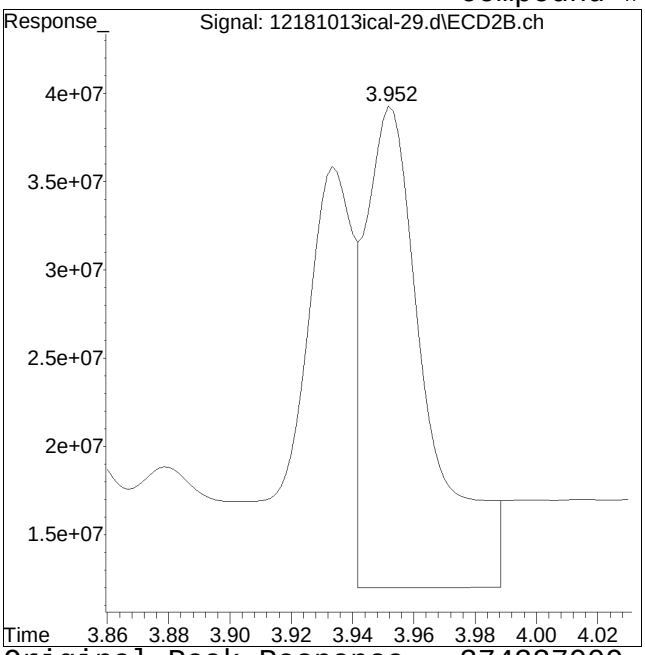
Original Peak Response = 542595327 Manual Peak Response = 203324783 M4
M4 = Poor automated baseline construction.

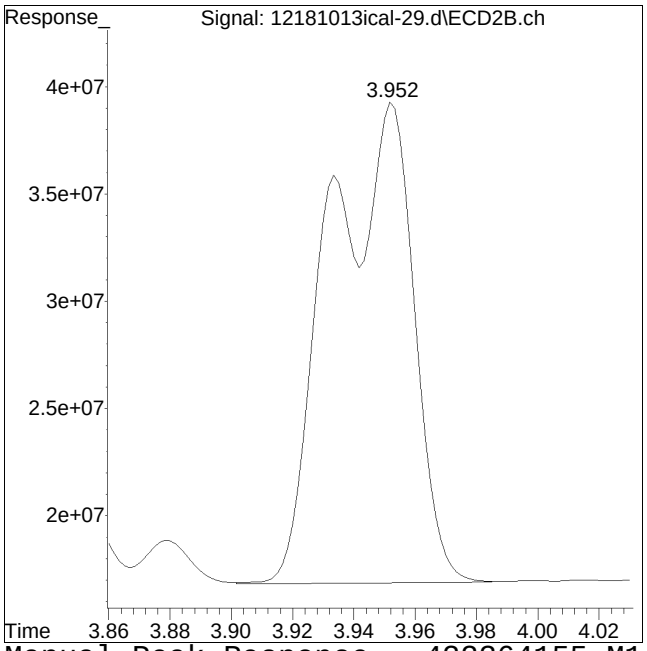
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-29.d
Date Inj'd : 10/13/2018 4:53 pm
Sample : il31660,42e,,8759

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:53 am

Compound #57: 1016-3 #2





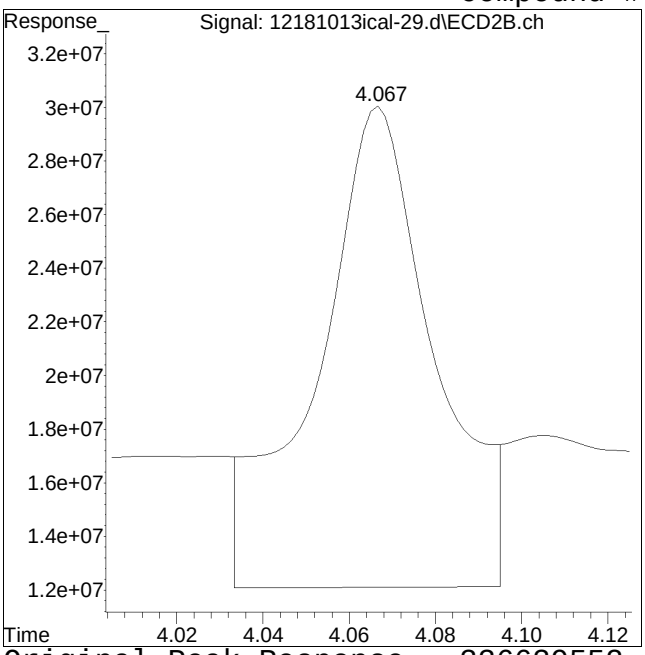
Original Peak Response = 374337909 Manual Peak Response = 422364155 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

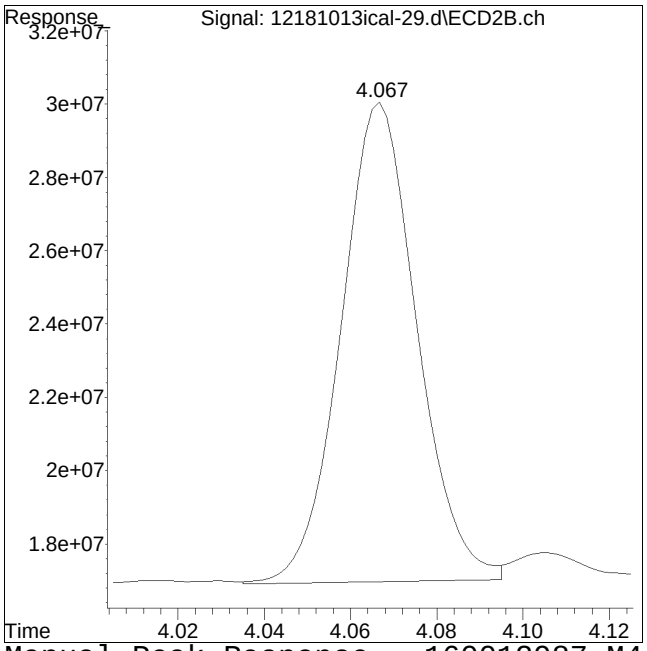
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-29.d
Date Inj'd : 10/13/2018 4:53 pm
Sample : il31660,42e,,8759

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:53 am

Compound #58: 1016-4 #2





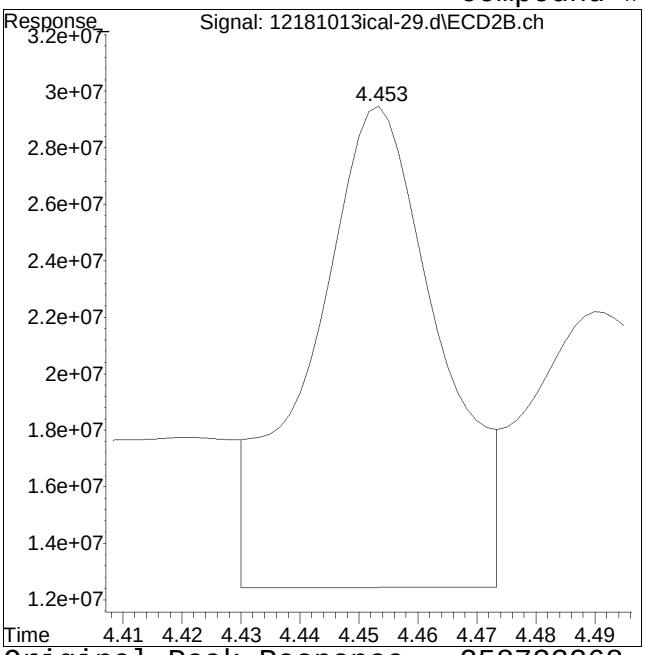
Original Peak Response = 336639552 Manual Peak Response = 160012987 M4
M4 = Poor automated baseline construction.

Manual Integration Report

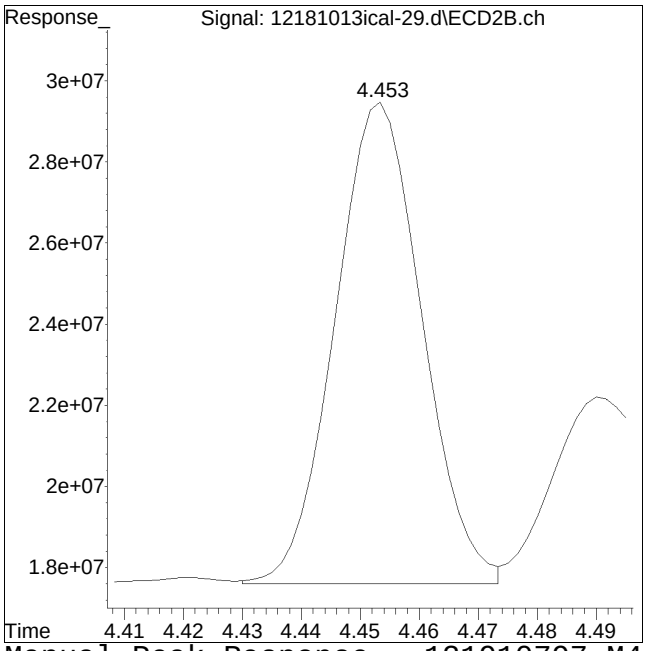
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-29.d
Date Inj'd : 10/13/2018 4:53 pm
Sample : il31660,42e,,8759

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:53 am

Compound #59: 1016-5 #2



Original Peak Response = 258733368



Manual Peak Response = 121910797 M4

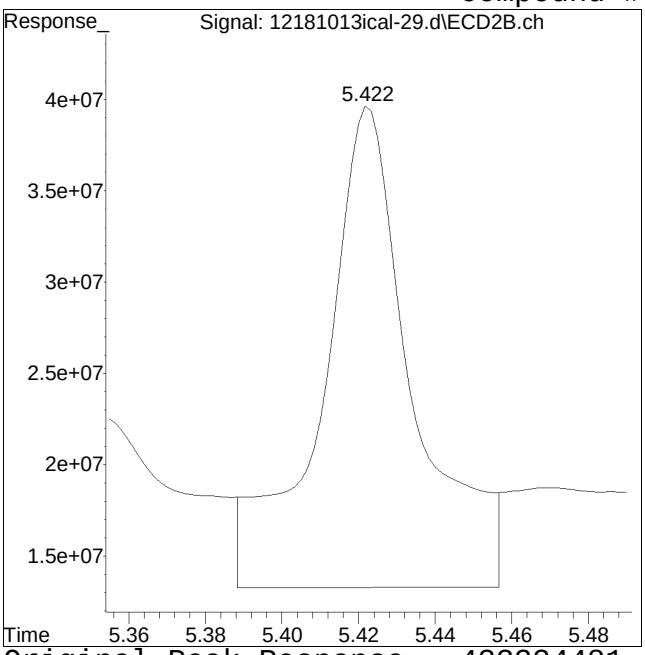
M4 = Poor automated baseline construction.

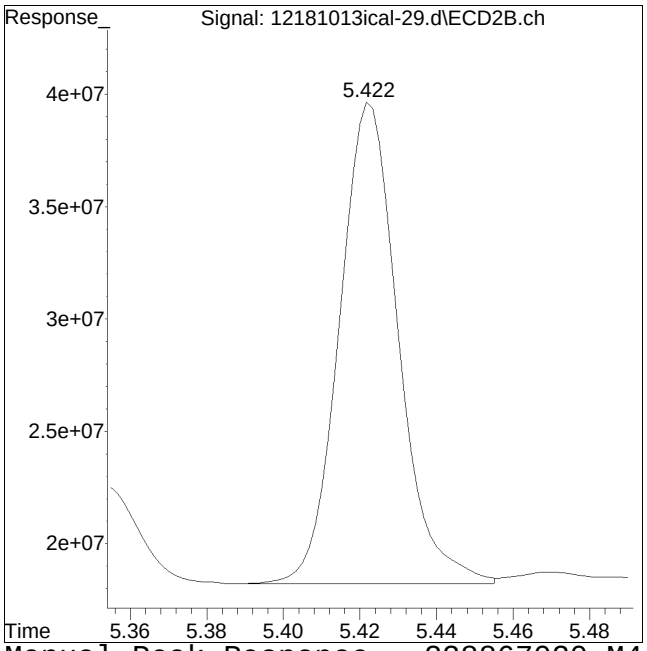
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-29.d
Date Inj'd : 10/13/2018 4:53 pm
Sample : il31660,42e,,8759

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:53 am

Compound #60: 1260-1 #2





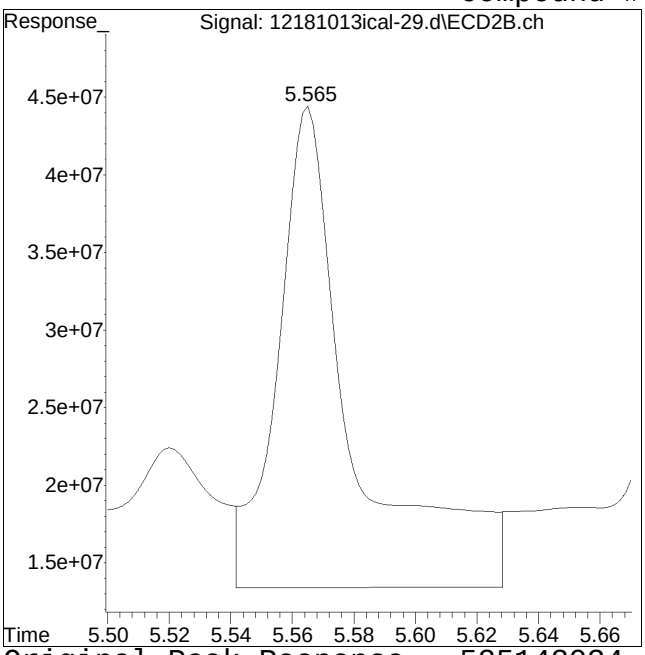
Original Peak Response = 433334481 Manual Peak Response = 228867020 M4
M4 = Poor automated baseline construction.

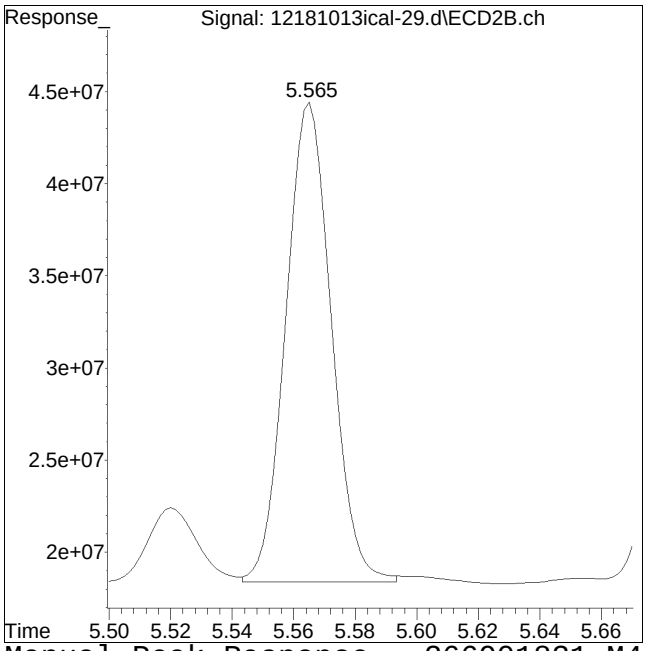
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-29.d
Date Inj'd : 10/13/2018 4:53 pm
Sample : il31660,42e,,8759

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:53 am

Compound #61: 1260-2 #2





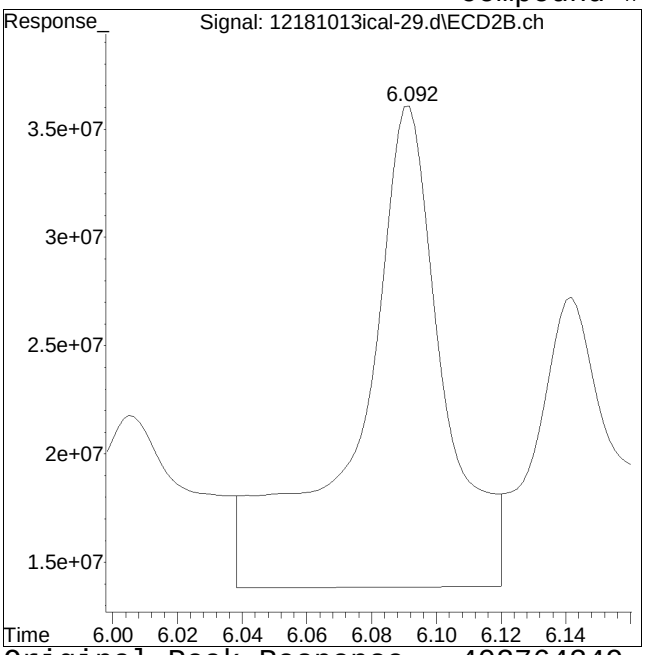
Original Peak Response = 525142934 Manual Peak Response = 266901831 M4
M4 = Poor automated baseline construction.

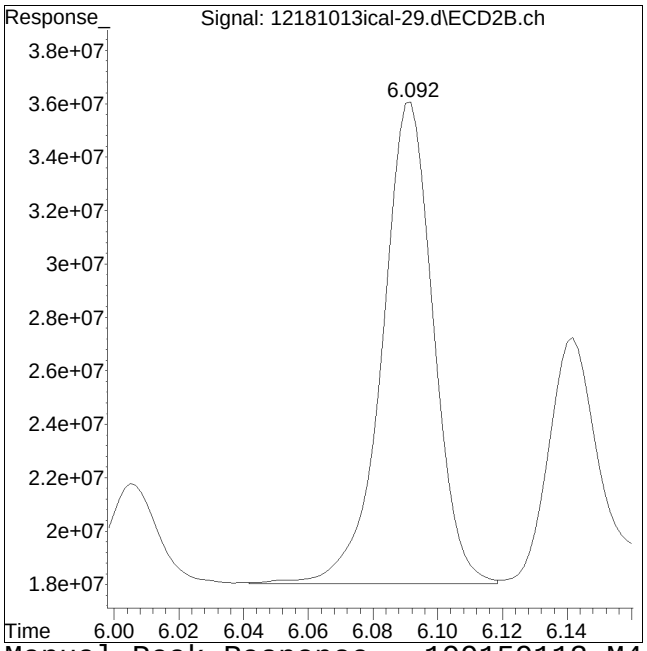
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-29.d
Date Inj'd : 10/13/2018 4:53 pm
Sample : il31660,42e,,8759

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:53 am

Compound #62: 1260-3 #2





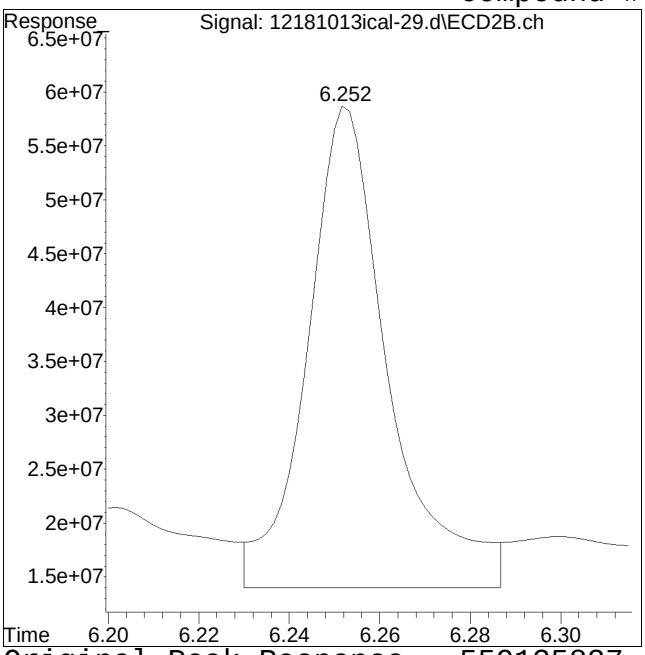
Original Peak Response = 402764349 Manual Peak Response = 199159113 M4
M4 = Poor automated baseline construction.

Manual Integration Report

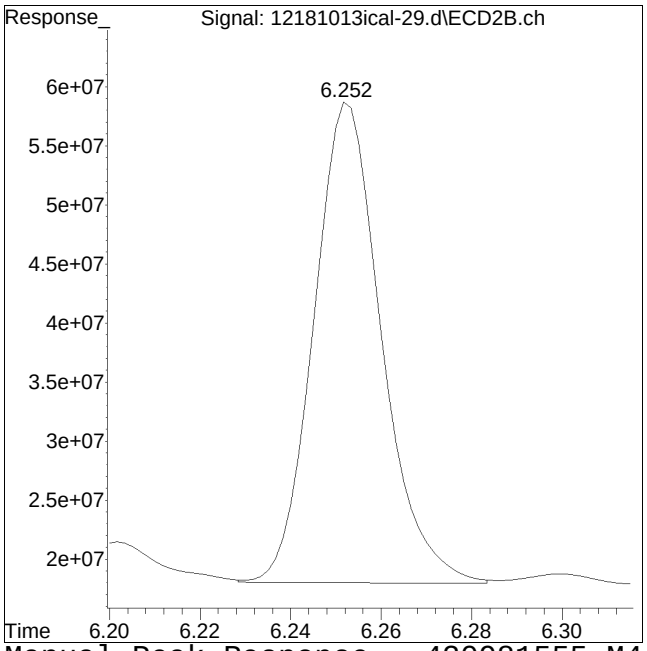
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-29.d
Date Inj'd : 10/13/2018 4:53 pm
Sample : il31660,42e,,8759

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:53 am

Compound #63: 1260-4 #2



Original Peak Response = 559135827



Manual Peak Response = 420981555 M4

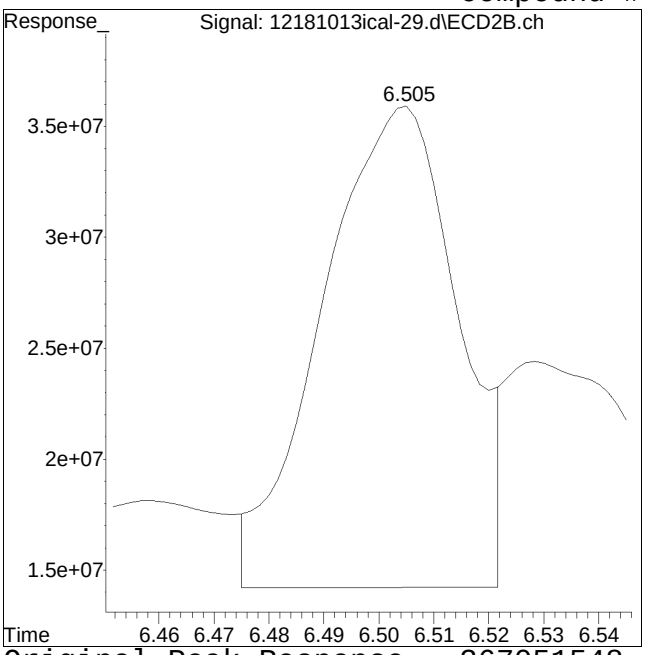
M4 = Poor automated baseline construction.

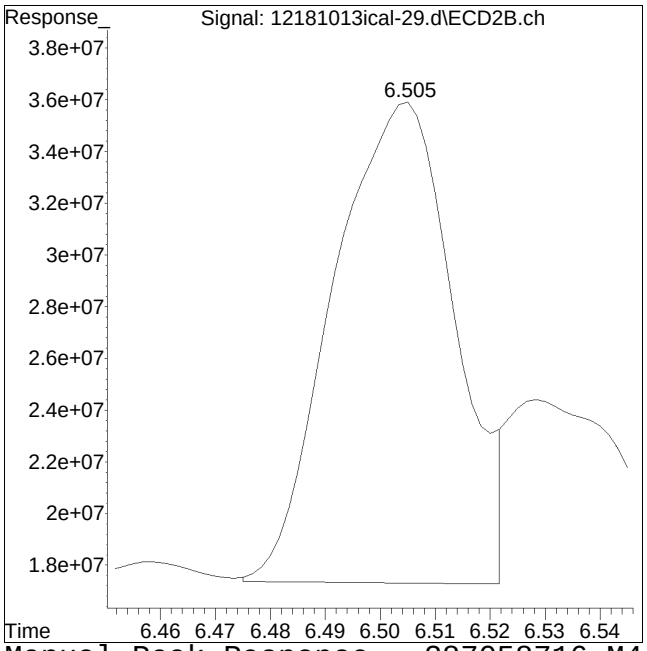
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-29.d
Date Inj'd : 10/13/2018 4:53 pm
Sample : il31660,42e,,8759

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:53 am

Compound #64: 1260-5 #2





Original Peak Response = 367051548 Manual Peak Response = 287058716 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-30.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 5:05 pm
Operator : Pest12:kb
Sample : il41660,42e,,8758
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 08:39:53 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 08:35:14 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	2.069	2.224	758.1E6	1152.2E6	250.000M4	250.000M4
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.544	2.860	491.7E6	798.4E6	NoCal M4	NoCal M4
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
3) s	Decachlorobi	6.566	7.281	593.8E6	943.3E6	NoCal	NoCal
	Spiked Amount 500.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
4) l1	1016-1	2.779	3.231	134.6E6	220.4E6	NoCal M4	NoCal M4
5) l1	1016-2	3.022	3.558	290.2E6	484.6E6	NoCal M4	NoCal M4
6) l1	1016-3	3.364	3.952	583.8E6	996.1E6	NoCal	NoCal M1
7) l1	1016-4	3.467	4.066	249.5E6	376.2E6	NoCal	NoCal M4
8) l1	1016-5	3.787	4.454	257.8E6	294.5E6	NoCal	NoCal M4
Sum	1016-1			0	0	N.D.	N.D.
Average	1016-1					0.000	0.000
9) l2	1260-1	4.744	5.422	343.8E6	537.5E6	NoCal	NoCal M4
10) l2	1260-2	4.950	5.565	512.4E6	633.6E6	NoCal M3	NoCal M4
11) l2	1260-3	5.418	6.092	313.4E6	468.3E6	NoCal	NoCal M4
12) l2	1260-4	5.634	6.253	721.5E6	1011.6E6	NoCal	NoCal M4
13) l2	1260-5	5.834	6.506	469.1E6	670.9E6	NoCal	NoCal M4
Sum	1260-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-30.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 5:05 pm
Operator : Pest12:kb
Sample : il41660,42e,,8758
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 08:39:53 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 08:35:14 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1260-1					0.000	0.000
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-30.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 5:05 pm
Operator : Pest12:kb
Sample : il41660,42e,,8758
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 08:39:53 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 08:35:14 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

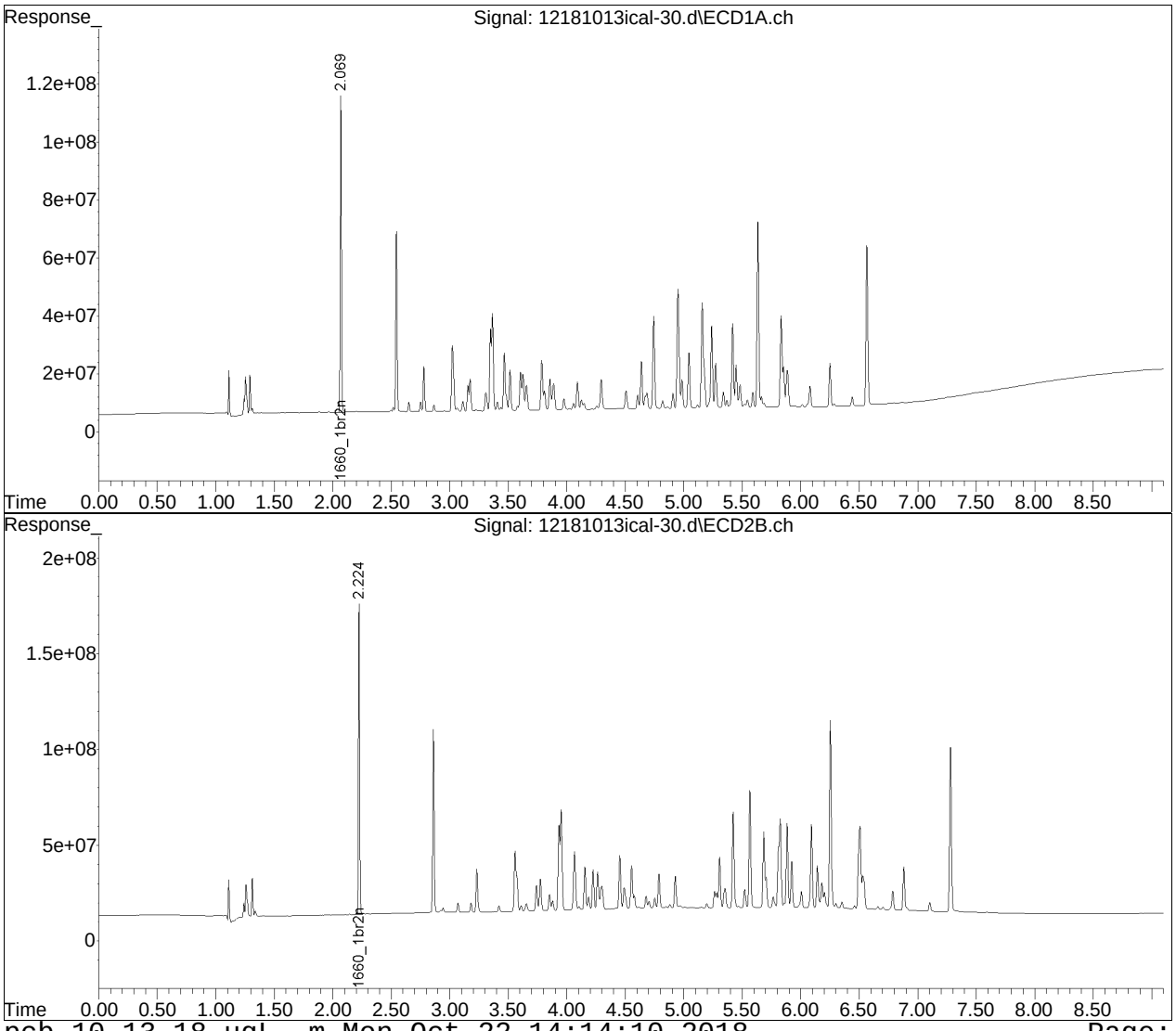
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-30.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 5:05 pm
Operator : Pest12:kb
Sample : il41660,42e,,8758
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 08:39:53 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 08:35:14 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

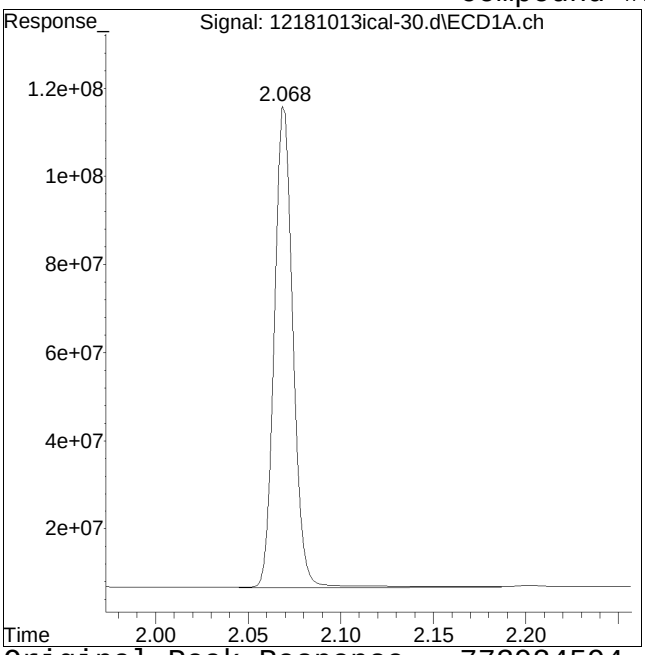


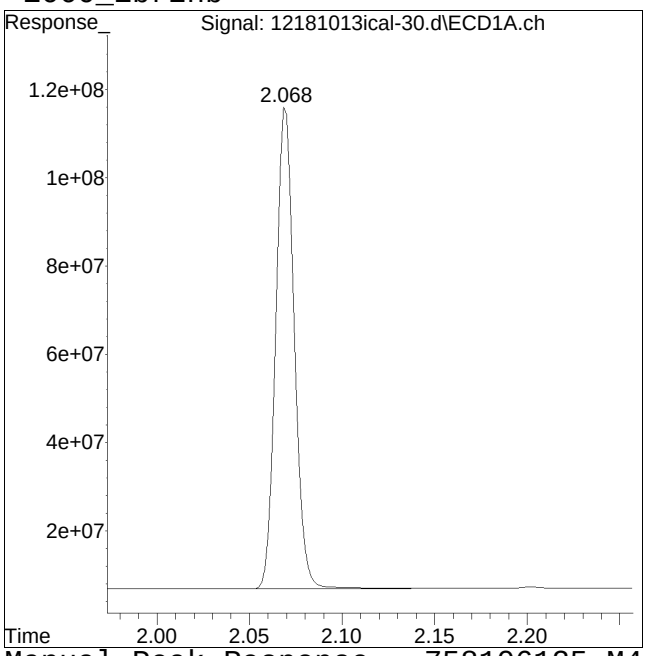
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-30.d
Date Inj'd : 10/13/2018 5:05 pm
Sample : il41660,42e,,8758

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:35 am

Compound #1: 1660_1br2nb





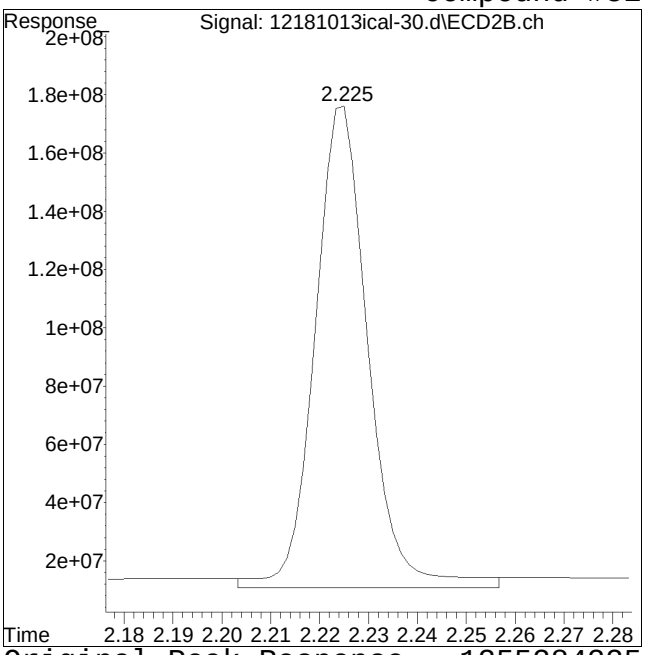
Original Peak Response = 773924594 Manual Peak Response = 758106125 M4
M4 = Poor automated baseline construction.

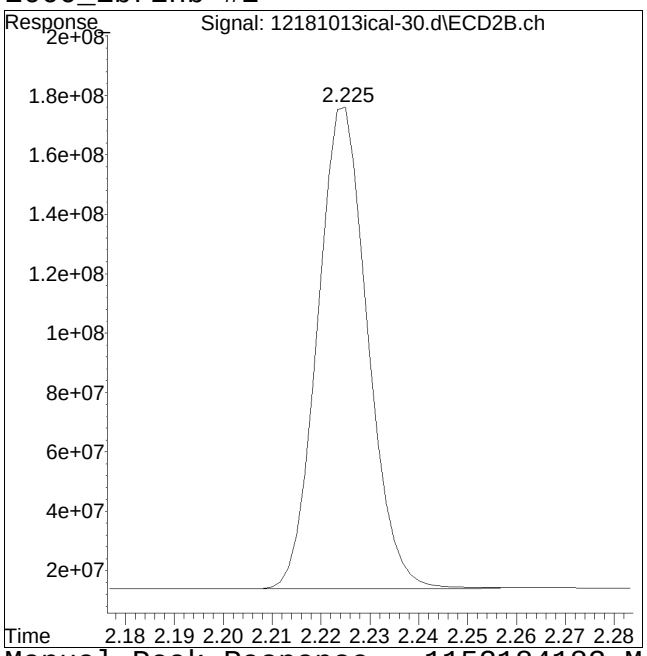
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-30.d
Date Inj'd : 10/13/2018 5:05 pm
Sample : il41660,42e,,8758

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:35 am

Compound #52: 1660_1br2nb #2





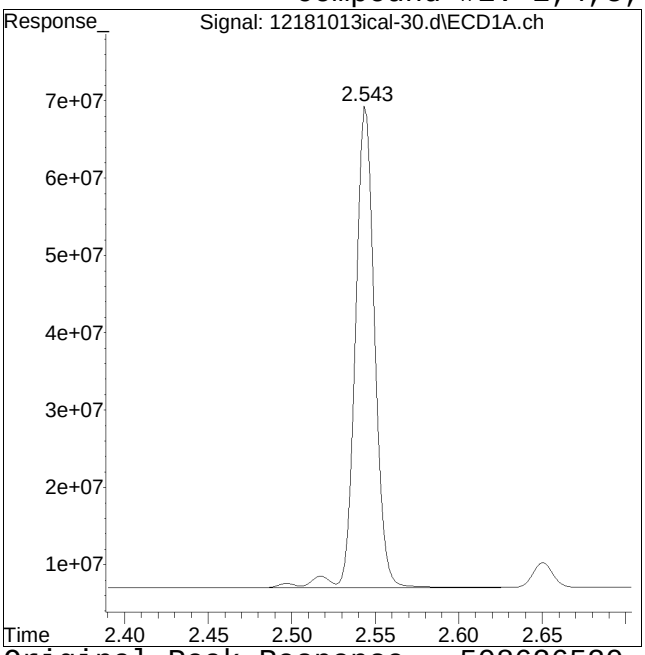
Original Peak Response = 1255284225 Manual Peak Response = 1152184183 M4
M4 = Poor automated baseline construction.

Manual Integration Report

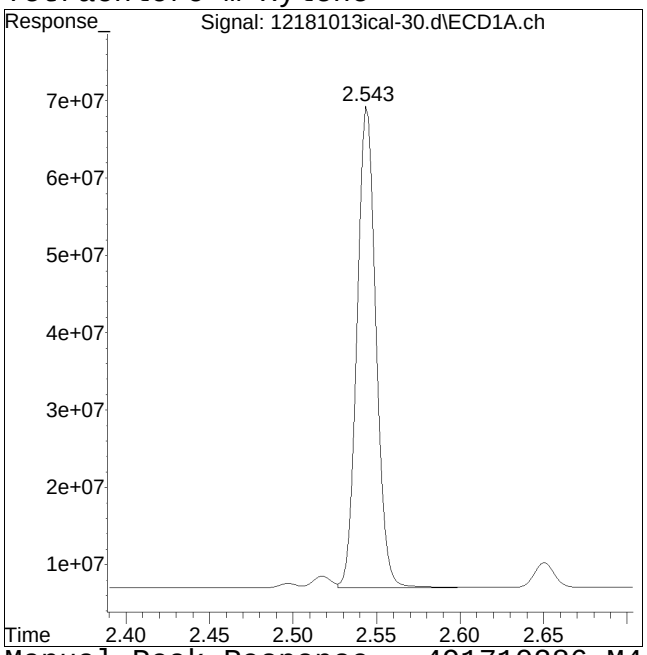
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-30.d
Date Inj'd : 10/13/2018 5:05 pm
Sample : il41660,42e,,8758

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:35 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 508626520



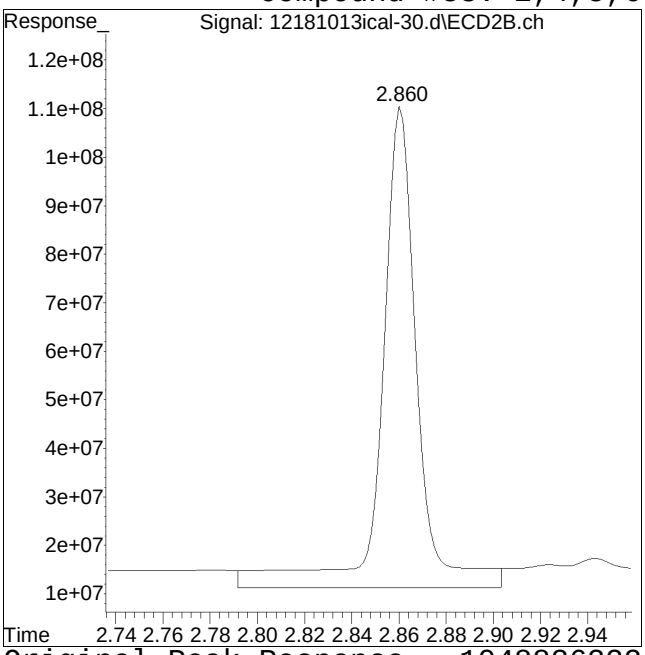
Manual Peak Response = 491710286 M4
M4 = Poor automated baseline construction.

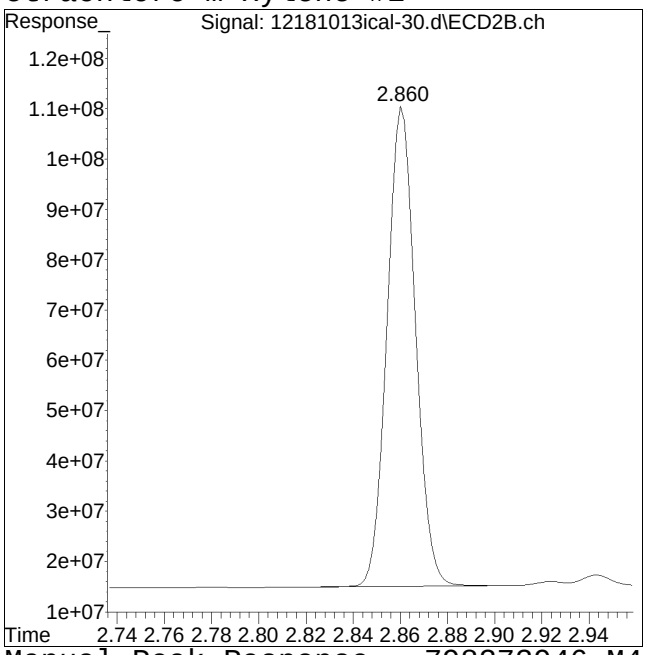
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-30.d
Date Inj'd : 10/13/2018 5:05 pm
Sample : il41660,42e,,8758

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:35 am

Compound #53: 2,4,5,6-Tetrachloro-m-xylene #2





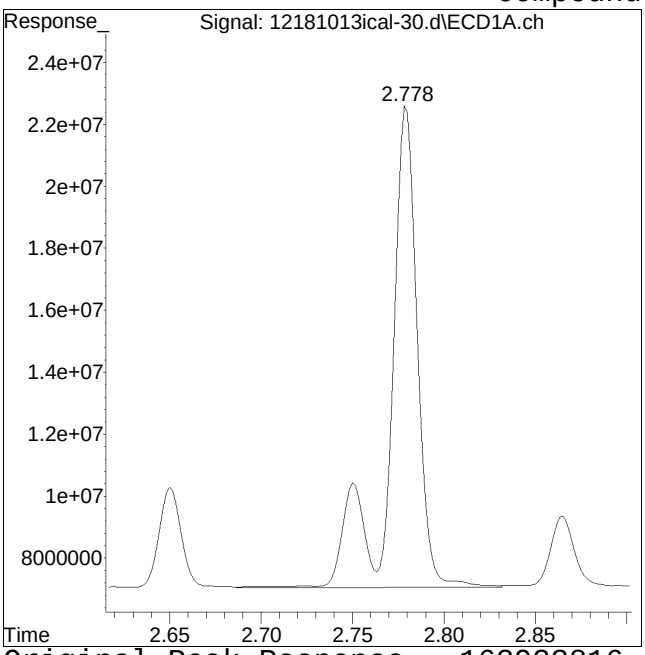
Original Peak Response = 1048826222 Manual Peak Response = 798373946 M4
M4 = Poor automated baseline construction.

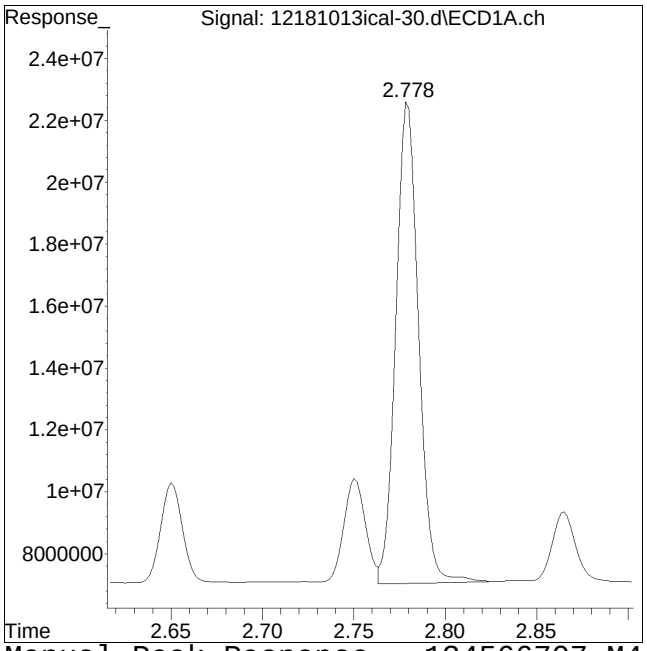
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-30.d
Date Inj'd : 10/13/2018 5:05 pm
Sample : il41660,42e,,8758

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:35 am

Compound #4: 1016-1





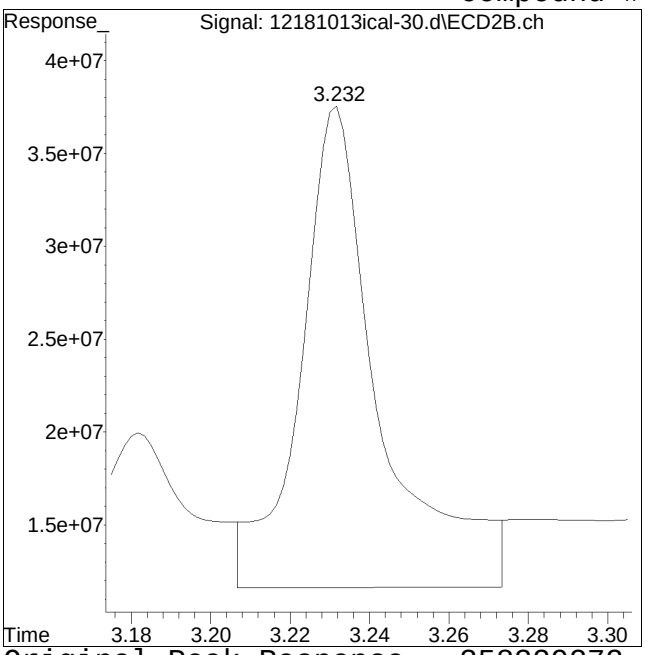
Original Peak Response = 163923816 Manual Peak Response = 134566707 M4
M4 = Poor automated baseline construction.

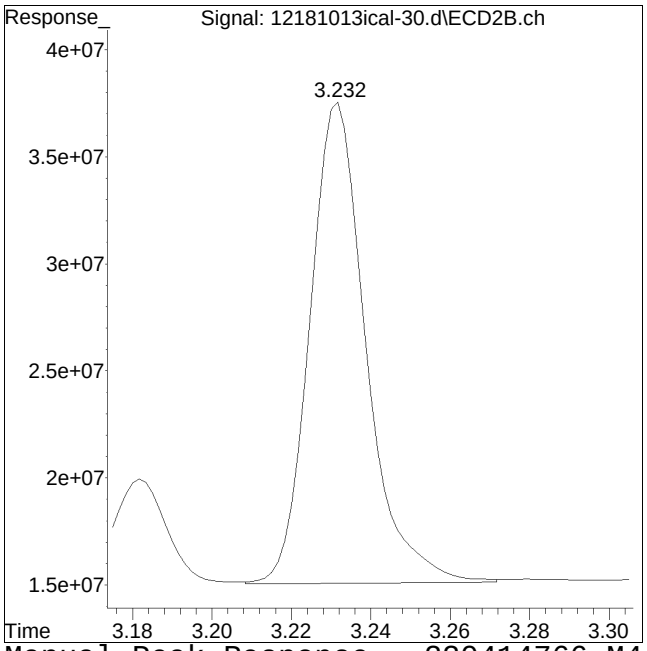
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-30.d
Date Inj'd : 10/13/2018 5:05 pm
Sample : il41660,42e,,8758

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:35 am

Compound #55: 1016-1 #2





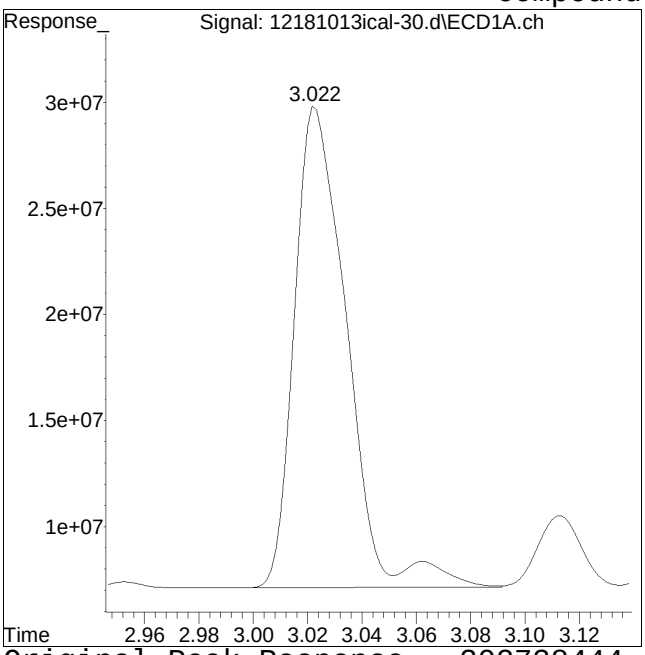
Original Peak Response = 358329272 Manual Peak Response = 220414766 M4
M4 = Poor automated baseline construction.

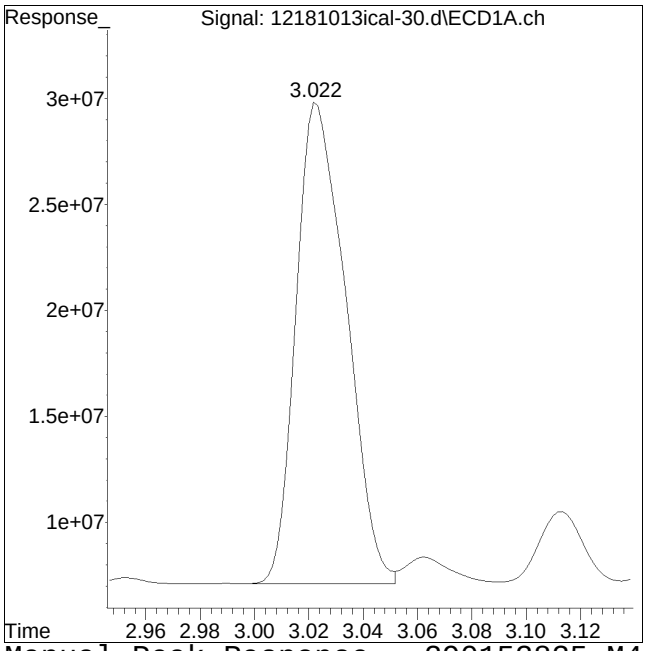
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-30.d
Date Inj'd : 10/13/2018 5:05 pm
Sample : il41660,42e,,8758

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:35 am

Compound #5: 1016-2





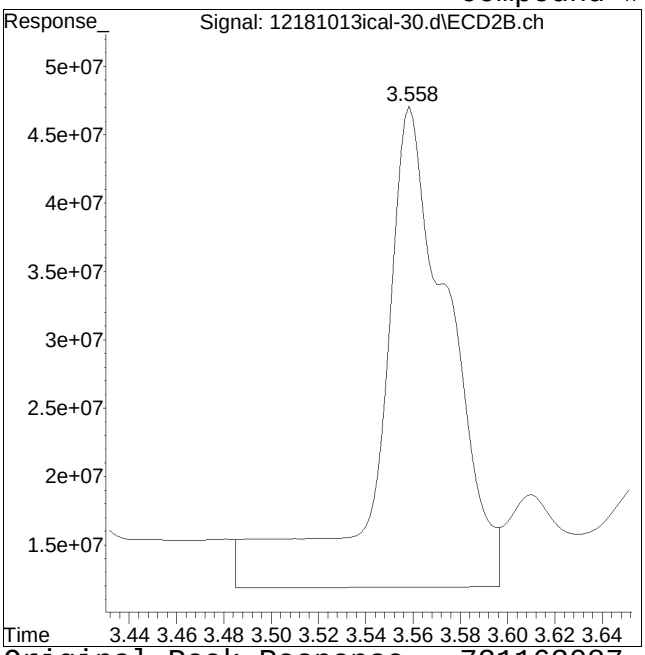
Original Peak Response = 302738444 Manual Peak Response = 290153835 M4
M4 = Poor automated baseline construction.

Manual Integration Report

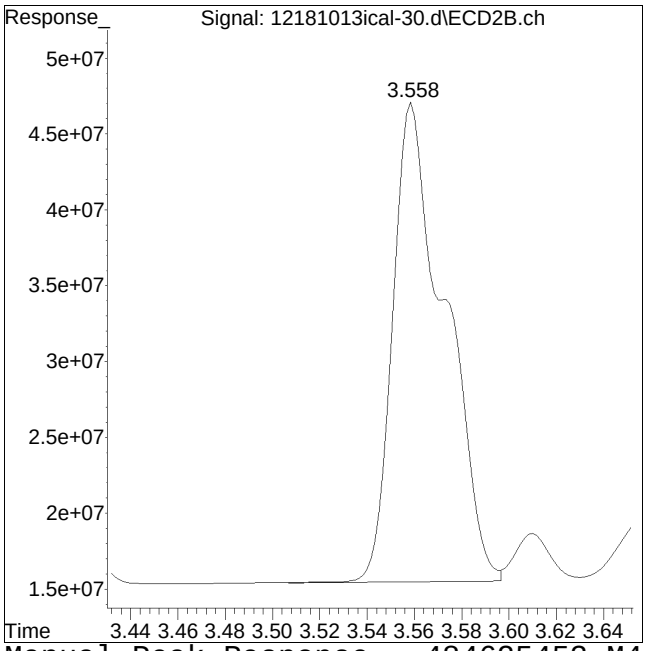
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-30.d
Date Inj'd : 10/13/2018 5:05 pm
Sample : il41660,42e,,8758

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:35 am

Compound #56: 1016-2 #2



Original Peak Response = 721163087



Manual Peak Response = 484625453 M4

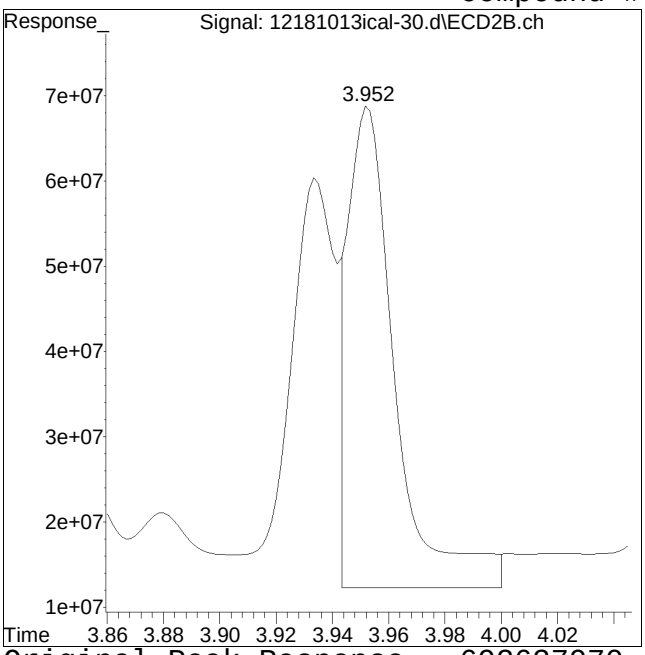
M4 = Poor automated baseline construction.

Manual Integration Report

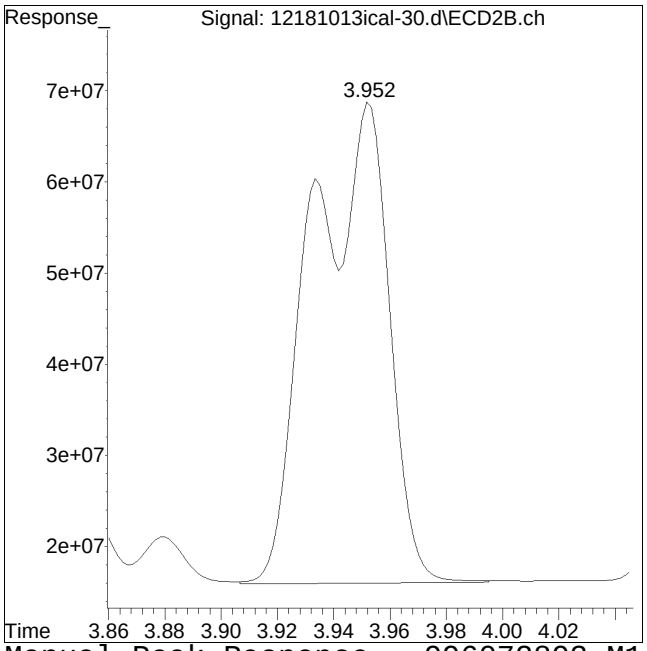
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-30.d
Date Inj'd : 10/13/2018 5:05 pm
Sample : il41660,42e,,8758

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:35 am

Compound #57: 1016-3 #2



Original Peak Response = 692637970



Manual Peak Response = 996072893 M1

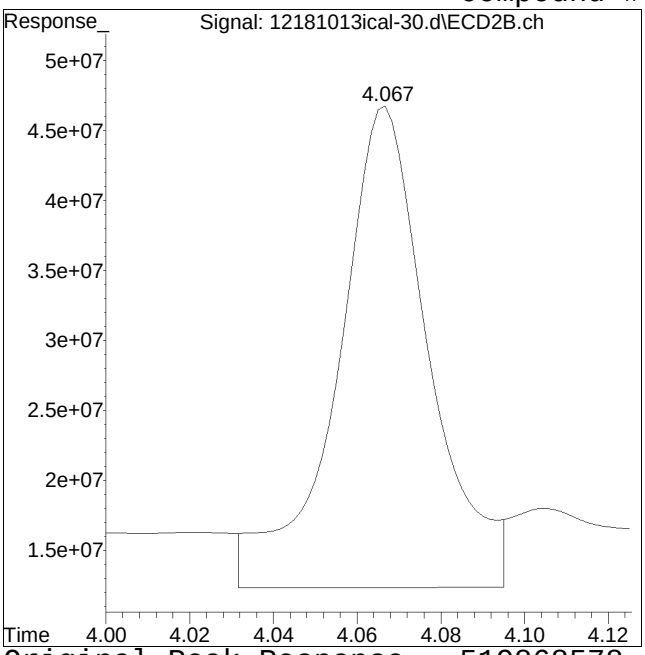
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

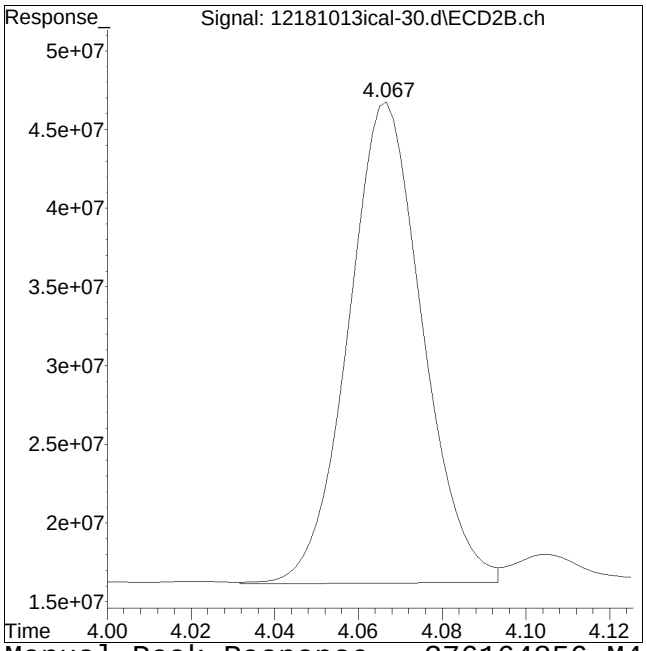
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-30.d
Date Inj'd : 10/13/2018 5:05 pm
Sample : il41660,42e,,8758

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:35 am

Compound #58: 1016-4 #2





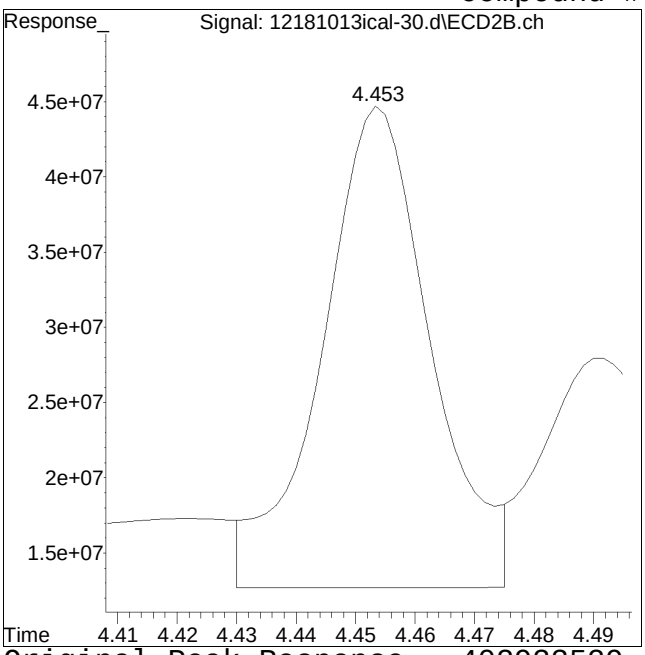
Original Peak Response = 519868578 Manual Peak Response = 376164856 M4
M4 = Poor automated baseline construction.

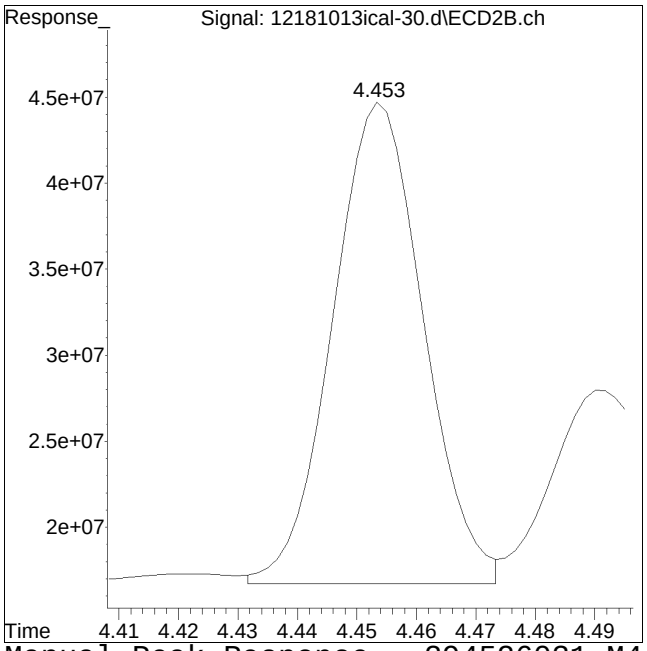
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-30.d
Date Inj'd : 10/13/2018 5:05 pm
Sample : il41660,42e,,8758

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:35 am

Compound #59: 1016-5 #2





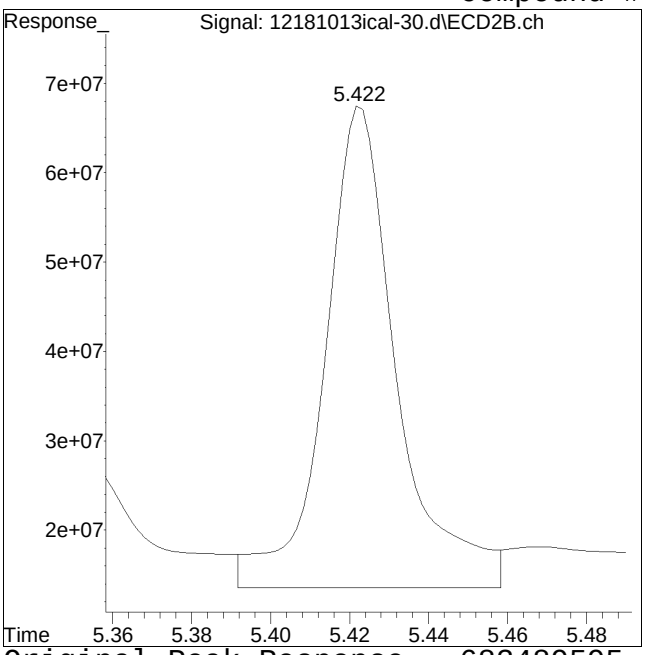
Original Peak Response = 402933529 Manual Peak Response = 294526031 M4
M4 = Poor automated baseline construction.

Manual Integration Report

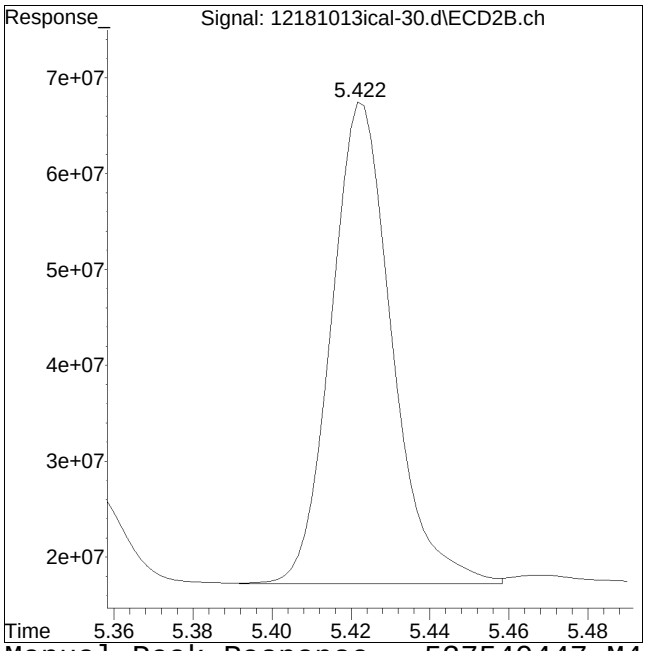
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-30.d
Date Inj'd : 10/13/2018 5:05 pm
Sample : il41660,42e,,8758

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:35 am

Compound #60: 1260-1 #2



Original Peak Response = 683489595



Manual Peak Response = 537540447 M4

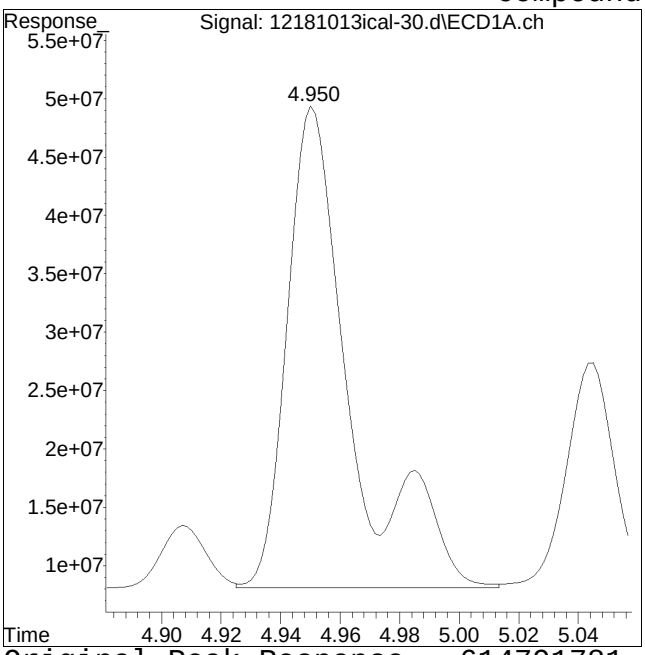
M4 = Poor automated baseline construction.

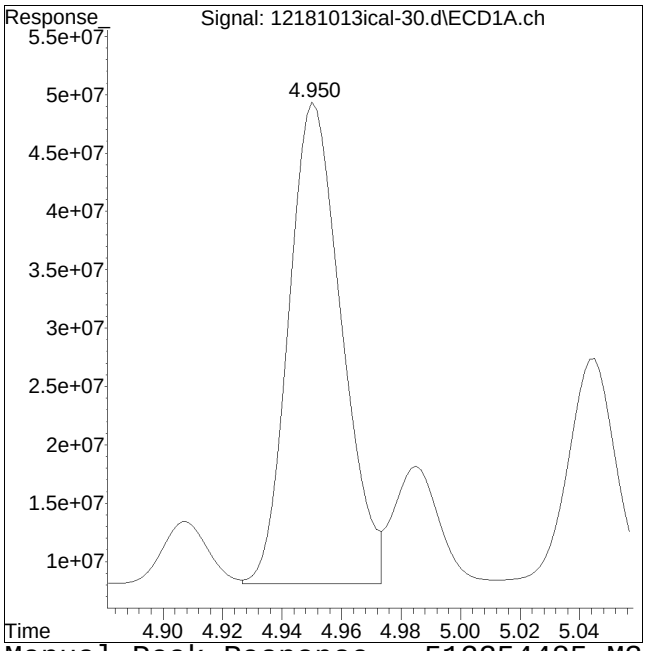
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-30.d
Date Inj'd : 10/13/2018 5:05 pm
Sample : il41660,42e,,8758

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:35 am

Compound #10: 1260-2





Original Peak Response = 614791781 Manual Peak Response = 512354485 M3

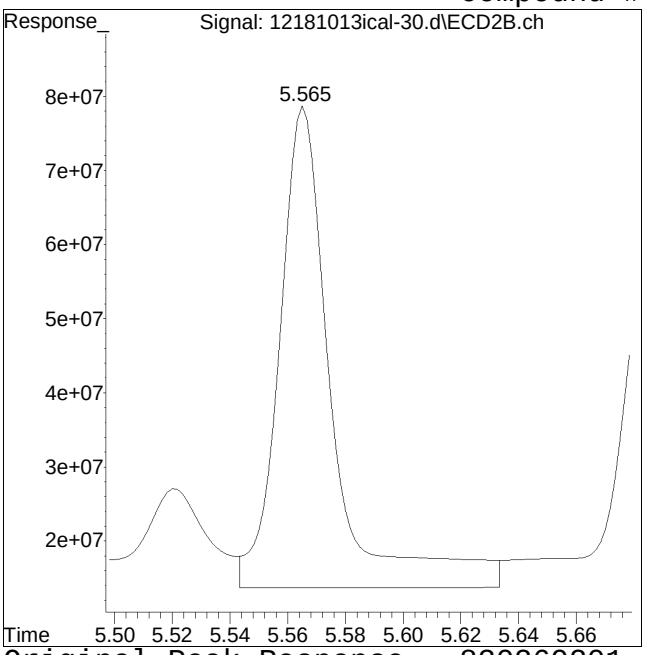
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

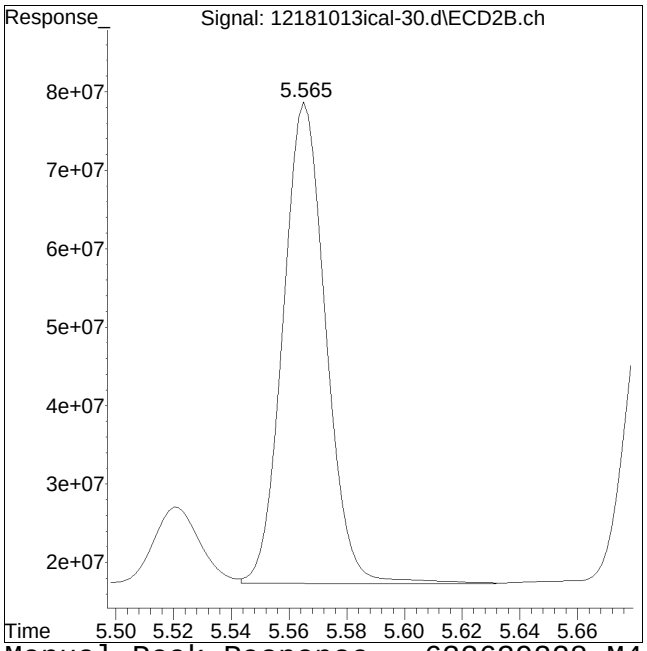
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-30.d
Date Inj'd : 10/13/2018 5:05 pm
Sample : il41660,42e,,8758

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:35 am

Compound #61: 1260-2 #2



Original Peak Response = 830269201



Manual Peak Response = 633639228 M4

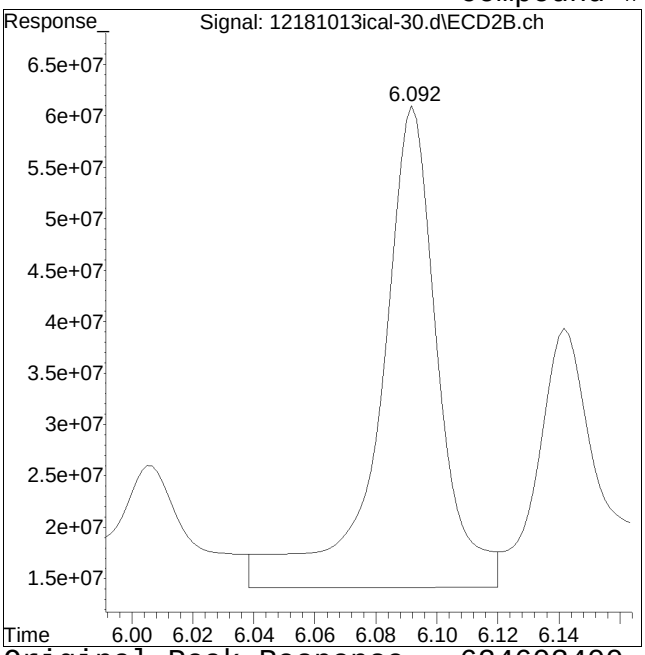
M4 = Poor automated baseline construction.

Manual Integration Report

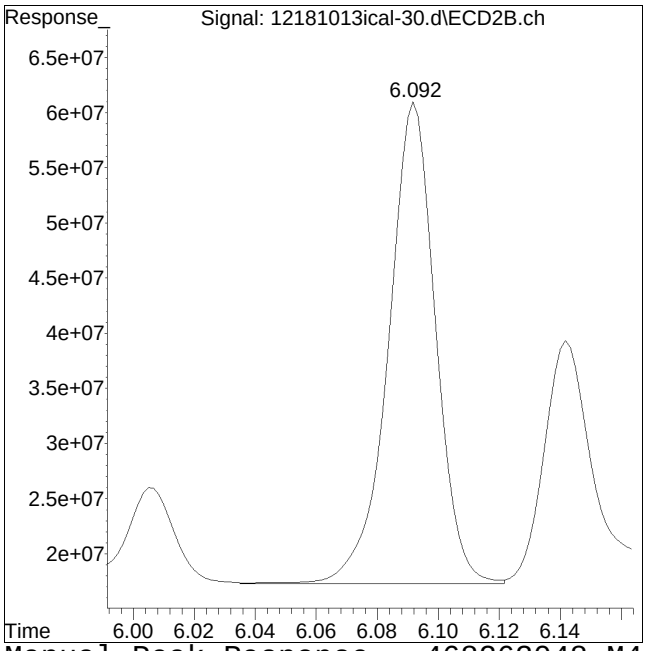
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-30.d
Date Inj'd : 10/13/2018 5:05 pm
Sample : il41660,42e,,8758

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:35 am

Compound #62: 1260-3 #2



Original Peak Response = 624603400



Manual Peak Response = 468263048 M4

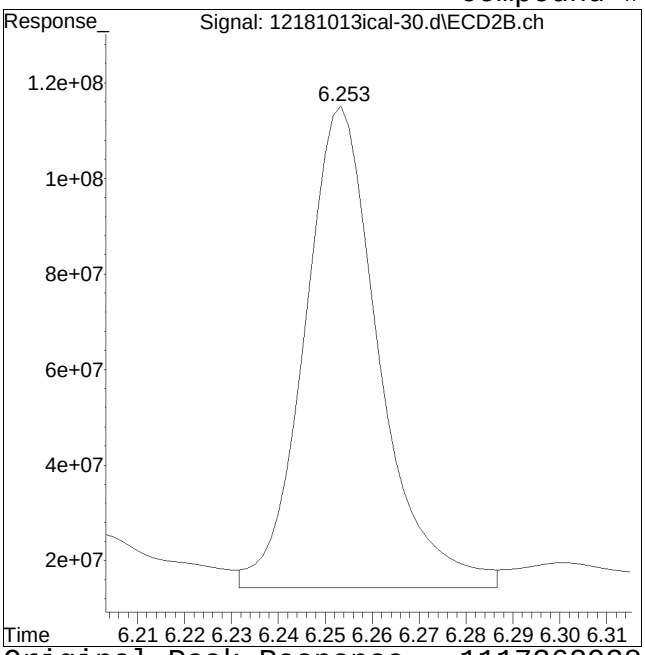
M4 = Poor automated baseline construction.

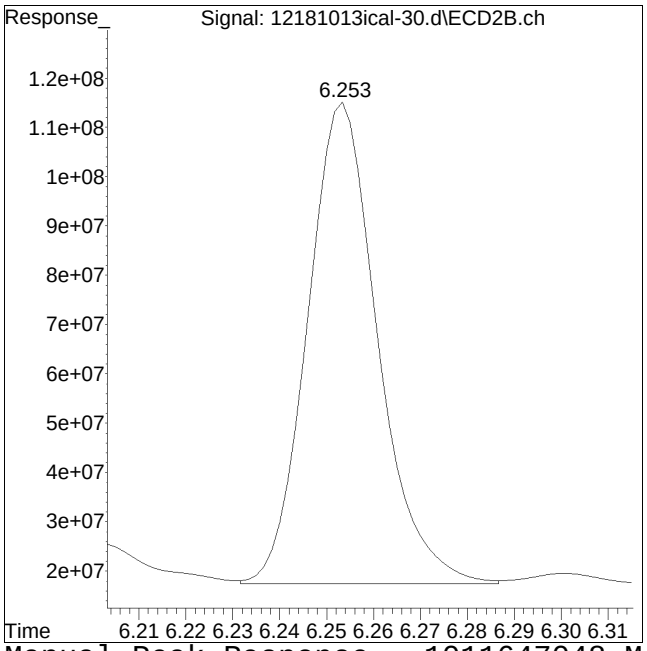
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-30.d
Date Inj'd : 10/13/2018 5:05 pm
Sample : il41660,42e,,8758

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:35 am

Compound #63: 1260-4 #2





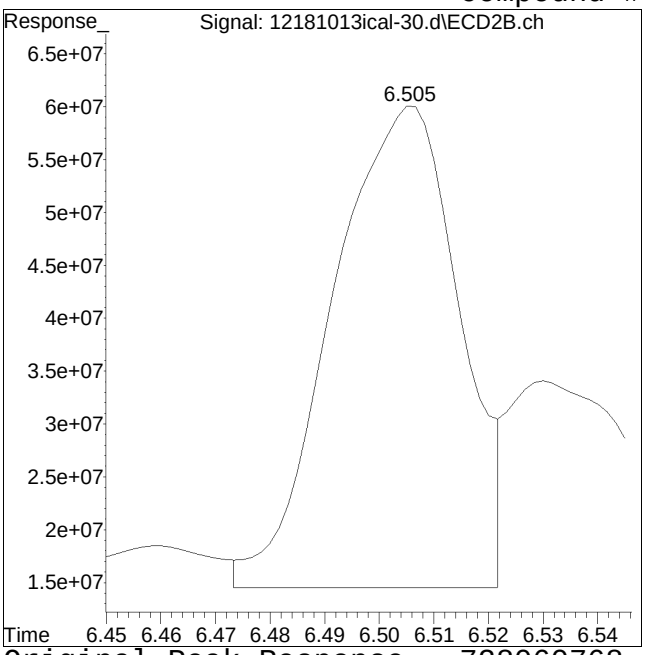
Original Peak Response = 1117362928 Manual Peak Response = 1011647048 M4
M4 = Poor automated baseline construction.

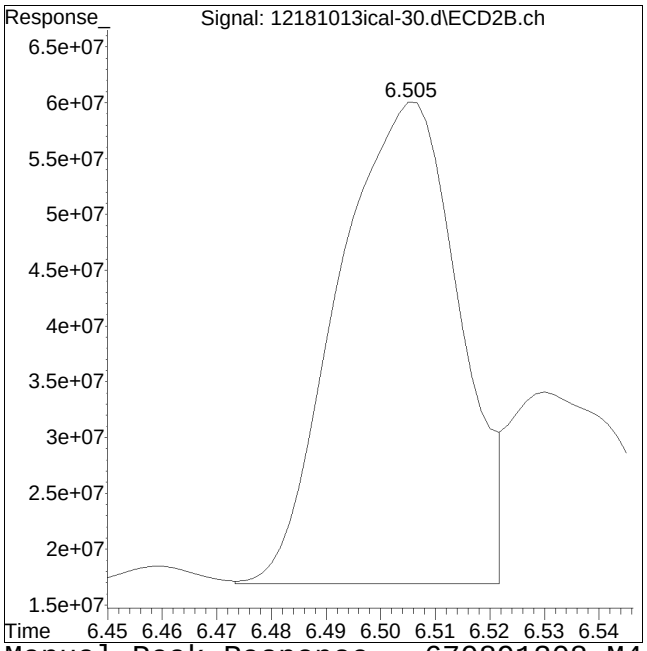
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-30.d
Date Inj'd : 10/13/2018 5:05 pm
Sample : il41660,42e,,8758

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:35 am

Compound #64: 1260-5 #2





Original Peak Response = 728060768 Manual Peak Response = 670891308 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-31.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 5:17 pm
Operator : Pest12:kb
Sample : il51660,42e,,8757
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 08:47:48 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 08:40:09 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	2.069	2.224	753.1E6	1130.3E6	250.000M4	250.000M4
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.545	2.861	984.5E6	1571.5E6	322.490	321.055
Spiked Amount	500.000	Range 30 - 150		Recovery =		64.50%	64.21%
3) s	Decachlorobi	6.565	7.278	1144.1E6	1807.7E6	620.710	625.115M4
Spiked Amount	500.000	Range 30 - 150		Recovery =		124.14%	125.02%
	Target Compounds						
4) l1	1016-1	2.779	3.232	252.5E6	406.3E6	4721.651M3	4698.345
5) l1	1016-2	3.023	3.559	540.8E6	919.3E6	4690.827M3	4834.118
6) l1	1016-3	3.365	3.952	1109.5E6	1891.8E6	4783.006	4840.308M4
7) l1	1016-4	3.467	4.067	473.6E6	719.4E6	4776.404	4873.819M4
8) l1	1016-5	3.788	4.453	490.7E6	556.3E6	4790.546	4813.733M4
Sum	1016-1			2867.1E6	4493.1E6	23762.433	24060.322
Average	1016-1					4752.487	4812.064
9) l2	1260-1	4.744	5.423	651.3E6	1030.9E6	4767.602	4887.518M4
10) l2	1260-2	4.951	5.565	962.2E6	1206.6E6	4726.187M3	4852.781M4
11) l2	1260-3	5.418	6.091	604.0E6	896.7E6	4849.223	4880.535M4
12) l2	1260-4	5.634	6.252	1408.7E6	1950.3E6	4913.631	4913.043M4
13) l2	1260-5	5.833	6.505	902.1E6	1310.3E6	4839.777	4977.484M4
Sum	1260-1			4528.3E6	6394.8E6	NoCal	NoCal D
Average	1260-1					4819.284	4902.272
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-31.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 5:17 pm
Operator : Pest12:kb
Sample : il51660,42e,,8757
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 08:47:48 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 08:40:09 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-31.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 5:17 pm
Operator : Pest12:kb
Sample : il51660,42e,,8757
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 08:47:48 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 08:40:09 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

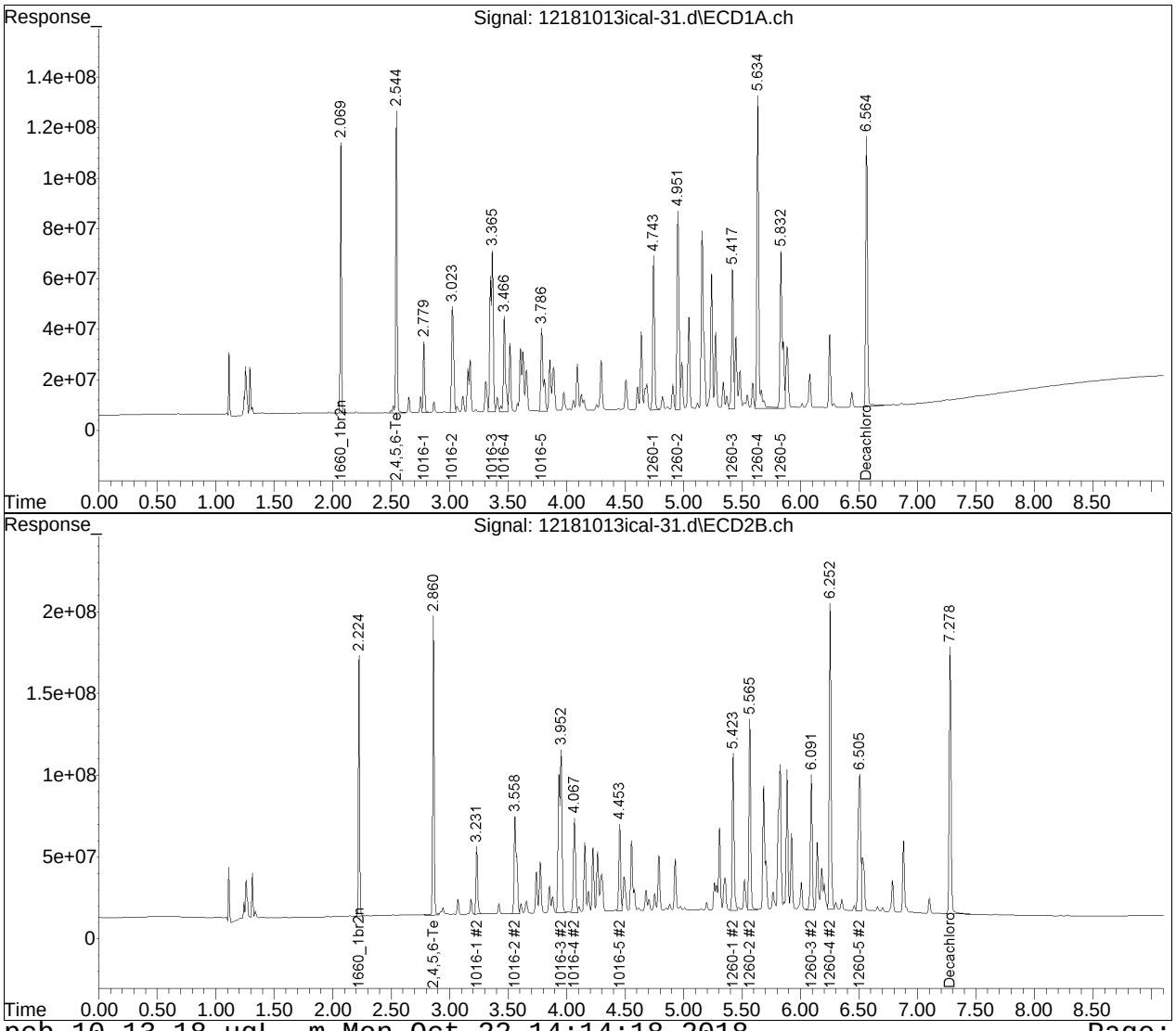
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-31.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 5:17 pm
Operator : Pest12:kb
Sample : il51660,42e,,8757
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 08:47:48 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 08:40:09 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

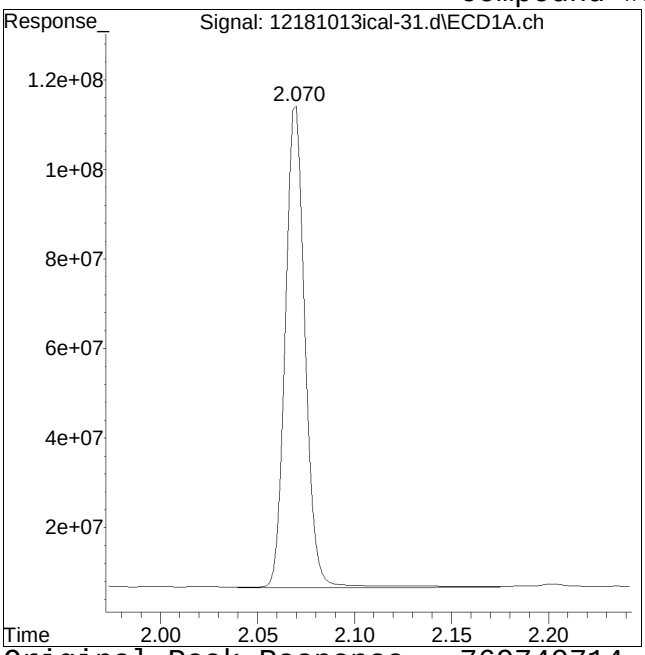


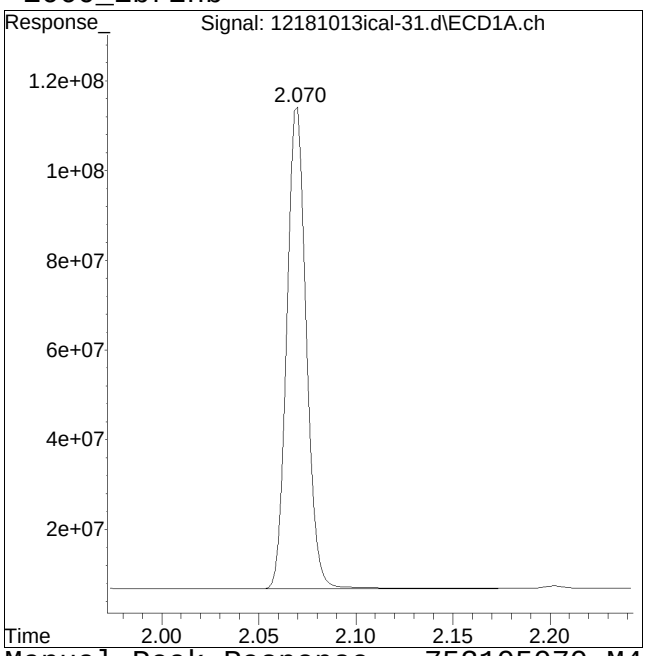
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-31.d
Date Inj'd : 10/13/2018 5:17 pm
Sample : il51660,42e,,8757

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:40 am

Compound #1: 1660_1br2nb





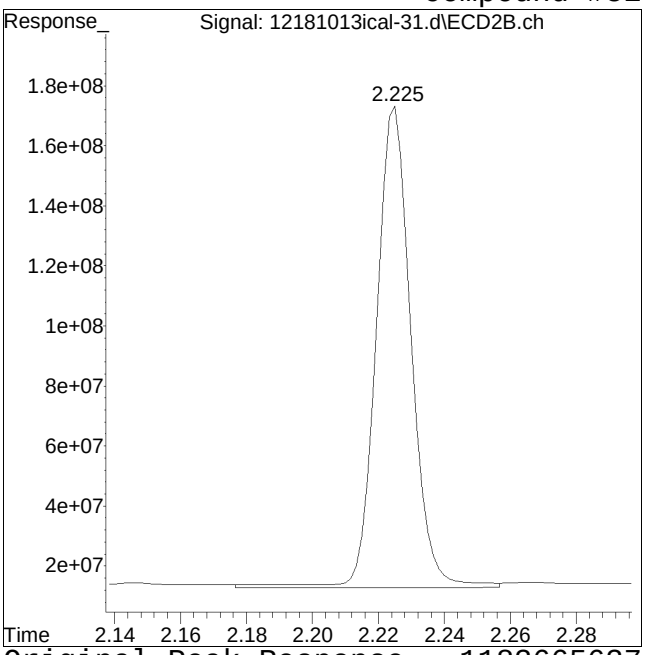
Original Peak Response = 769740714 Manual Peak Response = 753105070 M4
M4 = Poor automated baseline construction.

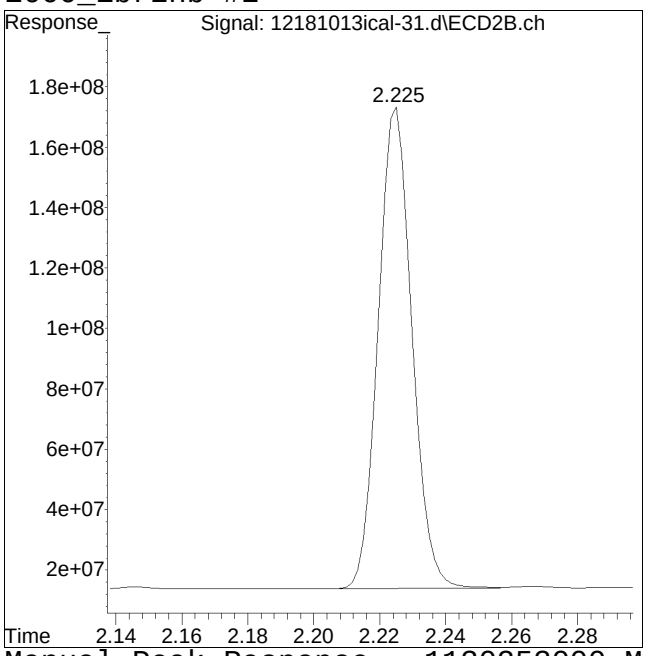
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-31.d
Date Inj'd : 10/13/2018 5:17 pm
Sample : il51660,42e,,8757

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:40 am

Compound #52: 1660_1br2nb #2





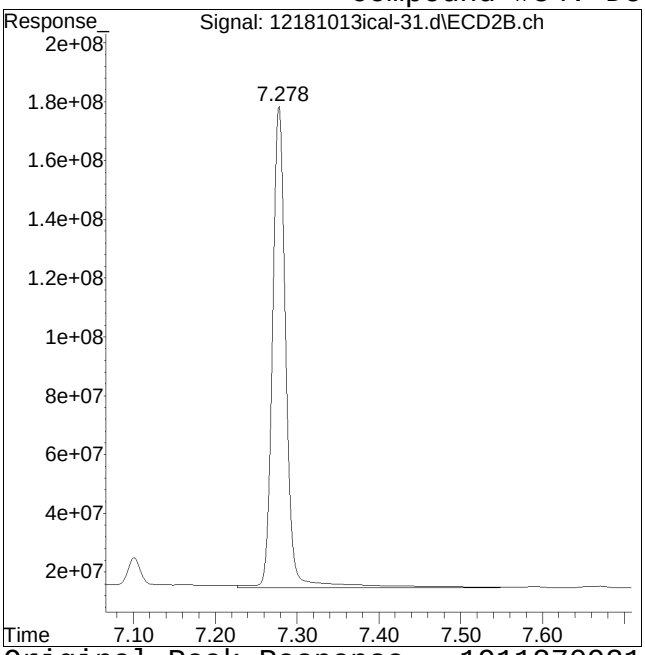
Original Peak Response = 1183665637 Manual Peak Response = 1130253000 M4
M4 = Poor automated baseline construction.

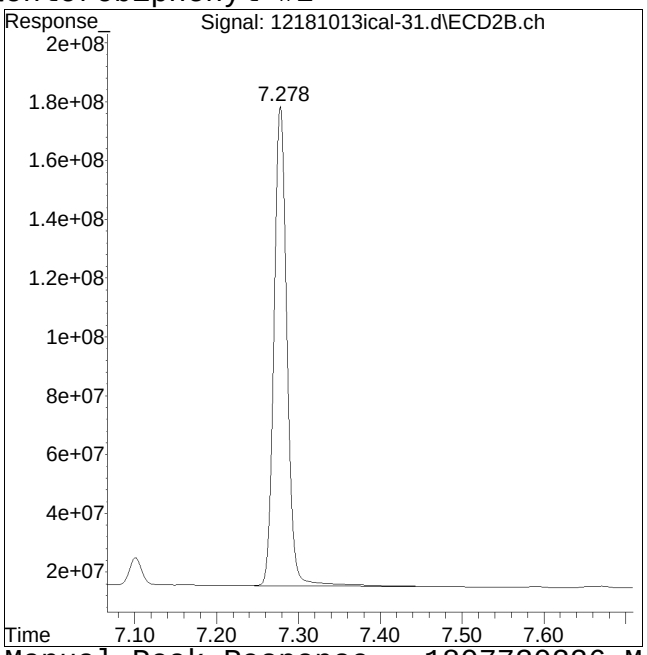
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-31.d
Date Inj'd : 10/13/2018 5:17 pm
Sample : il51660,42e,,8757

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:40 am

Compound #54: Decachlorobiphenyl #2





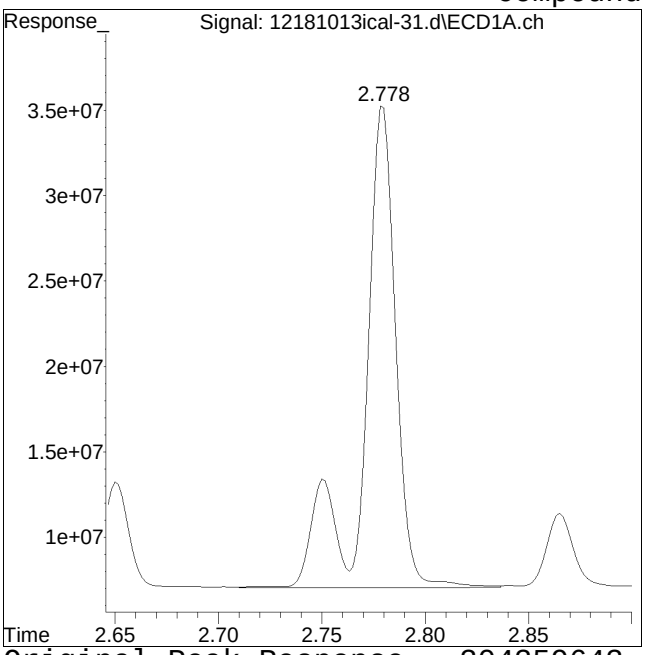
Original Peak Response = 1911270921 Manual Peak Response = 1807730226 M4
M4 = Poor automated baseline construction.

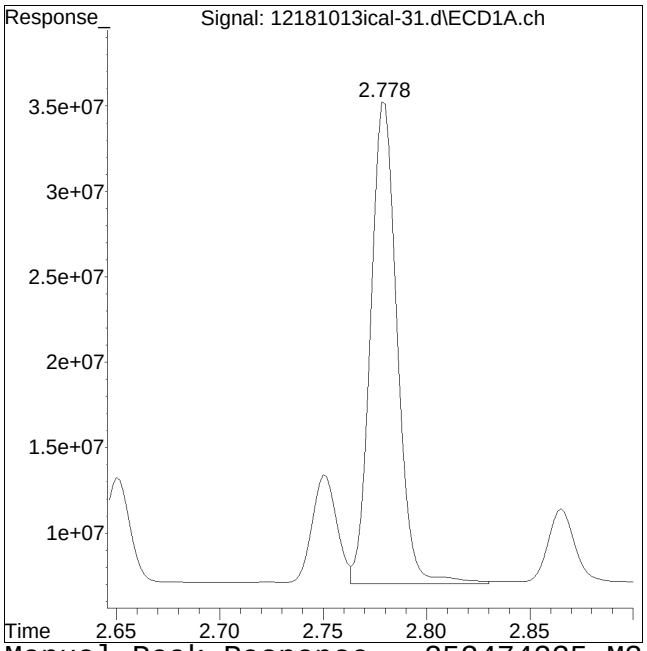
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-31.d
Date Inj'd : 10/13/2018 5:17 pm
Sample : il51660,42e,,8757

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:40 am

Compound #4: 1016-1





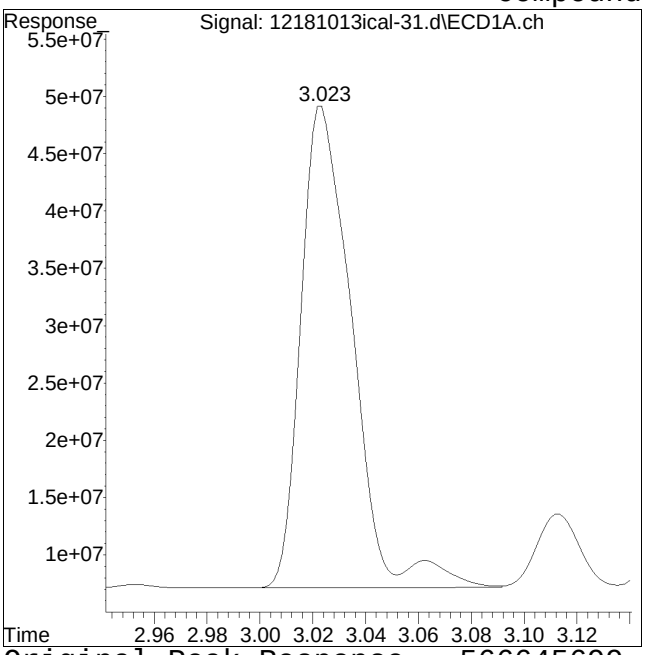
Original Peak Response = 304359643 Manual Peak Response = 252474235 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

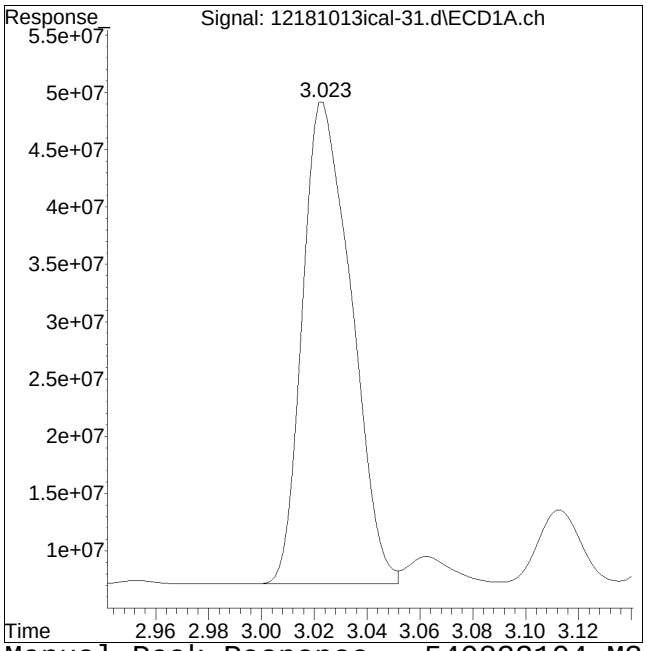
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-31.d
Date Inj'd : 10/13/2018 5:17 pm
Sample : il51660,42e,,8757

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:40 am

Compound #5: 1016-2





Original Peak Response = 566645699 Manual Peak Response = 540833104 M3

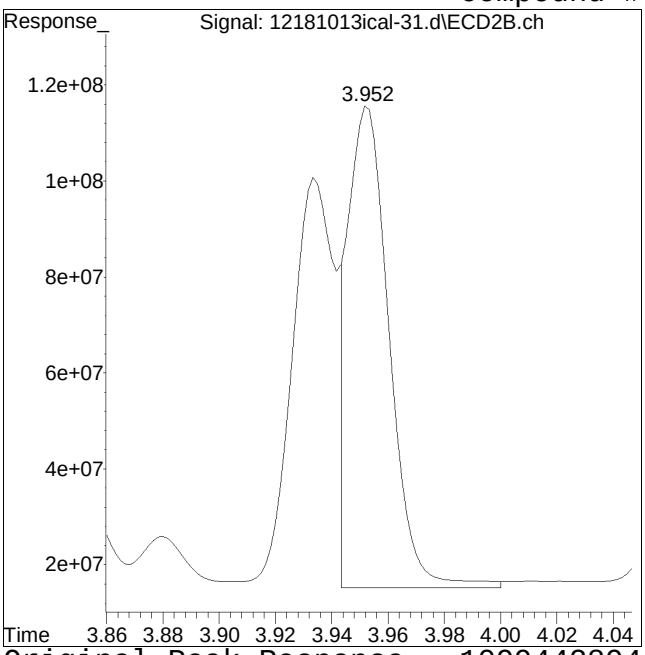
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

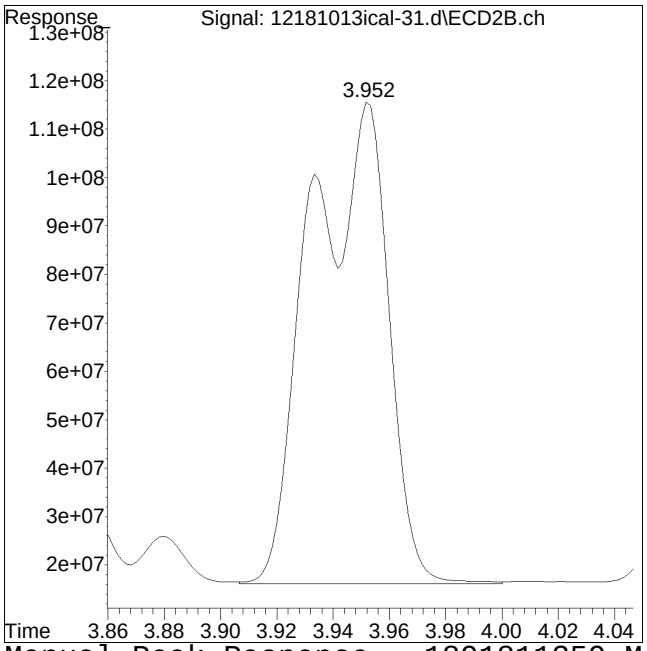
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-31.d
Date Inj'd : 10/13/2018 5:17 pm
Sample : il51660,42e,,8757

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:40 am

Compound #57: 1016-3 #2





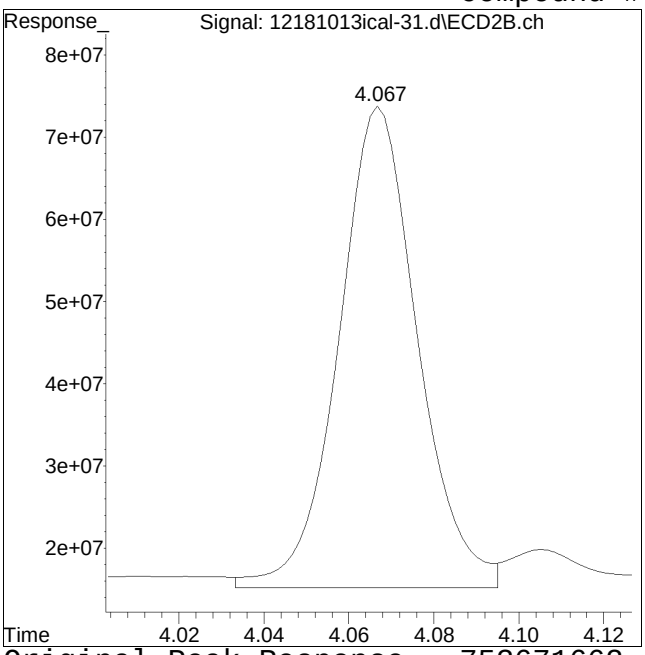
Original Peak Response = 1099442894 Manual Peak Response = 1891811359 M4
M4 = Poor automated baseline construction.

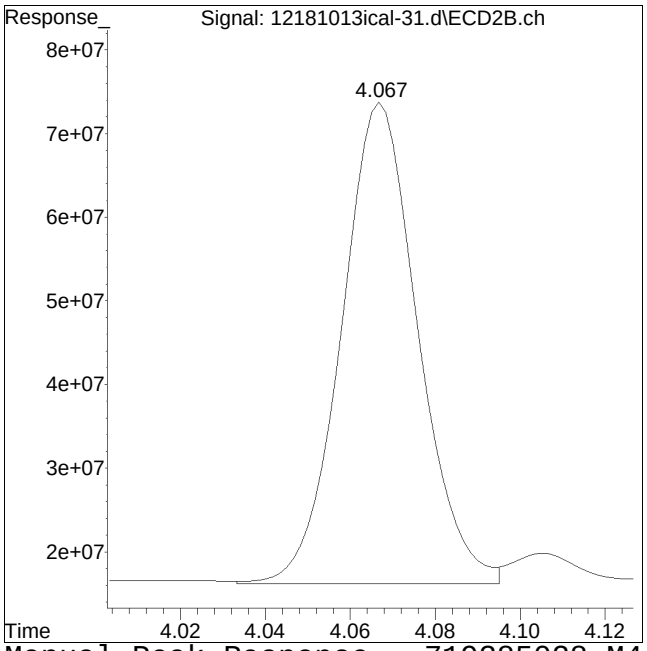
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-31.d
Date Inj'd : 10/13/2018 5:17 pm
Sample : il51660,42e,,8757

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:40 am

Compound #58: 1016-4 #2





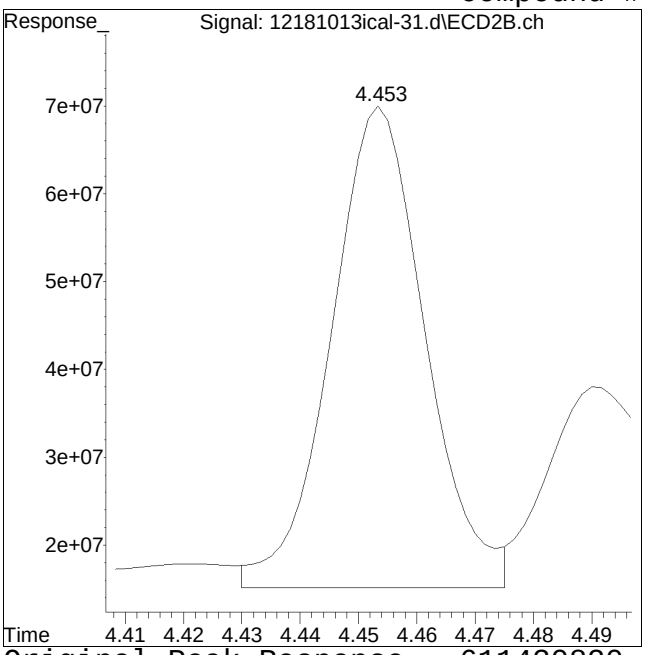
Original Peak Response = 753671662 Manual Peak Response = 719385028 M4
M4 = Poor automated baseline construction.

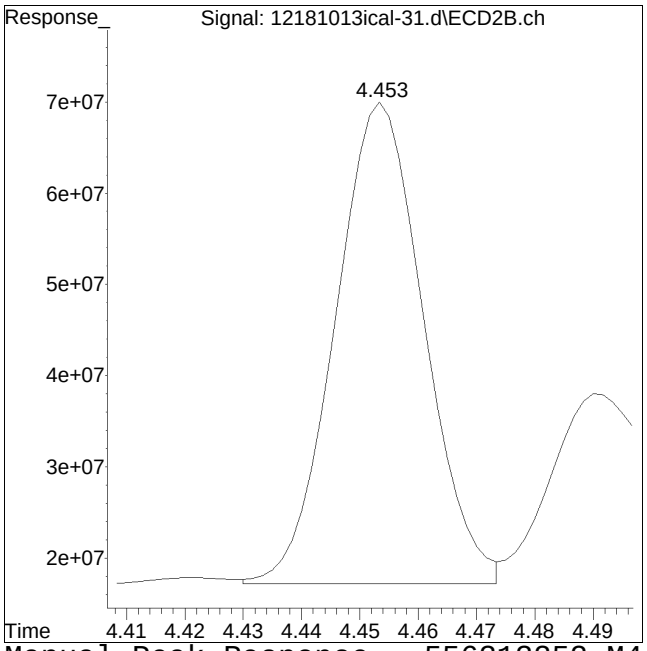
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-31.d
Date Inj'd : 10/13/2018 5:17 pm
Sample : il51660,42e,,8757

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:40 am

Compound #59: 1016-5 #2





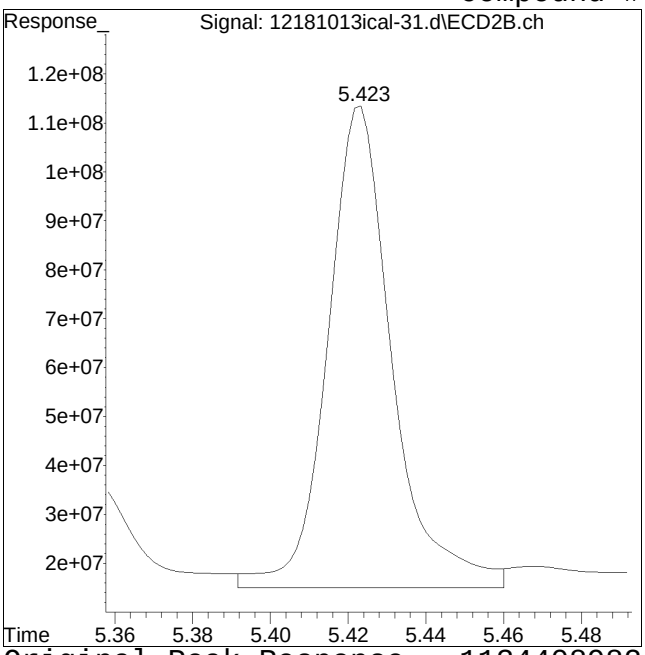
Original Peak Response = 611430820 Manual Peak Response = 556313252 M4
M4 = Poor automated baseline construction.

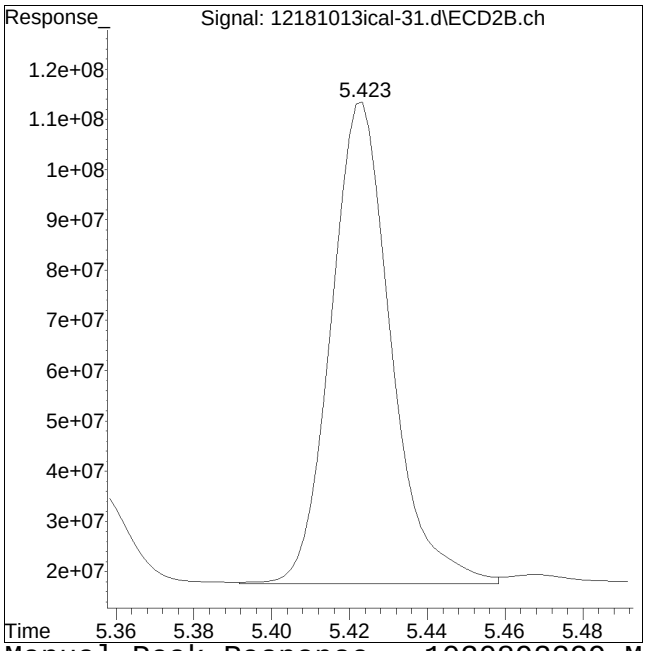
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-31.d
Date Inj'd : 10/13/2018 5:17 pm
Sample : il51660,42e,,8757

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:40 am

Compound #60: 1260-1 #2





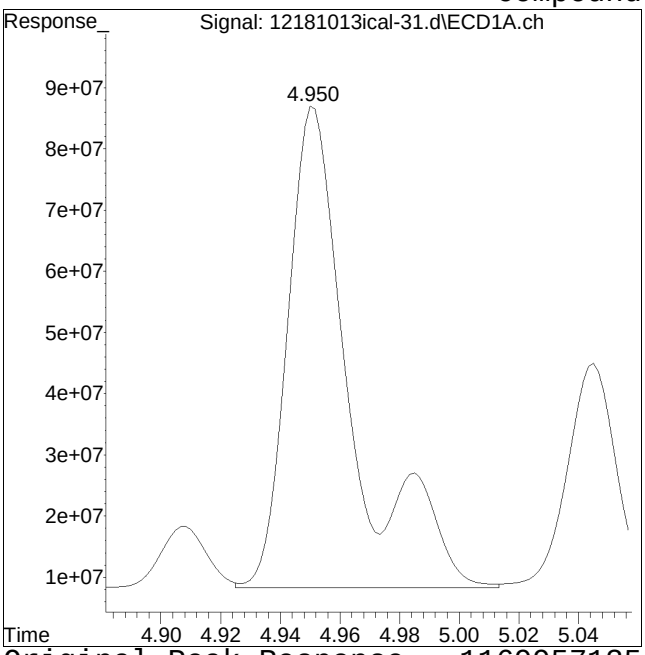
Original Peak Response = 1134408982 Manual Peak Response = 1030892329 M4
M4 = Poor automated baseline construction.

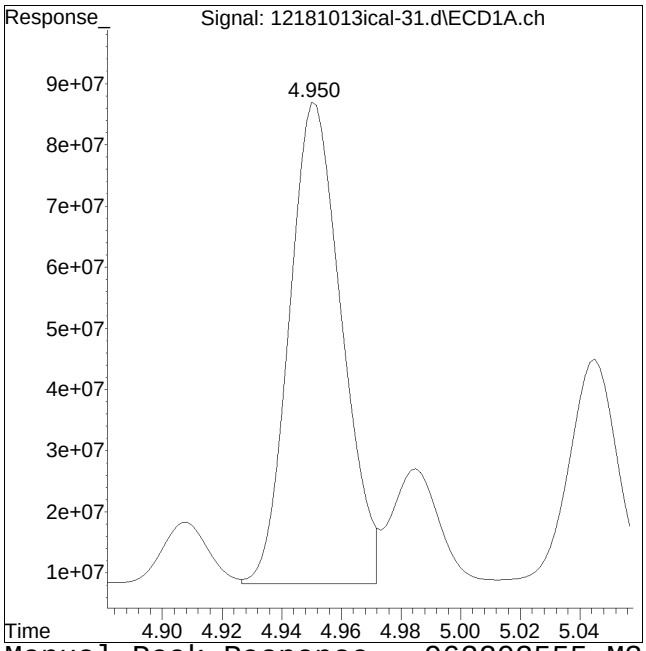
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-31.d
Date Inj'd : 10/13/2018 5:17 pm
Sample : il51660,42e,,8757

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:40 am

Compound #10: 1260-2





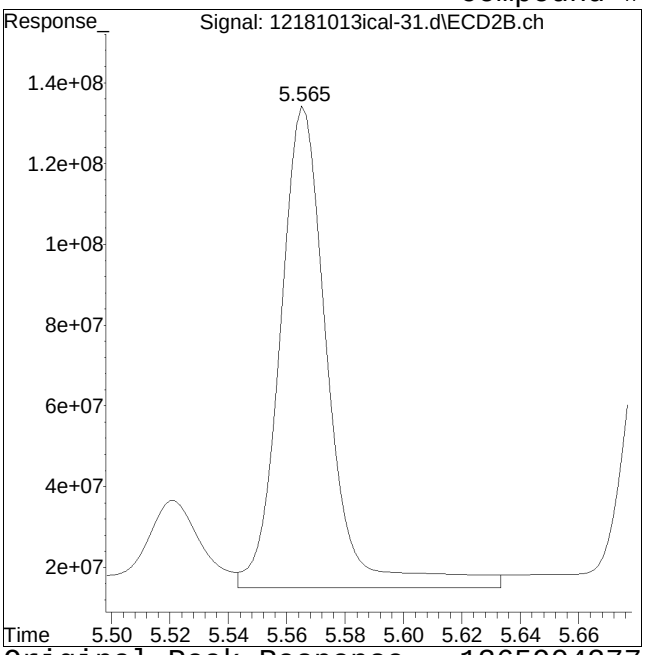
Original Peak Response = 1169957135 Manual Peak Response = 962203555 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

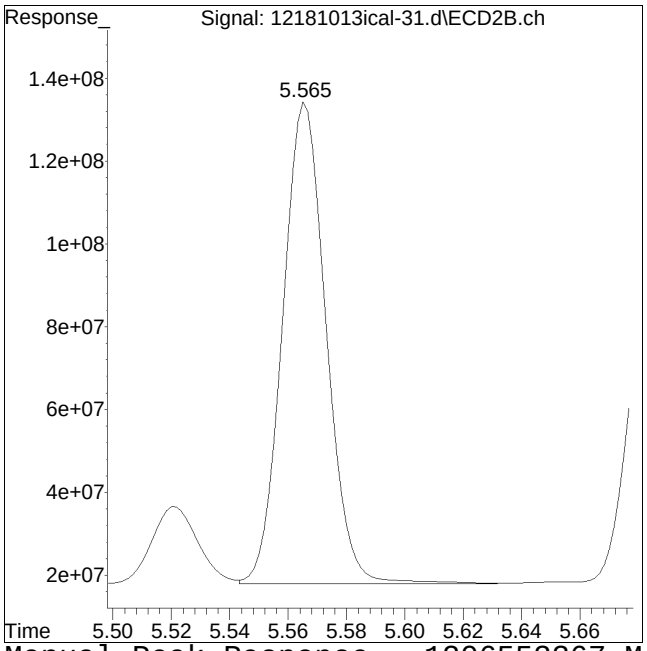
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-31.d
Date Inj'd : 10/13/2018 5:17 pm
Sample : il51660,42e,,8757

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:40 am

Compound #61: 1260-2 #2





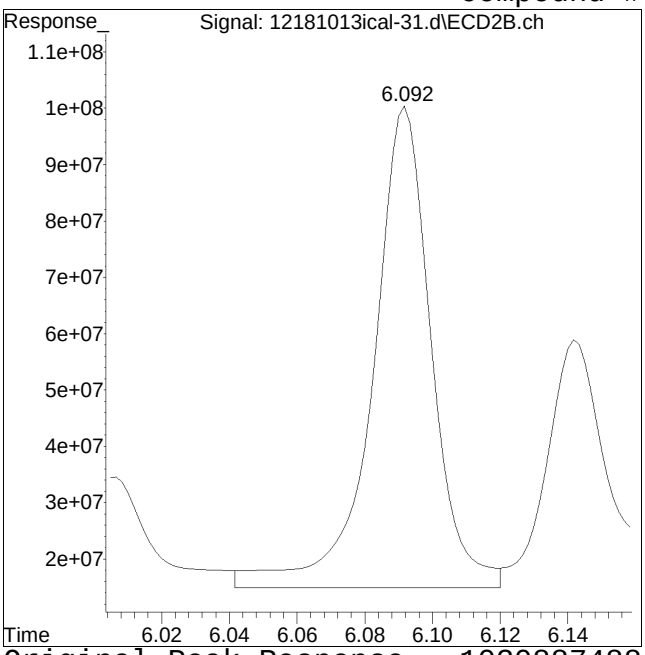
Original Peak Response = 1365904277 Manual Peak Response = 1206553367 M4
M4 = Poor automated baseline construction.

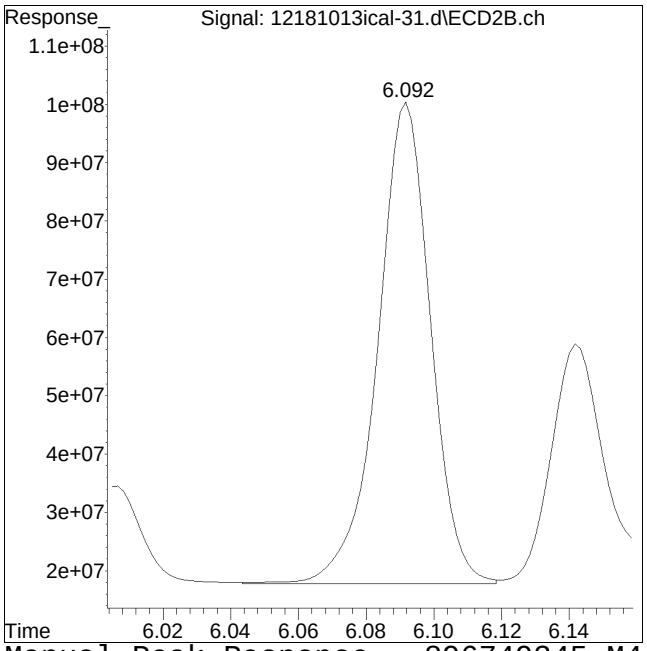
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-31.d
Date Inj'd : 10/13/2018 5:17 pm
Sample : il51660,42e,,8757

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:40 am

Compound #62: 1260-3 #2





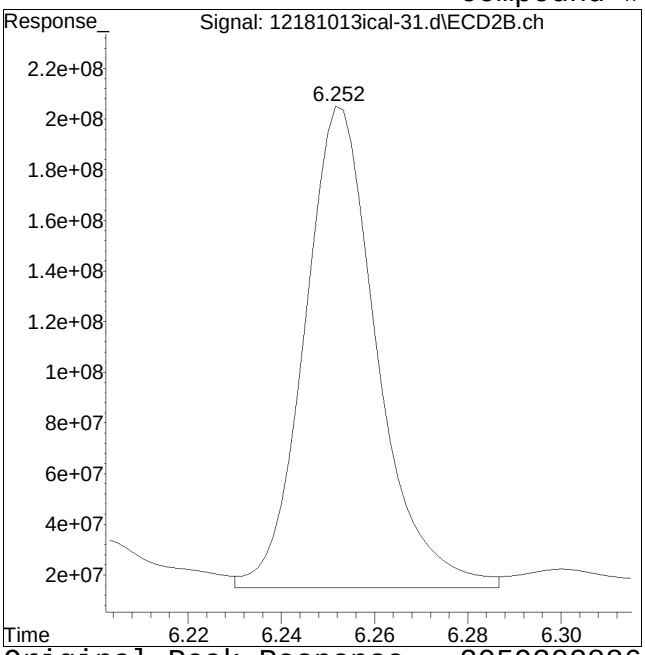
Original Peak Response = 1030887488 Manual Peak Response = 896749345 M4
M4 = Poor automated baseline construction.

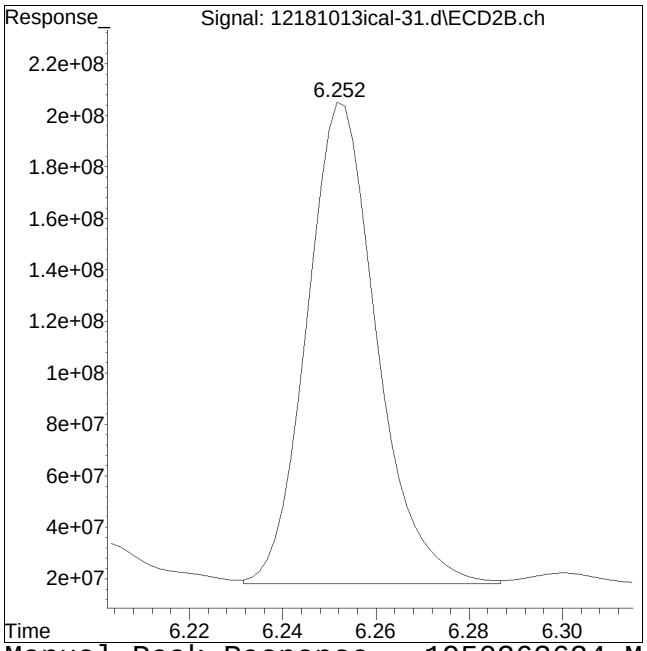
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-31.d
Date Inj'd : 10/13/2018 5:17 pm
Sample : il51660,42e,,8757

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:40 am

Compound #63: 1260-4 #2



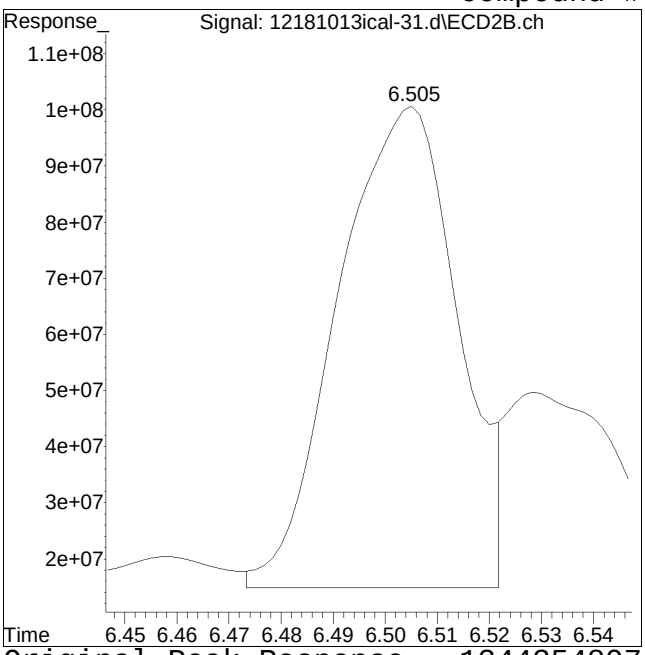


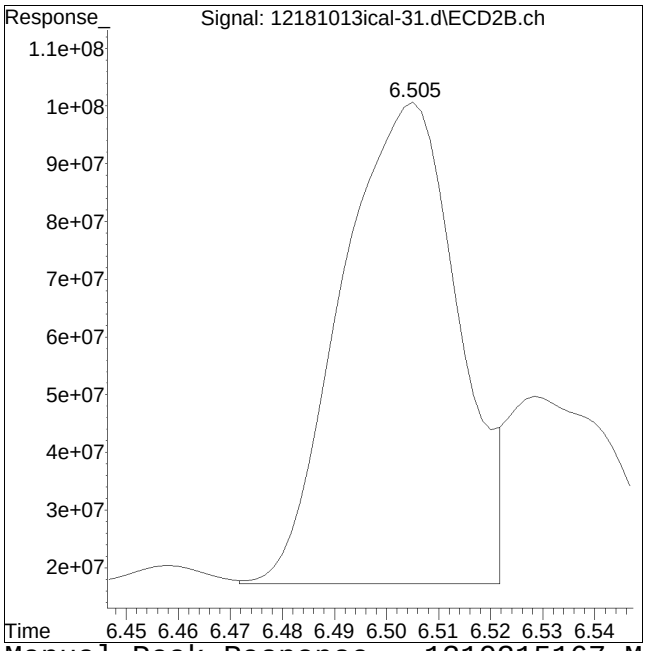
Original Peak Response = 2059302886 Manual Peak Response = 1950263624 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path	: I:\Pest12\181013ical\	QMethod	: P12_pcb_10-13-18_ugL_.m
Data File	: 12181013ical-31.d	Operator	: Pest12:kb
Date Inj'd	: 10/13/2018 5:17 pm	Instrument	: Pest 12
Sample	: il51660,42e,,8757	Quant Date	: 10/16/2018 8:40 am

Compound #64: 1260-5 #2





Original Peak Response = 1344354897 Manual Peak Response = 1310315167 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-32.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 5:30 pm
Operator : Pest12:kb
Sample : il61660,42e,,8756
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 08:53:07 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 08:47:59 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	2.069	2.224	748.2E6	1121.7E6	250.000M4	250.000M4
14) i	2154_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
23) i	4268_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
34) i	1248_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
40) i	3262_1br2nb	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.544	2.860	1847.8E6	2932.7E6	606.835M4	602.741M4
	Spiked Amount 500.000	Range 30 - 150		Recovery =		121.37%	120.55%
3) s	Decachlorobi	6.565	7.279	2253.0E6	3619.0E6	1249.060	1275.890
	Spiked Amount 500.000	Range 30 - 150		Recovery =		249.81%#	255.18%#
	Target Compounds						
4) l1	1016-1	2.779	3.231	472.2E6	756.4E6	9142.768	9086.724M4
5) l1	1016-2	3.023	3.559	1012.6E6	1684.0E6	9121.526	9073.948M4
6) l1	1016-3	3.365	3.952	2105.7E6	3545.0E6	9339.754M1	9287.992M1
7) l1	1016-4	3.467	4.067	869.8E6	1340.5E6	9030.467	9268.416M4
8) l1	1016-5	3.786	4.453	941.1E6	1057.0E6	9445.850M1	9391.046M4
Sum	1016-1			5401.4E6	8382.9E6	46080.364	46108.125
Average	1016-1					9216.073	9221.625
9) l2	1260-1	4.744	5.423	1252.0E6	1960.6E6	9443.212	9473.063M4
10) l2	1260-2	4.951	5.565	1857.3E6	2324.8E6	9440.591	9562.687M4
11) l2	1260-3	5.418	6.091	1177.2E6	1732.1E6	9658.892	9613.921M4
12) l2	1260-4	5.633	6.253	2647.5E6	3827.2E6	9375.697M1	9800.584M4
13) l2	1260-5	5.833	6.505	1754.7E6	2586.2E6	9629.830	9921.812M4
Sum	1260-1			8688.7E6	12430.8E6	NoCal	NoCal D

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-32.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 5:30 pm
Operator : Pest12:kb
Sample : il61660,42e,,8756
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 08:53:07 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 08:47:59 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1260-1					9509.644	9674.413
15) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
18) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
22) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
24) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
28) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
29) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
33) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
35) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-32.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 5:30 pm
Operator : Pest12:kb
Sample : il61660,42e,,8756
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 08:53:07 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 08:47:59 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
36) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
39) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
41) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
45) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
46) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
50) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

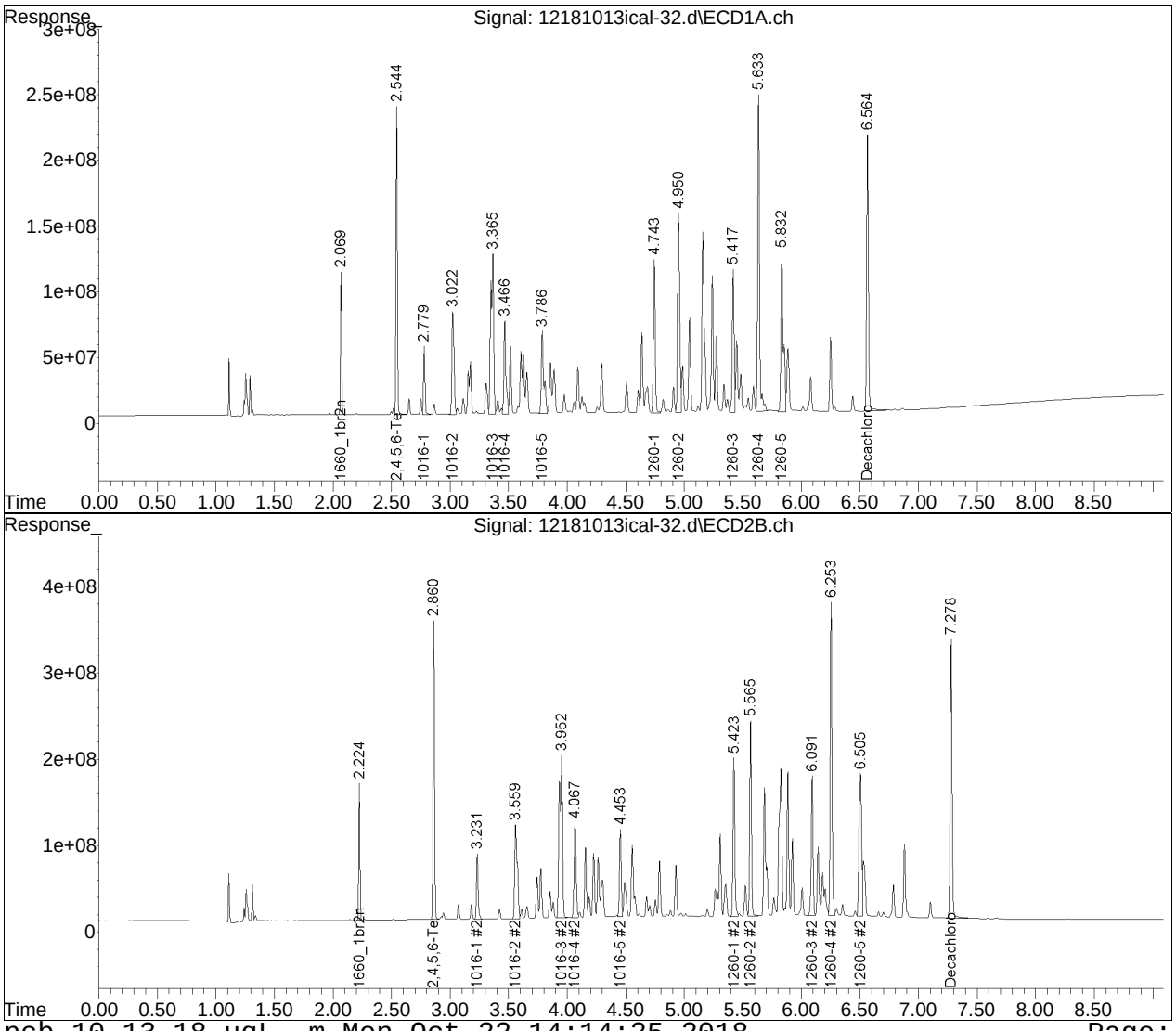
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-32.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 5:30 pm
Operator : Pest12:kb
Sample : il61660,42e,,8756
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 08:53:07 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 08:47:59 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

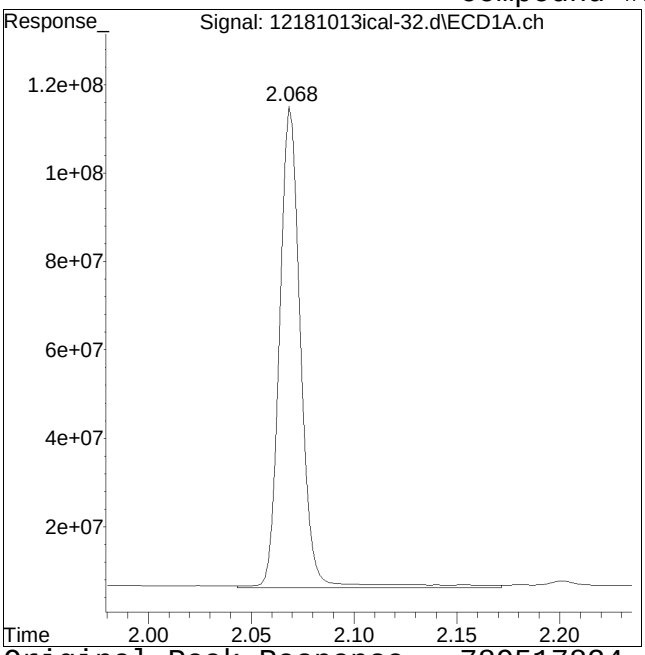


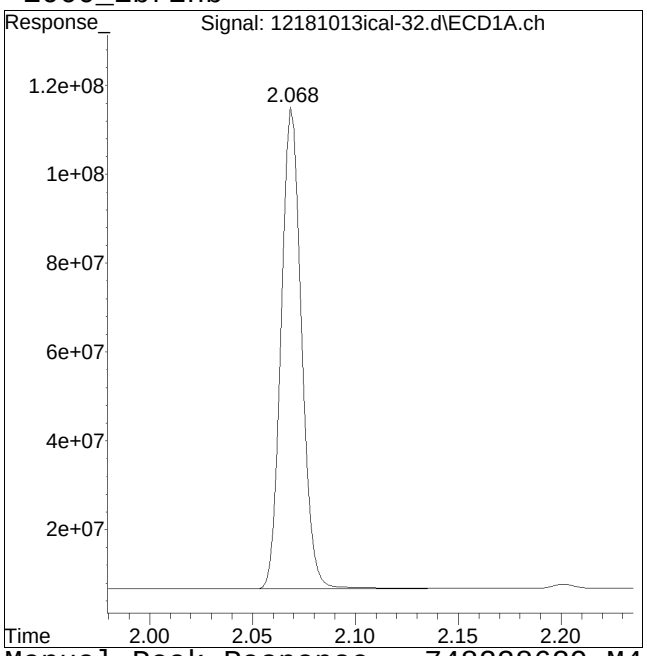
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-32.d
Date Inj'd : 10/13/2018 5:30 pm
Sample : il61660,42e,,8756

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:48 am

Compound #1: 1660_1br2nb





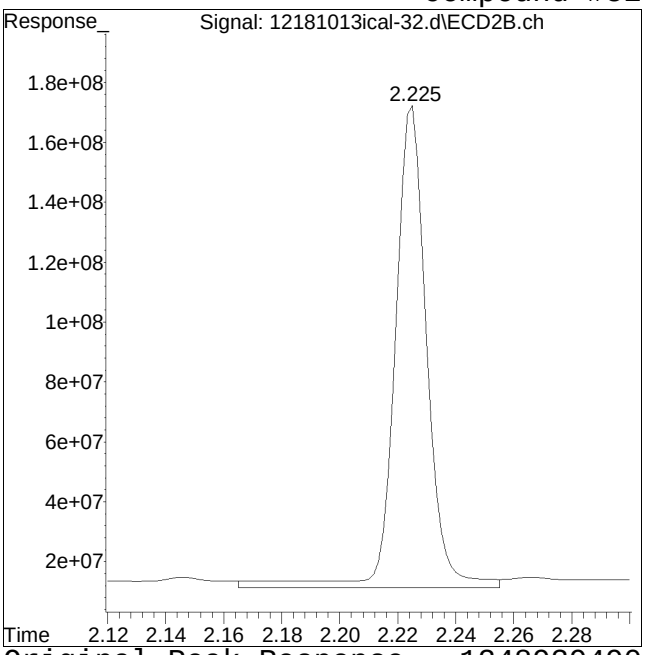
Original Peak Response = 789517824 Manual Peak Response = 748228629 M4
M4 = Poor automated baseline construction.

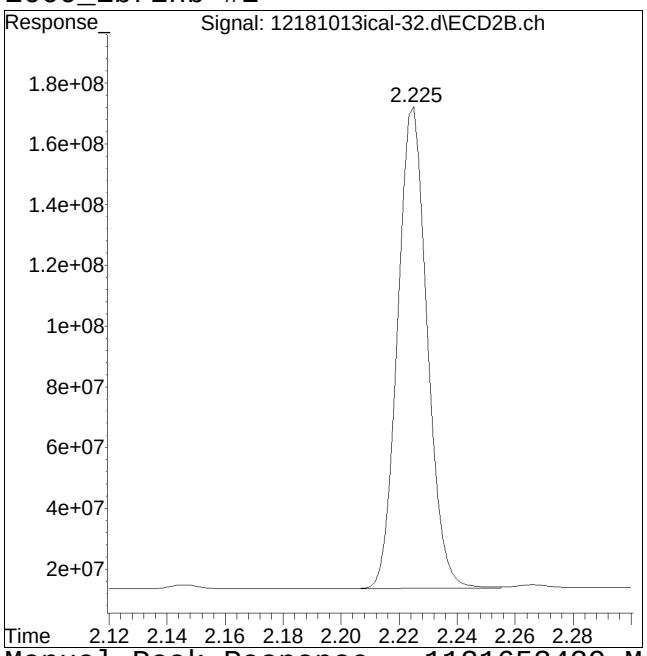
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-32.d
Date Inj'd : 10/13/2018 5:30 pm
Sample : il61660,42e,,8756

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:48 am

Compound #52: 1660_1br2nb #2





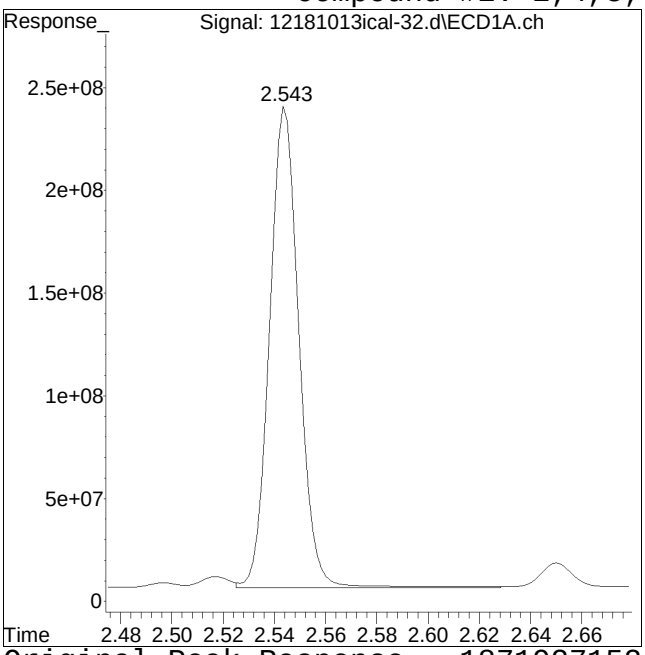
Original Peak Response = 1248939490 Manual Peak Response = 1121653429 M4
M4 = Poor automated baseline construction.

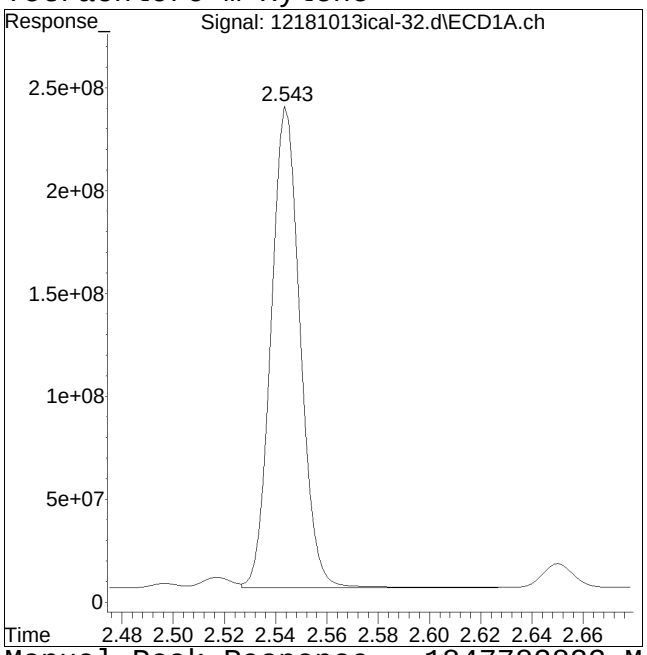
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-32.d
Date Inj'd : 10/13/2018 5:30 pm
Sample : il61660,42e,,8756

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:48 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene





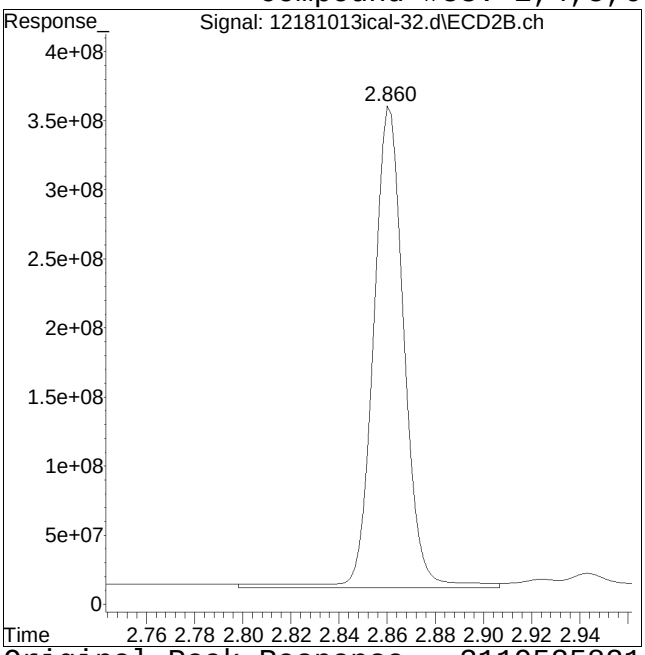
Original Peak Response = 1871927152 Manual Peak Response = 1847783823 M4
M4 = Poor automated baseline construction.

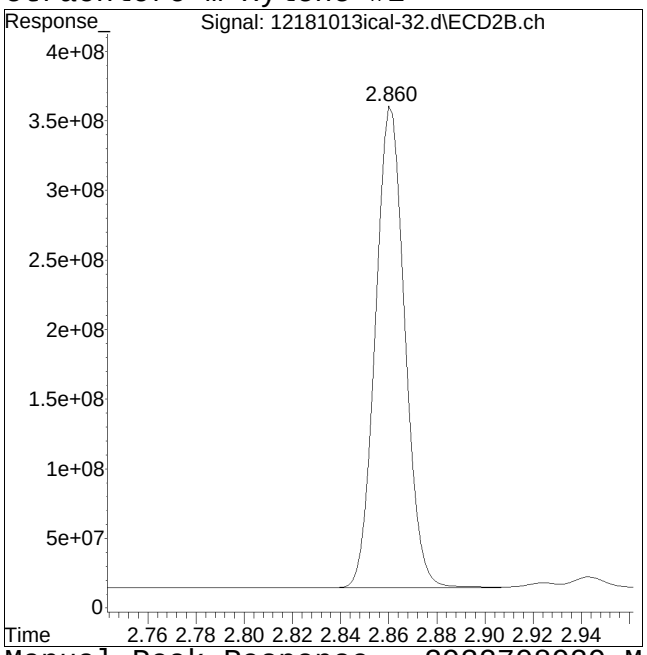
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-32.d
Date Inj'd : 10/13/2018 5:30 pm
Sample : il61660,42e,,8756

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:48 am

Compound #53: 2,4,5,6-Tetrachloro-m-xylene #2





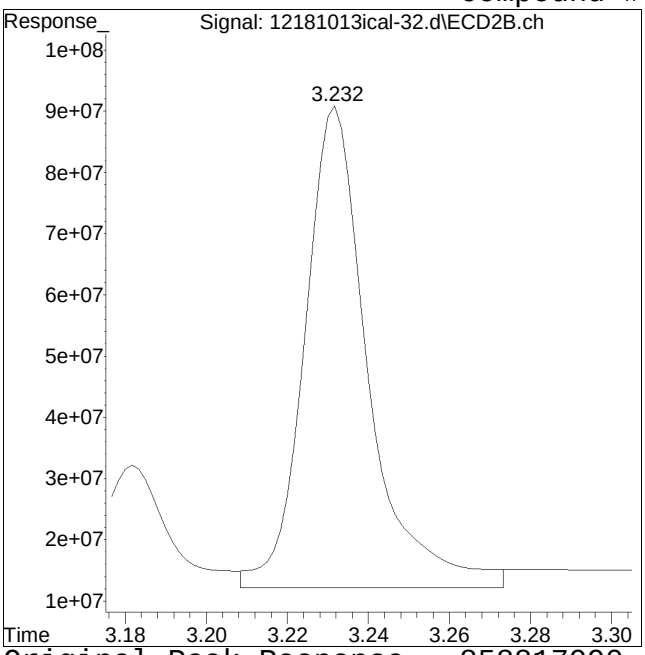
Original Peak Response = 3119525821 Manual Peak Response = 2932708929 M4
M4 = Poor automated baseline construction.

Manual Integration Report

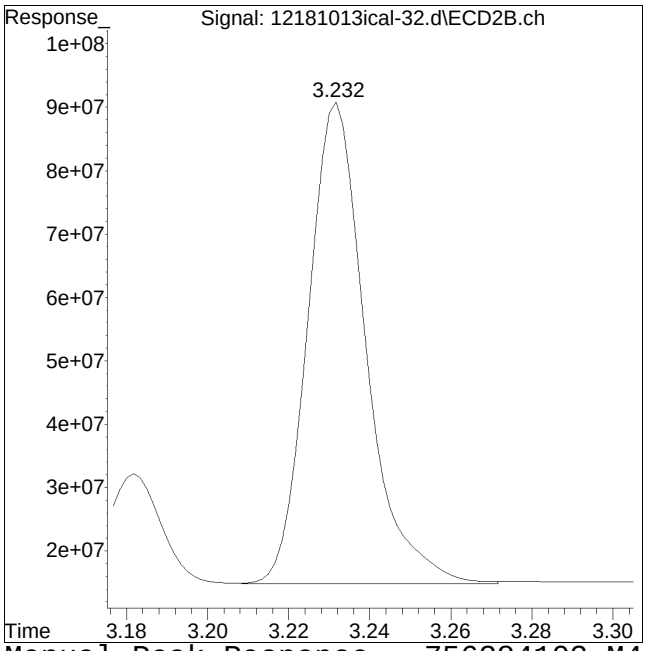
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-32.d
Date Inj'd : 10/13/2018 5:30 pm
Sample : il61660,42e,,8756

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:48 am

Compound #55: 1016-1 #2



Original Peak Response = 858817990



Manual Peak Response = 756384103 M4

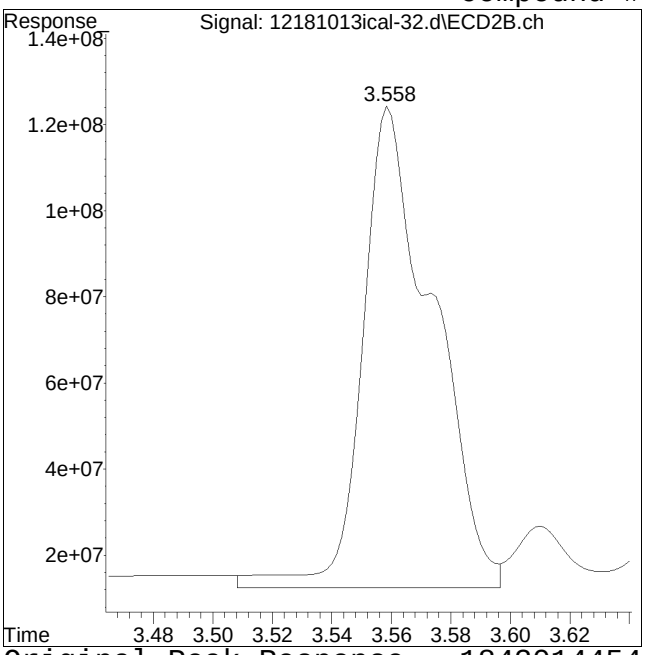
M4 = Poor automated baseline construction.

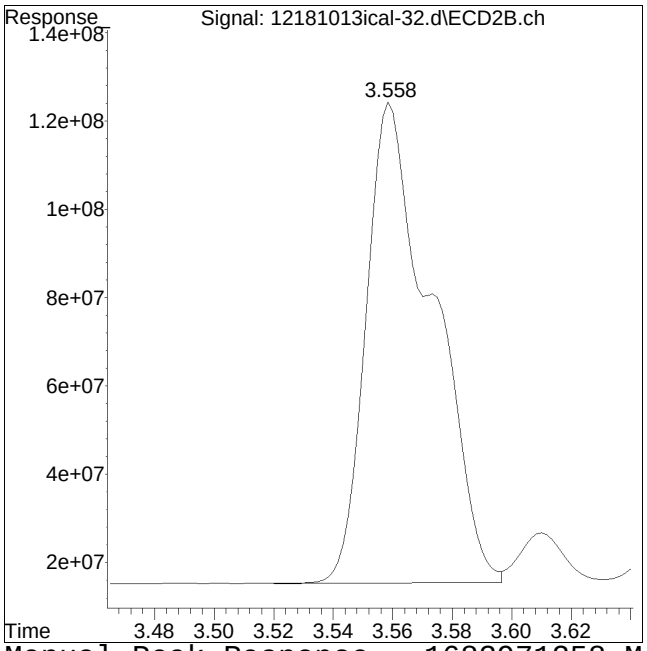
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-32.d
Date Inj'd : 10/13/2018 5:30 pm
Sample : il61660,42e,,8756

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:48 am

Compound #56: 1016-2 #2





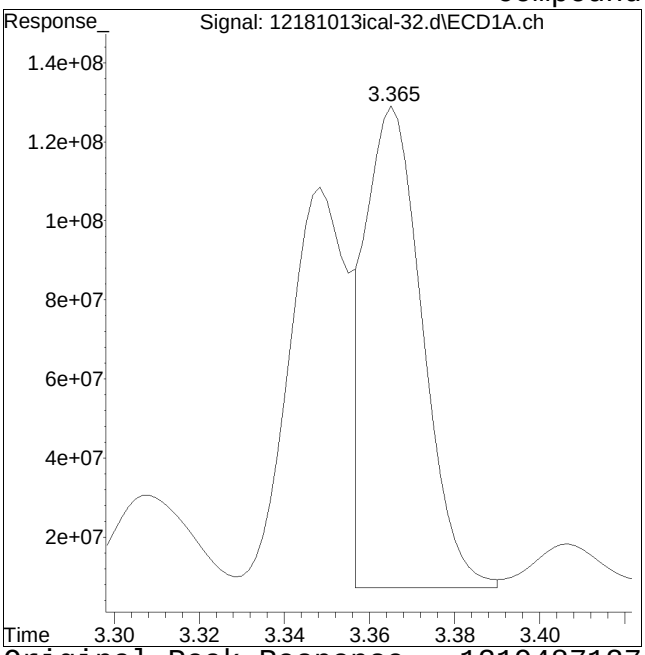
Original Peak Response = 1843014454 Manual Peak Response = 1683971258 M4
M4 = Poor automated baseline construction.

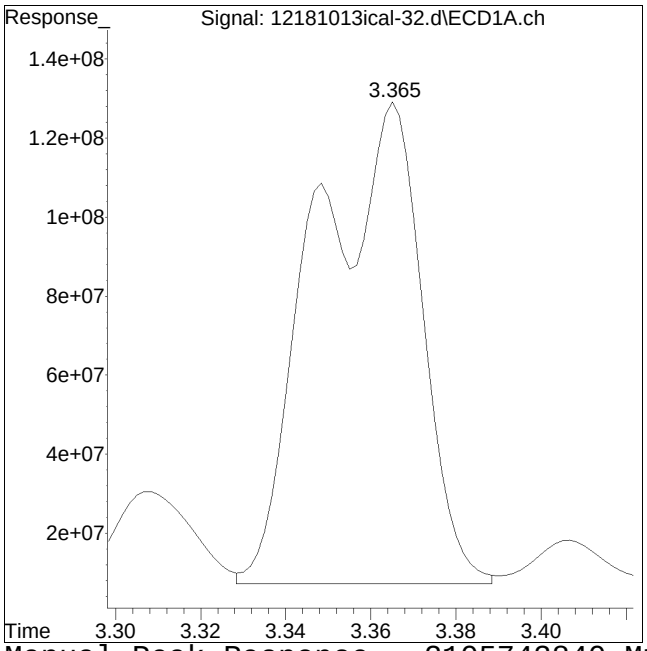
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-32.d
Date Inj'd : 10/13/2018 5:30 pm
Sample : il61660,42e,,8756

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:48 am

Compound #6: 1016-3





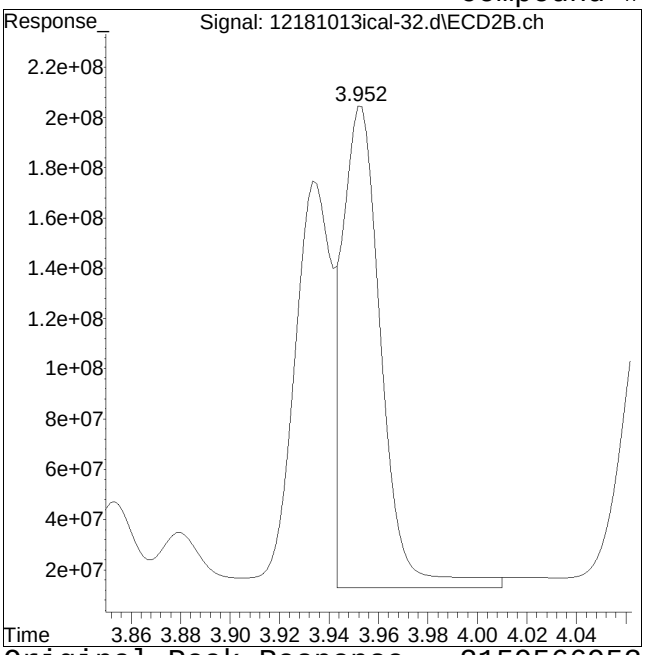
Original Peak Response = 1219487127 Manual Peak Response = 2105743840 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

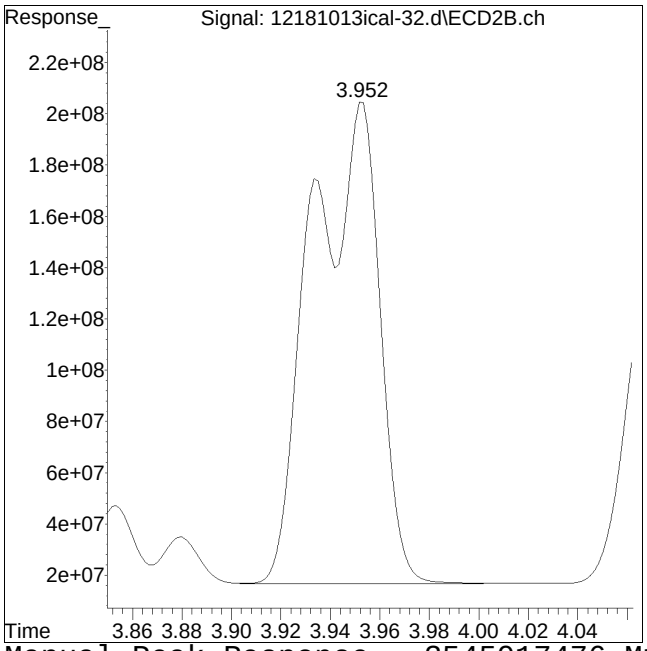
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-32.d
Date Inj'd : 10/13/2018 5:30 pm
Sample : il61660,42e,,8756

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:48 am

Compound #57: 1016-3 #2





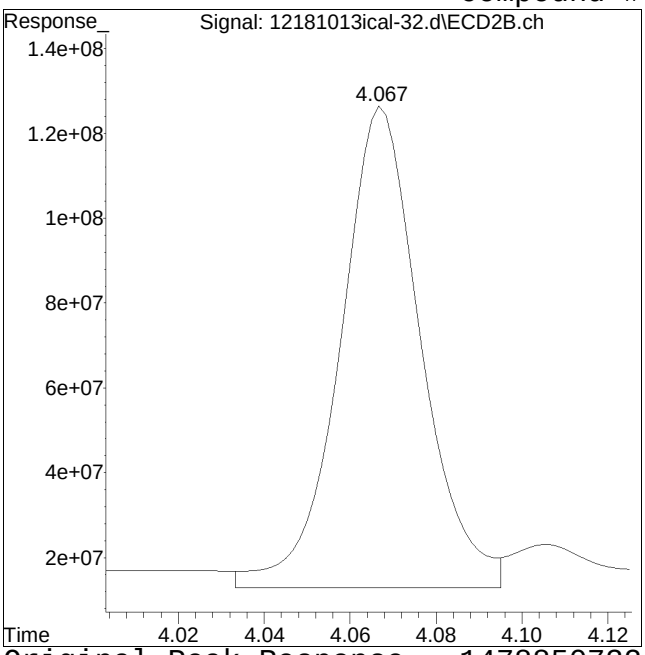
Original Peak Response = 2159566953 Manual Peak Response = 3545017476 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

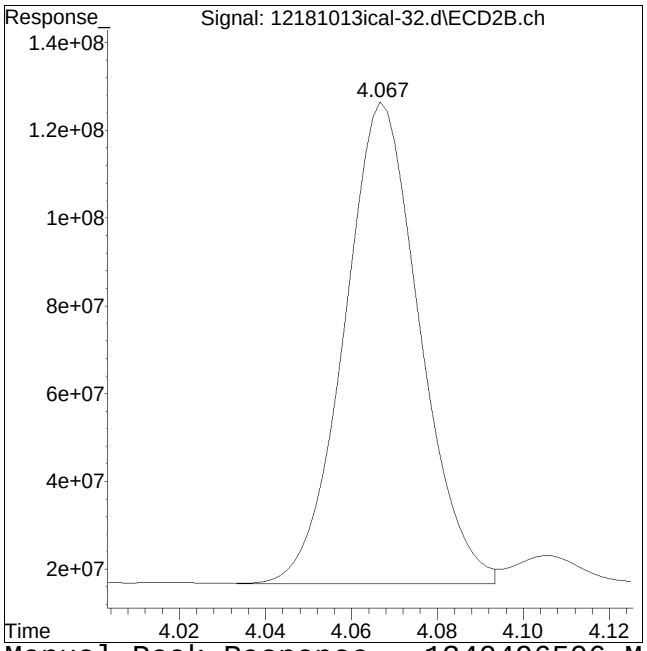
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-32.d
Date Inj'd : 10/13/2018 5:30 pm
Sample : il61660,42e,,8756

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:48 am

Compound #58: 1016-4 #2





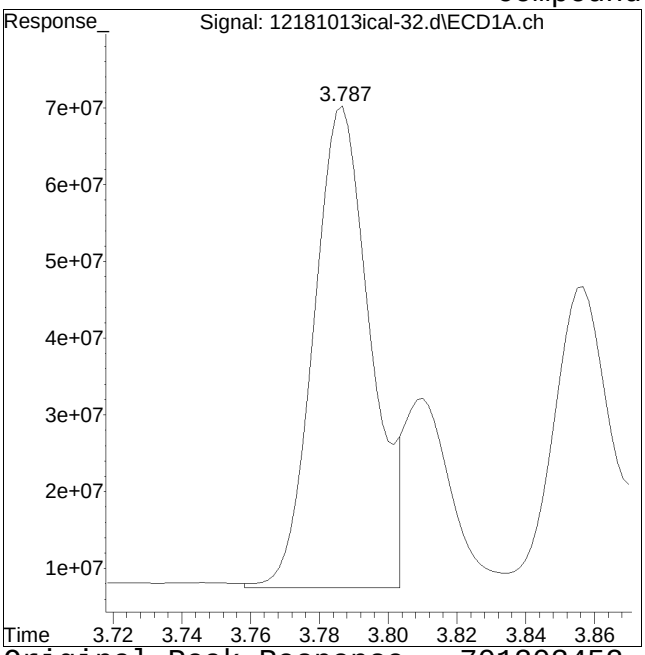
Original Peak Response = 1478850732 Manual Peak Response = 1340496506 M4
M4 = Poor automated baseline construction.

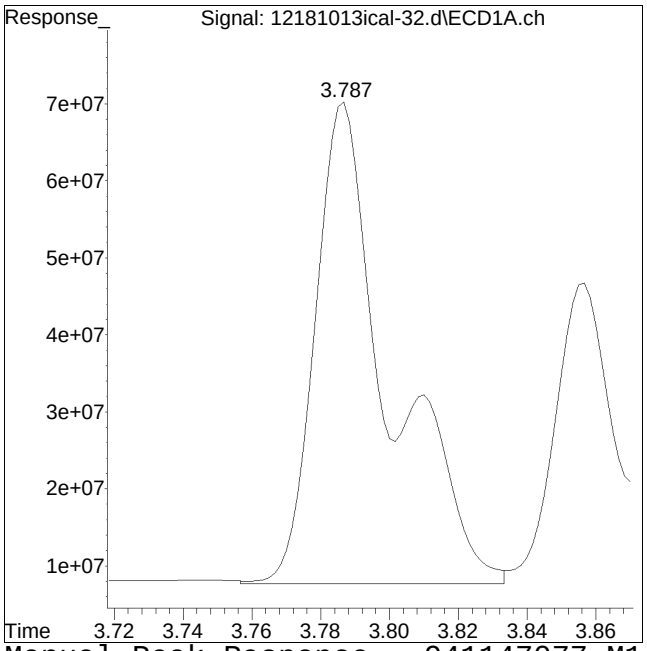
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-32.d
Date Inj'd : 10/13/2018 5:30 pm
Sample : il61660,42e,,8756

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:48 am

Compound #8: 1016-5





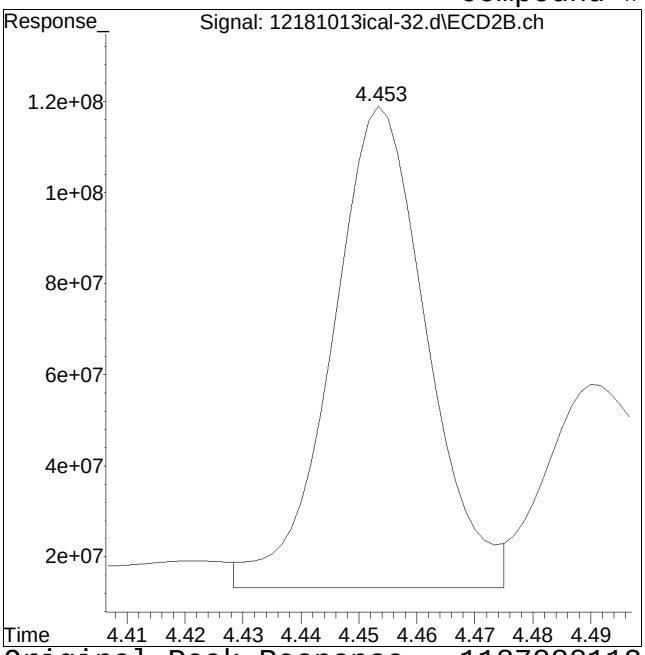
Original Peak Response = 701303452 Manual Peak Response = 941147077 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

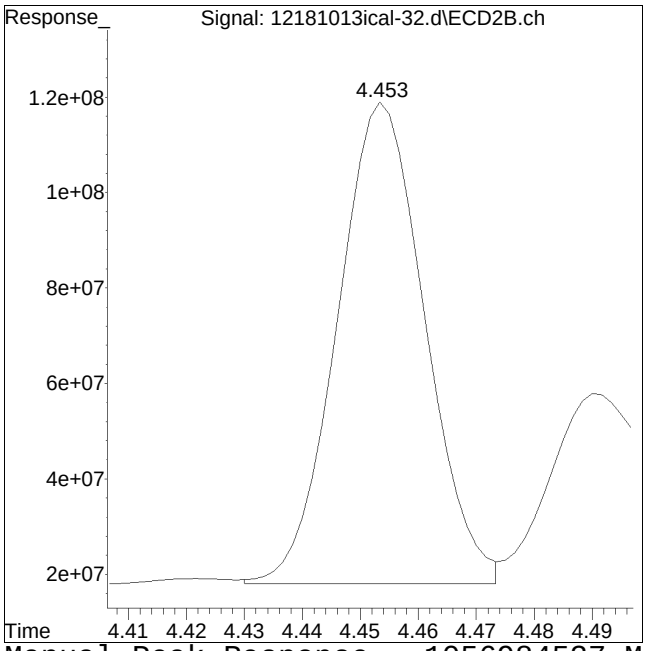
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-32.d
Date Inj'd : 10/13/2018 5:30 pm
Sample : il61660,42e,,8756

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:48 am

Compound #59: 1016-5 #2





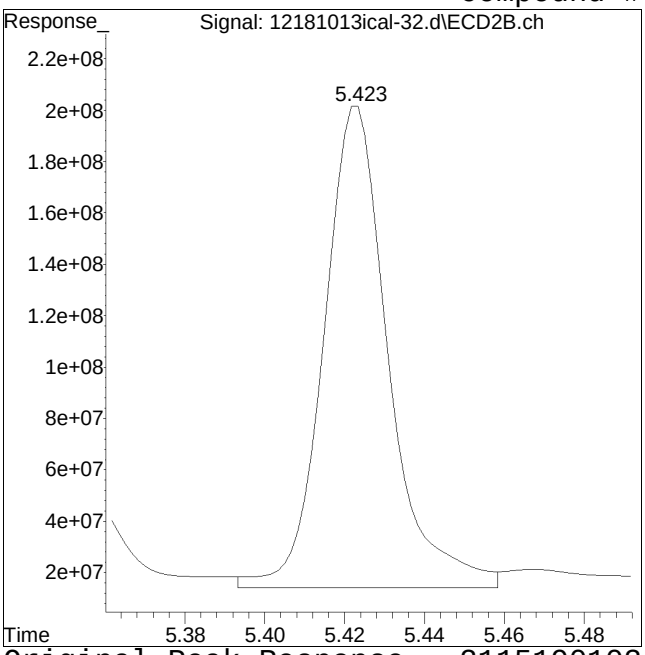
Original Peak Response = 1187888112 Manual Peak Response = 1056984537 M4
M4 = Poor automated baseline construction.

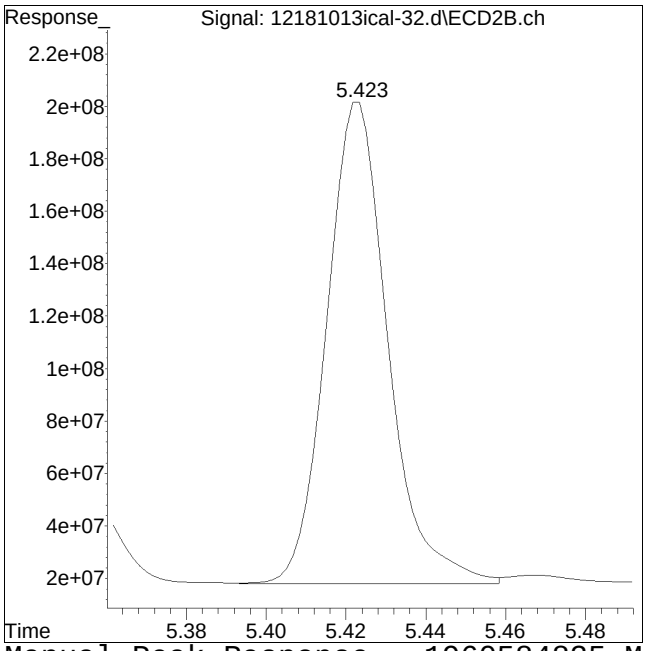
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-32.d
Date Inj'd : 10/13/2018 5:30 pm
Sample : il61660,42e,,8756

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:48 am

Compound #60: 1260-1 #2





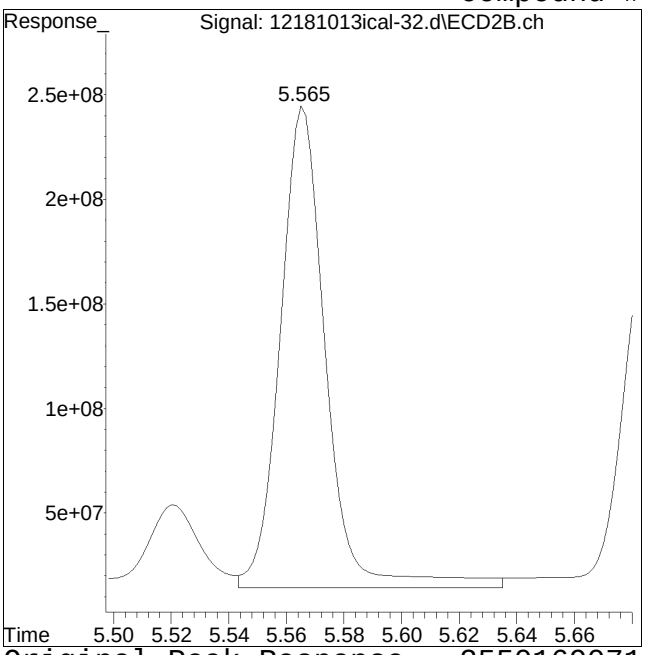
Original Peak Response = 2115190103 Manual Peak Response = 1960584835 M4
M4 = Poor automated baseline construction.

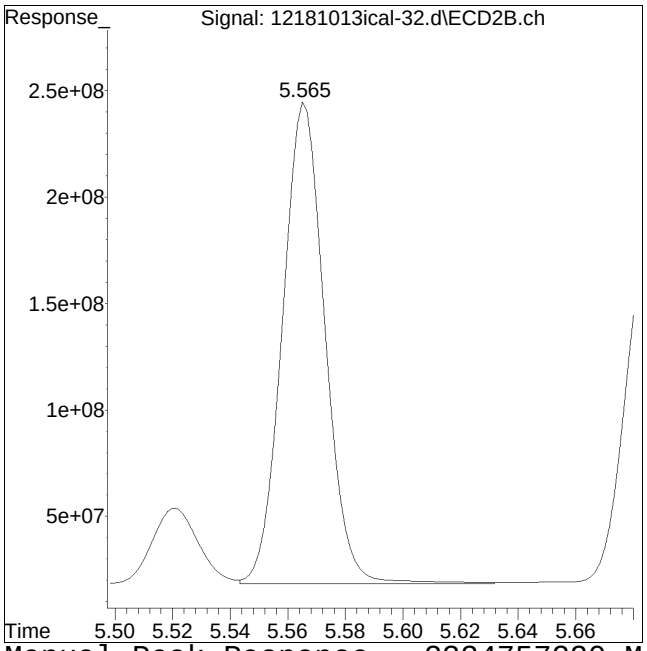
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-32.d
Date Inj'd : 10/13/2018 5:30 pm
Sample : il61660,42e,,8756

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:48 am

Compound #61: 1260-2 #2





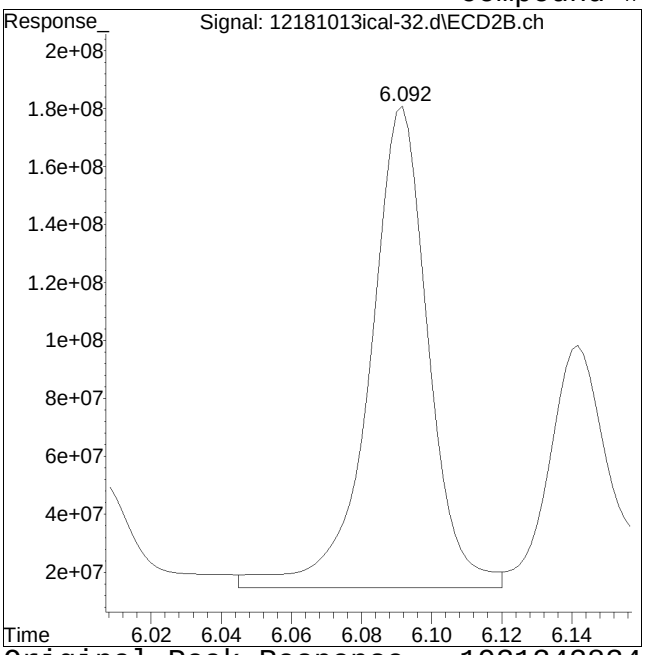
Original Peak Response = 2550169071 Manual Peak Response = 2324757220 M4
M4 = Poor automated baseline construction.

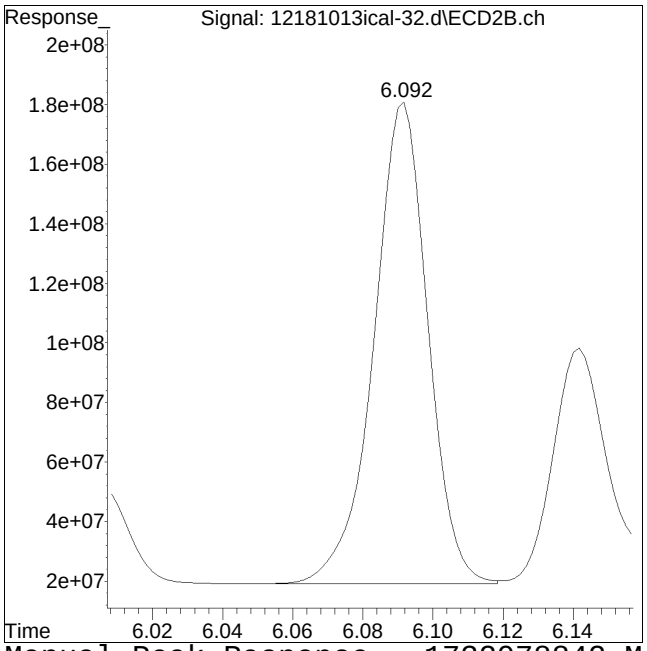
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-32.d
Date Inj'd : 10/13/2018 5:30 pm
Sample : il61660,42e,,8756

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:48 am

Compound #62: 1260-3 #2





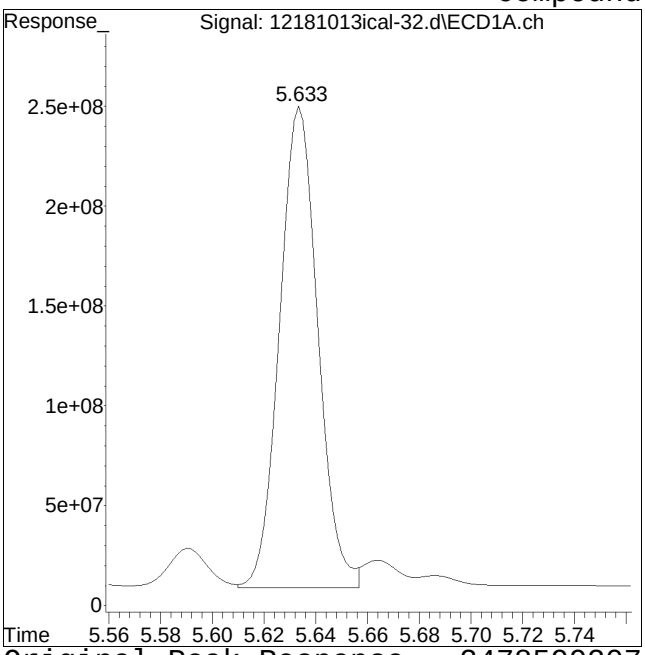
Original Peak Response = 1931343834 Manual Peak Response = 1732078842 M4
M4 = Poor automated baseline construction.

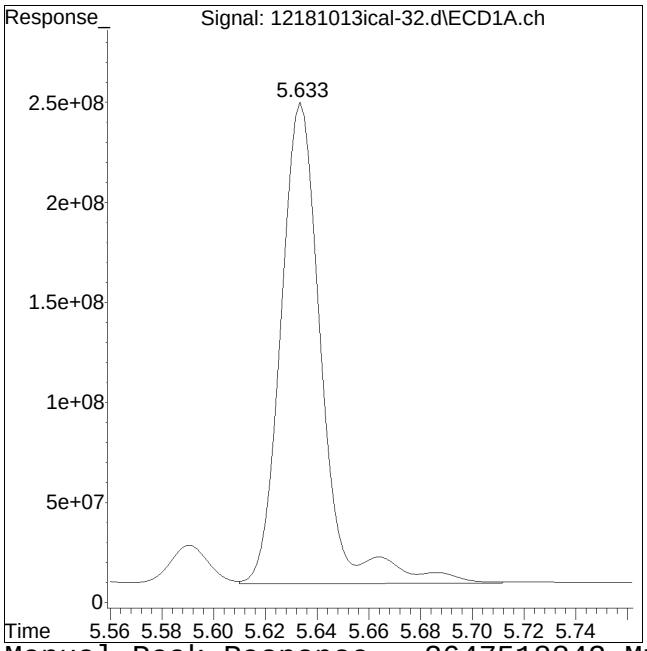
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-32.d
Date Inj'd : 10/13/2018 5:30 pm
Sample : il61660,42e,,8756

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:48 am

Compound #12: 1260-4





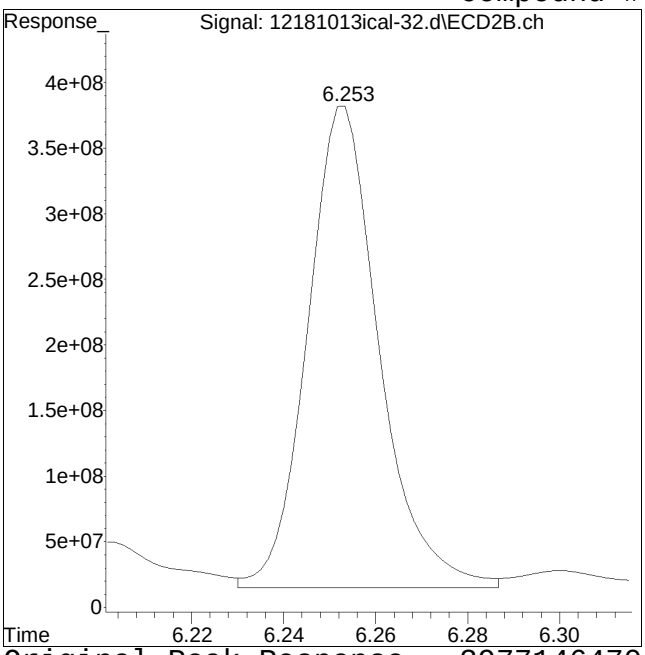
Original Peak Response = 2478599207 Manual Peak Response = 2647518843 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

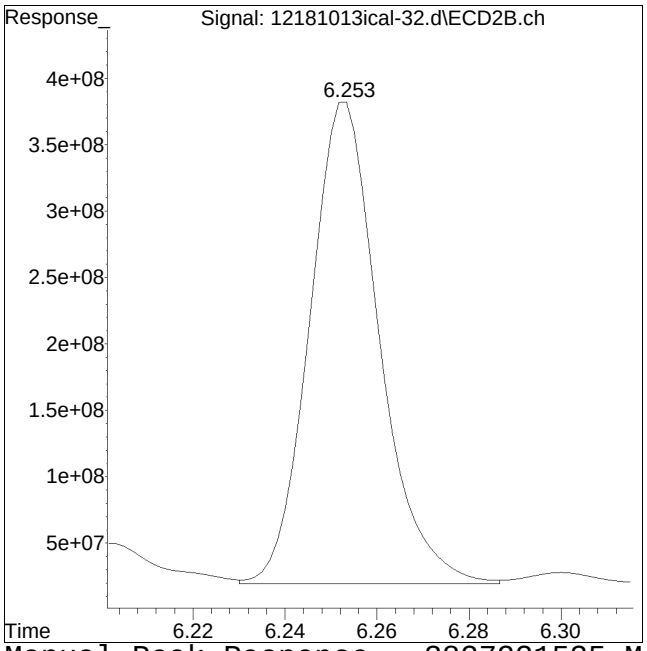
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-32.d
Date Inj'd : 10/13/2018 5:30 pm
Sample : il61660,42e,,8756

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:48 am

Compound #63: 1260-4 #2





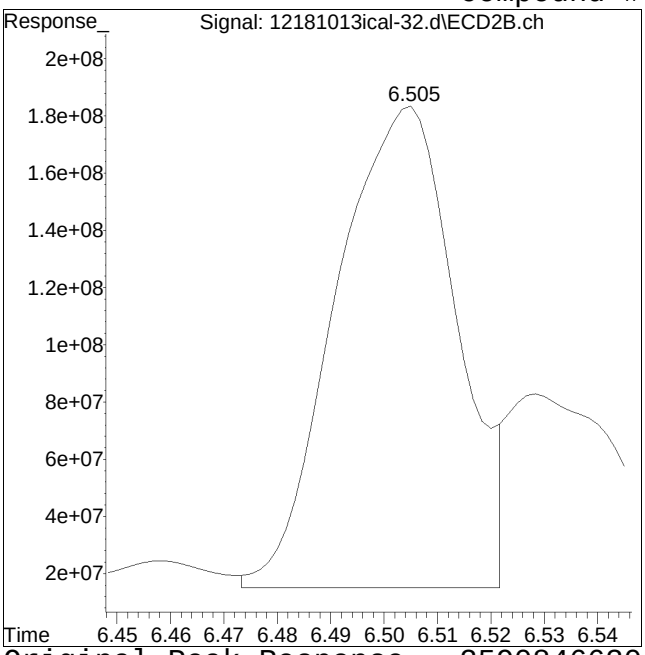
Original Peak Response = 3977146470 Manual Peak Response = 3827231535 M4
M4 = Poor automated baseline construction.

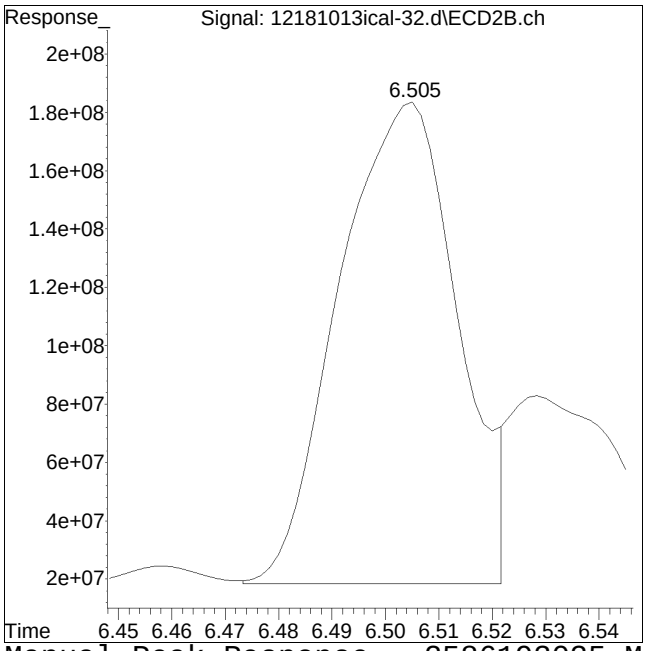
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-32.d
Date Inj'd : 10/13/2018 5:30 pm
Sample : il61660,42e,,8756

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 8:48 am

Compound #64: 1260-5 #2





Original Peak Response = 2590846630 Manual Peak Response = 2586193035 M4
M4 = Poor automated baseline construction.

Initial Calibration Verification

Evaluate Continuing Calibration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-33.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 13 Oct 2018   5:42 pm
Operator : Pest12:kb
Sample   : cicv4268,42e,,8848
Misc   : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 32   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 11:29:21 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 11:24:38 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	250.000	250.000	0.0	101	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen	160.000	172.902	-8.1	112	0.00
3	s	Decachlorobiphenyl	320.000	534.955	-67.2#	172	0.00
13	i	2154_1br2nb	250.000	250.000	0.0	100	0.00
22	i	4268_1br2nb	250.000	250.000	0.0	103	0.00
23	l6	1242-1	2500.000	2603.087	-4.1	107	0.00
24	l6	1242-2	2500.000	2491.323	0.3	104	0.00
25	l6	1242-3	2500.000	2454.114	1.8	102	0.00
26	l6	1242-4	2500.000	2482.488	0.7	102	0.00
27	l6	1242-5	2500.000	2474.663	1.0	97	0.00
28	l9	1268-1	2500.000	2377.848	4.9	98	0.00
29	l9	1268-2	2500.000	2136.709	14.5	88	0.00
30	l9	1268-3	2500.000	2729.474	-9.2	112	0.00
31	l9	1268-4	2500.000	2421.046	3.2	99	0.00
32	l9	1268-5	2500.000	2873.066	-14.9	118	0.00
33	i	1248_1br2nb	250.000	250.000	0.0	95	0.00
39	i	3262_1br2nb	250.000	250.000	0.0	98	0.00

Signal #2

1	i	1660_1br2nb	250.000	250.000	0.0	100	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl	160.000	162.250	-1.4	105	0.00
3	s	Decachlorobiphenyl	320.000	501.755	-56.8#	162	0.00
13	i	2154_1br2nb	250.000	250.000	0.0	98	0.00

Evaluate Continuing Calibration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-33.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 13 Oct 2018   5:42 pm
Operator : Pest12:kb
Sample   : cicv4268,42e,,8848
Misc   : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 32   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 11:29:21 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 11:24:38 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
22	i	4268_1br2nb	250.000	250.000	0.0	104	0.00
23	l6	1242-1	2500.000	2632.315	-5.3	105	0.00
24	l6	1242-2	2500.000	2531.312	-1.3	104	0.00
25	l6	1242-3	2500.000	2486.590	0.5	103	0.00
26	l6	1242-4	2500.000	2567.809	-2.7	102	0.00
27	l6	1242-5	2500.000	2626.461	-5.1	107	0.00
28	l9	1268-1	2500.000	2483.721	0.7	102	0.00
29	l9	1268-2	2500.000	2252.634	9.9	92	0.00
30	l9	1268-3	2500.000	2866.334	-14.7	117	0.00
31	l9	1268-4	2500.000	2498.839	0.0	101	0.00
32	l9	1268-5	2500.000	3003.675	-20.1#	123	0.00
33	i	1248_1br2nb	250.000	250.000	0.0	94	0.00
39	i	3262_1br2nb	250.000	250.000	0.0	97	0.00

Evaluate Continuing Calibration Report - Not Founds

4	l1	1016-1	2500.000	0.000	100.0#	0	-2.78#
5	l1	1016-2	2500.000	0.000	100.0#	0	-3.02#
6	l1	1016-3	2500.000	0.000	100.0#	0	-3.37#
7	l1	1016-4	2500.000	0.000	100.0#	0	-3.47#
8	l1	1016-5	2500.000	0.000	100.0#	0	-3.79#
9	l2	1260-2	2500.000	0.000	100.0#	0	-4.95#
10	l2	1260-3	2500.000	0.000	100.0#	0	-5.42#
11	l2	1260-4	2500.000	0.000	100.0#	0	-5.63#
12	l2	1260-5	2500.000	0.000	100.0#	0	-5.83#
14	l3	1221-1	2500.000	0.000	100.0#	0	-2.65#
15	l3	1221-2	2500.000	0.000	100.0#	0	-2.75#
16	l3	1221-3	2500.000	0.000	100.0#	0	-2.78#
17	l4	1254-1	2500.000	0.000	100.0#	0	-4.09#

Evaluate Continuing Calibration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-33.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 13 Oct 2018   5:42 pm
Operator : Pest12:kb
Sample   : cicv4268,42e,,8848
Misc   : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 32   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 11:29:21 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 11:24:38 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
18	l4	1254-2	2500.000	0.000	100.0#	0	-4.29#
19	l4	1254-3	2500.000	0.000	100.0#	0	-4.61#
20	l4	1254-4	2500.000	0.000	100.0#	0	-4.82#
21	l4	1254-5	2500.000	0.000	100.0#	0	-5.16#
34	l7	1248-1	2500.000	0.000	100.0#	0	-3.35#
35	l7	1248-2	2500.000	0.000	100.0#	0	-3.61#
36	l7	1248-3	2500.000	0.000	100.0#	0	-3.79#
37	l7	1248-4	2500.000	0.000	100.0#	0	-4.13#
38	l7	1248-5	2500.000	0.000	100.0#	0	-4.15#
40	l5	1232-1	2500.000	0.000	100.0#	0	-2.78#
41	l5	1232-2	2500.000	0.000	100.0#	0	-3.02#
42	l5	1232-3	2500.000	0.000	100.0#	0	-3.37#
43	l5	1232-4	2500.000	0.000	100.0#	0	-3.47#
44	l5	1232-5	2500.000	0.000	100.0#	0	-4.13#
45	l8	1262-1	2500.000	0.000	100.0#	0	-4.95#
46	l8	1262-2	2500.000	0.000	100.0#	0	-5.24#
47	l8	1262-3	2500.000	0.000	100.0#	0	-5.42#
48	l8	1262-4	2500.000	0.000	100.0#	0	-5.63#
49	l8	1262-5	2500.000	0.000	100.0#	0	-5.85#

Signal #2

4	l1	1016-1	2500.000	0.000	100.0#	0	-3.23#
5	l1	1016-2	2500.000	0.000	100.0#	0	-3.56#
6	l1	1016-3	2500.000	0.000	100.0#	0	-3.95#
7	l1	1016-4	2500.000	0.000	100.0#	0	-4.07#
8	l1	1016-5	2500.000	0.000	100.0#	0	-4.45#
9	l2	1260-2	2500.000	0.000	100.0#	0	-5.57#
10	l2	1260-3	2500.000	0.000	100.0#	0	-6.09#
11	l2	1260-4	2500.000	0.000	100.0#	0	-6.25#
12	l2	1260-5	2500.000	0.000	100.0#	0	-6.51#

Evaluate Continuing Calibration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-33.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 13 Oct 2018   5:42 pm
Operator : Pest12:kb
Sample   : cicv4268,42e,,8848
Misc   : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 32   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 11:29:21 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 11:24:38 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
14	l3	1221-1	2500.000	0.000	100.0#	0	-3.07#
15	l3	1221-2	2500.000	0.000	100.0#	0	-3.18#
16	l3	1221-3	2500.000	0.000	100.0#	0	-3.23#
17	l4	1254-1	2500.000	0.000	100.0#	0	-4.79#
18	l4	1254-2	2500.000	0.000	100.0#	0	-4.93#
19	l4	1254-3	2500.000	0.000	100.0#	0	-5.28#
20	l4	1254-4	2500.000	0.000	100.0#	0	-5.44#
21	l4	1254-5	2500.000	0.000	100.0#	0	-5.82#
34	l7	1248-1	2500.000	0.000	100.0#	0	-3.93#
35	l7	1248-2	2500.000	0.000	100.0#	0	-4.22#
36	l7	1248-3	2500.000	0.000	100.0#	0	-4.45#
37	l7	1248-4	2500.000	0.000	100.0#	0	-4.75#
38	l7	1248-5	2500.000	0.000	100.0#	0	-4.79#
40	l5	1232-1	2500.000	0.000	100.0#	0	-3.23#
41	l5	1232-2	2500.000	0.000	100.0#	0	-3.56#
42	l5	1232-3	2500.000	0.000	100.0#	0	-3.95#
43	l5	1232-4	2500.000	0.000	100.0#	0	-4.07#
44	l5	1232-5	2500.000	0.000	100.0#	0	-4.75#
45	l8	1262-1	2500.000	0.000	100.0#	0	-5.56#
46	l8	1262-2	2500.000	0.000	100.0#	0	-5.88#
47	l8	1262-3	2500.000	0.000	100.0#	0	-6.09#
48	l8	1262-4	2500.000	0.000	100.0#	0	-6.25#
49	l8	1262-5	2500.000	0.000	100.0#	0	-6.50#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-33.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 5:42 pm
Operator : Pest12:kb
Sample : cicv4268,42e,,8848
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 11:29:21 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 11:24:38 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	2.069	2.224	764.3E6	1146.7E6	250.000M4	250.000M4
13) i	2154_1br2nb	2.069	2.224	764.3E6	1146.7E6	250.000M4	250.000M4
22) i	4268_1br2nb	2.069	2.224	764.3E6	1146.7E6	250.000M4	250.000M4
33) i	1248_1br2nb	2.069	2.224	764.3E6	1146.7E6	250.000M4	250.000M4
39) i	3262_1br2nb	2.069	2.224	764.3E6	1146.7E6	250.000M4	250.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.544	2.860	553.2E6	836.6E6	172.902	162.250M4
	Spiked Amount	500.000	Range 30 - 150		Recovery =	34.58%	32.45%
3) s	Decachlorobi	6.566	7.279	1022.3E6	1530.8E6	534.955	501.755M4
	Spiked Amount	500.000	Range 30 - 150		Recovery =	106.99%	100.35%
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-2			0	0	N.D.	N.D.
	Average 1260-2					0.000	0.000

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-33.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 5:42 pm
Operator : Pest12:kb
Sample : cicv4268,42e,,8848
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 11:29:21 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 11:24:38 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
14) l3 1221-1	0.000	0.000	0	0	N.D. d	N.D. d
15) l3 1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3 1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1221-1			0	0	N.D.	N.D.
Average 1221-1					0.000	0.000
17) l4 1254-1	0.000	0.000	0	0	N.D. d	N.D. d
18) l4 1254-2	0.000	0.000	0	0	N.D. d	N.D. d
19) l4 1254-3	0.000	0.000	0	0	N.D. d	N.D. d
20) l4 1254-4	0.000	0.000	0	0	N.D. d	N.D. d
21) l4 1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
23) l6 1242-1	2.779	3.231	114.5E6	184.7E6	2603.087	2632.315M4
24) l6 1242-2	3.023	3.558	243.7E6	406.2E6	2491.323	2531.312M4
25) l6 1242-3	3.365	3.952	487.4E6	830.2E6	2454.114M1	2486.590M1
26) l6 1242-4	3.786	4.453	223.5E6	246.9E6	2482.488M1	2567.809M4
27) l6 1242-5	4.125	4.752	166.2E6	263.8E6	2474.663	2626.461M4
Sum 1242-1			1235.4E6	1931.9E6	12505.675	12844.487
Average 1242-1					2501.135	2568.897
28) l9 1268-1	5.854	6.496	868.7E6	1317.8E6	2377.848	2483.721M4
29) l9 1268-2	5.881	6.529	791.7E6	1275.0E6	2136.709	2252.634M4
30) l9 1268-3	6.013	6.702	664.3E6	1071.3E6	2729.474	2866.334M4
31) l9 1268-4	6.250	6.881	288.5E6	412.0E6	2421.046	2498.839M4
32) l9 1268-5	6.440	7.102	1872.0E6	3013.5E6	2873.066	3003.675M4
Sum 1268-1			4485.2E6	7089.5E6	12538.142	13105.203
Average 1268-1					2507.628	2621.041

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-33.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 5:42 pm
Operator : Pest12:kb
Sample : cicv4268,42e,,8848
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 11:29:21 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 11:24:38 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
34)	l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
35)	l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
36)	l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
37)	l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
38)	l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
40)	l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
41)	l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
42)	l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
43)	l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
44)	l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
45)	l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
46)	l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
47)	l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
48)	l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
49)	l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum 1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-33.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 5:42 pm
Operator : Pest12:kb
Sample : cicv4268,42e,,8848
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 11:29:21 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 11:24:38 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

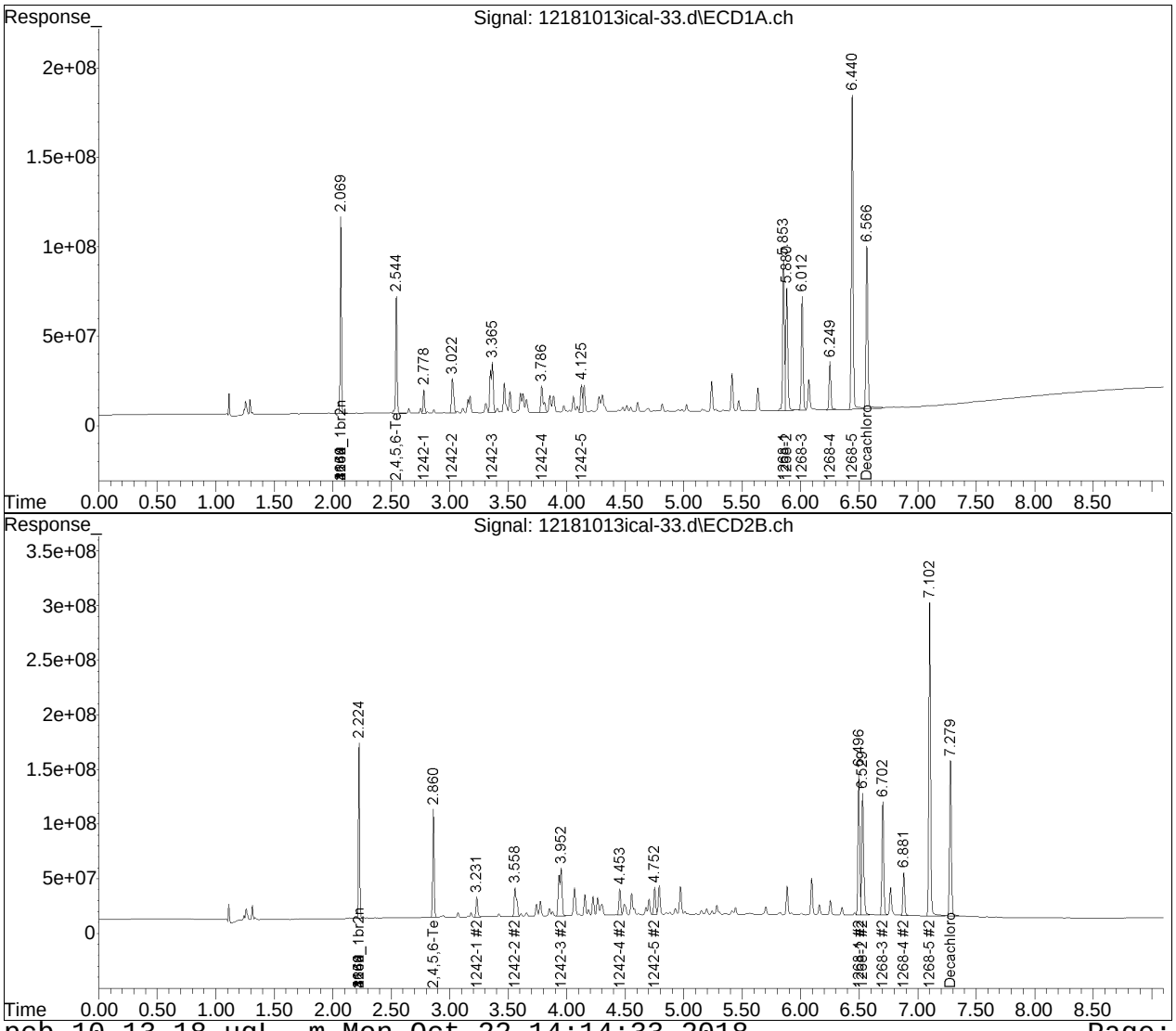
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-33.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 5:42 pm
Operator : Pest12:kb
Sample : cicv4268,42e,,8848
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 11:29:21 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 11:24:38 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

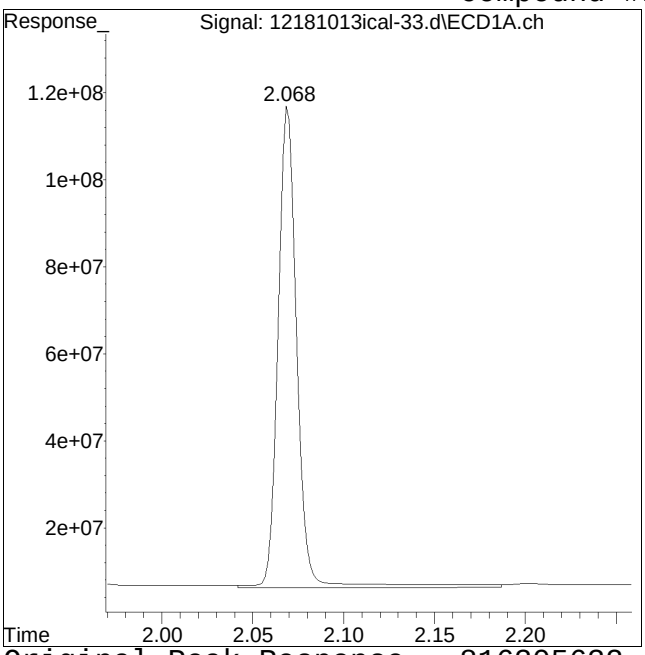


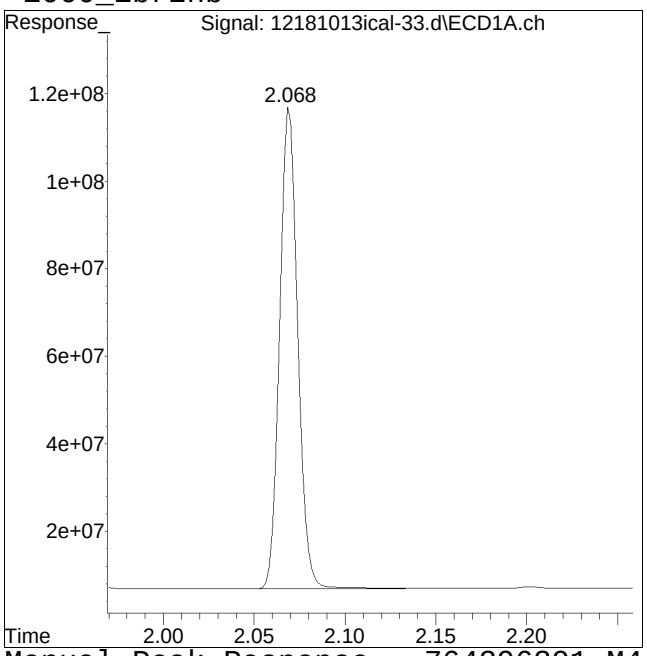
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-33.d
Date Inj'd : 10/13/2018 5:42 pm
Sample : cicv4268,42e,,8848

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:25 am

Compound #1: 1660_1br2nb





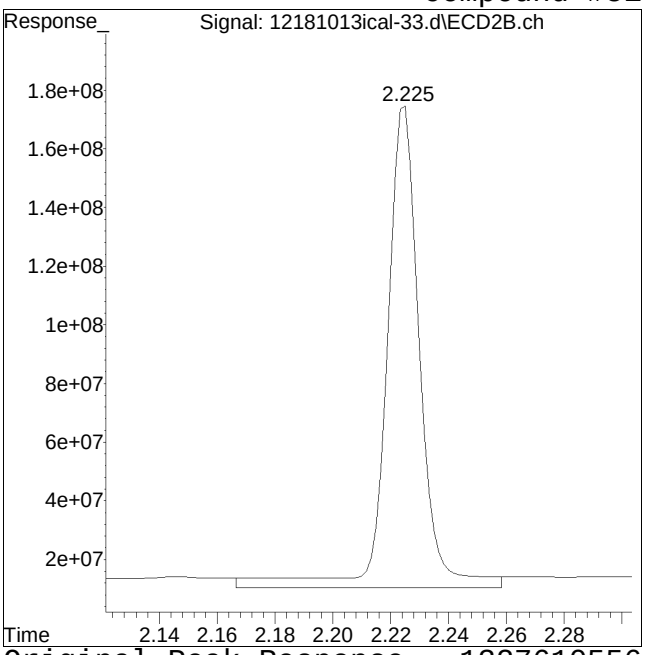
Original Peak Response = 816305632 Manual Peak Response = 764296391 M4
M4 = Poor automated baseline construction.

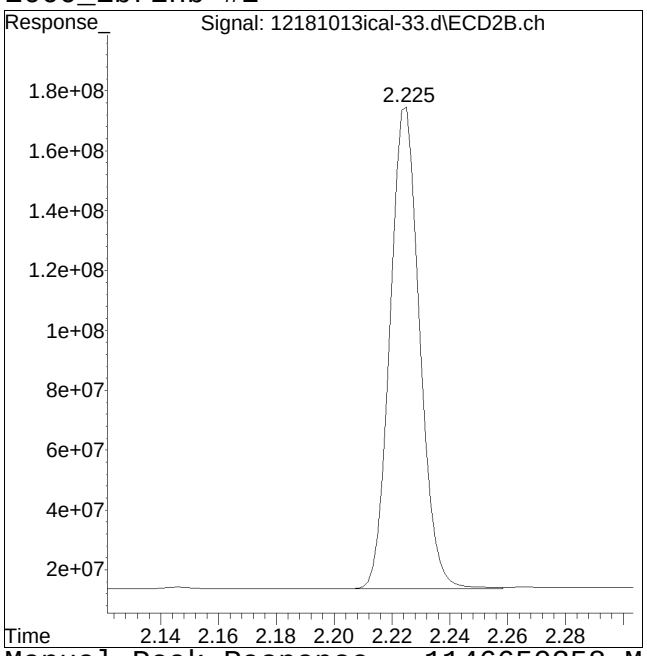
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-33.d
Date Inj'd : 10/13/2018 5:42 pm
Sample : cicv4268,42e,,8848

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:25 am

Compound #51: 1660_1br2nb #2





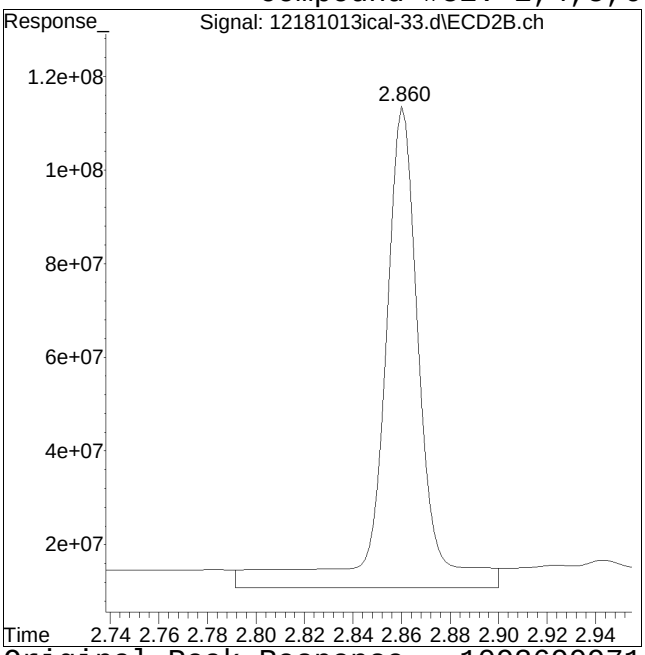
Original Peak Response = 1327610556 Manual Peak Response = 1146650358 M4
M4 = Poor automated baseline construction.

Manual Integration Report

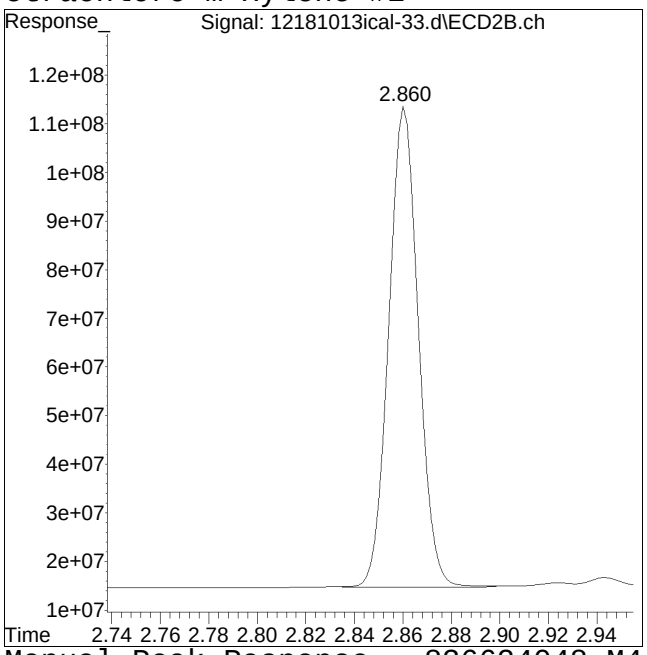
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-33.d
Date Inj'd : 10/13/2018 5:42 pm
Sample : cicv4268,42e,,8848

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:25 am

Compound #52: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 1093699971



Manual Peak Response = 836624048 M4

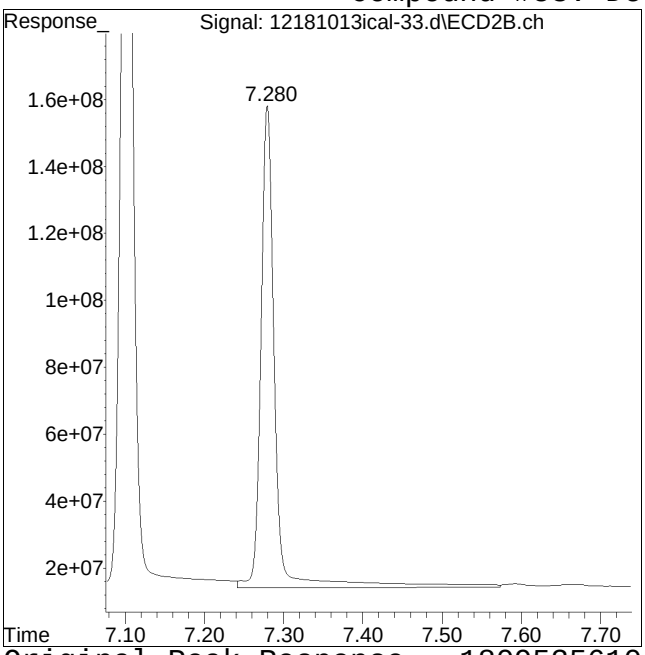
M4 = Poor automated baseline construction.

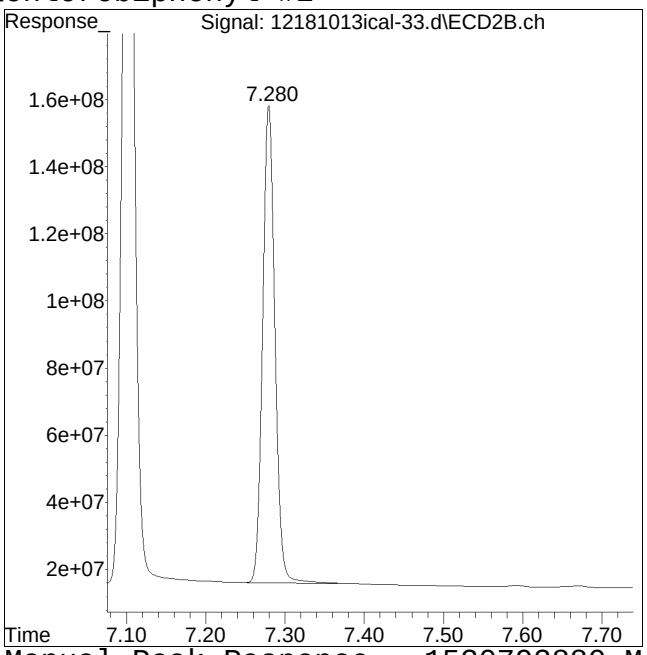
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-33.d
Date Inj'd : 10/13/2018 5:42 pm
Sample : cicv4268,42e,,8848

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:25 am

Compound #53: Decachlorobiphenyl #2





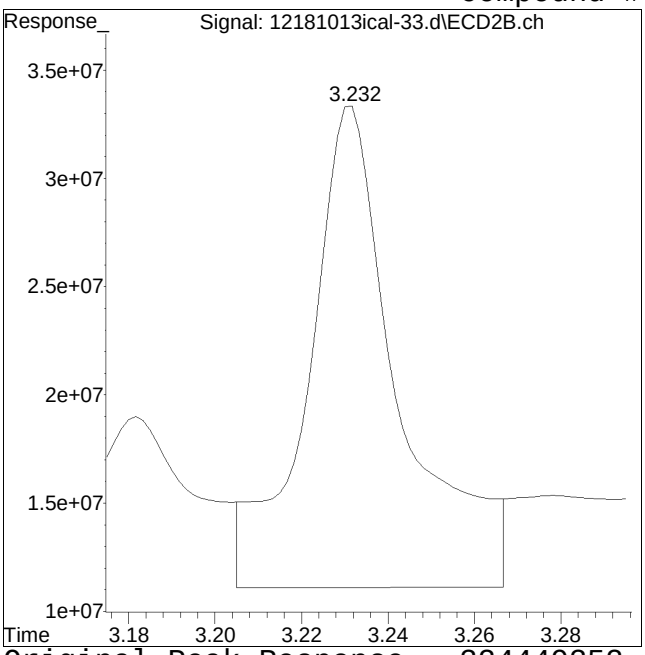
Original Peak Response = 1809535610 Manual Peak Response = 1530793880 M4
M4 = Poor automated baseline construction.

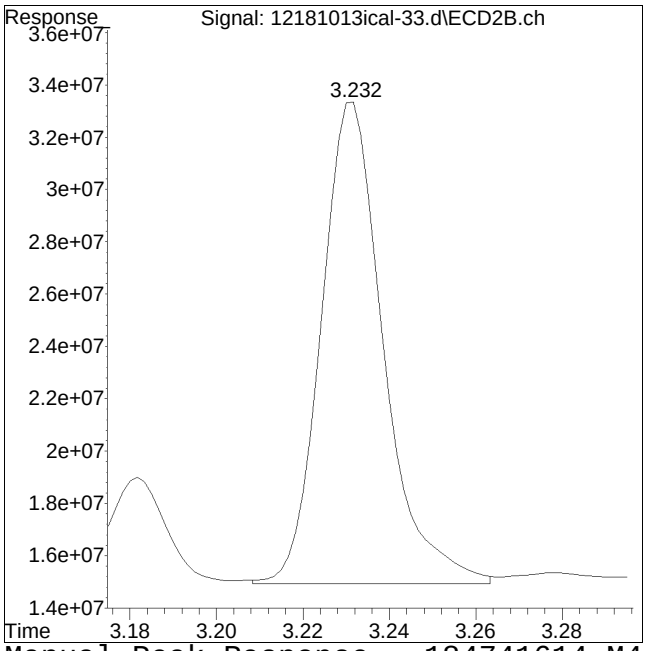
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-33.d
Date Inj'd : 10/13/2018 5:42 pm
Sample : cicv4268,42e,,8848

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:25 am

Compound #73: 1242-1 #2





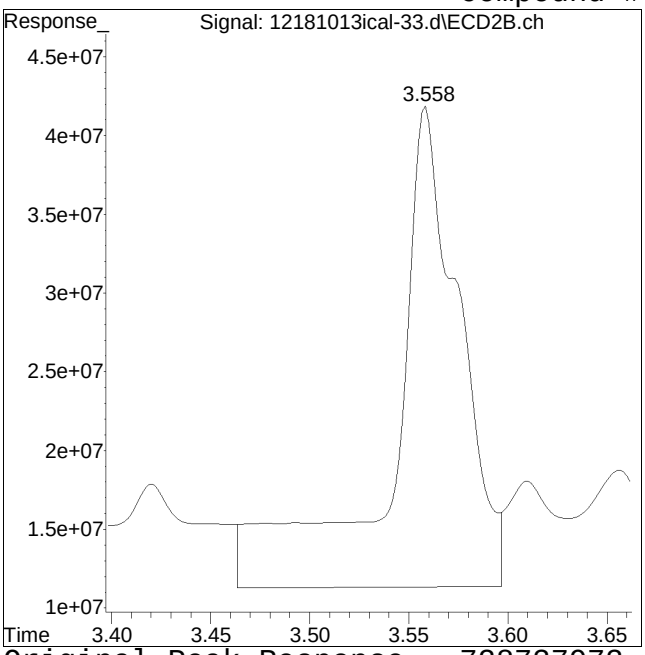
Original Peak Response = 324449352 Manual Peak Response = 184741614 M4
M4 = Poor automated baseline construction.

Manual Integration Report

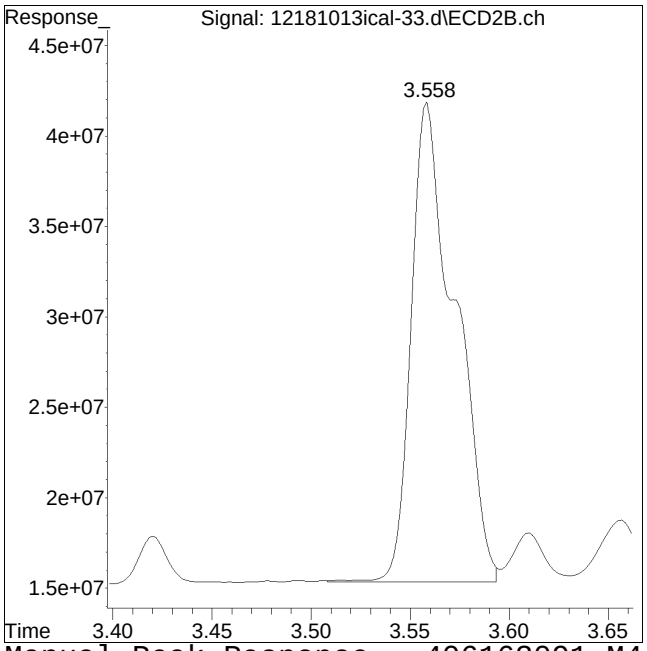
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-33.d
Date Inj'd : 10/13/2018 5:42 pm
Sample : cicv4268,42e,,8848

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:25 am

Compound #74: 1242-2 #2



Original Peak Response = 728737973



Manual Peak Response = 406163091 M4

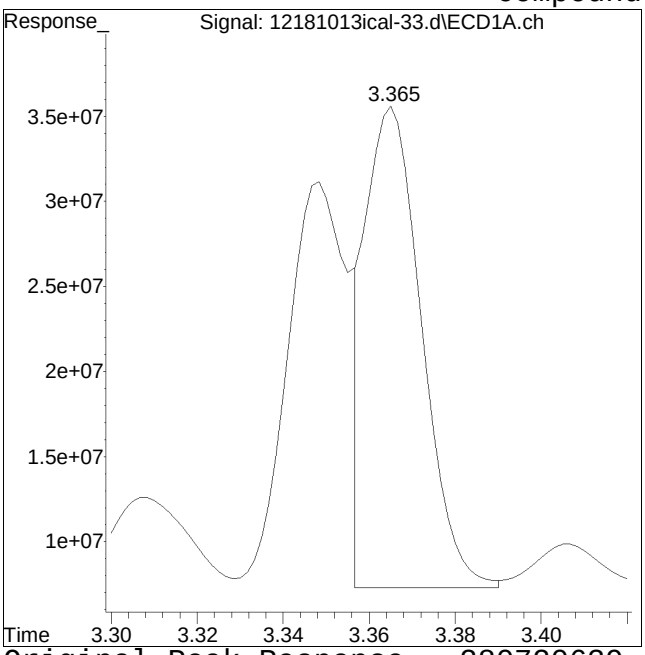
M4 = Poor automated baseline construction.

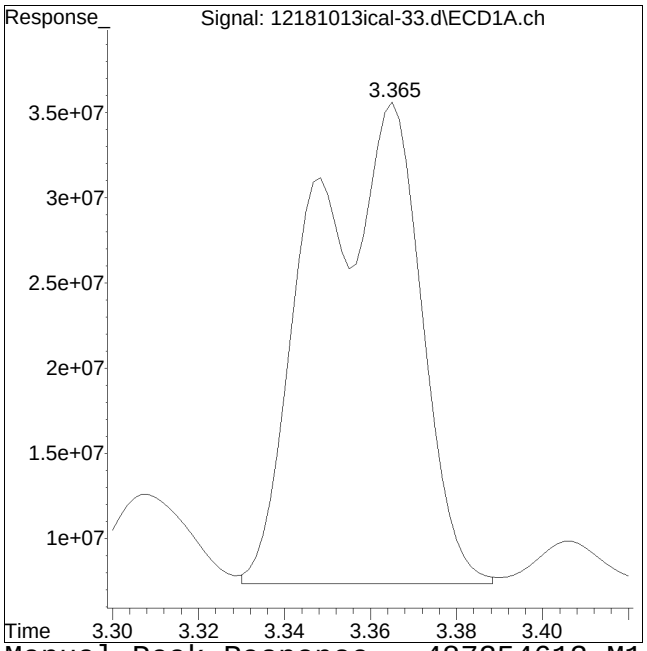
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-33.d
Date Inj'd : 10/13/2018 5:42 pm
Sample : cicv4268,42e,,8848

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:25 am

Compound #25: 1242-3





Original Peak Response = 280720639 Manual Peak Response = 487354613 M1

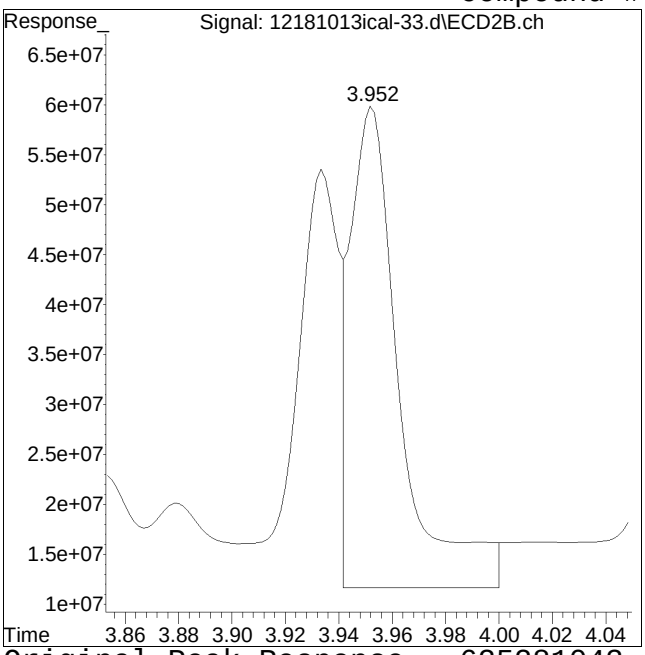
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

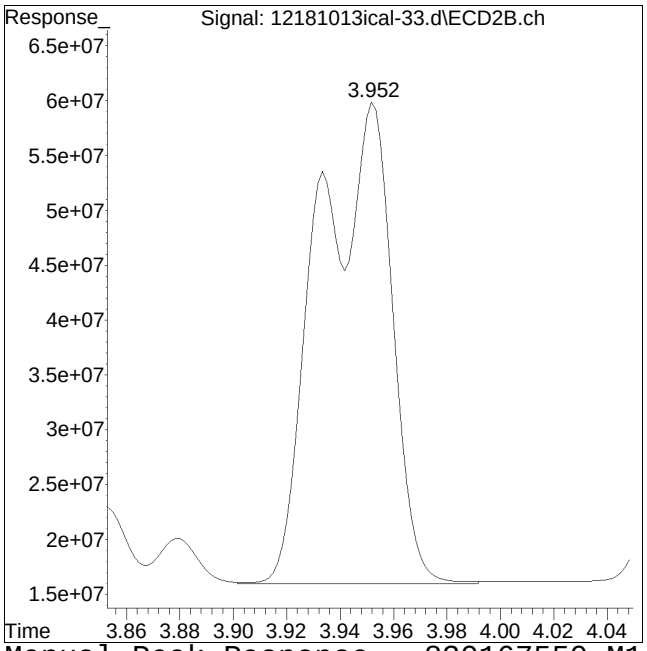
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-33.d
Date Inj'd : 10/13/2018 5:42 pm
Sample : cicv4268,42e,,8848

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:25 am

Compound #75: 1242-3 #2





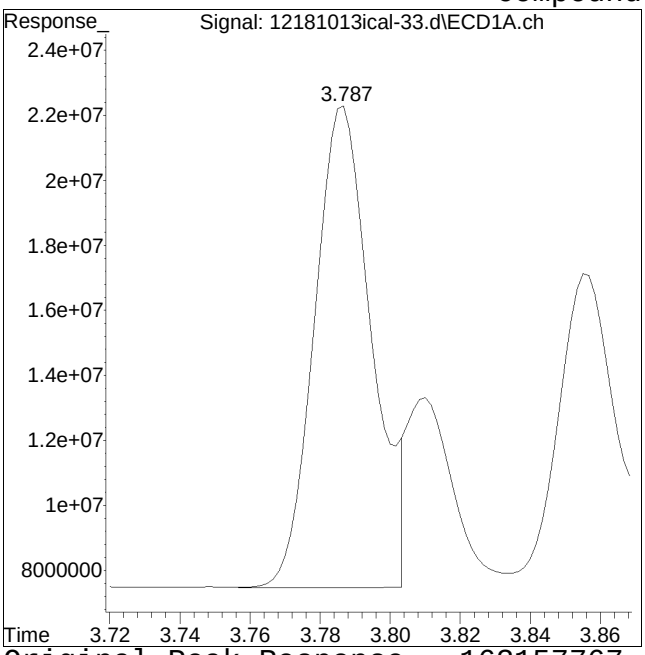
Original Peak Response = 625281043 Manual Peak Response = 830167550 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

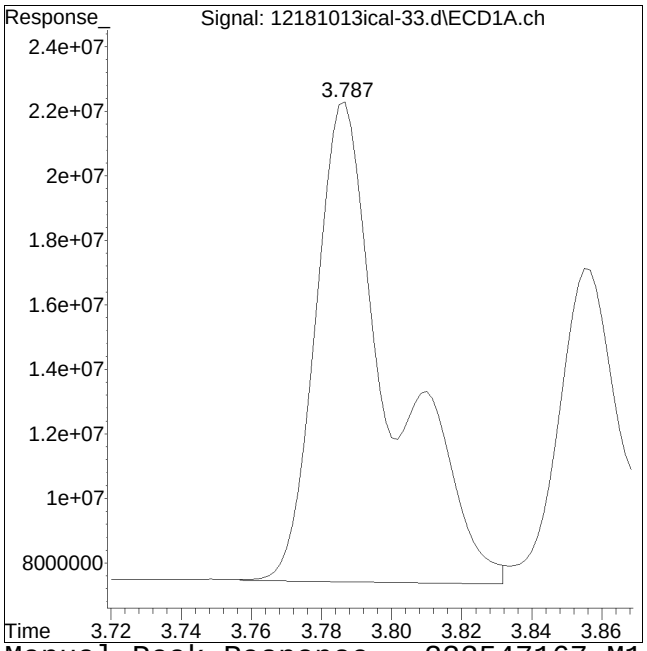
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-33.d
Date Inj'd : 10/13/2018 5:42 pm
Sample : cicv4268,42e,,8848

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:25 am

Compound #26: 1242-4



Original Peak Response = 163157767



Manual Peak Response = 223547167 M1

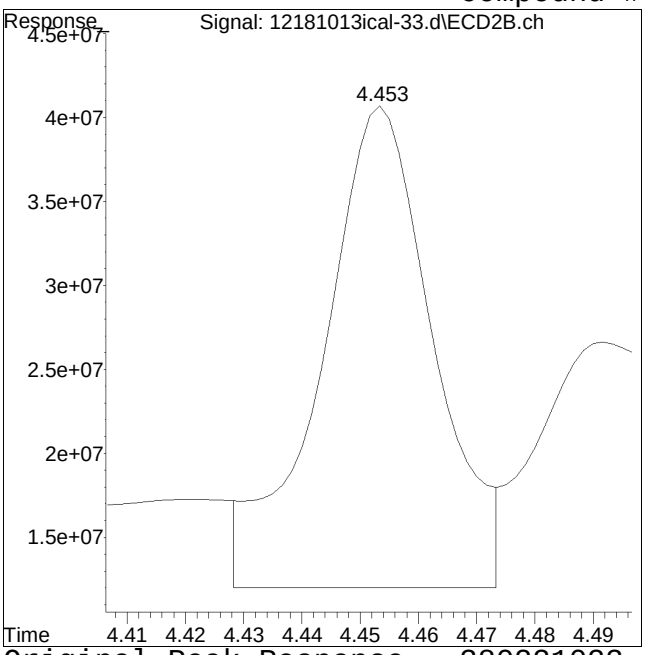
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

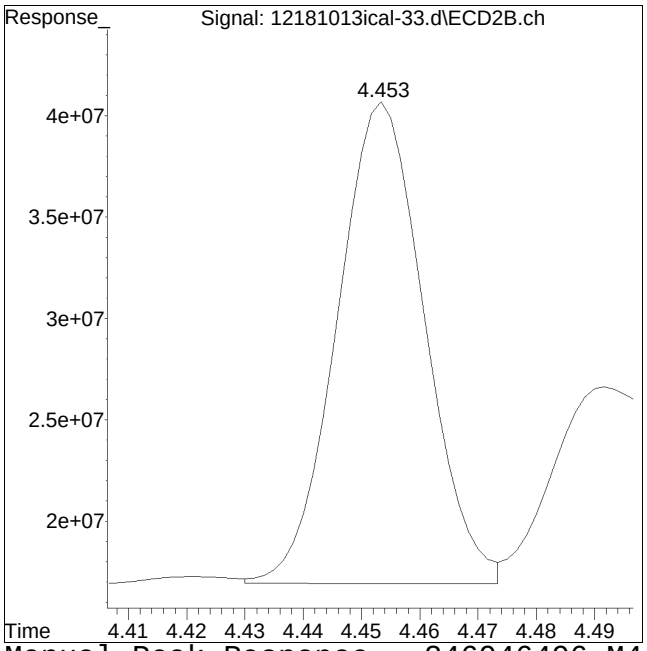
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-33.d
Date Inj'd : 10/13/2018 5:42 pm
Sample : cicv4268,42e,,8848

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:25 am

Compound #76: 1242-4 #2



Original Peak Response = 380221023



Manual Peak Response = 246946496 M4

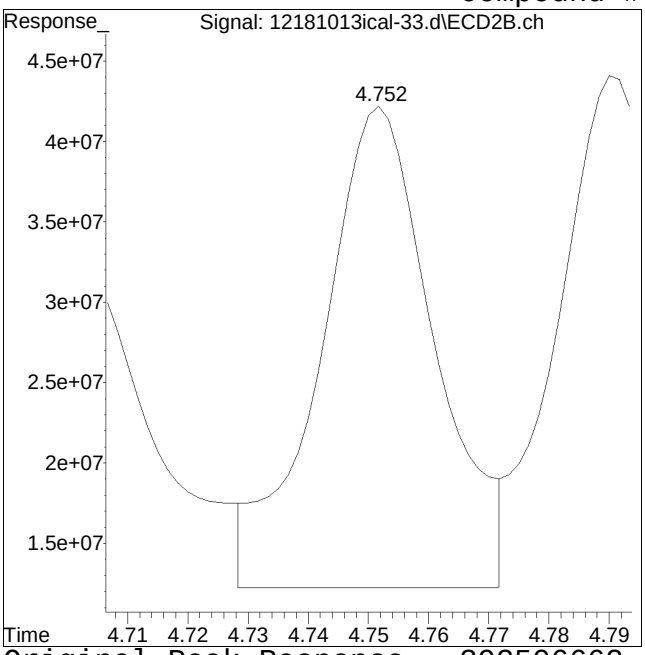
M4 = Poor automated baseline construction.

Manual Integration Report

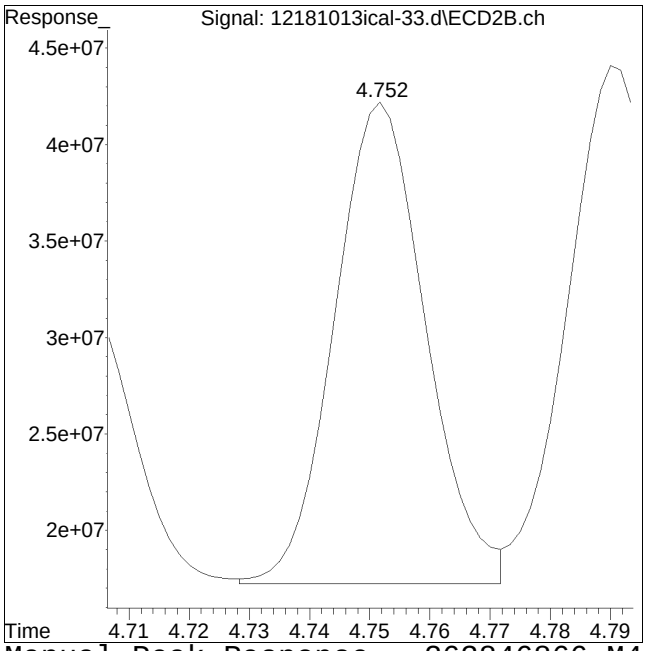
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-33.d
Date Inj'd : 10/13/2018 5:42 pm
Sample : cicv4268,42e,,8848

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:25 am

Compound #77: 1242-5 #2



Original Peak Response = 392506662



Manual Peak Response = 263846866 M4

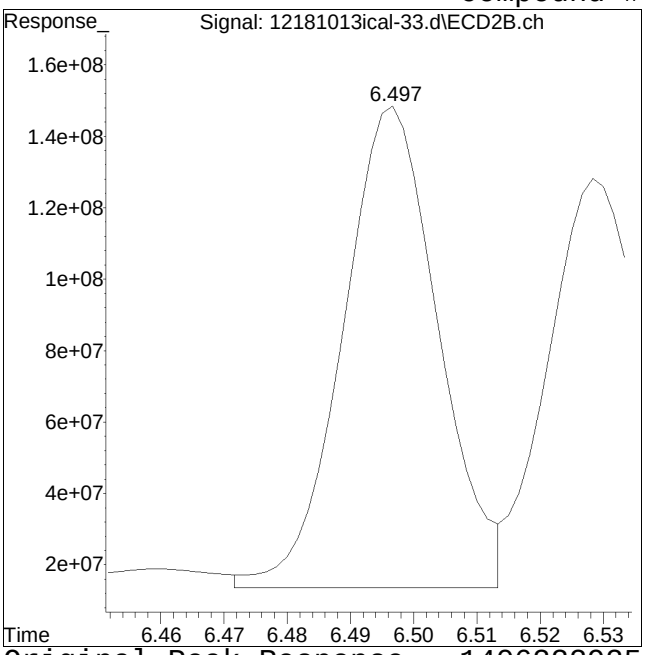
M4 = Poor automated baseline construction.

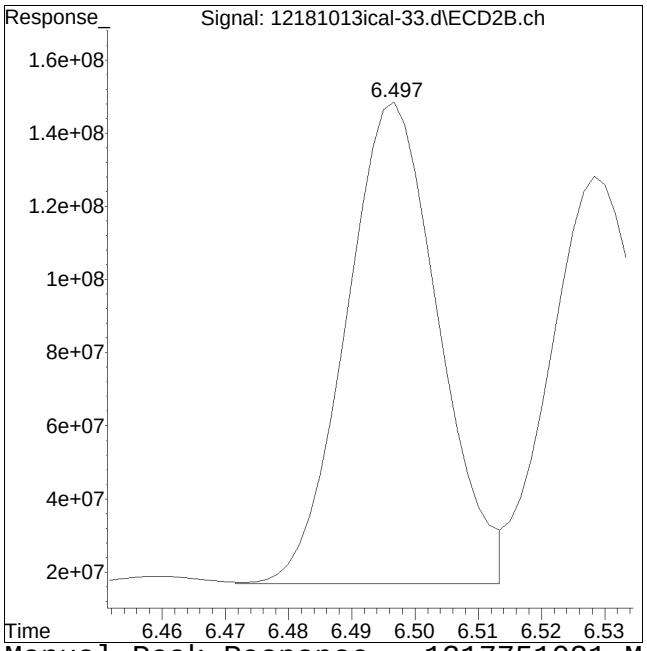
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-33.d
Date Inj'd : 10/13/2018 5:42 pm
Sample : cicv4268,42e,,8848

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:25 am

Compound #78: 1268-1 #2





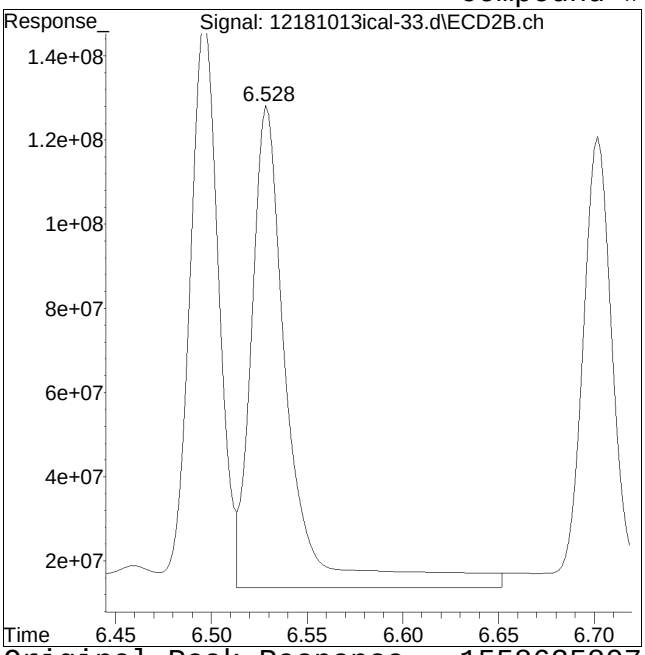
Original Peak Response = 1406222925 Manual Peak Response = 1317751031 M4
M4 = Poor automated baseline construction.

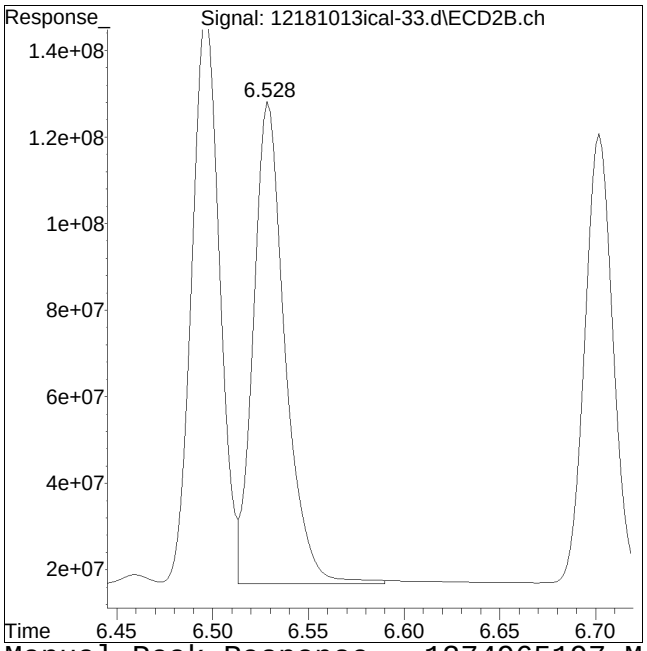
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-33.d
Date Inj'd : 10/13/2018 5:42 pm
Sample : cicv4268,42e,,8848

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:25 am

Compound #79: 1268-2 #2





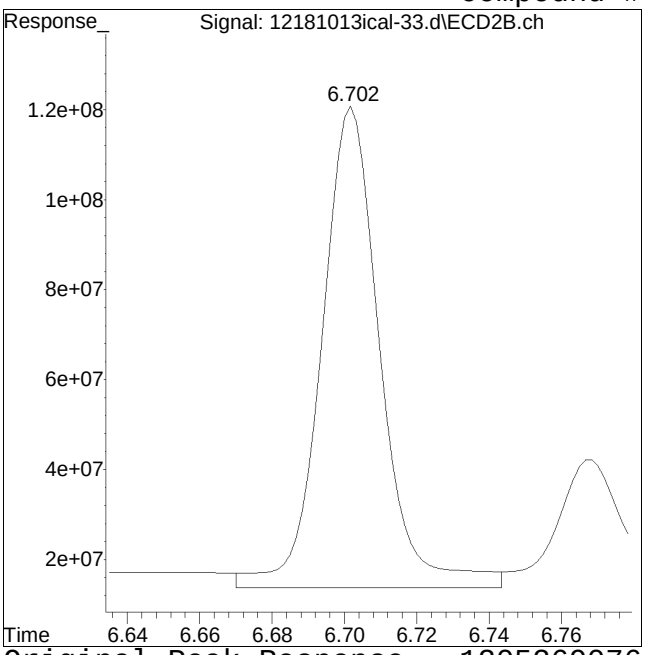
Original Peak Response = 1558625807 Manual Peak Response = 1274965197 M4
M4 = Poor automated baseline construction.

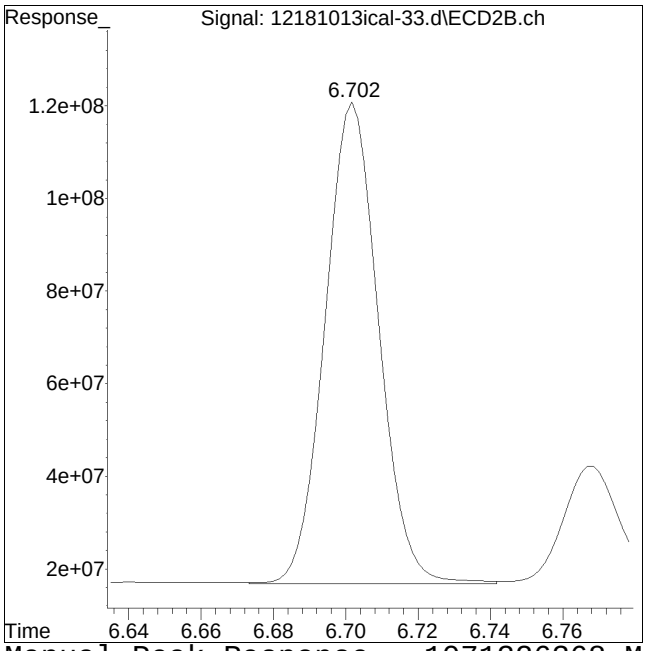
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-33.d
Date Inj'd : 10/13/2018 5:42 pm
Sample : cicv4268,42e,,8848

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:25 am

Compound #80: 1268-3 #2





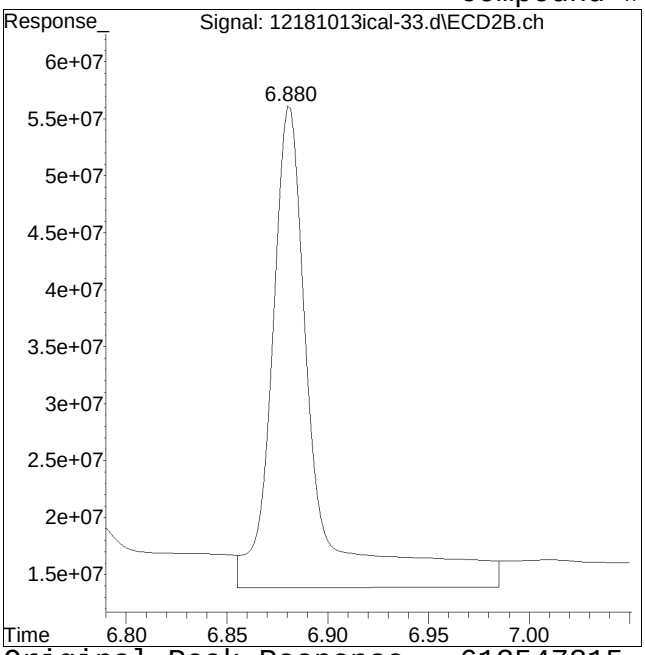
Original Peak Response = 1205269076 Manual Peak Response = 1071326368 M4
M4 = Poor automated baseline construction.

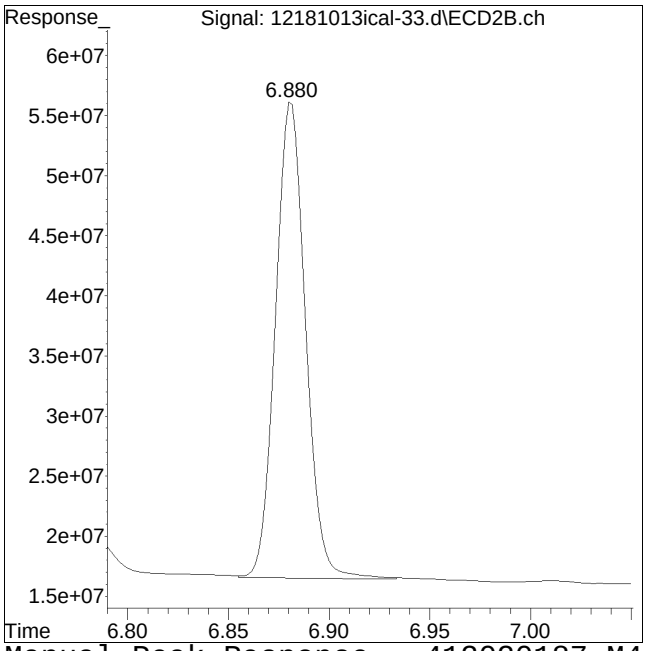
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-33.d
Date Inj'd : 10/13/2018 5:42 pm
Sample : cicv4268,42e,,8848

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:25 am

Compound #81: 1268-4 #2





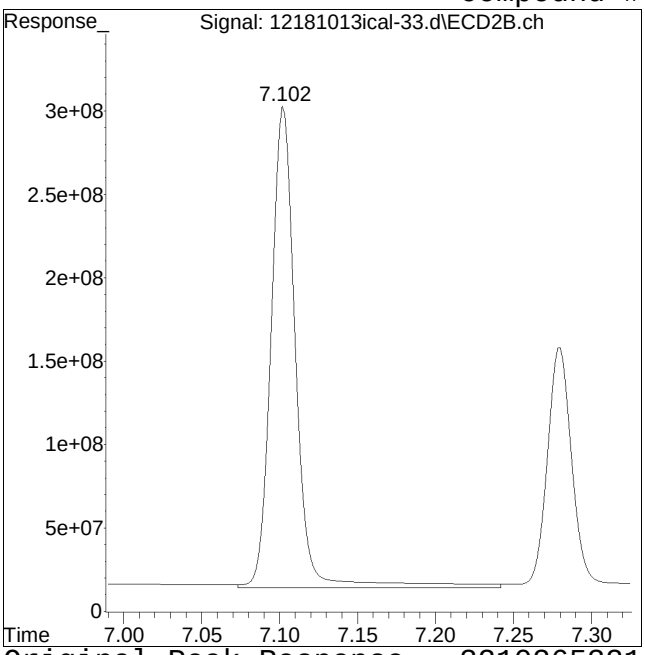
Original Peak Response = 613547315 Manual Peak Response = 412020187 M4
M4 = Poor automated baseline construction.

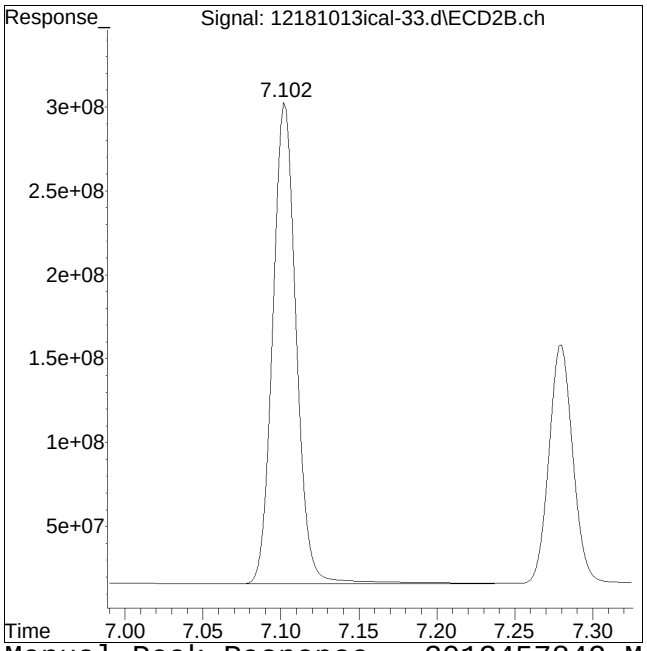
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-33.d
Date Inj'd : 10/13/2018 5:42 pm
Sample : cicv4268,42e,,8848

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:25 am

Compound #82: 1268-5 #2





Original Peak Response = 3210265321 Manual Peak Response = 3013457842 M4
M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-34.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 13 Oct 2018   5:54 pm
Operator : Pest12:kb
Sample   : cicv3262,42e,,8849
Misc   : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 33   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 22 12:47:59 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Mon Oct 22 12:47:42 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	250.000	250.000	0.0	106	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen	160.000	155.940	2.5	107	0.00
3	s	Decachlorobiphenyl	320.000	312.586	2.3	106	0.00
13	i	2154_1br2nb	250.000	250.000	0.0	105	0.00
22	i	4268_1br2nb	250.000	250.000	0.0	108	0.00
33	i	1248_1br2nb	250.000	250.000	0.0	100	0.00
39	i	3262_1br2nb	250.000	250.000	0.0	103	0.00
40	l5	1232-1	2500.000	2740.143	-9.6	105	0.00
41	l5	1232-2	2500.000	2533.000	-1.3	98	0.00
42	l5	1232-3	2500.000	2380.354	4.8	94	0.00
43	l5	1232-4	2500.000	2466.137	1.4	94	0.00
44	l5	1232-5	2500.000	2389.917	4.4	100	0.00
45	l8	1262-1	2500.000	2244.700	10.2	98	0.00
46	l8	1262-2	2500.000	2266.000	9.4	98	0.00
47	l8	1262-3	2500.000	2204.190	11.8	96	0.00
48	l8	1262-4	2500.000	2304.416	7.8	98	0.00
49	l8	1262-5	2500.000	2236.022	10.6	98	0.00

Signal #2

1	i	1660_1br2nb	250.000	250.000	0.0	104	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl	160.000	154.117	3.7	104	0.00
3	s	Decachlorobiphenyl	320.000	310.446	3.0	105	0.00
13	i	2154_1br2nb	250.000	250.000	0.0	102	0.00

Evaluate Continuing Calibration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-34.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 13 Oct 2018   5:54 pm
Operator : Pest12:kb
Sample   : cicv3262,42e,,8849
Misc   : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 33   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 22 12:47:59 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Mon Oct 22 12:47:42 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
22	i	4268_1br2nb	250.000	250.000	0.0	109	0.00
33	i	1248_1br2nb	250.000	250.000	0.0	99	0.00
39	i	3262_1br2nb	250.000	250.000	0.0	102	0.00
40	l5	1232-1	2500.000	2418.496	3.3	101	0.00
41	l5	1232-2	2500.000	2240.145	10.4	93	0.00
42	l5	1232-3	2500.000	2154.222	13.8	93	0.00
43	l5	1232-4	2500.000	2189.184	12.4	92	0.00
44	l5	1232-5	2500.000	2493.333	0.3	100	0.00
45	l8	1262-1	2500.000	2473.403	1.1	102	0.00
46	l8	1262-2	2500.000	2402.587	3.9	102	0.00
47	l8	1262-3	2500.000	2354.083	5.8	101	0.00
48	l8	1262-4	2500.000	2399.148	4.0	104	0.00
49	l8	1262-5	2500.000	2299.072	8.0	99	0.00

Evaluate Continuing Calibration Report - Not Founds

4	l1	1016-1	2500.000	0.000	100.0#	0	-2.78#
5	l1	1016-2	2500.000	0.000	100.0#	0	-3.02#
6	l1	1016-3	2500.000	0.000	100.0#	0	-3.37#
7	l1	1016-4	2500.000	0.000	100.0#	0	-3.47#
8	l1	1016-5	2500.000	0.000	100.0#	0	-3.79#
9	l2	1260-2	2500.000	0.000	100.0#	0	-4.95#
10	l2	1260-3	2500.000	0.000	100.0#	0	-5.42#
11	l2	1260-4	2500.000	0.000	100.0#	0	-5.63#
12	l2	1260-5	2500.000	0.000	100.0#	0	-5.83#
14	l3	1221-1	2500.000	0.000	100.0#	0	-2.65#
15	l3	1221-2	2500.000	0.000	100.0#	0	-2.75#
16	l3	1221-3	2500.000	0.000	100.0#	0	-2.78#
17	l4	1254-1	2500.000	0.000	100.0#	0	-4.09#

Evaluate Continuing Calibration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-34.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 13 Oct 2018   5:54 pm
Operator : Pest12:kb
Sample   : cicv3262,42e,,8849
Misc   : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 33   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 22 12:47:59 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Mon Oct 22 12:47:42 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
18	l4	1254-2	2500.000	0.000	100.0#	0	-4.29#
19	l4	1254-3	2500.000	0.000	100.0#	0	-4.61#
20	l4	1254-4	2500.000	0.000	100.0#	0	-4.82#
21	l4	1254-5	2500.000	0.000	100.0#	0	-5.16#
23	l6	1242-1	2500.000	0.000	100.0#	0	-2.78#
24	l6	1242-2	2500.000	0.000	100.0#	0	-3.02#
25	l6	1242-3	2500.000	0.000	100.0#	0	-3.37#
26	l6	1242-4	2500.000	0.000	100.0#	0	-3.79#
27	l6	1242-5	2500.000	0.000	100.0#	0	-4.13#
28	l9	1268-1	2500.000	0.000	100.0#	0	-5.86#
29	l9	1268-2	2500.000	0.000	100.0#	0	-5.88#
30	l9	1268-3	2500.000	0.000	100.0#	0	-6.02#
31	l9	1268-4	2500.000	0.000	100.0#	0	-6.25#
32	l9	1268-5	2500.000	0.000	100.0#	0	-6.44#
34	l7	1248-1	2500.000	0.000	100.0#	0	-3.35#
35	l7	1248-2	2500.000	0.000	100.0#	0	-3.61#
36	l7	1248-3	2500.000	0.000	100.0#	0	-3.79#
37	l7	1248-4	2500.000	0.000	100.0#	0	-4.13#
38	l7	1248-5	2500.000	0.000	100.0#	0	-4.15#

Signal #2

4	l1	1016-1	2500.000	0.000	100.0#	0	-3.23#
5	l1	1016-2	2500.000	0.000	100.0#	0	-3.56#
6	l1	1016-3	2500.000	0.000	100.0#	0	-3.95#
7	l1	1016-4	2500.000	0.000	100.0#	0	-4.07#
8	l1	1016-5	2500.000	0.000	100.0#	0	-4.45#
9	l2	1260-2	2500.000	0.000	100.0#	0	-5.57#
10	l2	1260-3	2500.000	0.000	100.0#	0	-6.09#
11	l2	1260-4	2500.000	0.000	100.0#	0	-6.25#
12	l2	1260-5	2500.000	0.000	100.0#	0	-6.51#

Evaluate Continuing Calibration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-34.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 13 Oct 2018   5:54 pm
Operator : Pest12:kb
Sample   : cicv3262,42e,,8849
Misc   : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 33   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 22 12:47:59 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Mon Oct 22 12:47:42 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
14	l3	1221-1	2500.000	0.000	100.0#	0	-3.07#
15	l3	1221-2	2500.000	0.000	100.0#	0	-3.18#
16	l3	1221-3	2500.000	0.000	100.0#	0	-3.23#
17	l4	1254-1	2500.000	0.000	100.0#	0	-4.79#
18	l4	1254-2	2500.000	0.000	100.0#	0	-4.93#
19	l4	1254-3	2500.000	0.000	100.0#	0	-5.28#
20	l4	1254-4	2500.000	0.000	100.0#	0	-5.44#
21	l4	1254-5	2500.000	0.000	100.0#	0	-5.82#
23	l6	1242-1	2500.000	0.000	100.0#	0	-3.23#
24	l6	1242-2	2500.000	0.000	100.0#	0	-3.56#
25	l6	1242-3	2500.000	0.000	100.0#	0	-3.95#
26	l6	1242-4	2500.000	0.000	100.0#	0	-4.45#
27	l6	1242-5	2500.000	0.000	100.0#	0	-4.75#
28	l9	1268-1	2500.000	0.000	100.0#	0	-6.49#
29	l9	1268-2	2500.000	0.000	100.0#	0	-6.53#
30	l9	1268-3	2500.000	0.000	100.0#	0	-6.70#
31	l9	1268-4	2500.000	0.000	100.0#	0	-6.88#
32	l9	1268-5	2500.000	0.000	100.0#	0	-7.10#
34	l7	1248-1	2500.000	0.000	100.0#	0	-3.93#
35	l7	1248-2	2500.000	0.000	100.0#	0	-4.22#
36	l7	1248-3	2500.000	0.000	100.0#	0	-4.45#
37	l7	1248-4	2500.000	0.000	100.0#	0	-4.75#
38	l7	1248-5	2500.000	0.000	100.0#	0	-4.79#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-34.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 5:54 pm
Operator : Pest12:kb
Sample : cicv3262,42e,,8849
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 22 12:47:59 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Mon Oct 22 12:47:42 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	2.069	2.224	803.3E6	1203.5E6	250.000M4	250.000M4
13) i	2154_1br2nb	2.069	2.224	803.3E6	1203.5E6	250.000M4	250.000M4
22) i	4268_1br2nb	2.069	2.224	803.3E6	1203.5E6	250.000M4	250.000M4
33) i	1248_1br2nb	2.069	2.224	803.3E6	1203.5E6	250.000M4	250.000M4
39) i	3262_1br2nb	2.069	2.224	803.3E6	1203.5E6	250.000M4	250.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.544	2.860	524.4E6	834.1E6	155.940M4	154.117M4
	Spiked Amount	500.000	Range 30 - 150		Recovery =	31.19%	30.82%
3) s	Decachlorobi	6.563	7.277	627.8E6	994.1E6	312.586	310.446
	Spiked Amount	500.000	Range 30 - 150		Recovery =	62.52%	62.09%
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016-1			0	0	N.D.	N.D.
Average	1016-1					0.000	0.000
9) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260-2			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-34.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 5:54 pm
Operator : Pest12:kb
Sample : cicv3262,42e,,8849
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 22 12:47:59 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Mon Oct 22 12:47:42 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1260-2					0.000	0.000
14) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
17) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
18) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
23) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
24) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
28) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
29) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
34) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-34.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 5:54 pm
Operator : Pest12:kb
Sample : cicv3262,42e,,8849
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 22 12:47:59 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Mon Oct 22 12:47:42 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
35) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
40) l5	1232-1	2.779	3.232	154.9E6	255.4E6	2740.143M4	2418.496
41) l5	1232-2	3.022	3.559	141.1E6	238.7E6	2533.000M4	2240.145
42) l5	1232-3	3.365	3.952	276.1E6	461.1E6	2380.354M4	2154.222M1
43) l5	1232-4	3.466	4.068	115.8E6	175.7E6	2466.137M4	2189.184
44) l5	1232-5	4.125	4.752	85449662	145.8E6	2389.917M3	2493.333
Sum	1232-1			773.3E6	1276.8E6	12509.552	11495.381
Average	1232-1					2501.910	2299.076
45) l8	1262-1	4.950	5.565	368.5E6	501.1E6	2244.700	2473.403M4
46) l8	1262-2	5.239	5.883	446.1E6	656.4E6	2266.000	2402.587M4
47) l8	1262-3	5.416	6.091	385.7E6	561.9E6	2204.190M3	2354.083M4
48) l8	1262-4	5.633	6.252	803.7E6	1124.1E6	2304.416	2399.148M4
49) l8	1262-5	5.852	6.496	294.1E6	755.5E6	2236.022M3	2299.072
Sum	1262-1			2298.0E6	3599.0E6	11255.329	11928.292
Average	1262-1					2251.066	2385.658

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			2298.0E6	3599.0E6	11255.329	11928.292
Average	1262-1					2251.066	2385.658

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-34.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 5:54 pm
Operator : Pest12:kb
Sample : cicv3262,42e,,8849
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 22 12:47:59 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Mon Oct 22 12:47:42 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

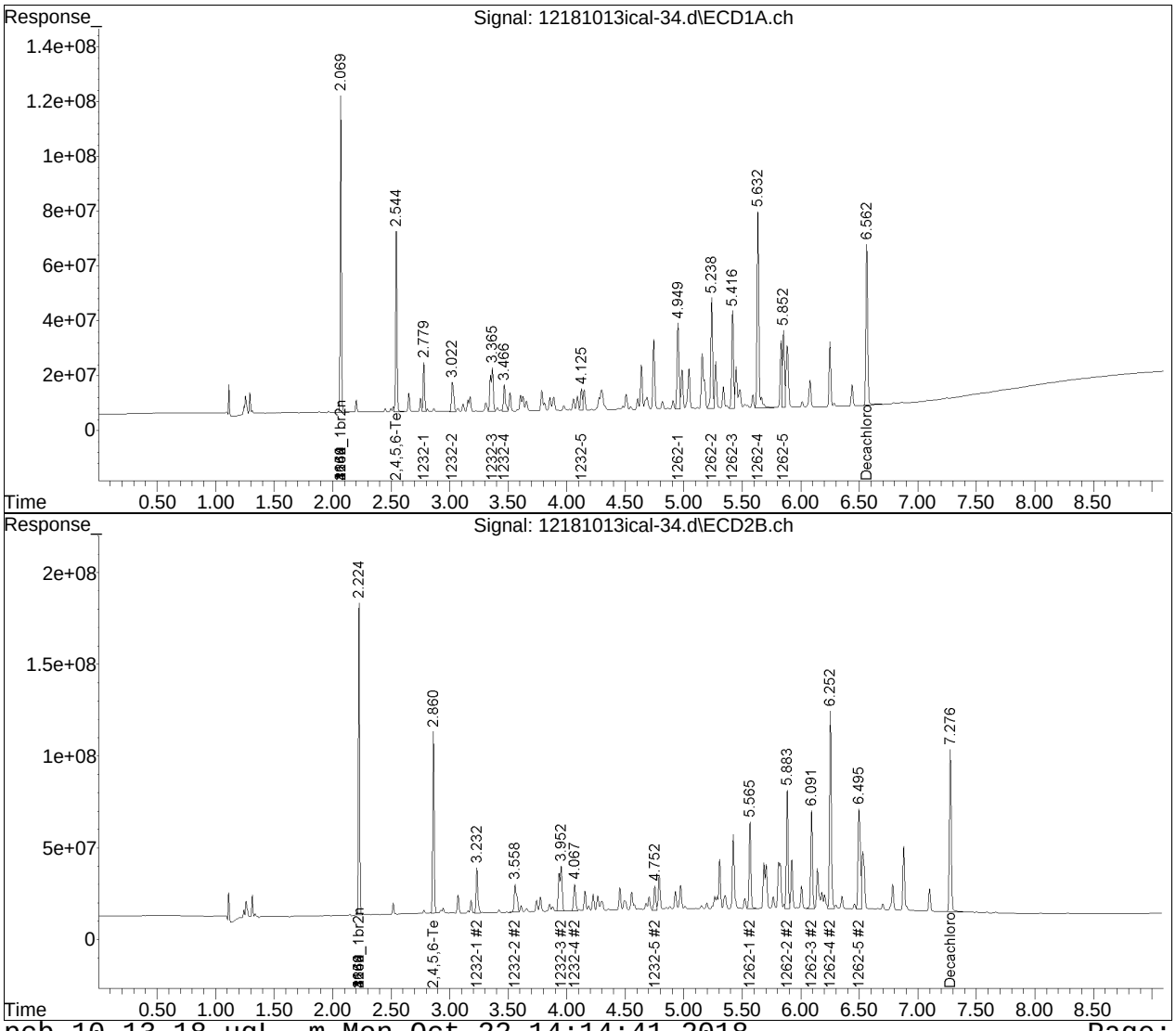
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-34.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 5:54 pm
Operator : Pest12:kb
Sample : cicv3262,42e,,8849
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 22 12:47:59 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Mon Oct 22 12:47:42 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

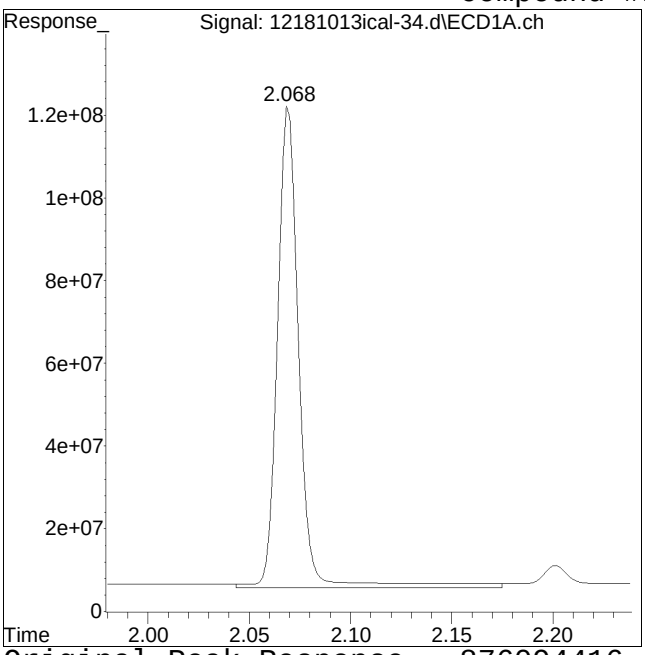


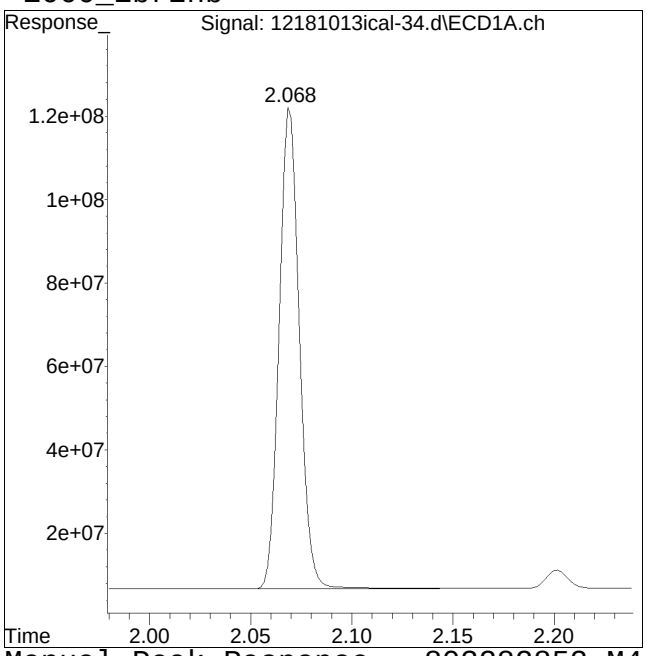
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-34.d
Date Inj'd : 10/13/2018 5:54 pm
Sample : cicv3262,42e,,8849

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/22/2018 12:47 pm

Compound #1: 1660_1br2nb





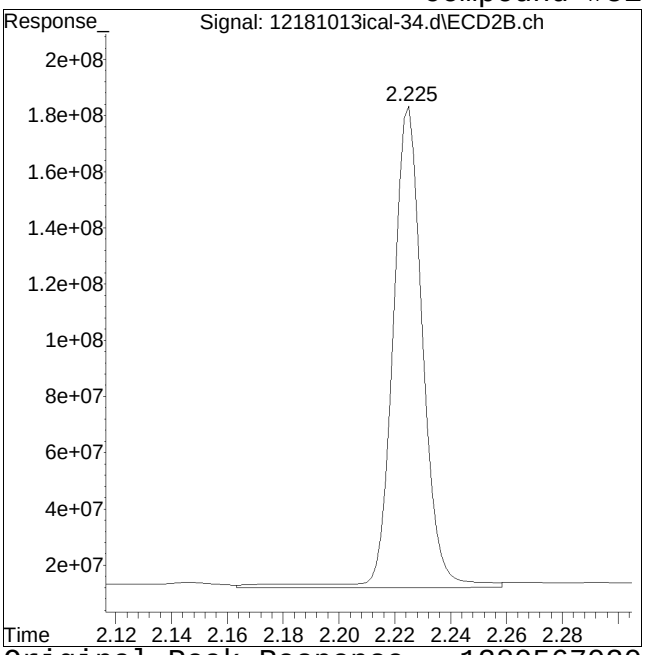
Original Peak Response = 876094416 Manual Peak Response = 803282852 M4
M4 = Poor automated baseline construction.

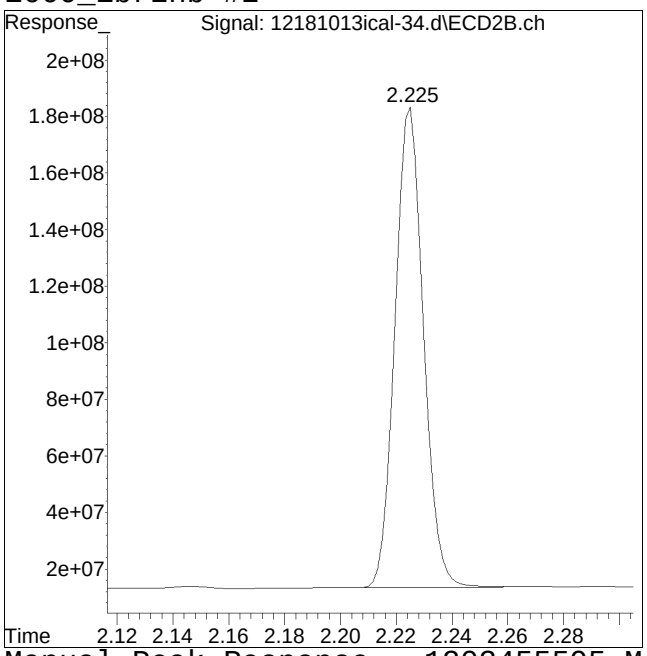
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-34.d
Date Inj'd : 10/13/2018 5:54 pm
Sample : cicv3262,42e,,8849

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/22/2018 12:47 pm

Compound #51: 1660_1br2nb #2





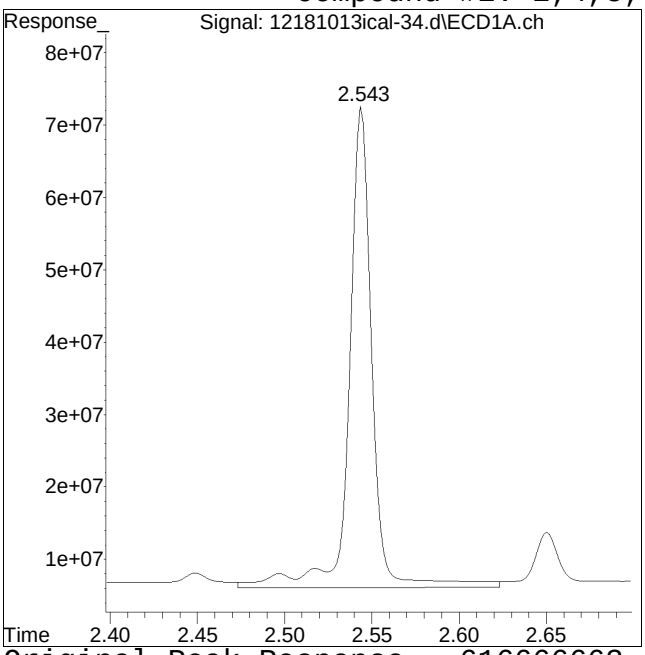
Original Peak Response = 1280567020 Manual Peak Response = 1203455595 M4
M4 = Poor automated baseline construction.

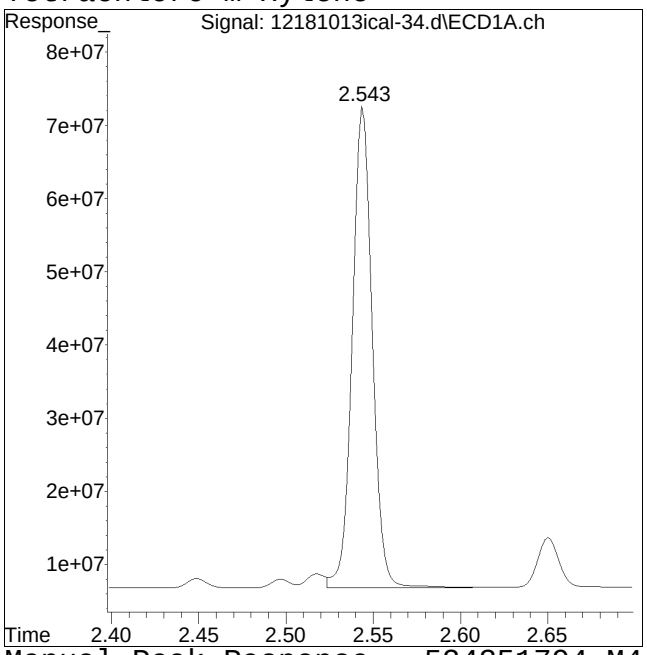
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-34.d
Date Inj'd : 10/13/2018 5:54 pm
Sample : cicv3262,42e,,8849

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/22/2018 12:47 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene





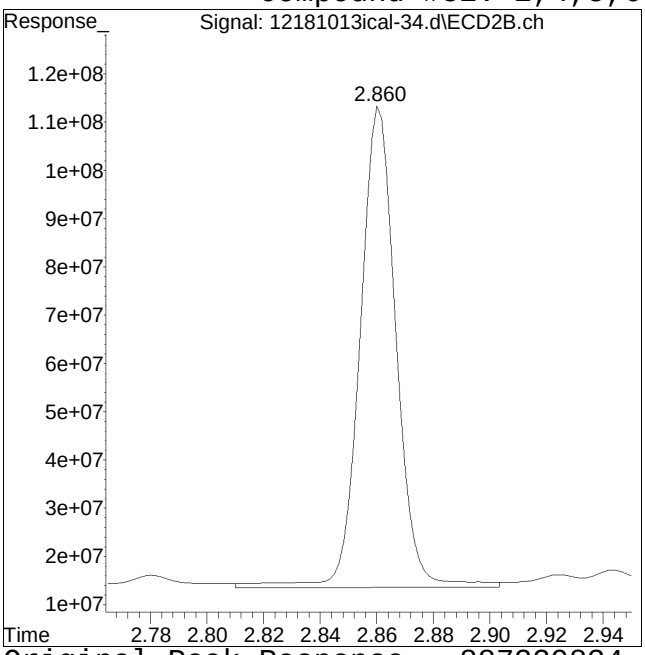
Original Peak Response = 616666663 Manual Peak Response = 524351794 M4
M4 = Poor automated baseline construction.

Manual Integration Report

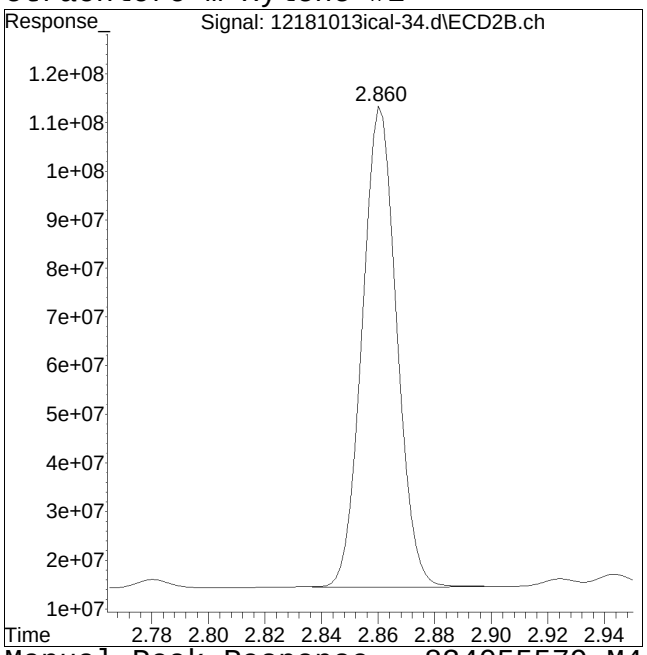
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-34.d
Date Inj'd : 10/13/2018 5:54 pm
Sample : cicv3262,42e,,8849

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/22/2018 12:47 pm

Compound #52: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 887329834



Manual Peak Response = 834055579 M4

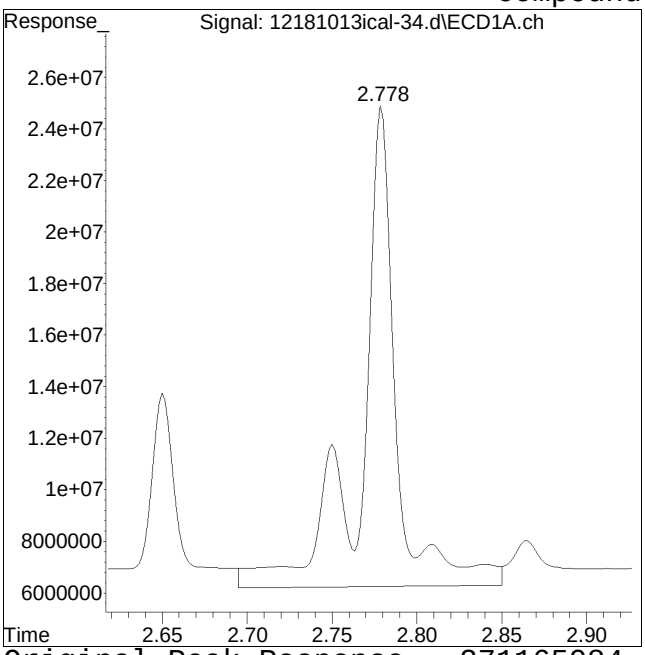
M4 = Poor automated baseline construction.

Manual Integration Report

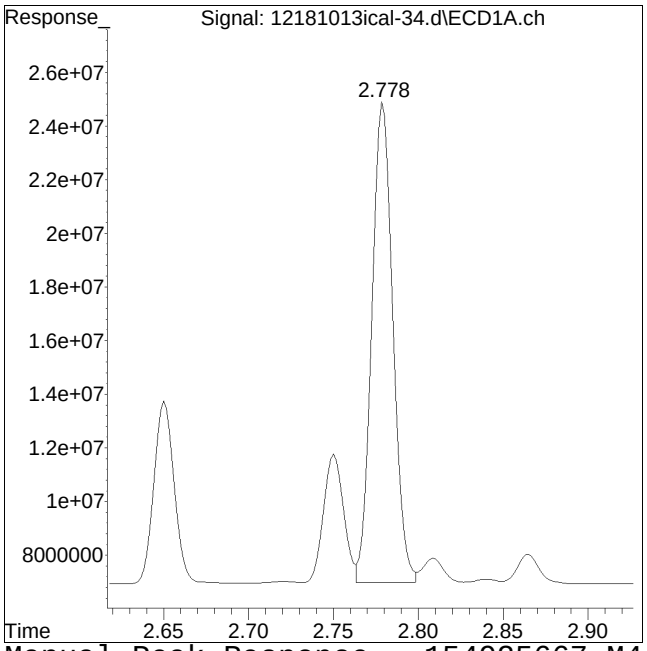
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-34.d
Date Inj'd : 10/13/2018 5:54 pm
Sample : cicv3262,42e,,8849

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/22/2018 12:47 pm

Compound #40: 1232-1



Original Peak Response = 271165984



Manual Peak Response = 154925667 M4

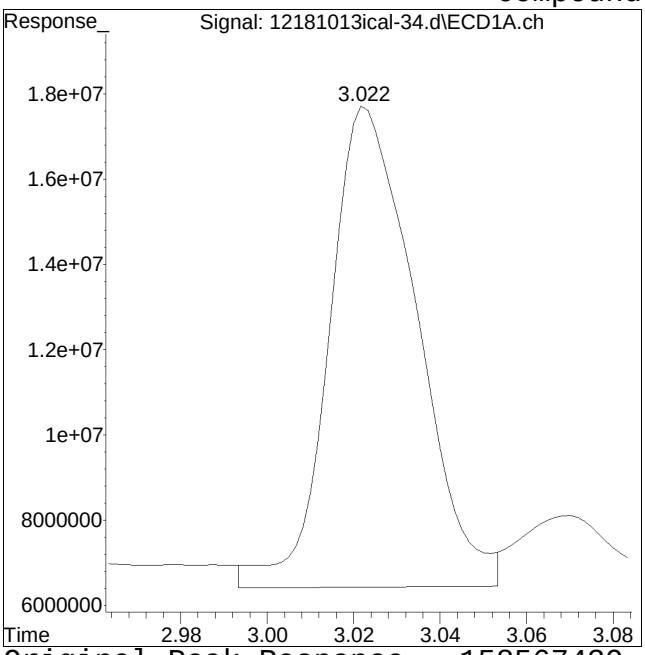
M4 = Poor automated baseline construction.

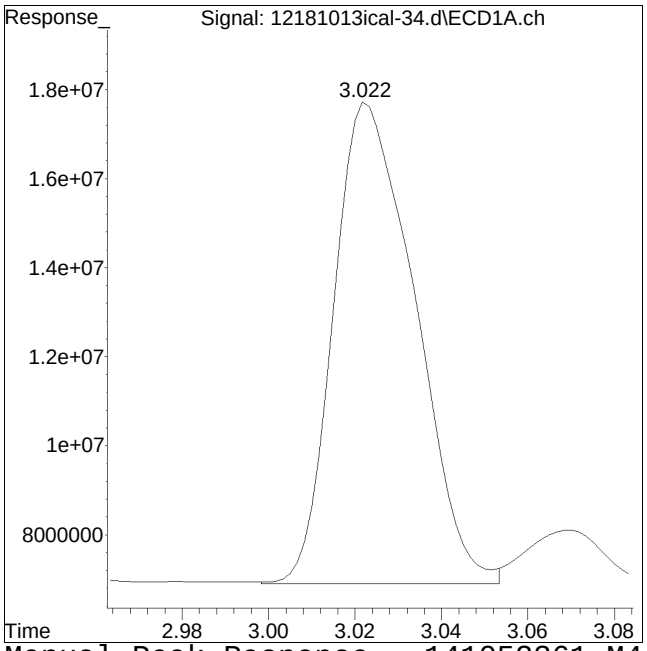
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-34.d
Date Inj'd : 10/13/2018 5:54 pm
Sample : cicv3262,42e,,8849

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/22/2018 12:47 pm

Compound #41: 1232-2





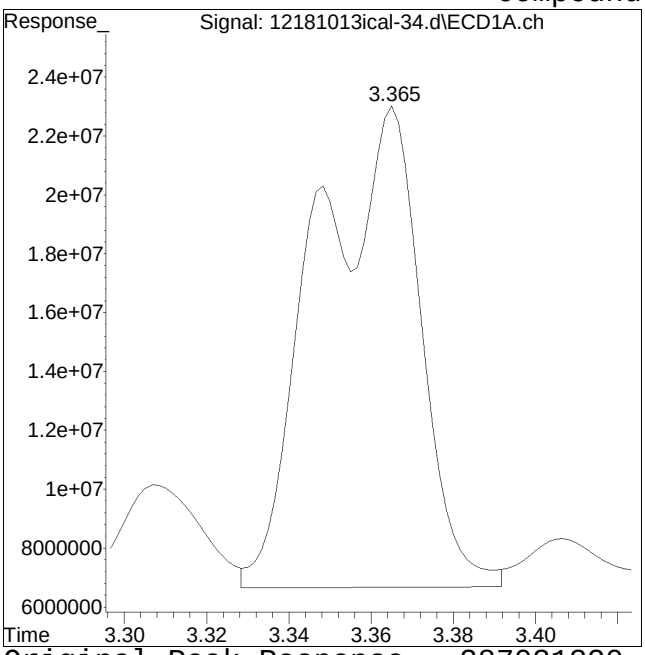
Original Peak Response = 158567439 Manual Peak Response = 141052361 M4
M4 = Poor automated baseline construction.

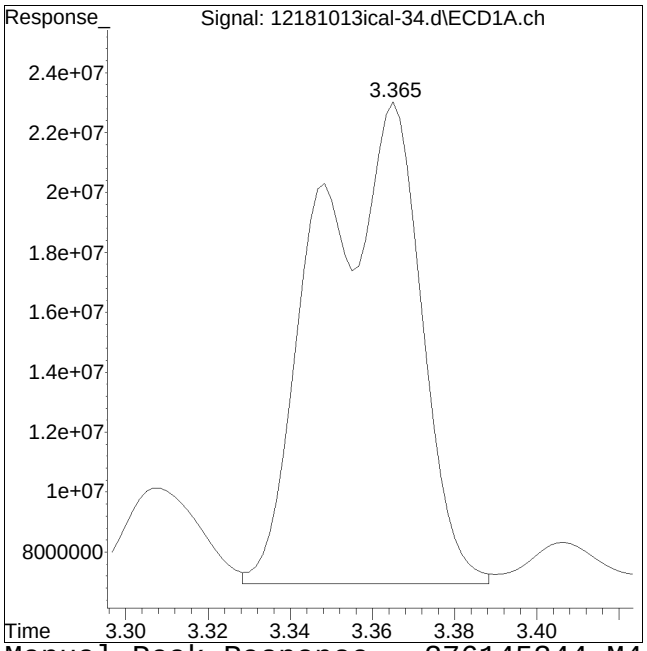
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-34.d
Date Inj'd : 10/13/2018 5:54 pm
Sample : cicv3262,42e,,8849

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/22/2018 12:47 pm

Compound #42: 1232-3





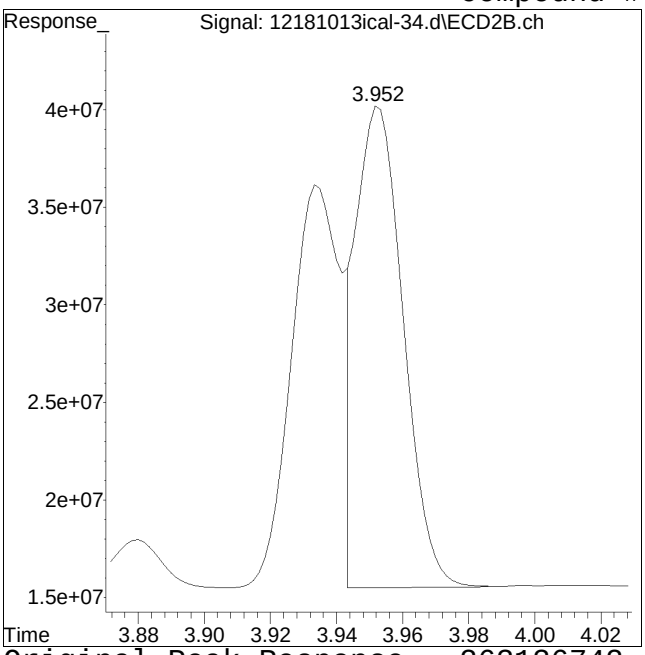
Original Peak Response = 287031320 Manual Peak Response = 276145344 M4
M4 = Poor automated baseline construction.

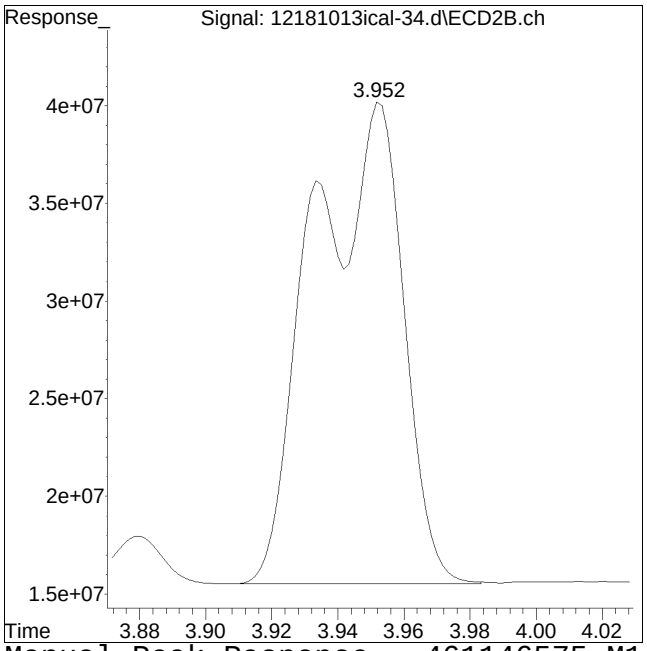
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-34.d
Date Inj'd : 10/13/2018 5:54 pm
Sample : cicv3262,42e,,8849

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/22/2018 12:47 pm

Compound #92: 1232-3 #2





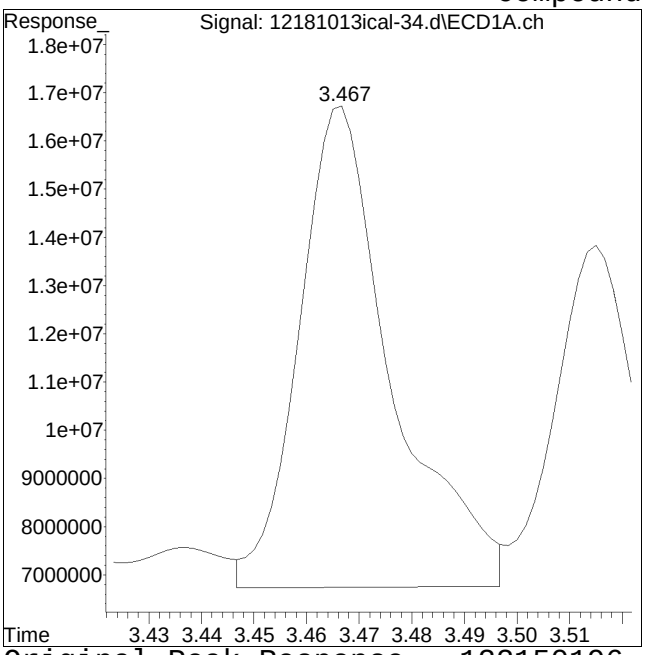
Original Peak Response = 263136742 Manual Peak Response = 461146575 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

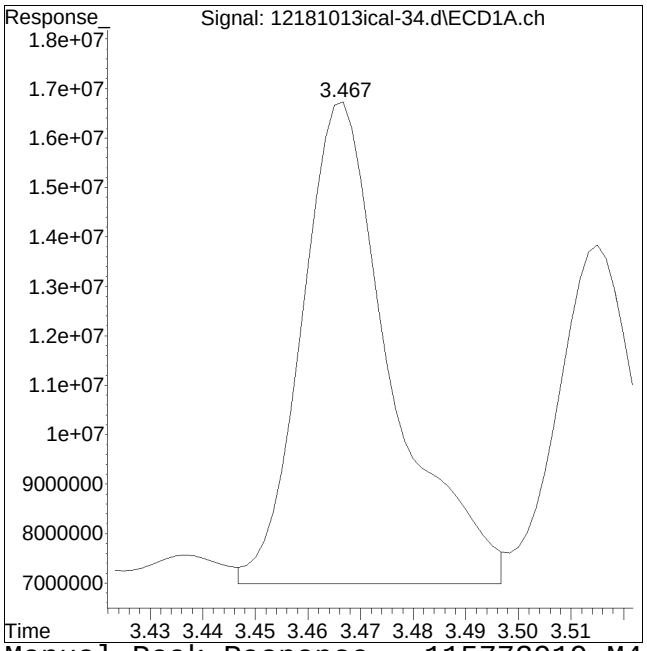
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-34.d
Date Inj'd : 10/13/2018 5:54 pm
Sample : cicv3262,42e,,8849

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/22/2018 12:47 pm

Compound #43: 1232-4



Original Peak Response = 122150196



Manual Peak Response = 115773919 M4

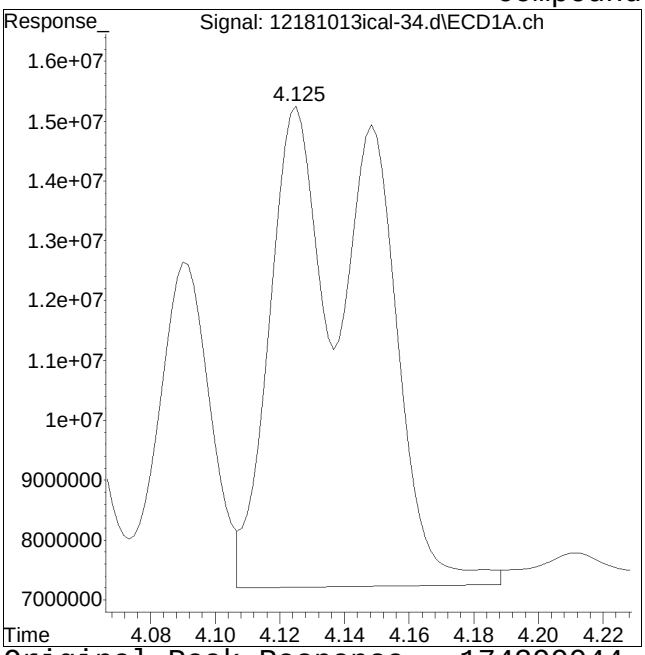
M4 = Poor automated baseline construction.

Manual Integration Report

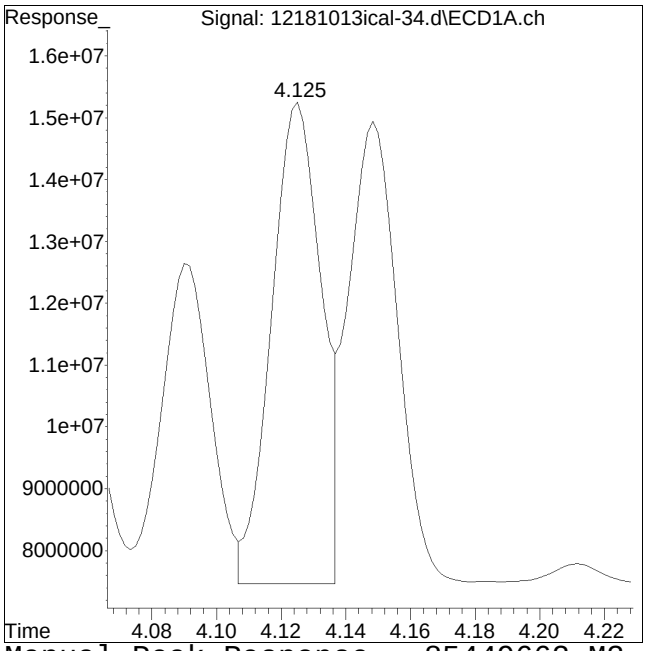
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-34.d
Date Inj'd : 10/13/2018 5:54 pm
Sample : cicv3262,42e,,8849

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/22/2018 12:47 pm

Compound #44: 1232-5



Original Peak Response = 174399944



Manual Peak Response = 85449662 M3

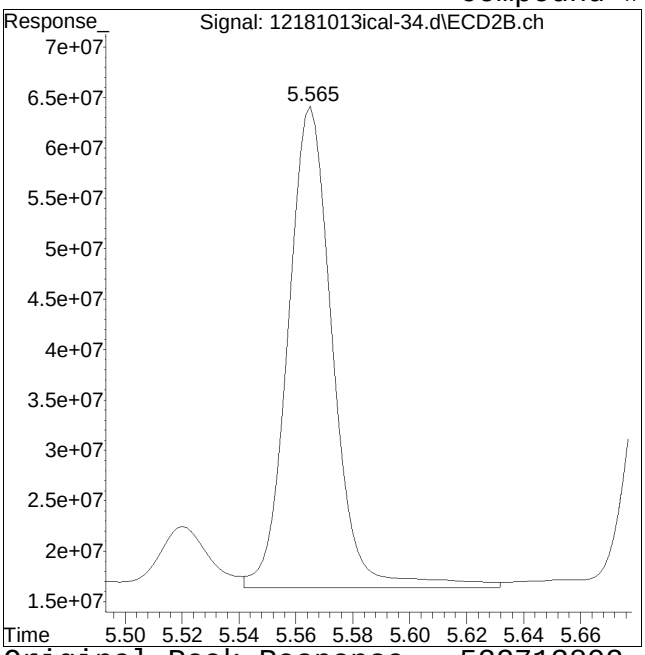
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

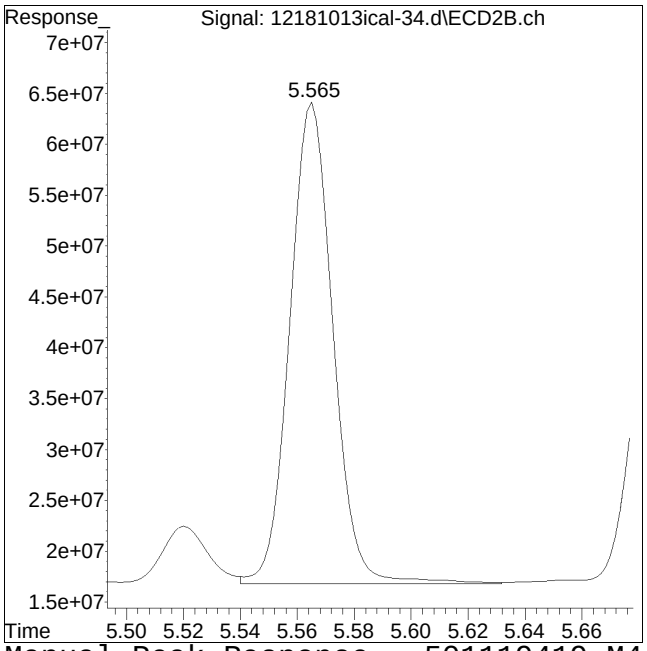
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-34.d
Date Inj'd : 10/13/2018 5:54 pm
Sample : cicv3262,42e,,8849

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/22/2018 12:47 pm

Compound #95: 1262-1 #2





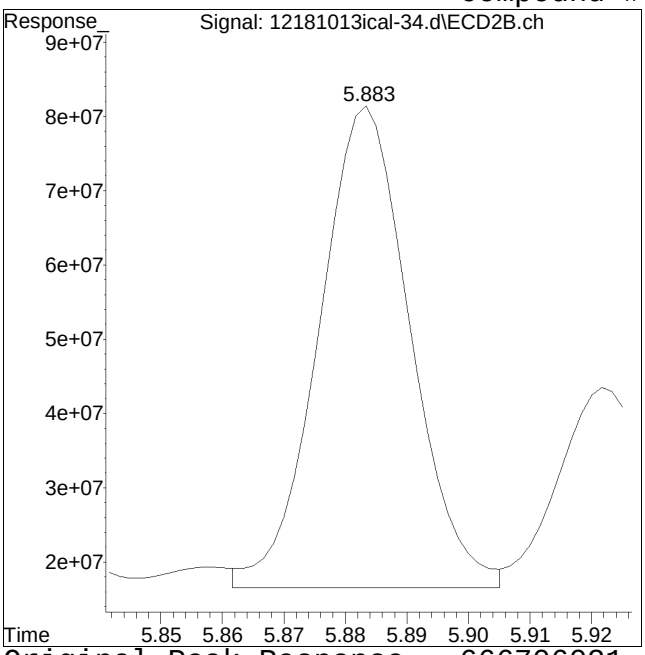
Original Peak Response = 522713802 Manual Peak Response = 501119419 M4
M4 = Poor automated baseline construction.

Manual Integration Report

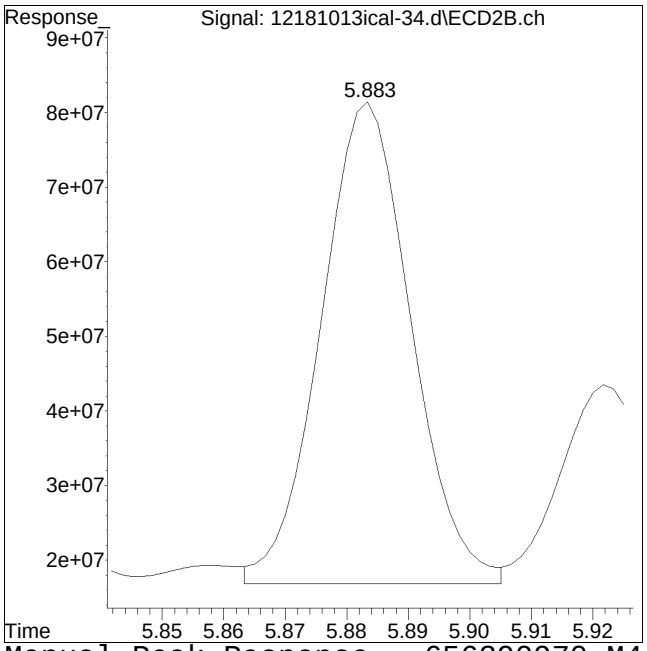
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-34.d
Date Inj'd : 10/13/2018 5:54 pm
Sample : cicv3262,42e,,8849

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/22/2018 12:47 pm

Compound #96: 1262-2 #2



Original Peak Response = 666706021



Manual Peak Response = 656390970 M4

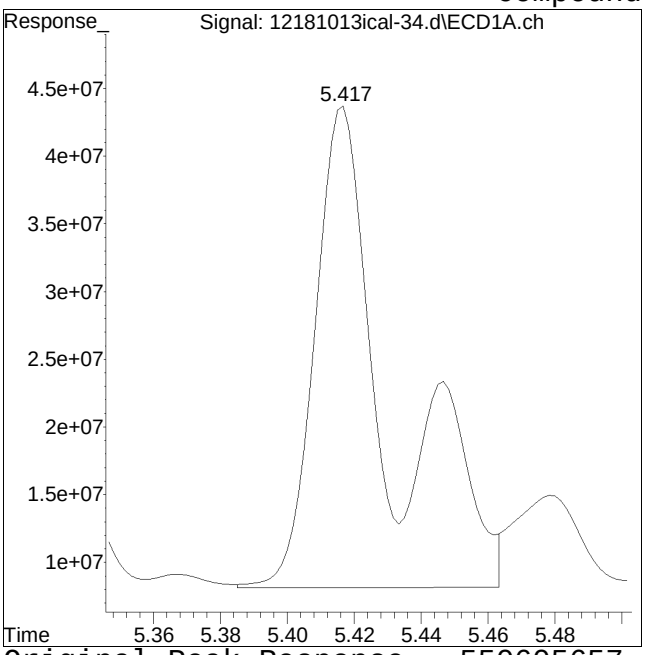
M4 = Poor automated baseline construction.

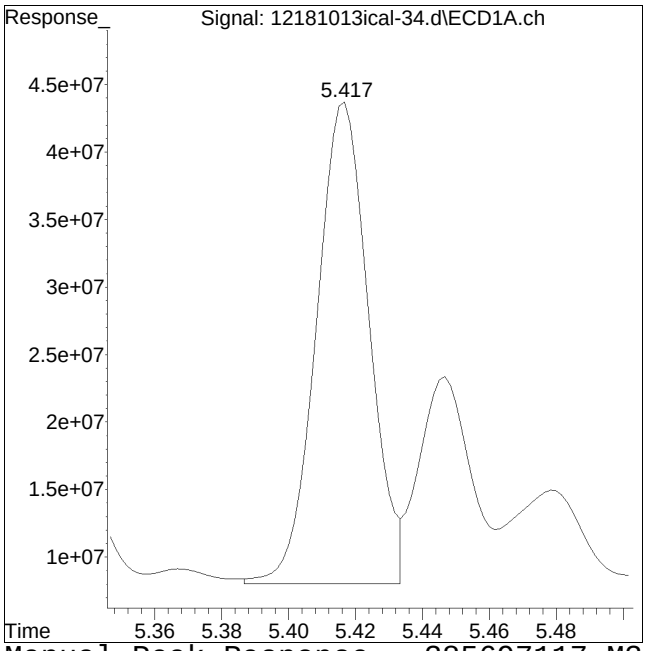
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-34.d
Date Inj'd : 10/13/2018 5:54 pm
Sample : cicv3262,42e,,8849

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/22/2018 12:47 pm

Compound #47: 1262-3





Original Peak Response = 550605657 Manual Peak Response = 385697117 M3

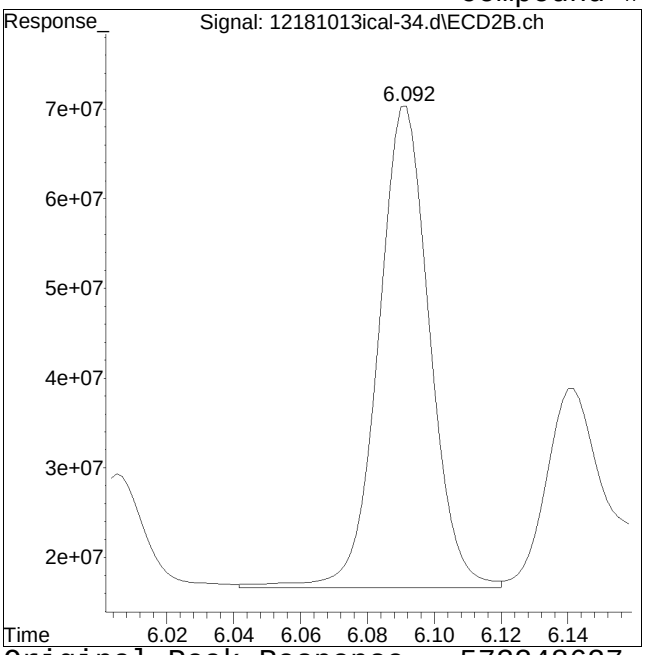
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

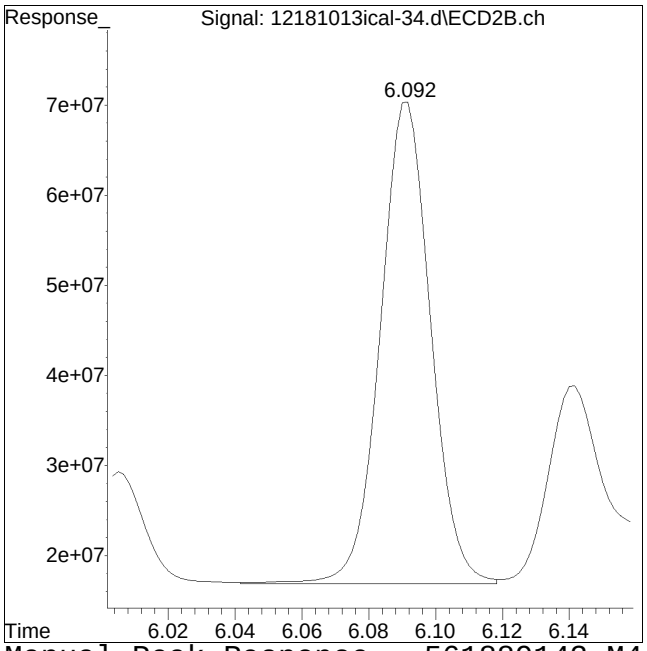
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-34.d
Date Inj'd : 10/13/2018 5:54 pm
Sample : cicv3262,42e,,8849

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/22/2018 12:47 pm

Compound #97: 1262-3 #2



Original Peak Response = 573248627



Manual Peak Response = 561889143 M4

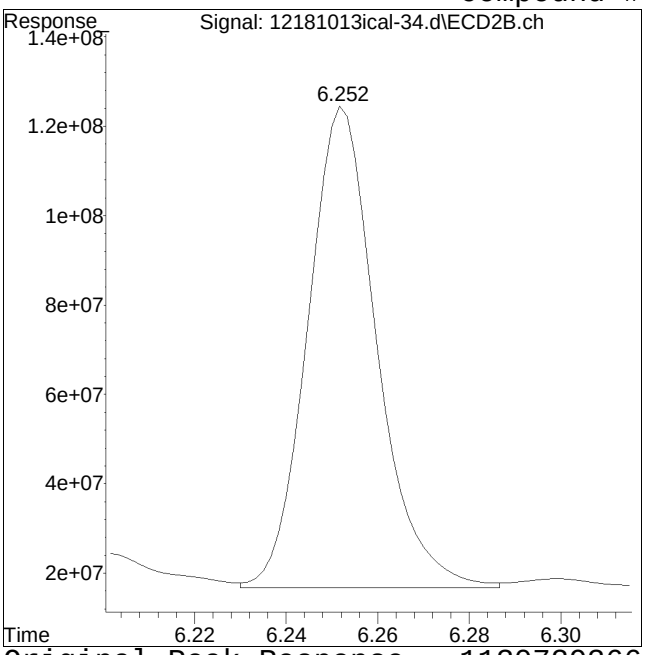
M4 = Poor automated baseline construction.

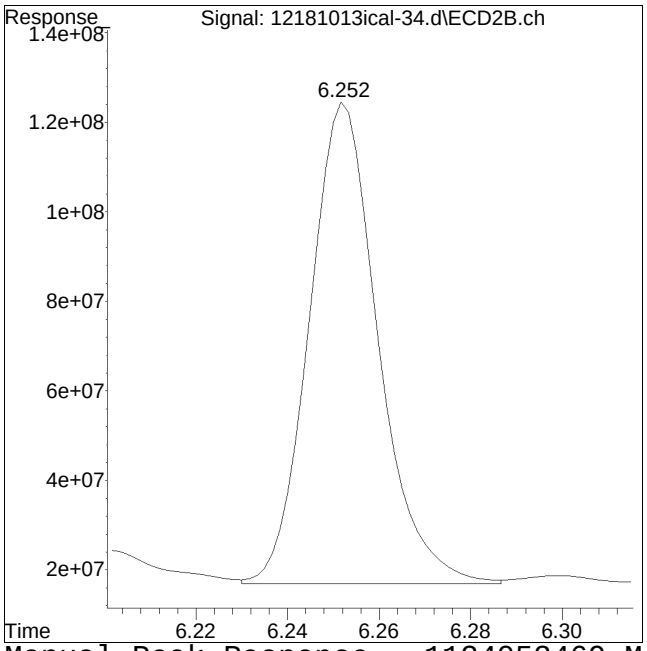
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-34.d
Date Inj'd : 10/13/2018 5:54 pm
Sample : cicv3262,42e,,8849

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/22/2018 12:47 pm

Compound #98: 1262-4 #2





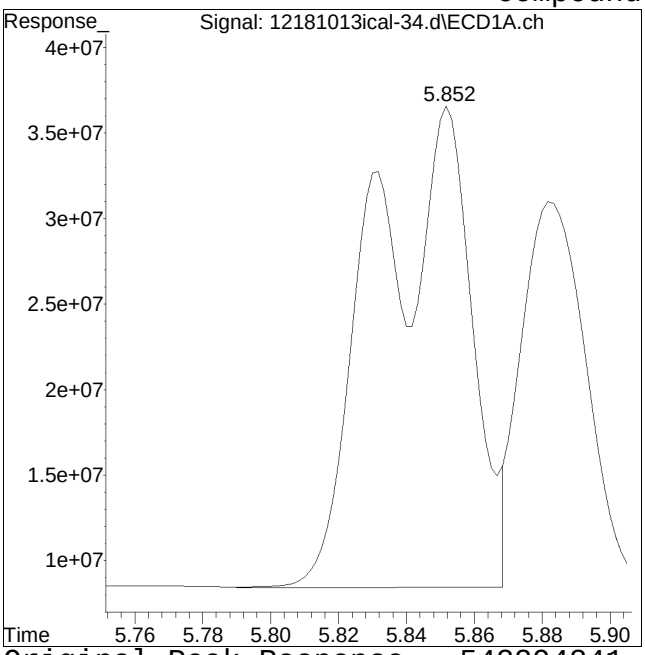
Original Peak Response = 1130729366 Manual Peak Response = 1124052469 M4
M4 = Poor automated baseline construction.

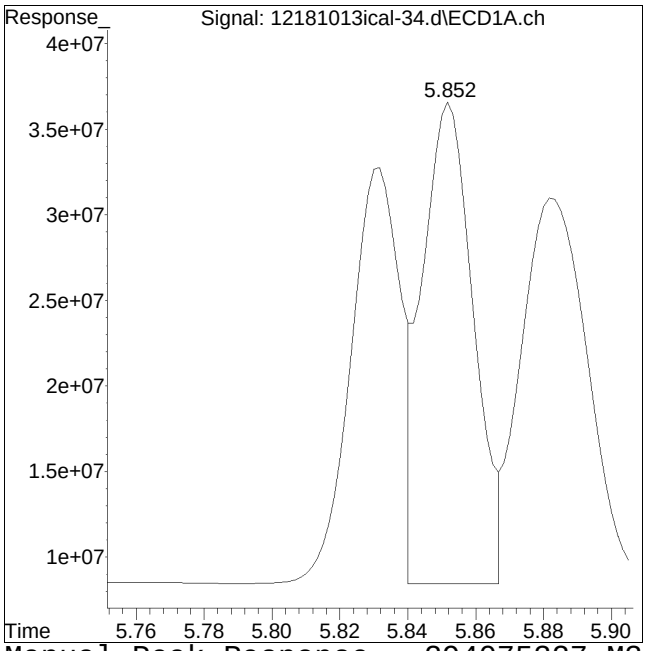
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-34.d
Date Inj'd : 10/13/2018 5:54 pm
Sample : cicv3262,42e,,8849

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/22/2018 12:47 pm

Compound #49: 1262-5





Original Peak Response = 542294241 Manual Peak Response = 294075327 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Evaluate Continuing Calibration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-35.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 13 Oct 2018   6:07 pm
Operator : Pest12:kb
Sample   : cicv1248,42e,,8850
Misc   : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 34   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 11:38:59 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 11:24:38 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	250.000	250.000	0.0	107	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen	160.000	153.534	4.0	106	0.00
3	s	Decachlorobiphenyl	320.000	311.254	2.7	106	0.00
13	i	2154_1br2nb	250.000	250.000	0.0	106	0.00
22	i	4268_1br2nb	250.000	250.000	0.0	109	0.00
33	i	1248_1br2nb	250.000	250.000	0.0	101	0.00
34	l7	1248-1	2500.000	2520.107	-0.8	105	0.00
35	l7	1248-2	2500.000	2478.794	0.8	101	0.00
36	l7	1248-3	2500.000	2505.939	-0.2	107	0.00
37	l7	1248-4	2500.000	2508.711	-0.3	111	0.00
38	l7	1248-5	2500.000	2602.918	-4.1	115	0.00
39	i	3262_1br2nb	250.000	250.000	0.0	104	0.00

Signal #2

1	i	1660_1br2nb	250.000	250.000	0.0	105	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl	160.000	150.494	5.9	103	0.00
3	s	Decachlorobiphenyl	320.000	305.868	4.4	105	0.00
13	i	2154_1br2nb	250.000	250.000	0.0	103	0.00
22	i	4268_1br2nb	250.000	250.000	0.0	110	0.00
33	i	1248_1br2nb	250.000	250.000	0.0	100	0.00
34	l7	1248-1	2500.000	2324.166	7.0	97	0.00
35	l7	1248-2	2500.000	2439.823	2.4	101	0.00

Evaluate Continuing Calibration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-35.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 13 Oct 2018   6:07 pm
Operator : Pest12:kb
Sample   : cicv1248,42e,,8850
Misc   : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 34   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 11:38:59 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 11:24:38 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
36	l7	1248-3	2500.000	2558.141	-2.3	106	0.00
37	l7	1248-4	2500.000	2643.169	-5.7	108	0.00
38	l7	1248-5	2500.000	2718.611	-8.7	110	0.00
39	i	3262_1br2nb	250.000	250.000	0.0	103	0.00

Evaluate Continuing Calibration Report - Not Founds

4	l1	1016-1	2500.000	0.000	100.0#	0	-2.78#
5	l1	1016-2	2500.000	0.000	100.0#	0	-3.02#
6	l1	1016-3	2500.000	0.000	100.0#	0	-3.37#
7	l1	1016-4	2500.000	0.000	100.0#	0	-3.47#
8	l1	1016-5	2500.000	0.000	100.0#	0	-3.79#
9	l2	1260-2	2500.000	0.000	100.0#	0	-4.95#
10	l2	1260-3	2500.000	0.000	100.0#	0	-5.42#
11	l2	1260-4	2500.000	0.000	100.0#	0	-5.63#
12	l2	1260-5	2500.000	0.000	100.0#	0	-5.83#
14	l3	1221-1	2500.000	0.000	100.0#	0	-2.65#
15	l3	1221-2	2500.000	0.000	100.0#	0	-2.75#
16	l3	1221-3	2500.000	0.000	100.0#	0	-2.78#
17	l4	1254-1	2500.000	0.000	100.0#	0	-4.09#
18	l4	1254-2	2500.000	0.000	100.0#	0	-4.29#
19	l4	1254-3	2500.000	0.000	100.0#	0	-4.61#
20	l4	1254-4	2500.000	0.000	100.0#	0	-4.82#
21	l4	1254-5	2500.000	0.000	100.0#	0	-5.16#
23	l6	1242-1	2500.000	0.000	100.0#	0	-2.78#
24	l6	1242-2	2500.000	0.000	100.0#	0	-3.02#
25	l6	1242-3	2500.000	0.000	100.0#	0	-3.37#
26	l6	1242-4	2500.000	0.000	100.0#	0	-3.79#
27	l6	1242-5	2500.000	0.000	100.0#	0	-4.13#
28	l9	1268-1	2500.000	0.000	100.0#	0	-5.86#

Evaluate Continuing Calibration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-35.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 13 Oct 2018   6:07 pm
Operator : Pest12:kb
Sample   : cicv1248,42e,,8850
Misc   : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 34   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 11:38:59 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 11:24:38 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
29	l9	1268-2	2500.000	0.000	100.0#	0	-5.88#
30	l9	1268-3	2500.000	0.000	100.0#	0	-6.02#
31	l9	1268-4	2500.000	0.000	100.0#	0	-6.25#
32	l9	1268-5	2500.000	0.000	100.0#	0	-6.44#
40	l5	1232-1	2500.000	0.000	100.0#	0	-2.78#
41	l5	1232-2	2500.000	0.000	100.0#	0	-3.02#
42	l5	1232-3	2500.000	0.000	100.0#	0	-3.37#
43	l5	1232-4	2500.000	0.000	100.0#	0	-3.47#
44	l5	1232-5	2500.000	0.000	100.0#	0	-4.13#
45	l8	1262-1	2500.000	0.000	100.0#	0	-4.95#
46	l8	1262-2	2500.000	0.000	100.0#	0	-5.24#
47	l8	1262-3	2500.000	0.000	100.0#	0	-5.42#
48	l8	1262-4	2500.000	0.000	100.0#	0	-5.63#
49	l8	1262-5	2500.000	0.000	100.0#	0	-5.85#

Signal #2

4	l1	1016-1	2500.000	0.000	100.0#	0	-3.23#
5	l1	1016-2	2500.000	0.000	100.0#	0	-3.56#
6	l1	1016-3	2500.000	0.000	100.0#	0	-3.95#
7	l1	1016-4	2500.000	0.000	100.0#	0	-4.07#
8	l1	1016-5	2500.000	0.000	100.0#	0	-4.45#
9	l2	1260-2	2500.000	0.000	100.0#	0	-5.57#
10	l2	1260-3	2500.000	0.000	100.0#	0	-6.09#
11	l2	1260-4	2500.000	0.000	100.0#	0	-6.25#
12	l2	1260-5	2500.000	0.000	100.0#	0	-6.51#
14	l3	1221-1	2500.000	0.000	100.0#	0	-3.07#
15	l3	1221-2	2500.000	0.000	100.0#	0	-3.18#
16	l3	1221-3	2500.000	0.000	100.0#	0	-3.23#
17	l4	1254-1	2500.000	0.000	100.0#	0	-4.79#
18	l4	1254-2	2500.000	0.000	100.0#	0	-4.93#

Evaluate Continuing Calibration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-35.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 13 Oct 2018   6:07 pm
Operator : Pest12:kb
Sample   : cicv1248,42e,,8850
Misc   : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 34   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 11:38:59 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 11:24:38 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
19	l4 1254-3	2500.000	0.000	100.0#	0	-5.28#
20	l4 1254-4	2500.000	0.000	100.0#	0	-5.44#
21	l4 1254-5	2500.000	0.000	100.0#	0	-5.82#
23	l6 1242-1	2500.000	0.000	100.0#	0	-3.23#
24	l6 1242-2	2500.000	0.000	100.0#	0	-3.56#
25	l6 1242-3	2500.000	0.000	100.0#	0	-3.95#
26	l6 1242-4	2500.000	0.000	100.0#	0	-4.45#
27	l6 1242-5	2500.000	0.000	100.0#	0	-4.75#
28	l9 1268-1	2500.000	0.000	100.0#	0	-6.49#
29	l9 1268-2	2500.000	0.000	100.0#	0	-6.53#
30	l9 1268-3	2500.000	0.000	100.0#	0	-6.70#
31	l9 1268-4	2500.000	0.000	100.0#	0	-6.88#
32	l9 1268-5	2500.000	0.000	100.0#	0	-7.10#
40	l5 1232-1	2500.000	0.000	100.0#	0	-3.23#
41	l5 1232-2	2500.000	0.000	100.0#	0	-3.56#
42	l5 1232-3	2500.000	0.000	100.0#	0	-3.95#
43	l5 1232-4	2500.000	0.000	100.0#	0	-4.07#
44	l5 1232-5	2500.000	0.000	100.0#	0	-4.75#
45	l8 1262-1	2500.000	0.000	100.0#	0	-5.56#
46	l8 1262-2	2500.000	0.000	100.0#	0	-5.88#
47	l8 1262-3	2500.000	0.000	100.0#	0	-6.09#
48	l8 1262-4	2500.000	0.000	100.0#	0	-6.25#
49	l8 1262-5	2500.000	0.000	100.0#	0	-6.50#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-35.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 6:07 pm
Operator : Pest12:kb
Sample : cicv1248,42e,,8850
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 11:38:59 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 11:24:38 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	2.069	2.224	808.9E6	1215.2E6	250.000M4	250.000M4
13) i	2154_1br2nb	2.069	2.224	808.9E6	1215.2E6	250.000M4	250.000M4
22) i	4268_1br2nb	2.069	2.224	808.9E6	1215.2E6	250.000M4	250.000M4
33) i	1248_1br2nb	2.069	2.224	808.9E6	1215.2E6	250.000M4	250.000M4
39) i	3262_1br2nb	2.069	2.224	808.9E6	1215.2E6	250.000M4	250.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.544	2.860	519.9E6	822.4E6	153.534M4	150.494M4
	Spiked Amount	500.000	Range 30 - 150		Recovery =	30.71%	30.10%
3) s	Decachlorobi	6.568	7.284	629.5E6	988.9E6	311.254	305.868M4
	Spiked Amount	500.000	Range 30 - 150		Recovery =	62.25%	61.17%
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1016-1			0	0	N.D.	N.D.
Average	1016-1					0.000	0.000
9) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1260-2			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-35.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 6:07 pm
Operator : Pest12:kb
Sample : cicv1248,42e,,8850
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 11:38:59 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 11:24:38 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1260-2					0.000	0.000
14) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
17) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
18) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
23) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
24) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
28) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
29) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
34) l7	1248-1	3.348	3.933	173.0E6	267.6E6	2520.107M3	2324.166M4

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-35.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 6:07 pm
Operator : Pest12:kb
Sample : cicv1248,42e,,8850
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 11:38:59 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 11:24:38 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
35) l7	1248-2	3.605	4.225	223.4E6	322.6E6	2478.794M3	2439.823M4
36) l7	1248-3	3.787	4.454	348.0E6	398.3E6	2505.939	2558.141M4
37) l7	1248-4	4.125	4.752	306.3E6	476.6E6	2508.711M3	2643.169M4
38) l7	1248-5	4.148	4.791	266.3E6	532.5E6	2602.918M3	2718.611M4
Sum	1248-1			1316.9E6	1997.6E6	12616.469	12683.909
Average	1248-1					2523.294	2536.782
40) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
41) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
45) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
46) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-35.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 6:07 pm
Operator : Pest12:kb
Sample : cicv1248,42e,,8850
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 11:38:59 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 11:24:38 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

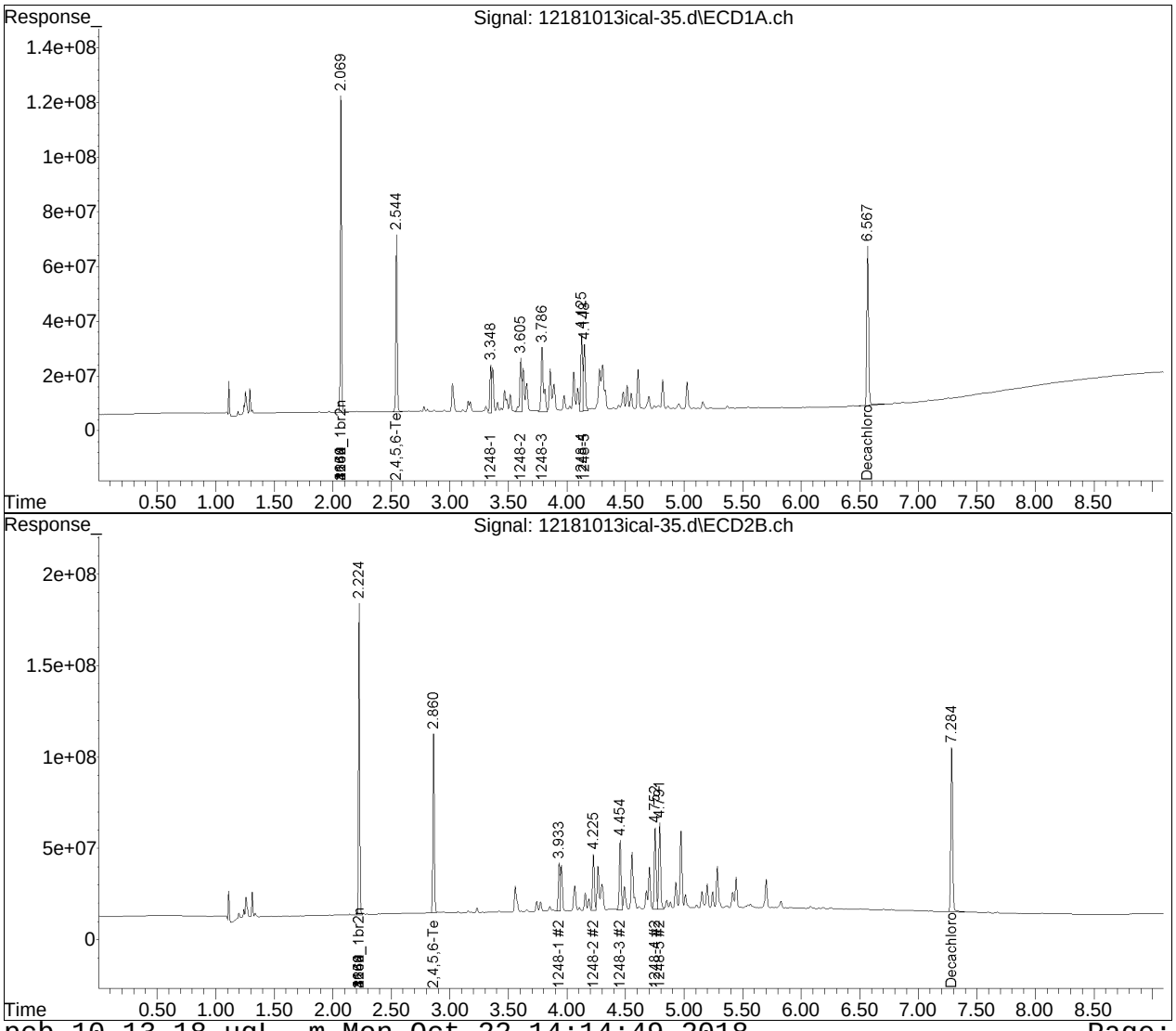
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-35.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 6:07 pm
Operator : Pest12:kb
Sample : cicv1248,42e,,8850
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 11:38:59 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 11:24:38 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

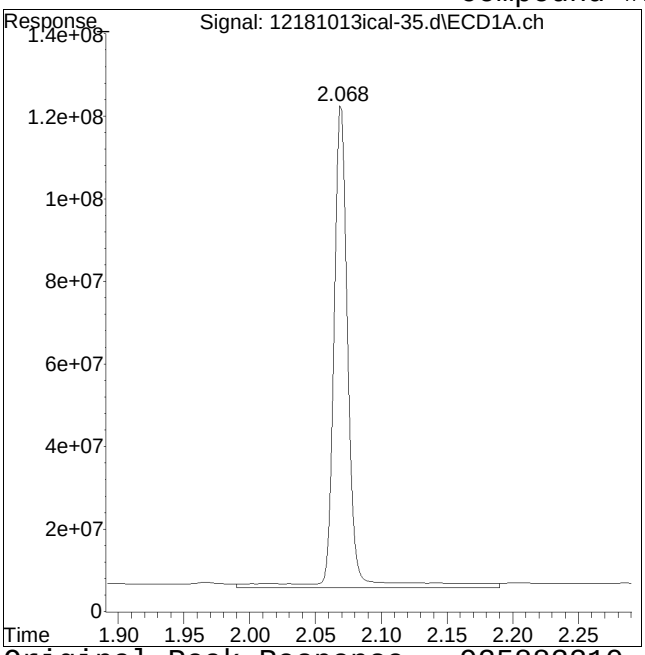


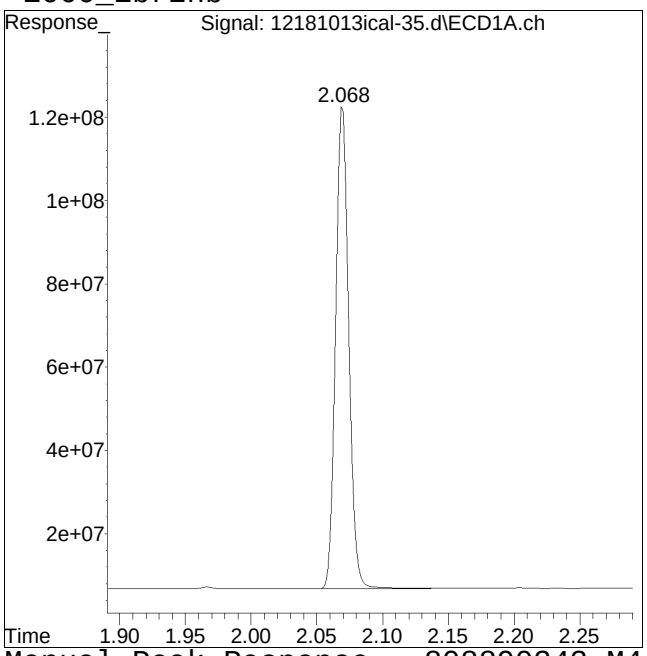
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-35.d
Date Inj'd : 10/13/2018 6:07 pm
Sample : cicv1248,42e,,8850

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:34 am

Compound #1: 1660_1br2nb





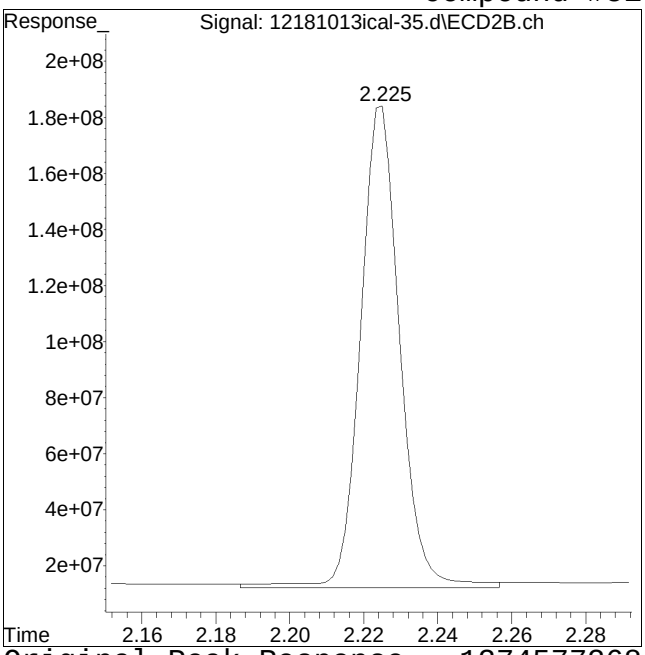
Original Peak Response = 925883310 Manual Peak Response = 808890343 M4
M4 = Poor automated baseline construction.

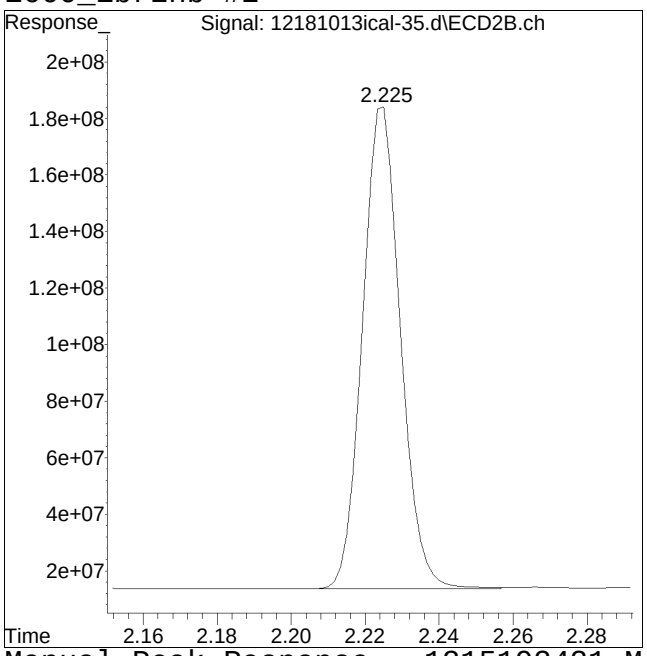
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-35.d
Date Inj'd : 10/13/2018 6:07 pm
Sample : cicv1248,42e,,8850

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:34 am

Compound #51: 1660_1br2nb #2





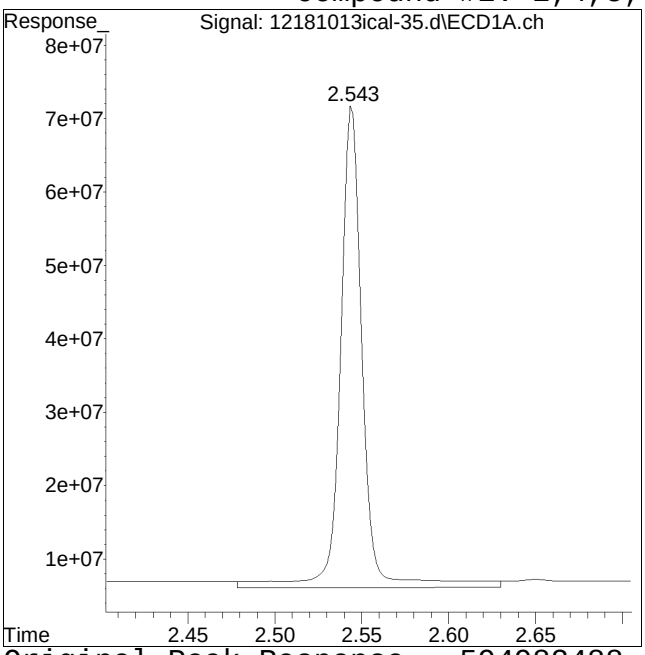
Original Peak Response = 1274577268 Manual Peak Response = 1215192421 M4
M4 = Poor automated baseline construction.

Manual Integration Report

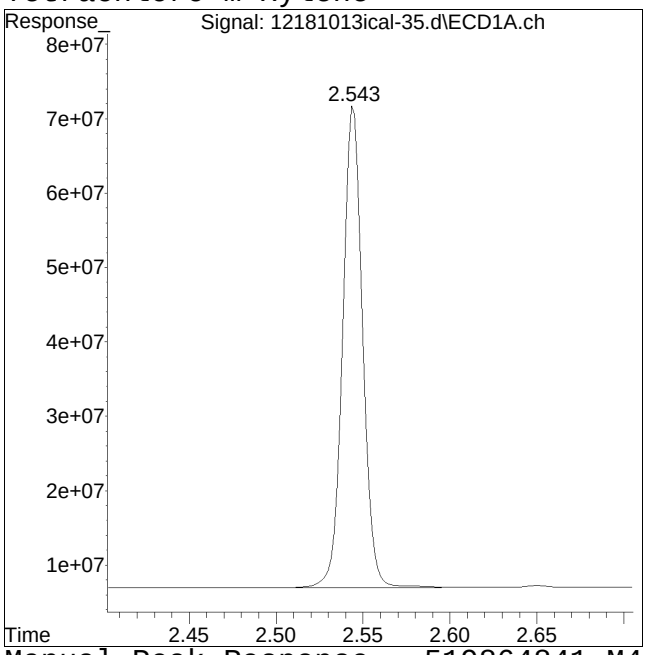
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-35.d
Date Inj'd : 10/13/2018 6:07 pm
Sample : cicv1248,42e,,8850

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:34 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 594982488



Manual Peak Response = 519864841 M4

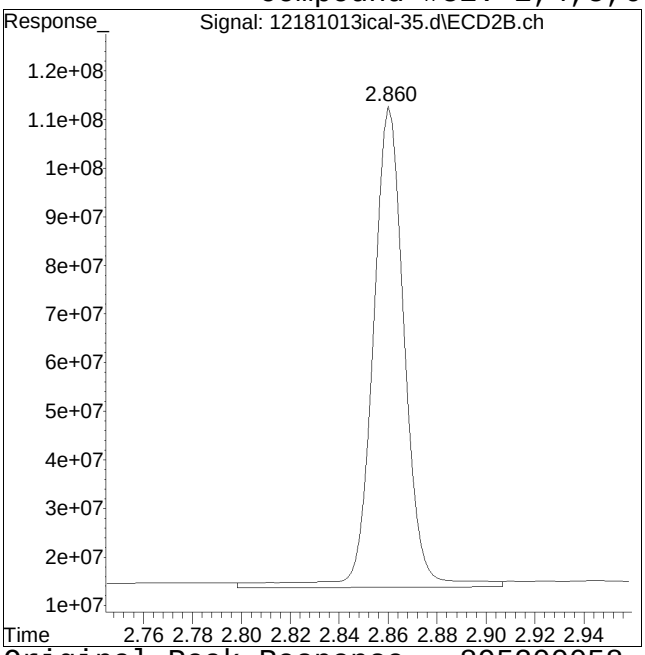
M4 = Poor automated baseline construction.

Manual Integration Report

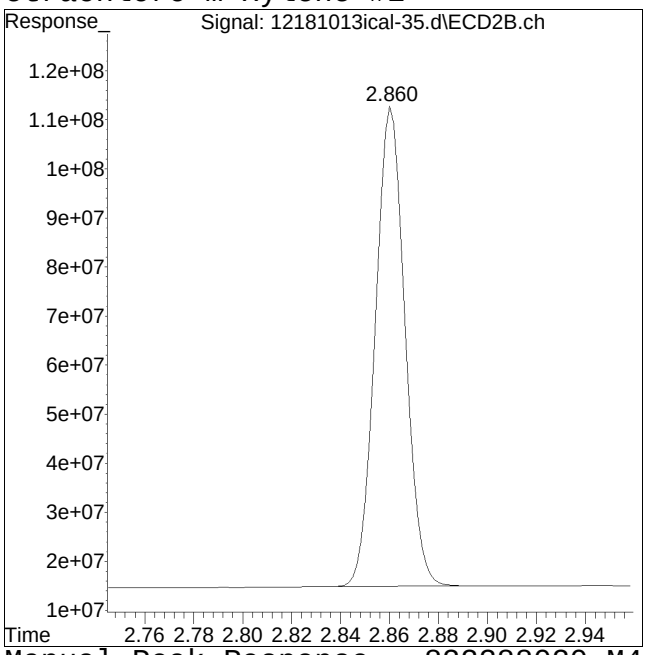
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-35.d
Date Inj'd : 10/13/2018 6:07 pm
Sample : cicv1248,42e,,8850

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:34 am

Compound #52: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 895200058



Manual Peak Response = 822388020 M4

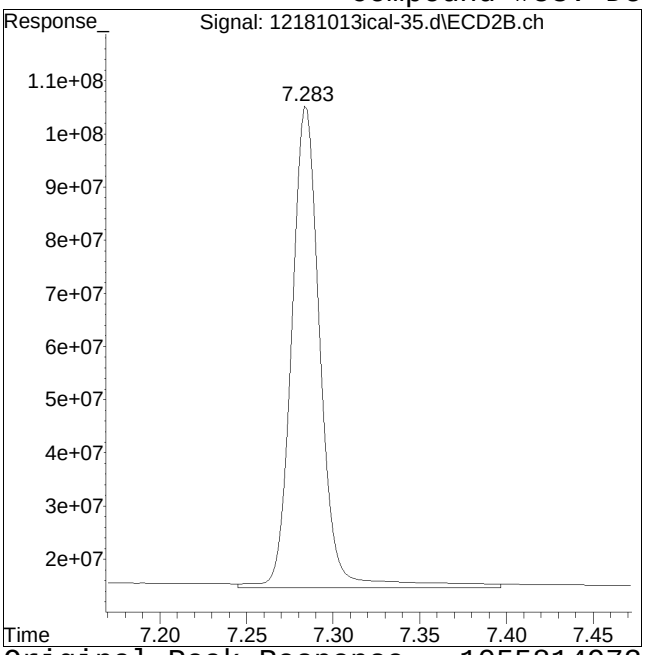
M4 = Poor automated baseline construction.

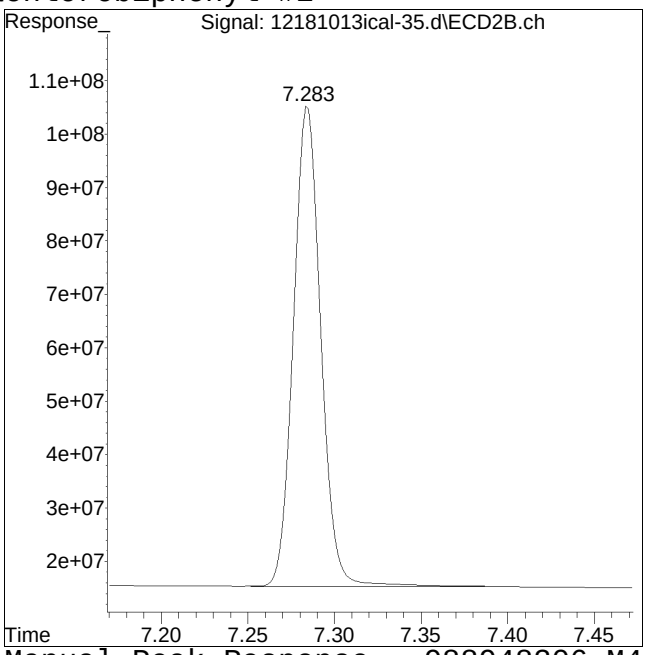
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-35.d
Date Inj'd : 10/13/2018 6:07 pm
Sample : cicv1248,42e,,8850

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:34 am

Compound #53: Decachlorobiphenyl #2





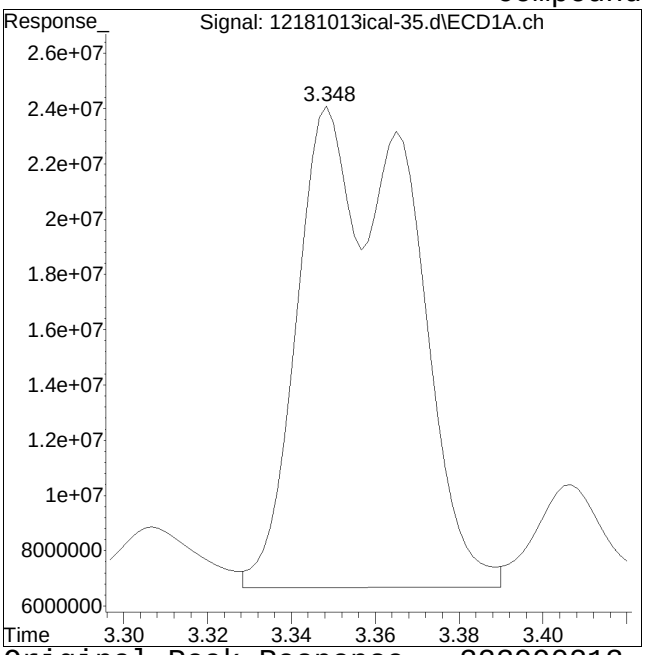
Original Peak Response = 1055814973 Manual Peak Response = 988948306 M4
M4 = Poor automated baseline construction.

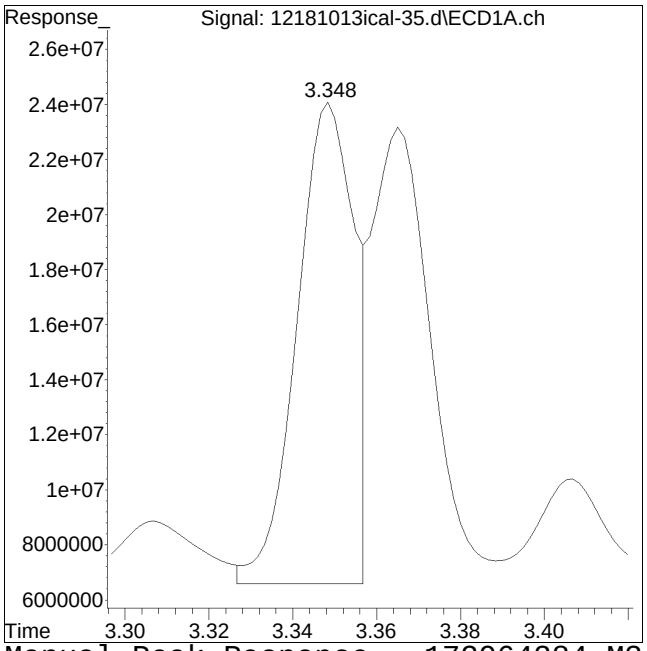
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-35.d
Date Inj'd : 10/13/2018 6:07 pm
Sample : cicv1248,42e,,8850

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:34 am

Compound #34: 1248-1





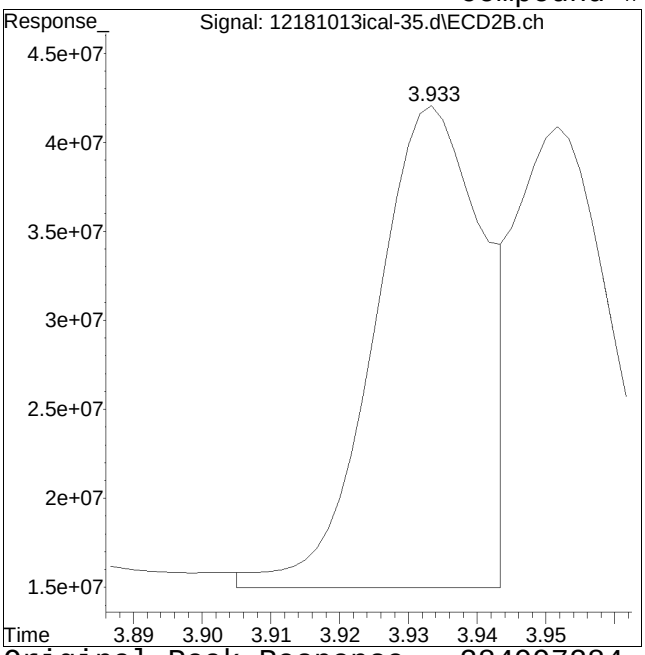
Original Peak Response = 323990213 Manual Peak Response = 172964284 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

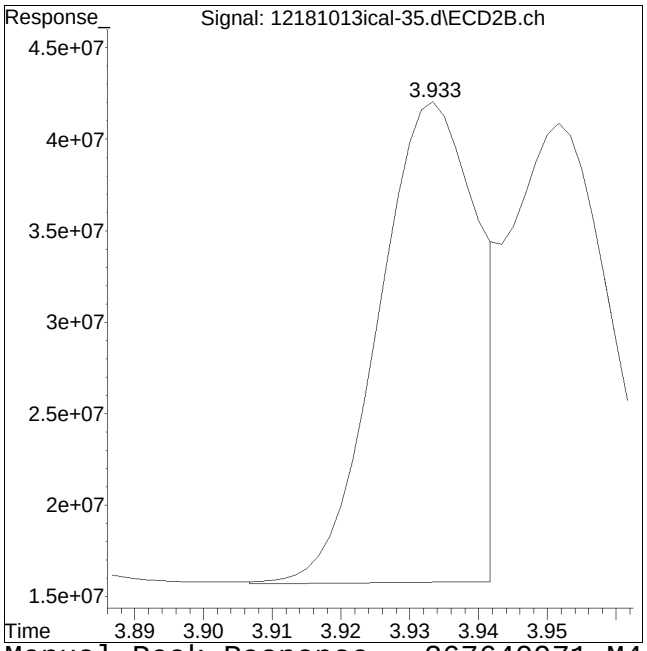
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-35.d
Date Inj'd : 10/13/2018 6:07 pm
Sample : cicv1248,42e,,8850

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:34 am

Compound #84: 1248-1 #2





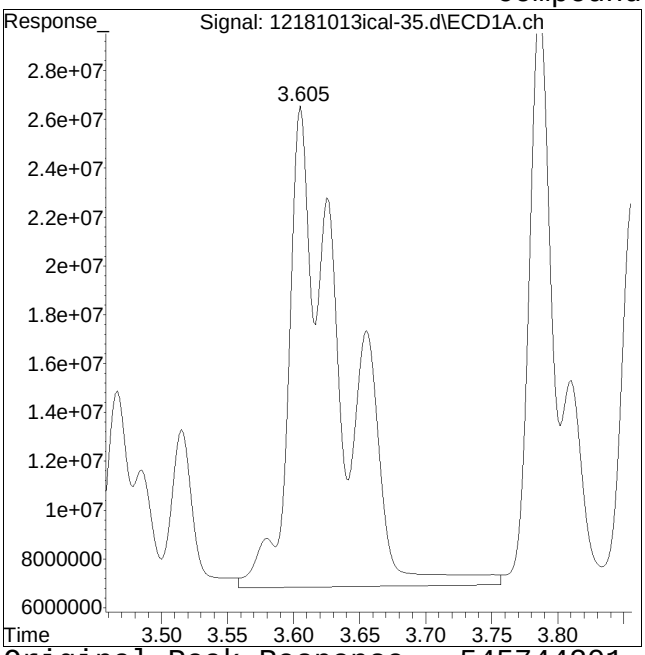
Original Peak Response = 284997284 Manual Peak Response = 267640971 M4
M4 = Poor automated baseline construction.

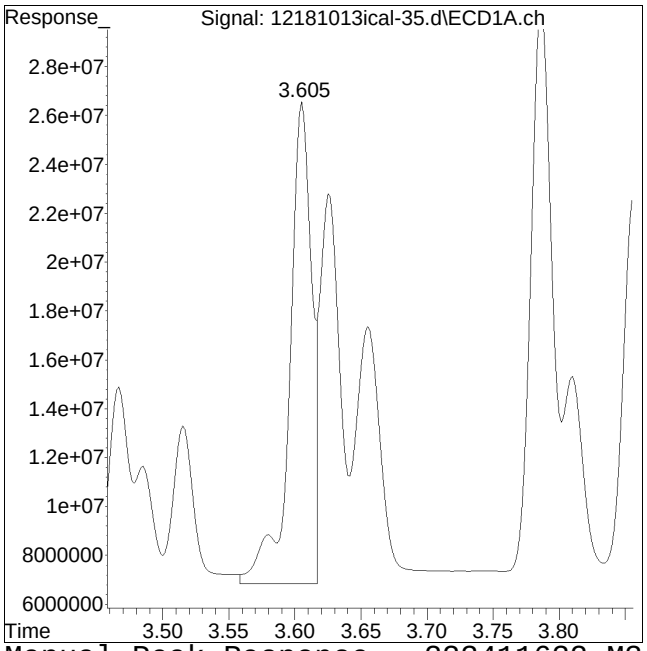
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-35.d
Date Inj'd : 10/13/2018 6:07 pm
Sample : cicv1248,42e,,8850

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:34 am

Compound #35: 1248-2





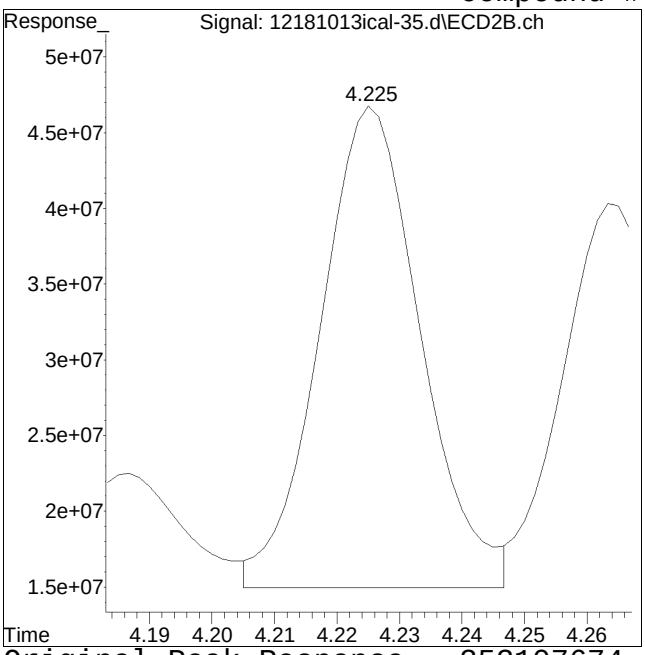
Original Peak Response = 545744201 Manual Peak Response = 223411632 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

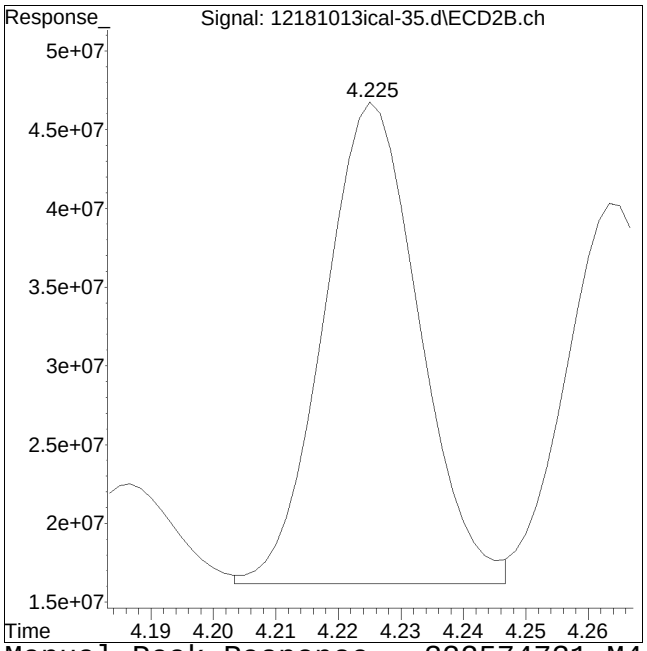
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-35.d
Date Inj'd : 10/13/2018 6:07 pm
Sample : cicv1248,42e,,8850

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:34 am

Compound #85: 1248-2 #2



Original Peak Response = 353107674



Manual Peak Response = 322574731 M4

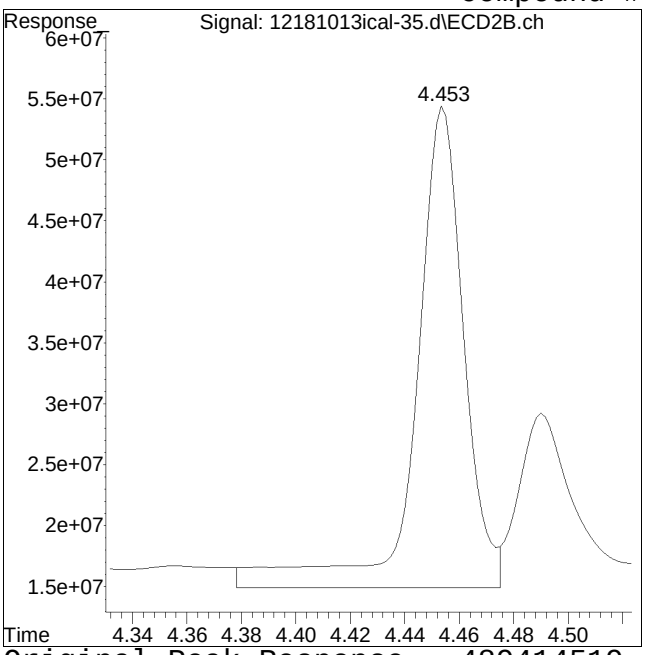
M4 = Poor automated baseline construction.

Manual Integration Report

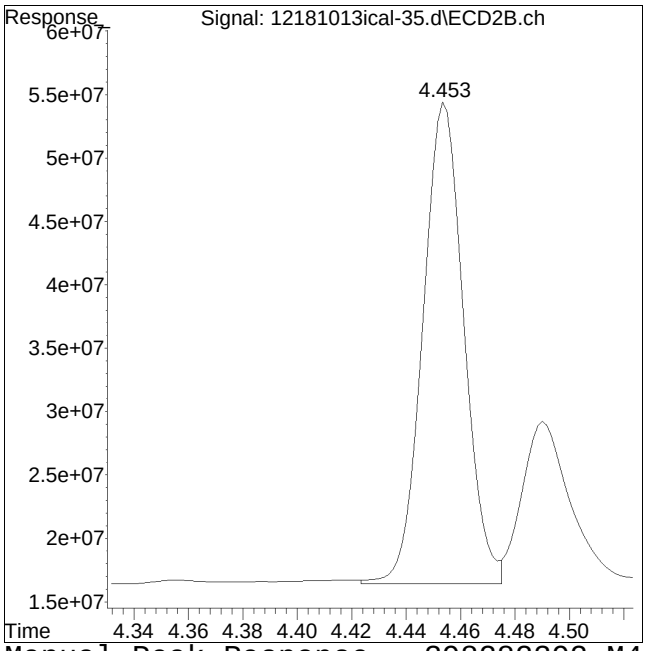
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-35.d
Date Inj'd : 10/13/2018 6:07 pm
Sample : cicv1248,42e,,8850

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:34 am

Compound #86: 1248-3 #2



Original Peak Response = 489414519



Manual Peak Response = 398282392 M4

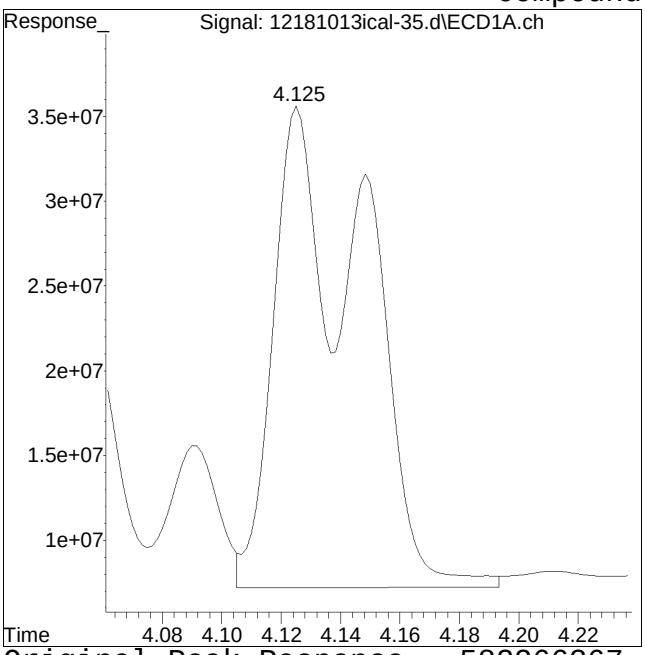
M4 = Poor automated baseline construction.

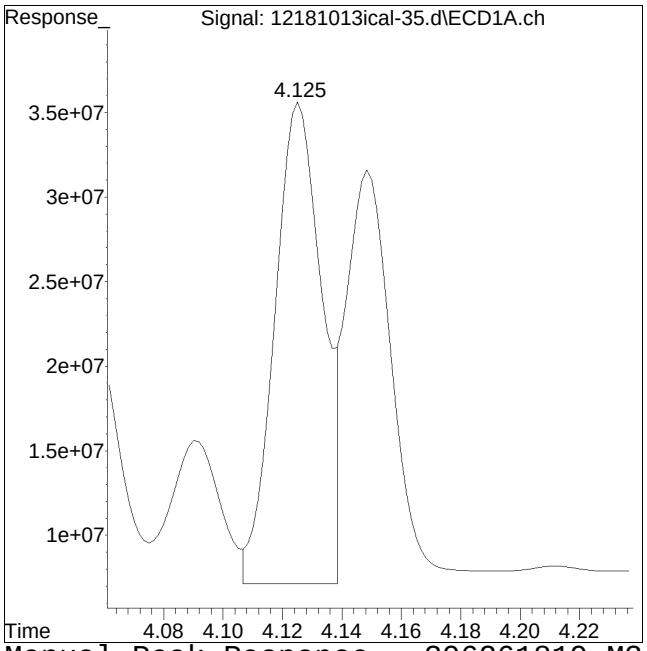
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-35.d
Date Inj'd : 10/13/2018 6:07 pm
Sample : cicv1248,42e,,8850

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:34 am

Compound #37: 1248-4





Original Peak Response = 582266367 Manual Peak Response = 306261819 M3

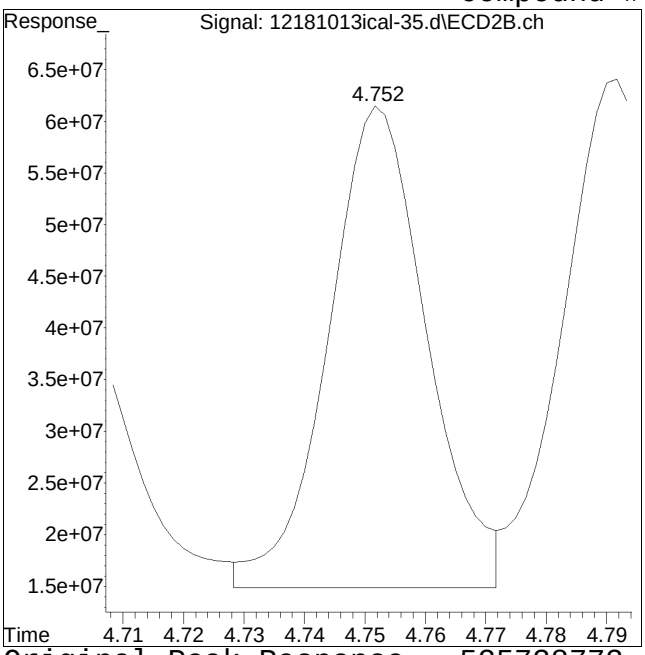
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

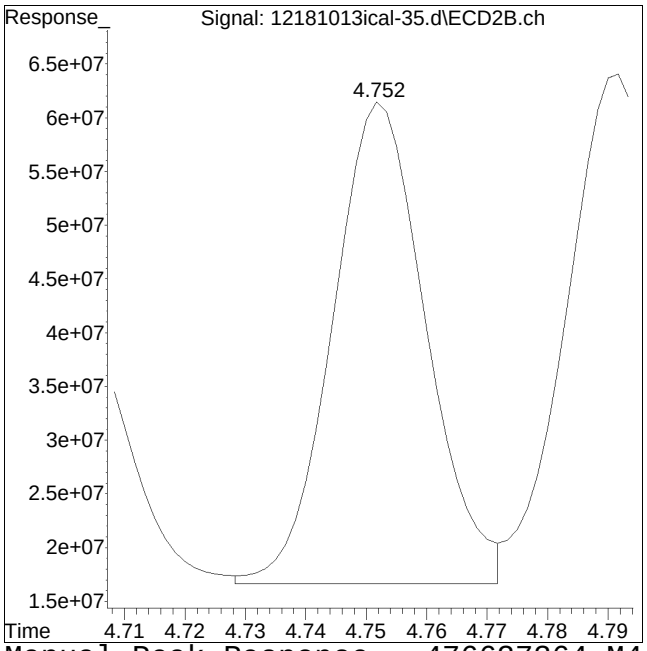
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-35.d
Date Inj'd : 10/13/2018 6:07 pm
Sample : cicv1248,42e,,8850

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:34 am

Compound #87: 1248-4 #2



Original Peak Response = 525738773



Manual Peak Response = 476637364 M4

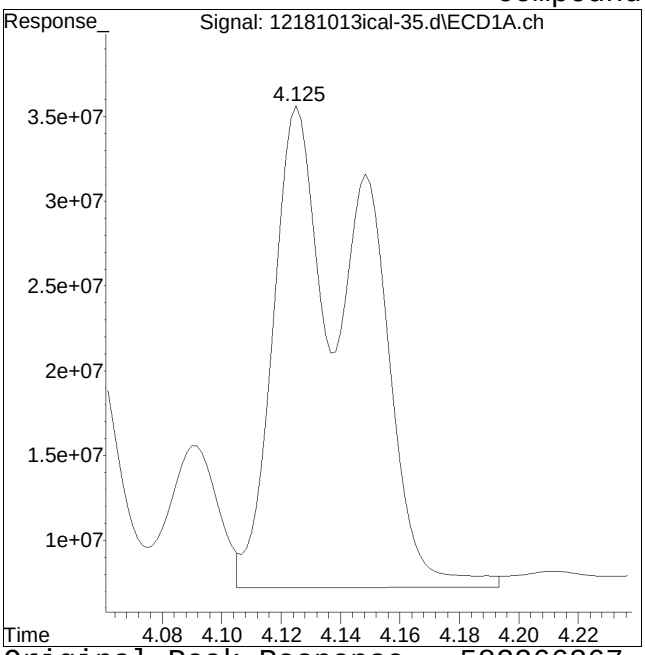
M4 = Poor automated baseline construction.

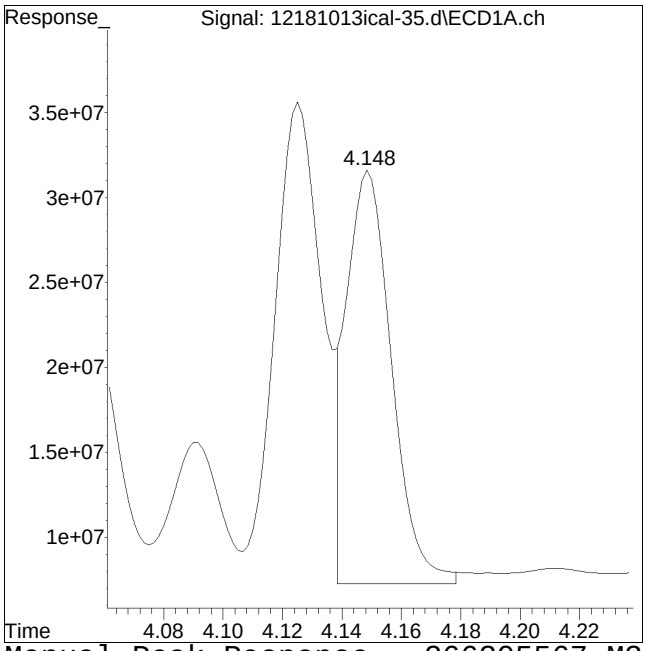
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-35.d
Date Inj'd : 10/13/2018 6:07 pm
Sample : cicv1248,42e,,8850

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:34 am

Compound #38: 1248-5





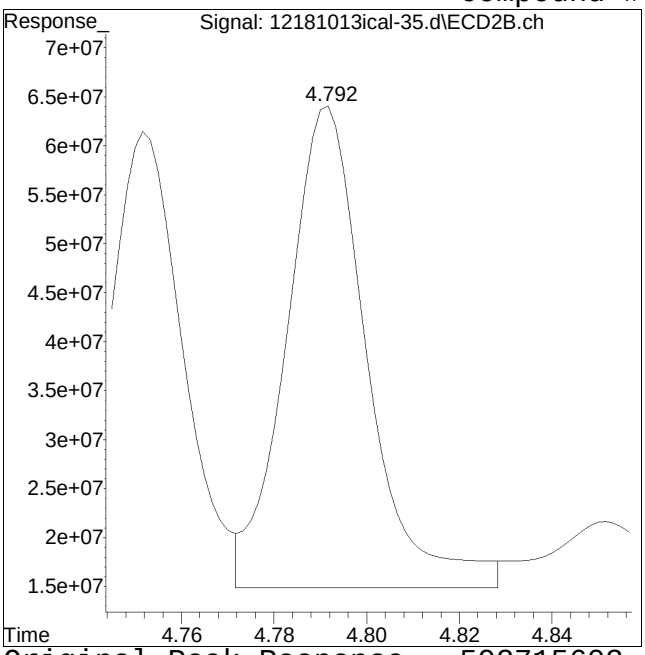
Original Peak Response = 582266367 Manual Peak Response = 266305567 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

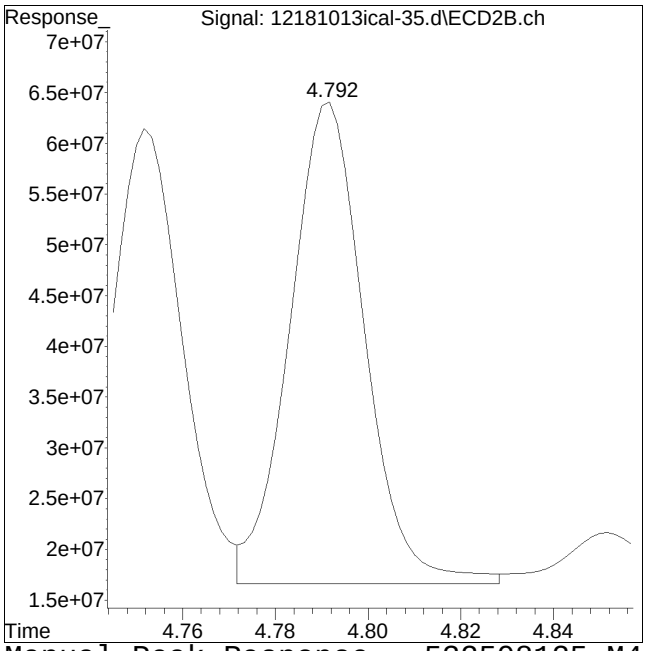
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-35.d
Date Inj'd : 10/13/2018 6:07 pm
Sample : cicv1248,42e,,8850

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:34 am

Compound #88: 1248-5 #2



Original Peak Response = 592715603



Manual Peak Response = 532508125 M4

M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-36.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 13 Oct 2018   6:19 pm
Operator : Pest12:kb
Sample   : cicv2154,42e,,8676
Misc   : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 35   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 11:57:26 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 11:57:05 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	250.000	250.000	0.0	114	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen	160.000	161.107	-0.7	119	0.00
3	s	Decachlorobiphenyl	320.000	332.006	-3.8	121	0.00
13	i	2154_1br2nb	250.000	250.000	0.0	113	0.00
14	l3	1221-1	2500.000	2392.777	4.3	112	0.00
15	l3	1221-2	2500.000	2411.666	3.5	111	0.00
16	l3	1221-3	2500.000	2321.896	7.1	111	0.00
17	l4	1254-1	2500.000	2162.315	13.5	102	0.00
18	l4	1254-2	2500.000	2212.150	11.5	103	0.00
19	l4	1254-3	2500.000	2233.078	10.7	103	0.00
20	l4	1254-4	2500.000	2275.864	9.0	102	0.00
21	l4	1254-5	2500.000	2131.226	14.8	96	0.00
22	i	4268_1br2nb	250.000	250.000	0.0	117	0.00
33	i	1248_1br2nb	250.000	250.000	0.0	108	0.00
39	i	3262_1br2nb	250.000	250.000	0.0	111	0.00

Signal #2

1	i	1660_1br2nb	250.000	250.000	0.0	112	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl	160.000	159.951	0.0	116	0.00
3	s	Decachlorobiphenyl	320.000	333.704	-4.3	121	0.00
13	i	2154_1br2nb	250.000	250.000	0.0	110	0.00
14	l3	1221-1	2500.000	2269.354	9.2	109	0.00
15	l3	1221-2	2500.000	2312.930	7.5	104	0.00
16	l3	1221-3	2500.000	2302.219	7.9	106	0.00

Evaluate Continuing Calibration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-36.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 13 Oct 2018   6:19 pm
Operator : Pest12:kb
Sample   : cicv2154,42e,,8676
Misc   : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 35   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 11:57:26 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 11:57:05 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
17	l4	1254-1	2500.000	2305.924	7.8	100	0.00
18	l4	1254-2	2500.000	2171.481	13.1	96	0.00
19	l4	1254-3	2500.000	2288.184	8.5	101	0.00
20	l4	1254-4	2500.000	2393.839	4.2	105	0.00
21	l4	1254-5	2500.000	2149.611	14.0	95	0.00
22	i	4268_1br2nb	250.000	250.000	0.0	116	0.00
33	i	1248_1br2nb	250.000	250.000	0.0	106	0.00
39	i	3262_1br2nb	250.000	250.000	0.0	110	0.00

Evaluate Continuing Calibration Report - Not Founds

4	l1	1016-1	2500.000	0.000	100.0#	0	-2.78#
5	l1	1016-2	2500.000	0.000	100.0#	0	-3.02#
6	l1	1016-3	2500.000	0.000	100.0#	0	-3.37#
7	l1	1016-4	2500.000	0.000	100.0#	0	-3.47#
8	l1	1016-5	2500.000	0.000	100.0#	0	-3.79#
9	l2	1260-2	2500.000	0.000	100.0#	0	-4.95#
10	l2	1260-3	2500.000	0.000	100.0#	0	-5.42#
11	l2	1260-4	2500.000	0.000	100.0#	0	-5.63#
12	l2	1260-5	2500.000	0.000	100.0#	0	-5.83#
23	l6	1242-1	2500.000	0.000	100.0#	0	-2.78#
24	l6	1242-2	2500.000	0.000	100.0#	0	-3.02#
25	l6	1242-3	2500.000	0.000	100.0#	0	-3.37#
26	l6	1242-4	2500.000	0.000	100.0#	0	-3.79#
27	l6	1242-5	2500.000	0.000	100.0#	0	-4.13#
28	l9	1268-1	2500.000	0.000	100.0#	0	-5.86#
29	l9	1268-2	2500.000	0.000	100.0#	0	-5.88#
30	l9	1268-3	2500.000	0.000	100.0#	0	-6.02#

Evaluate Continuing Calibration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-36.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 13 Oct 2018   6:19 pm
Operator : Pest12:kb
Sample   : cicv2154,42e,,8676
Misc   : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 35   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 11:57:26 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 11:57:05 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
31	l9	1268-4	2500.000	0.000	100.0#	0	-6.25#
32	l9	1268-5	2500.000	0.000	100.0#	0	-6.44#
34	l7	1248-1	2500.000	0.000	100.0#	0	-3.35#
35	l7	1248-2	2500.000	0.000	100.0#	0	-3.61#
36	l7	1248-3	2500.000	0.000	100.0#	0	-3.79#
37	l7	1248-4	2500.000	0.000	100.0#	0	-4.13#
38	l7	1248-5	2500.000	0.000	100.0#	0	-4.15#
40	l5	1232-1	2500.000	0.000	100.0#	0	-2.78#
41	l5	1232-2	2500.000	0.000	100.0#	0	-3.02#
42	l5	1232-3	2500.000	0.000	100.0#	0	-3.37#
43	l5	1232-4	2500.000	0.000	100.0#	0	-3.47#
44	l5	1232-5	2500.000	0.000	100.0#	0	-4.13#
45	l8	1262-1	2500.000	0.000	100.0#	0	-4.95#
46	l8	1262-2	2500.000	0.000	100.0#	0	-5.24#
47	l8	1262-3	2500.000	0.000	100.0#	0	-5.42#
48	l8	1262-4	2500.000	0.000	100.0#	0	-5.63#
49	l8	1262-5	2500.000	0.000	100.0#	0	-5.85#

Signal #2

4	l1	1016-1	2500.000	0.000	100.0#	0	-3.23#
5	l1	1016-2	2500.000	0.000	100.0#	0	-3.56#
6	l1	1016-3	2500.000	0.000	100.0#	0	-3.95#
7	l1	1016-4	2500.000	0.000	100.0#	0	-4.07#
8	l1	1016-5	2500.000	0.000	100.0#	0	-4.45#
9	l2	1260-2	2500.000	0.000	100.0#	0	-5.57#
10	l2	1260-3	2500.000	0.000	100.0#	0	-6.09#
11	l2	1260-4	2500.000	0.000	100.0#	0	-6.25#
12	l2	1260-5	2500.000	0.000	100.0#	0	-6.51#
23	l6	1242-1	2500.000	0.000	100.0#	0	-3.23#
24	l6	1242-2	2500.000	0.000	100.0#	0	-3.56#

Evaluate Continuing Calibration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-36.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 13 Oct 2018   6:19 pm
Operator : Pest12:kb
Sample   : cicv2154,42e,,8676
Misc   : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 35   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 11:57:26 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 11:57:05 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
25	l6 1242-3	2500.000	0.000	100.0#	0	-3.95#
26	l6 1242-4	2500.000	0.000	100.0#	0	-4.45#
27	l6 1242-5	2500.000	0.000	100.0#	0	-4.75#
28	l9 1268-1	2500.000	0.000	100.0#	0	-6.49#
29	l9 1268-2	2500.000	0.000	100.0#	0	-6.53#
30	l9 1268-3	2500.000	0.000	100.0#	0	-6.70#
31	l9 1268-4	2500.000	0.000	100.0#	0	-6.88#
32	l9 1268-5	2500.000	0.000	100.0#	0	-7.10#
34	l7 1248-1	2500.000	0.000	100.0#	0	-3.93#
35	l7 1248-2	2500.000	0.000	100.0#	0	-4.22#
36	l7 1248-3	2500.000	0.000	100.0#	0	-4.45#
37	l7 1248-4	2500.000	0.000	100.0#	0	-4.75#
38	l7 1248-5	2500.000	0.000	100.0#	0	-4.79#
40	l5 1232-1	2500.000	0.000	100.0#	0	-3.23#
41	l5 1232-2	2500.000	0.000	100.0#	0	-3.56#
42	l5 1232-3	2500.000	0.000	100.0#	0	-3.95#
43	l5 1232-4	2500.000	0.000	100.0#	0	-4.07#
44	l5 1232-5	2500.000	0.000	100.0#	0	-4.75#
45	l8 1262-1	2500.000	0.000	100.0#	0	-5.56#
46	l8 1262-2	2500.000	0.000	100.0#	0	-5.88#
47	l8 1262-3	2500.000	0.000	100.0#	0	-6.09#
48	l8 1262-4	2500.000	0.000	100.0#	0	-6.25#
49	l8 1262-5	2500.000	0.000	100.0#	0	-6.50#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-36.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 6:19 pm
Operator : Pest12:kb
Sample : cicv2154,42e,,8676
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 11:57:26 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 11:57:05 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	2.069	2.224	867.0E6	1288.0E6	250.000M4	250.000M4
13) i	2154_1br2nb	2.069	2.224	867.0E6	1288.0E6	250.000M4	250.000M4
22) i	4268_1br2nb	2.069	2.224	867.0E6	1288.0E6	250.000M4	250.000M4
33) i	1248_1br2nb	2.069	2.224	867.0E6	1288.0E6	250.000M4	250.000M4
39) i	3262_1br2nb	2.069	2.224	867.0E6	1288.0E6	250.000M4	250.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.544	2.860	584.7E6	926.4E6	161.107M4	159.951M4
	Spiked Amount	500.000	Range 30 - 150		Recovery =	32.22%	31.99%
3) s	Decachlorobi	6.568	7.285	719.7E6	1143.6E6	332.006	333.704
	Spiked Amount	500.000	Range 30 - 150		Recovery =	66.40%	66.74%
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-2			0	0	N.D.	N.D.

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-36.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 6:19 pm
Operator : Pest12:kb
Sample : cicv2154,42e,,8676
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 11:57:26 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 11:57:05 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1260-2					0.000	0.000
14) l3	1221-1	2.650	3.071	91351345	148.9E6	2392.777M4	2269.354
15) l3	1221-2	2.750	3.182	55450488	88933179	2411.666M4	2312.930
16) l3	1221-3	2.779	3.232	202.1E6	330.0E6	2321.896M4	2302.219
Sum	1221-1			348.9E6	567.9E6	7126.339	6884.503
Average	1221-1					2375.446	2294.834
17) l4	1254-1	4.091	4.788	267.0E6	477.1E6	2162.315M3	2305.924M4
18) l4	1254-2	4.294	4.928	483.3E6	521.3E6	2212.150M3	2171.481M4
19) l4	1254-3	4.606	5.283	467.7E6	809.0E6	2233.078M3	2288.184M4
20) l4	1254-4	4.817	5.444	371.2E6	556.0E6	2275.864	2393.839M4
21) l4	1254-5	5.160	5.827	463.0E6	650.5E6	2131.226	2149.611M4
Sum	1254-1			2052.1E6	3014.0E6	11014.634	11309.040
Average	1254-1					2202.927	2261.808
23) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
24) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
28) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
29) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-36.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 6:19 pm
Operator : Pest12:kb
Sample : cicv2154,42e,,8676
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 11:57:26 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 11:57:05 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average	1268-1					0.000	0.000
34) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
40) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
41) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
45) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
46) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument							
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-36.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 6:19 pm
Operator : Pest12:kb
Sample : cicv2154,42e,,8676
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 11:57:26 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 11:57:05 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

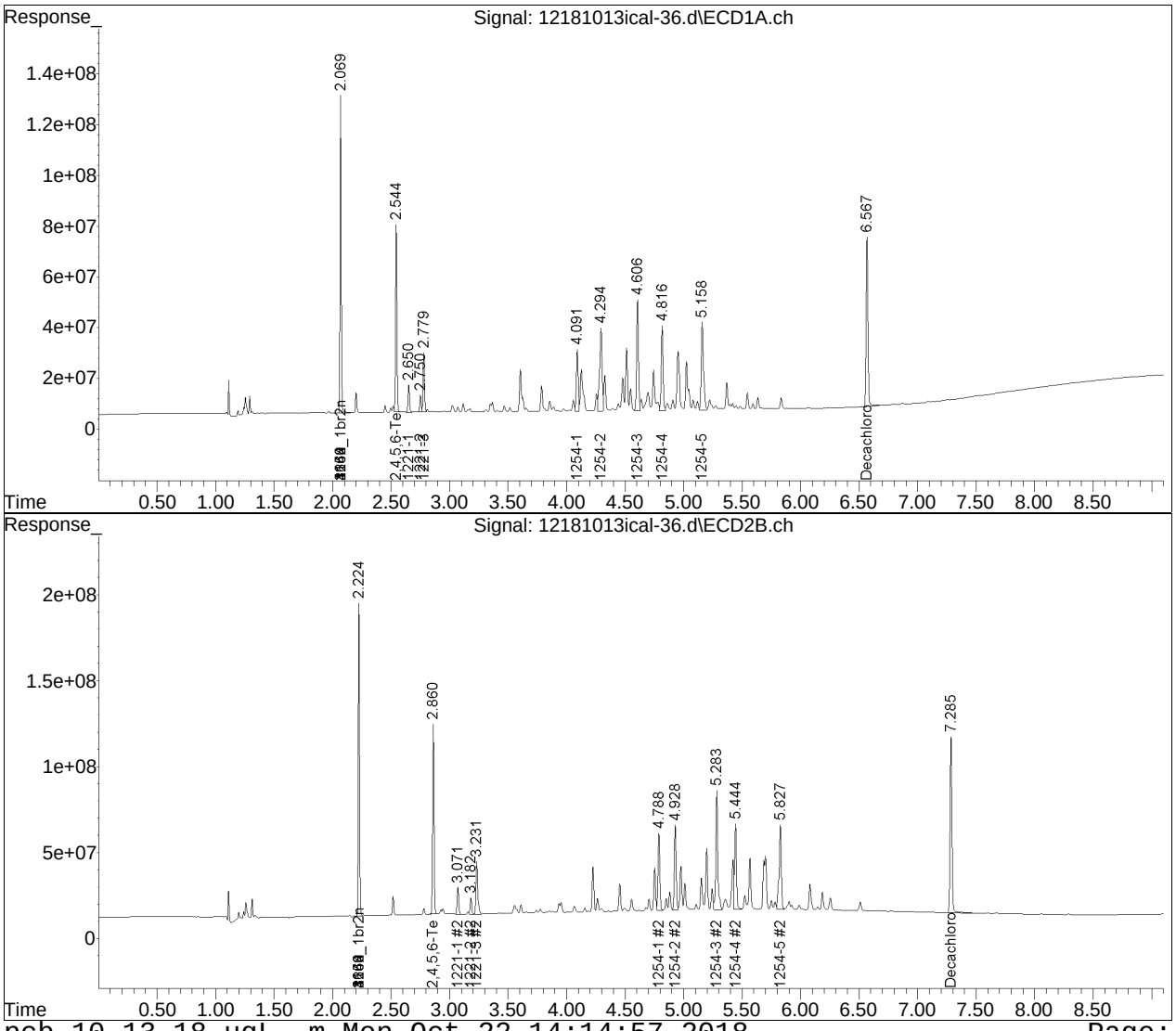
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-36.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 6:19 pm
Operator : Pest12:kb
Sample : cicv2154,42e,,8676
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 11:57:26 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 11:57:05 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

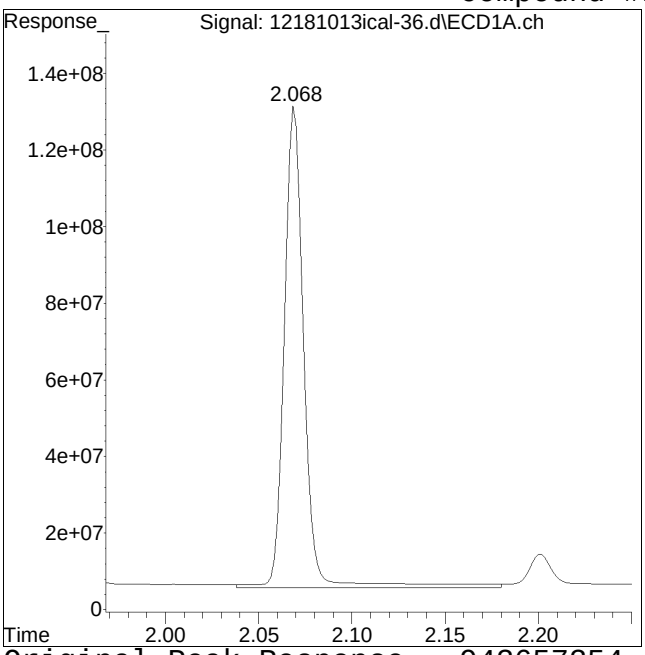


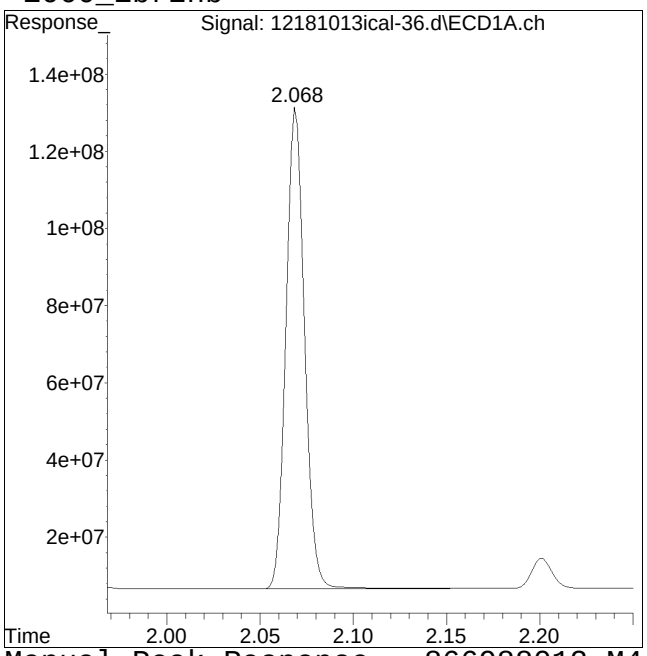
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-36.d
Date Inj'd : 10/13/2018 6:19 pm
Sample : cicv2154,42e,,8676

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:57 am

Compound #1: 1660_1br2nb





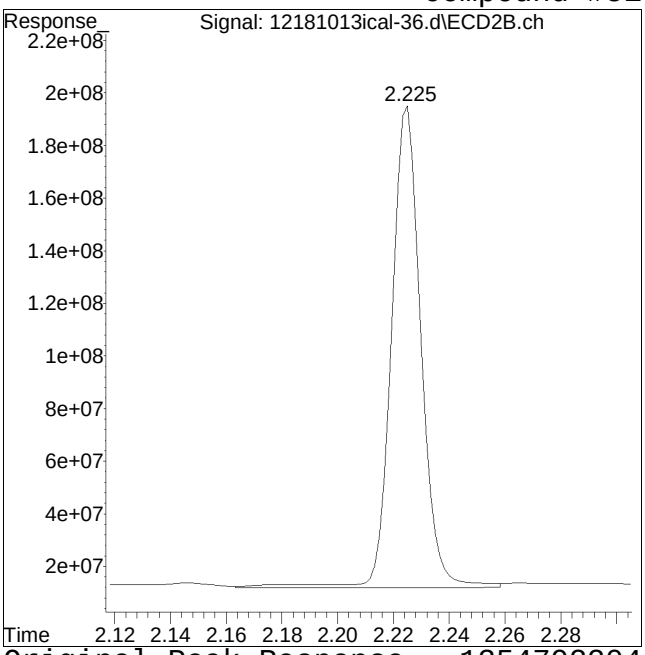
Original Peak Response = 943657354 Manual Peak Response = 866988012 M4
M4 = Poor automated baseline construction.

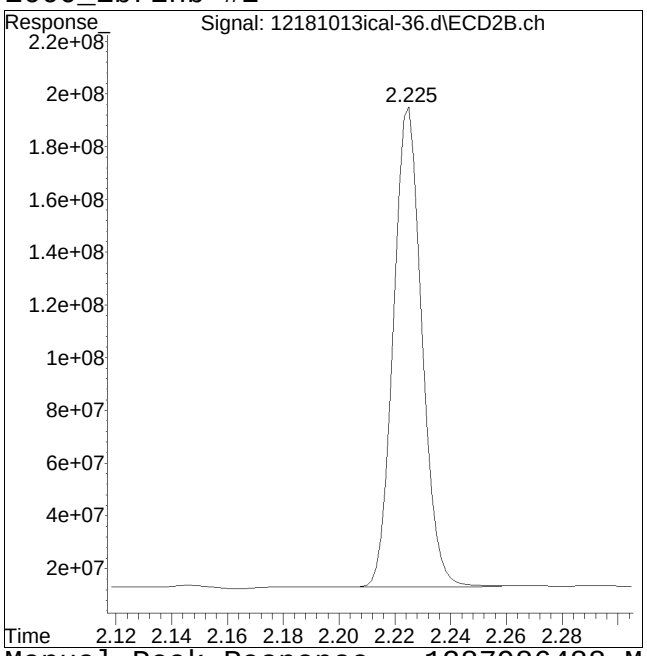
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-36.d
Date Inj'd : 10/13/2018 6:19 pm
Sample : cicv2154,42e,,8676

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:57 am

Compound #51: 1660_1br2nb #2





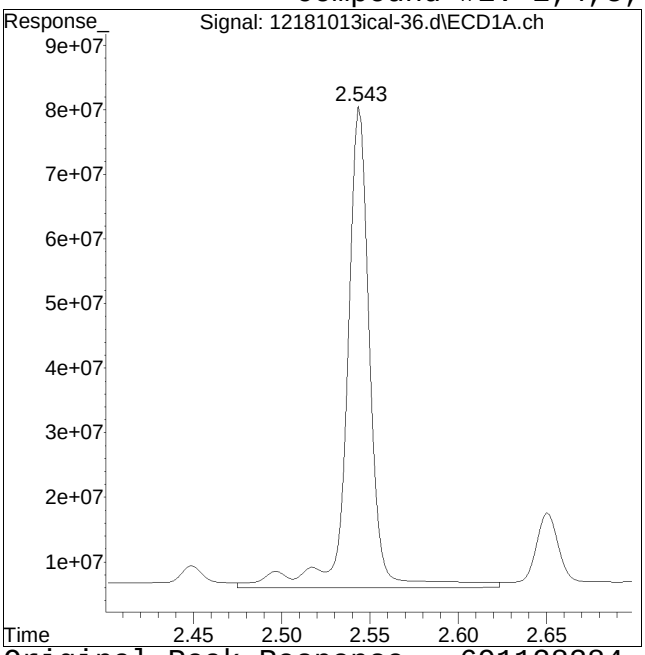
Original Peak Response = 1354792204 Manual Peak Response = 1287986488 M4
M4 = Poor automated baseline construction.

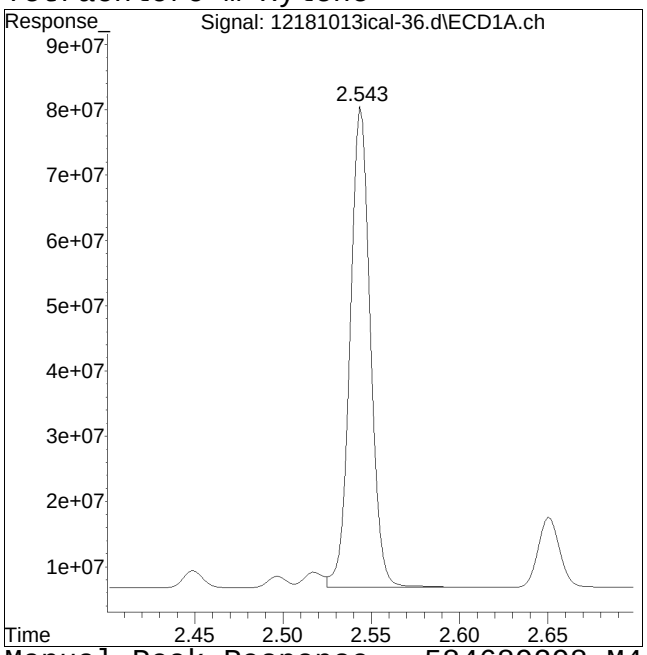
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-36.d
Date Inj'd : 10/13/2018 6:19 pm
Sample : cicv2154,42e,,8676

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:57 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene





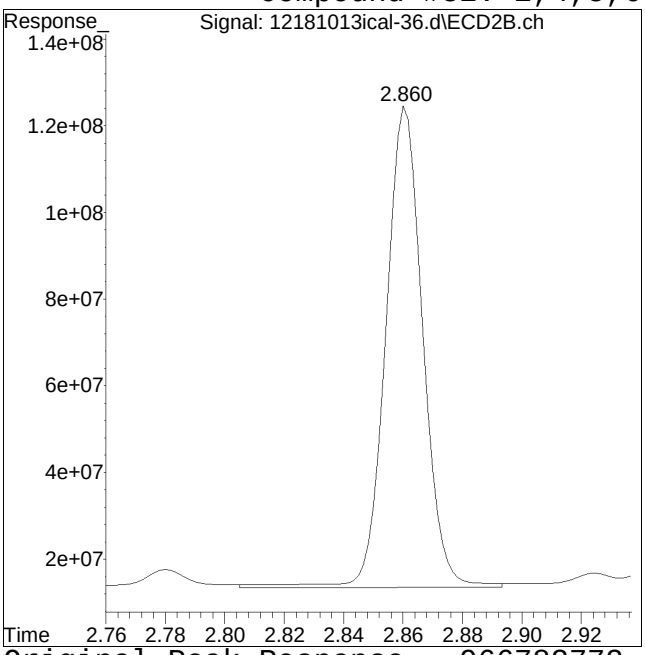
Original Peak Response = 691128384 Manual Peak Response = 584689298 M4
M4 = Poor automated baseline construction.

Manual Integration Report

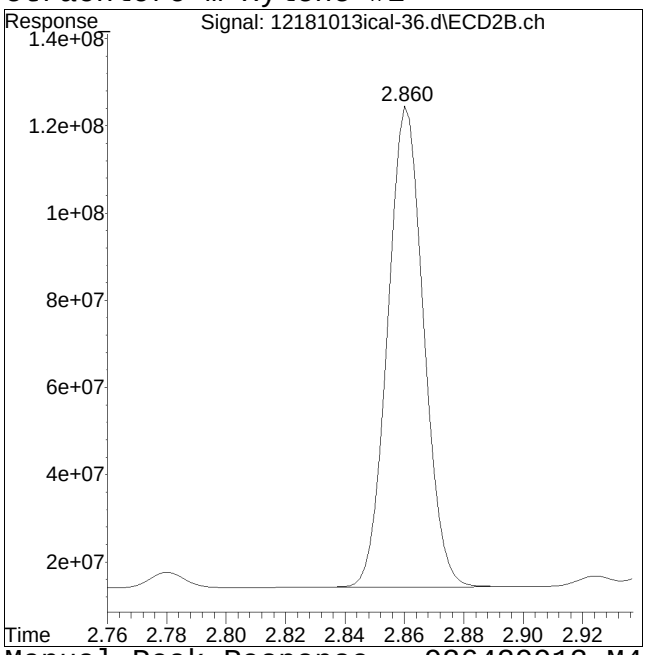
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-36.d
Date Inj'd : 10/13/2018 6:19 pm
Sample : cicv2154,42e,,8676

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:57 am

Compound #52: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 966782772



Manual Peak Response = 926429913 M4

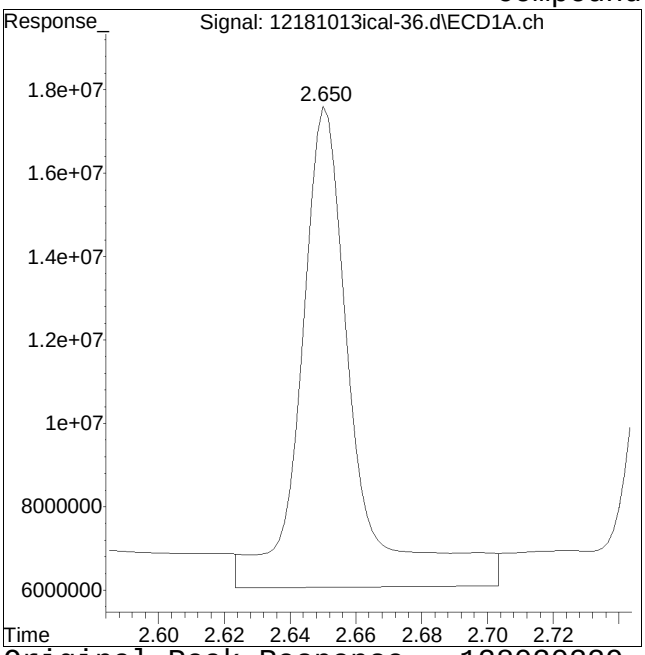
M4 = Poor automated baseline construction.

Manual Integration Report

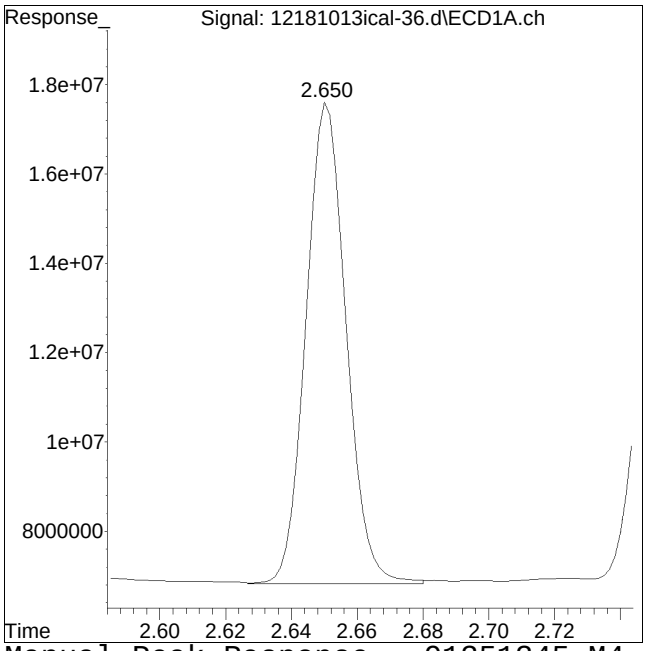
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-36.d
Date Inj'd : 10/13/2018 6:19 pm
Sample : cicv2154,42e,,8676

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:57 am

Compound #14: 1221-1



Original Peak Response = 128030329



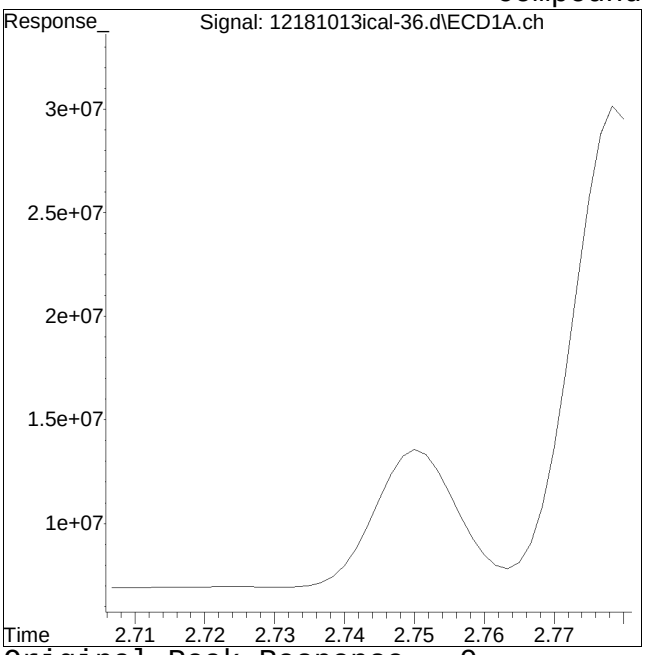
Manual Peak Response = 91351345 M4

M4 = Poor automated baseline construction.

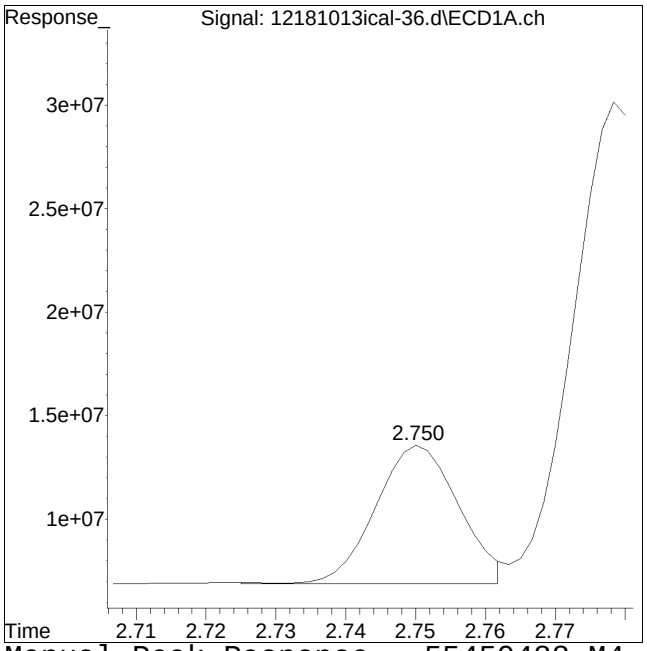
Manual Integration Report

Data Path	: I:\Pest12\181013ical\	QMethod	: P12_pcb_10-13-18_ugL_.m
Data File	: 12181013ical-36.d	Operator	: Pest12:kb
Date Inj'd	: 10/13/2018 6:19 pm	Instrument	: Pest 12
Sample	: cicv2154,42e,,8676	Quant Date	: 10/16/2018 11:57 am

Compound #15: 1221-2



Original Peak Response = 0



Manual Peak Response = 55450488 M4

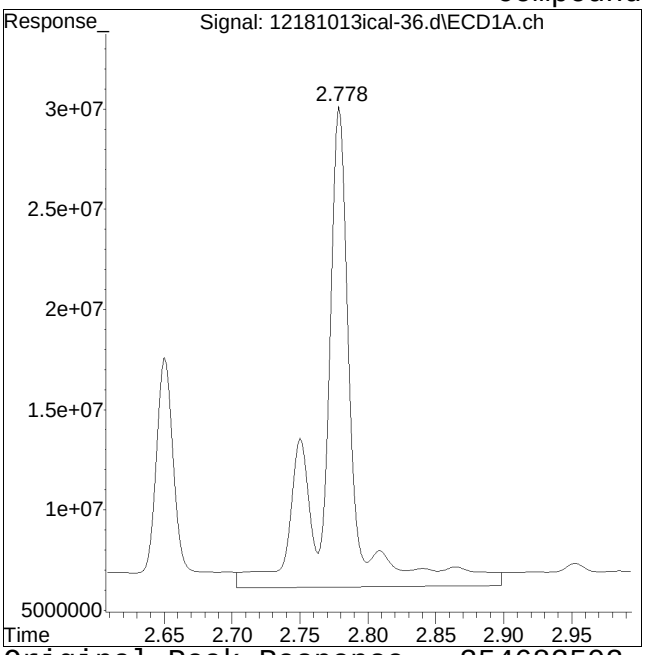
M4 = Poor automated baseline construction.

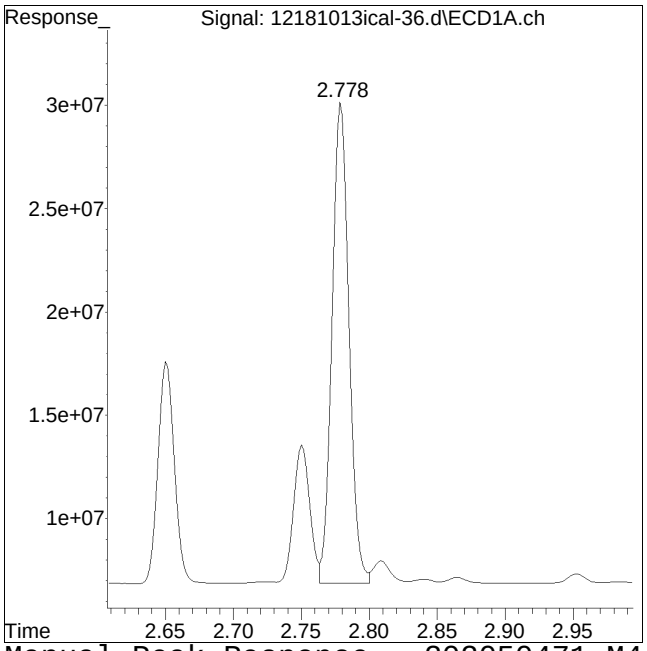
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-36.d
Date Inj'd : 10/13/2018 6:19 pm
Sample : cicv2154,42e,,8676

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:57 am

Compound #16: 1221-3





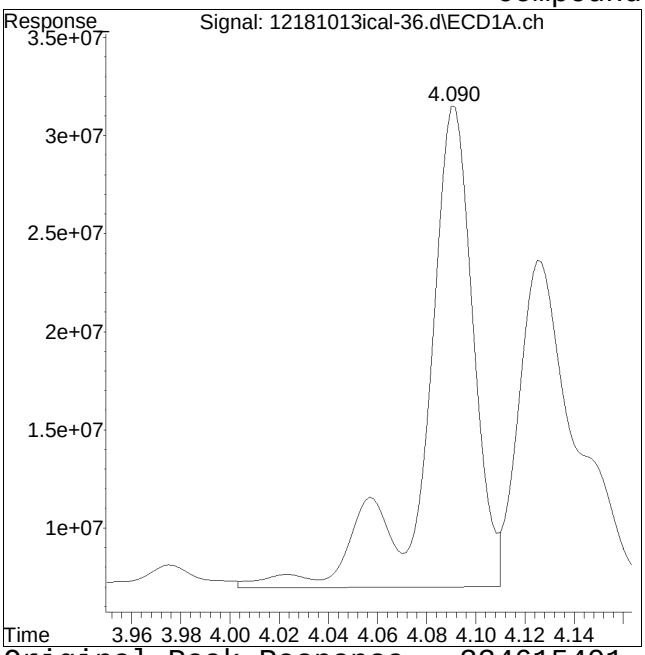
Original Peak Response = 354683502 Manual Peak Response = 202050471 M4
M4 = Poor automated baseline construction.

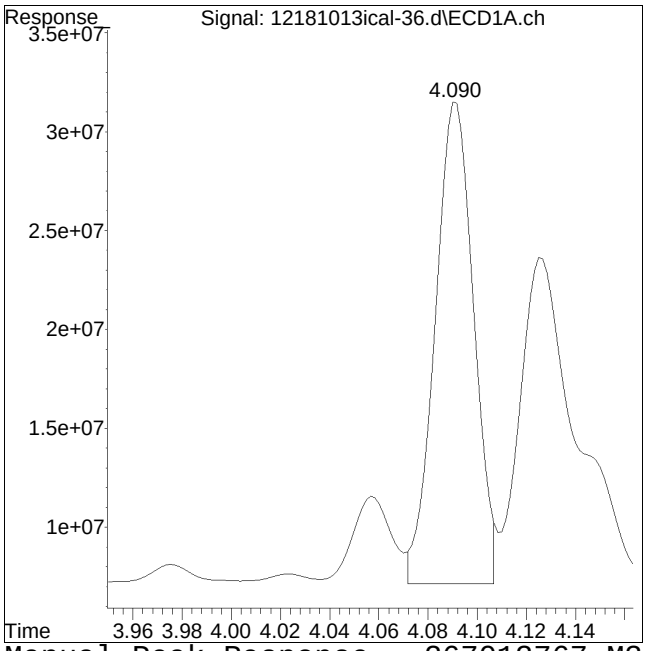
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-36.d
Date Inj'd : 10/13/2018 6:19 pm
Sample : cicv2154,42e,,8676

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:57 am

Compound #17: 1254-1





Original Peak Response = 334615401 Manual Peak Response = 267013767 M3

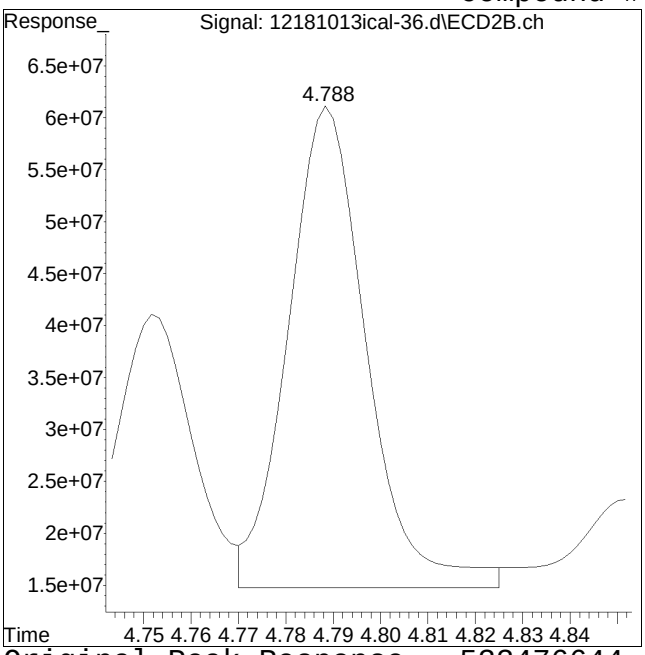
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

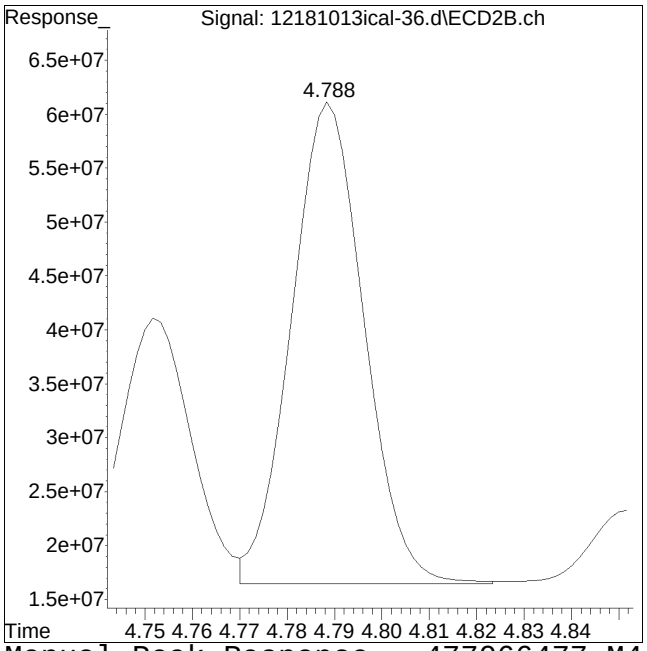
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-36.d
Date Inj'd : 10/13/2018 6:19 pm
Sample : cicv2154,42e,,8676

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:57 am

Compound #67: 1254-1 #2



Original Peak Response = 533476644



Manual Peak Response = 477066477 M4

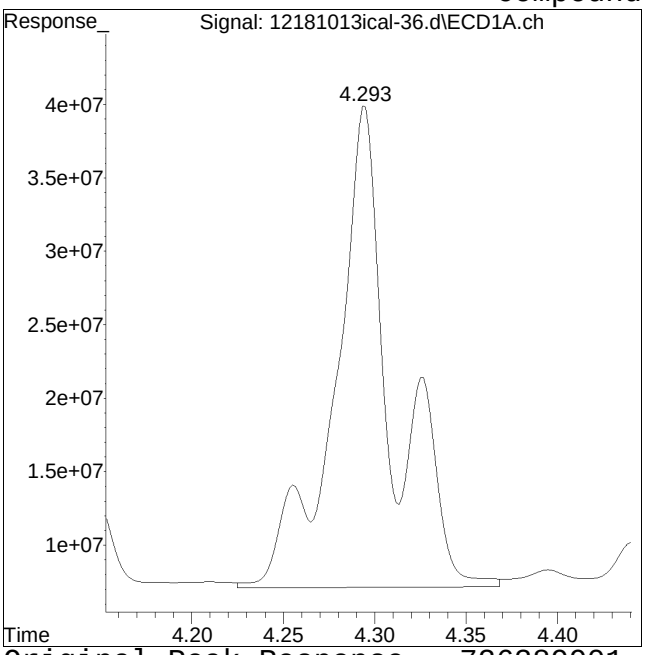
M4 = Poor automated baseline construction.

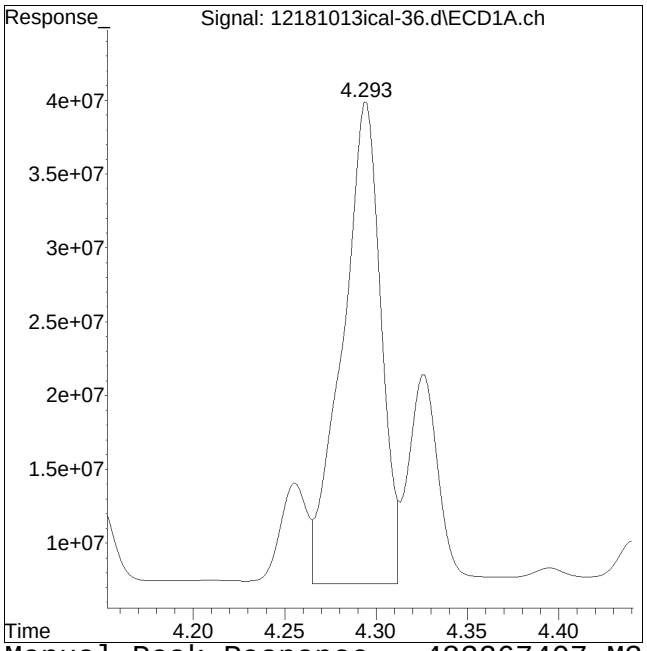
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-36.d
Date Inj'd : 10/13/2018 6:19 pm
Sample : cicv2154,42e,,8676

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:57 am

Compound #18: 1254-2





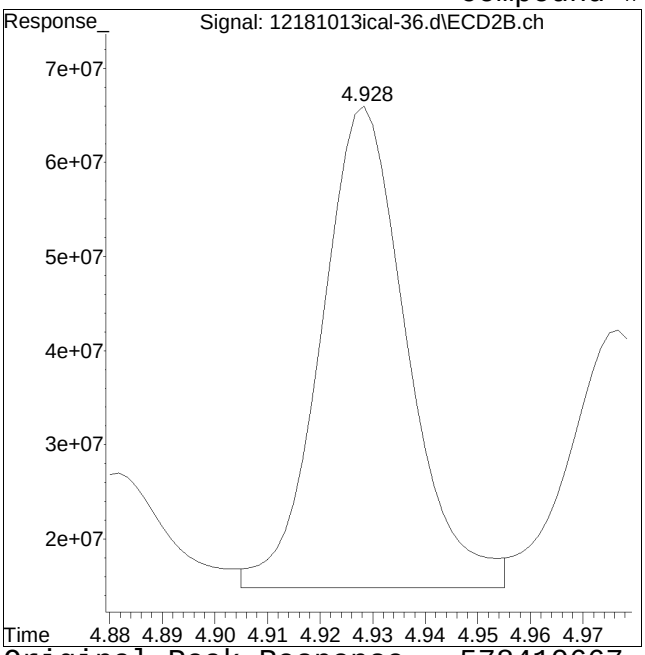
Original Peak Response = 726389901 Manual Peak Response = 483267407 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

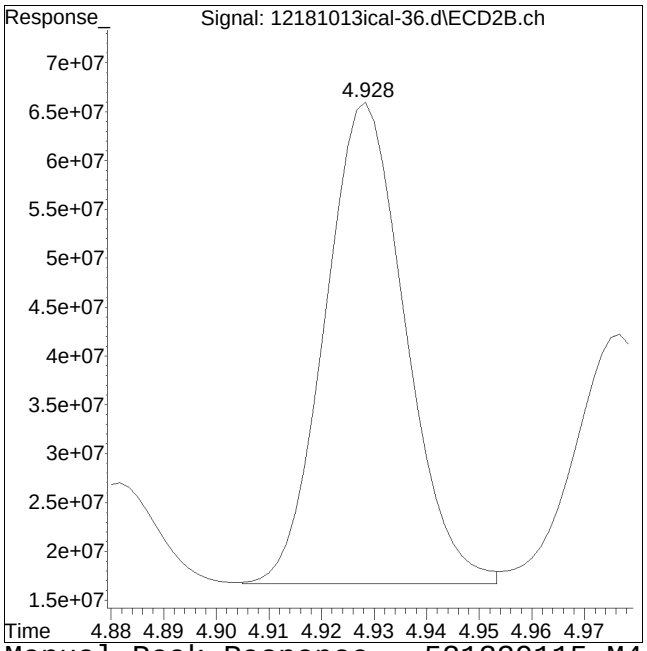
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-36.d
Date Inj'd : 10/13/2018 6:19 pm
Sample : cicv2154,42e,,8676

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:57 am

Compound #68: 1254-2 #2



Original Peak Response = 578410667



Manual Peak Response = 521339115 M4

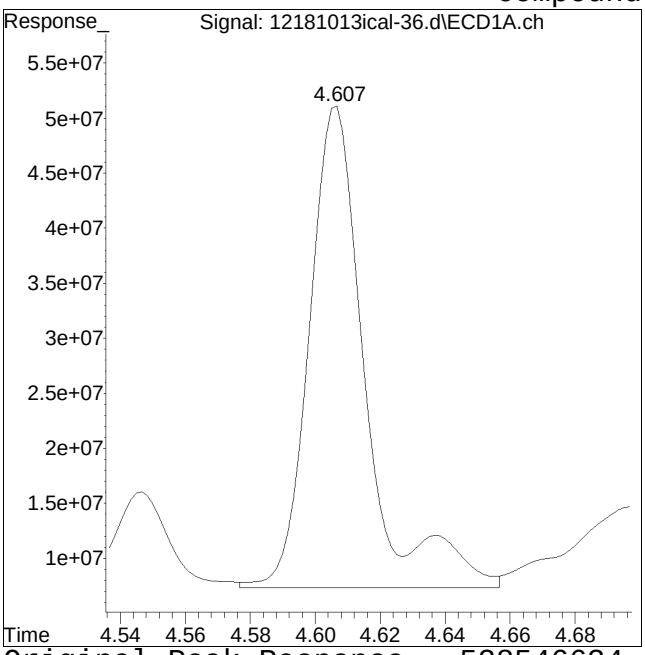
M4 = Poor automated baseline construction.

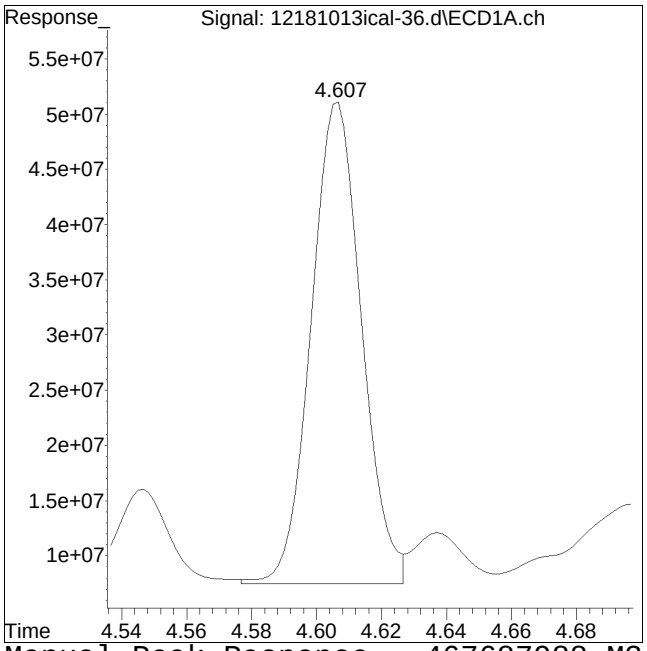
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-36.d
Date Inj'd : 10/13/2018 6:19 pm
Sample : cicv2154,42e,,8676

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:57 am

Compound #19: 1254-3





Original Peak Response = 528546634 Manual Peak Response = 467687988 M3

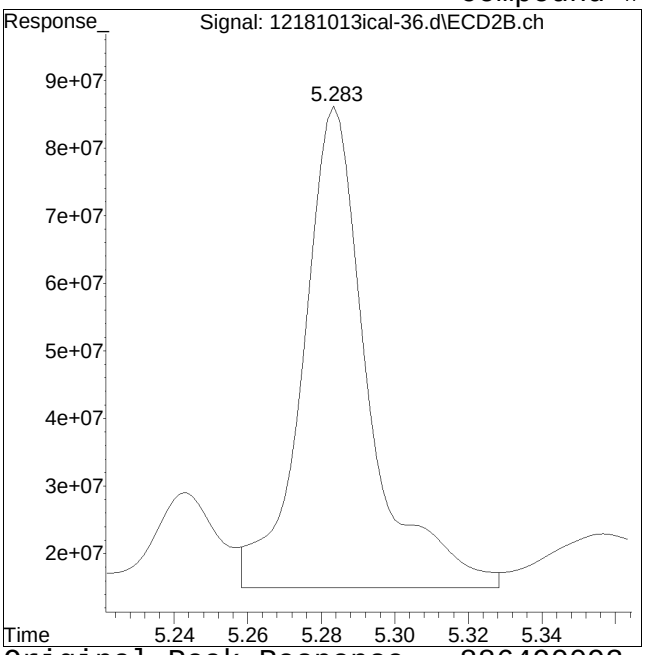
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

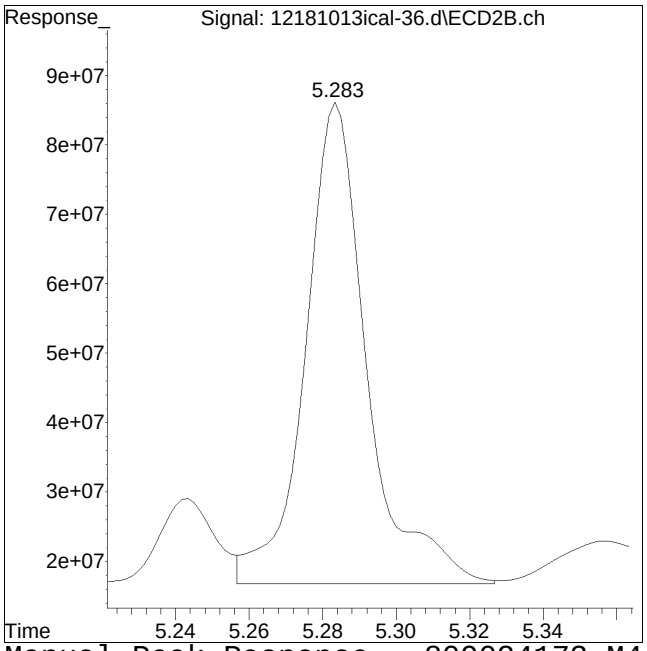
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-36.d
Date Inj'd : 10/13/2018 6:19 pm
Sample : cicv2154,42e,,8676

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:57 am

Compound #69: 1254-3 #2





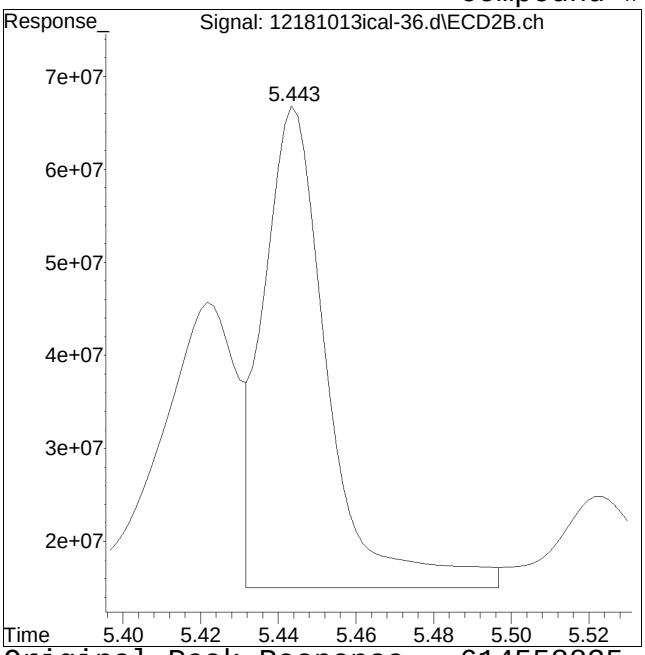
Original Peak Response = 886490093 Manual Peak Response = 809024173 M4
M4 = Poor automated baseline construction.

Manual Integration Report

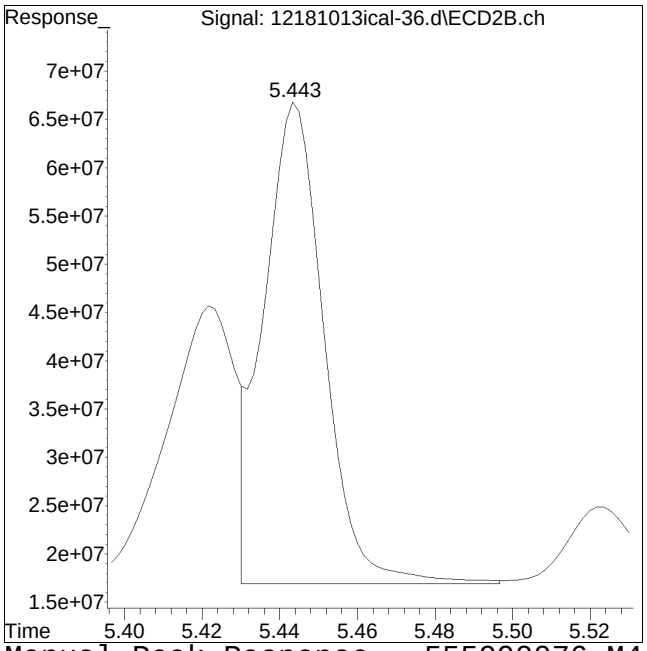
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-36.d
Date Inj'd : 10/13/2018 6:19 pm
Sample : cicv2154,42e,,8676

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:57 am

Compound #70: 1254-4 #2



Original Peak Response = 614558835



Manual Peak Response = 555990076 M4

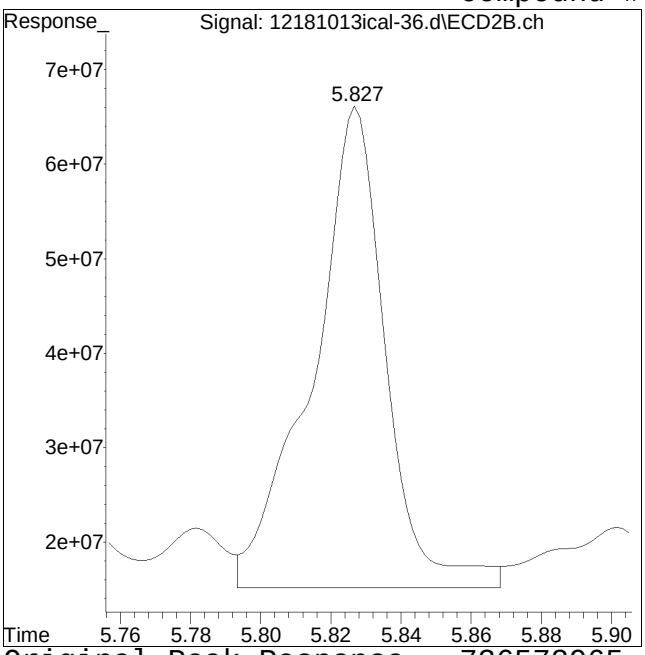
M4 = Poor automated baseline construction.

Manual Integration Report

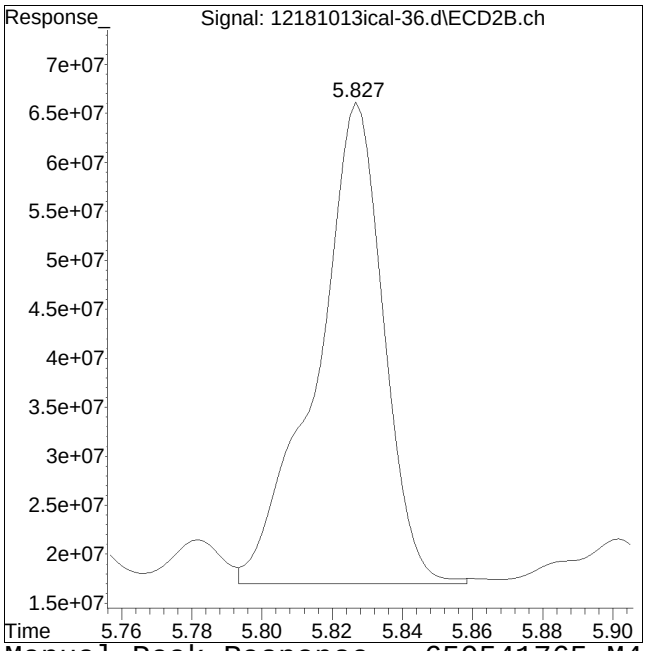
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-36.d
Date Inj'd : 10/13/2018 6:19 pm
Sample : cicv2154,42e,,8676

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:57 am

Compound #71: 1254-5 #2



Original Peak Response = 736572965



Manual Peak Response = 650541765 M4

M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-37.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 13 Oct 2018   6:32 pm
Operator : Pest12:kb
Sample   : cicv1660,42e,,8847
Misc   : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 36   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 11:45:12 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 11:24:38 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	250.000	250.000	0.0	100	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen	160.000	161.192	-0.7	104	0.00
3	s	Decachlorobiphenyl	320.000	325.905	-1.8	104	0.00
4	l1	1016-1	2500.000	2401.718	3.9	99	0.00
5	l1	1016-2	2500.000	2522.092	-0.9	104	0.00
6	l1	1016-3	2500.000	2571.316	-2.9	106	0.00
7	l1	1016-4	2500.000	2766.467	-10.7	111	0.00
8	l1	1016-5	2500.000	2581.295	-3.3	106	0.00
9	l2	1260-2	2500.000	2577.774	-3.1	106	0.00
10	l2	1260-3	2500.000	2253.082	9.9	93	0.00
11	l2	1260-4	2500.000	2259.783	9.6	91	0.00
12	l2	1260-5	2500.000	2320.059	7.2	95	0.00
13	i	2154_1br2nb	250.000	250.000	0.0	99	0.00
22	i	4268_1br2nb	250.000	250.000	0.0	102	0.00
33	i	1248_1br2nb	250.000	250.000	0.0	94	0.00
39	i	3262_1br2nb	250.000	250.000	0.0	97	0.00

Signal #2

1	i	1660_1br2nb	250.000	250.000	0.0	99	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl	160.000	159.500	0.3	102	0.00
3	s	Decachlorobiphenyl	320.000	325.163	-1.6	104	0.00
4	l1	1016-1	2500.000	2577.643	-3.1	102	0.00
5	l1	1016-2	2500.000	2508.689	-0.3	102	0.00
6	l1	1016-3	2500.000	2435.519	2.6	101	0.00
7	l1	1016-4	2500.000	2496.125	0.2	101	0.00

Evaluate Continuing Calibration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-37.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 13 Oct 2018   6:32 pm
Operator : Pest12:kb
Sample   : cicv1660,42e,,8847
Misc   : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 36   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 11:45:12 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 11:24:38 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
8	l1	1016-5	2500.000	2685.083	-7.4	105	0.00
9	l2	1260-2	2500.000	2530.368	-1.2	101	0.00
10	l2	1260-3	2500.000	2351.730	5.9	94	0.00
11	l2	1260-4	2500.000	2207.518	11.7	90	0.00
12	l2	1260-5	2500.000	2260.291	9.6	93	0.00
13	i	2154_1br2nb	250.000	250.000	0.0	97	0.00
22	i	4268_1br2nb	250.000	250.000	0.0	103	0.00
33	i	1248_1br2nb	250.000	250.000	0.0	93	0.00
39	i	3262_1br2nb	250.000	250.000	0.0	97	0.00

Evaluate Continuing Calibration Report - Not Founds

14	l3	1221-1	2500.000	0.000	100.0#	0	-2.65#
15	l3	1221-2	2500.000	0.000	100.0#	0	-2.75#
16	l3	1221-3	2500.000	0.000	100.0#	0	-2.78#
17	l4	1254-1	2500.000	0.000	100.0#	0	-4.09#
18	l4	1254-2	2500.000	0.000	100.0#	0	-4.29#
19	l4	1254-3	2500.000	0.000	100.0#	0	-4.61#
20	l4	1254-4	2500.000	0.000	100.0#	0	-4.82#
21	l4	1254-5	2500.000	0.000	100.0#	0	-5.16#
23	l6	1242-1	2500.000	0.000	100.0#	0	-2.78#
24	l6	1242-2	2500.000	0.000	100.0#	0	-3.02#
25	l6	1242-3	2500.000	0.000	100.0#	0	-3.37#
26	l6	1242-4	2500.000	0.000	100.0#	0	-3.79#
27	l6	1242-5	2500.000	0.000	100.0#	0	-4.13#
28	l9	1268-1	2500.000	0.000	100.0#	0	-5.86#
29	l9	1268-2	2500.000	0.000	100.0#	0	-5.88#

Evaluate Continuing Calibration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-37.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 13 Oct 2018   6:32 pm
Operator : Pest12:kb
Sample   : cicv1660,42e,,8847
Misc   : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 36   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 11:45:12 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 11:24:38 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
30	l9	1268-3	2500.000	0.000	100.0#	0	-6.02#
31	l9	1268-4	2500.000	0.000	100.0#	0	-6.25#
32	l9	1268-5	2500.000	0.000	100.0#	0	-6.44#
34	l7	1248-1	2500.000	0.000	100.0#	0	-3.35#
35	l7	1248-2	2500.000	0.000	100.0#	0	-3.61#
36	l7	1248-3	2500.000	0.000	100.0#	0	-3.79#
37	l7	1248-4	2500.000	0.000	100.0#	0	-4.13#
38	l7	1248-5	2500.000	0.000	100.0#	0	-4.15#
40	l5	1232-1	2500.000	0.000	100.0#	0	-2.78#
41	l5	1232-2	2500.000	0.000	100.0#	0	-3.02#
42	l5	1232-3	2500.000	0.000	100.0#	0	-3.37#
43	l5	1232-4	2500.000	0.000	100.0#	0	-3.47#
44	l5	1232-5	2500.000	0.000	100.0#	0	-4.13#
45	l8	1262-1	2500.000	0.000	100.0#	0	-4.95#
46	l8	1262-2	2500.000	0.000	100.0#	0	-5.24#
47	l8	1262-3	2500.000	0.000	100.0#	0	-5.42#
48	l8	1262-4	2500.000	0.000	100.0#	0	-5.63#
49	l8	1262-5	2500.000	0.000	100.0#	0	-5.85#
Signal #2							
14	l3	1221-1	2500.000	0.000	100.0#	0	-3.07#
15	l3	1221-2	2500.000	0.000	100.0#	0	-3.18#
16	l3	1221-3	2500.000	0.000	100.0#	0	-3.23#
17	l4	1254-1	2500.000	0.000	100.0#	0	-4.79#
18	l4	1254-2	2500.000	0.000	100.0#	0	-4.93#
19	l4	1254-3	2500.000	0.000	100.0#	0	-5.28#
20	l4	1254-4	2500.000	0.000	100.0#	0	-5.44#
21	l4	1254-5	2500.000	0.000	100.0#	0	-5.82#
23	l6	1242-1	2500.000	0.000	100.0#	0	-3.23#
24	l6	1242-2	2500.000	0.000	100.0#	0	-3.56#

Evaluate Continuing Calibration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-37.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 13 Oct 2018   6:32 pm
Operator : Pest12:kb
Sample   : cicv1660,42e,,8847
Misc   : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 36   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 11:45:12 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 11:24:38 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
25 l6	1242-3	2500.000	0.000	100.0#	0	-3.95#
26 l6	1242-4	2500.000	0.000	100.0#	0	-4.45#
27 l6	1242-5	2500.000	0.000	100.0#	0	-4.75#
28 l9	1268-1	2500.000	0.000	100.0#	0	-6.49#
29 l9	1268-2	2500.000	0.000	100.0#	0	-6.53#
30 l9	1268-3	2500.000	0.000	100.0#	0	-6.70#
31 l9	1268-4	2500.000	0.000	100.0#	0	-6.88#
32 l9	1268-5	2500.000	0.000	100.0#	0	-7.10#
34 l7	1248-1	2500.000	0.000	100.0#	0	-3.93#
35 l7	1248-2	2500.000	0.000	100.0#	0	-4.22#
36 l7	1248-3	2500.000	0.000	100.0#	0	-4.45#
37 l7	1248-4	2500.000	0.000	100.0#	0	-4.75#
38 l7	1248-5	2500.000	0.000	100.0#	0	-4.79#
40 l5	1232-1	2500.000	0.000	100.0#	0	-3.23#
41 l5	1232-2	2500.000	0.000	100.0#	0	-3.56#
42 l5	1232-3	2500.000	0.000	100.0#	0	-3.95#
43 l5	1232-4	2500.000	0.000	100.0#	0	-4.07#
44 l5	1232-5	2500.000	0.000	100.0#	0	-4.75#
45 l8	1262-1	2500.000	0.000	100.0#	0	-5.56#
46 l8	1262-2	2500.000	0.000	100.0#	0	-5.88#
47 l8	1262-3	2500.000	0.000	100.0#	0	-6.09#
48 l8	1262-4	2500.000	0.000	100.0#	0	-6.25#
49 l8	1262-5	2500.000	0.000	100.0#	0	-6.50#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-37.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 6:32 pm
Operator : Pest12:kb
Sample : cicv1660,42e,,8847
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 11:45:12 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 11:24:38 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	2.069	2.224	756.1E6	1135.4E6	250.000M4	250.000M4
13) i	2154_1br2nb	2.069	2.224	756.1E6	1135.4E6	250.000M4	250.000M4
22) i	4268_1br2nb	2.069	2.224	756.1E6	1135.4E6	250.000M4	250.000M4
33) i	1248_1br2nb	2.069	2.224	756.1E6	1135.4E6	250.000M4	250.000M4
39) i	3262_1br2nb	2.069	2.224	756.1E6	1135.4E6	250.000M4	250.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.544	2.860	510.1E6	814.4E6	161.192M4	159.500M4
	Spiked Amount 500.000	Range 30 - 150		Recovery =		32.24%	31.90%
3) s	Decachlorobi	6.568	7.283	616.1E6	982.3E6	325.905	325.163
	Spiked Amount 500.000	Range 30 - 150		Recovery =		65.18%	65.03%
	Target Compounds						
4) l1	1016-1	2.779	3.232	133.1E6	225.7E6	2401.718M4	2577.643
5) l1	1016-2	3.022	3.559	303.1E6	495.4E6	2522.092M4	2508.689
6) l1	1016-3	3.364	3.952	620.2E6	1001.3E6	2571.316	2435.519M1
7) l1	1016-4	3.467	4.067	277.7E6	381.3E6	2766.467	2496.125
8) l1	1016-5	3.787	4.454	274.5E6	310.2E6	2581.295	2685.083
	Sum 1016-1			1608.7E6	2413.9E6	12842.887	12703.060
	Average 1016-1					2568.577	2540.612
9) l2	1260-2	4.951	5.566	544.6E6	642.9E6	2577.774M3	2530.368M4
10) l2	1260-3	5.417	6.093	291.8E6	438.0E6	2253.082M3	2351.730M4
11) l2	1260-4	5.635	6.254	658.5E6	911.9E6	2259.783	2207.518M4

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-37.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 6:32 pm
Operator : Pest12:kb
Sample : cicv1660,42e,,8847
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 11:45:12 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 11:24:38 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12) l2	1260-5	5.834	6.508	446.8E6	623.1E6	2320.059	2260.291M4
Sum	1260-2			1941.7E6	2616.0E6	9410.697	9349.906
Average	1260-2					2352.674	2337.477
14) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
17) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
18) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
23) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
24) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
28) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
29) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-37.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 6:32 pm
Operator : Pest12:kb
Sample : cicv1660,42e,,8847
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 11:45:12 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 11:24:38 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
34) l7 1248-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l7 1248-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l7 1248-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l7 1248-4	0.000	0.000	0	0	N.D. d	N.D. d
38) l7 1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
40) l5 1232-1	0.000	0.000	0	0	N.D. d	N.D. d
41) l5 1232-2	0.000	0.000	0	0	N.D. d	N.D. d
42) l5 1232-3	0.000	0.000	0	0	N.D. d	N.D. d
43) l5 1232-4	0.000	0.000	0	0	N.D. d	N.D. d
44) l5 1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
45) l8 1262-1	0.000	0.000	0	0	N.D. d	N.D. d
46) l8 1262-2	0.000	0.000	0	0	N.D. d	N.D. d
47) l8 1262-3	0.000	0.000	0	0	N.D. d	N.D. d
48) l8 1262-4	0.000	0.000	0	0	N.D. d	N.D. d
49) l8 1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-37.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 6:32 pm
Operator : Pest12:kb
Sample : cicv1660,42e,,8847
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 11:45:12 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 11:24:38 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

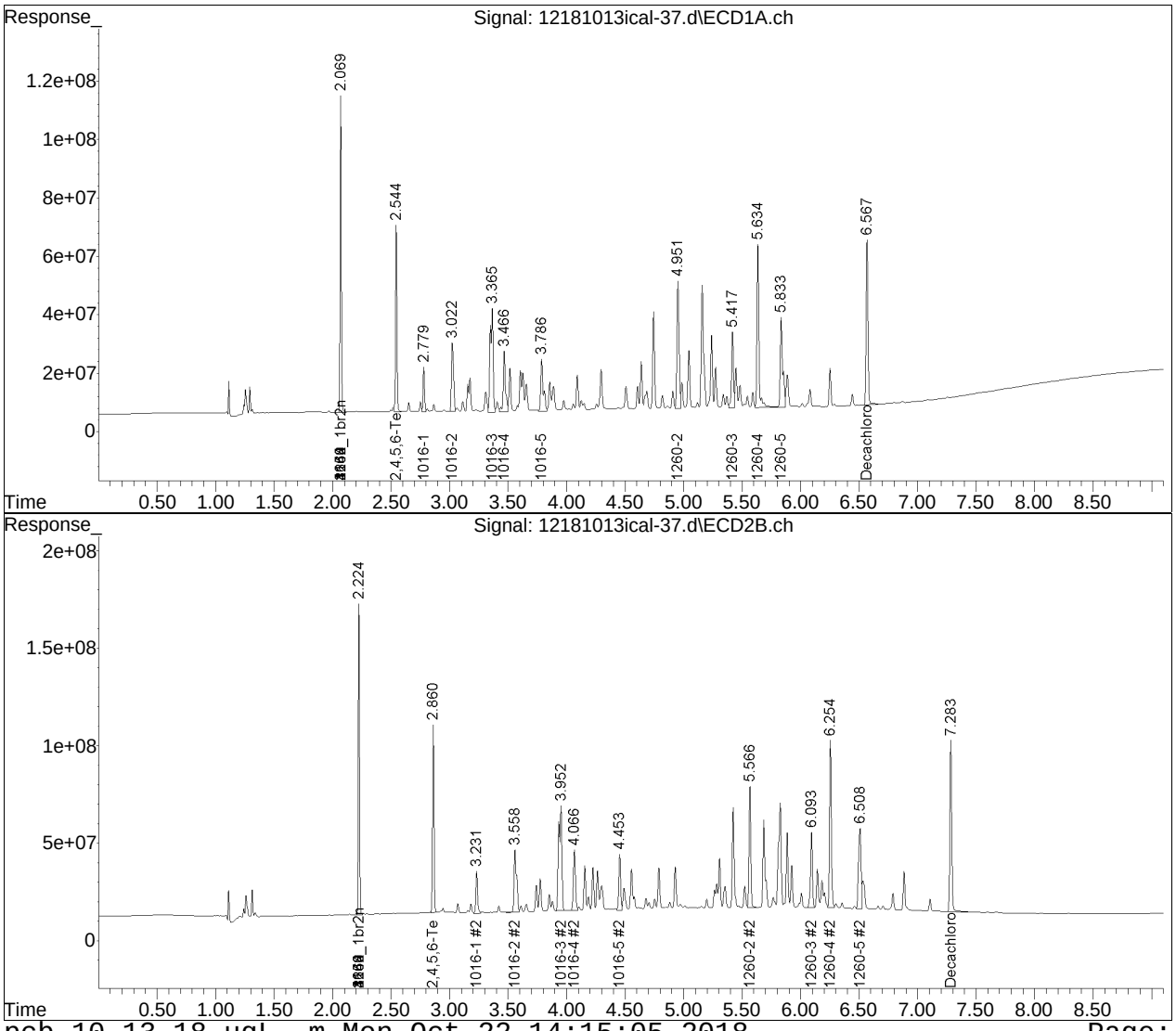
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-37.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Oct 2018 6:32 pm
Operator : Pest12:kb
Sample : cicv1660,42e,,8847
Misc : WG1170894, (Sig #1); (Sig #2)
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Oct 16 11:45:12 2018
Quant Method : I:\Pest12\181013ical\P12_pcb_10-13-18_ugL_.m
Quant Title : pcb
QLast Update : Tue Oct 16 11:24:38 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

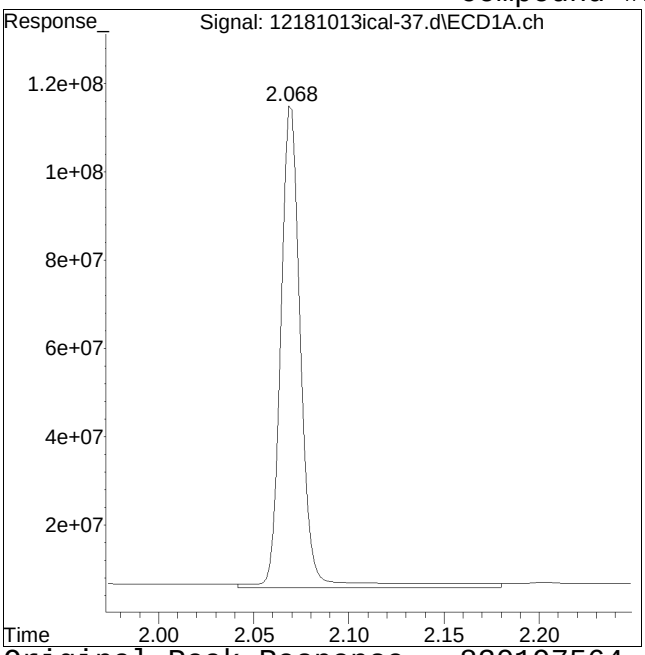


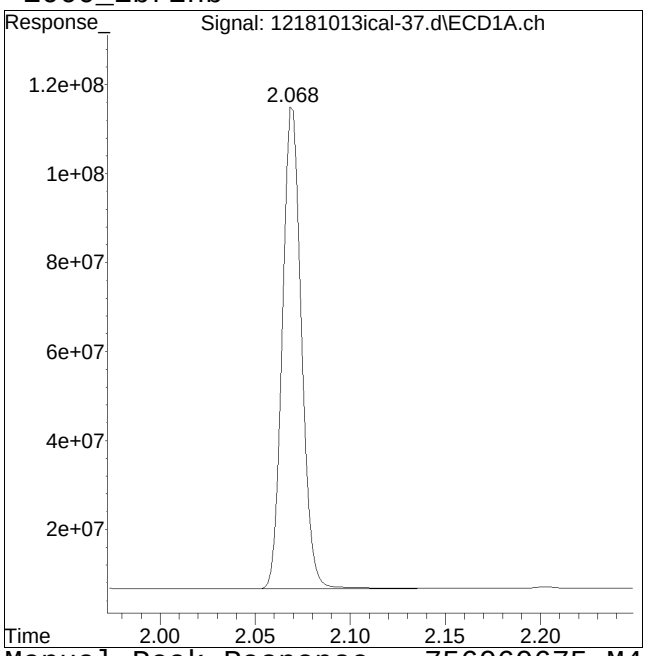
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-37.d
Date Inj'd : 10/13/2018 6:32 pm
Sample : cicv1660,42e,,8847

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:42 am

Compound #1: 1660_1br2nb





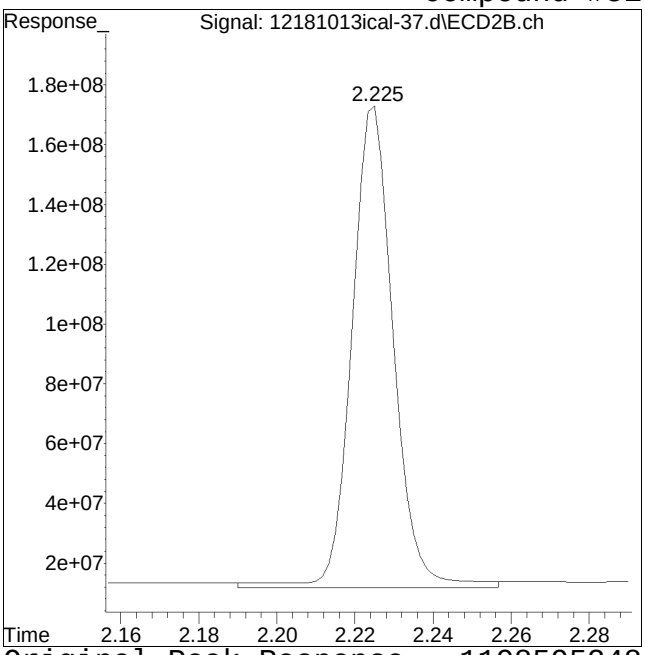
Original Peak Response = 830197564 Manual Peak Response = 756060675 M4
M4 = Poor automated baseline construction.

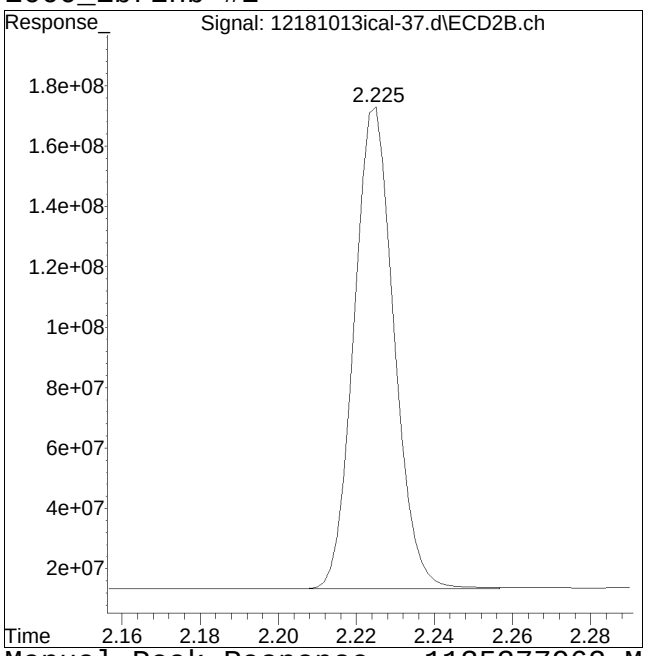
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-37.d
Date Inj'd : 10/13/2018 6:32 pm
Sample : cicv1660,42e,,8847

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:42 am

Compound #51: 1660_1br2nb #2





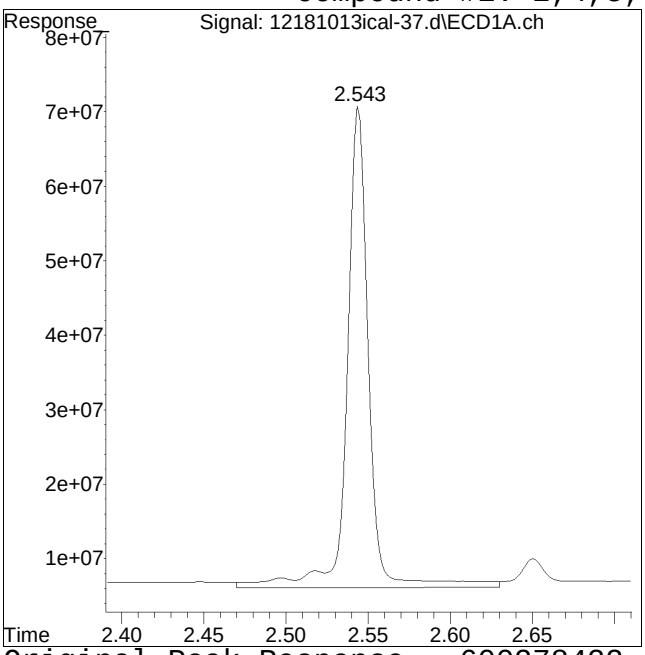
Original Peak Response = 1198595248 Manual Peak Response = 1135377962 M4
M4 = Poor automated baseline construction.

Manual Integration Report

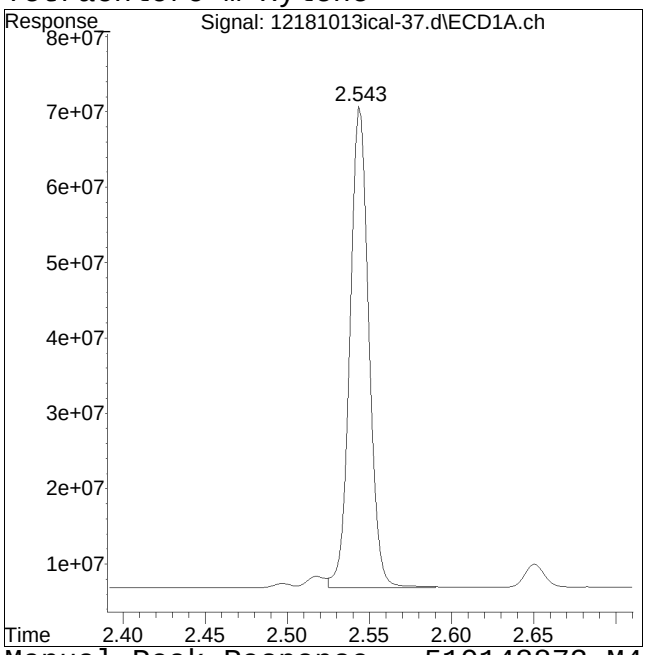
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-37.d
Date Inj'd : 10/13/2018 6:32 pm
Sample : cicv1660,42e,,8847

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:42 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



Original Peak Response = 600278422



Manual Peak Response = 510148873 M4

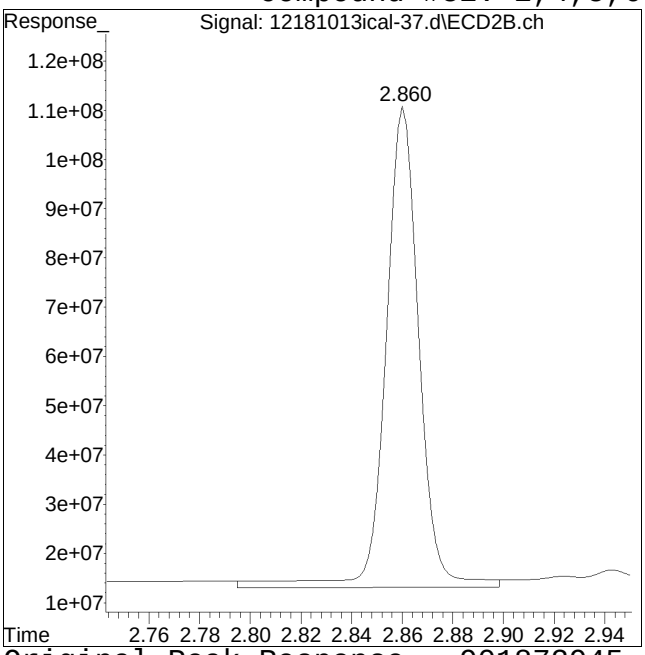
M4 = Poor automated baseline construction.

Manual Integration Report

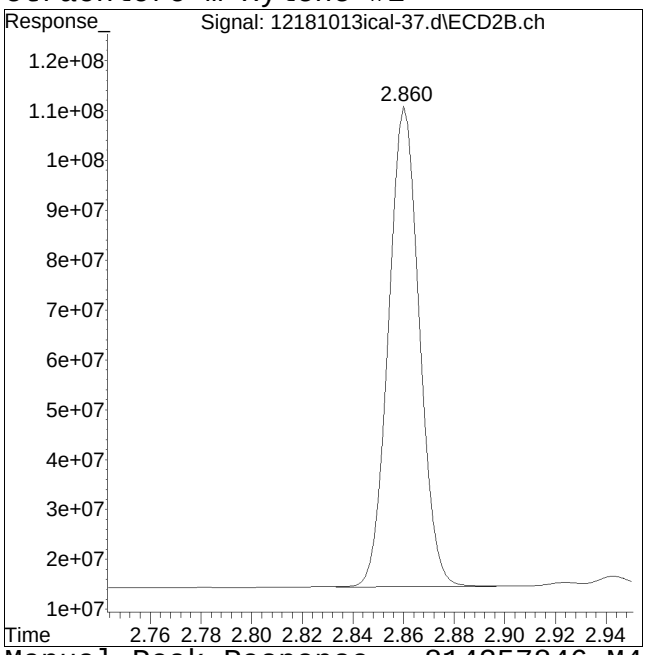
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-37.d
Date Inj'd : 10/13/2018 6:32 pm
Sample : cicv1660,42e,,8847

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:42 am

Compound #52: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 901872945



Manual Peak Response = 814357846 M4

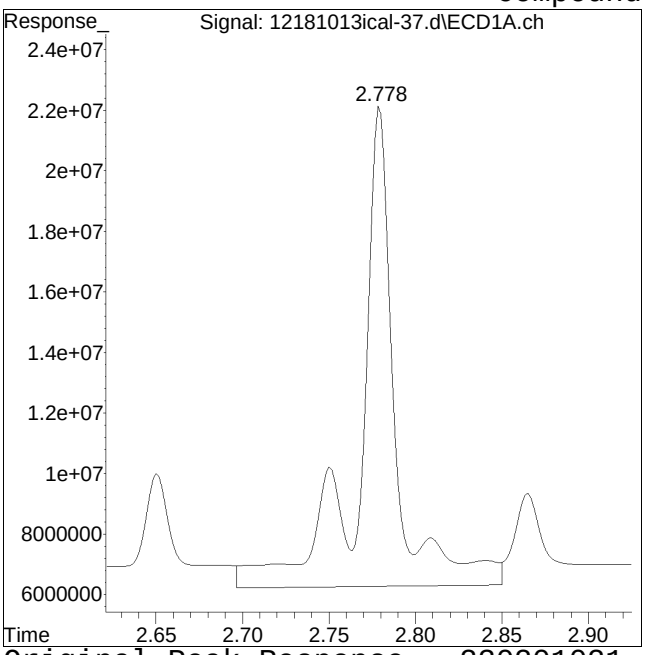
M4 = Poor automated baseline construction.

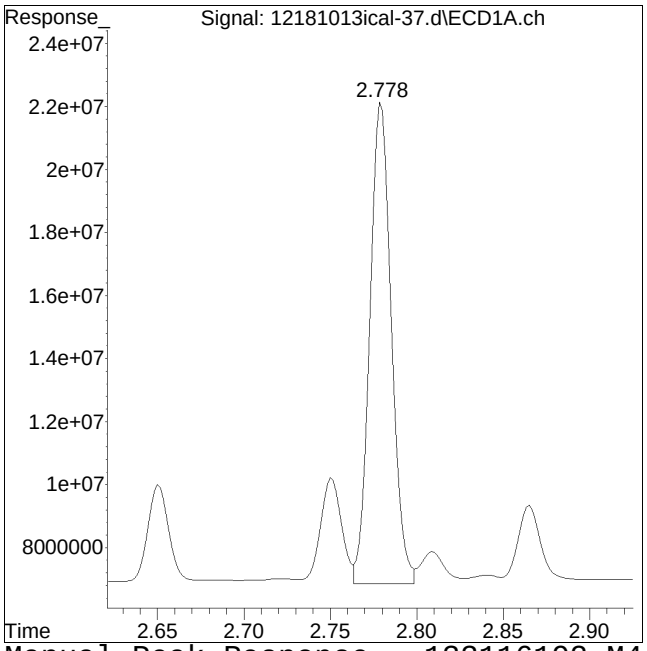
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-37.d
Date Inj'd : 10/13/2018 6:32 pm
Sample : cicv1660,42e,,8847

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:42 am

Compound #4: 1016-1





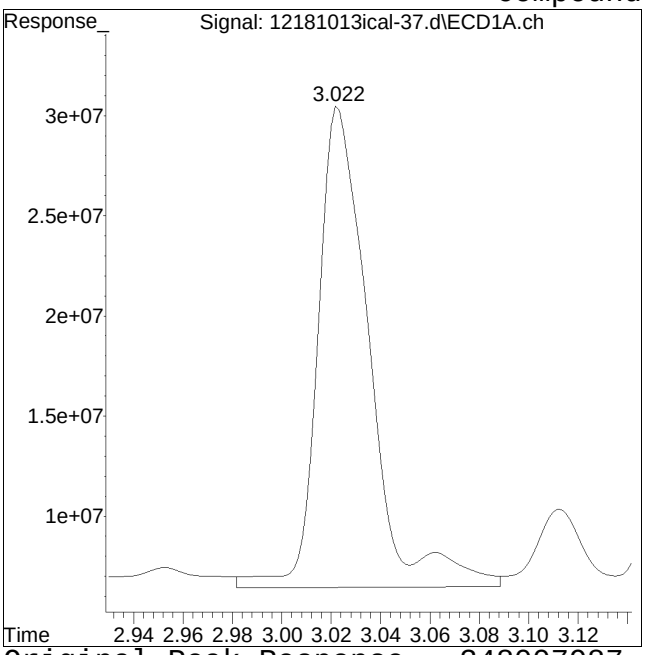
Original Peak Response = 230201021 Manual Peak Response = 133116192 M4
M4 = Poor automated baseline construction.

Manual Integration Report

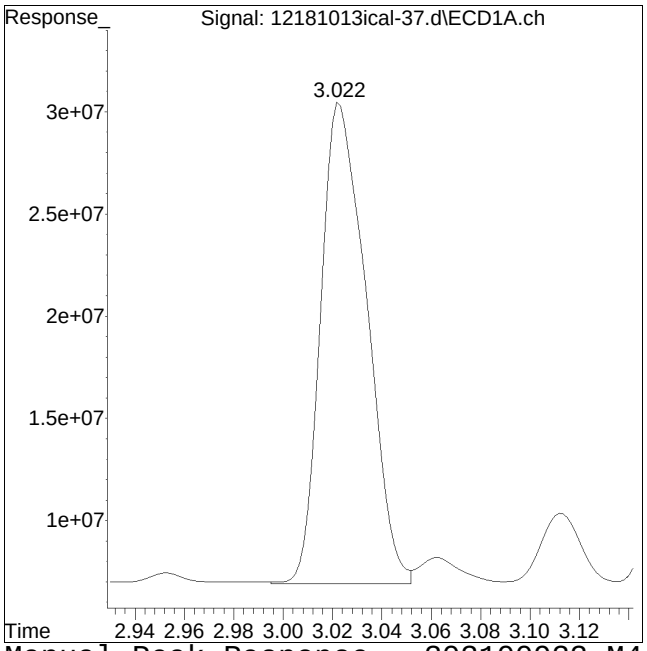
Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-37.d
Date Inj'd : 10/13/2018 6:32 pm
Sample : cicv1660,42e,,8847

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:42 am

Compound #5: 1016-2



Original Peak Response = 348007987



Manual Peak Response = 303100933 M4

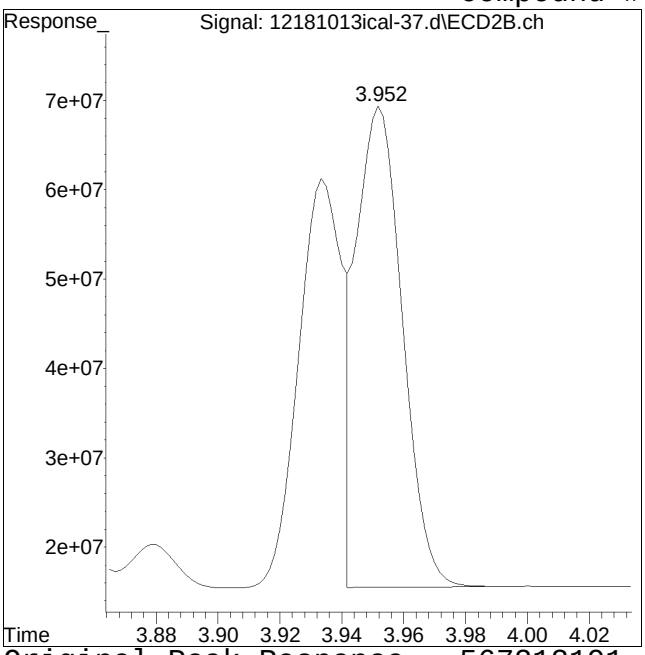
M4 = Poor automated baseline construction.

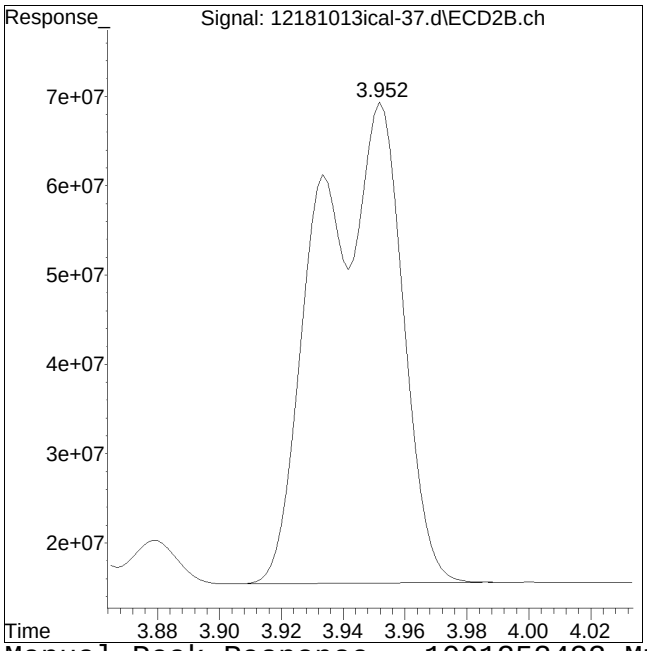
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-37.d
Date Inj'd : 10/13/2018 6:32 pm
Sample : cicv1660,42e,,8847

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:42 am

Compound #56: 1016-3 #2





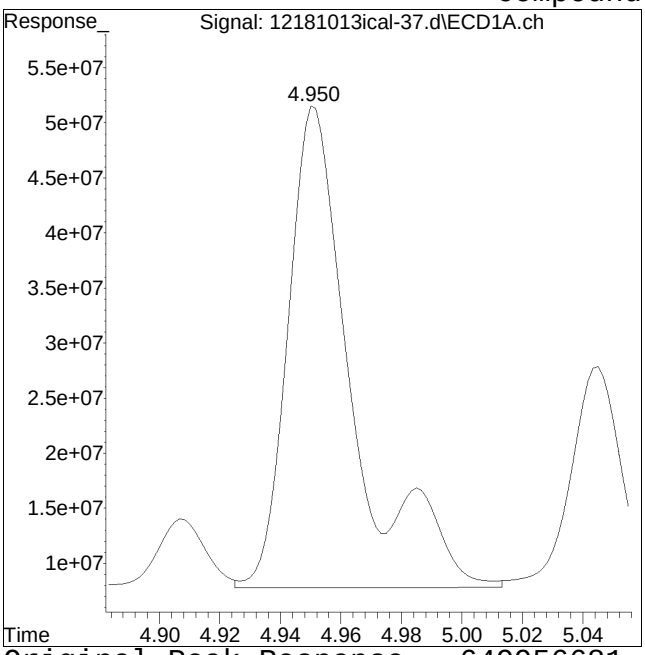
Original Peak Response = 567212191 Manual Peak Response = 1001252433 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

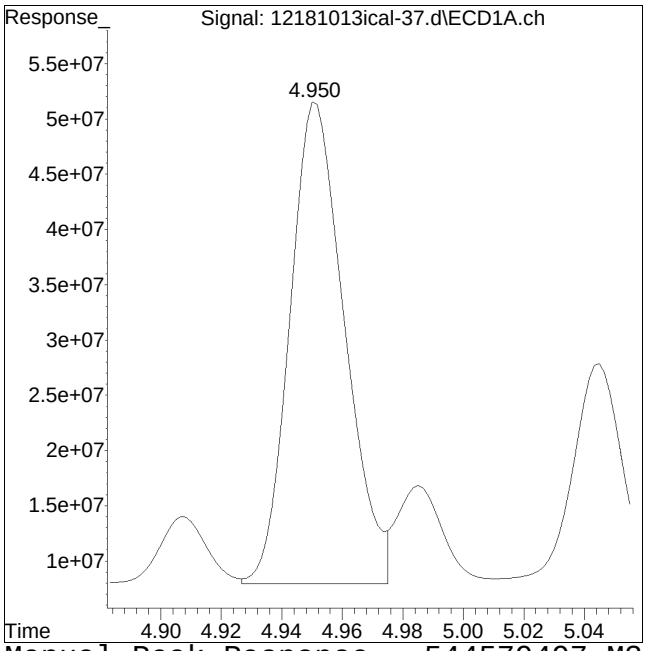
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-37.d
Date Inj'd : 10/13/2018 6:32 pm
Sample : cicv1660,42e,,8847

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:42 am

Compound #9: 1260-2





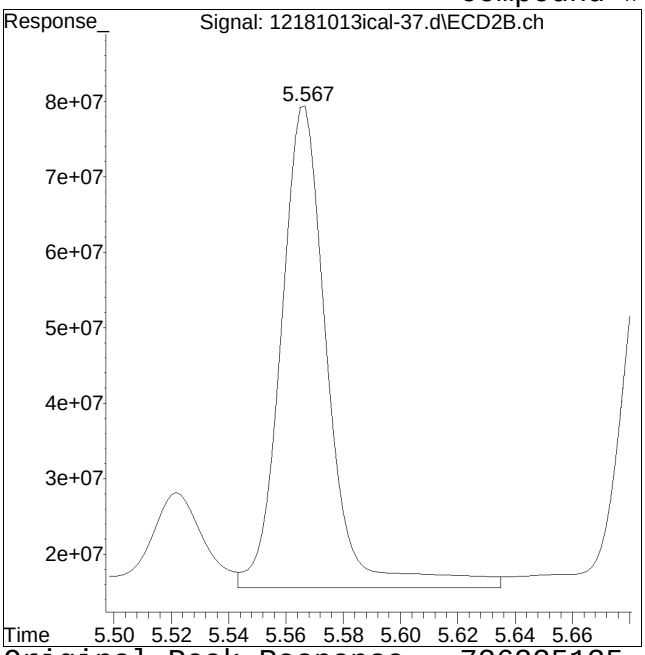
Original Peak Response = 649956681 Manual Peak Response = 544579497 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

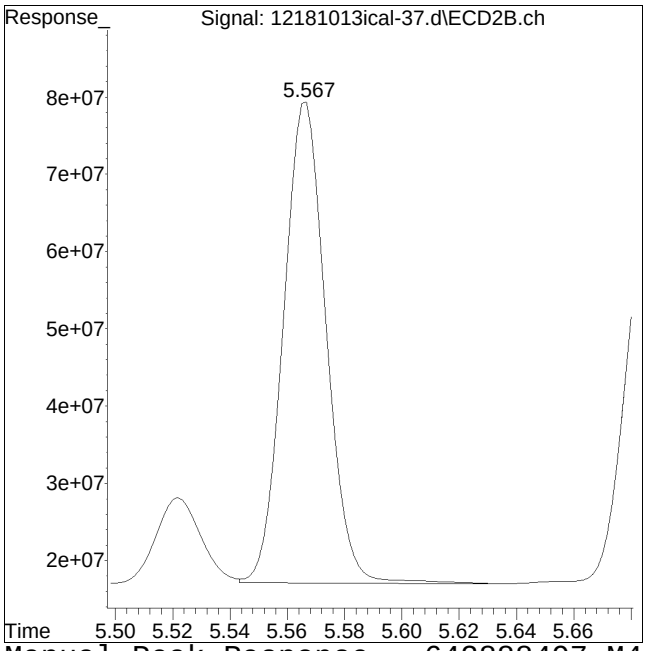
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-37.d
Date Inj'd : 10/13/2018 6:32 pm
Sample : cicv1660,42e,,8847

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:42 am

Compound #59: 1260-2 #2





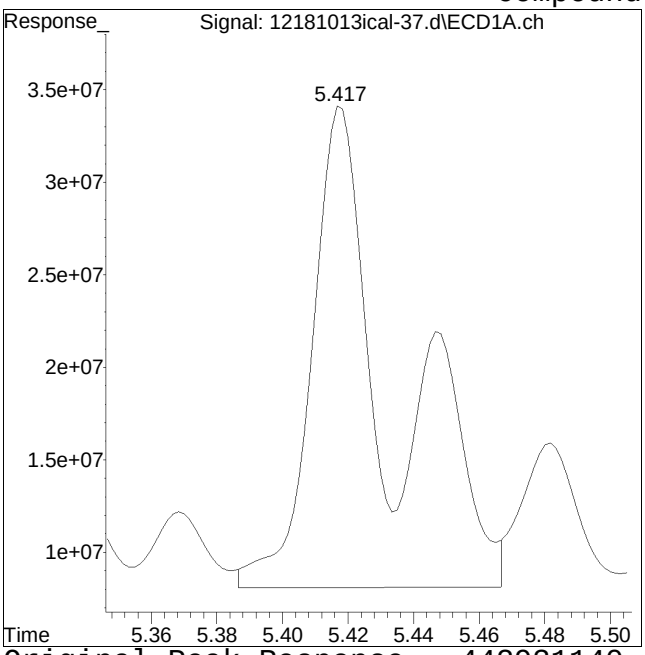
Original Peak Response = 726325135 Manual Peak Response = 642888497 M4
M4 = Poor automated baseline construction.

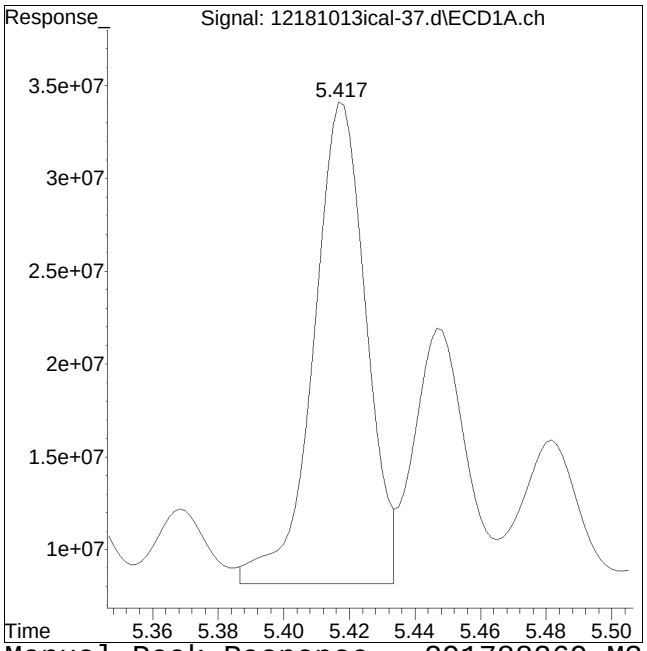
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-37.d
Date Inj'd : 10/13/2018 6:32 pm
Sample : cicv1660,42e,,8847

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:42 am

Compound #10: 1260-3





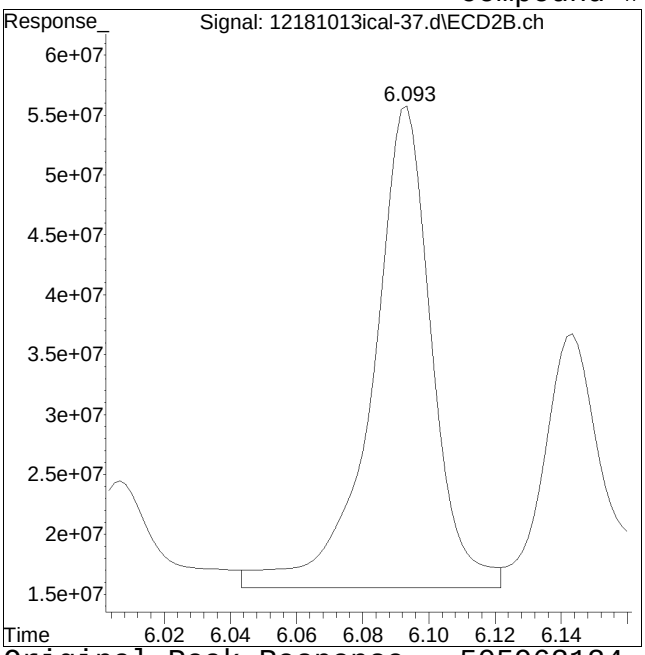
Original Peak Response = 442931140 Manual Peak Response = 291788269 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

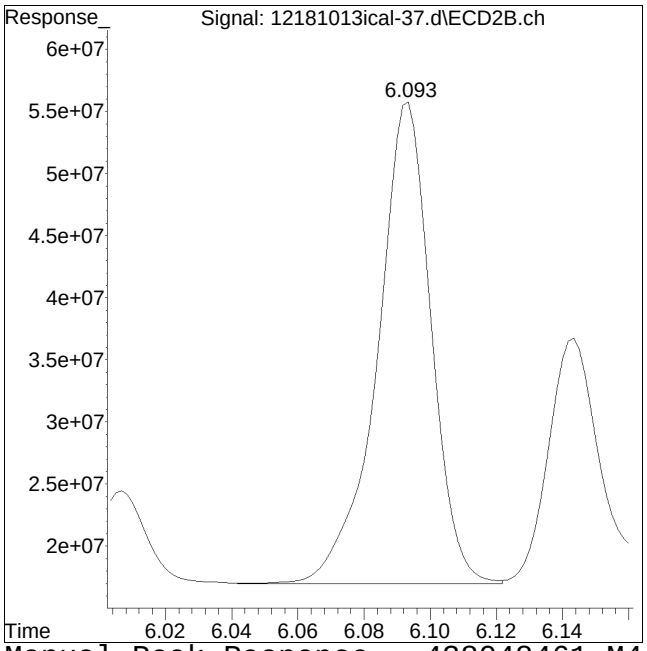
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-37.d
Date Inj'd : 10/13/2018 6:32 pm
Sample : cicv1660,42e,,8847

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:42 am

Compound #60: 1260-3 #2





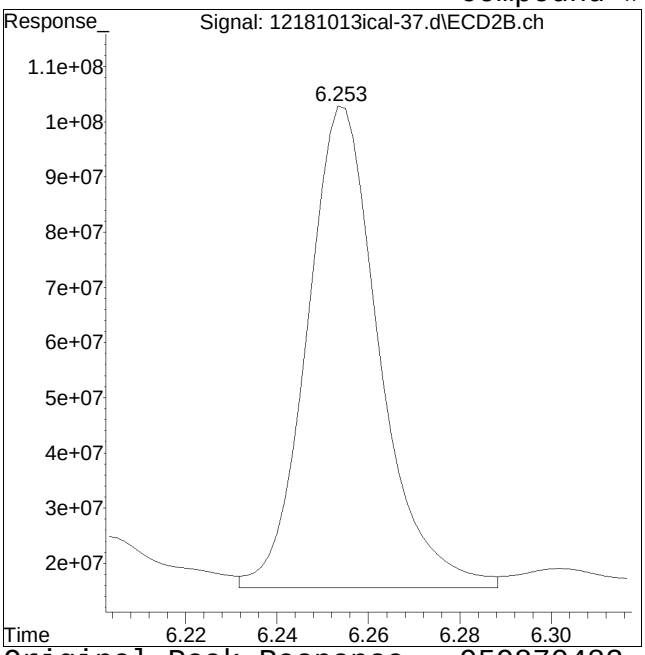
Original Peak Response = 505962124 Manual Peak Response = 438048461 M4
M4 = Poor automated baseline construction.

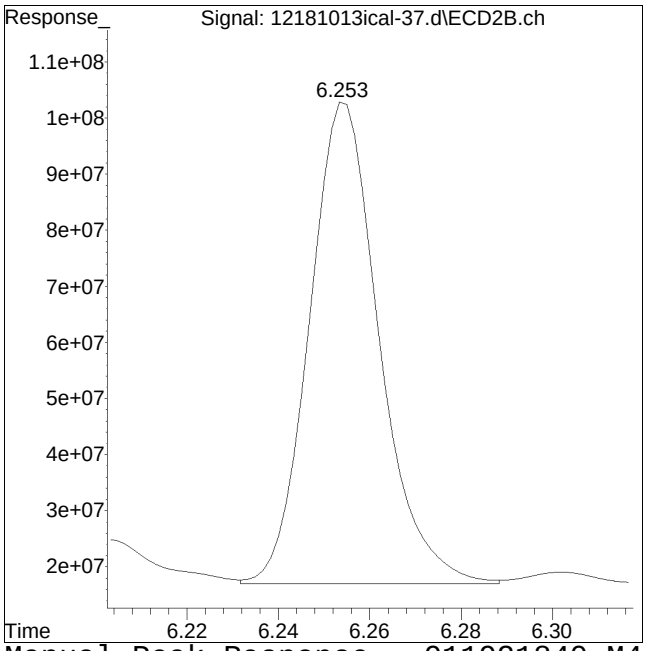
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-37.d
Date Inj'd : 10/13/2018 6:32 pm
Sample : cicv1660,42e,,8847

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:42 am

Compound #61: 1260-4 #2





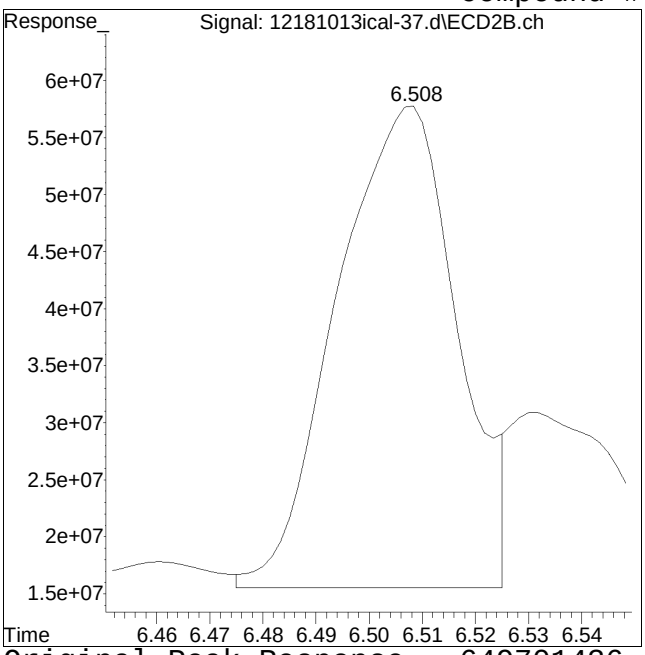
Original Peak Response = 959870483 Manual Peak Response = 911921840 M4
M4 = Poor automated baseline construction.

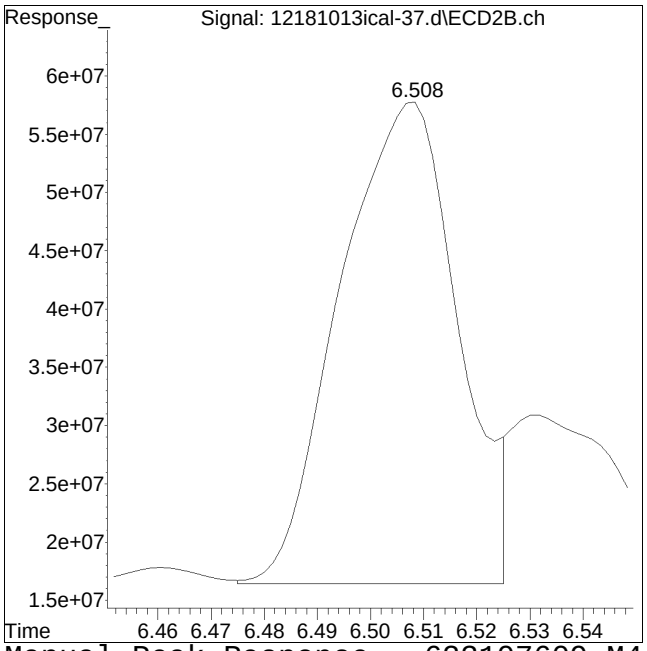
Manual Integration Report

Data Path : I:\Pest12\181013ical\
Data File : 12181013ical-37.d
Date Inj'd : 10/13/2018 6:32 pm
Sample : cicv1660,42e,,8847

QMethod : P12_pcb_10-13-18_ugL_.m
Operator : Pest12:kb
Instrument : Pest 12
Quant Date : 10/16/2018 11:42 am

Compound #62: 1260-5 #2





Original Peak Response = 649701436 Manual Peak Response = 623107609 M4
M4 = Poor automated baseline construction.

Continuing Calibration

Continuing Calibration
Form 7

Client	: CHA Companies		**Lab Number**	: L1849060	
Project Name	: 700 SMITH BLVD		**Project Number**	: 29852.1202.44000	
Instrument ID	: PEST7		**Calibration Date**	: 12/04/18 00:42	
Lab File ID	: P7181204a-01		**Init. Calib. Date(s)**	: 04/10/18	04/10/18
Sample No	: WG1185226-1		**Init. Calib. Times**	: 16:17	22:29
Channel	: A				

Compound	Amount	Calc.	Min RRF	%D	Max %D	Area%	Dev(min)
1660_1br2nb	250	250	-	0	20	125	0
2,4,5,6-Tetrachloro-m-xylen	160	184.044	-	-15	20	143	0
Decachlorobiphenyl	320	297.895	-	6.9	20	121	0
1016-2	2500	2260.933	-	9.6	20	121	0
1016-3	2500	2476.137	-	1	20	123	0
1016-4	2500	2359.159	-	5.6	20	124	0
1016-5	2500	2211.357	-	11.5	20	114	0
1260-1	2500	2202.501	-	11.9	20	117	0
1260-2	2500	2353.865	-	5.8	20	122	0
1260-3	2500	2245.373	-	10.2	20	115	0
1260-4	2500	2280.016	-	8.8	20	118	0
1260-5	2500	2256.745	-	9.7	20	117	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: CHA Companies		**Lab Number**	: L1849060	
Project Name	: 700 SMITH BLVD		**Project Number**	: 29852.1202.44000	
Instrument ID	: PEST7		**Calibration Date**	: 12/04/18 00:42	
Lab File ID	: P7181204a-01		**Init. Calib. Date(s)**	: 04/10/18	04/10/18
Sample No	: WG1185226-1		**Init. Calib. Times**	: 16:17	22:29
Channel	: B				

Compound	Amount	Calc.	Min RRF	%D	Max %D	Area%	Dev(min)
1660_1br2nb #2	250	250	-	0	20	122	-.02
2,4,5,6-Tetrachloro-m-xylen	160	196.788	-	-23*	20	152	-.02
Decachlorobiphenyl #2	320	321.941	-	-0.6	20	129	-.02
1016-2 #2	2500	2097.329	-	16.1	20	110	-.03
1016-3 #2	2500	2497.774	-	0.1	20	126	-.04
1016-4 #2	2500	2345.407	-	6.2	20	121	-.04
1016-5 #2	2500	2207.997	-	11.7	20	116	-.04
1260-1 #2	2500	2234.723	-	10.6	20	117	-.04
1260-2 #2	2500	2349.717	-	6	20	123	-.04
1260-3 #2	2500	2333.537	-	6.7	20	120	-.04
1260-4 #2	2500	2473.506	-	1.1	20	123	-.04
1260-5 #2	2500	2302.123	-	7.9	20	114	-.04

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: CHA Companies		**Lab Number**	: L1849060	
Project Name	: 700 SMITH BLVD		**Project Number**	: 29852.1202.44000	
Instrument ID	: PEST16		**Calibration Date**	: 12/04/18 01:57	
Lab File ID	: 16181204a-01		**Init. Calib. Date(s)**	: 08/09/18	08/09/18
Sample No	: WG1185229-1		**Init. Calib. Times**	: 09:38	15:52
Channel	: A				

Compound	Amount	Calc.	Min RRF	%D	Max %D	Area%	Dev(min)
1660_1br2nb	250	250	-	0	20	135	0
2,4,5,6-Tetrachloro-m-xylen	160	187.755	-	-17.3	20	151	0
Decachlorobiphenyl	320	383.729	-	-19.9	20	160	0
1016-1	2500	2539.261	-	-1.6	20	141	0
1016-2	2500	2382.602	-	4.7	20	128	0
1016-3	2500	3092.313	-	-23.7*	20	168	0
1016-4	2500	2802.519	-	-12.1	20	152	0
1016-5	2500	2627.158	-	-5.1	20	143	0
1260-1	2500	2667.718	-	-6.7	20	146	0
1260-2	2500	2719.835	-	-8.8	20	149	0
1260-3	2500	2787.379	-	-11.5	20	150	0
1260-4	2500	2804.046	-	-12.2	20	148	0
1260-5	2500	2888.693	-	-15.5	20	155	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: CHA Companies		**Lab Number**	: L1849060	
Project Name	: 700 SMITH BLVD		**Project Number**	: 29852.1202.44000	
Instrument ID	: PEST16		**Calibration Date**	: 12/04/18 01:57	
Lab File ID	: 16181204a-01		**Init. Calib. Date(s)**	: 08/09/18	08/09/18
Sample No	: WG1185229-1		**Init. Calib. Times**	: 09:38	15:52
Channel	: B				

Compound	Amount	Calc.	Min RRF	%D	Max %D	Area%	Dev(min)
1660_1br2nb #2	250	250	-	0	20	102	0
2,4,5,6-Tetrachloro-m-xylen	160	175.829	-	-9.9	20	112	0
Decachlorobiphenyl #2	320	344.664	-	-7.7	20	113	0
1016-1 #2	2500	2162.846	-	13.5	20	94	0
1016-2 #2	2500	2254.15	-	9.8	20	95	0
1016-3 #2	2500	2879.918	-	-15.2	20	119	0
1016-4 #2	2500	2677.452	-	-7.1	20	114	0
1016-5 #2	2500	2505.702	-	-0.2	20	105	0
1260-1 #2	2500	2710.677	-	-8.4	20	119	0
1260-2 #2	2500	2850.724	-	-14	20	121	0
1260-3 #2	2500	2829.57	-	-13.2	20	122	0
1260-4 #2	2500	2912.29	-	-16.5	20	120	0
1260-5 #2	2500	2866.324	-	-14.7	20	118	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: CHA Companies		**Lab Number**	: L1849060	
Project Name	: 700 SMITH BLVD		**Project Number**	: 29852.1202.44000	
Instrument ID	: PEST7		**Calibration Date**	: 12/04/18 07:50	
Lab File ID	: P7181204a-22		**Init. Calib. Date(s)**	: 04/10/18	04/10/18
Sample No	: WG1185226-2		**Init. Calib. Times**	: 16:17	22:29
Channel	: A				

Compound	Amount	Calc.	Min RRF	%D	Max %D	Area%	Dev(min)
1660_1br2nb	250	250	-	0	20	137	0
2,4,5,6-Tetrachloro-m-xylen	160	182.632	-	-14.1	20	156	0
Decachlorobiphenyl	320	307.176	-	4	20	137	0
1016-2	2500	2267.545	-	9.3	20	134	0
1016-3	2500	2567.511	-	-2.7	20	141	0
1016-4	2500	2335.997	-	6.6	20	135	0
1016-5	2500	2208.042	-	11.7	20	125	0
1260-1	2500	2182.963	-	12.7	20	128	0
1260-2	2500	2322.667	-	7.1	20	132	0
1260-3	2500	2254.185	-	9.8	20	127	0
1260-4	2500	2384.405	-	4.6	20	136	0
1260-5	2500	2328.972	-	6.8	20	132	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: CHA Companies		**Lab Number**	: L1849060	
Project Name	: 700 SMITH BLVD		**Project Number**	: 29852.1202.44000	
Instrument ID	: PEST7		**Calibration Date**	: 12/04/18 07:50	
Lab File ID	: P7181204a-22		**Init. Calib. Date(s)**	: 04/10/18	04/10/18
Sample No	: WG1185226-2		**Init. Calib. Times**	: 16:17	22:29
Channel	: B				

Compound	Amount	Calc.	Min RRF	%D	Max %D	Area%	Dev(min)
1660_1br2nb #2	250	250	-	0	20	134	0
2,4,5,6-Tetrachloro-m-xylen	160	195.316	-	-22.1*	20	167	0
Decachlorobiphenyl #2	320	321.465	-	-0.5	20	143	0
1016-2 #2	2500	2135.994	-	14.6	20	124	0
1016-3 #2	2500	2465.353	-	1.4	20	137	0
1016-4 #2	2500	2278.11	-	8.9	20	130	0
1016-5 #2	2500	2308.344	-	7.7	20	133	0
1260-1 #2	2500	2402.771	-	3.9	20	139	0
1260-2 #2	2500	2462.63	-	1.5	20	143	0
1260-3 #2	2500	2397.867	-	4.1	20	136	0
1260-4 #2	2500	2500.287	-	-0	20	138	0
1260-5 #2	2500	2317.412	-	7.3	20	126	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: CHA Companies		**Lab Number**	: L1849060	
Project Name	: 700 SMITH BLVD		**Project Number**	: 29852.1202.44000	
Instrument ID	: PEST12		**Calibration Date**	: 12/10/18 14:04	
Lab File ID	: 12181210A-02		**Init. Calib. Date(s)**	: 10/13/18	10/13/18
Sample No	: WG1187642-1		**Init. Calib. Times**	: 11:31	17:30
Channel	: A				

Compound	Amount	Calc.	Min RRF	%D	Max %D	Area%	Dev(min)
1660_1br2nb	250	250	-	0	20	74	0
2,4,5,6-Tetrachloro-m-xylen	160	200.992	-	-25.6*	20	95	0
Decachlorobiphenyl	320	291.208	-	9	20	68	0
1016-1	2500	2700.811	-	-8	20	82	0
1016-2	2500	2760.758	-	-10.4	20	84	0
1016-3	2500	2904.943	-	-16.2	20	88	0
1016-4	2500	2868.072	-	-14.7	20	85	0
1016-5	2500	2982.815	-	-19.3	20	91	0
1260-2	2500	2817.788	-	-12.7	20	86	0
1260-3	2500	2184.004	-	12.6	20	67	0
1260-4	2500	2139.697	-	14.4	20	64	0
1260-5	2500	2042.922	-	18.3	20	62	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: CHA Companies		**Lab Number**	: L1849060	
Project Name	: 700 SMITH BLVD		**Project Number**	: 29852.1202.44000	
Instrument ID	: PEST12		**Calibration Date**	: 12/10/18 14:04	
Lab File ID	: 12181210A-02		**Init. Calib. Date(s)**	: 10/13/18	10/13/18
Sample No	: WG1187642-1		**Init. Calib. Times**	: 11:31	17:30
Channel	: B				

Compound	Amount	Calc.	Min RRF	%D	Max %D	Area%	Dev(min)
1660_1br2nb #2	250	250	-	0	20	51	0
2,4,5,6-Tetrachloro-m-xylen	160	192.203	-	-20.1*	20	63	0
Decachlorobiphenyl #2	320	222.489	-	30.5*	20	37	-.01
1016-1 #2	2500	2651.903	-	-6.1	20	54	0
1016-2 #2	2500	2612.904	-	-4.5	20	55	0
1016-3 #2	2500	2587.554	-	-3.5	20	55	0
1016-4 #2	2500	2809.135	-	-12.4	20	59	0
1016-5 #2	2500	2866.966	-	-14.7	20	58	0
1260-2 #2	2500	2359.718	-	5.6	20	49	0
1260-3 #2	2500	2114.004	-	15.4	20	43	0
1260-4 #2	2500	1945.91	-	22.2*	20	41	0
1260-5 #2	2500	1890.251	-	24.4*	20	40	-.01

* Value outside of QC limits.

Evaluate Continuing Calibration Report

Data Path : I:\Pest7\181204A\
Data File : P7181204a-01.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 04 Dec 2018 12:42 am
Operator : pest7:ht
Sample   : WG1185226-1,42e,,+1016/1260 pp8980 (Sig #1); +1016/1260 pp8980 (Sig #2)
Misc   : WG1185226,ical14857
ALS Vial : 1 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 04 01:58:09 2018
Quant Method : I:\Pest7\181204A\P7_pcb_04_10_18_ugL_ICAL14857.m
Quant Title : pcb
QLast Update : Mon Nov 26 22:05:53 2018
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	250.000	250.000	0.0	125	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen	160.000	184.044	-15.0	143	0.00
3	s	Decachlorobiphenyl	320.000	297.895	6.9	121	0.00
4	l1	1016-2	2500.000	2260.933	9.6	121	0.00
5	l1	1016-3	2500.000	2476.137	1.0	123	0.00
6	l1	1016-4	2500.000	2359.159	5.6	124	0.00
7	l1	1016-5	2500.000	2211.357	11.5	114	0.00
8	l2	1260-1	2500.000	2202.501	11.9	117	0.00
9	l2	1260-2	2500.000	2353.865	5.8	122	0.00
10	l2	1260-3	2500.000	2245.373	10.2	115	0.00
11	l2	1260-4	2500.000	2280.016	8.8	118	0.00
12	l2	1260-5	2500.000	2256.745	9.7	117	0.00
51	i	1660_1br2nb #2	250.000	250.000	0.0	122	-0.02
52	s	2,4,5,6-Tetrachloro-m-xylen	160.000	196.788	-23.0#	152	-0.02
53	s	Decachlorobiphenyl #2	320.000	321.941	-0.6	129	-0.02
54	l1	1016-2 #2	2500.000	2097.329	16.1	110	-0.03
55	l1	1016-3 #2	2500.000	2497.774	0.1	126	-0.04
56	l1	1016-4 #2	2500.000	2345.407	6.2	121	-0.04
57	l1	1016-5 #2	2500.000	2207.997	11.7	116	-0.04
58	l2	1260-1 #2	2500.000	2234.723	10.6	117	-0.04
59	l2	1260-2 #2	2500.000	2349.717	6.0	123	-0.04
60	l2	1260-3 #2	2500.000	2333.537	6.7	120	-0.04
61	l2	1260-4 #2	2500.000	2473.506	1.1	123	-0.04
62	l2	1260-5 #2	2500.000	2302.123	7.9	114	-0.04

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\Pest7\181204A\
Data File : P7181204a-01.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 04 Dec 2018 12:42 am
Operator : pest7:ht
Sample   : WG1185226-1,42e,,+1016/1260 pp8980 (Sig #1); +1016/1260 pp8980 (Sig #2)
Misc   : WG1185226,ical14857
ALS Vial : 1 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 04 01:58:09 2018
Quant Method : I:\Pest7\181204A\P7_pcb_04_10_18_ugL_ICAL14857.m
Quant Title : pcb
QLast Update : Mon Nov 26 22:05:53 2018
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area% Dev(Min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\181204A\
Data File : P7181204a-01.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2018 12:42 am
Operator : pest7:ht
Sample : WG1185226-1,42e,,+1016/1260 pp8980 (Sig #1); +1016/1260 pp8980 (Sig #2)
Misc : WG1185226,ical14857
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 04 01:58:09 2018
Quant Method : I:\Pest7\181204A\P7_pcb_04_10_18_ugL_ICAL14857.m
Quant Title : pcb
QLast Update : Mon Nov 26 22:05:53 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : 1660 - 1660

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.948	1.985	546.2E6	409.2E6	250.000M4	250.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.406	2.551	483.2E6	370.7E6	184.044	196.788
	Spiked Amount 500.000	Range 30 - 150		Recovery =		36.81%	39.36%
3) s	Decachlorobi	6.375	6.844	535.8E6	397.9E6	297.895M4	321.941
	Spiked Amount 500.000	Range 30 - 150		Recovery =		59.58%	64.39%
	Target Compounds						
4) l1	1016-2	2.863	3.163f	242.8E6	174.8E6	2260.933	2097.329
5) l1	1016-3	3.187	3.521f	291.9E6	225.8E6	2476.137M4	2497.774
6) l1	1016-4	3.284	3.626f	202.6E6	142.7E6	2359.159	2345.407
7) l1	1016-5	3.588	4.009f	159.2E6	110.7E6	2211.357M4	2207.997M4
	Sum 1016-2			896.4E6	654.0E6	9307.586	9148.507
	Average 1016-2					2326.897	2287.127
8) l2	1260-1	4.549	4.995f	290.4E6	197.8E6	2202.501M4	2234.723M4
9) l2	1260-2	4.759	5.148f	445.3E6	239.6E6	2353.865M4	2349.717M4
10) l2	1260-3	5.228	5.671f	270.4E6	192.4E6	2245.373M4	2333.537
11) l2	1260-4	5.446	5.841f	607.4E6	403.9E6	2280.016M4	2473.506
12) l2	1260-5	5.644	6.085f	390.9E6	262.2E6	2256.745M4	2302.123
	Sum 1260-1			2004.4E6	1295.9E6	11338.500	11693.606
	Average 1260-1					2267.700	2338.721
	Sum 1221-1			0	0	N.D.	N.D.
	Average 1221-1					0.000	0.000

Data Path : I:\Pest7\181204A\
Data File : P7181204a-01.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2018 12:42 am
Operator : pest7:ht
Sample : WG1185226-1,42e,,+1016/1260 pp8980 (Sig #1); +1016/1260 pp8980 (Sig #2)
Misc : WG1185226,ical14857
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 04 01:58:09 2018
Quant Method : I:\Pest7\181204A\P7_pcb_04_10_18_ugL_ICAL14857.m
Quant Title : pcb
QLast Update : Mon Nov 26 22:05:53 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

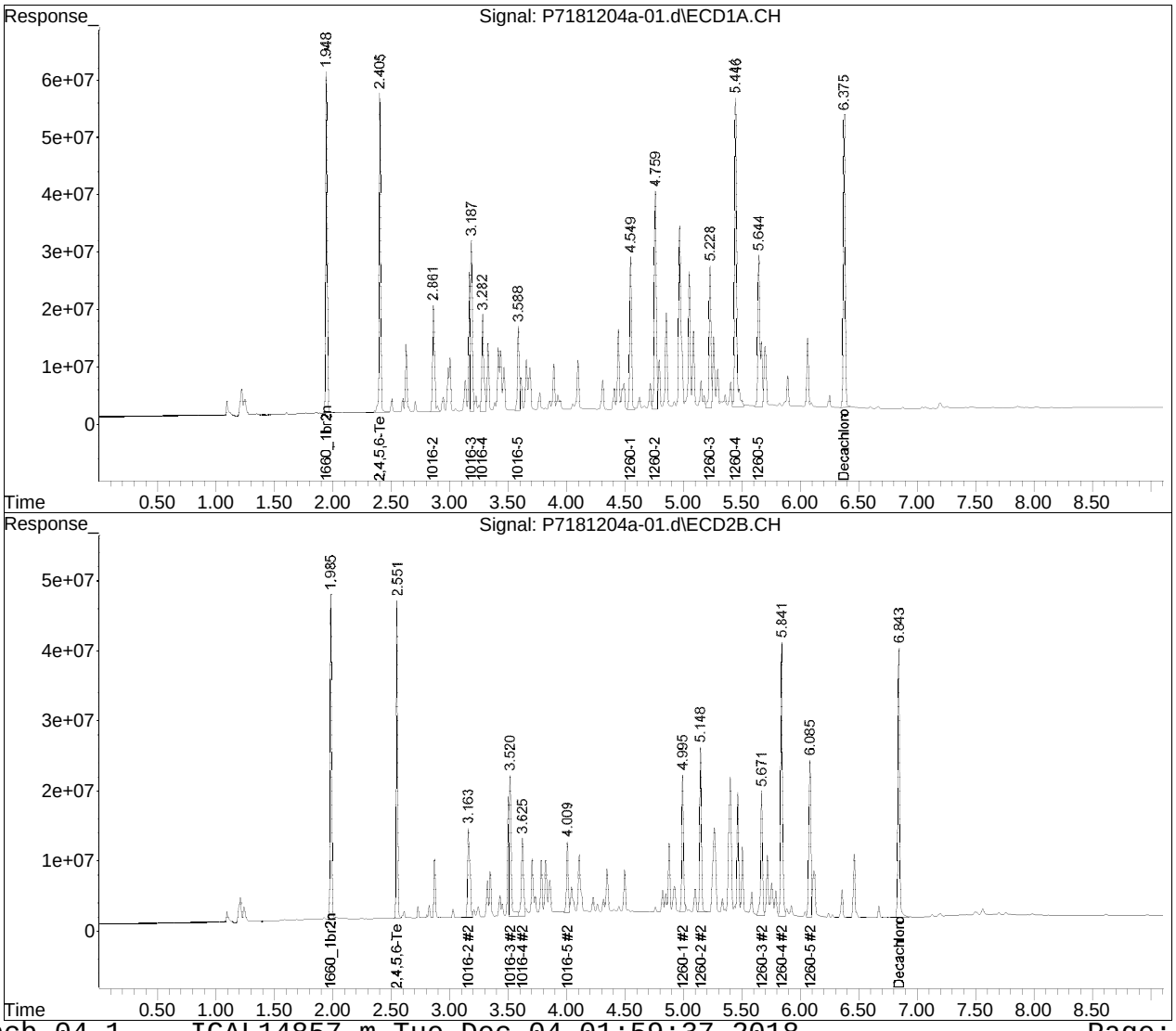
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : 1660 - 1660ation Report (QT Reviewed)

Data Path : I:\Pest7\181204A\
Data File : P7181204a-01.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2018 12:42 am
Operator : pest7:ht
Sample : WG1185226-1,42e,,+1016/1260 pp8980 (Sig #1); +1016/1260 pp8980 (Si
Misc : WG1185226,ical14857
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 04 01:58:09 2018
Quant Method : I:\Pest7\181204A\P7_pcb_04_10_18_ugL_ICAL14857.m
Quant Title : pcb
QLast Update : Mon Nov 26 22:05:53 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Evaluate Continuing Calibration Report

Data Path : I:\Pest7\181204A\
Data File : P7181204a-22.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 04 Dec 2018   7:50 am
Operator : pest7:wr
Sample   : wg1185226-2,42e,,+1016/1260 pp8980 (Sig #1); +1016/1260 pp8980 (Sig #2)
Misc   : wg1185226,ical14857
ALS Vial : 22 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 04 08:20:50 2018
Quant Method : I:\Pest7\181204A\P7_pcb_04_10_18_ugL_ICAL14857.m
Quant Title : pcb
QLast Update : Mon Nov 26 22:05:53 2018
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	250.000	250.000	0.0	137	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen	160.000	182.632	-14.1	156	0.00
3	s	Decachlorobiphenyl	320.000	307.176	4.0	137	0.00
4	l1	1016-2	2500.000	2267.545	9.3	134	0.00
5	l1	1016-3	2500.000	2567.511	-2.7	141	0.00
6	l1	1016-4	2500.000	2335.997	6.6	135	0.00
7	l1	1016-5	2500.000	2208.042	11.7	125	0.00
8	l2	1260-1	2500.000	2182.963	12.7	128	0.00
9	l2	1260-2	2500.000	2322.667	7.1	132	0.00
10	l2	1260-3	2500.000	2254.185	9.8	127	0.00
11	l2	1260-4	2500.000	2384.405	4.6	136	0.00
12	l2	1260-5	2500.000	2328.972	6.8	132	0.00
51	i	1660_1br2nb #2	250.000	250.000	0.0	134	0.00
52	s	2,4,5,6-Tetrachloro-m-xylen	160.000	195.316	-22.1#	167	0.00
53	s	Decachlorobiphenyl #2	320.000	321.465	-0.5	143	0.00
54	l1	1016-2 #2	2500.000	2135.994	14.6	124	0.00
55	l1	1016-3 #2	2500.000	2465.353	1.4	137	0.00
56	l1	1016-4 #2	2500.000	2278.110	8.9	130	0.00
57	l1	1016-5 #2	2500.000	2308.344	7.7	133	0.00
58	l2	1260-1 #2	2500.000	2402.771	3.9	139	0.00
59	l2	1260-2 #2	2500.000	2462.630	1.5	143	0.00
60	l2	1260-3 #2	2500.000	2397.867	4.1	136	0.00
61	l2	1260-4 #2	2500.000	2500.287	-0.0	138	0.00
62	l2	1260-5 #2	2500.000	2317.412	7.3	126	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\Pest7\181204A\
Data File : P7181204a-22.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On   : 04 Dec 2018   7:50 am
Operator : pest7:wr
Sample   : wg1185226-2,42e,,+1016/1260 pp8980 (Sig #1); +1016/1260 pp8980 (Sig #2)
Misc   : wg1185226,ical14857
ALS Vial : 22 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 04 08:20:50 2018
Quant Method : I:\Pest7\181204A\P7_pcb_04_10_18_ugL_ICAL14857.m
Quant Title : pcb
QLast Update : Mon Nov 26 22:05:53 2018
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area% Dev(Min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\181204A\
Data File : P7181204a-22.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2018 7:50 am
Operator : pest7:wr
Sample : wg1185226-2,42e,,+1016/1260 pp8980 (Sig #1); +1016/1260 pp8980 (Sig #2)
Misc : wg1185226,ical14857
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 04 08:20:50 2018
Quant Method : I:\Pest7\181204A\P7_pcb_04_10_18_ugL_ICAL14857.m
Quant Title : pcb
QLast Update : Mon Nov 26 22:05:53 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : 1660 - 1660

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.940	1.986	600.6E6	451.3E6	250.000	250.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.392	2.549	527.1E6	405.8E6	182.632	195.316
	Spiked Amount	500.000	Range 30 - 150		Recovery =	36.53%	39.06%
3) s	Decachlorobi	6.354	6.827f	607.5E6	438.2E6	307.176	321.465
	Spiked Amount	500.000	Range 30 - 150		Recovery =	61.44%	64.29%
	Target Compounds						
4) l1	1016-2	2.845f	3.159f	267.7E6	196.3E6	2267.545	2135.994
5) l1	1016-3	3.167f	3.516f	332.7E6	245.8E6	2567.511M3	2465.353
6) l1	1016-4	3.262f	3.621f	220.5E6	152.9E6	2335.997	2278.110
7) l1	1016-5	3.565f	4.003f	174.7E6	127.6E6	2208.042M3	2308.344
	Sum 1016-2			995.7E6	722.7E6	9379.095	9187.801
Average	1016-2					2344.774	2296.950
8) l2	1260-1	4.526f	4.989f	316.4E6	234.5E6	2182.963	2402.771
9) l2	1260-2	4.735f	5.143f	483.1E6	277.0E6	2322.667M3	2462.630
10) l2	1260-3	5.206f	5.664f	298.4E6	218.0E6	2254.185M3	2397.867
11) l2	1260-4	5.426f	5.834f	698.4E6	450.3E6	2384.405	2500.287
12) l2	1260-5	5.624f	6.078f	443.6E6	291.1E6	2328.972	2317.412
	Sum 1260-1			2239.9E6	1470.9E6	11473.192	12080.966
Average	1260-1					2294.638	2416.193
	Sum 1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
	Sum 1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
	Sum 1242-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\181204A\
Data File : P7181204a-22.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2018 7:50 am
Operator : pest7:wr
Sample : wg1185226-2,42e,,+1016/1260 pp8980 (Sig #1); +1016/1260 pp8980 (Sig #2)
Misc : wg1185226,ical14857
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 04 08:20:50 2018
Quant Method : I:\Pest7\181204A\P7_pcb_04_10_18_ugL_ICAL14857.m
Quant Title : pcb
QLast Update : Mon Nov 26 22:05:53 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average 1242-1					0.000	0.000
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

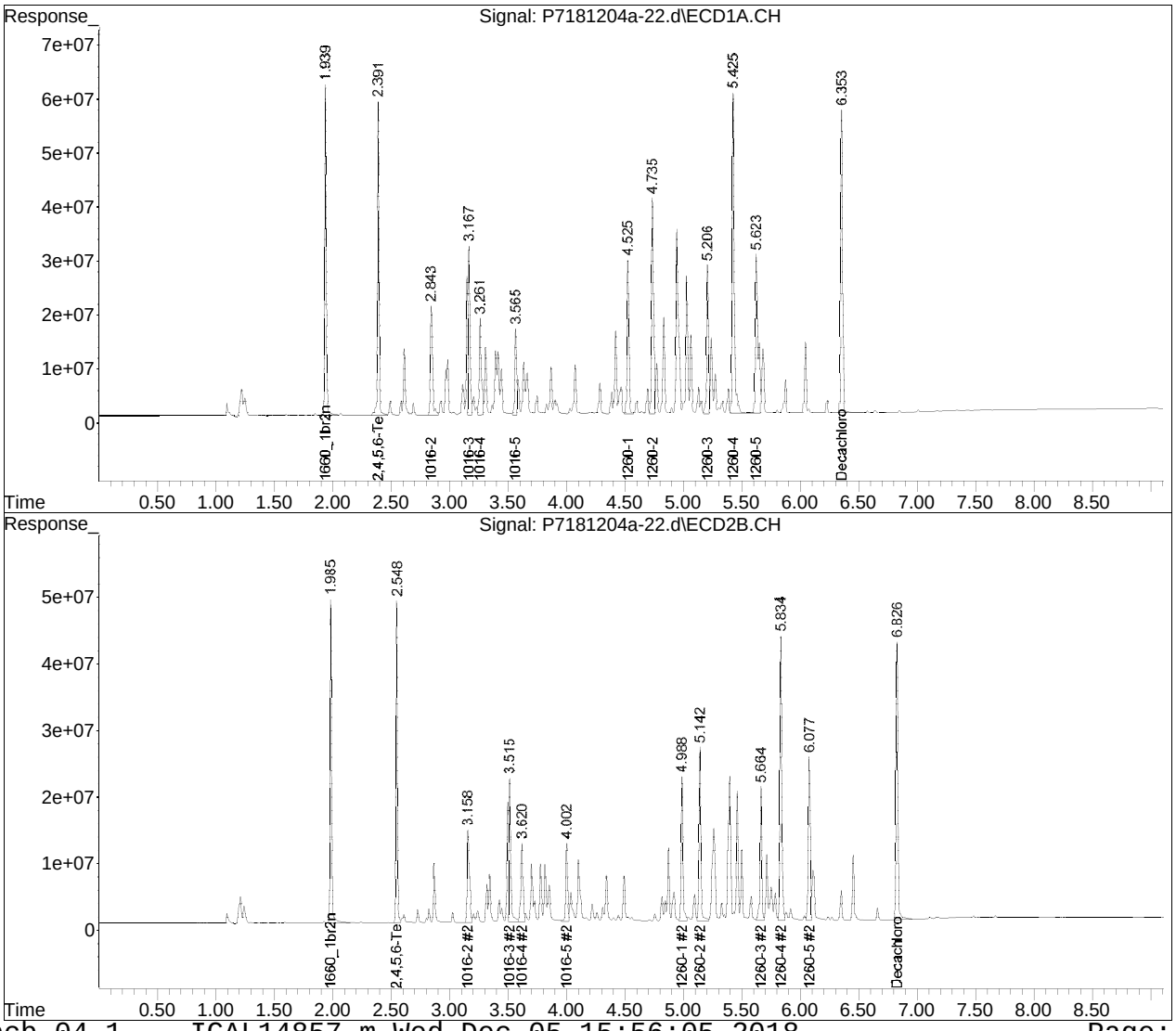
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : 1660 - 1660ation Report (QT Reviewed)

Data Path : I:\Pest7\181204A\
Data File : P7181204a-22.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2018 7:50 am
Operator : pest7:wr
Sample : wg1185226-2,42e,,+1016/1260 pp8980 (Sig #1); +1016/1260 pp8980 (Si
Misc : wg1185226,ical14857
ALS Vial : 22 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 04 08:20:50 2018
Quant Method : I:\Pest7\181204A\P7_pcb_04_10_18_ugL_ICAL14857.m
Quant Title : pcb
QLast Update : Mon Nov 26 22:05:53 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

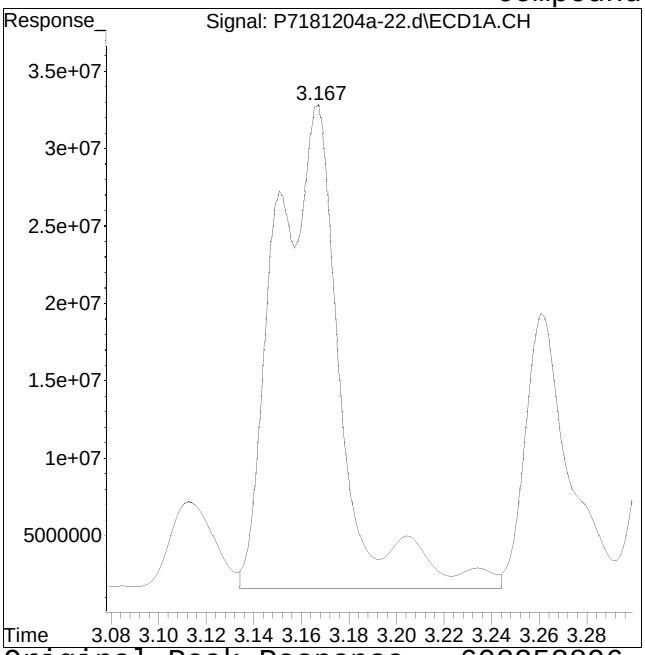
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

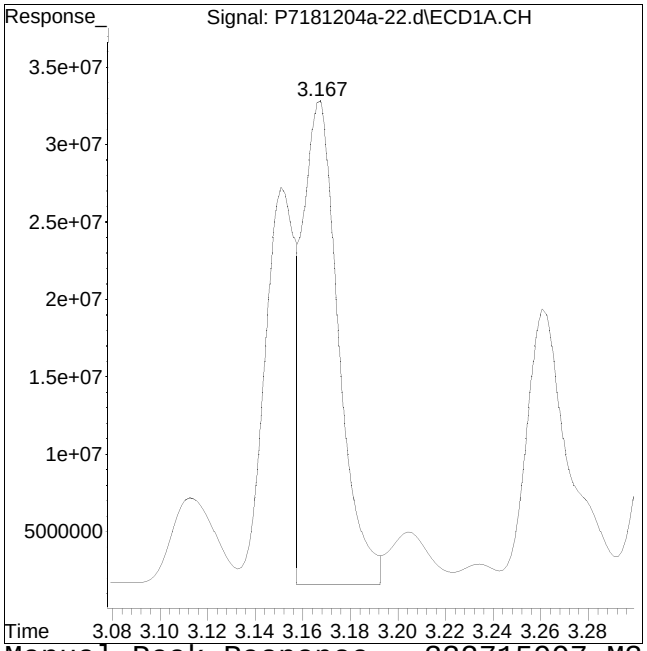


Manual Integration Report

Data Path : I:\Pest7\181204A\ QMethod : P7_pcb_04_10_18_ugL_ICAL
Data File : P7181204a-22.d Operator : pest7:wr
Date Inj'd : 12/4/2018 7:50 am Instrument : Pest 7
Sample : wg1185226-2,42e,,+1016/126 Quant Date : 12/4/2018 8:18 am

Compound #5: 1016-3



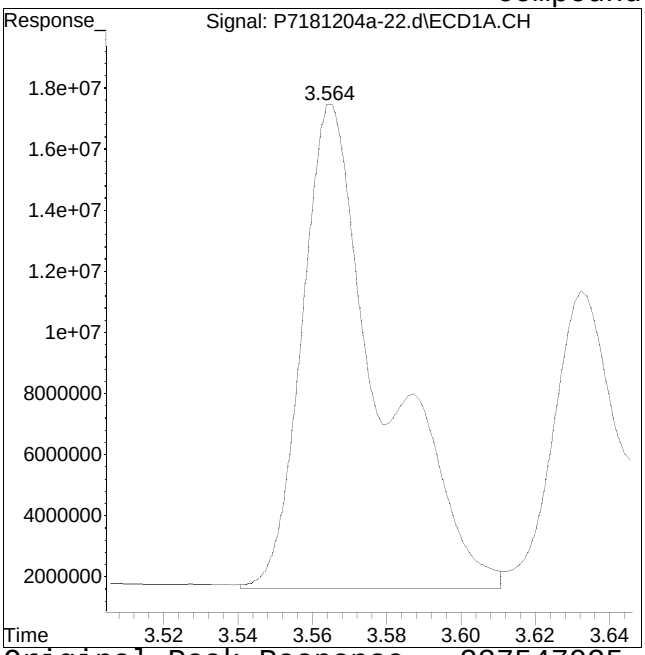


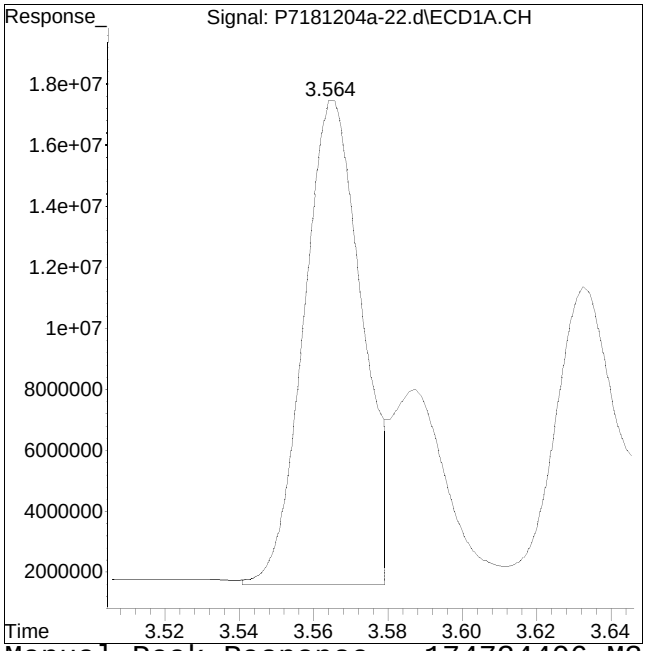
Original Peak Response = 602253896 Manual Peak Response = 332715997 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\Pest7\181204A\ QMethod : P7_pcb_04_10_18_ugL_ICAL
Data File : P7181204a-22.d Operator : pest7:wr
Date Inj'd : 12/4/2018 7:50 am Instrument : Pest 7
Sample : wg1185226-2,42e,,+1016/126 Quant Date : 12/4/2018 8:18 am

Compound #7: 1016-5



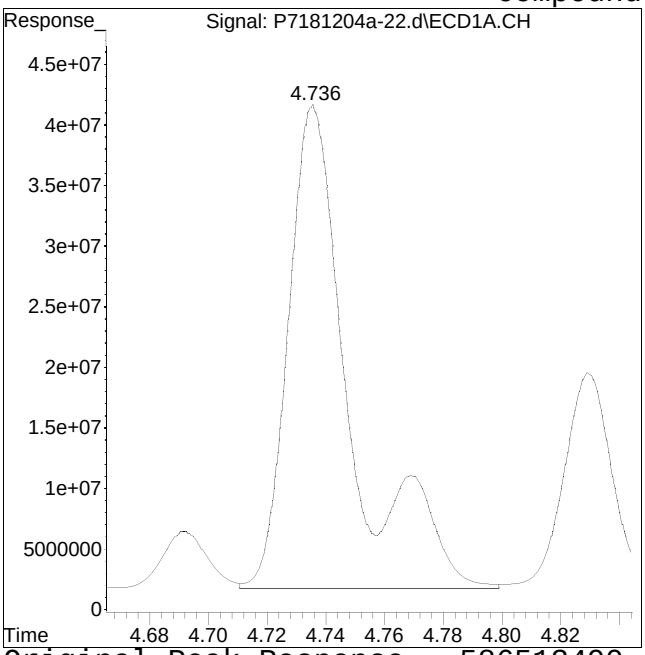


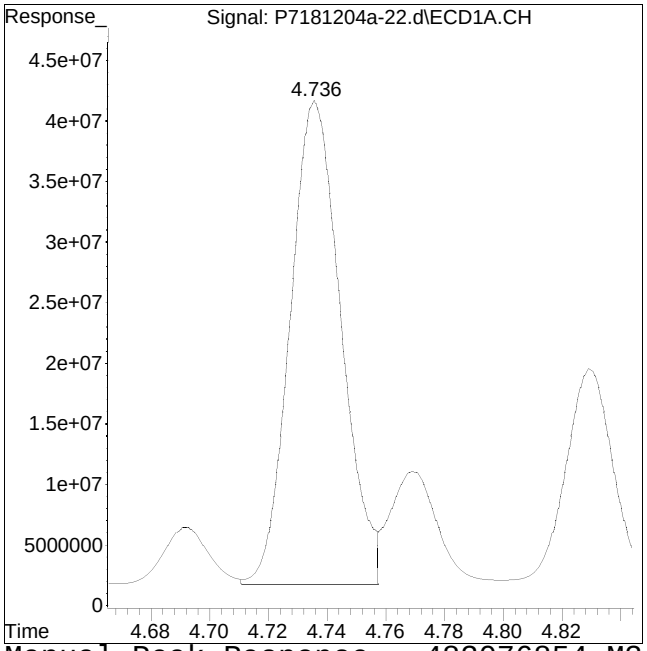
Original Peak Response = 237547925 Manual Peak Response = 174734406 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\Pest7\181204A\ QMethod : P7_pcb_04_10_18_ugL_ICAL
Data File : P7181204a-22.d Operator : pest7:wr
Date Inj'd : 12/4/2018 7:50 am Instrument : Pest 7
Sample : wg1185226-2,42e,,+1016/126 Quant Date : 12/4/2018 8:18 am

Compound #9: 1260-2



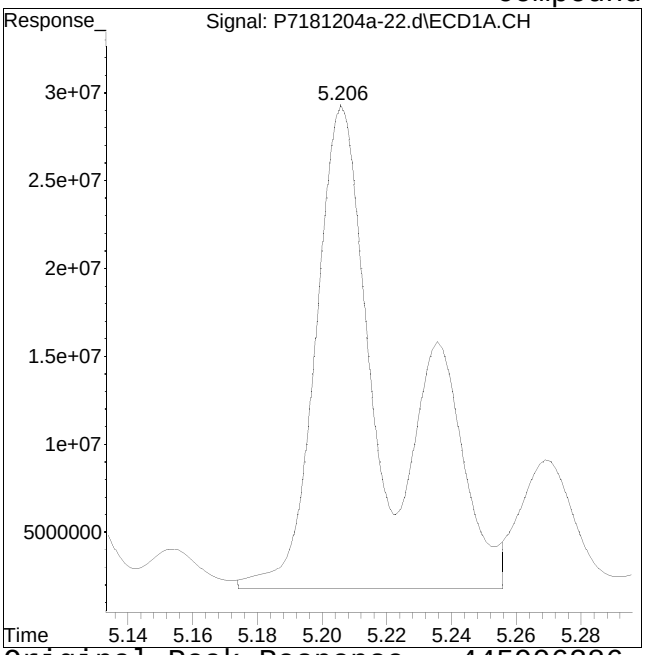


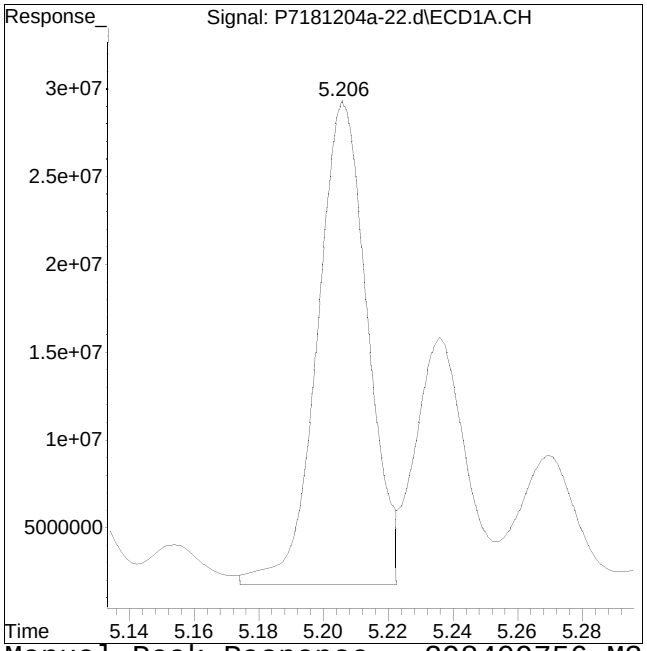
Original Peak Response = 586513490 Manual Peak Response = 483076854 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\Pest7\181204A\ QMethod : P7_pcb_04_10_18_ugL_ICAL
Data File : P7181204a-22.d Operator : pest7:wr
Date Inj'd : 12/4/2018 7:50 am Instrument : Pest 7
Sample : wg1185226-2,42e,,+1016/126 Quant Date : 12/4/2018 8:18 am

Compound #10: 1260-3





Original Peak Response = 445906386 Manual Peak Response = 298409756 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Evaluate Continuing Calibration Report

Data Path : I:\Pest16\181204A\
Data File : 16181204a-01.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 4 Dec 2018   1:57 am
Operator : pest16:ht
Sample   : WG1185229-1,42e,,+1016/1260 pp8980 (Sig #1); +1016/1260 pp8980 (Sig #2)
Misc   : WG1185229,ical14982
ALS Vial : 1   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 04 02:11:05 2018
Quant Method : I:\Pest16\181204A\P16_pcb_08_09i_18_ugL_ICAL14982.m
Quant Title : pcb
QLast Update : Fri Nov 30 09:54:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	250.000	250.000	0.0	135	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen	160.000	187.755	-17.3	151	0.00
3	s	Decachlorobiphenyl	320.000	383.729	-19.9	160	0.00
4	l1	1016-1	2500.000	2539.261	-1.6	141	0.00
5	l1	1016-2	2500.000	2382.602	4.7	128	0.00
6	l1	1016-3	2500.000	3092.313	-23.7#	168	0.00
7	l1	1016-4	2500.000	2802.519	-12.1	152	0.00
8	l1	1016-5	2500.000	2627.158	-5.1	143	0.00
9	l2	1260-1	2500.000	2667.718	-6.7	146	0.00
10	l2	1260-2	2500.000	2719.835	-8.8	149	0.00
11	l2	1260-3	2500.000	2787.379	-11.5	150	0.00
12	l2	1260-4	2500.000	2804.046	-12.2	148	0.00
13	l2	1260-5	2500.000	2888.693	-15.5	155	0.00
50	i	1660_1br2nb #2	250.000	250.000	0.0	102	0.00
51	s	2,4,5,6-Tetrachloro-m-xylen	160.000	175.829	-9.9	112	0.00
52	s	Decachlorobiphenyl #2	320.000	344.664	-7.7	113	0.00
53	l1	1016-1 #2	2500.000	2162.846	13.5	94	0.00
54	l1	1016-2 #2	2500.000	2254.150	9.8	95	0.00
55	l1	1016-3 #2	2500.000	2879.918	-15.2	119	0.00
56	l1	1016-4 #2	2500.000	2677.452	-7.1	114	0.00
57	l1	1016-5 #2	2500.000	2505.702	-0.2	105	0.00
58	l2	1260-1 #2	2500.000	2710.677	-8.4	119	0.00
59	l2	1260-2 #2	2500.000	2850.724	-14.0	121	0.00
60	l2	1260-3 #2	2500.000	2829.570	-13.2	122	0.00
61	l2	1260-4 #2	2500.000	2912.290	-16.5	120	0.00
62	l2	1260-5 #2	2500.000	2866.324	-14.7	118	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\Pest16\181204A\
Data File : 16181204a-01.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 4 Dec 2018   1:57 am
Operator : pest16:ht
Sample   : WG1185229-1,42e,,+1016/1260 pp8980 (Sig #1); +1016/1260 pp8980 (Sig #2)
Misc   : WG1185229,ical14982
ALS Vial : 1   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 04 02:11:05 2018
Quant Method : I:\Pest16\181204A\P16_pcb_08_09i_18_ugL_ICAL14982.m
Quant Title : pcb
QLast Update : Fri Nov 30 09:54:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area% Dev(Min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\181204A\
Data File : 16181204a-01.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 Dec 2018 1:57 am
Operator : pest16:ht
Sample : WG1185229-1,42e,,+1016/1260 pp8980 (Sig #1); +1016/1260 pp8980 (Sig #2)
Misc : WG1185229,ical14982
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 04 02:11:05 2018
Quant Method : I:\Pest16\181204A\P16_pcb_08_09i_18_ugL_ICAL14982.m
Quant Title : pcb
QLast Update : Fri Nov 30 09:54:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : 1660 - 1660

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	2.215	2.212	825.1E6	1266.1E6	250.000	250.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.718	2.831	777.8E6	1090.9E6	187.755	175.829
	Spiked Amount	500.000	Range 30 - 150		Recovery =	37.55%	35.17%
3) s	Decachlorobi	6.789	7.203	1152.8E6	1155.5E6	383.729	344.664
	Spiked Amount	500.000	Range 30 - 150		Recovery =	76.75%	68.93%
	Target Compounds						
4) l1	1016-1	2.966	3.178	155.0E6	218.5E6	2539.261M4	2162.846
5) l1	1016-2	3.225	3.490	346.6E6	500.7E6	2382.602M4	2254.150
6) l1	1016-3	3.587	3.872	786.9E6	1103.2E6	3092.313	2879.918M4
7) l1	1016-4	3.695	3.982	310.0E6	409.3E6	2802.519	2677.452
8) l1	1016-5	4.025	4.360	342.1E6	338.6E6	2627.158	2505.702
	Sum 1016-1			1940.6E6	2570.4E6	13443.852	12480.068
	Average 1016-1					2688.770	2496.014
9) l2	1260-1	4.975	5.335	502.8E6	657.1E6	2667.718	2710.677
10) l2	1260-2	5.179	5.486	758.3E6	761.0E6	2719.835M4	2850.724
11) l2	1260-3	5.645	6.013	491.0E6	628.5E6	2787.379	2829.570
12) l2	1260-4	5.859	6.183	1059.7E6	1325.6E6	2804.046M4	2912.290
13) l2	1260-5	6.059	6.431	770.3E6	855.0E6	2888.693	2866.324
	Sum 1260-1			3582.1E6	4227.1E6	13867.670	14169.585
	Average 1260-1					2773.534	2833.917
	Sum 1221-2			0	0	N.D.	N.D.
	Average 1221-2					0.000	0.000
	Sum 1254-2			0	0	N.D.	N.D.
	Average 1254-2					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\181204A\
Data File : 16181204a-01.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 Dec 2018 1:57 am
Operator : pest16:ht
Sample : WG1185229-1,42e,,+1016/1260 pp8980 (Sig #1); +1016/1260 pp8980 (Sig #2)
Misc : WG1185229,ical14982
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 04 02:11:05 2018
Quant Method : I:\Pest16\181204A\P16_pcb_08_09i_18_ugL_ICAL14982.m
Quant Title : pcb
QLast Update : Fri Nov 30 09:54:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

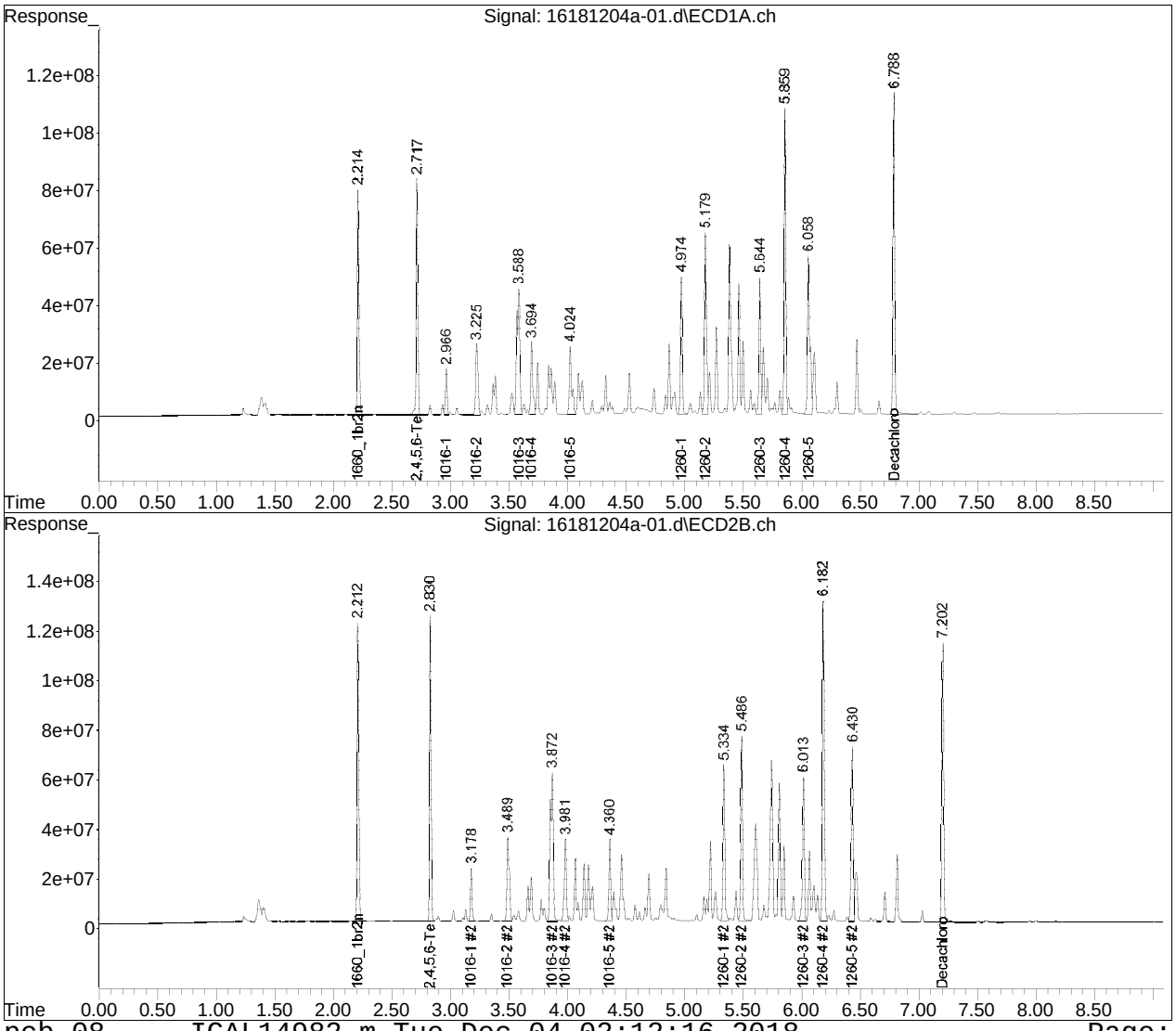
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : 1660 - 1660ation Report (QT Reviewed)

Data Path : I:\Pest16\181204A\
Data File : 16181204a-01.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 Dec 2018 1:57 am
Operator : pest16:ht
Sample : WG1185229-1,42e,,+1016/1260 pp8980 (Sig #1); +1016/1260 pp8980 (Si
Misc : WG1185229,ical14982
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 04 02:11:05 2018
Quant Method : I:\Pest16\181204A\P16_pcb_08_09i_18_ugL_ICAL14982.m
Quant Title : pcb
QLast Update : Fri Nov 30 09:54:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Evaluate Continuing Calibration Report

Data Path : I:\Pest12\181210A\
Data File : 12181210A-02.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 10 Dec 2018   2:04 pm
Operator : Pest12:aws
Sample   : wg1187642-1,42e,,+1016/1260 pp8980 (Sig #1); +1016/1260 pp8980 (Sig #2)
Misc   : wg1187642,ical15152
ALS Vial : 2   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Dec 10 17:02:10 2018
Quant Method : I:\Pest12\181210A\P12_pcb_10-13-18_ICAL15152_ugL_.m
Quant Title : pcb
QLast Update : Thu Dec 06 09:53:12 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	i	1660_1br2nb	250.000	250.000	0.0	74	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen	160.000	200.992	-25.6#	95	0.00
3	s	Decachlorobiphenyl	320.000	291.208	9.0	68	0.00
4	l1	1016-1	2500.000	2700.811	-8.0	82	0.00
5	l1	1016-2	2500.000	2760.758	-10.4	84	0.00
6	l1	1016-3	2500.000	2904.943	-16.2	88	0.00
7	l1	1016-4	2500.000	2868.072	-14.7	85	0.00
8	l1	1016-5	2500.000	2982.815	-19.3	91	0.00
9	l2	1260-2	2500.000	2817.788	-12.7	86	0.00
10	l2	1260-3	2500.000	2184.004	12.6	67	0.00
11	l2	1260-4	2500.000	2139.697	14.4	64	0.00
12	l2	1260-5	2500.000	2042.922	18.3	62	0.00
51	i	1660_1br2nb #2	250.000	250.000	0.0	51	0.00
52	s	2,4,5,6-Tetrachloro-m-xylen	160.000	192.203	-20.1#	63	0.00
53	s	Decachlorobiphenyl #2	320.000	222.489	30.5#	37	-0.01
54	l1	1016-1 #2	2500.000	2651.903	-6.1	54	0.00
55	l1	1016-2 #2	2500.000	2612.904	-4.5	55	0.00
56	l1	1016-3 #2	2500.000	2587.554	-3.5	55	0.00
57	l1	1016-4 #2	2500.000	2809.135	-12.4	59	0.00
58	l1	1016-5 #2	2500.000	2866.966	-14.7	58	0.00
59	l2	1260-2 #2	2500.000	2359.718	5.6	49	0.00
60	l2	1260-3 #2	2500.000	2114.004	15.4	43	0.00
61	l2	1260-4 #2	2500.000	1945.910	22.2#	41	0.00
62	l2	1260-5 #2	2500.000	1890.251	24.4#	40	-0.01

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\Pest12\181210A\
Data File : 12181210A-02.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 10 Dec 2018   2:04 pm
Operator : Pest12:aws
Sample   : wg1187642-1,42e,,+1016/1260 pp8980 (Sig #1); +1016/1260 pp8980 (Sig #2)
Misc   : wg1187642,ical15152
ALS Vial : 2   Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Dec 10 17:02:10 2018
Quant Method : I:\Pest12\181210A\P12_pcb_10-13-18_ICAL15152_ugL_.m
Quant Title : pcb
QLast Update : Thu Dec 06 09:53:12 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area% Dev(Min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181210A\
Data File : 12181210A-02.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Dec 2018 2:04 pm
Operator : Pest12:aws
Sample : wg1187642-1,42e,,+1016/1260 pp8980 (Sig #1); +1016/1260 pp8980 (Sig #2)
Misc : wg1187642,ical15152
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Dec 10 17:02:10 2018
Quant Method : I:\Pest12\181210A\P12_pcb_10-13-18_ICAL15152_ugL_.m
Quant Title : pcb
QLast Update : Thu Dec 06 09:53:12 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : 1660 - 1660

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	2.097	2.262	557.4E6	586.0E6	250.000M4	250.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.558	2.878	468.9E6	506.5E6	200.992	192.203M4
	Spiked Amount 500.000	Range 30 - 150		Recovery =		40.20%	38.44%
3) s	Decachlorobi	6.507	7.240	405.8E6	346.9E6	291.208M4	222.489M4
	Spiked Amount 500.000	Range 30 - 150		Recovery =		58.24%	44.50%
	Target Compounds						
4) l1	1016-1	2.781	3.234	110.4E6	119.9E6	2700.811M4	2651.903M4
5) l1	1016-2	3.013	3.551	244.6E6	266.3E6	2760.758M4	2612.904M4
6) l1	1016-3	3.342	3.936	516.5E6	549.1E6	2904.943M4	2587.554M3
7) l1	1016-4	3.439	4.048	212.3E6	221.5E6	2868.072M4	2809.135M4
8) l1	1016-5	3.748	4.430	233.9E6	171.0E6	2982.815M4	2866.966M4
	Sum 1016-1			1317.6E6	1327.7E6	14217.399	13528.462
	Average 1016-1					2843.480	2705.692
9) l2	1260-2	4.897	5.536	438.8E6	309.5E6	2817.788M2	2359.718M4
10) l2	1260-3	5.362	6.060	208.5E6	203.2E6	2184.004M2	2114.004M4
11) l2	1260-4	5.579	6.222	459.7E6	414.9E6	2139.697M2	1945.910M4
12) l2	1260-5	5.776	6.473	290.0E6	269.0E6	2042.922M2	1890.251M2

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181210A\
Data File : 12181210A-02.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Dec 2018 2:04 pm
Operator : Pest12:aws
Sample : wg1187642-1,42e,,+1016/1260 pp8980 (Sig #1); +1016/1260 pp8980 (Sig #2)
Misc : wg1187642,ical15152
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Dec 10 17:02:10 2018
Quant Method : I:\Pest12\181210A\P12_pcb_10-13-18_ICAL15152_ugL_.m
Quant Title : pcb
QLast Update : Thu Dec 06 09:53:12 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum 1260-2			1397.1E6	1196.6E6	9184.411	8309.883
Average 1260-2					2296.103	2077.471
Sum 1221-1			0	0	N.D.	N.D.
Average 1221-1					0.000	0.000
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\Pest12\181210A\
Data File : 12181210A-02.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Dec 2018 2:04 pm
Operator : Pest12:aws
Sample : wg1187642-1,42e,,+1016/1260 pp8980 (Sig #1); +1016/1260 pp8980 (Sig #2)
Misc : wg1187642,ical15152
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Dec 10 17:02:10 2018
Quant Method : I:\Pest12\181210A\P12_pcb_10-13-18_ICAL15152_ugL_.m
Quant Title : pcb
QLast Update : Thu Dec 06 09:53:12 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

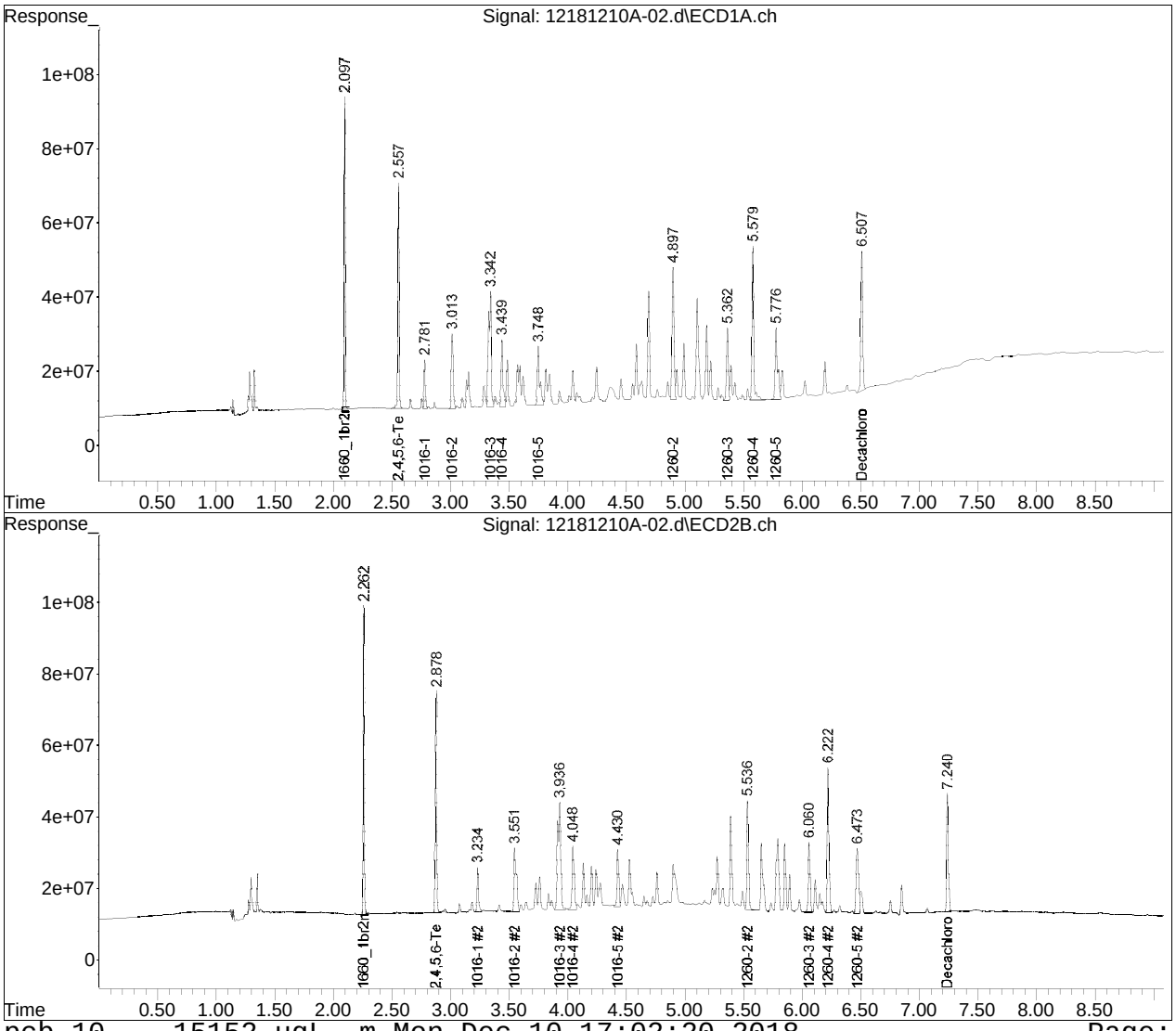
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : 1660 - 1660ation Report (QT Reviewed)

Data Path : I:\Pest12\181210A\
Data File : 12181210A-02.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 10 Dec 2018 2:04 pm
Operator : Pest12:aws
Sample : wg1187642-1,42e,,+1016/1260 pp8980 (Sig #1); +1016/1260 pp8980 (Si
Misc : wg1187642,ical15152
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events1.e
Integration File signal 2: events2.e
Quant Time: Dec 10 17:02:10 2018
Quant Method : I:\Pest12\181210A\P12_pcb_10-13-18_ICAL15152_ugL_.m
Quant Title : pcb
QLast Update : Thu Dec 06 09:53:12 2018
Response via : Initial Calibration
Integrator: ChemStation

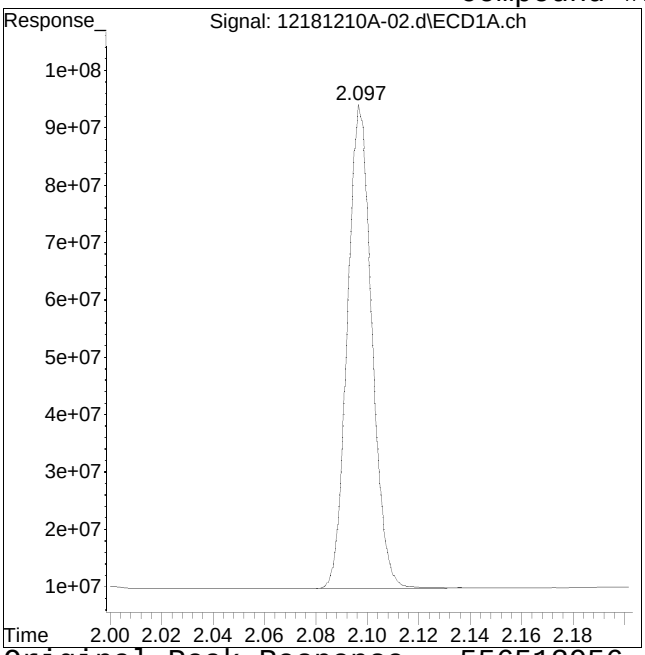
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

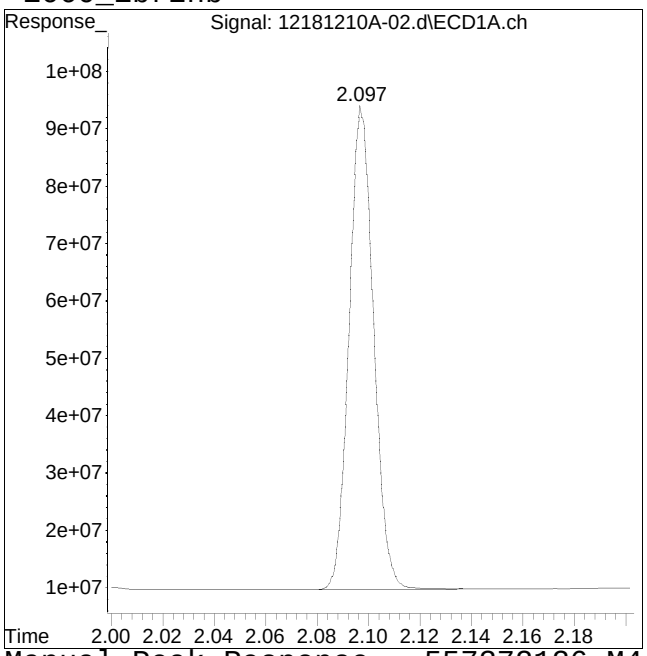


Manual Integration Report

Data Path : I:\Pest12\181210A\ QMethod : P12_pcb_10-13-18_ICAL151
Data File : 12181210A-02.d Operator : Pest12:aws
Date Inj'd : 12/10/2018 2:04 pm Instrument : Pest 12
Sample : wg1187642-1,42e,,+1016/126 Quant Date : 12/10/2018 2:58 pm

Compound #1: 1660_1br2nb



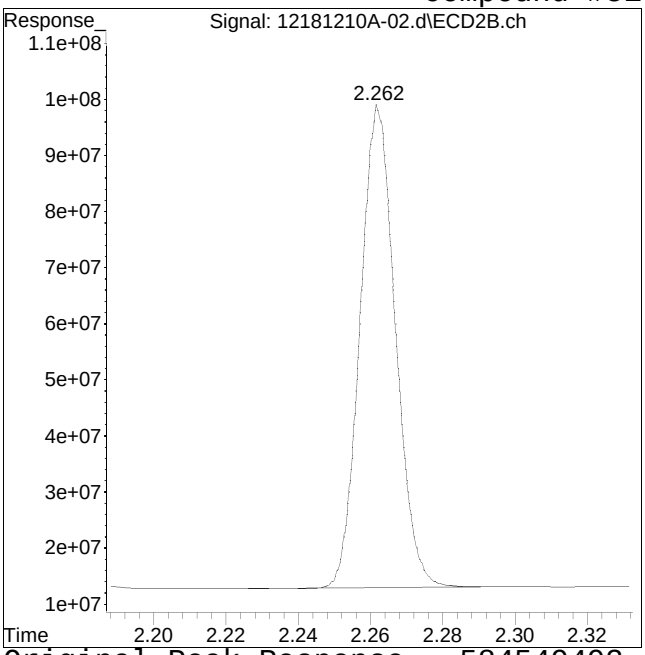


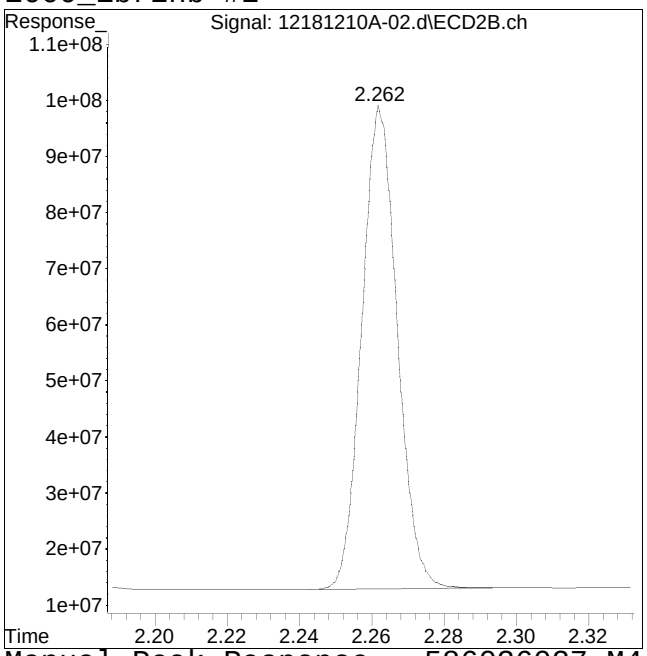
Original Peak Response = 556512956 Manual Peak Response = 557372126 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest12\181210A\ QMethod : P12_pcb_10-13-18_ICAL151
Data File : 12181210A-02.d Operator : Pest12:aws
Date Inj'd : 12/10/2018 2:04 pm Instrument : Pest 12
Sample : wg1187642-1,42e,,+1016/126 Quant Date : 12/10/2018 2:58 pm

Compound #51: 1660_1br2nb #2



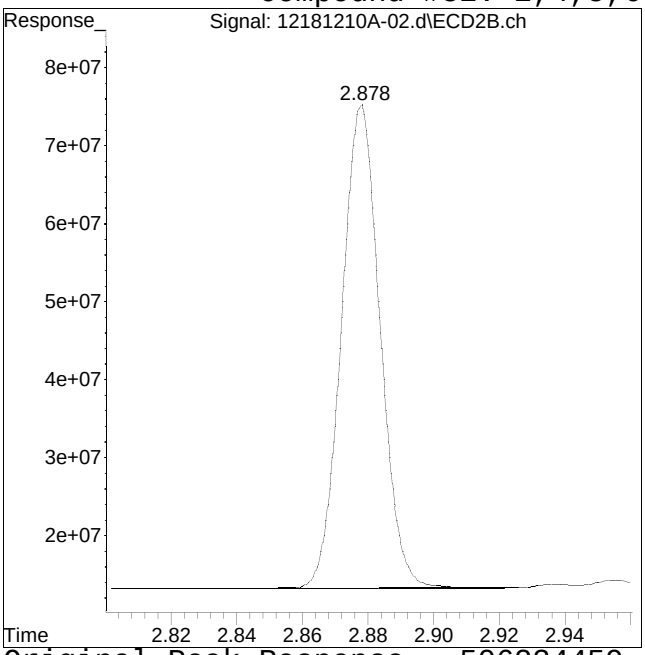


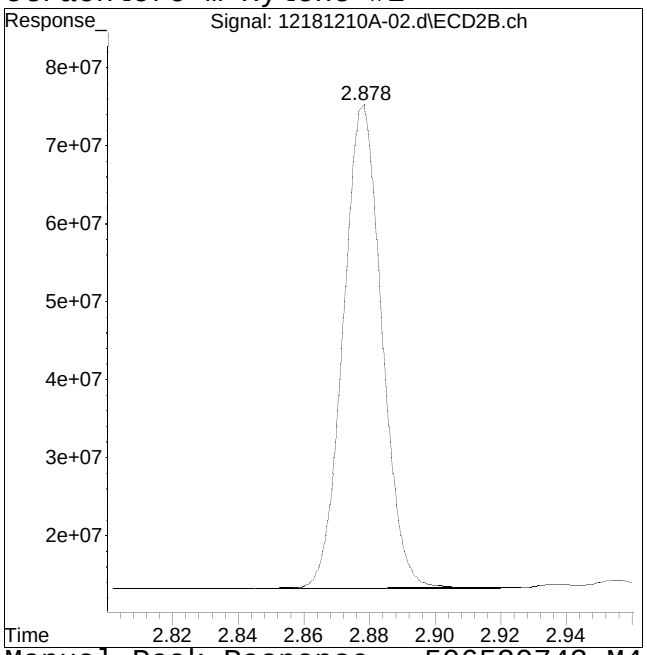
Original Peak Response = 584549493 Manual Peak Response = 586036027 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest12\181210A\ QMethod : P12_pcb_10-13-18_ICAL151
Data File : 12181210A-02.d Operator : Pest12:aws
Date Inj'd : 12/10/2018 2:04 pm Instrument : Pest 12
Sample : wg1187642-1,42e,,+1016/126 Quant Date : 12/10/2018 2:58 pm

Compound #52: 2,4,5,6-Tetrachloro-m-xylene #2



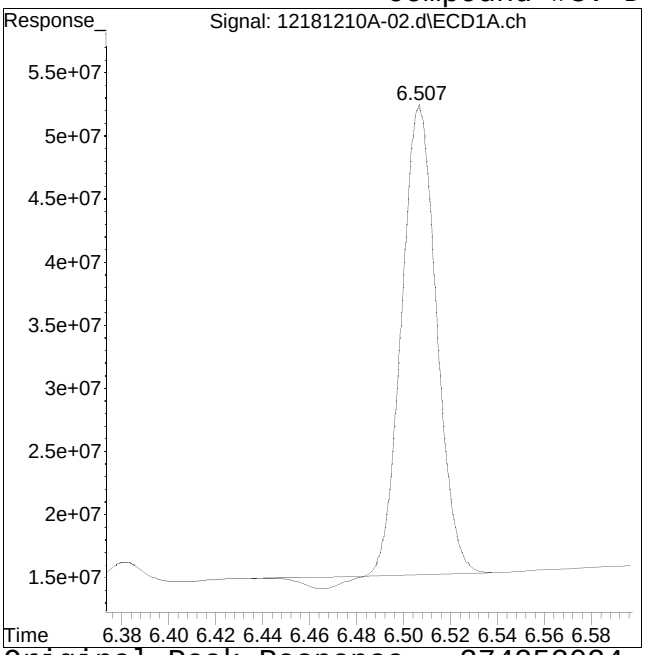


Original Peak Response = 506234459 Manual Peak Response = 506520743 M4
M4 = Poor automated baseline construction.

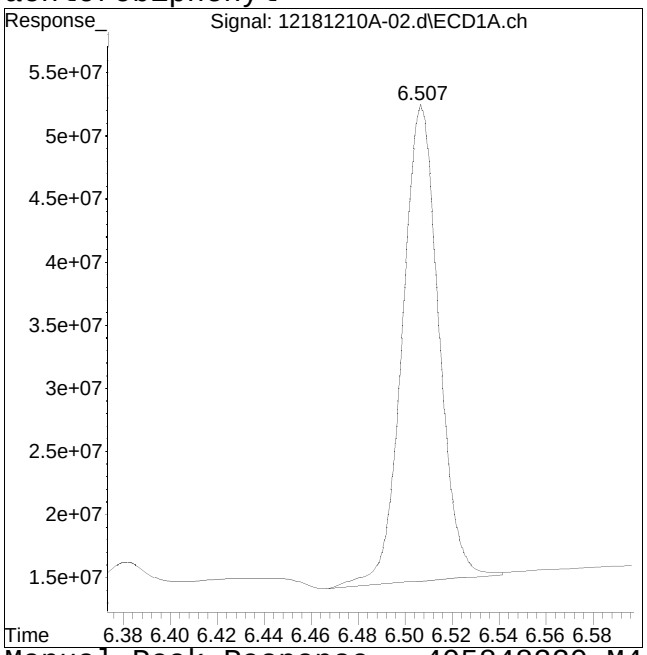
Manual Integration Report

Data Path : I:\Pest12\181210A\ QMethod : P12_pcb_10-13-18_ICAL151
Data File : 12181210A-02.d Operator : Pest12:aws
Date Inj'd : 12/10/2018 2:04 pm Instrument : Pest 12
Sample : wg1187642-1,42e,,+1016/126 Quant Date : 12/10/2018 2:58 pm

Compound #3: Decachlorobiphenyl



Original Peak Response = 374252024



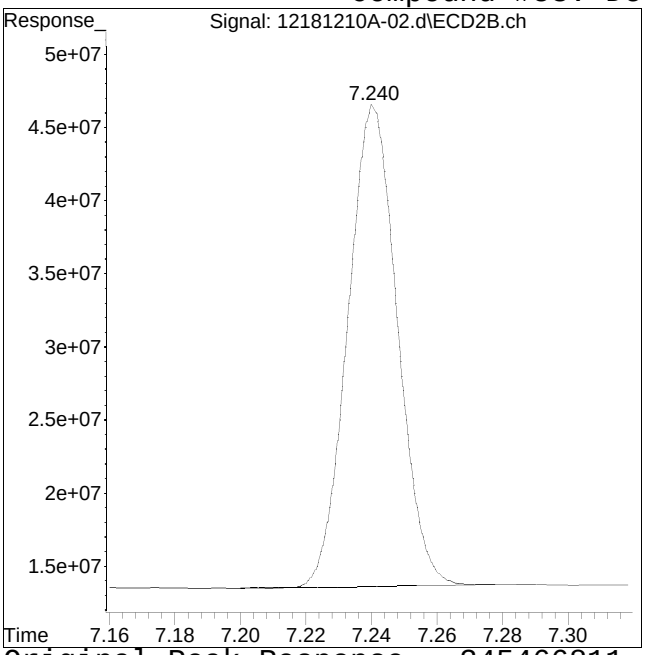
Manual Peak Response = 405848320 M4

M4 = Poor automated baseline construction.

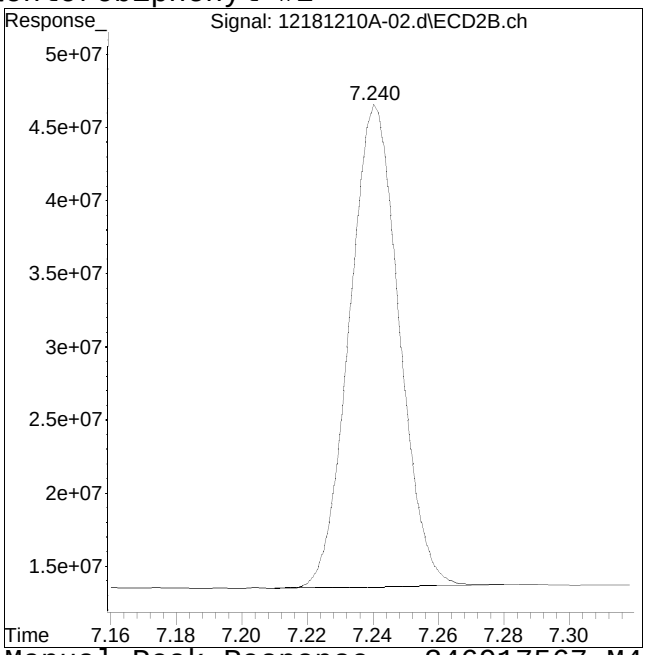
Manual Integration Report

Data Path : I:\Pest12\181210A\ QMethod : P12_pcb_10-13-18_ICAL151
Data File : 12181210A-02.d Operator : Pest12:aws
Date Inj'd : 12/10/2018 2:04 pm Instrument : Pest 12
Sample : wg1187642-1,42e,,+1016/126 Quant Date : 12/10/2018 2:58 pm

Compound #53: Decachlorobiphenyl #2



Original Peak Response = 345466811



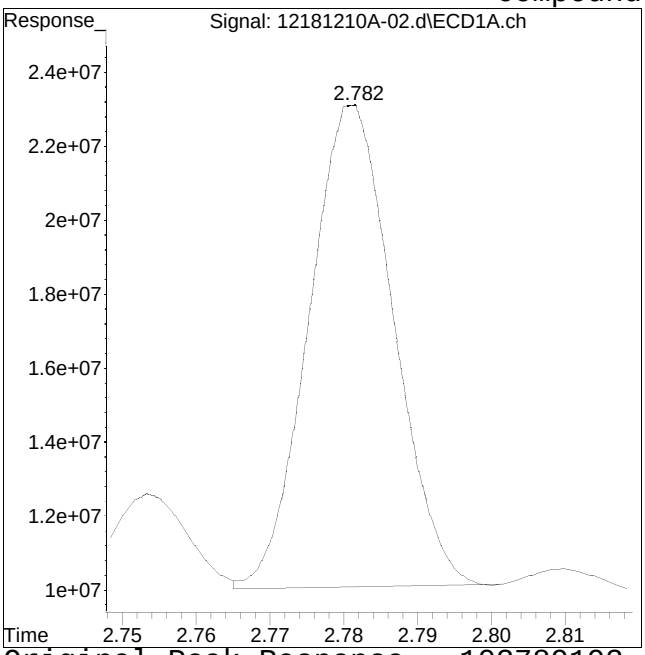
Manual Peak Response = 346917567 M4

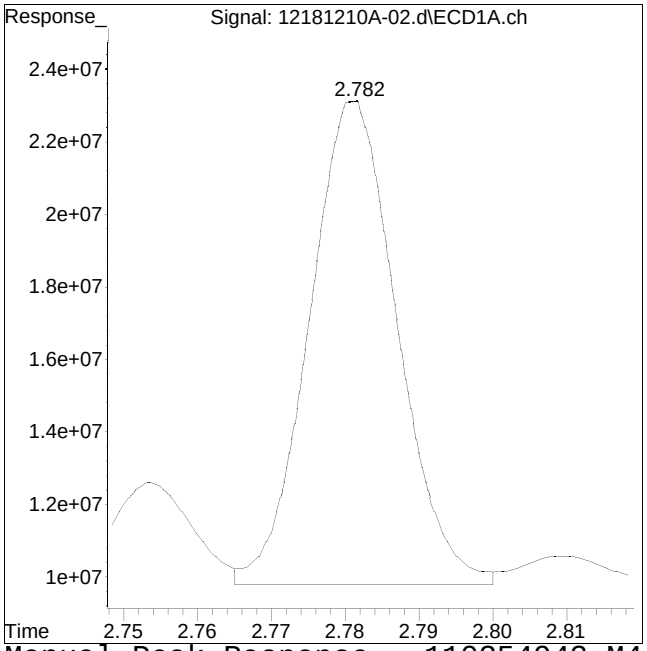
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest12\181210A\ QMethod : P12_pcb_10-13-18_ICAL151
Data File : 12181210A-02.d Operator : Pest12:aws
Date Inj'd : 12/10/2018 2:04 pm Instrument : Pest 12
Sample : wg1187642-1,42e,,+1016/126 Quant Date : 12/10/2018 2:58 pm

Compound #4: 1016-1



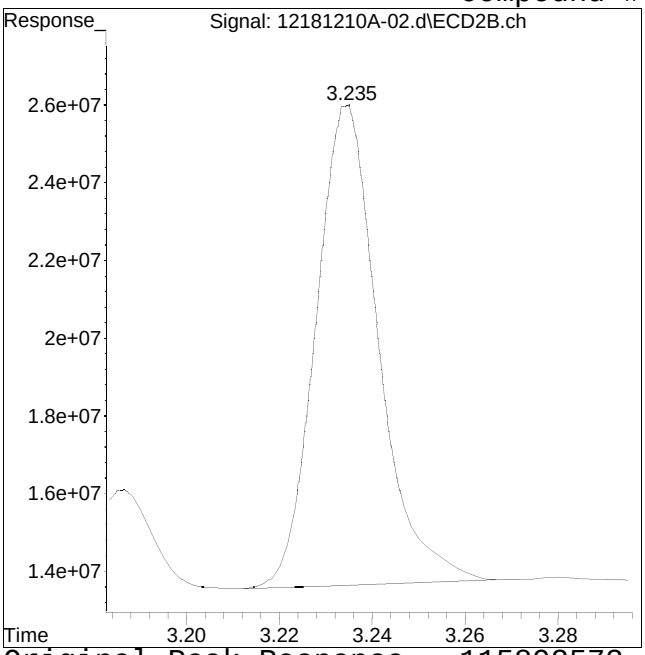


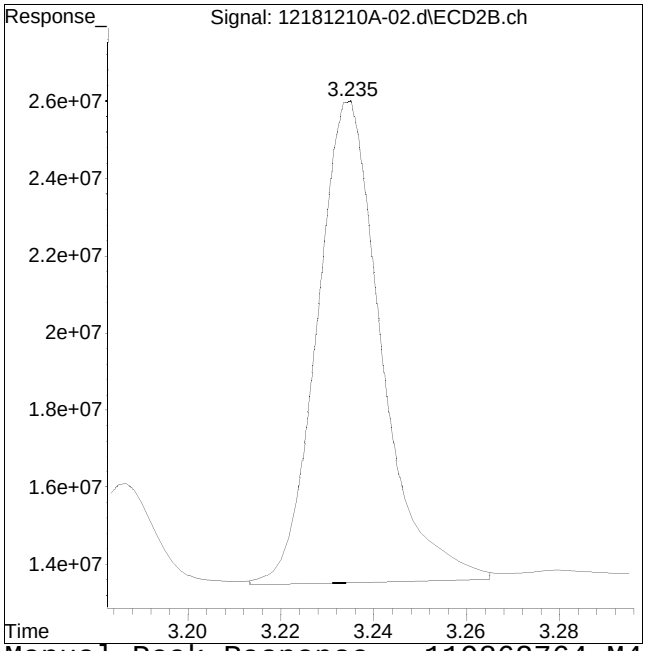
Original Peak Response = 103789193 Manual Peak Response = 110354943 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest12\181210A\ QMethod : P12_pcb_10-13-18_ICAL151
Data File : 12181210A-02.d Operator : Pest12:aws
Date Inj'd : 12/10/2018 2:04 pm Instrument : Pest 12
Sample : wg1187642-1,42e,,+1016/126 Quant Date : 12/10/2018 2:58 pm

Compound #54: 1016-1 #2



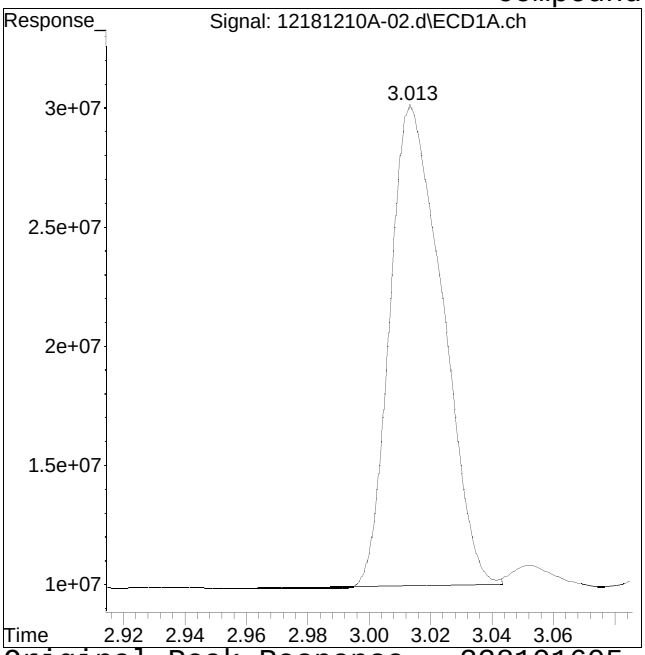


Original Peak Response = 115892573 Manual Peak Response = 119862764 M4
M4 = Poor automated baseline construction.

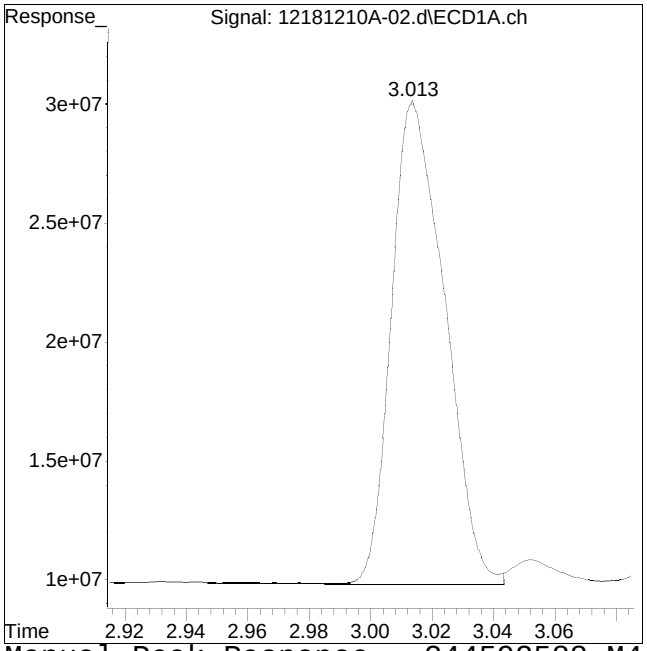
Manual Integration Report

Data Path : I:\Pest12\181210A\ QMethod : P12_pcb_10-13-18_ICAL151
Data File : 12181210A-02.d Operator : Pest12:aws
Date Inj'd : 12/10/2018 2:04 pm Instrument : Pest 12
Sample : wg1187642-1,42e,,+1016/126 Quant Date : 12/10/2018 2:58 pm

Compound #5: 1016-2



Original Peak Response = 238101605



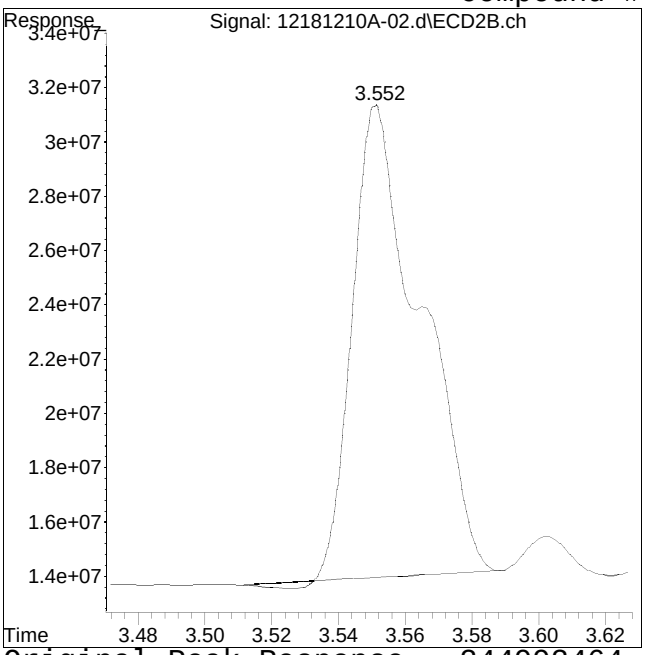
Manual Peak Response = 244592588 M4

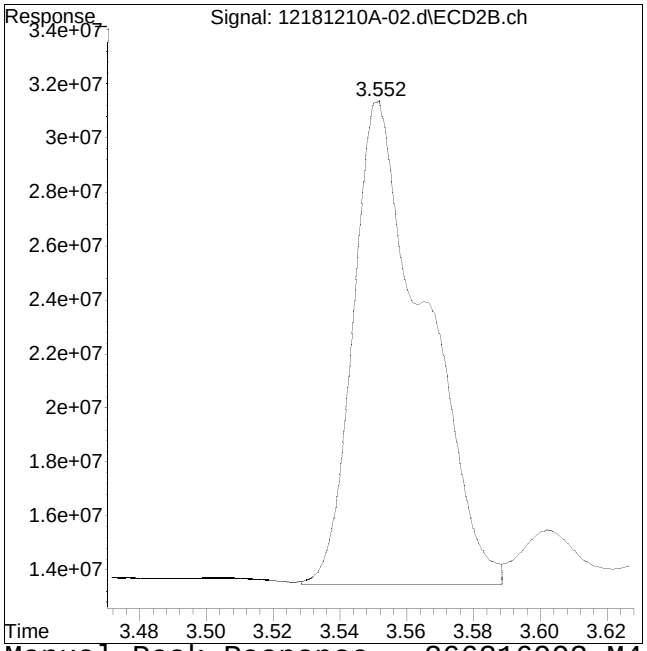
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest12\181210A\ QMethod : P12_pcb_10-13-18_ICAL151
Data File : 12181210A-02.d Operator : Pest12:aws
Date Inj'd : 12/10/2018 2:04 pm Instrument : Pest 12
Sample : wg1187642-1,42e,,+1016/126 Quant Date : 12/10/2018 2:58 pm

Compound #55: 1016-2 #2



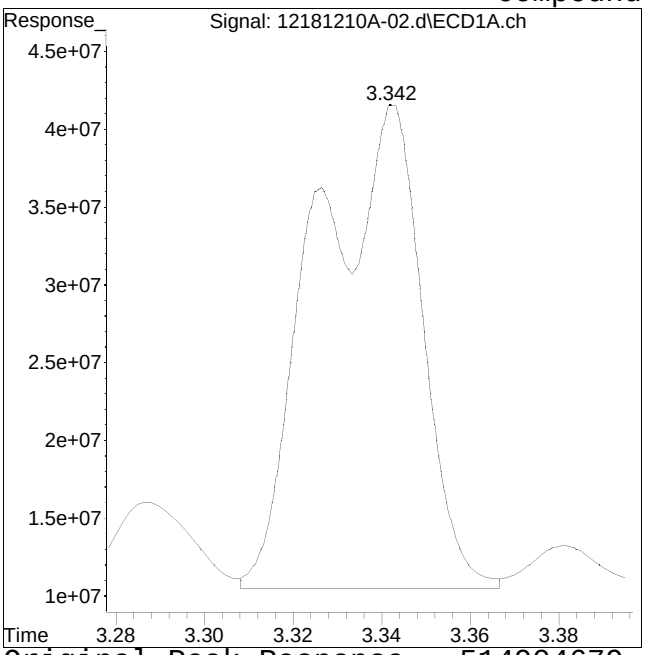


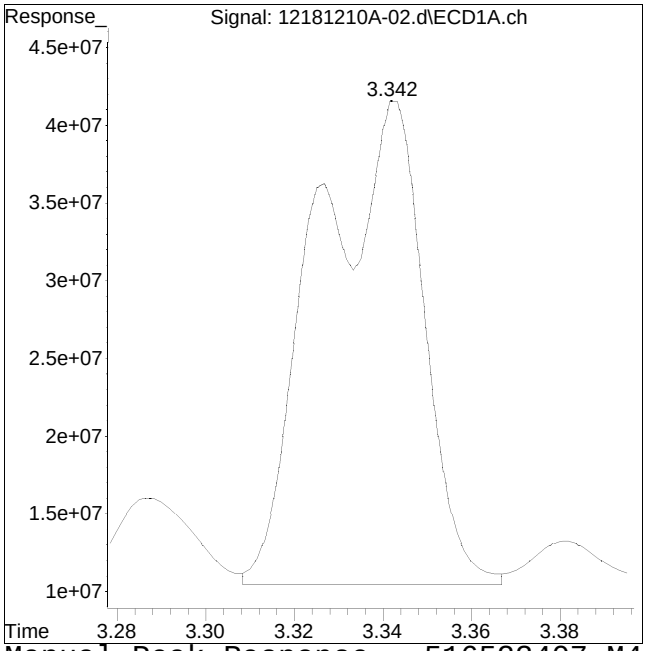
Original Peak Response = 244992464 Manual Peak Response = 266316993 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest12\181210A\ QMethod : P12_pcb_10-13-18_ICAL151
Data File : 12181210A-02.d Operator : Pest12:aws
Date Inj'd : 12/10/2018 2:04 pm Instrument : Pest 12
Sample : wg1187642-1,42e,,+1016/126 Quant Date : 12/10/2018 2:58 pm

Compound #6: 1016-3



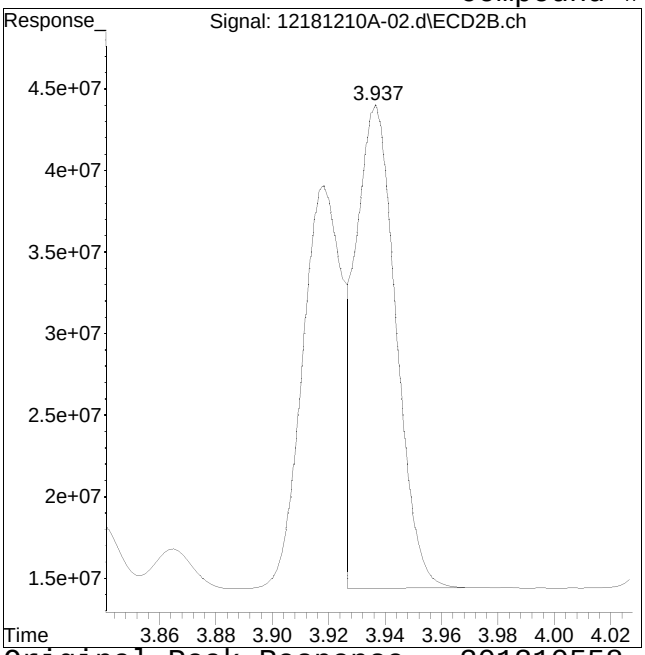


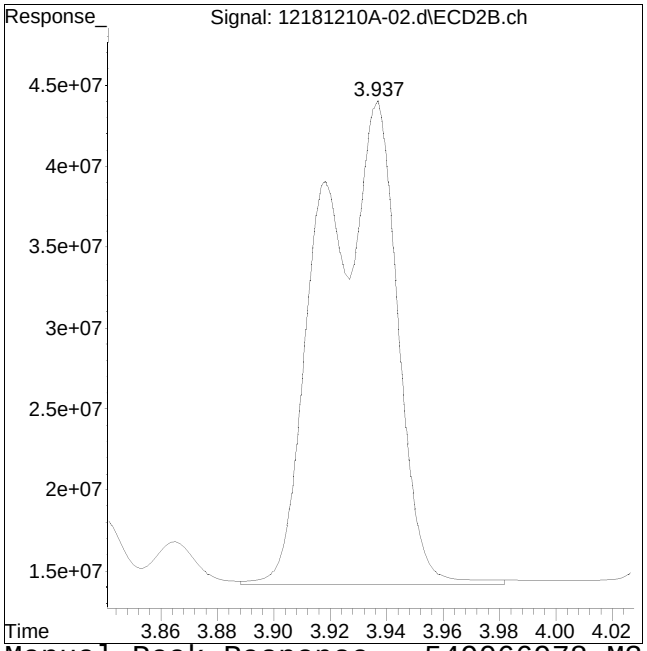
Original Peak Response = 514904679 Manual Peak Response = 516523407 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest12\181210A\ QMethod : P12_pcb_10-13-18_ICAL151
Data File : 12181210A-02.d Operator : Pest12:aws
Date Inj'd : 12/10/2018 2:04 pm Instrument : Pest 12
Sample : wg1187642-1,42e,,+1016/126 Quant Date : 12/10/2018 2:58 pm

Compound #56: 1016-3 #2



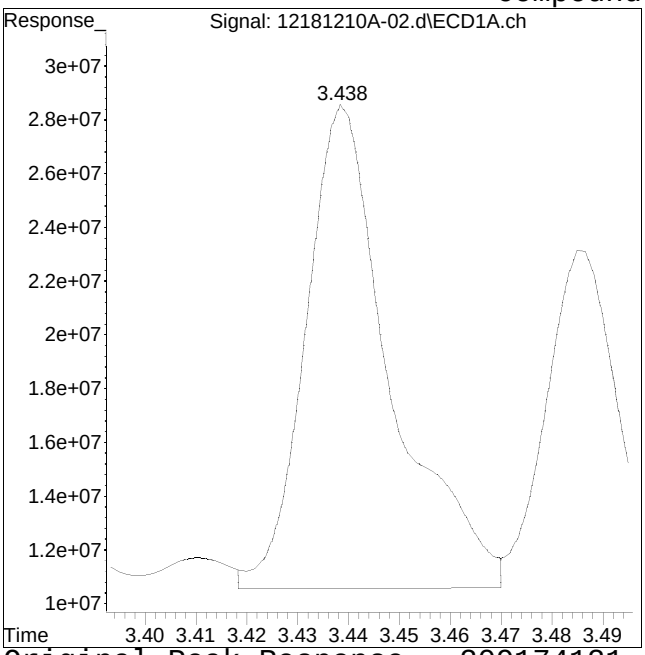


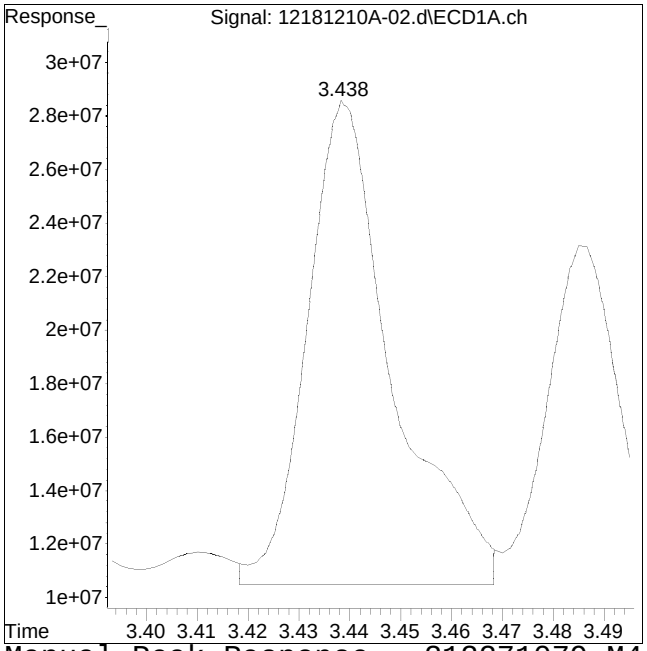
Original Peak Response = 301310558 Manual Peak Response = 549066978 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : I:\Pest12\181210A\ QMethod : P12_pcb_10-13-18_ICAL151
Data File : 12181210A-02.d Operator : Pest12:aws
Date Inj'd : 12/10/2018 2:04 pm Instrument : Pest 12
Sample : wg1187642-1,42e,,+1016/126 Quant Date : 12/10/2018 2:58 pm

Compound #7: 1016-4



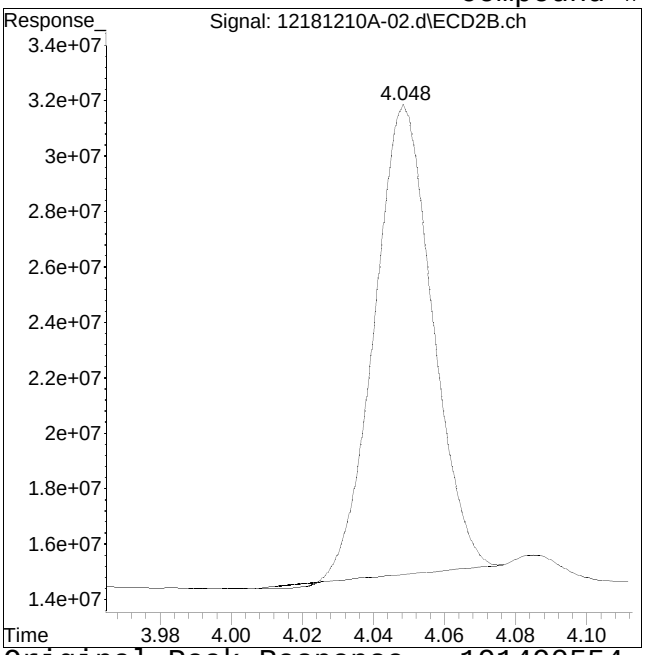


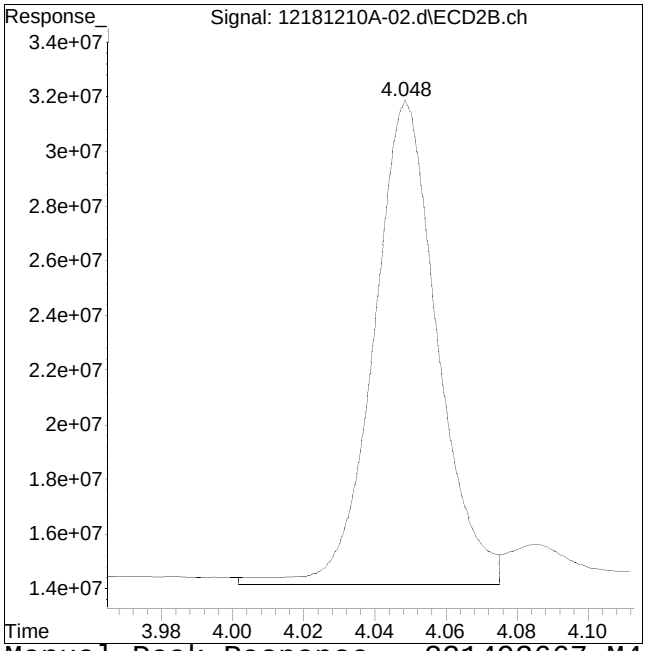
Original Peak Response = 209174121 Manual Peak Response = 212271079 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest12\181210A\ QMethod : P12_pcb_10-13-18_ICAL151
Data File : 12181210A-02.d Operator : Pest12:aws
Date Inj'd : 12/10/2018 2:04 pm Instrument : Pest 12
Sample : wg1187642-1,42e,,+1016/126 Quant Date : 12/10/2018 2:58 pm

Compound #57: 1016-4 #2



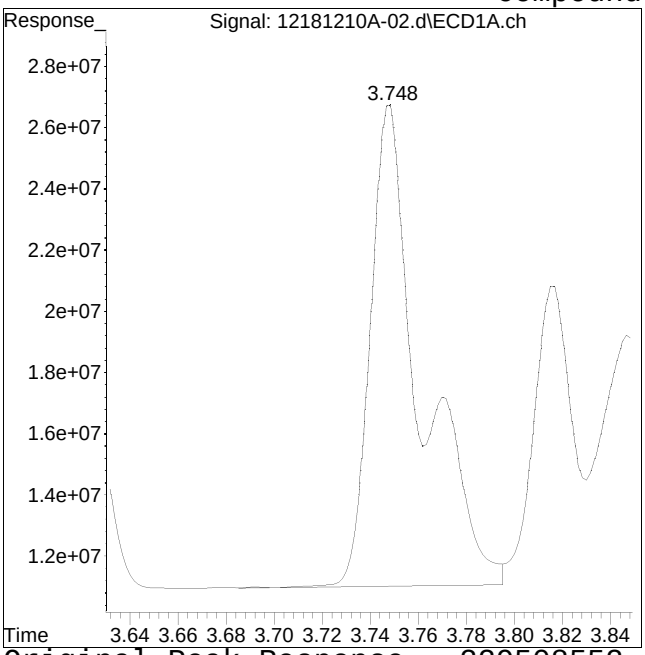


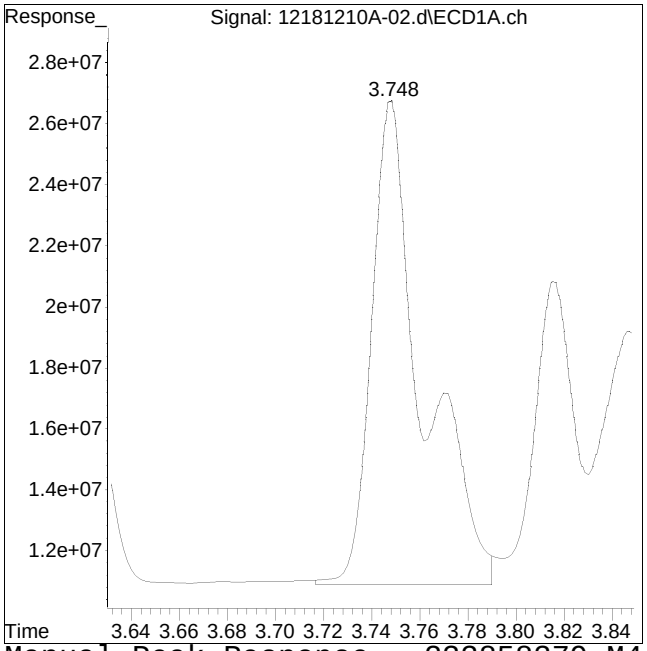
Original Peak Response = 191490554 Manual Peak Response = 221493667 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest12\181210A\ QMethod : P12_pcb_10-13-18_ICAL151
Data File : 12181210A-02.d Operator : Pest12:aws
Date Inj'd : 12/10/2018 2:04 pm Instrument : Pest 12
Sample : wg1187642-1,42e,,+1016/126 Quant Date : 12/10/2018 2:58 pm

Compound #8: 1016-5



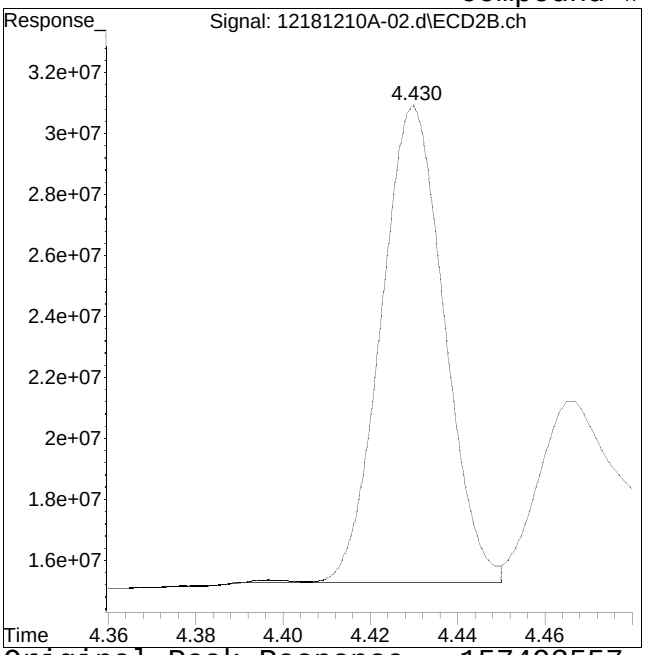


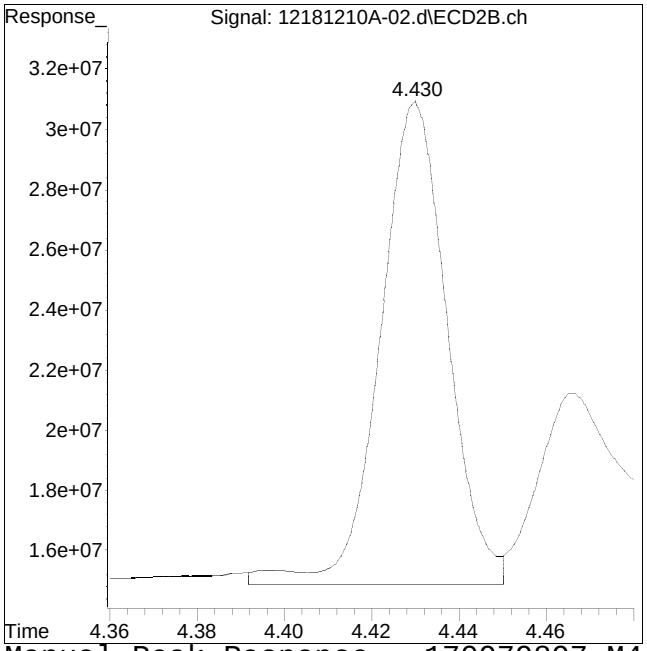
Original Peak Response = 229508552 Manual Peak Response = 233858379 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest12\181210A\ QMethod : P12_pcb_10-13-18_ICAL151
Data File : 12181210A-02.d Operator : Pest12:aws
Date Inj'd : 12/10/2018 2:04 pm Instrument : Pest 12
Sample : wg1187642-1,42e,,+1016/126 Quant Date : 12/10/2018 2:58 pm

Compound #58: 1016-5 #2



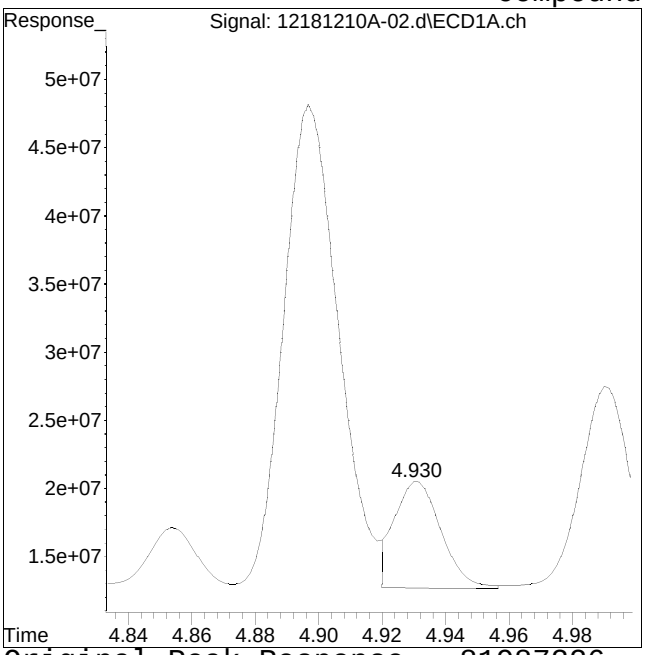


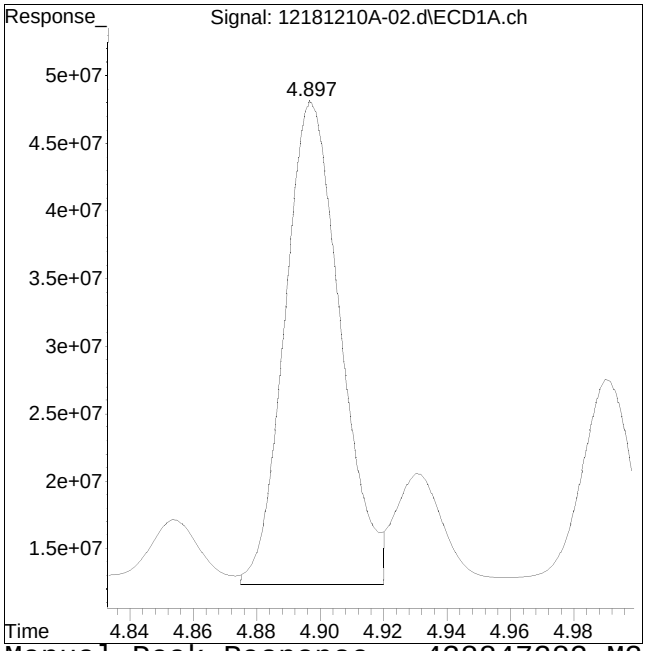
Original Peak Response = 157493557 Manual Peak Response = 170979897 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest12\181210A\ QMethod : P12_pcb_10-13-18_ICAL151
Data File : 12181210A-02.d Operator : Pest12:aws
Date Inj'd : 12/10/2018 2:04 pm Instrument : Pest 12
Sample : wg1187642-1,42e,,+1016/126 Quant Date : 12/10/2018 2:58 pm

Compound #9: 1260-2



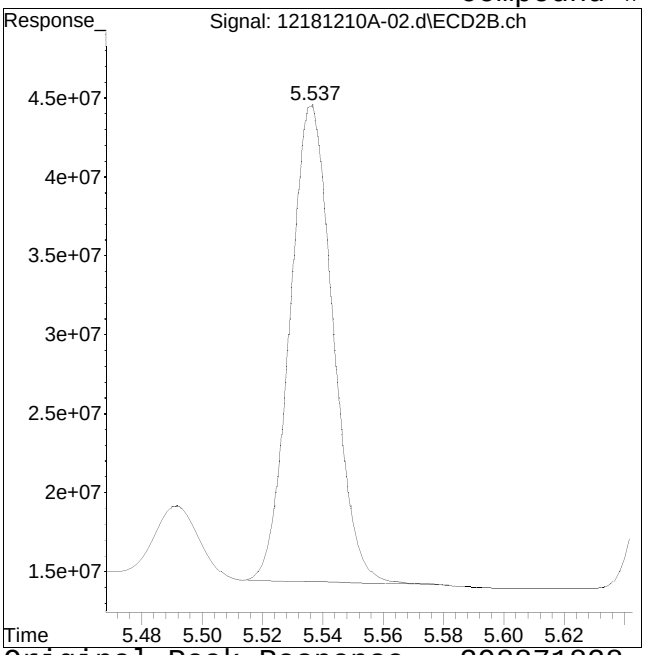


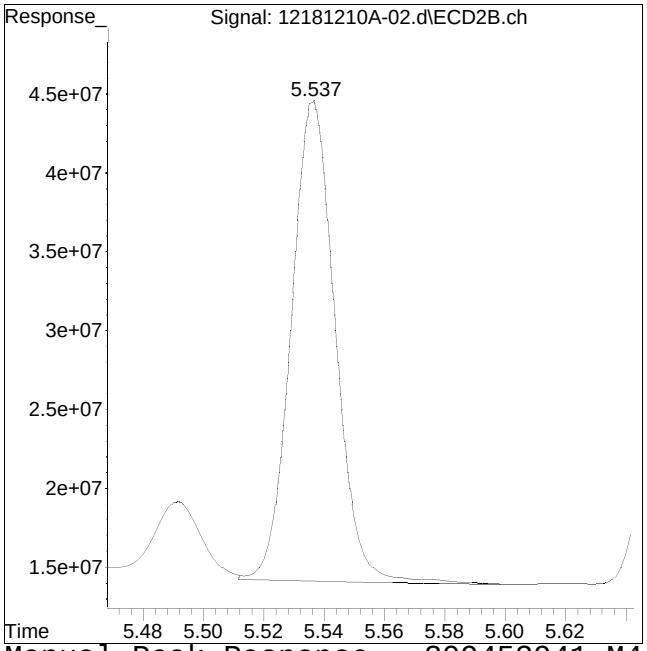
Original Peak Response = 81987226 Manual Peak Response = 438847283 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\Pest12\181210A\ QMethod : P12_pcb_10-13-18_ICAL151
Data File : 12181210A-02.d Operator : Pest12:aws
Date Inj'd : 12/10/2018 2:04 pm Instrument : Pest 12
Sample : wg1187642-1,42e,,+1016/126 Quant Date : 12/10/2018 2:58 pm

Compound #59: 1260-2 #2



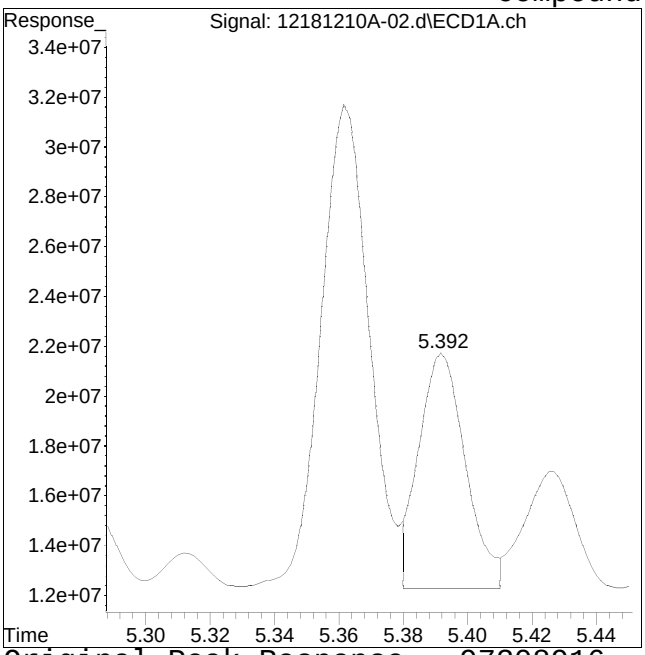


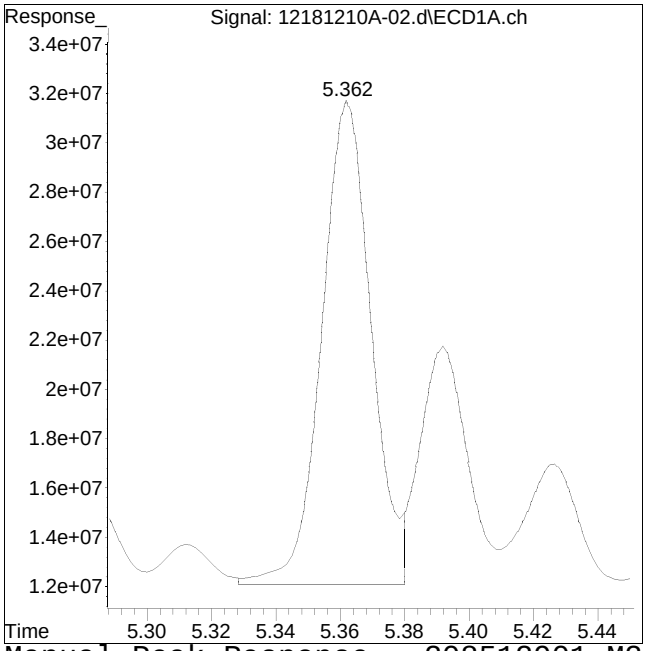
Original Peak Response = 298871828 Manual Peak Response = 309453941 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest12\181210A\ QMethod : P12_pcb_10-13-18_ICAL151
Data File : 12181210A-02.d Operator : Pest12:aws
Date Inj'd : 12/10/2018 2:04 pm Instrument : Pest 12
Sample : wg1187642-1,42e,,+1016/126 Quant Date : 12/10/2018 2:58 pm

Compound #10: 1260-3



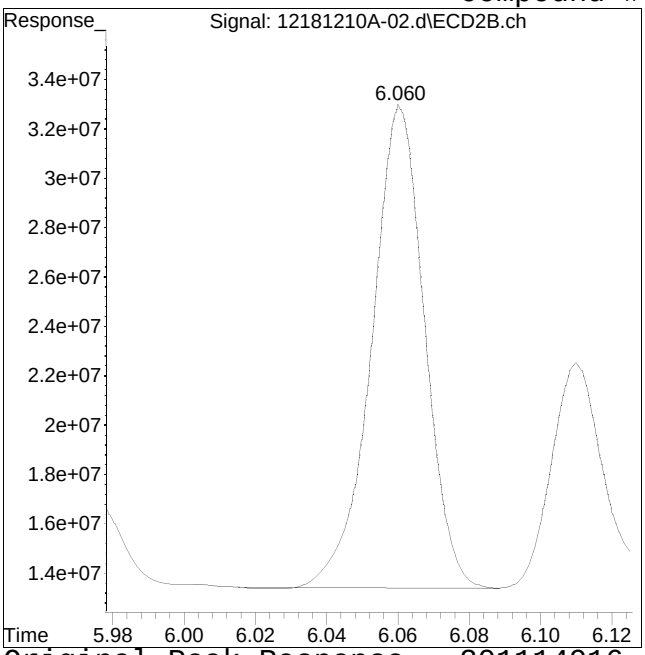


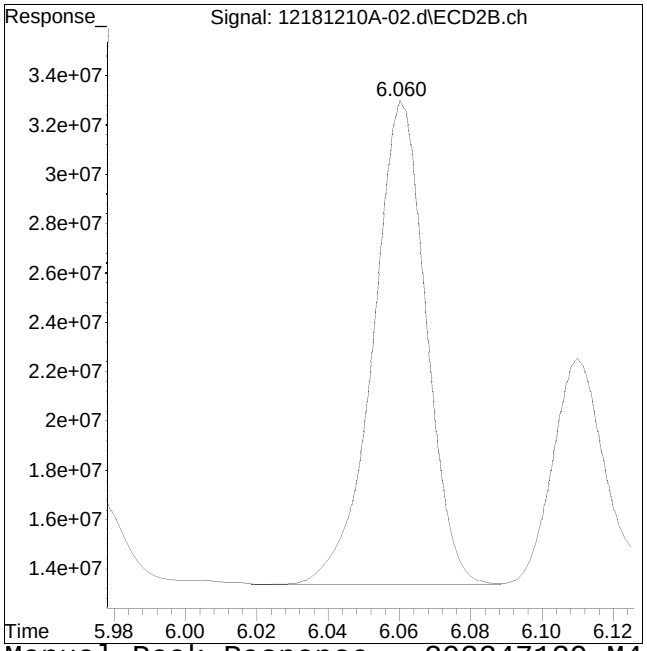
Original Peak Response = 97308916 Manual Peak Response = 208512901 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\Pest12\181210A\ QMethod : P12_pcb_10-13-18_ICAL151
Data File : 12181210A-02.d Operator : Pest12:aws
Date Inj'd : 12/10/2018 2:04 pm Instrument : Pest 12
Sample : wg1187642-1,42e,,+1016/126 Quant Date : 12/10/2018 2:58 pm

Compound #60: 1260-3 #2



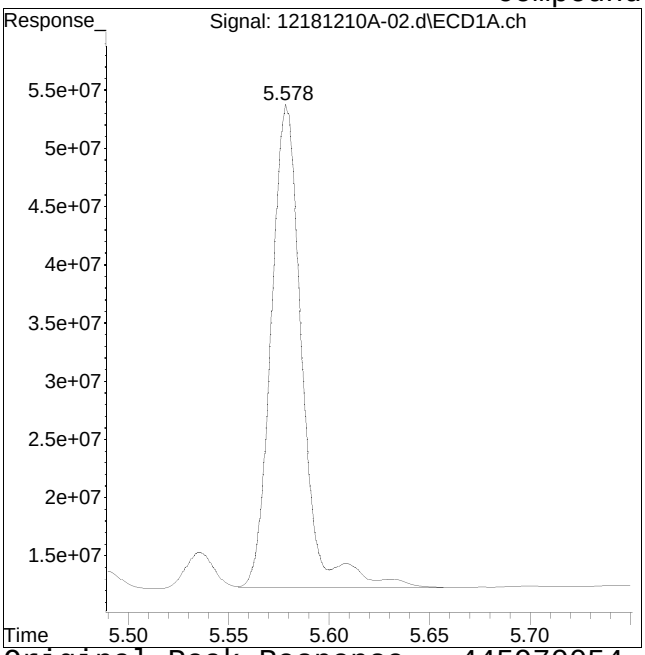


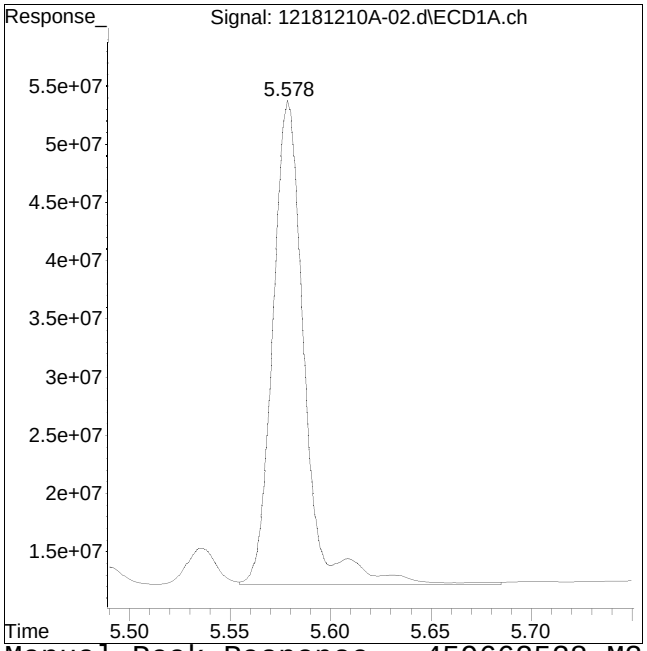
Original Peak Response = 201114916 Manual Peak Response = 203247139 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest12\181210A\ QMethod : P12_pcb_10-13-18_ICAL151
Data File : 12181210A-02.d Operator : Pest12:aws
Date Inj'd : 12/10/2018 2:04 pm Instrument : Pest 12
Sample : wg1187642-1,42e,,+1016/126 Quant Date : 12/10/2018 2:58 pm

Compound #11: 1260-4



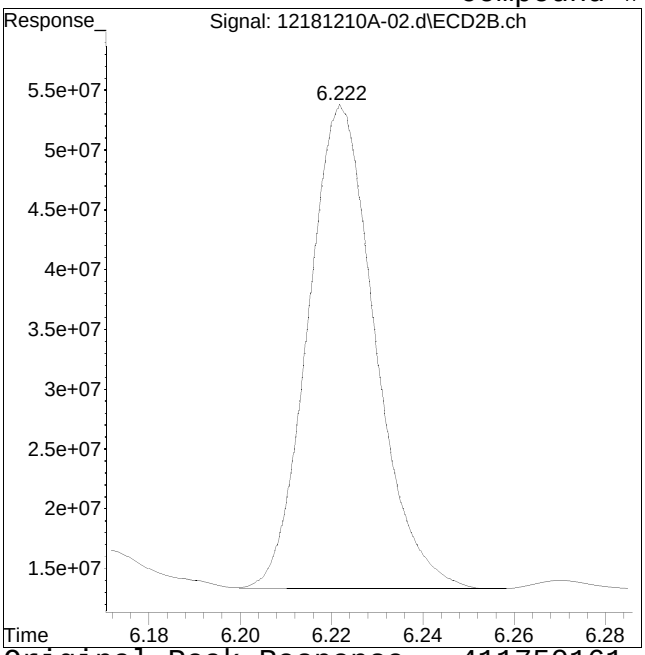


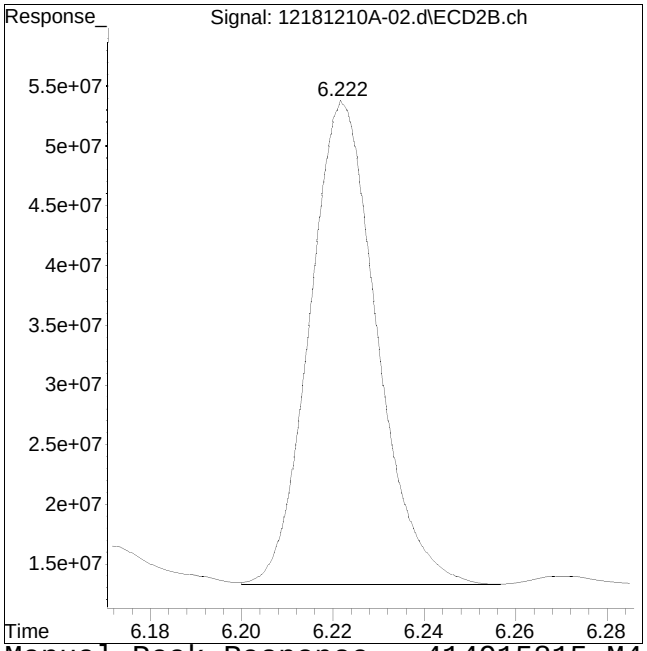
Original Peak Response = 445970054 Manual Peak Response = 459662528 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\Pest12\181210A\ QMethod : P12_pcb_10-13-18_ICAL151
Data File : 12181210A-02.d Operator : Pest12:aws
Date Inj'd : 12/10/2018 2:04 pm Instrument : Pest 12
Sample : wg1187642-1,42e,,+1016/126 Quant Date : 12/10/2018 2:58 pm

Compound #61: 1260-4 #2



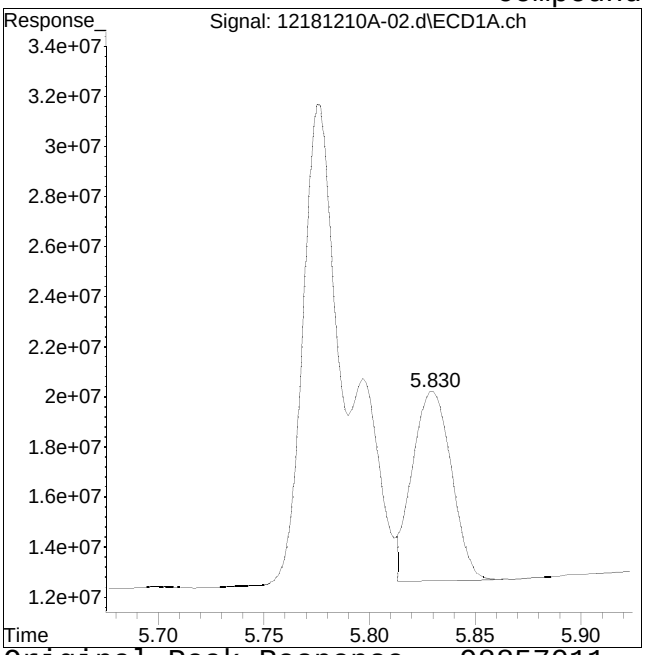


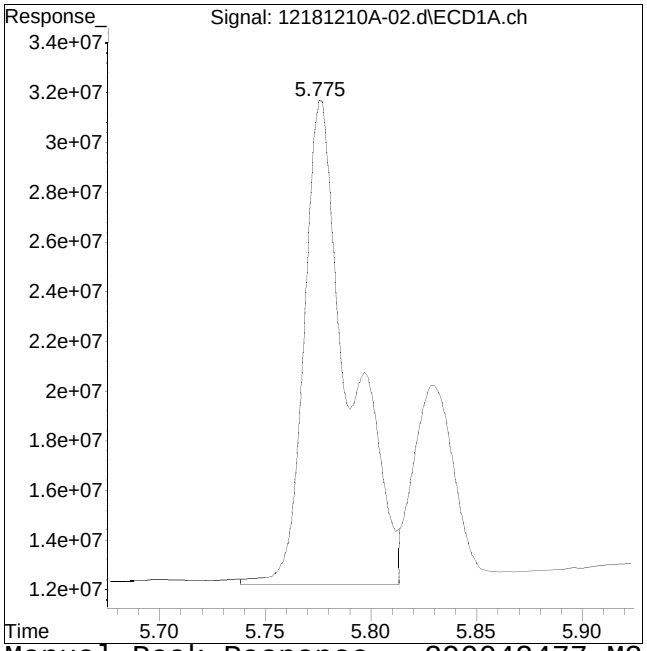
Original Peak Response = 411750161 Manual Peak Response = 414915815 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest12\181210A\ QMethod : P12_pcb_10-13-18_ICAL151
Data File : 12181210A-02.d Operator : Pest12:aws
Date Inj'd : 12/10/2018 2:04 pm Instrument : Pest 12
Sample : wg1187642-1,42e,,+1016/126 Quant Date : 12/10/2018 2:58 pm

Compound #12: 1260-5



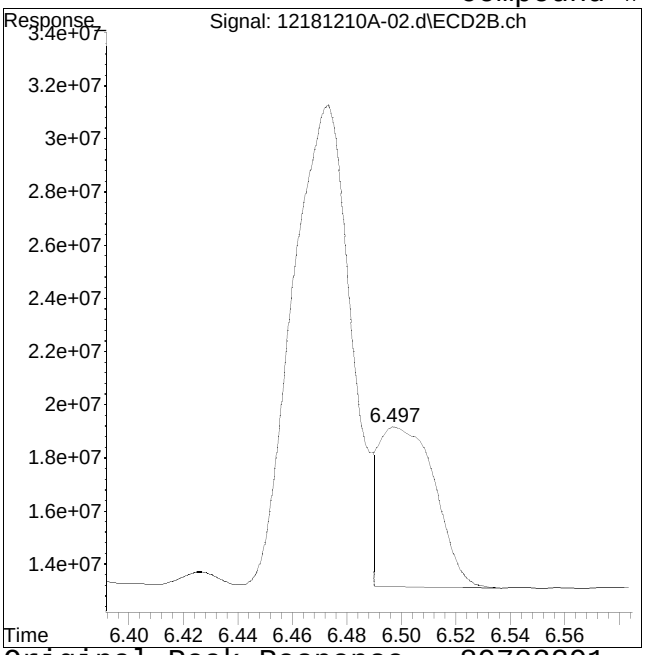


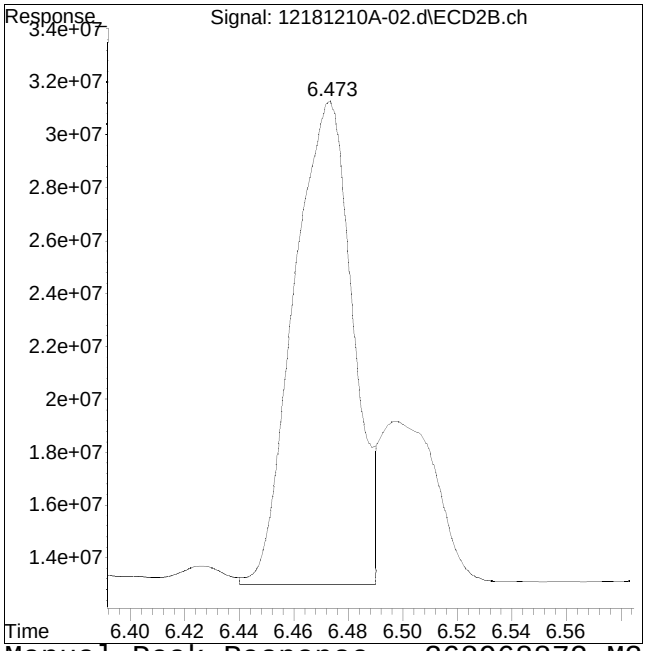
Original Peak Response = 98857011 Manual Peak Response = 290042477 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\Pest12\181210A\ QMethod : P12_pcb_10-13-18_ICAL151
Data File : 12181210A-02.d Operator : Pest12:aws
Date Inj'd : 12/10/2018 2:04 pm Instrument : Pest 12
Sample : wg1187642-1,42e,,+1016/126 Quant Date : 12/10/2018 2:58 pm

Compound #62: 1260-5 #2





Original Peak Response = 89702291 Manual Peak Response = 268968872 M2
M2 = Peak not found by automatic integration algorithm.

RT Shift Summary

GC Organics Indentification Summary
Form 10
Multicomponent Analytes

Client	: CHA Companies		**Lab Number**	: L1849060	
Project Name	: 700 SMITH BLVD		**Project Number**	: 29852.1202.44000	
Lab Sample ID	: L1849060-01				
Client ID	: CB-05				
Date Analyzed	(1) : 12/04/18 04:14		**Date Analyzed**	(2) : 12/04/18 04:14	
Instrument ID	(1) : PEST16		**Instrument ID**	(2) : PEST16	
GC Column	(1) : CLP-Pesticide		**GC Column**	(2) : CLP-PesticideII	

Analyte	Peak	RT	RT Window From	RT Window To	Concentration	Mean Concentration	%RPD
AROCLOR 1254	1	4.53	-0.05	0.05	1910		
	2	4.84	-0.05	0.05	2290		
COLUMN 1	3	5.05	-0.05	0.05	1780		
	4	0.00	-0.05	0.05	0.		
	5	0.00	0.00	0.00		2000	
	1	4.85	-0.05	0.05	1950		
	2	5.20	-0.05	0.05	2280		
COLUMN 2	3	5.36	-0.05	0.05	1940		
	4	0.00	-0.05	0.05	0.		
	5	0.00	0.00	0.00		2060	3
AROCLOR 1260	1	0.00	4.92	5.02	0.		
	2	0.00	5.13	5.23	0.		
COLUMN 1	3	5.65	5.59	5.69	1230		
	4	5.86	5.81	5.91	1230		
	5	6.06	6.01	6.11	1440	1300	
	1	0.00	5.28	5.38	0.		
	2	0.00	5.44	5.54	0.		
COLUMN 2	3	6.02	5.96	6.06	1200		
	4	6.19	6.13	6.23	1570		
	5	6.44	6.38	6.48	1730	1500	14

GC Organics Indentification Summary
Form 10
Multicomponent Analytes

Client	: CHA Companies		**Lab Number**	: L1849060	
Project Name	: 700 SMITH BLVD		**Project Number**	: 29852.1202.44000	
Lab Sample ID	: L1849060-02D				
Client ID	: CB-02				
Date Analyzed	(1) : 12/10/18 17:42		**Date Analyzed**	(2) : 12/10/18 17:42	
Instrument ID	(1) : PEST12		**Instrument ID**	(2) : PEST12	
GC Column	(1) : CLP-Pesticide		**GC Column**	(2) : CLP-PesticideII	

			RT Window			Mean	
Analyte	**Peak**	**RT**	**From**	**To**	**Concentration**	**Concentration**	**%RPD**
AROCLOR 1254	1	4.07	-0.05	0.05	4360		
	2	4.27	-0.05	0.05	5440		
COLUMN 1	3	4.58	-0.05	0.05	4840		
	4	4.79	-0.05	0.05	4000		
	5	0.00	-0.05	0.05	0.	4660	
	1	4.78	-0.05	0.05	5780		
	2	4.92	-0.05	0.05	4640		
COLUMN 2	3	5.27	-0.05	0.05	4160		
	4	5.43	-0.05	0.05	3500		
	5	0.00	-0.05	0.05	0.	4520	3
AROCLOR 1260	1	0.00	4.85	4.95	0.		
	2	5.38	5.31	5.41	2040		
COLUMN 1	3	5.60	5.53	5.63	1900		
	4	5.80	5.73	5.83	2300		
	5	0.00	0.00	0.00		2080	
	1	0.00	5.49	5.59	0.		
	2	6.09	6.01	6.11	1910		
COLUMN 2	3	6.25	6.17	6.27	1910		
	4	6.52	6.42	6.52	2000		
	5	0.00	0.00	0.00		1940	7

GC Organics Indentification Summary
Form 10
Multicomponent Analytes

Client	: CHA Companies		**Lab Number**	: L1849060	
Project Name	: 700 SMITH BLVD		**Project Number**	: 29852.1202.44000	
Lab Sample ID	: L1849060-03				
Client ID	: CB-03				
Date Analyzed	(1) : 12/04/18 08:03		**Date Analyzed**	(2) : 12/04/18 08:03	
Instrument ID	(1) : PEST7		**Instrument ID**	(2) : PEST7	
GC Column	(1) : CLP-Pesticide		**GC Column**	(2) : CLP-PesticideII	

Analyte	Peak	RT	RT Window From	RT Window To	Concentration	Mean Concentration	%RPD
AROCLOR 1254	1	3.87	-0.05	0.05	1190		
	2	0.00	-0.05	0.05	0.		
COLUMN 1	3	4.39	-0.05	0.05	1870		
	4	4.61	-0.05	0.05	2010		
	5	0.00	-0.05	0.05	0.	1690	
	1	0.00	-0.05	0.05	0.		
	2	4.50	-0.05	0.05	1780		
COLUMN 2	3	4.85	-0.05	0.05	2060		
	4	5.02	-0.05	0.05	2320		
	5	0.00	-0.05	0.05	0.	2050	19
AROCLOR 1260	1	0.00	4.48	4.58	0.		
	2	0.00	4.69	4.79	0.		
COLUMN 1	3	5.22	5.16	5.26	1260		
	4	5.44	5.38	5.48	1220		
	5	5.64	5.57	5.67	1540	1340	
	1	0.00	4.94	5.04	0.		
	2	0.00	5.09	5.19	0.		
COLUMN 2	3	5.67	5.61	5.71	1270		
	4	5.84	5.78	5.88	1730		
	5	6.09	6.03	6.13	1770	1590	17
AROCLOR 1242	1	2.85	-0.05	0.05	513.		
	2	3.17	-0.05	0.05	1240		
COLUMN 1	3	3.26	-0.05	0.05	897.		
	4	0.00	-0.05	0.05	0.		
	5	0.00	-0.05	0.05	0.	885.	
	1	3.16	-0.05	0.05	472.		
	2	3.52	-0.05	0.05	1260		
COLUMN 2	3	3.62	-0.05	0.05	965.		
	4	0.00	-0.05	0.05	0.		
	5	0.00	-0.05	0.05	0.	901.	2

GC Organics Indentification Summary
Form 10
Multicomponent Analytes

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Lab Sample ID	: L1849060-04		
Client ID	: CB-04		
Date Analyzed (1)	: 12/04/18 08:55	**Date Analyzed (2)**	: 12/04/18 08:55
Instrument ID (1)	: PEST7	**Instrument ID (2)**	: PEST7
GC Column (1)	: CLP-Pesticide	**GC Column (2)**	: CLP-PesticideII

Analyte	Peak	RT	RT Window From	RT Window To	Concentration	Mean Concentration	%RPD
AROCLOR 1254	1	3.87	-0.05	0.05	117.		
	2	0.00	-0.05	0.05	0.		
COLUMN 1	3	4.39	-0.05	0.05	192.		
	4	4.60	-0.05	0.05	196.		
	5	0.00	-0.05	0.05	0.	168.	
	1	0.00	-0.05	0.05	0.		
	2	4.50	-0.05	0.05	192.		
COLUMN 2	3	4.85	-0.05	0.05	215.		
	4	5.02	-0.05	0.05	205.		
	5	0.00	-0.05	0.05	0.	204.	19
AROCLOR 1260	1	0.00	4.48	4.58	0.		
	2	0.00	4.69	4.79	0.		
COLUMN 1	3	5.21	5.16	5.26	95.4		
	4	5.43	5.38	5.48	120		
	5	5.63	5.57	5.67	147.	121.	
	1	0.00	4.94	5.04	0.		
	2	0.00	5.09	5.19	0.		
COLUMN 2	3	5.67	5.61	5.71	135.		
	4	5.84	5.78	5.88	235.		
	5	6.08	6.03	6.13	165.	178.	38
AROCLOR 1242	1	2.85	-0.05	0.05	26.3		
	2	3.17	-0.05	0.05	79.7		
COLUMN 1	3	3.26	-0.05	0.05	41.4		
	4	0.00	-0.05	0.05	0.		
	5	0.00	-0.05	0.05	0.	49.2	
	1	3.16	-0.05	0.05	26.7		
	2	3.52	-0.05	0.05	82.4		
COLUMN 2	3	3.62	-0.05	0.05	49.2		
	4	0.00	-0.05	0.05	0.		
	5	0.00	-0.05	0.05	0.	52.8	7

GC Organics Indentification Summary
Form 10
Multicomponent Analytes

Client	:	**CHA Companies**	**Lab Number**	:	**L1849060**
Project Name	:	**700 SMITH BLVD**	**Project Number**	:	**29852.1202.44000**
Lab Sample ID	:	**L1849060-05D**			
Client ID	:	**CB-01**			
Date Analyzed (1)	:	**12/10/18 16:28**	**Date Analyzed (2)**	:	**12/10/18 16:28**
Instrument ID (1)	:	**PEST12**	**Instrument ID (2)**	:	**PEST12**
GC Column (1)	:	**CLP-Pesticide**	**GC Column (2)**	:	**CLP-PesticideII**

			RT Window			Mean	
Analyte	**Peak**	**RT**	**From**	**To**	**Concentration**	**Concentration**	**%RPD**
AROCLOR 1254	**1**	**4.04**	**-0.05**	**0.05**	**6210**		
	2	**4.24**	**-0.05**	**0.05**	**7120**		
COLUMN 1	**3**	**4.55**	**-0.05**	**0.05**	**8770**		
	4	**4.76**	**-0.05**	**0.05**	**6860**		
	5	**0.00**	**-0.05**	**0.05**	**0.**	**7240**	
	1	**4.76**	**-0.05**	**0.05**	**7650**		
	2	**4.90**	**-0.05**	**0.05**	**7150**		
COLUMN 2	**3**	**5.25**	**-0.05**	**0.05**	**8080**		
	4	**5.42**	**-0.05**	**0.05**	**6390**		
	5	**0.00**	**-0.05**	**0.05**	**0.**	**7320**	**1**
AROCLOR 1260	**1**	**0.00**	**4.85**	**4.95**	**0.**		
	2	**5.36**	**5.31**	**5.41**	**3080**		
COLUMN 1	**3**	**5.58**	**5.53**	**5.63**	**2880**		
	4	**5.78**	**5.73**	**5.83**	**3080**		
	5	**0.00**	**0.00**	**0.00**		**3010**	
	1	**0.00**	**5.49**	**5.59**	**0.**		
	2	**6.06**	**6.01**	**6.11**	**2200**		
COLUMN 2	**3**	**6.22**	**6.17**	**6.27**	**2740**		
	4	**6.48**	**6.42**	**6.52**	**2670**		
	5	**0.00**	**0.00**	**0.00**		**2530**	**17**

GC Organics Indentification Summary
Form 10
Multicomponent Analytes

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Lab Sample ID	: L1849060-06		
Client ID	: DUP-18		
Date Analyzed (1)	: 12/04/18 09:20	**Date Analyzed (2)**	: 12/04/18 09:20
Instrument ID (1)	: PEST7	**Instrument ID (2)**	: PEST7
GC Column (1)	: CLP-Pesticide	**GC Column (2)**	: CLP-PesticideII

			RT Window			Mean	
Analyte	**Peak**	**RT**	**From**	**To**	**Concentration**	**Concentration**	**%RPD**
AROCLOR 1254	1	3.87	-0.05	0.05	864.		
	2	0.00	-0.05	0.05	0.		
COLUMN 1	3	4.39	-0.05	0.05	1410		
	4	4.61	-0.05	0.05	1520		
	5	0.00	-0.05	0.05	0.	1270	
	1	0.00	-0.05	0.05	0.		
	2	4.50	-0.05	0.05	1450		
COLUMN 2	3	4.85	-0.05	0.05	1580		
	4	5.02	-0.05	0.05	1810		
	5	0.00	-0.05	0.05	0.	1620	24
AROCLOR 1260	1	0.00	4.48	4.58	0.		
	2	0.00	4.69	4.79	0.		
COLUMN 1	3	5.22	5.16	5.26	1000		
	4	5.44	5.38	5.48	885.		
	5	5.64	5.57	5.67	1130	1010	
	1	0.00	4.94	5.04	0.		
	2	0.00	5.09	5.19	0.		
COLUMN 2	3	5.67	5.61	5.71	960		
	4	5.84	5.78	5.88	1660		
	5	6.09	6.03	6.13	1340	1320	27
AROCLOR 1242	1	2.85	-0.05	0.05	417.		
	2	3.17	-0.05	0.05	917.		
COLUMN 1	3	3.26	-0.05	0.05	637.		
	4	0.00	-0.05	0.05	0.		
	5	0.00	-0.05	0.05	0.	657.	
	1	3.16	-0.05	0.05	339.		
	2	3.52	-0.05	0.05	940		
COLUMN 2	3	3.62	-0.05	0.05	706.		
	4	0.00	-0.05	0.05	0.		
	5	0.00	-0.05	0.05	0.	662.	1

Aroclor Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\181204A\
Data File : 16181204a-02.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 Dec 2018 3:33 am
Operator : pest16:ht
Sample : wg1184858-1,42e,,
Misc : wg1185229,wg1184858,ical14982
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 07 00:20:11 2018
Quant Method : I:\Pest16\181204A\P16_pcb_08_09i_18_ugL_ICAL14982.m
Quant Title : pcb
QLast Update : Fri Nov 30 09:54:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest16\181204A\16181204a-01.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	2.229	2.223	1032.0E6	1484.4E6	250.000	250.000
	Standard Area 1 : #1 = 825094645				Recovery = 125.08%		
	Standard Area 1 : #2 = 1266052214				Recovery = 117.25%		
14) i	2154_1br2nb	2.229	2.223	1032.0E6	1484.4E6	250.000	250.000
22) i	4268_1br2nb	2.229	2.223	1032.0E6	1484.4E6	250.000	250.000
33) i	1248_1br2nb	2.229	2.223	1032.0E6	1484.4E6	250.000	250.000
39) i	3262_1br2nb	2.229	2.223	1032.0E6	1484.4E6	250.000	250.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.736	2.845	1875.6E6	2601.2E6	361.957	357.581
	Spiked Amount 500.000	Range 30 - 150		Recovery =		72.39%	71.52%
3) s	Decachlorobi	6.830f	7.255f	1563.2E6	1612.4E6	415.989	410.206
	Spiked Amount 500.000	Range 30 - 150		Recovery =		83.20%	82.04%
	Target Compounds						
4) l1	1016-1	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
8) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-1			0	0	N.D.	N.D.
	Average 1016-1					0.000	0.000
9) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
13) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\181204A\
Data File : 16181204a-02.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 Dec 2018 3:33 am
Operator : pest16:ht
Sample : wg1184858-1,42e,,
Misc : wg1185229,wg1184858,ical14982
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 07 00:20:11 2018
Quant Method : I:\Pest16\181204A\P16_pcb_08_09i_18_ugL_ICAL14982.m
Quant Title : pcb
QLast Update : Fri Nov 30 09:54:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest16\181204A\16181204a-01.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
17) l3	1221-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-2			0	0	N.D.	N.D.
Average	1221-2					0.000	0.000
18) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-2			0	0	N.D.	N.D.
Average	1254-2					0.000	0.000
23) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
24) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
28) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
29) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
34) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\Pest16\181204A\
Data File : 16181204a-02.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 Dec 2018 3:33 am
Operator : pest16:ht
Sample : wg1184858-1,42e,,
Misc : wg1185229,wg1184858,ical14982
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 07 00:20:11 2018
Quant Method : I:\Pest16\181204A\P16_pcb_08_09i_18_ugL_ICAL14982.m
Quant Title : pcb
QLast Update : Fri Nov 30 09:54:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest16\181204A\16181204a-01.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
37) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
40) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
41) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
44) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
45) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
46) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

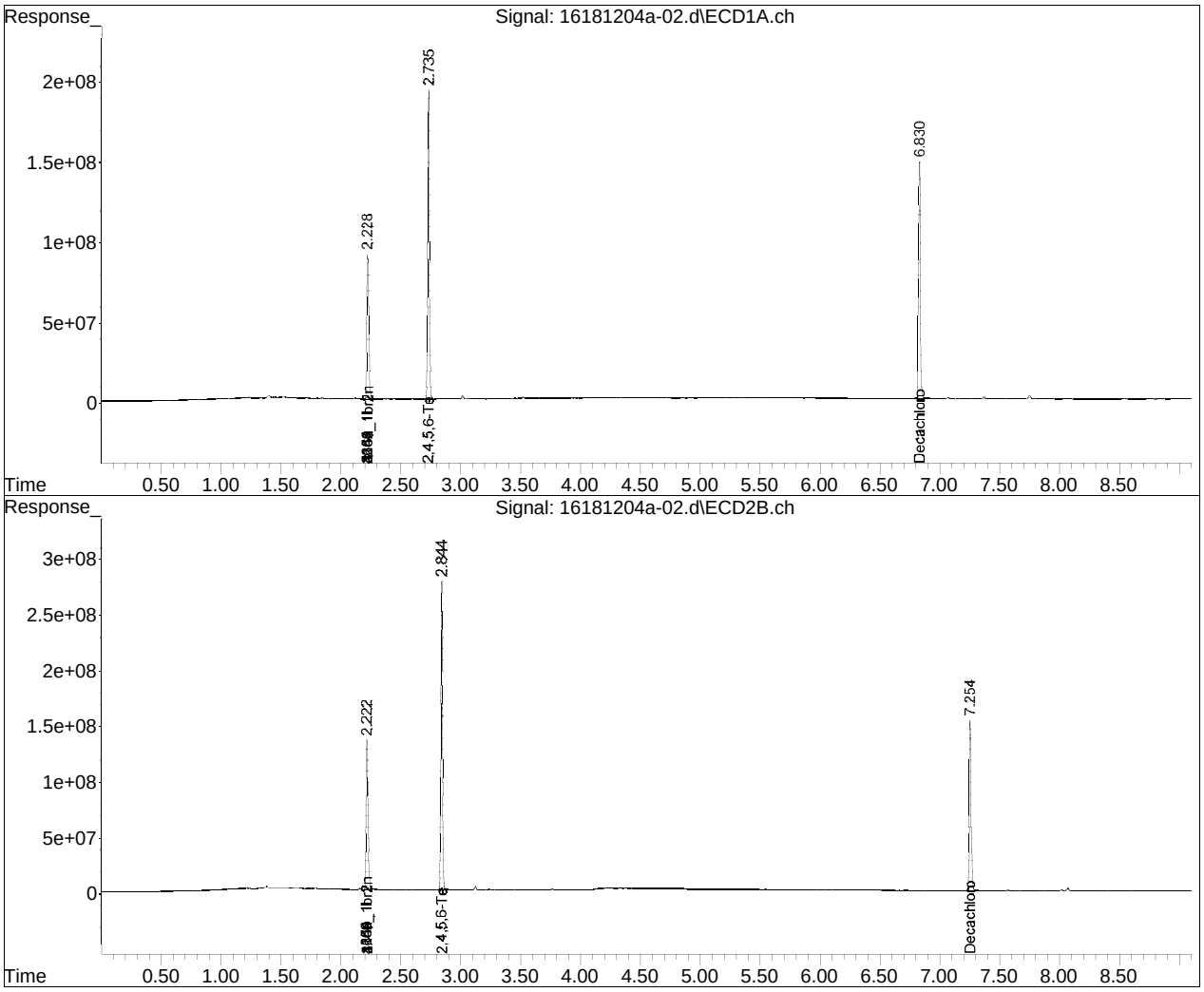
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda-01.d••d)

Data Path : I:\Pest16\181204A\
Data File : 16181204a-02.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 Dec 2018 3:33 am
Operator : pest16:ht
Sample : wg1184858-1,42e,,
Misc : wg1185229,wg1184858,ical14982
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 07 00:20:11 2018
Quant Method : I:\Pest16\181204A\P16_pcb_08_09i_18_ugL_ICAL14982.m
Quant Title : pcb
QLast Update : Fri Nov 30 09:54:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration Report

Data Path	: I:\Pest16\181204A\	QMethod	: P16_pcb_08_09i_18_ugL_IC
Data File	: 16181204a-02.d	Operator	: pest16:ht
Date Inj'd	: 12/4/2018 3:33 am	Instrument	: PEST16
Sample	: wg1184858-1,42e,,	Quant Date	: 12/7/2018 0:18 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\181204A\
Data File : P7181204a-19.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2018 7:12 am
Operator : pest7:wr
Sample : wg1184841-1,42e,,
Misc : wg1185226,wg1184841,ical14857
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 14:58:57 2018
Quant Method : I:\Pest7\181206A\P7_pcb_04_10_18_ugL_ICAL14857.m
Quant Title : pcb
QLast Update : Thu Dec 06 11:14:43 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest7\181204A\P7181204a-01.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.940	1.986	675.3E6	510.7E6	250.000	250.000
	Standard Area 1 : #1 = 546245976				Recovery =	123.63%	
	Standard Area 1 : #2 = 409200022				Recovery =	124.81%	
13) i	2154_1br2nb	1.940	1.986	675.3E6	510.7E6	250.000	250.000
22) i	4268_1br2nb	1.940	1.986	675.3E6	510.7E6	250.000	250.000
33) i	1248_1br2nb	1.940	1.986	675.3E6	510.7E6	250.000	250.000
39) i	3262_1br2nb	1.940	1.986	675.3E6	510.7E6	250.000	250.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.393	2.550	1131.3E6	865.9E6	348.567	368.274
	Spiked Amount 500.000	Range 30 - 150		Recovery =		69.71%	73.65%
3) s	Decachlorobi	6.354	6.826	683.8E6	508.7E6	307.486	329.751M4
	Spiked Amount 500.000	Range 30 - 150		Recovery =		61.50%	65.95%
	Target Compounds						
4) l1	1016-2	0.000	0.000	0	0	N.D. d	N.D. d
5) l1	1016-3	0.000	0.000	0	0	N.D. d	N.D. d
6) l1	1016-4	0.000	0.000	0	0	N.D. d	N.D. d
7) l1	1016-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1016-2			0	0	N.D.	N.D.
	Average 1016-2					0.000	0.000
8) l2	1260-1	0.000	0.000	0	0	N.D. d	N.D. d
9) l2	1260-2	0.000	0.000	0	0	N.D. d	N.D. d
10) l2	1260-3	0.000	0.000	0	0	N.D. d	N.D. d
11) l2	1260-4	0.000	0.000	0	0	N.D. d	N.D. d
12) l2	1260-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum 1260-1			0	0	N.D.	N.D.
	Average 1260-1					0.000	0.000
14) l3	1221-1	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\Pest7\181204A\
Data File : P7181204a-19.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2018 7:12 am
Operator : pest7:wr
Sample : wg1184841-1,42e,,
Misc : wg1185226,wg1184841,ical14857
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 14:58:57 2018
Quant Method : I:\Pest7\181206A\P7_pcb_04_10_18_ugL_ICAL14857.m
Quant Title : pcb
QLast Update : Thu Dec 06 11:14:43 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest7\181204A\P7181204a-01.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
15) l3	1221-2	0.000	0.000	0	0	N.D. d	N.D. d
16) l3	1221-3	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
17) l4	1254-1	0.000	0.000	0	0	N.D. d	N.D. d
18) l4	1254-2	0.000	0.000	0	0	N.D. d	N.D. d
19) l4	1254-3	0.000	0.000	0	0	N.D. d	N.D. d
20) l4	1254-4	0.000	0.000	0	0	N.D. d	N.D. d
21) l4	1254-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000
23) l6	1242-1	0.000	0.000	0	0	N.D. d	N.D. d
24) l6	1242-2	0.000	0.000	0	0	N.D. d	N.D. d
25) l6	1242-3	0.000	0.000	0	0	N.D. d	N.D. d
26) l6	1242-4	0.000	0.000	0	0	N.D. d	N.D. d
27) l6	1242-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1242-1			0	0	N.D.	N.D.
Average	1242-1					0.000	0.000
28) l9	1268-1	0.000	0.000	0	0	N.D. d	N.D. d
29) l9	1268-2	0.000	0.000	0	0	N.D. d	N.D. d
30) l9	1268-3	0.000	0.000	0	0	N.D. d	N.D. d
31) l9	1268-4	0.000	0.000	0	0	N.D. d	N.D. d
32) l9	1268-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1268-1			0	0	N.D.	N.D.
Average	1268-1					0.000	0.000
34) l7	1248-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l7	1248-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l7	1248-3	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\Pest7\181204A\
Data File : P7181204a-19.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2018 7:12 am
Operator : pest7:wr
Sample : wg1184841-1,42e,,
Misc : wg1185226,wg1184841,ical14857
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 14:58:57 2018
Quant Method : I:\Pest7\181206A\P7_pcb_04_10_18_ugL_ICAL14857.m
Quant Title : pcb
QLast Update : Thu Dec 06 11:14:43 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest7\181204A\P7181204a-01.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
37) l7	1248-4	0.000	0.000	0	0	N.D. d	N.D. d
38) l7	1248-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1248-1			0	0	N.D.	N.D.
Average	1248-1					0.000	0.000
40) l5	1232-1	0.000	0.000	0	0	N.D. d	N.D. d
41) l5	1232-2	0.000	0.000	0	0	N.D. d	N.D. d
42) l5	1232-3	0.000	0.000	0	0	N.D. d	N.D. d
43) l5	1232-4	0.000	0.000	0	0	N.D. d	N.D. d
44) l5	1232-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1232-1			0	0	N.D.	N.D.
Average	1232-1					0.000	0.000
45) l8	1262-1	0.000	0.000	0	0	N.D. d	N.D. d
46) l8	1262-2	0.000	0.000	0	0	N.D. d	N.D. d
47) l8	1262-3	0.000	0.000	0	0	N.D. d	N.D. d
48) l8	1262-4	0.000	0.000	0	0	N.D. d	N.D. d
49) l8	1262-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	1262-1			0	0	N.D.	N.D.
Average	1262-1					0.000	0.000

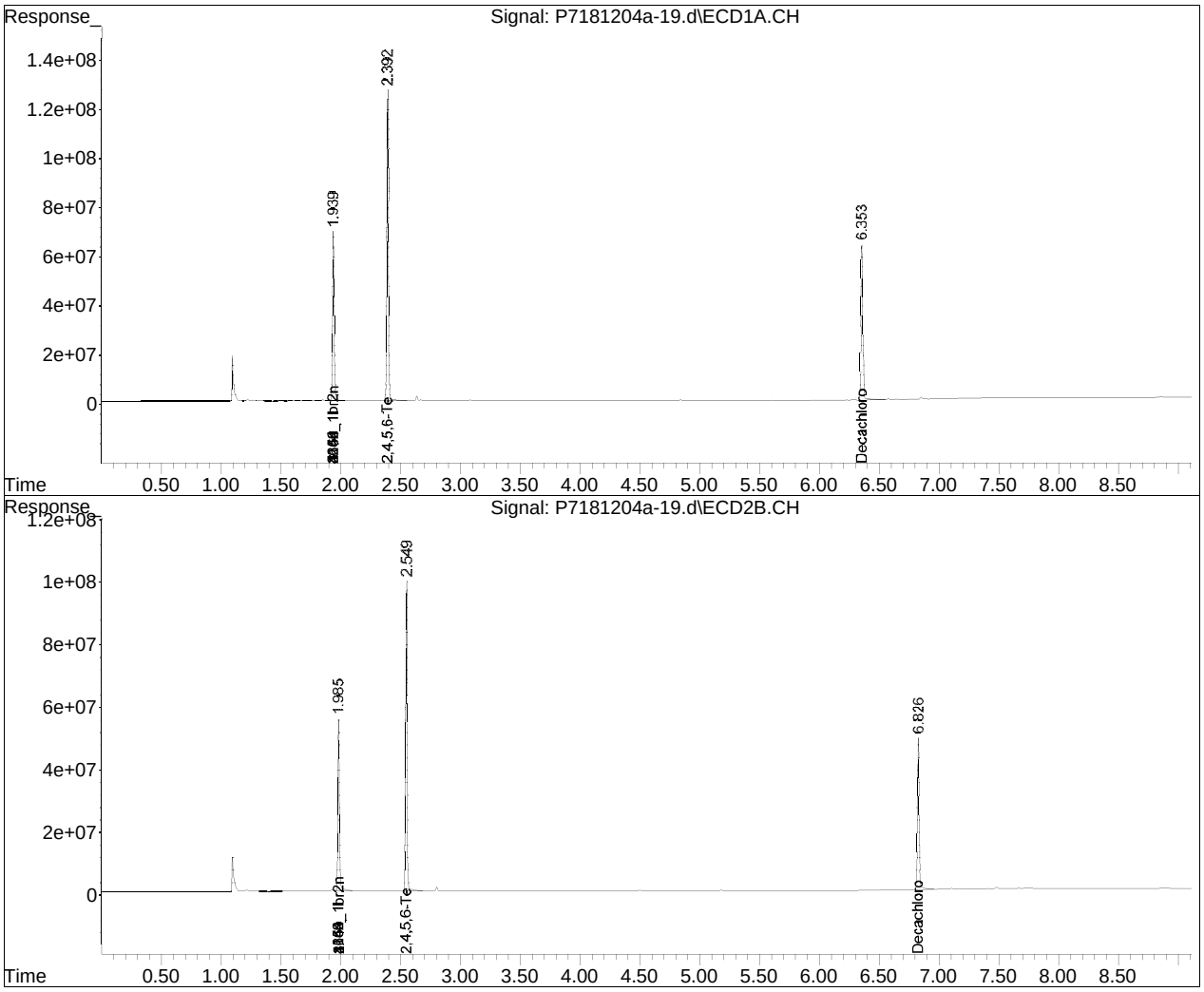
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed-01.d••ed)

Data Path : I:\Pest7\181204A\
Data File : P7181204a-19.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2018 7:12 am
Operator : pest7:wr
Sample : wg1184841-1,42e,,
Misc : wg1185226,wg1184841,ical14857
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 14:58:57 2018
Quant Method : I:\Pest7\181206A\P7_pcb_04_10_18_ugL_ICAL14857.m
Quant Title : pcb
QLast Update : Thu Dec 06 11:14:43 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

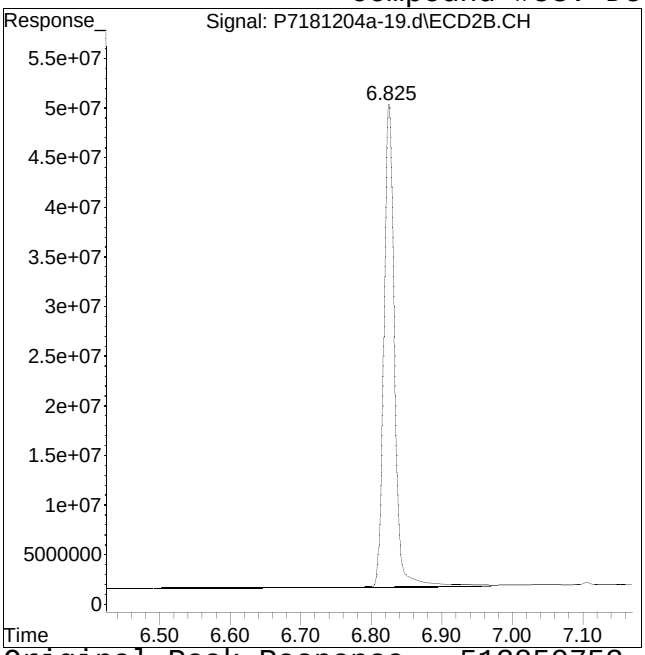


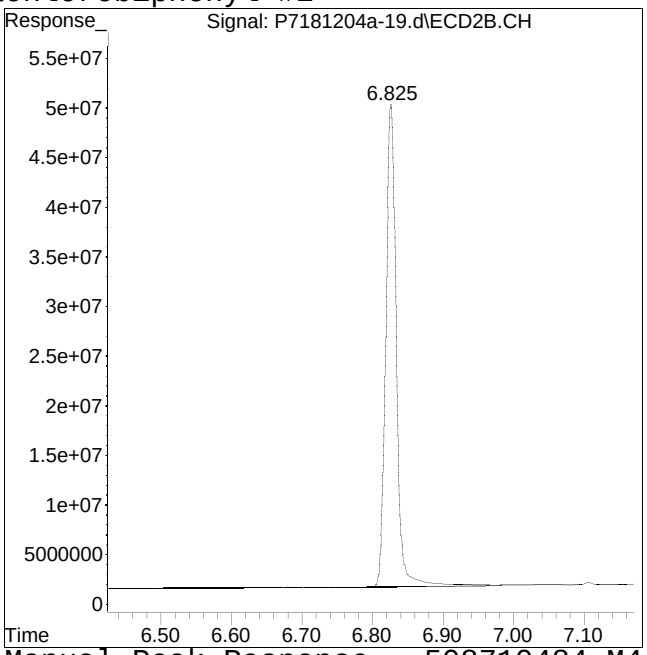
Manual Integration Report

Data Path : I:\Pest7\181204A\
Data File : P7181204a-19.d
Date Inj'd : 12/4/2018 7:12 am
Sample : wg1184841-1,42e,,

QMethod : P7_pcb_04_10_18_ugL_ICAL
Operator : pest7:wr
Instrument : Pest 7
Quant Date : 12/6/2018 2:09 pm

Compound #53: Decachlorobiphenyl #2





Original Peak Response = 513850753 Manual Peak Response = 508710484 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\181204A\
Data File : 16181204a-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 Dec 2018 3:46 am
Operator : pest16:ht
Sample : wg1184858-2,42e,,
Misc : wg1185229,wg1184858,ical14982
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 07 00:20:45 2018
Quant Method : I:\Pest16\181204A\P16_pcb_08_09i_18_ugL_ICAL14982.m
Quant Title : pcb
QLast Update : Fri Nov 30 09:54:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest16\181204A\16181204a-01.d
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards						
1) i 1660_1br2nb	2.218	2.217	1046.9E6	1474.3E6	250.000	250.000
Standard Area 1 : #1 = 825094645				Recovery =	126.88%	
Standard Area 1 : #2 = 1266052214				Recovery =	116.45%	
System Monitoring Compounds						
2) s 2,4,5,6-Tetr	2.721	2.836	2117.1E6	2829.9E6	402.771	391.674
Spiked Amount 500.000	Range 30 - 150			Recovery =	80.55%	78.33%
3) s Decachlorobi	6.798	7.217	1662.3E6	1656.8E6	436.082	424.354
Spiked Amount 500.000	Range 30 - 150			Recovery =	87.22%	84.87%
Target Compounds						
4) l1 1016-1	2.970	3.184	189.2E6	249.3E6	2443.048	2118.763
5) l1 1016-2	3.229	3.495	452.1E6	612.6E6	2449.570	2368.307
6) l1 1016-3	3.591	3.877	1071.1E6	1359.7E6	3317.331M4	3047.932M4
7) l1 1016-4	3.698	3.987	421.8E6	504.8E6	3005.122	2835.606
8) l1 1016-5	4.028	4.366	473.4E6	401.5E6	2865.271M4	2551.413
Sum 1016-1			2607.5E6	3127.9E6	14080.343	12922.022
Average 1016-1					2816.069	2584.404
9) l2 1260-1	4.980	5.341	598.0E6	673.7E6	2500.297	2386.622
10) l2 1260-2	5.184	5.493	919.5E6	802.4E6	2599.353	2581.119
11) l2 1260-3	5.650	6.020	587.5E6	689.5E6	2628.799	2665.883
12) l2 1260-4	5.865	6.190	1274.9E6	1450.5E6	2658.825	2736.549
13) l2 1260-5	6.064	6.438	934.5E6	980.0E6	2762.072	2821.259
Sum 1260-1			4314.4E6	4596.1E6	13149.346	13191.432
Average 1260-1					2629.869	2638.286
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\181204A\
Data File : 16181204a-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 Dec 2018 3:46 am
Operator : pest16:ht
Sample : wg1184858-2,42e,,
Misc : wg1185229,wg1184858,ical14982
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 07 00:20:45 2018
Quant Method : I:\Pest16\181204A\P16_pcb_08_09i_18_ugL_ICAL14982.m
Quant Title : pcb
QLast Update : Fri Nov 30 09:54:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest16\181204A\16181204a-01.d
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum 1254-2			0	0	N.D.	N.D.
Average 1254-2					0.000	0.000
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

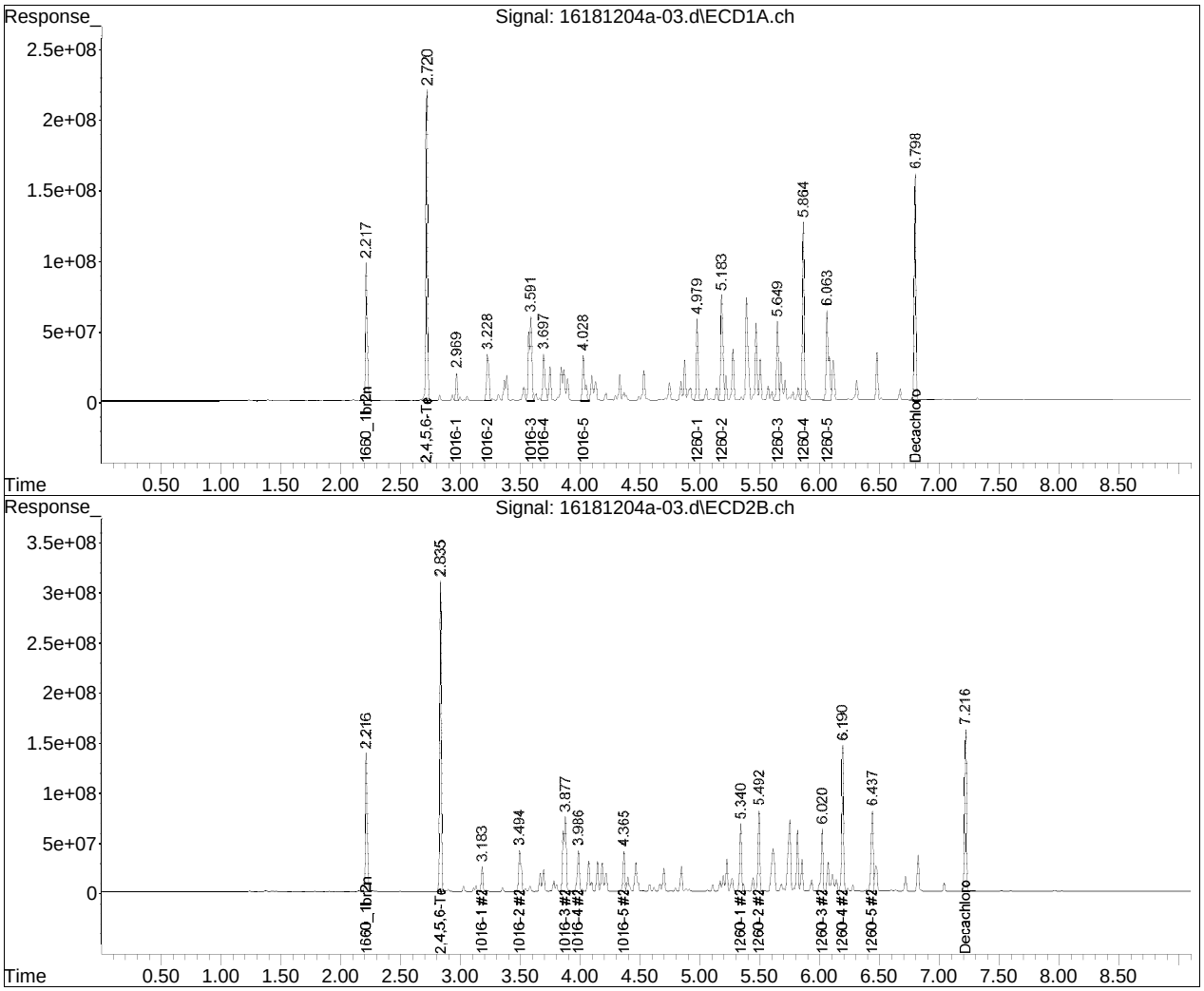
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : 1660 - 166016\181204A\16181204a-01.d••d)

Data Path : I:\Pest16\181204A\
Data File : 16181204a-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 Dec 2018 3:46 am
Operator : pest16:ht
Sample : wg1184858-2,42e,,
Misc : wg1185229,wg1184858,ical14982
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 07 00:20:45 2018
Quant Method : I:\Pest16\181204A\P16_pcb_08_09i_18_ugL_ICAL14982.m
Quant Title : pcb
QLast Update : Fri Nov 30 09:54:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

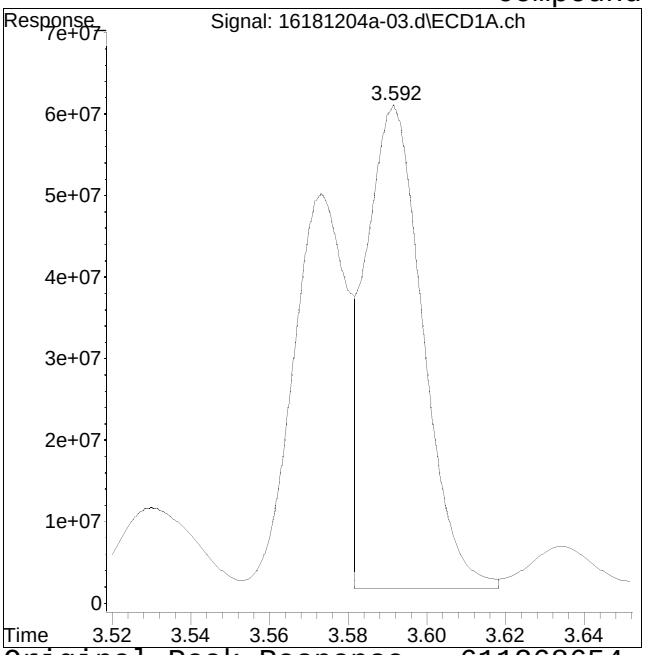


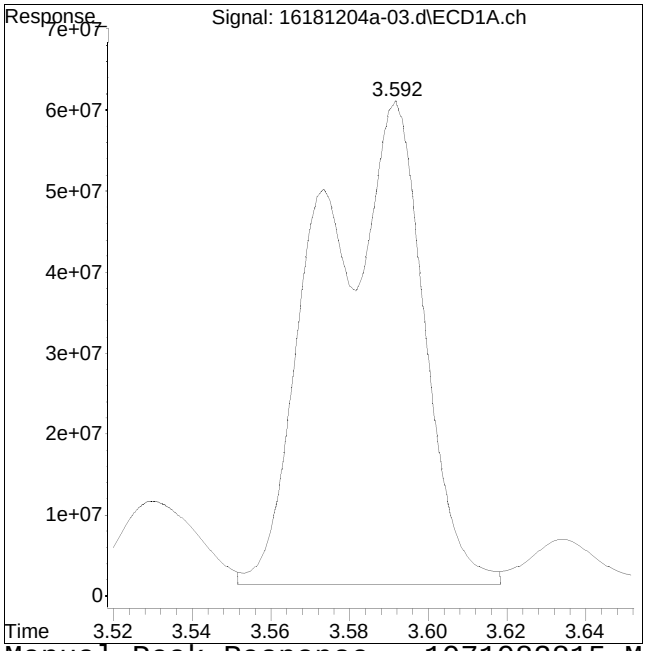
Manual Integration Report

Data Path : I:\Pest16\181204A\
Data File : 16181204a-03.d
Date Inj'd : 12/4/2018 3:46 am
Sample : wg1184858-2,42e,,

QMethod : P16_pcb_08_09i_18_ugL_IC
Operator : pest16:ht
Instrument : PEST16
Quant Date : 12/7/2018 0:18 am

Compound #6: 1016-3





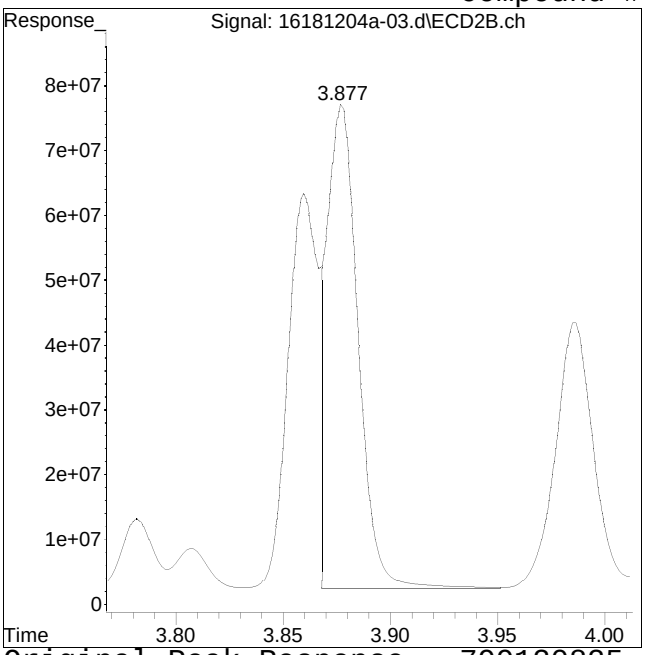
Original Peak Response = 611268654 Manual Peak Response = 1071082815 M4
M4 = Poor automated baseline construction.

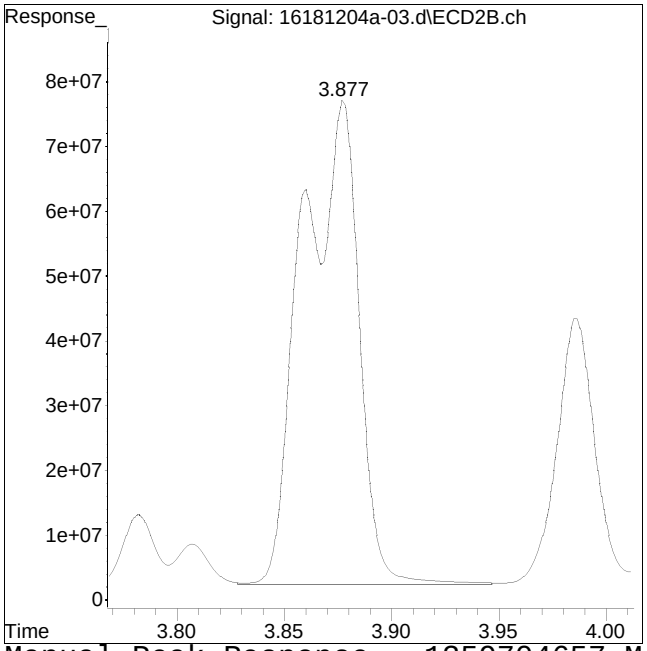
Manual Integration Report

Data Path : I:\Pest16\181204A\
Data File : 16181204a-03.d
Date Inj'd : 12/4/2018 3:46 am
Sample : wg1184858-2,42e,,

QMethod : P16_pcb_08_09i_18_ugL_IC
Operator : pest16:ht
Instrument : PEST16
Quant Date : 12/7/2018 0:18 am

Compound #55: 1016-3 #2





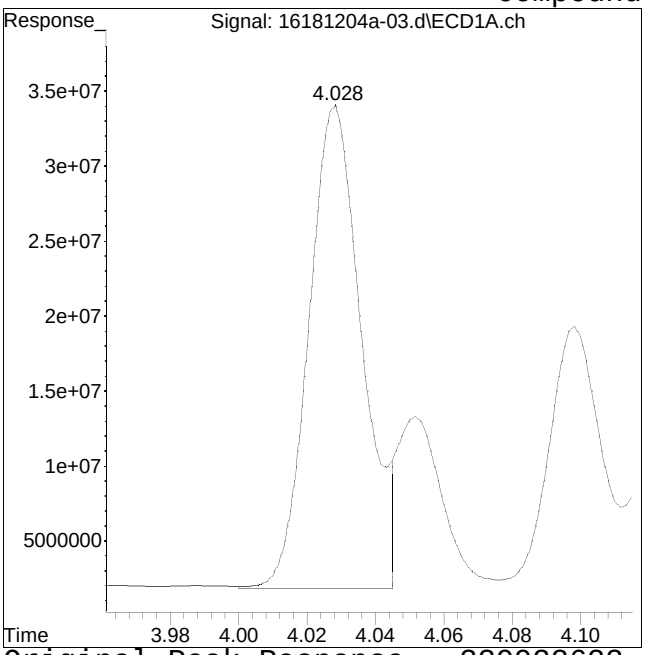
Original Peak Response = 799120825 Manual Peak Response = 1359704657 M4
M4 = Poor automated baseline construction.

Manual Integration Report

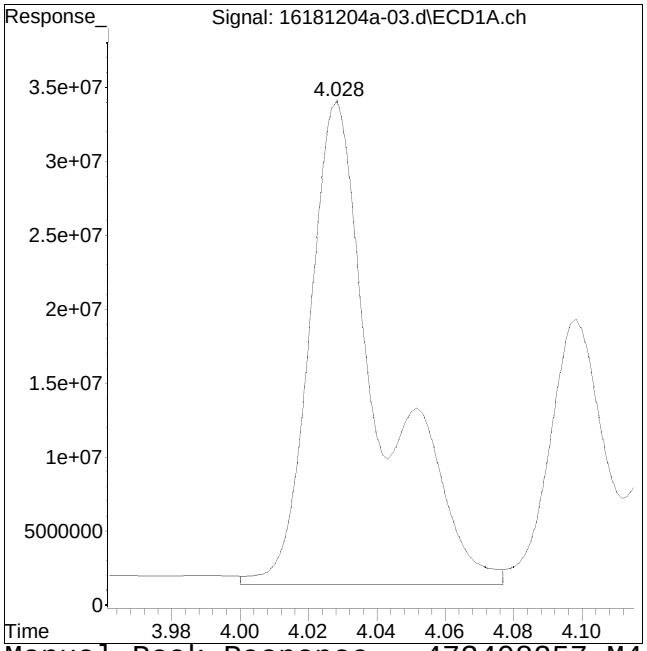
Data Path : I:\Pest16\181204A\
Data File : 16181204a-03.d
Date Inj'd : 12/4/2018 3:46 am
Sample : wg1184858-2,42e,,

QMethod : P16_pcb_08_09i_18_ugL_IC
Operator : pest16:ht
Instrument : PEST16
Quant Date : 12/7/2018 0:18 am

Compound #8: 1016-5



Original Peak Response = 339922623



Manual Peak Response = 473408257 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\181204A\
Data File : P7181204a-20.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2018 7:24 am
Operator : pest7:wr
Sample : wg1184841-2,42e,,
Misc : wg1185226,wg1184841,ical14857
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 14:59:38 2018
Quant Method : I:\Pest7\181206A\P7_pcb_04_10_18_ugL_ICAL14857.m
Quant Title : pcb
QLast Update : Thu Dec 06 11:14:43 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest7\181204A\P7181204a-01.d
Sub List : 1660 - 1660

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.940	1.986	682.1E6	501.1E6	250.000	250.000
	Standard Area 1 : #1 = 546245976				Recovery =	124.87%	
	Standard Area 1 : #2 = 409200022				Recovery =	122.45%	
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.393	2.549	1172.4E6	872.2E6	357.630	378.110
	Spiked Amount 500.000	Range 30 - 150		Recovery =	71.53%	75.62%	
3) s	Decachlorobi	6.353	6.825	695.6E6	509.8E6	309.681	336.833
	Spiked Amount 500.000	Range 30 - 150		Recovery =	61.94%	67.37%	
	Target Compounds						
4) l1	1016-2	2.844	3.159	285.7E6	220.7E6	2130.427	2162.908
5) l1	1016-3	3.167	3.516	367.2E6	280.2E6	2494.863M3	2530.981
6) l1	1016-4	3.262	3.621	264.2E6	174.2E6	2463.704	2338.415
7) l1	1016-5	3.565	4.003	190.4E6	146.1E6	2118.250M3	2380.044
	Sum 1016-2			1107.4E6	821.3E6	9207.243	9412.348
Average	1016-2					2301.811	2353.087
8) l2	1260-1	4.526	4.989	323.9E6	229.2E6	1967.336	2114.989
9) l2	1260-2	4.737	5.143	486.4E6	274.6E6	2059.246	2199.281
10) l2	1260-3	5.207	5.664	300.7E6	229.0E6	1999.721	2268.260
11) l2	1260-4	5.426	5.835	696.4E6	462.0E6	2093.504	2310.916
12) l2	1260-5	5.622	6.077	454.8E6	309.4E6	2102.582M3	2218.763
	Sum 1260-1			2262.2E6	1504.3E6	10222.389	11112.210
Average	1260-1					2044.478	2222.442
	Sum 1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
	Sum 1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\181204A\
Data File : P7181204a-20.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2018 7:24 am
Operator : pest7:wr
Sample : wg1184841-2,42e,,
Misc : wg1185226,wg1184841,ical14857
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 14:59:38 2018
Quant Method : I:\Pest7\181206A\P7_pcb_04_10_18_ugL_ICAL14857.m
Quant Title : pcb
QLast Update : Thu Dec 06 11:14:43 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest7\181204A\P7181204a-01.d
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

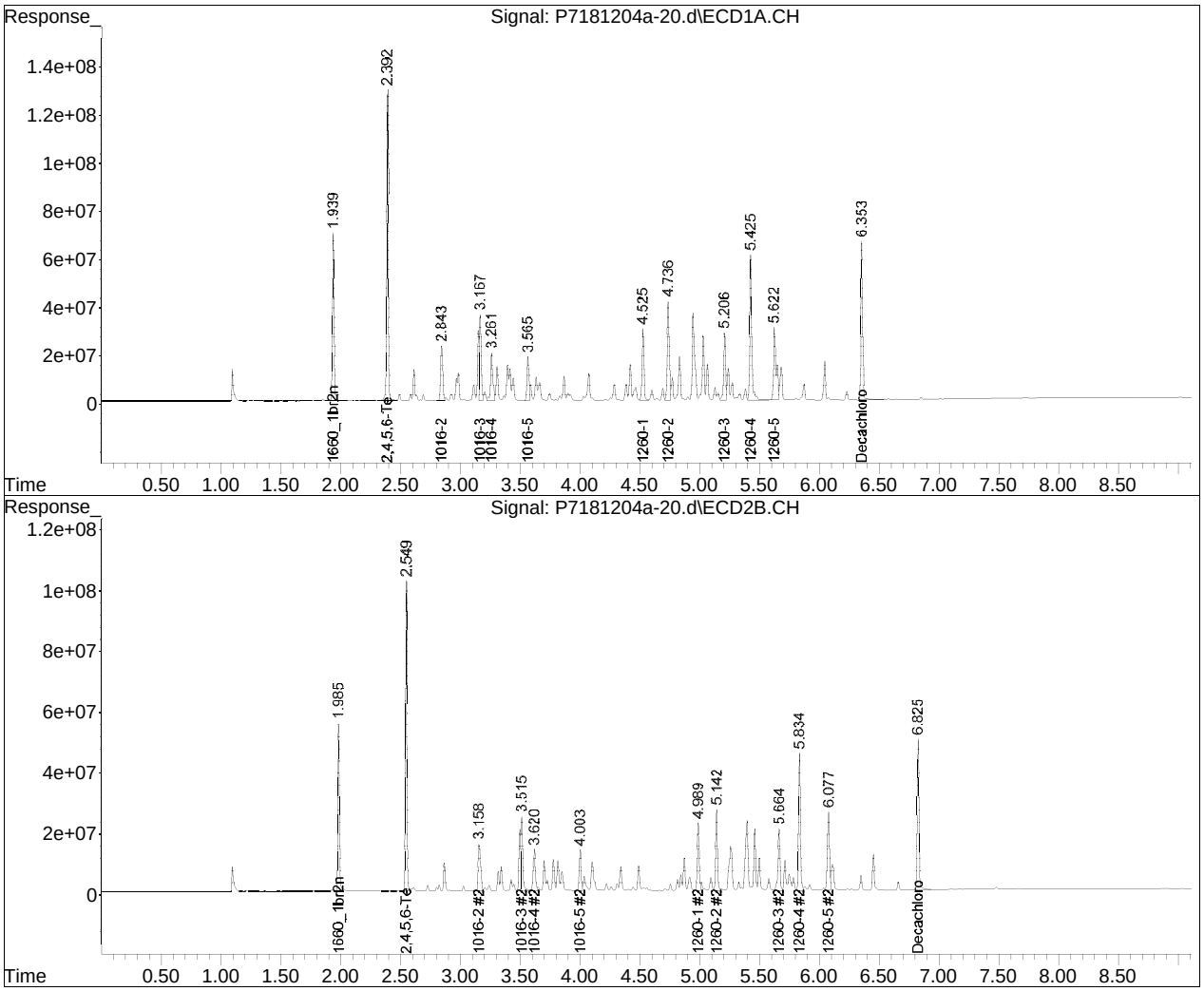
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : 1660 - 16607\181204A\P7181204a-01.d••ed)

Data Path : I:\Pest7\181204A\
Data File : P7181204a-20.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2018 7:24 am
Operator : pest7:wr
Sample : wg1184841-2,42e,,
Misc : wg1185226,wg1184841,ical14857
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 14:59:38 2018
Quant Method : I:\Pest7\181206A\P7_pcb_04_10_18_ugL_ICAL14857.m
Quant Title : pcb
QLast Update : Thu Dec 06 11:14:43 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

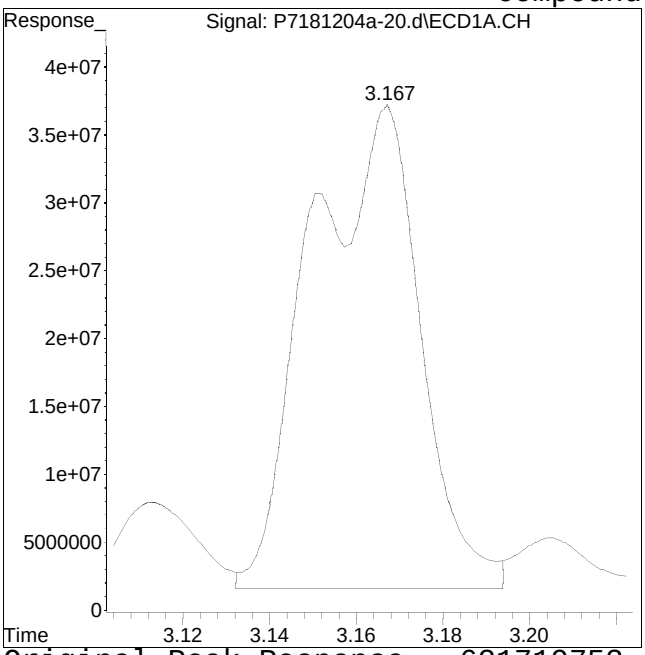


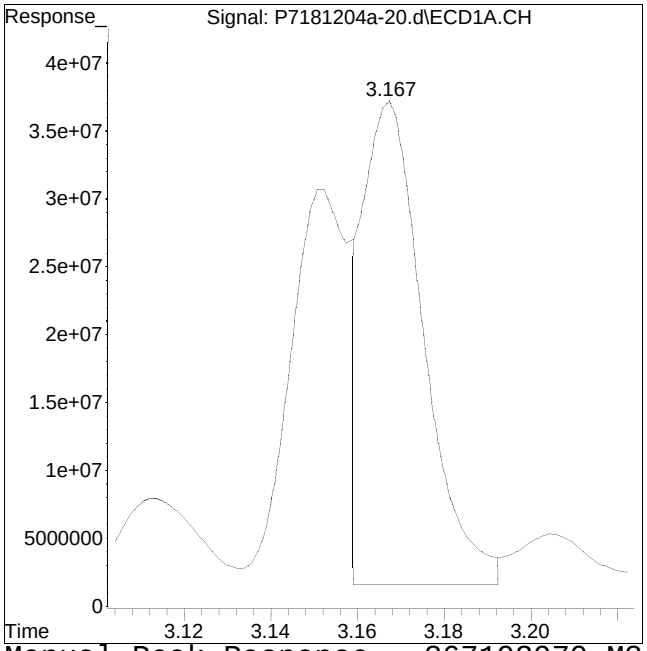
Manual Integration Report

Data Path : I:\Pest7\181204A\
Data File : P7181204a-20.d
Date Inj'd : 12/4/2018 7:24 am
Sample : wg1184841-2,42e,,

QMethod : P7_pcb_04_10_18_ugL_ICAL
Operator : pest7:wr
Instrument : Pest 7
Quant Date : 12/6/2018 2:09 pm

Compound #5: 1016-3





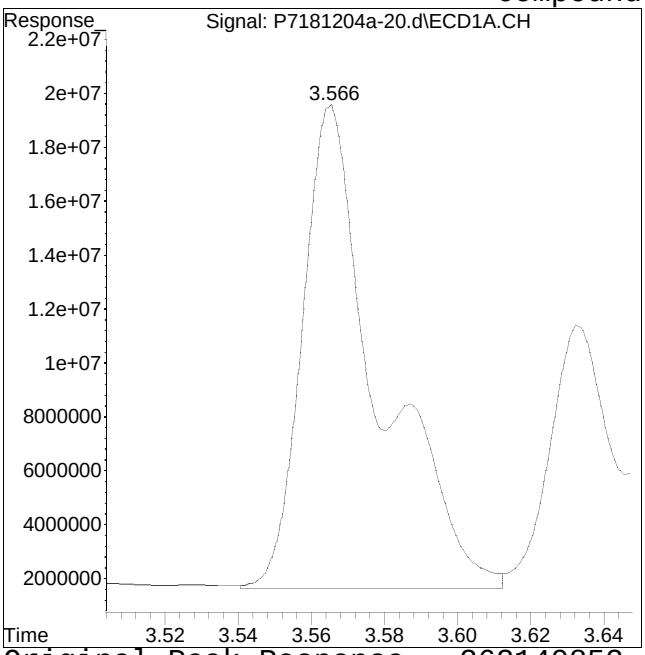
Original Peak Response = 621719753 Manual Peak Response = 367193970 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

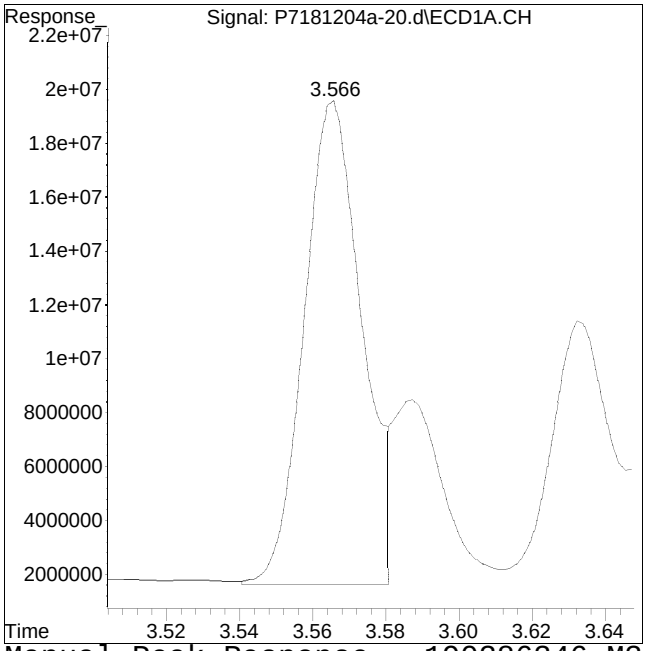
Manual Integration Report

Data Path : I:\Pest7\181204A\
Data File : P7181204a-20.d
Date Inj'd : 12/4/2018 7:24 am
Sample : wg1184841-2,42e,,

QMethod : P7_pcb_04_10_18_ugL_ICAL
Operator : pest7:wr
Instrument : Pest 7
Quant Date : 12/6/2018 2:09 pm

Compound #7: 1016-5





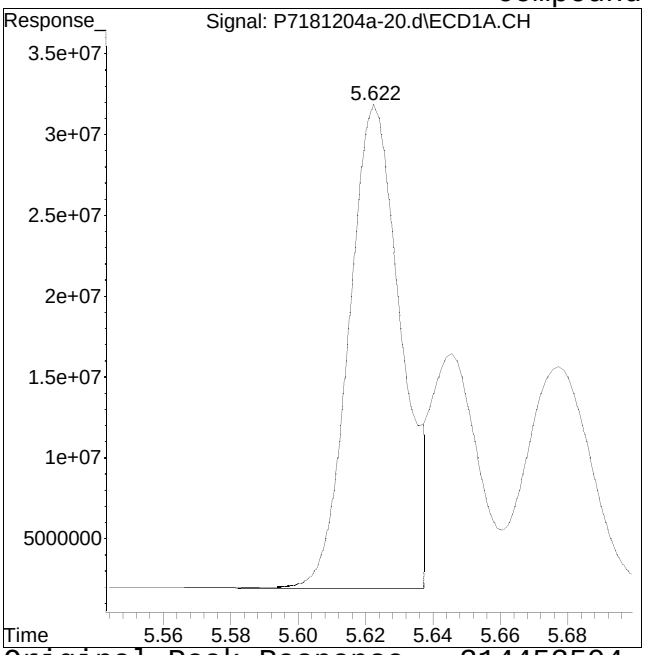
Original Peak Response = 262140852 Manual Peak Response = 190386346 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

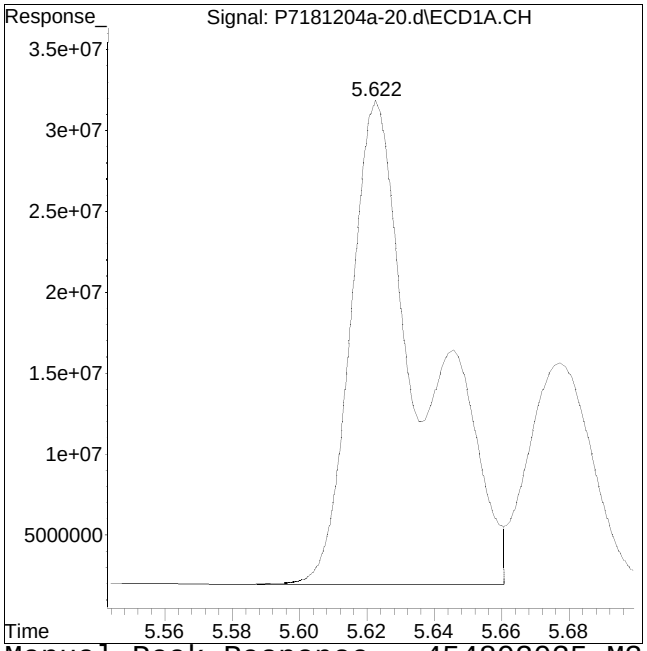
Manual Integration Report

Data Path : I:\Pest7\181204A\
Data File : P7181204a-20.d
Date Inj'd : 12/4/2018 7:24 am
Sample : wg1184841-2,42e,,

QMethod : P7_pcb_04_10_18_ugL_ICAL
Operator : pest7:wr
Instrument : Pest 7
Quant Date : 12/6/2018 2:09 pm

Compound #12: 1260-5





Original Peak Response = 314453504 Manual Peak Response = 454803035 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\181204A\
Data File : 16181204a-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 Dec 2018 4:00 am
Operator : pest16:ht
Sample : wg1184858-3,42e,,
Misc : wg1185229,wg1184858,ical14982
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 07 00:21:25 2018
Quant Method : I:\Pest16\181204A\P16_pcb_08_09i_18_ugL_ICAL14982.m
Quant Title : pcb
QLast Update : Fri Nov 30 09:54:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest16\181204A\16181204a-01.d
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards						
1) i 1660_1br2nb	2.217	2.216	991.1E6	1325.6E6	250.000	250.000
Standard Area 1 : #1 = 825094645				Recovery =	120.12%	
Standard Area 1 : #2 = 1266052214				Recovery =	104.70%	
System Monitoring Compounds						
2) s 2,4,5,6-Tetr	2.719	2.834	1907.7E6	2490.3E6	383.374	383.345
Spiked Amount 500.000	Range 30 - 150		Recovery =		76.67%	76.67%
3) s Decachlorobi	6.794	7.211	1507.3E6	1482.3E6	417.685	422.283
Spiked Amount 500.000	Range 30 - 150		Recovery =		83.54%	84.46%
Target Compounds						
4) l1 1016-1	2.968	3.182	171.7E6	223.5E6	2341.999	2113.463
5) l1 1016-2	3.226	3.494	418.6E6	546.0E6	2395.972	2347.566
6) l1 1016-3	3.589	3.876	968.8E6	1216.3E6	3169.388M4	3032.475M4
7) l1 1016-4	3.696	3.985	379.9E6	449.3E6	2859.508	2807.047
8) l1 1016-5	4.025	4.364	408.6E6	359.1E6	2612.440M4	2537.668
Sum 1016-1			2347.6E6	2794.2E6	13379.307	12838.219
Average 1016-1					2675.861	2567.644
9) l2 1260-1	4.976	5.338	544.4E6	606.6E6	2404.484	2389.920
10) l2 1260-2	5.181	5.490	841.2E6	724.0E6	2511.787	2590.122
11) l2 1260-3	5.647	6.018	536.9E6	624.1E6	2537.452	2683.542
12) l2 1260-4	5.862	6.188	1176.4E6	1317.2E6	2591.559	2763.927
13) l2 1260-5	6.061	6.435	853.4E6	889.2E6	2664.252	2847.194
Sum 1260-1			3952.2E6	4161.1E6	12709.534	13274.705
Average 1260-1					2541.907	2654.941
Sum 1221-2			0	0	N.D.	N.D.
Average 1221-2					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\Pest16\181204A\
Data File : 16181204a-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 Dec 2018 4:00 am
Operator : pest16:ht
Sample : wg1184858-3,42e,,
Misc : wg1185229,wg1184858,ical14982
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 07 00:21:25 2018
Quant Method : I:\Pest16\181204A\P16_pcb_08_09i_18_ugL_ICAL14982.m
Quant Title : pcb
QLast Update : Fri Nov 30 09:54:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest16\181204A\16181204a-01.d
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum 1254-2			0	0	N.D.	N.D.
Average 1254-2					0.000	0.000
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

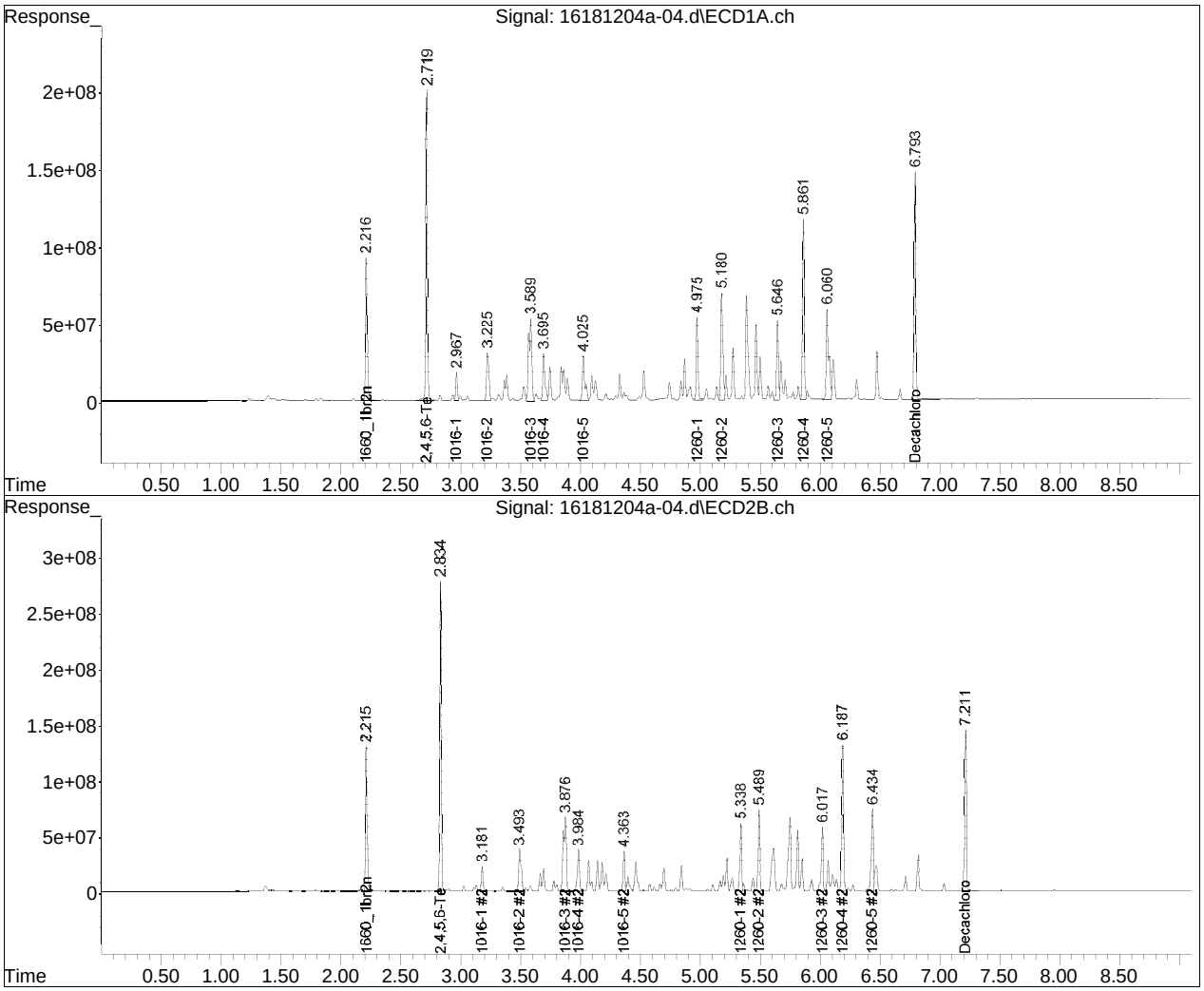
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : 1660 - 166016\181204A\16181204a-01.d••d)

Data Path : I:\Pest16\181204A\
Data File : 16181204a-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 Dec 2018 4:00 am
Operator : pest16:ht
Sample : wg1184858-3,42e,,
Misc : wg1185229,wg1184858,ical14982
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 07 00:21:25 2018
Quant Method : I:\Pest16\181204A\P16_pcb_08_09i_18_ugL_ICAL14982.m
Quant Title : pcb
QLast Update : Fri Nov 30 09:54:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

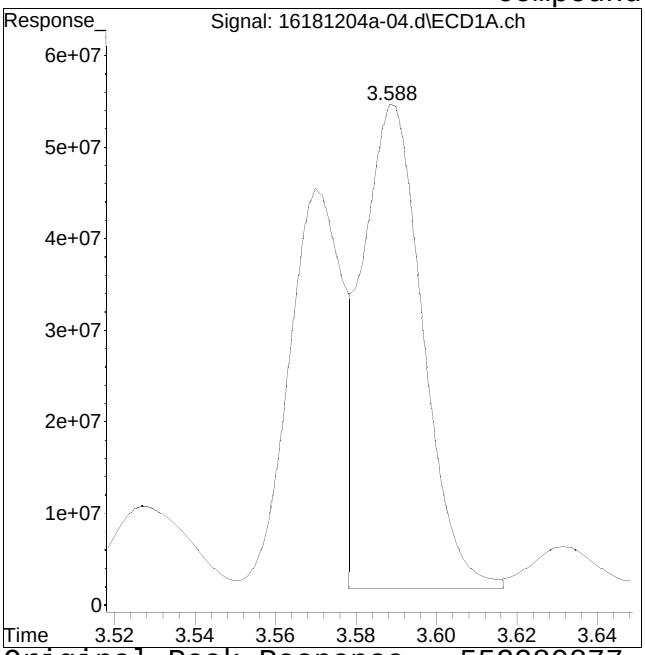


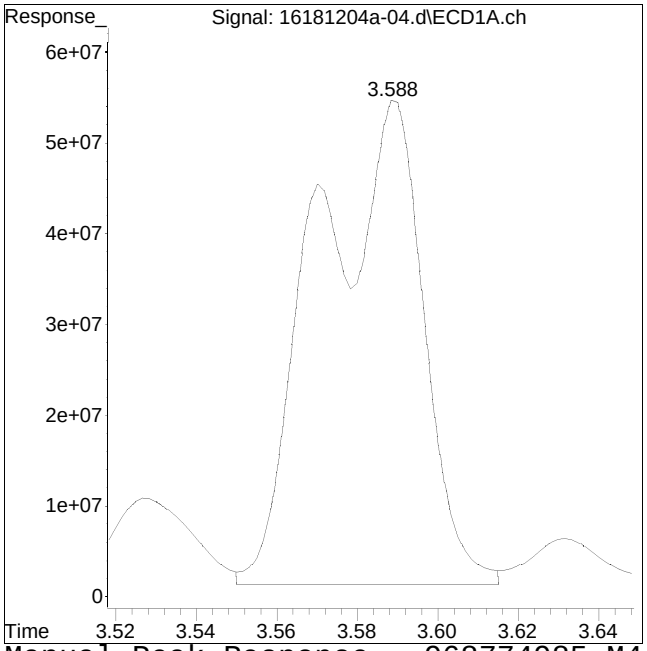
Manual Integration Report

Data Path : I:\Pest16\181204A\
Data File : 16181204a-04.d
Date Inj'd : 12/4/2018 4:00 am
Sample : wg1184858-3,42e,,

QMethod : P16_pcb_08_09i_18_ugL_IC
Operator : pest16:ht
Instrument : PEST16
Quant Date : 12/7/2018 0:18 am

Compound #6: 1016-3





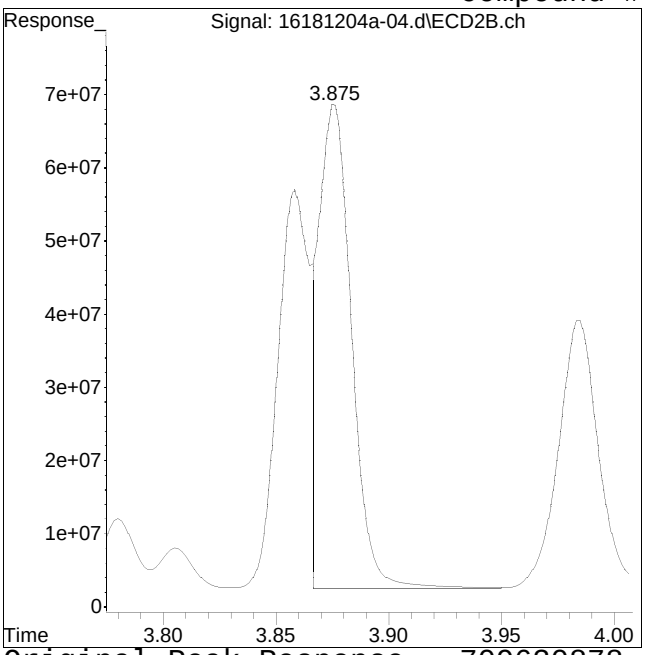
Original Peak Response = 552280877 Manual Peak Response = 968774985 M4
M4 = Poor automated baseline construction.

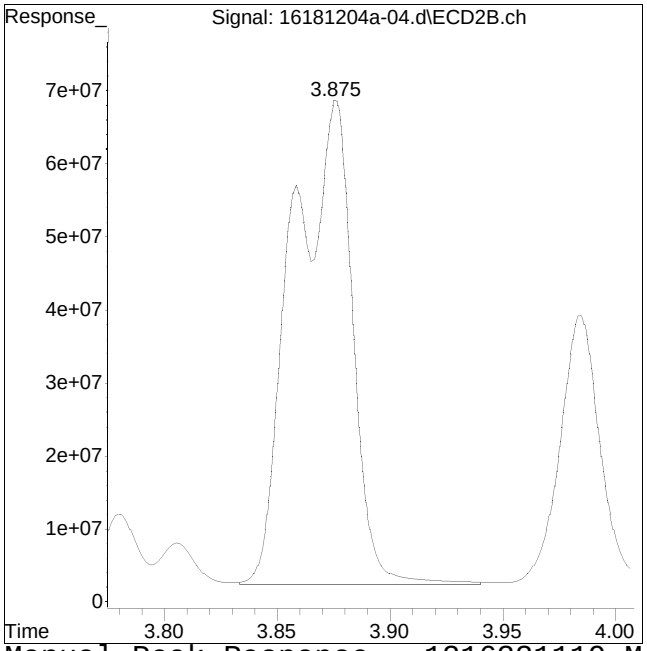
Manual Integration Report

Data Path : I:\Pest16\181204A\
Data File : 16181204a-04.d
Date Inj'd : 12/4/2018 4:00 am
Sample : wg1184858-3,42e,,

QMethod : P16_pcb_08_09i_18_ugL_IC
Operator : pest16:ht
Instrument : PEST16
Quant Date : 12/7/2018 0:18 am

Compound #55: 1016-3 #2





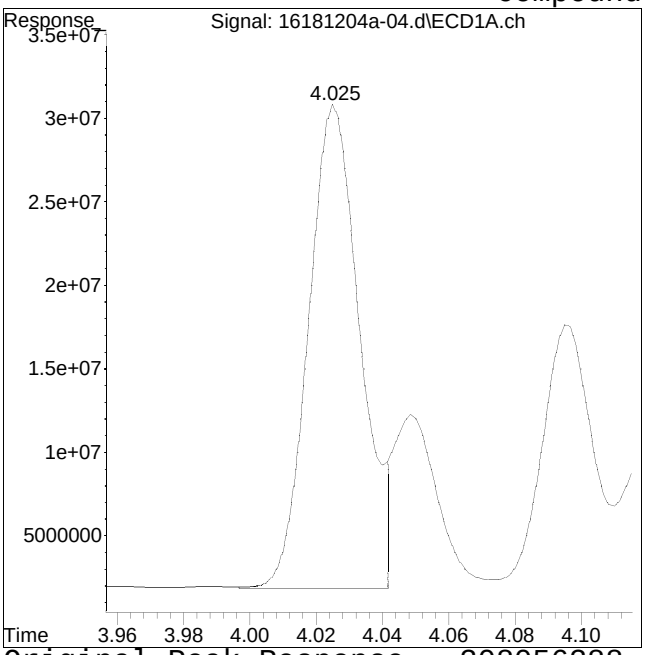
Original Peak Response = 709630878 Manual Peak Response = 1216331119 M4
M4 = Poor automated baseline construction.

Manual Integration Report

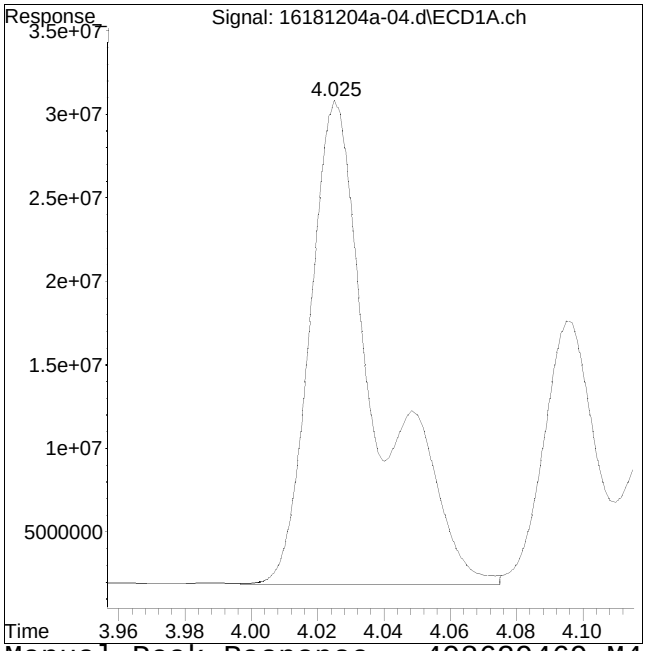
Data Path : I:\Pest16\181204A\
Data File : 16181204a-04.d
Date Inj'd : 12/4/2018 4:00 am
Sample : wg1184858-3,42e,,

QMethod : P16_pcb_08_09i_18_ugL_IC
Operator : pest16:ht
Instrument : PEST16
Quant Date : 12/7/2018 0:18 am

Compound #8: 1016-5



Original Peak Response = 308056388



Manual Peak Response = 408629469 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\181204A\
Data File : P7181204a-21.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2018 7:37 am
Operator : pest7:wr
Sample : wg1184841-3,42e,,
Misc : wg1185226,wg1184841,ical14857
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 15:00:25 2018
Quant Method : I:\Pest7\181206A\P7_pcb_04_10_18_ugL_ICAL14857.m
Quant Title : pcb
QLast Update : Thu Dec 06 11:14:43 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest7\181204A\P7181204a-01.d
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Internal Standards						
1) i 1660_1br2nb	1.940	1.985	680.5E6	500.0E6	250.000	250.000
Standard Area 1 : #1 = 546245976				Recovery =	124.58%	
Standard Area 1 : #2 = 409200022				Recovery =	122.19%	
System Monitoring Compounds						
2) s 2,4,5,6-Tetr	2.392	2.549	1131.6E6	847.4E6	345.975	368.167
Spiked Amount 500.000	Range 30 - 150		Recovery =		69.20%	73.63%
3) s Decachlorobi	6.354	6.827	693.1E6	506.9E6	309.276	335.659
Spiked Amount 500.000	Range 30 - 150		Recovery =		61.86%	67.13%
Target Compounds						
4) l1 1016-2	2.844	3.159	274.9E6	211.9E6	2054.776	2081.176
5) l1 1016-3	3.167	3.515	358.1E6	269.6E6	2438.841M3	2440.556
6) l1 1016-4	3.262	3.620	255.7E6	168.2E6	2389.735	2261.989
7) l1 1016-5	3.565	4.003	187.4E6	141.0E6	2089.564M3	2302.425
Sum 1016-2			1076.1E6	790.8E6	8972.917	9086.145
Average 1016-2					2243.229	2271.536
8) l2 1260-1	4.526	4.989	317.2E6	225.0E6	1930.814	2080.854
9) l2 1260-2	4.736	5.142	478.0E6	269.3E6	2028.161	2161.151
10) l2 1260-3	5.207	5.664	296.4E6	225.2E6	1975.816	2235.976
11) l2 1260-4	5.426	5.834	688.7E6	453.7E6	2075.044	2274.105
12) l2 1260-5	5.623	6.077	449.9E6	302.8E6	2084.879M3	2176.069
Sum 1260-1			2230.2E6	1476.1E6	10094.714	10928.156
Average 1260-1					2018.943	2185.631
Sum 1221-1			0	0	N.D.	N.D.
Average 1221-1					0.000	0.000
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\181204A\
Data File : P7181204a-21.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2018 7:37 am
Operator : pest7:wr
Sample : wg1184841-3,42e,,
Misc : wg1185226,wg1184841,ical14857
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 15:00:25 2018
Quant Method : I:\Pest7\181206A\P7_pcb_04_10_18_ugL_ICAL14857.m
Quant Title : pcb
QLast Update : Thu Dec 06 11:14:43 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest7\181204A\P7181204a-01.d
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

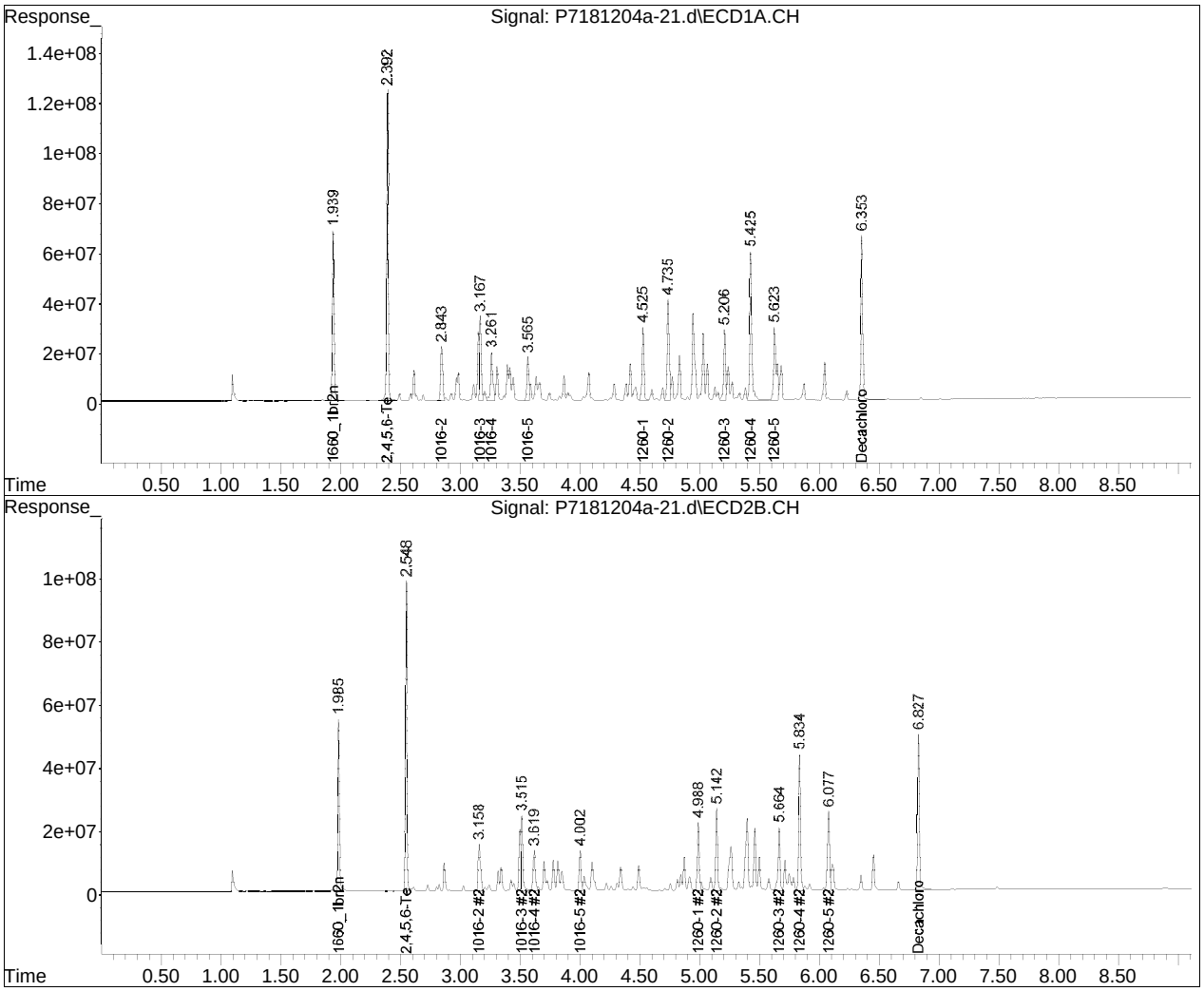
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : 1660 - 16607\181204A\P7181204a-01.d••ed)

Data Path : I:\Pest7\181204A\
Data File : P7181204a-21.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2018 7:37 am
Operator : pest7:wr
Sample : wg1184841-3,42e,,
Misc : wg1185226,wg1184841,ical14857
ALS Vial : 21 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 15:00:25 2018
Quant Method : I:\Pest7\181206A\P7_pcb_04_10_18_ugL_ICAL14857.m
Quant Title : pcb
QLast Update : Thu Dec 06 11:14:43 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

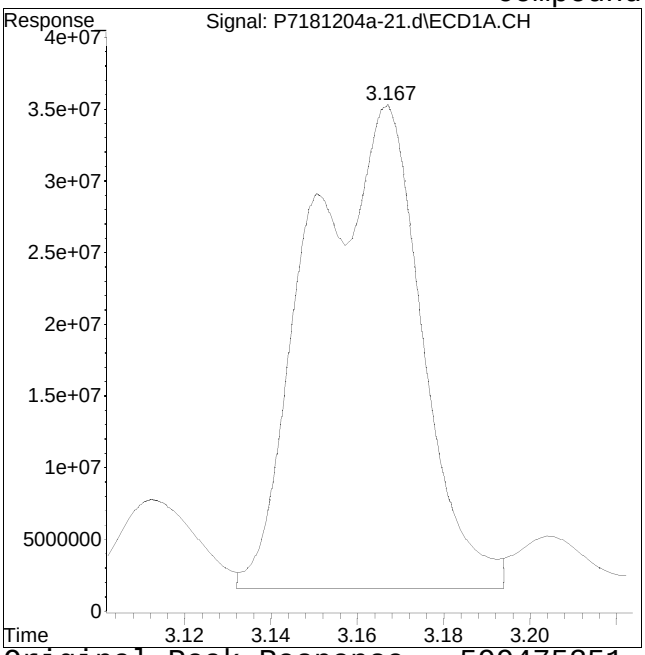


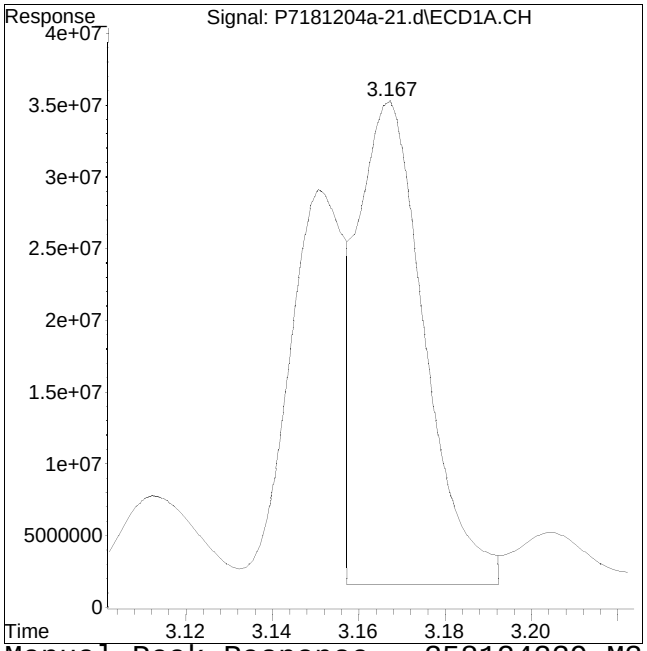
Manual Integration Report

Data Path : I:\Pest7\181204A\
Data File : P7181204a-21.d
Date Inj'd : 12/4/2018 7:37 am
Sample : wg1184841-3,42e,,

QMethod : P7_pcb_04_10_18_ugL_ICAL
Operator : pest7:wr
Instrument : Pest 7
Quant Date : 12/6/2018 2:09 pm

Compound #5: 1016-3





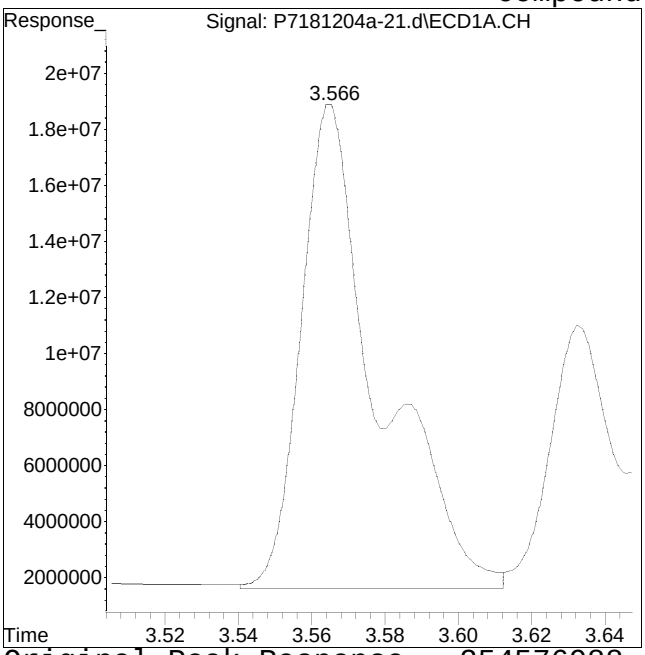
Original Peak Response = 599475351 Manual Peak Response = 358124239 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

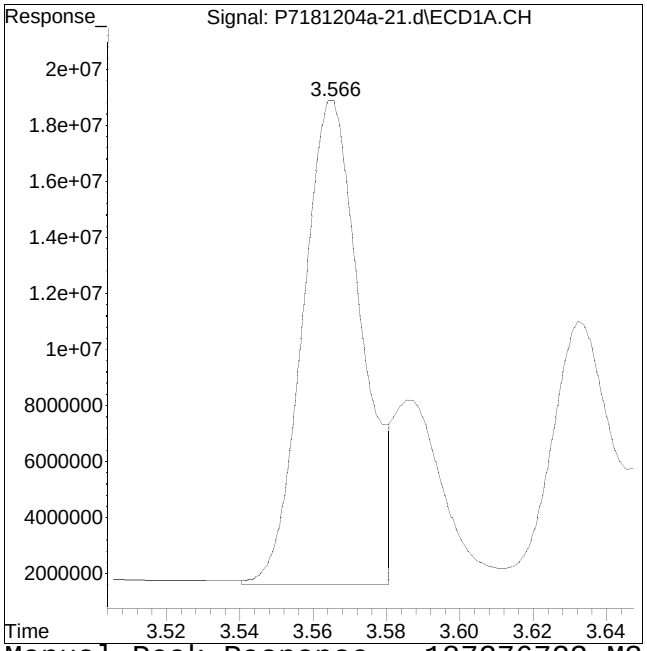
Manual Integration Report

Data Path : I:\Pest7\181204A\
Data File : P7181204a-21.d
Date Inj'd : 12/4/2018 7:37 am
Sample : wg1184841-3,42e,,

QMethod : P7_pcb_04_10_18_ugL_ICAL
Operator : pest7:wr
Instrument : Pest 7
Quant Date : 12/6/2018 2:09 pm

Compound #7: 1016-5





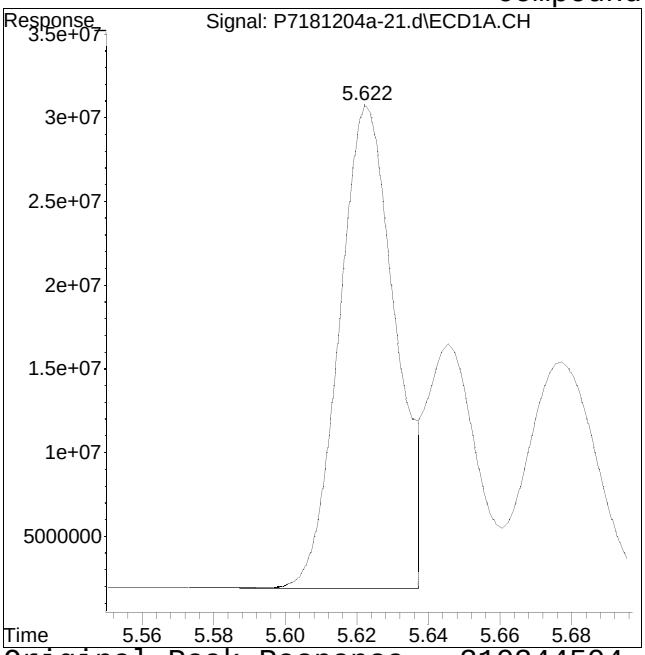
Original Peak Response = 254576988 Manual Peak Response = 187376723 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

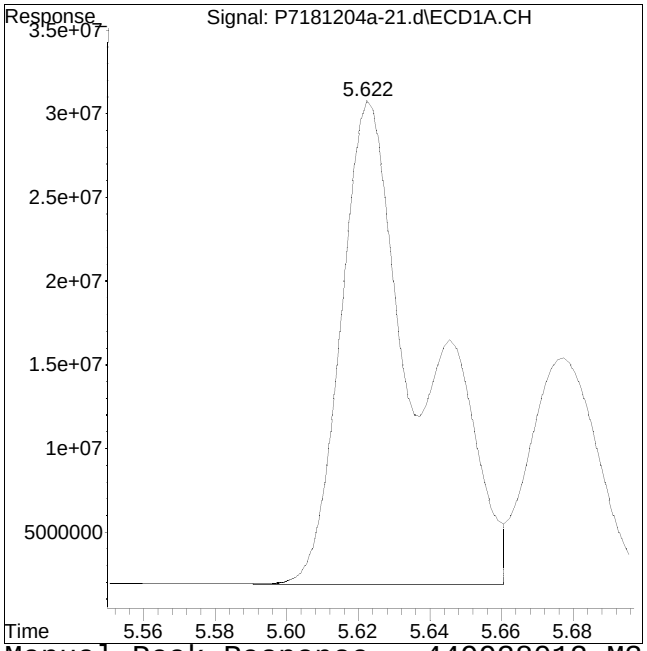
Manual Integration Report

Data Path : I:\Pest7\181204A\
Data File : P7181204a-21.d
Date Inj'd : 12/4/2018 7:37 am
Sample : wg1184841-3,42e,,

QMethod : P7_pcb_04_10_18_ugL_ICAL
Operator : pest7:wr
Instrument : Pest 7
Quant Date : 12/6/2018 2:09 pm

Compound #12: 1260-5





Original Peak Response = 310344504 Manual Peak Response = 449938012 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\181204A\
Data File : P7181204a-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2018 3:45 am
Operator : pest7:wr
Sample : wg1184841-6,42e,,
Misc : wg1185226,wg1184841,ical14857
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 14:54:22 2018
Quant Method : I:\Pest7\181206A\P7_pcb_04_10_18_ugL_ICAL14857.m
Quant Title : pcb
QLast Update : Thu Dec 06 11:14:43 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest7\181204A\P7181204a-01.d
Sub List : 1660 - 1660

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.941	1.985	689.1E6	497.0E6	250.000	250.000
	Standard Area 1 : #1 = 546245976				Recovery =	126.15%	
	Standard Area 1 : #2 = 409200022				Recovery =	121.45%	
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.394	2.549	1127.3E6	863.4E6	340.383	377.374
	Spiked Amount 500.000	Range 30 - 150		Recovery =		68.08%	75.47%
3) s	Decachlorobi	6.359	6.829	674.7E6	496.3E6	297.342	330.590
	Spiked Amount 500.000	Range 30 - 150		Recovery =		59.47%	66.12%
	Target Compounds						
4) l1	1016-2	2.847	3.159	291.6E6	225.6E6	2152.136	2229.242
5) l1	1016-3	3.171	3.516	382.3E6	262.7E6	2571.146M3	2392.600
6) l1	1016-4	3.266	3.621	262.0E6	175.9E6	2418.683	2379.731
7) l1	1016-5	3.569	4.004	197.6E6	152.8E6	2176.273M3	2509.886
	Sum 1016-2			1133.4E6	817.1E6	9318.237	9511.459
Average	1016-2					2329.559	2377.865
8) l2	1260-1	4.531	4.991	324.6E6	241.0E6	1951.488	2242.400
9) l2	1260-2	4.741	5.144	507.1E6	286.4E6	2124.965	2312.173
10) l2	1260-3	5.211	5.667	299.3E6	227.9E6	1970.490	2276.193
11) l2	1260-4	5.430	5.836	686.3E6	460.3E6	2042.325	2320.782
12) l2	1260-5	5.627	6.079	446.9E6	309.5E6	2045.221M3	2237.303
	Sum 1260-1			2264.2E6	1525.1E6	10134.489	11388.853
Average	1260-1					2026.898	2277.771
	Sum 1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
	Sum 1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\181204A\
Data File : P7181204a-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2018 3:45 am
Operator : pest7:wr
Sample : wg1184841-6,42e,,
Misc : wg1185226,wg1184841,ical14857
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 14:54:22 2018
Quant Method : I:\Pest7\181206A\P7_pcb_04_10_18_ugL_ICAL14857.m
Quant Title : pcb
QLast Update : Thu Dec 06 11:14:43 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest7\181204A\P7181204a-01.d
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

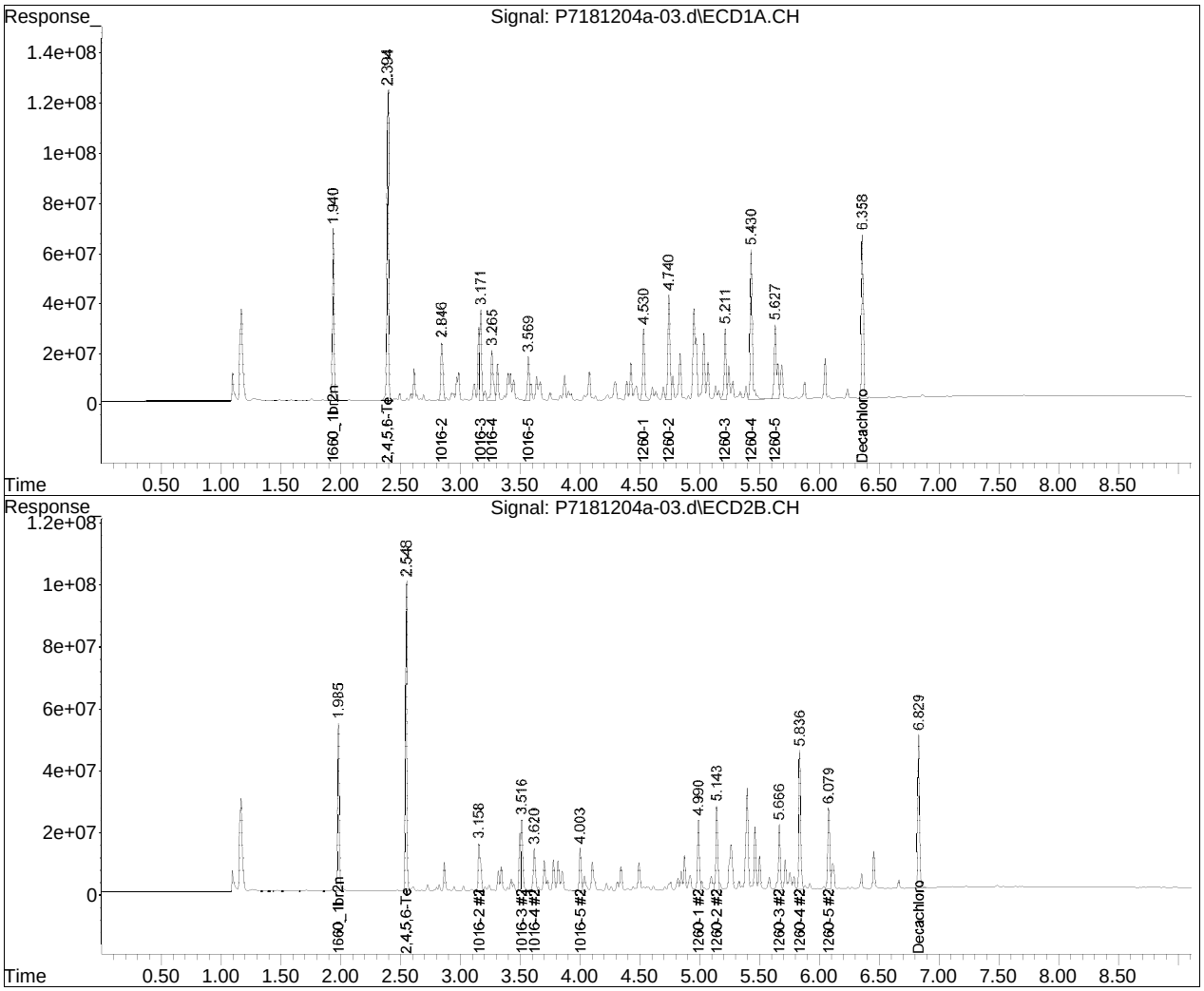
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : 1660 - 16607\181204A\P7181204a-01.d••ed)

Data Path : I:\Pest7\181204A\
Data File : P7181204a-03.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2018 3:45 am
Operator : pest7:wr
Sample : wg1184841-6,42e,,
Misc : wg1185226,wg1184841,ical14857
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 14:54:22 2018
Quant Method : I:\Pest7\181206A\P7_pcb_04_10_18_ugL_ICAL14857.m
Quant Title : pcb
QLast Update : Thu Dec 06 11:14:43 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

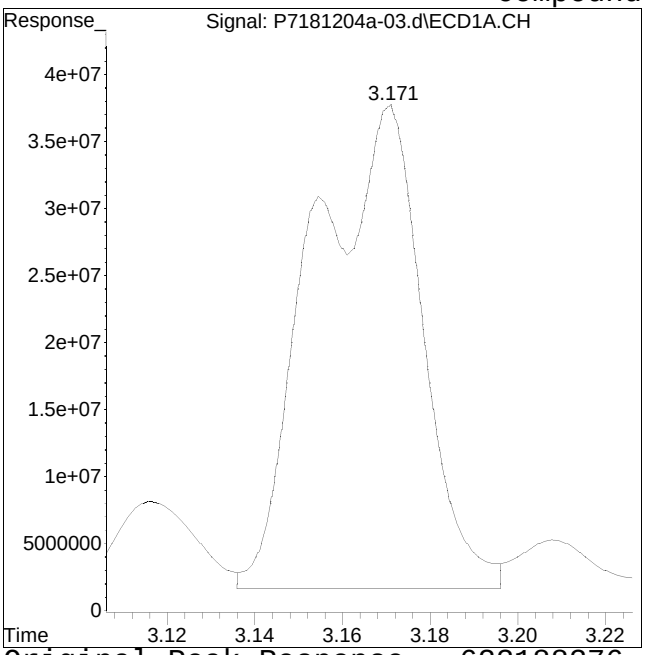


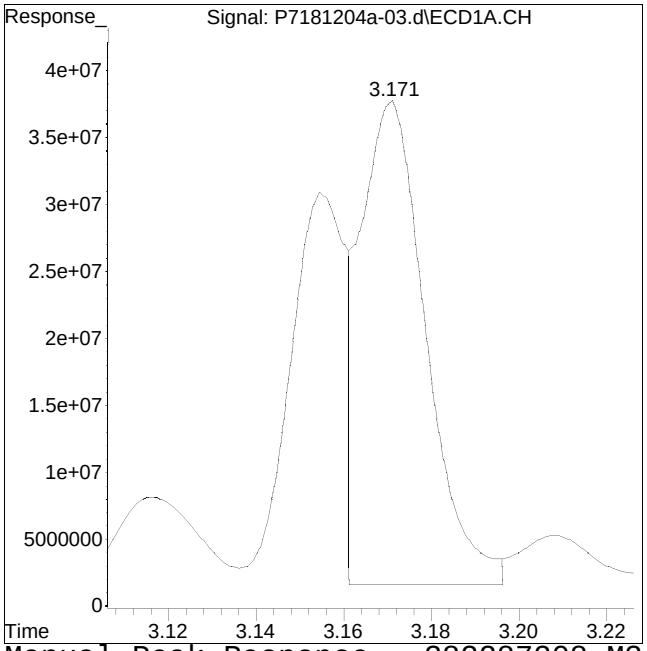
Manual Integration Report

Data Path : I:\Pest7\181204A\
Data File : P7181204a-03.d
Date Inj'd : 12/4/2018 3:45 am
Sample : wg1184841-6,42e,,

QMethod : P7_pcb_04_10_18_ugL_ICAL
Operator : pest7:wr
Instrument : Pest 7
Quant Date : 12/6/2018 2:08 pm

Compound #5: 1016-3





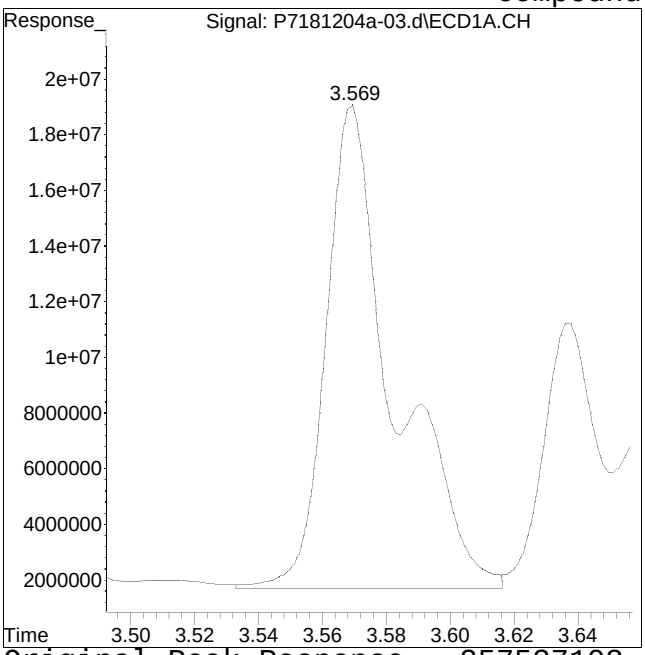
Original Peak Response = 623188376 Manual Peak Response = 382287208 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

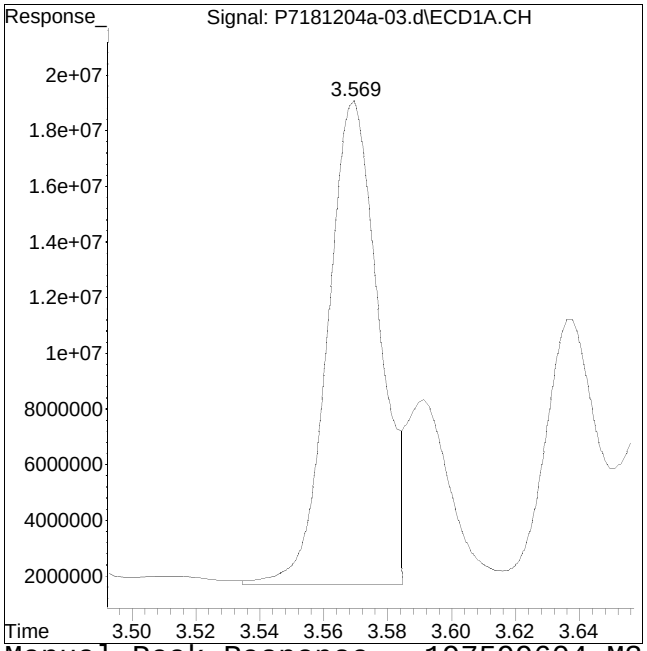
Manual Integration Report

Data Path : I:\Pest7\181204A\
Data File : P7181204a-03.d
Date Inj'd : 12/4/2018 3:45 am
Sample : wg1184841-6,42e,,

QMethod : P7_pcb_04_10_18_ugL_ICAL
Operator : pest7:wr
Instrument : Pest 7
Quant Date : 12/6/2018 2:08 pm

Compound #7: 1016-5





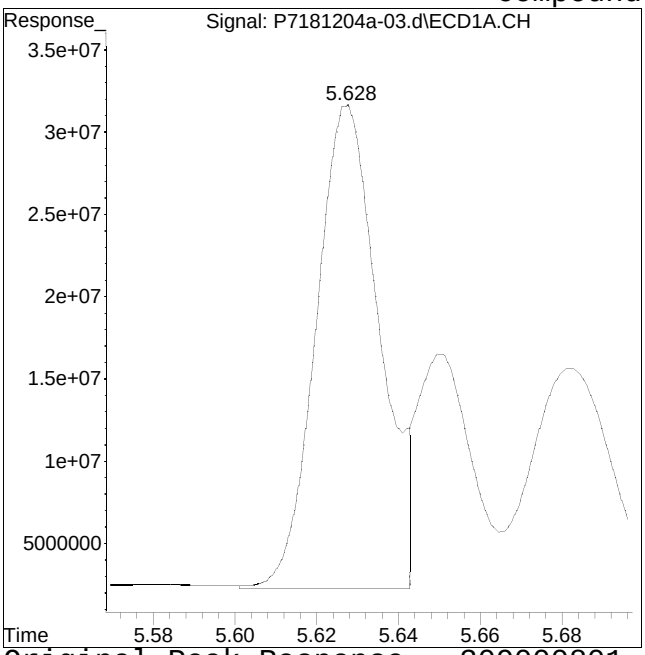
Original Peak Response = 257537103 Manual Peak Response = 197599604 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

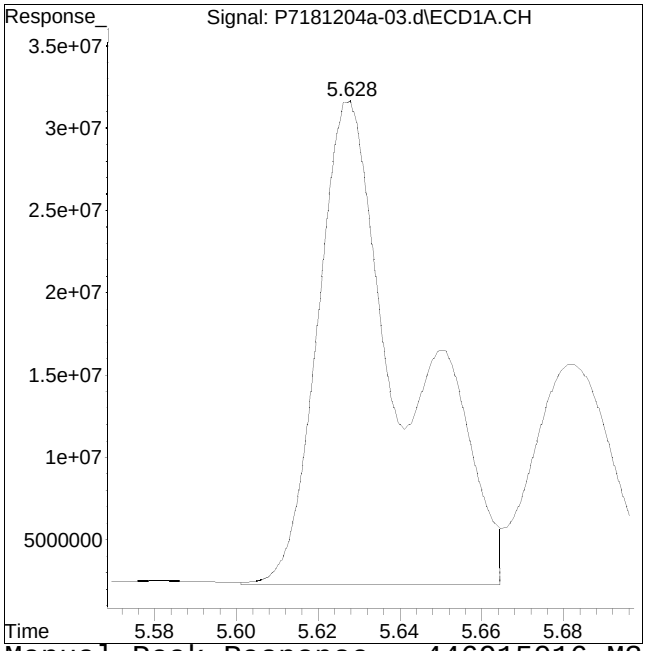
Manual Integration Report

Data Path : I:\Pest7\181204A\
Data File : P7181204a-03.d
Date Inj'd : 12/4/2018 3:45 am
Sample : wg1184841-6,42e,,

QMethod : P7_pcb_04_10_18_ugL_ICAL
Operator : pest7:wr
Instrument : Pest 7
Quant Date : 12/6/2018 2:08 pm

Compound #12: 1260-5





Original Peak Response = 309000801 Manual Peak Response = 446915016 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\181204A\
Data File : P7181204a-24.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2018 8:16 am
Operator : pest7:wr
Sample : wg1184841-4,42e,,
Misc : wg1185226,wg1184841,ical14857
ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 15:18:55 2018
Quant Method : I:\Pest7\181206A\P7_pcb_04_10_18_ugL_ICAL14857.m
Quant Title : pcb
QLast Update : Thu Dec 06 11:14:43 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest7\181204A\P7181204a-22.d
Sub List : 1660 - 1660

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.943	1.988	577.3E6	456.2E6	250.000	250.000
	Standard Area 1 : #1 = 600567641				Recovery =		96.12%
	Standard Area 1 : #2 = 451289888				Recovery =		101.09%
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.395	2.551	840.5E6	771.4E6	302.954	367.273
	Spiked Amount 500.000	Range 30 - 150		Recovery =		60.59%	73.45%
3) s	Decachlorobi	6.393f	6.853f	640.9E6	657.6E6	337.193M4	477.224M4
	Spiked Amount 500.000	Range 30 - 150		Recovery =		67.44%	95.44%
	Target Compounds						
4) l1	1016-2	2.847	3.161	337.9E6	273.3E6	2977.079	2941.028
5) l1	1016-3	3.170	3.518	638.1E6	496.5E6	5122.682M3	4925.439M3
6) l1	1016-4	3.265	3.623	354.1E6	290.5E6	3902.202	4281.553
7) l1	1016-5	3.569	4.006	445.9E6	374.6E6	5861.675	6702.748
	Sum 1016-2			1775.9E6	1434.9E6	17863.639	18850.769
	Average 1016-2					4465.910	4712.692
8) l2	1260-1	4.534	4.996f	808.2E6	822.8E6	5800.184	8338.962
9) l2	1260-2	4.747f	5.151f	1463.8E6	912.8E6	7322.094M4	8028.826M4
10) l2	1260-3	5.219f	5.672f	752.9E6	501.6E6	5916.735	5457.062M4
11) l2	1260-4	5.444f	5.846f	1528.3E6	1156.9E6	5428.693M4	6355.173M4
12) l2	1260-5	5.641f	6.089f	1116.7E6	955.0E6	6099.960M4	7521.408M4
	Sum 1260-1			5669.8E6	4349.2E6	30567.666	35701.431
	Average 1260-1					6113.533	7140.286

Data Path : I:\Pest7\181204A\
Data File : P7181204a-24.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2018 8:16 am
Operator : pest7:wr
Sample : wg1184841-4,42e,,
Misc : wg1185226,wg1184841,ical14857
ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 15:18:55 2018
Quant Method : I:\Pest7\181206A\P7_pcb_04_10_18_ugL_ICAL14857.m
Quant Title : pcb
QLast Update : Thu Dec 06 11:14:43 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest7\181204A\P7181204a-22.d
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum 1221-1			0	0	N.D.	N.D.
Average 1221-1					0.000	0.000
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

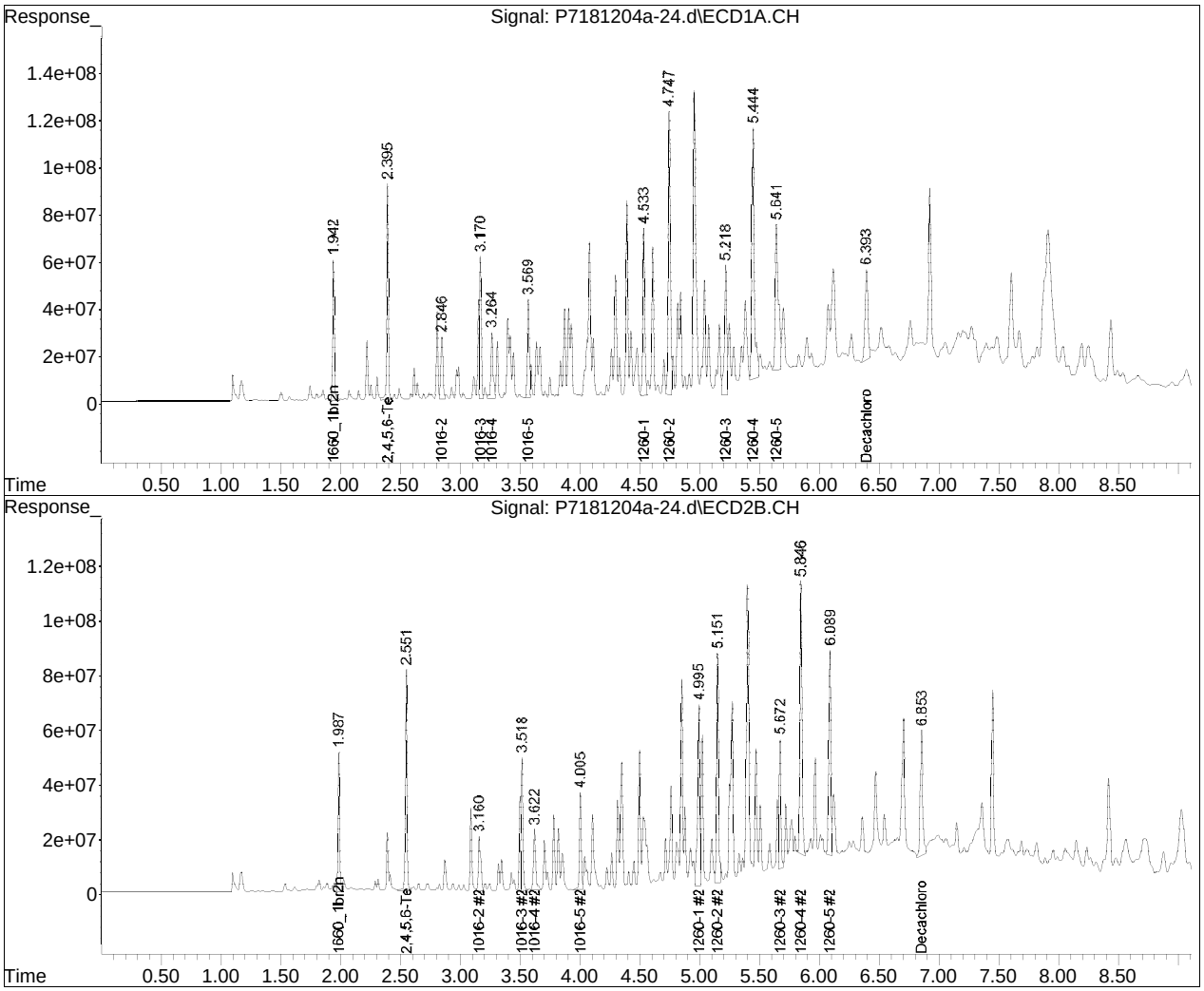
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : 1660 - 16607\181204A\P7181204a-22.d••ed)

Data Path : I:\Pest7\181204A\
Data File : P7181204a-24.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2018 8:16 am
Operator : pest7:wr
Sample : wg1184841-4,42e,,
Misc : wg1185226,wg1184841,ical14857
ALS Vial : 24 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 15:18:55 2018
Quant Method : I:\Pest7\181206A\P7_pcb_04_10_18_ugL_ICAL14857.m
Quant Title : pcb
QLast Update : Thu Dec 06 11:14:43 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

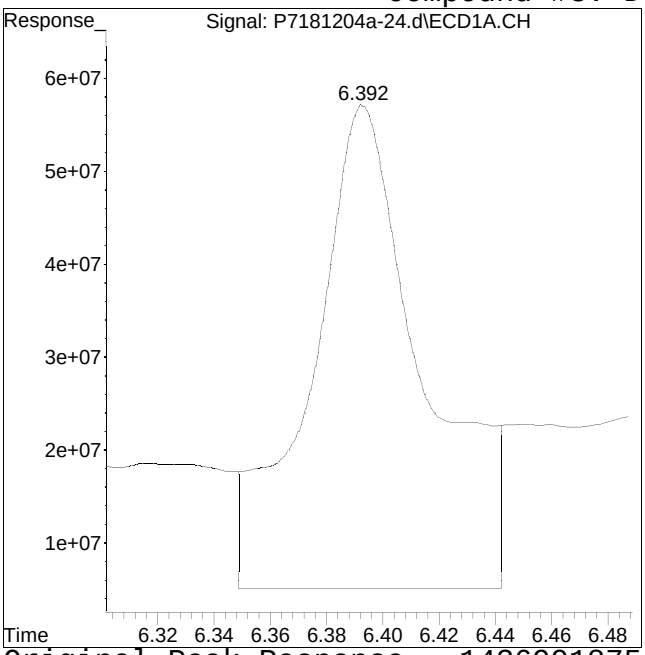


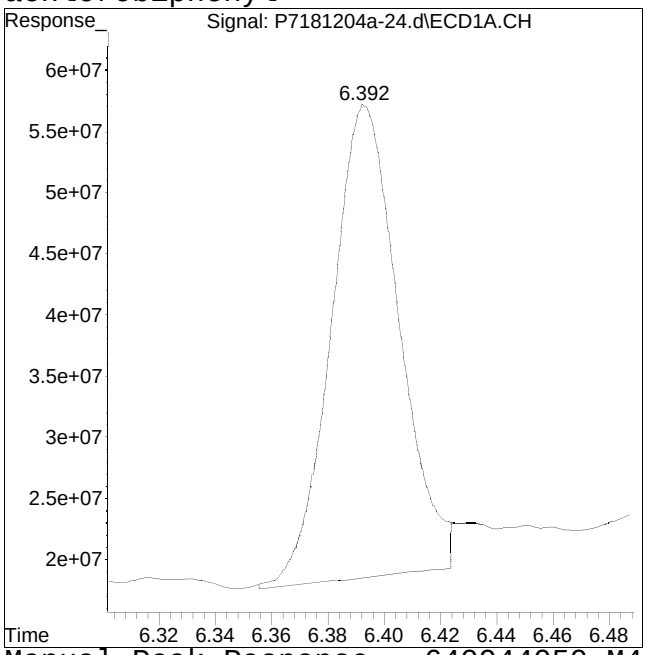
Manual Integration Report

Data Path : I:\Pest7\181204A\
Data File : P7181204a-24.d
Date Inj'd : 12/4/2018 8:16 am
Sample : wg1184841-4,42e,,

QMethod : P7_pcb_04_10_18_ugL_ICAL
Operator : pest7:wr
Instrument : Pest 7
Quant Date : 12/6/2018 2:09 pm

Compound #3: Decachlorobiphenyl





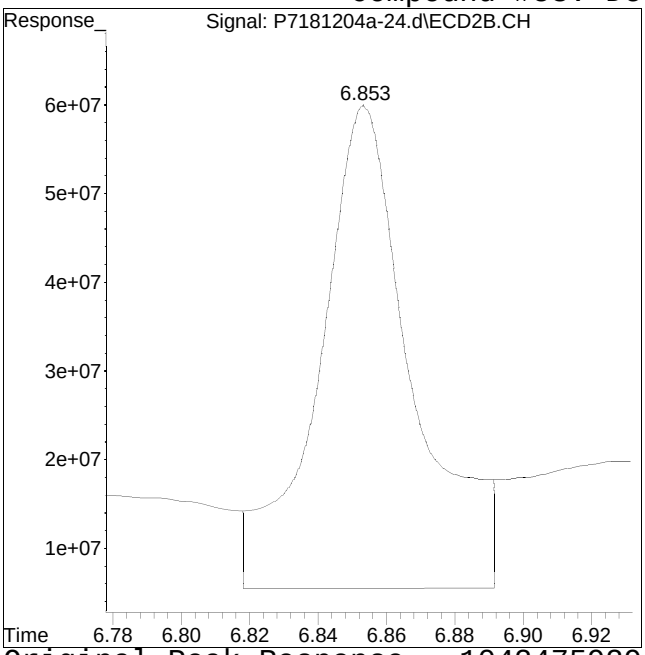
Original Peak Response = 1436991875 Manual Peak Response = 640944050 M4
M4 = Poor automated baseline construction.

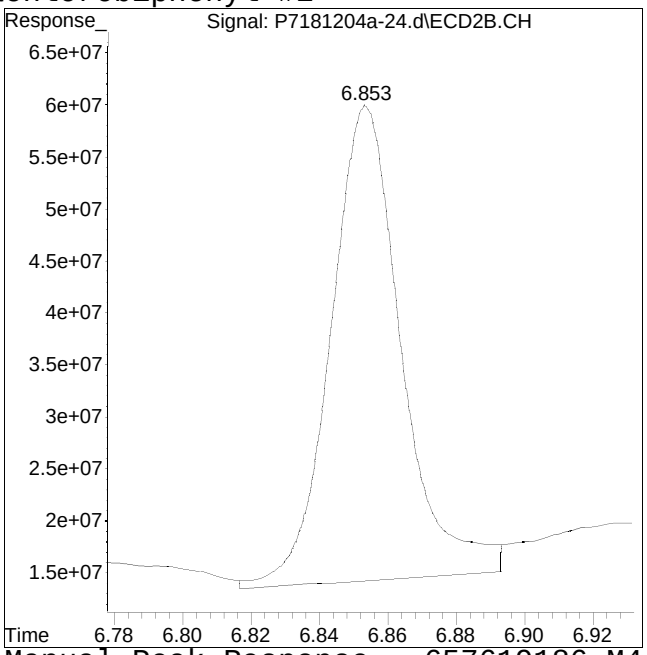
Manual Integration Report

Data Path : I:\Pest7\181204A\
Data File : P7181204a-24.d
Date Inj'd : 12/4/2018 8:16 am
Sample : wg1184841-4,42e,,

QMethod : P7_pcb_04_10_18_ugL_ICAL
Operator : pest7:wr
Instrument : Pest 7
Quant Date : 12/6/2018 2:09 pm

Compound #53: Decachlorobiphenyl #2





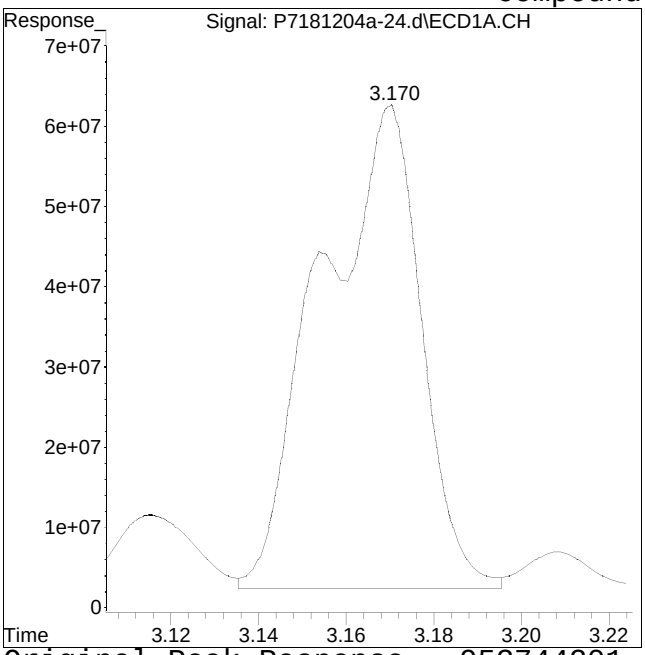
Original Peak Response = 1042475929 Manual Peak Response = 657619186 M4
M4 = Poor automated baseline construction.

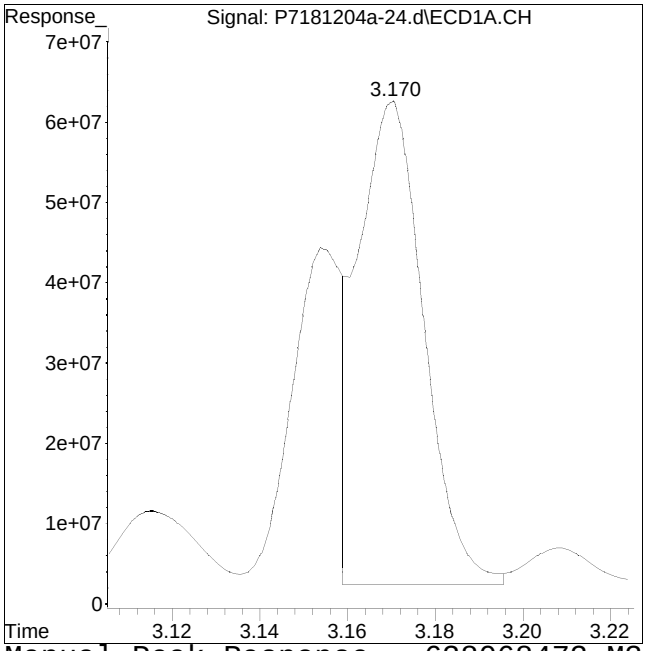
Manual Integration Report

Data Path : I:\Pest7\181204A\
Data File : P7181204a-24.d
Date Inj'd : 12/4/2018 8:16 am
Sample : wg1184841-4,42e,,

QMethod : P7_pcb_04_10_18_ugL_ICAL
Operator : pest7:wr
Instrument : Pest 7
Quant Date : 12/6/2018 2:09 pm

Compound #5: 1016-3





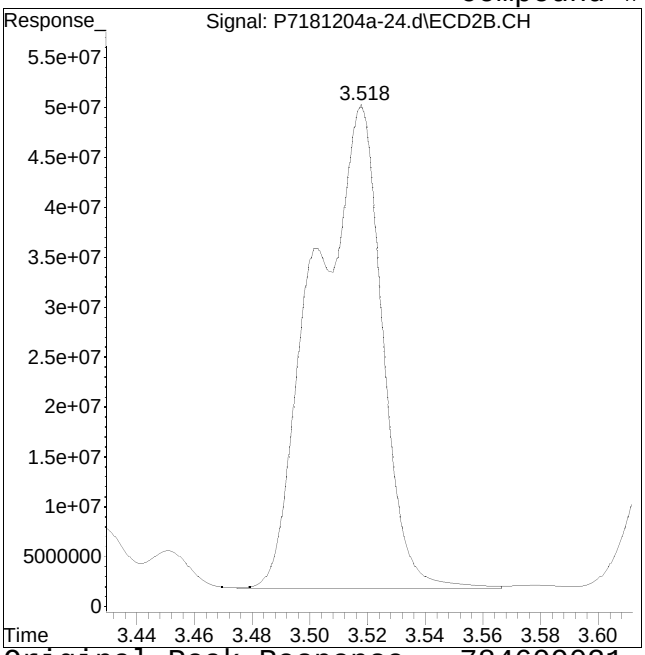
Original Peak Response = 953744201 Manual Peak Response = 638068473 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

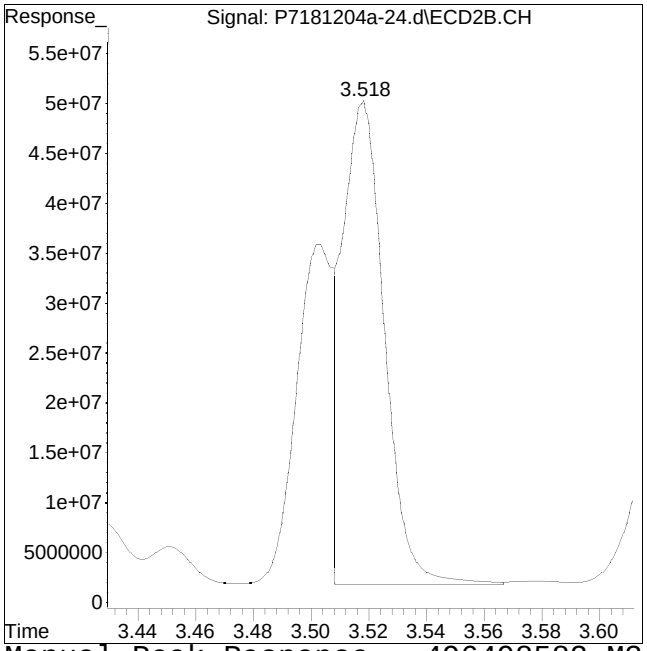
Manual Integration Report

Data Path : I:\Pest7\181204A\
Data File : P7181204a-24.d
Date Inj'd : 12/4/2018 8:16 am
Sample : wg1184841-4,42e,,

QMethod : P7_pcb_04_10_18_ugL_ICAL
Operator : pest7:wr
Instrument : Pest 7
Quant Date : 12/6/2018 2:09 pm

Compound #55: 1016-3 #2





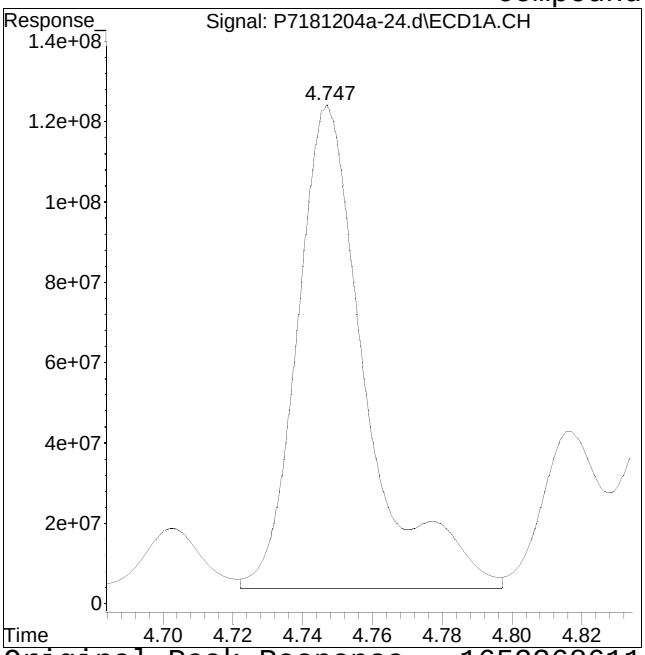
Original Peak Response = 784609021 Manual Peak Response = 496498582 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

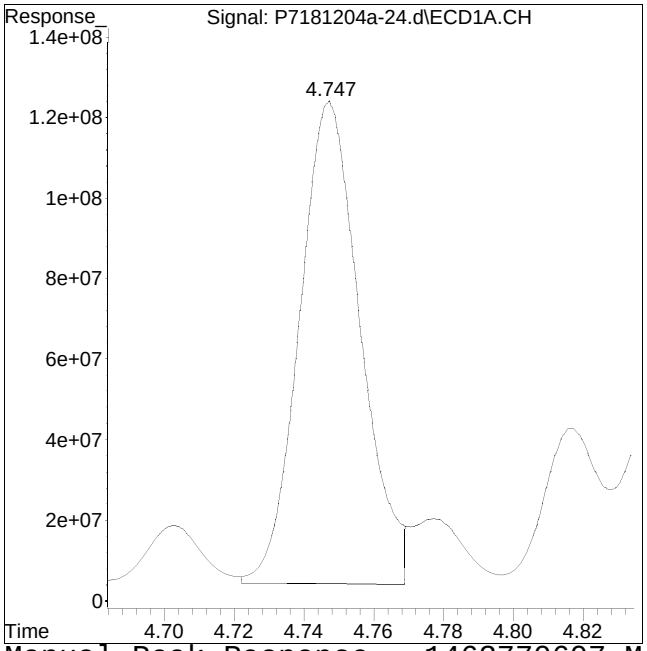
Manual Integration Report

Data Path : I:\Pest7\181204A\
Data File : P7181204a-24.d
Date Inj'd : 12/4/2018 8:16 am
Sample : wg1184841-4,42e,,

QMethod : P7_pcb_04_10_18_ugL_ICAL
Operator : pest7:wr
Instrument : Pest 7
Quant Date : 12/6/2018 2:09 pm

Compound #9: 1260-2





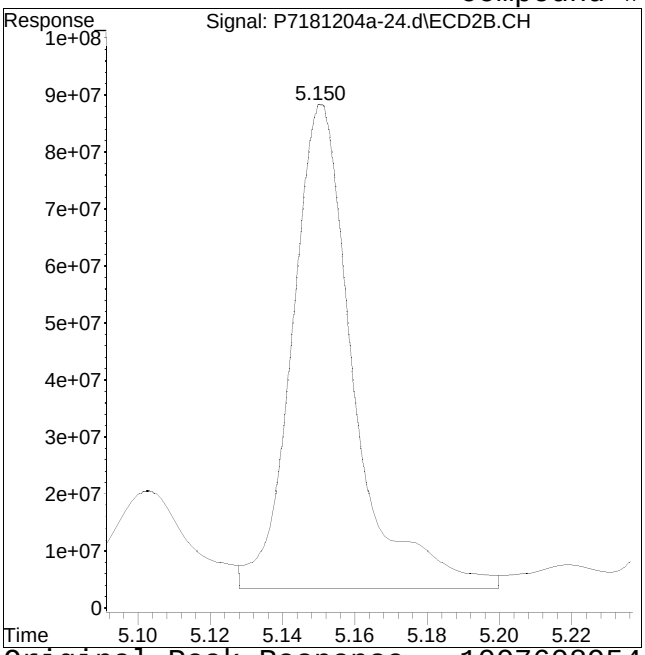
Original Peak Response = 1652368611 Manual Peak Response = 1463770607 M4
M4 = Poor automated baseline construction.

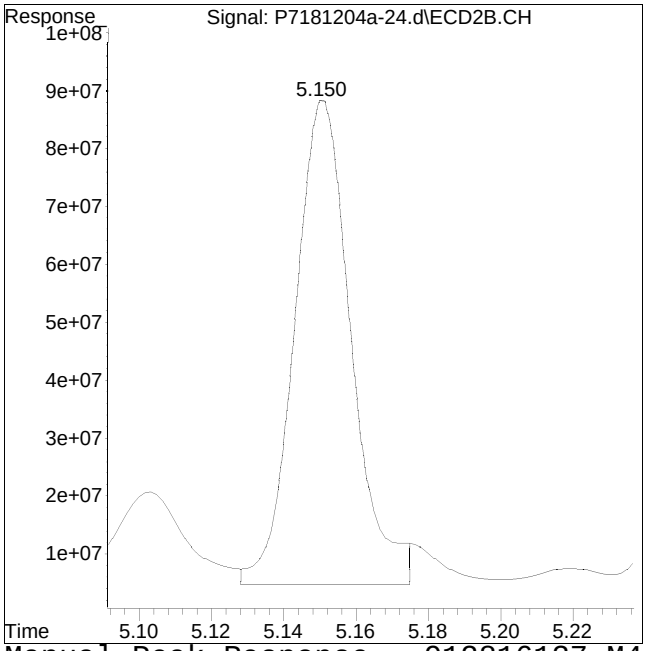
Manual Integration Report

Data Path : I:\Pest7\181204A\
Data File : P7181204a-24.d
Date Inj'd : 12/4/2018 8:16 am
Sample : wg1184841-4,42e,,

QMethod : P7_pcb_04_10_18_ugL_ICAL
Operator : pest7:wr
Instrument : Pest 7
Quant Date : 12/6/2018 2:09 pm

Compound #59: 1260-2 #2





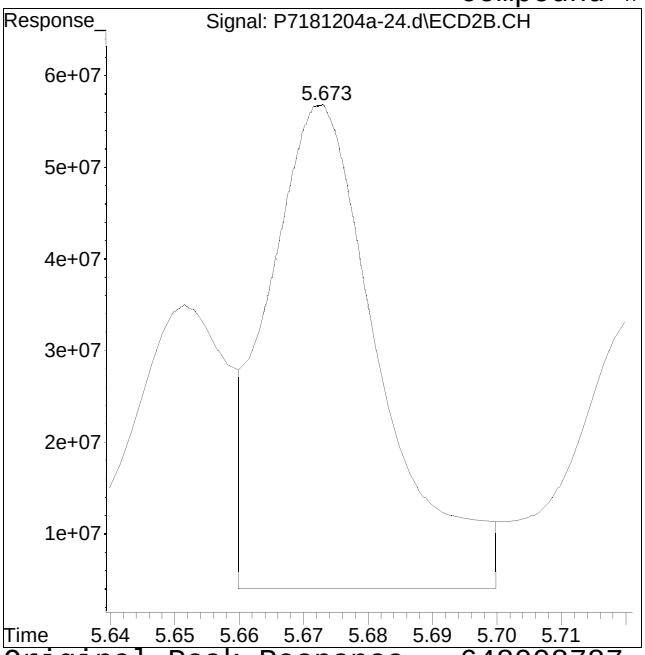
Original Peak Response = 1007608954 Manual Peak Response = 912816137 M4
M4 = Poor automated baseline construction.

Manual Integration Report

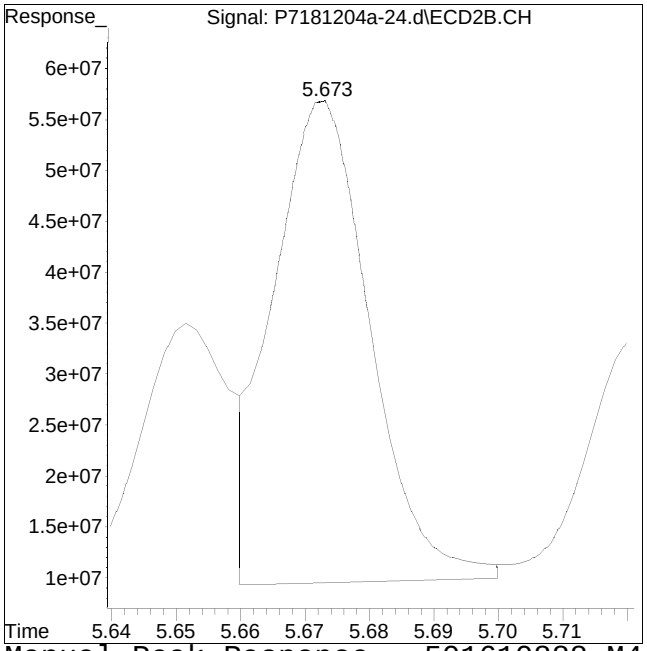
Data Path : I:\Pest7\181204A\
Data File : P7181204a-24.d
Date Inj'd : 12/4/2018 8:16 am
Sample : wg1184841-4,42e,,

QMethod : P7_pcb_04_10_18_ugL_ICAL
Operator : pest7:wr
Instrument : Pest 7
Quant Date : 12/6/2018 2:09 pm

Compound #60: 1260-3 #2



Original Peak Response = 648008787



Manual Peak Response = 501610888 M4

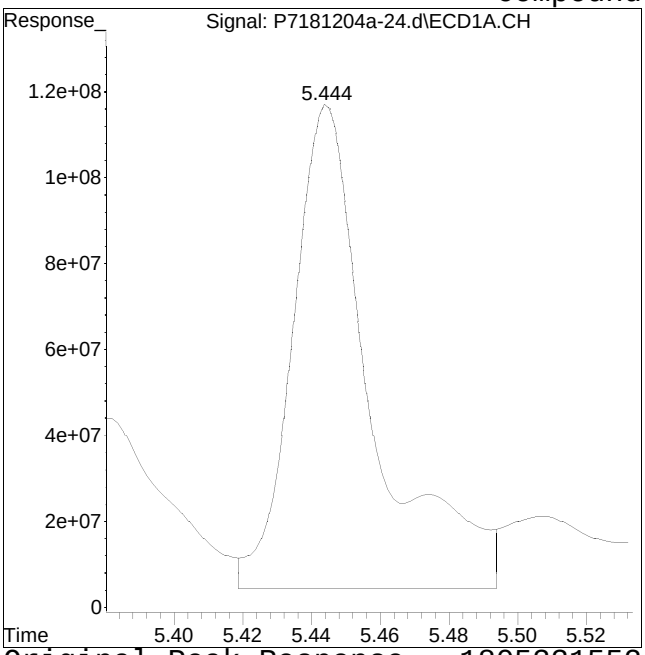
M4 = Poor automated baseline construction.

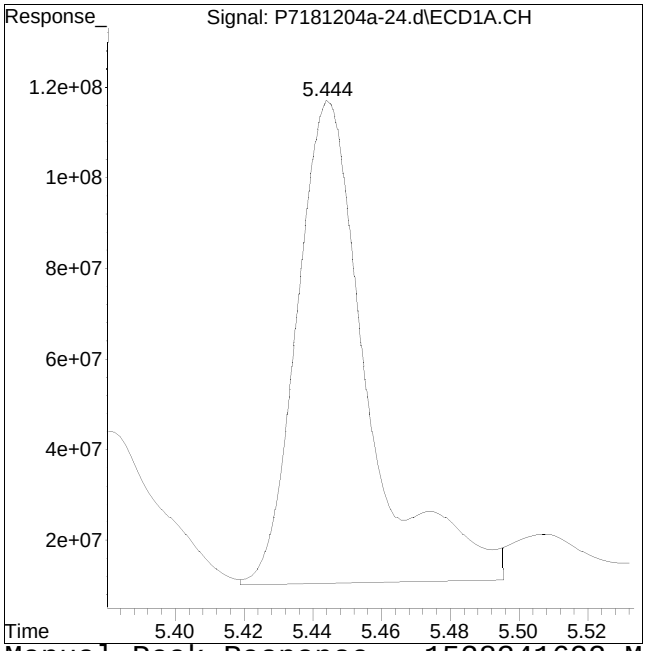
Manual Integration Report

Data Path : I:\Pest7\181204A\
Data File : P7181204a-24.d
Date Inj'd : 12/4/2018 8:16 am
Sample : wg1184841-4,42e,,

QMethod : P7_pcb_04_10_18_ugL_ICAL
Operator : pest7:wr
Instrument : Pest 7
Quant Date : 12/6/2018 2:09 pm

Compound #11: 1260-4





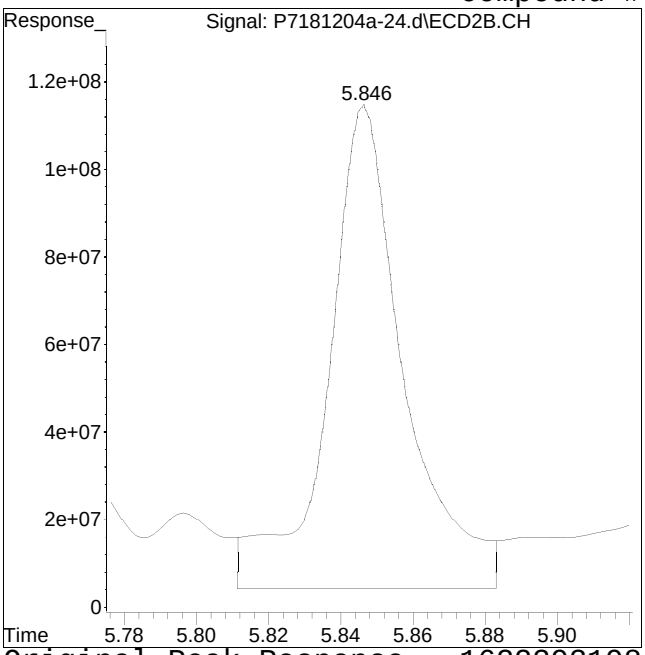
Original Peak Response = 1805331552 Manual Peak Response = 1528341622 M4
M4 = Poor automated baseline construction.

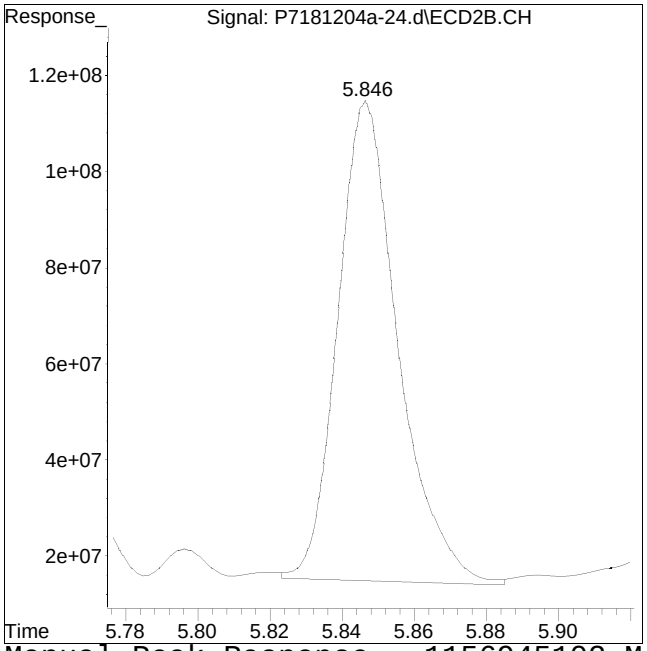
Manual Integration Report

Data Path : I:\Pest7\181204A\
Data File : P7181204a-24.d
Date Inj'd : 12/4/2018 8:16 am
Sample : wg1184841-4,42e,,

QMethod : P7_pcb_04_10_18_ugL_ICAL
Operator : pest7:wr
Instrument : Pest 7
Quant Date : 12/6/2018 2:09 pm

Compound #61: 1260-4 #2





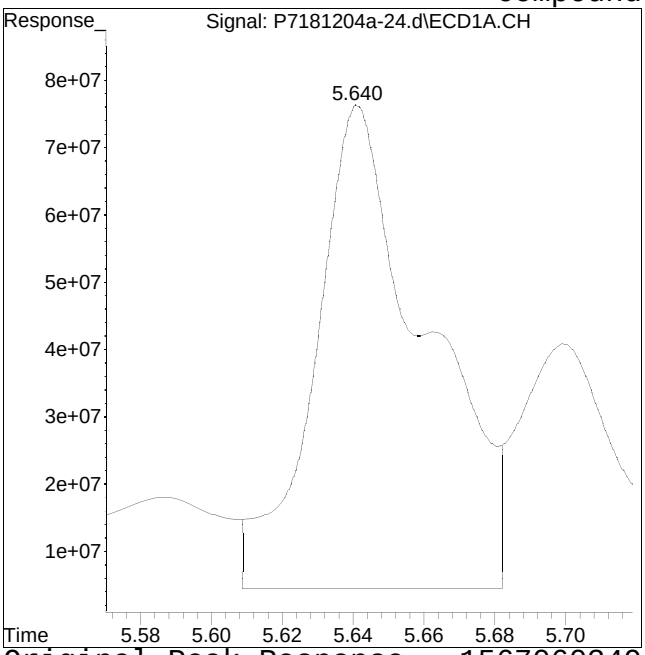
Original Peak Response = 1622393198 Manual Peak Response = 1156945102 M4
M4 = Poor automated baseline construction.

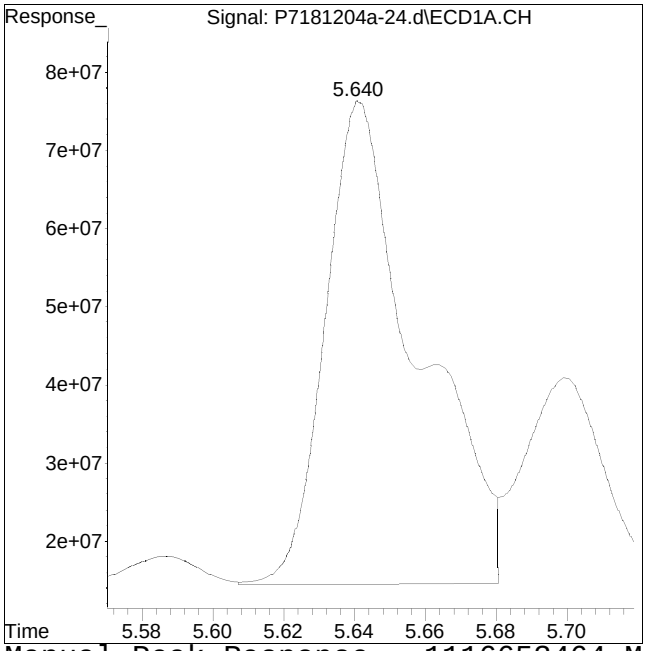
Manual Integration Report

Data Path : I:\Pest7\181204A\
Data File : P7181204a-24.d
Date Inj'd : 12/4/2018 8:16 am
Sample : wg1184841-4,42e,,

QMethod : P7_pcb_04_10_18_ugL_ICAL
Operator : pest7:wr
Instrument : Pest 7
Quant Date : 12/6/2018 2:09 pm

Compound #12: 1260-5





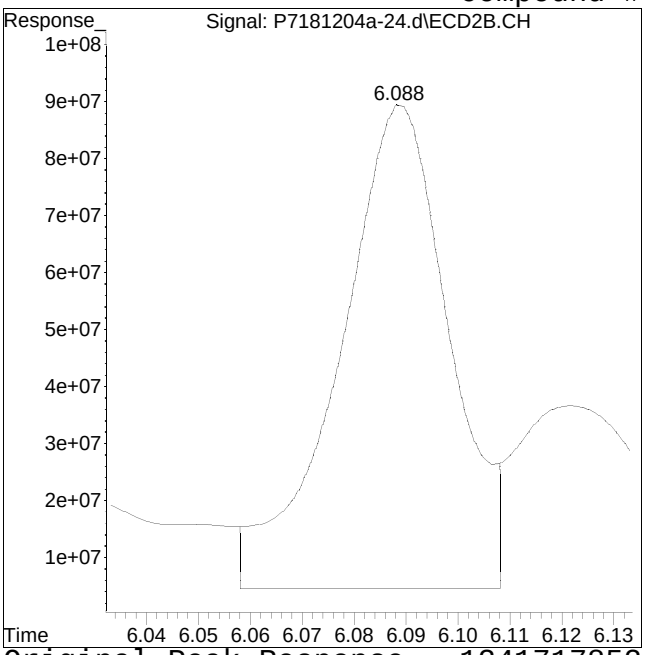
Original Peak Response = 1567060349 Manual Peak Response = 1116653464 M4
M4 = Poor automated baseline construction.

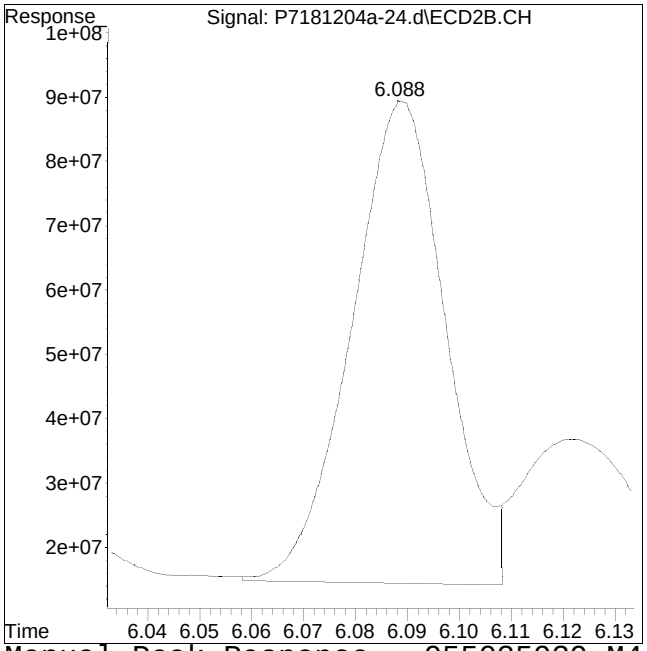
Manual Integration Report

Data Path : I:\Pest7\181204A\
Data File : P7181204a-24.d
Date Inj'd : 12/4/2018 8:16 am
Sample : wg1184841-4,42e,,

QMethod : P7_pcb_04_10_18_ugL_ICAL
Operator : pest7:wr
Instrument : Pest 7
Quant Date : 12/6/2018 2:09 pm

Compound #62: 1260-5 #2





Original Peak Response = 1241717852 Manual Peak Response = 955035939 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\181204A\
Data File : P7181204a-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2018 3:58 am
Operator : pest7:wr
Sample : wg1184841-7,42e,,
Misc : wg1185226,wg1184841,ical14857
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 14:55:46 2018
Quant Method : I:\Pest7\181206A\P7_pcb_04_10_18_ugL_ICAL14857.m
Quant Title : pcb
QLast Update : Thu Dec 06 11:14:43 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest7\181204A\P7181204a-01.d
Sub List : 1660 - 1660

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.940	1.985	703.4E6	505.6E6	250.000	250.000
	Standard Area 1 : #1 = 546245976				Recovery =	128.77%	
	Standard Area 1 : #2 = 409200022				Recovery =	123.55%	
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.393	2.549	1134.2E6	859.0E6	335.498	369.066
	Spiked Amount 500.000	Range 30 - 150		Recovery =		67.10%	73.81%
3) s	Decachlorobi	6.356	6.828	669.8E6	494.6E6	289.193	323.875
	Spiked Amount 500.000	Range 30 - 150		Recovery =		57.84%	64.78%
	Target Compounds						
4) l1	1016-2	2.845	3.158	288.4E6	223.4E6	2085.356	2169.319
5) l1	1016-3	3.168	3.516	361.9E6	261.8E6	2384.201M3	2343.183
6) l1	1016-4	3.263	3.620	247.0E6	173.0E6	2233.338	2300.614
7) l1	1016-5	3.566	4.003	196.9E6	149.3E6	2124.802M3	2410.157
	Sum 1016-2			1094.2E6	807.4E6	8827.698	9223.273
Average	1016-2					2206.924	2305.818
8) l2	1260-1	4.528	4.989	322.5E6	236.0E6	1899.702	2158.167
9) l2	1260-2	4.738	5.143	498.4E6	301.5E6	2045.973	2392.617
10) l2	1260-3	5.208	5.665	295.3E6	223.2E6	1904.714	2191.384
11) l2	1260-4	5.427	5.835	621.1E6	453.0E6	1810.430	2245.325
12) l2	1260-5	5.624	6.078	441.3E6	306.2E6	1978.420M3	2175.959
	Sum 1260-1			2178.7E6	1519.9E6	9639.239	11163.452
Average	1260-1					1927.848	2232.690
	Sum 1221-1			0	0	N.D.	N.D.
Average	1221-1					0.000	0.000
	Sum 1254-1			0	0	N.D.	N.D.
Average	1254-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\181204A\
Data File : P7181204a-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2018 3:58 am
Operator : pest7:wr
Sample : wg1184841-7,42e,,
Misc : wg1185226,wg1184841,ical14857
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 14:55:46 2018
Quant Method : I:\Pest7\181206A\P7_pcb_04_10_18_ugL_ICAL14857.m
Quant Title : pcb
QLast Update : Thu Dec 06 11:14:43 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest7\181204A\P7181204a-01.d
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

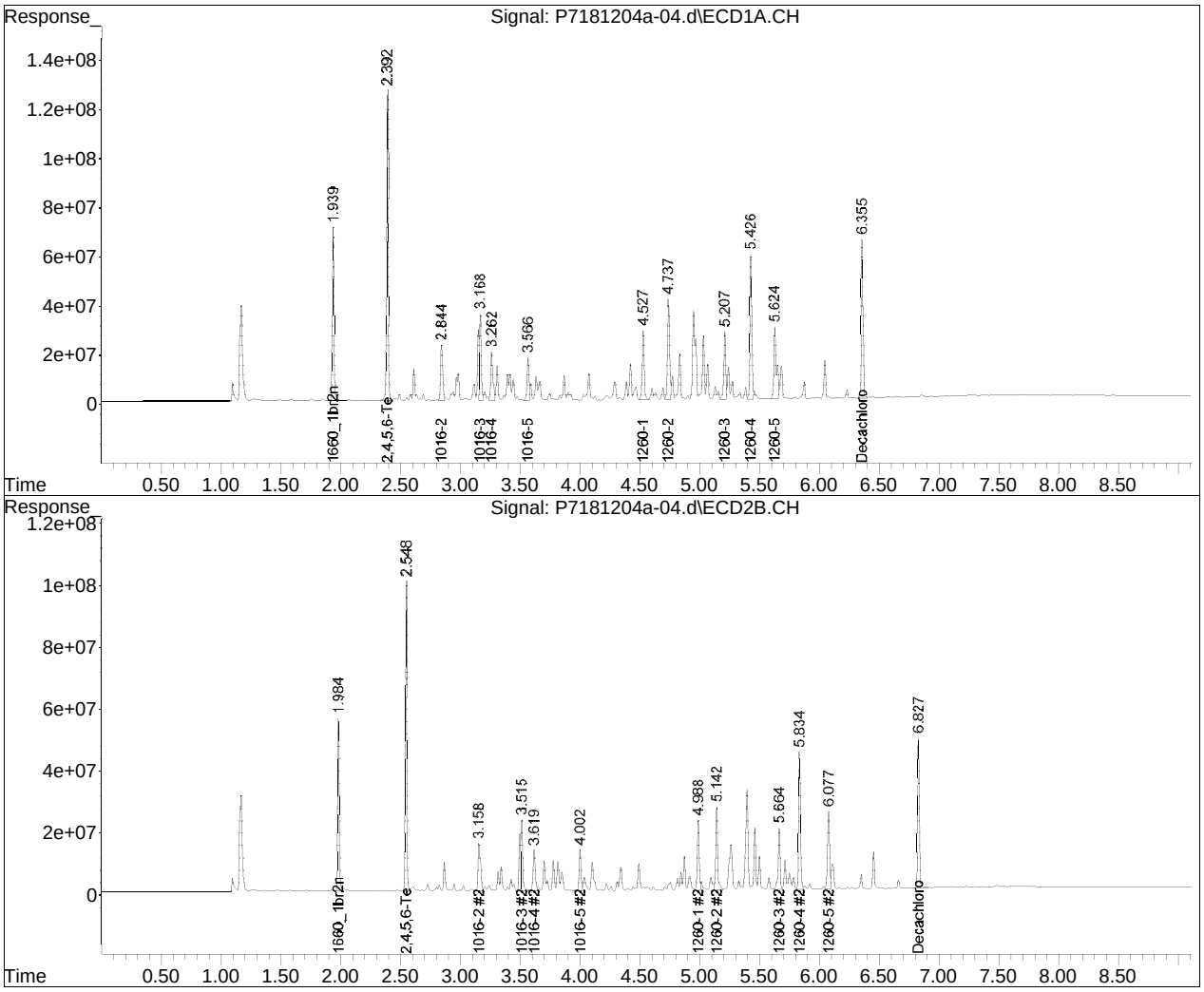
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : 1660 - 16607\181204A\P7181204a-01.d••ed)

Data Path : I:\Pest7\181204A\
Data File : P7181204a-04.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2018 3:58 am
Operator : pest7:wr
Sample : wg1184841-7,42e,,
Misc : wg1185226,wg1184841,ical14857
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 14:55:46 2018
Quant Method : I:\Pest7\181206A\P7_pcb_04_10_18_ugL_ICAL14857.m
Quant Title : pcb
QLast Update : Thu Dec 06 11:14:43 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

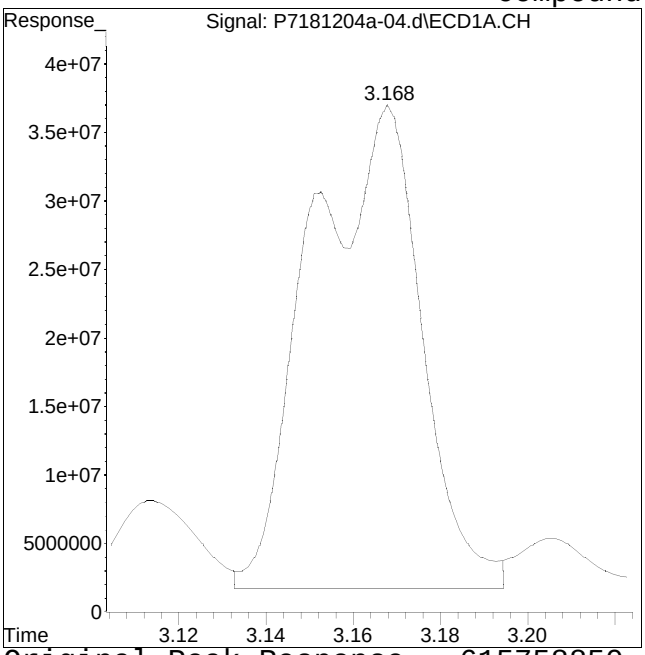


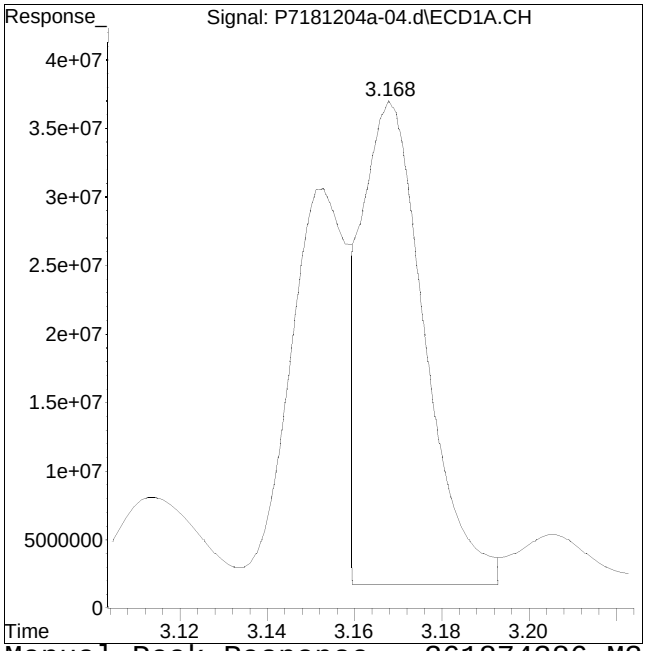
Manual Integration Report

Data Path : I:\Pest7\181204A\
Data File : P7181204a-04.d
Date Inj'd : 12/4/2018 3:58 am
Sample : wg1184841-7,42e,,

QMethod : P7_pcb_04_10_18_ugL_ICAL
Operator : pest7:wr
Instrument : Pest 7
Quant Date : 12/6/2018 2:08 pm

Compound #5: 1016-3





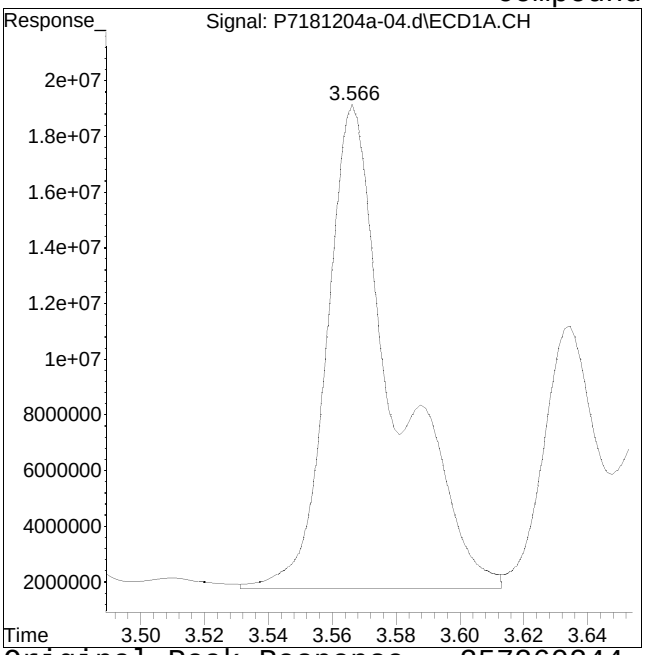
Original Peak Response = 615758850 Manual Peak Response = 361874386 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

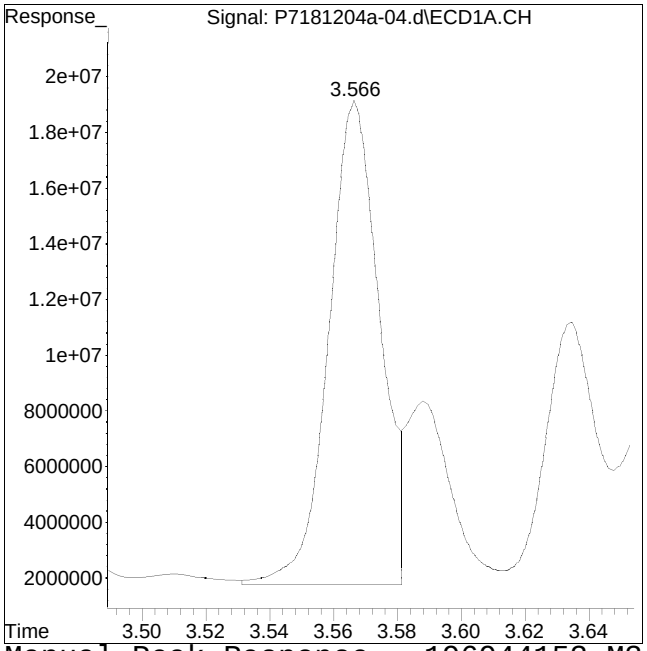
Manual Integration Report

Data Path : I:\Pest7\181204A\
Data File : P7181204a-04.d
Date Inj'd : 12/4/2018 3:58 am
Sample : wg1184841-7,42e,,

QMethod : P7_pcb_04_10_18_ugL_ICAL
Operator : pest7:wr
Instrument : Pest 7
Quant Date : 12/6/2018 2:08 pm

Compound #7: 1016-5





Original Peak Response = 257260244 Manual Peak Response = 196944153 M3

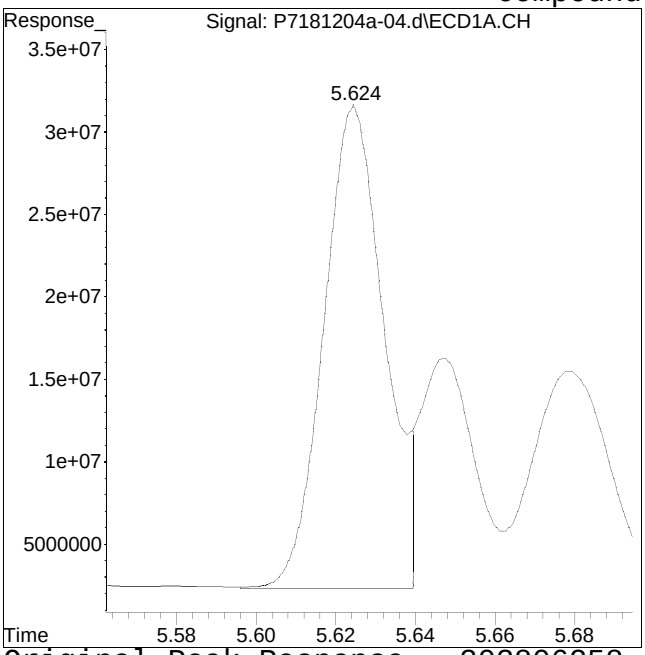
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

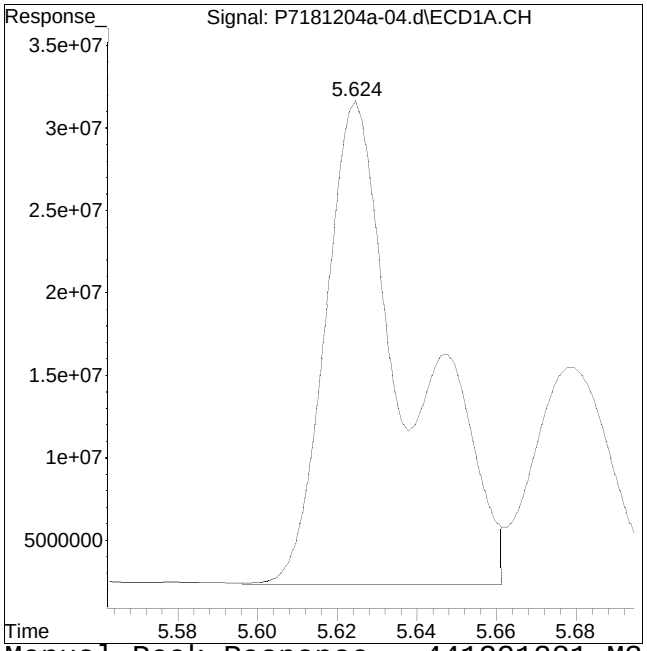
Manual Integration Report

Data Path : I:\Pest7\181204A\
Data File : P7181204a-04.d
Date Inj'd : 12/4/2018 3:58 am
Sample : wg1184841-7,42e,,

QMethod : P7_pcb_04_10_18_ugL_ICAL
Operator : pest7:wr
Instrument : Pest 7
Quant Date : 12/6/2018 2:08 pm

Compound #12: 1260-5





Original Peak Response = 303806258 Manual Peak Response = 441321281 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest7\181204A\
Data File : P7181204a-25.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2018 8:29 am
Operator : pest7:wr
Sample : wg1184841-5,42e,,
Misc : wg1185226,wg1184841,ical14857
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 15:20:43 2018
Quant Method : I:\Pest7\181206A\P7_pcb_04_10_18_ugL_ICAL14857.m
Quant Title : pcb
QLast Update : Thu Dec 06 11:14:43 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest7\181204A\P7181204a-22.d
Sub List : 1660 - 1660

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1660_1br2nb	1.943	1.988	608.4E6	488.2E6	250.000	250.000
	Standard Area 1 : #1 = 600567641				Recovery =	101.30%	
	Standard Area 1 : #2 = 451289888				Recovery =	108.17%	
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.395	2.551	865.6E6	774.0E6	296.032	344.381
	Spiked Amount 500.000	Range 30 - 150		Recovery =		59.21%	68.88%
3) s	Decachlorobi	6.391f	6.849f	719.7E6	954.7E6	359.275M4	647.472M4
	Spiked Amount 500.000	Range 30 - 150		Recovery =		71.85%	129.49%
	Target Compounds						
4) l1	1016-2	2.847	3.161	333.7E6	270.2E6	2790.333	2717.520
5) l1	1016-3	3.170	3.519	625.1E6	516.7E6	4762.094M3	4790.590
6) l1	1016-4	3.265	3.623	370.0E6	282.5E6	3868.834	3891.740
7) l1	1016-5	3.568	4.006	489.3E6	417.4E6	6104.022M3	6978.562
	Sum 1016-2			1818.2E6	1486.8E6	17525.283	18378.412
	Average 1016-2					4381.321	4594.603
8) l2	1260-1	4.534	4.995f	852.7E6	886.6E6	5806.957	8397.301
9) l2	1260-2	4.747f	5.151f	1522.9E6	1044.5E6	7228.283M3	8585.796
10) l2	1260-3	5.217f	5.671f	677.1E6	525.1E6	5049.204M4	5338.750M4
11) l2	1260-4	5.442f	5.846f	1421.0E6	1299.7E6	4789.389M4	6671.651M4
12) l2	1260-5	5.640f	6.088f	1173.9E6	906.7E6	6084.538M4	6672.878M4
	Sum 1260-1			5647.6E6	4662.6E6	28958.371	35666.376
	Average 1260-1					5791.674	7133.275
	Sum 1221-1			0	0	N.D.	N.D.

Data Path : I:\Pest7\181204A\
Data File : P7181204a-25.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2018 8:29 am
Operator : pest7:wr
Sample : wg1184841-5,42e,,
Misc : wg1185226,wg1184841,ical14857
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 15:20:43 2018
Quant Method : I:\Pest7\181206A\P7_pcb_04_10_18_ugL_ICAL14857.m
Quant Title : pcb
QLast Update : Thu Dec 06 11:14:43 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest7\181204A\P7181204a-22.d
Sub List : 1660 - 1660

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average 1221-1					0.000	0.000
Sum 1254-1			0	0	N.D.	N.D.
Average 1254-1					0.000	0.000
Sum 1242-1			0	0	N.D.	N.D.
Average 1242-1					0.000	0.000
Sum 1268-1			0	0	N.D.	N.D.
Average 1268-1					0.000	0.000
Sum 1248-1			0	0	N.D.	N.D.
Average 1248-1					0.000	0.000
Sum 1232-1			0	0	N.D.	N.D.
Average 1232-1					0.000	0.000
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum 1262-1			0	0	N.D.	N.D.
Average 1262-1					0.000	0.000

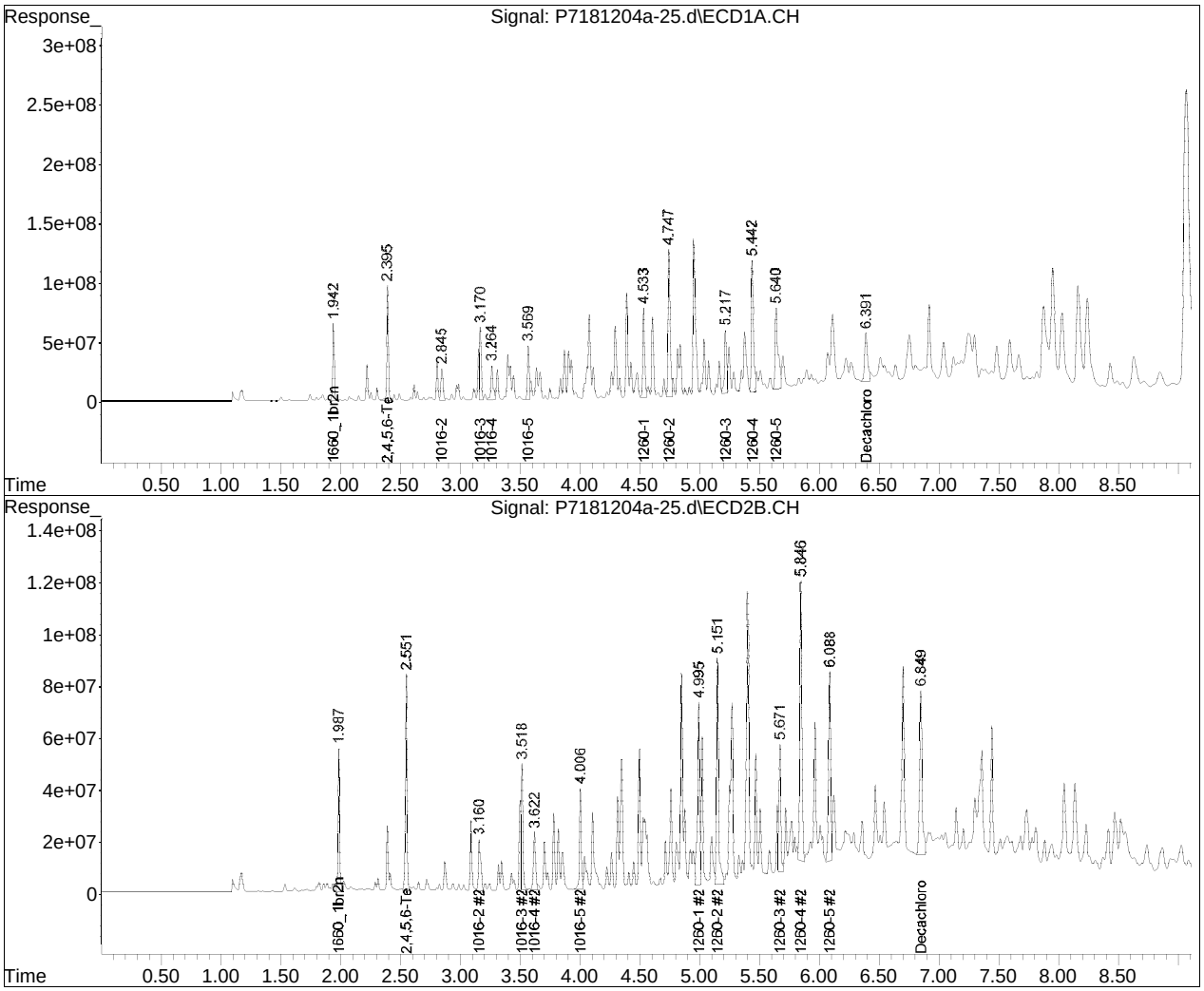
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : 1660 - 16607\181204A\P7181204a-22.d••ed)

Data Path : I:\Pest7\181204A\
Data File : P7181204a-25.d
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 04 Dec 2018 8:29 am
Operator : pest7:wr
Sample : wg1184841-5,42e,,
Misc : wg1185226,wg1184841,ical14857
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 15:20:43 2018
Quant Method : I:\Pest7\181206A\P7_pcb_04_10_18_ugL_ICAL14857.m
Quant Title : pcb
QLast Update : Thu Dec 06 11:14:43 2018
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

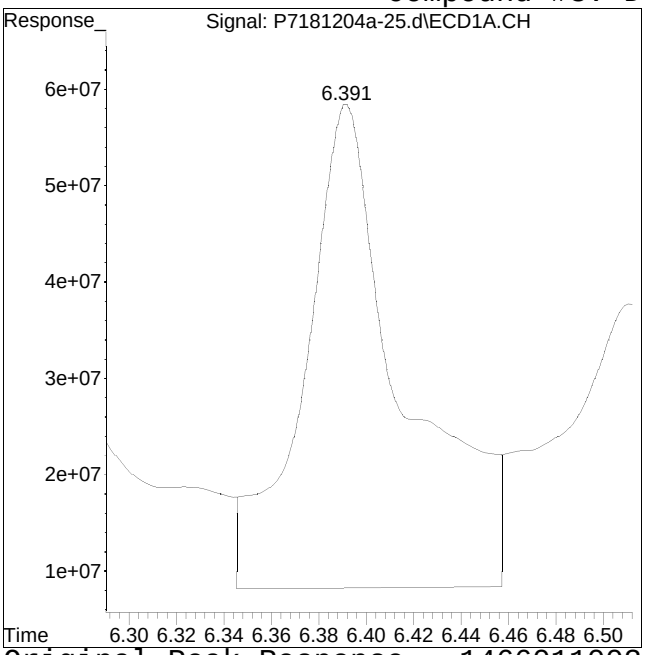


Manual Integration Report

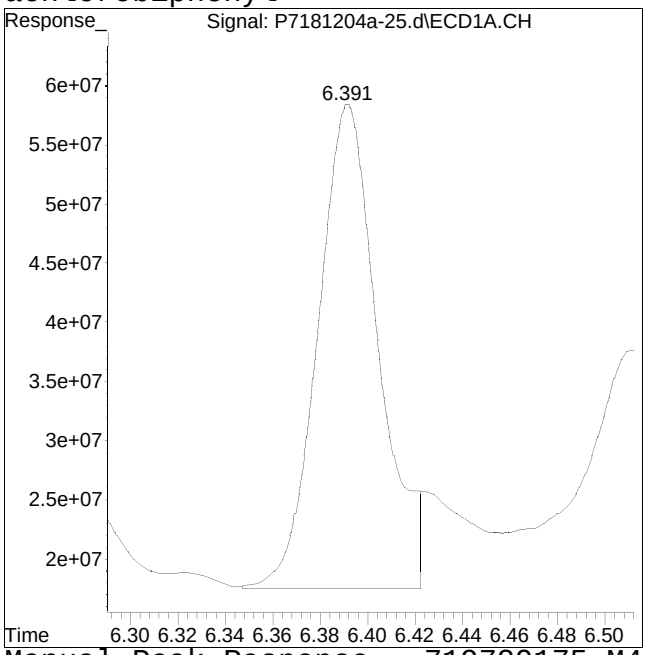
Data Path : I:\Pest7\181204A\
Data File : P7181204a-25.d
Date Inj'd : 12/4/2018 8:29 am
Sample : wg1184841-5,42e,,

QMethod : P7_pcb_04_10_18_ugL_ICAL
Operator : pest7:wr
Instrument : Pest 7
Quant Date : 12/6/2018 2:09 pm

Compound #3: Decachlorobiphenyl



Original Peak Response = 1466011003



Manual Peak Response = 719729175 M4

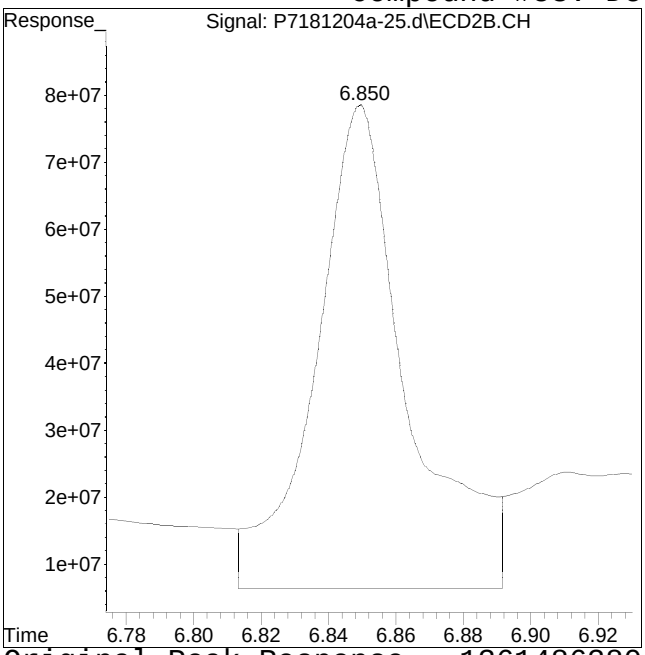
M4 = Poor automated baseline construction.

Manual Integration Report

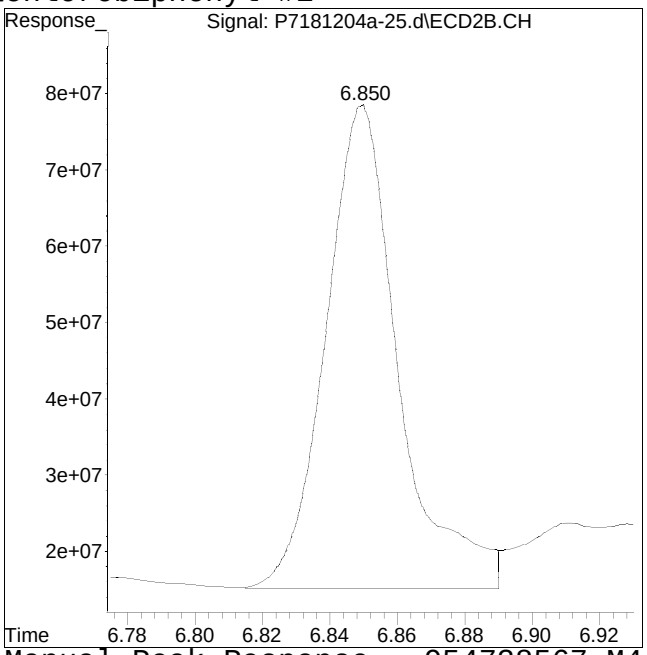
Data Path : I:\Pest7\181204A\
Data File : P7181204a-25.d
Date Inj'd : 12/4/2018 8:29 am
Sample : wg1184841-5,42e,,

QMethod : P7_pcb_04_10_18_ugL_ICAL
Operator : pest7:wr
Instrument : Pest 7
Quant Date : 12/6/2018 2:09 pm

Compound #53: Decachlorobiphenyl #2



Original Peak Response = 1361486380



Manual Peak Response = 954738567 M4

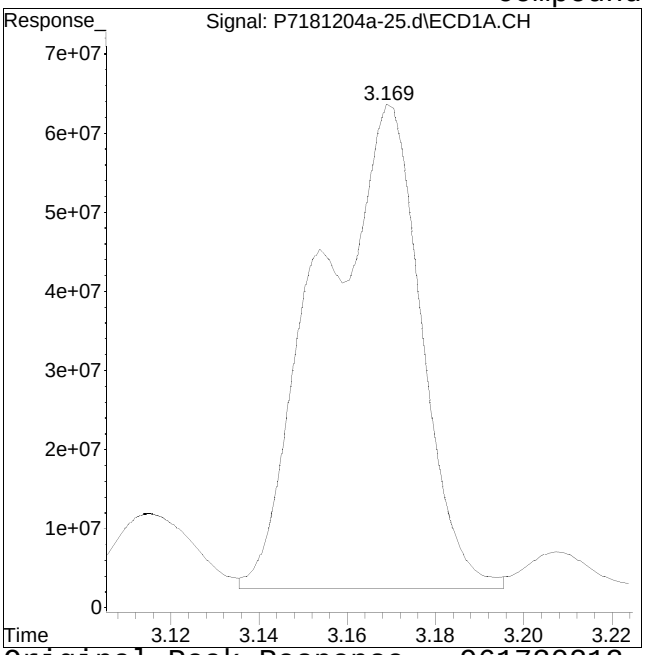
M4 = Poor automated baseline construction.

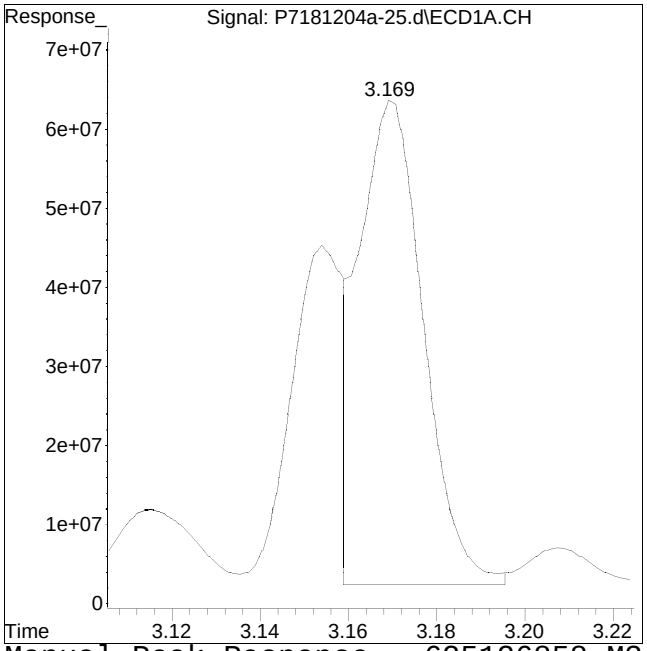
Manual Integration Report

Data Path : I:\Pest7\181204A\
Data File : P7181204a-25.d
Date Inj'd : 12/4/2018 8:29 am
Sample : wg1184841-5,42e,,

QMethod : P7_pcb_04_10_18_ugL_ICAL
Operator : pest7:wr
Instrument : Pest 7
Quant Date : 12/6/2018 2:09 pm

Compound #5: 1016-3





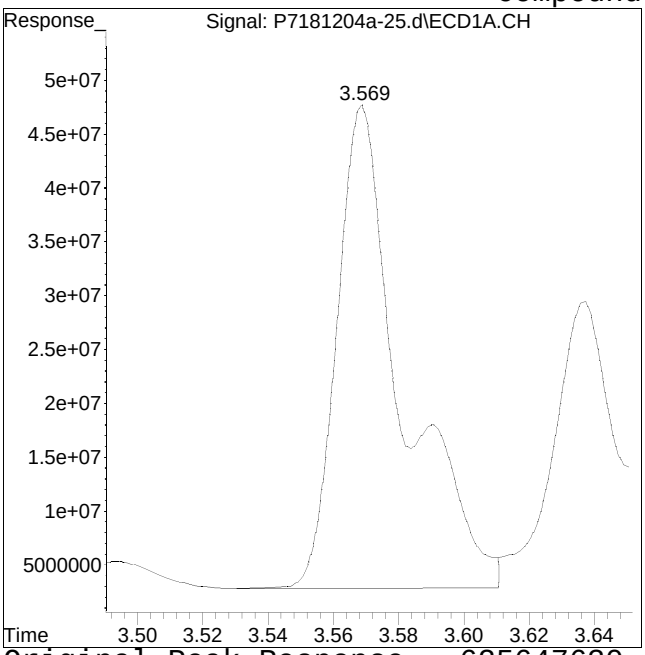
Original Peak Response = 961730212 Manual Peak Response = 625126858 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

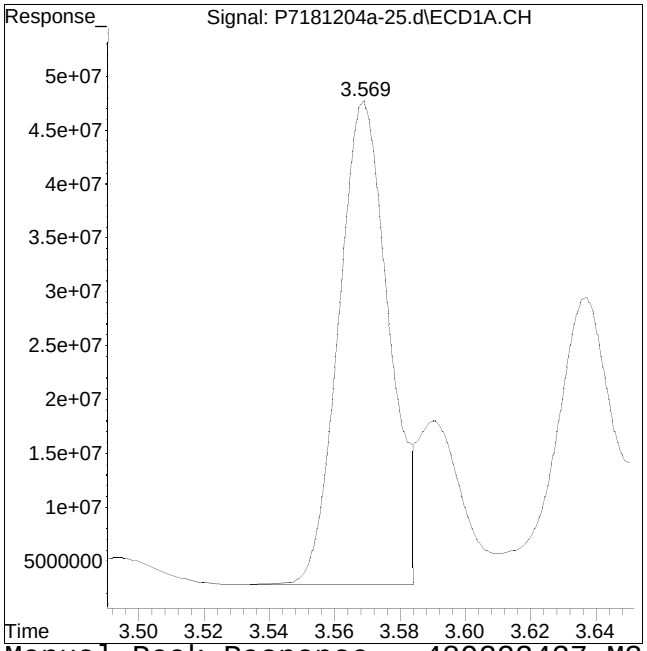
Manual Integration Report

Data Path : I:\Pest7\181204A\
Data File : P7181204a-25.d
Date Inj'd : 12/4/2018 8:29 am
Sample : wg1184841-5,42e,,

QMethod : P7_pcb_04_10_18_ugL_ICAL
Operator : pest7:wr
Instrument : Pest 7
Quant Date : 12/6/2018 2:09 pm

Compound #7: 1016-5





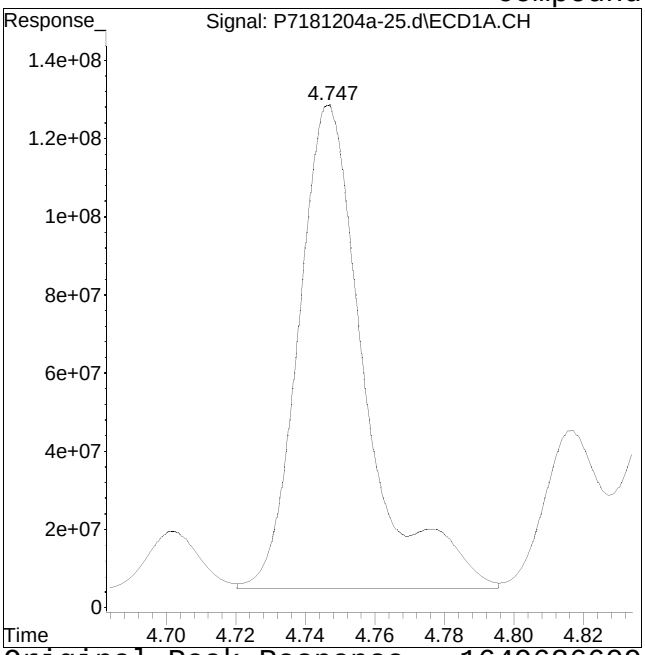
Original Peak Response = 625647630 Manual Peak Response = 489323437 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

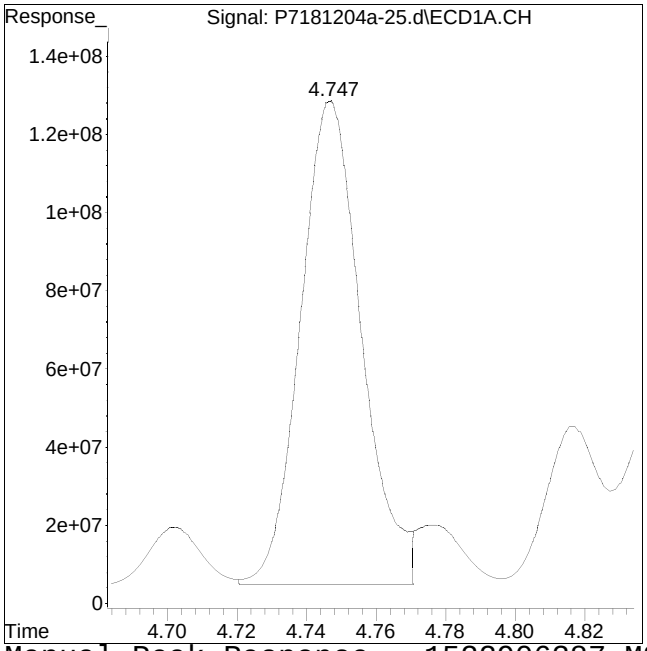
Manual Integration Report

Data Path : I:\Pest7\181204A\
Data File : P7181204a-25.d
Date Inj'd : 12/4/2018 8:29 am
Sample : wg1184841-5,42e,,

QMethod : P7_pcb_04_10_18_ugL_ICAL
Operator : pest7:wr
Instrument : Pest 7
Quant Date : 12/6/2018 2:09 pm

Compound #9: 1260-2





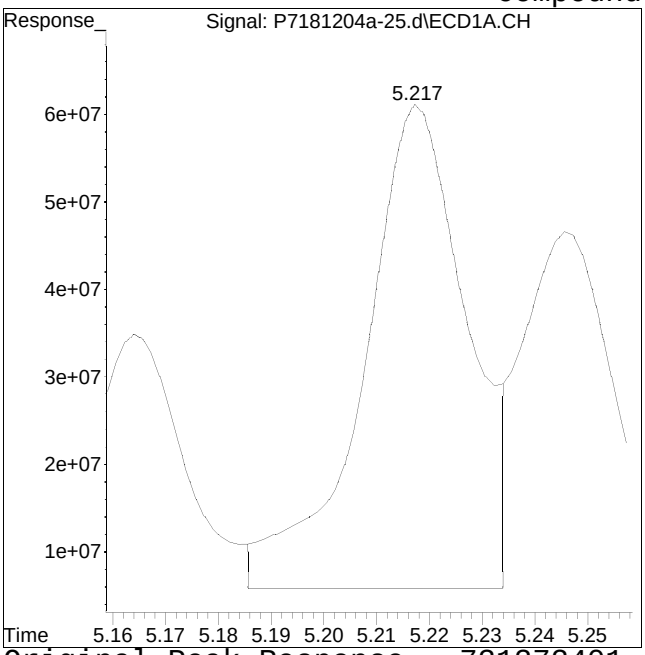
Original Peak Response = 1649626609 Manual Peak Response = 1522906387 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

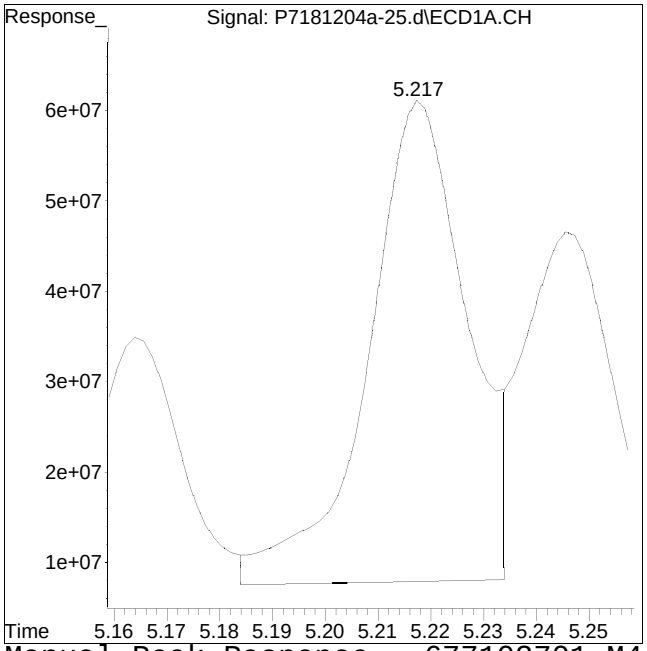
Data Path : I:\Pest7\181204A\
Data File : P7181204a-25.d
Date Inj'd : 12/4/2018 8:29 am
Sample : wg1184841-5,42e,,

QMethod : P7_pcb_04_10_18_ugL_ICAL
Operator : pest7:wr
Instrument : Pest 7
Quant Date : 12/6/2018 2:09 pm

Compound #10: 1260-3



Original Peak Response = 731372401



Manual Peak Response = 677103701 M4

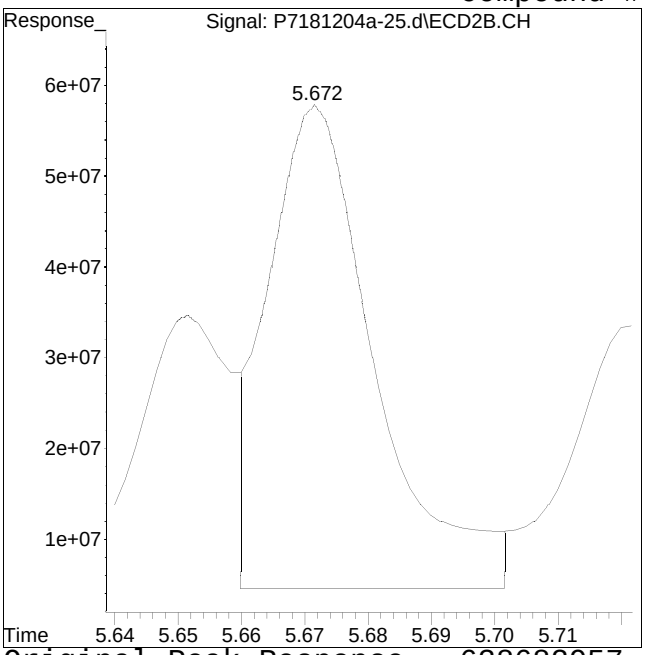
M4 = Poor automated baseline construction.

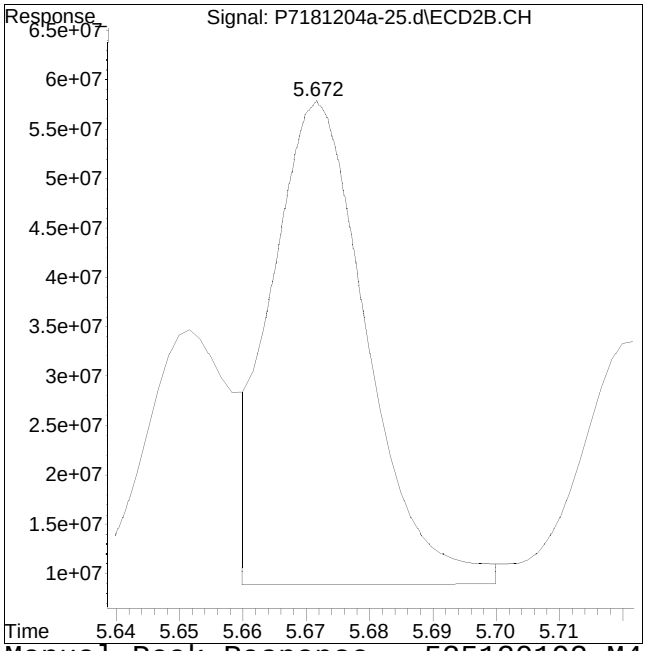
Manual Integration Report

Data Path : I:\Pest7\181204A\
Data File : P7181204a-25.d
Date Inj'd : 12/4/2018 8:29 am
Sample : wg1184841-5,42e,,

QMethod : P7_pcb_04_10_18_ugL_ICAL
Operator : pest7:wr
Instrument : Pest 7
Quant Date : 12/6/2018 2:09 pm

Compound #60: 1260-3 #2





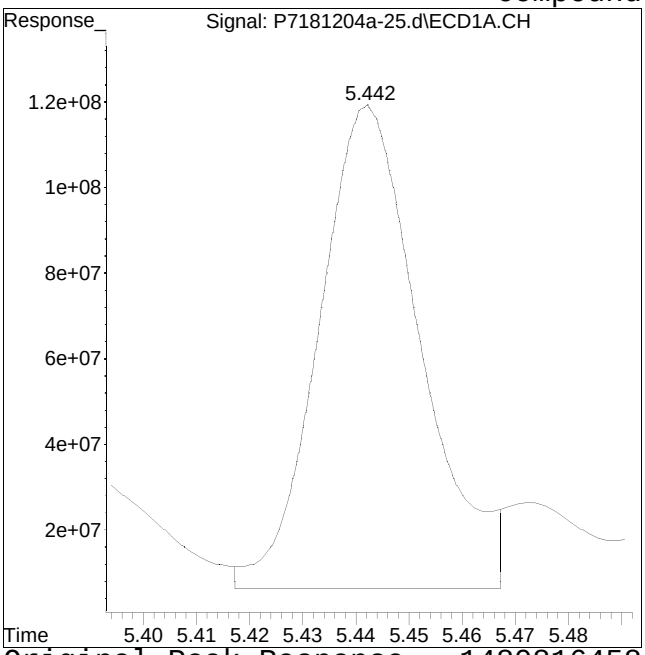
Original Peak Response = 638682957 Manual Peak Response = 525120192 M4
M4 = Poor automated baseline construction.

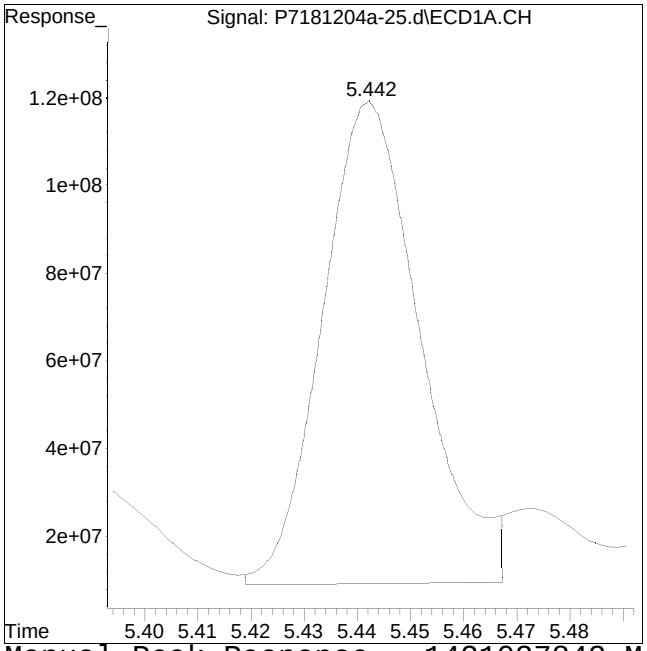
Manual Integration Report

Data Path : I:\Pest7\181204A\
Data File : P7181204a-25.d
Date Inj'd : 12/4/2018 8:29 am
Sample : wg1184841-5,42e,,

QMethod : P7_pcb_04_10_18_ugL_ICAL
Operator : pest7:wr
Instrument : Pest 7
Quant Date : 12/6/2018 2:09 pm

Compound #11: 1260-4





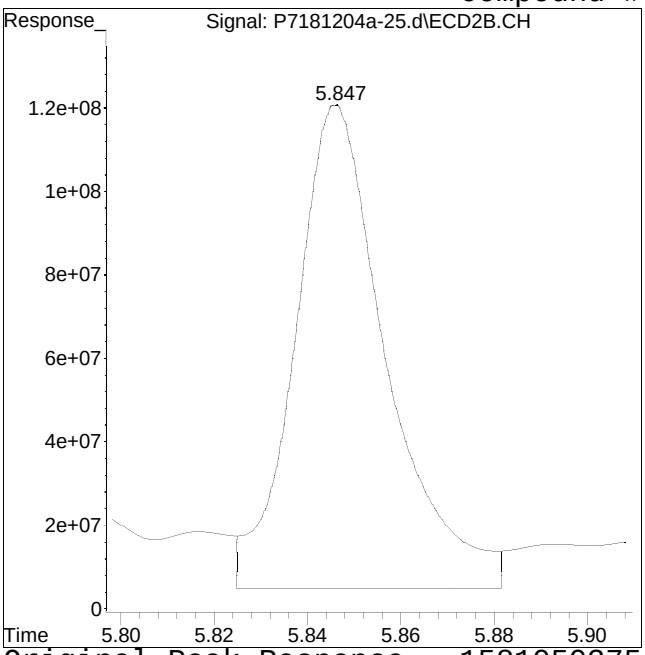
Original Peak Response = 1480816458 Manual Peak Response = 1421037843 M4
M4 = Poor automated baseline construction.

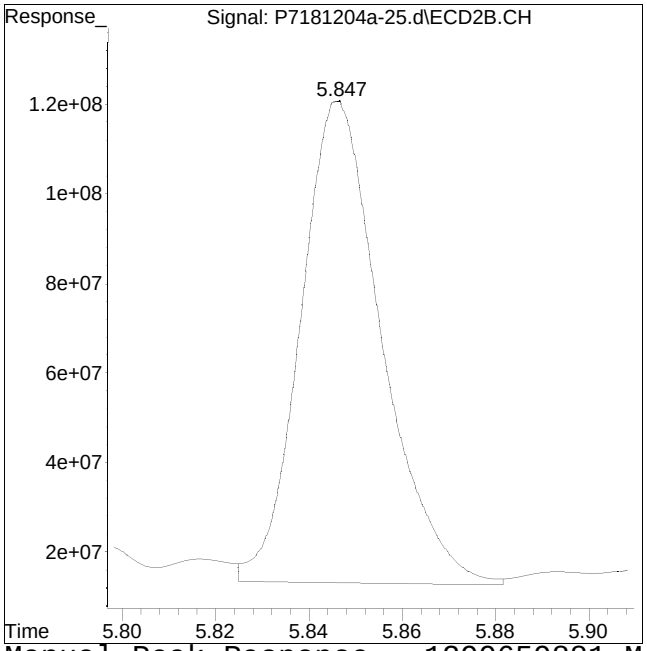
Manual Integration Report

Data Path : I:\Pest7\181204A\
Data File : P7181204a-25.d
Date Inj'd : 12/4/2018 8:29 am
Sample : wg1184841-5,42e,,

QMethod : P7_pcb_04_10_18_ugL_ICAL
Operator : pest7:wr
Instrument : Pest 7
Quant Date : 12/6/2018 2:09 pm

Compound #61: 1260-4 #2





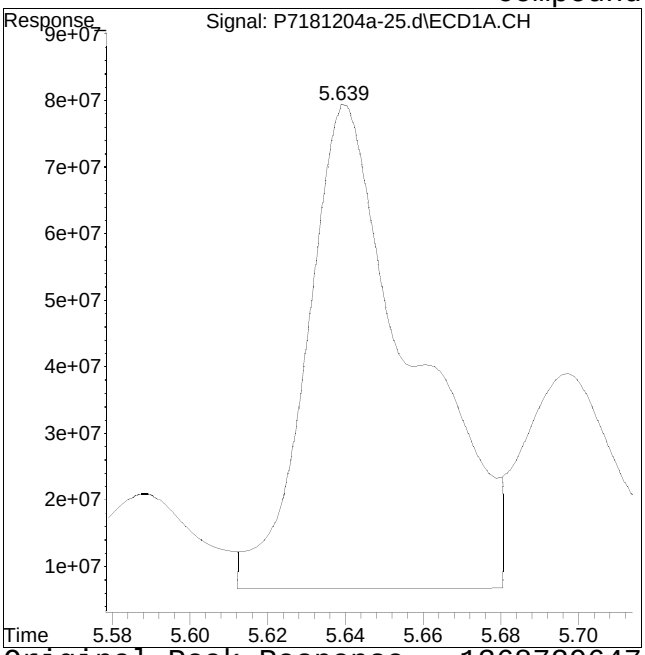
Original Peak Response = 1581059375 Manual Peak Response = 1299659881 M4
M4 = Poor automated baseline construction.

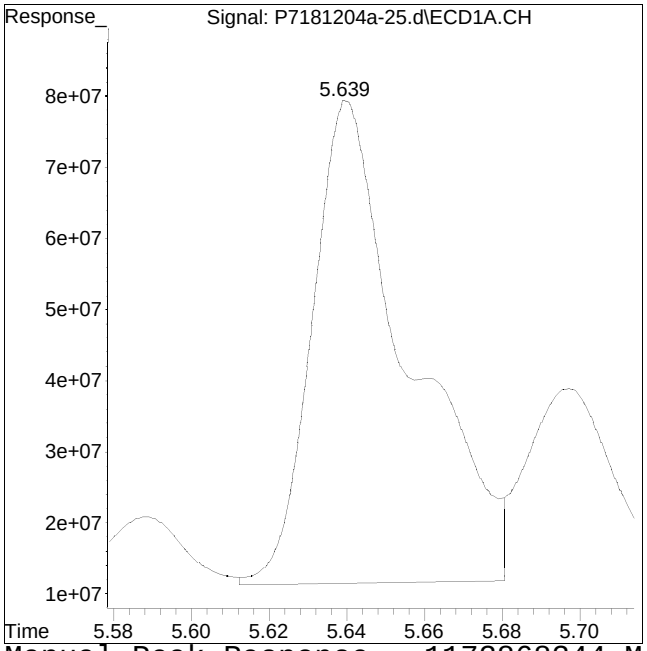
Manual Integration Report

Data Path : I:\Pest7\181204A\
Data File : P7181204a-25.d
Date Inj'd : 12/4/2018 8:29 am
Sample : wg1184841-5,42e,,

QMethod : P7_pcb_04_10_18_ugL_ICAL
Operator : pest7:wr
Instrument : Pest 7
Quant Date : 12/6/2018 2:09 pm

Compound #12: 1260-5





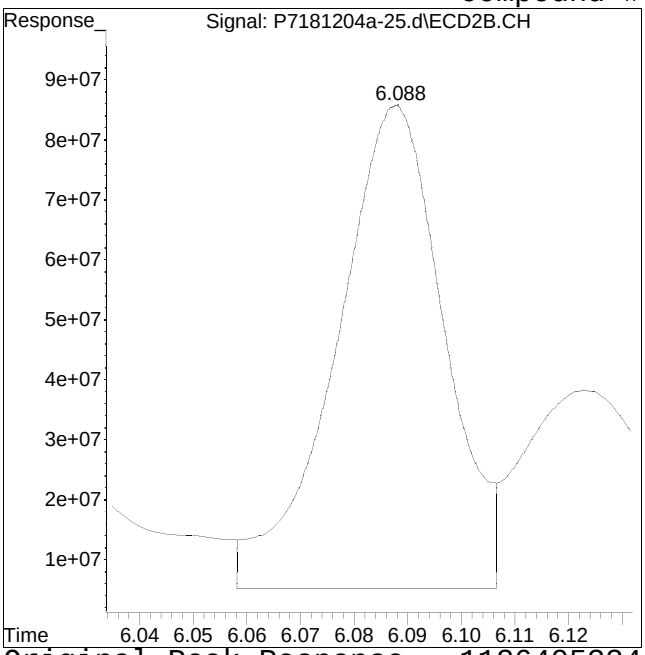
Original Peak Response = 1368729647 Manual Peak Response = 1173868344 M4
M4 = Poor automated baseline construction.

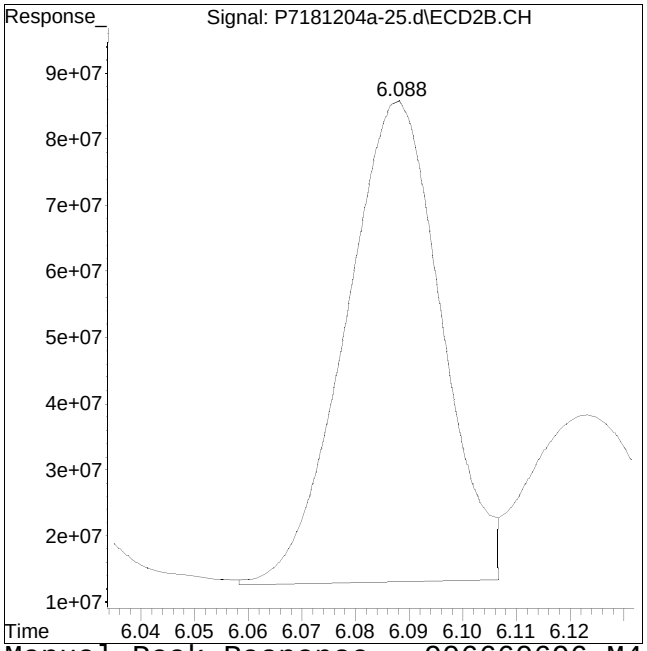
Manual Integration Report

Data Path : I:\Pest7\181204A\
Data File : P7181204a-25.d
Date Inj'd : 12/4/2018 8:29 am
Sample : wg1184841-5,42e,,

QMethod : P7_pcb_04_10_18_ugL_ICAL
Operator : pest7:wr
Instrument : Pest 7
Quant Date : 12/6/2018 2:09 pm

Compound #62: 1260-5 #2





Original Peak Response = 1126405334 Manual Peak Response = 906660696 M4
M4 = Poor automated baseline construction.

Calculation of PCB Aroclors & Pesticides

Aqueous Concentration Formula:
Amt * DF*(Vt/Vp)*(1000/Vo)*(Ve/1000)

Where:
DF = Dilution Factor
Vt = Extract Final Volume (mL)
Vp = Aliquot Cleaned (mL)
Vo = Volume of Sample (mL)
Ve = Extraction Lab Final Volume (mL)

Soil Concentration Formula:
Amt * DF * (Vt/Vp)*(1000/Wt)*(Ve/1000)* (100/TS)

Where:
DF = Dilution Factor
Vt = Extract Final Volume (mL)
Vp = Aliquot Cleaned (mL)
Wt = Weight of Sample (g)
Ve = Extraction Lab Final Volume (mL)
TS = Total Solids

Analysis log File

Total Files Reported in Log : 37
Log Generated From Directory: I:\Pest7\180410ICAL\

No.	DATA FILE	SAMPLE NAME	MISC	DATE INJ'D
1	P7180410i-01.d	blank		4/10/2018 3:51 p
2	P7180410i-02.d	blank		4/10/2018 4:04 p
3	P7180410i-03.d	il14268,42e,,8203		4/10/2018 4:17 p
4	P7180410i-04.d	il24268,42e,,8202		4/10/2018 4:29 p
5	P7180410i-05.d	il34268,42e,,8201		4/10/2018 4:42 p
6	P7180410i-06.d	il44268,42e,,8200		4/10/2018 4:55 p
7	P7180410i-07.d	il54268,42e,,8199		4/10/2018 5:08 p
8	P7180410i-08.d	il64268,42e,,8198		4/10/2018 5:21 p
9	P7180410i-09.d	il13262,42e,,8210		4/10/2018 5:34 p
10	P7180410i-10.d	il23262,42e,,8209		4/10/2018 5:47 p
11	P7180410i-11.d	il33262,42e,,8208		4/10/2018 5:59 p
12	P7180410i-12.d	il43262,42e,,8207		4/10/2018 6:12 p
13	P7180410i-13.d	il53262,42e,,8206		4/10/2018 6:25 p
14	P7180410i-14.d	il63262,42e,,8205		4/10/2018 6:38 p
15	P7180410i-15.d	il11248,42e,,8216		4/10/2018 6:51 p
16	P7180410i-16.d	il21248,42e,,8215		4/10/2018 7:04 p
17	P7180410i-17.d	il31248,42e,,8214		4/10/2018 7:17 p
18	P7180410i-18.d	il41248,42e,,8213		4/10/2018 7:30 p
19	P7180410i-19.d	il51248,42e,,8212		4/10/2018 7:42 p
20	P7180410i-20.d	il61248,42e,,8211		4/10/2018 7:55 p
21	P7180410i-21.d	il12154,42e,,8308		4/10/2018 8:08 p
22	P7180410i-22.d	il22154,42e,,8307		4/10/2018 8:21 p
23	P7180410i-23.d	il32154,42e,,8306		4/10/2018 8:34 p
24	P7180410i-24.d	il42154,42e,,8305		4/10/2018 8:47 p
25	P7180410i-25.d	il52154,42e,,8304		4/10/2018 8:59 p
26	P7180410i-26.d	il62154,42e,,8303		4/10/2018 9:12 p
27	P7180410i-27.d	il11660,42e,,8235		4/10/2018 9:25 p
28	P7180410i-28.d	il21660,42e,,8234		4/10/2018 9:38 p
29	P7180410i-29.d	il31660,42e,,8233		4/10/2018 9:51 p
30	P7180410i-30.d	il41660,42e,,8232		4/10/2018 10:04 p
31	P7180410i-31.d	il51660,42e,,8231		4/10/2018 10:16 p
32	P7180410i-32.d	il61660,42e,,8230		4/10/2018 10:29 p
33	P7180410i-33.d	cicv2154,42e,,8283		4/10/2018 10:42 p
34	P7180410i-34.d	cicv4268,42e,,8285		4/10/2018 10:55 p
35	P7180410i-35.d	cicv1248,42e,,8286		4/10/2018 11:08 p
36	P7180410i-36.d	cicv1660,42e,,8282		4/10/2018 11:21 p
37	P7180410i-37.d	cicv3262,42e,,8284		4/10/2018 11:34 p

SeqLog 1.0 - (c) 2009 Abacus Database Applications

ICAL14982
WG1146937

180809ical **2018** Pest_16

Dep.: PCB
Inst: Pest_16
Date: **08/09/18**
Run: **ical**

Method
GC: PCB

Seq: Regular ical

Vial	Data File	Sample	CCAL	notes	initials
1	180809ical-01	prime			
2	180809ical-02	blank			
3	180809ical-03	il4268,42e,,8669			
4	180809ical-04	i24268,42e,,8668			
5	180809ical-05	i34268,42e,,8667			
6	180809ical-06	i44268,42e,,8666			
7	180809ical-07	i54268,42e,,8665			
8	180809ical-08	i64268,42e,,8664			
9	180809ical-09	il13262,42e,,8734			
10	180809ical-10	il23262,42e,,8735			
11	180809ical-11	il33262,42e,,8736			
12	180809ical-12	il43262,42e,,8737			
13	180809ical-13	il53262,42e,,8738			
14	180809ical-14	il63262,42e,,8739			
15	180809ical-15	il11248,42e,,8740			
16	180809ical-16	il21248,42e,,8741			
17	180809ical-17	il31248,42e,,8742			
18	180809ical-18	il41248,42e,,8743			
19	180809ical-19	il51248,42e,,8744			
20	180809ical-20	il61248,42e,,8745			
21	180809ical-21	il12154,42e,,8675			
22	180809ical-22	il22154,42e,,8674			
23	180809ical-23	il32154,42e,,8673			
24	180809ical-24	il42154,42e,,8672			
25	180809ical-25	il52154,42e,,8671			
26	180809ical-26	il62154,42e,,8670			
27	180809ical-27	il11660,42e,,8761			
28	180809ical-28	il21660,42e,,8760			
29	180809ical-29	il31660,42e,,8759			
30	180809ical-30	il41660,42e,,8758			
31	180809ical-31	il51660,42e,,8757			
32	180809ical-32	il61660,42e,,8756			
33	180809ical-33	cicv4268,42e,,8848			
34	180809ical-34	cicv3262,42e,,8849			
35	180809ical-35	cicv1248,42e,,8850			
36	180809ical-36	cicv2154,42e,,8676			
37	180809ical-37	cicv1660,42e,,8847			

Reviewed jw 8/15

Analysis log File WG1170894

ICAL15752
processed by KB 10/16/18
reviewed by MO 10/22/18

Total Files Reported in Log : 37
Log Generated From Directory: I:\Pest12\181013ical\

No.	DATA FILE	SAMPLE NAME	MISC	DATE INJ'D
1	12181013ical-01.d	blk		10/13/2018 11:
2	12181013ical-02.d	blk		10/13/2018 11:
3	12181013ical-03.d	il14268,42e,,8669		10/13/2018 11:
4	12181013ical-04.d	il24268,42e,,8668		10/13/2018 11:
5	12181013ical-05.d	il34268,42e,,8667		10/13/2018 11:
6	12181013ical-06.d	il44268,42e,,8666		10/13/2018 12:
7	12181013ical-07.d	il54268,42e,,8665		10/13/2018 12:
8	12181013ical-08.d	il64268,42e,,8664		10/13/2018 12:
9	12181013ical-09.d	il13262,42e,,8734		10/13/2018 12:
10	12181013ical-10.d	il23262,42e,,8735		10/13/2018 12:
11	12181013ical-11.d	il33262,42e,,8736		10/13/2018 1:
12	12181013ical-12.d	il43262,42e,,8737		10/13/2018 1:
13	12181013ical-13.d	il53262,42e,,8738		10/13/2018 1:
14	12181013ical-14.d	il63262,42e,,8739		10/13/2018 1:
15	12181013ical-15.d	il11248,42e,,8740		10/13/2018 1:
16	12181013ical-16.d	il21248,42e,,8741		10/13/2018 2:
17	12181013ical-17.d	il31248,42e,,8742		10/13/2018 2:
18	12181013ical-18.d	il41248,42e,,8743		10/13/2018 2:
19	12181013ical-19.d	il51248,42e,,8744		10/13/2018 2:
20	12181013ical-20.d	il61248,42e,,8745		10/13/2018 3:
21	12181013ical-21.d	il12154,42e,,8675		10/13/2018 3:
22	12181013ical-22.d	il22154,42e,,8674		10/13/2018 3:
23	12181013ical-23.d	il32154,42e,,8673		10/13/2018 3:
24	12181013ical-24.d	il42154,42e,,8672		10/13/2018 3:
25	12181013ical-25.d	il52154,42e,,8671		10/13/2018 4:
26	12181013ical-26.d	il62154,42e,,8670		10/13/2018 4:
27	12181013ical-27.d	il11660,42e,,8761		10/13/2018 4:
28	12181013ical-28.d	il21660,42e,,8760		10/13/2018 4:
29	12181013ical-29.d	il31660,42e,,8759		10/13/2018 4:
30	12181013ical-30.d	il41660,42e,,8758		10/13/2018 5:
31	12181013ical-31.d	il51660,42e,,8757		10/13/2018 5:
32	12181013ical-32.d	il61660,42e,,8756		10/13/2018 5:
33	12181013ical-33.d	cicv4268,42e,,8848		10/13/2018 5:
34	12181013ical-34.d	cicv3262,42e,,8849		10/13/2018 5:
35	12181013ical-35.d	cicv1248,42e,,8850		10/13/2018 6:
36	12181013ical-36.d	cicv2154,42e,,8676		10/13/2018 6:
37	12181013ical-37.d	cicv1660,42e,,8847		10/13/2018 6:

Dep.: PCB
Inst: Pest_7
Date: **12/04/18**
Run: **a**

Method
GC: PCB

Seq: wg1185226

Vial	Data File	Sample	CCAL	notes	initials
1	P7181204a-01	+1016/1260 pp8980	15% 226-1 12:42am HT		
2	P7181204a-02	l1849143-01,42e,,			
3	P7181204a-03	wg1184841-6,42e,,			
4	P7181204a-04	wg1184841-7,42e,,			
5	P7181204a-05	l1849143-02,42e,,			
6	P7181204a-06	l1849143-03,42e,,			
7	P7181204a-07	l1849143-04,42e,,			
8	P7181204a-08	l1849143-05,42e,,			
9	P7181204a-09	l1849143-06,42e,,			
10	P7181204a-10	l1849143-07,42e,,			
11	P7181204a-11	l1849143-08,42e,,			
12	P7181204a-12	l1849143-09,42e,,			
13	P7181204a-13	l1849143-10,42e,,			
14	P7181204a-14	l1849143-12,42e,,			
15	P7181204a-15	l1849143-13,42e,,			
16	P7181204a-16	l1849143-16,42e,,			
17	P7181204a-17	l1849049-01,42e,,			
18	P7181204a-18	l1849049-02,42e,,			
19	P7181204a-19	wg1184841-1,42e,,			
20	P7181204a-20	wg1184841-2,42e,,			
21	P7181204a-21	wg1184841-3,42e,,			
22	P7181204a-22	+1016/1260 pp8980	7:50am 226-2 15% jm		
23	P7181204a-23	l1849060-03,42e,,			
24	P7181204a-24	wg1184841-4,42e,,			
25	P7181204a-25	wg1184841-5,42e,,			
26	P7181204a-26	l1849060-02,42e,,			
27	P7181204a-27	l1849060-04,42e,,			
28	P7181204a-28	l1849060-05,42e,,			
29	P7181204a-29	l1849060-06,42e,,			
30	P7181204a-30	wg1184219-4d,42e,5,md			
31	P7181204a-31	wg1184219-5d,42e,2,md			
32	P7181204a-32	l1848606-01d,42e,5,md			
33	P7181204a-33	wg1184219-1,42e,,			
34	P7181204a-34	wg1184219-2,42e,,			
35	P7181204a-35	wg1184219-3,42e,,			
36	P7181204a-36	l1848765-06,42e,,			
37	P7181204a-37	wg1184803-1,42e,,			
38	P7181204a-38	wg1184803-2,42e,,			
39	P7181204a-39	wg1184803-3,42e,,			
40	P7181204a-40	wg1184750-1,42e,,			
41	P7181204a-41	wg1184750-2,42e,,			
42	P7181204a-42	wg1184750-3,42e,,			
43	P7181204a-43	+1016/1260 pp8980	112pm 15% 226-3 JM		

Dep.: PCB
Inst: Pest_7
Date: **12/04/18**
Run: **a**

Method
GC: PCB

Seq: wg1185226

Vial	Data File	Sample	CCAL	notes	initials
44	P7181204a-44	I1848660-01,42e,,			
45	P7181204a-45	I1848357-10d,42e,5,			ht
46	P7181204a-46	wg1183627-4d,42e,5,			ht
47	P7181204a-47	wg1183627-5d,42e,5,			ht
48	P7181204a-48	I1848357-25d,42e,10,			ht
49	P7181204a-49	I1848357-22d,42e,20,			ht
50	P7181204a-50	I1848357-45d,42e,5,			ht
51	P7181204a-51	I1848357-50d,42e,20,			ht
52	P7181204a-52	I1849061-02,42e,,			
53	P7181204a-53	I1849061-03,42e,,			
54	P7181204a-54	I1849061-05,42e,,			
55	P7181204a-55	I1849061-06,42e,,			
56	P7181204a-56	I1849061-07,42e,,			
57	P7181204a-57	I1849061-08,42e,,			
58	P7181204a-58	I1849061-13,42e,,			
59	P7181204a-59	I1849061-14,42e,,			
60	P7181204a-60	I1849061-15,42e,,			
61	P7181204a-61	wg1185221-1,42e,,			
62	P7181204a-62	wg1185221-2,42e,,			
63	P7181204a-63	wg1185221-3,42e,,			
64	P7181204a-64	+1016/1260 pp8980	15% 226-4 9:10pm HT		
65	P7181204a-65	I1849061-16,42e,,			
66	P7181204a-66	I1848486-01,42e,,rrco			ht
67	P7181204a-67	wg1185217-1,42e,,			
68	P7181204a-68	wg1185217-2,42e,,			
69	P7181204a-69	wg1185217-3,42e,,			
70	P7181204a-70	I1849000-01,42e,,			
71	P7181204a-71	I1849087-01,42e,,			
72	P7181204a-72	I1849087-02,42e,,			
73	P7181204a-73	I1849087-03,42e,,			
74	P7181204a-74	I1849087-04,42e,,			
75	P7181204a-75	I1849087-05,42e,,			
76	P7181204a-76	I1849087-06,42e,,			
77	P7181204a-77	I1849087-07,42e,,			
78	P7181204a-78	I1849087-08,42e,,			
79	P7181204a-79	I1849087-09,42e,,			
80	P7181204a-80	I1849087-10,42e,,			
81	P7181204a-81	I1849087-11,42e,,			
82	P7181204a-82	I1849087-12,42e,,			
83	P7181204a-83	I1849087-13,42e,,			
84	P7181204a-84	I1849087-14,42e,,			

Dep.: PCB
Inst: Pest_16
Date: **12/04/18**
Run: **a**

Method
GC: PCB

Seq: wg1185229

Vial	Data File	Sample	CCAL	notes	initials
1	16181204a-01	+1016/1260 pp8980	20% 229-1 1:57am HT		
2	16181204a-02	wg1184858-1,42e,,			
3	16181204a-03	wg1184858-2,42e,,			
4	16181204a-04	wg1184858-3,42e,,			
5	16181204a-05	I1849060-01,42e,,			
6	16181204a-06	I1849088-01,42e,,			
7	16181204a-07	I1849088-02,42e,,			
8	16181204a-08	I1849088-03,42e,,			
9	16181204a-09	I1849088-04,42e,,			
10	16181204a-10	I1849088-05,42e,,			
11	16181204a-11	I1849088-06,42e,,			
12	16181204a-12	I1849088-07,42e,,			
13	16181204a-13	I1849088-08,42e,,			
14	16181204a-14	I1849088-09,42e,,			
15	16181204a-15	I1849088-10,42e,,			
16	16181204a-16	I1849088-12,42e,,			
17	16181204a-17	I1849088-13,42e,,			
18	16181204a-18	I1849088-14,42e,,			
19	16181204a-19	+1016/1260 pp8980	fails low target, maint.		
20	16181204a-20	+1016/1260 pp8980	15% 10:12am 229-2 JM		
21	16181204a-21	I1849090-01,42e,,			
22	16181204a-22	wg1184650-5,42e,,			
23	16181204a-23	wg1184650-4,42e,,			
24	16181204a-24	I1849090-05,42e,,			
25	16181204a-25	I1849090-04,42e,,			
26	16181204a-26	I1849090-03,42e,,cc			
27	16181204a-27	I1849090-02,42e,,			
28	16181204a-28	wg1184650-1,42e,,			
29	16181204a-29	wg1184650-2,42e,,			
30	16181204a-30	wg1184650-3,42e,,			
31	16181204a-31	I1849073-01,42e,,			
32	16181204a-32	I1849073-02,42e,,			
33	16181204a-33	wg1184822-1,42e,,			
34	16181204a-34	wg1184822-2,42e,,			
35	16181204a-35	wg1184822-3,42e,,			

Dep.: PCB
Inst: Pest_12
Date: **12/10/18**
Run: **a**

Method
GC: PCB

Seq: wg1187642

Vial	Data File	Sample	CCAL	notes	initials
1	12181210A-01	+1016/1260 pp8980		fails target low Jm 8:03am	
2	12181210A-02	+1016/1260 pp8980	20% 2:04pm 642-1 JM		aws
3	12181210A-03	l1849316-38d,42e,2,			aws
4	12181210A-04	l1849060-02d,42e,5,	2x > 10x same seq		aws
5	12181210A-05	l1849060-05d,42e,20,			aws
6	12181210A-06	l1849294-03d,42e,20,			aws
7	12181210A-07	wg1186668-5d,42e,20,			aws
8	12181210A-08	l1849090-03d,42e,4,rrlS			aws
9	12181210A-09	l1849060-02d,42e,10,			aws
10	12181210A-10	wg1186668-1,42e,,rrco			aws
11	12181210A-11	wg1186425-1,42e,,rr			
12	12181210A-12	wg1186425-2,42e,,rr			
13	12181210A-13	wg1186425-3,42e,,rr			
14	12181210A-14	l1849482-11,42e,,rr			
15	12181210A-15	l1850250-18,42e,,rr			
16	12181210A-16	l1850250-19,42e,,rr			
17	12181210A-17	l1850250-20,42e,,rr			
18	12181210A-18	l1849975-01,42e,,			
19	12181210A-19	wg1187266-1,42e,,			
20	12181210A-20	wg1187266-2,42e,,			
21	12181210A-21	wg1187266-3,42e,,			
22	12181210A-22	+1016/1260 pp8980			
23	12181210A-23	wg1186097-1,42e,,			
24	12181210A-24	wg1186097-2,42e,,			
25	12181210A-25	wg1186097-3,42e,,			
26	12181210A-26	l1849380-01,42e,,			
27	12181210A-27	l1849380-02,42e,,			
28	12181210A-28	l1849380-03,42e,,			
29	12181210A-29	l1850158-05d,42e,5,md			
30	12181210A-30	l1850158-06d,42e,5,md			

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Dec 10 2018, 07:25 pm

Work Group: WG1184841 for Department: 2 Organic Preparation

Created: 02-DEC-18 Due: Operator: CW

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L1849049-01	SODRUM_113018	S	NYTCL-8082	SOIL	DONE	U		1214 1221	S0	Glass-A.25
L1849049-02	SODRUM_PI_113018	S	NYTCL-8082	SOIL	DONE	U		1214 1221	S0	Glass-A.25
L1849060-02	CB-02	S	NYTCL-8082	SOIL	DONE	U		1214 1207	S0	Glass-A.25
L1849060-03	CB-03	S	NYTCL-8082	SOIL	DONE	U		1214 1207	S0	Glass-A.25
L1849060-04	CB-04	S	NYTCL-8082	SOIL	DONE	U		1214 1207	S0	Glass-A.25
L1849060-05	CB-01	S	NYTCL-8082	SOIL	DONE	U		1214 1207	S0	Glass-A.25
L1849060-06	DUP-18	S	NYTCL-8082	SOIL	DONE	U		1214 1207	S0	Glass-A.25
L1849143-01	S-102 (0"-6")	S	NYTCL-8082	SOIL	DONE	U		1214 1207	S0	Glass-A.25
L1849143-02	S-102 (6"-12")	S	NYTCL-8082	SOIL	DONE	U		1214 1207	S0	Glass-A.25
L1849143-03	S-102 (12"-24")	S	NYTCL-8082	SOIL	DONE	U		1214 1207	S0	Glass-A.25
L1849143-04	S-101 (0"-6")	S	NYTCL-8082	SOIL	DONE	U		1214 1207	S0	Glass-A.25
L1849143-05	S-101 (6"-12")	S	NYTCL-8082	SOIL	DONE	U		1214 1207	S0	Glass-A.25
L1849143-06	S-101 (12"-24")	S	NYTCL-8082	SOIL	DONE	U		1214 1207	S0	Glass-A.25
L1849143-07	S-103 (0"-6")	S	NYTCL-8082	SOIL	DONE	U		1214 1207	S0	Glass-A.25
L1849143-08	S-103 (6"-12")	S	NYTCL-8082	SOIL	DONE	U		1214 1207	S0	Glass-A.25
L1849143-09	S-103 (12"-24")	S	NYTCL-8082	SOIL	DONE	U		1214 1207	S0	Glass-A.25
L1849143-10	S-102 (10'-15')	S	NYTCL-8082	SOIL	DONE	U		1214 1207	S0	Glass-A.25
L1849143-12	S-102 (20'-25')	S	NYTCL-8082	SOIL	DONE	U		1214 1207	S0	Glass-A.25
L1849143-13	S-102 (25'-30')	S	NYTCL-8082	SOIL	DONE	U		1214 1207	S0	Glass-A.25
L1849143-16	S-104 (12"-24")	S	NYTCL-8082	SOIL	DONE	U		1214 1207	S0	Glass-A.25
WG1184841-1	Laboratory Method Bl	S	NYTCL-8082	SOIL	DONE	U				
WG1184841-2	Laboratory Control S	S	NYTCL-8082	SOIL	DONE	U				
WG1184841-3	LCS Duplicate	S	NYTCL-8082	SOIL	DONE	U				
WG1184841-4	Matrix Spike	S	NYTCL-8082	SOIL	DONE	U				
WG1184841-5	Matrix Spike Duplica	S	NYTCL-8082	SOIL	DONE	U				
WG1184841-6	Matrix Spike	S	NYTCL-8082	SOIL	DONE	U				
WG1184841-7	Matrix Spike Duplica	S	NYTCL-8082	SOIL	DONE	U				

Comments:

WG1184841-3	WG1184841-2
WG1184841-4	L1849060-03
WG1184841-5	L1849060-03
WG1184841-6	L1849143-01
WG1184841-7	L1849143-01

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Dec 10 2018, 07:25 pm

Work Group: WG1184858 for Department: 2 Organic Preparation

Created: 03-DEC-18 Due: Operator: VP

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L1849060-01	CB-05	S	NYTCL-8082	SOIL	DONE	U	1213	1207	S0	Glass-A.25
L1849088-01	SB-1 14-15'	S	NYTCL-8082	SOIL	DONE	U	1213	1207	S0	Glass-A.25
L1849088-02	SB-2 0.5-3.5'	S	NYTCL-8082	SOIL	DONE	U	1213	1207	S0	Glass-A.25
L1849088-03	SB-3 8-10'	S	NYTCL-8082	SOIL	DONE	U	1213	1207	S0	Glass-A.25
L1849088-04	SB-4 0-2'	S	NYTCL-8082	SOIL	DONE	U	1213	1207	S0	Glass-A.25
L1849088-05	SB-5 1-2'	S	NYTCL-8082	SOIL	DONE	U	1213	1207	S0	Glass-A.25
L1849088-06	SB-6 0.3-1'	S	NYTCL-8082	SOIL	DONE	U	1213	1207	S0	Glass-A.25
L1849088-07	SB-7 6-8'	S	NYTCL-8082	SOIL	DONE	U	1213	1207	S0	Glass-A.25
L1849088-08	SB-8 18-20'	S	NYTCL-8082	SOIL	DONE	U	1213	1207	S0	Glass-A.25
L1849088-09	SB-9 7-10'	S	NYTCL-8082	SOIL	DONE	U	1213	1207	S0	Glass-A.25
L1849088-10	SB-10 1-2'	S	NYTCL-8082	SOIL	DONE	U	1214	1207	S0	Glass-A.25
L1849088-12	SB-13 2-6'	S	NYTCL-8082	SOIL	DONE	U	1214	1207	S0	Glass-A.25
L1849088-13	SB-13 9.5-11'	S	NYTCL-8082	SOIL	DONE	U	1214	1207	S0	Glass-A.25
L1849088-14	SB-14 1-3'	S	NYTCL-8082	SOIL	DONE	U	1214	1207	S0	Glass-A.25
WG1184858-1	Laboratory Method Bl	S	NYTCL-8082	SOIL	DONE	U				
WG1184858-2	Laboratory Control S	S	NYTCL-8082	SOIL	DONE	U				
WG1184858-3	LCS Duplicate	S	NYTCL-8082	SOIL	DONE	U				

Comments:

WG1184858-3 WG1184858-2

ORGANIC ELN REPORT

Workgroup: WG1184841

Prep Method: EPA 3546
Solvent Type: 1:1 Hexane/Aceton **Lot #:** HA113018
Surrogate Type: Pesticide/PCB **Lot #:** PP8981
Spike Type: PCB **Lot #:** PP8971
Spike Verify by: CW
Lims Spikelot: PEST_5452

Additional Reagents/Stds

Na2SO4	0000206268

Conc.Method: S-EVAP/N-EVAP
Solvent Type: Hexane
Lot #: DV071

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1: EPA 3665A
Cleanup Method 2:
Solvent Type: Hexane **Lot #:** DV071

Additional Reagents/Stds

H2SO4	2018082804

Cleanup 2

Cleanup Method 1: EPA 3660B
Cleanup Method 2:
Solvent Type: Hexane **Lot #:** DV071

Additional Reagents/Stds

Copper	810290-BG

Cleanup 3

Cleanup Method 1:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Cleanup 4

Cleanup Method 1:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Sample/ Type	Extraction								Concentration			
	Extract Date	Analyst	Sample Weight g	Balance Id	Surr Amt ml	Spike Amt ml	Extract Unit Id	Stop Date/Time	Conc Date	Analyst	Final Vol ml	Conc Unit
L1849049-01 SOIL	12/02/18 18:52	Colleen Walsh	15.76	#36	.25		MW #7	N/A	12/03/18 02:46	Maryana Fialho	5	C/F #1
L1849049-02 SOIL	12/02/18 18:52	Colleen Walsh	15.23	#36	.25		MW #7	N/A	12/03/18 02:46	Maryana Fialho	5	C/F #1
L1849060-02 SAMP	12/02/18 18:52	Colleen Walsh	15.35	#36	.25		MW #7	N/A	12/03/18 02:46	Maryana Fialho	5	C/F #1
L1849060-03 SAMP	12/02/18 18:52 **5g due to matrix**	Colleen Walsh	5.84	#36	.25		MW #7	N/A	12/03/18 02:46	Maryana Fialho	5	C/F #1
L1849060-04 SAMP	12/02/18 18:52	Colleen Walsh	15.16	#36	.25		MW #7	N/A	12/03/18 02:46	Maryana Fialho	5	C/F #1

Reported: 10-DEC-18 07:25 PM

ORGANIC ELN REPORT

Workgroup: WG1184841

Sample/ Type	Extraction								Concentration			
	Extract Date	Analyst	Sample Weight g	Balance Id	Surr Amt ml	Spike Amt ml	Extract Unit Id	Stop Date/Time	Conc Date	Analyst	Final Vol ml	Conc Unit
L1849060-05 SAMP	12/02/18 18:52	Colleen Walsh	15.08	#36	.25		MW #7	N/A	12/03/18 02:46	Maryana Fialho	5	C/F #1
L1849060-06 SAMP	12/02/18 18:52	Colleen Walsh	5.93	#36	.25		MW #7	N/A	12/03/18 02:46	Maryana Fialho	5	C/F #1
	5g due to matrix											
L1849143-01 SOIL	12/02/18 18:52	Colleen Walsh	15.91	#36	.25		MW #7	N/A	12/03/18 02:46	Maryana Fialho	5	C/F #1
L1849143-02 SOIL	12/02/18 18:52	Colleen Walsh	15.44	#36	.25		MW #7	N/A	12/03/18 02:46	Maryana Fialho	5	C/F #1
L1849143-03 SOIL	12/02/18 18:52	Colleen Walsh	15.44	#36	.25		MW #7	N/A	12/03/18 02:46	Maryana Fialho	5	C/F #1
L1849143-04 SOIL	12/02/18 18:52	Colleen Walsh	15.87	#36	.25		MW #7	N/A	12/03/18 02:46	Maryana Fialho	5	C/F #1
L1849143-05 SOIL	12/02/18 18:52	Colleen Walsh	15.33	#36	.25		MW #7	N/A	12/03/18 02:46	Maryana Fialho	5	C/F #1
L1849143-06 SOIL	12/02/18 18:52	Colleen Walsh	15.94	#36	.25		MW #7	N/A	12/03/18 02:46	Maryana Fialho	5	C/F #1
L1849143-07 SOIL	12/02/18 18:52	Colleen Walsh	15.79	#36	.25		MW #7	N/A	12/03/18 02:46	Maryana Fialho	5	C/F #1
L1849143-08 SOIL	12/02/18 18:52	Colleen Walsh	15.23	#36	.25		MW #7	N/A	12/03/18 02:46	Maryana Fialho	5	C/F #1

Reported: 10-DEC-18 07:25 PM

ORGANIC ELN REPORT

Workgroup: WG1184841

Sample/ Type	Extraction								Concentration			
	Extract Date	Analyst	Sample Weight g	Balance Id	Surr Amt ml	Spike Amt ml	Extract Unit Id	Stop Date/Time	Conc Date	Analyst	Final Vol ml	Conc Unit
L1849143-09 SOIL	12/02/18 18:52	Colleen Walsh	15.66	#36	.25		MW #7	N/A	12/03/18 02:46	Maryana Fialho	5	C/F #1
L1849143-10 SOIL	12/02/18 18:52	Colleen Walsh	15.35	#36	.25		MW #7	N/A	12/03/18 02:46	Maryana Fialho	5	C/F #1
L1849143-12 SOIL	12/02/18 18:52	Colleen Walsh	15.59	#36	.25		MW #7	N/A	12/03/18 02:46	Maryana Fialho	5	C/F #1
L1849143-13 SOIL	12/02/18 18:52	Colleen Walsh	15.61	#36	.25		MW #7	N/A	12/03/18 02:46	Maryana Fialho	5	C/F #1
L1849143-16 SOIL	12/02/18 18:52	Colleen Walsh	15.23	#36	.25		MW #7	N/A	12/03/18 02:46	Maryana Fialho	5	C/F #1
WG1184841-1 BLANK	12/02/18 18:52	Colleen Walsh	15.24	#36	.25		MW #7	N/A	12/03/18 02:46	Maryana Fialho	5	C/F #1
WG1184841-2 LCS	12/02/18 18:52	Colleen Walsh	15.86	#36	.25	.25	MW #7	N/A	12/03/18 02:46	Maryana Fialho	5	C/F #1
WG1184841-3 LCSD	12/02/18 18:52	Colleen Walsh	15.84	#36	.25	.25	MW #7	N/A	12/03/18 02:46	Maryana Fialho	5	C/F #1
WG1184841-4 MS	12/02/18 18:52	Colleen Walsh	5.53	#36	.25	.25	MW #7	N/A	12/03/18 02:46	Maryana Fialho	5	C/F #1
	5g due to matrix											
WG1184841-5 MSD	12/02/18 18:52	Colleen Walsh	5.34	#36	.25	.25	MW #7	N/A	12/03/18 02:46	Maryana Fialho	5	C/F #1
	5g due to matrix											

Reported: 10-DEC-18 07:25 PM

ORGANIC ELN REPORT

Workgroup: WG1184841

Sample/ Type	Extraction								Concentration			
	Extract Date	Analyst	Sample Weight **g**	Balance Id	Surr Amt **ml**	Spike Amt **ml**	Extract Unit Id	Stop Date/Time	Conc Date	Analyst	Final Vol **ml**	Conc Unit
WG1184841-6 MS	12/02/18 18:52	Colleen Walsh	15.85	#36	.25	.25	MW #7	N/A	12/03/18 02:46	Maryana Fialho	5	C/F #1
WG1184841-7 MSD	12/02/18 18:52	Colleen Walsh	15.87	#36	.25	.25	MW #7	N/A	12/03/18 02:46	Maryana Fialho	5	C/F #1

ORGANIC ELN REPORT

Workgroup: WG1184841

Sample/ Type	Cleanup 1 Cleanup Date	Analyst	Pest Aliquot ml	Pest Final ml	Cleanup 2 Cleanup Date	Analyst
L1849049-01 SOIL	12/03/18 03:20	Demetra Skaltsas	5	1	12/03/18 06:41	Demetra Skaltsas
L1849049-02 SOIL	12/03/18 03:20	Demetra Skaltsas	5	1	12/03/18 06:41	Demetra Skaltsas
L1849060-02 SAMP	12/03/18 03:20	Demetra Skaltsas	5	1	12/03/18 06:41	Demetra Skaltsas
L1849060-03 SAMP	12/03/18 03:20	Demetra Skaltsas	5	1	12/03/18 06:41	Demetra Skaltsas
L1849060-04 SAMP	12/03/18 03:20	Demetra Skaltsas	5	1	12/03/18 06:41	Demetra Skaltsas
L1849060-05 SAMP	12/03/18 03:20	Demetra Skaltsas	5	1	12/03/18 06:41	Demetra Skaltsas
L1849060-06 SAMP	12/03/18 03:20	Demetra Skaltsas	5	1	12/03/18 06:41	Demetra Skaltsas
L1849143-01 SOIL	12/03/18 03:20	Demetra Skaltsas	5	1	12/03/18 06:41	Demetra Skaltsas
L1849143-02 SOIL	12/03/18 03:20	Demetra Skaltsas	5	1	12/03/18 06:41	Demetra Skaltsas
L1849143-03 SOIL	12/03/18 03:20	Demetra Skaltsas	5	1	12/03/18 06:41	Demetra Skaltsas
L1849143-04 SOIL	12/03/18 03:20	Demetra Skaltsas	5	1	12/03/18 06:41	Demetra Skaltsas

ORGANIC ELN REPORT

Workgroup: WG1184841

Sample/ Type	Cleanup 1				Cleanup 2	
	Cleanup Date	Analyst	Pest Aliquot **ml**	Pest Final **ml**	Cleanup Date	Analyst
L1849143-05 SOIL	12/03/18 03:20	Demetra Skaltsas	5	1	12/03/18 06:41	Demetra Skaltsas
L1849143-06 SOIL	12/03/18 03:20	Demetra Skaltsas	5	1	12/03/18 06:41	Demetra Skaltsas
L1849143-07 SOIL	12/03/18 03:20	Demetra Skaltsas	5	1	12/03/18 06:41	Demetra Skaltsas
L1849143-08 SOIL	12/03/18 03:20	Demetra Skaltsas	5	1	12/03/18 06:41	Demetra Skaltsas
L1849143-09 SOIL	12/03/18 03:20	Demetra Skaltsas	5	1	12/03/18 06:41	Demetra Skaltsas
L1849143-10 SOIL	12/03/18 03:20	Demetra Skaltsas	5	1	12/03/18 06:41	Demetra Skaltsas
L1849143-12 SOIL	12/03/18 03:20	Demetra Skaltsas	5	1	12/03/18 06:41	Demetra Skaltsas
L1849143-13 SOIL	12/03/18 03:20	Demetra Skaltsas	5	1	12/03/18 06:41	Demetra Skaltsas
L1849143-16 SOIL	12/03/18 03:20	Demetra Skaltsas	5	1	12/03/18 06:41	Demetra Skaltsas
WG1184841-1 BLANK	12/03/18 03:20	Demetra Skaltsas	5	1	12/03/18 06:41	Demetra Skaltsas
WG1184841-2 LCS	12/03/18 03:20	Demetra Skaltsas	5	1	12/03/18 06:41	Demetra Skaltsas

ORGANIC ELN REPORT

Workgroup: WG1184841

Sample/ Type	Cleanup 1				Cleanup 2	
	Cleanup Date	Analyst	Pest Aliquot **ml**	Pest Final **ml**	Cleanup Date	Analyst
WG1184841-3 LCSD	12/03/18 03:20	Demetra Skaltsas	5	1	12/03/18 06:41	Demetra Skaltsas
WG1184841-4 MS	12/03/18 03:20	Demetra Skaltsas	5	1	12/03/18 06:41	Demetra Skaltsas
WG1184841-5 MSD	12/03/18 03:20	Demetra Skaltsas	5	1	12/03/18 06:41	Demetra Skaltsas
WG1184841-6 MS	12/03/18 03:20	Demetra Skaltsas	5	1	12/03/18 06:41	Demetra Skaltsas
WG1184841-7 MSD	12/03/18 03:20	Demetra Skaltsas	5	1	12/03/18 06:41	Demetra Skaltsas

ORGANIC ELN REPORT

Workgroup: WG1184858

Prep Method: EPA 3546
Solvent Type: 1:1 Hexane/Aceton **Lot #:** HA120218
Surrogate Type: Pesticide/PCB **Lot #:** 8981
Spike Type: PCB **Lot #:** 8971
Spike Verify by: VP
Lims Spikelot: PEST_5452

Additional Reagents/Stds

Na2SO4	0000206268

Conc.Method: S-EVAP/N-EVAP
Solvent Type: Hexane
Lot #: DV071

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1: EPA 3665A
Cleanup Method 2:
Solvent Type: Hexane **Lot #:** DV071

Additional Reagents/Stds

H2SO4	2018082804

Cleanup 2

Cleanup Method 1: EPA 3660B
Cleanup Method 2:
Solvent Type: Hexane **Lot #:** DU071

Additional Reagents/Stds

Copper	810290-BG

Cleanup 3

Cleanup Method 1:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Cleanup 4

Cleanup Method 1:
Solvent Type: **Lot #:**

Additional Reagents/Stds

Sample/ Type	Extraction								Concentration			
	Extract Date	Analyst	Sample Weight g	Balance Id	Surr Amt ml	Spike Amt ml	Extract Unit Id	Stop Date/Time	Conc Date	Analyst	Final Vol ml	Conc Unit
L1849060-01 SAMP	12/03/18 01:28	Vincent Phan	15.45	42	.25		MW6	NA	12/03/18 06:39	Maryana Fialho	5	C/F #1
L1849088-01 SOIL	12/03/18 01:28	Vincent Phan	15.58	42	.25		MW6	NA	12/03/18 06:39	Maryana Fialho	5	C/F #1
L1849088-02 SOIL	12/03/18 01:28	Vincent Phan	15.90	42	.25		MW6	NA	12/03/18 06:39	Maryana Fialho	5	C/F #1
L1849088-03 SOIL	12/03/18 01:28	Vincent Phan	15.32	42	.25		MW6	NA	12/03/18 06:39	Maryana Fialho	5	C/F #1
L1849088-04 SOIL	12/03/18 01:28	Vincent Phan	15.62	42	.25		MW6	NA	12/03/18 06:39	Maryana Fialho	5	C/F #1

Reported: 10-DEC-18 07:25 PM

ORGANIC ELN REPORT

Workgroup: WG1184858

Sample/ Type	Extraction								Concentration			
	Extract Date	Analyst	Sample Weight g	Balance Id	Surr Amt ml	Spike Amt ml	Extract Unit Id	Stop Date/Time	Conc Date	Analyst	Final Vol ml	Conc Unit
L1849088-05 SOIL	12/03/18 01:28	Vincent Phan	15.50	42	.25		MW6	NA	12/03/18 06:39	Maryana Fialho	5	C/F #1
L1849088-06 SOIL	12/03/18 01:28	Vincent Phan	15.83	42	.25		MW6	NA	12/03/18 06:39	Maryana Fialho	5	C/F #1
L1849088-07 SOIL	12/03/18 01:28	Vincent Phan	15.63	42	.25		MW6	NA	12/03/18 06:39	Maryana Fialho	5	C/F #1
L1849088-08 SOIL	12/03/18 01:28	Vincent Phan	15.79	42	.25		MW6	NA	12/03/18 06:39	Maryana Fialho	5	C/F #1
L1849088-09 SOIL	12/03/18 01:28	Vincent Phan	15.18	42	.25		MW6	NA	12/03/18 06:39	Maryana Fialho	5	C/F #1
L1849088-10 SOIL	12/03/18 01:28	Vincent Phan	15.68	42	.25		MW6	NA	12/03/18 06:39	Maryana Fialho	5	C/F #1
L1849088-12 SOIL	12/03/18 01:28	Vincent Phan	15.12	42	.25		MW6	NA	12/03/18 06:39	Maryana Fialho	5	C/F #1
L1849088-13 SOIL	12/03/18 01:29	Vincent Phan	15.36	42	.25		MW6	NA	12/03/18 06:39	Maryana Fialho	5	C/F #1
L1849088-14 SOIL	12/03/18 01:29	Vincent Phan	15.04	42	.25		MW6	NA	12/03/18 06:39	Maryana Fialho	5	C/F #1
WG1184858-1 BLANK	12/03/18 01:28	Vincent Phan	15.39	42	.25		MW6	NA	12/03/18 06:39	Maryana Fialho	5	C/F #1

Reported: 10-DEC-18 07:25 PM

ORGANIC ELN REPORT

Workgroup: WG1184858

Sample/ Type	Extraction								Concentration			
	Extract Date	Analyst	Sample Weight **g**	Balance Id	Surr Amt **ml**	Spike Amt **ml**	Extract Unit Id	Stop Date/Time	Conc Date	Analyst	Final Vol **ml**	Conc Unit
WG1184858-2 LCS	12/03/18 01:28	Vincent Phan	15.78	42	.25	.25	MW6	NA	12/03/18 06:39	Maryana Fialho	5	C/F #1
WG1184858-3 LCSD	12/03/18 01:28	Vincent Phan	15.50	42	.25	.25	MW6	NA	12/03/18 06:39	Maryana Fialho	5	C/F #1

Reported: 10-DEC-18 07:25 PM

ORGANIC ELN REPORT

Workgroup: WG1184858

Sample/ Type	Cleanup 1				Cleanup 2	
	Cleanup Date	Analyst	Pest Aliquot **ml**	Pest Final **ml**	Cleanup Date	Analyst
L1849060-01 SAMP	12/03/18 07:55	Priscilla Anim	5	1	12/03/18 12:20	Priscilla Anim
L1849088-01 SOIL	12/03/18 07:55	Priscilla Anim	5	1	12/03/18 12:20	Priscilla Anim
L1849088-02 SOIL	12/03/18 07:55	Priscilla Anim	5	1	12/03/18 12:20	Priscilla Anim
L1849088-03 SOIL	12/03/18 07:55	Priscilla Anim	5	1	12/03/18 12:20	Priscilla Anim
L1849088-04 SOIL	12/03/18 07:55	Priscilla Anim	5	1	12/03/18 12:20	Priscilla Anim
L1849088-05 SOIL	12/03/18 07:55	Priscilla Anim	5	1	12/03/18 12:20	Priscilla Anim
L1849088-06 SOIL	12/03/18 07:55	Priscilla Anim	5	1	12/03/18 12:20	Priscilla Anim
L1849088-07 SOIL	12/03/18 07:55	Priscilla Anim	5	1	12/03/18 12:20	Priscilla Anim
L1849088-08 SOIL	12/03/18 07:55	Priscilla Anim	5	1	12/03/18 12:20	Priscilla Anim
L1849088-09 SOIL	12/03/18 07:55	Priscilla Anim	5	1	12/03/18 12:20	Priscilla Anim
L1849088-10 SOIL	12/03/18 07:55	Priscilla Anim	5	1	12/03/18 12:20	Priscilla Anim

ORGANIC ELN REPORT

Workgroup: WG1184858

Sample/ Type	Cleanup 1 Cleanup Date	Analyst	Pest Aliquot **ml**	Pest Final **ml**	Cleanup 2 Cleanup Date	Analyst
L1849088-12 SOIL	12/03/18 07:55	Priscilla Anim	5	1	12/03/18 12:20	Priscilla Anim
L1849088-13 SOIL	12/03/18 07:55	Priscilla Anim	5	1	12/03/18 12:20	Priscilla Anim
L1849088-14 SOIL	12/03/18 07:55	Priscilla Anim	5	1	12/03/18 12:20	Priscilla Anim
WG1184858-1 BLANK	12/03/18 07:55	Priscilla Anim	5	1	12/03/18 12:20	Priscilla Anim
WG1184858-2 LCS	12/03/18 07:55	Priscilla Anim	5	1	12/03/18 12:20	Priscilla Anim
WG1184858-3 LCSD	12/03/18 07:55	Priscilla Anim	5	1	12/03/18 12:20	Priscilla Anim

GC Extractable Analysis
Pesticides

Semivolatiles QC Summary

Form 2
Surrogate Recovery
PESTICIDES

Client: CHA Companies
Project Name: 700 SMITH BLVD

Lab Number: L1849060
Project Number: 29852.1202.44000
Matrix: Soil

GC Column 1: CLPPesticides
GC Column 2: CLPPesticidesII

CLIENT ID (LAB SAMPLE NO.)	TCX 1 %REC	TCX 2 %REC	DCB 1 %REC	DCB 2 %REC	OTHER (1)	OTHER (2)	TOT OUT
CB-02 (L1849060-02)	67	88	66	100			0
CB-03 (L1849060-03)	103	105	56	75			0
CB-04 (L1849060-04)	108	94	64	71			0
CB-01 (L1849060-05)	68	81	53	59			0
DUP-18 (L1849060-06)	91	96	46	57			0
WG1184846-1BLANK	89	91	59	84			0
WG1184846-2LCS	96	99	84	94			0
WG1184846-3LCSD	100	105	88	99			0
CB-03MS	83	89	48	51			0
CB-03MSD	80	84	42	53			0

QC LIMITS
(30-150) TCX = 2,4,5,6-TETRACHLORO-M-XYLENE
(30-150) DCBP = DECACHLOROBIPHENYL

*** Values outside of QC limits**

FORM II NYTCL-8081

Laboratory Control Sample
Form 3

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Matrix	: SOIL		
LCS Sample ID	: WG1184846-2	**Analysis Date** : 12/06/18 01:49	**File ID** : 18181205c-34
LCSD Sample ID	: WG1184846-3	**Analysis Date** : 12/06/18 02:01	**File ID** : 18181205c-35

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/kg)	Found (ug/kg)	%R	True (ug/kg)	Found (ug/kg)	%R	RPD	Recovery Limits	RPD Limit
Delta-BHC	31.7	31.7	100	31.4	34.4	109	9	30-150	30
Lindane	31.7	31.1	98	31.4	32.0	102	4	30-150	30
Alpha-BHC	31.7	32.1	101	31.4	32.7	104	3	30-150	30
Beta-BHC	31.7	33.3	105	31.4	35.8	114	8	30-150	30
Heptachlor	31.7	37.6	119	31.4	38.4	122	2	30-150	30
Aldrin	31.7	31.1	98	31.4	32.3	103	5	30-150	30
Heptachlor epoxide	31.7	28.5	90	31.4	34.0	108	18	30-150	30
Endrin	31.7	35.0	111	31.4	36.3	115	4	30-150	30
Endrin aldehyde	31.7	22.3	70	31.4	25.4	81	15	30-150	30
Endrin ketone	31.7	34.8	110	31.4	35.1	112	2	30-150	30
Dieldrin	31.7	36.7	116	31.4	38.2	121	4	30-150	30
4,4'-DDE	31.7	28.5	90	31.4	29.7	94	4	30-150	30
4,4'-DDD	31.7	33.0	104	31.4	35.2	112	7	30-150	30
4,4'-DDT	31.7	34.1	108	31.4	35.6	113	5	30-150	30
Endosulfan I	31.7	31.4	99	31.4	32.3	103	4	30-150	30
Endosulfan II	31.7	34.2	108	31.4	36.3	115	6	30-150	30
Endosulfan sulfate	31.7	30.5	96	31.4	32.2	102	6	30-150	30
Methoxychlor	31.7	34.1	108	31.4	35.7	114	5	30-150	30
cis-Chlordane	31.7	27.4	86	31.4	28.6	91	6	30-150	30
trans-Chlordane	31.7	35.8	113	31.4	37.5	119	5	30-150	30

Matrix Spike
Form 3

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Client Sample ID	: CB-03	Matrix	: SOIL
Lab Sample ID	: L1849060-03	Analysis Date	: 12/06/18 02:39
Matrix Spike	: WG1184846-4	MS Analysis Date	: 12/06/18 02:52
Matrix Spike Dup	: WG1184846-5	MSD Analysis Date	: 12/06/18 03:05

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/kg)	Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R	Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R	RPD	Recovery Limits	RPD Limit
Delta-BHC	ND	179	177P	99	173	161	93	9	30-150	50
Lindane	ND	179	129	72	173	119	69	8	30-150	50
Alpha-BHC	ND	179	141	79	173	128	74	10	30-150	50
Beta-BHC	ND	179	135	76	173	128	74	5	30-150	50
Heptachlor	ND	179	151	85	173	136	79	10	30-150	50
Aldrin	ND	179	120	67	173	109	63	10	30-150	50
Heptachlor epoxide	ND	179	124	69	173	113	65	9	30-150	50
Endrin	16.3	179	112	54	173	103	50	8	30-150	50
Endrin aldehyde	ND	179	245	137	173	152	88	47	30-150	50
Endrin ketone	ND	179	163P	91	173	128P	74	24	30-150	50
Dieldrin	ND	179	165	92	173	147	85	12	30-150	50
4,4'-DDE	ND	179	161P	90	173	142P	82	13	30-150	50
4,4'-DDD	ND	179	117	66	173	106	61	10	30-150	50
4,4'-DDT	ND	179	112	63	173	100	58	11	30-150	50
Endosulfan I	ND	179	124	69	173	113	65	9	30-150	50
Endosulfan II	ND	179	95.2	53	173	88.2	51	8	30-150	50
Endosulfan sulfate	ND	179	87.5	49	173	84.8	49	3	30-150	50
Methoxychlor	ND	179	126	71	173	101	58	22	30-150	50
cis-Chlordane	ND	179	112	63	173	99.0	57	12	30-150	50
trans-Chlordane	ND	179	116	65	173	109	63	6	30-150	50

Method Blank Summary
Form 4
PESTICIDES

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Lab Sample ID	: WG1184846-1	**Lab File ID**	: 18181205c-33
Matrix	: SOIL	**Extraction Date**	: 12/02/18
Analysis Date (1)	: 12/06/18 01:36	**Analysis Date (2)**	: 12/06/18 01:36
Instrument ID (1)	: PEST18	**Instrument ID (2)**	: PEST18

Client Sample No.	Lab Sample ID	Analysis Date 1	Analysis Date 2
WG1184846-2LCS	WG1184846-2	12/06/18 01:49	12/06/18 01:49
WG1184846-3LCSD	WG1184846-3	12/06/18 02:01	12/06/18 02:01
CB-03	L1849060-03	12/06/18 02:39	12/06/18 02:39
CB-03MS	WG1184846-4	12/06/18 02:52	12/06/18 02:52
CB-03MSD	WG1184846-5	12/06/18 03:05	12/06/18 03:05
CB-02	L1849060-02	12/06/18 10:33	12/06/18 10:33
CB-04	L1849060-04	12/06/18 10:46	12/06/18 10:46
CB-01	L1849060-05	12/06/18 10:59	12/06/18 10:59
DUP-18	L1849060-06	12/06/18 11:11	12/06/18 11:11

Analytical Sequence
Form 8
PESTICIDES

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: PEST18	**Initial Calib. Date(s)**	: 09/19/18 09/27/18

Client ID	Lab ID	Date/Time Analyzed
R1116550-11 PEM	R1116550-11	09/19/18 17:58
Pesticides L1	R1116550-1	09/19/18 18:11
Pesticides L2	R1116550-2	09/19/18 18:24
Pesticides L3	R1116550-3	09/19/18 18:36
Pesticides L4	R1116550-4	09/19/18 18:49
Pesticides L5	R1116550-5	09/19/18 19:01
Pesticides L6	R1116550-6	09/19/18 19:14
Pesticides L7	R1116550-7	09/19/18 19:27
Pesticides L8	R1116550-8	09/19/18 19:39
Pesticides L9	R1116550-12	09/19/18 19:52
Pesticides L10	R1116550-9	09/19/18 20:05
R1116550-10 ICV	R1116550-10	09/19/18 20:17
Chlordane L2	R1116550-13	09/19/18 20:43
Chlordane L3	R1116550-14	09/19/18 20:55
Chlordane L4	R1116550-15	09/19/18 21:08
Chlordane L5	R1116550-16	09/19/18 21:21
Chlordane L6	R1116550-17	09/19/18 21:33
Chlordane L7	R1116550-18	09/19/18 21:46
Chlordane L8	R1116550-19	09/19/18 21:59
Chlordane L9	R1116550-20	09/19/18 22:11
R1116550-21 ICV	R1116550-21	09/19/18 22:24
R1116550-22 PEM	R1116550-22	09/27/18 18:13
Toxaphene L7	R1116550-23	09/27/18 18:26
R1116550-24 ICV	R1116550-24	09/27/18 18:38
R1138816-1 PEM	R1138816-1	12/05/18 17:44
WG1186046-1 CCAL	WG1186046-1	12/05/18 17:57
WG1186046-2 CCAL	WG1186046-2	12/05/18 18:10
WG1186046-3 CCAL	WG1186046-3	12/05/18 18:23
WG1186046-4 CCAL	WG1186046-4	12/05/18 23:54
WG1184846-1 BLANK	WG1184846-1	12/06/18 01:36
WG1184846-2 LCS	WG1184846-2	12/06/18 01:49
WG1184846-3 LCSD	WG1184846-3	12/06/18 02:01
CB-03	L1849060-03	12/06/18 02:39
CB-03 MS	WG1184846-4	12/06/18 02:52
CB-03 MSD	WG1184846-5	12/06/18 03:05
R1138786-1 PEM	R1138786-1	12/06/18 08:40
WG1186320-1 CCAL	WG1186320-1	12/06/18 08:53
WG1186320-2 CCAL	WG1186320-2	12/06/18 09:06
WG1186320-3 CCAL	WG1186320-3	12/06/18 09:18
CB-02	L1849060-02	12/06/18 10:33
CB-04	L1849060-04	12/06/18 10:46
CB-01	L1849060-05	12/06/18 10:59
DUP-18	L1849060-06	12/06/18 11:11

Date Created: 11/04/16
Created By: Jason Hebert
File: PM2964-1
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Pesticides - EPA 8081B (WATER)

Holding Time: 7 days
Container/Sample Preservation: 2 - Amber 500ml unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Delta-BHC	319-86-8	0.02	0.00467	ug/l	30-150	20	30-150	30	30			
Lindane	58-89-9	0.02	0.00434	ug/l	30-150	20	30-150	30	30			
Alpha-BHC	319-84-6	0.02	0.00439	ug/l	30-150	20	30-150	30	30			
Beta-BHC	319-85-7	0.02	0.0056	ug/l	30-150	20	30-150	30	30			
Heptachlor	76-44-8	0.02	0.0031	ug/l	30-150	20	30-150	30	30			
Aldrin	309-00-2	0.02	0.00216	ug/l	30-150	20	30-150	30	30			
Heptachlor epoxide	1024-57-3	0.02	0.00415	ug/l	30-150	20	30-150	30	30			
Endrin	72-20-8	0.04	0.00429	ug/l	30-150	20	30-150	30	30			
Endrin aldehyde	7421-93-4	0.04	0.0081	ug/l	30-150	20	30-150	30	30			
Endrin ketone	53494-70-5	0.04	0.00477	ug/l	30-150	20	30-150	30	30			
Dieldrin	60-57-1	0.04	0.00429	ug/l	30-150	20	30-150	30	30			
4,4'-DDE	72-55-9	0.04	0.00381	ug/l	30-150	20	30-150	30	30			
4,4'-DDD	72-54-8	0.04	0.00464	ug/l	30-150	20	30-150	30	30			
4,4'-DDT	50-29-3	0.04	0.00432	ug/l	30-150	20	30-150	30	30			
Endosulfan I	959-98-8	0.02	0.00345	ug/l	30-150	20	30-150	30	30			
Endosulfan II	33213-65-9	0.04	0.00519	ug/l	30-150	20	30-150	30	30			
Endosulfan sulfate	1031-07-8	0.04	0.00481	ug/l	30-150	20	30-150	30	30			
Methoxychlor	72-43-5	0.2	0.00684	ug/l	30-150	20	30-150	30	30			
Toxaphene	8001-35-2	0.2	0.0627	ug/l	30-150	20	30-150	30	30			
Chlordane	57-74-9	0.2	0.0463	ug/l	40-140	20	30-150	30	30			
cis-Chlordane	5103-71-9	0.02	0.00666	ug/l	30-150	20	30-150	30	30			
trans-Chlordane	5103-74-2	0.02	0.00627	ug/l	30-150	20	30-150	30	30			
2,4,5,6-Tetrachloro-m-xylene	*877-09-8*									*30-150*		
Decachlorobiphenyl	*2051-24-3*									*30-150*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 11/04/16
Created By: Jason Hebert
File: PM2965-1
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Pesticides - EPA 8081B (SOIL)

Holding Time: 14 days
Container/Sample Preservation: 1 - Glass 250ml/8oz unpreserved

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Delta-BHC	319-86-8	8.00	1.58	ug/kg	30-150	30	30-150	50	50			
Lindane	58-89-9	3.33	1.49	ug/kg	30-150	30	30-150	50	50			
Alpha-BHC	319-84-6	3.33	0.95	ug/kg	30-150	30	30-150	50	50			
Beta-BHC	319-85-7	8.00	3.03	ug/kg	30-150	30	30-150	50	50			
Heptachlor	76-44-8	4.00	1.79	ug/kg	30-150	30	30-150	50	50			
Aldrin	309-00-2	8.00	2.82	ug/kg	30-150	30	30-150	50	50			
Heptachlor epoxide	1024-57-3	15.0	4.50	ug/kg	30-150	30	30-150	50	50			
Endrin	72-20-8	3.33	1.37	ug/kg	30-150	30	30-150	50	50			
Endrin aldehyde	7421-93-4	10.0	3.50	ug/kg	30-150	30	30-150	50	50			
Endrin ketone	53494-70-5	8.00	2.06	ug/kg	30-150	30	30-150	50	50			
Dieldrin	60-57-1	5.00	2.50	ug/kg	30-150	30	30-150	50	50			
4,4'-DDE	72-55-9	8.00	1.85	ug/kg	30-150	30	30-150	50	50			
4,4'-DDD	72-54-8	8.00	2.85	ug/kg	30-150	30	30-150	50	50			
4,4'-DDT	50-29-3	15.0	6.43	ug/kg	30-150	30	30-150	50	50			
Endosulfan I	959-98-8	8.00	1.89	ug/kg	30-150	30	30-150	50	50			
Endosulfan II	33213-65-9	8.00	2.67	ug/kg	30-150	30	30-150	50	50			
Endosulfan sulfate	1031-07-8	3.33	1.52	ug/kg	30-150	30	30-150	50	50			
Methoxychlor	72-43-5	15.0	4.67	ug/kg	30-150	30	30-150	50	50			
Toxaphene	8001-35-2	150	42.0	ug/kg	30-150	30	30-150	50	50			
Chlordane	57-74-9	65.0	26.5	ug/kg	30-150	30	30-150	50	50			
cis-Chlordane	5103-71-9	10.0	2.79	ug/kg	30-150	30	30-150	50	50			
trans-Chlordane	5103-74-2	10.0	2.64	ug/kg	30-150	30	30-150	50	50			
2,4,5,6-Tetrachloro-m-xylene	*877-09-8*									*30-150*		
Decachlorobiphenyl	*2051-24-3*									*30-150*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Pesticide Sample Data

Form 1
GC Organics

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-02	Date Collected	: 11/30/18 09:05
Client ID	: CB-02	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/06/18 10:33
Sample Matrix	: SOIL	Date Extracted	: 12/02/18
Analytical Method	: 1,8081B	Dilution Factor	: 1
Lab File ID	: 18181206a-06	Analyst	: KB
Sample Amount	: 15.33 g	Instrument ID	: PEST18
Extraction Method	: EPA 3546	GC Column	: CLPPesticides
Extract Volume	: 1000 uL	%Solids	: 66
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
319-86-8	Delta-BHC	ND	2.36	0.462	U
58-89-9	Lindane	ND	0.984	0.440	U
319-84-6	Alpha-BHC	ND	0.984	0.279	U
319-85-7	Beta-BHC	ND	2.36	0.895	U
76-44-8	Heptachlor	ND	1.18	0.529	U
309-00-2	Aldrin	ND	2.36	0.831	U
1024-57-3	Heptachlor epoxide	ND	4.43	1.33	U
72-20-8	Endrin	30.0	0.984	0.403	IP
7421-93-4	Endrin aldehyde	ND	2.95	1.03	U
53494-70-5	Endrin ketone	ND	2.36	0.608	U
60-57-1	Dieldrin	ND	1.48	0.738	U
72-55-9	4,4'-DDE	ND	2.36	0.546	U
72-54-8	4,4'-DDD	ND	2.36	0.842	U
50-29-3	4,4'-DDT	ND	4.43	1.90	U
959-98-8	Endosulfan I	ND	2.36	0.558	U
33213-65-9	Endosulfan II	ND	2.36	0.789	U
1031-07-8	Endosulfan sulfate	ND	0.984	0.468	U
72-43-5	Methoxychlor	ND	4.43	1.38	U
8001-35-2	Toxaphene	ND	44.3	12.4	U
5103-71-9	cis-Chlordane	ND	2.95	0.822	U
5103-74-2	trans-Chlordane	ND	2.95	0.779	U
57-74-9	Chlordane	ND	19.2	7.82	U

Form 1
GC Organics

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-03	Date Collected	: 11/30/18 09:25
Client ID	: CB-03	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/06/18 02:39
Sample Matrix	: SOIL	Date Extracted	: 12/02/18
Analytical Method	: 1,8081B	Dilution Factor	: 1
Lab File ID	: 18181205c-38	Analyst	: BM
Sample Amount	: 5.65 g	Instrument ID	: PEST18
Extraction Method	: EPA 3546	GC Column	: CLPPesticides
Extract Volume	: 1000 uL	%Solids	: 50
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
319-86-8	Delta-BHC	ND	8.51	1.67	U
58-89-9	Lindane	ND	3.55	1.58	U
319-84-6	Alpha-BHC	ND	3.55	1.01	U
319-85-7	Beta-BHC	ND	8.51	3.23	U
76-44-8	Heptachlor	ND	4.26	1.91	U
309-00-2	Aldrin	ND	8.51	3.00	U
1024-57-3	Heptachlor epoxide	ND	16.0	4.79	U
72-20-8	Endrin	16.3	3.55	1.45	
7421-93-4	Endrin aldehyde	ND	10.6	3.72	U
53494-70-5	Endrin ketone	ND	8.51	2.19	U
60-57-1	Dieldrin	ND	5.32	2.66	U
72-55-9	4,4'-DDE	ND	8.51	1.97	U
72-54-8	4,4'-DDD	ND	8.51	3.04	U
50-29-3	4,4'-DDT	ND	16.0	6.84	U
959-98-8	Endosulfan I	ND	8.51	2.01	U
33213-65-9	Endosulfan II	ND	8.51	2.84	U
1031-07-8	Endosulfan sulfate	ND	3.55	1.69	U
72-43-5	Methoxychlor	ND	16.0	4.96	U
8001-35-2	Toxaphene	ND	160	44.7	U
5103-71-9	cis-Chlordane	ND	10.6	2.96	U
5103-74-2	trans-Chlordane	ND	10.6	2.81	U
57-74-9	Chlordane	ND	69.2	28.2	U

Form 1
GC Organics

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-04	Date Collected	: 11/30/18 09:45
Client ID	: CB-04	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/06/18 10:46
Sample Matrix	: SOIL	Date Extracted	: 12/02/18
Analytical Method	: 1,8081B	Dilution Factor	: 1
Lab File ID	: 18181206a-07	Analyst	: KB
Sample Amount	: 15.87 g	Instrument ID	: PEST18
Extraction Method	: EPA 3546	GC Column	: CLPPesticides
Extract Volume	: 1000 uL	%Solids	: 86
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
319-86-8	Delta-BHC	ND	1.75	0.343	U
58-89-9	Lindane	ND	0.729	0.326	U
319-84-6	Alpha-BHC	ND	0.729	0.207	U
319-85-7	Beta-BHC	ND	1.75	0.664	U
76-44-8	Heptachlor	ND	0.875	0.392	U
309-00-2	Aldrin	ND	1.75	0.616	U
1024-57-3	Heptachlor epoxide	ND	3.28	0.984	U
7421-93-4	Endrin aldehyde	ND	2.19	0.766	U
53494-70-5	Endrin ketone	ND	1.75	0.451	U
60-57-1	Dieldrin	ND	1.09	0.547	U
72-55-9	4,4'-DDE	ND	1.75	0.405	U
72-54-8	4,4'-DDD	ND	1.75	0.624	U
50-29-3	4,4'-DDT	ND	3.28	1.41	U
959-98-8	Endosulfan I	ND	1.75	0.414	U
33213-65-9	Endosulfan II	ND	1.75	0.585	U
1031-07-8	Endosulfan sulfate	ND	0.729	0.347	U
72-43-5	Methoxychlor	ND	3.28	1.02	U
8001-35-2	Toxaphene	ND	32.8	9.19	U
5103-71-9	cis-Chlordane	ND	2.19	0.610	U
5103-74-2	trans-Chlordane	ND	2.19	0.578	U
57-74-9	Chlordane	ND	14.2	5.80	U

Form 1
GC Organics

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Lab ID	: L1849060-04	**Date Collected**	: 11/30/18 09:45
Client ID	: CB-04	**Date Received**	: 11/30/18
Sample Location	: PORT OF ALBANY	**Date Analyzed**	: 12/06/18 10:46
Sample Matrix	: SOIL	**Date Extracted**	: 12/02/18
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 18181206a-07	**Analyst**	: KB
Sample Amount	: 15.87 g	**Instrument ID**	: PEST18
Extraction Method	: EPA 3546	**GC Column**	: CLPPesticidesII
Extract Volume	: 1000 uL	**%Solids**	: 86
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/Kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
72-20-8	Endrin	3.15	0.729	0.299	IP

Form 1
GC Organics

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-05	Date Collected	: 11/30/18 10:10
Client ID	: CB-01	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/06/18 10:59
Sample Matrix	: SOIL	Date Extracted	: 12/02/18
Analytical Method	: 1,8081B	Dilution Factor	: 1
Lab File ID	: 18181206a-08	Analyst	: KB
Sample Amount	: 15.14 g	Instrument ID	: PEST18
Extraction Method	: EPA 3546	GC Column	: CLPPesticides
Extract Volume	: 1000 uL	%Solids	: 73
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
319-86-8	Delta-BHC	ND	2.17	0.425	U
58-89-9	Lindane	ND	0.905	0.404	U
319-84-6	Alpha-BHC	ND	0.905	0.257	U
319-85-7	Beta-BHC	ND	2.17	0.823	U
76-44-8	Heptachlor	ND	1.08	0.487	U
309-00-2	Aldrin	ND	2.17	0.764	U
1024-57-3	Heptachlor epoxide	ND	4.07	1.22	U
7421-93-4	Endrin aldehyde	ND	2.71	0.950	U
53494-70-5	Endrin ketone	ND	2.17	0.559	U
60-57-1	Dieldrin	ND	1.36	0.678	U
72-55-9	4,4'-DDE	ND	2.17	0.502	U
72-54-8	4,4'-DDD	ND	2.17	0.774	U
50-29-3	4,4'-DDT	ND	4.07	1.75	U
959-98-8	Endosulfan I	ND	2.17	0.513	U
33213-65-9	Endosulfan II	ND	2.17	0.726	U
1031-07-8	Endosulfan sulfate	ND	0.905	0.431	U
72-43-5	Methoxychlor	ND	4.07	1.27	U
8001-35-2	Toxaphene	ND	40.7	11.4	U
5103-71-9	cis-Chlordane	ND	2.71	0.756	U
5103-74-2	trans-Chlordane	ND	2.71	0.716	U
57-74-9	Chlordane	ND	17.6	7.19	U

Form 1
GC Organics

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Lab ID	: L1849060-05	**Date Collected**	: 11/30/18 10:10
Client ID	: CB-01	**Date Received**	: 11/30/18
Sample Location	: PORT OF ALBANY	**Date Analyzed**	: 12/06/18 10:59
Sample Matrix	: SOIL	**Date Extracted**	: 12/02/18
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 18181206a-08	**Analyst**	: KB
Sample Amount	: 15.14 g	**Instrument ID**	: PEST18
Extraction Method	: EPA 3546	**GC Column**	: CLPPesticidesII
Extract Volume	: 1000 uL	**%Solids**	: 73
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/Kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
72-20-8	Endrin	51.6	0.905	0.371	

Form 1
GC Organics

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-06	Date Collected	: 11/30/18 12:00
Client ID	: DUP-18	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/06/18 11:11
Sample Matrix	: SOIL	Date Extracted	: 12/02/18
Analytical Method	: 1,8081B	Dilution Factor	: 1
Lab File ID	: 18181206a-09	Analyst	: KB
Sample Amount	: 5.99 g	Instrument ID	: PEST18
Extraction Method	: EPA 3546	GC Column	: CLPPesticides
Extract Volume	: 1000 uL	%Solids	: 49
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
319-86-8	Delta-BHC	ND	8.21	1.61	U
58-89-9	Lindane	ND	3.42	1.53	U
319-84-6	Alpha-BHC	ND	3.42	0.972	U
319-85-7	Beta-BHC	ND	8.21	3.11	U
76-44-8	Heptachlor	ND	4.10	1.84	U
309-00-2	Aldrin	ND	8.21	2.89	U
1024-57-3	Heptachlor epoxide	ND	15.4	4.62	U
72-20-8	Endrin	16.9	3.42	1.40	
7421-93-4	Endrin aldehyde	ND	10.3	3.59	U
53494-70-5	Endrin ketone	ND	8.21	2.11	U
60-57-1	Dieldrin	ND	5.13	2.56	U
72-55-9	4,4'-DDE	ND	8.21	1.90	U
72-54-8	4,4'-DDD	ND	8.21	2.93	U
50-29-3	4,4'-DDT	ND	15.4	6.60	U
959-98-8	Endosulfan I	ND	8.21	1.94	U
33213-65-9	Endosulfan II	ND	8.21	2.74	U
1031-07-8	Endosulfan sulfate	ND	3.42	1.63	U
8001-35-2	Toxaphene	ND	154	43.1	U
5103-71-9	cis-Chlordane	ND	10.3	2.86	U
5103-74-2	trans-Chlordane	ND	10.3	2.71	U
57-74-9	Chlordane	ND	66.7	27.2	U

Form 1
GC Organics

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Lab ID	: L1849060-06	**Date Collected**	: 11/30/18 12:00
Client ID	: DUP-18	**Date Received**	: 11/30/18
Sample Location	: PORT OF ALBANY	**Date Analyzed**	: 12/06/18 11:11
Sample Matrix	: SOIL	**Date Extracted**	: 12/02/18
Analytical Method	: 1,8081B	**Dilution Factor**	: 1
Lab File ID	: 18181206a-09	**Analyst**	: KB
Sample Amount	: 5.99 g	**Instrument ID**	: PEST18
Extraction Method	: EPA 3546	**GC Column**	: CLPPesticidesII
Extract Volume	: 1000 uL	**%Solids**	: 49
GPC Cleanup	: N	**Injection Volume**	: 1 uL
Sulfur Cleanup	: N		

		ug/Kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
72-43-5	Methoxychlor	28.9	15.4	4.79	

Form 1
GC Organics

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: WG1184846-1	Date Collected	: NA
Client ID	: WG1184846-1BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 12/06/18 01:36
Sample Matrix	: SOIL	Date Extracted	: 12/02/18
Analytical Method	: 1,8081B	Dilution Factor	: 1
Lab File ID	: 18181205c-33	Analyst	: SL
Sample Amount	: 15.74 g	Instrument ID	: PEST18
Extraction Method	: EPA 3546	GC Column	: CLPPesticides
Extract Volume	: 1000 uL	%Solids	: NA
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
319-86-8	Delta-BHC	ND	1.52	0.299	U
58-89-9	Lindane	ND	0.635	0.284	U
319-84-6	Alpha-BHC	ND	0.635	0.180	U
319-85-7	Beta-BHC	ND	1.52	0.578	U
76-44-8	Heptachlor	ND	0.762	0.342	U
309-00-2	Aldrin	ND	1.52	0.537	U
1024-57-3	Heptachlor epoxide	ND	2.86	0.858	U
72-20-8	Endrin	ND	0.635	0.260	U
7421-93-4	Endrin aldehyde	ND	1.90	0.667	U
53494-70-5	Endrin ketone	ND	1.52	0.393	U
60-57-1	Dieldrin	ND	0.953	0.476	U
72-55-9	4,4'-DDE	ND	1.52	0.353	U
72-54-8	4,4'-DDD	ND	1.52	0.544	U
50-29-3	4,4'-DDT	ND	2.86	1.23	U
959-98-8	Endosulfan I	ND	1.52	0.360	U
33213-65-9	Endosulfan II	ND	1.52	0.510	U
1031-07-8	Endosulfan sulfate	ND	0.635	0.302	U
72-43-5	Methoxychlor	ND	2.86	0.889	U
8001-35-2	Toxaphene	ND	28.6	8.00	U
5103-71-9	cis-Chlordane	ND	1.90	0.531	U
57-74-9	Chlordane	ND	12.4	5.05	U

Form 1
GC Organics

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: WG1184846-1	Date Collected	: NA
Client ID	: WG1184846-1BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 12/06/18 01:36
Sample Matrix	: SOIL	Date Extracted	: 12/02/18
Analytical Method	: 1,8081B	Dilution Factor	: 1
Lab File ID	: 18181205c-33	Analyst	: SL
Sample Amount	: 15.74 g	Instrument ID	: PEST18
Extraction Method	: EPA 3546	GC Column	: CLPPesticidesII
Extract Volume	: 1000 uL	%Solids	: NA
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
5103-74-2	trans-Chlordane	ND	1.90	0.503	U

Quantitation Report (QT Reviewed)

Data Path : I:\Pest18\181206A\
Data File : 18181206a-06.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Dec 2018 10:33 am
Operator : PEST18:kb
Sample : l1849060-02,42e,,
Misc : wg1186320,wg1184846,ical15103
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 07 13:11:14 2018
Quant Method : I:\Pest18\181206A\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Thu Dec 06 13:55:38 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest18\181206A\18181206a-02.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.743	1.851	746.8E6	651.5E6	25.000	25.000M4
	Standard Area 1 : #1 = 764359744				Recovery =	97.71%	
	Standard Area 1 : #2 = 827599644				Recovery =	78.73%	
28) i	1-br-2-nb_Ch	1.743	1.851	746.8E6	651.5E6	25.000	25.000M4
33) i	1-br-2-nb_To	1.743	1.851	746.8E6	651.5E6	25.000	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.211	2.433	986.5E6	1132.5E6	33.563	44.160
	Spiked Amount 50.000	Range 30 - 150		Recovery =		67.13%	88.32%
27) s	Decachlorobi	6.178	6.769f	883.3E6	1024.9E6	33.203M4	50.129M3
	Spiked Amount 50.000	Range 30 - 150		Recovery =		66.41%	100.26%
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	4.519	5.019	1110.0E6	1506.4E6	30.551 I	49.117 D
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\Pest18\181206A\
Data File : 18181206a-06.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Dec 2018 10:33 am
Operator : PEST18:kb
Sample : l1849060-02,42e,,
Misc : wg1186320,wg1184846,ical15103
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 07 13:11:14 2018
Quant Method : I:\Pest18\181206A\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Thu Dec 06 13:55:38 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest18\181206A\18181206a-02.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

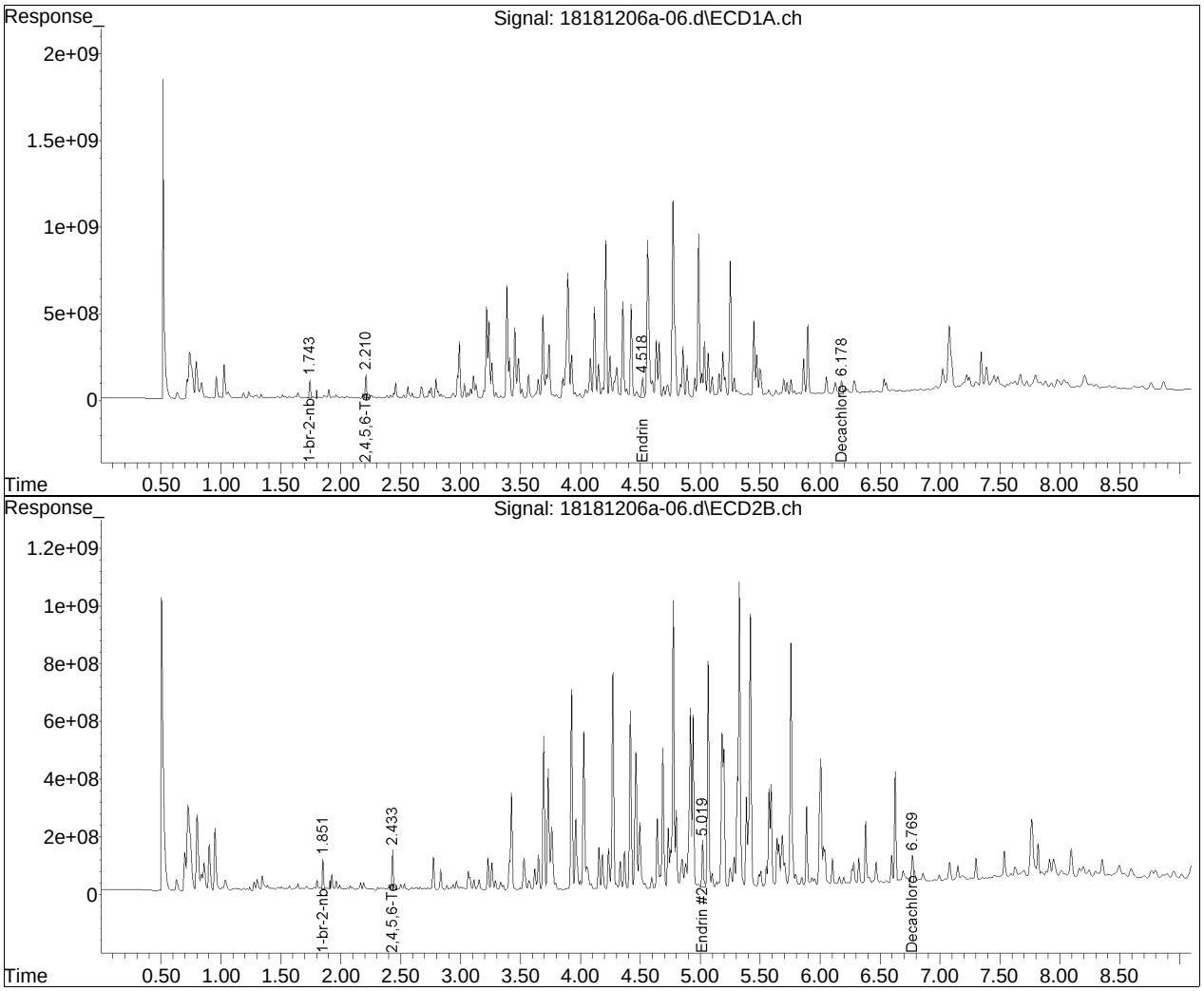
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda-02.d••d)

Data Path : I:\Pest18\181206A\
Data File : 18181206a-06.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Dec 2018 10:33 am
Operator : PEST18:kb
Sample : l1849060-02,42e,,
Misc : wg1186320,wg1184846,ical15103
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 07 13:11:14 2018
Quant Method : I:\Pest18\181206A\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Thu Dec 06 13:55:38 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

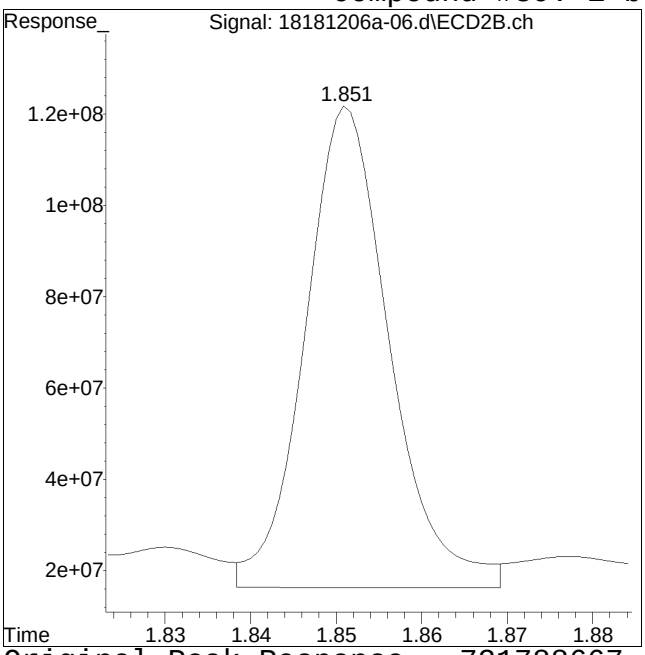


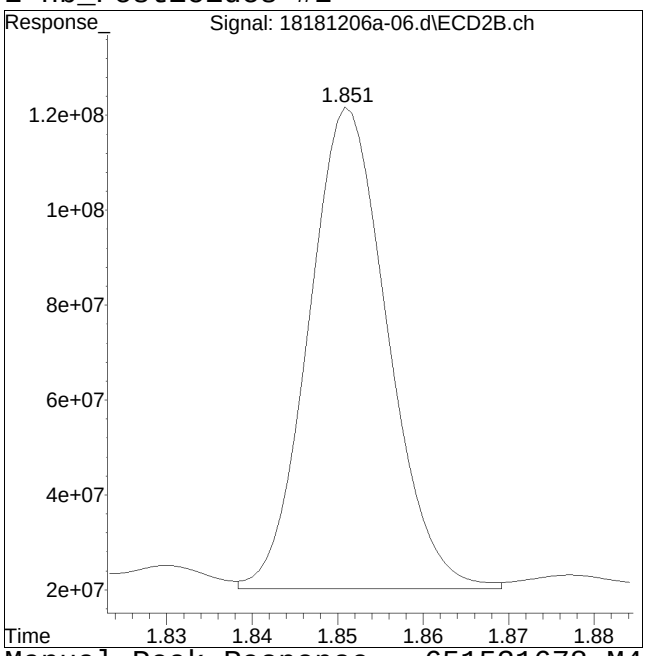
Manual Integration Report

Data Path : I:\Pest18\181206A\
Data File : 18181206a-06.d
Date Inj'd : 12/6/2018 10:33 am
Sample : l1849060-02,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:kb
Instrument : Pest 18
Quant Date : 12/7/2018 1:08 pm

Compound #39: 1-br-2-nb_Pesticides #2





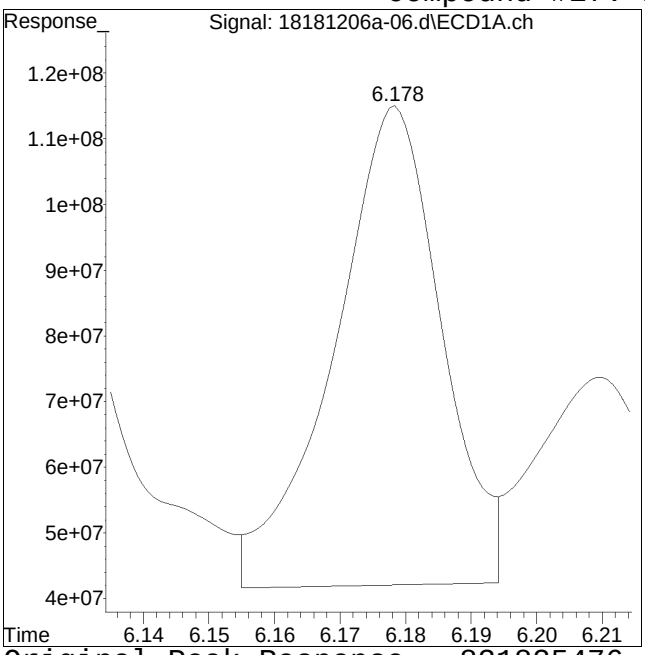
Original Peak Response = 721788667 Manual Peak Response = 651531678 M4
M4 = Poor automated baseline construction.

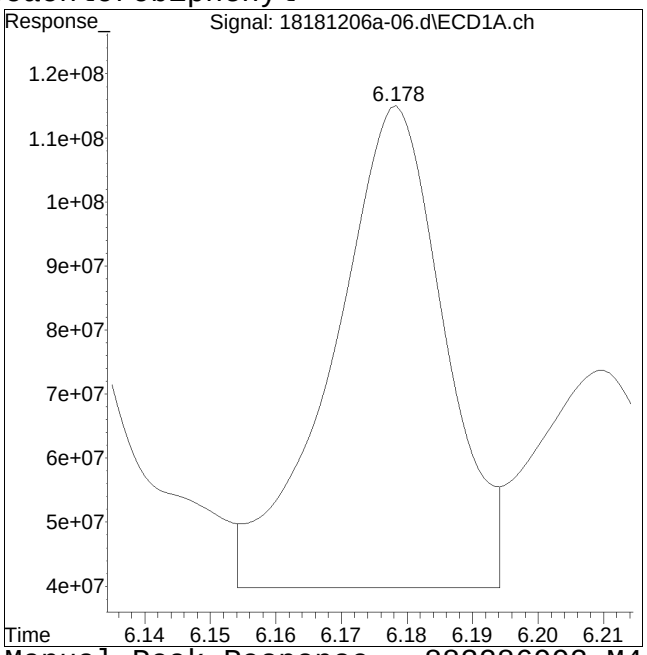
Manual Integration Report

Data Path : I:\Pest18\181206A\
Data File : 18181206a-06.d
Date Inj'd : 12/6/2018 10:33 am
Sample : l1849060-02,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:kb
Instrument : Pest 18
Quant Date : 12/7/2018 1:08 pm

Compound #27: Decachlorobiphenyl





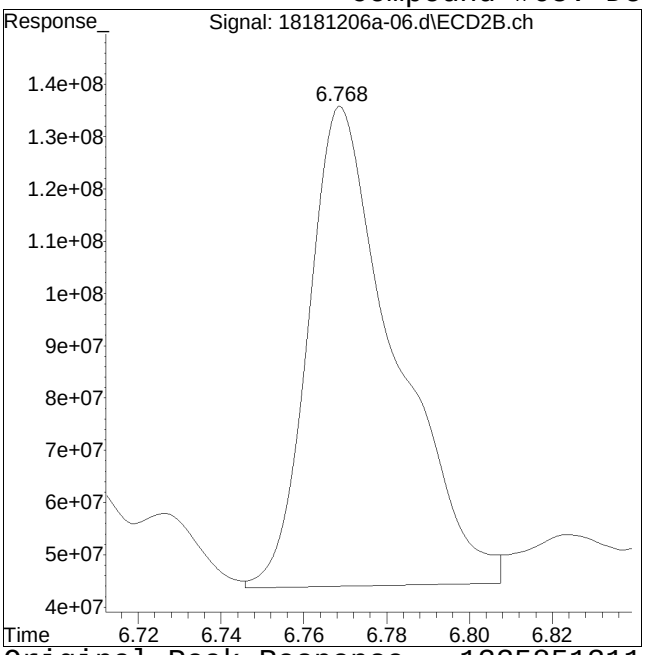
Original Peak Response = 831825476 Manual Peak Response = 883286992 M4
M4 = Poor automated baseline construction.

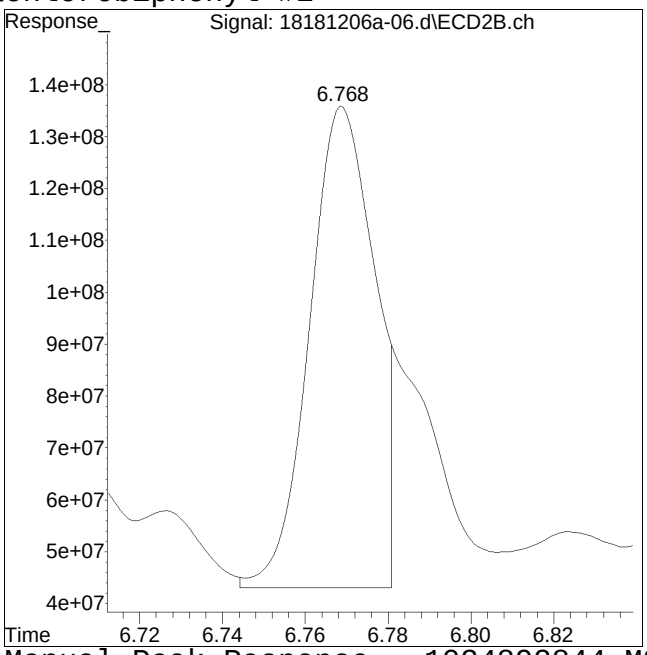
Manual Integration Report

Data Path : I:\Pest18\181206A\
Data File : 18181206a-06.d
Date Inj'd : 12/6/2018 10:33 am
Sample : l1849060-02,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:kb
Instrument : Pest 18
Quant Date : 12/7/2018 1:08 pm

Compound #65: Decachlorobiphenyl #2





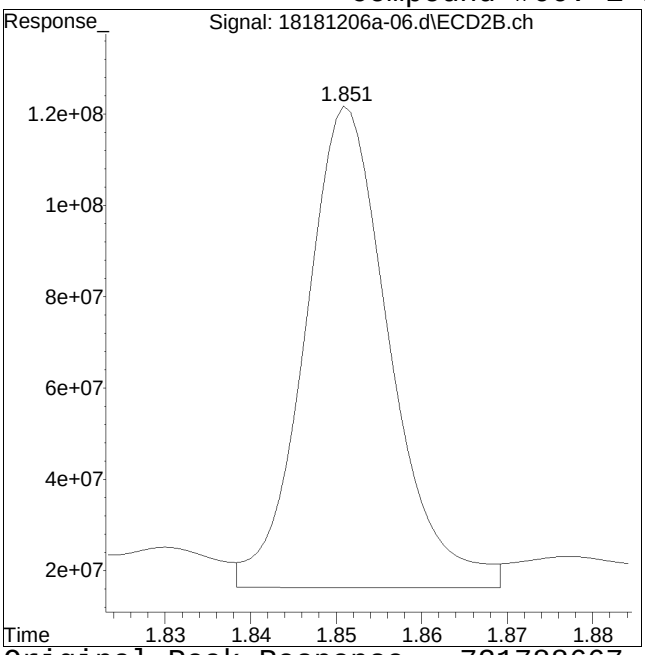
Original Peak Response = 1335851311 Manual Peak Response = 1024892844 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

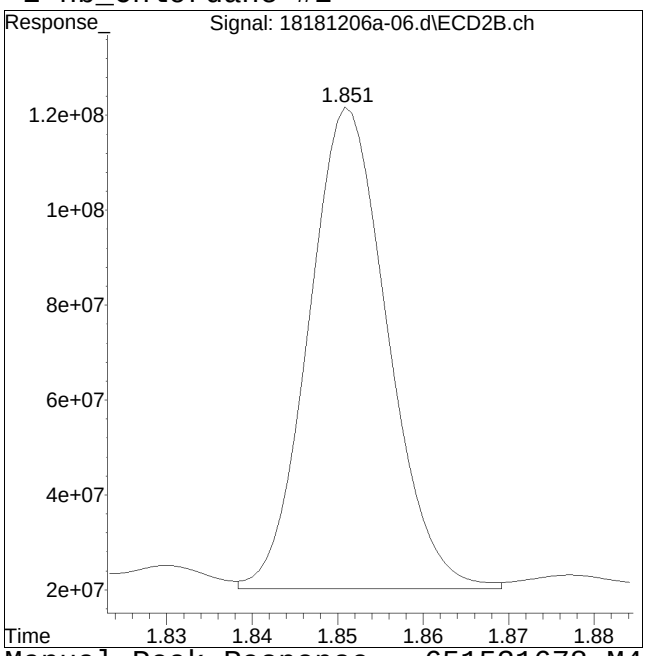
Manual Integration Report

Data Path : I:\Pest18\181206A\
Data File : 18181206a-06.d
Date Inj'd : 12/6/2018 10:33 am
Sample : l1849060-02,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:kb
Instrument : Pest 18
Quant Date : 12/7/2018 1:08 pm

Compound #66: 1-br-2-nb_Chlordane #2





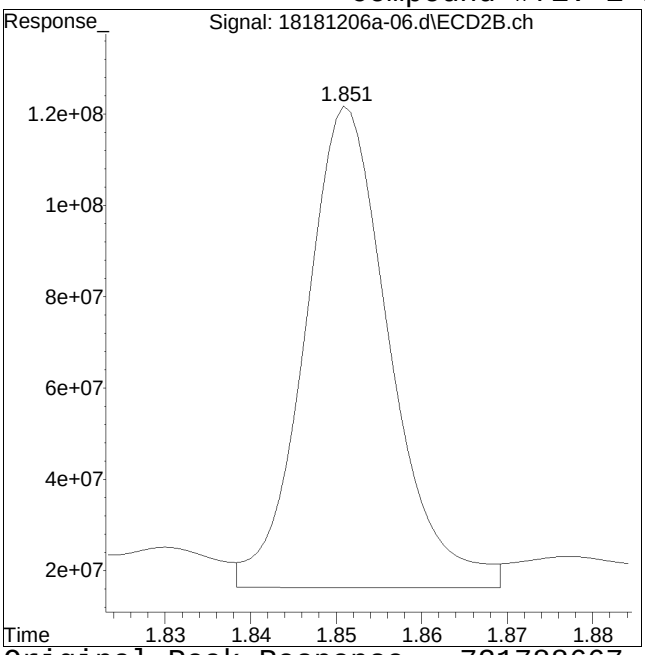
Original Peak Response = 721788667 Manual Peak Response = 651531678 M4
M4 = Poor automated baseline construction.

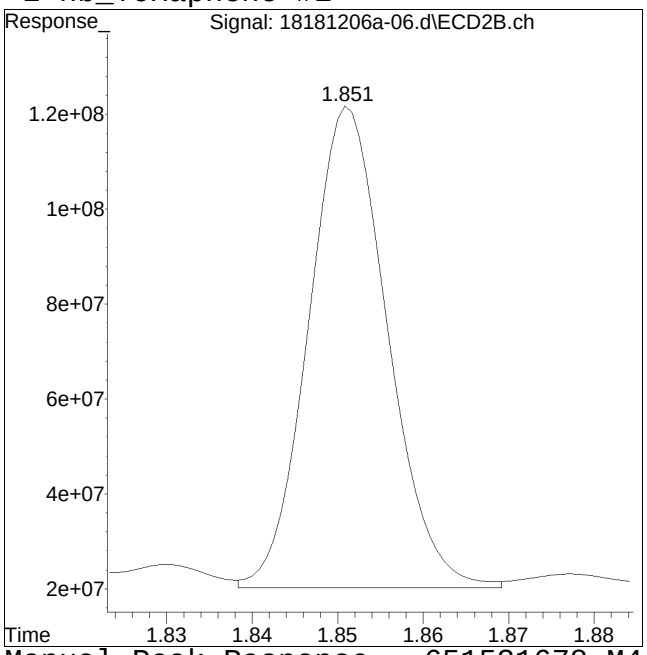
Manual Integration Report

Data Path : I:\Pest18\181206A\
Data File : 18181206a-06.d
Date Inj'd : 12/6/2018 10:33 am
Sample : l1849060-02,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:kb
Instrument : Pest 18
Quant Date : 12/7/2018 1:08 pm

Compound #71: 1-br-2-nb_Toxaphene #2





Original Peak Response = 721788667 Manual Peak Response = 651531678 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest18\181206A\
Data File : 18181206a-07.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Dec 2018 10:46 am
Operator : PEST18:kb
Sample : l1849060-04,42e,,
Misc : wg1186320,wg1184846,ical15103
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 07 13:27:32 2018
Quant Method : I:\Pest18\181206A\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Thu Dec 06 13:55:38 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest18\181206A\18181206a-02.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.741	1.850	597.3E6	690.1E6	25.000	25.000
	Standard Area 1 : #1 = 764359744				Recovery =		78.14%
	Standard Area 1 : #2 = 827599644				Recovery =		83.39%
28) i	1-br-2-nb_Ch	1.741	1.850	597.3E6	690.1E6	25.000	25.000
33) i	1-br-2-nb_To	1.741	1.850	597.3E6	690.1E6	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.209	2.431	1261.6E6	1276.5E6	54.023	47.034
	Spiked Amount 50.000	Range 30 - 150		Recovery =		108.05%	94.07%
27) s	Decachlorobi	6.174	6.757	680.9E6	776.2E6	31.981M4	35.650M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		63.96%	71.30%
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	4.519	5.017	270.3E6	154.7E6	8.977M4	4.322M4I

D

Data Path : I:\Pest18\181206A\
Data File : 18181206a-07.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Dec 2018 10:46 am
Operator : PEST18:kb
Sample : l1849060-04,42e,,
Misc : wg1186320,wg1184846,ical15103
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 07 13:27:32 2018
Quant Method : I:\Pest18\181206A\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Thu Dec 06 13:55:38 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest18\181206A\18181206a-02.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

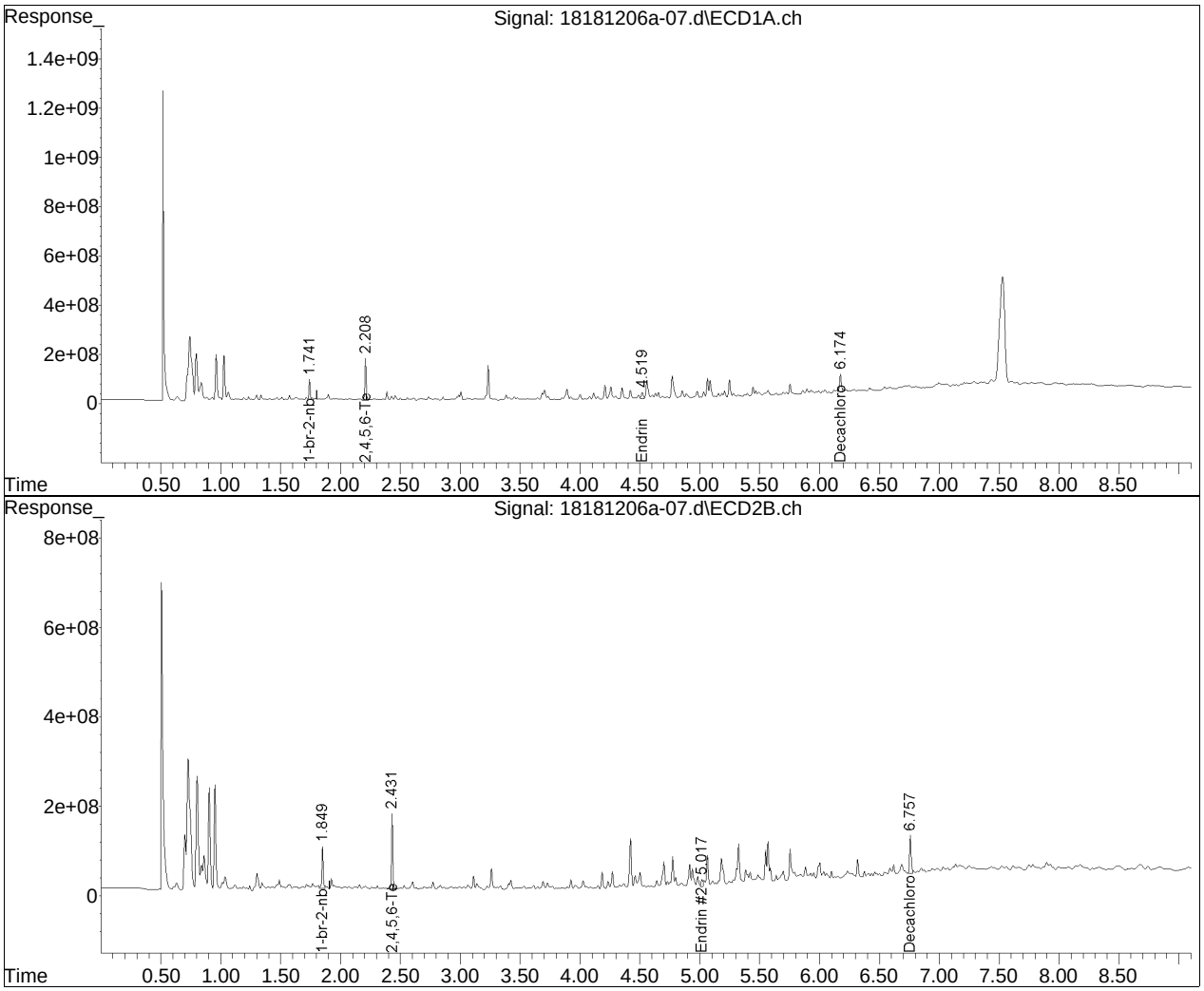
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda-02.d••d)

Data Path : I:\Pest18\181206A\
Data File : 18181206a-07.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Dec 2018 10:46 am
Operator : PEST18:kb
Sample : l1849060-04,42e,,
Misc : wg1186320,wg1184846,ical15103
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 07 13:27:32 2018
Quant Method : I:\Pest18\181206A\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Thu Dec 06 13:55:38 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

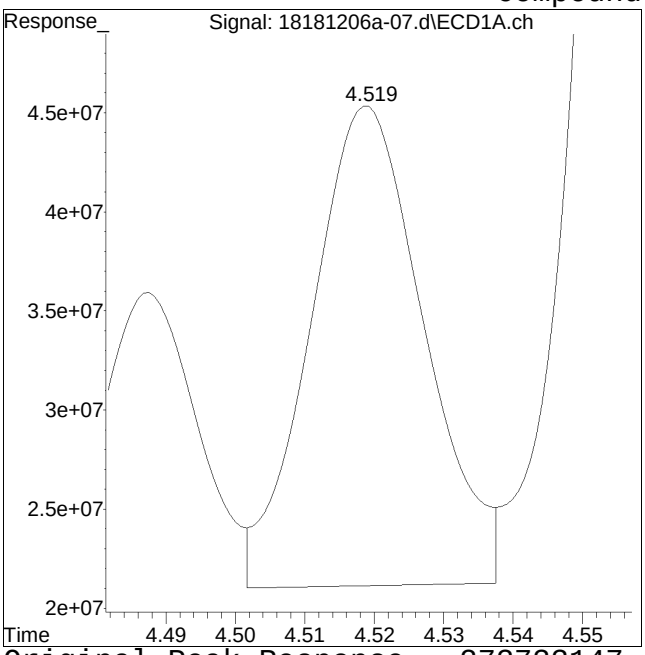


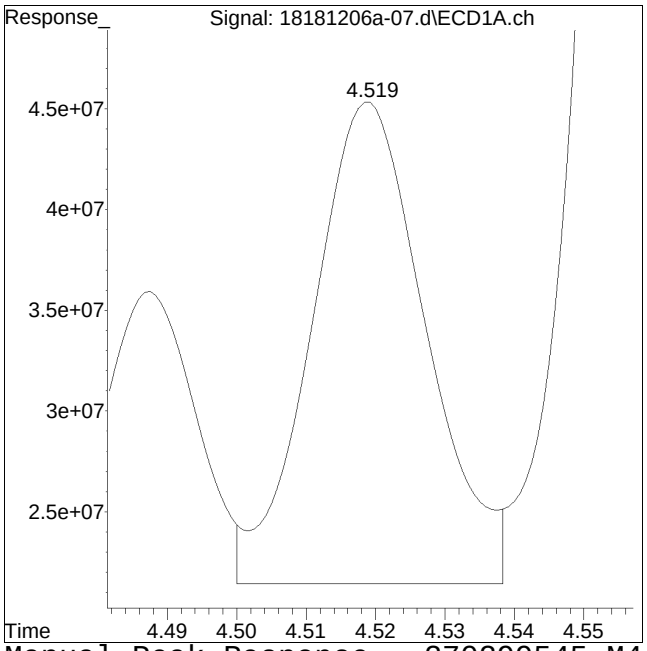
Manual Integration Report

Data Path : I:\Pest18\181206A\
Data File : 18181206a-07.d
Date Inj'd : 12/6/2018 10:46 am
Sample : l1849060-04,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:kb
Instrument : Pest 18
Quant Date : 12/7/2018 1:11 pm

Compound #18: Endrin





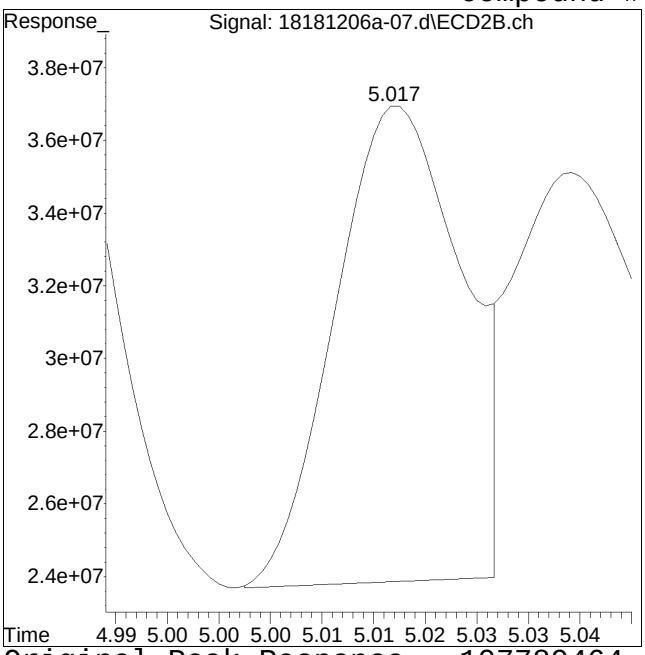
Original Peak Response = 273733147 Manual Peak Response = 270299545 M4
M4 = Poor automated baseline construction.

Manual Integration Report

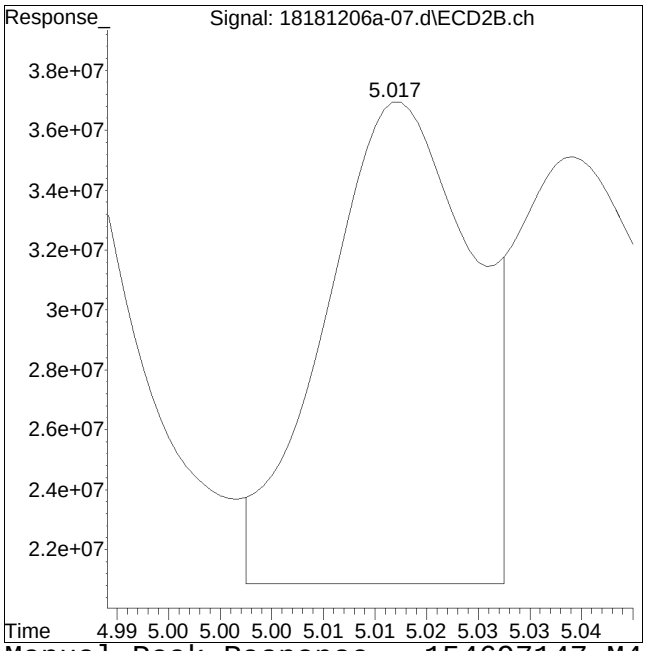
Data Path : I:\Pest18\181206A\
Data File : 18181206a-07.d
Date Inj'd : 12/6/2018 10:46 am
Sample : l1849060-04,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:kb
Instrument : Pest 18
Quant Date : 12/7/2018 1:11 pm

Compound #56: Endrin #2



Original Peak Response = 107789464



Manual Peak Response = 154697147 M4

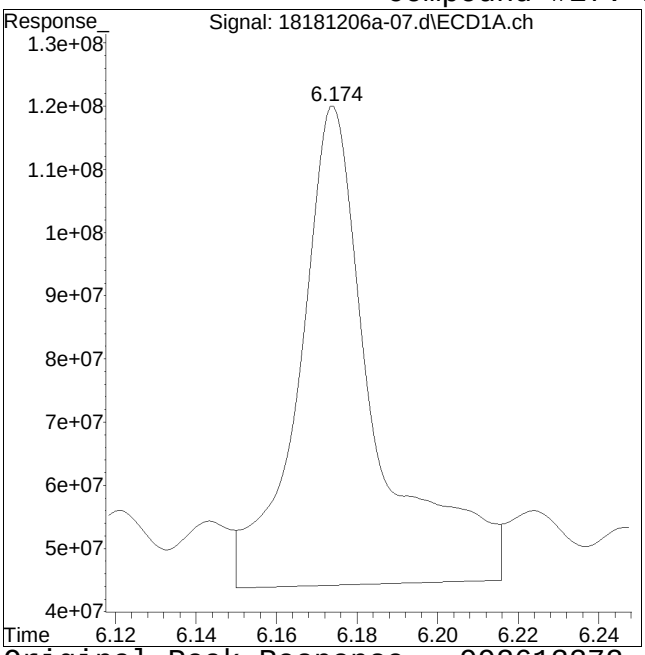
M4 = Poor automated baseline construction.

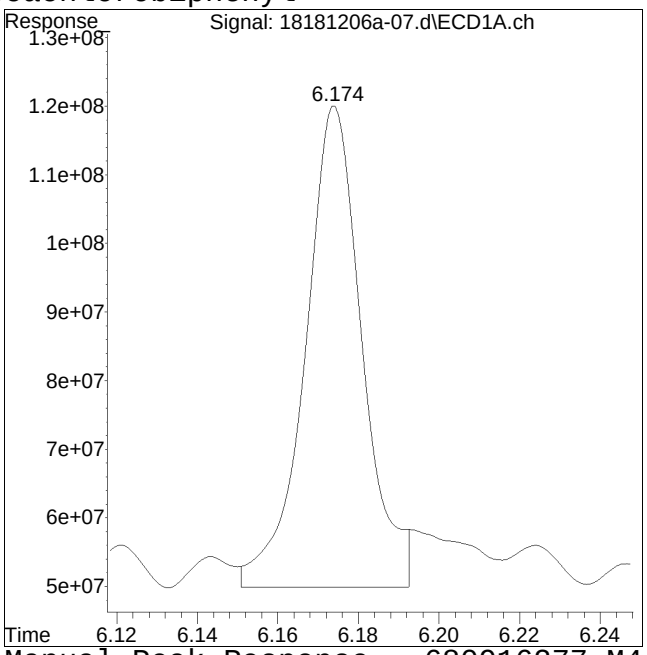
Manual Integration Report

Data Path : I:\Pest18\181206A\
Data File : 18181206a-07.d
Date Inj'd : 12/6/2018 10:46 am
Sample : l1849060-04,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:kb
Instrument : Pest 18
Quant Date : 12/7/2018 1:11 pm

Compound #27: Decachlorobiphenyl





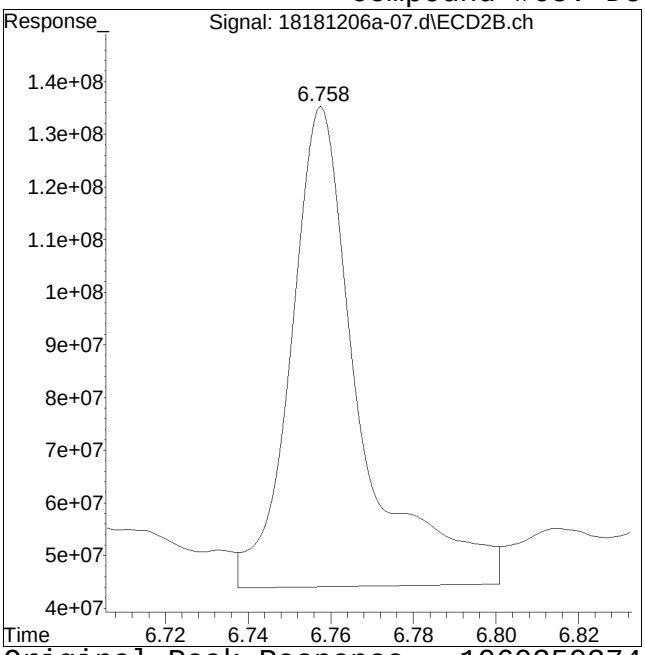
Original Peak Response = 992613372 Manual Peak Response = 680916277 M4
M4 = Poor automated baseline construction.

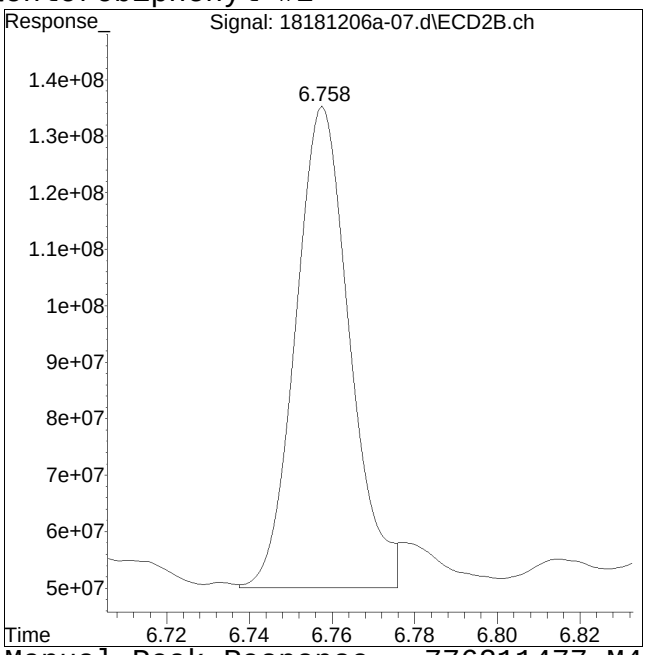
Manual Integration Report

Data Path : I:\Pest18\181206A\
Data File : 18181206a-07.d
Date Inj'd : 12/6/2018 10:46 am
Sample : l1849060-04,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:kb
Instrument : Pest 18
Quant Date : 12/7/2018 1:11 pm

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 1060359374 Manual Peak Response = 776211477 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest18\181206A\
Data File : 18181206a-08.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Dec 2018 10:59 am
Operator : PEST18:kb
Sample : l1849060-05,42e,,
Misc : wg1186320,wg1184846,ical15103
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 07 13:29:47 2018
Quant Method : I:\Pest18\181206A\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Thu Dec 06 13:55:38 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest18\181206A\18181206a-02.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.742	1.850	743.1E6	731.6E6	25.000	25.000
	Standard Area 1 : #1 = 764359744				Recovery =		97.22%
	Standard Area 1 : #2 = 827599644				Recovery =		88.39%
28) i	1-br-2-nb_Ch	1.742	1.850	743.1E6	731.6E6	25.000	25.000
33) i	1-br-2-nb_To	1.742	1.850	743.1E6	731.6E6	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.208	2.431	997.4E6	1165.9E6	34.114	40.441
	Spiked Amount 50.000	Range 30 - 150		Recovery =		68.23%	80.88%
27) s	Decachlorobi	6.175	6.760	708.6E6	679.2E6	26.650	29.309M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		53.30%	58.62%
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D.
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	4.515	5.017	1481.3E6	1960.7E6	41.135	57.012M4
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\Pest18\181206A\
Data File : 18181206a-08.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Dec 2018 10:59 am
Operator : PEST18:kb
Sample : l1849060-05,42e,,
Misc : wg1186320,wg1184846,ical15103
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 07 13:29:47 2018
Quant Method : I:\Pest18\181206A\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Thu Dec 06 13:55:38 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest18\181206A\18181206a-02.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

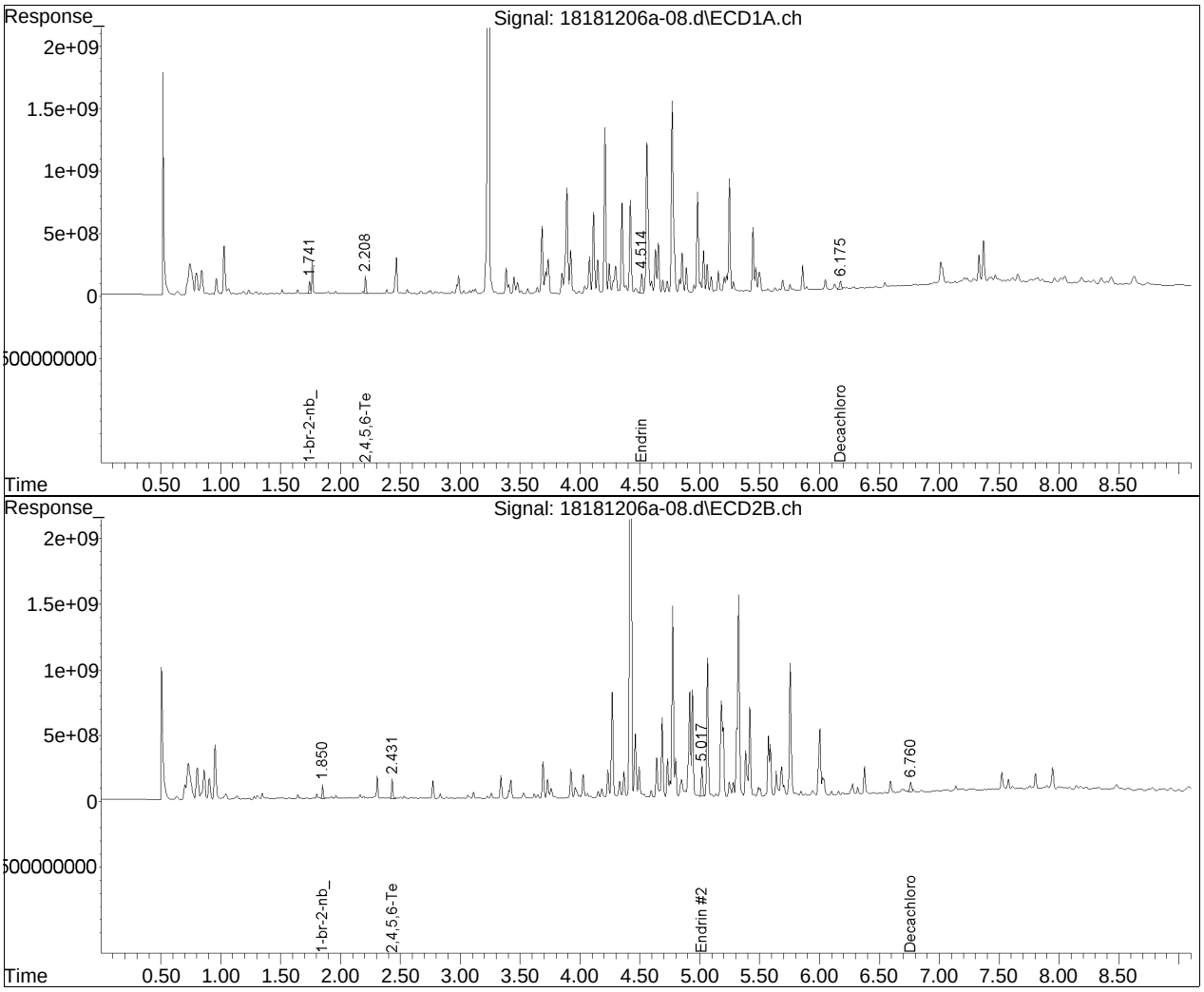
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda-02.d••d)

Data Path : I:\Pest18\181206A\
Data File : 18181206a-08.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Dec 2018 10:59 am
Operator : PEST18:kb
Sample : l1849060-05,42e,,
Misc : wg1186320,wg1184846,ical15103
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 07 13:29:47 2018
Quant Method : I:\Pest18\181206A\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Thu Dec 06 13:55:38 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

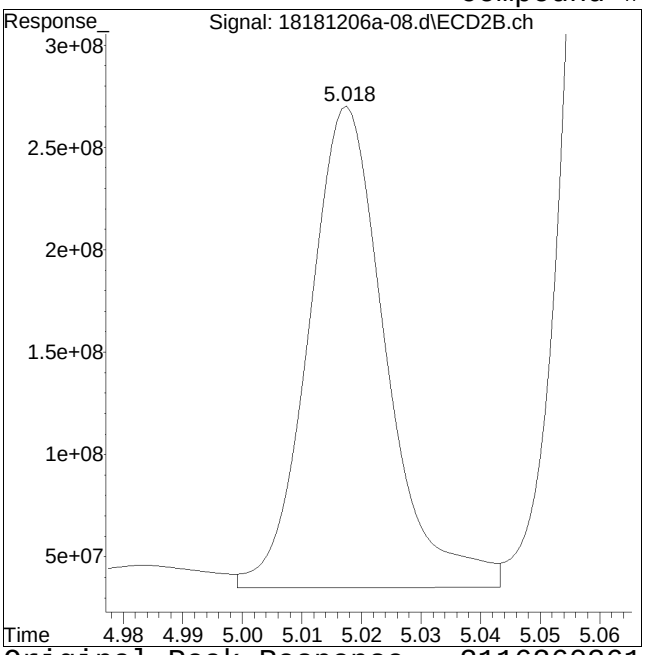


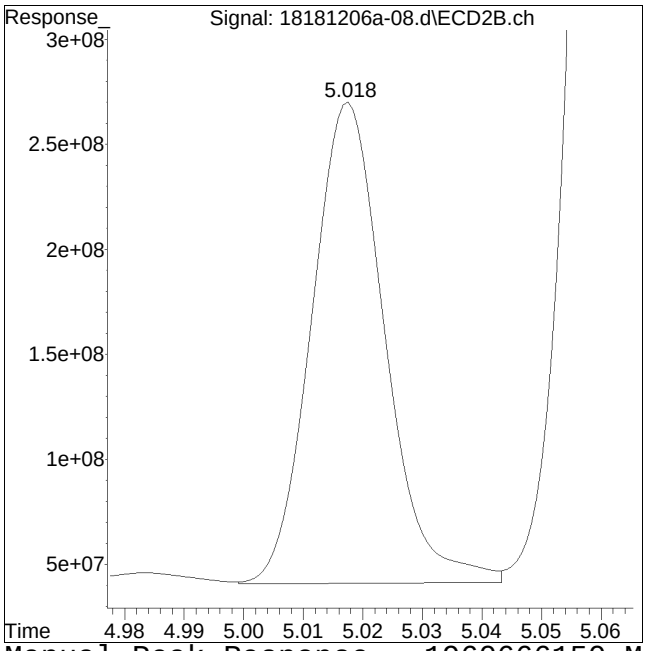
Manual Integration Report

Data Path : I:\Pest18\181206A\
Data File : 18181206a-08.d
Date Inj'd : 12/6/2018 10:59 am
Sample : l1849060-05,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:kb
Instrument : Pest 18
Quant Date : 12/7/2018 1:27 pm

Compound #56: Endrin #2





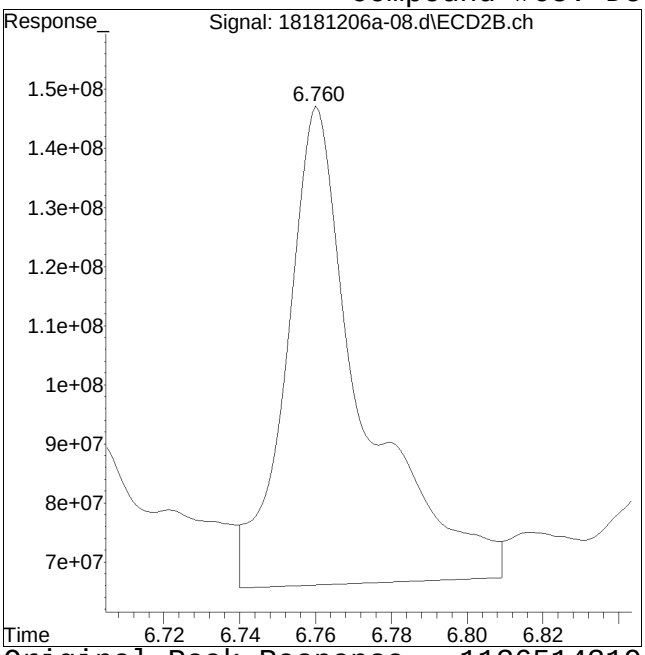
Original Peak Response = 2116260361 Manual Peak Response = 1960666150 M4
M4 = Poor automated baseline construction.

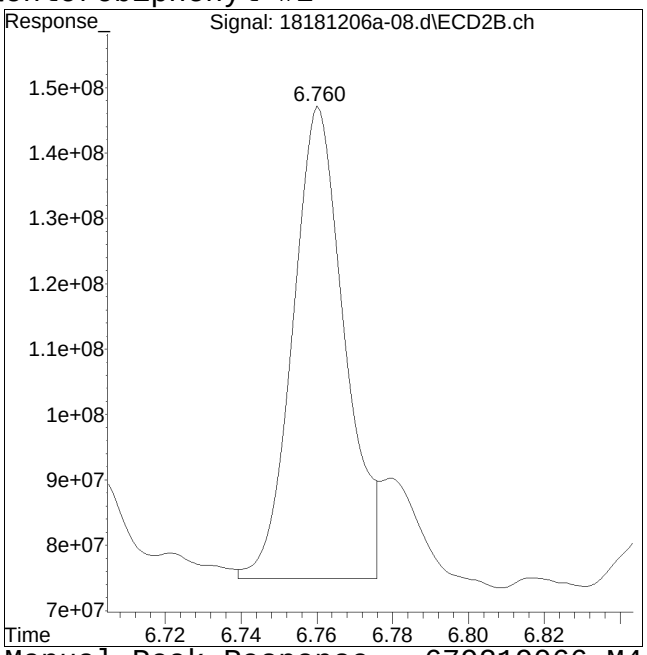
Manual Integration Report

Data Path : I:\Pest18\181206A\
Data File : 18181206a-08.d
Date Inj'd : 12/6/2018 10:59 am
Sample : l1849060-05,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:kb
Instrument : Pest 18
Quant Date : 12/7/2018 1:27 pm

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 1136514319 Manual Peak Response = 679219066 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest18\181206A\
Data File : 18181206a-09.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Dec 2018 11:11 am
Operator : PEST18:kb
Sample : l1849060-06,42e,,
Misc : wg1186320,wg1184846,ical15103
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 07 13:32:33 2018
Quant Method : I:\Pest18\181206A\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Thu Dec 06 13:55:38 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest18\181206A\18181206a-02.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.741	1.850	641.1E6	718.5E6	25.000	25.000
	Standard Area 1 : #1 = 764359744				Recovery =		83.87%
	Standard Area 1 : #2 = 827599644				Recovery =		86.81%
28) i	1-br-2-nb_Ch	1.741	1.850	641.1E6	718.5E6	25.000	25.000
33) i	1-br-2-nb_To	1.741	1.850	641.1E6	718.5E6	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.208	2.431	1147.6E6	1354.3E6	45.692	47.941
	Spiked Amount 50.000	Range 30 - 150		Recovery =		91.38%	95.88%
27) s	Decachlorobi	6.174	6.757	533.8E6	644.8E6	23.192M4	28.309M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		46.38%	56.62%
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	4.515	5.018	165.9E6	159.5E6	4.932	4.276
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\Pest18\181206A\
Data File : 18181206a-09.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Dec 2018 11:11 am
Operator : PEST18:kb
Sample : l1849060-06,42e,,
Misc : wg1186320,wg1184846,ical15103
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 07 13:32:33 2018
Quant Method : I:\Pest18\181206A\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Thu Dec 06 13:55:38 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest18\181206A\18181206a-02.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	5.153	5.790	124.6E6	143.3E6	7.713M4	8.448M4
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

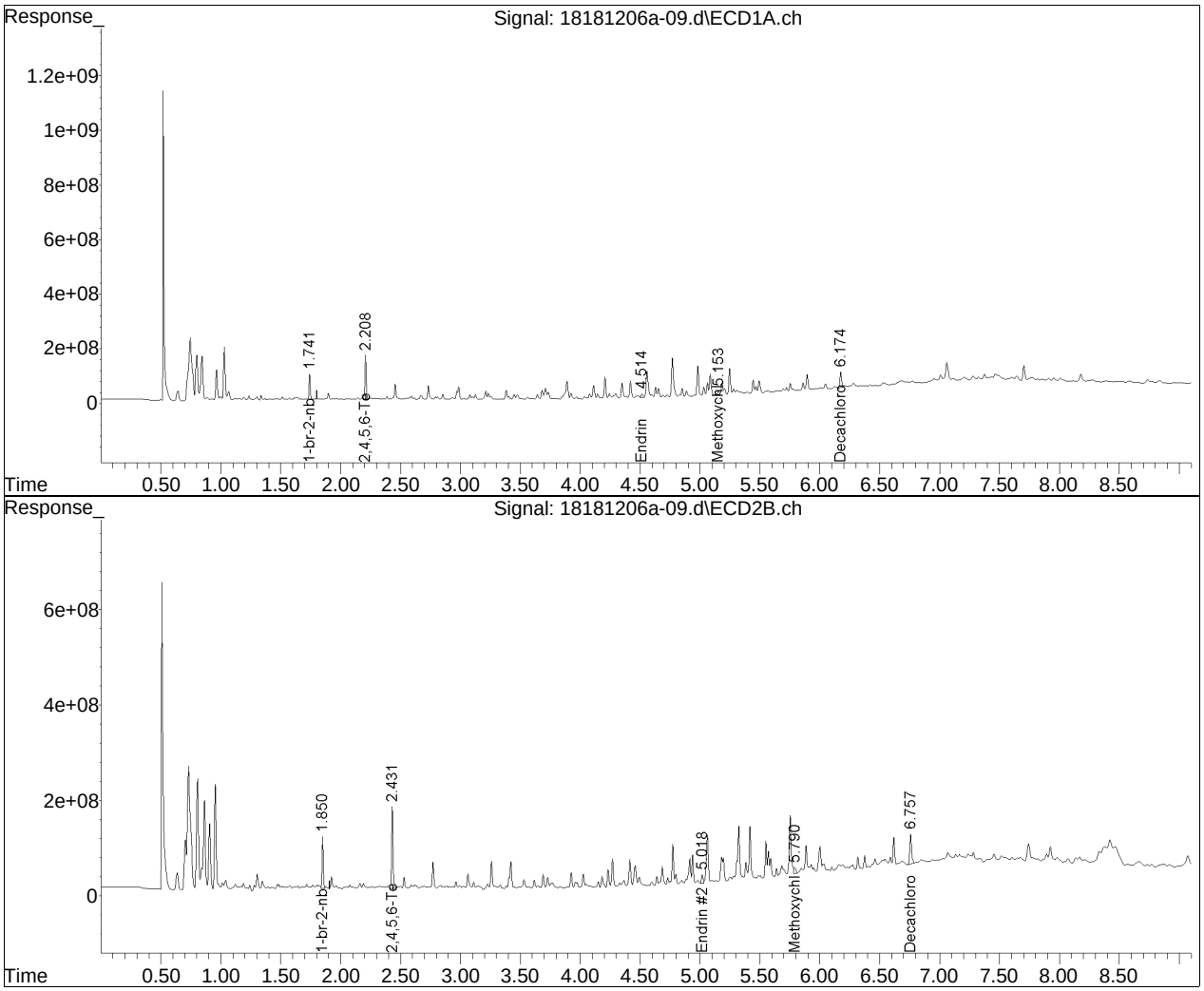
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listeda-02.d••d)

Data Path : I:\Pest18\181206A\
Data File : 18181206a-09.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Dec 2018 11:11 am
Operator : PEST18:kb
Sample : l1849060-06,42e,,
Misc : wg1186320,wg1184846,ical15103
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 07 13:32:33 2018
Quant Method : I:\Pest18\181206A\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Thu Dec 06 13:55:38 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

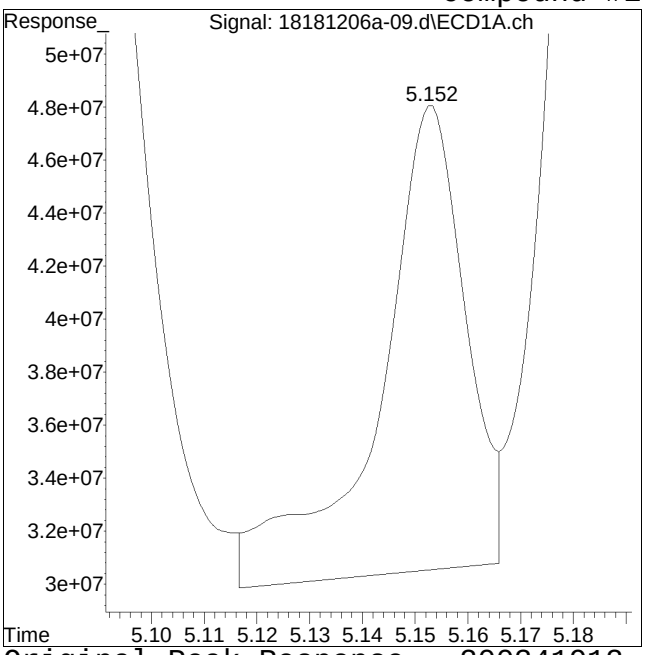


Manual Integration Report

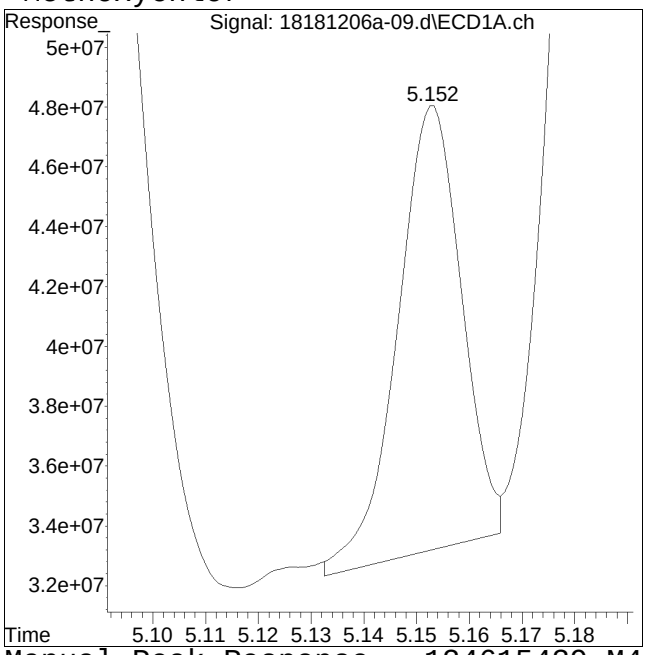
Data Path : I:\Pest18\181206A\
Data File : 18181206a-09.d
Date Inj'd : 12/6/2018 11:11 am
Sample : l1849060-06,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:kb
Instrument : Pest 18
Quant Date : 12/7/2018 1:30 pm

Compound #23: Methoxychlor



Original Peak Response = 200341912



Manual Peak Response = 124615439 M4

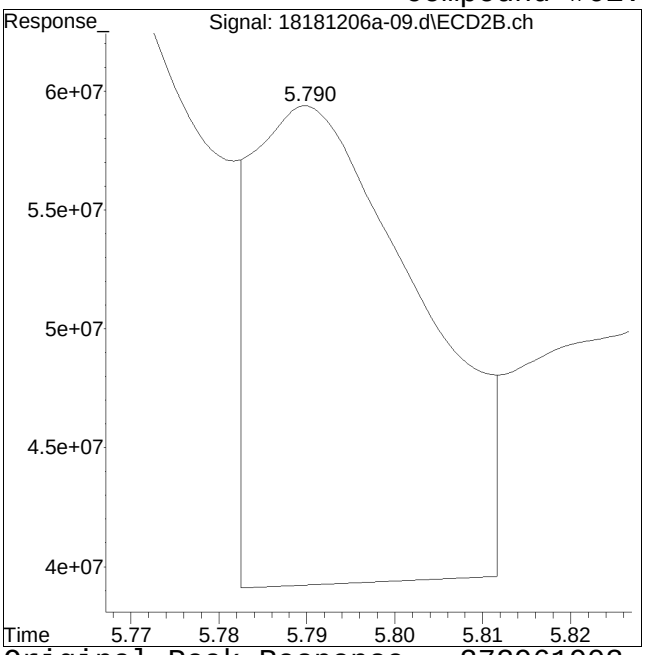
M4 = Poor automated baseline construction.

Manual Integration Report

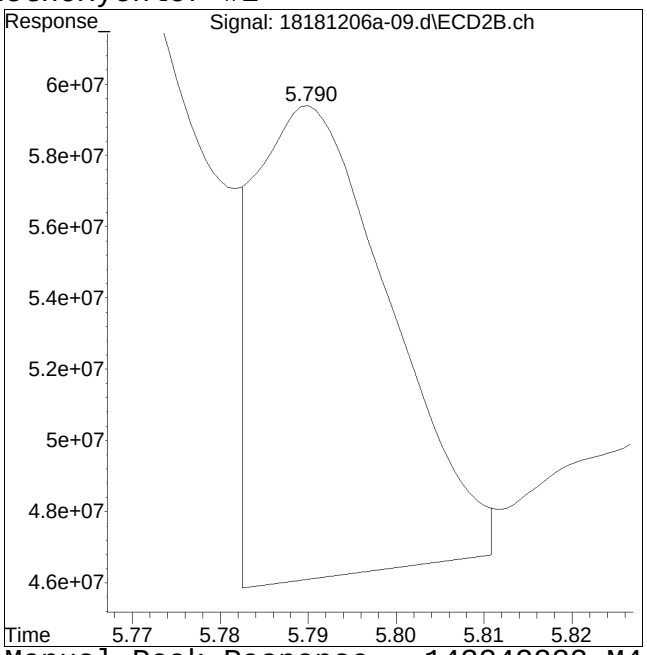
Data Path : I:\Pest18\181206A\
Data File : 18181206a-09.d
Date Inj'd : 12/6/2018 11:11 am
Sample : l1849060-06,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:kb
Instrument : Pest 18
Quant Date : 12/7/2018 1:30 pm

Compound #61: Methoxychlor #2



Original Peak Response = 272961903



Manual Peak Response = 143342232 M4

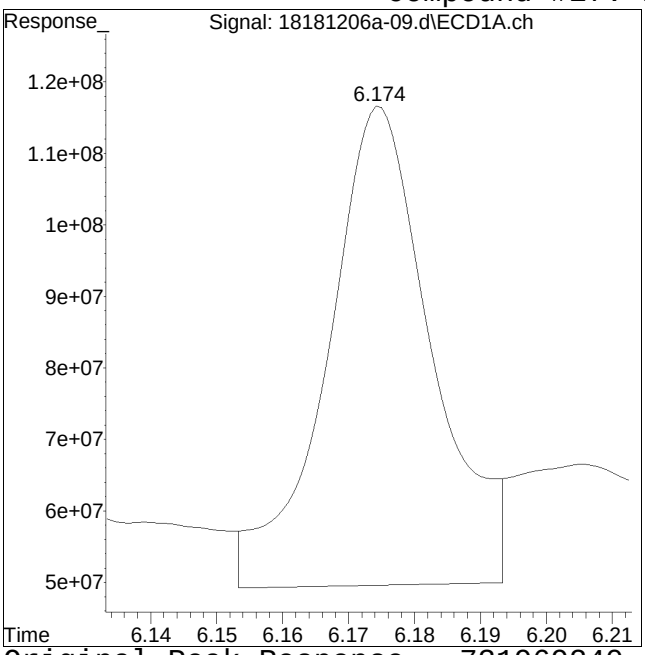
M4 = Poor automated baseline construction.

Manual Integration Report

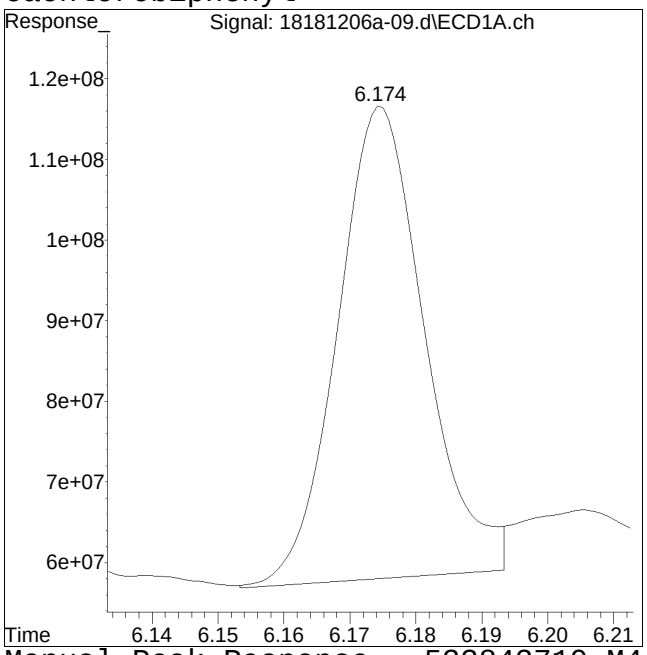
Data Path : I:\Pest18\181206A\
Data File : 18181206a-09.d
Date Inj'd : 12/6/2018 11:11 am
Sample : l1849060-06,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:kb
Instrument : Pest 18
Quant Date : 12/7/2018 1:30 pm

Compound #27: Decachlorobiphenyl



Original Peak Response = 731969240



Manual Peak Response = 533843710 M4

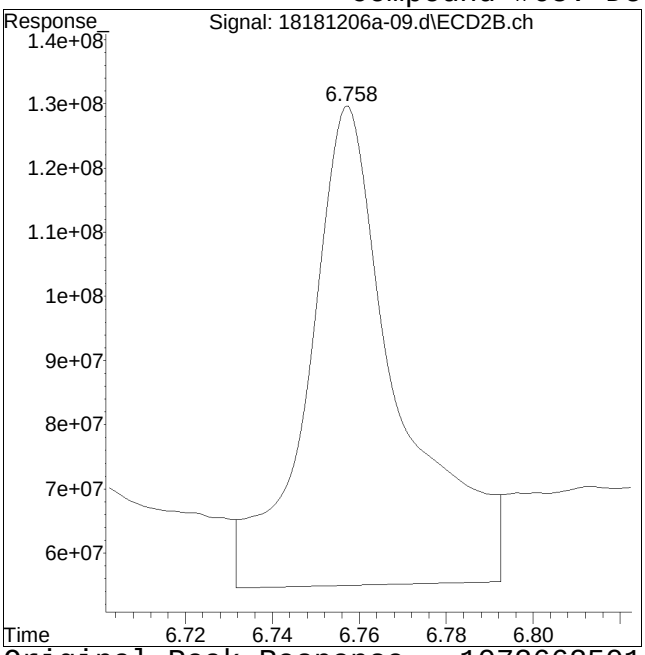
M4 = Poor automated baseline construction.

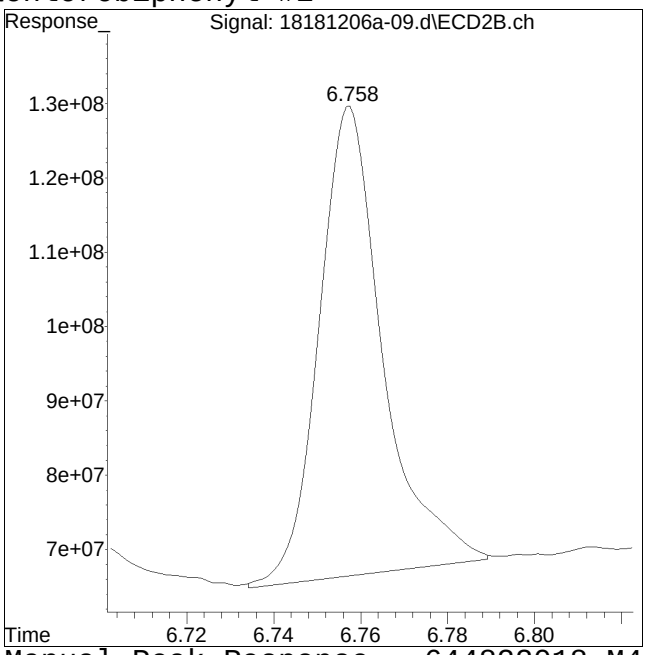
Manual Integration Report

Data Path : I:\Pest18\181206A\
Data File : 18181206a-09.d
Date Inj'd : 12/6/2018 11:11 am
Sample : l1849060-06,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:kb
Instrument : Pest 18
Quant Date : 12/7/2018 1:30 pm

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 1072662501 Manual Peak Response = 644822018 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest18\181205c\
Data File : 18181205c-38.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Dec 2018 2:39 am
Operator : PEST18:bm
Sample : l1849060-03,42e,,
Misc : wg1186046,wg1184846,Ical15103
ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 07 13:50:19 2018
Quant Method : I:\Pest18\181205c\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Thu Dec 06 22:36:19 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest18\181205c\18181205c-02.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.743	1.854	658.3E6	715.5E6	25.000M4	25.000M4
	Standard Area 1 : #1 = 730523937				Recovery =	90.11%	
	Standard Area 1 : #2 = 820983626				Recovery =	87.15%	
28) i	1-br-2-nb_Ch	1.743	1.854	658.3E6	715.5E6	25.000M4	25.000M4
33) i	1-br-2-nb_To	1.743	1.854	658.3E6	715.5E6	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.211	2.437	1328.9E6	1478.3E6	51.605M4	52.604M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =	103.21%	105.21%	
27) s	Decachlorobi	6.178	6.770	661.7E6	842.1E6	28.126M4	37.333M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =	56.25%	74.67%	
	Target Compounds						
3)	Hexachlorobe	2.459	2.777	145.0E6	168.7E6	4.930M4	5.352M4
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D.
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D.

Data Path : I:\Pest18\181205c\
Data File : 18181205c-38.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Dec 2018 2:39 am
Operator : PEST18:bm
Sample : l1849060-03,42e,,
Misc : wg1186046,wg1184846,Ical15103
ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 07 13:50:19 2018
Quant Method : I:\Pest18\181205c\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Thu Dec 06 22:36:19 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest18\181205c\18181205c-02.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	4.519	5.025	159.6E6	139.0E6	4.591	3.682M4
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\Pest18\181205c\
Data File : 18181205c-38.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Dec 2018 2:39 am
Operator : PEST18:bm
Sample : l1849060-03,42e,,
Misc : wg1186046,wg1184846,Ical15103
ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 07 13:50:19 2018
Quant Method : I:\Pest18\181205c\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Thu Dec 06 22:36:19 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest18\181205c\18181205c-02.d
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

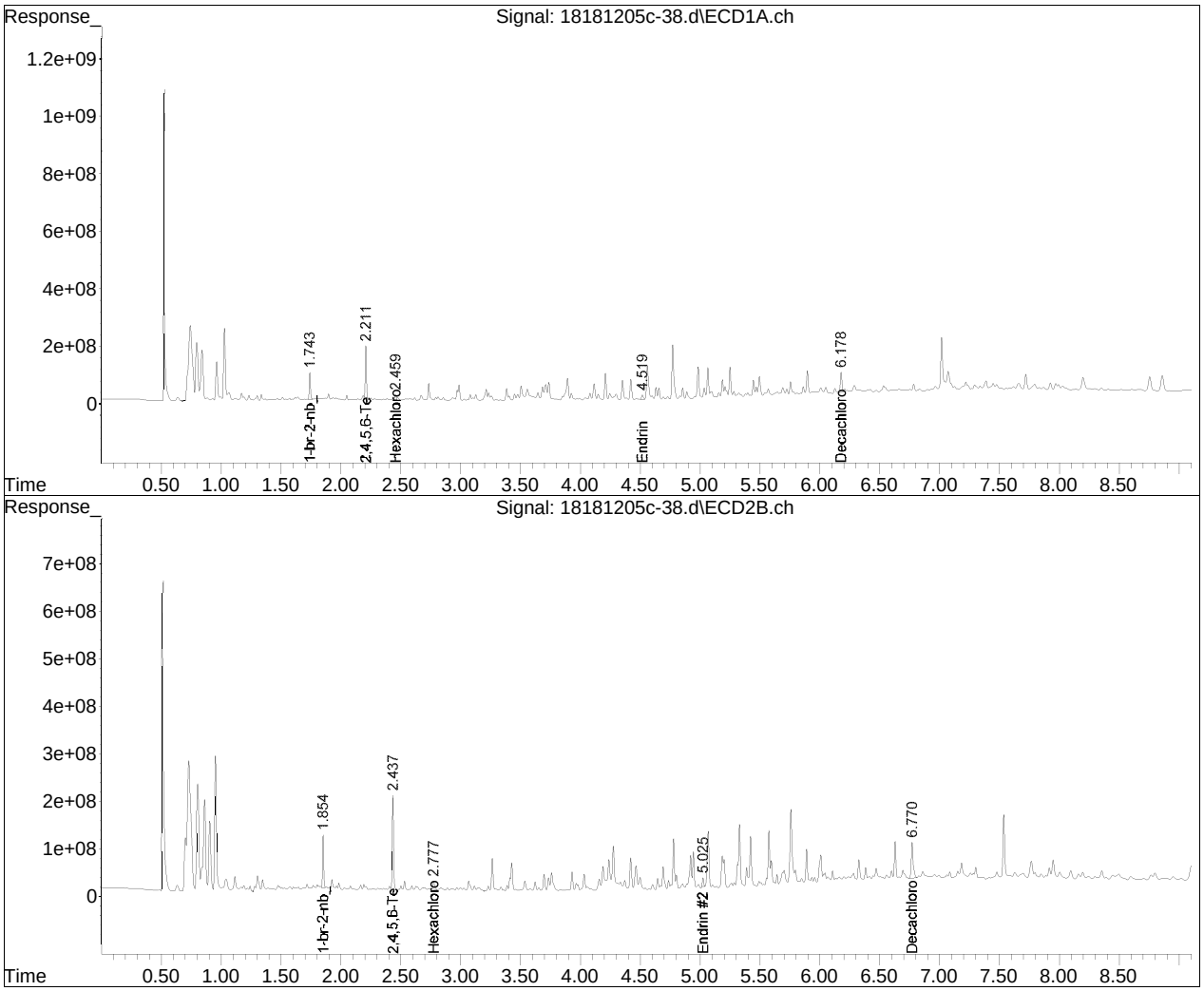
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listedc-02.d••d)

Data Path : I:\Pest18\181205c\
Data File : 18181205c-38.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Dec 2018 2:39 am
Operator : PEST18:bm
Sample : l1849060-03,42e,,
Misc : wg1186046,wg1184846,Ical15103
ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 07 13:50:19 2018
Quant Method : I:\Pest18\181205c\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Thu Dec 06 22:36:19 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

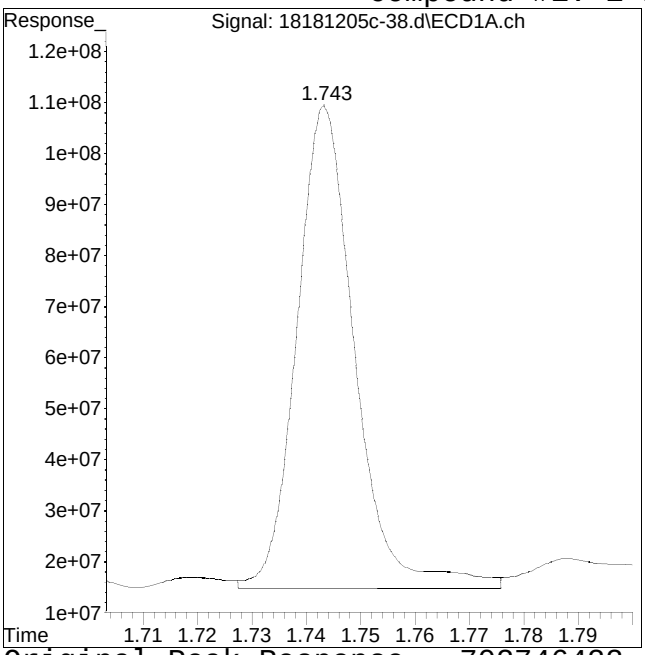


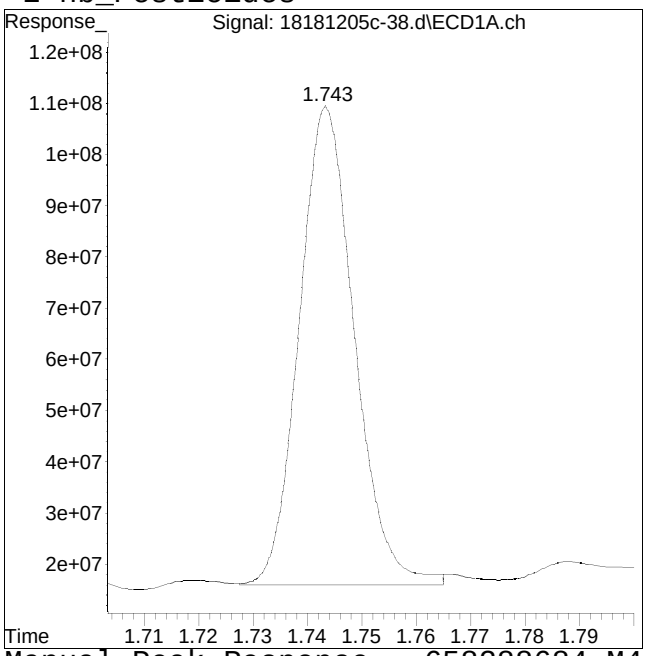
Manual Integration Report

Data Path : I:\Pest18\181205c\
Data File : 18181205c-38.d
Date Inj'd : 12/6/2018 2:39 am
Sample : l1849060-03,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:bm
Instrument : Pest 18
Quant Date : 12/6/2018 10:38 pm

Compound #1: 1-br-2-nb_Pesticides





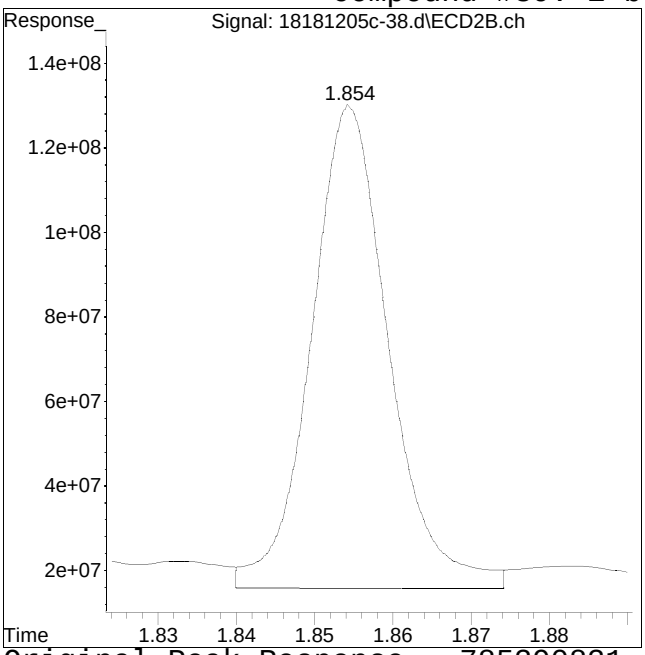
Original Peak Response = 702746422 Manual Peak Response = 658288684 M4
M4 = Poor automated baseline construction.

Manual Integration Report

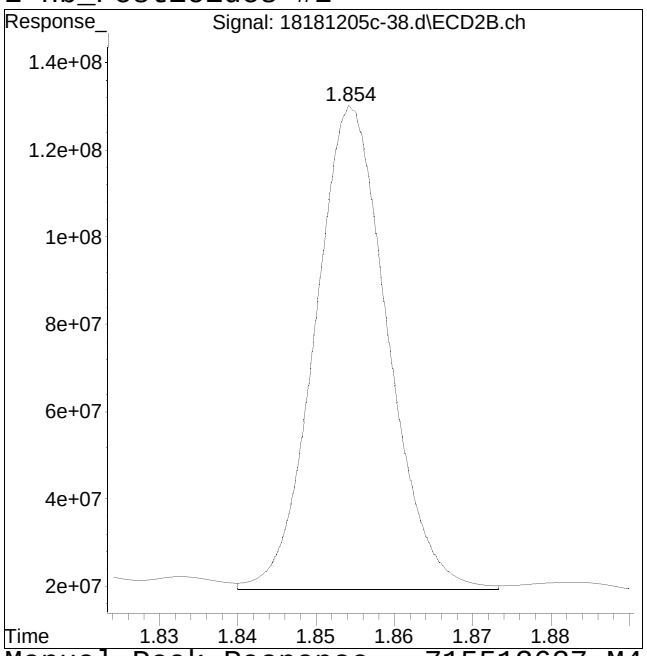
Data Path : I:\Pest18\181205c\
Data File : 18181205c-38.d
Date Inj'd : 12/6/2018 2:39 am
Sample : l1849060-03,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:bm
Instrument : Pest 18
Quant Date : 12/6/2018 10:38 pm

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 785390831



Manual Peak Response = 715513627 M4

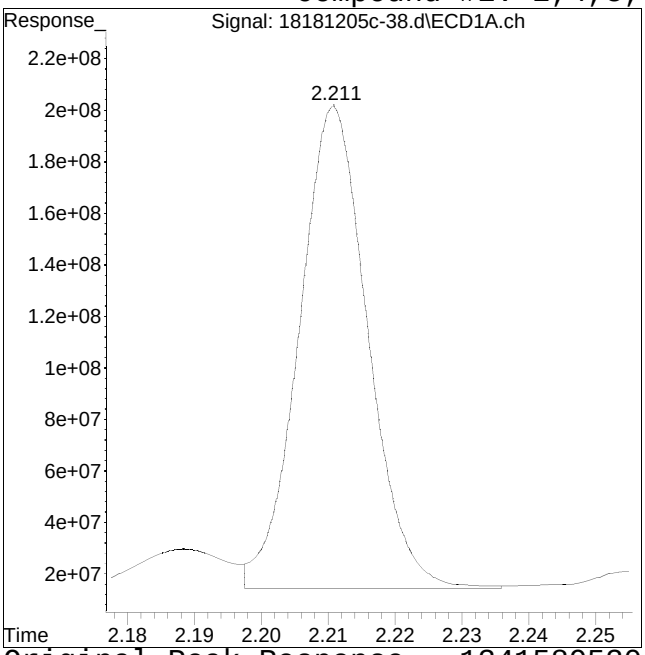
M4 = Poor automated baseline construction.

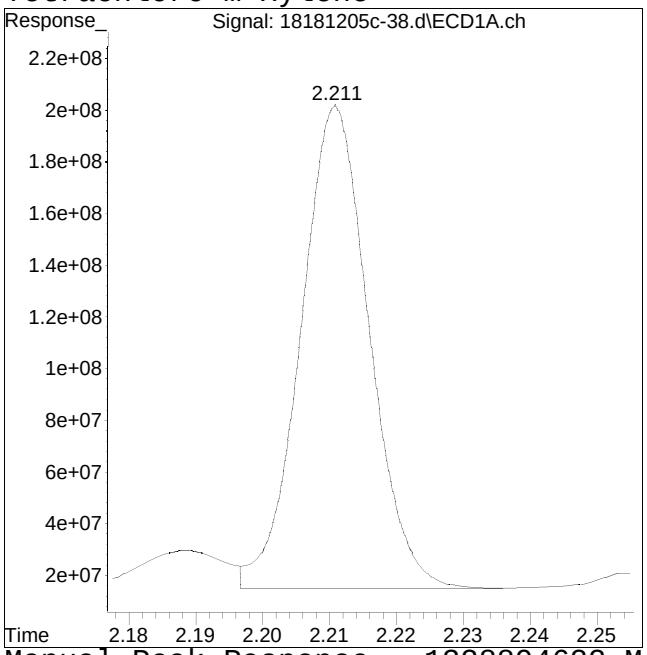
Manual Integration Report

Data Path : I:\Pest18\181205c\
Data File : 18181205c-38.d
Date Inj'd : 12/6/2018 2:39 am
Sample : l1849060-03,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:bm
Instrument : Pest 18
Quant Date : 12/6/2018 10:38 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene





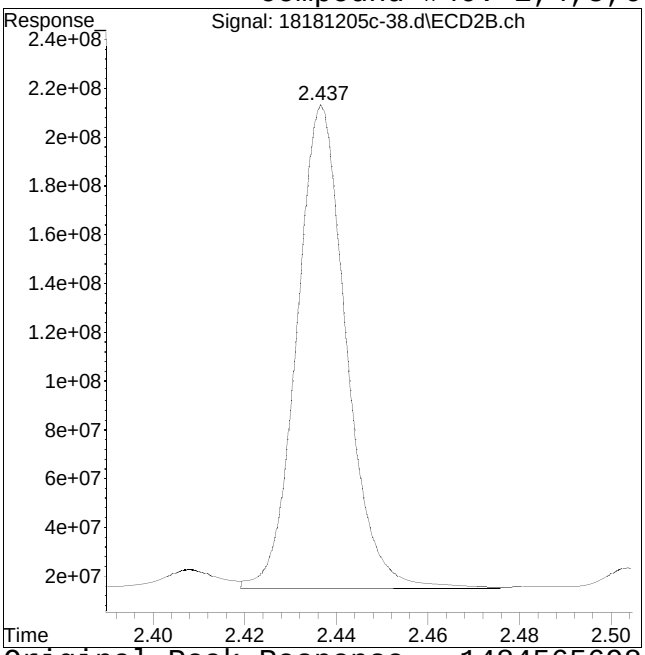
Original Peak Response = 1341589530 Manual Peak Response = 1328894622 M4
M4 = Poor automated baseline construction.

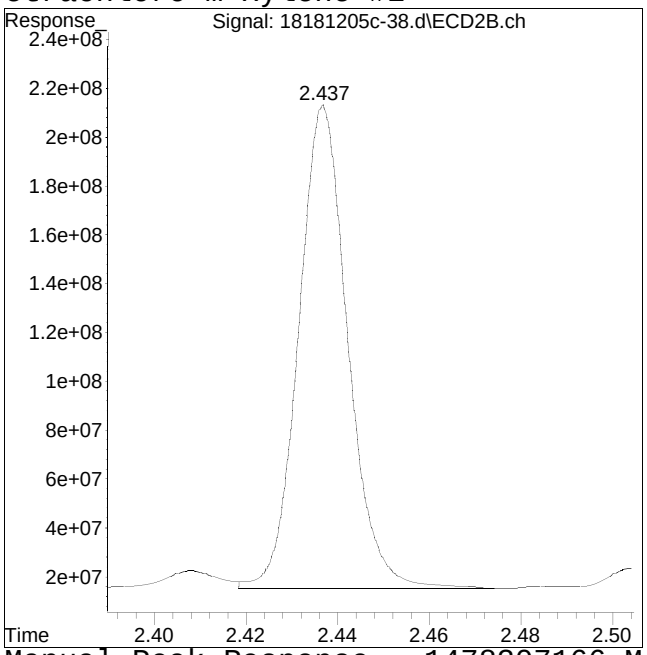
Manual Integration Report

Data Path : I:\Pest18\181205c\
Data File : 18181205c-38.d
Date Inj'd : 12/6/2018 2:39 am
Sample : l1849060-03,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:bm
Instrument : Pest 18
Quant Date : 12/6/2018 10:38 pm

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2





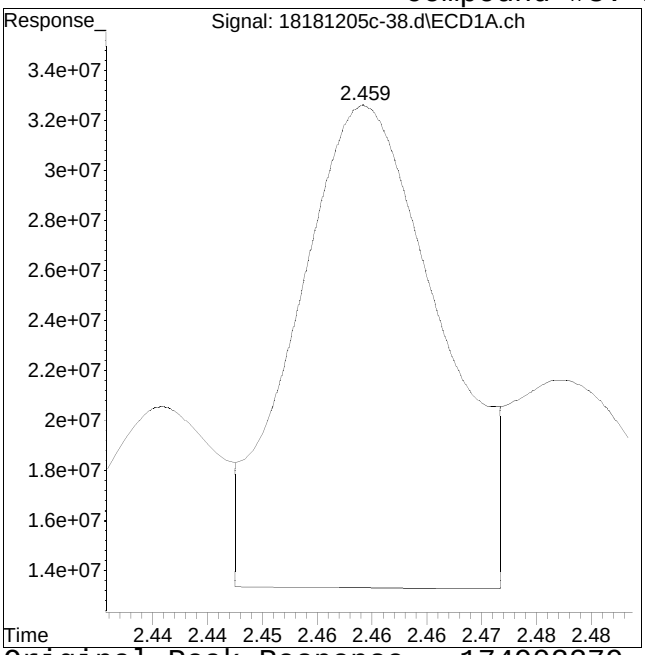
Original Peak Response = 1484565698 Manual Peak Response = 1478307166 M4
M4 = Poor automated baseline construction.

Manual Integration Report

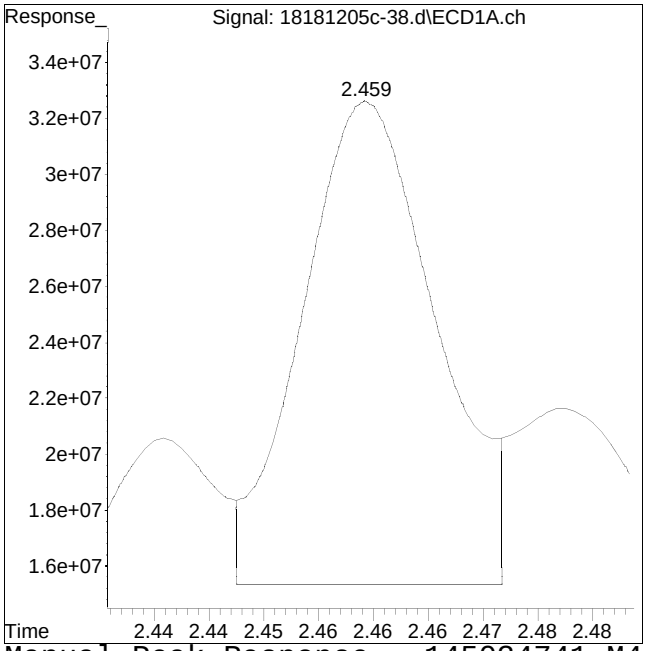
Data Path : I:\Pest18\181205c\
Data File : 18181205c-38.d
Date Inj'd : 12/6/2018 2:39 am
Sample : l1849060-03,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:bm
Instrument : Pest 18
Quant Date : 12/6/2018 10:38 pm

Compound #3: Hexachlorobenzene



Original Peak Response = 174902379



Manual Peak Response = 145034741 M4

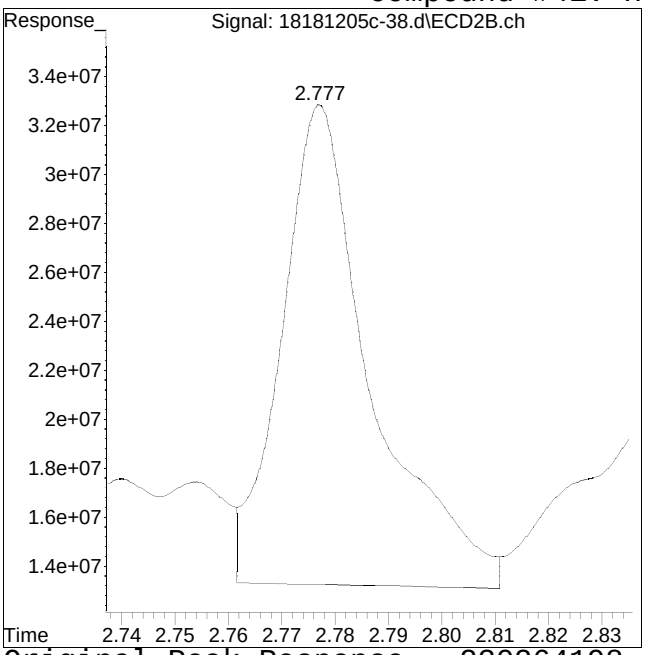
M4 = Poor automated baseline construction.

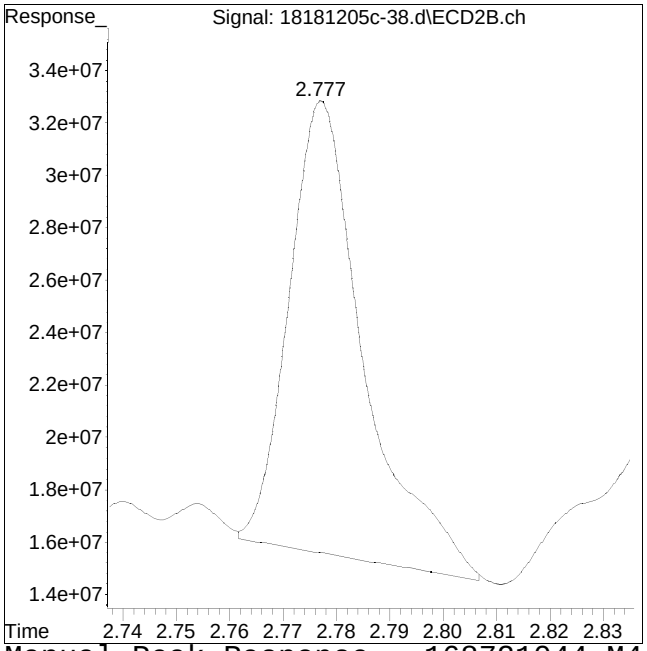
Manual Integration Report

Data Path : I:\Pest18\181205c\
Data File : 18181205c-38.d
Date Inj'd : 12/6/2018 2:39 am
Sample : l1849060-03,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:bm
Instrument : Pest 18
Quant Date : 12/6/2018 10:38 pm

Compound #41: Hexachlorobenzene #2





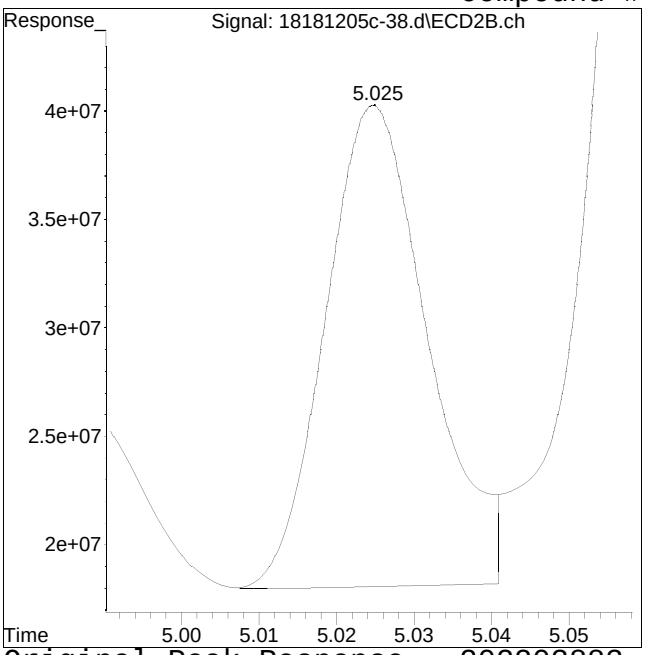
Original Peak Response = 230264198 Manual Peak Response = 168721044 M4
M4 = Poor automated baseline construction.

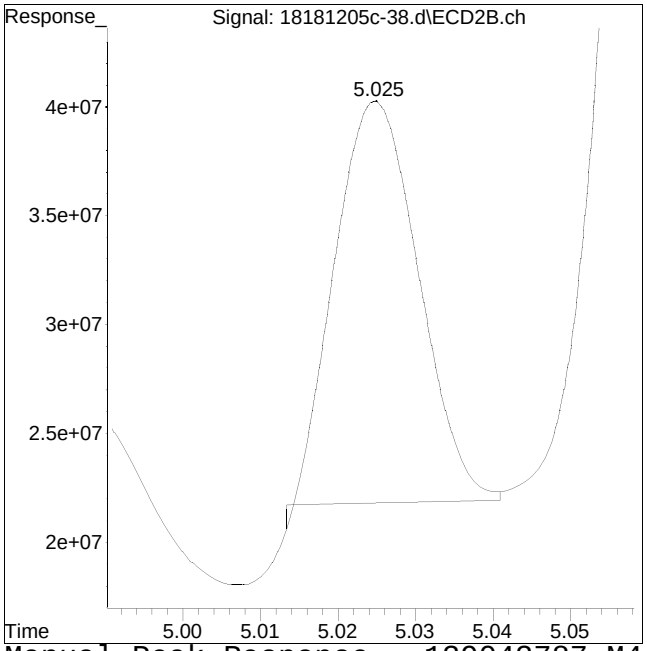
Manual Integration Report

Data Path : I:\Pest18\181205c\
Data File : 18181205c-38.d
Date Inj'd : 12/6/2018 2:39 am
Sample : l1849060-03,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:bm
Instrument : Pest 18
Quant Date : 12/6/2018 10:38 pm

Compound #56: Endrin #2





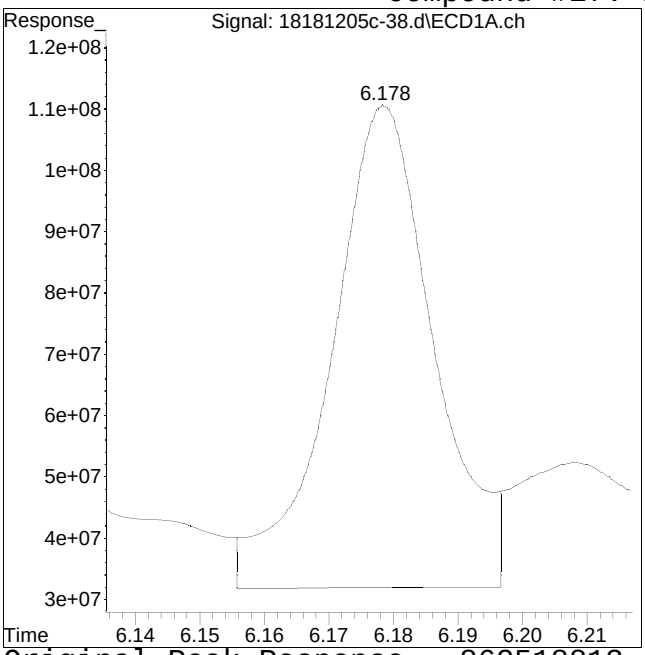
Original Peak Response = 202203883 Manual Peak Response = 139043787 M4
M4 = Poor automated baseline construction.

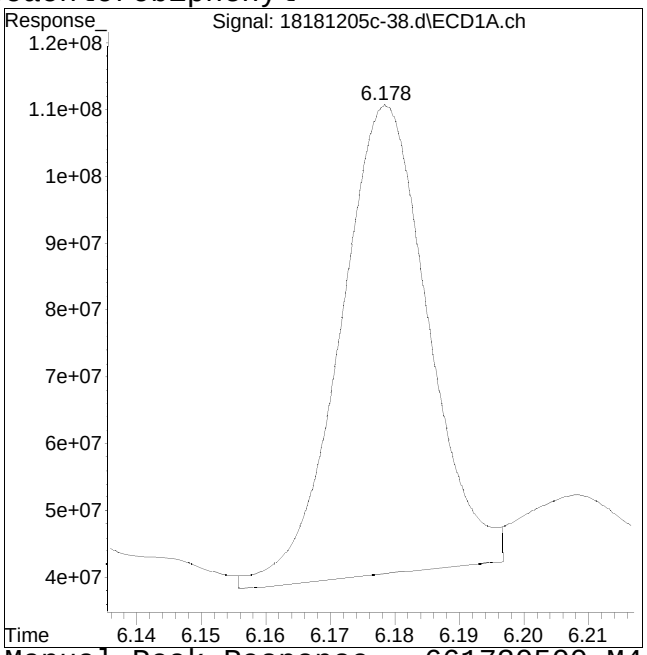
Manual Integration Report

Data Path : I:\Pest18\181205c\
Data File : 18181205c-38.d
Date Inj'd : 12/6/2018 2:39 am
Sample : l1849060-03,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:bm
Instrument : Pest 18
Quant Date : 12/6/2018 10:38 pm

Compound #27: Decachlorobiphenyl





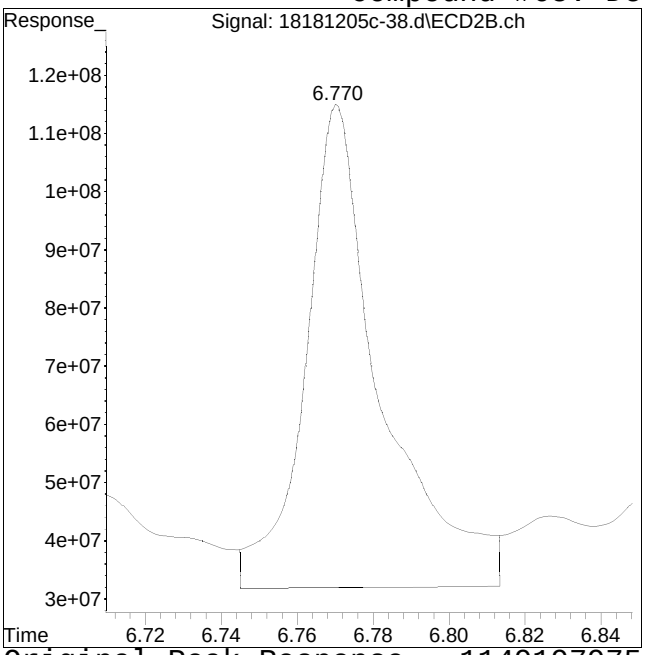
Original Peak Response = 862518813 Manual Peak Response = 661730500 M4
M4 = Poor automated baseline construction.

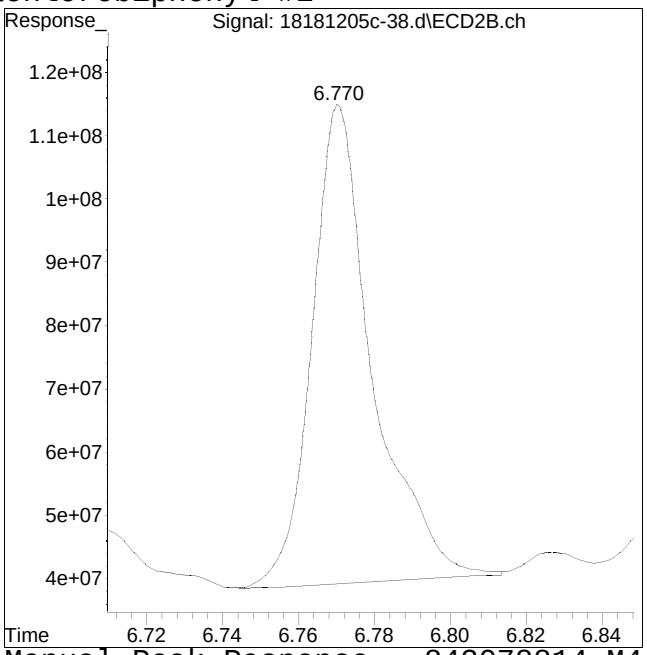
Manual Integration Report

Data Path : I:\Pest18\181205c\
Data File : 18181205c-38.d
Date Inj'd : 12/6/2018 2:39 am
Sample : l1849060-03,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:bm
Instrument : Pest 18
Quant Date : 12/6/2018 10:38 pm

Compound #65: Decachlorobiphenyl #2





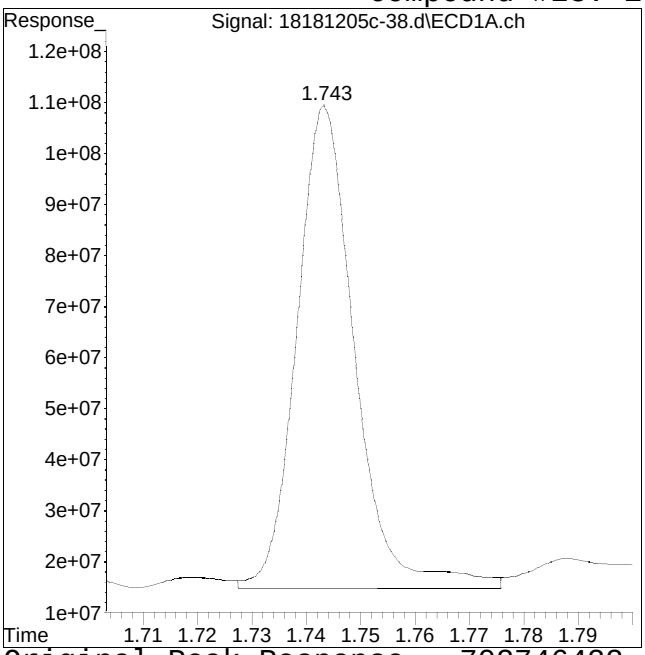
Original Peak Response = 1149197975 Manual Peak Response = 842078814 M4
M4 = Poor automated baseline construction.

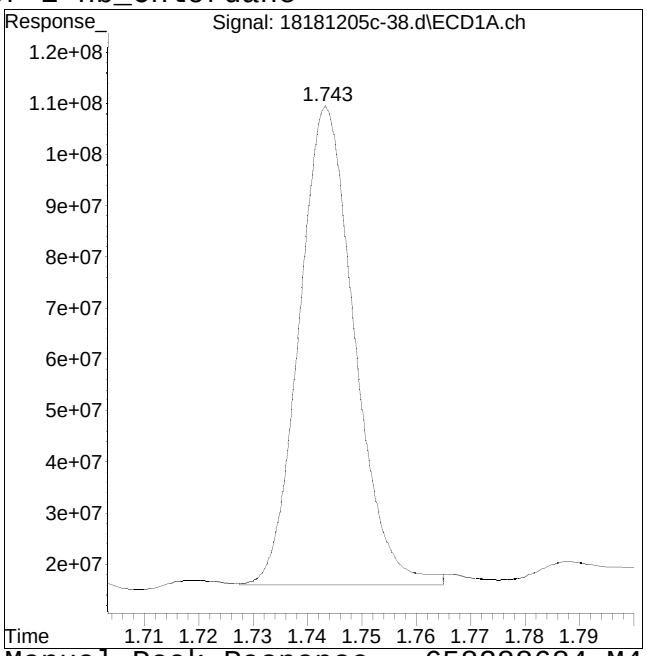
Manual Integration Report

Data Path : I:\Pest18\181205c\
Data File : 18181205c-38.d
Date Inj'd : 12/6/2018 2:39 am
Sample : l1849060-03,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:bm
Instrument : Pest 18
Quant Date : 12/6/2018 10:38 pm

Compound #28: 1-br-2-nb_Chlordane





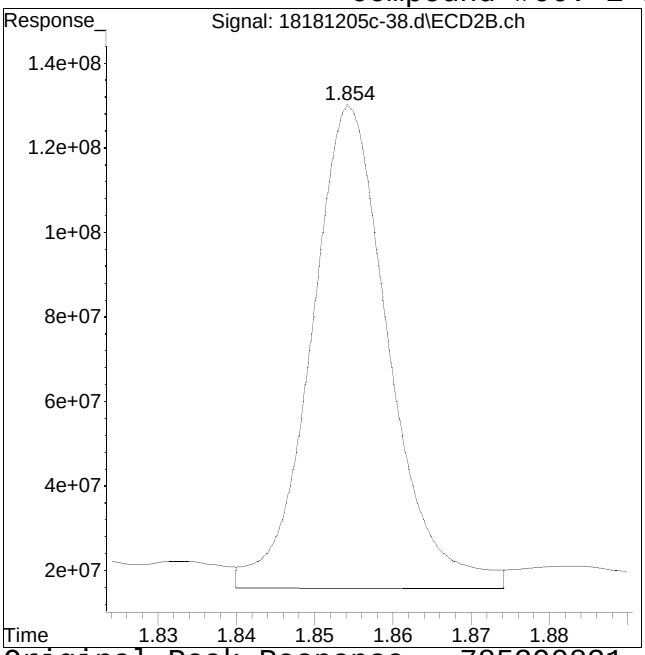
Original Peak Response = 702746422 Manual Peak Response = 658288684 M4
M4 = Poor automated baseline construction.

Manual Integration Report

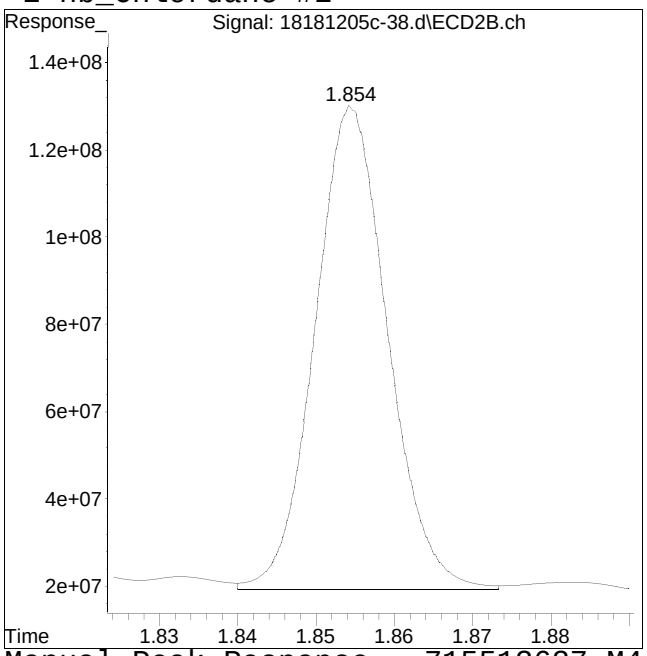
Data Path : I:\Pest18\181205c\
Data File : 18181205c-38.d
Date Inj'd : 12/6/2018 2:39 am
Sample : l1849060-03,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:bm
Instrument : Pest 18
Quant Date : 12/6/2018 10:38 pm

Compound #66: 1-br-2-nb_Chlordane #2



Original Peak Response = 785390831



Manual Peak Response = 715513627 M4

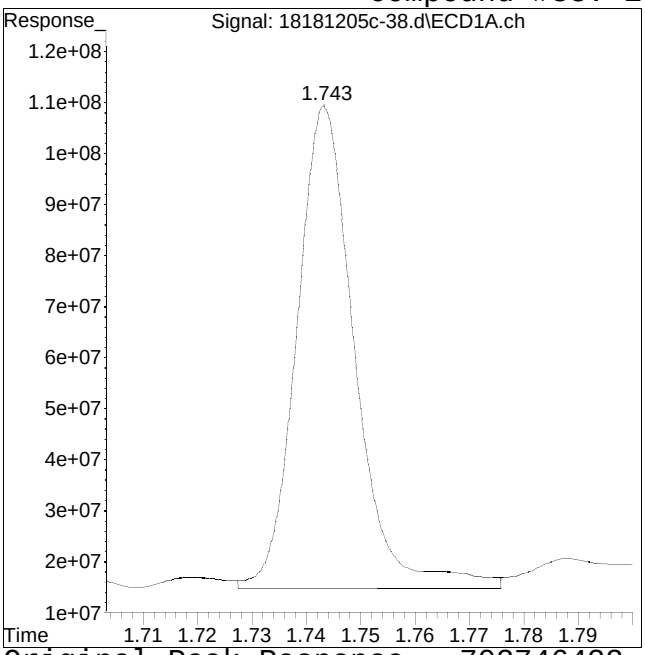
M4 = Poor automated baseline construction.

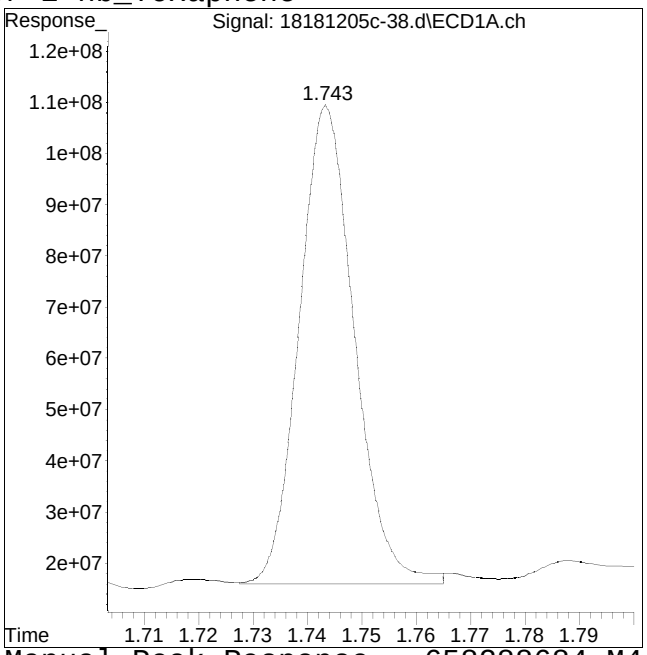
Manual Integration Report

Data Path : I:\Pest18\181205c\
Data File : 18181205c-38.d
Date Inj'd : 12/6/2018 2:39 am
Sample : l1849060-03,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:bm
Instrument : Pest 18
Quant Date : 12/6/2018 10:38 pm

Compound #33: 1-br-2-nb_Toxaphene





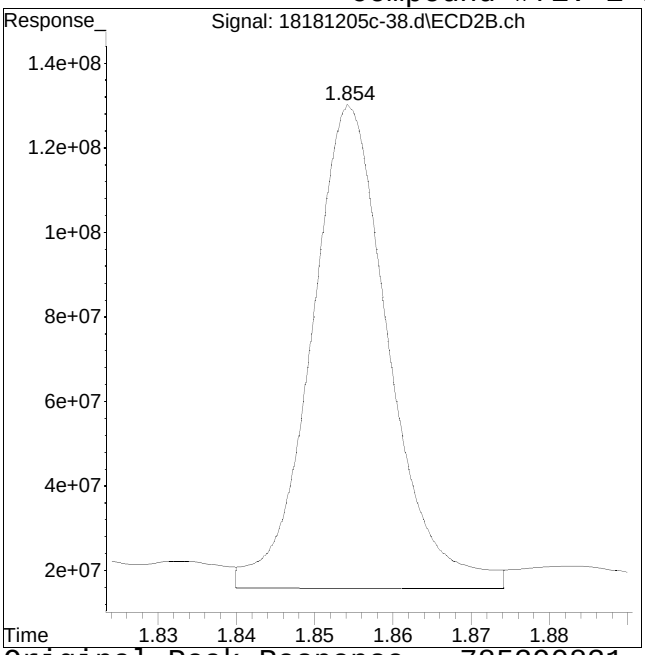
Original Peak Response = 702746422 Manual Peak Response = 658288684 M4
M4 = Poor automated baseline construction.

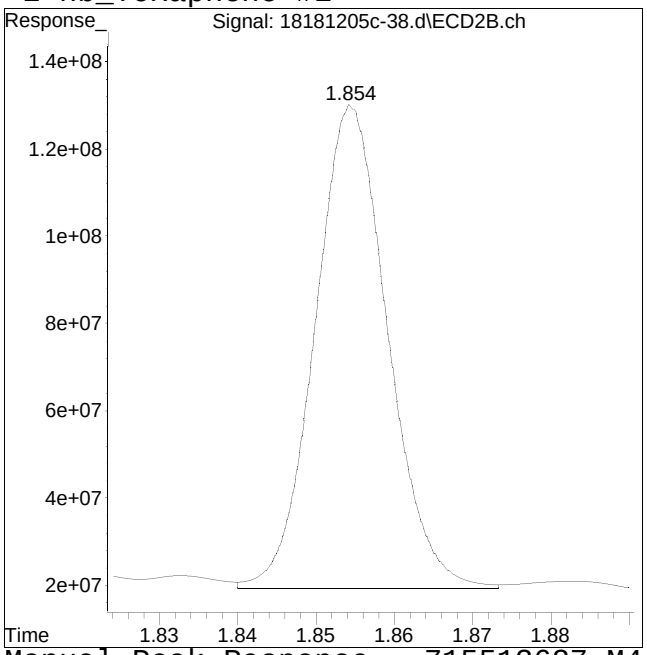
Manual Integration Report

Data Path : I:\Pest18\181205c\
Data File : 18181205c-38.d
Date Inj'd : 12/6/2018 2:39 am
Sample : l1849060-03,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:bm
Instrument : Pest 18
Quant Date : 12/6/2018 10:38 pm

Compound #71: 1-br-2-nb_Toxaphene #2





Original Peak Response = 785390831 Manual Peak Response = 715513627 M4
M4 = Poor automated baseline construction.

Pesticides Standards Data

Initial Calibration

Initial Calibration Summary
Form 6

Client	**: CHA Companies**	**Lab Number**	**: L1849060**
Project Name	**: 700 SMITH BLVD**	**Project Number**	**: 29852.1202.44000**
Instrument ID	**: PEST18**	**Ical Ref**	**: ICAL15103**
Calibration dates	**: 09/19/18 18:11 09/27/18 18:26**		

Calibration Files

1 =18180919i-02.d 2 =18180919i-14.d 3 =18180919i-15.d 4 =18180919i-16.d 5 =18180919i-17.d

6 =18180919i-18.d 7 =18180927i-03.d 8 =18180919i-20.d 9 =18180919i-21.d 10 =18180919i-11.d

		Compound	1	2	3	4	5	6	7	8	9	10	Avg	%RSD
1)	i	1-br-2-nb_Pesticides	----------ISTD----------											
2)	s	2,4,5,6-Tetrachloro-m-xylene	1.230	1.371	1.193	1.175	1.149	1.129	0.845	1.022	0.970	*L		0.995
6)														
3)		Hexachlorobenzene	1.367	1.487	1.250	1.229	1.191	1.139	0.832	1.030	0.970	*L		0.994
5)														
4)		alpha-BHC	1.714	1.939	1.691	1.689	1.677	1.666	1.318	1.669	1.597	*L		0.994
7)														
5)		gamma-BHC (li	1.768	1.605	1.813	1.593	1.569	1.559	1.547	1.190	1.499	1.430	*L	0.994
8)														
6)		beta-BHC	0.844	0.930	0.808	0.786	0.769	0.741	0.535	0.650	0.620	*L		0.995
0)														
7)		delta-BHC	1.604	1.821	1.639	1.589	1.575	1.547	1.209	1.536	1.484	*L		0.994
4)														
8)		Heptachlor	1.746	1.921	1.696	1.666	1.641	1.589	1.183	1.445	1.319	*L		0.994
7)														
9)		Aldrin	1.432	1.593	1.432	1.407	1.391	1.376	1.070	1.318	1.213	*L		0.995
2)														
10)		Alachlor				0.222	0.218	0.214	0.209	0.149	0.168	0.147	0.190	17.79
11)		Chlorpyrifos	0.958	1.056	0.928	0.912	0.897	0.845	0.596	0.691	0.616	*L		0.996
8)														
12)		Heptachlor Ep	1.500	1.646	1.417	1.395	1.367	1.320	0.972	1.192	1.085	*L		0.994
4)														
13)		gamma-Chlorda	1.506	1.680	1.497	1.450	1.438	1.390	1.060	1.342	1.247	*L		0.994
3)														
14)		alpha-Chlorda	1.467	1.645	1.476	1.418	1.414	1.363	1.032	1.286	1.196	*L		0.994
7)														
15)		4,4'-DDE	1.365	1.525	1.353	1.313	1.295	1.274	0.979	1.255	1.174	*L		0.994
1)														
16)		Endosulfan I	1.362	1.528	1.375	1.323	1.325	1.293	0.963	1.192	1.087	*L		0.994
4)														
17)		Dieldrin	1.460	1.575	1.398	1.385	1.359	1.316	1.022	1.277	1.178	*L		0.994
8)														
18)		Endrin	1.441	1.604	1.423	1.394	1.398	1.351	1.039	1.300	1.187	*L		0.994
5)														
19)		4,4'-DDD	1.220	1.338	1.190	1.156	1.158	1.129	0.877	1.115	1.039	*L		0.994
4)														
20)		Endosulfan II	1.345	1.520	1.354	1.316	1.305	1.253	0.958	1.180	1.036	*L		0.993
5)														

Initial Calibration Summary
Form 6

Client	**: CHA Companies**	**Lab Number**	**: L1849060**
Project Name	**: 700 SMITH BLVD**	**Project Number**	**: 29852.1202.44000**
Instrument ID	**: PEST18**	**Ical Ref**	**: ICAL15103**
Calibration dates	**: 09/19/18 18:11 09/27/18 18:26**		

Calibration Files

1 =18180919i-02.d 2 =18180919i-14.d 3 =18180919i-15.d 4 =18180919i-16.d 5 =18180919i-17.d

6 =18180919i-18.d 7 =18180927i-03.d 8 =18180919i-20.d 9 =18180919i-21.d 10 =18180919i-11.d

		Compound	1	2	3	4	5	6	7	8	9	10	Avg	%RSD
21)		4,4'-DDT	1.352	1.501	1.329	1.285	1.283	1.236	0.965	1.226	1.136		*L	0.994
4)														
22)		Endrin Aldehyde	1.255	1.352	1.150	1.129	1.126	1.070	0.822	1.035	0.957		*L	0.994
5)														
23)		Methoxychlor	0.801	0.882	0.781	0.754	0.776	0.711	0.517	0.604	0.545		*L	0.994
2)														
24)		Mirex		1.889	1.150	1.121	1.125	1.045	0.834	0.884	0.816		*L	0.997
2)														
25)		Endosulfan Su	1.275	1.481	1.262	1.264	1.282	1.239	0.953	1.209	1.106		*L	0.994
1)														
26)		Endrin Ketone	1.442	1.595	1.454	1.393	1.373	1.341	1.005	1.241	1.109		*L	0.994
0)														
27)	s	Decachlorobip	1.063	1.280	1.114	1.166	1.036	0.958	0.748	0.954	0.868		*L	0.993
1)														
28)	i	1-br-2-nb_Chlordane	----------ISTD----------											
29)	l1	chlordane-1	0.047	0.041	0.038	0.038	0.036	0.032	0.031	0.030			*L	0.996
0)														
30)	l1	chlordane-2	0.094	0.080	0.076	0.076	0.074	0.064	0.062	0.058			*L	0.994
5)														
31)	l1	chlordane-3	0.173	0.160	0.148	0.155	0.148	0.132	0.132	0.126			*L	0.997
4)														
32)	l1	chlordane-4	0.286	0.250	0.228	0.240	0.229	0.205	0.204	0.192			*L	0.997
1)														
33)	i	1-br-2-nb_Toxaphene	----------ISTD----------											
34)	l2	toxaphene-1						0.056					*L	1.000
0)														
35)	l2	toxaphene-2						0.049					*L	1.000
0)														
36)	l2	toxaphene-3						0.045					*L	1.000
0)														
37)	l2	toxaphene-5						0.044					*L	1.000
0)														

Initial Calibration Summary
Form 6

Client	**: CHA Companies**	**Lab Number**	**: L1849060**
Project Name	**: 700 SMITH BLVD**	**Project Number**	**: 29852.1202.44000**
Instrument ID	**: PEST18**	**Ical Ref**	**: ICAL15103**
Calibration dates	**: 09/19/18 18:11 09/27/18 18:26**		

Signal #2 Calibration Files

1 =18180919i-02.d 2 =18180919i-14.d 3 =18180919i-15.d 4 =18180919i-16.d 5 =18180919i-17.d
6 =18180919i-18.d 7 =18180927i-03.d 8 =18180919i-20.d 9 =18180919i-21.d 10 =18180919i-11.d

		Compound	1	2	3	4	5	6	7	8	9	10	Avg	%RSD
1)	i	1-br-2-nb_Pesticides	----------ISTD----------											
2)	s	2,4,5,6-Tetra	1.247	1.376	1.189	1.182	1.164	1.133	0.845	1.023	0.976	*L		0.995
5)														
3)		Hexachloroben	1.361	1.499	1.231	1.213	1.192	1.136	0.823	1.028	0.970	*L		0.994
2)														
4)		alpha-BHC	1.774	1.990	1.743	1.722	1.716	1.713	1.326	1.690	1.635	*L		0.994
2)														
5)		gamma-BHC (li	.845	1.677	1.866	1.628	1.596	1.588	1.571	1.199	1.530	1.461	*L	0.994
3)														
6)		beta-BHC	0.894	0.955	0.831	0.807	0.798	0.765	0.552	0.687	0.657	*L		0.994
4)														
7)		delta-BHC	1.672	1.884	1.638	1.598	1.602	1.586	1.232	1.584	1.525	*L		0.993
9)														
8)		Heptachlor	1.807	2.054	1.753	1.728	1.699	1.638	1.200	1.491	1.369	*L		0.994
2)														
9)		Aldrin	1.521	1.698	1.486	1.446	1.455	1.434	1.073	1.350	1.252	*L		0.994
4)														
10)		Alachlor			0.207	0.202	0.204	0.193	0.134	0.155	0.137	0.176		18.55
11)		Chlorpyrifos	1.010	1.087	0.940	0.915	0.915	0.862	0.604	0.715	0.644	*L		0.997
0)														
12)		Heptachlor Ep	1.483	1.615	1.428	1.362	1.370	1.321	0.966	1.205	1.116	*L		0.994
3)														
13)		gamma-Chlorda	1.690	1.773	1.558	1.487	1.497	1.440	1.076	1.356	1.280	*L		0.994
4)														
14)		alpha-Chlorda	1.475	1.636	1.397	1.371	1.397	1.338	0.998	1.275	1.198	*L		0.993
9)														
15)		4,4'-DDE	1.403	1.523	1.355	1.302	1.297	1.291	0.987	1.276	1.214	*L		0.993
8)														
16)		Endosulfan I	1.363	1.553	1.372	1.307	1.322	1.294	0.955	1.196	1.107	*L		0.994
3)														
17)		Dieldrin	1.387	1.543	1.378	1.323	1.333	1.317	0.996	1.261	1.192	*L		0.994
4)														
18)		Endrin	1.426	1.604	1.394	1.345	1.347	1.327	1.000	1.254	1.163	*L		0.994
6)														
19)		4,4'-DDD	1.200	1.346	1.190	1.128	1.137	1.139	0.854	1.103	1.064	*L		0.993
6)														
20)		Endosulfan II	1.405	1.502	1.335	1.286	1.276	1.246	0.928	1.152	1.044	*L		0.994
3)														

Initial Calibration Summary
Form 6

Client	**: CHA Companies**	**Lab Number**	**: L1849060**
Project Name	**: 700 SMITH BLVD**	**Project Number**	**: 29852.1202.44000**
Instrument ID	**: PEST18**	**Ical Ref**	**: ICAL15103**
Calibration dates	**: 09/19/18 18:11 09/27/18 18:26**		

Signal #2 Calibration Files

1 =18180919i-02.d 2 =18180919i-14.d 3 =18180919i-15.d 4 =18180919i-16.d 5 =18180919i-17.d

6 =18180919i-18.d 7 =18180927i-03.d 8 =18180919i-20.d 9 =18180919i-21.d 10 =18180919i-11.d

		Compound	1	2	3	4	5	6	7	8	9	10	Avg	%RSD
21)		4,4'-DDT	1.377	1.489	1.309	1.243	1.235	1.220	0.940	1.181	1.115		*L	0.994
8)														
22)		Endrin Aldehyde	1.182	1.270	1.122	1.076	1.076	1.030	0.778	0.991	0.949		*L	0.994
1)														
23)		Methoxychlor	0.759	0.824	0.719	0.698	0.683	0.654	0.466	0.574	0.538		*L	0.994
3)														
24)		Mirex		1.705	1.052	1.016	1.012	0.906	0.725	0.787	0.740		*L	0.999
0)														
25)		Endosulfan Su	1.369	1.464	1.307	1.266	1.257	1.228	0.925	1.178	1.102		*L	0.994
2)														
26)		Endrin Ketone	1.338	1.464	1.311	1.268	1.252	1.184	0.928	1.162	1.066		*L	0.994
6)														
27)	s	Decachlorobip	1.015	1.153	0.976	0.941	0.980	0.917	0.661	0.812	0.783		*L	0.994
5)														
28)	i	1-br-2-nb_Chlordane	----------ISTD----------											
29)	l1	chlordane-1	0.044	0.042	0.039	0.040	0.038	0.033	0.032	0.031			*L	0.995
8)														
30)	l1	chlordane-2	0.090	0.085	0.080	0.082	0.078	0.068	0.066	0.061			*L	0.993
9)														
31)	l1	chlordane-3	0.149	0.133	0.124	0.129	0.129	0.114	0.112	0.106			*L	0.996
9)														
32)	l1	chlordane-4	0.121	0.115	0.109	0.114	0.113	0.100	0.097	0.090			*L	0.995
3)														
33)	i	1-br-2-nb_Toxaphene	----------ISTD----------											
34)	l2	toxaphene-1						0.025					*L	1.000
0)														
35)	l2	toxaphene-2						0.036					*L	1.000
0)														
36)	l2	toxaphene-3						0.066					*L	1.000
0)														
37)	l2	toxaphene-5						0.041					*L	1.000
0)														

Response Factor Report Pest 18

Method Path : I:\Pest18\180919ical\
Method File : pest18_09_19_18_.m
Title : pest
Last Update : Fri Sep 28 15:50:13 2018
Response Via : Initial Calibration

Calibration Files
1 =18180919i-02.d 2 =18180919i-14.d 3 =18180919i-15.d 4 =18180919i-16.d 5 =18180919i-17.d
6 =18180919i-18.d 7 =18180927i-03.d 8 =18180919i-20.d 9 =18180919i-21.d 10 =18180919i-11.d

		Compound	1	2	3	4	5	6	7	8	9	10	Avg		%RSD
1)	i	1-br-2-nb_Pesticides	----------ISTD----------												
2)	s	2,4,5,6-Tetra...		1.230	1.371	1.193	1.175	1.149	1.129	0.845	1.022	0.970	*L		0.995
3)		Hexachloroben...		1.367	1.487	1.250	1.229	1.191	1.139	0.832	1.030	0.970	*L		0.994
4)		alpha-BHC		1.714	1.939	1.691	1.689	1.677	1.666	1.318	1.669	1.597	*L		0.994
5)		gamma-BHC (li...	1.768	1.605	1.813	1.593	1.569	1.559	1.547	1.190	1.499	1.430	*L		0.994
6)		beta-BHC		0.844	0.930	0.808	0.786	0.769	0.741	0.535	0.650	0.620	*L		0.995
7)		delta-BHC		1.604	1.821	1.639	1.589	1.575	1.547	1.209	1.536	1.484	*L		0.994
8)		Heptachlor		1.746	1.921	1.696	1.666	1.641	1.589	1.183	1.445	1.319	*L		0.994
9)		Aldrin		1.432	1.593	1.432	1.407	1.391	1.376	1.070	1.318	1.213	*L		0.995
10)		Alachlor				0.222	0.218	0.214	0.209	0.149	0.168	0.147	0.190		17.79
11)		Chlorpyrifos		0.958	1.056	0.928	0.912	0.897	0.845	0.596	0.691	0.616	*L		0.996
12)		Heptachlor Ep...		1.500	1.646	1.417	1.395	1.367	1.320	0.972	1.192	1.085	*L		0.994
13)		gamma-Chlorda...		1.506	1.680	1.497	1.450	1.438	1.390	1.060	1.342	1.247	*L		0.994
14)		alpha-Chlorda...		1.467	1.645	1.476	1.418	1.414	1.363	1.032	1.286	1.196	*L		0.994
15)		4,4'-DDE		1.365	1.525	1.353	1.313	1.295	1.274	0.979	1.255	1.174	*L		0.994
16)		Endosulfan I		1.362	1.528	1.375	1.323	1.325	1.293	0.963	1.192	1.087	*L		0.994

Response Factor Report Pest 18

Method Path : I:\Pest18\180919ical\
Method File : pest18_09_19_18_.m
Title : pest
Last Update : Fri Sep 28 15:50:13 2018
Response Via : Initial Calibration

Calibration Files
1 =18180919i-02.d 2 =18180919i-14.d 3 =18180919i-15.d 4 =18180919i-16.d 5 =18180919i-17.d
6 =18180919i-18.d 7 =18180927i-03.d 8 =18180919i-20.d 9 =18180919i-21.d 10 =18180919i-11.d

		Compound	1	2	3	4	5	6	7	8	9	10	Avg		%RSD
17)		Dieldrin		1.460	1.575	1.398	1.385	1.359	1.316	1.022	1.277	1.178	*L		0.994
18)		Endrin		1.441	1.604	1.423	1.394	1.398	1.351	1.039	1.300	1.187	*L		0.994
19)		4,4'-DDD		1.220	1.338	1.190	1.156	1.158	1.129	0.877	1.115	1.039	*L		0.994
20)		Endosulfan II		1.345	1.520	1.354	1.316	1.305	1.253	0.958	1.180	1.036	*L		0.993
21)		4,4'-DDT		1.352	1.501	1.329	1.285	1.283	1.236	0.965	1.226	1.136	*L		0.994
22)		Endrin Aldehyde		1.255	1.352	1.150	1.129	1.126	1.070	0.822	1.035	0.957	*L		0.994
23)		Methoxychlor		0.801	0.882	0.781	0.754	0.776	0.711	0.517	0.604	0.545	*L		0.994
24)		Mirex			1.889	1.150	1.121	1.125	1.045	0.834	0.884	0.816	*L		0.997
25)		Endosulfan Su...		1.275	1.481	1.262	1.264	1.282	1.239	0.953	1.209	1.106	*L		0.994
26)		Endrin Ketone		1.442	1.595	1.454	1.393	1.373	1.341	1.005	1.241	1.109	*L		0.994
27)	s	Decachlorobip...		1.063	1.280	1.114	1.166	1.036	0.958	0.748	0.954	0.868	*L		0.993
28)	i	1-br-2-nb_Chlordane	----------ISTD----------												
29)	l1	chlordane-1		0.047	0.041	0.038	0.038	0.036	0.032	0.031	0.030		*L		0.996
30)	l1	chlordane-2		0.094	0.080	0.076	0.076	0.074	0.064	0.062	0.058		*L		0.994
31)	l1	chlordane-3		0.173	0.160	0.148	0.155	0.148	0.132	0.132	0.126		*L		0.997
32)	l1	chlordane-4		0.286	0.250	0.228	0.240	0.229	0.205	0.204	0.192		*L		0.997

Method Path : I:\Pest18\180919ical\
Method File : pest18_09_19_18_.m
Title : pest
Last Update : Fri Sep 28 15:50:13 2018
Response Via : Initial Calibration

Calibration Files
1 =18180919i-02.d 2 =18180919i-14.d 3 =18180919i-15.d 4 =18180919i-16.d 5 =18180919i-17.d
6 =18180919i-18.d 7 =18180927i-03.d 8 =18180919i-20.d 9 =18180919i-21.d 10 =18180919i-11.d

		Compound	1	2	3	4	5	6	7	8	9	10	Avg		%RSD
33)	i	1-br-2-nb_Toxaphene	----------ISTD----------												
34)	l2	toxaphene-1							0.056					*L	1.0000
35)	l2	toxaphene-2							0.049					*L	1.0000
36)	l2	toxaphene-3							0.045					*L	1.0000
37)	l2	toxaphene-5							0.044					*L	1.0000

Signal #2 Calibration Files
1 =18180919i-02.d 2 =18180919i-14.d 3 =18180919i-15.d 4 =18180919i-16.d 5 =18180919i-17.d
6 =18180919i-18.d 7 =18180927i-03.d 8 =18180919i-20.d 9 =18180919i-21.d 10 =18180919i-11.d

		Compound	1	2	3	4	5	6	7	8	9	10	Avg		%RSD
1)	i	1-br-2-nb_Pesticides	----------ISTD----------												
2)	s	2,4,5,6-Tetra...		1.247	1.376	1.189	1.182	1.164	1.133	0.845	1.023	0.976		*L	0.9955
3)		Hexachloroben...		1.361	1.499	1.231	1.213	1.192	1.136	0.823	1.028	0.970		*L	0.9942
4)		alpha-BHC		1.774	1.990	1.743	1.722	1.716	1.713	1.326	1.690	1.635		*L	0.9942
5)		gamma-BHC (li...	1.845	1.677	1.866	1.628	1.596	1.588	1.571	1.199	1.530	1.461		*L	0.9943
6)		beta-BHC		0.894	0.955	0.831	0.807	0.798	0.765	0.552	0.687	0.657		*L	0.9944
7)		delta-BHC		1.672	1.884	1.638	1.598	1.602	1.586	1.232	1.584	1.525		*L	0.9939
8)		Heptachlor		1.807	2.054	1.753	1.728	1.699	1.638	1.200	1.491	1.369		*L	0.9942
9)		Aldrin		1.521	1.698	1.486	1.446	1.455	1.434	1.073	1.350	1.252		*L	0.9944

Response Factor Report Pest 18

Method Path : I:\Pest18\180919ical\
Method File : pest18_09_19_18_.m
Title : pest
Last Update : Fri Sep 28 15:50:13 2018
Response Via : Initial Calibration

Calibration Files
1 =18180919i-02.d 2 =18180919i-14.d 3 =18180919i-15.d 4 =18180919i-16.d 5 =18180919i-17.d
6 =18180919i-18.d 7 =18180927i-03.d 8 =18180919i-20.d 9 =18180919i-21.d 10 =18180919i-11.d

	Compound	1	2	3	4	5	6	7	8	9	10	Avg		%RSD
10)	Alachlor				0.207	0.202	0.204	0.193	0.134	0.155	0.137	0.176		18.55
11)	Chlorpyrifos	1.010	1.087	0.940	0.915	0.915	0.862	0.604	0.715	0.644		*L		0.997
12)	Heptachlor Ep...	1.483	1.615	1.428	1.362	1.370	1.321	0.966	1.205	1.116		*L		0.994
13)	gamma-Chlorda...	1.690	1.773	1.558	1.487	1.497	1.440	1.076	1.356	1.280		*L		0.994
14)	alpha-Chlorda...	1.475	1.636	1.397	1.371	1.397	1.338	0.998	1.275	1.198		*L		0.993
15)	4,4'-DDE	1.403	1.523	1.355	1.302	1.297	1.291	0.987	1.276	1.214		*L		0.993
16)	Endosulfan I	1.363	1.553	1.372	1.307	1.322	1.294	0.955	1.196	1.107		*L		0.994
17)	Dieldrin	1.387	1.543	1.378	1.323	1.333	1.317	0.996	1.261	1.192		*L		0.994
18)	Endrin	1.426	1.604	1.394	1.345	1.347	1.327	1.000	1.254	1.163		*L		0.994
19)	4,4'-DDD	1.200	1.346	1.190	1.128	1.137	1.139	0.854	1.103	1.064		*L		0.993
20)	Endosulfan II	1.405	1.502	1.335	1.286	1.276	1.246	0.928	1.152	1.044		*L		0.994
21)	4,4'-DDT	1.377	1.489	1.309	1.243	1.235	1.220	0.940	1.181	1.115		*L		0.994
22)	Endrin Aldehyde	1.182	1.270	1.122	1.076	1.076	1.030	0.778	0.991	0.949		*L		0.994
23)	Methoxychlor	0.759	0.824	0.719	0.698	0.683	0.654	0.466	0.574	0.538		*L		0.994
24)	Mirex		1.705	1.052	1.016	1.012	0.906	0.725	0.787	0.740		*L		0.999
25)	Endosulfan Su...	1.369	1.464	1.307	1.266	1.257	1.228	0.925	1.178	1.102		*L		0.994

Method Path : I:\Pest18\180919ical\
Method File : pest18_09_19_18_.m
Title : pest
Last Update : Fri Sep 28 15:50:13 2018
Response Via : Initial Calibration

Calibration Files
1 =18180919i-02.d 2 =18180919i-14.d 3 =18180919i-15.d 4 =18180919i-16.d 5 =18180919i-17.d
6 =18180919i-18.d 7 =18180927i-03.d 8 =18180919i-20.d 9 =18180919i-21.d 10 =18180919i-11.d

		Compound	1	2	3	4	5	6	7	8	9	10	Avg		%RSD
26)		Endrin Ketone		1.338	1.464	1.311	1.268	1.252	1.184	0.928	1.162	1.066	*L		0.994
6															
27)	s	Decachlorobip...		1.015	1.153	0.976	0.941	0.980	0.917	0.661	0.812	0.783	*L		0.994
5															
28)	i	1-br-2-nb_Chlordane	----------ISTD----------												
29)	l1	chlordane-1		0.044	0.042	0.039	0.040	0.038	0.033	0.032	0.031		*L		0.995
8															
30)	l1	chlordane-2		0.090	0.085	0.080	0.082	0.078	0.068	0.066	0.061		*L		0.993
9															
31)	l1	chlordane-3		0.149	0.133	0.124	0.129	0.129	0.114	0.112	0.106		*L		0.996
9															
32)	l1	chlordane-4		0.121	0.115	0.109	0.114	0.113	0.100	0.097	0.090		*L		0.995
3															
33)	i	1-br-2-nb_Toxaphene	----------ISTD----------												
34)	l2	toxaphene-1							0.025				*L		1.000
0															
35)	l2	toxaphene-2							0.036				*L		1.000
0															
36)	l2	toxaphene-3							0.066				*L		1.000
0															
37)	l2	toxaphene-5							0.041				*L		1.000
0															

(#) = Out of Range ### Number of calibration levels exceeded format ###

Quantitation Report (QT Reviewed)

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-01.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Sep 2018 5:58 pm
Operator : PEST18:jw
Sample : pem1818091901ical,42ee,,deg pp8838 (Sig #1); deg pp8838 (Sig #2)
Misc : wg1162772,ical
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 16:35:44 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Thu Sep 27 16:34:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : 4_DEG - deg check

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb...	1.906f	2.023f	486.9E6	571.3E6	25.000	25.000M4
	System Monitoring Compounds						
	Target Compounds						
15)	4,4'-DDE	4.349f	4.881f	10004773	12261676	0.395M2	0.409M2
18)	Endrin	4.739f	5.239f	1354.5E6	1460.2E6	50.864M2	47.630M2
19)	4,4'-DDD	4.796f	5.306f	15397027	13932346	0.681M2	0.531M2
21)	4,4'-DDT	5.000f	5.529f	2371.6E6	2023.4E6	94.790M2	70.251M2
#							
22)	Endrin Al...	5.202f	5.632f	9440557	18257464	0.434M2	0.741M2
#							
26)	Endrin Ke...	5.701f	6.205f	19087166	49490253	0.726M2	1.747M2
#							
	Sum chlordane-1			0	0	N.D.	N.D.
	Average chlordane-1					0.000	0.000
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000

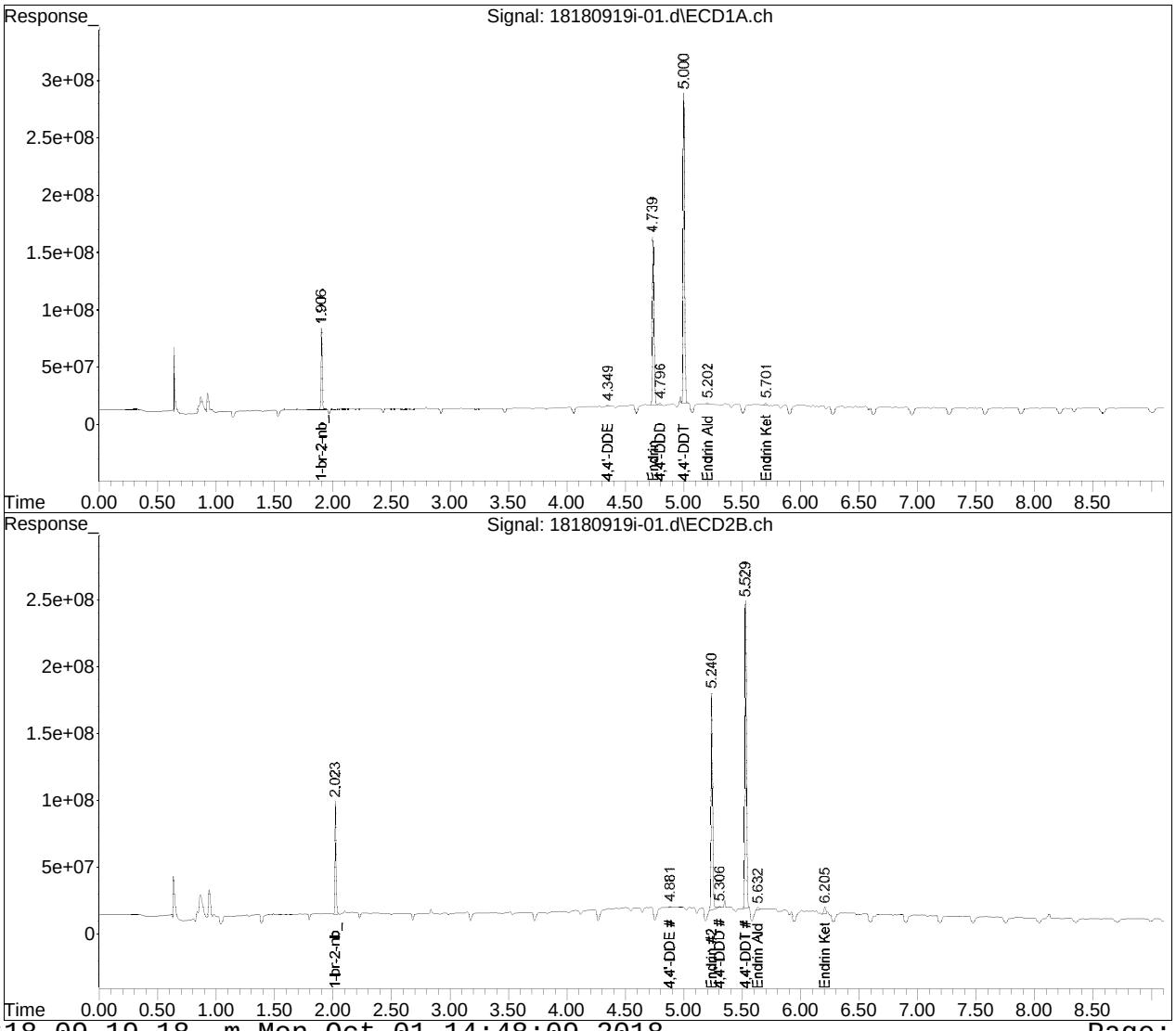
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : 4_DEG - deg checkReport (QT Reviewed)

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-01.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Sep 2018 5:58 pm
Operator : PEST18:jw
Sample : pem1818091901ical,42ee,,deg pp8838 (Sig #1); deg pp8838 (Sig #2)
Misc : wg1162772,ical
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 16:35:44 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Thu Sep 27 16:34:23 2018
Response via : Initial Calibration
Integrator: ChemStation

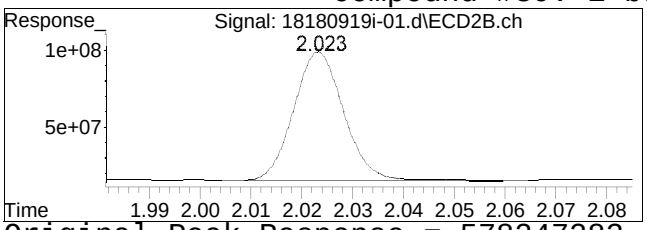
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

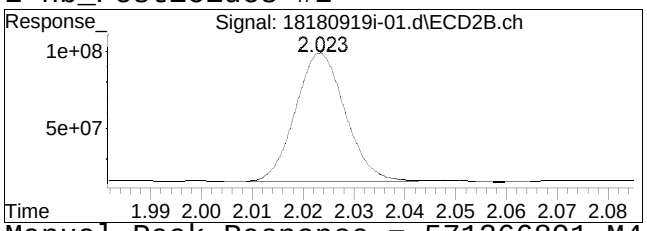


Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\ QMethod : pest18_09_19_18_.m
Data File : 18180919i-01.d Operator : PEST18:jw
Date Inj'd : 9/19/2018 5:58 pm Instrument : Pest 18
Sample : pem1818091901ical,42ee,,degQuant Date : 9/27/2018 4:34 pm

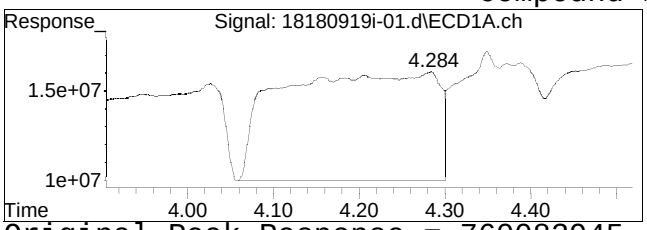
Compound #39: 1-br-2-nb_Pesticides #2

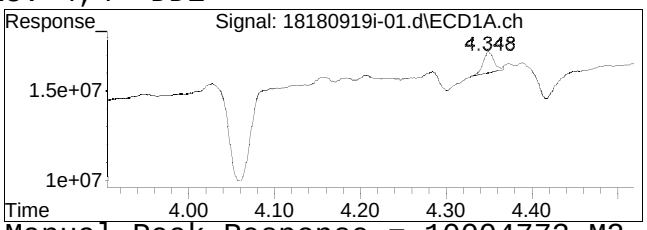




Original Peak Response = 578247283 Manual Peak Response = 571266891 M4
M4 = Poor automated baseline construction.

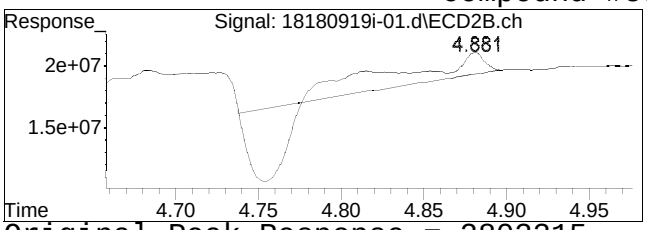
Compound #15: 4,4'-DDE

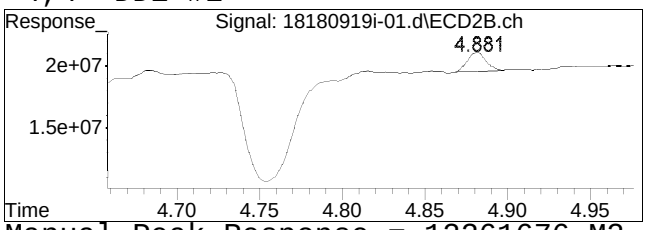




Original Peak Response = 760083945 Manual Peak Response = 10004773 M2
M2 = Peak not found by automatic integration algorithm.

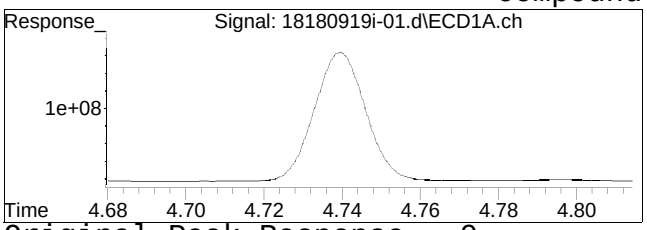
Compound #53: 4,4'-DDE #2

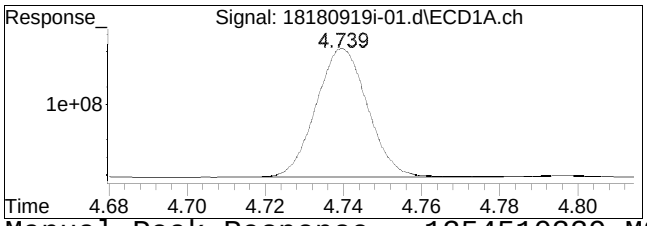




Original Peak Response = 2803315 Manual Peak Response = 12261676 M2
M2 = Peak not found by automatic integration algorithm.

Compound #18: Endrin



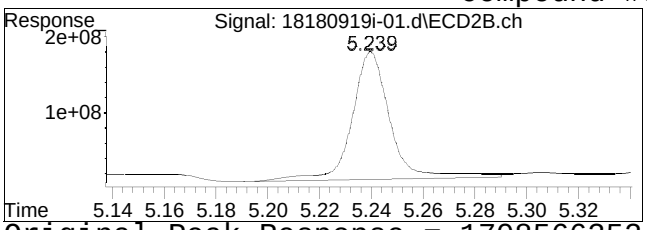


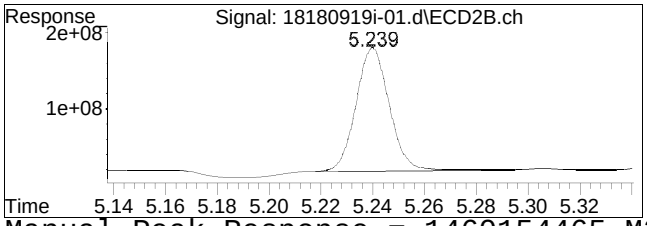
Original Peak Response = 0 Manual Peak Response = 1354510339 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\ QMethod : pest18_09_19_18_.m
Data File : 18180919i-01.d Operator : PEST18:jw
Date Inj'd : 9/19/2018 5:58 pm Instrument : Pest 18
Sample : pem1818091901ical,42ee,,degQuant Date : 9/27/2018 4:34 pm

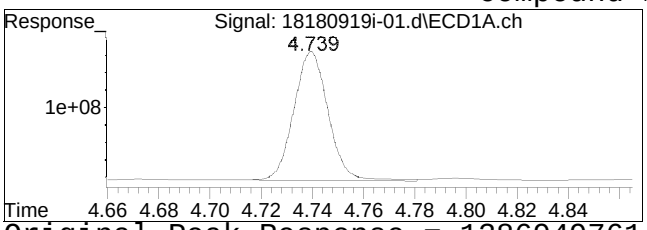
Compound #56: Endrin #2

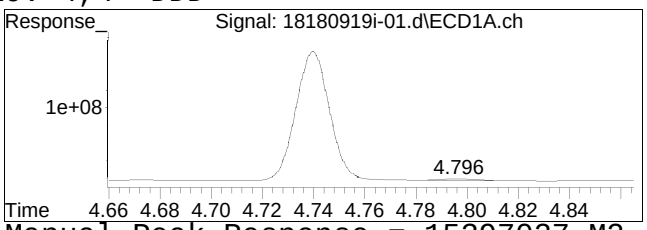




Original Peak Response = 1708566352 Manual Peak Response = 1460154465 M2
M2 = Peak not found by automatic integration algorithm.

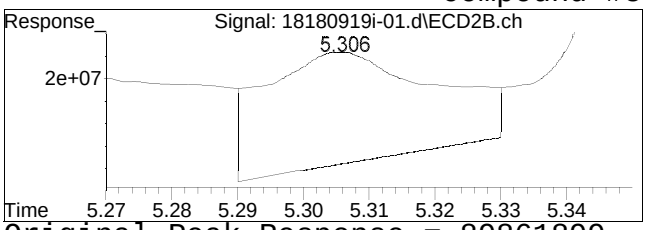
Compound #19: 4,4'-DDD

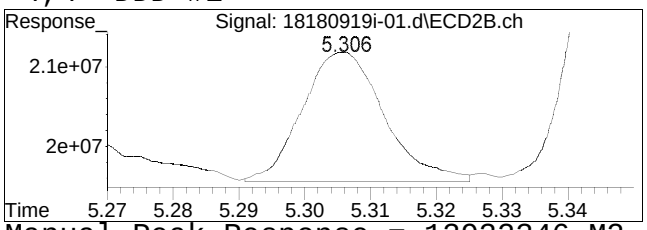




Original Peak Response = 1386949761 Manual Peak Response = 15397027 M2
M2 = Peak not found by automatic integration algorithm.

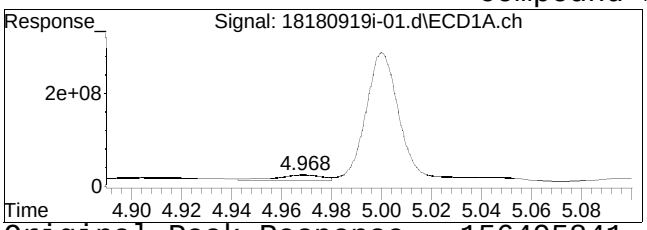
Compound #57: 4,4'-DDD #2

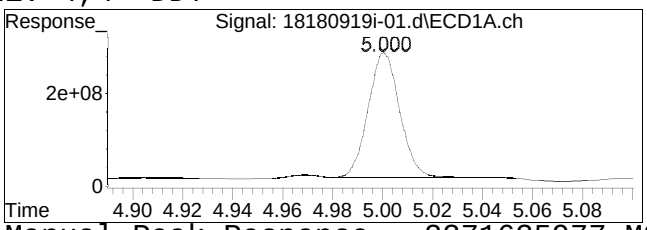




Original Peak Response = 89861899 Manual Peak Response = 13932346 M2
M2 = Peak not found by automatic integration algorithm.

Compound #21: 4,4'-DDT



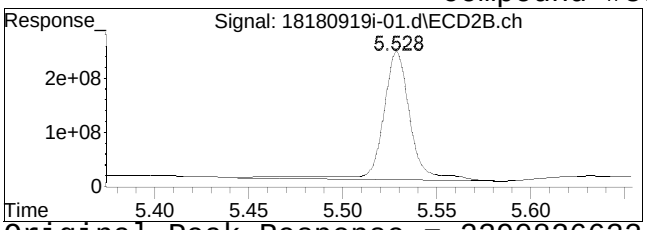


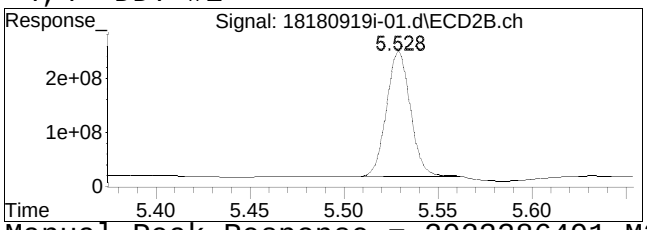
Original Peak Response = 156495841 Manual Peak Response = 2371635977 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\ QMethod : pest18_09_19_18_.m
Data File : 18180919i-01.d Operator : PEST18:jw
Date Inj'd : 9/19/2018 5:58 pm Instrument : Pest 18
Sample : pem1818091901ical,42ee,,degQuant Date : 9/27/2018 4:34 pm

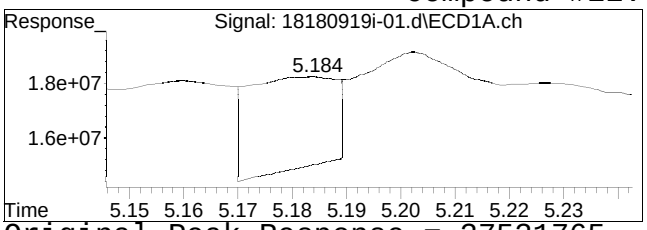
Compound #59: 4,4'-DDT #2

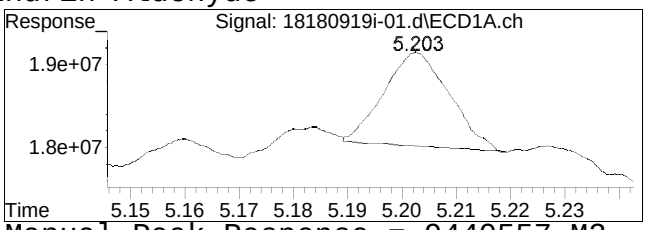




Original Peak Response = 2390826632 Manual Peak Response = 2023386491 M2
M2 = Peak not found by automatic integration algorithm.

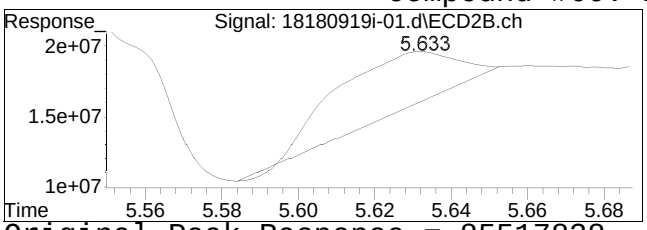
Compound #22: Endrin Aldehyde

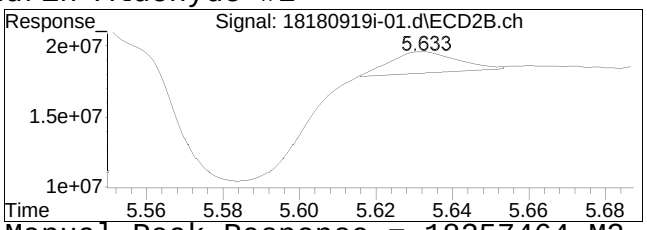




Original Peak Response = 37531765 Manual Peak Response = 9440557 M2
M2 = Peak not found by automatic integration algorithm.

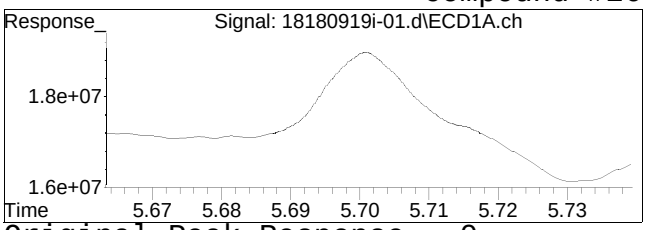
Compound #60: Endrin Aldehyde #2

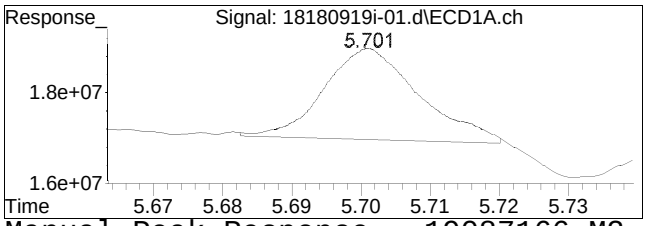




Original Peak Response = 85517838 Manual Peak Response = 18257464 M2
M2 = Peak not found by automatic integration algorithm.

Compound #26: Endrin Ketone



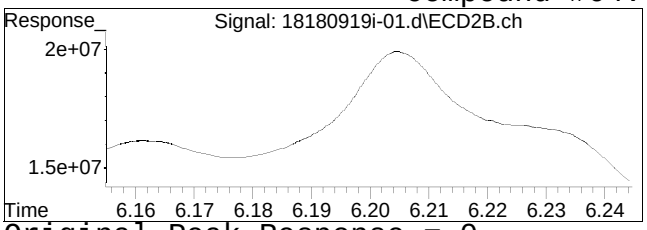


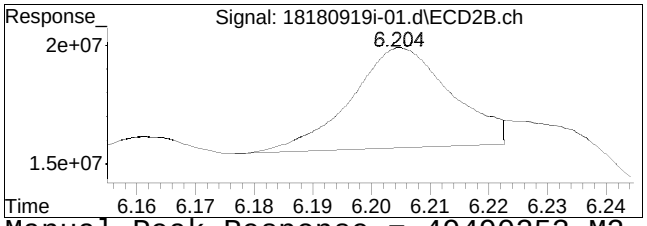
Original Peak Response = 0 Manual Peak Response = 19087166 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\ QMethod : pest18_09_19_18_.m
Data File : 18180919i-01.d Operator : PEST18:jw
Date Inj'd : 9/19/2018 5:58 pm Instrument : Pest 18
Sample : pem1818091901ical,42ee,,degQuant Date : 9/27/2018 4:34 pm

Compound #64: Endrin Ketone #2





Original Peak Response = 0 Manual Peak Response = 49490253 M2
M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-02.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Sep 2018 6:11 pm
Operator : PEST18:jw
Sample : il1pest,42e,,pp8813
Misc : wg1162772,ical
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 16:34:14 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Thu Sep 27 16:28:03 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb...	1.886	2.004	561.7E6	662.0E6	25.000M4	25.000M4
28) i	1-br-2-nb...	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb...	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-T...	2.370	2.612	13771021	17204597	0.547M4	0.577M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		1.09%#	1.15%#
27) s	Decachlor...	6.346	6.963f	7959207	13415073	0.347M2	0.553M2
#							
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.69%#	1.11%#
	Target Compounds						
3)	Hexachlor...	2.627	2.969	16019478	19056854	0.611M4	0.620
4)	alpha-BHC	2.743	3.072	21323331	25609806	0.571M4	0.569M4
5)	gamma-BHC...	2.965	3.360	19863632	24430928	0.576M4	0.588M4
6)	beta-BHC	3.029	3.426	11857181	13226135	0.711M2	0.647M2
7)	delta-BHC	3.161	3.678	20136392	24369919	0.576M2	0.578M4
8)	Heptachlor	3.325	3.735	21477511	27152167	0.606M2	0.626M2
9)	Aldrin	3.560	4.018	16967375	22151067	0.556M2	0.592M2
10)	Alachlor	3.669	3.911	2648830	2935380	0.591M2	0.594M4
11)	Chlorpyrifos	3.756	4.194	11324164	14015408	0.605M2	0.619M2
12)	Heptachlo...	4.049	4.486	17363419	21240150	0.585M2	0.608M4

Quantitation Report (QT Reviewed)

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-02.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Sep 2018 6:11 pm
Operator : PEST18:jw
Sample : il1pest,42e,,pp8813
Misc : wg1162772,ical
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 16:34:14 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Thu Sep 27 16:28:03 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
13)		gamma-Chl...	4.150	4.634	18181808	27206253	0.578M2	0.703M2
14)		alpha-Chl...	4.254	4.746	18349779	18637961	0.598M2	0.524M2
15)		4,4'-DDE	4.318	4.864	16422768	19623327	0.570M2	0.573M2
16)		Endosulfan I	4.357	4.793	16674371	20004726	0.583M2	0.593M2
17)		Dieldrin	4.540	4.998	16973965	19535714	0.568M2	0.566M2
18)		Endrin	4.713	5.223	17263582	20601162	0.570M2	0.590M2
19)		4,4'-DDD	4.771	5.288	15513588	17598751	0.608M2	0.589M2
20)		Endosulfa...	4.879	5.375	16855461	20077479	0.599M2	0.611M2
21)		4,4'-DDT	4.976	5.509	17229959	19800111	0.610M2	0.606M2
22)		Endrin Al...	5.179	5.609	14369746	17253194	0.582M2	0.619M2
23)		Methoxychlor	5.329	5.973	9865991	10968074	0.620M2	0.630M2
24)		Mirex	5.417	6.140	29364054	30890108	1.057	1.046
25)		Endosulfa...	5.480	5.799	13857170	19512231	0.501M2	0.598
26)		Endrin Ke...	5.671	6.167	17432060	18814819	0.584	0.583
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-2	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
32)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
	Sum	chlordane-1			0	0	N.D.	N.D.
Average		chlordane-1					0.000	0.000

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-02.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Sep 2018 6:11 pm
Operator : PEST18:jw
Sample : il1pest,42e,,pp8813
Misc : wg1162772,ical
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 16:34:14 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Thu Sep 27 16:28:03 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

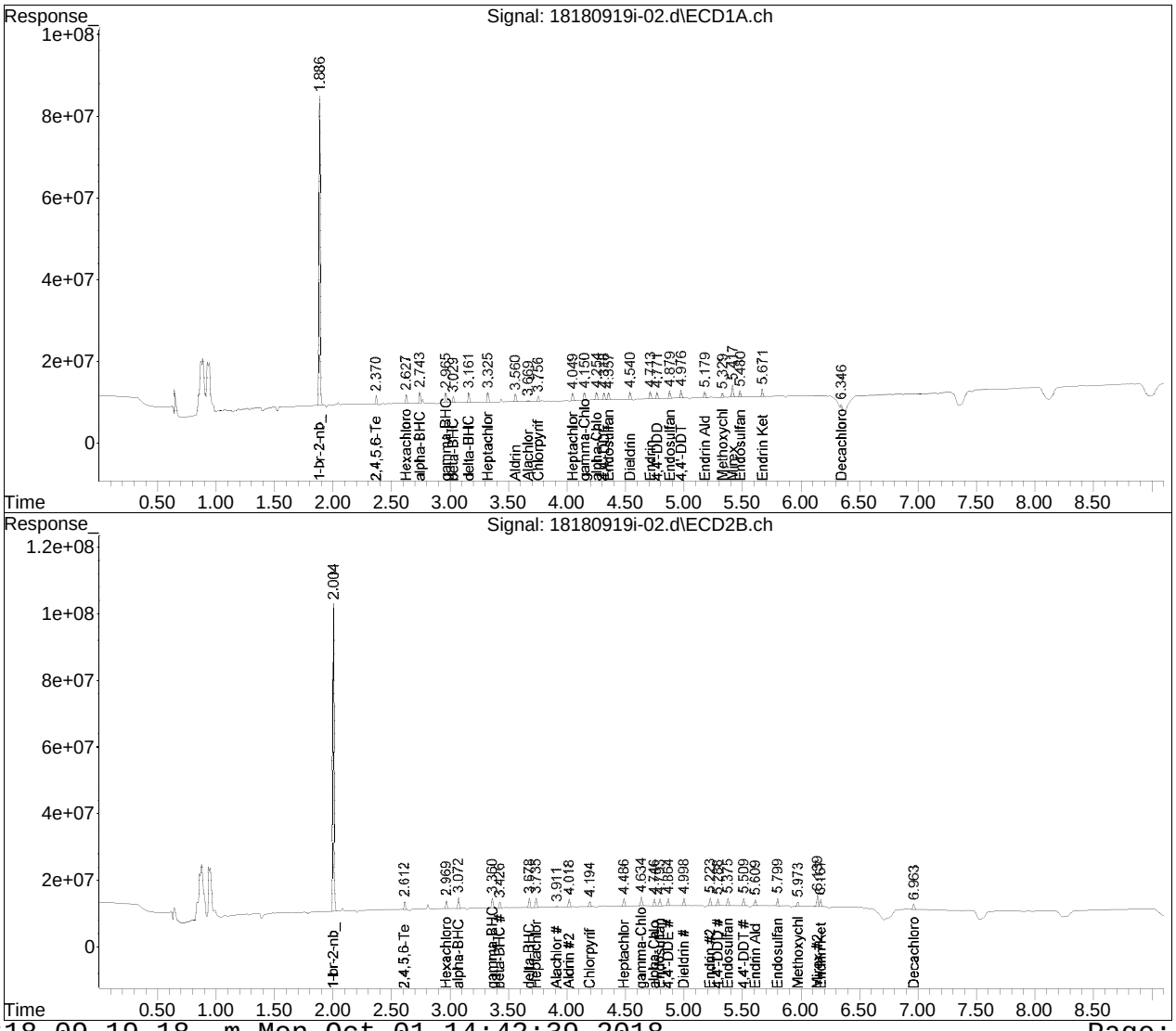
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-02.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Sep 2018 6:11 pm
Operator : PEST18:jw
Sample : il1pest,42e,,pp8813
Misc : wg1162772,ical
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 16:34:14 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Thu Sep 27 16:28:03 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

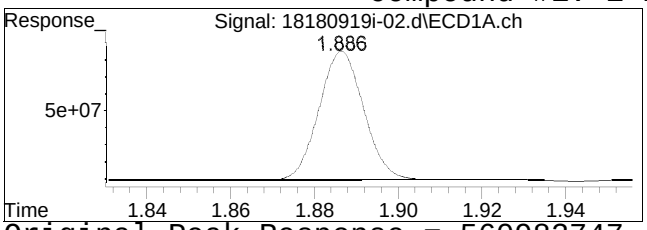


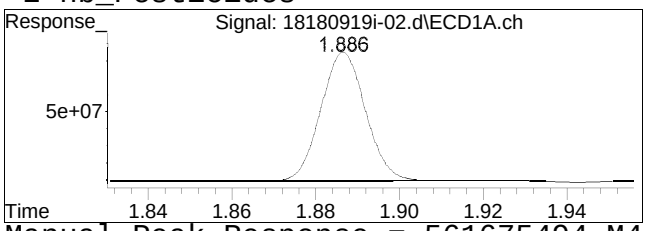
Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-02.d
Date Inj'd : 9/19/2018 6:11 pm
Sample : il1pest,42e,,pp8813

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/27/2018 4:28 pm

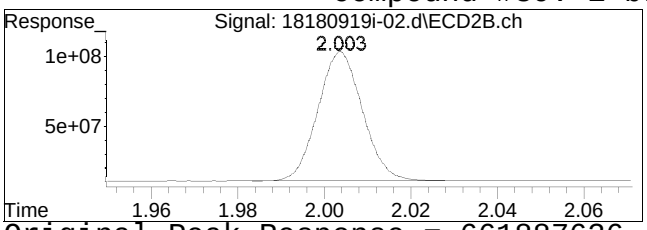
Compound #1: 1-br-2-nb_Pesticides

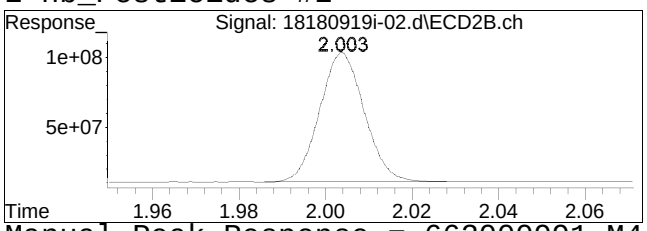




Original Peak Response = 560983747 Manual Peak Response = 561675494 M4
M4 = Poor automated baseline construction.

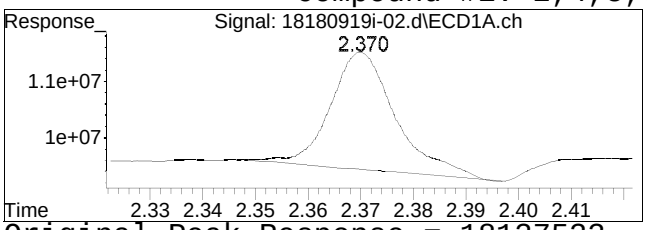
Compound #39: 1-br-2-nb_Pesticides #2

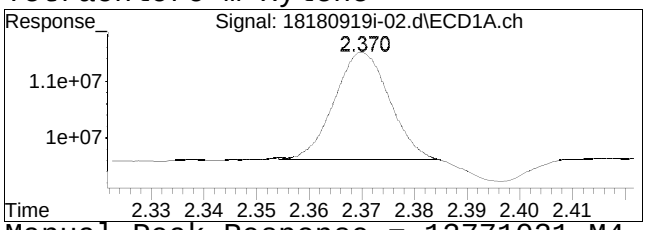




Original Peak Response = 661887636 Manual Peak Response = 662000991 M4
M4 = Poor automated baseline construction.

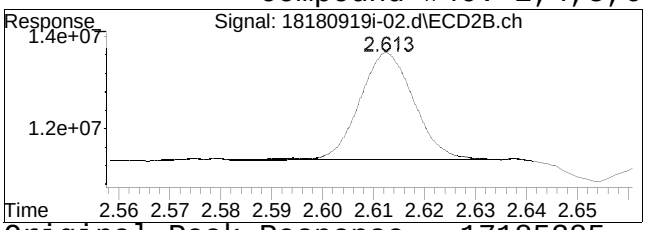
Compound #2: 2,4,5,6-Tetrachloro-m-xylene

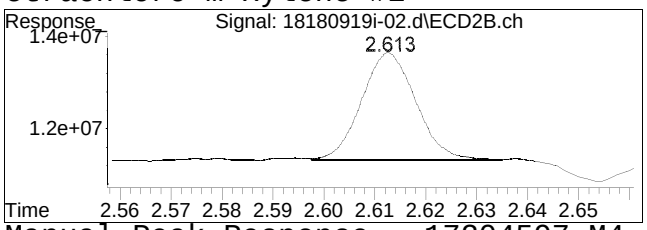




Original Peak Response = 18137533 Manual Peak Response = 13771021 M4
M4 = Poor automated baseline construction.

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2





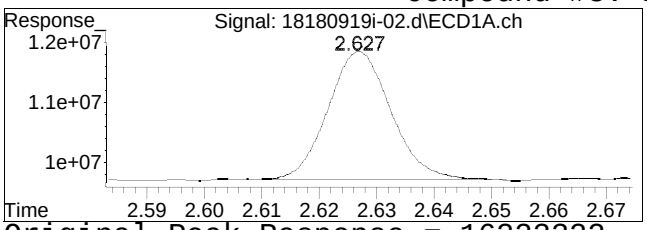
Original Peak Response = 17185285 Manual Peak Response = 17204597 M4
M4 = Poor automated baseline construction.

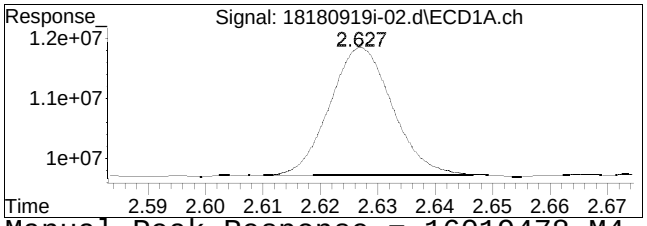
Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-02.d
Date Inj'd : 9/19/2018 6:11 pm
Sample : il1pest,42e,,pp8813

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/27/2018 4:28 pm

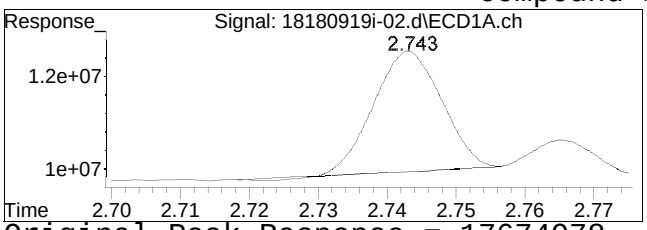
Compound #3: Hexachlorobenzene

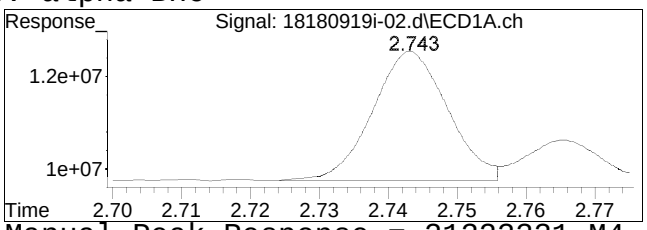




Original Peak Response = 16223322 Manual Peak Response = 16019478 M4
M4 = Poor automated baseline construction.

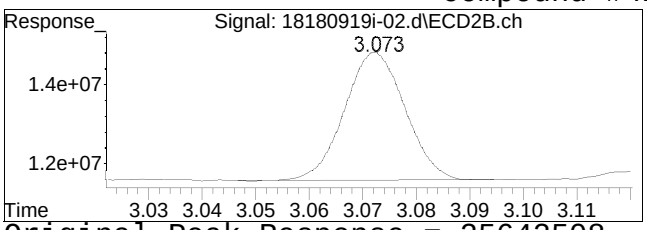
Compound #4: alpha-BHC

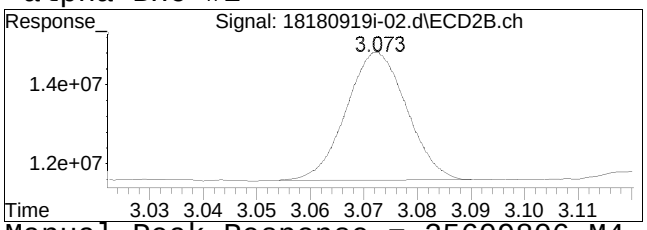




Original Peak Response = 17674978 Manual Peak Response = 21323331 M4
M4 = Poor automated baseline construction.

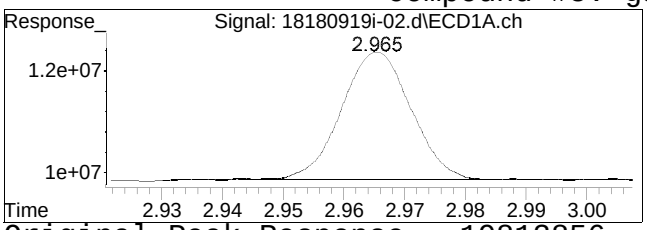
Compound #42: alpha-BHC #2

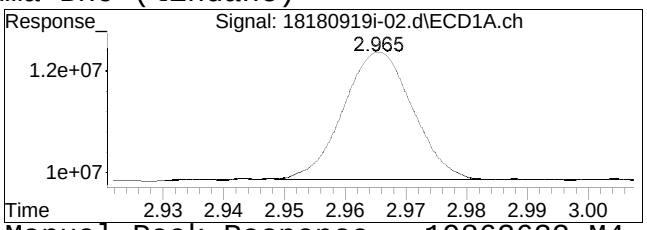




Original Peak Response = 25642508 Manual Peak Response = 25609806 M4
M4 = Poor automated baseline construction.

Compound #5: gamma-BHC (lindane)





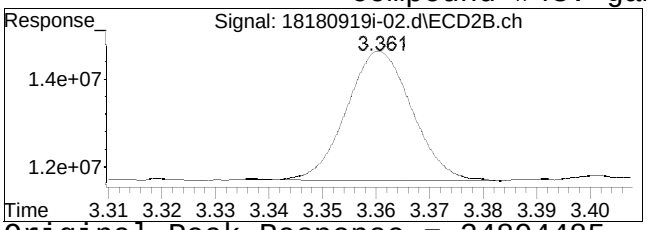
Original Peak Response = 19813856 Manual Peak Response = 19863632 M4
M4 = Poor automated baseline construction.

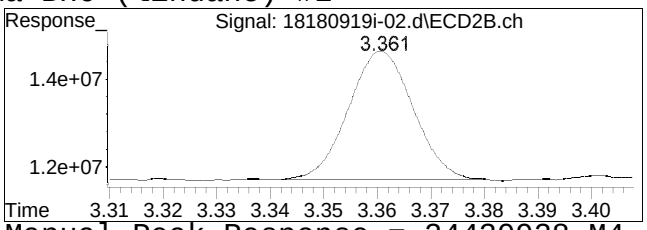
Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-02.d
Date Inj'd : 9/19/2018 6:11 pm
Sample : il1pest,42e,,pp8813

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/27/2018 4:28 pm

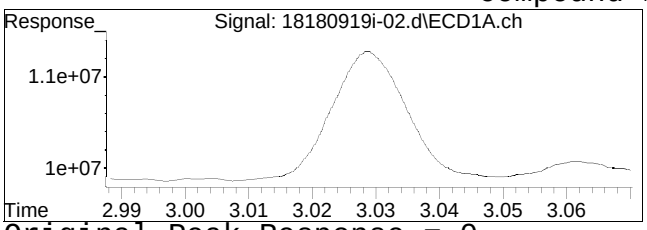
Compound #43: gamma-BHC (lindane) #2

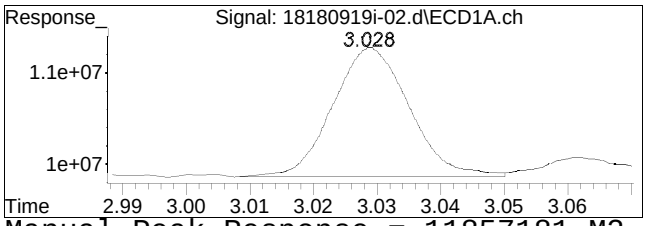




Original Peak Response = 24894485 Manual Peak Response = 24430928 M4
M4 = Poor automated baseline construction.

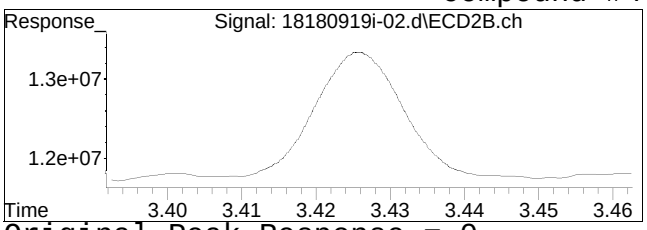
Compound #6: beta-BHC

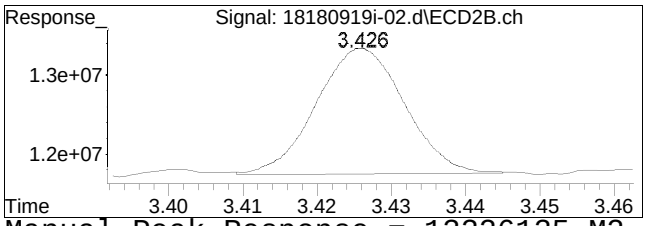




Original Peak Response = 0 Manual Peak Response = 11857181 M2
M2 = Peak not found by automatic integration algorithm.

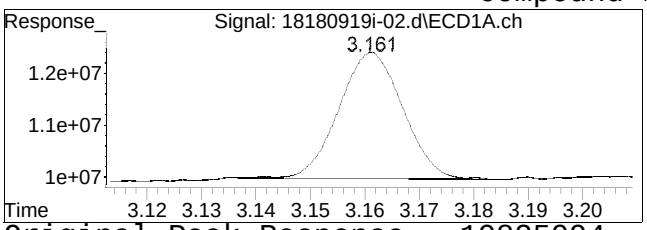
Compound #44: beta-BHC #2

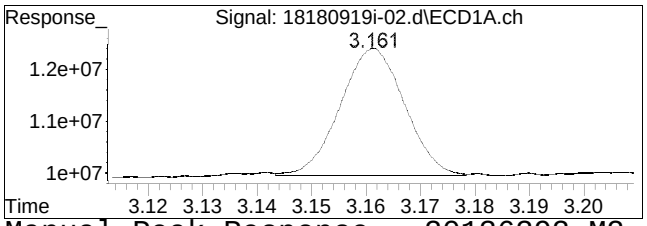




Original Peak Response = 0 Manual Peak Response = 13226135 M2
M2 = Peak not found by automatic integration algorithm.

Compound #7: delta-BHC





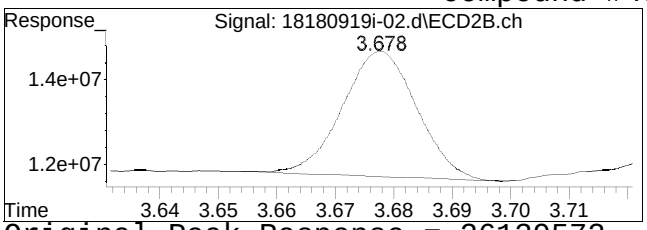
Original Peak Response = 19825994 Manual Peak Response = 20136392 M2
M2 = Peak not found by automatic integration algorithm.

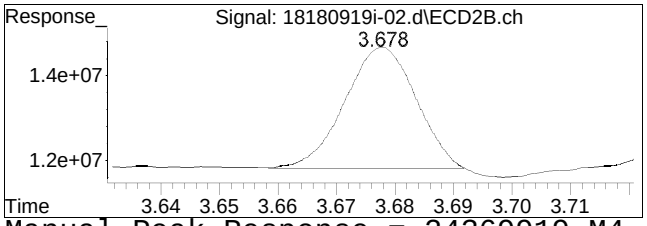
Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-02.d
Date Inj'd : 9/19/2018 6:11 pm
Sample : il1pest,42e,,pp8813

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/27/2018 4:28 pm

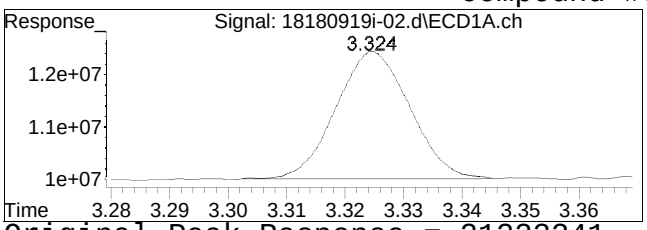
Compound #45: delta-BHC #2

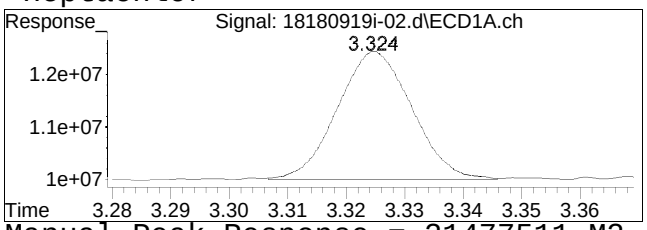




Original Peak Response = 26139572 Manual Peak Response = 24369919 M4
M4 = Poor automated baseline construction.

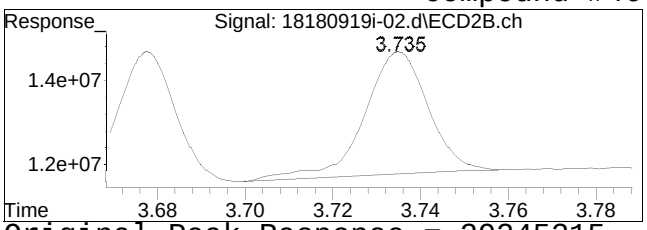
Compound #8: Heptachlor

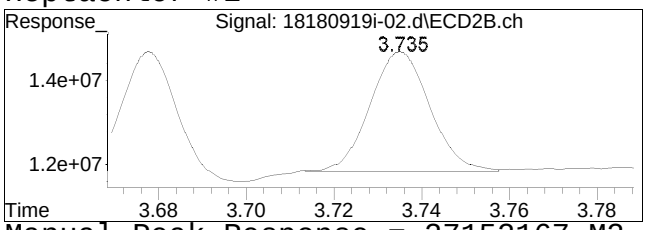




Original Peak Response = 21223241 Manual Peak Response = 21477511 M2
M2 = Peak not found by automatic integration algorithm.

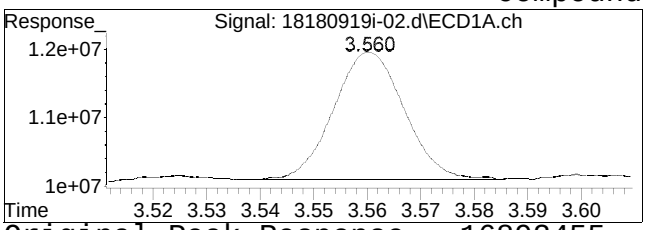
Compound #46: Heptachlor #2

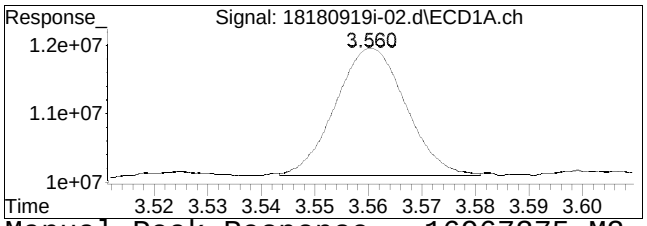




Original Peak Response = 29245215 Manual Peak Response = 27152167 M2
M2 = Peak not found by automatic integration algorithm.

Compound #9: Aldrin





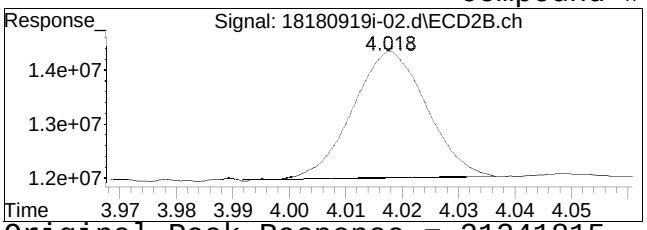
Original Peak Response = 16892455 Manual Peak Response = 16967375 M2
M2 = Peak not found by automatic integration algorithm.

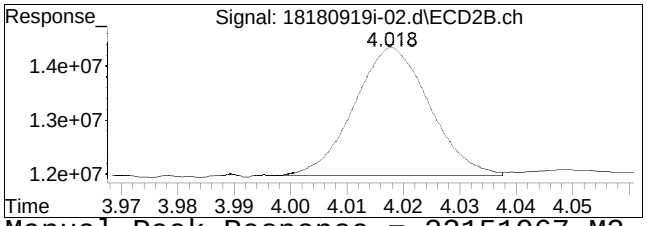
Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-02.d
Date Inj'd : 9/19/2018 6:11 pm
Sample : il1pest,42e,,pp8813

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/27/2018 4:28 pm

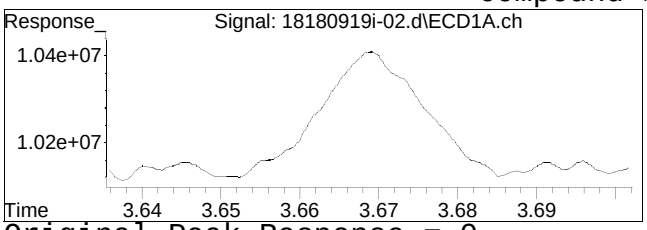
Compound #47: Aldrin #2

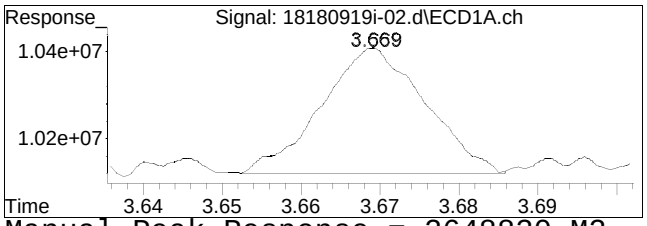




Original Peak Response = 21241815 Manual Peak Response = 22151067 M2
M2 = Peak not found by automatic integration algorithm.

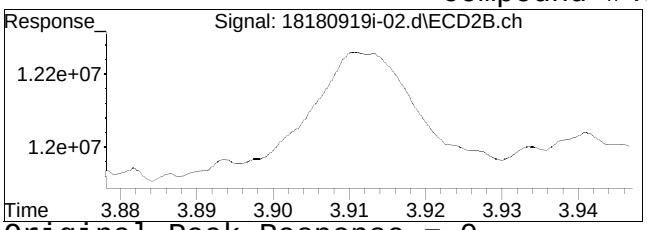
Compound #10: Alachlor

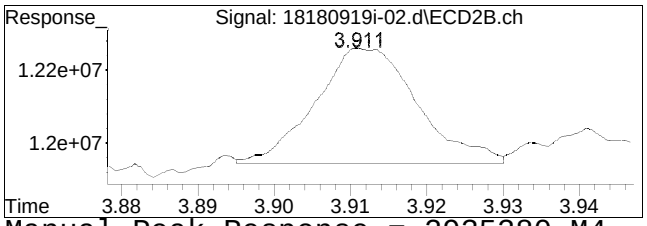




Original Peak Response = 0 Manual Peak Response = 2648830 M2
M2 = Peak not found by automatic integration algorithm.

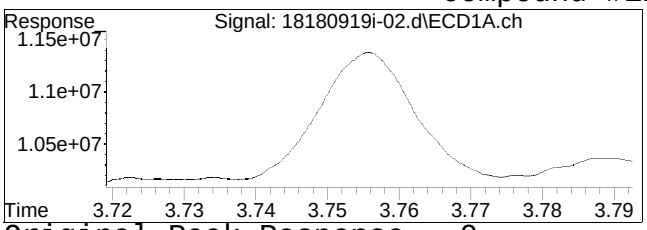
Compound #48: Alachlor #2

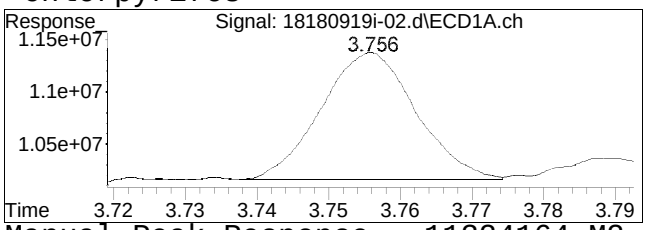




Original Peak Response = 0 Manual Peak Response = 2935380 M4
M4 = Poor automated baseline construction.

Compound #11: Chlorpyrifos





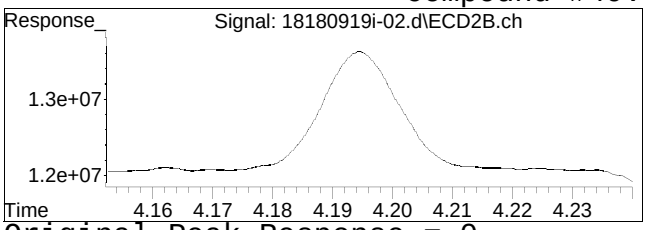
Original Peak Response = 0 Manual Peak Response = 11324164 M2
M2 = Peak not found by automatic integration algorithm.

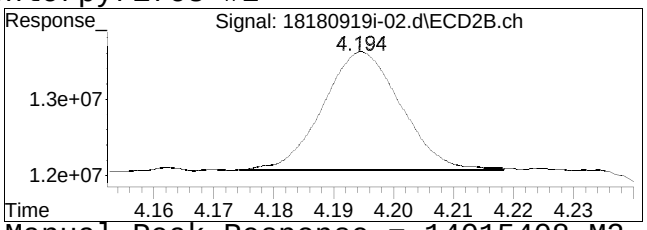
Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-02.d
Date Inj'd : 9/19/2018 6:11 pm
Sample : il1pest,42e,,pp8813

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/27/2018 4:28 pm

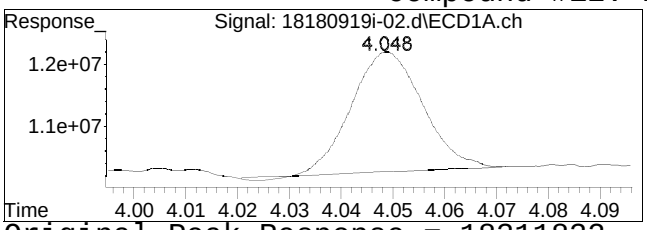
Compound #49: Chlorpyrifos #2

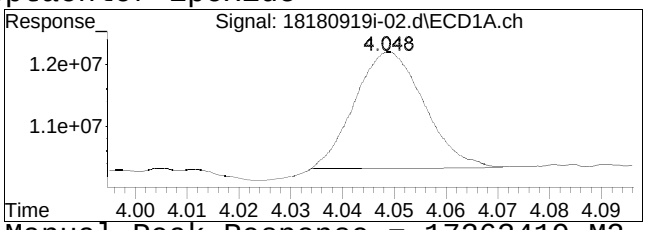




Original Peak Response = 0 Manual Peak Response = 14015408 M2
M2 = Peak not found by automatic integration algorithm.

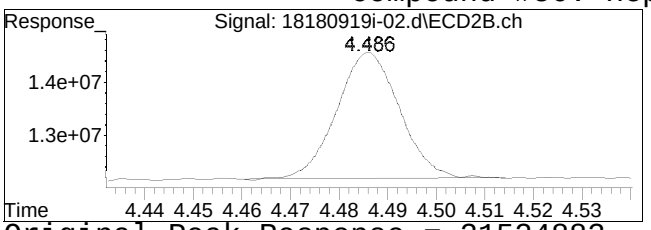
Compound #12: Heptachlor Epoxide

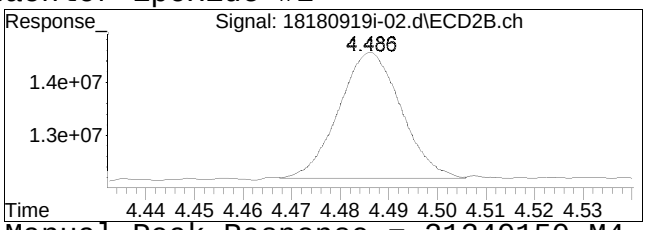




Original Peak Response = 18311832 Manual Peak Response = 17363419 M2
M2 = Peak not found by automatic integration algorithm.

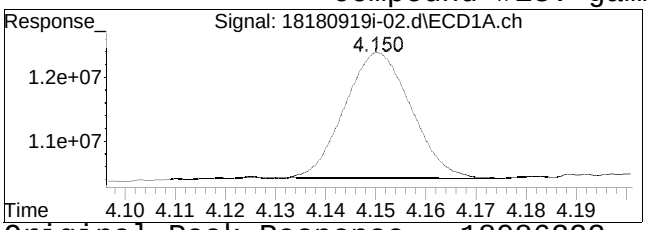
Compound #50: Heptachlor Epoxide #2

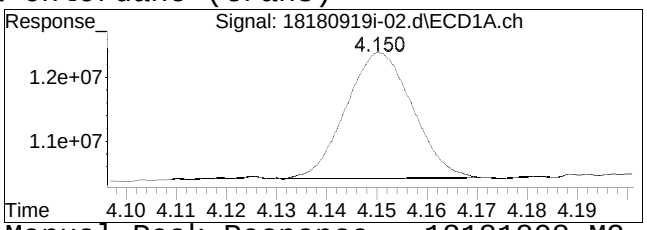




Original Peak Response = 21524883 Manual Peak Response = 21240150 M4
M4 = Poor automated baseline construction.

Compound #13: gamma-Chlordane (trans)





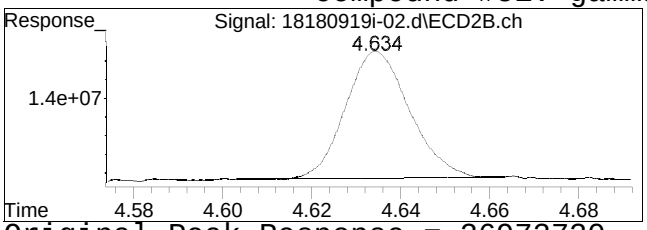
Original Peak Response = 18086222 Manual Peak Response = 18181808 M2
M2 = Peak not found by automatic integration algorithm.

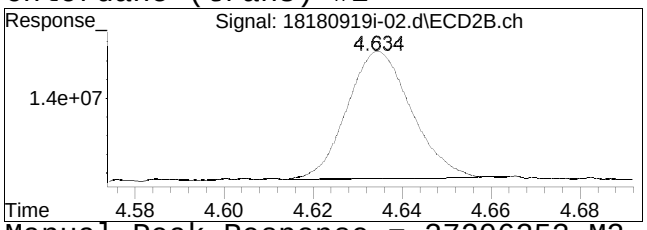
Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-02.d
Date Inj'd : 9/19/2018 6:11 pm
Sample : il1pest,42e,,pp8813

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/27/2018 4:28 pm

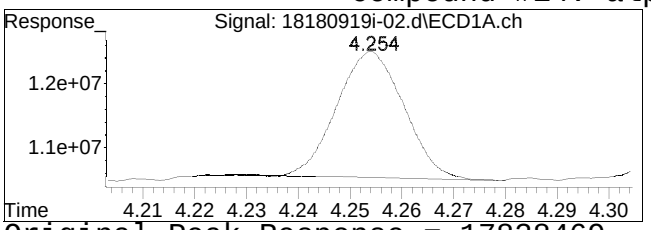
Compound #51: gamma-Chlordane (trans) #2

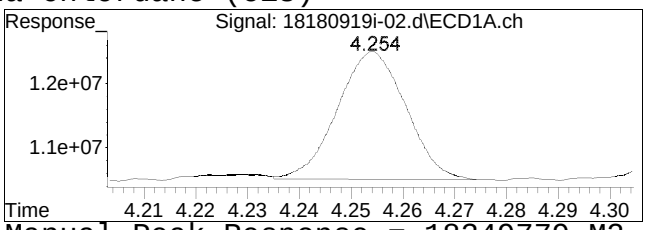




Original Peak Response = 26973730 Manual Peak Response = 27206253 M2
M2 = Peak not found by automatic integration algorithm.

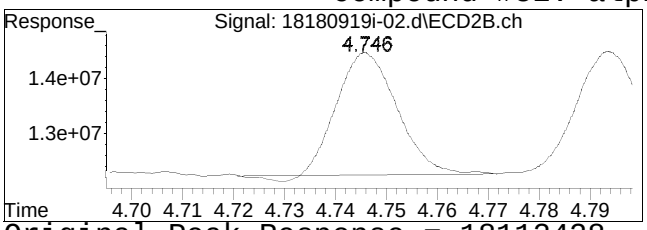
Compound #14: alpha-Chlordane (cis)

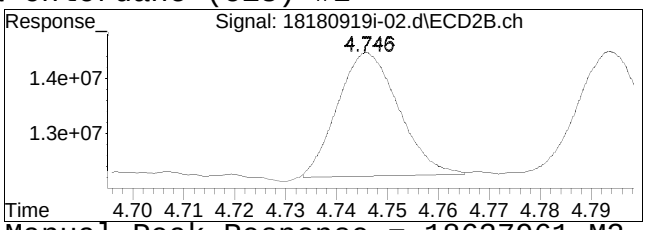




Original Peak Response = 17838469 Manual Peak Response = 18349779 M2
M2 = Peak not found by automatic integration algorithm.

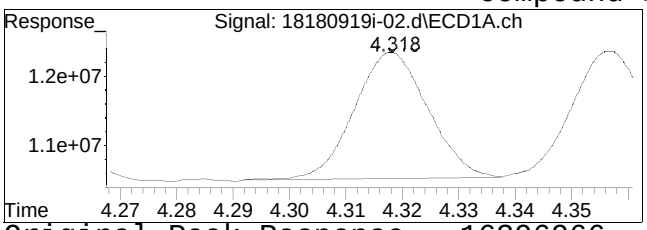
Compound #52: alpha-Chlordane (cis) #2

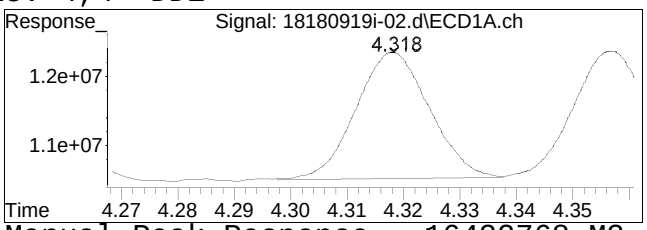




Original Peak Response = 18112428 Manual Peak Response = 18637961 M2
M2 = Peak not found by automatic integration algorithm.

Compound #15: 4,4'-DDE





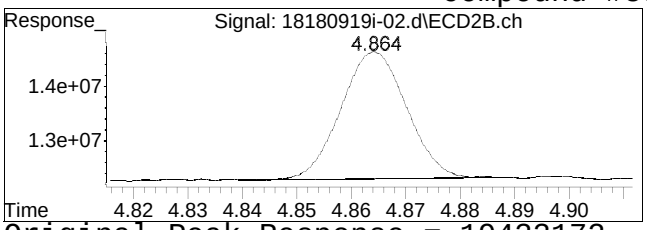
Original Peak Response = 16396966 Manual Peak Response = 16422768 M2
M2 = Peak not found by automatic integration algorithm.

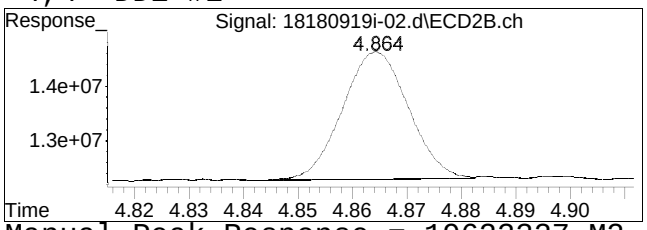
Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-02.d
Date Inj'd : 9/19/2018 6:11 pm
Sample : il1pest,42e,,pp8813

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/27/2018 4:28 pm

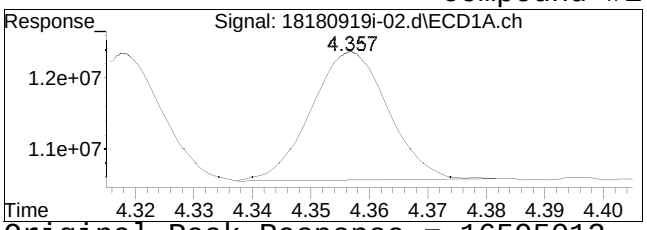
Compound #53: 4,4'-DDE #2

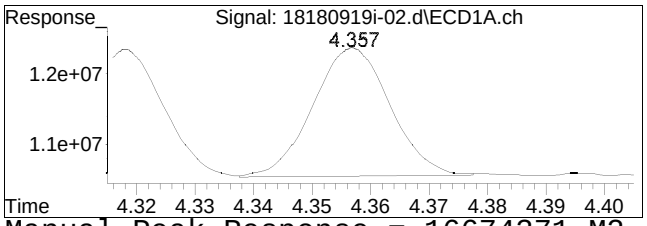




Original Peak Response = 19433172 Manual Peak Response = 19623327 M2
M2 = Peak not found by automatic integration algorithm.

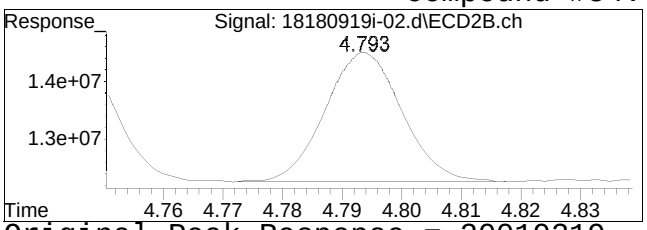
Compound #16: Endosulfan I

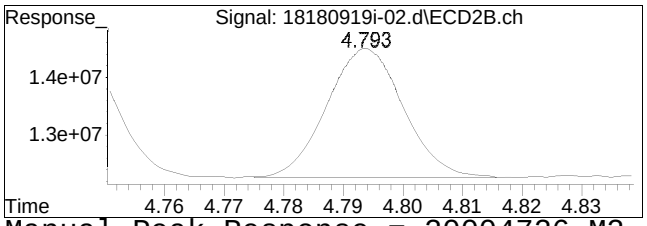




Original Peak Response = 16595012 Manual Peak Response = 16674371 M2
M2 = Peak not found by automatic integration algorithm.

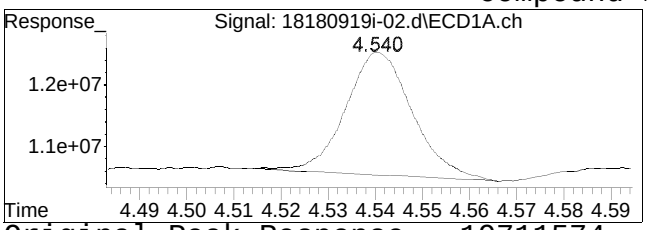
Compound #54: Endosulfan I #2

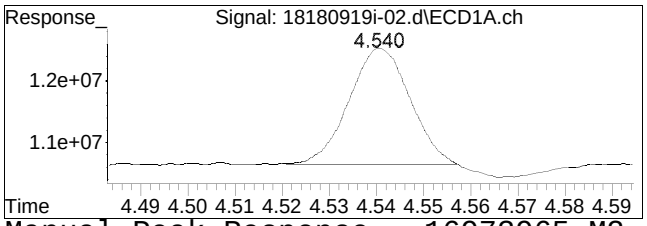




Original Peak Response = 20019219 Manual Peak Response = 20004726 M2
M2 = Peak not found by automatic integration algorithm.

Compound #17: Dieldrin





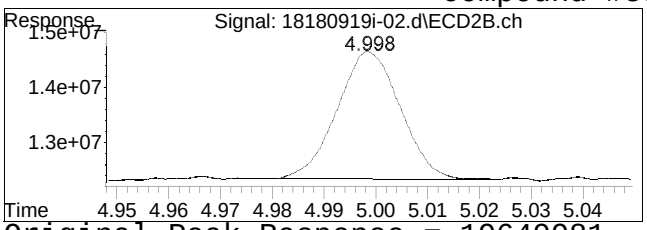
Original Peak Response = 19711574 Manual Peak Response = 16973965 M2
M2 = Peak not found by automatic integration algorithm.

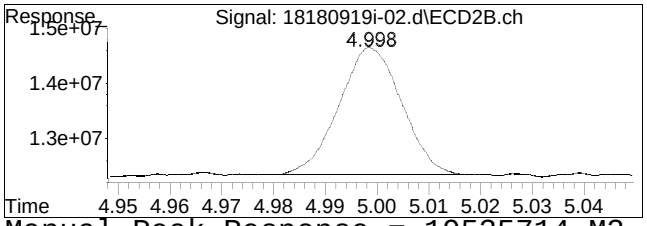
Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-02.d
Date Inj'd : 9/19/2018 6:11 pm
Sample : il1pest,42e,,pp8813

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/27/2018 4:28 pm

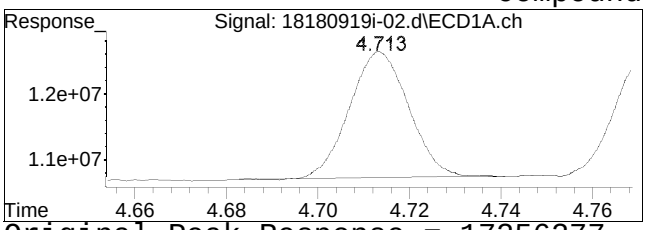
Compound #55: Dieldrin #2

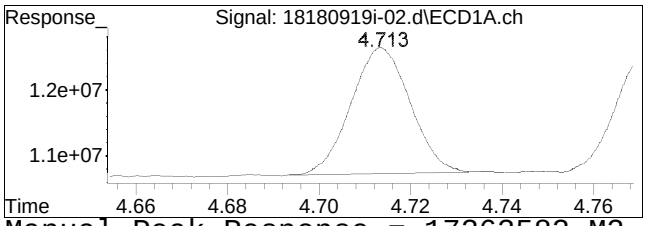




Original Peak Response = 19649981 Manual Peak Response = 19535714 M2
M2 = Peak not found by automatic integration algorithm.

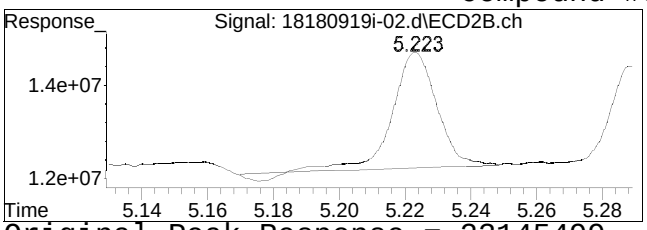
Compound #18: Endrin

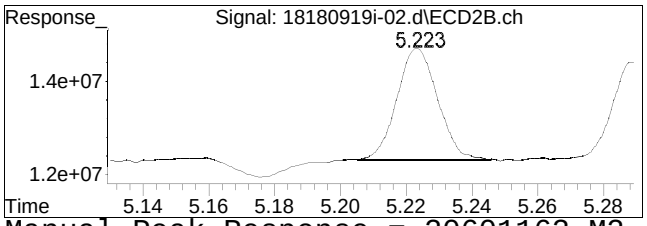




Original Peak Response = 17256277 Manual Peak Response = 17263582 M2
M2 = Peak not found by automatic integration algorithm.

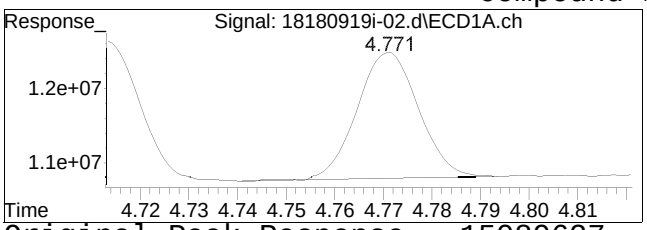
Compound #56: Endrin #2

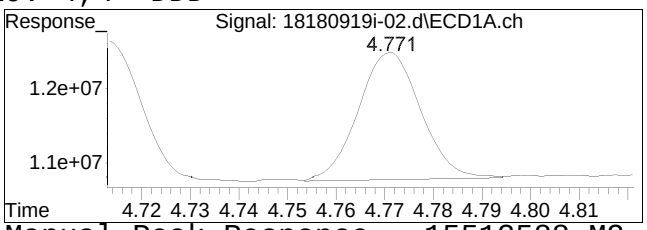




Original Peak Response = 23145499 Manual Peak Response = 20601162 M2
M2 = Peak not found by automatic integration algorithm.

Compound #19: 4,4'-DDD





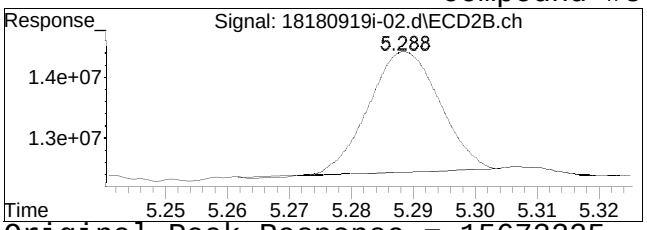
Original Peak Response = 15089627 Manual Peak Response = 15513588 M2
M2 = Peak not found by automatic integration algorithm.

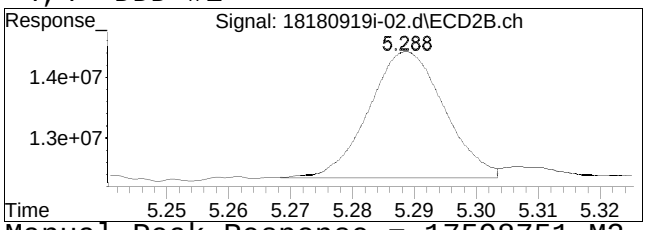
Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-02.d
Date Inj'd : 9/19/2018 6:11 pm
Sample : il1pest,42e,,pp8813

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/27/2018 4:28 pm

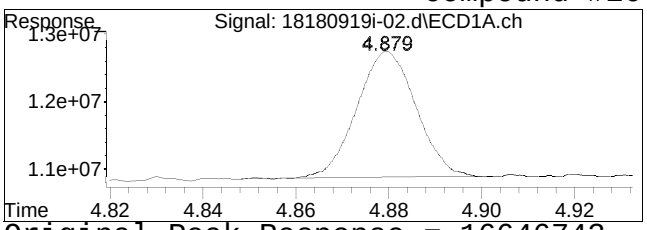
Compound #57: 4,4'-DDD #2

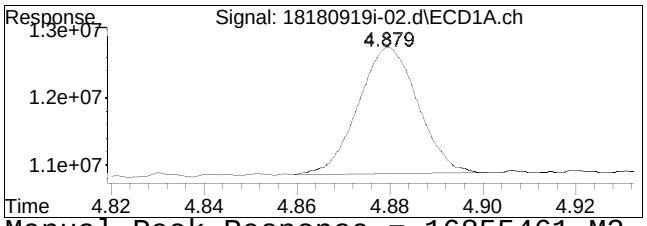




Original Peak Response = 15673225 Manual Peak Response = 17598751 M2
M2 = Peak not found by automatic integration algorithm.

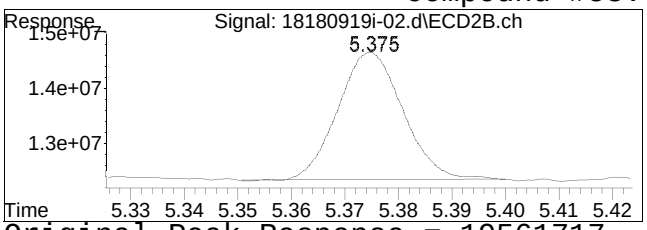
Compound #20: Endosulfan II

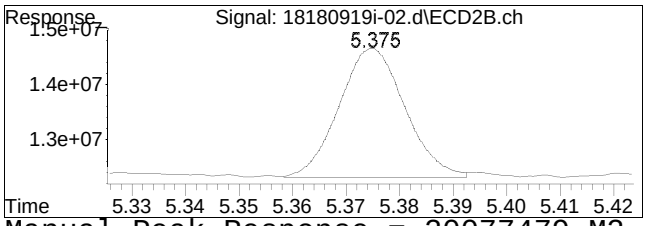




Original Peak Response = 16646743 Manual Peak Response = 16855461 M2
M2 = Peak not found by automatic integration algorithm.

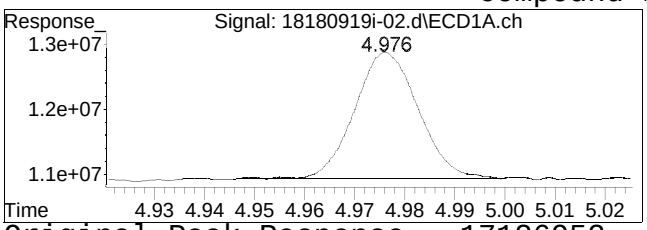
Compound #58: Endosulfan II #2

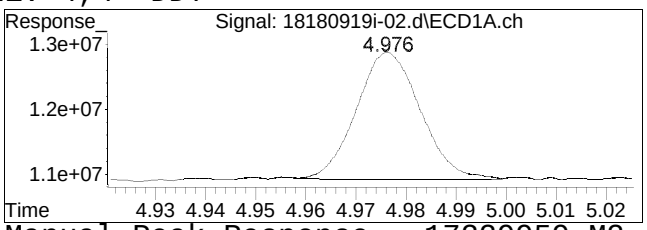




Original Peak Response = 19561717 Manual Peak Response = 20077479 M2
M2 = Peak not found by automatic integration algorithm.

Compound #21: 4,4'-DDT





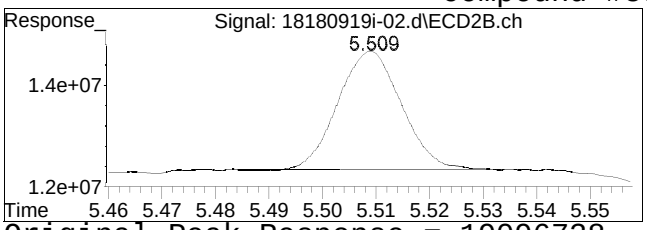
Original Peak Response = 17126952 Manual Peak Response = 17229959 M2
M2 = Peak not found by automatic integration algorithm.

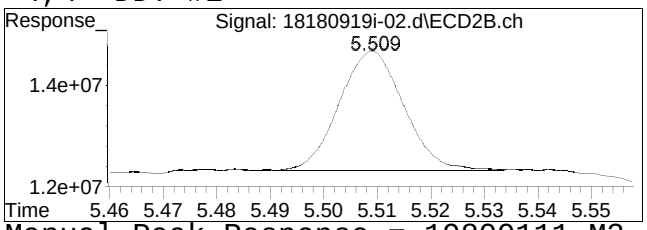
Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-02.d
Date Inj'd : 9/19/2018 6:11 pm
Sample : il1pest,42e,,pp8813

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/27/2018 4:28 pm

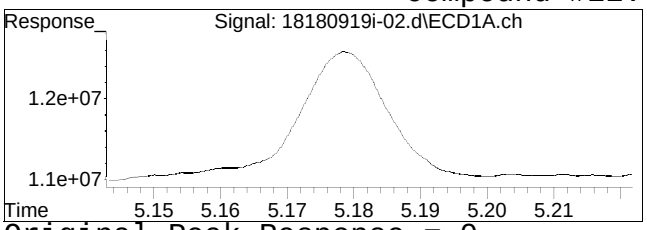
Compound #59: 4,4'-DDT #2

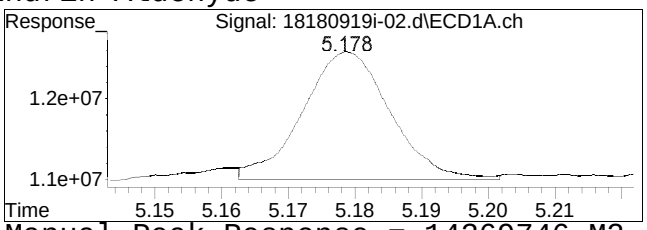




Original Peak Response = 19096738 Manual Peak Response = 19800111 M2
M2 = Peak not found by automatic integration algorithm.

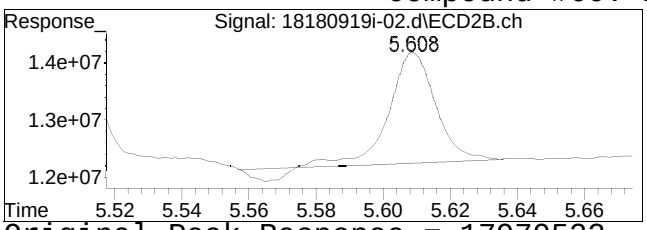
Compound #22: Endrin Aldehyde

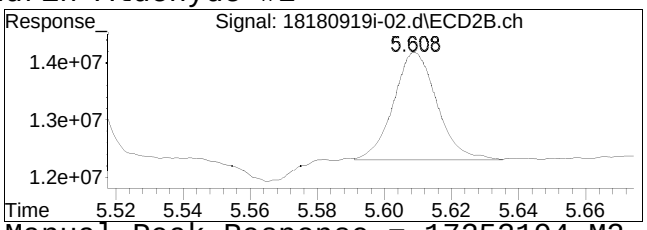




Original Peak Response = 0 Manual Peak Response = 14369746 M2
M2 = Peak not found by automatic integration algorithm.

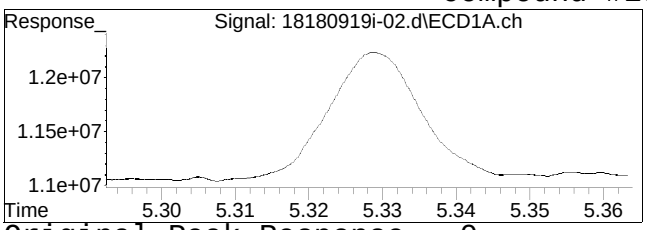
Compound #60: Endrin Aldehyde #2

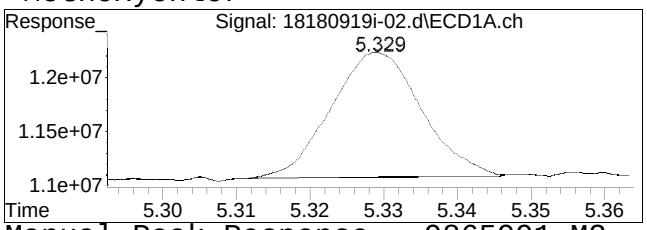




Original Peak Response = 17979522 Manual Peak Response = 17253194 M2
M2 = Peak not found by automatic integration algorithm.

Compound #23: Methoxychlor





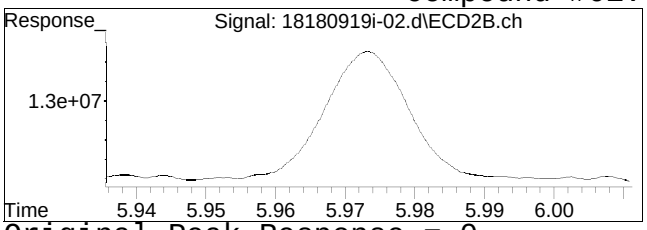
Original Peak Response = 0 Manual Peak Response = 9865991 M2
M2 = Peak not found by automatic integration algorithm.

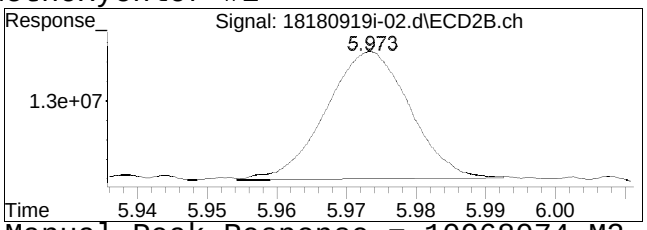
Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-02.d
Date Inj'd : 9/19/2018 6:11 pm
Sample : il1pest,42e,,pp8813

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/27/2018 4:28 pm

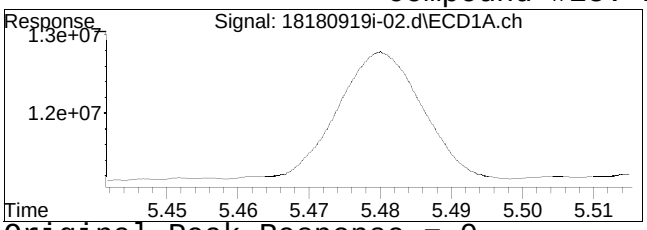
Compound #61: Methoxychlor #2

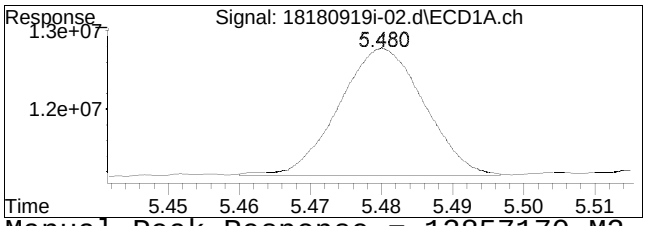




Original Peak Response = 0 Manual Peak Response = 10968074 M2
M2 = Peak not found by automatic integration algorithm.

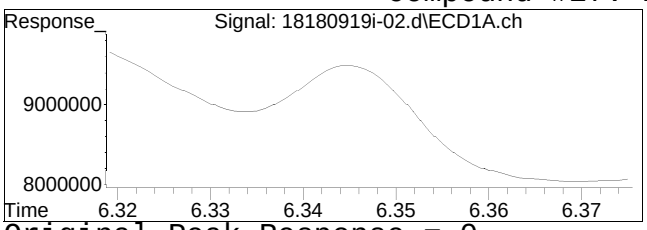
Compound #25: Endosulfan Sulfate

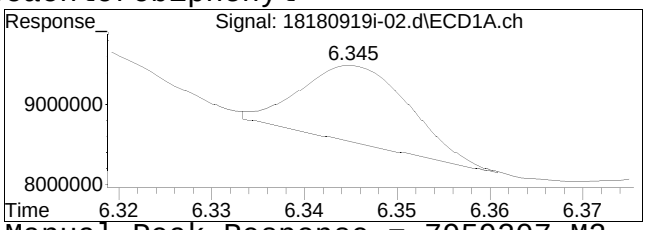




Original Peak Response = 0 Manual Peak Response = 13857170 M2
M2 = Peak not found by automatic integration algorithm.

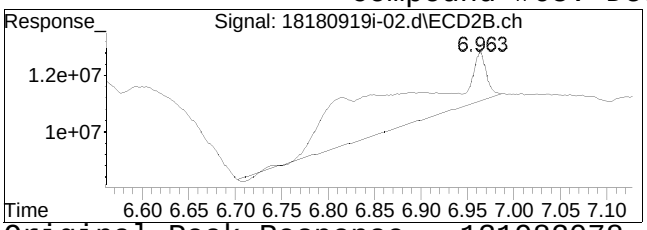
Compound #27: Decachlorobiphenyl

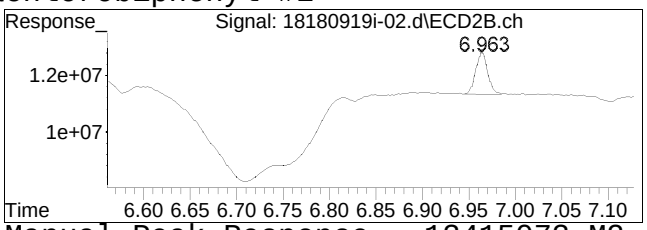




Original Peak Response = 0 Manual Peak Response = 7959207 M2
M2 = Peak not found by automatic integration algorithm.

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 131982078 Manual Peak Response = 13415073 M2
M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Sep 2018 6:24 pm
Operator : PEST18:jw
Sample : il2pest,42e,,pp8814
Misc : wg1162772,ical (Sig #1); ical (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 16:27:54 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Thu Sep 27 16:13:25 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb...	1.885	2.003	544.7E6	648.1E6	25.000M4	25.000M4
28) i	1-br-2-nb...	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb...	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-T...	2.368	2.612	26806257	32337200	1.112M4	1.123M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		2.22%#	2.25%#
27) s	Decachlor...	6.343	6.959	23170939	26303645	1.047M4	1.124M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		2.09%#	2.25%#
	Target Compounds						
3)	Hexachlor...	2.625	2.968	29783615	35291506	1.198M4	1.198M4
4)	alpha-BHC	2.741	3.071	37336067	45986644	1.035M4	1.049M4
5)	gamma-BHC...	2.963	3.360	34970202	43471712	1.052M4	1.079M4
6)	beta-BHC	3.026	3.425	18394355	23173364	1.157M4	1.182M4
7)	delta-BHC	3.159	3.677	34953961	43337105	1.035M4	1.057M4
8)	Heptachlor	3.322	3.734	38037642	46841178	1.121M4	1.118M4
9)	Aldrin	3.558	4.017	31199037	39431301	1.061M4	1.087M4
10)	Alachlor	3.668	3.911	4785371	5588583	1.114M4	1.179M4
11)	Chlorpyrifos	3.753	4.194	20882837	26183728	1.172M4	1.209M4

Quantitation Report (QT Reviewed)

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Sep 2018 6:24 pm
Operator : PEST18:jw
Sample : il2pest,42e,,pp8814
Misc : wg1162772,ical (Sig #1); ical (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 16:27:54 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Thu Sep 27 16:13:25 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)		Heptachlo...	4.046	4.485	32677833	38446783	1.154M4	1.143M4
13)		gamma-Chl...	4.148	4.633	32820974	43817765	1.085M4	1.179M4
14)		alpha-Chl...	4.252	4.745	31957948	38229010	1.084M4	1.112M4
15)		4,4'-DDE	4.316	4.863	29732814	36372256	1.074M4	1.096M4
16)		Endosulfan I	4.355	4.793	29668196	35329173	1.080	1.079
17)		Dieldrin	4.538	4.998	31811800	35947388	1.111M4	1.073M4
18)		Endrin	4.711	5.222	31396340	36973674	1.078M4	1.094M4
19)		4,4'-DDD	4.768	5.288	26587760	31117072	1.084M4	1.072M4
20)		Endosulfa...	4.877	5.374	29298748	36416999	1.084	1.150M4
21)		4,4'-DDT	4.974	5.508	29449075	35692709	1.085M4	1.132M4
22)		Endrin Al...	5.176	5.608	27336151	30629896	1.162M4	1.140M4
23)		Methoxychlor	5.326	5.972	17444179	19665814	1.150M4	1.177
24)		Mirex	5.414	6.138	49283515	54364040	2.042	2.112
25)		Endosulfa...	5.477	5.798	27771374	35496077	1.041M4	1.126M4
26)		Endrin Ke...	5.668	6.166	31420315	34690305	1.098M4	1.111
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-2	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
32)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum		chlordane-1			0	0	N.D.	N.D.
Average		chlordane-1					0.000	0.000
34)	l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Sep 2018 6:24 pm
Operator : PEST18:jw
Sample : il2pest,42e,,pp8814
Misc : wg1162772,ical (Sig #1); ical (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 16:27:54 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Thu Sep 27 16:13:25 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

	Sum toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

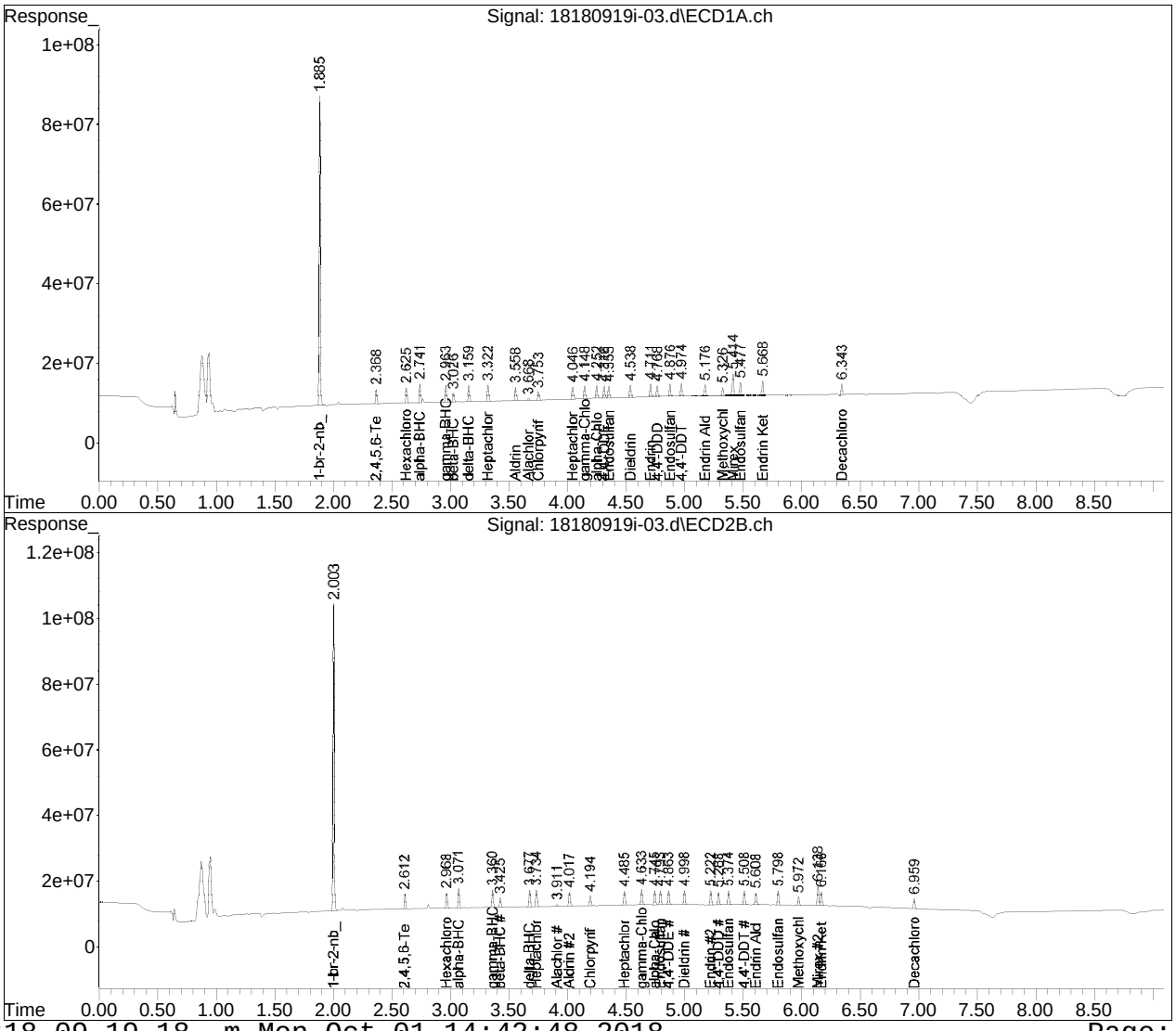
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Sep 2018 6:24 pm
Operator : PEST18:jw
Sample : il2pest,42e,,pp8814
Misc : wg1162772,ical (Sig #1); ical (Sig #2)
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 16:27:54 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Thu Sep 27 16:13:25 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

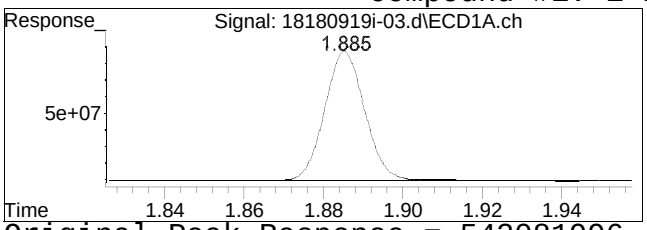


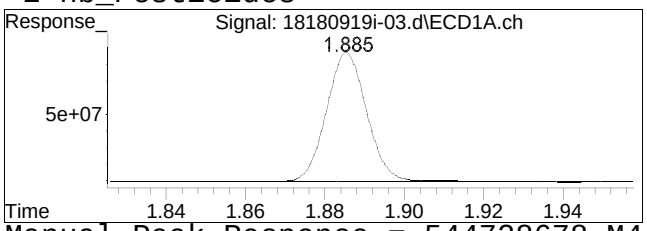
Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-03.d
Date Inj'd : 9/19/2018 6:24 pm
Sample : il2pest,42e,,pp8814

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/27/2018 4:13 pm

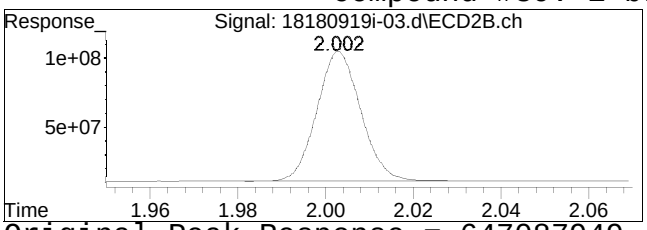
Compound #1: 1-br-2-nb_Pesticides

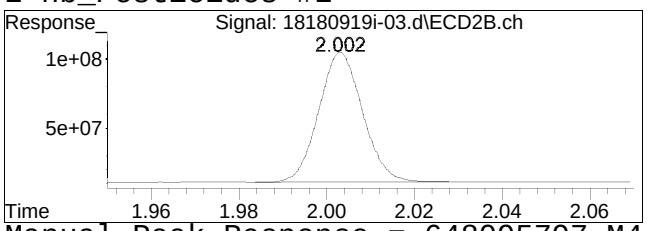




Original Peak Response = 542081996 Manual Peak Response = 544728678 M4
M4 = Poor automated baseline construction.

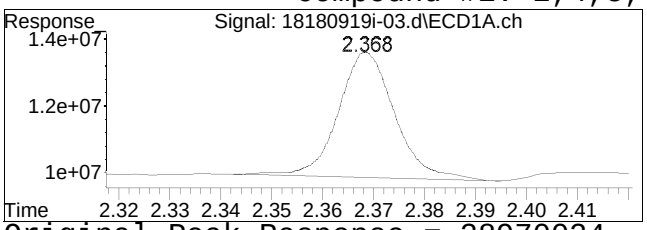
Compound #39: 1-br-2-nb_Pesticides #2

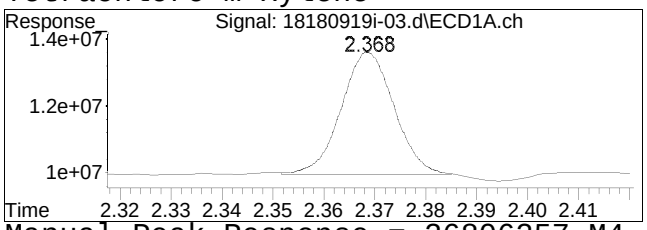




Original Peak Response = 647087949 Manual Peak Response = 648095797 M4
M4 = Poor automated baseline construction.

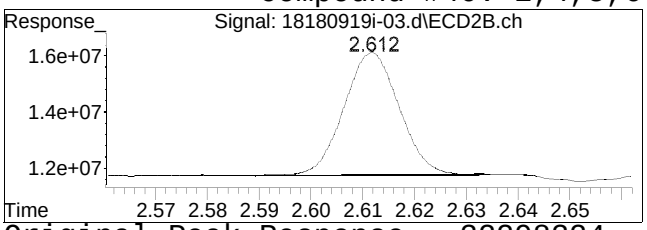
Compound #2: 2,4,5,6-Tetrachloro-m-xylene

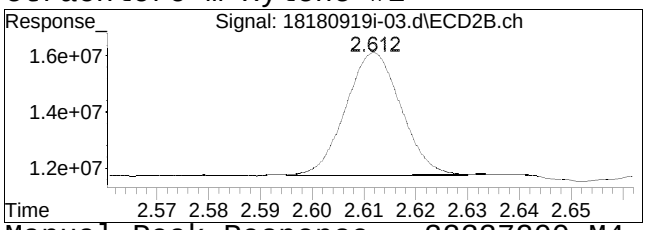




Original Peak Response = 28970024 Manual Peak Response = 26806257 M4
M4 = Poor automated baseline construction.

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2





Original Peak Response = 32298324 Manual Peak Response = 32337200 M4
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
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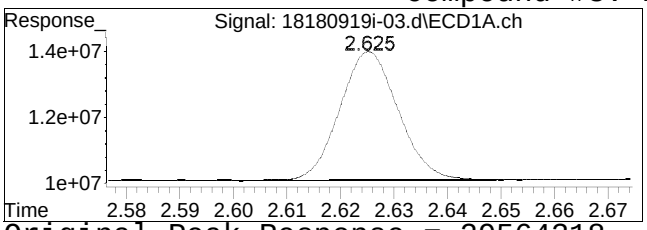
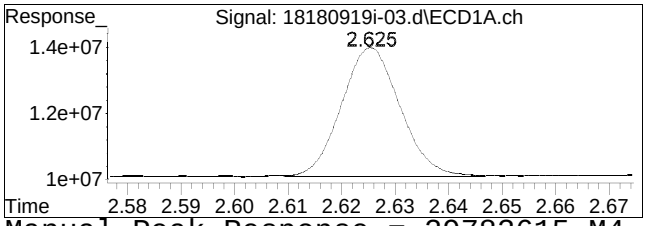
QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/27/2018 4:13 pm

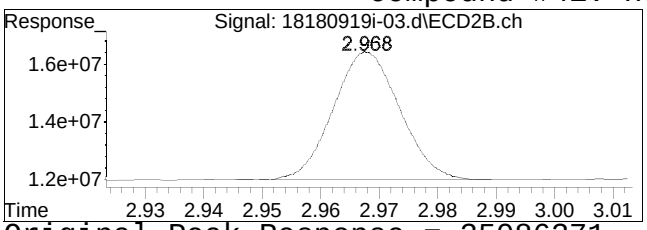
Compound #3: Hexachlorobenzene

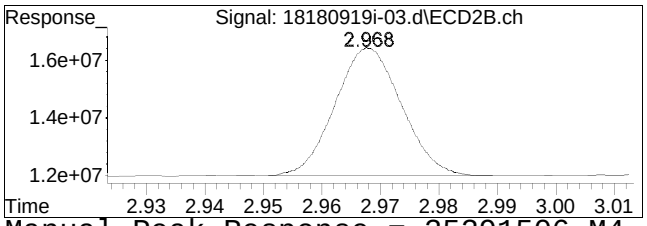




Original Peak Response = 29564318 Manual Peak Response = 29783615 M4
M4 = Poor automated baseline construction.

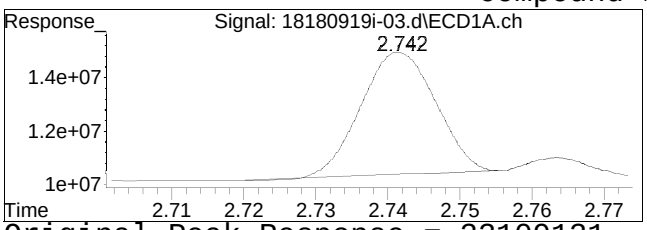
Compound #41: Hexachlorobenzene #2

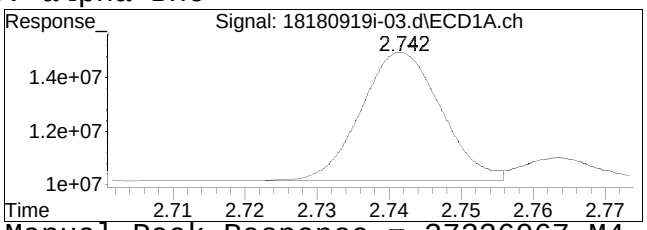




Original Peak Response = 35086371 Manual Peak Response = 35291506 M4
M4 = Poor automated baseline construction.

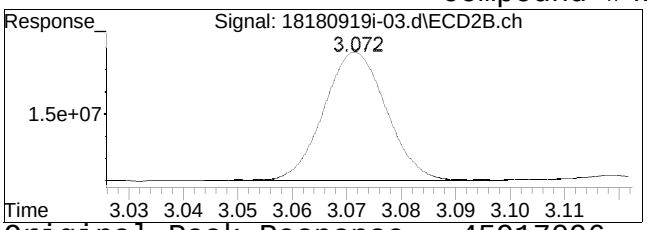
Compound #4: alpha-BHC

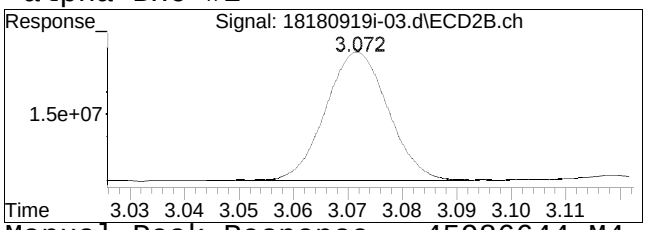




Original Peak Response = 33109131 Manual Peak Response = 37336067 M4
M4 = Poor automated baseline construction.

Compound #42: alpha-BHC #2





Original Peak Response = 45917096 Manual Peak Response = 45986644 M4
M4 = Poor automated baseline construction.

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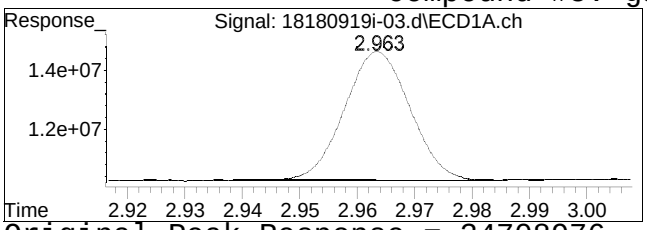
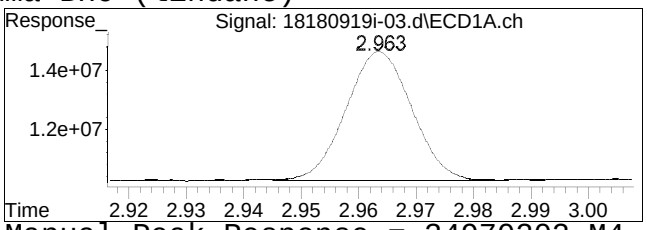
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/27/2018 4:13 pm

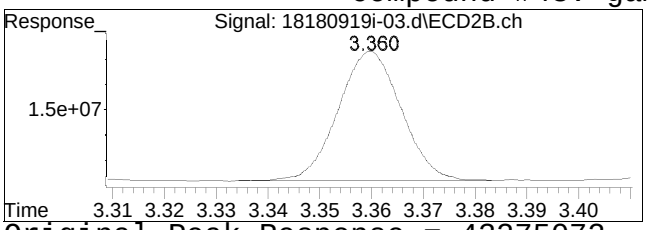
Compound #5: gamma-BHC (lindane)

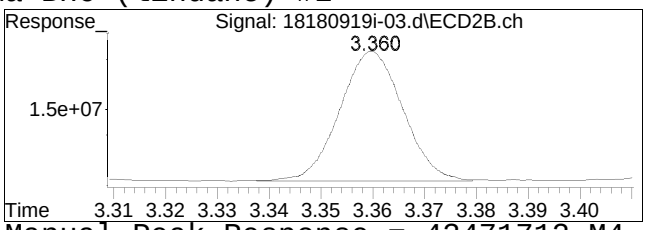




Original Peak Response = 34708976 Manual Peak Response = 34970202 M4
M4 = Poor automated baseline construction.

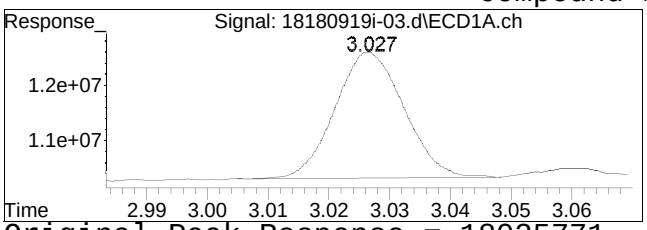
Compound #43: gamma-BHC (lindane) #2

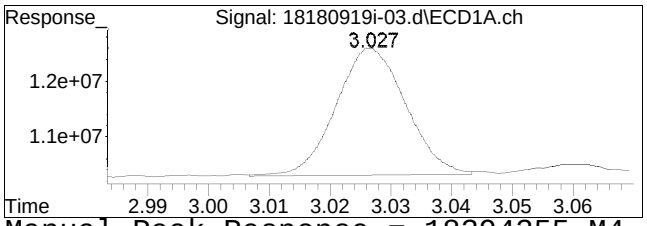




Original Peak Response = 43275072 Manual Peak Response = 43471712 M4
M4 = Poor automated baseline construction.

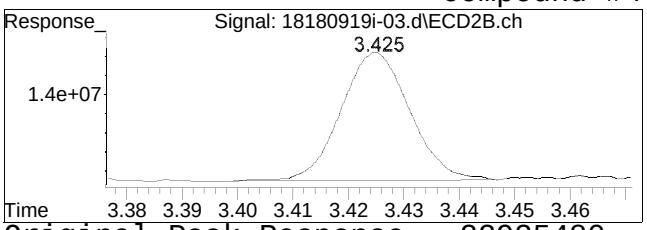
Compound #6: beta-BHC

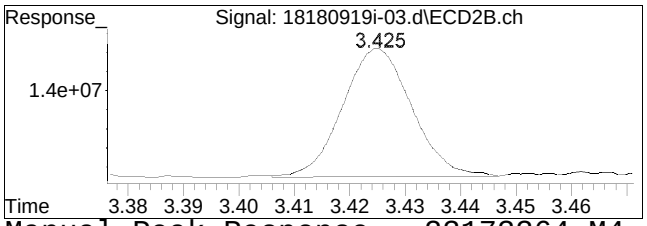




Original Peak Response = 18025771 Manual Peak Response = 18394355 M4
M4 = Poor automated baseline construction.

Compound #44: beta-BHC #2





Original Peak Response = 22935480 Manual Peak Response = 23173364 M4
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
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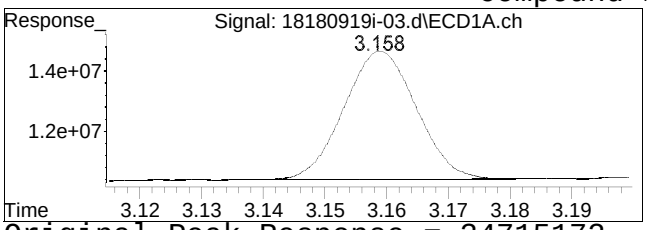
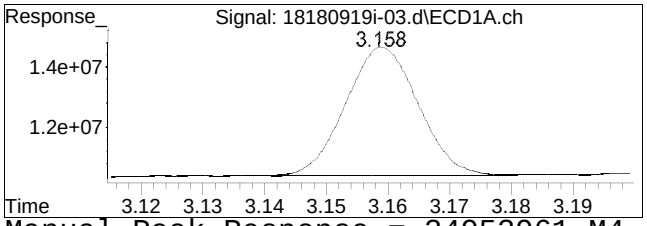
QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/27/2018 4:13 pm

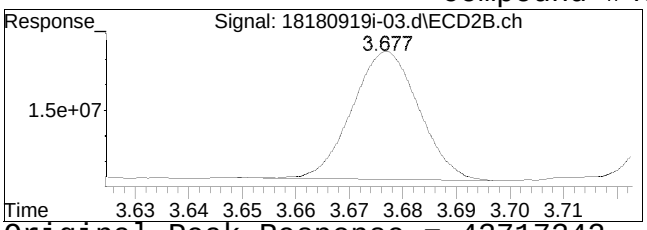
Compound #7: delta-BHC

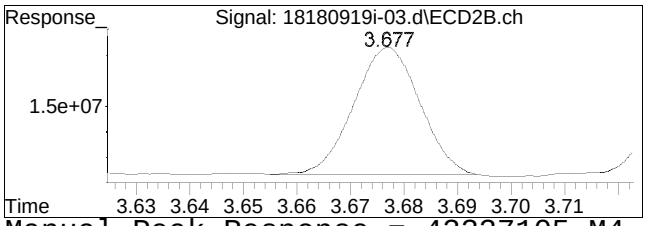




Original Peak Response = 34715172 Manual Peak Response = 34953961 M4
M4 = Poor automated baseline construction.

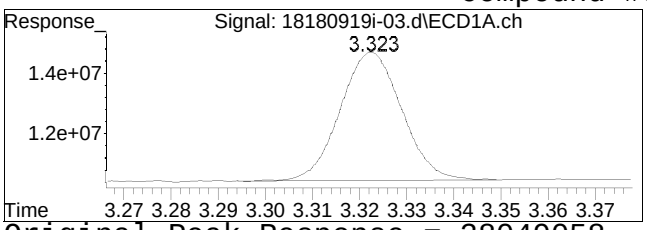
Compound #45: delta-BHC #2

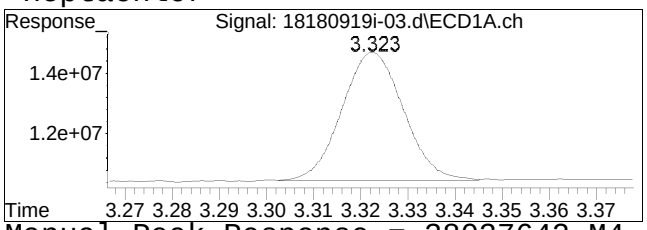




Original Peak Response = 43717342 Manual Peak Response = 43337105 M4
M4 = Poor automated baseline construction.

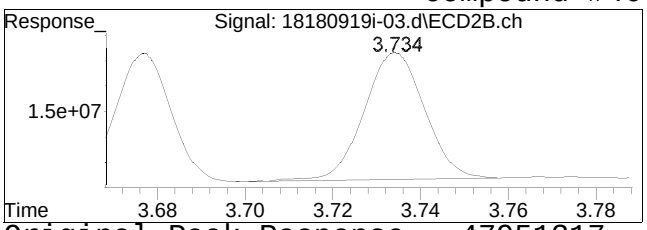
Compound #8: Heptachlor

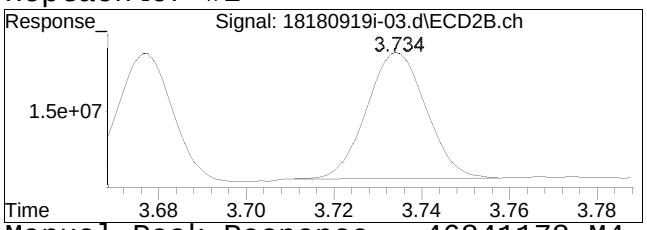




Original Peak Response = 38049058 Manual Peak Response = 38037642 M4
M4 = Poor automated baseline construction.

Compound #46: Heptachlor #2





Original Peak Response = 47951317 Manual Peak Response = 46841178 M4
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

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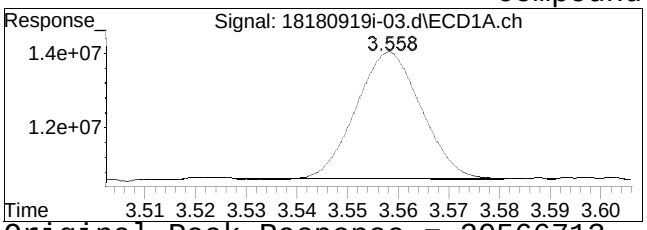
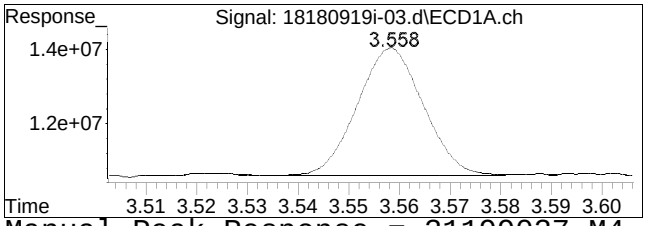
Instrument : Pest 18
Quant Date : 9/27/2018 4:13 pm

Compound #9: Aldrin



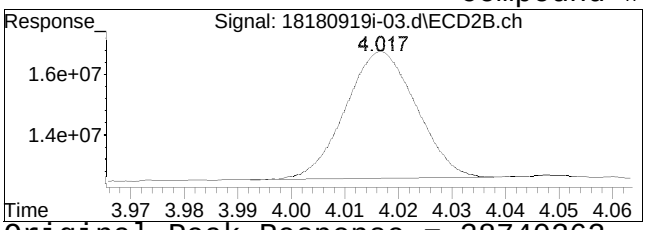
Original Peak Response = 30566713



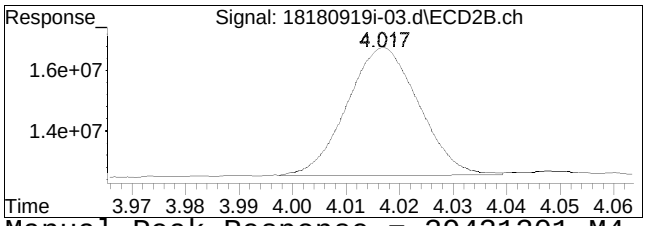
Manual Peak Response = 31199037 M4

M4 = Poor automated baseline construction.

Compound #47: Aldrin #2



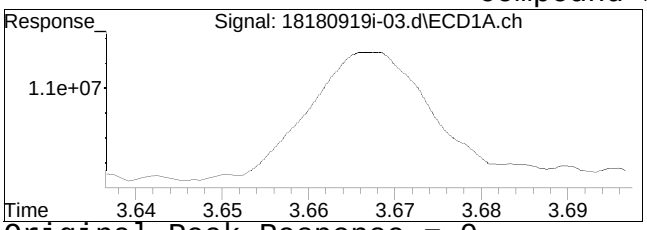
Original Peak Response = 38740362



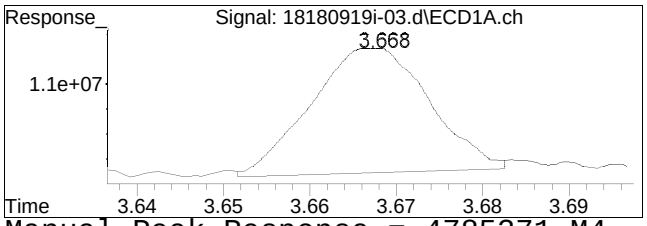
Manual Peak Response = 39431301 M4

M4 = Poor automated baseline construction.

Compound #10: Alachlor



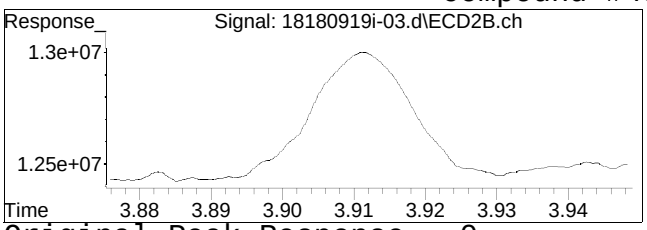
Original Peak Response = 0



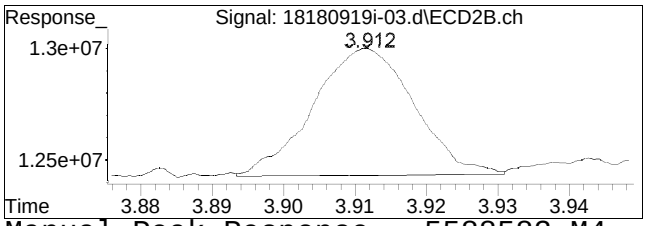
Manual Peak Response = 4785371 M4

M4 = Poor automated baseline construction.

Compound #48: Alachlor #2



Original Peak Response = 0



Manual Peak Response = 5588583 M4

M4 = Poor automated baseline construction.

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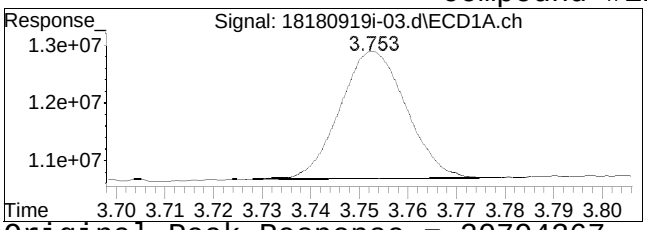
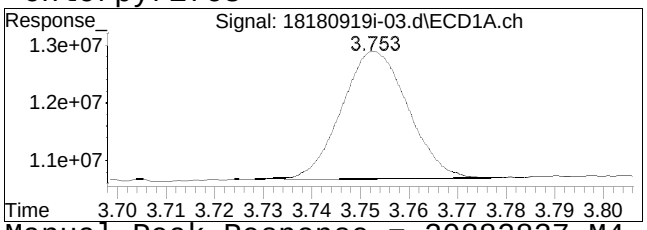
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/27/2018 4:13 pm

Compound #11: Chlorpyrifos



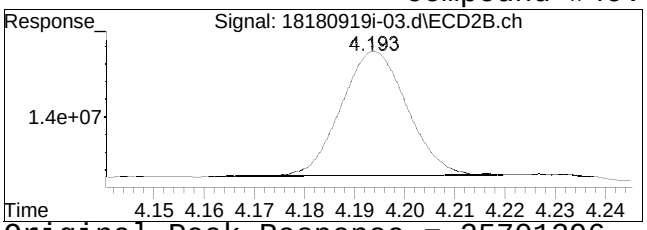
Original Peak Response = 20794367



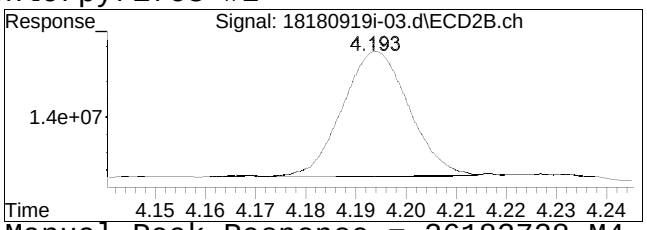
Manual Peak Response = 20882837 M4

M4 = Poor automated baseline construction.

Compound #49: Chlorpyrifos #2



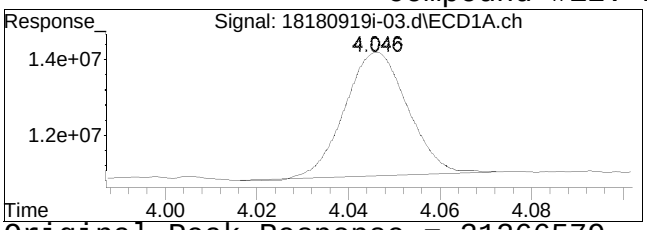
Original Peak Response = 25701296



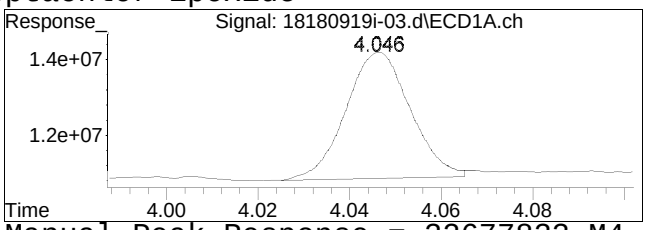
Manual Peak Response = 26183728 M4

M4 = Poor automated baseline construction.

Compound #12: Heptachlor Epoxide



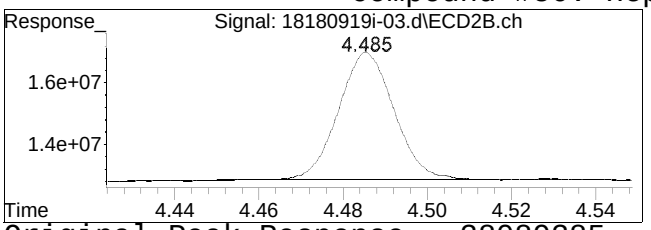
Original Peak Response = 31266579



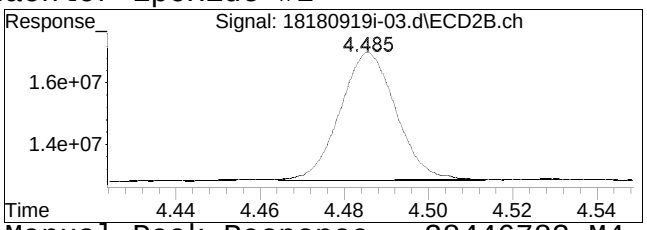
Manual Peak Response = 32677833 M4

M4 = Poor automated baseline construction.

Compound #50: Heptachlor Epoxide #2



Original Peak Response = 38089385



Manual Peak Response = 38446783 M4

M4 = Poor automated baseline construction.

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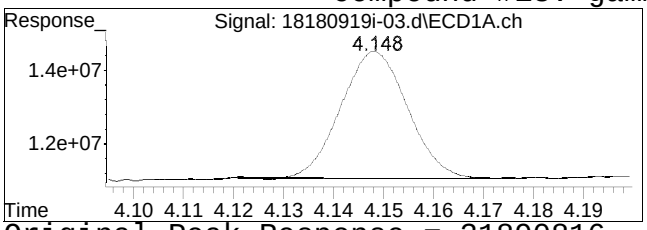
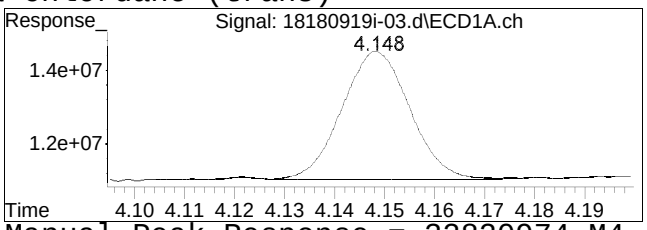
Instrument : Pest 18
Quant Date : 9/27/2018 4:13 pm

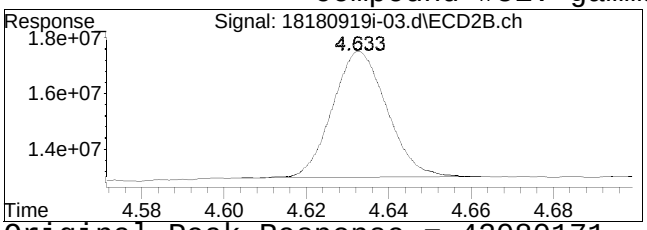
Compound #13: gamma-Chlordane (trans)

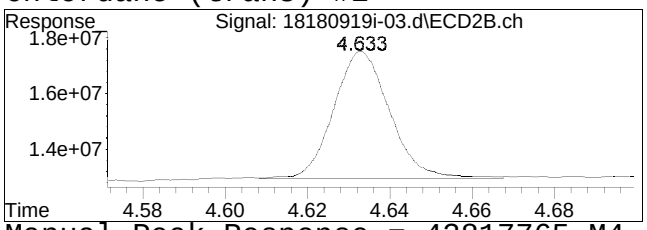




Original Peak Response = 31890816 Manual Peak Response = 32820974 M4
M4 = Poor automated baseline construction.

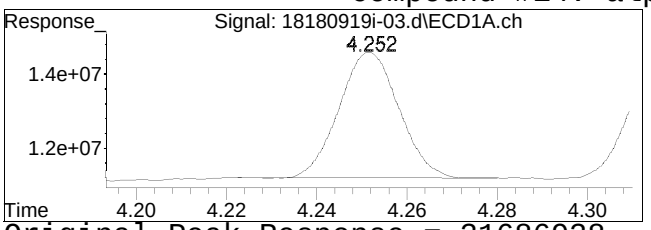
Compound #51: gamma-Chlordane (trans) #2

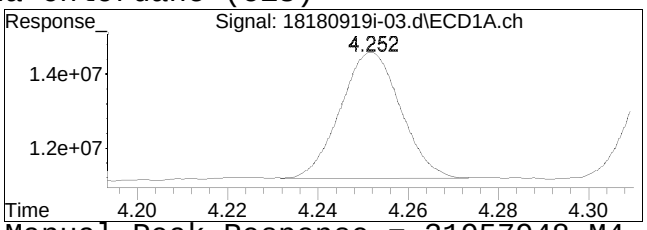




Original Peak Response = 42080171 Manual Peak Response = 43817765 M4
M4 = Poor automated baseline construction.

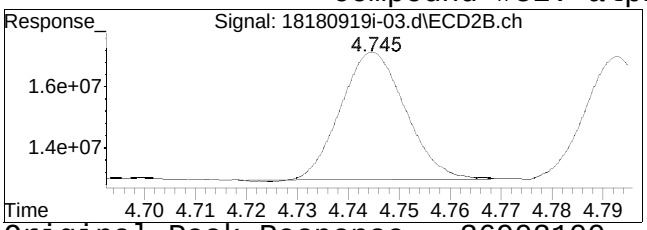
Compound #14: alpha-Chlordane (cis)

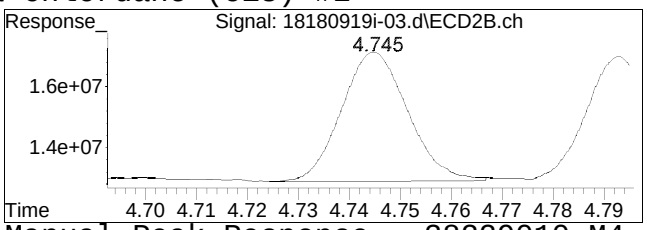




Original Peak Response = 31686938 Manual Peak Response = 31957948 M4
M4 = Poor automated baseline construction.

Compound #52: alpha-Chlordane (cis) #2





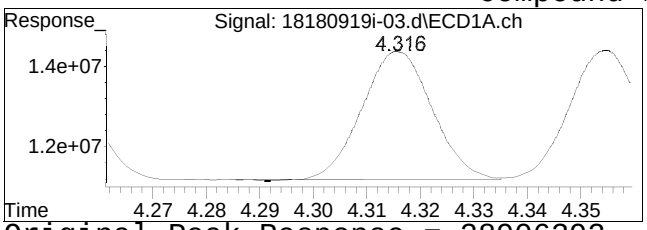
Original Peak Response = 36902100 Manual Peak Response = 38229010 M4
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

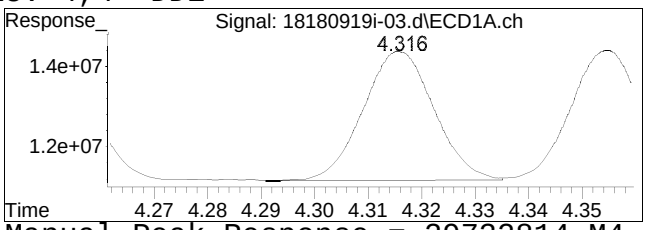
Data Path : I:\Pest18\180919ical\
Data File : 18180919i-03.d
Date Inj'd : 9/19/2018 6:24 pm
Sample : il2pest,42e,,pp8814

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/27/2018 4:13 pm

Compound #15: 4,4'-DDE



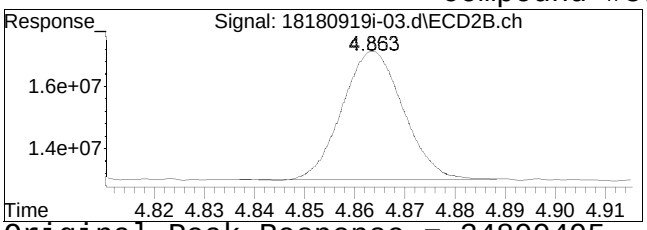
Original Peak Response = 28906392



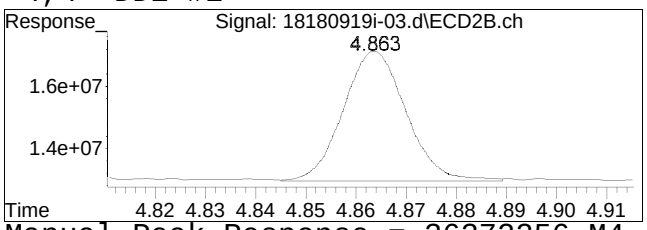
Manual Peak Response = 29732814 M4

M4 = Poor automated baseline construction.

Compound #53: 4,4'-DDE #2



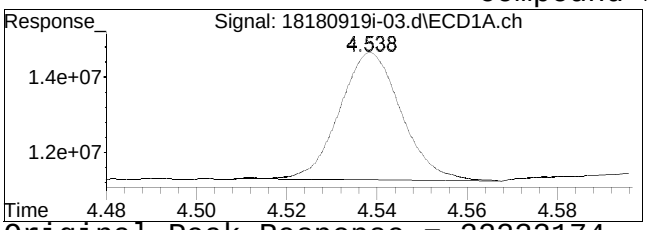
Original Peak Response = 34899495



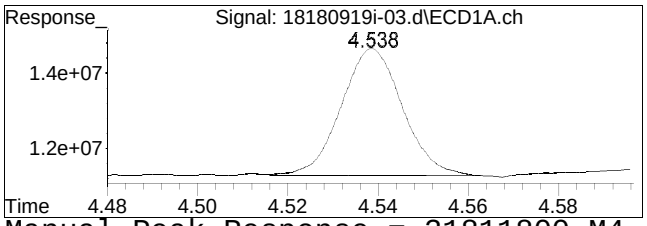
Manual Peak Response = 36372256 M4

M4 = Poor automated baseline construction.

Compound #17: Dieldrin



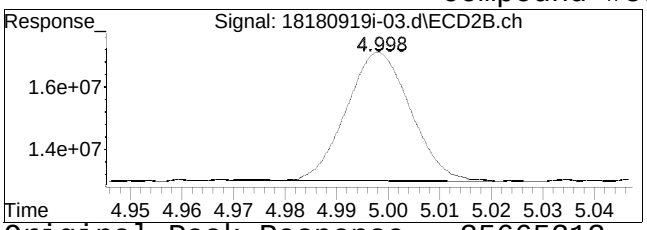
Original Peak Response = 32233174



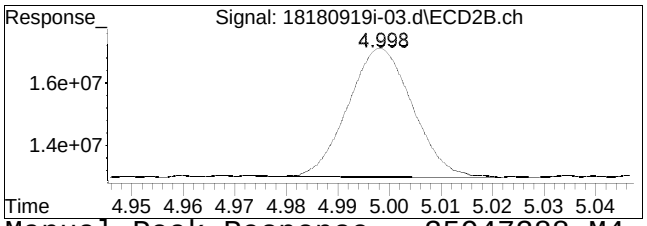
Manual Peak Response = 31811800 M4

M4 = Poor automated baseline construction.

Compound #55: Dieldrin #2



Original Peak Response = 35665213



Manual Peak Response = 35947388 M4

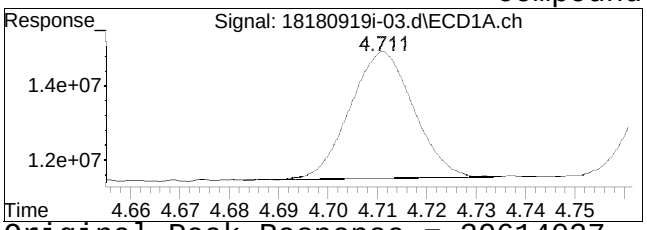
M4 = Poor automated baseline construction.

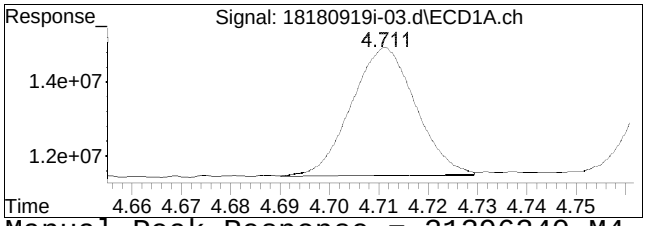
Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-03.d
Date Inj'd : 9/19/2018 6:24 pm
Sample : il2pest,42e,,pp8814

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/27/2018 4:13 pm

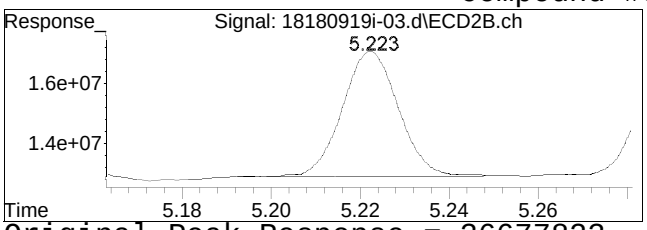
Compound #18: Endrin

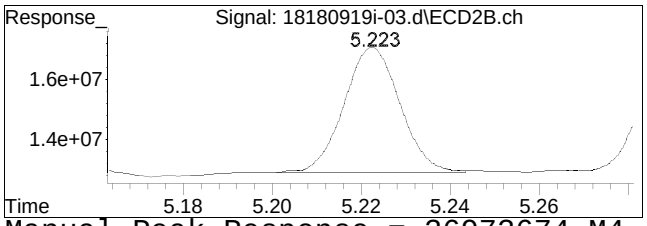




Original Peak Response = 30614037 Manual Peak Response = 31396340 M4
M4 = Poor automated baseline construction.

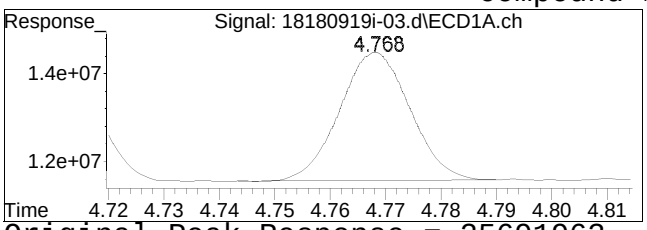
Compound #56: Endrin #2

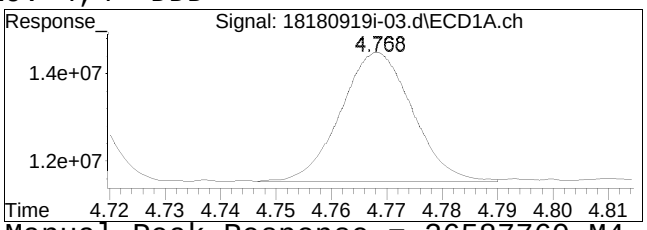




Original Peak Response = 36677823 Manual Peak Response = 36973674 M4
M4 = Poor automated baseline construction.

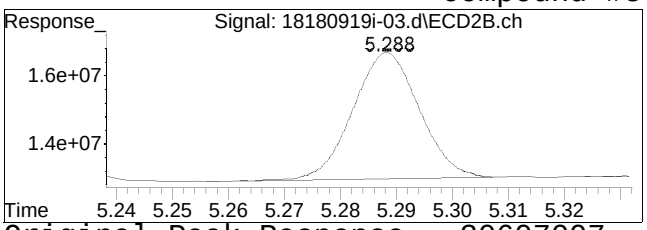
Compound #19: 4,4'-DDD

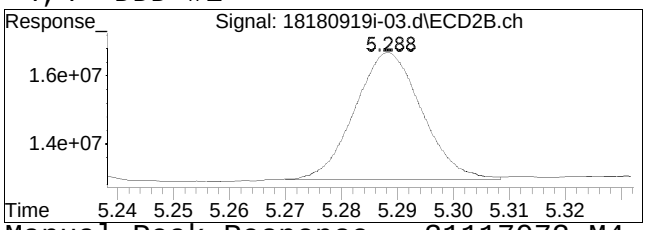




Original Peak Response = 25691963 Manual Peak Response = 26587760 M4
M4 = Poor automated baseline construction.

Compound #57: 4,4'-DDD #2





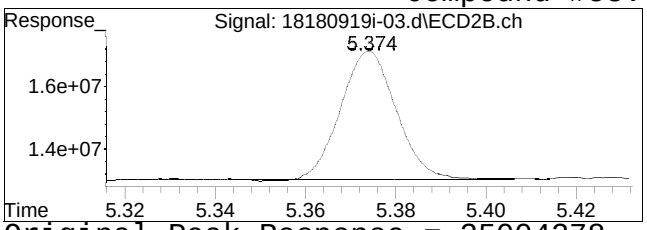
Original Peak Response = 30607007 Manual Peak Response = 31117072 M4
M4 = Poor automated baseline construction.

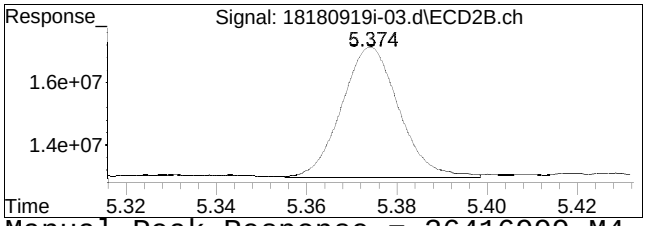
Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-03.d
Date Inj'd : 9/19/2018 6:24 pm
Sample : il2pest,42e,,pp8814

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/27/2018 4:13 pm

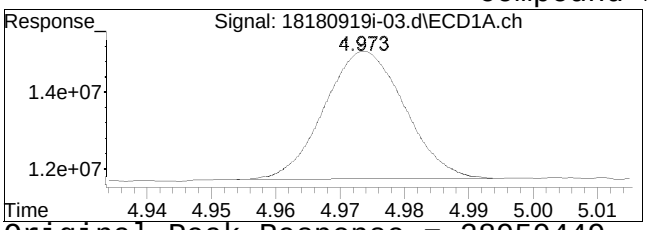
Compound #58: Endosulfan II #2

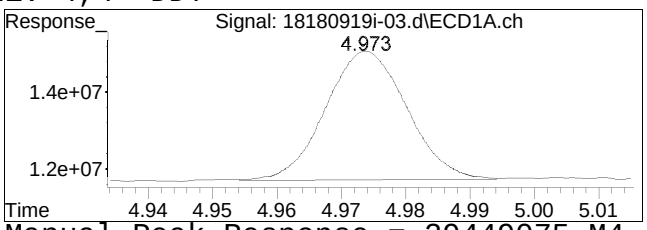




Original Peak Response = 35004278 Manual Peak Response = 36416999 M4
M4 = Poor automated baseline construction.

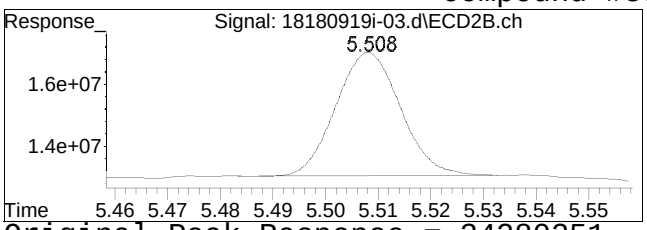
Compound #21: 4,4'-DDT

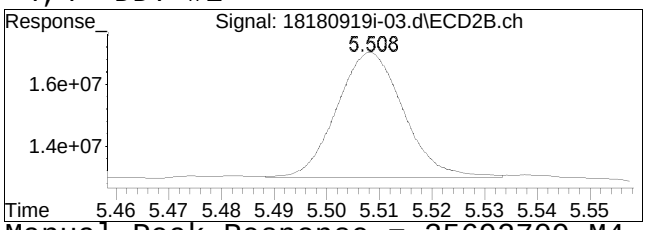




Original Peak Response = 28959449 Manual Peak Response = 29449075 M4
M4 = Poor automated baseline construction.

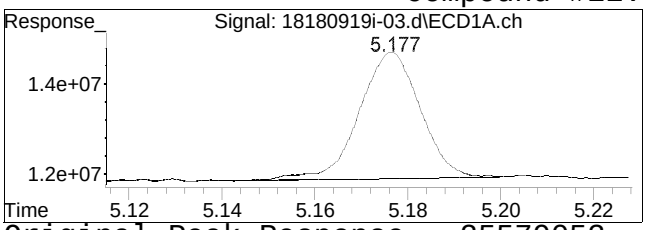
Compound #59: 4,4'-DDT #2

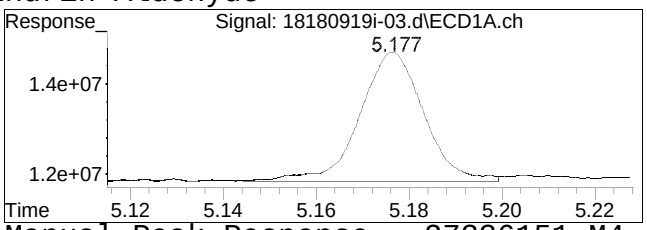




Original Peak Response = 34280251 Manual Peak Response = 35692709 M4
M4 = Poor automated baseline construction.

Compound #22: Endrin Aldehyde





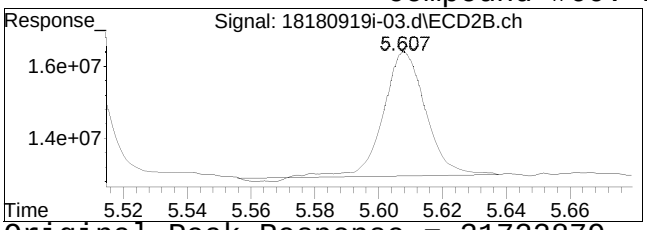
Original Peak Response = 25579053 Manual Peak Response = 27336151 M4
M4 = Poor automated baseline construction.

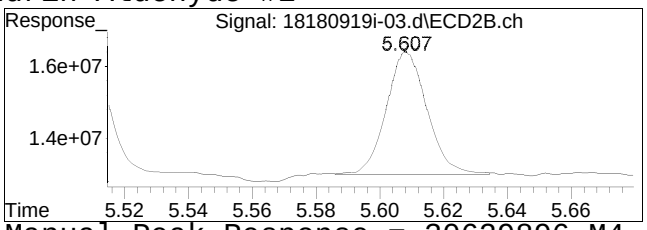
Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-03.d
Date Inj'd : 9/19/2018 6:24 pm
Sample : il2pest,42e,,pp8814

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/27/2018 4:13 pm

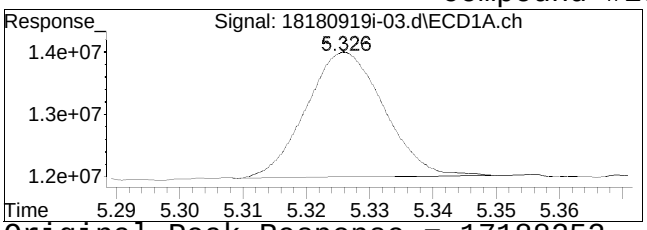
Compound #60: Endrin Aldehyde #2

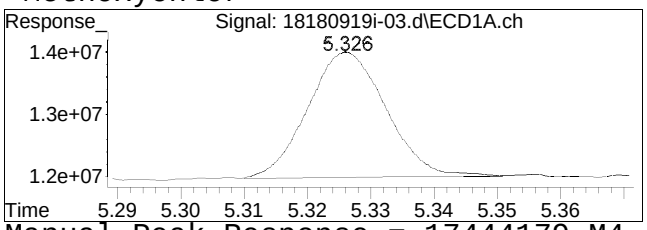




Original Peak Response = 31722879 Manual Peak Response = 30629896 M4
M4 = Poor automated baseline construction.

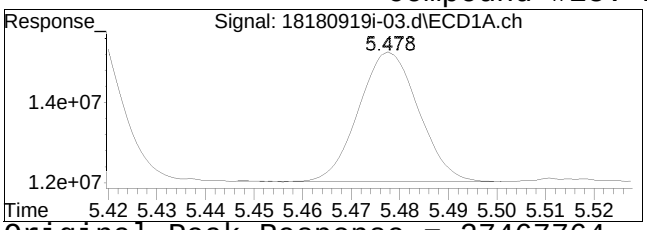
Compound #23: Methoxychlor

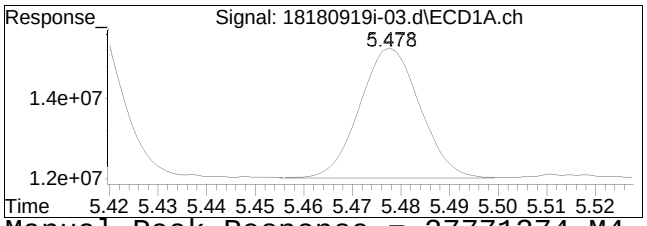




Original Peak Response = 17188252 Manual Peak Response = 17444179 M4
M4 = Poor automated baseline construction.

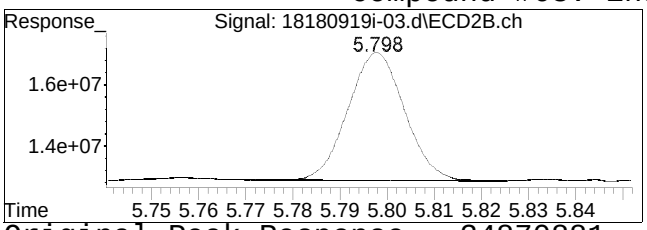
Compound #25: Endosulfan Sulfate

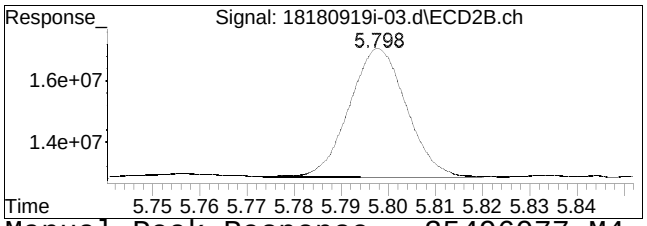




Original Peak Response = 27467764 Manual Peak Response = 27771374 M4
M4 = Poor automated baseline construction.

Compound #63: Endosulfan Sulfate #2





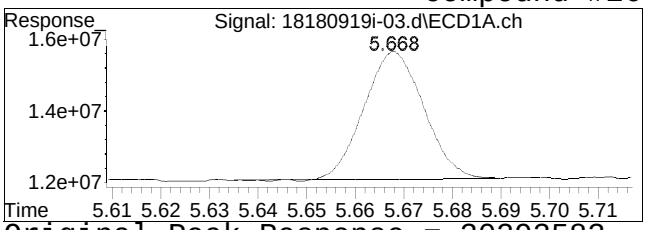
Original Peak Response = 34870881 Manual Peak Response = 35496077 M4
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

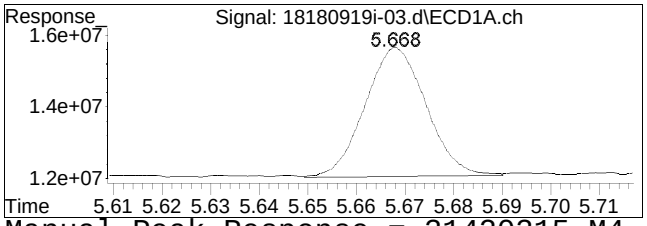
Data Path : I:\Pest18\180919ical\
Data File : 18180919i-03.d
Date Inj'd : 9/19/2018 6:24 pm
Sample : il2pest,42e,,pp8814

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/27/2018 4:13 pm

Compound #26: Endrin Ketone



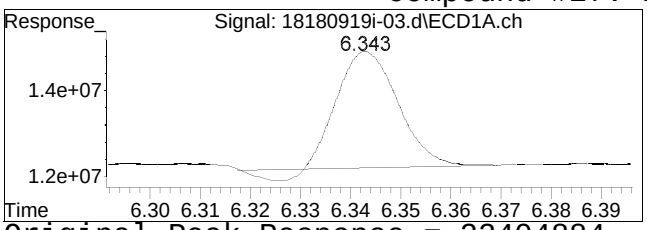
Original Peak Response = 30293583



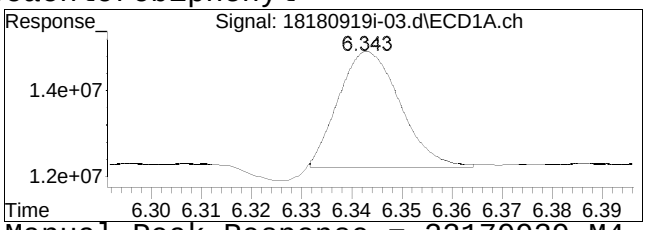
Manual Peak Response = 31420315 M4

M4 = Poor automated baseline construction.

Compound #27: Decachlorobiphenyl



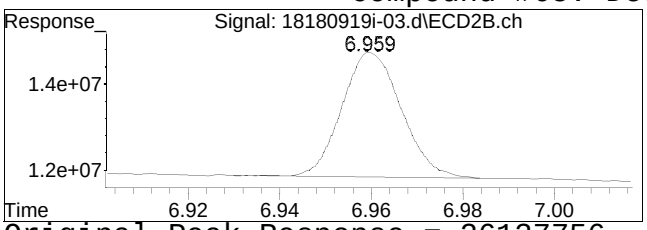
Original Peak Response = 22404884



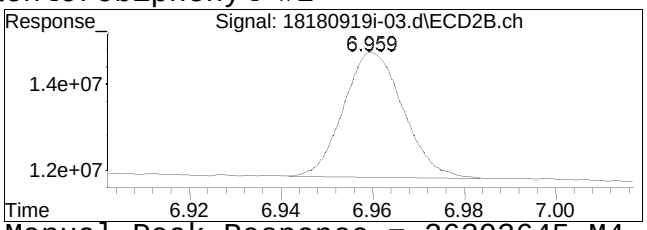
Manual Peak Response = 23170939 M4

M4 = Poor automated baseline construction.

Compound #65: Decachlorobiphenyl #2



Original Peak Response = 26137756



Manual Peak Response = 26303645 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Sep 2018 6:36 pm
Operator : PEST18:jw
Sample : il3pest,42e,,pp8815
Misc : wg1162772,ical (Sig #1); ical (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 16:13:18 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Thu Sep 27 16:03:46 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb...	1.883	2.001	503.8E6	602.2E6	25.000M4	25.000M4
28) i	1-br-2-nb...	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb...	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-T...	2.367	2.611	55243572	66298948	2.565M4	2.565M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		5.13%#	5.13%#
27) s	Decachlor...	6.341	6.956	51578024	55564437	2.618M4	2.660M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		5.24%#	5.32%#
	Target Compounds						
3)	Hexachlor...	2.624	2.967	59948095	72233910	2.725M4	2.764M4
4)	alpha-BHC	2.740	3.071	78168091	95853058	2.401M4	2.413M4
5)	gamma-BHC...	2.962	3.359	73084270	89888980	2.444M4	2.471M4
6)	beta-BHC	3.025	3.424	37470742	46009415	2.651M4	2.623M4
7)	delta-BHC	3.158	3.676	73413079	90785295	2.410M4	2.451M4
8)	Heptachlor	3.321	3.733	77444415	98952299	2.553M4	2.643M4
9)	Aldrin	3.557	4.016	64206950	81793679	2.422M4	2.503M4
10)	Alachlor	3.666	3.910	10058541	11152372	2.632M2	2.631M2
11)	Chlorpyrifos	3.752	4.193	42542161	52373105	2.694M4	2.720M4

Quantitation Report (QT Reviewed)

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Sep 2018 6:36 pm
Operator : PEST18:jw
Sample : il3pest,42e,,pp8815
Misc : wg1162772,ical (Sig #1); ical (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 16:13:18 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Thu Sep 27 16:03:46 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)	Heptachlo...	4.045	4.484	66328349	77807988	2.634M4	2.579M4
13)	gamma-Chl...	4.147	4.632	67704506	85422334	2.495M4	2.561M4
14)	alpha-Chl...	4.250	4.744	66306165	78837956	2.508M4	2.553M4
15)	4,4'-DDE	4.314	4.863	61462661	73380697	2.470M4	2.445M4
16)	Endosulfan I	4.354	4.792	61597193	74795945	2.500	2.541M4
17)	Dieldrin	4.537	4.997	63469659	74355944	2.467M4	2.456M4
18)	Endrin	4.710	5.222	64667514	77251258	2.471M4	2.542M4
19)	4,4'-DDD	4.767	5.288	53933876	64863633	2.444M4	2.475M4
20)	Endosulfa...	4.876	5.373	61258070	72350034	2.532M4	2.543M4
21)	4,4'-DDT	4.973	5.507	60494166	71738101	2.484M4	2.529M4
22)	Endrin Al...	5.175	5.607	54482627	61165819	2.596M4	2.531M4
23)	Methoxychlor	5.326	5.971	35558280	39718126	2.635	2.665M4
24)	Mirex	5.414	6.137	76122938	82150438	3.791M4	3.827M4
25)	Endosulfa...	5.477	5.797	59686286	70539109	2.494M4	2.481M4
26)	Endrin Ke...	5.667	6.165	64285671	70543882	2.504	2.509
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Sep 2018 6:36 pm
Operator : PEST18:jw
Sample : il3pest,42e,,pp8815
Misc : wg1162772,ical (Sig #1); ical (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 16:13:18 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Thu Sep 27 16:03:46 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

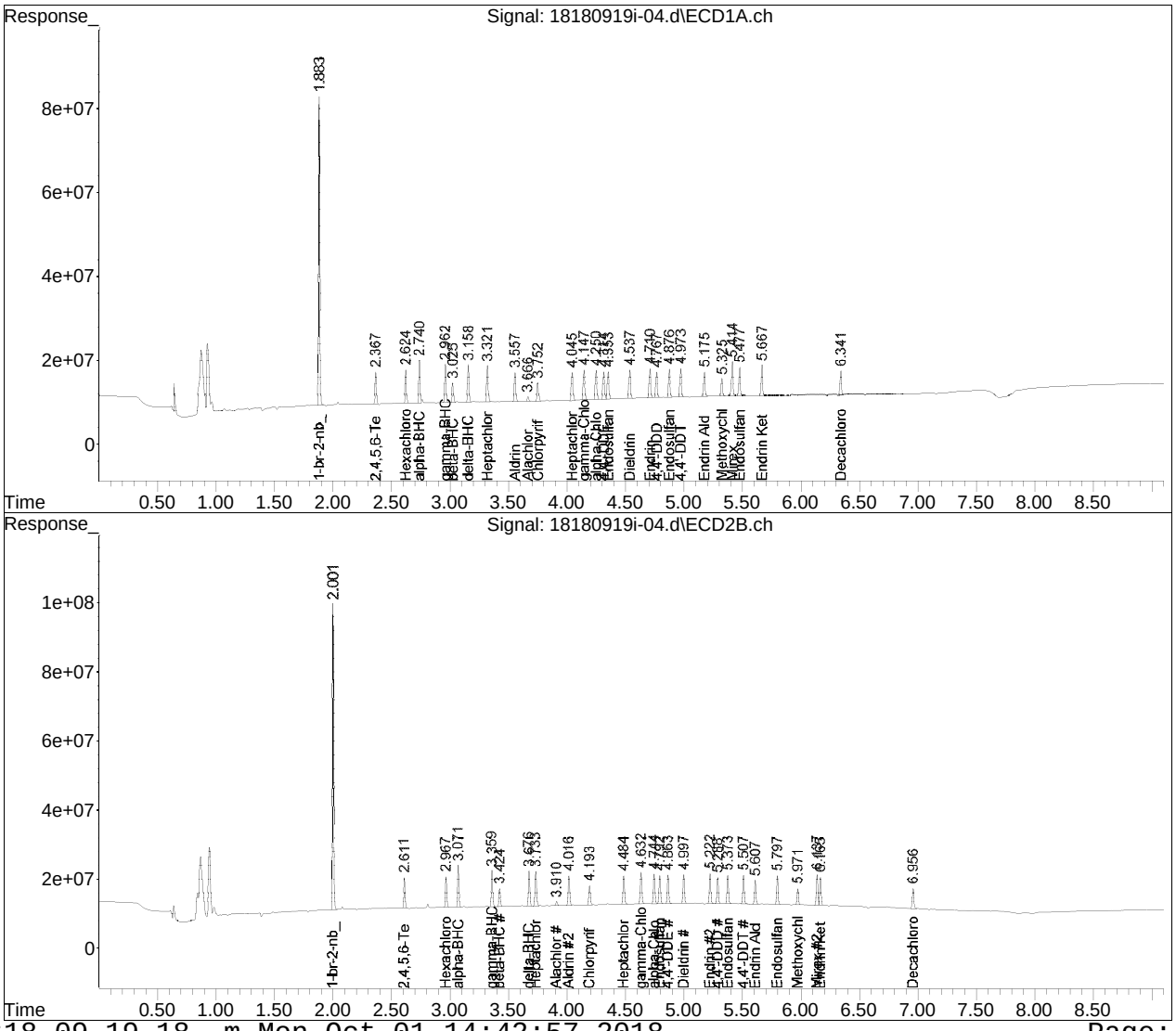
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Sep 2018 6:36 pm
Operator : PEST18:jw
Sample : il3pest,42e,,pp8815
Misc : wg1162772,ical (Sig #1); ical (Sig #2)
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 16:13:18 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Thu Sep 27 16:03:46 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

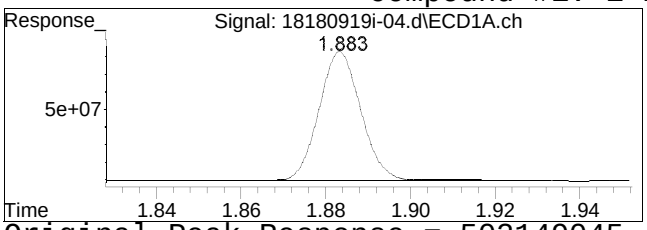


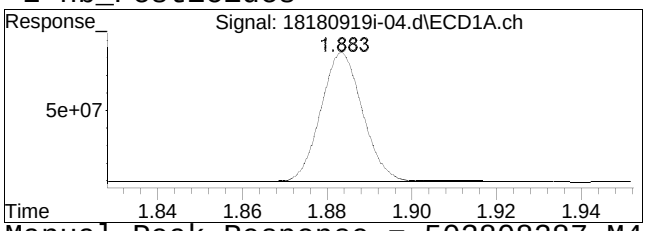
Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-04.d
Date Inj'd : 9/19/2018 6:36 pm
Sample : il3pest,42e,,pp8815

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/27/2018 4:04 pm

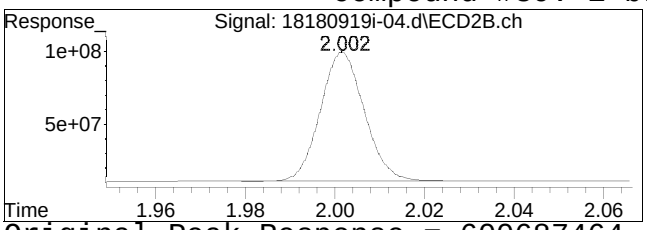
Compound #1: 1-br-2-nb_Pesticides

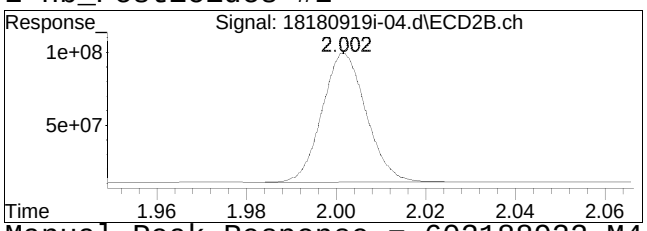




Original Peak Response = 502149045 Manual Peak Response = 503808287 M4
M4 = Poor automated baseline construction.

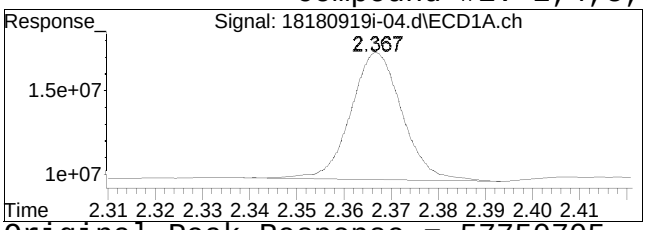
Compound #39: 1-br-2-nb_Pesticides #2

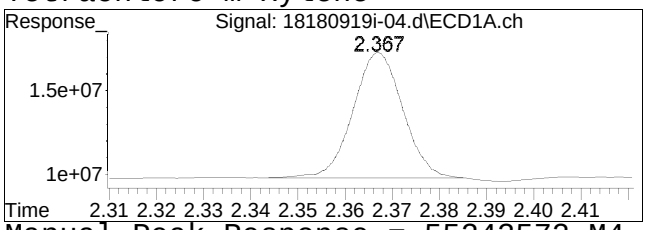




Original Peak Response = 600687464 Manual Peak Response = 602188922 M4
M4 = Poor automated baseline construction.

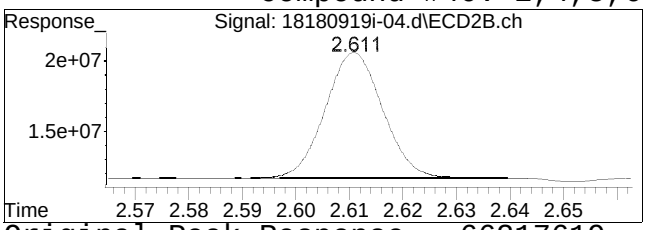
Compound #2: 2,4,5,6-Tetrachloro-m-xylene

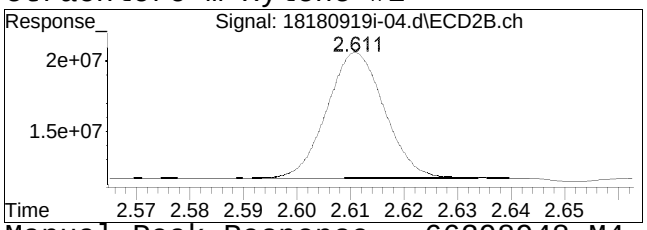




Original Peak Response = 57750705 Manual Peak Response = 55243572 M4
M4 = Poor automated baseline construction.

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2





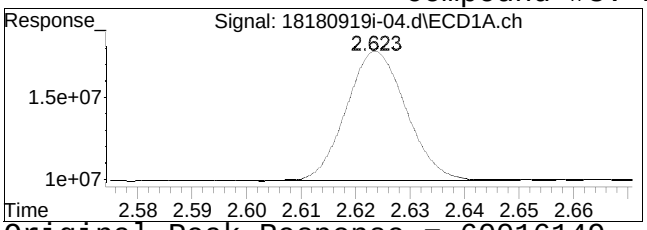
Original Peak Response = 66217619 Manual Peak Response = 66298948 M4
M4 = Poor automated baseline construction.

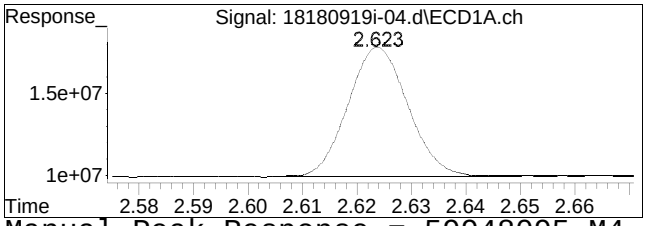
Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-04.d
Date Inj'd : 9/19/2018 6:36 pm
Sample : il3pest,42e,,pp8815

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/27/2018 4:04 pm

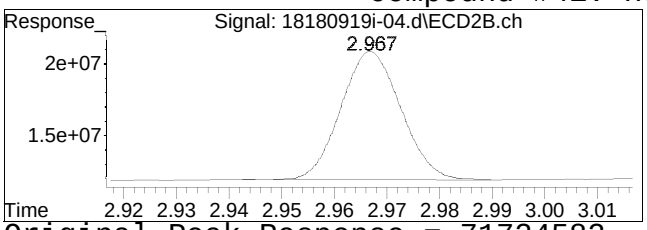
Compound #3: Hexachlorobenzene

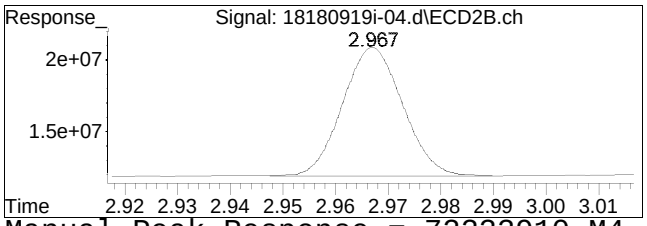




Original Peak Response = 60016149 Manual Peak Response = 59948095 M4
M4 = Poor automated baseline construction.

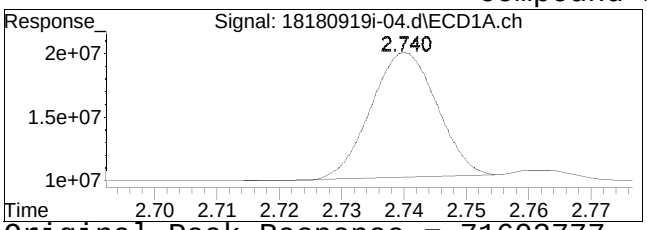
Compound #41: Hexachlorobenzene #2

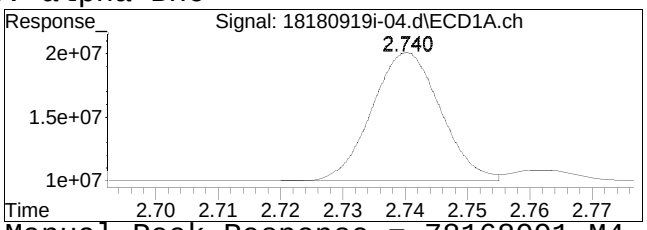




Original Peak Response = 71724582 Manual Peak Response = 72233910 M4
M4 = Poor automated baseline construction.

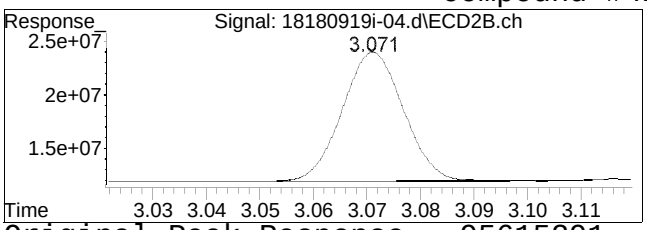
Compound #4: alpha-BHC

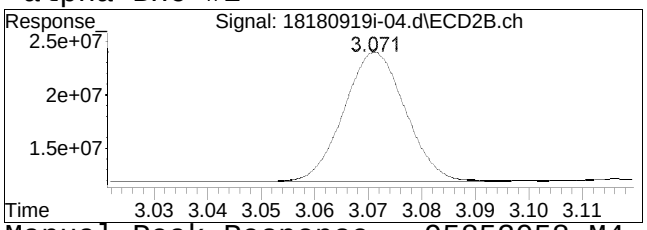




Original Peak Response = 71603777 Manual Peak Response = 78168091 M4
M4 = Poor automated baseline construction.

Compound #42: alpha-BHC #2





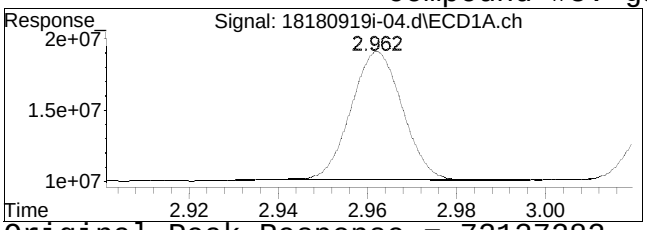
Original Peak Response = 95615291 Manual Peak Response = 95853058 M4
M4 = Poor automated baseline construction.

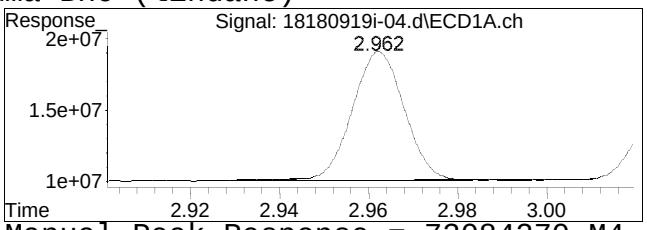
Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-04.d
Date Inj'd : 9/19/2018 6:36 pm
Sample : il3pest,42e,,pp8815

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/27/2018 4:04 pm

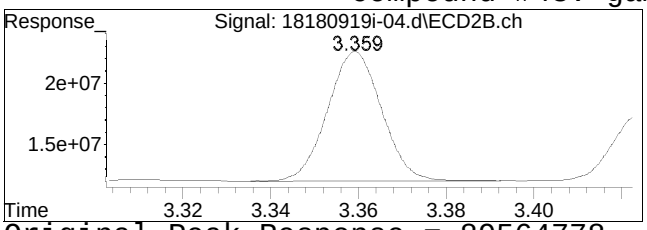
Compound #5: gamma-BHC (lindane)

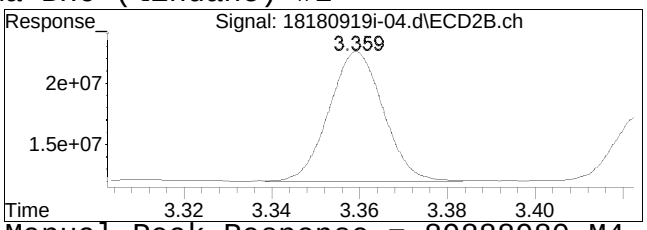




Original Peak Response = 72137282 Manual Peak Response = 73084270 M4
M4 = Poor automated baseline construction.

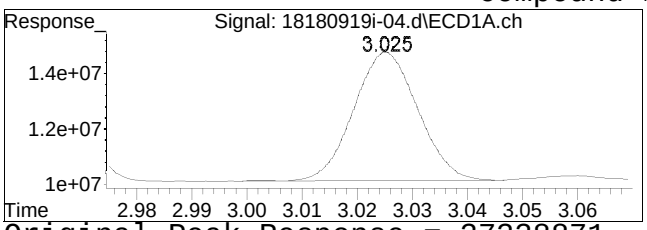
Compound #43: gamma-BHC (lindane) #2

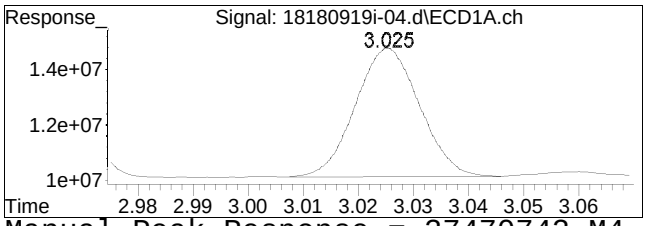




Original Peak Response = 89564778 Manual Peak Response = 89888980 M4
M4 = Poor automated baseline construction.

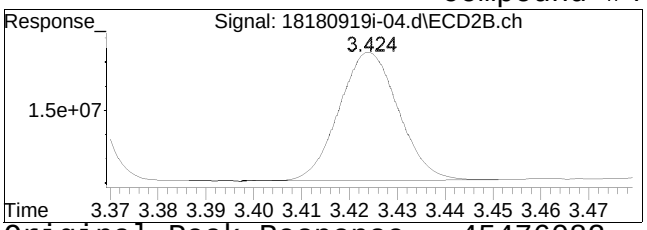
Compound #6: beta-BHC

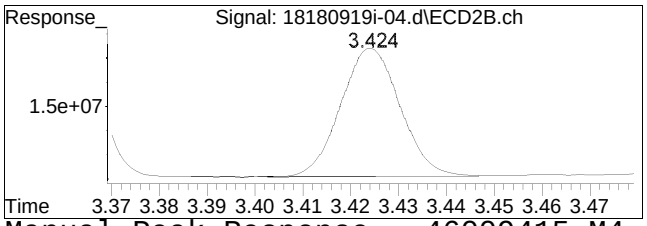




Original Peak Response = 37338871 Manual Peak Response = 37470742 M4
M4 = Poor automated baseline construction.

Compound #44: beta-BHC #2





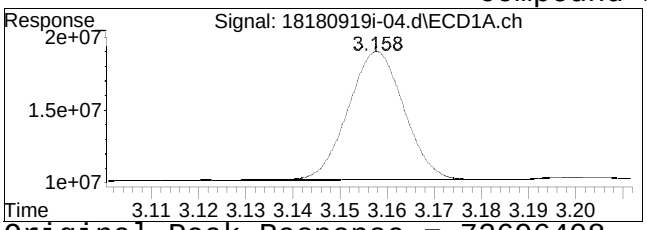
Original Peak Response = 45476082 Manual Peak Response = 46009415 M4
M4 = Poor automated baseline construction.

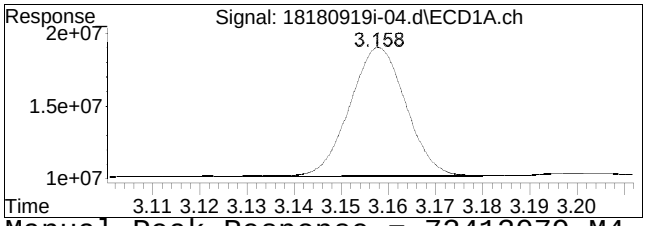
Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-04.d
Date Inj'd : 9/19/2018 6:36 pm
Sample : il3pest,42e,,pp8815

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/27/2018 4:04 pm

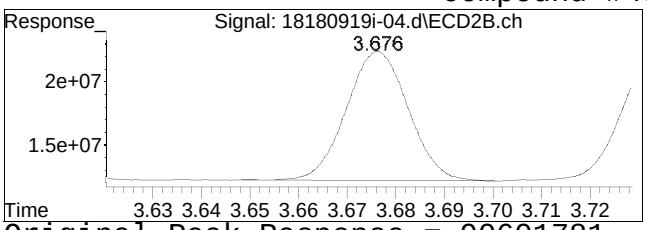
Compound #7: delta-BHC

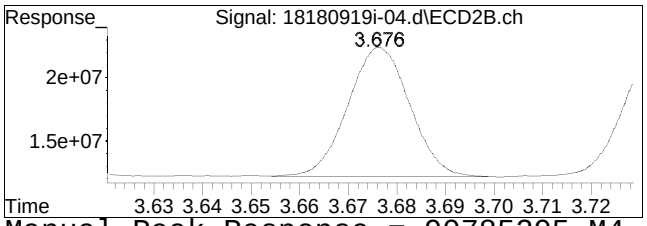




Original Peak Response = 72696408 Manual Peak Response = 73413079 M4
M4 = Poor automated baseline construction.

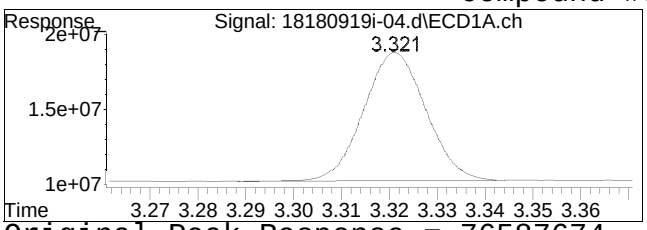
Compound #45: delta-BHC #2

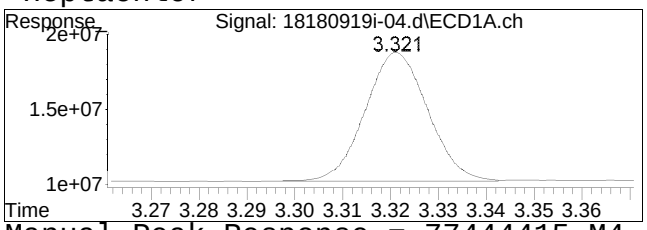




Original Peak Response = 90601781 Manual Peak Response = 90785295 M4
M4 = Poor automated baseline construction.

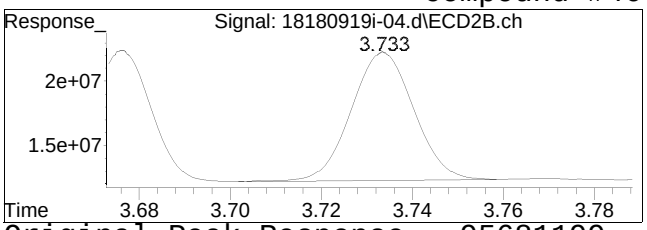
Compound #8: Heptachlor

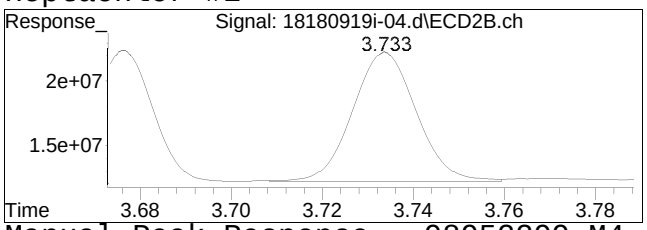




Original Peak Response = 76587674 Manual Peak Response = 77444415 M4
M4 = Poor automated baseline construction.

Compound #46: Heptachlor #2





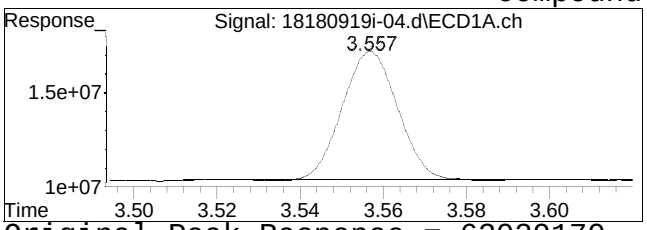
Original Peak Response = 95681199 Manual Peak Response = 98952299 M4
M4 = Poor automated baseline construction.

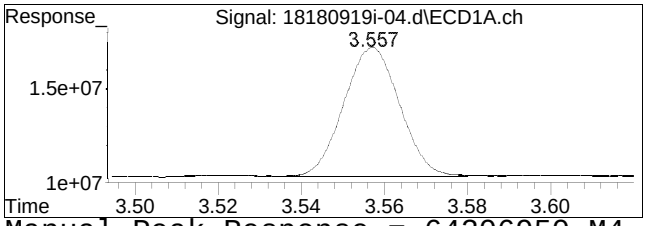
Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-04.d
Date Inj'd : 9/19/2018 6:36 pm
Sample : il3pest,42e,,pp8815

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/27/2018 4:04 pm

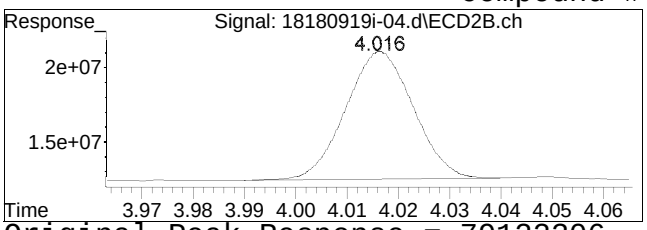
Compound #9: Aldrin

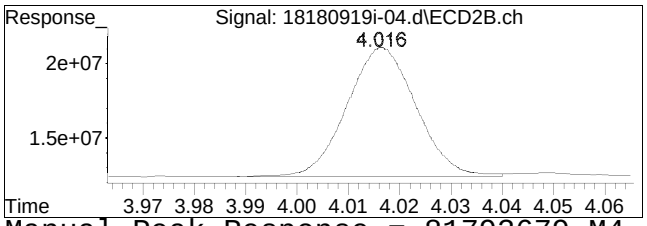




Original Peak Response = 63029170 Manual Peak Response = 64206950 M4
M4 = Poor automated baseline construction.

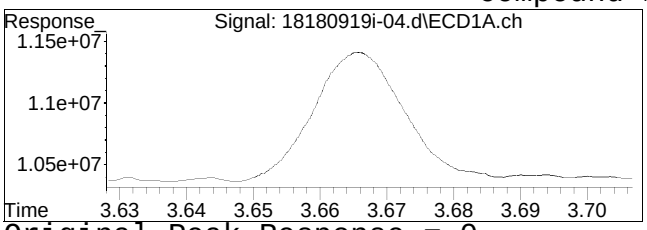
Compound #47: Aldrin #2

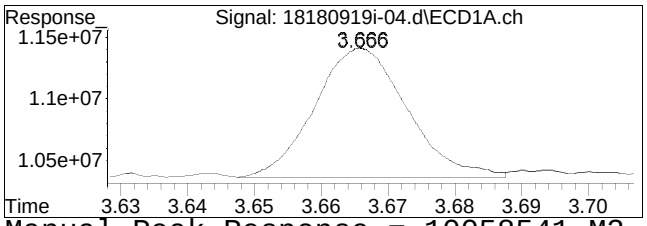




Original Peak Response = 79122306 Manual Peak Response = 81793679 M4
M4 = Poor automated baseline construction.

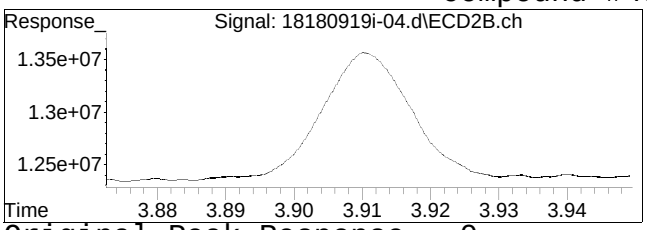
Compound #10: Alachlor

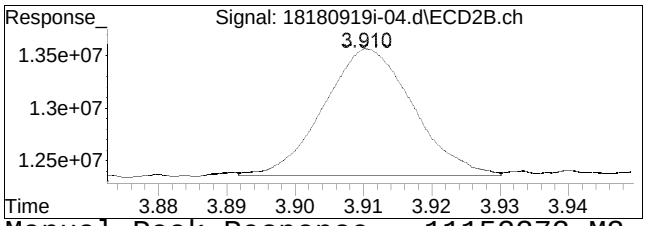




Original Peak Response = 0 Manual Peak Response = 10058541 M2
M2 = Peak not found by automatic integration algorithm.

Compound #48: Alachlor #2





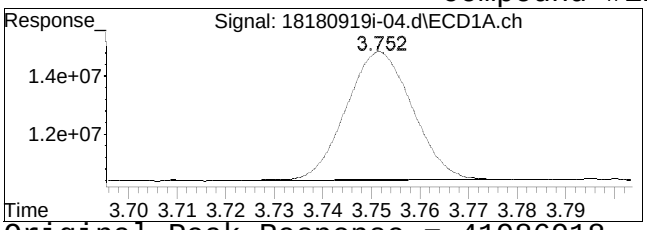
Original Peak Response = 0 Manual Peak Response = 11152372 M2
M2 = Peak not found by automatic integration algorithm.

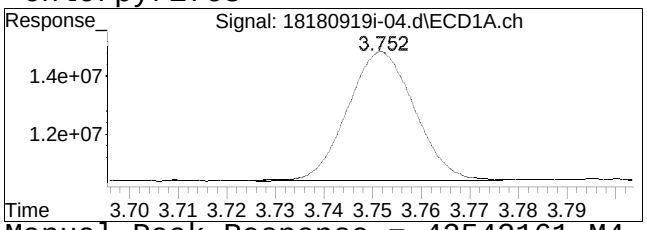
Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-04.d
Date Inj'd : 9/19/2018 6:36 pm
Sample : il3pest,42e,,pp8815

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/27/2018 4:04 pm

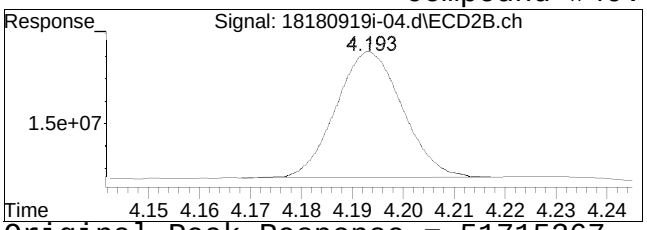
Compound #11: Chlorpyrifos

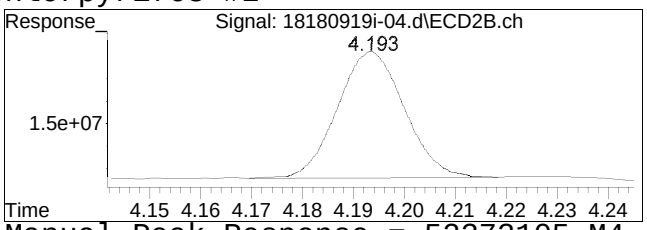




Original Peak Response = 41986918 Manual Peak Response = 42542161 M4
M4 = Poor automated baseline construction.

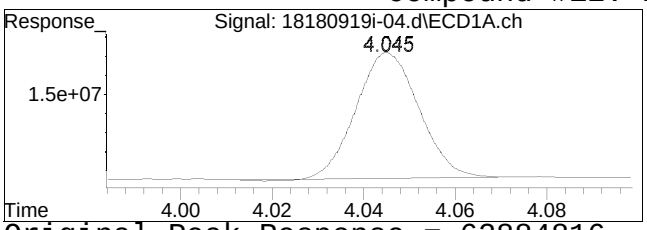
Compound #49: Chlorpyrifos #2

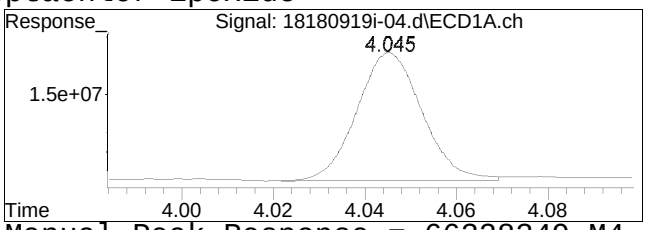




Original Peak Response = 51715367 Manual Peak Response = 52373105 M4
M4 = Poor automated baseline construction.

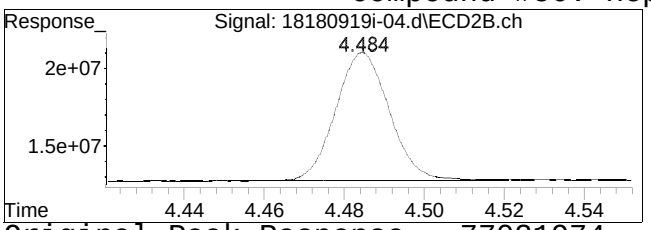
Compound #12: Heptachlor Epoxide

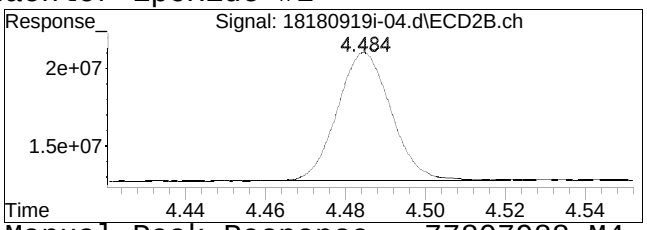




Original Peak Response = 62884816 Manual Peak Response = 66328349 M4
M4 = Poor automated baseline construction.

Compound #50: Heptachlor Epoxide #2





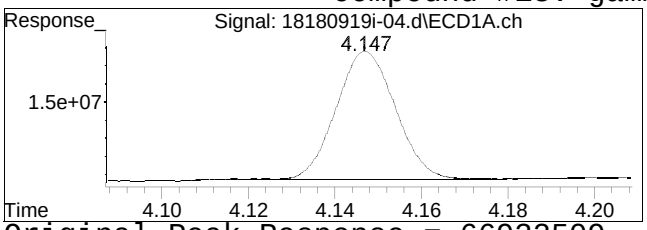
Original Peak Response = 77031974 Manual Peak Response = 77807988 M4
M4 = Poor automated baseline construction.

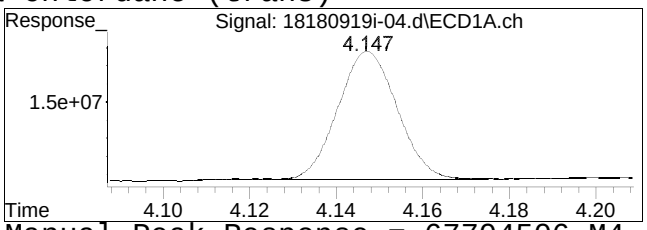
Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-04.d
Date Inj'd : 9/19/2018 6:36 pm
Sample : il3pest,42e,,pp8815

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/27/2018 4:04 pm

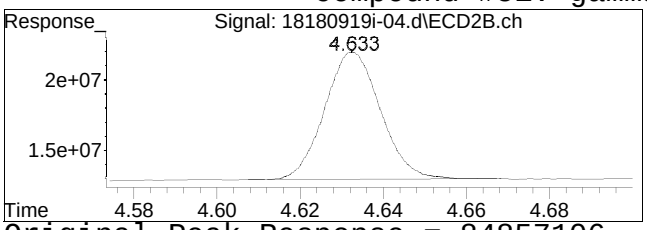
Compound #13: gamma-Chlordane (trans)

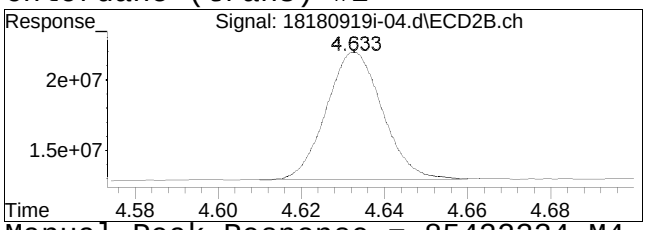




Original Peak Response = 66932509 Manual Peak Response = 67704506 M4
M4 = Poor automated baseline construction.

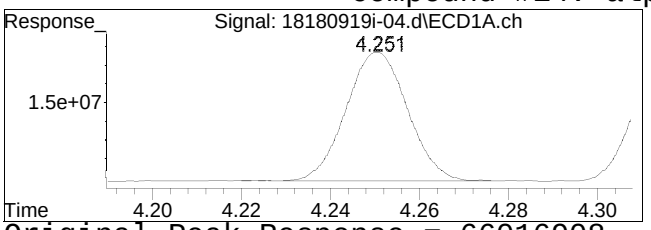
Compound #51: gamma-Chlordane (trans) #2

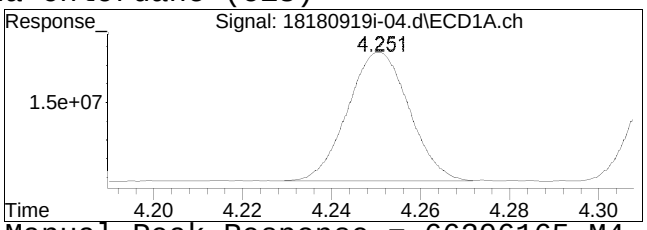




Original Peak Response = 84857106 Manual Peak Response = 85422334 M4
M4 = Poor automated baseline construction.

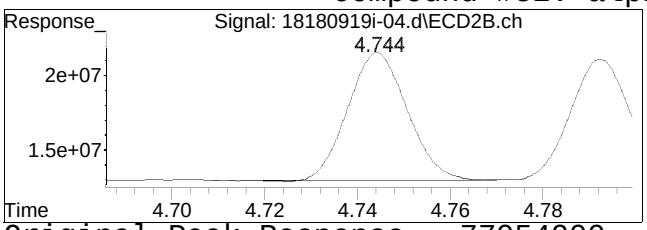
Compound #14: alpha-Chlordane (cis)

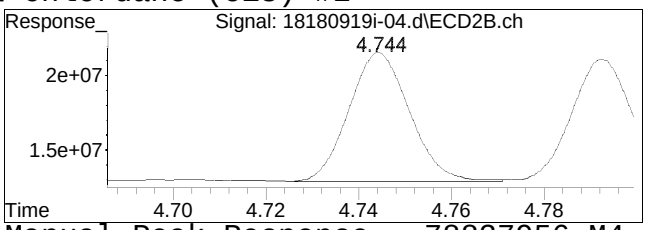




Original Peak Response = 66016908 Manual Peak Response = 66306165 M4
M4 = Poor automated baseline construction.

Compound #52: alpha-Chlordane (cis) #2





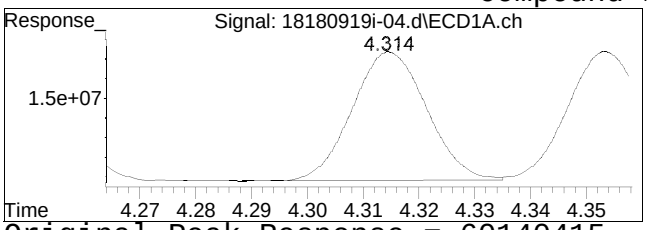
Original Peak Response = 77054900 Manual Peak Response = 78837956 M4
M4 = Poor automated baseline construction.

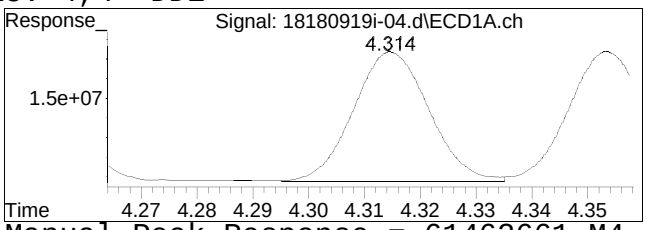
Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-04.d
Date Inj'd : 9/19/2018 6:36 pm
Sample : il3pest,42e,,pp8815

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/27/2018 4:04 pm

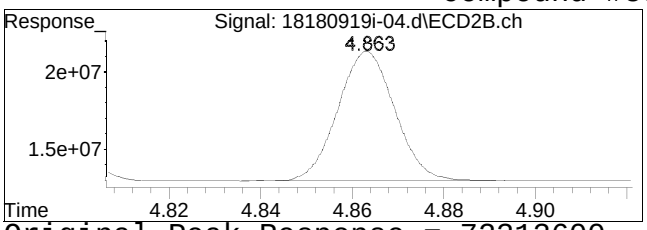
Compound #15: 4,4'-DDE

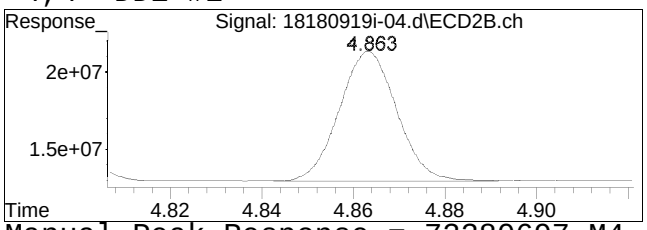




Original Peak Response = 60140415 Manual Peak Response = 61462661 M4
M4 = Poor automated baseline construction.

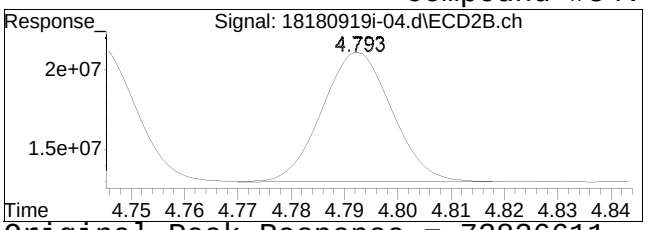
Compound #53: 4,4'-DDE #2

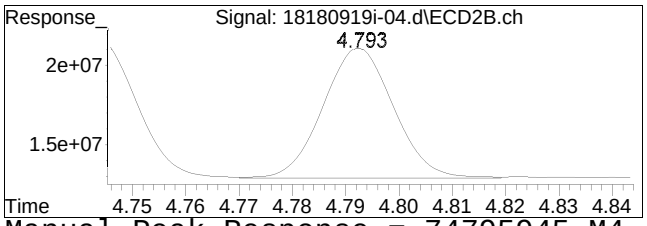




Original Peak Response = 72313600 Manual Peak Response = 73380697 M4
M4 = Poor automated baseline construction.

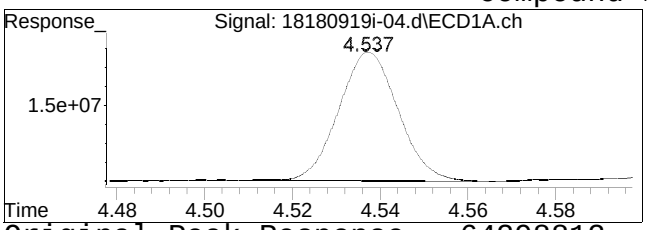
Compound #54: Endosulfan I #2

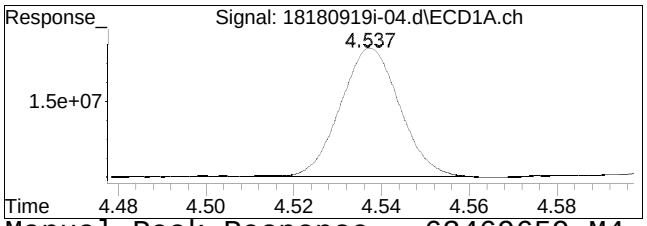




Original Peak Response = 73826611 Manual Peak Response = 74795945 M4
M4 = Poor automated baseline construction.

Compound #17: Dieldrin





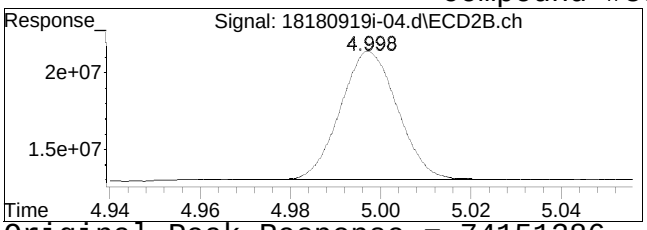
Original Peak Response = 64298812 Manual Peak Response = 63469659 M4
M4 = Poor automated baseline construction.

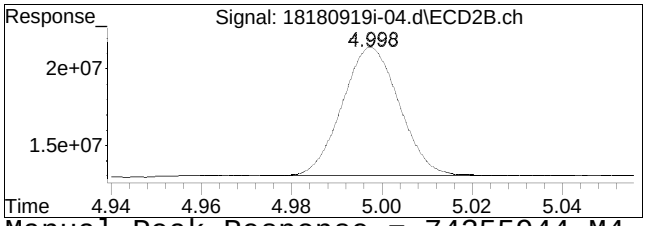
Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-04.d
Date Inj'd : 9/19/2018 6:36 pm
Sample : il3pest,42e,,pp8815

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/27/2018 4:04 pm

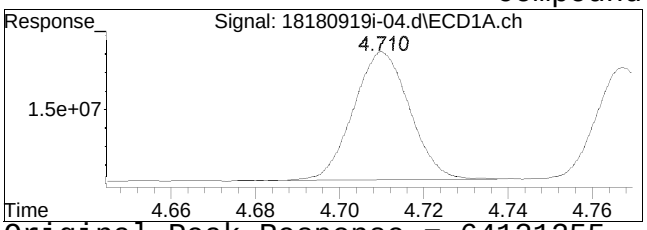
Compound #55: Dieldrin #2

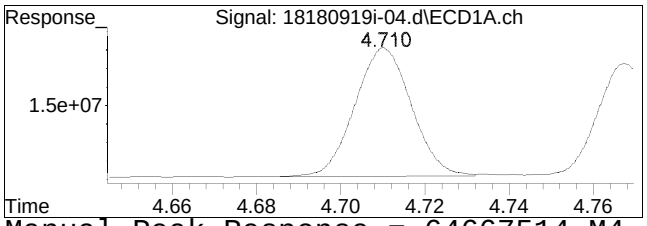




Original Peak Response = 74151386 Manual Peak Response = 74355944 M4
M4 = Poor automated baseline construction.

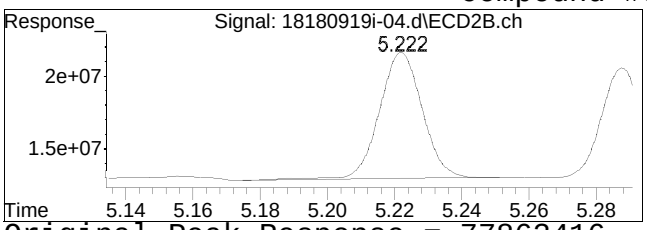
Compound #18: Endrin

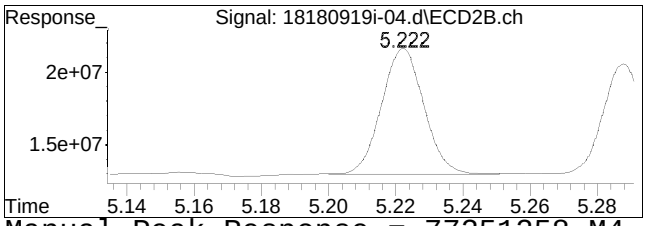




Original Peak Response = 64121255 Manual Peak Response = 64667514 M4
M4 = Poor automated baseline construction.

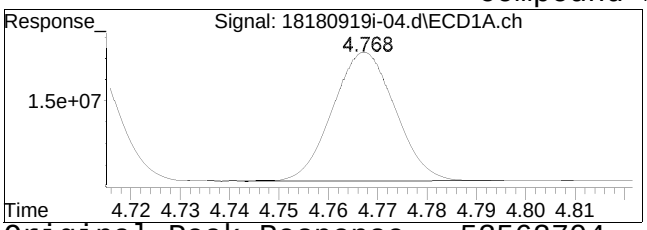
Compound #56: Endrin #2

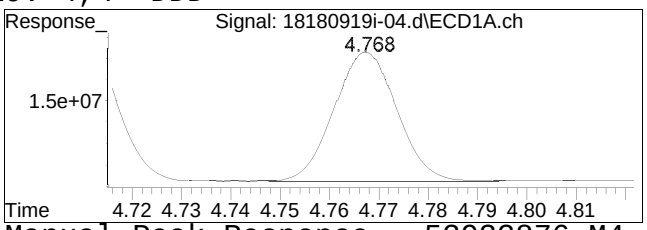




Original Peak Response = 77863416 Manual Peak Response = 77251258 M4
M4 = Poor automated baseline construction.

Compound #19: 4,4'-DDD





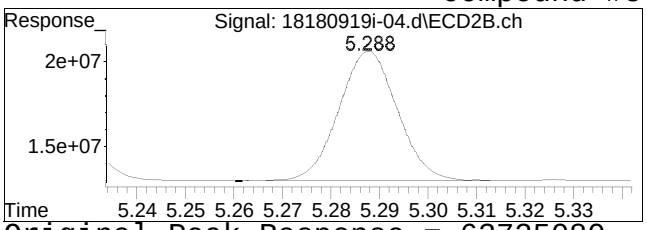
Original Peak Response = 53562704 Manual Peak Response = 53933876 M4
M4 = Poor automated baseline construction.

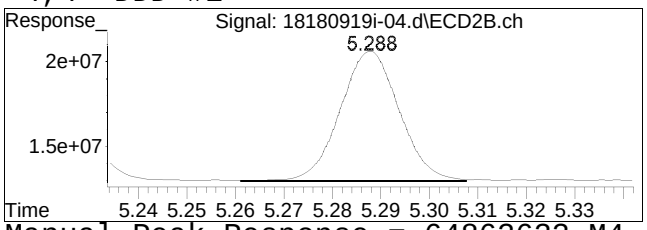
Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-04.d
Date Inj'd : 9/19/2018 6:36 pm
Sample : il3pest,42e,,pp8815

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/27/2018 4:04 pm

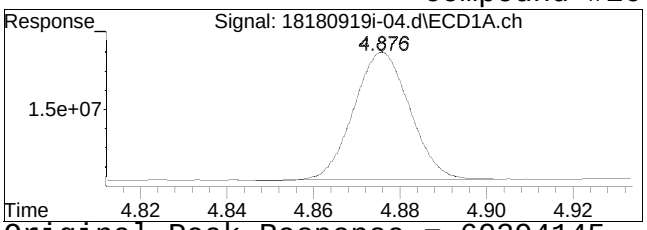
Compound #57: 4,4'-DDD #2

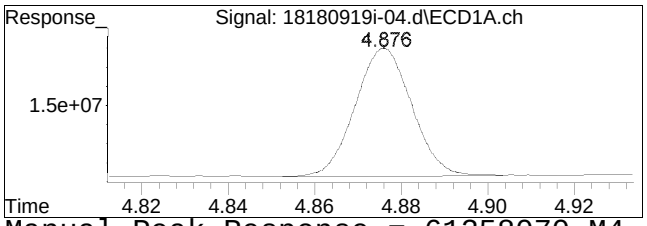




Original Peak Response = 63735080 Manual Peak Response = 64863633 M4
M4 = Poor automated baseline construction.

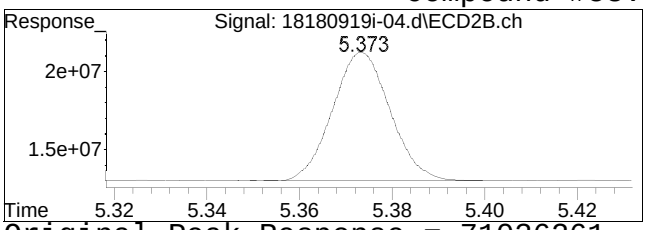
Compound #20: Endosulfan II

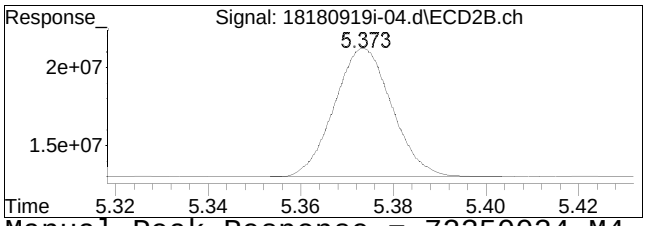




Original Peak Response = 60294145 Manual Peak Response = 61258070 M4
M4 = Poor automated baseline construction.

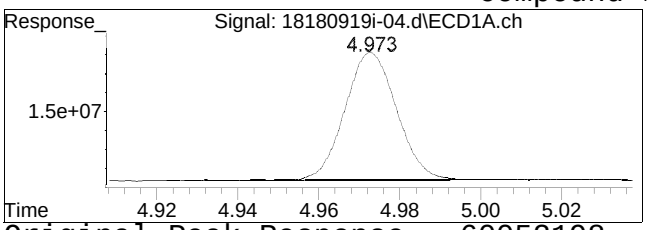
Compound #58: Endosulfan II #2

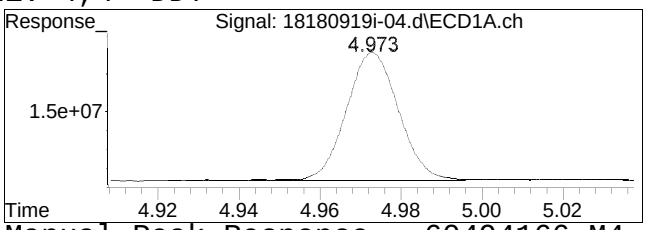




Original Peak Response = 71036261 Manual Peak Response = 72350034 M4
M4 = Poor automated baseline construction.

Compound #21: 4,4'-DDT





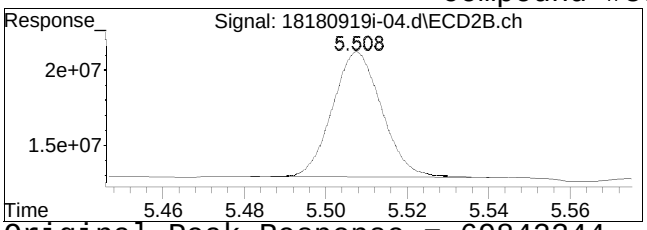
Original Peak Response = 60052198 Manual Peak Response = 60494166 M4
M4 = Poor automated baseline construction.

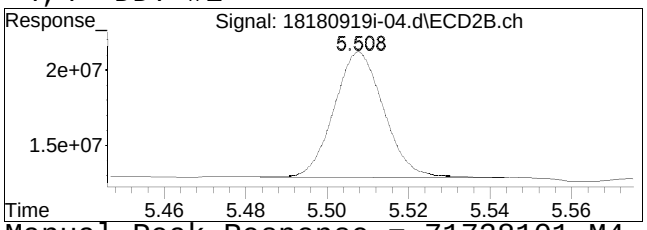
Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-04.d
Date Inj'd : 9/19/2018 6:36 pm
Sample : il3pest,42e,,pp8815

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/27/2018 4:04 pm

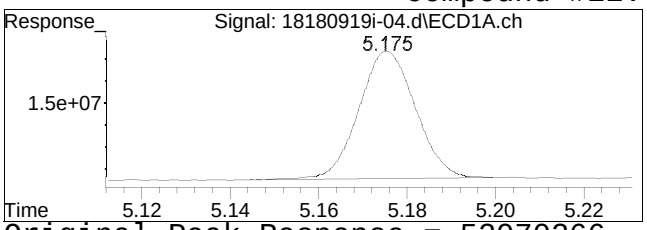
Compound #59: 4,4'-DDT #2

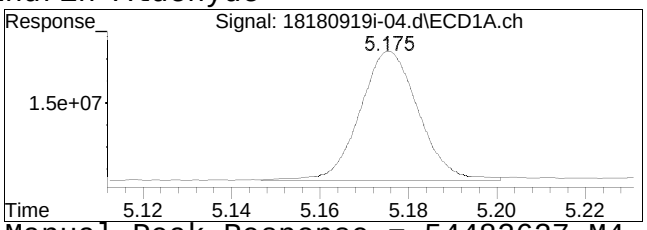




Original Peak Response = 69842344 Manual Peak Response = 71738101 M4
M4 = Poor automated baseline construction.

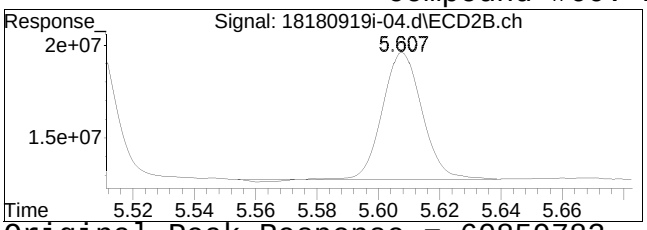
Compound #22: Endrin Aldehyde

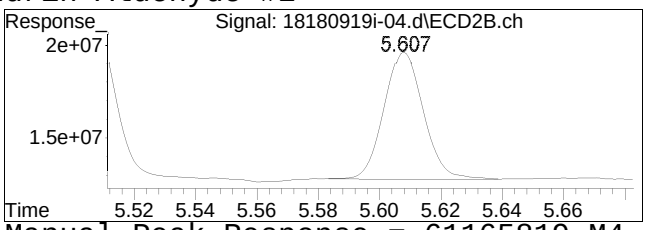




Original Peak Response = 52070266 Manual Peak Response = 54482627 M4
M4 = Poor automated baseline construction.

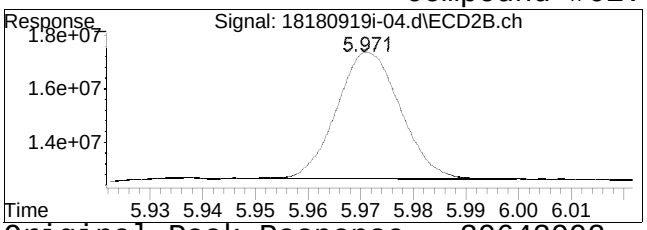
Compound #60: Endrin Aldehyde #2

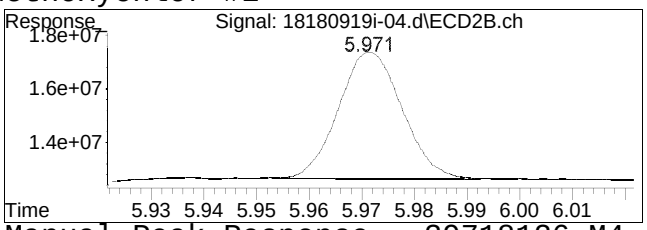




Original Peak Response = 60859783 Manual Peak Response = 61165819 M4
M4 = Poor automated baseline construction.

Compound #61: Methoxychlor #2





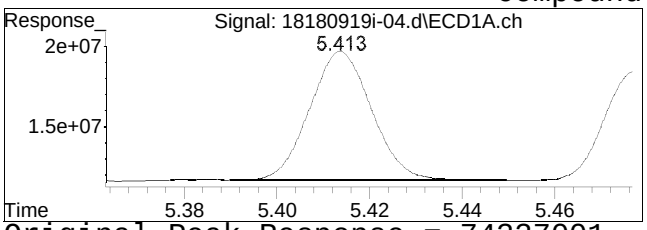
Original Peak Response = 39643992 Manual Peak Response = 39718126 M4
M4 = Poor automated baseline construction.

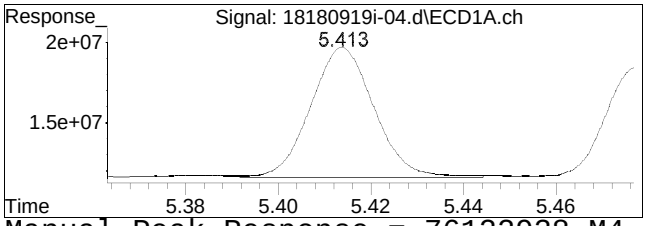
Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-04.d
Date Inj'd : 9/19/2018 6:36 pm
Sample : il3pest,42e,,pp8815

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/27/2018 4:04 pm

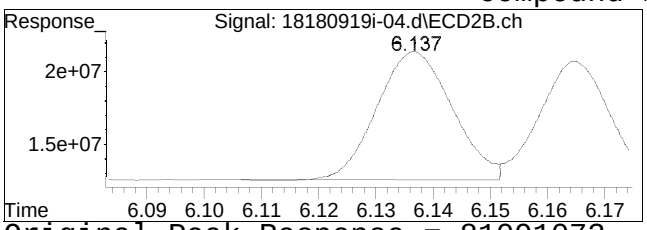
Compound #24: Mirex

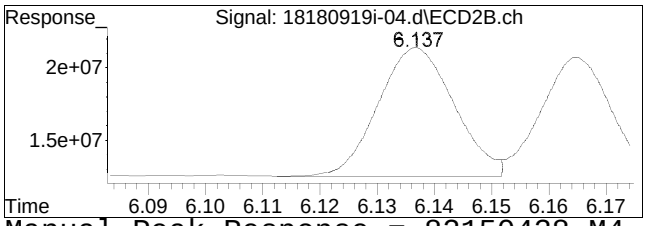




Original Peak Response = 74337001 Manual Peak Response = 76122938 M4
M4 = Poor automated baseline construction.

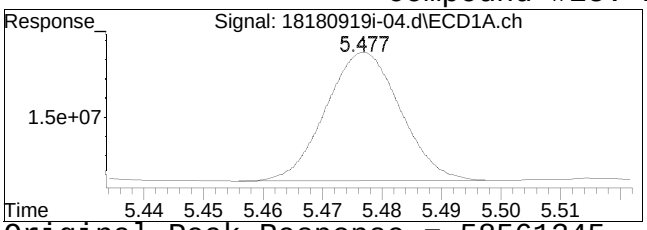
Compound #62: Mirex #2

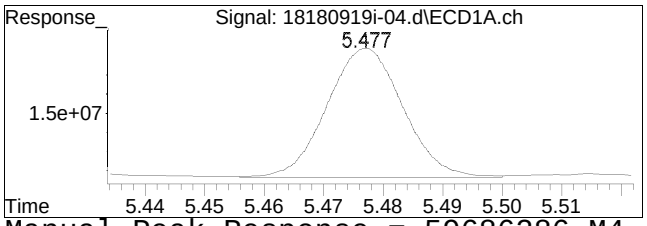




Original Peak Response = 81091073 Manual Peak Response = 82150438 M4
M4 = Poor automated baseline construction.

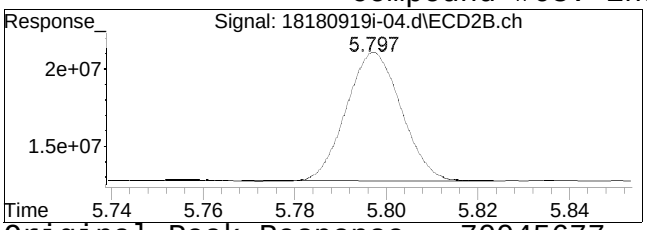
Compound #25: Endosulfan Sulfate

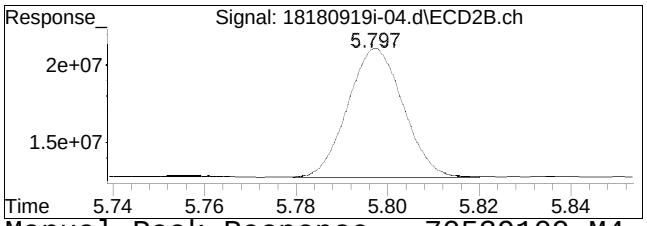




Original Peak Response = 58561345 Manual Peak Response = 59686286 M4
M4 = Poor automated baseline construction.

Compound #63: Endosulfan Sulfate #2





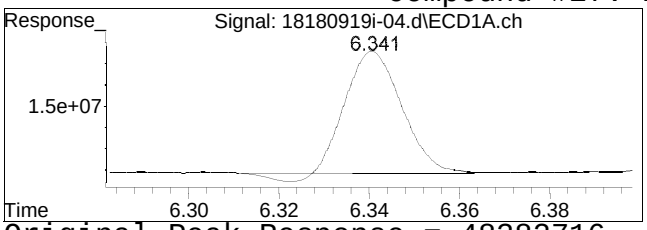
Original Peak Response = 70045677 Manual Peak Response = 70539109 M4
M4 = Poor automated baseline construction.

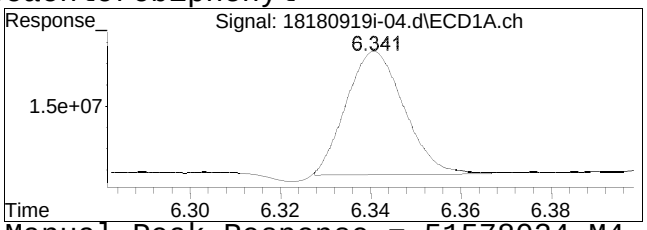
Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-04.d
Date Inj'd : 9/19/2018 6:36 pm
Sample : il3pest,42e,,pp8815

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/27/2018 4:04 pm

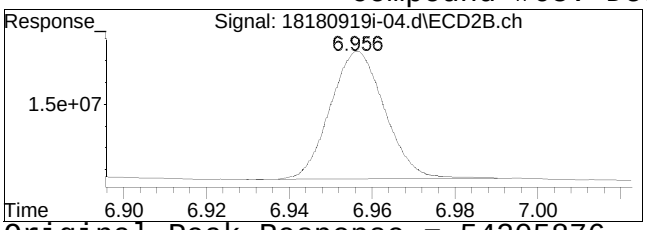
Compound #27: Decachlorobiphenyl

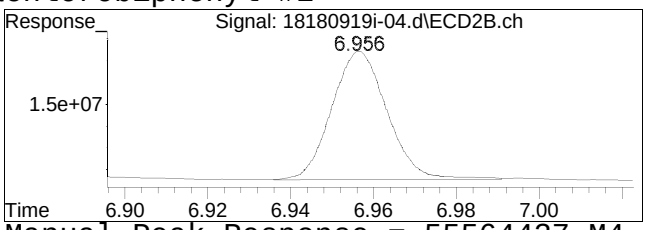




Original Peak Response = 48382716 Manual Peak Response = 51578024 M4
M4 = Poor automated baseline construction.

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 54205876 Manual Peak Response = 55564437 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-05.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Sep 2018 6:49 pm
Operator : PEST18:jw
Sample : il4pest,42e,,pp8816
Misc : wg1162772,ical (Sig #1); ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 16:03:36 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Thu Sep 27 15:56:34 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb...	1.882	2.002	554.2E6	660.0E6	25.000M4	25.000M4
28) i	1-br-2-nb...	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb...	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-T...	2.366	2.610	79325034	94188526	3.414M4	3.385
	Spiked Amount 50.000	Range 30 - 150		Recovery =		6.83%#	6.77%#
27) s	Decachlor...	6.337	6.948	74082359	77317245	3.499M4	3.449M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		7.00%#	6.90%#
	Target Compounds						
3)	Hexachlor...	2.623	2.966	83128333	97527774	3.520M4	3.483M4
4)	alpha-BHC	2.739	3.070	112.5E6	138.0E6	3.166M4	3.200M4
5)	gamma-BHC...	2.961	3.358	105.9E6	128.9E6	3.259M4	3.276M4
6)	beta-BHC	3.024	3.423	53767974	65824637	3.548M4	3.507M4
7)	delta-BHC	3.156	3.675	109.0E6	129.8E6	3.299M4	3.231M4
8)	Heptachlor	3.319	3.732	112.8E6	138.9E6	3.453M4	3.459M4
9)	Aldrin	3.555	4.015	95259198	117.7E6	3.316M4	3.339M4
10)	Alachlor	3.664	3.910	14786817	16379331	3.621M4	3.632M4
11)	Chlorpyrifos	3.750	4.192	61737170	74430725	3.668M4	3.633M4
12)	Heptachlo...	4.043	4.484	94217949	113.1E6	3.478M4	3.502M4

Quantitation Report (QT Reviewed)

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-05.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Sep 2018 6:49 pm
Operator : PEST18:jw
Sample : il4pest,42e,,pp8816
Misc : wg1162772,ical (Sig #1); ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 16:03:36 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Thu Sep 27 15:56:34 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
13)		gamma-Chl...	4.145	4.631	99580149	123.4E6	3.400M4	3.447M4
14)		alpha-Chl...	4.248	4.743	98133242	110.7E6	3.446M4	3.319M4
15)		4,4'-DDE	4.313	4.862	89985650	107.3E6	3.341M4	3.310M4
16)		Endosulfan I	4.352	4.791	91447297	108.7E6	3.446M4	3.439M4
17)		Dieldrin	4.536	4.996	92967702	109.1E6	3.338M4	3.342M4
18)		Endrin	4.708	5.221	94629193	110.4E6	3.340M4	3.375M4
19)		4,4'-DDD	4.766	5.286	79168015	94218214	3.310M4	3.332M4
20)		Endosulfa...	4.874	5.372	90061956	105.8E6	3.458M4	3.467M4
21)		4,4'-DDT	4.971	5.506	88368954	103.7E6	3.354M4	3.398M4
22)		Endrin Al...	5.174	5.606	76471197	88877315	3.371	3.423M4
23)		Methoxychlor	5.324	5.969	51914503	56911336	3.596	3.580M4
24)		Mirex	5.412	6.134	76461299	83287331	3.553	3.649M4
25)		Endosulfa...	5.475	5.795	83929054	103.5E6	3.221M4	3.382M4
26)		Endrin Ke...	5.666	6.162	96704648	103.9E6	3.508M4	3.441
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-2	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
32)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum		chlordane-1			0	0	N.D.	N.D.
Average		chlordane-1					0.000	0.000
34)	l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-05.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Sep 2018 6:49 pm
Operator : PEST18:jw
Sample : il4pest,42e,,pp8816
Misc : wg1162772,ical (Sig #1); ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 16:03:36 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Thu Sep 27 15:56:34 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

	Sum toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

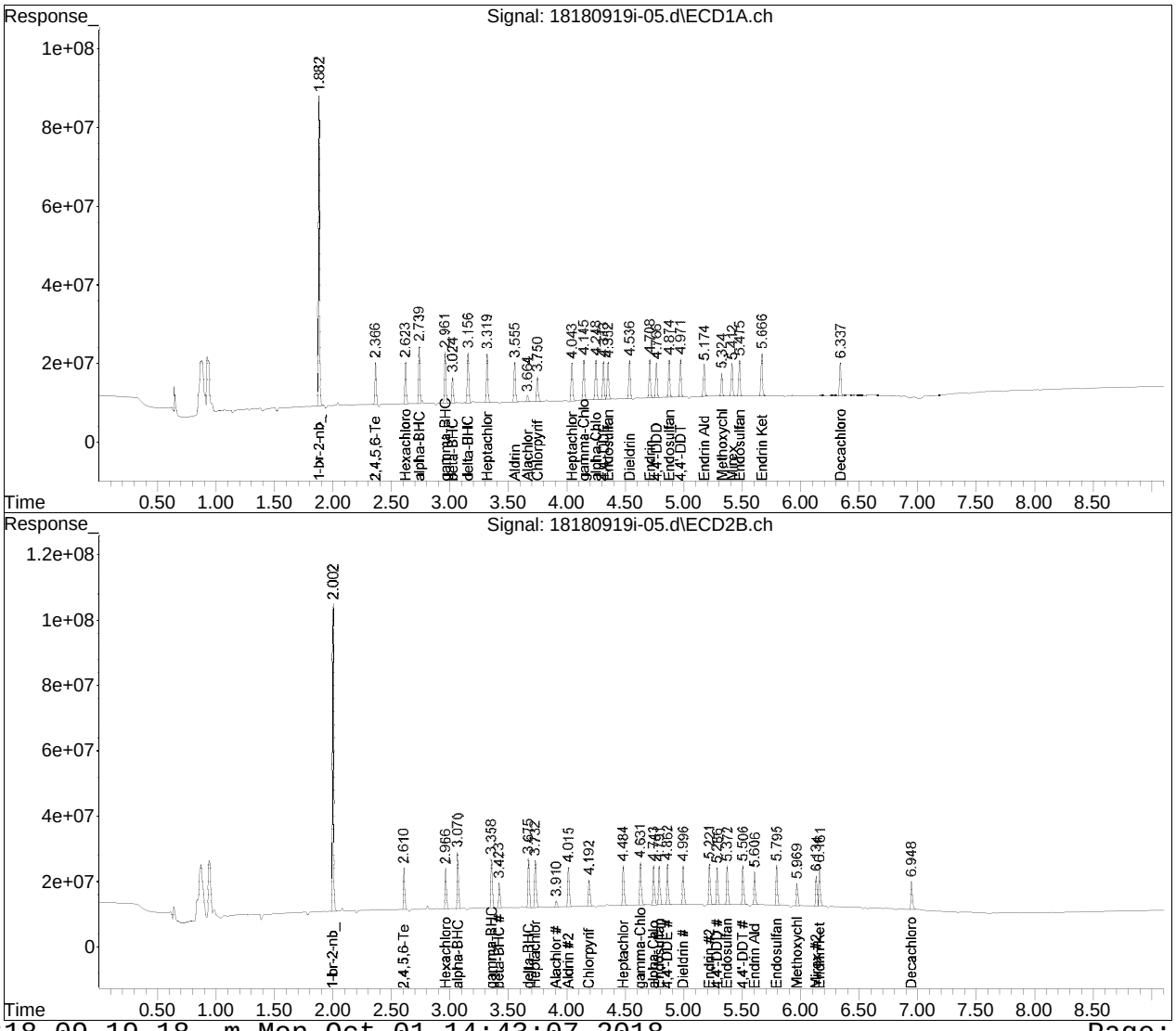
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-05.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Sep 2018 6:49 pm
Operator : PEST18:jw
Sample : il4pest,42e,,pp8816
Misc : wg1162772,ical (Sig #1); ical (Sig #2)
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 16:03:36 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Thu Sep 27 15:56:34 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

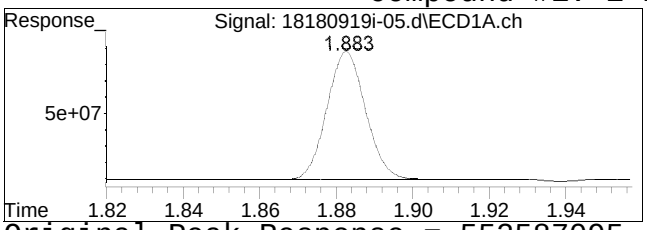


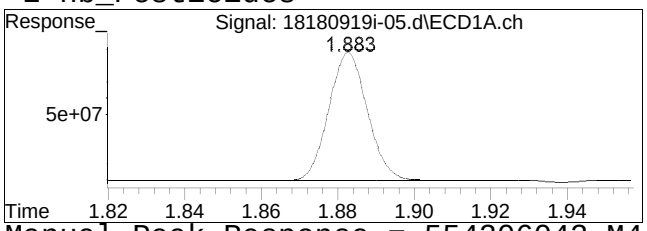
Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-05.d
Date Inj'd : 9/19/2018 6:49 pm
Sample : il4pest,42e,,pp8816

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/27/2018 3:56 pm

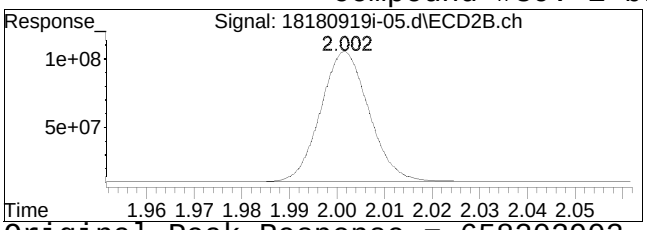
Compound #1: 1-br-2-nb_Pesticides

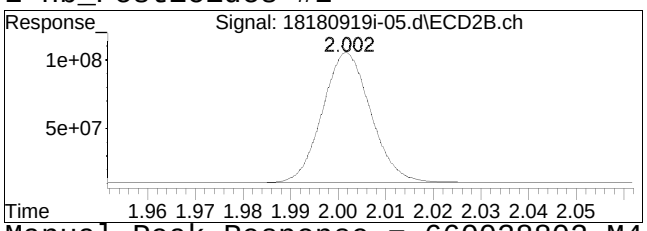




Original Peak Response = 552587095 Manual Peak Response = 554206043 M4
M4 = Poor automated baseline construction.

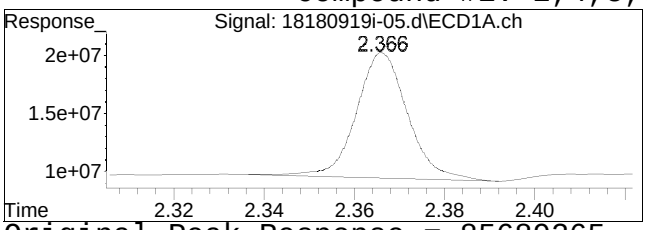
Compound #39: 1-br-2-nb_Pesticides #2

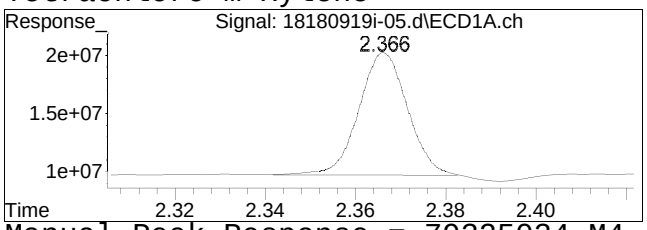




Original Peak Response = 658203903 Manual Peak Response = 660038802 M4
M4 = Poor automated baseline construction.

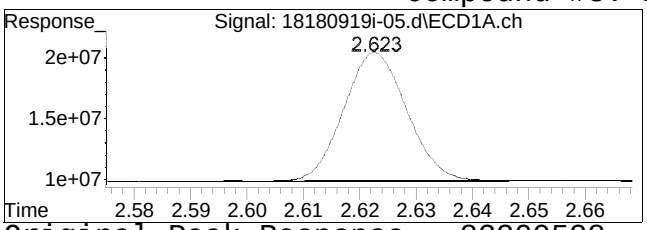
Compound #2: 2,4,5,6-Tetrachloro-m-xylene

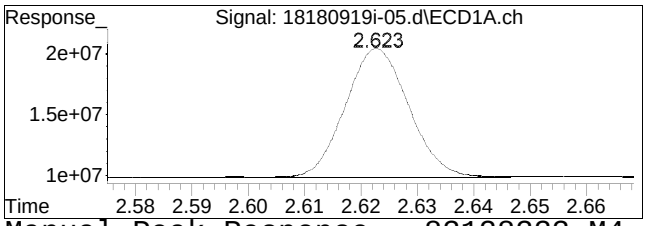




Original Peak Response = 85689265 Manual Peak Response = 79325034 M4
M4 = Poor automated baseline construction.

Compound #3: Hexachlorobenzene





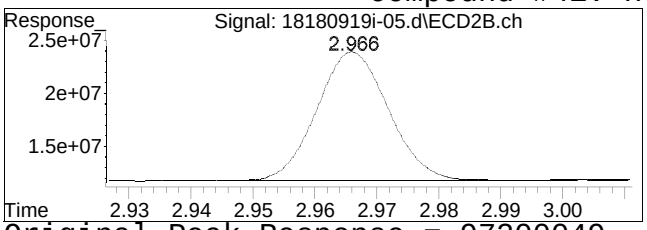
Original Peak Response = 82309528 Manual Peak Response = 83128333 M4
M4 = Poor automated baseline construction.

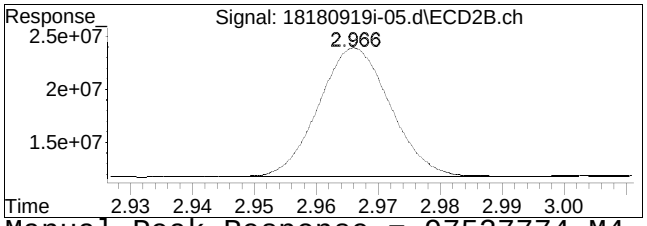
Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-05.d
Date Inj'd : 9/19/2018 6:49 pm
Sample : il4pest,42e,,pp8816

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/27/2018 3:56 pm

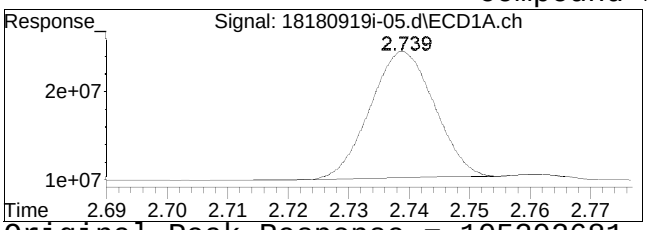
Compound #41: Hexachlorobenzene #2

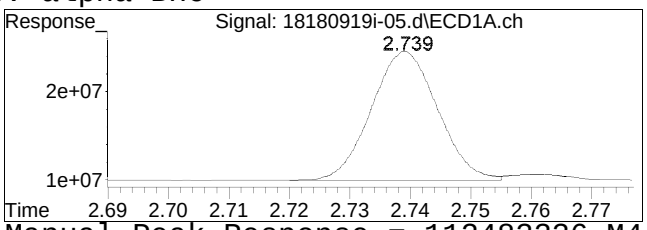




Original Peak Response = 97200049 Manual Peak Response = 97527774 M4
M4 = Poor automated baseline construction.

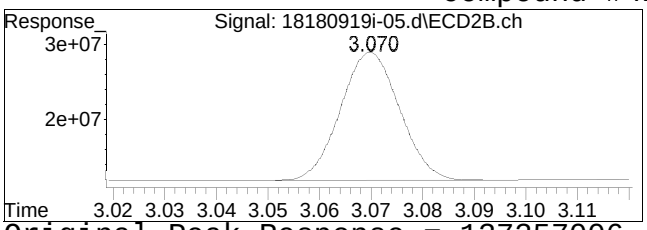
Compound #4: alpha-BHC

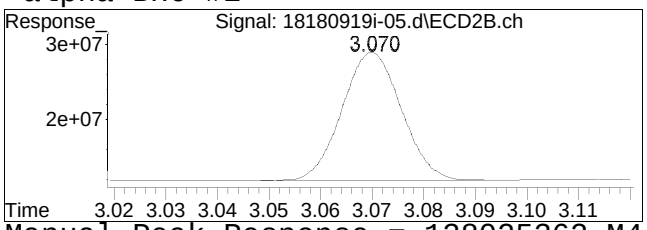




Original Peak Response = 105292681 Manual Peak Response = 112483336 M4
M4 = Poor automated baseline construction.

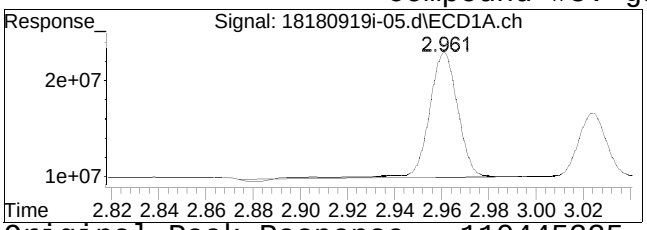
Compound #42: alpha-BHC #2

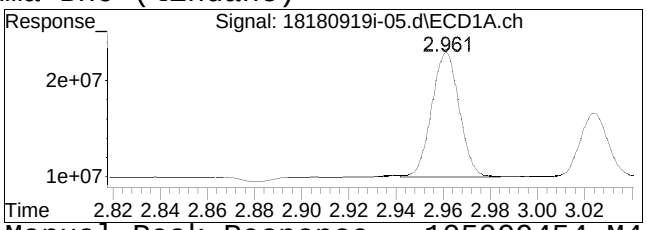




Original Peak Response = 137357006 Manual Peak Response = 138025362 M4
M4 = Poor automated baseline construction.

Compound #5: gamma-BHC (lindane)





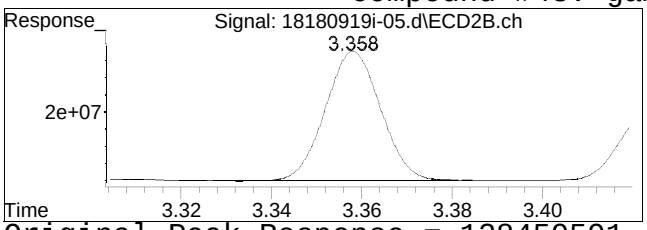
Original Peak Response = 110445335 Manual Peak Response = 105909454 M4
M4 = Poor automated baseline construction.

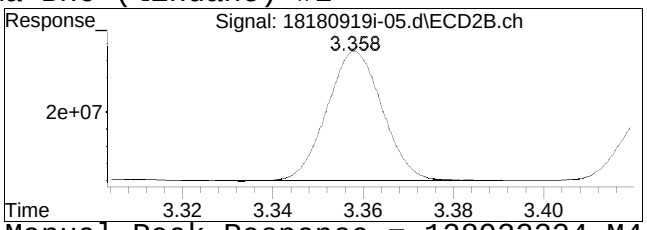
Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-05.d
Date Inj'd : 9/19/2018 6:49 pm
Sample : il4pest,42e,,pp8816

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/27/2018 3:56 pm

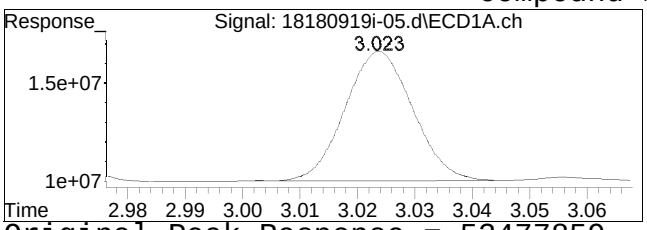
Compound #43: gamma-BHC (lindane) #2

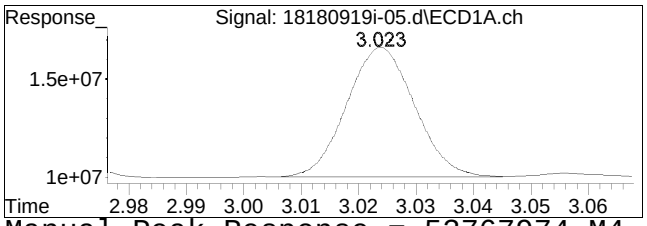




Original Peak Response = 128459591 Manual Peak Response = 128922224 M4
M4 = Poor automated baseline construction.

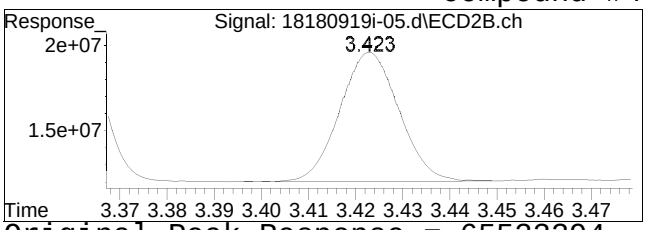
Compound #6: beta-BHC

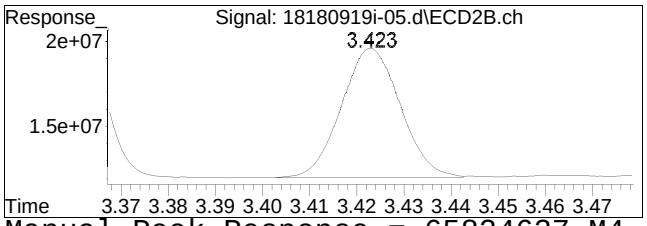




Original Peak Response = 53477859 Manual Peak Response = 53767974 M4
M4 = Poor automated baseline construction.

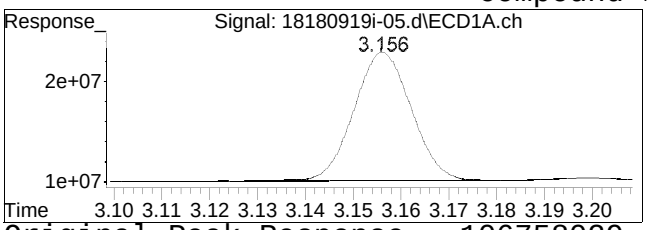
Compound #44: beta-BHC #2

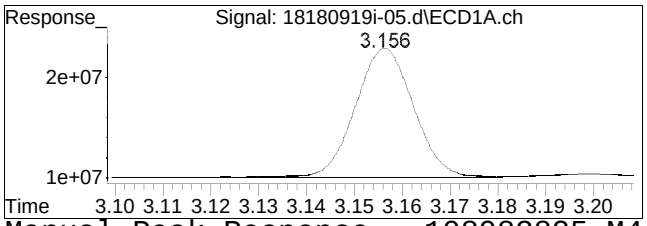




Original Peak Response = 65533394 Manual Peak Response = 65824637 M4
M4 = Poor automated baseline construction.

Compound #7: delta-BHC





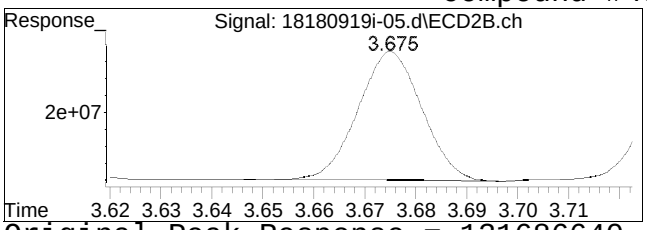
Original Peak Response = 106758029 Manual Peak Response = 108983825 M4
M4 = Poor automated baseline construction.

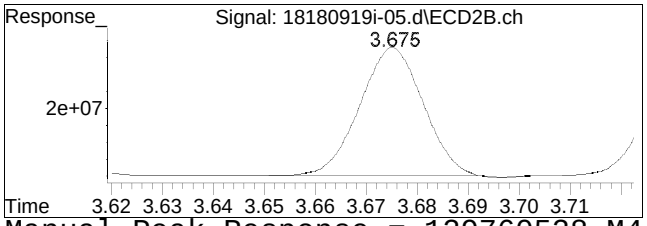
Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-05.d
Date Inj'd : 9/19/2018 6:49 pm
Sample : il4pest,42e,,pp8816

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/27/2018 3:56 pm

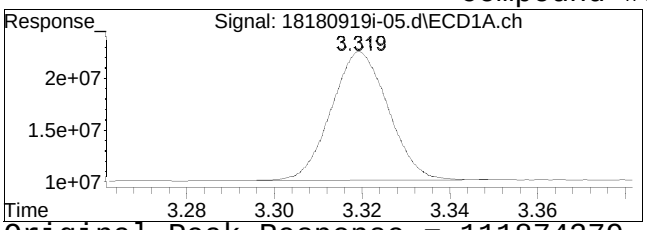
Compound #45: delta-BHC #2

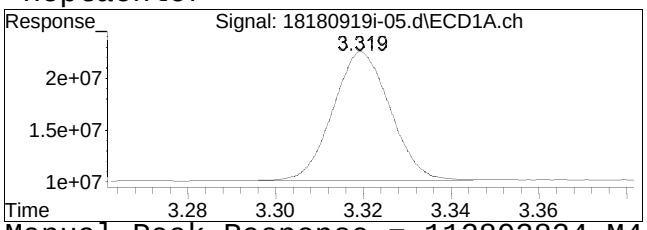




Original Peak Response = 131686640 Manual Peak Response = 129760528 M4
M4 = Poor automated baseline construction.

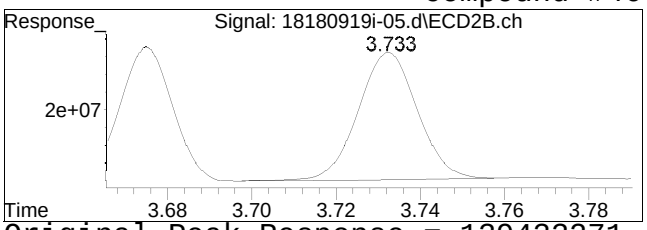
Compound #8: Heptachlor

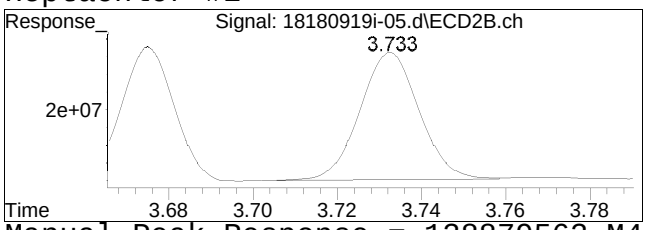




Original Peak Response = 111874379 Manual Peak Response = 112803824 M4
M4 = Poor automated baseline construction.

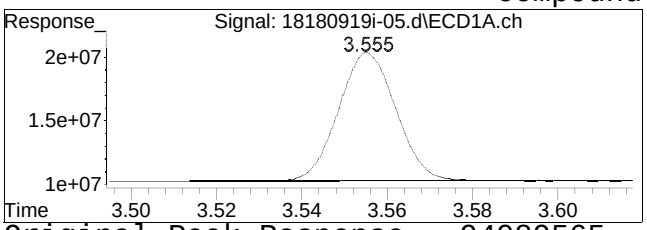
Compound #46: Heptachlor #2

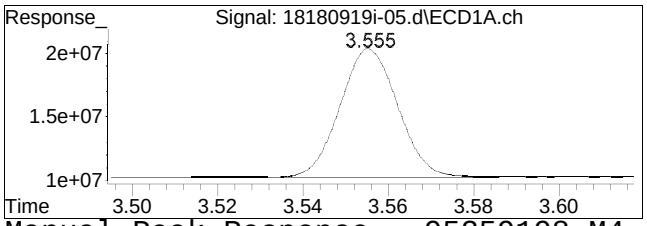




Original Peak Response = 139433271 Manual Peak Response = 138879563 M4
M4 = Poor automated baseline construction.

Compound #9: Aldrin





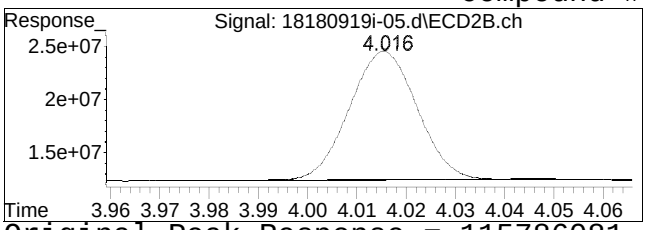
Original Peak Response = 94089565 Manual Peak Response = 95259198 M4
M4 = Poor automated baseline construction.

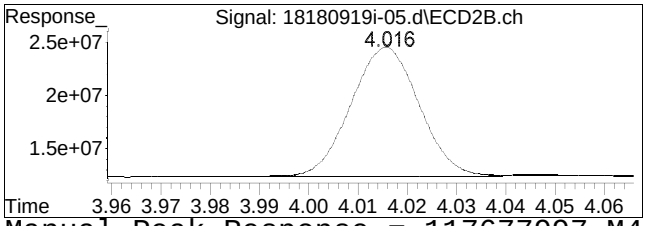
Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-05.d
Date Inj'd : 9/19/2018 6:49 pm
Sample : il4pest,42e,,pp8816

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/27/2018 3:56 pm

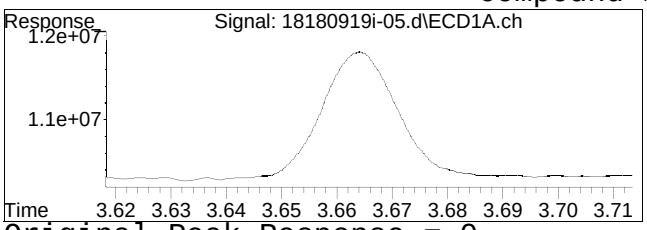
Compound #47: Aldrin #2

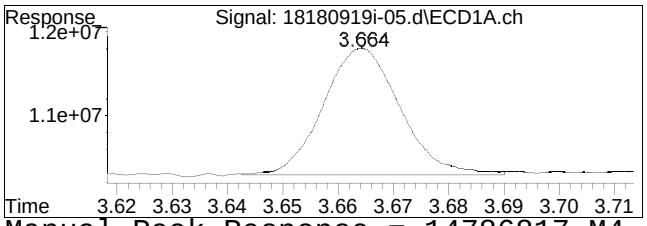




Original Peak Response = 115786081 Manual Peak Response = 117677997 M4
M4 = Poor automated baseline construction.

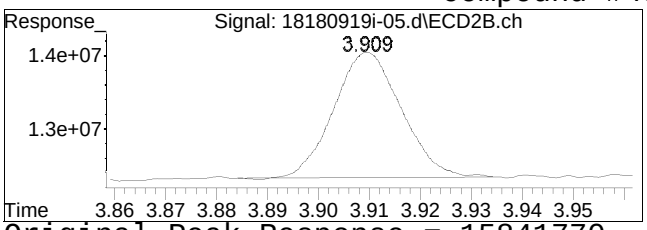
Compound #10: Alachlor

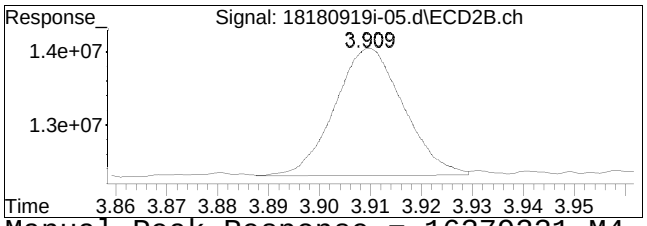




Original Peak Response = 0 Manual Peak Response = 14786817 M4
M4 = Poor automated baseline construction.

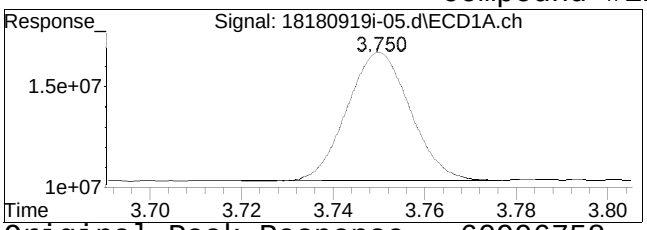
Compound #48: Alachlor #2

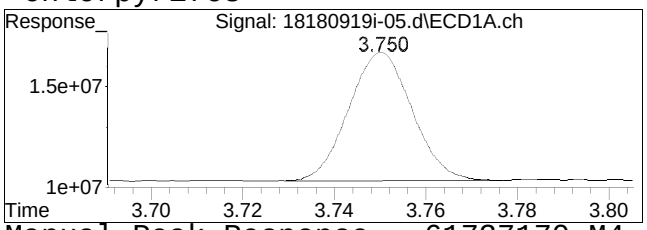




Original Peak Response = 15841770 Manual Peak Response = 16379331 M4
M4 = Poor automated baseline construction.

Compound #11: Chlorpyrifos





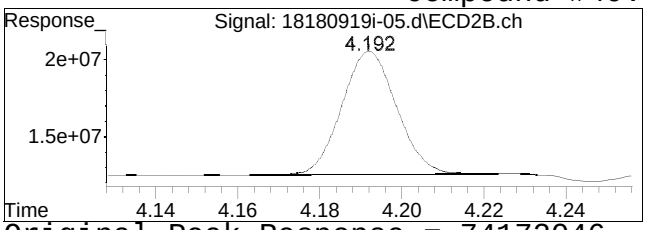
Original Peak Response = 60996758 Manual Peak Response = 61737170 M4
M4 = Poor automated baseline construction.

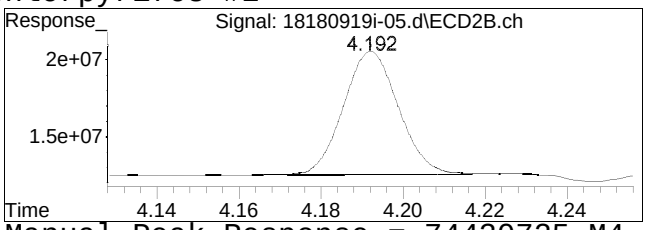
Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-05.d
Date Inj'd : 9/19/2018 6:49 pm
Sample : il4pest,42e,,pp8816

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/27/2018 3:56 pm

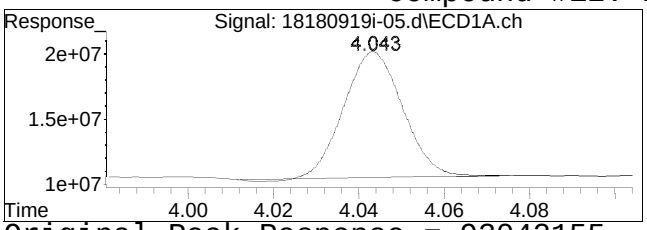
Compound #49: Chlorpyrifos #2

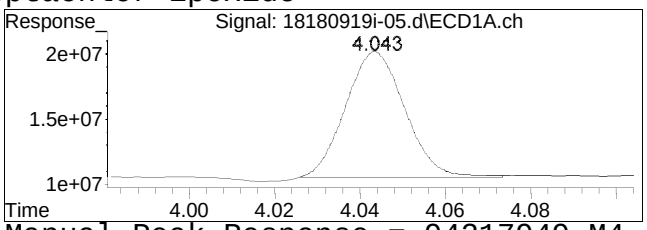




Original Peak Response = 74172046 Manual Peak Response = 74430725 M4
M4 = Poor automated baseline construction.

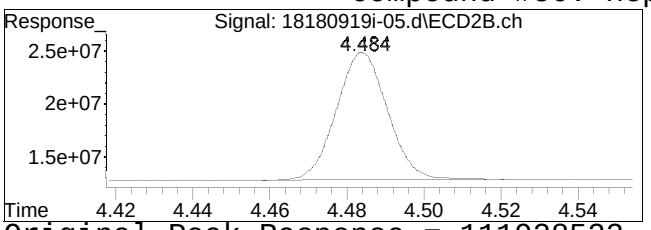
Compound #12: Heptachlor Epoxide

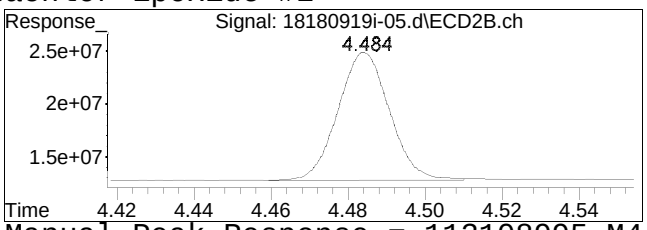




Original Peak Response = 93042155 Manual Peak Response = 94217949 M4
M4 = Poor automated baseline construction.

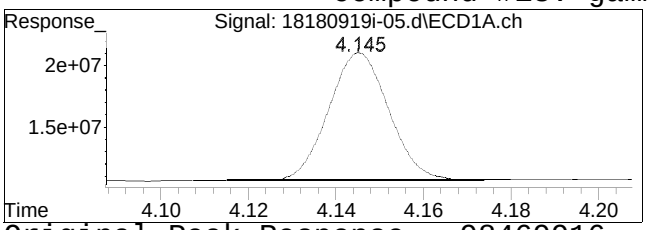
Compound #50: Heptachlor Epoxide #2

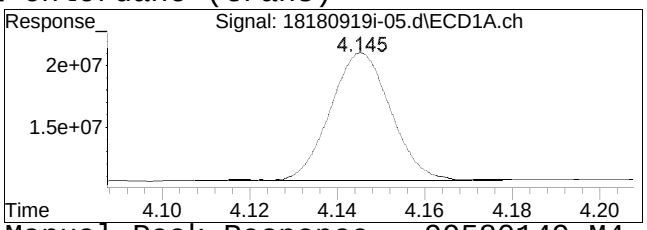




Original Peak Response = 111928522 Manual Peak Response = 113108995 M4
M4 = Poor automated baseline construction.

Compound #13: gamma-Chlordane (trans)





Original Peak Response = 98469916 Manual Peak Response = 99580149 M4
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
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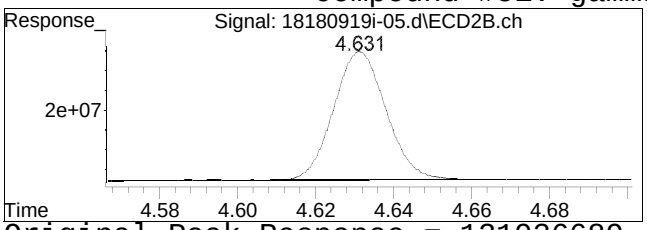
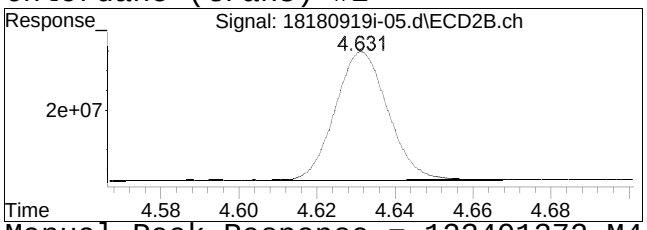
Sample : il4pest,42e,,pp8816

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/27/2018 3:56 pm

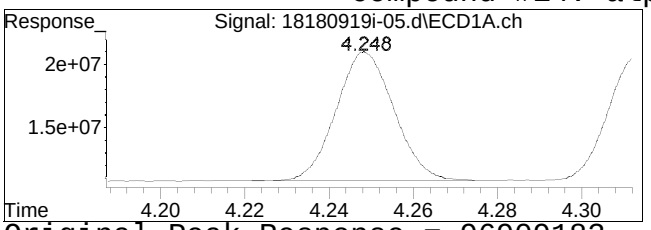
Compound #51: gamma-Chlordane (trans) #2

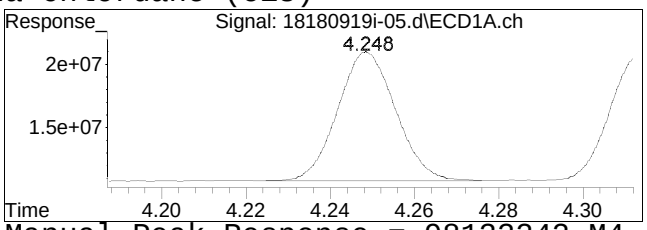




Original Peak Response = 121936689 Manual Peak Response = 123401372 M4
M4 = Poor automated baseline construction.

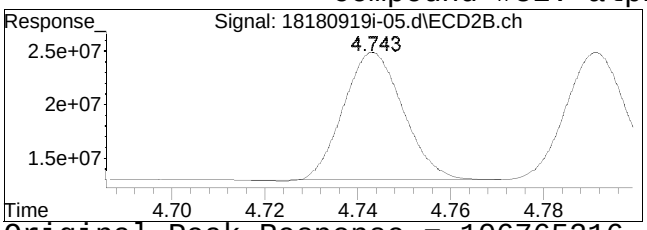
Compound #14: alpha-Chlordane (cis)

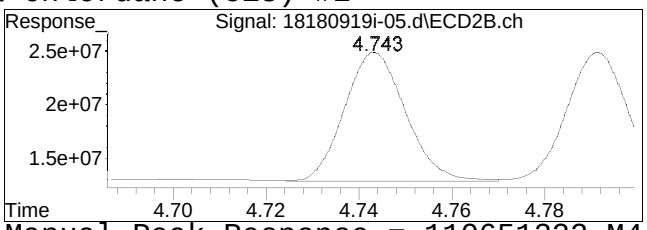




Original Peak Response = 96909183 Manual Peak Response = 98133242 M4
M4 = Poor automated baseline construction.

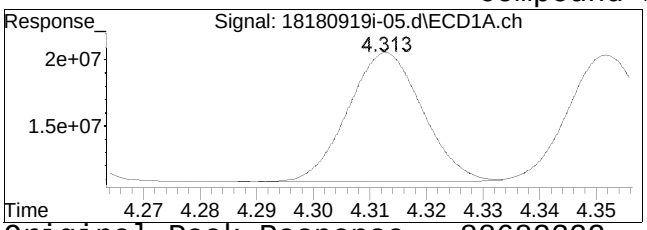
Compound #52: alpha-Chlordane (cis) #2

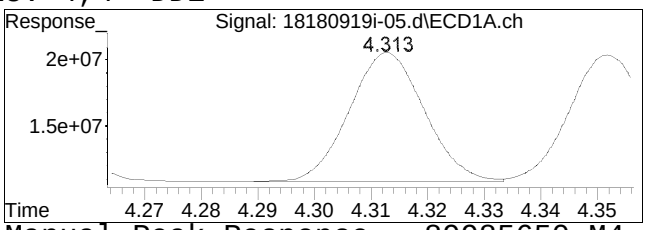




Original Peak Response = 106765216 Manual Peak Response = 110651222 M4
M4 = Poor automated baseline construction.

Compound #15: 4,4'-DDE





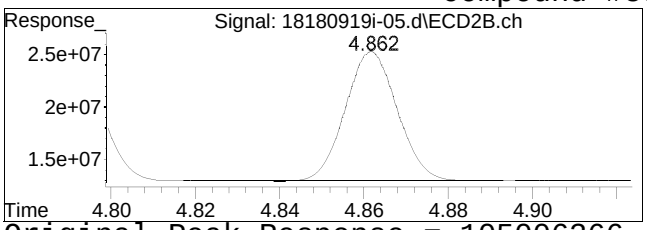
Original Peak Response = 88682222 Manual Peak Response = 89985650 M4
M4 = Poor automated baseline construction.

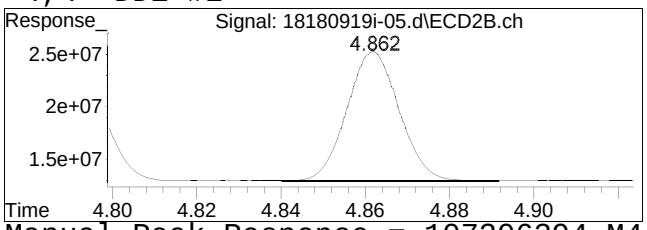
Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-05.d
Date Inj'd : 9/19/2018 6:49 pm
Sample : il4pest,42e,,pp8816

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/27/2018 3:56 pm

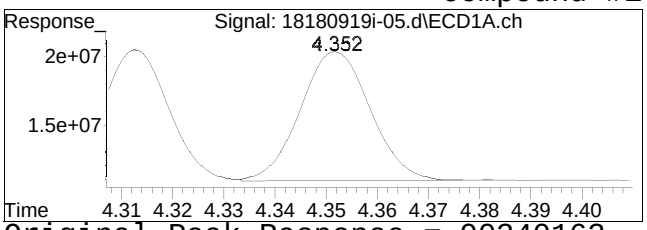
Compound #53: 4,4'-DDE #2

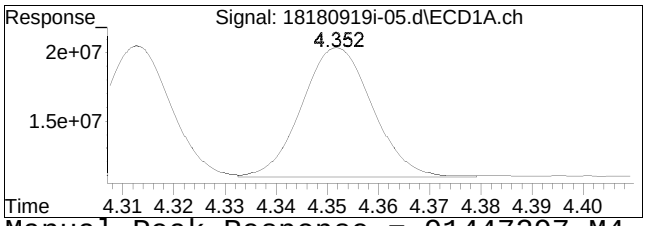




Original Peak Response = 105006366 Manual Peak Response = 107306394 M4
M4 = Poor automated baseline construction.

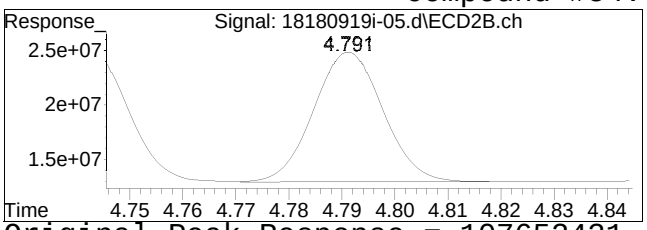
Compound #16: Endosulfan I

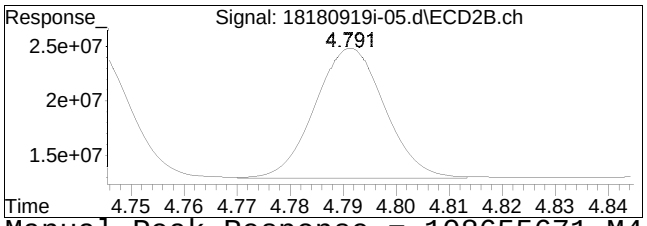




Original Peak Response = 90340163 Manual Peak Response = 91447297 M4
M4 = Poor automated baseline construction.

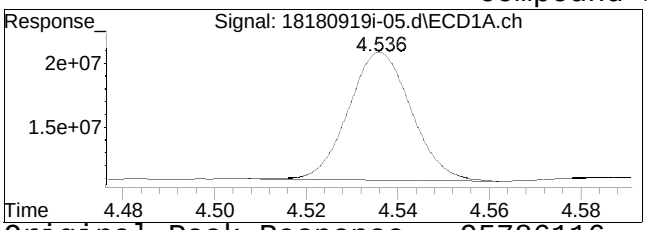
Compound #54: Endosulfan I #2

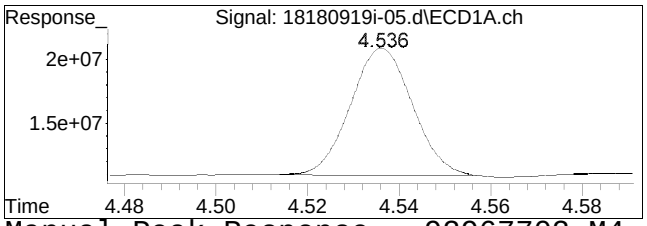




Original Peak Response = 107652431 Manual Peak Response = 108655671 M4
M4 = Poor automated baseline construction.

Compound #17: Dieldrin





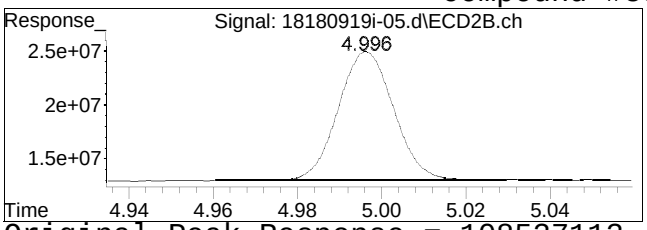
Original Peak Response = 95786116 Manual Peak Response = 92967702 M4
M4 = Poor automated baseline construction.

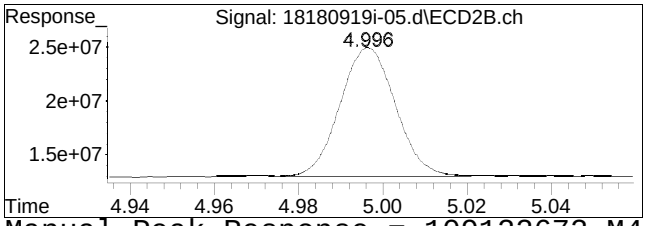
Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-05.d
Date Inj'd : 9/19/2018 6:49 pm
Sample : il4pest,42e,,pp8816

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/27/2018 3:56 pm

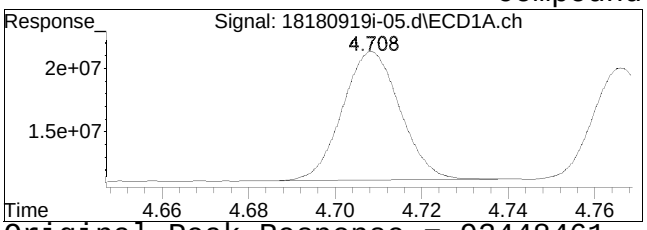
Compound #55: Dieldrin #2

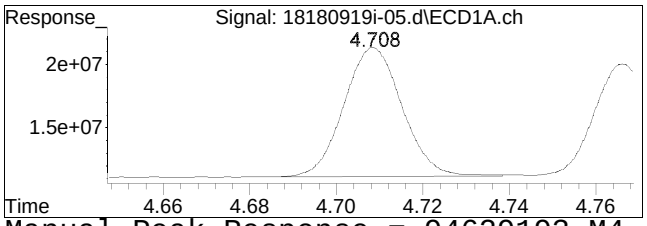




Original Peak Response = 108537113 Manual Peak Response = 109122672 M4
M4 = Poor automated baseline construction.

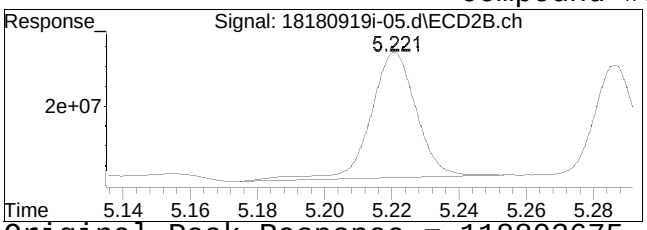
Compound #18: Endrin

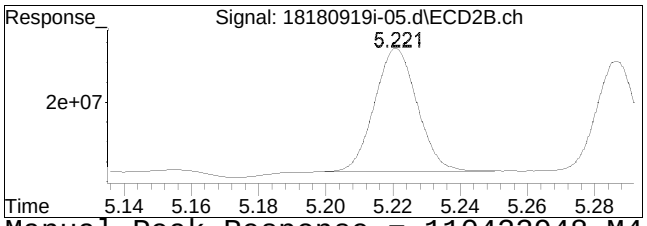




Original Peak Response = 93448461 Manual Peak Response = 94629193 M4
M4 = Poor automated baseline construction.

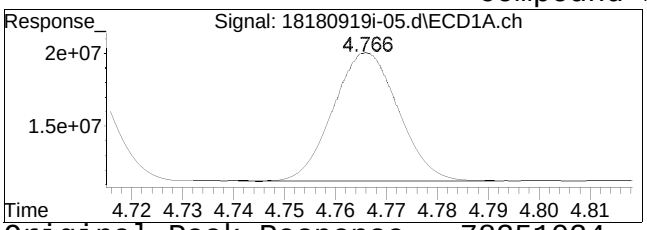
Compound #56: Endrin #2

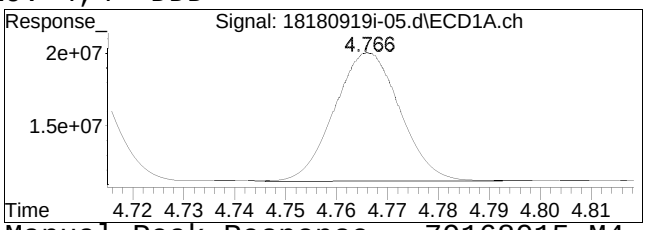




Original Peak Response = 118803675 Manual Peak Response = 110423948 M4
M4 = Poor automated baseline construction.

Compound #19: 4,4'-DDD





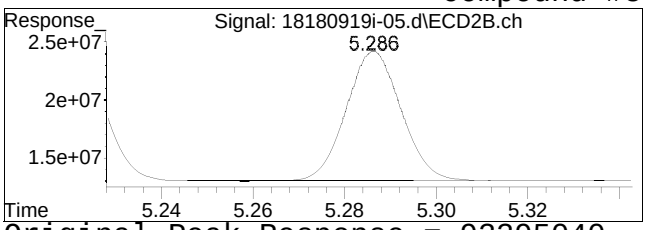
Original Peak Response = 78351024 Manual Peak Response = 79168015 M4
M4 = Poor automated baseline construction.

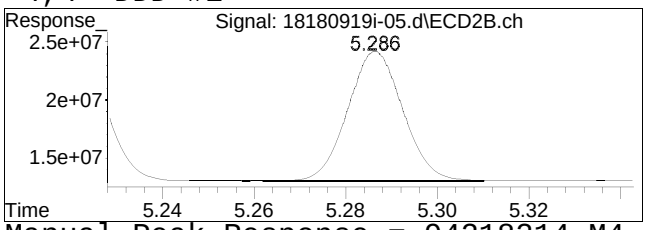
Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-05.d
Date Inj'd : 9/19/2018 6:49 pm
Sample : il4pest,42e,,pp8816

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/27/2018 3:56 pm

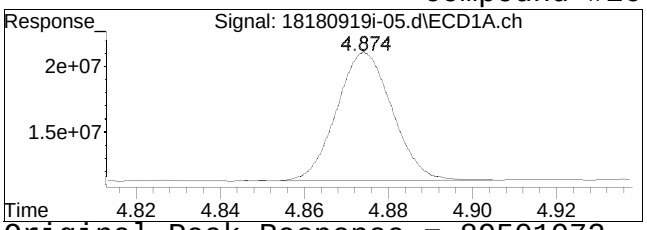
Compound #57: 4,4'-DDD #2

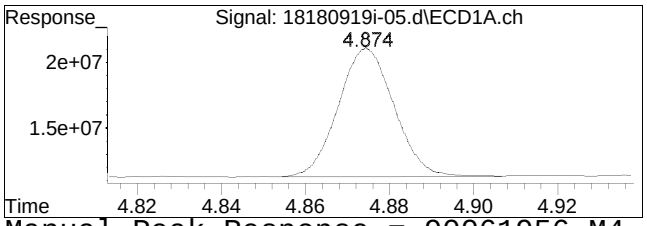




Original Peak Response = 93395040 Manual Peak Response = 94218214 M4
M4 = Poor automated baseline construction.

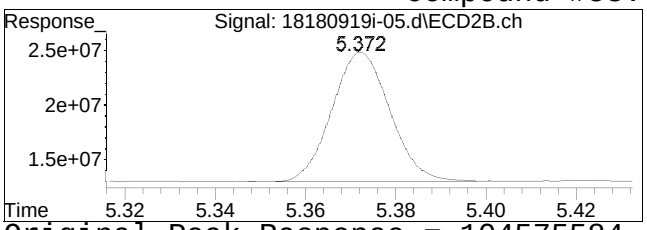
Compound #20: Endosulfan II

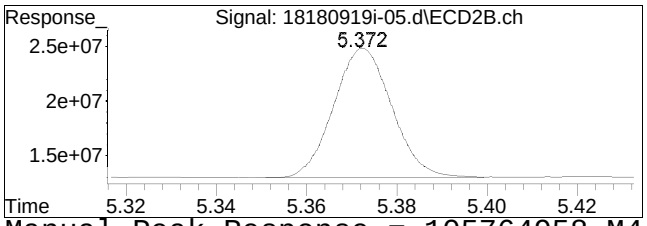




Original Peak Response = 89501972 Manual Peak Response = 90061956 M4
M4 = Poor automated baseline construction.

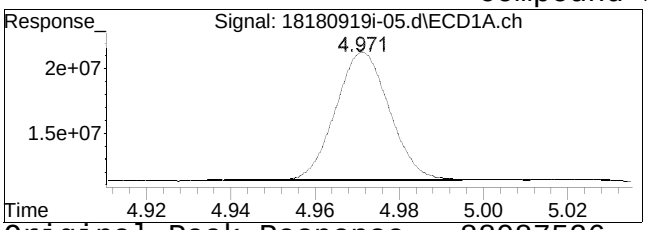
Compound #58: Endosulfan II #2

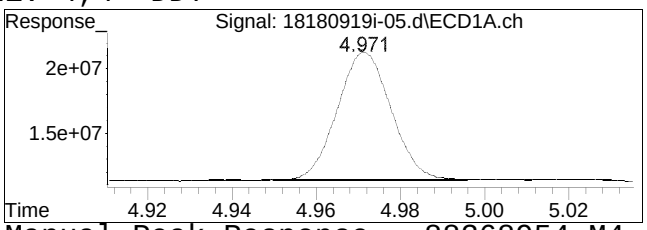




Original Peak Response = 104575584 Manual Peak Response = 105764958 M4
M4 = Poor automated baseline construction.

Compound #21: 4,4'-DDT





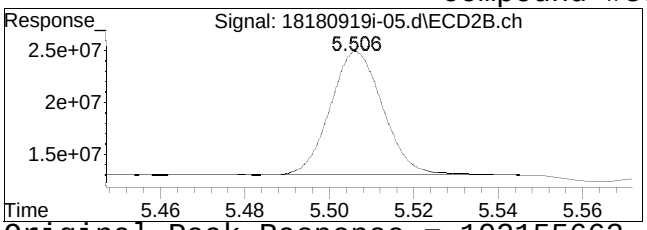
Original Peak Response = 88087526 Manual Peak Response = 88368954 M4
M4 = Poor automated baseline construction.

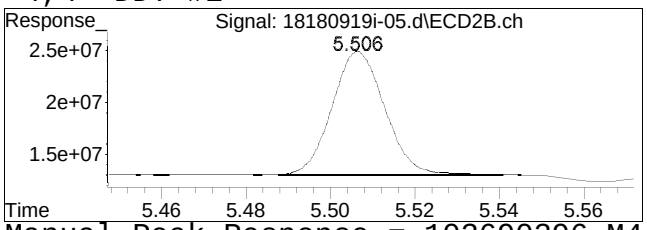
Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-05.d
Date Inj'd : 9/19/2018 6:49 pm
Sample : il4pest,42e,,pp8816

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/27/2018 3:56 pm

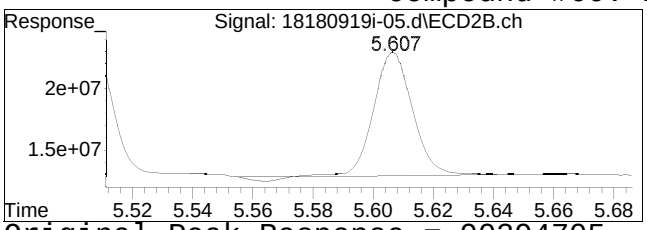
Compound #59: 4,4'-DDT #2

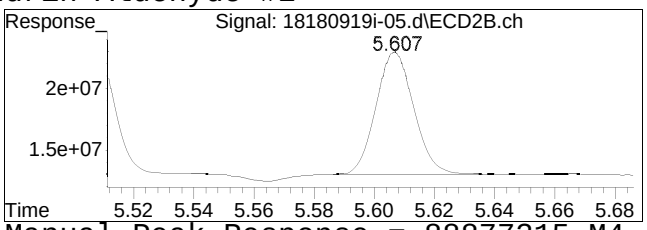




Original Peak Response = 102155663 Manual Peak Response = 103690396 M4
M4 = Poor automated baseline construction.

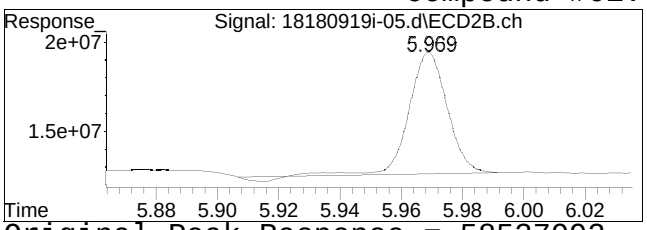
Compound #60: Endrin Aldehyde #2

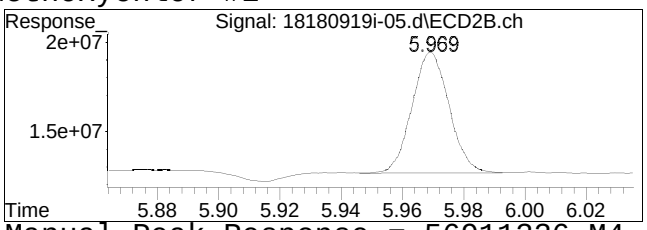




Original Peak Response = 90294705 Manual Peak Response = 88877315 M4
M4 = Poor automated baseline construction.

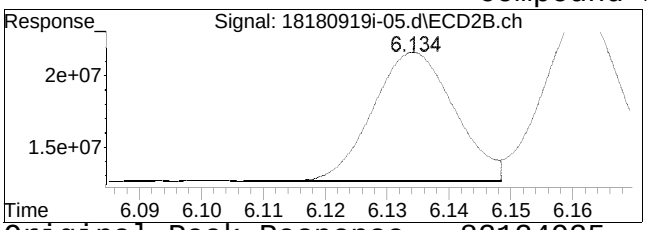
Compound #61: Methoxychlor #2

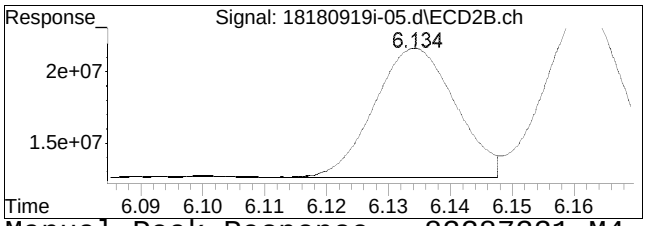




Original Peak Response = 58537992 Manual Peak Response = 56911336 M4
M4 = Poor automated baseline construction.

Compound #62: Mirex #2





Original Peak Response = 82124935 Manual Peak Response = 83287331 M4
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
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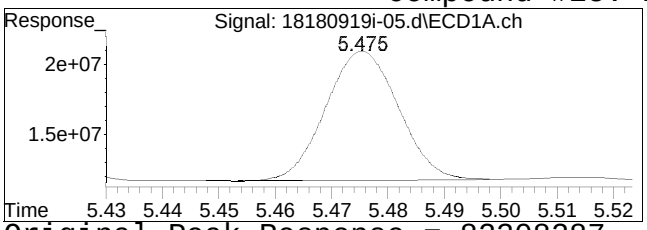
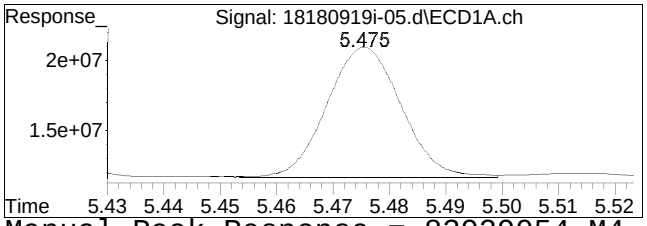
Date Inj'd : 9/19/2018 6:49 pm
Sample : il4pest,42e,,pp8816

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/27/2018 3:56 pm

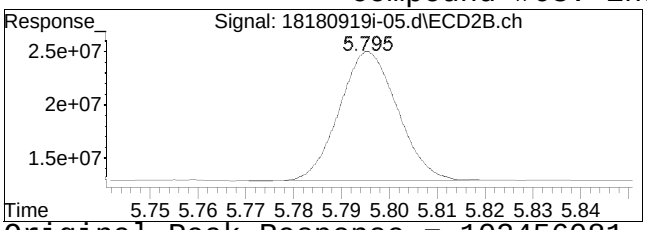
Compound #25: Endosulfan Sulfate

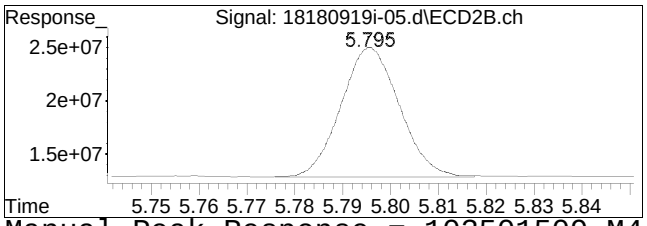




Original Peak Response = 82308287 Manual Peak Response = 83929054 M4
M4 = Poor automated baseline construction.

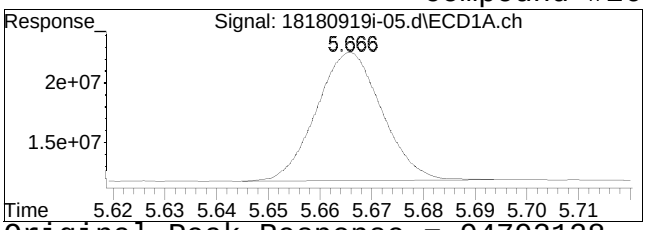
Compound #63: Endosulfan Sulfate #2

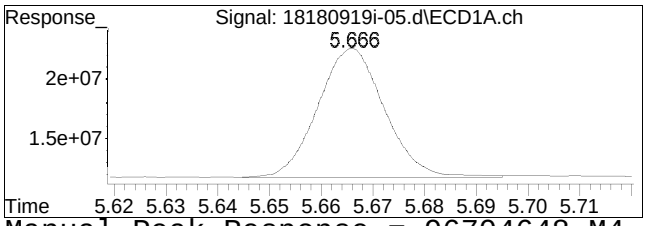




Original Peak Response = 102456081 Manual Peak Response = 103501509 M4
M4 = Poor automated baseline construction.

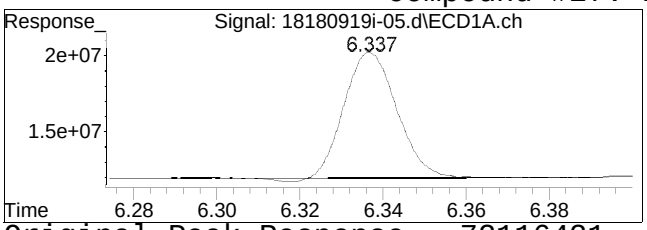
Compound #26: Endrin Ketone

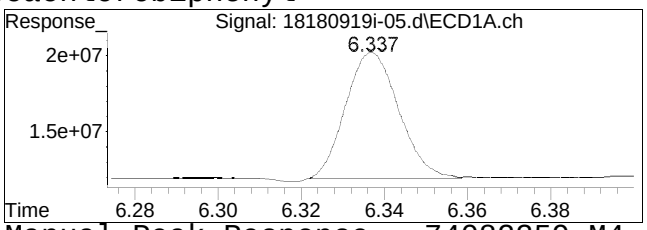




Original Peak Response = 94792128 Manual Peak Response = 96704648 M4
M4 = Poor automated baseline construction.

Compound #27: Decachlorobiphenyl





Original Peak Response = 72116421 Manual Peak Response = 74082359 M4
M4 = Poor automated baseline construction.

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Data Path : I:\Pest18\180919ical\
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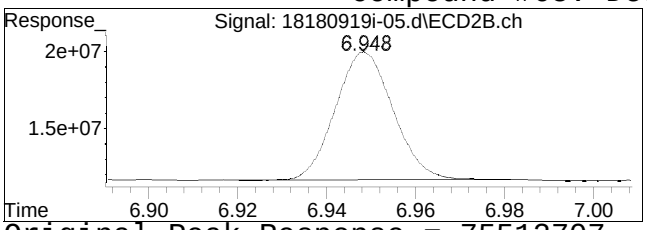
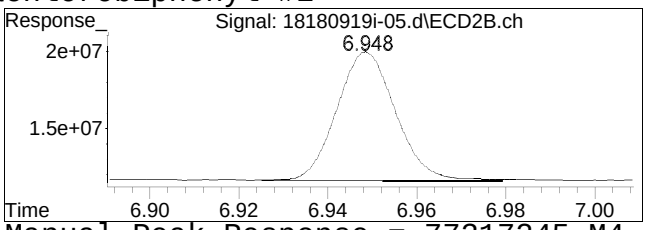
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/27/2018 3:56 pm

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 75512707 Manual Peak Response = 77317245 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-06.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Sep 2018 7:01 pm
Operator : PEST18:jw
Sample : il5pest,42e,,pp8817
Misc : wg1162772,ical (Sig #1); ical (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 15:56:27 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Thu Sep 27 15:50:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb...	1.882	2.002	529.4E6	630.1E6	25.000M4	25.000M4
28) i	1-br-2-nb...	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb...	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-T...	2.366	2.610	99532419	119.2E6	4.595M4	4.598M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		9.19%#	9.20%#
27) s	Decachlor...	6.336	6.947	98780832	94866650	5.111M4	4.531M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		10.22%#	9.06%#
	Target Compounds						
3)	Hexachlor...	2.623	2.966	104.1E6	122.3E6	4.760M4	4.713M4
4)	alpha-BHC	2.739	3.070	143.1E6	173.6E6	4.263M4	4.262M4
5)	gamma-BHC...	2.961	3.359	132.9E6	160.9E6	4.344M4	4.343M4
6)	beta-BHC	3.024	3.424	66563540	81351770	4.741M4	4.665M4
7)	delta-BHC	3.157	3.676	134.6E6	161.2E6	4.324M4	4.247M4
8)	Heptachlor	3.319	3.733	141.1E6	174.2E6	4.643M4	4.673M4
9)	Aldrin	3.555	4.016	119.1E6	145.8E6	4.418M4	4.406M4
10)	Alachlor	3.664	3.910	18484507	20387424	4.920M4	4.916M4
11)	Chlorpyrifos	3.750	4.193	77231184	92273586	5.004M4	4.893M4

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-06.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Sep 2018 7:01 pm
Operator : PEST18:jw
Sample : il5pest,42e,,pp8817
Misc : wg1162772,ical (Sig #1); ical (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 15:56:27 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Thu Sep 27 15:50:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
12)		Heptachlo...	4.043	4.484	118.2E6	137.3E6	4.700M4	4.556M4
13)		gamma-Chl...	4.145	4.632	122.8E6	149.9E6	4.476M4	4.473M4
14)		alpha-Chl...	4.249	4.744	120.1E6	138.2E6	4.508M4	4.417M4
15)		4,4'-DDE	4.313	4.863	111.2E6	131.2E6	4.391M4	4.291M4
16)		Endosulfan I	4.352	4.792	112.1E6	131.8E6	4.515	4.450
17)		Dieldrin	4.536	4.997	117.3E6	133.4E6	4.501M4	4.338M4
18)		Endrin	4.709	5.221	118.1E6	135.6E6	4.443M4	4.417M4
19)		4,4'-DDD	4.766	5.287	97908837	113.7E6	4.347M4	4.257M4
20)		Endosulfa...	4.874	5.373	111.5E6	129.6E6	4.592M4	4.554M4
21)		4,4'-DDT	4.971	5.507	108.8E6	125.3E6	4.396M4	4.369M4
22)		Endrin Al...	5.174	5.607	95640309	108.5E6	4.508M4	4.462M4
23)		Methoxychlor	5.324	5.969	63882883	70368456	4.783M4	4.788M4
24)		Mirex	5.411	6.134	94971771	102.5E6	4.768M4	4.873M4
25)		Endosulfa...	5.475	5.796	107.1E6	127.6E6	4.367M4	4.450M4
26)		Endrin Ke...	5.665	6.162	118.0E6	127.8E6	4.592M4	4.534M4
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-2	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
32)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-06.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Sep 2018 7:01 pm
Operator : PEST18:jw
Sample : il5pest,42e,,pp8817
Misc : wg1162772,ical (Sig #1); ical (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 15:56:27 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Thu Sep 27 15:50:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Sum chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

	Sum toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

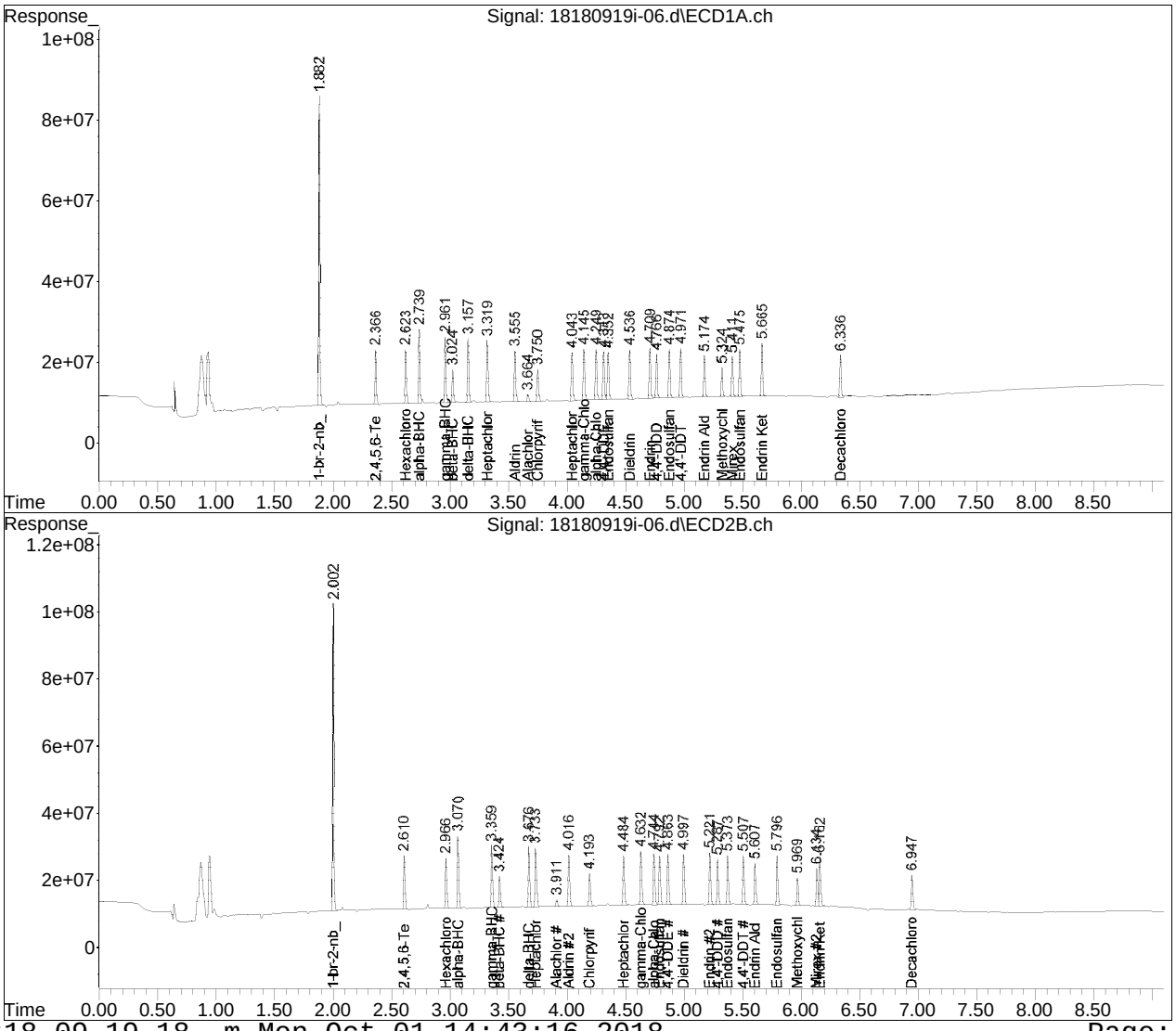
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-06.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Sep 2018 7:01 pm
Operator : PEST18:jw
Sample : il5pest,42e,,pp8817
Misc : wg1162772,ical (Sig #1); ical (Sig #2)
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 15:56:27 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Thu Sep 27 15:50:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

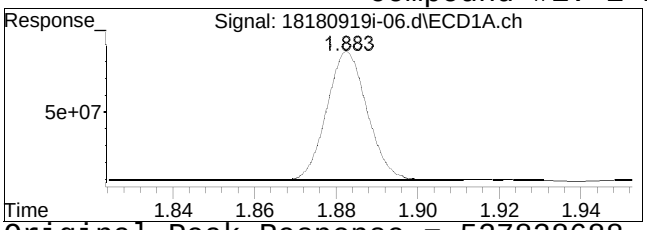


Manual Integration/Negative Proof Report

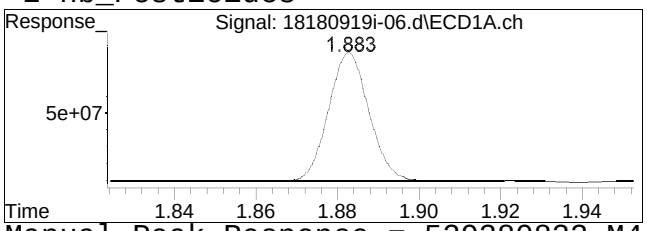
Data Path : I:\Pest18\180919ical\
Data File : 18180919i-06.d
Date Inj'd : 9/19/2018 7:01 pm
Sample : il5pest,42e,,pp8817

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/27/2018 3:50 pm

Compound #1: 1-br-2-nb_Pesticides



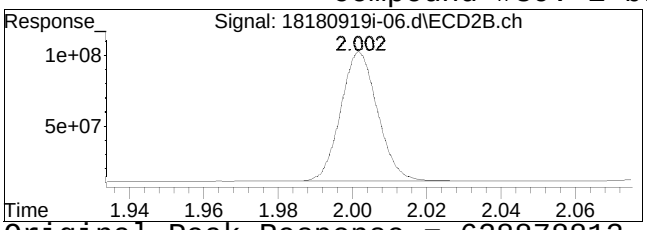
Original Peak Response = 527838688



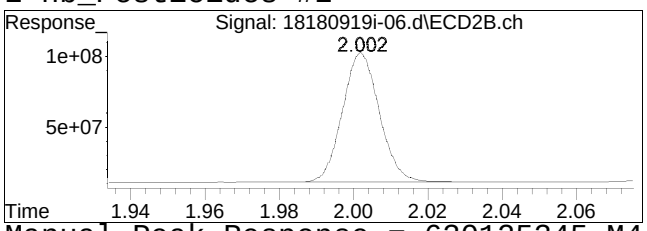
Manual Peak Response = 529380833 M4

M4 = Poor automated baseline construction.

Compound #39: 1-br-2-nb_Pesticides #2



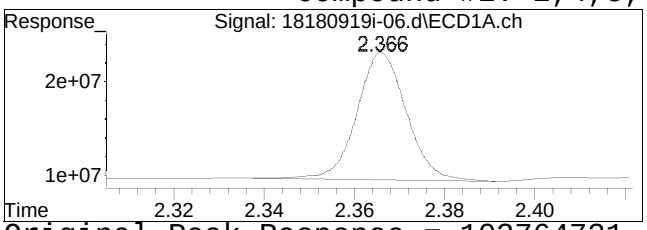
Original Peak Response = 628878813



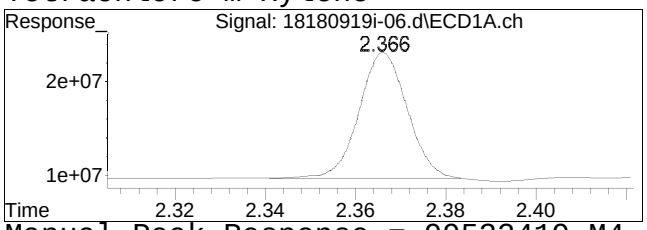
Manual Peak Response = 630125345 M4

M4 = Poor automated baseline construction.

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



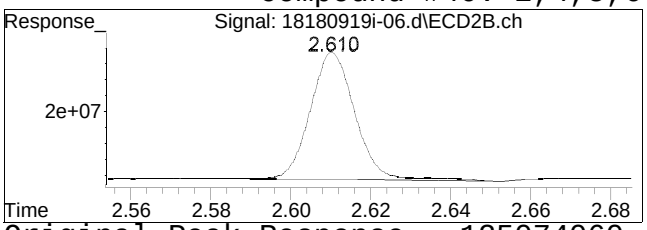
Original Peak Response = 103764731



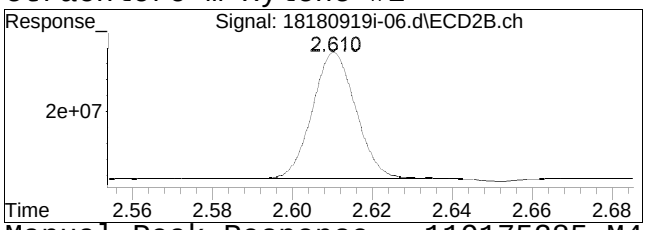
Manual Peak Response = 99532419 M4

M4 = Poor automated baseline construction.

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



Original Peak Response = 125074060



Manual Peak Response = 119175285 M4

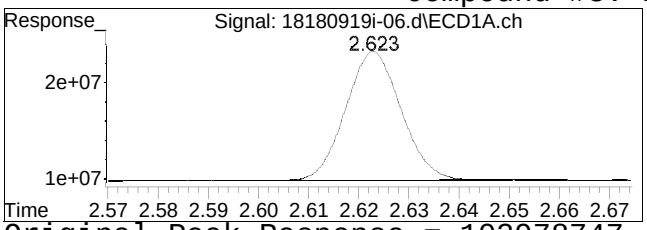
M4 = Poor automated baseline construction.

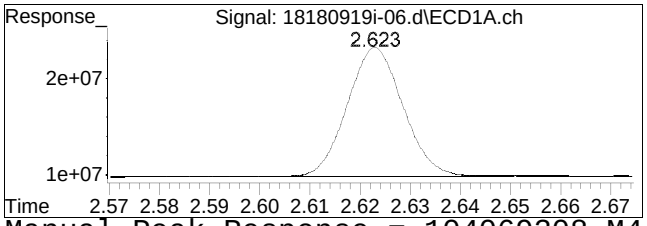
Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-06.d
Date Inj'd : 9/19/2018 7:01 pm
Sample : il5pest,42e,,pp8817

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/27/2018 3:50 pm

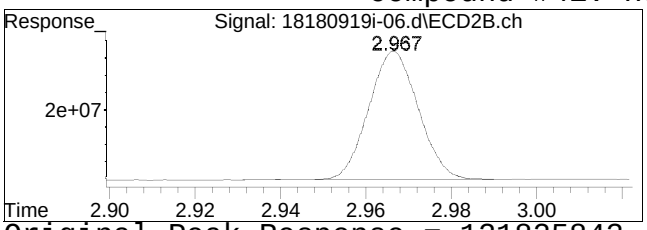
Compound #3: Hexachlorobenzene

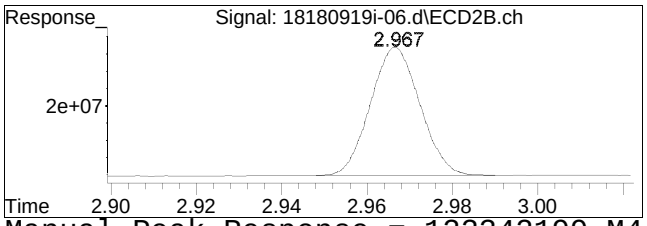




Original Peak Response = 102978747 Manual Peak Response = 104069308 M4
M4 = Poor automated baseline construction.

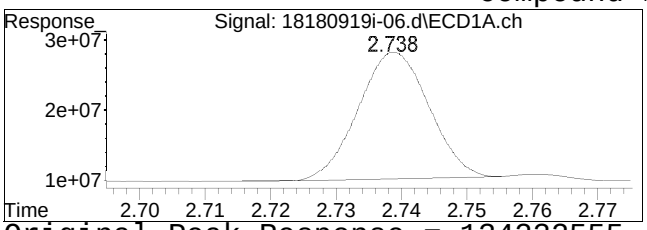
Compound #41: Hexachlorobenzene #2

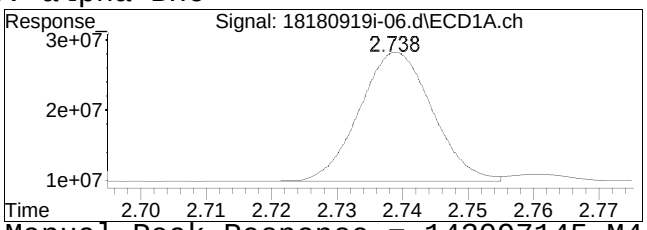




Original Peak Response = 121825843 Manual Peak Response = 122342199 M4
M4 = Poor automated baseline construction.

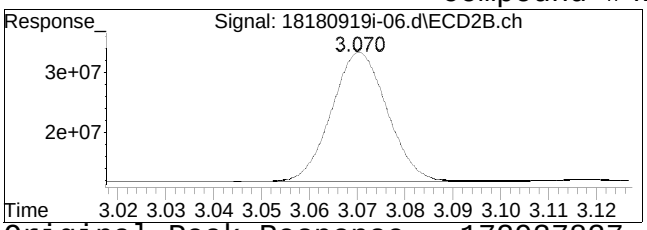
Compound #4: alpha-BHC

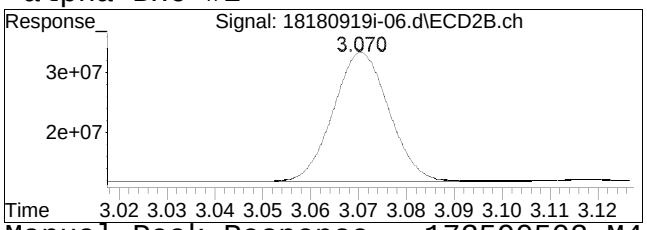




Original Peak Response = 134232555 Manual Peak Response = 143097145 M4
M4 = Poor automated baseline construction.

Compound #42: alpha-BHC #2





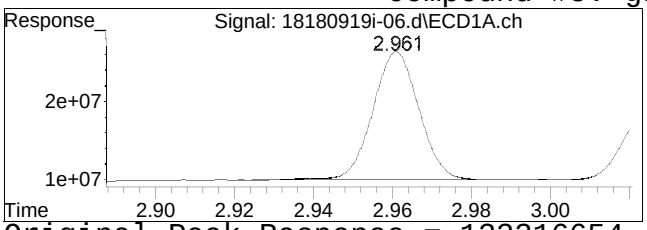
Original Peak Response = 172937837 Manual Peak Response = 173590502 M4
M4 = Poor automated baseline construction.

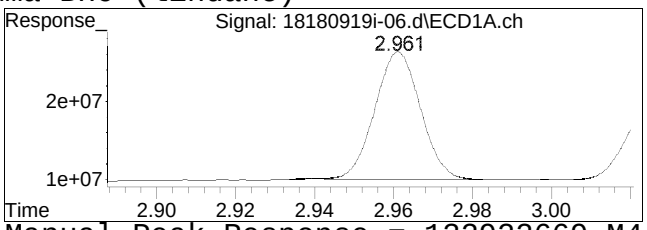
Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-06.d
Date Inj'd : 9/19/2018 7:01 pm
Sample : il5pest,42e,,pp8817

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/27/2018 3:50 pm

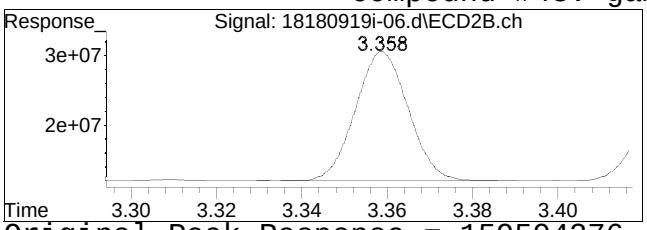
Compound #5: gamma-BHC (lindane)

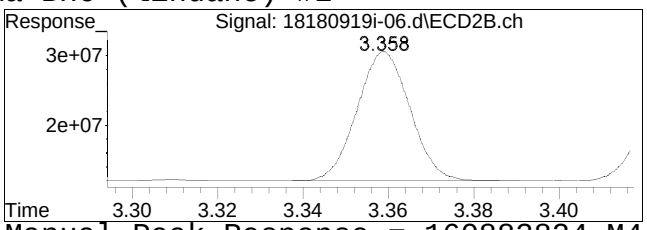




Original Peak Response = 133316654 Manual Peak Response = 132922669 M4
M4 = Poor automated baseline construction.

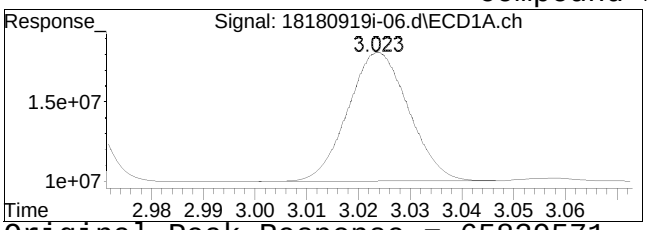
Compound #43: gamma-BHC (lindane) #2

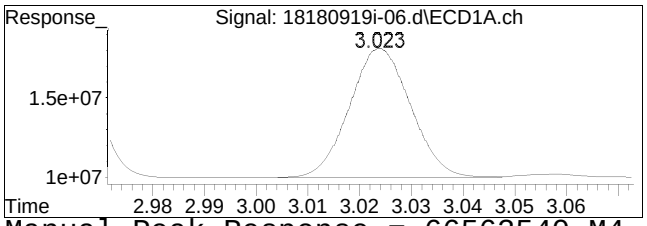




Original Peak Response = 159594276 Manual Peak Response = 160883824 M4
M4 = Poor automated baseline construction.

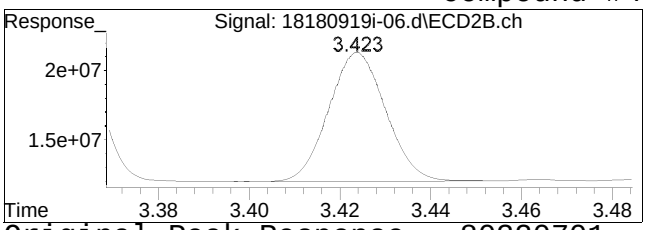
Compound #6: beta-BHC

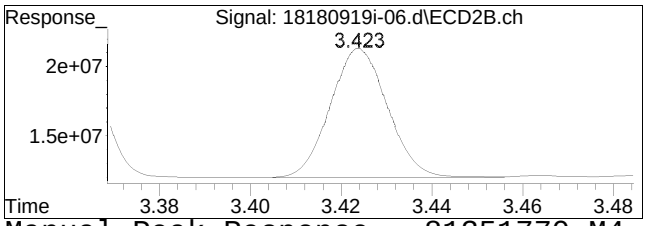




Original Peak Response = 65839571 Manual Peak Response = 66563540 M4
M4 = Poor automated baseline construction.

Compound #44: beta-BHC #2





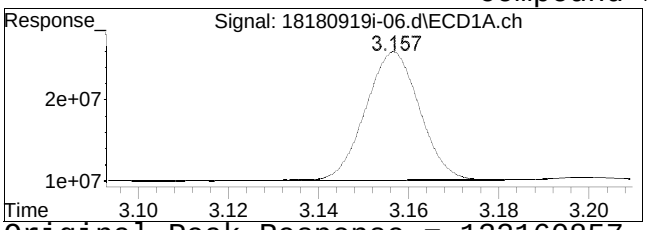
Original Peak Response = 80320701 Manual Peak Response = 81351770 M4
M4 = Poor automated baseline construction.

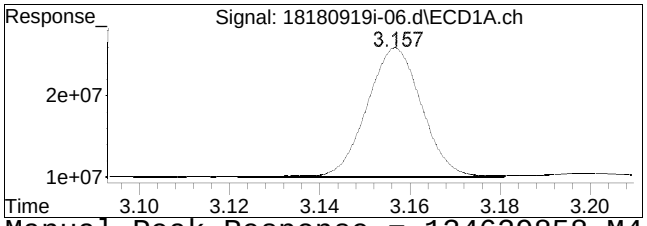
Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-06.d
Date Inj'd : 9/19/2018 7:01 pm
Sample : il5pest,42e,,pp8817

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/27/2018 3:50 pm

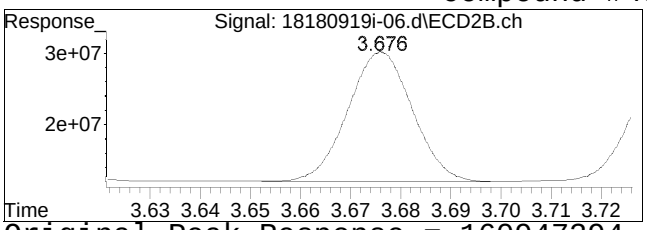
Compound #7: delta-BHC

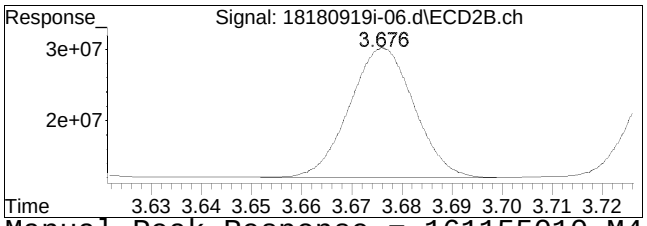




Original Peak Response = 132160857 Manual Peak Response = 134629858 M4
M4 = Poor automated baseline construction.

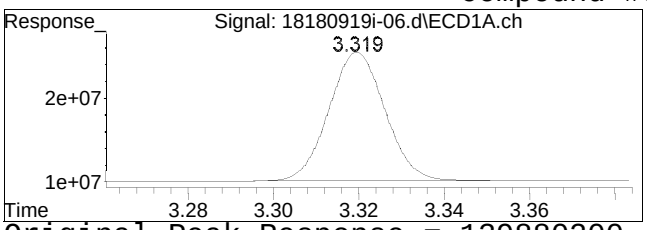
Compound #45: delta-BHC #2

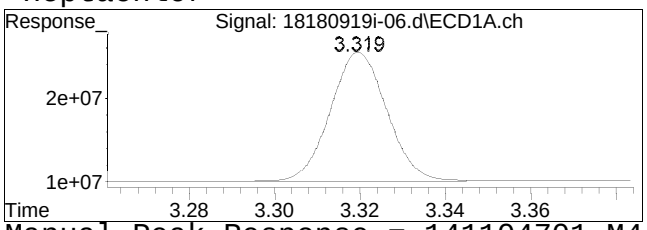




Original Peak Response = 160947394 Manual Peak Response = 161155010 M4
M4 = Poor automated baseline construction.

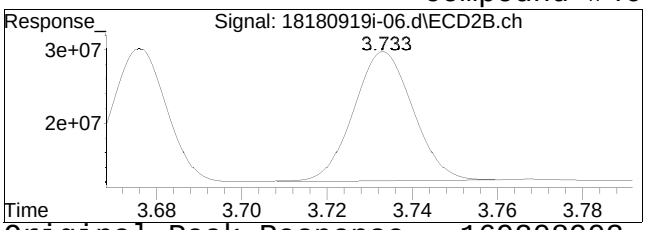
Compound #8: Heptachlor

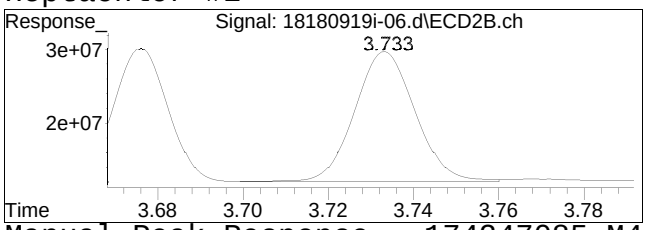




Original Peak Response = 139880200 Manual Peak Response = 141104701 M4
M4 = Poor automated baseline construction.

Compound #46: Heptachlor #2





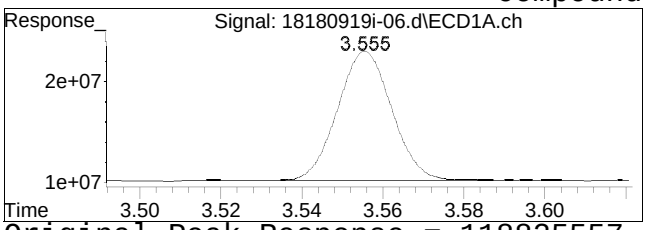
Original Peak Response = 169208903 Manual Peak Response = 174247085 M4
M4 = Poor automated baseline construction.

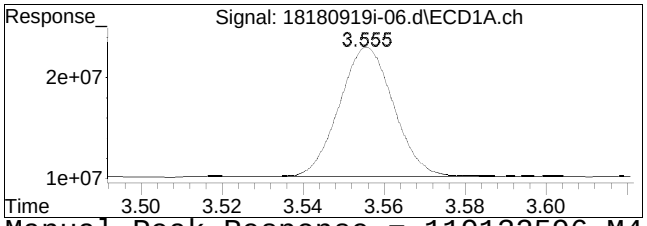
Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-06.d
Date Inj'd : 9/19/2018 7:01 pm
Sample : il5pest,42e,,pp8817

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/27/2018 3:50 pm

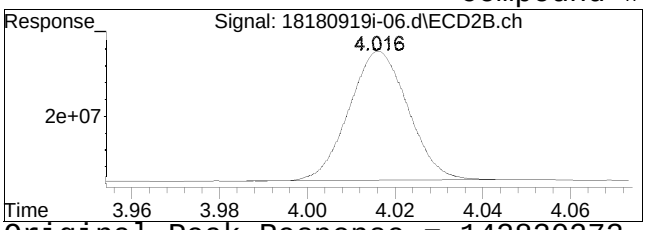
Compound #9: Aldrin

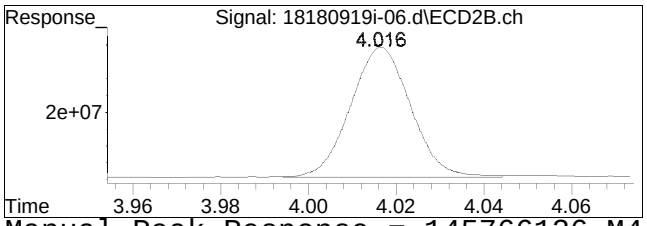




Original Peak Response = 118825557 Manual Peak Response = 119132596 M4
M4 = Poor automated baseline construction.

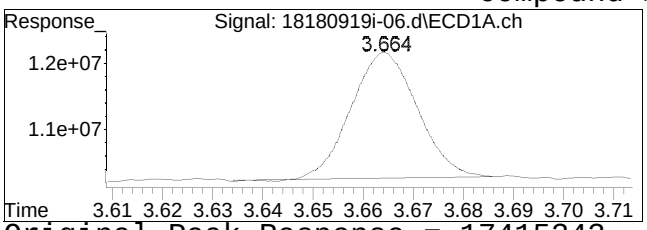
Compound #47: Aldrin #2

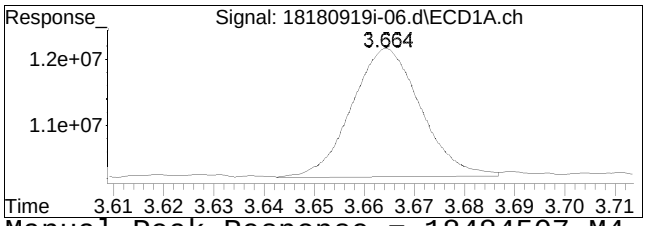




Original Peak Response = 142830273 Manual Peak Response = 145766126 M4
M4 = Poor automated baseline construction.

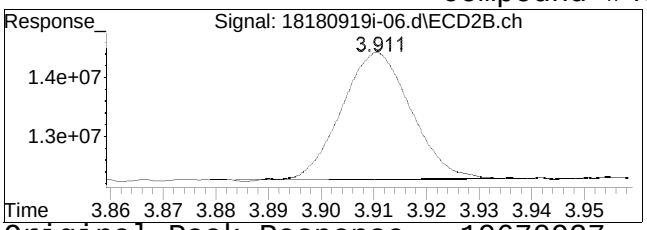
Compound #10: Alachlor

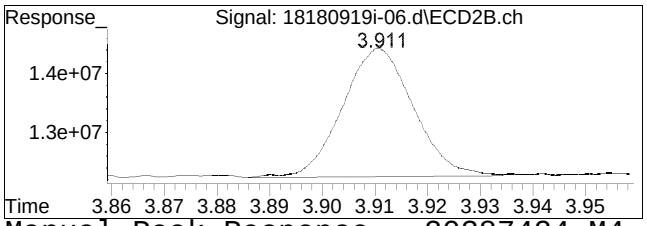




Original Peak Response = 17415343 Manual Peak Response = 18484507 M4
M4 = Poor automated baseline construction.

Compound #48: Alachlor #2





Original Peak Response = 19670927 Manual Peak Response = 20387424 M4
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
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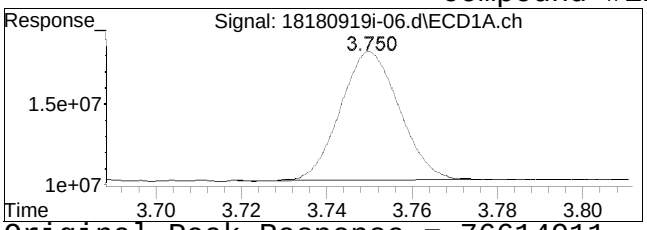
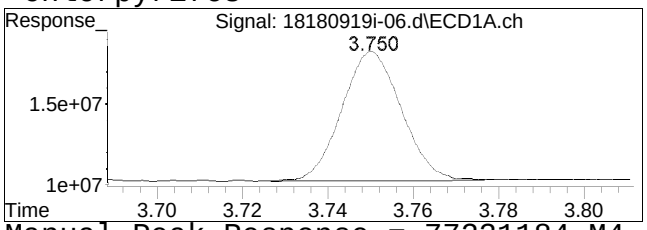
Date Inj'd : 9/19/2018 7:01 pm
Sample : il5pest,42e,,pp8817

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/27/2018 3:50 pm

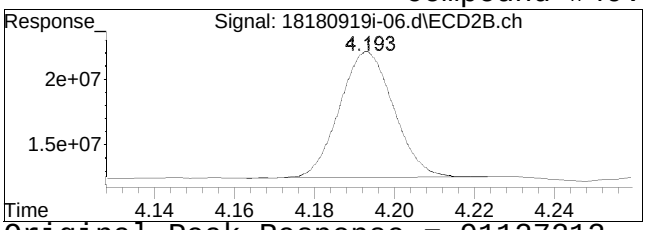
Compound #11: Chlorpyrifos

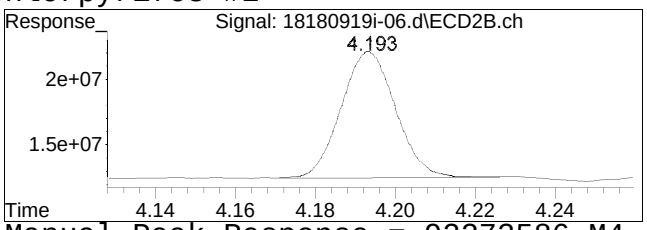




Original Peak Response = 76614911 Manual Peak Response = 77231184 M4
M4 = Poor automated baseline construction.

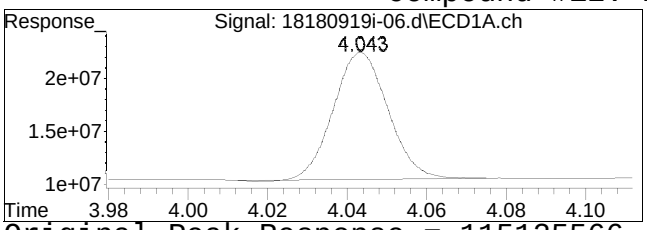
Compound #49: Chlorpyrifos #2

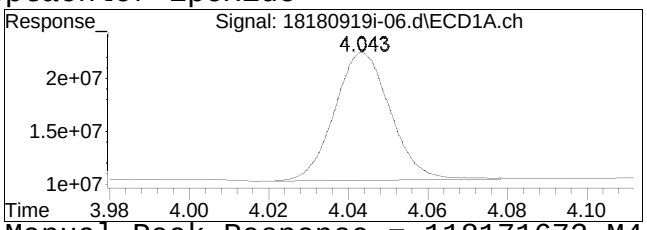




Original Peak Response = 91127212 Manual Peak Response = 92273586 M4
M4 = Poor automated baseline construction.

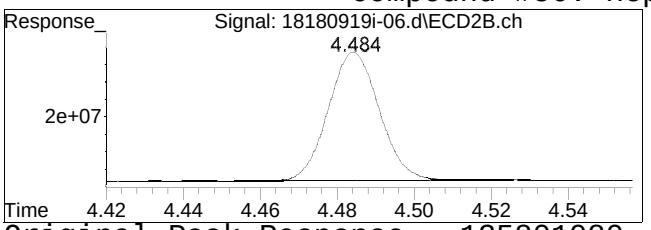
Compound #12: Heptachlor Epoxide

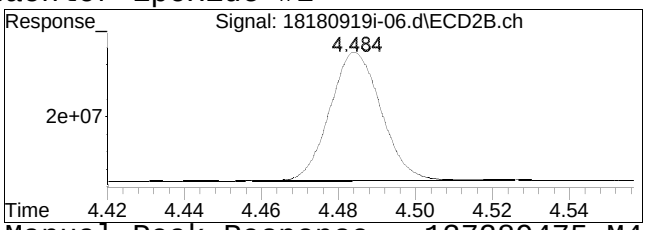




Original Peak Response = 115125566 Manual Peak Response = 118171673 M4
M4 = Poor automated baseline construction.

Compound #50: Heptachlor Epoxide #2





Original Peak Response = 135801080 Manual Peak Response = 137289475 M4
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
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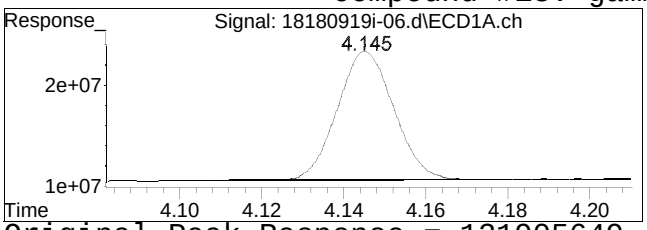
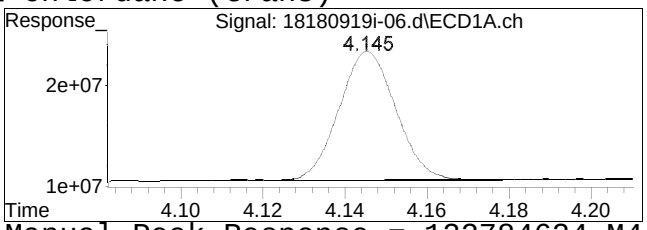
Sample : il5pest,42e,,pp8817

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/27/2018 3:50 pm

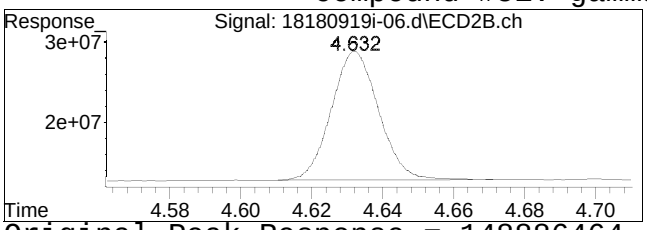
Compound #13: gamma-Chlordane (trans)

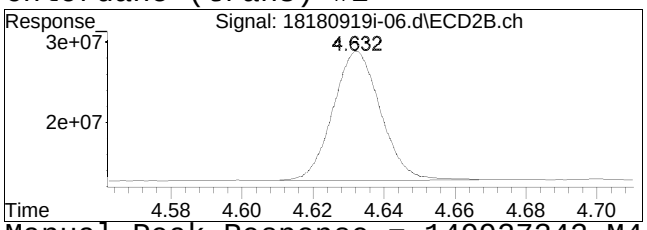




Original Peak Response = 121905649 Manual Peak Response = 122784624 M4
M4 = Poor automated baseline construction.

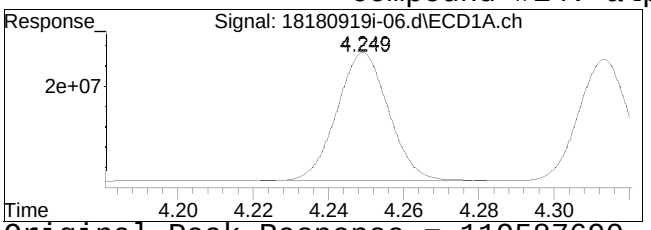
Compound #51: gamma-Chlordane (trans) #2

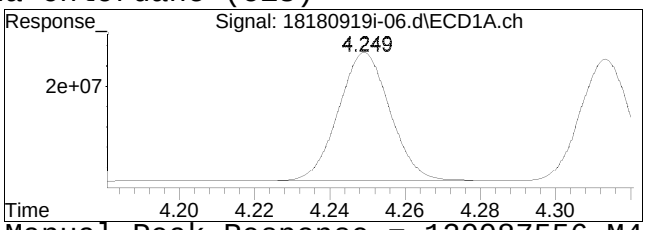




Original Peak Response = 148886464 Manual Peak Response = 149927343 M4
M4 = Poor automated baseline construction.

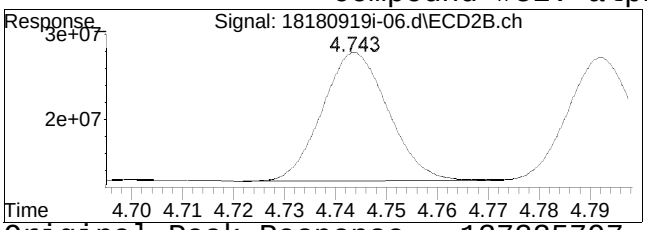
Compound #14: alpha-Chlordane (cis)

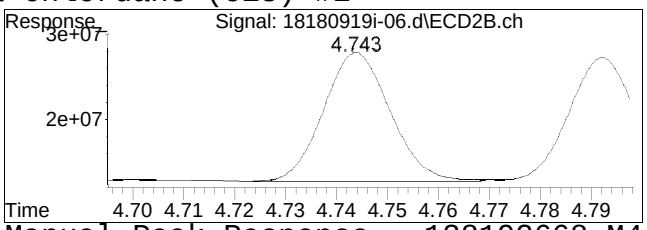




Original Peak Response = 119587690 Manual Peak Response = 120087556 M4
M4 = Poor automated baseline construction.

Compound #52: alpha-Chlordane (cis) #2





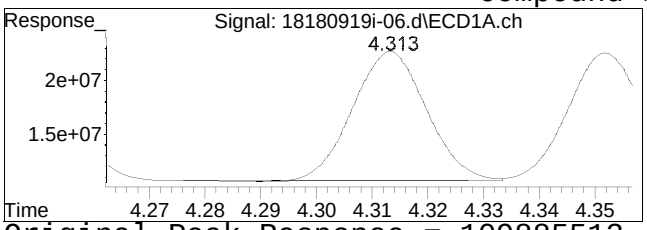
Original Peak Response = 137335797 Manual Peak Response = 138192668 M4
M4 = Poor automated baseline construction.

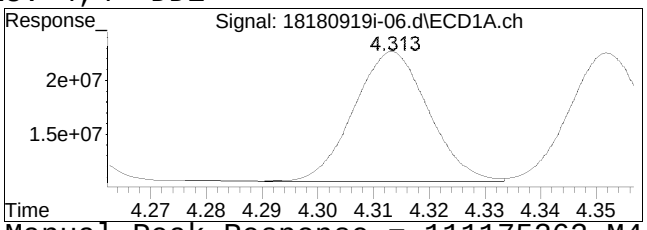
Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-06.d
Date Inj'd : 9/19/2018 7:01 pm
Sample : il5pest,42e,,pp8817

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/27/2018 3:50 pm

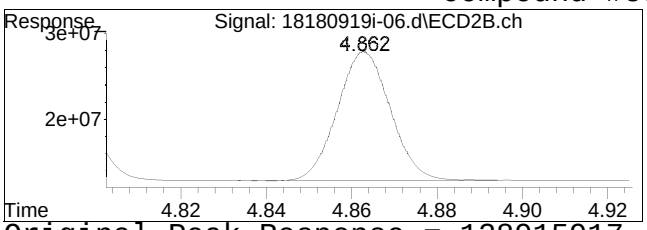
Compound #15: 4,4'-DDE

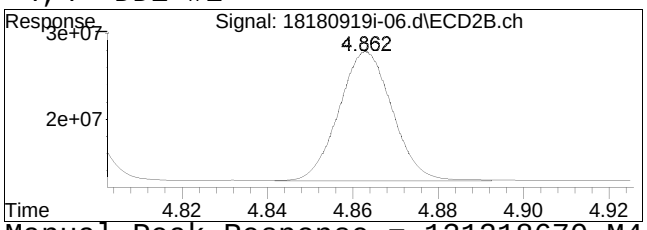




Original Peak Response = 109885513 Manual Peak Response = 111175263 M4
M4 = Poor automated baseline construction.

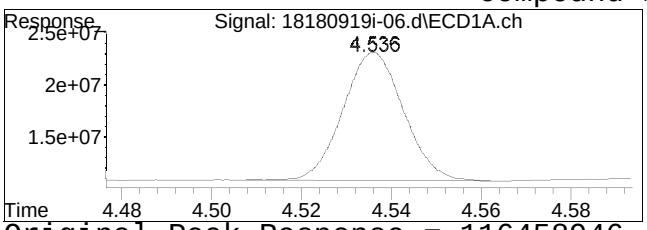
Compound #53: 4,4'-DDE #2

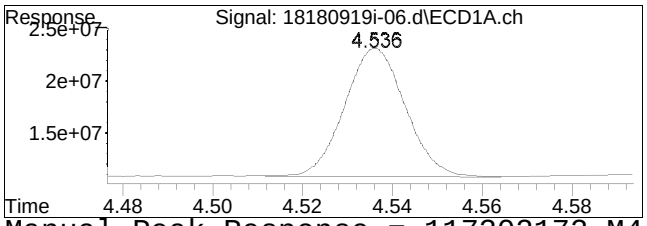




Original Peak Response = 128915917 Manual Peak Response = 131218670 M4
M4 = Poor automated baseline construction.

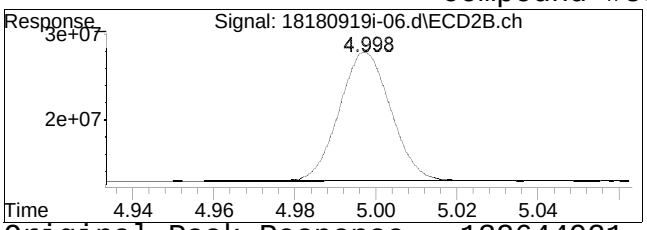
Compound #17: Dieldrin

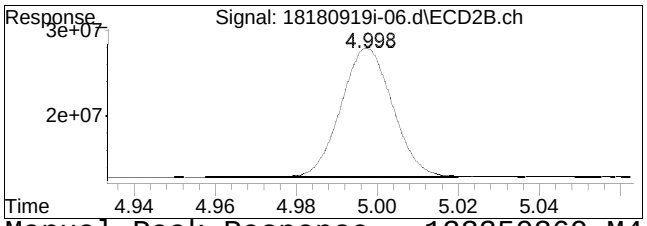




Original Peak Response = 116458946 Manual Peak Response = 117302172 M4
M4 = Poor automated baseline construction.

Compound #55: Dieldrin #2





Original Peak Response = 132644921 Manual Peak Response = 133350369 M4
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
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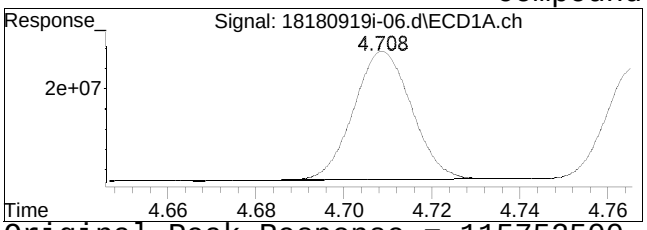
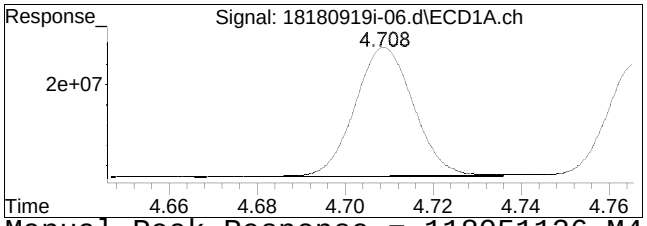
Sample : il5pest,42e,,pp8817

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/27/2018 3:50 pm

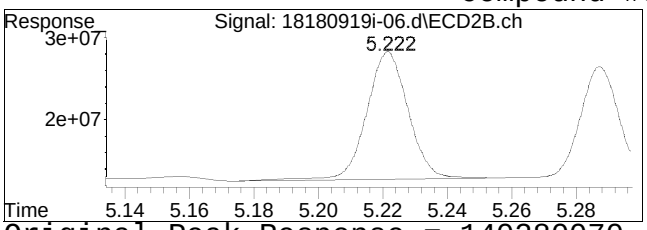
Compound #18: Endrin

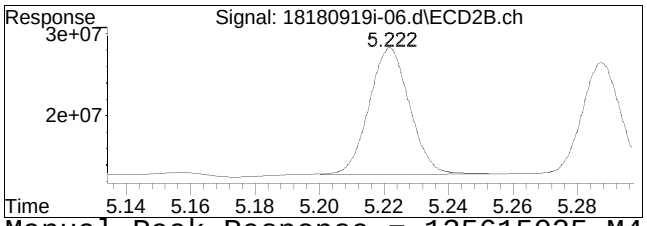




Original Peak Response = 115752500 Manual Peak Response = 118051126 M4
M4 = Poor automated baseline construction.

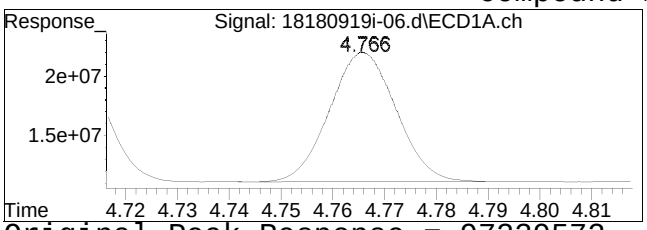
Compound #56: Endrin #2

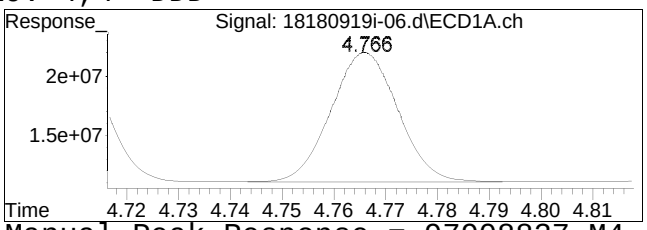




Original Peak Response = 140280070 Manual Peak Response = 135615025 M4
M4 = Poor automated baseline construction.

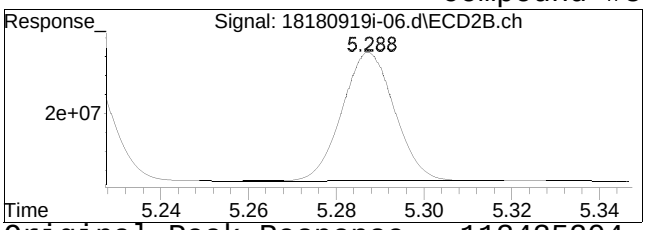
Compound #19: 4,4'-DDD

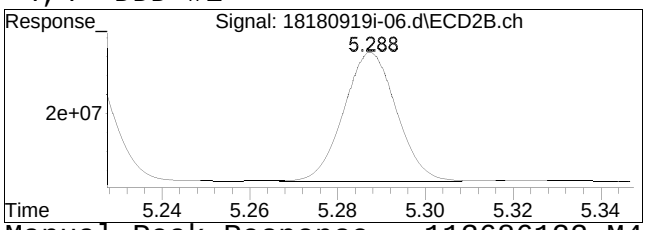




Original Peak Response = 97239572 Manual Peak Response = 97908837 M4
M4 = Poor automated baseline construction.

Compound #57: 4,4'-DDD #2





Original Peak Response = 113435204 Manual Peak Response = 113686122 M4
M4 = Poor automated baseline construction.

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Data Path : I:\Pest18\180919ical\
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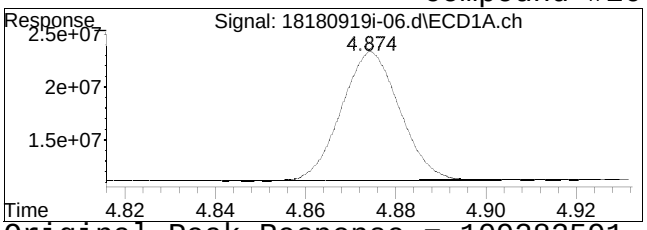
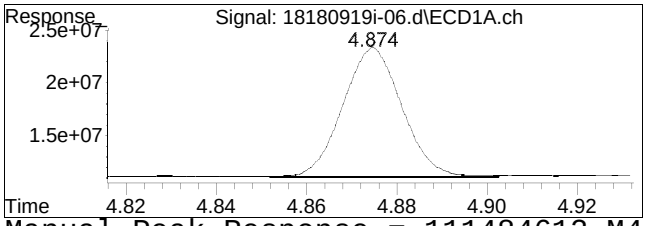
Instrument : Pest 18
Quant Date : 9/27/2018 3:50 pm

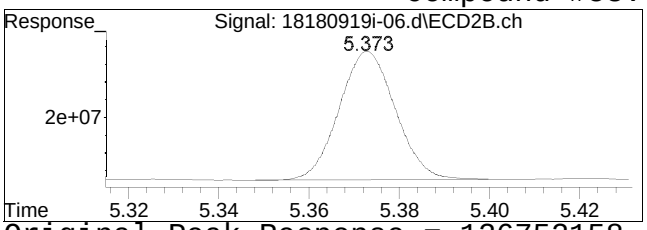
Compound #20: Endosulfan II

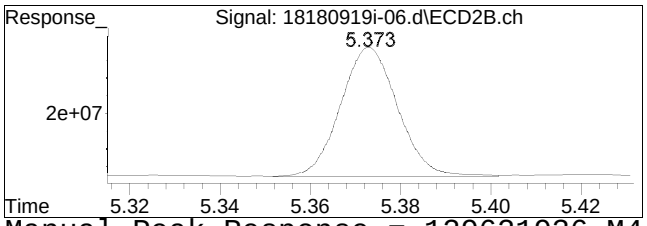




Original Peak Response = 109283591 Manual Peak Response = 111484612 M4
M4 = Poor automated baseline construction.

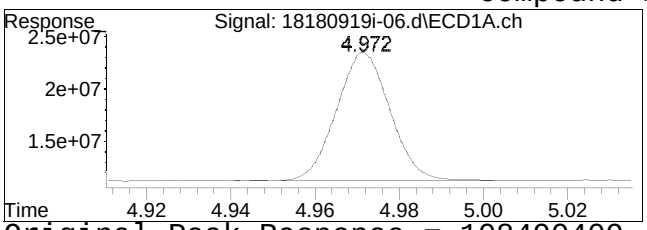
Compound #58: Endosulfan II #2

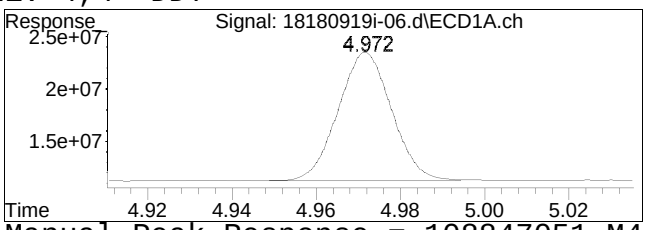




Original Peak Response = 126752158 Manual Peak Response = 129621936 M4
M4 = Poor automated baseline construction.

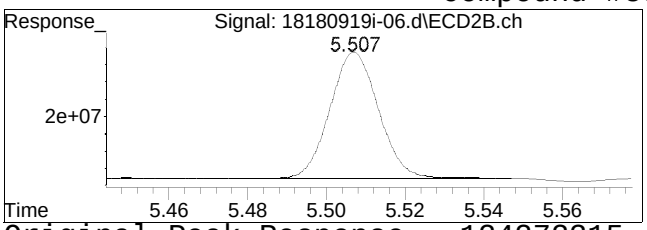
Compound #21: 4,4'-DDT

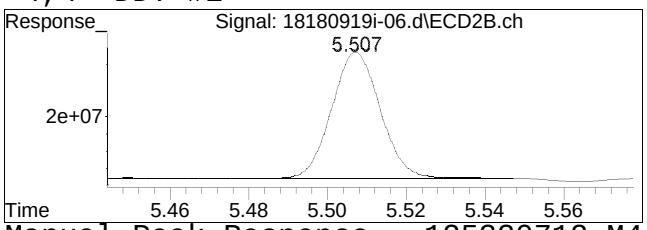




Original Peak Response = 108490409 Manual Peak Response = 108847051 M4
M4 = Poor automated baseline construction.

Compound #59: 4,4'-DDT #2





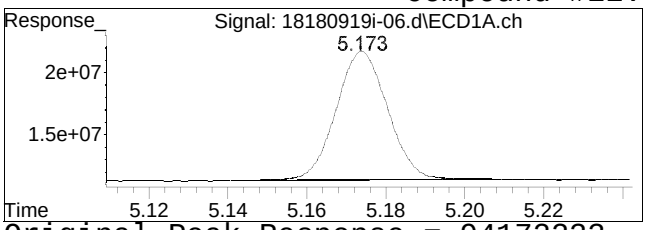
Original Peak Response = 124272315 Manual Peak Response = 125330712 M4
M4 = Poor automated baseline construction.

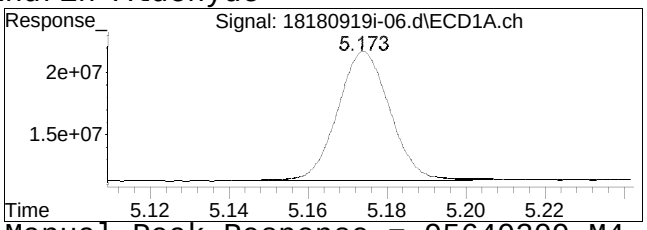
Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-06.d
Date Inj'd : 9/19/2018 7:01 pm
Sample : il5pest,42e,,pp8817

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/27/2018 3:50 pm

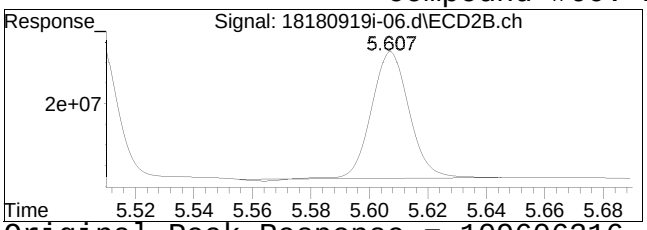
Compound #22: Endrin Aldehyde

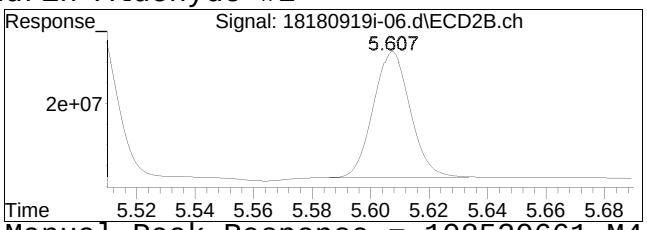




Original Peak Response = 94172233 Manual Peak Response = 95640309 M4
M4 = Poor automated baseline construction.

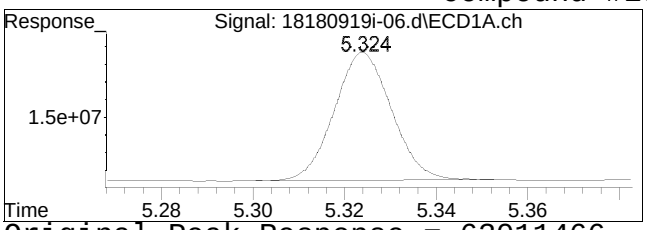
Compound #60: Endrin Aldehyde #2

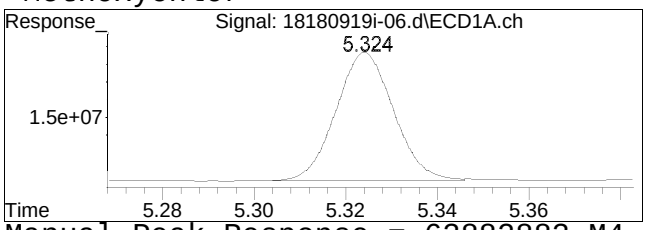




Original Peak Response = 109606316 Manual Peak Response = 108520661 M4
M4 = Poor automated baseline construction.

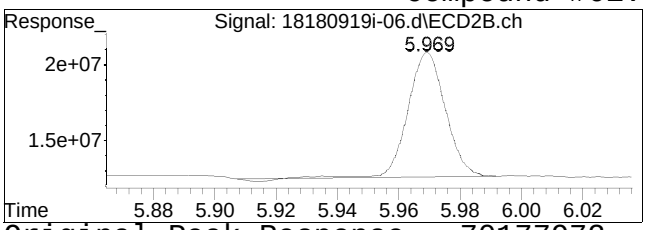
Compound #23: Methoxychlor

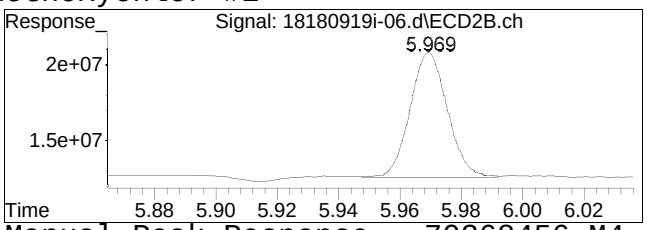




Original Peak Response = 63011466 Manual Peak Response = 63882883 M4
M4 = Poor automated baseline construction.

Compound #61: Methoxychlor #2





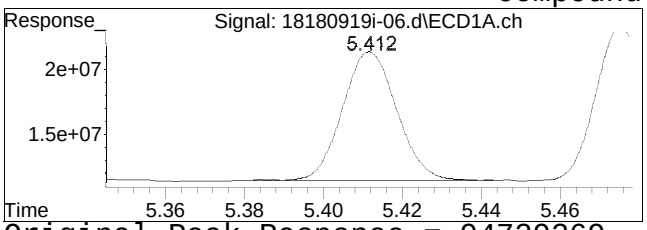
Original Peak Response = 70177972 Manual Peak Response = 70368456 M4
M4 = Poor automated baseline construction.

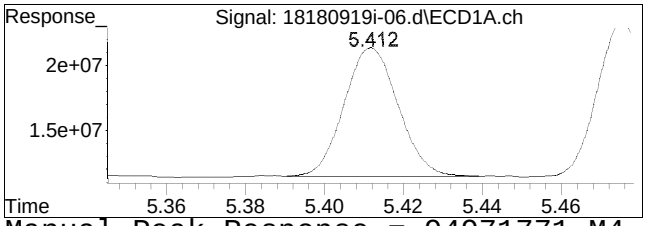
Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-06.d
Date Inj'd : 9/19/2018 7:01 pm
Sample : il5pest,42e,,pp8817

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/27/2018 3:50 pm

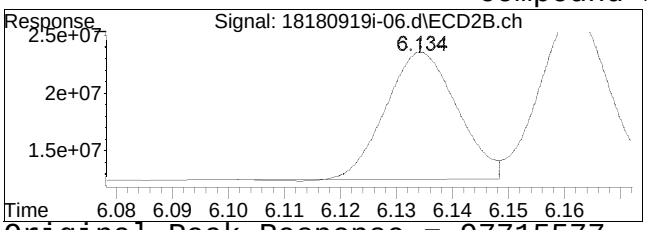
Compound #24: Mirex

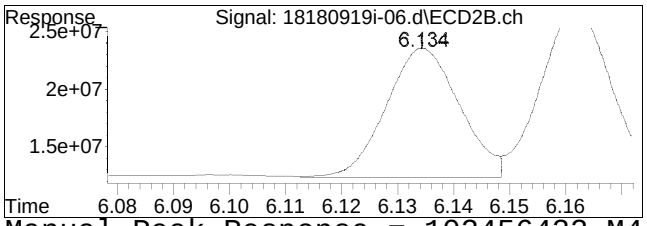




Original Peak Response = 94729269 Manual Peak Response = 94971771 M4
M4 = Poor automated baseline construction.

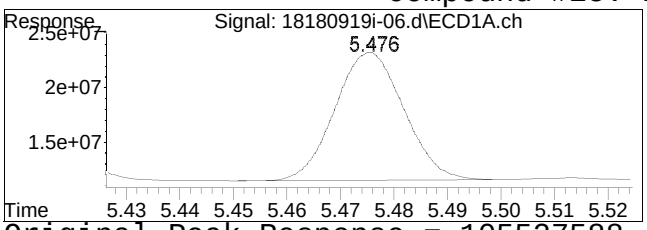
Compound #62: Mirex #2

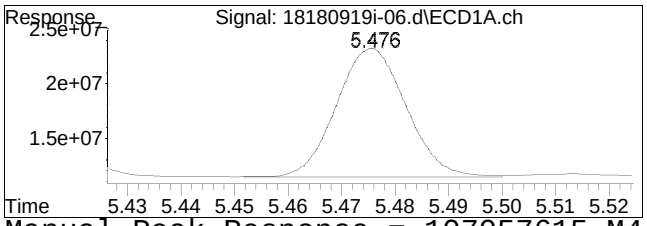




Original Peak Response = 97715577 Manual Peak Response = 102456422 M4
M4 = Poor automated baseline construction.

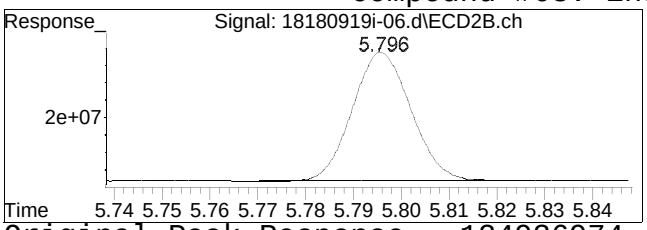
Compound #25: Endosulfan Sulfate

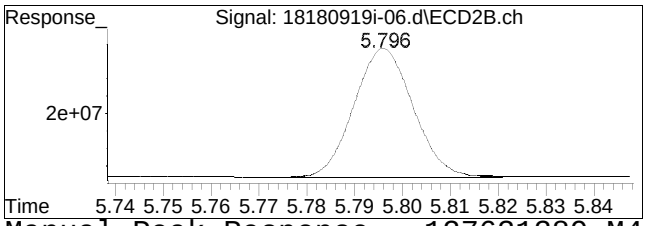




Original Peak Response = 105527588 Manual Peak Response = 107057615 M4
M4 = Poor automated baseline construction.

Compound #63: Endosulfan Sulfate #2





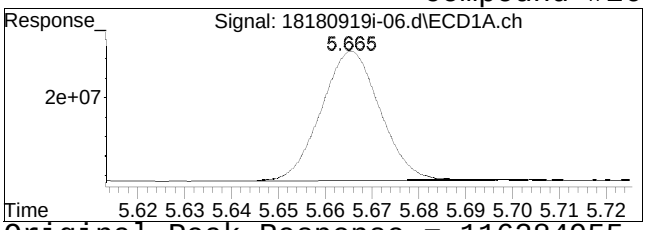
Original Peak Response = 124936974 Manual Peak Response = 127631389 M4
M4 = Poor automated baseline construction.

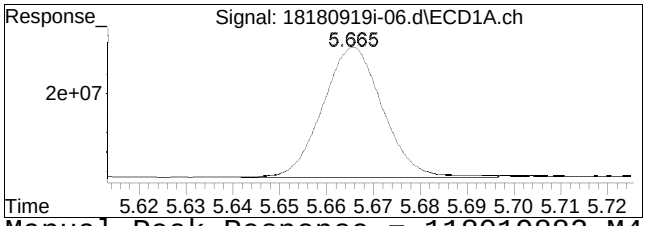
Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-06.d
Date Inj'd : 9/19/2018 7:01 pm
Sample : il5pest,42e,,pp8817

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/27/2018 3:50 pm

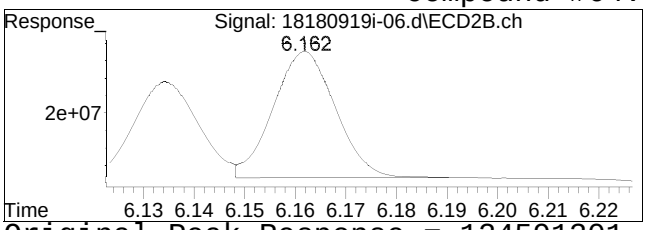
Compound #26: Endrin Ketone

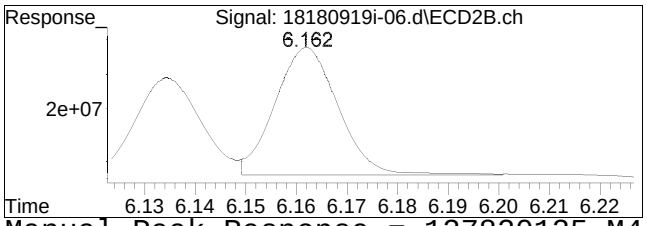




Original Peak Response = 116284955 Manual Peak Response = 118019882 M4
M4 = Poor automated baseline construction.

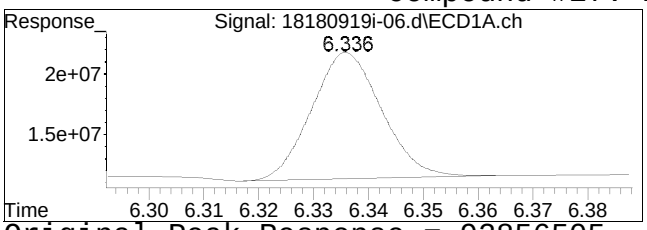
Compound #64: Endrin Ketone #2

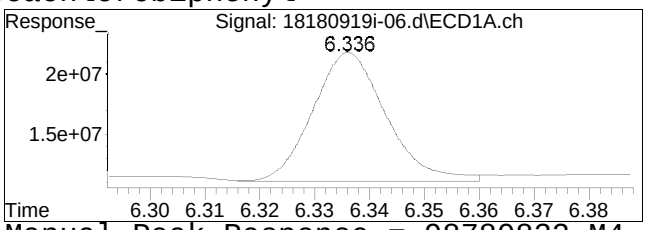




Original Peak Response = 124591301 Manual Peak Response = 127820125 M4
M4 = Poor automated baseline construction.

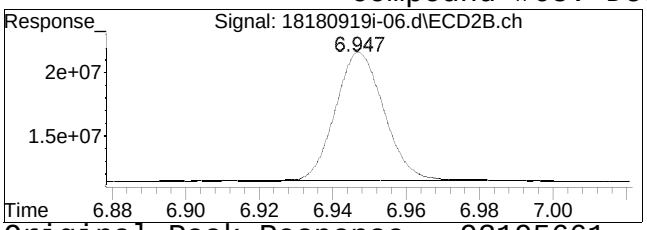
Compound #27: Decachlorobiphenyl

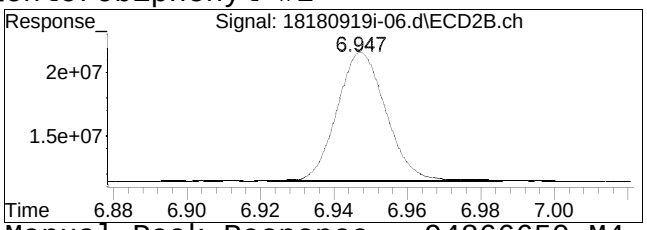




Original Peak Response = 92856505 Manual Peak Response = 98780832 M4
M4 = Poor automated baseline construction.

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 93195661 Manual Peak Response = 94866650 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-07.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Sep 2018 7:14 pm
Operator : PEST18:jw
Sample : il6pest,42e,,pp8818
Misc : wg1162772,ical (Sig #1); ical (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 15:50:10 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Wed Sep 26 17:17:37 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb...	1.882	2.002	522.2E6	626.2E6	25.000M4	25.000M4
28) i	1-br-2-nb...	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb...	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-T...	2.366	2.611	120.0E6	145.7E6	5.792M4	5.851
	Spiked Amount 50.000	Range 30 - 150		Recovery =		11.58%#	11.70%#
27) s	Decachlor...	6.335	6.946	108.2E6	122.7E6	5.876M4	6.175M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		11.75%#	12.35%#
	Target Compounds						
3)	Hexachlor...	2.622	2.967	124.4E6	149.3E6	6.000M4	6.023M4
4)	alpha-BHC	2.738	3.070	175.2E6	214.9E6	5.368M4	5.393M4
5)	gamma-BHC...	2.960	3.359	162.8E6	198.8E6	5.503M4	5.512
6)	beta-BHC	3.023	3.424	80346037	99954961	6.043M4	5.998M4
7)	delta-BHC	3.155	3.676	164.5E6	200.6E6	5.454M4	5.405M4
8)	Heptachlor	3.319	3.733	171.4E6	212.8E6	5.929M4	5.965M4
9)	Aldrin	3.555	4.016	145.3E6	182.2E6	5.592M4	5.695M4
10)	Alachlor	3.663	3.910	22379118	25516096	6.369M4	6.583M4
11)	Chlorpyrifos	3.749	4.193	93678968	114.6E6	6.529M4	6.478M4
12)	Heptachlo...	4.043	4.484	142.8E6	171.5E6	5.983M4	5.943M4

Quantitation Report (QT Reviewed)

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-07.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Sep 2018 7:14 pm
Operator : PEST18:jw
Sample : il6pest,42e,,pp8818
Misc : wg1162772,ical (Sig #1); ical (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 15:50:10 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Wed Sep 26 17:17:37 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
13)	gamma-Chl...	4.145	4.632	150.2E6	187.5E6	5.707M4	5.812M4
14)	alpha-Chl...	4.248	4.744	147.6E6	175.0E6	5.798M4	5.811M4
15)	4,4'-DDE	4.312	4.863	135.3E6	162.5E6	5.530M4	5.440M4
16)	Endosulfan I	4.351	4.792	138.4E6	165.6E6	5.845M4	5.808M4
17)	Dieldrin	4.535	4.997	142.0E6	166.9E6	5.671M4	5.594M4
18)	Endrin	4.708	5.221	146.0E6	168.7E6	5.734M4	5.680M4
19)	4,4'-DDD	4.765	5.287	121.0E6	142.4E6	5.570M4	5.464M4
20)	Endosulfa...	4.874	5.373	136.4E6	159.8E6	5.898M4	5.838M4
21)	4,4'-DDT	4.970	5.507	134.0E6	154.7E6	5.623M4	5.543M4
22)	Endrin Al...	5.173	5.607	117.6E6	134.7E6	5.796M4	5.737M4
23)	Methoxychlor	5.323	5.969	81099665	85493903	6.533M4	6.115M4
24)	Mirex	5.411	6.134	117.5E6	126.7E6	6.286M4	6.407M4
25)	Endosulfa...	5.474	5.796	133.9E6	157.5E6	5.690M4	5.674M4
26)	Endrin Ke...	5.665	6.162	143.4E6	156.9E6	5.848	5.772
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-07.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Sep 2018 7:14 pm
Operator : PEST18:jw
Sample : il6pest,42e,,pp8818
Misc : wg1162772,ical (Sig #1); ical (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 15:50:10 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Wed Sep 26 17:17:37 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
34) l2 toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2 toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2 toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2 toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum toxaphene-1			0	0	N.D.	N.D.
Average toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum toxaphene-1			0	0	N.D.	N.D.
Average toxaphene-1					0.000	0.000

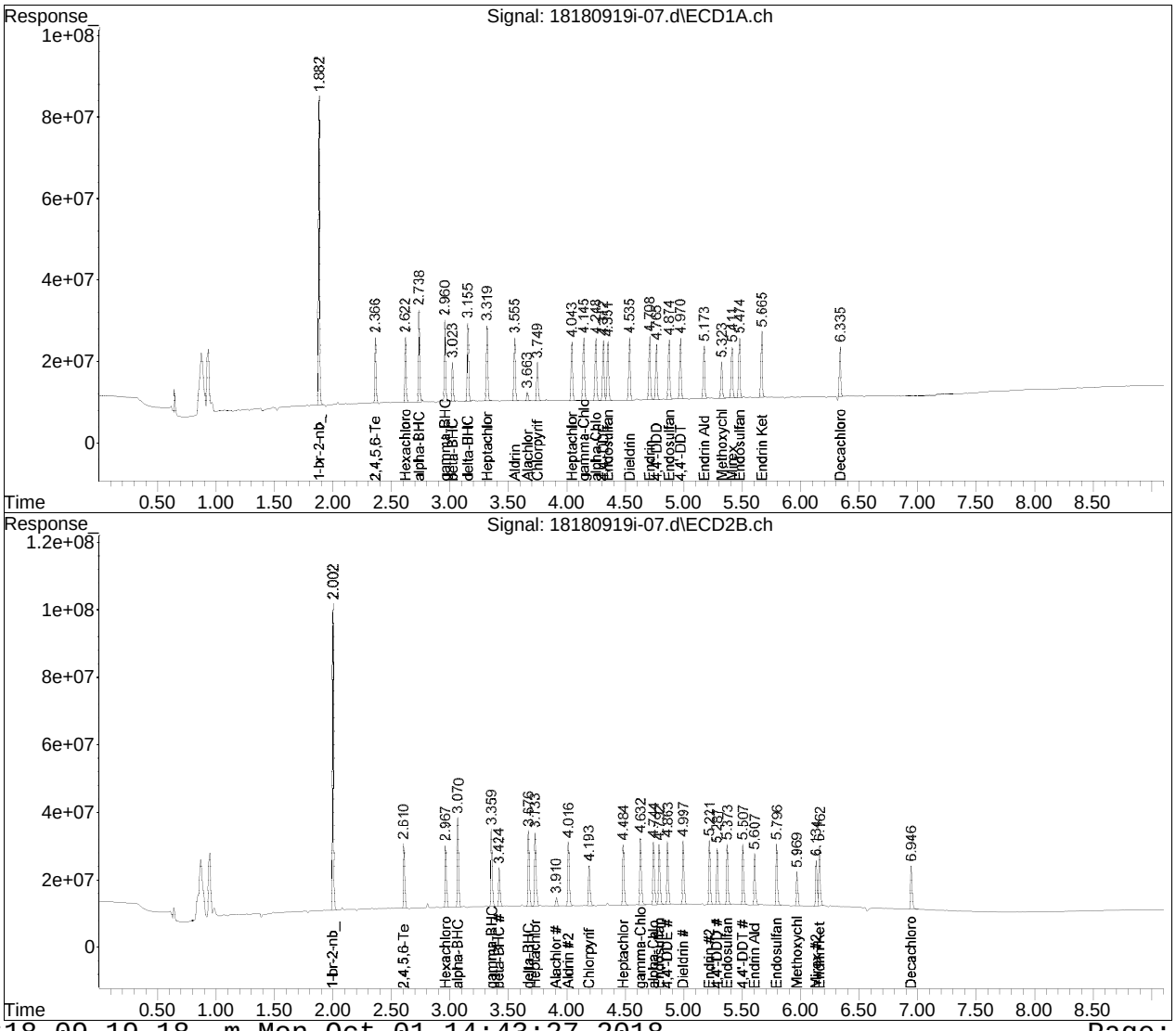
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-07.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Sep 2018 7:14 pm
Operator : PEST18:jw
Sample : il6pest,42e,,pp8818
Misc : wg1162772,ical (Sig #1); ical (Sig #2)
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 15:50:10 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Wed Sep 26 17:17:37 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

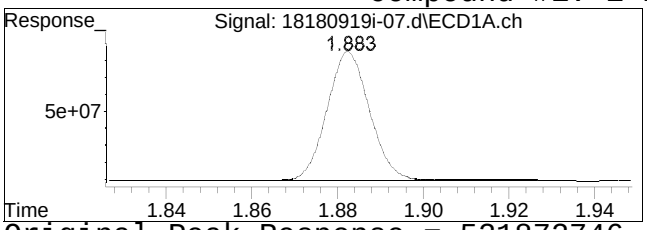


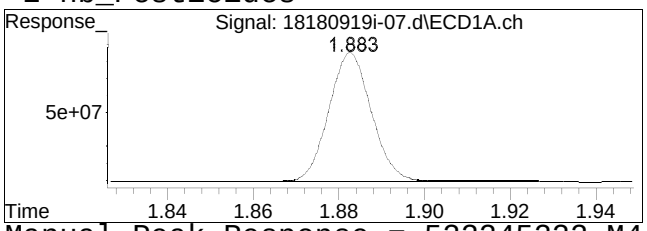
Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-07.d
Date Inj'd : 9/19/2018 7:14 pm
Sample : il6pest,42e,,pp8818

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/26/2018 5:17 pm

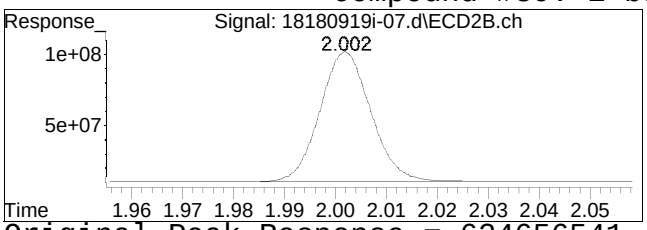
Compound #1: 1-br-2-nb_Pesticides

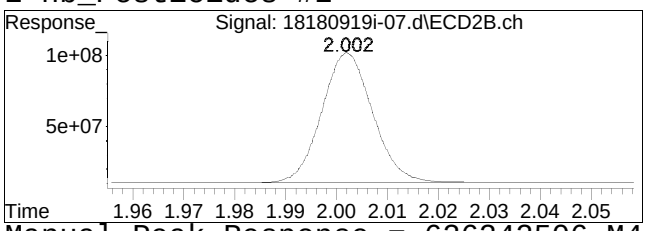




Original Peak Response = 521872746 Manual Peak Response = 522245222 M4
M4 = Poor automated baseline construction.

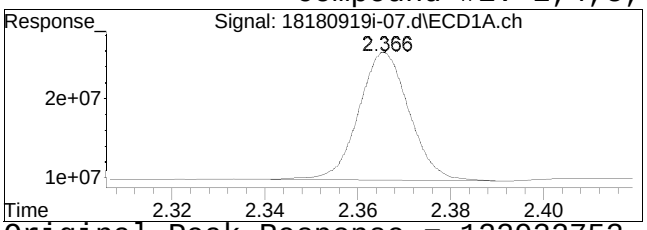
Compound #39: 1-br-2-nb_Pesticides #2

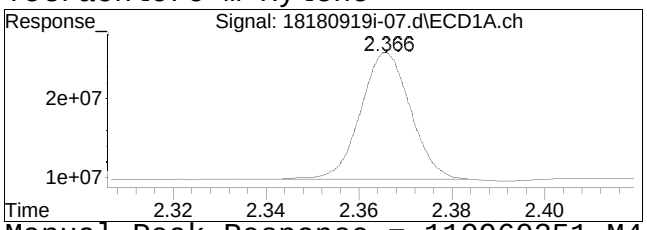




Original Peak Response = 624656541 Manual Peak Response = 626242506 M4
M4 = Poor automated baseline construction.

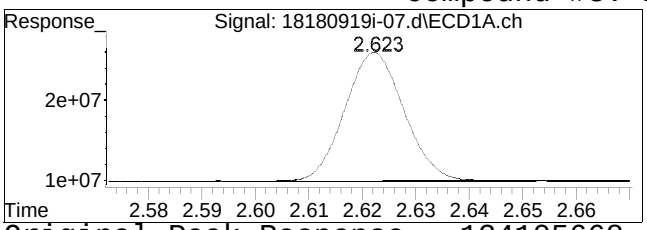
Compound #2: 2,4,5,6-Tetrachloro-m-xylene

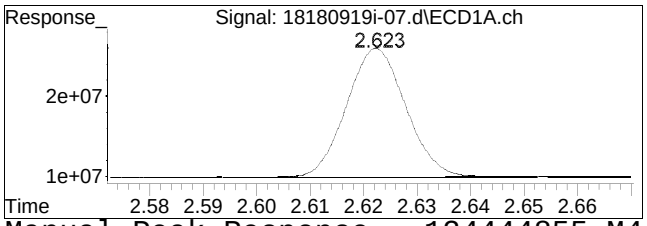




Original Peak Response = 122932753 Manual Peak Response = 119960251 M4
M4 = Poor automated baseline construction.

Compound #3: Hexachlorobenzene





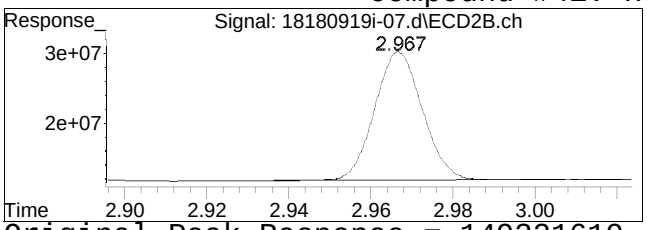
Original Peak Response = 124105668 Manual Peak Response = 124444855 M4
M4 = Poor automated baseline construction.

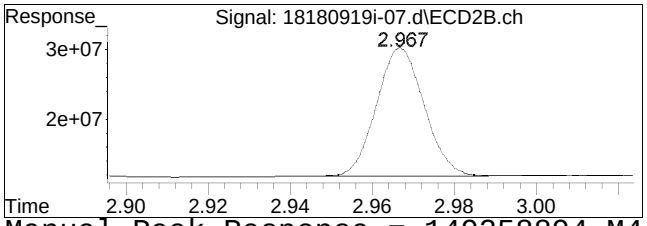
Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-07.d
Date Inj'd : 9/19/2018 7:14 pm
Sample : il6pest,42e,,pp8818

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/26/2018 5:17 pm

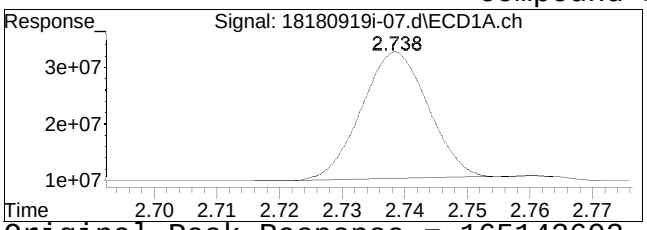
Compound #41: Hexachlorobenzene #2

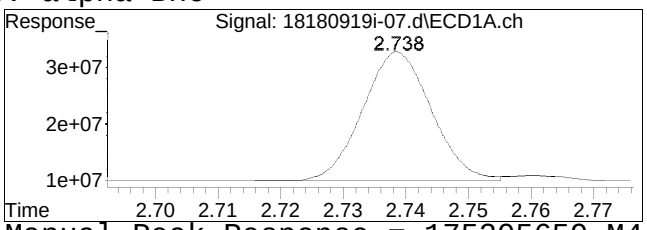




Original Peak Response = 149321619 Manual Peak Response = 149258894 M4
M4 = Poor automated baseline construction.

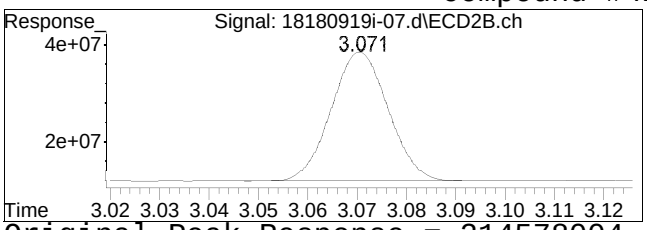
Compound #4: alpha-BHC

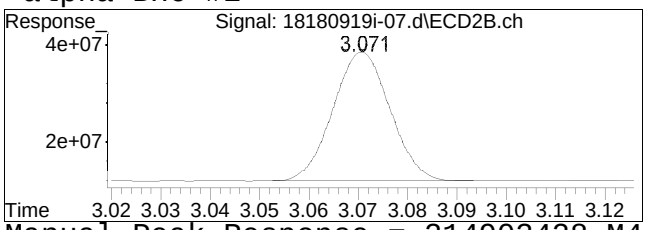




Original Peak Response = 165143602 Manual Peak Response = 175205659 M4
M4 = Poor automated baseline construction.

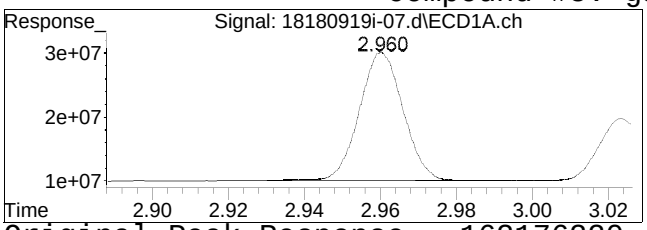
Compound #42: alpha-BHC #2

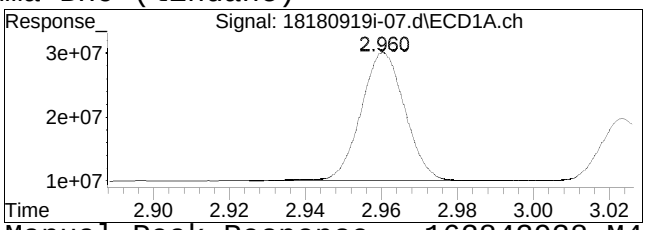




Original Peak Response = 214578004 Manual Peak Response = 214903428 M4
M4 = Poor automated baseline construction.

Compound #5: gamma-BHC (lindane)





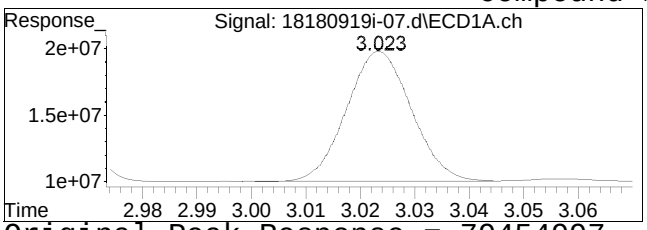
Original Peak Response = 162176220 Manual Peak Response = 162843938 M4
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

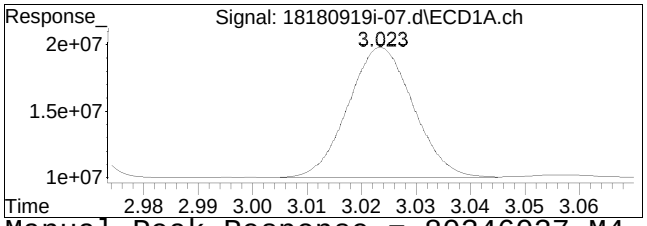
Data Path : I:\Pest18\180919ical\
Data File : 18180919i-07.d
Date Inj'd : 9/19/2018 7:14 pm
Sample : il6pest,42e,,pp8818

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/26/2018 5:17 pm

Compound #6: beta-BHC



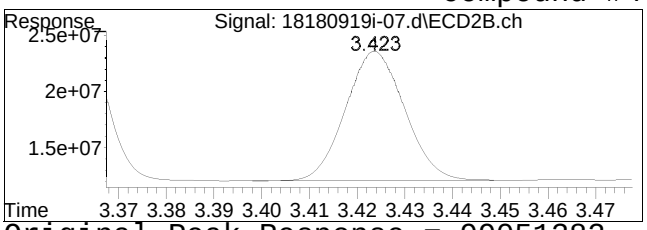
Original Peak Response = 79454997



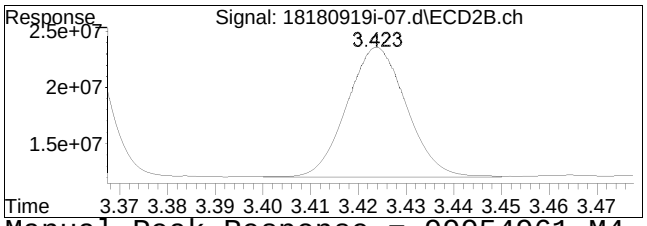
Manual Peak Response = 80346037 M4

M4 = Poor automated baseline construction.

Compound #44: beta-BHC #2



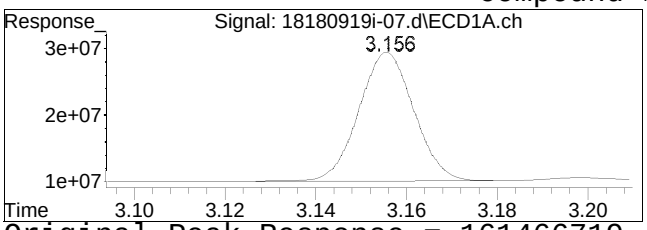
Original Peak Response = 99051382



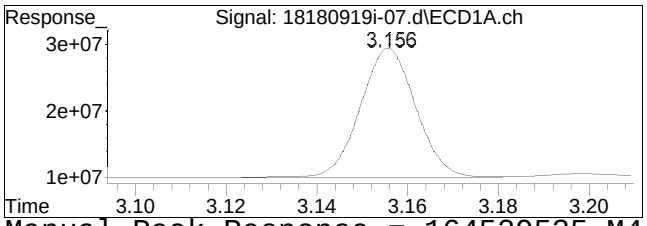
Manual Peak Response = 99954961 M4

M4 = Poor automated baseline construction.

Compound #7: delta-BHC



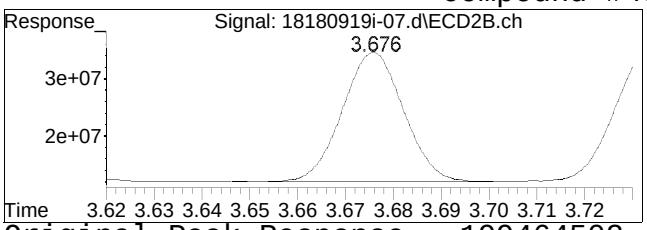
Original Peak Response = 161466719



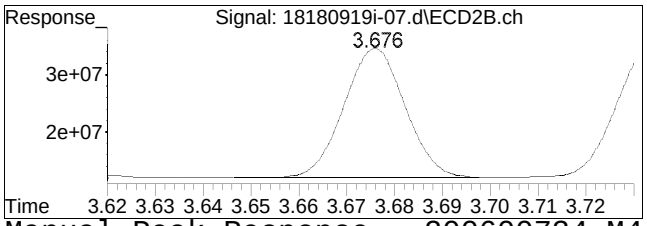
Manual Peak Response = 164529535 M4

M4 = Poor automated baseline construction.

Compound #45: delta-BHC #2



Original Peak Response = 199464502



Manual Peak Response = 200600734 M4

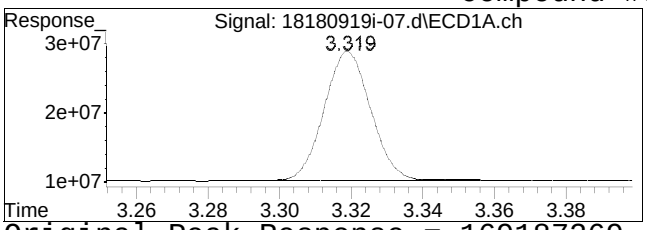
M4 = Poor automated baseline construction.

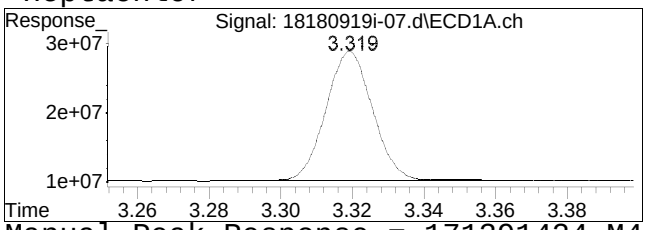
Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-07.d
Date Inj'd : 9/19/2018 7:14 pm
Sample : il6pest,42e,,pp8818

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/26/2018 5:17 pm

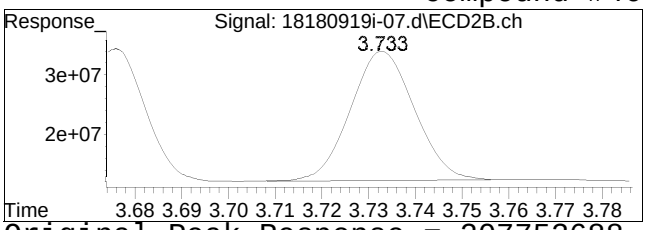
Compound #8: Heptachlor

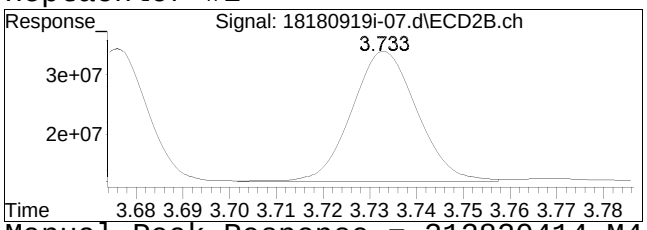




Original Peak Response = 169187269 Manual Peak Response = 171391424 M4
M4 = Poor automated baseline construction.

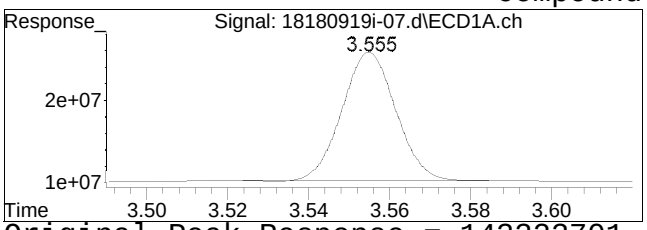
Compound #46: Heptachlor #2

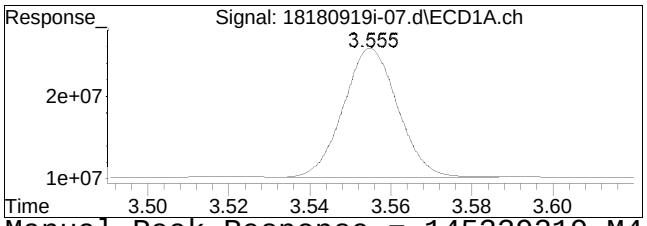




Original Peak Response = 207753688 Manual Peak Response = 212820414 M4
M4 = Poor automated baseline construction.

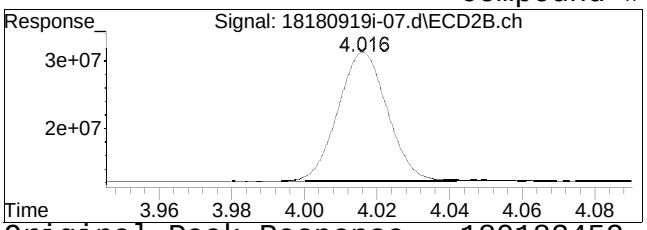
Compound #9: Aldrin

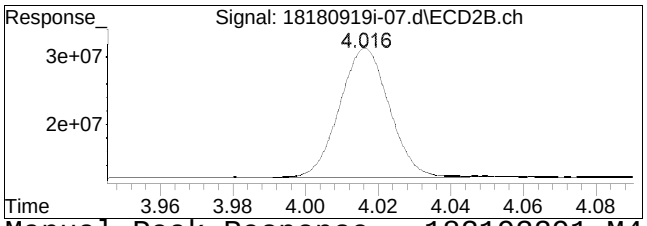




Original Peak Response = 143323701 Manual Peak Response = 145339219 M4
M4 = Poor automated baseline construction.

Compound #47: Aldrin #2





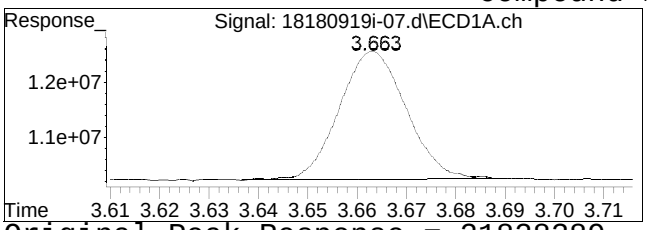
Original Peak Response = 180182452 Manual Peak Response = 182193291 M4
M4 = Poor automated baseline construction.

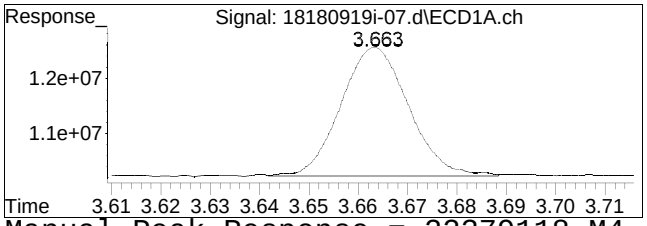
Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-07.d
Date Inj'd : 9/19/2018 7:14 pm
Sample : il6pest,42e,,pp8818

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/26/2018 5:17 pm

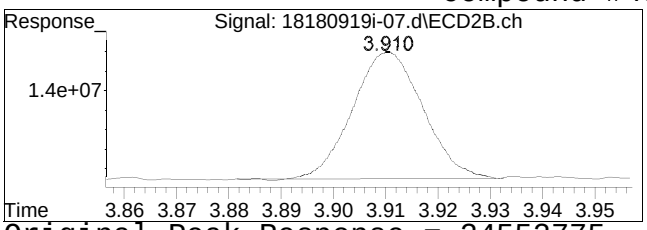
Compound #10: Alachlor

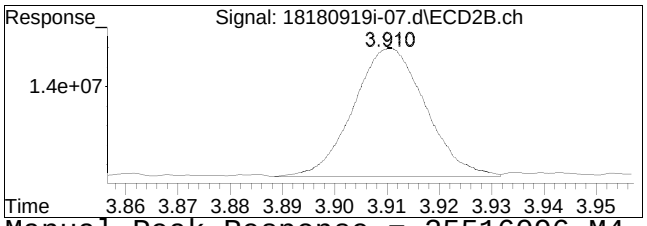




Original Peak Response = 21828389 Manual Peak Response = 22379118 M4
M4 = Poor automated baseline construction.

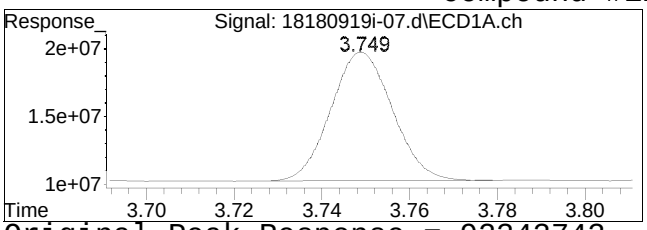
Compound #48: Alachlor #2

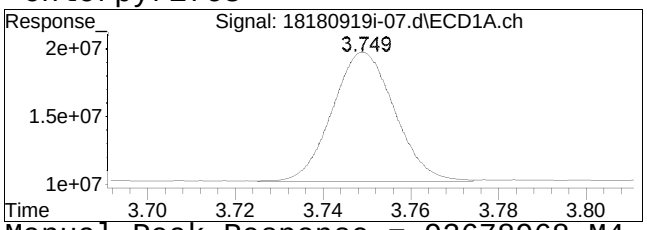




Original Peak Response = 24552775 Manual Peak Response = 25516096 M4
M4 = Poor automated baseline construction.

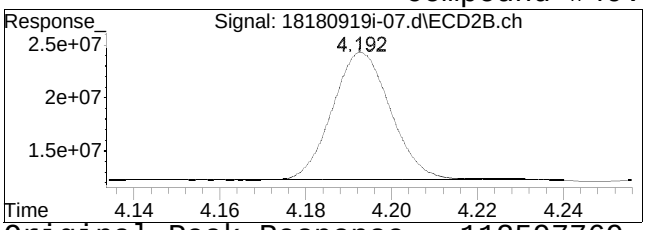
Compound #11: Chlorpyrifos

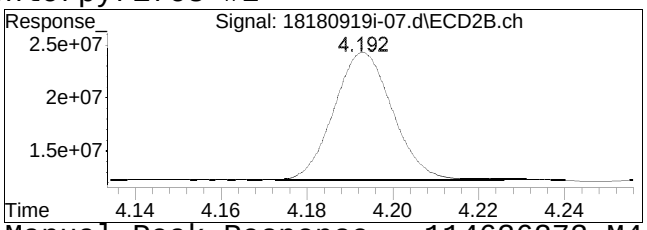




Original Peak Response = 92343743 Manual Peak Response = 93678968 M4
M4 = Poor automated baseline construction.

Compound #49: Chlorpyrifos #2





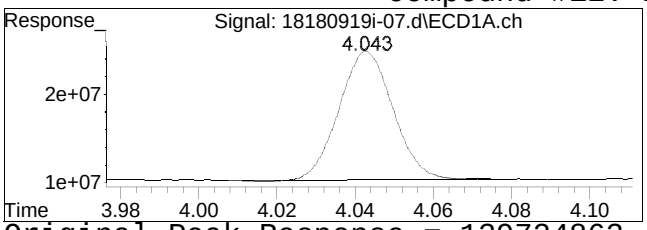
Original Peak Response = 112597769 Manual Peak Response = 114636273 M4
M4 = Poor automated baseline construction.

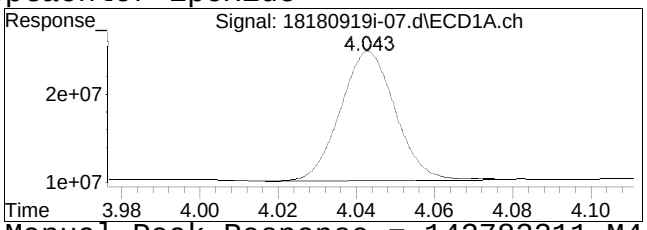
Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-07.d
Date Inj'd : 9/19/2018 7:14 pm
Sample : il6pest,42e,,pp8818

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/26/2018 5:17 pm

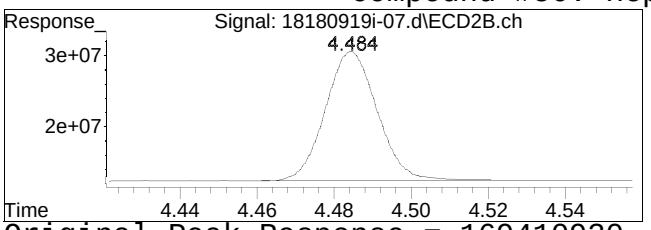
Compound #12: Heptachlor Epoxide

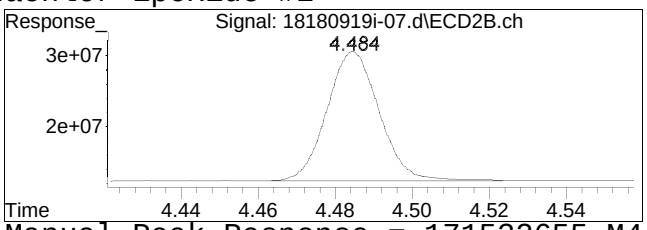




Original Peak Response = 139724863 Manual Peak Response = 142783211 M4
M4 = Poor automated baseline construction.

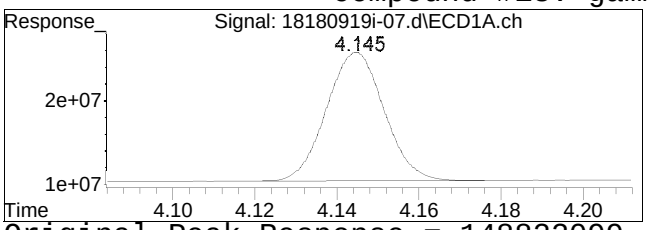
Compound #50: Heptachlor Epoxide #2

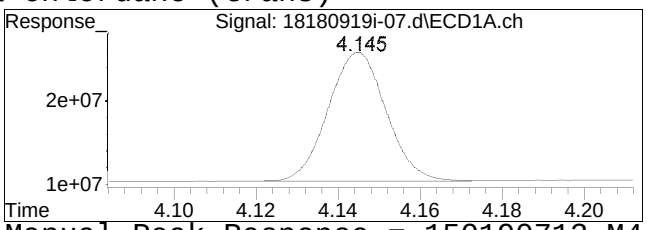




Original Peak Response = 169410930 Manual Peak Response = 171532655 M4
M4 = Poor automated baseline construction.

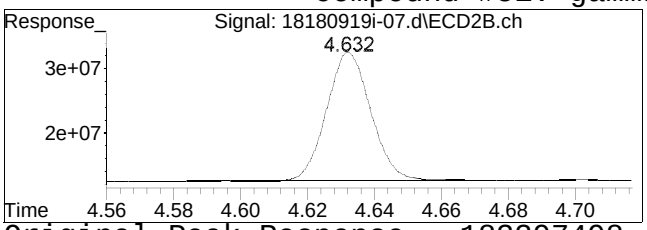
Compound #13: gamma-Chlordane (trans)

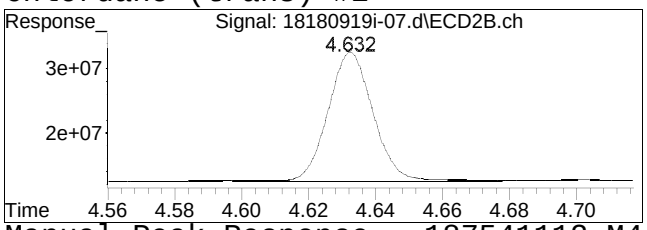




Original Peak Response = 148822099 Manual Peak Response = 150190713 M4
M4 = Poor automated baseline construction.

Compound #51: gamma-Chlordane (trans) #2





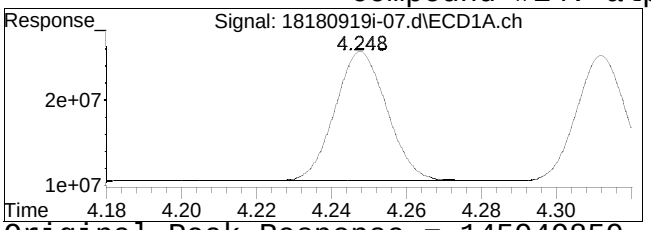
Original Peak Response = 183397498 Manual Peak Response = 187541112 M4
M4 = Poor automated baseline construction.

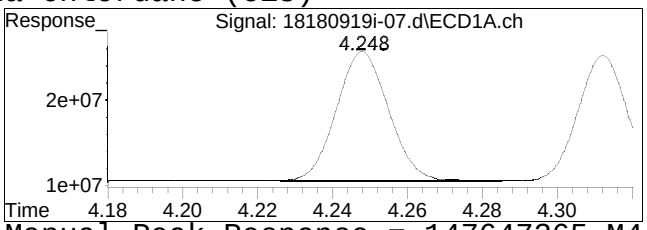
Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-07.d
Date Inj'd : 9/19/2018 7:14 pm
Sample : il6pest,42e,,pp8818

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/26/2018 5:17 pm

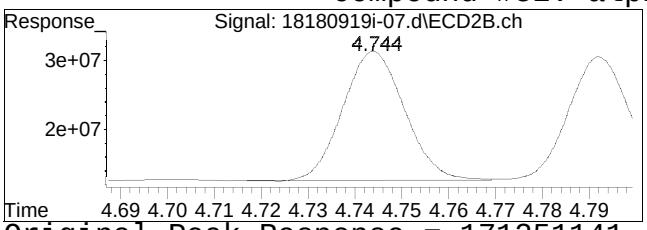
Compound #14: alpha-Chlordane (cis)

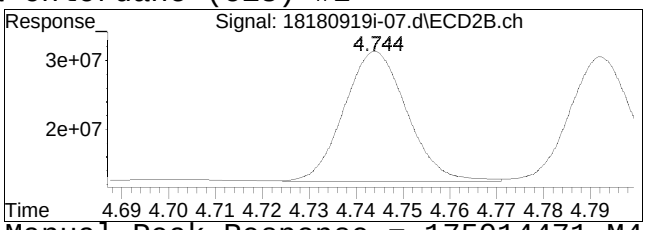




Original Peak Response = 145949859 Manual Peak Response = 147647365 M4
M4 = Poor automated baseline construction.

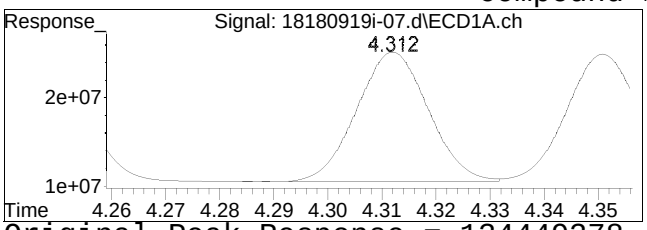
Compound #52: alpha-Chlordane (cis) #2

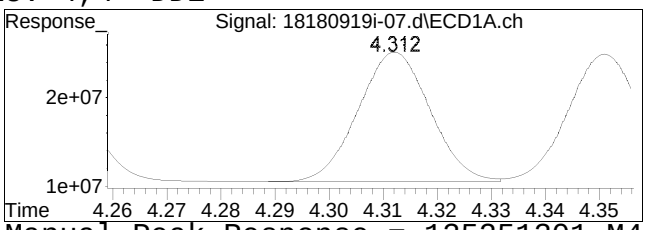




Original Peak Response = 171251141 Manual Peak Response = 175014471 M4
M4 = Poor automated baseline construction.

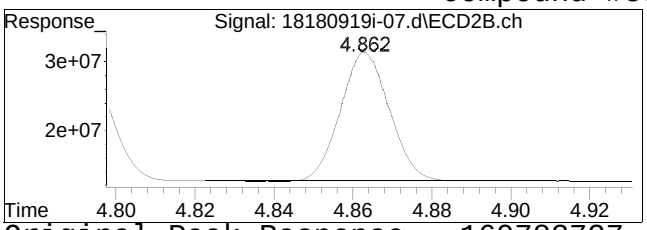
Compound #15: 4,4'-DDE

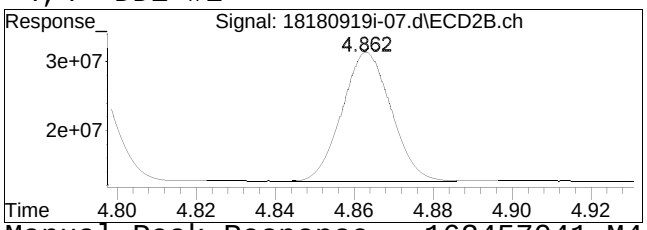




Original Peak Response = 134449378 Manual Peak Response = 135251301 M4
M4 = Poor automated baseline construction.

Compound #53: 4,4'-DDE #2





Original Peak Response = 160783737 Manual Peak Response = 162457041 M4
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
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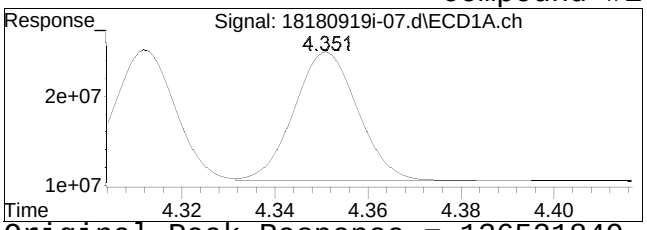
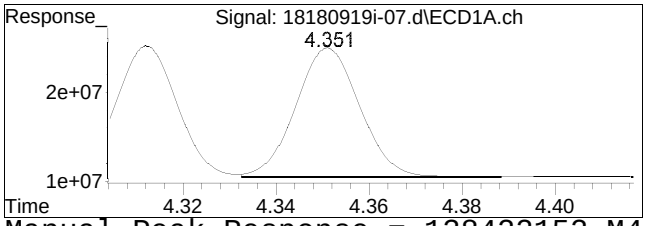
Sample : il6pest,42e,,pp8818

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/26/2018 5:17 pm

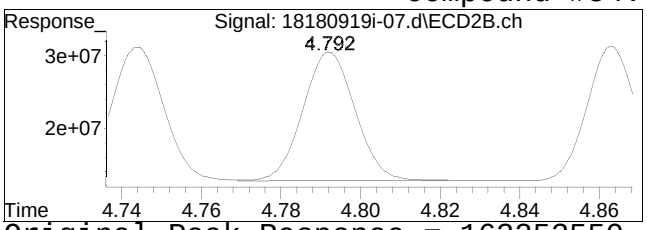
Compound #16: Endosulfan I

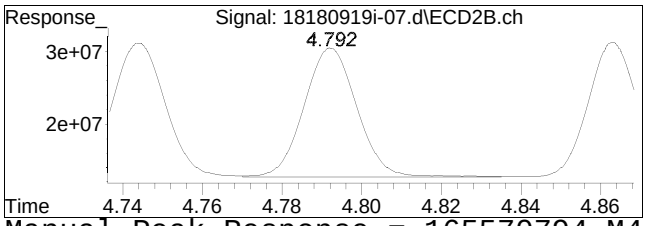




Original Peak Response = 136521849 Manual Peak Response = 138422152 M4
M4 = Poor automated baseline construction.

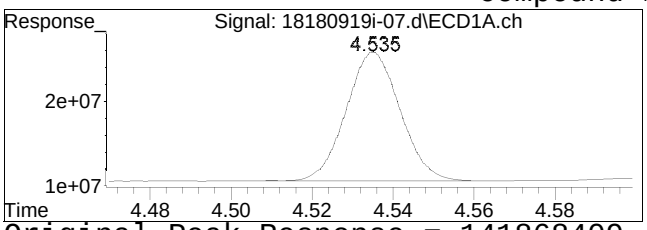
Compound #54: Endosulfan I #2

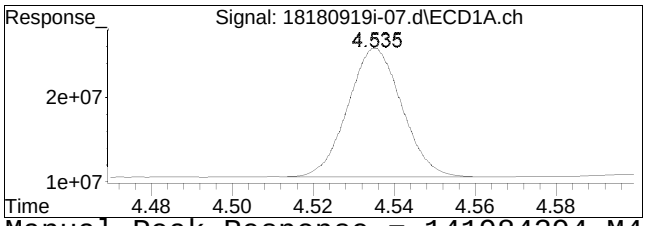




Original Peak Response = 163253550 Manual Peak Response = 165570794 M4
M4 = Poor automated baseline construction.

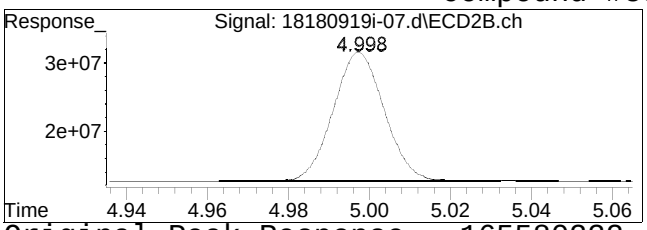
Compound #17: Dieldrin

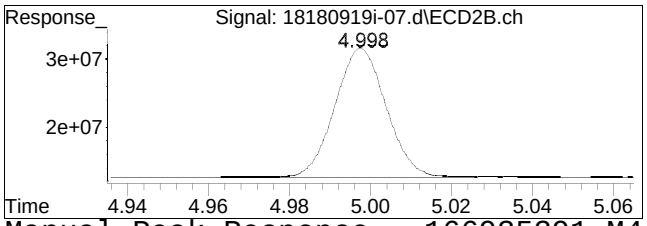




Original Peak Response = 141868409 Manual Peak Response = 141984394 M4
M4 = Poor automated baseline construction.

Compound #55: Dieldrin #2





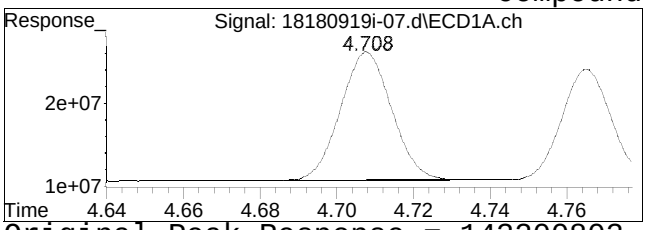
Original Peak Response = 165580232 Manual Peak Response = 166935391 M4
M4 = Poor automated baseline construction.

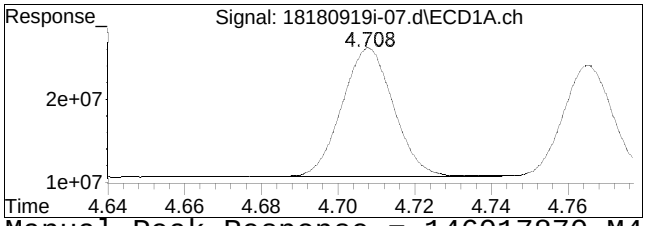
Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-07.d
Date Inj'd : 9/19/2018 7:14 pm
Sample : il6pest,42e,,pp8818

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/26/2018 5:17 pm

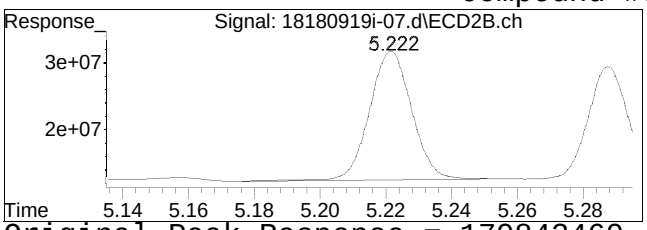
Compound #18: Endrin

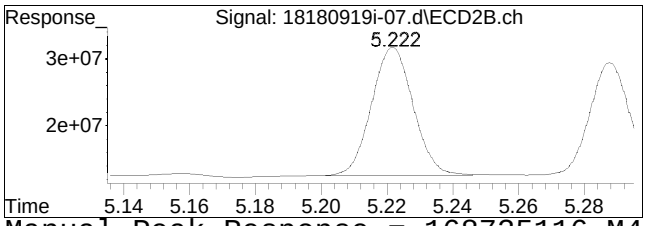




Original Peak Response = 143200803 Manual Peak Response = 146017870 M4
M4 = Poor automated baseline construction.

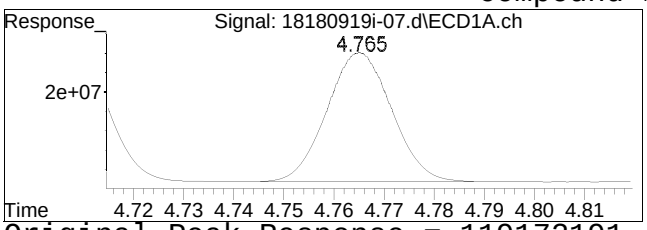
Compound #56: Endrin #2

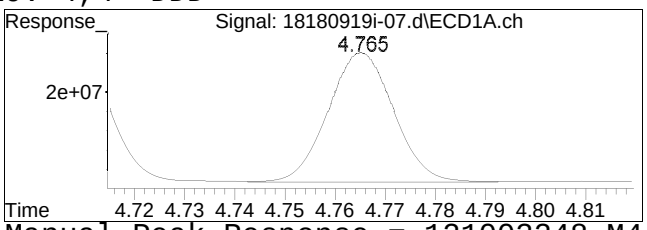




Original Peak Response = 170843460 Manual Peak Response = 168735116 M4
M4 = Poor automated baseline construction.

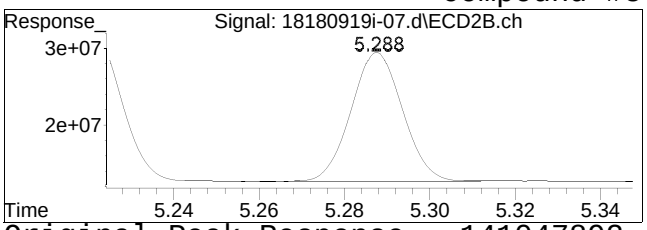
Compound #19: 4,4'-DDD

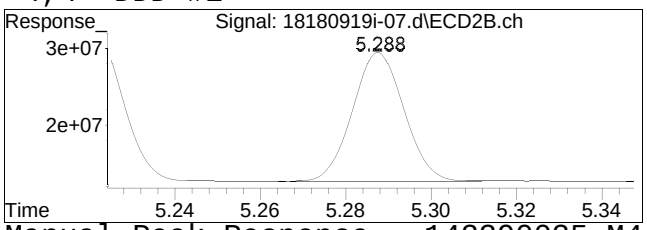




Original Peak Response = 119172191 Manual Peak Response = 121003248 M4
M4 = Poor automated baseline construction.

Compound #57: 4,4'-DDD #2





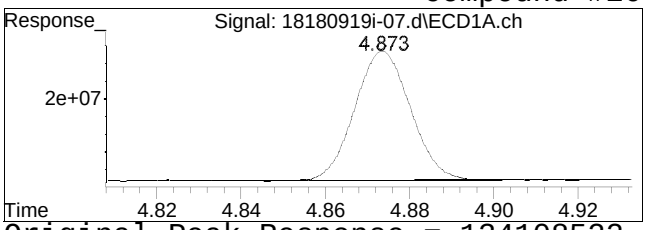
Original Peak Response = 141047892 Manual Peak Response = 142390035 M4
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

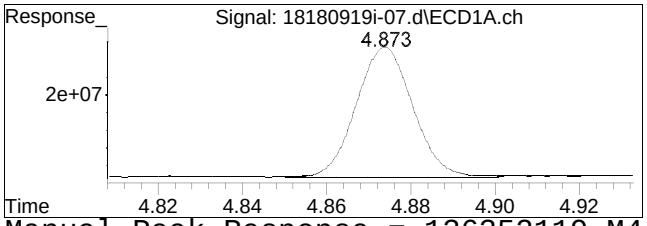
Data Path : I:\Pest18\180919ical\
Data File : 18180919i-07.d
Date Inj'd : 9/19/2018 7:14 pm
Sample : il6pest,42e,,pp8818

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/26/2018 5:17 pm

Compound #20: Endosulfan II



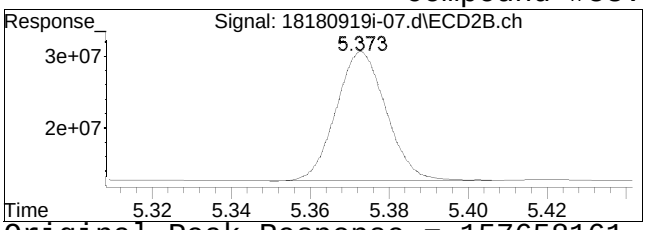
Original Peak Response = 134108522



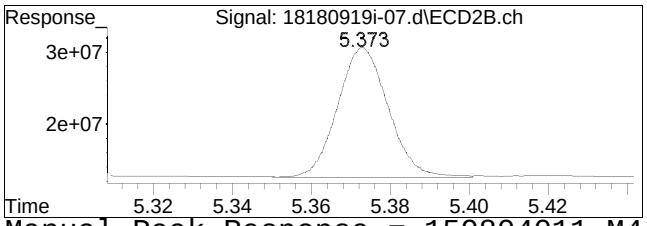
Manual Peak Response = 136352119 M4

M4 = Poor automated baseline construction.

Compound #58: Endosulfan II #2



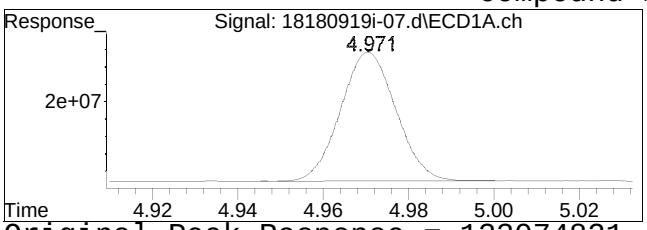
Original Peak Response = 157658161



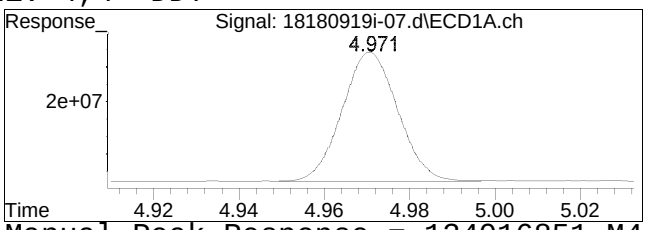
Manual Peak Response = 159804011 M4

M4 = Poor automated baseline construction.

Compound #21: 4,4'-DDT



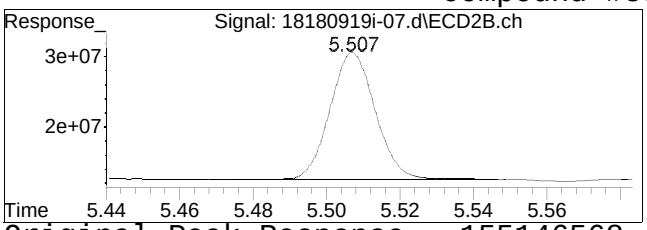
Original Peak Response = 133074821



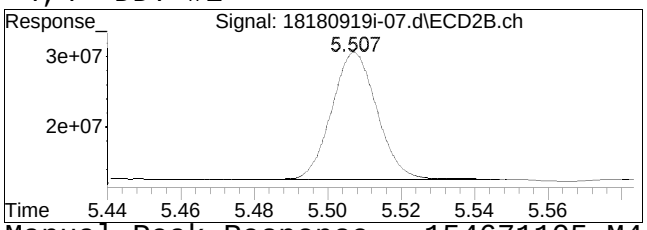
Manual Peak Response = 134016851 M4

M4 = Poor automated baseline construction.

Compound #59: 4,4'-DDT #2



Original Peak Response = 155146568



Manual Peak Response = 154671105 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
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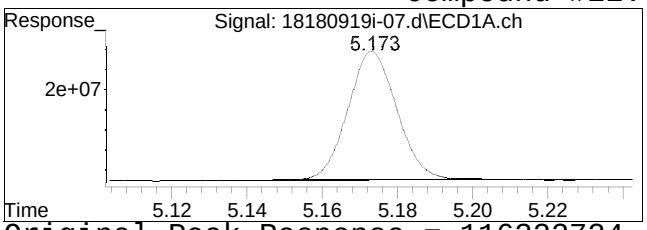
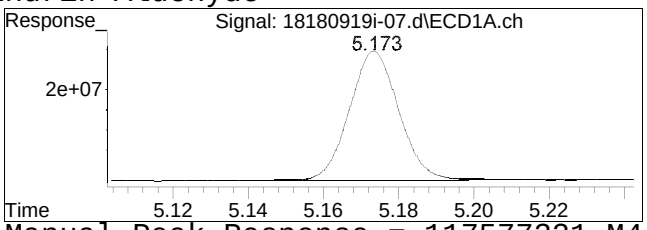
Date Inj'd : 9/19/2018 7:14 pm
Sample : il6pest,42e,,pp8818

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/26/2018 5:17 pm

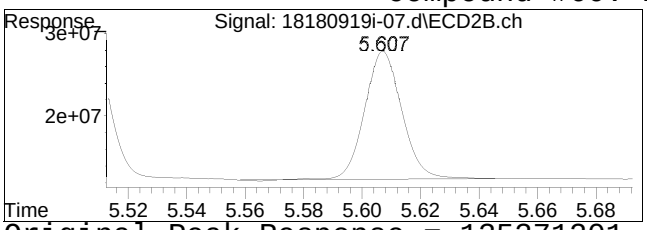
Compound #22: Endrin Aldehyde

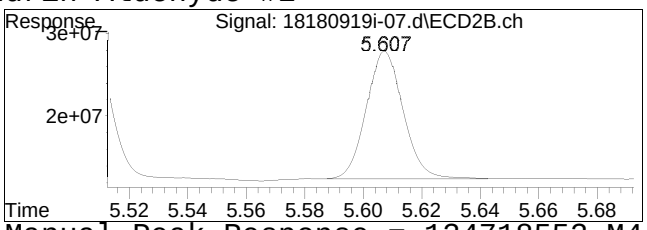




Original Peak Response = 116322724 Manual Peak Response = 117577321 M4
M4 = Poor automated baseline construction.

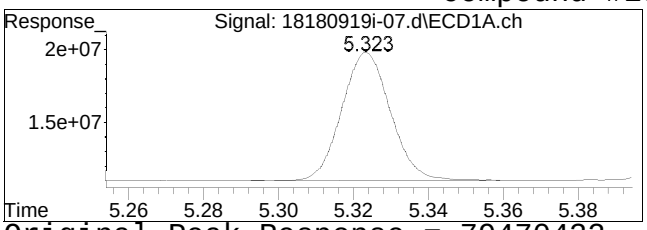
Compound #60: Endrin Aldehyde #2

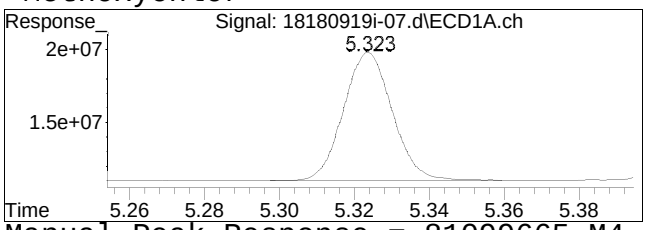




Original Peak Response = 135371201 Manual Peak Response = 134718553 M4
M4 = Poor automated baseline construction.

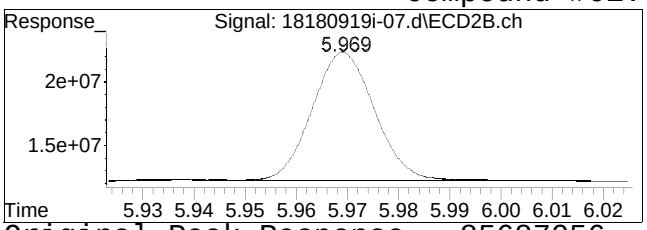
Compound #23: Methoxychlor

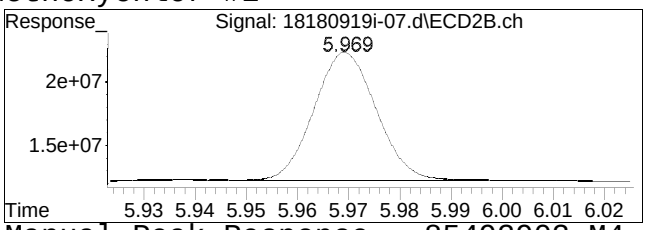




Original Peak Response = 79470432 Manual Peak Response = 81099665 M4
M4 = Poor automated baseline construction.

Compound #61: Methoxychlor #2





Original Peak Response = 85687056 Manual Peak Response = 85493903 M4
M4 = Poor automated baseline construction.

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Data Path : I:\Pest18\180919ical\
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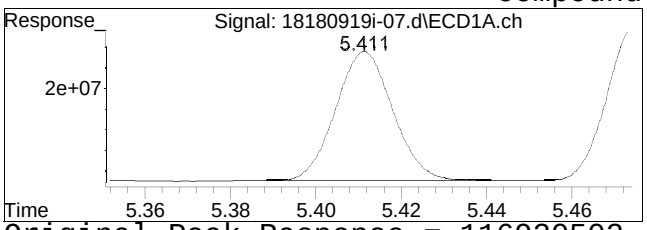
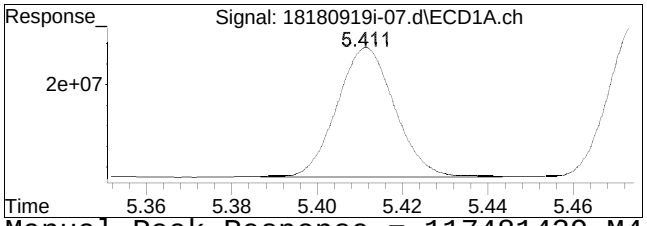
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/26/2018 5:17 pm

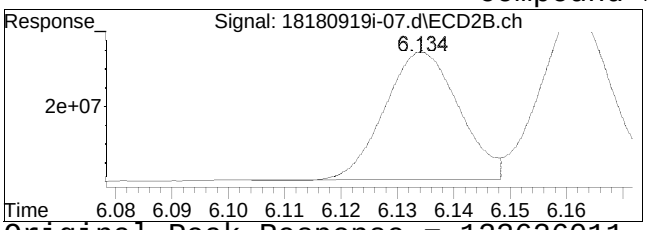
Compound #24: Mirex

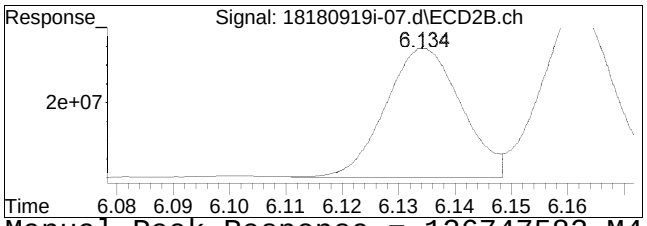




Original Peak Response = 116930502 Manual Peak Response = 117481439 M4
M4 = Poor automated baseline construction.

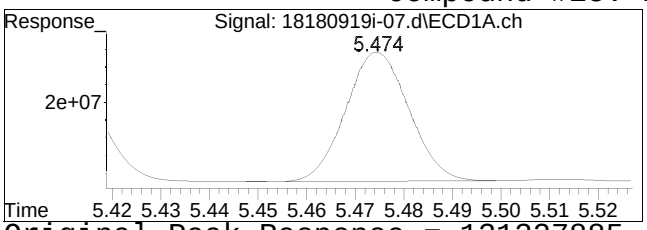
Compound #62: Mirex #2

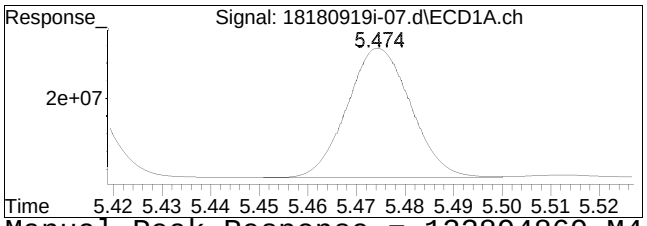




Original Peak Response = 123626011 Manual Peak Response = 126747582 M4
M4 = Poor automated baseline construction.

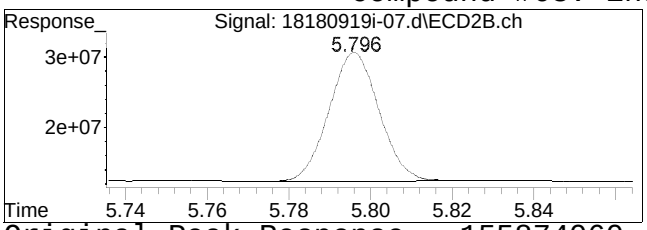
Compound #25: Endosulfan Sulfate

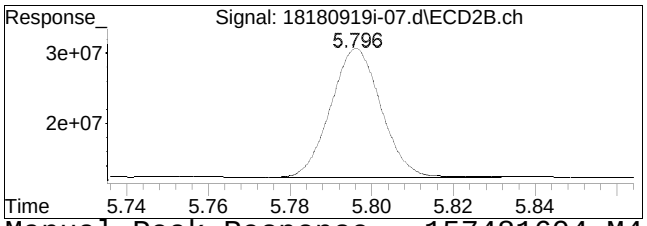




Original Peak Response = 131327885 Manual Peak Response = 133894869 M4
M4 = Poor automated baseline construction.

Compound #63: Endosulfan Sulfate #2



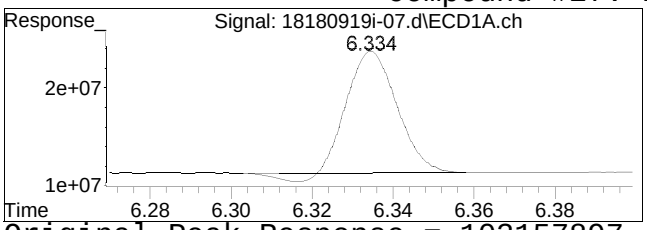


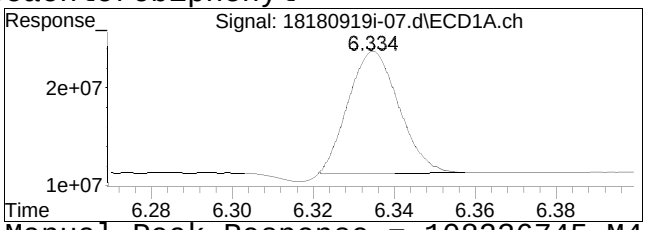
Original Peak Response = 155874060 Manual Peak Response = 157481604 M4
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path	: I:\Pest18\180919ical\	QMethod	: pest18_09_19_18_.m
Data File	: 18180919i-07.d	Operator	: PEST18:jw
Date Inj'd	: 9/19/2018 7:14 pm	Instrument	: Pest 18
Sample	: il6pest,42e,,pp8818	Quant Date	: 9/26/2018 5:17 pm

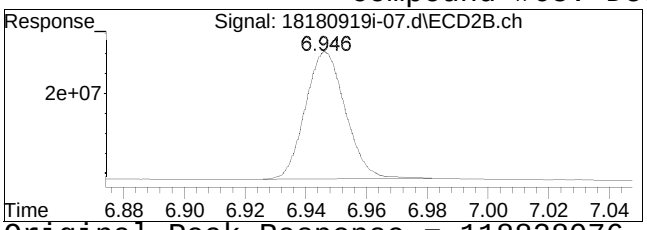
Compound #27: Decachlorobiphenyl

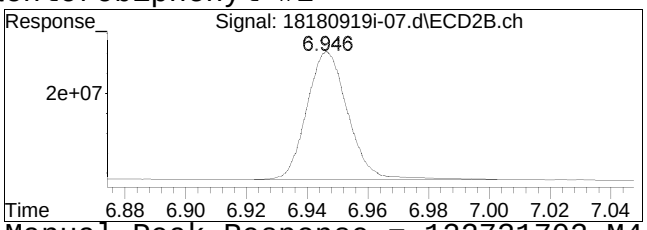




Original Peak Response = 103157897 Manual Peak Response = 108236745 M4
M4 = Poor automated baseline construction.

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 118828076 Manual Peak Response = 122731703 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-08.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Sep 2018 7:27 pm
Operator : PEST18:jw
Sample : il7pest,42e,,pp8819
Misc : wg1162772,ical (Sig #1); ical (Sig #2)
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 26 17:17:30 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Wed Sep 26 17:11:40 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb...	1.885	2.004	547.1E6	655.1E6	25.000	25.000
28) i	1-br-2-nb...	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb...	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-T...	2.367	2.611	247.0E6	296.8E6	11.938M4	11.944M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		23.88%#	23.89%#
27) s	Decachlor...	6.335	6.945	209.7E6	240.4E6	11.192M4	12.196M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		22.38%#	24.39%#
	Target Compounds						
3)	Hexachlor...	2.623	2.966	249.1E6	297.7E6	12.058M4	12.078M4
4)	alpha-BHC	2.739	3.070	364.5E6	448.8E6	10.901M4	11.047M4
5)	gamma-BHC...	2.961	3.359	338.6E6	411.6E6	11.271M4	11.247M4
6)	beta-BHC	3.024	3.423	162.1E6	200.4E6	12.307M4	12.095M4
7)	delta-BHC	3.157	3.675	338.5E6	415.5E6	10.974M4	10.959M4
8)	Heptachlor	3.320	3.733	347.6E6	429.2E6	12.075M4	12.105M4
9)	Aldrin	3.555	4.016	301.1E6	375.9E6	11.464M4	11.710M4
10)	Alachlor	3.664	3.910	45735610	50472182	13.517M4	13.554M4
11)	Chlorpyrifos	3.750	4.192	184.9E6	225.9E6	13.327M4	13.171M4
12)	Heptachlo...	4.043	4.484	289.0E6	346.2E6	12.192M4	12.056M4

Quantitation Report (QT Reviewed)

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-08.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Sep 2018 7:27 pm
Operator : PEST18:jw
Sample : il7pest,42e,,pp8819
Misc : wg1162772,ical (Sig #1); ical (Sig #2)
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 26 17:17:30 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Wed Sep 26 17:11:40 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
13)		gamma-Chl...	4.146	4.631	304.1E6	377.4E6	11.422M4	11.640M4
14)		alpha-Chl...	4.248	4.743	298.3E6	350.7E6	11.643M4	11.568M4
15)		4,4'-DDE	4.313	4.862	278.9E6	338.2E6	11.215M4	11.134M4
16)		Endosulfan I	4.352	4.791	283.1E6	339.1E6	11.972M4	11.915M4
17)		Dieldrin	4.536	4.996	288.1E6	345.1E6	11.357	11.457M4
18)		Endrin	4.708	5.220	295.7E6	347.8E6	11.502M4	11.654M4
19)		4,4'-DDD	4.766	5.286	247.0E6	298.6E6	11.174M4	11.312M4
20)		Endosulfa...	4.874	5.372	274.3E6	326.6E6	11.849M4	11.967M4
21)		4,4'-DDT	4.971	5.506	270.5E6	319.8E6	11.146M4	11.313M4
22)		Endrin Al...	5.173	5.606	234.1E6	270.0E6	11.403M4	11.367M4
23)		Methoxychlor	5.324	5.968	155.7E6	171.5E6	12.812M4	12.440M4
24)		Mirex	5.412	6.133	228.6E6	237.5E6	12.368	12.071
25)		Endosulfa...	5.475	5.795	271.1E6	321.8E6	11.374M4	11.500M4
26)		Endrin Ke...	5.665	6.161	293.4E6	310.4E6	11.991M4	11.261
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-2	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
32)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
	Sum	chlordane-1			0	0	N.D.	N.D.
Average		chlordane-1					0.000	0.000

Quantitation Report (QT Reviewed)

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-08.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Sep 2018 7:27 pm
Operator : PEST18:jw
Sample : il7pest,42e,,pp8819
Misc : wg1162772,ical (Sig #1); ical (Sig #2)
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 26 17:17:30 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Wed Sep 26 17:11:40 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

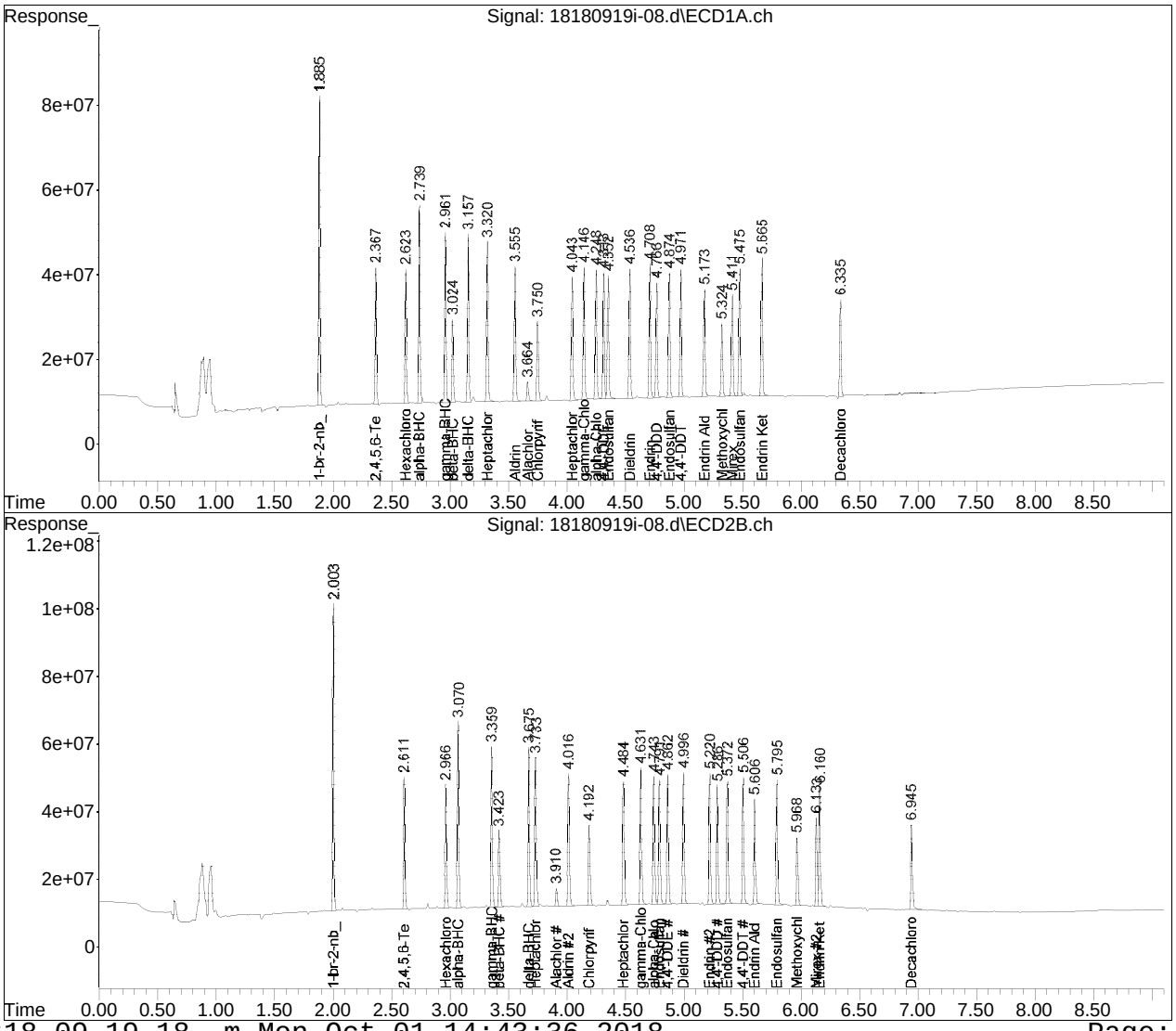
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-08.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Sep 2018 7:27 pm
Operator : PEST18:jw
Sample : il7pest,42e,,pp8819
Misc : wg1162772,ical (Sig #1); ical (Sig #2)
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 26 17:17:30 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Wed Sep 26 17:11:40 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

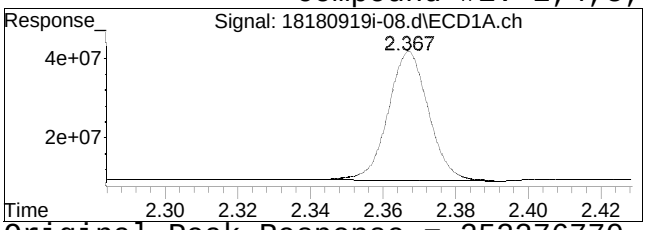


Manual Integration/Negative Proof Report

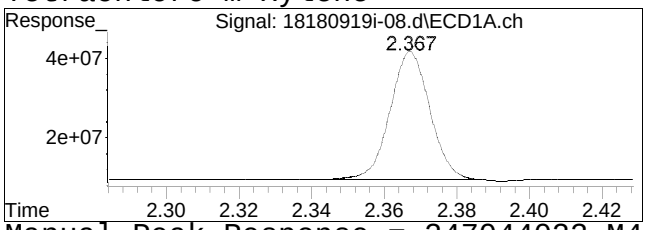
Data Path : I:\Pest18\180919ical\
Data File : 18180919i-08.d
Date Inj'd : 9/19/2018 7:27 pm
Sample : il7pest,42e,,pp8819

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/26/2018 5:12 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene

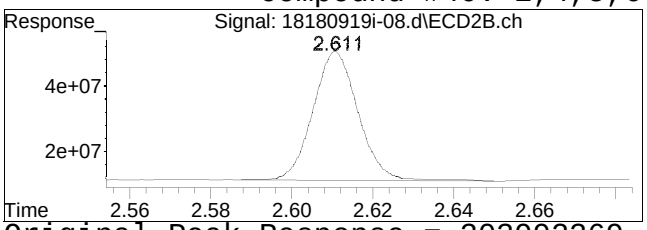


Original Peak Response = 252276770

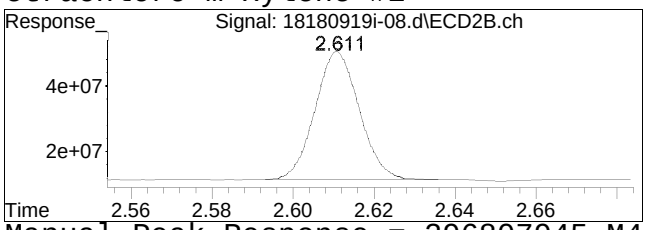


Manual Peak Response = 247044023 M4
M4 = Poor automated baseline construction.

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2

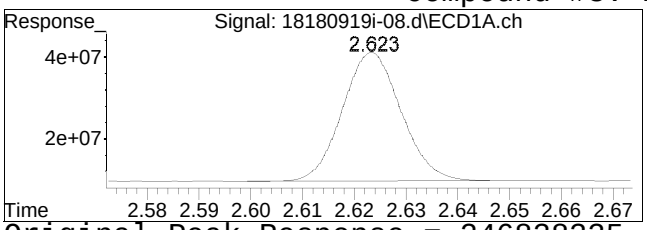


Original Peak Response = 303992369

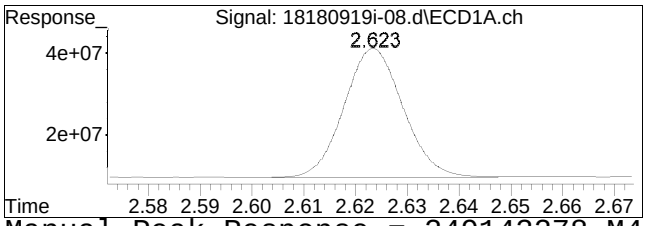


Manual Peak Response = 296807945 M4
M4 = Poor automated baseline construction.

Compound #3: Hexachlorobenzene

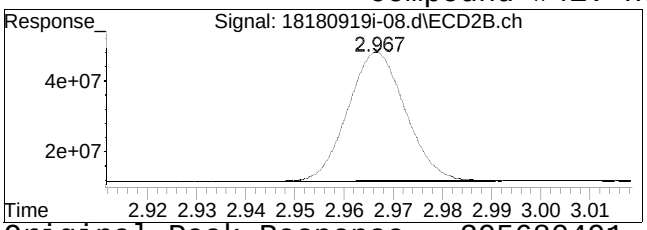


Original Peak Response = 246838335

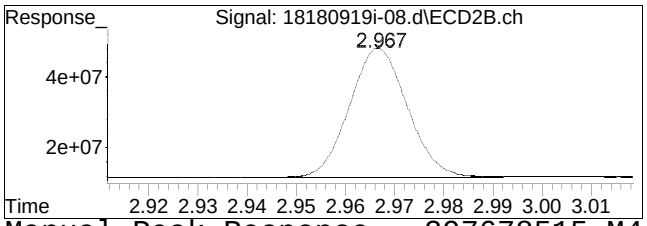


Manual Peak Response = 249143278 M4
M4 = Poor automated baseline construction.

Compound #41: Hexachlorobenzene #2



Original Peak Response = 295680491



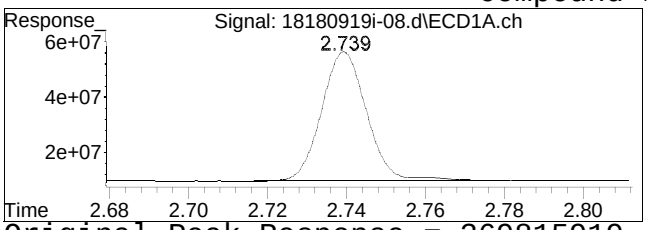
Manual Peak Response = 297678515 M4
M4 = Poor automated baseline construction.

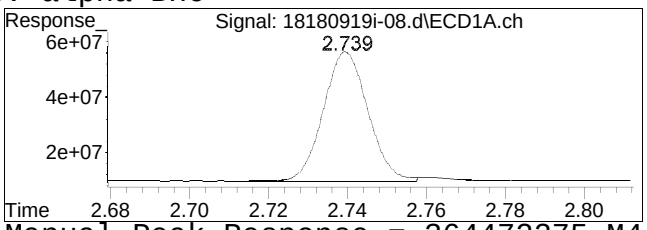
Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-08.d
Date Inj'd : 9/19/2018 7:27 pm
Sample : il7pest,42e,,pp8819

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/26/2018 5:12 pm

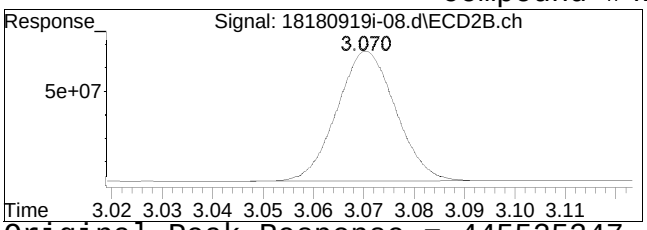
Compound #4: alpha-BHC

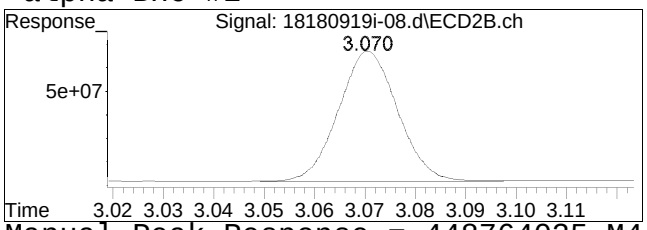




Original Peak Response = 369815919 Manual Peak Response = 364472275 M4
M4 = Poor automated baseline construction.

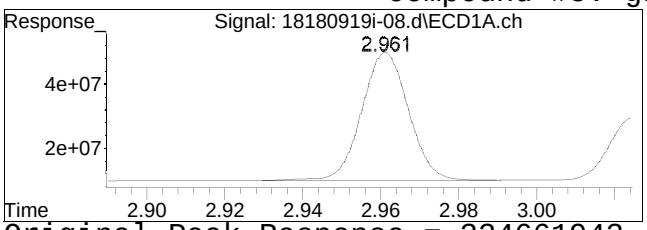
Compound #42: alpha-BHC #2

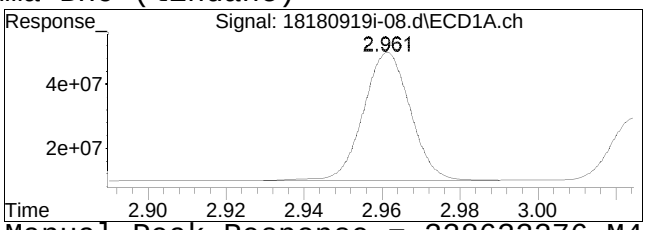




Original Peak Response = 445525347 Manual Peak Response = 448764035 M4
M4 = Poor automated baseline construction.

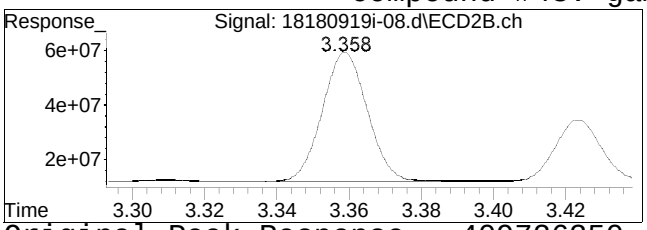
Compound #5: gamma-BHC (lindane)

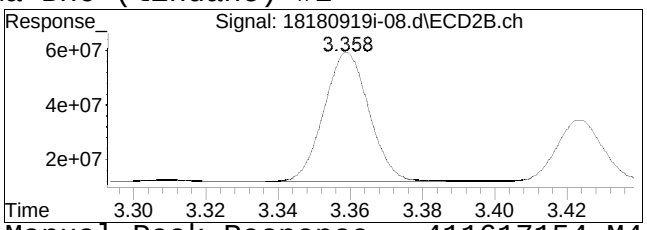




Original Peak Response = 334661943 Manual Peak Response = 338633276 M4
M4 = Poor automated baseline construction.

Compound #43: gamma-BHC (lindane) #2





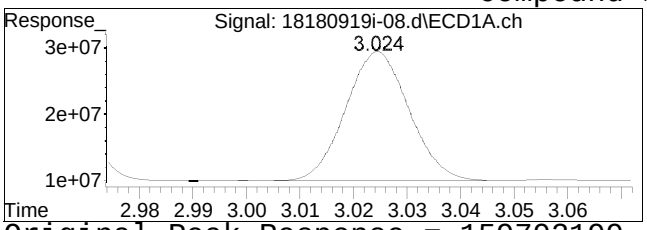
Original Peak Response = 409726350 Manual Peak Response = 411617154 M4
M4 = Poor automated baseline construction.

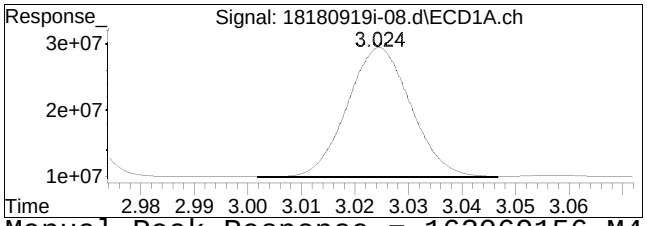
Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-08.d
Date Inj'd : 9/19/2018 7:27 pm
Sample : il7pest,42e,,pp8819

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/26/2018 5:12 pm

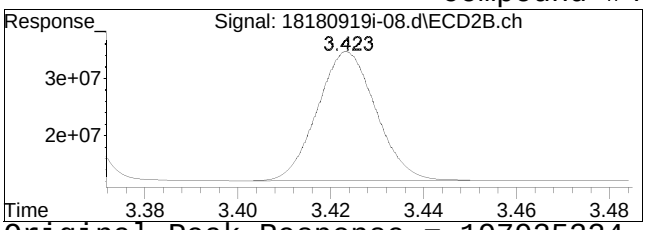
Compound #6: beta-BHC

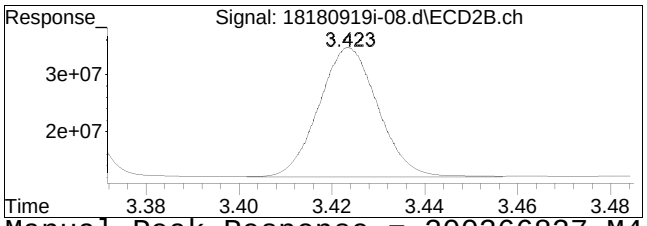




Original Peak Response = 159792199 Manual Peak Response = 162069156 M4
M4 = Poor automated baseline construction.

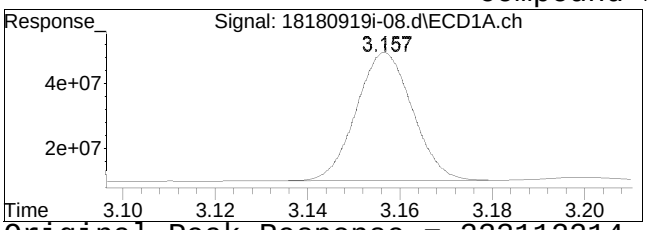
Compound #44: beta-BHC #2

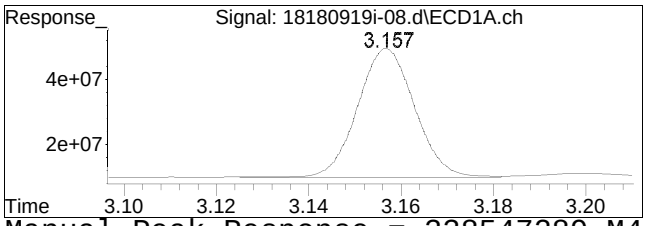




Original Peak Response = 197935324 Manual Peak Response = 200366827 M4
M4 = Poor automated baseline construction.

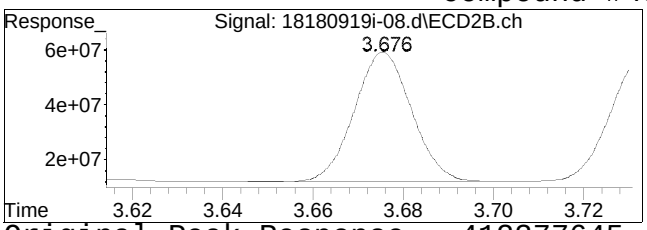
Compound #7: delta-BHC

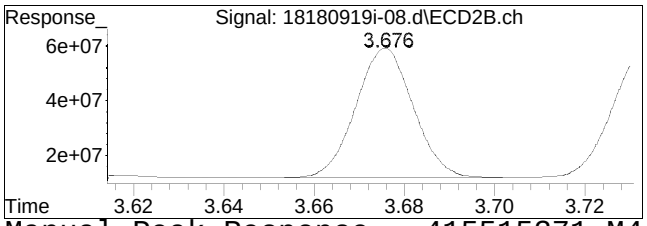




Original Peak Response = 333112214 Manual Peak Response = 338547289 M4
M4 = Poor automated baseline construction.

Compound #45: delta-BHC #2





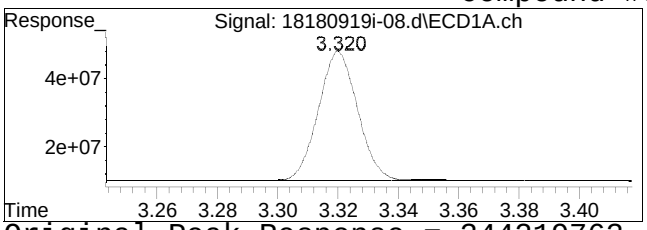
Original Peak Response = 412377645 Manual Peak Response = 415515371 M4
M4 = Poor automated baseline construction.

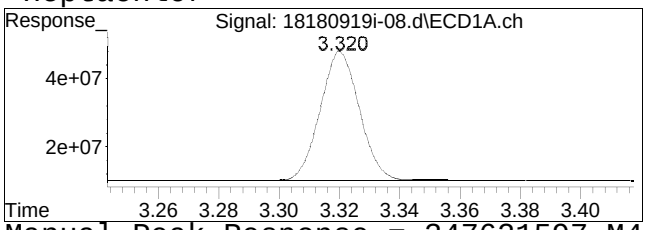
Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-08.d
Date Inj'd : 9/19/2018 7:27 pm
Sample : il7pest,42e,,pp8819

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/26/2018 5:12 pm

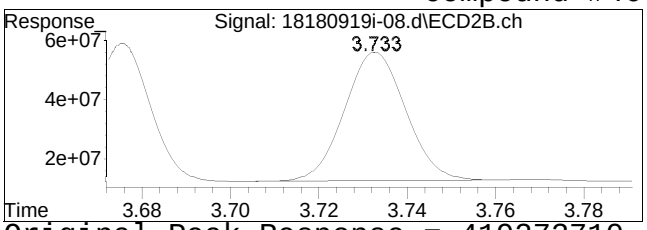
Compound #8: Heptachlor

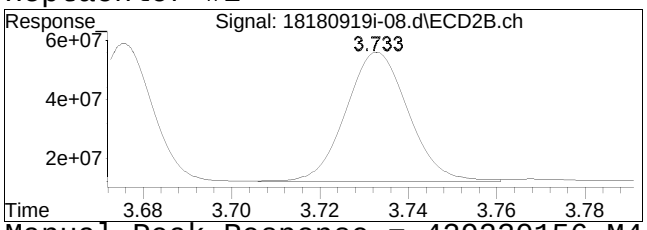




Original Peak Response = 344219763 Manual Peak Response = 347621597 M4
M4 = Poor automated baseline construction.

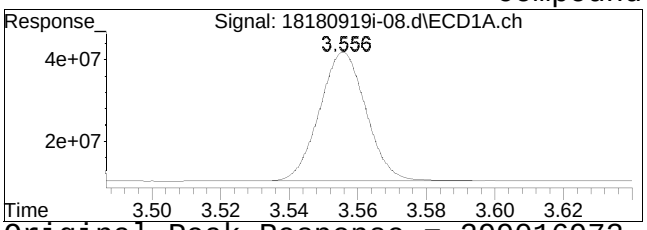
Compound #46: Heptachlor #2

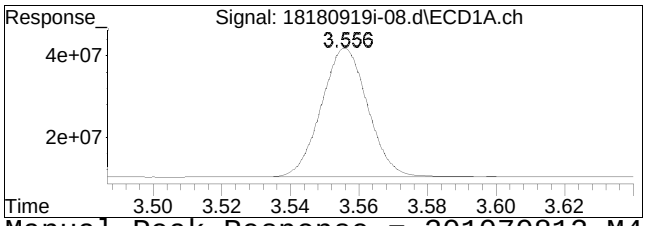




Original Peak Response = 419273710 Manual Peak Response = 429230156 M4
M4 = Poor automated baseline construction.

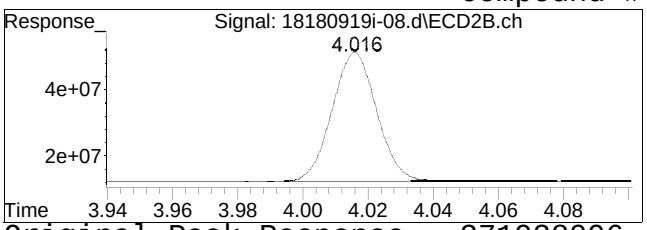
Compound #9: Aldrin

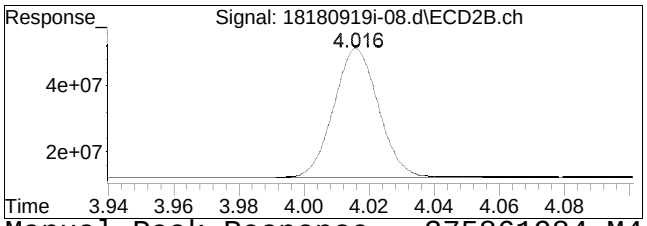




Original Peak Response = 299016973 Manual Peak Response = 301070812 M4
M4 = Poor automated baseline construction.

Compound #47: Aldrin #2





Original Peak Response = 371938096 Manual Peak Response = 375861984 M4
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
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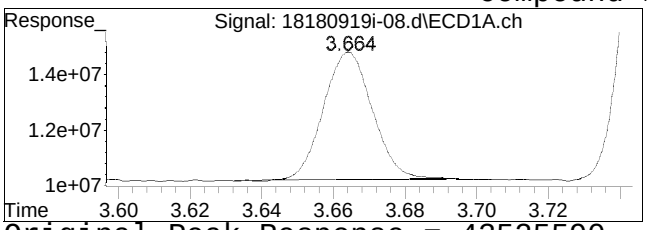
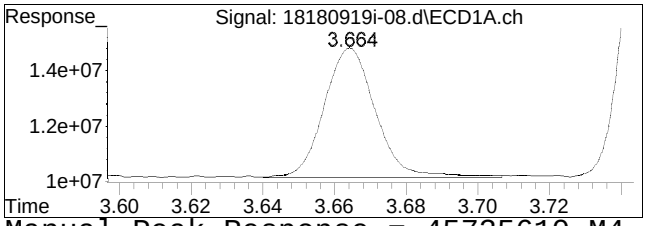
Sample : il7pest,42e,,pp8819

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/26/2018 5:12 pm

Compound #10: Alachlor



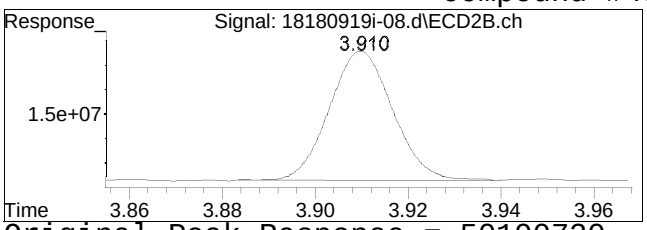
Original Peak Response = 43525590



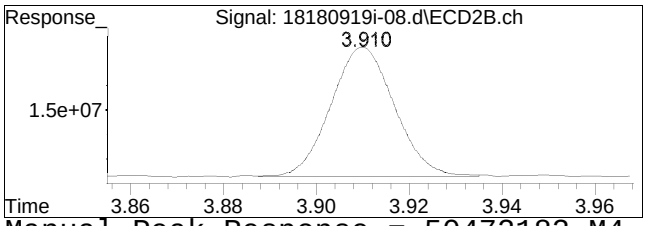
Manual Peak Response = 45735610 M4

M4 = Poor automated baseline construction.

Compound #48: Alachlor #2



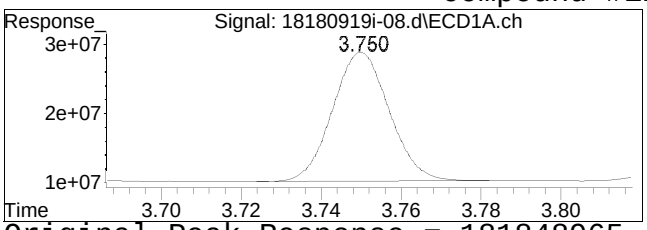
Original Peak Response = 50190720



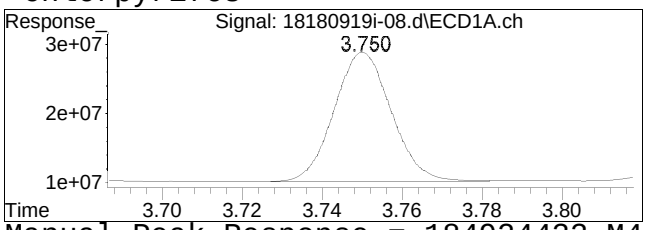
Manual Peak Response = 50472182 M4

M4 = Poor automated baseline construction.

Compound #11: Chlorpyrifos



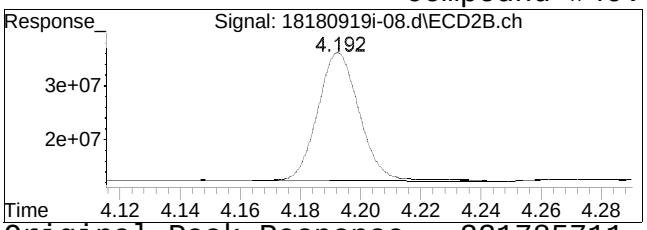
Original Peak Response = 181848965



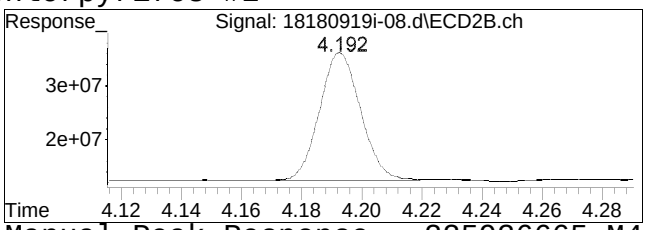
Manual Peak Response = 184924433 M4

M4 = Poor automated baseline construction.

Compound #49: Chlorpyrifos #2



Original Peak Response = 231785711



Manual Peak Response = 225936665 M4

M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
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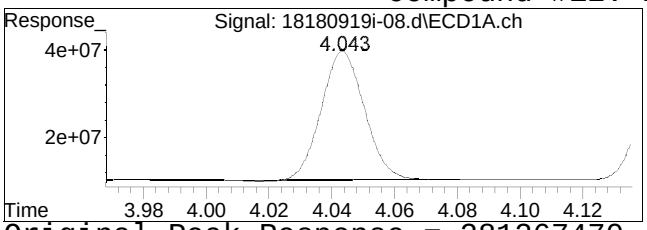
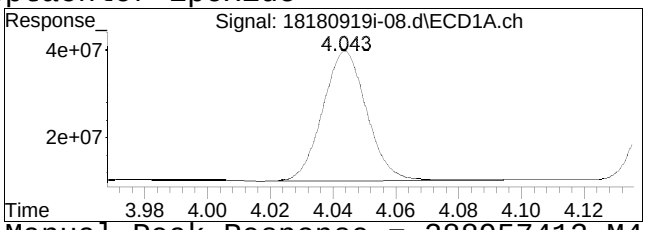
Sample : il7pest,42e,,pp8819

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/26/2018 5:12 pm

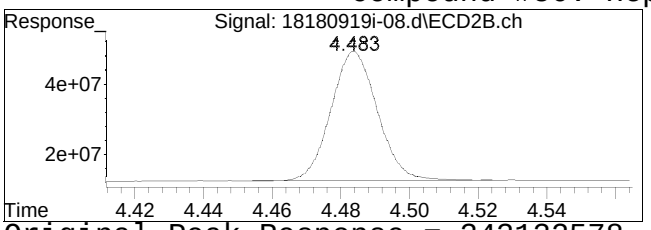
Compound #12: Heptachlor Epoxide

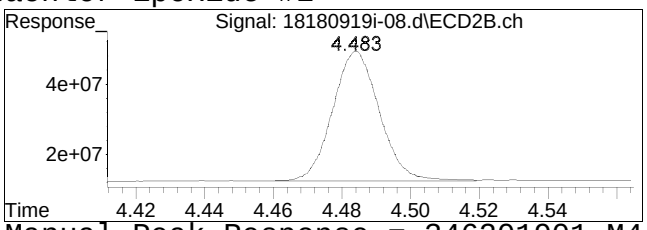




Original Peak Response = 281267470 Manual Peak Response = 288957413 M4
M4 = Poor automated baseline construction.

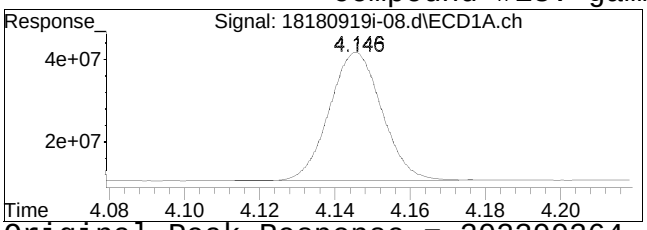
Compound #50: Heptachlor Epoxide #2

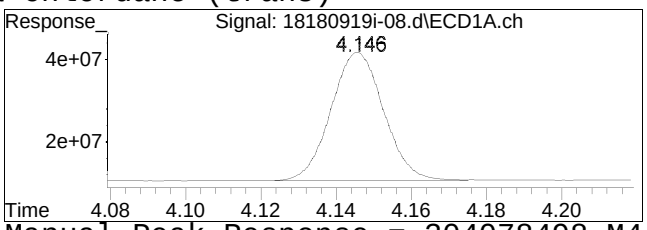




Original Peak Response = 343132578 Manual Peak Response = 346201901 M4
M4 = Poor automated baseline construction.

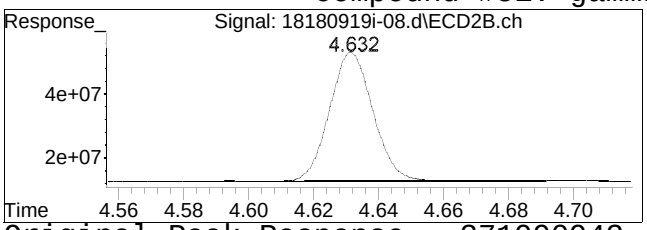
Compound #13: gamma-Chlordane (trans)

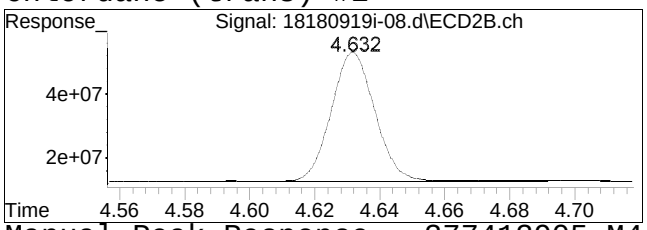




Original Peak Response = 302399364 Manual Peak Response = 304078498 M4
M4 = Poor automated baseline construction.

Compound #51: gamma-Chlordane (trans) #2





Original Peak Response = 371990943 Manual Peak Response = 377413905 M4
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
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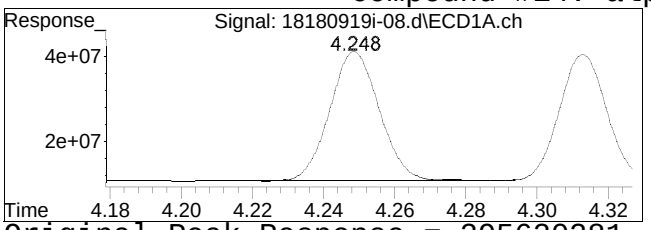
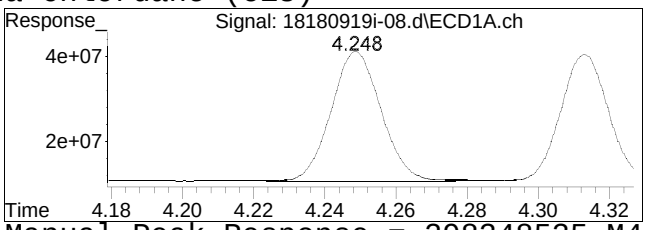
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/26/2018 5:12 pm

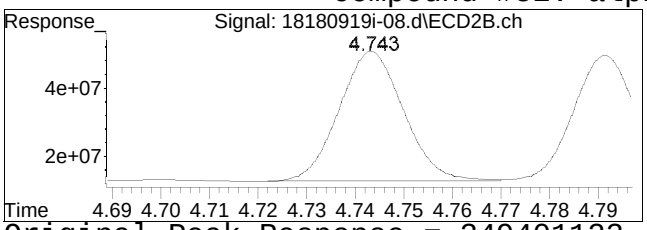
Compound #14: alpha-Chlordane (cis)

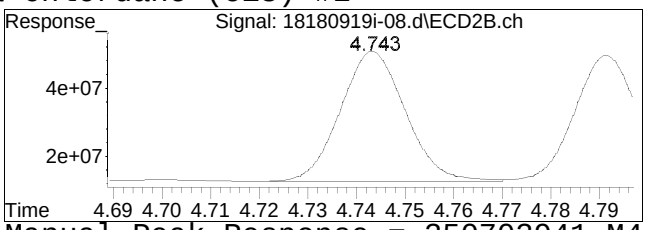




Original Peak Response = 295620281 Manual Peak Response = 298348535 M4
M4 = Poor automated baseline construction.

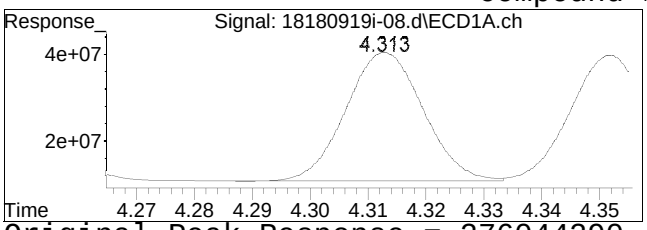
Compound #52: alpha-Chlordane (cis) #2

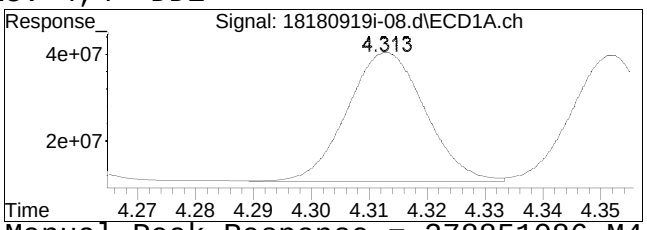




Original Peak Response = 349401123 Manual Peak Response = 350703941 M4
M4 = Poor automated baseline construction.

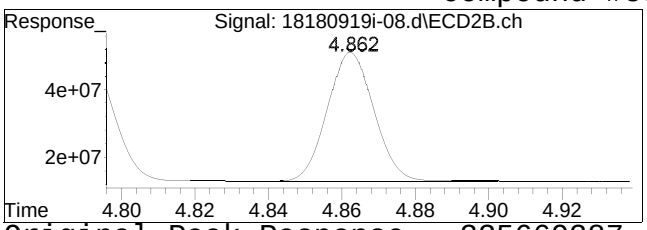
Compound #15: 4,4'-DDE

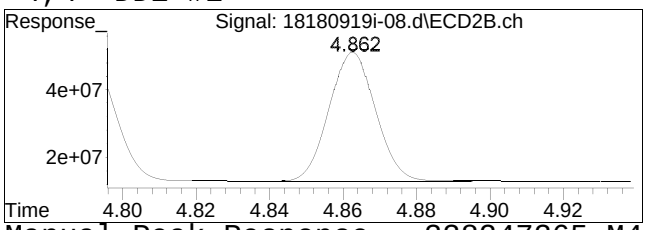




Original Peak Response = 276044290 Manual Peak Response = 278851086 M4
M4 = Poor automated baseline construction.

Compound #53: 4,4'-DDE #2





Original Peak Response = 335669387 Manual Peak Response = 338247365 M4
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

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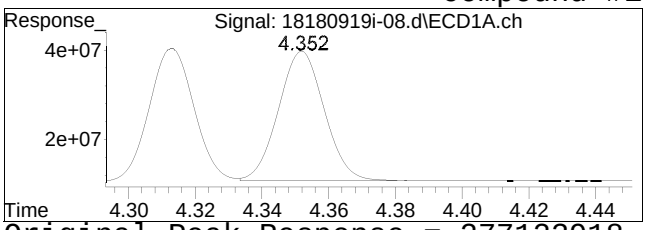
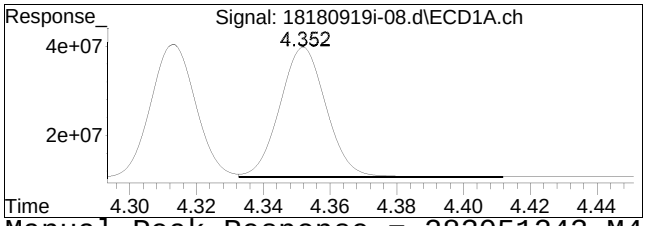
QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/26/2018 5:12 pm

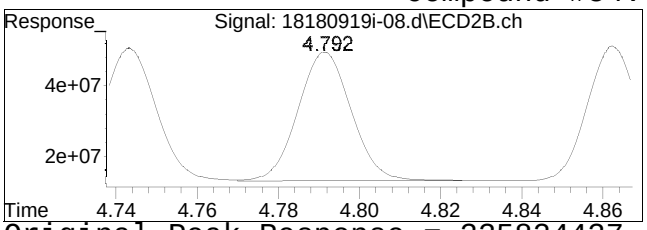
Compound #16: Endosulfan I

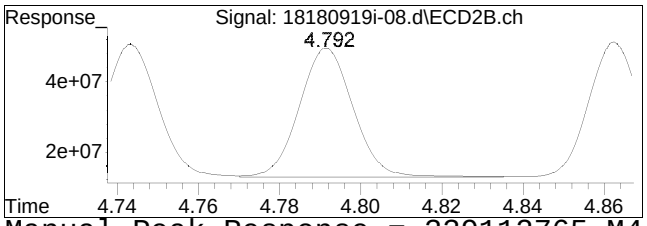




Original Peak Response = 277123918 Manual Peak Response = 283051243 M4
M4 = Poor automated baseline construction.

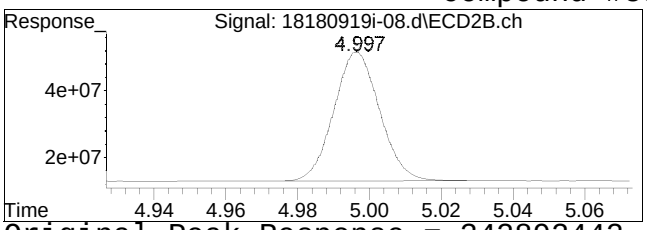
Compound #54: Endosulfan I #2

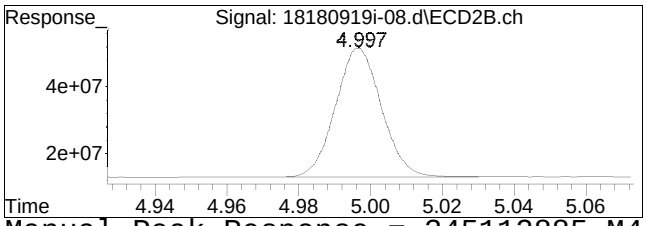




Original Peak Response = 335824437 Manual Peak Response = 339112765 M4
M4 = Poor automated baseline construction.

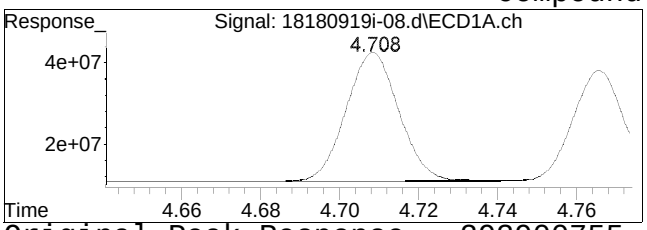
Compound #55: Dieldrin #2

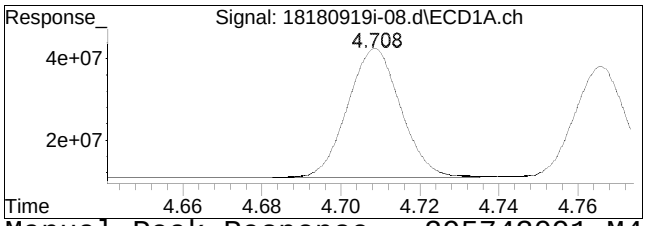




Original Peak Response = 342892442 Manual Peak Response = 345112885 M4
M4 = Poor automated baseline construction.

Compound #18: Endrin





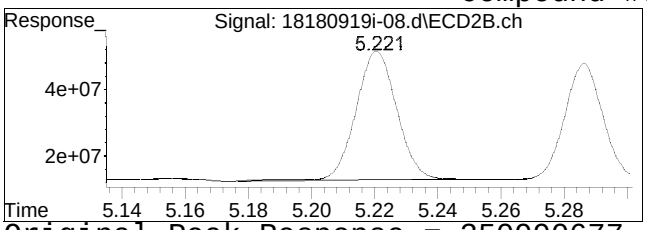
Original Peak Response = 293900755 Manual Peak Response = 295743091 M4
M4 = Poor automated baseline construction.

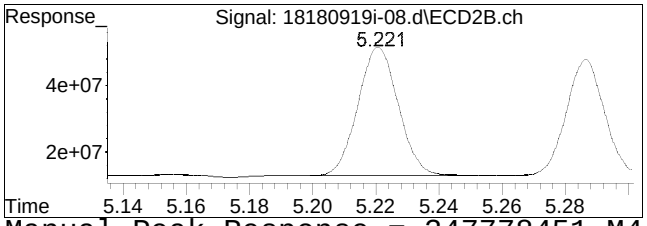
Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-08.d
Date Inj'd : 9/19/2018 7:27 pm
Sample : il7pest,42e,,pp8819

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/26/2018 5:12 pm

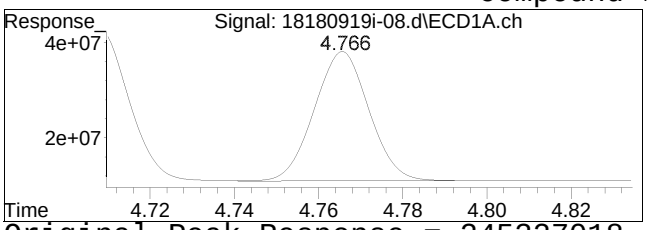
Compound #56: Endrin #2

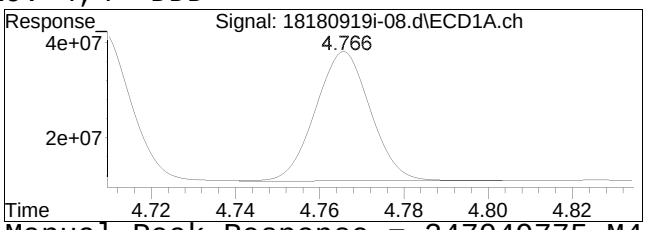




Original Peak Response = 350990677 Manual Peak Response = 347778451 M4
M4 = Poor automated baseline construction.

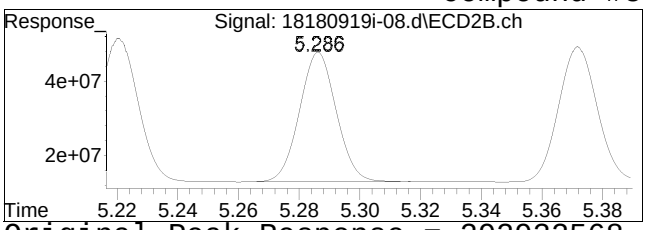
Compound #19: 4,4'-DDD

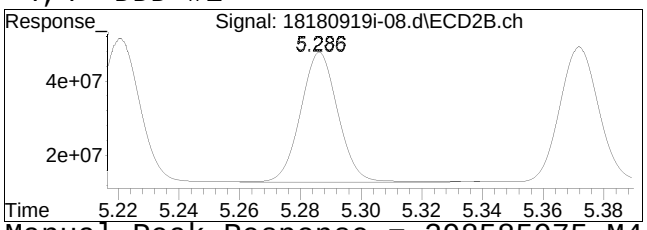




Original Peak Response = 245327018 Manual Peak Response = 247049775 M4
M4 = Poor automated baseline construction.

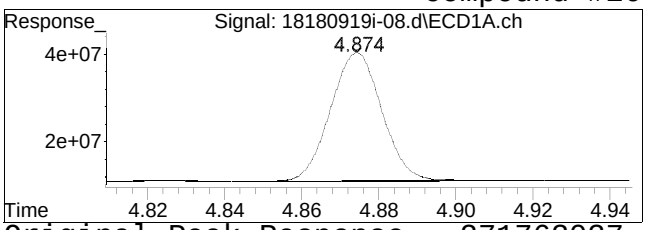
Compound #57: 4,4'-DDD #2

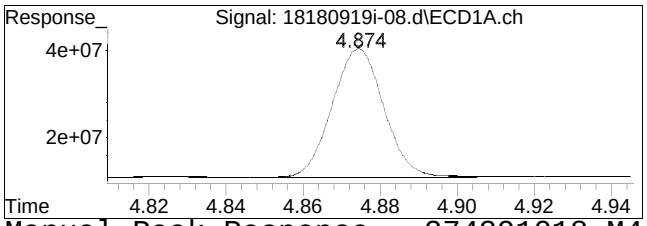




Original Peak Response = 292932568 Manual Peak Response = 298585975 M4
M4 = Poor automated baseline construction.

Compound #20: Endosulfan II





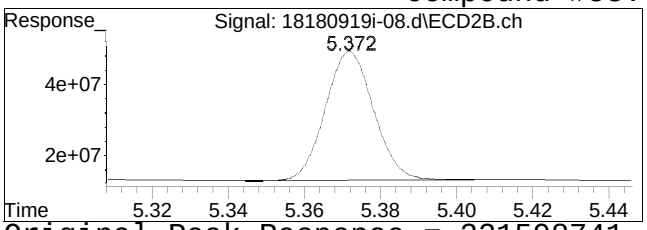
Original Peak Response = 271763037 Manual Peak Response = 274291018 M4
M4 = Poor automated baseline construction.

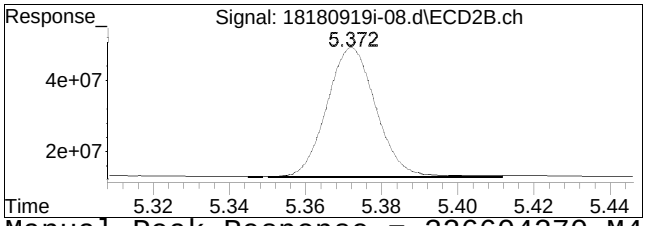
Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-08.d
Date Inj'd : 9/19/2018 7:27 pm
Sample : il7pest,42e,,pp8819

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/26/2018 5:12 pm

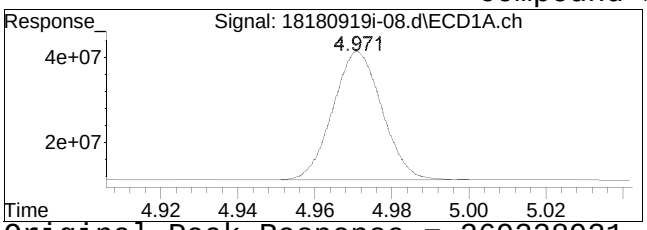
Compound #58: Endosulfan II #2

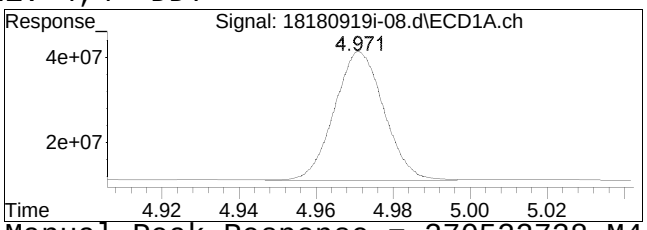




Original Peak Response = 321598741 Manual Peak Response = 326604270 M4
M4 = Poor automated baseline construction.

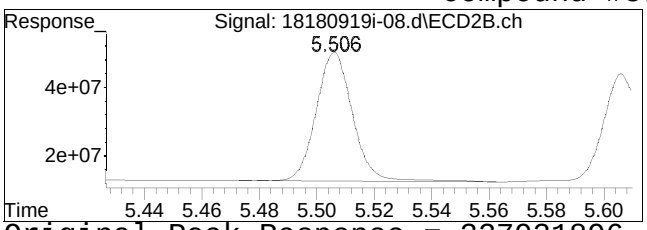
Compound #21: 4,4'-DDT

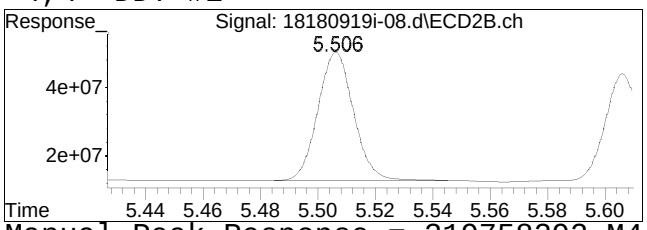




Original Peak Response = 269228921 Manual Peak Response = 270522738 M4
M4 = Poor automated baseline construction.

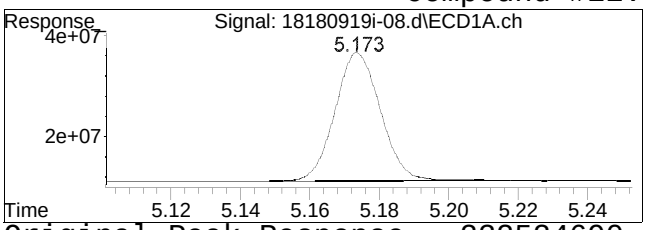
Compound #59: 4,4'-DDT #2

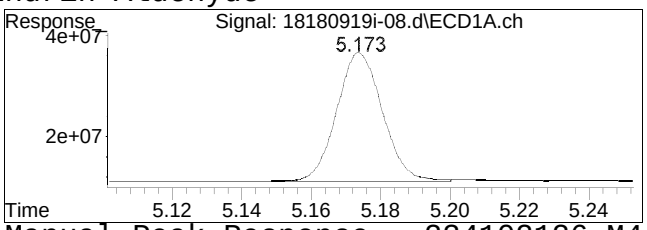




Original Peak Response = 327931896 Manual Peak Response = 319758292 M4
M4 = Poor automated baseline construction.

Compound #22: Endrin Aldehyde





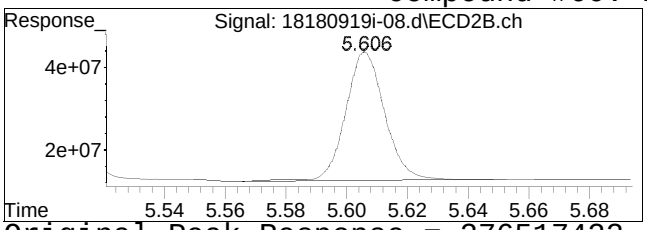
Original Peak Response = 232524690 Manual Peak Response = 234102126 M4
M4 = Poor automated baseline construction.

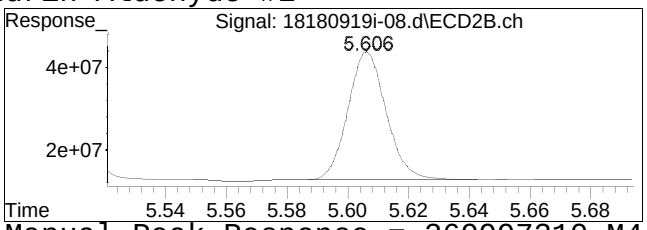
Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-08.d
Date Inj'd : 9/19/2018 7:27 pm
Sample : il7pest,42e,,pp8819

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/26/2018 5:12 pm

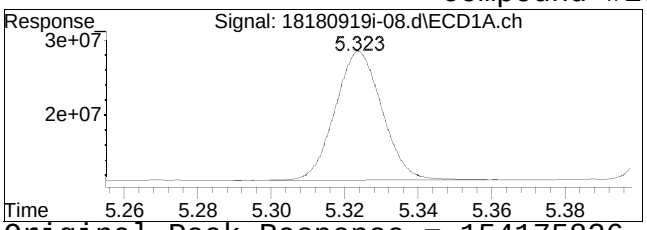
Compound #60: Endrin Aldehyde #2

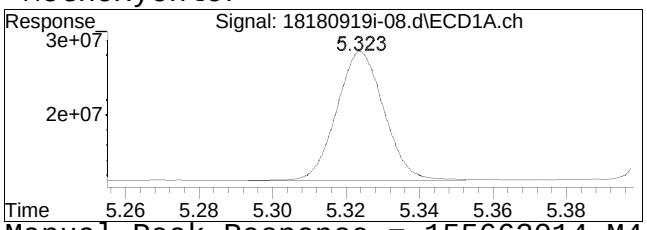




Original Peak Response = 276517422 Manual Peak Response = 269997310 M4
M4 = Poor automated baseline construction.

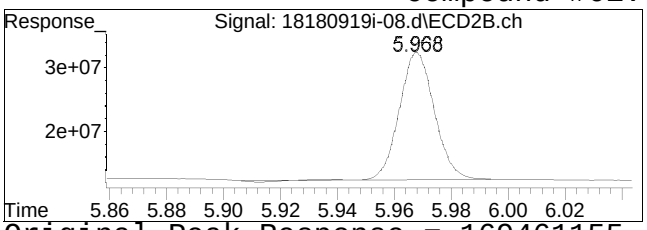
Compound #23: Methoxychlor

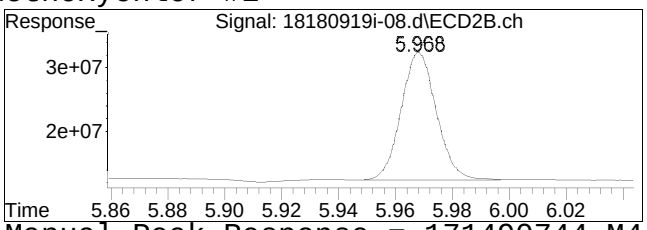




Original Peak Response = 154175826 Manual Peak Response = 155663014 M4
M4 = Poor automated baseline construction.

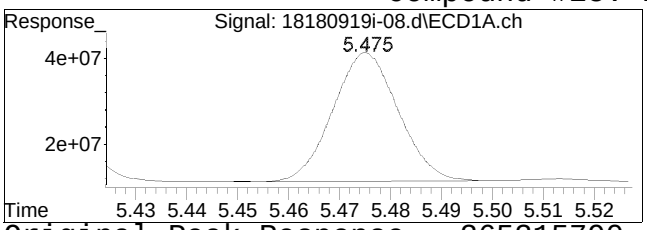
Compound #61: Methoxychlor #2

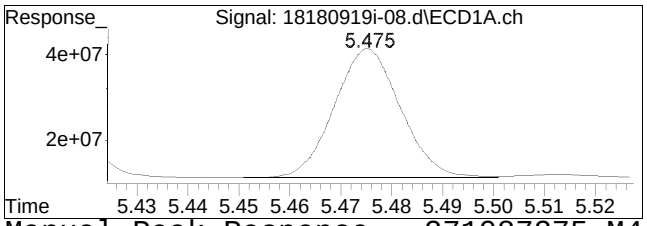




Original Peak Response = 169461155 Manual Peak Response = 171490744 M4
M4 = Poor automated baseline construction.

Compound #25: Endosulfan Sulfate





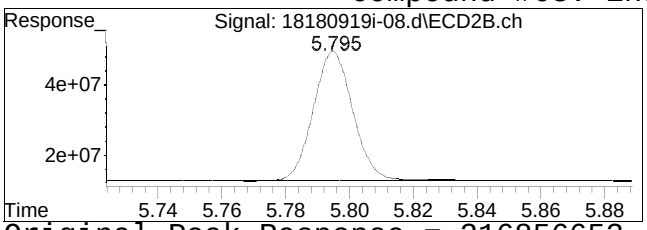
Original Peak Response = 265315790 Manual Peak Response = 271087275 M4
M4 = Poor automated baseline construction.

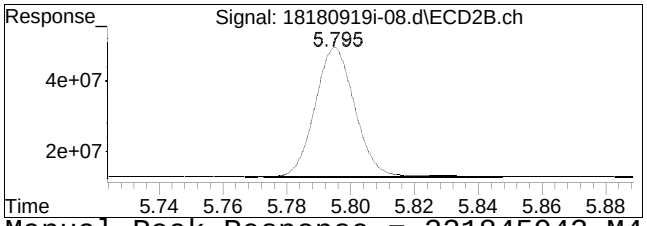
Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-08.d
Date Inj'd : 9/19/2018 7:27 pm
Sample : il7pest,42e,,pp8819

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/26/2018 5:12 pm

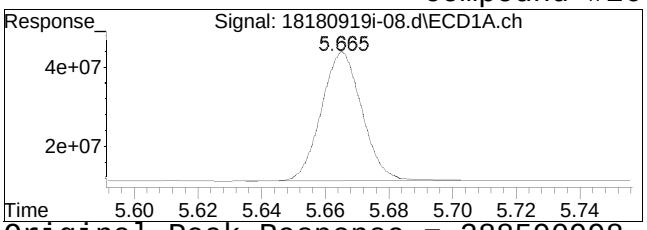
Compound #63: Endosulfan Sulfate #2

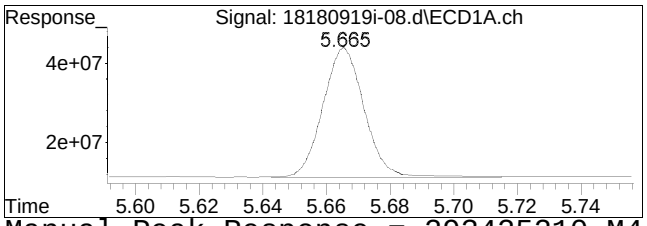




Original Peak Response = 316856653 Manual Peak Response = 321845943 M4
M4 = Poor automated baseline construction.

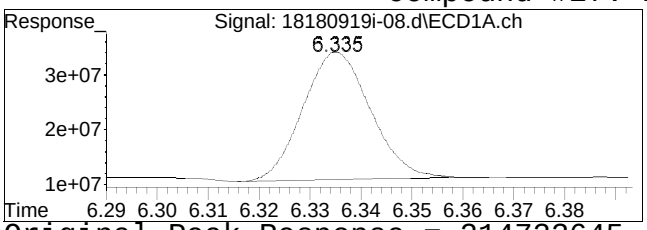
Compound #26: Endrin Ketone

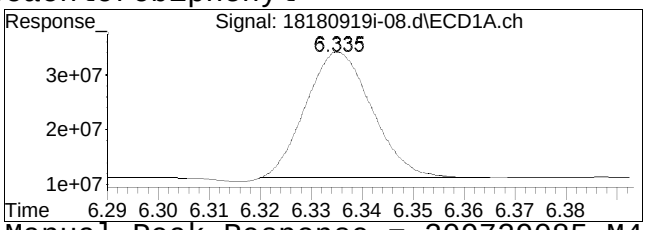




Original Peak Response = 288590998 Manual Peak Response = 293425210 M4
M4 = Poor automated baseline construction.

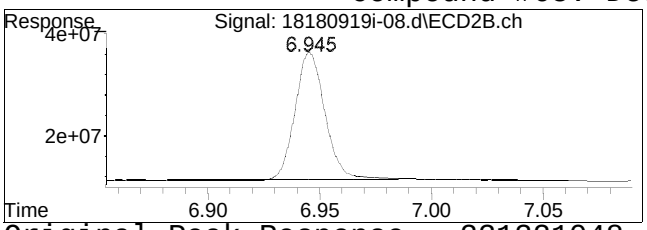
Compound #27: Decachlorobiphenyl

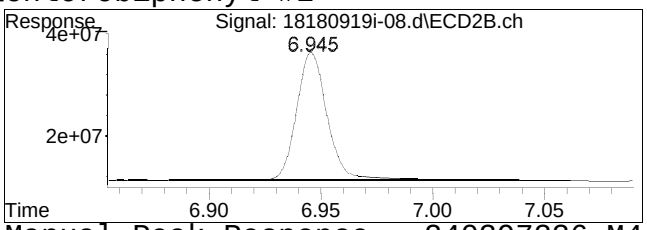




Original Peak Response = 214733645 Manual Peak Response = 209729085 M4
M4 = Poor automated baseline construction.

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 231321048 Manual Peak Response = 240397336 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-09.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Sep 2018 7:39 pm
Operator : PEST18:jw
Sample : il8pest,42e,,pp8820
Misc : wg1162772,ical (Sig #1); ical (Sig #2)
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 26 16:44:42 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Wed Sep 26 16:44:36 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l	
	Internal Standards							
1) i	1-br-2-nb...	1.883	2.002	525.2E6	626.1E6	25.000	25.000	
28) i	1-br-2-nb...	1.883	2.002f	525.2E6	626.1E6	25.000	25.000	
33) i	1-br-2-nb...	1.883f	0.000	525.2E6	0	25.000	N.D.	#
	System Monitoring Compounds							
2) s	2,4,5,6-T...	2.367	2.611	887.5E6	1065.0E6	50.000	50.326	
	Spiked Amount 50.000	Range 30 - 150		Recovery =		100.00%	100.65%	
27) s	Decachlor...	6.336	6.945	769.2E6	833.4E6	48.973	50.326	
	Spiked Amount 50.000	Range 30 - 150		Recovery =		97.95%	100.65%	
	Target Compounds							
3)	Hexachlor...	2.623	2.966	873.9E6	1037.2E6	50.000	50.326	
4)	alpha-BHC	2.740	3.071	1384.4E6	1670.8E6	50.000	50.326	
5)	gamma-BHC...	2.962	3.359	1250.2E6	1511.1E6	50.000	50.326	
6)	beta-BHC	3.024	3.424	562.3E6	696.0E6	50.000	50.326	
7)	delta-BHC	3.157	3.676	1269.9E6	1552.7E6	50.000	50.326	
8)	Heptachlor	3.320	3.733	1231.4E6	1512.7E6	49.563	50.326	
9)	Aldrin	3.556	4.016	1098.3E6	1351.8E6	48.869	50.326	
10)	Alachlor	3.664	3.910	152.2E6	169.1E6	48.625	50.326	
11)	Chlorpyrifos	3.750	4.192	609.0E6	761.7E6	48.649	50.326	
12)	Heptachlo...	4.044	4.484	1001.8E6	1217.8E6	49.046	50.326	
13)	gamma-Chl...	4.146	4.632	1104.5E6	1355.6E6	49.597	50.326	
14)	alpha-Chl...	4.249	4.743	1067.0E6	1257.4E6	49.220	50.326	
15)	4,4'-DDE	4.314	4.862	1029.7E6	1244.5E6	50.042	50.326	
16)	Endosulfan I	4.352	4.791	1002.8E6	1203.8E6	49.586	50.326	
17)	Dieldrin	4.536	4.997	1058.7E6	1254.9E6	49.312	50.326	
18)	Endrin	4.709	5.221	1084.0E6	1260.3E6	49.682	50.326	
19)	4,4'-DDD	4.766	5.287	915.1E6	1076.8E6	49.652	50.326	
20)	Endosulfa...	4.875	5.372	994.5E6	1170.1E6	49.429	50.326	
21)	4,4'-DDT	4.972	5.507	1002.4E6	1184.2E6	49.451	50.326	
22)	Endrin Al...	5.174	5.606	855.3E6	981.0E6	49.537	50.326	
23)	Methoxychlor	5.324	5.968	543.6E6	587.2E6	50.000	50.326	

Quantitation Report (QT Reviewed)

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-09.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Sep 2018 7:39 pm
Operator : PEST18:jw
Sample : il8pest,42e,,pp8820
Misc : wg1162772,ical (Sig #1); ical (Sig #2)
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 26 16:44:42 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Wed Sep 26 16:44:36 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)	Mirex	5.412	6.133	871.9E6	913.8E6	49.765	50.300
25)	Endosulfa...	5.476	5.795	1000.7E6	1165.3E6	50.000	50.326
26)	Endrin Ke...	5.666	6.161	1056.1E6	1169.0E6	50.000	50.326
29) l1	chlordane-1	3.199	3.615	45327228	30495473	NoCal	NoCal
30) l1	chlordane-2	3.320f	3.733	1231.4E6	1512.7E6	NoCal	NoCal
31) l1	chlordane-3	4.146f	4.743f	1104.5E6	1257.4E6	NoCal	NoCal
32) l1	chlordane-4	4.249f	4.743	1067.0E6	1257.4E6	NoCal	NoCal
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	4.875	5.372	994.5E6	1170.1E6	NoCal	NoCal
35) l2	toxaphene-2	4.972	5.372f	1002.4E6	1170.1E6	NoCal	NoCal
36) l2	toxaphene-3	0.000	5.507f	0	1184.2E6	N.D.	NoCal
37) l2	toxaphene-5	5.412	5.968f	871.9E6	587.2E6	NoCal	NoCal
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

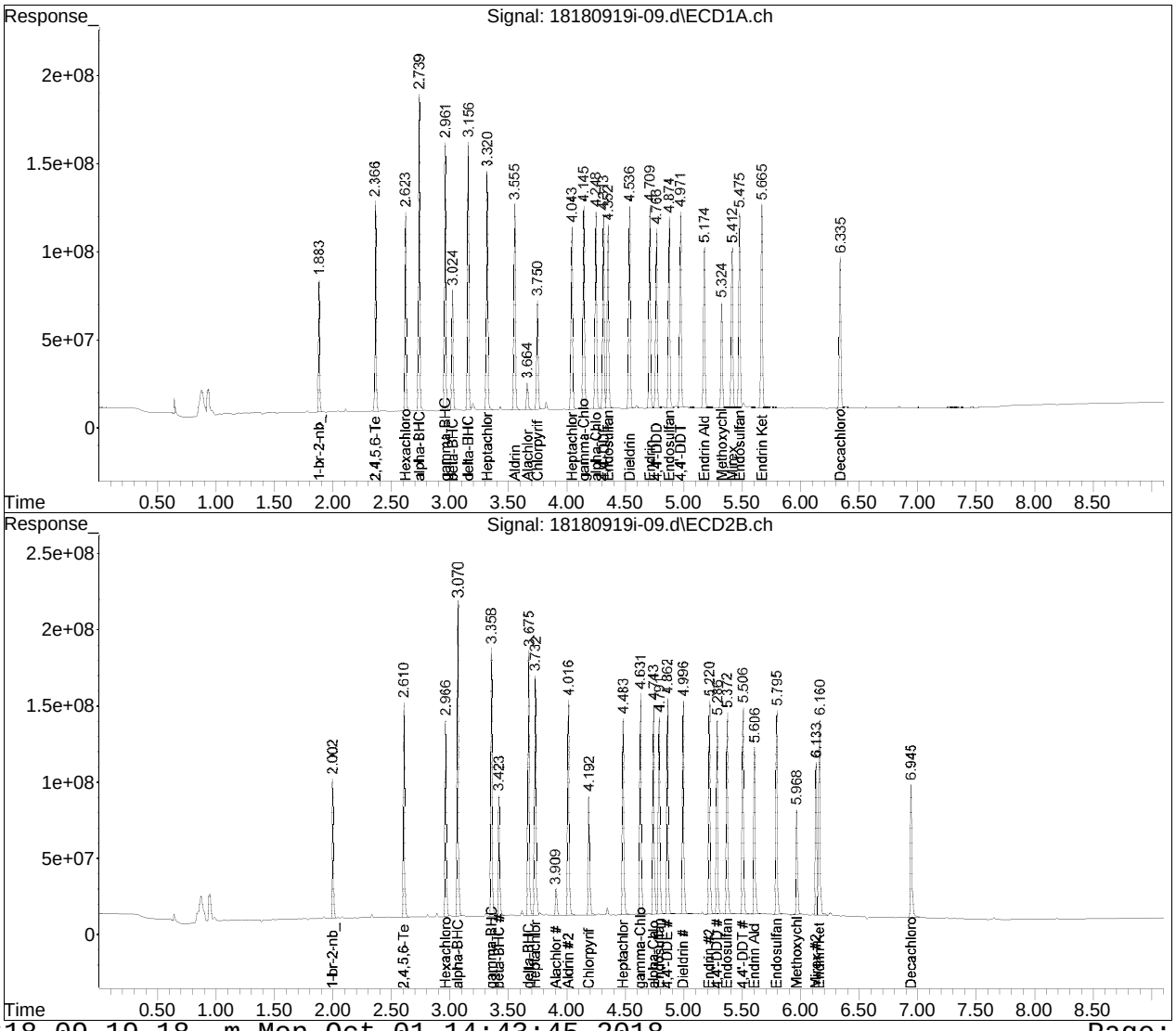
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-09.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Sep 2018 7:39 pm
Operator : PEST18:jw
Sample : il8pest,42e,,pp8820
Misc : wg1162772,ical (Sig #1); ical (Sig #2)
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 26 16:44:42 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Wed Sep 26 16:44:36 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration/Negative Proof Report

Data Path	: I:\Pest18\180919ical\	QMethod	: pest18_09_19_18_.m
Data File	: 18180919i-09.d	Operator	: PEST18:jw
Date Inj'd	: 9/19/2018 7:39 pm	Instrument	: Pest 18
Sample	: il8pest,42e,,pp8820	Quant Date	: 9/26/2018 4:44 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-10.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Sep 2018 7:52 pm
Operator : PEST18:jw
Sample : il9pest,42e,,pp8821
Misc : wg1162772,ical (Sig #1); ical (Sig #2)
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 26 17:06:05 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Wed Sep 26 16:48:52 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb...	1.883	2.002	526.6E6	628.7E6	25.000	25.000
28) i	1-br-2-nb...	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb...	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-T...	2.366	2.610	2153.3E6	2573.6E6	120.993	121.116
	Spiked Amount 50.000	Range 30 - 150		Recovery =		241.99%#	242.23%#
27) s	Decachlor...	6.340	6.955	2008.7E6	2042.1E6	127.554	122.807
	Spiked Amount 50.000	Range 30 - 150		Recovery =		255.11%#	245.61%#
	Target Compounds						
3)	Hexachlor...	2.623	2.966	2170.7E6	2585.9E6	123.863	124.964
4)	alpha-BHC	2.740	3.071	3516.1E6	4250.0E6	126.658	127.488
5)	gamma-BHC...	2.961	3.359	3157.3E6	3846.3E6	125.933	127.571
6)	beta-BHC	3.024	3.423	1368.7E6	1728.2E6	121.393	124.440
7)	delta-BHC	3.157	3.676	3236.5E6	3983.8E6	127.095	128.596
8)	Heptachlor	3.320	3.733	3043.2E6	3748.2E6	122.157	124.191
9)	Aldrin	3.556	4.016	2776.8E6	3395.5E6	123.226	125.898
10)	Alachlor	3.664	3.910	354.5E6	390.4E6	112.964	115.704
11)	Chlorpyrifos	3.750	4.192	1454.7E6	1797.9E6	115.887	118.306
12)	Heptachlo...	4.044	4.484	2510.8E6	3030.5E6	122.602	124.723
13)	gamma-Chl...	4.146	4.632	2828.0E6	3409.8E6	126.655	126.068
14)	alpha-Chl...	4.249	4.744	2708.3E6	3206.6E6	124.600	127.820
15)	4,4'-DDE	4.314	4.863	2644.7E6	3208.9E6	128.186	129.233
16)	Endosulfan I	4.353	4.792	2511.3E6	3006.6E6	123.849	125.180
17)	Dieldrin	4.537	4.997	2690.2E6	3170.6E6	124.977	126.630
18)	Endrin	4.709	5.221	2738.1E6	3153.1E6	125.159	125.395
19)	4,4'-DDD	4.767	5.287	2348.5E6	2774.6E6	127.085	129.142
20)	Endosulfa...	4.875	5.373	2485.6E6	2897.2E6	123.216	124.098
21)	4,4'-DDT	4.972	5.507	2582.7E6	2970.0E6	127.070	125.705
22)	Endrin Al...	5.174	5.607	2181.3E6	2493.1E6	126.007	127.376
23)	Methoxychlor	5.324	5.970	1271.4E6	1443.7E6	116.635	123.217

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-10.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Sep 2018 7:52 pm
Operator : PEST18:jw
Sample : il9pest,42e,,pp8821
Misc : wg1162772,ical (Sig #1); ical (Sig #2)
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 26 17:06:05 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Wed Sep 26 16:48:52 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)	Mirex	5.412	6.136	1863.0E6	1980.0E6	106.045	108.545
25)	Endosulfa...	5.476	5.796	2546.7E6	2961.6E6	126.910	127.377
26)	Endrin Ke...	5.666	6.164	2613.3E6	2921.1E6	123.399	125.243
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

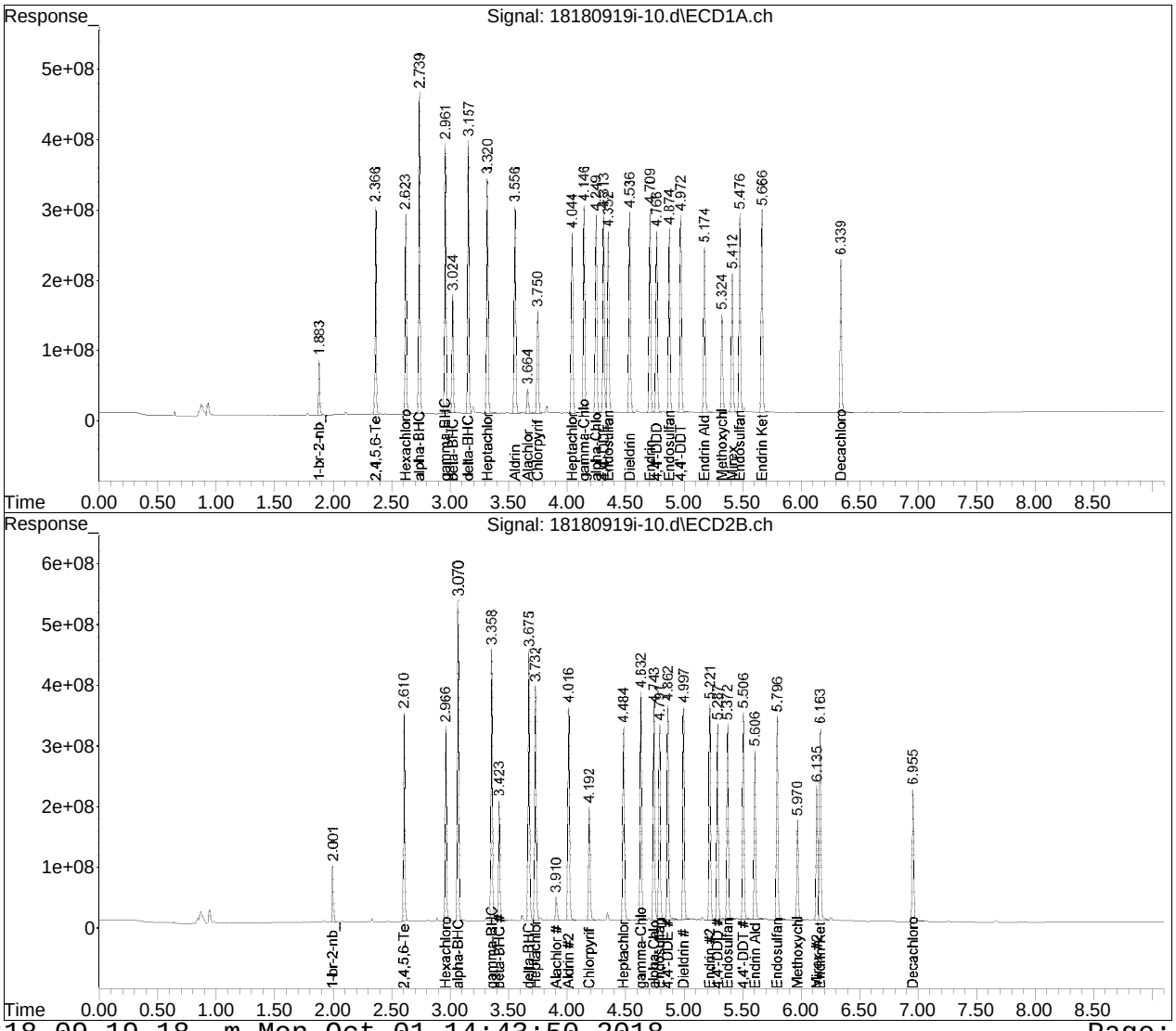
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-10.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Sep 2018 7:52 pm
Operator : PEST18:jw
Sample : il9pest,42e,,pp8821
Misc : wg1162772,ical (Sig #1); ical (Sig #2)
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 26 17:06:05 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Wed Sep 26 16:48:52 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration/Negative Proof Report

Data Path	: I:\Pest18\180919ical\	QMethod	: pest18_09_19_18_.m
Data File	: 18180919i-10.d	Operator	: PEST18:jw
Date Inj'd	: 9/19/2018 7:52 pm	Instrument	: Pest 18
Sample	: il9pest,42e,,pp8821	Quant Date	: 9/26/2018 5:05 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-11.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Sep 2018 8:05 pm
Operator : PEST18:jw
Sample : il10pest,42e,,pp8822
Misc : wg1162772,ical (Sig #1); ical (Sig #2)
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 26 17:06:45 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Wed Sep 26 17:06:21 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb...	1.884	2.002	517.9E6	606.6E6	25.000	25.000
28) i	1-br-2-nb...	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb...	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-T...	2.367	2.611	4018.6E6	4737.5E6	207.803	208.999
	Spiked Amount 50.000	Range 30 - 150		Recovery =		415.61%#	418.00%#
27) s	Decachlor...	6.338	6.952	3595.7E6	3800.2E6	204.068	212.606
	Spiked Amount 50.000	Range 30 - 150		Recovery =		408.14%#	425.21%#
	Target Compounds						
3)	Hexachlor...	2.623	2.967	4020.2E6	4708.1E6	208.406	209.630
4)	alpha-BHC	2.740	3.071	6616.1E6	7933.5E6	213.842	216.844
5)	gamma-BHC...	2.962	3.359	5924.3E6	7091.6E6	212.708	214.238
6)	beta-BHC	3.024	3.424	2570.5E6	3187.9E6	209.424	211.998
7)	delta-BHC	3.157	3.676	6148.2E6	7398.2E6	216.220	216.543
8)	Heptachlor	3.321	3.733	5466.5E6	6641.9E6	200.879	203.470
9)	Aldrin	3.556	4.017	5024.0E6	6074.1E6	203.123	206.651
10)	Alachlor	3.664	3.910	607.3E6	664.3E6	184.813	189.220
11)	Chlorpyrifos	3.751	4.193	2551.7E6	3127.2E6	191.502	195.380
12)	Heptachlo...	4.044	4.485	4495.7E6	5416.0E6	200.564	205.600
13)	gamma-Chl...	4.146	4.632	5167.7E6	6213.5E6	207.672	210.636
14)	alpha-Chl...	4.250	4.744	4953.6E6	5813.4E6	206.364	210.837
15)	4,4'-DDE	4.314	4.863	4863.2E6	5892.7E6	210.088	214.592
16)	Endosulfan I	4.353	4.792	4502.1E6	5373.6E6	201.726	205.944
17)	Dieldrin	4.537	4.997	4882.5E6	5784.3E6	205.043	211.293
18)	Endrin	4.709	5.222	4916.9E6	5641.2E6	203.007	206.313
19)	4,4'-DDD	4.766	5.287	4304.1E6	5163.9E6	208.594	217.421
20)	Endosulfa...	4.875	5.373	4292.1E6	5065.5E6	193.851	200.694
21)	4,4'-DDT	4.972	5.507	4708.6E6	5410.7E6	207.491	210.310
22)	Endrin Al...	5.174	5.607	3965.8E6	4606.9E6	206.151	214.573
23)	Methoxychlor	5.324	5.970	2256.7E6	2611.6E6	194.354	206.985

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-11.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Sep 2018 8:05 pm
Operator : PEST18:jw
Sample : il10pest,42e,,pp8822
Misc : wg1162772,ical (Sig #1); ical (Sig #2)
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 26 17:06:45 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Wed Sep 26 17:06:21 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)	Mirex	5.412	6.135	3379.2E6	3589.1E6	189.861	195.563
25)	Endosulfa...	5.475	5.796	4582.0E6	5346.3E6	204.650	209.616
26)	Endrin Ke...	5.666	6.163	4594.5E6	5173.0E6	197.508	204.104
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

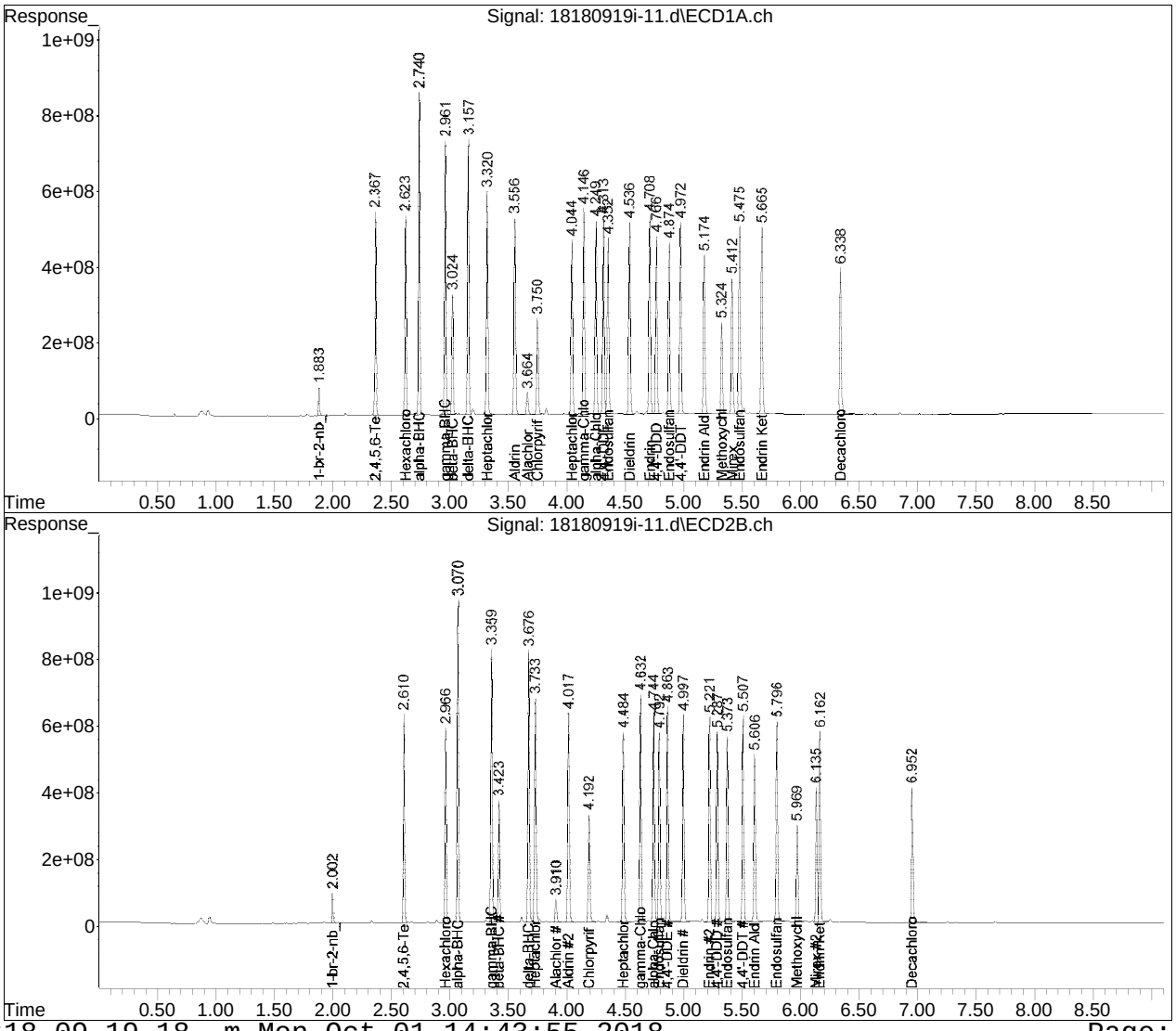
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-11.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Sep 2018 8:05 pm
Operator : PEST18:jw
Sample : il10pest,42e,,pp8822
Misc : wg1162772,ical (Sig #1); ical (Sig #2)
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 26 17:06:45 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Wed Sep 26 17:06:21 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration/Negative Proof Report

Data Path	: I:\Pest18\180919ical\	QMethod	: pest18_09_19_18_.m
Data File	: 18180919i-11.d	Operator	: PEST18:jw
Date Inj'd	: 9/19/2018 8:05 pm	Instrument	: Pest 18
Sample	: il10pest,42e,,pp8822	Quant Date	: 9/26/2018 5:06 pm

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-12.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 19 Sep 2018   8:17 pm
Operator : PEST18:jw
Sample   : cicvpest,42e,,pp8866
Misc   : wg1162772,ical (Sig #1); ical (Sig #2)
ALS Vial : 12   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 16:47:22 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Thu Sep 27 16:45:24 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	25.000	25.000	0.0	101	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen	50.000	49.386	1.2	116	0.00
3		Hexachlorobenzene	50.000	52.897	-5.8	126	0.00
4		alpha-BHC	50.000	43.409	13.2	106	0.00
5		gamma-BHC (lindane)	50.000	43.844	12.3	106	0.00
6		beta-BHC	50.000	44.997	10.0	107	0.00
7		delta-BHC	50.000	43.594	12.8	107	0.00
8		Heptachlor	50.000	46.686	6.6	108	0.00
9		Aldrin	50.000	46.782	6.4	109	0.00
10		Alachlor	50.000	51.152	-2.3	132	0.00
11		Chlorpyrifos	50.000	48.208	3.6	106	0.00
12		Heptachlor Epoxide	50.000	49.309	1.4	115	0.00
13		gamma-Chlordane (trans)	50.000	45.190	9.6	109	0.00
14		alpha-Chlordane (cis)	50.000	44.912	10.2	107	0.00
15		4,4'-DDE	50.000	45.697	8.6	111	0.00
16		Endosulfan I	50.000	45.555	8.9	107	0.00
17		Dieldrin	50.000	48.809	2.4	116	0.00
18		Endrin	50.000	47.563	4.9	112	0.00
19		4,4'-DDD	50.000	45.730	8.5	110	0.00
20		Endosulfan II	50.000	46.480	7.0	106	0.00
21		4,4'-DDT	50.000	48.045	3.9	116	0.00
22		Endrin Aldehyde	50.000	46.286	7.4	111	0.00
23		Methoxychlor	50.000	48.228	3.5	107	0.00
24		Mirex	50.000	51.235	-2.5	106	0.00
25		Endosulfan Sulfate	50.000	45.575	8.8	109	0.00
26		Endrin Ketone	50.000	50.254	-0.5	116	0.00
27	s	Decachlorobiphenyl	50.000	49.491	1.0	119	0.00

Signal #2

Evaluate Continuing Calibration Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-12.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 19 Sep 2018   8:17 pm
Operator : PEST18:jw
Sample   : cicvpest,42e,,pp8866
Misc   : wg1162772,ical (Sig #1); ical (Sig #2)
ALS Vial : 12   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 16:47:22 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Thu Sep 27 16:45:24 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	25.000	25.000	0.0	100	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl	50.000	50.635	-1.3	118	0.00
3		Hexachlorobenzene	50.000	53.978	-8.0	128	0.00
4		alpha-BHC	50.000	44.297	11.4	108	0.00
5		gamma-BHC (lindane)	50.000	44.922	10.2	109	0.00
6		beta-BHC	50.000	45.225	9.5	108	0.00
7		delta-BHC	50.000	44.200	11.6	108	0.00
8		Heptachlor	50.000	47.714	4.6	111	0.00
9		Aldrin	50.000	48.125	3.8	114	0.00
10		Alachlor	50.000	51.174	-2.3	134	0.00
11		Chlorpyrifos	50.000	47.755	4.5	106	0.00
12		Heptachlor Epoxide	50.000	50.394	-0.8	118	0.00
13		gamma-Chlordane (trans)	50.000	46.164	7.7	110	0.00
14		alpha-Chlordane (cis)	50.000	43.684	12.6	105	0.00
15		4,4'-DDE	50.000	46.289	7.4	113	0.00
16		Endosulfan I	50.000	48.228	3.5	113	0.00
17		Dieldrin	50.000	49.559	0.9	119	0.00
18		Endrin	50.000	49.256	1.5	116	0.00
19		4,4'-DDD	50.000	46.427	7.1	114	0.00
20		Endosulfan II	50.000	46.862	6.3	108	0.00
21		4,4'-DDT	50.000	48.908	2.2	116	0.00
22		Endrin Aldehyde	50.000	46.617	6.8	113	0.00
23		Methoxychlor	50.000	48.494	3.0	114	0.00
24		Mirex	50.000	51.553	-3.1	109	0.00
25		Endosulfan Sulfate	50.000	47.753	4.5	114	0.00
26		Endrin Ketone	50.000	50.964	-1.9	119	0.00
27	s	Decachlorobiphenyl	50.000	51.282	-2.6	121	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-12.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 19 Sep 2018   8:17 pm
Operator : PEST18:jw
Sample   : cicvpest,42e,,pp8866
Misc   : wg1162772,ical (Sig #1); ical (Sig #2)
ALS Vial : 12   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 16:47:22 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Thu Sep 27 16:45:24 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	25.000	25.000	0.0	0	-1.88#
29	l1	chlordane-1	2500.000	0.000	100.0#	0	-3.26#
30	l1	chlordane-2	2500.000	0.000	100.0#	0	-3.32#
31	l1	chlordane-3	2500.000	0.000	100.0#	0	-4.15#
32	l1	chlordane-4	2500.000	0.000	100.0#	0	-4.24#
33	i	1-br-2-nb_Toxaphene	25.000	25.000	0.0	0	-1.88#
34	l2	toxaphene-1	5000.000	0.000	100.0#	0	-4.86#
35	l2	toxaphene-2	5000.000	0.000	100.0#	0	-4.95#
36	l2	toxaphene-3	5000.000	0.000	100.0#	0	-5.11#
37	l2	toxaphene-5	5000.000	0.000	100.0#	0	-5.41#

Signal #2

28	i	1-br-2-nb_Chlordane	25.000	25.000	0.0	0	-2.00#
29	l1	chlordane-1	2500.000	0.000	100.0#	0	-3.61#
30	l1	chlordane-2	2500.000	0.000	100.0#	0	-3.73#
31	l1	chlordane-3	2500.000	0.000	100.0#	0	-4.70#
32	l1	chlordane-4	2500.000	0.000	100.0#	0	-4.74#
33	i	1-br-2-nb_Toxaphene	25.000	25.000	0.0	0	-2.00#
34	l2	toxaphene-1	5000.000	0.000	100.0#	0	-5.34#
35	l2	toxaphene-2	5000.000	0.000	100.0#	0	-5.37#
36	l2	toxaphene-3	5000.000	0.000	100.0#	0	-5.43#
37	l2	toxaphene-5	5000.000	0.000	100.0#	0	-5.97#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-12.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Sep 2018 8:17 pm
Operator : PEST18:jw
Sample : cicvpest,42e,,pp8866
Misc : wg1162772,ical (Sig #1); ical (Sig #2)
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 16:47:22 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Thu Sep 27 16:45:24 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb...	1.884	2.002	531.6E6	629.2E6	25.000	25.000
28) i	1-br-2-nb...	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb...	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-T...	2.367	2.611	1027.6E6	1251.9E6	49.386	50.635
	Spiked Amount 50.000	Range 30 - 150		Recovery =		98.77%	101.27%
27) s	Decachlor...	6.338	6.951	931.5E6	1012.3E6	49.491	51.282
	Spiked Amount 50.000	Range 30 - 150		Recovery =		98.98%	102.56%
	Target Compounds						
3)	Hexachlor...	2.623	2.967	1102.8E6	1328.7E6	52.897	53.978
4)	alpha-BHC	2.739	3.071	1463.5E6	1800.8E6	43.409	44.297
5)	gamma-BHC...	2.961	3.359	1329.2E6	1643.7E6	43.844M4	44.922
6)	beta-BHC	3.024	3.423	599.7E6	751.5E6	44.997M2	45.225M2
7)	delta-BHC	3.157	3.676	1361.1E6	1677.3E6	43.594	44.200
8)	Heptachlor	3.320	3.733	1345.0E6	1680.3E6	46.686M2	47.714
9)	Aldrin	3.556	4.016	1227.1E6	1534.5E6	46.782	48.125
10)	Alachlor	3.664	3.910	206.3E6	226.6E6	51.152	51.174
11)	Chlorpyrifos	3.750	4.193	663.9E6	808.2E6	48.208	47.755
12)	Heptachlo...	4.044	4.484	1169.7E6	1438.9E6	49.309	50.394
13)	gamma-Chl...	4.145	4.632	1210.9E6	1495.3E6	45.190	46.164
14)	alpha-Chl...	4.249	4.744	1157.3E6	1324.0E6	44.912	43.684
15)	4,4'-DDE	4.313	4.862	1145.0E6	1406.3E6	45.697	46.289
16)	Endosulfan I	4.352	4.792	1078.7E6	1364.1E6	45.555	48.228
17)	Dieldrin	4.536	4.997	1240.2E6	1488.1E6	48.809	49.559
18)	Endrin	4.709	5.221	1223.5E6	1459.0E6	47.563	49.256
19)	4,4'-DDD	4.766	5.287	1016.5E6	1229.8E6	45.730	46.427
20)	Endosulfa...	4.874	5.372	1068.0E6	1264.8E6	46.480	46.862
21)	4,4'-DDT	4.971	5.506	1171.1E6	1375.7E6	48.045	48.908
22)	Endrin Al...	5.174	5.606	955.0E6	1109.5E6	46.286	46.617

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-12.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Sep 2018 8:17 pm
Operator : PEST18:jw
Sample : cicvpest,42e,,pp8866
Misc : wg1162772,ical (Sig #1); ical (Sig #2)
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 16:47:22 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Thu Sep 27 16:45:24 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)	Methoxychlor	5.324	5.970	583.6E6	667.6E6	48.228	48.494
24)	Mirex	5.412	6.135	932.0E6	994.4E6	51.235	51.553
25)	Endosulfa...	5.475	5.795	1088.7E6	1332.1E6	45.575	47.753
26)	Endrin Ke...	5.666	6.162	1224.9E6	1389.6E6	50.254	50.964
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

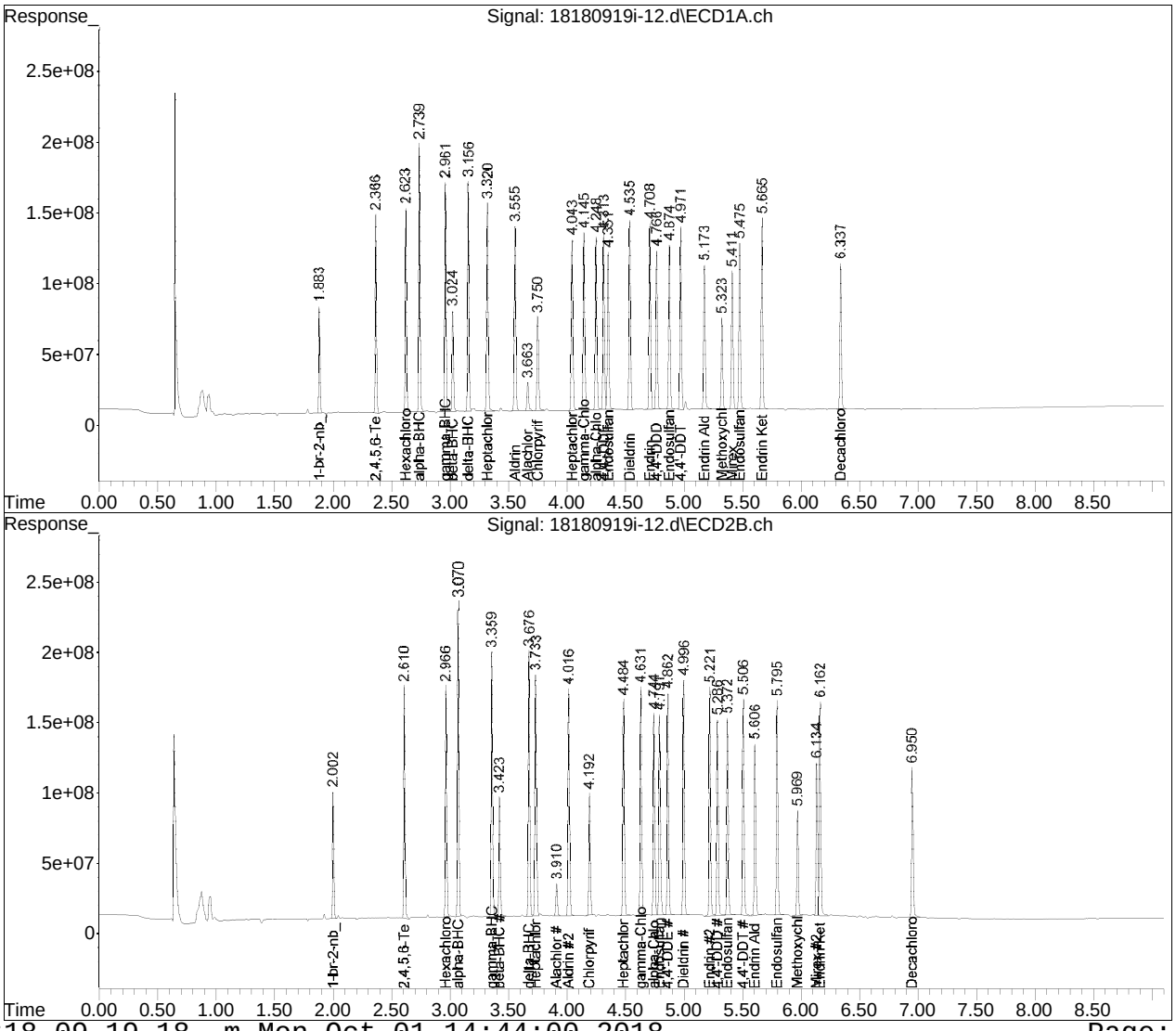
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-12.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Sep 2018 8:17 pm
Operator : PEST18:jw
Sample : cicvpest,42e,,pp8866
Misc : wg1162772,ical (Sig #1); ical (Sig #2)
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 16:47:22 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Thu Sep 27 16:45:24 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

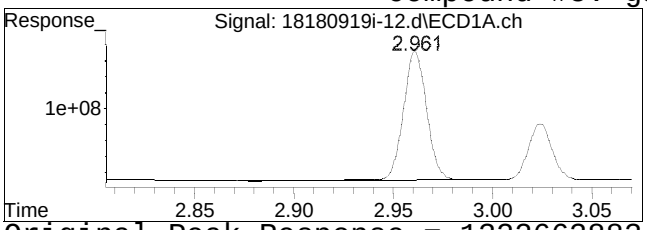


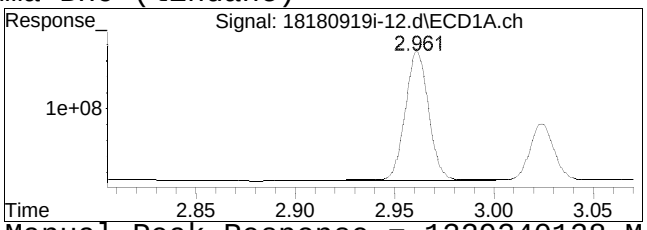
Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-12.d
Date Inj'd : 9/19/2018 8:17 pm
Sample : cicvpest,42e,,pp8866

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/27/2018 4:47 pm

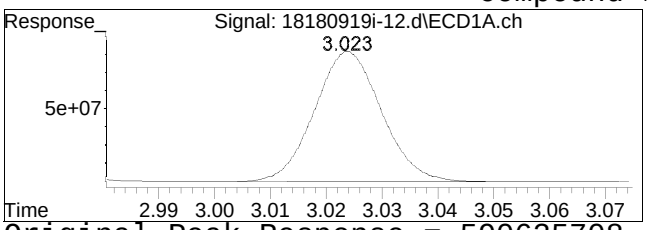
Compound #5: gamma-BHC (lindane)

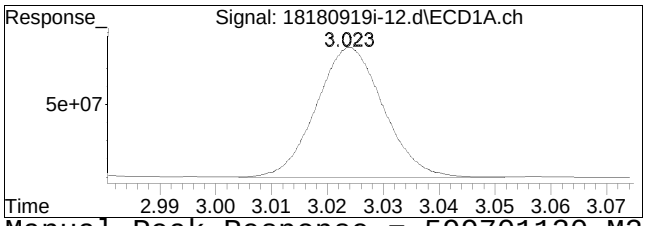




Original Peak Response = 1322663883 Manual Peak Response = 1329240138 M4
M4 = Poor automated baseline construction.

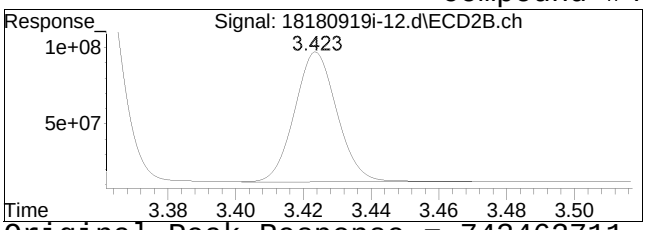
Compound #6: beta-BHC

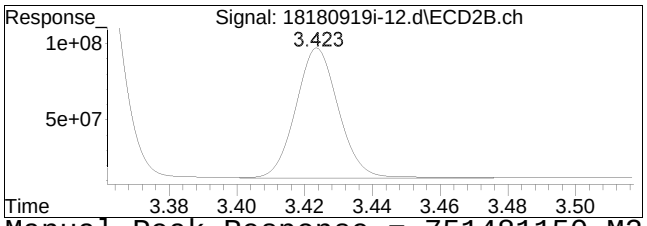




Original Peak Response = 590635708 Manual Peak Response = 599701130 M2
M2 = Peak not found by automatic integration algorithm.

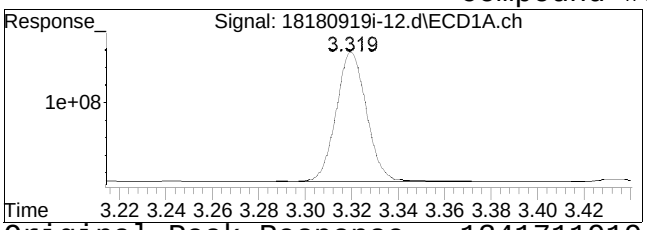
Compound #44: beta-BHC #2

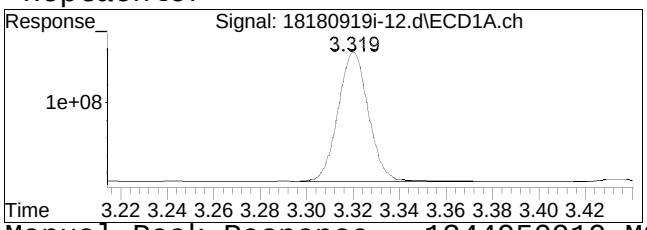




Original Peak Response = 743463711 Manual Peak Response = 751481150 M2
M2 = Peak not found by automatic integration algorithm.

Compound #8: Heptachlor





Original Peak Response = 1341711919 Manual Peak Response = 1344950919 M2
M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-14.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Sep 2018 8:43 pm
Operator : PEST18:jw
Sample : il2chlor,42e,,pp8790
Misc : wg1162772,ical
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 17:00:15 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Thu Sep 27 16:59:21 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb...	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb...	1.883	2.003	533.3E6	626.8E6	25.000	25.000
33) i	1-br-2-nb...	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-T...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
27) s	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC...	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-14.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Sep 2018 8:43 pm
Operator : PEST18:jw
Sample : il2chlor,42e,,pp8790
Misc : wg1162772,ical
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 17:00:15 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Thu Sep 27 16:59:21 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	3.255	3.606	10123881	11010218	12.906M4	11.768M4
30) l1	chlordane-2	3.319	3.732	19988866	22475953	12.881M4	11.764M4
31) l1	chlordane-3	4.145	4.702	36963395	37331946	11.807M4	11.954
32) l1	chlordane-4	4.244	4.744	61103533	30385135	12.496M4	11.283
Sum	chlordane-1			128.2E6	101.2E6	N.D.	N.D.
Average	chlordane-1					12.523	11.692
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

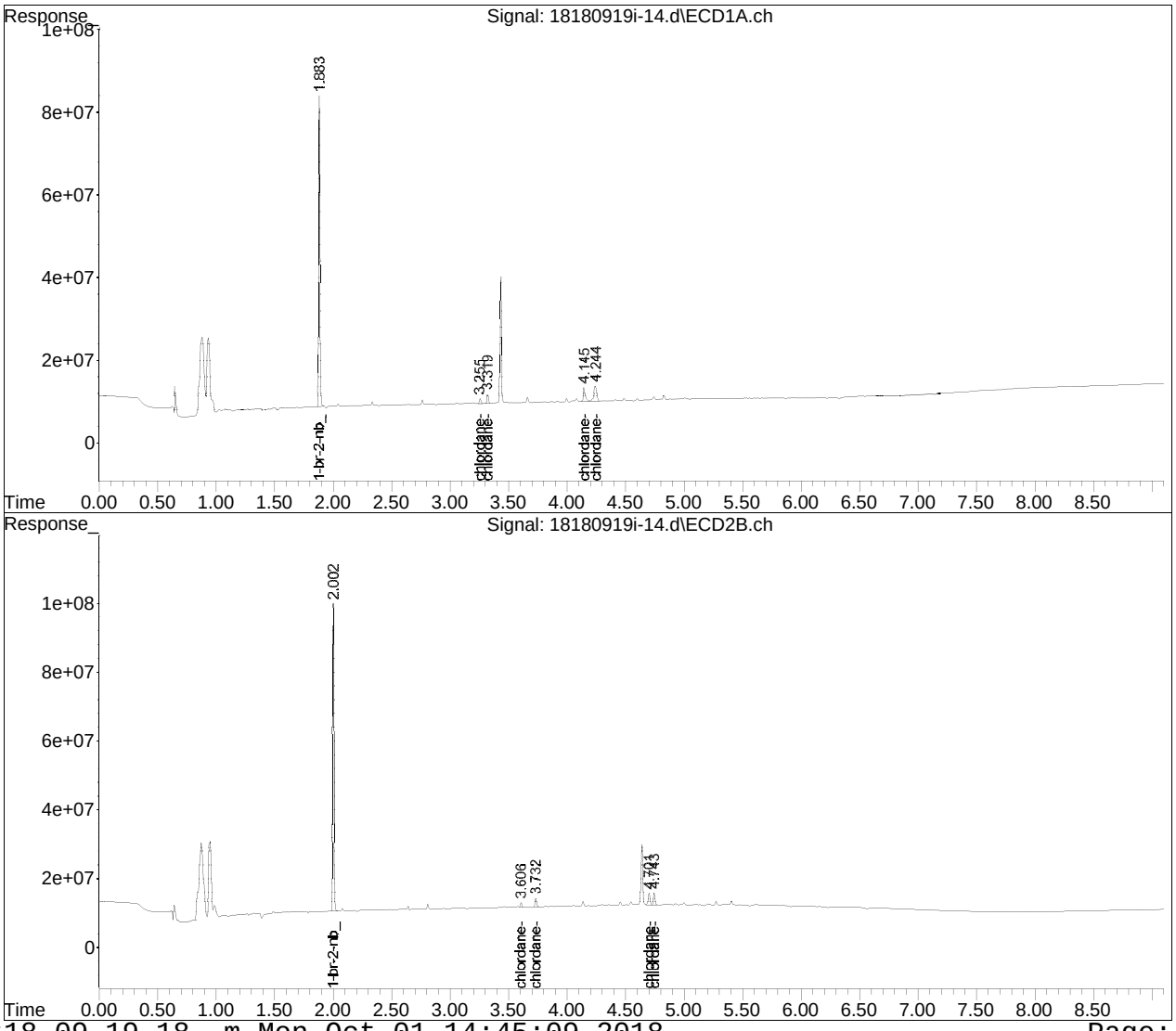
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-14.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Sep 2018 8:43 pm
Operator : PEST18:jw
Sample : il2chlor,42e,,pp8790
Misc : wg1162772,ical
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 17:00:15 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Thu Sep 27 16:59:21 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

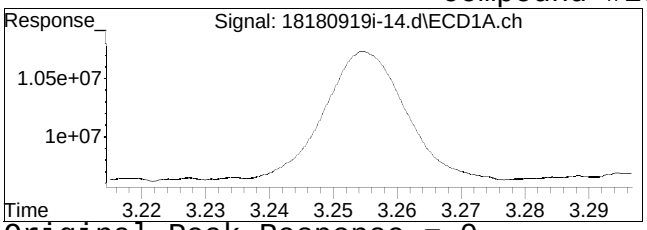


Manual Integration/Negative Proof Report

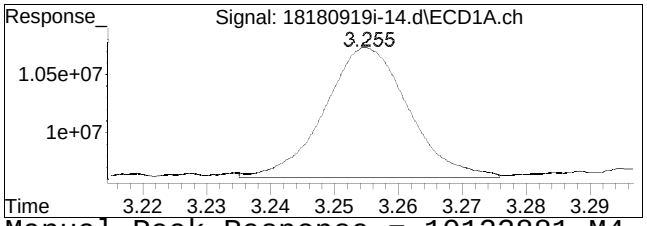
Data Path : I:\Pest18\180919ical\
Data File : 18180919i-14.d
Date Inj'd : 9/19/2018 8:43 pm
Sample : il2chlor,42e,,pp8790

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/27/2018 5:00 pm

Compound #29: chlordane-1



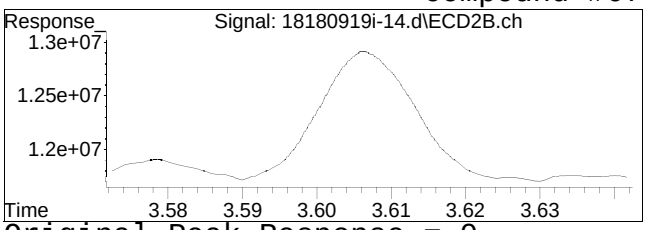
Original Peak Response = 0



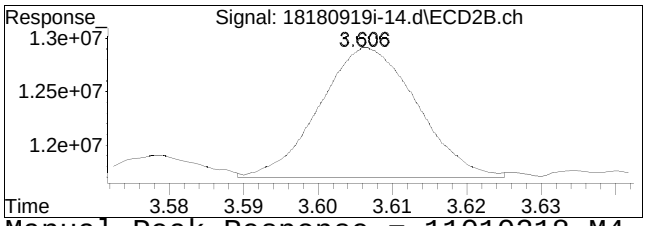
Manual Peak Response = 10123881 M4

M4 = Poor automated baseline construction.

Compound #67: chlordane-1 #2



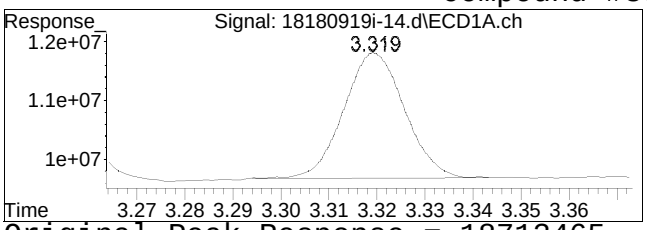
Original Peak Response = 0



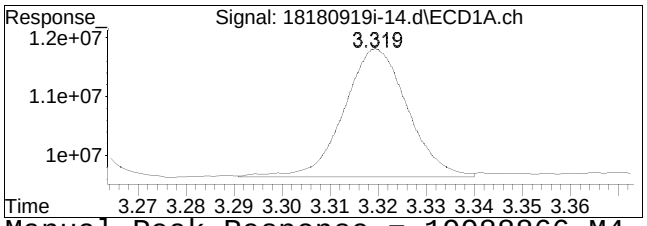
Manual Peak Response = 11010218 M4

M4 = Poor automated baseline construction.

Compound #30: chlordane-2



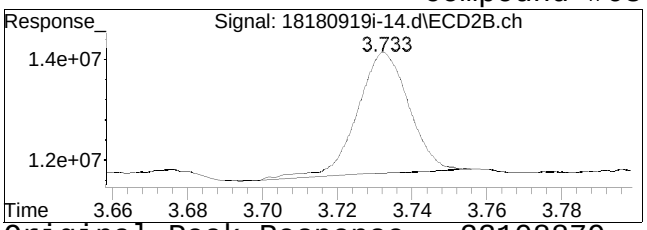
Original Peak Response = 18713465



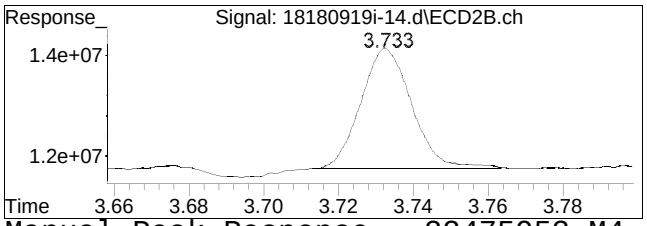
Manual Peak Response = 19988866 M4

M4 = Poor automated baseline construction.

Compound #68: chlordane-2 #2



Original Peak Response = 23108879



Manual Peak Response = 22475953 M4

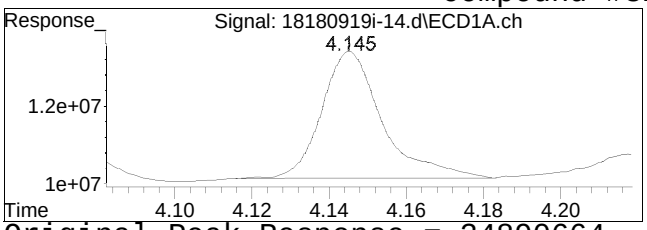
M4 = Poor automated baseline construction.

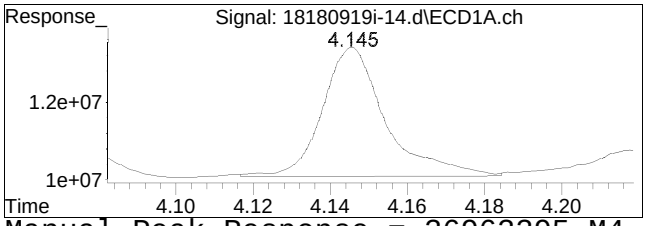
Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-14.d
Date Inj'd : 9/19/2018 8:43 pm
Sample : il2chlor,42e,,pp8790

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/27/2018 5:00 pm

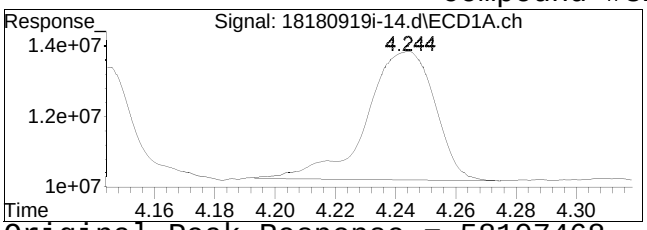
Compound #31: chlordane-3

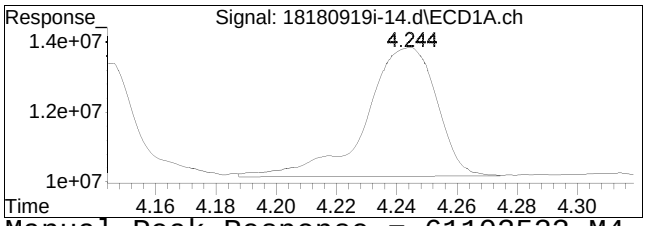




Original Peak Response = 34890664 Manual Peak Response = 36963395 M4
M4 = Poor automated baseline construction.

Compound #32: chlordane-4





Original Peak Response = 58107468 Manual Peak Response = 61103533 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-15.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Sep 2018 8:55 pm
Operator : PEST18:jw
Sample : il3chlor,42e,,pp8791
Misc : wg1162772,ical (Sig #1); ical (Sig #2)
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 17:00:24 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Thu Sep 27 16:59:21 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb...	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb...	1.884	2.003	522.3E6	621.4E6	25.000M4	25.000M4
33) i	1-br-2-nb...	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-T...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
27) s	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC...	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-15.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Sep 2018 8:55 pm
Operator : PEST18:jw
Sample : il3chlor,42e,,pp8791
Misc : wg1162772,ical (Sig #1); ical (Sig #2)
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 17:00:24 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Thu Sep 27 16:59:21 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)		Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)		Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
26)		Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
29)	l1	chlordane-1	3.255	3.608	43109884	51956423	56.115	56.016
30)	l1	chlordane-2	3.320	3.733	83649718	105.4E6	55.042	55.624M4
31)	l1	chlordane-3	4.145	4.701	166.9E6	165.5E6	54.431M4	53.459M4
32)	l1	chlordane-4	4.243	4.743	261.0E6	143.0E6	54.510M4	53.572M4
Sum		chlordane-1			554.7E6	465.9E6	N.D.	N.D.
Average		chlordane-1					55.025	54.668
34)	l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35)	l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36)	l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37)	l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum		toxaphene-1			0	0	N.D.	N.D.
Average		toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum		toxaphene-1			0	0	N.D.	N.D.
Average		toxaphene-1					0.000	0.000

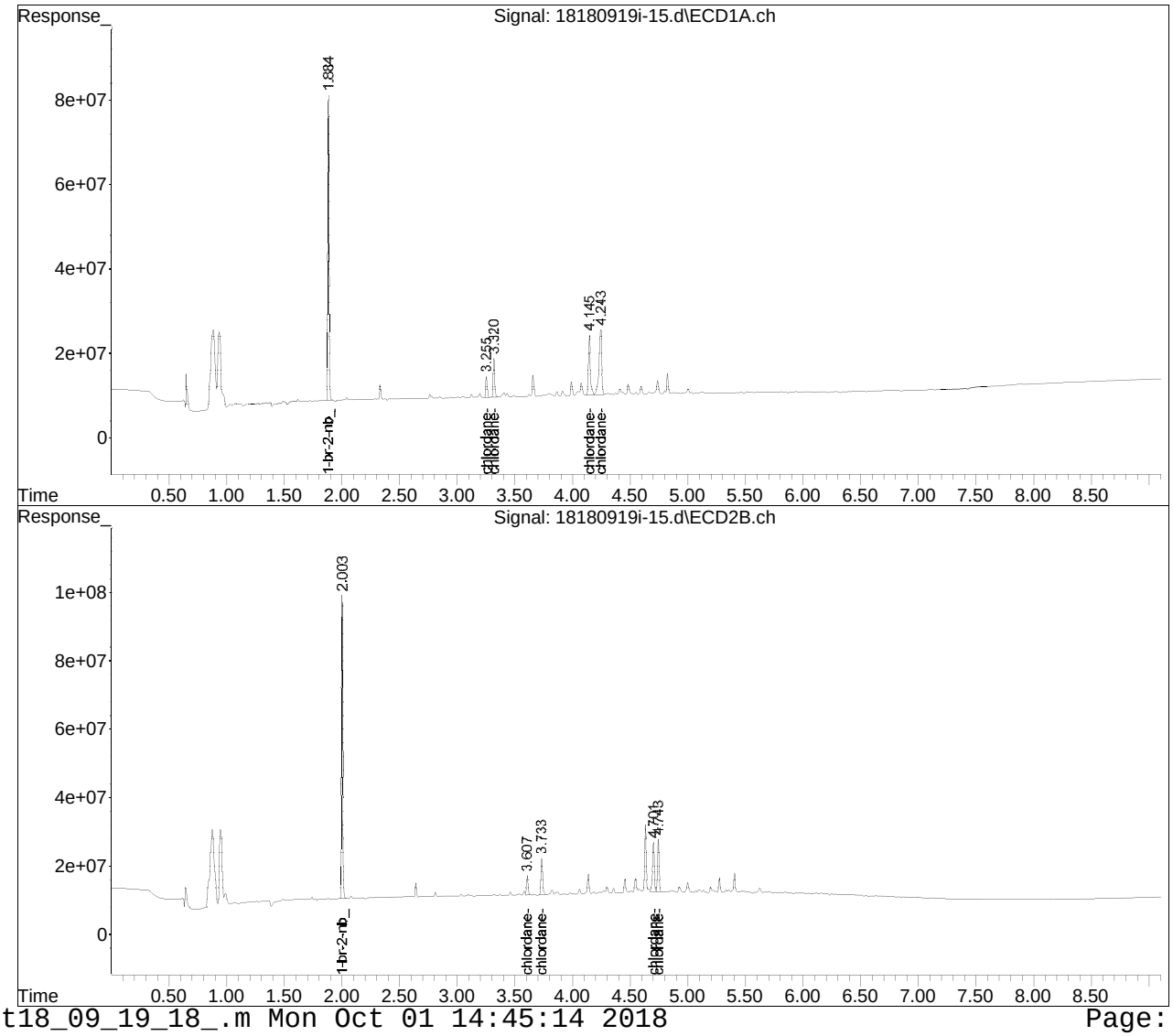
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-15.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Sep 2018 8:55 pm
Operator : PEST18:jw
Sample : il3chlor,42e,,pp8791
Misc : wg1162772,ical (Sig #1); ical (Sig #2)
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 17:00:24 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Thu Sep 27 16:59:21 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

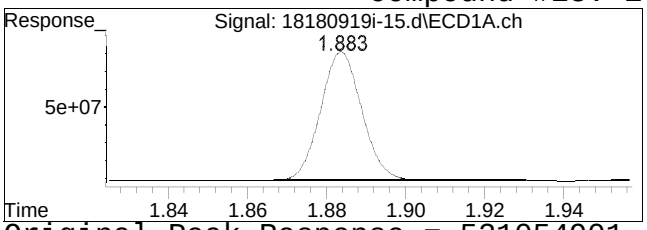


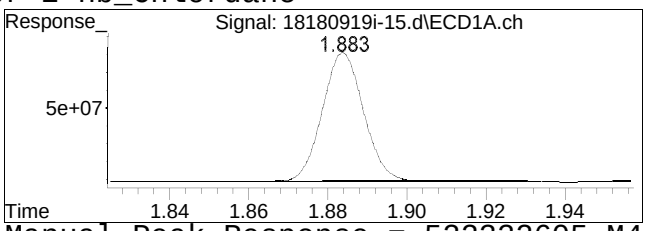
Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-15.d
Date Inj'd : 9/19/2018 8:55 pm
Sample : il3chlor,42e,,pp8791

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/27/2018 5:00 pm

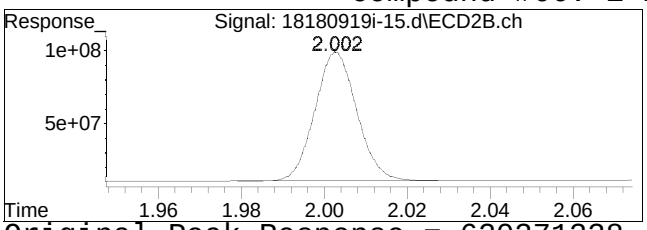
Compound #28: 1-br-2-nb_Chlordane

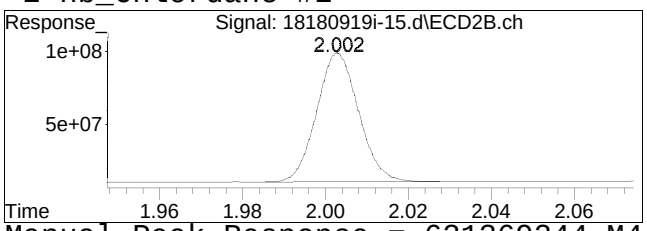




Original Peak Response = 521054901 Manual Peak Response = 522332605 M4
M4 = Poor automated baseline construction.

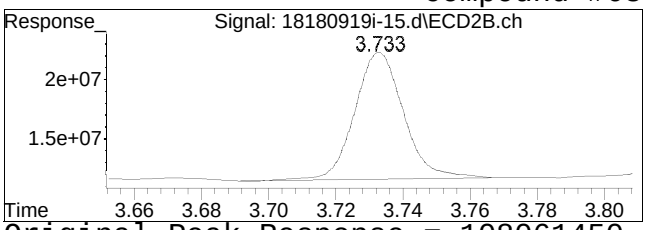
Compound #66: 1-br-2-nb_Chlordane #2

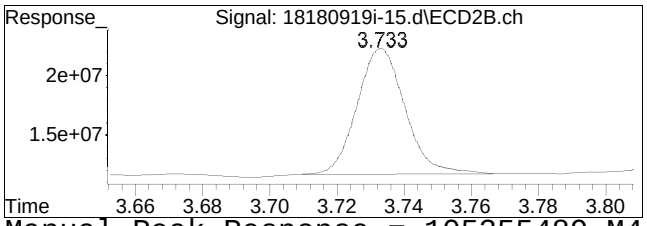




Original Peak Response = 620371338 Manual Peak Response = 621369244 M4
M4 = Poor automated baseline construction.

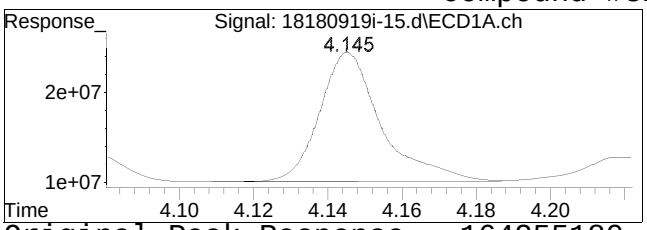
Compound #68: chlordane-2 #2

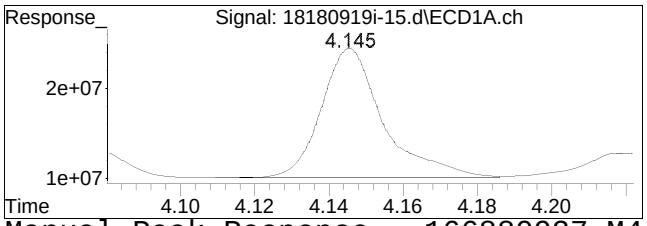




Original Peak Response = 108061450 Manual Peak Response = 105355489 M4
M4 = Poor automated baseline construction.

Compound #31: chlordane-3





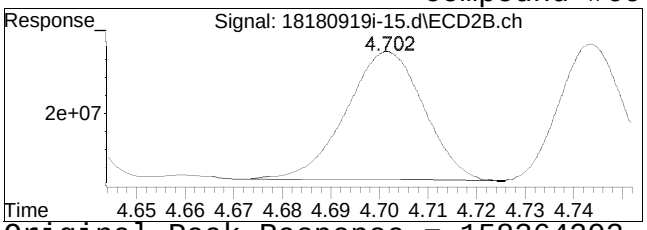
Original Peak Response = 164255180 Manual Peak Response = 166880927 M4
M4 = Poor automated baseline construction.

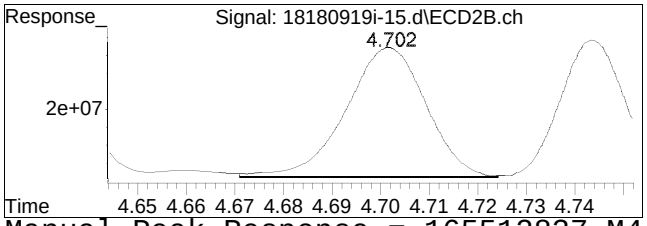
Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-15.d
Date Inj'd : 9/19/2018 8:55 pm
Sample : il3chlor,42e,,pp8791

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/27/2018 5:00 pm

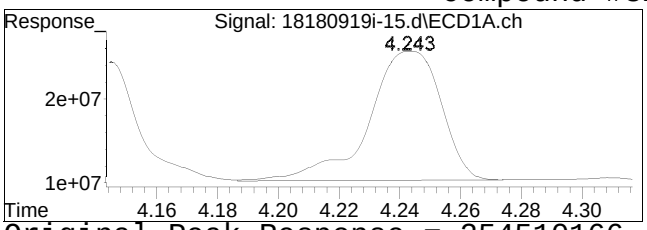
Compound #69: chlordane-3 #2

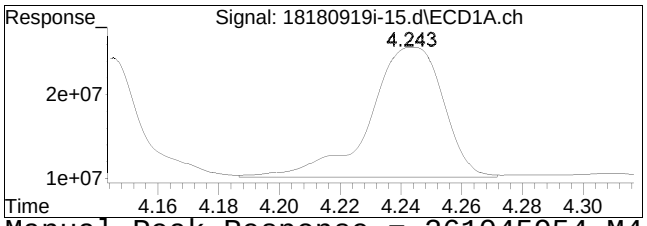




Original Peak Response = 158364203 Manual Peak Response = 165512837 M4
M4 = Poor automated baseline construction.

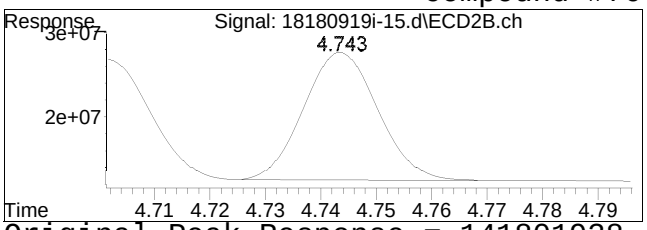
Compound #32: chlordane-4

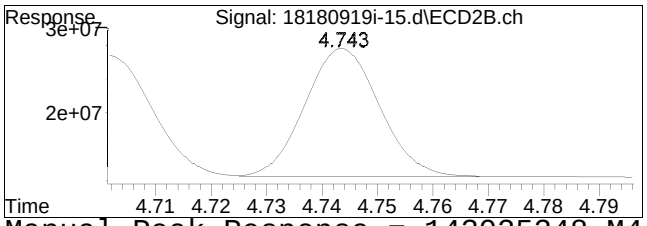




Original Peak Response = 254510166 Manual Peak Response = 261045954 M4
M4 = Poor automated baseline construction.

Compound #70: chlordane-4 #2





Original Peak Response = 141801938 Manual Peak Response = 143025348 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-16.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Sep 2018 9:08 pm
Operator : PEST18:jw
Sample : il4chlor,42e,,pp8792
Misc : wg1162772,ical (Sig #1); ical (Sig #2)
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 17:00:33 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Thu Sep 27 16:59:21 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb...	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb...	1.882	2.001	519.3E6	614.5E6	25.000M4	25.000M4
33) i	1-br-2-nb...	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-T...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
27) s	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC...	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-16.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Sep 2018 9:08 pm
Operator : PEST18:jw
Sample : il4chlor,42e,,pp8792
Misc : wg1162772,ical (Sig #1); ical (Sig #2)
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 17:00:33 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Thu Sep 27 16:59:21 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	3.255	3.607	79426884	95920068	103.984	104.566
30) l1	chlordane-2	3.320	3.733	156.9E6	195.4E6	103.804M4	104.326
31) l1	chlordane-3	4.145	4.702	308.2E6	304.8E6	101.118M4	99.556
32) l1	chlordane-4	4.243	4.744	473.5E6	268.3E6	99.448M4	101.600
Sum	chlordane-1			1018.0E6	864.4E6	N.D.	N.D.
Average	chlordane-1					102.089	102.512
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

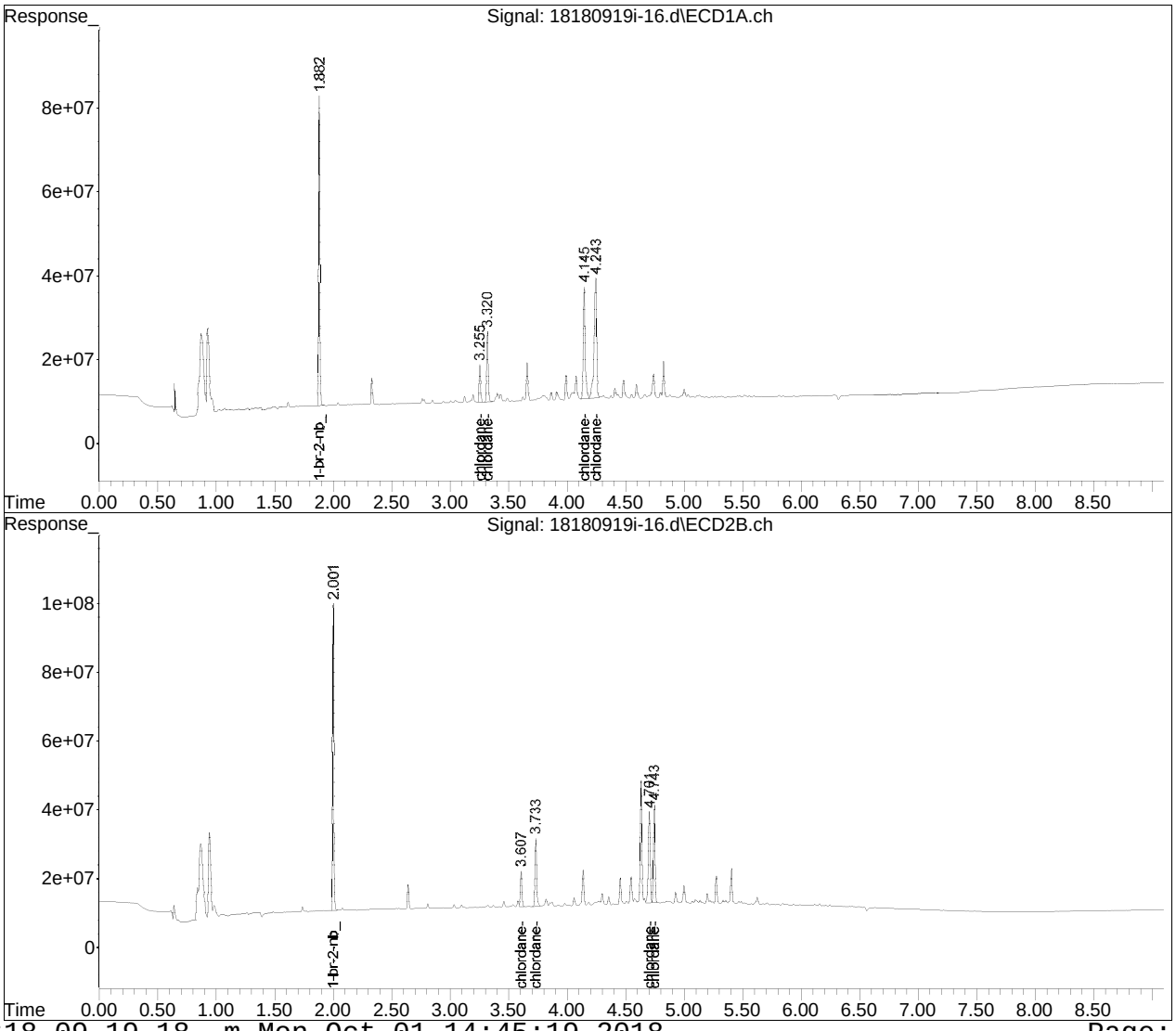
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-16.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Sep 2018 9:08 pm
Operator : PEST18:jw
Sample : il4chlor,42e,,pp8792
Misc : wg1162772,ical (Sig #1); ical (Sig #2)
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 17:00:33 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Thu Sep 27 16:59:21 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

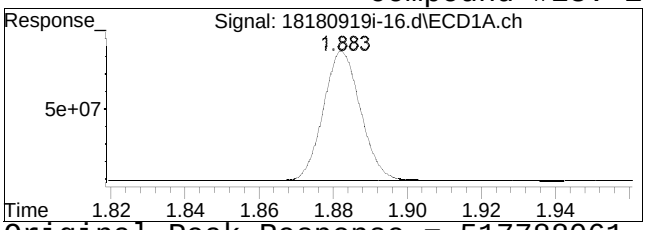


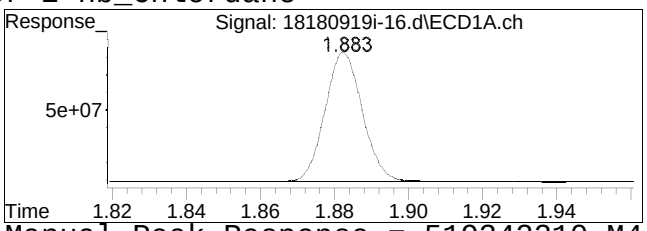
Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-16.d
Date Inj'd : 9/19/2018 9:08 pm
Sample : il4chlor,42e,,pp8792

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/27/2018 5:00 pm

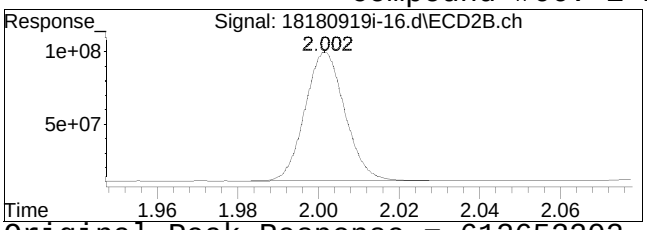
Compound #28: 1-br-2-nb_Chlordane

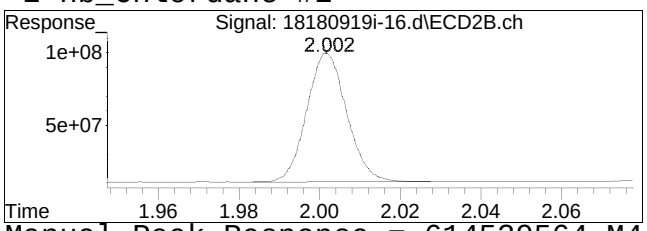




Original Peak Response = 517788061 Manual Peak Response = 519342210 M4
M4 = Poor automated baseline construction.

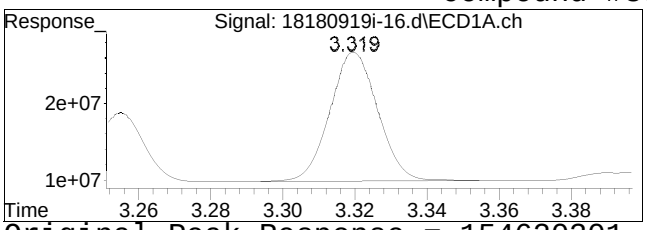
Compound #66: 1-br-2-nb_Chlordane #2

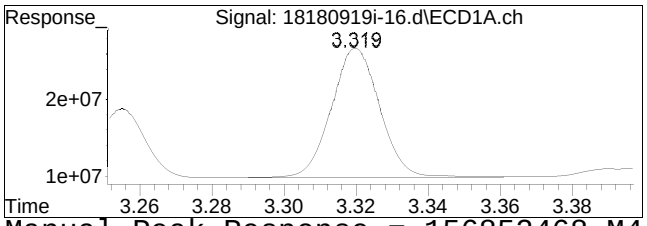




Original Peak Response = 612653202 Manual Peak Response = 614530564 M4
M4 = Poor automated baseline construction.

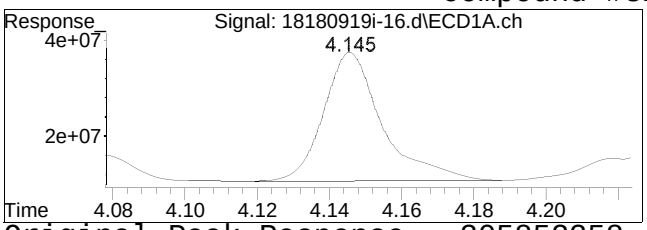
Compound #30: chlordane-2

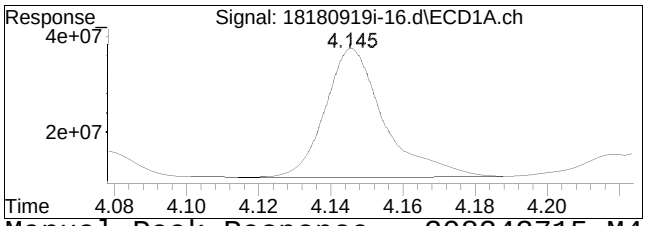




Original Peak Response = 154620301 Manual Peak Response = 156852468 M4
M4 = Poor automated baseline construction.

Compound #31: chlordane-3



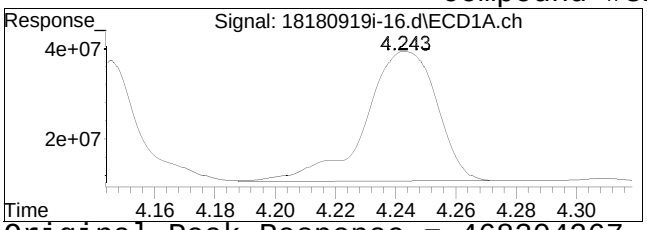


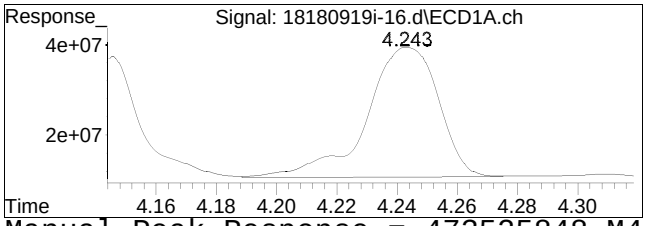
Original Peak Response = 305852358 Manual Peak Response = 308243715 M4
M4 = Poor automated baseline construction.

Manual Integration/Negative Proof Report

Data Path	: I:\Pest18\180919ical\	QMethod	: pest18_09_19_18_.m
Data File	: 18180919i-16.d	Operator	: PEST18:jw
Date Inj'd	: 9/19/2018 9:08 pm	Instrument	: Pest 18
Sample	: il4chlor,42e,,pp8792	Quant Date	: 9/27/2018 5:00 pm

Compound #32: chlordane-4





Original Peak Response = 468304267 Manual Peak Response = 473525848 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-17.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Sep 2018 9:21 pm
Operator : PEST18:jw
Sample : il5chlor,42e,,pp8793
Misc : wg1162772,ical (Sig #1); ical (Sig #2)
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 17:00:43 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Thu Sep 27 16:59:21 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb...	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb...	1.882	2.002	523.6E6	617.0E6	25.000M4	25.000M4
33) i	1-br-2-nb...	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-T...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
27) s	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC...	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-17.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Sep 2018 9:21 pm
Operator : PEST18:jw
Sample : il5chlor,42e,,pp8793
Misc : wg1162772,ical (Sig #1); ical (Sig #2)
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 17:00:43 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Thu Sep 27 16:59:21 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)		Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)		Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
26)		Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
29)	l1	chlordane-1	3.255	3.608	200.7E6	245.7E6	260.644	266.775
30)	l1	chlordane-2	3.320	3.733	396.9E6	507.6E6	260.506	269.912
31)	l1	chlordane-3	4.145	4.702	810.1E6	795.8E6	263.580M4	258.840
32)	l1	chlordane-4	4.244	4.744	1258.0E6	700.7E6	262.031M4	264.321
	Sum	chlordane-1			2665.7E6	2249.9E6	N.D.	N.D.
Average		chlordane-1					261.690	264.962
34)	l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35)	l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36)	l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37)	l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum	toxaphene-1			0	0	N.D.	N.D.
Average		toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

	Sum	toxaphene-1			0	0	N.D.	N.D.
Average		toxaphene-1					0.000	0.000

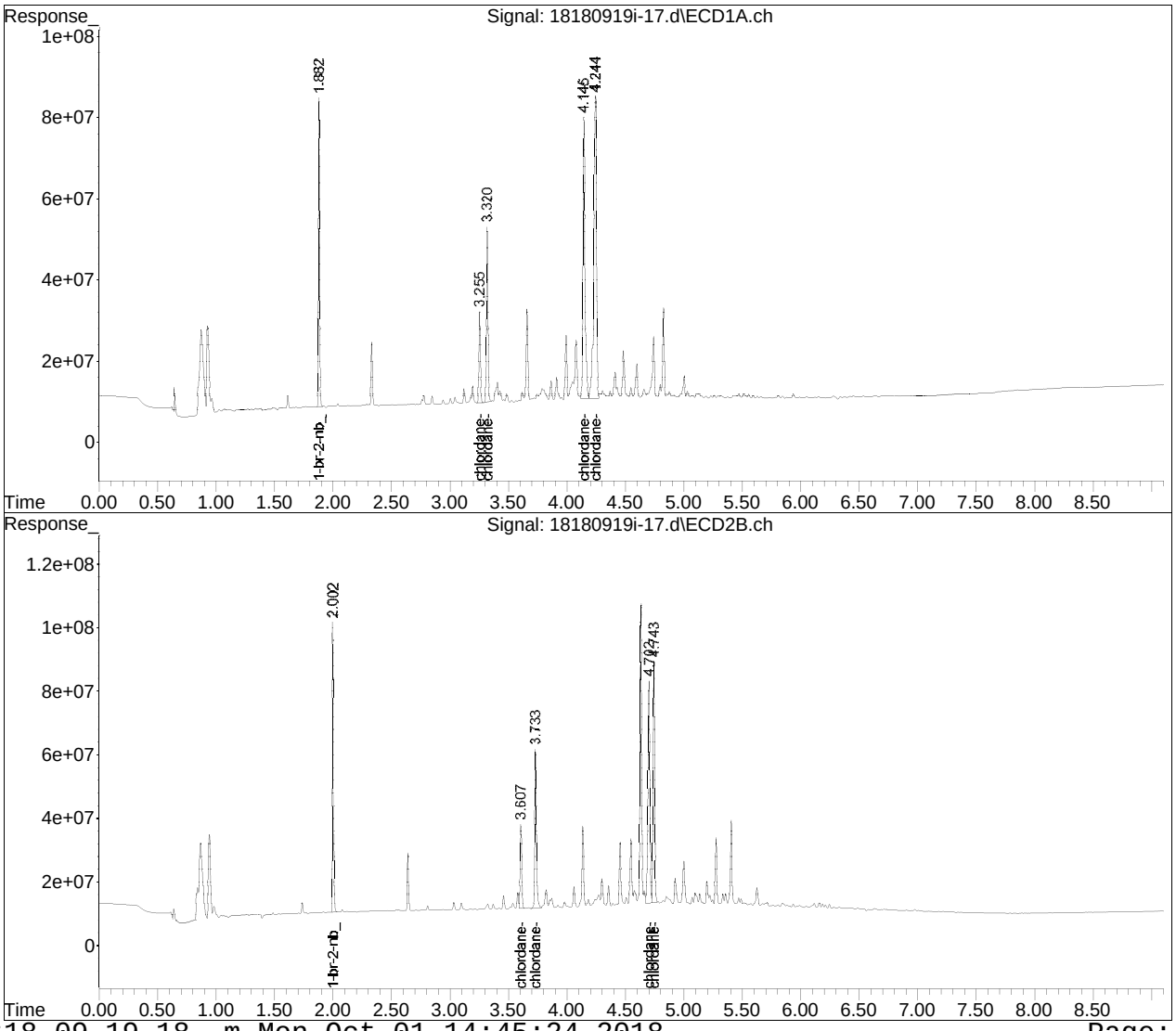
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-17.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Sep 2018 9:21 pm
Operator : PEST18:jw
Sample : il5chlor,42e,,pp8793
Misc : wg1162772,ical (Sig #1); ical (Sig #2)
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 17:00:43 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Thu Sep 27 16:59:21 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

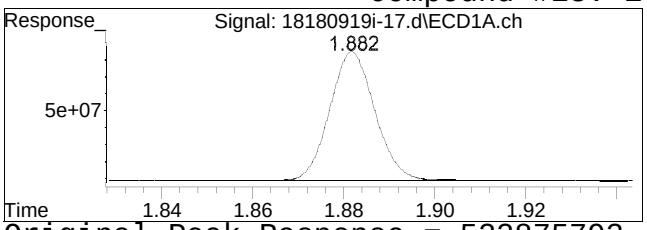


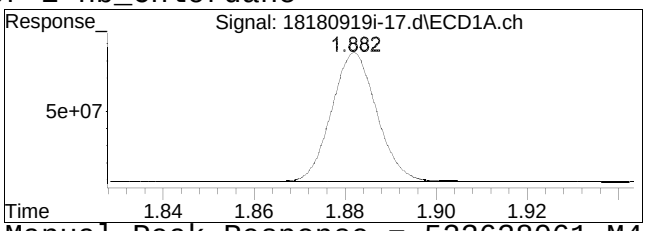
Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-17.d
Date Inj'd : 9/19/2018 9:21 pm
Sample : il5chlor,42e,,pp8793

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/27/2018 5:00 pm

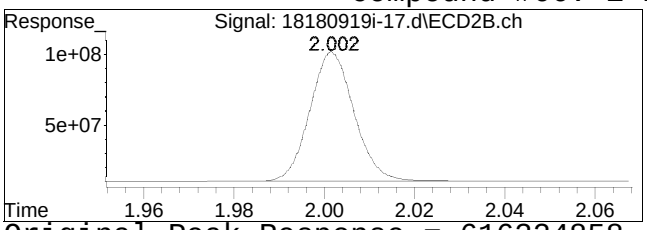
Compound #28: 1-br-2-nb_Chlordane

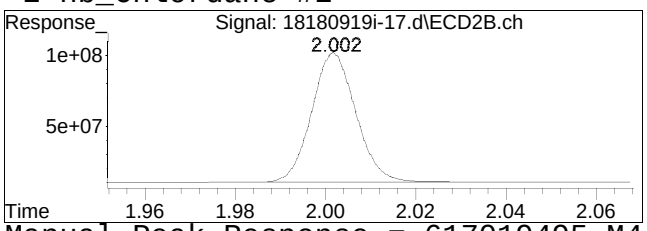




Original Peak Response = 522875793 Manual Peak Response = 523638061 M4
M4 = Poor automated baseline construction.

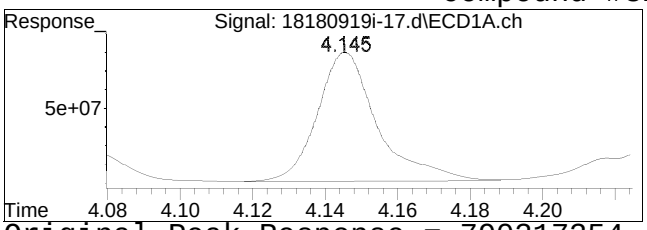
Compound #66: 1-br-2-nb_Chlordane #2

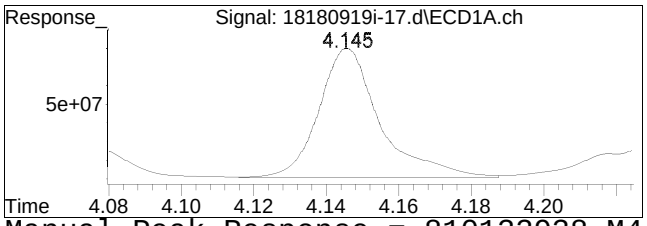




Original Peak Response = 616324858 Manual Peak Response = 617019495 M4
M4 = Poor automated baseline construction.

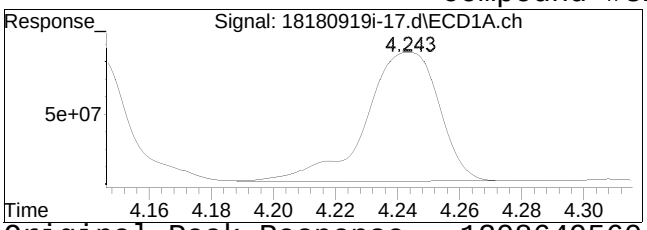
Compound #31: chlordane-3

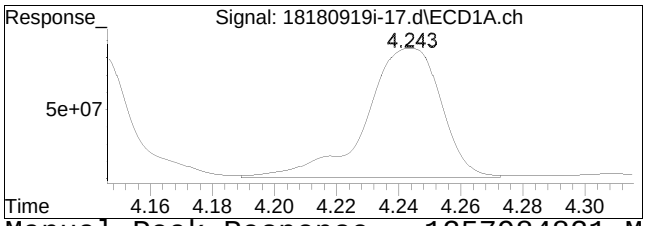




Original Peak Response = 790317354 Manual Peak Response = 810133938 M4
M4 = Poor automated baseline construction.

Compound #32: chlordane-4





Original Peak Response = 1208649560 Manual Peak Response = 1257984821 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-18.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Sep 2018 9:33 pm
Operator : PEST18:jw
Sample : il6chlor,42e,,pp8794
Misc : wg1162772,ical (Sig #1); ical (Sig #2)
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 17:00:53 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Thu Sep 27 16:59:21 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb...	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb...	1.882	2.001	495.4E6	588.3E6	25.000M4	25.000M4
33) i	1-br-2-nb...	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-T...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
27) s	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC...	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-18.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Sep 2018 9:33 pm
Operator : PEST18:jw
Sample : il6chlor,42e,,pp8794
Misc : wg1162772,ical (Sig #1); ical (Sig #2)
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 17:00:53 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Thu Sep 27 16:59:21 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	3.255	3.608	361.4E6	447.5E6	495.993	509.548
30) l1	chlordane-2	3.320	3.733	728.3E6	918.1E6	505.249	511.978
31) l1	chlordane-3	4.145	4.702	1466.7E6	1518.6E6	504.383	518.097
32) l1	chlordane-4	4.243	4.744	2264.1E6	1330.9E6	498.459	526.531
Sum	chlordane-1			4820.4E6	4215.0E6	N.D.	N.D.
Average	chlordane-1					501.021	516.538
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

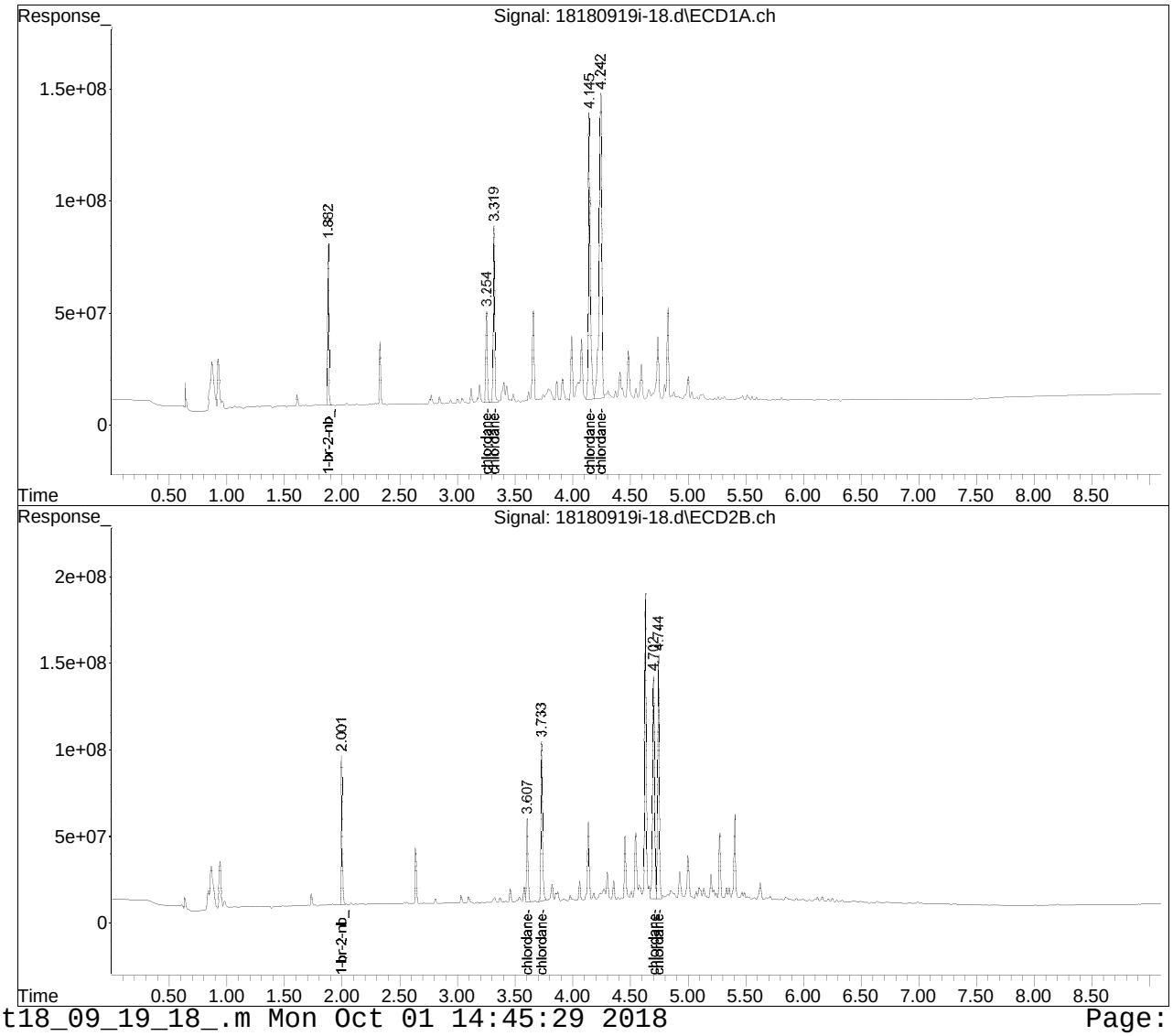
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-18.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Sep 2018 9:33 pm
Operator : PEST18:jw
Sample : il6chlor,42e,,pp8794
Misc : wg1162772,ical (Sig #1); ical (Sig #2)
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 17:00:53 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Thu Sep 27 16:59:21 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

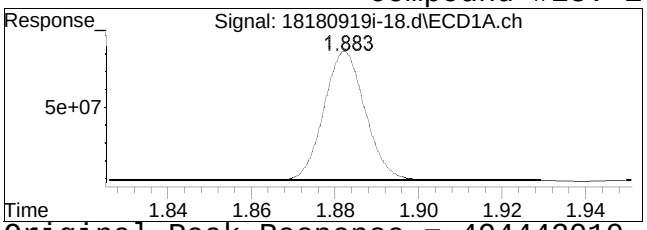


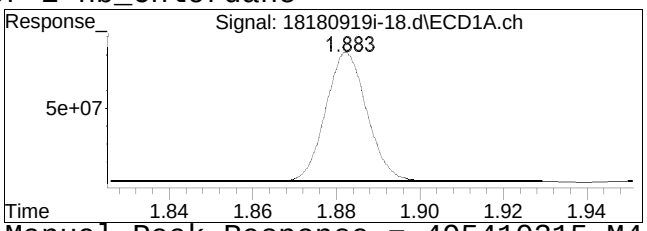
Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-18.d
Date Inj'd : 9/19/2018 9:33 pm
Sample : il6chlor,42e,,pp8794

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/27/2018 5:00 pm

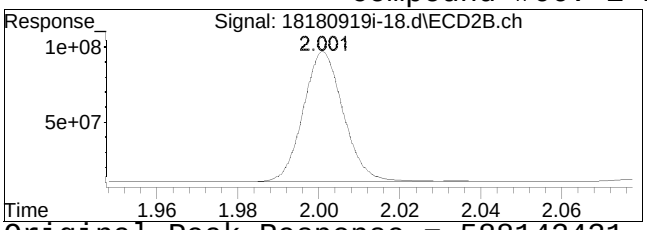
Compound #28: 1-br-2-nb_Chlordane

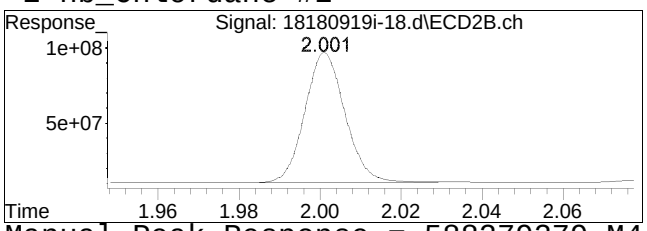




Original Peak Response = 494442010 Manual Peak Response = 495410315 M4
M4 = Poor automated baseline construction.

Compound #66: 1-br-2-nb_Chlordane #2





Original Peak Response = 588143431 Manual Peak Response = 588279279 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-19.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Sep 2018 9:46 pm
Operator : PEST18:jw
Sample : il7chlor,42e,,pp8795
Misc : wg1162772,ical (Sig #1); ical (Sig #2)
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 17:01:04 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Thu Sep 27 16:59:21 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb...	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb...	1.884	2.002	538.1E6	634.3E6	25.000	25.000
33) i	1-br-2-nb...	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-T...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
27) s	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC...	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-19.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Sep 2018 9:46 pm
Operator : PEST18:jw
Sample : il7chlor,42e,,pp8795
Misc : wg1162772,ical (Sig #1); ical (Sig #2)
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 17:01:04 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Thu Sep 27 16:59:21 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	3.256	3.608	683.3E6	835.2E6	863.389	882.039
30) l1	chlordane-2	3.320	3.733	1379.2E6	1735.8E6	880.914	897.707
31) l1	chlordane-3	4.146	4.702	2848.8E6	2892.1E6	901.960	915.024
32) l1	chlordane-4	4.244	4.744	4406.1E6	2533.8E6	893.079	929.667
Sum	chlordane-1			9317.4E6	7996.9E6	N.D.	N.D.
Average	chlordane-1					884.835	906.109
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

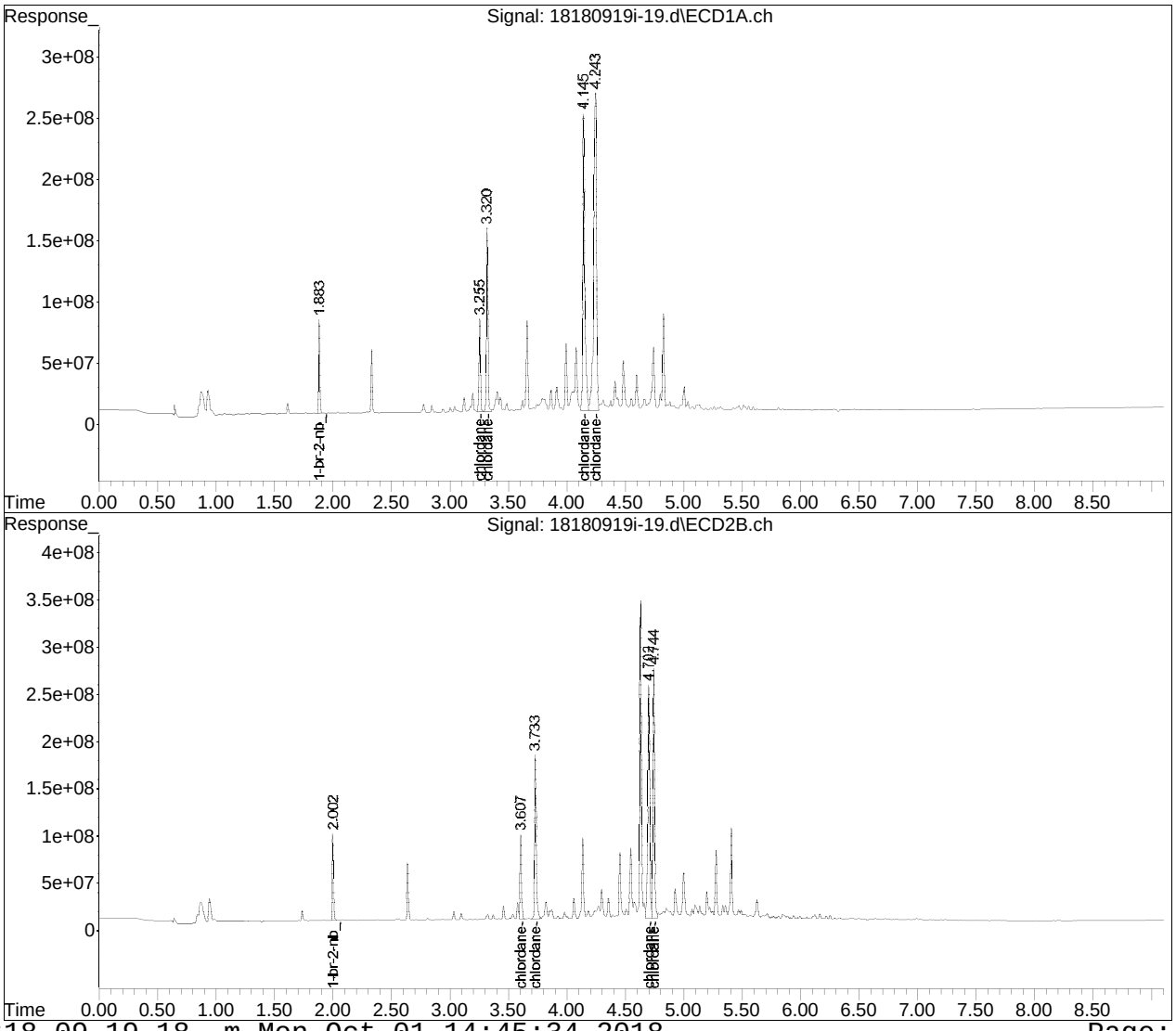
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-19.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Sep 2018 9:46 pm
Operator : PEST18:jw
Sample : il7chlor,42e,,pp8795
Misc : wg1162772,ical (Sig #1); ical (Sig #2)
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 17:01:04 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Thu Sep 27 16:59:21 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration/Negative Proof Report

Data Path	: I:\Pest18\180919ical\	QMethod	: pest18_09_19_18_.m
Data File	: 18180919i-19.d	Operator	: PEST18:jw
Date Inj'd	: 9/19/2018 9:46 pm	Instrument	: Pest 18
Sample	: il7chlor,42e,,pp8795	Quant Date	: 9/27/2018 5:00 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-20.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Sep 2018 9:59 pm
Operator : PEST18:jw
Sample : il8chlor,42e,,pp8796
Misc : wg1162772,ical (Sig #1); ical (Sig #2)
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 17:01:15 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Thu Sep 27 16:59:21 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb...	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb...	1.882	2.003	527.9E6	634.7E6	25.000M4	25.000M4
33) i	1-br-2-nb...	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-T...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
27) s	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC...	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-20.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Sep 2018 9:59 pm
Operator : PEST18:jw
Sample : il8chlor,42e,,pp8796
Misc : wg1162772,ical (Sig #1); ical (Sig #2)
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 17:01:15 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Thu Sep 27 16:59:21 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)		Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)		Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
26)		Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
29)	l1	chlordane-1	3.253	3.609	1631.8E6	2040.1E6	2101.851	2153.201
30)	l1	chlordane-2	3.318	3.735	3251.7E6	4175.2E6	2117.224	2157.906
31)	l1	chlordane-3	4.144	4.703	6956.9E6	7120.0E6	2245.342	2251.221
32)	l1	chlordane-4	4.242	4.745	10743.5E6	6173.6E6	2219.901	2263.656
	Sum	chlordane-1			22583.9E6	19508.9E6	N.D.	N.D.
Average		chlordane-1					2171.080	2206.496
34)	l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35)	l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36)	l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37)	l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum	toxaphene-1			0	0	N.D.	N.D.
Average		toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

	Sum	toxaphene-1			0	0	N.D.	N.D.
Average		toxaphene-1					0.000	0.000

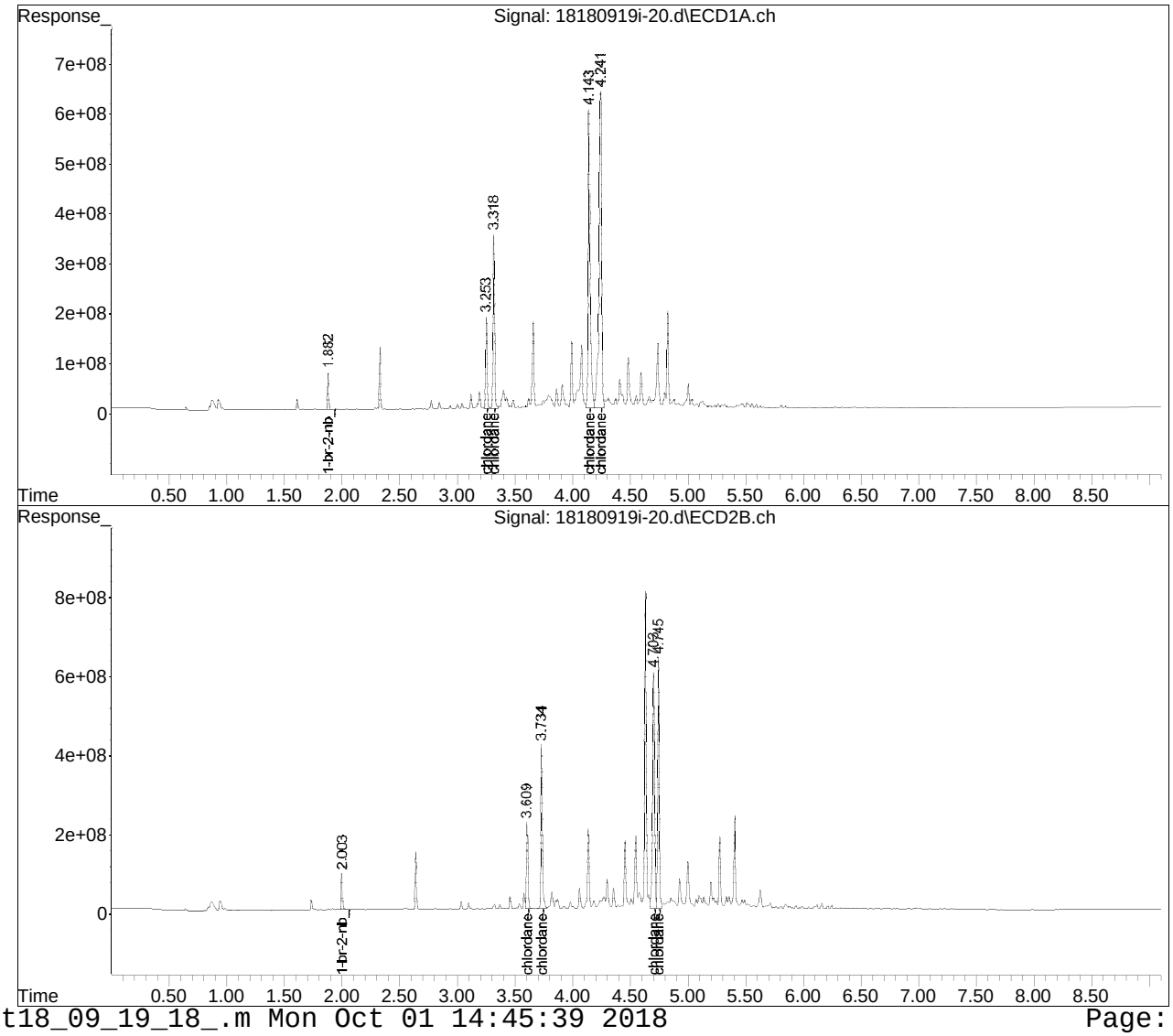
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-20.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Sep 2018 9:59 pm
Operator : PEST18:jw
Sample : il8chlor,42e,,pp8796
Misc : wg1162772,ical (Sig #1); ical (Sig #2)
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 17:01:15 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Thu Sep 27 16:59:21 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

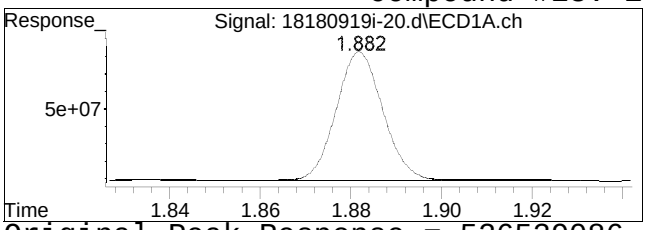


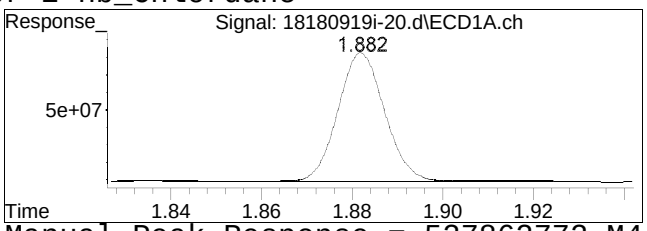
Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-20.d
Date Inj'd : 9/19/2018 9:59 pm
Sample : il8chlor,42e,,pp8796

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/27/2018 5:01 pm

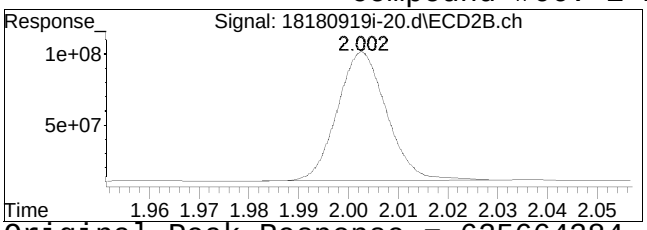
Compound #28: 1-br-2-nb_Chlordane

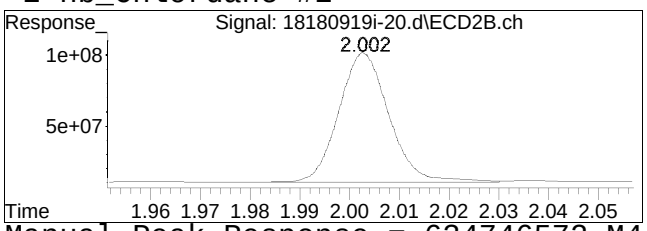




Original Peak Response = 526539086 Manual Peak Response = 527862772 M4
M4 = Poor automated baseline construction.

Compound #66: 1-br-2-nb_Chlordane #2





Original Peak Response = 625664384 Manual Peak Response = 634746572 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-21.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Sep 2018 10:11 pm
Operator : PEST18:jw
Sample : il9chlor,42e,,pp8797
Misc : wg1162772,ical (Sig #1); ical (Sig #2)
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 17:01:26 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Thu Sep 27 16:59:21 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb...	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb...	1.884	2.003	557.1E6	667.6E6	25.000M4	25.000M4
33) i	1-br-2-nb...	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-T...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
27) s	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC...	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-21.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Sep 2018 10:11 pm
Operator : PEST18:jw
Sample : il9chlor,42e,,pp8797
Misc : wg1162772,ical (Sig #1); ical (Sig #2)
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 17:01:26 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Thu Sep 27 16:59:21 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)		Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)		Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
26)		Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
29)	l1	chlordane-1	3.255	3.609	3312.7E6	4124.0E6	4042.795	4138.413
30)	l1	chlordane-2	3.319	3.735	6424.4E6	8173.8E6	3963.317	4016.729
31)	l1	chlordane-3	4.145	4.703	14000.6E6	14183.7E6	4281.395	4264.006
32)	l1	chlordane-4	4.244	4.745	21443.9E6	12029.8E6	4198.198	4193.928
		Sum chlordane-1			45181.5E6	38511.4E6	N.D.	N.D.
		Average chlordane-1					4121.426	4153.269
34)	l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35)	l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36)	l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37)	l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
		Sum toxaphene-1			0	0	N.D.	N.D.
		Average toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

		Sum toxaphene-1			0	0	N.D.	N.D.
		Average toxaphene-1					0.000	0.000

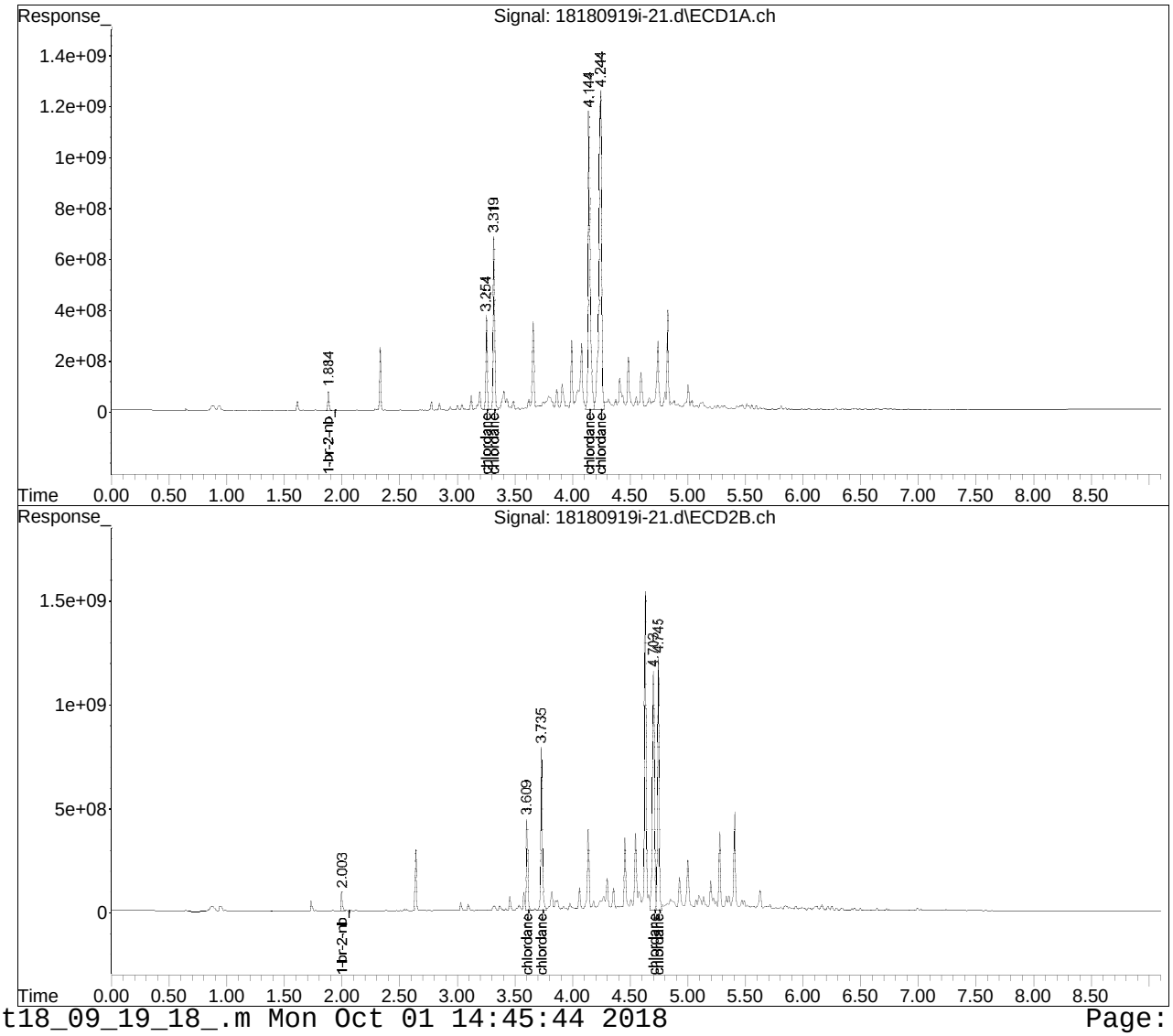
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-21.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Sep 2018 10:11 pm
Operator : PEST18:jw
Sample : il9chlor,42e,,pp8797
Misc : wg1162772,ical (Sig #1); ical (Sig #2)
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 17:01:26 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Thu Sep 27 16:59:21 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

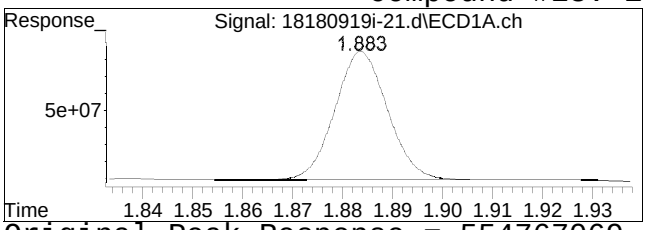


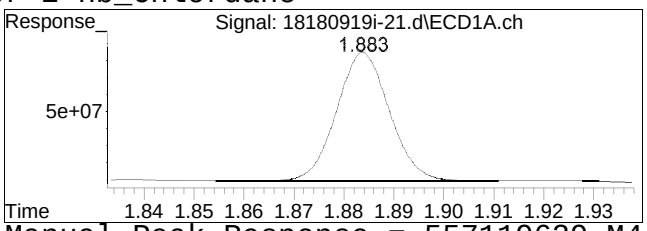
Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-21.d
Date Inj'd : 9/19/2018 10:11 pm
Sample : il9chlor,42e,,pp8797

QMethod : pest18_09_19_18_.m
Operator : PEST18:jw
Instrument : Pest 18
Quant Date : 9/27/2018 5:01 pm

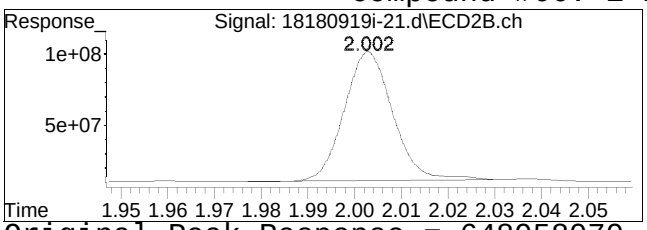
Compound #28: 1-br-2-nb_Chlordane

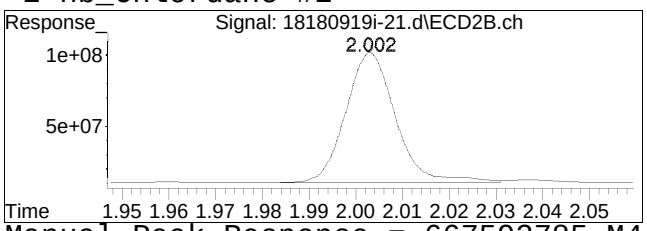




Original Peak Response = 554767069 Manual Peak Response = 557119629 M4
M4 = Poor automated baseline construction.

Compound #66: 1-br-2-nb_Chlordane #2





Original Peak Response = 648958070 Manual Peak Response = 667592785 M4
M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-22.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 19 Sep 2018 10:24 pm
Operator : PEST18:jw
Sample   : cicvchlor,42e,,pp8878
Misc   : wg1162772,ical (Sig #1); ical (Sig #2)
ALS Vial : 22   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 17:03:27 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Thu Sep 27 16:59:21 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	25.000	25.000	0.0	97	0.00
29	l1	chlordane-1	1000.000	983.431	1.7	93	0.00
30	l1	chlordane-2	1000.000	781.437	21.9#	73	0.00
31	l1	chlordane-3	1000.000	986.777	1.3	94	0.00
32	l1	chlordane-4	1000.000	1081.349	-8.1	103	0.00

Signal #2

28	i	1-br-2-nb_Chlordane	25.000	25.000	0.0	96	0.00
29	l1	chlordane-1	1000.000	987.048	1.3	93	0.00
30	l1	chlordane-2	1000.000	806.878	19.3	74	0.00
31	l1	chlordane-3	1000.000	1252.723	-25.3#	117	0.00
32	l1	chlordane-4	1000.000	983.930	1.6	91	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	25.000	25.000	0.0	0	-1.88#
2	s	2,4,5,6-Tetrachloro-m-xylen	10.000	0.000	100.0#	0	-2.37#
3		Hexachlorobenzene	10.000	0.000	100.0#	0	-2.62#
4		alpha-BHC	10.000	0.000	100.0#	0	-2.74#
5		gamma-BHC (lindane)	10.000	0.000	100.0#	0	-2.96#
6		beta-BHC	10.000	0.000	100.0#	0	-3.02#
7		delta-BHC	10.000	0.000	100.0#	0	-3.16#
8		Heptachlor	10.000	0.000	100.0#	0	-3.32#
9		Aldrin	10.000	0.000	100.0#	0	-3.56#
10		Alachlor	10.000	0.000	100.0#	0	-3.66#
11		Chlorpyrifos	10.000	0.000	100.0#	0	-3.75#
12		Heptachlor Epoxide	10.000	0.000	100.0#	0	-4.04#
13		gamma-Chlordane (trans)	10.000	0.000	100.0#	0	-4.14#

Evaluate Continuing Calibration Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-22.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 19 Sep 2018 10:24 pm
Operator : PEST18:jw
Sample   : cicvchlor,42e,,pp8878
Misc   : wg1162772,ical (Sig #1); ical (Sig #2)
ALS Vial : 22   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 17:03:27 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Thu Sep 27 16:59:21 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
14		alpha-Chlordane (cis)	10.000	0.000	100.0#	0	-4.25#
15		4,4'-DDE	10.000	0.000	100.0#	0	-4.31#
16		Endosulfan I	10.000	0.000	100.0#	0	-4.35#
17		Dieldrin	10.000	0.000	100.0#	0	-4.54#
18		Endrin	10.000	0.000	100.0#	0	-4.71#
19		4,4'-DDD	10.000	0.000	100.0#	0	-4.77#
20		Endosulfan II	10.000	0.000	100.0#	0	-4.87#
21		4,4'-DDT	10.000	0.000	100.0#	0	-4.97#
22		Endrin Aldehyde	10.000	0.000	100.0#	0	-5.17#
23		Methoxychlor	10.000	0.000	100.0#	0	-5.32#
24		Mirex	10.000	0.000	100.0#	0	-5.41#
25		Endosulfan Sulfate	10.000	0.000	100.0#	0	-5.48#
26		Endrin Ketone	10.000	0.000	100.0#	0	-5.67#
27	s	Decachlorobiphenyl	10.000	0.000	100.0#	0	-6.34#
33	i	1-br-2-nb_Toxaphene	25.000	25.000	0.0	0	-1.88#
34	l2	toxaphene-1	2000.000	0.000	100.0#	0	-4.86#
35	l2	toxaphene-2	2000.000	0.000	100.0#	0	-4.95#
36	l2	toxaphene-3	2000.000	0.000	100.0#	0	-5.11#
37	l2	toxaphene-5	2000.000	0.000	100.0#	0	-5.41#

Signal #2

1	i	1-br-2-nb_Pesticides	25.000	25.000	0.0	0	-2.00#
2	s	2,4,5,6-Tetrachloro-m-xyl	10.000	0.000	100.0#	0	-2.61#
3		Hexachlorobenzene	10.000	0.000	100.0#	0	-2.97#
4		alpha-BHC	10.000	0.000	100.0#	0	-3.07#
5		gamma-BHC (lindane)	10.000	0.000	100.0#	0	-3.36#
6		beta-BHC	10.000	0.000	100.0#	0	-3.42#
7		delta-BHC	10.000	0.000	100.0#	0	-3.68#

Evaluate Continuing Calibration Report

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-22.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 19 Sep 2018 10:24 pm
Operator : PEST18:jw
Sample   : cicvchlor,42e,,pp8878
Misc   : wg1162772,ical (Sig #1); ical (Sig #2)
ALS Vial : 22   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 17:03:27 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Thu Sep 27 16:59:21 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
8		Heptachlor	10.000	0.000	100.0#	0	-3.73#
9		Aldrin	10.000	0.000	100.0#	0	-4.02#
10		Alachlor	10.000	0.000	100.0#	0	-3.91#
11		Chlorpyrifos	10.000	0.000	100.0#	0	-4.19#
12		Heptachlor Epoxide	10.000	0.000	100.0#	0	-4.48#
13		gamma-Chlordane (trans)	10.000	0.000	100.0#	0	-4.63#
14		alpha-Chlordane (cis)	10.000	0.000	100.0#	0	-4.74#
15		4,4'-DDE	10.000	0.000	100.0#	0	-4.86#
16		Endosulfan I	10.000	0.000	100.0#	0	-4.79#
17		Dieldrin	10.000	0.000	100.0#	0	-5.00#
18		Endrin	10.000	0.000	100.0#	0	-5.22#
19		4,4'-DDD	10.000	0.000	100.0#	0	-5.29#
20		Endosulfan II	10.000	0.000	100.0#	0	-5.37#
21		4,4'-DDT	10.000	0.000	100.0#	0	-5.51#
22		Endrin Aldehyde	10.000	0.000	100.0#	0	-5.61#
23		Methoxychlor	10.000	0.000	100.0#	0	-5.97#
24		Mirex	10.000	0.000	100.0#	0	-6.13#
25		Endosulfan Sulfate	10.000	0.000	100.0#	0	-5.79#
26		Endrin Ketone	10.000	0.000	100.0#	0	-6.16#
27	s	Decachlorobiphenyl	10.000	0.000	100.0#	0	-6.95#
33	i	1-br-2-nb_Toxaphene	25.000	25.000	0.0	0	-2.00#
34	l2	toxaphene-1	2000.000	0.000	100.0#	0	-5.34#
35	l2	toxaphene-2	2000.000	0.000	100.0#	0	-5.37#
36	l2	toxaphene-3	2000.000	0.000	100.0#	0	-5.43#
37	l2	toxaphene-5	2000.000	0.000	100.0#	0	-5.97#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-22.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Sep 2018 10:24 pm
Operator : PEST18:jw
Sample : cicvchlor,42e,,pp8878
Misc : wg1162772,ical (Sig #1); ical (Sig #2)
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 17:03:27 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Thu Sep 27 16:59:21 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb...	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb...	1.883	2.003	521.4E6	611.5E6	25.000	25.000
33) i	1-br-2-nb...	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-T...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
27) s	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC...	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-22.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Sep 2018 10:24 pm
Operator : PEST18:jw
Sample : cicvchlor,42e,,pp8878
Misc : wg1162772,ical (Sig #1); ical (Sig #2)
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 17:03:27 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Thu Sep 27 16:59:21 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	3.254	3.610	637.4E6	779.0E6	983.431	987.048
30) l1	chlordane-2	3.318	3.736	1000.2E6	1288.1E6	781.437	806.878
31) l1	chlordane-3	4.143	4.704	2687.9E6	3394.8E6	986.777	1252.723 #
32) l1	chlordane-4	4.238	4.746	4528.9E6	2295.6E6	1081.349	983.930
Sum	chlordane-1			8854.4E6	7757.5E6	N.D.	N.D.
Average	chlordane-1					958.248	1007.645
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

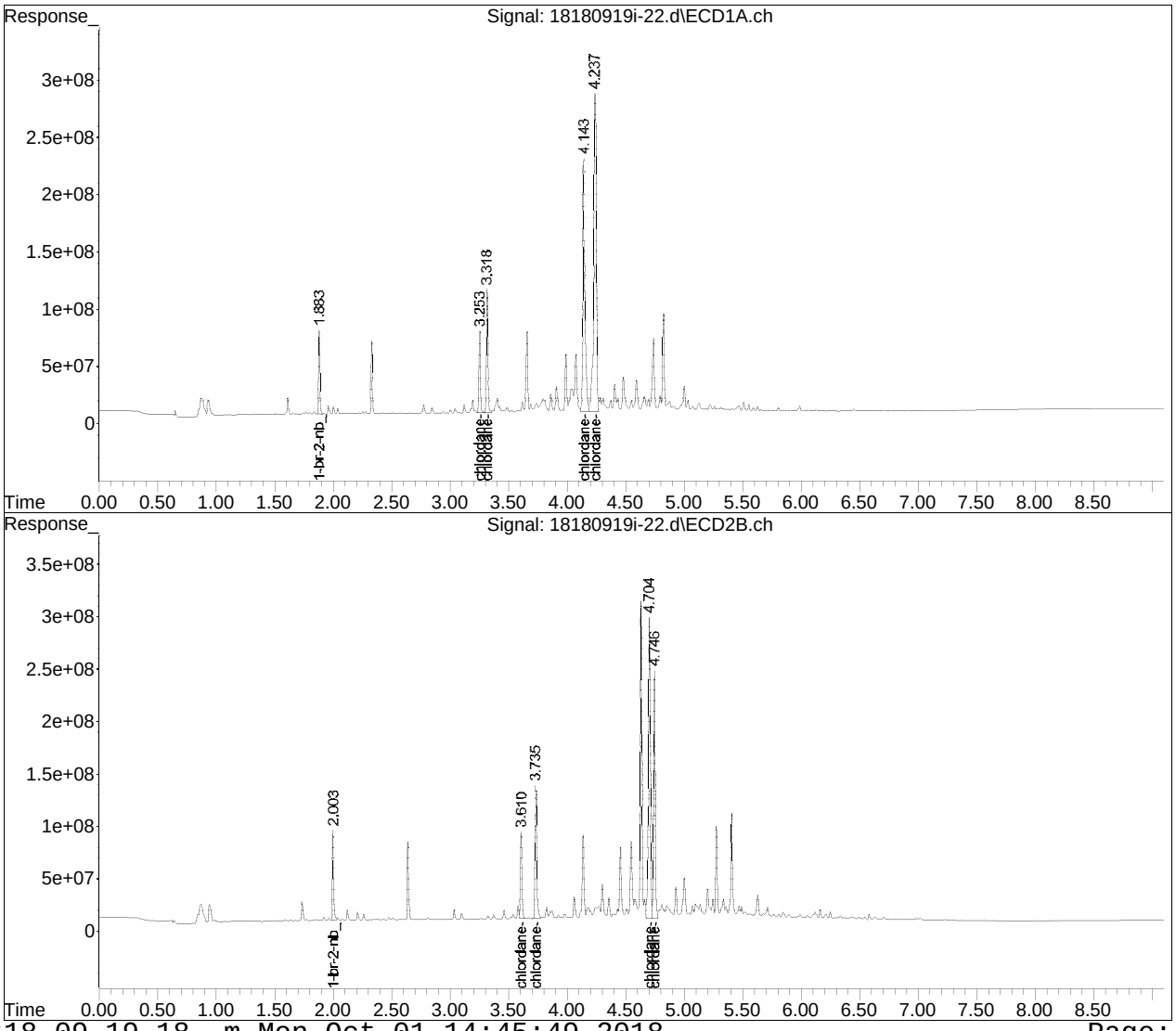
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest18\180919ical\
Data File : 18180919i-22.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 19 Sep 2018 10:24 pm
Operator : PEST18:jw
Sample : cicvchlor,42e,,pp8878
Misc : wg1162772,ical (Sig #1); ical (Sig #2)
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 27 17:03:27 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Thu Sep 27 16:59:21 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration/Negative Proof Report

Data Path	: I:\Pest18\180919ical\	QMethod	: pest18_09_19_18_.m
Data File	: 18180919i-22.d	Operator	: PEST18:jw
Date Inj'd	: 9/19/2018 10:24 pm	Instrument	: Pest 18
Sample	: cicvchlor,42e,,pp8878	Quant Date	: 9/27/2018 5:03 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest18\180919ical\
Data File : 18180927i-02.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Sep 2018 6:13 pm
Operator : PEST18:jw
Sample : pem18180919ical02,42e,,deg pp8910 (Sig #1); deg pp8910 (Sig #2)
Misc : wg1162772,ical
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 28 15:49:00 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Thu Sep 27 17:04:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : 4_DEG - deg check

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb...	1.886	2.005	519.8E6	607.1E6	25.000	25.000
	System Monitoring Compounds						
	Target Compounds						
15)	4,4'-DDE	4.315	4.867	5657667	7061449	N.D. M2	N.D. M2
18)	Endrin	4.710	5.228	1245.8E6	1467.6E6	49.556	51.377
19)	4,4'-DDD	4.767	5.292	5449749	6458736	N.D. M2	N.D. M2
21)	4,4'-DDT	4.973	5.513	2220.6E6	2511.5E6	93.544	92.920
22)	Endrin Al...	0.000	0.000	0	0	N.D.	N.D.
26)	Endrin Ke...	5.668	6.172	12244924	17095906	N.D.	0.147
	Sum chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
	Sum toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

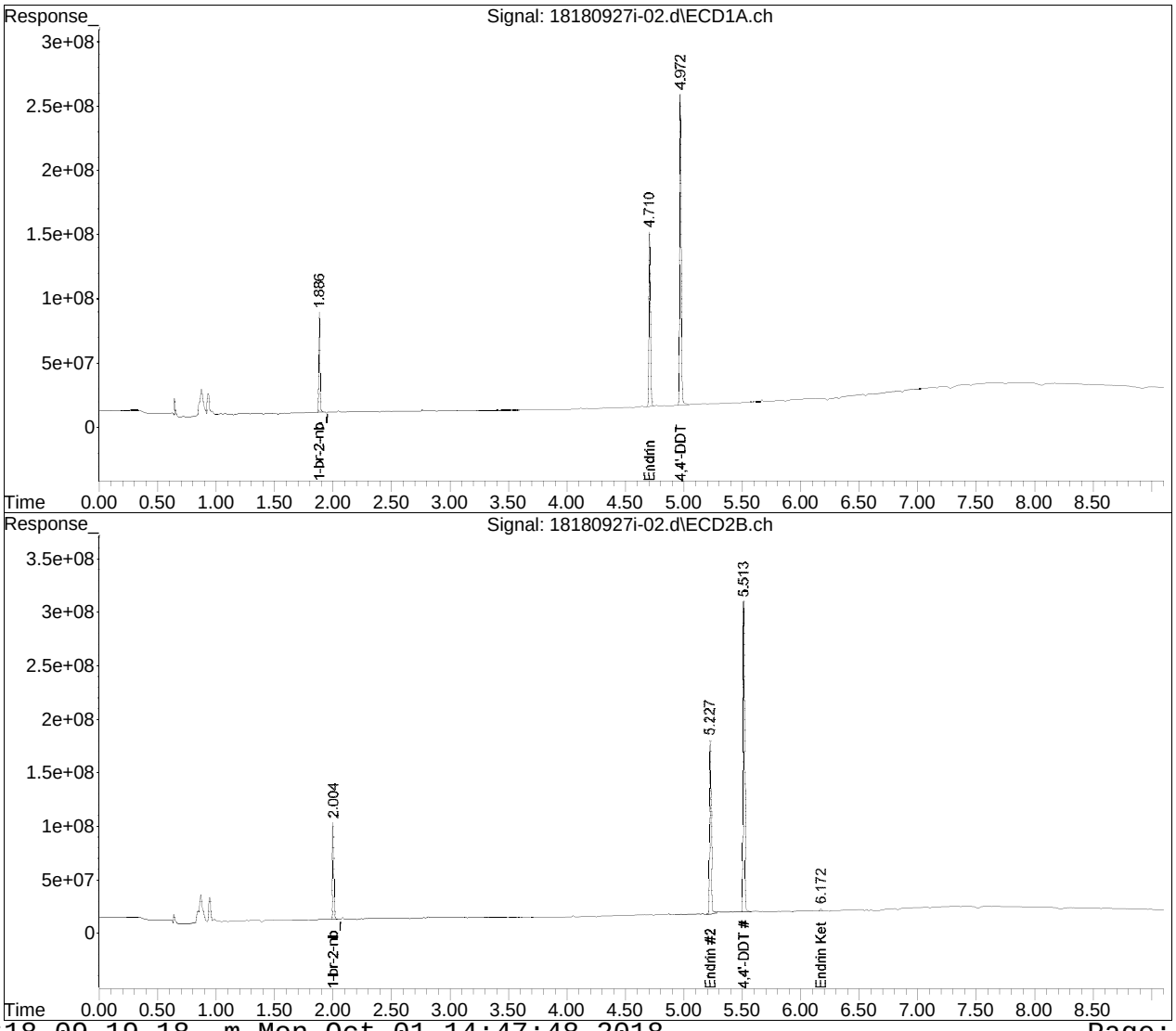
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : 4_DEG - deg checkReport (QT Reviewed)

Data Path : I:\Pest18\180919ical\
Data File : 18180927i-02.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Sep 2018 6:13 pm
Operator : PEST18:jw
Sample : pem18180919ical02,42e,,deg pp8910 (Sig #1); deg pp8910 (Sig #2)
Misc : wg1162772,ical
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 28 15:49:00 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Thu Sep 27 17:04:23 2018
Response via : Initial Calibration
Integrator: ChemStation

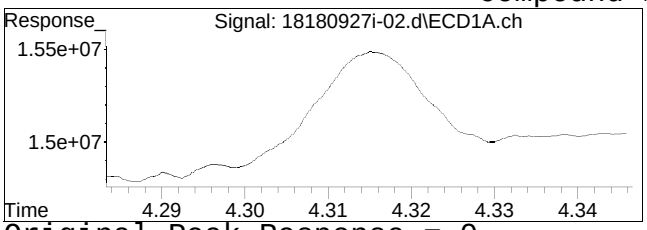
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

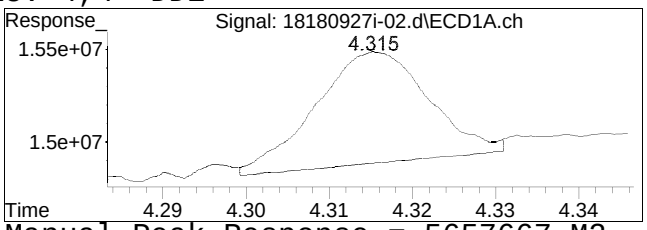


Manual Integration/Negative Proof Report

Data Path : I:\Pest18\180919ical\ QMethod : pest18_09_19_18_.m
Data File : 18180927i-02.d Operator : PEST18:jw
Date Inj'd : 9/27/2018 6:13 pm Instrument : Pest 18
Sample : pem18180919ical02,42e,,deg Quant Date : 9/28/2018 3:48 pm

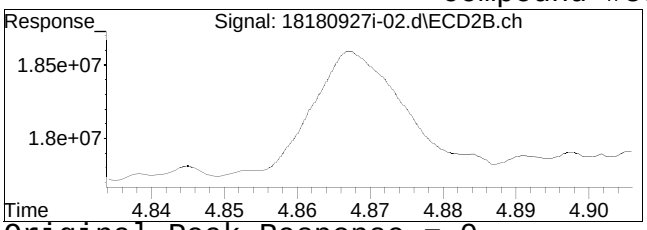
Compound #15: 4,4'-DDE

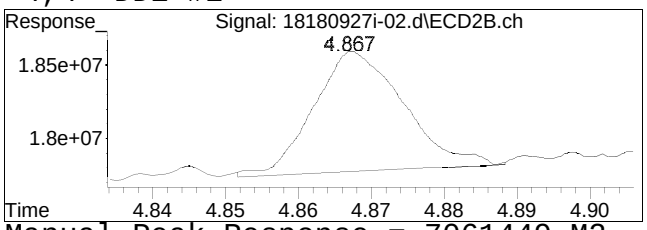




Original Peak Response = 0 Manual Peak Response = 5657667 M2
M2 = Peak not found by automatic integration algorithm.

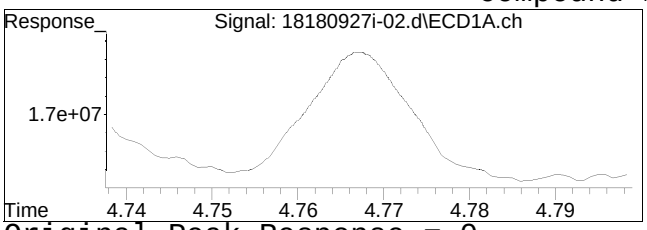
Compound #53: 4,4'-DDE #2

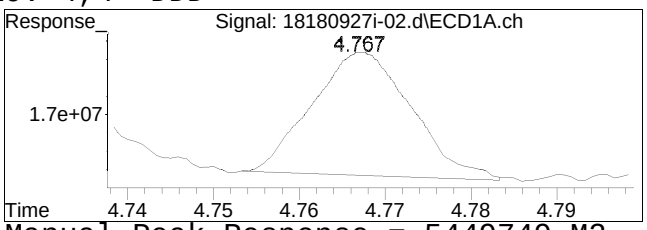




Original Peak Response = 0 Manual Peak Response = 7061449 M2
M2 = Peak not found by automatic integration algorithm.

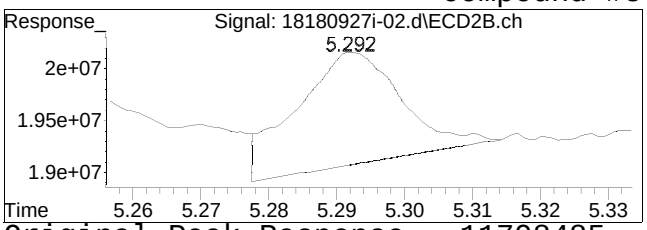
Compound #19: 4,4'-DDD

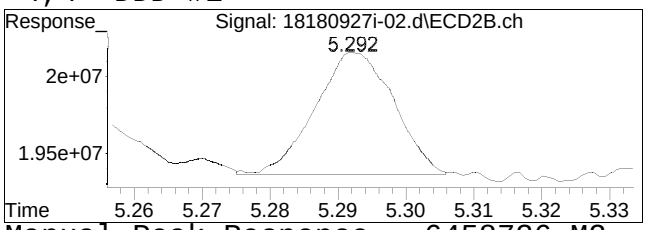




Original Peak Response = 0 Manual Peak Response = 5449749 M2
M2 = Peak not found by automatic integration algorithm.

Compound #57: 4,4'-DDD #2





Original Peak Response = 11798485 Manual Peak Response = 6458736 M2
M2 = Peak not found by automatic integration algorithm.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest18\180919ical\
Data File : 18180927i-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Sep 2018 6:26 pm
Operator : PEST18:jw
Sample : il7tox,42e,,pp8928
Misc : wg1162772,ical
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 28 15:50:05 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Fri Sep 28 15:49:49 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb...	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb...	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb...	1.885	2.004	488.8E6	571.0E6	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-T...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
27) s	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC...	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest18\180919ical\
Data File : 18180927i-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Sep 2018 6:26 pm
Operator : PEST18:jw
Sample : il7tox,42e,,pp8928
Misc : wg1162772,ical
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 28 15:50:05 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Fri Sep 28 15:49:49 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	4.864	5.338	2201.6E6	1154.0E6	2000.000	2000.000
35) l2	toxaphene-2	4.952	5.365	1907.4E6	1641.0E6	2000.000	2000.000
36) l2	toxaphene-3	5.112	5.434	1760.3E6	3037.6E6	2000.000	2000.000
37) l2	toxaphene-5	5.406	5.965	1726.6E6	1856.4E6	2000.000	2000.000
Sum	toxaphene-1			7595.9E6	7689.0E6	8000.000	8000.000
Average	toxaphene-1					2000.000	2000.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			7595.9E6	7689.0E6	8000.000	8000.000
Average	toxaphene-1					2000.000	2000.000

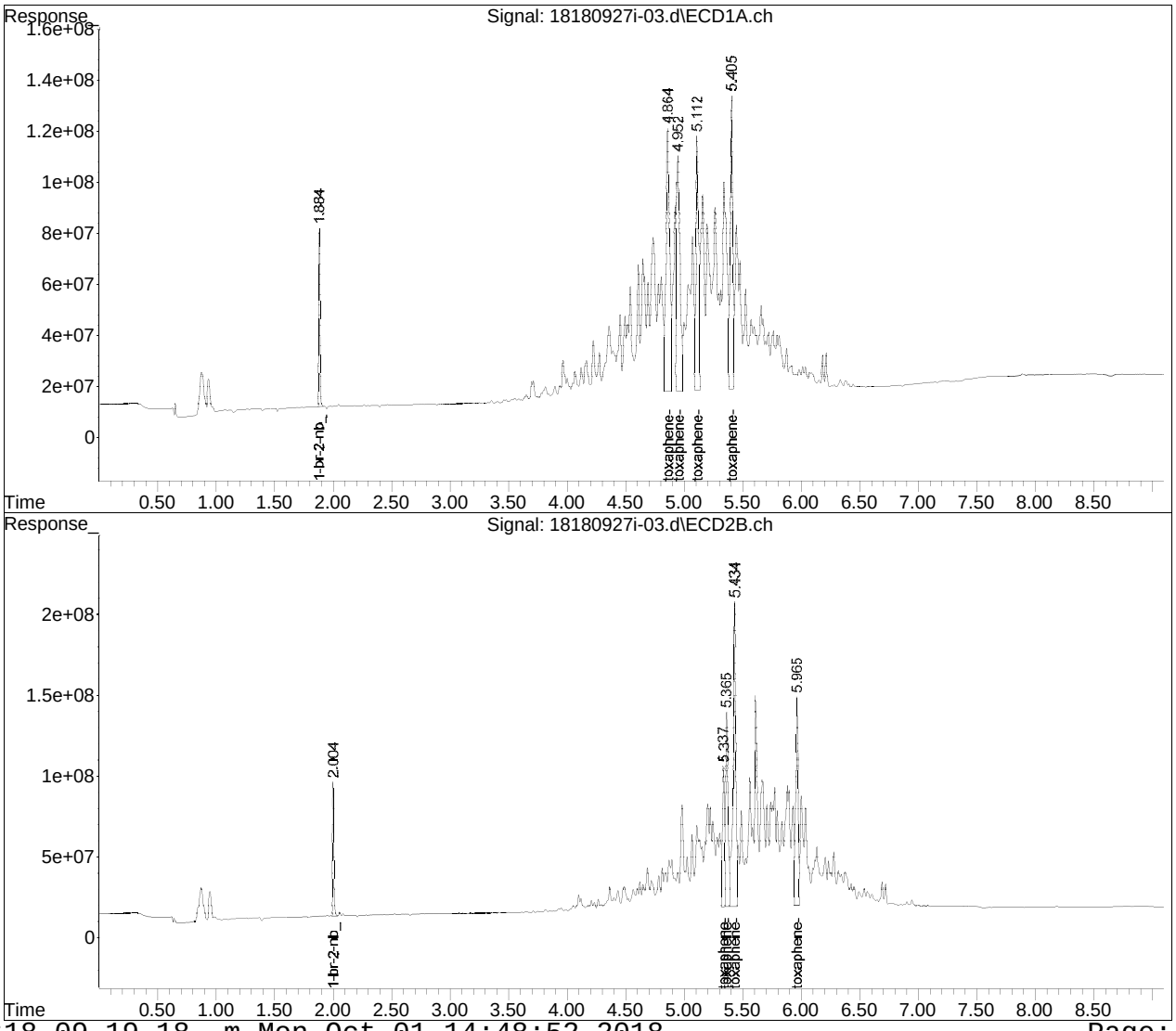
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest18\180919ical\
Data File : 18180927i-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Sep 2018 6:26 pm
Operator : PEST18:jw
Sample : il7tox,42e,,pp8928
Misc : wg1162772,ical
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 28 15:50:05 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Fri Sep 28 15:49:49 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration/Negative Proof Report

Data Path	: I:\Pest18\180919ical\	QMethod	: pest18_09_19_18_.m
Data File	: 18180927i-03.d	Operator	: PEST18:jw
Date Inj'd	: 9/27/2018 6:26 pm	Instrument	: Pest 18
Sample	: il7tox,42e,,pp8928	Quant Date	: 9/28/2018 3:49 pm

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : I:\Pest18\180919ical\
Data File : 18180927i-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 27 Sep 2018   6:38 pm
Operator : PEST18:jw
Sample   : cicvtox,42e,,pp8684
Misc   : wg1162772,ical
ALS Vial : 4   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 28 15:50:38 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Fri Sep 28 15:50:13 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
33	i	1-br-2-nb_Toxaphene	25.000	25.000	0.0	99	0.00
34	l2	toxaphene-1	2000.000	1866.809	6.7	93	0.00
35	l2	toxaphene-2	2000.000	1803.222	9.8	90	0.00
36	l2	toxaphene-3	2000.000	1804.316	9.8	90	0.00
37	l2	toxaphene-5	2000.000	1806.129	9.7	90	0.00

Signal #2

33	i	1-br-2-nb_Toxaphene	25.000	25.000	0.0	100	0.00
34	l2	toxaphene-1	2000.000	2017.387	-0.9	101	0.00
35	l2	toxaphene-2	2000.000	1961.431	1.9	98	0.00
36	l2	toxaphene-3	2000.000	1960.965	2.0	98	0.00
37	l2	toxaphene-5	2000.000	1950.893	2.5	98	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	25.000	25.000	0.0	0	-1.88#
2	s	2,4,5,6-Tetrachloro-m-xylen	10.000	0.000	100.0#	0	-2.37#
3		Hexachlorobenzene	10.000	0.000	100.0#	0	-2.62#
4		alpha-BHC	10.000	0.000	100.0#	0	-2.74#
5		gamma-BHC (lindane)	10.000	0.000	100.0#	0	-2.96#
6		beta-BHC	10.000	0.000	100.0#	0	-3.02#
7		delta-BHC	10.000	0.000	100.0#	0	-3.16#
8		Heptachlor	10.000	0.000	100.0#	0	-3.32#
9		Aldrin	10.000	0.000	100.0#	0	-3.56#
10		Alachlor	10.000	0.000	100.0#	0	-3.66#
11		Chlorpyrifos	10.000	0.000	100.0#	0	-3.75#
12		Heptachlor Epoxide	10.000	0.000	100.0#	0	-4.04#
13		gamma-Chlordane (trans)	10.000	0.000	100.0#	0	-4.14#

Data Path : I:\Pest18\180919ical\
Data File : 18180927i-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 27 Sep 2018   6:38 pm
Operator : PEST18:jw
Sample   : cicvtox,42e,,pp8684
Misc   : wg1162772,ical
ALS Vial : 4   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 28 15:50:38 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Fri Sep 28 15:50:13 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
14		alpha-Chlordane (cis)	10.000	0.000	100.0#	0	-4.25#
15		4,4'-DDE	10.000	0.000	100.0#	0	-4.31#
16		Endosulfan I	10.000	0.000	100.0#	0	-4.35#
17		Dieldrin	10.000	0.000	100.0#	0	-4.54#
18		Endrin	10.000	0.000	100.0#	0	-4.71#
19		4,4'-DDD	10.000	0.000	100.0#	0	-4.77#
20		Endosulfan II	10.000	0.000	100.0#	0	-4.87#
21		4,4'-DDT	10.000	0.000	100.0#	0	-4.97#
22		Endrin Aldehyde	10.000	0.000	100.0#	0	-5.17#
23		Methoxychlor	10.000	0.000	100.0#	0	-5.32#
24		Mirex	10.000	0.000	100.0#	0	-5.41#
25		Endosulfan Sulfate	10.000	0.000	100.0#	0	-5.48#
26		Endrin Ketone	10.000	0.000	100.0#	0	-5.67#
27	s	Decachlorobiphenyl	10.000	0.000	100.0#	0	-6.34#
28	i	1-br-2-nb_Chlordane	25.000	25.000	0.0	0	-1.88#
29	l1	chlordane-1	1000.000	0.000	100.0#	0	-3.26#
30	l1	chlordane-2	1000.000	0.000	100.0#	0	-3.32#
31	l1	chlordane-3	1000.000	0.000	100.0#	0	-4.15#
32	l1	chlordane-4	1000.000	0.000	100.0#	0	-4.24#

Signal #2

1	i	1-br-2-nb_Pesticides	25.000	25.000	0.0	0	-2.00#
2	s	2,4,5,6-Tetrachloro-m-xyl	10.000	0.000	100.0#	0	-2.61#
3		Hexachlorobenzene	10.000	0.000	100.0#	0	-2.97#
4		alpha-BHC	10.000	0.000	100.0#	0	-3.07#
5		gamma-BHC (lindane)	10.000	0.000	100.0#	0	-3.36#
6		beta-BHC	10.000	0.000	100.0#	0	-3.42#
7		delta-BHC	10.000	0.000	100.0#	0	-3.68#

Evaluate Continuing Calibration Report

Data Path : I:\Pest18\180919ical\
Data File : 18180927i-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 27 Sep 2018   6:38 pm
Operator : PEST18:jw
Sample   : cicvtox,42e,,pp8684
Misc   : wg1162772,ical
ALS Vial : 4   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 28 15:50:38 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Fri Sep 28 15:50:13 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
8		Heptachlor	10.000	0.000	100.0#	0	-3.73#
9		Aldrin	10.000	0.000	100.0#	0	-4.02#
10		Alachlor	10.000	0.000	100.0#	0	-3.91#
11		Chlorpyrifos	10.000	0.000	100.0#	0	-4.19#
12		Heptachlor Epoxide	10.000	0.000	100.0#	0	-4.48#
13		gamma-Chlordane (trans)	10.000	0.000	100.0#	0	-4.63#
14		alpha-Chlordane (cis)	10.000	0.000	100.0#	0	-4.74#
15		4,4'-DDE	10.000	0.000	100.0#	0	-4.86#
16		Endosulfan I	10.000	0.000	100.0#	0	-4.79#
17		Dieldrin	10.000	0.000	100.0#	0	-5.00#
18		Endrin	10.000	0.000	100.0#	0	-5.22#
19		4,4'-DDD	10.000	0.000	100.0#	0	-5.29#
20		Endosulfan II	10.000	0.000	100.0#	0	-5.37#
21		4,4'-DDT	10.000	0.000	100.0#	0	-5.51#
22		Endrin Aldehyde	10.000	0.000	100.0#	0	-5.61#
23		Methoxychlor	10.000	0.000	100.0#	0	-5.97#
24		Mirex	10.000	0.000	100.0#	0	-6.13#
25		Endosulfan Sulfate	10.000	0.000	100.0#	0	-5.79#
26		Endrin Ketone	10.000	0.000	100.0#	0	-6.16#
27	s	Decachlorobiphenyl	10.000	0.000	100.0#	0	-6.95#
28	i	1-br-2-nb_Chlordane	25.000	25.000	0.0	0	-2.00#
29	l1	chlordane-1	1000.000	0.000	100.0#	0	-3.61#
30	l1	chlordane-2	1000.000	0.000	100.0#	0	-3.73#
31	l1	chlordane-3	1000.000	0.000	100.0#	0	-4.70#
32	l1	chlordane-4	1000.000	0.000	100.0#	0	-4.74#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\Pest18\180919ical\
Data File : 18180927i-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Sep 2018 6:38 pm
Operator : PEST18:jw
Sample : cicvtox,42e,,pp8684
Misc : wg1162772,ical
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 28 15:50:38 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Fri Sep 28 15:50:13 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb...	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb...	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb...	1.885	2.004	485.6E6	570.9E6	25.000	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-T...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
27) s	Decachlor...	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlor...	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC...	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlo...	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chl...	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Al...	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\Pest18\180919ical\
Data File : 18180927i-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Sep 2018 6:38 pm
Operator : PEST18:jw
Sample : cicvtox,42e,,pp8684
Misc : wg1162772,ical
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 28 15:50:38 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Fri Sep 28 15:50:13 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfa...	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Ke...	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	4.863	5.337	2041.3E6	1163.7E6	1866.809	2017.387
35) l2	toxaphene-2	4.952	5.365	1708.3E6	1608.8E6	1803.222	1961.431
36) l2	toxaphene-3	5.111	5.434	1577.5E6	2977.3E6	1804.316	1960.965
37) l2	toxaphene-5	5.405	5.964	1548.9E6	1810.2E6	1806.129	1950.893
Sum	toxaphene-1			6876.0E6	7560.0E6	7280.476	7890.676
Average	toxaphene-1					1820.119	1972.669

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			6876.0E6	7560.0E6	7280.476	7890.676
Average	toxaphene-1					1820.119	1972.669

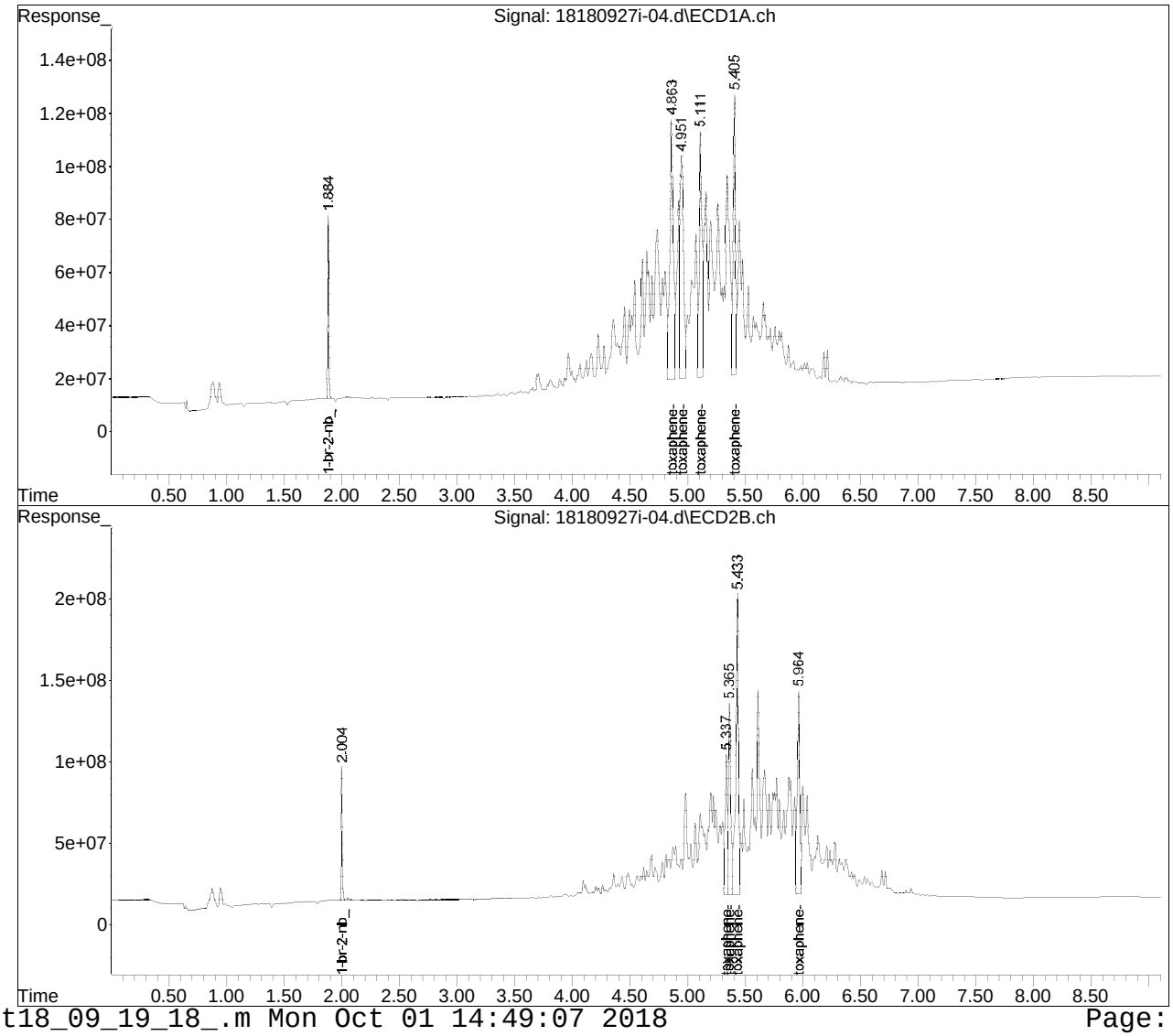
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest18\180919ical\
Data File : 18180927i-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Sep 2018 6:38 pm
Operator : PEST18:jw
Sample : cicvtox,42e,,pp8684
Misc : wg1162772,ical
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Sep 28 15:50:38 2018
Quant Method : I:\Pest18\180919ical\pest18_09_19_18_.m
Quant Title : pest
QLast Update : Fri Sep 28 15:50:13 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Manual Integration/Negative Proof Report

Data Path	: I:\Pest18\180919ical\	QMethod	: pest18_09_19_18_.m
Data File	: 18180927i-04.d	Operator	: PEST18:jw
Date Inj'd	: 9/27/2018 6:38 pm	Instrument	: Pest 18
Sample	: cicvtox,42e,,pp8684	Quant Date	: 9/28/2018 3:50 pm

There are no manual integrations or false positives in this file.

Continuing Calibration

Continuing Calibration
Form 7

Client	: CHA Companies	**Lab Number**	: L1849060		
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000		
Instrument ID	: PEST18	**Calibration Date**	: 12/05/18 17:57		
Lab File ID	: 18181205c-02	**Init. Calib. Date(s)**	: 09/19/18	09/27/18	
Sample No	: WG1186046-1	**Init. Calib. Times**	: 18:11	18:26	
Channel	: A				

Compound	Amount	Calc.	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Pesticides	25	25	-	0	20	139	0
2,4,5,6-Tetrachloro-m-xylen	50	47.437	-	5.1	20	153	0
Hexachlorobenzene	50	49.571	-	0.9	20	163	0
alpha-BHC	50	43.171	-	13.7	20	144	0
gamma-BHC (lindane)	50	43.374	-	13.3	20	145	0
beta-BHC	50	44.53	-	10.9	20	145	0
delta-BHC	50	42.743	-	14.5	20	144	0
Heptachlor	50	45.994	-	8	20	147	0
Aldrin	50	46.566	-	6.9	20	149	0
Alachlor	50	42.932	-	14.1	20	152	0
Chlorpyrifos	50	46.084	-	7.8	20	140	0
Heptachlor Epoxide	50	48.931	-	2.1	20	156	0
gamma-Chlordane (trans)	50	44.983	-	10	20	149	0
alpha-Chlordane (cis)	50	44.663	-	10.7	20	146	0
4,4'-DDE	50	42.695	-	14.6	20	143	0
Endosulfan I	50	46.511	-	7	20	150	0
Dieldrin	50	48.14	-	3.7	20	157	0
Endrin	50	46.515	-	7	20	151	0
4,4'-DDD	50	41.986	-	16	20	139	0
Endosulfan II	50	44.821	-	10.4	20	141	0
4,4'-DDT	50	42.687	-	14.6	20	141	0
Endrin Aldehyde	50	43.477	-	13	20	143	0
Methoxychlor	50	42.189	-	15.6	20	129	0
Mirex	50	47.419	-	5.2	20	136	0
Endosulfan Sulfate	50	44.832	-	10.3	20	147	0
Endrin Ketone	50	46.291	-	7.4	20	147	0
Decachlorobiphenyl	50	47.368	-	5.3	20	156	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: CHA Companies	**Lab Number**	: L1849060		
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000		
Instrument ID	: PEST18	**Calibration Date**	: 12/05/18 17:57		
Lab File ID	: 18181205c-02	**Init. Calib. Date(s)**	: 09/19/18	09/27/18	
Sample No	: WG1186046-1	**Init. Calib. Times**	: 18:11	18:26	
Channel	: B				

Compound	Amount	Calc.	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Pesticides	25	25	-	0	20	130	0
2,4,5,6-Tetrachloro-m-xyl	50	48.637	-	2.7	20	147	0
Hexachlorobenzene	50	49.75	-	0.5	20	154	0
alpha-BHC	50	43.405	-	13.2	20	138	0
gamma-BHC (lindane)	50	43.294	-	13.4	20	137	0
beta-BHC	50	42.331	-	15.3	20	132	0
delta-BHC	50	42.128	-	15.7	20	134	0
Heptachlor	50	44.857	-	10.3	20	136	0
Aldrin	50	45.943	-	8.1	20	141	0
Alachlor	50	46.702	-	6.6	20	160	0
Chlorpyrifos	50	43.11	-	13.8	20	125	0
Heptachlor Epoxide	50	47.638	-	4.7	20	146	0
gamma-Chlordane (trans)	50	43.215	-	13.6	20	135	0
alpha-Chlordane (cis)	50	43.427	-	13.1	20	137	0
4,4'-DDE	50	43.05	-	13.9	20	137	0
Endosulfan I	50	43.688	-	12.6	20	134	0
Dieldrin	50	47.035	-	5.9	20	147	0
Endrin	50	45.296	-	9.4	20	139	0
4,4'-DDD	50	40.388	-	19.2	20	130	0
Endosulfan II	50	45.259	-	9.5	20	136	0
4,4'-DDT	50	42.057	-	15.9	20	131	0
Endrin Aldehyde	50	40.683	-	18.6	20	129	0
Methoxychlor	50	42.799	-	14.4	20	131	0
Mirex	50	45.961	-	8.1	20	127	0
Endosulfan Sulfate	50	42.763	-	14.5	20	134	0
Endrin Ketone	50	46.431	-	7.1	20	141	0
Decachlorobiphenyl	50	44.517	-	11	20	138	-.01

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: CHA Companies		**Lab Number**	: L1849060	
Project Name	: 700 SMITH BLVD		**Project Number**	: 29852.1202.44000	
Instrument ID	: PEST18		**Calibration Date**	: 12/05/18 18:10	
Lab File ID	: 18181205c-03		**Init. Calib. Date(s)**	: 09/19/18	09/27/18
Sample No	: WG1186046-2		**Init. Calib. Times**	: 18:11	18:26
Channel	: A				

Compound	Amount	Calc.	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Chlordane	25	25	-	0	20	127	0
chlordane-1	1000	1026.428	-	-2.6	20	128	0
chlordane-2	1000	821.057	-	17.9	20	100	0
chlordane-3	1000	1017.199	-	-1.7	20	128	0
chlordane-4	1000	1027.963	-	-2.8	20	128	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: CHA Companies		**Lab Number**	: L1849060	
Project Name	: 700 SMITH BLVD		**Project Number**	: 29852.1202.44000	
Instrument ID	: PEST18		**Calibration Date**	: 12/05/18 18:10	
Lab File ID	: 18181205c-03		**Init. Calib. Date(s)**	: 09/19/18	09/27/18
Sample No	: WG1186046-2		**Init. Calib. Times**	: 18:11	18:26
Channel	: B				

Compound	Amount	Calc.	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Chlordane	25	25	-	0	20	121	0
chlordane-1	1000	999.031	-	0.1	20	118	0
chlordane-2	1000	806.443	-	19.4	20	93	0
chlordane-3	1000	1098.834	-	-9.9	20	129	0
chlordane-4	1000	986.728	-	1.3	20	114	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: CHA Companies		**Lab Number**	: L1849060	
Project Name	: 700 SMITH BLVD		**Project Number**	: 29852.1202.44000	
Instrument ID	: PEST18		**Calibration Date**	: 12/05/18 18:23	
Lab File ID	: 18181205c-04		**Init. Calib. Date(s)**	: 09/19/18	09/27/18
Sample No	: WG1186046-3		**Init. Calib. Times**	: 18:11	18:26
Channel	: A				

Compound	Amount	Calc.	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Toxaphene	25	25	-	0	20	150	0
toxaphene-1	2000	1862.773	-	6.9	20	140	0
toxaphene-2	2000	1846.719	-	7.7	20	139	0
toxaphene-3	2000	1928.326	-	3.6	20	145	0
toxaphene-5	2000	1786.432	-	10.7	20	134	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: CHA Companies		**Lab Number**	: L1849060	
Project Name	: 700 SMITH BLVD		**Project Number**	: 29852.1202.44000	
Instrument ID	: PEST18		**Calibration Date**	: 12/05/18 18:23	
Lab File ID	: 18181205c-04		**Init. Calib. Date(s)**	: 09/19/18	09/27/18
Sample No	: WG1186046-3		**Init. Calib. Times**	: 18:11	18:26
Channel	: B				

Compound	Amount	Calc.	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Toxaphene	25	25	-	0	20	142	0
toxaphene-1	2000	1823.748	-	8.8	20	129	0
toxaphene-2	2000	1852.169	-	7.4	20	131	0
toxaphene-3	2000	1774.07	-	11.3	20	126	0
toxaphene-5	2000	1717.056	-	14.1	20	122	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: CHA Companies	**Lab Number**	: L1849060		
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000		
Instrument ID	: PEST18	**Calibration Date**	: 12/05/18 23:54		
Lab File ID	: 18181205c-25	**Init. Calib. Date(s)**	: 09/19/18	09/27/18	
Sample No	: WG1186046-4	**Init. Calib. Times**	: 18:11	18:26	
Channel	: A				

Compound	Amount	Calc.	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Pesticides	25	25	-	0	20	148	0
2,4,5,6-Tetrachloro-m-xylen	50	47.407	-	5.2	20	163	0
Hexachlorobenzene	50	49.86	-	0.3	20	174	0
alpha-BHC	50	43.473	-	13.1	20	155	0
gamma-BHC (lindane)	50	43.876	-	12.2	20	156	0
beta-BHC	50	43.892	-	12.2	20	152	0
delta-BHC	50	43.424	-	13.2	20	156	0
Heptachlor	50	46.925	-	6.2	20	159	0
Aldrin	50	47.581	-	4.8	20	163	0
Alachlor	50	43.997	-	12	20	166	0
Chlorpyrifos	50	48.443	-	3.1	20	156	0
Heptachlor Epoxide	50	50.586	-	-1.2	20	172	0
gamma-Chlordane (trans)	50	46.516	-	7	20	164	0
alpha-Chlordane (cis)	50	46.485	-	7	20	162	0
4,4'-DDE	50	44.906	-	10.2	20	160	0
Endosulfan I	50	47.942	-	4.1	20	164	0
Dieldrin	50	50.169	-	-0.3	20	174	0
Endrin	50	48.222	-	3.6	20	167	0
4,4'-DDD	50	43.947	-	12.1	20	155	0
Endosulfan II	50	46.942	-	6.1	20	157	0
4,4'-DDT	50	45.725	-	8.5	20	161	0
Endrin Aldehyde	50	44.185	-	11.6	20	155	0
Methoxychlor	50	45.176	-	9.6	20	148	0
Mirex	50	50.386	-	-0.8	20	153	0
Endosulfan Sulfate	50	48.706	-	2.6	20	170	0
Endrin Ketone	50	49.674	-	0.7	20	168	0
Decachlorobiphenyl	50	49.155	-	1.7	20	173	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: CHA Companies	**Lab Number**	: L1849060		
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000		
Instrument ID	: PEST18	**Calibration Date**	: 12/05/18 23:54		
Lab File ID	: 18181205c-25	**Init. Calib. Date(s)**	: 09/19/18	09/27/18	
Sample No	: WG1186046-4	**Init. Calib. Times**	: 18:11	18:26	
Channel	: B				

Compound	Amount	Calc.	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Pesticides	25	25	-	0	20	136	0
2,4,5,6-Tetrachloro-m-xyl	50	48.625	-	2.8	20	153	0
Hexachlorobenzene	50	50.736	-	-1.5	20	164	0
alpha-BHC	50	43.351	-	13.3	20	143	0
gamma-BHC (lindane)	50	43.566	-	12.9	20	143	0
beta-BHC	50	41.488	-	17	20	135	0
delta-BHC	50	43.021	-	14	20	143	0
Heptachlor	50	45.761	-	8.5	20	145	0
Aldrin	50	46.81	-	6.4	20	150	0
Alachlor	50	47.805	-	4.4	20	170	0
Chlorpyrifos	50	45.572	-	8.9	20	138	0
Heptachlor Epoxide	50	48.56	-	2.9	20	155	0
gamma-Chlordane (trans)	50	44.533	-	10.9	20	145	0
alpha-Chlordane (cis)	50	45.104	-	9.8	20	148	0
4,4'-DDE	50	44.526	-	10.9	20	148	0
Endosulfan I	50	45.011	-	10	20	144	0
Dieldrin	50	48.234	-	3.5	20	157	0
Endrin	50	46.979	-	6	20	150	0
4,4'-DDD	50	42.958	-	14.1	20	144	0
Endosulfan II	50	45.875	-	8.3	20	144	0
4,4'-DDT	50	45.027	-	9.9	20	145	0
Endrin Aldehyde	50	41.742	-	16.5	20	138	0
Methoxychlor	50	42.614	-	14.8	20	136	0
Mirex	50	48.308	-	3.4	20	139	0
Endosulfan Sulfate	50	44.86	-	10.3	20	146	0
Endrin Ketone	50	48.172	-	3.7	20	153	0
Decachlorobiphenyl	50	45.422	-	9.2	20	146	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: CHA Companies		**Lab Number**	: L1849060	
Project Name	: 700 SMITH BLVD		**Project Number**	: 29852.1202.44000	
Instrument ID	: PEST18		**Calibration Date**	: 12/06/18 08:53	
Lab File ID	: 18181206a-02		**Init. Calib. Date(s)**	: 09/19/18	09/27/18
Sample No	: WG1186320-1		**Init. Calib. Times**	: 18:11	18:26
Channel	: A				

Compound	Amount	Calc.	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Pesticides	25	25	-	0	20	146	0
2,4,5,6-Tetrachloro-m-xylen	50	47.671	-	4.7	20	161	0
Hexachlorobenzene	50	48.891	-	2.2	20	168	0
alpha-BHC	50	42.908	-	14.2	20	150	0
gamma-BHC (lindane)	50	42.799	-	14.4	20	149	0
beta-BHC	50	42.252	-	15.5	20	144	0
delta-BHC	50	41.939	-	16.1	20	148	0
Heptachlor	50	45.584	-	8.8	20	152	0
Aldrin	50	46.288	-	7.4	20	155	0
Alachlor	50	41.95	-	16.1	20	155	0
Chlorpyrifos	50	45.142	-	9.7	20	143	0
Heptachlor Epoxide	50	48.029	-	3.9	20	160	0
gamma-Chlordane (trans)	50	44.635	-	10.7	20	154	0
alpha-Chlordane (cis)	50	44.221	-	11.6	20	151	0
4,4'-DDE	50	43.251	-	13.5	20	152	0
Endosulfan I	50	45.685	-	8.6	20	154	0
Dieldrin	50	47.537	-	4.9	20	162	0
Endrin	50	45.463	-	9.1	20	154	0
4,4'-DDD	50	42.427	-	15.1	20	147	0
Endosulfan II	50	44.057	-	11.9	20	145	0
4,4'-DDT	50	43.213	-	13.6	20	150	0
Endrin Aldehyde	50	41.608	-	16.8	20	143	0
Methoxychlor	50	42.33	-	15.3	20	136	0
Mirex	50	48.38	-	3.2	20	145	0
Endosulfan Sulfate	50	44.766	-	10.5	20	154	0
Endrin Ketone	50	45.932	-	8.1	20	153	0
Decachlorobiphenyl	50	42.656	-	14.7	20	147	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: CHA Companies		**Lab Number**	: L1849060	
Project Name	: 700 SMITH BLVD		**Project Number**	: 29852.1202.44000	
Instrument ID	: PEST18		**Calibration Date**	: 12/06/18 08:53	
Lab File ID	: 18181206a-02		**Init. Calib. Date(s)**	: 09/19/18	09/27/18
Sample No	: WG1186320-1		**Init. Calib. Times**	: 18:11	18:26
Channel	: B				

Compound	Amount	Calc.	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Pesticides	25	25	-	0	20	131	0
2,4,5,6-Tetrachloro-m-xyl	50	48.735	-	2.5	20	149	0
Hexachlorobenzene	50	49.864	-	0.3	20	156	0
alpha-BHC	50	43.033	-	13.9	20	138	0
gamma-BHC (lindane)	50	42.729	-	14.5	20	136	0
beta-BHC	50	41.891	-	16.2	20	132	0
delta-BHC	50	41.669	-	16.7	20	134	0
Heptachlor	50	44.444	-	11.1	20	136	0
Aldrin	50	46.102	-	7.8	20	143	0
Alachlor	50	46.064	-	7.9	20	159	0
Chlorpyrifos	50	43.822	-	12.4	20	128	0
Heptachlor Epoxide	50	47.19	-	5.6	20	146	0
gamma-Chlordane (trans)	50	43.064	-	13.9	20	135	0
alpha-Chlordane (cis)	50	43.357	-	13.3	20	137	0
4,4'-DDE	50	42.852	-	14.3	20	138	0
Endosulfan I	50	43.282	-	13.4	20	134	0
Dieldrin	50	46.635	-	6.7	20	147	0
Endrin	50	45.016	-	10	20	139	0
4,4'-DDD	50	41.199	-	17.6	20	133	0
Endosulfan II	50	43.93	-	12.1	20	133	0
4,4'-DDT	50	42.531	-	14.9	20	133	0
Endrin Aldehyde	50	40.103	-	19.8	20	128	0
Methoxychlor	50	40.585	-	18.8	20	126	0
Mirex	50	45.433	-	9.1	20	127	0
Endosulfan Sulfate	50	42.326	-	15.3	20	133	0
Endrin Ketone	50	45.422	-	9.2	20	140	0
Decachlorobiphenyl	50	40.956	-	18.1	20	128	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: CHA Companies		**Lab Number**	: L1849060	
Project Name	: 700 SMITH BLVD		**Project Number**	: 29852.1202.44000	
Instrument ID	: PEST18		**Calibration Date**	: 12/06/18 09:06	
Lab File ID	: 18181206a-03		**Init. Calib. Date(s)**	: 09/19/18	09/27/18
Sample No	: WG1186320-2		**Init. Calib. Times**	: 18:11	18:26
Channel	: A				

Compound	Amount	Calc.	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Chlordane	25	25	-	0	20	124	0
chlordane-1	1000	997.991	-	0.2	20	121	0
chlordane-2	1000	795.664	-	20.4*	20	94	0
chlordane-3	1000	968.303	-	3.2	20	118	0
chlordane-4	1000	1062.512	-	-6.3	20	129	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: CHA Companies		**Lab Number**	: L1849060	
Project Name	: 700 SMITH BLVD		**Project Number**	: 29852.1202.44000	
Instrument ID	: PEST18		**Calibration Date**	: 12/06/18 09:06	
Lab File ID	: 18181206a-03		**Init. Calib. Date(s)**	: 09/19/18	09/27/18
Sample No	: WG1186320-2		**Init. Calib. Times**	: 18:11	18:26
Channel	: B				

Compound	Amount	Calc.	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Chlordane	25	25	-	0	20	114	0
chlordane-1	1000	982.084	-	1.8	20	110	0
chlordane-2	1000	790.69	-	20.9*	20	86	0
chlordane-3	1000	1047.141	-	-4.7	20	116	0
chlordane-4	1000	937.092	-	6.3	20	102	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: CHA Companies		**Lab Number**	: L1849060	
Project Name	: 700 SMITH BLVD		**Project Number**	: 29852.1202.44000	
Instrument ID	: PEST18		**Calibration Date**	: 12/06/18 09:18	
Lab File ID	: 18181206a-04		**Init. Calib. Date(s)**	: 09/19/18	09/27/18
Sample No	: WG1186320-3		**Init. Calib. Times**	: 18:11	18:26
Channel	: A				

Compound	Amount	Calc.	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Toxaphene	25	25	-	0	20	140	0
toxaphene-1	2000	1807.955	-	9.6	20	127	0
toxaphene-2	2000	1791.327	-	10.4	20	126	0
toxaphene-3	2000	1820.34	-	9	20	128	0
toxaphene-5	2000	1709.316	-	14.5	20	120	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: CHA Companies		**Lab Number**	: L1849060	
Project Name	: 700 SMITH BLVD		**Project Number**	: 29852.1202.44000	
Instrument ID	: PEST18		**Calibration Date**	: 12/06/18 09:18	
Lab File ID	: 18181206a-04		**Init. Calib. Date(s)**	: 09/19/18	09/27/18
Sample No	: WG1186320-3		**Init. Calib. Times**	: 18:11	18:26
Channel	: B				

Compound	Amount	Calc.	Min RRF	%D	Max %D	Area%	Dev(min)
1-br-2-nb_Toxaphene	25	25	-	0	20	128	0
toxaphene-1	2000	1740.605	-	13	20	112	0
toxaphene-2	2000	1775.083	-	11.2	20	114	0
toxaphene-3	2000	1704.181	-	14.8	20	109	0
toxaphene-5	2000	1633.602	-	18.3	20	105	0

* Value outside of QC limits.

Evaluate Continuing Calibration Report

Data Path : I:\Pest18\181206A\
Data File : 18181206a-02.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 6 Dec 2018   8:53 am
Operator : PEST18:amc
Sample   : WG1186320-1,42e,,pest icv 8985 (Sig #1); pest icv 8985 (Sig #2)
Misc   : WG1186320,ical15103
ALS Vial : 2   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 13:54:31 2018
Quant Method : I:\Pest18\181206A\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Wed Dec 05 18:46:40 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	25.000	25.000	0.0	146	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen	50.000	47.671	4.7	161	0.00
3		Hexachlorobenzene	50.000	48.891	2.2	168	0.00
4		alpha-BHC	50.000	42.908	14.2	150	0.00
5		gamma-BHC (lindane)	50.000	42.799	14.4	149	0.00
6		beta-BHC	50.000	42.252	15.5	144	0.00
7		delta-BHC	50.000	41.939	16.1	148	0.00
8		Heptachlor	50.000	45.584	8.8	152	0.00
9		Aldrin	50.000	46.288	7.4	155	0.00
10		Alachlor	50.000	41.950	16.1	155	0.00
11		Chlorpyrifos	50.000	45.142	9.7	143	0.00
12		Heptachlor Epoxide	50.000	48.029	3.9	160	0.00
13		gamma-Chlordane (trans)	50.000	44.635	10.7	154	0.00
14		alpha-Chlordane (cis)	50.000	44.221	11.6	151	0.00
15		4,4'-DDE	50.000	43.251	13.5	152	0.00
16		Endosulfan I	50.000	45.685	8.6	154	0.00
17		Dieldrin	50.000	47.537	4.9	162	0.00
18		Endrin	50.000	45.463	9.1	154	0.00
19		4,4'-DDD	50.000	42.427	15.1	147	0.00
20		Endosulfan II	50.000	44.057	11.9	145	0.00
21		4,4'-DDT	50.000	43.213	13.6	150	0.00
22		Endrin Aldehyde	50.000	41.608	16.8	143	0.00
23		Methoxychlor	50.000	42.330	15.3	136	0.00
24		Mirex	50.000	48.380	3.2	145	0.00
25		Endosulfan Sulfate	50.000	44.766	10.5	154	0.00
26		Endrin Ketone	50.000	45.932	8.1	153	0.00
27	s	Decachlorobiphenyl	50.000	42.656	14.7	147	0.00

Signal #2

Evaluate Continuing Calibration Report

Data Path : I:\Pest18\181206A\
Data File : 18181206a-02.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 6 Dec 2018   8:53 am
Operator : PEST18:amc
Sample   : WG1186320-1,42e,,pest icv 8985 (Sig #1); pest icv 8985 (Sig #2)
Misc   : WG1186320,ical15103
ALS Vial : 2   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 13:54:31 2018
Quant Method : I:\Pest18\181206A\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Wed Dec 05 18:46:40 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	25.000	25.000	0.0	131	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl	50.000	48.735	2.5	149	0.00
3		Hexachlorobenzene	50.000	49.864	0.3	156	0.00
4		alpha-BHC	50.000	43.033	13.9	138	0.00
5		gamma-BHC (lindane)	50.000	42.729	14.5	136	0.00
6		beta-BHC	50.000	41.891	16.2	132	0.00
7		delta-BHC	50.000	41.669	16.7	134	0.00
8		Heptachlor	50.000	44.444	11.1	136	0.00
9		Aldrin	50.000	46.102	7.8	143	0.00
10		Alachlor	50.000	46.064	7.9	159	0.00
11		Chlorpyrifos	50.000	43.822	12.4	128	0.00
12		Heptachlor Epoxide	50.000	47.190	5.6	146	0.00
13		gamma-Chlordane (trans)	50.000	43.064	13.9	135	0.00
14		alpha-Chlordane (cis)	50.000	43.357	13.3	137	0.00
15		4,4'-DDE	50.000	42.852	14.3	138	0.00
16		Endosulfan I	50.000	43.282	13.4	134	0.00
17		Dieldrin	50.000	46.635	6.7	147	0.00
18		Endrin	50.000	45.016	10.0	139	0.00
19		4,4'-DDD	50.000	41.199	17.6	133	0.00
20		Endosulfan II	50.000	43.930	12.1	133	0.00
21		4,4'-DDT	50.000	42.531	14.9	133	0.00
22		Endrin Aldehyde	50.000	40.103	19.8	128	0.00
23		Methoxychlor	50.000	40.585	18.8	126	0.00
24		Mirex	50.000	45.433	9.1	127	0.00
25		Endosulfan Sulfate	50.000	42.326	15.3	133	0.00
26		Endrin Ketone	50.000	45.422	9.2	140	0.00
27	s	Decachlorobiphenyl	50.000	40.956	18.1	128	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\Pest18\181206A\
Data File : 18181206a-02.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 6 Dec 2018   8:53 am
Operator : PEST18:amc
Sample   : WG1186320-1,42e,,pest icv 8985 (Sig #1); pest icv 8985 (Sig #2)
Misc   : WG1186320,ical15103
ALS Vial : 2   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 13:54:31 2018
Quant Method : I:\Pest18\181206A\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Wed Dec 05 18:46:40 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	25.000	25.000	0.0	0	-1.74#
29	l1	chlordane-1	2500.000	0.000	100.0#	0	-3.06#
30	l1	chlordane-2	2500.000	0.000	100.0#	0	-3.13#
31	l1	chlordane-3	2500.000	0.000	100.0#	0	-3.94#
32	l1	chlordane-4	2500.000	0.000	100.0#	0	-4.04#
33	i	1-br-2-nb_Toxaphene	25.000	25.000	0.0	0	-1.74#
34	l2	toxaphene-1	5000.000	0.000	100.0#	0	-4.67#
35	l2	toxaphene-2	5000.000	0.000	100.0#	0	-4.76#
36	l2	toxaphene-3	5000.000	0.000	100.0#	0	-4.93#
37	l2	toxaphene-5	5000.000	0.000	100.0#	0	-5.23#

Signal #2

28	i	1-br-2-nb_Chlordane	25.000	25.000	0.0	0	-1.85#
29	l1	chlordane-1	2500.000	0.000	100.0#	0	-3.39#
30	l1	chlordane-2	2500.000	0.000	100.0#	0	-3.51#
31	l1	chlordane-3	2500.000	0.000	100.0#	0	-4.42#
32	l1	chlordane-4	2500.000	0.000	100.0#	0	-4.54#
33	i	1-br-2-nb_Toxaphene	25.000	25.000	0.0	0	-1.85#
34	l2	toxaphene-1	5000.000	0.000	100.0#	0	-5.14#
35	l2	toxaphene-2	5000.000	0.000	100.0#	0	-5.16#
36	l2	toxaphene-3	5000.000	0.000	100.0#	0	-5.23#
37	l2	toxaphene-5	5000.000	0.000	100.0#	0	-5.77#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\Pest18\181206A\
Data File : 18181206a-02.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Dec 2018 8:53 am
Operator : PEST18:amc
Sample : WG1186320-1,42e,,pest icv 8985 (Sig #1); pest icv 8985 (Sig #2)
Misc : WG1186320,ical15103
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 13:54:31 2018
Quant Method : I:\Pest18\181206A\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Wed Dec 05 18:46:40 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.742	1.851	764.4E6	827.6E6	25.000M4	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.207	2.431	1426.7E6	1585.5E6	47.671M4	48.735M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		95.34%	97.47%
27) s	Decachlorobi	6.168	6.750	1156.7E6	1066.8E6	42.656M4	40.956M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		85.31%	81.91%
	Target Compounds						
3)	Hexachlorobe	2.454	2.771	1467.2E6	1616.2E6	48.891M4	49.864M4
4)	alpha-BHC	2.565	2.871	2080.0E6	2301.2E6	42.908M4	43.033M4
5)	gamma-BHC (l	2.779	3.149	1865.8E6	2056.8E6	42.799M4	42.729M4
6)	beta-BHC	2.842	3.217	810.5E6	916.6E6	42.252M4	41.891
7)	delta-BHC	2.969	3.460	1883.1E6	2080.3E6	41.939M4	41.669M4
8)	Heptachlor	3.127	3.509	1888.7E6	2060.7E6	45.584M4	44.444
9)	Aldrin	3.355	3.789	1745.9E6	1934.2E6	46.288M4	46.102M4
10)	Alachlor	3.463	3.688	243.3E6	268.3E6	41.950M4	46.064M4
11)	Chlorpyrifos	3.550	3.979	896.4E6	978.6E6	45.142M4	43.822M4
12)	Heptachlor E	3.838	4.270	1638.8E6	1773.7E6	48.029M4	47.190M4

Data Path : I:\Pest18\181206A\
Data File : 18181206a-02.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Dec 2018 8:53 am
Operator : PEST18:amc
Sample : WG1186320-1,42e,,pest icv 8985 (Sig #1); pest icv 8985 (Sig #2)
Misc : WG1186320,ical15103
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 13:54:31 2018
Quant Method : I:\Pest18\181206A\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Wed Dec 05 18:46:40 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
13)		gamma-Chlord	3.944	4.422	1719.9E6	1836.2E6	44.635M4	43.064M4
14)		alpha-Chlord	4.050	4.536	1638.7E6	1728.4E6	44.221M4	43.357
15)		4,4'-DDE	4.121	4.663	1558.9E6	1713.2E6	43.251	42.852M4
16)		Endosulfan I	4.153	4.583	1555.3E6	1612.2E6	45.685	43.282
17)		Dieldrin	4.340	4.792	1737.1E6	1842.6E6	47.537M4	46.635M4
18)		Endrin	4.514	5.019	1682.2E6	1755.4E6	45.463M4	45.016M4
19)		4,4'-DDD	4.581	5.096	1356.8E6	1436.5E6	42.427M4	41.199M4
20)		Endosulfan I	4.684	5.176	1456.5E6	1560.9E6	44.057M4	43.930
21)		4,4'-DDT	4.791	5.318	1515.9E6	1575.5E6	43.213	42.531M4
22)		Endrin Aldeh	4.987	5.413	1236.0E6	1257.4E6	41.608M4	40.103M4
23)		Methoxychlor	5.154	5.789	738.6E6	737.2E6	42.330M4	40.585M4
24)		Mirex	5.232	5.938	1268.0E6	1158.2E6	48.380	45.433
25)		Endosulfan S	5.293	5.604	1537.7E6	1554.8E6	44.766M4	42.326M4
26)		Endrin Keton	5.484	5.968	1611.5E6	1630.8E6	45.932M4	45.422
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-2	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
32)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
	Sum	chlordane-1			0	0	N.D.	N.D.
Average		chlordane-1					0.000	0.000
34)	l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35)	l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36)	l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37)	l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
	Sum	toxaphene-1			0	0	N.D.	N.D.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest18\181206A\
Data File : 18181206a-02.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Dec 2018 8:53 am
Operator : PEST18:amc
Sample : WG1186320-1,42e,,pest icv 8985 (Sig #1); pest icv 8985 (Sig #2)
Misc : WG1186320,ical15103
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 13:54:31 2018
Quant Method : I:\Pest18\181206A\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Wed Dec 05 18:46:40 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
Average toxaphene-1					0.000	0.000
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum toxaphene-1			0	0	N.D.	N.D.
Average toxaphene-1					0.000	0.000

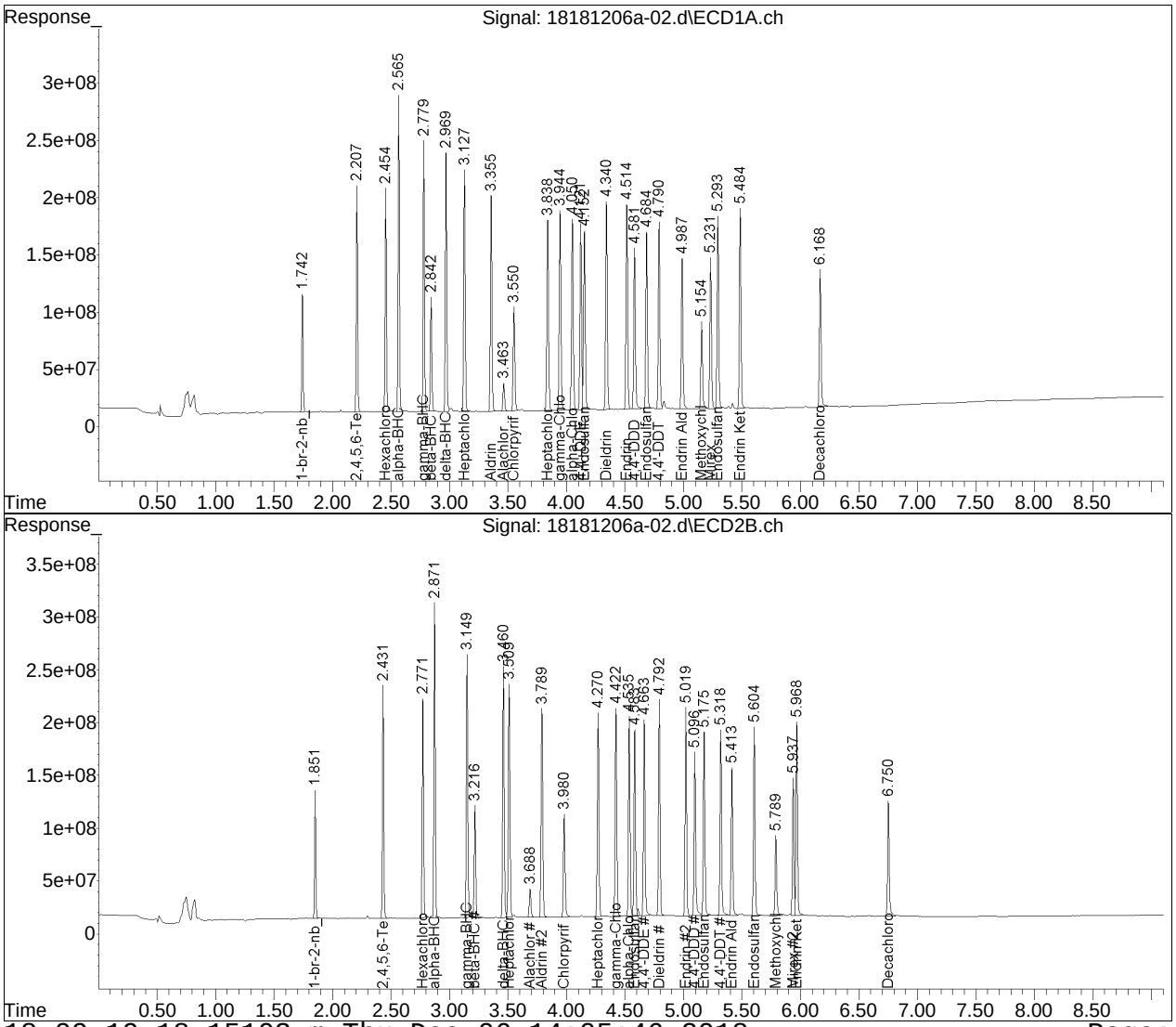
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest18\181206A\
Data File : 18181206a-02.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Dec 2018 8:53 am
Operator : PEST18:amc
Sample : WG1186320-1,42e,,pest icv 8985 (Sig #1); pest icv 8985 (Sig #2)
Misc : WG1186320,ical15103
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 13:54:31 2018
Quant Method : I:\Pest18\181206A\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Wed Dec 05 18:46:40 2018
Response via : Initial Calibration
Integrator: ChemStation

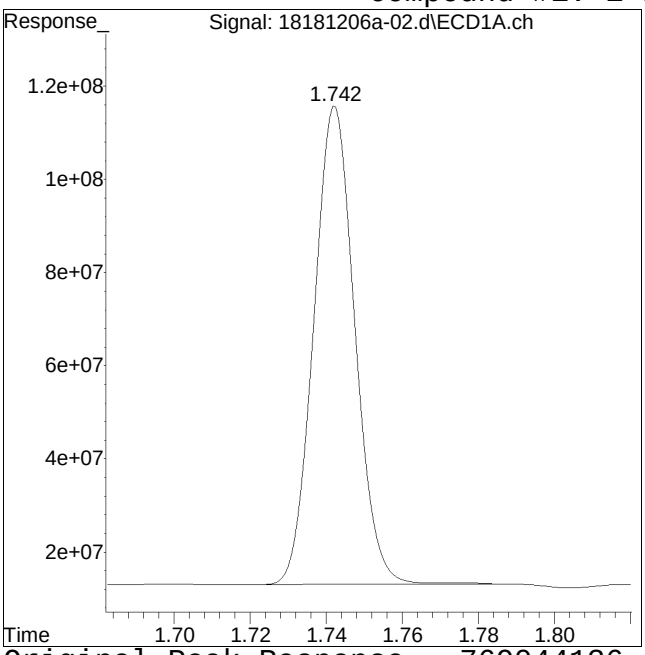
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



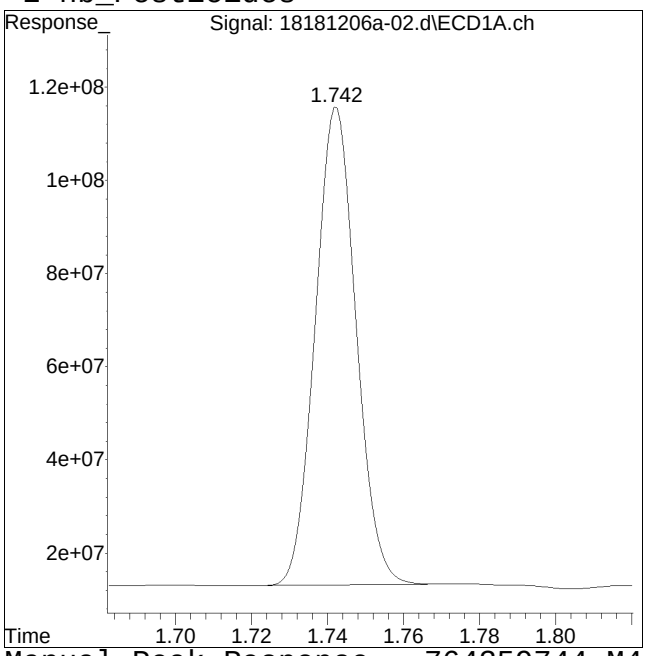
Manual Integration Report

Data Path : I:\Pest18\181206A\ QMethod : pest18_09_19_18_15103.m
Data File : 18181206a-02.d Operator : PEST18:amc
Date Inj'd : 12/6/2018 8:53 am Instrument : Pest 18
Sample : WG1186320-1,42e,,pest icv Quant Date : 12/6/2018 9:23 am

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 769044136



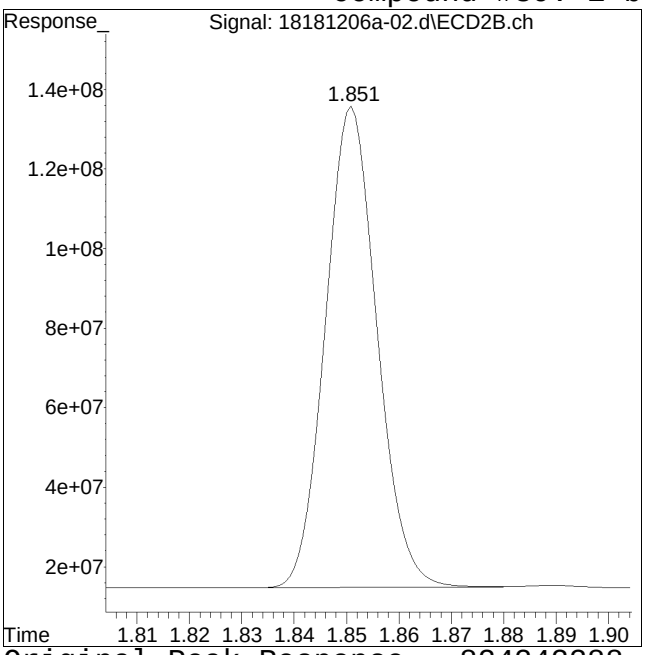
Manual Peak Response = 764359744 M4

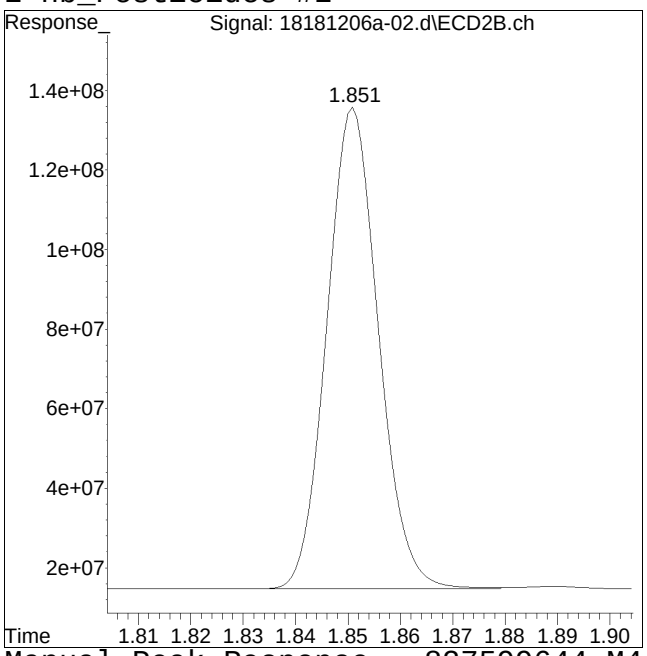
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181206A\ QMethod : pest18_09_19_18_15103.m
Data File : 18181206a-02.d Operator : PEST18:amc
Date Inj'd : 12/6/2018 8:53 am Instrument : Pest 18
Sample : WG1186320-1,42e,,pest icv Quant Date : 12/6/2018 9:23 am

Compound #39: 1-br-2-nb_Pesticides #2



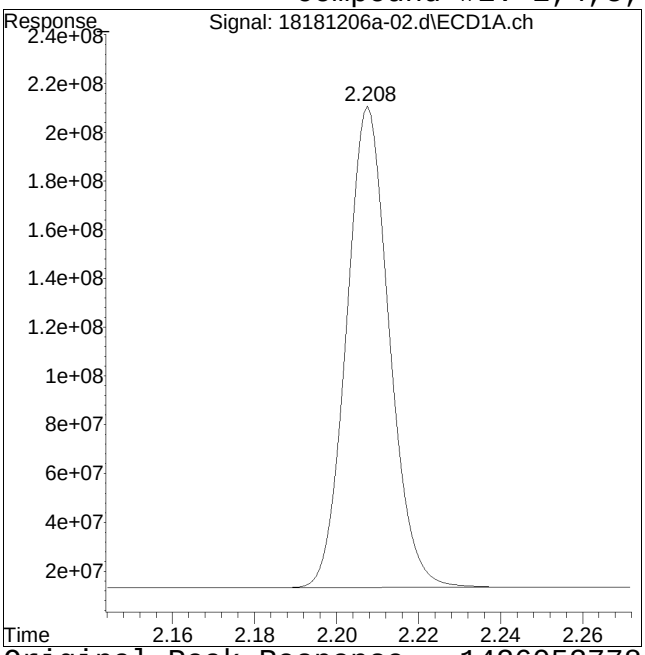


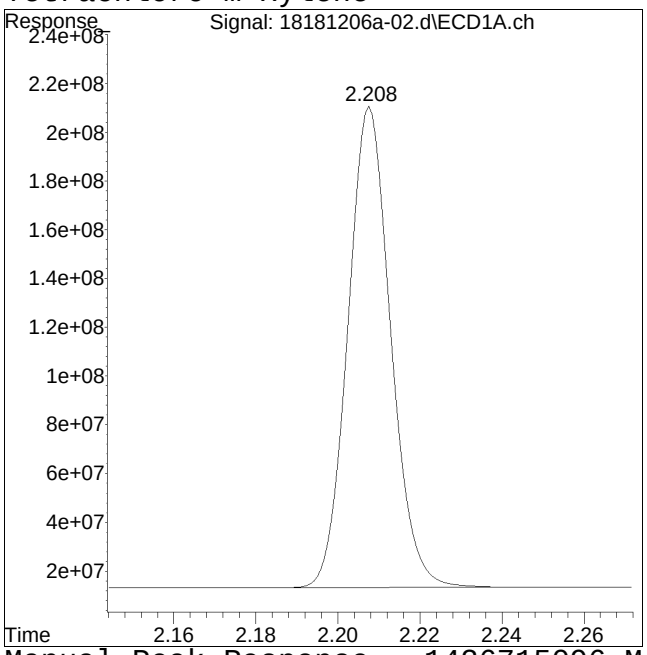
Original Peak Response = 824242388 Manual Peak Response = 827599644 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181206A\ QMethod : pest18_09_19_18_15103.m
Data File : 18181206a-02.d Operator : PEST18:amc
Date Inj'd : 12/6/2018 8:53 am Instrument : Pest 18
Sample : WG1186320-1,42e,,pest icv Quant Date : 12/6/2018 9:23 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



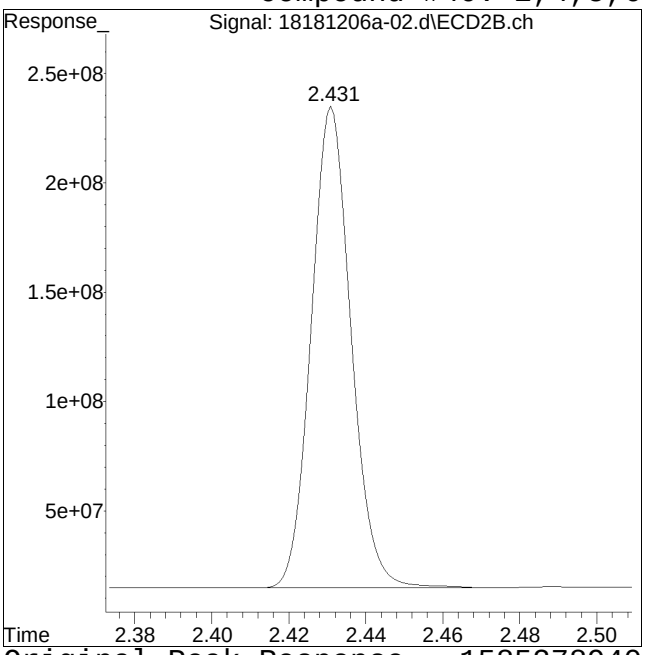


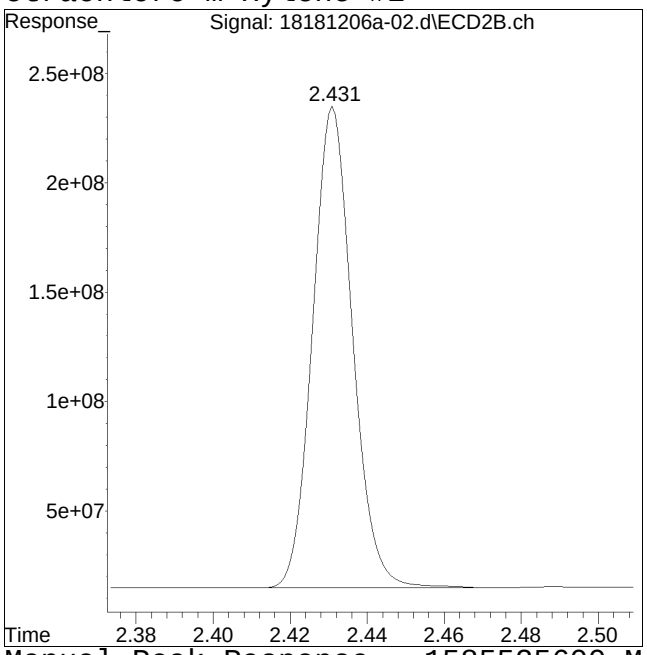
Original Peak Response = 1426053778 Manual Peak Response = 1426715096 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181206A\ QMethod : pest18_09_19_18_15103.m
Data File : 18181206a-02.d Operator : PEST18:amc
Date Inj'd : 12/6/2018 8:53 am Instrument : Pest 18
Sample : WG1186320-1,42e,,pest icv Quant Date : 12/6/2018 9:23 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



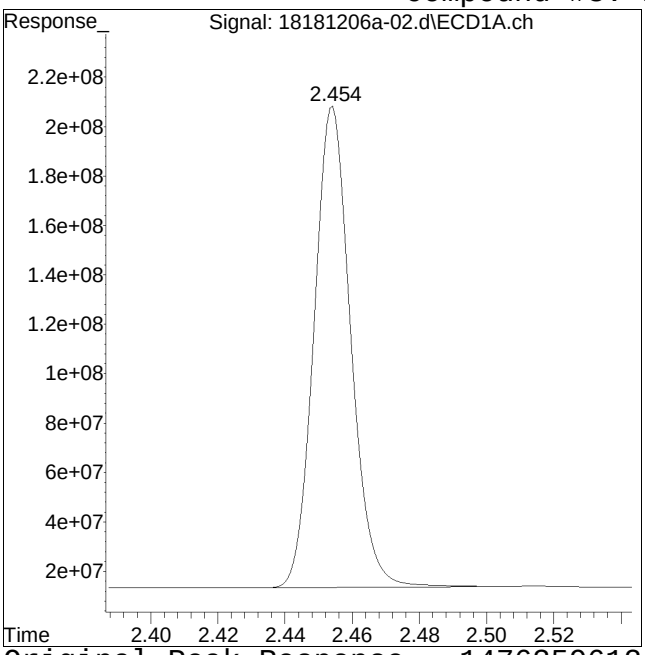


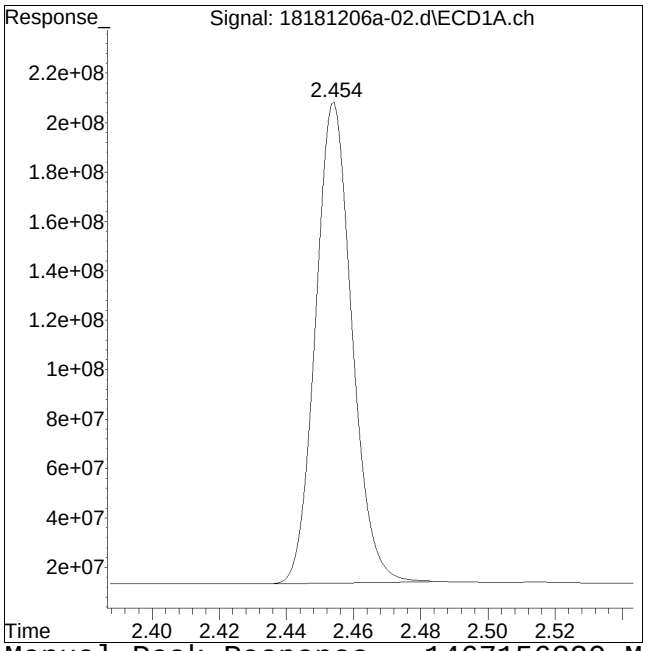
Original Peak Response = 1585278940 Manual Peak Response = 1585525600 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181206A\ QMethod : pest18_09_19_18_15103.m
Data File : 18181206a-02.d Operator : PEST18:amc
Date Inj'd : 12/6/2018 8:53 am Instrument : Pest 18
Sample : WG1186320-1,42e,,pest icv Quant Date : 12/6/2018 9:23 am

Compound #3: Hexachlorobenzene



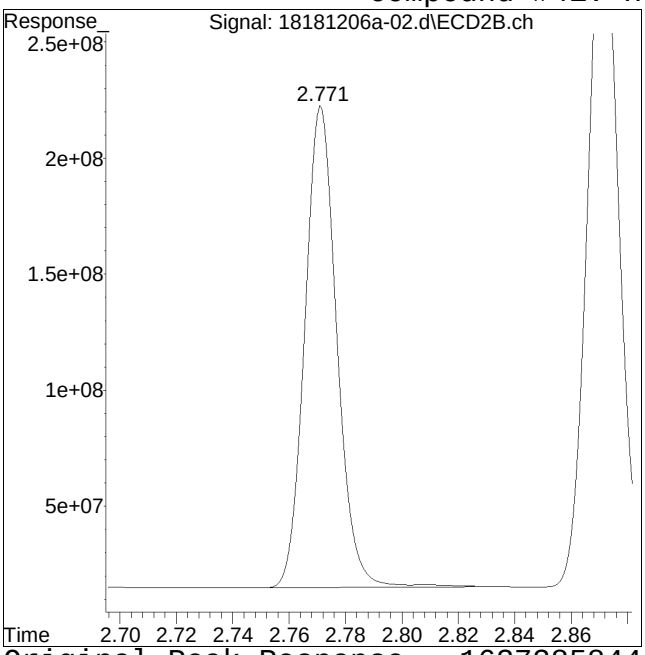


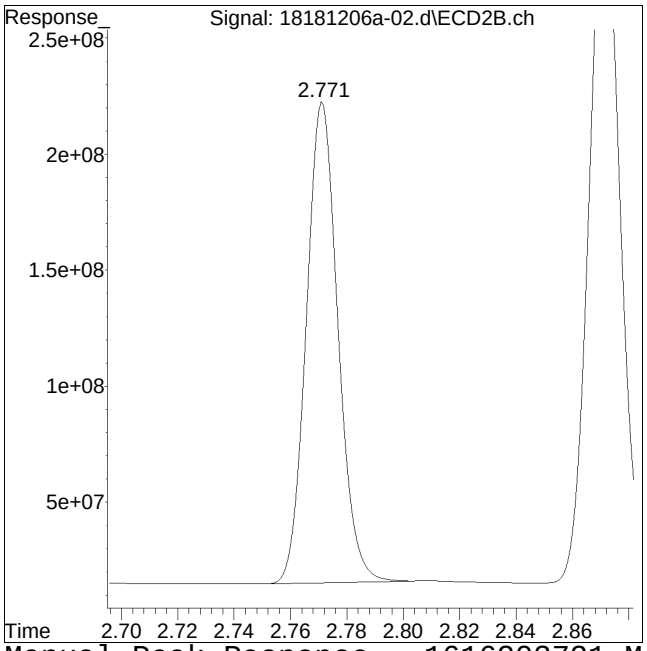
Original Peak Response = 1476359612 Manual Peak Response = 1467156330 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181206A\ QMethod : pest18_09_19_18_15103.m
Data File : 18181206a-02.d Operator : PEST18:amc
Date Inj'd : 12/6/2018 8:53 am Instrument : Pest 18
Sample : WG1186320-1,42e,,pest icv Quant Date : 12/6/2018 9:23 am

Compound #41: Hexachlorobenzene #2



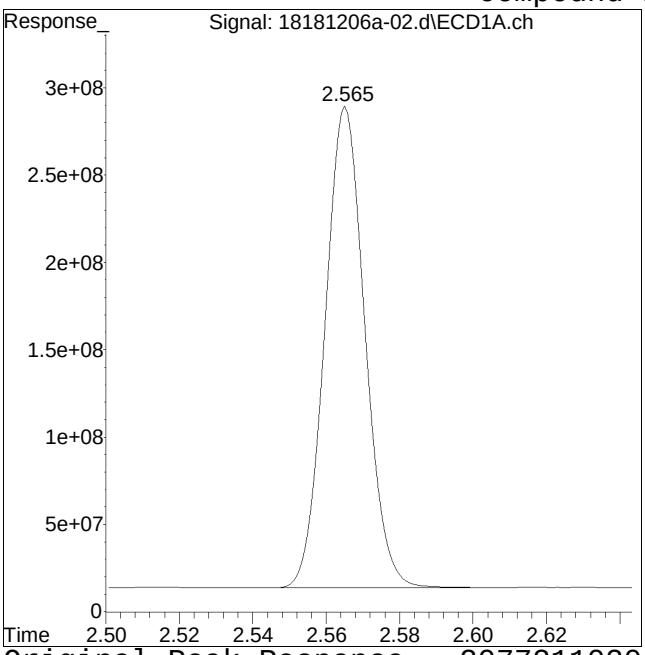


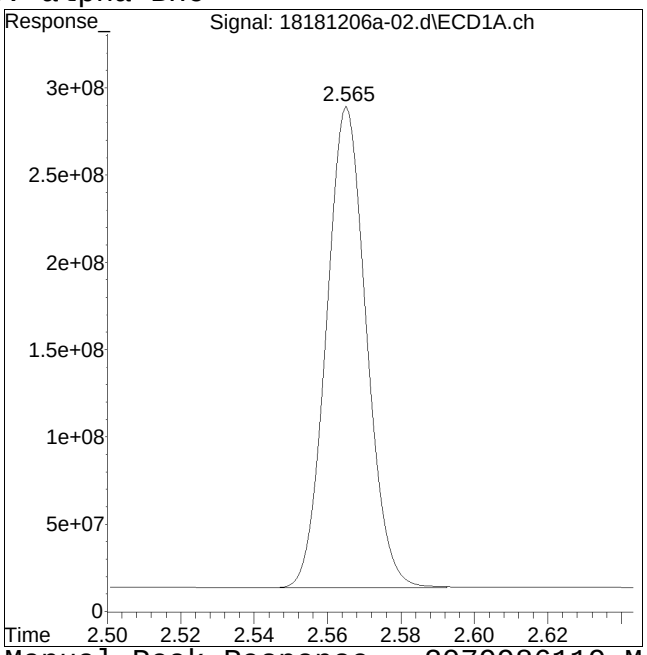
Original Peak Response = 1637385844 Manual Peak Response = 1616203721 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181206A\ QMethod : pest18_09_19_18_15103.m
Data File : 18181206a-02.d Operator : PEST18:amc
Date Inj'd : 12/6/2018 8:53 am Instrument : Pest 18
Sample : WG1186320-1,42e,,pest icv Quant Date : 12/6/2018 9:23 am

Compound #4: alpha-BHC



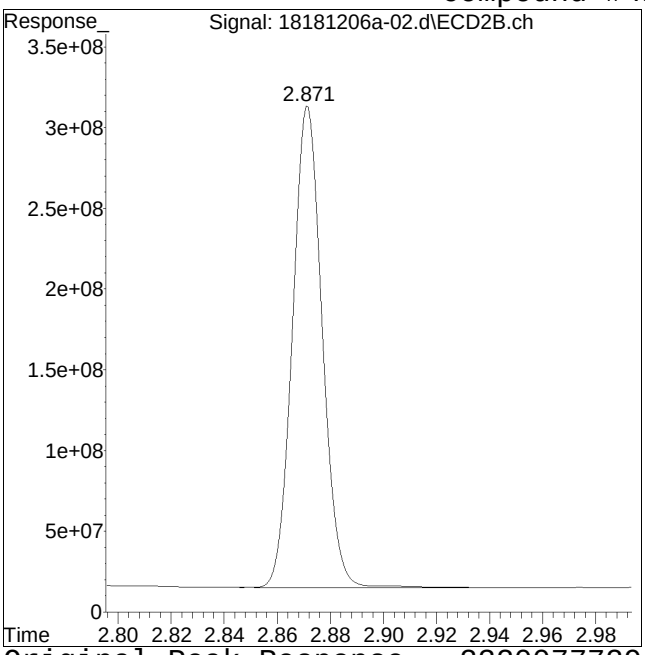


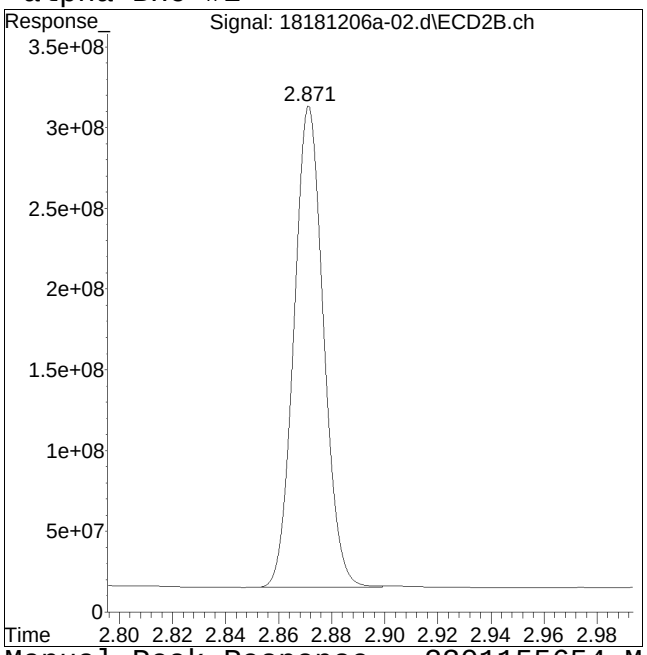
Original Peak Response = 2077211020 Manual Peak Response = 2079986119 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181206A\ QMethod : pest18_09_19_18_15103.m
Data File : 18181206a-02.d Operator : PEST18:amc
Date Inj'd : 12/6/2018 8:53 am Instrument : Pest 18
Sample : WG1186320-1,42e,,pest icv Quant Date : 12/6/2018 9:23 am

Compound #42: alpha-BHC #2



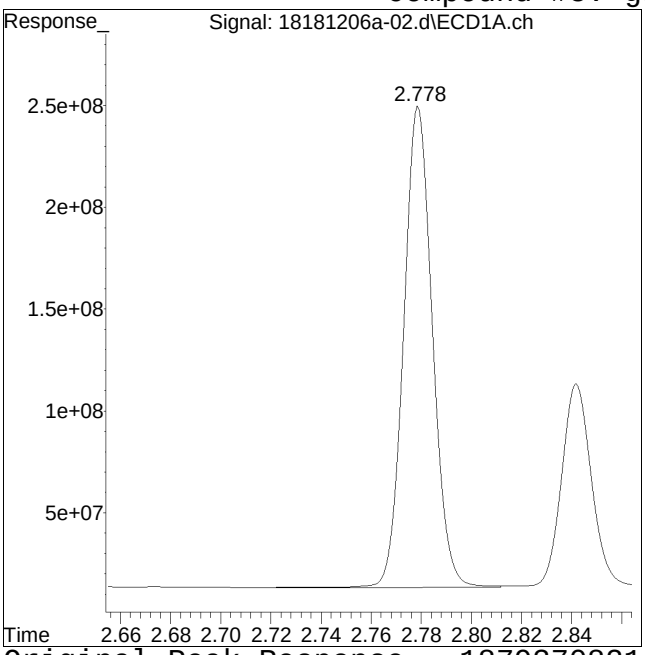


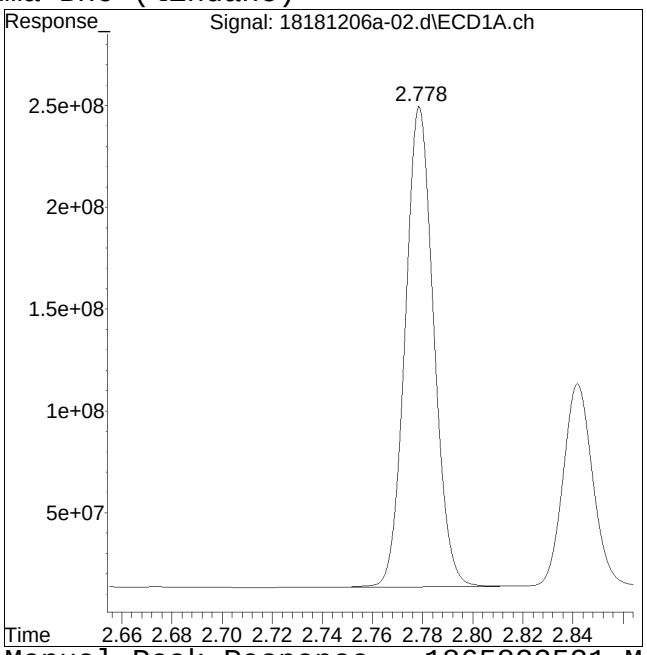
Original Peak Response = 2320077729 Manual Peak Response = 2301155654 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181206A\ QMethod : pest18_09_19_18_15103.m
Data File : 18181206a-02.d Operator : PEST18:amc
Date Inj'd : 12/6/2018 8:53 am Instrument : Pest 18
Sample : WG1186320-1,42e,,pest icv Quant Date : 12/6/2018 9:23 am

Compound #5: gamma-BHC (lindane)



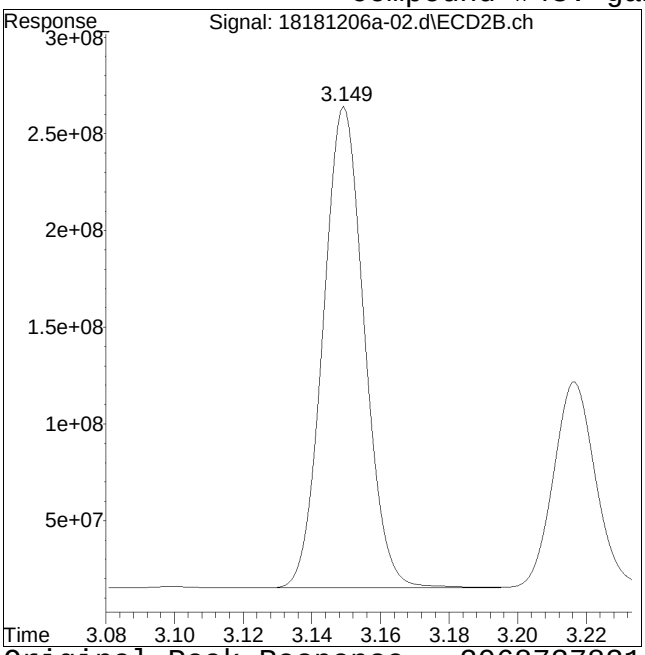


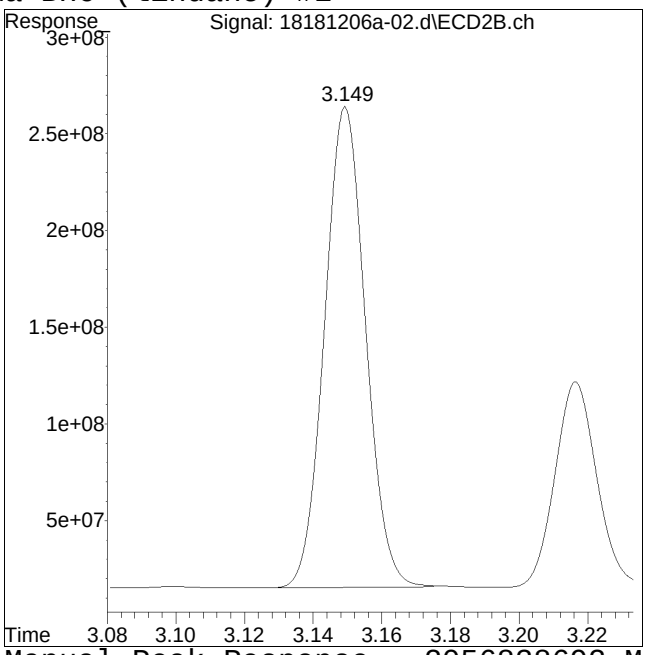
Original Peak Response = 1879370821 Manual Peak Response = 1865822521 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181206A\ QMethod : pest18_09_19_18_15103.m
Data File : 18181206a-02.d Operator : PEST18:amc
Date Inj'd : 12/6/2018 8:53 am Instrument : Pest 18
Sample : WG1186320-1,42e,,pest icv Quant Date : 12/6/2018 9:23 am

Compound #43: gamma-BHC (lindane) #2



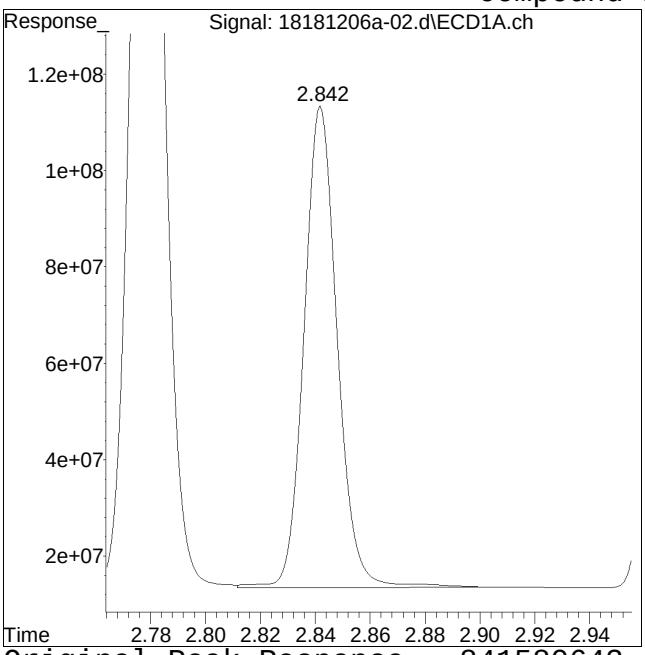


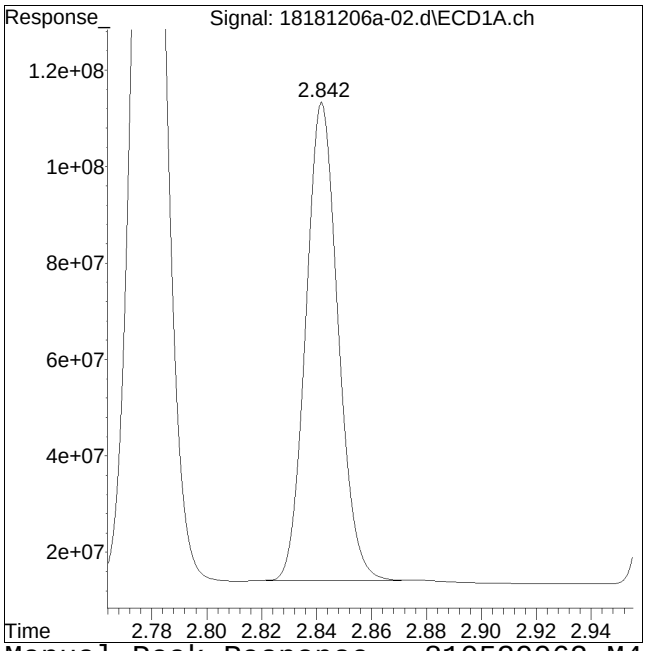
Original Peak Response = 2068737831 Manual Peak Response = 2056838692 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181206A\ QMethod : pest18_09_19_18_15103.m
Data File : 18181206a-02.d Operator : PEST18:amc
Date Inj'd : 12/6/2018 8:53 am Instrument : Pest 18
Sample : WG1186320-1,42e,,pest icv Quant Date : 12/6/2018 9:23 am

Compound #6: beta-BHC



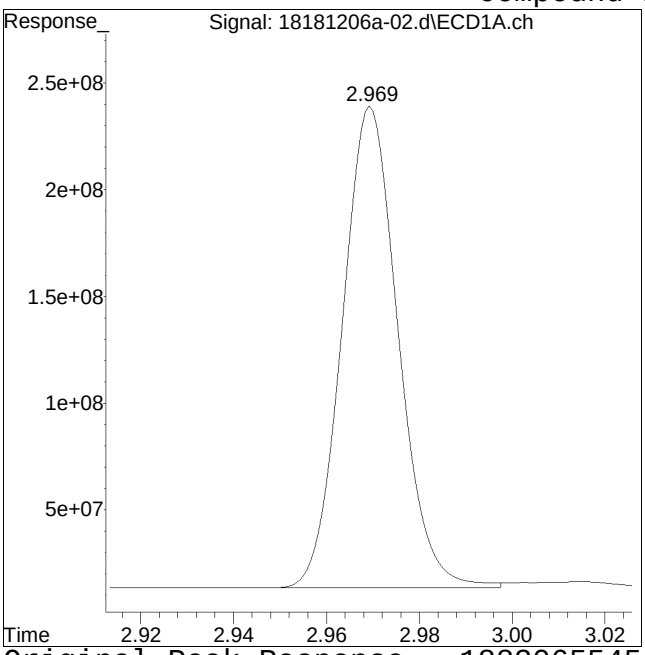


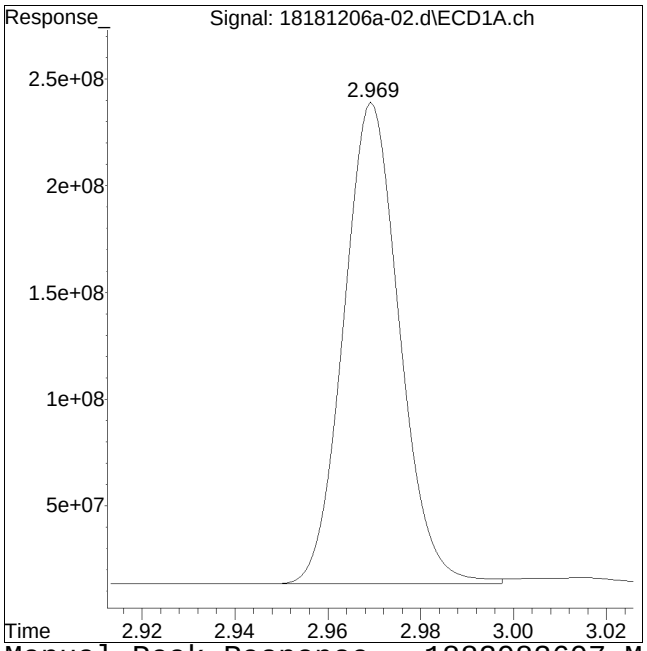
Original Peak Response = 841580643 Manual Peak Response = 810530062 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181206A\ QMethod : pest18_09_19_18_15103.m
Data File : 18181206a-02.d Operator : PEST18:amc
Date Inj'd : 12/6/2018 8:53 am Instrument : Pest 18
Sample : WG1186320-1,42e,,pest icv Quant Date : 12/6/2018 9:23 am

Compound #7: delta-BHC



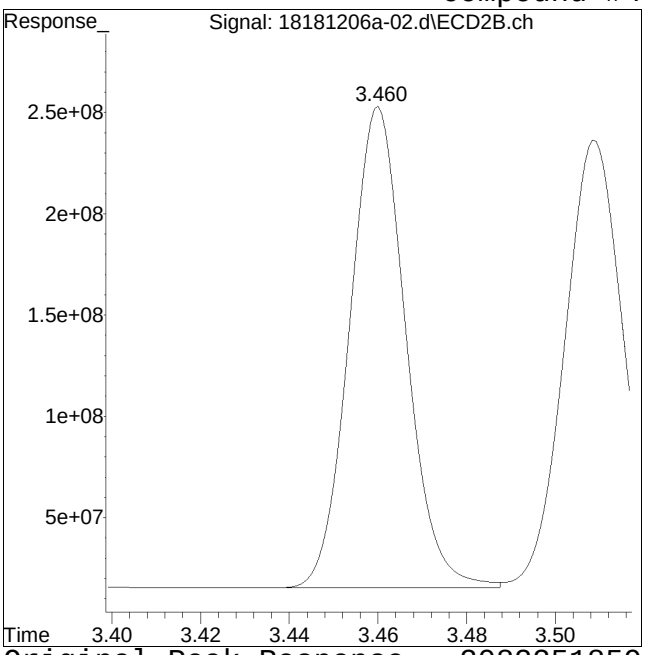


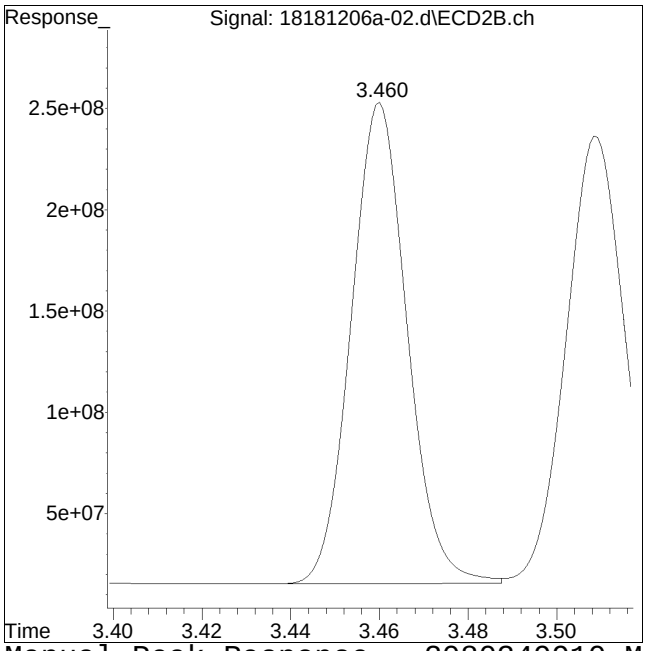
Original Peak Response = 1883065545 Manual Peak Response = 1883083607 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181206A\ QMethod : pest18_09_19_18_15103.m
Data File : 18181206a-02.d Operator : PEST18:amc
Date Inj'd : 12/6/2018 8:53 am Instrument : Pest 18
Sample : WG1186320-1,42e,,pest icv Quant Date : 12/6/2018 9:23 am

Compound #45: delta-BHC #2



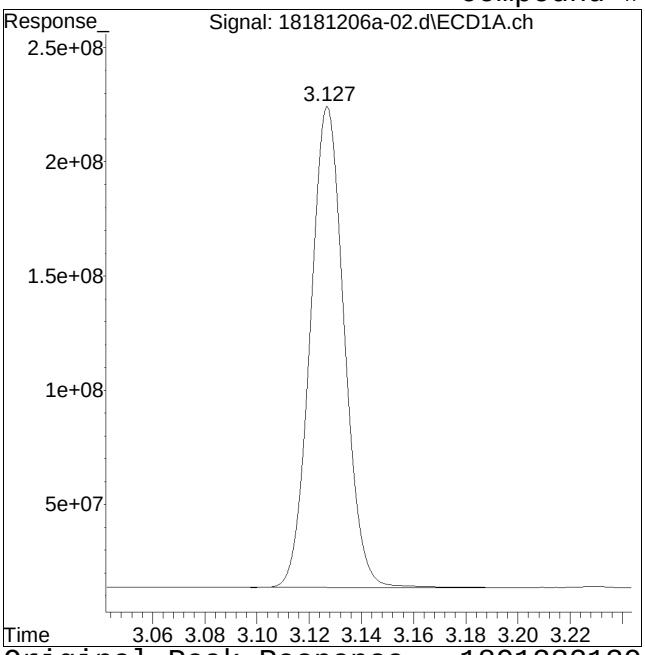


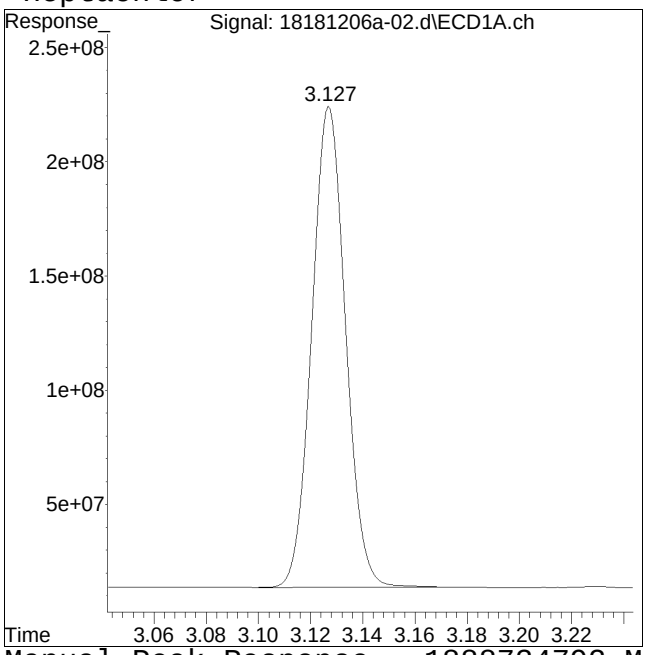
Original Peak Response = 2082251859 Manual Peak Response = 2080349910 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181206A\ QMethod : pest18_09_19_18_15103.m
Data File : 18181206a-02.d Operator : PEST18:amc
Date Inj'd : 12/6/2018 8:53 am Instrument : Pest 18
Sample : WG1186320-1,42e,,pest icv Quant Date : 12/6/2018 9:23 am

Compound #8: Heptachlor



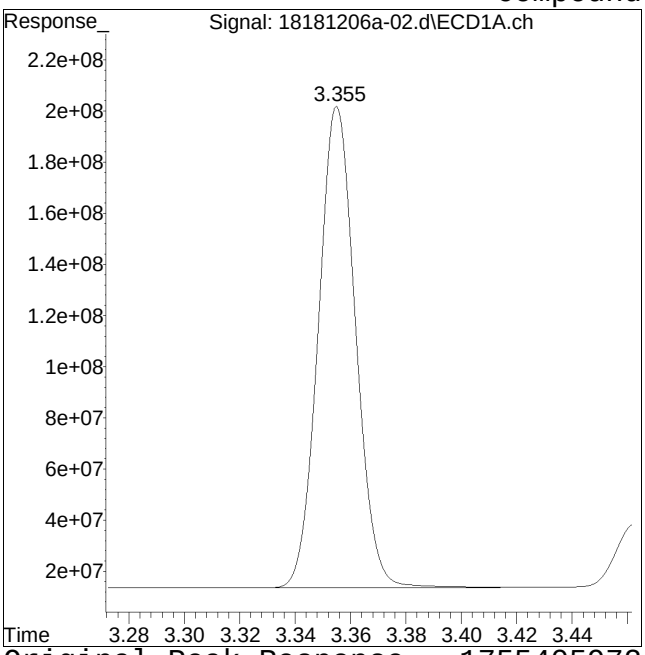


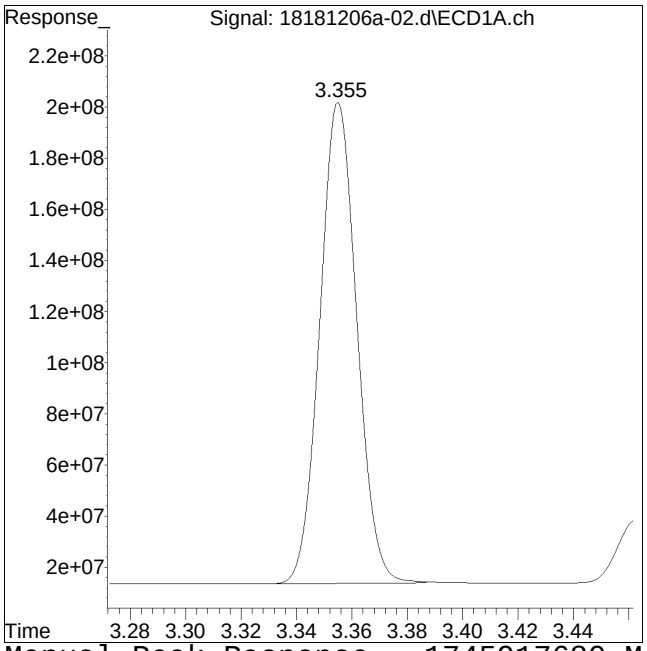
Original Peak Response = 1891232139 Manual Peak Response = 1888734792 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181206A\ QMethod : pest18_09_19_18_15103.m
Data File : 18181206a-02.d Operator : PEST18:amc
Date Inj'd : 12/6/2018 8:53 am Instrument : Pest 18
Sample : WG1186320-1,42e,,pest icv Quant Date : 12/6/2018 9:23 am

Compound #9: Aldrin



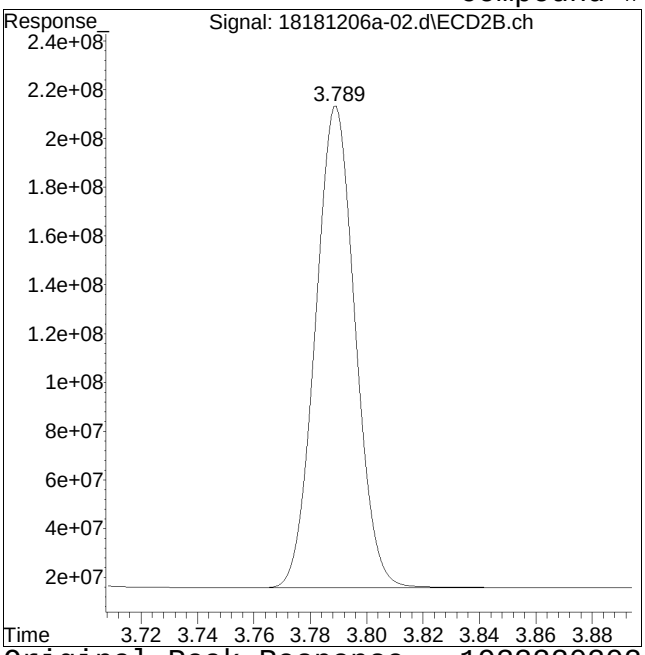


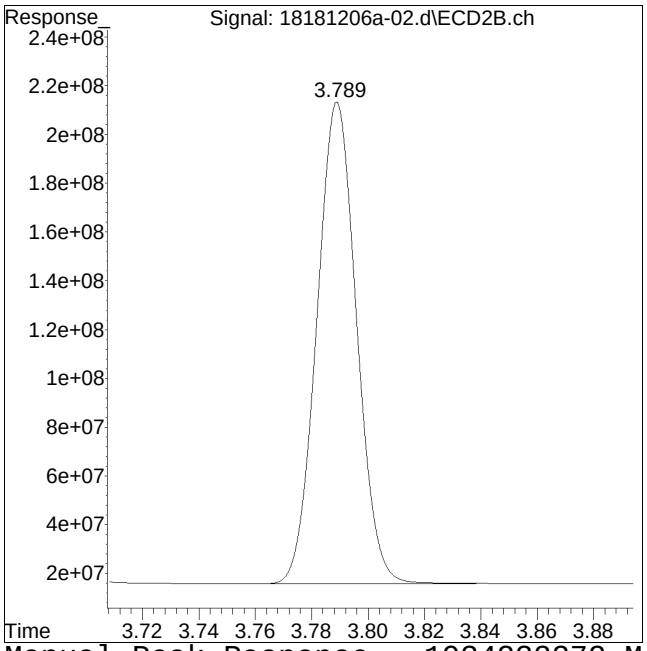
Original Peak Response = 1755405972 Manual Peak Response = 1745917680 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181206A\ QMethod : pest18_09_19_18_15103.m
Data File : 18181206a-02.d Operator : PEST18:amc
Date Inj'd : 12/6/2018 8:53 am Instrument : Pest 18
Sample : WG1186320-1,42e,,pest icv Quant Date : 12/6/2018 9:23 am

Compound #47: Aldrin #2



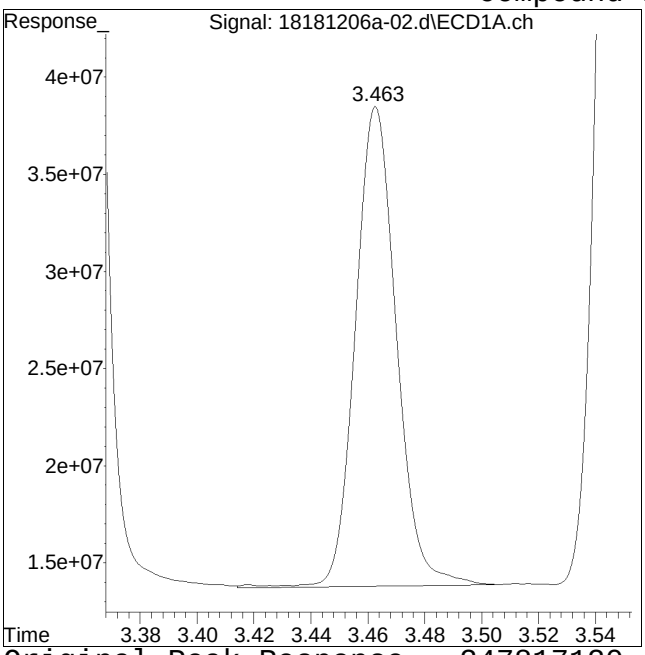


Original Peak Response = 1933320202 Manual Peak Response = 1934232272 M4
M4 = Poor automated baseline construction.

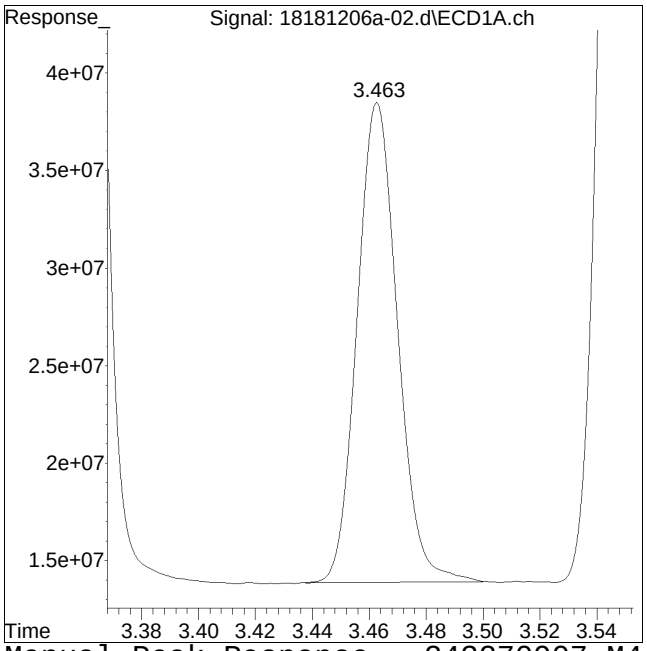
Manual Integration Report

Data Path : I:\Pest18\181206A\ QMethod : pest18_09_19_18_15103.m
Data File : 18181206a-02.d Operator : PEST18:amc
Date Inj'd : 12/6/2018 8:53 am Instrument : Pest 18
Sample : WG1186320-1,42e,,pest icv Quant Date : 12/6/2018 9:23 am

Compound #10: Alachlor



Original Peak Response = 247817120



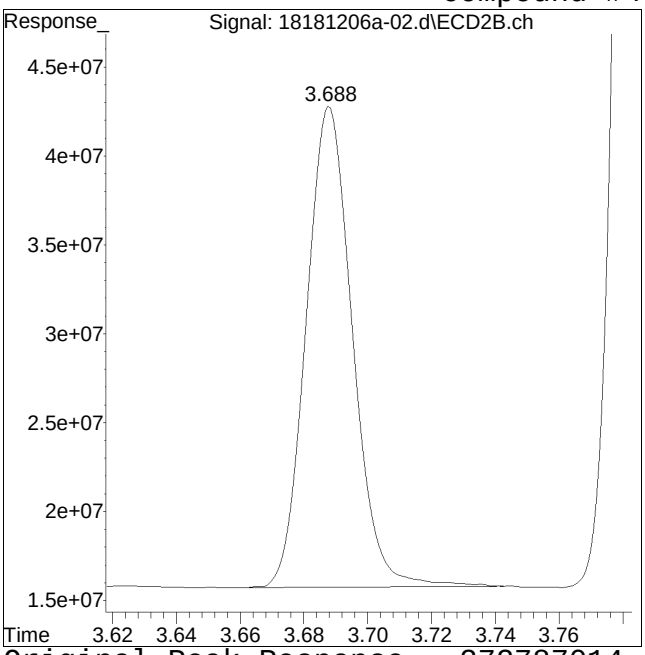
Manual Peak Response = 243270907 M4

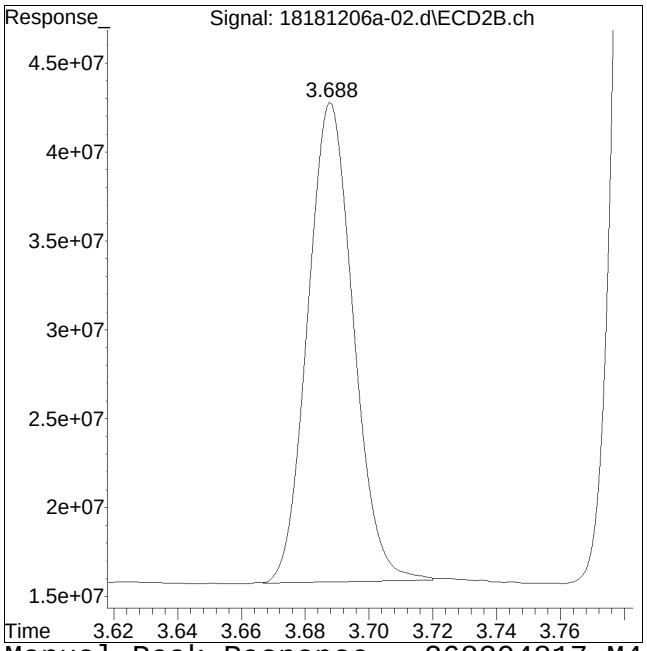
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181206A\ QMethod : pest18_09_19_18_15103.m
Data File : 18181206a-02.d Operator : PEST18:amc
Date Inj'd : 12/6/2018 8:53 am Instrument : Pest 18
Sample : WG1186320-1,42e,,pest icv Quant Date : 12/6/2018 9:23 am

Compound #48: Alachlor #2



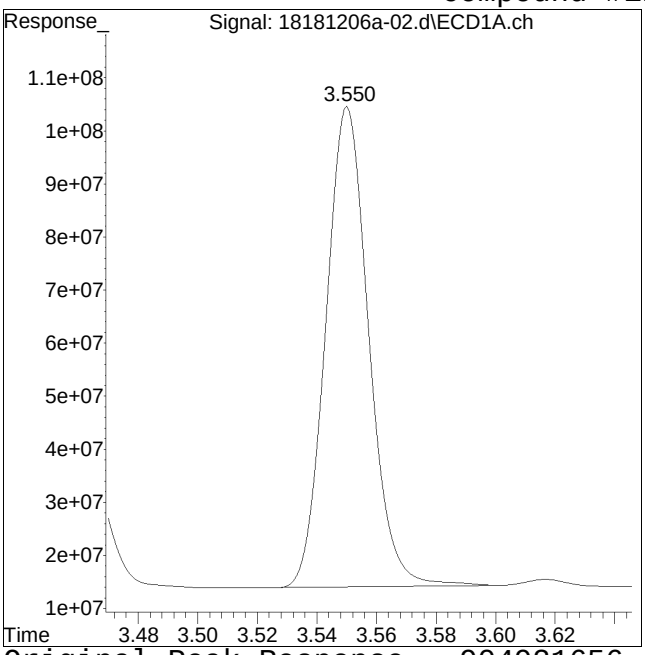


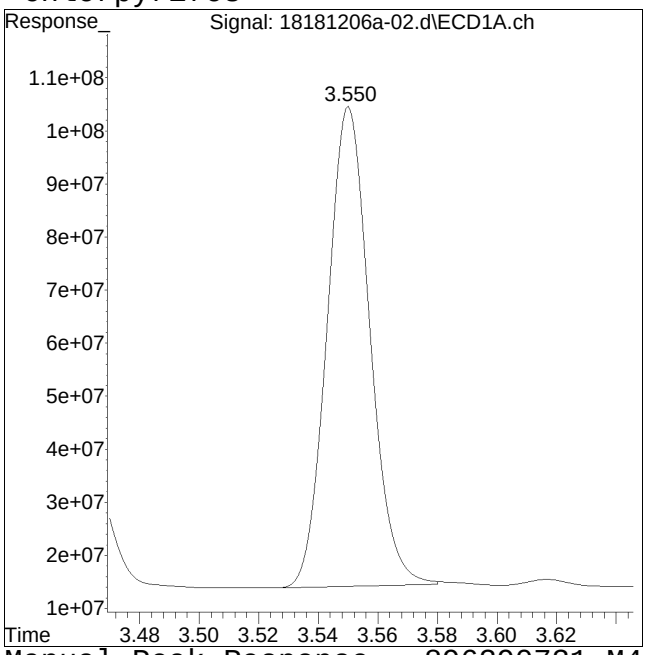
Original Peak Response = 272787014 Manual Peak Response = 268304817 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181206A\ QMethod : pest18_09_19_18_15103.m
Data File : 18181206a-02.d Operator : PEST18:amc
Date Inj'd : 12/6/2018 8:53 am Instrument : Pest 18
Sample : WG1186320-1,42e,,pest icv Quant Date : 12/6/2018 9:23 am

Compound #11: Chlorpyrifos



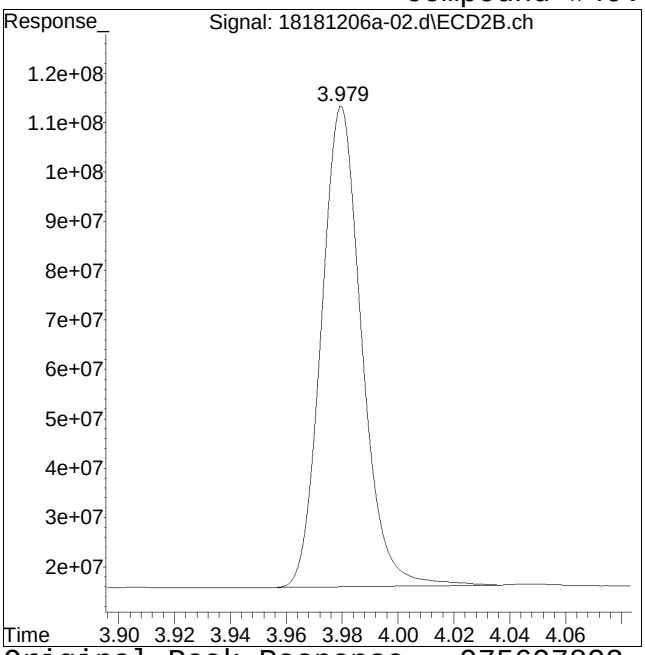


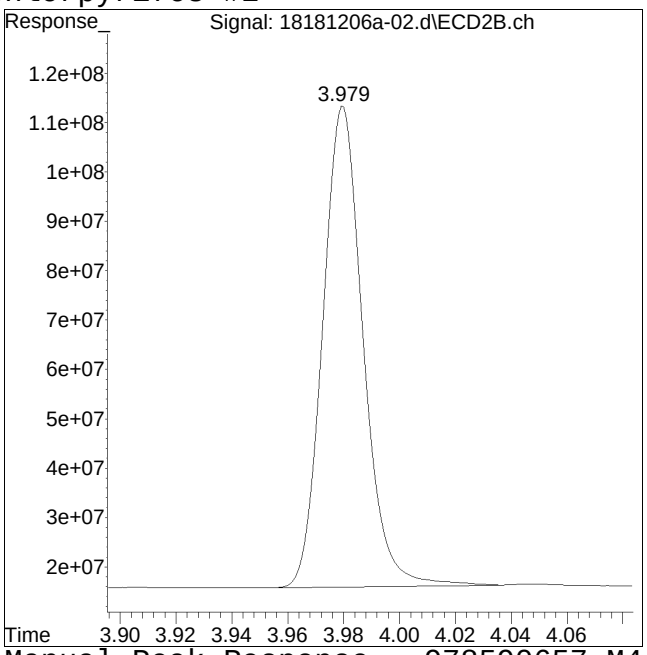
Original Peak Response = 904921656 Manual Peak Response = 896390731 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181206A\ QMethod : pest18_09_19_18_15103.m
Data File : 18181206a-02.d Operator : PEST18:amc
Date Inj'd : 12/6/2018 8:53 am Instrument : Pest 18
Sample : WG1186320-1,42e,,pest icv Quant Date : 12/6/2018 9:23 am

Compound #49: Chlorpyrifos #2



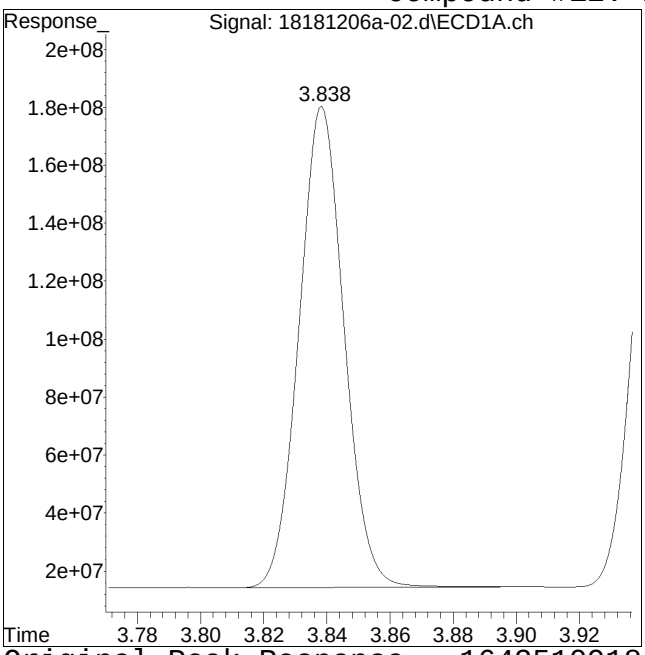


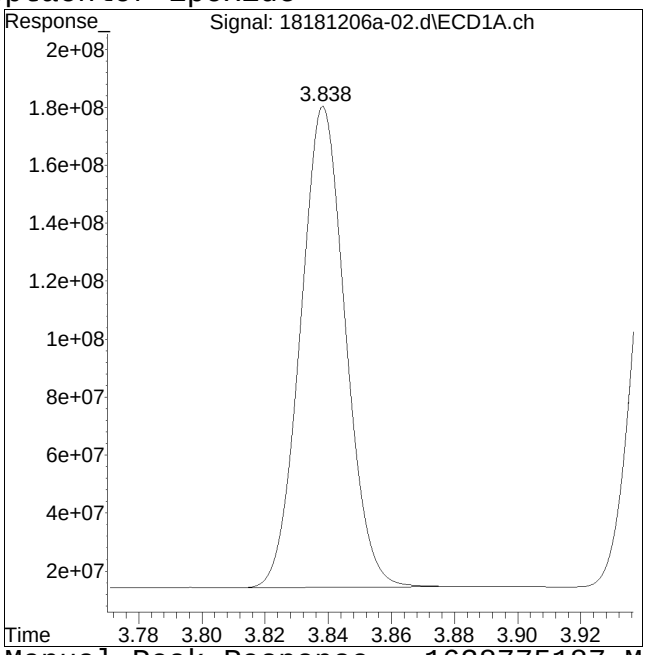
Original Peak Response = 975697822 Manual Peak Response = 978590657 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181206A\ QMethod : pest18_09_19_18_15103.m
Data File : 18181206a-02.d Operator : PEST18:amc
Date Inj'd : 12/6/2018 8:53 am Instrument : Pest 18
Sample : WG1186320-1,42e,,pest icv Quant Date : 12/6/2018 9:23 am

Compound #12: Heptachlor Epoxide



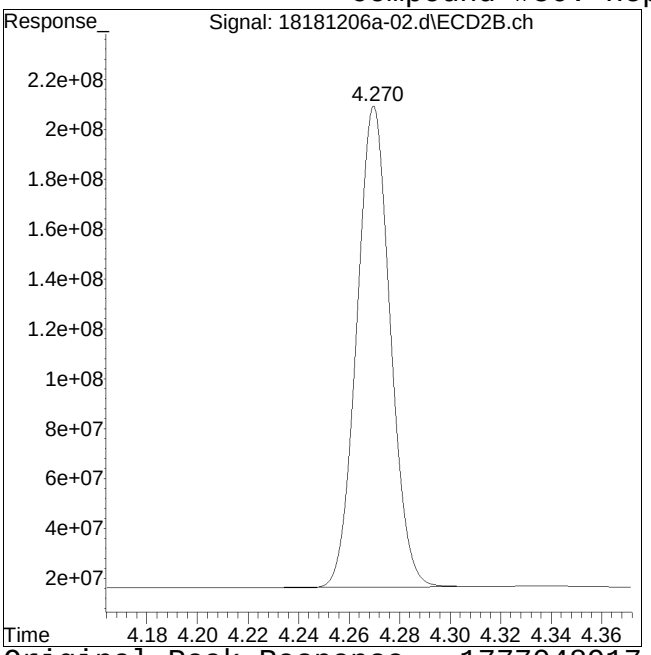


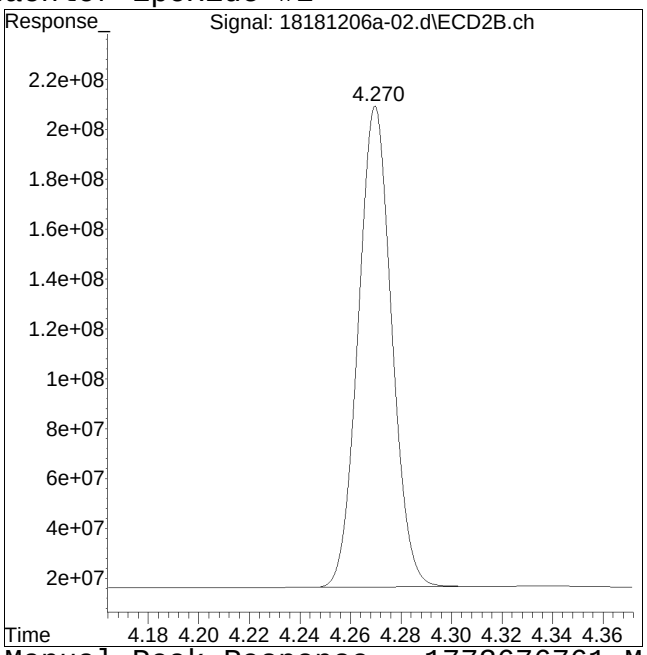
Original Peak Response = 1642510918 Manual Peak Response = 1638775187 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181206A\ QMethod : pest18_09_19_18_15103.m
Data File : 18181206a-02.d Operator : PEST18:amc
Date Inj'd : 12/6/2018 8:53 am Instrument : Pest 18
Sample : WG1186320-1,42e,,pest icv Quant Date : 12/6/2018 9:23 am

Compound #50: Heptachlor Epoxide #2



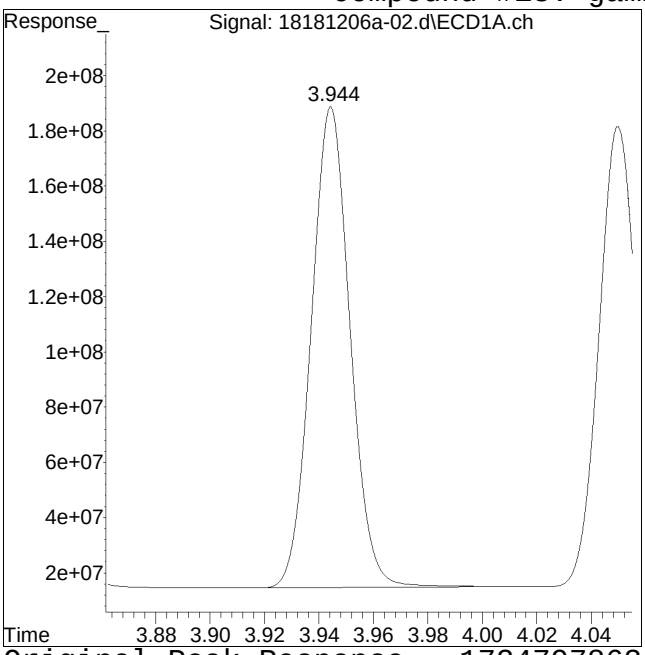


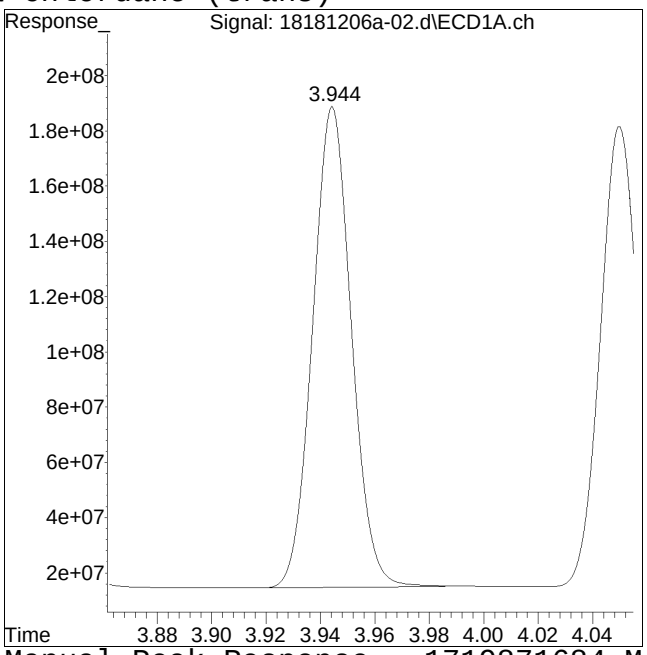
Original Peak Response = 1777048917 Manual Peak Response = 1773676761 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181206A\ QMethod : pest18_09_19_18_15103.m
Data File : 18181206a-02.d Operator : PEST18:amc
Date Inj'd : 12/6/2018 8:53 am Instrument : Pest 18
Sample : WG1186320-1,42e,,pest icv Quant Date : 12/6/2018 9:23 am

Compound #13: gamma-Chlordane (trans)



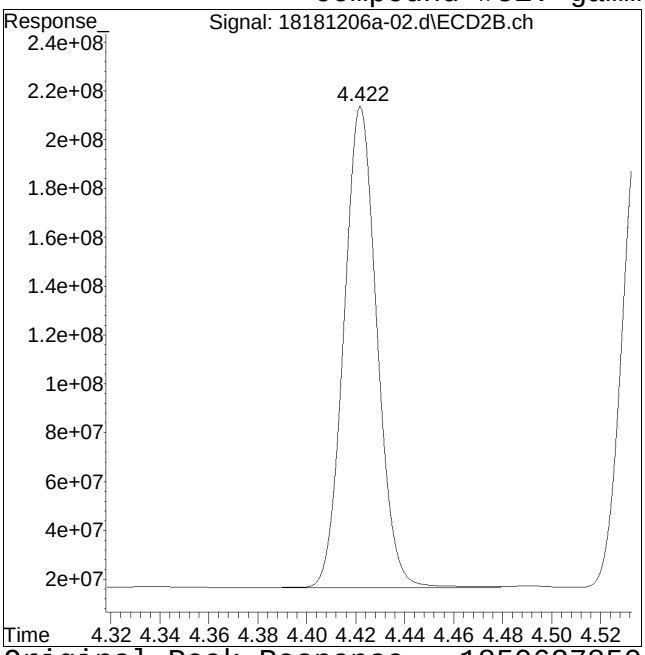


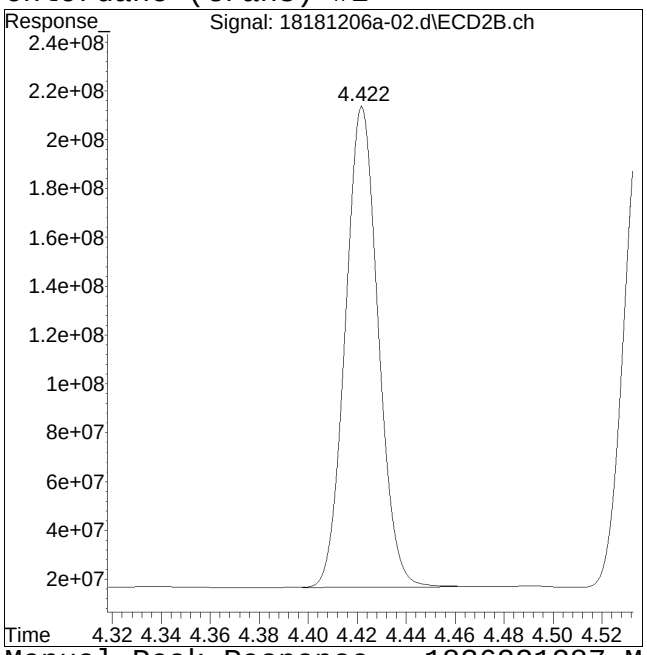
Original Peak Response = 1724797863 Manual Peak Response = 1719871684 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181206A\ QMethod : pest18_09_19_18_15103.m
Data File : 18181206a-02.d Operator : PEST18:amc
Date Inj'd : 12/6/2018 8:53 am Instrument : Pest 18
Sample : WG1186320-1,42e,,pest icv Quant Date : 12/6/2018 9:23 am

Compound #51: gamma-Chlordane (trans) #2



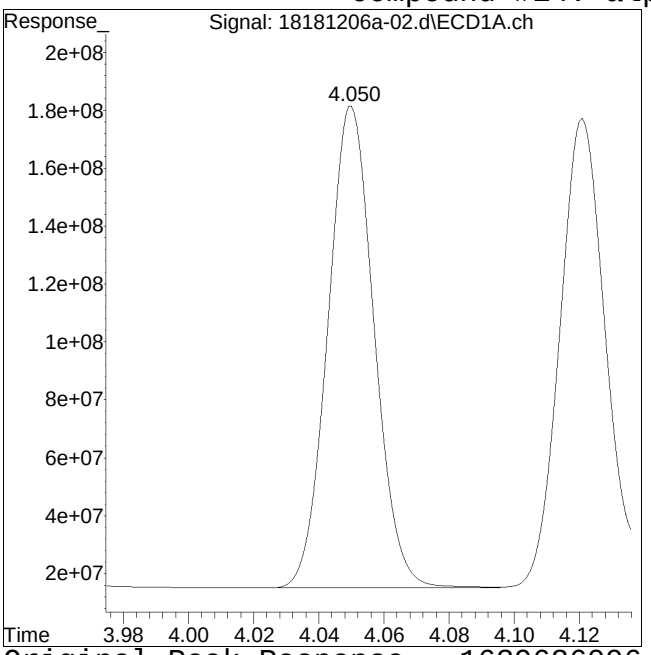


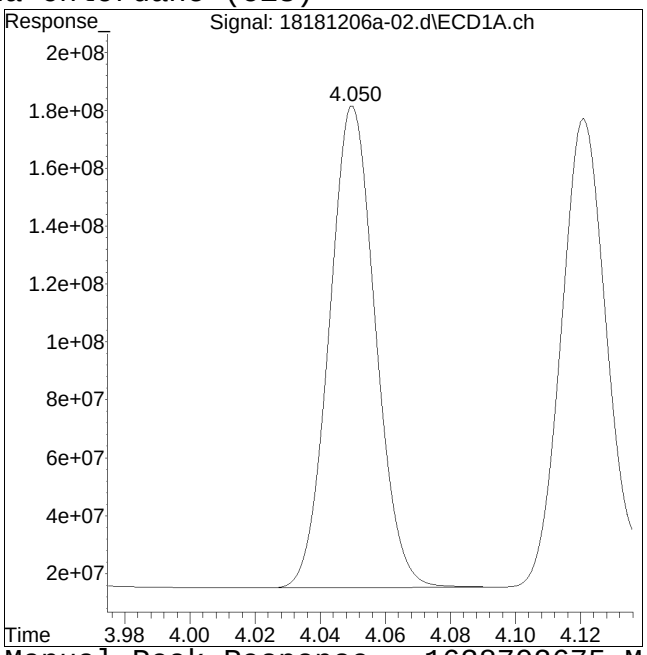
Original Peak Response = 1850627850 Manual Peak Response = 1836221287 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181206A\ QMethod : pest18_09_19_18_15103.m
Data File : 18181206a-02.d Operator : PEST18:amc
Date Inj'd : 12/6/2018 8:53 am Instrument : Pest 18
Sample : WG1186320-1,42e,,pest icv Quant Date : 12/6/2018 9:23 am

Compound #14: alpha-Chlordane (cis)



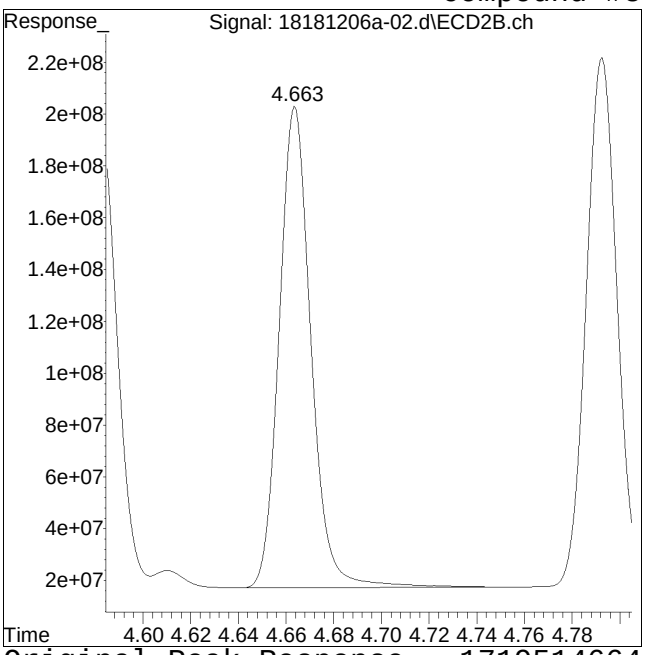


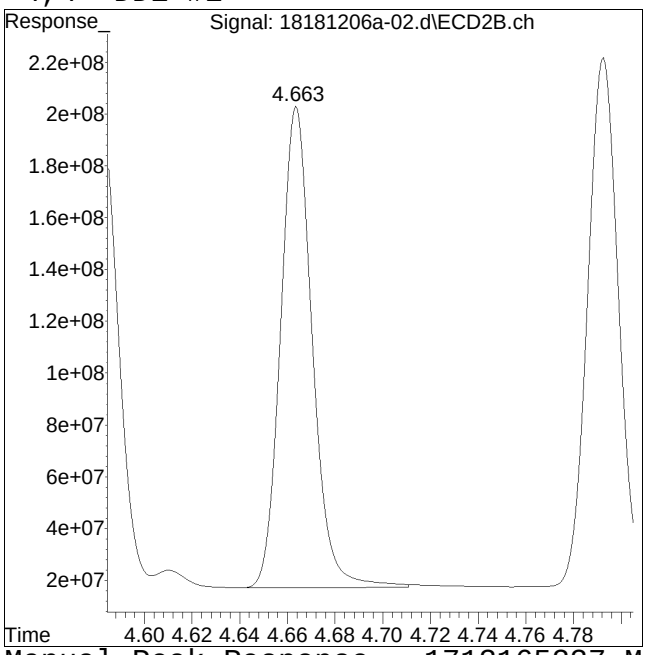
Original Peak Response = 1639626096 Manual Peak Response = 1638702675 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181206A\ QMethod : pest18_09_19_18_15103.m
Data File : 18181206a-02.d Operator : PEST18:amc
Date Inj'd : 12/6/2018 8:53 am Instrument : Pest 18
Sample : WG1186320-1,42e,,pest icv Quant Date : 12/6/2018 9:23 am

Compound #53: 4,4'-DDE #2



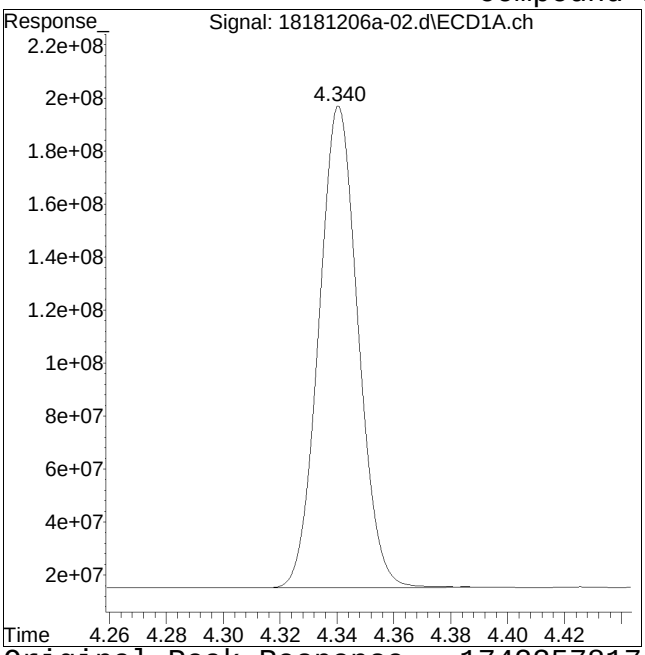


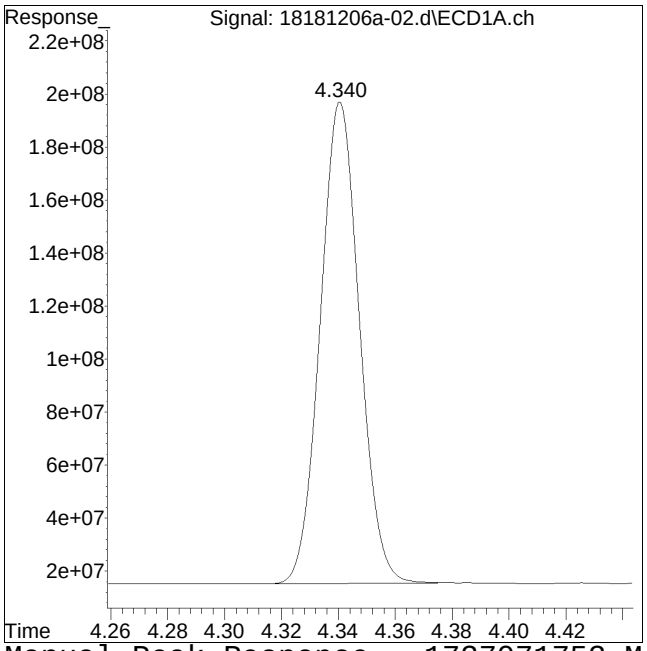
Original Peak Response = 1719514664 Manual Peak Response = 1713165237 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181206A\ QMethod : pest18_09_19_18_15103.m
Data File : 18181206a-02.d Operator : PEST18:amc
Date Inj'd : 12/6/2018 8:53 am Instrument : Pest 18
Sample : WG1186320-1,42e,,pest icv Quant Date : 12/6/2018 9:23 am

Compound #17: Dieldrin



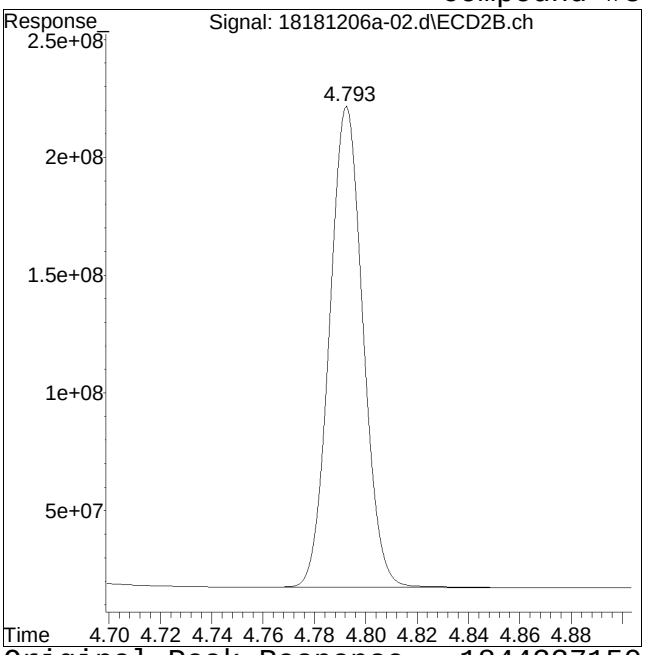


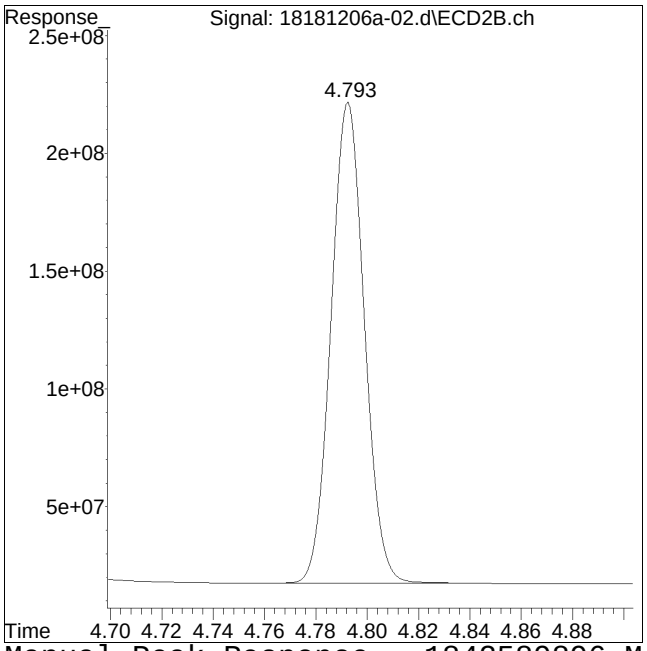
Original Peak Response = 1742357817 Manual Peak Response = 1737071753 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181206A\ QMethod : pest18_09_19_18_15103.m
Data File : 18181206a-02.d Operator : PEST18:amc
Date Inj'd : 12/6/2018 8:53 am Instrument : Pest 18
Sample : WG1186320-1,42e,,pest icv Quant Date : 12/6/2018 9:23 am

Compound #55: Dieldrin #2



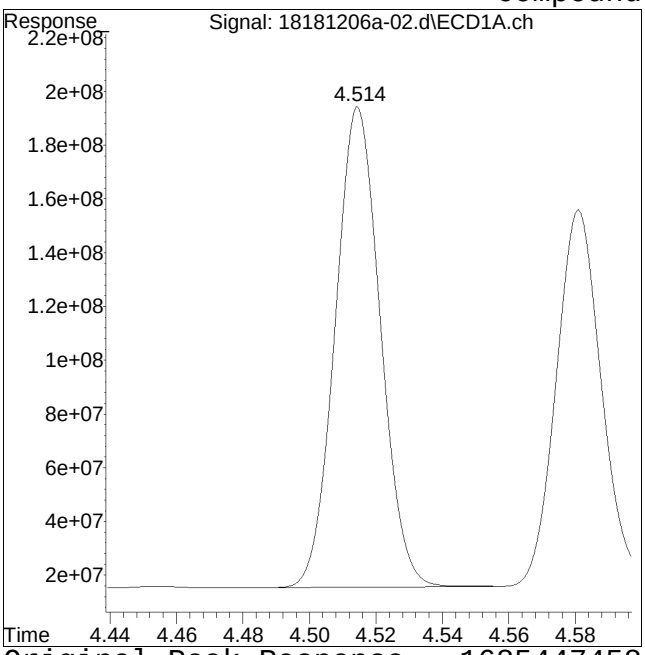


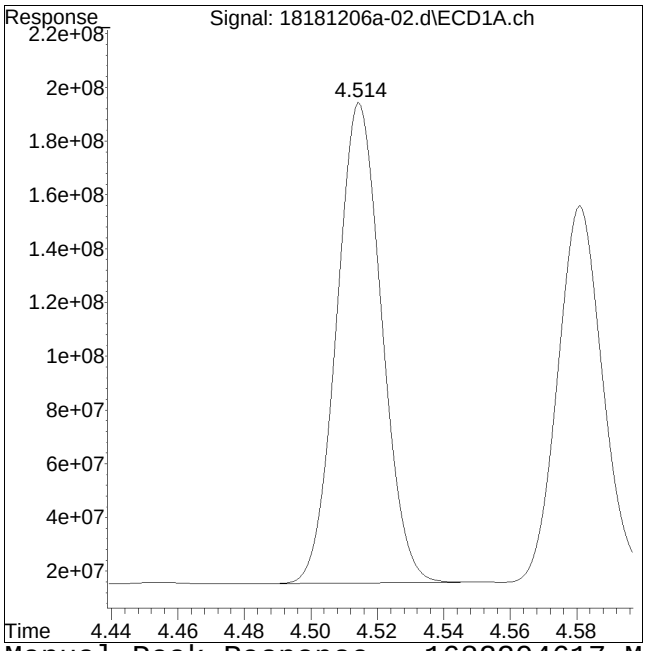
Original Peak Response = 1844337150 Manual Peak Response = 1842589896 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181206A\ QMethod : pest18_09_19_18_15103.m
Data File : 18181206a-02.d Operator : PEST18:amc
Date Inj'd : 12/6/2018 8:53 am Instrument : Pest 18
Sample : WG1186320-1,42e,,pest icv Quant Date : 12/6/2018 9:23 am

Compound #18: Endrin



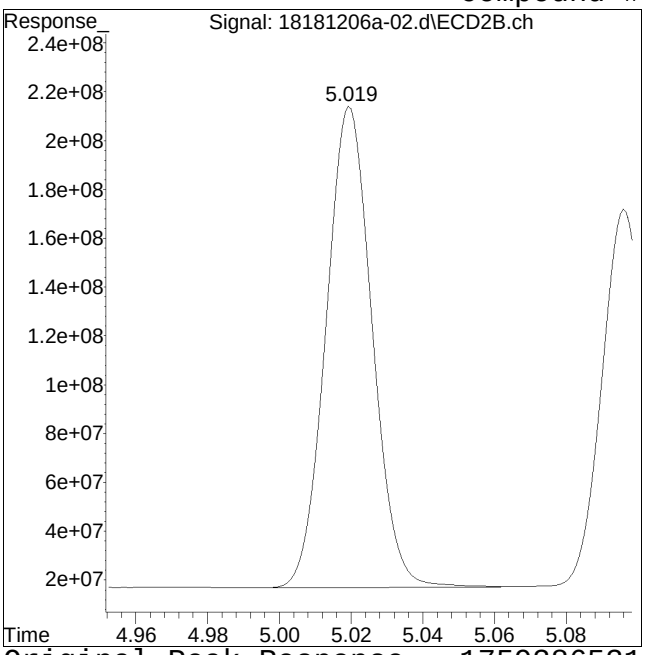


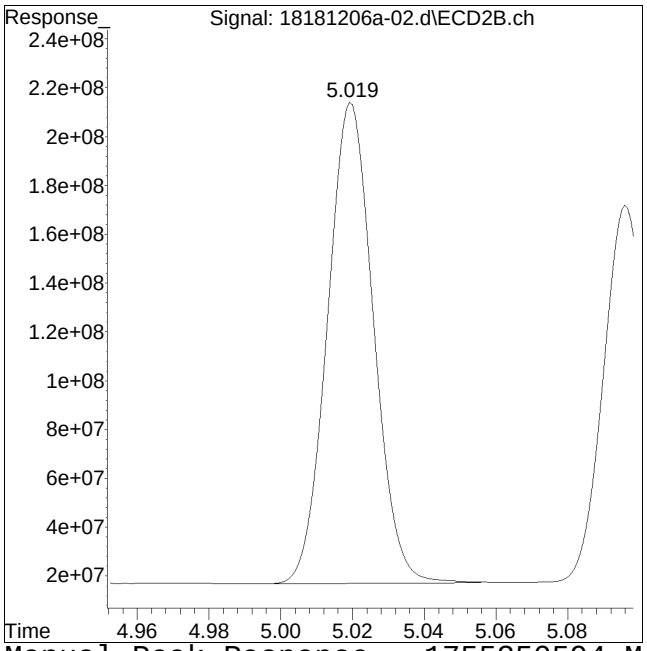
Original Peak Response = 1685447458 Manual Peak Response = 1682204617 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181206A\ QMethod : pest18_09_19_18_15103.m
Data File : 18181206a-02.d Operator : PEST18:amc
Date Inj'd : 12/6/2018 8:53 am Instrument : Pest 18
Sample : WG1186320-1,42e,,pest icv Quant Date : 12/6/2018 9:23 am

Compound #56: Endrin #2



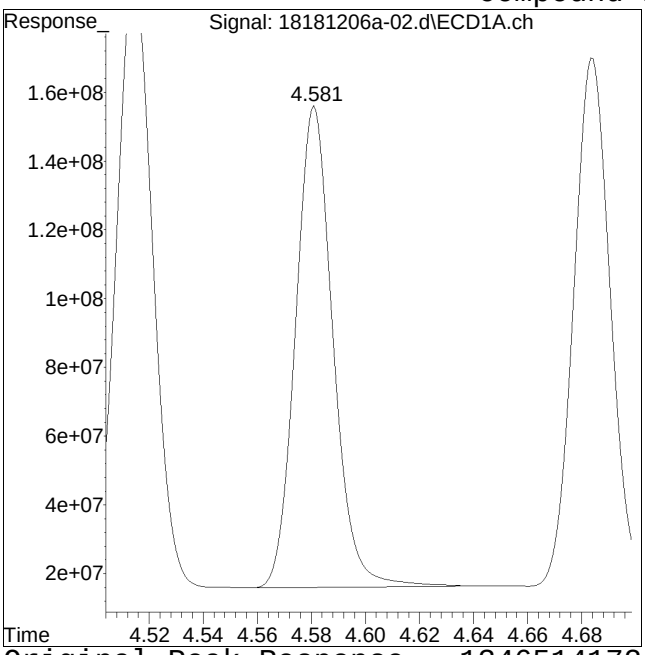


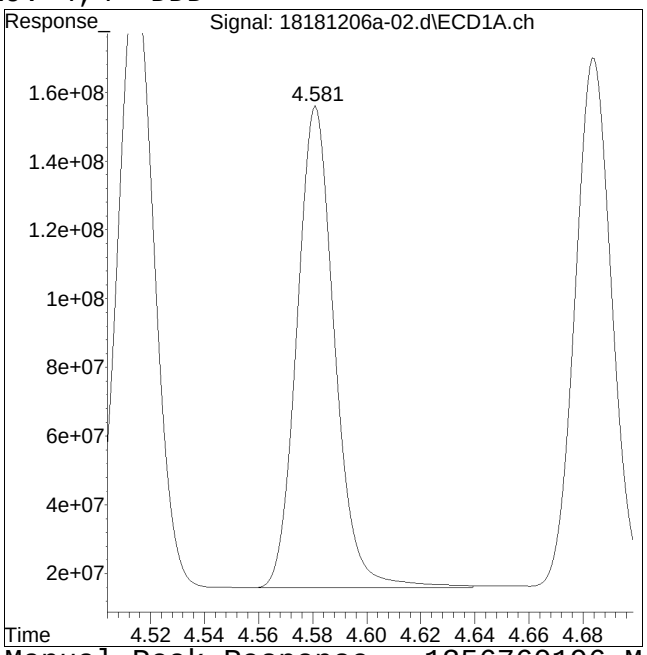
Original Peak Response = 1759386531 Manual Peak Response = 1755350594 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181206A\ QMethod : pest18_09_19_18_15103.m
Data File : 18181206a-02.d Operator : PEST18:amc
Date Inj'd : 12/6/2018 8:53 am Instrument : Pest 18
Sample : WG1186320-1,42e,,pest icv Quant Date : 12/6/2018 9:23 am

Compound #19: 4,4'-DDD



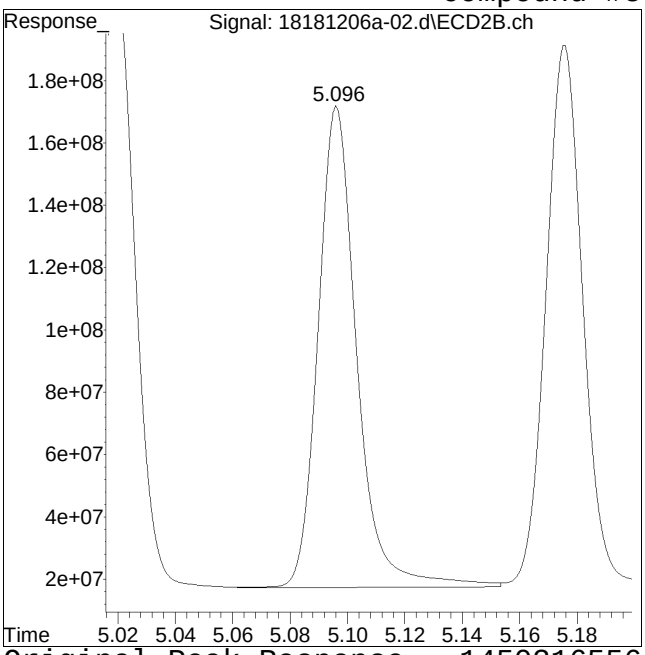


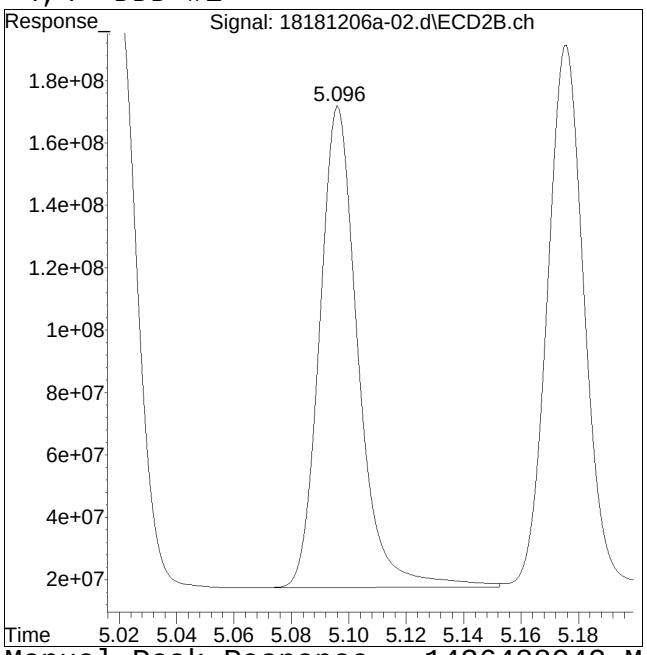
Original Peak Response = 1346514172 Manual Peak Response = 1356760196 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181206A\ QMethod : pest18_09_19_18_15103.m
Data File : 18181206a-02.d Operator : PEST18:amc
Date Inj'd : 12/6/2018 8:53 am Instrument : Pest 18
Sample : WG1186320-1,42e,,pest icv Quant Date : 12/6/2018 9:23 am

Compound #57: 4,4'-DDD #2



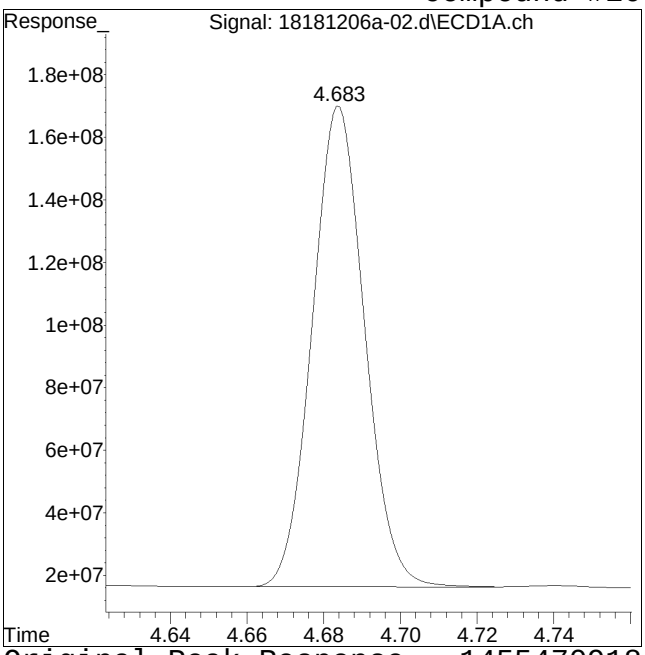


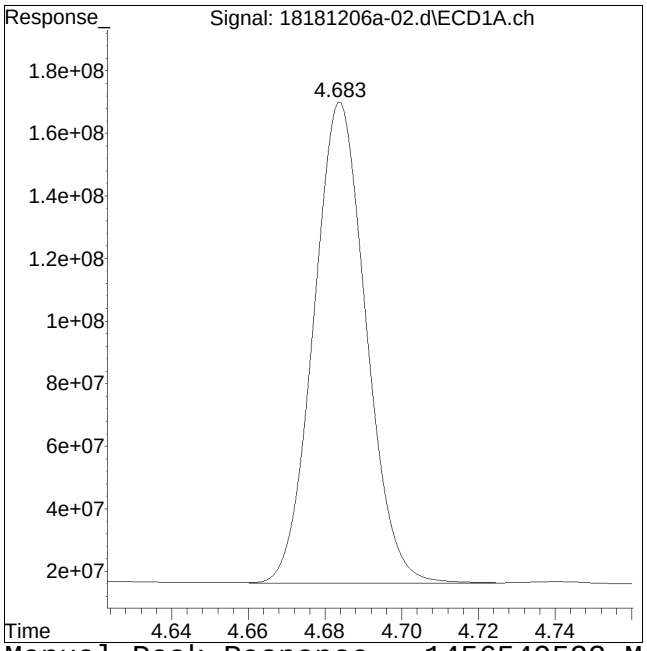
Original Peak Response = 1450316556 Manual Peak Response = 1436488942 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181206A\ QMethod : pest18_09_19_18_15103.m
Data File : 18181206a-02.d Operator : PEST18:amc
Date Inj'd : 12/6/2018 8:53 am Instrument : Pest 18
Sample : WG1186320-1,42e,,pest icv Quant Date : 12/6/2018 9:23 am

Compound #20: Endosulfan II



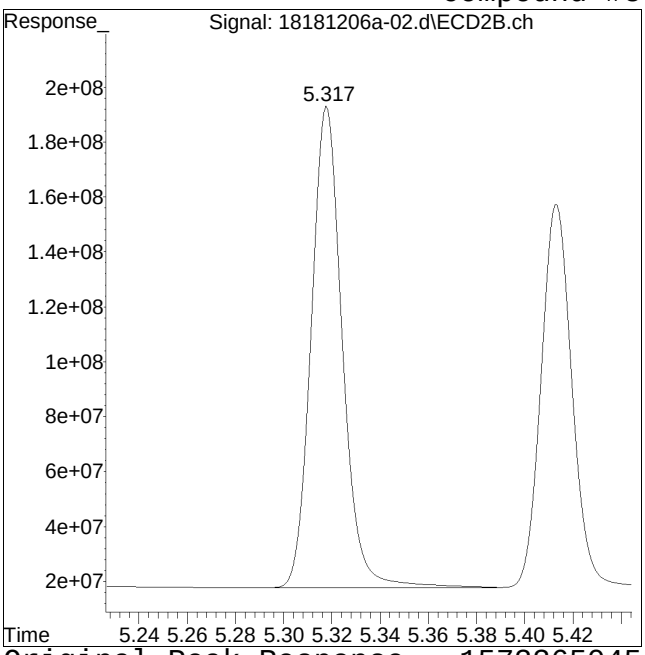


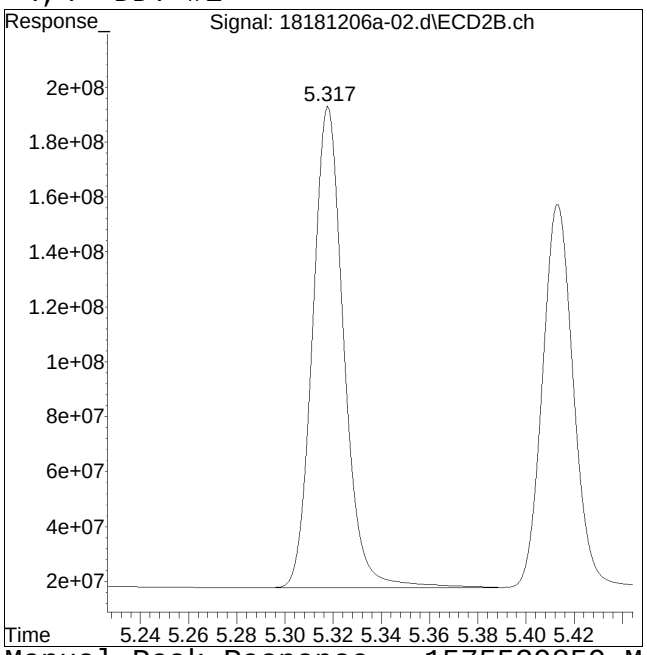
Original Peak Response = 1455470918 Manual Peak Response = 1456549523 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181206A\ QMethod : pest18_09_19_18_15103.m
Data File : 18181206a-02.d Operator : PEST18:amc
Date Inj'd : 12/6/2018 8:53 am Instrument : Pest 18
Sample : WG1186320-1,42e,,pest icv Quant Date : 12/6/2018 9:23 am

Compound #59: 4,4'-DDT #2



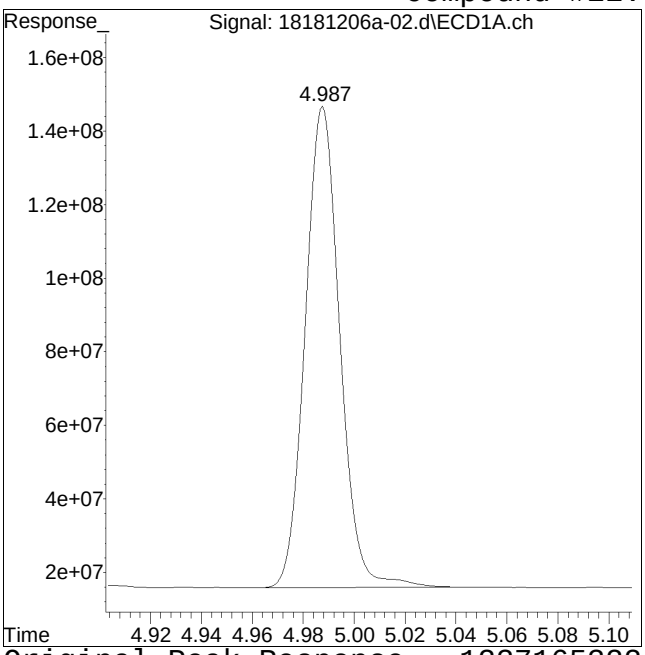


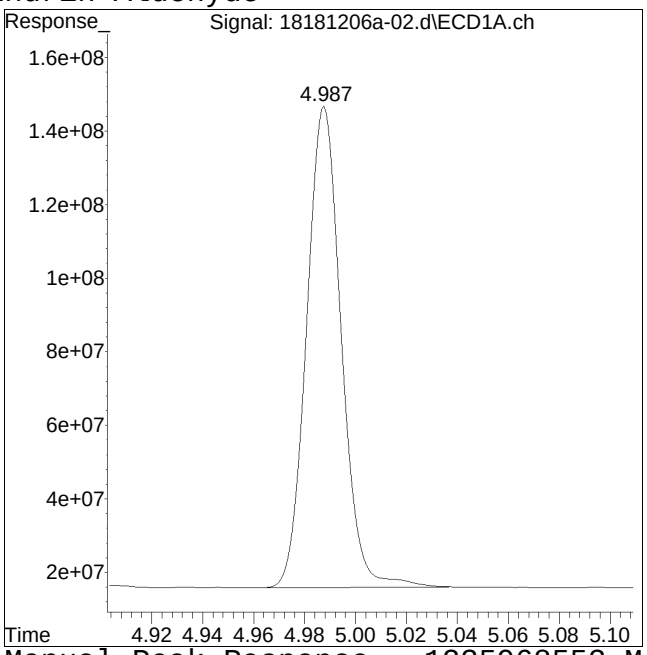
Original Peak Response = 1573365045 Manual Peak Response = 1575529859 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181206A\ QMethod : pest18_09_19_18_15103.m
Data File : 18181206a-02.d Operator : PEST18:amc
Date Inj'd : 12/6/2018 8:53 am Instrument : Pest 18
Sample : WG1186320-1,42e,,pest icv Quant Date : 12/6/2018 9:23 am

Compound #22: Endrin Aldehyde



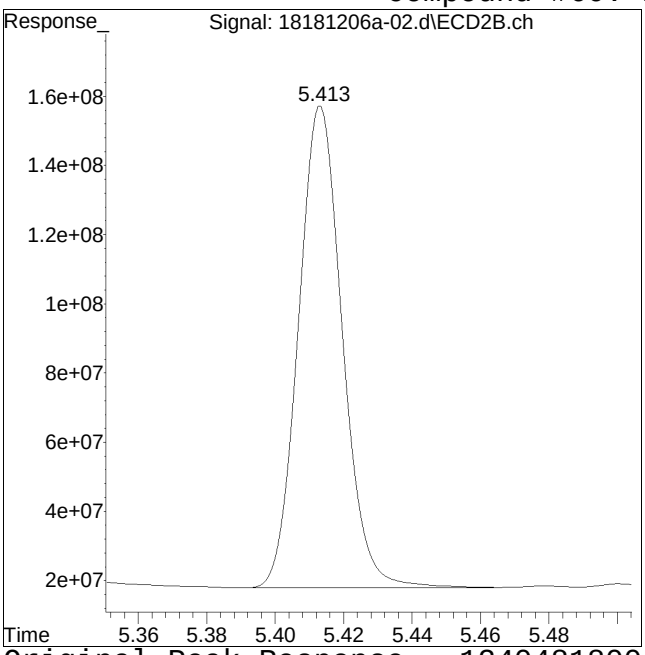


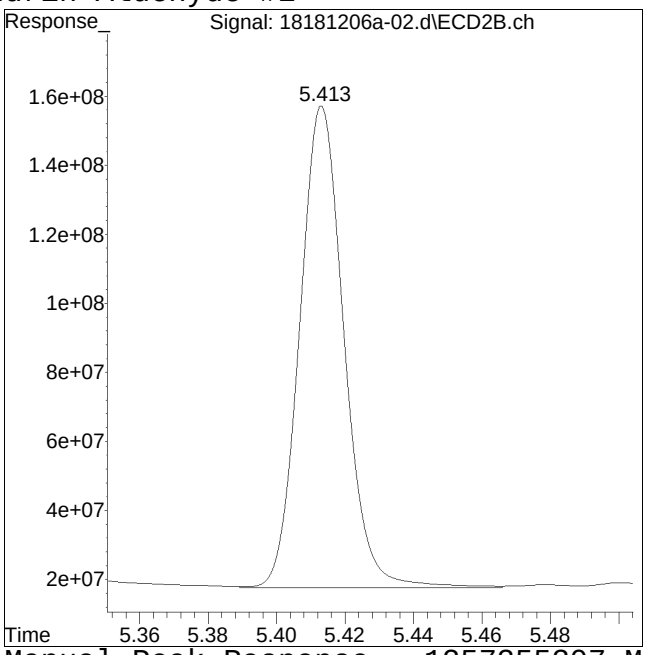
Original Peak Response = 1237165322 Manual Peak Response = 1235968553 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181206A\ QMethod : pest18_09_19_18_15103.m
Data File : 18181206a-02.d Operator : PEST18:amc
Date Inj'd : 12/6/2018 8:53 am Instrument : Pest 18
Sample : WG1186320-1,42e,,pest icv Quant Date : 12/6/2018 9:23 am

Compound #60: Endrin Aldehyde #2



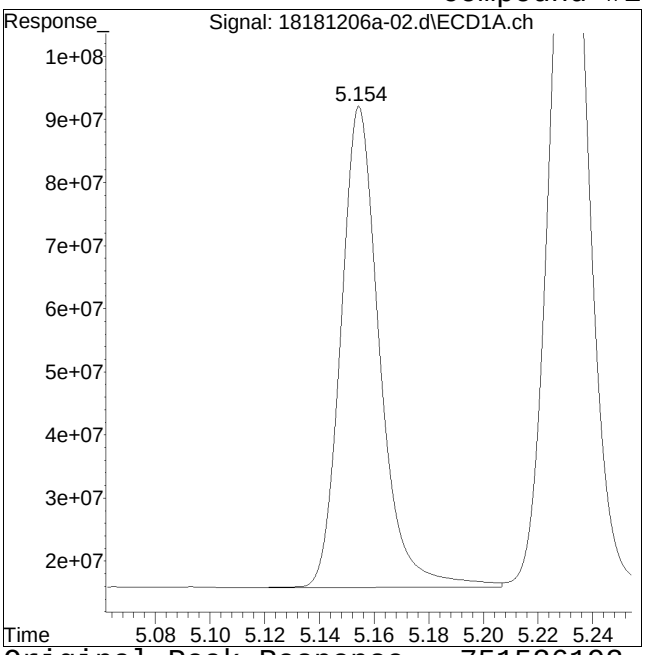


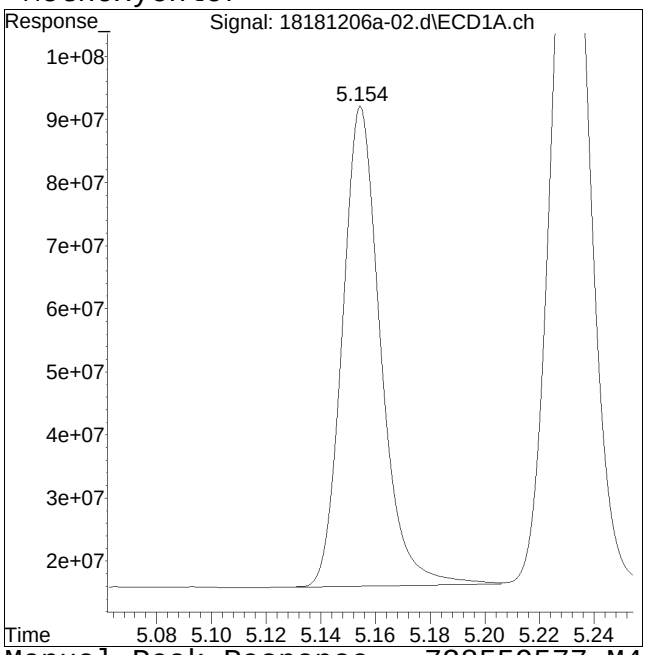
Original Peak Response = 1240481800 Manual Peak Response = 1257355307 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181206A\ QMethod : pest18_09_19_18_15103.m
Data File : 18181206a-02.d Operator : PEST18:amc
Date Inj'd : 12/6/2018 8:53 am Instrument : Pest 18
Sample : WG1186320-1,42e,,pest icv Quant Date : 12/6/2018 9:23 am

Compound #23: Methoxychlor



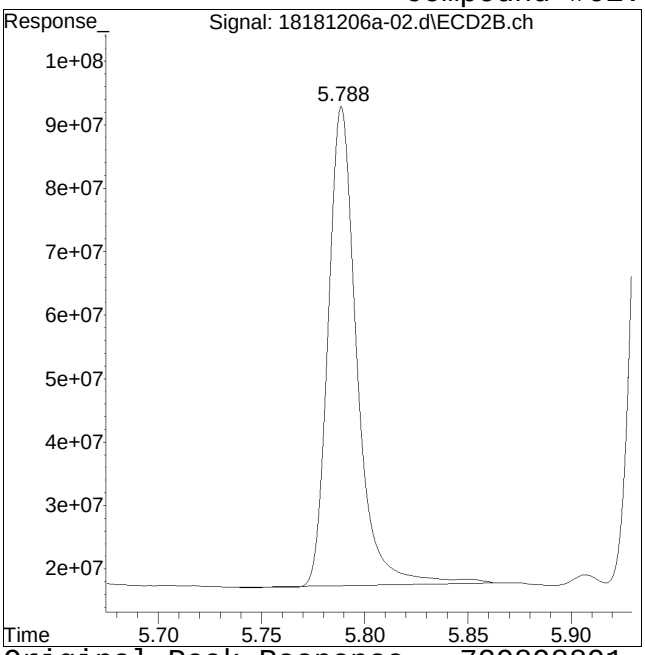


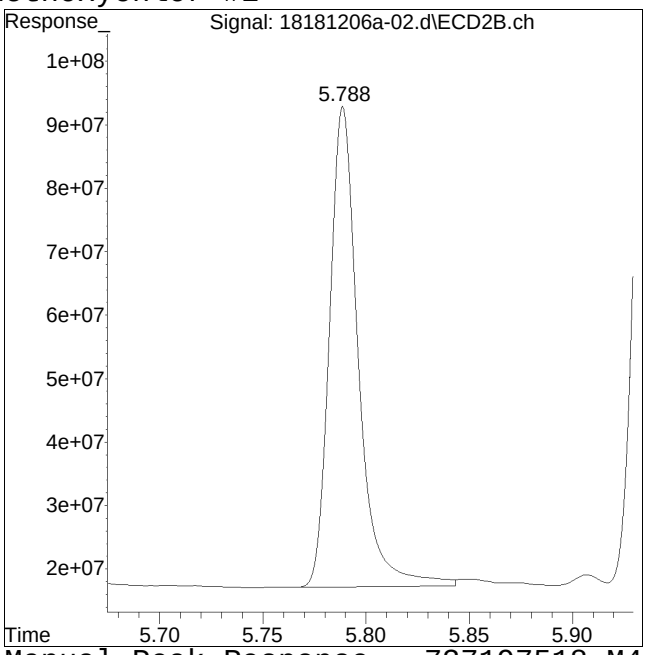
Original Peak Response = 751526192 Manual Peak Response = 738559577 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181206A\ QMethod : pest18_09_19_18_15103.m
Data File : 18181206a-02.d Operator : PEST18:amc
Date Inj'd : 12/6/2018 8:53 am Instrument : Pest 18
Sample : WG1186320-1,42e,,pest icv Quant Date : 12/6/2018 9:23 am

Compound #61: Methoxychlor #2



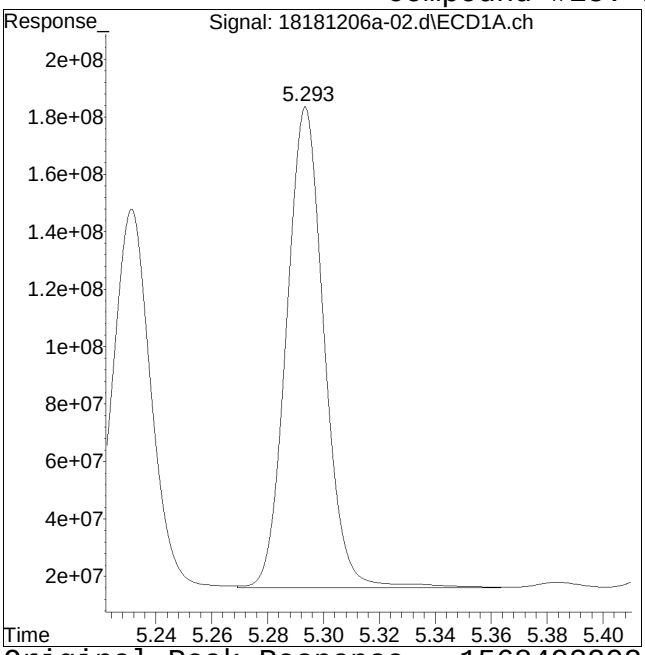


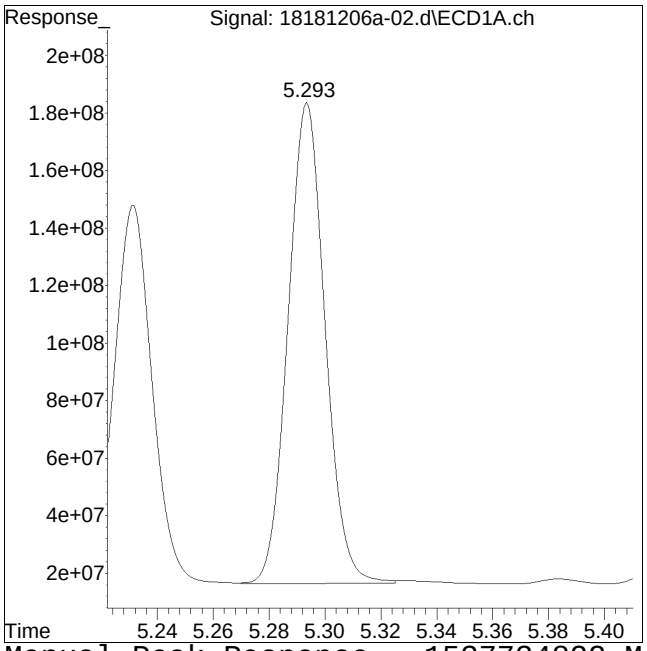
Original Peak Response = 729898891 Manual Peak Response = 737197518 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181206A\ QMethod : pest18_09_19_18_15103.m
Data File : 18181206a-02.d Operator : PEST18:amc
Date Inj'd : 12/6/2018 8:53 am Instrument : Pest 18
Sample : WG1186320-1,42e,,pest icv Quant Date : 12/6/2018 9:23 am

Compound #25: Endosulfan Sulfate



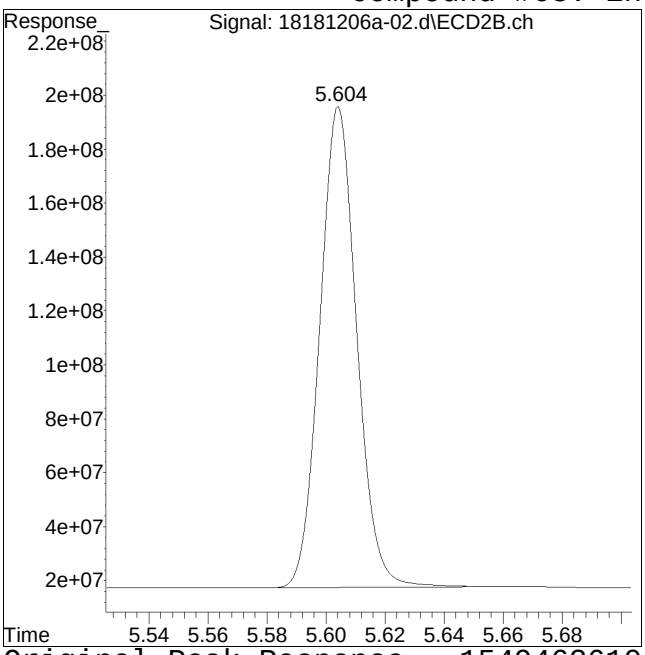


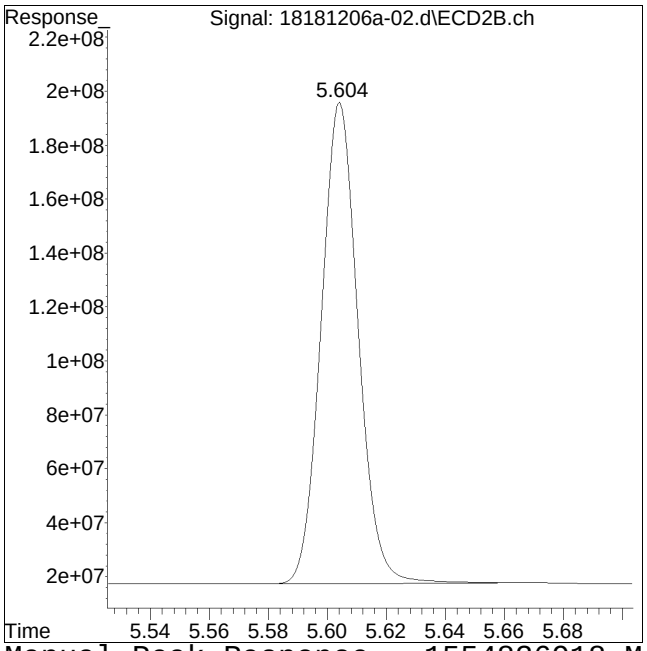
Original Peak Response = 1568493202 Manual Peak Response = 1537734822 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181206A\ QMethod : pest18_09_19_18_15103.m
Data File : 18181206a-02.d Operator : PEST18:amc
Date Inj'd : 12/6/2018 8:53 am Instrument : Pest 18
Sample : WG1186320-1,42e,,pest icv Quant Date : 12/6/2018 9:23 am

Compound #63: Endosulfan Sulfate #2



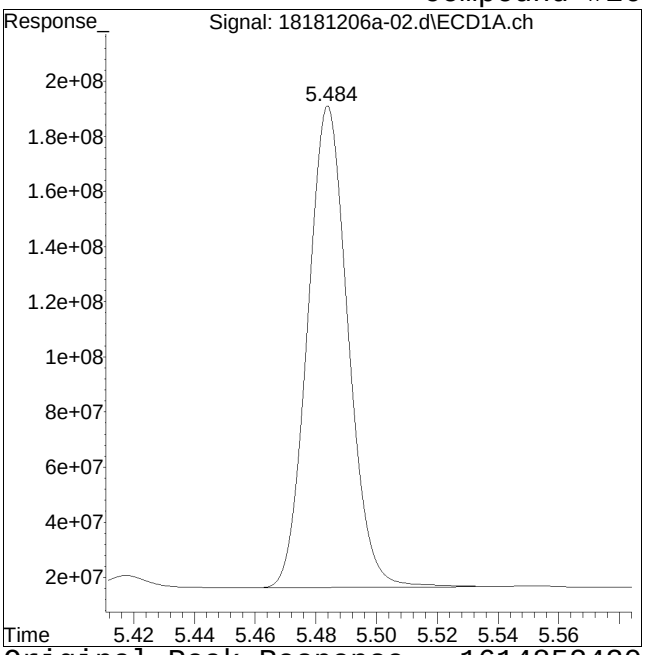


Original Peak Response = 1549463610 Manual Peak Response = 1554836918 M4
M4 = Poor automated baseline construction.

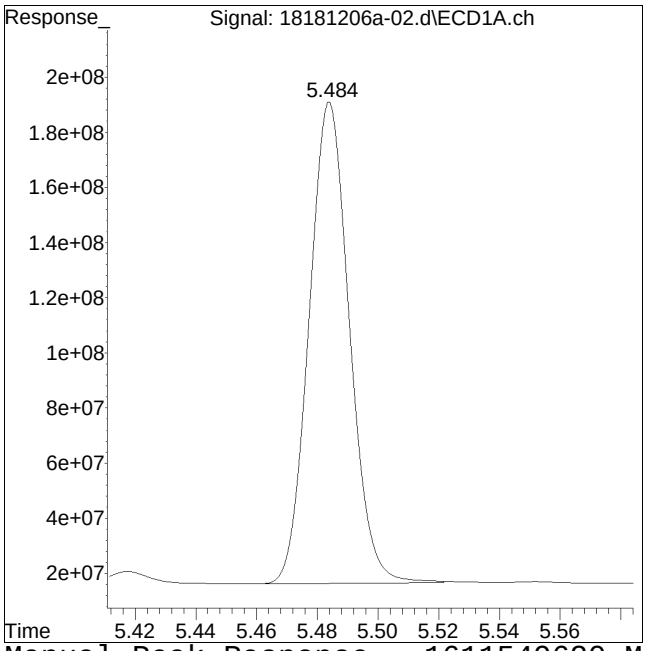
Manual Integration Report

Data Path : I:\Pest18\181206A\ QMethod : pest18_09_19_18_15103.m
Data File : 18181206a-02.d Operator : PEST18:amc
Date Inj'd : 12/6/2018 8:53 am Instrument : Pest 18
Sample : WG1186320-1,42e,,pest icv Quant Date : 12/6/2018 9:23 am

Compound #26: Endrin Ketone



Original Peak Response = 1614852420



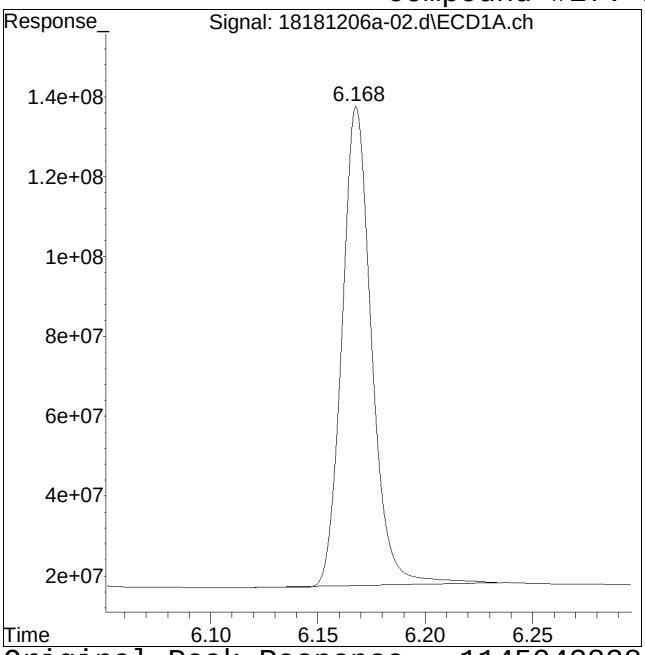
Manual Peak Response = 1611549620 M4

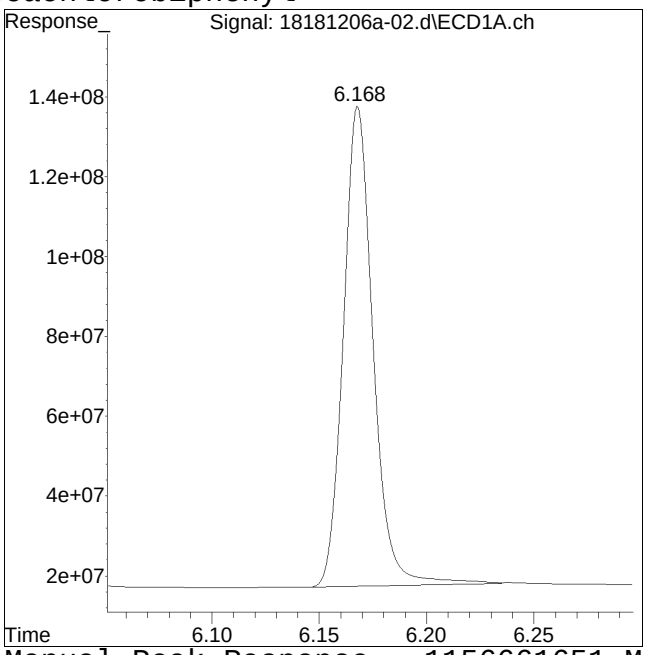
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181206A\ QMethod : pest18_09_19_18_15103.m
Data File : 18181206a-02.d Operator : PEST18:amc
Date Inj'd : 12/6/2018 8:53 am Instrument : Pest 18
Sample : WG1186320-1,42e,,pest icv Quant Date : 12/6/2018 9:23 am

Compound #27: Decachlorobiphenyl



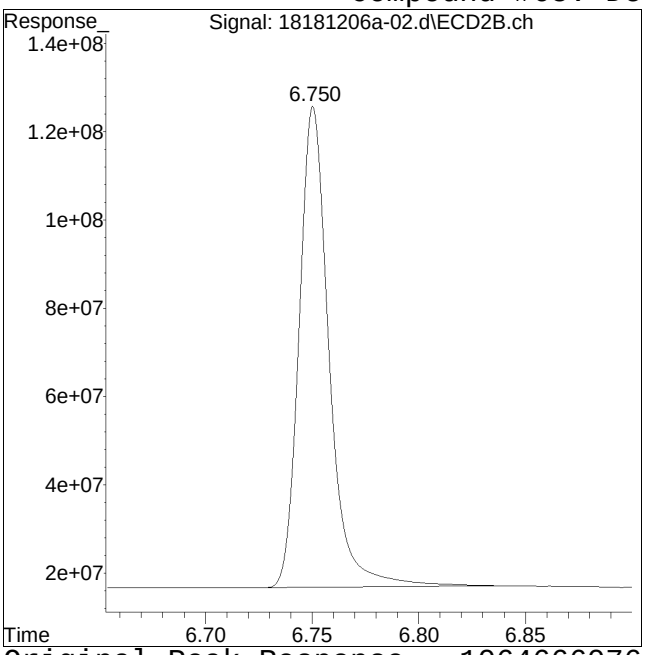


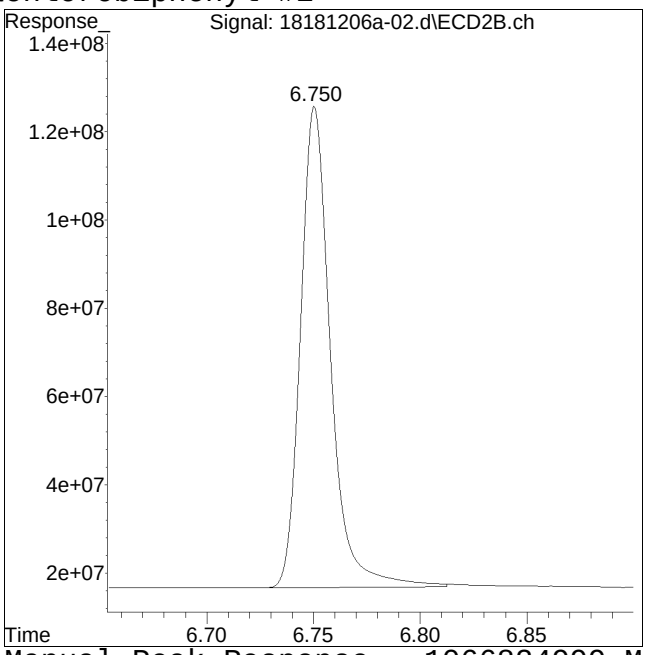
Original Peak Response = 1145043838 Manual Peak Response = 1156661651 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181206A\ QMethod : pest18_09_19_18_15103.m
Data File : 18181206a-02.d Operator : PEST18:amc
Date Inj'd : 12/6/2018 8:53 am Instrument : Pest 18
Sample : WG1186320-1,42e,,pest icv Quant Date : 12/6/2018 9:23 am

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 1064666076 Manual Peak Response = 1066824999 M4
M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\Pest18\181206A\
Data File : 18181206a-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 6 Dec 2018   9:06 am
Operator : PEST18:amc
Sample   : WG1186320-2,42e,,chlor icv 8983 (Sig #1); chlor icv 8983 (Sig #2)
Misc   : WG1186320,ical15103
ALS Vial : 3   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 09:31:48 2018
Quant Method : I:\Pest18\181206A\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Wed Dec 05 18:46:40 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	25.000	25.000	0.0	124	0.00
29	l1	chlordane-1	1000.000	997.991	0.2	121	0.00
30	l1	chlordane-2	1000.000	795.664	20.4#	94	0.00
31	l1	chlordane-3	1000.000	968.303	3.2	118	0.00
32	l1	chlordane-4	1000.000	1062.512	-6.3	129	0.00

Signal #2

28	i	1-br-2-nb_Chlordane	25.000	25.000	0.0	114	0.00
29	l1	chlordane-1	1000.000	982.084	1.8	110	0.00
30	l1	chlordane-2	1000.000	790.690	20.9#	86	0.00
31	l1	chlordane-3	1000.000	1047.141	-4.7	116	0.00
32	l1	chlordane-4	1000.000	937.092	6.3	102	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	25.000	25.000	0.0	0	-1.74#
2	s	2,4,5,6-Tetrachloro-m-xylen	10.000	0.000	100.0#	0	-2.21#
3		Hexachlorobenzene	10.000	0.000	100.0#	0	-2.45#
4		alpha-BHC	10.000	0.000	100.0#	0	-2.56#
5		gamma-BHC (lindane)	10.000	0.000	100.0#	0	-2.78#
6		beta-BHC	10.000	0.000	100.0#	0	-2.84#
7		delta-BHC	10.000	0.000	100.0#	0	-2.97#
8		Heptachlor	10.000	0.000	100.0#	0	-3.13#
9		Aldrin	10.000	0.000	100.0#	0	-3.35#
10		Alachlor	10.000	0.000	100.0#	0	-3.46#
11		Chlorpyrifos	10.000	0.000	100.0#	0	-3.55#
12		Heptachlor Epoxide	10.000	0.000	100.0#	0	-3.84#
13		gamma-Chlordane (trans)	10.000	0.000	100.0#	0	-3.94#

Data Path : I:\Pest18\181206A\
Data File : 18181206a-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 6 Dec 2018   9:06 am
Operator : PEST18:amc
Sample   : WG1186320-2,42e,,chlor icv 8983 (Sig #1); chlor icv 8983 (Sig #2)
Misc   : WG1186320,ical15103
ALS Vial : 3   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 09:31:48 2018
Quant Method : I:\Pest18\181206A\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Wed Dec 05 18:46:40 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
14		alpha-Chlordane (cis)	10.000	0.000	100.0#	0	-4.05#
15		4,4'-DDE	10.000	0.000	100.0#	0	-4.12#
16		Endosulfan I	10.000	0.000	100.0#	0	-4.15#
17		Dieldrin	10.000	0.000	100.0#	0	-4.34#
18		Endrin	10.000	0.000	100.0#	0	-4.51#
19		4,4'-DDD	10.000	0.000	100.0#	0	-4.58#
20		Endosulfan II	10.000	0.000	100.0#	0	-4.68#
21		4,4'-DDT	10.000	0.000	100.0#	0	-4.79#
22		Endrin Aldehyde	10.000	0.000	100.0#	0	-4.99#
23		Methoxychlor	10.000	0.000	100.0#	0	-5.15#
24		Mirex	10.000	0.000	100.0#	0	-5.23#
25		Endosulfan Sulfate	10.000	0.000	100.0#	0	-5.29#
26		Endrin Ketone	10.000	0.000	100.0#	0	-5.48#
27	s	Decachlorobiphenyl	10.000	0.000	100.0#	0	-6.17#
33	i	1-br-2-nb_Toxaphene	25.000	25.000	0.0	0	-1.74#
34	l2	toxaphene-1	2000.000	0.000	100.0#	0	-4.67#
35	l2	toxaphene-2	2000.000	0.000	100.0#	0	-4.76#
36	l2	toxaphene-3	2000.000	0.000	100.0#	0	-4.93#
37	l2	toxaphene-5	2000.000	0.000	100.0#	0	-5.23#

Signal #2

1	i	1-br-2-nb_Pesticides	25.000	25.000	0.0	0	-1.85#
2	s	2,4,5,6-Tetrachloro-m-xyl	10.000	0.000	100.0#	0	-2.43#
3		Hexachlorobenzene	10.000	0.000	100.0#	0	-2.77#
4		alpha-BHC	10.000	0.000	100.0#	0	-2.87#
5		gamma-BHC (lindane)	10.000	0.000	100.0#	0	-3.15#
6		beta-BHC	10.000	0.000	100.0#	0	-3.22#
7		delta-BHC	10.000	0.000	100.0#	0	-3.46#

Evaluate Continuing Calibration Report

Data Path : I:\Pest18\181206A\
Data File : 18181206a-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 6 Dec 2018   9:06 am
Operator : PEST18:amc
Sample   : WG1186320-2,42e,,chlor icv 8983 (Sig #1); chlor icv 8983 (Sig #2)
Misc   : WG1186320,ical15103
ALS Vial : 3   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 09:31:48 2018
Quant Method : I:\Pest18\181206A\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Wed Dec 05 18:46:40 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
8		Heptachlor	10.000	0.000	100.0#	0	-3.51#
9		Aldrin	10.000	0.000	100.0#	0	-3.79#
10		Alachlor	10.000	0.000	100.0#	0	-3.69#
11		Chlorpyrifos	10.000	0.000	100.0#	0	-3.98#
12		Heptachlor Epoxide	10.000	0.000	100.0#	0	-4.27#
13		gamma-Chlordane (trans)	10.000	0.000	100.0#	0	-4.42#
14		alpha-Chlordane (cis)	10.000	0.000	100.0#	0	-4.54#
15		4,4'-DDE	10.000	0.000	100.0#	0	-4.66#
16		Endosulfan I	10.000	0.000	100.0#	0	-4.58#
17		Dieldrin	10.000	0.000	100.0#	0	-4.79#
18		Endrin	10.000	0.000	100.0#	0	-5.02#
19		4,4'-DDD	10.000	0.000	100.0#	0	-5.10#
20		Endosulfan II	10.000	0.000	100.0#	0	-5.18#
21		4,4'-DDT	10.000	0.000	100.0#	0	-5.32#
22		Endrin Aldehyde	10.000	0.000	100.0#	0	-5.41#
23		Methoxychlor	10.000	0.000	100.0#	0	-5.79#
24		Mirex	10.000	0.000	100.0#	0	-5.94#
25		Endosulfan Sulfate	10.000	0.000	100.0#	0	-5.60#
26		Endrin Ketone	10.000	0.000	100.0#	0	-5.97#
27	s	Decachlorobiphenyl	10.000	0.000	100.0#	0	-6.75#
33	i	1-br-2-nb_Toxaphene	25.000	25.000	0.0	0	-1.85#
34	l2	toxaphene-1	2000.000	0.000	100.0#	0	-5.14#
35	l2	toxaphene-2	2000.000	0.000	100.0#	0	-5.16#
36	l2	toxaphene-3	2000.000	0.000	100.0#	0	-5.23#
37	l2	toxaphene-5	2000.000	0.000	100.0#	0	-5.77#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\Pest18\181206A\
Data File : 18181206a-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Dec 2018 9:06 am
Operator : PEST18:amc
Sample : WG1186320-2,42e,,chlor icv 8983 (Sig #1); chlor icv 8983 (Sig #2)
Misc : WG1186320,ical15103
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 09:31:48 2018
Quant Method : I:\Pest18\181206A\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Wed Dec 05 18:46:40 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.739	1.849	666.5E6	722.0E6	25.000M4	25.000
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150	Recovery	=	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\Pest18\181206A\
Data File : 18181206a-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Dec 2018 9:06 am
Operator : PEST18:amc
Sample : WG1186320-2,42e,,chlor icv 8983 (Sig #1); chlor icv 8983 (Sig #2)
Misc : WG1186320,ical15103
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 09:31:48 2018
Quant Method : I:\Pest18\181206A\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Wed Dec 05 18:46:40 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	3.062	3.387	826.7E6	915.1E6	997.991	982.084
30) l1	chlordane-2	3.127	3.509	1301.4E6	1490.7E6	795.664	790.690
31) l1	chlordane-3	3.944	4.422	3372.0E6	3354.2E6	968.303	1047.141
32) l1	chlordane-4	4.043	4.536	5689.0E6	2582.2E6	1062.512	937.092
Sum	chlordane-1			11189.2E6	8342.2E6	N.D.	N.D. D
Average	chlordane-1					956.117	939.252
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

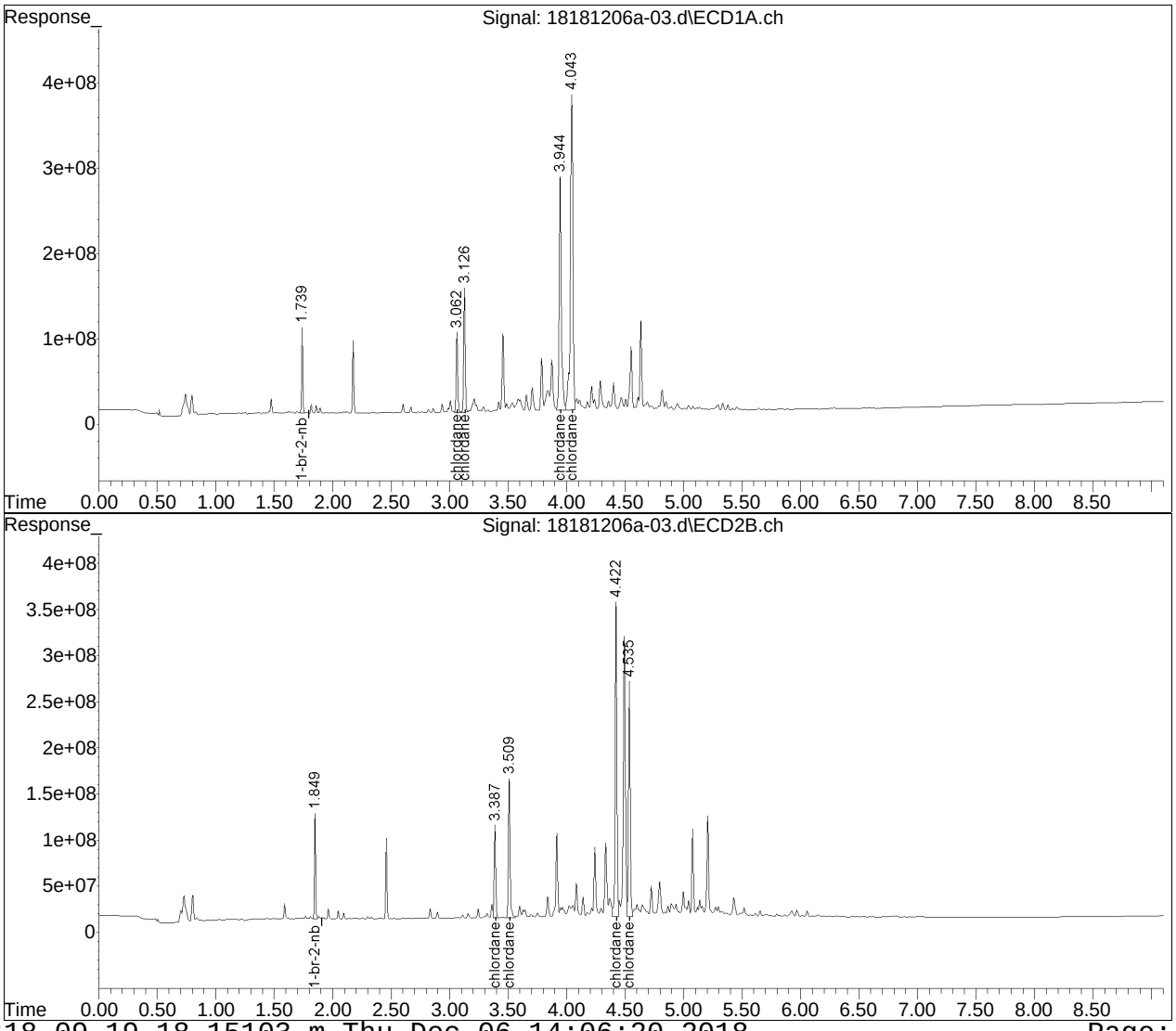
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest18\181206A\
Data File : 18181206a-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Dec 2018 9:06 am
Operator : PEST18:amc
Sample : WG1186320-2,42e,,chlor icv 8983 (Sig #1); chlor icv 8983 (Sig #2)
Misc : WG1186320,ical15103
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 09:31:48 2018
Quant Method : I:\Pest18\181206A\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Wed Dec 05 18:46:40 2018
Response via : Initial Calibration
Integrator: ChemStation

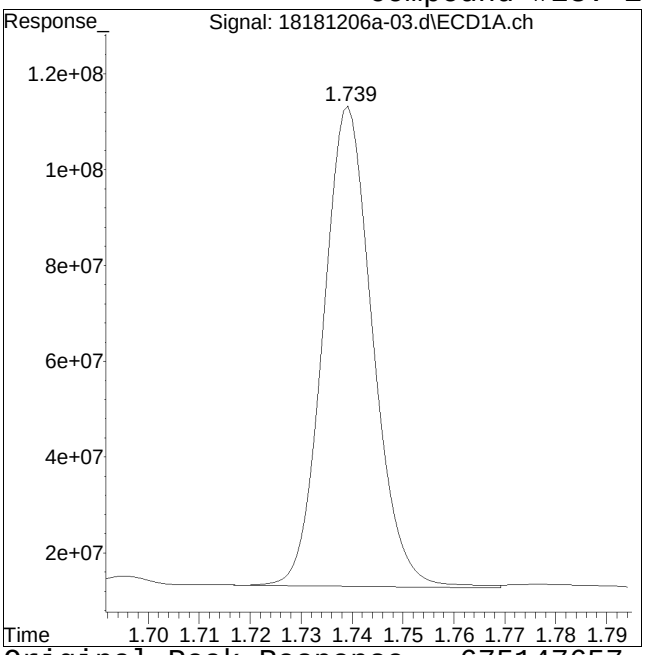
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

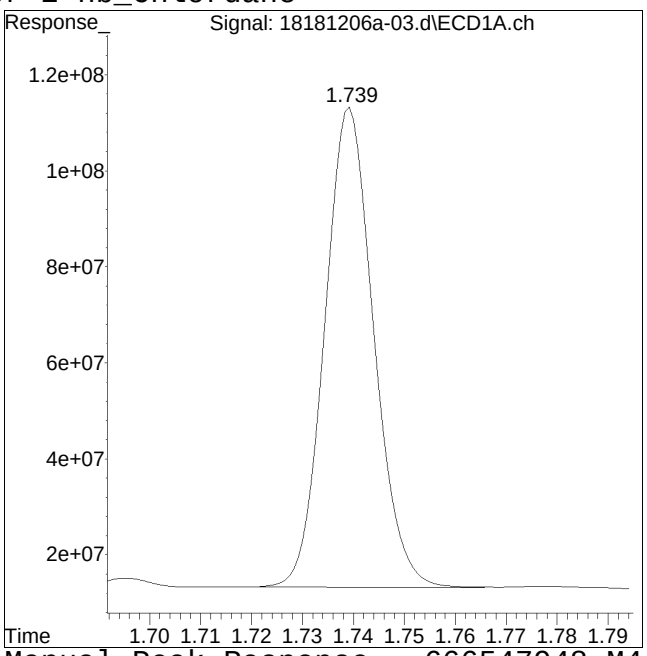


Manual Integration Report

Data Path : I:\Pest18\181206A\ QMethod : pest18_09_19_18_15103.m
Data File : 18181206a-03.d Operator : PEST18:amc
Date Inj'd : 12/6/2018 9:06 am Instrument : Pest 18
Sample : WG1186320-2,42e,,chlor icv Quant Date : 12/6/2018 9:31 am

Compound #28: 1-br-2-nb_Chlordane





Original Peak Response = 675147657 Manual Peak Response = 666547948 M4
M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\Pest18\181206A\
Data File : 18181206a-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 6 Dec 2018   9:18 am
Operator : PEST18:amc
Sample   : WG1186320-3,42e,,tox icv 9034 (Sig #1); tox icv 9034 (Sig #2)
Misc   : WG1186320,ical15103
ALS Vial : 4   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 09:32:58 2018
Quant Method : I:\Pest18\181206A\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Wed Dec 05 18:46:40 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
33	i	1-br-2-nb_Toxaphene	25.000	25.000	0.0	140	0.00
34	l2	toxaphene-1	2000.000	1807.955	9.6	127	0.00
35	l2	toxaphene-2	2000.000	1791.327	10.4	126	0.00
36	l2	toxaphene-3	2000.000	1820.340	9.0	128	0.00
37	l2	toxaphene-5	2000.000	1709.316	14.5	120	0.00

Signal #2

33	i	1-br-2-nb_Toxaphene	25.000	25.000	0.0	128	0.00
34	l2	toxaphene-1	2000.000	1740.605	13.0	112	0.00
35	l2	toxaphene-2	2000.000	1775.083	11.2	114	0.00
36	l2	toxaphene-3	2000.000	1704.181	14.8	109	0.00
37	l2	toxaphene-5	2000.000	1633.602	18.3	105	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	25.000	25.000	0.0	0	-1.74#
2	s	2,4,5,6-Tetrachloro-m-xylen	10.000	0.000	100.0#	0	-2.21#
3		Hexachlorobenzene	10.000	0.000	100.0#	0	-2.45#
4		alpha-BHC	10.000	0.000	100.0#	0	-2.56#
5		gamma-BHC (lindane)	10.000	0.000	100.0#	0	-2.78#
6		beta-BHC	10.000	0.000	100.0#	0	-2.84#
7		delta-BHC	10.000	0.000	100.0#	0	-2.97#
8		Heptachlor	10.000	0.000	100.0#	0	-3.13#
9		Aldrin	10.000	0.000	100.0#	0	-3.35#
10		Alachlor	10.000	0.000	100.0#	0	-3.46#
11		Chlorpyrifos	10.000	0.000	100.0#	0	-3.55#
12		Heptachlor Epoxide	10.000	0.000	100.0#	0	-3.84#
13		gamma-Chlordane (trans)	10.000	0.000	100.0#	0	-3.94#

Data Path : I:\Pest18\181206A\
Data File : 18181206a-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 6 Dec 2018   9:18 am
Operator : PEST18:amc
Sample   : WG1186320-3,42e,,tox icv 9034 (Sig #1); tox icv 9034 (Sig #2)
Misc   : WG1186320,ical15103
ALS Vial : 4   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 09:32:58 2018
Quant Method : I:\Pest18\181206A\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Wed Dec 05 18:46:40 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
14		alpha-Chlordane (cis)	10.000	0.000	100.0#	0	-4.05#
15		4,4'-DDE	10.000	0.000	100.0#	0	-4.12#
16		Endosulfan I	10.000	0.000	100.0#	0	-4.15#
17		Dieldrin	10.000	0.000	100.0#	0	-4.34#
18		Endrin	10.000	0.000	100.0#	0	-4.51#
19		4,4'-DDD	10.000	0.000	100.0#	0	-4.58#
20		Endosulfan II	10.000	0.000	100.0#	0	-4.68#
21		4,4'-DDT	10.000	0.000	100.0#	0	-4.79#
22		Endrin Aldehyde	10.000	0.000	100.0#	0	-4.99#
23		Methoxychlor	10.000	0.000	100.0#	0	-5.15#
24		Mirex	10.000	0.000	100.0#	0	-5.23#
25		Endosulfan Sulfate	10.000	0.000	100.0#	0	-5.29#
26		Endrin Ketone	10.000	0.000	100.0#	0	-5.48#
27	s	Decachlorobiphenyl	10.000	0.000	100.0#	0	-6.17#
28	i	1-br-2-nb_Chlordane	25.000	25.000	0.0	0	-1.74#
29	l1	chlordane-1	1000.000	0.000	100.0#	0	-3.06#
30	l1	chlordane-2	1000.000	0.000	100.0#	0	-3.13#
31	l1	chlordane-3	1000.000	0.000	100.0#	0	-3.94#
32	l1	chlordane-4	1000.000	0.000	100.0#	0	-4.04#

Signal #2

1	i	1-br-2-nb_Pesticides	25.000	25.000	0.0	0	-1.85#
2	s	2,4,5,6-Tetrachloro-m-xyl	10.000	0.000	100.0#	0	-2.43#
3		Hexachlorobenzene	10.000	0.000	100.0#	0	-2.77#
4		alpha-BHC	10.000	0.000	100.0#	0	-2.87#
5		gamma-BHC (lindane)	10.000	0.000	100.0#	0	-3.15#
6		beta-BHC	10.000	0.000	100.0#	0	-3.22#
7		delta-BHC	10.000	0.000	100.0#	0	-3.46#

Evaluate Continuing Calibration Report

Data Path : I:\Pest18\181206A\
Data File : 18181206a-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 6 Dec 2018   9:18 am
Operator : PEST18:amc
Sample   : WG1186320-3,42e,,tox icv 9034 (Sig #1); tox icv 9034 (Sig #2)
Misc   : WG1186320,ical15103
ALS Vial : 4   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 09:32:58 2018
Quant Method : I:\Pest18\181206A\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Wed Dec 05 18:46:40 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
8		Heptachlor	10.000	0.000	100.0#	0	-3.51#
9		Aldrin	10.000	0.000	100.0#	0	-3.79#
10		Alachlor	10.000	0.000	100.0#	0	-3.69#
11		Chlorpyrifos	10.000	0.000	100.0#	0	-3.98#
12		Heptachlor Epoxide	10.000	0.000	100.0#	0	-4.27#
13		gamma-Chlordane (trans)	10.000	0.000	100.0#	0	-4.42#
14		alpha-Chlordane (cis)	10.000	0.000	100.0#	0	-4.54#
15		4,4'-DDE	10.000	0.000	100.0#	0	-4.66#
16		Endosulfan I	10.000	0.000	100.0#	0	-4.58#
17		Dieldrin	10.000	0.000	100.0#	0	-4.79#
18		Endrin	10.000	0.000	100.0#	0	-5.02#
19		4,4'-DDD	10.000	0.000	100.0#	0	-5.10#
20		Endosulfan II	10.000	0.000	100.0#	0	-5.18#
21		4,4'-DDT	10.000	0.000	100.0#	0	-5.32#
22		Endrin Aldehyde	10.000	0.000	100.0#	0	-5.41#
23		Methoxychlor	10.000	0.000	100.0#	0	-5.79#
24		Mirex	10.000	0.000	100.0#	0	-5.94#
25		Endosulfan Sulfate	10.000	0.000	100.0#	0	-5.60#
26		Endrin Ketone	10.000	0.000	100.0#	0	-5.97#
27	s	Decachlorobiphenyl	10.000	0.000	100.0#	0	-6.75#
28	i	1-br-2-nb_Chlordane	25.000	25.000	0.0	0	-1.85#
29	l1	chlordane-1	1000.000	0.000	100.0#	0	-3.39#
30	l1	chlordane-2	1000.000	0.000	100.0#	0	-3.51#
31	l1	chlordane-3	1000.000	0.000	100.0#	0	-4.42#
32	l1	chlordane-4	1000.000	0.000	100.0#	0	-4.54#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\Pest18\181206A\
Data File : 18181206a-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Dec 2018 9:18 am
Operator : PEST18:amc
Sample : WG1186320-3,42e,,tox icv 9034 (Sig #1); tox icv 9034 (Sig #2)
Misc : WG1186320,ical15103
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 09:32:58 2018
Quant Method : I:\Pest18\181206A\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Wed Dec 05 18:46:40 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.741	1.849	686.8E6	732.3E6	25.000M4	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\Pest18\181206A\
Data File : 18181206a-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Dec 2018 9:18 am
Operator : PEST18:amc
Sample : WG1186320-3,42e,,tox icv 9034 (Sig #1); tox icv 9034 (Sig #2)
Misc : WG1186320,ical15103
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 09:32:58 2018
Quant Method : I:\Pest18\181206A\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Wed Dec 05 18:46:40 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	4.674	5.136	2795.9E6	1288.0E6	1807.955	1740.605
35) l2	toxaphene-2	4.764	5.162	2400.0E6	1867.8E6	1791.327	1775.083
36) l2	toxaphene-3	4.929	5.233	2250.8E6	3319.3E6	1820.340	1704.181
37) l2	toxaphene-5	5.225	5.767	2073.1E6	1944.5E6	1709.316	1633.602
Sum	toxaphene-1			9519.9E6	8419.6E6	7128.937	6853.471
Average	toxaphene-1					1782.234	1713.368

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			9519.9E6	8419.6E6	7128.937	6853.471
Average	toxaphene-1					1782.234	1713.368

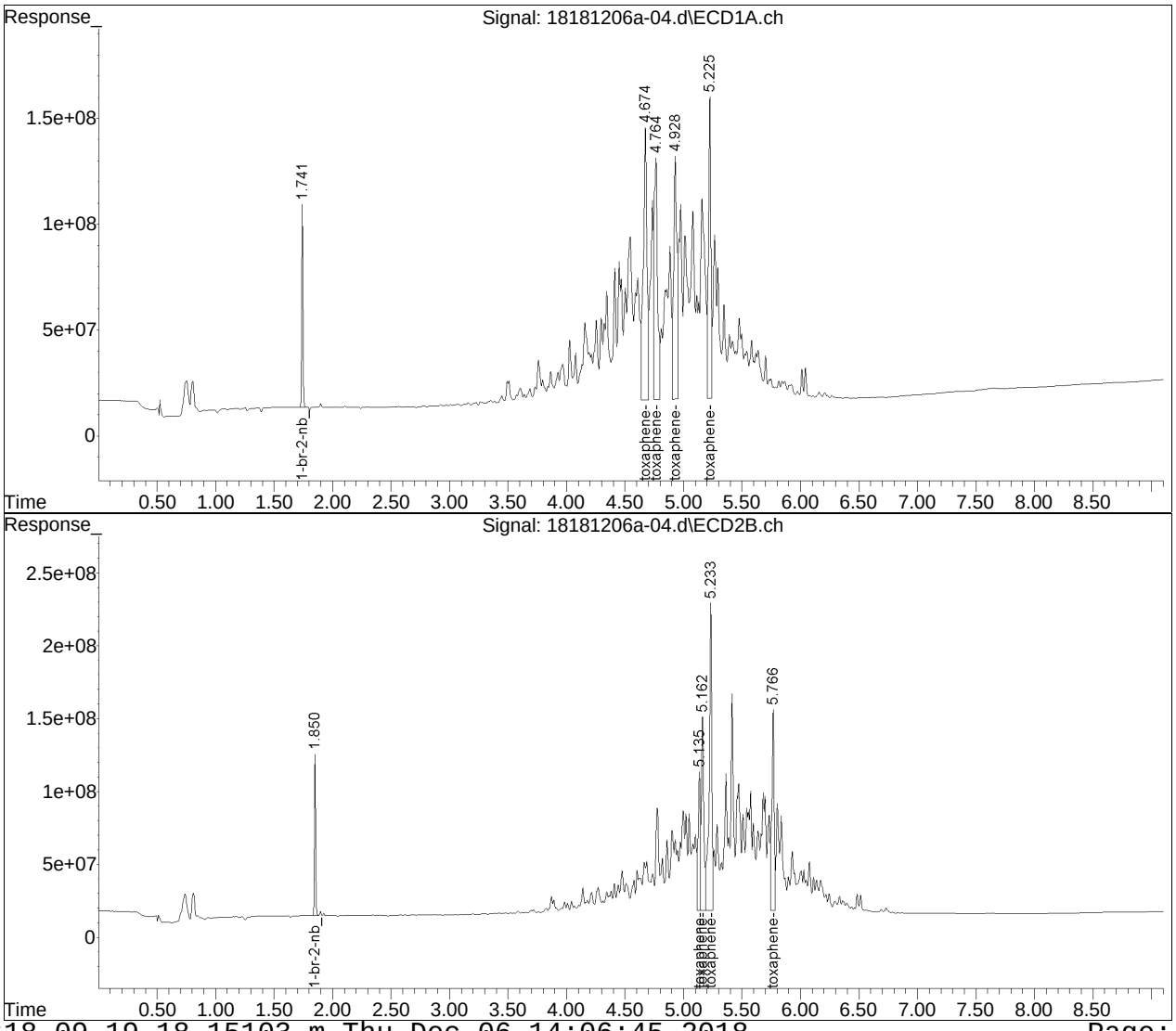
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest18\181206A\
Data File : 18181206a-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Dec 2018 9:18 am
Operator : PEST18:amc
Sample : WG1186320-3,42e,,tox icv 9034 (Sig #1); tox icv 9034 (Sig #2)
Misc : WG1186320,ical15103
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 09:32:58 2018
Quant Method : I:\Pest18\181206A\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Wed Dec 05 18:46:40 2018
Response via : Initial Calibration
Integrator: ChemStation

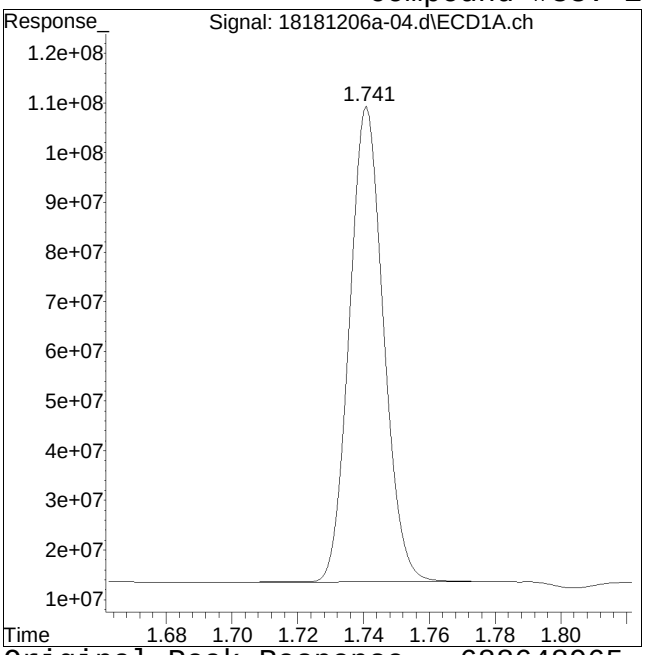
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

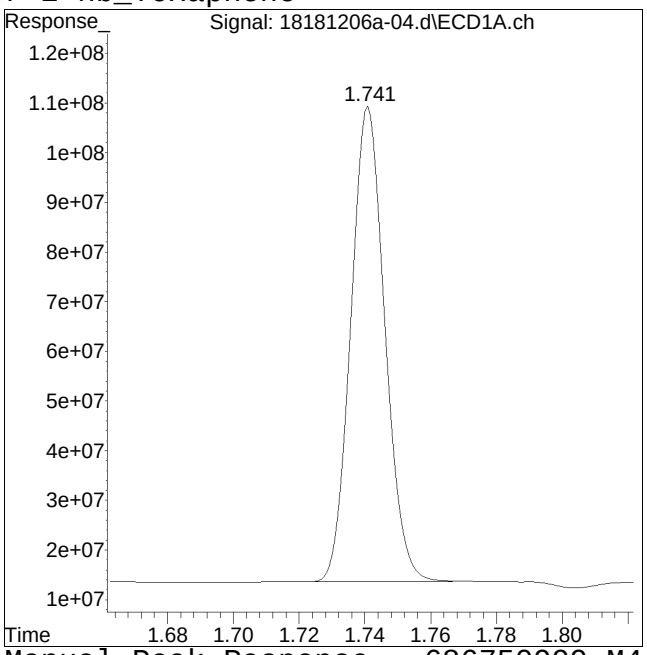


Manual Integration Report

Data Path : I:\Pest18\181206A\ QMethod : pest18_09_19_18_15103.m
Data File : 18181206a-04.d Operator : PEST18:amc
Date Inj'd : 12/6/2018 9:18 am Instrument : Pest 18
Sample : WG1186320-3,42e,,tox icv 9Quant Date : 12/6/2018 9:32 am

Compound #33: 1-br-2-nb_Toxaphene



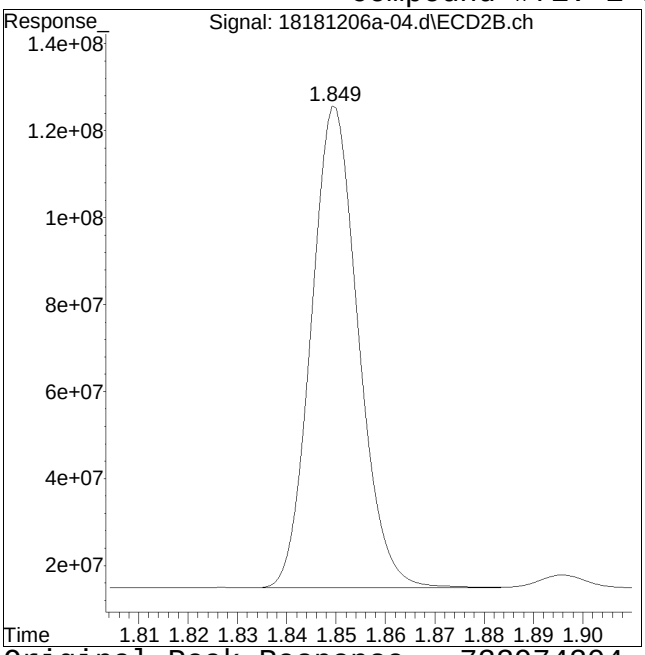


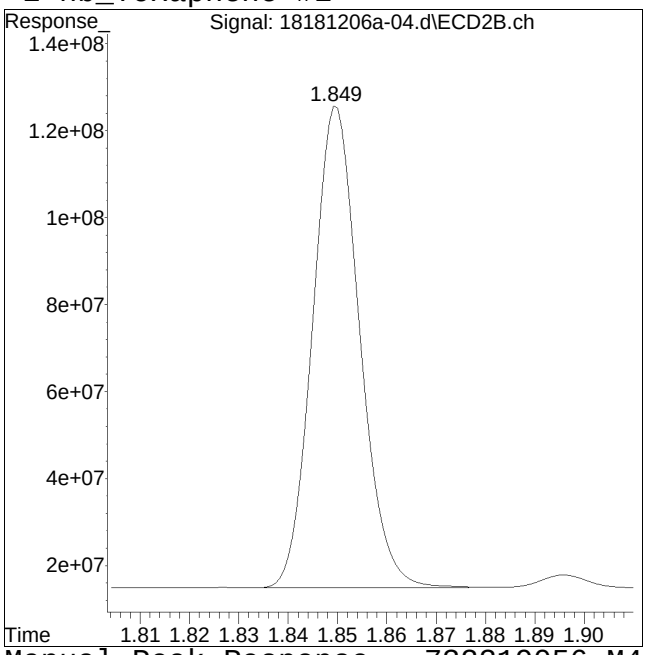
Original Peak Response = 688648965 Manual Peak Response = 686750999 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181206A\ QMethod : pest18_09_19_18_15103.m
Data File : 18181206a-04.d Operator : PEST18:amc
Date Inj'd : 12/6/2018 9:18 am Instrument : Pest 18
Sample : WG1186320-3,42e,,tox icv 9Quant Date : 12/6/2018 9:32 am

Compound #71: 1-br-2-nb_Toxaphene #2





Original Peak Response = 733974304 Manual Peak Response = 732319056 M4
M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\Pest18\181205c\
Data File : 18181205c-02.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 5 Dec 2018   5:57 pm
Operator : PEST18:sl
Sample   : wg1186046-1,42e,,pest icv 8985 (Sig #1); pest icv 8985 (Sig #2)
Misc   : wg1186046,ical15103
ALS Vial : 2   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 05 18:43:31 2018
Quant Method : I:\Pest18\181205c\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Wed Dec 05 09:59:15 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	25.000	25.000	0.0	139	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen	50.000	47.437	5.1	153	0.00
3		Hexachlorobenzene	50.000	49.571	0.9	163	0.00
4		alpha-BHC	50.000	43.171	13.7	144	0.00
5		gamma-BHC (lindane)	50.000	43.374	13.3	145	0.00
6		beta-BHC	50.000	44.530	10.9	145	0.00
7		delta-BHC	50.000	42.743	14.5	144	0.00
8		Heptachlor	50.000	45.994	8.0	147	0.00
9		Aldrin	50.000	46.566	6.9	149	0.00
10		Alachlor	50.000	42.932	14.1	152	0.00
11		Chlorpyrifos	50.000	46.084	7.8	140	0.00
12		Heptachlor Epoxide	50.000	48.931	2.1	156	0.00
13		gamma-Chlordane (trans)	50.000	44.983	10.0	149	0.00
14		alpha-Chlordane (cis)	50.000	44.663	10.7	146	0.00
15		4,4'-DDE	50.000	42.695	14.6	143	0.00
16		Endosulfan I	50.000	46.511	7.0	150	0.00
17		Dieldrin	50.000	48.140	3.7	157	0.00
18		Endrin	50.000	46.515	7.0	151	0.00
19		4,4'-DDD	50.000	41.986	16.0	139	0.00
20		Endosulfan II	50.000	44.821	10.4	141	0.00
21		4,4'-DDT	50.000	42.687	14.6	141	0.00
22		Endrin Aldehyde	50.000	43.477	13.0	143	0.00
23		Methoxychlor	50.000	42.189	15.6	129	0.00
24		Mirex	50.000	47.419	5.2	136	0.00
25		Endosulfan Sulfate	50.000	44.832	10.3	147	0.00
26		Endrin Ketone	50.000	46.291	7.4	147	0.00
27	s	Decachlorobiphenyl	50.000	47.368	5.3	156	0.00

Signal #2

Evaluate Continuing Calibration Report

Data Path : I:\Pest18\181205c\
Data File : 18181205c-02.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 5 Dec 2018   5:57 pm
Operator : PEST18:sl
Sample   : wg1186046-1,42e,,pest icv 8985 (Sig #1); pest icv 8985 (Sig #2)
Misc   : wg1186046,ical15103
ALS Vial : 2   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 05 18:43:31 2018
Quant Method : I:\Pest18\181205c\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Wed Dec 05 09:59:15 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	25.000	25.000	0.0	130	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl	50.000	48.637	2.7	147	0.00
3		Hexachlorobenzene	50.000	49.750	0.5	154	0.00
4		alpha-BHC	50.000	43.405	13.2	138	0.00
5		gamma-BHC (lindane)	50.000	43.294	13.4	137	0.00
6		beta-BHC	50.000	42.331	15.3	132	0.00
7		delta-BHC	50.000	42.128	15.7	134	0.00
8		Heptachlor	50.000	44.857	10.3	136	0.00
9		Aldrin	50.000	45.943	8.1	141	0.00
10		Alachlor	50.000	46.702	6.6	160	0.00
11		Chlorpyrifos	50.000	43.110	13.8	125	0.00
12		Heptachlor Epoxide	50.000	47.638	4.7	146	0.00
13		gamma-Chlordane (trans)	50.000	43.215	13.6	135	0.00
14		alpha-Chlordane (cis)	50.000	43.427	13.1	137	0.00
15		4,4'-DDE	50.000	43.050	13.9	137	0.00
16		Endosulfan I	50.000	43.688	12.6	134	0.00
17		Dieldrin	50.000	47.035	5.9	147	0.00
18		Endrin	50.000	45.296	9.4	139	0.00
19		4,4'-DDD	50.000	40.388	19.2	130	0.00
20		Endosulfan II	50.000	45.259	9.5	136	0.00
21		4,4'-DDT	50.000	42.057	15.9	131	0.00
22		Endrin Aldehyde	50.000	40.683	18.6	129	0.00
23		Methoxychlor	50.000	42.799	14.4	131	0.00
24		Mirex	50.000	45.961	8.1	127	0.00
25		Endosulfan Sulfate	50.000	42.763	14.5	134	0.00
26		Endrin Ketone	50.000	46.431	7.1	141	0.00
27	s	Decachlorobiphenyl	50.000	44.517	11.0	138	-0.01

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\Pest18\181205c\
Data File : 18181205c-02.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 5 Dec 2018   5:57 pm
Operator : PEST18:sl
Sample   : wg1186046-1,42e,,pest icv 8985 (Sig #1); pest icv 8985 (Sig #2)
Misc   : wg1186046,ical15103
ALS Vial : 2   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 05 18:43:31 2018
Quant Method : I:\Pest18\181205c\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Wed Dec 05 09:59:15 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	25.000	25.000	0.0	0	-1.74#
29	l1	chlordane-1	2500.000	0.000	100.0#	0	-3.07#
30	l1	chlordane-2	2500.000	0.000	100.0#	0	-3.13#
31	l1	chlordane-3	2500.000	0.000	100.0#	0	-3.95#
32	l1	chlordane-4	2500.000	0.000	100.0#	0	-4.05#
33	i	1-br-2-nb_Toxaphene	25.000	25.000	0.0	0	-1.74#
34	l2	toxaphene-1	5000.000	0.000	100.0#	0	-4.68#
35	l2	toxaphene-2	5000.000	0.000	100.0#	0	-4.77#
36	l2	toxaphene-3	5000.000	0.000	100.0#	0	-4.93#
37	l2	toxaphene-5	5000.000	0.000	100.0#	0	-5.23#

Signal #2

28	i	1-br-2-nb_Chlordane	25.000	25.000	0.0	0	-1.85#
29	l1	chlordane-1	2500.000	0.000	100.0#	0	-3.39#
30	l1	chlordane-2	2500.000	0.000	100.0#	0	-3.52#
31	l1	chlordane-3	2500.000	0.000	100.0#	0	-4.43#
32	l1	chlordane-4	2500.000	0.000	100.0#	0	-4.54#
33	i	1-br-2-nb_Toxaphene	25.000	25.000	0.0	0	-1.85#
34	l2	toxaphene-1	5000.000	0.000	100.0#	0	-5.14#
35	l2	toxaphene-2	5000.000	0.000	100.0#	0	-5.17#
36	l2	toxaphene-3	5000.000	0.000	100.0#	0	-5.24#
37	l2	toxaphene-5	5000.000	0.000	100.0#	0	-5.77#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\Pest18\181205c\
Data File : 18181205c-02.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 5 Dec 2018 5:57 pm
Operator : PEST18:sl
Sample : wg1186046-1,42e,,pest icv 8985 (Sig #1); pest icv 8985 (Sig #2)
Misc : wg1186046,ical15103
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 05 18:43:31 2018
Quant Method : I:\Pest18\181205c\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Wed Dec 05 09:59:15 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.743	1.854	730.5E6	821.0E6	25.000	25.000M4
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.209	2.435	1357.0E6	1569.7E6	47.437M4	48.637
	Spiked Amount 50.000	Range 30 - 150		Recovery =		94.87%	97.27%
27) s	Decachlorobi	6.168	6.750	1225.8E6	1148.8E6	47.368M4	44.517M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		94.74%	89.03%
	Target Compounds						
3)	Hexachlorobe	2.456	2.776	1421.4E6	1599.7E6	49.571	49.750
4)	alpha-BHC	2.567	2.877	2000.1E6	2302.4E6	43.171	43.405
5)	gamma-BHC (l	2.781	3.155	1807.1E6	2067.2E6	43.374M4	43.294
6)	beta-BHC	2.844	3.222	815.7E6	918.7E6	44.530	42.331
7)	delta-BHC	2.972	3.466	1834.0E6	2086.4E6	42.743	42.128
8)	Heptachlor	3.130	3.515	1821.1E6	2062.9E6	45.994	44.857
9)	Aldrin	3.358	3.796	1678.6E6	1912.2E6	46.566	45.943
10)	Alachlor	3.465	3.694	237.9E6	269.8E6	42.932	46.702
11)	Chlorpyrifos	3.553	3.986	873.8E6	955.6E6	46.084	43.110
12)	Heptachlor E	3.842	4.275	1595.2E6	1776.0E6	48.931	47.638M4
13)	gamma-Chlord	3.947	4.428	1656.4E6	1827.8E6	44.983	43.215M4
14)	alpha-Chlord	4.053	4.542	1581.6E6	1717.3E6	44.663	43.427
15)	4,4'-DDE	4.124	4.670	1470.9E6	1707.3E6	42.695	43.050
16)	Endosulfan I	4.156	4.588	1513.0E6	1614.1E6	46.511	43.688M4
17)	Dieldrin	4.344	4.799	1681.0E6	1843.4E6	48.140	47.035
18)	Endrin	4.518	5.026	1644.5E6	1752.0E6	46.515	45.296
19)	4,4'-DDD	4.584	5.102	1283.4E6	1397.2E6	41.986	40.388
20)	Endosulfan I	4.687	5.181	1415.9E6	1594.6E6	44.821	45.259M4
21)	4,4'-DDT	4.793	5.324	1431.3E6	1545.7E6	42.687	42.057
22)	Endrin Aldeh	4.990	5.418	1233.6E6	1265.1E6	43.477	40.683M4

Data Path : I:\Pest18\181205c\
Data File : 18181205c-02.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 5 Dec 2018 5:57 pm
Operator : PEST18:sl
Sample : wg1186046-1,42e,,pest icv 8985 (Sig #1); pest icv 8985 (Sig #2)
Misc : wg1186046,ical15103
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 05 18:43:31 2018
Quant Method : I:\Pest18\181205c\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Wed Dec 05 09:59:15 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
23)	Methoxychlor	5.157	5.794	703.6E6	770.4E6	42.189	42.799
24)	Mirex	5.234	5.942	1188.7E6	1161.8E6	47.419	45.961
25)	Endosulfan S	5.296	5.609	1471.8E6	1558.2E6	44.832	42.763M4
26)	Endrin Keton	5.486	5.973	1552.1E6	1653.3E6	46.291	46.431
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

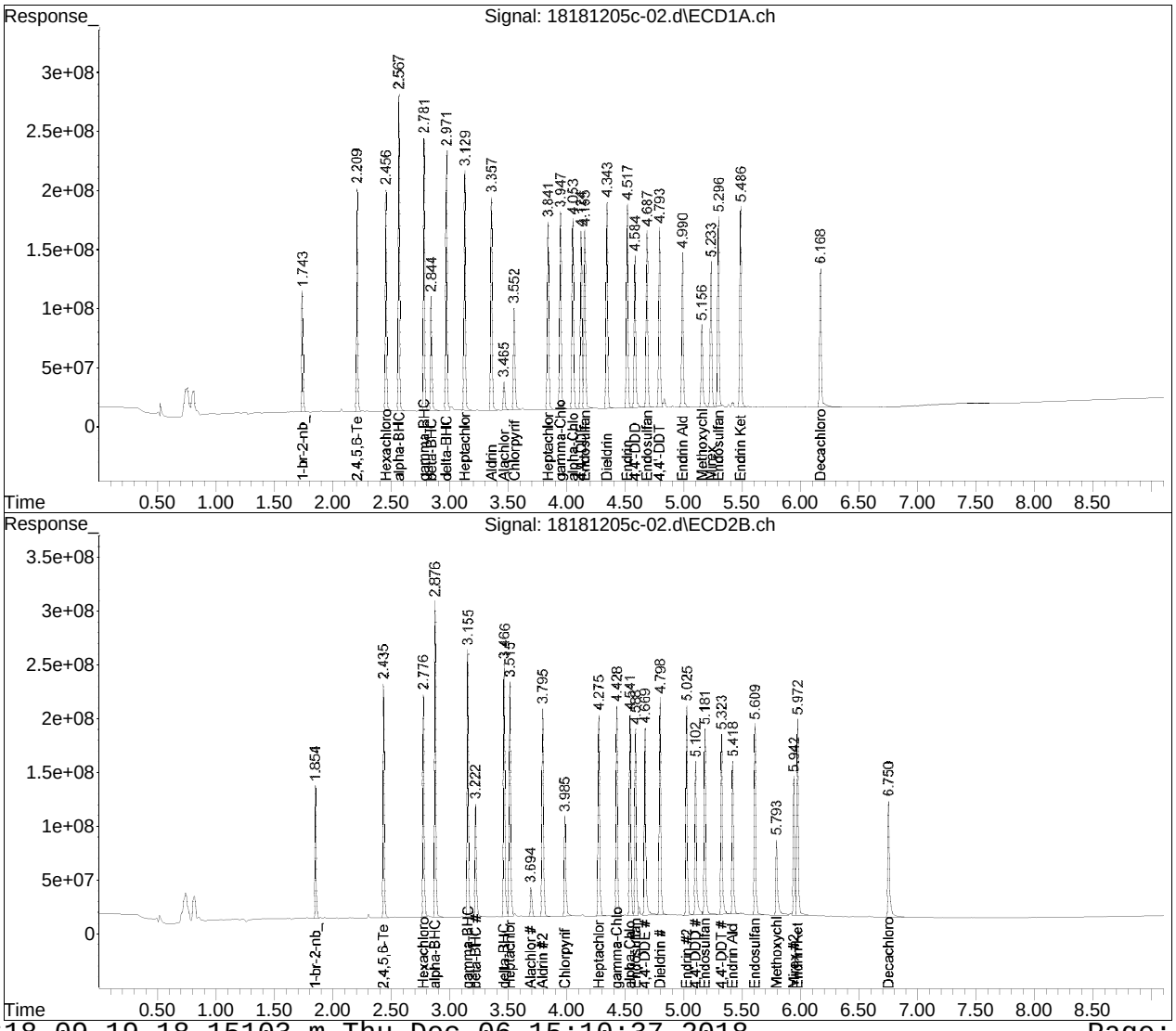
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest18\181205c\
Data File : 18181205c-02.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 5 Dec 2018 5:57 pm
Operator : PEST18:sl
Sample : wg1186046-1,42e,,pest icv 8985 (Sig #1); pest icv 8985 (Sig #2)
Misc : wg1186046,ical15103
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 05 18:43:31 2018
Quant Method : I:\Pest18\181205c\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Wed Dec 05 09:59:15 2018
Response via : Initial Calibration
Integrator: ChemStation

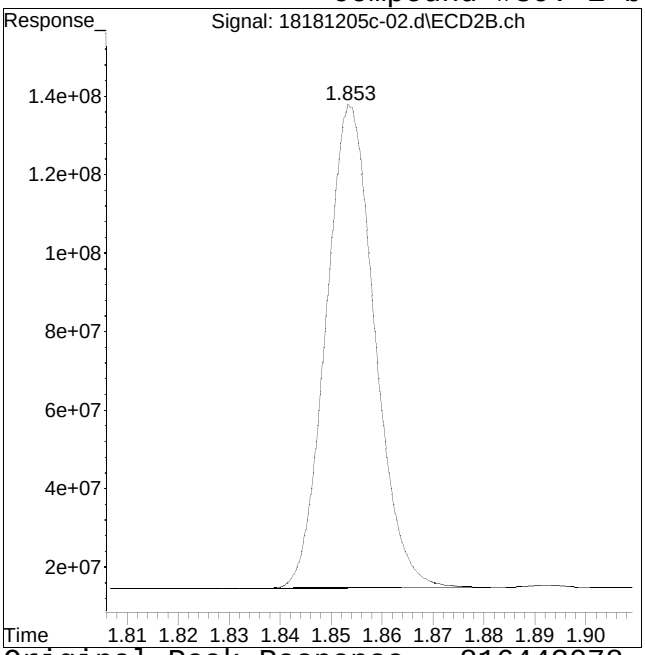
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



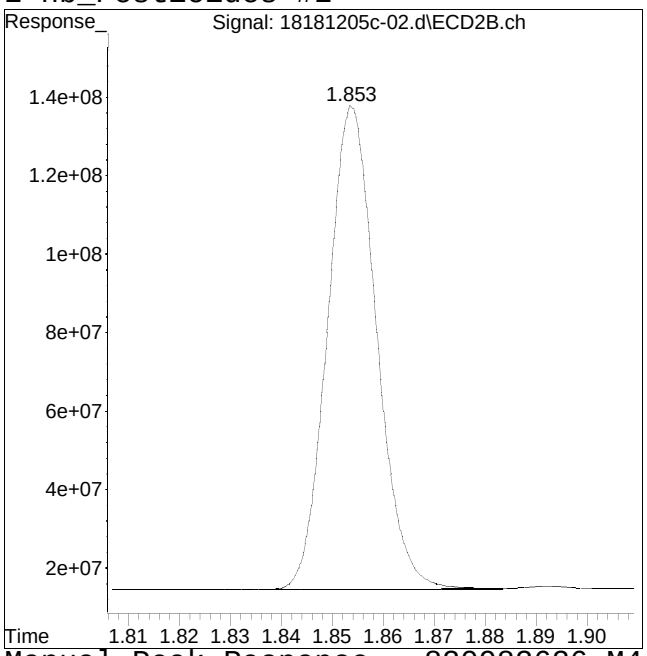
Manual Integration Report

Data Path : I:\Pest18\181205c\ QMethod : pest18_09_19_18_15103.m
Data File : 18181205c-02.d Operator : PEST18:sl
Date Inj'd : 12/5/2018 5:57 pm Instrument : Pest 18
Sample : wg1186046-1,42e,,pest icv Quant Date : 12/5/2018 6:40 pm

Compound #39: 1-br-2-nb_Pesticides #2



Original Peak Response = 816443078



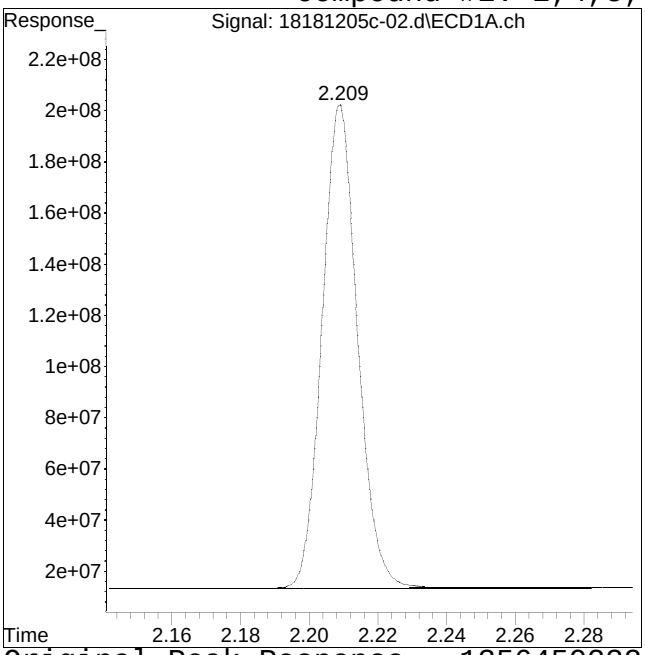
Manual Peak Response = 820983626 M4

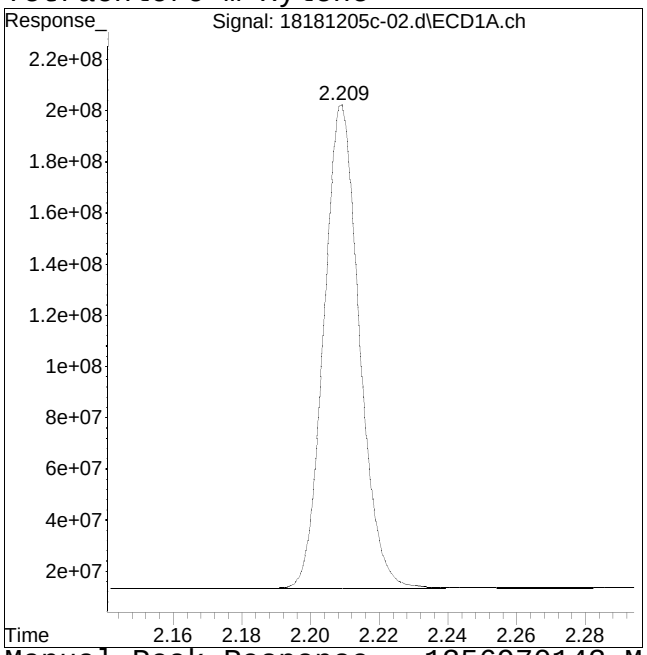
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181205c\ QMethod : pest18_09_19_18_15103.m
Data File : 18181205c-02.d Operator : PEST18:sl
Date Inj'd : 12/5/2018 5:57 pm Instrument : Pest 18
Sample : wg1186046-1,42e,,pest icv Quant Date : 12/5/2018 6:40 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



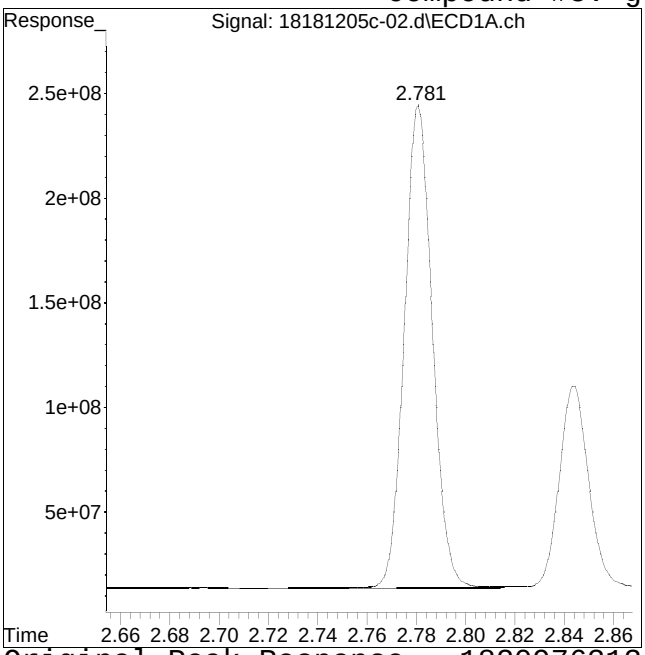


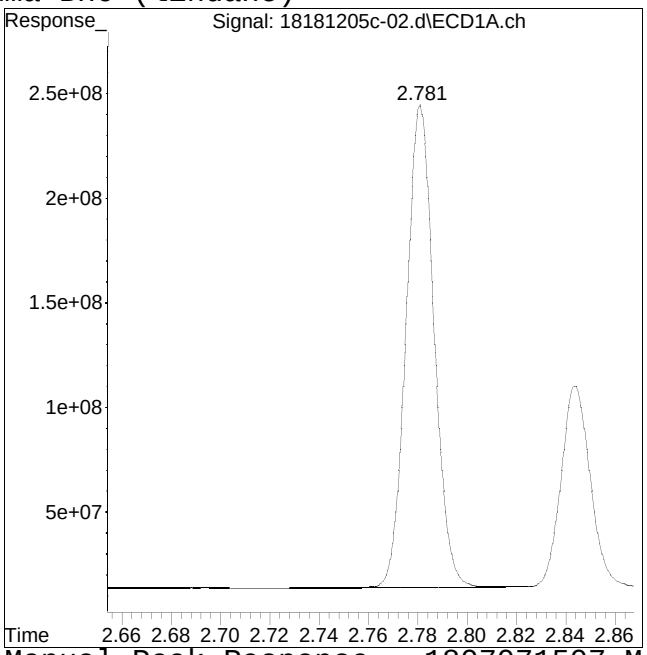
Original Peak Response = 1356459232 Manual Peak Response = 1356970143 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181205c\ QMethod : pest18_09_19_18_15103.m
Data File : 18181205c-02.d Operator : PEST18:sl
Date Inj'd : 12/5/2018 5:57 pm Instrument : Pest 18
Sample : wg1186046-1,42e,,pest icv Quant Date : 12/5/2018 6:40 pm

Compound #5: gamma-BHC (lindane)



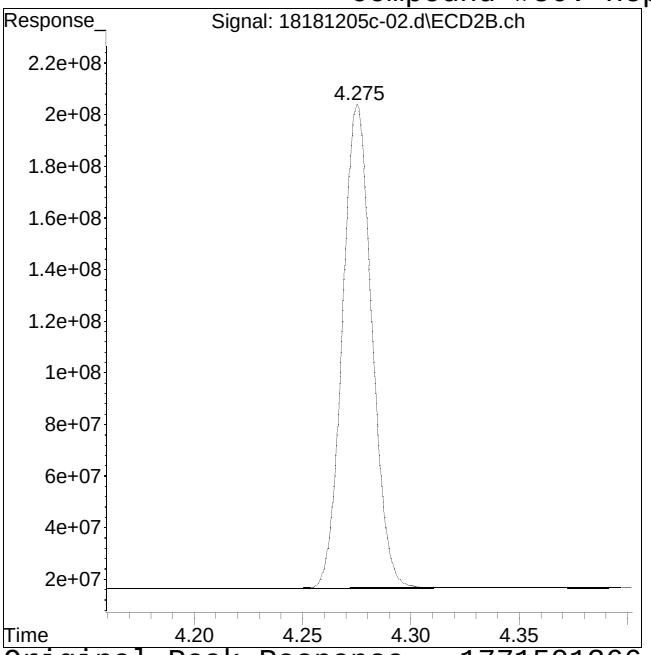


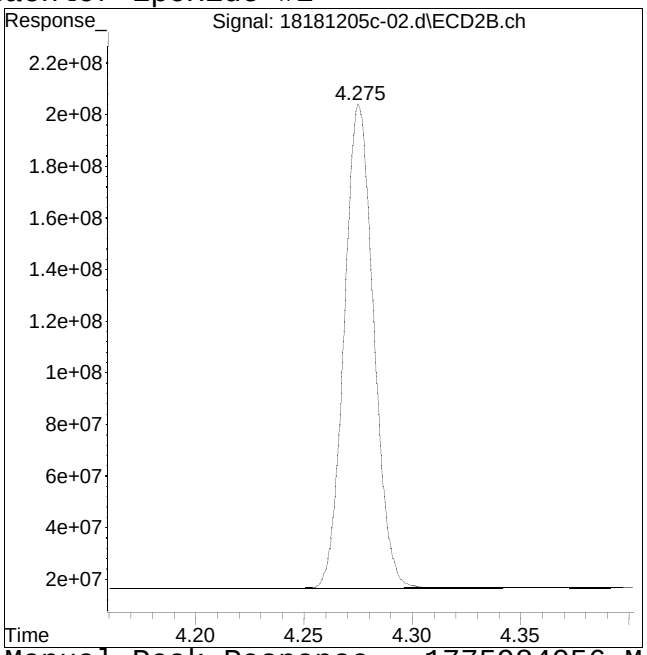
Original Peak Response = 1820976313 Manual Peak Response = 1807071507 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181205c\ QMethod : pest18_09_19_18_15103.m
Data File : 18181205c-02.d Operator : PEST18:sl
Date Inj'd : 12/5/2018 5:57 pm Instrument : Pest 18
Sample : wg1186046-1,42e,,pest icv Quant Date : 12/5/2018 6:40 pm

Compound #50: Heptachlor Epoxide #2



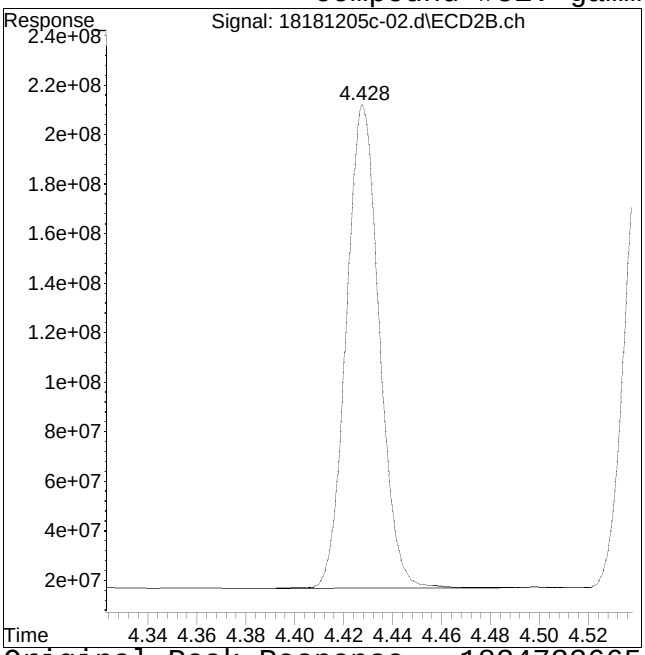


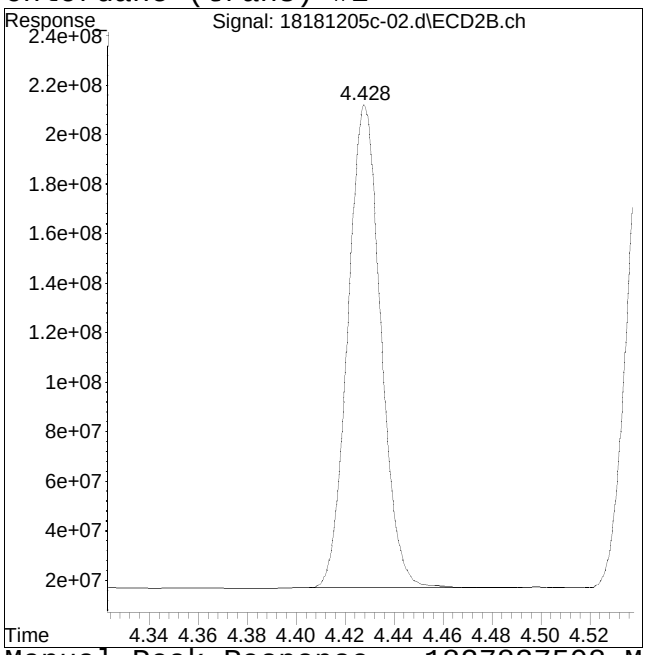
Original Peak Response = 1771501366 Manual Peak Response = 1775984056 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181205c\ QMethod : pest18_09_19_18_15103.m
Data File : 18181205c-02.d Operator : PEST18:sl
Date Inj'd : 12/5/2018 5:57 pm Instrument : Pest 18
Sample : wg1186046-1,42e,,pest icv Quant Date : 12/5/2018 6:40 pm

Compound #51: gamma-Chlordane (trans) #2



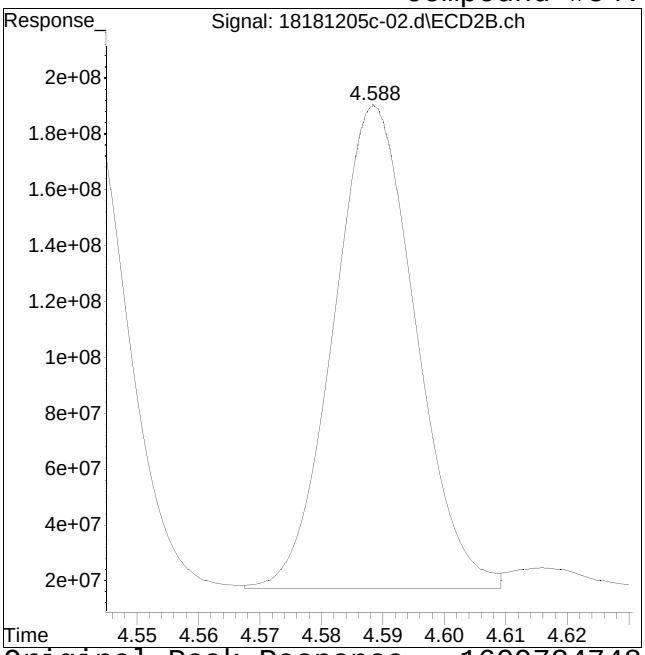


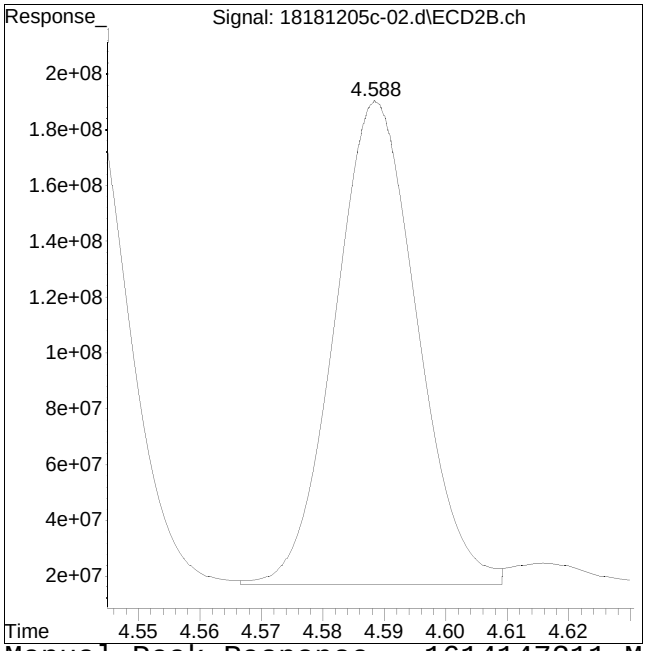
Original Peak Response = 1834733665 Manual Peak Response = 1827837508 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181205c\ QMethod : pest18_09_19_18_15103.m
Data File : 18181205c-02.d Operator : PEST18:sl
Date Inj'd : 12/5/2018 5:57 pm Instrument : Pest 18
Sample : wg1186046-1,42e,,pest icv Quant Date : 12/5/2018 6:40 pm

Compound #54: Endosulfan I #2



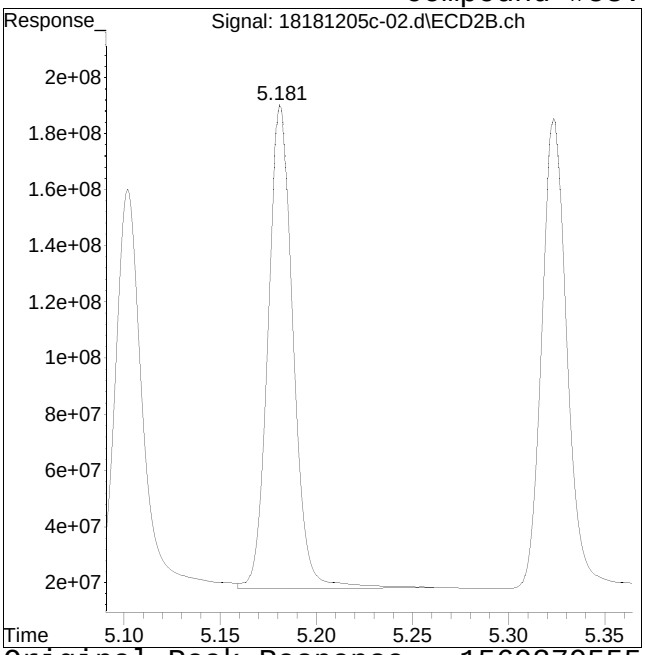


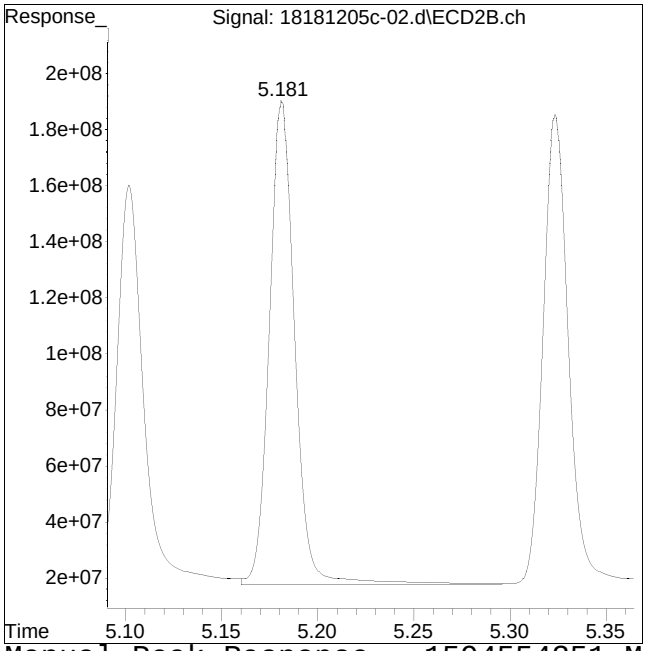
Original Peak Response = 1609724748 Manual Peak Response = 1614147211 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181205c\ QMethod : pest18_09_19_18_15103.m
Data File : 18181205c-02.d Operator : PEST18:sl
Date Inj'd : 12/5/2018 5:57 pm Instrument : Pest 18
Sample : wg1186046-1,42e,,pest icv Quant Date : 12/5/2018 6:40 pm

Compound #58: Endosulfan II #2



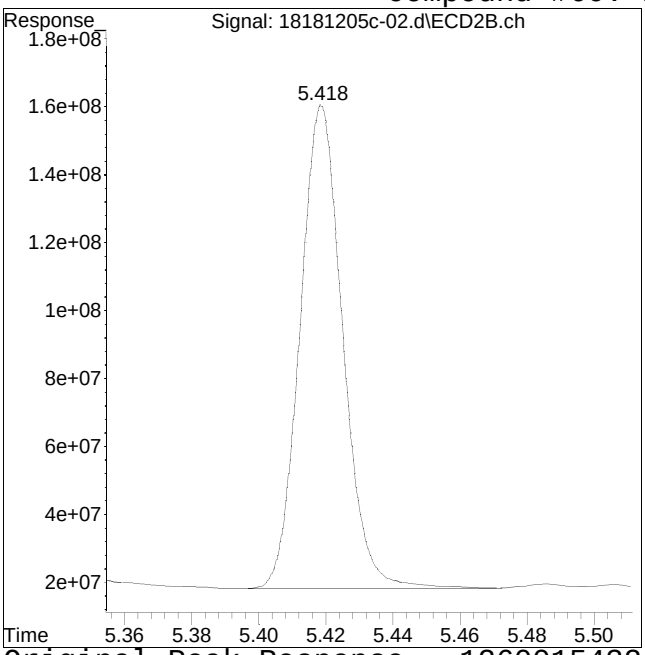


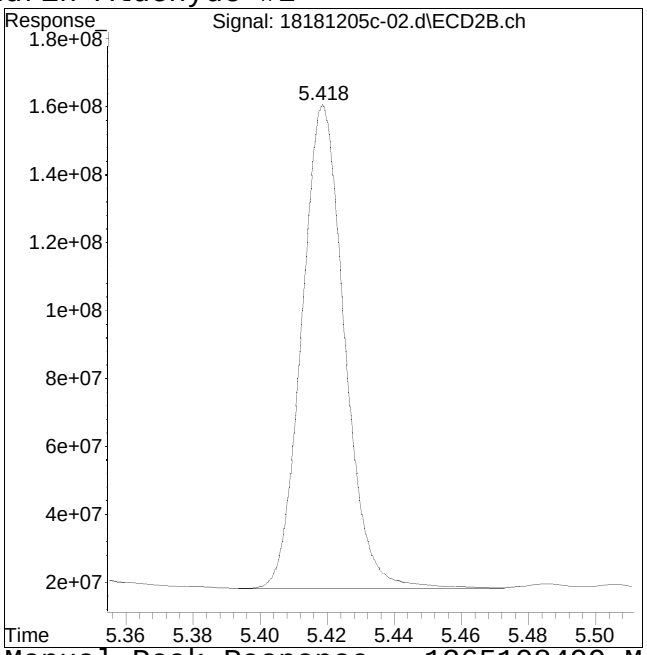
Original Peak Response = 1569379555 Manual Peak Response = 1594554351 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181205c\ QMethod : pest18_09_19_18_15103.m
Data File : 18181205c-02.d Operator : PEST18:sl
Date Inj'd : 12/5/2018 5:57 pm Instrument : Pest 18
Sample : wg1186046-1,42e,,pest icv Quant Date : 12/5/2018 6:40 pm

Compound #60: Endrin Aldehyde #2



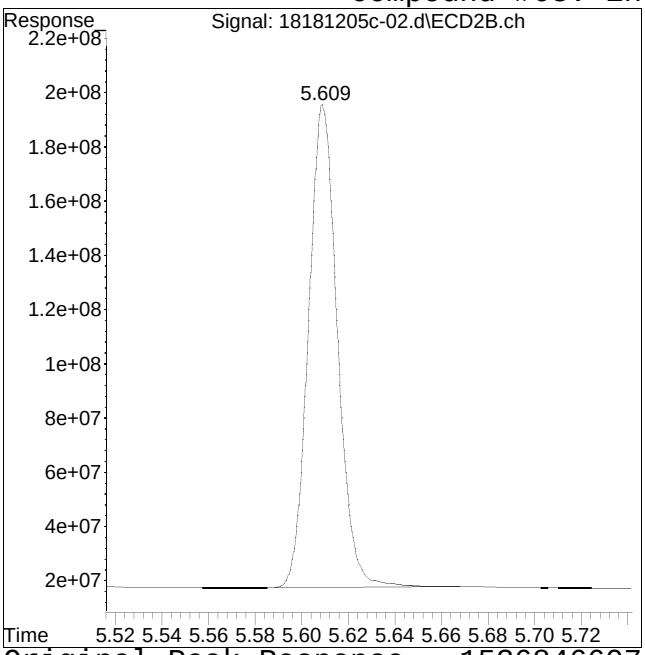


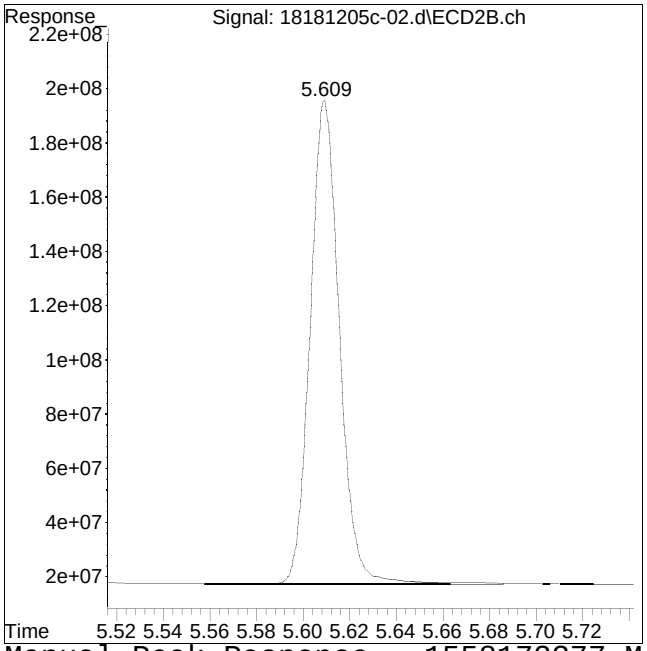
Original Peak Response = 1260015432 Manual Peak Response = 1265108499 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181205c\ QMethod : pest18_09_19_18_15103.m
Data File : 18181205c-02.d Operator : PEST18:sl
Date Inj'd : 12/5/2018 5:57 pm Instrument : Pest 18
Sample : wg1186046-1,42e,,pest icv Quant Date : 12/5/2018 6:40 pm

Compound #63: Endosulfan Sulfate #2



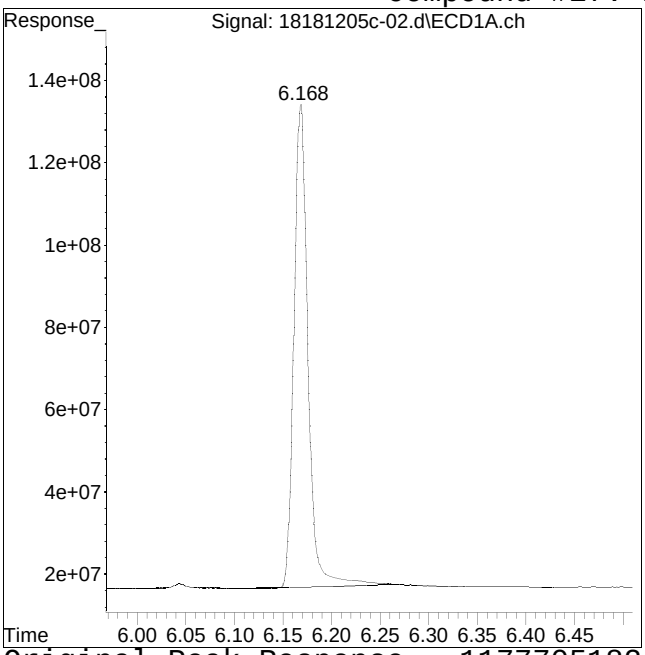


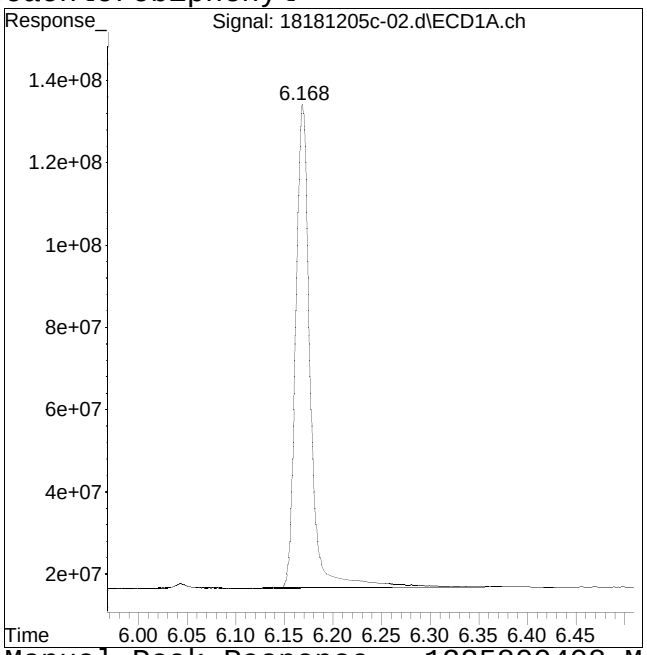
Original Peak Response = 1536846607 Manual Peak Response = 1558172377 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181205c\ QMethod : pest18_09_19_18_15103.m
Data File : 18181205c-02.d Operator : PEST18:sl
Date Inj'd : 12/5/2018 5:57 pm Instrument : Pest 18
Sample : wg1186046-1,42e,,pest icv Quant Date : 12/5/2018 6:40 pm

Compound #27: Decachlorobiphenyl



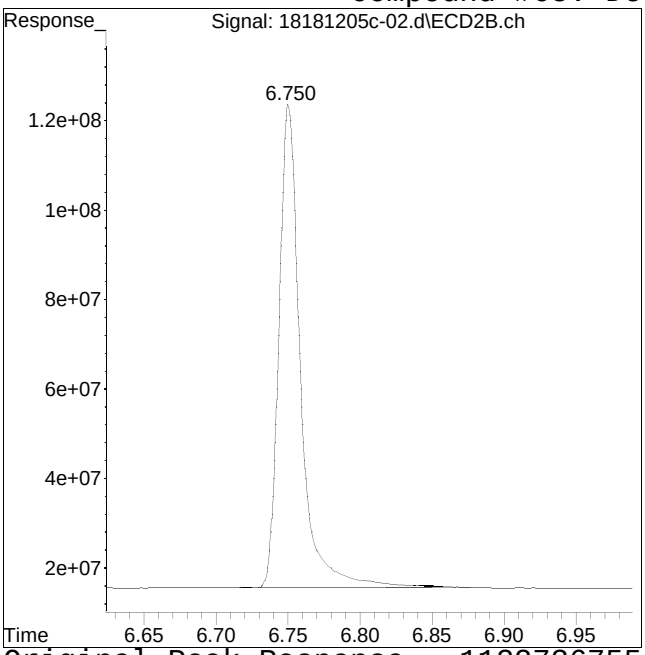


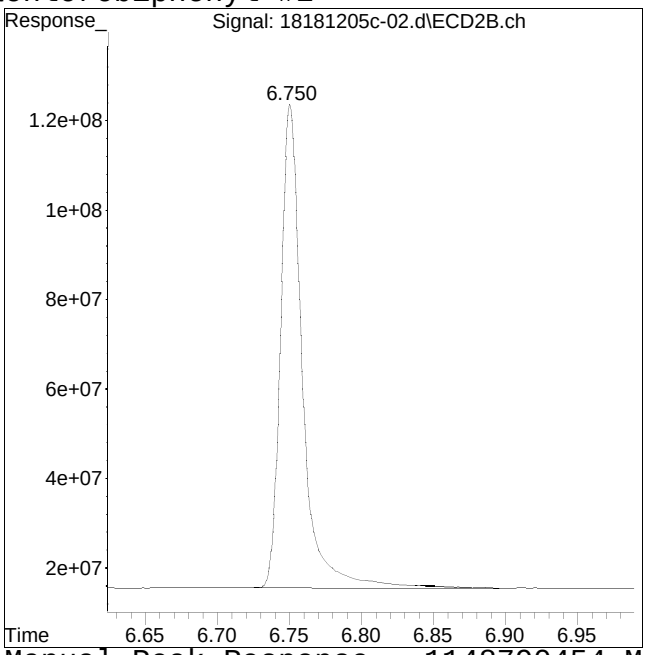
Original Peak Response = 1177705182 Manual Peak Response = 1225800408 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181205c\ QMethod : pest18_09_19_18_15103.m
Data File : 18181205c-02.d Operator : PEST18:sl
Date Inj'd : 12/5/2018 5:57 pm Instrument : Pest 18
Sample : wg1186046-1,42e,,pest icv Quant Date : 12/5/2018 6:40 pm

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 1122736755 Manual Peak Response = 1148790454 M4
M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\Pest18\181205c\
Data File : 18181205c-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 5 Dec 2018   6:10 pm
Operator : PEST18:sl
Sample   : wg1186046-2,42e,,chlor icv 8983 (Sig #1); chlor icv 8983 (Sig #2)
Misc   : wg1186046,ical15103
ALS Vial : 3   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 05 18:45:13 2018
Quant Method : I:\Pest18\181205c\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Wed Dec 05 18:43:41 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	25.000	25.000	0.0	127	0.00
29	l1	chlordane-1	1000.000	1026.428	-2.6	128	0.00
30	l1	chlordane-2	1000.000	821.057	17.9	100	0.00
31	l1	chlordane-3	1000.000	1017.199	-1.7	128	0.00
32	l1	chlordane-4	1000.000	1027.963	-2.8	128	0.00

Signal #2

28	i	1-br-2-nb_Chlordane	25.000	25.000	0.0	121	0.00
29	l1	chlordane-1	1000.000	999.031	0.1	118	0.00
30	l1	chlordane-2	1000.000	806.443	19.4	93	0.00
31	l1	chlordane-3	1000.000	1098.834	-9.9	129	0.00
32	l1	chlordane-4	1000.000	986.728	1.3	114	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	25.000	25.000	0.0	0	-1.74#
2	s	2,4,5,6-Tetrachloro-m-xylen	10.000	0.000	100.0#	0	-2.21#
3		Hexachlorobenzene	10.000	0.000	100.0#	0	-2.46#
4		alpha-BHC	10.000	0.000	100.0#	0	-2.57#
5		gamma-BHC (lindane)	10.000	0.000	100.0#	0	-2.78#
6		beta-BHC	10.000	0.000	100.0#	0	-2.85#
7		delta-BHC	10.000	0.000	100.0#	0	-2.97#
8		Heptachlor	10.000	0.000	100.0#	0	-3.13#
9		Aldrin	10.000	0.000	100.0#	0	-3.36#
10		Alachlor	10.000	0.000	100.0#	0	-3.47#
11		Chlorpyrifos	10.000	0.000	100.0#	0	-3.55#
12		Heptachlor Epoxide	10.000	0.000	100.0#	0	-3.84#
13		gamma-Chlordane (trans)	10.000	0.000	100.0#	0	-3.95#

Evaluate Continuing Calibration Report

Data Path : I:\Pest18\181205c\
Data File : 18181205c-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 5 Dec 2018   6:10 pm
Operator : PEST18:sl
Sample   : wg1186046-2,42e,,chlor icv 8983 (Sig #1); chlor icv 8983 (Sig #2)
Misc   : wg1186046,ical15103
ALS Vial : 3   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 05 18:45:13 2018
Quant Method : I:\Pest18\181205c\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Wed Dec 05 18:43:41 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
14		alpha-Chlordane (cis)	10.000	0.000	100.0#	0	-4.06#
15		4,4'-DDE	10.000	0.000	100.0#	0	-4.13#
16		Endosulfan I	10.000	0.000	100.0#	0	-4.16#
17		Dieldrin	10.000	0.000	100.0#	0	-4.35#
18		Endrin	10.000	0.000	100.0#	0	-4.52#
19		4,4'-DDD	10.000	0.000	100.0#	0	-4.59#
20		Endosulfan II	10.000	0.000	100.0#	0	-4.69#
21		4,4'-DDT	10.000	0.000	100.0#	0	-4.80#
22		Endrin Aldehyde	10.000	0.000	100.0#	0	-4.99#
23		Methoxychlor	10.000	0.000	100.0#	0	-5.16#
24		Mirex	10.000	0.000	100.0#	0	-5.24#
25		Endosulfan Sulfate	10.000	0.000	100.0#	0	-5.30#
26		Endrin Ketone	10.000	0.000	100.0#	0	-5.49#
27	s	Decachlorobiphenyl	10.000	0.000	100.0#	0	-6.17#
33	i	1-br-2-nb_Toxaphene	25.000	25.000	0.0	0	-1.74#
34	l2	toxaphene-1	2000.000	0.000	100.0#	0	-4.68#
35	l2	toxaphene-2	2000.000	0.000	100.0#	0	-4.77#
36	l2	toxaphene-3	2000.000	0.000	100.0#	0	-4.93#
37	l2	toxaphene-5	2000.000	0.000	100.0#	0	-5.23#

Signal #2

1	i	1-br-2-nb_Pesticides	25.000	25.000	0.0	0	-1.85#
2	s	2,4,5,6-Tetrachloro-m-xyl	10.000	0.000	100.0#	0	-2.44#
3		Hexachlorobenzene	10.000	0.000	100.0#	0	-2.78#
4		alpha-BHC	10.000	0.000	100.0#	0	-2.88#
5		gamma-BHC (lindane)	10.000	0.000	100.0#	0	-3.16#
6		beta-BHC	10.000	0.000	100.0#	0	-3.22#
7		delta-BHC	10.000	0.000	100.0#	0	-3.47#

Evaluate Continuing Calibration Report

Data Path : I:\Pest18\181205c\
Data File : 18181205c-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 5 Dec 2018   6:10 pm
Operator : PEST18:sl
Sample   : wg1186046-2,42e,,chlor icv 8983 (Sig #1); chlor icv 8983 (Sig #2)
Misc   : wg1186046,ical15103
ALS Vial : 3   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 05 18:45:13 2018
Quant Method : I:\Pest18\181205c\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Wed Dec 05 18:43:41 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
8		Heptachlor	10.000	0.000	100.0#	0	-3.52#
9		Aldrin	10.000	0.000	100.0#	0	-3.80#
10		Alachlor	10.000	0.000	100.0#	0	-3.70#
11		Chlorpyrifos	10.000	0.000	100.0#	0	-3.99#
12		Heptachlor Epoxide	10.000	0.000	100.0#	0	-4.28#
13		gamma-Chlordane (trans)	10.000	0.000	100.0#	0	-4.43#
14		alpha-Chlordane (cis)	10.000	0.000	100.0#	0	-4.54#
15		4,4'-DDE	10.000	0.000	100.0#	0	-4.67#
16		Endosulfan I	10.000	0.000	100.0#	0	-4.59#
17		Dieldrin	10.000	0.000	100.0#	0	-4.80#
18		Endrin	10.000	0.000	100.0#	0	-5.03#
19		4,4'-DDD	10.000	0.000	100.0#	0	-5.10#
20		Endosulfan II	10.000	0.000	100.0#	0	-5.18#
21		4,4'-DDT	10.000	0.000	100.0#	0	-5.32#
22		Endrin Aldehyde	10.000	0.000	100.0#	0	-5.42#
23		Methoxychlor	10.000	0.000	100.0#	0	-5.80#
24		Mirex	10.000	0.000	100.0#	0	-5.95#
25		Endosulfan Sulfate	10.000	0.000	100.0#	0	-5.61#
26		Endrin Ketone	10.000	0.000	100.0#	0	-5.98#
27	s	Decachlorobiphenyl	10.000	0.000	100.0#	0	-6.76#
33	i	1-br-2-nb_Toxaphene	25.000	25.000	0.0	0	-1.85#
34	l2	toxaphene-1	2000.000	0.000	100.0#	0	-5.14#
35	l2	toxaphene-2	2000.000	0.000	100.0#	0	-5.17#
36	l2	toxaphene-3	2000.000	0.000	100.0#	0	-5.24#
37	l2	toxaphene-5	2000.000	0.000	100.0#	0	-5.77#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\Pest18\181205c\
Data File : 18181205c-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 5 Dec 2018 6:10 pm
Operator : PEST18:sl
Sample : wg1186046-2,42e,,chlor icv 8983 (Sig #1); chlor icv 8983 (Sig #2)
Misc : wg1186046,ical15103
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 05 18:45:13 2018
Quant Method : I:\Pest18\181205c\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Wed Dec 05 18:43:41 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	1.743	1.854	685.4E6	765.3E6	25.000M4	25.000
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount	50.000	Range 30 - 150		Recovery =	0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Quantitation Report (QT Reviewed)

Data Path : I:\Pest18\181205c\
Data File : 18181205c-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 5 Dec 2018 6:10 pm
Operator : PEST18:sl
Sample : wg1186046-2,42e,,chlor icv 8983 (Sig #1); chlor icv 8983 (Sig #2)
Misc : wg1186046,ical15103
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 05 18:45:13 2018
Quant Method : I:\Pest18\181205c\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Wed Dec 05 18:43:41 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)	Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)	Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)	Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29) l1	chlordane-1	3.066	3.394	874.0E6	986.5E6	1026.428	999.031
30) l1	chlordane-2	3.131	3.516	1380.3E6	1611.0E6	821.057	806.443
31) l1	chlordane-3	3.949	4.429	3641.0E6	3729.4E6	1017.199	1098.834
32) l1	chlordane-4	4.048	4.542	5661.2E6	2880.7E6	1027.963	986.728
Sum	chlordane-1			11556.6E6	9207.6E6	N.D.	N.D. D
Average	chlordane-1					973.162	972.759
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

SemiQuant Compounds - Not Calibrated on this Instrument

Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

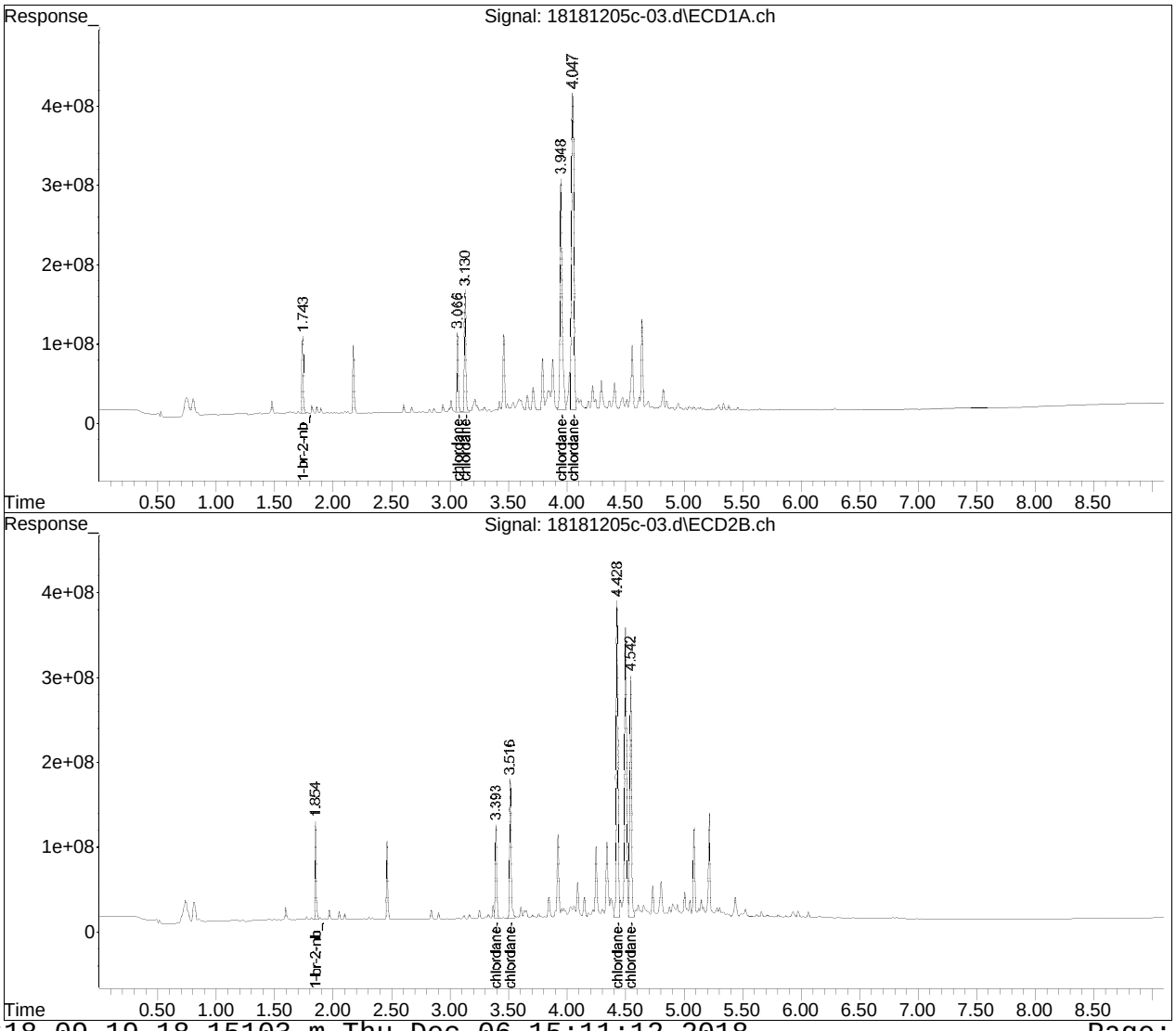
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest18\181205c\
Data File : 18181205c-03.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 5 Dec 2018 6:10 pm
Operator : PEST18:sl
Sample : wg1186046-2,42e,,chlor icv 8983 (Sig #1); chlor icv 8983 (Sig #2)
Misc : wg1186046,ical15103
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 05 18:45:13 2018
Quant Method : I:\Pest18\181205c\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Wed Dec 05 18:43:41 2018
Response via : Initial Calibration
Integrator: ChemStation

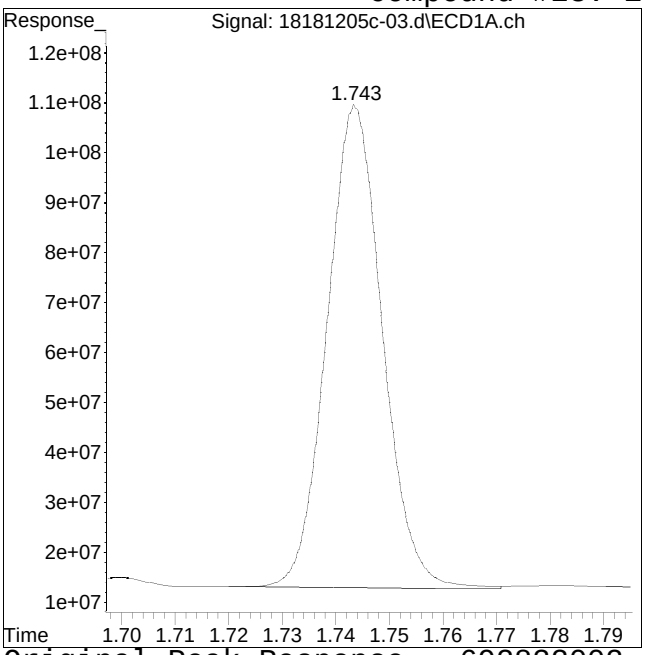
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

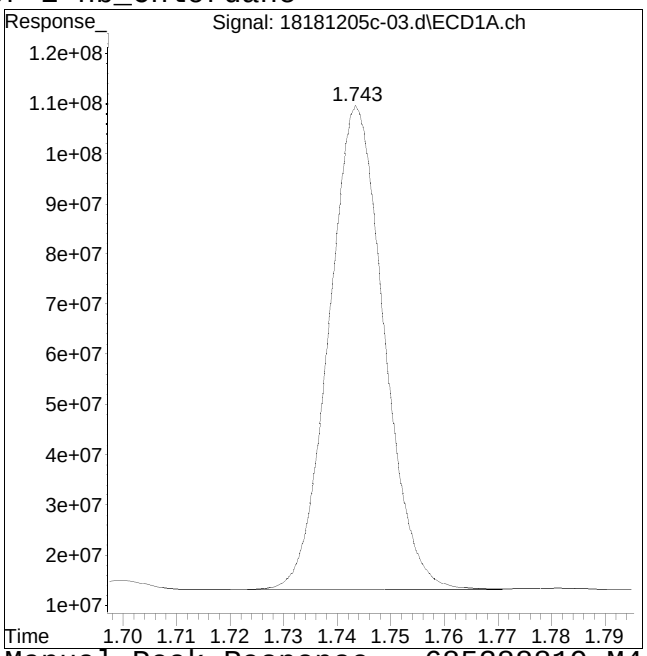


Manual Integration Report

Data Path : I:\Pest18\181205c\ QMethod : pest18_09_19_18_15103.m
Data File : 18181205c-03.d Operator : PEST18:sl
Date Inj'd : 12/5/2018 6:10 pm Instrument : Pest 18
Sample : wg1186046-2,42e,,chlor icv Quant Date : 12/5/2018 6:43 pm

Compound #28: 1-br-2-nb_Chlordane





Original Peak Response = 692832002 Manual Peak Response = 685388819 M4
M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\Pest18\181205c\
Data File : 18181205c-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 5 Dec 2018   6:23 pm
Operator : PEST18:sl
Sample   : wg1186046-3,42e,,tox icv 9034 (Sig #1); tox icv 9034 (Sig #2)
Misc   : wg1186046,ical15103
ALS Vial : 4   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 05 18:46:34 2018
Quant Method : I:\Pest18\181205c\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Wed Dec 05 18:45:20 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
33	i	1-br-2-nb_Toxaphene	25.000	25.000	0.0	150	0.00
34	l2	toxaphene-1	2000.000	1862.773	6.9	140	0.00
35	l2	toxaphene-2	2000.000	1846.719	7.7	139	0.00
36	l2	toxaphene-3	2000.000	1928.326	3.6	145	0.00
37	l2	toxaphene-5	2000.000	1786.432	10.7	134	0.00

Signal #2

33	i	1-br-2-nb_Toxaphene	25.000	25.000	0.0	142	0.00
34	l2	toxaphene-1	2000.000	1823.748	8.8	129	0.00
35	l2	toxaphene-2	2000.000	1852.169	7.4	131	0.00
36	l2	toxaphene-3	2000.000	1774.070	11.3	126	0.00
37	l2	toxaphene-5	2000.000	1717.056	14.1	122	0.00

Evaluate Continuing Calibration Report - Not Founds

1	i	1-br-2-nb_Pesticides	25.000	25.000	0.0	0	-1.74#
2	s	2,4,5,6-Tetrachloro-m-xylen	10.000	0.000	100.0#	0	-2.21#
3		Hexachlorobenzene	10.000	0.000	100.0#	0	-2.46#
4		alpha-BHC	10.000	0.000	100.0#	0	-2.57#
5		gamma-BHC (lindane)	10.000	0.000	100.0#	0	-2.78#
6		beta-BHC	10.000	0.000	100.0#	0	-2.85#
7		delta-BHC	10.000	0.000	100.0#	0	-2.97#
8		Heptachlor	10.000	0.000	100.0#	0	-3.13#
9		Aldrin	10.000	0.000	100.0#	0	-3.36#
10		Alachlor	10.000	0.000	100.0#	0	-3.47#
11		Chlorpyrifos	10.000	0.000	100.0#	0	-3.55#
12		Heptachlor Epoxide	10.000	0.000	100.0#	0	-3.84#
13		gamma-Chlordane (trans)	10.000	0.000	100.0#	0	-3.95#

Evaluate Continuing Calibration Report

Data Path : I:\Pest18\181205c\
Data File : 18181205c-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 5 Dec 2018   6:23 pm
Operator : PEST18:sl
Sample   : wg1186046-3,42e,,tox icv 9034 (Sig #1); tox icv 9034 (Sig #2)
Misc   : wg1186046,ical15103
ALS Vial : 4   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 05 18:46:34 2018
Quant Method : I:\Pest18\181205c\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Wed Dec 05 18:45:20 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
14		alpha-Chlordane (cis)	10.000	0.000	100.0#	0	-4.06#
15		4,4'-DDE	10.000	0.000	100.0#	0	-4.13#
16		Endosulfan I	10.000	0.000	100.0#	0	-4.16#
17		Dieldrin	10.000	0.000	100.0#	0	-4.35#
18		Endrin	10.000	0.000	100.0#	0	-4.52#
19		4,4'-DDD	10.000	0.000	100.0#	0	-4.59#
20		Endosulfan II	10.000	0.000	100.0#	0	-4.69#
21		4,4'-DDT	10.000	0.000	100.0#	0	-4.80#
22		Endrin Aldehyde	10.000	0.000	100.0#	0	-4.99#
23		Methoxychlor	10.000	0.000	100.0#	0	-5.16#
24		Mirex	10.000	0.000	100.0#	0	-5.24#
25		Endosulfan Sulfate	10.000	0.000	100.0#	0	-5.30#
26		Endrin Ketone	10.000	0.000	100.0#	0	-5.49#
27	s	Decachlorobiphenyl	10.000	0.000	100.0#	0	-6.17#
28	i	1-br-2-nb_Chlordane	25.000	25.000	0.0	0	-1.74#
29	l1	chlordane-1	1000.000	0.000	100.0#	0	-3.07#
30	l1	chlordane-2	1000.000	0.000	100.0#	0	-3.13#
31	l1	chlordane-3	1000.000	0.000	100.0#	0	-3.95#
32	l1	chlordane-4	1000.000	0.000	100.0#	0	-4.05#

Signal #2

1	i	1-br-2-nb_Pesticides	25.000	25.000	0.0	0	-1.85#
2	s	2,4,5,6-Tetrachloro-m-xyl	10.000	0.000	100.0#	0	-2.44#
3		Hexachlorobenzene	10.000	0.000	100.0#	0	-2.78#
4		alpha-BHC	10.000	0.000	100.0#	0	-2.88#
5		gamma-BHC (lindane)	10.000	0.000	100.0#	0	-3.16#
6		beta-BHC	10.000	0.000	100.0#	0	-3.22#
7		delta-BHC	10.000	0.000	100.0#	0	-3.47#

Evaluate Continuing Calibration Report

Data Path : I:\Pest18\181205c\
Data File : 18181205c-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 5 Dec 2018   6:23 pm
Operator : PEST18:sl
Sample   : wg1186046-3,42e,,tox icv 9034 (Sig #1); tox icv 9034 (Sig #2)
Misc   : wg1186046,ical15103
ALS Vial : 4   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 05 18:46:34 2018
Quant Method : I:\Pest18\181205c\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Wed Dec 05 18:45:20 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
8		Heptachlor	10.000	0.000	100.0#	0	-3.52#
9		Aldrin	10.000	0.000	100.0#	0	-3.80#
10		Alachlor	10.000	0.000	100.0#	0	-3.70#
11		Chlorpyrifos	10.000	0.000	100.0#	0	-3.99#
12		Heptachlor Epoxide	10.000	0.000	100.0#	0	-4.28#
13		gamma-Chlordane (trans)	10.000	0.000	100.0#	0	-4.43#
14		alpha-Chlordane (cis)	10.000	0.000	100.0#	0	-4.54#
15		4,4'-DDE	10.000	0.000	100.0#	0	-4.67#
16		Endosulfan I	10.000	0.000	100.0#	0	-4.59#
17		Dieldrin	10.000	0.000	100.0#	0	-4.80#
18		Endrin	10.000	0.000	100.0#	0	-5.03#
19		4,4'-DDD	10.000	0.000	100.0#	0	-5.10#
20		Endosulfan II	10.000	0.000	100.0#	0	-5.18#
21		4,4'-DDT	10.000	0.000	100.0#	0	-5.32#
22		Endrin Aldehyde	10.000	0.000	100.0#	0	-5.42#
23		Methoxychlor	10.000	0.000	100.0#	0	-5.80#
24		Mirex	10.000	0.000	100.0#	0	-5.95#
25		Endosulfan Sulfate	10.000	0.000	100.0#	0	-5.61#
26		Endrin Ketone	10.000	0.000	100.0#	0	-5.98#
27	s	Decachlorobiphenyl	10.000	0.000	100.0#	0	-6.76#
28	i	1-br-2-nb_Chlordane	25.000	25.000	0.0	0	-1.85#
29	l1	chlordane-1	1000.000	0.000	100.0#	0	-3.39#
30	l1	chlordane-2	1000.000	0.000	100.0#	0	-3.52#
31	l1	chlordane-3	1000.000	0.000	100.0#	0	-4.43#
32	l1	chlordane-4	1000.000	0.000	100.0#	0	-4.54#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\Pest18\181205c\
Data File : 18181205c-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 5 Dec 2018 6:23 pm
Operator : PEST18:sl
Sample : wg1186046-3,42e,,tox icv 9034 (Sig #1); tox icv 9034 (Sig #2)
Misc : wg1186046,ical15103
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 05 18:46:34 2018
Quant Method : I:\Pest18\181205c\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Wed Dec 05 18:45:20 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	0.000	0.000	0	0	N.D. d	N.D. d
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	1.745	1.855	733.5E6	810.8E6	25.000	25.000M4
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
27) s	Decachlorobi	0.000	0.000	0	0	N.D. d	N.D. d
	Spiked Amount 50.000	Range 30 - 150		Recovery =		0.00%#	0.00%#
	Target Compounds						
3)	Hexachlorobe	0.000	0.000	0	0	N.D. d	N.D. d
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
5)	gamma-BHC (l	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
10)	Alachlor	0.000	0.000	0	0	N.D. d	N.D. d
11)	Chlorpyrifos	0.000	0.000	0	0	N.D. d	N.D. d
12)	Heptachlor E	0.000	0.000	0	0	N.D. d	N.D. d
13)	gamma-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
14)	alpha-Chlord	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
22)	Endrin Aldeh	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : I:\Pest18\181205c\
Data File : 18181205c-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 5 Dec 2018 6:23 pm
Operator : PEST18:sl
Sample : wg1186046-3,42e,,tox icv 9034 (Sig #1); tox icv 9034 (Sig #2)
Misc : wg1186046,ical15103
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 05 18:46:34 2018
Quant Method : I:\Pest18\181205c\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Wed Dec 05 18:45:20 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

		Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
24)		Mirex	0.000	0.000	0	0	N.D. d	N.D. d
25)		Endosulfan S	0.000	0.000	0	0	N.D. d	N.D. d
26)		Endrin Keton	0.000	0.000	0	0	N.D. d	N.D. d
29)	l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30)	l1	chlordane-2	0.000	0.000	0	0	N.D. d	N.D. d
31)	l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
32)	l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
		Sum chlordane-1			0	0	N.D.	N.D.
Average		chlordane-1					0.000	0.000
34)	l2	toxaphene-1	4.678	5.141	3076.9E6	1494.1E6	1862.773	1823.748
35)	l2	toxaphene-2	4.769	5.168	2642.8E6	2157.7E6	1846.719	1852.169
36)	l2	toxaphene-3	4.933	5.239	2546.8E6	3825.6E6	1928.326	1774.070
37)	l2	toxaphene-5	5.229	5.772	2314.3E6	2262.8E6	1786.432	1717.056
		Sum toxaphene-1			10580.8E6	9740.3E6	7424.250	7167.043
Average		toxaphene-1					1856.062	1791.761

SemiQuant Compounds - Not Calibrated on this Instrument

		Sum toxaphene-1			10580.8E6	9740.3E6	7424.250	7167.043
Average		toxaphene-1					1856.062	1791.761

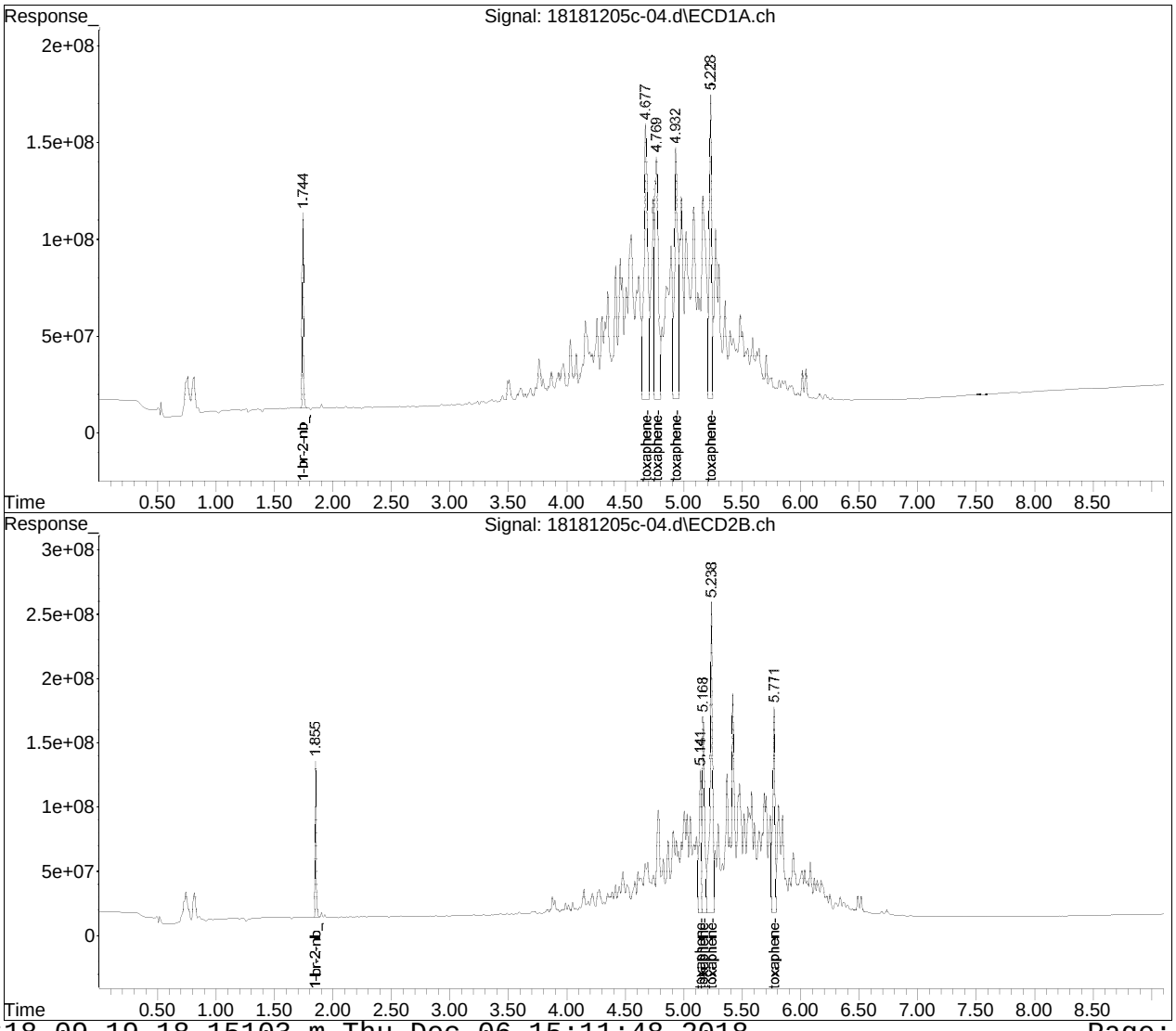
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest18\181205c\
Data File : 18181205c-04.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 5 Dec 2018 6:23 pm
Operator : PEST18:sl
Sample : wg1186046-3,42e,,tox icv 9034 (Sig #1); tox icv 9034 (Sig #2)
Misc : wg1186046,ical15103
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 05 18:46:34 2018
Quant Method : I:\Pest18\181205c\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Wed Dec 05 18:45:20 2018
Response via : Initial Calibration
Integrator: ChemStation

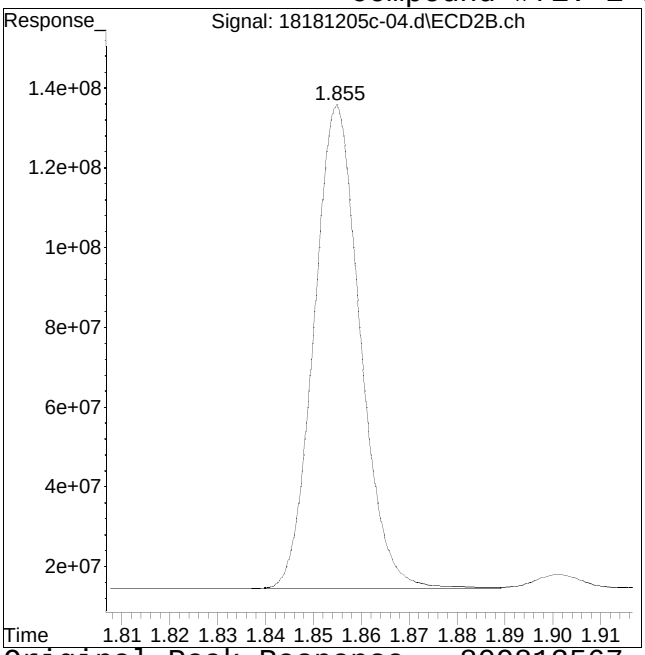
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

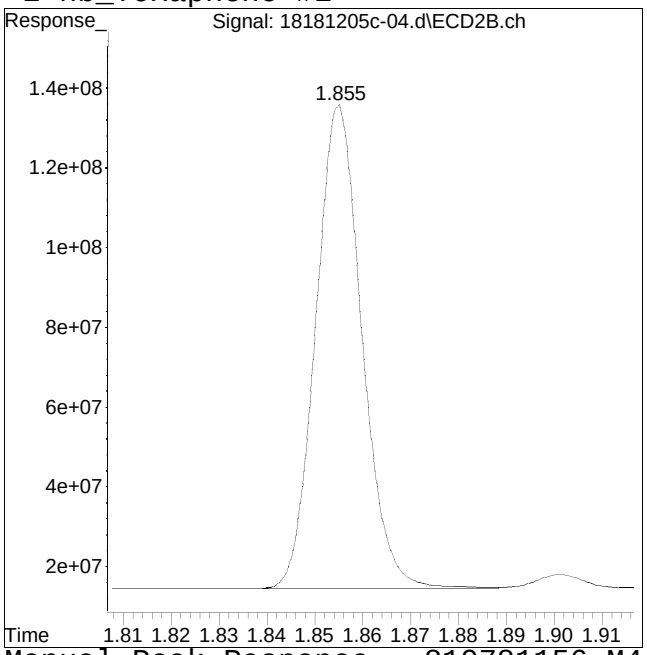


Manual Integration Report

Data Path : I:\Pest18\181205c\ QMethod : pest18_09_19_18_15103.m
Data File : 18181205c-04.d Operator : PEST18:sl
Date Inj'd : 12/5/2018 6:23 pm Instrument : Pest 18
Sample : wg1186046-3,42e,,tox icv 9Quant Date : 12/5/2018 6:45 pm

Compound #71: 1-br-2-nb_Toxaphene #2





Original Peak Response = 809813567 Manual Peak Response = 810781156 M4
M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : I:\Pest18\181205c\
Data File : 18181205c-25.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 5 Dec 2018 11:54 pm
Operator : PEST18:sl
Sample   : wg1186046-4,42e,,pest icv 8985 (Sig #1); pest icv 8985 (Sig #2)
Misc   : wg1186046,Ical15103
ALS Vial : 25   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 09:40:49 2018
Quant Method : I:\Pest18\181205c\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Wed Dec 05 18:46:40 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	25.000	25.000	0.0	148	0.00
2	s	2,4,5,6-Tetrachloro-m-xylen	50.000	47.407	5.2	163	0.00
3		Hexachlorobenzene	50.000	49.860	0.3	174	0.00
4		alpha-BHC	50.000	43.473	13.1	155	0.00
5		gamma-BHC (lindane)	50.000	43.876	12.2	156	0.00
6		beta-BHC	50.000	43.892	12.2	152	0.00
7		delta-BHC	50.000	43.424	13.2	156	0.00
8		Heptachlor	50.000	46.925	6.2	159	0.00
9		Aldrin	50.000	47.581	4.8	163	0.00
10		Alachlor	50.000	43.997	12.0	166	0.00
11		Chlorpyrifos	50.000	48.443	3.1	156	0.00
12		Heptachlor Epoxide	50.000	50.586	-1.2	172	0.00
13		gamma-Chlordane (trans)	50.000	46.516	7.0	164	0.00
14		alpha-Chlordane (cis)	50.000	46.485	7.0	162	0.00
15		4,4'-DDE	50.000	44.906	10.2	160	0.00
16		Endosulfan I	50.000	47.942	4.1	164	0.00
17		Dieldrin	50.000	50.169	-0.3	174	0.00
18		Endrin	50.000	48.222	3.6	167	0.00
19		4,4'-DDD	50.000	43.947	12.1	155	0.00
20		Endosulfan II	50.000	46.942	6.1	157	0.00
21		4,4'-DDT	50.000	45.725	8.5	161	0.00
22		Endrin Aldehyde	50.000	44.185	11.6	155	0.00
23		Methoxychlor	50.000	45.176	9.6	148	0.00
24		Mirex	50.000	50.386	-0.8	153	0.00
25		Endosulfan Sulfate	50.000	48.706	2.6	170	0.00
26		Endrin Ketone	50.000	49.674	0.7	168	0.00
27	s	Decachlorobiphenyl	50.000	49.155	1.7	173	0.00

Signal #2

Evaluate Continuing Calibration Report

Data Path : I:\Pest18\181205c\
Data File : 18181205c-25.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 5 Dec 2018 11:54 pm
Operator : PEST18:sl
Sample   : wg1186046-4,42e,,pest icv 8985 (Sig #1); pest icv 8985 (Sig #2)
Misc   : wg1186046,Ical15103
ALS Vial : 25   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 09:40:49 2018
Quant Method : I:\Pest18\181205c\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Wed Dec 05 18:46:40 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
1	i	1-br-2-nb_Pesticides	25.000	25.000	0.0	136	0.00
2	s	2,4,5,6-Tetrachloro-m-xyl	50.000	48.625	2.8	153	0.00
3		Hexachlorobenzene	50.000	50.736	-1.5	164	0.00
4		alpha-BHC	50.000	43.351	13.3	143	0.00
5		gamma-BHC (lindane)	50.000	43.566	12.9	143	0.00
6		beta-BHC	50.000	41.488	17.0	135	0.00
7		delta-BHC	50.000	43.021	14.0	143	0.00
8		Heptachlor	50.000	45.761	8.5	145	0.00
9		Aldrin	50.000	46.810	6.4	150	0.00
10		Alachlor	50.000	47.805	4.4	170	0.00
11		Chlorpyrifos	50.000	45.572	8.9	138	0.00
12		Heptachlor Epoxide	50.000	48.560	2.9	155	0.00
13		gamma-Chlordane (trans)	50.000	44.533	10.9	145	0.00
14		alpha-Chlordane (cis)	50.000	45.104	9.8	148	0.00
15		4,4'-DDE	50.000	44.526	10.9	148	0.00
16		Endosulfan I	50.000	45.011	10.0	144	0.00
17		Dieldrin	50.000	48.234	3.5	157	0.00
18		Endrin	50.000	46.979	6.0	150	0.00
19		4,4'-DDD	50.000	42.958	14.1	144	0.00
20		Endosulfan II	50.000	45.875	8.3	144	0.00
21		4,4'-DDT	50.000	45.027	9.9	145	0.00
22		Endrin Aldehyde	50.000	41.742	16.5	138	0.00
23		Methoxychlor	50.000	42.614	14.8	136	0.00
24		Mirex	50.000	48.308	3.4	139	0.00
25		Endosulfan Sulfate	50.000	44.860	10.3	146	0.00
26		Endrin Ketone	50.000	48.172	3.7	153	0.00
27	s	Decachlorobiphenyl	50.000	45.422	9.2	146	0.00

Evaluate Continuing Calibration Report - Not Founds

Evaluate Continuing Calibration Report

Data Path : I:\Pest18\181205c\
Data File : 18181205c-25.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On   : 5 Dec 2018 11:54 pm
Operator : PEST18:sl
Sample   : wg1186046-4,42e,,pest icv 8985 (Sig #1); pest icv 8985 (Sig #2)
Misc   : wg1186046,Ical15103
ALS Vial : 25   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 09:40:49 2018
Quant Method : I:\Pest18\181205c\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Wed Dec 05 18:46:40 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.   :
Signal #1 Phase :   Signal #2 Phase:
Signal #1 Info :   Signal #2 Info :

Min. RRF   :   0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20%   Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(Min)
28	i	1-br-2-nb_Chlordane	25.000	25.000	0.0	0	-1.74#
29	l1	chlordane-1	2500.000	0.000	100.0#	0	-3.07#
30	l1	chlordane-2	2500.000	0.000	100.0#	0	-3.13#
31	l1	chlordane-3	2500.000	0.000	100.0#	0	-3.95#
32	l1	chlordane-4	2500.000	0.000	100.0#	0	-4.05#
33	i	1-br-2-nb_Toxaphene	25.000	25.000	0.0	0	-1.74#
34	l2	toxaphene-1	5000.000	0.000	100.0#	0	-4.68#
35	l2	toxaphene-2	5000.000	0.000	100.0#	0	-4.77#
36	l2	toxaphene-3	5000.000	0.000	100.0#	0	-4.93#
37	l2	toxaphene-5	5000.000	0.000	100.0#	0	-5.23#

Signal #2

28	i	1-br-2-nb_Chlordane	25.000	25.000	0.0	0	-1.85#
29	l1	chlordane-1	2500.000	0.000	100.0#	0	-3.39#
30	l1	chlordane-2	2500.000	0.000	100.0#	0	-3.52#
31	l1	chlordane-3	2500.000	0.000	100.0#	0	-4.43#
32	l1	chlordane-4	2500.000	0.000	100.0#	0	-4.54#
33	i	1-br-2-nb_Toxaphene	25.000	25.000	0.0	0	-1.85#
34	l2	toxaphene-1	5000.000	0.000	100.0#	0	-5.14#
35	l2	toxaphene-2	5000.000	0.000	100.0#	0	-5.17#
36	l2	toxaphene-3	5000.000	0.000	100.0#	0	-5.24#
37	l2	toxaphene-5	5000.000	0.000	100.0#	0	-5.77#

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\Pest18\181205c\
Data File : 18181205c-25.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 5 Dec 2018 11:54 pm
Operator : PEST18:sl
Sample : wg1186046-4,42e,,pest icv 8985 (Sig #1); pest icv 8985 (Sig #2)
Misc : wg1186046,Ical15103
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 09:40:49 2018
Quant Method : I:\Pest18\181205c\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Wed Dec 05 18:46:40 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.744	1.855	778.7E6	854.7E6	25.000M4	25.000
28) i	1-br-2-nb_Ch	0.000	0.000	0	0	N.D. d	N.D. d
33) i	1-br-2-nb_To	0.000	0.000	0	0	N.D. d	N.D. d
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.210	2.436	1445.6E6	1633.8E6	47.407M4	48.625M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		94.81%	97.25%
27) s	Decachlorobi	6.174	6.763	1355.3E6	1219.9E6	49.155	45.422M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		98.31%	90.84%
	Target Compounds						
3)	Hexachlorobe	2.457	2.777	1523.9E6	1697.9E6	49.860M4	50.736M4
4)	alpha-BHC	2.569	2.877	2146.8E6	2394.0E6	43.473M4	43.351M4
5)	gamma-BHC (l	2.783	3.155	1948.5E6	2165.5E6	43.876M4	43.566M4
6)	beta-BHC	2.846	3.223	857.2E6	937.7E6	43.892M4	41.488M4
7)	delta-BHC	2.974	3.467	1986.0E6	2217.8E6	43.424M4	43.021M4
8)	Heptachlor	3.131	3.516	1980.0E6	2190.3E6	46.925M4	45.761
9)	Aldrin	3.360	3.796	1827.9E6	2027.9E6	47.581M4	46.810M4
10)	Alachlor	3.467	3.695	259.9E6	287.6E6	43.997M4	47.805M4
11)	Chlorpyrifos	3.555	3.987	977.0E6	1049.4E6	48.443M4	45.572M4
12)	Heptachlor E	3.844	4.277	1757.0E6	1884.2E6	50.586M4	48.560M4
13)	gamma-Chlord	3.949	4.429	1825.2E6	1960.2E6	46.516M4	44.533M4

Quantitation Report (QT Reviewed)

Data Path : I:\Pest18\181205c\
Data File : 18181205c-25.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 5 Dec 2018 11:54 pm
Operator : PEST18:sl
Sample : wg1186046-4,42e,,pest icv 8985 (Sig #1); pest icv 8985 (Sig #2)
Misc : wg1186046,Ical15103
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 09:40:49 2018
Quant Method : I:\Pest18\181205c\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Wed Dec 05 18:46:40 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
14)	alpha-Chlord	4.055	4.543	1753.9E6	1856.2E6	46.485M4	45.104
15)	4,4'-DDE	4.127	4.671	1648.4E6	1837.9E6	44.906	44.526
16)	Endosulfan I	4.158	4.590	1661.8E6	1730.7E6	47.942	45.011
17)	Dieldrin	4.346	4.799	1866.7E6	1967.6E6	50.169M4	48.234M4
18)	Endrin	4.520	5.026	1816.7E6	1891.0E6	48.222M4	46.979M4
19)	4,4'-DDD	4.586	5.103	1431.4E6	1546.4E6	43.947M4	42.958
20)	Endosulfan I	4.689	5.183	1579.7E6	1682.3E6	46.942M4	45.875
21)	4,4'-DDT	4.796	5.325	1633.3E6	1721.7E6	45.725	45.027M4
22)	Endrin Aldeh	4.992	5.420	1336.1E6	1351.0E6	44.185M4	41.742M4
23)	Methoxychlor	5.159	5.795	801.8E6	798.6E6	45.176M4	42.614M4
24)	Mirex	5.236	5.945	1343.3E6	1268.8E6	50.386M4	48.308
25)	Endosulfan S	5.298	5.611	1703.3E6	1700.8E6	48.706M4	44.860M4
26)	Endrin Keton	5.489	5.976	1773.7E6	1785.1E6	49.674M4	48.172
29) l1	chlordane-1	0.000	0.000	0	0	N.D. d	N.D. d
30) l1	chlordane-2	0.000	0.000	0	0	N.D. d	N.D. d
31) l1	chlordane-3	0.000	0.000	0	0	N.D. d	N.D. d
32) l1	chlordane-4	0.000	0.000	0	0	N.D. d	N.D. d
Sum	chlordane-1			0	0	N.D.	N.D.
Average	chlordane-1					0.000	0.000
34) l2	toxaphene-1	0.000	0.000	0	0	N.D. d	N.D. d
35) l2	toxaphene-2	0.000	0.000	0	0	N.D. d	N.D. d
36) l2	toxaphene-3	0.000	0.000	0	0	N.D. d	N.D. d
37) l2	toxaphene-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum	toxaphene-1			0	0	N.D.	N.D.
Average	toxaphene-1					0.000	0.000

Data Path : I:\Pest18\181205c\
Data File : 18181205c-25.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 5 Dec 2018 11:54 pm
Operator : PEST18:sl
Sample : wg1186046-4,42e,,pest icv 8985 (Sig #1); pest icv 8985 (Sig #2)
Misc : wg1186046,Ical15103
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 09:40:49 2018
Quant Method : I:\Pest18\181205c\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Wed Dec 05 18:46:40 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
SemiQuant Compounds - Not Calibrated on this Instrument						
Sum toxaphene-1			0	0	N.D.	N.D.
Average toxaphene-1					0.000	0.000

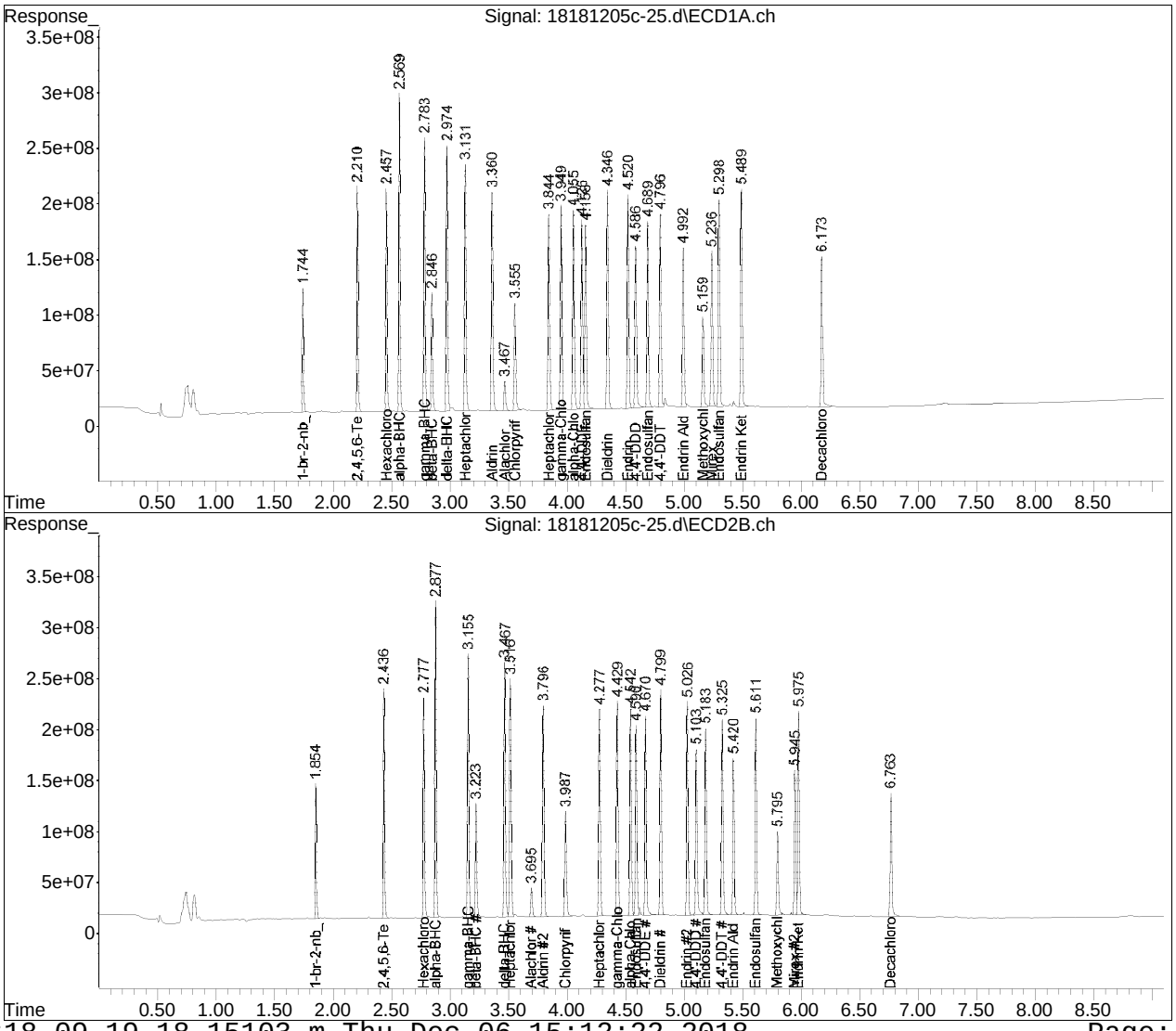
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : Default - All compounds listed Reviewed)

Data Path : I:\Pest18\181205c\
Data File : 18181205c-25.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 5 Dec 2018 11:54 pm
Operator : PEST18:sl
Sample : wg1186046-4,42e,,pest icv 8985 (Sig #1); pest icv 8985 (Sig #2)
Misc : wg1186046,Ical15103
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 09:40:49 2018
Quant Method : I:\Pest18\181205c\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Wed Dec 05 18:46:40 2018
Response via : Initial Calibration
Integrator: ChemStation

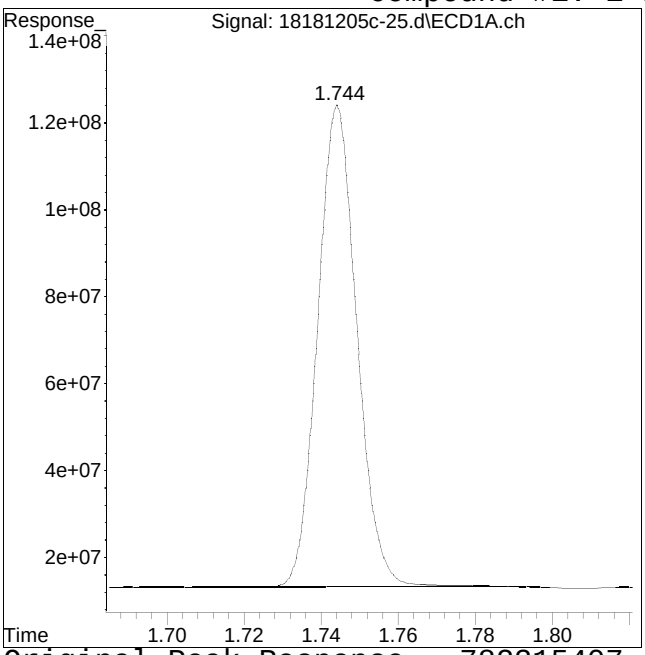
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

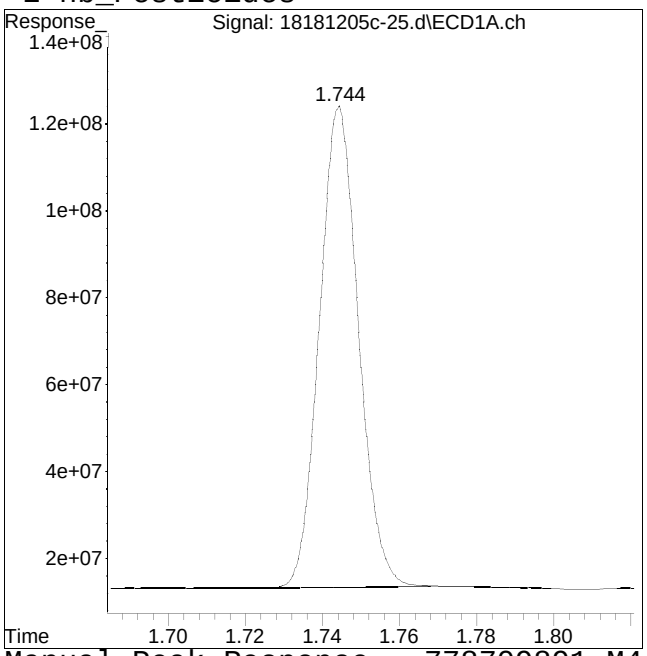


Manual Integration Report

Data Path : I:\Pest18\181205c\ QMethod : pest18_09_19_18_15103.m
Data File : 18181205c-25.d Operator : PEST18:sl
Date Inj'd : 12/5/2018 11:54 pm Instrument : Pest 18
Sample : wg1186046-4,42e,,pest icv Quant Date : 12/6/2018 9:35 am

Compound #1: 1-br-2-nb_Pesticides



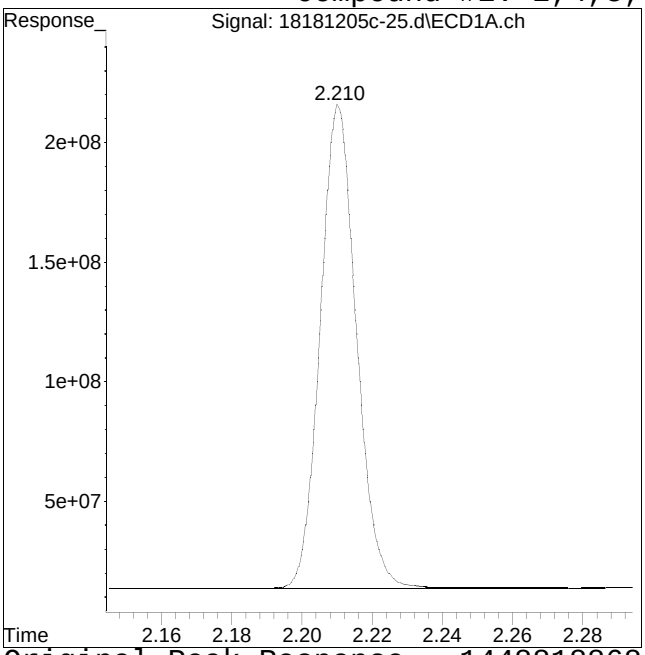


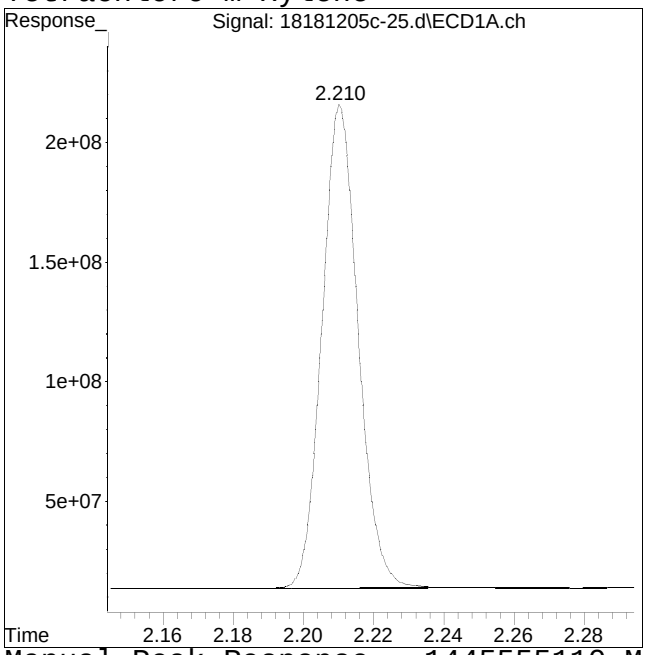
Original Peak Response = 782315407 Manual Peak Response = 778709891 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181205c\ QMethod : pest18_09_19_18_15103.m
Data File : 18181205c-25.d Operator : PEST18:sl
Date Inj'd : 12/5/2018 11:54 pm Instrument : Pest 18
Sample : wg1186046-4,42e,,pest icv Quant Date : 12/6/2018 9:35 am

Compound #2: 2,4,5,6-Tetrachloro-m-xylene



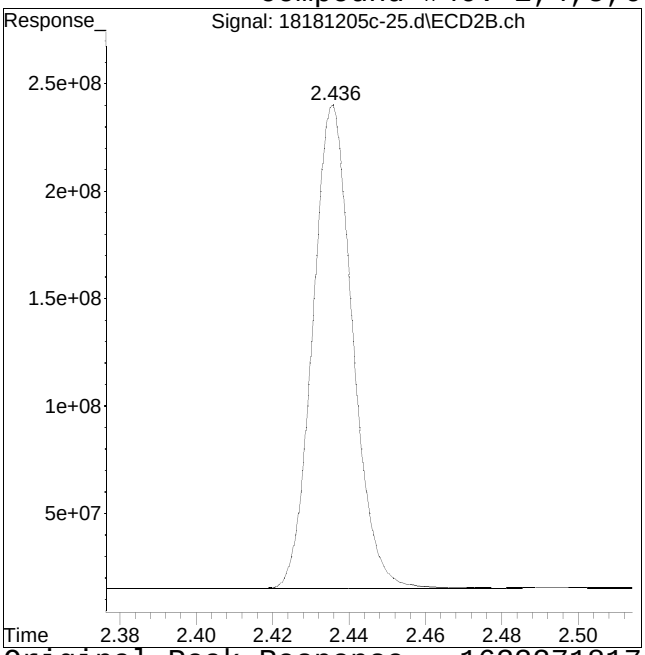


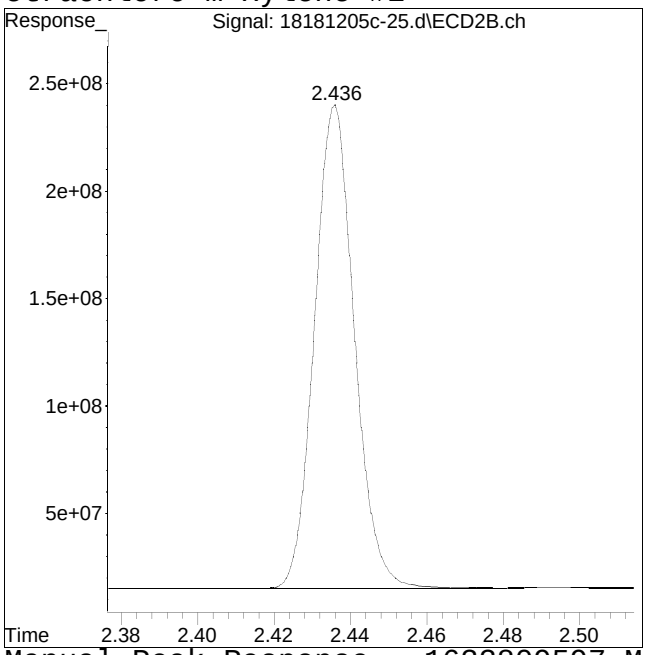
Original Peak Response = 1448818868 Manual Peak Response = 1445555110 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181205c\ QMethod : pest18_09_19_18_15103.m
Data File : 18181205c-25.d Operator : PEST18:sl
Date Inj'd : 12/5/2018 11:54 pm Instrument : Pest 18
Sample : wg1186046-4,42e,,pest icv Quant Date : 12/6/2018 9:35 am

Compound #40: 2,4,5,6-Tetrachloro-m-xylene #2



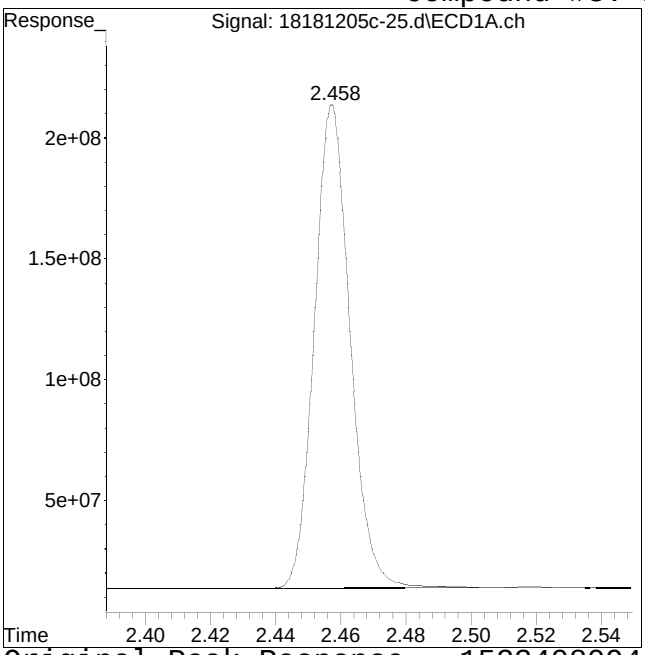


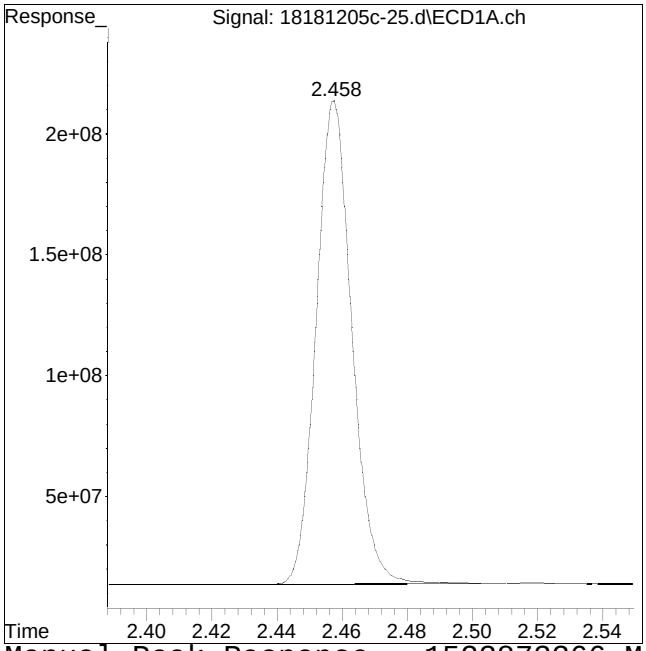
Original Peak Response = 1633271817 Manual Peak Response = 1633809597 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181205c\ QMethod : pest18_09_19_18_15103.m
Data File : 18181205c-25.d Operator : PEST18:sl
Date Inj'd : 12/5/2018 11:54 pm Instrument : Pest 18
Sample : wg1186046-4,42e,,pest icv Quant Date : 12/6/2018 9:35 am

Compound #3: Hexachlorobenzene



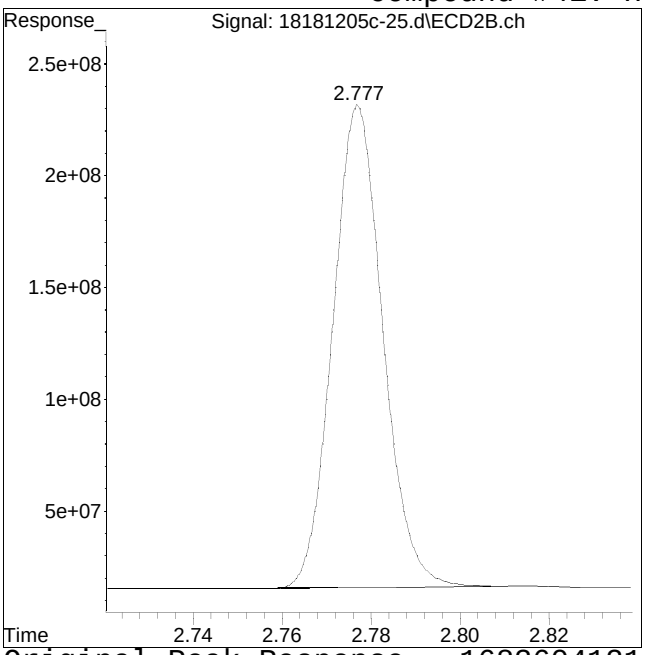


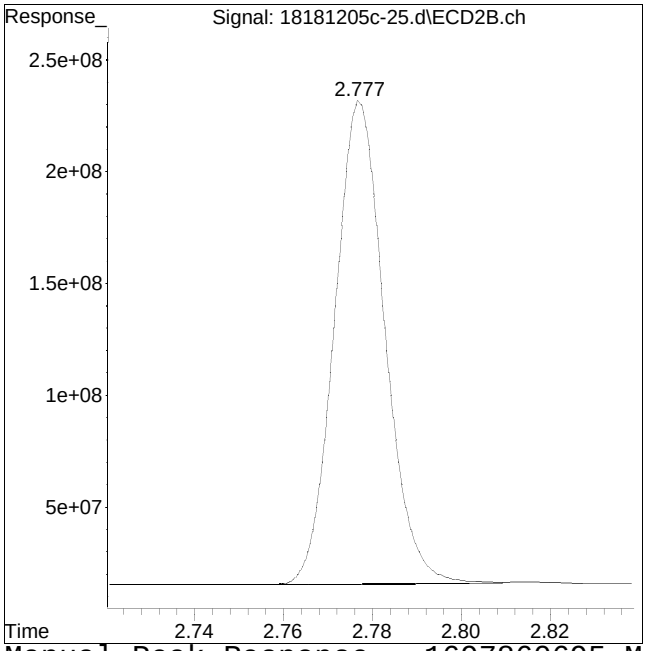
Original Peak Response = 1523408094 Manual Peak Response = 1523873366 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181205c\ QMethod : pest18_09_19_18_15103.m
Data File : 18181205c-25.d Operator : PEST18:sl
Date Inj'd : 12/5/2018 11:54 pm Instrument : Pest 18
Sample : wg1186046-4,42e,,pest icv Quant Date : 12/6/2018 9:35 am

Compound #41: Hexachlorobenzene #2



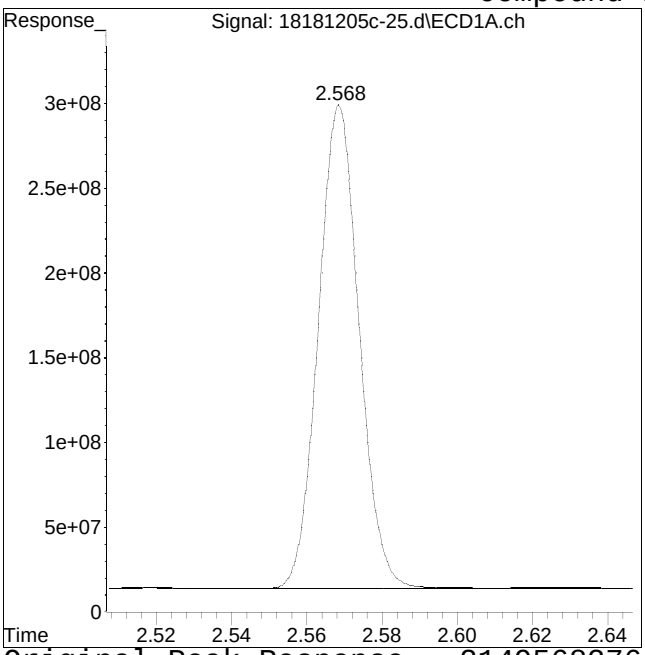


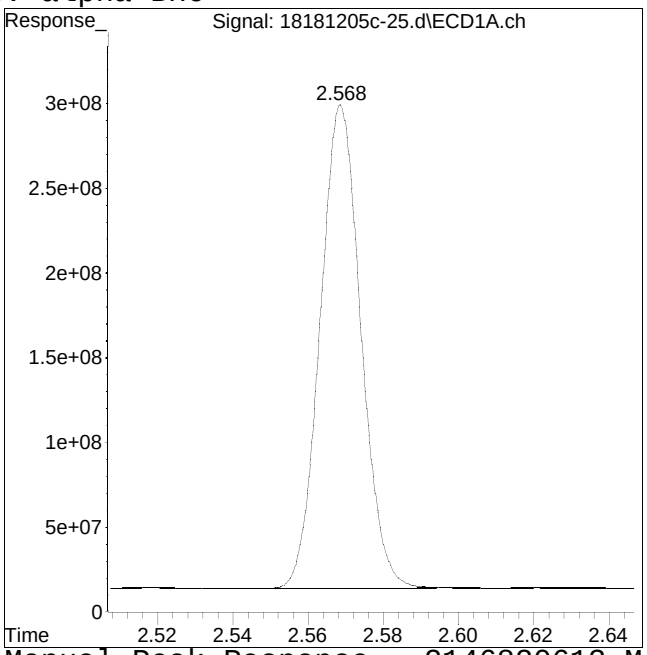
Original Peak Response = 1683604121 Manual Peak Response = 1697860695 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181205c\ QMethod : pest18_09_19_18_15103.m
Data File : 18181205c-25.d Operator : PEST18:sl
Date Inj'd : 12/5/2018 11:54 pm Instrument : Pest 18
Sample : wg1186046-4,42e,,pest icv Quant Date : 12/6/2018 9:35 am

Compound #4: alpha-BHC



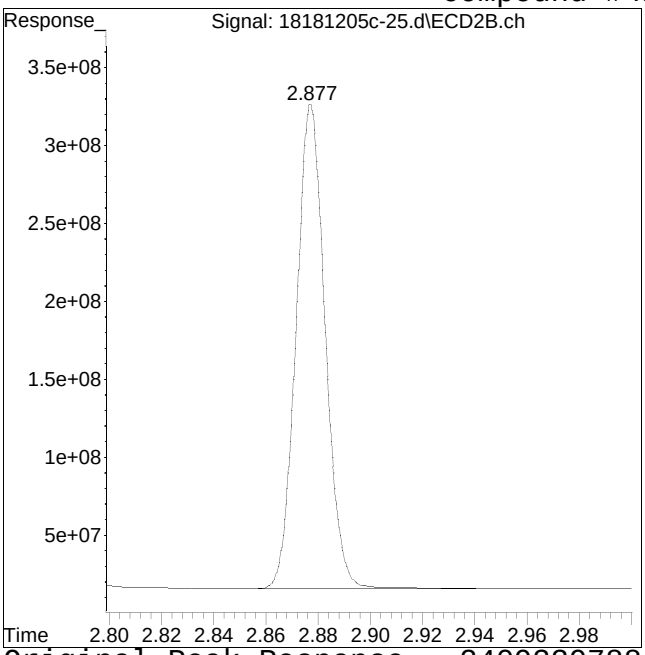


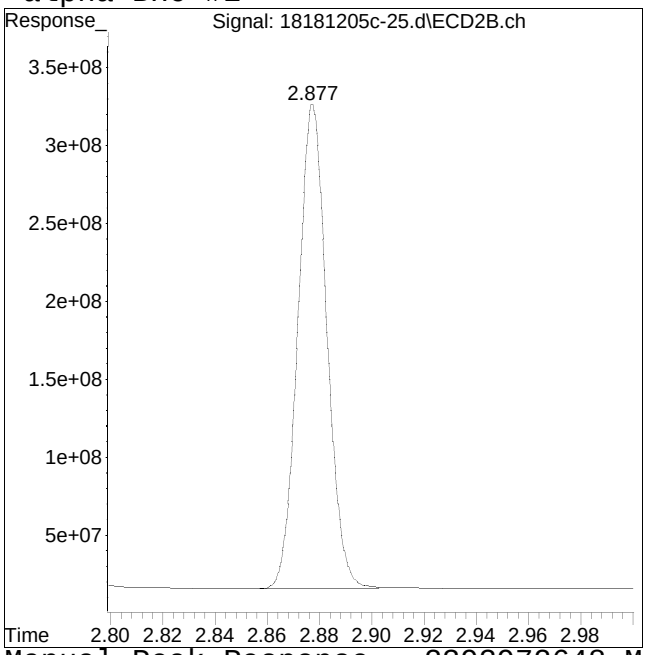
Original Peak Response = 2149568276 Manual Peak Response = 2146820613 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181205c\ QMethod : pest18_09_19_18_15103.m
Data File : 18181205c-25.d Operator : PEST18:sl
Date Inj'd : 12/5/2018 11:54 pm Instrument : Pest 18
Sample : wg1186046-4,42e,,pest icv Quant Date : 12/6/2018 9:35 am

Compound #42: alpha-BHC #2



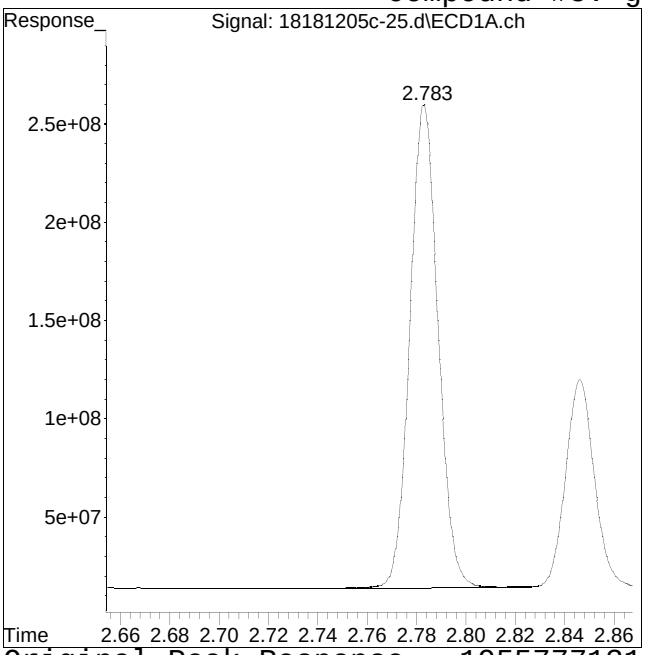


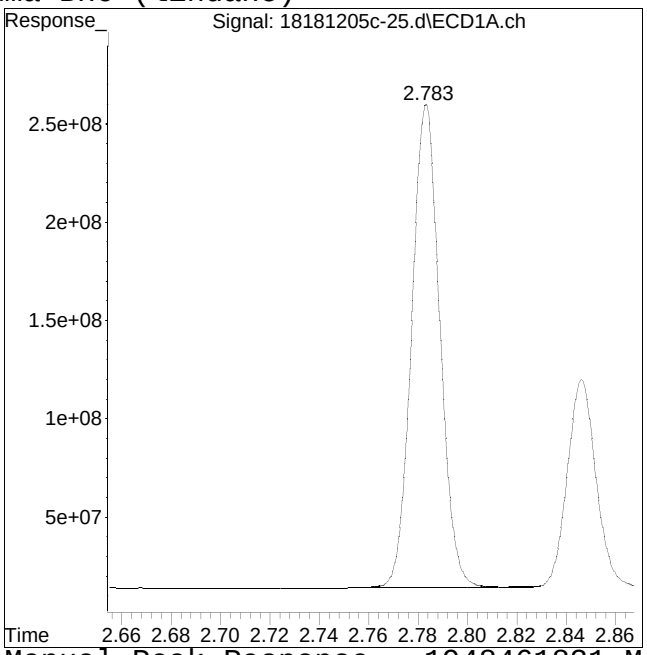
Original Peak Response = 2409339788 Manual Peak Response = 2393972648 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181205c\ QMethod : pest18_09_19_18_15103.m
Data File : 18181205c-25.d Operator : PEST18:sl
Date Inj'd : 12/5/2018 11:54 pm Instrument : Pest 18
Sample : wg1186046-4,42e,,pest icv Quant Date : 12/6/2018 9:35 am

Compound #5: gamma-BHC (lindane)



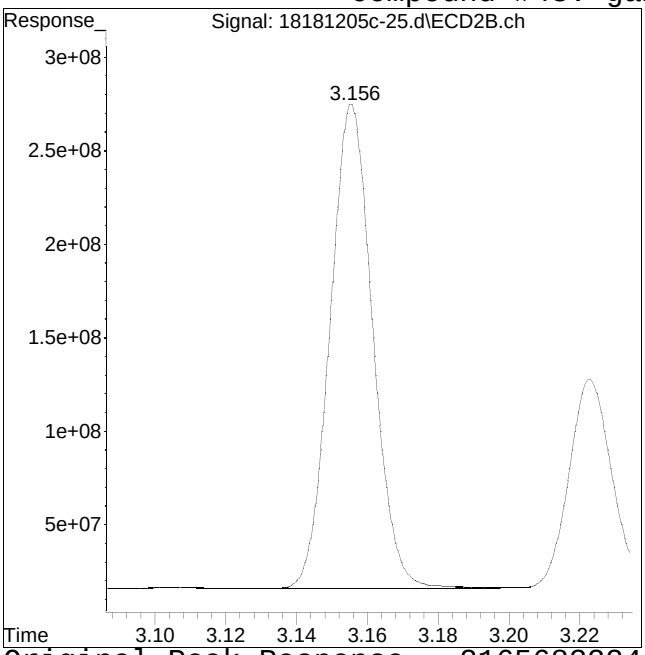


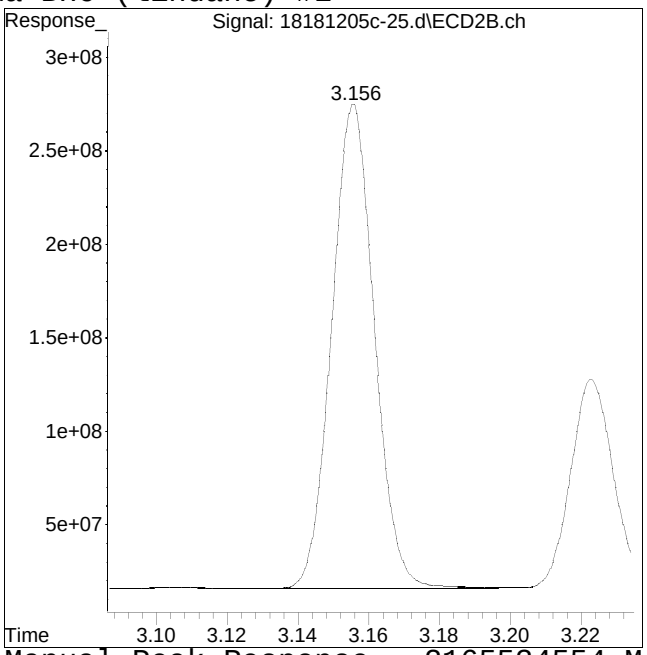
Original Peak Response = 1955777131 Manual Peak Response = 1948461831 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181205c\ QMethod : pest18_09_19_18_15103.m
Data File : 18181205c-25.d Operator : PEST18:sl
Date Inj'd : 12/5/2018 11:54 pm Instrument : Pest 18
Sample : wg1186046-4,42e,,pest icv Quant Date : 12/6/2018 9:35 am

Compound #43: gamma-BHC (lindane) #2



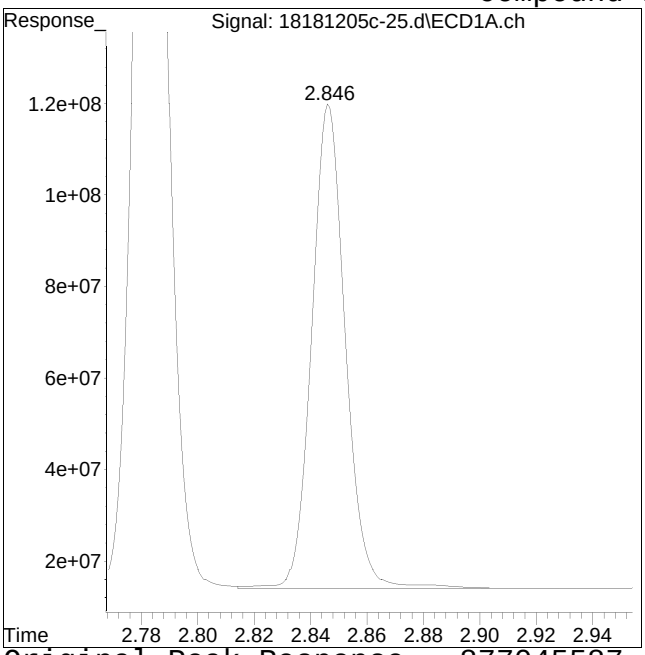


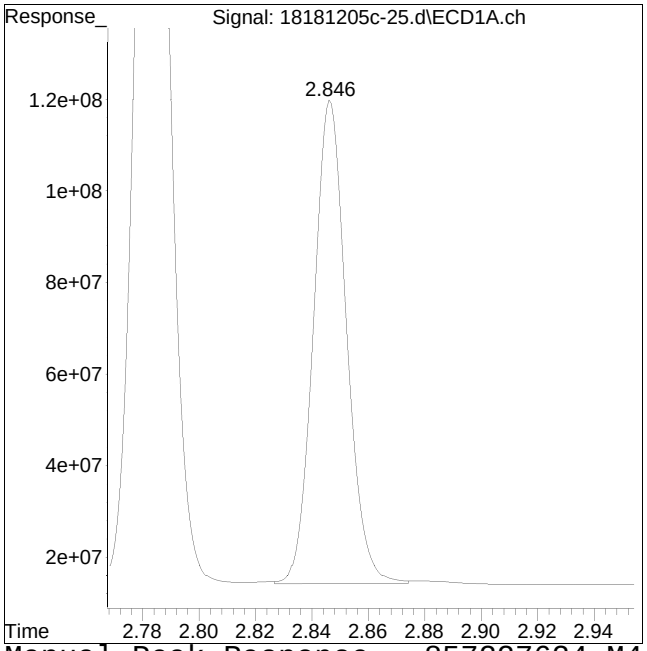
Original Peak Response = 2165683224 Manual Peak Response = 2165534554 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181205c\ QMethod : pest18_09_19_18_15103.m
Data File : 18181205c-25.d Operator : PEST18:sl
Date Inj'd : 12/5/2018 11:54 pm Instrument : Pest 18
Sample : wg1186046-4,42e,,pest icv Quant Date : 12/6/2018 9:35 am

Compound #6: beta-BHC



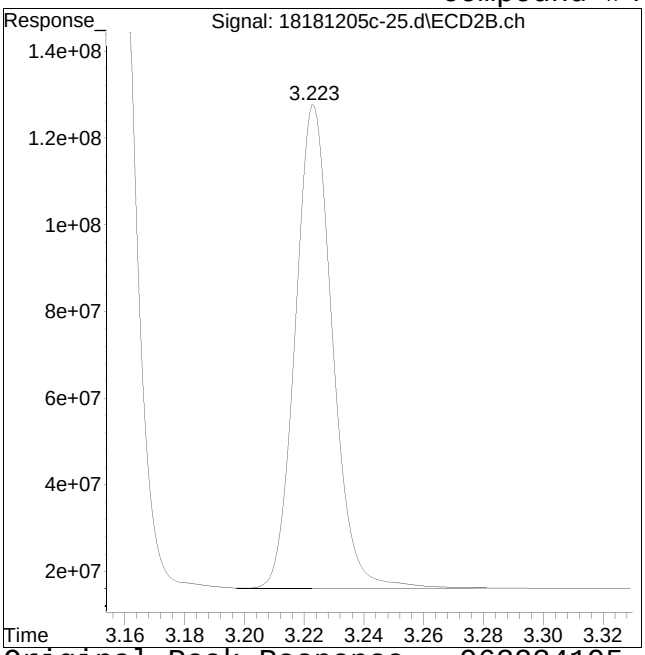


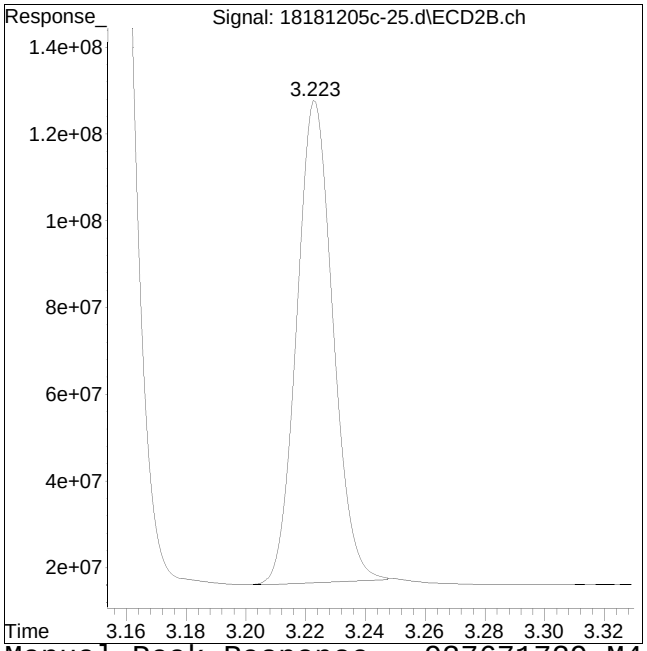
Original Peak Response = 877045587 Manual Peak Response = 857227624 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181205c\ QMethod : pest18_09_19_18_15103.m
Data File : 18181205c-25.d Operator : PEST18:sl
Date Inj'd : 12/5/2018 11:54 pm Instrument : Pest 18
Sample : wg1186046-4,42e,,pest icv Quant Date : 12/6/2018 9:35 am

Compound #44: beta-BHC #2



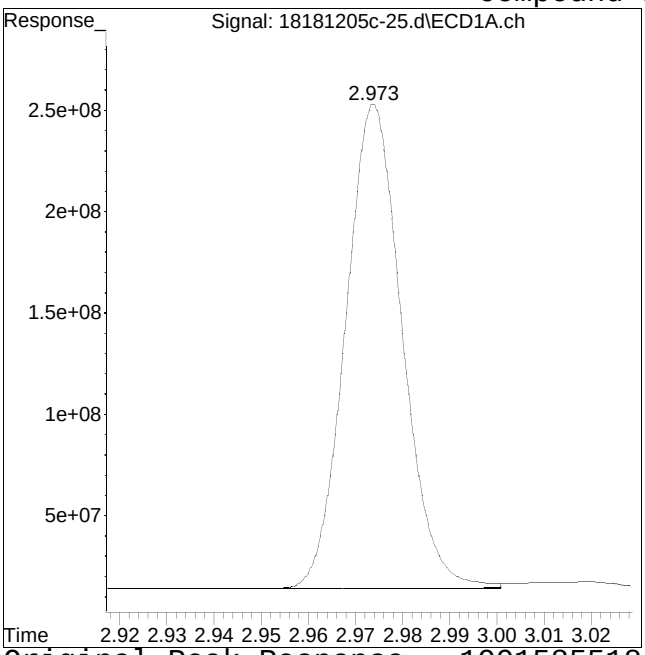


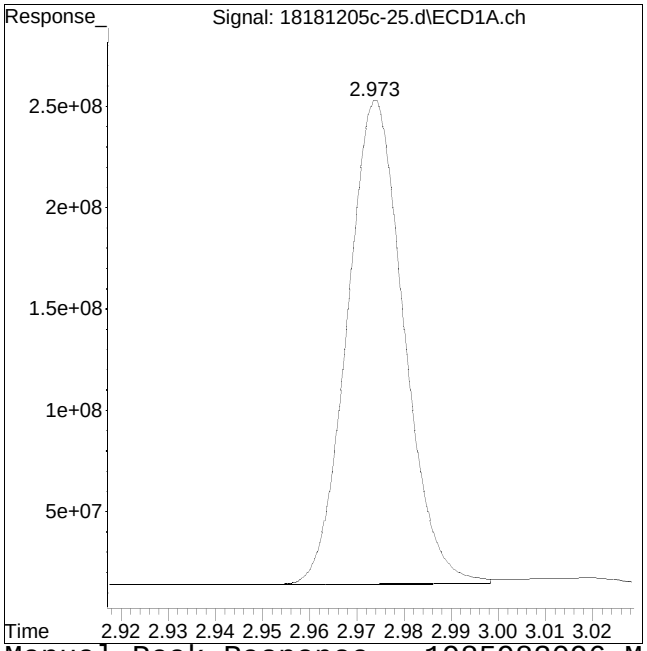
Original Peak Response = 963234195 Manual Peak Response = 937671729 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181205c\ QMethod : pest18_09_19_18_15103.m
Data File : 18181205c-25.d Operator : PEST18:sl
Date Inj'd : 12/5/2018 11:54 pm Instrument : Pest 18
Sample : wg1186046-4,42e,,pest icv Quant Date : 12/6/2018 9:35 am

Compound #7: delta-BHC



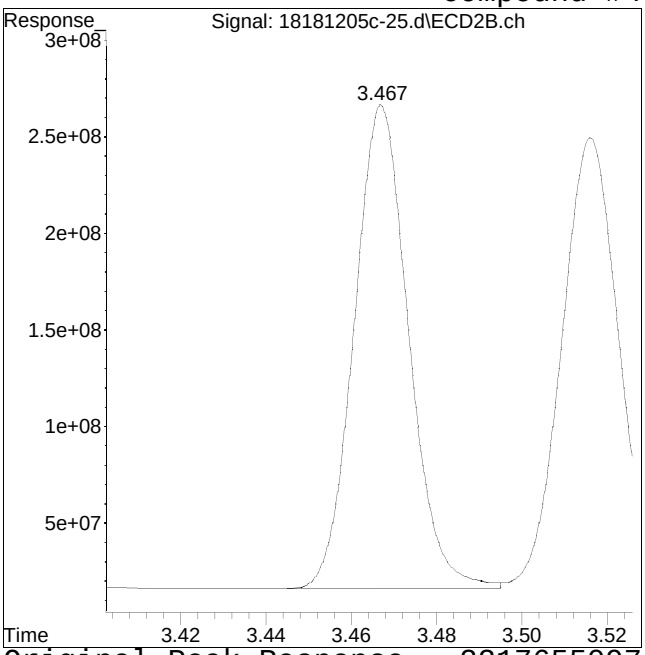


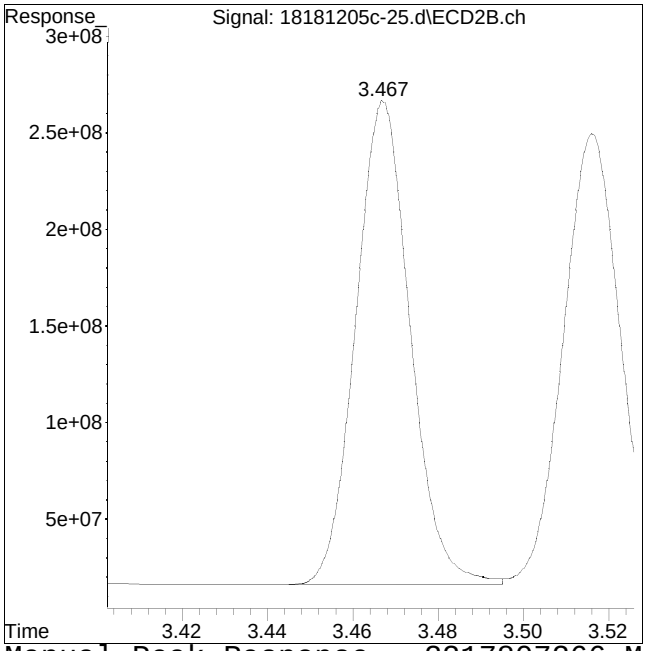
Original Peak Response = 1991585518 Manual Peak Response = 1985983096 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181205c\ QMethod : pest18_09_19_18_15103.m
Data File : 18181205c-25.d Operator : PEST18:sl
Date Inj'd : 12/5/2018 11:54 pm Instrument : Pest 18
Sample : wg1186046-4,42e,,pest icv Quant Date : 12/6/2018 9:35 am

Compound #45: delta-BHC #2



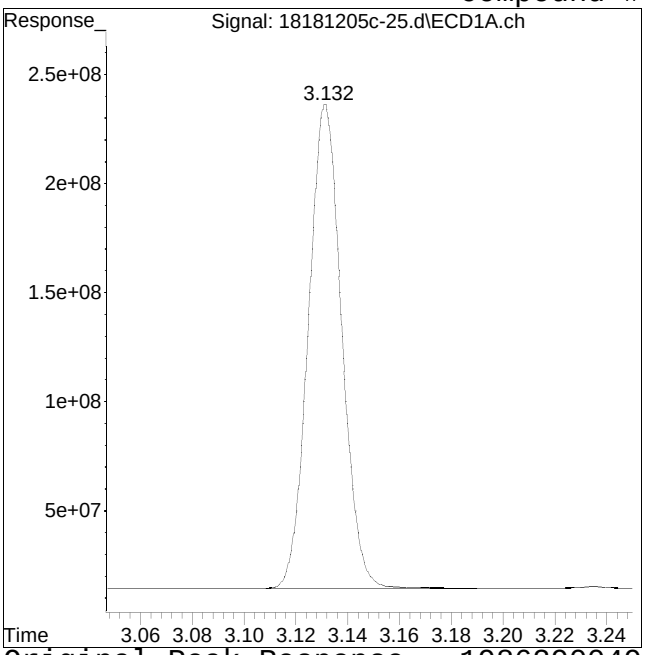


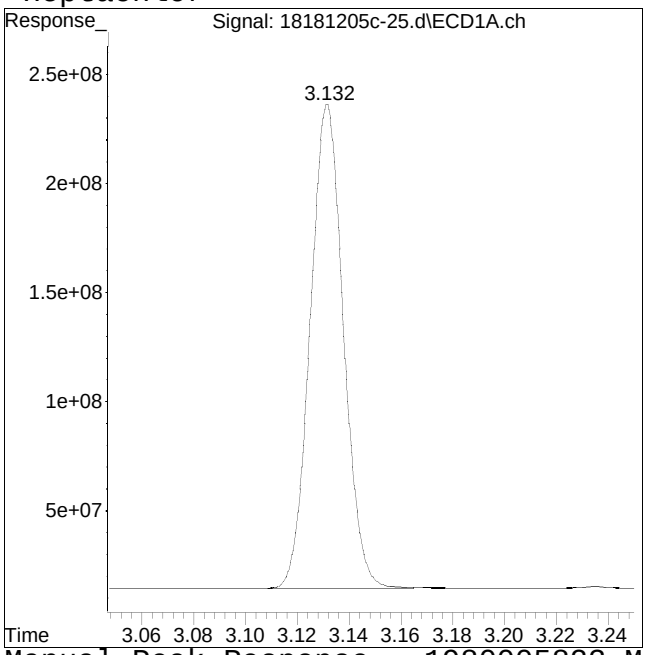
Original Peak Response = 2217655097 Manual Peak Response = 2217807266 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181205c\ QMethod : pest18_09_19_18_15103.m
Data File : 18181205c-25.d Operator : PEST18:sl
Date Inj'd : 12/5/2018 11:54 pm Instrument : Pest 18
Sample : wg1186046-4,42e,,pest icv Quant Date : 12/6/2018 9:35 am

Compound #8: Heptachlor



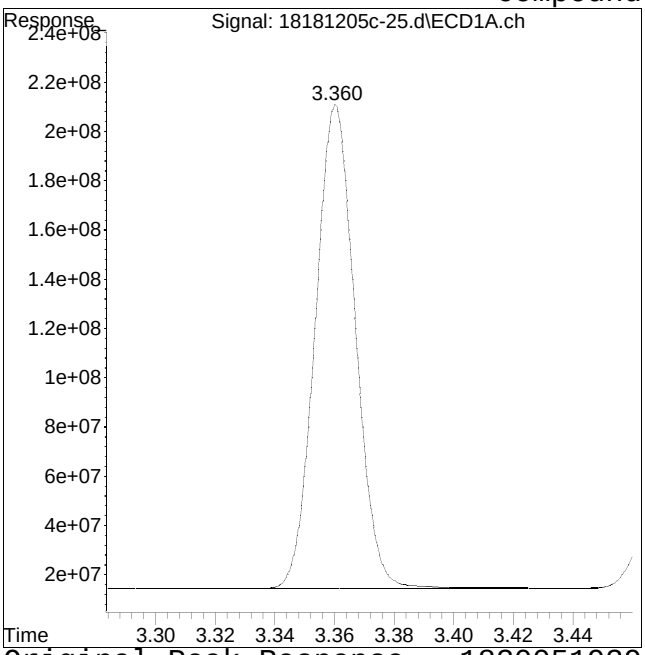


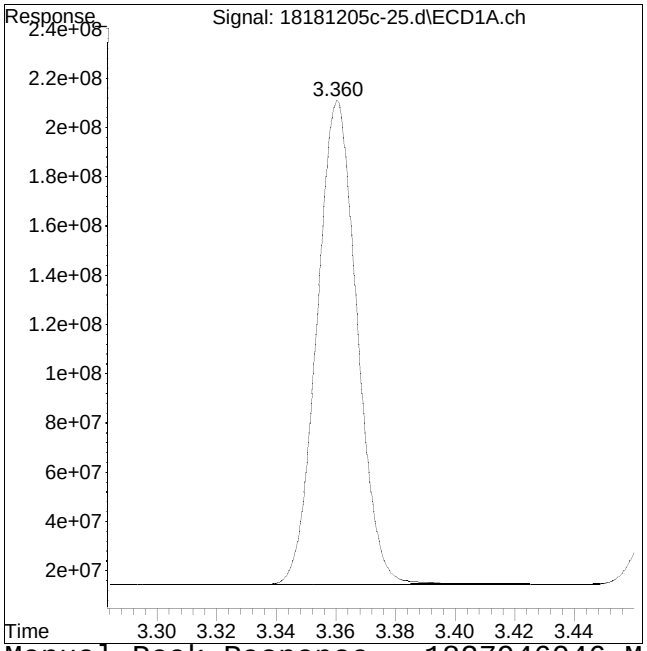
Original Peak Response = 1986290049 Manual Peak Response = 1980005823 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181205c\ QMethod : pest18_09_19_18_15103.m
Data File : 18181205c-25.d Operator : PEST18:sl
Date Inj'd : 12/5/2018 11:54 pm Instrument : Pest 18
Sample : wg1186046-4,42e,,pest icv Quant Date : 12/6/2018 9:35 am

Compound #9: Aldrin



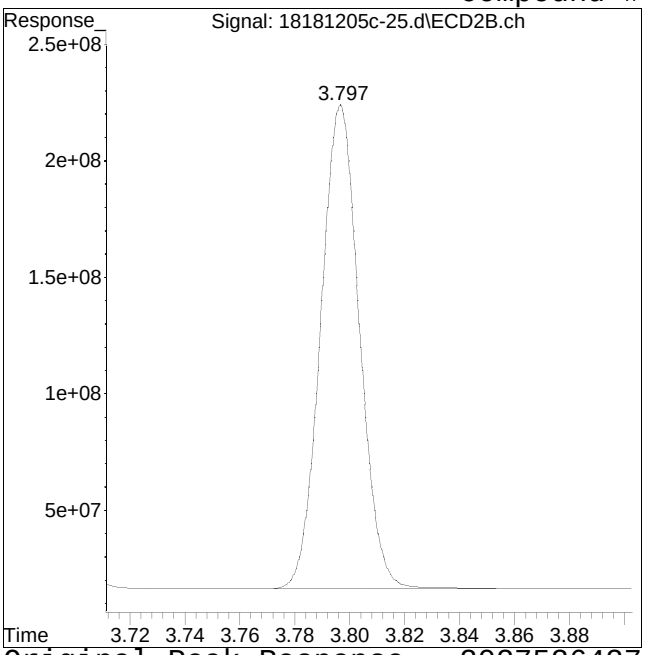


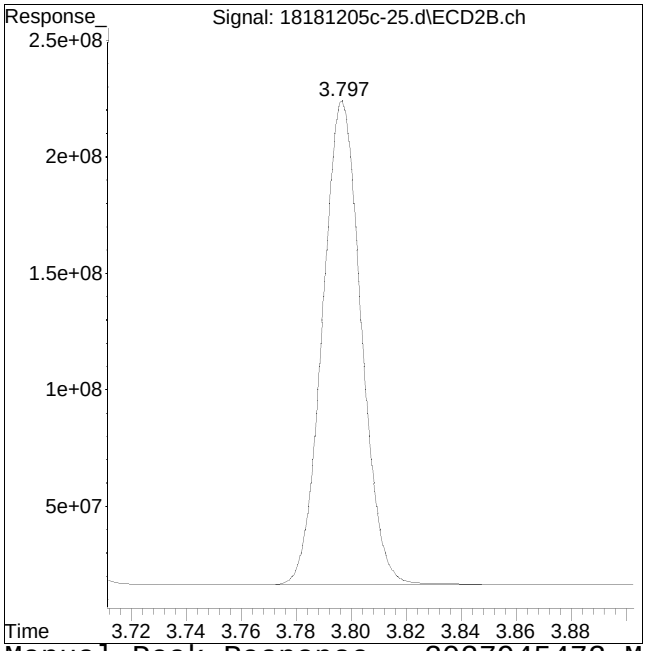
Original Peak Response = 1830051939 Manual Peak Response = 1827946046 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181205c\ QMethod : pest18_09_19_18_15103.m
Data File : 18181205c-25.d Operator : PEST18:sl
Date Inj'd : 12/5/2018 11:54 pm Instrument : Pest 18
Sample : wg1186046-4,42e,,pest icv Quant Date : 12/6/2018 9:35 am

Compound #47: Aldrin #2



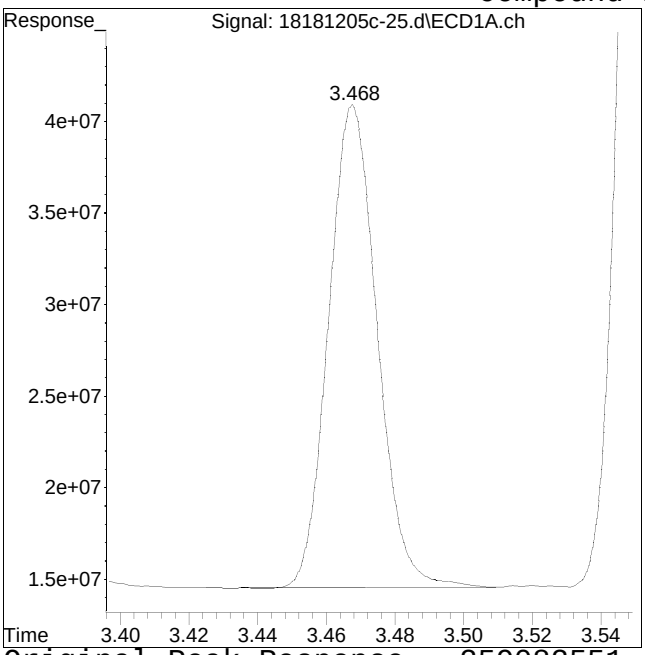


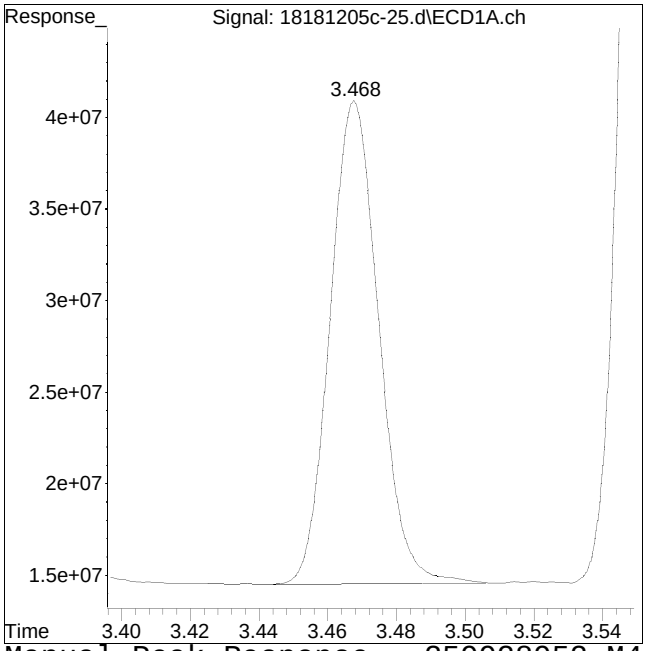
Original Peak Response = 2027526427 Manual Peak Response = 2027945473 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181205c\ QMethod : pest18_09_19_18_15103.m
Data File : 18181205c-25.d Operator : PEST18:sl
Date Inj'd : 12/5/2018 11:54 pm Instrument : Pest 18
Sample : wg1186046-4,42e,,pest icv Quant Date : 12/6/2018 9:35 am

Compound #10: Alachlor



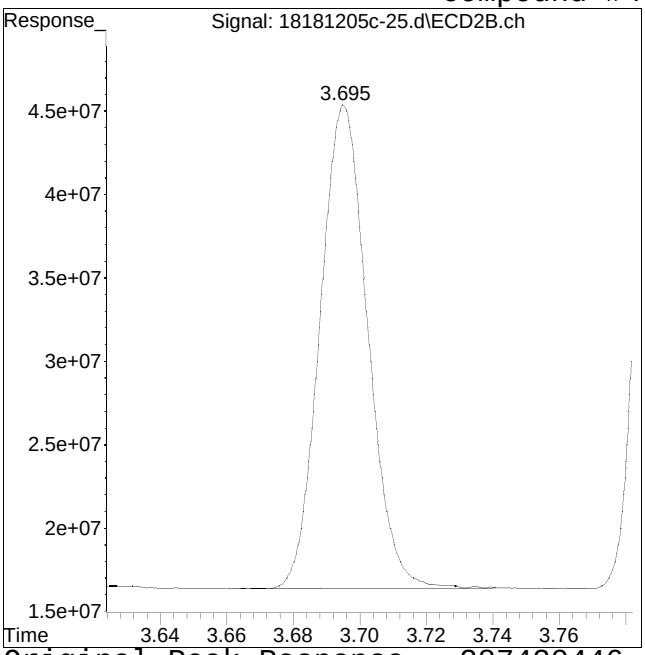


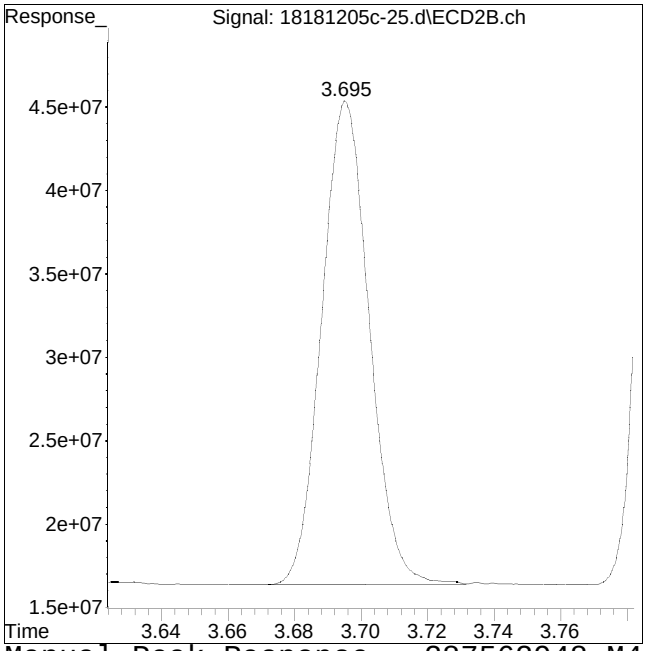
Original Peak Response = 259082551 Manual Peak Response = 259928952 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181205c\ QMethod : pest18_09_19_18_15103.m
Data File : 18181205c-25.d Operator : PEST18:sl
Date Inj'd : 12/5/2018 11:54 pm Instrument : Pest 18
Sample : wg1186046-4,42e,,pest icv Quant Date : 12/6/2018 9:35 am

Compound #48: Alachlor #2



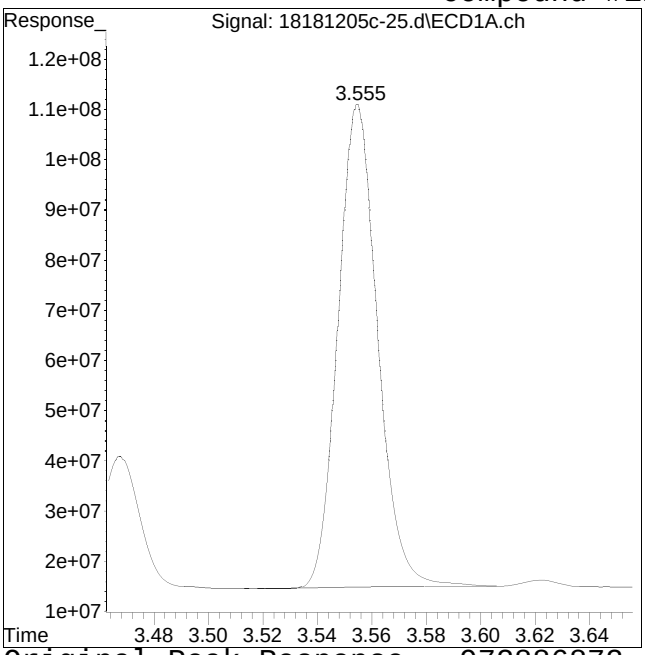


Original Peak Response = 287420446 Manual Peak Response = 287562948 M4
M4 = Poor automated baseline construction.

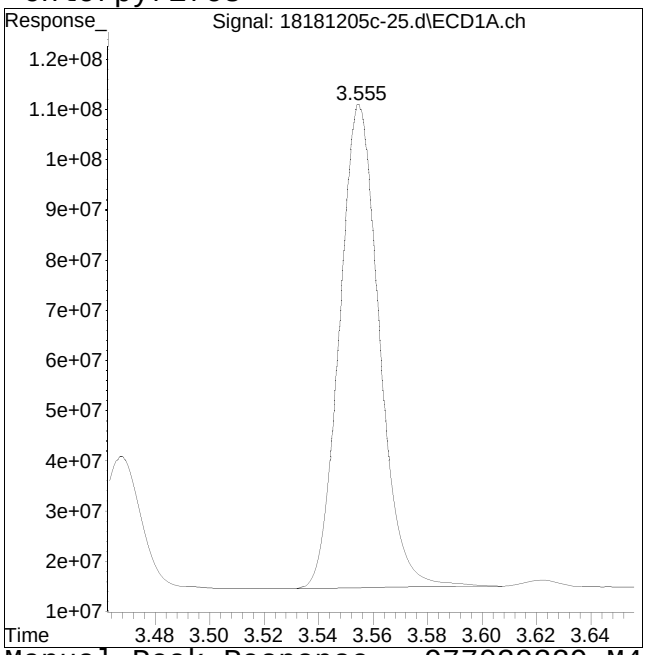
Manual Integration Report

Data Path : I:\Pest18\181205c\ QMethod : pest18_09_19_18_15103.m
Data File : 18181205c-25.d Operator : PEST18:sl
Date Inj'd : 12/5/2018 11:54 pm Instrument : Pest 18
Sample : wg1186046-4,42e,,pest icv Quant Date : 12/6/2018 9:35 am

Compound #11: Chlorpyrifos



Original Peak Response = 972886872



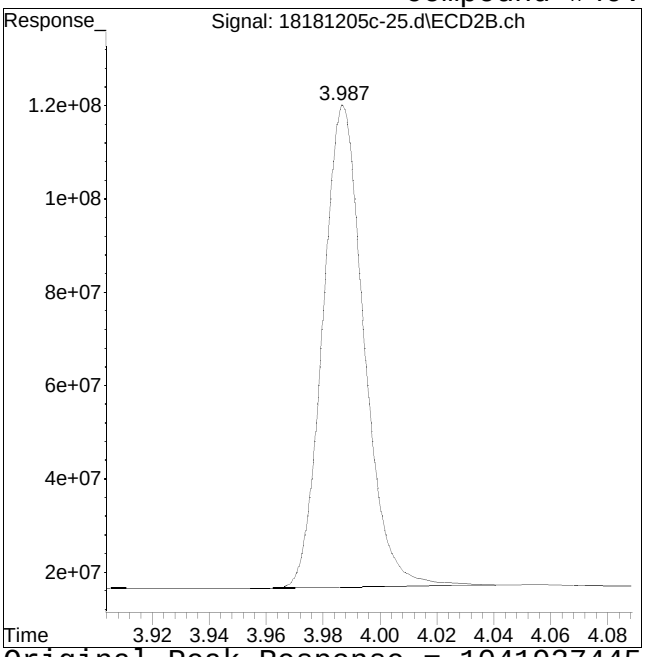
Manual Peak Response = 977039329 M4

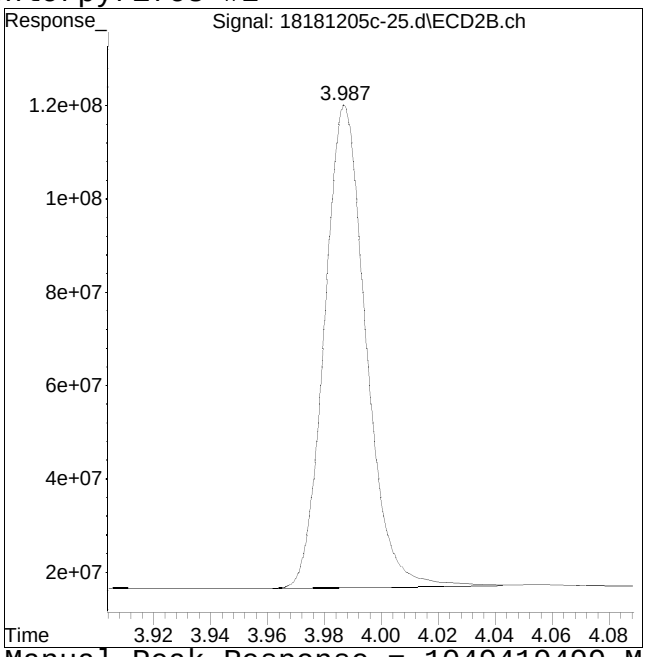
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181205c\ QMethod : pest18_09_19_18_15103.m
Data File : 18181205c-25.d Operator : PEST18:sl
Date Inj'd : 12/5/2018 11:54 pm Instrument : Pest 18
Sample : wg1186046-4,42e,,pest icv Quant Date : 12/6/2018 9:35 am

Compound #49: Chlorpyrifos #2



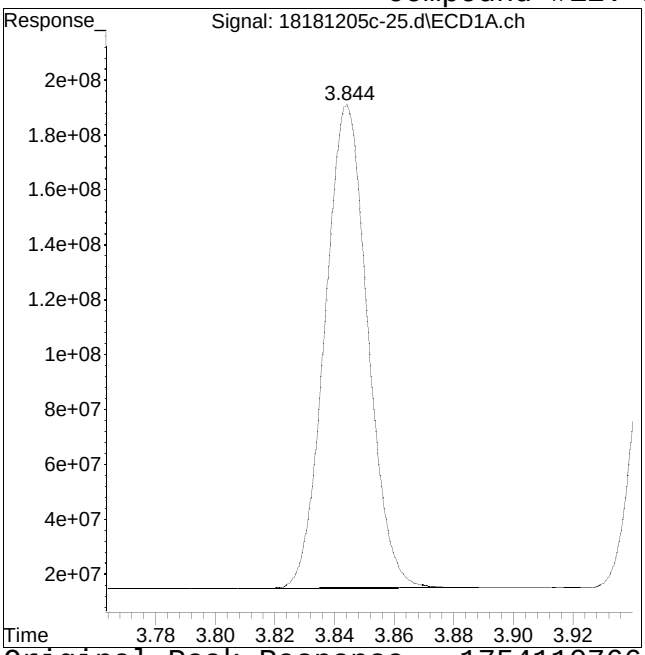


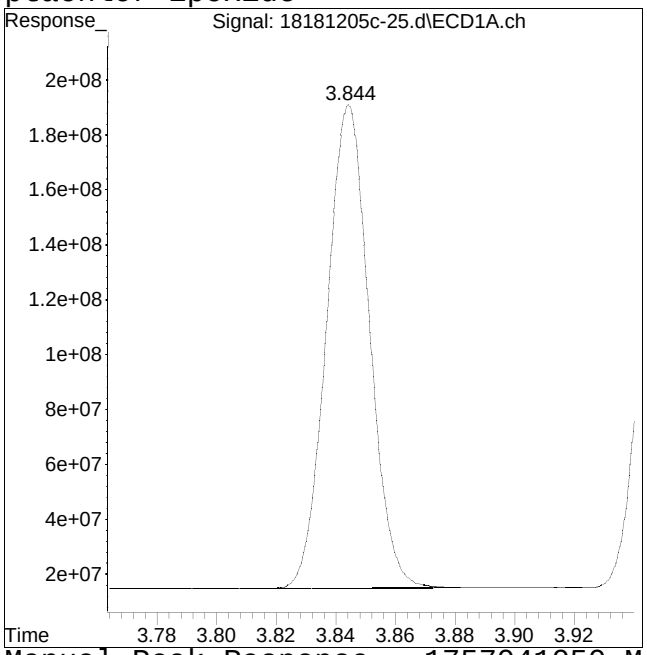
Original Peak Response = 1041937445 Manual Peak Response = 1049419499 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181205c\ QMethod : pest18_09_19_18_15103.m
Data File : 18181205c-25.d Operator : PEST18:sl
Date Inj'd : 12/5/2018 11:54 pm Instrument : Pest 18
Sample : wg1186046-4,42e,,pest icv Quant Date : 12/6/2018 9:35 am

Compound #12: Heptachlor Epoxide



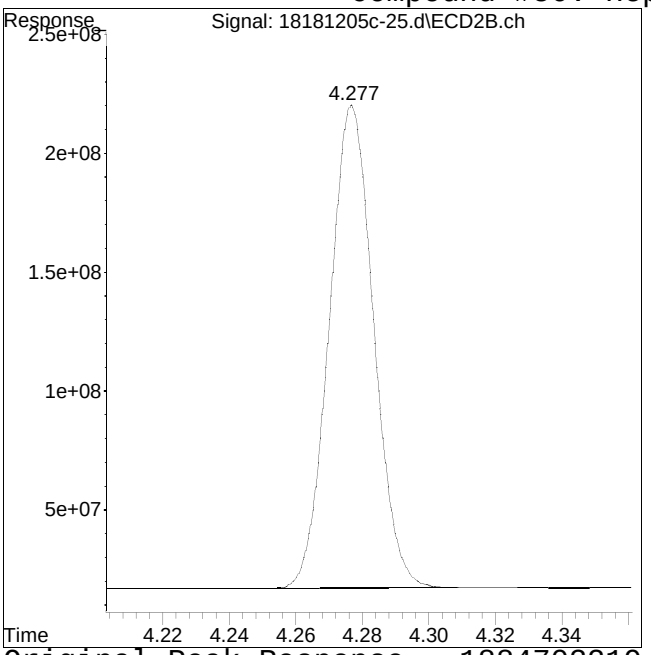


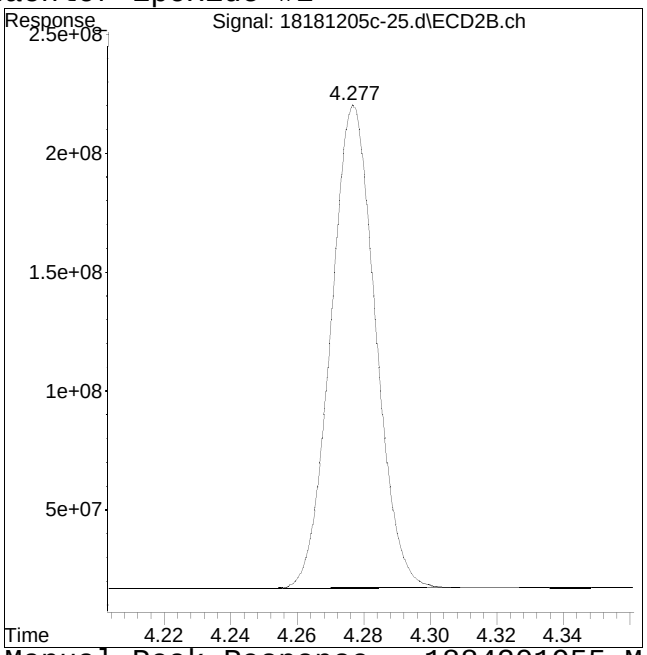
Original Peak Response = 1754110766 Manual Peak Response = 1757041050 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181205c\ QMethod : pest18_09_19_18_15103.m
Data File : 18181205c-25.d Operator : PEST18:sl
Date Inj'd : 12/5/2018 11:54 pm Instrument : Pest 18
Sample : wg1186046-4,42e,,pest icv Quant Date : 12/6/2018 9:35 am

Compound #50: Heptachlor Epoxide #2



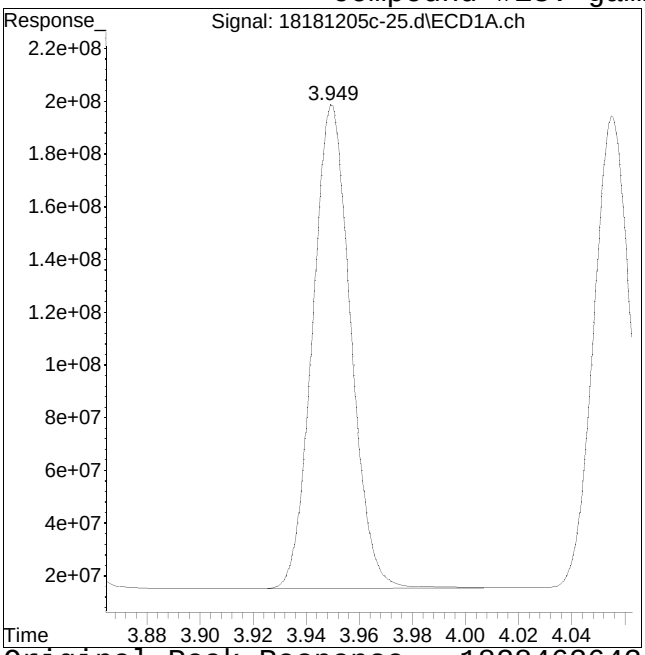


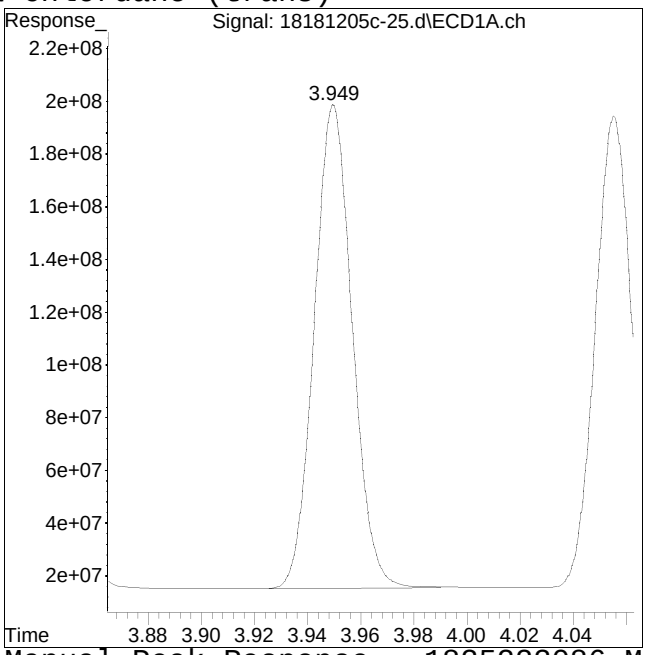
Original Peak Response = 1884703219 Manual Peak Response = 1884201955 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181205c\ QMethod : pest18_09_19_18_15103.m
Data File : 18181205c-25.d Operator : PEST18:sl
Date Inj'd : 12/5/2018 11:54 pm Instrument : Pest 18
Sample : wg1186046-4,42e,,pest icv Quant Date : 12/6/2018 9:35 am

Compound #13: gamma-Chlordane (trans)



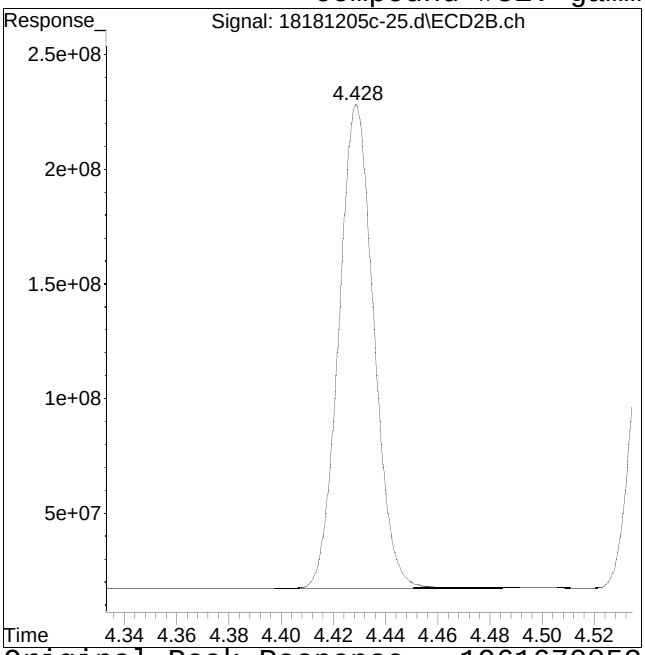


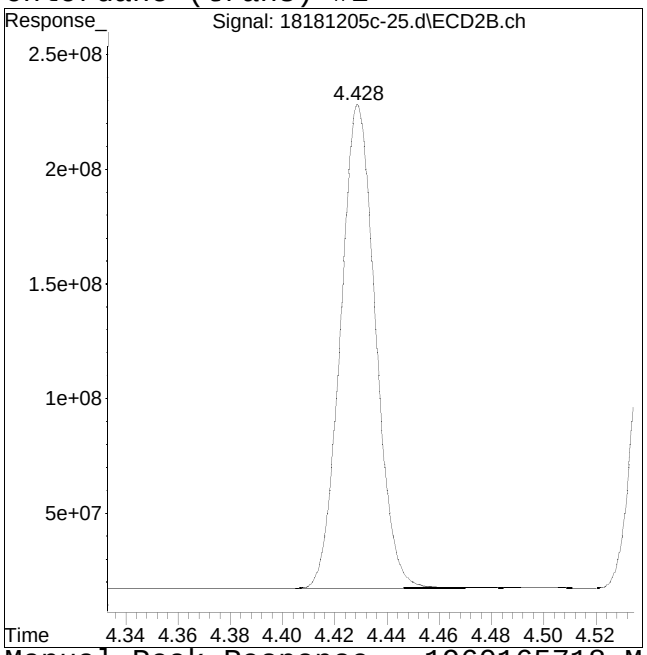
Original Peak Response = 1828463643 Manual Peak Response = 1825223086 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181205c\ QMethod : pest18_09_19_18_15103.m
Data File : 18181205c-25.d Operator : PEST18:sl
Date Inj'd : 12/5/2018 11:54 pm Instrument : Pest 18
Sample : wg1186046-4,42e,,pest icv Quant Date : 12/6/2018 9:35 am

Compound #51: gamma-Chlordane (trans) #2



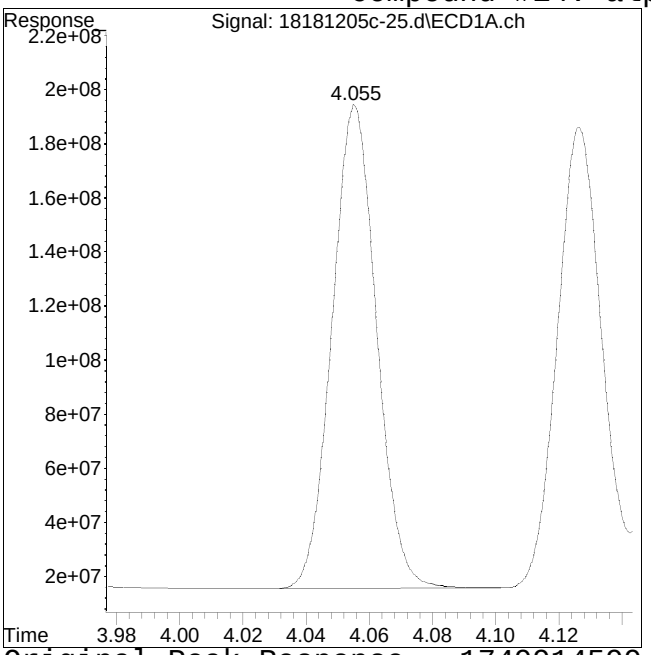


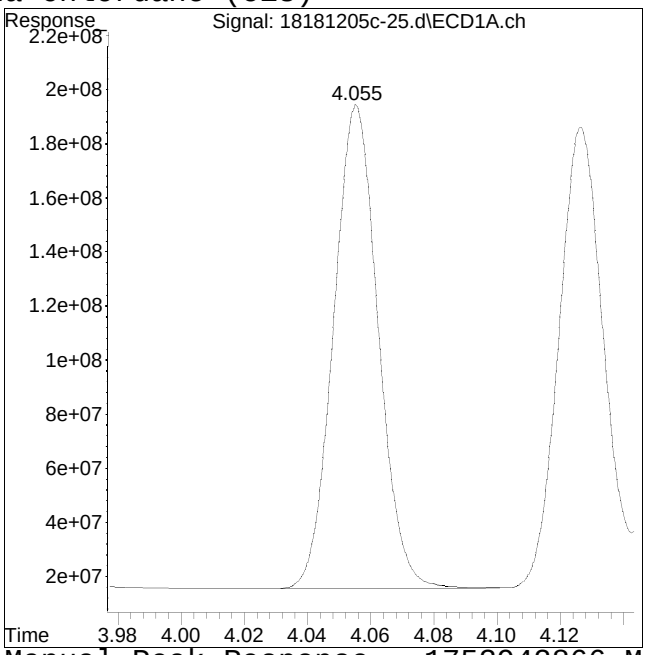
Original Peak Response = 1961670853 Manual Peak Response = 1960165718 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181205c\ QMethod : pest18_09_19_18_15103.m
Data File : 18181205c-25.d Operator : PEST18:sl
Date Inj'd : 12/5/2018 11:54 pm Instrument : Pest 18
Sample : wg1186046-4,42e,,pest icv Quant Date : 12/6/2018 9:35 am

Compound #14: alpha-Chlordane (cis)



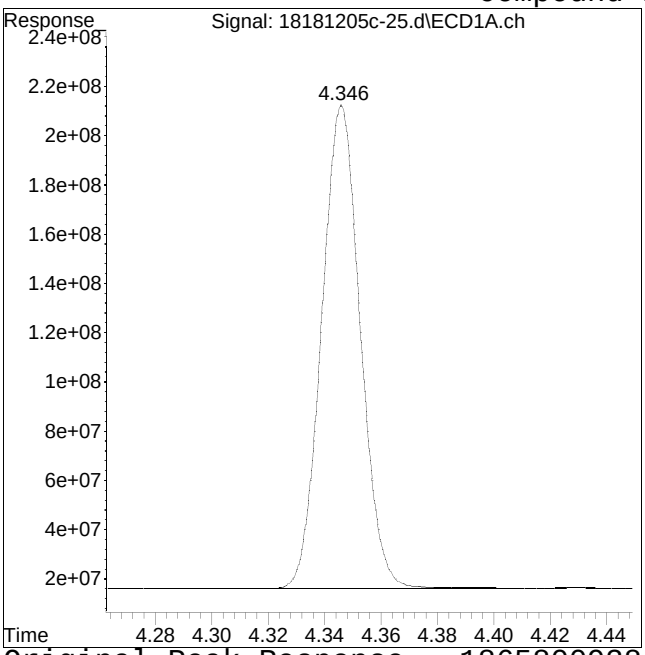


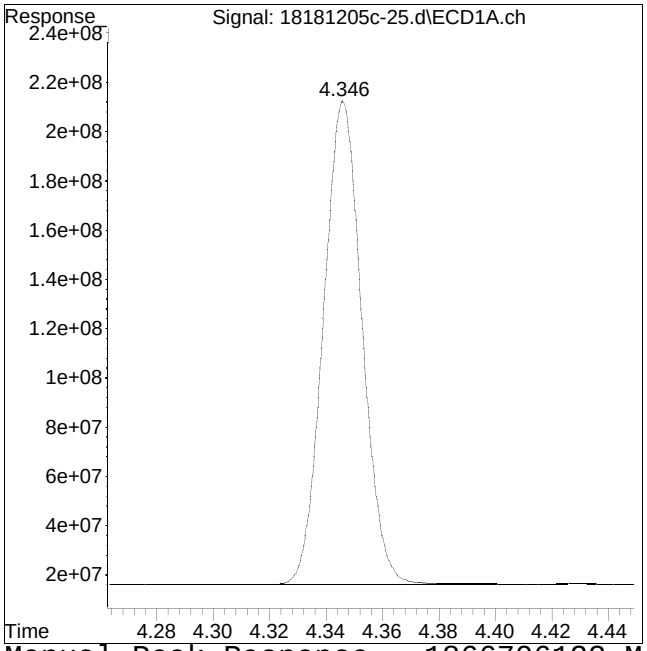
Original Peak Response = 1749914599 Manual Peak Response = 1753942866 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181205c\ QMethod : pest18_09_19_18_15103.m
Data File : 18181205c-25.d Operator : PEST18:sl
Date Inj'd : 12/5/2018 11:54 pm Instrument : Pest 18
Sample : wg1186046-4,42e,,pest icv Quant Date : 12/6/2018 9:35 am

Compound #17: Dieldrin



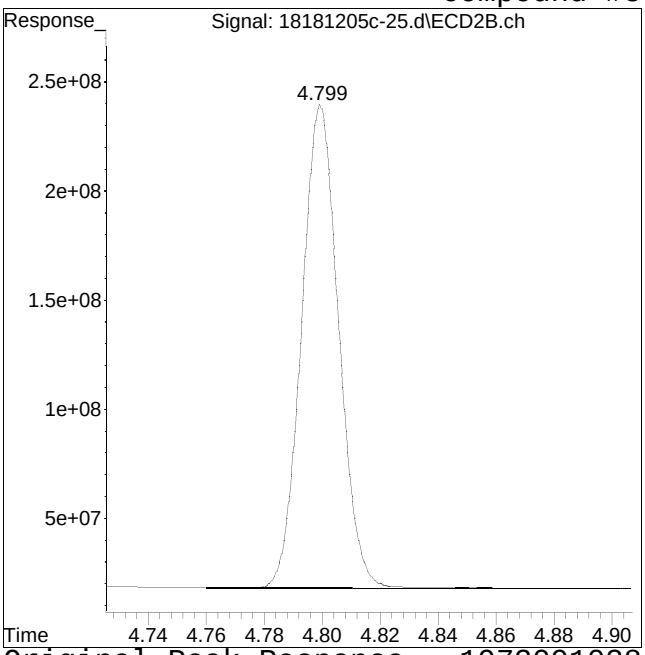


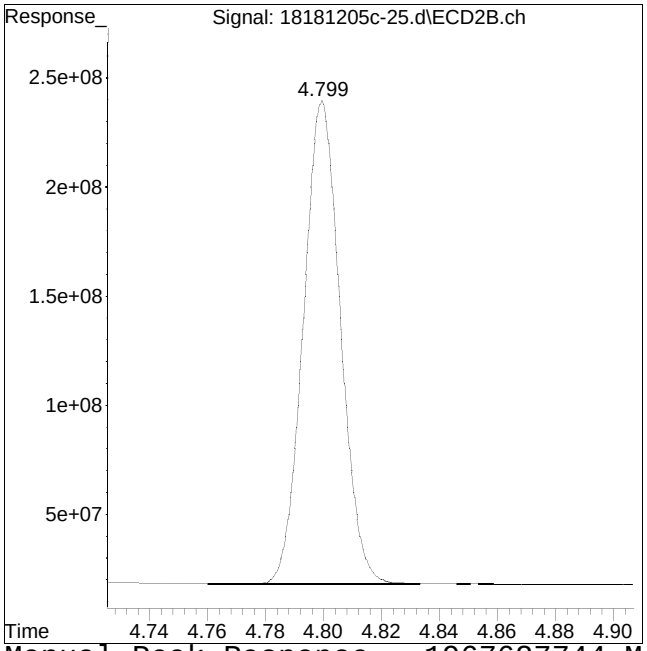
Original Peak Response = 1865800938 Manual Peak Response = 1866706123 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181205c\ QMethod : pest18_09_19_18_15103.m
Data File : 18181205c-25.d Operator : PEST18:sl
Date Inj'd : 12/5/2018 11:54 pm Instrument : Pest 18
Sample : wg1186046-4,42e,,pest icv Quant Date : 12/6/2018 9:35 am

Compound #55: Dieldrin #2



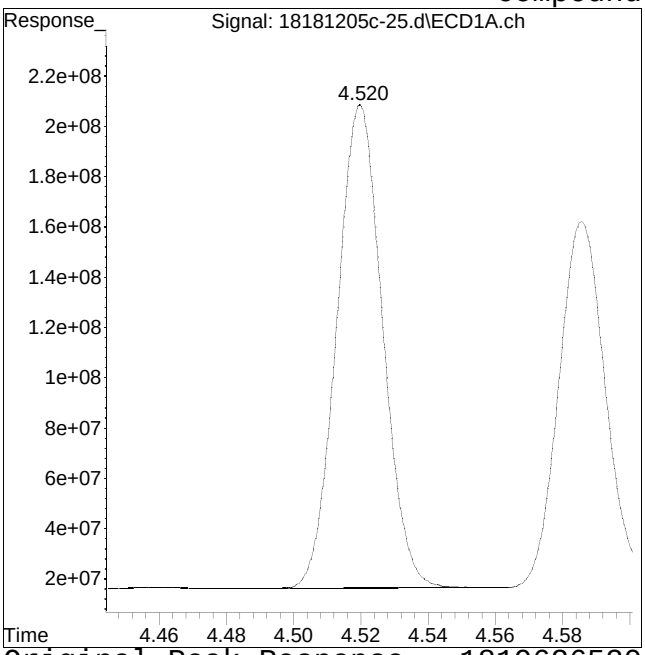


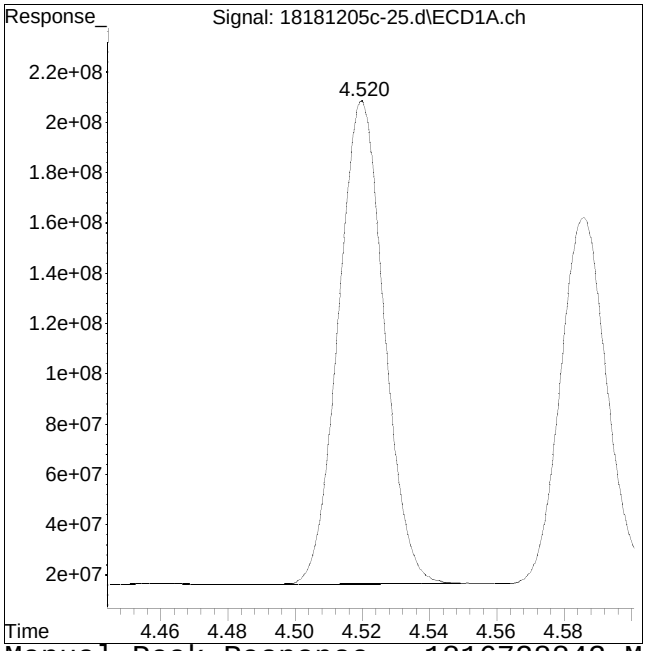
Original Peak Response = 1973091038 Manual Peak Response = 1967627744 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181205c\ QMethod : pest18_09_19_18_15103.m
Data File : 18181205c-25.d Operator : PEST18:sl
Date Inj'd : 12/5/2018 11:54 pm Instrument : Pest 18
Sample : wg1186046-4,42e,,pest icv Quant Date : 12/6/2018 9:35 am

Compound #18: Endrin



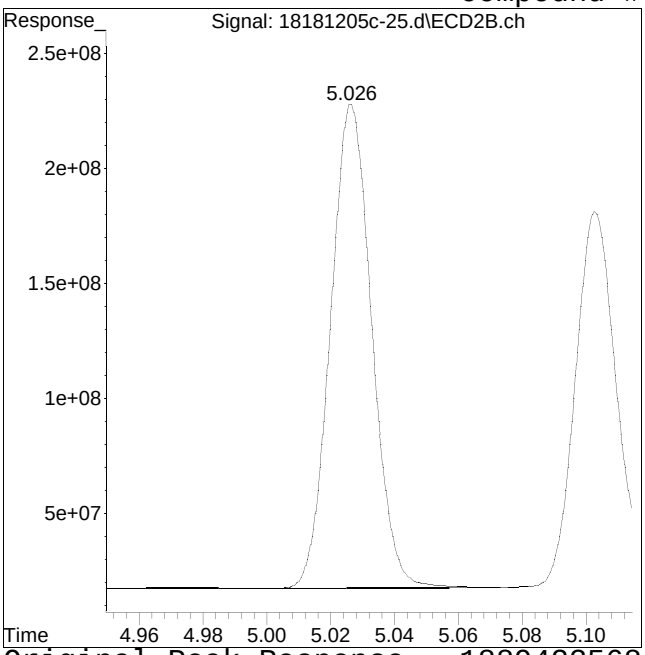


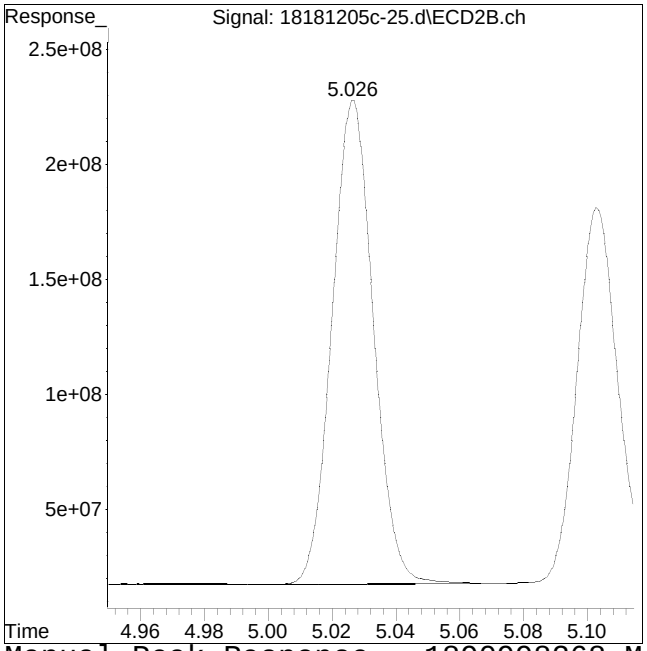
Original Peak Response = 1819626520 Manual Peak Response = 1816728843 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181205c\ QMethod : pest18_09_19_18_15103.m
Data File : 18181205c-25.d Operator : PEST18:sl
Date Inj'd : 12/5/2018 11:54 pm Instrument : Pest 18
Sample : wg1186046-4,42e,,pest icv Quant Date : 12/6/2018 9:35 am

Compound #56: Endrin #2



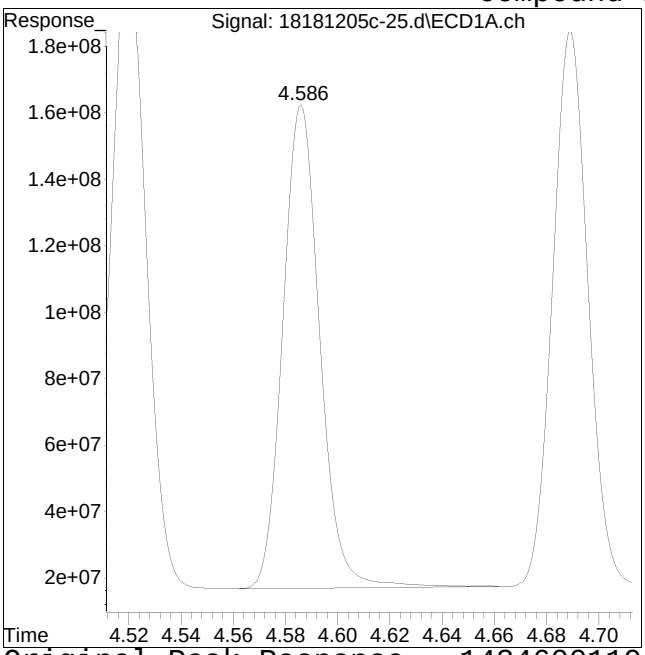


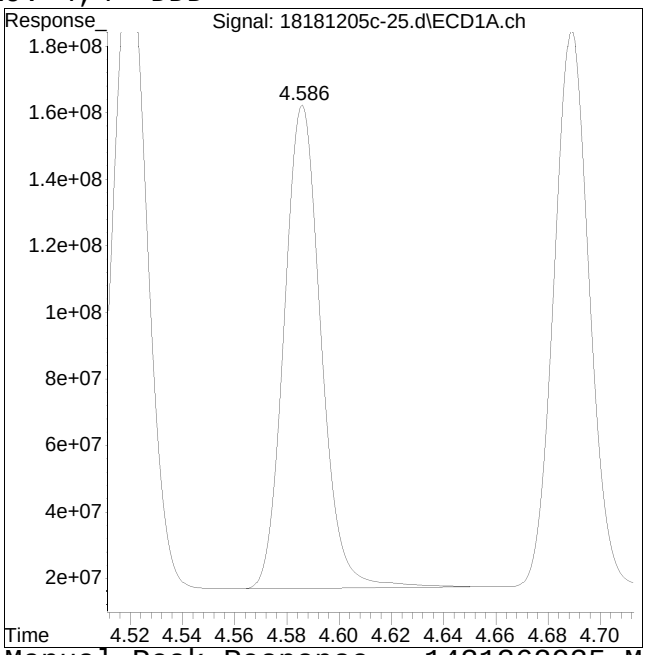
Original Peak Response = 1889423568 Manual Peak Response = 1890998268 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181205c\ QMethod : pest18_09_19_18_15103.m
Data File : 18181205c-25.d Operator : PEST18:sl
Date Inj'd : 12/5/2018 11:54 pm Instrument : Pest 18
Sample : wg1186046-4,42e,,pest icv Quant Date : 12/6/2018 9:35 am

Compound #19: 4,4'-DDD



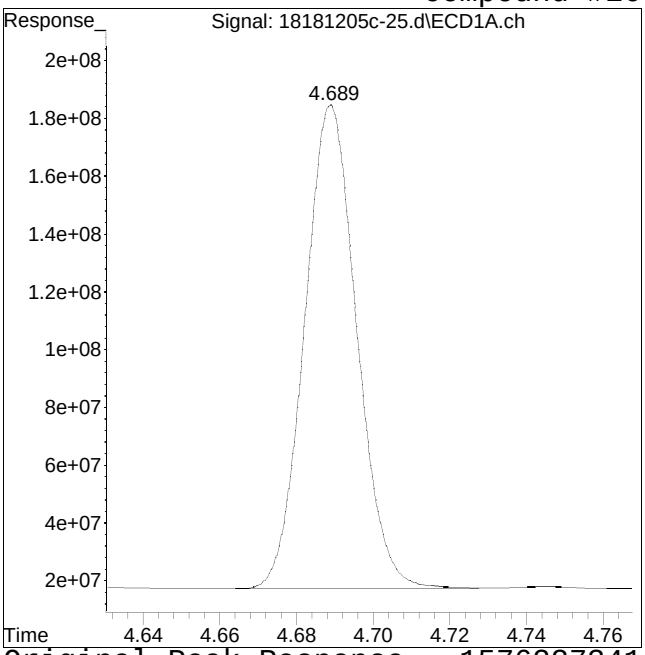


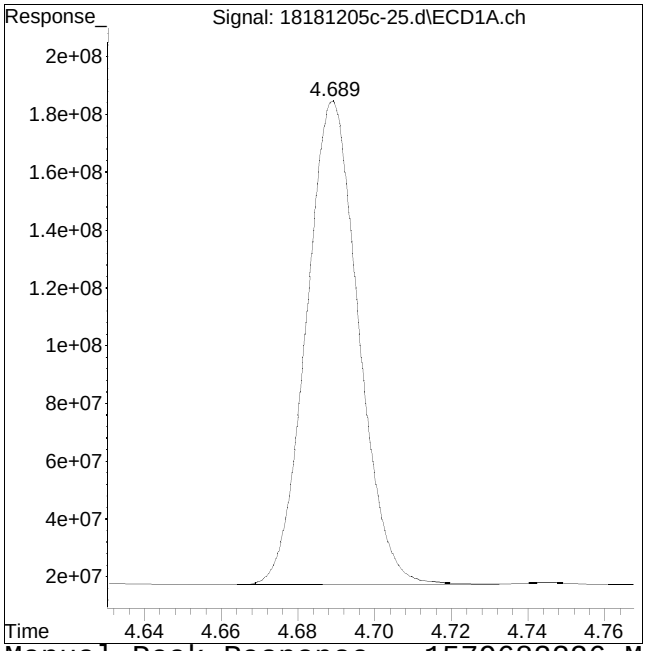
Original Peak Response = 1434600119 Manual Peak Response = 1431362935 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181205c\ QMethod : pest18_09_19_18_15103.m
Data File : 18181205c-25.d Operator : PEST18:sl
Date Inj'd : 12/5/2018 11:54 pm Instrument : Pest 18
Sample : wg1186046-4,42e,,pest icv Quant Date : 12/6/2018 9:35 am

Compound #20: Endosulfan II



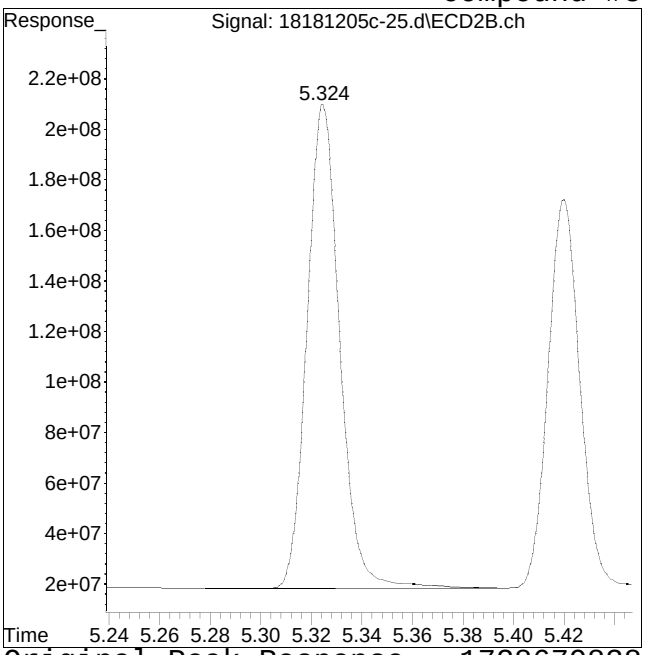


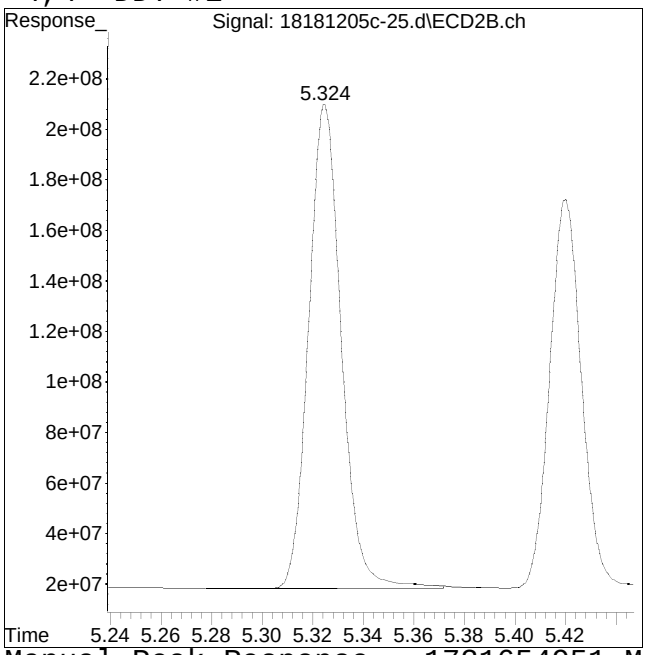
Original Peak Response = 1576227341 Manual Peak Response = 1579682226 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181205c\ QMethod : pest18_09_19_18_15103.m
Data File : 18181205c-25.d Operator : PEST18:sl
Date Inj'd : 12/5/2018 11:54 pm Instrument : Pest 18
Sample : wg1186046-4,42e,,pest icv Quant Date : 12/6/2018 9:35 am

Compound #59: 4,4'-DDT #2



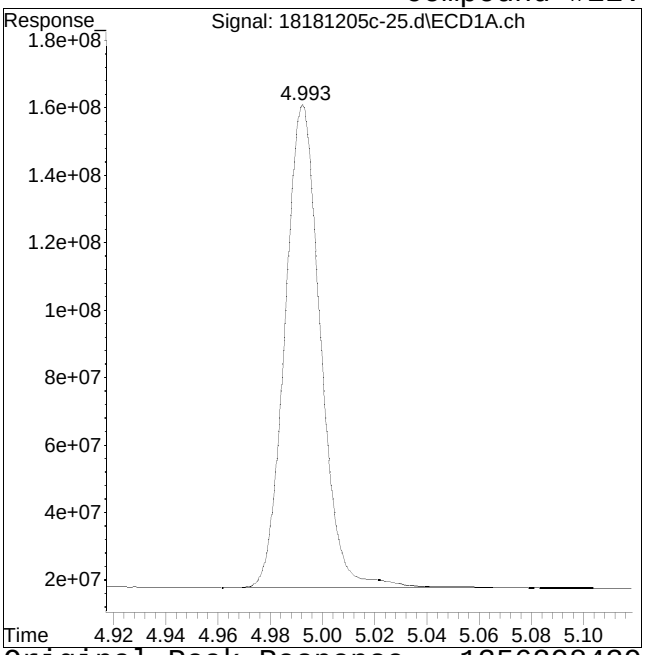


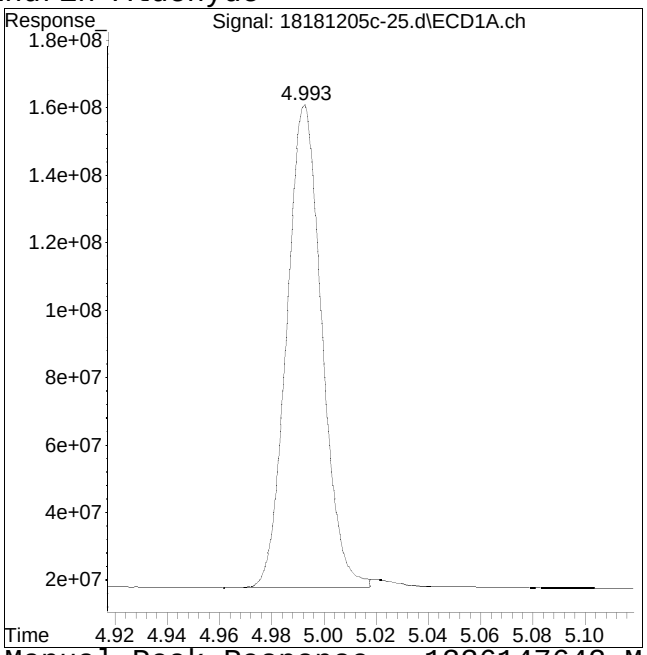
Original Peak Response = 1728679838 Manual Peak Response = 1721654951 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181205c\ QMethod : pest18_09_19_18_15103.m
Data File : 18181205c-25.d Operator : PEST18:sl
Date Inj'd : 12/5/2018 11:54 pm Instrument : Pest 18
Sample : wg1186046-4,42e,,pest icv Quant Date : 12/6/2018 9:35 am

Compound #22: Endrin Aldehyde



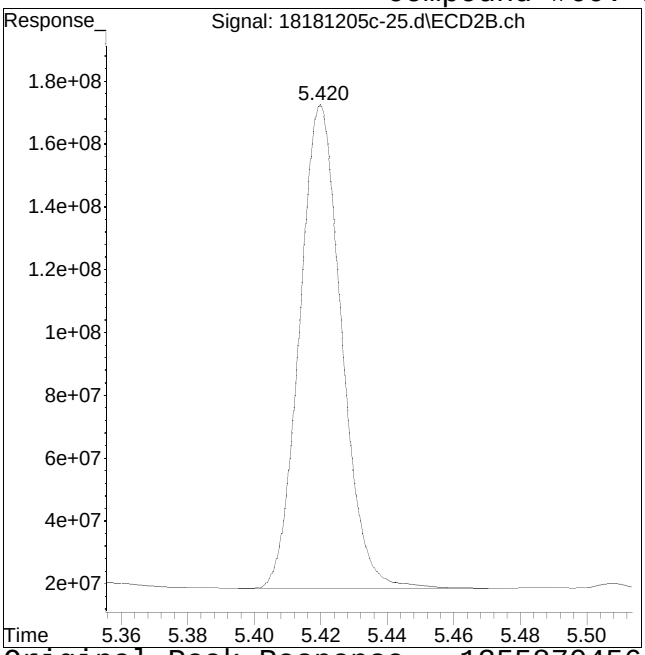


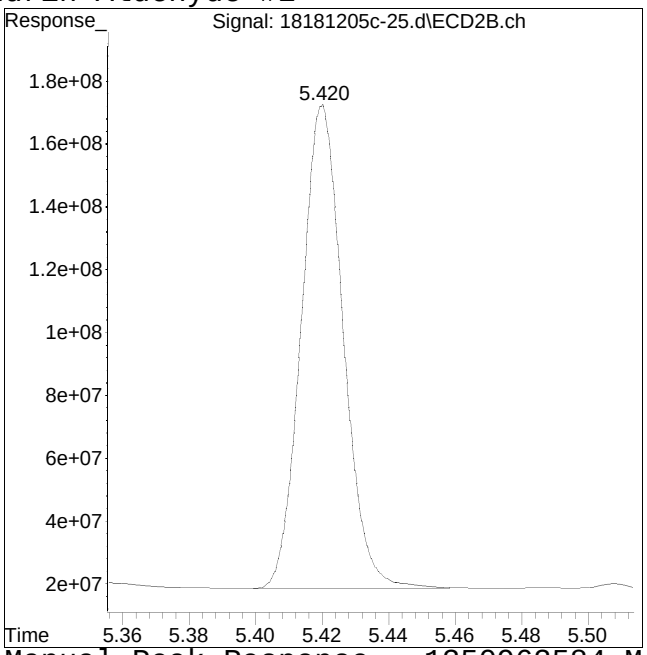
Original Peak Response = 1356298439 Manual Peak Response = 1336147642 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181205c\ QMethod : pest18_09_19_18_15103.m
Data File : 18181205c-25.d Operator : PEST18:sl
Date Inj'd : 12/5/2018 11:54 pm Instrument : Pest 18
Sample : wg1186046-4,42e,,pest icv Quant Date : 12/6/2018 9:35 am

Compound #60: Endrin Aldehyde #2



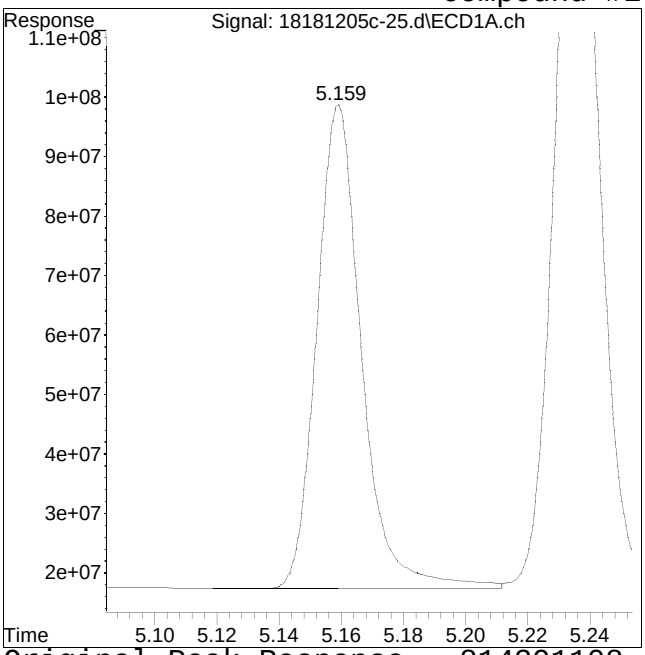


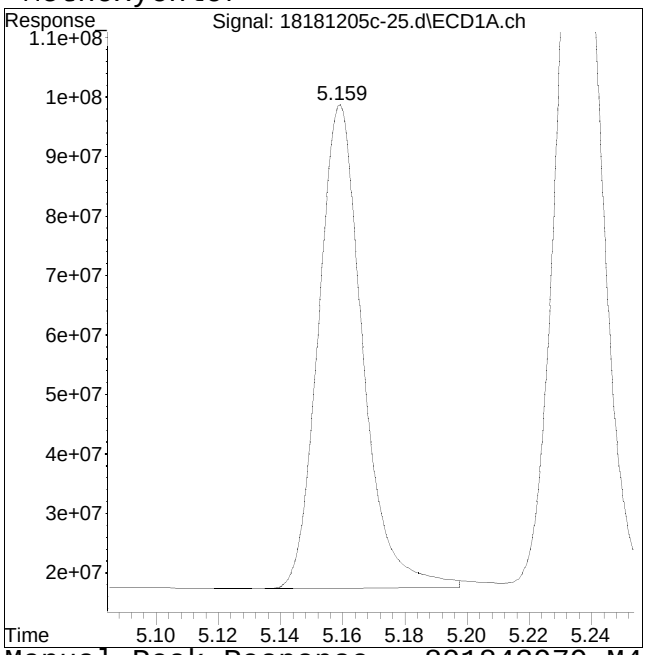
Original Peak Response = 1355870456 Manual Peak Response = 1350963584 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181205c\ QMethod : pest18_09_19_18_15103.m
Data File : 18181205c-25.d Operator : PEST18:sl
Date Inj'd : 12/5/2018 11:54 pm Instrument : Pest 18
Sample : wg1186046-4,42e,,pest icv Quant Date : 12/6/2018 9:35 am

Compound #23: Methoxychlor



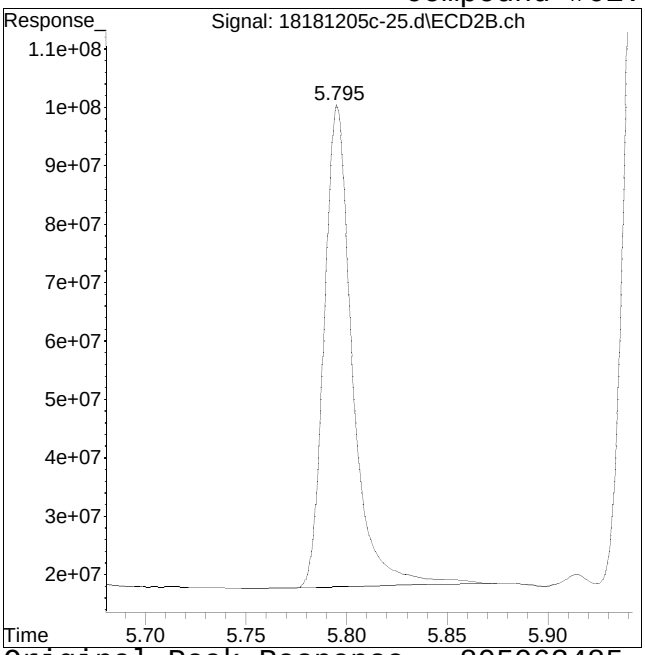


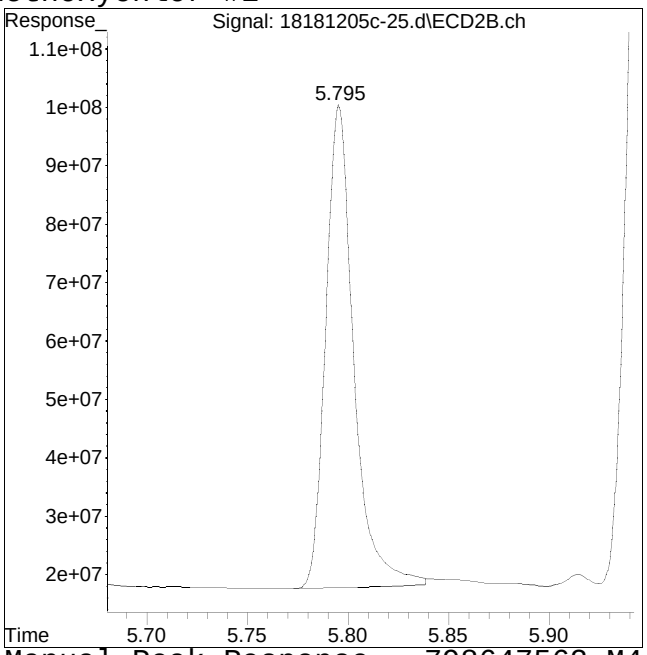
Original Peak Response = 814391108 Manual Peak Response = 801843979 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181205c\ QMethod : pest18_09_19_18_15103.m
Data File : 18181205c-25.d Operator : PEST18:sl
Date Inj'd : 12/5/2018 11:54 pm Instrument : Pest 18
Sample : wg1186046-4,42e,,pest icv Quant Date : 12/6/2018 9:35 am

Compound #61: Methoxychlor #2



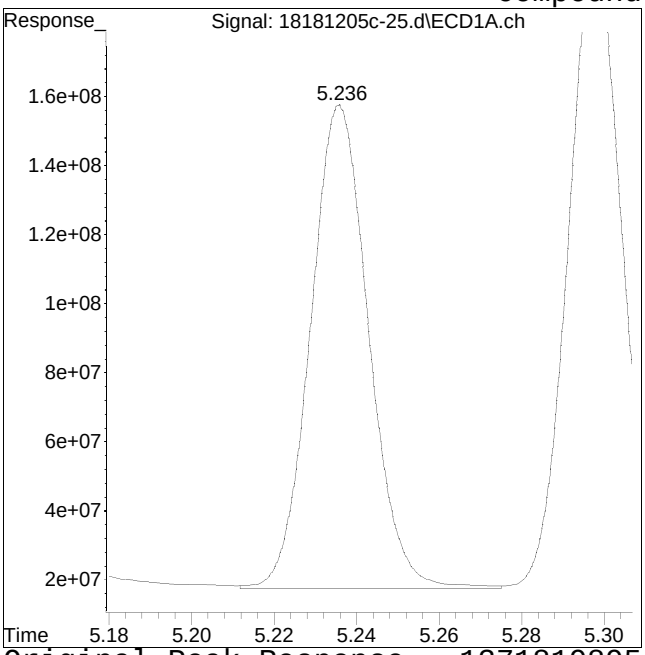


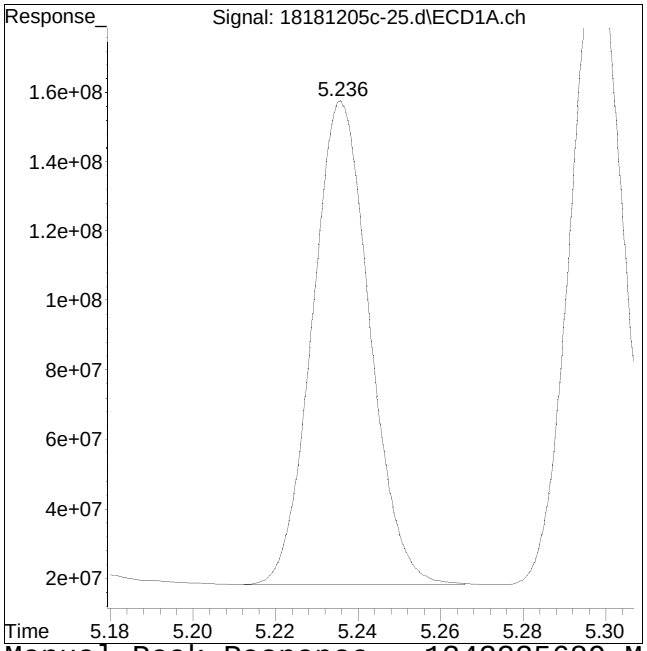
Original Peak Response = 805063485 Manual Peak Response = 798647562 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181205c\ QMethod : pest18_09_19_18_15103.m
Data File : 18181205c-25.d Operator : PEST18:sl
Date Inj'd : 12/5/2018 11:54 pm Instrument : Pest 18
Sample : wg1186046-4,42e,,pest icv Quant Date : 12/6/2018 9:35 am

Compound #24: Mirex



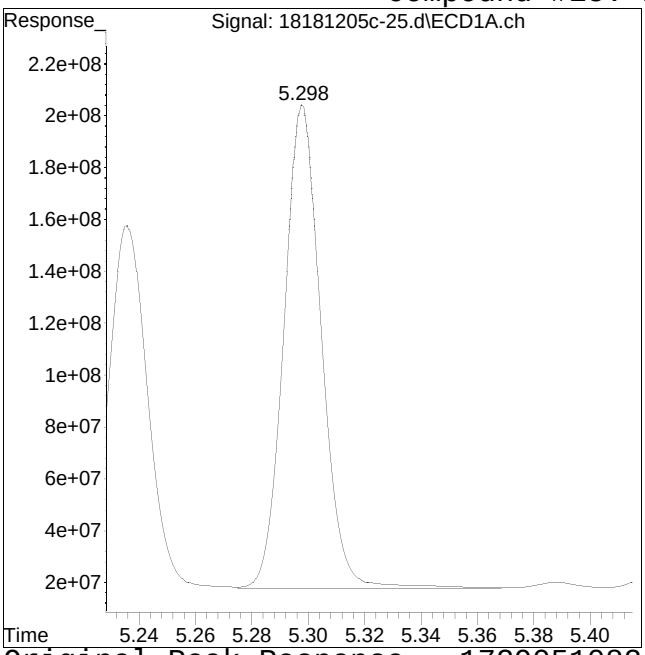


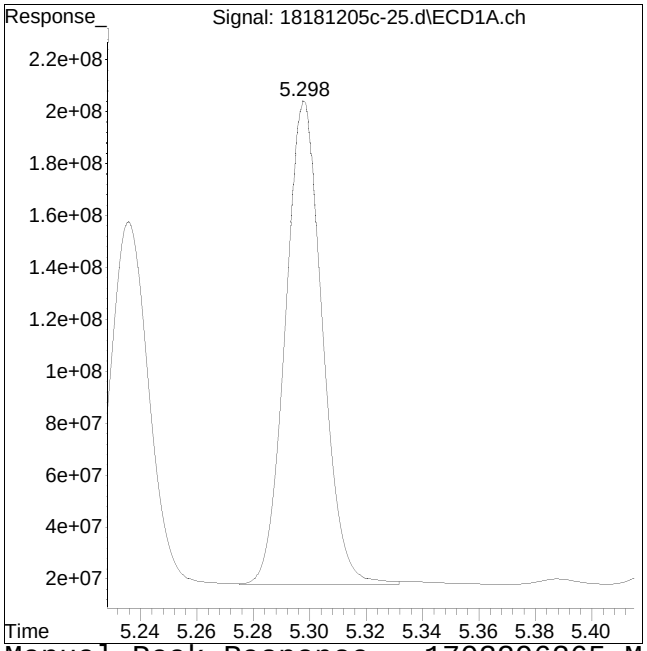
Original Peak Response = 1371819895 Manual Peak Response = 1343335689 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181205c\ QMethod : pest18_09_19_18_15103.m
Data File : 18181205c-25.d Operator : PEST18:sl
Date Inj'd : 12/5/2018 11:54 pm Instrument : Pest 18
Sample : wg1186046-4,42e,,pest icv Quant Date : 12/6/2018 9:35 am

Compound #25: Endosulfan Sulfate



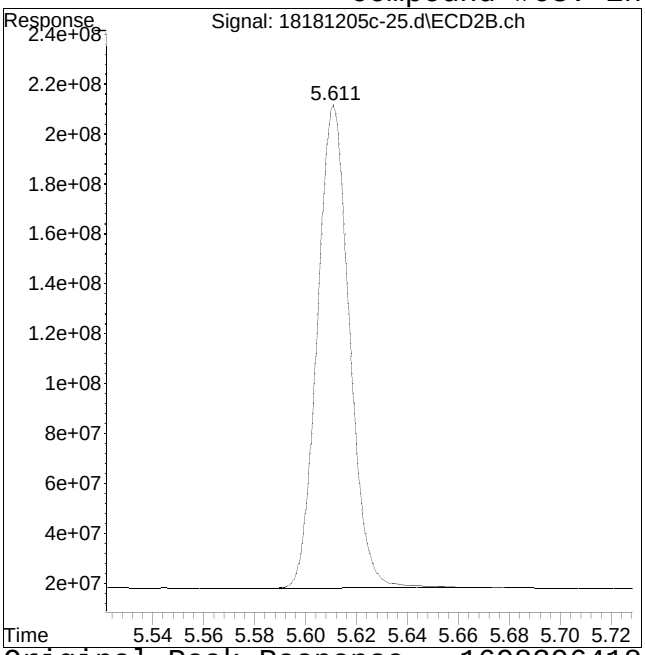


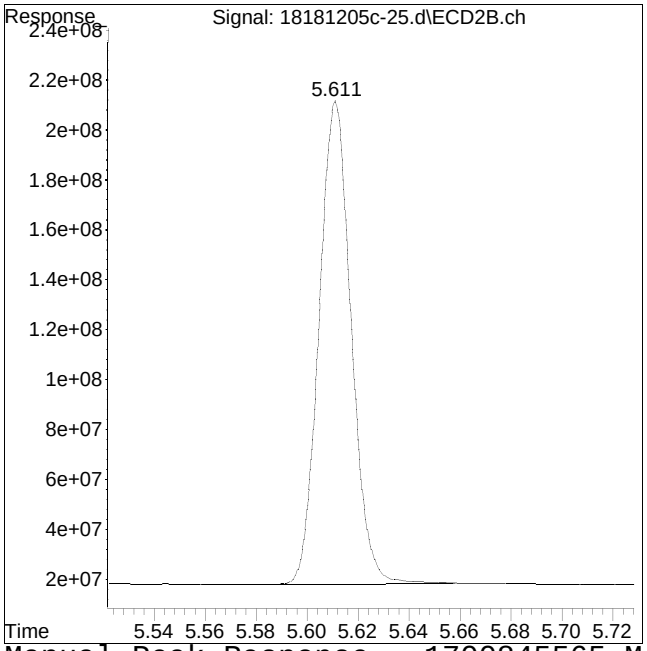
Original Peak Response = 1729051082 Manual Peak Response = 1703296265 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181205c\ QMethod : pest18_09_19_18_15103.m
Data File : 18181205c-25.d Operator : PEST18:sl
Date Inj'd : 12/5/2018 11:54 pm Instrument : Pest 18
Sample : wg1186046-4,42e,,pest icv Quant Date : 12/6/2018 9:35 am

Compound #63: Endosulfan Sulfate #2



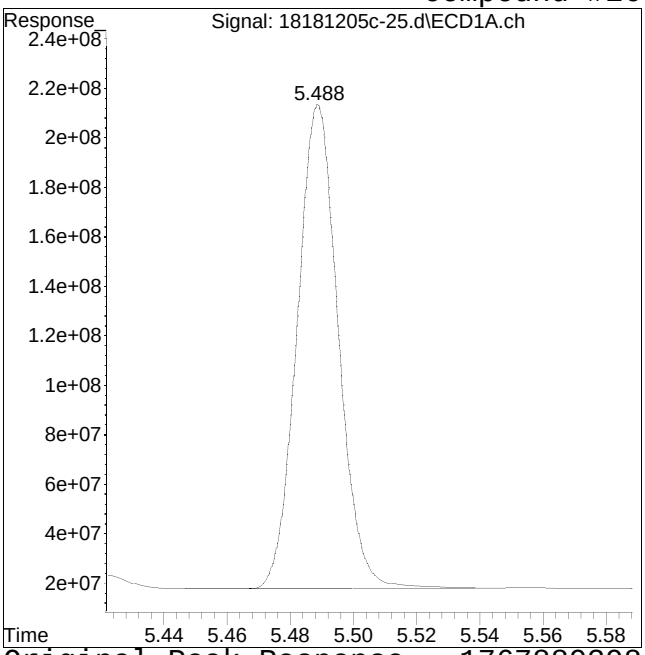


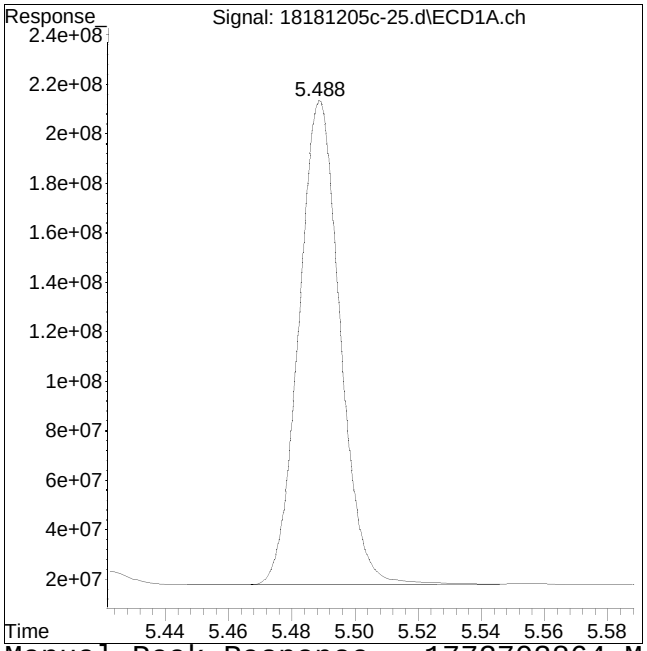
Original Peak Response = 1698396418 Manual Peak Response = 1700845565 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181205c\ QMethod : pest18_09_19_18_15103.m
Data File : 18181205c-25.d Operator : PEST18:sl
Date Inj'd : 12/5/2018 11:54 pm Instrument : Pest 18
Sample : wg1186046-4,42e,,pest icv Quant Date : 12/6/2018 9:35 am

Compound #26: Endrin Ketone



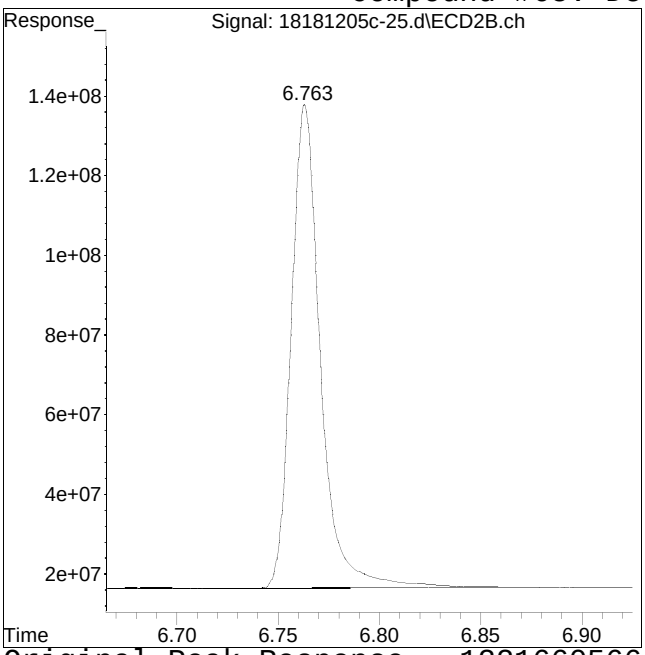


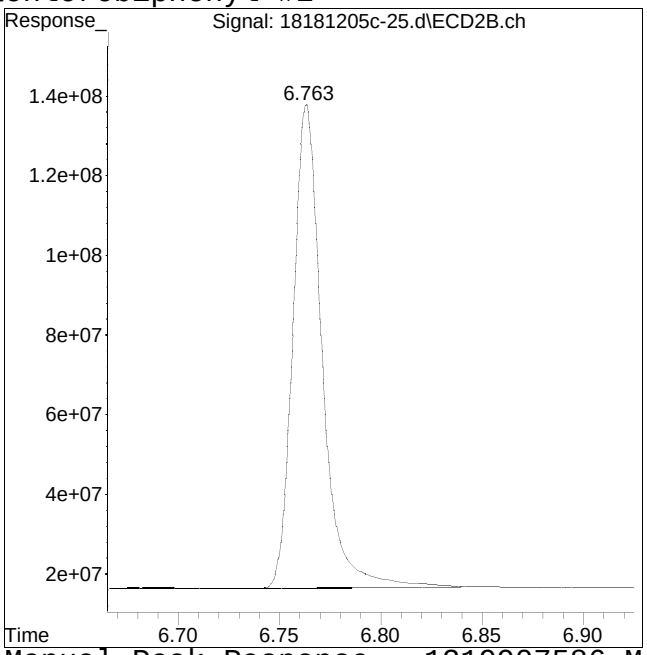
Original Peak Response = 1767889398 Manual Peak Response = 1773703864 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181205c\ QMethod : pest18_09_19_18_15103.m
Data File : 18181205c-25.d Operator : PEST18:sl
Date Inj'd : 12/5/2018 11:54 pm Instrument : Pest 18
Sample : wg1186046-4,42e,,pest icv Quant Date : 12/6/2018 9:35 am

Compound #65: Decachlorobiphenyl #2





Original Peak Response = 1221660566 Manual Peak Response = 1219907586 M4
M4 = Poor automated baseline construction.

Degradation Check Standard

Quantitation Report (QT Reviewed)

Data Path : I:\Pest18\181205c\
Data File : 18181205c-01.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 5 Dec 2018 5:44 pm
Operator : PEST18:sl
Sample : pem1818120501c,42e,,deg pp8910 (Sig #1); deg pp8910 (Sig #2)
Misc : wg1186046,ical15103
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 05 18:48:53 2018
Quant Method : I:\Pest18\181205c\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Wed Dec 05 18:46:40 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : 4_DEG - deg check

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l	
	Internal Standards							
1) i	1-br-2-nb_Pe	1.744	1.854	617.0E6	711.3E6	25.000M4	25.000M4	
	System Monitoring Compounds							
	Target Compounds							
15)	4,4'-DDE	4.125	4.671	10757622	13885261	0.016M4	0.113M2	D
18)	Endrin	4.518	5.025	1445.6E6	1675.3E6	48.433M4	50.044M2	
19)	4,4'-DDD	4.585	5.104	14849048	15458658	0.226M4	0.223M4	
21)	4,4'-DDT	4.793	5.324	2415.8E6	2786.3E6	85.706M4	87.963M4	
22)	Endrin Aldeh	4.989	5.418	4448773	6097535	N.D. M2	N.D. M2	
26)	Endrin Keton	5.486	5.973	20602581	25448818	0.092M5	0.325	D
	Sum chlordane-1			0	0	N.D.	N.D.	
	Average chlordane-1					0.000	0.000	
	Sum toxaphene-1			0	0	N.D.	N.D.	
	Average toxaphene-1					0.000	0.000	
	SemiQuant Compounds - Not Calibrated on this Instrument							
	Sum toxaphene-1			0	0	N.D.	N.D.	
	Average toxaphene-1					0.000	0.000	

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest18\181205c\
Data File : 18181205c-01.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 5 Dec 2018 5:44 pm
Operator : PEST18:sl
Sample : pem1818120501c,42e,,deg pp8910 (Sig #1); deg pp8910 (Sig #2)
Misc : wg1186046,ical15103
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 05 18:48:53 2018
Quant Method : I:\Pest18\181205c\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Wed Dec 05 18:46:40 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : 4_DEG - deg check

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

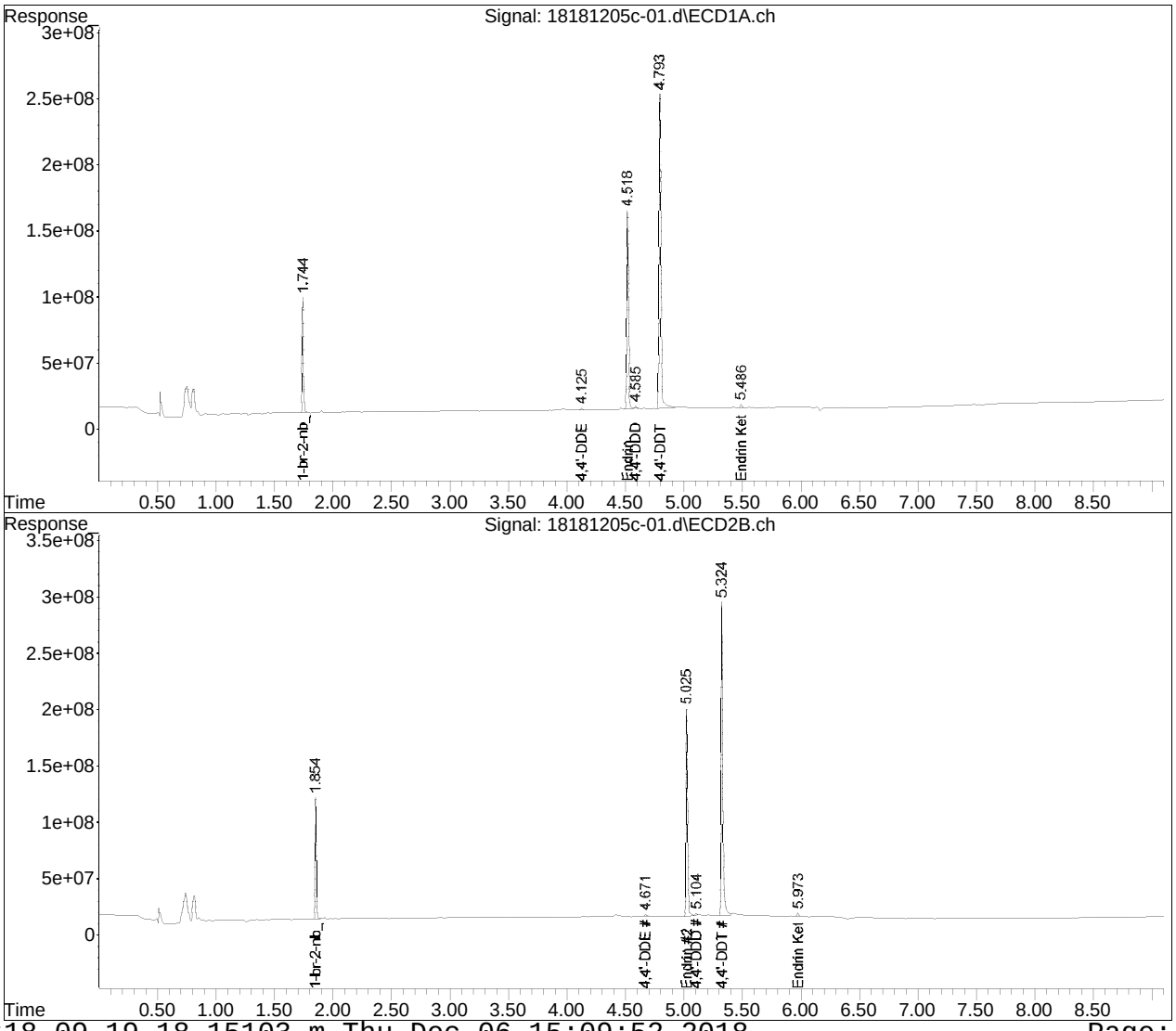
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : 4_DEG - deg checkReport (QT Reviewed)

Data Path : I:\Pest18\181205c\
Data File : 18181205c-01.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 5 Dec 2018 5:44 pm
Operator : PEST18:sl
Sample : pem1818120501c,42e,,deg pp8910 (Sig #1); deg pp8910 (Sig #2)
Misc : wg1186046,ical15103
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 05 18:48:53 2018
Quant Method : I:\Pest18\181205c\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Wed Dec 05 18:46:40 2018
Response via : Initial Calibration
Integrator: ChemStation

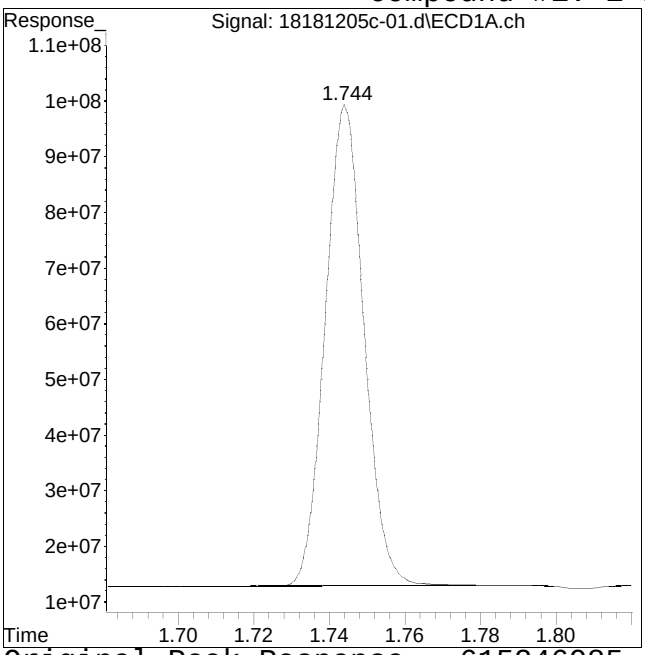
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

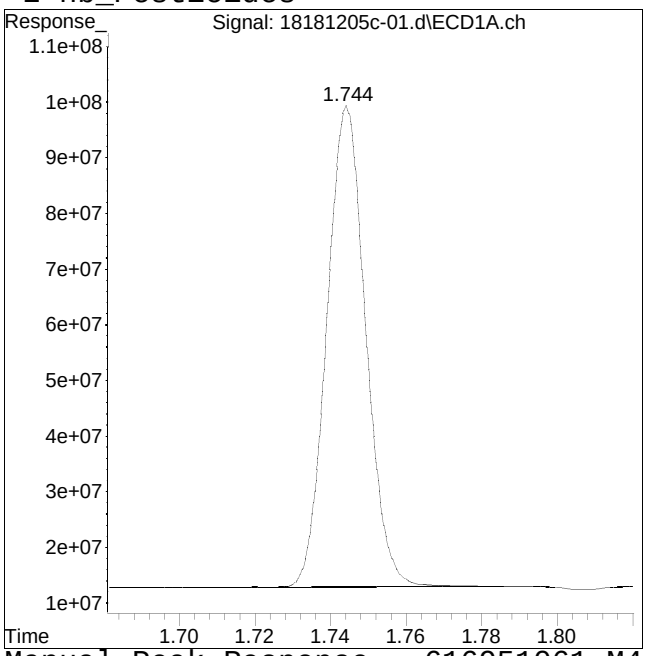


Manual Integration Report

Data Path : I:\Pest18\181205c\ QMethod : pest18_09_19_18_15103.m
Data File : 18181205c-01.d Operator : PEST18:sl
Date Inj'd : 12/5/2018 5:44 pm Instrument : Pest 18
Sample : pem1818120501c,42e,,deg ppQuant Date : 12/5/2018 6:47 pm

Compound #1: 1-br-2-nb_Pesticides



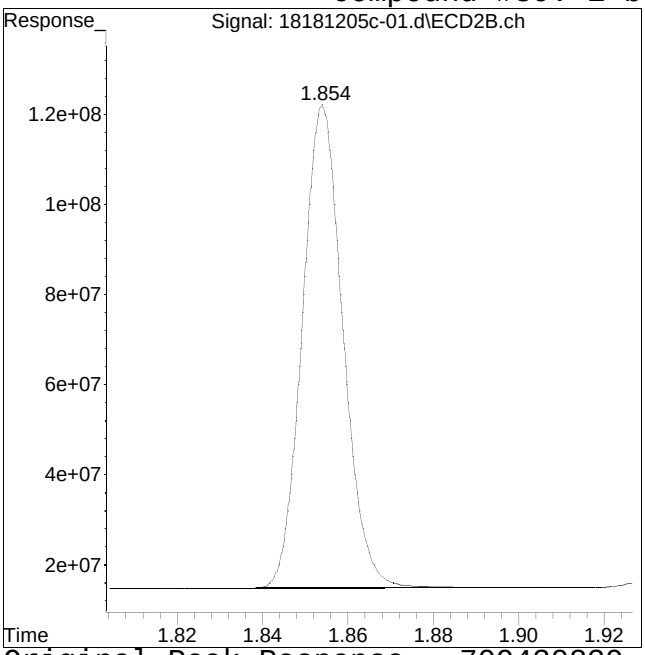


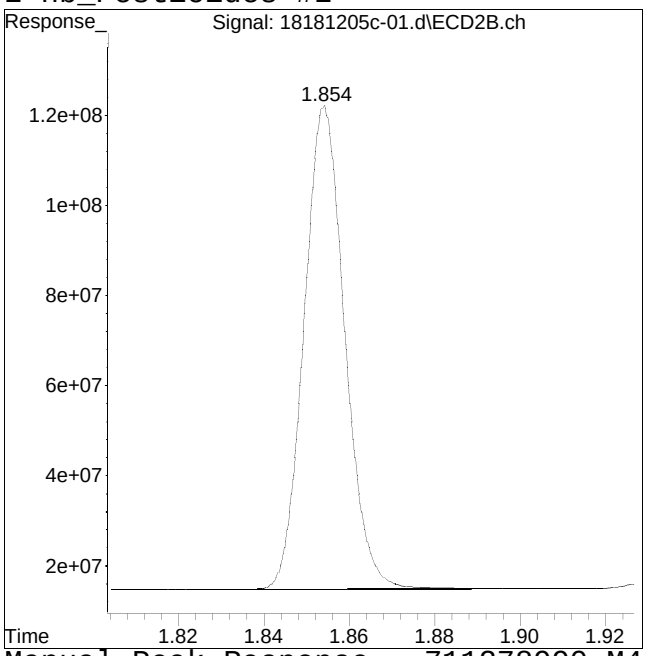
Original Peak Response = 615246985 Manual Peak Response = 616951061 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181205c\ QMethod : pest18_09_19_18_15103.m
Data File : 18181205c-01.d Operator : PEST18:sl
Date Inj'd : 12/5/2018 5:44 pm Instrument : Pest 18
Sample : pem1818120501c,42e,,deg ppQuant Date : 12/5/2018 6:47 pm

Compound #39: 1-br-2-nb_Pesticides #2



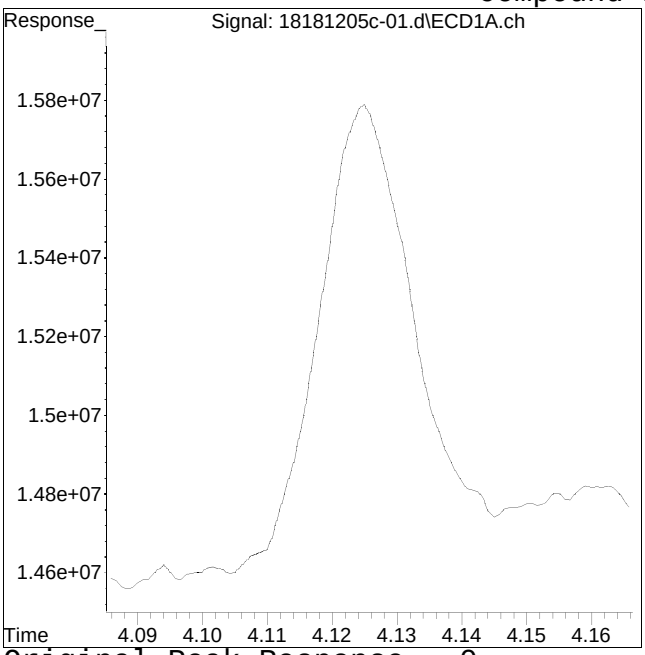


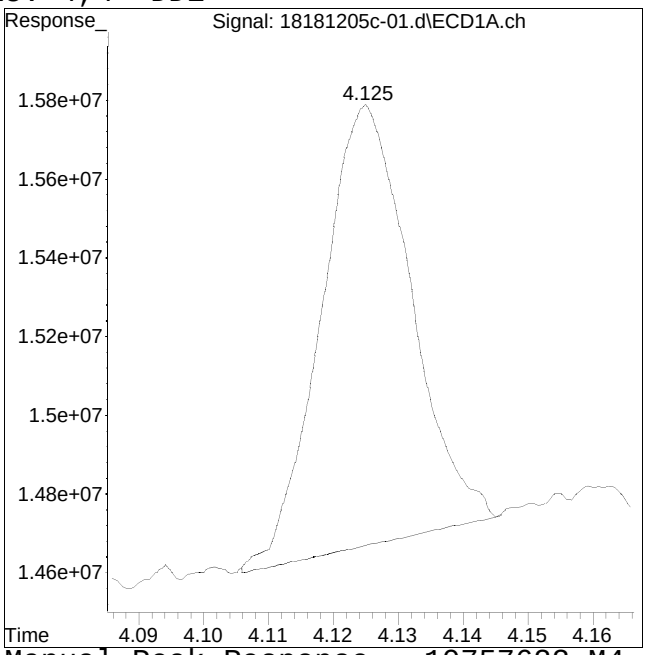
Original Peak Response = 709430239 Manual Peak Response = 711278990 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181205c\ QMethod : pest18_09_19_18_15103.m
Data File : 18181205c-01.d Operator : PEST18:sl
Date Inj'd : 12/5/2018 5:44 pm Instrument : Pest 18
Sample : pem1818120501c,42e,,deg pp Quant Date : 12/5/2018 6:47 pm

Compound #15: 4,4'-DDE



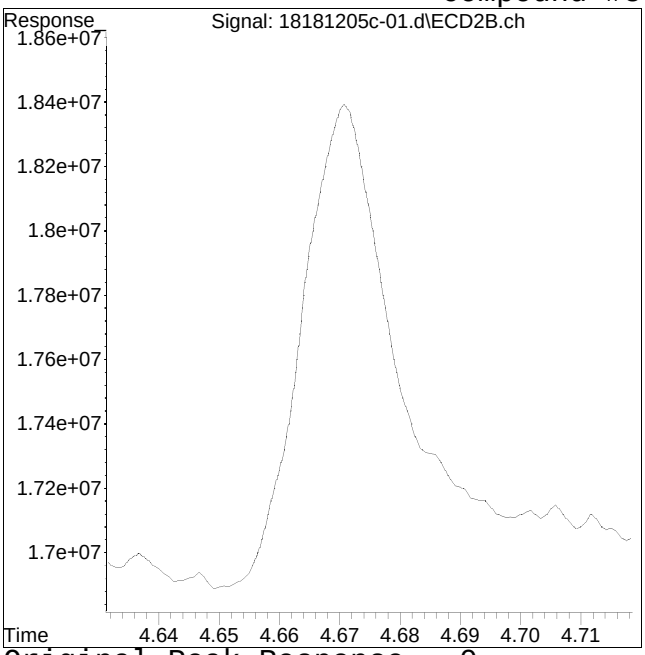


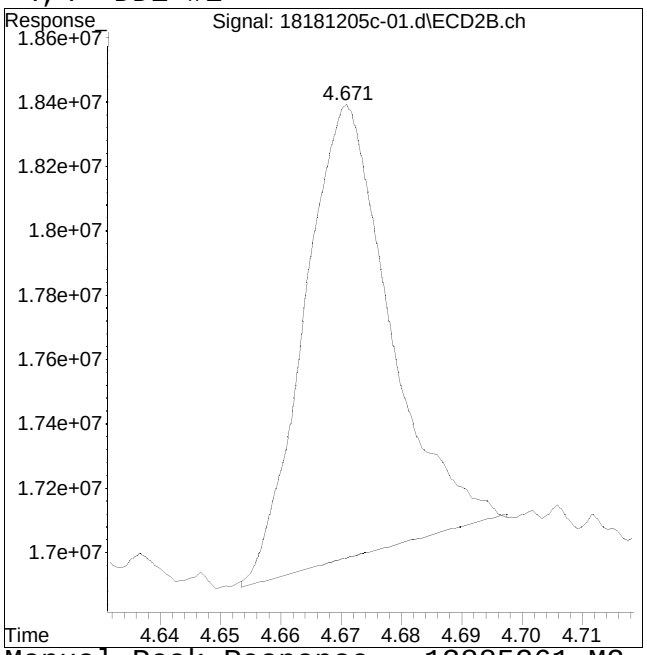
Original Peak Response = 0 Manual Peak Response = 10757622 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181205c\ QMethod : pest18_09_19_18_15103.m
Data File : 18181205c-01.d Operator : PEST18:sl
Date Inj'd : 12/5/2018 5:44 pm Instrument : Pest 18
Sample : pem1818120501c,42e,,deg ppQuant Date : 12/5/2018 6:47 pm

Compound #53: 4,4'-DDE #2



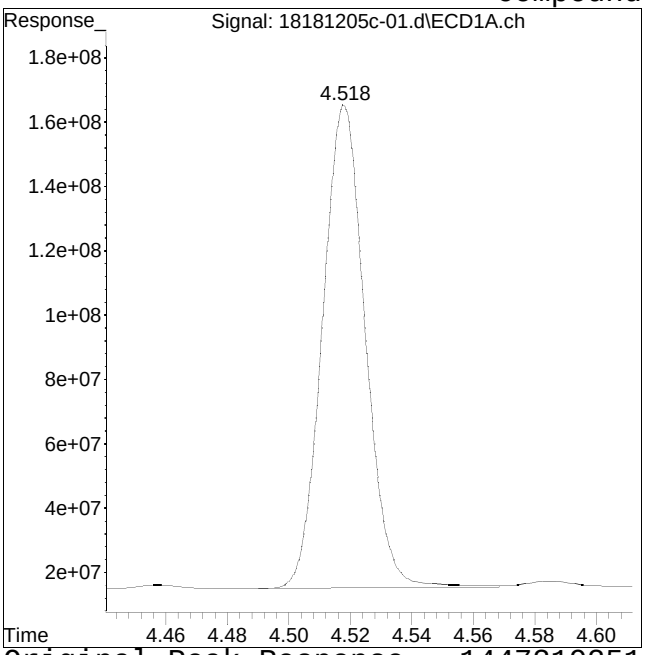


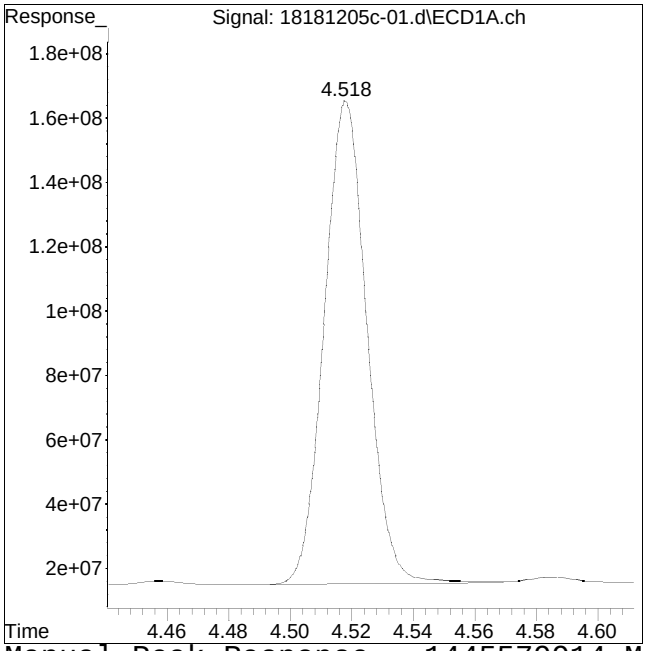
Original Peak Response = 0 Manual Peak Response = 13885261 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\Pest18\181205c\ QMethod : pest18_09_19_18_15103.m
Data File : 18181205c-01.d Operator : PEST18:sl
Date Inj'd : 12/5/2018 5:44 pm Instrument : Pest 18
Sample : pem1818120501c,42e,,deg ppQuant Date : 12/5/2018 6:47 pm

Compound #18: Endrin



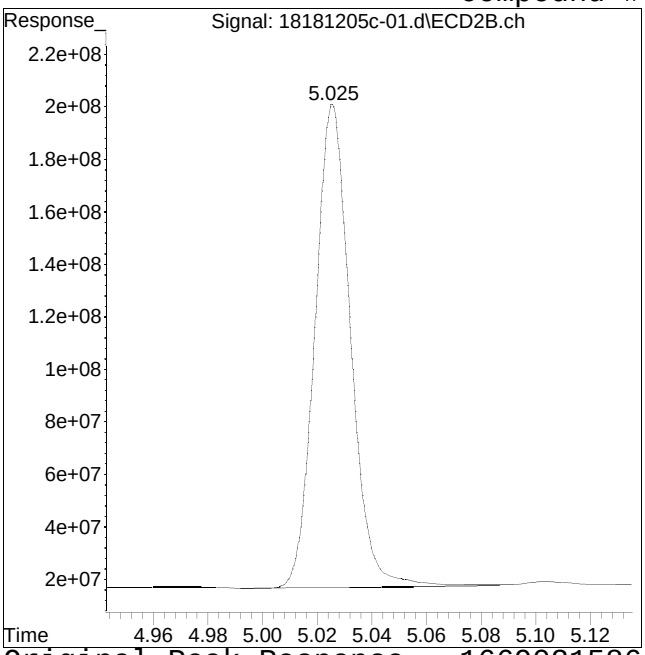


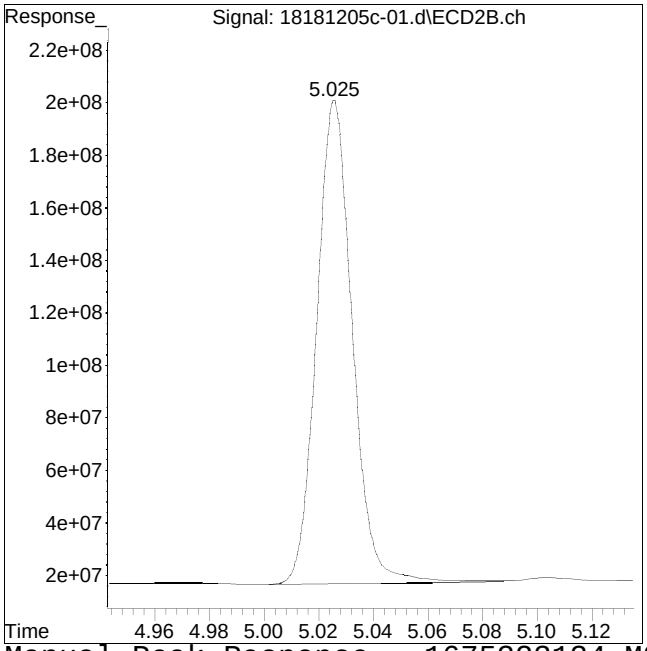
Original Peak Response = 1447219251 Manual Peak Response = 1445579914 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181205c\ QMethod : pest18_09_19_18_15103.m
Data File : 18181205c-01.d Operator : PEST18:sl
Date Inj'd : 12/5/2018 5:44 pm Instrument : Pest 18
Sample : pem1818120501c,42e,,deg ppQuant Date : 12/5/2018 6:47 pm

Compound #56: Endrin #2



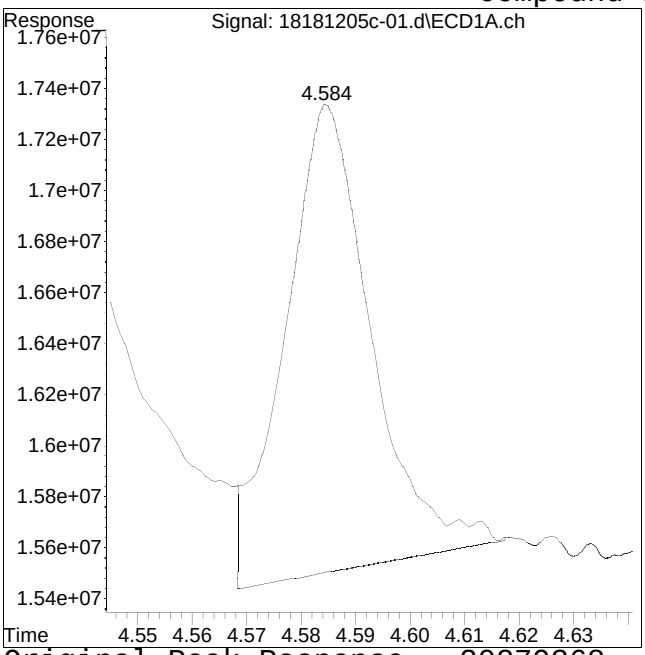


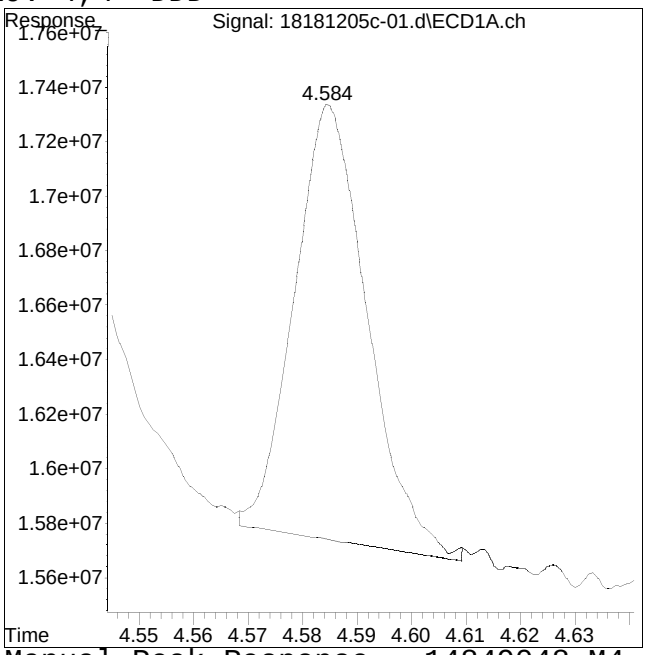
Original Peak Response = 1669021586 Manual Peak Response = 1675323134 M2
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\Pest18\181205c\ QMethod : pest18_09_19_18_15103.m
Data File : 18181205c-01.d Operator : PEST18:sl
Date Inj'd : 12/5/2018 5:44 pm Instrument : Pest 18
Sample : pem1818120501c,42e,,deg ppQuant Date : 12/5/2018 6:47 pm

Compound #19: 4,4'-DDD



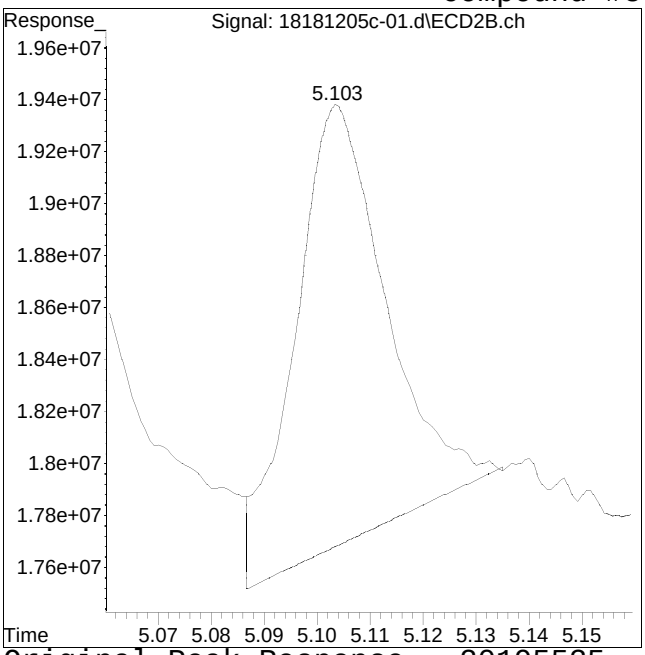


Original Peak Response = 20279368 Manual Peak Response = 14849048 M4
M4 = Poor automated baseline construction.

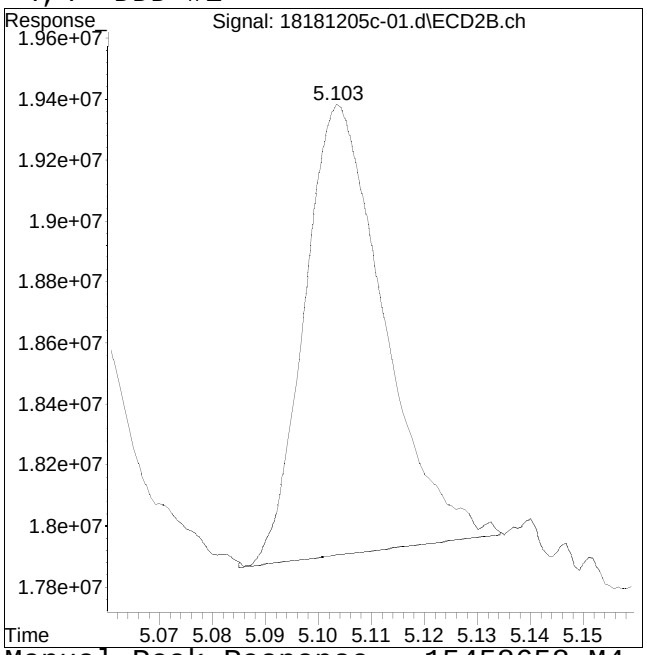
Manual Integration Report

Data Path : I:\Pest18\181205c\ QMethod : pest18_09_19_18_15103.m
Data File : 18181205c-01.d Operator : PEST18:sl
Date Inj'd : 12/5/2018 5:44 pm Instrument : Pest 18
Sample : pem1818120501c,42e,,deg ppQuant Date : 12/5/2018 6:47 pm

Compound #57: 4,4'-DDD #2



Original Peak Response = 20195535



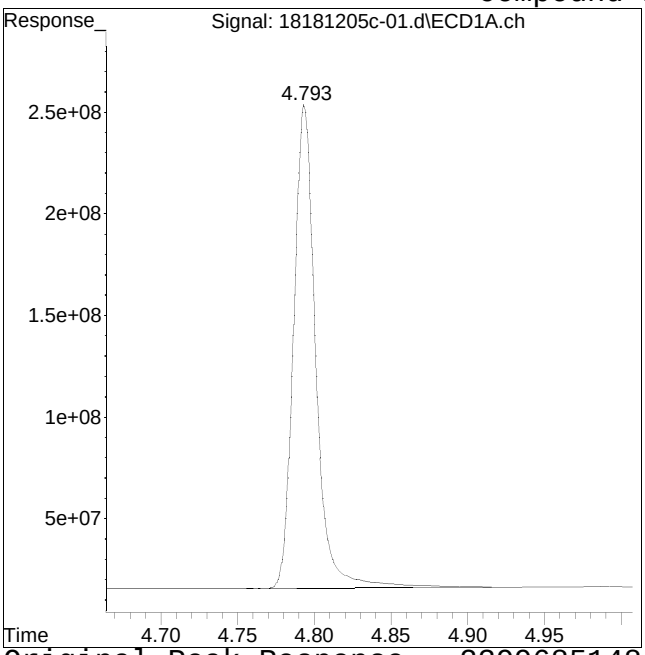
Manual Peak Response = 15458658 M4

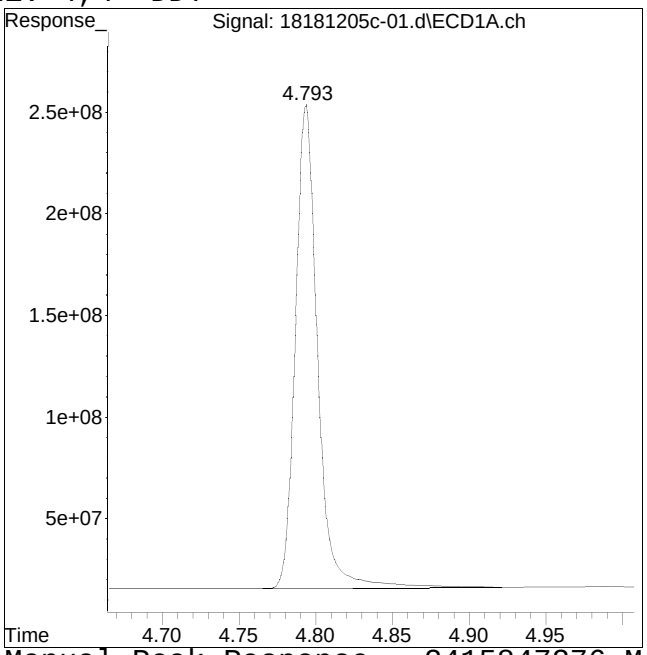
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181205c\ QMethod : pest18_09_19_18_15103.m
Data File : 18181205c-01.d Operator : PEST18:sl
Date Inj'd : 12/5/2018 5:44 pm Instrument : Pest 18
Sample : pem1818120501c,42e,,deg ppQuant Date : 12/5/2018 6:47 pm

Compound #21: 4,4'-DDT



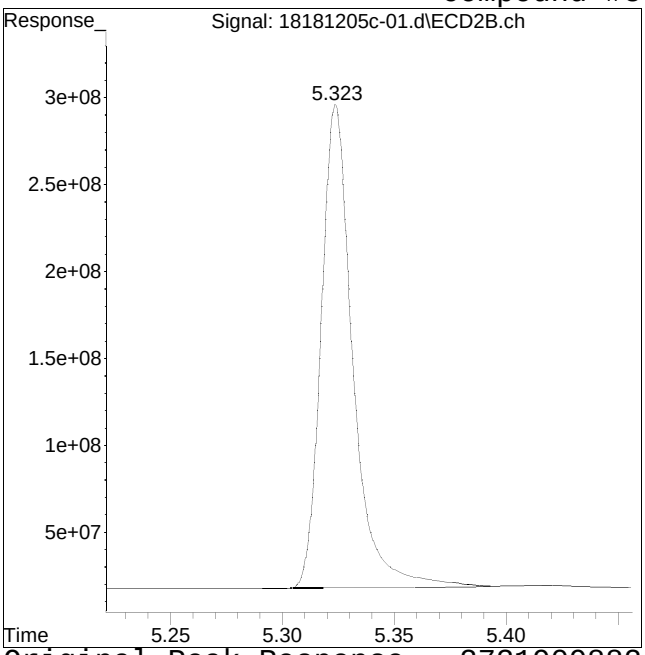


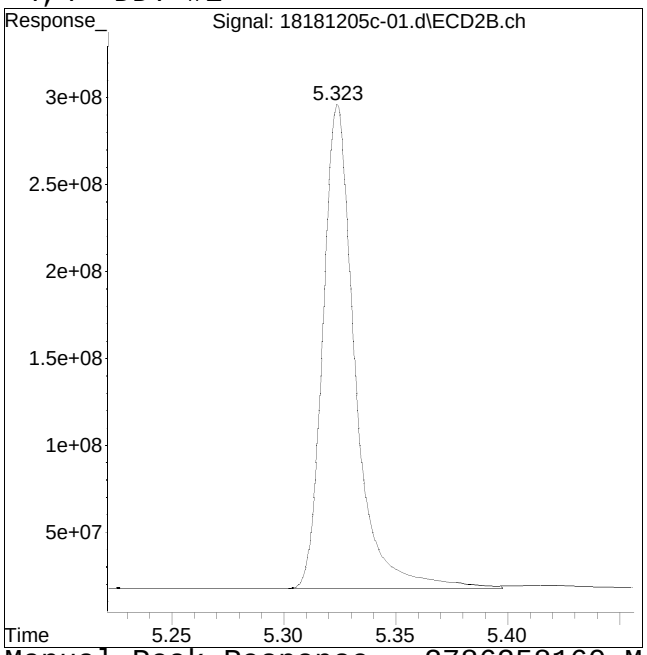
Original Peak Response = 2399685148 Manual Peak Response = 2415847276 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181205c\ QMethod : pest18_09_19_18_15103.m
Data File : 18181205c-01.d Operator : PEST18:sl
Date Inj'd : 12/5/2018 5:44 pm Instrument : Pest 18
Sample : pem1818120501c,42e,,deg ppQuant Date : 12/5/2018 6:47 pm

Compound #59: 4,4'-DDT #2



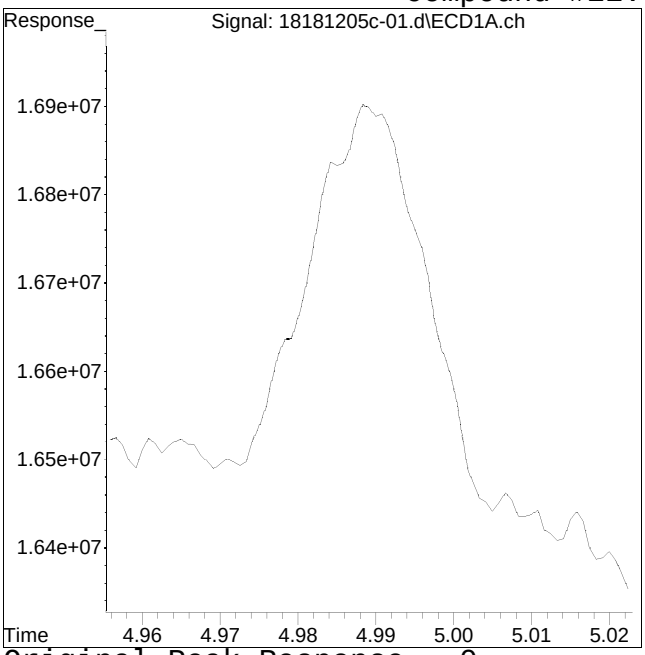


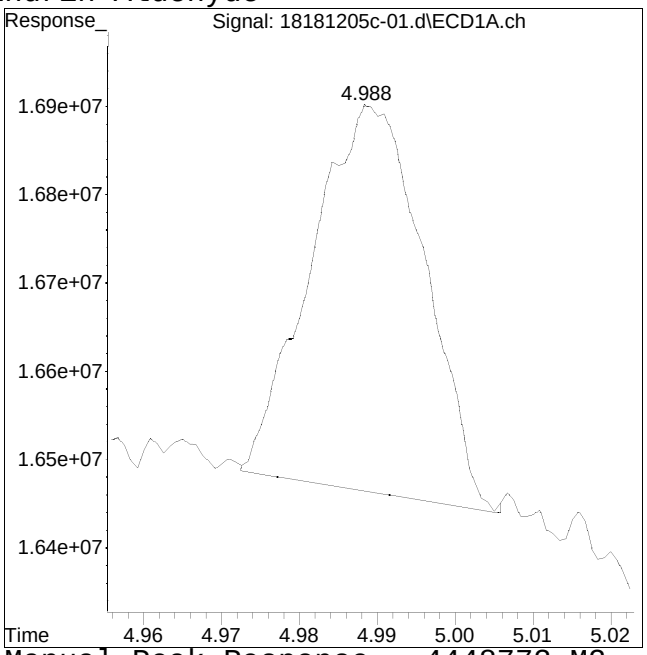
Original Peak Response = 2731909882 Manual Peak Response = 2786258160 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181205c\ QMethod : pest18_09_19_18_15103.m
Data File : 18181205c-01.d Operator : PEST18:sl
Date Inj'd : 12/5/2018 5:44 pm Instrument : Pest 18
Sample : pem1818120501c,42e,,deg ppQuant Date : 12/5/2018 6:47 pm

Compound #22: Endrin Aldehyde



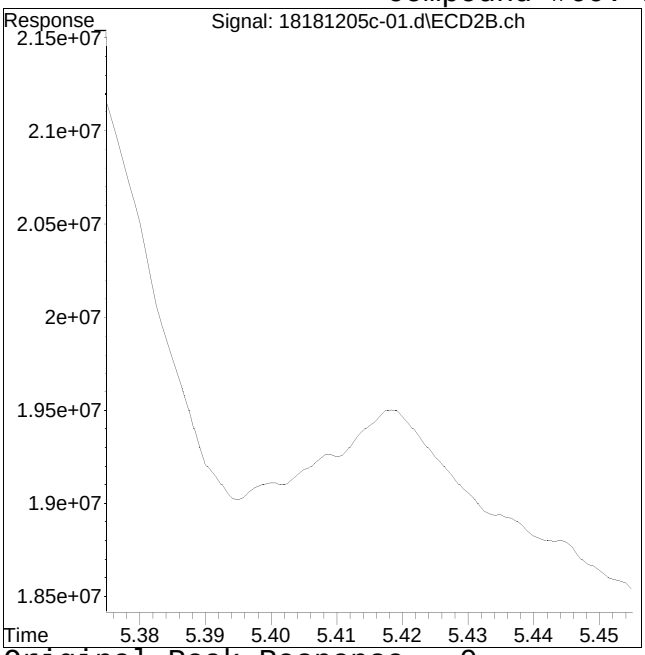


Original Peak Response = 0 Manual Peak Response = 4448773 M2
M2 = Peak not found by automatic integration algorithm.

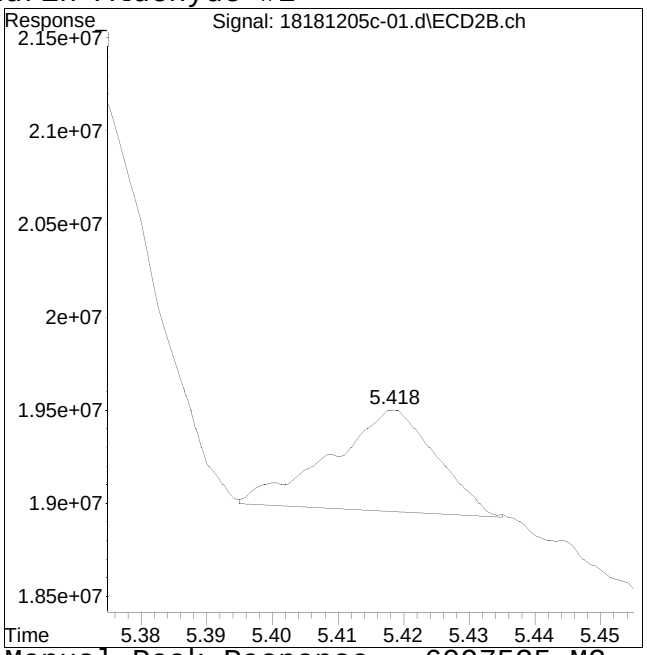
Manual Integration Report

Data Path : I:\Pest18\181205c\ QMethod : pest18_09_19_18_15103.m
Data File : 18181205c-01.d Operator : PEST18:sl
Date Inj'd : 12/5/2018 5:44 pm Instrument : Pest 18
Sample : pem1818120501c,42e,,deg ppQuant Date : 12/5/2018 6:47 pm

Compound #60: Endrin Aldehyde #2



Original Peak Response = 0



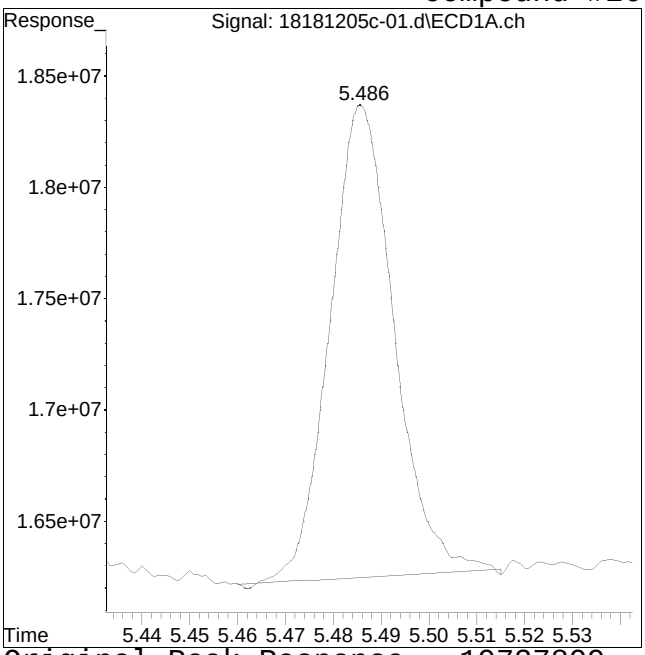
Manual Peak Response = 6097535 M2

M2 = Peak not found by automatic integration algorithm.

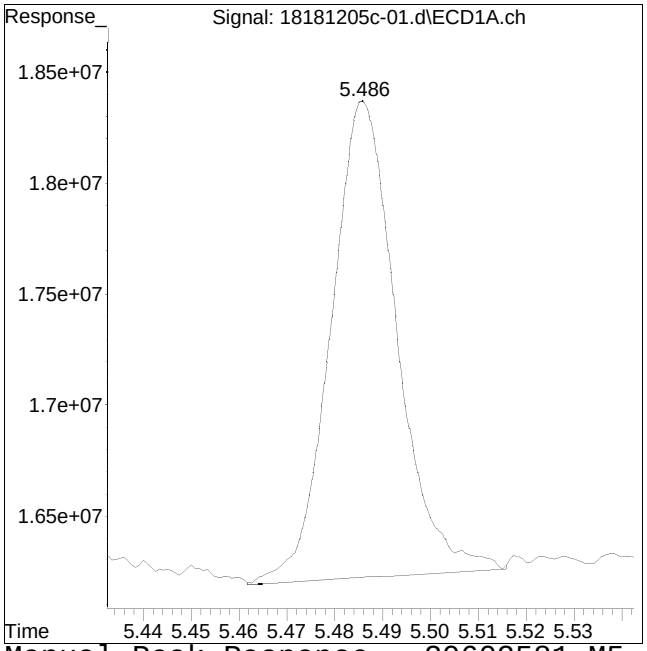
Manual Integration Report

Data Path : I:\Pest18\181205c\ QMethod : pest18_09_19_18_15103.m
Data File : 18181205c-01.d Operator : PEST18:sl
Date Inj'd : 12/5/2018 5:44 pm Instrument : Pest 18
Sample : pem1818120501c,42e,,deg pp Quant Date : 12/5/2018 6:47 pm

Compound #26: Endrin Ketone



Original Peak Response = 19737899



Manual Peak Response = 20602581 M5

M5 = Manual integration over a retention time range required, i.e. for hydrocarbon range methods.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest18\181206A\
Data File : 18181206a-01.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Dec 2018 8:40 am
Operator : PEST18:amc
Sample : pem18181206a01,42ee,,deg pp8910 (Sig #1); deg pp8910 (Sig #2)
Misc : WG1186320,ical15103
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 09:23:10 2018
Quant Method : I:\Pest18\181206A\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Wed Dec 05 18:46:40 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : DEG - DDT/Endrin degradation check

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.740	1.848	614.0E6	670.7E6	25.000M4	25.000M4
	System Monitoring Compounds						
	Target Compounds						
15)	4,4'-DDE	4.122	4.663	7364655	10314028	N.D. M2	0.026M2
18)	Endrin	4.515	5.019	1396.2E6	1473.0E6	46.993M4	46.629M4
19)	4,4'-DDD	4.582	5.097	14144419	15796300	0.201M4	0.266M4
21)	4,4'-DDT	4.791	5.317	2357.1E6	2445.5E6	84.022M4	81.845M4
22)	Endrin Aldeh	4.987	5.414	6014122	6561942	N.D. M2	N.D. M2
26)	Endrin Keton	5.484	5.967	19683468	21232547	0.062M4	0.229M4
D							
	Sum chlordane-1			0	0	N.D.	N.D.
	Average chlordane-1					0.000	0.000
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000
	SemiQuant Compounds - Not Calibrated on this Instrument						
	Sum toxaphene-1			0	0	N.D.	N.D.
	Average toxaphene-1					0.000	0.000

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest18\181206A\
Data File : 18181206a-01.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Dec 2018 8:40 am
Operator : PEST18:amc
Sample : pem18181206a01,42ee,,deg pp8910 (Sig #1); deg pp8910 (Sig #2)
Misc : WG1186320,ical15103
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 09:23:10 2018
Quant Method : I:\Pest18\181206A\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Wed Dec 05 18:46:40 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

Sub List : DEG - DDT/Endrin degradation check

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

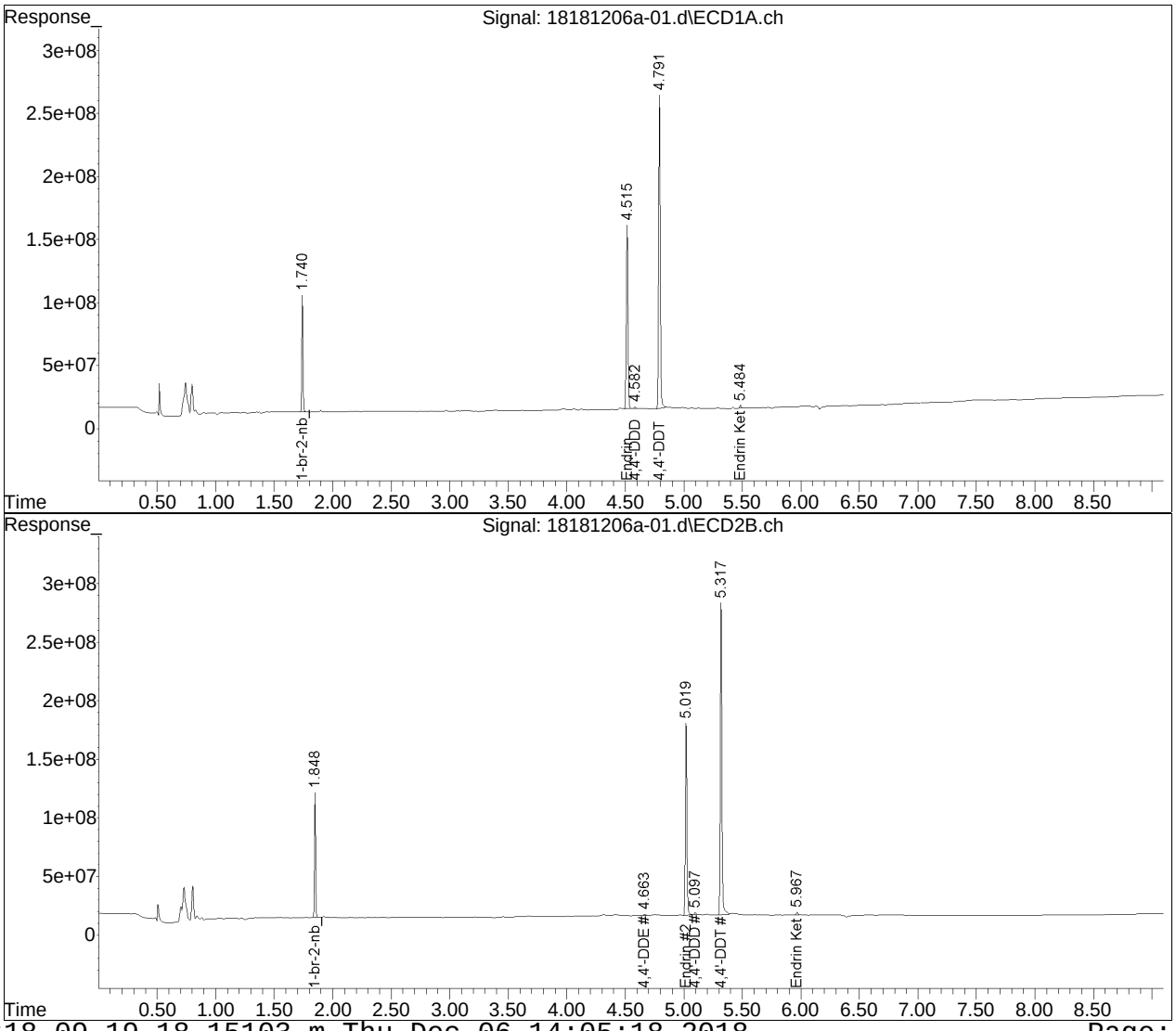
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : DEG - DDT/Endrin degradation checkiewed)

Data Path : I:\Pest18\181206A\
Data File : 18181206a-01.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Dec 2018 8:40 am
Operator : PEST18:amc
Sample : pem18181206a01,42ee,,deg pp8910 (Sig #1); deg pp8910 (Sig #2)
Misc : WG1186320,ical15103
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 09:23:10 2018
Quant Method : I:\Pest18\181206A\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Wed Dec 05 18:46:40 2018
Response via : Initial Calibration
Integrator: ChemStation

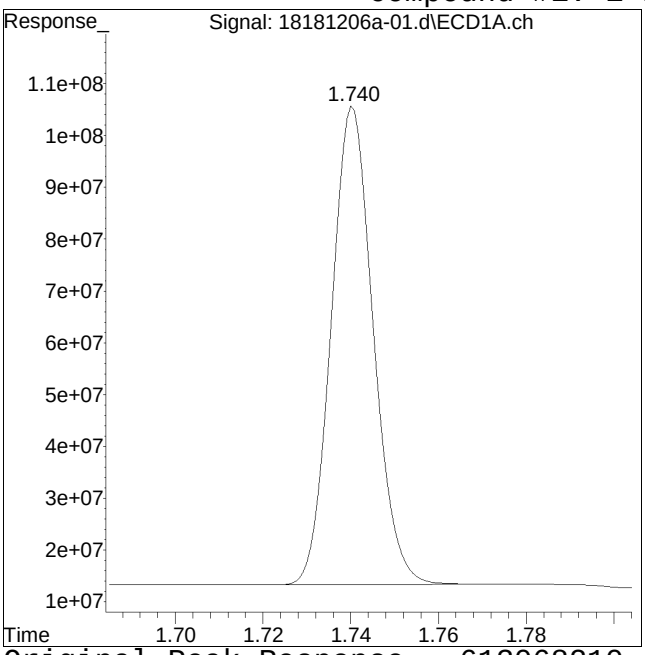
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



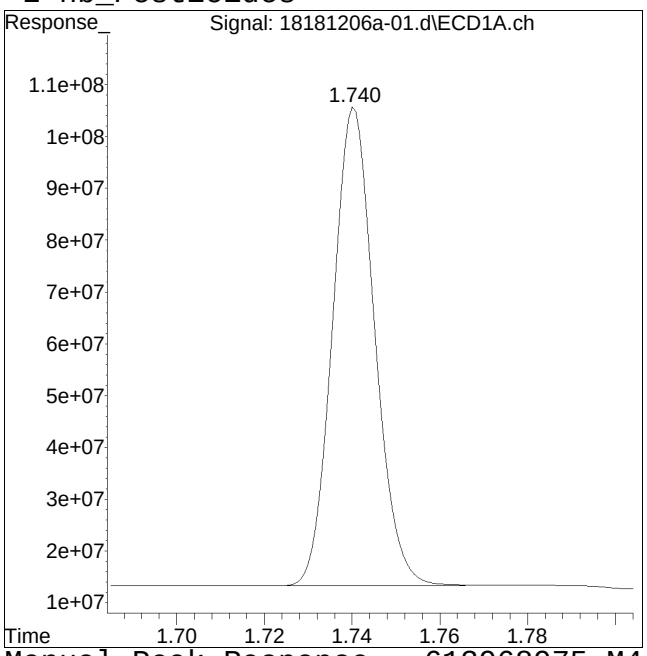
Manual Integration Report

Data Path : I:\Pest18\181206A\ QMethod : pest18_09_19_18_15103.m
Data File : 18181206a-01.d Operator : PEST18:amc
Date Inj'd : 12/6/2018 8:40 am Instrument : Pest 18
Sample : pem18181206a01,42ee,,deg pQuant Date : 12/6/2018 9:20 am

Compound #1: 1-br-2-nb_Pesticides



Original Peak Response = 613068210



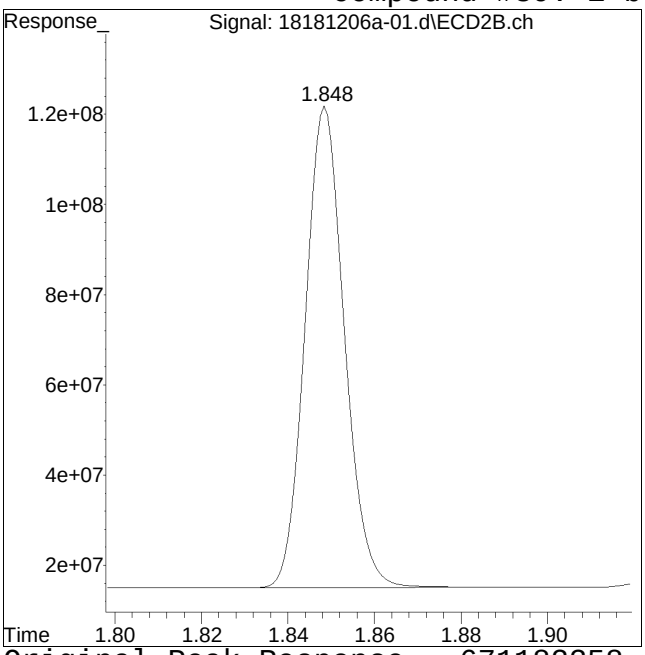
Manual Peak Response = 613968975 M4

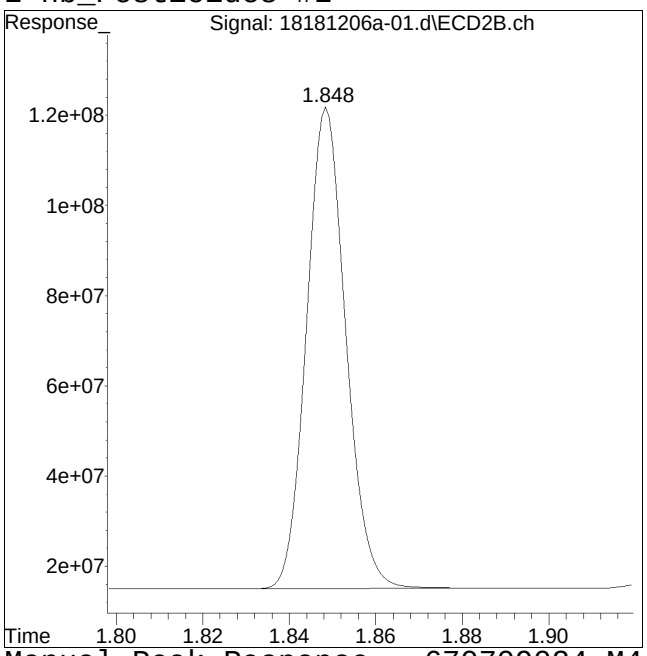
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181206A\ QMethod : pest18_09_19_18_15103.m
Data File : 18181206a-01.d Operator : PEST18:amc
Date Inj'd : 12/6/2018 8:40 am Instrument : Pest 18
Sample : pem18181206a01,42ee,,deg pQuant Date : 12/6/2018 9:20 am

Compound #39: 1-br-2-nb_Pesticides #2



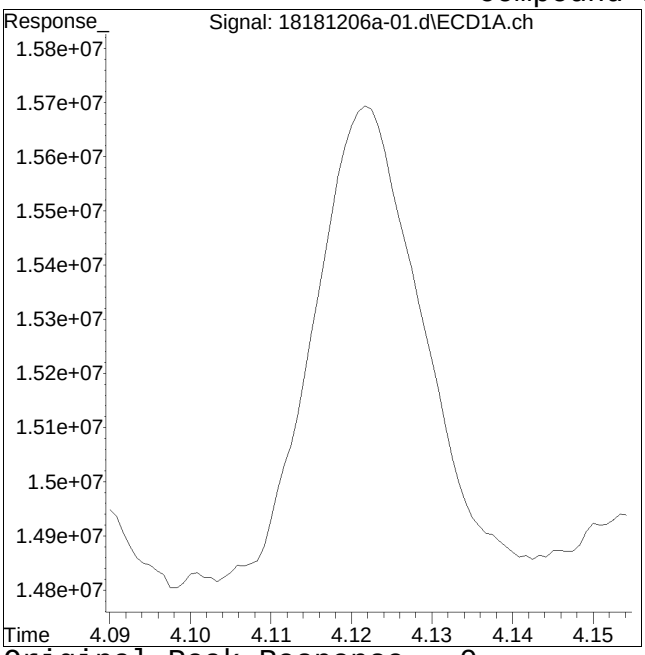


Original Peak Response = 671182358 Manual Peak Response = 670709024 M4
M4 = Poor automated baseline construction.

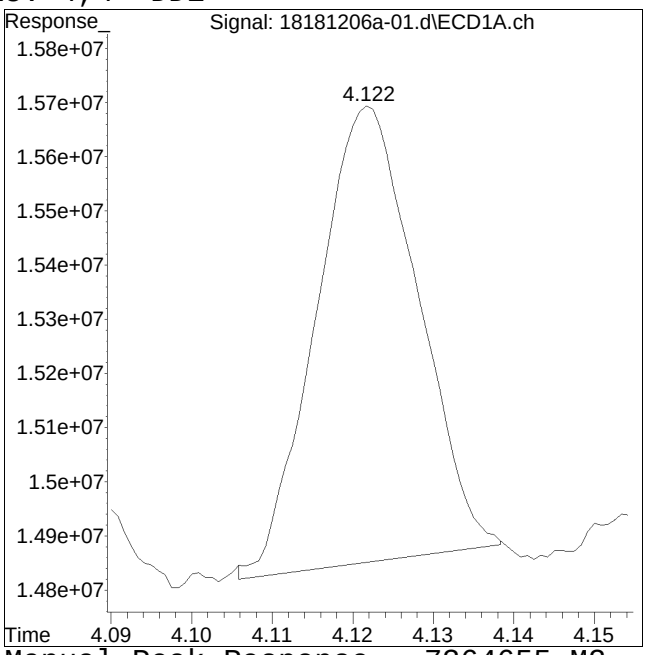
Manual Integration Report

Data Path : I:\Pest18\181206A\ QMethod : pest18_09_19_18_15103.m
Data File : 18181206a-01.d Operator : PEST18:amc
Date Inj'd : 12/6/2018 8:40 am Instrument : Pest 18
Sample : pem18181206a01,42ee,,deg pQuant Date : 12/6/2018 9:20 am

Compound #15: 4,4'-DDE



Original Peak Response = 0



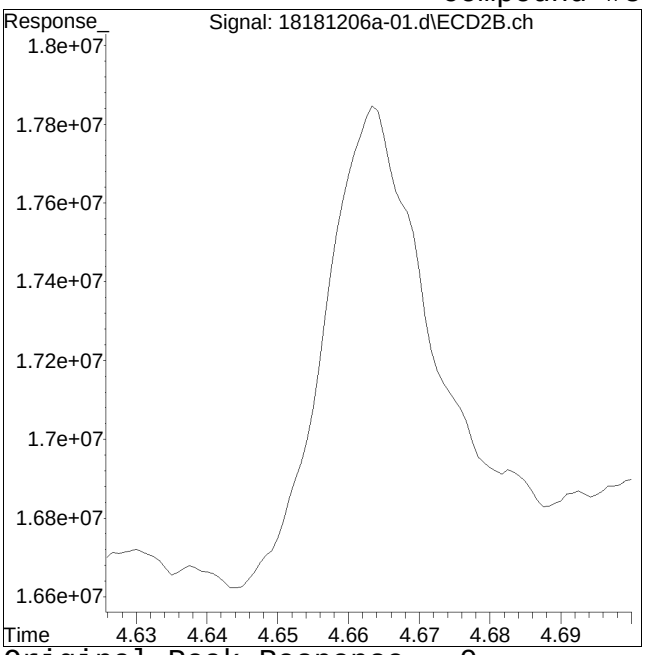
Manual Peak Response = 7364655 M2

M2 = Peak not found by automatic integration algorithm.

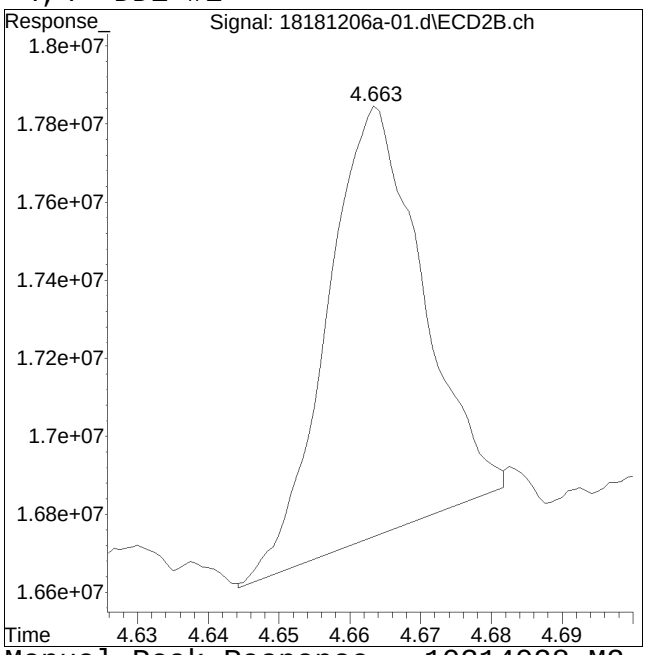
Manual Integration Report

Data Path : I:\Pest18\181206A\ QMethod : pest18_09_19_18_15103.m
Data File : 18181206a-01.d Operator : PEST18:amc
Date Inj'd : 12/6/2018 8:40 am Instrument : Pest 18
Sample : pem18181206a01,42ee,,deg pQuant Date : 12/6/2018 9:20 am

Compound #53: 4,4'-DDE #2



Original Peak Response = 0



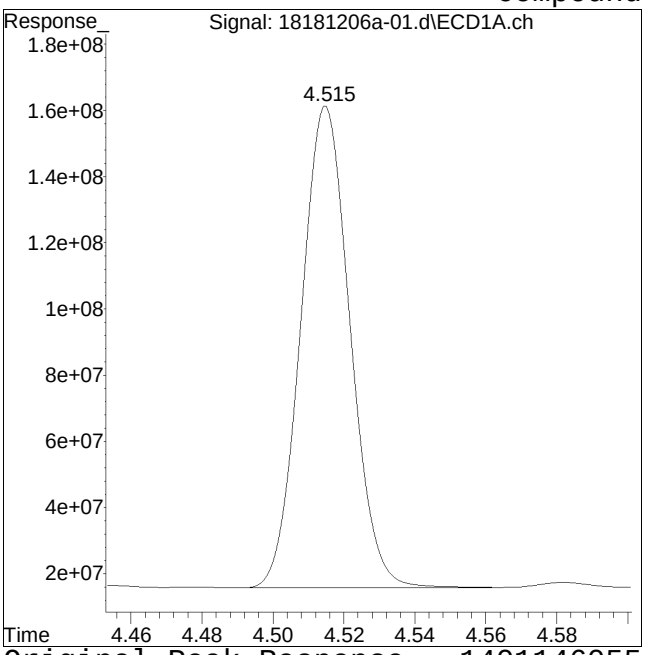
Manual Peak Response = 10314028 M2

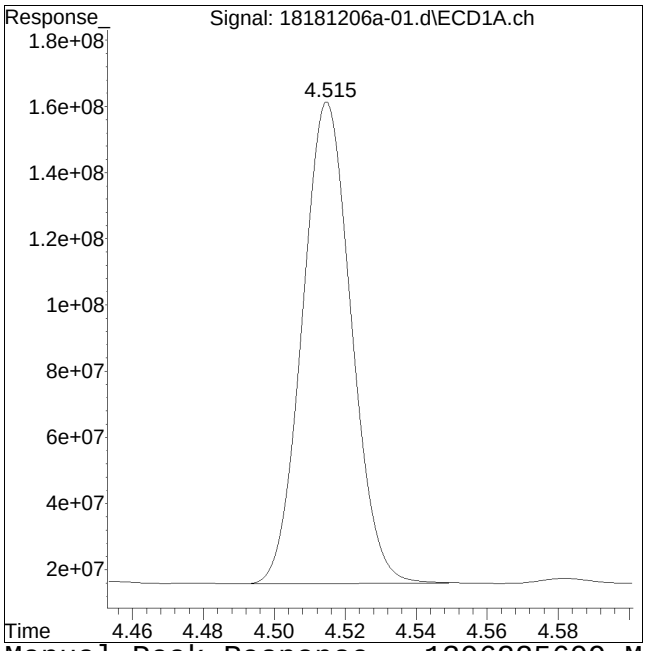
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\Pest18\181206A\ QMethod : pest18_09_19_18_15103.m
Data File : 18181206a-01.d Operator : PEST18:amc
Date Inj'd : 12/6/2018 8:40 am Instrument : Pest 18
Sample : pem18181206a01,42ee,,deg pQuant Date : 12/6/2018 9:20 am

Compound #18: Endrin



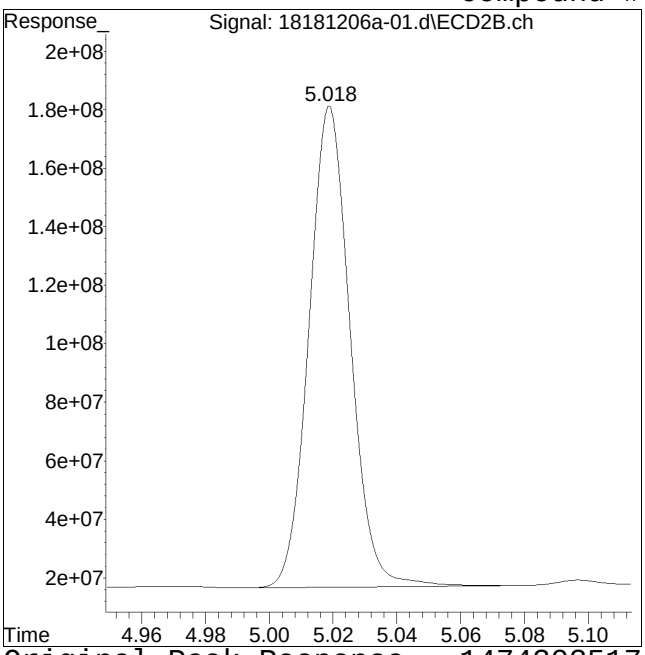


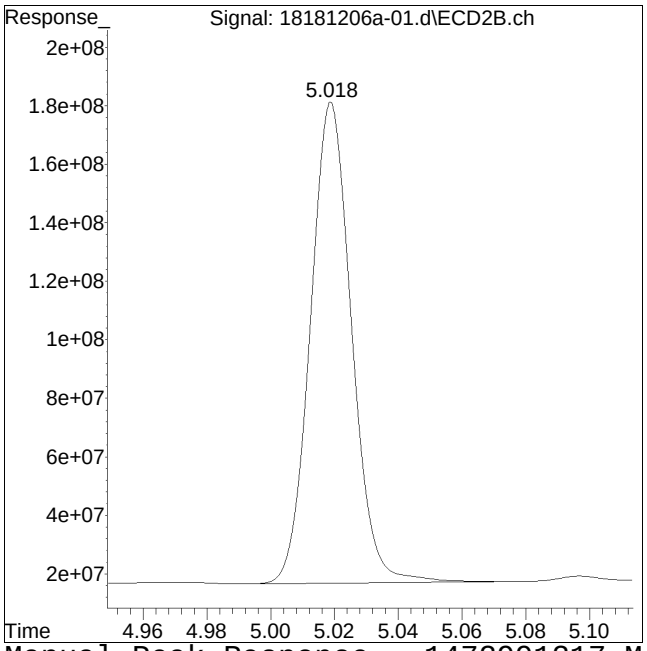
Original Peak Response = 1401146055 Manual Peak Response = 1396225609 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181206A\ QMethod : pest18_09_19_18_15103.m
Data File : 18181206a-01.d Operator : PEST18:amc
Date Inj'd : 12/6/2018 8:40 am Instrument : Pest 18
Sample : pem18181206a01,42ee,,deg pQuant Date : 12/6/2018 9:20 am

Compound #56: Endrin #2



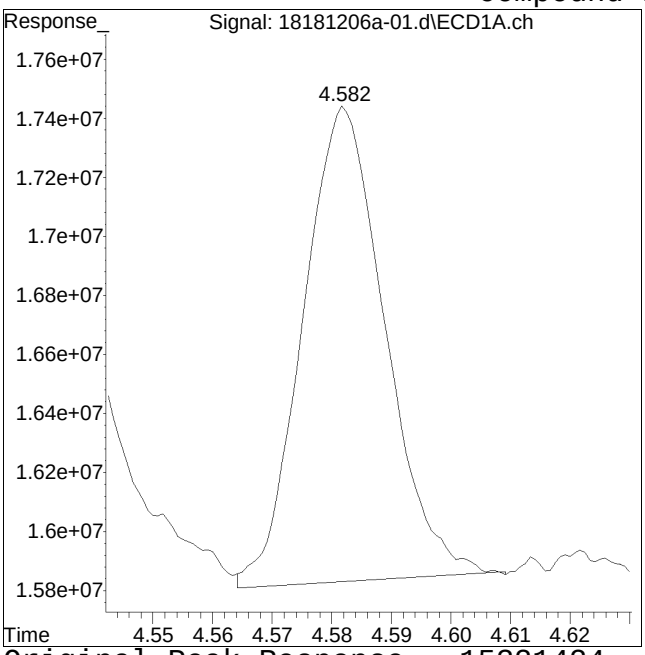


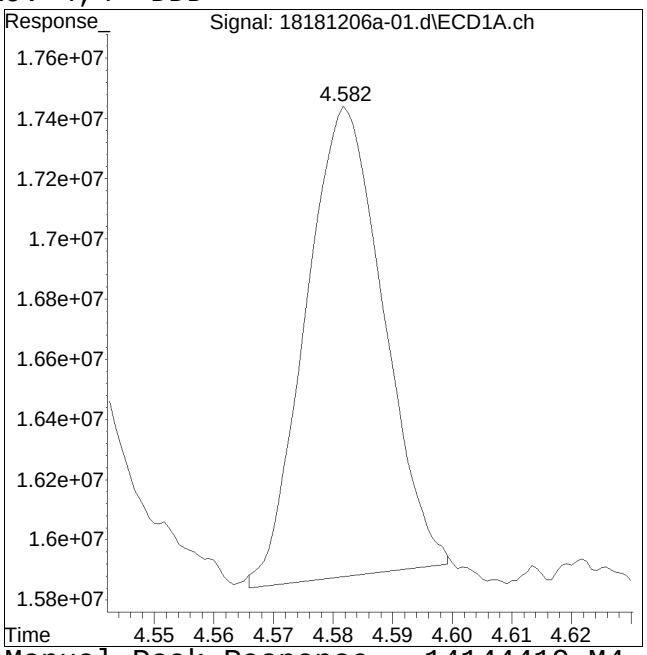
Original Peak Response = 1474303517 Manual Peak Response = 1472991217 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181206A\ QMethod : pest18_09_19_18_15103.m
Data File : 18181206a-01.d Operator : PEST18:amc
Date Inj'd : 12/6/2018 8:40 am Instrument : Pest 18
Sample : pem18181206a01,42ee,,deg pQuant Date : 12/6/2018 9:20 am

Compound #19: 4,4'-DDD



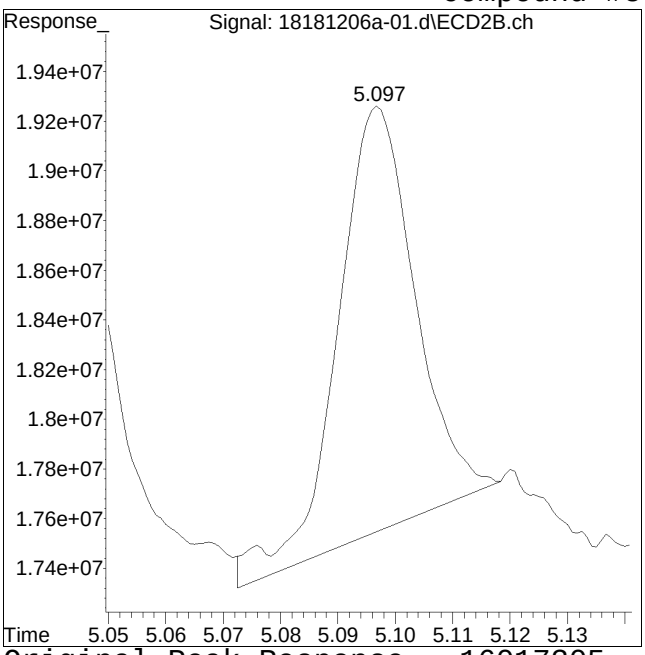


Original Peak Response = 15321424 Manual Peak Response = 14144419 M4
M4 = Poor automated baseline construction.

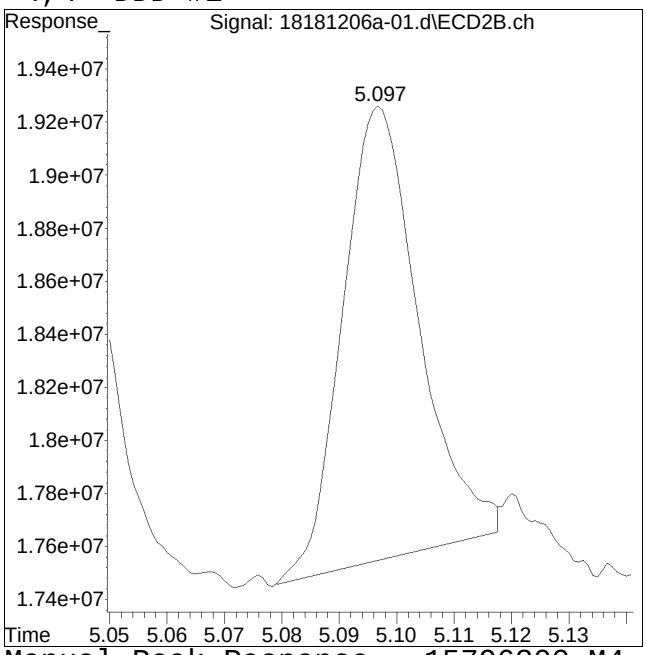
Manual Integration Report

Data Path : I:\Pest18\181206A\ QMethod : pest18_09_19_18_15103.m
Data File : 18181206a-01.d Operator : PEST18:amc
Date Inj'd : 12/6/2018 8:40 am Instrument : Pest 18
Sample : pem18181206a01,42ee,,deg pQuant Date : 12/6/2018 9:20 am

Compound #57: 4,4'-DDD #2



Original Peak Response = 16017305



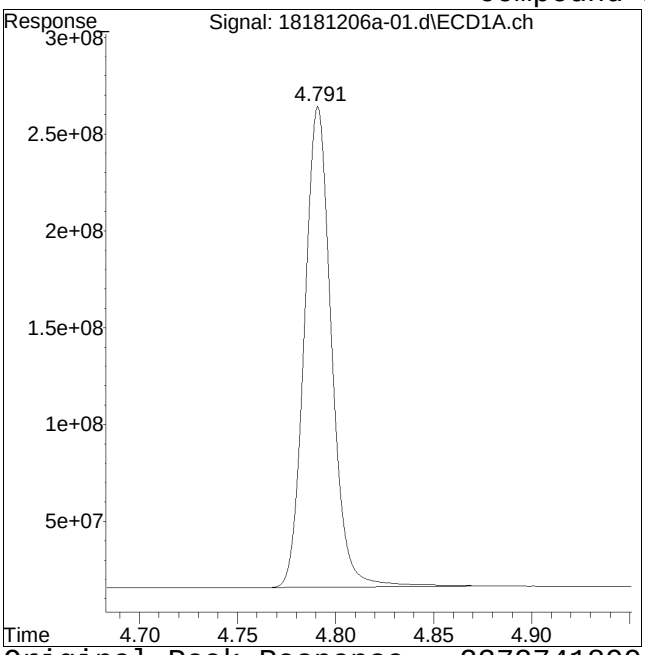
Manual Peak Response = 15796300 M4

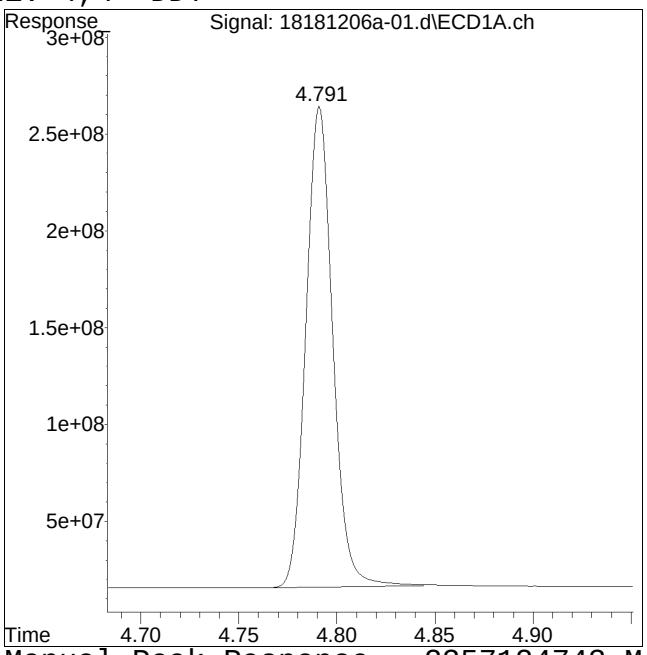
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181206A\ QMethod : pest18_09_19_18_15103.m
Data File : 18181206a-01.d Operator : PEST18:amc
Date Inj'd : 12/6/2018 8:40 am Instrument : Pest 18
Sample : pem18181206a01,42ee,,deg pQuant Date : 12/6/2018 9:20 am

Compound #21: 4,4'-DDT



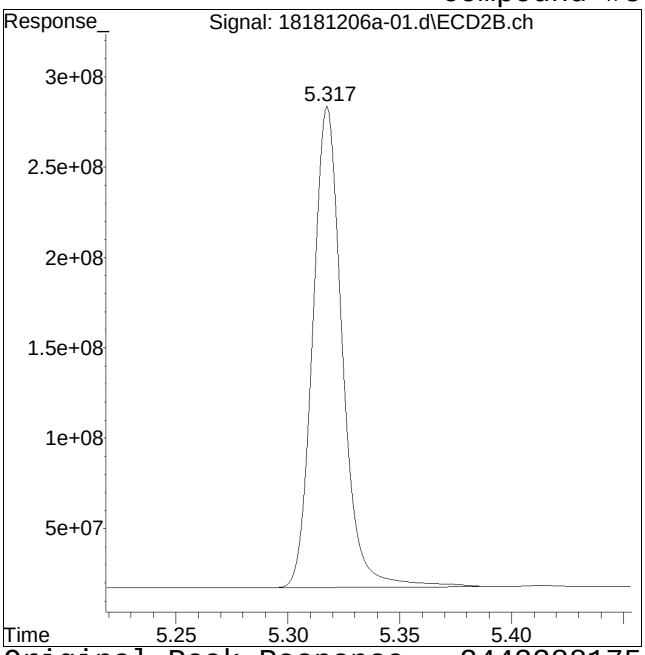


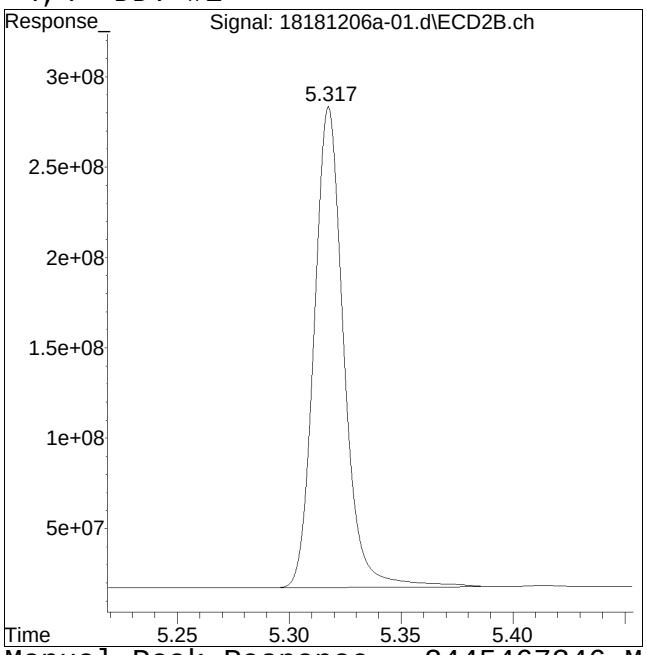
Original Peak Response = 2372741899 Manual Peak Response = 2357124743 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : I:\Pest18\181206A\ QMethod : pest18_09_19_18_15103.m
Data File : 18181206a-01.d Operator : PEST18:amc
Date Inj'd : 12/6/2018 8:40 am Instrument : Pest 18
Sample : pem18181206a01,42ee,,deg pQuant Date : 12/6/2018 9:20 am

Compound #59: 4,4'-DDT #2



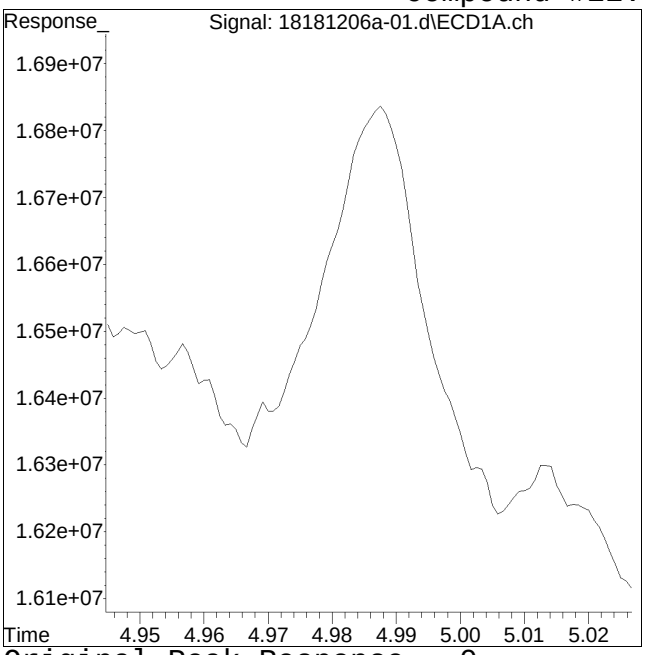


Original Peak Response = 2443388175 Manual Peak Response = 2445467346 M4
M4 = Poor automated baseline construction.

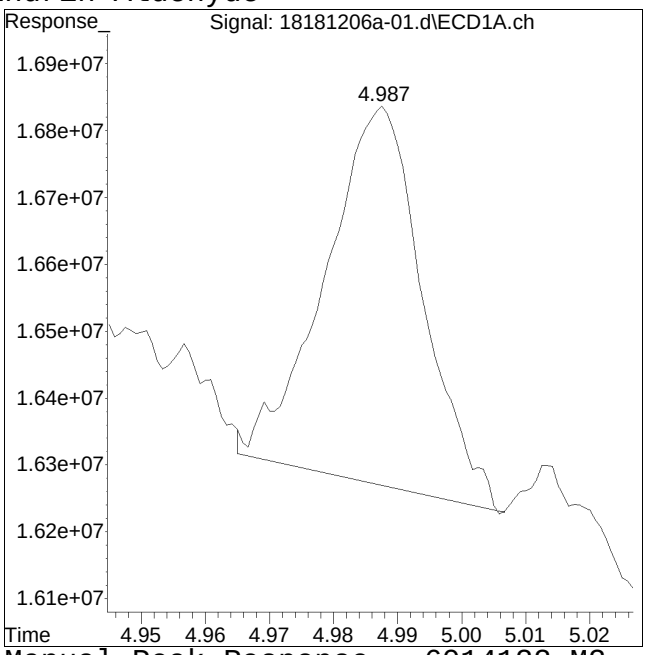
Manual Integration Report

Data Path : I:\Pest18\181206A\ QMethod : pest18_09_19_18_15103.m
Data File : 18181206a-01.d Operator : PEST18:amc
Date Inj'd : 12/6/2018 8:40 am Instrument : Pest 18
Sample : pem18181206a01,42ee,,deg pQuant Date : 12/6/2018 9:20 am

Compound #22: Endrin Aldehyde



Original Peak Response = 0



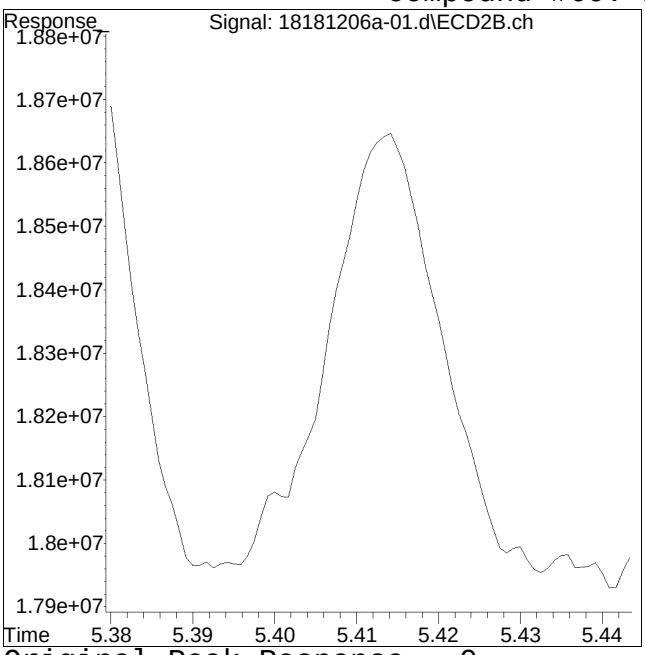
Manual Peak Response = 6014122 M2

M2 = Peak not found by automatic integration algorithm.

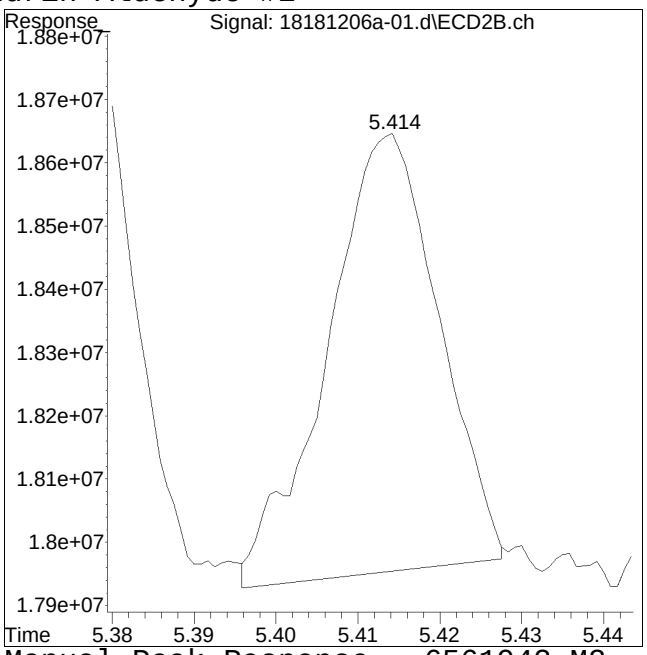
Manual Integration Report

Data Path : I:\Pest18\181206A\ QMethod : pest18_09_19_18_15103.m
Data File : 18181206a-01.d Operator : PEST18:amc
Date Inj'd : 12/6/2018 8:40 am Instrument : Pest 18
Sample : pem18181206a01,42ee,,deg pQuant Date : 12/6/2018 9:20 am

Compound #60: Endrin Aldehyde #2



Original Peak Response = 0



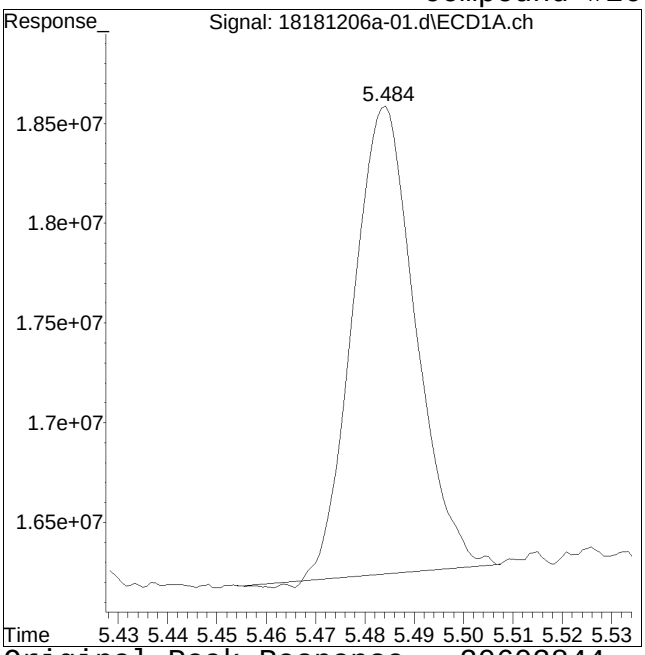
Manual Peak Response = 6561942 M2

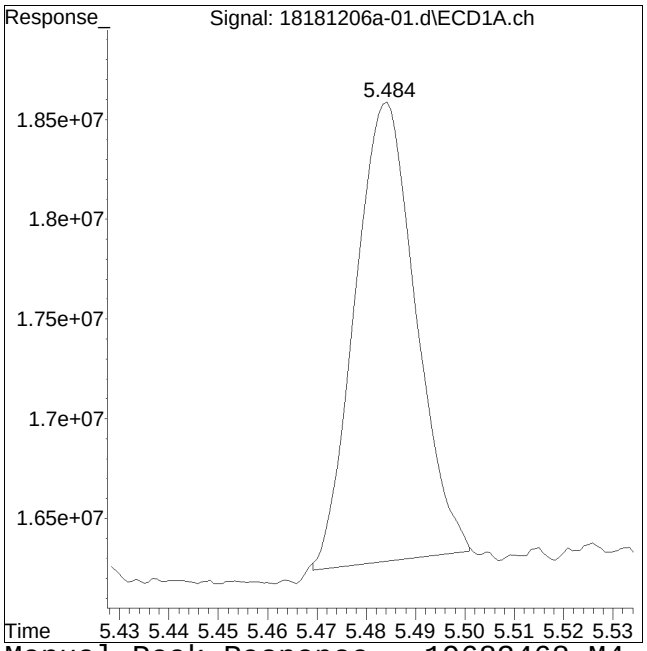
M2 = Peak not found by automatic integration algorithm.

Manual Integration Report

Data Path : I:\Pest18\181206A\ QMethod : pest18_09_19_18_15103.m
Data File : 18181206a-01.d Operator : PEST18:amc
Date Inj'd : 12/6/2018 8:40 am Instrument : Pest 18
Sample : pem18181206a01,42ee,,deg pQuant Date : 12/6/2018 9:20 am

Compound #26: Endrin Ketone



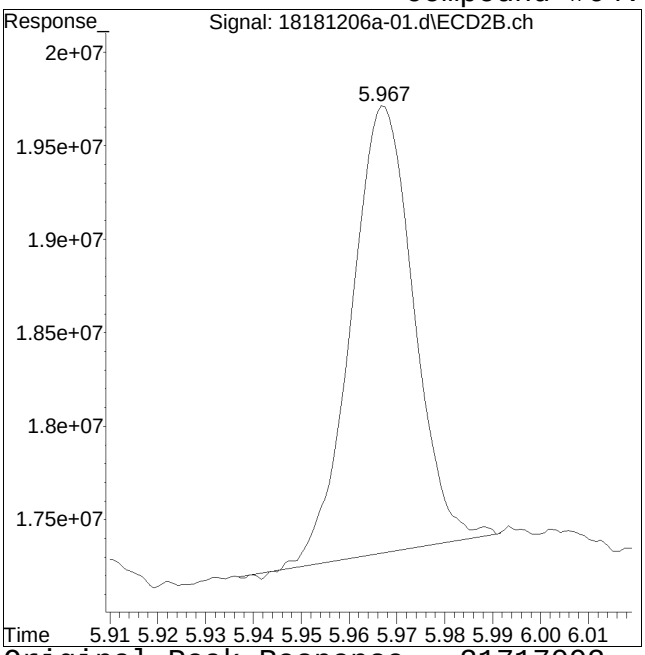


Original Peak Response = 20603844 Manual Peak Response = 19683468 M4
M4 = Poor automated baseline construction.

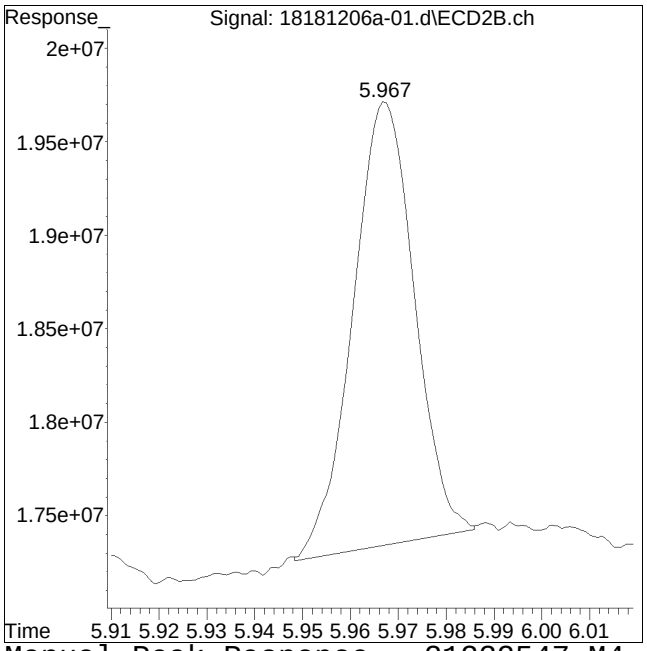
Manual Integration Report

Data Path : I:\Pest18\181206A\ QMethod : pest18_09_19_18_15103.m
Data File : 18181206a-01.d Operator : PEST18:amc
Date Inj'd : 12/6/2018 8:40 am Instrument : Pest 18
Sample : pem18181206a01,42ee,,deg pQuant Date : 12/6/2018 9:20 am

Compound #64: Endrin Ketone #2



Original Peak Response = 21717092



Manual Peak Response = 21232547 M4

M4 = Poor automated baseline construction.

RT Shift Summary

GC Organics Indentification Summary
Form 10
Single Component Analytes

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Lab Sample ID	: L1849060-02		
Client ID	: CB-02		
Date Analyzed (1)	: 12/06/18 10:33	**Date Analyzed (2)**	: 12/06/18 10:33
Instrument ID (1)	: PEST18	**Instrument ID (2)**	: PEST18
GC Column (1)	: CLPPesticides	**GC Column (2)**	: CLPPesticidesII

			RT Window			
Analyte	**Col**	**RT**	**From**	**To**	**Concentraion**	**RPD**
Endrin	1	4.52	4.46	4.56	30	
	2	5.02	4.97	5.07	48.3	47

GC Organics Indentification Summary
Form 10
Single Component Analytes

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Lab Sample ID	: L1849060-03		
Client ID	: CB-03		
Date Analyzed (1)	: 12/06/18 02:39	**Date Analyzed (2)**	: 12/06/18 02:39
Instrument ID (1)	: PEST18	**Instrument ID (2)**	: PEST18
GC Column (1)	: CLPPesticides	**GC Column (2)**	: CLPPesticidesII

			RT Window			
Analyte	**Col**	**RT**	**From**	**To**	**Concentraion**	**RPD**
Endrin	1	4.52	4.47	4.57	16.3	
	2	5.02	4.98	5.08	13.	22

GC Organics Indentification Summary
Form 10
Single Component Analytes

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Lab Sample ID	: L1849060-04		
Client ID	: CB-04		
Date Analyzed (1)	: 12/06/18 10:46	**Date Analyzed (2)**	: 12/06/18 10:46
Instrument ID (1)	: PEST18	**Instrument ID (2)**	: PEST18
GC Column (1)	: CLPPesticides	**GC Column (2)**	: CLPPesticidesII

			RT Window			
Analyte	**Col**	**RT**	**From**	**To**	**Concentraion**	**RPD**
Endrin	1	4.52	4.46	4.56	6.55	
	2	5.02	4.97	5.07	3.15	70

GC Organics Indentification Summary
Form 10
Single Component Analytes

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Lab Sample ID	: L1849060-05		
Client ID	: CB-01		
Date Analyzed (1)	: 12/06/18 10:59	**Date Analyzed (2)**	: 12/06/18 10:59
Instrument ID (1)	: PEST18	**Instrument ID (2)**	: PEST18
GC Column (1)	: CLPPesticides	**GC Column (2)**	: CLPPesticidesII

			RT Window			
Analyte	**Col**	**RT**	**From**	**To**	**Concentraion**	**RPD**
Endrin	1	4.51	4.46	4.56	37.2	
	2	5.02	4.97	5.07	51.6	32

GC Organics Indentification Summary
Form 10
Single Component Analytes

Client		: CHA Companies	**Lab Number**		: L1849060
Project Name		: 700 SMITH BLVD	**Project Number**		: 29852.1202.44000
Lab Sample ID		: L1849060-06			
Client ID		: DUP-18			
Date Analyzed	(1)	: 12/06/18 11:11	**Date Analyzed**	(2)	: 12/06/18 11:11
Instrument ID	(1)	: PEST18	**Instrument ID**	(2)	: PEST18
GC Column	(1)	: CLPPesticides	**GC Column**	(2)	: CLPPesticidesII

Analyte	Col	RT	RT Window From	RT Window To	Concentraion	RPD
Endrin	1	4.51	4.46	4.56	16.9	
	2	5.02	4.97	5.07	14.6	15
Methoxychlor	1	5.15	5.10	5.20	26.4	
	2	5.79	5.74	5.84	28.9	9

Pesticides Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : I:\Pest18\181205c\
Data File : 18181205c-33.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Dec 2018 1:36 am
Operator : PEST18:sl
Sample : wg1184846-1,42e,,
Misc : wg1186046,wg1184846,Ical15103
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 22:59:28 2018
Quant Method : I:\Pest18\181205c\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Thu Dec 06 22:36:19 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest18\181205c\18181205c-25.d
Sub List : Default - All compounds listed

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.743	1.855	702.3E6	788.2E6	25.000M4	25.000
	Standard Area 1 : #1 = 778709891				Recovery =	90.19%	
	Standard Area 1 : #2 = 854695285				Recovery =	92.22%	
28) i	1-br-2-nb_Ch	1.743	1.855	702.3E6	788.2E6	25.000M4	25.000
33) i	1-br-2-nb_To	1.743	1.855	702.3E6	788.2E6	25.000M4	25.000
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.211	2.436	1226.3E6	1406.8E6	44.555	45.365M4
	Spiked Amount 50.000	Range 30 - 150			Recovery =	89.11%	90.73%
27) s	Decachlorobi	6.175	6.760	743.0E6	1040.6E6	29.636M4	41.964M4
	Spiked Amount 50.000	Range 30 - 150			Recovery =	59.27%	83.93%
	Target Compounds						
4)	alpha-BHC	0.000	0.000	0	0	N.D. d	N.D. d
6)	beta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
7)	delta-BHC	0.000	0.000	0	0	N.D. d	N.D. d
8)	Heptachlor	0.000	0.000	0	0	N.D. d	N.D. d
9)	Aldrin	0.000	0.000	0	0	N.D. d	N.D. d
15)	4,4'-DDE	0.000	0.000	0	0	N.D. d	N.D. d
16)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
17)	Dieldrin	0.000	0.000	0	0	N.D. d	N.D. d
18)	Endrin	0.000	0.000	0	0	N.D. d	N.D. d
19)	4,4'-DDD	0.000	0.000	0	0	N.D. d	N.D. d
20)	Endosulfan I	0.000	0.000	0	0	N.D. d	N.D. d
21)	4,4'-DDT	0.000	0.000	0	0	N.D. d	N.D. d
23)	Methoxychlor	0.000	0.000	0	0	N.D. d	N.D. d

SemiQuant Compounds - Not Calibrated on this Instrument

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest18\181205c\
Data File : 18181205c-33.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Dec 2018 1:36 am
Operator : PEST18:sl
Sample : wg1184846-1,42e,,
Misc : wg1186046,wg1184846,Ical15103
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 22:59:28 2018
Quant Method : I:\Pest18\181205c\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Thu Dec 06 22:36:19 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest18\181205c\18181205c-25.d
Sub List : Default - All compounds listed

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

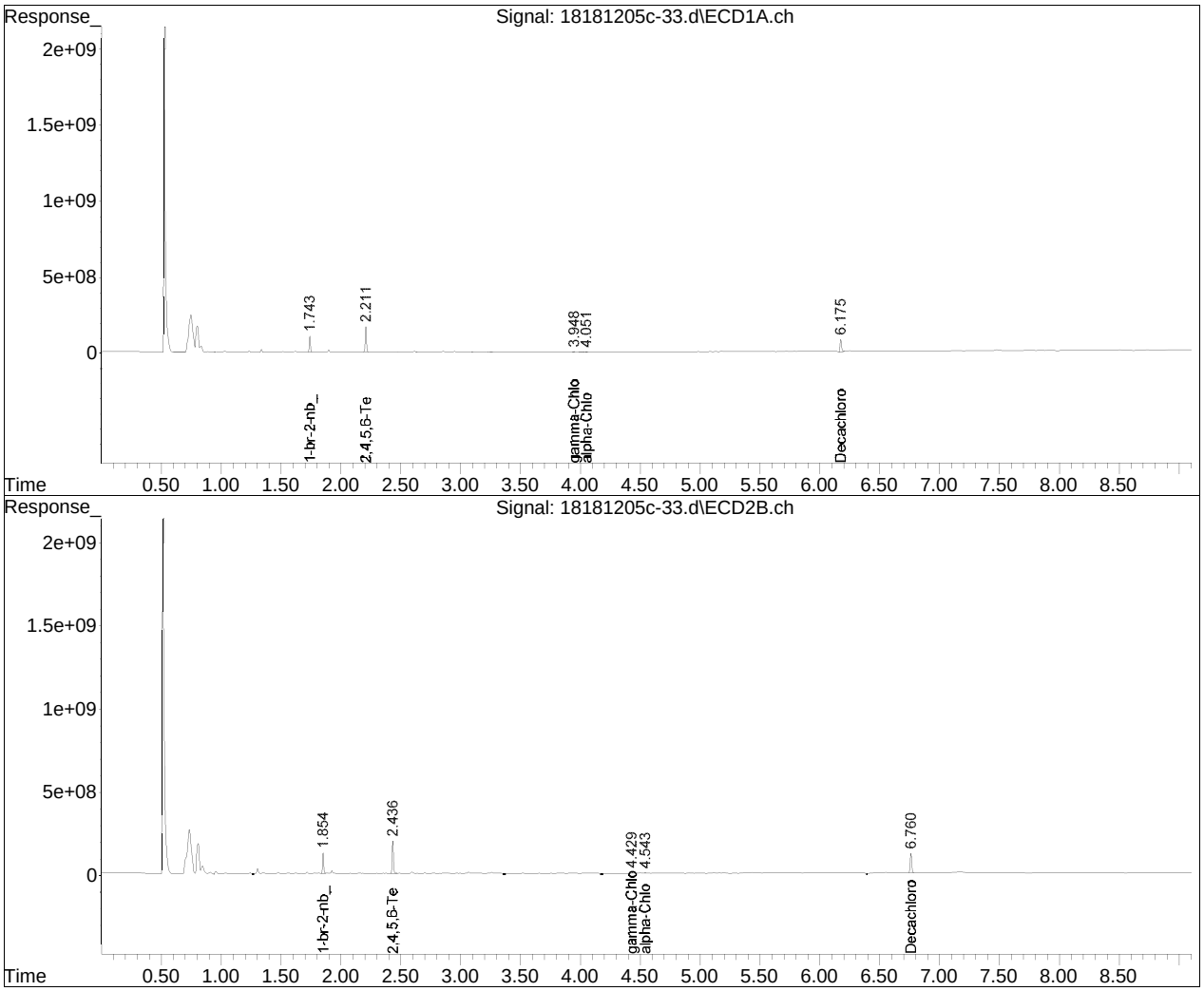
(#)=Recovery Exceeds Compound Acceptance Limits.

Sub List : Default - All compounds listedc-25.d••d)

Data Path : I:\Pest18\181205c\
Data File : 18181205c-33.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Dec 2018 1:36 am
Operator : PEST18:sl
Sample : wg1184846-1,42e,,
Misc : wg1186046,wg1184846,Ical15103
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 22:59:28 2018
Quant Method : I:\Pest18\181205c\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Thu Dec 06 22:36:19 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

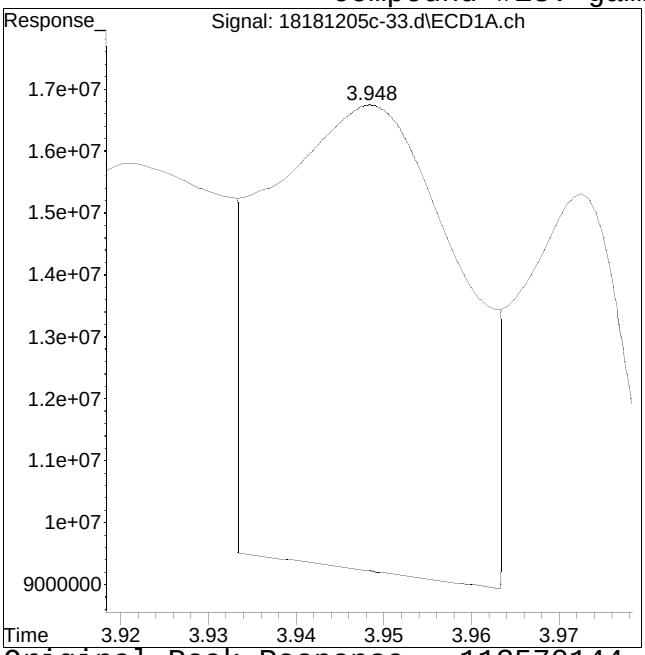


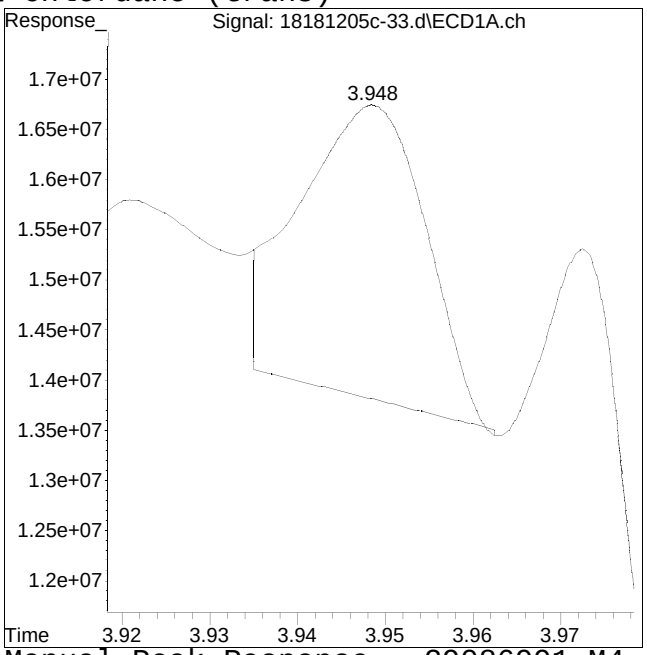
Manual Integration Report

Data Path : I:\Pest18\181205c\
Data File : 18181205c-33.d
Date Inj'd : 12/6/2018 1:36 am
Sample : wg1184846-1,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:sl
Instrument : Pest 18
Quant Date : 12/6/2018 10:37 pm

Compound #13: gamma-Chlordane (trans)





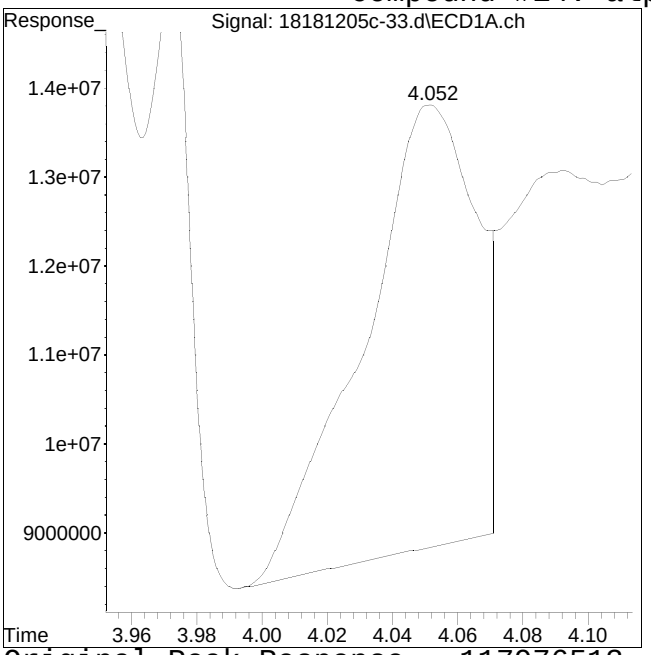
Original Peak Response = 113570144 Manual Peak Response = 29086991 M4
M4 = Poor automated baseline construction.

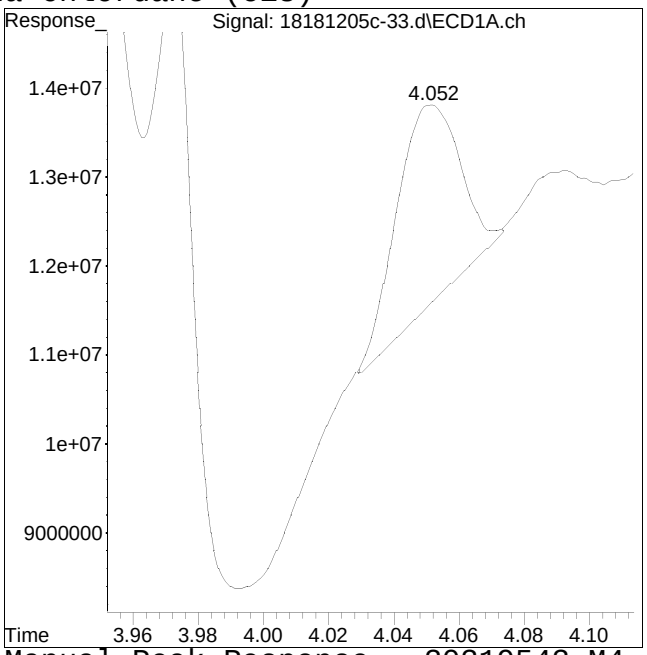
Manual Integration Report

Data Path : I:\Pest18\181205c\
Data File : 18181205c-33.d
Date Inj'd : 12/6/2018 1:36 am
Sample : wg1184846-1,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:sl
Instrument : Pest 18
Quant Date : 12/6/2018 10:37 pm

Compound #14: alpha-Chlordane (cis)





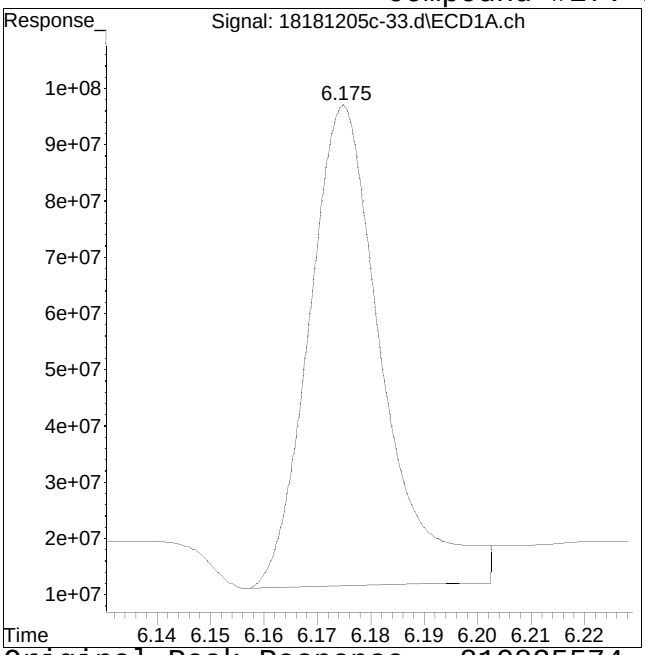
Original Peak Response = 117976513 Manual Peak Response = 30319543 M4
M4 = Poor automated baseline construction.

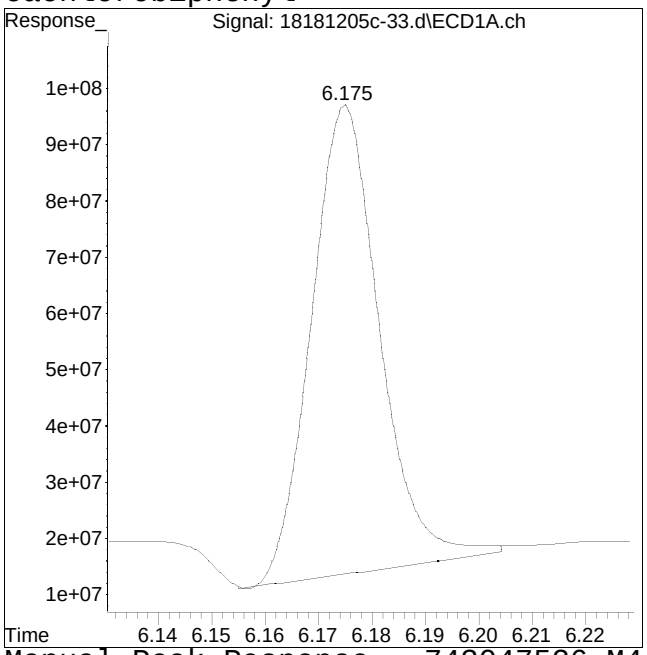
Manual Integration Report

Data Path : I:\Pest18\181205c\
Data File : 18181205c-33.d
Date Inj'd : 12/6/2018 1:36 am
Sample : wg1184846-1,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:sl
Instrument : Pest 18
Quant Date : 12/6/2018 10:37 pm

Compound #27: Decachlorobiphenyl





Original Peak Response = 810825574 Manual Peak Response = 743047526 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest18\181205c\
Data File : 18181205c-34.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Dec 2018 1:49 am
Operator : PEST18:sl
Sample : wg1184846-2,42e,,
Misc : wg1186046,wg1184846,Ical15103
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 23:04:52 2018
Quant Method : I:\Pest18\181205c\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Thu Dec 06 22:36:19 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest18\181205c\18181205c-25.d
Sub List : 1_LCS_MS_pest - pest spk

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.743	1.854	685.5E6	771.0E6	25.000M4	25.000M4
	Standard Area 1 : #1 = 778709891				Recovery =	88.03%	
	Standard Area 1 : #2 = 854695285				Recovery =	90.21%	
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.210	2.436	1287.7E6	1495.1E6	47.976M4	49.336
	Spiked Amount 50.000	Range 30 - 150		Recovery =		95.95%	98.67%
27) s	Decachlorobi	6.176	6.767	1018.6E6	1134.9E6	41.874M4	46.865M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =		83.75%	93.73%
	Target Compounds						
4)	alpha-BHC	2.569	2.877	2201.9E6	2387.1E6	50.682M4	47.940M4
6)	beta-BHC	2.846	3.223	902.6E6	1010.6E6	52.650M4	49.701M4
7)	delta-BHC	2.974	3.467	2015.8E6	1844.4E6	50.106M4	39.644M4
8)	Heptachlor	3.132	3.516	2200.6E6	1966.7E6	59.421	45.546M4
9)	Aldrin	3.361	3.797	1660.7E6	1927.0E6	49.117	49.333
15)	4,4'-DDE	4.126	4.670	1454.7E6	1783.6E6	45.016M4	47.923M4
16)	Endosulfan I	4.159	4.590	1513.9E6	1632.8E6	49.634	47.100M4
17)	Dieldrin	4.347	4.799	1897.1E6	1928.6E6	57.989	52.441M4
18)	Endrin	4.520	5.027	1828.3E6	1900.7E6	55.194M4	52.400M4
19)	4,4'-DDD	4.586	5.102	1493.6E6	1560.9E6	52.158M4	48.102M4
20)	Endosulfan I	4.689	5.182	1596.7E6	1616.0E6	53.995M4	48.890M4
21)	4,4'-DDT	4.796	5.325	1693.2E6	1509.4E6	53.915	43.748M4
23)	Methoxychlor	5.159	5.794	838.5E6	822.0E6	53.851M4	48.736M4
	SemiQuant Compounds - Not Calibrated on this Instrument						

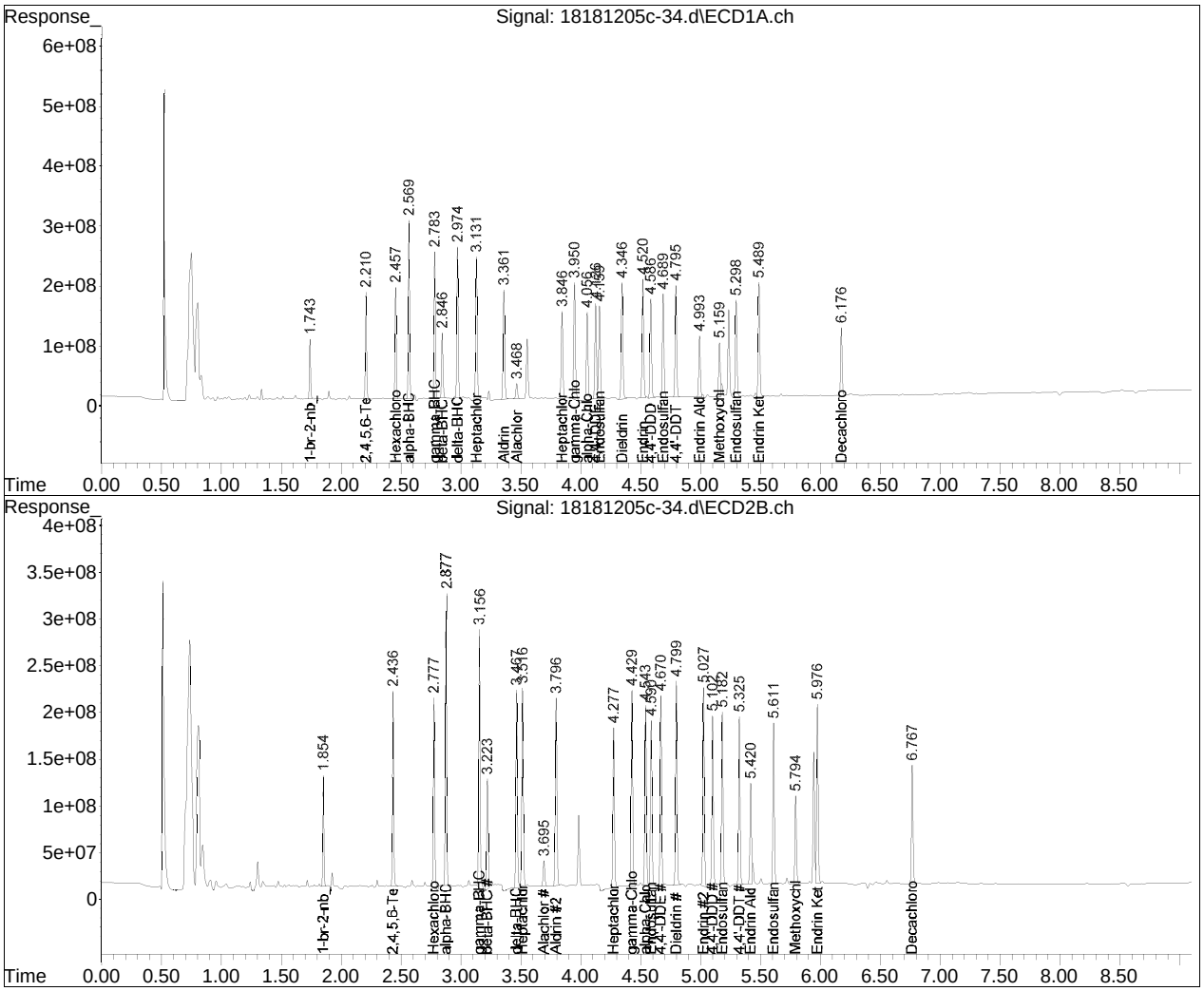
(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.

Sub List : 1_LCS_MS_pest - pest spk181205c-25.d••d)

Data Path : I:\Pest18\181205c\
Data File : 18181205c-34.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Dec 2018 1:49 am
Operator : PEST18:sl
Sample : wg1184846-2,42e,,
Misc : wg1186046,wg1184846,Ical15103
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 23:04:52 2018
Quant Method : I:\Pest18\181205c\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Thu Dec 06 22:36:19 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

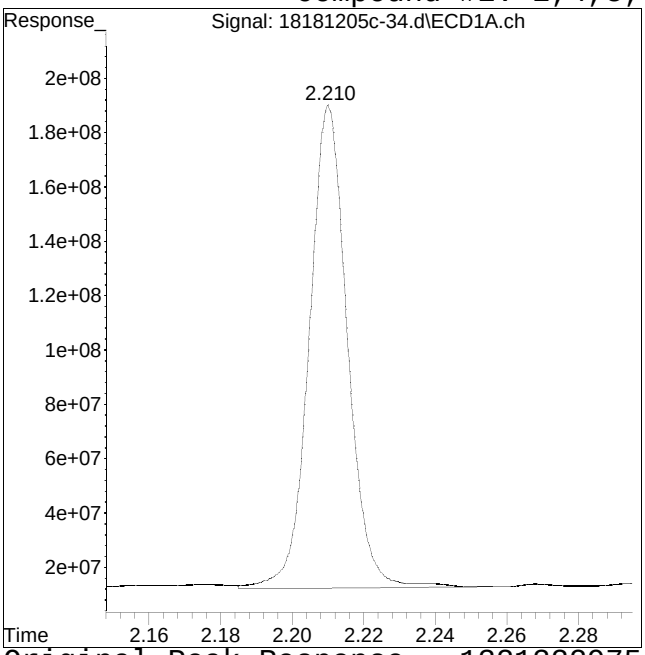


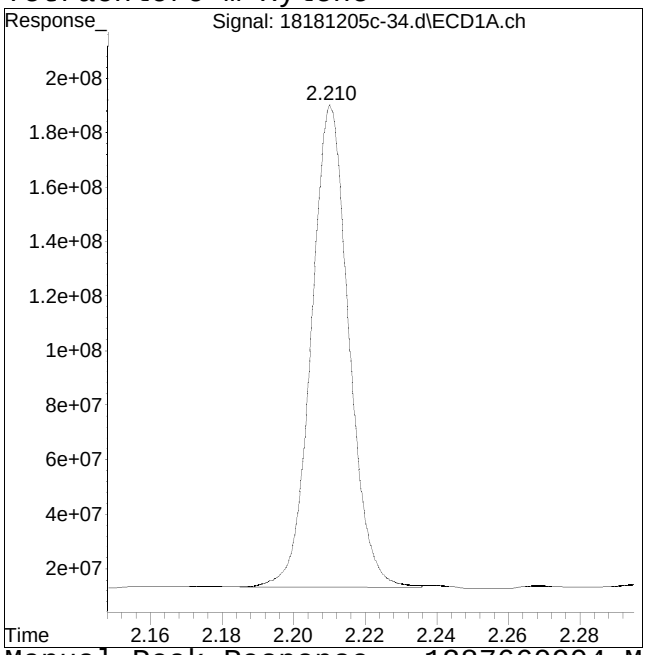
Manual Integration Report

Data Path : I:\Pest18\181205c\
Data File : 18181205c-34.d
Date Inj'd : 12/6/2018 1:49 am
Sample : wg1184846-2,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:sl
Instrument : Pest 18
Quant Date : 12/6/2018 10:37 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene





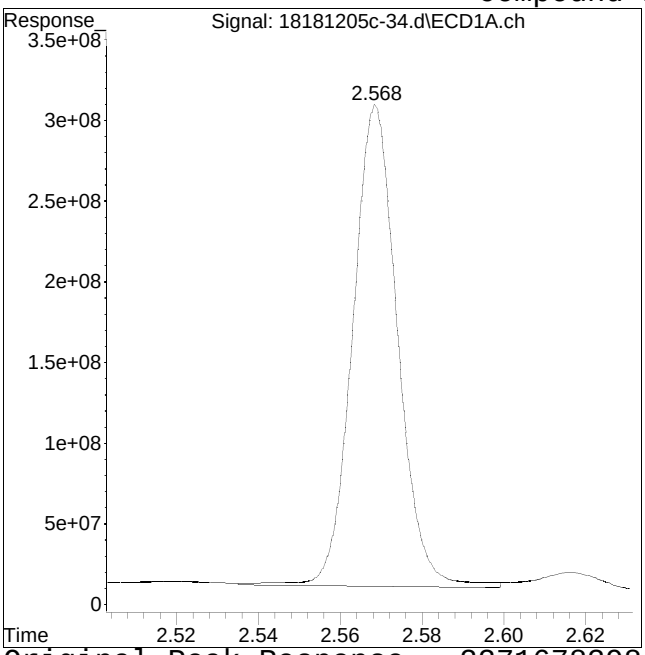
Original Peak Response = 1321322975 Manual Peak Response = 1287660904 M4
M4 = Poor automated baseline construction.

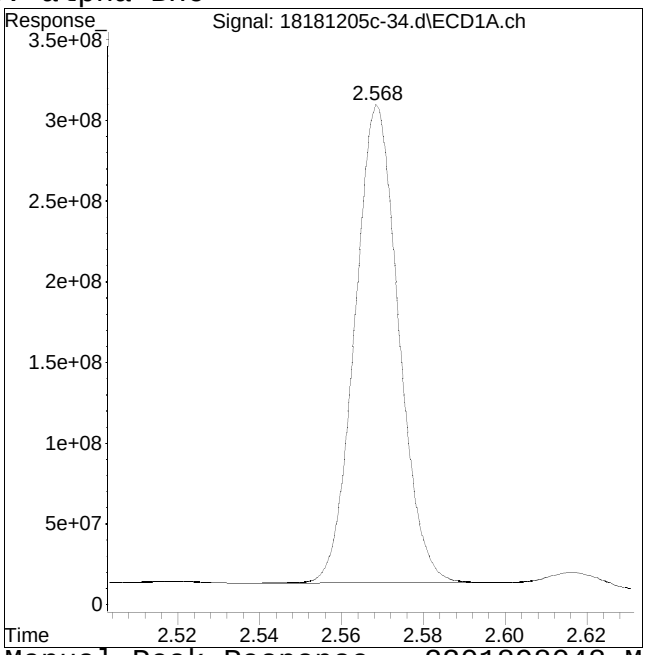
Manual Integration Report

Data Path : I:\Pest18\181205c\
Data File : 18181205c-34.d
Date Inj'd : 12/6/2018 1:49 am
Sample : wg1184846-2,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:sl
Instrument : Pest 18
Quant Date : 12/6/2018 10:37 pm

Compound #4: alpha-BHC





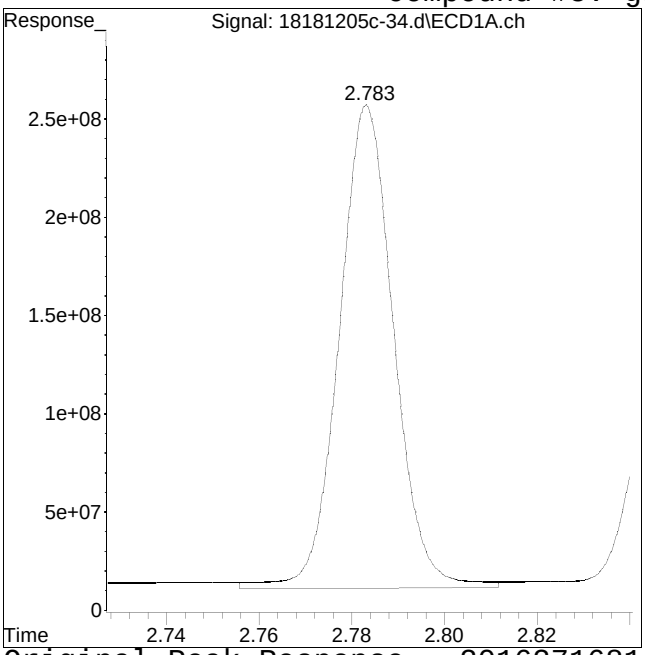
Original Peak Response = 2271678398 Manual Peak Response = 2201898048 M4
M4 = Poor automated baseline construction.

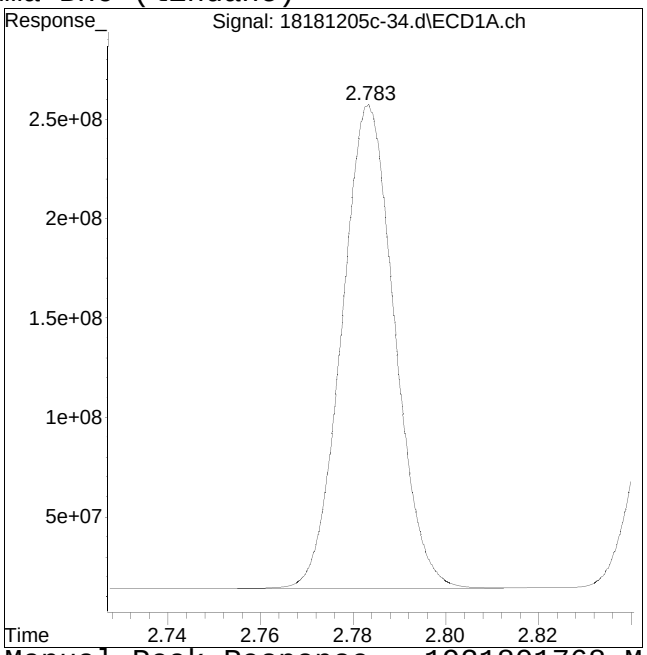
Manual Integration Report

Data Path : I:\Pest18\181205c\
Data File : 18181205c-34.d
Date Inj'd : 12/6/2018 1:49 am
Sample : wg1184846-2,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:sl
Instrument : Pest 18
Quant Date : 12/6/2018 10:37 pm

Compound #5: gamma-BHC (lindane)





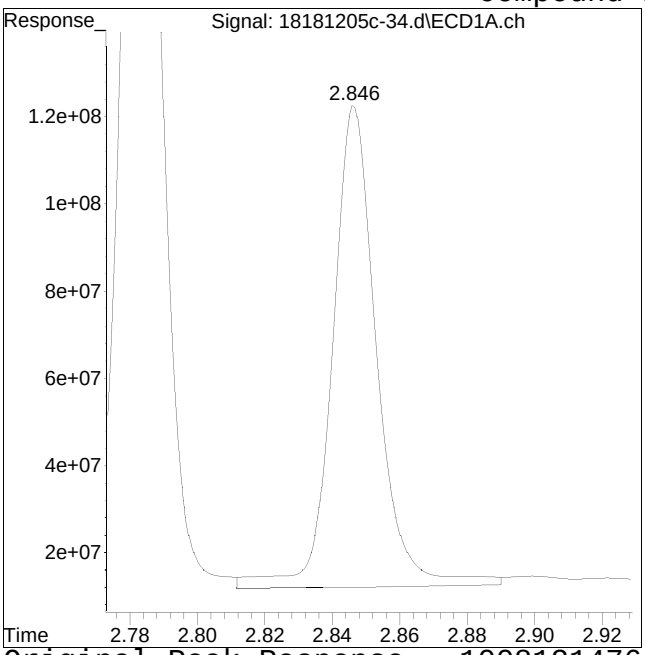
Original Peak Response = 2016271681 Manual Peak Response = 1921801768 M4
M4 = Poor automated baseline construction.

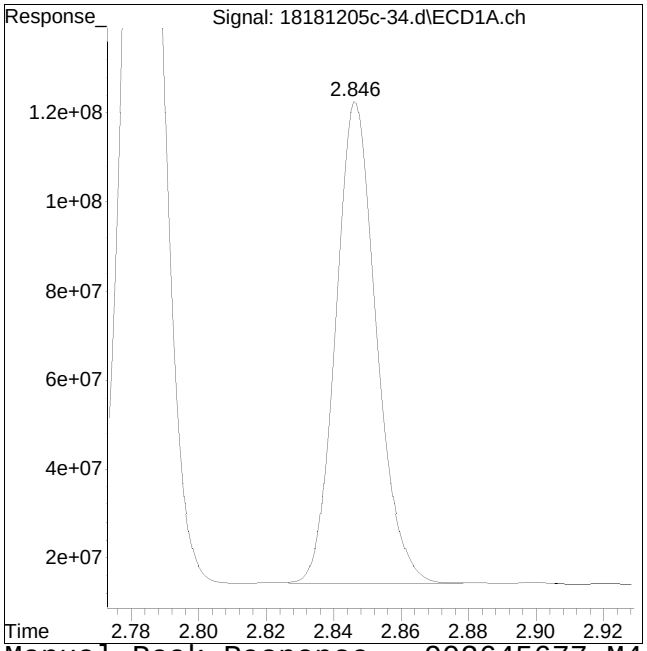
Manual Integration Report

Data Path : I:\Pest18\181205c\
Data File : 18181205c-34.d
Date Inj'd : 12/6/2018 1:49 am
Sample : wg1184846-2,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:sl
Instrument : Pest 18
Quant Date : 12/6/2018 10:37 pm

Compound #6: beta-BHC





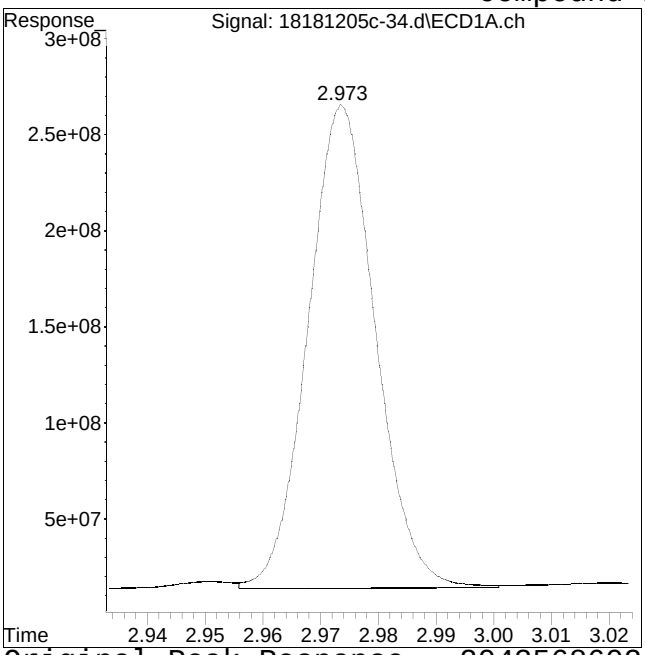
Original Peak Response = 1008121476 Manual Peak Response = 902645677 M4
M4 = Poor automated baseline construction.

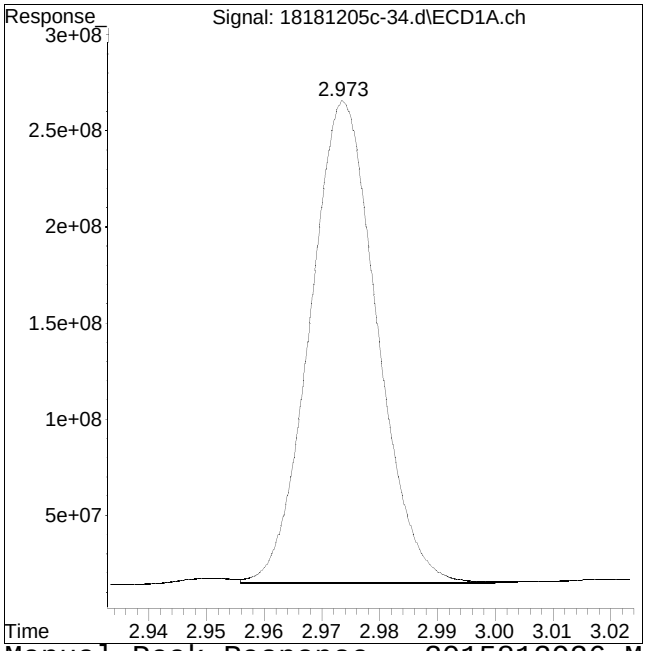
Manual Integration Report

Data Path : I:\Pest18\181205c\
Data File : 18181205c-34.d
Date Inj'd : 12/6/2018 1:49 am
Sample : wg1184846-2,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:sl
Instrument : Pest 18
Quant Date : 12/6/2018 10:37 pm

Compound #7: delta-BHC





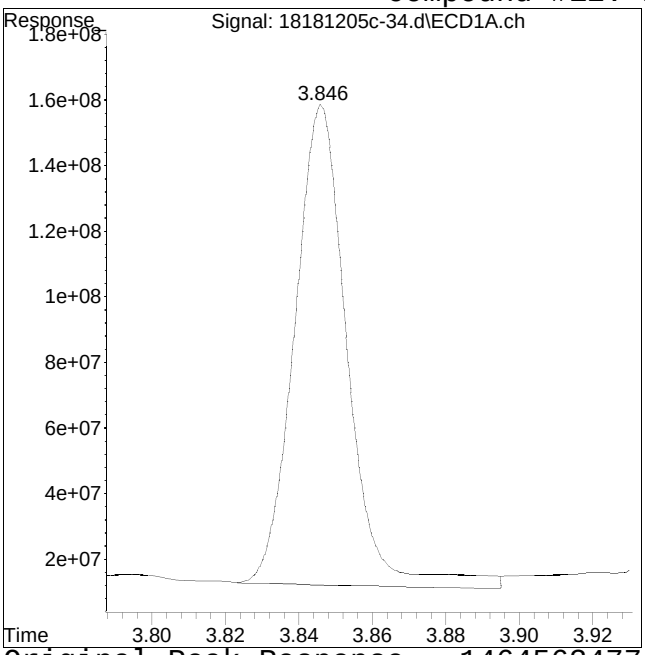
Original Peak Response = 2043568602 Manual Peak Response = 2015812936 M4
M4 = Poor automated baseline construction.

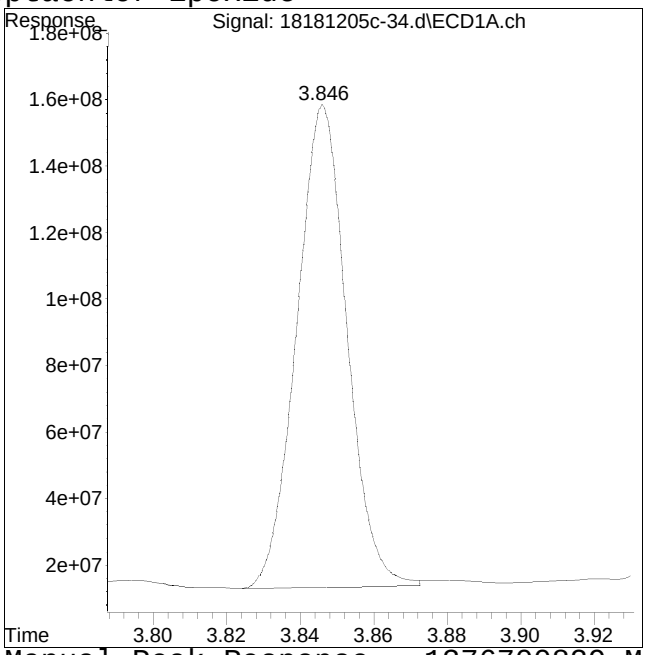
Manual Integration Report

Data Path : I:\Pest18\181205c\
Data File : 18181205c-34.d
Date Inj'd : 12/6/2018 1:49 am
Sample : wg1184846-2,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:sl
Instrument : Pest 18
Quant Date : 12/6/2018 10:37 pm

Compound #12: Heptachlor Epoxide





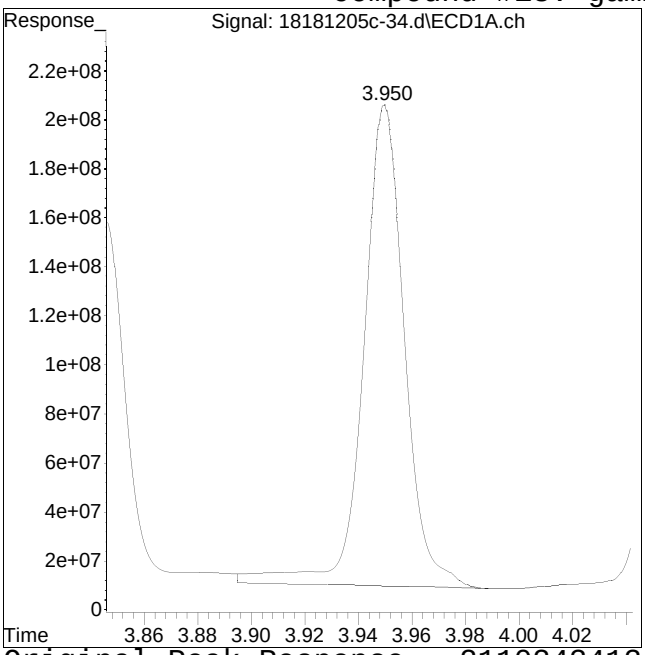
Original Peak Response = 1464563477 Manual Peak Response = 1376700829 M4
M4 = Poor automated baseline construction.

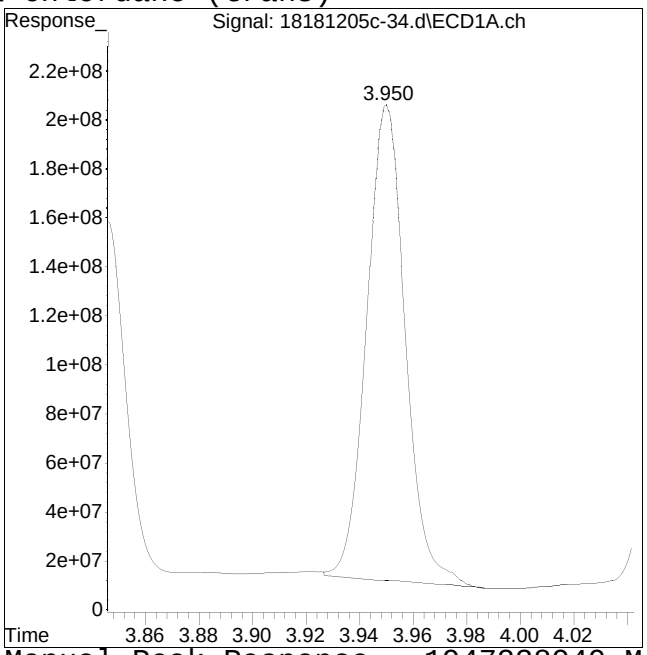
Manual Integration Report

Data Path : I:\Pest18\181205c\
Data File : 18181205c-34.d
Date Inj'd : 12/6/2018 1:49 am
Sample : wg1184846-2,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:sl
Instrument : Pest 18
Quant Date : 12/6/2018 10:37 pm

Compound #13: gamma-Chlordane (trans)





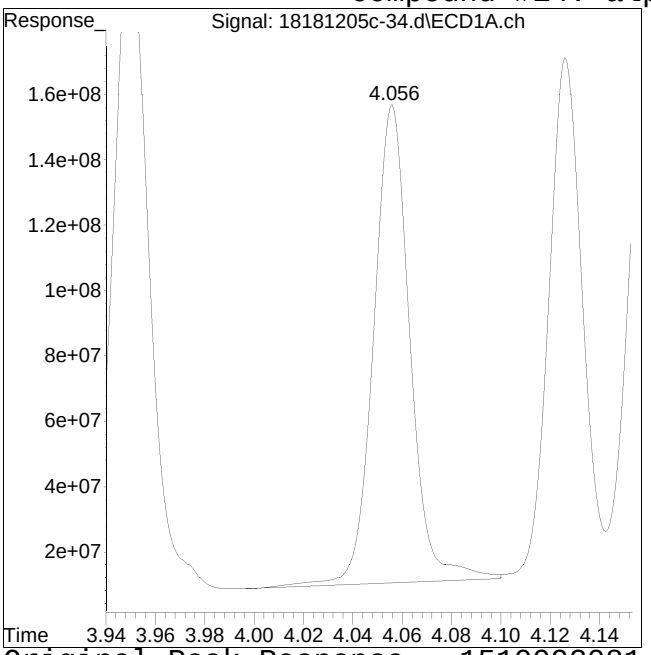
Original Peak Response = 2110243413 Manual Peak Response = 1947238949 M4
M4 = Poor automated baseline construction.

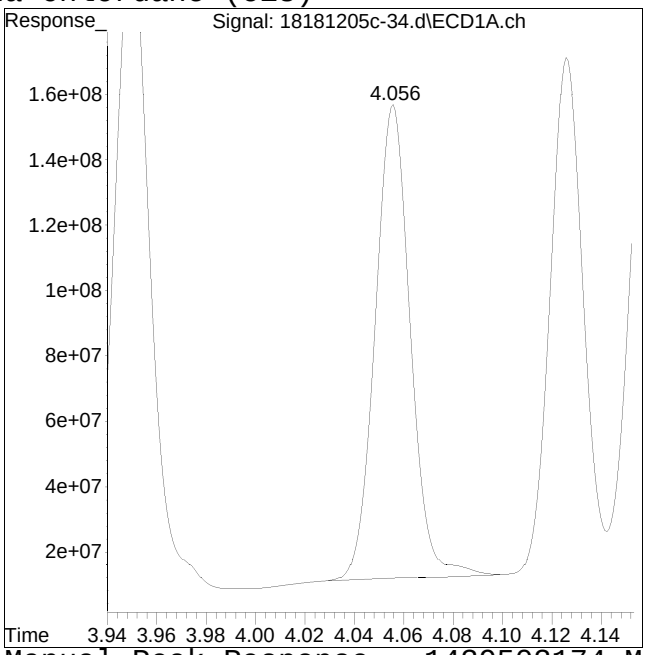
Manual Integration Report

Data Path : I:\Pest18\181205c\
Data File : 18181205c-34.d
Date Inj'd : 12/6/2018 1:49 am
Sample : wg1184846-2,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:sl
Instrument : Pest 18
Quant Date : 12/6/2018 10:37 pm

Compound #14: alpha-Chlordane (cis)





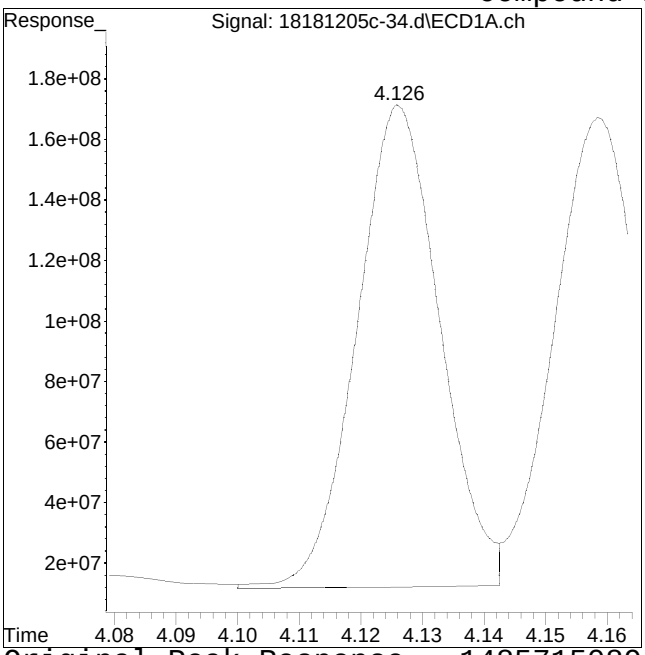
Original Peak Response = 1510092081 Manual Peak Response = 1439503174 M4
M4 = Poor automated baseline construction.

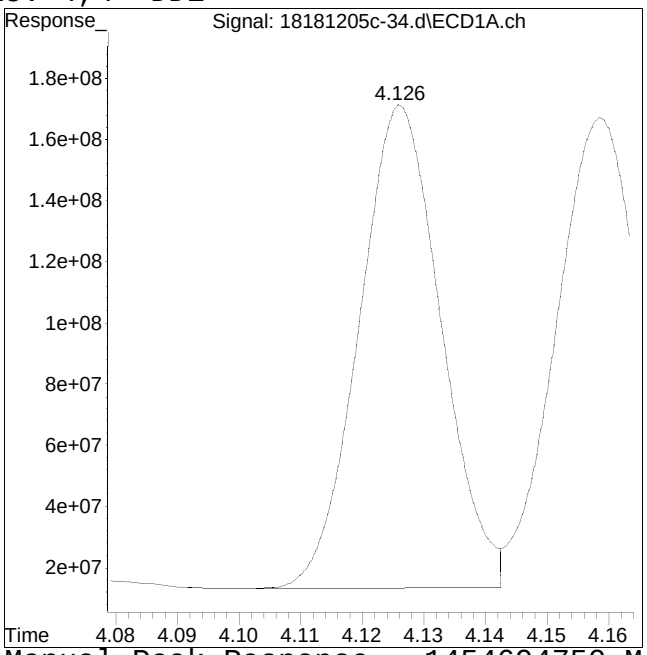
Manual Integration Report

Data Path : I:\Pest18\181205c\
Data File : 18181205c-34.d
Date Inj'd : 12/6/2018 1:49 am
Sample : wg1184846-2,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:sl
Instrument : Pest 18
Quant Date : 12/6/2018 10:37 pm

Compound #15: 4,4'-DDE





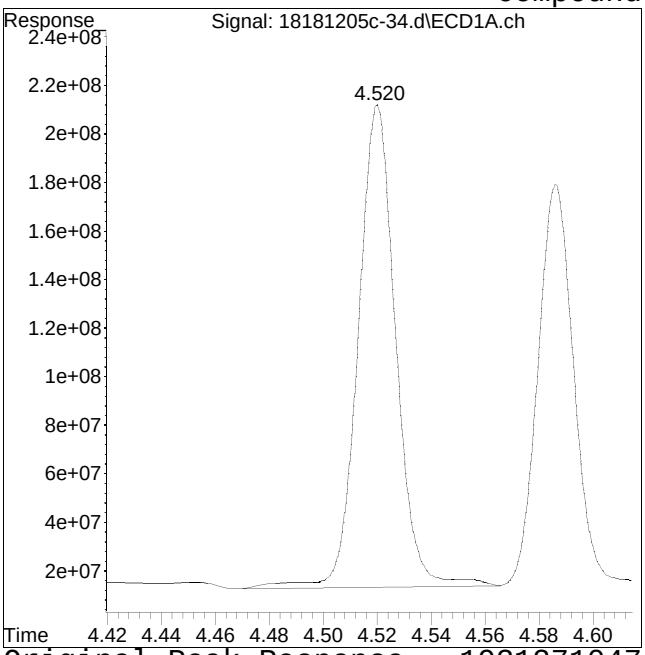
Original Peak Response = 1485715089 Manual Peak Response = 1454694750 M4
M4 = Poor automated baseline construction.

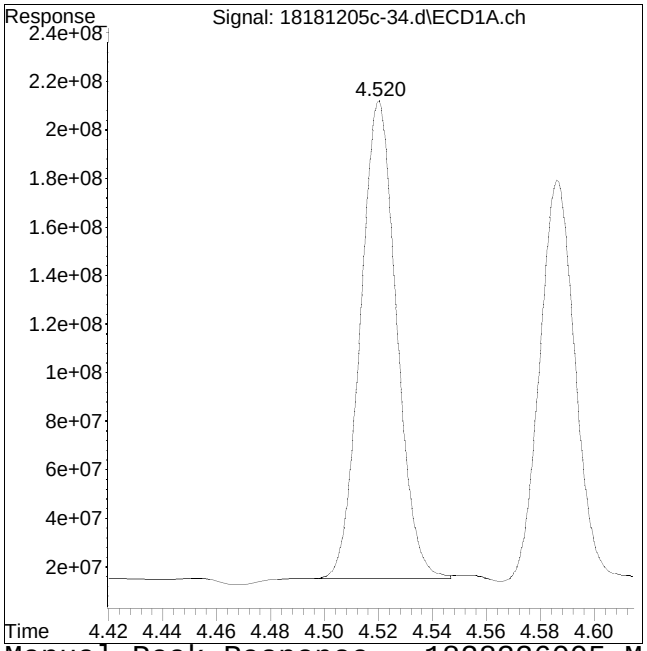
Manual Integration Report

Data Path : I:\Pest18\181205c\
Data File : 18181205c-34.d
Date Inj'd : 12/6/2018 1:49 am
Sample : wg1184846-2,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:sl
Instrument : Pest 18
Quant Date : 12/6/2018 10:37 pm

Compound #18: Endrin





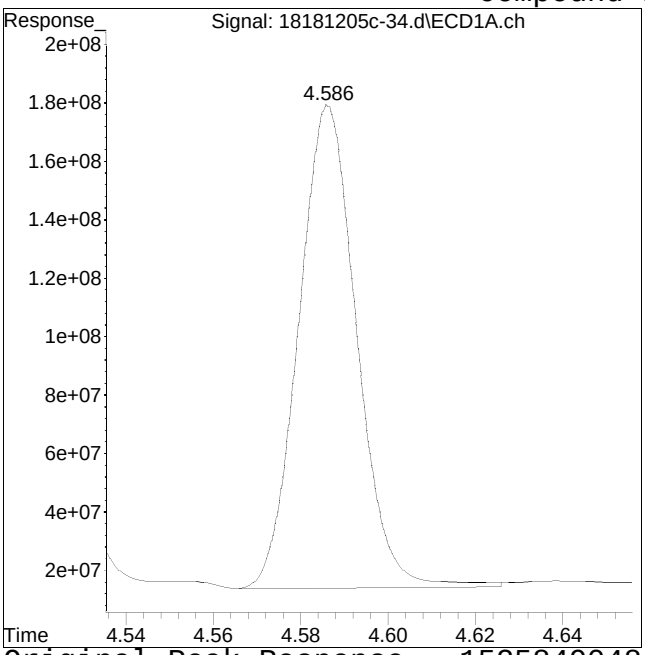
Original Peak Response = 1931271047 Manual Peak Response = 1828336005 M4
M4 = Poor automated baseline construction.

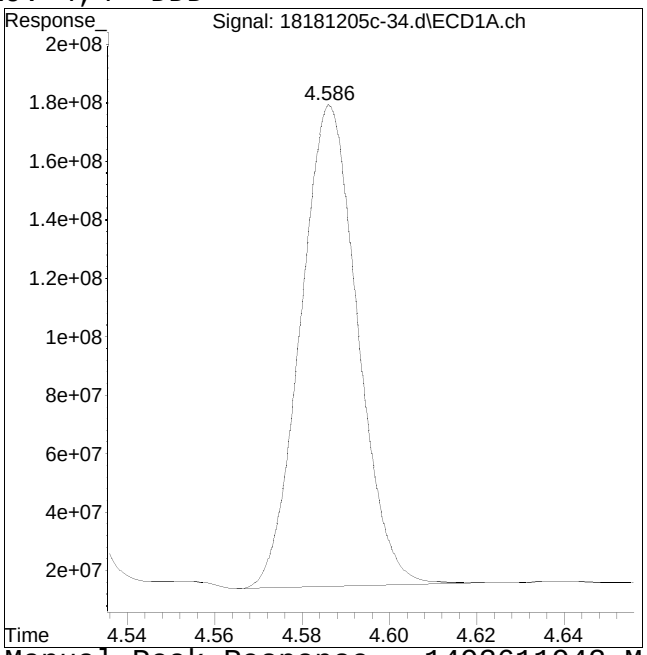
Manual Integration Report

Data Path : I:\Pest18\181205c\
Data File : 18181205c-34.d
Date Inj'd : 12/6/2018 1:49 am
Sample : wg1184846-2,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:sl
Instrument : Pest 18
Quant Date : 12/6/2018 10:37 pm

Compound #19: 4,4'-DDD





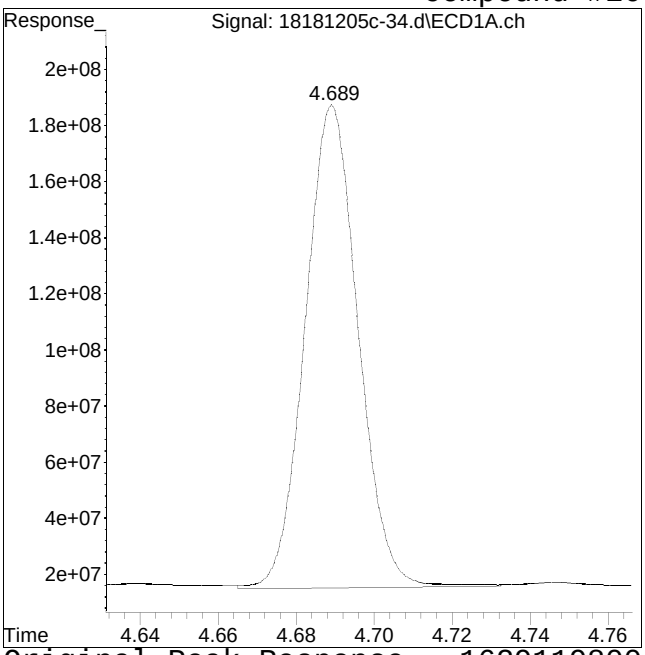
Original Peak Response = 1525849048 Manual Peak Response = 1493611942 M4
M4 = Poor automated baseline construction.

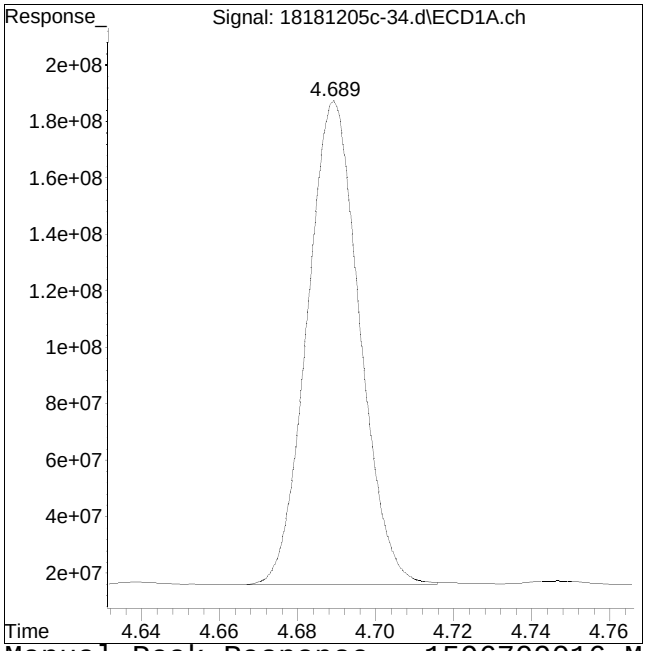
Manual Integration Report

Data Path : I:\Pest18\181205c\
Data File : 18181205c-34.d
Date Inj'd : 12/6/2018 1:49 am
Sample : wg1184846-2,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:sl
Instrument : Pest 18
Quant Date : 12/6/2018 10:37 pm

Compound #20: Endosulfan II





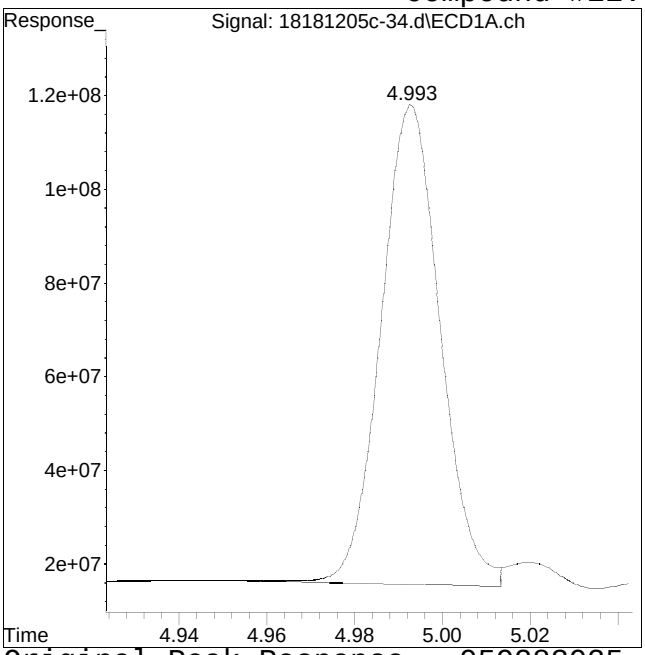
Original Peak Response = 1629119800 Manual Peak Response = 1596709016 M4
M4 = Poor automated baseline construction.

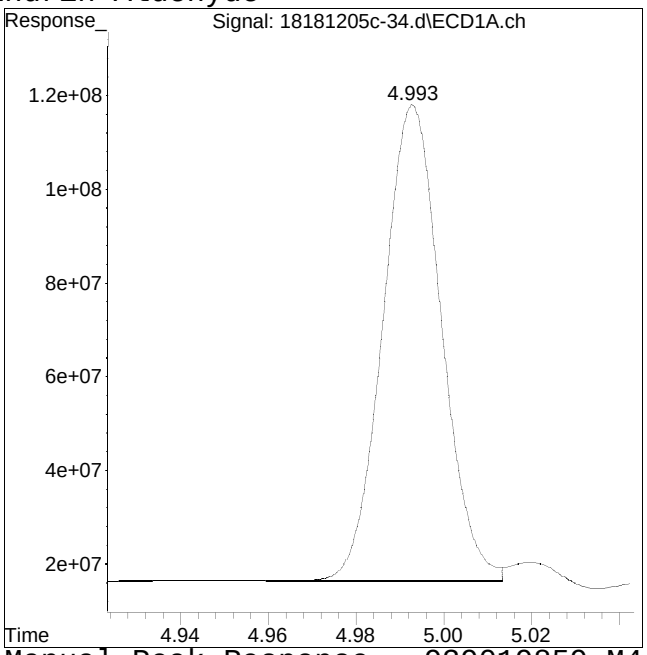
Manual Integration Report

Data Path : I:\Pest18\181205c\
Data File : 18181205c-34.d
Date Inj'd : 12/6/2018 1:49 am
Sample : wg1184846-2,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:sl
Instrument : Pest 18
Quant Date : 12/6/2018 10:37 pm

Compound #22: Endrin Aldehyde





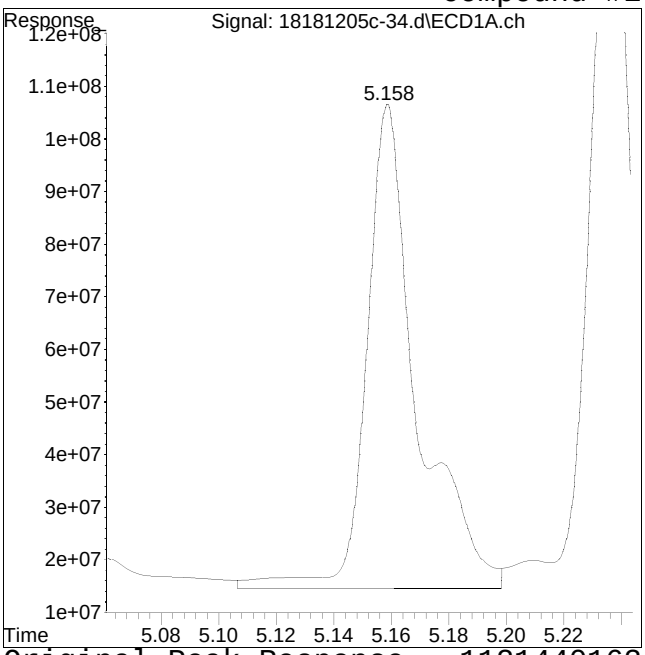
Original Peak Response = 959283925 Manual Peak Response = 939019859 M4
M4 = Poor automated baseline construction.

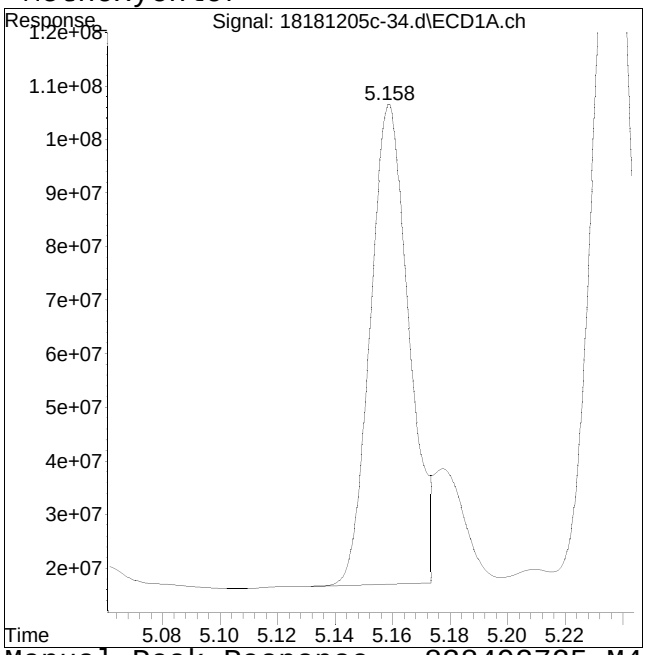
Manual Integration Report

Data Path : I:\Pest18\181205c\
Data File : 18181205c-34.d
Date Inj'd : 12/6/2018 1:49 am
Sample : wg1184846-2,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:sl
Instrument : Pest 18
Quant Date : 12/6/2018 10:37 pm

Compound #23: Methoxychlor





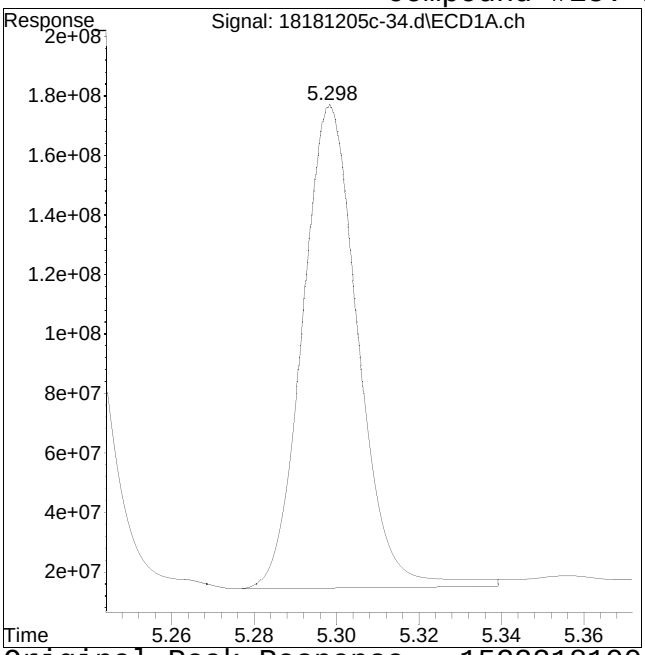
Original Peak Response = 1121440163 Manual Peak Response = 838492725 M4
M4 = Poor automated baseline construction.

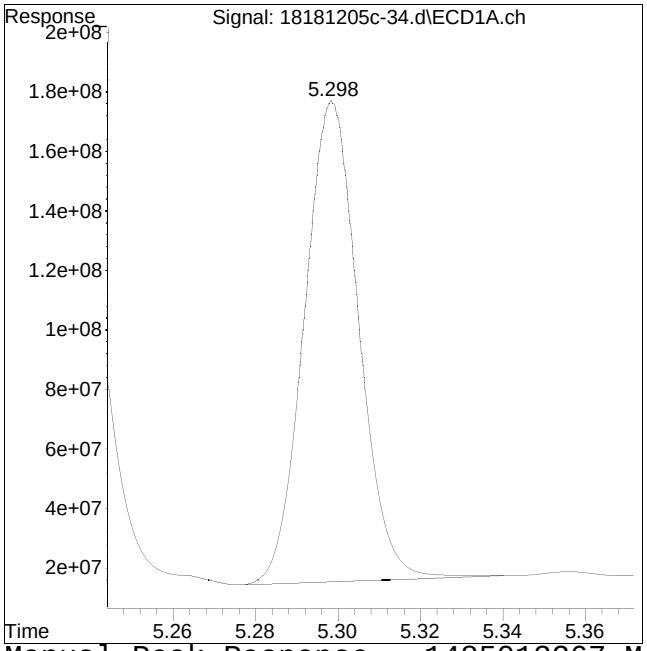
Manual Integration Report

Data Path : I:\Pest18\181205c\
Data File : 18181205c-34.d
Date Inj'd : 12/6/2018 1:49 am
Sample : wg1184846-2,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:sl
Instrument : Pest 18
Quant Date : 12/6/2018 10:37 pm

Compound #25: Endosulfan Sulfate





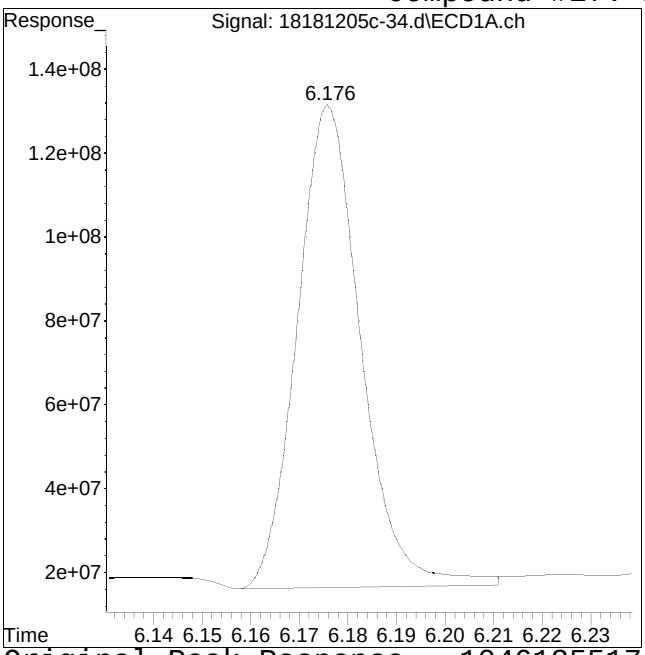
Original Peak Response = 1522218100 Manual Peak Response = 1485013267 M4
M4 = Poor automated baseline construction.

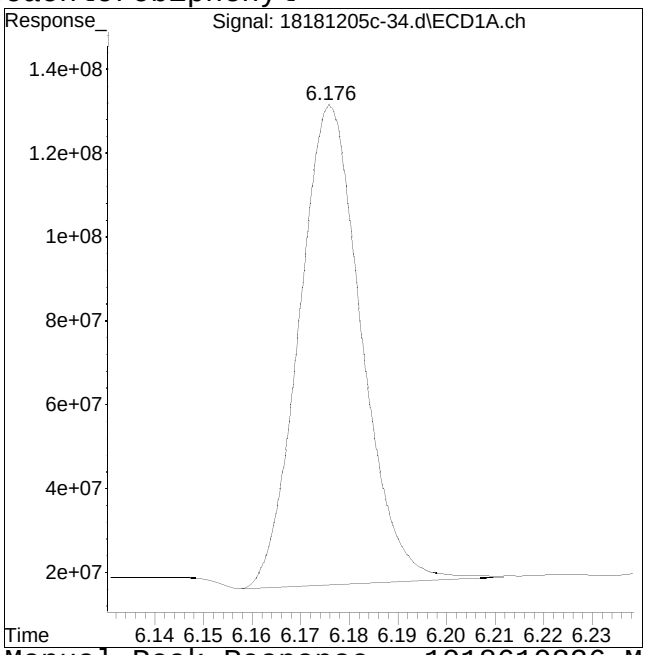
Manual Integration Report

Data Path : I:\Pest18\181205c\
Data File : 18181205c-34.d
Date Inj'd : 12/6/2018 1:49 am
Sample : wg1184846-2,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:sl
Instrument : Pest 18
Quant Date : 12/6/2018 10:37 pm

Compound #27: Decachlorobiphenyl





Original Peak Response = 1046125517 Manual Peak Response = 1018610326 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest18\181205c\
Data File : 18181205c-35.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Dec 2018 2:01 am
Operator : PEST18:sl
Sample : wg1184846-3,42e,,
Misc : wg1186046,wg1184846,Ical15103
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 23:09:00 2018
Quant Method : I:\Pest18\181205c\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Thu Dec 06 22:36:19 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest18\181205c\18181205c-25.d
Sub List : 1_LCS_MS_pest - pest spk

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l
	Internal Standards						
1) i	1-br-2-nb_Pe	1.744	1.855	694.5E6	776.0E6	25.000	25.000
	Standard Area 1 : #1 = 778709891				Recovery =	89.18%	
	Standard Area 1 : #2 = 854695285				Recovery =	90.79%	
	System Monitoring Compounds						
2) s	2,4,5,6-Tetr	2.211	2.436	1363.1E6	1598.5E6	50.159	52.444M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =	100.32%	104.89%	
27) s	Decachlorobi	6.174	6.761	1081.5E6	1204.1E6	43.916M4	49.437M4
	Spiked Amount 50.000	Range 30 - 150		Recovery =	87.83%	98.87%	
	Target Compounds						
4)	alpha-BHC	2.569	2.878	2290.5E6	2505.6E6	52.047M4	50.008M4
6)	beta-BHC	2.846	3.224	986.5E6	1122.1E6	56.859M4	54.906
7)	delta-BHC	2.974	3.468	2227.6E6	2002.2E6	54.677M4	42.776M4
8)	Heptachlor	3.132	3.517	2288.8E6	2084.7E6	61.023	48.005M4
9)	Aldrin	3.361	3.797	1761.1E6	2045.4E6	51.435M4	52.053M4
15)	4,4'-DDE	4.126	4.670	1547.6E6	1916.7E6	47.290M4	51.188
16)	Endosulfan I	4.159	4.590	1588.5E6	1697.2E6	51.427	48.660
17)	Dieldrin	4.347	4.799	2015.2E6	2041.7E6	60.826	55.178M4
18)	Endrin	4.520	5.026	1937.5E6	2019.3E6	57.757M4	55.340M4
19)	4,4'-DDD	4.586	5.102	1621.7E6	1661.6E6	55.924	50.894M4
20)	Endosulfan I	4.689	5.182	1726.3E6	1732.1E6	57.667M4	52.108M4
21)	4,4'-DDT	4.796	5.324	1799.8E6	1604.4E6	56.588	46.227M4
23)	Methoxychlor	5.158	5.794	894.1E6	895.6E6	56.732M4	52.828M4
	SemiQuant Compounds - Not Calibrated on this Instrument						

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest18\181205c\
Data File : 18181205c-35.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Dec 2018 2:01 am
Operator : PEST18:sl
Sample : wg1184846-3,42e,,
Misc : wg1186046,wg1184846,Ical15103
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 23:09:00 2018
Quant Method : I:\Pest18\181205c\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Thu Dec 06 22:36:19 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest18\181205c\18181205c-25.d
Sub List : 1_LCS_MS_pest - pest spk

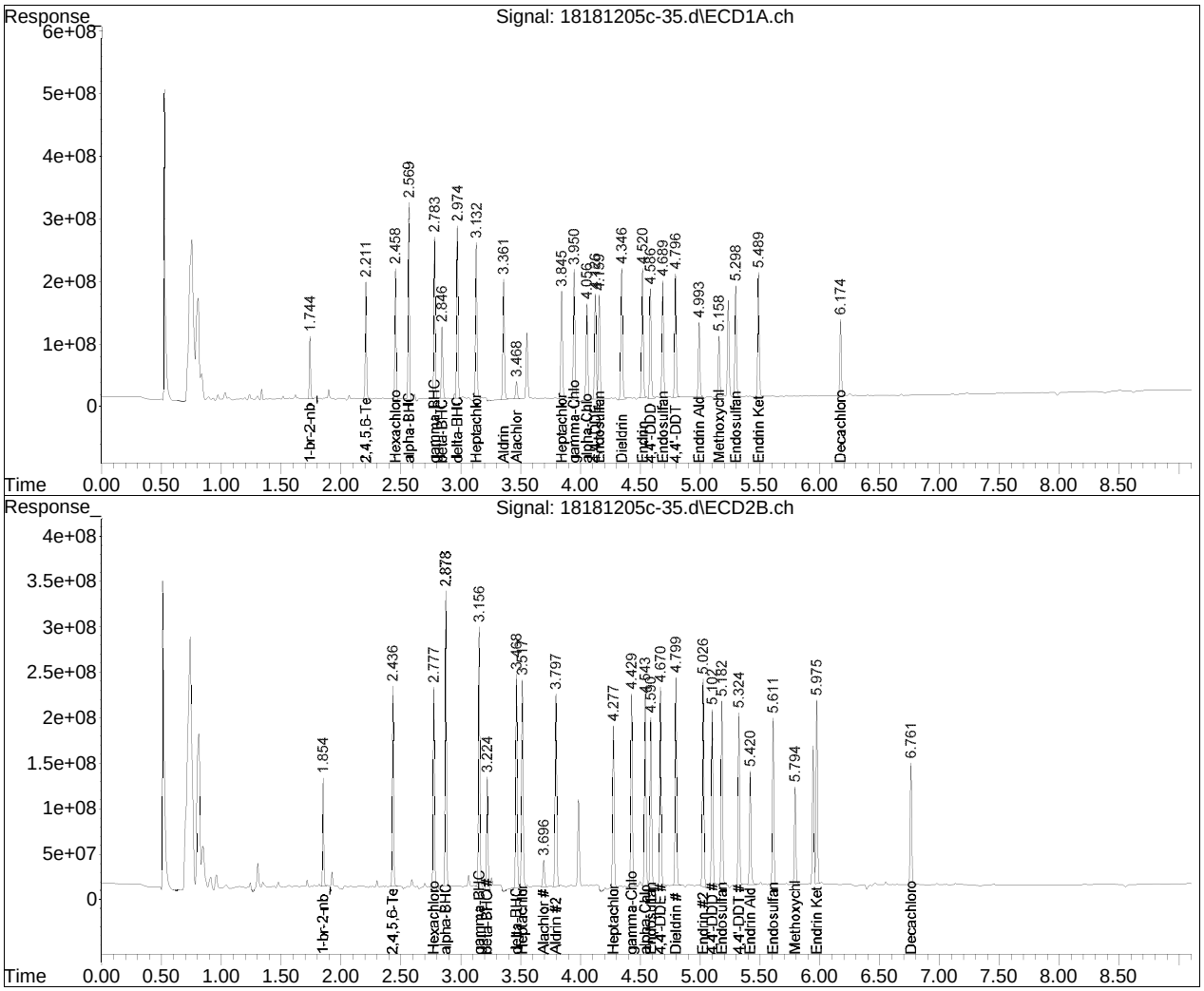
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

```
Sub List     : 1_LCS_MS_pest - pest spk181205c-25.d••d)

Data Path : I:\Pest18\181205c\
Data File : 18181205c-35.d
Signal(s) : Signal #1: ECD1A.ch  Signal #2: ECD2B.ch
Acq On    :  6 Dec 2018   2:01 am
Operator  : PEST18:sl
Sample    : wg1184846-3,42e,,
Misc      : wg1186046,wg1184846,Ical15103
ALS Vial  : 35   Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 06 23:09:00 2018
Quant Method : I:\Pest18\181205c\pest18_09_19_18_15103.m
Quant Title  : pest
QLast Update : Thu Dec 06 22:36:19 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```

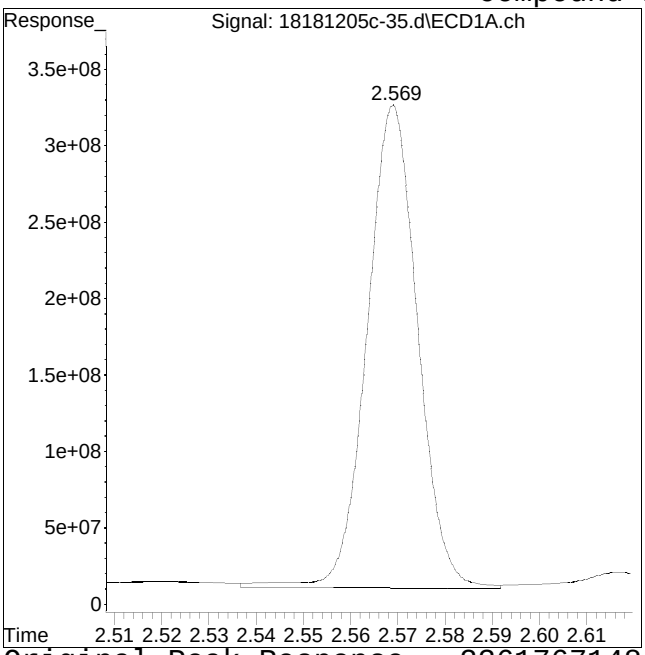


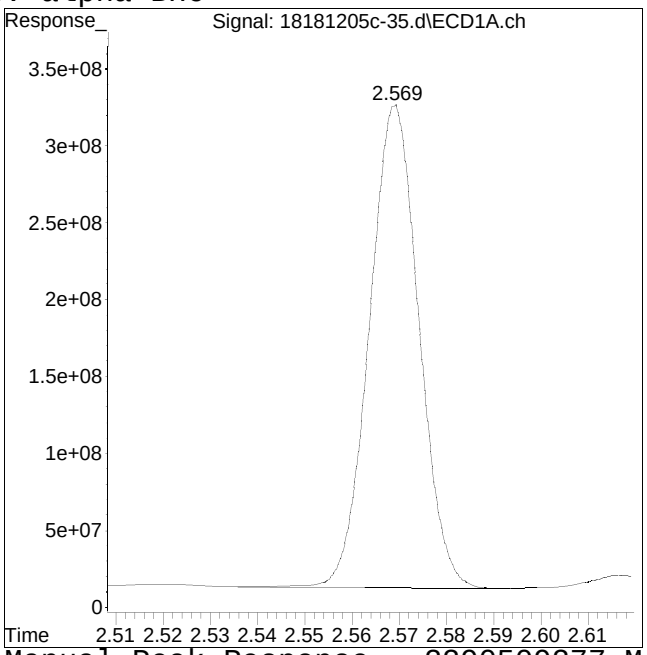
Manual Integration Report

Data Path : I:\Pest18\181205c\
Data File : 18181205c-35.d
Date Inj'd : 12/6/2018 2:01 am
Sample : wg1184846-3,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:sl
Instrument : Pest 18
Quant Date : 12/6/2018 10:38 pm

Compound #4: alpha-BHC





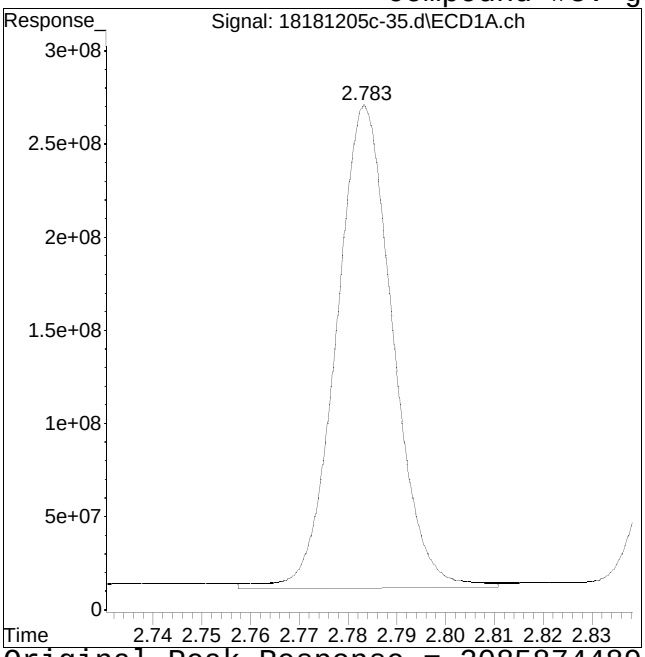
Original Peak Response = 2361767148 Manual Peak Response = 2290509277 M4
M4 = Poor automated baseline construction.

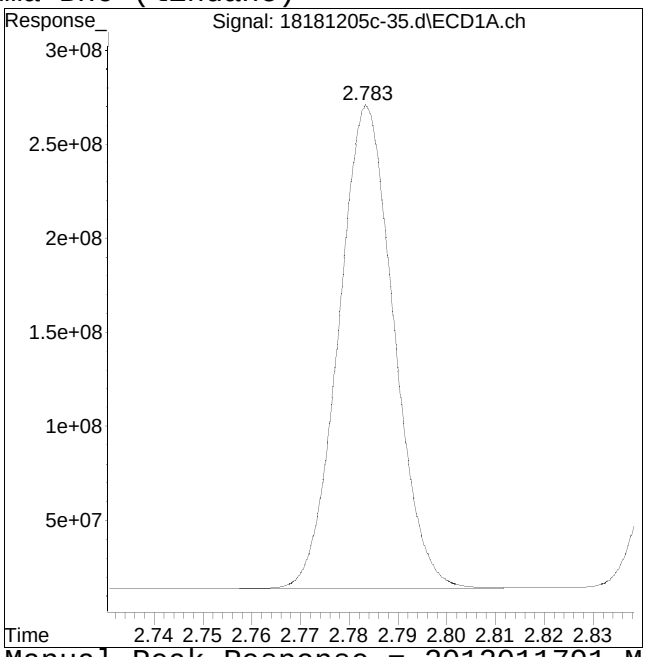
Manual Integration Report

Data Path : I:\Pest18\181205c\
Data File : 18181205c-35.d
Date Inj'd : 12/6/2018 2:01 am
Sample : wg1184846-3,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:sl
Instrument : Pest 18
Quant Date : 12/6/2018 10:38 pm

Compound #5: gamma-BHC (lindane)





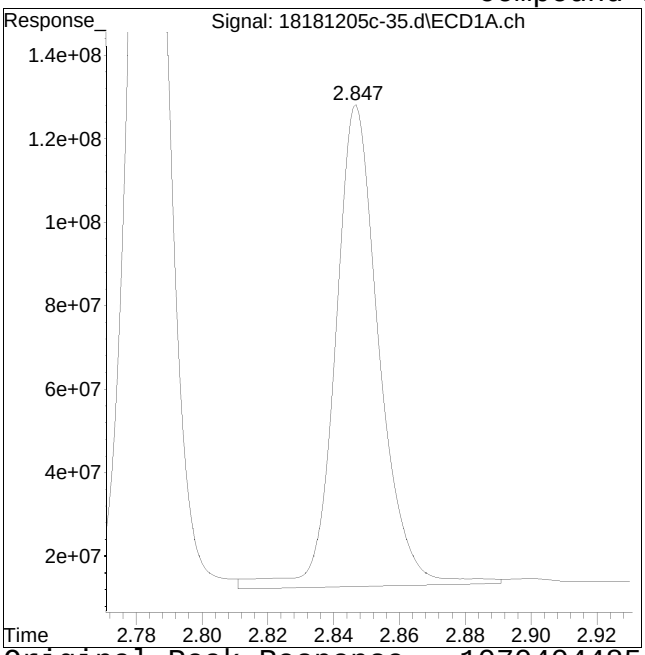
Original Peak Response = 2085874489 Manual Peak Response = 2012011791 M4
M4 = Poor automated baseline construction.

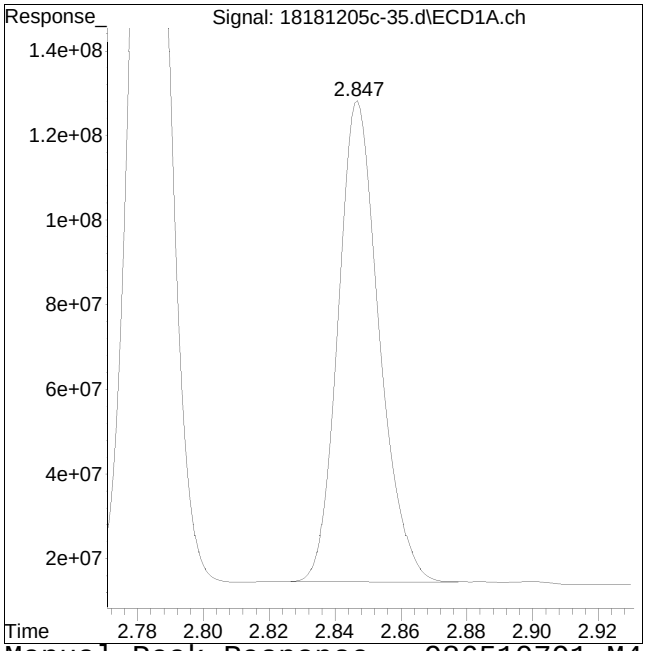
Manual Integration Report

Data Path : I:\Pest18\181205c\
Data File : 18181205c-35.d
Date Inj'd : 12/6/2018 2:01 am
Sample : wg1184846-3,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:sl
Instrument : Pest 18
Quant Date : 12/6/2018 10:38 pm

Compound #6: beta-BHC





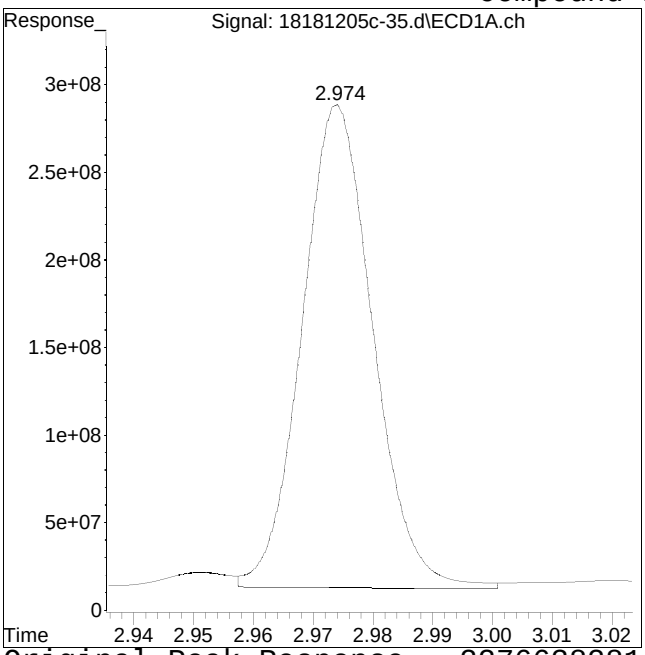
Original Peak Response = 1070404485 Manual Peak Response = 986510791 M4
M4 = Poor automated baseline construction.

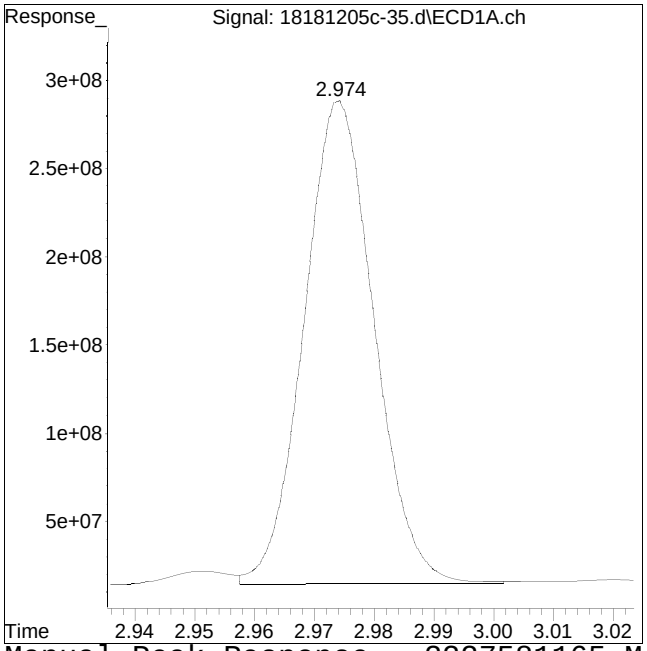
Manual Integration Report

Data Path : I:\Pest18\181205c\
Data File : 18181205c-35.d
Date Inj'd : 12/6/2018 2:01 am
Sample : wg1184846-3,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:sl
Instrument : Pest 18
Quant Date : 12/6/2018 10:38 pm

Compound #7: delta-BHC





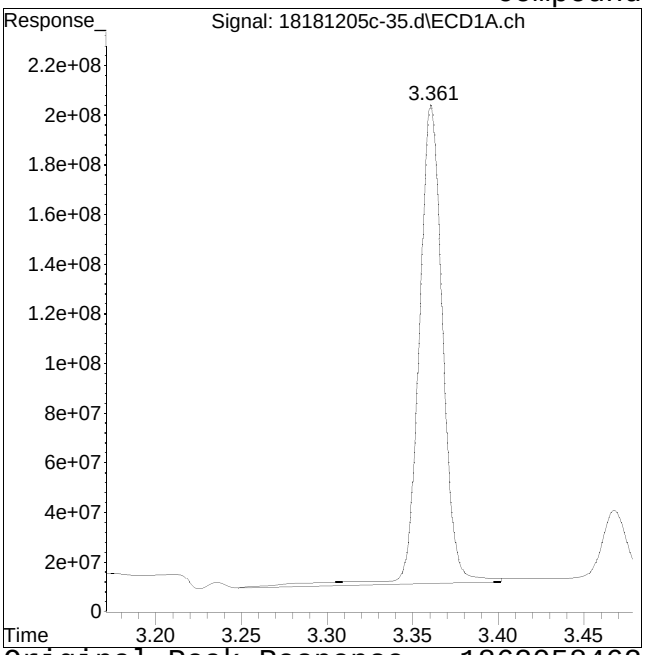
Original Peak Response = 2276638281 Manual Peak Response = 2227581165 M4
M4 = Poor automated baseline construction.

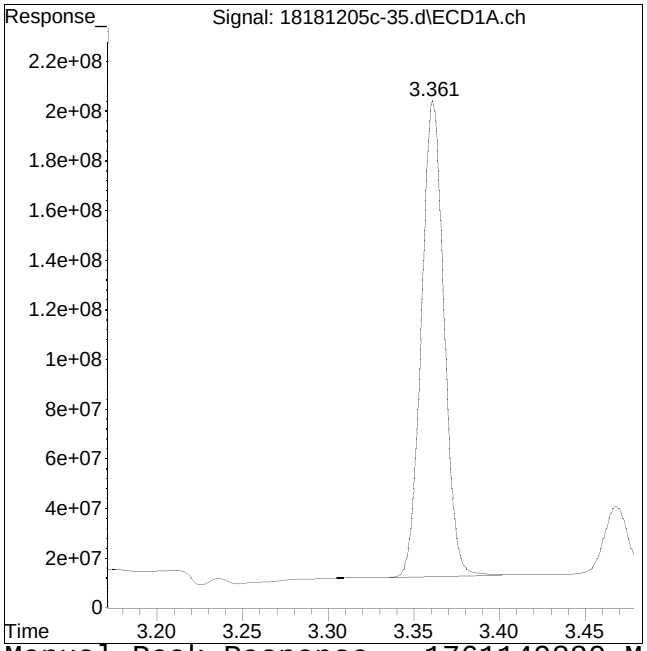
Manual Integration Report

Data Path : I:\Pest18\181205c\
Data File : 18181205c-35.d
Date Inj'd : 12/6/2018 2:01 am
Sample : wg1184846-3,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:sl
Instrument : Pest 18
Quant Date : 12/6/2018 10:38 pm

Compound #9: Aldrin





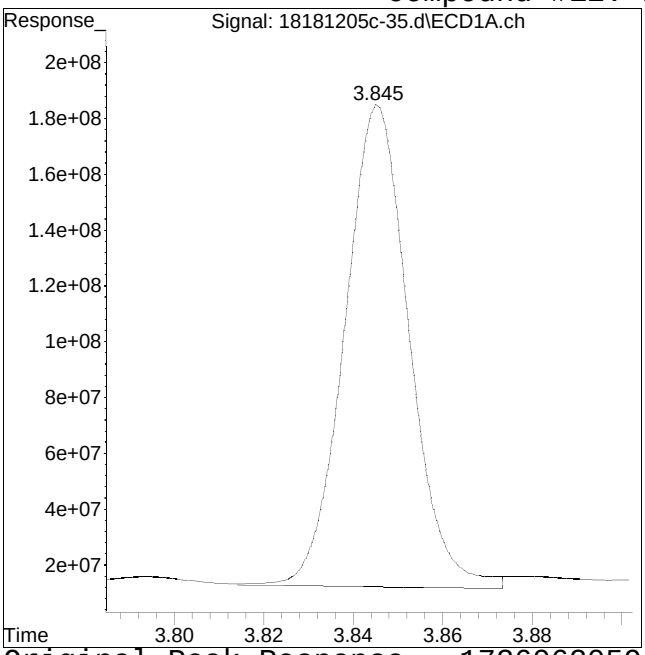
Original Peak Response = 1862058462 Manual Peak Response = 1761149880 M4
M4 = Poor automated baseline construction.

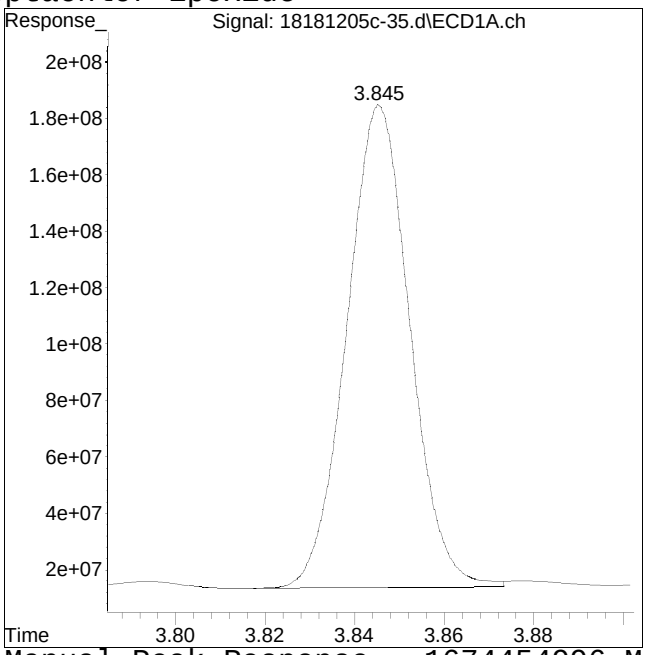
Manual Integration Report

Data Path : I:\Pest18\181205c\
Data File : 18181205c-35.d
Date Inj'd : 12/6/2018 2:01 am
Sample : wg1184846-3,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:sl
Instrument : Pest 18
Quant Date : 12/6/2018 10:38 pm

Compound #12: Heptachlor Epoxide





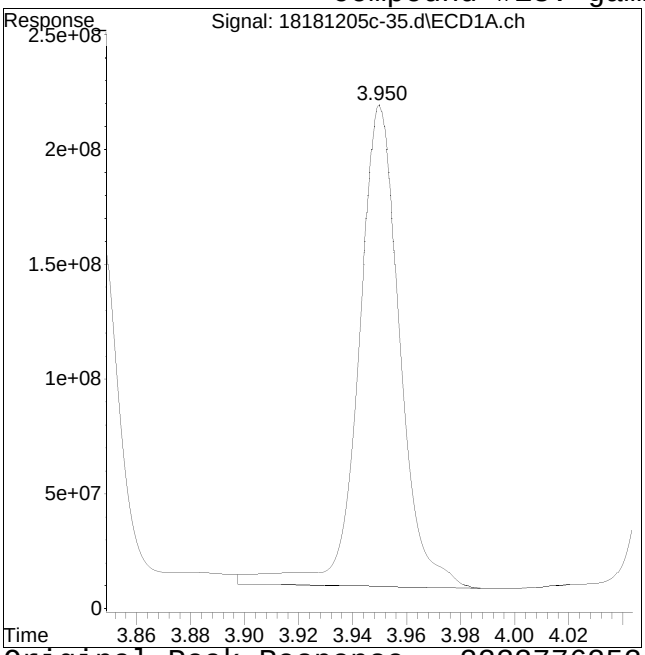
Original Peak Response = 1726062059 Manual Peak Response = 1674454996 M4
M4 = Poor automated baseline construction.

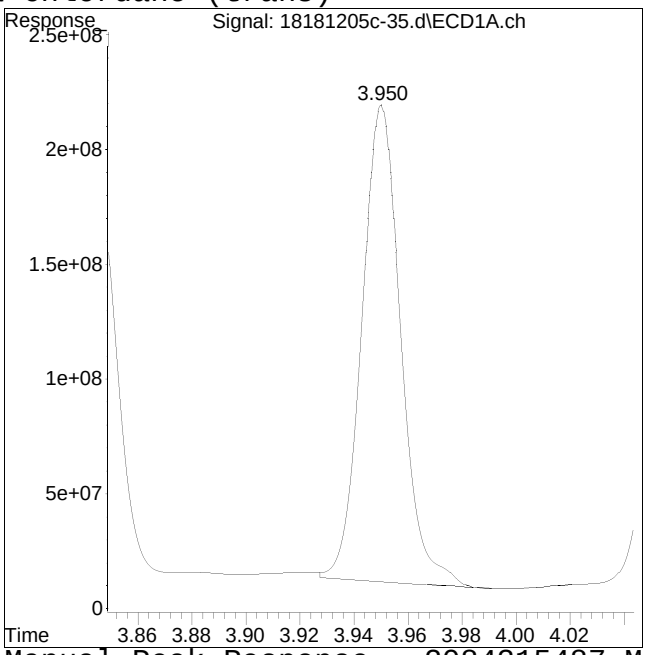
Manual Integration Report

Data Path : I:\Pest18\181205c\
Data File : 18181205c-35.d
Date Inj'd : 12/6/2018 2:01 am
Sample : wg1184846-3,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:sl
Instrument : Pest 18
Quant Date : 12/6/2018 10:38 pm

Compound #13: gamma-Chlordane (trans)





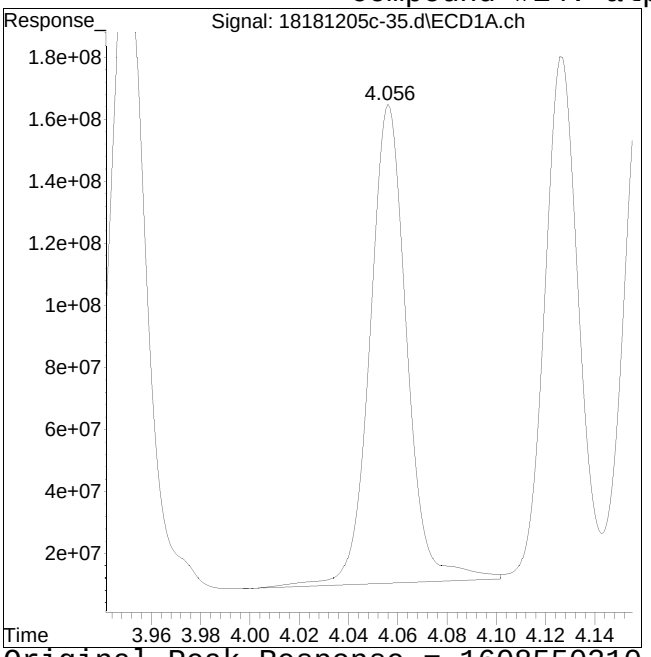
Original Peak Response = 2233776253 Manual Peak Response = 2084315487 M4
M4 = Poor automated baseline construction.

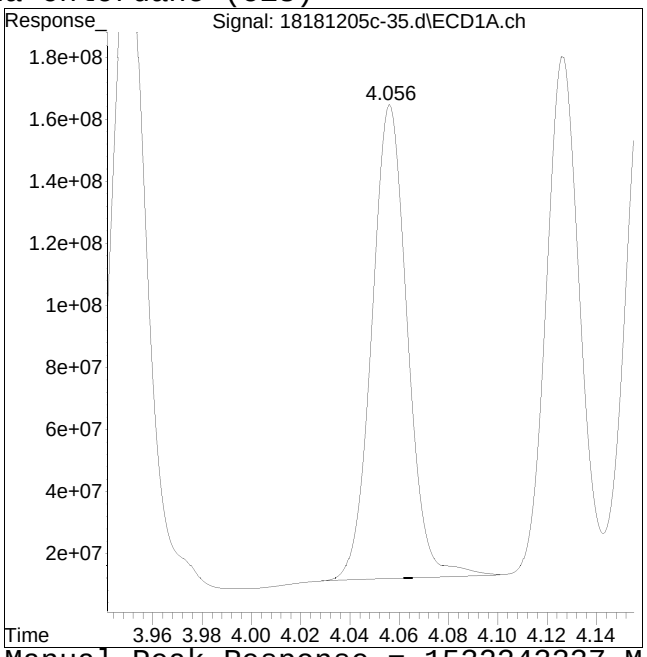
Manual Integration Report

Data Path : I:\Pest18\181205c\
Data File : 18181205c-35.d
Date Inj'd : 12/6/2018 2:01 am
Sample : wg1184846-3,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:sl
Instrument : Pest 18
Quant Date : 12/6/2018 10:38 pm

Compound #14: alpha-Chlordane (cis)





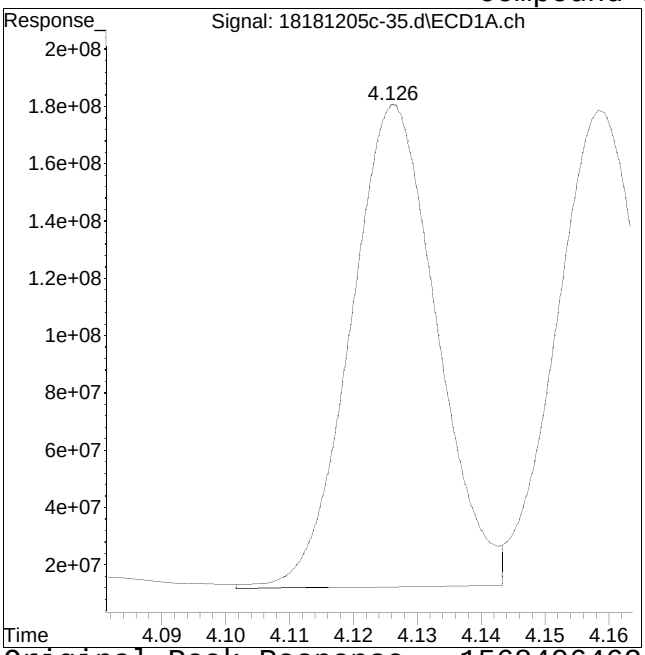
Original Peak Response = 1608550210 Manual Peak Response = 1532243337 M4
M4 = Poor automated baseline construction.

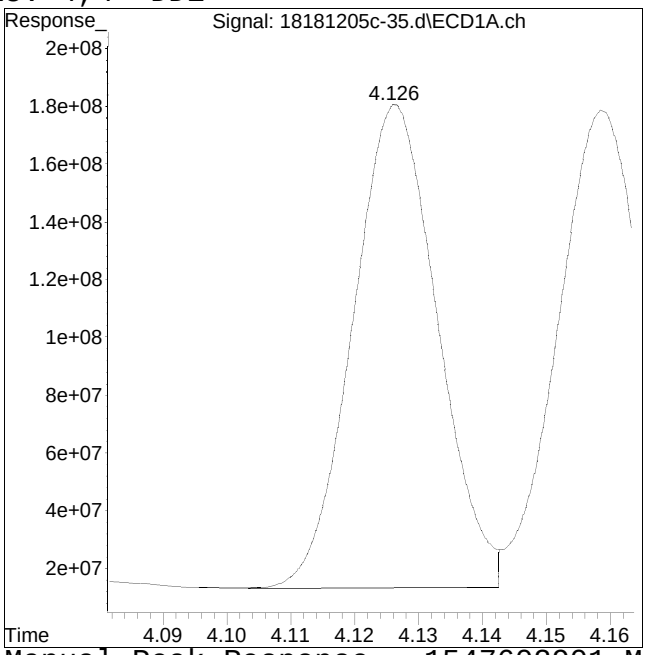
Manual Integration Report

Data Path : I:\Pest18\181205c\
Data File : 18181205c-35.d
Date Inj'd : 12/6/2018 2:01 am
Sample : wg1184846-3,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:sl
Instrument : Pest 18
Quant Date : 12/6/2018 10:38 pm

Compound #15: 4,4'-DDE





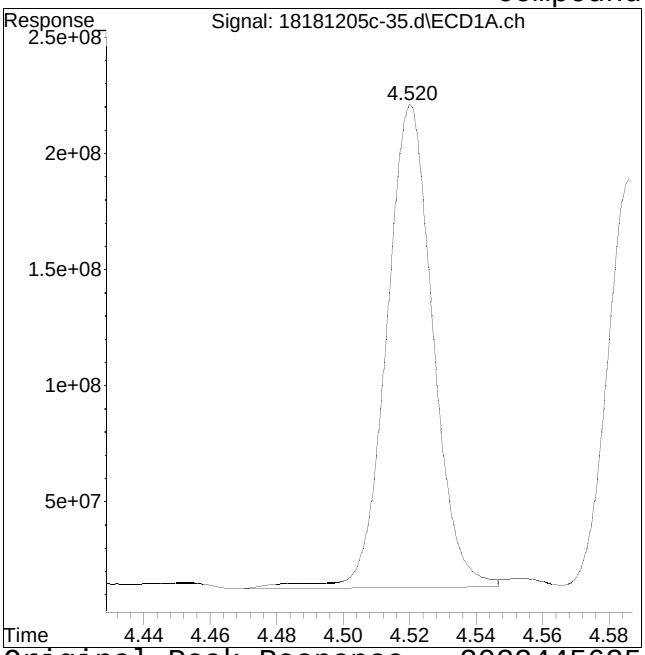
Original Peak Response = 1568406462 Manual Peak Response = 1547602901 M4
M4 = Poor automated baseline construction.

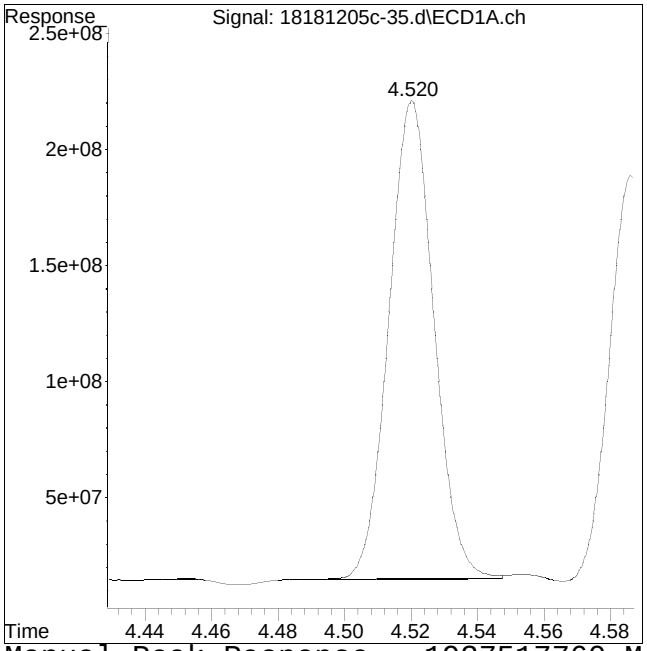
Manual Integration Report

Data Path : I:\Pest18\181205c\
Data File : 18181205c-35.d
Date Inj'd : 12/6/2018 2:01 am
Sample : wg1184846-3,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:sl
Instrument : Pest 18
Quant Date : 12/6/2018 10:38 pm

Compound #18: Endrin





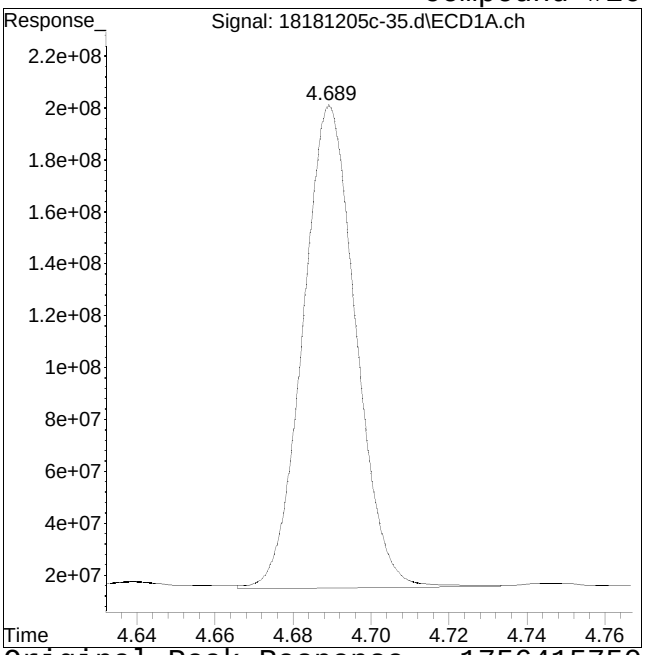
Original Peak Response = 2022445635 Manual Peak Response = 1937517760 M4
M4 = Poor automated baseline construction.

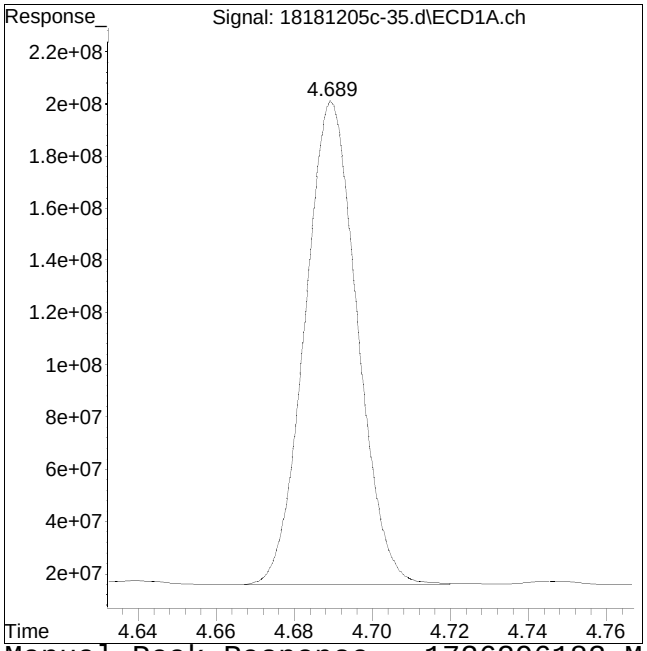
Manual Integration Report

Data Path : I:\Pest18\181205c\
Data File : 18181205c-35.d
Date Inj'd : 12/6/2018 2:01 am
Sample : wg1184846-3,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:sl
Instrument : Pest 18
Quant Date : 12/6/2018 10:38 pm

Compound #20: Endosulfan II





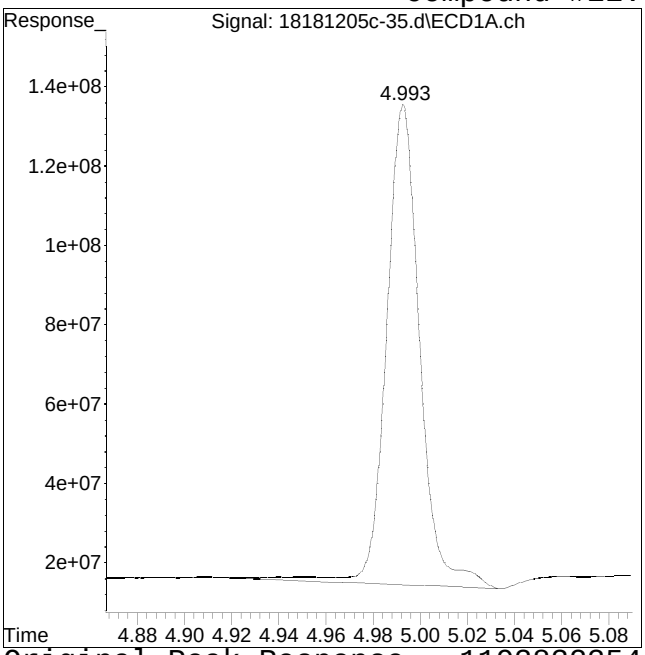
Original Peak Response = 1756415750 Manual Peak Response = 1726296183 M4
M4 = Poor automated baseline construction.

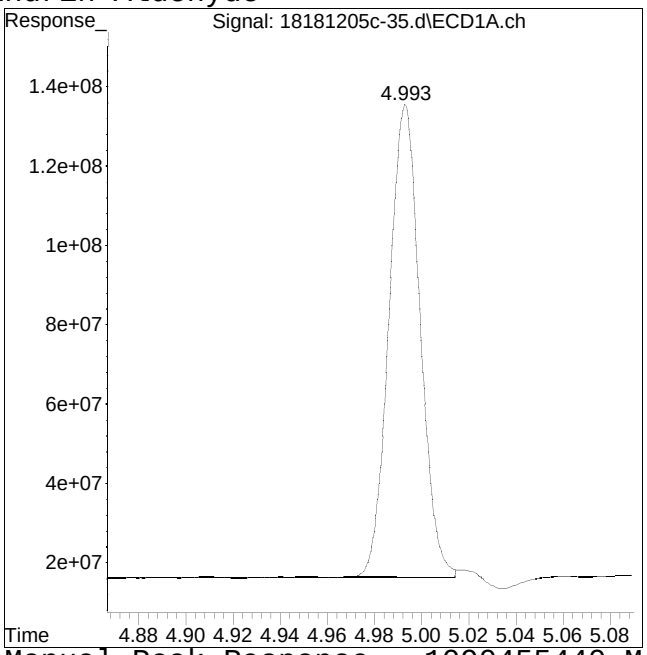
Manual Integration Report

Data Path : I:\Pest18\181205c\
Data File : 18181205c-35.d
Date Inj'd : 12/6/2018 2:01 am
Sample : wg1184846-3,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:sl
Instrument : Pest 18
Quant Date : 12/6/2018 10:38 pm

Compound #22: Endrin Aldehyde





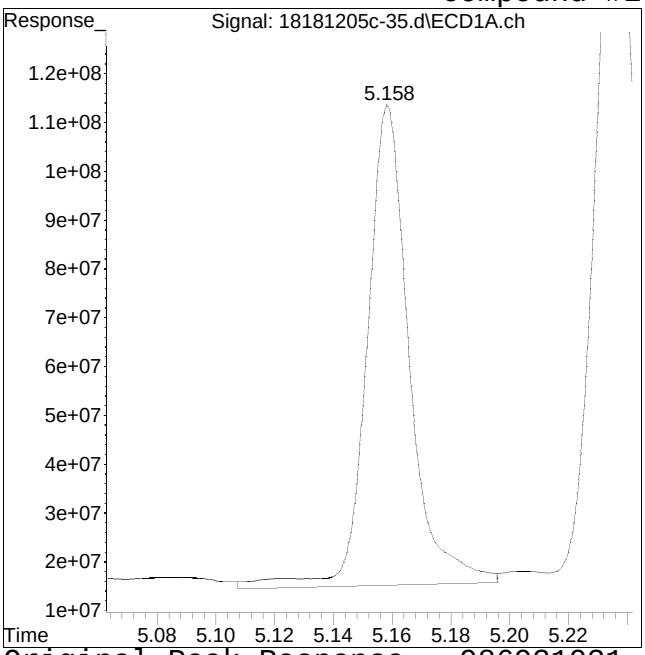
Original Peak Response = 1193832354 Manual Peak Response = 1090455440 M4
M4 = Poor automated baseline construction.

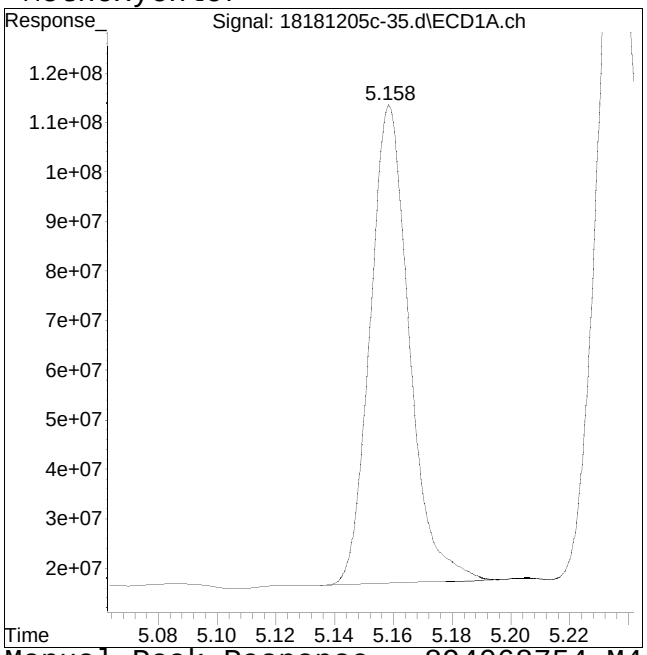
Manual Integration Report

Data Path : I:\Pest18\181205c\
Data File : 18181205c-35.d
Date Inj'd : 12/6/2018 2:01 am
Sample : wg1184846-3,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:sl
Instrument : Pest 18
Quant Date : 12/6/2018 10:38 pm

Compound #23: Methoxychlor





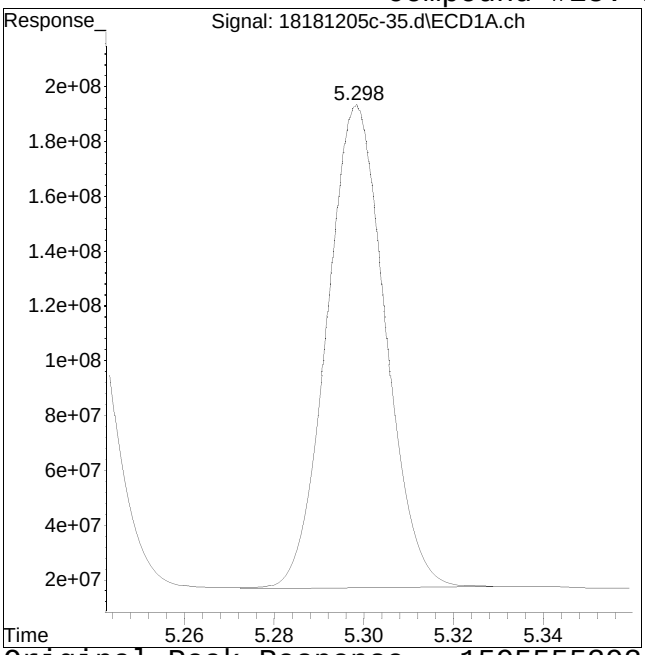
Original Peak Response = 986931931 Manual Peak Response = 894068754 M4
M4 = Poor automated baseline construction.

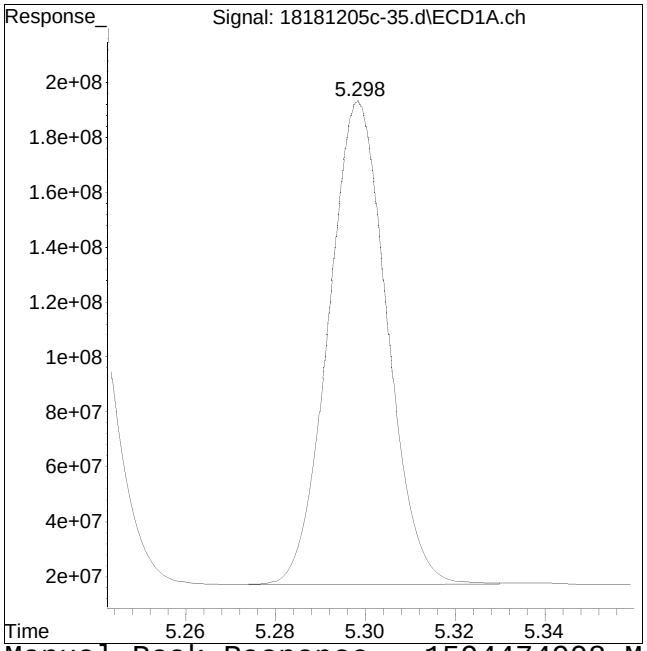
Manual Integration Report

Data Path : I:\Pest18\181205c\
Data File : 18181205c-35.d
Date Inj'd : 12/6/2018 2:01 am
Sample : wg1184846-3,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:sl
Instrument : Pest 18
Quant Date : 12/6/2018 10:38 pm

Compound #25: Endosulfan Sulfate





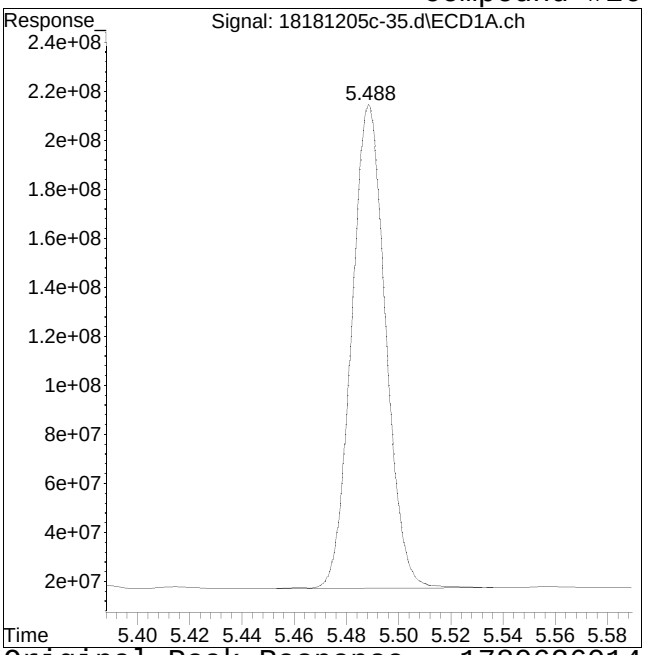
Original Peak Response = 1595555393 Manual Peak Response = 1594474908 M4
M4 = Poor automated baseline construction.

Manual Integration Report

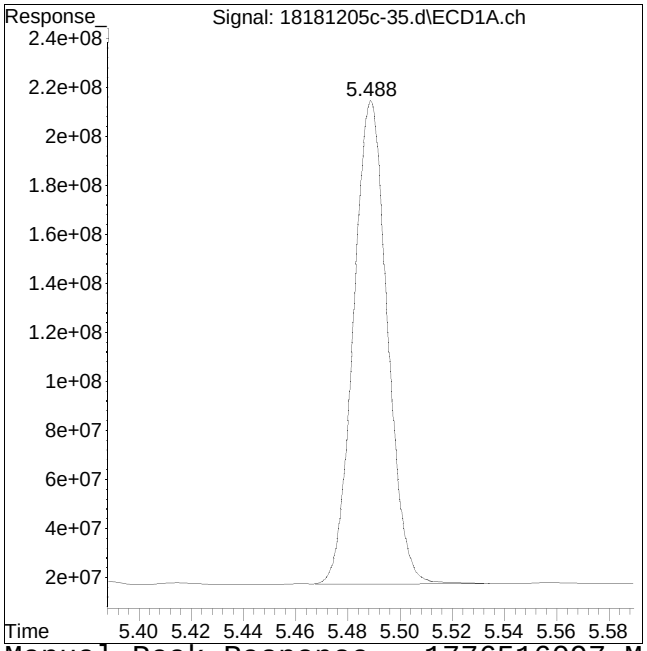
Data Path : I:\Pest18\181205c\
Data File : 18181205c-35.d
Date Inj'd : 12/6/2018 2:01 am
Sample : wg1184846-3,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:sl
Instrument : Pest 18
Quant Date : 12/6/2018 10:38 pm

Compound #26: Endrin Ketone



Original Peak Response = 1780626014



Manual Peak Response = 1776516097 M4

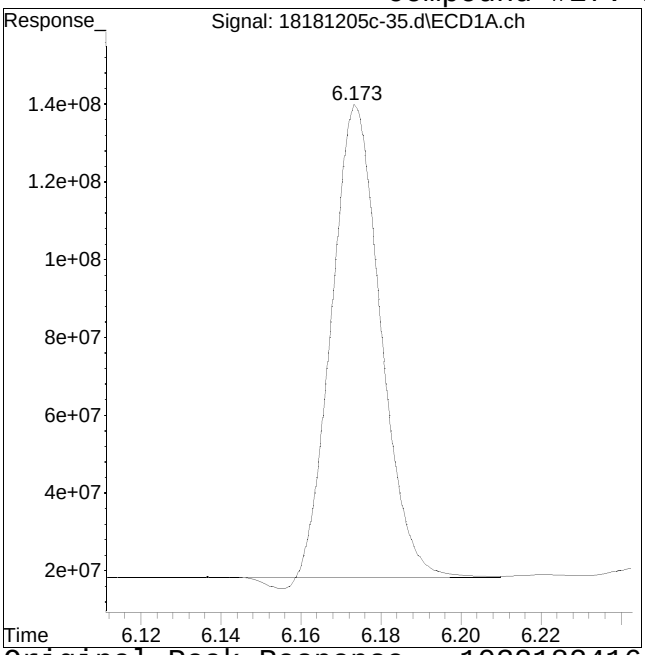
M4 = Poor automated baseline construction.

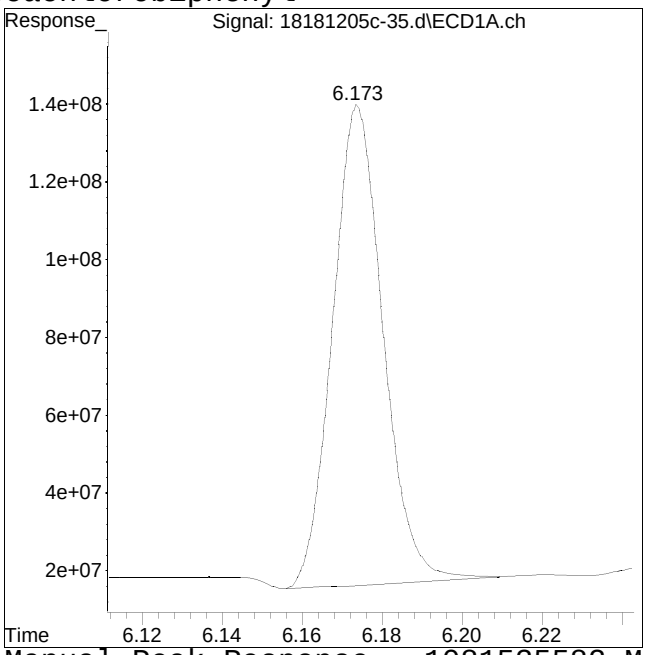
Manual Integration Report

Data Path : I:\Pest18\181205c\
Data File : 18181205c-35.d
Date Inj'd : 12/6/2018 2:01 am
Sample : wg1184846-3,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:sl
Instrument : Pest 18
Quant Date : 12/6/2018 10:38 pm

Compound #27: Decachlorobiphenyl





Original Peak Response = 1032182416 Manual Peak Response = 1081535582 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest18\181205c\
Data File : 18181205c-39.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Dec 2018 2:52 am
Operator : PEST18:bm
Sample : wg1184846-4,42e,,
Misc : wg1186046,wg1184846,Ical15103
ALS Vial : 39 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 07 13:56:32 2018
Quant Method : I:\Pest18\181205c\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Thu Dec 06 22:36:19 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest18\181205c\18181205c-02.d
Sub List : 1_LCS_MS_pest - pest spk

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l	
	Internal Standards							
1) i	1-br-2-nb_Pe	1.744	1.855	724.6E6	773.0E6	25.000M4	25.000M4	
	Standard Area 1 : #1 = 730523937				Recovery =	99.19%		
	Standard Area 1 : #2 = 820983626				Recovery =	94.16%		
	System Monitoring Compounds							
2) s	2,4,5,6-Tetr	2.211	2.437	1180.2E6	1348.6E6	41.525M4	44.325M4	
	Spiked Amount 50.000	Range 30 - 150		Recovery =	83.05%	88.65%		
27) s	Decachlorobi	6.176	6.764	627.0E6	620.9E6	24.126M4	25.264M4	
	Spiked Amount 50.000	Range 30 - 150		Recovery =	48.25%	50.53%		
	Target Compounds							
4)	alpha-BHC	2.569	2.878	1809.5E6	1833.9E6	39.362M4	36.684M4	
6)	beta-BHC	2.847	3.224	689.8E6	678.7E6	37.853M4	33.065M4	
7)	delta-BHC	2.974	3.468	2110.1E6	1417.4E6	49.621M4	30.333M4	
8)	Heptachlor	3.132	3.517	1658.3E6	1724.7E6	42.171M4	39.750M4	
9)	Aldrin	3.361	3.797	1207.6E6	1373.3E6	33.663M4	34.930M4	
15)	4,4'-DDE	4.127	4.671	1538.2E6	1040.5E6	45.036	27.762	D
16)	Endosulfan I	4.159	4.591	1129.4E6	1021.2E6	34.858	29.176	
17)	Dieldrin	4.349	4.801	1601.4E6	1270.9E6	46.218	34.338	
18)	Endrin	4.521	5.027	1108.3E6	1128.8E6	31.456	30.841	
19)	4,4'-DDD	4.587	5.103	992.8E6	891.4E6	32.668	27.273	
20)	Endosulfan I	4.690	5.184	843.6E6	1833.4E6	26.666	55.409	D
21)	4,4'-DDT	4.796	5.327	1048.1E6	2199.9E6	31.413	63.789	D
23)	Methoxychlor	5.159	5.795	587.2E6	621.1E6	35.340M4	36.526M4	
	SemiQuant Compounds - Not Calibrated on this Instrument							

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest18\181205c\
Data File : 18181205c-39.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Dec 2018 2:52 am
Operator : PEST18:bm
Sample : wg1184846-4,42e,,
Misc : wg1186046,wg1184846,Ical15103
ALS Vial : 39 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 07 13:56:32 2018
Quant Method : I:\Pest18\181205c\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Thu Dec 06 22:36:19 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest18\181205c\18181205c-02.d
Sub List : 1_LCS_MS_pest - pest spk

Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

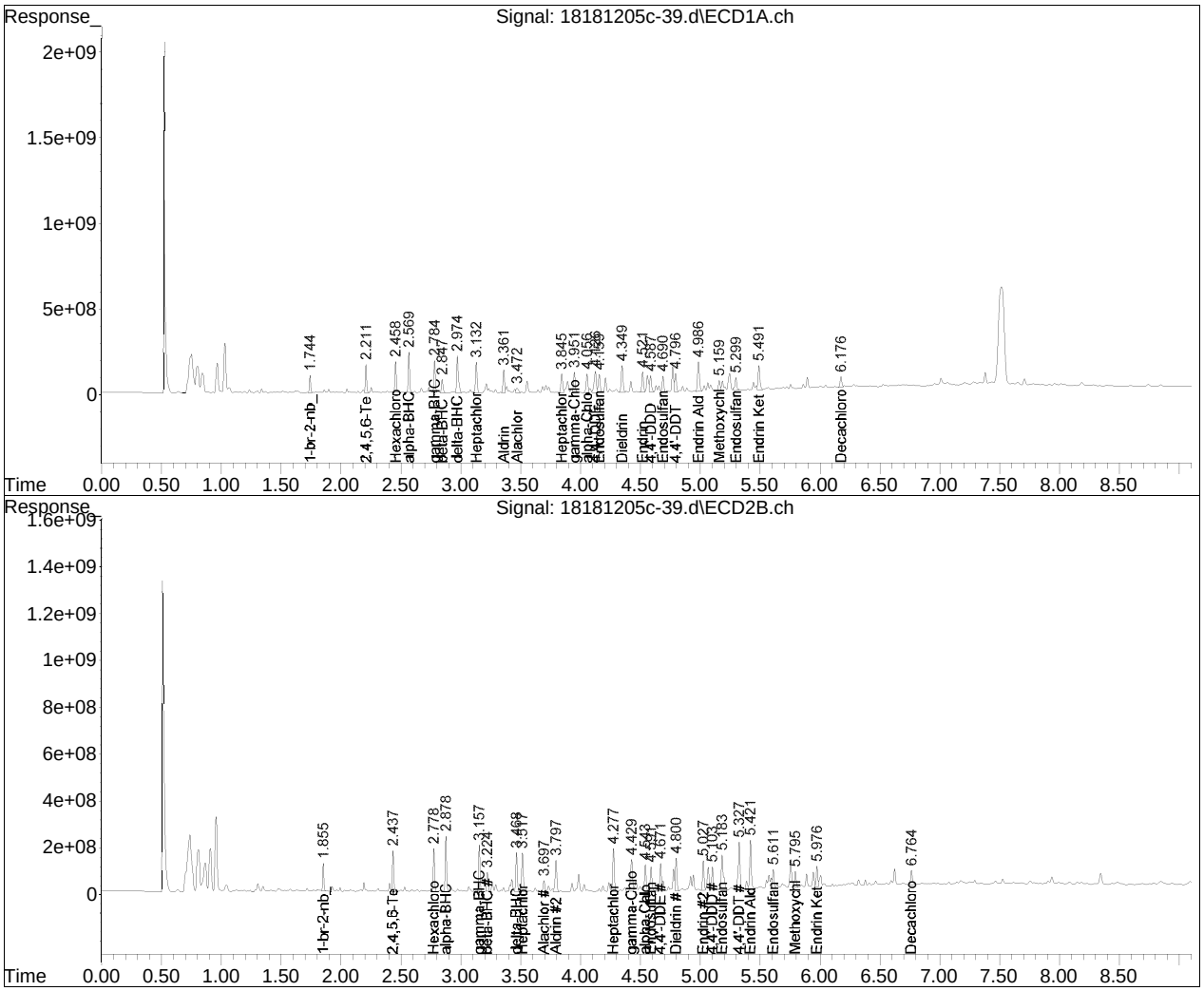
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Sub List : 1_LCS_MS_pest - pest spk181205c-02.d••d)

Data Path : I:\Pest18\181205c\
Data File : 18181205c-39.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Dec 2018 2:52 am
Operator : PEST18:bm
Sample : wg1184846-4,42e,,
Misc : wg1186046,wg1184846,Ical15103
ALS Vial : 39 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 07 13:56:32 2018
Quant Method : I:\Pest18\181205c\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Thu Dec 06 22:36:19 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

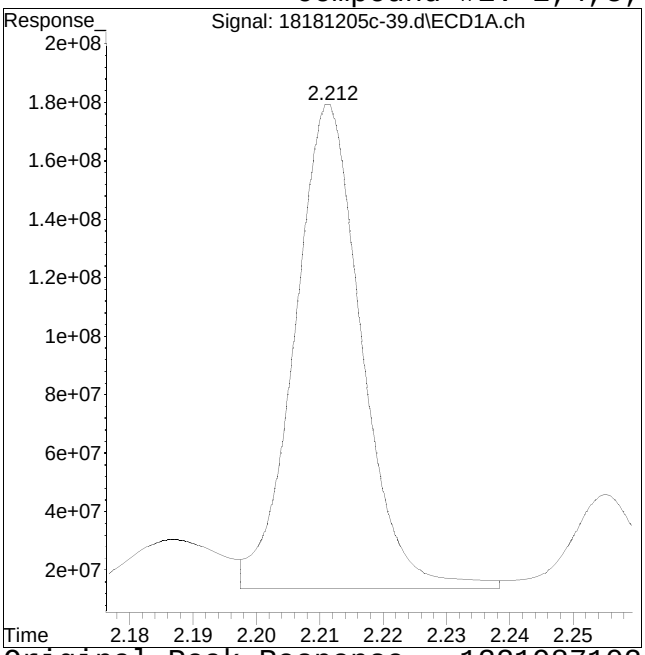


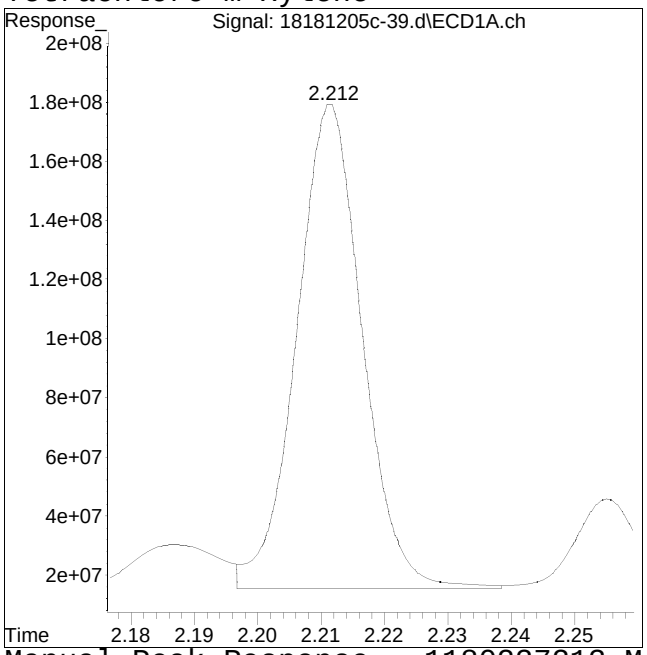
Manual Integration Report

Data Path : I:\Pest18\181205c\
Data File : 18181205c-39.d
Date Inj'd : 12/6/2018 2:52 am
Sample : wg1184846-4,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:bm
Instrument : Pest 18
Quant Date : 12/7/2018 1:50 pm

Compound #2: 2,4,5,6-Tetrachloro-m-xylene





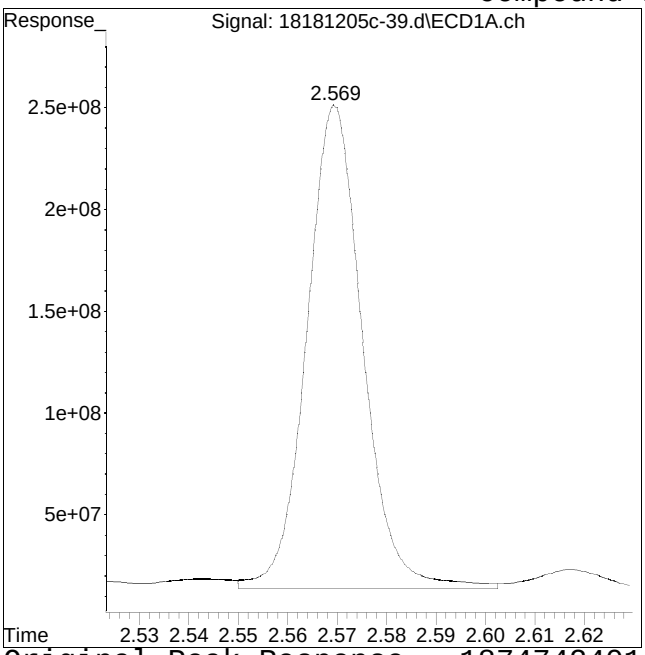
Original Peak Response = 1221987102 Manual Peak Response = 1180237213 M4
M4 = Poor automated baseline construction.

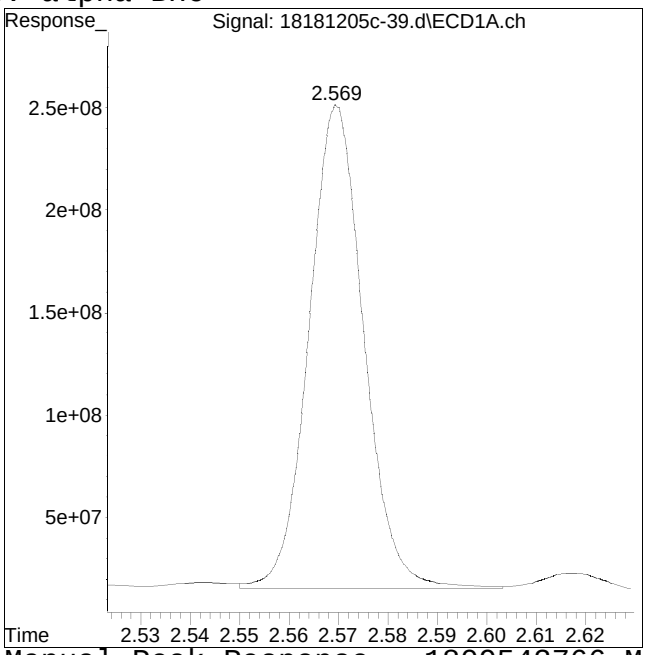
Manual Integration Report

Data Path : I:\Pest18\181205c\
Data File : 18181205c-39.d
Date Inj'd : 12/6/2018 2:52 am
Sample : wg1184846-4,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:bm
Instrument : Pest 18
Quant Date : 12/7/2018 1:50 pm

Compound #4: alpha-BHC





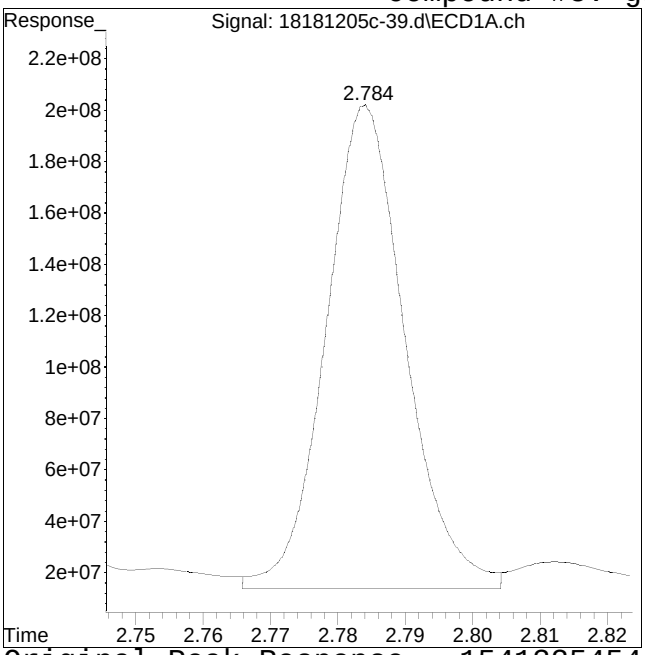
Original Peak Response = 1874742401 Manual Peak Response = 1809543766 M4
M4 = Poor automated baseline construction.

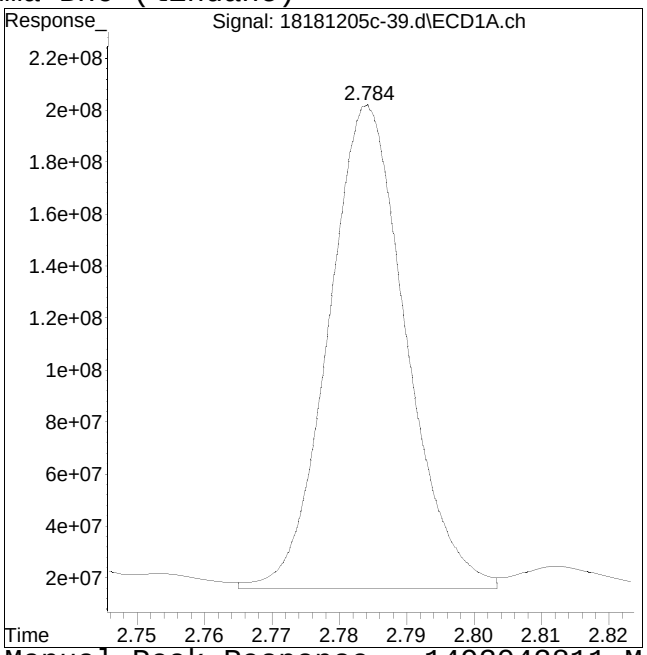
Manual Integration Report

Data Path : I:\Pest18\181205c\
Data File : 18181205c-39.d
Date Inj'd : 12/6/2018 2:52 am
Sample : wg1184846-4,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:bm
Instrument : Pest 18
Quant Date : 12/7/2018 1:50 pm

Compound #5: gamma-BHC (lindane)





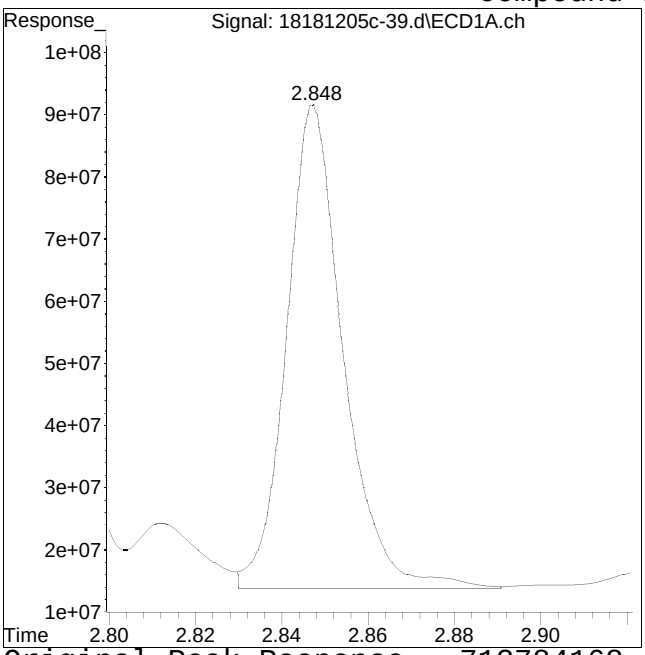
Original Peak Response = 1541325454 Manual Peak Response = 1493043811 M4
M4 = Poor automated baseline construction.

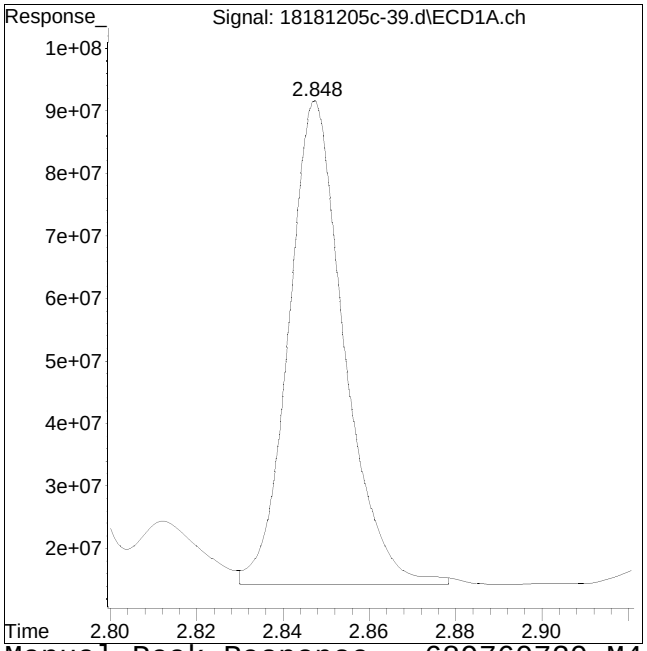
Manual Integration Report

Data Path : I:\Pest18\181205c\
Data File : 18181205c-39.d
Date Inj'd : 12/6/2018 2:52 am
Sample : wg1184846-4,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:bm
Instrument : Pest 18
Quant Date : 12/7/2018 1:50 pm

Compound #6: beta-BHC





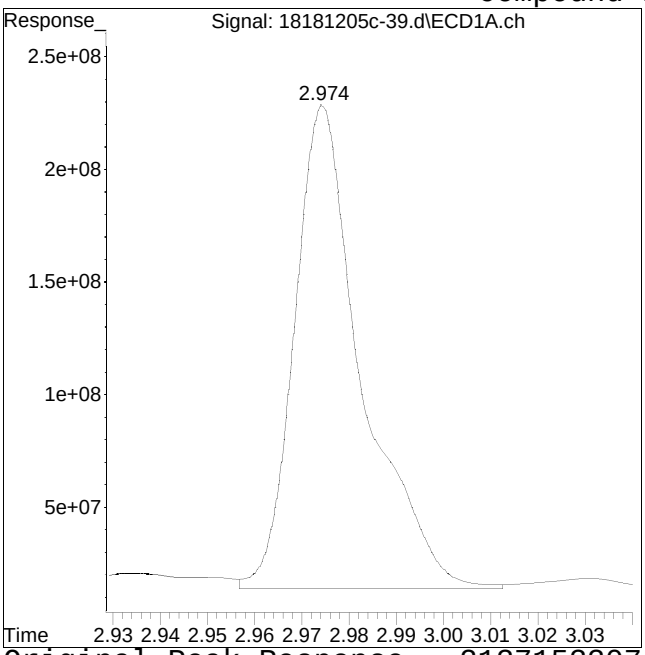
Original Peak Response = 713784168 Manual Peak Response = 689760720 M4
M4 = Poor automated baseline construction.

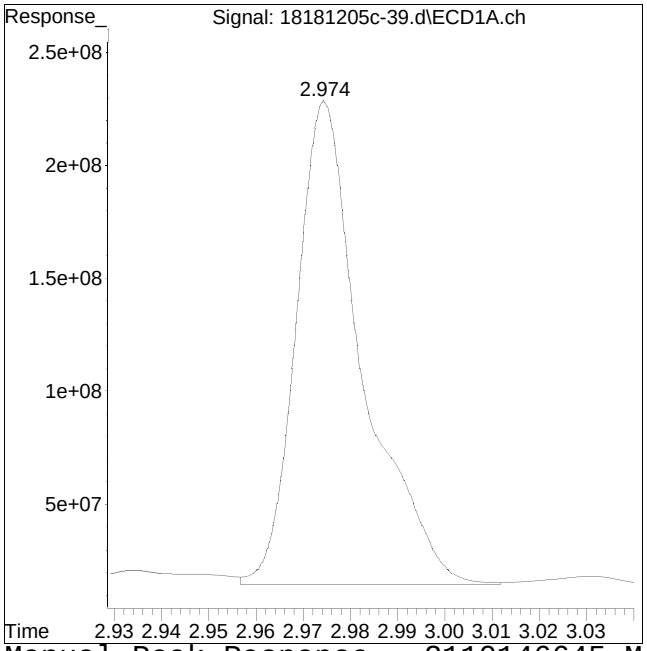
Manual Integration Report

Data Path : I:\Pest18\181205c\
Data File : 18181205c-39.d
Date Inj'd : 12/6/2018 2:52 am
Sample : wg1184846-4,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:bm
Instrument : Pest 18
Quant Date : 12/7/2018 1:50 pm

Compound #7: delta-BHC





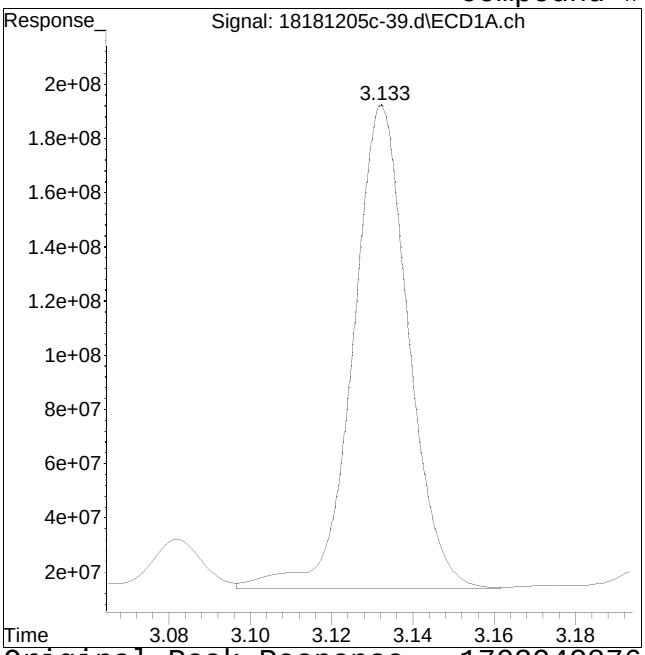
Original Peak Response = 2137153307 Manual Peak Response = 2110146645 M4
M4 = Poor automated baseline construction.

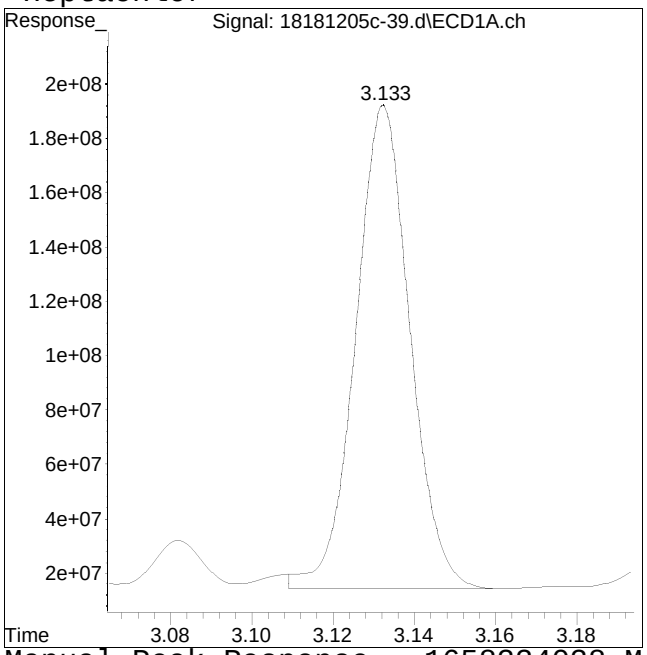
Manual Integration Report

Data Path : I:\Pest18\181205c\
Data File : 18181205c-39.d
Date Inj'd : 12/6/2018 2:52 am
Sample : wg1184846-4,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:bm
Instrument : Pest 18
Quant Date : 12/7/2018 1:50 pm

Compound #8: Heptachlor





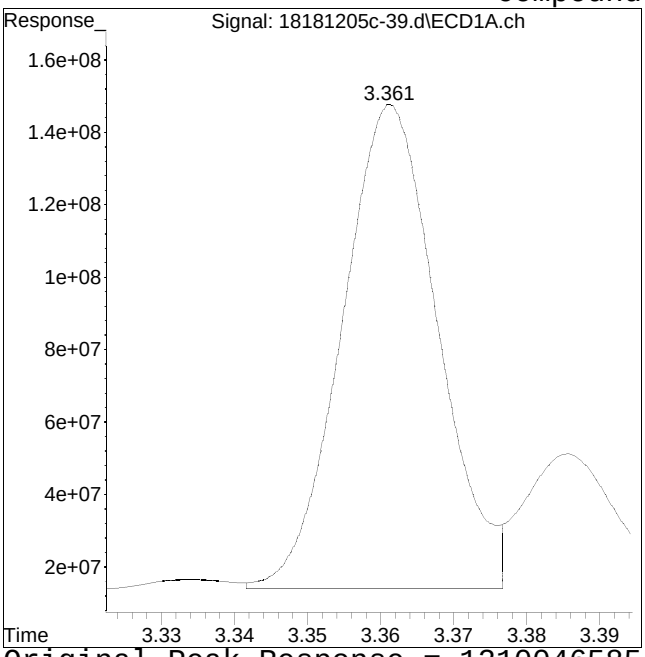
Original Peak Response = 1703942876 Manual Peak Response = 1658334038 M4
M4 = Poor automated baseline construction.

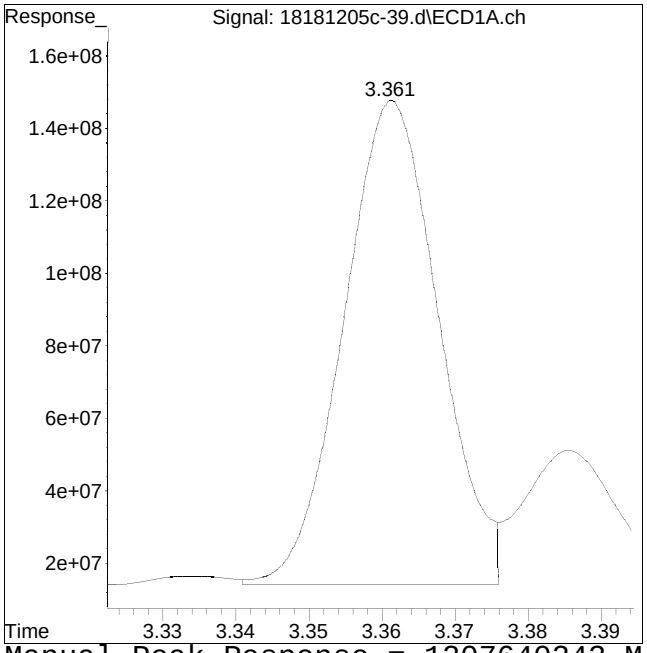
Manual Integration Report

Data Path : I:\Pest18\181205c\
Data File : 18181205c-39.d
Date Inj'd : 12/6/2018 2:52 am
Sample : wg1184846-4,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:bm
Instrument : Pest 18
Quant Date : 12/7/2018 1:50 pm

Compound #9: Aldrin





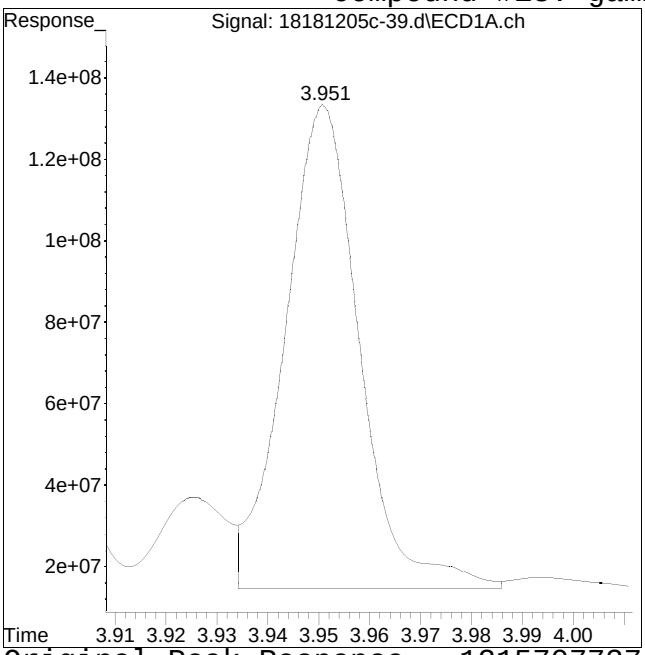
Original Peak Response = 1210046585 Manual Peak Response = 1207640243 M4
M4 = Poor automated baseline construction.

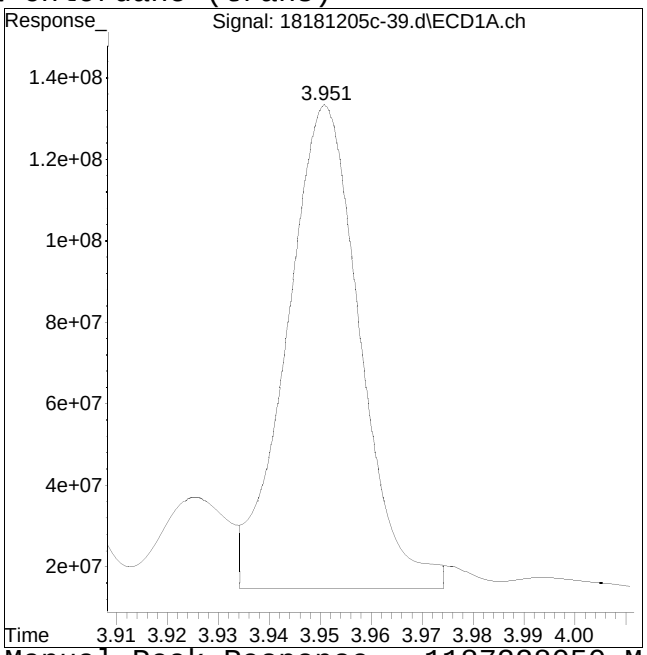
Manual Integration Report

Data Path : I:\Pest18\181205c\
Data File : 18181205c-39.d
Date Inj'd : 12/6/2018 2:52 am
Sample : wg1184846-4,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:bm
Instrument : Pest 18
Quant Date : 12/7/2018 1:50 pm

Compound #13: gamma-Chlordane (trans)





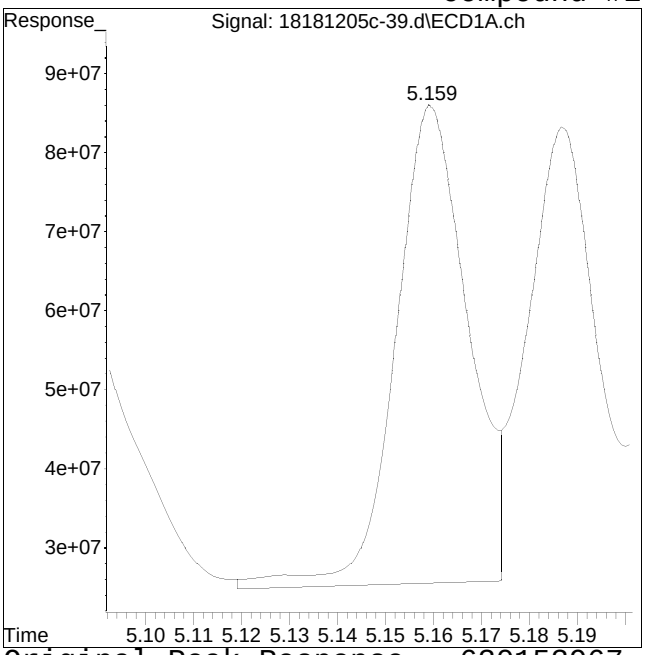
Original Peak Response = 1215707737 Manual Peak Response = 1187228050 M4
M4 = Poor automated baseline construction.

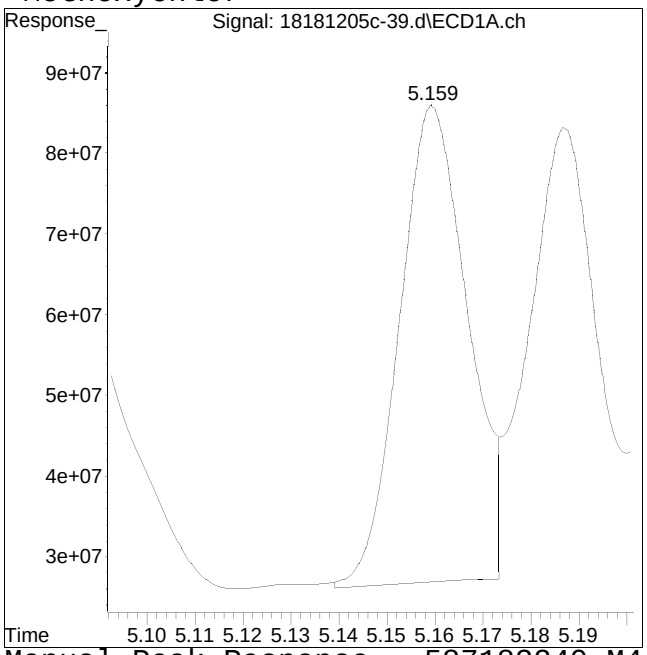
Manual Integration Report

Data Path : I:\Pest18\181205c\
Data File : 18181205c-39.d
Date Inj'd : 12/6/2018 2:52 am
Sample : wg1184846-4,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:bm
Instrument : Pest 18
Quant Date : 12/7/2018 1:50 pm

Compound #23: Methoxychlor





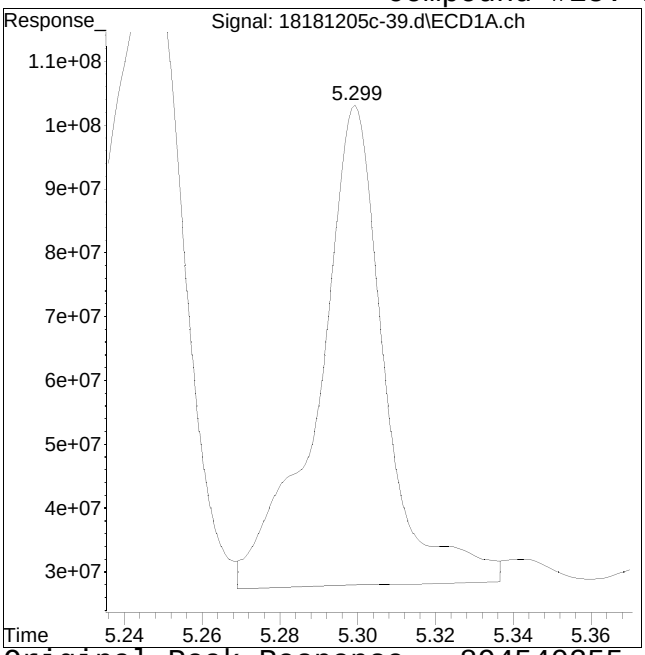
Original Peak Response = 630153967 Manual Peak Response = 587183240 M4
M4 = Poor automated baseline construction.

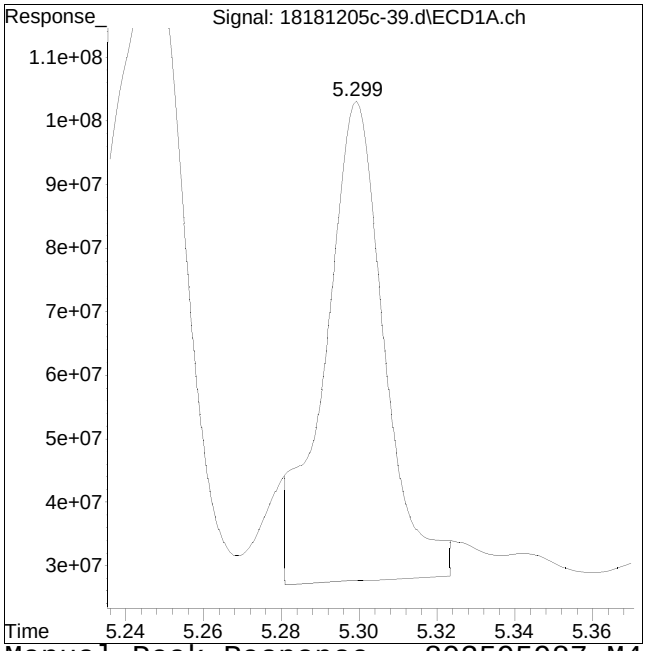
Manual Integration Report

Data Path : I:\Pest18\181205c\
Data File : 18181205c-39.d
Date Inj'd : 12/6/2018 2:52 am
Sample : wg1184846-4,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:bm
Instrument : Pest 18
Quant Date : 12/7/2018 1:50 pm

Compound #25: Endosulfan Sulfate





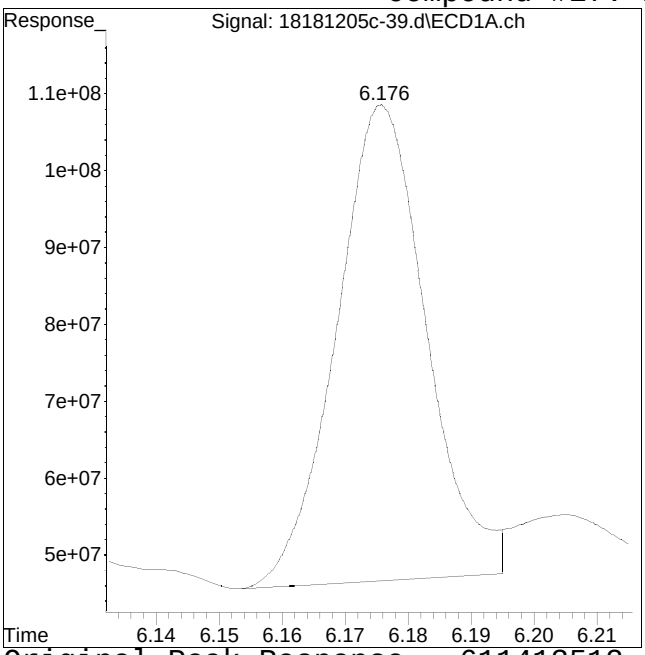
Original Peak Response = 894540355 Manual Peak Response = 803595987 M4
M4 = Poor automated baseline construction.

Manual Integration Report

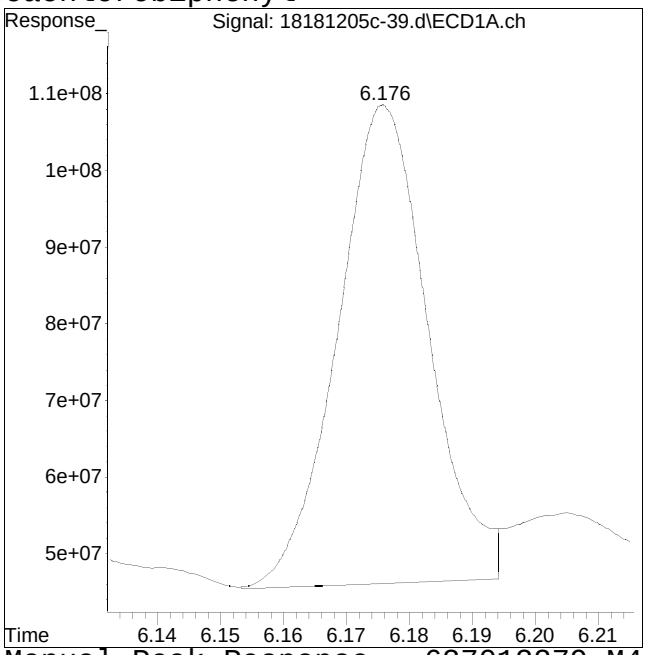
Data Path : I:\Pest18\181205c\
Data File : 18181205c-39.d
Date Inj'd : 12/6/2018 2:52 am
Sample : wg1184846-4,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:bm
Instrument : Pest 18
Quant Date : 12/7/2018 1:50 pm

Compound #27: Decachlorobiphenyl



Original Peak Response = 611413512



Manual Peak Response = 627012279 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest18\181205c\
Data File : 18181205c-40.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Dec 2018 3:05 am
Operator : PEST18:bm
Sample : wg1184846-5,42e,,
Misc : wg1186046,wg1184846,Ical15103
ALS Vial : 40 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 07 14:02:54 2018
Quant Method : I:\Pest18\181205c\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Thu Dec 06 22:36:19 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest18\181205c\18181205c-02.d
Sub List : 1_LCS_MS_pest - pest spk

	Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l	
	Internal Standards							
1) i	1-br-2-nb_Pe	1.746	1.856	695.8E6	739.7E6	25.000M4	25.000M4	
	Standard Area 1 : #1 = 730523937				Recovery =	95.24%		
	Standard Area 1 : #2 = 820983626				Recovery =	90.10%		
	System Monitoring Compounds							
2) s	2,4,5,6-Tetr	2.213	2.438	1088.5E6	1226.9E6	39.858	42.114M4	
	Spiked Amount 50.000	Range 30 - 150			Recovery =	79.72%	84.23%	
27) s	Decachlorobi	6.176	6.763	523.5E6	627.0E6	20.894	26.700	
	Spiked Amount 50.000	Range 30 - 150			Recovery =	41.79%	53.40%	
	Target Compounds							
4)	alpha-BHC	2.570	2.879	1628.9E6	1709.8E6	36.887M4	35.737M4	
6)	beta-BHC	2.848	3.225	649.7E6	638.8E6	37.117M4	32.512M4	
7)	delta-BHC	2.975	3.469	1905.0E6	1391.9E6	46.638M4	31.136	
8)	Heptachlor	3.133	3.518	1490.6E6	1477.1E6	39.430	35.506M4	
9)	Aldrin	3.362	3.798	1085.8E6	1269.2E6	31.493	33.721M4	
15)	4,4'-DDE	4.127	4.672	1347.7E6	958.5E6	41.059	26.714	D
16)	Endosulfan I	4.160	4.591	1019.1E6	962.4E6	32.722	28.727	
17)	Dieldrin	4.350	4.801	1415.4E6	1164.4E6	42.506	32.864	
18)	Endrin	4.522	5.028	1010.9E6	1120.4E6	29.854	32.009	
19)	4,4'-DDD	4.588	5.104	893.4E6	789.2E6	30.593	25.210	
20)	Endosulfan I	4.691	5.184	775.3E6	1603.1E6	25.492	50.579	D
21)	4,4'-DDT	4.797	5.328	926.6E6	1951.4E6	28.890	59.103	D
23)	Methoxychlor	5.160	5.796	470.5E6	616.5E6	29.322	37.921	
	SemiQuant Compounds - Not Calibrated on this Instrument							

(f)=RT Delta > 1/2 Window (D)=Amounts differ by > 40% (m)=manual int.
(#)=Recovery Exceeds Compound Acceptance Limits.
(I,C,F) I=Interference, C=Coelluting Calibration Peak, F=Fails CC Criteria.

Quantitation Report (QT Reviewed)

Data Path : I:\Pest18\181205c\
Data File : 18181205c-40.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Dec 2018 3:05 am
Operator : PEST18:bm
Sample : wg1184846-5,42e,,
Misc : wg1186046,wg1184846,Ical15103
ALS Vial : 40 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 07 14:02:54 2018
Quant Method : I:\Pest18\181205c\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Thu Dec 06 22:36:19 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

CCAL FILE(s) : 1 - I:\Pest18\181205c\18181205c-02.d
Sub List : 1_LCS_MS_pest - pest spk

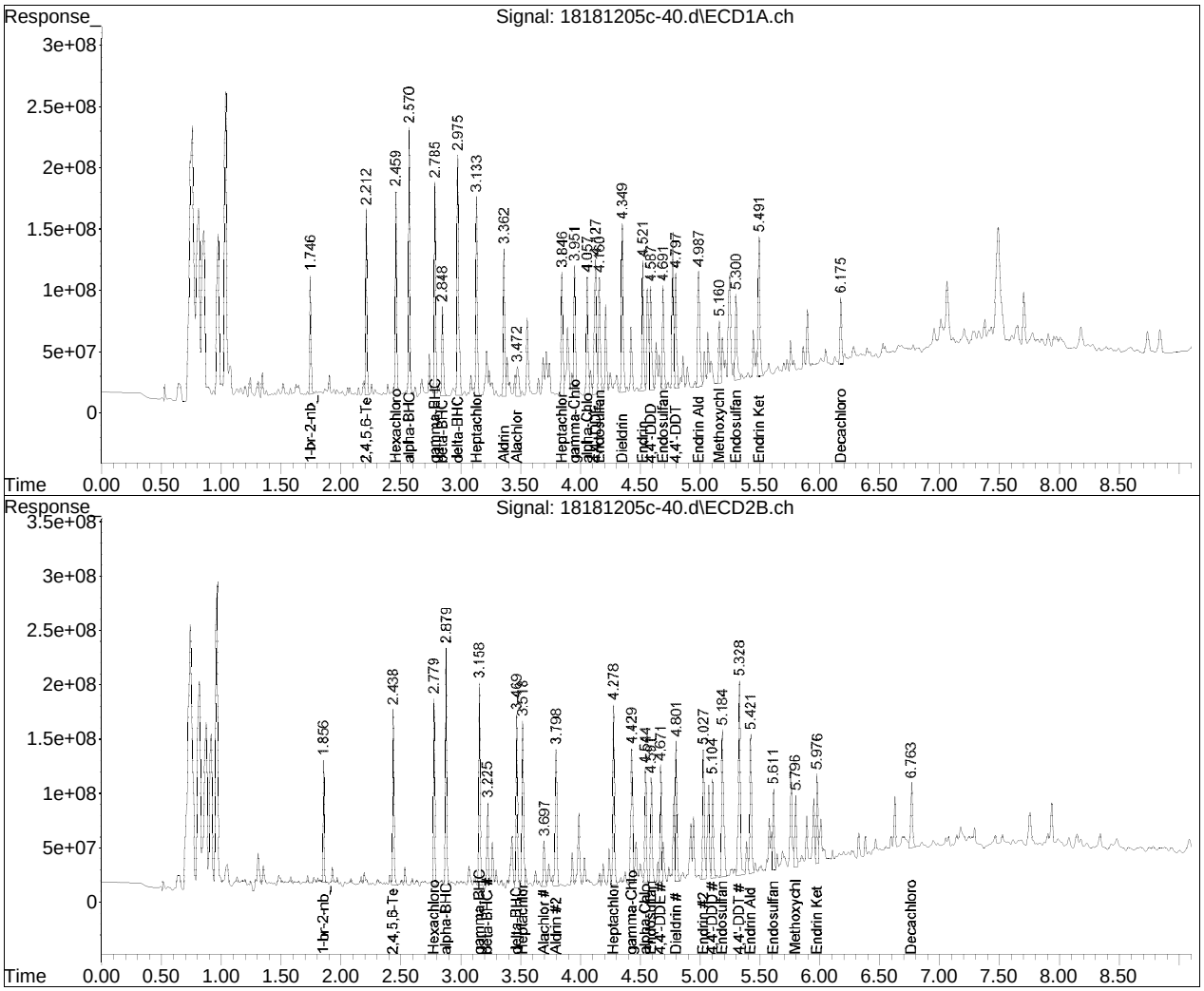
Compound	RT#1	RT#2	Resp#1	Resp#2	ug/l	ug/l

Sub List : 1_LCS_MS_pest - pest spk181205c-02.d••d)

Data Path : I:\Pest18\181205c\
Data File : 18181205c-40.d
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Dec 2018 3:05 am
Operator : PEST18:bm
Sample : wg1184846-5,42e,,
Misc : wg1186046,wg1184846,Ical15103
ALS Vial : 40 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Dec 07 14:02:54 2018
Quant Method : I:\Pest18\181205c\pest18_09_19_18_15103.m
Quant Title : pest
QLast Update : Thu Dec 06 22:36:19 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

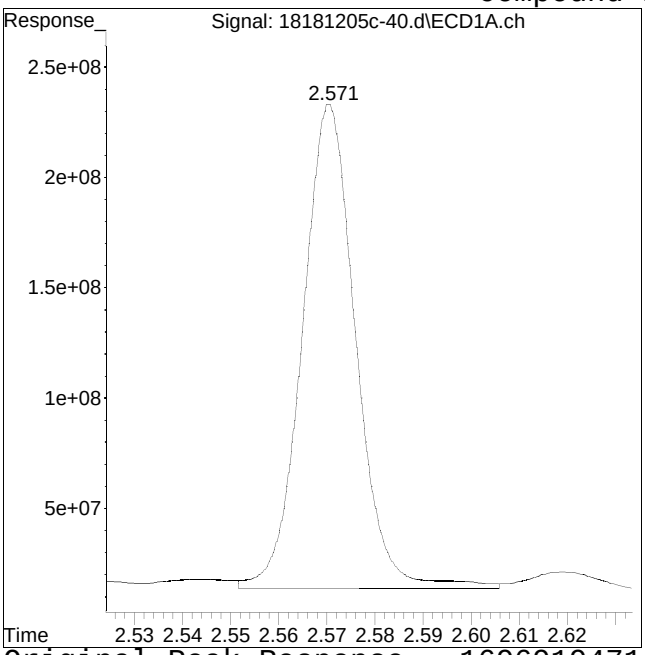


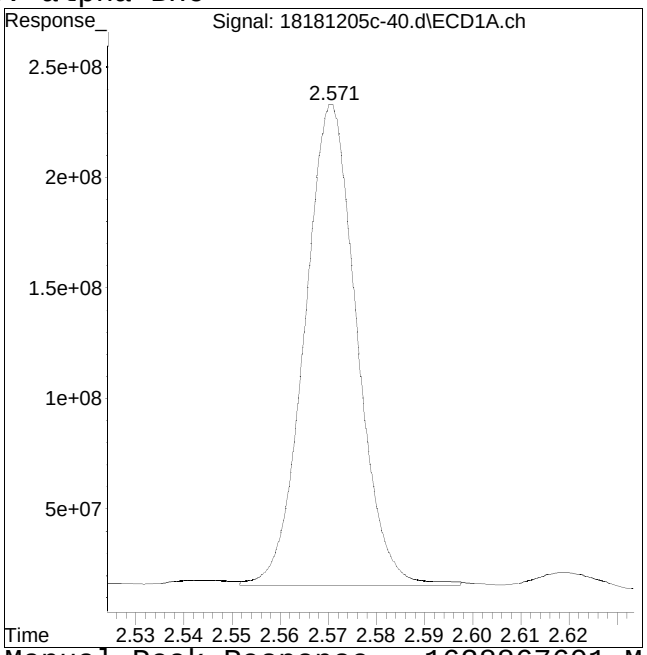
Manual Integration Report

Data Path : I:\Pest18\181205c\
Data File : 18181205c-40.d
Date Inj'd : 12/6/2018 3:05 am
Sample : wg1184846-5,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:bm
Instrument : Pest 18
Quant Date : 12/6/2018 10:38 pm

Compound #4: alpha-BHC





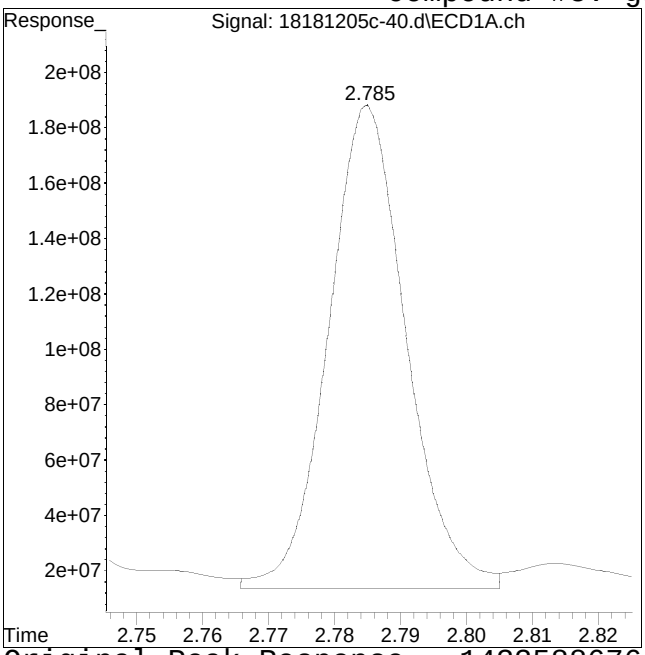
Original Peak Response = 1696919471 Manual Peak Response = 1628867601 M4
M4 = Poor automated baseline construction.

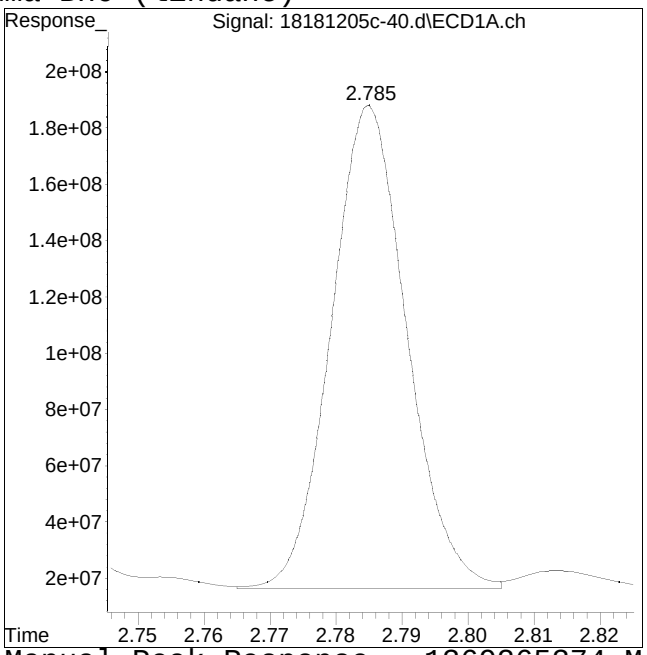
Manual Integration Report

Data Path : I:\Pest18\181205c\
Data File : 18181205c-40.d
Date Inj'd : 12/6/2018 3:05 am
Sample : wg1184846-5,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:bm
Instrument : Pest 18
Quant Date : 12/6/2018 10:38 pm

Compound #5: gamma-BHC (lindane)





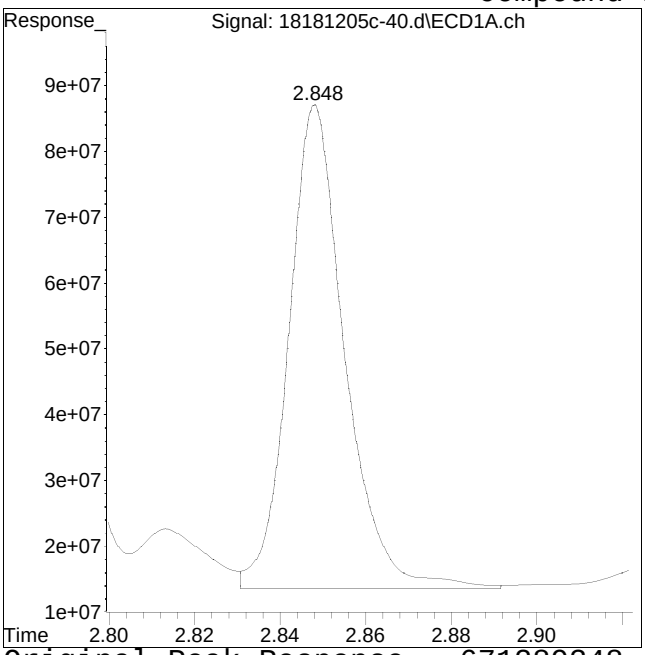
Original Peak Response = 1433588676 Manual Peak Response = 1369265374 M4
M4 = Poor automated baseline construction.

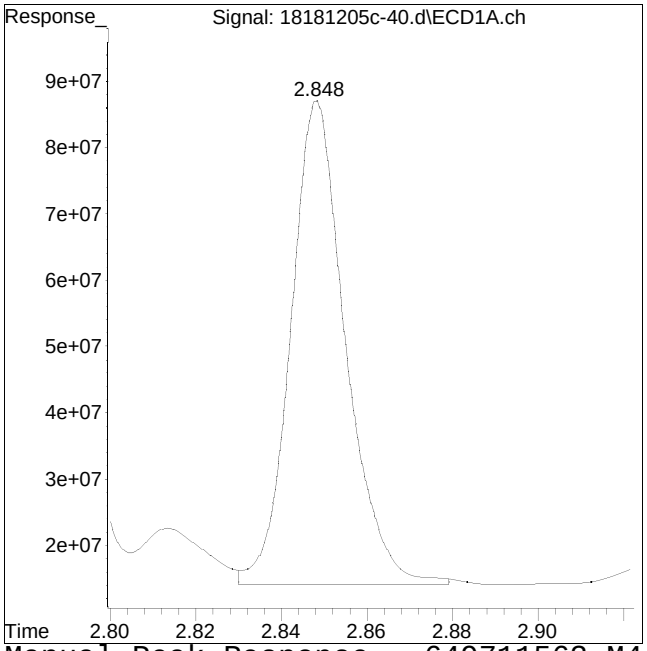
Manual Integration Report

Data Path : I:\Pest18\181205c\
Data File : 18181205c-40.d
Date Inj'd : 12/6/2018 3:05 am
Sample : wg1184846-5,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:bm
Instrument : Pest 18
Quant Date : 12/6/2018 10:38 pm

Compound #6: beta-BHC





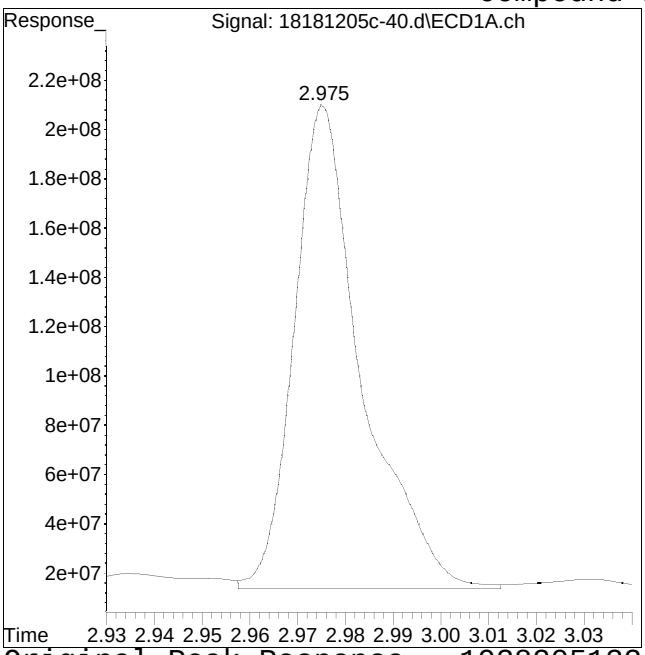
Original Peak Response = 671289348 Manual Peak Response = 649711563 M4
M4 = Poor automated baseline construction.

Manual Integration Report

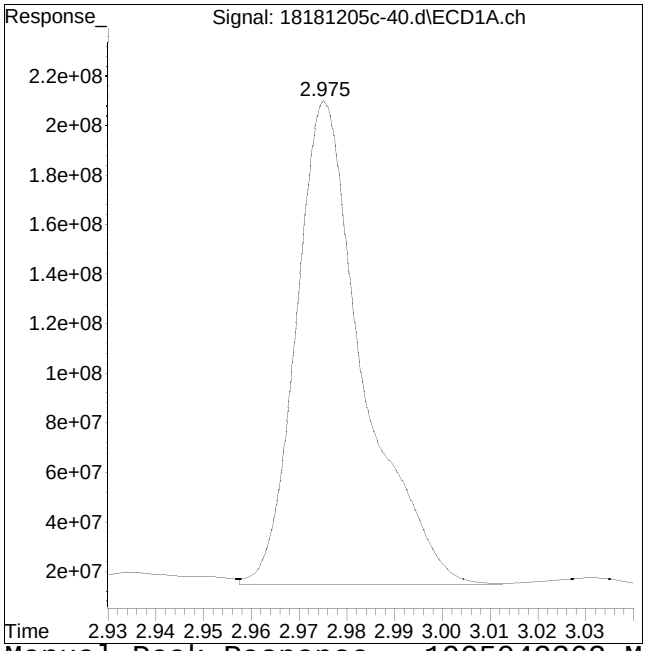
Data Path : I:\Pest18\181205c\
Data File : 18181205c-40.d
Date Inj'd : 12/6/2018 3:05 am
Sample : wg1184846-5,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:bm
Instrument : Pest 18
Quant Date : 12/6/2018 10:38 pm

Compound #7: delta-BHC



Original Peak Response = 1938205133



Manual Peak Response = 1905042363 M4

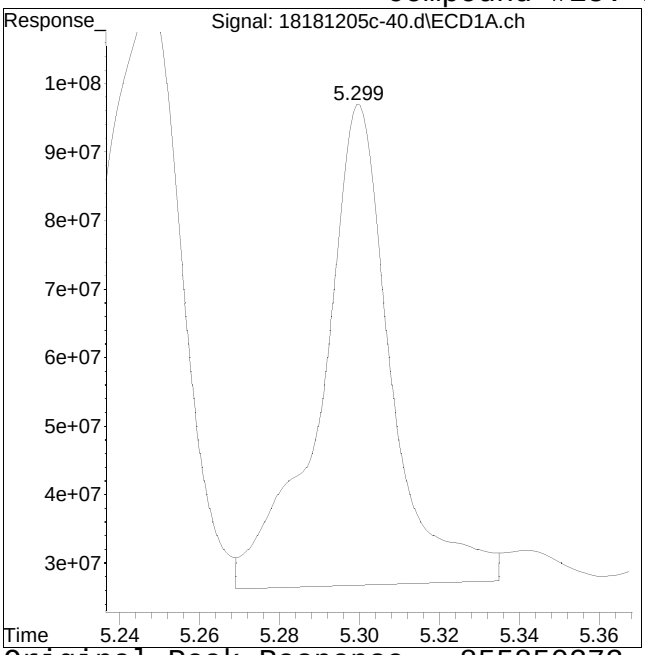
M4 = Poor automated baseline construction.

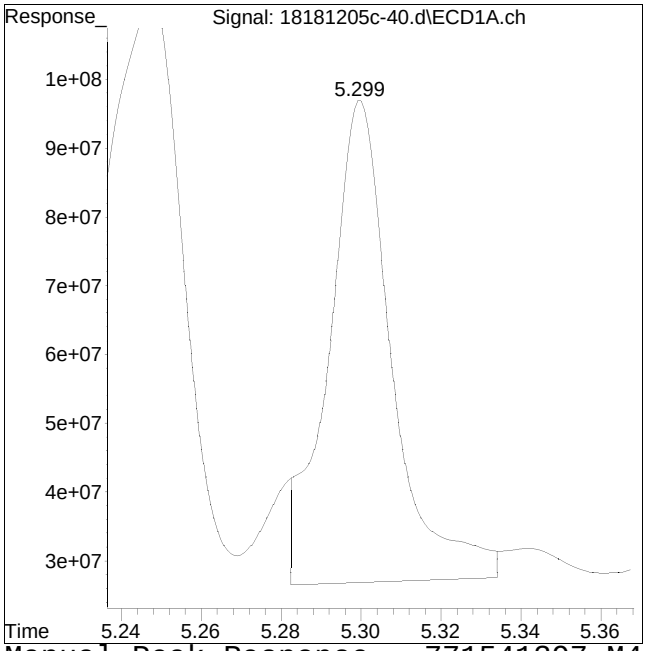
Manual Integration Report

Data Path : I:\Pest18\181205c\
Data File : 18181205c-40.d
Date Inj'd : 12/6/2018 3:05 am
Sample : wg1184846-5,42e,,

QMethod : pest18_09_19_18_15103.m
Operator : PEST18:bm
Instrument : Pest 18
Quant Date : 12/6/2018 10:38 pm

Compound #25: Endosulfan Sulfate





Original Peak Response = 855850373 Manual Peak Response = 771541397 M4
M4 = Poor automated baseline construction.

Calculation of PCB Aroclors & Pesticides

Aqueous Concentration Formula:
Amt * DF*(Vt/Vp)*(1000/Vo)*(Ve/1000)

Where:
DF = Dilution Factor
Vt = Extract Final Volume (mL)
Vp = Aliquot Cleaned (mL)
Vo = Volume of Sample (mL)
Ve = Extraction Lab Final Volume (mL)

Soil Concentration Formula:
Amt * DF * (Vt/Vp)*(1000/Wt)*(Ve/1000)* (100/TS)

Where:
DF = Dilution Factor
Vt = Extract Final Volume (mL)
Vp = Aliquot Cleaned (mL)
Wt = Weight of Sample (g)
Ve = Extraction Lab Final Volume (mL)
TS = Total Solids

Analysis log File

Total Files Reported in Log : 28
Log Generated From Directory: I:\Pest18\180919ical\

No.	DATA FILE	SAMPLE NAME	MISC	DATE INJ'D	
1	18180919i-01.d	pem1818091901ical,42ee,,deg ..	wg1162772,ical	9/19/2018	5:58 p
2	18180919i-02.d	il1pest,42e,,pp8813	wg1162772,ical	9/19/2018	6:11 p
3	18180919i-03.d	il2pest,42e,,pp8814	wg1162772,ical	9/19/2018	6:24 p
4	18180919i-04.d	il3pest,42e,,pp8815	wg1162772,ical	9/19/2018	6:36 p
5	18180919i-05.d	il4pest,42e,,pp8816	wg1162772,ical	9/19/2018	6:49 p
6	18180919i-06.d	il5pest,42e,,pp8817	wg1162772,ical	9/19/2018	7:01 p
7	18180919i-07.d	il6pest,42e,,pp8818	wg1162772,ical	9/19/2018	7:14 p
8	18180919i-08.d	il7pest,42e,,pp8819	wg1162772,ical	9/19/2018	7:27 p
9	18180919i-09.d	il8pest,42e,,pp8820	wg1162772,ical	9/19/2018	7:39 p
10	18180919i-10.d	il9pest,42e,,pp8821	wg1162772,ical	9/19/2018	7:52 p
11	18180919i-11.d	il10pest,42e,,pp8822	wg1162772,ical	9/19/2018	8:05 p
12	18180919i-12.d	cicvpest,42e,,pp8866	wg1162772,ical	9/19/2018	8:17 p
13	18180919i-13.d	il1chlor,42e,,pp8789	wg1162772,ical	9/19/2018	8:30 p
14	18180919i-14.d	il2chlor,42e,,pp8790	wg1162772,ical	9/19/2018	8:43 p
15	18180919i-15.d	il3chlor,42e,,pp8791	wg1162772,ical	9/19/2018	8:55 p
16	18180919i-16.d	il4chlor,42e,,pp8792	wg1162772,ical	9/19/2018	9:08 p
17	18180919i-17.d	il5chlor,42e,,pp8793	wg1162772,ical	9/19/2018	9:21 p
18	18180919i-18.d	il6chlor,42e,,pp8794	wg1162772,ical	9/19/2018	9:33 p
19	18180919i-19.d	il7chlor,42e,,pp8795	wg1162772,ical	9/19/2018	9:46 p
20	18180919i-20.d	il8chlor,42e,,pp8796	wg1162772,ical	9/19/2018	9:59 p
21	18180919i-21.d	il9chlor,42e,,pp8797	wg1162772,ical	9/19/2018	10:11 p
22	18180919i-22.d	cicvchlor,42e,,pp8878	wg1162772,ical	9/19/2018	10:24 p
23	18180919i-23.d	il7tox,42e,,pp8392	ical	9/19/2018	10:37 p
24	18180919i-24.d	cicvtox,42e,,pp8877	ical	9/19/2018	10:49 p
25	18180927i-01.d	hex	ical	9/27/2018	6:00 p
26	18180927i-02.d	pem18180919ical02,42e,,deg p..	wg1162772,ical	9/27/2018	6:13 p
27	18180927i-03.d	il7tox,42e,,pp8928	wg1162772,ical	9/27/2018	6:26 p
28	18180927i-04.d	cicvtox,42e,,pp8684	wg1162772,ical	9/27/2018	6:38 p

SeqLog 1.0 - (c) 2009 Abacus Database Applications

Dep.: PEST
Inst: Pest_18
Date: **12/06/18**
Run: **a**

Method
GC: pest

Seq: wg1186320

Vial	Data File	Sample	CCAL	notes	initials
1	18181206a-01	deg pp8910			
2	18181206a-02	pest icv 8985			
3	18181206a-03	chlor icv 8983			
4	18181206a-04	tox icv 9034			
5	18181206a-05	instrument blank			
6	18181206a-06	l1849060-02,42e,,			
7	18181206a-07	l1849060-04,42e,,			
8	18181206a-08	l1849060-05,42e,,			
9	18181206a-09	l1849060-06,42e,,			
10	18181206a-10	l1848679-04d,42e,5,s			
11	18181206a-11	l1848959-02,42e,,			
12	18181206a-12	l1848959-04,42e,,			
13	18181206a-13	l1848959-06,42e,,			
14	18181206a-14	l1848959-08,42e,,			
15	18181206a-15	wg1185454-1,42e,,ppm			
16	18181206a-16	wg1185454-2,42e,,ppm			
17	18181206a-17	wg1185454-3,42e,,ppm			
18	18181206a-18	l1848888-08d,42e,5,dde ddt			
19	18181206a-19	l1848888-09d,42e,5,dde ddt			
20	18181206a-20	l1848888-10d,42e,5,dde ddt			
21	18181206a-21	l1849147-01,42e,,ppm			
22	18181206a-22	l1849147-03,42e,,ppm			

Dep.: PEST
Inst: Pest_18
Date: **12/05/18**
Run: **c**

Method
GC: pest

Seq: wg1186046

Vial	Data File	Sample	CCAL	notes	initials
1	18181205c-01	deg pp8910			
2	18181205c-02	pest icv 8985			
3	18181205c-03	chlor icv 8983			
4	18181205c-04	tox icv 9034			
5	18181205c-05	IB			
6	18181205c-06	wg1184891-1,42e,,			
7	18181205c-07	wg1184891-2,42e,,			
8	18181205c-08	wg1184891-3,42e,,			
9	18181205c-09	l1800013-322,42e,,			
10	18181205c-10	wg1184891-4,42e,,			
11	18181205c-11	wg1184891-5,42e,,			
12	18181205c-12	l1848948-01,42e,,			
13	18181205c-13	wg1185591-1,42e,,			
14	18181205c-14	wg1185591-2,42e,,			
15	18181205c-15	wg1185591-3,42e,,			
16	18181205c-16	l1800013-323,42e,,			
17	18181205c-17	wg1185591-4,42e,,			
18	18181205c-18	wg1185591-5,42e,,			
19	18181205c-19	l1849326-01,42e,,			
20	18181205c-20	wg1185641-1,42e,, t			
21	18181205c-21	l1849028-01,42e,, t			
22	18181205c-22	wg1184892-1,42e,, t			
23	18181205c-23	wg1185641-2,42e,, t			
24	18181205c-24	wg1185641-3,42e,, t			
25	18181205c-25	pest icv 8985			
26	18181205c-26	wg1184892-2,42e,, t			
27	18181205c-27	wg1184892-3,42e,, t			
28	18181205c-28	l1849008-02,42e,,			
29	18181205c-29	l1848723-01d,42e,50, m/s			
30	18181205c-30	l1848723-02d,42e,50, m/s			
31	18181205c-31	l1848723-03d,42e,10, m/s			
32	18181205c-32	l1849030-01d,42e,20, m/s			
33	18181205c-33	wg1184846-1,42e,,			
34	18181205c-34	wg1184846-2,42e,,			
35	18181205c-35	wg1184846-3,42e,,			
36	18181205c-36	l1849049-01,42e,,			

Dep.: PEST
Inst: Pest_18
Date: **12/05/18**
Run: **c**

Method
GC: pest

Seq: wg1186046

Vial	Data File	Sample	CCAL	notes	initials
37	18181205c-37	I1849049-02,42e,,			
38	18181205c-38	I1849060-03,42e,,			
39	18181205c-39	wg1184846-4,42e,,			
40	18181205c-40	wg1184846-5,42e,,			
41	18181205c-41	I1849143-01,42e,,			
42	18181205c-42	wg1184846-6,42e,,			
43	18181205c-43	wg1184846-7,42e,,			

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Dec 09 2018, 12:57 pm

Work Group: WG1184846 for Department: 2 Organic Preparation

Created: 02-DEC-18 Due: Operator: CW

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L1849049-01	SODRUM_113018	S	NYTCL-8081	SOIL	DONE	U	1214	1221	S0	Glass-A.25
L1849049-02	SODRUM_PI_113018	S	NYTCL-8081	SOIL	DONE	U	1214	1221	S0	Glass-A.25
L1849060-02	CB-02	S	NYTCL-8081	SOIL	DONE	U	1214	1207	S0	Glass-A.25
L1849060-03	CB-03	S	NYTCL-8081	SOIL	DONE	U	1214	1207	S0	Glass-A.25
L1849060-04	CB-04	S	NYTCL-8081	SOIL	DONE	U	1214	1207	S0	Glass-A.25
L1849060-05	CB-01	S	NYTCL-8081	SOIL	DONE	U	1214	1207	S0	Glass-A.25
L1849060-06	DUP-18	S	NYTCL-8081	SOIL	DONE	U	1214	1207	S0	Glass-A.25
L1849143-01	S-102 (0"-6")	S	NYTCL-8081	SOIL	DONE	U	1214	1207	S0	Glass-A.25
L1849143-02	S-102 (6"-12")	S	NYTCL-8081	SOIL	DONE	U	1214	1207	S0	Glass-A.25
L1849143-03	S-102 (12"-24")	S	NYTCL-8081	SOIL	DONE	U	1214	1207	S0	Glass-A.25
L1849143-04	S-101 (0"-6")	S	NYTCL-8081	SOIL	DONE	U	1214	1207	S0	Glass-A.25
L1849143-05	S-101 (6"-12")	S	NYTCL-8081	SOIL	DONE	U	1214	1207	S0	Glass-A.25
L1849143-06	S-101 (12"-24")	S	NYTCL-8081	SOIL	DONE	U	1214	1207	S0	Glass-A.25
L1849143-07	S-103 (0"-6")	S	NYTCL-8081	SOIL	DONE	U	1214	1207	S0	Glass-A.25
L1849143-08	S-103 (6"-12")	S	NYTCL-8081	SOIL	DONE	U	1214	1207	S0	Glass-A.25
L1849143-09	S-103 (12"-24")	S	NYTCL-8081	SOIL	DONE	U	1214	1207	S0	Glass-A.25
L1849143-10	S-102 (10'-15')	S	NYTCL-8081	SOIL	DONE	U	1214	1207	S0	Glass-A.25
L1849143-12	S-102 (20'-25')	S	NYTCL-8081	SOIL	DONE	U	1214	1207	S0	Glass-A.25
L1849143-13	S-102 (25'-30')	S	NYTCL-8081	SOIL	DONE	U	1214	1207	S0	Glass-A.25
L1849143-16	S-104 (12"-24")	S	NYTCL-8081	SOIL	DONE	U	1214	1207	S0	Glass-A.25
WG1184846-1	Laboratory Method Bl	S	NYTCL-8081	SOIL	DONE	U				
WG1184846-2	Laboratory Control S	S	NYTCL-8081	SOIL	DONE	U				
WG1184846-3	LCS Duplicate	S	NYTCL-8081	SOIL	DONE	U				
WG1184846-4	Matrix Spike	S	NYTCL-8081	SOIL	DONE	U				
WG1184846-5	Matrix Spike Duplica	S	NYTCL-8081	SOIL	DONE	U				
WG1184846-6	Matrix Spike	S	NYTCL-8081	SOIL	DONE	U				
WG1184846-7	Matrix Spike Duplica	S	NYTCL-8081	SOIL	DONE	U				

Comments:

WG1184846-3	WG1184846-2
WG1184846-4	L1849060-03
WG1184846-5	L1849060-03
WG1184846-6	L1849143-01
WG1184846-7	L1849143-01

ORGANIC ELN REPORT

Workgroup: WG1184846

Prep Method: EPA 3546
Solvent Type: DCM/Acetone **Lot #:** AD113018
Surrogate Type: Pesticide/PCB **Lot #:** PP8981
Spike Type: Pesticide **Lot #:** PP8932
Spike Verify by: CW
Lims Spikelot: PEST_1107

Additional Reagents/Stds

Na2SO4	0000206268

Conc.Method: S-EVAP/N-EVAP
Solvent Type: Hexane
Lot #: dv071

Additional Reagents/Stds

Cleanup 1

Cleanup Method 1: EPA 3620B
Cleanup Method 2:
Solvent Type: 9:1 Hexane/Acetone **Lot #:** 9HA11918

Additional Reagents/Stds

Florisil	6291948

Sample/ Type	Extraction								Concentration			
	Extract Date	Analyst	Sample Weight g	Balance Id	Surr Amt ml	Spike Amt ml	Extract Unit Id	Stop Date/Time	Conc Date	Analyst	Final Vol ml	Conc Unit
L1849049-01 SOIL	12/02/18 21:07	Colleen Walsh	15.12	#36	.25		MW #7	N/A	12/03/18 05:53	Olufemi Olujimi	10	E/G#2
L1849049-02 SOIL	12/02/18 21:07	Colleen Walsh	15.70	#36	.25		MW #7	N/A	12/03/18 05:53	Olufemi Olujimi	10	E/G#2
L1849060-02 SAMP	12/02/18 21:07	Colleen Walsh	15.33	#36	.25		MW #7	N/A	12/03/18 05:53	Olufemi Olujimi	10	E/G#2
L1849060-03 SAMP	12/02/18 21:07	Colleen Walsh	5.65	#36	.25		MW #7	N/A	12/03/18 05:53	Olufemi Olujimi	10	E/G#2
	5g due to matrix											
L1849060-04 SAMP	12/02/18 21:07	Colleen Walsh	15.87	#36	.25		MW #7	N/A	12/03/18 05:53	Olufemi Olujimi	10	E/G#2
L1849060-05 SAMP	12/02/18 21:07	Colleen Walsh	15.14	#36	.25		MW #7	N/A	12/03/18 05:53	Olufemi Olujimi	10	E/G#2
L1849060-06 SAMP	12/02/18 21:07	Colleen Walsh	5.99	#36	.25		MW #7	N/A	12/03/18 05:53	Olufemi Olujimi	10	E/G#2
	5g due to matrix											

ORGANIC ELN REPORT

Workgroup: WG1184846

Sample/ Type	Extraction								Concentration			
	Extract Date	Analyst	Sample Weight g	Balance Id	Surr Amt ml	Spike Amt ml	Extract Unit Id	Stop Date/Time	Conc Date	Analyst	Final Vol ml	Conc Unit
L1849143-01 SOIL	12/02/18 21:07	Colleen Walsh	15.54	#36	.25		MW #7	N/A	12/03/18 05:53	Olufemi Olujimi	10	E/G#2
L1849143-02 SOIL	12/02/18 21:07	Colleen Walsh	15.30	#36	.25		MW #7	N/A	12/03/18 05:53	Olufemi Olujimi	10	E/G#2
L1849143-03 SOIL	12/02/18 21:07	Colleen Walsh	15.55	#36	.25		MW #7	N/A	12/03/18 05:53	Olufemi Olujimi	10	E/G#2
L1849143-04 SOIL	12/02/18 21:07	Colleen Walsh	15.26	#36	.25		MW #7	N/A	12/03/18 05:53	Olufemi Olujimi	10	E/G#2
L1849143-05 SOIL	12/02/18 21:07	Colleen Walsh	15.22	#36	.25		MW #7	N/A	12/03/18 05:53	Olufemi Olujimi	10	E/G#2
L1849143-06 SOIL	12/02/18 21:07	Colleen Walsh	15.18	#36	.25		MW #7	N/A	12/03/18 05:53	Olufemi Olujimi	10	E/G#2
L1849143-07 SOIL	12/02/18 21:07	Colleen Walsh	15.44	#36	.25		MW #7	N/A	12/03/18 05:53	Olufemi Olujimi	10	E/G#2
L1849143-08 SOIL	12/02/18 21:07	Colleen Walsh	15.67	#36	.25		MW #7	N/A	12/03/18 05:53	Olufemi Olujimi	10	E/G#2
L1849143-09 SOIL	12/02/18 21:07	Colleen Walsh	15.02	#36	.25		MW #7	N/A	12/03/18 05:53	Olufemi Olujimi	10	E/G#2
L1849143-10 SOIL	12/02/18 21:07	Colleen Walsh	15.15	#36	.25		MW #7	N/A	12/03/18 05:53	Olufemi Olujimi	10	E/G#2

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ORGANIC ELN REPORT

Workgroup: WG1184846

Sample/ Type	Extraction								Concentration			
	Extract Date	Analyst	Sample Weight g	Balance Id	Surr Amt ml	Spike Amt ml	Extract Unit Id	Stop Date/Time	Conc Date	Analyst	Final Vol ml	Conc Unit
L1849143-12 SOIL	12/02/18 21:07	Colleen Walsh	15.69	#36	.25		MW #7	N/A	12/03/18 05:53	Olufemi Olujimi	10	E/G#2
L1849143-13 SOIL	12/02/18 21:07	Colleen Walsh	15.48	#36	.25		MW #7	N/A	12/03/18 05:53	Olufemi Olujimi	10	E/G#2
L1849143-16 SOIL	12/02/18 21:07	Colleen Walsh	15.42	#36	.25		MW #7	N/A	12/03/18 05:53	Olufemi Olujimi	10	E/G#2
WG1184846-1 BLANK	12/02/18 21:07	Colleen Walsh	15.74	#36	.25		MW #7	N/A	12/03/18 05:53	Olufemi Olujimi	10	E/G#2
WG1184846-2 LCS	12/02/18 21:07	Colleen Walsh	15.79	#36	.25	.25	MW #7	N/A	12/03/18 05:53	Olufemi Olujimi	10	E/G#2
WG1184846-3 LCSD	12/02/18 21:07	Colleen Walsh	15.90	#36	.25	.25	MW #7	N/A	12/03/18 05:53	Olufemi Olujimi	10	E/G#2
WG1184846-4 MS	12/02/18 21:07 **5g due to matrix**	Colleen Walsh	5.61	#36	.25	.25	MW #7	N/A	12/03/18 05:53	Olufemi Olujimi	10	E/G#2
WG1184846-5 MSD	12/02/18 21:07 **5g due to matrix**	Colleen Walsh	5.79	#36	.25	.25	MW #7	N/A	12/03/18 05:53	Olufemi Olujimi	10	E/G#2
WG1184846-6 MS	12/02/18 21:07	Colleen Walsh	15.62	#36	.25	.25	MW #7	N/A	12/03/18 05:53	Olufemi Olujimi	10	E/G#2
WG1184846-7 MSD	12/02/18 21:07	Colleen Walsh	15.95	#36	.25	.25	MW #7	N/A	12/03/18 05:53	Olufemi Olujimi	10	E/G#2

ORGANIC ELN REPORT

Workgroup: WG1184846

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ORGANIC ELN REPORT

Workgroup: WG1184846

Sample/ Type	Cleanup 1 Cleanup Date	Analyst	Pest Aliquot ml	Pest Final ml	Cleanup 2 Cleanup Date	Analyst
L1849049-01 SOIL	12/04/18 00:07	Gloria Frimpong Mans	1	1		
L1849049-02 SOIL	12/04/18 00:07	Gloria Frimpong Mans	1	1		
L1849060-02 SAMP	12/04/18 00:07	Gloria Frimpong Mans	1	1		
L1849060-03 SAMP	12/04/18 00:07	Gloria Frimpong Mans	1	1		
L1849060-04 SAMP	12/04/18 00:07	Gloria Frimpong Mans	1	1		
L1849060-05 SAMP	12/04/18 00:07	Gloria Frimpong Mans	1	1		
L1849060-06 SAMP	12/04/18 00:07	Gloria Frimpong Mans	1	1		
L1849143-01 SOIL	12/04/18 00:07	Gloria Frimpong Mans	1	1		
L1849143-02 SOIL	12/04/18 00:07	Gloria Frimpong Mans	1	1		
L1849143-03 SOIL	12/04/18 00:07	Gloria Frimpong Mans	1	1		
L1849143-04 SOIL	12/04/18 00:07	Gloria Frimpong Mans	1	1		
L1849143-05 SOIL	12/04/18 00:07	Gloria Frimpong Mans	1	1		

ORGANIC ELN REPORT

Workgroup: WG1184846

Sample/ Type	Cleanup 1 Cleanup Date	Analyst	Pest Aliquot ml	Pest Final ml	Cleanup 2 Cleanup Date	Analyst
L1849143-06 SOIL	12/04/18 00:07	Gloria Frimpong Mans	1	1		
L1849143-07 SOIL	12/04/18 00:07	Gloria Frimpong Mans	1	1		
L1849143-08 SOIL	12/04/18 00:07	Gloria Frimpong Mans	1	1		
L1849143-09 SOIL	12/04/18 00:07	Gloria Frimpong Mans	1	1		
L1849143-10 SOIL	12/04/18 00:07	Gloria Frimpong Mans	1	1		
L1849143-12 SOIL	12/04/18 00:07	Gloria Frimpong Mans	1	1		
L1849143-13 SOIL	12/04/18 00:07	Gloria Frimpong Mans	1	1		
L1849143-16 SOIL	12/04/18 00:07	Gloria Frimpong Mans	1	1		
WG1184846-1 BLANK	12/04/18 00:07	Gloria Frimpong Mans	1	1		
WG1184846-2 LCS	12/04/18 00:07	Gloria Frimpong Mans	1	1		
WG1184846-3 LCSD	12/04/18 00:07	Gloria Frimpong Mans	1	1		
WG1184846-4 MS	12/04/18 00:07	Gloria Frimpong Mans	1	1		

ORGANIC ELN REPORT

Workgroup: WG1184846

Sample/ Type	Cleanup 1				Cleanup 2	
	Cleanup Date	Analyst	Pest Aliquot **ml**	Pest Final **ml**	Cleanup Date	Analyst
WG1184846-5 MSD	12/04/18 00:07	Gloria Frimpong Mans	1	1		
WG1184846-6 MS	12/04/18 00:07	Gloria Frimpong Mans	1	1		
WG1184846-7 MSD	12/04/18 00:07	Gloria Frimpong Mans	1	1		

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Metals

Inorganic Data
(ICP Analysis)

Form 1
METALS

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Lab ID	: L1849060-02	**Date Collected**	: 11/30/18 09:05
Client ID	: CB-02	**Date Received**	: 11/30/18
Sample Location	: PORT OF ALBANY	**Date Analyzed**	: 12/06/18 02:42
Sample Matrix	: SOIL	**Dilution Factor**	: 20
Analytical Method	: 1,6010D	**Analyst**	: AB
Lab File ID	: WG1185910.pdf	**Instrument ID**	: TRACE5
Sample Amount	: 1.268g	**%Solids**	: 66
Digestion Method	: EPA 3050B	**Date Digested**	: 12/05/18

		mg/kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-89-6	Iron, Total	82000	59.5	10.7	
7440-66-6	Zinc, Total	3940	59.5	3.48	

Form 1
METALS

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-02	Date Collected	: 11/30/18 09:05
Client ID	: CB-02	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/06/18 00:54
Sample Matrix	: SOIL	Dilution Factor	: 2
Analytical Method	: 1,6010D	Analyst	: AB
Lab File ID	: WG1185910.pdf	Instrument ID	: TRACE5
Sample Amount	: 1.268g	%Solids	: 66
Digestion Method	: EPA 3050B	Date Digested	: 12/05/18

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Total	11200	11.9	3.21	
7440-36-0	Antimony, Total	16.3	5.95	0.452	
7440-38-2	Arsenic, Total	16.0	1.19	0.247	
7440-39-3	Barium, Total	410	1.19	0.207	
7440-41-7	Beryllium, Total	0.345	0.595	0.039	J
7440-43-9	Cadmium, Total	21.4	1.19	0.116	
7440-70-2	Calcium, Total	34200	11.9	4.16	
7440-47-3	Chromium, Total	150	1.19	0.114	
7440-48-4	Cobalt, Total	21.4	2.38	0.197	
7440-50-8	Copper, Total	655	1.19	0.307	
7439-92-1	Lead, Total	1470	5.95	0.319	
7439-95-4	Magnesium, Total	7390	11.9	1.83	
7439-96-5	Manganese, Total	915	1.19	0.189	
7440-02-0	Nickel, Total	140	2.97	0.288	
7440-09-7	Potassium, Total	897	297	17.1	
7782-49-2	Selenium, Total	1.83	2.38	0.307	J
7440-22-4	Silver, Total	3.09	1.19	0.337	
7440-23-5	Sodium, Total	208	238	3.75	J
7440-28-0	Thallium, Total	0.464	2.38	0.375	J
7440-62-2	Vanadium, Total	58.0	1.19	0.241	

Form 1
METALS

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-03	Date Collected	: 11/30/18 09:25
Client ID	: CB-03	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/05/18 23:50
Sample Matrix	: SOIL	Dilution Factor	: 2
Analytical Method	: 1,6010D	Analyst	: AB
Lab File ID	: WG1185910.pdf	Instrument ID	: TRACE5
Sample Amount	: 1.294g	%Solids	: 50
Digestion Method	: EPA 3050B	Date Digested	: 12/05/18

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Total	7340	15.5	4.18	
7440-36-0	Antimony, Total	17.4	7.74	0.588	
7440-38-2	Arsenic, Total	13.5	1.55	0.322	
7440-39-3	Barium, Total	233	1.55	0.269	
7440-41-7	Beryllium, Total	0.279	0.774	0.051	J
7440-43-9	Cadmium, Total	10.3	1.55	0.152	
7440-70-2	Calcium, Total	33600	15.5	5.42	
7440-47-3	Chromium, Total	189	1.55	0.149	
7440-48-4	Cobalt, Total	11.2	3.10	0.257	
7440-50-8	Copper, Total	2700	1.55	0.400	
7439-89-6	Iron, Total	39300	7.74	1.40	
7439-92-1	Lead, Total	1340	7.74	0.415	
7439-95-4	Magnesium, Total	5310	15.5	2.38	
7439-96-5	Manganese, Total	318	1.55	0.246	
7440-02-0	Nickel, Total	152	3.87	0.375	
7440-09-7	Potassium, Total	650	387	22.3	
7782-49-2	Selenium, Total	1.01	3.10	0.400	J
7440-22-4	Silver, Total	14.0	1.55	0.438	
7440-23-5	Sodium, Total	161	310	4.88	J
7440-28-0	Thallium, Total	ND	3.10	0.488	U
7440-62-2	Vanadium, Total	37.9	1.55	0.314	
7440-66-6	Zinc, Total	1760	7.74	0.454	

Form 1
METALS

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-04	Date Collected	: 11/30/18 09:45
Client ID	: CB-04	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/06/18 00:59
Sample Matrix	: SOIL	Dilution Factor	: 2
Analytical Method	: 1,6010D	Analyst	: AB
Lab File ID	: WG1185910.pdf	Instrument ID	: TRACE5
Sample Amount	: 1.318g	%Solids	: 86
Digestion Method	: EPA 3050B	Date Digested	: 12/05/18

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Total	4200	8.78	2.37	
7440-36-0	Antimony, Total	1.08	4.39	0.334	J
7440-38-2	Arsenic, Total	6.92	0.878	0.183	
7440-39-3	Barium, Total	98.9	0.878	0.153	
7440-41-7	Beryllium, Total	0.184	0.439	0.029	J
7440-43-9	Cadmium, Total	1.57	0.878	0.086	
7440-70-2	Calcium, Total	77100	8.78	3.07	
7440-47-3	Chromium, Total	25.2	0.878	0.084	
7440-48-4	Cobalt, Total	5.60	1.76	0.146	
7440-50-8	Copper, Total	71.1	0.878	0.226	
7439-89-6	Iron, Total	42200	4.39	0.793	
7439-92-1	Lead, Total	203	4.39	0.235	
7439-95-4	Magnesium, Total	6320	8.78	1.35	
7439-96-5	Manganese, Total	391	0.878	0.140	
7440-02-0	Nickel, Total	22.3	2.20	0.212	
7440-09-7	Potassium, Total	768	220	12.6	
7782-49-2	Selenium, Total	0.342	1.76	0.226	J
7440-22-4	Silver, Total	0.869	0.878	0.248	J
7440-23-5	Sodium, Total	236	176	2.77	
7440-28-0	Thallium, Total	ND	1.76	0.277	U
7440-62-2	Vanadium, Total	16.8	0.878	0.178	
7440-66-6	Zinc, Total	331	4.39	0.257	

Form 1
METALS

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-05	Date Collected	: 11/30/18 10:10
Client ID	: CB-01	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/06/18 01:04
Sample Matrix	: SOIL	Dilution Factor	: 2
Analytical Method	: 1,6010D	Analyst	: AB
Lab File ID	: WG1185910.pdf	Instrument ID	: TRACE5
Sample Amount	: 1.312g	%Solids	: 73
Digestion Method	: EPA 3050B	Date Digested	: 12/05/18

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Total	8970	10.4	2.82	
7440-36-0	Antimony, Total	15.2	5.22	0.397	
7440-38-2	Arsenic, Total	25.9	1.04	0.217	
7440-39-3	Barium, Total	305	1.04	0.182	
7440-41-7	Beryllium, Total	0.198	0.522	0.034	J
7440-43-9	Cadmium, Total	13.2	1.04	0.102	
7440-70-2	Calcium, Total	8260	10.4	3.65	
7440-47-3	Chromium, Total	91.8	1.04	0.100	
7440-48-4	Cobalt, Total	16.3	2.09	0.173	
7440-50-8	Copper, Total	735	1.04	0.269	
7439-92-1	Lead, Total	2060	5.22	0.280	
7439-95-4	Magnesium, Total	3390	10.4	1.61	
7439-96-5	Manganese, Total	1440	1.04	0.166	
7440-02-0	Nickel, Total	104	2.61	0.253	
7440-09-7	Potassium, Total	664	261	15.0	
7782-49-2	Selenium, Total	1.98	2.09	0.269	J
7440-22-4	Silver, Total	1.33	1.04	0.295	
7440-23-5	Sodium, Total	165	209	3.29	J
7440-28-0	Thallium, Total	2.57	2.09	0.329	
7440-62-2	Vanadium, Total	56.7	1.04	0.212	
7440-66-6	Zinc, Total	1890	5.22	0.306	

Form 1
METALS

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Lab ID	: L1849060-05	**Date Collected**	: 11/30/18 10:10
Client ID	: CB-01	**Date Received**	: 11/30/18
Sample Location	: PORT OF ALBANY	**Date Analyzed**	: 12/06/18 02:46
Sample Matrix	: SOIL	**Dilution Factor**	: 20
Analytical Method	: 1,6010D	**Analyst**	: AB
Lab File ID	: WG1185910.pdf	**Instrument ID**	: TRACE5
Sample Amount	: 1.312g	**%Solids**	: 73
Digestion Method	: EPA 3050B	**Date Digested**	: 12/05/18

		mg/kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-89-6	Iron, Total	91700	52.2	9.43	

Form 1
METALS

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-06	Date Collected	: 11/30/18 12:00
Client ID	: DUP-18	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/06/18 01:08
Sample Matrix	: SOIL	Dilution Factor	: 2
Analytical Method	: 1,6010D	Analyst	: AB
Lab File ID	: WG1185910.pdf	Instrument ID	: TRACE5
Sample Amount	: 1.295g	%Solids	: 49
Digestion Method	: EPA 3050B	Date Digested	: 12/05/18

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Total	6870	15.8	4.27	
7440-36-0	Antimony, Total	18.3	7.91	0.601	
7440-38-2	Arsenic, Total	12.3	1.58	0.329	
7440-39-3	Barium, Total	162	1.58	0.275	
7440-41-7	Beryllium, Total	0.396	0.791	0.052	J
7440-43-9	Cadmium, Total	8.37	1.58	0.155	
7440-70-2	Calcium, Total	30200	15.8	5.54	
7440-47-3	Chromium, Total	172	1.58	0.152	
7440-48-4	Cobalt, Total	11.2	3.16	0.263	
7440-50-8	Copper, Total	3270	1.58	0.408	
7439-89-6	Iron, Total	37400	7.91	1.43	
7439-92-1	Lead, Total	1250	7.91	0.424	
7439-95-4	Magnesium, Total	4960	15.8	2.44	
7439-96-5	Manganese, Total	312	1.58	0.252	
7440-02-0	Nickel, Total	150	3.96	0.383	
7440-09-7	Potassium, Total	532	396	22.8	
7782-49-2	Selenium, Total	1.11	3.16	0.408	J
7440-22-4	Silver, Total	14.1	1.58	0.448	
7440-23-5	Sodium, Total	147	316	4.98	J
7440-28-0	Thallium, Total	ND	3.16	0.498	U
7440-62-2	Vanadium, Total	34.9	1.58	0.321	
7440-66-6	Zinc, Total	1750	7.91	0.464	

Form 1
METALS

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: WG1186031-1	Date Collected	: NA
Client ID	: WG1186031-1BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 12/05/18 23:41
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,6010D	Analyst	: AB
Lab File ID	: WG1185910.pdf	Instrument ID	: TRACE5
Sample Amount	: 1.25g	%Solids	: NA
Digestion Method	: EPA 3050B	Date Digested	: 12/05/18

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Total	ND	4.00	1.08	U
7440-36-0	Antimony, Total	ND	2.00	0.152	U
7440-38-2	Arsenic, Total	ND	0.400	0.083	U
7440-39-3	Barium, Total	ND	0.400	0.070	U
7440-41-7	Beryllium, Total	ND	0.200	0.013	U
7440-43-9	Cadmium, Total	ND	0.400	0.039	U
7440-70-2	Calcium, Total	ND	4.00	1.40	U
7440-47-3	Chromium, Total	0.040	0.400	0.038	J
7440-48-4	Cobalt, Total	ND	0.800	0.066	U
7440-50-8	Copper, Total	ND	0.400	0.103	U
7439-89-6	Iron, Total	0.372	2.00	0.361	J
7439-92-1	Lead, Total	ND	2.00	0.107	U
7439-95-4	Magnesium, Total	ND	4.00	0.616	U
7439-96-5	Manganese, Total	ND	0.400	0.064	U
7440-02-0	Nickel, Total	ND	1.00	0.097	U
7440-09-7	Potassium, Total	ND	100	5.76	U
7782-49-2	Selenium, Total	ND	0.800	0.103	U
7440-22-4	Silver, Total	ND	0.400	0.113	U
7440-23-5	Sodium, Total	ND	80.0	1.26	U
7440-28-0	Thallium, Total	ND	0.800	0.126	U
7440-62-2	Vanadium, Total	ND	0.400	0.081	U
7440-66-6	Zinc, Total	ND	2.00	0.117	U

Form 2A
Initial and Continuing Calibration Verification

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: TRACE5	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1138393-3			R1138393-6			R1138393-8			
Date Analyzed :	12/05/18 13:01			12/05/18 13:35			12/05/18 14:20			
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum	0.5000	0.5100	102.	0.5000	0.5240	105.	0.5070	101.		
Antimony	0.5000	0.4740	95.	0.5000	0.4670	93.	0.4660	93.		
Arsenic	0.5000	0.4730	94.	0.5000	0.4690	94.	0.4650	93.		
Barium	0.5000	0.4650	93.	0.5000	0.4630	93.	0.4590	92.		
Beryllium	0.5000	0.4540	91.	0.5000	0.4510	90.	0.4450	89.		
Cadmium	0.5000	0.4680	94.	0.5000	0.4620	92.	0.4580	92.		
Calcium	0.5000	0.4540	91.	0.5000	0.4720	94.	0.4550	91.		
Chromium	0.5000	0.4700	94.	0.5000	0.4610	92.	0.4580	92.		
Cobalt	0.5000	0.4680	94.	0.5000	0.4600	92.	0.4580	92.		
Copper	0.5000	0.4660	93.	0.5000	0.4570	91.	0.4540	91.		
Iron	0.5000	0.4940	99.	0.5000	0.4950	99.	0.4830	97.		
Lead	0.5000	0.4800	96.	0.5000	0.4750	95.	0.4700	94.		
Magnesium	0.5000	0.4760	95.	0.5000	0.4830	97.	0.4720	94.		
Manganese	0.5000	0.4720	94.	0.5000	0.4700	94.	0.4640	93.		
Nickel	0.5000	0.4650	93.	0.5000	0.4570	91.	0.4540	91.		
Potassium	5.0000	4.8500	97.	5.0000	4.8600	97.	4.8300	96.		
Selenium	0.5000	0.4750	95.	0.5000	0.4700	94.	0.4660	93.		
Silver	0.5000	0.4670	93.	0.5000	0.4680	94.	0.4660	93.		
Sodium	10.0000	9.4900	95.	10.0000	9.6700	97.	9.5500	96.		
Thallium	0.5000	0.4670	93.	0.5000	0.4610	92.	0.4590	92.		
Vanadium	0.5000	0.4760	95.	0.5000	0.4690	94.	0.4650	93.		
Zinc	0.5000	0.4580	92.	0.5000	0.4520	90.	0.4480	90.		

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: TRACE5	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1138393-10			R1138393-12			R1138393-14		R1138393-16	
Date Analyzed :	12/05/18 14:48			12/05/18 15:46			12/05/18 16:41		12/05/18 17:36	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum	0.5000	0.5320	106.	0.5000	0.5380	108.	0.5640	113.	0.5380	108.
Antimony	0.5000	0.4970	99.	0.5000	0.4930	98.	0.5030	101.	0.5090	102.
Arsenic	0.5000	0.4940	99.	0.5000	0.4900	98.	0.5010	100.	0.5010	100.
Barium	0.5000	0.4880	98.	0.5000	0.4890	98.	0.4990	100	0.5150	103.
Beryllium	0.5000	0.4720	94.	0.5000	0.4770	95.	0.4880	98.	0.4900	98.
Cadmium	0.5000	0.4850	97.	0.5000	0.4820	96.	0.4900	98.	0.4960	99.
Calcium	0.5000	0.4820	96.	0.5000	0.4740	95.	0.4880	98.	0.4820	96.
Chromium	0.5000	0.4840	97.	0.5000	0.4840	97.	0.4900	98.	0.4950	99.
Cobalt	0.5000	0.4860	97.	0.5000	0.4810	96.	0.4850	97.	0.4950	99.
Copper	0.5000	0.4840	97.	0.5000	0.4820	96.	0.4860	97.	0.5040	101.
Iron	0.5000	0.4910	98.	0.5000	0.4920	98.	0.5050	101.	0.5150	103.
Lead	0.5000	0.4970	99.	0.5000	0.5010	100.	0.5060	101.	0.5020	100.
Magnesium	0.5000	0.4920	98.	0.5000	0.5070	101.	0.5220	104.	0.5200	104.
Manganese	0.5000	0.4890	98.	0.5000	0.4990	100	0.5140	103.	0.5130	103.
Nickel	0.5000	0.4810	96.	0.5000	0.4790	96.	0.4860	97.	0.4950	99.
Potassium	5.0000	4.8700	97.	5.0000	4.9900	100	5.1700	103.	5.0300	101.
Selenium	0.5000	0.5040	101.	0.5000	0.4930	99.	0.5010	100.	0.5350	107.
Silver	0.5000	0.4910	98.	0.5000	0.4860	97.	0.4880	98.	0.5040	101.
Sodium	10.0000	9.7400	97.	10.0000	10.1000	101.	10.6000	106.	10.7000	107.
Thallium	0.5000	0.4860	97.	0.5000	0.4840	97.	0.4910	98.	0.5000	100
Vanadium	0.5000	0.4910	98.	0.5000	0.4940	99.	0.5060	101.	0.5080	102.
Zinc	0.5000	0.4800	96.	0.5000	0.4740	95.	0.4820	96.	0.4960	99.

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: TRACE5	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1138393-18			R1138393-20		R1138393-22	
Date Analyzed :				12/05/18 18:31			12/05/18 19:50		12/05/18 20:46	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.5280	106.	0.5240	105.	0.5230	105.
Antimony				0.5000	0.5130	103.	0.5060	101.	0.5100	102.
Arsenic				0.5000	0.5040	101.	0.4930	99.	0.4960	99.
Barium				0.5000	0.5210	104.	0.5140	103.	0.5120	102.
Beryllium				0.5000	0.4940	99.	0.4850	97.	0.4850	97.
Cadmium				0.5000	0.4980	100	0.4900	98.	0.4910	98.
Calcium				0.5000	0.4860	97.	0.4610	92.	0.4700	94.
Chromium				0.5000	0.4940	99.	0.4840	97.	0.4870	97.
Cobalt				0.5000	0.4990	100	0.4910	98.	0.4920	98.
Copper				0.5000	0.5070	101.	0.5000	100	0.5010	100.
Iron				0.5000	0.5260	105.	0.5160	103.	0.5150	103.
Lead				0.5000	0.5000	100.	0.4910	98.	0.4920	98.
Magnesium				0.5000	0.5150	103.	0.4970	99.	0.4970	99.
Manganese				0.5000	0.5130	103.	0.5020	100.	0.5020	100.
Nickel				0.5000	0.4970	99.	0.4900	98.	0.4900	98.
Potassium				5.0000	5.0500	101.	4.9200	98.	4.9700	99.
Selenium				0.5000	0.5420	108.	0.5420	108.	0.5360	107.
Silver				0.5000	0.5070	101.	0.4980	100	0.5020	100.
Sodium				10.0000	10.8000	108.	10.5000	105.	10.4000	104.
Thallium				0.5000	0.5040	101.	0.4960	99.	0.4950	99.
Vanadium				0.5000	0.5080	102.	0.4980	100	0.4990	100
Zinc				0.5000	0.5010	100.	0.4930	98.	0.4920	98.

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: TRACE5	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1138393-24						
Date Analyzed :				12/05/18 21:37						
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.5120	102.				
Antimony				0.5000	0.5050	101.				
Arsenic				0.5000	0.4930	99.				
Barium				0.5000	0.5100	102.				
Beryllium				0.5000	0.4820	96.				
Cadmium				0.5000	0.4890	98.				
Calcium				0.5000	0.4640	93.				
Chromium				0.5000	0.4860	97.				
Cobalt				0.5000	0.4890	98.				
Copper				0.5000	0.4990	100				
Iron				0.5000	0.5100	102.				
Lead				0.5000	0.4900	98.				
Magnesium				0.5000	0.4940	99.				
Manganese				0.5000	0.4980	100				
Nickel				0.5000	0.4870	97.				
Potassium				5.0000	4.8400	97.				
Selenium				0.5000	0.5380	108.				
Silver				0.5000	0.5000	100.				
Sodium				10.0000	10.3000	103.				
Thallium				0.5000	0.4920	98.				
Vanadium				0.5000	0.4960	99.				
Zinc				0.5000	0.4900	98.				

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: TRACE5	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1138393-26			R1138393-28			R1138393-30		R1138393-32	
Date Analyzed :	12/05/18 22:19			12/06/18 00:26			12/06/18 01:22		12/06/18 02:18	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum	0.5000	0.5240	105.	0.5000	0.5250	105.	0.5300	106.	0.5110	102.
Antimony	0.5000	0.5000	100	0.5000	0.4950	99.	0.4960	99.	0.4890	98.
Arsenic	0.5000	0.4920	98.	0.5000	0.4920	98.	0.4960	99.	0.4860	97.
Barium	0.5000	0.4890	98.	0.5000	0.4880	98.	0.4920	98.	0.4860	97.
Beryllium	0.5000	0.4750	95.	0.5000	0.4750	95.	0.4770	95.	0.4700	94.
Cadmium	0.5000	0.4850	97.	0.5000	0.4840	97.	0.4860	97.	0.4780	96.
Calcium	0.5000	0.4790	96.	0.5000	0.4800	96.	0.4950	99.	0.4910	98.
Chromium	0.5000	0.4870	97.	0.5000	0.4860	97.	0.4880	98.	0.4830	96.
Cobalt	0.5000	0.4830	96.	0.5000	0.4810	96.	0.4820	96.	0.4750	95.
Copper	0.5000	0.4810	96.	0.5000	0.4820	96.	0.4820	96.	0.4770	95.
Iron	0.5000	0.4980	100	0.5000	0.4950	99.	0.5100	102.	0.4970	99.
Lead	0.5000	0.4980	100	0.5000	0.4990	100	0.5030	101.	0.4920	98.
Magnesium	0.5000	0.4820	96.	0.5000	0.4840	97.	0.4920	98.	0.4840	97.
Manganese	0.5000	0.4960	99.	0.5000	0.4980	100	0.5010	100.	0.4920	98.
Nickel	0.5000	0.4820	96.	0.5000	0.4810	96.	0.4820	96.	0.4750	95.
Potassium	5.0000	4.8400	97.	5.0000	4.8100	96.	4.9600	99.	4.9400	99.
Selenium	0.5000	0.4980	100	0.5000	0.4930	98.	0.4930	99.	0.4880	98.
Silver	0.5000	0.4880	98.	0.5000	0.4900	98.	0.4890	98.	0.4840	97.
Sodium	10.0000	9.7800	98.	10.0000	9.8000	98.	10.0000	100.	9.8300	98.
Thallium	0.5000	0.4850	97.	0.5000	0.4840	97.	0.4850	97.	0.4810	96.
Vanadium	0.5000	0.4950	99.	0.5000	0.4960	99.	0.4990	100	0.4910	98.
Zinc	0.5000	0.4790	96.	0.5000	0.4760	95.	0.4780	96.	0.4700	94.

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: TRACE5	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1138393-34						
Date Analyzed :				12/06/18 03:02						
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Aluminum				0.5000	0.5340	107.				
Antimony				0.5000	0.4890	98.				
Arsenic				0.5000	0.4870	97.				
Barium				0.5000	0.4900	98.				
Beryllium				0.5000	0.4760	95.				
Cadmium				0.5000	0.4780	96.				
Calcium				0.5000	0.5080	102.				
Chromium				0.5000	0.4810	96.				
Cobalt				0.5000	0.4750	95.				
Copper				0.5000	0.4750	95.				
Iron				0.5000	0.4990	100				
Lead				0.5000	0.4920	98.				
Magnesium				0.5000	0.4890	98.				
Manganese				0.5000	0.5000	100				
Nickel				0.5000	0.4750	95.				
Potassium				5.0000	5.0000	100				
Selenium				0.5000	0.4850	97.				
Silver				0.5000	0.4810	96.				
Sodium				10.0000	10.1000	101.				
Thallium				0.5000	0.4780	96.				
Vanadium				0.5000	0.4910	98.				
Zinc				0.5000	0.4700	94.				

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: TRACE6	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1138742-3			R1138742-6			R1138742-8		R1138742-10	
Date Analyzed :	12/06/18 08:33			12/06/18 09:15			12/06/18 10:33		12/06/18 11:10	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Magnesium	0.5000	0.5100	102.	0.5000	0.5170	103.	0.5070	101.	0.5100	102.

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: TRACE6	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1138742-12			R1138742-14		R1138742-16	
Date Analyzed :				12/06/18 12:10			12/06/18 13:16		12/06/18 14:18	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Magnesium				0.5000	0.5120	102.	0.5120	102.	0.5150	103.

Acceptance Criteria:

ICV:	**95-105%**	**(Methods 200.7, 245.1)**
	90-110%	**(Methods 200.8, 6010, 6020, 7470, 7471, 7474)**
	85-115%	**(Method 1631)**
CCV:	**90-110%**	**(Methods 200.7, 245.1, 6010, 6020, 7474)**
	85-115%	**(Methods 200.8, 1631)**
	80-120%	**(Methods 7470, 7471)**

Form 2A
Initial and Continuing Calibration Verification

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: TRACE6	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1138742-18						
Date Analyzed :				12/06/18 15:18						
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Magnesium				0.5000	0.5130	103.				

Acceptance Criteria:

ICV:	**95-105%**	**(Methods 200.7, 245.1)**
	90-110%	**(Methods 200.8, 6010, 6020, 7470, 7471, 7474)**
	85-115%	**(Method 1631)**
CCV:	**90-110%**	**(Methods 200.7, 245.1, 6010, 6020, 7474)**
	85-115%	**(Methods 200.8, 1631)**
	80-120%	**(Methods 7470, 7471)**

Form 3
Blanks

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: TRACE5		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1138393-4		R1138393-7		R1138393-9		R1138393-13		WG1186031-1	
Date Analyzed :	12/05/18 13:05		12/05/18 13:39		12/05/18 14:25		12/05/18 15:50		12/05/18 23:41	
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q	mg/kg	Q
Aluminum	0.0270	U	0.0270	U	0.0270	U	0.0270	U	1.08	U
Antimony	0.00380	U	0.00380	U	0.00380	U	0.00380	U	0.152	U
Arsenic	0.00208	U	0.00208	U	0.00208	U	0.00208	U	0.083	U
Barium	0.00174	U	0.00174	U	0.00174	U	0.00174	U	0.070	U
Beryllium	0.000330	U	0.000330	U	0.000330	U	0.000330	U	0.013	U
Cadmium	0.000980	U	0.000980	U	0.000980	U	0.000980	U	0.039	U
Calcium	0.0350	U	0.0350	U	0.0350	U	0.0350	U	1.40	U
Chromium	0.000960	U	0.000960	U	0.000960	U	0.000960	U	0.040	J
Cobalt	0.00166	U	0.00166	U	0.00166	U	0.00166	U	0.066	U
Copper	0.00258	U	0.00258	U	0.00258	U	0.00258	U	0.103	U
Iron	0.00903	U	0.00903	U	0.00903	U	0.00903	U	0.372	J
Lead	0.00268	U	0.00268	U	0.00268	U	0.00268	U	0.107	U
Magnesium	0.0154	U	0.0154	U	0.0154	U	0.0154	U	0.616	U
Manganese	0.00159	U	0.00159	U	0.00159	U	0.00159	U	0.064	U
Nickel	0.00242	U	0.00242	U	0.00242	U	0.00242	U	0.097	U
Potassium	0.144	U	0.144	U	0.144	U	0.144	U	5.76	U
Selenium	0.00258	U	0.00258	U	0.00258	U	0.00258	U	0.103	U
Silver	0.00283	U	0.00283	U	0.00283	U	0.00283	U	0.113	U
Sodium	0.0315	U	0.0315	U	0.0315	U	0.0315	U	1.26	U
Thallium	0.00315	U	0.00315	U	0.00315	U	0.00315	U	0.126	U
Vanadium	0.00203	U	0.00203	U	0.00203	U	0.00203	U	0.081	U
Zinc	0.00293	U	0.00293	U	0.00293	U	0.00293	U	0.117	U

Form 3
Blanks

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: TRACE5		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1138393-11		R1138393-15		R1138393-17		R1138393-19			
Date Analyzed :	12/05/18 14:53		12/05/18 16:45		12/05/18 17:40		12/05/18 18:35			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Aluminum	0.0270	U	0.0270	U	0.0270	U	0.0270	U		
Antimony	0.00380	U	0.00380	U	0.00380	U	0.00380	U		
Arsenic	0.00208	U	0.00208	U	0.00208	U	0.00208	U		
Barium	0.00174	U	0.00174	U	0.00174	U	0.00174	U		
Beryllium	0.000330	U	0.000330	U	0.000330	U	0.000330	U		
Cadmium	0.000980	U	0.000980	U	0.000980	U	0.000980	U		
Calcium	0.0350	U	0.0350	U	0.0350	U	0.0350	U		
Chromium	0.000960	U	0.000960	U	0.000960	U	0.000960	U		
Cobalt	0.00166	U	0.00166	U	0.00166	U	0.00166	U		
Copper	0.00258	U	0.00258	U	0.00410	J	0.00490	J		
Iron	0.00903	U	0.00903	U	0.00903	U	0.00903	U		
Lead	0.00268	U	0.00268	U	0.00268	U	0.00268	U		
Magnesium	0.0154	U	0.0154	U	0.0154	U	0.0154	U		
Manganese	0.00160	J	0.00159	U	0.00159	U	0.00159	U		
Nickel	0.00242	U	0.00242	U	0.00242	U	0.00242	U		
Potassium	0.144	U	0.144	U	0.144	U	0.144	U		
Selenium	0.00480	J	0.00258	U	0.00258	U	0.00258	U		
Silver	0.00283	U	0.00283	U	0.00283	U	0.00283	U		
Sodium	0.0315	U	0.0315	U	0.0315	U	0.0315	U		
Thallium	0.00315	U	0.00315	U	0.00315	U	0.00315	U		
Vanadium	0.00203	U	0.00203	U	0.00203	U	0.00203	U		
Zinc	0.00293	U	0.00293	U	0.00293	U	0.00293	U		

Form 3
Blanks

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: TRACE5		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :	R1138393-27		R1138393-21		R1138393-23		R1138393-25			
Date Analyzed :	12/05/18 22:23		12/05/18 19:54		12/05/18 20:51		12/05/18 21:41			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Aluminum	0.0270	U	0.0270	U	0.0270	U	0.0270	U		
Antimony	0.00380	U	0.00380	U	0.00380	U	0.00380	U		
Arsenic	0.00208	U	0.00208	U	0.00208	U	0.00208	U		
Barium	0.00174	U	0.00174	U	0.00174	U	0.00174	U		
Beryllium	0.000330	U	0.000330	U	0.000330	U	0.000330	U		
Cadmium	0.000980	U	0.000980	U	0.000980	U	0.000980	U		
Calcium	0.0350	U	0.0350	U	0.0350	U	0.0350	U		
Chromium	0.00130	J	0.000960	U	0.000960	U	0.000960	U		
Cobalt	0.00166	U	0.00166	U	0.00166	U	0.00166	U		
Copper	0.00258	U	0.00530	J	0.00490	J	0.00530	J		
Iron	0.00903	U	0.00903	U	0.00903	U	0.00903	U		
Lead	0.00268	U	0.00268	U	0.00268	U	0.00268	U		
Magnesium	0.0154	U	0.0154	U	0.0154	U	0.0154	U		
Manganese	0.00159	U	0.00159	U	0.00159	U	0.00159	U		
Nickel	0.00242	U	0.00242	U	0.00242	U	0.00242	U		
Potassium	0.144	U	0.144	U	0.144	U	0.144	U		
Selenium	0.00258	U	0.00258	U	0.00258	U	0.00258	U		
Silver	0.00283	U	0.00283	U	0.00283	U	0.00283	U		
Sodium	0.0315	U	0.0399	J	0.0315	U	0.0315	U		
Thallium	0.00315	U	0.00315	U	0.00315	U	0.00315	U		
Vanadium	0.00203	U	0.00203	U	0.00203	U	0.00203	U		
Zinc	0.00293	U	0.00293	U	0.00293	U	0.00293	U		

Form 3
Blanks

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: TRACE5		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1138393-29		R1138393-31		R1138393-33			
Date Analyzed :			12/06/18 00:31		12/06/18 01:27		12/06/18 02:23			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Aluminum			0.0270	U	0.0270	U	0.0270	U		
Antimony			0.00380	U	0.00380	U	0.00380	U		
Arsenic			0.00208	U	0.00208	U	0.00208	U		
Barium			0.00174	U	0.00174	U	0.00174	U		
Beryllium			0.000330	U	0.000330	U	0.000330	U		
Cadmium			0.000980	U	0.000980	U	0.000980	U		
Calcium			0.0350	U	0.0410	J	0.0350	U		
Chromium			0.000960	U	0.000960	U	0.000960	U		
Cobalt			0.00166	U	0.00166	U	0.00166	U		
Copper			0.00258	U	0.00258	U	0.00258	U		
Iron			0.0123	J	0.0186	J	0.0110	J		
Lead			0.00268	U	0.00268	U	0.00268	U		
Magnesium			0.0154	U	0.0154	U	0.0154	U		
Manganese			0.00159	U	0.00159	U	0.00159	U		
Nickel			0.00242	U	0.00242	U	0.00242	U		
Potassium			0.144	U	0.144	U	0.144	U		
Selenium			0.00258	U	0.00300	J	0.00258	U		
Silver			0.00283	U	0.00283	U	0.00283	U		
Sodium			0.0315	U	0.0315	U	0.0368	J		
Thallium			0.00315	U	0.00315	U	0.00315	U		
Vanadium			0.00203	U	0.00203	U	0.00203	U		
Zinc			0.00293	U	0.00293	U	0.00293	U		

Form 3
Blanks

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: TRACE5		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1138393-35							
Date Analyzed :			12/06/18 03:06							
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Aluminum			0.0270	U						
Antimony			0.00380	U						
Arsenic			0.00208	U						
Barium			0.00174	U						
Beryllium			0.000330	U						
Cadmium			0.000980	U						
Calcium			0.0350	U						
Chromium			0.000960	U						
Cobalt			0.00166	U						
Copper			0.00258	U						
Iron			0.00903	U						
Lead			0.00268	U						
Magnesium			0.0154	U						
Manganese			0.00159	U						
Nickel			0.00242	U						
Potassium			0.144	U						
Selenium			0.00258	U						
Silver			0.00283	U						
Sodium			0.112	J						
Thallium			0.00315	U						
Vanadium			0.00203	U						
Zinc			0.00293	U						

Form 3
Blanks

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: TRACE6		

		Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID	:	R1138742-4		R1138742-7		R1138742-9		R1138742-11			
Date Analyzed	:	12/06/18 08:38		12/06/18 09:20		12/06/18 10:38		12/06/18 11:15			
Parameter		mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Magnesium		0.0154	U	0.0154	U	0.0154	U	0.0154	U		

Form 3
Blanks

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: TRACE6		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1138742-13		R1138742-15		R1138742-17			
Date Analyzed :			12/06/18 12:15		12/06/18 13:21		12/06/18 14:23			
Parameter	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**		**Q**
Magnesium			**0.0154**	**U**	**0.0154**	**U**	**0.0154**	**U**		

Form 3
Blanks

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: TRACE6		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1138742-19							
Date Analyzed :			12/06/18 15:22							
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Magnesium			0.0154	U						

Form 4a
Interference Check Sample

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: TRACE5	**Concentration Units**	: mg/L

	True		Initial Found				Final Found			
Lab ID :			R1138393-5							
Analysis Date :			12/05/18 13:28							
Analyte	**Sol. A**	**Sol. AB**	**Sol. A**	**%R**	**Sol. AB**	**%R**	**Sol. A**	**%R**	**Sol. AB**	**%R**
Aluminum	250		292.	117						
Antimony			-0.00730							
Arsenic			0.00240							
Barium			0.000800							
Beryllium			0.00							
Cadmium			0.00110							
Calcium	250		277.	111						
Chromium			0.000800							
Cobalt			0.00							
Copper			-0.00880							
Iron	100		108.	108						
Lead			0.00310							
Magnesium	250		256.	102						
Manganese			0.00280							
Nickel			-0.00430							
Potassium			0.0208							
Selenium			0.00830							
Silver			0.000800							
Sodium			0.0889							
Thallium			0.000500							
Vanadium			0.000400							
Zinc			0.00650							

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%

Form 4a
Interference Check Sample

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: TRACE6	**Concentration Units**	: mg/L

	True		Initial Found				Final Found			
Lab ID :			R1138742-5							
Analysis Date :			12/06/18 09:03							
Analyte	Sol. A	Sol. AB	Sol. A	%R	Sol. AB	%R	Sol. A	%R	Sol. AB	%R
Magnesium	250		262.	105						

Acceptance Criteria: Methods 200.7, 200.8, 6010, 6020

ICSA: 80-120%

ICSAB: 80-120%

Form 5a
Matrix Spike

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Client Sample ID	: CB-03	Matrix	: SOIL
Lab Sample ID	: L1849060-03		
Matrix Spike	: WG1186031-3	MS Analysis Date	: 12/05/18 23:54
Matrix Spike Dup	: WG1186031-4	MSD Analysis Date	: 12/05/18 23:59

		Matrix Spike Sample				Matrix Spike Duplicate						
Parameter	Sample Conc. (mg/kg)	Spike Added (mg/kg)	Spike Conc. (mg/kg)	%R		Spike Added (mg/kg)	Spike Conc. (mg/kg)	%R		RPD		Recovery Limits	RPD Limit
Aluminum, Total	7340	314	8040	223	Q	313	8780	460	Q	9		75-125	20
Antimony, Total	17.4	78.5	85.3	86		78.2	86.1	88		1		75-125	20
Arsenic, Total	13.5	18.8	29.4	84		18.8	28.8	82		2		75-125	20
Barium, Total	233	314	444	67	Q	313	460	73	Q	4		75-125	20
Beryllium, Total	0.279J	7.85	7.36	94		7.82	7.11	91		3		75-125	20
Cadmium, Total	10.3	8	16.7	80		7.97	15.7	68	Q	6		75-125	20
Calcium, Total	33600	1570	29400	0	Q	1560	47300	876	Q	47	Q	75-125	20
Chromium, Total	189	31.4	365	561	Q	31.3	206	54	Q	56	Q	75-125	20
Cobalt, Total	11.2	78.5	79.8	87		78.2	77.7	85		3		75-125	20
Copper, Total	2700	39.2	2000	0	Q	39.1	4790	5350	Q	82	Q	75-125	20
Iron, Total	39300	157	34700	0	Q	156	37000	0	Q	6		75-125	20
Lead, Total	1340	80	1190	0	Q	79.7	1180	0	Q	1		75-125	20
Magnesium, Total	5310	1570	6620	83		1560	7070	112		7		75-125	20
Manganese, Total	318	78.5	369	65	Q	78.2	434	148	Q	16		75-125	20
Nickel, Total	152	78.5	256	132	Q	78.2	216	82		17		75-125	20
Potassium, Total	650	1570	2020	87		1560	2010	87		0		75-125	20
Selenium, Total	1.01J	18.8	17.3	92		18.8	16.7	89		4		75-125	20
Silver, Total	14.0	47.1	63.4	105		46.9	62.1	102		2		75-125	20
Sodium, Total	161J	1570	1640	104		1560	1650	106		1		75-125	20
Thallium, Total	ND	18.8	14.6	78		18.8	13.5	72	Q	8		75-125	20
Vanadium, Total	37.9	78.5	110	92		78.2	109	91		1		75-125	20
Zinc, Total	1760	78.5	2340	739	Q	78.2	1750	0	Q	29	Q	75-125	20

Form 5b
Post Digest Spike Recovery

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Client Sample ID	: CB-03	**Matrix**	: SOIL
Lab Sample ID	: L1849060-03		
Post Spike	: WG1186031-5	**PS Analysis Date**	: 12/06/18 00:03

		Post Spike Sample			
Parameter	Sample Conc. (mg/kg)	Spike Added (mg/kg)	Spike Conc. (mg/kg)	%R	Recovery Limits
Aluminum, Total	7340	310	7220	0	75-125
Barium, Total	233	310	506	88	75-125
Cadmium, Total	10.3	7.9	17.1	86	75-125
Calcium, Total	33600	1550	33100	0	75-125
Chromium, Total	189	31	206	55	75-125
Copper, Total	2700	38.7	2570	0	75-125
Iron, Total	39300	155	37100	0	75-125
Lead, Total	1340	79	1340	0	75-125
Manganese, Total	318	77.4	368	64	75-125
Nickel, Total	152	77.4	212	77	75-125
Thallium, Total	ND	18.6	15.2	82	75-125
Zinc, Total	1760	77.4	1730	0	75-125

Form 7
Laboratory Control Sample

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Client Sample ID	: NA	**Matrix**	: SOIL
Lab Sample ID	: WG1186031-2	**LCS Analysis Date**	: 12/05/18 23:45
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (mg/kg)	Found (mg/kg)	%R	True (mg/kg)	Found (mg/kg)	%R	RPD	Recovery Limits	RPD Limit
Aluminum, Total	8160	5000	61.					49-150	20
Antimony, Total	60.9	93.1	153.					1-199	20
Arsenic, Total	135.	122.	90.					83-117	20
Barium, Total	443.	374.	84.					83-118	20
Beryllium, Total	197.	168.	85.					83-116	20
Cadmium, Total	204.	185.	91.					83-118	20
Chromium, Total	132.	111.	84.					83-117	20
Cobalt, Total	179.	155.	86.					84-116	20
Copper, Total	184.	154.	84.					84-116	20
Iron, Total	14400	11100	77.					61-139	20
Lead, Total	216.	190.	88.					82-118	20
Manganese, Total	323.	272.	84.					82-118	20
Nickel, Total	152.	133.	88.					83-117	20
Potassium, Total	2050	1500	73.					70-130	20
Selenium, Total	74.9	67.9	91.					79-121	20
Silver, Total	53.9	46.2	86.					80-120	20
Sodium, Total	1420	1240	87.					74-126	20
Thallium, Total	232.	209.	90.					81-119	20
Vanadium, Total	172.	140.	81.					80-120	20
Zinc, Total	211.	180.	85.					81-118	20

Form 7
Laboratory Control Sample

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Client Sample ID	: NA	**Matrix**	: SOIL
Lab Sample ID	: WG1186031-2	**LCS Analysis Date**	: 12/06/18 01:31
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
	True	Found	%R	True	Found	%R	RPD	Recovery	RPD
Parameter	(mg/kg)	(mg/kg)		(mg/kg)	(mg/kg)			Limits	Limit
Calcium, Total	4830	4260	88.					82-118	20

Form 7
Laboratory Control Sample

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Client Sample ID	: NA	**Matrix**	: SOIL
Lab Sample ID	: WG1186031-2	**LCS Analysis Date**	: 12/06/18 15:08
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
	True	Found	%R	True	Found	%R	RPD	Recovery	RPD
Parameter	(mg/kg)	(mg/kg)		(mg/kg)	(mg/kg)			Limits	Limit
Magnesium, Total	2340	2250	96.					76-124	20

Form 8
Serial Dilutions

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Client Sample ID	: CB-03	**Matrix**	: SOIL
Lab Sample ID	: L1849060-03	**Analysis Date**	: 12/05/18 23:50
Serial Dilution ID	: WG1186031-6	**Analysis Date**	: 12/06/18 00:12

Parameter	Initial Sample Result (mg/kg)	Serial Dilution Result (mg/kg)	% Difference	%D Limit
Aluminum, Total	7340	7620	4	20
Barium, Total	233	236	1	20
Calcium, Total	33600	34400	2	20
Chromium, Total	189	198	5	20
Copper, Total	2700	2760	2	20
Iron, Total	39300	41400	5	20
Lead, Total	1340	1420	6	20
Magnesium, Total	5310	5850	10	20
Manganese, Total	318	334	5	20
Nickel, Total	152	161	6	20
Zinc, Total	1760	1870	6	20

U.S. EPA - CLP
10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument: TRACE4 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	__
Aluminum	396.15	0.0000000	0.0000020	-0.0000310	-0.0000090	
Antimony	206.83	-0.0000020	0.0000040	-0.0000110	-0.0000050	
Arsenic	189.04	0.0000090	-0.0000010	-0.0000700	0.0000000	
Barium	455.40	-0.0000040	-0.0000020	-0.0000110	-0.0000010	
Beryllium	313.40	-0.0000020	-0.0000020	-0.0000050	0.0000000	
Cadmium	214.44	0.0000000	-0.0000030	0.0000000	-0.0000010	
Calcium	315.89	0.0000780	0.0000000	-0.0000170	0.0000710	
Chromium	267.72	0.0000050	-0.0000020	0.0000120	0.0000000	
Cobalt	228.62	-0.0000120	-0.0000060	-0.0000250	-0.0000020	
Copper	324.75	-0.0000030	-0.0000020	-0.0000040	0.0000110	
Iron	259.94	0.0000180	-0.0000120	0.0000000	-0.0000030	
Lead	220.35	0.0001100	-0.0000010	0.0000180	-0.0000010	
Magnesium	279.08	-0.0000540	-0.0000280	0.0000190	0.0000000	
Manganese	257.61	-0.0000030	-0.0000020	-0.0000080	0.0000020	
Mercury						
Nickel	231.60	-0.0000130	-0.0000050	-0.0000240	-0.0000020	
Potassium	766.49	-0.0012590	-0.0007040	-0.0028490	-0.0002350	
Selenium	196.09	-0.0000200	0.0000000	-0.0000290	-0.0000010	
Silver	328.07	-0.0000040	-0.0000020	-0.0000090	-0.0000010	
Sodium	589.59	-0.0006160	-0.0005220	-0.0020960	-0.0001600	
Thallium	190.86	-0.0000060	-0.0000040	-0.0000050	-0.0000010	
Vanadium	292.40	-0.0000050	-0.0000030	0.0000100	-0.0000020	
Zinc	206.20	0.0002750	0.0000030	-0.0007990	-0.0000040	

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____

Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____

ICP-AES Instrument ID: TRACE4 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Sb	As	Ba	Be	Cd
Aluminum	396.15	0.0000000	0.0000000	0.0000000	-0.0022950	-0.0018570
Antimony	206.83	0.0000000	0.0000000	0.0000000	-0.0003900	-0.0000120
Arsenic	189.04	0.0000000	0.0000000	0.0000210	-0.0001780	-0.0001730
Barium	455.40	0.0000000	0.0000000	0.0000000	-0.0002050	-0.0002030
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000860
Cadmium	214.44	0.0000000	0.0000000	0.0000000	-0.0002090	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	-0.0020880	-0.0018790
Chromium	267.72	0.0000000	0.0000000	0.0000000	-0.0002010	-0.0003100
Cobalt	228.62	0.0000000	0.0000000	0.0000000	-0.0004810	-0.0004970
Copper	324.75	0.0000000	0.0000000	0.0000000	-0.0002330	-0.0002260
Iron	259.94	0.0000000	0.0000000	0.0000000	-0.0012310	-0.0009570
Lead	220.35	0.0000000	0.0000000	0.0000000	-0.0001700	-0.0001850
Magnesium	279.08	0.0000000	0.0000000	0.0000000	-0.0022440	-0.0017830
Manganese	257.61	0.0000000	0.0000000	0.0000000	-0.0001950	-0.0002020
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	-0.0005490	-0.0005200
Potassium	766.49	0.0000000	0.0000000	0.0000000	-0.0522980	-0.0517110
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000060	0.0000030
Silver	328.07	0.0000000	0.0000000	0.0000000	-0.0001740	-0.0001560
Sodium	589.59	0.0000000	0.0000000	0.0000000	-0.0417330	-0.0407400
Thallium	190.86	0.0000000	0.0000000	0.0000000	-0.0002650	-0.0002240
Vanadium	292.40	0.0000000	0.0000000	0.0000000	-0.0002090	-0.0002040
Zinc	206.20	0.0000000	0.0000000	0.0000000	-0.0000320	-0.0009250

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE4 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cr	Co	Cu	Pb	Mn
Aluminum	396.15	-0.0020320	-0.0005350	-0.0005960	0.0000000	-0.0003930
Antimony	206.83	0.0049920	-0.0001600	-0.0001410	0.0000000	-0.0001780
Arsenic	189.04	0.0002670	-0.0001290	-0.0000570	0.0000000	-0.0000030
Barium	455.40	-0.0002000	-0.0000500	-0.0000660	0.0000000	-0.0000350
Beryllium	313.40	-0.0000900	-0.0000220	-0.0000300	0.0000000	-0.0000110
Cadmium	214.44	-0.0000290	-0.0000520	-0.0000680	0.0000000	-0.0000270
Calcium	315.89	-0.0020720	0.0009940	-0.0005720	0.0000000	-0.0000920
Chromium	267.72	0.0000000	-0.0000480	-0.0000690	0.0000000	0.0001140
Cobalt	228.62	-0.0005870	0.0000000	-0.0001660	0.0000000	-0.0000740
Copper	324.75	-0.0002130	-0.0000490	0.0000000	0.0000000	0.0000300
Iron	259.94	-0.0010370	-0.0002940	-0.0003760	0.0000000	-0.0001890
Lead	220.35	-0.0001960	-0.0003260	0.0002710	0.0000000	0.0000640
Magnesium	279.08	-0.0024620	-0.0005640	-0.0008730	0.0000000	-0.0069760
Manganese	257.61	-0.0002060	-0.0000480	-0.0000750	0.0000000	0.0000000
Mercury						
Nickel	231.60	-0.0005230	-0.0002210	-0.0001810	0.0000000	-0.0000730
Potassium	766.49	-0.0512430	-0.0126240	-0.0178480	0.0000000	-0.0089880
Selenium	196.09	-0.0000520	0.0000530	-0.0000240	0.0000000	0.0003780
Silver	328.07	-0.0001430	-0.0000370	-0.0000450	0.0000000	0.0001940
Sodium	589.59	-0.0407180	-0.0097580	-0.0137660	0.0000000	-0.0070470
Thallium	190.86	-0.0000390	0.0020440	-0.0000840	-0.0000200	0.0003990
Vanadium	292.40	-0.0002210	-0.0000500	-0.0000650	0.0000000	0.0001060
Zinc	206.20	-0.0012900	0.0000070	0.0003430	0.0001200	-0.0001520

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE4 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Ni	K	Se	Ag	Na
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____

Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____

ICP-AES Instrument: TRACE5 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Mo
Aluminum	396.15	0.0000000	0.0000960	0.0000000	0.0000000	0.0573510
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0016160
Arsenic	189.04	-0.0000310	0.0000000	0.0000000	0.0000000	0.0009550
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000010	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0009910
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000120
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0004030
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0003010	0.0000000	0.0000210	0.0000000	-0.0026290
Magnesium	279.08	0.0000000	0.0000000	0.0001760	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000340	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000180
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000310	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____

Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____

ICP-AES Instrument ID: TRACE5 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Sb	As	Ba	Be	Cd
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE5 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cr	Co	Cu	Pb	Mn
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0114090	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0003850	-0.0000480	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0007800	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	-0.0092850
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	-0.0001620	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000620	0.0000000	0.0000000	0.0006770
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	-0.0019910	0.0000000	0.0000000	0.0000000	-0.0004360
Zinc	206.20					

Comments:

U.S. EPA - CLP
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ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE5 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Ni	K	Se	Ag	Na
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000930	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0002270	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	-0.0003390	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE5 Date: 12/01/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Tl	V	Zn		
Aluminum	396.15	0.0000000	0.0000000	0.0000000		
Antimony	206.83	0.0000000	0.0000000	0.0000000		
Arsenic	189.04	0.0000000	0.0000000	0.0000000		
Barium	455.40	0.0000000	0.0000000	0.0000000		
Beryllium	313.40	0.0000000	0.0018940	0.0000000		
Cadmium	214.44	0.0000000	0.0000000	0.0000000		
Calcium	315.89	0.0000000	0.0000000	0.0000000		
Chromium	267.72	0.0000000	0.0000000	0.0000000		
Cobalt	228.62	0.0017990	0.0000000	0.0000000		
Copper	324.75	0.0000000	-0.0003720	0.0000000		
Iron	259.94	0.0000000	0.0000000	0.0000000		
Lead	220.35	0.0000000	-0.0001170	0.0000000		
Magnesium	279.08	0.0000000	0.0000000	0.0000000		
Manganese	257.61	0.0000000	0.0000000	0.0000000		
Mercury						
Nickel	231.60	0.0005790	0.0000000	0.0000000		
Potassium	766.49	0.0000000	0.0000000	0.0000000		
Selenium	196.09	0.0000000	0.0000000	0.0000000		
Silver	328.07	0.0000000	-0.0017200	0.0000000		
Sodium	589.59	0.0000000	0.0000000	0.0000000		
Thallium	190.86	0.0000000	0.0002820	0.0000000		
Vanadium	292.40	0.0000000	0.0000000	0.0000000		
Zinc	206.20	0.0000000	0.0000000	0.0000000		

Comments:

U.S. EPA - CLP
10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____

Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____

ICP-AES Instrument: TRACE6 Date: 11/10/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Mo
Aluminum	396.15	0.0000000	0.0000960	0.0000000	0.0000000	0.0573510
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0016160
Arsenic	189.04	-0.0000310	0.0000000	0.0000000	0.0000000	0.0009550
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000010	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0009910
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000120
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0004030
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0003010	0.0000000	0.0000210	0.0000000	-0.0026290
Magnesium	279.08	0.0000000	0.0000000	0.0001760	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000340	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000180
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000310	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract: _____

Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____

ICP-AES Instrument ID: TRACE6 Date: 11/10/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Sb	As	Ba	Be	Cd
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE6 Date: 11/10/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cr	Co	Cu	Pb	Mn
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0114090	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0003850	-0.0000480	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0007800	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	-0.0092850
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	-0.0001620	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000620	0.0000000	0.0000000	0.0006770
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	-0.0019910	0.0000000	0.0000000	0.0000000	-0.0004360
Zinc	206.20					

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE6 Date: 11/10/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Ni	K	Se	Ag	Na
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000930	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0002270	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	-0.0003390	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument ID: TRACE6 Date: 11/10/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Tl	V	Zn		
Aluminum	396.15	0.0000000	0.0000000	0.0000000		
Antimony	206.83	0.0000000	0.0000000	0.0000000		
Arsenic	189.04	0.0000000	0.0000000	0.0000000		
Barium	455.40	0.0000000	0.0000000	0.0000000		
Beryllium	313.40	0.0000000	0.0018940	0.0000000		
Cadmium	214.44	0.0000000	0.0000000	0.0000000		
Calcium	315.89	0.0000000	0.0000000	0.0000000		
Chromium	267.72	0.0000000	0.0000000	0.0000000		
Cobalt	228.62	0.0017990	0.0000000	0.0000000		
Copper	324.75	0.0000000	-0.0003720	0.0000000		
Iron	259.94	0.0000000	0.0000000	0.0000000		
Lead	220.35	0.0000000	-0.0001170	0.0000000		
Magnesium	279.08	0.0000000	0.0000000	0.0000000		
Manganese	257.61	0.0000000	0.0000000	0.0000000		
Mercury						
Nickel	231.60	0.0005790	0.0000000	0.0000000		
Potassium	766.49	0.0000000	0.0000000	0.0000000		
Selenium	196.09	0.0000000	0.0000000	0.0000000		
Silver	328.07	0.0000000	-0.0017200	0.0000000		
Sodium	589.59	0.0000000	0.0000000	0.0000000		
Thallium	190.86	0.0000000	0.0002820	0.0000000		
Vanadium	292.40	0.0000000	0.0000000	0.0000000		
Zinc	206.20	0.0000000	0.0000000	0.0000000		

Comments:

U.S. EPA - CLP
10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument: TRACE7 Date: 05/17/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Mo
Aluminum	396.15	0.0000000	0.0000960	0.0000000	0.0000000	0.0573510
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0016160
Arsenic	189.04	0.0001500	0.0000000	-0.0004550	0.0000000	0.0038670
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000380	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0009910
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000120
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0004030
Iron	259.94	0.0000000	0.0000000	0.0000340	0.0000000	0.0000000
Lead	220.35	0.0001750	0.0000000	0.0002100	0.0000000	-0.0026290
Magnesium	279.08	0.0000000	0.0000000	0.0001760	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	-0.0000350	0.0000000	0.0000000	0.0000000	0.0000180
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000100	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument: TRACE7 Date: 05/17/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Sb	As	Ba	Be	Cd
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument: TRACE7 Date: 05/17/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cr	Co	Cu	Pb	Mn
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0114090	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0017890	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0007800	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	-0.0092850
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	-0.0001620	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000620	0.0000000	0.0000000	0.0006770
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	-0.0019910	0.0000000	0.0000000	0.0000000	-0.0004360
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument: TRACE7 Date: 05/17/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Ni	K	Se	Ag	Na
Aluminum	396.15	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	455.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	214.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	315.89	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000930	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	259.94	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0002270	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	-0.0003390	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Mercury						
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.09	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.59	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.20	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

U.S. EPA - CLP
10B-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Alpha Analytical Contract:

Lab Code: AAL Case No.: NRAS No.: SDG No.:

ICP-AES Instrument: TRACE7 Date: 05/17/16

Analyte	Wave-length (nm)	Interelement Correction Factors for: Tl	V	Zn		
Aluminum	396.15	0.0000000	0.0000000	0.0000000		
Antimony	206.83	0.0000000	0.0000000	0.0000000		
Arsenic	189.04	0.0000000	0.0000000	0.0000000		
Barium	455.40	0.0000000	0.0000000	0.0000000		
Beryllium	313.40	0.0000000	0.0018940	0.0000000		
Cadmium	214.44	0.0000000	0.0000000	0.0000000		
Calcium	315.89	0.0000000	0.0000000	0.0000000		
Chromium	267.72	0.0000000	0.0000000	0.0000000		
Cobalt	228.62	0.0017990	0.0000000	0.0000000		
Copper	324.75	0.0000000	0.0000000	0.0000000		
Iron	259.94	0.0000000	0.0000000	0.0000000		
Lead	220.35	0.0000000	-0.0001170	0.0000000		
Magnesium	279.08	0.0000000	0.0000000	0.0000000		
Manganese	257.61	0.0000000	0.0000000	0.0000000		
Mercury						
Nickel	231.60	0.0005790	0.0000000	0.0000000		
Potassium	766.49	0.0000000	0.0000000	0.0000000		
Selenium	196.09	0.0000000	0.0000000	0.0000000		
Silver	328.07	0.0000000	0.0000000	0.0000000		
Sodium	589.59	0.0000000	0.0000000	0.0000000		
Thallium	190.86	0.0000000	0.0000000	0.0000000		
Vanadium	292.40	0.0011610	0.0000000	0.0000000		
Zinc	206.20	0.0000000	0.0000000	0.0000000		

Comments:

U.S. EPA - CLP
11-IN
ICP-AES AND ICP-MS LINEAR RANGES (QUARTERLY)

Lab Name: Alpha Analytical Contract: _____

Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____

ICP Instrument ID: TRACE4 Date: 12/01/16

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	M
Aluminum		5000.0	
Antimony		25.0	
Arsenic		100.0	
Barium		100.0	
Beryllium		50.0	
Cadmium		25.0	
Calcium		500.0	
Chromium		50.0	
Cobalt		100.0	
Copper		100.0	
Iron		750.0	
Lead		500.0	
Magnesium		500.0	
Manganese		100.0	
Mercury			
Nickel		100.0	
Potassium		1000.0	
Selenium		100.0	
Silver		100.0	
Sodium		1000.0	
Thallium		200.0	
Vanadium		100.0	
Zinc		50.0	

Comments:

U.S. EPA - CLP
11-IN
ICP-AES AND ICP-MS LINEAR RANGES (QUARTERLY)

Lab Name: Alpha Analytical Contract: _____

Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____

ICP Instrument ID: TRACE5 Date: 12/01/16

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	M
Aluminum		1000.0	
Antimony		100.0	
Arsenic		50.0	
Barium		50.0	
Beryllium		50.0	
Cadmium		50.0	
Calcium		1000.0	
Chromium		50.0	
Cobalt		50.0	
Copper		100.0	
Iron		500.0	
Lead		200.0	
Magnesium		1000.0	
Manganese		100.0	
Mercury			
Nickel		200.0	
Potassium		1000.0	
Selenium		20.0	
Silver		100.0	
Sodium		1000.0	
Thallium		500.0	
Vanadium		100.0	
Zinc		20.0	

Comments:

U.S. EPA - CLP
11-IN
ICP-AES AND ICP-MS LINEAR RANGES (QUARTERLY)

Lab Name: Alpha Analytical Contract: _____

Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____

ICP Instrument ID: TRACE6 Date: 11/10/16

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	M
Aluminum		750.0	
Antimony		100.0	
Arsenic		100.0	
Barium		20.0	
Beryllium		10.0	
Cadmium		10.0	
Calcium		750.0	
Chromium		10.0	
Cobalt		100.0	
Copper		50.0	
Iron		500.0	
Lead		100.0	
Magnesium		750.0	
Manganese		10.0	
Mercury			
Nickel		50.0	
Potassium		750.0	
Selenium		100.0	
Silver		10.0	
Sodium		500.0	
Thallium		100.0	
Vanadium		100.0	
Zinc		50.0	

Comments:

U.S. EPA - CLP
11-IN
ICP-AES AND ICP-MS LINEAR RANGES (QUARTERLY)

Lab Name: Alpha Analytical Contract: _____

Lab Code: AAL Case No.: _____ NRAS No.: _____ SDG No.: _____

ICP Instrument ID: TRACE7 Date: 05/17/16

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	M
Aluminum		700.0	
Antimony		5.0	
Arsenic		100.0	
Barium		15.0	
Beryllium		10.0	
Cadmium		100.0	
Calcium		1000.0	
Chromium		50.0	
Cobalt		5.0	
Copper		100.0	
Iron		500.0	
Lead		100.0	
Magnesium		1000.0	
Manganese		100.0	
Mercury			
Nickel		25.0	
Potassium		1000.0	
Selenium		25.0	
Silver		10.0	
Sodium		450.0	
Thallium		25.0	
Vanadium		100.0	
Zinc		25.0	

Comments:

Form 12
Preparation Log

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Matrix	: SOIL	**Prep Method**	: EPA 3050B

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L1849060-02	12/05/18 21:00	1.27	-
L1849060-03	12/05/18 21:00	1.29	-
L1849060-04	12/05/18 21:00	1.32	-
L1849060-05	12/05/18 21:00	1.31	-
L1849060-06	12/05/18 21:00	1.30	-
WG1186031-1	12/05/18 21:00	1.25	-
WG1186031-2	12/05/18 21:00	0.39	-
WG1186031-3	12/05/18 21:00	1.28	-
WG1186031-4	12/05/18 21:00	1.28	-
WG1186031-5	12/05/18 21:00	1.29	-
WG1186031-6	12/05/18 21:00	1.29	-

Form 12
Preparation Log

Client	:	**CHA Companies**	**Lab Number**	:	**L1849060**
Project Name	:	**700 SMITH BLVD**	**Project Number**	:	**29852.1202.44000**
Matrix	:	**SOIL**	**Prep Method**	:	**EPA 3050B**

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
WG1186031-2	12/05/18 21:00	0.39	-

Form 13
Analysis Run Log

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: TRACE5	**Analysis Method**	: 1,6010D
Start Date	: 12/05/18 13:01	**End Date**	: 12/06/18 03:06

Sample Number	Dilution Factor	Analysis Time	Aluminum, Total	Antimony, Total	Arsenic, Total	Barium, Total	Beryllium, Total	Cadmium, Total	Calcium, Total	Chromium, Total	Cobalt, Total	Copper, Total	Iron, Total	Lead, Total	Magnesium, Total	Manganese, Total	Nickel, Total	Potassium, Total	Selenium, Total	Silver, Total	Sodium, Total	Thallium, Total	Vanadium, Total	Zinc, Total
R1138393-3 ICV	1	13:01:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1138393-4 ICB	1	13:05:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1138393-5 ICSA	1	13:28:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1138393-6 CCV	1	13:35:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1138393-7 CCB	1	13:39:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1138393-8 CCV	1	14:20:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1138393-9 CCB	1	14:25:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1138393-10 ICV	1	14:48:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1138393-11 ICB	1	14:53:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1138393-12 CCV	1	15:46:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1138393-13 CCB	1	15:50:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1138393-14 CCV	1	16:41:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1138393-15 CCB	1	16:45:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1138393-16 CCV	1	17:36:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1138393-17 CCB	1	17:40:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1138393-18 CCV	1	18:31:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1138393-19 CCB	1	18:35:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1138393-20 CCV	1	19:50:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1138393-21 CCB	1	19:54:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1138393-22 CCV	1	20:46:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1138393-23 CCB	1	20:51:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1138393-24 CCV	1	21:37:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1138393-25 CCB	1	21:41:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1138393-26 ICV	1	22:19:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1138393-27 ICB	1	22:23:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1186031-1 BLANK	1	23:41:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1186031-2 LCS	2	23:45:00	X	X	X	X	X	X		X	X	X	X	X		X	X	X	X	X	X	X	X	X

Form 13
Analysis Run Log

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: TRACE5	**Analysis Method**	: 1,6010D
Start Date	: 12/05/18 13:01	**End Date**	: 12/06/18 03:06

Sample Number	Dilution Factor	Analysis Time	Aluminum, Total	Antimony, Total	Arsenic, Total	Barium, Total	Beryllium, Total	Cadmium, Total	Calcium, Total	Chromium, Total	Cobalt, Total	Copper, Total	Iron, Total	Lead, Total	Magnesium, Total	Manganese, Total	Nickel, Total	Potassium, Total	Selenium, Total	Silver, Total	Sodium, Total	Thallium, Total	Vanadium, Total	Zinc, Total
L1849060-03	2	23:50:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1186031-3 MS	2	23:54:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1186031-4 MSD	2	23:59:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1186031-5 PS	2	00:03:00	X			X		X	X	X		X	X	X		X	X					X		X
WG1186031-6 SERDIL	10	00:12:00	X			X			X	X		X	X	X	X	X	X							X
R1138393-28 CCV	1	00:26:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1138393-29 CCB	1	00:31:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L1849060-02	2	00:54:00	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	
L1849060-04	2	00:59:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L1849060-05	2	01:04:00	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X
L1849060-06	2	01:08:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1138393-30 CCV	1	01:22:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1138393-31 CCB	1	01:27:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WG1186031-2 LCS	2	01:31:00							X															
R1138393-32 CCV	1	02:18:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1138393-33 CCB	1	02:23:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
L1849060-02	20	02:42:00											X											X
L1849060-05	20	02:46:00											X											
R1138393-34 CCV	1	03:02:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
R1138393-35 CCB	1	03:06:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Form 13
Analysis Run Log

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	:	**Analysis Method**	:
Start Date	: 12/06/18 08:33	**End Date**	: 12/06/18 15:22

Sample Number	Dilution Factor	Analysis Time	Magnesium, Total
R1138742-3 ICV	1	08:33:00	X
R1138742-4 ICB	1	08:38:00	X
R1138742-5 ICSA	1	09:03:00	X
R1138742-6 CCV	1	09:15:00	X
R1138742-7 CCB	1	09:20:00	X
R1138742-8 CCV	1	10:33:00	X
R1138742-9 CCB	1	10:38:00	X
R1138742-10 CCV	1	11:10:00	X
R1138742-11 CCB	1	11:15:00	X
R1138742-12 CCV	1	12:10:00	X
R1138742-13 CCB	1	12:15:00	X
R1138742-14 CCV	1	13:16:00	X
R1138742-15 CCB	1	13:21:00	X
R1138742-16 CCV	1	14:18:00	X
R1138742-17 CCB	1	14:23:00	X
WG1186031-2 LCS	8	15:08:00	X
R1138742-18 CCV	1	15:18:00	X
R1138742-19 CCB	1	15:22:00	X

Date Created: 11/04/16
Created By: Jason Hebert
File: PM2960-2
Page: 1

METALS by 200.7, 6010C (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Aluminum	7429-90-5	0.1	0.0318	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Antimony	7440-36-0	0.05	0.0071	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Arsenic	7440-38-2	0.005	0.0019	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Barium	7440-39-3	0.01	0.0021	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Beryllium	7440-41-7	0.005	0.0009	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Cadmium	7440-43-9	0.005	0.001	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Calcium	7440-70-2	0.1	0.035	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Chromium	7440-47-3	0.01	0.0021	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Cobalt	7440-48-4	0.02	0.0017	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Copper	7440-50-8	0.01	0.0022	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Iron	7439-89-6	0.05	0.009	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Lead	7439-92-1	0.01	0.0027	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Magnesium	7439-95-4	0.1	0.0153	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Manganese	7439-96-5	0.01	0.0016	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Nickel	7440-02-0	0.025	0.0024	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Potassium	7440-09-7	2.5	0.237	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Selenium	7782-49-2	0.01	0.0035	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Silver	7440-22-4	0.007	0.0028	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Sodium	7440-23-5	2	0.12	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Thallium	7440-28-0	0.02	0.0025	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Vanadium	7440-62-2	0.01	0.002	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved
Zinc	7440-66-6	0.05	0.0021	mg/l	85-115		75-125	20	20		180 days	1 - Plastic 500ml HNO3 preserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 11/04/16
Created By: Jason Hebert
File: PM2962-1
Page: 1

METALS by 6010C (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Aluminum, Total	7429-90-5	4	1.08	mg/kg	48-151		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Antimony, Total	7440-36-0	2	0.152	mg/kg	1-208		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Arsenic, Total	7440-38-2	0.4	0.0832	mg/kg	79-121		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Barium, Total	7440-39-3	0.4	0.0696	mg/kg	83-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Beryllium, Total	7440-41-7	0.2	0.0132	mg/kg	83-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Cadmium, Total	7440-43-9	0.4	0.0392	mg/kg	83-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Calcium, Total	7440-70-2	4	1.4	mg/kg	81-119		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Chromium, Total	7440-47-3	0.4	0.0384	mg/kg	80-120		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Cobalt, Total	7440-48-4	0.8	0.0664	mg/kg	84-115		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Copper, Total	7440-50-8	0.4	0.1032	mg/kg	81-118		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Iron, Total	7439-89-6	2	0.3612	mg/kg	45-155		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Lead, Total	7439-92-1	2	0.1072	mg/kg	81-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Magnesium, Total	7439-95-4	4	0.616	mg/kg	76-124		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Manganese, Total	7439-96-5	0.4	0.0636	mg/kg	81-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Nickel, Total	7440-02-0	1	0.0968	mg/kg	83-117		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Potassium, Total	7440-09-7	100	5.76	mg/kg	71-129		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Selenium, Total	7782-49-2	0.8	0.1032	mg/kg	78-122		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Silver, Total	7440-22-4	0.4	0.1132	mg/kg	75-124		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Sodium, Total	7440-23-5	80	1.26	mg/kg	72-127		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Thallium, Total	7440-28-0	0.8	0.126	mg/kg	80-120		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Vanadium, Total	7440-62-2	0.4	0.0812	mg/kg	78-122		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved
Zinc, Total	7440-66-6	2	0.1172	mg/kg	82-118		75-125	20	20		180 days	1 - Metals Only - Glass 60mL/2oz unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. ***(Soil/Solids only)***
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Sample Name: Std 0 Acquired: 12/5/2018 12:31:12 Type: Cal
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: IR Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

REVIEWED
By drm at 10:20 am, Dec 06, 2018

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.0016**	**.0139**	**-.0005**	**-.0009**	**-.0039**	**.0047**	**.0005**	**.0053**	**.0017**	**.0006**
Stddev	.0001	.0029	.0003	.0001	.0030	.0009	.0004	.0008	.0003	.0002
%RSD	4.844	20.90	59.55	7.938	77.67	19.82	78.48	14.58	17.64	29.67
#1	-.0016	.0113	-.0005	-.0009	-.0004	.0037	.0003	.0062	.0020	.0007
#2	-.0015	.0170	-.0002	-.0010	-.0060	.0055	.0009	.0049	.0015	.0008
#3	-.0017	.0133	-.0008	-.0010	-.0053	.0049	.0003	.0049	.0015	.0004

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.0010**	**.0057**	**.0009**	**-.0125**	**.0053**	**.0008**	**.0010**	**-.0457**	**-.0004**	**-.0013**
Stddev	.0002	.0003	.0000	.0013	.0009	.0002	.0001	.0032	.0003	.0003
%RSD	16.57	5.037	2.203	10.58	17.71	18.75	7.739	7.055	82.01	25.30
#1	-.0009	.0055	.0009	-.0125	.0047	.0007	.0009	-.0478	-.0007	-.0011
#2	-.0012	.0057	.0009	-.0138	.0063	.0010	.0010	-.0473	-.0002	-.0017
#3	-.0009	.0060	.0009	-.0112	.0047	.0007	.0009	-.0420	-.0002	-.0012

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0001**	**-.0004**	**.0032**	**.0000**	**-.0386**	**-.0012**	**-.0013**	**-.0003**	**.0058**
Stddev	.0002	.0001	.0001	.0001	.0016	.0003	.0001	.0002	.0002
%RSD	114.9	18.84	4.499	1289.	4.124	22.40	11.49	56.10	2.619
#1	.0002	-.0003	.0033	.0001	-.0399	-.0016	-.0012	-.0005	.0059
#2	.0003	-.0004	.0030	.0000	-.0391	-.0012	-.0012	-.0002	.0058
#3	-.0000	-.0005	.0032	-.0001	-.0369	-.0010	-.0014	-.0003	.0056

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4369.1**	**33318.**	**3959.5**
Stddev	29.4	249.	19.4
%RSD	.67255	.74592	.49017
#1	4397.0	33035.	3939.8
#2	4371.9	33501.	3960.2
#3	4338.4	33418.	3978.6

Sample Name: ICAL Acquired: 12/5/2018 12:35:50 Type: Cal
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: IR Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.2546**	**.2006**	**.1310**	**.4991**	**9.017**	**6.075**	**.2074**	**.1066**	**6.150**	**1.335**
Stddev	.0004	.0023	.0008	.0013	.030	.023	.0007	.0012	.028	.007
%RSD	.1706	1.128	.5772	.2678	.3342	.3723	.3185	1.171	.4600	.5392
#1	.2551	.1985	.1306	.4980	9.052	6.101	.2069	.1069	6.134	1.331
#2	.2543	.2004	.1306	.4986	9.004	6.067	.2072	.1052	6.133	1.330
#3	.2544	.2030	.1319	.5006	8.996	6.058	.2081	.1076	6.182	1.343

Elem	Cr2677	Cu3247	Fe2599	Mg2790	Mn2576R	Mo2020	Ni2316	Pb2203	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.2214**	**.5159**	**.1811**	**.3757**	**1.246**	**1.078**	**1.021**	**.3810**	**.1430**	**.1075**
Stddev	.0003	.0005	.0006	.0028	.008	.007	.004	.0022	.0018	.0004
%RSD	.1142	.1048	.3489	.7513	.6419	.6497	.4316	.5817	1.293	.3436
#1	.2212	.5162	.1817	.3782	1.256	1.074	1.018	.3805	.1416	.1073
#2	.2217	.5153	.1812	.3726	1.243	1.074	1.019	.3790	.1422	.1073
#3	.2215	.5161	.1805	.3764	1.240	1.086	1.026	.3834	.1451	.1080

Elem	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.1705**	**.2835**	**6.994**	**.5183**	**.1975**	**.4201**	**1.974**
Stddev	.0008	.0019	.027	.0009	.0007	.0005	.010
%RSD	.4886	.6792	.3921	.1734	.3708	.1268	.4957
#1	.1714	.2824	7.023	.5181	.1969	.4196	1.969
#2	.1702	.2824	6.991	.5175	.1973	.4206	1.967
#3	.1699	.2857	6.968	.5193	.1983	.4202	1.985

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4394.1**	**33336.**	**4004.9**
Stddev	20.8	98.	25.4
%RSD	.47238	.29530	.63546
#1	4410.7	33414.	3983.8
#2	4400.9	33226.	4033.2
#3	4370.8	33368.	3997.8

Sample Name: Std Al Fe K Na Si Acquired: 12/5/2018 12:40:12 Type: Cal
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: IR Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Al3961	Fe2599	K_7664	Na5895	Si2124
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4.159**	**4.162**	**1.966**	**7.165**	**1.945**
Stddev	.005	.006	.001	.020	.009
%RSD	.1324	.1412	.0682	.2849	.4589
#1	4.156	4.167	1.965	7.144	1.938
#2	4.166	4.163	1.967	7.185	1.941
#3	4.156	4.155	1.964	7.166	1.955

Int. Std.	Y_2243	Y_3710
Units	Cts/S	Cts/S
Avg	**4387.8**	**4001.0**
Stddev	28.0	27.9
%RSD	.63773	.69749
#1	4413.3	4027.4
#2	4392.4	3971.8
#3	4357.9	4004.0

Sample Name: Std Ca Mg Si Acquired: 12/5/2018 12:44:48 Type: Cal
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: IR Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ca3158	Mg2790	Si2124
Units	Cts/S	Cts/S	Cts/S
Avg	**.9290**	**3.653**	**.9535**
Stddev	.0017	.034	.0036
%RSD	.1785	.9210	.3802
#1	.9277	3.672	.9509
#2	.9309	3.672	.9520
#3	.9286	3.614	.9577

Int. Std.	Y_2243	Y_3710
Units	Cts/S	Cts/S
Avg	**4443.8**	**4018.5**
Stddev	7.3	25.3
%RSD	.16480	.62986
#1	4451.7	3999.8
#2	4442.5	4008.4
#3	4437.3	4047.3

Sample Name: ICV Acquired: 12/5/2018 12:49:39 Type: QC
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W .4720	W .5280	W .4714	.4843	W .4719	W .4586	-.0021	W .4625	W .4685	W .4658
Stddev	.0012	.0112	.0008	.0030	.0028	.0038	.0016	.0074	.0028	.0031
%RSD	.2456	2.114	.1628	.6094	.5967	.8358	78.46	1.598	.6034	.6678
#1	.4732	.5256	.4706	.4837	.4748	.4623	-.0004	.4641	.4673	.4644
#2	.4720	.5183	.4715	.4817	.4692	.4546	-.0036	.4545	.4665	.4636
#3	.4708	.5402	.4721	.4875	.4718	.4590	-.0021	.4690	.4718	.4693
Check ?	Chk Warn	Chk Warn	Chk Warn	Chk Pass	Chk Warn	Chk Warn	None	Chk Warn	Chk Warn	Chk Warn
High Limit	.5274	.5274	.5274		.5274	.5274		.5274	.5274	.5274
Low Limit	.4726	.4726	.4726		.4726	.4726		.4726	.4726	.4726

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W .4689	W .4632	.4996	4.992	.4868	.4796	W .4582	10.04	W .4643	.4774
Stddev	.0016	.0007	.0057	.037	.0016	.0045	.0035	.10	.0028	.0014
%RSD	.3397	.1448	1.135	.7377	.3370	.9294	.7603	1.028	.6015	.2957
#1	.4707	.4640	.5031	4.967	.4876	.4843	.4553	10.16	.4627	.4781
#2	.4683	.4629	.4930	4.974	.4849	.4755	.4573	9.955	.4626	.4758
#3	.4677	.4628	.5026	5.034	.4879	.4790	.4621	10.02	.4675	.4783
Check ?	Chk Warn	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Warn	Chk Pass
High Limit	.5274	.5274					.5274		.5274	
Low Limit	.4726	.4726					.4726		.4726	

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4786	.4787	4.990	W .4637	W .4516	W .4574	W .4683	.4780	W .4596
Stddev	.0025	.0026	.028	.0030	.0026	.0012	.0023	.0015	.0025
%RSD	.5175	.5390	.5629	.6372	.5688	.2612	.4905	.3182	.5507
#1	.4787	.4806	4.981	.4613	.4542	.4588	.4669	.4797	.4583
#2	.4761	.4758	4.968	.4627	.4490	.4570	.4671	.4774	.4580
#3	.4810	.4798	5.022	.4670	.4516	.4565	.4710	.4768	.4625
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Warn	Chk Warn	Chk Warn	Chk Pass	Chk Warn
High Limit				.5274	.5274	.5274	.5274		.5274
Low Limit				.4726	.4726	.4726	.4726		.4726

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	4460.9	33797.	4043.1
Stddev	27.6	91.	8.8
%RSD	.61778	.26977	.21879
#1	4475.5	33699.	4033.1
#2	4478.0	33814.	4049.8
#3	4429.1	33879.	4046.3

Sample Name: ICB Acquired: 12/5/2018 12:55:32 Type: QC
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008**	**-.0064**	**.0010**	**.0010**	**.0003**	**-.0000**	**.0007**	**-.0019**	**-.0000**	**.0002**
Stddev	.0007	.0019	.0007	.0009	.0001	.0001	.0017	.0090	.0000	.0002
%RSD	97.62	29.86	74.96	86.86	22.62	413.1	227.1	478.8	156.8	70.39
#1	.0013	-.0048	.0002	.0014	.0004	.0001	-.0012	.0018	.0000	.0004
#2	-.0001	-.0058	.0016	.0017	.0003	-.0001	.0020	.0047	-.0000	.0003
#3	.0010	-.0085	.0012	.0000	.0003	-.0001	.0014	-.0121	-.0001	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**-.0001**	**.0039**	**-.0288**	**-.0010**	**.0007**	**.0014**	**-.0042**	**.0006**	**-.0001**
Stddev	.0006	.0002	.0016	.0168	.0011	.0001	.0001	.0078	.0004	.0011
%RSD	206.3	301.3	41.40	58.19	107.4	11.49	7.360	184.5	68.54	888.9
#1	.0009	-.0001	.0024	-.0171	-.0002	.0007	.0015	-.0125	.0010	-.0007
#2	.0004	.0001	.0055	-.0481	-.0023	.0007	.0014	.0031	.0004	.0012
#3	-.0004	-.0002	.0037	-.0213	-.0007	.0008	.0013	-.0033	.0003	-.0008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0005**	**.0003**	**-.0015**	**.0022**	**-.0000**	**.0006**	**-.0004**	**-.0000**	**.0022**
Stddev	.0022	.0008	.0016	.0005	.0002	.0005	.0007	.0007	.0001
%RSD	424.6	318.4	103.3	21.55	846.9	82.86	166.3	2926.	2.834
#1	.0014	-.0005	-.0000	.0027	.0001	.0008	-.0010	-.0006	.0023
#2	-.0029	.0012	-.0032	.0019	-.0003	.0009	-.0005	-.0003	.0023
#3	-.0001	.0001	-.0014	.0019	.0001	.0000	.0003	.0008	.0022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4488.1**	**34200.**	**4074.0**
Stddev	38.0	46.	18.0
%RSD	.84742	.13568	.44168
#1	4505.2	34207.	4062.0
#2	4514.5	34242.	4065.3
#3	4444.5	34150.	4094.7

Sample Name: ICV Acquired: 12/5/2018 13:01:21 Type: QC
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W .4671	.5100	.4729	.4774	W .4646	W .4540	-.0022	W .4542	W .4677	W .4678
Stddev	.0022	.0148	.0054	.0031	.0004	.0013	.0007	.0099	.0030	.0028
%RSD	.4664	2.901	1.141	.6552	.0936	.2835	32.62	2.170	.6310	.5929
#1	.4652	.4935	.4745	.4794	.4650	.4542	-.0021	.4500	.4687	.4697
#2	.4666	.5143	.4669	.4738	.4642	.4526	-.0030	.4470	.4644	.4646
#3	.4694	.5222	.4773	.4790	.4647	.4551	-.0016	.4654	.4701	.4690
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Warn	None	Chk Warn	Chk Warn	Chk Warn
High Limit	.5274				.5274	.5274		.5274	.5274	.5274
Low Limit	.4726				.4726	.4726		.4726	.4726	.4726

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W .4704	W .4655	.4938	4.851	.4763	W .4722	W .4625	9.492	W .4647	.4795
Stddev	.0015	.0019	.0021	.027	.0024	.0021	.0027	.029	.0034	.0033
%RSD	.3129	.4023	.4320	.5480	.5132	.4450	.5791	.3004	.7379	.6847
#1	.4712	.4645	.4917	4.834	.4775	.4735	.4636	9.505	.4662	.4795
#2	.4687	.4643	.4935	4.881	.4735	.4698	.4594	9.459	.4608	.4763
#3	.4714	.4676	.4960	4.836	.4780	.4734	.4644	9.512	.4671	.4828
Check ?	Chk Warn	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Warn	Chk Pass	Chk Warn	Chk Pass
High Limit	.5274	.5274				.5274	.5274		.5274	
Low Limit	.4726	.4726				.4726	.4726		.4726	

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4737	.4747	W 4.952	.5226	W .4490	W .4586	W .4673	.4765	W .4580
Stddev	.0016	.0030	.032	.0032	.0010	.0005	.0037	.0014	.0034
%RSD	.3349	.6372	.6375	.6190	.2287	.1040	.7882	.2954	.7348
#1	.4745	.4762	4.971	.5240	.4501	.4581	.4700	.4774	.4594
#2	.4719	.4712	4.915	.5189	.4483	.4586	.4631	.4749	.4541
#3	.4748	.4765	4.969	.5248	.4485	.4590	.4688	.4772	.4603
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Warn	Chk Warn	Chk Warn	Chk Pass	Chk Warn
High Limit			5.538		.5274	.5274	.5274		.5274
Low Limit			4.962		.4726	.4726	.4726		.4726

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	4416.0	33785.	4073.1
Stddev	20.3	88.	6.3
%RSD	.45906	.25960	.15440
#1	4413.5	33684.	4075.0
#2	4437.4	33837.	4078.2
#3	4397.1	33834.	4066.1

Sample Name: ICB Acquired: 12/5/2018 13:05:47 Type: QC
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0014**	**-.0087**	**.0000**	**.0018**	**.0000**	**-.0000**	**.0012**	**-.0086**	**.0000**	**.0000**
Stddev	.0013	.0116	.0009	.0004	.0003	.0002	.0007	.0081	.0000	.0001
%RSD	92.38	132.7	2698.	20.45	1020.	399.7	56.01	94.08	191.6	142.5
#1	.0006	.0020	.0002	.0022	.0002	.0001	.0019	-.0178	.0000	.0000
#2	.0030	-.0071	.0008	.0014	-.0004	-.0001	.0005	-.0022	-.0000	-.0000
#3	.0008	-.0211	-.0009	.0018	.0003	-.0002	.0013	-.0060	.0000	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**-.0002**	**.0041**	**.0155**	**-.0036**	**.0009**	**.0017**	**.0115**	**.0009**	**.0009**
Stddev	.0004	.0004	.0017	.0246	.0032	.0003	.0004	.0160	.0003	.0003
%RSD	274.3	272.2	41.43	159.4	88.54	34.37	24.51	139.6	35.29	39.31
#1	-.0002	-.0004	.0052	.0116	-.0039	.0009	.0022	.0121	.0007	.0010
#2	.0005	.0003	.0021	.0418	-.0003	.0011	.0016	-.0048	.0008	.0011
#3	.0001	-.0004	.0049	-.0070	-.0066	.0006	.0014	.0271	.0013	.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0007**	**-.0000**	**-.0014**	**.0021**	**.0003**	**.0003**	**.0005**	**-.0000**	**.0021**
Stddev	.0021	.0005	.0015	.0004	.0002	.0005	.0006	.0005	.0001
%RSD	290.1	1532.	104.3	21.16	61.11	142.6	130.6	1200.	3.416
#1	.0005	.0003	-.0008	.0022	.0001	.0005	.0004	-.0006	.0020
#2	-.0031	-.0006	-.0004	.0016	.0004	.0007	-.0001	.0002	.0021
#3	.0005	.0002	-.0031	.0024	.0003	-.0002	.0011	.0003	.0020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4472.6**	**34277.**	**4062.8**
Stddev	27.0	115.	42.7
%RSD	.60364	.33690	1.0500
#1	4491.0	34222.	4036.0
#2	4485.2	34410.	4040.3
#3	4441.6	34199.	4112.0

Sample Name: 0.005 Acquired: 12/5/2018 13:10:27 Type: QC
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0060**	**-.0044**	**.0052**	**.0073**	**.0050**	**.0045**	**.0052**	**-.0164**	**.0045**	**.0046**
Stddev	.0008	.0126	.0010	.0003	.0002	.0001	.0010	.0111	.0001	.0002
%RSD	12.89	284.8	19.42	4.295	4.434	2.151	18.78	67.60	1.139	3.648
#1	.0051	-.0164	.0041	.0069	.0050	.0046	.0058	-.0171	.0045	.0047
#2	.0061	-.0056	.0053	.0075	.0052	.0044	.0058	-.0271	.0045	.0044
#3	.0067	.0088	.0061	.0074	.0048	.0044	.0041	-.0050	.0046	.0046
Check ?	Chk Pass	None	Chk Pass	None	None	Chk Pass	None	None	Chk Pass	None
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0044**	**.0040**	**.0047**	**.0282**	**-.0000**	**.0044**	**.0052**	**.0007**	**.0050**	**.0057**
Stddev	.0010	.0009	.0015	.0189	.0017	.0003	.0001	.0105	.0004	.0009
%RSD	22.12	21.49	32.25	67.23	3689.	7.658	2.205	1483.	8.080	14.97
#1	.0043	.0048	.0052	.0482	-.0019	.0041	.0051	.0071	.0053	.0049
#2	.0035	.0031	.0059	.0259	.0014	.0043	.0053	.0065	.0052	.0066
#3	.0055	.0040	.0030	.0105	.0004	.0048	.0051	-.0114	.0045	.0056
Check ?	None	None	None	None	None	None	None	None	None	None
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0032**	**.0022**	**.0010**	**.0053**	**.0045**	**.0045**	**.0048**	**.0045**	**.0034**
Stddev	.0005	.0008	.0010	.0009	.0003	.0006	.0005	.0005	.0001
%RSD	15.80	38.48	107.9	17.44	6.991	12.21	10.52	10.79	2.400
#1	.0038	.0030	.0008	.0052	.0047	.0046	.0045	.0043	.0035
#2	.0029	.0022	.0020	.0063	.0042	.0039	.0054	.0041	.0034
#3	.0030	.0013	.0000	.0045	.0047	.0050	.0046	.0051	.0033
Check ?	None	None	None	None	None	None	None	None	None
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4510.3**	**34693.**	**4085.5**
Stddev	27.6	79.	5.3
%RSD	.61260	.22911	.13028
#1	4522.3	34721.	4088.8
#2	4530.0	34755.	4088.3
#3	4478.7	34604.	4079.3

Sample Name: 0.01 Acquired: 12/5/2018 13:15:02 Type: QC
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0097**	**.0037**	**.0100**	**.0110**	**.0099**	**.0092**	W **.0121**	**-.0005**	**.0094**	**.0096**
Stddev	.0003	.0154	.0015	.0002	.0004	.0001	.0004	.0140	.0000	.0002
%RSD	3.584	411.0	14.62	2.249	4.044	.9010	3.259	2937.	.4945	1.954
#1	.0096	.0068	.0116	.0112	.0103	.0093	.0123	-.0052	.0094	.0096
#2	.0100	-.0129	.0087	.0111	.0095	.0092	.0124	.0153	.0094	.0094
#3	.0093	.0174	.0097	.0107	.0099	.0092	.0117	-.0115	.0095	.0098
Check ?	None	None	None	Chk Pass	Chk Pass	None	Chk Warn	None	None	Chk Pass
Value							.0121			
Range							.0080			

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0100**	**.0093**	**.0106**	**.0960**	**.0044**	**.0095**	**.0099**	**.0162**	**.0097**	**.0104**
Stddev	.0003	.0002	.0037	.0584	.0019	.0002	.0002	.0062	.0005	.0002
%RSD	3.390	2.128	35.02	60.86	42.37	1.644	2.200	37.92	4.898	2.138
#1	.0101	.0091	.0149	.0513	.0063	.0095	.0097	.0170	.0095	.0105
#2	.0102	.0095	.0086	.0747	.0026	.0094	.0098	.0220	.0102	.0106
#3	.0096	.0093	.0083	.1622	.0042	.0097	.0101	.0097	.0094	.0102
Check ?	Chk Pass	Chk Pass	None	None	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
Value										
Range										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0078**	**.0088**	**.0057**	**.0093**	**.0092**	**.0094**	**.0093**	**.0093**	**.0084**
Stddev	.0012	.0012	.0012	.0006	.0001	.0001	.0010	.0003	.0001
%RSD	14.97	13.75	21.19	6.701	.9051	1.302	11.29	3.054	1.017
#1	.0065	.0075	.0044	.0090	.0092	.0095	.0099	.0094	.0083
#2	.0085	.0098	.0068	.0100	.0093	.0093	.0099	.0090	.0084
#3	.0085	.0091	.0060	.0088	.0092	.0094	.0081	.0095	.0084
Check ?	None	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value									
Range									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4488.3**	**34037.**	**4035.3**
Stddev	26.4	192.	20.9
%RSD	.58713	.56413	.51910
#1	4498.8	34022.	4012.6
#2	4507.9	33852.	4039.6
#3	4458.4	34236.	4053.8

Sample Name: 0.05 Acquired: 12/5/2018 13:19:38 Type: QC
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0355**	W **.0392**	**.0324**	**.0366**	**.0353**	**.0342**	**.0346**	W **.0634**	**.0342**	**.0345**
Stddev	.0015	.0059	.0008	.0002	.0000	.0002	.0014	.0062	.0002	.0001
%RSD	4.241	15.04	2.573	.4859	.1309	.6640	3.934	9.759	.6071	.3704
#1	.0368	.0404	.0318	.0366	.0353	.0343	.0359	.0705	.0341	.0345
#2	.0359	.0328	.0321	.0364	.0354	.0343	.0347	.0589	.0341	.0344
#3	.0338	.0444	.0334	.0367	.0353	.0339	.0332	.0609	.0345	.0346
Check ?	None	Chk Warn	None	None	None	None	None	Chk Warn	None	None
Value		.0602						.0602		
Range		.0398						.0398		

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0349**	**.0340**	**.0407**	W **1.811**	**.0447**	**.0357**	**.0345**	W **1.498**	**.0339**	**.0347**
Stddev	.0011	.0005	.0014	.009	.0029	.0005	.0003	.013	.0005	.0012
%RSD	3.245	1.402	3.544	.5007	6.461	1.498	.7901	.8469	1.431	3.407
#1	.0344	.0342	.0420	1.816	.0456	.0355	.0344	1.493	.0335	.0351
#2	.0342	.0343	.0409	1.817	.0470	.0354	.0344	1.512	.0337	.0334
#3	.0362	.0334	.0391	1.801	.0415	.0364	.0348	1.488	.0344	.0357
Check ?	None	None	Chk Pass	Chk Warn	Chk Pass	None	None	Chk Warn	None	None
Value				3.012				2.410		
Range				1.988				1.590		

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F **.0323**	**.0332**	W **.3507**	**.0339**	**.0340**	**.0345**	**.0341**	F **.0343**	F **.0321**
Stddev	.0017	.0012	.0034	.0003	.0004	.0006	.0013	.0004	.0001
%RSD	5.258	3.543	.9773	.7933	1.288	1.703	3.725	1.232	.3842
#1	.0311	.0320	.3504	.0337	.0343	.0346	.0355	.0346	.0321
#2	.0342	.0344	.3474	.0339	.0343	.0339	.0331	.0345	.0319
#3	.0316	.0333	.3542	.0342	.0335	.0351	.0337	.0338	.0322
Check ?	Chk Fail	None	Chk Warn	None	None	None	None	Chk Fail	Chk Fail
Value	.0652		.6024					.0652	.0652
Range	.0348		.3976					.0348	.0348

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4469.6**	**33836.**	**4010.0**
Stddev	40.3	94.	21.7
%RSD	.90058	.27839	.54059
#1	4492.1	33801.	4016.8
#2	4493.7	33764.	4027.5
#3	4423.2	33942.	3985.8

Sample Name: IPC Acquired: 12/5/2018 13:24:10 Type: QC
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0020**	F **.2967**	**.0007**	**.0008**	**.0003**	**-.0046**	**.0073**	**-.0427**	**-.0002**	**-.0004**
Stddev	.0003	.0621	.0020	.0002	.0002	.0005	.0018	.0024	.0000	.0003
%RSD	16.14	20.92	276.3	21.65	72.00	10.03	24.79	5.708	6.218	64.93
#1	.0017	.3612	-.0002	.0007	.0001	-.0041	.0071	-.0409	-.0002	-.0003
#2	.0020	.2917	-.0007	.0010	.0006	-.0048	.0093	-.0416	-.0002	-.0007
#3	.0024	.2373	.0030	.0007	.0003	-.0049	.0057	-.0454	-.0002	-.0002
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit		.1000								
Low Limit		-.2000								

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.491**	**.0002**	**.0079**	**-.0035**	**-.0195**	**9.338**	**-.0004**	**.0077**	**-.0019**	**.0006**
Stddev	.010	.0007	.0018	.0594	.0071	.045	.0001	.0121	.0002	.0008
%RSD	.1100	433.8	23.35	1700.	36.34	.4875	24.98	157.0	9.974	150.2
#1	9.483	-.0007	.0082	.0648	-.0143	9.386	-.0003	.0123	-.0022	.0009
#2	9.489	.0007	.0059	-.0438	-.0276	9.333	-.0003	-.0060	-.0018	.0012
#3	9.503	.0005	.0095	-.0314	-.0166	9.295	-.0005	.0169	-.0018	-.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0185**	**.0032**	**.0118**	**.0005**	**-.0000**	**.0020**	**-.0007**	**9.430**	**-.0043**
Stddev	.0019	.0020	.0007	.0007	.0001	.0003	.0007	.005	.0000
%RSD	10.46	62.06	5.799	123.4	1406.	16.41	100.6	.0551	.5369
#1	-.0164	.0041	.0125	.0006	-.0001	.0024	-.0014	9.435	-.0043
#2	-.0193	.0009	.0111	.0012	-.0000	.0018	-.0004	9.425	-.0043
#3	-.0200	.0046	.0119	-.0001	.0001	.0018	-.0002	9.430	-.0043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4372.5**	**33803.**	**4000.0**
Stddev	14.1	110.	35.6
%RSD	.32347	.32666	.89111
#1	4383.7	33769.	3963.0
#2	4377.1	33926.	4003.1
#3	4356.6	33713.	4034.1

Sample Name: ICSA Acquired: 12/5/2018 13:28:45 Type: QC
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008**	**291.5**	**.0024**	**.0019**	**.0008**	**.0000**	**.0088**	**277.0**	**.0011**	**-.0000**
Stddev	.0012	.5	.0002	.0006	.0001	.0002	.0004	.2	.0000	.0002
%RSD	160.8	.1756	8.893	31.81	14.78	432.6	4.347	.0877	1.543	718.2
#1	-.0005	291.1	.0024	.0022	.0010	-.0000	.0084	277.1	.0011	.0001
#2	.0020	291.5	.0027	.0012	.0008	.0002	.0090	276.7	.0011	-.0003
#3	.0009	292.1	.0022	.0023	.0008	-.0001	.0090	277.1	.0011	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008**	**-.0088**	**108.1**	**.0208**	**256.4**	**.0028**	**.0011**	**.0889**	**-.0043**	**.0031**
Stddev	.0008	.0007	.2	.0312	.6	.0003	.0005	.0133	.0001	.0006
%RSD	95.04	8.132	.1589	150.3	.2432	11.88	40.45	14.92	2.580	17.78
#1	.0010	-.0080	108.0	-.0140	256.1	.0031	.0006	.0962	-.0043	.0038
#2	.0014	-.0094	108.2	.0464	257.1	.0027	.0015	.0969	-.0044	.0029
#3	-.0000	-.0090	108.3	.0298	256.0	.0025	.0013	.0735	-.0042	.0027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0073**	**.0083**	**.0034**	**-.0004**	**.0085**	**.0062**	**.0005**	**.0004**	**.0065**
Stddev	.0016	.0025	.0010	.0007	.0001	.0006	.0011	.0005	.0001
%RSD	22.00	30.36	29.63	161.3	1.353	8.922	236.8	118.3	1.577
#1	-.0089	.0112	.0045	.0004	.0085	.0061	.0018	-.0001	.0066
#2	-.0057	.0064	.0025	-.0009	.0085	.0068	.0000	.0009	.0066
#3	-.0073	.0074	.0031	-.0007	.0087	.0057	-.0004	.0004	.0064
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4085.3**	**30425.**	**3926.1**
Stddev	38.6	85.	25.5
%RSD	.94447	.27992	.64985
#1	4109.5	30489.	3910.6
#2	4105.5	30459.	3955.5
#3	4040.8	30328.	3912.2

Sample Name: CCV Acquired: 12/5/2018 13:35:32 Type: QC
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4677**	**.5241**	**.4689**	**.4745**	**.4631**	**.4506**	**-.0032**	**.4716**	**.4616**	**.4596**
Stddev	.0015	.0067	.0041	.0027	.0005	.0010	.0011	.0130	.0030	.0024
%RSD	.3188	1.273	.8661	.5784	.1022	.2294	34.47	2.762	.6494	.5310
#1	.4694	.5164	.4681	.4720	.4632	.4509	-.0022	.4614	.4595	.4579
#2	.4668	.5272	.4653	.4742	.4635	.4514	-.0044	.4863	.4602	.4586
#3	.4668	.5287	.4733	.4774	.4625	.4494	-.0030	.4671	.4650	.4624
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4614**	**.4567**	**.4950**	**4.864**	**.4834**	**.4697**	**.4522**	**9.673**	**.4572**	**.4747**
Stddev	.0028	.0011	.0027	.026	.0028	.0017	.0034	.059	.0030	.0039
%RSD	.6160	.2349	.5440	.5420	.5698	.3605	.7430	.6112	.6623	.8150
#1	.4638	.4573	.4930	4.894	.4847	.4679	.4493	9.625	.4557	.4720
#2	.4583	.4573	.4981	4.852	.4802	.4712	.4513	9.739	.4552	.4730
#3	.4623	.4554	.4939	4.845	.4852	.4698	.4559	9.656	.4607	.4791
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4671**	**.4699**	**4.923**	**.4564**	F **.4468**	**.4509**	**.4609**	**.4687**	**.4516**
Stddev	.0020	.0030	.026	.0035	.0010	.0007	.0037	.0006	.0028
%RSD	.4284	.6404	.5379	.7745	.2214	.1638	.8119	.1210	.6227
#1	.4648	.4686	4.905	.4549	.4475	.4518	.4576	.4691	.4495
#2	.4680	.4678	4.911	.4539	.4473	.4505	.4602	.4681	.4504
#3	.4685	.4734	4.953	.4605	.4457	.4504	.4650	.4691	.4548
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					.5524				
Low Limit					.4476				

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4496.0**	**34393.**	**4104.9**
Stddev	33.8	155.	14.8
%RSD	.75286	.45205	.36091
#1	4516.7	34450.	4113.1
#2	4514.5	34511.	4113.8
#3	4457.0	34217.	4087.8

Sample Name: CCB Acquired: 12/5/2018 13:39:58 Type: QC
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0016**	**-.0097**	**.0004**	**.0008**	**.0005**	**.0000**	**.0019**	**-.0025**	**-.0000**	**-.0002**
Stddev	.0007	.0074	.0012	.0003	.0002	.0002	.0008	.0053	.0000	.0001
%RSD	43.30	76.06	294.4	41.65	32.98	702.4	40.83	213.0	99.88	30.58
#1	.0021	-.0035	-.0010	.0007	.0006	.0001	.0011	-.0009	-.0000	-.0001
#2	.0018	-.0078	.0009	.0006	.0006	.0002	.0020	-.0084	-.0000	-.0002
#3	.0008	-.0179	.0014	.0012	.0003	-.0002	.0026	.0018	-.0000	-.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**-.0001**	**.0042**	**-.0649**	**-.0002**	**.0009**	**.0020**	**.0025**	**.0007**	**.0001**
Stddev	.0004	.0002	.0028	.0353	.0055	.0003	.0006	.0073	.0001	.0004
%RSD	1300.	143.1	66.49	54.43	2376.	36.73	29.77	291.0	15.18	369.3
#1	.0002	-.0001	.0010	-.0256	.0060	.0010	.0025	-.0056	.0006	.0005
#2	-.0004	-.0002	.0059	-.0940	-.0025	.0011	.0020	.0084	.0007	-.0002
#3	.0002	.0001	.0058	-.0751	-.0042	.0005	.0014	.0046	.0008	-.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0004**	**-.0022**	**-.0000**	**.0022**	**.0002**	**.0004**	**.0001**	**-.0002**	**.0020**
Stddev	.0006	.0013	.0009	.0003	.0002	.0005	.0006	.0006	.0002
%RSD	129.9	58.73	4053.	12.66	124.9	127.2	473.4	365.6	9.665
#1	-.0009	-.0009	.0004	.0019	.0001	.0001	.0008	-.0007	.0018
#2	-.0006	-.0021	-.0010	.0024	.0000	.0009	.0000	-.0001	.0020
#3	.0002	-.0035	.0006	.0023	.0004	.0001	-.0004	.0004	.0022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4499.3**	**34495.**	**4080.7**
Stddev	26.2	62.	12.0
%RSD	.58329	.18042	.29294
#1	4501.5	34503.	4088.6
#2	4524.4	34553.	4067.0
#3	4472.1	34429.	4086.7

Sample Name: 10 V Acquired: 12/5/2018 13:50:41 Type: QC
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0026**	**.0032**	**.0024**	**.0013**	**.0002**	**-.0049**	**-.0087**	**-.0100**	**-.0000**	**.0002**
Stddev	.0001	.0118	.0015	.0004	.0002	.0001	.0021	.0033	.0000	.0002
%RSD	2.466	365.0	61.88	32.62	142.9	2.440	24.67	32.36	135.3	112.7
#1	.0026	.0150	.0015	.0015	.0001	-.0049	-.0064	-.0135	-.0000	-.0000
#2	.0026	.0032	.0016	.0017	.0004	-.0047	-.0106	-.0070	-.0000	.0004
#3	.0025	-.0085	.0041	.0009	-.0000	-.0050	-.0089	-.0097	.0000	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0016**	**.0001**	**.0048**	**-.0117**	**-.0013**	**-.0009**	**.0007**	**-.0100**	**-.0005**	**-.0006**
Stddev	.0008	.0001	.0009	.0508	.0041	.0004	.0001	.0059	.0002	.0007
%RSD	49.76	266.6	19.01	434.3	326.2	42.87	7.732	59.17	31.11	112.1
#1	.0008	.0000	.0058	-.0525	-.0060	-.0005	.0007	-.0045	-.0003	-.0004
#2	.0015	.0002	.0041	.0452	.0009	-.0009	.0007	-.0163	-.0006	-.0015
#3	.0024	-.0001	.0044	-.0277	.0013	-.0013	.0006	-.0094	-.0006	-.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0054**	**-.0022**	**.0217**	**.0008**	**.0001**	**-.0002**	**-.0093**	F **9.283**	**-.0016**
Stddev	.0018	.0014	.0012	.0004	.0003	.0007	.0005	.011	.0001
%RSD	33.84	64.59	5.365	55.90	234.5	348.9	5.183	.1166	6.313
#1	.0067	-.0006	.0228	.0011	.0003	-.0002	-.0093	9.272	-.0016
#2	.0033	-.0025	.0218	.0009	.0003	.0005	-.0098	9.293	-.0017
#3	.0062	-.0034	.0205	.0003	-.0002	-.0009	-.0088	9.284	-.0015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit								.0100	
Low Limit								-.0100	

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4470.1**	**33779.**	**4063.5**
Stddev	30.4	90.	21.1
%RSD	.67910	.26724	.51843
#1	4495.8	33842.	4039.5
#2	4477.9	33676.	4079.1
#3	4436.6	33820.	4071.8

Sample Name: IPC Acquired: 12/5/2018 14:02:18 Type: QC
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0029**	**-.0040**	**.0010**	**.0008**	**.0005**	**-.0054**	**.0067**	**-.0390**	**-.0002**	**-.0002**
Stddev	.0009	.0086	.0009	.0003	.0000	.0003	.0019	.0091	.0000	.0002
%RSD	32.42	215.1	88.73	35.33	7.964	5.785	27.96	23.23	14.70	77.27
#1	.0019	-.0050	.0021	.0005	.0005	-.0056	.0076	-.0473	-.0001	-.0003
#2	.0030	-.0121	.0003	.0009	.0005	-.0056	.0045	-.0293	-.0002	-.0003
#3	.0037	.0051	.0008	.0010	.0004	-.0051	.0079	-.0404	-.0002	-.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.254**	**-.0000**	**.0038**	**-.0243**	**-.0188**	F **8.981**	**-.0005**	**-.0105**	**-.0018**	**.0004**
Stddev	.014	.0003	.0025	.0301	.0017	.023	.0001	.0013	.0002	.0015
%RSD	.1540	8788.	65.74	123.9	9.055	.2553	26.47	12.48	8.904	421.1
#1	9.256	.0003	.0035	-.0541	-.0170	8.968	-.0003	-.0102	-.0018	-.0014
#2	9.238	.0001	.0064	-.0247	-.0204	9.007	-.0006	-.0094	-.0020	.0014
#3	9.266	-.0004	.0015	.0060	-.0191	8.968	-.0006	-.0120	-.0017	.0011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						11.00				
Low Limit						9.000				

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0142**	**.0039**	**.0104**	**-.0003**	**.0004**	**.0021**	**-.0007**	**9.165**	**-.0044**
Stddev	.0008	.0026	.0001	.0003	.0004	.0003	.0009	.008	.0000
%RSD	5.717	65.70	.8953	88.95	102.0	13.91	132.9	.0844	.8069
#1	-.0143	.0047	.0103	-.0002	.0002	.0024	.0003	9.168	-.0044
#2	-.0150	.0060	.0104	-.0007	.0009	.0018	-.0014	9.156	-.0043
#3	-.0134	.0010	.0103	-.0001	.0002	.0019	-.0008	9.171	-.0044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4400.6**	**34124.**	**4076.8**
Stddev	31.8	135.	13.8
%RSD	.72158	.39696	.33830
#1	4428.0	34170.	4067.6
#2	4408.1	34229.	4092.7
#3	4365.8	33971.	4070.1

Sample Name: 0.05 Acquired: 12/5/2018 14:06:52 Type: QC
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0469**	F **.0304**	**.0448**	**.0471**	**.0450**	**.0440**	**.0453**	F **.0268**	**.0450**	**.0456**
Stddev	.0016	.0093	.0016	.0007	.0003	.0002	.0013	.0054	.0003	.0003
%RSD	3.381	30.52	3.659	1.475	.6021	.3574	2.880	19.99	.6502	.7483
#1	.0469	.0407	.0460	.0475	.0452	.0440	.0450	.0213	.0448	.0456
#2	.0453	.0275	.0430	.0475	.0450	.0441	.0467	.0272	.0448	.0452
#3	.0485	.0229	.0455	.0463	.0447	.0438	.0442	.0320	.0453	.0459
Check ?	None	Chk Fail	None	None	None	None	None	Chk Fail	None	None
Value		.0652						.0652		
Range		.0348						.0348		

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0461**	**.0453**	**.0480**	**2.313**	**.0422**	**.0451**	**.0445**	**1.879**	**.0451**	**.0461**
Stddev	.0004	.0007	.0021	.021	.0051	.0006	.0005	.009	.0002	.0006
%RSD	.9183	1.573	4.353	.9193	11.99	1.411	1.092	.4970	.5170	1.251
#1	.0465	.0455	.0467	2.310	.0475	.0458	.0441	1.889	.0449	.0465
#2	.0457	.0459	.0469	2.294	.0417	.0445	.0444	1.876	.0453	.0455
#3	.0461	.0445	.0504	2.336	.0374	.0450	.0451	1.871	.0452	.0465
Check ?	None	None	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass	None	None
Value										
Range										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0409**	**.0458**	**.4635**	**.0439**	**.0445**	**.0449**	**.0447**	**.0458**	**.0426**
Stddev	.0003	.0008	.0041	.0007	.0002	.0005	.0009	.0002	.0004
%RSD	.7336	1.793	.8912	1.505	.4609	1.037	1.928	.5438	.9091
#1	.0406	.0465	.4603	.0442	.0447	.0446	.0445	.0460	.0424
#2	.0411	.0449	.4621	.0432	.0444	.0446	.0456	.0460	.0425
#3	.0411	.0460	.4681	.0444	.0443	.0454	.0439	.0456	.0431
Check ?	Chk Pass	None	Chk Pass	None	None	None	None	Chk Pass	Chk Pass
Value									
Range									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4493.4**	**34571.**	**4094.2**
Stddev	33.7	252.	39.2
%RSD	.75030	.72869	.95859
#1	4504.9	34854.	4050.4
#2	4519.8	34371.	4105.9
#3	4455.4	34487.	4126.3

Sample Name: CCV Acquired: 12/5/2018 14:20:47 Type: QC
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4655**	**.5070**	**.4651**	**.4733**	**.4593**	F **.4453**	**-.0019**	**.4551**	**.4576**	**.4576**
Stddev	.0031	.0189	.0049	.0025	.0023	.0019	.0015	.0108	.0031	.0037
%RSD	.6663	3.725	1.053	.5355	.5035	.4357	81.56	2.377	.6748	.8076
#1	.4646	.5123	.4604	.4722	.4608	.4469	-.0021	.4474	.4552	.4551
#2	.4629	.5227	.4648	.4714	.4604	.4458	-.0032	.4674	.4565	.4559
#3	.4689	.4861	.4702	.4762	.4566	.4431	-.0002	.4504	.4611	.4618
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	None	Chk Pass	Chk Pass	Chk Pass
High Limit						.5524				
Low Limit						.4476				

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4580**	**.4537**	**.4833**	**4.827**	**.4719**	**.4635**	**.4488**	**9.554**	**.4541**	**.4700**
Stddev	.0013	.0009	.0025	.070	.0029	.0029	.0035	.011	.0029	.0026
%RSD	.2782	.1920	.5267	1.445	.6112	.6272	.7716	.1111	.6298	.5476
#1	.4570	.4534	.4829	4.854	.4709	.4659	.4461	9.561	.4517	.4677
#2	.4576	.4531	.4810	4.879	.4697	.4643	.4475	9.542	.4534	.4694
#3	.4594	.4547	.4860	4.748	.4752	.4603	.4527	9.559	.4572	.4728
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4661**	**.4657**	**4.886**	**.4523**	F **.4422**	F **.4469**	**.4590**	**.4654**	**.4485**
Stddev	.0044	.0040	.037	.0033	.0018	.0008	.0032	.0007	.0031
%RSD	.9456	.8491	.7574	.7228	.4054	.1866	.7039	.1436	.6868
#1	.4634	.4645	4.861	.4497	.4440	.4460	.4574	.4658	.4463
#2	.4637	.4624	4.869	.4512	.4423	.4477	.4570	.4657	.4471
#3	.4712	.4701	4.929	.4560	.4404	.4471	.4628	.4646	.4520
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit					.5524	.5524			
Low Limit					.4476	.4476			

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4513.5**	**34708.**	**4150.6**
Stddev	32.5	48.	9.0
%RSD	.72043	.13802	.21720
#1	4534.7	34750.	4142.0
#2	4529.7	34656.	4159.9
#3	4476.1	34717.	4150.0

Sample Name: CCB Acquired: 12/5/2018 14:25:13 Type: QC
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0018**	**-.0048**	**.0002**	**.0016**	**.0006**	**-.0000**	**-.0010**	**-.0031**	**.0000**	**.0001**
Stddev	.0010	.0028	.0001	.0002	.0003	.0001	.0010	.0038	.0000	.0002
%RSD	54.24	57.72	40.36	14.26	42.94	152.9	100.8	120.7	142.5	259.3
#1	.0020	-.0055	.0002	.0015	.0008	-.0001	-.0018	.0010	.0000	-.0002
#2	.0007	-.0018	.0001	.0014	.0003	.0000	-.0015	-.0065	-.0000	.0002
#3	.0027	-.0072	.0002	.0018	.0007	-.0000	.0002	-.0039	.0000	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0005**	**-.0004**	**.0040**	**-.0267**	**-.0013**	**.0009**	**.0019**	**.0030**	**.0006**	**.0004**
Stddev	.0005	.0003	.0010	.0656	.0001	.0001	.0002	.0266	.0003	.0010
%RSD	95.48	67.51	25.86	246.2	9.874	7.823	9.521	883.8	53.61	254.5
#1	-.0009	-.0001	.0051	-.0515	-.0012	.0009	.0020	-.0156	.0004	.0012
#2	-.0006	-.0005	.0033	-.0762	-.0014	.0009	.0019	-.0088	.0005	.0006
#3	.0000	-.0006	.0035	.0478	-.0012	.0008	.0017	.0334	.0010	-.0007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0002**	**-.0010**	**-.0012**	**.0021**	**.0006**	**.0008**	**.0007**	**.0003**	**.0020**
Stddev	.0014	.0015	.0006	.0004	.0002	.0003	.0007	.0004	.0001
%RSD	686.6	155.1	49.45	21.18	41.13	40.98	93.07	139.5	4.423
#1	-.0005	-.0027	-.0014	.0026	.0009	.0007	.0015	-.0002	.0021
#2	-.0015	-.0003	-.0005	.0019	.0004	.0012	.0003	.0006	.0019
#3	.0013	.0001	-.0016	.0018	.0005	.0006	.0004	.0004	.0020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4510.6**	**34430.**	**4085.2**
Stddev	33.6	242.	21.0
%RSD	.74490	.70218	.51405
#1	4539.2	34150.	4066.1
#2	4519.0	34570.	4107.7
#3	4473.6	34568.	4081.8

Sample Name: Std 0 Acquired: 12/5/2018 14:30:35 Type: Cal
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: IR Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.0014**	**.0125**	**-.0005**	**.0002**	**-.0020**	**.0039**	**.0008**	**.0042**	**.0015**	**.0006**
Stddev	.0001	.0010	.0000	.0004	.0017	.0003	.0001	.0017	.0003	.0002
%RSD	4.586	7.809	9.643	208.9	84.50	9.085	13.59	39.54	19.29	38.14
#1	-.0013	.0132	-.0005	.0006	-.0035	.0036	.0007	.0027	.0016	.0008
#2	-.0013	.0128	-.0005	-.0002	-.0002	.0037	.0009	.0060	.0017	.0004
#3	-.0014	.0113	-.0004	.0001	-.0024	.0043	.0009	.0039	.0011	.0004

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.0010**	**.0054**	**.0017**	**-.0128**	**.0043**	**.0005**	**.0015**	**-.0474**	**-.0001**	**-.0010**
Stddev	.0001	.0000	.0007	.0035	.0006	.0006	.0002	.0033	.0004	.0007
%RSD	10.46	.8220	42.40	27.36	13.97	124.1	12.95	7.070	260.1	67.89
#1	-.0009	.0054	.0025	-.0097	.0037	.0002	.0017	-.0435	-.0002	-.0011
#2	-.0011	.0053	.0012	-.0122	.0044	.0012	.0016	-.0495	.0002	-.0003
#3	-.0010	.0053	.0014	-.0166	.0049	.0001	.0013	-.0491	-.0005	-.0017

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.0002**	**-.0006**	**.0034**	**.0002**	**-.0384**	**-.0012**	**-.0012**	**-.0003**	**.0043**
Stddev	.0002	.0004	.0003	.0001	.0010	.0003	.0001	.0002	.0002
%RSD	134.6	63.31	8.660	62.16	2.619	24.28	6.122	65.02	5.461
#1	-.0001	-.0010	.0033	.0003	-.0383	-.0009	-.0012	-.0003	.0045
#2	.0000	-.0003	.0038	.0003	-.0375	-.0013	-.0011	-.0001	.0044
#3	-.0004	-.0005	.0033	.0001	-.0395	-.0015	-.0012	-.0004	.0040

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4477.1**	**34356.**	**4058.4**
Stddev	19.4	442.	18.4
%RSD	.43303	1.2873	.45255
#1	4490.3	34578.	4078.8
#2	4486.1	33847.	4043.0
#3	4454.8	34643.	4053.5

Sample Name: ICAL Acquired: 12/5/2018 14:35:13 Type: Cal
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: IR Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.2381**	**.1861**	**.1222**	**.4674**	**8.381**	**5.683**	**.1933**	**.0962**	**5.747**	**1.245**
Stddev	.0007	.0036	.0006	.0035	.039	.027	.0013	.0013	.025	.007
%RSD	.2849	1.930	.4651	.7510	.4593	.4710	.6621	1.302	.4388	.5875
#1	.2373	.1828	.1220	.4647	8.396	5.697	.1927	.0962	5.737	1.241
#2	.2385	.1900	.1218	.4660	8.410	5.700	.1924	.0974	5.728	1.240
#3	.2384	.1856	.1229	.4714	8.337	5.653	.1947	.0949	5.776	1.253

Elem	Cr2677	Cu3247	Fe2599	Mg2790	Mn2576R	Mo2020	Ni2316	Pb2203	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.2080**	**.4781**	**.1661**	**.3550**	**1.173**	**1.008**	**.9519**	**.3572**	**.1332**	**.0987**
Stddev	.0004	.0009	.0001	.0008	.006	.006	.0050	.0016	.0012	.0002
%RSD	.2034	.1826	.0571	.2231	.5078	.5945	.5267	.4619	.9357	.2482
#1	.2079	.4773	.1660	.3559	1.176	1.005	.9491	.3563	.1323	.0988
#2	.2076	.4781	.1662	.3545	1.177	1.005	.9489	.3562	.1326	.0984
#3	.2084	.4790	.1660	.3545	1.166	1.015	.9577	.3591	.1346	.0988

Elem	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.1528**	**.2646**	**6.526**	**.4853**	**.1842**	**.3938**	**1.827**
Stddev	.0007	.0015	.028	.0002	.0009	.0003	.008
%RSD	.4380	.5783	.4355	.0455	.4956	.0772	.4603
#1	.1531	.2641	6.550	.4852	.1839	.3941	1.823
#2	.1520	.2634	6.532	.4855	.1835	.3937	1.821
#3	.1532	.2664	6.495	.4851	.1852	.3936	1.836

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4458.8**	**33843.**	**4011.2**
Stddev	15.7	147.	16.1
%RSD	.35194	.43368	.40023
#1	4462.6	33915.	4012.0
#2	4472.3	33674.	3994.8
#3	4441.6	33940.	4026.9

Sample Name: Std Al Fe K Na Si Acquired: 12/5/2018 14:39:36 Type: Cal
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: IR Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Al3961	Fe2599	K_7664	Na5895	Si2124
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4.068**	**4.034**	**1.923**	**6.970**	**1.896**
Stddev	.012	.019	.003	.026	.010
%RSD	.2887	.4607	.1425	.3756	.5063
#1	4.082	4.055	1.926	6.999	1.894
#2	4.061	4.020	1.921	6.948	1.888
#3	4.061	4.028	1.922	6.964	1.907

Int. Std.	Y_2243	Y_3710
Units	Cts/S	Cts/S
Avg	**4483.1**	**4078.1**
Stddev	13.3	17.7
%RSD	.29587	.43285
#1	4486.9	4061.7
#2	4494.1	4075.7
#3	4468.4	4096.8

Sample Name: Std Ca Mg Si Acquired: 12/5/2018 14:44:11 Type: Cal
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: IR Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ca3158	Mg2790	Si2124
Units	Cts/S	Cts/S	Cts/S
Avg	**.9043**	**3.505**	**.9201**
Stddev	.0018	.013	.0028
%RSD	.1985	.3685	.3013
#1	.9030	3.491	.9176
#2	.9034	3.517	.9197
#3	.9063	3.508	.9231

Int. Std.	Y_2243	Y_3710
Units	Cts/S	Cts/S
Avg	**4509.3**	**4125.8**
Stddev	24.6	19.6
%RSD	.54613	.47565
#1	4528.4	4145.7
#2	4518.1	4106.5
#3	4481.5	4125.1

Sample Name: ICV Acquired: 12/5/2018 14:48:48 Type: QC
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4906**	W **.5324**	**.4945**	**.4977**	**.4876**	W **.4722**	**-.0041**	**.4819**	**.4849**	**.4860**
Stddev	.0019	.0174	.0043	.0049	.0009	.0011	.0013	.0067	.0039	.0044
%RSD	.3836	3.275	.8691	.9895	.1848	.2388	32.64	1.389	.8065	.9089
#1	.4892	.5129	.4897	.4952	.4880	.4730	-.0047	.4835	.4821	.4825
#2	.4900	.5378	.4960	.4945	.4866	.4709	-.0025	.4876	.4833	.4846
#3	.4928	.5465	.4979	.5034	.4883	.4726	-.0049	.4745	.4894	.4910
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Warn	None	Chk Pass	Chk Pass	Chk Pass
High Limit		.5274				.5274				
Low Limit		.4726				.4726				

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4845**	**.4835**	**.4907**	**4.871**	**.4915**	**.4893**	**.4756**	**9.743**	**.4810**	**.4971**
Stddev	.0014	.0015	.0010	.048	.0047	.0018	.0039	.026	.0043	.0047
%RSD	.2948	.3018	.1954	.9923	.9509	.3644	.8300	.2676	.8942	.9461
#1	.4854	.4822	.4907	4.926	.4942	.4905	.4727	9.766	.4777	.4928
#2	.4828	.4832	.4897	4.837	.4861	.4872	.4740	9.715	.4795	.4963
#3	.4852	.4851	.4916	4.849	.4943	.4902	.4801	9.750	.4859	.5021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4971**	**.5036**	**5.007**	**.4808**	W **.4705**	**.4729**	**.4865**	**.4909**	**.4797**
Stddev	.0034	.0030	.040	.0043	.0006	.0014	.0046	.0014	.0041
%RSD	.6885	.5867	.7974	.8889	.1184	.2959	.9457	.2779	.8458
#1	.4954	.5025	4.973	.4779	.4711	.4726	.4839	.4916	.4772
#2	.4948	.5014	4.995	.4788	.4700	.4717	.4838	.4918	.4775
#3	.5010	.5070	5.051	.4857	.4703	.4745	.4919	.4893	.4843
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					.5274				
Low Limit					.4726				

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4540.2**	**34800.**	**4160.3**
Stddev	36.4	170.	27.5
%RSD	.80087	.48824	.66053
#1	4564.6	34731.	4130.2
#2	4557.6	34675.	4184.1
#3	4498.4	34993.	4166.7

Sample Name: ICB Acquired: 12/5/2018 14:53:14 Type: QC
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006**	**.0020**	**-.0010**	**.0002**	**.0001**	**.0001**	**-.0007**	**.0121**	**.0000**	**-.0001**
Stddev	.0009	.0154	.0006	.0005	.0001	.0000	.0029	.0060	.0000	.0003
%RSD	163.1	787.4	62.03	254.8	178.9	33.55	416.6	49.40	99.75	339.0
#1	.0009	.0153	-.0009	.0007	.0002	.0002	-.0033	.0169	.0000	-.0002
#2	-.0005	-.0149	-.0017	-.0002	.0001	.0002	.0024	.0054	.0001	.0002
#3	.0013	.0054	-.0004	.0001	-.0001	.0001	-.0012	.0141	-.0000	-.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**-.0001**	**.0001**	**.0317**	**.0008**	**.0016**	**.0018**	**.0066**	**.0003**	**-.0003**
Stddev	.0010	.0002	.0043	.0663	.0036	.0002	.0003	.0163	.0003	.0011
%RSD	542.8	150.4	3258.	208.9	438.1	13.42	14.61	247.8	94.55	372.7
#1	.0006	.0000	.0045	-.0447	.0027	.0014	.0020	-.0114	.0000	.0009
#2	-.0009	-.0003	-.0001	.0732	-.0033	.0018	.0017	.0107	.0003	-.0012
#3	.0008	-.0001	-.0040	.0667	.0031	.0017	.0015	.0204	.0006	-.0006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0021**	**.0048**	**-.0015**	**.0014**	**.0002**	**.0006**	**-.0007**	**.0000**	**.0024**
Stddev	.0003	.0036	.0005	.0012	.0002	.0002	.0006	.0005	.0005
%RSD	13.21	74.40	29.49	84.06	143.3	38.47	75.11	1300.	19.89
#1	.0022	.0047	-.0019	.0015	.0001	.0007	-.0014	-.0005	.0027
#2	.0018	.0083	-.0017	.0026	.0005	.0007	-.0003	.0002	.0027
#3	.0023	.0012	-.0010	.0002	-.0000	.0003	-.0005	.0005	.0019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4533.9**	**35062.**	**4120.2**
Stddev	32.7	120.	14.3
%RSD	.72064	.34202	.34767
#1	4549.2	34923.	4103.7
#2	4556.1	35136.	4127.8
#3	4496.4	35125.	4129.2

Sample Name: WG1185574-1,T Acquired: 12/5/2018 15:00:29 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**-.0081**	**.0007**	**-.0016**	**.0001**	**.0000**	**-.0017**	**-.0056**	**-.0001**	**.0002**
Stddev	.0007	.0060	.0008	.0005	.0002	.0001	.0009	.0058	.0000	.0001
%RSD	1446.	74.57	123.3	29.83	124.5	257.9	51.83	104.1	11.18	93.27
#1	.0003	-.0113	.0016	-.0011	.0003	.0001	-.0007	.0011	-.0001	.0000
#2	-.0008	-.0011	.0001	-.0021	.0001	-.0001	-.0021	-.0088	-.0001	.0001
#3	.0006	-.0118	.0003	-.0015	-.0000	.0001	-.0022	-.0091	-.0001	.0003

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0007**	**.0001**	**-.0063**	**.0583**	**-.0002**	**.0106**	**.0002**	**.0929**	**.0000**	**.0004**
Stddev	.0004	.0002	.0027	.0849	.0050	.0007	.0001	.0260	.0002	.0002
%RSD	56.99	238.3	42.21	145.5	2704.	6.631	32.60	28.01	556.5	53.68
#1	-.0004	.0003	-.0056	.1471	.0027	.0103	.0002	.0896	-.0000	.0007
#2	-.0011	-.0000	-.0040	.0498	-.0059	.0115	.0002	.1204	-.0001	.0002
#3	-.0005	-.0000	-.0092	-.0219	.0027	.0102	.0003	.0686	.0002	.0004

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0019**	**-.0002**	**-.0008**	**.0026**	**.0003**	**.0006**	**.0015**	**.0001**	**-.0008**
Stddev	.0010	.0011	.0006	.0010	.0003	.0000	.0007	.0003	.0001
%RSD	49.61	485.7	70.22	39.23	88.69	7.154	47.53	495.1	8.937
#1	.0015	.0010	-.0015	.0037	.0000	.0006	.0012	.0004	-.0008
#2	.0030	-.0005	-.0004	.0024	.0004	.0006	.0022	-.0003	-.0009
#3	.0013	-.0012	-.0006	.0017	.0006	.0007	.0009	.0001	-.0007

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4542.0**	**34460.**	**4102.2**
Stddev	27.6	56.	24.1
%RSD	.60729	.16311	.58626
#1	4555.8	34488.	4124.7
#2	4560.0	34396.	4105.0
#3	4510.2	34497.	4076.8

Sample Name: IPC Acquired: 12/5/2018 15:05:07 Type: QC
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0016**	**.0228**	**.0008**	**-.0013**	**.0003**	**-.0041**	**.0053**	**-.0252**	**-.0001**	**-.0003**
Stddev	.0010	.0135	.0017	.0015	.0001	.0002	.0013	.0030	.0000	.0004
%RSD	63.15	59.35	211.0	112.1	43.00	5.661	24.12	11.72	5.485	130.5
#1	.0018	.0118	-.0011	-.0010	.0003	-.0043	.0040	-.0267	-.0001	-.0007
#2	.0024	.0186	.0023	-.0000	.0004	-.0039	.0065	-.0218	-.0001	.0000
#3	.0005	.0379	.0012	-.0030	.0002	-.0042	.0056	-.0271	-.0001	-.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**9.795**	**.0000**	**-.0010**	**.0364**	**-.0158**	**9.628**	**-.0010**	**.0003**	**-.0026**	**-.0013**
Stddev	.010	.0006	.0020	.0681	.0055	.025	.0001	.0068	.0003	.0003
%RSD	.0992	63950.	200.7	187.2	34.81	.2543	13.70	2038.	10.51	26.24
#1	9.806	-.0005	-.0005	.1141	-.0142	9.630	-.0012	.0071	-.0026	-.0014
#2	9.788	.0006	-.0031	.0078	-.0219	9.652	-.0010	-.0064	-.0028	-.0009
#3	9.791	-.0001	.0007	-.0128	-.0113	9.603	-.0009	.0003	-.0023	-.0015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0196**	**.0076**	**.0111**	**-.0009**	**-.0002**	**.0018**	**-.0004**	**9.742**	**-.0040**
Stddev	.0017	.0016	.0004	.0004	.0000	.0006	.0009	.012	.0001
%RSD	8.438	21.31	3.746	50.83	20.15	34.73	209.2	.1195	2.983
#1	-.0215	.0094	.0107	-.0004	-.0002	.0024	-.0011	9.755	-.0040
#2	-.0188	.0072	.0112	-.0009	-.0002	.0017	.0006	9.733	-.0042
#3	-.0185	.0062	.0115	-.0013	-.0003	.0012	-.0007	9.737	-.0039
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4418.1**	**34281.**	**4021.0**
Stddev	32.8	144.	26.4
%RSD	.74280	.42001	.65738
#1	4432.8	34116.	3990.8
#2	4440.9	34351.	4032.5
#3	4380.5	34377.	4039.7

Sample Name: WG1185574-2,T Acquired: 12/5/2018 15:09:42 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0493**	**2.092**	**.1178**	**1.058**	**1.988**	**.0485**	**-.0024**	**10.04**	**.0526**	**.4948**
Stddev	.0010	.017	.0023	.009	.002	.0002	.0027	.02	.0005	.0048
%RSD	2.100	.8181	1.933	.8270	.0983	.4402	112.5	.2052	1.017	.9716
#1	.0504	2.083	.1162	1.055	1.987	.0483	-.0044	10.06	.0524	.4922
#2	.0483	2.112	.1168	1.052	1.987	.0485	-.0033	10.05	.0522	.4919
#3	.0492	2.081	.1204	1.068	1.990	.0487	.0006	10.02	.0532	.5004

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1985**	**.2397**	**1.058**	**9.931**	**10.24**	**.4880**	**.9781**	**10.25**	**.4947**	**.4815**
Stddev	.0013	.0007	.002	.070	.01	.0013	.0091	.06	.0050	.0031
%RSD	.6348	.2974	.2016	.7078	.0494	.2650	.9329	.5780	1.001	.6538
#1	.1999	.2396	1.059	9.932	10.25	.4870	.9737	10.23	.4924	.4795
#2	.1975	.2390	1.056	10.00	10.25	.4876	.9720	10.19	.4913	.4798
#3	.1981	.2404	1.059	9.860	10.24	.4895	.9886	10.31	.5004	.4851

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5108**	**.1188**	**.5730**	**.9735**	**.9865**	**1.014**	**.1135**	**.5063**	**.5182**
Stddev	.0067	.0024	.0045	.0075	.0014	.001	.0018	.0014	.0049
%RSD	1.320	2.023	.7791	.7723	.1379	.1396	1.583	.2803	.9437
#1	.5072	.1195	.5694	.9686	.9880	1.013	.1122	.5071	.5155
#2	.5067	.1161	.5717	.9697	.9858	1.016	.1127	.5072	.5154
#3	.5186	.1208	.5780	.9821	.9856	1.013	.1155	.5047	.5239

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4424.5**	**33730.**	**4070.8**
Stddev	39.0	127.	6.9
%RSD	.88198	.37656	.16937
#1	4448.3	33584.	4065.7
#2	4445.8	33818.	4078.6
#3	4379.5	33787.	4068.0

Sample Name: WG1185574-3,T Acquired: 12/5/2018 15:14:08 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0502**	**2.101**	**.1209**	**1.061**	**2.003**	**.0491**	**-.0037**	**10.06**	**.0527**	**.4968**
Stddev	.0009	.007	.0020	.009	.007	.0003	.0022	.01	.0006	.0048
%RSD	1.826	.3530	1.653	.8427	.3575	.5673	57.53	.1236	1.186	.9601
#1	.0493	2.101	.1228	1.055	2.011	.0494	-.0015	10.07	.0524	.4936
#2	.0502	2.093	.1188	1.056	1.997	.0490	-.0040	10.06	.0523	.4944
#3	.0512	2.108	.1211	1.071	2.000	.0489	-.0058	10.04	.0534	.5022

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1986**	**.2395**	**1.063**	**10.05**	**10.28**	**.4904**	**.9817**	**10.45**	**.4958**	**.4854**
Stddev	.0006	.0011	.011	.01	.09	.0029	.0088	.08	.0050	.0041
%RSD	.2803	.4428	1.021	.0662	.8934	.5863	.8918	.7774	1.015	.8493
#1	.1982	.2394	1.075	10.05	10.39	.4937	.9769	10.53	.4929	.4840
#2	.1992	.2407	1.054	10.06	10.25	.4887	.9763	10.37	.4928	.4823
#3	.1983	.2385	1.061	10.05	10.22	.4888	.9918	10.47	.5016	.4901

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5165**	**.1187**	**.5729**	**.9760**	**.9896**	**1.015**	**.1141**	**.5090**	**.5185**
Stddev	.0051	.0042	.0047	.0094	.0031	.001	.0018	.0009	.0051
%RSD	.9913	3.541	.8245	.9598	.3144	.0874	1.576	.1678	.9831
#1	.5135	.1182	.5710	.9716	.9931	1.015	.1121	.5087	.5161
#2	.5136	.1147	.5695	.9696	.9873	1.016	.1156	.5083	.5150
#3	.5224	.1231	.5783	.9867	.9883	1.014	.1146	.5099	.5243

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4428.1**	**33413.**	**4042.5**
Stddev	42.0	150.	26.2
%RSD	.94917	.44932	.64918
#1	4458.0	33543.	4015.6
#2	4446.3	33249.	4044.0
#3	4380.1	33446.	4068.0

Sample Name: L1848767-01,T Acquired: 12/5/2018 15:18:35 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0007**	**.0850**	**-.0013**	**.0033**	**.0193**	**-.0000**	**-.0016**	**2.549**	**-.0000**	**.0003**
Stddev	.0009	.0137	.0018	.0009	.0002	.0002	.0004	.019	.0000	.0001
%RSD	134.3	16.15	137.9	27.54	.8778	1049.	25.96	.7369	109.3	16.38
#1	.0004	.0697	-.0015	.0032	.0193	.0001	-.0011	2.565	-.0000	.0004
#2	.0017	.0963	-.0029	.0025	.0191	.0001	-.0020	2.529	.0000	.0003
#3	-.0001	.0890	.0006	.0043	.0194	-.0002	-.0018	2.554	-.0001	.0003

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0022**	**.0039**	**.1318**	**.1611**	**.5174**	**.0112**	**.0026**	**1.967**	**.0015**	**-.0003**
Stddev	.0005	.0004	.0005	.0108	.0035	.0006	.0008	.011	.0002	.0006
%RSD	22.55	9.328	.3995	6.716	.6696	5.237	30.78	.5570	11.91	183.3
#1	.0027	.0040	.1316	.1581	.5147	.0108	.0032	1.976	.0014	-.0007
#2	.0017	.0043	.1324	.1731	.5162	.0119	.0028	1.971	.0013	.0003
#3	.0021	.0036	.1314	.1521	.5213	.0110	.0017	1.955	.0016	-.0005

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0045**	**.0048**	**.6784**	**.0096**	**.0094**	**.0346**	**.0017**	**.0003**	**.0097**
Stddev	.0005	.0019	.0112	.0008	.0002	.0020	.0008	.0002	.0002
%RSD	11.84	39.76	1.657	8.081	2.578	5.769	45.84	77.58	2.354
#1	.0039	.0060	.6698	.0096	.0092	.0345	.0012	.0003	.0097
#2	.0047	.0058	.6743	.0104	.0095	.0327	.0026	.0001	.0095
#3	.0049	.0026	.6911	.0089	.0096	.0367	.0014	.0005	.0100

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4484.6**	**34252.**	**4129.3**
Stddev	29.0	157.	5.4
%RSD	.64558	.45896	.13132
#1	4489.5	34142.	4130.3
#2	4510.8	34182.	4134.1
#3	4453.5	34432.	4123.4

Sample Name: L1848767-02,T Acquired: 12/5/2018 15:23:12 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0003**	**.0635**	**-.0000**	**.0029**	**.0332**	**-.0002**	**-.0015**	**1.582**	**-.0000**	**.0001**
Stddev	.0008	.0088	.0025	.0007	.0001	.0000	.0009	.016	.0001	.0002
%RSD	288.9	13.84	45740.	25.59	.1846	22.11	64.40	1.003	627.9	128.5
#1	.0006	.0597	.0014	.0032	.0332	-.0001	-.0004	1.566	.0000	-.0000
#2	-.0006	.0736	-.0029	.0020	.0333	-.0002	-.0023	1.583	.0000	.0002
#3	-.0009	.0573	.0014	.0034	.0332	-.0002	-.0017	1.598	-.0001	.0002

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0019**	**.0045**	**.0539**	**.2535**	**.2945**	**.0448**	**.0005**	**2.490**	**.0009**	**-.0001**
Stddev	.0004	.0005	.0043	.0893	.0032	.0006	.0001	.020	.0002	.0006
%RSD	22.15	10.40	7.957	35.22	1.085	1.243	21.83	.8087	25.70	553.9
#1	.0019	.0050	.0490	.3035	.2910	.0442	.0005	2.491	.0007	-.0005
#2	.0023	.0042	.0571	.3065	.2953	.0450	.0004	2.469	.0008	.0006
#3	.0015	.0042	.0555	.1504	.2973	.0453	.0006	2.509	.0012	-.0004

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0025**	**.0060**	**.6065**	**.0034**	**.0058**	**.0111**	**-.0014**	**-.0000**	**.0084**
Stddev	.0020	.0027	.0101	.0004	.0003	.0011	.0006	.0003	.0002
%RSD	83.12	44.60	1.661	11.76	5.483	10.12	39.84	2759.	2.120
#1	.0002	.0048	.5986	.0031	.0058	.0111	-.0010	-.0003	.0082
#2	.0040	.0090	.6032	.0039	.0061	.0099	-.0021	.0001	.0085
#3	.0032	.0041	.6179	.0034	.0054	.0122	-.0013	.0002	.0084

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4476.3**	**34659.**	**4141.6**
Stddev	54.1	53.	29.1
%RSD	1.2086	.15307	.70304
#1	4498.1	34643.	4165.1
#2	4516.2	34615.	4150.6
#3	4414.7	34718.	4109.0

Sample Name: L1848767-03,T Acquired: 12/5/2018 15:27:51 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**.0844**	**-.0024**	**.0018**	**.0156**	**-.0000**	**-.0015**	**2.390**	**.0000**	**.0003**
Stddev	.0008	.0146	.0010	.0001	.0005	.0001	.0020	.025	.0000	.0001
%RSD	145.8	17.29	39.52	6.281	3.054	397.7	133.8	1.057	126.5	19.73
#1	-.0002	.1012	-.0019	.0017	.0161	.0001	-.0017	2.382	.0000	.0003
#2	.0004	.0770	-.0019	.0019	.0151	-.0002	.0006	2.370	.0000	.0003
#3	.0013	.0750	-.0035	.0017	.0156	-.0000	-.0034	2.418	-.0000	.0002

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0028**	**.0031**	**.1376**	**.1518**	**.5120**	**.0148**	**.0000**	**1.818**	**.0012**	**-.0004**
Stddev	.0007	.0009	.0038	.0126	.0052	.0005	.0001	.013	.0001	.0009
%RSD	23.35	28.51	2.765	8.278	1.009	3.686	143.5	.7339	8.381	218.8
#1	.0036	.0038	.1389	.1404	.5095	.0146	.0000	1.824	.0011	-.0006
#2	.0027	.0034	.1333	.1497	.5085	.0143	.0001	1.803	.0013	.0006
#3	.0023	.0021	.1405	.1652	.5179	.0154	.0000	1.828	.0013	-.0012

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0017**	**.0044**	**.7600**	**.0091**	**.0098**	**.0142**	**-.0018**	**.0001**	**.0082**
Stddev	.0002	.0031	.0059	.0006	.0003	.0012	.0005	.0003	.0000
%RSD	11.59	69.61	.7776	6.341	2.643	8.721	25.83	406.8	.1444
#1	.0018	.0013	.7564	.0092	.0101	.0146	-.0012	.0000	.0082
#2	.0015	.0074	.7568	.0085	.0098	.0152	-.0020	-.0002	.0082
#3	.0018	.0045	.7669	.0096	.0096	.0128	-.0020	.0003	.0082

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4454.7**	**34816.**	**4195.6**
Stddev	43.9	186.	21.0
%RSD	.98548	.53363	.50037
#1	4484.1	34824.	4205.3
#2	4475.7	34998.	4210.1
#3	4404.2	34627.	4171.6

Sample Name: L1848767-04,T Acquired: 12/5/2018 15:32:30 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**.0618**	**-.0018**	**-.0003**	**.0114**	**-.0001**	**-.0030**	**1.900**	**-.0000**	**.0001**
Stddev	.0014	.0062	.0008	.0004	.0002	.0001	.0014	.018	.0000	.0002
%RSD	320.3	10.10	46.43	127.2	1.887	157.8	45.83	.9214	120.5	165.5
#1	.0019	.0615	-.0021	.0001	.0114	.0001	-.0045	1.881	.0000	.0003
#2	-.0010	.0557	-.0009	-.0004	.0116	-.0002	-.0017	1.905	-.0000	-.0001
#3	.0004	.0681	-.0024	-.0005	.0111	-.0001	-.0028	1.915	-.0001	.0002

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0021**	**.0045**	**.0594**	**.2046**	**.2960**	**.0068**	**-.0000**	**2.501**	**.0009**	**-.0012**
Stddev	.0008	.0004	.0007	.0550	.0028	.0002	.0004	.024	.0001	.0004
%RSD	41.09	9.315	1.126	26.85	.9332	2.503	2886.	.9420	13.16	32.40
#1	.0013	.0044	.0597	.1446	.2989	.0066	-.0002	2.501	.0010	-.0011
#2	.0030	.0050	.0600	.2524	.2954	.0068	-.0003	2.525	.0010	-.0008
#3	.0019	.0042	.0587	.2169	.2935	.0069	.0004	2.478	.0008	-.0016

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0015**	**.0053**	**.6344**	**.0036**	**.0058**	**.0188**	**-.0002**	**.0003**	**.0120**
Stddev	.0010	.0013	.0070	.0006	.0002	.0004	.0010	.0002	.0004
%RSD	66.99	24.63	1.097	15.99	3.541	2.366	512.9	70.89	3.036
#1	.0022	.0060	.6319	.0030	.0056	.0187	.0010	.0006	.0118
#2	.0018	.0038	.6291	.0038	.0059	.0183	-.0008	.0001	.0119
#3	.0004	.0062	.6423	.0041	.0060	.0192	-.0008	.0003	.0124

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4445.2**	**34313.**	**4127.2**
Stddev	55.1	126.	8.9
%RSD	1.2385	.36738	.21573
#1	4469.8	34220.	4135.4
#2	4483.6	34456.	4128.7
#3	4382.1	34262.	4117.7

Sample Name: L1848767-05,T Acquired: 12/5/2018 15:37:07 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0010**	**.0657**	**-.0035**	**.0010**	**.0104**	**-.0001**	**-.0008**	**2.188**	**-.0000**	**.0000**
Stddev	.0011	.0073	.0014	.0007	.0003	.0001	.0014	.018	.0001	.0001
%RSD	108.4	11.14	39.34	72.79	3.220	74.49	165.6	.8165	3667.	248.9
#1	.0017	.0632	-.0020	.0018	.0107	-.0000	-.0024	2.209	.0000	.0002
#2	-.0003	.0740	-.0039	.0004	.0101	-.0002	.0001	2.181	-.0001	-.0000
#3	.0017	.0600	-.0047	.0008	.0104	-.0001	-.0002	2.176	.0000	-.0000

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0041**	**.0029**	**.1368**	**.1645**	**.4875**	**.0075**	**-.0003**	**1.636**	**.0027**	**.0006**
Stddev	.0002	.0002	.0012	.0415	.0059	.0005	.0004	.017	.0005	.0011
%RSD	3.892	7.640	.8548	25.22	1.201	7.131	130.3	1.046	17.03	198.5
#1	.0043	.0030	.1358	.1174	.4850	.0079	.0001	1.617	.0022	-.0004
#2	.0040	.0026	.1381	.1807	.4942	.0069	-.0006	1.649	.0028	.0018
#3	.0040	.0030	.1366	.1954	.4834	.0078	-.0005	1.642	.0030	.0003

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0007**	**.0058**	**.5874**	**.0081**	**.0090**	**.0131**	**.0013**	**-.0000**	**.0082**
Stddev	.0013	.0017	.0042	.0005	.0001	.0045	.0017	.0005	.0001
%RSD	203.4	29.72	.7211	6.052	1.487	34.22	130.5	4550.	1.766
#1	-.0008	.0050	.5858	.0075	.0088	.0099	.0010	.0006	.0080
#2	.0017	.0078	.5841	.0085	.0090	.0112	-.0002	-.0004	.0083
#3	.0011	.0047	.5921	.0082	.0090	.0182	.0031	-.0002	.0083

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4486.3**	**34512.**	**4079.8**
Stddev	26.6	99.	14.5
%RSD	.59277	.28661	.35440
#1	4497.1	34452.	4096.4
#2	4505.8	34626.	4069.6
#3	4456.0	34458.	4073.6

Sample Name: L1848767-06,T Acquired: 12/5/2018 15:41:42 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment: 10

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0006**	**.1262**	**-.0030**	**.0015**	**.0352**	**-.0001**	**-.0026**	**1.798**	**-.0000**	**.0002**
Stddev	.0014	.0112	.0011	.0006	.0001	.0000	.0002	.006	.0001	.0001
%RSD	225.3	8.861	36.99	39.97	.3048	51.47	9.553	.3261	211.3	77.72
#1	-.0022	.1135	-.0023	.0017	.0354	-.0001	-.0026	1.804	-.0001	.0001
#2	.0002	.1345	-.0043	.0008	.0352	-.0000	-.0029	1.792	-.0000	.0001
#3	.0002	.1307	-.0025	.0019	.0352	-.0001	-.0024	1.797	.0000	.0003

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0059**	**.0056**	**.0664**	**.2181**	**.2948**	**.0023**	**.0005**	**2.455**	**.0065**	**-.0007**
Stddev	.0005	.0003	.0021	.0817	.0028	.0004	.0001	.005	.0002	.0007
%RSD	8.428	4.641	3.210	37.48	.9532	16.61	16.61	.1994	2.833	97.55
#1	.0053	.0059	.0645	.1264	.2949	.0022	.0005	2.450	.0063	-.0012
#2	.0063	.0054	.0660	.2442	.2919	.0020	.0004	2.458	.0064	-.0010
#3	.0060	.0055	.0687	.2835	.2975	.0027	.0006	2.458	.0067	.0001

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0020**	**.0037**	**.7137**	**.0032**	**.0059**	**.0206**	**-.0023**	**-.0001**	**.0102**
Stddev	.0006	.0010	.0025	.0004	.0001	.0011	.0008	.0006	.0001
%RSD	29.18	25.82	.3465	12.91	.8512	5.277	36.45	890.0	1.049
#1	.0017	.0042	.7108	.0029	.0059	.0194	-.0013	-.0004	.0101
#2	.0017	.0044	.7150	.0036	.0058	.0216	-.0025	-.0004	.0102
#3	.0027	.0026	.7152	.0030	.0059	.0209	-.0029	.0006	.0103

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4497.0**	**34570.**	**4164.7**
Stddev	29.6	160.	18.8
%RSD	.65794	.46205	.45154
#1	4518.7	34586.	4186.0
#2	4509.0	34402.	4158.0
#3	4463.3	34721.	4150.3

Sample Name: CCV Acquired: 12/5/2018 15:46:18 Type: QC
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4865**	**.5385**	**.4905**	**.4925**	**.4888**	**.4773**	**-.0044**	**.4738**	**.4818**	**.4811**
Stddev	.0020	.0126	.0024	.0031	.0009	.0009	.0005	.0107	.0028	.0031
%RSD	.4139	2.344	.4981	.6270	.1875	.1913	12.14	2.267	.5877	.6341
#1	.4887	.5338	.4909	.4907	.4896	.4783	-.0048	.4860	.4801	.4786
#2	.4860	.5528	.4879	.4909	.4878	.4771	-.0047	.4659	.4803	.4801
#3	.4848	.5290	.4927	.4961	.4890	.4766	-.0038	.4695	.4851	.4845
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4836**	**.4817**	**.4917**	**4.987**	**.5074**	**.4987**	**.4739**	**10.12**	**.4786**	**.5007**
Stddev	.0021	.0013	.0047	.035	.0056	.0004	.0029	.03	.0025	.0030
%RSD	.4381	.2767	.9656	.7054	1.113	.0754	.6016	.3028	.5233	.6014
#1	.4855	.4832	.4966	5.012	.5032	.4991	.4720	10.11	.4772	.4981
#2	.4839	.4809	.4871	4.946	.5138	.4983	.4725	10.15	.4771	.4999
#3	.4813	.4809	.4913	5.001	.5053	.4986	.4771	10.09	.4815	.5040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4926**	**.4930**	**4.972**	**.4785**	**.4709**	**.4740**	**.4843**	**.4941**	**.4740**
Stddev	.0031	.0033	.032	.0019	.0016	.0022	.0027	.0015	.0033
%RSD	.6364	.6745	.6430	.4061	.3335	.4729	.5631	.2953	.6913
#1	.4905	.4921	4.951	.4778	.4719	.4766	.4829	.4951	.4720
#2	.4912	.4902	4.956	.4770	.4691	.4732	.4826	.4947	.4722
#3	.4962	.4967	5.009	.4807	.4717	.4723	.4875	.4924	.4778
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4569.6**	**34556.**	**4057.2**
Stddev	28.1	106.	22.0
%RSD	.61521	.30657	.54203
#1	4591.1	34436.	4081.3
#2	4579.9	34594.	4038.1
#3	4537.8	34638.	4052.3

Sample Name: CCB Acquired: 12/5/2018 15:50:43 Type: QC
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**.0083**	**-.0011**	**-.0014**	**.0002**	**.0002**	**-.0002**	**.0071**	**.0001**	**.0001**
Stddev	.0010	.0109	.0012	.0005	.0004	.0001	.0012	.0121	.0000	.0002
%RSD	191.5	131.8	111.3	36.97	192.9	61.88	522.9	169.1	54.01	157.3
#1	-.0006	.0150	-.0001	-.0011	-.0002	.0000	.0002	.0047	.0000	.0003
#2	.0007	.0143	-.0007	-.0021	.0003	.0002	.0007	.0202	.0001	-.0001
#3	.0013	-.0043	-.0025	-.0012	.0005	.0002	-.0016	-.0035	.0001	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008**	**-.0008**	**-.0023**	**-.0099**	**-.0006**	**.0009**	**.0016**	**.0052**	**.0004**	**-.0019**
Stddev	.0008	.0003	.0034	.0274	.0038	.0002	.0005	.0084	.0003	.0011
%RSD	97.48	40.33	148.1	276.2	672.1	27.72	33.65	163.1	84.53	55.52
#1	.0001	-.0005	-.0052	.0212	-.0049	.0006	.0021	.0092	.0006	-.0008
#2	.0017	-.0011	.0014	-.0205	.0007	.0009	.0015	.0108	.0006	-.0019
#3	.0008	-.0009	-.0030	-.0304	.0024	.0011	.0010	-.0045	.0000	-.0029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0011**	**.0001**	**-.0006**	**.0017**	**.0003**	**.0009**	**-.0000**	**-.0003**	**.0016**
Stddev	.0014	.0018	.0005	.0007	.0004	.0010	.0010	.0003	.0001
%RSD	127.3	3086.	96.85	41.47	143.3	107.0	4802.	112.1	8.640
#1	.0019	.0003	-.0006	.0024	.0007	-.0001	.0006	-.0006	.0016
#2	.0019	.0017	-.0011	.0017	-.0002	.0011	-.0011	-.0003	.0017
#3	-.0005	-.0018	.0000	.0010	.0004	.0018	.0004	.0000	.0014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4516.6**	**34745.**	**4051.8**
Stddev	32.7	98.	8.8
%RSD	.72435	.28301	.21775
#1	4523.8	34654.	4043.1
#2	4545.1	34731.	4060.8
#3	4480.9	34850.	4051.6

Sample Name: L1848767-07,T Acquired: 12/5/2018 15:55:23 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0002**	**.0849**	**-.0028**	**.0017**	**.0111**	**.0001**	**-.0025**	**2.346**	**-.0000**	**.0000**
Stddev	.0002	.0143	.0009	.0004	.0003	.0001	.0002	.004	.0000	.0001
%RSD	83.64	16.84	30.75	25.97	2.765	109.0	6.535	.1808	116.6	209.4
#1	-.0004	.0978	-.0018	.0022	.0114	.0001	-.0026	2.346	-.0000	.0001
#2	-.0003	.0873	-.0033	.0015	.0111	.0001	-.0027	2.351	.0000	.0001
#3	-.0000	.0695	-.0033	.0014	.0108	-.0000	-.0024	2.342	-.0000	-.0000

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0025**	**.0035**	**.1305**	**.1833**	**.5044**	**.0148**	**.0007**	**1.767**	**.0015**	**.0002**
Stddev	.0002	.0004	.0033	.0462	.0030	.0008	.0003	.034	.0004	.0003
%RSD	9.990	12.85	2.554	25.19	.6002	5.422	35.82	1.943	26.23	142.8
#1	.0028	.0038	.1285	.1391	.5069	.0145	.0009	1.772	.0017	-.0001
#2	.0024	.0029	.1286	.2312	.5010	.0142	.0008	1.799	.0011	.0003
#3	.0023	.0037	.1344	.1795	.5053	.0157	.0004	1.730	.0018	.0005

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0011**	**.0048**	**.6173**	**.0078**	**.0088**	**.0104**	**.0012**	**.0001**	**.0082**
Stddev	.0007	.0014	.0046	.0004	.0001	.0011	.0005	.0003	.0002
%RSD	58.67	28.19	.7511	5.325	1.154	10.75	38.94	628.5	2.122
#1	.0015	.0041	.6151	.0080	.0089	.0091	.0014	-.0003	.0081
#2	.0015	.0064	.6141	.0080	.0088	.0112	.0007	.0003	.0084
#3	.0004	.0040	.6226	.0073	.0087	.0109	.0016	.0002	.0080

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4480.8**	**34191.**	**4045.3**
Stddev	27.3	61.	1.7
%RSD	.60894	.17975	.04166
#1	4498.6	34254.	4045.6
#2	4494.5	34188.	4043.5
#3	4449.4	34131.	4046.9

Sample Name: L1848767-08,T Acquired: 12/5/2018 15:59:58 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0017**	**.1018**	**-.0036**	**.0065**	**.0221**	**-.0002**	**-.0010**	**2.765**	**-.0000**	**.0002**
Stddev	.0009	.0122	.0016	.0001	.0004	.0001	.0026	.022	.0000	.0003
%RSD	53.76	12.01	43.68	1.720	1.617	46.11	270.2	.8146	17.12	128.8
#1	.0011	.1081	-.0053	.0064	.0225	-.0002	-.0021	2.781	-.0000	.0005
#2	.0027	.1097	-.0022	.0064	.0219	-.0001	.0020	2.775	-.0001	.0003
#3	.0012	.0878	-.0033	.0066	.0219	-.0001	-.0028	2.740	-.0000	-.0001

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0024**	**.0025**	**.1096**	**.1723**	**.5073**	**.0078**	**.0000**	**1.726**	**.0012**	**-.0000**
Stddev	.0009	.0003	.0025	.0139	.0058	.0005	.0003	.018	.0001	.0018
%RSD	36.75	12.82	2.247	8.071	1.153	6.835	1977.	1.045	10.42	9758.
#1	.0019	.0028	.1088	.1590	.5117	.0085	.0004	1.746	.0012	.0007
#2	.0019	.0023	.1077	.1867	.5007	.0076	-.0002	1.717	.0014	.0013
#3	.0034	.0023	.1124	.1712	.5094	.0074	-.0001	1.714	.0011	-.0021

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0012**	**.0050**	**.5873**	**.0064**	**.0090**	**.0205**	**-.0006**	**.0002**	**.0140**
Stddev	.0006	.0028	.0048	.0004	.0003	.0006	.0007	.0004	.0001
%RSD	52.22	56.60	.8090	6.435	2.825	2.814	118.8	171.0	.5493
#1	.0005	.0081	.5876	.0062	.0093	.0202	-.0011	.0001	.0140
#2	.0013	.0027	.5823	.0062	.0088	.0202	-.0010	.0006	.0140
#3	.0018	.0041	.5918	.0069	.0090	.0212	.0002	-.0001	.0141

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4495.6**	**34583.**	**4064.8**
Stddev	21.5	179.	28.8
%RSD	.47810	.51702	.70940
#1	4502.8	34628.	4031.6
#2	4512.6	34735.	4079.6
#3	4471.4	34386.	4083.3

Sample Name: L1848767-09,T Acquired: 12/5/2018 16:04:34 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0607**	**-.0016**	**.0118**	**.0081**	**-.0001**	**-.0022**	**1.596**	**-.0001**	**.0003**
Stddev	.0009	.0042	.0010	.0002	.0004	.0000	.0008	.004	.0000	.0001
%RSD	852.8	6.990	63.70	1.976	4.516	9.334	36.15	.2465	44.70	29.23
#1	.0011	.0587	-.0006	.0121	.0080	-.0001	-.0018	1.596	-.0000	.0002
#2	-.0004	.0656	-.0017	.0118	.0085	-.0001	-.0016	1.592	-.0001	.0003
#3	-.0004	.0578	-.0026	.0116	.0078	-.0001	-.0030	1.600	-.0001	.0003

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0024**	**.0034**	**.0462**	**.1552**	**.2862**	**.0024**	**.0008**	**2.486**	**.0038**	**.0003**
Stddev	.0003	.0007	.0009	.0709	.0022	.0003	.0002	.026	.0001	.0011
%RSD	12.86	19.82	2.035	45.67	.7533	13.09	25.97	1.048	3.702	341.7
#1	.0021	.0027	.0469	.1937	.2887	.0023	.0007	2.483	.0039	-.0004
#2	.0025	.0041	.0452	.0734	.2850	.0028	.0011	2.462	.0039	.0016
#3	.0027	.0033	.0466	.1983	.2848	.0022	.0007	2.514	.0037	-.0002

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**.0047**	**.7123**	**.0029**	**.0056**	**.0270**	**.0011**	**-.0000**	**.0072**
Stddev	.0008	.0011	.0086	.0005	.0001	.0080	.0006	.0002	.0000
%RSD	169.4	23.99	1.204	15.48	2.062	29.62	54.08	18180.	.6556
#1	.0007	.0054	.7043	.0033	.0057	.0360	.0017	.0000	.0072
#2	-.0004	.0052	.7114	.0024	.0057	.0209	.0005	-.0002	.0072
#3	.0011	.0034	.7214	.0030	.0055	.0240	.0011	.0002	.0073

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4508.2**	**34834.**	**4143.8**
Stddev	44.2	176.	9.8
%RSD	.98128	.50509	.23553
#1	4529.5	34891.	4135.9
#2	4537.7	34636.	4154.7
#3	4457.3	34974.	4140.8

Sample Name: L1848767-10,T Acquired: 12/5/2018 16:09:10 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0007**	**.0976**	**-.0016**	**.0172**	**.0199**	**-.0001**	**-.0034**	**2.731**	**-.0000**	**.0001**
Stddev	.0007	.0022	.0013	.0003	.0005	.0002	.0012	.012	.0000	.0003
%RSD	94.44	2.304	84.98	1.949	2.306	364.1	34.64	.4441	385.2	488.1
#1	.0005	.0964	-.0030	.0176	.0203	-.0003	-.0047	2.739	-.0000	-.0001
#2	.0014	.0962	-.0003	.0170	.0200	.0001	-.0028	2.737	.0000	.0004
#3	.0002	.1002	-.0014	.0170	.0194	-.0000	-.0026	2.717	-.0000	-.0001

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0033**	**.0026**	**.1140**	**.2058**	**.5152**	**.0251**	**.0002**	**1.803**	**.0019**	**.0011**
Stddev	.0004	.0010	.0022	.0537	.0038	.0006	.0001	.004	.0003	.0016
%RSD	10.72	37.84	1.943	26.09	.7308	2.526	80.07	.1989	14.46	142.7
#1	.0029	.0036	.1121	.2487	.5124	.0257	.0003	1.802	.0021	.0029
#2	.0035	.0018	.1133	.2231	.5138	.0245	.0001	1.800	.0016	-.0001
#3	.0035	.0023	.1164	.1456	.5195	.0250	.0001	1.807	.0021	.0005

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0005**	**.0067**	**.6320**	**.0066**	**.0093**	**.0017**	**-.0008**	**.0005**	**.0138**
Stddev	.0027	.0015	.0049	.0001	.0005	.0005	.0012	.0002	.0002
%RSD	518.9	22.88	.7824	1.056	5.252	31.37	139.6	30.48	1.143
#1	-.0029	.0078	.6290	.0066	.0089	.0012	-.0002	.0007	.0136
#2	.0024	.0049	.6292	.0067	.0091	.0016	-.0022	.0004	.0139
#3	-.0010	.0073	.6377	.0067	.0098	.0022	-.0001	.0005	.0139

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4466.9**	**34504.**	**4038.4**
Stddev	32.6	129.	1.7
%RSD	.72878	.37350	.04288
#1	4492.5	34556.	4038.8
#2	4477.8	34357.	4036.5
#3	4430.2	34599.	4039.9

Sample Name: L1848767-11,T Acquired: 12/5/2018 16:13:46 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0007**	**.0472**	**-.0024**	**.0246**	**.0083**	**.0001**	**-.0023**	**1.588**	**-.0000**	**.0002**
Stddev	.0007	.0158	.0008	.0006	.0001	.0002	.0017	.008	.0000	.0003
%RSD	92.26	33.39	31.08	2.257	1.047	255.9	73.64	.5015	74.10	137.8
#1	.0015	.0628	-.0033	.0251	.0082	.0004	-.0014	1.586	-.0000	.0005
#2	.0004	.0475	-.0019	.0240	.0084	-.0000	-.0012	1.581	-.0001	-.0000
#3	.0003	.0313	-.0021	.0247	.0083	-.0001	-.0042	1.597	-.0000	.0001

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0313**	**.0034**	**.1666**	**.1290**	**.3328**	**.0126**	**.0044**	**2.499**	**.0008**	**-.0013**
Stddev	.0013	.0002	.0060	.0141	.0033	.0005	.0002	.025	.0003	.0008
%RSD	4.100	6.831	3.591	10.89	.9791	4.022	4.434	1.018	37.17	59.67
#1	.0300	.0033	.1718	.1444	.3365	.0120	.0045	2.528	.0009	-.0019
#2	.0313	.0032	.1678	.1169	.3310	.0128	.0042	2.486	.0011	-.0014
#3	.0326	.0036	.1601	.1257	.3307	.0129	.0045	2.482	.0005	-.0004

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0008**	**.0044**	**.6347**	**.0031**	**.0060**	**.0115**	**.0007**	**.0002**	**.0076**
Stddev	.0011	.0007	.0024	.0003	.0004	.0014	.0008	.0005	.0002
%RSD	139.7	15.08	.3785	9.498	5.828	12.16	117.1	218.8	3.174
#1	-.0004	.0051	.6320	.0032	.0057	.0099	.0013	-.0003	.0073
#2	-.0020	.0038	.6354	.0028	.0060	.0124	-.0002	.0007	.0076
#3	.0001	.0042	.6367	.0034	.0064	.0123	.0010	.0002	.0078

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4462.0**	**34688.**	**4091.7**
Stddev	34.5	199.	34.3
%RSD	.77269	.57273	.83793
#1	4472.5	34870.	4052.4
#2	4489.9	34476.	4107.3
#3	4423.4	34717.	4115.4

Sample Name: L1848767-12,T Acquired: 12/5/2018 16:18:22 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**.0648**	**-.0008**	**.0003**	**.0146**	**-.0001**	**-.0011**	**1.763**	**-.0000**	**.0000**
Stddev	.0006	.0041	.0015	.0005	.0003	.0001	.0013	.017	.0000	.0001
%RSD	127.8	6.338	191.9	196.5	2.121	111.6	122.2	.9786	101.1	286.2
#1	.0012	.0695	.0009	.0007	.0143	-.0000	-.0020	1.783	-.0000	-.0001
#2	.0003	.0623	-.0018	.0004	.0144	-.0001	.0004	1.755	.0000	.0001
#3	-.0000	.0625	-.0015	-.0003	.0149	-.0003	-.0017	1.751	-.0000	.0001

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0014**	**.0031**	**.0549**	**.1204**	**.2912**	**.0060**	**-.0002**	**2.416**	**.0006**	**-.0015**
Stddev	.0005	.0004	.0031	.0572	.0047	.0006	.0003	.005	.0003	.0009
%RSD	34.47	11.57	5.626	47.50	1.597	9.992	139.4	.2141	51.59	61.85
#1	.0014	.0036	.0533	.1025	.2922	.0065	-.0004	2.410	.0004	-.0005
#2	.0009	.0029	.0530	.1844	.2862	.0062	-.0003	2.419	.0005	-.0015
#3	.0019	.0030	.0585	.0743	.2954	.0054	.0001	2.419	.0010	-.0023

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0015**	**.0046**	**.6198**	**.0027**	**.0057**	**.0174**	**.0014**	**.0001**	**.0106**
Stddev	.0014	.0010	.0051	.0004	.0001	.0079	.0013	.0003	.0002
%RSD	97.72	20.79	.8189	13.34	2.178	45.65	96.18	429.5	1.434
#1	.0020	.0037	.6156	.0023	.0055	.0266	.0016	-.0001	.0106
#2	-.0001	.0044	.6184	.0028	.0057	.0124	.0025	-.0001	.0105
#3	.0026	.0056	.6254	.0030	.0058	.0132	-.0001	.0004	.0108

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4470.4**	**34390.**	**4045.5**
Stddev	40.2	171.	26.5
%RSD	.90028	.49713	.65516
#1	4486.7	34306.	4019.0
#2	4500.0	34277.	4072.0
#3	4424.6	34587.	4045.5

Sample Name: L1848767-13,T Acquired: 12/5/2018 16:23:00 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006**	**.0685**	**-.0034**	**-.0007**	**.0150**	**-.0000**	**.0009**	**2.153**	**-.0001**	**-.0001**
Stddev	.0011	.0209	.0008	.0004	.0004	.0001	.0016	.010	.0000	.0001
%RSD	179.4	30.55	22.09	56.81	2.616	325.6	188.3	.4850	78.90	140.7
#1	-.0005	.0797	-.0026	-.0003	.0147	-.0000	.0004	2.143	-.0000	.0000
#2	.0017	.0815	-.0038	-.0008	.0154	.0000	-.0005	2.163	-.0001	-.0001
#3	.0007	.0444	-.0039	-.0011	.0147	-.0001	.0027	2.154	-.0000	-.0002

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0019**	**.0041**	**.0653**	**.1647**	**.5616**	**.0029**	**-.0003**	**2.517**	**.0012**	**-.0004**
Stddev	.0010	.0002	.0018	.0542	.0025	.0003	.0001	.010	.0001	.0006
%RSD	51.66	4.957	2.765	32.89	.4398	10.30	29.06	.3832	9.515	158.9
#1	.0018	.0042	.0673	.1491	.5589	.0025	-.0003	2.512	.0013	-.0005
#2	.0010	.0042	.0647	.1201	.5621	.0030	-.0003	2.528	.0012	-.0010
#3	.0029	.0038	.0639	.2250	.5638	.0030	-.0005	2.511	.0011	.0003

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0011**	**.0039**	**.7616**	**.0033**	**.0058**	**.0161**	**.0003**	**-.0000**	**.0110**
Stddev	.0005	.0009	.0072	.0004	.0001	.0023	.0007	.0003	.0003
%RSD	43.70	23.45	.9422	13.39	2.174	14.42	232.8	6018.	2.487
#1	.0012	.0049	.7592	.0031	.0060	.0167	.0005	.0002	.0109
#2	.0006	.0034	.7560	.0030	.0057	.0180	.0009	-.0003	.0108
#3	.0016	.0033	.7697	.0038	.0059	.0135	-.0005	.0001	.0113

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4486.2**	**34541.**	**4112.6**
Stddev	43.1	143.	8.4
%RSD	.95993	.41369	.20371
#1	4495.8	34640.	4111.6
#2	4523.6	34377.	4121.5
#3	4439.1	34607.	4104.8

Sample Name: L1848767-14,T Acquired: 12/5/2018 16:27:38 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0012**	**.0817**	**-.0025**	**.0004**	**.0160**	**-.0000**	**-.0023**	**2.528**	**-.0000**	**.0001**
Stddev	.0002	.0034	.0010	.0006	.0001	.0000	.0009	.023	.0000	.0001
%RSD	21.34	4.169	38.96	144.9	.4977	134.6	37.87	.9276	47.70	121.8
#1	-.0010	.0788	-.0019	.0005	.0160	.0000	-.0013	2.549	-.0000	.0002
#2	-.0011	.0854	-.0036	.0009	.0160	-.0000	-.0029	2.531	-.0000	-.0000
#3	-.0015	.0807	-.0019	-.0002	.0159	-.0001	-.0028	2.503	-.0000	.0001

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0024**	**.0021**	**.1150**	**.1929**	**.4886**	**.0147**	**-.0001**	**1.717**	**.0011**	**-.0009**
Stddev	.0003	.0006	.0034	.0411	.0040	.0005	.0002	.023	.0004	.0010
%RSD	13.20	28.36	2.933	21.32	.8236	3.238	188.3	1.342	35.99	108.9
#1	.0023	.0028	.1111	.2369	.4847	.0142	-.0000	1.704	.0015	-.0003
#2	.0022	.0016	.1164	.1864	.4928	.0151	-.0004	1.704	.0007	-.0004
#3	.0028	.0021	.1174	.1555	.4882	.0148	.0000	1.744	.0012	-.0020

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0005**	**.0043**	**.6585**	**.0072**	**.0085**	**.0104**	**-.0024**	**-.0000**	**.0112**
Stddev	.0017	.0015	.0053	.0005	.0002	.0010	.0008	.0002	.0001
%RSD	345.9	35.61	.8071	6.500	2.628	10.01	32.43	709.8	.6971
#1	-.0001	.0048	.6542	.0069	.0087	.0110	-.0016	.0000	.0112
#2	.0010	.0026	.6569	.0070	.0086	.0109	-.0025	-.0003	.0112
#3	-.0023	.0055	.6644	.0078	.0083	.0092	-.0032	.0002	.0113

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4473.7**	**34364.**	**4056.9**
Stddev	37.9	122.	28.8
%RSD	.84672	.35387	.70903
#1	4484.1	34400.	4072.5
#2	4505.3	34463.	4023.7
#3	4431.8	34228.	4074.6

Sample Name: L1848767-15,T Acquired: 12/5/2018 16:32:16 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0672**	**-.0018**	**.0004**	**.0137**	**-.0001**	**-.0017**	**1.469**	**-.0000**	**.0001**
Stddev	.0003	.0049	.0029	.0007	.0003	.0001	.0012	.024	.0001	.0002
%RSD	233.9	7.323	164.2	184.2	2.314	226.4	72.03	1.598	168.0	103.9
#1	.0002	.0717	-.0002	.0008	.0135	.0001	-.0016	1.447	.0000	.0003
#2	.0004	.0678	-.0051	.0009	.0141	-.0002	-.0030	1.467	-.0000	.0002
#3	-.0002	.0620	.0000	-.0004	.0136	-.0001	-.0006	1.494	-.0001	-.0000

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0041**	**.0036**	**.0541**	**.1332**	**.2782**	**.0027**	**-.0002**	**2.389**	**.0015**	**-.0009**
Stddev	.0005	.0001	.0011	.0091	.0017	.0006	.0002	.004	.0002	.0009
%RSD	11.03	3.158	2.117	6.863	.6202	22.05	69.87	.1533	11.06	106.8
#1	.0038	.0037	.0534	.1434	.2771	.0020	-.0004	2.387	.0013	-.0016
#2	.0039	.0035	.0534	.1257	.2802	.0031	-.0001	2.393	.0017	-.0012
#3	.0046	.0036	.0554	.1305	.2774	.0029	-.0002	2.387	.0015	.0002

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**.0035**	**.6745**	**.0026**	**.0053**	**.0197**	**-.0017**	**.0002**	**.0051**
Stddev	.0008	.0030	.0053	.0004	.0003	.0062	.0017	.0002	.0001
%RSD	193.6	86.03	.7887	15.59	4.885	31.39	97.63	90.60	1.391
#1	.0003	.0063	.6714	.0021	.0050	.0265	.0001	.0003	.0050
#2	-.0003	.0039	.6715	.0028	.0052	.0144	-.0020	.0000	.0050
#3	.0012	.0003	.6806	.0029	.0055	.0183	-.0032	.0002	.0051

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4480.7**	**34497.**	**4099.4**
Stddev	40.1	153.	44.4
%RSD	.89466	.44311	1.0829
#1	4500.9	34343.	4055.5
#2	4506.6	34648.	4098.4
#3	4434.5	34500.	4144.3

Sample Name: L1848767-16,T Acquired: 12/5/2018 16:36:54 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment: 10

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0002**	**.1307**	**-.0022**	**.0006**	**.0255**	**-.0000**	**-.0017**	**2.670**	**-.0000**	**.0000**
Stddev	.0005	.0097	.0021	.0007	.0002	.0001	.0019	.014	.0000	.0003
%RSD	256.8	7.396	93.85	103.0	.9248	479.6	110.0	.5136	204.0	745.9
#1	.0002	.1195	-.0035	.0009	.0257	.0001	-.0002	2.683	.0000	.0003
#2	-.0007	.1368	-.0034	-.0001	.0252	-.0001	-.0038	2.672	-.0000	-.0002
#3	-.0001	.1356	.0002	.0011	.0256	-.0001	-.0010	2.656	-.0000	.0000

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0029**	**.0038**	**.1363**	**.1362**	**.5556**	**.0073**	**-.0003**	**1.811**	**.0014**	**-.0006**
Stddev	.0005	.0005	.0028	.0542	.0070	.0004	.0002	.018	.0002	.0021
%RSD	18.36	12.38	2.058	39.78	1.254	5.278	59.02	.9686	16.46	350.0
#1	.0035	.0043	.1364	.0942	.5487	.0071	-.0004	1.831	.0015	-.0014
#2	.0024	.0034	.1390	.1170	.5626	.0077	-.0004	1.798	.0011	.0018
#3	.0029	.0036	.1334	.1973	.5555	.0070	-.0001	1.804	.0015	-.0022

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0002**	**.0062**	**.6013**	**.0070**	**.0089**	**.0061**	**-.0021**	**-.0002**	**.0117**
Stddev	.0023	.0015	.0058	.0004	.0002	.0013	.0016	.0005	.0002
%RSD	1108.	24.01	.9626	5.954	2.123	21.25	76.52	224.8	1.301
#1	.0023	.0057	.5984	.0074	.0091	.0075	-.0004	-.0007	.0117
#2	-.0007	.0050	.5976	.0066	.0089	.0056	-.0023	-.0003	.0116
#3	-.0022	.0078	.6080	.0072	.0087	.0051	-.0036	.0003	.0119

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4488.7**	**34017.**	**3982.8**
Stddev	46.7	260.	12.5
%RSD	1.0398	.76524	.31471
#1	4531.8	33815.	3991.2
#2	4495.2	34311.	3968.4
#3	4439.1	33925.	3988.9

Sample Name: CCV Acquired: 12/5/2018 16:41:32 Type: QC
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4877**	F **.5642**	**.5010**	**.4968**	**.4992**	**.4885**	**-.0036**	**.4876**	**.4905**	**.4850**
Stddev	.0024	.0095	.0036	.0042	.0015	.0016	.0007	.0043	.0034	.0029
%RSD	.4926	1.681	.7276	.8527	.3090	.3329	19.71	.8737	.6840	.5880
#1	.4885	.5533	.5001	.4951	.5009	.4896	-.0032	.4845	.4889	.4839
#2	.4850	.5707	.4979	.4937	.4989	.4894	-.0045	.4925	.4882	.4829
#3	.4896	.5685	.5050	.5016	.4978	.4867	-.0033	.4859	.4943	.4882
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit		.5524								
Low Limit		.4476								

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4896**	**.4861**	**.5049**	**5.166**	**.5221**	**.5141**	**.4800**	**10.65**	**.4857**	**.5061**
Stddev	.0017	.0009	.0048	.060	.0070	.0012	.0034	.04	.0036	.0045
%RSD	.3447	.1805	.9554	1.172	1.336	.2371	.7172	.3421	.7360	.8814
#1	.4879	.4852	.5058	5.101	.5141	.5152	.4782	10.61	.4838	.5046
#2	.4896	.4870	.5092	5.176	.5271	.5143	.4778	10.68	.4835	.5025
#3	.4913	.4860	.4997	5.221	.5251	.5128	.4839	10.66	.4898	.5111
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5031**	**.5012**	**5.023**	**.4862**	**.4761**	**.4809**	**.4909**	**.5055**	**.4822**
Stddev	.0045	.0007	.030	.0045	.0019	.0005	.0020	.0008	.0030
%RSD	.8894	.1429	.5969	.9283	.3973	.1123	.4123	.1493	.6164
#1	.5009	.5007	5.016	.4829	.4780	.4804	.4916	.5063	.4809
#2	.5001	.5009	4.998	.4844	.4762	.4808	.4886	.5048	.4800
#3	.5082	.5020	5.056	.4914	.4742	.4815	.4924	.5055	.4856
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4581.5**	**33982.**	**3957.9**
Stddev	27.6	124.	28.2
%RSD	.60249	.36358	.71241
#1	4590.7	33953.	3987.2
#2	4603.3	33876.	3930.9
#3	4550.5	34118.	3955.7

Sample Name: CCB Acquired: 12/5/2018 16:45:57 Type: QC
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**.0081**	**-.0005**	**-.0001**	**.0005**	**.0002**	**-.0013**	**.0061**	**.0001**	**.0001**
Stddev	.0007	.0172	.0017	.0001	.0003	.0001	.0001	.0065	.0000	.0002
%RSD	2142.	213.1	367.3	134.6	59.74	54.25	10.85	105.7	36.79	374.3
#1	-.0003	.0082	-.0025	-.0002	.0002	.0002	-.0011	.0056	.0001	-.0001
#2	-.0006	-.0092	.0009	.0000	.0006	.0001	-.0014	.0129	.0001	.0000
#3	.0007	.0252	.0002	-.0000	.0009	.0004	-.0014	-.0001	.0000	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0005**	**.0020**	**-.0012**	**-.0054**	**.0052**	**.0008**	**.0015**	**.0136**	**.0007**	**.0000**
Stddev	.0006	.0006	.0018	.0285	.0033	.0007	.0005	.0081	.0001	.0000
%RSD	123.8	28.53	153.4	529.2	63.85	98.08	35.72	59.44	18.15	105.3
#1	-.0002	.0025	-.0006	-.0232	.0085	.0007	.0020	.0202	.0008	.0001
#2	-.0000	.0020	.0003	-.0205	.0053	.0000	.0016	.0159	.0007	.0000
#3	-.0011	.0014	-.0031	.0275	.0018	.0015	.0009	.0046	.0006	-.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0025**	**-.0006**	**.0005**	**.0015**	**-.0004**	**.0007**	**-.0008**	**.0001**	**.0016**
Stddev	.0007	.0017	.0007	.0004	.0002	.0003	.0015	.0002	.0001
%RSD	26.29	290.4	138.4	24.33	48.24	50.47	187.6	294.1	3.999
#1	.0018	.0013	-.0003	.0014	-.0006	.0010	-.0007	-.0001	.0015
#2	.0029	-.0019	.0007	.0019	-.0003	.0005	.0007	.0001	.0016
#3	.0029	-.0011	.0010	.0012	-.0003	.0004	-.0024	.0003	.0015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4533.6**	**33450.**	**3900.0**
Stddev	38.5	74.	8.4
%RSD	.84841	.21973	.21493
#1	4552.2	33390.	3906.3
#2	4559.2	33428.	3890.5
#3	4489.4	33532.	3903.2

Sample Name: WG1185573-1,T Acquired: 12/5/2018 16:50:37 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006**	**.0005**	**.0008**	**-.0009**	**.0005**	**.0002**	**-.0022**	**-.0004**	**-.0001**	**.0001**
Stddev	.0005	.0147	.0022	.0004	.0004	.0001	.0009	.0066	.0000	.0001
%RSD	80.29	3169.	279.5	46.73	87.79	76.64	42.03	1784.	43.20	192.4
#1	.0005	-.0097	.0033	-.0006	.0007	.0000	-.0024	.0072	-.0001	.0000
#2	.0002	-.0062	-.0002	-.0007	.0007	.0001	-.0012	-.0042	-.0001	.0002
#3	.0011	.0173	-.0007	-.0014	-.0000	.0003	-.0030	-.0041	-.0001	-.0000

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0022**	**.0016**	**.0127**	**-.0379**	**-.0027**	**.0074**	**.0006**	**.0180**	**.0007**	**-.0007**
Stddev	.0003	.0002	.0019	.0696	.0010	.0006	.0001	.0157	.0002	.0009
%RSD	12.73	14.46	15.37	183.6	39.23	7.753	20.76	87.27	28.73	133.6
#1	.0024	.0015	.0109	.0133	-.0024	.0067	.0006	.0222	.0007	-.0016
#2	.0019	.0014	.0148	-.0099	-.0038	.0078	.0008	.0006	.0005	-.0008
#3	.0022	.0018	.0124	-.1171	-.0018	.0075	.0005	.0313	.0008	.0003

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0011**	**-.0013**	**-.0008**	**.0010**	**-.0002**	**.0004**	**.0009**	**-.0002**	**-.0008**
Stddev	.0028	.0027	.0015	.0005	.0001	.0002	.0004	.0005	.0004
%RSD	251.4	209.9	180.2	50.84	34.99	52.34	39.07	205.8	51.58
#1	.0008	-.0012	-.0014	.0011	-.0003	.0006	.0007	-.0005	-.0011
#2	-.0015	-.0040	-.0019	.0016	-.0001	.0002	.0013	-.0005	-.0010
#3	.0040	.0014	.0008	.0005	-.0003	.0005	.0007	.0003	-.0003

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4530.3**	**33514.**	**3928.4**
Stddev	40.1	52.	10.1
%RSD	.88507	.15430	.25605
#1	4550.0	33535.	3918.6
#2	4556.7	33552.	3927.9
#3	4484.2	33455.	3938.7

Sample Name: L1848767-17,T Acquired: 12/5/2018 16:55:14 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006**	**.0495**	**-.0026**	**.0009**	**.0104**	**-.0000**	**-.0021**	**1.563**	**-.0001**	**.0002**
Stddev	.0001	.0158	.0004	.0011	.0002	.0001	.0013	.012	.0000	.0003
%RSD	19.09	31.92	14.07	121.3	2.244	522.2	59.19	.7766	71.60	159.4
#1	.0005	.0453	-.0028	.0018	.0105	-.0000	-.0010	1.549	-.0001	.0003
#2	.0007	.0669	-.0028	-.0003	.0104	-.0001	-.0019	1.567	-.0000	-.0002
#3	.0007	.0362	-.0022	.0013	.0101	.0001	-.0035	1.572	-.0000	.0005

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0017**	**.0062**	**.0457**	**.1250**	**.2884**	**.0022**	**.0001**	**2.569**	**.0007**	**-.0011**
Stddev	.0006	.0004	.0026	.0727	.0056	.0003	.0002	.026	.0004	.0006
%RSD	33.91	6.228	5.782	58.15	1.935	12.43	202.1	1.032	51.22	52.37
#1	.0022	.0058	.0455	.1186	.2874	.0023	.0004	2.569	.0004	-.0016
#2	.0011	.0061	.0484	.0557	.2945	.0018	-.0001	2.543	.0011	-.0005
#3	.0019	.0066	.0431	.2007	.2835	.0023	.0001	2.596	.0006	-.0011

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0017**	**.0035**	**.6717**	**.0032**	**.0052**	**.0232**	**.0000**	**-.0002**	**.0071**
Stddev	.0006	.0016	.0051	.0006	.0002	.0095	.0010	.0002	.0001
%RSD	34.82	45.42	.7600	17.21	4.236	41.10	3329.	132.2	2.065
#1	.0020	.0025	.6683	.0027	.0051	.0177	.0007	-.0004	.0072
#2	.0020	.0053	.6693	.0032	.0051	.0177	.0005	.0001	.0072
#3	.0010	.0026	.6776	.0038	.0055	.0342	-.0011	-.0002	.0069

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4496.0**	**33499.**	**4009.1**
Stddev	18.2	96.	33.2
%RSD	.40451	.28605	.82767
#1	4507.1	33605.	4042.3
#2	4505.9	33419.	3975.9
#3	4475.0	33473.	4009.1

Sample Name: L1848767-18,T Acquired: 12/5/2018 16:59:49 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006**	**.0970**	**-.0014**	**.0009**	**.0171**	**.0001**	**-.0025**	**2.488**	**-.0000**	**.0003**
Stddev	.0009	.0094	.0010	.0001	.0002	.0001	.0008	.007	.0000	.0003
%RSD	143.9	9.676	73.14	7.401	1.147	127.1	31.55	.2877	27.45	121.1
#1	.0016	.0949	-.0003	.0010	.0169	.0001	-.0027	2.484	-.0000	-.0001
#2	.0006	.1073	-.0016	.0009	.0170	-.0000	-.0031	2.496	-.0000	.0004
#3	-.0003	.0889	-.0023	.0010	.0173	.0001	-.0016	2.483	-.0000	.0006

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0023**	**.0052**	**.1217**	**.1657**	**.4996**	**.0069**	**-.0000**	**1.814**	**.0017**	**.0008**
Stddev	.0004	.0003	.0038	.0412	.0095	.0005	.0002	.009	.0001	.0011
%RSD	18.26	5.532	3.127	24.87	1.903	7.851	527.3	.5215	6.701	142.5
#1	.0026	.0055	.1213	.1258	.4891	.0066	.0002	1.813	.0018	-.0005
#2	.0026	.0053	.1256	.1631	.5019	.0066	-.0001	1.824	.0015	.0017
#3	.0018	.0049	.1181	.2081	.5077	.0075	-.0002	1.805	.0017	.0011

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0012**	**.0054**	**.6221**	**.0065**	**.0090**	**.0120**	**-.0014**	**.0006**	**.0104**
Stddev	.0009	.0006	.0064	.0006	.0004	.0041	.0001	.0004	.0000
%RSD	70.07	10.86	1.028	9.232	4.036	33.78	6.656	58.90	.4401
#1	.0005	.0061	.6173	.0058	.0093	.0087	-.0015	.0009	.0104
#2	.0011	.0050	.6196	.0067	.0086	.0165	-.0014	.0007	.0104
#3	.0022	.0052	.6294	.0070	.0092	.0108	-.0013	.0002	.0105

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4491.2**	**33556.**	**4006.0**
Stddev	20.6	149.	36.6
%RSD	.45853	.44282	.91269
#1	4500.6	33386.	4046.2
#2	4505.5	33626.	3997.0
#3	4467.6	33657.	3974.8

Sample Name: L1848767-19,T Acquired: 12/5/2018 17:04:24 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0013**	**.0884**	**-.0019**	**.0002**	**.0196**	**.0000**	**-.0020**	**2.712**	**-.0000**	**.0003**
Stddev	.0005	.0089	.0009	.0005	.0004	.0001	.0007	.011	.0000	.0002
%RSD	38.33	10.04	50.34	238.0	1.829	308.7	37.61	.3873	56.10	49.46
#1	.0014	.0803	-.0026	.0002	.0195	.0001	-.0026	2.717	-.0000	.0004
#2	.0007	.0871	-.0008	-.0003	.0200	.0000	-.0012	2.700	-.0000	.0005
#3	.0017	.0979	-.0022	.0007	.0193	-.0001	-.0021	2.720	-.0000	.0002

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0027**	**.0062**	**.1364**	**.1530**	**.5437**	**.0192**	**.0001**	**1.859**	**.0019**	**.0002**
Stddev	.0003	.0007	.0027	.0594	.0054	.0005	.0000	.014	.0005	.0015
%RSD	10.97	11.98	1.984	38.82	.9928	2.466	23.23	.7396	26.10	651.9
#1	.0024	.0056	.1392	.1209	.5468	.0193	.0001	1.870	.0024	.0020
#2	.0030	.0060	.1338	.1166	.5375	.0187	.0001	1.843	.0017	-.0008
#3	.0028	.0071	.1363	.2215	.5469	.0196	.0001	1.863	.0015	-.0005

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0002**	**.0040**	**.6188**	**.0074**	**.0087**	**.0263**	**.0003**	**.0005**	**.0136**
Stddev	.0004	.0029	.0053	.0003	.0002	.0039	.0006	.0002	.0001
%RSD	241.9	72.25	.8573	3.532	2.296	14.69	183.1	39.76	1.051
#1	-.0005	.0031	.6151	.0076	.0087	.0291	-.0001	.0006	.0137
#2	-.0001	.0073	.6165	.0075	.0084	.0279	.0000	.0006	.0135
#3	.0002	.0017	.6249	.0071	.0088	.0219	.0010	.0002	.0137

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4462.6**	**33284.**	**3963.8**
Stddev	23.4	86.	16.7
%RSD	.52497	.25852	.42052
#1	4476.0	33192.	3951.6
#2	4476.3	33297.	3982.8
#3	4435.6	33363.	3957.0

Sample Name: L1848767-20,T Acquired: 12/5/2018 17:09:00 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006**	**.0776**	**-.0013**	**-.0006**	**.0206**	**-.0000**	**-.0012**	**1.754**	**-.0000**	**.0002**
Stddev	.0009	.0042	.0004	.0007	.0001	.0002	.0011	.021	.0000	.0002
%RSD	154.3	5.417	31.17	117.8	.6251	602.3	87.02	1.201	128.5	112.9
#1	.0015	.0794	-.0015	.0002	.0208	-.0001	-.0013	1.737	-.0000	.0003
#2	-.0004	.0807	-.0016	-.0013	.0207	-.0002	-.0022	1.778	-.0000	-.0000
#3	.0007	.0728	-.0008	-.0008	.0205	.0002	-.0001	1.747	-.0000	.0002

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0029**	**.0091**	**.0479**	**.1548**	**.2961**	**.0041**	**.0002**	**2.479**	**.0010**	**.0003**
Stddev	.0004	.0002	.0021	.0538	.0035	.0007	.0000	.005	.0003	.0008
%RSD	12.95	2.504	4.473	34.72	1.177	16.31	22.22	.2117	31.94	229.8
#1	.0025	.0093	.0461	.1722	.2939	.0034	.0002	2.485	.0011	.0006
#2	.0031	.0090	.0474	.1978	.3001	.0046	.0002	2.479	.0006	.0010
#3	.0031	.0089	.0503	.0945	.2942	.0044	.0002	2.475	.0011	-.0005

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0019**	**.0031**	**.5389**	**.0026**	**.0050**	**.0185**	**.0007**	**.0003**	**.0110**
Stddev	.0015	.0019	.0017	.0005	.0004	.0019	.0006	.0001	.0001
%RSD	80.23	60.32	.3128	19.88	7.256	10.42	82.10	40.58	1.043
#1	.0037	.0049	.5371	.0024	.0050	.0199	.0001	.0003	.0110
#2	.0012	.0034	.5405	.0032	.0053	.0163	.0007	.0005	.0109
#3	.0009	.0011	.5392	.0023	.0046	.0192	.0013	.0002	.0111

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4448.0**	**33176.**	**3988.7**
Stddev	27.5	135.	40.2
%RSD	.61922	.40562	1.0069
#1	4469.0	33021.	3994.2
#2	4458.1	33263.	3946.0
#3	4416.8	33245.	4025.8

Sample Name: WG1185573-2,T Acquired: 12/5/2018 17:13:36 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0499**	**2.094**	**.1199**	**1.075**	**2.045**	**.0493**	**-.0048**	**9.941**	**.0528**	**.4961**
Stddev	.0013	.003	.0017	.008	.005	.0002	.0011	.034	.0005	.0045
%RSD	2.554	.1396	1.429	.7508	.2308	.3479	23.71	.3398	.9185	.9092
#1	.0485	2.094	.1194	1.069	2.042	.0491	-.0061	9.928	.0525	.4934
#2	.0500	2.097	.1184	1.071	2.042	.0494	-.0041	9.916	.0525	.4937
#3	.0511	2.091	.1218	1.084	2.051	.0495	-.0042	9.980	.0534	.5013

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2007**	**.2446**	**1.088**	**10.18**	**10.51**	**.5015**	**.9773**	**10.84**	**.4989**	**.4783**
Stddev	.0013	.0005	.002	.04	.07	.0017	.0085	.02	.0043	.0030
%RSD	.6556	.1986	.2184	.4137	.6712	.3363	.8665	.1738	.8579	.6318
#1	.1995	.2452	1.085	10.14	10.49	.5009	.9731	10.82	.4966	.4780
#2	.2004	.2444	1.089	10.19	10.45	.5002	.9717	10.83	.4961	.4755
#3	.2021	.2443	1.090	10.22	10.59	.5034	.9870	10.86	.5038	.4815

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5134**	**.1232**	**.5696**	**.9719**	**.9885**	**1.012**	**.1134**	**.5109**	**.5241**
Stddev	.0059	.0027	.0038	.0074	.0011	.000	.0015	.0006	.0048
%RSD	1.139	2.154	.6617	.7660	.1080	.0363	1.314	.1103	.9120
#1	.5083	.1241	.5664	.9679	.9893	1.012	.1118	.5102	.5216
#2	.5121	.1202	.5686	.9674	.9873	1.012	.1137	.5112	.5211
#3	.5198	.1252	.5737	.9805	.9890	1.013	.1147	.5112	.5296

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4442.3**	**32779.**	**3944.7**
Stddev	28.0	223.	30.3
%RSD	.62931	.68032	.76837
#1	4443.9	33027.	3971.3
#2	4469.5	32596.	3951.1
#3	4413.6	32714.	3911.7

Sample Name: WG1185573-3,T Acquired: 12/5/2018 17:18:02 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0510**	**2.101**	**.1195**	**1.094**	**2.063**	**.0496**	**-.0034**	**10.02**	**.0533**	**.4995**
Stddev	.0013	.009	.0014	.009	.007	.0003	.0009	.02	.0004	.0036
%RSD	2.519	.4278	1.148	.8687	.3299	.5904	28.04	.2059	.6979	.7296
#1	.0503	2.104	.1185	1.089	2.071	.0499	-.0032	10.01	.0532	.4976
#2	.0525	2.108	.1190	1.087	2.057	.0493	-.0044	10.04	.0530	.4973
#3	.0502	2.091	.1211	1.104	2.063	.0496	-.0025	10.00	.0537	.5038

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2072**	**.2501**	**1.147**	**10.23**	**10.52**	**.5048**	**.9896**	**10.86**	**.5044**	**.4823**
Stddev	.0002	.0010	.007	.04	.04	.0033	.0066	.02	.0033	.0032
%RSD	.1126	.4194	.5806	.3650	.4012	.6593	.6621	.2031	.6597	.6642
#1	.2070	.2490	1.147	10.23	10.57	.5041	.9865	10.88	.5034	.4796
#2	.2071	.2503	1.140	10.19	10.50	.5020	.9852	10.84	.5017	.4815
#3	.2074	.2510	1.153	10.27	10.48	.5085	.9971	10.87	.5081	.4859

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5216**	**.1262**	**.5754**	**.9813**	**.9974**	**1.023**	**.1154**	**.5144**	**.5295**
Stddev	.0073	.0015	.0042	.0072	.0017	.003	.0020	.0012	.0039
%RSD	1.403	1.212	.7341	.7364	.1734	.2517	1.755	.2333	.7460
#1	.5181	.1265	.5713	.9800	.9992	1.025	.1154	.5157	.5280
#2	.5166	.1246	.5752	.9749	.9957	1.022	.1133	.5133	.5265
#3	.5300	.1276	.5798	.9891	.9973	1.020	.1174	.5141	.5340

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4429.2**	**32691.**	**3967.7**
Stddev	34.4	106.	9.3
%RSD	.77777	.32275	.23529
#1	4440.1	32764.	3959.2
#2	4456.8	32740.	3977.7
#3	4390.6	32570.	3966.2

Sample Name: L1848760-01,T Acquired: 12/5/2018 17:22:28 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0015**	**.0703**	**-.0030**	**.0020**	**.0224**	**-.0000**	**-.0008**	**2.282**	**.0000**	**.0002**
Stddev	.0005	.0113	.0018	.0002	.0004	.0001	.0002	.010	.0000	.0003
%RSD	32.13	16.13	58.43	12.68	1.760	255.4	24.44	.4454	385.9	115.4
#1	.0019	.0649	-.0021	.0022	.0220	-.0001	-.0006	2.274	.0000	.0002
#2	.0010	.0833	-.0051	.0019	.0224	.0000	-.0009	2.278	-.0000	-.0000
#3	.0017	.0626	-.0019	.0017	.0228	.0000	-.0008	2.293	-.0000	.0005

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0027**	**.0072**	**.1231**	**.1442**	**.5020**	**.0070**	**.0022**	**1.838**	**.0018**	**-.0008**
Stddev	.0008	.0003	.0026	.0328	.0010	.0002	.0003	.011	.0007	.0006
%RSD	29.35	3.985	2.072	22.77	.1904	3.203	15.31	.6087	42.56	73.34
#1	.0020	.0074	.1257	.1819	.5010	.0069	.0025	1.829	.0026	-.0011
#2	.0036	.0069	.1206	.1227	.5027	.0069	.0019	1.850	.0016	-.0010
#3	.0026	.0072	.1231	.1278	.5025	.0073	.0021	1.834	.0011	-.0001

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0042**	**.0029**	**.5824**	**.0071**	**.0091**	**.0022**	**.0009**	**-.0001**	**.0083**
Stddev	.0009	.0021	.0069	.0003	.0002	.0003	.0013	.0001	.0002
%RSD	21.23	72.89	1.187	4.523	2.340	14.15	137.8	121.4	2.965
#1	.0051	.0050	.5789	.0074	.0093	.0021	.0009	-.0001	.0081
#2	.0033	.0029	.5779	.0073	.0089	.0025	.0022	.0000	.0083
#3	.0042	.0008	.5903	.0068	.0092	.0019	-.0004	-.0002	.0086

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4450.0**	**33157.**	**3987.2**
Stddev	34.3	140.	21.3
%RSD	.77126	.42207	.53503
#1	4450.1	33045.	4009.7
#2	4484.3	33314.	3984.7
#3	4415.7	33113.	3967.3

Sample Name: L1848760-02,T Acquired: 12/5/2018 17:27:05 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**.0913**	**-.0007**	**.0017**	**.0176**	**-.0000**	**-.0013**	**2.292**	**.0000**	**.0001**
Stddev	.0005	.0054	.0009	.0003	.0004	.0001	.0020	.013	.0000	.0002
%RSD	494.3	5.964	126.6	18.05	2.025	175.2	157.3	.5519	54.64	214.8
#1	-.0006	.0926	-.0015	.0021	.0172	.0000	-.0017	2.286	.0000	.0003
#2	.0003	.0959	-.0010	.0016	.0179	-.0001	.0009	2.283	.0000	.0001
#3	-.0000	.0852	.0003	.0016	.0178	-.0001	-.0029	2.306	.0000	-.0001

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0026**	**.0076**	**.1285**	**.1499**	**.5078**	**.0078**	**.0008**	**1.824**	**.0019**	**.0014**
Stddev	.0011	.0002	.0041	.0752	.0042	.0009	.0001	.002	.0002	.0012
%RSD	43.39	2.988	3.196	50.18	.8260	12.00	8.765	.1219	10.45	87.53
#1	.0037	.0078	.1289	.1278	.5089	.0072	.0007	1.825	.0017	.0022
#2	.0014	.0074	.1242	.0882	.5032	.0089	.0007	1.822	.0020	.0019
#3	.0026	.0077	.1323	.2337	.5114	.0074	.0008	1.826	.0020	-.0000

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0016**	**.0027**	**.5654**	**.0068**	**.0087**	**.0020**	**-.0021**	**.0002**	**.0125**
Stddev	.0021	.0023	.0059	.0004	.0003	.0002	.0005	.0005	.0002
%RSD	133.2	85.39	1.051	5.890	3.314	11.68	25.50	215.2	1.259
#1	-.0004	.0046	.5630	.0064	.0085	.0023	-.0026	.0007	.0126
#2	.0014	.0002	.5609	.0070	.0086	.0019	-.0021	-.0001	.0123
#3	.0038	.0032	.5721	.0072	.0090	.0019	-.0015	-.0000	.0125

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4442.9**	**33108.**	**3979.1**
Stddev	27.3	8.	25.4
%RSD	.61537	.02543	.63952
#1	4448.5	33105.	4006.8
#2	4467.1	33102.	3974.0
#3	4413.2	33118.	3956.6

Sample Name: L1848760-03,T Acquired: 12/5/2018 17:31:42 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment: 10

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**.0654**	**-.0014**	**-.0000**	**.0165**	**-.0001**	**.0003**	**1.153**	**-.0000**	**-.0000**
Stddev	.0022	.0055	.0005	.0007	.0001	.0001	.0017	.006	.0000	.0001
%RSD	22410.	8.372	33.38	1987.	.5184	163.2	624.6	.4837	57.00	313.9
#1	.0025	.0598	-.0019	.0006	.0165	.0001	.0021	1.147	-.0000	-.0000
#2	-.0017	.0707	-.0010	.0001	.0164	-.0001	-.0001	1.158	-.0000	.0001
#3	-.0008	.0657	-.0013	-.0008	.0165	-.0002	-.0012	1.154	-.0000	-.0001

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0026**	**.0074**	**.0559**	**.1262**	**.2722**	**.0624**	**.0002**	**2.405**	**.0017**	**.0013**
Stddev	.0004	.0002	.0017	.0327	.0017	.0004	.0001	.009	.0007	.0010
%RSD	15.81	2.493	3.050	25.95	.6165	.6413	52.72	.3742	41.43	82.04
#1	.0029	.0074	.0579	.1133	.2710	.0625	.0001	2.401	.0010	.0003
#2	.0021	.0076	.0548	.1018	.2741	.0628	.0003	2.415	.0024	.0012
#3	.0028	.0072	.0551	.1634	.2715	.0620	.0002	2.399	.0017	.0024

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**.0024**	**.4928**	**.0030**	**.0048**	**.0013**	**.0008**	**-.0002**	**.0044**
Stddev	.0017	.0008	.0045	.0004	.0002	.0007	.0015	.0004	.0001
%RSD	12520.	34.21	.9063	14.44	3.667	51.22	194.4	204.1	2.480
#1	-.0018	.0017	.4886	.0025	.0046	.0009	.0008	-.0002	.0046
#2	.0002	.0022	.4922	.0033	.0050	.0021	-.0007	.0002	.0044
#3	.0016	.0033	.4975	.0031	.0048	.0009	.0023	-.0006	.0044

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4461.0**	**32971.**	**3987.6**
Stddev	28.0	142.	24.4
%RSD	.62745	.42932	.61134
#1	4476.1	32983.	4015.7
#2	4478.2	33106.	3973.4
#3	4428.7	32824.	3973.6

Sample Name: CCV Acquired: 12/5/2018 17:36:21 Type: QC
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5038**	**.5381**	**.5008**	**.5151**	**.5149**	**.4904**	**-.0042**	**.4815**	**.4965**	**.4947**
Stddev	.0016	.0170	.0036	.0038	.0019	.0017	.0004	.0086	.0036	.0036
%RSD	.3264	3.157	.7279	.7323	.3659	.3444	10.75	1.790	.7258	.7214
#1	.5032	.5486	.4979	.5127	.5166	.4921	-.0040	.4763	.4949	.4936
#2	.5057	.5185	.4996	.5131	.5152	.4903	-.0047	.4767	.4940	.4918
#3	.5026	.5473	.5049	.5194	.5129	.4888	-.0038	.4914	.5007	.4987
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4950**	**.5040**	**.5153**	**5.032**	**.5201**	**.5132**	**.4843**	**10.72**	**.4947**	**.5020**
Stddev	.0037	.0012	.0013	.060	.0085	.0024	.0040	.12	.0037	.0032
%RSD	.7494	.2302	.2514	1.185	1.625	.4766	.8160	1.105	.7406	.6454
#1	.4960	.5049	.5147	5.068	.5297	.5159	.4825	10.84	.4931	.4997
#2	.4981	.5043	.5168	5.065	.5139	.5125	.4815	10.70	.4921	.5006
#3	.4909	.5027	.5144	4.963	.5165	.5111	.4888	10.61	.4989	.5057
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5090**	**.5347**	**5.080**	**.4881**	**.4793**	**.4806**	**.4998**	**.5078**	**.4962**
Stddev	.0044	.0068	.031	.0038	.0016	.0010	.0037	.0017	.0036
%RSD	.8679	1.266	.6103	.7718	.3401	.2147	.7486	.3396	.7248
#1	.5048	.5325	5.069	.4865	.4810	.4817	.4989	.5082	.4953
#2	.5087	.5293	5.056	.4854	.4792	.4803	.4965	.5093	.4931
#3	.5136	.5423	5.115	.4924	.4777	.4797	.5039	.5059	.5001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4563.2**	**33702.**	**4000.0**
Stddev	35.8	76.	22.0
%RSD	.78421	.22477	.54954
#1	4567.0	33658.	3983.1
#2	4597.0	33790.	4024.9
#3	4525.7	33659.	3992.1

Sample Name: CCB Acquired: 12/5/2018 17:40:47 Type: QC
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**-.0060**	**.0005**	**-.0015**	**.0002**	**.0001**	**-.0007**	**.0050**	**.0001**	**.0002**
Stddev	.0010	.0065	.0004	.0007	.0002	.0002	.0018	.0128	.0000	.0001
%RSD	199.0	108.2	93.55	45.60	119.6	185.8	254.7	254.2	33.72	44.38
#1	-.0007	-.0082	-.0000	-.0007	.0004	.0003	.0005	.0086	.0001	.0003
#2	.0011	-.0111	.0006	-.0020	.0000	.0001	.0002	.0157	.0001	.0002
#3	.0011	.0013	.0008	-.0016	.0001	-.0001	-.0028	-.0092	.0001	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0003**	**.0041**	**-.0027**	**-.0158**	**.0007**	**.0009**	**.0018**	**.0236**	**.0008**	**-.0007**
Stddev	.0007	.0003	.0042	.0607	.0024	.0009	.0005	.0156	.0003	.0014
%RSD	243.3	6.121	153.6	384.1	340.0	97.29	27.23	66.17	29.98	197.3
#1	-.0002	.0038	-.0056	-.0715	.0023	.0002	.0024	.0065	.0010	.0009
#2	-.0010	.0042	.0021	-.0250	.0020	.0019	.0016	.0272	.0006	-.0018
#3	.0004	.0043	-.0045	.0490	-.0021	.0006	.0015	.0370	.0009	-.0013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008**	**-.0003**	**.0013**	**.0013**	**-.0004**	**.0009**	**.0002**	**-.0002**	**.0017**
Stddev	.0014	.0016	.0007	.0009	.0008	.0001	.0007	.0005	.0001
%RSD	175.1	640.4	53.14	65.12	201.1	9.104	393.6	228.9	6.434
#1	.0023	-.0021	.0020	.0020	-.0011	.0010	-.0004	-.0007	.0017
#2	.0006	.0004	.0006	.0017	.0005	.0009	.0000	.0002	.0016
#3	-.0005	.0009	.0015	.0003	-.0005	.0009	.0009	-.0002	.0019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4512.4**	**33416.**	**3978.7**
Stddev	29.2	129.	19.6
%RSD	.64723	.38703	.49204
#1	4533.5	33504.	3956.3
#2	4524.7	33477.	3992.5
#3	4479.1	33267.	3987.4

Sample Name: L1848760-04,T Acquired: 12/5/2018 17:45:28 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0013**	**.0866**	**-.0019**	**.0000**	**.0181**	**.0001**	**-.0013**	**2.347**	**-.0000**	**.0001**
Stddev	.0013	.0070	.0013	.0002	.0002	.0000	.0007	.017	.0001	.0002
%RSD	97.63	8.079	72.46	422.6	1.226	45.76	50.50	.7285	175.9	162.5
#1	.0002	.0914	-.0034	-.0001	.0183	.0000	-.0006	2.329	-.0001	.0002
#2	.0027	.0897	-.0011	.0003	.0178	.0001	-.0014	2.351	-.0001	-.0001
#3	.0010	.0786	-.0011	-.0000	.0182	.0001	-.0020	2.363	.0000	.0002

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0122**	**.0075**	**.1589**	**.1148**	**.4966**	**.0076**	**.0025**	**1.833**	**.0042**	**.0005**
Stddev	.0004	.0005	.0018	.0356	.0017	.0004	.0002	.022	.0001	.0013
%RSD	2.954	7.328	1.119	30.98	.3412	4.836	9.536	1.204	1.899	273.5
#1	.0125	.0078	.1609	.1228	.4983	.0076	.0028	1.833	.0043	.0008
#2	.0122	.0068	.1578	.1458	.4950	.0079	.0024	1.855	.0042	.0017
#3	.0118	.0077	.1579	.0760	.4965	.0072	.0024	1.811	.0041	-.0010

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0009**	**.0043**	**.5852**	**.0082**	**.0088**	**.0021**	**-.0019**	**-.0001**	**.0096**
Stddev	.0022	.0018	.0055	.0002	.0004	.0002	.0010	.0002	.0001
%RSD	239.4	42.33	.9328	2.133	4.102	10.41	53.87	178.4	1.188
#1	-.0014	.0042	.5845	.0082	.0089	.0023	-.0012	-.0004	.0095
#2	.0010	.0061	.5801	.0080	.0092	.0021	-.0031	-.0001	.0096
#3	.0031	.0025	.5910	.0083	.0084	.0019	-.0015	.0001	.0097

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4452.4**	**33243.**	**4013.5**
Stddev	42.1	84.	.9
%RSD	.94530	.25335	.02201
#1	4476.7	33147.	4013.5
#2	4476.7	33304.	4012.6
#3	4403.8	33278.	4014.3

Sample Name: L1848760-05,T Acquired: 12/5/2018 17:50:06 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008**	**.0306**	**-.0017**	**.0009**	**.0091**	**.0001**	**-.0014**	**1.267**	**-.0000**	**.0001**
Stddev	.0010	.0100	.0013	.0009	.0002	.0001	.0008	.004	.0001	.0001
%RSD	119.0	32.73	75.60	100.2	2.124	90.69	56.09	.3361	311.7	121.4
#1	.0004	.0230	-.0019	.0013	.0089	.0001	-.0021	1.266	.0000	-.0000
#2	.0001	.0269	-.0003	.0015	.0092	.0002	-.0006	1.264	-.0001	.0002
#3	.0019	.0420	-.0029	-.0001	.0093	.0000	-.0016	1.272	-.0000	.0001

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0289**	**.0081**	**.1607**	**.1522**	**.2782**	**.0033**	**.0040**	**2.489**	**.0066**	**.0006**
Stddev	.0001	.0003	.0038	.0229	.0058	.0006	.0004	.000	.0003	.0009
%RSD	.4370	3.102	2.353	15.04	2.081	18.00	10.67	.0158	3.991	138.2
#1	.0290	.0079	.1650	.1772	.2800	.0039	.0041	2.489	.0066	.0014
#2	.0289	.0080	.1591	.1323	.2828	.0027	.0035	2.489	.0063	.0009
#3	.0287	.0084	.1580	.1470	.2717	.0033	.0043	2.489	.0068	-.0003

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**.0022**	**.5800**	**.0032**	**.0050**	**.0014**	**-.0017**	**.0005**	**.0058**
Stddev	.0004	.0010	.0063	.0003	.0004	.0004	.0009	.0002	.0002
%RSD	112.2	46.46	1.094	8.880	7.605	29.97	56.33	49.07	3.460
#1	.0003	.0022	.5761	.0029	.0048	.0015	-.0009	.0004	.0057
#2	.0000	.0032	.5765	.0033	.0047	.0009	-.0027	.0008	.0057
#3	.0009	.0012	.5873	.0034	.0054	.0017	-.0015	.0003	.0060

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4430.4**	**33118.**	**4020.7**
Stddev	37.1	85.	17.4
%RSD	.83813	.25799	.43268
#1	4455.2	33026.	4024.3
#2	4448.3	33132.	4036.0
#3	4387.7	33195.	4001.8

Sample Name: L1848760-06,T Acquired: 12/5/2018 17:54:42 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0005**	**.0435**	**.0004**	**.0008**	**.0062**	**-.0001**	**-.0023**	**1.197**	**-.0000**	**.0008**
Stddev	.0010	.0123	.0015	.0005	.0002	.0001	.0015	.004	.0000	.0005
%RSD	192.8	28.18	387.7	61.38	2.739	93.35	64.55	.3092	156.6	66.41
#1	.0006	.0294	-.0013	.0013	.0063	.0000	-.0015	1.201	-.0000	.0005
#2	-.0015	.0491	.0012	.0003	.0060	-.0001	-.0014	1.194	.0000	.0013
#3	-.0007	.0519	.0012	.0010	.0061	-.0002	-.0040	1.197	-.0001	.0005

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0519**	**.0095**	**.2782**	**.1269**	**.2936**	**.0077**	**.0031**	**2.585**	**.0323**	**-.0004**
Stddev	.0004	.0003	.0026	.0535	.0010	.0004	.0001	.029	.0004	.0012
%RSD	.6927	2.975	.9281	42.16	.3321	5.532	3.227	1.124	1.197	300.1
#1	.0518	.0096	.2809	.1298	.2925	.0081	.0032	2.575	.0320	-.0016
#2	.0517	.0097	.2758	.1790	.2944	.0073	.0030	2.618	.0322	-.0005
#3	.0523	.0092	.2778	.0720	.2939	.0077	.0031	2.563	.0328	.0009

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0023**	**.6012**	**.0033**	**.0046**	**.0016**	**-.0025**	**.0001**	**.0042**
Stddev	.0018	.0012	.0032	.0001	.0001	.0004	.0008	.0002	.0002
%RSD	579.2	55.18	.5247	4.286	3.244	23.64	33.27	227.2	5.902
#1	-.0011	.0008	.5990	.0034	.0047	.0017	-.0026	-.0001	.0044
#2	.0023	.0029	.5998	.0033	.0045	.0012	-.0016	.0003	.0042
#3	-.0003	.0030	.6048	.0031	.0044	.0019	-.0032	.0001	.0039

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4431.2**	**32857.**	**3946.8**
Stddev	21.9	99.	27.4
%RSD	.49500	.30275	.69446
#1	4433.2	32743.	3922.4
#2	4452.1	32899.	3941.4
#3	4408.3	32929.	3976.4

Sample Name: L1848760-07,T Acquired: 12/5/2018 17:59:16 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.1040**	**-.0021**	**.0012**	**.0148**	**.0001**	**-.0002**	**2.475**	**.0000**	**.0005**
Stddev	.0014	.0024	.0014	.0003	.0005	.0001	.0026	.017	.0000	.0002
%RSD	572.9	2.271	70.14	22.29	3.148	88.50	1380.	.6926	81.33	40.27
#1	-.0011	.1058	-.0033	.0009	.0153	.0000	.0013	2.475	.0000	.0003
#2	.0001	.1048	-.0024	.0015	.0149	.0002	.0014	2.458	.0000	.0006
#3	.0017	.1013	-.0005	.0013	.0144	.0001	-.0032	2.492	.0000	.0007

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0755**	**.0135**	**.3771**	**.1432**	**.5358**	**.0235**	**.0091**	**1.862**	**.0171**	**-.0010**
Stddev	.0004	.0007	.0013	.0441	.0060	.0002	.0001	.010	.0002	.0005
%RSD	.5356	4.893	.3327	30.78	1.114	.7460	1.246	.5547	1.176	48.62
#1	.0753	.0128	.3769	.1095	.5387	.0237	.0090	1.870	.0170	-.0016
#2	.0760	.0137	.3760	.1931	.5289	.0234	.0092	1.850	.0174	-.0007
#3	.0753	.0141	.3785	.1270	.5397	.0234	.0092	1.866	.0170	-.0007

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**.0030**	**.6299**	**.0091**	**.0090**	**.0110**	**-.0009**	**.0011**	**.0119**
Stddev	.0016	.0034	.0025	.0002	.0001	.0004	.0008	.0005	.0001
%RSD	21430.	112.1	.3898	2.501	1.193	3.178	89.51	45.85	.7672
#1	-.0018	.0044	.6304	.0094	.0090	.0107	-.0001	.0012	.0119
#2	.0009	.0054	.6272	.0089	.0091	.0110	-.0018	.0015	.0119
#3	.0010	-.0008	.6320	.0092	.0089	.0114	-.0010	.0005	.0118

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4414.6**	**32822.**	**3923.4**
Stddev	16.8	159.	30.9
%RSD	.38124	.48430	.78642
#1	4414.3	33003.	3900.8
#2	4431.6	32758.	3958.6
#3	4398.0	32705.	3910.8

Sample Name: L1848760-08,T Acquired: 12/5/2018 18:03:51 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0011**	**.0375**	**-.0023**	**.0001**	**.0056**	**-.0000**	**-.0017**	**1.440**	**-.0000**	**.0003**
Stddev	.0010	.0147	.0014	.0001	.0001	.0001	.0022	.007	.0000	.0001
%RSD	88.20	39.18	60.51	108.9	2.155	649.2	132.1	.5084	106.4	48.02
#1	.0019	.0544	-.0033	.0001	.0057	-.0002	-.0042	1.432	-.0000	.0001
#2	.0014	.0274	-.0027	-.0000	.0056	.0001	-.0002	1.446	-.0001	.0003
#3	.0000	.0308	-.0007	.0002	.0054	-.0000	-.0007	1.442	.0000	.0004

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0015**	**.0078**	**.0546**	**.1319**	**.2934**	**.0028**	**.0001**	**2.498**	**.0028**	**-.0004**
Stddev	.0009	.0008	.0008	.0576	.0057	.0007	.0002	.030	.0004	.0010
%RSD	57.61	10.54	1.402	43.66	1.934	25.64	209.5	1.189	13.75	219.4
#1	.0017	.0087	.0538	.1466	.2869	.0034	.0002	2.474	.0023	.0006
#2	.0022	.0070	.0553	.1808	.2972	.0020	.0002	2.490	.0029	-.0014
#3	.0005	.0078	.0548	.0684	.2962	.0030	-.0001	2.531	.0031	-.0005

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0007**	**.0036**	**.5595**	**.0032**	**.0052**	**.0078**	**-.0002**	**.0002**	**.0076**
Stddev	.0028	.0028	.0060	.0003	.0004	.0010	.0014	.0003	.0002
%RSD	397.3	78.93	1.072	9.294	7.982	12.52	553.4	132.9	3.084
#1	.0040	.0067	.5567	.0036	.0057	.0074	-.0004	.0005	.0077
#2	-.0010	.0028	.5554	.0030	.0049	.0089	.0012	.0001	.0073
#3	-.0009	.0012	.5664	.0031	.0050	.0071	-.0016	.0000	.0077

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4400.0**	**33023.**	**3980.4**
Stddev	23.8	73.	24.0
%RSD	.54072	.22182	.60408
#1	4409.2	33103.	4003.1
#2	4417.8	33007.	3955.2
#3	4373.0	32959.	3983.0

Sample Name: L1848760-09,T Acquired: 12/5/2018 18:08:28 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0010**	**.0728**	**-.0020**	**.0002**	**.0072**	**.0001**	**-.0021**	**1.477**	**-.0000**	**-.0000**
Stddev	.0004	.0124	.0014	.0003	.0001	.0001	.0011	.012	.0000	.0003
%RSD	47.16	17.05	67.58	215.9	1.378	80.89	54.67	.7976	341.8	2387.
#1	.0015	.0780	-.0021	.0000	.0072	.0000	-.0029	1.488	.0000	.0001
#2	.0006	.0819	-.0007	-.0001	.0073	.0001	-.0008	1.477	-.0000	-.0003
#3	.0008	.0587	-.0034	.0005	.0071	.0001	-.0026	1.464	-.0000	.0001

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008**	**.0074**	**.0584**	**.1564**	**.2975**	**.0047**	**-.0001**	**2.627**	**.0005**	**-.0009**
Stddev	.0007	.0001	.0021	.0184	.0018	.0004	.0002	.028	.0002	.0007
%RSD	89.43	1.779	3.595	11.74	.6058	9.317	264.4	1.075	30.34	77.77
#1	.0014	.0075	.0575	.1726	.2966	.0052	.0000	2.600	.0005	-.0014
#2	.0008	.0074	.0569	.1364	.2996	.0045	.0001	2.625	.0007	-.0001
#3	.0000	.0072	.0608	.1601	.2963	.0045	-.0003	2.656	.0004	-.0012

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0009**	**.0039**	**.5860**	**.0028**	**.0048**	**.0119**	**-.0010**	**.0002**	**.0081**
Stddev	.0016	.0025	.0016	.0004	.0003	.0030	.0005	.0003	.0001
%RSD	179.7	64.79	.2705	12.99	6.767	25.49	51.13	185.1	.9147
#1	-.0004	.0062	.5850	.0027	.0045	.0088	-.0006	-.0002	.0080
#2	-.0026	.0044	.5850	.0026	.0048	.0149	-.0008	.0002	.0081
#3	.0004	.0012	.5878	.0032	.0051	.0120	-.0015	.0005	.0082

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4417.3**	**33070.**	**3973.0**
Stddev	17.9	55.	20.4
%RSD	.40584	.16518	.51419
#1	4429.0	33022.	3950.9
#2	4426.3	33058.	3977.0
#3	4396.7	33129.	3991.1

Sample Name: L1848760-10,T Acquired: 12/5/2018 18:13:03 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0012**	**.0876**	**-.0022**	**-.0005**	**.0112**	**.0000**	**-.0025**	**2.386**	**-.0000**	**.0001**
Stddev	.0010	.0069	.0006	.0002	.0003	.0003	.0002	.004	.0000	.0001
%RSD	78.40	7.823	29.03	41.65	2.307	1077.	9.602	.1626	60.81	58.93
#1	.0016	.0927	-.0022	-.0006	.0115	-.0003	-.0023	2.390	-.0000	.0002
#2	.0001	.0798	-.0028	-.0003	.0110	.0001	-.0027	2.386	-.0001	.0001
#3	.0020	.0902	-.0015	-.0006	.0112	.0003	-.0025	2.383	-.0000	.0001

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0036**	**.0081**	**.1365**	**.1904**	**.5018**	**.0257**	**-.0002**	**1.796**	**.0022**	**.0001**
Stddev	.0003	.0005	.0035	.0550	.0057	.0004	.0001	.034	.0001	.0019
%RSD	8.050	5.873	2.593	28.90	1.132	1.391	62.76	1.885	6.096	2201.
#1	.0038	.0085	.1406	.1278	.5081	.0254	-.0000	1.824	.0024	-.0011
#2	.0033	.0076	.1343	.2310	.4972	.0261	-.0002	1.807	.0021	.0023
#3	.0038	.0081	.1347	.2125	.5001	.0255	-.0002	1.759	.0022	-.0009

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0002**	**.0042**	**.5699**	**.0075**	**.0084**	**.0060**	**.0005**	**-.0001**	**.0104**
Stddev	.0019	.0004	.0058	.0005	.0002	.0013	.0002	.0004	.0002
%RSD	987.3	8.532	1.011	6.320	2.108	21.13	48.38	671.4	1.820
#1	-.0010	.0039	.5685	.0071	.0086	.0048	.0003	-.0001	.0103
#2	-.0015	.0046	.5650	.0080	.0082	.0073	.0005	.0004	.0103
#3	.0020	.0040	.5763	.0074	.0084	.0059	.0007	-.0005	.0107

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4391.1**	**32813.**	**3932.0**
Stddev	35.8	86.	14.0
%RSD	.81600	.26312	.35649
#1	4398.9	32838.	3926.5
#2	4422.5	32885.	3947.9
#3	4352.1	32718.	3921.4

Sample Name: L1848760-11,T Acquired: 12/5/2018 18:17:39 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**.0864**	**-.0034**	**.0010**	**.0101**	**.0001**	**-.0010**	**2.343**	**.0000**	**.0002**
Stddev	.0005	.0171	.0017	.0003	.0004	.0001	.0023	.021	.0000	.0000
%RSD	1703.	19.80	51.07	30.06	3.511	113.2	219.7	.9072	605.4	18.30
#1	.0002	.0775	-.0024	.0011	.0103	.0001	.0016	2.367	.0000	.0002
#2	-.0005	.1061	-.0054	.0006	.0104	.0002	-.0023	2.329	-.0000	.0001
#3	.0004	.0755	-.0024	.0012	.0097	-.0000	-.0023	2.332	.0000	.0001

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0028**	**.0082**	**.1359**	**.1141**	**.5137**	**.0239**	**-.0003**	**1.837**	**.0023**	**.0000**
Stddev	.0009	.0001	.0012	.0721	.0025	.0001	.0000	.016	.0002	.0011
%RSD	30.55	.9367	.8787	63.23	.4795	.3296	16.69	.8543	7.089	119100.
#1	.0033	.0082	.1367	.0662	.5120	.0238	-.0003	1.824	.0024	-.0004
#2	.0034	.0082	.1365	.1970	.5165	.0239	-.0002	1.831	.0022	.0012
#3	.0018	.0083	.1345	.0791	.5127	.0240	-.0003	1.854	.0021	-.0008

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0005**	**.0018**	**.6356**	**.0079**	**.0084**	**.0078**	**-.0000**	**.0002**	**.0106**
Stddev	.0011	.0018	.0053	.0001	.0001	.0032	.0009	.0003	.0002
%RSD	224.5	97.57	.8260	1.137	1.708	40.85	6656.	170.1	2.147
#1	-.0003	.0033	.6317	.0079	.0086	.0113	.0010	.0002	.0104
#2	.0005	.0023	.6337	.0078	.0083	.0068	-.0007	-.0001	.0104
#3	-.0016	-.0001	.6416	.0080	.0085	.0052	-.0003	.0004	.0108

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4375.3**	**32590.**	**3868.0**
Stddev	26.8	176.	3.8
%RSD	.61247	.54104	.09892
#1	4380.8	32417.	3868.6
#2	4398.9	32585.	3864.0
#3	4346.2	32769.	3871.5

Sample Name: L1848760-12,T Acquired: 12/5/2018 18:22:15 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0002**	**.0568**	**-.0018**	**.0002**	**.0077**	**.0001**	**-.0028**	**1.467**	**-.0000**	**.0002**
Stddev	.0011	.0066	.0019	.0005	.0003	.0000	.0013	.013	.0000	.0002
%RSD	688.3	11.67	104.4	237.7	4.129	47.36	46.57	.8610	385.3	143.5
#1	-.0003	.0509	-.0022	.0003	.0079	.0001	-.0023	1.453	-.0000	.0004
#2	.0010	.0640	-.0035	-.0003	.0073	.0000	-.0019	1.478	.0000	.0002
#3	-.0012	.0555	.0002	.0006	.0078	.0001	-.0043	1.468	-.0000	-.0001

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0057**	**.0083**	**.0615**	**.1892**	**.2961**	**.0376**	**.0003**	**2.596**	**.0018**	**-.0005**
Stddev	.0001	.0000	.0031	.0491	.0061	.0002	.0002	.012	.0001	.0016
%RSD	1.479	.2203	5.057	25.95	2.074	.5533	57.50	.4496	4.669	321.5
#1	.0056	.0083	.0632	.2357	.2893	.0376	.0004	2.584	.0019	-.0020
#2	.0057	.0083	.0579	.1939	.3013	.0379	.0004	2.607	.0017	.0012
#3	.0058	.0083	.0633	.1379	.2978	.0375	.0001	2.598	.0019	-.0007

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0014**	**.0029**	**.6388**	**.0030**	**.0052**	**.0075**	**-.0001**	**.0002**	**.0072**
Stddev	.0005	.0022	.0070	.0003	.0004	.0004	.0004	.0001	.0002
%RSD	34.00	77.70	1.096	11.13	7.935	5.235	299.1	78.00	2.172
#1	.0011	.0040	.6329	.0034	.0050	.0075	.0003	.0002	.0072
#2	.0019	.0003	.6369	.0030	.0050	.0071	-.0005	.0003	.0071
#3	.0011	.0044	.6465	.0027	.0057	.0079	-.0002	.0000	.0074

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4389.2**	**32842.**	**3950.1**
Stddev	25.4	29.	27.5
%RSD	.57939	.08699	.69661
#1	4395.1	32811.	3979.1
#2	4411.1	32866.	3924.4
#3	4361.3	32851.	3946.7

Sample Name: L1848760-13,T Acquired: 12/5/2018 18:26:52 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment: 10

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0007**	**.0811**	**-.0012**	**.0005**	**.0097**	**.0000**	**-.0013**	**2.495**	**-.0000**	**.0003**
Stddev	.0007	.0082	.0013	.0004	.0003	.0001	.0011	.015	.0000	.0001
%RSD	93.22	10.05	108.3	66.31	2.592	1449.	89.56	.5925	39.91	39.34
#1	.0015	.0734	-.0027	.0008	.0099	.0001	-.0024	2.499	-.0000	.0003
#2	.0002	.0896	-.0001	.0006	.0099	-.0001	-.0001	2.508	-.0000	.0003
#3	.0005	.0803	-.0009	.0001	.0094	.0001	-.0013	2.479	-.0000	.0001

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0035**	**.0084**	**.1451**	**.1625**	**.5197**	**.0277**	**.0000**	**1.880**	**.0021**	**-.0006**
Stddev	.0012	.0003	.0030	.0350	.0089	.0005	.0002	.012	.0000	.0014
%RSD	35.83	3.658	2.089	21.52	1.705	1.730	371.5	.6472	2.147	216.4
#1	.0027	.0086	.1440	.1899	.5175	.0272	-.0001	1.881	.0021	.0008
#2	.0049	.0085	.1485	.1744	.5121	.0280	.0002	1.867	.0021	-.0018
#3	.0028	.0080	.1427	.1231	.5294	.0280	.0001	1.891	.0022	-.0009

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0021**	**.0026**	**.6337**	**.0078**	**.0088**	**.0066**	**.0005**	**.0002**	**.0121**
Stddev	.0003	.0008	.0066	.0004	.0003	.0010	.0006	.0006	.0002
%RSD	16.09	32.71	1.046	4.558	3.073	15.12	105.8	273.6	1.992
#1	-.0017	.0017	.6290	.0078	.0085	.0067	.0012	-.0003	.0120
#2	-.0024	.0027	.6308	.0075	.0089	.0075	.0002	.0009	.0120
#3	-.0021	.0034	.6413	.0082	.0089	.0055	.0002	.0001	.0124

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4418.8**	**32973.**	**3969.0**
Stddev	33.4	124.	25.2
%RSD	.75588	.37547	.63497
#1	4438.1	32948.	3979.3
#2	4438.0	32864.	3987.4
#3	4380.2	33108.	3940.3

Sample Name: CCV Acquired: 12/5/2018 18:31:29 Type: QC
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5074**	**.5279**	**.5040**	**.5218**	**.5209**	**.4937**	**-.0037**	**.4858**	**.4985**	**.4987**
Stddev	.0013	.0139	.0039	.0045	.0040	.0035	.0013	.0007	.0040	.0039
%RSD	.2573	2.636	.7781	.8694	.7671	.7014	34.61	.1490	.8058	.7775
#1	.5088	.5189	.5024	.5201	.5255	.4977	-.0039	.4861	.4960	.4960
#2	.5074	.5209	.5012	.5184	.5183	.4913	-.0048	.4863	.4964	.4969
#3	.5062	.5440	.5085	.5269	.5189	.4923	-.0023	.4850	.5031	.5031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4944**	**.5071**	**.5260**	**5.051**	**.5149**	**.5131**	**.4849**	**10.79**	**.4971**	**.5001**
Stddev	.0016	.0009	.0047	.035	.0055	.0040	.0051	.13	.0043	.0060
%RSD	.3317	.1826	.8845	.6995	1.068	.7858	1.042	1.161	.8669	1.197
#1	.4958	.5076	.5314	5.090	.5210	.5176	.4814	10.94	.4951	.4965
#2	.4949	.5077	.5229	5.022	.5105	.5117	.4827	10.74	.4942	.4967
#3	.4926	.5061	.5238	5.042	.5132	.5099	.4907	10.71	.5021	.5070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5130**	**.5419**	**5.114**	**.4889**	**.4819**	**.4805**	**.5041**	**.5080**	**.5009**
Stddev	.0042	.0040	.039	.0043	.0024	.0012	.0029	.0028	.0041
%RSD	.8143	.7362	.7535	.8784	.4941	.2477	.5786	.5524	.8117
#1	.5103	.5390	5.092	.4875	.4843	.4804	.5033	.5083	.4988
#2	.5110	.5403	5.090	.4855	.4795	.4817	.5016	.5107	.4983
#3	.5179	.5465	5.158	.4937	.4817	.4793	.5073	.5051	.5056
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4541.1**	**33588.**	**4011.2**
Stddev	27.0	190.	22.6
%RSD	.59407	.56675	.56416
#1	4564.3	33588.	3986.1
#2	4547.6	33397.	4017.8
#3	4511.5	33778.	4029.9

Sample Name: CCB Acquired: 12/5/2018 18:35:55 Type: QC
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0038**	**.0012**	**-.0001**	**.0000**	**.0001**	**-.0012**	**.0056**	**.0001**	**.0000**
Stddev	.0005	.0132	.0013	.0006	.0001	.0001	.0004	.0069	.0000	.0002
%RSD	301.8	348.3	107.0	1015.	1502.	186.5	29.20	122.4	38.01	908.3
#1	-.0001	-.0091	.0019	.0005	-.0001	.0002	-.0008	.0117	.0000	.0002
#2	-.0001	.0173	.0019	-.0007	-.0000	-.0001	-.0014	.0071	.0001	-.0002
#3	.0007	.0032	-.0003	.0000	.0002	.0001	-.0014	-.0019	.0001	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0006**	**.0049**	**.0019**	**-.0291**	**-.0015**	**.0010**	**.0015**	**.0179**	**.0005**	**.0003**
Stddev	.0003	.0007	.0049	.0501	.0057	.0003	.0004	.0033	.0003	.0010
%RSD	50.07	14.21	257.6	171.9	369.5	33.24	28.77	18.48	63.26	368.5
#1	-.0010	.0054	-.0011	-.0611	.0031	.0012	.0019	.0157	.0001	.0003
#2	-.0004	.0051	.0076	.0286	.0001	.0006	.0014	.0162	.0007	-.0007
#3	-.0006	.0041	-.0008	-.0548	-.0078	.0011	.0011	.0217	.0007	.0012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0018**	**-.0004**	**-.0000**	**.0015**	**-.0001**	**.0007**	**-.0002**	**-.0002**	**.0007**
Stddev	.0022	.0006	.0006	.0005	.0001	.0005	.0003	.0004	.0001
%RSD	125.3	155.1	1204.	35.16	143.6	62.56	189.1	160.4	9.170
#1	-.0006	-.0004	.0000	.0018	.0000	.0013	.0001	-.0004	.0008
#2	.0020	.0002	.0005	.0009	-.0001	.0004	-.0005	-.0006	.0007
#3	.0039	-.0009	-.0007	.0018	-.0002	.0005	-.0001	.0002	.0007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4480.5**	**33446.**	**3993.0**
Stddev	50.3	295.	22.5
%RSD	1.1225	.88307	.56423
#1	4520.6	33771.	4016.8
#2	4497.0	33194.	3990.2
#3	4424.1	33374.	3972.0

Sample Name: L1848760-14,T Acquired: 12/5/2018 18:40:36 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006**	**.0701**	**-.0022**	**.0011**	**.0073**	**.0001**	**-.0016**	**1.304**	**-.0000**	**.0003**
Stddev	.0009	.0179	.0006	.0009	.0005	.0001	.0015	.001	.0000	.0002
%RSD	142.3	25.54	28.55	78.77	6.306	88.38	91.54	.1091	250.6	71.31
#1	.0004	.0768	-.0020	.0019	.0075	.0000	-.0022	1.306	-.0000	.0006
#2	.0016	.0498	-.0029	.0002	.0068	.0001	.0001	1.304	-.0000	.0002
#3	-.0001	.0836	-.0017	.0013	.0076	.0001	-.0027	1.303	.0000	.0002

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0016**	**.0098**	**.0569**	**.1496**	**.2982**	**.0044**	**.0008**	**2.602**	**.0011**	**.0006**
Stddev	.0004	.0002	.0046	.0595	.0022	.0001	.0002	.020	.0004	.0026
%RSD	27.32	1.656	8.166	39.78	.7321	3.149	28.55	.7498	39.49	439.1
#1	.0017	.0100	.0564	.1906	.3005	.0044	.0010	2.624	.0013	.0028
#2	.0019	.0098	.0526	.0814	.2977	.0045	.0009	2.594	.0012	.0011
#3	.0011	.0097	.0618	.1770	.2962	.0043	.0005	2.587	.0006	-.0022

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0035**	**.5624**	**.0041**	**.0050**	**.0105**	**-.0015**	**.0000**	**.0051**
Stddev	.0015	.0009	.0063	.0009	.0001	.0021	.0007	.0005	.0001
%RSD	794.4	26.03	1.120	21.20	1.609	19.92	48.21	1221.	1.419
#1	.0019	.0025	.5558	.0051	.0051	.0101	-.0009	.0004	.0051
#2	-.0004	.0042	.5628	.0033	.0049	.0087	-.0022	.0002	.0050
#3	-.0009	.0038	.5684	.0039	.0050	.0128	-.0013	-.0005	.0052

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4444.8**	**33445.**	**4043.0**
Stddev	34.5	139.	24.7
%RSD	.77701	.41606	.61019
#1	4456.1	33408.	4015.7
#2	4472.2	33328.	4049.7
#3	4406.0	33599.	4063.7

Sample Name: L1848760-15,T Acquired: 12/5/2018 18:45:15 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0010**	**.0703**	**-.0022**	**.0003**	**.0066**	**.0000**	**-.0009**	**1.451**	**-.0000**	**.0001**
Stddev	.0005	.0021	.0003	.0004	.0002	.0001	.0007	.012	.0000	.0001
%RSD	46.80	2.939	11.88	113.2	3.263	69450.	77.58	.8088	212.5	74.13
#1	.0015	.0715	-.0022	.0008	.0065	-.0002	-.0009	1.464	-.0000	.0001
#2	.0007	.0679	-.0025	.0001	.0068	.0001	-.0002	1.446	-.0000	.0002
#3	.0007	.0714	-.0020	.0001	.0063	.0001	-.0017	1.442	.0000	.0000

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0077**	**.0095**	**.0817**	**.1291**	**.2952**	**.0031**	**.0005**	**2.571**	**.0028**	**-.0003**
Stddev	.0008	.0004	.0027	.0357	.0065	.0006	.0002	.012	.0001	.0019
%RSD	10.78	4.331	3.248	27.67	2.199	17.79	44.12	.4593	2.197	618.4
#1	.0077	.0092	.0846	.0882	.2986	.0025	.0004	2.581	.0027	-.0010
#2	.0069	.0099	.0810	.1454	.2877	.0034	.0003	2.558	.0028	.0018
#3	.0086	.0093	.0794	.1538	.2993	.0035	.0007	2.574	.0027	-.0018

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006**	**.0044**	**.6452**	**.0036**	**.0054**	**.0132**	**.0006**	**-.0002**	**.0065**
Stddev	.0022	.0011	.0048	.0002	.0003	.0017	.0003	.0003	.0001
%RSD	378.8	25.93	.7454	5.053	5.254	12.72	45.17	156.3	1.147
#1	-.0019	.0034	.6432	.0036	.0057	.0150	.0007	-.0001	.0064
#2	.0014	.0042	.6417	.0034	.0053	.0128	.0003	.0001	.0065
#3	.0022	.0056	.6507	.0038	.0051	.0117	.0008	-.0006	.0066

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4435.2**	**33249.**	**4024.0**
Stddev	34.2	251.	25.6
%RSD	.77060	.75348	.63498
#1	4453.4	33484.	4023.2
#2	4456.3	32986.	4049.9
#3	4395.7	33276.	3998.8

Sample Name: L1848760-16,T Acquired: 12/5/2018 18:49:54 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**.0958**	**-.0019**	**.0006**	**.0106**	**.0001**	**-.0019**	**2.209**	**-.0000**	**.0005**
Stddev	.0006	.0142	.0017	.0002	.0001	.0001	.0019	.028	.0000	.0001
%RSD	149.8	14.82	93.06	32.88	1.025	75.23	97.34	1.258	762.6	10.18
#1	.0011	.0992	-.0001	.0005	.0105	.0002	.0000	2.181	.0000	.0005
#2	-.0002	.1081	-.0035	.0004	.0106	.0000	-.0021	2.236	.0000	.0006
#3	.0003	.0803	-.0020	.0008	.0107	.0001	-.0037	2.209	-.0000	.0005

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0103**	**.0088**	**.1642**	**.1251**	**.5026**	**.0114**	**.0002**	**1.795**	**.0111**	**-.0004**
Stddev	.0011	.0004	.0011	.0363	.0014	.0008	.0002	.011	.0001	.0010
%RSD	10.17	4.714	.6869	29.04	.2842	6.749	121.7	.6007	.7037	269.8
#1	.0109	.0085	.1650	.1120	.5009	.0118	.0004	1.797	.0112	-.0015
#2	.0091	.0093	.1629	.1662	.5033	.0119	-.0001	1.804	.0111	-.0001
#3	.0109	.0087	.1646	.0971	.5035	.0105	.0003	1.783	.0112	.0005

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0019**	**.6036**	**.0073**	**.0088**	**.0082**	**-.0012**	**.0002**	**.0082**
Stddev	.0015	.0043	.0061	.0005	.0002	.0006	.0013	.0007	.0001
%RSD	571.2	227.7	1.018	6.402	2.255	7.614	106.4	397.6	.9401
#1	-.0015	.0022	.6012	.0068	.0086	.0089	.0001	.0001	.0082
#2	.0010	.0060	.5991	.0073	.0090	.0080	-.0013	-.0005	.0083
#3	.0013	-.0026	.6106	.0077	.0089	.0077	-.0025	.0010	.0083

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4444.1**	**33067.**	**3981.3**
Stddev	22.7	43.	21.2
%RSD	.51096	.12942	.53235
#1	4450.5	33065.	3986.2
#2	4462.9	33025.	3958.0
#3	4418.9	33111.	3999.6

Sample Name: L1848760-17,T Acquired: 12/5/2018 18:54:30 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**.1021**	**-.0011**	**.0161**	**.0340**	**-.0001**	**-.0021**	**1.582**	**-.0000**	**.0001**
Stddev	.0010	.0081	.0005	.0003	.0005	.0002	.0009	.012	.0000	.0002
%RSD	202.5	7.904	50.14	1.708	1.540	154.1	43.31	.7687	78.04	143.0
#1	.0009	.1006	-.0005	.0160	.0339	-.0003	-.0027	1.590	-.0000	.0004
#2	-.0007	.1108	-.0011	.0160	.0346	.0000	-.0011	1.568	-.0000	-.0000
#3	.0013	.0948	-.0015	.0165	.0336	-.0000	-.0026	1.588	-.0001	.0001

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0085**	**.0103**	**.0861**	**.1715**	**.3125**	**.0173**	**.0008**	**2.592**	**.0027**	**-.0008**
Stddev	.0006	.0004	.0041	.0246	.0069	.0002	.0002	.021	.0003	.0015
%RSD	6.588	4.091	4.743	14.37	2.207	1.392	25.98	.8090	9.398	203.0
#1	.0086	.0102	.0875	.1963	.3058	.0175	.0006	2.598	.0030	-.0022
#2	.0079	.0100	.0893	.1711	.3196	.0173	.0008	2.609	.0027	.0009
#3	.0090	.0108	.0815	.1470	.3121	.0170	.0009	2.569	.0024	-.0009

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0006**	**.0030**	**.6098**	**.0026**	**.0052**	**.0012**	**-.0014**	**.0005**	**.0083**
Stddev	.0021	.0028	.0073	.0008	.0001	.0008	.0007	.0004	.0000
%RSD	336.4	93.52	1.205	30.12	1.342	67.22	47.68	77.39	.5718
#1	-.0000	.0034	.6055	.0021	.0052	.0006	-.0007	.0001	.0082
#2	.0011	.0055	.6057	.0035	.0051	.0022	-.0019	.0008	.0083
#3	-.0029	-.0000	.6183	.0023	.0052	.0009	-.0016	.0008	.0083

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4447.2**	**33145.**	**4007.5**
Stddev	25.1	217.	23.2
%RSD	.56512	.65450	.58002
#1	4466.3	32973.	4027.0
#2	4456.6	33389.	3981.8
#3	4418.8	33074.	4013.7

Sample Name: L1848760-18,T Acquired: 12/5/2018 18:59:08 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0009**	**.1165**	**-.0012**	**.0108**	**.0281**	**-.0000**	**-.0015**	**2.364**	**-.0000**	**.0007**
Stddev	.0004	.0038	.0005	.0003	.0002	.0000	.0004	.006	.0000	.0001
%RSD	47.32	3.228	40.75	2.692	.8585	278.9	24.51	.2560	450.5	16.38
#1	.0004	.1134	-.0008	.0108	.0281	-.0000	-.0014	2.371	-.0000	.0007
#2	.0012	.1207	-.0011	.0111	.0284	-.0000	-.0012	2.363	.0000	.0007
#3	.0011	.1155	-.0017	.0105	.0279	.0000	-.0019	2.359	-.0000	.0005

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0186**	**.0088**	**.2134**	**.1553**	**.5264**	**.0157**	**.0014**	**1.819**	**.0162**	**.0000**
Stddev	.0003	.0004	.0043	.0484	.0040	.0005	.0001	.014	.0005	.0003
%RSD	1.457	4.747	1.999	31.15	.7686	3.107	9.598	.7820	3.344	873.9
#1	.0185	.0083	.2139	.1755	.5273	.0163	.0013	1.803	.0158	.0002
#2	.0190	.0088	.2174	.1001	.5220	.0155	.0014	1.830	.0161	.0002
#3	.0184	.0091	.2089	.1903	.5300	.0153	.0016	1.823	.0168	-.0003

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008**	**.0022**	**.5866**	**.0087**	**.0088**	**.0017**	**-.0015**	**.0003**	**.0101**
Stddev	.0007	.0006	.0050	.0007	.0002	.0004	.0005	.0003	.0001
%RSD	82.19	28.23	.8530	7.961	1.798	25.34	37.63	107.2	1.009
#1	.0001	.0017	.5847	.0092	.0088	.0020	-.0011	.0004	.0100
#2	.0011	.0020	.5828	.0079	.0089	.0012	-.0011	.0005	.0101
#3	.0013	.0029	.5922	.0089	.0086	.0018	-.0021	-.0001	.0102

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4440.0**	**33046.**	**4002.2**
Stddev	26.0	27.	19.9
%RSD	.58486	.08205	.49700
#1	4465.0	33069.	3997.2
#2	4441.8	33016.	4024.2
#3	4413.2	33053.	3985.4

Sample Name: L1848760-19,T Acquired: 12/5/2018 19:03:43 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0013**	**.1257**	**-.0025**	**.0076**	**.0328**	**.0000**	**-.0006**	**1.508**	**-.0000**	**.0001**
Stddev	.0016	.0009	.0005	.0009	.0002	.0002	.0007	.011	.0000	.0002
%RSD	125.1	.7387	20.11	12.15	.5780	310.4	116.2	.7394	81.70	153.4
#1	.0024	.1255	-.0029	.0081	.0330	-.0000	-.0003	1.503	-.0000	-.0001
#2	-.0006	.1249	-.0025	.0065	.0328	-.0000	-.0013	1.501	-.0000	.0002
#3	.0021	.1267	-.0020	.0082	.0327	.0002	-.0001	1.521	-.0000	.0003

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0026**	**.0099**	**.0694**	**.1511**	**.3148**	**.0088**	**.0001**	**2.558**	**.0012**	**-.0002**
Stddev	.0007	.0007	.0008	.0559	.0006	.0001	.0002	.016	.0003	.0012
%RSD	28.85	7.441	1.086	36.98	.1833	1.545	380.9	.6157	21.74	485.5
#1	.0024	.0093	.0702	.1189	.3155	.0089	.0000	2.560	.0013	.0004
#2	.0034	.0097	.0687	.2156	.3148	.0086	-.0001	2.541	.0014	-.0016
#3	.0019	.0107	.0692	.1188	.3143	.0088	.0003	2.573	.0009	.0005

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0031**	**.5752**	**.0040**	**.0055**	**.0011**	**-.0006**	**-.0003**	**.0100**
Stddev	.0023	.0009	.0045	.0001	.0002	.0000	.0015	.0006	.0002
%RSD	678.8	30.15	.7759	3.469	3.535	3.372	244.5	208.1	1.718
#1	-.0017	.0040	.5712	.0038	.0056	.0011	.0010	-.0009	.0099
#2	.0029	.0030	.5745	.0041	.0053	.0011	-.0018	.0001	.0100
#3	-.0001	.0022	.5800	.0040	.0057	.0012	-.0010	.0000	.0102

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4451.9**	**33191.**	**3996.9**
Stddev	16.1	78.	11.4
%RSD	.36145	.23586	.28577
#1	4456.4	33239.	3991.6
#2	4465.2	33234.	3989.1
#3	4434.0	33101.	4010.0

Sample Name: L1848760-20,T Acquired: 12/5/2018 19:08:17 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0007**	**.0712**	**-.0017**	**.0025**	**.0150**	**.0001**	**-.0001**	**2.350**	**-.0000**	**-.0001**
Stddev	.0008	.0130	.0005	.0002	.0002	.0001	.0009	.009	.0000	.0001
%RSD	118.1	18.29	31.99	9.901	1.050	113.3	615.7	.4025	67.39	168.7
#1	-.0000	.0771	-.0012	.0023	.0151	.0000	-.0009	2.351	-.0000	.0000
#2	.0016	.0563	-.0016	.0027	.0149	.0001	.0008	2.340	-.0000	-.0000
#3	.0005	.0803	-.0022	.0024	.0152	.0002	-.0004	2.359	-.0000	-.0002

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0033**	**.0083**	**.1424**	**.1302**	**.5332**	**.0282**	**-.0003**	**1.873**	**.0023**	**-.0001**
Stddev	.0011	.0005	.0039	.0251	.0090	.0001	.0003	.018	.0002	.0002
%RSD	34.32	6.325	2.730	19.27	1.691	.2281	77.39	.9871	9.095	267.9
#1	.0021	.0079	.1419	.1371	.5316	.0282	-.0001	1.887	.0020	-.0004
#2	.0043	.0082	.1465	.1510	.5252	.0281	-.0006	1.852	.0024	.0001
#3	.0035	.0089	.1387	.1023	.5430	.0282	-.0003	1.879	.0024	-.0001

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0003**	**.0042**	**.6116**	**.0080**	**.0090**	**.0015**	**-.0003**	**-.0003**	**.0098**
Stddev	.0013	.0021	.0037	.0002	.0003	.0002	.0005	.0004	.0002
%RSD	398.6	50.72	.5994	3.112	2.966	14.98	161.2	158.6	2.335
#1	-.0018	.0023	.6107	.0078	.0087	.0013	-.0006	.0002	.0097
#2	.0006	.0038	.6085	.0078	.0092	.0014	.0003	-.0005	.0096
#3	.0002	.0065	.6157	.0083	.0091	.0017	-.0006	-.0005	.0101

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4458.7**	**33139.**	**3994.4**
Stddev	32.8	99.	37.7
%RSD	.73542	.29857	.94279
#1	4477.6	33025.	3993.8
#2	4477.7	33198.	4032.3
#3	4420.9	33195.	3957.0

Sample Name: CCV Acquired: 12/5/2018 19:50:03 Type: QC
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4976**	**.5243**	**.4932**	**.5171**	**.5138**	**.4848**	**-.0043**	**.4614**	**.4903**	**.4911**
Stddev	.0012	.0093	.0048	.0022	.0010	.0009	.0005	.0131	.0031	.0030
%RSD	.2463	1.768	.9641	.4194	.1878	.1823	10.87	2.838	.6413	.6034
#1	.4962	.5277	.4897	.5147	.5147	.4852	-.0042	.4751	.4879	.4885
#2	.4985	.5138	.4913	.5177	.5139	.4838	-.0039	.4601	.4890	.4904
#3	.4982	.5314	.4986	.5189	.5128	.4854	-.0048	.4490	.4938	.4943
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4842**	**.4997**	**.5160**	**4.925**	**.4970**	**.5019**	**.4760**	**10.52**	**.4895**	**.4911**
Stddev	.0013	.0013	.0054	.048	.0014	.0010	.0038	.06	.0034	.0029
%RSD	.2680	.2538	1.055	.9680	.2815	.1981	.7881	.5619	.7033	.5906
#1	.4853	.4988	.5216	4.965	.4959	.5030	.4728	10.52	.4868	.4893
#2	.4828	.4991	.5157	4.872	.4986	.5010	.4750	10.45	.4883	.4896
#3	.4846	.5012	.5107	4.937	.4966	.5017	.4801	10.57	.4934	.4945
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5060**	**.5417**	**5.041**	**.4806**	**.4725**	**.4707**	**.4956**	**.4978**	**.4929**
Stddev	.0016	.0033	.029	.0040	.0012	.0006	.0028	.0012	.0030
%RSD	.3116	.6096	.5853	.8356	.2582	.1348	.5711	.2383	.6124
#1	.5044	.5379	5.012	.4777	.4738	.4701	.4926	.4970	.4906
#2	.5061	.5434	5.039	.4789	.4723	.4706	.4960	.4992	.4918
#3	.5075	.5438	5.071	.4852	.4714	.4714	.4983	.4972	.4964
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4530.3**	**33424.**	**4028.4**
Stddev	29.9	83.	9.2
%RSD	.66001	.24980	.22786
#1	4559.8	33328.	4020.7
#2	4531.2	33476.	4026.0
#3	4500.0	33469.	4038.6

Sample Name: CCB Acquired: 12/5/2018 19:54:29 Type: QC
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**.0106**	**.0007**	**-.0001**	**.0001**	**-.0000**	**-.0003**	**.0024**	**.0000**	**.0002**
Stddev	.0000	.0164	.0005	.0003	.0003	.0001	.0005	.0059	.0000	.0003
%RSD	2.688	155.5	75.57	250.3	352.1	2169.	172.2	249.4	65.56	168.0
#1	.0005	.0054	.0002	.0002	-.0002	-.0001	-.0002	.0014	.0001	-.0002
#2	.0005	-.0027	.0012	-.0001	.0004	.0001	.0002	-.0030	.0000	.0003
#3	.0005	.0289	.0007	-.0005	.0000	-.0000	-.0009	.0087	.0001	.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0002**	**.0053**	**-.0002**	**.0086**	**-.0024**	**.0004**	**.0016**	**.0399**	**.0007**	**.0000**
Stddev	.0014	.0003	.0041	.0144	.0063	.0001	.0002	.0257	.0001	.0006
%RSD	657.5	5.037	1870.	168.2	259.8	25.41	11.69	64.42	12.92	1472.
#1	.0011	.0050	.0045	-.0065	-.0005	.0005	.0017	.0149	.0006	.0003
#2	-.0001	.0052	-.0031	.0222	-.0095	.0004	.0017	.0386	.0007	.0005
#3	-.0016	.0056	-.0020	.0100	.0027	.0003	.0014	.0663	.0006	-.0007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0012**	**.0010**	**-.0022**	**.0010**	**-.0001**	**.0003**	**.0002**	**-.0000**	**.0008**
Stddev	.0016	.0030	.0008	.0006	.0002	.0007	.0007	.0004	.0001
%RSD	134.3	307.9	34.74	63.01	149.1	218.4	431.2	6435.	8.801
#1	-.0006	.0023	-.0014	.0017	-.0002	.0011	.0009	-.0000	.0007
#2	.0018	-.0025	-.0029	.0008	.0001	-.0002	-.0002	-.0004	.0008
#3	.0024	.0030	-.0023	.0005	-.0003	.0000	-.0003	.0005	.0008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4522.0**	**33639.**	**4033.8**
Stddev	31.1	98.	8.5
%RSD	.68691	.29027	.21047
#1	4531.7	33679.	4027.0
#2	4547.0	33711.	4031.2
#3	4487.2	33528.	4043.3

Sample Name: WG1185933-1,S Acquired: 12/5/2018 20:01:27 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**-.0061**	**.0013**	**-.0020**	**-.0001**	**-.0000**	**-.0030**	**.0051**	**-.0001**	**.0004**
Stddev	.0006	.0125	.0012	.0003	.0004	.0003	.0018	.0122	.0000	.0002
%RSD	174.0	203.6	91.33	14.14	322.1	1070.	59.59	239.9	25.48	62.82
#1	.0006	-.0203	.0009	-.0021	-.0006	-.0003	-.0026	-.0040	-.0001	.0006
#2	-.0003	-.0014	.0027	-.0017	-.0000	.0000	-.0049	.0190	-.0001	.0001
#3	.0008	.0033	.0004	-.0022	.0002	.0002	-.0014	.0002	-.0001	.0004

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0005**	**.0046**	**-.0063**	**.0103**	**-.0020**	**.0001**	**-.0001**	**.0050**	**.0005**	**-.0005**
Stddev	.0010	.0003	.0024	.0225	.0036	.0006	.0001	.0060	.0003	.0006
%RSD	182.7	5.730	38.43	219.6	174.0	491.4	132.3	119.7	59.97	101.6
#1	-.0017	.0045	-.0035	.0229	.0007	.0005	.0000	.0064	.0008	-.0005
#2	-.0000	.0044	-.0074	-.0158	-.0007	.0003	-.0001	.0103	.0002	-.0000
#3	.0001	.0049	-.0080	.0236	-.0061	-.0005	-.0002	-.0016	.0005	-.0011

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**-.0016**	**-.0004**	**-.0006**	**-.0001**	**.0004**	**.0022**	**.0002**	**-.0012**
Stddev	.0006	.0023	.0008	.0005	.0002	.0005	.0019	.0005	.0001
%RSD	205.5	137.4	215.3	76.72	176.0	146.2	87.40	317.7	9.782
#1	.0003	.0007	-.0002	-.0008	-.0001	-.0002	.0044	.0001	-.0011
#2	.0008	-.0018	-.0012	-.0010	.0001	.0006	.0016	.0007	-.0012
#3	-.0003	-.0038	.0003	-.0001	-.0003	.0007	.0006	-.0003	-.0013

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4622.7**	**34238.**	**4105.6**
Stddev	18.7	89.	24.4
%RSD	.40418	.26016	.59420
#1	4635.1	34332.	4091.1
#2	4631.8	34155.	4133.7
#3	4601.2	34227.	4091.9

Sample Name: WG1185933-2,S Acquired: 12/5/2018 20:06:05 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0497**	**1.981**	**.1158**	**1.069**	**1.987**	**.0468**	**-.0032**	**9.528**	**.0514**	**.4810**
Stddev	.0019	.007	.0022	.006	.005	.0002	.0007	.031	.0002	.0025
%RSD	3.859	.3764	1.881	.5425	.2627	.3621	22.03	.3237	.4251	.5221
#1	.0483	1.978	.1175	1.066	1.982	.0467	-.0039	9.511	.0513	.4803
#2	.0519	1.975	.1134	1.064	1.992	.0470	-.0030	9.509	.0512	.4789
#3	.0490	1.989	.1166	1.075	1.988	.0467	-.0026	9.563	.0516	.4838

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1916**	**.2398**	**1.060**	**9.662**	**9.994**	**.4751**	**.9275**	**10.35**	**.4832**	**.4607**
Stddev	.0009	.0013	.003	.054	.050	.0016	.0063	.06	.0027	.0017
%RSD	.4702	.5506	.2928	.5558	.4978	.3271	.6803	.6010	.5545	.3619
#1	.1920	.2383	1.061	9.603	10.02	.4737	.9227	10.31	.4822	.4602
#2	.1906	.2403	1.057	9.675	10.03	.4747	.9252	10.42	.4812	.4593
#3	.1923	.2407	1.063	9.708	9.937	.4768	.9347	10.33	.4862	.4625

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4545**	**.1280**	**.6415**	**.9132**	**.9514**	**.9689**	**.1139**	**.4889**	**.5181**
Stddev	.0156	.0044	.0038	.0065	.0025	.0015	.0001	.0001	.0030
%RSD	3.440	3.457	.5864	.7120	.2611	.1541	.0962	.0149	.5728
#1	.4387	.1229	.6400	.9083	.9486	.9679	.1138	.4888	.5172
#2	.4548	.1312	.6386	.9107	.9525	.9706	.1140	.4890	.5157
#3	.4699	.1298	.6457	.9206	.9532	.9683	.1140	.4889	.5214

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4556.7**	**33515.**	**4112.7**
Stddev	13.2	60.	17.6
%RSD	.28944	.17988	.42820
#1	4558.4	33576.	4098.6
#2	4569.0	33515.	4107.0
#3	4542.8	33455.	4132.4

Sample Name: L1848771-01,S Acquired: 12/5/2018 20:10:30 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.3208**	**.0101**	**.2154**	**.1579**	**.0001**	**.0001**	**106.4**	**-.0000**	**.0007**
Stddev	.0007	.0081	.0007	.0016	.0002	.0001	.0013	.1	.0000	.0001
%RSD	391.0	2.532	7.102	.7253	.1128	42.18	1153.	.0722	512.8	14.89
#1	-.0004	.3169	.0093	.2144	.1577	.0002	.0014	106.4	-.0000	.0007
#2	.0010	.3302	.0106	.2146	.1581	.0001	-.0011	106.4	-.0000	.0008
#3	-.0000	.3154	.0105	.2172	.1578	.0001	.0001	106.5	.0000	.0006

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0019**	**.0056**	**2.271**	**4.500**	**21.00**	**1.922**	**.0075**	**36.34**	**.0016**	**.0002**
Stddev	.0006	.0008	.010	.053	.05	.002	.0011	.02	.0001	.0017
%RSD	31.19	14.26	.4342	1.172	.2435	.1235	14.14	.0605	7.978	705.7
#1	.0014	.0064	2.267	4.504	20.96	1.920	.0087	36.35	.0017	.0003
#2	.0017	.0048	2.264	4.550	21.06	1.921	.0073	36.32	.0014	-.0015
#3	.0025	.0055	2.282	4.445	20.98	1.925	.0066	36.36	.0016	.0019

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0213**	**.0016**	**7.200**	**.0084**	**.4928**	**.0246**	**.0047**	**.0008**	**.0013**
Stddev	.0042	.0008	.046	.0014	.0009	.0012	.0005	.0002	.0001
%RSD	19.65	48.39	.6380	16.17	.1839	4.743	11.31	22.30	8.284
#1	.0260	.0009	7.170	.0097	.4932	.0253	.0052	.0006	.0011
#2	.0202	.0024	7.176	.0086	.4918	.0233	.0041	.0007	.0013
#3	.0178	.0014	7.253	.0070	.4935	.0253	.0049	.0010	.0013

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4432.7**	**32841.**	**4064.0**
Stddev	25.5	153.	1.1
%RSD	.57575	.46623	.02720
#1	4449.5	32760.	4063.4
#2	4445.3	33018.	4065.3
#3	4403.3	32746.	4063.3

Sample Name: WG1185933-3,S Acquired: 12/5/2018 20:15:02 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0510**	**2.309**	**.1304**	**1.316**	**2.180**	**.0481**	**-.0029**	**119.8**	**.0513**	**.4780**
Stddev	.0023	.005	.0027	.009	.007	.0001	.0015	.1	.0003	.0029
%RSD	4.547	.2335	2.060	.6898	.3209	.2997	53.22	.0659	.6454	.6004
#1	.0528	2.309	.1282	1.309	2.186	.0480	-.0025	119.8	.0511	.4758
#2	.0518	2.314	.1296	1.313	2.180	.0482	-.0016	119.9	.0512	.4771
#3	.0484	2.304	.1334	1.327	2.172	.0481	-.0045	119.9	.0517	.4813

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1948**	**.2447**	**3.369**	**14.51**	**30.96**	**2.446**	**.9543**	**47.84**	**.4763**	**.4522**
Stddev	.0003	.0002	.006	.09	.33	.003	.0076	.14	.0028	.0037
%RSD	.1638	.0921	.1785	.6329	1.070	.1191	.7979	.2979	.5876	.8114
#1	.1944	.2449	3.368	14.60	30.65	2.444	.9475	47.93	.4743	.4500
#2	.1950	.2445	3.375	14.52	30.91	2.449	.9529	47.92	.4752	.4502
#3	.1950	.2447	3.363	14.42	31.31	2.444	.9625	47.68	.4795	.4565

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5100**	**.1323**	**8.203**	**.9243**	**1.486**	**1.014**	**.1094**	**.4994**	**.5196**
Stddev	.0037	.0005	.053	.0071	.005	.007	.0011	.0009	.0031
%RSD	.7334	.4006	.6450	.7721	.3125	.6557	1.045	.1807	.5904
#1	.5065	.1317	8.181	.9185	1.490	1.011	.1107	.4984	.5174
#2	.5095	.1327	8.165	.9221	1.486	1.009	.1086	.4999	.5184
#3	.5140	.1326	8.264	.9323	1.481	1.021	.1089	.5000	.5231

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4396.4**	**32681.**	**4115.7**
Stddev	21.2	105.	35.8
%RSD	.48166	.32187	.87018
#1	4420.0	32638.	4153.4
#2	4390.3	32604.	4111.4
#3	4378.9	32801.	4082.2

Sample Name: WG1185933-4,S Acquired: 12/5/2018 20:19:27 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0009**	**.2936**	**.0105**	**.2188**	**.1600**	**.0000**	**-.0011**	**107.7**	**.0000**	**.0009**
Stddev	.0010	.0050	.0005	.0017	.0007	.0002	.0015	.2	.0000	.0002
%RSD	112.9	1.697	4.960	.7803	.4201	342.6	131.4	.1839	143.9	25.67
#1	.0017	.2934	.0101	.2187	.1604	-.0000	-.0002	108.0	.0000	.0007
#2	-.0002	.2986	.0111	.2171	.1603	.0002	-.0028	107.6	.0000	.0011
#3	.0011	.2887	.0102	.2205	.1592	-.0001	-.0003	107.6	-.0000	.0009

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0022**	**.0064**	**2.261**	**4.550**	**21.06**	**1.943**	**.0069**	**36.71**	**.0014**	**.0008**
Stddev	.0006	.0009	.011	.057	.09	.005	.0009	.07	.0002	.0002
%RSD	29.07	13.26	.4655	1.252	.4436	.2451	13.10	.2028	13.81	20.43
#1	.0019	.0055	2.273	4.520	20.99	1.948	.0080	36.80	.0012	.0010
#2	.0029	.0066	2.253	4.615	21.03	1.940	.0067	36.65	.0016	.0009
#3	.0018	.0071	2.257	4.514	21.16	1.941	.0062	36.69	.0014	.0006

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0087**	**-.0002**	**7.228**	**.0077**	**.4998**	**.0234**	**.0052**	**.0015**	**.0012**
Stddev	.0024	.0032	.035	.0011	.0009	.0003	.0006	.0005	.0001
%RSD	27.46	1460.	.4904	14.93	.1892	1.233	10.58	36.75	8.564
#1	.0114	.0034	7.221	.0087	.5009	.0234	.0059	.0010	.0013
#2	.0078	-.0024	7.197	.0079	.4995	.0231	.0050	.0021	.0011
#3	.0069	-.0017	7.267	.0064	.4991	.0237	.0049	.0013	.0011

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4430.9**	**32676.**	**4091.9**
Stddev	27.3	103.	13.4
%RSD	.61617	.31420	.32764
#1	4438.3	32669.	4105.7
#2	4453.8	32577.	4091.2
#3	4400.7	32782.	4078.9

Sample Name: WG1185933-5,S Acquired: 12/5/2018 20:23:59 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0558**	**2.542**	**.1333**	**1.375**	**2.396**	**.0536**	**-.0030**	**113.9**	**.0527**	**.4888**
Stddev	.0011	.042	.0015	.015	.038	.0011	.0003	.6	.0007	.0068
%RSD	1.901	1.649	1.152	1.113	1.580	2.087	11.63	.5503	1.350	1.384
#1	.0570	2.590	.1347	1.392	2.432	.0545	-.0026	114.2	.0535	.4962
#2	.0555	2.523	.1335	1.371	2.399	.0539	-.0032	114.3	.0525	.4872
#3	.0549	2.513	.1317	1.362	2.357	.0524	-.0031	113.2	.0521	.4829

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2103**	**.2648**	**3.356**	**15.78**	**30.85**	**2.366**	**1.038**	**47.04**	**.4874**	**.4753**
Stddev	.0016	.0025	.030	.20	.38	.015	.014	.36	.0062	.0069
%RSD	.7463	.9294	.8862	1.280	1.218	.6265	1.302	.7617	1.272	1.453
#1	.2106	.2665	3.372	15.92	31.28	2.379	1.053	47.36	.4943	.4829
#2	.2117	.2659	3.373	15.87	30.63	2.369	1.033	47.10	.4853	.4735
#3	.2086	.2620	3.321	15.55	30.63	2.350	1.027	46.65	.4825	.4695

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4973**	**.1369**	**7.543**	**1.003**	**1.605**	**1.141**	**.1146**	**.5416**	**.5303**
Stddev	.0055	.0032	.071	.012	.019	.010	.0004	.0052	.0074
%RSD	1.113	2.346	.9434	1.192	1.195	.9033	.3260	.9597	1.388
#1	.4920	.1404	7.497	1.017	1.623	1.151	.1149	.5463	.5384
#2	.4969	.1362	7.508	.9995	1.606	1.143	.1147	.5425	.5284
#3	.5030	.1341	7.625	.9940	1.585	1.131	.1142	.5360	.5240

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4418.9**	**32609.**	**4091.5**
Stddev	24.1	233.	31.2
%RSD	.54644	.71357	.76338
#1	4428.7	32755.	4057.3
#2	4436.6	32340.	4098.5
#3	4391.4	32731.	4118.6

Sample Name: L1848771-02,S Acquired: 12/5/2018 20:28:25 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0007**	**.0126**	**.0005**	**.0171**	**.0455**	**.0000**	**.0003**	**43.73**	**.0001**	**.0008**
Stddev	.0009	.0042	.0007	.0009	.0005	.0001	.0003	.20	.0000	.0003
%RSD	128.9	33.03	165.1	5.472	1.000	204.5	91.36	.4498	70.95	31.91
#1	.0009	.0168	-.0000	.0180	.0455	-.0001	-.0000	43.91	.0001	.0006
#2	.0015	.0123	.0001	.0161	.0459	.0001	.0004	43.52	.0001	.0011
#3	-.0003	.0086	.0013	.0173	.0450	.0001	.0005	43.76	.0000	.0007

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0006**	**.0133**	**.0113**	**2.752**	**1.897**	**.0090**	**.0069**	**3.706**	**.0033**	**.0040**
Stddev	.0003	.0003	.0017	.047	.016	.0005	.0009	.031	.0001	.0021
%RSD	43.95	2.430	15.24	1.720	.8305	5.498	13.67	.8377	4.491	53.72
#1	-.0009	.0137	.0133	2.729	1.884	.0095	.0080	3.700	.0032	.0027
#2	-.0004	.0131	.0103	2.807	1.892	.0085	.0066	3.678	.0035	.0028
#3	-.0005	.0132	.0104	2.721	1.915	.0089	.0062	3.739	.0033	.0064

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0274**	**-.0022**	**4.220**	**.0092**	**.1355**	**.0029**	**.0016**	**.0005**	**.0297**
Stddev	.0045	.0019	.026	.0012	.0003	.0004	.0007	.0006	.0003
%RSD	16.29	85.50	.6119	12.80	.1866	14.10	44.59	122.1	.8529
#1	.0323	-.0008	4.202	.0105	.1353	.0029	.0023	-.0002	.0295
#2	.0261	-.0043	4.209	.0089	.1355	.0033	.0016	.0010	.0298
#3	.0236	-.0014	4.250	.0082	.1358	.0025	.0009	.0007	.0300

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4541.0**	**33823.**	**4102.5**
Stddev	14.5	80.	22.2
%RSD	.32033	.23773	.54136
#1	4553.2	33769.	4124.1
#2	4544.9	33915.	4103.7
#3	4524.9	33783.	4079.7

Sample Name: L1848771-03,S Acquired: 12/5/2018 20:33:01 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0010**	**-.0026**	**-.0005**	**.0279**	**.0282**	**.0001**	**-.0011**	**52.63**	**-.0001**	**.0002**
Stddev	.0001	.0133	.0010	.0005	.0001	.0001	.0005	.19	.0000	.0000
%RSD	12.99	517.6	198.0	1.759	.2688	119.4	47.49	.3586	57.83	6.158
#1	.0012	-.0084	.0004	.0284	.0283	.0001	-.0014	52.72	-.0001	.0002
#2	.0010	-.0120	-.0016	.0277	.0282	-.0000	-.0015	52.41	-.0001	.0002
#3	.0010	.0127	-.0004	.0275	.0283	.0001	-.0005	52.76	-.0000	.0002

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0008**	**.0059**	**-.0033**	**3.252**	**8.396**	**.0022**	**.0027**	**46.06**	**.0007**	**.0007**
Stddev	.0011	.0003	.0019	.009	.095	.0002	.0002	.11	.0001	.0010
%RSD	141.9	5.347	56.91	.2640	1.136	10.50	6.849	.2469	10.06	151.2
#1	-.0019	.0056	-.0047	3.257	8.315	.0021	.0028	45.93	.0006	.0002
#2	.0003	.0061	-.0039	3.256	8.372	.0025	.0027	46.12	.0008	.0018
#3	-.0007	.0061	-.0012	3.242	8.501	.0021	.0025	46.12	.0007	-.0000

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0089**	**-.0004**	**2.400**	**.0039**	**.1162**	**.0021**	**.0019**	**-.0001**	**-.0003**
Stddev	.0015	.0033	.011	.0006	.0004	.0002	.0012	.0007	.0001
%RSD	16.72	850.1	.4603	16.03	.3070	10.91	60.42	615.6	16.32
#1	.0106	-.0038	2.395	.0033	.1165	.0020	.0008	-.0008	-.0004
#2	.0078	-.0001	2.392	.0045	.1162	.0019	.0019	.0000	-.0003
#3	.0084	.0027	2.413	.0040	.1158	.0024	.0031	.0005	-.0003

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4469.3**	**33096.**	**4091.2**
Stddev	24.8	37.	34.9
%RSD	.55576	.11164	.85337
#1	4488.8	33093.	4122.8
#2	4477.8	33134.	4097.1
#3	4441.4	33061.	4053.8

Sample Name: L1848771-04,S Acquired: 12/5/2018 20:37:38 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008**	**-.0091**	**.0003**	**.0240**	**.0264**	**.0000**	**.0003**	**43.43**	**-.0001**	**.0025**
Stddev	.0012	.0165	.0016	.0009	.0004	.0001	.0016	.09	.0000	.0002
%RSD	146.1	180.7	506.6	3.671	1.543	212.3	480.5	.2182	35.72	7.383
#1	.0006	.0026	-.0014	.0242	.0269	-.0001	.0020	43.37	-.0001	.0024
#2	-.0003	-.0280	.0017	.0231	.0263	.0001	-.0013	43.53	-.0001	.0027
#3	.0020	-.0020	.0007	.0248	.0261	.0001	.0004	43.37	-.0001	.0024

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0010**	**.0071**	**.0600**	**5.830**	**3.423**	**.0004**	**.0023**	**6.043**	**.0011**	**.0005**
Stddev	.0006	.0003	.0008	.079	.020	.0004	.0001	.022	.0006	.0012
%RSD	54.25	4.583	1.401	1.347	.5950	101.8	5.342	.3671	53.61	223.4
#1	-.0014	.0072	.0594	5.760	3.446	.0002	.0024	6.029	.0006	-.0006
#2	-.0013	.0068	.0609	5.915	3.412	.0001	.0022	6.068	.0009	.0005
#3	-.0004	.0074	.0596	5.815	3.410	.0008	.0022	6.031	.0017	.0017

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0041**	**-.0013**	**3.174**	**.0023**	**.1665**	**.0017**	**.0020**	**-.0000**	**-.0006**
Stddev	.0008	.0015	.014	.0007	.0008	.0005	.0009	.0004	.0000
%RSD	19.64	119.6	.4326	31.12	.4618	27.67	46.74	9180.	3.737
#1	.0048	-.0024	3.163	.0021	.1670	.0017	.0018	.0004	-.0007
#2	.0043	.0005	3.169	.0018	.1669	.0021	.0030	-.0003	-.0007
#3	.0032	-.0019	3.189	.0032	.1656	.0012	.0012	-.0002	-.0006

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4541.6**	**33473.**	**4136.1**
Stddev	18.4	75.	13.2
%RSD	.40468	.22284	.31974
#1	4547.9	33546.	4123.0
#2	4555.9	33397.	4135.7
#3	4520.9	33477.	4149.5

Sample Name: WG1185933-6,S,5 Acquired: 12/5/2018 20:42:14 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**.0635**	**.0023**	**.0422**	**.0320**	**.0000**	**-.0003**	**21.10**	**-.0000**	**.0002**
Stddev	.0011	.0118	.0013	.0002	.0002	.0002	.0013	.03	.0000	.0002
%RSD	1228.	18.56	57.10	.3857	.5671	700.9	494.4	.1477	121.9	114.1
#1	-.0004	.0727	.0035	.0424	.0322	-.0002	-.0006	21.14	-.0000	.0003
#2	-.0011	.0675	.0009	.0421	.0318	.0000	.0011	21.09	.0000	-.0000
#3	.0012	.0502	.0026	.0421	.0319	.0002	-.0013	21.08	-.0001	.0001

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**.0053**	**.4598**	**.8826**	**4.370**	**.3918**	**.0013**	**7.280**	**.0007**	**.0012**
Stddev	.0003	.0003	.0076	.0241	.018	.0012	.0002	.020	.0001	.0014
%RSD	67.02	4.784	1.654	2.735	.4081	.2938	13.22	.2682	8.023	118.3
#1	.0008	.0056	.4549	.9042	4.355	.3930	.0013	7.274	.0007	.0023
#2	.0006	.0052	.4560	.8872	4.390	.3917	.0015	7.302	.0006	.0016
#3	.0001	.0052	.4686	.8565	4.366	.3907	.0012	7.264	.0007	-.0004

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0029**	**.0003**	**1.417**	**.0007**	**.0980**	**.0051**	**.0014**	**.0004**	**.0012**
Stddev	.0004	.0021	.012	.0006	.0005	.0003	.0005	.0003	.0001
%RSD	15.26	803.0	.8350	96.61	.4723	5.784	33.46	73.12	7.913
#1	.0029	.0025	1.407	.0009	.0985	.0048	.0016	.0006	.0011
#2	.0025	-.0017	1.413	.0011	.0976	.0052	.0017	.0005	.0011
#3	.0034	-.0001	1.430	-.0001	.0979	.0054	.0009	.0001	.0013

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4490.9**	**33341.**	**4066.8**
Stddev	22.9	137.	33.2
%RSD	.50966	.41147	.81599
#1	4506.5	33487.	4093.3
#2	4501.6	33214.	4029.6
#3	4464.6	33324.	4077.6

Sample Name: CCV Acquired: 12/5/2018 20:46:50 Type: QC
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5020**	**.5230**	**.4965**	**.5173**	**.5122**	**.4849**	**-.0037**	**.4698**	**.4913**	**.4919**
Stddev	.0030	.0093	.0017	.0036	.0009	.0007	.0018	.0116	.0029	.0032
%RSD	.6034	1.769	.3398	.6914	.1793	.1378	48.25	2.461	.5926	.6445
#1	.4990	.5129	.4952	.5167	.5126	.4857	-.0057	.4825	.4896	.4908
#2	.5019	.5250	.4959	.5141	.5112	.4844	-.0022	.4667	.4896	.4895
#3	.5051	.5311	.4984	.5212	.5130	.4847	-.0033	.4600	.4946	.4955
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4873**	**.5010**	**.5151**	**4.967**	**.4972**	**.5022**	**.4796**	**10.45**	**.4905**	**.4924**
Stddev	.0032	.0010	.0041	.044	.0025	.0019	.0035	.06	.0025	.0036
%RSD	.6468	.1897	.7969	.8855	.5013	.3859	.7267	.6014	.5097	.7308
#1	.4890	.5000	.5198	4.983	.4950	.5015	.4767	10.43	.4889	.4899
#2	.4836	.5009	.5121	5.001	.4967	.5008	.4786	10.40	.4892	.4908
#3	.4891	.5019	.5135	4.917	.4999	.5044	.4835	10.52	.4934	.4966
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5097**	**.5360**	**5.048**	**.4841**	**.4749**	**.4749**	**.4954**	**.4994**	**.4919**
Stddev	.0040	.0048	.024	.0037	.0015	.0007	.0029	.0007	.0034
%RSD	.7872	.8957	.4664	.7555	.3118	.1570	.5824	.1373	.6905
#1	.5065	.5355	5.037	.4827	.4764	.4755	.4940	.4995	.4900
#2	.5085	.5315	5.033	.4814	.4734	.4741	.4934	.4987	.4900
#3	.5142	.5410	5.075	.4883	.4751	.4751	.4987	.5000	.4959
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4527.2**	**33617.**	**4068.1**
Stddev	26.3	326.	8.9
%RSD	.58042	.97006	.21996
#1	4544.1	33418.	4064.4
#2	4540.7	33993.	4061.5
#3	4497.0	33440.	4078.3

Sample Name: CCB Acquired: 12/5/2018 20:51:17 Type: QC
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0009**	**.0102**	**.0013**	**-.0006**	**.0004**	**-.0000**	**-.0001**	**-.0008**	**.0000**	**.0001**
Stddev	.0008	.0195	.0011	.0005	.0003	.0000	.0010	.0122	.0000	.0002
%RSD	91.61	191.3	83.60	85.27	65.80	235.0	1929.	1542.	216.2	214.5
#1	.0006	.0110	.0016	-.0001	.0007	-.0000	.0007	.0079	.0000	.0003
#2	.0017	-.0097	.0001	-.0007	.0004	.0000	-.0012	-.0148	-.0000	.0002
#3	.0002	.0293	.0022	-.0012	.0002	-.0001	.0003	.0045	-.0000	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0005**	**.0049**	**-.0026**	**-.0324**	**-.0036**	**.0003**	**.0025**	**.0133**	**.0006**	**-.0001**
Stddev	.0011	.0001	.0032	.0724	.0022	.0006	.0006	.0057	.0002	.0004
%RSD	235.5	1.921	121.6	223.6	61.86	219.1	24.14	42.70	30.58	516.4
#1	-.0012	.0051	.0010	-.0583	-.0040	.0005	.0030	.0068	.0009	-.0005
#2	-.0010	.0049	-.0040	-.0882	-.0012	-.0004	.0025	.0159	.0005	.0001
#3	.0008	.0049	-.0048	.0494	-.0055	.0007	.0018	.0173	.0005	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0019**	**.0023**	**-.0020**	**.0025**	**-.0002**	**.0006**	**-.0003**	**.0001**	**.0004**
Stddev	.0015	.0018	.0002	.0005	.0004	.0002	.0010	.0006	.0000
%RSD	82.28	78.43	10.56	17.89	166.3	33.93	325.2	798.3	5.150
#1	.0010	.0039	-.0018	.0030	-.0003	.0008	.0002	-.0005	.0004
#2	.0010	.0004	-.0022	.0021	-.0006	.0006	.0003	.0007	.0004
#3	.0037	.0025	-.0019	.0025	.0002	.0004	-.0015	.0000	.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4510.0**	**33509.**	**4016.8**
Stddev	34.8	230.	23.1
%RSD	.77252	.68668	.57549
#1	4522.4	33445.	3990.6
#2	4537.0	33318.	4025.2
#3	4470.7	33764.	4034.5

Sample Name: L1848771-05,S Acquired: 12/5/2018 20:55:57 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**-.0015**	**.0011**	**.0177**	**.0288**	**.0001**	**-.0023**	**15.11**	**.0000**	**.0003**
Stddev	.0005	.0068	.0013	.0001	.0004	.0001	.0029	.07	.0001	.0001
%RSD	295.4	449.1	124.6	.7103	1.548	64.24	121.8	.4681	1963.	42.12
#1	-.0003	.0055	-.0002	.0176	.0287	.0001	-.0008	15.11	-.0000	.0003
#2	.0002	-.0082	.0009	.0176	.0284	.0002	-.0006	15.03	-.0000	.0002
#3	.0006	-.0019	.0025	.0178	.0292	.0000	-.0056	15.18	.0001	.0005

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**.0062**	**-.0023**	**2.805**	**2.291**	**.1956**	**.0008**	**93.33**	**.0008**	**-.0004**
Stddev	.0007	.0006	.0018	.035	.020	.0009	.0002	.31	.0003	.0012
%RSD	1881.	9.062	76.55	1.248	.8700	.4771	31.08	.3319	43.42	337.3
#1	-.0006	.0064	-.0032	2.766	2.308	.1948	.0009	93.01	.0004	.0002
#2	-.0003	.0067	-.0003	2.834	2.269	.1953	.0005	93.34	.0009	-.0018
#3	.0008	.0056	-.0035	2.815	2.296	.1966	.0009	93.63	.0010	.0005

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0024**	**-.0018**	**3.756**	**.0007**	**.0648**	**.0019**	**.0025**	**-.0001**	**-.0004**
Stddev	.0010	.0029	.018	.0003	.0003	.0005	.0018	.0001	.0001
%RSD	42.72	162.0	.4768	45.19	.4771	27.03	74.02	107.2	18.85
#1	.0026	-.0023	3.747	.0009	.0647	.0014	.0036	-.0001	-.0003
#2	.0013	-.0045	3.744	.0003	.0646	.0019	.0034	-.0003	-.0004
#3	.0033	.0013	3.776	.0008	.0652	.0024	.0004	-.0000	-.0004

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4491.1**	**33191.**	**4093.6**
Stddev	14.3	47.	22.7
%RSD	.31951	.14085	.55331
#1	4500.4	33225.	4073.7
#2	4498.3	33138.	4118.2
#3	4474.5	33211.	4088.9

Sample Name: L1848771-06,S Acquired: 12/5/2018 21:00:31 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006**	**-.0223**	**-.0009**	**.0101**	**.0203**	**.0001**	**-.0005**	**84.88**	**-.0001**	**.0005**
Stddev	.0014	.0016	.0010	.0005	.0001	.0001	.0003	.23	.0000	.0002
%RSD	219.0	7.178	104.8	4.805	.5835	153.3	52.42	.2766	53.91	42.56
#1	-.0002	-.0208	-.0010	.0106	.0204	-.0000	-.0002	84.69	-.0001	.0007
#2	.0022	-.0222	.0001	.0099	.0203	.0003	-.0006	84.79	-.0001	.0004
#3	-.0001	-.0240	-.0019	.0097	.0202	.0000	-.0007	85.14	-.0000	.0003

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**.0069**	**.0053**	**2.128**	**13.22**	**.0399**	**.0003**	**23.70**	**.0007**	**-.0000**
Stddev	.0005	.0003	.0020	.043	.12	.0004	.0001	.10	.0002	.0017
%RSD	1233.	4.014	36.86	2.032	.8940	1.091	27.29	.4054	26.45	27530.
#1	-.0005	.0072	.0035	2.127	13.12	.0397	.0004	23.61	.0008	-.0007
#2	-.0001	.0070	.0051	2.171	13.20	.0396	.0002	23.68	.0007	.0020
#3	.0005	.0066	.0074	2.085	13.35	.0404	.0004	23.80	.0005	-.0013

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0009**	**.0004**	**5.830**	**.0002**	**.2186**	**.0030**	**.0002**	**.0002**	**-.0005**
Stddev	.0015	.0022	.031	.0004	.0009	.0009	.0010	.0004	.0001
%RSD	167.1	598.6	.5354	208.9	.3964	32.00	610.5	232.2	11.21
#1	-.0008	.0010	5.824	-.0002	.2177	.0026	.0004	-.0002	-.0005
#2	.0019	.0022	5.803	.0004	.2188	.0022	.0011	.0006	-.0005
#3	.0017	-.0021	5.864	.0003	.2194	.0040	-.0010	.0001	-.0004

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4451.2**	**33022.**	**4096.0**
Stddev	18.3	270.	21.0
%RSD	.41196	.81867	.51322
#1	4456.4	32711.	4116.0
#2	4466.5	33155.	4097.9
#3	4430.9	33199.	4074.1

Sample Name: L1848771-07,S Acquired: 12/5/2018 21:05:07 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0007**	**.0037**	**.0016**	**-.0011**	**-.0003**	**-.0001**	**-.0011**	**.0089**	**-.0001**	**.0003**
Stddev	.0011	.0185	.0012	.0004	.0003	.0001	.0014	.0050	.0000	.0000
%RSD	156.4	500.0	77.52	40.09	109.8	83.59	130.3	56.25	72.23	13.36
#1	.0018	-.0032	.0027	-.0014	-.0004	-.0002	-.0006	.0111	-.0000	.0003
#2	-.0004	.0247	.0018	-.0013	.0001	-.0000	.0000	.0032	-.0000	.0002
#3	.0006	-.0104	.0003	-.0006	-.0005	-.0001	-.0027	.0124	-.0001	.0002

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0004**	**.0048**	**-.0047**	**-.0192**	**-.0012**	**.0003**	**-.0001**	**.0294**	**.0004**	**-.0003**
Stddev	.0005	.0010	.0029	.0072	.0013	.0002	.0002	.0090	.0005	.0008
%RSD	139.6	20.72	63.15	37.21	111.1	83.53	408.7	30.81	127.3	225.5
#1	.0001	.0041	-.0014	-.0260	-.0008	.0005	-.0002	.0190	-.0000	-.0007
#2	-.0002	.0044	-.0055	-.0117	-.0001	.0003	.0002	.0333	.0003	.0005
#3	-.0009	.0059	-.0070	-.0199	-.0026	.0000	-.0002	.0358	.0010	-.0009

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0009**	**.0004**	**.0039**	**.0004**	**.0003**	**.0002**	**.0016**	**.0001**	**-.0007**
Stddev	.0003	.0020	.0002	.0010	.0003	.0004	.0006	.0002	.0001
%RSD	33.30	452.7	5.385	250.1	106.7	167.5	36.53	174.7	20.03
#1	.0010	.0024	.0037	.0014	-.0001	.0001	.0019	.0001	-.0005
#2	.0006	-.0015	.0041	-.0005	.0005	-.0001	.0019	-.0001	-.0007
#3	.0012	.0004	.0038	.0002	.0005	.0006	.0009	.0004	-.0008

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4611.1**	**34226.**	**4138.0**
Stddev	20.0	111.	5.4
%RSD	.43330	.32534	.13071
#1	4615.6	34354.	4132.5
#2	4628.4	34177.	4143.3
#3	4589.2	34148.	4138.3

Sample Name: L1848771-08,S Acquired: 12/5/2018 21:09:45 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0013**	**.0017**	**.0003**	**.0179**	**.0255**	**-.0001**	**-.0009**	**14.13**	**-.0000**	**.0001**
Stddev	.0011	.0100	.0016	.0002	.0002	.0001	.0003	.06	.0000	.0002
%RSD	79.96	582.1	613.3	1.165	.6819	120.1	27.34	.4043	20.69	128.9
#1	.0014	.0053	.0010	.0181	.0254	.0000	-.0009	14.20	-.0000	.0002
#2	.0024	.0095	.0014	.0179	.0257	-.0001	-.0007	14.08	-.0000	.0002
#3	.0003	-.0096	-.0016	.0177	.0254	-.0003	-.0012	14.12	-.0000	-.0001

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0008**	**.0056**	**-.0002**	**2.568**	**2.174**	**.1771**	**.0001**	**83.72**	**.0006**	**.0006**
Stddev	.0007	.0004	.0035	.068	.011	.0012	.0002	.51	.0005	.0017
%RSD	90.42	7.271	1545.	2.659	.5021	.7008	193.3	.6064	71.82	295.5
#1	-.0008	.0054	-.0029	2.527	2.185	.1783	-.0001	84.31	.0001	.0004
#2	-.0000	.0061	-.0015	2.530	2.174	.1758	.0002	83.47	.0009	.0024
#3	-.0014	.0054	.0038	2.647	2.163	.1772	.0002	83.38	.0009	-.0011

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008**	**.0006**	**3.657**	**.0001**	**.0581**	**.0007**	**.0021**	**.0002**	**-.0006**
Stddev	.0018	.0034	.015	.0003	.0002	.0001	.0016	.0006	.0001
%RSD	234.1	531.8	.4153	285.9	.3988	17.99	73.34	325.1	16.74
#1	.0028	.0013	3.646	.0002	.0578	.0006	.0006	.0002	-.0007
#2	.0002	-.0031	3.652	.0003	.0582	.0008	.0021	-.0004	-.0006
#3	-.0007	.0037	3.674	-.0002	.0582	.0006	.0038	.0007	-.0005

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4510.6**	**33202.**	**4104.2**
Stddev	30.6	129.	25.6
%RSD	.67917	.38841	.62277
#1	4539.3	33338.	4079.1
#2	4514.0	33081.	4103.2
#3	4478.4	33185.	4130.2

Sample Name: L1848771-10,S Acquired: 12/5/2018 21:14:21 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.2010**	**.0011**	**.0066**	**.0101**	**.0001**	**-.0020**	**9.081**	**-.0001**	**.0002**
Stddev	.0018	.0083	.0005	.0008	.0002	.0001	.0021	.018	.0000	.0002
%RSD	576.3	4.130	45.98	12.82	1.602	98.88	102.0	.1941	38.01	91.62
#1	.0021	.2068	.0005	.0074	.0101	-.0000	-.0034	9.070	-.0000	.0004
#2	-.0014	.1915	.0015	.0067	.0099	.0001	.0003	9.073	-.0001	.0001
#3	.0002	.2047	.0014	.0057	.0103	.0001	-.0030	9.102	-.0001	.0000

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**.0071**	**.1711**	**3.103**	**1.256**	**.0166**	**.0001**	**3.548**	**.0011**	**-.0007**
Stddev	.0007	.0001	.0030	.004	.008	.0007	.0002	.021	.0003	.0005
%RSD	154.9	2.100	1.736	.1317	.6618	4.152	270.5	.5990	24.13	73.83
#1	.0003	.0072	.1741	3.099	1.254	.0170	.0003	3.543	.0010	-.0003
#2	-.0001	.0072	.1710	3.103	1.265	.0171	.0000	3.571	.0014	-.0012
#3	.0013	.0069	.1682	3.107	1.248	.0158	-.0001	3.529	.0009	-.0005

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0020**	**-.0019**	**2.562**	**.0002**	**.0329**	**.0085**	**.0009**	**.0003**	**.0042**
Stddev	.0018	.0013	.021	.0005	.0003	.0003	.0015	.0006	.0001
%RSD	90.92	67.31	.8225	295.9	.9648	2.966	170.0	204.6	3.182
#1	-.0025	-.0030	2.547	.0006	.0332	.0082	.0025	.0001	.0041
#2	.0000	-.0005	2.554	.0003	.0330	.0086	.0003	-.0002	.0042
#3	-.0036	-.0021	2.587	-.0004	.0326	.0086	-.0002	.0010	.0044

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4609.4**	**34067.**	**4104.3**
Stddev	19.2	83.	17.8
%RSD	.41719	.24268	.43291
#1	4627.1	34081.	4099.7
#2	4612.0	33978.	4089.4
#3	4589.0	34142.	4124.0

Sample Name: L1848771-11,S Acquired: 12/5/2018 21:18:57 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0009**	**.0380**	**.0011**	**.0087**	**.0256**	**-.0000**	**-.0015**	**16.39**	**-.0000**	**.0003**
Stddev	.0009	.0142	.0011	.0002	.0002	.0000	.0012	.04	.0000	.0001
%RSD	99.12	37.41	99.53	2.357	.7733	77.30	77.42	.2225	75.54	39.96
#1	.0007	.0411	-.0001	.0089	.0254	-.0000	-.0029	16.35	-.0000	.0004
#2	.0001	.0504	.0015	.0085	.0255	-.0000	-.0009	16.43	-.0001	.0002
#3	.0019	.0225	.0019	.0088	.0258	-.0000	-.0008	16.39	-.0001	.0004

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0003**	**.0060**	**.2188**	**2.474**	**3.756**	**.1191**	**.0002**	**56.47**	**.0011**	**.0010**
Stddev	.0010	.0002	.0016	.033	.025	.0001	.0003	.16	.0001	.0009
%RSD	389.9	3.915	.7112	1.351	.6543	.0704	123.4	.2766	8.546	97.32
#1	.0009	.0060	.2201	2.443	3.773	.1191	.0003	56.30	.0010	-.0000
#2	-.0008	.0063	.2192	2.509	3.767	.1190	.0004	56.61	.0012	.0019
#3	-.0008	.0058	.2170	2.471	3.728	.1192	-.0001	56.50	.0011	.0011

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0019**	**-.0007**	**3.130**	**.0002**	**.0834**	**.0012**	**.0028**	**.0001**	**.0035**
Stddev	.0021	.0019	.016	.0007	.0005	.0005	.0006	.0002	.0001
%RSD	113.4	275.9	.5073	377.7	.5914	38.20	19.64	235.8	3.045
#1	.0003	.0000	3.126	-.0004	.0833	.0008	.0030	.0002	.0035
#2	.0010	.0008	3.117	.0010	.0839	.0017	.0022	-.0001	.0034
#3	.0043	-.0029	3.148	-.0001	.0830	.0012	.0033	.0002	.0036

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4530.7**	**33298.**	**4104.0**
Stddev	27.7	47.	26.4
%RSD	.61147	.14209	.64306
#1	4536.8	33314.	4089.4
#2	4554.9	33245.	4088.2
#3	4500.5	33336.	4134.5

Sample Name: L1848771-12,S Acquired: 12/5/2018 21:23:34 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0552**	**.0016**	**.0111**	**.0120**	**.0000**	**-.0007**	**13.76**	**-.0001**	**.0001**
Stddev	.0012	.0037	.0009	.0005	.0003	.0001	.0011	.04	.0000	.0001
%RSD	750.8	6.692	54.61	4.922	2.613	396.5	161.4	.3157	40.76	98.34
#1	.0011	.0588	.0010	.0112	.0117	-.0001	-.0010	13.71	-.0001	.0001
#2	-.0012	.0515	.0013	.0105	.0123	.0000	-.0016	13.77	-.0001	-.0000
#3	.0006	.0554	.0027	.0115	.0121	.0002	.0005	13.80	-.0001	.0001

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0058**	**.1450**	**2.553**	**3.027**	**.0143**	**-.0001**	**37.09**	**.0010**	**-.0013**
Stddev	.0002	.0010	.0026	.066	.036	.0005	.0002	.14	.0004	.0006
%RSD	314.9	17.21	1.817	2.596	1.203	3.739	183.7	.3881	38.35	42.23
#1	-.0001	.0061	.1425	2.621	3.068	.0145	-.0001	37.23	.0007	-.0015
#2	.0001	.0047	.1478	2.550	3.000	.0137	-.0003	36.94	.0008	-.0018
#3	.0003	.0066	.1447	2.489	3.013	.0147	.0001	37.08	.0014	-.0007

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0008**	**-.0008**	**3.100**	**-.0000**	**.0569**	**.0014**	**.0012**	**-.0000**	**.0043**
Stddev	.0016	.0019	.020	.0006	.0001	.0003	.0009	.0005	.0001
%RSD	211.7	236.1	.6496	6409.	.1598	18.89	81.87	1554.	1.814
#1	.0007	-.0020	3.083	.0002	.0570	.0016	.0021	-.0004	.0043
#2	-.0025	-.0018	3.095	.0005	.0570	.0015	.0011	.0006	.0042
#3	-.0004	.0014	3.123	-.0007	.0569	.0011	.0002	-.0003	.0042

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4533.5**	**33432.**	**4100.3**
Stddev	29.9	53.	40.7
%RSD	.65992	.15816	.99293
#1	4560.4	33487.	4053.9
#2	4539.0	33428.	4117.0
#3	4501.3	33382.	4130.0

Sample Name: CCV Acquired: 12/5/2018 21:37:04 Type: QC
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5001**	**.5123**	**.4934**	**.5150**	**.5096**	**.4818**	**-.0050**	**.4644**	**.4886**	**.4890**
Stddev	.0009	.0084	.0023	.0031	.0021	.0014	.0007	.0061	.0029	.0028
%RSD	.1714	1.632	.4611	.5971	.4066	.2808	14.65	1.316	.5953	.5760
#1	.5003	.5218	.4950	.5136	.5118	.4833	-.0058	.4639	.4869	.4874
#2	.5009	.5061	.4908	.5129	.5076	.4807	-.0047	.4585	.4869	.4873
#3	.4992	.5089	.4943	.5185	.5095	.4815	-.0045	.4707	.4919	.4923
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4862**	**.4989**	**.5098**	**4.840**	**.4936**	**.4981**	**.4753**	**10.34**	**.4869**	**.4901**
Stddev	.0030	.0012	.0035	.081	.0075	.0020	.0035	.05	.0033	.0034
%RSD	.6075	.2467	.6845	1.680	1.516	.3974	.7422	.4814	.6682	.7009
#1	.4856	.4995	.5134	4.785	.4998	.4997	.4732	10.39	.4854	.4871
#2	.4836	.4975	.5097	4.801	.4853	.4959	.4733	10.30	.4847	.4894
#3	.4894	.4998	.5064	4.933	.4956	.4988	.4794	10.32	.4907	.4938
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5054**	**.5383**	**5.014**	**.4800**	**.4732**	**.4731**	**.4925**	**.4962**	**.4898**
Stddev	.0025	.0012	.023	.0040	.0007	.0006	.0021	.0006	.0031
%RSD	.4958	.2287	.4522	.8323	.1380	.1183	.4330	.1267	.6241
#1	.5036	.5376	5.000	.4781	.4740	.4729	.4922	.4968	.4888
#2	.5044	.5375	5.001	.4773	.4727	.4726	.4905	.4955	.4874
#3	.5083	.5397	5.040	.4846	.4729	.4737	.4947	.4964	.4932
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4534.3**	**33806.**	**4076.4**
Stddev	18.8	14.	31.6
%RSD	.41445	.04102	.77445
#1	4546.5	33821.	4044.9
#2	4543.7	33803.	4108.0
#3	4512.6	33794.	4076.2

Sample Name: CCB Acquired: 12/5/2018 21:41:29 Type: QC
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0010**	**.0056**	**-.0011**	**.0000**	**.0003**	**.0001**	**-.0002**	**.0076**	**.0000**	**.0002**
Stddev	.0023	.0095	.0018	.0001	.0003	.0001	.0014	.0061	.0000	.0001
%RSD	234.8	170.4	166.9	558.9	86.63	66.10	717.7	80.65	46.64	62.23
#1	.0037	-.0006	.0010	.0001	.0006	.0000	.0003	.0115	.0001	.0004
#2	-.0005	.0165	-.0025	-.0001	.0001	.0001	.0009	.0107	.0000	.0002
#3	-.0003	.0008	-.0018	.0002	.0003	.0002	-.0017	.0005	.0000	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0053**	**-.0044**	**.0066**	**-.0042**	**.0008**	**.0018**	**.0249**	**.0006**	**-.0005**
Stddev	.0006	.0003	.0020	.0455	.0033	.0002	.0004	.0124	.0004	.0015
%RSD	232.4	6.174	45.95	691.3	78.80	26.50	23.74	49.82	56.48	314.9
#1	.0004	.0056	-.0066	.0572	-.0079	.0006	.0022	.0383	.0002	-.0018
#2	.0007	.0053	-.0029	-.0309	-.0018	.0010	.0018	.0138	.0009	.0012
#3	-.0004	.0049	-.0035	-.0066	-.0028	.0009	.0014	.0225	.0007	-.0009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0026**	**.0017**	**-.0021**	**.0015**	**-.0003**	**.0013**	**.0006**	**-.0000**	**.0004**
Stddev	.0021	.0011	.0007	.0007	.0003	.0007	.0013	.0002	.0001
%RSD	80.79	62.63	32.32	44.11	118.1	54.67	230.2	2771.	34.44
#1	.0008	.0030	-.0013	.0022	-.0006	.0021	-.0009	.0001	.0005
#2	.0049	.0010	-.0026	.0015	-.0003	.0010	.0009	-.0003	.0004
#3	.0022	.0013	-.0024	.0009	.0000	.0008	.0017	.0001	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4530.0**	**33683.**	**4003.6**
Stddev	28.6	88.	16.0
%RSD	.63070	.26137	.39922
#1	4535.6	33582.	4015.2
#2	4555.4	33734.	3985.4
#3	4499.1	33734.	4010.3

Sample Name: Std 0 Acquired: 12/5/2018 22:00:54 Type: Cal
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: IR Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.0013**	**.0124**	**-.0004**	**-.0002**	**-.0010**	**.0038**	**.0006**	**.0034**	**.0011**	**.0007**
Stddev	.0003	.0014	.0001	.0001	.0007	.0004	.0001	.0005	.0000	.0001
%RSD	25.76	11.10	21.39	66.85	68.06	10.13	13.93	13.82	3.317	13.13
#1	-.0016	.0129	-.0003	-.0002	-.0002	.0036	.0005	.0038	.0011	.0007
#2	-.0010	.0134	-.0005	-.0002	-.0012	.0036	.0005	.0035	.0011	.0006
#3	-.0013	.0108	-.0004	-.0000	-.0016	.0043	.0007	.0029	.0011	.0007

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.0012**	**.0076**	**.0001**	**-.0147**	**.0041**	**.0011**	**.0015**	**-.0404**	**-.0001**	**-.0015**
Stddev	.0001	.0002	.0001	.0032	.0009	.0004	.0001	.0033	.0003	.0005
%RSD	5.556	2.407	162.6	21.69	22.86	36.05	8.413	8.063	270.9	34.51
#1	-.0012	.0074	.0002	-.0182	.0044	.0015	.0014	-.0438	.0000	-.0021
#2	-.0011	.0075	.0001	-.0119	.0050	.0012	.0015	-.0401	.0001	-.0011
#3	-.0012	.0078	-.0001	-.0141	.0031	.0007	.0017	-.0373	-.0004	-.0013

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.0002**	**-.0006**	**.0023**	**.0002**	**-.0384**	**-.0012**	**-.0009**	**-.0003**	**.0025**
Stddev	.0002	.0003	.0001	.0001	.0005	.0001	.0001	.0003	.0002
%RSD	75.00	39.45	2.974	35.73	1.334	9.970	12.09	105.9	7.619
#1	-.0002	-.0005	.0024	.0003	-.0388	-.0012	-.0009	-.0002	.0025
#2	-.0004	-.0009	.0023	.0002	-.0385	-.0011	-.0010	-.0000	.0023
#3	-.0001	-.0005	.0023	.0001	-.0378	-.0014	-.0008	-.0006	.0027

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4556.0**	**33966.**	**4078.6**
Stddev	13.5	86.	13.0
%RSD	.29720	.25196	.31907
#1	4550.7	33890.	4066.5
#2	4571.4	34058.	4077.0
#3	4545.9	33950.	4092.4

Sample Name: ICAL Acquired: 12/5/2018 22:05:31 Type: Cal
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: IR Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.2437**	**.1840**	**.1221**	**.4856**	**8.727**	**5.748**	**.1962**	**.0945**	**5.820**	**1.268**
Stddev	.0010	.0017	.0001	.0018	.025	.009	.0007	.0007	.027	.005
%RSD	.4119	.9461	.0574	.3785	.2902	.1541	.3682	.7154	.4598	.4045
#1	.2426	.1821	.1221	.4847	8.756	5.757	.1959	.0937	5.807	1.266
#2	.2439	.1846	.1220	.4843	8.718	5.747	.1956	.0948	5.802	1.264
#3	.2446	.1854	.1221	.4877	8.708	5.739	.1970	.0949	5.851	1.274

Elem	Cr2677	Cu3247	Fe2599	Mg2790	Mn2576R	Mo2020	Ni2316	Pb2203	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.2078**	**.4925**	**.1721**	**.3542**	**1.175**	**1.013**	**.9670**	**.3523**	**.1356**	**.1071**
Stddev	.0005	.0004	.0009	.0014	.002	.004	.0025	.0018	.0014	.0004
%RSD	.2448	.0891	.4984	.4002	.1885	.3693	.2540	.5111	1.040	.3713
#1	.2079	.4920	.1730	.3552	1.176	1.011	.9664	.3520	.1342	.1075
#2	.2083	.4928	.1719	.3526	1.176	1.011	.9649	.3507	.1356	.1071
#3	.2073	.4927	.1713	.3550	1.172	1.017	.9697	.3542	.1370	.1068

Elem	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.1545**	**.2661**	**6.558**	**.4822**	**.1876**	**.3955**	**1.882**
Stddev	.0002	.0013	.019	.0007	.0008	.0005	.008
%RSD	.1343	.4838	.2871	.1482	.4239	.1312	.4194
#1	.1545	.2652	6.579	.4825	.1869	.3959	1.880
#2	.1543	.2656	6.550	.4827	.1874	.3958	1.876
#3	.1547	.2676	6.545	.4814	.1885	.3949	1.891

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4493.9**	**33523.**	**4040.1**
Stddev	12.5	68.	12.4
%RSD	.27815	.20311	.30656
#1	4492.2	33541.	4036.0
#2	4507.1	33448.	4030.2
#3	4482.3	33581.	4054.0

Sample Name: Std Al Fe K Na Si Acquired: 12/5/2018 22:09:54 Type: Cal
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: IR Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Al3961	Fe2599	K_7664	Na5895	Si2124
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**4.062**	**4.236**	**1.945**	**7.339**	**1.927**
Stddev	.008	.005	.003	.008	.013
%RSD	.1994	.1092	.1400	.1108	.6714
#1	4.066	4.236	1.945	7.332	1.919
#2	4.053	4.232	1.943	7.338	1.920
#3	4.067	4.241	1.948	7.348	1.942

Int. Std.	Y_2243	Y_3710
Units	Cts/S	Cts/S
Avg	**4495.7**	**4044.2**
Stddev	31.8	24.8
%RSD	.70760	.61434
#1	4518.8	4069.9
#2	4508.8	4020.3
#3	4459.4	4042.5

Sample Name: Std Ca Mg Si Acquired: 12/5/2018 22:14:30 Type: Cal
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: IR Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ca3158	Mg2790	Si2124
Units	Cts/S	Cts/S	Cts/S
Avg	**.8920**	**3.612**	**.9291**
Stddev	.0005	.016	.0047
%RSD	.0540	.4304	.5006
#1	.8915	3.616	.9269
#2	.8924	3.595	.9258
#3	.8923	3.625	.9344

Int. Std.	Y_2243	Y_3710
Units	Cts/S	Cts/S
Avg	**4534.8**	**3989.3**
Stddev	18.4	13.4
%RSD	.40568	.33690
#1	4549.6	3986.7
#2	4540.6	4003.9
#3	4514.2	3977.4

Sample Name: ICV Acquired: 12/5/2018 22:19:07 Type: QC
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4876**	**.5241**	**.4923**	**.4973**	**.4887**	**.4747**	**-.0028**	**.4793**	**.4850**	**.4828**
Stddev	.0019	.0123	.0026	.0035	.0013	.0018	.0007	.0089	.0030	.0033
%RSD	.3836	2.348	.5352	.7054	.2753	.3887	26.23	1.848	.6236	.6890
#1	.4877	.5111	.4925	.4963	.4900	.4768	-.0032	.4795	.4835	.4815
#2	.4893	.5355	.4896	.4943	.4889	.4741	-.0033	.4704	.4830	.4803
#3	.4856	.5258	.4949	.5011	.4873	.4733	-.0020	.4881	.4885	.4866
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4867**	**.4809**	**.4976**	**4.837**	**.4818**	**.4962**	**.4760**	**9.781**	**.4820**	**.4983**
Stddev	.0015	.0009	.0054	.068	.0070	.0018	.0034	.030	.0031	.0033
%RSD	.3100	.1803	1.083	1.401	1.458	.3588	.7244	.3035	.6474	.6574
#1	.4875	.4816	.5012	4.911	.4780	.4979	.4741	9.792	.4804	.4977
#2	.4850	.4811	.5002	4.821	.4899	.4962	.4739	9.803	.4800	.4953
#3	.4877	.4799	.4914	4.778	.4774	.4944	.4800	9.747	.4856	.5018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4995**	**.4978**	**4.960**	**.4798**	**.4699**	**.4756**	**.4848**	**.4949**	**.4787**
Stddev	.0024	.0045	.035	.0041	.0013	.0004	.0011	.0009	.0032
%RSD	.4896	.9114	.7164	.8474	.2872	.0877	.2285	.1871	.6712
#1	.4999	.4975	4.947	.4764	.4712	.4759	.4838	.4948	.4769
#2	.4968	.4935	4.932	.4786	.4701	.4751	.4847	.4941	.4768
#3	.5017	.5025	5.000	.4843	.4685	.4758	.4860	.4959	.4824
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4544.0**	**33742.**	**4089.7**
Stddev	27.5	50.	21.1
%RSD	.60498	.14783	.51536
#1	4558.5	33690.	4076.1
#2	4561.2	33789.	4079.1
#3	4512.3	33748.	4114.0

Sample Name: ICB Acquired: 12/5/2018 22:23:34 Type: QC
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0003**	**.0030**	**-.0016**	**-.0001**	**.0000**	**.0001**	**.0019**	**.0183**	**.0002**	**-.0001**
Stddev	.0003	.0198	.0009	.0003	.0001	.0001	.0009	.0046	.0000	.0002
%RSD	73.12	651.0	57.02	236.0	277.3	56.43	48.51	25.15	13.87	247.4
#1	-.0006	.0200	-.0012	.0002	-.0001	.0001	.0025	.0161	.0001	.0002
#2	-.0001	-.0187	-.0026	-.0004	.0001	.0002	.0009	.0235	.0002	-.0002
#3	-.0003	.0079	-.0010	-.0001	.0001	.0001	.0025	.0152	.0002	-.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0013**	**.0007**	**.0077**	**-.0416**	**.0005**	**.0004**	**.0019**	**-.0052**	**.0007**	**.0015**
Stddev	.0004	.0006	.0023	.0391	.0047	.0002	.0006	.0107	.0002	.0009
%RSD	31.67	92.74	30.04	94.08	1024.	63.24	32.79	206.3	32.70	59.08
#1	.0017	.0001	.0070	-.0527	-.0030	.0005	.0026	-.0134	.0006	.0015
#2	.0009	.0013	.0102	-.0739	-.0014	.0005	.0018	.0069	.0005	.0006
#3	.0011	.0007	.0058	.0019	.0058	.0001	.0014	-.0090	.0010	.0024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0017**	**.0002**	**.0040**	**.0021**	**-.0000**	**.0006**	**-.0024**	**-.0002**	**.0013**
Stddev	.0015	.0004	.0008	.0005	.0003	.0004	.0012	.0002	.0001
%RSD	86.19	182.5	18.78	23.64	1153.	59.93	51.19	95.03	6.082
#1	.0016	.0003	.0047	.0027	.0003	.0008	-.0012	-.0004	.0014
#2	.0032	-.0002	.0032	.0017	-.0003	.0008	-.0023	-.0000	.0012
#3	.0003	.0007	.0041	.0020	-.0002	.0002	-.0037	-.0001	.0013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4549.1**	**33687.**	**4007.6**
Stddev	32.9	288.	14.3
%RSD	.72357	.85464	.35801
#1	4570.0	33721.	4005.8
#2	4566.2	33956.	3994.2
#3	4511.2	33384.	4022.7

Sample Name: WG1186031-1,T Acquired: 12/5/2018 23:41:07 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0165**	**-.0002**	**-.0006**	**-.0003**	**.0000**	**-.0006**	**.0171**	**.0000**	**-.0000**
Stddev	.0004	.0136	.0012	.0012	.0002	.0001	.0008	.0048	.0000	.0000
%RSD	230.4	82.52	529.4	190.8	54.34	4241.	132.4	28.22	121.3	159.9
#1	.0002	.0013	.0010	.0002	-.0005	.0001	-.0011	.0126	.0000	.0000
#2	.0006	.0206	-.0004	-.0020	-.0004	.0001	-.0010	.0166	-.0000	-.0001
#3	-.0003	.0276	-.0013	-.0001	-.0001	-.0002	.0003	.0222	.0001	-.0001

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0010**	**.0003**	**.0093**	**.0081**	**.0073**	**-.0003**	**-.0005**	**.0300**	**.0003**	**.0011**
Stddev	.0005	.0005	.0023	.0748	.0031	.0002	.0001	.0258	.0002	.0011
%RSD	56.39	167.8	24.62	917.4	42.36	66.91	24.17	86.29	66.32	102.2
#1	.0011	.0009	.0077	-.0145	.0094	-.0001	-.0003	.0069	.0001	.0011
#2	.0004	.0002	.0083	.0916	.0086	-.0005	-.0005	.0579	.0004	-.0000
#3	.0015	-.0001	.0119	-.0527	.0037	-.0002	-.0006	.0251	.0003	.0023

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0015**	**-.0002**	**.0042**	**.0010**	**-.0000**	**.0001**	**-.0012**	**.0002**	**-.0003**
Stddev	.0016	.0002	.0008	.0009	.0005	.0003	.0009	.0004	.0001
%RSD	106.8	107.6	19.69	88.27	1284.	192.5	78.89	270.2	24.79
#1	.0023	-.0002	.0050	.0009	-.0003	.0005	-.0009	-.0001	-.0002
#2	.0027	-.0005	.0033	.0020	.0005	-.0001	-.0022	.0007	-.0004
#3	-.0003	-.0000	.0043	.0002	-.0003	.0001	-.0004	-.0001	-.0003

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4557.4**	**34032.**	**4078.8**
Stddev	31.6	76.	21.9
%RSD	.69361	.22259	.53666
#1	4573.4	34000.	4072.0
#2	4577.8	33978.	4103.2
#3	4520.9	34119.	4061.1

Sample Name: WG1186031-2,T,2 Acquired: 12/5/2018 23:45:47 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1821**	**19.69**	**.4794**	**.6009**	**1.475**	**.6632**	**-.0106**	**14.95**	**.7278**	**.6113**
Stddev	.0009	.04	.0192	.0220	.003	.0018	.0009	.04	.0254	.0220
%RSD	.5147	.2204	4.002	3.666	.2070	.2680	8.692	.2486	3.490	3.597
#1	.1810	19.74	.4597	.5794	1.478	.6651	-.0114	14.91	.7037	.5899
#2	.1828	19.65	.4804	.5999	1.472	.6617	-.0107	14.99	.7255	.6102
#3	.1824	19.68	.4980	.6235	1.475	.6627	-.0096	14.96	.7543	.6339

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4358**	**.6087**	**43.83**	**5.908**	**6.608**	**1.071**	**.6194**	**4.893**	**.5252**	**.7504**
Stddev	.0009	.0007	.10	.067	.022	.003	.0222	.005	.0184	.0258
%RSD	.1973	.1204	.2306	1.140	.3297	.2720	3.587	.1012	3.511	3.433
#1	.4364	.6079	43.94	5.886	6.611	1.074	.5981	4.897	.5076	.7249
#2	.4361	.6093	43.79	5.854	6.585	1.072	.6178	4.888	.5236	.7498
#3	.4348	.6088	43.76	5.983	6.628	1.068	.6424	4.894	.5444	.7764

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3667**	**.2677**	**4.259**	**.4597**	**.3073**	**1.028**	**.8236**	**.5508**	**.7098**
Stddev	.0132	.0115	.166	.0159	.0004	.003	.0300	.0003	.0246
%RSD	3.591	4.286	3.901	3.469	.1247	.2861	3.644	.0457	3.473
#1	.3544	.2560	4.077	.4446	.3074	1.026	.7936	.5510	.6865
#2	.3651	.2682	4.300	.4583	.3069	1.026	.8236	.5509	.7072
#3	.3806	.2790	4.401	.4764	.3076	1.031	.8537	.5505	.7356

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4608.1**	**34283.**	**4201.4**
Stddev	22.7	168.	16.7
%RSD	.49234	.49107	.39791
#1	4621.1	34160.	4182.1
#2	4621.2	34214.	4212.2
#3	4581.9	34475.	4209.8

Sample Name: L1849060-03,T,2 Acquired: 12/5/2018 23:50:10 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0904**	**47.43**	**.0870**	**.1331**	**1.502**	**.0018**	**-.0830**	**216.9**	**.0665**	**.0721**
Stddev	.0007	.17	.0031	.0010	.006	.0002	.0018	.6	.0006	.0007
%RSD	.8199	.3605	3.547	.7161	.3804	12.59	2.200	.2829	.9169	.9831
#1	.0912	47.60	.0900	.1329	1.507	.0017	-.0851	217.6	.0663	.0719
#2	.0901	47.43	.0838	.1323	1.502	.0020	-.0821	216.8	.0661	.0714
#3	.0898	47.25	.0872	.1342	1.496	.0016	-.0818	216.5	.0672	.0728

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.218**	**17.46**	**254.0**	**4.198**	**34.28**	**2.051**	**.1441**	**1.039**	**.9815**	**8.670**
Stddev	.003	.32	1.0	.057	.18	.010	.0011	.002	.0093	.068
%RSD	.2262	1.814	.3777	1.355	.5196	.4756	.7908	.1855	.9473	.7803
#1	1.216	17.68	255.1	4.239	34.49	2.063	.1436	1.039	.9788	8.626
#2	1.217	17.10	253.8	4.133	34.18	2.047	.1434	1.040	.9738	8.635
#3	1.221	17.61	253.2	4.222	34.18	2.045	.1455	1.036	.9918	8.748

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1124**	**.0065**	**6.636**	**.7186**	**.3999**	**.9176**	**-.0014**	**.2445**	**11.34**
Stddev	.0019	.0015	.202	.0058	.0016	.0099	.0001	.0008	.09
%RSD	1.697	23.21	3.039	.8038	.4093	1.082	8.852	.3329	.8179
#1	.1111	.0050	6.725	.7165	.4017	.9064	-.0013	.2443	11.28
#2	.1146	.0080	6.405	.7141	.3996	.9254	-.0016	.2439	11.29
#3	.1114	.0064	6.778	.7251	.3984	.9209	-.0014	.2455	11.45

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4520.2**	**33929.**	**4375.3**
Stddev	26.8	168.	32.0
%RSD	.59259	.49653	.73026
#1	4541.0	33806.	4338.4
#2	4529.8	34121.	4394.5
#3	4490.0	33859.	4392.9

Sample Name: WG1186031-3,T,2 Acquired: 12/5/2018 23:54:46 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4043**	**51.26**	**.1872**	**1.025**	**2.827**	**.0469**	**-.0555**	**187.2**	**.1062**	**.5087**
Stddev	.0023	.28	.0026	.008	.014	.0001	.0011	.6	.0009	.0037
%RSD	.5789	.5505	1.391	.8011	.5019	.2740	1.960	.3091	.8223	.7314
#1	.4069	51.54	.1894	1.022	2.841	.0470	-.0555	187.8	.1059	.5066
#2	.4026	50.98	.1843	1.019	2.813	.0469	-.0544	186.8	.1055	.5065
#3	.4032	51.25	.1879	1.034	2.826	.0467	-.0566	186.9	.1072	.5130

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.325**	**12.72**	**221.4**	**12.89**	**42.20**	**2.351**	**.9824**	**10.45**	**1.634**	**7.604**
Stddev	.008	.03	1.0	.07	.15	.011	.0088	.07	.014	.070
%RSD	.3543	.2630	.4621	.5322	.3620	.4813	.8994	.6397	.8592	.9234
#1	2.334	12.76	222.5	12.97	42.19	2.360	.9776	10.49	1.629	7.581
#2	2.319	12.69	220.5	12.85	42.04	2.338	.9769	10.38	1.623	7.549
#3	2.321	12.71	221.3	12.85	42.35	2.353	.9926	10.49	1.650	7.683

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5438**	**.1101**	**7.154**	**1.389**	**1.349**	**1.817**	**.0932**	**.7008**	**14.92**
Stddev	.0047	.0010	.081	.013	.005	.006	.0011	.0033	.11
%RSD	.8634	.9233	1.135	.9456	.3929	.3598	1.198	.4712	.7600
#1	.5394	.1106	7.111	1.383	1.355	1.820	.0927	.7046	14.88
#2	.5433	.1107	7.104	1.379	1.345	1.822	.0924	.6994	14.83
#3	.5487	.1089	7.248	1.404	1.347	1.810	.0945	.6984	15.05

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4489.7**	**33514.**	**4308.0**
Stddev	29.3	95.	15.5
%RSD	.65180	.28319	.35941
#1	4493.0	33405.	4305.4
#2	4517.2	33574.	4324.6
#3	4458.9	33563.	4294.0

Sample Name: WG1186031-4,T,2 Acquired: 12/5/2018 23:59:21 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3971**	**56.15**	**.1842**	**1.015**	**2.942**	**.0455**	**-.1650**	**302.9**	**.1003**	**.4971**
Stddev	.0014	.14	.0007	.006	.003	.0002	.0007	.6	.0006	.0031
%RSD	.3507	.2575	.3621	.5560	.0862	.3963	.4406	.2071	.6110	.6251
#1	.3962	56.21	.1835	1.010	2.944	.0454	-.1642	303.2	.0999	.4950
#2	.3987	56.26	.1847	1.014	2.943	.0457	-.1650	303.4	.1001	.4957
#3	.3964	55.99	.1845	1.021	2.939	.0454	-.1657	302.2	.1010	.5007

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.315**	**30.62**	**236.7**	**12.85**	**45.26**	**2.775**	**.9642**	**10.54**	**1.384**	**7.565**
Stddev	.008	.03	.4	.07	.34	.013	.0053	.06	.011	.050
%RSD	.6263	.1031	.1543	.5536	.7561	.4728	.5507	.6124	.7919	.6570
#1	1.325	30.61	237.1	12.92	45.36	2.788	.9602	10.59	1.377	7.531
#2	1.313	30.59	236.7	12.86	45.54	2.776	.9621	10.56	1.377	7.542
#3	1.309	30.65	236.4	12.78	44.87	2.761	.9702	10.46	1.396	7.622

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5509**	**.1067**	**8.284**	**1.439**	**1.329**	**1.916**	**.0863**	**.6995**	**11.21**
Stddev	.0033	.0030	.028	.008	.001	.009	.0006	.0025	.07
%RSD	.5950	2.830	.3429	.5834	.0540	.4760	.6569	.3507	.6433
#1	.5478	.1089	8.251	1.434	1.329	1.912	.0867	.7022	11.16
#2	.5505	.1078	8.304	1.434	1.328	1.926	.0857	.6986	11.19
#3	.5543	.1033	8.297	1.449	1.328	1.909	.0865	.6976	11.30

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4468.6**	**33717.**	**4378.4**
Stddev	29.1	89.	33.7
%RSD	.65018	.26489	.76900
#1	4491.5	33652.	4371.3
#2	4478.3	33681.	4348.9
#3	4435.9	33819.	4415.1

Sample Name: WG1186031-5,T,2 Acquired: 12/6/2018 0:03:54 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1345**	**46.59**	**.1936**	**1.101**	**3.270**	**.0467**	**-.0811**	**213.6**	**.1102**	**.5128**
Stddev	.0004	.15	.0012	.009	.010	.0003	.0010	1.0	.0009	.0041
%RSD	.2625	.3195	.6437	.8666	.3132	.5963	1.204	.4876	.7787	.8087
#1	.1341	46.47	.1923	1.095	3.264	.0467	-.0807	213.2	.1096	.5100
#2	.1348	46.54	.1939	1.096	3.264	.0465	-.0804	212.9	.1097	.5108
#3	.1346	46.75	.1947	1.112	3.282	.0470	-.0822	214.8	.1111	.5175

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.331**	**16.62**	**239.8**	**13.39**	**40.99**	**2.376**	**1.064**	**10.53**	**1.369**	**8.654**
Stddev	.004	.06	.7	.07	.28	.010	.008	.05	.011	.060
%RSD	.2609	.3341	.3030	.5270	.6852	.4242	.7775	.4340	.8281	.6976
#1	1.332	16.64	239.3	13.31	40.68	2.366	1.059	10.48	1.362	8.611
#2	1.334	16.67	239.4	13.40	41.06	2.377	1.060	10.54	1.364	8.627
#3	1.327	16.56	240.6	13.45	41.23	2.386	1.074	10.57	1.383	8.723

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5854**	**.1180**	**6.569**	**1.567**	**1.309**	**1.831**	**.0982**	**.7070**	**11.19**
Stddev	.0050	.0010	.041	.012	.005	.011	.0002	.0009	.10
%RSD	.8544	.8124	.6174	.7514	.3922	.5967	.1955	.1236	.8736
#1	.5828	.1172	6.537	1.559	1.306	1.820	.0984	.7068	11.12
#2	.5822	.1177	6.556	1.561	1.306	1.830	.0980	.7079	11.14
#3	.5912	.1191	6.614	1.580	1.315	1.842	.0982	.7062	11.30

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4510.4**	**33770.**	**4340.8**
Stddev	27.5	48.	24.6
%RSD	.61005	.14344	.56714
#1	4532.1	33729.	4368.1
#2	4519.5	33759.	4334.1
#3	4479.4	33823.	4320.2

Sample Name: L1849398-01,T,2 Acquired: 12/6/2018 0:08:28 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**75.52**	**.0758**	**.0159**	**.5307**	**.0032**	**.0002**	**13.70**	**.0045**	**.0479**
Stddev	.0006	.24	.0011	.0005	.0018	.0000	.0005	.03	.0001	.0006
%RSD	303.1	.3129	1.429	3.001	.3441	.4693	238.0	.1919	2.273	1.235
#1	-.0005	75.27	.0755	.0164	.5289	.0032	-.0003	13.70	.0044	.0475
#2	.0003	75.54	.0749	.0156	.5306	.0032	.0002	13.68	.0044	.0477
#3	.0007	75.74	.0770	.0156	.5325	.0031	.0007	13.73	.0046	.0486

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2166**	**.1551**	**136.4**	**3.716**	**14.11**	**4.138**	**.0048**	**.4669**	**.0693**	**1.143**
Stddev	.0008	.0006	.5	.083	.15	.017	.0003	.0131	.0020	.022
%RSD	.3823	.3632	.3652	2.219	1.030	.4086	6.064	2.804	2.834	1.936
#1	.2157	.1551	135.9	3.630	13.94	4.119	.0051	.4593	.0681	1.125
#2	.2174	.1557	136.5	3.723	14.17	4.143	.0047	.4594	.0682	1.137
#3	.2165	.1545	136.8	3.794	14.21	4.152	.0045	.4820	.0716	1.168

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0038**	**.0080**	**8.058**	**.0129**	**.0738**	**1.032**	**.0008**	**.1896**	**.7182**
Stddev	.0022	.0016	.420	.0005	.0007	.006	.0006	.0010	.0131
%RSD	58.64	20.10	5.215	4.003	1.005	.5684	76.88	.5066	1.830
#1	.0063	.0084	8.463	.0133	.0746	1.039	.0015	.1885	.7081
#2	.0022	.0062	8.086	.0131	.0737	1.030	.0007	.1901	.7135
#3	.0028	.0094	7.624	.0123	.0731	1.028	.0003	.1903	.7331

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4822.1**	**35591.**	**4450.6**
Stddev	36.5	117.	32.8
%RSD	.75791	.32775	.73678
#1	4850.8	35484.	4488.0
#2	4834.4	35574.	4436.7
#3	4780.9	35716.	4427.0

Sample Name: WG1186031-6,T,10 Acquired: 12/6/2018 0:12:59 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0176**	**9.847**	**.0188**	**.0280**	**.3047**	**.0002**	**-.0165**	**44.39**	**.0139**	**.0150**
Stddev	.0007	.028	.0015	.0006	.0007	.0001	.0020	.18	.0001	.0002
%RSD	4.046	.2832	7.912	2.258	.2307	39.46	12.16	.4044	.7917	1.140
#1	.0178	9.875	.0196	.0279	.3047	.0001	-.0152	44.59	.0138	.0152
#2	.0182	9.848	.0171	.0274	.3055	.0001	-.0155	44.35	.0139	.0149
#3	.0168	9.819	.0198	.0287	.3041	.0002	-.0188	44.24	.0140	.0149

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2559**	**3.561**	**53.51**	**.8772**	**7.556**	**.4320**	**.0299**	**.2093**	**.2082**	**1.834**
Stddev	.0004	.007	.08	.0128	.006	.0024	.0002	.0054	.0012	.012
%RSD	.1564	.2009	.1521	1.459	.0783	.5509	.6540	2.575	.5566	.6568
#1	.2562	3.555	53.61	.8825	7.560	.4345	.0298	.2034	.2073	1.824
#2	.2555	3.560	53.49	.8626	7.559	.4298	.0299	.2106	.2078	1.831
#3	.2561	3.569	53.45	.8865	7.550	.4315	.0301	.2140	.2095	1.848

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0253**	**.0002**	**1.376**	**.1498**	**.0817**	**.1881**	**-.0009**	**.0502**	**2.412**
Stddev	.0010	.0012	.056	.0008	.0004	.0018	.0005	.0006	.015
%RSD	3.994	685.4	4.080	.5260	.4675	.9669	56.10	1.249	.6321
#1	.0243	.0014	1.318	.1489	.0819	.1901	-.0004	.0509	2.399
#2	.0264	.0001	1.381	.1500	.0820	.1866	-.0014	.0499	2.408
#3	.0252	-.0010	1.430	.1504	.0813	.1876	-.0010	.0497	2.429

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4530.7**	**33633.**	**4157.0**
Stddev	22.9	128.	12.5
%RSD	.50497	.38094	.30187
#1	4546.0	33594.	4152.0
#2	4541.6	33529.	4147.6
#3	4504.4	33776.	4171.2

Sample Name: XL1801099-01,C Acquired: 12/6/2018 0:17:29 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0007**	**.0039**	**-.0007**	**.0009**	**-.0004**	**.0001**	**.0009**	**.0069**	**.0000**	**-.0004**
Stddev	.0007	.0187	.0011	.0003	.0003	.0002	.0003	.0136	.0000	.0004
%RSD	93.87	483.6	148.1	35.85	90.96	458.9	33.68	198.4	97.76	100.1
#1	-.0012	.0233	-.0012	.0013	-.0004	-.0002	.0008	-.0073	.0001	-.0007
#2	.0001	-.0139	-.0015	.0007	-.0007	.0003	.0006	.0081	.0000	-.0005
#3	-.0010	.0021	.0005	.0008	-.0000	.0001	.0012	.0198	.0000	.0000

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0003**	**.0202**	**.0166**	**-.0009**	**-.0001**	**.0001**	**-.0013**	**-.0003**	**.0010**
Stddev	.0002	.0003	.0012	.0180	.0018	.0002	.0001	.0173	.0002	.0021
%RSD	75.07	121.5	5.958	108.5	206.0	164.2	101.9	1364.	65.36	209.3
#1	.0001	.0006	.0209	.0228	-.0029	-.0001	.0002	-.0007	-.0002	.0022
#2	.0004	.0002	.0188	-.0037	.0005	-.0003	-.0000	.0157	-.0001	.0023
#3	.0001	-.0000	.0209	.0306	-.0003	.0001	.0002	-.0189	-.0005	-.0014

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0044**	**.0019**	**.0332**	**.0003**	**-.0002**	**.0004**	**-.0013**	**-.0001**	**.0000**
Stddev	.0002	.0008	.0014	.0004	.0001	.0009	.0017	.0002	.0001
%RSD	5.395	40.70	4.154	106.2	43.25	215.5	126.4	136.8	205.8
#1	.0041	.0019	.0347	.0004	-.0003	-.0002	-.0029	-.0003	.0002
#2	.0045	.0026	.0325	-.0001	-.0002	.0015	-.0015	-.0001	-.0000
#3	.0045	.0011	.0322	.0006	-.0001	-.0000	.0004	.0000	.0000

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4522.7**	**33876.**	**4023.5**
Stddev	33.9	333.	10.2
%RSD	.74942	.98259	.25266
#1	4545.8	33885.	4035.1
#2	4538.4	34204.	4019.1
#3	4483.8	33538.	4016.3

Sample Name: XL1801099-02,C Acquired: 12/6/2018 0:22:09 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment: 10

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**.0014**	**-.0009**	**.0012**	**-.0001**	**.0000**	**.0010**	**.0106**	**.0000**	**-.0000**
Stddev	.0006	.0151	.0021	.0004	.0005	.0001	.0015	.0097	.0000	.0002
%RSD	11190.	1084.	224.9	32.07	357.8	225.6	150.7	92.30	57.25	801.5
#1	-.0003	.0171	-.0027	.0013	-.0006	.0001	-.0005	.0116	.0000	.0002
#2	.0007	-.0131	-.0014	.0015	.0002	.0000	.0009	.0198	.0000	-.0001
#3	-.0004	.0002	.0014	.0007	.0000	-.0000	.0025	.0004	.0001	-.0002

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0001**	**.0134**	**.0295**	**-.0007**	**-.0000**	**-.0000**	**-.0121**	**-.0003**	**.0007**
Stddev	.0006	.0005	.0061	.0575	.0038	.0005	.0001	.0078	.0004	.0013
%RSD	298.2	369.1	45.67	194.7	541.1	1317.	640.1	64.86	126.4	187.0
#1	.0003	.0007	.0129	.0453	.0026	.0004	.0000	-.0119	-.0003	-.0005
#2	.0007	-.0003	.0075	-.0342	-.0048	.0000	-.0002	-.0200	.0001	.0020
#3	-.0004	.0001	.0197	.0775	.0000	-.0006	.0001	-.0043	-.0008	.0005

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0040**	**.0001**	**.0250**	**-.0002**	**-.0003**	**.0002**	**-.0016**	**-.0002**	**.0000**
Stddev	.0008	.0006	.0013	.0008	.0002	.0008	.0002	.0005	.0000
%RSD	19.43	472.2	5.387	308.1	82.41	357.5	11.11	304.9	78.73
#1	.0046	.0008	.0249	.0002	-.0000	-.0002	-.0017	.0004	.0000
#2	.0043	.0000	.0264	.0002	-.0004	-.0002	-.0014	-.0006	.0001
#3	.0031	-.0004	.0237	-.0011	-.0004	.0012	-.0017	-.0004	.0000

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4506.4**	**33496.**	**4013.6**
Stddev	33.4	47.	13.8
%RSD	.74010	.13946	.34280
#1	4525.3	33456.	3998.1
#2	4526.0	33548.	4024.2
#3	4467.8	33485.	4018.5

Sample Name: CCV Acquired: 12/6/2018 0:26:49 Type: QC
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4895**	**.5247**	**.4921**	**.4957**	**.4875**	**.4748**	**-.0034**	**.4797**	**.4836**	**.4807**
Stddev	.0005	.0103	.0043	.0042	.0009	.0001	.0019	.0053	.0040	.0038
%RSD	.0967	1.970	.8725	.8517	.1747	.0174	55.85	1.113	.8321	.7871
#1	.4896	.5364	.4900	.4938	.4876	.4749	-.0013	.4849	.4818	.4793
#2	.4889	.5168	.4893	.4928	.4866	.4747	-.0049	.4742	.4808	.4779
#3	.4898	.5209	.4971	.5006	.4883	.4749	-.0041	.4800	.4882	.4850
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4858**	**.4823**	**.4946**	**4.811**	**.4835**	**.4977**	**.4759**	**9.803**	**.4806**	**.4994**
Stddev	.0019	.0017	.0039	.005	.0058	.0007	.0049	.048	.0033	.0037
%RSD	.3825	.3473	.7913	.1153	1.197	.1505	1.032	.4861	.6870	.7458
#1	.4872	.4842	.4901	4.808	.4781	.4979	.4734	9.756	.4796	.4970
#2	.4865	.4810	.4971	4.808	.4896	.4983	.4727	9.851	.4778	.4974
#3	.4837	.4819	.4966	4.818	.4828	.4968	.4816	9.802	.4842	.5037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4954**	**.4926**	**4.989**	**.4796**	**.4704**	**.4757**	**.4838**	**.4957**	**.4760**
Stddev	.0036	.0022	.033	.0052	.0013	.0007	.0035	.0009	.0036
%RSD	.7304	.4463	.6608	1.086	.2862	.1480	.7174	.1800	.7666
#1	.4923	.4921	4.976	.4773	.4715	.4763	.4828	.4966	.4746
#2	.4946	.4907	4.965	.4759	.4689	.4759	.4809	.4948	.4732
#3	.4994	.4950	5.026	.4855	.4708	.4749	.4876	.4957	.4801
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4541.7**	**33726.**	**4076.3**
Stddev	28.9	200.	42.1
%RSD	.63595	.59171	1.0332
#1	4553.7	33878.	4123.3
#2	4562.7	33800.	4042.1
#3	4508.8	33500.	4063.3

Sample Name: CCB Acquired: 12/6/2018 0:31:15 Type: QC
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008**	**.0087**	**-.0001**	**.0006**	**-.0000**	**.0001**	**.0010**	**.0102**	**.0001**	**.0000**
Stddev	.0003	.0073	.0007	.0001	.0001	.0001	.0019	.0109	.0000	.0002
%RSD	32.55	83.85	520.2	15.05	1666.	173.9	199.0	106.6	19.12	869.0
#1	.0005	.0159	.0006	.0005	-.0001	.0003	.0018	.0078	.0002	-.0000
#2	.0011	.0013	-.0006	.0006	.0000	-.0000	.0022	.0221	.0002	-.0001
#3	.0008	.0088	-.0005	.0007	.0000	.0000	-.0012	.0007	.0001	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**.0001**	**.0123**	**.0143**	**-.0006**	**.0001**	**.0016**	**-.0004**	**.0006**	**.0008**
Stddev	.0003	.0001	.0050	.0072	.0018	.0002	.0004	.0207	.0001	.0011
%RSD	52.35	112.3	41.02	50.32	318.6	197.2	26.62	5103.	22.20	134.4
#1	.0004	.0002	.0181	.0105	.0006	.0000	.0021	-.0184	.0005	-.0004
#2	.0009	.0002	.0092	.0226	.0003	-.0000	.0013	.0222	.0007	.0013
#3	.0004	-.0000	.0095	.0098	-.0026	.0003	.0014	-.0050	.0007	.0015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0023**	**.0014**	**.0155**	**.0018**	**.0003**	**.0008**	**-.0012**	**.0001**	**.0016**
Stddev	.0016	.0012	.0004	.0006	.0004	.0003	.0007	.0001	.0001
%RSD	69.09	81.03	2.720	31.52	116.2	33.44	60.47	127.2	5.830
#1	.0042	.0003	.0160	.0024	-.0001	.0007	-.0016	.0002	.0016
#2	.0012	.0026	.0152	.0013	.0004	.0012	-.0004	.0002	.0017
#3	.0016	.0015	.0154	.0017	.0006	.0007	-.0016	-.0000	.0015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4542.5**	**33792.**	**4033.8**
Stddev	40.0	114.	28.1
%RSD	.88109	.33809	.69592
#1	4563.8	33788.	4056.1
#2	4567.3	33679.	4043.1
#3	4496.3	33908.	4002.3

Sample Name: L1849088-01,T Acquired: 12/6/2018 0:35:55 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0028**	**37.54**	**.0331**	**.0768**	**.2502**	**.0009**	**-.0047**	**1424.**	**.0026**	**.0346**
Stddev	.0009	.04	.0007	.0006	.0009	.0001	.0014	15.	.0001	.0005
%RSD	33.01	.0969	2.262	.8377	.3441	6.940	28.60	1.020	1.959	1.411
#1	-.0023	37.55	.0323	.0763	.2501	.0008	-.0063	1420.	.0027	.0342
#2	-.0039	37.51	.0338	.0765	.2494	.0009	-.0037	1411.	.0026	.0345
#3	-.0023	37.58	.0332	.0775	.2511	.0009	-.0042	1440.	.0026	.0351

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0676**	**.1190**	**98.14**	**8.496**	**561.2**	**3.928**	**.0036**	**3.003**	**.0615**	**.0916**
Stddev	.0005	.0006	.10	.125	3.6	.009	.0000	.020	.0009	.0011
%RSD	.7652	.4968	.1054	1.471	.6412	.2204	1.151	.6805	1.498	1.248
#1	.0671	.1193	98.22	8.627	565.2	3.933	.0036	3.011	.0605	.0904
#2	.0681	.1194	98.03	8.483	558.4	3.918	.0036	2.979	.0622	.0917
#3	.0677	.1183	98.18	8.378	559.8	3.933	.0035	3.018	.0619	.0926

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0006**	**.0064**	**10.95**	**.0009**	**1.228**	**1.249**	**-.0008**	**.1277**	**.4714**
Stddev	.0013	.0016	.20	.0002	.001	.002	.0011	.0005	.0052
%RSD	237.6	24.63	1.841	16.90	.0743	.1383	137.1	.3893	1.094
#1	-.0020	.0050	10.72	.0010	1.228	1.251	.0004	.1272	.4677
#2	-.0002	.0059	11.05	.0011	1.227	1.248	-.0018	.1278	.4693
#3	.0006	.0081	11.08	.0008	1.229	1.249	-.0010	.1282	.4773

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4141.5**	**31086.**	**4137.2**
Stddev	29.2	78.	23.6
%RSD	.70509	.25040	.56943
#1	4161.7	31169.	4119.8
#2	4154.8	31075.	4164.0
#3	4108.0	31014.	4127.7

Sample Name: L1849088-02,T Acquired: 12/6/2018 0:40:42 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0007**	**73.60**	**.0681**	**.0656**	**.7784**	**.0037**	**-.0027**	**1398.**	**.0076**	**.0541**
Stddev	.0008	.39	.0025	.0002	.0033	.0000	.0007	23.	.0002	.0006
%RSD	123.5	.5348	3.610	.2728	.4189	.9052	24.74	1.635	1.977	1.043
#1	.0002	74.05	.0699	.0654	.7821	.0037	-.0032	1421.	.0075	.0541
#2	-.0015	73.42	.0691	.0656	.7765	.0037	-.0019	1375.	.0075	.0536
#3	-.0008	73.32	.0653	.0658	.7764	.0036	-.0029	1399.	.0078	.0547

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1198**	**.1708**	**145.2**	**9.006**	**418.8**	**7.493**	**.0079**	**4.957**	**.1135**	**2.115**
Stddev	.0009	.0008	.7	.016	2.3	.045	.0004	.045	.0004	.013
%RSD	.7810	.4802	.5145	.1738	.5458	.6046	4.575	.9186	.3275	.6029
#1	.1192	.1700	146.0	9.023	421.1	7.545	.0075	5.009	.1131	2.111
#2	.1209	.1717	145.0	9.001	416.5	7.470	.0081	4.928	.1135	2.105
#3	.1193	.1707	144.6	8.993	418.7	7.464	.0081	4.934	.1138	2.130

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0009**	**.0093**	**13.84**	**.0131**	**.9387**	**1.302**	**.0041**	**.1851**	**1.290**
Stddev	.0019	.0033	.12	.0010	.0043	.009	.0009	.0007	.009
%RSD	209.1	35.56	.8537	7.607	.4572	.6699	21.93	.3712	.7299
#1	-.0007	.0061	13.70	.0143	.9431	1.304	.0031	.1850	1.285
#2	.0009	.0127	13.87	.0127	.9385	1.293	.0047	.1845	1.283
#3	-.0029	.0091	13.93	.0125	.9346	1.310	.0046	.1858	1.300

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4746.6**	**35280.**	**4742.5**
Stddev	22.7	24.	15.3
%RSD	.47828	.06680	.32178
#1	4749.0	35258.	4726.1
#2	4767.9	35276.	4745.1
#3	4722.7	35305.	4756.3

Sample Name: L1849088-03,T Acquired: 12/6/2018 0:45:28 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0026**	**31.78**	**.0299**	**.0463**	**.2885**	**.0006**	**-.0038**	**862.1**	**.0027**	**.0350**
Stddev	.0010	.49	.0005	.0005	.0034	.0001	.0002	12.5	.0001	.0002
%RSD	37.09	1.527	1.650	1.096	1.190	25.59	5.036	1.447	2.054	.6651
#1	-.0015	31.97	.0305	.0468	.2902	.0007	-.0036	856.7	.0027	.0349
#2	-.0032	32.15	.0296	.0463	.2908	.0006	-.0040	876.4	.0026	.0349
#3	-.0032	31.23	.0296	.0458	.2846	.0004	-.0039	853.3	.0027	.0353

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0598**	**.1160**	**102.0**	**5.619**	**345.6**	**3.689**	**.0035**	**2.140**	**.0610**	**.1071**
Stddev	.0011	.0007	1.3	.098	4.0	.048	.0001	.028	.0005	.0012
%RSD	1.801	.5697	1.262	1.736	1.161	1.301	2.908	1.300	.7790	1.108
#1	.0587	.1155	102.4	5.652	344.7	3.695	.0034	2.167	.0608	.1062
#2	.0600	.1158	103.1	5.696	350.0	3.734	.0036	2.141	.0616	.1067
#3	.0609	.1168	100.6	5.509	342.1	3.638	.0035	2.111	.0607	.1084

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0052**	**.0014**	**6.363**	**.0004**	**.7236**	**1.427**	**-.0005**	**.1431**	**.5955**
Stddev	.0011	.0026	.122	.0008	.0085	.010	.0004	.0001	.0042
%RSD	21.23	187.2	1.920	180.9	1.171	.6925	78.86	.0931	.6997
#1	-.0054	.0036	6.478	-.0001	.7263	1.424	-.0000	.1430	.5938
#2	-.0062	-.0014	6.235	.0001	.7304	1.418	-.0007	.1432	.5924
#3	-.0040	.0019	6.377	.0013	.7141	1.438	-.0007	.1432	.6002

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4406.8**	**32702.**	**4295.1**
Stddev	23.0	257.	49.7
%RSD	.52227	.78587	1.1571
#1	4418.6	32943.	4302.6
#2	4421.6	32730.	4242.1
#3	4380.3	32431.	4340.7

Sample Name: L1849088-04,T Acquired: 12/6/2018 0:50:15 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0078**	**71.38**	**.1592**	**.0648**	**2.918**	**.0032**	**.0041**	**1740.**	**.0187**	**.0541**
Stddev	.0005	.16	.0039	.0003	.004	.0001	.0019	30.	.0002	.0005
%RSD	6.085	.2298	2.457	.5360	.1318	3.267	47.90	1.736	1.154	.9226
#1	.0080	71.48	.1547	.0644	2.918	.0031	.0053	1772.	.0186	.0538
#2	.0081	71.19	.1614	.0651	2.914	.0031	.0018	1712.	.0185	.0538
#3	.0073	71.48	.1616	.0648	2.922	.0033	.0050	1736.	.0189	.0546

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2651**	**.7151**	**155.0**	**7.766**	**133.0**	**4.422**	**.0153**	**3.946**	**.1586**	**13.00**
Stddev	.0015	.0028	.3	.060	1.5	.016	.0003	.014	.0009	.12
%RSD	.5643	.3969	.1911	.7733	1.136	.3714	2.137	.3429	.5812	.9040
#1	.2661	.7149	155.1	7.814	133.6	4.433	.0152	3.952	.1577	12.94
#2	.2634	.7123	154.6	7.699	131.3	4.403	.0151	3.930	.1585	12.93
#3	.2658	.7180	155.2	7.784	134.2	4.430	.0157	3.955	.1596	13.14

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0108**	**.0095**	**7.599**	**.1512**	**2.033**	**1.390**	**.0004**	**.2642**	**4.863**
Stddev	.0030	.0031	.129	.0011	.004	.003	.0022	.0006	.039
%RSD	27.90	32.22	1.696	.6963	.1758	.2310	594.0	.2094	.7969
#1	.0118	.0082	7.606	.1507	2.035	1.393	.0028	.2645	4.839
#2	.0074	.0131	7.466	.1504	2.029	1.391	-.0002	.2635	4.842
#3	.0132	.0074	7.724	.1524	2.035	1.386	-.0015	.2645	4.908

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4652.5**	**34390.**	**4717.7**
Stddev	24.2	44.	26.0
%RSD	.52109	.12876	.55139
#1	4666.5	34441.	4705.5
#2	4666.4	34368.	4747.6
#3	4624.5	34361.	4700.0

Sample Name: L1849060-02,T,2 Acquired: 12/6/2018 0:54:59 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0260**	**94.04**	**.1345**	**.2736**	**3.446**	**.0029**	**-.0021**	**287.7**	**.1802**	**.1800**
Stddev	.0019	.33	.0036	.0020	.005	.0001	.0014	.4	.0013	.0014
%RSD	7.296	.3501	2.648	.7299	.1337	2.484	68.86	.1520	.7436	.7595
#1	.0279	94.42	.1376	.2716	3.452	.0030	-.0005	288.1	.1794	.1792
#2	.0241	93.81	.1353	.2735	3.443	.0029	-.0034	287.5	.1794	.1793
#3	.0261	93.89	.1306	.2756	3.444	.0030	-.0023	287.3	.1817	.1816

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.265**	**5.510**	**582.6**	**7.543**	**62.11**	**7.690**	**.2020**	**1.749**	**1.175**	**12.35**
Stddev	.004	.009	4.9	.062	.30	.025	.0019	.038	.009	.10
%RSD	.2801	.1691	.8326	.8174	.4883	.3263	.9236	2.186	.7932	.7844
#1	1.262	5.500	585.1	7.609	62.44	7.719	.2004	1.791	1.169	12.28
#2	1.269	5.519	585.7	7.487	61.84	7.679	.2017	1.715	1.169	12.30
#3	1.264	5.510	577.0	7.533	62.06	7.672	.2041	1.742	1.185	12.46

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1371**	**.0154**	**6.338**	**.4170**	**.7049**	**1.601**	**.0039**	**.4872**	**27.68**
Stddev	.0036	.0042	.086	.0038	.0011	.007	.0007	.0023	.21
%RSD	2.607	27.36	1.357	.9020	.1614	.4274	17.20	.4726	.7678
#1	.1334	.0192	6.361	.4152	.7059	1.593	.0031	.4876	27.57
#2	.1374	.0109	6.243	.4145	.7037	1.605	.0044	.4893	27.54
#3	.1405	.0162	6.411	.4213	.7052	1.606	.0041	.4847	27.92

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4616.0**	**34707.**	**4438.9**
Stddev	24.6	137.	20.4
%RSD	.53235	.39425	.46040
#1	4624.2	34697.	4418.0
#2	4635.5	34576.	4458.8
#3	4588.4	34849.	4439.8

Sample Name: L1849060-04,T,2 Acquired: 12/6/2018 0:59:33 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0099**	**47.84**	**.0788**	**.3973**	**1.126**	**.0021**	**.0134**	**878.4**	**.0179**	**.0638**
Stddev	.0012	.08	.0010	.0026	.003	.0002	.0013	9.7	.0001	.0005
%RSD	11.68	.1628	1.324	.6645	.2654	7.702	9.711	1.102	.8050	.8143
#1	.0085	47.77	.0776	.3961	1.123	.0019	.0120	875.2	.0177	.0632
#2	.0105	47.92	.0794	.3956	1.128	.0020	.0135	889.3	.0179	.0640
#3	.0105	47.83	.0795	.4004	1.128	.0022	.0146	870.7	.0180	.0642

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2870**	**.8101**	**480.1**	**8.745**	**71.96**	**4.456**	**.0403**	**2.685**	**.2541**	**2.314**
Stddev	.0014	.0032	6.6	.005	.79	.018	.0007	.022	.0020	.016
%RSD	.4789	.3904	1.376	.0625	1.105	.3961	1.695	.8039	.7837	.6897
#1	.2875	.8125	474.5	8.740	71.34	4.435	.0397	2.661	.2538	2.301
#2	.2881	.8112	487.4	8.751	72.86	4.466	.0401	2.703	.2524	2.309
#3	.2855	.8065	478.5	8.743	71.70	4.466	.0411	2.691	.2563	2.331

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0123**	**.0039**	**6.110**	**.1831**	**1.654**	**1.062**	**.0030**	**.1910**	**3.768**
Stddev	.0021	.0022	.100	.0026	.003	.006	.0012	.0007	.024
%RSD	16.72	56.33	1.632	1.414	.1491	.6040	40.51	.3524	.6323
#1	.0123	.0059	6.002	.1821	1.651	1.070	.0044	.1910	3.748
#2	.0143	.0040	6.129	.1812	1.656	1.058	.0020	.1917	3.762
#3	.0102	.0016	6.198	.1861	1.654	1.060	.0026	.1904	3.794

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4298.0**	**32075.**	**4187.7**
Stddev	26.1	136.	40.6
%RSD	.60647	.42325	.97070
#1	4325.1	31962.	4216.0
#2	4295.9	32036.	4141.1
#3	4273.1	32225.	4205.9

Sample Name: L1849060-05,T,2 Acquired: 12/6/2018 1:04:16 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0127**	**85.89**	**.2482**	**.2516**	**2.925**	**.0019**	**-.0021**	**79.15**	**.1264**	**.1562**
Stddev	.0009	.45	.0006	.0018	.015	.0001	.0028	.30	.0008	.0006
%RSD	6.984	.5296	.2377	.7178	.5195	3.646	132.8	.3785	.6430	.3786
#1	.0137	86.31	.2487	.2507	2.942	.0019	-.0051	79.47	.1258	.1557
#2	.0124	85.41	.2483	.2505	2.912	.0020	.0004	78.88	.1260	.1561
#3	.0119	85.95	.2475	.2537	2.921	.0019	-.0017	79.12	.1273	.1568

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8794**	**7.037**	**768.9**	**6.359**	**32.45**	**13.84**	**.9264**	**1.583**	**.9918**	**19.77**
Stddev	.0012	.008	6.6	.023	.11	.06	.0055	.006	.0057	.14
%RSD	.1390	.1078	.8593	.3580	.3442	.4467	.5963	.3785	.5729	.6912
#1	.8808	7.045	776.6	6.350	32.49	13.90	.9221	1.590	.9880	19.67
#2	.8784	7.032	765.5	6.342	32.33	13.77	.9244	1.580	.9892	19.73
#3	.8790	7.032	764.7	6.385	32.54	13.84	.9326	1.579	.9984	19.93

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1456**	**.0190**	**6.201**	**.4363**	**.3214**	**1.192**	**.0246**	**.5430**	**18.10**
Stddev	.0023	.0010	.155	.0041	.0011	.006	.0010	.0013	.13
%RSD	1.560	5.272	2.500	.9367	.3482	.4933	4.198	.2440	.6933
#1	.1436	.0180	6.081	.4332	.3227	1.187	.0248	.5439	18.01
#2	.1450	.0191	6.146	.4348	.3211	1.198	.0235	.5436	18.05
#3	.1480	.0200	6.376	.4409	.3205	1.191	.0255	.5415	18.24

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4587.1**	**34193.**	**4338.7**
Stddev	25.8	112.	7.8
%RSD	.56335	.32639	.17981
#1	4610.4	34267.	4343.1
#2	4591.6	34065.	4343.4
#3	4559.3	34247.	4329.7

Sample Name: L1849060-06,T,2 Acquired: 12/6/2018 1:08:50 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0891**	**43.43**	**.0776**	**.1032**	**1.027**	**.0025**	**-.1085**	**190.6**	**.0529**	**.0710**
Stddev	.0004	.10	.0028	.0008	.002	.0000	.0012	.2	.0006	.0010
%RSD	.4368	.2317	3.559	.8184	.2179	1.738	1.129	.1045	1.125	1.453
#1	.0887	43.55	.0762	.1027	1.029	.0025	-.1071	190.8	.0524	.0702
#2	.0894	43.40	.0808	.1027	1.026	.0026	-.1094	190.5	.0527	.0705
#3	.0893	43.36	.0758	.1042	1.025	.0025	-.1091	190.4	.0536	.0721

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.089**	**20.65**	**236.3**	**3.365**	**31.35**	**1.974**	**.1179**	**.9283**	**.9511**	**7.879**
Stddev	.004	.22	.7	.008	.15	.010	.0010	.0119	.0128	.101
%RSD	.3720	1.052	.2766	.2397	.4650	.4871	.8190	1.284	1.344	1.283
#1	1.088	20.85	237.1	3.365	31.31	1.984	.1174	.9336	.9422	7.806
#2	1.086	20.42	236.1	3.357	31.23	1.974	.1173	.9147	.9454	7.838
#3	1.094	20.68	235.8	3.373	31.52	1.965	.1190	.9367	.9657	7.995

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1154**	**.0070**	**3.521**	**.7584**	**.4055**	**.9333**	**-.0007**	**.2206**	**11.06**
Stddev	.0021	.0011	.059	.0099	.0004	.0047	.0010	.0011	.14
%RSD	1.795	15.70	1.669	1.312	.1083	.4999	149.9	.5190	1.223
#1	.1131	.0059	3.475	.7501	.4060	.9297	.0004	.2196	10.97
#2	.1170	.0070	3.501	.7557	.4051	.9316	-.0008	.2205	11.00
#3	.1160	.0081	3.587	.7695	.4055	.9386	-.0016	.2218	11.22

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4537.0**	**33974.**	**4278.4**
Stddev	30.0	56.	19.4
%RSD	.66077	.16437	.45376
#1	4534.2	33916.	4258.8
#2	4568.2	34028.	4297.6
#3	4508.5	33977.	4278.8

Sample Name: XL1801099-03,C Acquired: 12/6/2018 1:13:26 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0007**	**.0070**	**.0003**	**-.0008**	**.0002**	**-.0000**	**.0002**	**.0447**	**.0000**	**-.0002**
Stddev	.0008	.0073	.0001	.0004	.0002	.0001	.0006	.0114	.0000	.0002
%RSD	117.6	104.6	49.74	54.02	86.90	198.6	267.6	25.46	108.8	86.08
#1	-.0002	.0020	.0001	-.0004	.0004	-.0001	-.0002	.0578	.0001	-.0004
#2	.0011	.0036	.0003	-.0012	-.0000	.0000	.0000	.0375	-.0000	-.0002
#3	.0012	.0154	.0004	-.0008	.0003	-.0000	.0009	.0387	.0001	-.0000

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0012**	**.0530**	**.0408**	**.0047**	**-.0004**	**.0001**	**.0100**	**-.0004**	**.0022**
Stddev	.0003	.0001	.0042	.0389	.0003	.0008	.0003	.0050	.0002	.0012
%RSD	119.3	6.810	7.977	95.31	6.836	191.0	261.9	50.12	55.66	55.36
#1	.0005	.0011	.0570	.0177	.0048	.0004	.0003	.0068	-.0005	.0035
#2	.0001	.0011	.0535	.0858	.0050	-.0006	-.0002	.0074	-.0006	.0011
#3	.0001	.0012	.0486	.0191	.0044	-.0011	.0001	.0158	-.0002	.0019

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0024**	**.0031**	**.0542**	**.0001**	**-.0001**	**.0010**	**-.0023**	**-.0001**	**.0004**
Stddev	.0013	.0014	.0043	.0002	.0001	.0003	.0010	.0003	.0001
%RSD	54.90	46.97	7.973	184.4	48.59	31.08	42.62	179.7	29.75
#1	.0038	.0014	.0589	.0002	-.0002	.0007	-.0012	-.0004	.0005
#2	.0021	.0041	.0535	.0003	-.0001	.0012	-.0032	-.0001	.0003
#3	.0012	.0037	.0503	-.0001	-.0001	.0012	-.0026	.0001	.0003

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4543.4**	**33666.**	**3995.0**
Stddev	25.9	134.	21.6
%RSD	.57062	.39866	.54188
#1	4561.6	33632.	3973.5
#2	4554.9	33814.	3994.9
#3	4513.7	33552.	4016.8

Sample Name: XL1801099-04,C Acquired: 12/6/2018 1:18:05 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment: 10

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**.0079**	**-.0001**	**-.0007**	**.0003**	**.0001**	**.0008**	**.0190**	**.0000**	**.0000**
Stddev	.0006	.0133	.0008	.0005	.0001	.0001	.0013	.0097	.0000	.0000
%RSD	713.2	167.9	628.6	70.83	27.07	75.12	155.7	51.18	11.07	52.61
#1	.0005	.0189	.0008	-.0010	.0003	.0001	.0001	.0081	.0000	.0001
#2	-.0001	-.0069	-.0005	-.0011	.0004	.0000	.0001	.0220	.0000	.0000
#3	-.0006	.0119	-.0007	-.0001	.0002	.0002	.0023	.0269	.0001	.0000

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0002**	**.0224**	**.0595**	**-.0002**	**.0001**	**-.0001**	**.0001**	**-.0002**	**.0019**
Stddev	.0006	.0002	.0036	.0219	.0027	.0002	.0000	.0184	.0003	.0008
%RSD	306.6	84.13	16.24	36.75	1621.	192.8	12.07	25110.	222.9	41.70
#1	.0008	.0002	.0239	.0585	-.0024	.0004	-.0001	.0213	.0002	.0020
#2	-.0004	.0000	.0183	.0381	.0028	.0001	-.0002	-.0114	-.0005	.0011
#3	.0001	.0003	.0251	.0818	-.0009	-.0001	-.0001	-.0097	-.0002	.0027

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0030**	**-.0007**	**.0378**	**-.0002**	**-.0002**	**.0000**	**-.0020**	**-.0002**	**.0001**
Stddev	.0016	.0004	.0023	.0006	.0002	.0002	.0007	.0005	.0001
%RSD	51.45	61.49	5.971	242.2	68.20	944.6	34.55	210.2	86.36
#1	.0030	-.0011	.0369	-.0002	-.0002	-.0001	-.0027	-.0008	.0001
#2	.0015	-.0003	.0404	-.0008	-.0004	.0003	-.0018	.0000	.0000
#3	.0046	-.0007	.0362	.0003	-.0001	-.0001	-.0014	.0001	.0002

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4521.7**	**33866.**	**4007.8**
Stddev	30.9	153.	13.0
%RSD	.68310	.45248	.32472
#1	4546.9	33777.	4017.0
#2	4531.0	34043.	4013.6
#3	4487.3	33779.	3992.9

Sample Name: CCV Acquired: 12/6/2018 1:22:45 Type: QC
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4891**	**.5297**	**.4955**	**.4957**	**.4920**	**.4770**	**-.0031**	**.4947**	**.4855**	**.4823**
Stddev	.0012	.0094	.0019	.0037	.0023	.0035	.0033	.0020	.0017	.0026
%RSD	.2497	1.771	.3787	.7367	.4655	.7283	103.5	.4138	.3594	.5446
#1	.4880	.5328	.4933	.4940	.4938	.4805	-.0032	.4932	.4847	.4807
#2	.4905	.5191	.4966	.4932	.4894	.4735	.0002	.4970	.4842	.4809
#3	.4890	.5371	.4965	.4999	.4928	.4770	-.0063	.4938	.4874	.4854
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4877**	**.4821**	**.5105**	**4.958**	**.4916**	**.5009**	**.4783**	**10.01**	**.4819**	**.5034**
Stddev	.0012	.0004	.0044	.074	.0070	.0036	.0020	.10	.0018	.0014
%RSD	.2540	.0922	.8674	1.485	1.423	.7120	.4109	.9586	.3774	.2849
#1	.4890	.4816	.5122	5.034	.4952	.5046	.4778	10.03	.4802	.5020
#2	.4865	.4822	.5055	4.887	.4836	.4975	.4767	9.899	.4816	.5035
#3	.4876	.4825	.5138	4.955	.4962	.5006	.4805	10.09	.4838	.5049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4964**	**.4933**	**5.024**	**.4807**	**.4720**	**.4779**	**.4852**	**.4989**	**.4781**
Stddev	.0025	.0028	.018	.0036	.0032	.0001	.0029	.0007	.0024
%RSD	.5096	.5744	.3590	.7407	.6713	.0212	.5926	.1342	.5039
#1	.4956	.4914	5.016	.4787	.4755	.4780	.4845	.4985	.4769
#2	.4943	.4919	5.011	.4785	.4693	.4779	.4827	.4996	.4766
#3	.4992	.4966	5.044	.4848	.4712	.4778	.4883	.4984	.4809
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4539.4**	**33662.**	**4030.8**
Stddev	18.4	200.	32.4
%RSD	.40455	.59463	.80301
#1	4547.9	33711.	3997.3
#2	4552.0	33442.	4061.9
#3	4518.4	33833.	4033.3

Sample Name: CCB Acquired: 12/6/2018 1:27:11 Type: QC
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0007**	**.0047**	**-.0003**	**.0000**	**.0001**	**.0001**	**.0008**	**.0410**	**.0002**	**-.0000**
Stddev	.0009	.0101	.0009	.0004	.0002	.0000	.0010	.0061	.0001	.0001
%RSD	124.1	216.5	281.1	916.6	147.2	14.71	125.5	15.01	34.75	353.8
#1	.0006	.0073	-.0010	.0002	-.0000	.0001	-.0001	.0350	.0002	-.0001
#2	.0017	.0132	.0007	-.0004	.0001	.0001	.0006	.0407	.0001	-.0001
#3	-.0001	-.0065	-.0007	.0003	.0003	.0001	.0018	.0473	.0001	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006**	**.0004**	**.0186**	**.0056**	**.0021**	**.0008**	**.0015**	**.0070**	**.0006**	**.0011**
Stddev	.0008	.0006	.0034	.0461	.0038	.0005	.0003	.0081	.0003	.0002
%RSD	123.2	164.9	18.32	823.6	177.7	66.45	19.16	115.1	44.90	23.35
#1	.0009	.0007	.0207	.0327	.0053	.0012	.0019	.0038	.0004	.0009
#2	-.0002	-.0003	.0204	-.0477	-.0020	.0002	.0014	.0163	.0005	.0013
#3	.0013	.0007	.0146	.0317	.0030	.0010	.0013	.0011	.0009	.0010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0010**	**.0030**	**.0217**	**.0015**	**-.0001**	**.0005**	**-.0007**	**.0001**	**.0017**
Stddev	.0011	.0012	.0002	.0002	.0001	.0001	.0011	.0003	.0001
%RSD	102.8	39.20	.8061	16.98	53.74	15.39	164.8	285.1	6.543
#1	.0023	.0017	.0219	.0017	-.0000	.0005	-.0020	-.0002	.0017
#2	.0005	.0033	.0218	.0012	-.0001	.0005	-.0000	.0003	.0016
#3	.0004	.0039	.0215	.0014	-.0001	.0006	-.0000	.0002	.0018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4534.0**	**33510.**	**3965.6**
Stddev	31.6	70.	17.2
%RSD	.69589	.21004	.43277
#1	4553.6	33591.	3964.8
#2	4550.9	33480.	3948.9
#3	4497.6	33460.	3983.2

Sample Name: WG1186031-2,T,2 Acquired: 12/6/2018 1:31:51 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2045**	**19.62**	**.5113**	**.6193**	**1.604**	**.6992**	**-.0126**	**16.79**	**.7255**	**.6456**
Stddev	.0008	.10	.0045	.0054	.007	.0030	.0005	.08	.0060	.0063
%RSD	.3923	.4869	.8838	.8660	.4318	.4288	3.909	.4585	.8280	.9728
#1	.2037	19.52	.5106	.6172	1.597	.6964	-.0131	16.71	.7231	.6421
#2	.2045	19.62	.5072	.6154	1.605	.6988	-.0126	16.80	.7211	.6418
#3	.2053	19.71	.5162	.6254	1.611	.7023	-.0121	16.87	.7323	.6529

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4848**	**.6560**	**50.14**	**6.098**	**6.882**	**1.237**	**.6457**	**5.238**	**.5484**	**.7947**
Stddev	.0017	.0012	.23	.070	.029	.007	.0054	.034	.0044	.0069
%RSD	.3409	.1828	.4576	1.143	.4141	.6060	.8438	.6569	.8057	.8701
#1	.4838	.6548	49.92	6.033	6.882	1.228	.6436	5.200	.5460	.7942
#2	.4867	.6572	50.13	6.090	6.854	1.240	.6416	5.244	.5457	.7880
#3	.4839	.6559	50.38	6.172	6.911	1.242	.6519	5.268	.5535	.8018

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3862**	**.2782**	**2.897**	**.4989**	**.3217**	**1.014**	**.8258**	**.6075**	**.7516**
Stddev	.0037	.0009	.031	.0034	.0017	.009	.0073	.0015	.0064
%RSD	.9519	.3141	1.065	.6834	.5234	.8613	.8799	.2390	.8531
#1	.3837	.2777	2.894	.4976	.3203	1.010	.8206	.6061	.7490
#2	.3844	.2778	2.867	.4964	.3213	1.023	.8227	.6090	.7468
#3	.3904	.2792	2.929	.5028	.3236	1.007	.8341	.6073	.7588

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4585.5**	**34047.**	**4161.7**
Stddev	29.0	143.	13.7
%RSD	.63315	.42134	.32944
#1	4587.5	34206.	4169.1
#2	4613.5	33927.	4170.2
#3	4555.5	34009.	4145.9

Sample Name: L1849088-05,T Acquired: 12/6/2018 1:36:15 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0019**	**97.45**	**.1248**	**.0324**	**.6683**	**.0038**	**.0001**	**461.3**	**.0056**	**.0636**
Stddev	.0006	.62	.0019	.0012	.0031	.0003	.0024	6.5	.0001	.0007
%RSD	32.33	.6362	1.499	3.670	.4636	7.503	3243.	1.419	1.672	1.156
#1	-.0014	97.79	.1233	.0311	.6699	.0036	-.0015	468.9	.0056	.0633
#2	-.0016	96.73	.1241	.0328	.6647	.0038	.0028	457.2	.0055	.0631
#3	-.0026	97.82	.1269	.0334	.6703	.0042	-.0010	457.9	.0057	.0645

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1202**	**.1113**	**178.2**	**7.221**	**197.8**	**8.382**	**.0094**	**3.550**	**.1054**	**.7965**
Stddev	.0006	.0009	.9	.056	2.5	.050	.0002	.038	.0007	.0086
%RSD	.5373	.8143	.4821	.7770	1.242	.5924	2.568	1.075	.7020	1.074
#1	.1198	.1114	178.4	7.196	197.3	8.401	.0096	3.544	.1051	.7891
#2	.1198	.1103	177.3	7.286	195.7	8.326	.0094	3.515	.1048	.7945
#3	.1209	.1121	179.0	7.182	200.5	8.420	.0092	3.591	.1062	.8058

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0047**	**.0098**	**15.17**	**.0136**	**.3477**	**1.511**	**.0068**	**.2091**	**.7508**
Stddev	.0039	.0018	.11	.0006	.0015	.003	.0008	.0007	.0075
%RSD	83.19	17.99	.7362	4.191	.4226	.1756	11.92	.3185	1.000
#1	-.0012	.0099	15.05	.0131	.3484	1.513	.0076	.2084	.7459
#2	-.0040	.0115	15.28	.0135	.3460	1.508	.0067	.2097	.7471
#3	-.0089	.0080	15.19	.0142	.3487	1.511	.0060	.2093	.7595

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4653.3**	**34435.**	**4467.3**
Stddev	44.1	140.	38.4
%RSD	.94724	.40616	.85960
#1	4688.6	34536.	4478.0
#2	4667.4	34275.	4499.1
#3	4603.9	34493.	4424.6

Sample Name: L1849088-06,T Acquired: 12/6/2018 1:41:01 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**41.71**	**.1148**	**.0762**	**.8686**	**.0035**	**.0015**	**2186.**	**.0159**	**.0441**
Stddev	.0013	.38	.0017	.0012	.0093	.0004	.0009	22.	.0001	.0003
%RSD	445.2	.9017	1.483	1.611	1.070	12.40	57.61	.9970	.8661	.7516
#1	-.0010	41.43	.1134	.0754	.8618	.0032	.0022	2174.	.0158	.0439
#2	.0002	41.56	.1143	.0756	.8648	.0033	.0018	2172.	.0158	.0439
#3	.0017	42.14	.1167	.0776	.8792	.0040	.0005	2211.	.0160	.0445

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1893**	**.3793**	**169.8**	**6.140**	**184.7**	**3.014**	**.0529**	**4.213**	**.1478**	**2.085**
Stddev	.0005	.0020	1.8	.058	.7	.030	.0005	.039	.0014	.017
%RSD	.2415	.5211	1.038	.9418	.3915	.9859	.8556	.9343	.9160	.7921
#1	.1891	.3800	168.6	6.074	184.2	2.994	.0525	4.193	.1467	2.074
#2	.1898	.3809	168.9	6.177	185.5	2.999	.0529	4.188	.1474	2.077
#3	.1890	.3771	171.8	6.170	184.4	3.048	.0534	4.259	.1493	2.104

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0045**	**.0108**	**13.63**	**.0911**	**1.857**	**1.604**	**-.0028**	**.1808**	**2.172**
Stddev	.0018	.0024	.27	.0003	.020	.018	.0021	.0008	.018
%RSD	40.81	22.03	1.996	.3775	1.085	1.113	72.04	.4388	.8339
#1	.0025	.0132	13.42	.0908	1.843	1.593	-.0052	.1817	2.160
#2	.0061	.0109	13.53	.0912	1.849	1.624	-.0018	.1806	2.162
#3	.0048	.0084	13.94	.0914	1.880	1.594	-.0015	.1801	2.193

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4442.1**	**32728.**	**4462.3**
Stddev	26.5	81.	24.6
%RSD	.59741	.24864	.55192
#1	4457.8	32663.	4474.1
#2	4456.9	32703.	4478.9
#3	4411.4	32819.	4434.0

Sample Name: L1849088-07,T Acquired: 12/6/2018 1:45:46 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0028**	**68.20**	**.0573**	**.1590**	**.2766**	**.0020**	**-.0044**	**2544.**	**.0039**	**.0584**
Stddev	.0007	.02	.0005	.0009	.0005	.0000	.0024	17.	.0000	.0003
%RSD	24.63	.0333	.8606	.5504	.1830	.8149	55.33	.6692	.5625	.5779
#1	-.0027	68.17	.0578	.1581	.2765	.0020	-.0071	2524.	.0040	.0584
#2	-.0035	68.22	.0569	.1590	.2762	.0020	-.0024	2554.	.0039	.0581
#3	-.0022	68.20	.0572	.1598	.2772	.0020	-.0036	2552.	.0039	.0588

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1375**	**.1919**	**161.0**	**15.82**	**1133.**	**7.275**	**.0116**	**4.837**	**.1392**	**.1540**
Stddev	.0008	.0004	.5	.07	9.	.024	.0004	.029	.0007	.0019
%RSD	.5895	.2253	.3389	.4528	.8009	.3244	3.662	.5971	.4802	1.244
#1	.1377	.1924	160.4	15.90	1125.	7.248	.0117	4.808	.1388	.1562
#2	.1367	.1918	161.1	15.79	1143.	7.289	.0111	4.838	.1388	.1526
#3	.1383	.1915	161.5	15.77	1133.	7.288	.0120	4.865	.1400	.1532

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0039**	**.0041**	**16.57**	**.0013**	**1.569**	**1.814**	**.0026**	**.1742**	**.5289**
Stddev	.0008	.0015	.35	.0008	.003	.020	.0018	.0005	.0045
%RSD	19.51	37.33	2.097	60.64	.1812	1.079	70.76	.3112	.8565
#1	-.0035	.0045	16.35	.0004	1.566	1.809	.0033	.1748	.5271
#2	-.0034	.0024	16.39	.0019	1.571	1.835	.0039	.1737	.5255
#3	-.0048	.0054	16.97	.0017	1.571	1.797	.0005	.1742	.5341

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4102.3**	**31075.**	**4278.2**
Stddev	27.1	111.	23.5
%RSD	.66029	.35797	.55024
#1	4111.5	31185.	4298.4
#2	4123.5	31078.	4252.4
#3	4071.8	30963.	4283.9

Sample Name: L1849088-08,T Acquired: 12/6/2018 1:50:30 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0032**	**37.14**	**.0312**	**.0834**	**.2657**	**.0007**	**-.0059**	**1593.**	**.0032**	**.0360**
Stddev	.0004	.31	.0025	.0015	.0020	.0002	.0003	6.	.0001	.0002
%RSD	13.25	.8452	8.122	1.775	.7632	24.19	4.873	.3994	3.030	.5012
#1	-.0028	37.43	.0290	.0830	.2672	.0006	-.0063	1597.	.0033	.0361
#2	-.0036	37.18	.0340	.0821	.2665	.0006	-.0058	1596.	.0031	.0358
#3	-.0031	36.81	.0307	.0850	.2634	.0009	-.0057	1586.	.0032	.0362

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0681**	**.1327**	**102.7**	**8.311**	**639.2**	**3.864**	**.0028**	**2.689**	**.0658**	**.1059**
Stddev	.0007	.0004	.7	.090	3.6	.029	.0003	.029	.0007	.0012
%RSD	1.051	.2961	.6637	1.082	.5654	.7641	12.50	1.079	1.061	1.151
#1	.0674	.1323	103.3	8.412	643.3	3.895	.0025	2.722	.0656	.1060
#2	.0688	.1331	102.9	8.241	636.5	3.861	.0032	2.678	.0652	.1046
#3	.0682	.1327	102.0	8.280	637.7	3.837	.0027	2.668	.0666	.1070

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0045**	**.0020**	**9.102**	**.0005**	**1.311**	**1.239**	**-.0021**	**.1280**	**.7164**
Stddev	.0005	.0039	.077	.0004	.008	.005	.0015	.0005	.0052
%RSD	11.42	195.2	.8460	88.83	.5864	.3676	70.01	.4111	.7199
#1	-.0050	-.0011	9.089	.0002	1.316	1.235	-.0014	.1276	.7137
#2	-.0040	.0064	9.032	.0002	1.314	1.244	-.0011	.1286	.7131
#3	-.0046	.0008	9.185	.0010	1.302	1.238	-.0038	.1277	.7223

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4136.6**	**31074.**	**4150.7**
Stddev	24.7	92.	19.7
%RSD	.59668	.29576	.47429
#1	4138.8	31175.	4131.7
#2	4160.2	30996.	4149.3
#3	4111.0	31051.	4171.0

Sample Name: L1849088-09,T Acquired: 12/6/2018 1:55:17 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0014**	**41.44**	**.0292**	**.0437**	**.2251**	**.0006**	**-.0048**	**843.9**	**.0047**	**.0377**
Stddev	.0015	.07	.0006	.0003	.0004	.0000	.0002	8.4	.0001	.0005
%RSD	104.2	.1716	1.954	.6732	.1758	8.465	3.225	1.001	1.106	1.260
#1	-.0032	41.51	.0287	.0436	.2255	.0006	-.0046	840.2	.0046	.0373
#2	-.0006	41.42	.0298	.0434	.2248	.0005	-.0050	853.6	.0047	.0376
#3	-.0006	41.37	.0291	.0440	.2249	.0006	-.0048	838.0	.0047	.0383

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0739**	**.1456**	**115.5**	**6.363**	**345.5**	**4.528**	**.0060**	**2.472**	**.0615**	**.1258**
Stddev	.0001	.0004	.0	.051	.6	.006	.0000	.011	.0003	.0027
%RSD	.1439	.2741	.0400	.8071	.1708	.1238	.6559	.4576	.4886	2.146
#1	.0739	.1460	115.6	6.403	346.2	4.534	.0060	2.477	.0613	.1269
#2	.0741	.1452	115.5	6.380	345.1	4.525	.0060	2.459	.0614	.1227
#3	.0738	.1457	115.5	6.305	345.2	4.525	.0060	2.479	.0618	.1277

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0048**	**.0051**	**8.445**	**-.0000**	**.6547**	**1.600**	**.0001**	**.1734**	**1.023**
Stddev	.0015	.0024	.111	.0007	.0013	.004	.0013	.0002	.009
%RSD	31.41	47.55	1.319	1611.	.1965	.2452	1579.	.1151	.8312
#1	-.0063	.0035	8.567	-.0007	.6532	1.605	.0016	.1732	1.018
#2	-.0047	.0079	8.350	-.0001	.6555	1.599	-.0006	.1736	1.019
#3	-.0033	.0039	8.417	.0007	.6555	1.597	-.0007	.1733	1.033

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4648.4**	**34667.**	**4518.6**
Stddev	28.4	59.	19.3
%RSD	.61109	.16920	.42644
#1	4661.0	34706.	4539.6
#2	4668.3	34695.	4501.6
#3	4615.9	34599.	4514.7

Sample Name: L1849088-10,T Acquired: 12/6/2018 2:00:04 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0019**	**115.0**	**.1260**	**.0477**	**1.280**	**.0046**	**.0036**	**476.2**	**.0087**	**.0597**
Stddev	.0009	.3	.0011	.0010	.004	.0001	.0004	4.9	.0001	.0003
%RSD	49.81	.2994	.8640	2.007	.2706	2.919	12.38	1.030	.6165	.4263
#1	.0015	115.4	.1262	.0481	1.284	.0047	.0032	475.9	.0087	.0595
#2	.0011	114.7	.1270	.0466	1.280	.0044	.0037	471.4	.0086	.0596
#3	.0029	115.0	.1249	.0484	1.277	.0046	.0041	481.2	.0087	.0600

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1715**	**.2540**	**185.8**	**9.068**	**192.9**	**8.389**	**.0103**	**6.000**	**.1183**	**2.341**
Stddev	.0012	.0005	.4	.063	.7	.029	.0001	.039	.0012	.020
%RSD	.7254	.2109	.2295	.6912	.3732	.3471	.7792	.6544	1.016	.8541
#1	.1701	.2541	186.3	9.124	192.9	8.421	.0104	6.043	.1174	2.330
#2	.1725	.2534	185.7	9.000	193.6	8.363	.0102	5.989	.1179	2.329
#3	.1719	.2544	185.5	9.079	192.2	8.384	.0103	5.967	.1196	2.364

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0022**	**.0193**	**10.33**	**.0839**	**.5301**	**1.449**	**.0044**	**.2641**	**1.653**
Stddev	.0018	.0007	.16	.0010	.0005	.006	.0013	.0004	.012
%RSD	80.50	3.644	1.558	1.195	.0884	.3930	28.56	.1577	.7356
#1	-.0032	.0187	10.15	.0828	.5306	1.445	.0037	.2637	1.647
#2	-.0033	.0191	10.37	.0842	.5298	1.447	.0058	.2644	1.645
#3	-.0002	.0200	10.46	.0847	.5298	1.456	.0036	.2644	1.667

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4667.8**	**34451.**	**4453.7**
Stddev	22.6	43.	11.6
%RSD	.48315	.12491	.25941
#1	4674.0	34423.	4458.9
#2	4686.6	34430.	4461.7
#3	4642.8	34501.	4440.4

Sample Name: L1849088-12,T Acquired: 12/6/2018 2:04:49 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0076**	**138.7**	**.2981**	**.0790**	**4.673**	**.0070**	**.0069**	**541.5**	**.0288**	**.1261**
Stddev	.0004	.4	.0034	.0006	.016	.0000	.0005	2.0	.0003	.0013
%RSD	5.105	.2917	1.129	.7642	.3343	.2434	7.950	.3779	.8871	1.031
#1	.0081	138.5	.2949	.0792	4.663	.0070	.0075	543.3	.0287	.1251
#2	.0076	139.2	.2978	.0784	4.691	.0070	.0067	541.8	.0285	.1256
#3	.0073	138.4	.3016	.0796	4.665	.0070	.0064	539.2	.0290	.1276

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2897**	**1.359**	**379.3**	**17.31**	**97.56**	**8.514**	**.0206**	**4.749**	**.2386**	**11.47**
Stddev	.0022	.004	2.4	.04	.44	.034	.0002	.035	.0021	.08
%RSD	.7524	.3138	.6345	.2081	.4461	.3932	1.164	.7423	.8635	.6941
#1	.2876	1.364	379.5	17.32	97.78	8.497	.0206	4.754	.2379	11.44
#2	.2920	1.356	381.6	17.34	97.84	8.553	.0204	4.782	.2369	11.42
#3	.2896	1.356	376.8	17.27	97.06	8.494	.0208	4.712	.2409	11.56

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0309**	**.0221**	**12.38**	**.3967**	**.9355**	**1.495**	**.0058**	**.4494**	**8.966**
Stddev	.0002	.0026	.14	.0029	.0029	.022	.0015	.0011	.065
%RSD	.4887	11.98	1.139	.7228	.3124	1.489	26.11	.2350	.7196
#1	.0310	.0250	12.52	.3950	.9340	1.514	.0047	.4489	8.939
#2	.0308	.0198	12.24	.3951	.9389	1.470	.0051	.4506	8.920
#3	.0310	.0215	12.39	.4000	.9336	1.499	.0075	.4486	9.040

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4797.7**	**35031.**	**4637.8**
Stddev	23.4	123.	10.9
%RSD	.48734	.35002	.23506
#1	4801.1	35170.	4638.8
#2	4819.3	34986.	4626.4
#3	4772.9	34938.	4648.1

Sample Name: XL1801099-05,C Acquired: 12/6/2018 2:09:32 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0003**	**.0174**	**-.0012**	**.0002**	**.0001**	**.0000**	**.0006**	**.0659**	**-.0000**	**-.0000**
Stddev	.0004	.0159	.0004	.0005	.0002	.0000	.0012	.0129	.0000	.0001
%RSD	124.6	91.50	36.11	249.4	325.7	94.53	183.0	19.53	561.3	2592.
#1	-.0008	.0200	-.0012	.0007	.0003	.0001	.0012	.0743	.0000	.0001
#2	-.0000	.0319	-.0008	-.0003	.0000	.0000	-.0007	.0724	.0000	-.0001
#3	-.0002	.0003	-.0016	.0002	-.0001	.0000	.0014	.0511	-.0001	-.0001

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0001**	**.0577**	**-.0082**	**.0158**	**.0003**	**-.0004**	**.0243**	**-.0002**	**.0018**
Stddev	.0004	.0005	.0072	.0389	.0009	.0005	.0000	.0131	.0002	.0011
%RSD	143.1	895.8	12.54	476.5	5.925	164.7	4.393	53.95	141.7	58.70
#1	-.0000	-.0000	.0509	-.0469	.0167	.0005	-.0004	.0111	-.0004	.0012
#2	.0008	.0005	.0653	-.0086	.0149	-.0002	-.0005	.0373	-.0002	.0031
#3	.0001	-.0004	.0571	.0310	.0158	.0006	-.0004	.0244	.0001	.0012

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0007**	**.0015**	**.0339**	**-.0002**	**-.0001**	**.0007**	**-.0016**	**.0001**	**.0001**
Stddev	.0014	.0021	.0033	.0002	.0003	.0003	.0010	.0006	.0002
%RSD	184.5	144.8	9.685	103.5	270.0	50.11	59.35	513.9	265.7
#1	.0014	-.0008	.0341	-.0001	.0002	.0010	-.0006	-.0003	.0001
#2	.0017	.0017	.0371	-.0005	-.0003	.0007	-.0018	-.0001	.0003
#3	-.0008	.0034	.0306	-.0001	-.0002	.0003	-.0025	.0008	-.0002

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4528.3**	**33886.**	**3995.1**
Stddev	31.4	51.	6.4
%RSD	.69290	.14908	.16089
#1	4552.1	33829.	3999.9
#2	4540.1	33922.	3987.8
#3	4492.8	33908.	3997.6

Sample Name: XL1801099-06,C Acquired: 12/6/2018 2:14:11 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment: 10

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0036**	**.0002**	**.0001**	**-.0001**	**.0001**	**-.0009**	**.0331**	**.0000**	**-.0001**
Stddev	.0009	.0063	.0008	.0005	.0002	.0002	.0011	.0045	.0000	.0002
%RSD	277.8	174.0	496.4	503.8	190.7	195.6	123.5	13.56	46.91	117.3
#1	-.0006	.0070	-.0006	.0007	-.0001	.0002	-.0016	.0329	.0001	.0000
#2	.0013	.0076	.0009	-.0001	.0001	-.0001	.0004	.0287	.0000	-.0003
#3	.0004	-.0037	.0002	-.0003	-.0002	.0001	-.0015	.0377	.0000	-.0002

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0010**	**-.0002**	**.0161**	**.0044**	**.0033**	**.0001**	**-.0005**	**.0204**	**-.0003**	**.0015**
Stddev	.0003	.0003	.0015	.0913	.0034	.0005	.0001	.0097	.0002	.0011
%RSD	26.18	163.6	9.070	2091.	105.1	760.4	17.01	47.65	73.54	77.27
#1	.0009	-.0006	.0145	.1051	.0000	-.0004	-.0006	.0212	-.0004	.0002
#2	.0013	.0000	.0173	-.0192	.0069	.0000	-.0005	.0296	-.0000	.0025
#3	.0009	-.0000	.0166	-.0729	.0029	.0006	-.0004	.0103	-.0004	.0017

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0010**	**.0008**	**.0219**	**-.0007**	**-.0003**	**.0006**	**-.0020**	**-.0000**	**-.0001**
Stddev	.0009	.0012	.0005	.0005	.0001	.0005	.0004	.0001	.0000
%RSD	91.71	143.8	2.309	66.88	20.42	83.72	19.18	1318.	28.21
#1	.0017	.0022	.0223	-.0002	-.0002	.0012	-.0023	.0000	-.0001
#2	.0013	-.0002	.0220	-.0008	-.0002	.0002	-.0020	.0001	-.0002
#3	-.0000	.0006	.0213	-.0011	-.0003	.0004	-.0016	-.0002	-.0001

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4510.2**	**33644.**	**4009.7**
Stddev	18.2	204.	14.7
%RSD	.40313	.60614	.36679
#1	4503.3	33415.	4019.6
#2	4530.8	33806.	4016.8
#3	4496.5	33710.	3992.8

Sample Name: CCV Acquired: 12/6/2018 2:18:50 Type: QC
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4840**	**.5113**	**.4862**	**.4874**	**.4860**	**.4705**	**-.0028**	**.4913**	**.4777**	**.4751**
Stddev	.0022	.0126	.0038	.0024	.0014	.0019	.0010	.0102	.0033	.0030
%RSD	.4478	2.458	.7839	.4898	.2812	.4087	34.26	2.076	.6964	.6296
#1	.4822	.5088	.4847	.4859	.4875	.4727	-.0037	.4966	.4757	.4733
#2	.4835	.5002	.4833	.4863	.4849	.4689	-.0018	.4796	.4759	.4734
#3	.4864	.5249	.4905	.4902	.4856	.4699	-.0030	.4979	.4816	.4785
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4826**	**.4774**	**.4972**	**4.940**	**.4844**	**.4916**	**.4700**	**9.828**	**.4751**	**.4920**
Stddev	.0021	.0018	.0026	.053	.0024	.0025	.0041	.011	.0036	.0031
%RSD	.4403	.3720	.5237	1.067	.4980	.5119	.8807	.1066	.7477	.6395
#1	.4818	.4778	.5002	4.972	.4839	.4941	.4672	9.821	.4728	.4906
#2	.4809	.4754	.4956	4.968	.4871	.4917	.4680	9.840	.4732	.4898
#3	.4850	.4789	.4957	4.879	.4823	.4891	.4747	9.822	.4792	.4956
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4890**	**.4878**	**4.942**	**.4722**	**.4671**	**.4729**	**.4811**	**.4914**	**.4702**
Stddev	.0025	.0055	.034	.0035	.0017	.0022	.0039	.0020	.0032
%RSD	.5107	1.119	.6769	.7475	.3567	.4559	.8020	.4058	.6722
#1	.4884	.4861	4.923	.4687	.4690	.4705	.4786	.4898	.4683
#2	.4868	.4834	4.923	.4720	.4662	.4736	.4792	.4908	.4683
#3	.4917	.4939	4.981	.4758	.4660	.4746	.4856	.4937	.4738
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4561.3**	**33775.**	**4077.9**
Stddev	31.0	153.	39.4
%RSD	.68056	.45285	.96528
#1	4579.8	33949.	4059.3
#2	4578.6	33712.	4051.3
#3	4525.5	33663.	4123.1

Sample Name: CCB Acquired: 12/6/2018 2:23:16 Type: QC
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**.0046**	**-.0016**	**.0006**	**.0003**	**.0000**	**.0007**	**.0287**	**.0001**	**-.0002**
Stddev	.0007	.0105	.0005	.0005	.0001	.0001	.0010	.0062	.0000	.0000
%RSD	3525.	228.9	30.38	82.08	19.99	139.6	139.7	21.42	39.56	17.12
#1	.0002	.0083	-.0012	.0001	.0003	.0000	.0013	.0220	.0001	-.0002
#2	.0006	.0128	-.0015	.0011	.0003	-.0000	.0013	.0301	.0000	-.0002
#3	-.0007	-.0073	-.0021	.0006	.0004	.0001	-.0004	.0341	.0001	-.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**.0004**	**.0110**	**-.0104**	**.0047**	**-.0001**	**.0012**	**.0368**	**.0004**	**.0008**
Stddev	.0010	.0002	.0016	.1146	.0025	.0005	.0006	.0143	.0004	.0005
%RSD	211.6	59.49	14.71	1100.	54.46	871.8	49.27	38.91	92.92	64.29
#1	.0011	.0001	.0099	.0992	.0051	.0000	.0018	.0392	.0004	.0009
#2	-.0007	.0004	.0129	-.1295	.0070	-.0006	.0010	.0214	.0000	.0013
#3	.0011	.0005	.0103	-.0009	.0019	.0004	.0007	.0497	.0008	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0017**	**.0011**	**.0182**	**.0011**	**-.0002**	**.0002**	**-.0013**	**.0002**	**.0006**
Stddev	.0014	.0015	.0010	.0004	.0003	.0007	.0002	.0006	.0000
%RSD	81.75	135.5	5.546	33.29	167.0	410.9	11.83	296.2	7.274
#1	.0012	.0016	.0192	.0014	-.0005	-.0004	-.0011	.0009	.0006
#2	.0007	.0024	.0172	.0007	.0001	.0010	-.0014	-.0002	.0007
#3	.0034	-.0006	.0182	.0012	-.0001	-.0000	-.0013	-.0001	.0006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4526.6**	**33556.**	**3966.2**
Stddev	29.3	202.	20.3
%RSD	.64654	.60167	.51276
#1	4538.3	33329.	3946.7
#2	4548.2	33627.	3964.6
#3	4493.3	33713.	3987.3

Sample Name: L1849088-13,T Acquired: 12/6/2018 2:27:56 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0029**	**46.40**	**.5587**	**.1252**	**.4219**	**.0011**	**.0001**	**2064.**	**.0095**	**.0468**
Stddev	.0010	.37	.0079	.0008	.0027	.0001	.0013	35.	.0000	.0005
%RSD	35.99	.8007	1.417	.6740	.6493	7.644	1381.	1.673	.2061	.9943
#1	-.0019	46.79	.5590	.1248	.4245	.0012	-.0014	2037.	.0095	.0468
#2	-.0040	46.05	.5506	.1245	.4191	.0011	.0005	2052.	.0095	.0463
#3	-.0028	46.38	.5664	.1261	.4221	.0010	.0011	2103.	.0095	.0472

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0884**	**.2857**	**227.1**	**10.59**	**980.3**	**10.26**	**.0108**	**3.172**	**.2500**	**.1832**
Stddev	.0003	.0016	1.4	.05	7.3	.06	.0002	.007	.0012	.0018
%RSD	.3348	.5647	.6150	.4287	.7447	.5740	2.299	.2082	.4616	1.009
#1	.0882	.2863	228.2	10.65	973.6	10.32	.0109	3.172	.2498	.1815
#2	.0887	.2870	225.6	10.56	979.4	10.20	.0105	3.165	.2491	.1831
#3	.0882	.2839	227.6	10.58	988.1	10.27	.0110	3.179	.2513	.1852

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0015**	**.0070**	**10.19**	**.0028**	**1.232**	**1.329**	**.0097**	**.1839**	**1.916**
Stddev	.0023	.0015	.21	.0005	.009	.009	.0022	.0002	.011
%RSD	160.8	21.27	2.022	16.64	.7221	.7013	22.74	.1201	.5953
#1	-.0025	.0053	10.31	.0026	1.240	1.333	.0122	.1841	1.913
#2	-.0030	.0079	9.957	.0033	1.222	1.318	.0079	.1839	1.907
#3	.0012	.0078	10.32	.0025	1.234	1.335	.0091	.1836	1.929

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4060.5**	**30536.**	**4163.5**
Stddev	21.9	123.	12.8
%RSD	.53944	.40307	.30704
#1	4061.6	30488.	4162.7
#2	4081.9	30444.	4176.6
#3	4038.1	30675.	4151.1

Sample Name: L1849088-14,T Acquired: 12/6/2018 2:32:42 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**134.2**	**.1305**	**.0789**	**1.655**	**.0057**	**.0010**	**605.9**	**.0206**	**.0980**
Stddev	.0004	.3	.0014	.0010	.004	.0000	.0006	2.9	.0002	.0008
%RSD	355.7	.2361	1.111	1.327	.2641	.3398	59.14	.4792	1.097	.8647
#1	-.0006	134.6	.1296	.0785	1.657	.0057	.0010	609.2	.0206	.0974
#2	.0001	134.2	.1296	.0780	1.659	.0057	.0015	603.6	.0204	.0977
#3	.0002	133.9	.1322	.0800	1.651	.0056	.0004	604.9	.0208	.0990

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2015**	**.3444**	**275.6**	**16.45**	**270.7**	**8.710**	**.0137**	**25.00**	**.1653**	**9.908**
Stddev	.0009	.0004	4.4	.05	1.3	.014	.0002	.00	.0015	.055
%RSD	.4407	.1107	1.589	.2741	.4922	.1647	1.143	.0172	.8964	.5563
#1	.2025	.3447	276.7	16.49	271.1	8.721	.0138	25.00	.1642	9.884
#2	.2008	.3440	270.8	16.40	269.3	8.715	.0138	25.00	.1647	9.869
#3	.2014	.3444	279.4	16.47	271.9	8.694	.0135	25.01	.1670	9.971

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0020**	**.0134**	**7.994**	**.0838**	**.5572**	**1.387**	**.0032**	**.3617**	**8.617**
Stddev	.0016	.0009	.195	.0013	.0014	.017	.0019	.0014	.051
%RSD	83.04	6.367	2.433	1.508	.2566	1.218	59.23	.3840	.5893
#1	-.0032	.0143	7.836	.0838	.5584	1.372	.0040	.3606	8.597
#2	-.0026	.0134	7.935	.0826	.5576	1.405	.0047	.3612	8.580
#3	-.0001	.0126	8.211	.0851	.5556	1.384	.0011	.3633	8.675

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**5289.8**	**39536.**	**5159.5**
Stddev	17.8	123.	21.6
%RSD	.33612	.31229	.41938
#1	5283.1	39601.	5162.7
#2	5309.9	39613.	5179.4
#3	5276.3	39393.	5136.5

Sample Name: L1849088-18,T Acquired: 12/6/2018 2:37:35 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0023**	**52.85**	**.0450**	**.1333**	**.2077**	**.0014**	**-.0110**	**2265.**	**.0036**	**.0487**
Stddev	.0006	.03	.0032	.0009	.0004	.0000	.0001	25.	.0000	.0004
%RSD	25.03	.0608	7.074	.6986	.2075	2.341	.5616	1.119	1.031	.7895
#1	-.0027	52.86	.0456	.1329	.2072	.0014	-.0110	2288.	.0036	.0486
#2	-.0026	52.87	.0415	.1327	.2080	.0014	-.0110	2270.	.0036	.0484
#3	-.0016	52.81	.0478	.1344	.2078	.0013	-.0111	2238.	.0036	.0492

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1057**	**.1883**	**130.2**	**13.39**	**1047.**	**5.612**	**.0084**	**6.009**	**.1022**	**1.308**
Stddev	.0017	.0009	.1	.08	5.	.005	.0004	.022	.0003	.010
%RSD	1.574	.5014	.0766	.5724	.4306	.0820	4.239	.3715	.3273	.7953
#1	.1070	.1876	130.1	13.42	1050.	5.609	.0080	5.983	.1023	1.304
#2	.1063	.1894	130.3	13.45	1049.	5.609	.0083	6.020	.1018	1.301
#3	.1038	.1879	130.1	13.31	1041.	5.617	.0087	6.024	.1024	1.320

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0036**	**.0067**	**11.98**	**.0025**	**1.394**	**1.504**	**-.0010**	**.1413**	**1.665**
Stddev	.0014	.0013	.09	.0014	.001	.011	.0021	.0006	.013
%RSD	39.59	19.20	.7554	56.19	.1027	.7187	214.5	.4164	.7618
#1	-.0020	.0053	11.87	.0036	1.395	1.504	.0014	.1410	1.658
#2	-.0046	.0077	12.02	.0028	1.393	1.493	-.0020	.1420	1.657
#3	-.0041	.0072	12.04	.0009	1.395	1.515	-.0024	.1409	1.680

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4083.6**	**30846.**	**4190.4**
Stddev	23.3	77.	18.3
%RSD	.56974	.24912	.43741
#1	4093.7	30772.	4186.0
#2	4100.2	30925.	4174.8
#3	4057.0	30840.	4210.6

Sample Name: L1849060-02,T,20 Acquired: 12/6/2018 2:42:20 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0031**	**10.10**	**.0140**	**.0301**	**.3685**	**.0001**	**.0012**	**31.19**	**.0204**	**.0204**
Stddev	.0012	.03	.0015	.0004	.0015	.0001	.0015	.13	.0002	.0006
%RSD	39.75	.3368	10.82	1.361	.3969	56.70	117.1	.4223	1.149	2.890
#1	.0039	10.14	.0144	.0302	.3698	.0001	.0018	31.30	.0203	.0201
#2	.0038	10.10	.0153	.0305	.3690	.0000	-.0004	31.23	.0203	.0200
#3	.0017	10.07	.0124	.0297	.3669	.0001	.0023	31.05	.0207	.0211

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1422**	**.5719**	**68.92**	**.8299**	**7.550**	**.8724**	**.0216**	**.2528**	**.1344**	**1.409**
Stddev	.0007	.0013	.30	.0343	.059	.0032	.0001	.0261	.0014	.011
%RSD	.5100	.2197	.4328	4.134	.7884	.3689	.3716	10.33	1.050	.7617
#1	.1429	.5733	69.22	.7945	7.618	.8756	.0215	.2576	.1341	1.409
#2	.1415	.5711	68.92	.8630	7.505	.8724	.0217	.2762	.1331	1.398
#3	.1422	.5712	68.62	.8322	7.528	.8692	.0216	.2246	.1359	1.420

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0159**	**.0004**	**.4747**	**.0463**	**.0746**	**.1710**	**-.0014**	**.0533**	**3.314**
Stddev	.0002	.0022	.0066	.0006	.0002	.0012	.0007	.0003	.030
%RSD	1.016	563.4	1.391	1.209	.2762	.7265	49.45	.5609	.9085
#1	.0161	-.0007	.4699	.0467	.0749	.1724	-.0011	.0535	3.301
#2	.0158	.0029	.4719	.0456	.0746	.1704	-.0022	.0535	3.292
#3	.0158	-.0011	.4822	.0464	.0745	.1702	-.0009	.0530	3.348

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4520.5**	**33545.**	**4042.5**
Stddev	38.0	86.	26.5
%RSD	.84139	.25505	.65575
#1	4541.7	33633.	4011.9
#2	4543.1	33462.	4058.0
#3	4476.6	33541.	4057.6

Sample Name: L1849060-05,T,20 Acquired: 12/6/2018 2:46:50 Type: Unk
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0013**	**8.839**	**.0257**	**.0266**	**.2974**	**.0002**	**-.0004**	**8.257**	**.0135**	**.0170**
Stddev	.0008	.081	.0017	.0009	.0024	.0000	.0021	.040	.0004	.0006
%RSD	60.62	.9177	6.797	3.355	.7906	26.99	499.3	.4806	3.098	3.412
#1	.0017	8.927	.0238	.0260	.2993	.0002	.0004	8.269	.0132	.0164
#2	.0004	8.824	.0262	.0262	.2983	.0001	.0012	8.289	.0134	.0171
#3	.0017	8.767	.0272	.0276	.2948	.0002	-.0028	8.213	.0140	.0175

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0929**	**.6867**	**87.83**	**.6357**	**3.733**	**1.475**	**.0956**	**.2362**	**.1072**	**2.118**
Stddev	.0005	.0017	.46	.0710	.029	.009	.0027	.0051	.0031	.064
%RSD	.5867	.2473	.5212	11.17	.7780	.6372	2.804	2.142	2.845	2.996
#1	.0924	.6886	88.34	.6130	3.767	1.485	.0940	.2366	.1052	2.074
#2	.0934	.6857	87.71	.5788	3.717	1.473	.0941	.2411	.1058	2.090
#3	.0930	.6857	87.45	.7153	3.717	1.466	.0987	.2310	.1107	2.191

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0149**	**.0001**	**.5161**	**.0459**	**.0332**	**.1200**	**.0014**	**.0552**	**1.995**
Stddev	.0008	.0038	.0129	.0013	.0003	.0009	.0013	.0011	.056
%RSD	5.324	2646.	2.497	2.912	1.012	.7507	92.58	2.056	2.786
#1	.0147	.0016	.5072	.0450	.0332	.1192	.0029	.0540	1.956
#2	.0143	.0029	.5102	.0452	.0335	.1210	.0005	.0555	1.970
#3	.0158	-.0041	.5309	.0474	.0328	.1197	.0008	.0562	2.059

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4514.1**	**33699.**	**4015.5**
Stddev	29.5	35.	25.3
%RSD	.65286	.10467	.62998
#1	4532.1	33668.	3986.3
#2	4530.2	33737.	4031.0
#3	4480.1	33693.	4029.1

Sample Name: .005 Acquired: 12/6/2018 2:51:20 Type: QC
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0047**	**-.0005**	**.0041**	**.0051**	**.0048**	**.0049**	**.0053**	**.0357**	**.0048**	**.0050**
Stddev	.0017	.0060	.0022	.0005	.0003	.0000	.0016	.0132	.0000	.0001
%RSD	35.57	1182.	53.54	10.21	5.962	.8296	29.61	37.11	.8991	2.535
#1	.0035	-.0065	.0019	.0054	.0052	.0049	.0056	.0467	.0049	.0049
#2	.0067	.0055	.0063	.0054	.0046	.0049	.0067	.0394	.0048	.0052
#3	.0041	-.0005	.0040	.0045	.0048	.0049	.0036	.0210	.0049	.0049
Check ?	Chk Pass	None	Chk Pass	None	None	Chk Pass	None	None	Chk Pass	None
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0056**	**.0045**	**.0285**	**.0537**	**.0130**	**.0050**	**.0045**	**.0797**	**.0051**	**.0069**
Stddev	.0004	.0003	.0054	.0497	.0040	.0001	.0002	.0148	.0004	.0006
%RSD	7.672	6.067	18.77	92.69	30.58	2.783	4.221	18.54	7.790	8.960
#1	.0055	.0048	.0347	.0362	.0169	.0049	.0043	.0961	.0050	.0064
#2	.0052	.0042	.0252	.1098	.0131	.0050	.0047	.0756	.0055	.0076
#3	.0060	.0046	.0257	.0150	.0090	.0051	.0045	.0674	.0047	.0067
Check ?	None	None	None	None	None	None	None	None	None	None
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0073**	**.0067**	**.0233**	**.0040**	**.0045**	**.0054**	**.0029**	**.0051**	**.0061**
Stddev	.0023	.0007	.0021	.0002	.0003	.0001	.0003	.0006	.0000
%RSD	31.79	10.63	9.177	4.918	6.408	2.232	11.18	11.77	.3087
#1	.0078	.0075	.0248	.0041	.0046	.0054	.0025	.0044	.0061
#2	.0094	.0065	.0243	.0038	.0047	.0053	.0029	.0054	.0061
#3	.0048	.0062	.0209	.0041	.0042	.0056	.0031	.0054	.0061
Check ?	None	None	None	None	None	None	None	None	None
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4570.3**	**34195.**	**3974.6**
Stddev	38.7	42.	55.6
%RSD	.84752	.12211	1.3985
#1	4592.3	34236.	3910.4
#2	4592.9	34196.	4006.8
#3	4525.6	34152.	4006.6

Sample Name: .01 Acquired: 12/6/2018 2:55:57 Type: QC
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0097**	**.0287**	**.0093**	**.0082**	**.0097**	**.0097**	**.0103**	**.0325**	**.0097**	**.0096**
Stddev	.0006	.0080	.0009	.0003	.0003	.0001	.0018	.0134	.0001	.0002
%RSD	6.341	27.71	9.161	3.290	3.511	1.515	17.09	41.08	1.131	2.367
#1	.0102	.0354	.0097	.0079	.0101	.0098	.0104	.0359	.0097	.0097
#2	.0097	.0199	.0083	.0085	.0095	.0098	.0084	.0438	.0096	.0094
#3	.0090	.0309	.0099	.0082	.0095	.0096	.0119	.0178	.0098	.0098
Check ?	None	None	None	Chk Pass	Chk Pass	None	Chk Pass	None	None	Chk Pass
Value										
Range										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0113**	**.0096**	**.0242**	**.1119**	**.0162**	**.0099**	**.0092**	**.0993**	**.0100**	**.0108**
Stddev	.0002	.0000	.0049	.0703	.0011	.0005	.0001	.0054	.0002	.0010
%RSD	2.033	.5070	20.22	62.80	6.894	5.109	1.195	5.418	2.123	9.145
#1	.0116	.0097	.0272	.0526	.0166	.0105	.0092	.0966	.0102	.0100
#2	.0112	.0096	.0269	.0937	.0149	.0095	.0092	.0958	.0101	.0105
#3	.0112	.0096	.0186	.1895	.0170	.0098	.0093	.1055	.0098	.0119
Check ?	Chk Pass	Chk Pass	None	None	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
Value										
Range										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0099**	**.0104**	**.0244**	**.0085**	**.0093**	**.0098**	**.0082**	**.0099**	**.0105**
Stddev	.0007	.0012	.0018	.0006	.0000	.0003	.0001	.0001	.0002
%RSD	6.680	11.79	7.512	7.185	.4793	3.195	1.403	1.398	1.611
#1	.0102	.0114	.0233	.0078	.0093	.0102	.0081	.0097	.0105
#2	.0103	.0090	.0265	.0088	.0092	.0096	.0083	.0100	.0104
#3	.0091	.0108	.0234	.0090	.0093	.0097	.0082	.0099	.0107
Check ?	None	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value									
Range									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4545.9**	**33636.**	**4020.2**
Stddev	45.4	275.	35.0
%RSD	.99792	.81869	.87038
#1	4551.0	33321.	3986.7
#2	4588.5	33829.	4017.2
#3	4498.2	33759.	4056.5

Sample Name: CCV Acquired: 12/6/2018 3:02:09 Type: QC
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4808**	**.5344**	**.4867**	**.4877**	**.4897**	**.4761**	**-.0023**	**.5085**	**.4776**	**.4750**
Stddev	.0020	.0166	.0035	.0024	.0034	.0035	.0005	.0058	.0030	.0029
%RSD	.4150	3.110	.7246	.4923	.6872	.7403	22.83	1.138	.6179	.6154
#1	.4814	.5533	.4832	.4863	.4924	.4794	-.0017	.5141	.4762	.4736
#2	.4825	.5222	.4866	.4863	.4859	.4724	-.0028	.5026	.4755	.4730
#3	.4786	.5277	.4903	.4905	.4908	.4766	-.0023	.5089	.4809	.4783
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4812**	**.4753**	**.4986**	**4.999**	**.4889**	**.4997**	**.4708**	**10.07**	**.4752**	**.4924**
Stddev	.0005	.0009	.0026	.058	.0058	.0020	.0031	.05	.0026	.0029
%RSD	.1032	.1825	.5235	1.166	1.195	.3933	.6483	.4733	.5479	.5941
#1	.4811	.4745	.5014	5.038	.4942	.5016	.4696	10.13	.4740	.4916
#2	.4808	.4762	.4962	4.932	.4897	.4977	.4686	10.04	.4734	.4900
#3	.4818	.4753	.4983	5.027	.4826	.4999	.4743	10.05	.4782	.4956
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4892**	**.4849**	**4.937**	**.4729**	**.4690**	**.4718**	**.4785**	**.4911**	**.4696**
Stddev	.0039	.0030	.026	.0037	.0033	.0008	.0038	.0010	.0031
%RSD	.7988	.6178	.5332	.7802	.7010	.1734	.7998	.2103	.6541
#1	.4850	.4815	4.924	.4714	.4715	.4727	.4760	.4910	.4683
#2	.4901	.4866	4.920	.4702	.4653	.4717	.4767	.4922	.4674
#3	.4926	.4868	4.968	.4771	.4702	.4711	.4829	.4901	.4731
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4549.8**	**33561.**	**4008.3**
Stddev	18.0	66.	18.1
%RSD	.39454	.19635	.45179
#1	4561.9	33546.	3987.6
#2	4558.5	33504.	4016.0
#3	4529.2	33633.	4021.3

Sample Name: CCB Acquired: 12/6/2018 3:06:34 Type: QC
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0013**	**.0096**	**-.0005**	**-.0007**	**.0001**	**.0000**	**-.0002**	**.0156**	**.0001**	**.0000**
Stddev	.0014	.0066	.0006	.0006	.0004	.0001	.0016	.0102	.0000	.0002
%RSD	109.0	68.55	125.4	85.26	751.7	674.8	1029.	65.60	15.64	698.3
#1	.0029	.0020	-.0011	-.0001	-.0002	.0001	.0015	.0274	.0001	.0001
#2	.0006	.0131	.0001	-.0013	-.0002	-.0000	-.0017	.0093	.0002	-.0002
#3	.0003	.0138	-.0004	-.0006	.0006	-.0000	-.0003	.0101	.0002	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008**	**.0005**	**.0076**	**-.0212**	**.0037**	**.0002**	**.0013**	**.1125**	**.0003**	**.0003**
Stddev	.0003	.0004	.0029	.0258	.0039	.0007	.0003	.0129	.0002	.0012
%RSD	36.00	81.08	38.86	121.6	103.8	396.0	25.93	11.43	72.48	369.3
#1	.0007	.0007	.0068	-.0251	-.0004	.0002	.0017	.1220	.0005	.0016
#2	.0006	.0000	.0051	-.0449	.0044	-.0005	.0012	.1176	.0001	-.0007
#3	.0012	.0008	.0108	.0063	.0072	.0009	.0011	.0979	.0004	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0020**	**.0012**	**.0161**	**.0014**	**-.0001**	**.0006**	**-.0018**	**.0001**	**.0005**
Stddev	.0009	.0028	.0012	.0001	.0000	.0002	.0006	.0004	.0001
%RSD	44.19	235.5	7.255	10.91	47.35	30.40	34.85	314.1	22.10
#1	.0012	.0041	.0170	.0014	-.0001	.0005	-.0015	.0000	.0006
#2	.0018	.0010	.0148	.0015	-.0001	.0005	-.0026	-.0002	.0004
#3	.0030	-.0015	.0166	.0012	-.0001	.0008	-.0014	.0005	.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4511.3**	**33578.**	**3941.5**
Stddev	30.0	73.	41.9
%RSD	.66531	.21715	1.0627
#1	4520.5	33514.	3942.2
#2	4535.6	33658.	3983.0
#3	4477.7	33563.	3899.2

Sample Name: .05 Acquired: 12/6/2018 3:11:15 Type: QC
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0486**	**.0474**	**.0450**	**.0481**	**.0483**	**.0478**	**.0488**	W **.0627**	**.0478**	**.0479**
Stddev	.0011	.0140	.0004	.0000	.0002	.0003	.0011	.0061	.0004	.0005
%RSD	2.293	29.63	.9686	.0876	.5009	.7007	2.189	9.667	.8956	1.058
#1	.0498	.0624	.0449	.0481	.0482	.0482	.0499	.0697	.0476	.0478
#2	.0482	.0453	.0455	.0481	.0482	.0475	.0478	.0589	.0475	.0475
#3	.0477	.0345	.0446	.0481	.0486	.0478	.0485	.0596	.0482	.0485
Check ?	None	Chk Pass	None	None	None	None	None	Chk Warn	None	None
Value								.0602		
Range								.0398		

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0495**	**.0483**	**.0586**	**2.426**	**.0488**	**.0494**	**.0480**	**2.098**	**.0482**	**.0484**
Stddev	.0002	.0007	.0020	.054	.0009	.0010	.0004	.040	.0003	.0014
%RSD	.4074	1.510	3.451	2.242	1.816	2.008	.7320	1.896	.5580	2.850
#1	.0495	.0485	.0609	2.489	.0488	.0504	.0478	2.143	.0481	.0498
#2	.0493	.0489	.0571	2.391	.0479	.0484	.0478	2.069	.0479	.0482
#3	.0497	.0475	.0578	2.398	.0497	.0493	.0484	2.081	.0484	.0471
Check ?	None	None	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass	None	None
Value										
Range										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0473**	**.0474**	**.4882**	**.0471**	**.0471**	**.0478**	**.0454**	**.0483**	**.0475**
Stddev	.0033	.0006	.0036	.0009	.0001	.0004	.0002	.0002	.0004
%RSD	7.063	1.321	.7365	1.884	.2352	.7953	.4791	.4873	.8354
#1	.0444	.0474	.4879	.0463	.0471	.0476	.0453	.0485	.0472
#2	.0464	.0468	.4848	.0470	.0473	.0483	.0457	.0485	.0472
#3	.0510	.0481	.4920	.0480	.0470	.0476	.0453	.0481	.0479
Check ?	Chk Pass	None	Chk Pass	None	None	None	None	Chk Pass	Chk Pass
Value									
Range									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4513.1**	**33754.**	**3987.3**
Stddev	22.7	42.	21.3
%RSD	.50253	.12520	.53504
#1	4513.2	33720.	3967.9
#2	4535.8	33741.	4010.2
#3	4490.4	33801.	3984.0

Sample Name: ICSA Acquired: 12/6/2018 3:15:48 Type: QC
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**295.8**	**.0028**	**.0012**	**.0006**	**.0001**	**.0090**	**281.8**	**.0015**	**-.0009**
Stddev	.0010	1.1	.0025	.0011	.0003	.0000	.0022	.8	.0000	.0002
%RSD	1963.	.3676	89.07	88.00	45.99	31.71	24.50	.2807	.3661	23.29
#1	-.0009	295.9	.0033	.0010	.0010	.0001	.0080	282.2	.0015	-.0007
#2	-.0004	294.6	.0051	.0024	.0004	.0001	.0075	280.9	.0015	-.0010
#3	.0011	296.7	.0001	.0003	.0005	.0001	.0115	282.3	.0015	-.0011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0014**	**-.0075**	**110.0**	**.0015**	**261.2**	**.0021**	**.0007**	**.2450**	**-.0058**	**.0092**
Stddev	.0009	.0008	.4	.0074	1.4	.0003	.0002	.0092	.0003	.0025
%RSD	66.55	10.74	.3507	497.8	.5450	15.32	23.25	3.744	4.699	27.83
#1	.0012	-.0079	110.2	-.0067	262.2	.0023	.0006	.2527	-.0059	.0075
#2	.0024	-.0066	109.6	.0036	259.6	.0017	.0007	.2349	-.0056	.0078
#3	.0006	-.0080	110.3	.0076	261.8	.0023	.0009	.2474	-.0061	.0121
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0065**	**.0179**	**-.0002**	**.0088**	**.0069**	**-.0010**	**-.0008**	**.0085**
Stddev	.0010	.0023	.0008	.0003	.0002	.0003	.0018	.0000	.0001
%RSD	1041.	34.64	4.707	174.4	2.458	3.669	170.0	4.913	1.565
#1	.0004	.0089	.0188	-.0005	.0086	.0068	-.0027	-.0008	.0084
#2	.0009	.0063	.0171	.0000	.0091	.0072	-.0014	-.0008	.0085
#3	-.0010	.0044	.0178	-.0000	.0087	.0067	.0009	-.0008	.0087
Check ?	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4130.9**	**30043.**	**3858.6**
Stddev	33.1	159.	16.3
%RSD	.80175	.52846	.42372
#1	4140.3	30087.	3846.4
#2	4158.4	30176.	3877.2
#3	4094.2	29867.	3852.2

Sample Name: ICSAB Acquired: 12/6/2018 3:20:27 Type: QC
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0011	F .0380	F .0003	F .0001	F -.0001	F .0001	.0014	F .0435	F .0000	F .0001
Stddev	.0009	.0061	.0016	.0004	.0004	.0001	.0012	.0051	.0000	.0001
%RSD	85.57	16.10	567.8	320.9	508.9	98.68	89.46	11.78	156.0	147.3
#1	.0020	.0437	.0016	.0005	-.0004	-.0000	.0028	.0376	-.0000	.0002
#2	.0001	.0315	.0008	-.0002	-.0001	.0001	.0004	.0456	.0001	.0001
#3	.0012	.0389	-.0015	.0000	.0003	.0001	.0010	.0472	.0000	-.0000
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	None	Chk Fail	Chk Fail	Chk Fail
High Limit	.3614	10.84	1.205	.6024	.3614	.1205		54.22	.3614	.3614
Low Limit	.2386	7.157	.7952	.3976	.2386	.0799		35.78	.2386	.2386

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0006	F .0000	F .0363	F -.0118	F .0282	F -.0001	F -.0003	F .0996	F .0002	F -.0001
Stddev	.0006	.0003	.0012	.0497	.0016	.0002	.0002	.0219	.0003	.0017
%RSD	91.04	648.0	3.233	422.0	5.595	163.0	64.35	22.00	175.3	1196.
#1	.0001	.0004	.0354	-.0450	.0300	.0001	-.0001	.1237	.0003	.0013
#2	.0012	-.0000	.0359	.0454	.0272	-.0001	-.0005	.0809	.0003	-.0021
#3	.0006	-.0002	.0376	-.0357	.0273	-.0003	-.0004	.0941	-.0002	.0003
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit	.3614	.3614	45.18	24.10	27.11	.2410	.3614	9.036	.3614	1.205
Low Limit	.2386	.2386	29.82	15.90	17.89	.1590	.2386	5.964	.2386	.7952

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0018	F -.0013	F .0076	F -.0003	F -.0003	F -.0002	F -.0019	F -.0001	F .0026
Stddev	.0013	.0006	.0007	.0002	.0002	.0004	.0005	.0007	.0001
%RSD	71.30	49.05	9.440	63.57	63.97	218.4	28.56	600.1	3.013
#1	.0005	-.0014	.0070	-.0002	-.0003	-.0007	-.0017	-.0005	.0027
#2	.0018	-.0006	.0084	-.0002	-.0001	.0000	-.0025	.0007	.0025
#3	.0031	-.0019	.0075	-.0006	-.0005	.0001	-.0014	-.0005	.0026
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit	1.205	.6024	1.482	1.205	1.205	1.205	1.200	.3600	.3614
Low Limit	.7952	.3976	.9781	.7952	.7952	.7952	.7952	.2386	.2386

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	4564.2	34079.	3988.4
Stddev	28.2	170.	22.7
%RSD	.61683	.49879	.56863
#1	4576.0	34127.	3962.9
#2	4584.5	33890.	4006.5
#3	4532.0	34220.	3995.7

Sample Name: CRI Acquired: 12/6/2018 3:25:09 Type: QC
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0020	F .0643	F -.0000	F .0013	F .0020	F .0006	.0029	F .0503	F .0006	F .0046
Stddev	.0007	.0081	.0011	.0003	.0002	.0000	.0016	.0049	.0000	.0002
%RSD	37.65	12.52	8692.	27.42	7.660	8.519	55.04	9.783	4.141	3.965
#1	.0017	.0664	.0003	.0009	.0019	.0006	.0046	.0504	.0006	.0044
#2	.0028	.0711	.0009	.0016	.0022	.0006	.0014	.0454	.0006	.0046
#3	.0014	.0554	-.0012	.0013	.0020	.0005	.0027	.0552	.0006	.0047
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	None	Chk Fail	Chk Fail	Chk Fail
High Limit	.0261	.5219	.0261	.1305	.0522	.0130		.5219	.0130	.1305
Low Limit	.0139	.2781	.0139	.0695	.0278	.0070		.2781	.0070	.0695

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0021	F .0031	F .0387	F .2847	F .0320	F .0020	F .0047	F .3957	F .0048	F .0031
Stddev	.0003	.0005	.0032	.0086	.0017	.0010	.0003	.0134	.0001	.0007
%RSD	14.54	14.81	8.331	3.006	5.462	52.20	6.381	3.398	2.607	21.61
#1	.0023	.0036	.0408	.2765	.0338	.0023	.0044	.4093	.0049	.0037
#2	.0022	.0029	.0350	.2841	.0304	.0028	.0046	.3825	.0049	.0024
#3	.0017	.0028	.0403	.2936	.0317	.0008	.0050	.3952	.0047	.0033
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit	.0261	.0652	.2610	6.524	.5219	.0391	.1305	6.524	.1044	.0587
Low Limit	.0139	.0348	.1390	3.476	.2781	.0209	.0695	3.476	.0556	.0313

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0065	F .0030	F .0663	F .0008	F .0010	F .0012	F -.0012	F .0050	F .0129
Stddev	.0005	.0013	.0004	.0004	.0001	.0007	.0011	.0002	.0001
%RSD	8.187	44.17	.5390	50.40	13.55	57.04	89.14	3.943	1.012
#1	.0067	.0016	.0667	.0013	.0012	.0014	-.0024	.0050	.0129
#2	.0059	.0043	.0660	.0005	.0011	.0005	-.0006	.0048	.0128
#3	.0070	.0032	.0662	.0006	.0009	.0019	-.0006	.0052	.0131
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit	.1305	.0261	1.305	.0261	.0261	.0261	.0261	.1305	.0522
Low Limit	.0695	.0139	.6952	.0139	.0139	.0139	.0139	.0695	.0278

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	4531.6	33879.	3991.6
Stddev	27.8	62.	41.4
%RSD	.61382	.18306	1.0383
#1	4551.7	33920.	3984.9
#2	4543.2	33807.	4036.0
#3	4499.9	33909.	3953.9

Sample Name: CCV Acquired: 12/6/2018 3:29:49 Type: QC
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4791**	**.5323**	**.4864**	**.4879**	**.4930**	**.4786**	**-.0012**	**.4807**	**.4770**	**.4736**
Stddev	.0014	.0156	.0059	.0048	.0022	.0019	.0001	.0034	.0038	.0046
%RSD	.2931	2.923	1.211	.9750	.4471	.4017	7.098	.7112	.7932	.9621
#1	.4803	.5494	.4806	.4850	.4955	.4805	-.0011	.4834	.4750	.4713
#2	.4795	.5190	.4863	.4852	.4914	.4787	-.0013	.4769	.4746	.4706
#3	.4776	.5284	.4924	.4934	.4921	.4766	-.0012	.4819	.4814	.4788
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4800**	**.4743**	**.5039**	**5.014**	**.4969**	**.5040**	**.4692**	**10.22**	**.4740**	**.4931**
Stddev	.0013	.0013	.0039	.032	.0071	.0017	.0047	.04	.0043	.0024
%RSD	.2625	.2642	.7747	.6409	1.419	.3339	.9946	.4392	.9164	.4965
#1	.4791	.4742	.5049	5.034	.5016	.5059	.4659	10.27	.4725	.4913
#2	.4815	.4756	.5073	5.031	.5005	.5026	.4672	10.20	.4706	.4920
#3	.4795	.4731	.4996	4.977	.4888	.5036	.4746	10.18	.4789	.4959
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4893**	**.4848**	**4.904**	**.4716**	**.4721**	**.4704**	**.4777**	**.4898**	**.4687**
Stddev	.0060	.0024	.046	.0037	.0021	.0011	.0045	.0001	.0038
%RSD	1.225	.4923	.9358	.7811	.4473	.2356	.9377	.0132	.8081
#1	.4851	.4825	4.880	.4700	.4745	.4714	.4759	.4898	.4668
#2	.4867	.4847	4.875	.4691	.4708	.4705	.4743	.4898	.4663
#3	.4962	.4872	4.957	.4759	.4709	.4692	.4827	.4899	.4731
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4527.4**	**33453.**	**3945.3**
Stddev	21.6	135.	14.5
%RSD	.47796	.40436	.36764
#1	4545.3	33500.	3931.3
#2	4533.5	33558.	3944.2
#3	4503.3	33300.	3960.3

Sample Name: CCB Acquired: 12/6/2018 3:34:15 Type: QC
Method: Trace_5_E200.7_SW6010_July_2018(v46) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1185910 Custom ID2: Trace5 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**.0116**	**-.0001**	**-.0006**	**.0000**	**-.0000**	**.0016**	**.0039**	**.0001**	**-.0001**
Stddev	.0007	.0110	.0018	.0004	.0002	.0001	.0009	.0125	.0000	.0002
%RSD	2959.	94.20	2663.	61.23	1535.	1438.	57.22	316.9	16.89	215.1
#1	-.0002	.0118	-.0021	-.0002	.0003	.0001	.0025	.0056	.0001	.0001
#2	-.0006	.0225	.0012	-.0008	-.0001	-.0001	.0015	.0155	.0001	-.0002
#3	.0008	.0006	.0007	-.0008	-.0001	.0000	.0007	-.0093	.0001	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008**	**-.0002**	**.0089**	**.0494**	**.0003**	**.0002**	**.0016**	**.1244**	**.0003**	**.0012**
Stddev	.0004	.0004	.0052	.0598	.0018	.0004	.0004	.0186	.0003	.0003
%RSD	48.74	226.4	58.17	121.0	641.5	166.5	25.65	14.91	95.34	28.60
#1	.0007	-.0006	.0066	.0175	-.0012	.0004	.0021	.1446	.0000	.0016
#2	.0012	-.0002	.0148	.0123	-.0002	-.0002	.0015	.1206	.0003	.0010
#3	.0005	.0002	.0052	.1183	.0022	.0005	.0012	.1081	.0006	.0010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0031**	**-.0002**	**.0119**	**.0018**	**.0004**	**.0003**	**-.0020**	**-.0001**	**.0005**
Stddev	.0022	.0021	.0010	.0006	.0005	.0006	.0003	.0004	.0001
%RSD	69.66	1324.	7.967	32.24	126.6	216.3	13.37	586.7	12.44
#1	.0020	-.0024	.0122	.0025	-.0001	.0005	-.0023	.0002	.0005
#2	.0018	.0015	.0109	.0013	.0008	.0008	-.0018	-.0005	.0005
#3	.0057	.0005	.0127	.0016	.0005	-.0004	-.0020	.0001	.0006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**4500.9**	**33814.**	**3984.4**
Stddev	30.7	19.	50.8
%RSD	.68263	.05508	1.2754
#1	4508.6	33834.	3927.3
#2	4527.1	33811.	4024.7
#3	4467.1	33797.	4001.2

Sample Name: Std 0 Acquired: 12/6/2018 8:00:31 Type: Cal
Method: Trace 6_E200.7_SW6010(v116) Mode: IR Corr. Factor: 1.000000
User: mc Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

REVIEWED
By drm at 9:01 am, Dec 07, 2018

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.0005**	**-.0023**	**-.0001**	**.0010**	**.0032**	**-.0002**	**.0006**	**.0012**	**.0005**	**.0000**
Stddev	.0002	.0008	.0000	.0002	.0004	.0004	.0001	.0001	.0000	.0000
%RSD	36.59	32.95	37.40	14.95	11.19	257.1	22.57	9.651	6.344	41.88
#1	-.0004	-.0015	-.0001	.0012	.0036	-.0002	.0006	.0011	.0005	.0000
#2	-.0003	-.0025	-.0001	.0009	.0029	.0003	.0008	.0014	.0005	.0000
#3	-.0007	-.0030	-.0000	.0009	.0032	-.0006	.0005	.0012	.0005	.0001

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.0006**	**.0119**	**.0006**	**-.0069**	**-.0021**	**-.0004**	**.0008**	**-.0084**	**-.0005**	**-.0001**
Stddev	.0001	.0002	.0002	.0006	.0007	.0002	.0000	.0007	.0000	.0001
%RSD	10.41	1.897	36.32	8.320	32.89	53.95	6.343	7.715	6.955	79.37
#1	-.0006	.0122	.0006	-.0072	-.0023	-.0002	.0008	-.0083	-.0005	-.0002
#2	-.0005	.0117	.0003	-.0062	-.0026	-.0006	.0008	-.0079	-.0005	-.0000
#3	-.0007	.0119	.0007	-.0073	-.0013	-.0003	.0007	-.0091	-.0005	-.0001

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0003**	**.0002**	**.0053**	**.0003**	**-.0044**	**.0007**	**-.0002**	**.0005**	**.0001**
Stddev	.0001	.0001	.0005	.0000	.0006	.0002	.0001	.0001	.0001
%RSD	28.19	25.20	8.878	12.20	13.14	30.09	30.98	13.27	41.10
#1	.0003	.0002	.0050	.0003	-.0043	.0009	-.0002	.0004	.0002
#2	.0004	.0003	.0051	.0003	-.0038	.0008	-.0003	.0005	.0001
#3	.0002	.0002	.0059	.0002	-.0050	.0005	-.0002	.0005	.0001

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7890.7**	**38201.**	**6441.5**
Stddev	140.6	492.	45.8
%RSD	1.7819	1.2891	.71120
#1	7802.6	37744.	6488.6
#2	7816.7	38137.	6438.7
#3	8052.9	38723.	6397.1

Sample Name: Std 1 ICAL Acquired: 12/6/2018 8:05:33 Type: Cal
Method: Trace 6_E200.7_SW6010(v116) Mode: IR Corr. Factor: 1.000000
User: mc Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.6575**	**.0920**	**.0717**	**.3165**	**3.689**	**5.864**	**.2001**	**.0491**	**3.085**	**1.096**
Stddev	.0029	.0011	.0013	.0063	.014	.033	.0041	.0009	.062	.022
%RSD	.4405	1.169	1.838	1.979	.3838	.5595	2.043	1.834	2.019	2.026
#1	.6608	.0908	.0726	.3204	3.673	5.827	.2028	.0481	3.121	1.110
#2	.6560	.0927	.0724	.3197	3.695	5.882	.2020	.0496	3.122	1.107
#3	.6557	.0925	.0702	.3092	3.700	5.885	.1954	.0497	3.013	1.070

Elem	Cr2677	Cu3247	Fe2599	Mg2790	Mn2576R	Mo2020	Ni2316	Pb2203	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.4171**	**.8385**	**.0831**	**.2519**	**.4389**	**.5948**	**.5688**	**.1660**	**.1186**	**.0595**
Stddev	.0026	.0021	.0005	.0004	.0042	.0114	.0119	.0035	.0022	.0012
%RSD	.6210	.2494	.6286	.1560	.9497	1.915	2.088	2.101	1.820	1.984
#1	.4200	.8409	.0828	.2515	.4341	.6018	.5764	.1681	.1199	.0602
#2	.4149	.8371	.0827	.2522	.4418	.6010	.5748	.1679	.1199	.0601
#3	.4165	.8374	.0837	.2521	.4407	.5817	.5551	.1619	.1161	.0581

Elem	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.1672**	**4.171**	**.7333**	**.1243**	**.5989**	**.9207**
Stddev	.0030	.019	.0036	.0023	.0030	.0181
%RSD	1.805	.4647	.4895	1.854	.4971	1.971
#1	.1691	4.148	.7374	.1259	.6022	.9304
#2	.1688	4.180	.7306	.1253	.5965	.9320
#3	.1637	4.184	.7321	.1217	.5980	.8998

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7812.0**	**37246.**	**6375.6**
Stddev	136.4	187.	48.0
%RSD	1.7460	.50290	.75212
#1	7733.3	37037.	6421.2
#2	7733.2	37397.	6325.6
#3	7969.5	37305.	6380.1

Sample Name: Std 3 25 Fe K Na Si Acquired: 12/6/2018 8:10:17 Type: Cal
Method: Trace 6_E200.7_SW6010(v116) Mode: IR Corr. Factor: 1.000000
User: mc Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Al3961	Fe2599	K_7664	Na5895	Si2124
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2.300**	**2.044**	**1.784**	**5.870**	**1.458**
Stddev	.016	.017	.010	.039	.033
%RSD	.6919	.8219	.5411	.6617	2.293
#1	2.314	2.059	1.794	5.907	1.477
#2	2.304	2.047	1.784	5.874	1.477
#3	2.282	2.026	1.774	5.829	1.419

Int. Std.	Y_2243	Y_3710
Units	Cts/S	Cts/S
Avg	**7791.2**	**6385.2**
Stddev	148.8	37.4
%RSD	1.9104	.58625
#1	7702.9	6342.1
#2	7707.7	6409.9
#3	7963.1	6403.5

Sample Name: Std 2 10 Ca Mg Si Acquired: 12/6/2018 8:15:18 Type: Cal
Method: Trace 6_E200.7_SW6010(v116) Mode: IR Corr. Factor: 1.000000
User: mc Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ca3158	Mg2790	Si2124
Units	Cts/S	Cts/S	Cts/S
Avg	.4669	2.592	.6960
Stddev	.0005	.009	.0214
%RSD	.1080	.3316	3.079
#1	.4674	2.586	.7069
#2	.4669	2.588	.7098
#3	.4663	2.602	.6713

Int. Std.	Y_2243	Y_3710
Units	Cts/S	Cts/S
Avg	7835.0	6438.4
Stddev	203.0	19.0
%RSD	2.5913	.29446
#1	7721.3	6448.6
#2	7714.3	6450.0
#3	8069.4	6416.5

Sample Name: ICV Acquired: 12/6/2018 8:20:20 Type: QC
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: mc Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4975**	W **.5298**	**.5088**	**.5030**	**.5151**	**.4952**	**-.0023**	**.5163**	**.4977**	**.5006**
Stddev	.0023	.0051	.0143	.0156	.0009	.0014	.0004	.0094	.0152	.0148
%RSD	.4672	.9626	2.806	3.108	.1751	.2877	17.16	1.812	3.057	2.965
#1	.5001	.5285	.5200	.5152	.5160	.4968	-.0022	.5270	.5099	.5122
#2	.4963	.5254	.5137	.5085	.5142	.4941	-.0019	.5119	.5027	.5058
#3	.4959	.5354	.4927	.4854	.5152	.4947	-.0027	.5099	.4807	.4839
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit		.5274								
Low Limit		.4726								

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5074**	**.5041**	**.5175**	W **4.719**	**.5078**	**.5142**	**.4976**	**9.755**	**.4959**	**.5150**
Stddev	.0013	.0019	.0033	.035	.0027	.0028	.0140	.005	.0149	.0150
%RSD	.2584	.3780	.6442	.7389	.5254	.5349	2.805	.0526	3.001	2.904
#1	.5084	.5063	.5157	4.748	.5054	.5166	.5083	9.753	.5080	.5276
#2	.5059	.5033	.5214	4.680	.5106	.5112	.5026	9.751	.5005	.5188
#3	.5078	.5027	.5155	4.728	.5073	.5148	.4818	9.760	.4793	.4985
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				5.274						
Low Limit				4.726						

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5090**	**.5038**	**5.142**	**.4936**	**.4941**	**.4940**	**.4997**	**.5168**	**.4938**
Stddev	.0151	.0141	.145	.0148	.0012	.0016	.0151	.0019	.0157
%RSD	2.962	2.800	2.821	3.005	.2378	.3227	3.017	.3614	3.180
#1	.5215	.5150	5.256	.5053	.4955	.4951	.5121	.5190	.5065
#2	.5132	.5084	5.192	.4986	.4933	.4921	.5040	.5158	.4987
#3	.4922	.4879	4.979	.4769	.4936	.4947	.4829	.5157	.4762
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7834.2**	**37075.**	**6427.4**
Stddev	186.2	114.	17.5
%RSD	2.3763	.30777	.27261
#1	7689.1	36949.	6447.4
#2	7769.2	37171.	6414.7
#3	8044.1	37106.	6420.1

Sample Name: ICB Acquired: 12/6/2018 8:25:11 Type: QC
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: mc Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**.0048**	**-.0010**	**.0003**	**.0002**	**.0001**	**-.0003**	**.0068**	**.0001**	**-.0000**
Stddev	.0003	.0046	.0006	.0003	.0001	.0000	.0003	.0075	.0000	.0001
%RSD	952.8	96.35	60.89	79.77	48.91	30.19	102.6	111.2	73.19	1139.
#1	.0001	.0007	-.0016	.0001	.0003	.0001	-.0006	-.0003	.0001	-.0001
#2	-.0004	.0040	-.0004	.0006	.0003	.0001	.0000	.0059	.0001	.0001
#3	.0002	.0098	-.0011	.0003	.0001	.0001	-.0004	.0147	.0000	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0000**	**-.0006**	**.0104**	**.0037**	**.0002**	**.0009**	**.0053**	**.0002**	**-.0005**
Stddev	.0001	.0001	.0021	.0181	.0024	.0002	.0003	.0051	.0001	.0004
%RSD	60.88	245.8	374.0	174.3	65.56	145.8	38.02	94.93	67.37	87.32
#1	.0002	.0002	-.0009	.0052	.0064	.0004	.0012	.0104	.0001	-.0010
#2	.0001	.0001	.0017	-.0046	.0021	.0001	.0010	.0052	.0001	-.0001
#3	.0001	-.0001	-.0025	.0305	.0025	-.0000	.0005	.0003	.0003	-.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0003**	**.0011**	**-.0137**	**.0028**	**.0001**	**.0003**	**.0000**	**-.0000**	**.0003**
Stddev	.0007	.0006	.0004	.0008	.0000	.0002	.0002	.0002	.0001
%RSD	254.3	56.15	2.931	26.46	28.82	62.60	1521.	4589.	20.44
#1	.0003	.0018	-.0136	.0035	.0002	.0005	.0001	.0001	.0002
#2	-.0001	.0010	-.0133	.0030	.0002	.0001	-.0002	-.0002	.0003
#3	-.0010	.0005	-.0141	.0020	.0001	.0004	.0001	.0001	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7972.5**	**37394.**	**6372.6**
Stddev	337.8	131.	41.3
%RSD	4.2375	.34928	.64747
#1	7784.7	37294.	6327.8
#2	7770.4	37346.	6409.1
#3	8362.5	37542.	6380.8

Sample Name: ICV Acquired: 12/6/2018 8:33:40 Type: QC
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: mc Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4912**	W **.5286**	**.5118**	**.5030**	**.5155**	**.4921**	**-.0026**	**.5043**	**.4981**	**.5004**
Stddev	.0031	.0063	.0124	.0114	.0018	.0029	.0005	.0044	.0122	.0115
%RSD	.6222	1.190	2.430	2.275	.3530	.5928	20.59	.8767	2.446	2.299
#1	.4930	.5223	.5197	.5095	.5156	.4926	-.0031	.5051	.5049	.5069
#2	.4930	.5348	.5183	.5097	.5137	.4890	-.0020	.5083	.5054	.5073
#3	.4877	.5288	.4975	.4898	.5173	.4948	-.0026	.4995	.4841	.4871
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit		.5274								
Low Limit		.4726								

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5089**	**.5041**	**.5047**	W **4.655**	**.5095**	**.5054**	**.4957**	**9.647**	**.4964**	**.5146**
Stddev	.0007	.0019	.0072	.025	.0044	.0034	.0112	.045	.0116	.0121
%RSD	.1286	.3793	1.420	.5260	.8709	.6782	2.253	.4681	2.338	2.347
#1	.5096	.5054	.5084	4.652	.5131	.5057	.5013	9.669	.5029	.5201
#2	.5089	.5050	.4965	4.633	.5045	.5019	.5029	9.595	.5033	.5229
#3	.5083	.5019	.5093	4.682	.5109	.5087	.4828	9.677	.4830	.5008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				5.274						
Low Limit				4.726						

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5069**	**.5065**	**5.123**	F **.5585**	**.4865**	**.4906**	**.4997**	**.5117**	**.4935**
Stddev	.0120	.0136	.118	.0126	.0027	.0015	.0115	.0008	.0117
%RSD	2.360	2.689	2.311	2.261	.5471	.3085	2.309	.1541	2.368
#1	.5132	.5143	5.190	.5638	.4871	.4915	.5058	.5126	.5001
#2	.5145	.5144	5.193	.5676	.4835	.4915	.5069	.5116	.5005
#3	.4931	.4908	4.986	.5441	.4887	.4889	.4864	.5110	.4800
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.5524					
Low Limit				.4476					

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7852.9**	**37221.**	**6444.9**
Stddev	160.2	85.	20.1
%RSD	2.0397	.22904	.31162
#1	7750.0	37264.	6448.2
#2	7771.2	37123.	6463.2
#3	8037.4	37277.	6423.4

Sample Name: ICB Acquired: 12/6/2018 8:38:31 Type: QC
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: mc Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0100**	**-.0007**	**.0006**	**.0003**	**.0001**	**-.0005**	**.0092**	**.0001**	**.0001**
Stddev	.0000	.0056	.0006	.0002	.0001	.0000	.0004	.0034	.0001	.0001
%RSD	25.57	56.45	82.86	28.91	28.24	34.64	77.47	36.64	69.21	222.3
#1	.0002	.0055	-.0001	.0007	.0003	.0001	-.0001	.0077	.0001	-.0001
#2	.0002	.0163	-.0012	.0007	.0002	.0001	-.0006	.0069	.0001	.0001
#3	.0001	.0081	-.0009	.0004	.0004	.0001	-.0008	.0131	.0000	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0005**	**-.0006**	**-.0031**	**.0023**	**.0001**	**.0011**	**.0086**	**.0002**	**.0001**
Stddev	.0002	.0003	.0025	.0176	.0026	.0005	.0004	.0053	.0001	.0003
%RSD	62.03	55.13	425.8	559.8	116.2	347.4	36.77	61.57	50.39	409.0
#1	.0001	.0002	-.0013	-.0011	.0007	-.0004	.0015	.0120	.0003	.0002
#2	.0002	.0007	-.0026	-.0217	.0008	.0006	.0011	.0025	.0001	-.0003
#3	.0005	.0004	.0022	.0133	.0053	.0002	.0007	.0113	.0003	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0006**	**-.0000**	**-.0147**	**.0034**	**.0000**	**.0001**	**.0004**	**.0000**	**.0004**
Stddev	.0006	.0014	.0011	.0010	.0002	.0003	.0003	.0001	.0005
%RSD	115.9	3627.	7.557	30.74	544.1	268.8	69.02	499.3	106.2
#1	.0002	-.0016	-.0138	.0044	-.0001	-.0001	.0002	.0001	.0002
#2	-.0008	.0007	-.0143	.0034	-.0000	.0004	.0002	-.0000	.0010
#3	-.0010	.0008	-.0159	.0023	.0002	-.0000	.0007	-.0000	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7931.6**	**37236.**	**6384.4**
Stddev	310.7	177.	12.0
%RSD	3.9174	.47665	.18798
#1	7740.9	37381.	6397.7
#2	7763.7	37038.	6381.0
#3	8290.1	37290.	6374.5

Sample Name: 0.005 Acquired: 12/6/2018 8:43:34 Type: QC
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: mc Custom ID1: Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W .0038	.0038	.0047	.0045	.0053	.0049	.0049	.0094	.0049	.0049
Stddev	.0004	.0039	.0004	.0004	.0002	.0001	.0007	.0030	.0001	.0002
%RSD	9.725	104.0	9.281	9.209	3.769	1.899	14.62	31.60	2.982	5.054
#1	.0041	.0012	.0050	.0048	.0054	.0048	.0043	.0060	.0050	.0050
#2	.0034	.0083	.0042	.0046	.0051	.0049	.0057	.0116	.0050	.0050
#3	.0038	.0018	.0050	.0040	.0054	.0050	.0047	.0107	.0047	.0046
Check ?	Chk Warn	None	Chk Pass	None	None	Chk Pass	None	None	Chk Pass	None
High Limit	.0060									
Low Limit	.0040									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0049	.0054	.0022	.0587	.0077	.0049	.0050	.0120	.0052	.0047
Stddev	.0002	.0002	.0008	.0112	.0015	.0002	.0003	.0032	.0001	.0006
%RSD	4.174	3.060	36.00	19.04	19.69	3.674	5.693	26.63	1.381	12.90
#1	.0048	.0054	.0030	.0673	.0063	.0050	.0052	.0119	.0053	.0041
#2	.0047	.0053	.0023	.0460	.0093	.0047	.0051	.0151	.0052	.0053
#3	.0051	.0056	.0014	.0627	.0075	.0049	.0047	.0088	.0052	.0048
Check ?	None	None	None	None	None	None	None	None	None	None
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0026	.0043	-.0131	.0054	.0048	.0045	.0053	.0047	.0049
Stddev	.0004	.0007	.0007	.0003	.0001	.0003	.0007	.0000	.0001
%RSD	14.64	15.50	5.095	6.218	3.119	6.977	13.25	1.055	1.747
#1	.0030	.0036	-.0127	.0056	.0047	.0042	.0055	.0046	.0049
#2	.0027	.0043	-.0128	.0055	.0047	.0044	.0059	.0047	.0050
#3	.0022	.0049	-.0139	.0050	.0049	.0048	.0046	.0046	.0048
Check ?	None	None	None	None	None	None	None	None	None
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	7892.1	37597.	6443.3
Stddev	196.6	187.	22.4
%RSD	2.4913	.49865	.34703
#1	7784.5	37461.	6452.8
#2	7772.7	37811.	6459.2
#3	8119.0	37519.	6417.7

Sample Name: 0.01 Acquired: 12/6/2018 8:48:34 Type: QC
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: LC Custom ID1: Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0095**	**.0188**	**.0083**	**.0098**	**.0104**	**.0099**	**.0097**	**.0250**	**.0100**	**.0101**
Stddev	.0004	.0108	.0008	.0004	.0002	.0001	.0005	.0034	.0003	.0003
%RSD	4.511	57.40	9.089	4.402	1.805	.5441	5.376	13.75	3.022	3.101
#1	.0092	.0209	.0088	.0100	.0106	.0100	.0103	.0286	.0101	.0102
#2	.0092	.0283	.0086	.0101	.0104	.0099	.0094	.0248	.0102	.0102
#3	.0100	.0071	.0074	.0093	.0103	.0099	.0093	.0217	.0096	.0097
Check ?	None	None	Chk Pass	Chk Pass	Chk Pass	None	None	None	None	Chk Pass
Value										
Range										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0107**	**.0105**	**.0039**	**.0932**	**.0107**	**.0100**	**.0097**	**.0124**	**.0100**	**.0090**
Stddev	.0000	.0002	.0032	.0143	.0021	.0007	.0003	.0030	.0003	.0003
%RSD	.4359	2.020	83.68	15.32	19.38	6.630	3.421	23.95	3.032	3.565
#1	.0107	.0103	.0048	.1096	.0110	.0105	.0098	.0090	.0102	.0091
#2	.0106	.0104	.0066	.0836	.0085	.0093	.0100	.0139	.0102	.0093
#3	.0107	.0107	.0003	.0863	.0126	.0103	.0093	.0143	.0097	.0087
Check ?	Chk Pass	Chk Pass	None	None	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
Value										
Range										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0075**	**.0100**	**-.0138**	**.0087**	**.0099**	**.0094**	**.0097**	**.0095**	**.0102**
Stddev	.0003	.0006	.0011	.0005	.0001	.0001	.0010	.0002	.0004
%RSD	4.449	5.591	7.806	5.975	1.199	1.233	9.881	2.386	3.452
#1	.0078	.0095	-.0134	.0093	.0100	.0095	.0102	.0097	.0104
#2	.0076	.0106	-.0130	.0087	.0097	.0093	.0102	.0096	.0104
#3	.0072	.0100	-.0150	.0082	.0099	.0095	.0086	.0092	.0098
Check ?	None	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value									
Range									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7877.6**	**37632.**	**6480.8**
Stddev	168.2	52.	56.8
%RSD	2.1346	.13869	.87706
#1	7771.8	37643.	6416.7
#2	7789.6	37575.	6525.1
#3	8071.6	37677.	6500.6

Sample Name: 0.05 Acquired: 12/6/2018 8:53:34 Type: QC
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: LC Custom ID1: Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0481**	**.0536**	**.0487**	**.0494**	**.0510**	**.0492**	**.0487**	**.0545**	**.0495**	**.0501**
Stddev	.0005	.0067	.0010	.0021	.0004	.0007	.0016	.0049	.0015	.0017
%RSD	1.078	12.51	2.152	4.209	.7398	1.413	3.337	9.062	3.047	3.370
#1	.0483	.0548	.0499	.0509	.0506	.0487	.0501	.0544	.0504	.0511
#2	.0485	.0463	.0483	.0504	.0514	.0500	.0490	.0594	.0503	.0510
#3	.0475	.0596	.0478	.0471	.0511	.0490	.0469	.0496	.0477	.0481
Check ?	None	Chk Pass	None	None	None	None	None	Chk Pass	None	None
Value										
Range										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0512**	**.0511**	**.0469**	**2.214**	**.0521**	**.0495**	**.0497**	**1.917**	**.0496**	**.0495**
Stddev	.0001	.0004	.0019	.062	.0018	.0011	.0014	.017	.0018	.0021
%RSD	.2712	.7514	4.028	2.787	3.534	2.244	2.789	.9075	3.717	4.180
#1	.0511	.0510	.0448	2.178	.0523	.0485	.0507	1.901	.0509	.0503
#2	.0514	.0515	.0474	2.285	.0538	.0507	.0504	1.935	.0505	.0511
#3	.0511	.0507	.0485	2.178	.0501	.0492	.0482	1.913	.0475	.0472
Check ?	None	None	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass	None	None
Value										
Range										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0466**	**.0497**	**.4792**	**.0472**	**.0495**	**.0491**	**.0496**	**.0492**	**.0496**
Stddev	.0014	.0022	.0147	.0013	.0006	.0004	.0019	.0003	.0016
%RSD	2.967	4.360	3.068	2.808	1.310	.8210	3.789	.5693	3.242
#1	.0480	.0506	.4884	.0472	.0490	.0493	.0499	.0495	.0507
#2	.0467	.0512	.4870	.0485	.0502	.0493	.0513	.0489	.0503
#3	.0452	.0472	.4623	.0459	.0493	.0486	.0476	.0493	.0477
Check ?	Chk Pass	None	Chk Pass	None	None	None	None	None	Chk Pass
Value									
Range									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7848.5**	**37361.**	**6436.0**
Stddev	205.3	173.	75.3
%RSD	2.6157	.46425	1.1700
#1	7711.2	37261.	6503.3
#2	7749.8	37261.	6354.7
#3	8084.5	37562.	6450.0

Sample Name: IPC Acquired: 12/6/2018 8:58:27 Type: QC
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: LC Custom ID1: Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0027**	**.0037**	**-.0000**	**.0002**	**.0001**	**-.0014**	**.0073**	**-.0002**	**.0008**
Stddev	.0003	.0060	.0009	.0002	.0001	.0000	.0002	.0057	.0000	.0000
%RSD	98.57	226.2	24.61	28580.	72.66	63.30	17.34	78.75	16.99	5.340
#1	.0003	.0055	.0042	.0003	.0003	.0001	-.0012	.0007	-.0002	.0008
#2	.0005	-.0042	.0026	-.0001	.0001	.0000	-.0014	.0101	-.0001	.0007
#3	.0000	.0068	.0042	-.0002	.0001	.0001	-.0017	.0110	-.0002	.0008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**10.04**	**-.0010**	**.0004**	**.0081**	**.0215**	**9.641**	**-.0027**	**.0063**	**-.0006**	**-.0005**
Stddev	.08	.0001	.0022	.0144	.0018	.039	.0001	.0093	.0001	.0006
%RSD	.7539	11.58	565.0	177.5	8.198	.3991	4.045	146.5	13.32	120.3
#1	10.10	-.0009	.0024	.0211	.0202	9.598	-.0026	-.0039	-.0006	.0002
#2	10.07	-.0011	-.0020	.0104	.0235	9.670	-.0027	.0089	-.0006	-.0011
#3	9.956	-.0011	.0008	-.0073	.0209	9.656	-.0029	.0141	-.0005	-.0007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0391**	**.0012**	**-.0088**	**-.0010**	**-.0001**	**.0009**	**.0002**	**9.831**	**-.0007**
Stddev	.0044	.0018	.0002	.0006	.0000	.0004	.0007	.079	.0000
%RSD	11.25	154.9	2.071	60.50	63.26	39.89	304.0	.8006	4.241
#1	.0419	.0007	-.0087	-.0004	-.0000	.0005	.0010	9.885	-.0007
#2	.0415	-.0003	-.0086	-.0009	-.0001	.0013	-.0000	9.868	-.0007
#3	.0341	.0031	-.0090	-.0016	-.0001	.0009	-.0003	9.741	-.0007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7804.6**	**37477.**	**6421.4**
Stddev	179.5	351.	46.3
%RSD	2.3006	.93658	.72179
#1	7713.6	37258.	6467.9
#2	7688.7	37292.	6421.2
#3	8011.4	37882.	6375.2

Sample Name: ICSA Acquired: 12/6/2018 9:03:27 Type: QC
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: LC Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	275.5	-.0021	.0062	.0006	.0005	.0097	256.7	.0009	.0000
Stddev	.0003	1.1	.0021	.0005	.0001	.0000	.0006	1.2	.0000	.0001
%RSD	125.6	.4062	95.66	8.068	21.11	7.728	5.805	.4589	3.656	362.9
#1	.0006	274.5	-.0044	.0067	.0006	.0005	.0098	255.3	.0009	.0001
#2	.0002	275.2	-.0004	.0062	.0008	.0005	.0102	257.2	.0009	.0001
#3	-.0001	276.7	-.0016	.0057	.0005	.0005	.0091	257.5	.0009	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0026	.0010	100.1	-.0364	261.5	.0005	-.0013	.0818	.0036	-.0125
Stddev	.0001	.0001	.3	.0145	.9	.0006	.0001	.0057	.0002	.0038
%RSD	3.436	9.808	.2800	39.71	.3592	112.8	8.748	6.998	5.742	29.95
#1	.0026	.0009	99.83	-.0531	261.4	-.0001	-.0014	.0762	.0038	-.0096
#2	.0027	.0010	100.1	-.0292	262.5	.0006	-.0014	.0877	.0034	-.0112
#3	.0025	.0011	100.4	-.0270	260.6	.0010	-.0012	.0815	.0036	-.0168
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0047	.0007	-.0106	.0010	.0051	.0002	-.0004	.0060	.0036
Stddev	.0008	.0011	.0010	.0012	.0002	.0001	.0007	.0004	.0000
%RSD	16.44	150.5	9.823	115.9	3.254	39.22	174.2	6.030	1.068
#1	.0043	.0011	-.0097	.0018	.0050	.0001	-.0012	.0057	.0037
#2	.0056	-.0005	-.0102	.0016	.0053	.0002	-.0003	.0064	.0036
#3	.0042	.0016	-.0117	-.0003	.0051	.0001	.0002	.0061	.0036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	7119.6	34015.	6249.5
Stddev	211.3	9.	29.5
%RSD	2.9674	.02684	.47183
#1	7010.1	34025.	6282.8
#2	6985.5	34007.	6226.5
#3	7363.1	34012.	6239.4

Sample Name: XICSAB Acquired: 12/6/2018 9:08:32 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: LC Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**.0216**	**.0010**	**-.0016**	**-.0004**	**.0000**	**-.0025**	**-.0054**	**-.0001**	**-.0000**
Stddev	.0001	.0078	.0001	.0001	.0001	.0000	.0002	.0039	.0000	.0000
%RSD	20.16	36.17	7.566	4.973	14.40	85.01	6.225	72.16	1.660	100.3
#1	.0004	.0306	.0010	-.0016	-.0005	.0000	-.0024	-.0035	-.0001	-.0001
#2	.0004	.0159	.0011	-.0016	-.0004	.0000	-.0027	-.0099	-.0001	-.0000
#3	.0006	.0185	.0009	-.0015	-.0004	.0000	-.0024	-.0029	-.0001	-.0000

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0011**	**-.0061**	**.0049**	**.0763**	**.0099**	**.0005**	**-.0011**	**.0187**	**.0007**	**.0004**
Stddev	.0001	.0001	.0044	.0061	.0020	.0002	.0000	.0001	.0000	.0002
%RSD	12.65	1.071	89.49	8.010	19.69	45.79	3.350	.6076	5.366	42.62
#1	.0011	-.0060	.0100	.0831	.0095	.0003	-.0011	.0186	.0007	.0004
#2	.0012	-.0061	.0021	.0746	.0082	.0007	-.0011	.0186	.0007	.0003
#3	.0010	-.0060	.0026	.0712	.0121	.0005	-.0011	.0188	.0007	.0006

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0022**	**-.0022**	**-.0320**	**-.0013**	**.0007**	**-.0008**	**.0013**	**-.0006**	**.0005**
Stddev	.0001	.0003	.0002	.0001	.0000	.0000	.0003	.0000	.0001
%RSD	3.337	13.37	.7056	6.171	7.097	4.949	22.42	5.336	18.61
#1	-.0021	-.0024	-.0319	-.0013	.0007	-.0008	.0014	-.0006	.0004
#2	-.0022	-.0018	-.0319	-.0014	.0007	-.0009	.0009	-.0006	.0005
#3	-.0022	-.0023	-.0323	-.0012	.0006	-.0008	.0014	-.0006	.0006

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**31522.**	**137120.**	**20016.**
Stddev	18.	1585.	486.
%RSD	.05644	1.1556	2.4264
#1	31538.	135390.	19458.
#2	31524.	138510.	20341.
#3	31503.	137450.	20249.

Sample Name: CCV Acquired: 12/6/2018 9:15:26 Type: QC
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: LC Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5024**	**.5405**	**.5211**	**.5159**	**.5263**	**.4981**	**-.0035**	**.5066**	**.5043**	**.5080**
Stddev	.0007	.0091	.0102	.0097	.0006	.0007	.0003	.0133	.0090	.0094
%RSD	.1378	1.687	1.960	1.887	.1082	.1479	8.087	2.628	1.782	1.859
#1	.5032	.5390	.5277	.5221	.5262	.4979	-.0036	.4983	.5098	.5139
#2	.5021	.5322	.5263	.5209	.5258	.4976	-.0038	.5219	.5091	.5131
#3	.5020	.5503	.5093	.5047	.5269	.4990	-.0032	.4995	.4939	.4971
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5166**	**.5180**	**.5200**	**4.732**	**.5174**	**.5107**	**.5037**	**9.843**	**.5045**	**.5241**
Stddev	.0023	.0013	.0020	.039	.0028	.0017	.0089	.026	.0084	.0101
%RSD	.4380	.2524	.3774	.8172	.5336	.3317	1.765	.2602	1.655	1.922
#1	.5182	.5189	.5189	4.689	.5206	.5124	.5097	9.864	.5099	.5311
#2	.5140	.5187	.5189	4.743	.5163	.5090	.5079	9.814	.5087	.5287
#3	.5176	.5165	.5223	4.765	.5154	.5108	.4935	9.850	.4949	.5126
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5189**	**.5199**	**5.241**	F **.5677**	**.4945**	**.4993**	**.5097**	**.5210**	**.4982**
Stddev	.0101	.0086	.091	.0093	.0014	.0008	.0081	.0018	.0088
%RSD	1.952	1.659	1.734	1.634	.2759	.1601	1.591	.3501	1.776
#1	.5266	.5267	5.303	.5729	.4944	.4997	.5157	.5229	.5037
#2	.5227	.5228	5.283	.5731	.4931	.4984	.5128	.5193	.5030
#3	.5074	.5102	5.136	.5570	.4958	.4999	.5004	.5208	.4880
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.5524					
Low Limit				.4476					

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7700.6**	**36673.**	**6431.5**
Stddev	123.8	42.	24.9
%RSD	1.6080	.11431	.38698
#1	7613.3	36631.	6406.9
#2	7646.1	36715.	6431.1
#3	7842.3	36674.	6456.7

Sample Name: CCB Acquired: 12/6/2018 9:20:17 Type: QC
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: LC Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0105**	**.0004**	**.0004**	**.0003**	**.0001**	**.0001**	**.0094**	**.0001**	**.0000**
Stddev	.0002	.0054	.0003	.0005	.0000	.0001	.0005	.0056	.0001	.0000
%RSD	81.01	51.19	66.24	129.5	12.49	88.07	737.5	59.51	88.00	217.2
#1	.0002	.0148	.0004	.0009	.0003	.0000	.0003	.0109	.0002	-.0000
#2	.0001	.0121	.0001	.0003	.0003	.0001	-.0005	.0032	.0001	.0000
#3	.0004	.0045	.0006	-.0001	.0003	.0002	.0004	.0141	.0000	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**.0012**	**.0017**	**-.0227**	**.0093**	**.0001**	**.0010**	**.0111**	**.0001**	**.0004**
Stddev	.0002	.0001	.0039	.0331	.0031	.0001	.0003	.0017	.0002	.0009
%RSD	36.58	12.38	230.9	146.0	33.47	115.5	25.52	15.41	176.6	226.2
#1	.0007	.0011	-.0025	-.0459	.0057	-.0000	.0012	.0112	.0000	-.0000
#2	.0003	.0012	.0053	.0152	.0110	.0002	.0011	.0128	-.0000	-.0002
#3	.0005	.0013	.0023	-.0374	.0113	.0002	.0007	.0094	.0004	.0014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0008**	**.0008**	**-.0150**	**.0022**	**.0001**	**-.0001**	**-.0001**	**.0001**	**.0001**
Stddev	.0005	.0010	.0009	.0007	.0001	.0004	.0004	.0002	.0000
%RSD	62.79	135.0	6.210	30.79	61.00	330.0	283.1	309.5	36.47
#1	-.0009	.0020	-.0140	.0030	.0002	.0003	.0003	-.0000	.0001
#2	-.0012	.0002	-.0152	.0019	.0002	-.0002	-.0005	-.0000	.0002
#3	-.0002	.0001	-.0158	.0018	.0000	-.0005	-.0002	.0003	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7853.6**	**36869.**	**6462.8**
Stddev	326.8	183.	18.0
%RSD	4.1617	.49585	.27874
#1	7659.3	36663.	6482.4
#2	7670.6	37013.	6446.9
#3	8231.0	36930.	6459.3

Sample Name: 0.005 Acquired: 12/6/2018 9:41:54 Type: QC
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: LC Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	W .0038	.0128	F .0031	.0039	.0043	W .0038	.0040	.0100	.0041	.0042
Stddev	.0003	.0042	.0007	.0006	.0000	.0002	.0007	.0087	.0001	.0002
%RSD	7.689	32.97	22.14	14.51	.9340	4.287	16.97	86.61	3.331	3.956
#1	.0039	.0080	.0027	.0036	.0044	.0037	.0048	.0194	.0042	.0043
#2	.0040	.0144	.0039	.0046	.0043	.0037	.0035	.0024	.0042	.0044
#3	.0034	.0159	.0028	.0036	.0043	.0040	.0038	.0081	.0040	.0041
Check ?	Chk Warn	None	Chk Fail	None	None	Chk Warn	None	None	Chk Pass	None
High Limit	.0060		.0065			.0060				
Low Limit	.0040		.0035			.0040				

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0044	.0054	.0067	.1788	.0076	.0042	.0040	.1594	.0044	.0030
Stddev	.0005	.0001	.0010	.0219	.0029	.0004	.0003	.0082	.0002	.0004
%RSD	12.31	2.305	14.33	12.24	37.74	10.73	7.627	5.152	3.955	13.86
#1	.0038	.0055	.0077	.1538	.0109	.0037	.0041	.1501	.0045	.0034
#2	.0046	.0053	.0059	.1883	.0067	.0046	.0043	.1624	.0042	.0030
#3	.0049	.0053	.0063	.1943	.0054	.0043	.0037	.1657	.0045	.0026
Check ?	None	None	None	None	None	None	None	None	None	None
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0019	.0037	.0258	.0037	.0039	.0036	.0043	.0037	.0044
Stddev	.0010	.0008	.0023	.0004	.0002	.0002	.0007	.0001	.0002
%RSD	55.55	20.30	8.914	11.33	3.926	5.746	17.33	2.295	4.257
#1	.0026	.0037	.0271	.0038	.0037	.0034	.0043	.0036	.0044
#2	.0007	.0044	.0272	.0033	.0040	.0038	.0035	.0038	.0046
#3	.0022	.0029	.0232	.0041	.0039	.0037	.0050	.0037	.0042
Check ?	None	None	None	None	None	None	None	None	None
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	7781.9	36866.	6392.2
Stddev	265.1	83.	90.5
%RSD	3.4065	.22435	1.4160
#1	7620.8	36780.	6479.6
#2	7637.1	36945.	6398.2
#3	8087.9	36875.	6298.9

Sample Name: CCV Acquired: 12/6/2018 10:33:31 Type: QC
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: LC Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4885**	**.5100**	**.5189**	**.5116**	**.5178**	**.4817**	**-.0034**	**.4856**	**.4989**	**.5029**
Stddev	.0031	.0077	.0078	.0080	.0023	.0024	.0004	.0102	.0076	.0079
%RSD	.6391	1.503	1.509	1.558	.4374	.4900	12.58	2.098	1.523	1.571
#1	.4863	.5133	.5237	.5155	.5176	.4817	-.0030	.4849	.5034	.5077
#2	.4871	.5155	.5231	.5169	.5201	.4840	-.0036	.4961	.5031	.5072
#3	.4920	.5012	.5099	.5025	.5156	.4793	-.0038	.4758	.4901	.4937
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5118**	**.5118**	**.4888**	**4.571**	**.5073**	**.4837**	**.4985**	**9.668**	**.4995**	**.5181**
Stddev	.0023	.0022	.0052	.034	.0020	.0041	.0071	.051	.0082	.0074
%RSD	.4541	.4213	1.068	.7436	.3924	.8409	1.416	.5239	1.638	1.430
#1	.5094	.5107	.4892	4.561	.5059	.4817	.5021	9.671	.5040	.5232
#2	.5121	.5105	.4938	4.609	.5096	.4883	.5030	9.717	.5044	.5214
#3	.5140	.5143	.4834	4.543	.5064	.4810	.4904	9.616	.4900	.5096
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5141**	**.5150**	**5.193**	F **.5586**	**.4759**	**.4879**	**.5053**	**.5079**	**.4916**
Stddev	.0090	.0086	.082	.0082	.0026	.0037	.0073	.0035	.0076
%RSD	1.757	1.673	1.569	1.476	.5517	.7539	1.454	.6968	1.538
#1	.5202	.5213	5.244	.5624	.4758	.4858	.5109	.5051	.4961
#2	.5185	.5185	5.235	.5643	.4786	.4859	.5080	.5067	.4958
#3	.5037	.5052	5.099	.5492	.4733	.4922	.4970	.5119	.4828
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.5524					
Low Limit				.4476					

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7713.1**	**36940.**	**6534.4**
Stddev	120.0	97.	38.9
%RSD	1.5561	.26361	.59457
#1	7635.5	37006.	6534.4
#2	7652.4	36986.	6495.6
#3	7851.3	36828.	6573.3

Sample Name: CCB Acquired: 12/6/2018 10:38:21 Type: QC
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: LC Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0089**	**-.0009**	**.0001**	**.0002**	**.0001**	**-.0008**	**.0076**	**.0001**	**.0000**
Stddev	.0002	.0088	.0012	.0001	.0002	.0001	.0003	.0023	.0000	.0001
%RSD	66.77	98.74	137.6	116.5	67.78	37.30	41.27	30.13	20.03	3556.
#1	.0005	-.0012	-.0010	-.0000	.0002	.0002	-.0008	.0085	.0001	.0000
#2	.0002	.0145	-.0020	.0002	.0004	.0001	-.0012	.0093	.0001	-.0001
#3	.0001	.0135	.0004	.0001	.0001	.0001	-.0005	.0050	.0001	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**.0013**	**-.0011**	**.0311**	**.0033**	**.0001**	**.0010**	**.0098**	**.0002**	**.0001**
Stddev	.0001	.0003	.0013	.0084	.0015	.0002	.0003	.0081	.0002	.0007
%RSD	39.66	24.88	119.3	27.09	45.57	327.2	32.80	81.80	108.2	1046.
#1	.0003	.0012	-.0023	.0246	.0037	.0001	.0014	.0143	.0003	.0006
#2	.0003	.0011	-.0011	.0406	.0046	.0003	.0010	.0006	-.0000	-.0007
#3	.0005	.0017	.0002	.0281	.0017	-.0002	.0007	.0147	.0004	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0014**	**-.0001**	**-.0158**	**.0025**	**-.0000**	**.0002**	**.0002**	**.0001**	**.0001**
Stddev	.0013	.0013	.0009	.0006	.0001	.0002	.0012	.0003	.0000
%RSD	92.22	1634.	5.470	22.15	311.4	93.42	760.8	169.7	25.43
#1	-.0001	-.0002	-.0149	.0030	.0001	.0004	.0009	.0001	.0001
#2	-.0015	.0012	-.0159	.0026	-.0001	-.0000	-.0013	.0004	.0001
#3	-.0027	-.0013	-.0167	.0019	-.0002	.0004	.0008	-.0001	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7893.1**	**37046.**	**6506.1**
Stddev	283.5	219.	64.9
%RSD	3.5913	.59144	.99722
#1	7710.7	36940.	6548.1
#2	7748.9	36901.	6538.9
#3	8219.7	37298.	6431.4

Sample Name: CCV Acquired: 12/6/2018 11:10:42 Type: QC
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: LC Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4830**	**.5167**	**.5156**	**.5083**	**.5181**	**.4828**	**-.0028**	**.4853**	**.4960**	**.5008**
Stddev	.0028	.0113	.0100	.0101	.0014	.0012	.0003	.0030	.0103	.0101
%RSD	.5768	2.177	1.941	1.984	.2710	.2510	9.655	.6172	2.079	2.010
#1	.4802	.5052	.5223	.5152	.5183	.4841	-.0031	.4882	.5028	.5075
#2	.4857	.5276	.5204	.5129	.5166	.4817	-.0026	.4854	.5010	.5056
#3	.4831	.5174	.5041	.4967	.5194	.4827	-.0028	.4822	.4841	.4892
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5101**	**.5092**	**.4891**	**4.606**	**.5101**	**.4866**	**.4965**	**9.684**	**.4957**	**.5167**
Stddev	.0024	.0016	.0019	.035	.0052	.0010	.0089	.023	.0096	.0122
%RSD	.4708	.3133	.3845	.7607	1.026	.2132	1.793	.2381	1.931	2.358
#1	.5074	.5075	.4897	4.616	.5155	.4877	.5027	9.702	.5022	.5256
#2	.5121	.5097	.4870	4.567	.5051	.4865	.5005	9.658	.5002	.5217
#3	.5109	.5105	.4906	4.635	.5096	.4856	.4863	9.691	.4847	.5028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5122**	**.5145**	**5.157**	F **.5542**	**.4783**	**.4818**	**.5024**	**.5049**	**.4899**
Stddev	.0090	.0097	.098	.0114	.0014	.0021	.0078	.0026	.0106
%RSD	1.758	1.876	1.896	2.060	.2886	.4278	1.553	.5089	2.172
#1	.5193	.5211	5.225	.5617	.4782	.4796	.5071	.5020	.4971
#2	.5153	.5190	5.200	.5600	.4769	.4837	.5067	.5069	.4949
#3	.5021	.5034	5.045	.5411	.4797	.4821	.4934	.5058	.4777
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.5524					
Low Limit				.4476					

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7744.2**	**37015.**	**6532.1**
Stddev	146.4	114.	20.6
%RSD	1.8909	.30854	.31555
#1	7649.0	37128.	6511.9
#2	7670.6	36900.	6531.4
#3	7912.8	37017.	6553.1

Sample Name: CCB Acquired: 12/6/2018 11:15:33 Type: QC
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: LC Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0008**	**.0104**	**-.0006**	**.0002**	**.0006**	**.0002**	**-.0000**	**.0094**	**.0002**	**.0002**
Stddev	.0003	.0032	.0005	.0002	.0001	.0000	.0005	.0052	.0000	.0001
%RSD	33.40	31.25	85.50	103.7	14.75	23.83	1474.	55.33	8.543	33.51
#1	-.0005	.0126	-.0011	.0001	.0006	.0002	-.0006	.0044	.0002	.0002
#2	-.0009	.0066	-.0006	.0004	.0006	.0001	.0004	.0090	.0002	.0003
#3	-.0010	.0119	-.0001	.0000	.0005	.0001	.0001	.0147	.0002	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0011**	**-.0000**	**.0240**	**.0043**	**-.0001**	**.0012**	**.0101**	**.0003**	**.0005**
Stddev	.0002	.0002	.0029	.0324	.0006	.0002	.0003	.0047	.0002	.0007
%RSD	79.20	15.19	6579.	135.0	14.07	184.0	26.20	45.97	59.80	142.7
#1	.0002	.0010	-.0013	-.0076	.0041	-.0003	.0015	.0152	.0002	.0009
#2	.0001	.0010	.0033	.0572	.0050	.0001	.0012	.0090	.0005	.0008
#3	.0004	.0013	-.0021	.0224	.0038	-.0002	.0009	.0061	.0002	-.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0013**	**.0010**	**-.0153**	**.0029**	**.0001**	**.0002**	**.0003**	**-.0002**	**.0002**
Stddev	.0008	.0015	.0014	.0015	.0000	.0003	.0008	.0004	.0001
%RSD	64.50	148.4	9.182	51.78	64.06	113.1	284.9	214.1	31.72
#1	-.0003	-.0001	-.0141	.0046	.0001	.0000	.0005	.0001	.0002
#2	-.0019	.0004	-.0150	.0022	.0000	.0005	-.0006	-.0007	.0001
#3	-.0017	.0026	-.0169	.0019	.0001	.0002	.0010	.0000	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7850.7**	**36881.**	**6509.1**
Stddev	348.3	131.	37.4
%RSD	4.4360	.35581	.57454
#1	7654.5	36787.	6544.5
#2	7644.9	36825.	6512.7
#3	8252.8	37031.	6470.0

Sample Name: WG1186068-1,T Acquired: 12/6/2018 11:20:38 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: LC Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0002**	**.0084**	**.0011**	**-.0014**	**.0004**	**-.0000**	**-.0013**	**.0089**	**-.0001**	**.0002**
Stddev	.0004	.0025	.0018	.0002	.0001	.0000	.0006	.0021	.0000	.0001
%RSD	189.3	30.34	161.7	13.75	25.67	2053.	42.97	23.97	27.19	51.71
#1	-.0001	.0113	.0026	-.0012	.0003	-.0000	-.0010	.0065	-.0001	.0001
#2	.0001	.0076	.0015	-.0015	.0004	.0000	-.0020	.0105	-.0001	.0003
#3	-.0006	.0064	-.0009	-.0016	.0004	.0000	-.0010	.0097	-.0001	.0002

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0008**	**-.0057**	**.0183**	**.0053**	**.0002**	**-.0005**	**.0257**	**.0006**	**-.0010**
Stddev	.0001	.0001	.0016	.0176	.0026	.0003	.0001	.0041	.0001	.0005
%RSD	36.88	18.41	28.65	96.58	48.42	186.0	14.33	15.99	17.07	45.73
#1	.0002	.0009	-.0067	.0112	.0023	-.0001	-.0005	.0219	.0007	-.0013
#2	.0003	.0006	-.0038	.0052	.0069	.0001	-.0006	.0252	.0005	-.0013
#3	.0002	.0007	-.0066	.0383	.0066	.0006	-.0006	.0301	.0006	-.0005

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0034**	**-.0004**	**-.0155**	**-.0004**	**.0001**	**-.0009**	**.0002**	**-.0002**	**.0001**
Stddev	.0007	.0012	.0005	.0003	.0000	.0002	.0002	.0002	.0001
%RSD	20.58	274.0	3.517	79.99	42.39	22.61	75.03	68.74	86.91
#1	-.0037	.0009	-.0151	-.0008	.0001	-.0011	.0000	-.0004	.0000
#2	-.0040	-.0012	-.0153	-.0002	.0001	-.0007	.0003	-.0001	.0001
#3	-.0027	-.0010	-.0161	-.0003	.0001	-.0008	.0003	-.0002	.0001

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7784.6**	**37506.**	**6510.7**
Stddev	98.8	769.	135.0
%RSD	1.2696	2.0495	2.0736
#1	7722.7	37146.	6354.9
#2	7732.6	38388.	6588.2
#3	7898.6	36983.	6589.2

Sample Name: L1849479-09,T Acquired: 12/6/2018 11:25:42 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: LC Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**.0092**	**-.0009**	**.0004**	**.0009**	**.0000**	**-.0014**	**.0344**	**-.0001**	**.0001**
Stddev	.0002	.0072	.0008	.0002	.0002	.0000	.0004	.0128	.0000	.0001
%RSD	3153.	77.94	87.94	48.24	21.88	399.7	25.43	37.30	12.44	85.78
#1	.0002	.0098	-.0006	.0004	.0010	-.0000	-.0018	.0492	-.0001	.0002
#2	-.0001	.0161	-.0019	.0006	.0009	-.0000	-.0010	.0258	-.0001	.0000
#3	-.0001	.0018	-.0004	.0002	.0007	.0000	-.0015	.0283	-.0001	.0002

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**.0029**	**-.0015**	**.0178**	**.0095**	**.0003**	**-.0006**	**.1058**	**.0004**	**-.0000**
Stddev	.0002	.0002	.0037	.0249	.0021	.0005	.0002	.0068	.0000	.0009
%RSD	59.21	7.275	236.5	139.5	22.56	213.7	28.11	6.385	8.620	3075.
#1	.0007	.0027	.0011	.0189	.0114	.0001	-.0007	.1034	.0004	-.0010
#2	.0004	.0031	-.0057	-.0076	.0072	-.0002	-.0004	.1006	.0004	.0006
#3	.0002	.0028	-.0001	.0421	.0099	.0008	-.0008	.1135	.0004	.0004

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0020**	**-.0012**	**.0431**	**-.0005**	**.0002**	**-.0007**	**.0008**	**-.0004**	**.0010**
Stddev	.0002	.0013	.0023	.0002	.0001	.0002	.0003	.0003	.0000
%RSD	9.601	115.3	5.377	52.10	62.80	23.40	39.72	63.55	4.224
#1	-.0018	-.0002	.0445	-.0007	.0003	-.0008	.0010	-.0001	.0010
#2	-.0021	-.0006	.0443	-.0004	.0003	-.0007	.0011	-.0005	.0010
#3	-.0022	-.0027	.0404	-.0003	.0001	-.0005	.0005	-.0007	.0010

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7845.4**	**36961.**	**6481.4**
Stddev	195.5	273.	112.5
%RSD	2.4920	.73938	1.7357
#1	7702.2	36645.	6456.7
#2	7765.8	37109.	6604.2
#3	8068.1	37128.	6383.3

Sample Name: WG1186068-2,T Acquired: 12/6/2018 11:30:45 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: LC Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0465**	**1.999**	**.1184**	**1.072**	**2.027**	**.0484**	**-.0033**	**9.744**	**.0520**	**.4952**
Stddev	.0002	.052	.0011	.016	.050	.0012	.0009	.237	.0007	.0065
%RSD	.4695	2.583	.9609	1.525	2.481	2.527	27.72	2.434	1.347	1.317
#1	.0462	2.057	.1193	1.087	2.084	.0498	-.0038	9.997	.0527	.5017
#2	.0466	1.983	.1187	1.073	2.009	.0481	-.0022	9.708	.0520	.4954
#3	.0466	1.958	.1171	1.055	1.989	.0474	-.0038	9.527	.0513	.4887

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1974**	**.2432**	**1.001**	**9.482**	**10.27**	**.4625**	**.9641**	**10.19**	**.4914**	**.4840**
Stddev	.0001	.0005	.024	.221	.18	.0106	.0112	.26	.0067	.0071
%RSD	.0432	.2255	2.433	2.325	1.718	2.300	1.165	2.544	1.360	1.468
#1	.1974	.2437	1.028	9.724	10.47	.4745	.9754	10.49	.4977	.4905
#2	.1975	.2427	.9922	9.431	10.22	.4589	.9640	10.09	.4920	.4850
#3	.1974	.2433	.9820	9.292	10.13	.4542	.9529	9.999	.4844	.4764

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4819**	**.1240**	**.6331**	**.9450**	**.9626**	**.9668**	**.1130**	**.4895**	**.5193**
Stddev	.0009	.0028	.0099	.0103	.0235	.0021	.0014	.0007	.0071
%RSD	.1910	2.236	1.560	1.095	2.445	.2150	1.223	.1400	1.373
#1	.4828	.1251	.6430	.9558	.9884	.9667	.1146	.4895	.5262
#2	.4819	.1260	.6330	.9441	.9570	.9689	.1126	.4902	.5196
#3	.4810	.1208	.6232	.9351	.9424	.9648	.1119	.4888	.5120

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7659.2**	**36958.**	**6509.0**
Stddev	95.0	74.	106.6
%RSD	1.2397	.20074	1.6377
#1	7571.1	36986.	6387.7
#2	7646.7	36873.	6551.5
#3	7759.8	37013.	6587.7

Sample Name: L1849096-01,T Acquired: 12/6/2018 11:35:33 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: LC Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**.1196**	**.0021**	**.0036**	**.0077**	**.0000**	**-.0006**	**3.151**	**-.0001**	**.0004**
Stddev	.0001	.0081	.0006	.0001	.0003	.0000	.0006	.033	.0000	.0001
%RSD	44.54	6.810	29.35	2.746	3.971	100.0	104.6	1.055	31.54	24.97
#1	-.0001	.1273	.0020	.0035	.0081	.0001	-.0003	3.189	-.0001	.0003
#2	-.0001	.1111	.0015	.0037	.0074	.0000	-.0001	3.140	-.0001	.0003
#3	-.0002	.1204	.0027	.0035	.0077	.0000	-.0012	3.126	-.0001	.0005

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**.0014**	**.2417**	**.7357**	**.7293**	**.0275**	**.0057**	**12.17**	**.0007**	**.0007**
Stddev	.0001	.0001	.0023	.0341	.0097	.0000	.0012	.15	.0001	.0002
%RSD	31.22	4.071	.9518	4.632	1.333	.1039	20.15	1.260	15.87	31.17
#1	.0003	.0015	.2443	.7695	.7404	.0275	.0069	12.34	.0008	.0009
#2	.0004	.0014	.2401	.7364	.7250	.0275	.0057	12.08	.0008	.0007
#3	.0005	.0014	.2406	.7013	.7224	.0275	.0046	12.08	.0006	.0005

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0146**	**-.0004**	**3.017**	**.0104**	**.0259**	**.0040**	**.0009**	**-.0000**	**.0036**
Stddev	.0037	.0002	.059	.0016	.0004	.0003	.0006	.0002	.0001
%RSD	25.62	66.64	1.961	15.02	1.492	6.697	65.60	7939.	2.028
#1	.0187	-.0005	3.057	.0118	.0263	.0041	.0014	.0002	.0037
#2	.0138	-.0005	3.045	.0106	.0256	.0042	.0002	-.0001	.0036
#3	.0113	-.0001	2.949	.0087	.0257	.0037	.0011	-.0002	.0037

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7712.4**	**37141.**	**6577.2**
Stddev	125.5	333.	52.6
%RSD	1.6274	.89600	.79999
#1	7624.2	36984.	6517.9
#2	7656.9	36915.	6595.5
#3	7856.1	37523.	6618.2

Sample Name: WG1186068-3,T Acquired: 12/6/2018 11:40:34 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: LC Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0470**	**2.157**	**.1218**	**1.100**	**2.075**	**.0494**	**-.0030**	**13.11**	**.0527**	**.5050**
Stddev	.0001	.048	.0015	.014	.047	.0009	.0006	.22	.0007	.0063
%RSD	.3139	2.242	1.248	1.240	2.255	1.877	19.24	1.653	1.356	1.238
#1	.0471	2.209	.1221	1.104	2.129	.0504	-.0023	13.36	.0530	.5072
#2	.0468	2.149	.1231	1.111	2.048	.0490	-.0032	13.00	.0532	.5099
#3	.0470	2.113	.1201	1.085	2.047	.0487	-.0035	12.98	.0518	.4980

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2013**	**.2498**	**1.264**	**10.73**	**11.07**	**.4982**	**.9910**	**23.20**	**.4990**	**.4944**
Stddev	.0012	.0002	.021	.20	.11	.0085	.0118	.48	.0062	.0071
%RSD	.6063	.0933	1.635	1.827	.9790	1.698	1.191	2.071	1.234	1.434
#1	.2000	.2500	1.288	10.96	11.19	.5074	.9945	23.76	.5007	.4983
#2	.2016	.2499	1.253	10.62	10.98	.4967	1.001	22.93	.5042	.4987
#3	.2024	.2495	1.252	10.62	11.05	.4907	.9778	22.92	.4922	.4862

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5159**	**.1262**	**3.804**	**.9719**	**1.012**	**.9937**	**.1166**	**.5005**	**.5300**
Stddev	.0053	.0026	.047	.0112	.020	.0013	.0014	.0017	.0075
%RSD	1.034	2.070	1.238	1.147	1.985	.1282	1.177	.3457	1.409
#1	.5155	.1262	3.818	.9745	1.035	.9923	.1165	.4986	.5342
#2	.5214	.1288	3.842	.9814	1.003	.9948	.1180	.5008	.5346
#3	.5108	.1236	3.752	.9596	.9986	.9940	.1153	.5021	.5214

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7548.5**	**36384.**	**6477.3**
Stddev	74.4	59.	75.8
%RSD	.98510	.16230	1.1702
#1	7517.3	36404.	6391.4
#2	7494.9	36429.	6534.6
#3	7633.4	36317.	6505.9

Sample Name: WG1186068-4,T Acquired: 12/6/2018 11:45:22 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: LC Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.1063**	**.0008**	**.0040**	**.0076**	**.0000**	**-.0011**	**3.184**	**-.0001**	**.0002**
Stddev	.0001	.0018	.0006	.0002	.0003	.0000	.0002	.031	.0000	.0000
%RSD	51.10	1.660	72.01	4.763	4.313	72.42	21.64	.9842	31.48	19.83
#1	.0001	.1045	.0002	.0042	.0076	.0001	-.0009	3.215	-.0000	.0003
#2	.0003	.1064	.0008	.0038	.0079	.0000	-.0011	3.183	-.0001	.0002
#3	.0001	.1080	.0014	.0040	.0072	.0001	-.0014	3.153	-.0001	.0003

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0007**	**.0018**	**.2349**	**.7255**	**.7231**	**.0278**	**.0050**	**12.15**	**.0008**	**.0000**
Stddev	.0004	.0002	.0023	.0199	.0070	.0006	.0009	.10	.0002	.0004
%RSD	53.14	12.47	.9869	2.748	.9703	2.306	18.78	.7880	21.88	1593.
#1	.0006	.0019	.2376	.7472	.7312	.0281	.0060	12.25	.0008	.0005
#2	.0011	.0015	.2337	.7214	.7194	.0281	.0047	12.14	.0007	-.0003
#3	.0004	.0019	.2334	.7080	.7188	.0270	.0042	12.06	.0010	-.0001

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0102**	**-.0004**	**2.995**	**.0095**	**.0260**	**.0035**	**.0003**	**.0000**	**.0036**
Stddev	.0027	.0013	.034	.0015	.0005	.0002	.0007	.0001	.0000
%RSD	26.01	309.5	1.122	16.14	2.036	4.564	241.7	376.7	1.309
#1	.0128	-.0001	3.010	.0111	.0265	.0036	-.0004	-.0001	.0036
#2	.0104	-.0019	3.019	.0096	.0260	.0035	.0002	.0001	.0036
#3	.0075	.0007	2.956	.0080	.0255	.0033	.0010	.0000	.0035

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7730.0**	**36686.**	**6541.4**
Stddev	78.7	477.	33.9
%RSD	1.0187	1.3002	.51836
#1	7702.7	36239.	6508.4
#2	7668.4	37188.	6539.6
#3	7818.7	36630.	6576.1

Sample Name: WG1186068-5,T Acquired: 12/6/2018 11:50:23 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: LC Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0568**	**2.419**	**.1216**	**1.085**	**2.322**	**.0555**	**-.0036**	**14.27**	**.0517**	**.4945**
Stddev	.0003	.087	.0067	.055	.086	.0020	.0008	.53	.0027	.0250
%RSD	.5064	3.615	5.471	5.093	3.724	3.684	22.39	3.732	5.248	5.053
#1	.0571	2.518	.1283	1.140	2.419	.0579	-.0038	14.88	.0544	.5192
#2	.0567	2.387	.1215	1.086	2.295	.0546	-.0027	14.02	.0518	.4952
#3	.0566	2.353	.1150	1.029	2.253	.0541	-.0043	13.90	.0490	.4692

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2200**	**.2737**	**1.380**	**11.99**	**12.05**	**.5552**	**.9899**	**24.03**	**.4885**	**.4946**
Stddev	.0026	.0022	.046	.40	.40	.0211	.0486	.74	.0245	.0246
%RSD	1.173	.8083	3.356	3.325	3.333	3.808	4.905	3.094	5.006	4.965
#1	.2208	.2748	1.433	12.45	12.51	.5796	1.038	24.88	.5126	.5184
#2	.2170	.2712	1.362	11.82	11.81	.5445	.9911	23.72	.4893	.4961
#3	.2220	.2751	1.346	11.71	11.82	.5416	.9407	23.48	.4637	.4694

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5039**	**.1277**	**3.506**	**.9677**	**1.132**	**1.078**	**.1157**	**.5436**	**.5206**
Stddev	.0177	.0075	.028	.0475	.041	.011	.0061	.0043	.0267
%RSD	3.502	5.840	.7950	4.909	3.622	1.007	5.288	.7997	5.128
#1	.5216	.1339	3.533	1.015	1.179	1.086	.1220	.5464	.5472
#2	.5039	.1299	3.507	.9672	1.115	1.065	.1151	.5386	.5208
#3	.4863	.1194	3.478	.9205	1.102	1.081	.1098	.5459	.4938

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7603.8**	**36383.**	**6467.1**
Stddev	25.5	485.	143.7
%RSD	.33553	1.3327	2.2226
#1	7580.5	36663.	6301.3
#2	7599.9	36662.	6556.3
#3	7631.1	35823.	6543.7

Sample Name: WG1186068-6,T,5 Acquired: 12/6/2018 11:55:12 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: LC Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0250**	**-.0005**	**.0020**	**.0020**	**.0000**	**-.0007**	**.6592**	**-.0000**	**.0002**
Stddev	.0001	.0029	.0005	.0006	.0003	.0000	.0005	.0083	.0000	.0001
%RSD	93.47	11.48	92.16	31.30	13.45	33.74	69.80	1.257	354.3	35.71
#1	.0002	.0253	-.0010	.0026	.0019	.0000	-.0007	.6497	.0000	.0001
#2	.0000	.0220	-.0000	.0022	.0018	.0000	-.0002	.6642	-.0000	.0002
#3	.0001	.0278	-.0005	.0013	.0023	.0000	-.0011	.6639	-.0000	.0002

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0008**	**.0536**	**.1492**	**.1557**	**.0066**	**.0062**	**2.437**	**.0004**	**-.0001**
Stddev	.0001	.0003	.0009	.0158	.0033	.0003	.0013	.018	.0002	.0012
%RSD	31.07	35.27	1.773	10.62	2.141	4.211	21.24	.7279	37.34	801.9
#1	.0004	.0011	.0546	.1670	.1579	.0066	.0075	2.423	.0006	-.0015
#2	.0002	.0007	.0535	.1439	.1519	.0068	.0062	2.432	.0003	.0005
#3	.0003	.0006	.0527	.1366	.1573	.0063	.0049	2.457	.0005	.0006

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0154**	**-.0009**	**.6014**	**.0108**	**.0053**	**.0017**	**.0003**	**-.0002**	**.0011**
Stddev	.0044	.0012	.0198	.0019	.0002	.0004	.0006	.0001	.0001
%RSD	28.86	135.3	3.293	17.64	4.226	20.45	175.9	63.72	12.59
#1	.0202	-.0019	.6057	.0127	.0051	.0021	-.0003	-.0002	.0013
#2	.0146	.0004	.6186	.0108	.0054	.0017	.0004	-.0000	.0011
#3	.0114	-.0011	.5798	.0089	.0056	.0014	.0009	-.0003	.0010

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7848.2**	**37205.**	**6424.0**
Stddev	286.5	117.	23.3
%RSD	3.6509	.31540	.36333
#1	7691.9	37115.	6411.2
#2	7673.8	37162.	6451.0
#3	8178.9	37338.	6409.9

Sample Name: L1849096-02,T Acquired: 12/6/2018 12:00:14 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: LC Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0002**	**.1171**	**.0003**	**.0035**	**.0074**	**.0001**	**-.0013**	**3.148**	**-.0001**	**.0003**
Stddev	.0005	.0020	.0004	.0001	.0001	.0001	.0005	.020	.0000	.0000
%RSD	223.7	1.687	116.6	3.823	1.263	105.9	38.20	.6453	32.58	13.98
#1	.0000	.1191	-.0001	.0037	.0075	.0001	-.0019	3.147	-.0001	.0004
#2	.0001	.1152	.0005	.0035	.0074	.0001	-.0010	3.168	-.0001	.0004
#3	-.0008	.1172	.0006	.0034	.0074	-.0000	-.0011	3.128	-.0001	.0003

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0014**	**.2316**	**.7394**	**.7191**	**.0275**	**.0009**	**12.20**	**.0009**	**.0012**
Stddev	.0003	.0003	.0024	.0190	.0048	.0005	.0002	.07	.0001	.0001
%RSD	129.3	18.06	1.021	2.568	.6709	1.883	23.86	.5944	8.650	4.864
#1	.0004	.0017	.2318	.7258	.7180	.0281	.0010	12.28	.0010	.0013
#2	.0004	.0012	.2338	.7611	.7245	.0270	.0010	12.17	.0009	.0012
#3	-.0001	.0015	.2291	.7313	.7150	.0274	.0006	12.14	.0009	.0012

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0014**	**-.0000**	**2.999**	**.0034**	**.0257**	**.0021**	**.0007**	**.0000**	**.0035**
Stddev	.0009	.0006	.053	.0005	.0002	.0002	.0005	.0002	.0000
%RSD	66.38	1277.	1.756	14.15	.8412	8.744	76.47	858.9	.6021
#1	.0024	.0006	3.022	.0036	.0258	.0023	.0013	.0002	.0035
#2	.0010	-.0005	3.036	.0037	.0257	.0020	.0003	-.0002	.0035
#3	.0007	-.0002	2.939	.0028	.0254	.0020	.0005	.0001	.0035

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7736.6**	**37052.**	**6608.2**
Stddev	101.0	287.	17.6
%RSD	1.3056	.77357	.26560
#1	7699.4	36728.	6611.2
#2	7659.6	37155.	6589.3
#3	7851.0	37272.	6624.1

Sample Name: L1849096-03,T Acquired: 12/6/2018 12:05:13 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: LC Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**.0640**	**-.0003**	**.0111**	**.0274**	**.0001**	**-.0014**	**10.11**	**-.0001**	**.0003**
Stddev	.0001	.0051	.0003	.0005	.0005	.0000	.0006	.18	.0000	.0001
%RSD	195.5	7.892	108.6	4.714	1.658	18.61	42.32	1.732	53.94	29.36
#1	-.0002	.0698	-.0006	.0116	.0279	.0001	-.0013	10.31	-.0001	.0003
#2	-.0000	.0606	-.0004	.0113	.0270	.0001	-.0009	10.05	-.0001	.0004
#3	.0000	.0616	.0001	.0106	.0274	.0001	-.0020	9.972	-.0001	.0002

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**.0013**	**.1694**	**1.940**	**1.858**	**.0507**	**.0003**	**59.77**	**.0006**	**.0009**
Stddev	.0003	.0002	.0023	.066	.019	.0011	.0001	.98	.0000	.0006
%RSD	71.66	12.97	1.360	3.398	1.042	2.165	33.91	1.638	7.443	64.34
#1	.0003	.0015	.1716	2.012	1.880	.0519	.0002	60.90	.0006	.0003
#2	.0002	.0011	.1698	1.928	1.844	.0501	.0004	59.18	.0007	.0014
#3	.0008	.0013	.1670	1.881	1.849	.0499	.0003	59.23	.0006	.0010

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**-.0011**	**4.372**	**.0014**	**.1057**	**.0004**	**.0011**	**.0001**	**.0044**
Stddev	.0006	.0018	.066	.0007	.0016	.0001	.0004	.0001	.0001
%RSD	458.6	169.0	1.509	54.53	1.532	26.09	36.15	77.62	1.707
#1	.0007	.0007	4.419	.0013	.1076	.0003	.0008	.0000	.0045
#2	.0002	-.0029	4.400	.0021	.1049	.0003	.0016	.0001	.0044
#3	-.0006	-.0010	4.296	.0006	.1047	.0005	.0011	.0001	.0045

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7600.5**	**36344.**	**6475.1**
Stddev	97.2	534.	79.8
%RSD	1.2793	1.4683	1.2316
#1	7532.5	36363.	6384.8
#2	7557.1	36867.	6504.7
#3	7711.9	35800.	6535.9

Sample Name: CCV Acquired: 12/6/2018 12:10:15 Type: QC
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: LC Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4817**	**.5237**	**.5170**	**.5100**	**.5269**	**.4907**	**-.0025**	**.4947**	**.4964**	**.5052**
Stddev	.0017	.0044	.0083	.0073	.0012	.0008	.0010	.0103	.0079	.0077
%RSD	.3561	.8418	1.601	1.433	.2189	.1656	41.79	2.092	1.588	1.527
#1	.4798	.5275	.5212	.5141	.5282	.4906	-.0015	.4987	.5013	.5096
#2	.4832	.5189	.5223	.5143	.5262	.4915	-.0024	.5025	.5007	.5097
#3	.4820	.5247	.5074	.5015	.5262	.4899	-.0036	.4829	.4874	.4963
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5104**	**.5141**	**.4940**	**4.677**	**.5115**	**.4931**	**.5027**	**9.904**	**.4940**	**.5197**
Stddev	.0013	.0011	.0005	.016	.0074	.0006	.0073	.023	.0074	.0077
%RSD	.2460	.2068	.0968	.3403	1.455	.1189	1.449	.2354	1.498	1.491
#1	.5090	.5133	.4945	4.686	.5147	.4925	.5065	9.925	.4987	.5232
#2	.5112	.5137	.4938	4.686	.5169	.4937	.5074	9.907	.4979	.5251
#3	.5110	.5153	.4936	4.658	.5030	.4931	.4944	9.879	.4855	.5108
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5211**	**.5162**	**5.183**	F **.5574**	**.4854**	**.4778**	**.5050**	**.5046**	**.4928**
Stddev	.0091	.0095	.075	.0070	.0012	.0012	.0063	.0024	.0081
%RSD	1.750	1.848	1.450	1.248	.2431	.2467	1.250	.4685	1.653
#1	.5251	.5204	5.223	.5617	.4859	.4767	.5089	.5018	.4981
#2	.5276	.5228	5.230	.5610	.4862	.4790	.5084	.5058	.4969
#3	.5107	.5052	5.096	.5493	.4840	.4778	.4977	.5060	.4834
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.5524					
Low Limit				.4476					

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7732.5**	**37058.**	**6478.0**
Stddev	104.2	80.	47.3
%RSD	1.3479	.21566	.73031
#1	7674.0	37139.	6463.7
#2	7670.6	37057.	6439.5
#3	7852.8	36979.	6530.8

Sample Name: CCB Acquired: 12/6/2018 12:15:06 Type: QC
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: LC Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0053**	**.0005**	**.0005**	**.0004**	**.0002**	**-.0001**	**.0170**	**.0001**	**.0001**
Stddev	.0003	.0007	.0002	.0002	.0001	.0001	.0001	.0056	.0001	.0002
%RSD	96.59	13.00	41.00	31.45	25.82	26.85	83.21	32.96	42.12	174.6
#1	.0007	.0058	.0007	.0007	.0004	.0001	-.0001	.0203	.0002	-.0001
#2	.0001	.0055	.0004	.0005	.0004	.0002	-.0000	.0201	.0001	.0003
#3	.0002	.0045	.0004	.0004	.0006	.0002	-.0003	.0105	.0001	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006**	**.0011**	**-.0019**	**.0262**	**.0040**	**.0002**	**.0019**	**.0137**	**.0001**	**.0004**
Stddev	.0002	.0001	.0021	.0278	.0013	.0004	.0005	.0045	.0002	.0005
%RSD	37.51	12.01	111.0	106.0	33.02	161.8	28.57	32.53	222.4	137.4
#1	.0006	.0010	-.0029	.0330	.0039	.0001	.0024	.0090	-.0001	.0010
#2	.0009	.0012	-.0033	.0500	.0027	.0006	.0019	.0142	.0001	-.0001
#3	.0004	.0010	.0005	-.0043	.0054	-.0001	.0013	.0179	.0002	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0008**	**-.0166**	**.0037**	**.0000**	**.0004**	**-.0001**	**.0001**	**.0002**
Stddev	.0004	.0006	.0019	.0007	.0001	.0003	.0002	.0001	.0001
%RSD	129.4	76.60	11.46	19.35	560.1	73.09	197.2	76.57	43.85
#1	.0003	.0006	-.0158	.0044	-.0001	.0007	-.0002	.0001	.0001
#2	-.0001	.0015	-.0151	.0036	.0001	.0001	.0002	.0000	.0003
#3	.0007	.0003	-.0187	.0030	.0001	.0005	-.0003	.0001	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7877.9**	**36898.**	**6440.3**
Stddev	366.6	301.	84.0
%RSD	4.6535	.81622	1.3045
#1	7645.3	36997.	6360.8
#2	7687.9	36559.	6431.9
#3	8300.5	37136.	6528.2

Sample Name: WG1186261-1,C Acquired: 12/6/2018 12:25:52 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: LC Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0002**	**.0169**	**.0013**	**.0028**	**.0027**	**.0001**	**-.0020**	**.2000**	**-.0000**	**.0001**
Stddev	.0004	.0087	.0002	.0002	.0000	.0001	.0001	.0033	.0000	.0001
%RSD	177.2	51.66	14.50	8.034	.6061	67.18	7.184	1.666	74.26	136.2
#1	.0001	.0149	.0011	.0028	.0027	.0000	-.0018	.1975	-.0000	.0000
#2	-.0006	.0264	.0012	.0029	.0027	.0002	-.0020	.2038	-.0000	.0000
#3	-.0001	.0093	.0015	.0025	.0028	.0001	-.0021	.1986	-.0000	.0001

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**.0016**	**.0032**	**.1003**	**.0132**	**.0008**	**.0005**	**164.2**	**.0003**	**.0023**
Stddev	.0003	.0004	.0022	.0225	.0022	.0002	.0001	2.1	.0001	.0005
%RSD	69.05	24.76	67.11	22.44	16.48	31.24	28.01	1.252	28.80	22.58
#1	.0006	.0018	.0014	.0823	.0129	.0006	.0007	161.9	.0004	.0019
#2	.0007	.0019	.0027	.0931	.0155	.0007	.0004	164.8	.0002	.0029
#3	.0001	.0012	.0056	.1256	.0112	.0010	.0005	165.8	.0003	.0022

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**.0006**	**.0160**	**.0056**	**.0008**	**-.0003**	**.0006**	**-.0001**	**.0041**
Stddev	.0001	.0009	.0032	.0012	.0002	.0003	.0007	.0000	.0002
%RSD	32.16	156.5	20.00	20.82	22.80	98.57	117.2	30.04	4.561
#1	.0005	.0013	.0192	.0063	.0007	-.0006	.0005	-.0002	.0041
#2	.0002	.0009	.0161	.0062	.0010	-.0001	.0012	-.0001	.0043
#3	.0005	-.0004	.0128	.0043	.0008	-.0001	-.0001	-.0002	.0039

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7494.6**	**35399.**	**6310.9**
Stddev	292.2	208.	19.1
%RSD	3.8991	.58832	.30324
#1	7352.2	35305.	6304.3
#2	7300.9	35255.	6332.4
#3	7830.8	35638.	6295.9

Sample Name: WG1186261-2,C Acquired: 12/6/2018 12:31:04 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: LC Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0435**	**1.950**	**.1132**	**.9928**	**1.949**	**.0473**	**-.0024**	**9.275**	**.0486**	**.4656**
Stddev	.0002	.021	.0034	.0268	.020	.0006	.0005	.112	.0012	.0122
%RSD	.3773	1.072	3.011	2.702	1.046	1.188	22.68	1.212	2.564	2.613
#1	.0435	1.972	.1140	1.006	1.970	.0479	-.0030	9.366	.0493	.4719
#2	.0433	1.930	.1161	1.010	1.930	.0467	-.0020	9.149	.0494	.4733
#3	.0437	1.948	.1094	.9619	1.947	.0473	-.0022	9.309	.0472	.4516

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1916**	**.2394**	**.9711**	**10.38**	**9.337**	**.4446**	**.9206**	**172.8**	**.4556**	**.4467**
Stddev	.0012	.0008	.0132	.10	.088	.0058	.0239	2.0	.0124	.0126
%RSD	.6047	.3203	1.359	.9572	.9475	1.295	2.599	1.135	2.720	2.815
#1	.1918	.2392	.9822	10.48	9.433	.4503	.9322	173.3	.4619	.4527
#2	.1904	.2388	.9565	10.28	9.259	.4388	.9365	170.7	.4636	.4552
#3	.1926	.2403	.9746	10.38	9.318	.4446	.8931	174.5	.4413	.4323

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4831**	**.1143**	**.6948**	**.8943**	**.9090**	**.9270**	**.1012**	**.4789**	**.4917**
Stddev	.0120	.0026	.0180	.0236	.0100	.0053	.0023	.0020	.0125
%RSD	2.475	2.287	2.598	2.634	1.104	.5681	2.227	.4268	2.534
#1	.4901	.1137	.7041	.9065	.9194	.9238	.1004	.4777	.4985
#2	.4899	.1172	.7062	.9093	.8994	.9241	.1038	.4777	.4993
#3	.4693	.1120	.6739	.8671	.9081	.9331	.0995	.4812	.4773

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7409.1**	**35119.**	**6218.5**
Stddev	167.7	153.	52.4
%RSD	2.2631	.43511	.84325
#1	7320.2	35215.	6162.2
#2	7304.6	35199.	6265.9
#3	7602.5	34943.	6227.5

Sample Name: L1849440-01,C Acquired: 12/6/2018 12:35:59 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: LC Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0644**	**-.0000**	**.0051**	**.0750**	**.0001**	**-.0005**	**5.258**	**.0001**	**.0040**
Stddev	.0002	.0046	.0008	.0003	.0004	.0001	.0006	.023	.0000	.0001
%RSD	215.0	7.166	14990.	6.243	.4808	50.78	106.0	.4417	21.89	3.113
#1	.0003	.0593	.0004	.0053	.0753	.0001	-.0011	5.282	.0001	.0041
#2	.0001	.0659	-.0009	.0053	.0751	.0002	-.0000	5.236	.0001	.0039
#3	-.0001	.0681	.0005	.0048	.0746	.0001	-.0004	5.254	.0001	.0039

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0041**	**.0049**	**.0092**	**1.147**	**.5083**	**.4237**	**.0013**	**167.9**	**.0038**	**5.253**
Stddev	.0001	.0002	.0024	.015	.0100	.0033	.0004	.8	.0003	.161
%RSD	3.588	3.662	25.76	1.313	1.971	.7709	32.85	.4775	8.219	3.062
#1	.0039	.0047	.0065	1.146	.5182	.4274	.0017	168.4	.0041	5.351
#2	.0042	.0050	.0109	1.162	.4982	.4225	.0013	168.3	.0035	5.341
#3	.0041	.0050	.0103	1.132	.5083	.4211	.0009	167.0	.0037	5.068

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**.0002**	**.2897**	**.0015**	**.0289**	**.0000**	**-.0001**	**-.0000**	**.0126**
Stddev	.0002	.0009	.0117	.0006	.0002	.0001	.0007	.0001	.0004
%RSD	664.5	408.1	4.049	40.97	.7900	198.4	1059.	200.6	2.839
#1	-.0002	.0011	.2981	.0022	.0291	.0001	-.0005	-.0001	.0128
#2	.0003	.0003	.2945	.0011	.0287	-.0000	-.0004	-.0001	.0128
#3	.0001	-.0007	.2763	.0012	.0288	.0000	.0007	.0001	.0122

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7500.8**	**35534.**	**6305.6**
Stddev	196.0	65.	18.0
%RSD	2.6136	.18254	.28506
#1	7382.8	35488.	6286.9
#2	7392.5	35506.	6322.7
#3	7727.1	35609.	6307.1

Sample Name: WG1186261-3,C Acquired: 12/6/2018 12:41:06 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: LC Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0433**	**2.020**	**.1131**	**1.002**	**2.015**	**.0473**	**-.0027**	**14.35**	**.0488**	**.4710**
Stddev	.0004	.033	.0017	.024	.014	.0004	.0001	.15	.0011	.0111
%RSD	.8954	1.612	1.521	2.410	.7025	.8341	3.669	1.053	2.208	2.357
#1	.0429	2.010	.1138	1.018	2.019	.0474	-.0028	14.42	.0494	.4781
#2	.0436	2.056	.1143	1.013	2.027	.0476	-.0026	14.46	.0493	.4767
#3	.0433	1.993	.1111	.9738	2.000	.0469	-.0026	14.18	.0475	.4582

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1920**	**.2390**	**.9805**	**11.56**	**9.786**	**.8482**	**.9319**	**173.0**	**.4593**	**5.528**
Stddev	.0027	.0022	.0058	.08	.097	.0053	.0212	1.7	.0104	.126
%RSD	1.425	.9161	.5946	.6834	.9930	.6263	2.274	.9751	2.259	2.287
#1	.1905	.2380	.9825	11.60	9.769	.8531	.9460	173.4	.4666	5.611
#2	.1951	.2415	.9850	11.62	9.890	.8489	.9421	174.5	.4639	5.591
#3	.1903	.2374	.9739	11.48	9.698	.8426	.9075	171.2	.4474	5.383

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4847**	**.1153**	**.9734**	**.8974**	**.9434**	**.9128**	**.1004**	**.4719**	**.5018**
Stddev	.0100	.0043	.0133	.0218	.0077	.0111	.0022	.0048	.0115
%RSD	2.069	3.711	1.362	2.427	.8133	1.222	2.183	1.019	2.300
#1	.4926	.1172	.9824	.9123	.9475	.9087	.1025	.4690	.5091
#2	.4880	.1184	.9797	.9075	.9481	.9254	.1007	.4775	.5078
#3	.4734	.1104	.9582	.8724	.9345	.9042	.0981	.4693	.4885

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7429.8**	**35789.**	**6289.2**
Stddev	153.0	319.	53.7
%RSD	2.0598	.89253	.85329
#1	7324.4	35934.	6275.6
#2	7359.7	35423.	6243.7
#3	7605.4	36011.	6348.4

Sample Name: WG1186261-4,C Acquired: 12/6/2018 12:46:02 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: LC Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0633**	**.0022**	**.0057**	**.0739**	**.0001**	**-.0011**	**5.256**	**.0001**	**.0040**
Stddev	.0001	.0063	.0004	.0003	.0007	.0000	.0005	.045	.0000	.0001
%RSD	38.90	9.980	18.75	4.687	1.002	51.01	42.29	.8649	21.30	3.522
#1	.0002	.0636	.0026	.0060	.0737	.0001	-.0008	5.215	.0001	.0039
#2	.0003	.0568	.0018	.0057	.0747	.0000	-.0009	5.305	.0001	.0042
#3	.0004	.0694	.0021	.0054	.0733	.0001	-.0017	5.247	.0001	.0039

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0069**	**.0047**	**.0301**	**1.128**	**.5016**	**.4124**	**.0017**	**164.7**	**.0052**	**5.178**
Stddev	.0002	.0002	.0004	.025	.0023	.0043	.0003	2.4	.0001	.143
%RSD	3.113	4.751	1.214	2.216	.4659	1.041	21.03	1.480	1.976	2.769
#1	.0070	.0047	.0298	1.124	.5042	.4109	.0020	162.4	.0052	5.250
#2	.0066	.0045	.0301	1.155	.5010	.4173	.0017	167.3	.0054	5.270
#3	.0070	.0050	.0305	1.106	.4997	.4091	.0013	164.3	.0051	5.012

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0002**	**.0003**	**.2910**	**.0010**	**.0287**	**.0004**	**-.0003**	**-.0000**	**.0139**
Stddev	.0003	.0004	.0112	.0008	.0002	.0003	.0005	.0002	.0004
%RSD	147.2	118.8	3.853	73.76	.7522	63.46	180.4	8258.	2.960
#1	.0001	.0007	.2988	.0003	.0287	.0007	-.0007	.0002	.0140
#2	-.0005	.0003	.2961	.0018	.0290	.0004	-.0004	-.0001	.0143
#3	-.0003	-.0001	.2782	.0010	.0285	.0001	.0003	-.0000	.0135

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7476.2**	**35669.**	**6294.2**
Stddev	166.1	120.	47.1
%RSD	2.2216	.33652	.74880
#1	7384.8	35530.	6331.2
#2	7375.8	35741.	6241.2
#3	7667.9	35735.	6310.2

Sample Name: WG1186261-5,C Acquired: 12/6/2018 12:51:09 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: LC Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0493**	**1.971**	**.1139**	**1.004**	**2.017**	**.0469**	**-.0030**	**14.40**	**.0476**	**.4577**
Stddev	.0004	.026	.0050	.041	.023	.0006	.0011	.09	.0020	.0189
%RSD	.7222	1.313	4.387	4.089	1.157	1.232	37.37	.6541	4.171	4.133
#1	.0489	1.982	.1171	1.035	2.037	.0473	-.0018	14.41	.0489	.4707
#2	.0496	1.990	.1164	1.021	2.022	.0471	-.0040	14.48	.0485	.4665
#3	.0494	1.942	.1081	.9576	1.991	.0462	-.0033	14.30	.0453	.4360

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1942**	**.2441**	**.9575**	**11.92**	**9.927**	**.8466**	**.9291**	**173.9**	**.4458**	**5.593**
Stddev	.0022	.0017	.0109	.13	.055	.0081	.0379	3.2	.0180	.188
%RSD	1.148	.7136	1.142	1.125	.5585	.9617	4.076	1.823	4.033	3.359
#1	.1937	.2439	.9645	12.06	9.892	.8520	.9548	172.9	.4585	5.692
#2	.1966	.2460	.9632	11.91	9.991	.8506	.9468	177.4	.4536	5.712
#3	.1922	.2425	.9449	11.80	9.898	.8372	.8856	171.3	.4252	5.377

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4734**	**.1164**	**.7461**	**.8909**	**.9514**	**.9325**	**.1051**	**.4744**	**.4890**
Stddev	.0194	.0058	.0286	.0377	.0139	.0087	.0038	.0042	.0215
%RSD	4.097	4.984	3.832	4.228	1.457	.9301	3.662	.8796	4.387
#1	.4869	.1207	.7649	.9168	.9634	.9298	.1062	.4738	.5035
#2	.4821	.1187	.7601	.9082	.9546	.9422	.1083	.4788	.4992
#3	.4512	.1098	.7132	.8477	.9362	.9256	.1009	.4705	.4643

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7428.1**	**35316.**	**6335.6**
Stddev	196.1	334.	38.4
%RSD	2.6401	.94473	.60647
#1	7327.3	35385.	6369.2
#2	7303.0	34953.	6293.7
#3	7654.1	35609.	6343.8

Sample Name: WG1186261-6,C,5 Acquired: 12/6/2018 12:56:04 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: LC Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**.0106**	**-.0020**	**.0019**	**.0162**	**.0000**	**-.0003**	**1.114**	**.0000**	**.0009**
Stddev	.0001	.0167	.0008	.0003	.0003	.0000	.0004	.012	.0000	.0001
%RSD	309.9	157.5	38.62	15.24	1.931	381.4	133.9	1.032	515.2	10.75
#1	-.0000	-.0030	-.0013	.0019	.0165	.0000	-.0003	1.101	.0000	.0009
#2	-.0000	.0056	-.0028	.0021	.0160	-.0000	.0001	1.122	.0000	.0010
#3	.0002	.0293	-.0018	.0016	.0160	.0000	-.0007	1.120	-.0000	.0008

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0010**	**.0017**	**.0013**	**.2247**	**.1118**	**.0897**	**.0017**	**34.30**	**.0011**	**1.130**
Stddev	.0004	.0003	.0019	.0245	.0024	.0011	.0004	.29	.0001	.040
%RSD	38.00	16.50	143.6	10.91	2.113	1.195	24.46	.8601	11.93	3.541
#1	.0009	.0018	.0034	.2121	.1142	.0886	.0021	34.06	.0010	1.154
#2	.0014	.0020	.0010	.2530	.1116	.0897	.0018	34.21	.0013	1.152
#3	.0006	.0014	-.0004	.2091	.1095	.0908	.0013	34.63	.0012	1.084

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0010**	**.0007**	**.0462**	**-.0004**	**.0060**	**.0003**	**-.0002**	**-.0003**	**.0030**
Stddev	.0009	.0021	.0021	.0002	.0001	.0003	.0004	.0001	.0002
%RSD	84.97	318.6	4.513	41.26	1.468	106.0	161.9	43.83	5.313
#1	.0016	.0030	.0466	-.0004	.0059	.0005	-.0001	-.0002	.0030
#2	.0000	.0002	.0480	-.0003	.0060	.0003	-.0006	-.0002	.0031
#3	.0014	-.0012	.0439	-.0006	.0061	-.0000	.0001	-.0004	.0028

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7663.2**	**36267.**	**6411.7**
Stddev	226.4	303.	22.5
%RSD	2.9542	.83447	.35160
#1	7513.5	35918.	6397.7
#2	7552.4	36459.	6437.7
#3	7923.6	36423.	6399.6

Sample Name: WG1186274-1,C Acquired: 12/6/2018 13:01:06 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: LC Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0069**	**.0014**	**.0029**	**.0038**	**.0001**	**-.0013**	**.2485**	**-.0000**	**.0001**
Stddev	.0005	.0031	.0006	.0008	.0001	.0000	.0010	.0021	.0000	.0001
%RSD	676.5	44.80	43.38	26.92	1.850	33.43	77.01	.8289	95.89	83.49
#1	-.0001	.0054	.0016	.0031	.0038	.0001	-.0002	.2493	-.0001	.0002
#2	.0006	.0104	.0007	.0035	.0039	.0001	-.0021	.2500	-.0001	.0001
#3	-.0003	.0049	.0018	.0020	.0038	.0001	-.0017	.2461	.0000	.0000

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008**	**.0026**	**.0030**	**.0663**	**.0126**	**.0021**	**.0013**	**184.6**	**.0005**	**.0023**
Stddev	.0001	.0002	.0008	.0334	.0019	.0002	.0002	2.2	.0003	.0013
%RSD	19.39	8.284	25.71	50.28	15.35	11.19	14.53	1.214	50.03	55.29
#1	.0007	.0026	.0039	.0283	.0125	.0024	.0014	184.4	.0008	.0035
#2	.0009	.0024	.0029	.0801	.0146	.0020	.0014	187.0	.0003	.0025
#3	.0007	.0029	.0023	.0906	.0107	.0019	.0011	182.5	.0004	.0010

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006**	**.0000**	**.0267**	**.0017**	**.0011**	**.0003**	**.0002**	**-.0002**	**.0058**
Stddev	.0003	.0005	.0088	.0002	.0001	.0003	.0005	.0001	.0003
%RSD	57.51	3776.	33.09	10.72	10.47	93.36	282.5	72.01	5.115
#1	.0004	-.0001	.0241	.0018	.0010	.0007	.0002	-.0001	.0058
#2	.0010	.0006	.0366	.0015	.0012	.0001	-.0003	-.0001	.0060
#3	.0003	-.0004	.0195	.0019	.0011	.0002	.0006	-.0003	.0055

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7372.2**	**34999.**	**6210.5**
Stddev	210.3	237.	74.9
%RSD	2.8530	.67623	1.2060
#1	7279.9	35262.	6229.2
#2	7223.7	34803.	6128.0
#3	7612.8	34932.	6274.3

Sample Name: WG1186274-2,C Acquired: 12/6/2018 13:06:17 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: LC Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0472**	**2.120**	**.1229**	**1.091**	**2.097**	**.0508**	**-.0039**	**10.29**	**.0525**	**.5027**
Stddev	.0004	.021	.0024	.024	.007	.0002	.0009	.05	.0011	.0101
%RSD	.7611	.9988	1.971	2.157	.3178	.3054	24.35	.5303	2.008	2.019
#1	.0470	2.097	.1227	1.101	2.090	.0507	-.0035	10.25	.0529	.5072
#2	.0470	2.139	.1254	1.108	2.103	.0510	-.0032	10.28	.0533	.5098
#3	.0476	2.122	.1205	1.064	2.098	.0507	-.0050	10.35	.0513	.4911

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2084**	**.2613**	**1.046**	**11.51**	**10.26**	**.4781**	**1.016**	**188.1**	**.4896**	**.4854**
Stddev	.0023	.0025	.003	.05	.09	.0013	.020	1.6	.0106	.0102
%RSD	1.096	.9532	.2593	.4297	.8778	.2674	1.997	.8597	2.159	2.096
#1	.2073	.2603	1.045	11.45	10.25	.4772	1.024	186.3	.4942	.4882
#2	.2068	.2596	1.049	11.55	10.19	.4796	1.031	188.6	.4970	.4939
#3	.2110	.2642	1.044	11.53	10.36	.4776	.9930	189.4	.4775	.4742

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5215**	**.1260**	**.7879**	**.9787**	**1.002**	**1.022**	**.1108**	**.5200**	**.5333**
Stddev	.0117	.0020	.0201	.0210	.004	.010	.0023	.0048	.0117
%RSD	2.236	1.556	2.548	2.144	.4405	1.012	2.101	.9168	2.190
#1	.5256	.1256	.7978	.9873	.9984	1.016	.1121	.5180	.5377
#2	.5306	.1282	.8011	.9941	1.007	1.017	.1123	.5166	.5422
#3	.5083	.1244	.7648	.9548	1.002	1.034	.1082	.5254	.5201

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7344.0**	**34579.**	**6177.6**
Stddev	126.8	236.	36.8
%RSD	1.7267	.68240	.59648
#1	7286.5	34695.	6189.6
#2	7256.2	34734.	6206.9
#3	7489.4	34307.	6136.2

Sample Name: L1849479-01,C Acquired: 12/6/2018 13:11:12 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: LC Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**.0795**	**.0019**	**.0099**	**.1247**	**.0001**	**-.0021**	**23.15**	**.0013**	**.0031**
Stddev	.0000	.0040	.0007	.0006	.0023	.0000	.0004	.49	.0001	.0002
%RSD	17.63	5.068	38.44	5.990	1.820	24.03	17.55	2.108	4.909	7.822
#1	-.0001	.0749	.0016	.0097	.1228	.0001	-.0018	22.68	.0013	.0032
#2	-.0001	.0809	.0014	.0106	.1242	.0001	-.0021	23.12	.0013	.0032
#3	-.0002	.0826	.0027	.0096	.1272	.0001	-.0026	23.66	.0012	.0028

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0009**	**.0085**	**.1365**	**.5532**	**.9771**	**.2724**	**.0034**	**182.3**	**.0068**	**.0186**
Stddev	.0005	.0001	.0034	.0016	.0162	.0043	.0003	2.0	.0002	.0005
%RSD	53.88	1.184	2.458	.2833	1.655	1.564	9.088	1.114	2.221	2.530
#1	.0003	.0085	.1330	.5550	.9623	.2689	.0037	181.3	.0066	.0186
#2	.0012	.0086	.1397	.5520	.9746	.2712	.0034	181.0	.0069	.0191
#3	.0012	.0084	.1367	.5527	.9944	.2772	.0031	184.7	.0068	.0182

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0025**	**.0006**	**1.056**	**.0100**	**.1241**	**.0014**	**.0006**	**.0004**	**.1139**
Stddev	.0006	.0014	.038	.0009	.0020	.0001	.0012	.0002	.0036
%RSD	23.06	223.3	3.597	8.980	1.580	9.037	189.4	49.11	3.176
#1	.0020	.0010	1.070	.0110	.1224	.0013	.0012	.0005	.1157
#2	.0023	.0018	1.085	.0097	.1237	.0014	.0013	.0004	.1162
#3	.0031	-.0009	1.013	.0093	.1263	.0015	-.0007	.0002	.1097

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7329.9**	**34771.**	**6207.1**
Stddev	193.3	46.	92.3
%RSD	2.6377	.13170	1.4871
#1	7207.1	34784.	6297.9
#2	7229.8	34810.	6210.2
#3	7552.7	34721.	6113.3

Sample Name: CCV Acquired: 12/6/2018 13:16:20 Type: QC
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: LC Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4787**	**.5308**	**.5128**	**.5031**	**.5237**	**.4915**	**-.0030**	**.4878**	**.4951**	**.5057**
Stddev	.0006	.0083	.0081	.0057	.0011	.0022	.0002	.0110	.0061	.0063
%RSD	.1328	1.569	1.573	1.128	.2091	.4433	6.577	2.260	1.229	1.253
#1	.4787	.5384	.5175	.5065	.5246	.4934	-.0028	.4994	.4978	.5090
#2	.4793	.5219	.5174	.5062	.5225	.4891	-.0030	.4775	.4993	.5097
#3	.4781	.5320	.5035	.4965	.5241	.4921	-.0031	.4864	.4881	.4984
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5073**	**.5150**	**.4908**	**4.701**	**.5120**	**.4961**	**.5035**	**9.569**	**.4919**	**.5185**
Stddev	.0009	.0007	.0043	.027	.0025	.0055	.0055	.030	.0062	.0069
%RSD	.1854	.1405	.8743	.5736	.4845	1.115	1.093	.3143	1.267	1.324
#1	.5062	.5144	.4915	4.732	.5139	.5006	.5064	9.602	.4961	.5227
#2	.5078	.5149	.4862	4.682	.5092	.4899	.5070	9.544	.4948	.5221
#3	.5079	.5158	.4947	4.689	.5130	.4977	.4972	9.560	.4847	.5106
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5158**	**.5121**	**5.138**	**.5082**	**.4915**	**.4764**	**.5029**	**.5068**	**.4936**
Stddev	.0061	.0036	.054	.0051	.0019	.0003	.0069	.0007	.0065
%RSD	1.184	.7057	1.048	1.008	.3923	.0718	1.374	.1404	1.326
#1	.5208	.5144	5.169	.5104	.4933	.4761	.5069	.5064	.4969
#2	.5176	.5139	5.169	.5118	.4894	.4765	.5069	.5076	.4977
#3	.5090	.5079	5.075	.5023	.4918	.4767	.4949	.5064	.4860
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7764.4**	**37054.**	**6470.4**
Stddev	87.6	89.	24.4
%RSD	1.1281	.23971	.37727
#1	7712.3	37147.	6444.4
#2	7715.4	36970.	6474.0
#3	7865.6	37045.	6492.9

Sample Name: CCB Acquired: 12/6/2018 13:21:09 Type: QC
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: LC Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**.0010**	**.0001**	**-.0008**	**.0002**	**.0001**	**-.0001**	**.0044**	**.0001**	**.0000**
Stddev	.0004	.0018	.0010	.0003	.0002	.0001	.0003	.0058	.0000	.0001
%RSD	490.9	184.9	1617.	38.80	80.27	61.59	246.2	132.2	32.12	748.9
#1	.0001	.0021	.0006	-.0005	.0001	.0001	.0000	.0103	.0001	-.0001
#2	-.0006	-.0011	.0006	-.0011	.0004	.0001	.0000	-.0012	.0001	-.0001
#3	.0002	.0019	-.0011	-.0008	.0001	.0002	-.0004	.0041	.0000	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**.0005**	**-.0036**	**.0238**	**.0039**	**.0005**	**.0011**	**.0809**	**-.0002**	**-.0005**
Stddev	.0002	.0001	.0019	.0225	.0004	.0003	.0003	.0049	.0001	.0008
%RSD	4706.	19.02	51.80	94.53	11.60	72.02	28.21	6.036	27.70	166.1
#1	.0001	.0005	-.0020	-.0003	.0043	.0006	.0014	.0822	-.0002	-.0003
#2	.0001	.0007	-.0057	.0275	.0035	.0007	.0010	.0850	-.0001	.0002
#3	-.0002	.0005	-.0031	.0442	.0038	.0001	.0008	.0755	-.0002	-.0014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0016**	**.0001**	**-.0163**	**.0022**	**.0000**	**.0001**	**.0002**	**-.0003**	**-.0000**
Stddev	.0001	.0015	.0009	.0004	.0001	.0001	.0000	.0000	.0000
%RSD	8.305	1823.	5.241	18.41	440.4	37.75	19.43	11.47	161.8
#1	-.0016	-.0001	-.0156	.0027	-.0000	.0001	.0002	-.0002	.0000
#2	-.0018	.0017	-.0160	.0019	-.0000	.0002	.0001	-.0003	-.0001
#3	-.0015	-.0013	-.0173	.0021	.0001	.0002	.0002	-.0003	-.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7832.6**	**36976.**	**6436.9**
Stddev	303.2	490.	73.3
%RSD	3.8705	1.3242	1.1385
#1	7648.7	36488.	6521.2
#2	7666.6	36974.	6401.4
#3	8182.5	37467.	6388.2

Sample Name: WG1186274-3,C Acquired: 12/6/2018 13:26:15 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: LC Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0490**	**2.203**	**.1267**	**1.120**	**2.245**	**.0517**	**-.0030**	**32.55**	**.0548**	**.5167**
Stddev	.0007	.025	.0032	.031	.029	.0008	.0010	.42	.0016	.0141
%RSD	1.518	1.134	2.530	2.742	1.289	1.484	32.94	1.299	2.861	2.735
#1	.0486	2.175	.1289	1.141	2.212	.0508	-.0041	32.06	.0558	.5253
#2	.0485	2.222	.1282	1.135	2.258	.0520	-.0024	32.81	.0557	.5243
#3	.0498	2.212	.1231	1.085	2.266	.0522	-.0024	32.77	.0530	.5004

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2146**	**.2742**	**1.186**	**12.15**	**11.36**	**.8213**	**1.034**	**190.3**	**.5064**	**.5137**
Stddev	.0025	.0028	.020	.13	.17	.0125	.028	2.5	.0142	.0147
%RSD	1.146	1.022	1.710	1.033	1.519	1.518	2.666	1.337	2.801	2.861
#1	.2134	.2730	1.163	12.01	11.16	.8069	1.051	187.3	.5157	.5249
#2	.2129	.2723	1.199	12.23	11.42	.8278	1.048	191.7	.5133	.5192
#3	.2174	.2775	1.197	12.22	11.49	.8292	1.002	191.7	.4901	.4971

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5362**	**.1287**	**1.806**	**1.008**	**1.127**	**1.041**	**.1128**	**.5339**	**.6467**
Stddev	.0142	.0030	.047	.030	.013	.012	.0030	.0058	.0188
%RSD	2.650	2.301	2.594	2.960	1.175	1.184	2.669	1.090	2.911
#1	.5462	.1296	1.837	1.027	1.111	1.037	.1152	.5310	.6587
#2	.5424	.1310	1.830	1.022	1.134	1.032	.1137	.5302	.6564
#3	.5199	.1253	1.753	.9732	1.134	1.055	.1094	.5407	.6250

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7352.1**	**34619.**	**6227.2**
Stddev	158.0	332.	70.6
%RSD	2.1496	.95989	1.1335
#1	7246.6	34693.	6308.6
#2	7275.8	34907.	6190.6
#3	7533.8	34255.	6182.5

Sample Name: WG1186274-4,C Acquired: 12/6/2018 13:31:11 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: LC Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**.0823**	**.0013**	**.0082**	**.1176**	**.0001**	**-.0014**	**21.97**	**.0012**	**.0030**
Stddev	.0002	.0153	.0009	.0007	.0018	.0000	.0008	.35	.0001	.0002
%RSD	56.07	18.55	66.82	8.624	1.537	38.84	58.16	1.588	5.378	5.732
#1	.0003	.0848	.0014	.0086	.1175	.0001	-.0005	21.73	.0012	.0032
#2	.0002	.0659	.0004	.0085	.1195	.0001	-.0019	22.37	.0012	.0030
#3	.0007	.0961	.0022	.0074	.1159	.0001	-.0017	21.81	.0011	.0028

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0013**	**.0078**	**.1323**	**.4838**	**.9286**	**.2566**	**.0017**	**174.0**	**.0064**	**.0175**
Stddev	.0002	.0001	.0029	.0536	.0067	.0059	.0003	2.9	.0002	.0010
%RSD	17.40	1.190	2.215	11.08	.7241	2.294	17.77	1.656	2.923	5.475
#1	.0011	.0079	.1295	.4503	.9238	.2544	.0020	173.6	.0065	.0183
#2	.0013	.0077	.1353	.5456	.9363	.2633	.0017	177.0	.0063	.0178
#3	.0016	.0079	.1320	.4554	.9257	.2522	.0014	171.3	.0066	.0164

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**.0006**	**.9949**	**.0022**	**.1170**	**.0012**	**.0003**	**.0002**	**.1106**
Stddev	.0018	.0005	.0341	.0004	.0019	.0001	.0006	.0003	.0035
%RSD	1448.	77.89	3.423	18.16	1.604	11.66	168.5	148.4	3.163
#1	.0018	.0011	1.016	.0022	.1166	.0013	-.0001	.0000	.1131
#2	-.0005	.0007	1.013	.0025	.1190	.0013	.0010	.0006	.1122
#3	-.0016	.0001	.9556	.0017	.1153	.0010	.0002	.0000	.1066

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7437.5**	**35106.**	**6286.6**
Stddev	187.8	90.	50.2
%RSD	2.5257	.25775	.79910
#1	7315.1	35037.	6317.8
#2	7343.6	35208.	6228.6
#3	7653.8	35072.	6313.3

Sample Name: WG1186274-5,C Acquired: 12/6/2018 13:36:18 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: LC Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0521**	**2.149**	**.1263**	**1.107**	**2.180**	**.0499**	**-.0028**	**31.80**	**.0535**	**.5038**
Stddev	.0002	.026	.0042	.037	.024	.0005	.0001	.39	.0018	.0168
%RSD	.4177	1.200	3.304	3.381	1.081	1.038	4.109	1.223	3.456	3.336
#1	.0521	2.132	.1296	1.126	2.162	.0495	-.0027	31.54	.0545	.5133
#2	.0523	2.137	.1276	1.130	2.172	.0498	-.0029	31.62	.0546	.5138
#3	.0519	2.179	.1216	1.063	2.207	.0505	-.0027	32.25	.0514	.4844

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2058**	**.2676**	**1.141**	**11.95**	**11.00**	**.7237**	**1.030**	**185.5**	**.4942**	**.5100**
Stddev	.0006	.0007	.021	.17	.15	.0113	.034	2.2	.0172	.0168
%RSD	.2825	.2437	1.794	1.420	1.358	1.559	3.273	1.171	3.485	3.297
#1	.2053	.2670	1.127	11.88	10.93	.7146	1.049	183.0	.5042	.5191
#2	.2056	.2675	1.131	11.83	10.90	.7203	1.049	187.1	.5041	.5203
#3	.2064	.2683	1.165	12.14	11.17	.7363	.9906	186.3	.4743	.4906

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5252**	**.1260**	**1.551**	**.9967**	**1.108**	**1.016**	**.1113**	**.5163**	**.6321**
Stddev	.0187	.0037	.050	.0350	.015	.002	.0041	.0008	.0217
%RSD	3.565	2.922	3.222	3.513	1.318	.1886	3.708	.1617	3.430
#1	.5352	.1283	1.575	1.018	1.099	1.017	.1145	.5166	.6443
#2	.5368	.1279	1.584	1.016	1.100	1.014	.1128	.5154	.6449
#3	.5036	.1218	1.493	.9563	1.124	1.017	.1067	.5170	.6071

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7331.2**	**34906.**	**6305.1**
Stddev	211.4	61.	66.1
%RSD	2.8839	.17352	1.0482
#1	7209.5	34846.	6330.1
#2	7208.8	34904.	6355.0
#3	7575.4	34967.	6230.1

Sample Name: WG1186274-6,C,5 Acquired: 12/6/2018 13:41:14 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: LC Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**.0158**	**-.0002**	**.0027**	**.0241**	**.0000**	**-.0000**	**4.418**	**.0003**	**.0005**
Stddev	.0003	.0050	.0004	.0002	.0002	.0001	.0009	.011	.0000	.0001
%RSD	2392.	31.27	190.7	8.380	1.011	920.5	2946.	.2572	4.417	18.78
#1	.0003	.0102	-.0002	.0028	.0240	-.0001	-.0001	4.430	.0003	.0005
#2	.0000	.0193	-.0006	.0029	.0240	.0001	-.0009	4.407	.0003	.0004
#3	-.0003	.0181	.0002	.0025	.0244	.0001	.0009	4.418	.0002	.0006

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0024**	**.0290**	**.1247**	**.2010**	**.0522**	**.0020**	**34.05**	**.0017**	**.0031**
Stddev	.0002	.0003	.0008	.0181	.0044	.0001	.0003	.23	.0001	.0017
%RSD	68.10	13.94	2.663	14.53	2.171	.1710	15.06	.6702	8.787	54.83
#1	.0002	.0023	.0288	.1257	.2055	.0522	.0022	33.84	.0018	.0013
#2	.0004	.0028	.0284	.1423	.1968	.0522	.0020	34.01	.0016	.0047
#3	.0001	.0022	.0299	.1061	.2006	.0523	.0016	34.29	.0015	.0033

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0001**	**.1815**	**.0020**	**.0235**	**.0007**	**.0002**	**-.0001**	**.0229**
Stddev	.0005	.0011	.0077	.0004	.0000	.0001	.0005	.0004	.0009
%RSD	215.1	839.0	4.234	21.35	.0832	19.30	259.4	471.3	3.840
#1	.0007	-.0011	.1865	.0023	.0235	.0008	.0007	.0003	.0233
#2	-.0001	.0012	.1854	.0022	.0235	.0008	.0002	-.0005	.0235
#3	.0000	.0002	.1727	.0015	.0234	.0005	-.0003	-.0000	.0219

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7671.8**	**36160.**	**6367.0**
Stddev	225.8	251.	46.7
%RSD	2.9438	.69310	.73275
#1	7558.7	36264.	6316.1
#2	7524.9	36341.	6407.7
#3	7931.9	35874.	6377.3

Sample Name: L1849254-01,C Acquired: 12/6/2018 13:46:15 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: LC Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**.0870**	**.0013**	**.0151**	**.0685**	**.0000**	**-.0014**	**6.307**	**.0002**	**.0018**
Stddev	.0002	.0049	.0014	.0009	.0016	.0000	.0008	.137	.0000	.0001
%RSD	465.4	5.683	106.3	5.628	2.336	20.30	59.43	2.171	6.607	5.456
#1	.0002	.0815	.0011	.0156	.0671	.0000	-.0015	6.189	.0001	.0019
#2	.0001	.0888	.0000	.0156	.0681	.0000	-.0021	6.275	.0002	.0017
#3	-.0002	.0909	.0027	.0141	.0703	.0000	-.0005	6.457	.0001	.0017

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**.0028**	**.0635**	**.3635**	**.2623**	**.2798**	**.0004**	**172.8**	**.0007**	**.0678**
Stddev	.0003	.0002	.0024	.0173	.0019	.0051	.0002	1.8	.0001	.0014
%RSD	60.32	8.915	3.842	4.752	.7376	1.829	39.46	1.043	18.08	2.115
#1	.0004	.0029	.0630	.3515	.2603	.2745	.0006	170.8	.0006	.0681
#2	.0003	.0025	.0613	.3558	.2624	.2802	.0003	174.1	.0007	.0690
#3	.0009	.0029	.0661	.3833	.2641	.2847	.0003	173.7	.0008	.0662

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0011**	**.0010**	**.1749**	**.0049**	**.0330**	**.0008**	**.0003**	**-.0001**	**.0375**
Stddev	.0008	.0011	.0054	.0002	.0005	.0003	.0002	.0001	.0013
%RSD	68.66	108.1	3.097	3.602	1.601	35.60	63.45	183.7	3.553
#1	-.0014	.0003	.1777	.0051	.0324	.0009	.0001	-.0001	.0380
#2	-.0017	.0022	.1783	.0048	.0331	.0005	.0005	-.0001	.0384
#3	-.0002	.0005	.1687	.0047	.0334	.0009	.0004	.0001	.0360

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7462.5**	**35301.**	**6304.9**
Stddev	216.9	37.	89.1
%RSD	2.9067	.10402	1.4125
#1	7350.8	35303.	6397.6
#2	7324.1	35337.	6296.9
#3	7712.5	35264.	6220.1

Sample Name: L1849479-02,C Acquired: 12/6/2018 13:51:24 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: LC Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**.0816**	**.0015**	**.0101**	**.1143**	**.0001**	**-.0010**	**16.88**	**.0004**	**.0020**
Stddev	.0004	.0075	.0013	.0005	.0004	.0000	.0010	.14	.0000	.0001
%RSD	334.6	9.141	86.56	4.768	.3617	63.33	105.9	.8461	10.01	4.371
#1	-.0003	.0899	.0015	.0106	.1141	.0001	-.0007	16.76	.0004	.0021
#2	-.0003	.0755	.0027	.0102	.1148	.0000	-.0021	17.04	.0005	.0019
#3	.0003	.0793	.0002	.0096	.1141	.0001	-.0001	16.84	.0004	.0020

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008**	**.0026**	**.1215**	**.5603**	**1.031**	**.1547**	**.0001**	**186.3**	**.0058**	**.0038**
Stddev	.0002	.0000	.0011	.0191	.003	.0009	.0001	3.9	.0004	.0004
%RSD	32.76	1.822	.9206	3.417	.2477	.5590	45.91	2.074	7.009	9.962
#1	.0010	.0026	.1204	.5821	1.029	.1549	.0001	182.3	.0058	.0042
#2	.0007	.0026	.1227	.5461	1.034	.1553	.0002	186.5	.0062	.0036
#3	.0005	.0025	.1214	.5528	1.030	.1537	.0002	190.0	.0054	.0035

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0004**	**.0006**	**1.016**	**.0003**	**.0876**	**-.0000**	**-.0003**	**.0010**	**.0572**
Stddev	.0009	.0017	.042	.0005	.0009	.0002	.0003	.0002	.0024
%RSD	213.0	300.3	4.124	166.4	1.012	679.0	112.9	17.95	4.180
#1	.0005	.0006	1.048	.0007	.0871	-.0002	-.0004	.0011	.0591
#2	-.0004	.0022	1.030	.0004	.0886	-.0001	.0001	.0008	.0580
#3	-.0014	-.0011	.9684	-.0002	.0870	.0001	-.0005	.0010	.0545

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7454.3**	**34959.**	**6261.9**
Stddev	230.2	244.	37.5
%RSD	3.0884	.69755	.59855
#1	7281.1	34690.	6301.0
#2	7366.2	35167.	6226.3
#3	7715.5	35019.	6258.3

Sample Name: L1849479-03,C Acquired: 12/6/2018 13:56:33 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: LC Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment: STOP

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**.0787**	**-.0004**	**.0114**	**.1108**	**.0001**	**-.0015**	**26.72**	**.0003**	**.0019**
Stddev	.0003	.0048	.0007	.0010	.0003	.0000	.0003	.17	.0000	.0001
%RSD	6465.	6.073	185.3	8.587	.2588	36.50	16.80	.6318	5.289	6.200
#1	.0001	.0738	-.0011	.0117	.1105	.0001	-.0018	26.54	.0003	.0020
#2	-.0003	.0789	-.0004	.0122	.1109	.0001	-.0013	26.88	.0003	.0017
#3	.0003	.0834	.0003	.0103	.1111	.0001	-.0014	26.75	.0003	.0019

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**.0027**	**.0462**	**.7094**	**1.059**	**.1970**	**-.0000**	**182.0**	**.0036**	**.0032**
Stddev	.0001	.0002	.0033	.0177	.010	.0023	.0001	4.0	.0001	.0010
%RSD	34.05	7.378	7.176	2.490	.9118	1.188	226.1	2.186	2.057	32.69
#1	.0003	.0029	.0469	.6890	1.048	.1946	.0000	178.7	.0036	.0029
#2	.0004	.0025	.0491	.7196	1.067	.1973	-.0000	186.5	.0037	.0043
#3	.0006	.0028	.0426	.7196	1.061	.1992	-.0001	180.9	.0036	.0023

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0010**	**.0006**	**1.867**	**.0003**	**.1370**	**-.0002**	**-.0001**	**.0008**	**.0383**
Stddev	.0009	.0004	.068	.0002	.0002	.0003	.0004	.0001	.0014
%RSD	84.84	63.01	3.627	72.79	.1643	169.8	674.8	14.32	3.755
#1	-.0009	.0002	1.894	.0006	.1367	.0002	.0002	.0009	.0388
#2	-.0019	.0009	1.916	.0001	.1371	-.0003	.0001	.0007	.0394
#3	-.0002	.0007	1.790	.0003	.1372	-.0004	-.0005	.0008	.0367

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7458.4**	**35335.**	**6208.3**
Stddev	236.3	374.	60.9
%RSD	3.1676	1.0598	.98048
#1	7353.5	35633.	6278.0
#2	7292.7	34915.	6181.4
#3	7728.9	35457.	6165.5

Sample Name: L1849518-01,C Acquired: 12/6/2018 14:01:42 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: LC Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**.0936**	**.0018**	**.0042**	**.0308**	**.0000**	**-.0012**	**10.24**	**.0008**	**.0026**
Stddev	.0001	.0063	.0010	.0004	.0003	.0001	.0009	.05	.0000	.0002
%RSD	475.5	6.743	56.93	8.500	1.066	142.0	76.75	.4749	3.182	6.552
#1	.0001	.1003	.0016	.0041	.0304	.0001	-.0023	10.20	.0008	.0026
#2	-.0002	.0877	.0008	.0040	.0308	.0001	-.0007	10.23	.0008	.0027
#3	.0000	.0928	.0028	.0047	.0311	-.0000	-.0007	10.30	.0007	.0024

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**.0206**	**.0242**	**.3470**	**.5627**	**.1268**	**-.0001**	**169.7**	**.0035**	**.6883**
Stddev	.0001	.0002	.0019	.0134	.0027	.0007	.0000	1.5	.0001	.0281
%RSD	29.35	.9750	7.981	3.866	.4777	.5850	30.46	.8899	2.656	4.084
#1	.0004	.0204	.0241	.3413	.5604	.1263	-.0002	168.2	.0034	.7029
#2	.0005	.0208	.0223	.3623	.5656	.1265	-.0001	169.6	.0036	.7060
#3	.0007	.0205	.0261	.3374	.5620	.1276	-.0001	171.2	.0034	.6559

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0012**	**-.0002**	**.3690**	**-.0003**	**.0321**	**-.0004**	**.0001**	**-.0001**	**.2631**
Stddev	.0003	.0017	.0116	.0003	.0001	.0002	.0012	.0003	.0102
%RSD	23.99	845.4	3.132	109.1	.3792	60.60	1151.	180.5	3.866
#1	-.0013	.0004	.3732	-.0006	.0321	-.0002	.0011	-.0005	.2684
#2	-.0014	-.0022	.3778	.0000	.0320	-.0006	-.0012	.0000	.2696
#3	-.0009	.0011	.3559	-.0002	.0322	-.0004	.0003	.0000	.2514

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7496.3**	**35409.**	**6304.1**
Stddev	237.8	64.	35.6
%RSD	3.1723	.18092	.56437
#1	7376.4	35338.	6340.7
#2	7342.3	35462.	6301.9
#3	7770.2	35427.	6269.6

Sample Name: L1849518-02,C Acquired: 12/6/2018 14:06:50 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: LC Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0008**	**.0716**	**.0006**	**.0044**	**.0324**	**.0001**	**-.0009**	**7.618**	**.0006**	**.0020**
Stddev	.0002	.0042	.0005	.0005	.0004	.0001	.0006	.120	.0000	.0002
%RSD	26.27	5.816	84.57	11.76	1.360	56.65	65.19	1.577	8.171	9.295
#1	-.0006	.0754	.0011	.0050	.0320	.0001	-.0002	7.527	.0006	.0021
#2	-.0010	.0721	.0002	.0042	.0329	.0002	-.0010	7.755	.0006	.0021
#3	-.0010	.0672	.0004	.0040	.0323	.0001	-.0014	7.573	.0006	.0018

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0168**	**.0326**	**.4680**	**.5473**	**.1330**	**-.0002**	**183.6**	**.0031**	**.0362**
Stddev	.0001	.0002	.0037	.0265	.0053	.0022	.0001	2.7	.0000	.0008
%RSD	16.43	1.482	11.44	5.656	.9603	1.687	46.24	1.482	1.104	2.219
#1	.0003	.0166	.0357	.4382	.5413	.1310	-.0001	181.4	.0031	.0370
#2	.0003	.0171	.0336	.4889	.5496	.1354	-.0002	186.6	.0031	.0363
#3	.0004	.0168	.0285	.4768	.5510	.1326	-.0003	182.7	.0031	.0354

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0018**	**.0010**	**.2749**	**-.0005**	**.0269**	**-.0001**	**.0000**	**-.0002**	**.1491**
Stddev	.0001	.0021	.0120	.0004	.0003	.0001	.0010	.0002	.0033
%RSD	7.467	200.1	4.360	89.65	1.014	64.34	35250.	105.2	2.206
#1	-.0019	.0028	.2878	-.0003	.0267	-.0002	-.0012	-.0005	.1515
#2	-.0017	.0015	.2729	-.0002	.0272	-.0001	.0005	-.0001	.1505
#3	-.0016	-.0012	.2640	-.0009	.0267	-.0001	.0007	-.0000	.1453

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7468.7**	**35316.**	**6270.9**
Stddev	138.3	20.	53.1
%RSD	1.8519	.05778	.84715
#1	7359.6	35322.	6307.1
#2	7422.1	35293.	6209.9
#3	7624.2	35333.	6295.7

Sample Name: L1849518-03,C Acquired: 12/6/2018 14:11:57 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: LC Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**.0734**	**.0015**	**.0051**	**.0297**	**.0001**	**-.0003**	**8.313**	**.0005**	**.0019**
Stddev	.0001	.0051	.0012	.0003	.0002	.0001	.0004	.040	.0000	.0001
%RSD	139.6	6.961	75.21	6.022	.5529	56.00	126.5	.4760	1.933	5.178
#1	-.0000	.0682	.0008	.0054	.0296	.0000	-.0003	8.270	.0005	.0020
#2	.0000	.0736	.0010	.0050	.0295	.0001	-.0008	8.347	.0005	.0018
#3	-.0001	.0784	.0029	.0048	.0299	.0001	.0001	8.322	.0005	.0019

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0167**	**.0119**	**.4065**	**.7018**	**.1217**	**-.0005**	**180.7**	**.0030**	**.0456**
Stddev	.0001	.0001	.0020	.0269	.0016	.0008	.0001	2.6	.0001	.0018
%RSD	72.92	.3004	16.56	6.611	.2213	.6605	14.42	1.446	3.627	4.010
#1	.0003	.0168	.0129	.3759	.7001	.1209	-.0005	182.7	.0031	.0466
#2	.0003	.0168	.0132	.4174	.7031	.1225	-.0004	181.6	.0030	.0467
#3	.0000	.0167	.0097	.4262	.7023	.1217	-.0005	177.7	.0029	.0435

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0017**	**.0012**	**.2627**	**.0001**	**.0277**	**-.0002**	**-.0005**	**-.0002**	**.1313**
Stddev	.0011	.0002	.0066	.0003	.0002	.0001	.0000	.0002	.0043
%RSD	65.03	20.30	2.507	531.1	.6767	57.78	3.606	128.8	3.239
#1	-.0005	.0011	.2683	.0004	.0275	-.0003	-.0005	.0000	.1339
#2	-.0019	.0015	.2644	-.0001	.0279	-.0001	-.0005	-.0004	.1337
#3	-.0026	.0011	.2554	-.0002	.0278	-.0002	-.0005	-.0002	.1264

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7485.2**	**35491.**	**6267.5**
Stddev	214.6	255.	36.8
%RSD	2.8672	.71968	.58678
#1	7344.4	35264.	6309.4
#2	7379.0	35441.	6252.3
#3	7732.2	35768.	6240.8

Sample Name: CCV Acquired: 12/6/2018 14:18:13 Type: QC
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: LC Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4720**	**.5147**	**.5126**	**.4999**	**.5192**	**.4846**	**-.0032**	**.4848**	**.4923**	**.5029**
Stddev	.0008	.0092	.0075	.0052	.0051	.0034	.0002	.0063	.0050	.0052
%RSD	.1663	1.793	1.468	1.032	.9836	.7049	7.403	1.302	1.017	1.037
#1	.4726	.5230	.5166	.5045	.5229	.4867	-.0031	.4858	.4954	.5064
#2	.4722	.5164	.5172	.5011	.5212	.4865	-.0035	.4905	.4950	.5055
#3	.4711	.5048	.5039	.4943	.5134	.4807	-.0030	.4780	.4866	.4969
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5077**	**.5118**	**.4842**	**4.655**	**.5149**	**.4875**	**.5007**	**9.540**	**.4890**	**.5155**
Stddev	.0027	.0008	.0057	.045	.0015	.0029	.0046	.080	.0054	.0065
%RSD	.5237	.1479	1.171	.9776	.2904	.5858	.9183	.8378	1.094	1.257
#1	.5076	.5120	.4885	4.696	.5162	.4894	.5033	9.586	.4924	.5200
#2	.5104	.5123	.4865	4.663	.5133	.4888	.5034	9.586	.4917	.5186
#3	.5051	.5109	.4778	4.606	.5153	.4842	.4954	9.447	.4828	.5081
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5134**	**.5083**	**5.113**	**.5025**	**.4837**	**.4702**	**.4994**	**.5010**	**.4904**
Stddev	.0065	.0064	.057	.0046	.0049	.0015	.0054	.0012	.0052
%RSD	1.260	1.257	1.107	.9189	1.009	.3280	1.090	.2408	1.051
#1	.5185	.5117	5.153	.5062	.4881	.4689	.5034	.5004	.4942
#2	.5155	.5122	5.138	.5040	.4844	.4719	.5017	.5024	.4925
#3	.5061	.5009	5.048	.4973	.4785	.4697	.4932	.5003	.4845
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7801.0**	**37274.**	**6465.3**
Stddev	77.7	130.	29.4
%RSD	.99636	.34881	.45451
#1	7745.2	37243.	6445.3
#2	7768.0	37162.	6451.6
#3	7889.8	37417.	6499.0

Sample Name: CCB Acquired: 12/6/2018 14:23:04 Type: QC
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: LC Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0013**	**-.0002**	**.0004**	**.0004**	**.0001**	**-.0006**	**-.0009**	**.0001**	**.0000**
Stddev	.0001	.0026	.0001	.0006	.0002	.0000	.0007	.0143	.0000	.0001
%RSD	35.66	203.5	64.76	140.3	49.86	34.15	108.5	1590.	34.62	789.3
#1	.0001	-.0016	-.0002	.0011	.0003	.0001	-.0007	-.0128	.0002	.0001
#2	.0002	.0022	-.0001	.0002	.0002	.0001	.0001	.0149	.0001	-.0001
#3	.0003	.0033	-.0003	-.0000	.0006	.0001	-.0013	-.0048	.0001	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**.0005**	**-.0048**	**.0216**	**.0040**	**.0004**	**.0009**	**.1005**	**.0001**	**-.0004**
Stddev	.0003	.0002	.0010	.0262	.0034	.0004	.0003	.0131	.0000	.0013
%RSD	56.29	28.01	21.77	121.5	85.63	103.8	33.27	13.07	11.60	318.1
#1	.0002	.0006	-.0053	.0515	.0066	.0007	.0012	.1145	.0001	.0011
#2	.0007	.0004	-.0036	.0101	.0053	-.0001	.0010	.0986	.0001	-.0012
#3	.0007	.0007	-.0055	.0031	.0001	.0006	.0006	.0885	.0001	-.0011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0020**	**-.0000**	**-.0151**	**.0025**	**.0001**	**.0003**	**.0002**	**-.0000**	**-.0000**
Stddev	.0010	.0010	.0013	.0008	.0001	.0001	.0005	.0002	.0001
%RSD	52.61	4984.	8.832	32.52	147.6	23.92	210.1	363.5	176.6
#1	-.0008	-.0005	-.0143	.0033	.0001	.0003	-.0003	-.0001	-.0001
#2	-.0025	.0012	-.0145	.0026	-.0000	.0003	.0005	-.0002	.0000
#3	-.0026	-.0007	-.0167	.0016	.0003	.0004	.0005	.0001	-.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7876.0**	**37033.**	**6382.3**
Stddev	319.3	65.	37.8
%RSD	4.0534	.17604	.59273
#1	7704.6	37096.	6407.2
#2	7679.1	37037.	6338.8
#3	8244.3	36966.	6400.9

Sample Name: L1849096-04,T Acquired: 12/6/2018 14:28:08 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: LC Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**.0416**	**.0008**	**.0136**	**.0326**	**.0001**	**-.0015**	**11.60**	**-.0000**	**.0005**
Stddev	.0003	.0003	.0003	.0005	.0007	.0001	.0005	.29	.0000	.0001
%RSD	201.3	.8054	32.40	3.628	2.209	86.30	32.05	2.539	37.21	11.87
#1	-.0003	.0420	.0011	.0141	.0319	.0001	-.0020	11.26	-.0000	.0005
#2	.0002	.0413	.0008	.0136	.0327	.0001	-.0014	11.78	-.0000	.0006
#3	-.0003	.0415	.0006	.0131	.0333	.0000	-.0011	11.77	-.0000	.0004

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**.0024**	**.1540**	**2.257**	**2.142**	**.0608**	**-.0005**	**71.45**	**.0006**	**.0004**
Stddev	.0002	.0002	.0061	.063	.036	.0015	.0000	1.20	.0002	.0002
%RSD	63.66	8.593	3.971	2.779	1.694	2.501	8.099	1.680	28.23	49.04
#1	.0002	.0022	.1470	2.185	2.100	.0591	-.0005	70.08	.0006	.0004
#2	.0006	.0025	.1580	2.300	2.164	.0619	-.0005	72.28	.0008	.0002
#3	.0003	.0026	.1570	2.287	2.161	.0614	-.0005	72.01	.0005	.0006

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0026**	**-.0019**	**4.569**	**.0004**	**.1233**	**-.0005**	**.0006**	**-.0003**	**.0037**
Stddev	.0011	.0003	.040	.0002	.0022	.0004	.0011	.0002	.0001
%RSD	43.80	15.46	.8746	43.76	1.819	86.98	193.1	84.83	3.849
#1	-.0014	-.0018	4.604	.0004	.1208	-.0001	-.0006	-.0003	.0038
#2	-.0037	-.0017	4.576	.0002	.1242	-.0010	.0008	-.0000	.0035
#3	-.0027	-.0022	4.526	.0005	.1250	-.0005	.0016	-.0005	.0037

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7643.1**	**36576.**	**6393.0**
Stddev	48.2	128.	122.9
%RSD	.63113	.35079	1.9219
#1	7605.6	36722.	6534.0
#2	7626.2	36524.	6309.0
#3	7697.5	36482.	6335.9

Sample Name: L1849096-05,T Acquired: 12/6/2018 14:33:07 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: LC Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**.0389**	**.0005**	**.0132**	**.0319**	**.0000**	**-.0011**	**11.25**	**-.0001**	**.0003**
Stddev	.0003	.0044	.0005	.0002	.0001	.0000	.0010	.07	.0000	.0001
%RSD	1354.	11.38	95.95	1.736	.4360	46.15	94.33	.5789	28.77	22.53
#1	.0001	.0391	.0004	.0131	.0319	.0000	-.0013	11.31	-.0001	.0002
#2	.0002	.0433	.0001	.0135	.0321	.0001	-.0019	11.27	-.0001	.0003
#3	-.0003	.0344	.0011	.0131	.0318	.0001	.0000	11.18	-.0000	.0003

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0010**	**.1838**	**2.163**	**2.061**	**.0761**	**-.0006**	**69.39**	**.0006**	**.0010**
Stddev	.0001	.0002	.0017	.018	.021	.0011	.0002	.21	.0001	.0007
%RSD	61.80	24.44	.9163	.8186	.9973	1.445	26.52	.3001	25.27	64.23
#1	.0001	.0013	.1822	2.181	2.079	.0772	-.0006	69.57	.0006	.0003
#2	.0004	.0008	.1855	2.160	2.066	.0750	-.0008	69.44	.0007	.0015
#3	.0002	.0010	.1839	2.146	2.038	.0761	-.0005	69.16	.0004	.0013

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0028**	**-.0017**	**4.517**	**-.0009**	**.1202**	**-.0006**	**.0006**	**-.0002**	**.0039**
Stddev	.0008	.0009	.035	.0005	.0004	.0002	.0002	.0001	.0000
%RSD	28.14	52.76	.7748	48.57	.3024	33.56	34.58	50.67	.9468
#1	-.0036	-.0007	4.531	-.0012	.1205	-.0007	.0004	-.0001	.0040
#2	-.0020	-.0020	4.542	-.0012	.1203	-.0004	.0008	-.0002	.0039
#3	-.0028	-.0023	4.477	-.0004	.1198	-.0006	.0005	-.0002	.0039

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7645.0**	**36211.**	**6451.6**
Stddev	50.1	645.	24.9
%RSD	.65540	1.7811	.38598
#1	7624.9	35466.	6435.3
#2	7608.1	36599.	6439.3
#3	7702.0	36567.	6480.3

Sample Name: L1849096-06,T Acquired: 12/6/2018 14:38:06 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: LC Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**.0511**	**.0007**	**.0137**	**.0328**	**.0000**	**-.0011**	**11.72**	**-.0000**	**.0004**
Stddev	.0002	.0070	.0012	.0004	.0009	.0000	.0011	.33	.0000	.0001
%RSD	323.5	13.68	170.8	2.883	2.832	220.6	98.65	2.835	51.32	22.61
#1	.0001	.0588	.0021	.0141	.0336	.0000	.0001	12.05	-.0000	.0005
#2	.0000	.0452	.0003	.0136	.0318	-.0000	-.0020	11.39	-.0000	.0003
#3	-.0003	.0494	-.0002	.0133	.0329	.0001	-.0015	11.73	-.0000	.0004

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0011**	**.2355**	**2.230**	**2.142**	**.0911**	**-.0006**	**72.09**	**.0005**	**.0007**
Stddev	.0003	.0001	.0099	.043	.051	.0025	.0001	2.15	.0000	.0002
%RSD	91.86	7.308	4.215	1.942	2.371	2.792	19.95	2.985	5.940	27.78
#1	-.0000	.0011	.2455	2.272	2.191	.0933	-.0005	74.31	.0005	.0005
#2	.0005	.0011	.2257	2.185	2.089	.0883	-.0007	70.01	.0005	.0008
#3	.0004	.0010	.2354	2.233	2.145	.0918	-.0007	71.96	.0006	.0008

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0025**	**-.0013**	**4.637**	**-.0006**	**.1258**	**-.0001**	**-.0015**	**-.0001**	**.0042**
Stddev	.0005	.0004	.053	.0004	.0031	.0003	.0005	.0001	.0001
%RSD	21.24	27.87	1.144	56.92	2.434	491.5	32.54	110.9	3.154
#1	-.0019	-.0013	4.679	-.0008	.1289	.0002	-.0011	-.0000	.0042
#2	-.0029	-.0010	4.656	-.0002	.1228	-.0001	-.0020	-.0001	.0043
#3	-.0029	-.0017	4.578	-.0009	.1257	-.0003	-.0014	-.0000	.0040

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7627.6**	**36388.**	**6359.0**
Stddev	68.1	143.	145.1
%RSD	.89323	.39412	2.2819
#1	7577.0	36229.	6225.0
#2	7600.7	36426.	6513.1
#3	7705.0	36509.	6338.9

Sample Name: L1849096-07,T Acquired: 12/6/2018 14:43:06 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: LC Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0012**	**.0407**	**.0003**	**.0132**	**.0314**	**.0000**	**-.0015**	**10.93**	**-.0000**	**.0004**
Stddev	.0002	.0092	.0013	.0001	.0007	.0000	.0001	.29	.0000	.0001
%RSD	20.22	22.49	463.9	.8306	2.254	94.89	5.682	2.675	42.56	25.50
#1	-.0012	.0508	.0017	.0132	.0322	.0000	-.0016	11.26	-.0001	.0005
#2	-.0009	.0329	-.0006	.0131	.0313	-.0000	-.0014	10.85	-.0000	.0005
#3	-.0013	.0385	-.0003	.0133	.0308	.0000	-.0016	10.70	-.0000	.0003

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**.0011**	**.2663**	**2.087**	**2.040**	**.1018**	**-.0007**	**67.94**	**.0007**	**.0003**
Stddev	.0003	.0003	.0083	.050	.047	.0031	.0001	1.70	.0001	.0005
%RSD	90.30	26.77	3.122	2.377	2.296	3.040	8.779	2.508	17.54	195.1
#1	.0001	.0013	.2754	2.145	2.090	.1052	-.0006	69.80	.0008	.0009
#2	.0003	.0008	.2643	2.059	2.031	.1012	-.0007	67.59	.0008	-.0001
#3	.0007	.0012	.2591	2.059	1.998	.0991	-.0008	66.45	.0006	.0001

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0029**	**-.0011**	**4.555**	**-.0013**	**.1173**	**-.0005**	**.0010**	**-.0003**	**.0041**
Stddev	.0002	.0004	.070	.0007	.0028	.0004	.0006	.0002	.0001
%RSD	7.423	37.26	1.536	56.84	2.397	79.25	59.63	79.09	3.010
#1	-.0031	-.0009	4.604	-.0020	.1203	-.0009	.0016	-.0002	.0043
#2	-.0027	-.0008	4.586	-.0005	.1168	-.0001	.0010	-.0002	.0040
#3	-.0030	-.0016	4.475	-.0015	.1147	-.0005	.0004	-.0006	.0041

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7644.6**	**36580.**	**6448.6**
Stddev	95.5	191.	138.4
%RSD	1.2487	.52306	2.1468
#1	7576.3	36362.	6296.8
#2	7603.9	36721.	6481.2
#3	7753.7	36656.	6567.9

Sample Name: L1849096-08,T Acquired: 12/6/2018 14:48:06 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: LC Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**.0497**	**.0013**	**.0119**	**.0272**	**.0000**	**-.0012**	**9.567**	**-.0000**	**.0004**
Stddev	.0002	.0081	.0008	.0003	.0001	.0000	.0006	.075	.0000	.0001
%RSD	1655.	16.19	58.65	2.433	.5026	20.81	47.40	.7881	38.72	16.90
#1	-.0001	.0410	.0005	.0122	.0273	.0000	-.0011	9.649	-.0000	.0004
#2	.0002	.0513	.0014	.0120	.0272	.0000	-.0018	9.501	-.0000	.0004
#3	-.0002	.0569	.0020	.0116	.0271	.0000	-.0007	9.551	-.0000	.0003

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0012**	**.2467**	**1.739**	**1.754**	**.0384**	**-.0006**	**53.53**	**.0007**	**.0005**
Stddev	.0003	.0001	.0009	.014	.005	.0013	.0001	.43	.0003	.0013
%RSD	221.1	7.669	.3600	.8189	.2755	3.311	16.00	.8111	44.62	247.6
#1	-.0001	.0011	.2457	1.738	1.758	.0392	-.0005	53.99	.0003	-.0008
#2	.0005	.0013	.2470	1.754	1.749	.0390	-.0006	53.49	.0007	.0018
#3	.0000	.0011	.2474	1.726	1.754	.0369	-.0007	53.12	.0009	.0006

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0035**	**-.0012**	**4.669**	**-.0011**	**.1005**	**.0003**	**.0001**	**-.0001**	**.0050**
Stddev	.0002	.0008	.112	.0002	.0007	.0003	.0006	.0003	.0001
%RSD	6.559	66.75	2.403	18.07	.6533	86.80	485.9	260.4	2.591
#1	-.0038	-.0009	4.718	-.0011	.1011	.0002	-.0005	-.0001	.0050
#2	-.0033	-.0005	4.748	-.0013	.1007	.0006	.0005	-.0004	.0051
#3	-.0034	-.0020	4.540	-.0009	.0998	.0001	.0004	.0002	.0048

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7715.6**	**36334.**	**6470.6**
Stddev	152.0	543.	30.9
%RSD	1.9697	1.4936	.47684
#1	7661.8	36575.	6445.4
#2	7597.9	35713.	6505.0
#3	7887.2	36715.	6461.3

Sample Name: L1849096-09,T Acquired: 12/6/2018 14:53:05 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: LC Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**.0635**	**.0010**	**.0120**	**.0238**	**.0001**	**-.0012**	**10.62**	**-.0001**	**.0003**
Stddev	.0003	.0026	.0013	.0004	.0003	.0001	.0002	.22	.0001	.0001
%RSD	226.9	4.098	123.3	3.573	1.138	95.37	14.53	2.056	85.21	30.90
#1	-.0000	.0653	.0017	.0125	.0235	.0001	-.0011	10.43	-.0001	.0002
#2	.0001	.0647	.0018	.0118	.0240	.0001	-.0014	10.86	-.0000	.0004
#3	-.0005	.0605	-.0004	.0118	.0238	.0000	-.0012	10.57	-.0001	.0003

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006**	**.0010**	**.2545**	**1.609**	**1.724**	**.0359**	**-.0008**	**46.38**	**.0008**	**.0016**
Stddev	.0001	.0001	.0048	.030	.030	.0009	.0000	.77	.0001	.0004
%RSD	17.52	5.471	1.888	1.879	1.763	2.476	5.007	1.662	9.673	27.06
#1	.0006	.0009	.2507	1.575	1.703	.0359	-.0008	45.79	.0007	.0013
#2	.0007	.0010	.2599	1.634	1.758	.0368	-.0009	47.25	.0009	.0021
#3	.0005	.0009	.2530	1.619	1.710	.0350	-.0008	46.09	.0008	.0014

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0034**	**-.0019**	**4.798**	**-.0013**	**.0928**	**.0003**	**.0010**	**.0001**	**.0033**
Stddev	.0007	.0013	.078	.0001	.0016	.0002	.0003	.0003	.0001
%RSD	19.89	70.60	1.632	7.203	1.700	84.59	28.56	450.6	1.530
#1	-.0031	-.0034	4.860	-.0013	.0919	.0001	.0009	.0004	.0034
#2	-.0030	-.0009	4.825	-.0012	.0946	.0001	.0008	-.0001	.0034
#3	-.0042	-.0013	4.710	-.0013	.0918	.0005	.0013	-.0001	.0033

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7682.5**	**36710.**	**6457.9**
Stddev	112.1	719.	118.8
%RSD	1.4587	1.9598	1.8394
#1	7595.3	36120.	6561.2
#2	7643.4	36499.	6328.1
#3	7808.9	37512.	6484.4

Sample Name: L1849096-10,T Acquired: 12/6/2018 14:58:06 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: LC Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0002**	**.0502**	**.0005**	**.0127**	**.0333**	**.0000**	**-.0011**	**11.62**	**-.0001**	**.0004**
Stddev	.0002	.0109	.0009	.0002	.0004	.0000	.0006	.25	.0000	.0002
%RSD	111.7	21.76	165.8	1.963	1.171	81.58	57.83	2.123	27.48	35.89
#1	-.0003	.0424	-.0002	.0129	.0337	.0000	-.0015	11.83	-.0001	.0004
#2	-.0004	.0627	.0015	.0128	.0334	.0001	-.0013	11.69	-.0000	.0003
#3	.0000	.0455	.0002	.0124	.0329	.0000	-.0004	11.35	-.0001	.0006

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0012**	**.2282**	**2.243**	**2.134**	**.0906**	**-.0009**	**71.88**	**.0007**	**.0005**
Stddev	.0004	.0004	.0032	.061	.024	.0023	.0001	1.50	.0002	.0009
%RSD	111.1	38.68	1.394	2.722	1.143	2.578	8.644	2.094	28.21	167.4
#1	.0007	.0016	.2297	2.266	2.158	.0925	-.0010	72.97	.0007	.0013
#2	.0004	.0007	.2305	2.289	2.134	.0912	-.0008	72.51	.0005	-.0004
#3	-.0001	.0012	.2246	2.174	2.109	.0880	-.0009	70.16	.0008	.0005

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0031**	**-.0016**	**4.552**	**-.0004**	**.1246**	**-.0006**	**.0004**	**-.0003**	**.0042**
Stddev	.0006	.0025	.060	.0001	.0024	.0002	.0008	.0002	.0001
%RSD	20.60	156.4	1.330	14.10	1.935	33.22	190.7	57.68	3.548
#1	-.0027	-.0010	4.537	-.0003	.1259	-.0008	-.0005	-.0002	.0041
#2	-.0027	.0006	4.619	-.0004	.1261	-.0007	.0011	-.0002	.0044
#3	-.0038	-.0043	4.500	-.0004	.1218	-.0004	.0007	-.0004	.0042

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7682.8**	**36234.**	**6348.0**
Stddev	93.3	532.	100.5
%RSD	1.2141	1.4675	1.5830
#1	7699.4	36535.	6265.6
#2	7582.4	36547.	6318.4
#3	7766.7	35620.	6459.9

Sample Name: L1849096-11,T Acquired: 12/6/2018 15:03:07 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: LC Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0023**	**.0007**	**-.0010**	**.0002**	**.0000**	**-.0013**	**.0209**	**-.0001**	**.0002**
Stddev	.0002	.0105	.0003	.0002	.0003	.0001	.0007	.0049	.0000	.0001
%RSD	89.99	461.5	42.19	16.31	145.2	225.8	52.95	23.32	33.82	35.39
#1	.0003	.0083	.0004	-.0008	.0004	.0000	-.0005	.0265	-.0001	.0003
#2	.0001	.0083	.0010	-.0011	.0003	.0001	-.0016	.0181	-.0001	.0001
#3	.0001	-.0098	.0007	-.0011	-.0001	-.0000	-.0017	.0181	-.0001	.0001

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**.0003**	**-.0007**	**.0012**	**.0018**	**.0001**	**-.0007**	**.0835**	**.0005**	**-.0002**
Stddev	.0002	.0002	.0037	.0120	.0015	.0002	.0001	.0011	.0001	.0011
%RSD	31.00	45.67	558.5	1008.	84.91	289.4	8.946	1.364	21.94	513.3
#1	.0006	.0005	-.0007	.0005	.0006	.0003	-.0008	.0837	.0006	-.0015
#2	.0003	.0004	.0031	.0135	.0013	-.0001	-.0007	.0846	.0004	.0003
#3	.0006	.0002	-.0044	-.0104	.0036	-.0000	-.0007	.0823	.0005	.0006

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0029**	**-.0021**	**-.0135**	**-.0010**	**.0001**	**-.0006**	**.0009**	**-.0005**	**.0005**
Stddev	.0004	.0018	.0023	.0003	.0002	.0002	.0006	.0000	.0001
%RSD	13.87	84.44	17.29	25.50	169.8	25.69	63.61	4.316	11.70
#1	-.0030	-.0029	-.0143	-.0012	-.0000	-.0008	.0004	-.0005	.0005
#2	-.0033	-.0033	-.0109	-.0007	.0001	-.0005	.0015	-.0005	.0005
#3	-.0025	-.0001	-.0154	-.0010	.0003	-.0005	.0009	-.0005	.0006

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7903.2**	**37367.**	**6369.2**
Stddev	161.0	262.	93.9
%RSD	2.0375	.70083	1.4749
#1	7805.1	37364.	6381.8
#2	7815.6	37106.	6456.2
#3	8089.1	37630.	6269.6

Sample Name: WG1186031-2,T,8 Acquired: 12/6/2018 15:08:11 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: LC Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0601**	**6.241**	**.1535**	**.1890**	**.4955**	**.2180**	**-.0019**	**5.056**	**.2309**	**.2062**
Stddev	.0003	.097	.0050	.0060	.0070	.0033	.0008	.088	.0069	.0064
%RSD	.4529	1.560	3.234	3.176	1.406	1.535	39.84	1.750	3.004	3.095
#1	.0600	6.132	.1569	.1932	.4876	.2144	-.0016	4.964	.2351	.2102
#2	.0599	6.272	.1558	.1917	.4979	.2185	-.0028	5.065	.2347	.2095
#3	.0604	6.319	.1478	.1822	.5009	.2211	-.0014	5.140	.2229	.1988

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1546**	**.2164**	**15.18**	**1.676**	**2.218**	**.3335**	**.2007**	**1.564**	**.1731**	**.2464**
Stddev	.0003	.0005	.23	.026	.015	.0058	.0062	.022	.0053	.0070
%RSD	.1620	.2510	1.492	1.546	.6678	1.743	3.092	1.402	3.083	2.836
#1	.1546	.2158	14.95	1.667	2.201	.3276	.2046	1.541	.1763	.2495
#2	.1544	.2166	15.20	1.706	2.229	.3337	.2039	1.566	.1759	.2513
#3	.1549	.2169	15.40	1.656	2.224	.3393	.1935	1.585	.1669	.2384

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1092**	**.0827**	**.9439**	**.1498**	**.0987**	**.3165**	**.2521**	**.1874**	**.2345**
Stddev	.0033	.0032	.0322	.0042	.0017	.0011	.0069	.0012	.0073
%RSD	2.986	3.873	3.415	2.828	1.686	.3533	2.736	.6664	3.105
#1	.1117	.0829	.9652	.1524	.0970	.3156	.2567	.1867	.2389
#2	.1105	.0858	.9597	.1520	.0987	.3162	.2554	.1866	.2385
#3	.1055	.0794	.9068	.1449	.1003	.3178	.2442	.1888	.2261

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7880.0**	**37299.**	**6438.0**
Stddev	209.4	107.	36.0
%RSD	2.6569	.28793	.55941
#1	7734.6	37175.	6479.5
#2	7785.4	37349.	6420.3
#3	8119.9	37372.	6414.3

Sample Name: L1848674-10,C Acquired: 12/6/2018 15:12:59 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: LC Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment: 10

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**.0800**	**.0019**	**.0085**	**.0459**	**.0001**	**-.0012**	**28.15**	**.0008**	**.0024**
Stddev	.0002	.0051	.0010	.0002	.0000	.0001	.0005	.18	.0000	.0002
%RSD	811.7	6.321	53.87	2.803	.0775	52.38	41.52	.6461	5.553	8.300
#1	.0002	.0742	.0011	.0086	.0460	.0001	-.0015	28.07	.0008	.0023
#2	-.0001	.0836	.0030	.0086	.0459	.0002	-.0006	28.36	.0009	.0027
#3	-.0002	.0821	.0015	.0082	.0459	.0001	-.0016	28.03	.0008	.0023

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0115**	**.0744**	**.9311**	**.7653**	**.2917**	**.0000**	**161.8**	**.0033**	**.0922**
Stddev	.0002	.0001	.0006	.0220	.0057	.0006	.0001	1.4	.0001	.0035
%RSD	85.38	1.124	.7412	2.364	.7490	.1928	318.2	.8564	4.280	3.794
#1	.0004	.0114	.0750	.9108	.7587	.2915	.0001	160.2	.0033	.0945
#2	.0004	.0116	.0739	.9280	.7691	.2923	-.0000	162.6	.0031	.0939
#3	.0000	.0116	.0743	.9545	.7680	.2912	.0000	162.6	.0034	.0881

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0021**	**.0022**	**.8507**	**.0005**	**.0780**	**.0009**	**.0006**	**.0001**	**.0847**
Stddev	.0009	.0014	.0243	.0009	.0005	.0005	.0009	.0001	.0027
%RSD	43.81	65.74	2.859	169.8	.6611	54.58	156.3	158.7	3.161
#1	-.0026	.0033	.8668	.0013	.0781	.0003	.0006	-.0000	.0860
#2	-.0026	.0006	.8626	.0008	.0785	.0011	.0015	.0002	.0864
#3	-.0010	.0027	.8227	-.0005	.0775	.0013	-.0003	.0000	.0816

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7490.7**	**35473.**	**6258.9**
Stddev	183.2	188.	42.3
%RSD	2.4462	.53134	.67612
#1	7379.2	35688.	6299.9
#2	7390.7	35392.	6215.4
#3	7702.1	35338.	6261.5

Sample Name: CCV Acquired: 12/6/2018 15:18:08 Type: QC
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4739**	**.5255**	**.5072**	**.4985**	**.5148**	**.4842**	**-.0032**	**.4881**	**.4933**	**.5039**
Stddev	.0049	.0059	.0060	.0055	.0013	.0006	.0008	.0062	.0041	.0047
%RSD	1.034	1.123	1.191	1.110	.2438	.1136	23.49	1.271	.8251	.9247
#1	.4791	.5282	.5070	.4995	.5134	.4836	-.0030	.4829	.4943	.5045
#2	.4694	.5296	.5133	.5036	.5151	.4844	-.0026	.4950	.4968	.5082
#3	.4732	.5188	.5012	.4926	.5159	.4847	-.0041	.4865	.4889	.4990
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5071**	**.5103**	**.4842**	**4.657**	**.5130**	**.4889**	**.5016**	**9.444**	**.4892**	**.5154**
Stddev	.0044	.0052	.0010	.026	.0042	.0012	.0039	.023	.0038	.0047
%RSD	.8579	1.028	.2074	.5609	.8109	.2443	.7867	.2480	.7781	.9088
#1	.5121	.5162	.4851	4.658	.5153	.4902	.5016	9.417	.4897	.5168
#2	.5042	.5060	.4844	4.683	.5155	.4887	.5056	9.459	.4927	.5191
#3	.5049	.5086	.4832	4.631	.5082	.4878	.4977	9.455	.4851	.5101
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5122**	**.5097**	**5.099**	**.5038**	**.4828**	**.4712**	**.4991**	**.5038**	**.4920**
Stddev	.0041	.0061	.045	.0031	.0011	.0059	.0031	.0053	.0036
%RSD	.8046	1.187	.8872	.6198	.2221	1.243	.6210	1.053	.7375
#1	.5140	.5113	5.109	.5034	.4815	.4778	.4984	.5096	.4928
#2	.5152	.5148	5.138	.5071	.4833	.4665	.5025	.4991	.4952
#3	.5075	.5030	5.049	.5009	.4834	.4694	.4964	.5026	.4881
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7824.4**	**37322.**	**6456.8**
Stddev	71.8	299.	15.1
%RSD	.91796	.80168	.23342
#1	7799.3	37008.	6474.2
#2	7768.6	37604.	6449.2
#3	7905.5	37354.	6447.1

Sample Name: CCB Acquired: 12/6/2018 15:22:59 Type: QC
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0010**	**.0037**	**-.0001**	**.0004**	**.0005**	**.0001**	**-.0002**	**.0106**	**.0001**	**-.0000**
Stddev	.0002	.0012	.0004	.0004	.0002	.0001	.0003	.0030	.0000	.0001
%RSD	25.88	33.37	251.3	100.4	41.53	36.09	198.4	27.94	36.49	3830.
#1	-.0008	.0026	-.0001	.0007	.0002	.0002	-.0003	.0078	.0001	.0001
#2	-.0012	.0050	-.0005	.0005	.0006	.0001	.0002	.0137	.0001	.0001
#3	-.0008	.0034	.0002	-.0000	.0006	.0001	-.0004	.0104	.0001	-.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**.0004**	**-.0020**	**-.0074**	**.0002**	**-.0000**	**.0009**	**.0577**	**-.0002**	**-.0003**
Stddev	.0002	.0003	.0015	.0118	.0050	.0003	.0002	.0073	.0003	.0010
%RSD	44.11	76.05	74.60	159.1	2057.	2408.	20.99	12.65	159.0	391.8
#1	.0007	.0001	-.0011	-.0207	-.0025	-.0002	.0011	.0500	-.0005	.0009
#2	.0003	.0004	-.0038	.0019	.0060	.0003	.0009	.0584	-.0001	-.0011
#3	.0007	.0006	-.0012	-.0034	-.0028	-.0001	.0007	.0646	.0000	-.0006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0020**	**.0008**	**-.0162**	**.0024**	**.0000**	**.0000**	**.0002**	**-.0002**	**-.0000**
Stddev	.0008	.0010	.0021	.0009	.0003	.0002	.0005	.0001	.0000
%RSD	37.40	123.4	13.21	38.15	3945.	2642.	211.8	76.68	141.5
#1	-.0018	.0015	-.0160	.0032	-.0002	-.0002	.0002	-.0002	.0000
#2	-.0028	.0013	-.0142	.0025	.0003	.0002	-.0002	-.0000	-.0000
#3	-.0014	-.0003	-.0185	.0014	-.0000	.0000	.0007	-.0003	-.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7978.5**	**37400.**	**6279.7**
Stddev	349.5	367.	47.0
%RSD	4.3807	.98060	.74772
#1	7794.8	37823.	6239.2
#2	7759.1	37184.	6331.2
#3	8381.5	37192.	6268.7

Sample Name: XL1847354-02,T,2 Acquired: 12/6/2018 15:28:33 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0052**	**1.016**	**.0095**	**.0368**	**.0006**	**-.0000**	**-.0071**	**.0978**	**-.0016**	**.0025**
Stddev	.0001	.012	.0013	.0016	.0003	.0000	.0006	.0058	.0000	.0003
%RSD	1.363	1.203	14.13	4.258	50.30	187.0	8.656	5.892	1.846	12.35
#1	.0053	1.002	.0097	.0379	.0004	-.0001	-.0075	.0958	-.0016	.0026
#2	.0051	1.025	.0107	.0374	.0005	.0000	-.0073	.0933	-.0016	.0027
#3	.0052	1.021	.0080	.0350	.0010	-.0000	-.0064	.1043	-.0016	.0021

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.260**	**.0662**	**.0168**	**5.875**	**8.670**	**.0012**	**.0761**	**2198.**	**.0162**	**.0013**
Stddev	.012	.0009	.0004	.074	.132	.0008	.0020	14.	.0007	.0020
%RSD	.9209	1.317	2.085	1.261	1.521	61.07	2.622	.6334	4.607	153.9
#1	1.273	.0669	.0164	5.791	8.536	.0004	.0770	2204.	.0167	.0024
#2	1.251	.0652	.0170	5.932	8.673	.0015	.0774	2182.	.0166	-.0010
#3	1.257	.0664	.0171	5.901	8.800	.0018	.0738	2208.	.0154	.0025

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0045**	**.0228**	**.7683**	**.1681**	**.0002**	**.0383**	**.0013**	**.0021**	**.0072**
Stddev	.0009	.0025	.0176	.0053	.0002	.0008	.0005	.0001	.0003
%RSD	18.84	11.02	2.289	3.179	99.40	2.149	42.09	6.768	4.108
#1	-.0038	.0249	.7794	.1711	.0000	.0392	.0018	.0023	.0073
#2	-.0043	.0233	.7776	.1713	.0001	.0376	.0007	.0020	.0074
#3	-.0055	.0200	.7481	.1619	.0003	.0383	.0014	.0020	.0068

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**6866.6**	**31339.**	**6015.3**
Stddev	161.4	209.	97.7
%RSD	2.3507	.66683	1.6248
#1	6784.1	31115.	6114.5
#2	6763.0	31530.	6012.1
#3	7052.5	31371.	5919.1

Sample Name: CCV Acquired: 12/6/2018 15:33:38 Type: QC
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4720	.5218	.5113	.4987	.5188	.4869	-.0031	.4947	.4953	.5050
Stddev	.0010	.0086	.0044	.0045	.0008	.0011	.0005	.0079	.0049	.0041
%RSD	.2192	1.650	.8555	.8956	.1574	.2336	16.96	1.598	.9991	.8033
#1	.4729	.5305	.5122	.5010	.5197	.4882	-.0025	.4894	.4968	.5063
#2	.4709	.5132	.5151	.5015	.5187	.4861	-.0034	.4908	.4993	.5083
#3	.4722	.5217	.5065	.4935	.5180	.4864	-.0034	.5038	.4897	.5005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5087	.5106	.4863	4.722	.5224	.4901	.5029	9.889	.4894	.5177
Stddev	.0012	.0017	.0056	.020	.0034	.0001	.0039	.092	.0042	.0046
%RSD	.2364	.3249	1.157	.4177	.6538	.0162	.7778	.9294	.8519	.8926
#1	.5096	.5113	.4909	4.700	.5257	.4901	.5042	9.995	.4907	.5195
#2	.5074	.5087	.4881	4.729	.5189	.4901	.5060	9.848	.4928	.5212
#3	.5093	.5118	.4800	4.738	.5227	.4900	.4985	9.826	.4848	.5125
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5117	.5099	5.079	.5059	.4856	.4693	.5004	.5029	.4951
Stddev	.0033	.0046	.038	.0038	.0008	.0021	.0046	.0011	.0046
%RSD	.6531	.9111	.7513	.7547	.1745	.4435	.9208	.2141	.9342
#1	.5135	.5113	5.090	.5060	.4866	.4707	.5031	.5037	.4964
#2	.5138	.5138	5.110	.5096	.4849	.4669	.5030	.5016	.4989
#3	.5079	.5048	5.037	.5020	.4853	.4703	.4951	.5033	.4899
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	7830.3	37199.	6332.0
Stddev	70.8	87.	55.9
%RSD	.90389	.23351	.88293
#1	7795.2	37129.	6270.2
#2	7784.0	37296.	6346.8
#3	7911.8	37172.	6379.0

Sample Name: CCB Acquired: 12/6/2018 15:38:29 Type: QC
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**-.0008**	**-.0006**	**.0001**	**.0006**	**.0001**	**-.0000**	**.0128**	**.0001**	**-.0000**
Stddev	.0001	.0106	.0011	.0001	.0002	.0000	.0003	.0080	.0000	.0000
%RSD	97.79	1392.	195.7	82.04	31.37	34.00	844.4	62.68	17.23	207.9
#1	.0003	.0105	.0003	.0000	.0005	.0001	.0003	.0188	.0001	-.0000
#2	.0001	-.0023	-.0018	.0002	.0004	.0001	-.0002	.0159	.0001	-.0001
#3	.0000	-.0105	-.0003	.0001	.0008	.0001	-.0002	.0037	.0001	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006**	**.0002**	**-.0035**	**.0316**	**.0034**	**.0006**	**.0009**	**.2377**	**-.0000**	**-.0000**
Stddev	.0002	.0002	.0016	.0082	.0029	.0001	.0002	.0485	.0003	.0000
%RSD	27.56	116.1	45.42	26.02	87.82	19.36	25.22	20.40	1728.	60.56
#1	.0005	.0001	-.0032	.0234	.0067	.0007	.0011	.1873	.0002	-.0000
#2	.0008	.0004	-.0052	.0398	.0012	.0006	.0010	.2416	-.0003	-.0000
#3	.0005	-.0000	-.0021	.0317	.0022	.0005	.0007	.2840	.0000	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0016**	**.0004**	**-.0157**	**.0035**	**.0001**	**.0001**	**.0001**	**-.0001**	**.0001**
Stddev	.0006	.0014	.0008	.0009	.0000	.0003	.0002	.0002	.0001
%RSD	38.33	311.1	4.817	26.17	35.31	352.7	176.1	322.1	83.27
#1	-.0010	-.0004	-.0154	.0040	.0001	.0004	-.0001	-.0001	.0001
#2	-.0016	-.0003	-.0151	.0040	.0001	.0002	.0003	.0002	.0000
#3	-.0022	.0020	-.0166	.0024	.0001	-.0003	.0002	-.0003	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**8002.6**	**37403.**	**6322.6**
Stddev	305.1	429.	60.7
%RSD	3.8129	1.1482	.96014
#1	7823.9	37879.	6365.1
#2	7829.0	37045.	6253.0
#3	8355.0	37284.	6349.6

Sample Name: WG1186025-1,T Acquired: 12/6/2018 15:43:33 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0124**	**.0005**	**-.0013**	**.0003**	**.0001**	**-.0005**	**.0110**	**-.0000**	**.0001**
Stddev	.0001	.0060	.0007	.0002	.0002	.0000	.0005	.0051	.0000	.0000
%RSD	36.42	48.43	150.6	17.94	53.16	72.46	92.63	46.10	19.41	5.729
#1	.0004	.0069	.0011	-.0012	.0002	.0001	.0000	.0052	-.0000	.0001
#2	.0002	.0116	-.0002	-.0011	.0002	.0000	-.0007	.0131	-.0000	.0001
#3	.0003	.0188	.0005	-.0015	.0006	.0000	-.0008	.0147	-.0000	.0001

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**.0003**	**.0210**	**.0625**	**.0040**	**.0006**	**-.0002**	**.5302**	**.0001**	**-.0001**
Stddev	.0002	.0001	.0024	.0023	.0030	.0005	.0000	.0192	.0002	.0014
%RSD	40.76	28.51	11.21	3.617	74.11	88.63	11.86	3.619	137.9	1620.
#1	.0004	.0003	.0187	.0648	.0074	.0006	-.0002	.5417	.0003	-.0013
#2	.0003	.0004	.0208	.0602	.0016	.0001	-.0002	.5408	.0001	.0014
#3	.0006	.0003	.0234	.0625	.0031	.0012	-.0002	.5080	-.0000	-.0003

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0013**	**-.0011**	**-.0152**	**.0006**	**.0001**	**.0001**	**-.0001**	**-.0003**	**.0007**
Stddev	.0008	.0004	.0009	.0007	.0002	.0001	.0005	.0001	.0002
%RSD	59.93	39.84	5.900	124.9	174.0	145.7	580.5	21.57	21.72
#1	-.0018	-.0015	-.0144	.0013	.0004	.0002	-.0001	-.0003	.0009
#2	-.0018	-.0011	-.0150	.0000	.0002	-.0001	-.0006	-.0004	.0006
#3	-.0004	-.0006	-.0162	.0003	-.0001	.0001	.0004	-.0003	.0007

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7910.1**	**37322.**	**6348.4**
Stddev	182.1	88.	21.9
%RSD	2.3025	.23509	.34526
#1	7834.2	37390.	6373.1
#2	7778.1	37353.	6340.8
#3	8117.9	37223.	6331.2

Sample Name: WG1186025-2,T,2 Acquired: 12/6/2018 15:48:35 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2405**	**24.91**	**.6126**	**.7457**	**1.942**	**.8283**	**-.0108**	**20.52**	**.8482**	**.7867**
Stddev	.0017	.13	.0130	.0156	.008	.0051	.0003	.11	.0176	.0168
%RSD	.6958	.5391	2.119	2.087	.4053	.6141	2.573	.5159	2.077	2.136
#1	.2388	24.93	.6176	.7535	1.949	.8304	-.0105	20.56	.8567	.7953
#2	.2404	25.04	.6224	.7559	1.943	.8320	-.0109	20.61	.8599	.7973
#3	.2422	24.77	.5979	.7278	1.933	.8225	-.0110	20.41	.8280	.7673

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5943**	**.8369**	**62.10**	**6.982**	**8.742**	**1.318**	**.7749**	**5.965**	**.6546**	**.9508**
Stddev	.0026	.0049	.39	.016	.044	.011	.0162	.035	.0137	.0190
%RSD	.4294	.5834	.6322	.2295	.5079	.7981	2.096	.5924	2.099	1.995
#1	.5934	.8341	62.17	6.993	8.762	1.320	.7817	5.986	.6616	.9597
#2	.5923	.8341	62.45	6.964	8.773	1.328	.7867	5.986	.6636	.9637
#3	.5971	.8426	61.67	6.989	8.691	1.307	.7564	5.925	.6388	.9290

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4480**	**.3282**	**3.005**	**.5914**	**.3867**	**1.161**	**.9769**	**.7271**	**.8994**
Stddev	.0095	.0069	.061	.0131	.0017	.009	.0193	.0047	.0193
%RSD	2.122	2.113	2.038	2.223	.4328	.7357	1.974	.6517	2.145
#1	.4505	.3314	3.040	.5985	.3877	1.155	.9857	.7238	.9078
#2	.4560	.3330	3.039	.5994	.3876	1.157	.9903	.7251	.9129
#3	.4375	.3203	2.934	.5762	.3847	1.171	.9548	.7326	.8773

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7958.2**	**37789.**	**6553.2**
Stddev	137.1	141.	40.9
%RSD	1.7222	.37367	.62427
#1	7880.7	37844.	6543.7
#2	7877.4	37894.	6517.8
#3	8116.4	37628.	6598.0

Sample Name: WG1186025-3,T,2 Acquired: 12/6/2018 15:53:19 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2405**	**24.70**	**.6178**	**.7576**	**1.961**	**.8252**	**-.0099**	**19.51**	**.8818**	**.7905**
Stddev	.0017	.06	.0078	.0112	.006	.0035	.0004	.06	.0116	.0109
%RSD	.6921	.2425	1.267	1.478	.3159	.4197	4.323	.3031	1.318	1.379
#1	.2391	24.71	.6212	.7628	1.966	.8262	-.0095	19.53	.8865	.7953
#2	.2401	24.64	.6232	.7652	1.954	.8213	-.0103	19.44	.8903	.7981
#3	.2424	24.76	.6088	.7447	1.963	.8280	-.0099	19.56	.8685	.7780

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5973**	**.8262**	**61.51**	**6.950**	**8.787**	**1.295**	**.7864**	**5.921**	**.6584**	**.9735**
Stddev	.0051	.0089	.17	.026	.059	.003	.0104	.016	.0089	.0137
%RSD	.8462	1.072	.2787	.3747	.6731	.2543	1.328	.2643	1.351	1.411
#1	.5930	.8189	61.53	6.929	8.729	1.299	.7906	5.933	.6619	.9797
#2	.5961	.8237	61.33	6.979	8.786	1.293	.7941	5.903	.6649	.9830
#3	.6029	.8361	61.67	6.943	8.847	1.294	.7745	5.926	.6483	.9577

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4531**	**.3367**	**2.998**	**.5942**	**.3918**	**1.199**	**1.000**	**.7311**	**.9126**
Stddev	.0078	.0061	.047	.0079	.0007	.009	.014	.0067	.0123
%RSD	1.729	1.809	1.550	1.325	.1756	.7376	1.383	.9201	1.347
#1	.4575	.3405	3.025	.5968	.3922	1.192	1.006	.7259	.9178
#2	.4576	.3399	3.025	.6005	.3910	1.196	1.011	.7286	.9215
#3	.4440	.3297	2.944	.5854	.3922	1.209	.9847	.7387	.8986

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7937.3**	**37681.**	**6482.1**
Stddev	108.5	172.	11.3
%RSD	1.3672	.45532	.17417
#1	7872.1	37613.	6469.2
#2	7877.3	37876.	6490.1
#3	8062.6	37554.	6487.0

Sample Name: L1849087-01,T Acquired: 12/6/2018 15:58:04 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**59.96**	**.1254**	**.0046**	**.2725**	**.0036**	**.0001**	**8.502**	**.0026**	**.0578**
Stddev	.0004	.36	.0030	.0002	.0013	.0000	.0006	.034	.0000	.0012
%RSD	1931.	.6075	2.386	5.155	.4652	.7769	863.5	.3941	1.222	2.009
#1	.0003	60.12	.1281	.0048	.2726	.0036	-.0005	8.518	.0026	.0585
#2	-.0004	60.22	.1260	.0044	.2737	.0036	.0000	8.525	.0026	.0584
#3	.0000	59.54	.1222	.0047	.2712	.0036	.0006	8.464	.0026	.0564

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2061**	**.1590**	**137.3**	**10.16**	**32.92**	**1.597**	**.0057**	**.8717**	**.1776**	**.1050**
Stddev	.0023	.0014	.7	.07	.29	.010	.0004	.0118	.0032	.0028
%RSD	1.139	.8852	.5345	.6910	.8781	.6350	7.555	1.357	1.824	2.645
#1	.2067	.1596	137.6	10.21	33.10	1.599	.0062	.8791	.1800	.1075
#2	.2080	.1601	137.9	10.18	33.09	1.606	.0055	.8779	.1788	.1053
#3	.2035	.1574	136.5	10.08	32.59	1.586	.0054	.8581	.1739	.1020

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0080**	**-.0027**	**4.348**	**.0096**	**.0558**	**2.657**	**.0020**	**.1565**	**.3537**
Stddev	.0014	.0013	.094	.0008	.0003	.026	.0006	.0011	.0068
%RSD	17.04	46.54	2.158	7.911	.4965	.9692	30.98	.6983	1.915
#1	.0095	-.0040	4.403	.0103	.0560	2.670	.0026	.1567	.3579
#2	.0070	-.0027	4.402	.0097	.0560	2.674	.0014	.1575	.3573
#3	.0074	-.0014	4.240	.0088	.0555	2.628	.0021	.1553	.3459

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**8044.3**	**38279.**	**6623.5**
Stddev	123.8	230.	25.0
%RSD	1.5395	.60121	.37710
#1	7953.1	38188.	6611.8
#2	7994.6	38108.	6606.5
#3	8185.3	38541.	6652.2

Sample Name: L1849087-02,T Acquired: 12/6/2018 16:02:55 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**65.85**	**.1479**	**.0023**	**.3395**	**.0052**	**-.0016**	**8.647**	**.0105**	**.0811**
Stddev	.0001	.33	.0037	.0002	.0006	.0001	.0001	.026	.0003	.0018
%RSD	162.2	.5012	2.518	9.854	.1899	2.015	6.109	.3050	2.871	2.208
#1	.0000	66.15	.1506	.0021	.3398	.0053	-.0015	8.658	.0108	.0821
#2	-.0001	65.50	.1495	.0025	.3388	.0051	-.0015	8.616	.0106	.0821
#3	-.0000	65.92	.1437	.0022	.3399	.0052	-.0017	8.665	.0102	.0790

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2343**	**.1826**	**149.7**	**9.314**	**34.42**	**4.869**	**.0077**	**1.313**	**.2462**	**.0523**
Stddev	.0017	.0011	.8	.015	.23	.031	.0003	.006	.0057	.0017
%RSD	.7341	.6125	.5174	.1644	.6645	.6350	3.725	.4309	2.311	3.275
#1	.2338	.1825	150.4	9.325	34.24	4.895	.0078	1.316	.2490	.0537
#2	.2363	.1837	148.8	9.297	34.68	4.834	.0078	1.307	.2498	.0528
#3	.2330	.1815	149.7	9.321	34.34	4.877	.0073	1.318	.2396	.0504

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0052**	**-.0039**	**4.732**	**.0045**	**.0411**	**2.489**	**-.0019**	**.1872**	**.5807**
Stddev	.0011	.0018	.103	.0006	.0002	.009	.0010	.0007	.0145
%RSD	21.34	45.32	2.177	12.76	.4048	.3785	50.67	.3747	2.489
#1	.0046	-.0020	4.788	.0051	.0413	2.486	-.0016	.1872	.5883
#2	.0065	-.0042	4.796	.0045	.0410	2.500	-.0011	.1879	.5897
#3	.0046	-.0054	4.613	.0040	.0411	2.481	-.0030	.1865	.5640

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**8278.7**	**39178.**	**6733.2**
Stddev	154.0	143.	21.6
%RSD	1.8605	.36613	.32064
#1	8188.5	39075.	6736.9
#2	8191.0	39117.	6710.0
#3	8456.5	39342.	6752.7

Sample Name: L1849087-03,T Acquired: 12/6/2018 16:07:46 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0003**	**125.9**	**.1631**	**.0042**	**.6713**	**.0074**	**-.0038**	**23.48**	**.0037**	**.1330**
Stddev	.0003	.4	.0018	.0004	.0017	.0001	.0001	.11	.0001	.0024
%RSD	83.39	.3162	1.117	9.867	.2547	1.144	3.395	.4702	2.927	1.811
#1	-.0001	125.5	.1649	.0039	.6695	.0073	-.0039	23.42	.0038	.1343
#2	-.0006	125.8	.1632	.0042	.6714	.0075	-.0036	23.42	.0037	.1345
#3	-.0003	126.3	.1612	.0047	.6729	.0074	-.0038	23.61	.0036	.1302

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.6105**	**.2750**	**212.0**	**30.29**	**81.83**	**4.098**	**.0047**	**1.671**	**.3856**	**.0963**
Stddev	.0052	.0023	.7	.07	.39	.018	.0001	.001	.0073	.0018
%RSD	.8593	.8254	.3323	.2265	.4752	.4442	2.254	.0796	1.886	1.867
#1	.6045	.2724	211.5	30.27	81.50	4.090	.0048	1.671	.3892	.0973
#2	.6128	.2761	211.8	30.23	81.74	4.086	.0046	1.670	.3905	.0973
#3	.6143	.2765	212.8	30.37	82.26	4.119	.0047	1.672	.3773	.0942

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0096**	**-.0031**	**3.887**	**.0084**	**.1140**	**5.805**	**-.0019**	**.3783**	**.5739**
Stddev	.0020	.0007	.068	.0002	.0003	.041	.0018	.0026	.0100
%RSD	20.90	22.46	1.744	2.263	.2471	.7031	92.34	.6931	1.745
#1	.0119	-.0034	3.923	.0084	.1138	5.758	-.0026	.3754	.5782
#2	.0081	-.0037	3.928	.0083	.1139	5.827	.0001	.3806	.5810
#3	.0089	-.0024	3.808	.0087	.1144	5.829	-.0032	.3788	.5624

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**8461.3**	**40505.**	**7057.5**
Stddev	132.3	336.	33.3
%RSD	1.5635	.82991	.47177
#1	8392.8	40893.	7089.6
#2	8377.3	40333.	7059.8
#3	8613.8	40290.	7023.1

Sample Name: L1849087-04,T Acquired: 12/6/2018 16:12:37 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0004**	**287.3**	**.3928**	**.0364**	**1.438**	**.0141**	**.0052**	**13.77**	**.0048**	**.1641**
Stddev	.0003	1.2	.0055	.0001	.007	.0001	.0002	.06	.0000	.0024
%RSD	71.26	.4199	1.388	.3673	.4779	.8662	3.191	.4270	.7333	1.455
#1	-.0004	288.6	.3962	.0365	1.445	.0142	.0052	13.84	.0048	.1658
#2	-.0001	287.1	.3955	.0364	1.435	.0140	.0054	13.74	.0049	.1652
#3	-.0007	286.2	.3865	.0362	1.432	.0140	.0050	13.74	.0048	.1614

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5346**	**.3564**	**330.3**	**62.05**	**91.38**	**4.987**	**.0124**	**1.683**	**.3895**	**.1390**
Stddev	.0023	.0009	1.1	.32	.18	.018	.0006	.009	.0065	.0027
%RSD	.4274	.2558	.3286	.5086	.1993	.3537	4.925	.5126	1.659	1.943
#1	.5338	.3563	331.5	62.40	91.55	5.008	.0131	1.693	.3933	.1396
#2	.5328	.3557	330.0	61.98	91.19	4.979	.0119	1.681	.3931	.1413
#3	.5372	.3574	329.4	61.78	91.41	4.975	.0123	1.676	.3820	.1360

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0184**	**-.0069**	**6.715**	**.0161**	**.1175**	**13.09**	**-.0039**	**.5850**	**.8514**
Stddev	.0020	.0016	.122	.0004	.0006	.03	.0008	.0009	.0119
%RSD	10.90	22.93	1.817	2.485	.5366	.2414	20.78	.1584	1.398
#1	.0200	-.0051	6.760	.0166	.1182	13.07	-.0049	.5860	.8591
#2	.0191	-.0080	6.808	.0160	.1172	13.06	-.0034	.5841	.8575
#3	.0161	-.0077	6.577	.0158	.1170	13.12	-.0035	.5849	.8377

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**9094.9**	**43302.**	**7573.5**
Stddev	130.1	58.	10.5
%RSD	1.4300	.13506	.13846
#1	9021.5	43304.	7564.2
#2	9018.0	43360.	7571.3
#3	9245.0	43243.	7584.9

Sample Name: L1849087-05,T Acquired: 12/6/2018 16:17:33 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0006**	**184.0**	**.3693**	**.0923**	**.7247**	**.0091**	**.0002**	**16.87**	**.0038**	**.2213**
Stddev	.0002	.5	.0068	.0024	.0026	.0001	.0007	.03	.0001	.0038
%RSD	33.70	.2519	1.829	2.637	.3590	.9865	350.7	.1992	2.486	1.702
#1	-.0007	184.6	.3741	.0937	.7275	.0092	.0005	16.90	.0039	.2236
#2	-.0003	183.7	.3723	.0938	.7223	.0090	-.0006	16.84	.0037	.2233
#3	-.0007	183.8	.3616	.0895	.7244	.0092	.0006	16.85	.0037	.2170

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4156**	**.3757**	**248.7**	**32.75**	**82.68**	**6.035**	**.0097**	**2.236**	**.4532**	**.1521**
Stddev	.0043	.0019	.5	.08	.56	.011	.0002	.007	.0078	.0031
%RSD	1.038	.5168	.2008	.2416	.6785	.1747	1.931	.2965	1.730	2.045
#1	.4107	.3735	249.1	32.83	82.04	6.044	.0098	2.242	.4577	.1537
#2	.4179	.3771	248.9	32.67	83.06	6.036	.0095	2.237	.4577	.1541
#3	.4184	.3766	248.1	32.76	82.95	6.024	.0099	2.229	.4441	.1485

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0113**	**-.0052**	**8.565**	**.0079**	**.0977**	**8.010**	**-.0050**	**.3945**	**.7188**
Stddev	.0003	.0010	.142	.0007	.0003	.045	.0003	.0029	.0130
%RSD	2.694	19.70	1.655	9.392	.3521	.5627	5.356	.7311	1.815
#1	.0114	-.0061	8.657	.0071	.0981	7.976	-.0047	.3914	.7265
#2	.0115	-.0055	8.635	.0085	.0974	8.061	-.0051	.3970	.7262
#3	.0109	-.0041	8.401	.0080	.0977	7.993	-.0053	.3952	.7038

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**8233.6**	**39312.**	**6776.4**
Stddev	115.5	207.	12.0
%RSD	1.4027	.52584	.17741
#1	8163.0	39549.	6790.1
#2	8171.0	39169.	6767.4
#3	8366.9	39217.	6771.8

Sample Name: L1848674-11,C Acquired: 12/6/2018 16:22:29 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**.0992**	**.0017**	**.0108**	**.0474**	**.0001**	**-.0008**	**30.39**	**.0010**	**.0031**
Stddev	.0003	.0066	.0008	.0004	.0010	.0000	.0009	.50	.0000	.0002
%RSD	539.6	6.641	47.20	3.733	2.181	22.43	116.4	1.658	2.479	5.146
#1	-.0001	.1014	.0008	.0110	.0468	.0002	.0003	30.07	.0010	.0033
#2	.0003	.0919	.0020	.0111	.0468	.0001	-.0013	30.12	.0010	.0030
#3	-.0003	.1045	.0024	.0103	.0486	.0002	-.0015	30.97	.0009	.0031

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008**	**.0144**	**.1452**	**.9903**	**.9271**	**.3001**	**-.0002**	**172.9**	**.0064**	**.0539**
Stddev	.0002	.0003	.0076	.0480	.0069	.0059	.0002	4.2	.0003	.0020
%RSD	27.89	2.298	5.245	4.852	.7416	1.969	111.8	2.401	4.315	3.643
#1	.0007	.0144	.1437	.9908	.9257	.2956	.0000	173.7	.0066	.0555
#2	.0011	.0147	.1385	.9420	.9211	.2979	-.0002	168.4	.0066	.0544
#3	.0007	.0140	.1535	1.038	.9346	.3068	-.0004	176.6	.0061	.0517

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0013**	**.0004**	**1.571**	**-.0002**	**.0808**	**.0067**	**-.0001**	**.0002**	**.1396**
Stddev	.0005	.0011	.060	.0004	.0016	.0003	.0009	.0003	.0045
%RSD	37.68	246.5	3.819	282.8	2.015	4.593	1325.	216.0	3.217
#1	-.0010	.0016	1.603	.0001	.0798	.0071	-.0002	.0003	.1422
#2	-.0011	.0002	1.608	-.0007	.0799	.0067	-.0009	-.0002	.1423
#3	-.0019	-.0005	1.502	.0001	.0827	.0064	.0009	.0004	.1344

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7562.9**	**35800.**	**6076.2**
Stddev	206.0	173.	88.5
%RSD	2.7236	.48205	1.4560
#1	7443.8	35829.	6115.5
#2	7444.1	35616.	6138.2
#3	7800.7	35957.	5974.9

Sample Name: MIX Scan Acquired: 12/6/2018 16:27:36 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment: 10

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**.0491**	**.0002**	**1.090**	**.0004**	**-.0001**	**-.0015**	**9.965**	**-.0001**	**.0023**
Stddev	.0001	.0082	.0009	.025	.0002	.0000	.0005	.312	.0000	.0000
%RSD	457.9	16.79	443.4	2.260	44.23	12.69	33.27	3.127	5.564	.3810
#1	.0000	.0553	.0009	1.104	.0006	-.0001	-.0010	10.32	-.0001	.0023
#2	-.0001	.0397	-.0008	1.105	.0002	-.0001	-.0020	9.777	-.0001	.0023
#3	.0002	.0521	.0005	1.062	.0004	-.0001	-.0017	9.792	-.0001	.0023

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0007**	**.0200**	**10.19**	**11.26**	**-.0000**	**.9301**	**10.71**	**.0008**	**-.0024**
Stddev	.0002	.0005	.0033	.32	.39	.0005	.0129	.37	.0001	.0002
%RSD	59.85	70.05	16.38	3.150	3.483	1146.	1.386	3.444	18.60	8.078
#1	.0001	.0008	.0238	10.56	11.69	-.0001	.9294	11.13	.0009	-.0022
#2	.0003	.0002	.0181	9.948	10.93	-.0005	.9433	10.49	.0008	-.0026
#3	.0004	.0011	.0182	10.08	11.16	.0004	.9176	10.50	.0006	-.0025

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0147**	**-.0006**	**.0363**	**.7101**	**.9977**	**.9480**	**.0007**	**-.0018**	**.0003**
Stddev	.0003	.0006	.0018	.0113	.0314	.0586	.0005	.0004	.0000
%RSD	2.347	112.7	4.973	1.597	3.151	6.184	64.41	19.25	14.34
#1	-.0150	-.0004	.0379	.7055	1.034	.9851	.0002	-.0020	.0002
#2	-.0146	-.0013	.0366	.7230	.9790	.8805	.0010	-.0014	.0003
#3	-.0143	-.0000	.0343	.7018	.9801	.9786	.0009	-.0021	.0003

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7825.6**	**36935.**	**6217.6**
Stddev	150.9	1890.	162.9
%RSD	1.9277	5.1158	2.6206
#1	7737.1	35735.	6032.2
#2	7740.0	39113.	6337.9
#3	7999.8	35958.	6282.8

Sample Name: CCV Acquired: 12/6/2018 16:32:35 Type: QC
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4776**	**.5267**	**.5069**	**.5023**	**.5237**	**.4817**	**-.0028**	**.5035**	**.4927**	**.5022**
Stddev	.0008	.0084	.0079	.0085	.0007	.0011	.0006	.0040	.0084	.0086
%RSD	.1689	1.602	1.551	1.691	.1256	.2270	21.77	.7932	1.707	1.707
#1	.4774	.5365	.5069	.5050	.5230	.4829	-.0021	.5062	.4962	.5054
#2	.4785	.5219	.5148	.5091	.5241	.4813	-.0031	.4989	.4988	.5087
#3	.4769	.5219	.4990	.4928	.5241	.4808	-.0033	.5054	.4831	.4925
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5051**	**.5082**	**.4912**	**4.817**	**.5427**	**.4883**	**.5154**	**10.21**	**.4874**	**.5154**
Stddev	.0027	.0013	.0025	.043	.0018	.0046	.0109	.02	.0087	.0077
%RSD	.5328	.2498	.5139	.8932	.3376	.9325	2.116	.2054	1.781	1.497
#1	.5025	.5067	.4916	4.864	.5413	.4929	.5219	10.23	.4908	.5171
#2	.5049	.5089	.4935	4.809	.5420	.4880	.5216	10.19	.4938	.5222
#3	.5079	.5089	.4885	4.779	.5448	.4838	.5029	10.21	.4775	.5070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5070**	**.5058**	**5.123**	**.5500**	**.4875**	**.4824**	**.4980**	**.5026**	**.4932**
Stddev	.0083	.0081	.089	.0171	.0017	.0006	.0061	.0018	.0083
%RSD	1.638	1.604	1.740	3.110	.3424	.1219	1.215	.3524	1.686
#1	.5094	.5093	5.153	.5634	.4892	.4818	.5012	.5005	.4965
#2	.5139	.5116	5.192	.5558	.4876	.4826	.5018	.5037	.4994
#3	.4978	.4966	5.022	.5307	.4858	.4829	.4910	.5035	.4838
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7831.4**	**37144.**	**6243.8**
Stddev	114.1	49.	17.5
%RSD	1.4570	.13109	.28071
#1	7779.0	37170.	6232.1
#2	7752.8	37088.	6264.0
#3	7962.2	37175.	6235.4

Sample Name: CCB Acquired: 12/6/2018 16:37:25 Type: QC
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0014**	**.0001**	**.0009**	**.0007**	**.0001**	**-.0000**	**.0114**	**.0001**	**.0001**
Stddev	.0002	.0037	.0003	.0003	.0002	.0001	.0011	.0073	.0001	.0001
%RSD	331.6	261.2	241.0	29.72	24.33	48.53	7744.	63.78	40.97	225.9
#1	-.0002	-.0024	.0001	.0012	.0005	.0001	-.0012	.0099	.0001	.0002
#2	.0002	.0016	.0005	.0007	.0009	.0001	.0001	.0050	.0002	.0001
#3	.0002	.0050	-.0002	.0009	.0007	.0002	.0011	.0193	.0001	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0004**	**.0004**	**.0330**	**.0033**	**.0003**	**.0048**	**.0942**	**.0002**	**-.0002**
Stddev	.0005	.0003	.0023	.0072	.0008	.0006	.0009	.0067	.0001	.0004
%RSD	175.2	66.17	577.2	21.94	24.94	226.9	19.23	7.131	28.12	184.5
#1	.0004	.0007	-.0020	.0373	.0042	-.0002	.0056	.0959	.0002	.0002
#2	-.0003	.0005	.0005	.0370	.0028	.0000	.0050	.0999	.0001	-.0003
#3	.0008	.0001	.0027	.0246	.0028	.0010	.0038	.0868	.0003	-.0006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0023**	**-.0017**	**-.0062**	**.0262**	**.0001**	**.0018**	**-.0001**	**-.0001**	**.0002**
Stddev	.0004	.0010	.0025	.0031	.0001	.0001	.0004	.0002	.0001
%RSD	16.58	61.92	40.83	11.74	68.14	7.355	313.8	112.2	66.59
#1	-.0018	-.0020	-.0045	.0294	.0002	.0018	.0003	-.0000	.0001
#2	-.0024	-.0024	-.0050	.0261	.0000	.0020	-.0002	-.0001	.0003
#3	-.0026	-.0005	-.0091	.0232	.0001	.0017	-.0005	-.0003	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**8015.6**	**37590.**	**6184.7**
Stddev	309.3	447.	66.2
%RSD	3.8585	1.1900	1.0696
#1	7811.1	37357.	6109.0
#2	7864.3	37307.	6214.0
#3	8371.4	38106.	6231.2

Sample Name: L1848674-12,C Acquired: 12/6/2018 16:42:29 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**.0368**	**.0011**	**.0311**	**.0362**	**.0000**	**-.0012**	**31.10**	**.0004**	**.0027**
Stddev	.0001	.0061	.0006	.0014	.0005	.0000	.0003	.38	.0000	.0002
%RSD	1194.	16.50	51.23	4.394	1.297	140.1	27.49	1.221	6.839	5.636
#1	-.0001	.0324	.0006	.0318	.0361	.0001	-.0008	30.67	.0005	.0027
#2	.0002	.0343	.0010	.0319	.0367	-.0000	-.0015	31.41	.0004	.0029
#3	-.0001	.0438	.0017	.0295	.0358	.0000	-.0013	31.21	.0004	.0026

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**.0042**	**.0748**	**1.266**	**1.653**	**.2372**	**.0021**	**169.8**	**.0036**	**.0596**
Stddev	.0003	.0001	.0027	.042	.021	.0034	.0003	2.5	.0003	.0018
%RSD	79.36	3.161	3.550	3.348	1.264	1.420	15.51	1.460	9.292	3.035
#1	.0004	.0043	.0718	1.243	1.630	.2333	.0023	167.5	.0040	.0605
#2	.0001	.0040	.0757	1.240	1.670	.2396	.0021	172.5	.0035	.0607
#3	.0007	.0043	.0769	1.315	1.660	.2386	.0017	169.4	.0034	.0575

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0009**	**.0004**	**.4002**	**.0270**	**.0991**	**.0003**	**-.0001**	**.0000**	**.1203**
Stddev	.0008	.0008	.0150	.0071	.0007	.0004	.0009	.0003	.0037
%RSD	82.79	187.7	3.744	26.43	.7124	106.0	753.5	675.9	3.070
#1	-.0000	.0012	.4080	.0343	.0984	.0007	-.0011	.0003	.1224
#2	-.0014	-.0003	.4097	.0266	.0998	.0000	.0005	.0002	.1225
#3	-.0013	.0003	.3830	.0200	.0991	.0003	.0002	-.0003	.1160

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7592.0**	**35647.**	**6075.2**
Stddev	213.9	367.	82.3
%RSD	2.8175	1.0300	1.3548
#1	7447.2	35942.	6165.3
#2	7491.2	35764.	6004.0
#3	7837.7	35236.	6056.3

Sample Name: L1849087-06,T Acquired: 12/6/2018 16:47:39 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006**	**297.3**	**.1792**	**.0688**	**.9554**	**.0110**	**-.0001**	**8.829**	**.0040**	**.1388**
Stddev	.0001	1.7	.0018	.0017	.0054	.0001	.0004	.073	.0000	.0021
%RSD	26.58	.5682	.9879	2.435	.5662	1.238	349.1	.8255	.6131	1.532
#1	.0006	298.2	.1808	.0697	.9586	.0109	-.0001	8.873	.0040	.1399
#2	.0007	298.3	.1797	.0699	.9585	.0112	-.0006	8.869	.0040	.1402
#3	.0004	295.3	.1773	.0669	.9491	.0110	.0003	8.744	.0040	.1364

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4341**	**.1706**	**262.3**	**26.72**	**64.35**	**2.547**	**.0072**	**1.239**	**.2638**	**.1126**
Stddev	.0018	.0004	1.3	.15	.22	.012	.0005	.008	.0040	.0032
%RSD	.4167	.2086	.5030	.5537	.3351	.4644	7.266	.6736	1.524	2.819
#1	.4329	.1710	263.3	26.86	64.58	2.558	.0078	1.243	.2654	.1130
#2	.4331	.1704	262.9	26.74	64.32	2.548	.0070	1.244	.2668	.1155
#3	.4362	.1705	260.8	26.56	64.15	2.535	.0069	1.229	.2592	.1092

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0165**	**-.0000**	**17.85**	**.0215**	**.0909**	**14.98**	**-.0048**	**.4882**	**.6763**
Stddev	.0034	.0017	.27	.0008	.0005	.11	.0007	.0015	.0102
%RSD	20.56	4386.	1.509	3.843	.6021	.7566	14.51	.2992	1.509
#1	.0136	-.0010	18.00	.0213	.0914	14.86	-.0056	.4879	.6815
#2	.0203	-.0010	18.01	.0224	.0911	15.09	-.0043	.4869	.6829
#3	.0158	.0019	17.54	.0208	.0903	15.00	-.0045	.4898	.6646

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**8066.1**	**38488.**	**6701.3**
Stddev	108.5	87.	24.7
%RSD	1.3455	.22510	.36820
#1	8017.1	38537.	6677.9
#2	7990.7	38539.	6698.9
#3	8190.5	38388.	6727.1

Sample Name: L1849087-07,T Acquired: 12/6/2018 16:52:36 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0014**	**178.2**	**.1675**	**.0522**	**.7179**	**.0090**	**.0099**	**33.32**	**.0060**	**.0985**
Stddev	.0003	1.1	.0010	.0010	.0031	.0001	.0003	.15	.0001	.0016
%RSD	23.71	.6278	.6236	1.883	.4332	1.119	3.021	.4388	2.164	1.609
#1	.0017	177.3	.1675	.0528	.7156	.0089	.0100	33.20	.0060	.0996
#2	.0012	177.8	.1686	.0526	.7166	.0089	.0102	33.28	.0062	.0992
#3	.0012	179.5	.1665	.0510	.7214	.0091	.0096	33.48	.0059	.0967

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3375**	**.3548**	**219.0**	**15.52**	**44.48**	**5.070**	**.0095**	**1.157**	**.2407**	**.6493**
Stddev	.0009	.0006	.8	.06	.14	.028	.0004	.009	.0034	.0111
%RSD	.2762	.1736	.3802	.3854	.3224	.5441	4.327	.7828	1.424	1.712
#1	.3374	.3549	218.2	15.47	44.37	5.048	.0096	1.146	.2432	.6570
#2	.3384	.3554	218.7	15.51	44.64	5.061	.0097	1.163	.2422	.6544
#3	.3365	.3541	219.9	15.58	44.43	5.101	.0090	1.161	.2368	.6366

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0161**	**-.0006**	**11.92**	**.1702**	**.1111**	**6.882**	**-.0050**	**.3284**	**.9466**
Stddev	.0015	.0007	.22	.0021	.0008	.013	.0021	.0011	.0131
%RSD	9.634	125.2	1.879	1.229	.6809	.1910	42.09	.3269	1.389
#1	.0176	.0001	12.06	.1712	.1106	6.882	-.0030	.3296	.9551
#2	.0162	-.0005	12.04	.1716	.1107	6.895	-.0072	.3279	.9533
#3	.0145	-.0014	11.66	.1678	.1120	6.868	-.0047	.3277	.9315

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**8082.5**	**38653.**	**6698.3**
Stddev	103.8	54.	16.2
%RSD	1.2845	.13932	.24118
#1	8020.3	38642.	6716.6
#2	8024.9	38606.	6686.2
#3	8202.4	38712.	6692.0

Sample Name: L1849087-08,T Acquired: 12/6/2018 16:57:25 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0004**	**89.88**	**.2052**	**.0031**	**.3303**	**.0059**	**-.0026**	**12.62**	**.0030**	**.1091**
Stddev	.0003	.44	.0046	.0004	.0013	.0001	.0005	.09	.0001	.0025
%RSD	77.17	.4922	2.223	12.04	.3831	1.171	20.84	.7117	3.713	2.294
#1	-.0002	90.37	.2085	.0030	.3313	.0060	-.0020	12.72	.0032	.1109
#2	-.0003	89.76	.2072	.0035	.3306	.0059	-.0027	12.60	.0030	.1102
#3	-.0008	89.50	.2000	.0027	.3289	.0058	-.0031	12.54	.0029	.1063

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3030**	**.2728**	**189.4**	**15.63**	**46.71**	**2.189**	**.0088**	**1.011**	**.2833**	**.0849**
Stddev	.0017	.0022	1.0	.08	.15	.013	.0002	.008	.0063	.0035
%RSD	.5627	.7922	.5189	.4956	.3199	.6077	2.678	.8241	2.229	4.139
#1	.3013	.2708	190.4	15.72	46.87	2.204	.0089	1.012	.2875	.0873
#2	.3029	.2726	189.1	15.58	46.57	2.182	.0090	1.019	.2864	.0865
#3	.3047	.2751	188.5	15.59	46.70	2.180	.0085	1.003	.2761	.0809

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0052**	**-.0043**	**4.597**	**.0079**	**.0418**	**3.701**	**-.0018**	**.2285**	**.3932**
Stddev	.0006	.0003	.102	.0006	.0003	.020	.0007	.0016	.0086
%RSD	10.65	7.013	2.224	7.902	.8169	.5470	41.53	.6876	2.181
#1	.0058	-.0046	4.664	.0086	.0421	3.682	-.0021	.2273	.3988
#2	.0047	-.0040	4.647	.0073	.0419	3.699	-.0009	.2279	.3976
#3	.0051	-.0043	4.479	.0077	.0414	3.722	-.0023	.2303	.3834

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**8310.0**	**39613.**	**6728.3**
Stddev	160.1	178.	22.7
%RSD	1.9264	.44839	.33712
#1	8203.6	39767.	6702.2
#2	8232.2	39652.	6739.4
#3	8494.1	39419.	6743.3

Sample Name: L1849087-09,T Acquired: 12/6/2018 17:02:15 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**80.95**	**.2561**	**.0010**	**.4051**	**.0044**	**.0026**	**9.975**	**.0026**	**.0737**
Stddev	.0002	1.01	.0042	.0006	.0053	.0000	.0008	.102	.0001	.0014
%RSD	125.7	1.252	1.627	59.67	1.311	.6189	32.20	1.021	2.198	1.932
#1	-.0003	81.82	.2575	.0017	.4106	.0044	.0031	10.07	.0027	.0745
#2	.0000	81.19	.2593	.0004	.4048	.0044	.0016	9.989	.0027	.0745
#3	-.0002	79.83	.2513	.0010	.3999	.0043	.0030	9.867	.0026	.0721

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2686**	**.1604**	**160.7**	**17.59**	**46.40**	**1.873**	**.0050**	**1.749**	**.1961**	**.0529**
Stddev	.0028	.0013	1.7	.19	.10	.024	.0002	.020	.0040	.0010
%RSD	1.027	.8037	1.056	1.053	.2050	1.259	3.092	1.116	2.059	1.845
#1	.2655	.1592	162.3	17.75	46.37	1.894	.0052	1.768	.1980	.0538
#2	.2696	.1601	160.7	17.64	46.51	1.878	.0050	1.750	.1989	.0531
#3	.2708	.1617	158.9	17.39	46.32	1.847	.0049	1.729	.1915	.0518

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0049**	**-.0031**	**5.023**	**.0066**	**.0578**	**3.872**	**-.0014**	**.2165**	**.3293**
Stddev	.0005	.0014	.107	.0006	.0006	.035	.0012	.0025	.0066
%RSD	10.92	46.83	2.120	8.400	1.038	.9069	83.08	1.147	2.005
#1	.0046	-.0037	5.075	.0067	.0583	3.832	-.0025	.2138	.3326
#2	.0045	-.0041	5.095	.0060	.0579	3.885	-.0017	.2171	.3335
#3	.0055	-.0014	4.901	.0071	.0571	3.898	-.0001	.2187	.3217

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**8195.0**	**38869.**	**6479.3**
Stddev	133.6	210.	25.6
%RSD	1.6308	.54076	.39517
#1	8126.2	39106.	6453.3
#2	8109.8	38795.	6480.0
#3	8349.0	38705.	6504.5

Sample Name: L1849087-10,T Acquired: 12/6/2018 17:07:06 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**83.71**	**.1989**	**.0032**	**.3544**	**.0054**	**-.0004**	**25.04**	**.0029**	**.1438**
Stddev	.0006	.39	.0038	.0004	.0014	.0000	.0006	.19	.0000	.0032
%RSD	1909.	.4692	1.889	12.32	.4028	.6207	131.6	.7607	1.220	2.212
#1	-.0001	83.29	.2008	.0036	.3527	.0054	-.0011	24.82	.0029	.1455
#2	.0006	84.06	.2013	.0028	.3552	.0054	.0001	25.16	.0029	.1458
#3	-.0006	83.79	.1945	.0031	.3552	.0054	-.0004	25.13	.0029	.1402

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2421**	**.1927**	**159.5**	**16.28**	**39.16**	**3.048**	**.0070**	**1.845**	**.3101**	**.0821**
Stddev	.0017	.0017	.7	.06	.33	.019	.0004	.003	.0068	.0024
%RSD	.7226	.8727	.4272	.3705	.8311	.6131	5.926	.1789	2.192	2.916
#1	.2430	.1944	158.7	16.23	38.80	3.026	.0073	1.842	.3141	.0839
#2	.2401	.1910	159.8	16.35	39.24	3.061	.0072	1.848	.3139	.0831
#3	.2432	.1928	159.9	16.27	39.44	3.055	.0066	1.847	.3022	.0794

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0043**	**-.0033**	**4.419**	**.0071**	**.1353**	**3.411**	**-.0014**	**.2014**	**.3940**
Stddev	.0012	.0001	.099	.0004	.0005	.028	.0008	.0016	.0085
%RSD	26.75	3.042	2.234	5.333	.3572	.8053	61.22	.7911	2.152
#1	.0044	-.0033	4.464	.0075	.1348	3.439	-.0018	.2032	.3987
#2	.0054	-.0035	4.488	.0069	.1356	3.384	-.0004	.2001	.3991
#3	.0031	-.0033	4.306	.0069	.1356	3.412	-.0019	.2009	.3842

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**8169.5**	**38662.**	**6564.1**
Stddev	157.5	311.	38.1
%RSD	1.9274	.80359	.58016
#1	8084.5	38362.	6607.4
#2	8072.8	38983.	6549.6
#3	8351.2	38642.	6535.5

Sample Name: L1849087-11,T Acquired: 12/6/2018 17:11:56 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**140.3**	**.2306**	**.0088**	**.5313**	**.0074**	**.0052**	**10.37**	**.0033**	**.1165**
Stddev	.0002	.1	.0041	.0004	.0014	.0001	.0004	.08	.0000	.0026
%RSD	82.50	.0795	1.779	4.161	.2643	.9907	7.813	.7457	1.051	2.211
#1	.0002	140.3	.2318	.0086	.5319	.0073	.0047	10.28	.0033	.1179
#2	.0004	140.3	.2339	.0093	.5323	.0074	.0055	10.43	.0033	.1180
#3	.0000	140.1	.2260	.0087	.5297	.0074	.0053	10.40	.0032	.1135

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3213**	**.2061**	**219.5**	**24.61**	**51.92**	**2.690**	**.0057**	**1.885**	**.2622**	**.0948**
Stddev	.0013	.0009	.4	.05	.41	.006	.0004	.005	.0052	.0036
%RSD	.3900	.4205	.1621	.2005	.7971	.2432	6.453	.2880	1.992	3.824
#1	.3200	.2055	219.1	24.65	51.49	2.682	.0060	1.890	.2652	.0957
#2	.3225	.2056	219.8	24.55	52.32	2.693	.0059	1.880	.2653	.0978
#3	.3215	.2071	219.5	24.62	51.95	2.694	.0053	1.884	.2562	.0907

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0114**	**-.0017**	**5.429**	**.0099**	**.1242**	**6.876**	**-.0020**	**.2997**	**.4292**
Stddev	.0018	.0016	.107	.0007	.0005	.022	.0014	.0004	.0084
%RSD	16.14	91.26	1.967	7.332	.3683	.3226	69.52	.1430	1.949
#1	.0130	-.0035	5.470	.0107	.1247	6.850	-.0031	.2992	.4345
#2	.0119	-.0014	5.510	.0097	.1240	6.887	-.0004	.2997	.4335
#3	.0094	-.0004	5.308	.0093	.1238	6.890	-.0025	.3001	.4195

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**8205.7**	**39174.**	**6654.6**
Stddev	136.9	57.	41.7
%RSD	1.6680	.14554	.62600
#1	8138.8	39222.	6702.6
#2	8115.2	39188.	6627.0
#3	8363.2	39111.	6634.3

Sample Name: L1849087-12,T Acquired: 12/6/2018 17:16:55 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**92.85**	**.1809**	**.0035**	**.4647**	**.0052**	**.0036**	**22.10**	**.0033**	**.1134**
Stddev	.0005	.30	.0044	.0006	.0008	.0000	.0006	.10	.0001	.0022
%RSD	2760.	.3210	2.418	18.06	.1681	.4971	15.66	.4687	2.231	1.969
#1	.0004	92.83	.1836	.0042	.4654	.0052	.0042	22.05	.0033	.1147
#2	.0002	93.16	.1832	.0030	.4649	.0052	.0033	22.22	.0033	.1146
#3	-.0006	92.56	.1758	.0033	.4639	.0052	.0032	22.04	.0032	.1108

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3525**	**.2246**	**195.8**	**25.77**	**60.82**	**2.563**	**.0063**	**1.950**	**.3634**	**.0909**
Stddev	.0035	.0019	.7	.12	.30	.010	.0004	.014	.0080	.0035
%RSD	.9936	.8284	.3444	.4768	.4868	.3794	6.638	.7233	2.204	3.841
#1	.3500	.2232	195.6	25.74	60.49	2.558	.0066	1.946	.3671	.0938
#2	.3511	.2239	196.5	25.90	61.06	2.574	.0066	1.965	.3688	.0919
#3	.3565	.2267	195.2	25.66	60.90	2.556	.0058	1.937	.3542	.0870

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0070**	**-.0038**	**3.379**	**.0096**	**.0950**	**4.291**	**-.0015**	**.2621**	**.4552**
Stddev	.0009	.0005	.072	.0002	.0005	.035	.0005	.0019	.0090
%RSD	12.60	14.16	2.123	1.752	.5264	.8225	32.21	.7328	1.981
#1	.0074	-.0033	3.419	.0094	.0948	4.268	-.0013	.2605	.4593
#2	.0060	-.0044	3.422	.0097	.0955	4.274	-.0020	.2615	.4614
#3	.0076	-.0037	3.297	.0096	.0946	4.332	-.0011	.2642	.4448

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**8224.3**	**39076.**	**6602.6**
Stddev	138.6	203.	34.0
%RSD	1.6849	.51836	.51451
#1	8147.5	39237.	6623.2
#2	8141.1	39142.	6563.4
#3	8384.2	38849.	6621.2

Sample Name: L1848674-13,C Acquired: 12/6/2018 17:21:46 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0003**	**.0670**	**.0009**	**.0100**	**.0450**	**.0001**	**-.0016**	**26.45**	**.0006**	**.0025**
Stddev	.0001	.0119	.0006	.0001	.0001	.0001	.0007	.29	.0000	.0001
%RSD	46.93	17.78	70.80	1.454	.1773	51.65	43.82	1.113	4.971	2.934
#1	-.0003	.0793	.0016	.0101	.0450	.0001	-.0021	26.77	.0006	.0025
#2	-.0002	.0661	.0003	.0101	.0450	.0002	-.0008	26.19	.0006	.0025
#3	-.0004	.0555	.0009	.0099	.0449	.0001	-.0020	26.39	.0005	.0024

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0010**	**.0132**	**.0902**	**.9235**	**.7121**	**.2845**	**-.0000**	**171.5**	**.0030**	**.0500**
Stddev	.0003	.0003	.0038	.0283	.0046	.0026	.0002	2.4	.0001	.0016
%RSD	27.94	1.895	4.240	3.069	.6501	.9049	367.8	1.416	3.787	3.123
#1	.0007	.0130	.0859	.8985	.7164	.2874	-.0000	174.1	.0030	.0504
#2	.0011	.0132	.0919	.9177	.7072	.2825	.0001	171.1	.0031	.0513
#3	.0012	.0135	.0930	.9543	.7129	.2837	-.0002	169.3	.0029	.0483

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0025**	**.0001**	**.6082**	**.0013**	**.0712**	**.0044**	**-.0003**	**.0001**	**.0823**
Stddev	.0013	.0003	.0213	.0004	.0006	.0003	.0007	.0002	.0027
%RSD	50.07	254.8	3.506	34.40	.7927	7.684	246.1	177.5	3.316
#1	-.0025	.0005	.6198	.0018	.0717	.0048	.0004	-.0000	.0838
#2	-.0013	-.0002	.6211	.0011	.0706	.0042	-.0010	.0003	.0840
#3	-.0038	.0001	.5836	.0010	.0712	.0042	-.0002	.0000	.0791

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7585.3**	**35285.**	**5979.6**
Stddev	217.0	267.	36.6
%RSD	2.8601	.75777	.61221
#1	7458.1	35568.	5938.1
#2	7462.0	35249.	6007.5
#3	7835.8	35037.	5993.1

Sample Name: L1848674-14,C Acquired: 12/6/2018 17:26:53 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment: 10

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**.0464**	**.0020**	**.0324**	**.0393**	**.0001**	**-.0007**	**31.41**	**.0004**	**.0025**
Stddev	.0002	.0065	.0004	.0014	.0004	.0000	.0010	.26	.0000	.0001
%RSD	1296.	13.95	17.36	4.216	1.090	49.07	145.7	.8169	4.879	3.123
#1	.0000	.0393	.0017	.0331	.0398	.0001	-.0004	31.66	.0004	.0025
#2	-.0003	.0481	.0024	.0332	.0390	.0000	-.0017	31.15	.0004	.0025
#3	.0002	.0519	.0020	.0308	.0392	.0001	.0001	31.40	.0004	.0024

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**.0039**	**.0620**	**1.079**	**1.611**	**.2274**	**-.0000**	**168.8**	**.0031**	**.0589**
Stddev	.0001	.0002	.0012	.009	.013	.0019	.0002	1.7	.0002	.0014
%RSD	40.06	3.869	1.986	.7999	.7744	.8226	4210.	.9872	5.415	2.414
#1	.0004	.0041	.0628	1.073	1.625	.2276	.0001	169.8	.0030	.0600
#2	.0002	.0039	.0606	1.075	1.605	.2254	.0001	169.8	.0033	.0593
#3	.0005	.0038	.0627	1.089	1.602	.2292	-.0002	166.9	.0030	.0573

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0017**	**.0011**	**.6550**	**.0016**	**.0937**	**.0008**	**-.0004**	**.0003**	**.0966**
Stddev	.0005	.0006	.0238	.0002	.0007	.0001	.0007	.0000	.0031
%RSD	28.60	56.56	3.639	13.90	.7625	15.53	210.7	12.91	3.218
#1	-.0014	.0017	.6685	.0017	.0943	.0010	.0005	.0003	.0981
#2	-.0023	.0005	.6689	.0018	.0929	.0008	-.0008	.0003	.0987
#3	-.0014	.0009	.6274	.0013	.0939	.0007	-.0008	.0003	.0930

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7570.0**	**35607.**	**5936.6**
Stddev	205.7	107.	54.2
%RSD	2.7174	.30075	.91273
#1	7463.5	35549.	5879.5
#2	7439.3	35542.	5987.3
#3	7807.1	35731.	5942.8

Sample Name: CCV Acquired: 12/6/2018 17:32:01 Type: QC
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4760**	**.5273**	**.5089**	**.5006**	**.5297**	**.4793**	**-.0024**	**.4975**	**.4933**	**.5030**
Stddev	.0011	.0059	.0073	.0072	.0020	.0031	.0007	.0062	.0068	.0069
%RSD	.2221	1.123	1.444	1.446	.3730	.6511	27.38	1.256	1.383	1.379
#1	.4748	.5337	.5140	.5060	.5275	.4760	-.0017	.4936	.4980	.5078
#2	.4769	.5263	.5123	.5034	.5305	.4797	-.0026	.5047	.4963	.5062
#3	.4763	.5220	.5005	.4923	.5312	.4822	-.0030	.4943	.4854	.4950
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5057**	**.5083**	**.4862**	**4.910**	**.5463**	**.4835**	**.5006**	**10.37**	**.4874**	**.5155**
Stddev	.0037	.0013	.0049	.058	.0070	.0045	.0070	.04	.0066	.0059
%RSD	.7300	.2565	1.007	1.187	1.283	.9384	1.390	.4096	1.364	1.150
#1	.5015	.5068	.4808	4.856	.5391	.4798	.5054	10.32	.4923	.5199
#2	.5069	.5091	.4875	4.901	.5469	.4822	.5037	10.39	.4901	.5178
#3	.5086	.5089	.4903	4.972	.5531	.4886	.4926	10.40	.4799	.5088
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5079**	**.5043**	**5.140**	**.4838**	**.4888**	**.4703**	**.4987**	**.5017**	**.4942**
Stddev	.0083	.0071	.073	.0055	.0037	.0030	.0053	.0032	.0069
%RSD	1.629	1.410	1.416	1.131	.7561	.6410	1.053	.6396	1.399
#1	.5143	.5068	5.194	.4870	.4846	.4670	.5035	.4980	.4995
#2	.5109	.5098	5.168	.4869	.4903	.4730	.4996	.5033	.4968
#3	.4986	.4962	5.057	.4775	.4915	.4708	.4931	.5038	.4864
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7869.0**	**37385.**	**6135.8**
Stddev	103.4	203.	48.2
%RSD	1.3134	.54405	.78597
#1	7798.1	37613.	6180.0
#2	7821.3	37321.	6143.1
#3	7987.6	37222.	6084.4

Sample Name: CCB Acquired: 12/6/2018 17:36:51 Type: QC
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0002**	**-.0084**	**-.0002**	**.0003**	**.0003**	**.0001**	**.0001**	**.0068**	**.0001**	**.0001**
Stddev	.0002	.0074	.0007	.0005	.0001	.0000	.0005	.0078	.0000	.0000
%RSD	127.6	87.97	354.0	169.2	43.70	22.84	529.3	115.0	30.28	70.17
#1	-.0003	-.0156	.0002	.0004	.0004	.0002	-.0004	-.0021	.0002	.0000
#2	-.0002	-.0087	-.0011	.0007	.0004	.0001	.0005	.0126	.0001	.0001
#3	.0001	-.0008	.0002	-.0003	.0002	.0001	.0002	.0100	.0001	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0002**	**-.0016**	**.0233**	**.0021**	**-.0002**	**.0006**	**.0857**	**.0000**	**.0005**
Stddev	.0003	.0005	.0008	.0299	.0010	.0004	.0001	.0104	.0002	.0013
%RSD	122.8	311.5	48.73	128.4	48.11	223.9	18.04	12.15	465.9	250.1
#1	.0001	.0002	-.0014	.0575	.0019	-.0004	.0007	.0807	.0002	.0019
#2	.0000	.0007	-.0024	.0103	.0013	-.0004	.0006	.0977	.0001	-.0007
#3	.0007	-.0003	-.0009	.0021	.0033	.0003	.0005	.0788	-.0002	.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0020**	**.0004**	**-.0039**	**.0025**	**.0000**	**.0008**	**.0007**	**-.0001**	**.0001**
Stddev	.0006	.0007	.0014	.0011	.0000	.0001	.0004	.0003	.0001
%RSD	31.63	187.1	35.37	42.79	394.5	14.06	57.20	304.9	76.93
#1	-.0018	-.0003	-.0028	.0034	.0000	.0009	.0011	-.0004	.0003
#2	-.0015	.0003	-.0036	.0028	-.0000	.0007	.0008	.0001	.0001
#3	-.0027	.0012	-.0055	.0013	.0000	.0009	.0003	.0001	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**8024.7**	**37338.**	**6122.5**
Stddev	332.1	102.	77.6
%RSD	4.1385	.27213	1.2670
#1	7821.3	37220.	6152.4
#2	7844.7	37400.	6034.5
#3	8407.9	37392.	6180.7

Sample Name: WG1186025-2,T,8 Acquired: 12/6/2018 17:41:55 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0526**	**6.319**	**.1367**	**.1707**	**.4607**	**.1987**	**-.0022**	**4.614**	**.2196**	**.1861**
Stddev	.0011	.032	.0030	.0054	.0013	.0008	.0007	.025	.0063	.0055
%RSD	2.021	.5065	2.185	3.175	.2871	.4186	30.72	.5384	2.857	2.974
#1	.0517	6.284	.1386	.1739	.4591	.1978	-.0028	4.586	.2228	.1890
#2	.0522	6.327	.1383	.1739	.4614	.1994	-.0024	4.624	.2235	.1896
#3	.0538	6.347	.1333	.1645	.4615	.1989	-.0015	4.633	.2123	.1798

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1398**	**.1951**	**14.35**	**1.693**	**2.326**	**.3205**	**.1832**	**.1866**	**.1564**	**.2219**
Stddev	.0031	.0041	.06	.027	.009	.0009	.0053	.0034	.0046	.0067
%RSD	2.190	2.095	.3920	1.593	.4039	.2800	2.894	1.834	2.933	3.037
#1	.1367	.1911	14.29	1.701	2.316	.3196	.1860	.1906	.1588	.2251
#2	.1398	.1951	14.40	1.714	2.329	.3205	.1866	.1847	.1592	.2264
#3	.1428	.1992	14.36	1.662	2.334	.3214	.1771	.1846	.1511	.2141

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0941**	**.0750**	**.8407**	**.1300**	**.0939**	**.2922**	**.2521**	**.1715**	**.2115**
Stddev	.0031	.0020	.0227	.0034	.0003	.0057	.0066	.0038	.0060
%RSD	3.296	2.642	2.705	2.638	.3636	1.943	2.600	2.236	2.859
#1	.0964	.0765	.8488	.1318	.0938	.2869	.2561	.1680	.2145
#2	.0953	.0757	.8584	.1323	.0942	.2915	.2556	.1710	.2154
#3	.0906	.0728	.8151	.1261	.0936	.2982	.2445	.1756	.2045

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7965.8**	**37552.**	**6109.2**
Stddev	193.3	580.	7.7
%RSD	2.4272	1.5443	.12652
#1	7859.9	38099.	6108.7
#2	7848.5	37614.	6117.2
#3	8188.9	36944.	6101.7

Sample Name: WG1186025-3,T,8 Acquired: 12/6/2018 17:46:45 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0514**	**6.251**	**.1382**	**.1721**	**.4578**	**.1968**	**-.0019**	**4.578**	**.2213**	**.1876**
Stddev	.0011	.168	.0052	.0065	.0129	.0055	.0004	.130	.0073	.0060
%RSD	2.144	2.681	3.728	3.769	2.827	2.780	20.42	2.828	3.282	3.183
#1	.0516	6.150	.1420	.1754	.4490	.1935	-.0022	4.505	.2254	.1909
#2	.0524	6.158	.1402	.1761	.4516	.1938	-.0015	4.501	.2256	.1912
#3	.0502	6.444	.1323	.1646	.4726	.2031	-.0021	4.727	.2129	.1807

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1382**	**.1924**	**14.24**	**1.680**	**2.313**	**.3186**	**.1842**	**.1776**	**.1572**	**.2246**
Stddev	.0021	.0032	.38	.051	.041	.0082	.0063	.0024	.0047	.0081
%RSD	1.529	1.674	2.693	3.032	1.778	2.588	3.403	1.357	2.993	3.597
#1	.1385	.1928	13.99	1.669	2.284	.3127	.1877	.1758	.1597	.2299
#2	.1401	.1953	14.04	1.636	2.296	.3151	.1880	.1803	.1601	.2286
#3	.1360	.1889	14.68	1.736	2.360	.3280	.1770	.1768	.1518	.2153

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0951**	**.0758**	**.8453**	**.1313**	**.0929**	**.2878**	**.2544**	**.1690**	**.2146**
Stddev	.0034	.0027	.0255	.0049	.0027	.0038	.0083	.0027	.0071
%RSD	3.529	3.530	3.012	3.731	2.872	1.312	3.272	1.615	3.286
#1	.0969	.0764	.8634	.1338	.0912	.2883	.2585	.1695	.2184
#2	.0972	.0782	.8563	.1344	.0915	.2913	.2598	.1714	.2189
#3	.0912	.0729	.8162	.1256	.0960	.2838	.2448	.1660	.2065

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7964.0**	**37909.**	**6134.6**
Stddev	217.7	447.	118.4
%RSD	2.7331	1.1779	1.9300
#1	7816.7	37871.	6183.6
#2	7861.4	37483.	6220.6
#3	8214.0	38374.	5999.6

Sample Name: L1849087-13,T Acquired: 12/6/2018 17:51:34 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**260.5**	**.1184**	**.2163**	**.7546**	**.0104**	**-.0035**	**17.97**	**.0037**	**.1154**
Stddev	.0004	.5	.0026	.0037	.0024	.0001	.0002	.05	.0000	.0017
%RSD	126.2	.1883	2.217	1.721	.3118	.5310	5.906	.2636	.6619	1.473
#1	-.0000	260.0	.1182	.2185	.7545	.0104	-.0037	18.03	.0037	.1165
#2	.0008	261.0	.1210	.2184	.7570	.0104	-.0033	17.93	.0037	.1163
#3	.0002	260.5	.1158	.2120	.7523	.0103	-.0036	17.97	.0037	.1134

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4033**	**.2206**	**227.6**	**42.95**	**69.64**	**3.456**	**.0073**	**3.228**	**.3029**	**.3717**
Stddev	.0030	.0012	.2	.12	.73	.006	.0002	.016	.0046	.0063
%RSD	.7318	.5573	.0953	.2906	1.046	.1834	2.776	.4933	1.503	1.700
#1	.4066	.2219	227.3	42.90	70.46	3.449	.0074	3.218	.3058	.3765
#2	.4020	.2195	227.7	43.10	69.06	3.455	.0074	3.246	.3053	.3741
#3	.4011	.2204	227.7	42.86	69.41	3.462	.0071	3.219	.2977	.3645

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0142**	**-.0040**	**9.709**	**.0190**	**.1076**	**11.09**	**-.0039**	**.4543**	**.8184**
Stddev	.0010	.0019	.156	.0007	.0006	.04	.0005	.0020	.0109
%RSD	6.848	47.06	1.605	3.445	.5729	.3238	13.54	.4442	1.332
#1	.0141	-.0059	9.787	.0196	.1072	11.05	-.0033	.4564	.8256
#2	.0153	-.0037	9.809	.0183	.1083	11.10	-.0044	.4524	.8238
#3	.0133	-.0022	9.529	.0191	.1072	11.12	-.0040	.4540	.8059

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**8185.5**	**39480.**	**6753.2**
Stddev	107.6	104.	43.9
%RSD	1.3139	.26431	.64983
#1	8118.4	39361.	6703.3
#2	8128.5	39554.	6786.0
#3	8309.5	39526.	6770.2

Sample Name: L1849087-14,T Acquired: 12/6/2018 17:56:30 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**146.7**	**.2484**	**.0367**	**.6287**	**.0086**	**.0047**	**15.64**	**.0043**	**.1312**
Stddev	.0002	1.6	.0040	.0010	.0078	.0001	.0016	.11	.0001	.0024
%RSD	324.7	1.097	1.613	2.780	1.236	.9020	33.57	.7343	2.326	1.862
#1	-.0002	148.4	.2499	.0374	.6371	.0087	.0065	15.75	.0044	.1324
#2	.0001	146.5	.2515	.0371	.6272	.0086	.0044	15.65	.0043	.1328
#3	.0000	145.2	.2439	.0355	.6218	.0085	.0034	15.52	.0042	.1283

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4351**	**.2476**	**265.8**	**30.05**	**79.98**	**3.429**	**.0109**	**1.324**	**.3984**	**.0961**
Stddev	.0016	.0003	2.5	.24	.46	.032	.0002	.010	.0072	.0031
%RSD	.3667	.1412	.9287	.7862	.5748	.9444	1.661	.7318	1.815	3.177
#1	.4337	.2472	268.5	30.30	80.45	3.460	.0110	1.335	.4020	.0959
#2	.4368	.2478	265.3	30.04	79.95	3.432	.0110	1.319	.4030	.0993
#3	.4348	.2479	263.7	29.83	79.53	3.396	.0107	1.318	.3900	.0932

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0111**	**-.0078**	**5.249**	**.0084**	**.0904**	**6.230**	**-.0011**	**.3862**	**.5338**
Stddev	.0007	.0014	.103	.0003	.0012	.012	.0008	.0009	.0094
%RSD	6.612	17.93	1.972	3.156	1.374	.1903	71.12	.2212	1.760
#1	.0118	-.0093	5.320	.0082	.0917	6.217	-.0016	.3855	.5399
#2	.0103	-.0066	5.297	.0087	.0902	6.240	-.0015	.3872	.5384
#3	.0111	-.0074	5.130	.0084	.0893	6.234	-.0002	.3861	.5230

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**8544.1**	**40819.**	**6787.3**
Stddev	134.2	83.	48.9
%RSD	1.5705	.20351	.72094
#1	8459.5	40867.	6732.7
#2	8474.1	40866.	6801.9
#3	8698.8	40723.	6827.3

Sample Name: L1849322-01,T Acquired: 12/6/2018 18:01:19 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0011**	**129.4**	**.1273**	**.0204**	**.6463**	**.0058**	**.0044**	**33.80**	**.0053**	**.0998**
Stddev	.0003	.5	.0031	.0006	.0006	.0001	.0006	.18	.0001	.0021
%RSD	22.96	.3490	2.428	2.891	.0900	.9466	14.09	.5211	2.258	2.088
#1	.0008	129.8	.1279	.0208	.6462	.0058	.0044	33.86	.0055	.1009
#2	.0013	129.0	.1300	.0206	.6457	.0057	.0049	33.60	.0053	.1010
#3	.0012	129.6	.1239	.0197	.6469	.0058	.0037	33.94	.0052	.0974

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2566**	**.8002**	**175.1**	**12.19**	**44.90**	**3.474**	**.0054**	**5.704**	**.2058**	**1.137**
Stddev	.0013	.0042	.8	.02	.40	.017	.0003	.012	.0045	.026
%RSD	.5052	.5212	.4780	.1974	.8912	.4999	5.438	.2177	2.210	2.320
#1	.2561	.8010	175.3	12.18	44.86	3.489	.0053	5.706	.2083	1.152
#2	.2556	.7957	174.1	12.17	44.52	3.455	.0057	5.690	.2086	1.151
#3	.2580	.8040	175.7	12.22	45.32	3.479	.0052	5.715	.2006	1.106

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0134**	**.0012**	**4.755**	**.0517**	**.2705**	**5.365**	**-.0034**	**.3500**	**1.143**
Stddev	.0000	.0009	.114	.0008	.0009	.032	.0006	.0019	.026
%RSD	.3076	73.17	2.396	1.639	.3495	.5970	16.74	.5320	2.285
#1	.0135	.0003	4.832	.0524	.2713	5.363	-.0033	.3503	1.160
#2	.0135	.0014	4.808	.0520	.2695	5.333	-.0029	.3480	1.156
#3	.0134	.0021	4.624	.0508	.2708	5.397	-.0041	.3517	1.113

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**8319.7**	**40147.**	**6683.9**
Stddev	150.4	187.	37.7
%RSD	1.8079	.46613	.56383
#1	8223.9	40121.	6695.0
#2	8242.2	40345.	6714.9
#3	8493.1	39973.	6642.0

Sample Name: L1849377-01,T Acquired: 12/6/2018 18:06:09 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0018**	**120.9**	**.6816**	**.0588**	**1.388**	**.0083**	**.0151**	**192.4**	**.0126**	**.1392**
Stddev	.0001	.1	.0092	.0009	.005	.0000	.0008	.5	.0002	.0017
%RSD	5.799	.0896	1.348	1.583	.3634	.1034	5.280	.2641	1.821	1.219
#1	.0019	120.9	.6866	.0596	1.394	.0083	.0158	192.4	.0127	.1401
#2	.0017	120.8	.6872	.0591	1.386	.0083	.0142	191.9	.0127	.1403
#3	.0017	121.0	.6710	.0578	1.385	.0083	.0153	192.9	.0123	.1373

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3747**	**1.058**	**309.2**	**14.39**	**51.80**	**4.485**	**.0274**	**4.373**	**.3509**	**2.473**
Stddev	.0003	.004	.7	.05	.14	.010	.0001	.013	.0047	.033
%RSD	.0830	.4220	.2260	.3326	.2608	.2188	.4919	.2883	1.349	1.336
#1	.3745	1.062	309.2	14.45	51.64	4.482	.0274	4.385	.3539	2.489
#2	.3750	1.053	308.5	14.38	51.89	4.477	.0276	4.374	.3534	2.495
#3	.3745	1.059	309.9	14.36	51.86	4.496	.0273	4.360	.3455	2.435

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0448**	**.0024**	**6.123**	**.0743**	**.8278**	**8.124**	**-.0074**	**.6498**	**2.565**
Stddev	.0021	.0021	.072	.0009	.0018	.040	.0007	.0024	.036
%RSD	4.582	87.45	1.184	1.199	.2158	.4893	9.786	.3679	1.409
#1	.0426	.0015	6.160	.0753	.8297	8.124	-.0066	.6515	2.588
#2	.0466	.0048	6.169	.0743	.8261	8.085	-.0077	.6470	2.583
#3	.0453	.0009	6.039	.0735	.8277	8.164	-.0079	.6507	2.523

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**8230.5**	**40230.**	**6774.1**
Stddev	91.4	99.	22.7
%RSD	1.1110	.24544	.33508
#1	8180.4	40179.	6796.6
#2	8175.0	40343.	6774.6
#3	8336.0	40166.	6751.2

Sample Name: L1849481-01,T Acquired: 12/6/2018 18:11:05 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**135.5**	**.0790**	**.0257**	**.9987**	**.0051**	**.0140**	**91.68**	**.0073**	**.1527**
Stddev	.0003	.3	.0027	.0006	.0004	.0001	.0003	.30	.0001	.0025
%RSD	49.76	.2205	3.410	2.516	.0443	1.365	1.991	.3229	1.292	1.615
#1	.0007	135.8	.0783	.0257	.9983	.0051	.0138	92.01	.0074	.1543
#2	.0002	135.2	.0820	.0264	.9991	.0050	.0138	91.45	.0073	.1539
#3	.0006	135.6	.0767	.0251	.9989	.0051	.0143	91.58	.0072	.1499

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2951**	**1.120**	**337.2**	**16.91**	**69.04**	**5.404**	**.0089**	**1.864**	**.2516**	**1.467**
Stddev	.0030	.011	1.0	.07	.34	.019	.0003	.009	.0037	.023
%RSD	1.019	.9611	.2852	.3843	.4905	.3526	2.929	.4745	1.485	1.588
#1	.2966	1.119	338.3	16.91	69.42	5.425	.0091	1.861	.2536	1.484
#2	.2917	1.110	336.4	16.84	68.78	5.387	.0091	1.874	.2538	1.477
#3	.2971	1.132	337.0	16.97	68.93	5.399	.0086	1.857	.2472	1.441

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0233**	**-.0023**	**13.21**	**.4236**	**.3893**	**6.765**	**-.0036**	**.5546**	**1.195**
Stddev	.0006	.0033	.22	.0075	.0016	.035	.0010	.0047	.019
%RSD	2.467	144.9	1.681	1.772	.4160	.5239	27.71	.8550	1.587
#1	.0232	-.0054	13.33	.4262	.3905	6.759	-.0035	.5573	1.207
#2	.0228	-.0026	13.34	.4295	.3875	6.734	-.0027	.5491	1.205
#3	.0239	.0012	12.95	.4151	.3899	6.804	-.0047	.5572	1.173

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**8123.7**	**39518.**	**6542.0**
Stddev	103.6	232.	23.6
%RSD	1.2750	.58764	.36079
#1	8059.6	39411.	6516.0
#2	8068.2	39785.	6547.7
#3	8243.2	39359.	6562.2

Sample Name: L1849481-02,T Acquired: 12/6/2018 18:15:59 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**96.56**	**.0389**	**.0040**	**.3546**	**.0038**	**.0101**	**25.94**	**.0038**	**.1354**
Stddev	.0002	.12	.0003	.0004	.0009	.0001	.0003	.11	.0000	.0025
%RSD	68.62	.1291	.7503	9.221	.2610	2.314	2.712	.4251	.8536	1.857
#1	.0003	96.57	.0393	.0039	.3553	.0039	.0104	26.03	.0038	.1370
#2	.0005	96.43	.0387	.0044	.3536	.0037	.0101	25.82	.0038	.1368
#3	.0001	96.68	.0389	.0037	.3550	.0037	.0099	25.98	.0038	.1325

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1720**	**.2993**	**221.5**	**6.804**	**55.30**	**6.164**	**.0076**	**1.326**	**.1746**	**.0674**
Stddev	.0010	.0002	.2	.036	.10	.006	.0002	.006	.0028	.0029
%RSD	.5644	.0834	.0991	.5307	.1867	.1040	3.285	.4317	1.582	4.368
#1	.1720	.2995	221.7	6.800	55.42	6.162	.0075	1.320	.1761	.0701
#2	.1729	.2990	221.5	6.770	55.24	6.160	.0079	1.327	.1764	.0678
#3	.1710	.2992	221.3	6.842	55.24	6.172	.0074	1.332	.1715	.0643

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0099**	**-.0025**	**4.209**	**.0068**	**.0883**	**4.598**	**-.0026**	**.3438**	**.4883**
Stddev	.0015	.0007	.075	.0004	.0003	.001	.0005	.0003	.0080
%RSD	14.74	29.10	1.779	5.346	.2981	.0203	19.13	.0838	1.636
#1	.0099	-.0032	4.254	.0072	.0880	4.599	-.0020	.3441	.4933
#2	.0114	-.0025	4.250	.0068	.0886	4.597	-.0029	.3438	.4924
#3	.0085	-.0018	4.122	.0064	.0882	4.597	-.0028	.3435	.4791

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**8202.9**	**39547.**	**6513.0**
Stddev	134.4	44.	14.3
%RSD	1.6391	.11051	.22027
#1	8117.1	39539.	6499.5
#2	8133.7	39595.	6528.1
#3	8357.8	39509.	6511.3

Sample Name: L1848674-15,C Acquired: 12/6/2018 18:20:50 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0685**	**.0014**	**.0214**	**.0459**	**.0001**	**-.0008**	**38.46**	**.0005**	**.0033**
Stddev	.0002	.0049	.0008	.0006	.0006	.0000	.0003	.27	.0000	.0001
%RSD	140.9	7.108	57.52	2.907	1.304	32.20	41.05	.6898	3.361	4.389
#1	.0002	.0698	.0005	.0218	.0454	.0001	-.0005	38.21	.0005	.0034
#2	.0002	.0632	.0017	.0217	.0457	.0001	-.0012	38.45	.0005	.0033
#3	-.0001	.0727	.0020	.0206	.0466	.0001	-.0007	38.74	.0005	.0031

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0009**	**.0013**	**2.315**	**1.058**	**1.653**	**.3061**	**-.0004**	**174.2**	**.0070**	**.1136**
Stddev	.0001	.0002	.033	.019	.001	.0043	.0002	1.1	.0005	.0036
%RSD	11.46	11.70	1.440	1.820	.0434	1.419	45.35	.6125	6.738	3.142
#1	.0008	.0012	2.280	1.048	1.653	.3016	-.0002	173.0	.0073	.1151
#2	.0010	.0015	2.321	1.046	1.653	.3063	-.0004	174.9	.0072	.1162
#3	.0008	.0013	2.346	1.080	1.654	.3103	-.0005	174.8	.0064	.1096

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0012**	**.0005**	**.8487**	**.0007**	**.1146**	**.0049**	**-.0003**	**-.0000**	**.1779**
Stddev	.0003	.0005	.0330	.0003	.0011	.0009	.0003	.0003	.0060
%RSD	22.35	98.19	3.884	44.40	.9318	17.47	108.3	1189.	3.353
#1	-.0012	-.0000	.8725	.0010	.1134	.0058	-.0004	.0003	.1813
#2	-.0015	.0010	.8626	.0004	.1152	.0048	.0001	.0001	.1815
#3	-.0009	.0006	.8111	.0007	.1152	.0041	-.0004	-.0004	.1710

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7590.9**	**35870.**	**5793.0**
Stddev	224.1	128.	20.6
%RSD	2.9526	.35705	.35540
#1	7443.4	35763.	5799.8
#2	7480.5	35835.	5809.3
#3	7848.8	36012.	5769.9

Sample Name: L1848674-16,C Acquired: 12/6/2018 18:25:56 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment: 10

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**.0334**	**.0026**	**.0278**	**.0368**	**.0001**	**-.0014**	**25.02**	**.0004**	**.0027**
Stddev	.0004	.0027	.0017	.0012	.0007	.0000	.0006	.47	.0000	.0000
%RSD	1469.	8.039	63.39	4.240	1.786	33.60	42.28	1.863	2.095	1.856
#1	-.0003	.0304	.0013	.0288	.0360	.0001	-.0008	24.52	.0004	.0027
#2	-.0001	.0341	.0021	.0280	.0371	.0001	-.0019	25.44	.0004	.0027
#3	.0004	.0356	.0045	.0265	.0372	.0001	-.0014	25.10	.0004	.0026

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**.0045**	**.1036**	**1.071**	**1.383**	**.2189**	**.0000**	**172.6**	**.0032**	**.0958**
Stddev	.0002	.0001	.0031	.052	.024	.0039	.0001	2.8	.0002	.0026
%RSD	36.75	2.203	3.000	4.901	1.721	1.804	365.4	1.625	7.079	2.730
#1	.0007	.0044	.1000	1.069	1.356	.2144	.0000	170.8	.0030	.0970
#2	.0003	.0045	.1058	1.125	1.401	.2217	.0002	175.8	.0034	.0975
#3	.0005	.0046	.1049	1.020	1.392	.2206	-.0001	171.1	.0031	.0927

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0009**	**.0008**	**.5893**	**.0005**	**.0855**	**.0015**	**.0004**	**.0003**	**.1073**
Stddev	.0008	.0009	.0165	.0002	.0015	.0002	.0002	.0001	.0032
%RSD	82.57	112.0	2.807	33.40	1.702	11.08	65.84	33.56	2.952
#1	-.0000	-.0001	.5976	.0007	.0840	.0016	.0005	.0004	.1092
#2	-.0014	.0017	.6002	.0004	.0869	.0013	.0005	.0004	.1090
#3	-.0013	.0009	.5703	.0004	.0857	.0015	.0001	.0002	.1036

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7544.6**	**35815.**	**5807.7**
Stddev	186.3	329.	86.2
%RSD	2.4689	.91836	1.4847
#1	7433.0	36191.	5903.3
#2	7441.2	35580.	5735.8
#3	7759.6	35674.	5784.0

Sample Name: CCV Acquired: 12/6/2018 18:31:03 Type: QC
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4776**	**.5319**	**.5091**	**.5017**	**.5341**	**.4761**	**-.0026**	**.4969**	**.4918**	**.5034**
Stddev	.0035	.0084	.0071	.0067	.0027	.0022	.0008	.0109	.0061	.0067
%RSD	.7370	1.588	1.389	1.329	.5058	.4558	29.80	2.189	1.239	1.340
#1	.4754	.5229	.5132	.5066	.5372	.4785	-.0024	.5086	.4957	.5082
#2	.4817	.5332	.5132	.5043	.5326	.4746	-.0034	.4948	.4948	.5063
#3	.4758	.5396	.5010	.4941	.5324	.4751	-.0019	.4872	.4847	.4957
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5110**	**.5151**	**.4862**	**4.959**	F **.5665**	**.4840**	**.5014**	**10.53**	**.4871**	**.5145**
Stddev	.0048	.0033	.0028	.035	.0043	.0025	.0063	.05	.0062	.0064
%RSD	.9404	.6339	.5833	.6970	.7639	.5211	1.258	.4465	1.275	1.253
#1	.5095	.5143	.4870	4.953	.5706	.4868	.5052	10.58	.4911	.5171
#2	.5164	.5187	.4886	4.928	.5667	.4819	.5048	10.53	.4904	.5192
#3	.5072	.5123	.4831	4.996	.5620	.4833	.4941	10.49	.4800	.5071
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					.5524					
Low Limit					.4476					

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5102**	**.5084**	**5.168**	**.4811**	**.4909**	**.4729**	**.4981**	**.5062**	**.4924**
Stddev	.0069	.0067	.071	.0065	.0016	.0037	.0074	.0041	.0060
%RSD	1.360	1.326	1.365	1.341	.3335	.7868	1.482	.8027	1.225
#1	.5156	.5144	5.223	.4845	.4927	.4716	.5017	.5043	.4964
#2	.5127	.5096	5.192	.4851	.4902	.4771	.5030	.5108	.4952
#3	.5024	.5011	5.088	.4737	.4896	.4700	.4896	.5034	.4854
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7874.1**	**37164.**	**5940.5**
Stddev	98.9	210.	38.8
%RSD	1.2554	.56452	.65262
#1	7806.0	37258.	5896.2
#2	7828.9	36923.	5968.5
#3	7987.5	37310.	5956.6

Sample Name: CCB Acquired: 12/6/2018 18:35:54 Type: QC
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0035**	**.0007**	**-.0010**	**.0006**	**.0001**	**.0002**	**.0045**	**.0001**	**-.0001**
Stddev	.0002	.0066	.0009	.0003	.0002	.0001	.0007	.0055	.0000	.0001
%RSD	95.71	186.8	132.4	24.16	38.70	101.2	430.5	122.9	22.75	109.8
#1	.0005	.0027	.0004	-.0008	.0005	.0001	-.0006	-.0005	.0002	-.0001
#2	.0001	.0105	.0016	-.0013	.0004	-.0000	.0009	.0105	.0001	.0000
#3	.0002	-.0026	-.0001	-.0010	.0008	.0001	.0003	.0036	.0001	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**.0005**	**.0020**	**.0339**	**.0037**	**-.0002**	**.0007**	**.0799**	**-.0001**	**.0002**
Stddev	.0000	.0001	.0002	.0304	.0033	.0005	.0003	.0070	.0001	.0011
%RSD	13.16	26.77	9.478	89.65	89.07	232.7	39.36	8.782	106.0	441.2
#1	.0003	.0004	.0020	.0167	.0075	-.0007	.0010	.0830	-.0001	-.0008
#2	.0004	.0004	.0021	.0691	.0025	.0003	.0007	.0719	-.0002	.0014
#3	.0003	.0006	.0017	.0161	.0012	-.0002	.0004	.0848	-.0000	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0012**	**-.0008**	**.0010**	**.0023**	**-.0000**	**.0008**	**.0005**	**-.0001**	**.0002**
Stddev	.0013	.0005	.0022	.0009	.0003	.0002	.0010	.0002	.0001
%RSD	107.9	70.79	211.9	38.38	10150.	25.76	196.5	190.2	39.09
#1	.0002	-.0014	.0021	.0031	.0000	.0009	.0006	.0000	.0002
#2	-.0023	-.0004	.0025	.0023	-.0003	.0009	-.0005	-.0000	.0002
#3	-.0014	-.0005	-.0015	.0014	.0003	.0006	.0015	-.0003	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**8022.0**	**37543.**	**5891.8**
Stddev	331.1	144.	141.2
%RSD	4.1281	.38342	2.3957
#1	7842.9	37483.	6031.3
#2	7818.9	37707.	5749.0
#3	8404.1	37439.	5895.1

Sample Name: XCCV Acquired: 12/6/2018 18:48:49 Type: QC
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5051**	F **.5581**	**.5426**	**.5341**	F **.5628**	**.5017**	**-.0030**	**.5089**	**.5237**	**.5353**
Stddev	.0036	.0070	.0044	.0059	.0107	.0102	.0009	.0070	.0048	.0048
%RSD	.7033	1.251	.8052	1.107	1.893	2.032	30.40	1.381	.9144	.9056
#1	.5012	.5502	.5439	.5371	.5506	.4900	-.0037	.5010	.5261	.5378
#2	.5082	.5634	.5462	.5379	.5703	.5081	-.0020	.5109	.5268	.5385
#3	.5059	.5608	.5378	.5273	.5674	.5070	-.0032	.5146	.5182	.5298
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit		.5524			.5524					
Low Limit		.4476			.4476					

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5393**	**.5428**	**.5062**	**5.198**	F **.5880**	**.5085**	**.5340**	**11.00**	**.5180**	**.5475**
Stddev	.0054	.0054	.0107	.092	.0091	.0122	.0052	.20	.0048	.0058
%RSD	1.009	.9995	2.106	1.762	1.553	2.405	.9822	1.791	.9233	1.057
#1	.5333	.5372	.4949	5.093	.5780	.4949	.5361	10.78	.5204	.5507
#2	.5438	.5480	.5161	5.259	.5958	.5185	.5378	11.13	.5212	.5509
#3	.5408	.5433	.5076	5.243	.5901	.5122	.5280	11.10	.5125	.5408
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					.5524					
Low Limit					.4476					

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5422**	**.5393**	**5.485**	**.5142**	**.5168**	**.4968**	**.5299**	**.5323**	**.5244**
Stddev	.0060	.0036	.054	.0032	.0102	.0048	.0032	.0048	.0043
%RSD	1.102	.6598	.9794	.6301	1.983	.9574	.5973	.9100	.8274
#1	.5417	.5405	5.504	.5162	.5050	.4915	.5320	.5270	.5266
#2	.5485	.5421	5.526	.5160	.5232	.5007	.5314	.5364	.5273
#3	.5365	.5353	5.424	.5105	.5222	.4983	.5262	.5334	.5195
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7455.3**	**35473.**	**5695.7**
Stddev	73.5	356.	110.5
%RSD	.98591	1.0035	1.9404
#1	7418.7	35839.	5816.6
#2	7407.2	35128.	5600.0
#3	7539.9	35453.	5670.3

Sample Name: Std 0 Acquired: 12/6/2018 19:00:16 Type: Cal
Method: Trace 6_E200.7_SW6010(v116) Mode: IR Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.0004**	**-.0027**	**-.0000**	**.0011**	**.0046**	**.0001**	**.0005**	**.0014**	**.0004**	**-.0001**
Stddev	.0002	.0005	.0000	.0001	.0010	.0005	.0002	.0005	.0001	.0001
%RSD	45.37	18.23	108.1	9.477	22.77	789.3	30.42	37.42	27.30	120.9
#1	-.0003	-.0033	-.0001	.0010	.0056	-.0001	.0004	.0019	.0003	-.0001
#2	-.0006	-.0026	.0000	.0011	.0047	.0006	.0006	.0009	.0004	-.0002
#3	-.0002	-.0023	-.0000	.0011	.0035	-.0003	.0007	.0013	.0004	.0000

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.0005**	**.0127**	**.0002**	**-.0057**	**-.0015**	**-.0002**	**.0009**	**.0013**	**-.0005**	**-.0002**
Stddev	.0001	.0000	.0001	.0012	.0009	.0001	.0000	.0017	.0001	.0002
%RSD	18.74	.3712	63.43	20.17	62.07	62.90	5.144	126.0	13.08	104.1
#1	-.0006	.0126	.0001	-.0071	-.0016	-.0004	.0009	.0028	-.0006	.0000
#2	-.0005	.0127	.0004	-.0049	-.0005	-.0001	.0009	-.0005	-.0006	-.0002
#3	-.0004	.0127	.0002	-.0052	-.0023	-.0001	.0008	.0016	-.0004	-.0003

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.0000**	**.0002**	**.0041**	**.0005**	**-.0049**	**.0006**	**-.0002**	**.0004**	**.0002**
Stddev	.0001	.0000	.0001	.0001	.0006	.0001	.0001	.0001	.0000
%RSD	328.8	15.29	2.948	20.02	12.62	14.04	69.33	25.94	7.745
#1	.0001	.0002	.0042	.0004	-.0042	.0006	-.0004	.0003	.0002
#2	-.0001	.0002	.0041	.0006	-.0051	.0007	-.0002	.0005	.0002
#3	-.0000	.0002	.0039	.0004	-.0053	.0005	-.0001	.0005	.0002

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7518.0**	**35255.**	**5554.1**
Stddev	153.5	403.	119.6
%RSD	2.0415	1.1417	2.1540
#1	7421.5	35498.	5416.4
#2	7437.6	34790.	5632.7
#3	7695.0	35476.	5613.2

Sample Name: Std 1 ICAL Acquired: 12/6/2018 19:05:16 Type: Cal
Method: Trace 6_E200.7_SW6010(v116) Mode: IR Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.6767**	**.0985**	**.0770**	**.3370**	**4.144**	**6.101**	**.2180**	**.0502**	**3.240**	**1.172**
Stddev	.0075	.0023	.0008	.0036	.092	.136	.0028	.0013	.033	.014
%RSD	1.107	2.381	1.045	1.071	2.229	2.224	1.273	2.524	1.020	1.157
#1	.6705	.0967	.0775	.3395	4.077	6.003	.2198	.0496	3.266	1.182
#2	.6850	.1011	.0774	.3386	4.249	6.256	.2195	.0517	3.252	1.177
#3	.6746	.0976	.0760	.3329	4.106	6.045	.2148	.0494	3.203	1.156

Elem	Cr2677	Cu3247	Fe2599	Mg2790	Mn2576R	Mo2020	Ni2316	Pb2203	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.4565**	**.9240**	**.0833**	**.3003**	**.4423**	**.6381**	**.5922**	**.1768**	**.1279**	**.0638**
Stddev	.0060	.0138	.0022	.0087	.0097	.0071	.0067	.0016	.0011	.0008
%RSD	1.309	1.491	2.599	2.905	2.199	1.107	1.136	.9233	.8946	1.317
#1	.4517	.9131	.0823	.2921	.4357	.6436	.5970	.1781	.1285	.0645
#2	.4632	.9395	.0858	.3094	.4535	.6406	.5950	.1773	.1287	.0641
#3	.4547	.9193	.0818	.2992	.4377	.6302	.5845	.1749	.1266	.0629

Elem	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.1741**	**4.464**	**.7524**	**.1323**	**.6300**	**.9754**
Stddev	.0017	.092	.0092	.0014	.0076	.0101
%RSD	.9933	2.069	1.228	1.089	1.203	1.031
#1	.1753	4.397	.7446	.1334	.6236	.9835
#2	.1748	4.570	.7626	.1328	.6384	.9786
#3	.1721	4.426	.7501	.1306	.6280	.9642

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7490.6**	**35327.**	**5635.0**
Stddev	72.5	339.	114.6
%RSD	.96791	.96040	2.0331
#1	7443.8	35581.	5725.7
#2	7453.8	34942.	5506.2
#3	7574.1	35458.	5673.0

Sample Name: Std 3 25 Fe K Na Si Acquired: 12/6/2018 19:10:00 Type: Cal
Method: Trace 6_E200.7_SW6010(v116) Mode: IR Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Al3961	Fe2599	K_7664	Na5895	Si2124
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2.450**	**2.079**	**1.999**	**6.820**	**1.561**
Stddev	.018	.015	.014	.056	.046
%RSD	.7462	.7405	.6983	.8238	2.963
#1	2.463	2.093	2.011	6.877	1.588
#2	2.459	2.080	2.002	6.820	1.586
#3	2.430	2.063	1.984	6.764	1.507

Int. Std.	Y_2243	Y_3710
Units	Cts/S	Cts/S
Avg	**7471.0**	**5614.9**
Stddev	181.2	33.5
%RSD	2.4255	.59741
#1	7360.9	5576.2
#2	7371.9	5636.2
#3	7680.1	5632.3

Sample Name: Std 2 10 Ca Mg Si Acquired: 12/6/2018 19:15:01 Type: Cal
Method: Trace 6_E200.7_SW6010(v116) Mode: IR Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ca3158	Mg2790	Si2124
Units	Cts/S	Cts/S	Cts/S
Avg	**.4827**	**3.085**	**.7419**
Stddev	.0044	.037	.0231
%RSD	.9046	1.217	3.114
#1	.4877	3.127	.7537
#2	.4796	3.055	.7567
#3	.4807	3.074	.7153

Int. Std.	Y_2243	Y_3710
Units	Cts/S	Cts/S
Avg	**7541.6**	**5668.4**
Stddev	186.6	57.2
%RSD	2.4742	1.0088
#1	7453.1	5602.7
#2	7415.7	5707.1
#3	7756.0	5695.3

Sample Name: ICV Acquired: 12/6/2018 19:20:03 Type: QC
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4892**	**.5253**	**.5017**	**.5006**	**.5055**	**.4876**	**-.0020**	**.5052**	**.4967**	**.4982**
Stddev	.0029	.0021	.0045	.0059	.0046	.0053	.0004	.0199	.0058	.0054
%RSD	.5932	.3940	.8970	1.171	.9128	1.078	22.78	3.935	1.169	1.079
#1	.4898	.5258	.5038	.5035	.5108	.4937	-.0018	.5277	.4983	.5004
#2	.4917	.5231	.5047	.5044	.5023	.4842	-.0017	.4979	.5015	.5021
#3	.4860	.5271	.4965	.4939	.5034	.4850	-.0025	.4900	.4902	.4921
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4912**	**.4906**	**.5127**	W **4.634**	**.5000**	**.5080**	**.4958**	**9.534**	**.4947**	**.5114**
Stddev	.0016	.0023	.0045	.067	.0083	.0055	.0053	.096	.0055	.0053
%RSD	.3223	.4776	.8760	1.443	1.663	1.083	1.061	1.009	1.103	1.035
#1	.4911	.4919	.5139	4.708	.5095	.5143	.4977	9.645	.4963	.5132
#2	.4928	.4921	.5164	4.578	.4944	.5044	.4999	9.487	.4992	.5156
#3	.4897	.4879	.5077	4.616	.4961	.5052	.4899	9.470	.4887	.5055
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				5.274						
Low Limit				4.726						

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5059**	**.4980**	**5.092**	**.4921**	**.4853**	**.4830**	**.4956**	**.5052**	**.4926**
Stddev	.0072	.0053	.056	.0041	.0055	.0017	.0051	.0017	.0054
%RSD	1.423	1.064	1.106	.8393	1.123	.3466	1.029	.3284	1.096
#1	.5088	.5017	5.117	.4925	.4915	.4846	.4972	.5063	.4945
#2	.5111	.5004	5.132	.4961	.4816	.4831	.4997	.5059	.4969
#3	.4977	.4920	5.028	.4878	.4827	.4813	.4899	.5033	.4866
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7494.9**	**35537.**	**5662.8**
Stddev	87.2	93.	69.4
%RSD	1.1634	.26134	1.2249
#1	7450.3	35463.	5582.7
#2	7439.0	35507.	5701.9
#3	7595.4	35641.	5703.8

Sample Name: ICB Acquired: 12/6/2018 19:24:52 Type: QC
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**.0089**	**-.0008**	**.0003**	**.0001**	**.0002**	**.0007**	**.0041**	**.0002**	**.0002**
Stddev	.0003	.0114	.0005	.0006	.0002	.0000	.0014	.0089	.0000	.0000
%RSD	597.3	127.9	59.64	176.2	137.3	16.19	197.8	218.1	6.065	19.60
#1	-.0001	.0016	-.0011	.0010	-.0001	.0002	.0014	.0144	.0002	.0002
#2	.0004	.0031	-.0003	.0001	.0002	.0002	-.0009	-.0003	.0002	.0002
#3	-.0001	.0220	-.0012	-.0001	.0003	.0002	.0016	-.0017	.0002	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**.0001**	**.0068**	**-.0004**	**.0023**	**-.0002**	**.0009**	**.0129**	**-.0000**	**.0006**
Stddev	.0003	.0004	.0013	.0234	.0018	.0004	.0002	.0056	.0002	.0010
%RSD	321.6	335.2	19.57	5744.	80.94	197.1	22.84	43.55	1286.	180.4
#1	-.0003	-.0001	.0055	-.0274	.0024	-.0005	.0010	.0078	-.0002	.0008
#2	.0003	.0006	.0067	.0110	.0040	.0003	.0010	.0189	-.0001	-.0006
#3	-.0003	-.0002	.0082	.0152	.0004	-.0003	.0007	.0120	.0002	.0015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0022**	**-.0003**	**.0005**	**.0015**	**.0001**	**.0004**	**-.0007**	**.0001**	**.0003**
Stddev	.0009	.0013	.0007	.0006	.0002	.0001	.0004	.0002	.0001
%RSD	40.08	415.8	163.3	42.76	197.4	20.01	57.39	157.0	26.78
#1	.0031	.0008	.0009	.0021	-.0001	.0004	-.0009	.0002	.0003
#2	.0024	.0000	.0008	.0014	.0002	.0004	-.0002	.0002	.0003
#3	.0013	-.0018	-.0004	.0009	.0002	.0005	-.0009	-.0001	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7672.4**	**35556.**	**5620.4**
Stddev	282.1	280.	23.1
%RSD	3.6765	.78668	.41088
#1	7515.4	35717.	5594.7
#2	7503.8	35233.	5627.2
#3	7998.1	35718.	5639.3

Sample Name: WG1186024-1,T Acquired: 12/6/2018 19:48:40 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment: RECAL

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0004**	**.0051**	**.0004**	**-.0010**	**.0000**	**-.0000**	**-.0006**	**.0144**	**-.0000**	**.0004**
Stddev	.0002	.0027	.0006	.0005	.0001	.0000	.0004	.0076	.0000	.0001
%RSD	67.50	53.56	157.6	43.03	989.4	100.6	68.15	52.64	111.2	20.41
#1	-.0004	.0050	.0009	-.0005	.0001	-.0001	-.0002	.0059	-.0001	.0004
#2	-.0006	.0024	.0004	-.0014	.0000	-.0000	-.0006	.0204	.0000	.0003
#3	-.0001	.0078	-.0002	-.0012	-.0001	.0000	-.0011	.0168	-.0000	.0004

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**-.0001**	**.0048**	**.0420**	**.0007**	**.0005**	**-.0006**	**.0811**	**.0005**	**-.0001**
Stddev	.0003	.0002	.0025	.0108	.0016	.0004	.0001	.0108	.0001	.0004
%RSD	275.5	295.8	52.75	25.81	230.5	77.00	13.63	13.35	10.41	614.8
#1	-.0003	.0002	.0054	.0350	-.0003	.0004	-.0005	.0912	.0006	.0004
#2	-.0004	-.0002	.0070	.0545	-.0002	.0009	-.0007	.0824	.0005	-.0001
#3	.0003	-.0002	.0020	.0366	.0026	.0002	-.0006	.0697	.0005	-.0004

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0009**	**-.0015**	**-.0098**	**-.0004**	**.0000**	**-.0005**	**.0005**	**-.0001**	**.0002**
Stddev	.0003	.0003	.0007	.0007	.0002	.0001	.0005	.0001	.0001
%RSD	27.09	20.77	6.860	193.6	1060.	23.00	93.00	95.17	37.50
#1	.0012	-.0013	-.0091	.0005	-.0001	-.0004	.0006	-.0001	.0001
#2	.0010	-.0019	-.0099	-.0007	-.0001	-.0007	-.0000	-.0002	.0002
#3	.0007	-.0013	-.0104	-.0009	.0002	-.0005	.0009	-.0000	.0003

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7524.8**	**35662.**	**5716.4**
Stddev	131.6	324.	66.3
%RSD	1.7488	.90870	1.1599
#1	7437.3	35540.	5727.0
#2	7460.9	35416.	5645.4
#3	7676.1	36029.	5776.7

Sample Name: L1849489-04,T Acquired: 12/6/2018 19:53:44 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008**	**239.7**	**.1626**	**.2170**	**.9743**	**.0101**	**.0081**	**75.89**	**.0071**	**.1836**
Stddev	.0002	4.0	.0037	.0033	.0161	.0002	.0006	1.28	.0001	.0023
%RSD	20.87	1.683	2.257	1.543	1.657	1.756	6.894	1.692	1.257	1.237
#1	.0008	242.5	.1666	.2194	.9869	.0102	.0079	76.65	.0072	.1850
#2	.0006	235.1	.1619	.2185	.9561	.0099	.0077	74.41	.0072	.1848
#3	.0010	241.7	.1593	.2132	.9798	.0101	.0087	76.61	.0071	.1810

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5149**	**.4520**	**363.5**	**81.06**	**110.3**	**5.892**	**.0129**	**27.52**	**.3654**	**.3969**
Stddev	.0043	.0040	5.9	1.27	1.0	.101	.0005	.45	.0045	.0069
%RSD	.8299	.8850	1.618	1.565	.9207	1.713	3.514	1.624	1.243	1.746
#1	.5166	.4565	367.1	81.93	110.9	5.957	.0134	27.84	.3686	.3994
#2	.5100	.4487	356.7	79.61	109.2	5.776	.0127	27.01	.3674	.4023
#3	.5180	.4509	366.6	81.65	111.0	5.943	.0125	27.72	.3602	.3891

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0263**	**-.0064**	**8.917**	**.0342**	**.4198**	**14.32**	**-.0041**	**.6686**	**1.218**
Stddev	.0008	.0020	.137	.0010	.0070	.09	.0005	.0043	.016
%RSD	2.868	31.50	1.538	2.808	1.660	.5951	11.61	.6495	1.293
#1	.0270	-.0050	8.989	.0352	.4248	14.37	-.0035	.6726	1.229
#2	.0255	-.0086	9.003	.0333	.4118	14.22	-.0042	.6640	1.226
#3	.0263	-.0055	8.759	.0340	.4228	14.37	-.0045	.6692	1.200

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**8098.8**	**39266.**	**6593.9**
Stddev	93.6	236.	83.7
%RSD	1.1560	.60029	1.2696
#1	8043.2	39096.	6545.7
#2	8046.4	39535.	6690.6
#3	8206.9	39167.	6545.4

Sample Name: L1849567-01,T Acquired: 12/6/2018 19:58:49 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**112.8**	**.6646**	**.0746**	**.9288**	**.0068**	**.0044**	**72.41**	**.0084**	**.0952**
Stddev	.0004	.6	.0075	.0016	.0015	.0001	.0003	.39	.0001	.0011
%RSD	132.6	.5107	1.129	2.177	.1565	1.253	6.393	.5431	1.577	1.122
#1	.0007	113.5	.6676	.0745	.9304	.0069	.0043	72.86	.0085	.0957
#2	.0001	112.6	.6702	.0763	.9281	.0068	.0046	72.23	.0084	.0960
#3	.0000	112.4	.6561	.0730	.9278	.0068	.0041	72.15	.0082	.0940

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1518**	**.8839**	**258.5**	**13.33**	**31.43**	**4.667**	**.0409**	**4.782**	**.1515**	**4.461**
Stddev	.0008	.0048	1.2	.05	.18	.024	.0006	.016	.0019	.050
%RSD	.5515	.5430	.4665	.4071	.5668	.5115	1.488	.3402	1.258	1.114
#1	.1524	.8862	259.9	13.40	31.57	4.694	.0412	4.794	.1521	4.480
#2	.1508	.8784	257.7	13.31	31.23	4.651	.0413	4.788	.1529	4.499
#3	.1522	.8871	257.9	13.29	31.49	4.655	.0402	4.763	.1493	4.405

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0255**	**.0030**	**6.367**	**.1729**	**.3409**	**7.078**	**-.0046**	**.2817**	**2.347**
Stddev	.0009	.0014	.082	.0016	.0019	.075	.0011	.0016	.028
%RSD	3.465	46.93	1.293	.9345	.5587	1.064	22.86	.5769	1.197
#1	.0264	.0014	6.404	.1739	.3427	7.047	-.0057	.2815	2.355
#2	.0254	.0037	6.424	.1738	.3411	7.024	-.0044	.2801	2.370
#3	.0247	.0038	6.273	.1711	.3389	7.164	-.0037	.2834	2.316

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**8785.7**	**42655.**	**6974.5**
Stddev	88.6	125.	18.9
%RSD	1.0088	.29281	.27069
#1	8740.6	42613.	6954.5
#2	8728.7	42796.	6992.0
#3	8887.8	42557.	6977.1

Sample Name: WG1186024-2,T,2 Acquired: 12/6/2018 20:03:44 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2462**	**24.06**	**.6136**	**.7409**	**1.885**	**.8237**	**-.0092**	**20.03**	**.8716**	**.7844**
Stddev	.0027	.27	.0042	.0077	.020	.0078	.0004	.17	.0098	.0076
%RSD	1.101	1.133	.6818	1.041	1.044	.9486	4.889	.8580	1.129	.9651
#1	.2461	23.92	.6169	.7482	1.878	.8200	-.0087	19.90	.8794	.7910
#2	.2435	24.37	.6150	.7418	1.907	.8327	-.0096	20.22	.8750	.7862
#3	.2489	23.88	.6089	.7328	1.870	.8185	-.0092	19.96	.8606	.7761

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5772**	**.7975**	**62.90**	**6.678**	**8.271**	**1.356**	**.7563**	**5.425**	**.6656**	**.9618**
Stddev	.0046	.0054	.62	.079	.058	.014	.0062	.058	.0069	.0103
%RSD	.8013	.6790	.9830	1.182	.7058	.9974	.8207	1.071	1.036	1.076
#1	.5785	.7996	62.54	6.612	8.204	1.352	.7615	5.411	.6714	.9707
#2	.5721	.7913	63.62	6.766	8.304	1.371	.7582	5.489	.6674	.9642
#3	.5811	.8015	62.55	6.657	8.306	1.345	.7494	5.375	.6580	.9504

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4186**	**.3253**	**3.385**	**.5975**	**.3805**	**1.184**	**.9884**	**.7168**	**.9057**
Stddev	.0032	.0043	.032	.0065	.0037	.008	.0063	.0052	.0099
%RSD	.7585	1.333	.9431	1.090	.9629	.7047	.6396	.7254	1.090
#1	.4211	.3300	3.412	.6027	.3788	1.186	.9933	.7189	.9138
#2	.4196	.3245	3.392	.5997	.3847	1.175	.9906	.7109	.9086
#3	.4150	.3215	3.350	.5902	.3780	1.191	.9813	.7207	.8947

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7660.7**	**36664.**	**5897.2**
Stddev	61.8	202.	45.7
%RSD	.80683	.55121	.77556
#1	7607.9	36579.	5946.2
#2	7645.5	36895.	5855.6
#3	7728.7	36519.	5889.9

Sample Name: WG1186024-3,T,2 Acquired: 12/6/2018 20:08:28 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2436**	**23.71**	**.6079**	**.7438**	**1.859**	**.8304**	**-.0088**	**19.76**	**.8612**	**.7835**
Stddev	.0044	.35	.0064	.0053	.026	.0129	.0008	.26	.0075	.0068
%RSD	1.807	1.465	1.058	.7121	1.413	1.548	9.346	1.312	.8670	.8737
#1	.2441	23.39	.6104	.7441	1.832	.8187	-.0086	19.55	.8635	.7858
#2	.2478	24.08	.6127	.7490	1.884	.8442	-.0080	20.05	.8673	.7890
#3	.2390	23.65	.6006	.7384	1.860	.8283	-.0096	19.68	.8529	.7759

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5868**	**.7982**	**61.40**	**6.547**	**8.360**	**1.327**	**.7613**	**5.433**	**.6725**	**.9537**
Stddev	.0128	.0160	.91	.086	.135	.022	.0060	.073	.0054	.0080
%RSD	2.183	2.008	1.486	1.306	1.610	1.671	.7836	1.340	.8013	.8388
#1	.5862	.7943	60.58	6.448	8.277	1.307	.7620	5.358	.6739	.9580
#2	.6000	.8159	62.38	6.604	8.515	1.351	.7669	5.503	.6771	.9587
#3	.5744	.7846	61.23	6.588	8.287	1.323	.7550	5.438	.6666	.9445

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4131**	**.3268**	**3.667**	**.5970**	**.3651**	**1.152**	**.9884**	**.7174**	**.9086**
Stddev	.0022	.0046	.033	.0046	.0049	.023	.0070	.0132	.0082
%RSD	.5348	1.403	.8996	.7772	1.332	2.016	.7117	1.841	.9046
#1	.4124	.3278	3.676	.5976	.3605	1.147	.9908	.7162	.9109
#2	.4156	.3309	3.694	.6013	.3702	1.177	.9939	.7312	.9154
#3	.4113	.3219	3.630	.5921	.3647	1.131	.9805	.7048	.8995

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7637.2**	**36379.**	**5749.8**
Stddev	67.1	525.	78.2
%RSD	.87865	1.4430	1.3597
#1	7603.5	36468.	5821.0
#2	7593.6	35816.	5666.1
#3	7714.5	36854.	5762.2

Sample Name: L1849000-01,T Acquired: 12/6/2018 20:13:14 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0022**	**175.2**	**.0677**	**.0061**	**.4944**	**.0063**	**.0042**	**12.06**	**.0048**	**.0761**
Stddev	.0003	1.2	.0016	.0008	.0042	.0000	.0007	.09	.0000	.0012
%RSD	11.79	.6638	2.316	13.73	.8447	.7516	16.67	.7217	.8710	1.539
#1	.0019	176.5	.0675	.0071	.4989	.0063	.0034	12.16	.0048	.0768
#2	.0024	174.3	.0693	.0056	.4906	.0063	.0048	12.00	.0049	.0766
#3	.0023	174.8	.0662	.0057	.4937	.0063	.0043	12.01	.0048	.0747

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1670**	**.1460**	**222.1**	**2.703**	**23.83**	**3.220**	**.0034**	**.3869**	**.1329**	**.4232**
Stddev	.0017	.0019	1.6	.029	.20	.020	.0006	.0056	.0021	.0082
%RSD	1.045	1.287	.7405	1.077	.8253	.6169	16.39	1.459	1.580	1.930
#1	.1679	.1466	223.8	2.723	23.98	3.241	.0040	.3901	.1339	.4267
#2	.1649	.1439	220.5	2.669	23.61	3.201	.0034	.3903	.1343	.4291
#3	.1681	.1475	222.0	2.715	23.91	3.217	.0029	.3804	.1305	.4139

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0146**	**.0030**	**6.108**	**.0141**	**.0854**	**6.593**	**-.0026**	**.3619**	**.5053**
Stddev	.0010	.0001	.113	.0006	.0004	.071	.0009	.0036	.0072
%RSD	6.888	2.604	1.844	4.094	.4260	1.078	34.23	.9881	1.427
#1	.0151	.0029	6.177	.0141	.0855	6.610	-.0032	.3628	.5099
#2	.0135	.0030	6.169	.0146	.0850	6.515	-.0016	.3580	.5090
#3	.0153	.0030	5.978	.0135	.0857	6.654	-.0029	.3649	.4970

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7987.9**	**38352.**	**6242.3**
Stddev	118.1	245.	27.3
%RSD	1.4785	.63804	.43730
#1	7912.4	38216.	6215.3
#2	7927.3	38635.	6269.9
#3	8124.0	38206.	6241.7

Sample Name: L1849016-01,T Acquired: 12/6/2018 20:18:02 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0005**	**97.21**	**.1134**	**.0126**	**.4878**	**.0060**	**.0020**	**64.27**	**.0045**	**.1271**
Stddev	.0006	1.07	.0013	.0005	.0051	.0001	.0007	.80	.0001	.0020
%RSD	127.3	1.100	1.178	4.281	1.046	1.231	35.52	1.240	2.199	1.538
#1	-.0011	96.69	.1149	.0130	.4846	.0060	.0013	64.10	.0046	.1282
#2	.0001	96.49	.1126	.0128	.4850	.0060	.0020	63.58	.0045	.1282
#3	-.0003	98.44	.1126	.0120	.4936	.0061	.0026	65.14	.0044	.1248

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1764**	**.3028**	**213.7**	**15.94**	**46.80**	**3.517**	**.0084**	**1.383**	**.1487**	**.1293**
Stddev	.0003	.0007	2.2	.17	.50	.039	.0003	.010	.0024	.0045
%RSD	.1809	.2320	1.034	1.048	1.063	1.104	3.162	.7024	1.592	3.504
#1	.1763	.3022	212.8	15.86	46.67	3.503	.0085	1.373	.1505	.1324
#2	.1762	.3036	212.1	15.82	46.38	3.488	.0085	1.386	.1496	.1313
#3	.1768	.3026	216.2	16.13	47.35	3.561	.0080	1.392	.1460	.1241

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0114**	**-.0039**	**6.436**	**.0088**	**.2169**	**5.304**	**-.0017**	**.4447**	**.5169**
Stddev	.0006	.0007	.104	.0007	.0017	.012	.0012	.0017	.0082
%RSD	5.556	18.31	1.616	7.517	.7948	.2245	70.09	.3871	1.577
#1	.0122	-.0038	6.490	.0095	.2161	5.294	-.0004	.4428	.5212
#2	.0110	-.0046	6.502	.0081	.2158	5.301	-.0027	.4452	.5219
#3	.0111	-.0032	6.316	.0089	.2189	5.317	-.0019	.4461	.5075

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**8217.8**	**39574.**	**6399.3**
Stddev	107.4	103.	66.5
%RSD	1.3064	.26146	1.0396
#1	8142.8	39693.	6430.6
#2	8169.9	39525.	6444.3
#3	8340.8	39505.	6322.8

Sample Name: L1849016-02,T Acquired: 12/6/2018 20:22:53 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**122.0**	**.0951**	**.0297**	**.6221**	**.0067**	**.0071**	**135.7**	**.0060**	**.1599**
Stddev	.0003	.6	.0020	.0010	.0036	.0001	.0004	.4	.0001	.0027
%RSD	69.85	.4591	2.132	3.281	.5716	.8289	6.301	.3280	1.782	1.682
#1	.0006	122.3	.0969	.0308	.6254	.0067	.0076	135.8	.0061	.1617
#2	.0005	122.4	.0954	.0288	.6227	.0067	.0067	136.0	.0061	.1613
#3	.0001	121.4	.0929	.0295	.6183	.0066	.0069	135.2	.0059	.1568

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2859**	**.4207**	**265.8**	**16.41**	**70.83**	**4.232**	**.0126**	**2.289**	**.2609**	**.2214**
Stddev	.0010	.0005	.9	.09	.11	.017	.0002	.020	.0036	.0057
%RSD	.3606	.1079	.3481	.5702	.1490	.4117	1.504	.8597	1.389	2.582
#1	.2850	.4211	266.2	16.44	70.71	4.233	.0129	2.308	.2633	.2241
#2	.2870	.4209	266.5	16.49	70.86	4.249	.0126	2.291	.2627	.2252
#3	.2857	.4202	264.8	16.31	70.92	4.214	.0125	2.269	.2567	.2148

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0165**	**-.0017**	**8.803**	**.0163**	**.3651**	**5.940**	**-.0035**	**.5785**	**.8057**
Stddev	.0014	.0001	.126	.0005	.0016	.012	.0004	.0007	.0116
%RSD	8.769	8.646	1.435	2.825	.4481	.1976	11.63	.1227	1.441
#1	.0176	-.0016	8.862	.0167	.3656	5.930	-.0032	.5780	.8127
#2	.0149	-.0016	8.890	.0158	.3665	5.953	-.0033	.5793	.8120
#3	.0171	-.0019	8.658	.0164	.3633	5.939	-.0039	.5782	.7923

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**8030.2**	**39011.**	**6370.1**
Stddev	109.0	52.	13.2
%RSD	1.3579	.13438	.20772
#1	7957.2	38997.	6359.3
#2	7977.9	38967.	6384.8
#3	8155.6	39069.	6366.2

Sample Name: L1848674-17,C Acquired: 12/6/2018 20:27:41 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0003**	**.0486**	**.0020**	**.0313**	**.0381**	**.0000**	**-.0002**	**48.36**	**.0007**	**.0029**
Stddev	.0005	.0101	.0002	.0006	.0009	.0000	.0007	.82	.0000	.0000
%RSD	141.2	20.76	11.20	2.069	2.386	61.89	306.7	1.700	5.653	.8482
#1	-.0003	.0509	.0018	.0317	.0387	.0001	-.0004	48.60	.0007	.0029
#2	-.0008	.0574	.0018	.0315	.0371	.0000	.0005	47.45	.0007	.0029
#3	.0001	.0376	.0022	.0305	.0386	.0000	-.0008	49.04	.0007	.0029

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0058**	**.0916**	**1.197**	**1.995**	**.2802**	**.0006**	**165.9**	**.0045**	**.0516**
Stddev	.0002	.0002	.0109	.015	.031	.0046	.0002	3.0	.0001	.0012
%RSD	268.5	3.098	11.85	1.248	1.553	1.656	42.29	1.795	2.347	2.353
#1	.0001	.0057	.1030	1.188	1.996	.2813	.0007	165.7	.0044	.0525
#2	.0003	.0060	.0814	1.189	1.964	.2751	.0007	163.0	.0045	.0520
#3	-.0001	.0057	.0904	1.214	2.025	.2841	.0003	168.9	.0045	.0502

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0022**	**.0002**	**.4495**	**.0003**	**.1469**	**.0075**	**.0005**	**.0004**	**.1483**
Stddev	.0014	.0016	.0140	.0008	.0025	.0007	.0002	.0001	.0032
%RSD	66.28	965.7	3.114	296.0	1.676	8.777	34.40	33.29	2.131
#1	.0030	.0019	.4611	.0003	.1478	.0081	.0006	.0003	.1504
#2	.0029	-.0001	.4535	.0010	.1441	.0078	.0006	.0006	.1499
#3	.0005	-.0013	.4340	-.0005	.1487	.0068	.0003	.0004	.1447

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7176.1**	**33805.**	**5426.5**
Stddev	147.7	47.	80.8
%RSD	2.0579	.13817	1.4893
#1	7072.8	33797.	5410.0
#2	7110.3	33762.	5514.3
#3	7345.3	33855.	5355.2

Sample Name: L1848674-18,C Acquired: 12/6/2018 20:32:47 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment: 10

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0003**	**.0694**	**.0009**	**.0296**	**.0359**	**.0001**	**-.0007**	**29.97**	**.0007**	**.0030**
Stddev	.0003	.0041	.0012	.0013	.0006	.0000	.0003	.41	.0000	.0002
%RSD	105.9	5.974	124.3	4.286	1.594	28.81	42.84	1.371	1.110	7.061
#1	-.0001	.0646	.0002	.0306	.0366	.0001	-.0004	30.44	.0007	.0032
#2	-.0007	.0718	.0003	.0301	.0355	.0001	-.0009	29.72	.0007	.0029
#3	-.0002	.0717	.0023	.0282	.0356	.0001	-.0009	29.74	.0007	.0028

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**.0044**	**.2277**	**1.221**	**1.787**	**.2741**	**.0004**	**163.1**	**.0041**	**.0816**
Stddev	.0002	.0002	.0008	.029	.021	.0037	.0001	2.6	.0001	.0001
%RSD	48.18	5.046	.3677	2.335	1.147	1.356	20.68	1.585	3.548	.1382
#1	.0003	.0044	.2280	1.254	1.811	.2783	.0004	165.5	.0041	.0815
#2	.0007	.0047	.2282	1.201	1.778	.2727	.0005	163.5	.0042	.0818
#3	.0003	.0042	.2267	1.208	1.773	.2713	.0003	160.3	.0039	.0816

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0022**	**.0005**	**.4537**	**.0013**	**.0915**	**.0021**	**-.0006**	**.0003**	**.1716**
Stddev	.0008	.0018	.0125	.0003	.0016	.0001	.0002	.0001	.0036
%RSD	37.15	355.6	2.748	22.67	1.774	6.230	43.64	56.38	2.097
#1	.0023	-.0009	.4630	.0012	.0933	.0022	-.0007	.0001	.1737
#2	.0030	.0025	.4587	.0016	.0908	.0020	-.0003	.0002	.1737
#3	.0013	-.0001	.4396	.0010	.0903	.0020	-.0007	.0004	.1675

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7204.9**	**33565.**	**5397.8**
Stddev	143.4	405.	48.5
%RSD	1.9908	1.2076	.89855
#1	7103.6	33273.	5342.1
#2	7142.1	33395.	5420.6
#3	7369.0	34028.	5430.7

Sample Name: CCV Acquired: 12/6/2018 20:37:52 Type: QC
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4887**	**.5476**	**.5012**	**.4977**	**.5115**	**.4871**	**-.0027**	**.5060**	**.4963**	**.4979**
Stddev	.0089	.0044	.0059	.0059	.0083	.0085	.0001	.0088	.0068	.0063
%RSD	1.815	.7963	1.178	1.189	1.617	1.749	4.625	1.736	1.368	1.262
#1	.4792	.5527	.5049	.5023	.5063	.4821	-.0026	.5011	.5016	.5024
#2	.4967	.5449	.5042	.4997	.5210	.4969	-.0027	.5161	.4986	.5004
#3	.4904	.5454	.4944	.4910	.5071	.4822	-.0028	.5007	.4886	.4907
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4918**	**.4894**	**.5178**	**4.751**	**.5184**	**.5120**	**.4942**	**9.736**	**.4944**	**.5123**
Stddev	.0085	.0073	.0112	.071	.0116	.0083	.0057	.149	.0063	.0061
%RSD	1.721	1.496	2.163	1.488	2.239	1.625	1.157	1.531	1.282	1.183
#1	.4830	.4817	.5073	4.712	.5113	.5071	.4985	9.644	.4990	.5172
#2	.4999	.4962	.5296	4.833	.5318	.5216	.4964	9.908	.4971	.5142
#3	.4926	.4903	.5165	4.710	.5122	.5073	.4877	9.655	.4872	.5055
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5009**	**.4981**	**5.106**	**.4902**	**.4913**	**.4854**	**.4950**	**.5048**	**.4937**
Stddev	.0062	.0066	.066	.0058	.0077	.0087	.0070	.0095	.0066
%RSD	1.244	1.321	1.297	1.192	1.576	1.782	1.424	1.883	1.344
#1	.5043	.5021	5.156	.4936	.4867	.4762	.4990	.4948	.4987
#2	.5047	.5016	5.131	.4935	.5002	.4933	.4991	.5137	.4963
#3	.4937	.4905	5.031	.4835	.4869	.4869	.4869	.5058	.4862
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7553.2**	**35780.**	**5518.5**
Stddev	99.1	453.	72.0
%RSD	1.3117	1.2666	1.3047
#1	7476.1	36267.	5578.6
#2	7518.5	35370.	5438.7
#3	7664.9	35703.	5538.2

Sample Name: CCB Acquired: 12/6/2018 20:42:42 Type: QC
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**.0108**	**-.0001**	**.0004**	**.0000**	**.0002**	**.0006**	**.0174**	**.0002**	**.0002**
Stddev	.0002	.0014	.0004	.0004	.0003	.0001	.0006	.0041	.0000	.0002
%RSD	199.6	12.86	419.5	106.1	585.9	25.21	103.3	23.35	21.18	101.9
#1	-.0002	.0093	-.0005	.0006	-.0001	.0002	-.0001	.0130	.0003	.0003
#2	.0001	.0121	-.0001	.0007	.0003	.0002	.0007	.0182	.0002	-.0000
#3	-.0002	.0109	.0003	-.0001	-.0001	.0003	.0011	.0210	.0002	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**-.0000**	**.0060**	**-.0014**	**-.0006**	**-.0003**	**.0007**	**.0239**	**.0001**	**.0003**
Stddev	.0004	.0002	.0035	.0069	.0021	.0002	.0003	.0061	.0001	.0004
%RSD	145.9	508.6	58.58	498.5	354.4	82.15	46.93	25.64	58.39	166.3
#1	.0006	.0001	.0030	-.0047	-.0029	-.0005	.0011	.0176	.0002	-.0002
#2	.0004	-.0003	.0052	.0066	-.0002	-.0001	.0005	.0242	.0001	.0007
#3	-.0002	.0000	.0099	-.0060	.0013	-.0001	.0005	.0298	.0000	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0009**	**-.0011**	**.0084**	**.0012**	**.0002**	**.0008**	**-.0004**	**.0001**	**.0003**
Stddev	.0006	.0010	.0012	.0006	.0002	.0002	.0006	.0001	.0000
%RSD	65.30	85.23	14.84	50.13	76.52	29.15	160.8	202.1	17.94
#1	.0016	-.0015	.0095	.0016	.0001	.0010	-.0002	-.0000	.0002
#2	.0005	-.0000	.0086	.0015	.0004	.0006	.0001	.0000	.0003
#3	.0006	-.0019	.0070	.0005	.0001	.0010	-.0011	.0002	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7681.8**	**35383.**	**5487.5**
Stddev	290.4	727.	90.8
%RSD	3.7799	2.0547	1.6553
#1	7515.4	34553.	5383.5
#2	7512.9	35686.	5527.9
#3	8017.1	35909.	5551.2

Sample Name: L1849141-02,T Acquired: 12/6/2018 20:47:47 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**183.0**	**.1155**	**.0184**	**.6753**	**.0070**	**.0211**	**47.85**	**.0069**	**.1770**
Stddev	.0002	1.4	.0017	.0006	.0062	.0001	.0004	.31	.0001	.0016
%RSD	46.32	.7725	1.441	3.063	.9163	1.799	1.786	.6514	2.058	.9196
#1	.0006	181.4	.1172	.0189	.6689	.0070	.0208	47.49	.0068	.1776
#2	.0003	183.9	.1156	.0178	.6812	.0072	.0215	48.03	.0070	.1783
#3	.0007	183.7	.1139	.0185	.6759	.0069	.0210	48.03	.0067	.1752

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2911**	**.4561**	**340.1**	**16.67**	**63.24**	**8.363**	**.0046**	**4.191**	**.2602**	**.8055**
Stddev	.0035	.0036	2.4	.16	.24	.061	.0002	.042	.0027	.0107
%RSD	1.188	.7801	.6926	.9410	.3724	.7293	3.435	1.004	1.045	1.328
#1	.2930	.4561	337.4	16.49	63.10	8.293	.0044	4.147	.2606	.8088
#2	.2933	.4597	341.3	16.78	63.51	8.401	.0045	4.230	.2627	.8141
#3	.2871	.4526	341.6	16.73	63.10	8.396	.0047	4.198	.2573	.7935

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0204**	**-.0026**	**5.699**	**.0253**	**.2396**	**6.824**	**-.0038**	**.5328**	**1.091**
Stddev	.0010	.0025	.061	.0010	.0022	.067	.0007	.0055	.011
%RSD	4.896	96.74	1.077	4.084	.9206	.9778	19.53	1.034	1.013
#1	.0198	-.0043	5.721	.0261	.2371	6.885	-.0045	.5343	1.094
#2	.0215	-.0038	5.747	.0257	.2413	6.834	-.0030	.5373	1.101
#3	.0198	.0003	5.630	.0241	.2404	6.753	-.0040	.5266	1.079

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**8220.0**	**39736.**	**6514.5**
Stddev	81.7	309.	22.4
%RSD	.99399	.77640	.34366
#1	8194.5	39551.	6535.5
#2	8154.0	39564.	6516.9
#3	8311.4	40092.	6491.0

Sample Name: L1849141-04,T Acquired: 12/6/2018 20:52:43 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0003**	**213.7**	**.0999**	**.0128**	**.7570**	**.0080**	**.0137**	**57.96**	**.0068**	**.2062**
Stddev	.0002	.3	.0016	.0005	.0024	.0001	.0006	.22	.0001	.0018
%RSD	72.46	.1518	1.620	3.766	.3114	1.048	4.667	.3752	.9878	.8680
#1	-.0002	213.7	.1018	.0127	.7550	.0081	.0132	57.99	.0069	.2074
#2	-.0006	214.1	.0987	.0133	.7596	.0081	.0135	58.16	.0068	.2070
#3	-.0002	213.4	.0993	.0124	.7565	.0079	.0144	57.72	.0067	.2041

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3426**	**.3395**	**393.1**	**30.85**	**77.69**	**8.113**	**.0005**	**10.92**	**.3087**	**.1419**
Stddev	.0024	.0015	3.3	.03	.17	.025	.0002	.03	.0025	.0023
%RSD	.7112	.4518	.8452	.1048	.2149	.3107	31.71	.2635	.8022	1.631
#1	.3453	.3412	393.5	30.82	77.74	8.121	.0006	10.89	.3106	.1422
#2	.3417	.3391	396.2	30.88	77.83	8.133	.0006	10.94	.3096	.1440
#3	.3407	.3382	389.6	30.86	77.51	8.085	.0003	10.92	.3059	.1394

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0221**	**-.0068**	**4.851**	**.0114**	**.3078**	**9.349**	**-.0058**	**.6095**	**.7796**
Stddev	.0015	.0014	.050	.0013	.0001	.055	.0008	.0040	.0066
%RSD	6.813	20.22	1.022	11.40	.0387	.5898	13.41	.6519	.8517
#1	.0218	-.0082	4.880	.0109	.3077	9.404	-.0054	.6139	.7844
#2	.0207	-.0055	4.879	.0129	.3079	9.349	-.0067	.6062	.7824
#3	.0237	-.0067	4.794	.0104	.3079	9.294	-.0053	.6085	.7720

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**8357.0**	**40364.**	**6573.1**
Stddev	68.7	259.	13.7
%RSD	.82193	.64126	.20899
#1	8314.9	40066.	6580.6
#2	8319.8	40533.	6557.2
#3	8436.3	40493.	6581.3

Sample Name: L1849141-06,T Acquired: 12/6/2018 20:57:49 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006**	**183.7**	**.1322**	**.0102**	**.7924**	**.0080**	**.0171**	**29.18**	**.0083**	**.1879**
Stddev	.0003	1.2	.0030	.0005	.0042	.0001	.0002	.16	.0001	.0025
%RSD	43.16	.6492	2.232	4.768	.5330	1.300	1.391	.5603	1.099	1.337
#1	.0010	185.0	.1337	.0098	.7972	.0080	.0169	29.34	.0084	.1898
#2	.0005	182.9	.1342	.0102	.7896	.0078	.0171	29.02	.0083	.1889
#3	.0005	183.0	.1288	.0108	.7903	.0080	.0174	29.18	.0082	.1851

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2866**	**.5851**	**314.7**	**17.42**	**59.61**	**6.135**	**.0038**	**1.255**	**.2607**	**1.129**
Stddev	.0010	.0012	1.9	.11	.23	.040	.0002	.000	.0029	.014
%RSD	.3572	.2072	.6142	.6595	.3941	.6525	4.102	.0218	1.117	1.249
#1	.2862	.5862	316.7	17.55	59.53	6.180	.0040	1.255	.2630	1.138
#2	.2858	.5838	312.9	17.38	59.42	6.103	.0038	1.255	.2618	1.136
#3	.2877	.5854	314.3	17.33	59.88	6.122	.0037	1.255	.2574	1.113

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0211**	**-.0013**	**5.659**	**.0293**	**.1915**	**7.890**	**-.0062**	**.5576**	**1.350**
Stddev	.0005	.0014	.051	.0008	.0014	.052	.0006	.0013	.017
%RSD	2.242	105.9	.9100	2.802	.7106	.6637	9.744	.2271	1.263
#1	.0211	-.0000	5.701	.0296	.1930	7.851	-.0057	.5578	1.365
#2	.0216	-.0027	5.675	.0283	.1910	7.871	-.0060	.5562	1.353
#3	.0207	-.0011	5.602	.0299	.1904	7.950	-.0068	.5587	1.331

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**8230.1**	**39527.**	**6401.8**
Stddev	87.2	54.	17.4
%RSD	1.0598	.13777	.27226
#1	8169.2	39571.	6393.5
#2	8191.0	39544.	6421.8
#3	8330.0	39466.	6390.0

Sample Name: L1849141-08,T Acquired: 12/6/2018 21:02:46 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0004**	**149.0**	**.1069**	**.0094**	**.5663**	**.0069**	**.0080**	**91.78**	**.0046**	**.1262**
Stddev	.0001	1.3	.0023	.0004	.0049	.0000	.0005	.79	.0001	.0011
%RSD	32.55	.8668	2.198	4.790	.8609	.2976	6.803	.8608	1.866	.8352
#1	-.0005	150.5	.1094	.0089	.5718	.0070	.0086	92.65	.0047	.1271
#2	-.0005	148.7	.1067	.0094	.5644	.0069	.0077	91.61	.0046	.1266
#3	-.0003	147.9	.1047	.0098	.5627	.0069	.0077	91.10	.0045	.1251

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2842**	**.2947**	**253.2**	**26.79**	**94.78**	**4.353**	**.0001**	**1.893**	**.2158**	**.3076**
Stddev	.0026	.0028	2.3	.25	.87	.038	.0002	.020	.0022	.0041
%RSD	.9297	.9509	.9194	.9390	.9155	.8813	373.0	1.069	1.042	1.329
#1	.2871	.2979	255.7	27.07	95.66	4.395	.0002	1.917	.2176	.3103
#2	.2834	.2935	252.7	26.67	94.76	4.342	.0002	1.883	.2164	.3095
#3	.2820	.2928	251.2	26.61	93.93	4.321	-.0002	1.880	.2133	.3029

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0132**	**-.0040**	**4.853**	**.0133**	**.1898**	**5.973**	**-.0029**	**.4092**	**.6769**
Stddev	.0006	.0027	.048	.0001	.0020	.047	.0006	.0037	.0075
%RSD	4.350	69.39	.9783	.5151	1.030	.7941	19.43	.9020	1.115
#1	.0128	-.0057	4.896	.0133	.1920	6.026	-.0029	.4132	.6818
#2	.0138	-.0053	4.861	.0133	.1885	5.958	-.0024	.4084	.6807
#3	.0129	-.0008	4.802	.0134	.1889	5.935	-.0035	.4060	.6682

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7903.9**	**38029.**	**6060.2**
Stddev	64.0	266.	33.9
%RSD	.80975	.70049	.55867
#1	7856.6	37775.	6024.5
#2	7878.3	38007.	6064.3
#3	7976.7	38306.	6091.8

Sample Name: L1849141-10,T Acquired: 12/6/2018 21:07:35 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**243.5**	**.1384**	**.0408**	**1.199**	**.0104**	**.0097**	**45.45**	**.0067**	**.1826**
Stddev	.0002	1.9	.0009	.0004	.011	.0001	.0009	.39	.0001	.0017
%RSD	92.16	.7912	.6304	1.021	.9168	.6651	9.506	.8638	1.596	.9118
#1	.0000	245.3	.1393	.0404	1.210	.0104	.0107	45.90	.0066	.1835
#2	.0002	241.5	.1376	.0412	1.188	.0103	.0095	45.15	.0068	.1836
#3	.0004	243.5	.1384	.0408	1.199	.0104	.0089	45.30	.0066	.1806

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4632**	**.4848**	**360.7**	**67.92**	**92.09**	**4.193**	**.0012**	**3.715**	**.3594**	**.4809**
Stddev	.0033	.0032	2.9	.58	.87	.032	.0002	.034	.0034	.0049
%RSD	.7209	.6570	.8123	.8525	.9406	.7606	19.14	.9231	.9516	1.025
#1	.4647	.4858	363.9	68.47	93.01	4.227	.0012	3.752	.3619	.4835
#2	.4594	.4812	358.1	67.32	91.29	4.164	.0015	3.685	.3607	.4840
#3	.4656	.4873	360.2	67.97	91.96	4.188	.0011	3.707	.3555	.4752

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0240**	**-.0046**	**7.508**	**.0315**	**.3577**	**13.88**	**-.0032**	**.6250**	**1.314**
Stddev	.0012	.0005	.071	.0001	.0028	.09	.0008	.0035	.014
%RSD	5.032	11.81	.9526	.4484	.7743	.6154	25.12	.5641	1.094
#1	.0244	-.0040	7.551	.0316	.3600	13.95	-.0038	.6279	1.322
#2	.0249	-.0049	7.547	.0314	.3546	13.78	-.0034	.6211	1.322
#3	.0226	-.0050	7.425	.0316	.3585	13.91	-.0023	.6260	1.297

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**8102.3**	**39210.**	**6275.0**
Stddev	62.1	135.	48.1
%RSD	.76629	.34343	.76671
#1	8056.7	39135.	6220.1
#2	8077.3	39365.	6309.8
#3	8173.0	39128.	6295.2

Sample Name: L1849141-12,T Acquired: 12/6/2018 21:12:31 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0007**	**162.1**	**.1310**	**.0183**	**.7609**	**.0069**	**.0182**	**48.51**	**.0077**	**.1751**
Stddev	.0002	1.0	.0020	.0002	.0064	.0000	.0011	.23	.0001	.0017
%RSD	26.72	.5942	1.515	1.140	.8424	.4553	6.180	.4752	1.069	.9937
#1	.0006	163.1	.1327	.0184	.7683	.0070	.0174	48.68	.0078	.1759
#2	.0009	161.8	.1316	.0181	.7572	.0069	.0194	48.61	.0077	.1762
#3	.0005	161.3	.1288	.0185	.7572	.0069	.0177	48.25	.0076	.1731

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2906**	**.9582**	**364.4**	**17.65**	**60.88**	**3.873**	**.0061**	**2.012**	**.2527**	**.4852**
Stddev	.0011	.0046	1.6	.11	.24	.023	.0003	.013	.0030	.0069
%RSD	.3772	.4776	.4359	.6378	.3999	.5901	4.756	.6347	1.203	1.412
#1	.2896	.9532	365.9	17.78	60.92	3.896	.0058	2.025	.2537	.4893
#2	.2918	.9622	364.6	17.56	61.10	3.871	.0063	2.010	.2551	.4891
#3	.2903	.9592	362.7	17.62	60.62	3.851	.0061	2.000	.2493	.4773

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0301**	**-.0009**	**6.047**	**.0285**	**.3482**	**6.777**	**-.0031**	**.4564**	**1.116**
Stddev	.0009	.0007	.076	.0007	.0023	.047	.0014	.0022	.013
%RSD	2.864	81.90	1.255	2.333	.6548	.6950	47.08	.4725	1.136
#1	.0310	-.0007	6.082	.0292	.3508	6.725	-.0033	.4546	1.121
#2	.0292	-.0016	6.100	.0278	.3467	6.816	-.0015	.4587	1.125
#3	.0302	-.0002	5.960	.0285	.3471	6.791	-.0043	.4558	1.101

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**8328.0**	**40755.**	**6408.6**
Stddev	84.4	147.	19.6
%RSD	1.0140	.36080	.30525
#1	8286.1	40898.	6404.9
#2	8272.7	40604.	6391.2
#3	8425.2	40763.	6429.8

Sample Name: L1849141-14,T Acquired: 12/6/2018 21:17:28 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006**	**183.8**	**.1492**	**.0173**	**.6548**	**.0075**	**.0142**	**35.06**	**.0056**	**.2124**
Stddev	.0003	1.8	.0028	.0009	.0074	.0001	.0005	.37	.0000	.0021
%RSD	45.44	.9896	1.890	5.275	1.123	1.503	3.347	1.057	.3179	.9885
#1	.0003	185.3	.1506	.0164	.6617	.0075	.0137	35.30	.0056	.2138
#2	.0009	181.8	.1511	.0183	.6470	.0073	.0145	34.63	.0057	.2135
#3	.0007	184.4	.1460	.0173	.6557	.0075	.0144	35.25	.0056	.2100

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2826**	**.6279**	**292.7**	**16.59**	**59.16**	**3.067**	**.0043**	**3.203**	**.2613**	**.3229**
Stddev	.0015	.0028	3.2	.16	.49	.031	.0003	.033	.0032	.0071
%RSD	.5147	.4431	1.079	.9447	.8344	.9962	6.977	1.037	1.230	2.190
#1	.2824	.6253	295.1	16.73	59.43	3.085	.0046	3.233	.2634	.3285
#2	.2813	.6275	289.1	16.42	58.59	3.032	.0043	3.168	.2629	.3253
#3	.2842	.6308	293.8	16.63	59.46	3.085	.0040	3.208	.2576	.3150

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0207**	**-.0026**	**9.053**	**.0193**	**.3047**	**8.337**	**-.0031**	**.4762**	**.8384**
Stddev	.0004	.0018	.089	.0010	.0031	.024	.0001	.0026	.0095
%RSD	1.709	70.23	.9815	5.401	1.011	.2901	3.919	.5509	1.137
#1	.0204	-.0046	9.112	.0193	.3070	8.321	-.0030	.4751	.8457
#2	.0207	-.0012	9.097	.0203	.3012	8.326	-.0031	.4742	.8419
#3	.0211	-.0019	8.951	.0182	.3058	8.365	-.0033	.4791	.8277

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**8200.9**	**39510.**	**6233.0**
Stddev	79.0	103.	48.2
%RSD	.96342	.25949	.77277
#1	8151.3	39538.	6201.4
#2	8159.3	39596.	6288.5
#3	8292.0	39396.	6209.2

Sample Name: L1849141-16,T Acquired: 12/6/2018 21:22:26 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**186.7**	**.0710**	**.0104**	**.5112**	**.0072**	**.0147**	**25.25**	**.0047**	**.2098**
Stddev	.0002	2.5	.0014	.0005	.0060	.0001	.0007	.31	.0001	.0017
%RSD	213.1	1.349	2.037	5.182	1.182	1.129	4.719	1.224	2.088	.8305
#1	.0003	189.6	.0726	.0111	.5181	.0072	.0155	25.60	.0047	.2111
#2	-.0001	185.6	.0705	.0102	.5079	.0072	.0143	25.14	.0048	.2105
#3	.0001	184.9	.0698	.0100	.5074	.0071	.0143	25.01	.0046	.2078

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2520**	**.3480**	**303.2**	**12.53**	**56.64**	**2.589**	**.0021**	**9.804**	**.2124**	**.1925**
Stddev	.0020	.0016	3.6	.16	.26	.035	.0002	.107	.0031	.0034
%RSD	.7918	.4583	1.197	1.277	.4537	1.361	7.452	1.087	1.468	1.777
#1	.2502	.3464	307.4	12.72	56.82	2.629	.0023	9.927	.2150	.1941
#2	.2541	.3496	301.6	12.46	56.74	2.575	.0020	9.745	.2134	.1948
#3	.2516	.3481	300.7	12.42	56.34	2.562	.0021	9.740	.2089	.1886

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0185**	**-.0059**	**6.632**	**.0163**	**.1328**	**9.363**	**-.0018**	**.5261**	**.6360**
Stddev	.0013	.0010	.083	.0008	.0014	.075	.0015	.0026	.0057
%RSD	6.996	16.30	1.247	4.642	1.019	.7980	83.83	.4967	.9023
#1	.0181	-.0060	6.686	.0171	.1343	9.305	-.0021	.5231	.6410
#2	.0200	-.0068	6.674	.0163	.1322	9.448	-.0002	.5280	.6373
#3	.0175	-.0049	6.537	.0156	.1318	9.338	-.0032	.5271	.6298

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**8292.3**	**39911.**	**6258.5**
Stddev	69.9	215.	34.2
%RSD	.84330	.53905	.54651
#1	8230.2	40142.	6224.1
#2	8278.7	39717.	6258.9
#3	8368.1	39875.	6292.6

Sample Name: L1849141-18,T Acquired: 12/6/2018 21:27:22 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006**	**173.4**	**.3812**	**.0159**	**.7105**	**.0067**	**.0189**	**121.7**	**.0075**	**.1833**
Stddev	.0003	1.8	.0049	.0003	.0068	.0001	.0010	1.3	.0000	.0013
%RSD	45.39	1.051	1.277	1.642	.9587	1.624	5.100	1.032	.5806	.7035
#1	.0006	175.2	.3810	.0160	.7180	.0068	.0200	122.9	.0075	.1839
#2	.0008	173.4	.3862	.0161	.7087	.0067	.0186	121.6	.0076	.1842
#3	.0003	171.5	.3764	.0156	.7047	.0066	.0181	120.4	.0075	.1819

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4622**	**.4890**	**381.9**	**24.14**	**90.26**	**7.640**	**.0044**	**2.874**	**.3185**	**.3632**
Stddev	.0027	.0023	3.9	.23	.87	.079	.0002	.026	.0020	.0024
%RSD	.5937	.4719	1.024	.9507	.9589	1.039	5.170	.9052	.6141	.6681
#1	.4634	.4885	385.7	24.36	91.18	7.722	.0041	2.903	.3192	.3636
#2	.4590	.4870	382.2	24.17	90.13	7.634	.0046	2.867	.3199	.3654
#3	.4641	.4916	377.9	23.90	89.46	7.564	.0045	2.853	.3162	.3606

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0354**	**-.0043**	**5.739**	**.0370**	**.5308**	**8.139**	**-.0052**	**.5322**	**1.016**
Stddev	.0016	.0025	.041	.0014	.0050	.069	.0016	.0025	.008
%RSD	4.431	58.04	.7191	3.718	.9418	.8475	30.17	.4737	.7630
#1	.0346	-.0042	5.733	.0381	.5357	8.138	-.0063	.5321	1.020
#2	.0372	-.0069	5.783	.0374	.5309	8.070	-.0034	.5297	1.020
#3	.0344	-.0019	5.701	.0354	.5257	8.208	-.0058	.5348	1.007

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**8046.8**	**39292.**	**6218.7**
Stddev	57.3	221.	59.4
%RSD	.71172	.56257	.95595
#1	8040.3	39317.	6156.5
#2	7993.1	39500.	6224.7
#3	8107.1	39060.	6275.0

Sample Name: L1848674-19,C Acquired: 12/6/2018 21:32:16 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0014**	**.1232**	**.0015**	**.0115**	**.0346**	**.0001**	**-.0010**	**15.60**	**.0003**	**.0028**
Stddev	.0003	.0089	.0003	.0009	.0003	.0000	.0006	.09	.0000	.0001
%RSD	18.28	7.243	16.66	8.270	1.004	55.74	59.51	.5947	15.23	5.008
#1	-.0015	.1150	.0012	.0123	.0342	.0001	-.0015	15.64	.0003	.0027
#2	-.0016	.1220	.0016	.0117	.0347	.0000	-.0004	15.49	.0003	.0029
#3	-.0011	.1327	.0017	.0104	.0349	.0001	-.0010	15.67	.0003	.0027

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0014**	**.0055**	**.1845**	**1.185**	**.4958**	**.2487**	**-.0004**	**165.2**	**.0027**	**.0286**
Stddev	.0004	.0001	.0174	.010	.0059	.0017	.0001	.8	.0001	.0012
%RSD	26.19	2.382	9.439	.8555	1.188	.6708	35.91	.4762	3.179	4.292
#1	.0012	.0054	.1726	1.186	.4923	.2481	-.0002	166.0	.0028	.0288
#2	.0012	.0056	.1763	1.194	.4924	.2475	-.0005	165.3	.0028	.0296
#3	.0018	.0056	.2044	1.174	.5026	.2506	-.0005	164.4	.0027	.0272

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0012**	**-.0005**	**.4710**	**-.0004**	**.0400**	**.0124**	**-.0002**	**.0002**	**.0671**
Stddev	.0002	.0010	.0178	.0005	.0004	.0005	.0008	.0001	.0021
%RSD	14.59	209.1	3.770	126.6	1.085	4.209	525.0	48.66	3.148
#1	.0010	-.0012	.4803	-.0009	.0399	.0128	-.0010	.0004	.0680
#2	.0013	-.0008	.4821	-.0002	.0395	.0126	-.0001	.0002	.0686
#3	.0014	.0006	.4505	-.0000	.0404	.0118	.0007	.0002	.0647

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7203.7**	**33833.**	**5192.8**
Stddev	196.9	72.	25.5
%RSD	2.7340	.21238	.49156
#1	7104.6	33766.	5204.7
#2	7076.0	33823.	5210.2
#3	7430.6	33909.	5163.5

Sample Name: CCV Acquired: 12/6/2018 21:37:18 Type: QC
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4927**	**.5410**	**.5000**	**.4990**	**.5130**	**.4805**	**-.0029**	**.4944**	**.4955**	**.4987**
Stddev	.0069	.0113	.0038	.0040	.0084	.0081	.0011	.0038	.0027	.0035
%RSD	1.408	2.090	.7690	.7964	1.635	1.684	38.87	.7662	.5426	.7026
#1	.4874	.5280	.4997	.5001	.5051	.4728	-.0042	.4903	.4964	.5000
#2	.4902	.5461	.5040	.5023	.5218	.4890	-.0026	.4978	.4976	.5014
#3	.5006	.5489	.4964	.4946	.5120	.4798	-.0020	.4949	.4925	.4947
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4922**	**.4928**	**.5276**	**4.810**	**.5238**	**.5189**	**.4953**	**9.782**	**.4940**	**.5115**
Stddev	.0068	.0074	.0099	.114	.0081	.0093	.0033	.150	.0036	.0034
%RSD	1.386	1.497	1.877	2.368	1.542	1.786	.6627	1.536	.7261	.6684
#1	.4867	.4878	.5180	4.685	.5150	.5095	.4952	9.632	.4950	.5141
#2	.4900	.4894	.5378	4.908	.5309	.5281	.4986	9.933	.4969	.5128
#3	.4998	.5013	.5270	4.837	.5255	.5192	.4921	9.780	.4900	.5077
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5011**	**.4980**	**5.115**	**.4920**	**.4930**	**.4920**	**.4945**	**.5084**	**.4927**
Stddev	.0021	.0043	.036	.0031	.0086	.0068	.0021	.0079	.0026
%RSD	.4176	.8628	.7140	.6304	1.741	1.384	.4322	1.555	.5353
#1	.5022	.4984	5.124	.4916	.4843	.4869	.4956	.5022	.4937
#2	.5024	.5020	5.147	.4952	.5015	.4893	.4960	.5058	.4947
#3	.4987	.4935	5.075	.4890	.4933	.4997	.4921	.5173	.4898
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7499.3**	**35570.**	**5378.5**
Stddev	56.3	383.	73.9
%RSD	.75025	1.0758	1.3739
#1	7474.9	35795.	5452.2
#2	7459.3	35786.	5304.4
#3	7563.6	35128.	5378.8

Sample Name: CCB Acquired: 12/6/2018 21:42:08 Type: QC
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0160**	**-.0008**	**.0003**	**.0003**	**.0001**	**.0002**	**.0146**	**.0002**	**.0002**
Stddev	.0002	.0040	.0009	.0004	.0004	.0000	.0005	.0104	.0000	.0001
%RSD	170.0	24.75	108.7	124.5	131.8	49.53	222.1	71.50	14.76	49.85
#1	.0002	.0166	.0002	.0005	.0004	.0001	-.0001	.0126	.0002	.0001
#2	-.0001	.0118	-.0012	.0007	.0007	.0001	.0000	.0053	.0002	.0003
#3	.0003	.0196	-.0015	-.0001	-.0001	.0002	.0008	.0258	.0002	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0002**	**.0112**	**.0101**	**.0032**	**.0001**	**.0004**	**.0148**	**.0003**	**.0005**
Stddev	.0001	.0002	.0009	.0179	.0038	.0002	.0002	.0031	.0001	.0006
%RSD	44.17	79.58	8.398	177.9	115.7	371.6	56.90	20.99	32.19	108.7
#1	.0001	.0000	.0111	-.0042	.0049	.0003	.0006	.0179	.0003	-.0001
#2	.0003	.0003	.0122	.0301	.0059	-.0001	.0003	.0116	.0002	.0008
#3	.0004	.0002	.0103	.0042	-.0011	.0000	.0002	.0150	.0004	.0009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**-.0006**	**.0056**	**.0013**	**.0002**	**.0014**	**.0003**	**.0000**	**.0004**
Stddev	.0003	.0007	.0019	.0005	.0001	.0003	.0004	.0002	.0001
%RSD	52.97	119.6	34.03	41.40	47.31	21.07	130.8	635.4	24.43
#1	.0005	.0002	.0064	.0018	.0002	.0011	.0003	-.0002	.0005
#2	.0008	-.0010	.0069	.0011	.0002	.0017	-.0001	.0001	.0003
#3	.0002	-.0008	.0034	.0008	.0004	.0015	.0007	.0002	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7661.4**	**35663.**	**5364.2**
Stddev	247.4	323.	60.2
%RSD	3.2295	.90683	1.1225
#1	7513.9	35850.	5317.6
#2	7523.3	35289.	5432.2
#3	7947.1	35849.	5342.7

Sample Name: L1848674-20,C Acquired: 12/6/2018 21:47:13 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment: 10

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**.0769**	**.0013**	**.0090**	**.0488**	**.0001**	**.0000**	**35.58**	**.0007**	**.0030**
Stddev	.0005	.0041	.0004	.0000	.0009	.0001	.0007	.64	.0001	.0001
%RSD	818.2	5.324	27.36	.5145	1.899	61.24	5930.	1.806	7.105	2.242
#1	-.0007	.0725	.0018	.0090	.0499	.0002	-.0006	36.32	.0008	.0031
#2	.0002	.0806	.0011	.0090	.0485	.0001	-.0001	35.23	.0007	.0031
#3	.0003	.0776	.0011	.0091	.0481	.0001	.0008	35.19	.0007	.0030

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0139**	**.5690**	**1.107**	**.7934**	**.3557**	**-.0003**	**166.5**	**.0039**	**.0341**
Stddev	.0002	.0002	.0138	.026	.0101	.0068	.0002	1.1	.0003	.0006
%RSD	109.1	1.653	2.426	2.329	1.278	1.907	65.09	.6756	7.073	1.880
#1	.0000	.0141	.5846	1.122	.8028	.3635	-.0001	166.7	.0037	.0345
#2	.0004	.0137	.5583	1.077	.7947	.3513	-.0003	165.3	.0042	.0344
#3	.0001	.0140	.5641	1.122	.7826	.3522	-.0004	167.5	.0039	.0334

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008**	**.0012**	**.8052**	**.0005**	**.1065**	**.0012**	**-.0003**	**.0002**	**.0963**
Stddev	.0007	.0014	.0180	.0002	.0021	.0001	.0009	.0001	.0021
%RSD	89.40	122.4	2.241	42.72	1.981	4.653	270.2	29.28	2.210
#1	.0001	-.0005	.8195	.0005	.1090	.0012	-.0000	.0003	.0981
#2	.0008	.0020	.8111	.0003	.1054	.0012	-.0013	.0002	.0969
#3	.0016	.0020	.7849	.0006	.1052	.0011	.0004	.0002	.0939

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7211.7**	**33869.**	**5174.5**
Stddev	148.4	354.	65.0
%RSD	2.0582	1.0449	1.2557
#1	7100.1	33460.	5100.6
#2	7154.8	34064.	5222.7
#3	7380.2	34082.	5200.2

Sample Name: L1849141-20,T Acquired: 12/6/2018 21:52:16 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006**	**178.7**	**.2405**	**.0129**	**.6119**	**.0070**	**.0193**	**48.51**	**.0067**	**.1713**
Stddev	.0002	2.3	.0020	.0007	.0060	.0001	.0009	.62	.0001	.0016
%RSD	37.84	1.264	.8304	5.623	.9838	1.282	4.906	1.278	1.184	.9096
#1	.0008	181.3	.2400	.0121	.6187	.0071	.0192	49.21	.0067	.1718
#2	.0004	177.6	.2427	.0136	.6097	.0070	.0203	48.29	.0068	.1725
#3	.0008	177.2	.2388	.0131	.6073	.0069	.0184	48.04	.0067	.1695

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2917**	**.5834**	**378.2**	**20.15**	**75.33**	**3.626**	**.0098**	**7.191**	**.2582**	**.5886**
Stddev	.0009	.0020	4.4	.27	.54	.044	.0001	.072	.0025	.0034
%RSD	.2962	.3372	1.152	1.340	.7138	1.226	1.465	1.007	.9782	.5774
#1	.2908	.5857	383.2	20.46	75.95	3.677	.0098	7.271	.2592	.5898
#2	.2918	.5819	376.4	20.06	75.03	3.602	.0099	7.173	.2602	.5912
#3	.2926	.5827	375.1	19.94	75.00	3.599	.0096	7.129	.2554	.5847

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0421**	**-.0040**	**4.972**	**.0235**	**.1926**	**6.954**	**-.0014**	**.5686**	**1.539**
Stddev	.0009	.0020	.027	.0005	.0025	.025	.0008	.0007	.013
%RSD	2.221	50.08	.5358	1.965	1.323	.3661	57.40	.1187	.8206
#1	.0411	-.0063	4.974	.0229	.1955	6.933	-.0021	.5687	1.545
#2	.0422	-.0030	4.997	.0238	.1914	6.947	-.0005	.5679	1.548
#3	.0430	-.0027	4.944	.0236	.1908	6.982	-.0016	.5693	1.524

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**8274.0**	**40272.**	**6286.3**
Stddev	60.4	39.	55.7
%RSD	.73015	.09622	.88578
#1	8253.4	40227.	6222.9
#2	8226.5	40294.	6308.4
#3	8342.0	40294.	6327.5

Sample Name: L1849141-22,T Acquired: 12/6/2018 21:57:13 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**251.0**	**.1238**	**.0110**	**.4582**	**.0081**	**.0179**	**16.18**	**.0063**	**.1796**
Stddev	.0001	2.0	.0014	.0008	.0038	.0001	.0025	.06	.0001	.0020
%RSD	11.57	.7843	1.113	7.628	.8379	1.296	14.27	.3959	1.123	1.087
#1	.0005	252.9	.1253	.0119	.4623	.0081	.0182	16.24	.0064	.1810
#2	.0004	251.1	.1227	.0106	.4576	.0081	.0202	16.20	.0063	.1805
#3	.0005	248.9	.1235	.0104	.4547	.0079	.0151	16.11	.0062	.1774

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2341**	**.4826**	**388.8**	**7.237**	**77.67**	**6.822**	**.0026**	**.9955**	**.2841**	**.2022**
Stddev	.0013	.0012	2.5	.057	.09	.054	.0004	.0099	.0028	.0012
%RSD	.5410	.2569	.6520	.7810	.1159	.7957	15.79	.9972	.9714	.5779
#1	.2342	.4830	390.9	7.302	77.68	6.867	.0031	1.006	.2861	.2026
#2	.2327	.4812	389.6	7.198	77.58	6.837	.0024	.9944	.2854	.2031
#3	.2353	.4836	386.0	7.211	77.76	6.761	.0023	.9862	.2810	.2009

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0203**	**-.0029**	**9.672**	**.0109**	**.0871**	**8.872**	**-.0061**	**.5457**	**.8325**
Stddev	.0011	.0012	.080	.0004	.0010	.015	.0012	.0030	.0087
%RSD	5.452	40.45	.8310	3.597	1.176	.1631	20.51	.5421	1.046
#1	.0212	-.0034	9.716	.0113	.0883	8.858	-.0075	.5457	.8374
#2	.0206	-.0038	9.721	.0109	.0868	8.872	-.0050	.5427	.8376
#3	.0191	-.0016	9.579	.0105	.0863	8.887	-.0058	.5486	.8224

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**8128.4**	**39276.**	**6099.3**
Stddev	78.1	77.	16.8
%RSD	.96125	.19711	.27462
#1	8074.9	39234.	6110.2
#2	8092.1	39365.	6080.0
#3	8218.0	39228.	6107.7

Sample Name: L1849141-24,T Acquired: 12/6/2018 22:02:10 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008**	**179.9**	**.0769**	**.0090**	**.2557**	**.0059**	**.0118**	**17.12**	**.0043**	**.1222**
Stddev	.0001	1.1	.0010	.0005	.0021	.0001	.0011	.07	.0001	.0009
%RSD	15.71	.6153	1.329	5.611	.8257	1.489	9.369	.3907	1.229	.7210
#1	.0007	179.2	.0775	.0087	.2540	.0059	.0115	17.10	.0044	.1226
#2	.0007	179.3	.0774	.0087	.2551	.0058	.0130	17.07	.0043	.1229
#3	.0009	181.2	.0757	.0095	.2581	.0059	.0108	17.20	.0043	.1212

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1917**	**.3699**	**236.4**	**3.798**	**98.69**	**8.032**	**.0070**	**.7296**	**.1774**	**.6178**
Stddev	.0023	.0039	1.3	.036	.40	.031	.0002	.0055	.0013	.0063
%RSD	1.203	1.042	.5674	.9582	.4091	.3817	2.475	.7589	.7107	1.020
#1	.1943	.3743	235.8	3.760	99.12	8.019	.0068	.7256	.1783	.6195
#2	.1898	.3674	235.5	3.802	98.31	8.010	.0071	.7273	.1780	.6231
#3	.1909	.3679	238.0	3.832	98.64	8.067	.0071	.7359	.1760	.6109

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0143**	**.0000**	**7.491**	**.0077**	**.0809**	**4.353**	**-.0033**	**.3097**	**2.144**
Stddev	.0010	.0020	.066	.0007	.0004	.047	.0005	.0027	.020
%RSD	6.819	5355.	.8832	9.023	.4952	1.086	14.83	.8781	.9277
#1	.0132	.0022	7.520	.0082	.0807	4.406	-.0036	.3126	2.154
#2	.0150	-.0016	7.538	.0081	.0806	4.334	-.0027	.3093	2.156
#3	.0147	-.0005	7.416	.0069	.0814	4.317	-.0035	.3072	2.121

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7801.3**	**37350.**	**5809.1**
Stddev	63.2	236.	19.0
%RSD	.81023	.63225	.32704
#1	7765.0	37077.	5809.1
#2	7764.7	37486.	5828.1
#3	7874.3	37487.	5790.1

Sample Name: L1849141-26,T Acquired: 12/6/2018 22:06:59 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**216.4**	**.1114**	**.0101**	**.5426**	**.0074**	**.0175**	**21.05**	**.0059**	**.1972**
Stddev	.0003	2.7	.0016	.0002	.0056	.0001	.0007	.22	.0001	.0013
%RSD	83.90	1.228	1.419	1.843	1.031	.8336	4.262	1.039	1.354	.6747
#1	.0005	219.3	.1115	.0099	.5483	.0074	.0183	21.29	.0059	.1983
#2	.0005	215.8	.1097	.0103	.5423	.0073	.0170	21.01	.0058	.1977
#3	.0000	214.1	.1129	.0101	.5371	.0073	.0170	20.86	.0060	.1957

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2359**	**.5057**	**363.7**	**7.607**	**72.40**	**9.308**	**.0031**	**.9350**	**.2553**	**.1723**
Stddev	.0001	.0020	3.9	.082	.44	.122	.0002	.0109	.0019	.0019
%RSD	.0620	.3979	1.069	1.074	.6026	1.315	7.927	1.166	.7454	1.086
#1	.2360	.5080	368.0	7.699	72.88	9.439	.0031	.9459	.2570	.1738
#2	.2357	.5048	362.8	7.545	72.30	9.289	.0033	.9349	.2557	.1728
#3	.2359	.5042	360.4	7.575	72.02	9.196	.0028	.9241	.2533	.1702

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0200**	**-.0054**	**8.960**	**.0079**	**.0981**	**7.721**	**-.0050**	**.5265**	**.7581**
Stddev	.0002	.0006	.056	.0004	.0009	.061	.0010	.0014	.0053
%RSD	1.137	11.43	.6221	4.828	.9586	.7853	20.89	.2610	.6933
#1	.0200	-.0057	9.010	.0075	.0990	7.775	-.0038	.5274	.7633
#2	.0197	-.0047	8.972	.0081	.0981	7.734	-.0055	.5249	.7582
#3	.0202	-.0058	8.900	.0082	.0971	7.655	-.0057	.5271	.7528

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**8142.6**	**39364.**	**6071.7**
Stddev	51.2	97.	33.3
%RSD	.62930	.24525	.54842
#1	8096.2	39319.	6036.4
#2	8133.8	39475.	6076.3
#3	8197.6	39298.	6102.6

Sample Name: L1849141-28,T Acquired: 12/6/2018 22:11:56 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**181.4**	**.1043**	**.0119**	**.3372**	**.0064**	**.0179**	**13.92**	**.0055**	**.1617**
Stddev	.0003	.7	.0010	.0010	.0006	.0001	.0001	.07	.0001	.0009
%RSD	73.65	.3873	.9573	8.752	.1837	.8953	.6651	.5053	1.220	.5777
#1	.0005	182.1	.1045	.0131	.3379	.0064	.0180	14.00	.0056	.1621
#2	.0001	181.2	.1052	.0115	.3368	.0065	.0178	13.90	.0055	.1623
#3	.0007	180.7	.1032	.0111	.3368	.0065	.0180	13.86	.0055	.1606

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1899**	**.5523**	**320.2**	**6.083**	**62.44**	**7.411**	**.0025**	**.6847**	**.2377**	**.2469**
Stddev	.0024	.0062	1.8	.014	.53	.041	.0001	.0055	.0018	.0015
%RSD	1.238	1.127	.5505	.2344	.8537	.5533	2.281	.8067	.7550	.6000
#1	.1923	.5583	322.2	6.097	63.05	7.458	.0024	.6886	.2386	.2467
#2	.1898	.5528	319.7	6.085	62.20	7.396	.0025	.6784	.2389	.2485
#3	.1876	.5459	318.8	6.068	62.06	7.380	.0025	.6870	.2357	.2456

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0170**	**-.0013**	**12.97**	**.0108**	**.0877**	**6.154**	**-.0059**	**.4633**	**.8428**
Stddev	.0009	.0003	.09	.0003	.0002	.085	.0005	.0064	.0066
%RSD	5.354	22.56	.6926	2.447	.2462	1.379	7.756	1.381	.7799
#1	.0160	-.0016	13.01	.0111	.0878	6.242	-.0059	.4700	.8459
#2	.0174	-.0012	13.03	.0106	.0875	6.147	-.0063	.4625	.8472
#3	.0177	-.0011	12.87	.0108	.0878	6.073	-.0054	.4573	.8352

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7884.3**	**38144.**	**5845.4**
Stddev	53.4	368.	37.0
%RSD	.67706	.96425	.63270
#1	7857.6	37793.	5805.6
#2	7849.6	38114.	5851.9
#3	7945.8	38527.	5878.7

Sample Name: L1849141-30,T Acquired: 12/6/2018 22:16:45 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**256.4**	**.1217**	**.0105**	**.8764**	**.0095**	**.0196**	**32.48**	**.0070**	**.2153**
Stddev	.0002	3.7	.0008	.0010	.0118	.0001	.0003	.38	.0001	.0018
%RSD	58.75	1.425	.6419	9.250	1.351	1.210	1.582	1.163	.8557	.8233
#1	.0001	260.6	.1211	.0094	.8900	.0096	.0193	32.91	.0071	.2158
#2	.0003	254.1	.1226	.0108	.8702	.0094	.0197	32.23	.0070	.2168
#3	.0005	254.4	.1215	.0113	.8689	.0095	.0199	32.29	.0070	.2133

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2330**	**.6281**	**425.2**	**10.05**	**91.17**	**11.77**	**.0054**	**2.023**	**.2890**	**.2508**
Stddev	.0010	.0018	2.0	.16	.81	.17	.0002	.028	.0026	.0039
%RSD	.4143	.2915	.4643	1.556	.8842	1.427	3.375	1.406	.9151	1.559
#1	.2327	.6296	427.5	10.23	92.08	11.96	.0052	2.056	.2901	.2504
#2	.2341	.6288	423.8	9.951	90.85	11.65	.0056	2.004	.2909	.2548
#3	.2322	.6261	424.3	9.964	90.57	11.69	.0055	2.009	.2860	.2470

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0221**	**-.0048**	**6.329**	**.0154**	**.2030**	**7.142**	**-.0045**	**.6048**	**.7952**
Stddev	.0016	.0002	.065	.0005	.0026	.048	.0003	.0018	.0071
%RSD	7.293	3.228	1.022	3.341	1.301	.6706	6.907	.2969	.8949
#1	.0203	-.0046	6.357	.0149	.2061	7.172	-.0042	.6055	.7987
#2	.0234	-.0047	6.376	.0159	.2014	7.168	-.0048	.6062	.8000
#3	.0226	-.0049	6.255	.0155	.2017	7.087	-.0045	.6028	.7871

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**8265.4**	**40165.**	**6164.8**
Stddev	70.9	125.	65.0
%RSD	.85737	.31064	1.0540
#1	8231.5	40181.	6089.8
#2	8217.8	40033.	6202.7
#3	8346.9	40281.	6202.0

Sample Name: L1849141-32,T Acquired: 12/6/2018 22:21:51 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0017**	**94.42**	**.2934**	**.0281**	**1.359**	**.0073**	**.0253**	**14.47**	**.0064**	**.1407**
Stddev	.0005	.50	.0033	.0009	.007	.0001	.0007	.10	.0000	.0010
%RSD	27.14	.5267	1.124	3.184	.5454	.7164	2.685	.6652	.6572	.7136
#1	.0022	94.95	.2958	.0280	1.368	.0074	.0254	14.58	.0064	.1415
#2	.0016	94.36	.2947	.0290	1.356	.0073	.0258	14.40	.0065	.1410
#3	.0013	93.96	.2896	.0272	1.354	.0073	.0245	14.42	.0064	.1396

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2276**	**1.337**	**381.7**	**12.10**	**29.60**	**4.456**	**.0318**	**1.073**	**.2118**	**2.709**
Stddev	.0014	.009	2.0	.06	.07	.018	.0004	.012	.0012	.021
%RSD	.6073	.6772	.5108	.5250	.2367	.3974	1.234	1.069	.5710	.7673
#1	.2267	1.336	383.9	12.17	29.54	4.476	.0318	1.086	.2126	2.722
#2	.2291	1.347	380.9	12.08	29.60	4.451	.0322	1.066	.2124	2.720
#3	.2268	1.329	380.2	12.05	29.68	4.442	.0315	1.066	.2104	2.685

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0830**	**.0193**	**6.772**	**.2874**	**.2301**	**4.940**	**-.0022**	**.3601**	**.7274**
Stddev	.0010	.0026	.053	.0020	.0015	.036	.0015	.0026	.0063
%RSD	1.242	13.44	.7794	.6837	.6441	.7226	67.42	.7258	.8632
#1	.0841	.0183	6.802	.2883	.2318	4.922	-.0015	.3589	.7307
#2	.0830	.0222	6.802	.2887	.2295	4.981	-.0039	.3631	.7313
#3	.0820	.0173	6.711	.2851	.2290	4.917	-.0012	.3582	.7201

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7754.3**	**37532.**	**5716.9**
Stddev	62.4	225.	11.7
%RSD	.80513	.59915	.20467
#1	7713.5	37539.	5708.6
#2	7723.4	37303.	5730.3
#3	7826.2	37753.	5711.8

Sample Name: L1849141-34,T Acquired: 12/6/2018 22:26:38 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0015**	**139.6**	**.2944**	**.0350**	**1.435**	**.0078**	**.0270**	**25.80**	**.0071**	**.1672**
Stddev	.0003	.7	.0020	.0008	.006	.0000	.0011	.08	.0000	.0009
%RSD	17.09	.4853	.6876	2.364	.4148	.5584	4.237	.2988	.2261	.5173
#1	.0014	140.4	.2958	.0340	1.442	.0078	.0265	25.84	.0071	.1670
#2	.0018	139.3	.2953	.0355	1.432	.0077	.0283	25.71	.0071	.1682
#3	.0013	139.2	.2920	.0354	1.431	.0078	.0262	25.85	.0071	.1665

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3731**	**1.075**	**411.1**	**18.64**	**61.60**	**4.852**	**.0315**	**1.309**	**.2840**	**2.537**
Stddev	.0007	.002	1.5	.08	.20	.017	.0003	.009	.0019	.019
%RSD	.1906	.2097	.3711	.4374	.3229	.3547	.8128	.6610	.6794	.7517
#1	.3733	1.073	412.8	18.73	61.78	4.871	.0313	1.315	.2828	2.535
#2	.3723	1.074	410.3	18.61	61.39	4.846	.0318	1.314	.2863	2.557
#3	.3737	1.077	410.1	18.57	61.63	4.838	.0315	1.300	.2830	2.519

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0750**	**.0176**	**5.153**	**.2531**	**.2378**	**6.981**	**-.0039**	**.5351**	**.9682**
Stddev	.0018	.0014	.049	.0018	.0014	.007	.0010	.0012	.0062
%RSD	2.371	7.847	.9513	.7053	.5905	.1024	25.34	.2222	.6410
#1	.0745	.0167	5.168	.2525	.2393	6.973	-.0027	.5357	.9687
#2	.0735	.0169	5.192	.2550	.2366	6.985	-.0043	.5337	.9741
#3	.0770	.0192	5.098	.2516	.2375	6.985	-.0045	.5358	.9617

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7782.0**	**38067.**	**5787.4**
Stddev	35.7	58.	11.3
%RSD	.45890	.15351	.19488
#1	7773.9	38044.	5786.3
#2	7751.0	38134.	5799.2
#3	7821.0	38024.	5776.7

Sample Name: L1848674-21,C Acquired: 12/6/2018 22:31:35 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0006**	**.0513**	**.0013**	**.0340**	**.0361**	**.0001**	**-.0009**	**45.33**	**.0005**	**.0037**
Stddev	.0005	.0147	.0010	.0012	.0004	.0000	.0003	.68	.0000	.0001
%RSD	86.77	28.75	78.51	3.493	1.076	37.09	30.81	1.503	5.985	3.874
#1	-.0007	.0343	.0013	.0351	.0365	.0001	-.0006	45.96	.0006	.0038
#2	-.0000	.0587	.0022	.0343	.0361	.0001	-.0010	45.41	.0005	.0038
#3	-.0010	.0609	.0002	.0328	.0357	.0001	-.0010	44.61	.0005	.0035

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**.0028**	**.2112**	**1.634**	**2.387**	**.3642**	**-.0004**	**164.4**	**.0047**	**.0336**
Stddev	.0001	.0003	.0298	.059	.015	.0059	.0001	3.8	.0002	.0015
%RSD	21.58	10.72	14.11	3.620	.6298	1.622	36.93	2.318	4.895	4.575
#1	.0004	.0025	.1836	1.639	2.391	.3698	-.0005	168.5	.0047	.0343
#2	.0005	.0031	.2070	1.691	2.400	.3647	-.0004	160.9	.0049	.0348
#3	.0004	.0027	.2428	1.573	2.371	.3581	-.0002	163.9	.0045	.0319

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0025**	**.0013**	**.5921**	**.0002**	**.1489**	**.0095**	**-.0003**	**.0004**	**.1258**
Stddev	.0006	.0019	.0207	.0003	.0015	.0008	.0009	.0001	.0033
%RSD	22.86	152.4	3.496	170.5	1.001	7.943	342.8	23.78	2.615
#1	.0025	.0024	.6091	.0001	.1501	.0104	.0008	.0005	.1279
#2	.0019	-.0010	.5982	.0006	.1493	.0092	-.0007	.0003	.1276
#3	.0030	.0024	.5691	-.0001	.1473	.0090	-.0008	.0005	.1221

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7182.4**	**33794.**	**5053.2**
Stddev	193.0	384.	36.1
%RSD	2.6871	1.1355	.71411
#1	7031.2	34052.	5016.7
#2	7116.1	33353.	5054.1
#3	7399.8	33978.	5088.8

Sample Name: CCV Acquired: 12/6/2018 22:36:37 Type: QC
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4871**	**.5285**	**.4934**	**.4926**	**.5077**	**.4720**	**-.0021**	**.4949**	**.4883**	**.4919**
Stddev	.0053	.0018	.0053	.0051	.0058	.0058	.0005	.0071	.0067	.0070
%RSD	1.083	.3498	1.068	1.028	1.133	1.238	26.40	1.428	1.363	1.416
#1	.4858	.5282	.4965	.4962	.5047	.4703	-.0025	.4891	.4924	.4964
#2	.4929	.5305	.4963	.4948	.5143	.4785	-.0022	.5027	.4919	.4955
#3	.4826	.5269	.4873	.4868	.5040	.4672	-.0015	.4928	.4806	.4839
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4881**	**.4883**	**.5305**	**4.806**	**.5412**	**.5211**	**.4888**	**9.745**	**.4876**	**.5051**
Stddev	.0076	.0063	.0053	.048	.0138	.0073	.0058	.122	.0071	.0082
%RSD	1.567	1.283	.9923	1.003	2.551	1.405	1.196	1.247	1.449	1.621
#1	.4834	.4843	.5276	4.760	.5369	.5179	.4925	9.702	.4920	.5087
#2	.4969	.4955	.5366	4.856	.5567	.5295	.4918	9.882	.4914	.5108
#3	.4840	.4851	.5273	4.802	.5301	.5160	.4820	9.650	.4794	.4957
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4957**	**.4930**	**5.087**	**.4828**	**.4857**	**.4841**	**.4879**	**.5038**	**.4861**
Stddev	.0059	.0059	.063	.0054	.0048	.0062	.0059	.0052	.0068
%RSD	1.198	1.199	1.243	1.109	.9927	1.288	1.210	1.042	1.390
#1	.5003	.4983	5.132	.4850	.4830	.4817	.4914	.5020	.4904
#2	.4978	.4941	5.115	.4867	.4913	.4912	.4912	.5097	.4897
#3	.4890	.4866	5.015	.4767	.4829	.4795	.4811	.4997	.4784
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7564.8**	**35748.**	**5213.8**
Stddev	95.8	323.	56.1
%RSD	1.2660	.90332	1.0761
#1	7501.8	35940.	5219.5
#2	7517.5	35375.	5155.0
#3	7675.0	35929.	5266.8

Sample Name: CCB Acquired: 12/6/2018 22:46:11 Type: QC
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0002**	**.0136**	**-.0001**	**-.0002**	**.0005**	**.0002**	**.0005**	**.0076**	**.0002**	**.0003**
Stddev	.0002	.0028	.0004	.0004	.0002	.0001	.0005	.0105	.0000	.0001
%RSD	117.3	20.37	531.3	201.4	50.45	30.84	113.4	138.7	27.71	23.23
#1	-.0002	.0111	.0003	-.0005	.0007	.0001	.0009	.0170	.0002	.0003
#2	-.0005	.0131	-.0001	.0003	.0003	.0002	.0007	-.0038	.0001	.0003
#3	.0000	.0166	-.0004	-.0004	.0003	.0002	-.0001	.0097	.0001	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0002**	**.0001**	**.0089**	**.0057**	**.0021**	**-.0002**	**.0002**	**.0011**	**.0001**	**.0008**
Stddev	.0001	.0001	.0017	.0220	.0009	.0003	.0001	.0024	.0000	.0002
%RSD	76.50	96.38	18.56	382.9	42.33	137.8	45.56	214.9	58.07	21.80
#1	-.0001	-.0000	.0070	.0284	.0029	-.0003	.0003	-.0015	.0001	.0010
#2	-.0001	.0002	.0097	-.0156	.0011	-.0005	.0002	.0018	.0001	.0007
#3	-.0003	.0002	.0101	.0044	.0023	.0001	.0001	.0030	.0001	.0007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0007**	**-.0002**	**.0137**	**.0006**	**.0001**	**.0009**	**.0006**	**.0001**	**.0003**
Stddev	.0005	.0006	.0006	.0005	.0000	.0001	.0002	.0000	.0001
%RSD	64.85	349.5	4.682	87.84	20.29	9.508	39.16	30.49	36.70
#1	.0008	.0004	.0140	.0010	.0001	.0008	.0007	.0001	.0004
#2	.0002	-.0009	.0141	.0000	.0002	.0009	.0003	.0001	.0002
#3	.0011	-.0001	.0129	.0007	.0002	.0008	.0007	.0001	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7663.1**	**35705.**	**5073.2**
Stddev	289.9	101.	68.8
%RSD	3.7826	.28206	1.3571
#1	7498.5	35629.	4995.0
#2	7493.1	35819.	5100.3
#3	7997.8	35667.	5124.4

Sample Name: WG1186017-1,T Acquired: 12/6/2018 22:51:17 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**.0085**	**-.0007**	**-.0004**	**.0000**	**-.0000**	**-.0002**	**.0079**	**.0000**	**.0002**
Stddev	.0002	.0047	.0001	.0003	.0001	.0000	.0004	.0039	.0000	.0001
%RSD	317.9	55.67	13.75	79.71	596.4	157.0	172.4	48.97	358.7	40.36
#1	.0002	.0036	-.0006	-.0002	-.0001	-.0000	.0002	.0101	.0000	.0002
#2	-.0002	.0089	-.0008	-.0007	.0001	-.0000	-.0002	.0101	-.0000	.0003
#3	-.0002	.0130	-.0007	-.0002	.0000	.0000	-.0006	.0034	.0000	.0001

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**-.0002**	**.0112**	**-.0214**	**-.0000**	**.0001**	**-.0004**	**.0076**	**.0005**	**-.0004**
Stddev	.0002	.0004	.0033	.0019	.0039	.0004	.0001	.0022	.0003	.0003
%RSD	31.38	161.0	29.22	8.790	13900.	354.2	24.49	28.71	54.48	77.29
#1	.0005	.0002	.0076	-.0215	-.0042	-.0003	-.0003	.0094	.0004	-.0002
#2	.0003	-.0006	.0140	-.0233	.0034	.0001	-.0005	.0081	.0009	-.0008
#3	.0007	-.0003	.0120	-.0195	.0007	.0005	-.0005	.0052	.0003	-.0002

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**-.0004**	**.0025**	**-.0007**	**.0002**	**.0003**	**-.0003**	**-.0001**	**.0000**
Stddev	.0009	.0009	.0010	.0004	.0001	.0003	.0002	.0002	.0001
%RSD	414.2	230.4	40.68	66.03	26.20	86.20	83.06	158.7	286.9
#1	-.0005	.0007	.0034	-.0002	.0003	.0004	-.0003	-.0004	.0001
#2	.0012	-.0010	.0028	-.0008	.0002	.0005	-.0005	.0000	.0000
#3	.0000	-.0009	.0014	-.0010	.0003	.0000	-.0001	-.0000	-.0001

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7580.3**	**35957.**	**5189.0**
Stddev	216.5	68.	37.1
%RSD	2.8561	.19039	.71575
#1	7427.9	35897.	5147.8
#2	7484.9	35942.	5199.1
#3	7828.1	36032.	5220.0

Sample Name: WG1186017-2,T,2 Acquired: 12/6/2018 22:56:21 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2381**	**24.50**	**.5867**	**.7476**	**1.942**	**.8348**	**-.0084**	**19.88**	**.9151**	**.7690**
Stddev	.0004	.41	.0098	.0112	.036	.0148	.0003	.39	.0131	.0112
%RSD	.1881	1.665	1.670	1.493	1.868	1.773	3.698	1.977	1.430	1.452
#1	.2385	24.53	.5935	.7562	1.952	.8360	-.0085	19.79	.9257	.7780
#2	.2376	24.88	.5912	.7515	1.973	.8489	-.0087	20.32	.9191	.7725
#3	.2381	24.07	.5755	.7350	1.902	.8194	-.0081	19.55	.9004	.7565

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5652**	**.7794**	**63.43**	**7.134**	**9.152**	**1.400**	**.7581**	**5.687**	**.6572**	**.9352**
Stddev	.0016	.0025	1.03	.140	.147	.025	.0109	.106	.0091	.0114
%RSD	.2841	.3259	1.631	1.958	1.603	1.751	1.439	1.867	1.387	1.219
#1	.5670	.7823	63.47	7.121	9.094	1.399	.7665	5.726	.6645	.9453
#2	.5645	.7774	64.45	7.280	9.318	1.425	.7621	5.768	.6602	.9375
#3	.5640	.7785	62.38	7.002	9.042	1.376	.7458	5.566	.6470	.9228

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4232**	**.3207**	**3.576**	**.5923**	**.3949**	**1.214**	**1.010**	**.7189**	**.8805**
Stddev	.0055	.0053	.048	.0070	.0068	.004	.014	.0021	.0127
%RSD	1.304	1.655	1.350	1.189	1.726	.3016	1.347	.2962	1.444
#1	.4264	.3259	3.610	.5972	.3955	1.218	1.021	.7214	.8908
#2	.4264	.3211	3.598	.5954	.4014	1.213	1.013	.7179	.8843
#3	.4168	.3153	3.521	.5842	.3878	1.211	.9947	.7175	.8663

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7662.9**	**36464.**	**5297.8**
Stddev	101.8	107.	74.5
%RSD	1.3285	.29386	1.4069
#1	7588.8	36356.	5318.8
#2	7620.9	36464.	5215.0
#3	7778.9	36571.	5359.5

Sample Name: WG1186017-3,T,2 Acquired: 12/6/2018 23:01:06 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2256**	**22.72**	**.5685**	**.7106**	**1.789**	**.7910**	**-.0084**	**18.65**	**.8487**	**.7438**
Stddev	.0018	.27	.0092	.0097	.016	.0082	.0009	.25	.0122	.0103
%RSD	.7974	1.196	1.621	1.366	.9180	1.031	10.31	1.319	1.435	1.391
#1	.2242	22.41	.5756	.7185	1.771	.7822	-.0075	18.39	.8584	.7515
#2	.2249	22.92	.5719	.7135	1.802	.7984	-.0092	18.87	.8527	.7477
#3	.2276	22.82	.5581	.6998	1.795	.7924	-.0086	18.70	.8350	.7320

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5381**	**.7641**	**58.33**	**6.630**	**8.492**	**1.312**	**.7309**	**5.592**	**.6352**	**.8945**
Stddev	.0010	.0015	.68	.074	.118	.018	.0099	.060	.0087	.0142
%RSD	.1910	.1951	1.165	1.117	1.395	1.362	1.351	1.075	1.363	1.590
#1	.5370	.7624	57.57	6.547	8.355	1.293	.7379	5.523	.6413	.9059
#2	.5382	.7653	58.89	6.655	8.559	1.329	.7351	5.633	.6389	.8991
#3	.5391	.7646	58.53	6.689	8.561	1.315	.7196	5.619	.6253	.8786

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4097**	**.3114**	**3.532**	**.5621**	**.3655**	**1.173**	**.9365**	**.6832**	**.8561**
Stddev	.0062	.0049	.054	.0080	.0032	.002	.0145	.0026	.0126
%RSD	1.517	1.580	1.524	1.420	.8883	.1862	1.549	.3878	1.476
#1	.4137	.3136	3.567	.5671	.3618	1.171	.9486	.6808	.8660
#2	.4128	.3148	3.560	.5664	.3679	1.173	.9405	.6827	.8605
#3	.4025	.3057	3.470	.5529	.3666	1.176	.9204	.6860	.8419

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7634.2**	**36453.**	**5336.8**
Stddev	107.8	57.	67.5
%RSD	1.4127	.15755	1.2648
#1	7551.0	36486.	5414.7
#2	7595.5	36486.	5299.7
#3	7756.1	36386.	5295.9

Sample Name: L1848428-01,T Acquired: 12/6/2018 23:05:52 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0002**	**68.48**	**.0617**	**.0031**	**.3580**	**.0044**	**-.0009**	**8.996**	**.0032**	**.0838**
Stddev	.0002	.70	.0007	.0005	.0043	.0001	.0003	.083	.0001	.0020
%RSD	112.6	1.020	1.099	15.66	1.204	2.994	39.00	.9241	2.668	2.396
#1	-.0001	69.17	.0624	.0036	.3624	.0046	-.0012	9.058	.0032	.0850
#2	-.0004	68.50	.0619	.0027	.3578	.0044	-.0010	9.028	.0033	.0850
#3	-.0000	67.77	.0610	.0029	.3537	.0043	-.0005	8.902	.0031	.0815

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1028**	**.1558**	**181.8**	**6.462**	**25.48**	**3.476**	**.0049**	**.4058**	**.1253**	**.3131**
Stddev	.0011	.0022	1.8	.053	.15	.035	.0003	.0082	.0028	.0064
%RSD	1.084	1.396	.9862	.8226	.5813	1.016	7.077	2.027	2.200	2.041
#1	.1030	.1569	183.6	6.518	25.65	3.511	.0053	.4145	.1272	.3170
#2	.1016	.1533	181.8	6.455	25.43	3.477	.0049	.4046	.1267	.3166
#3	.1038	.1572	180.0	6.412	25.37	3.440	.0046	.3982	.1221	.3057

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0117**	**-.0029**	**6.712**	**.0081**	**.0609**	**4.323**	**-.0007**	**.1807**	**.4655**
Stddev	.0014	.0015	.154	.0004	.0006	.044	.0004	.0016	.0099
%RSD	12.21	52.69	2.292	5.162	.9181	1.008	53.61	.8981	2.135
#1	.0131	-.0038	6.802	.0080	.0614	4.338	-.0005	.1814	.4715
#2	.0118	-.0011	6.800	.0086	.0610	4.274	-.0005	.1789	.4709
#3	.0102	-.0039	6.534	.0078	.0603	4.358	-.0012	.1819	.4540

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**8102.6**	**38500.**	**5604.9**
Stddev	148.9	306.	37.4
%RSD	1.8372	.79370	.66665
#1	8016.6	38381.	5563.1
#2	8016.8	38848.	5616.5
#3	8274.5	38272.	5635.1

Sample Name: L1848428-02,T Acquired: 12/6/2018 23:10:43 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**91.31**	**.0686**	**.0152**	**.7723**	**.0052**	**-.0004**	**101.3**	**.0035**	**.0921**
Stddev	.0001	.77	.0018	.0006	.0076	.0001	.0005	1.0	.0001	.0014
%RSD	61.42	.8483	2.626	3.912	.9783	1.303	125.7	.9474	1.618	1.550
#1	.0002	92.17	.0688	.0158	.7808	.0052	-.0009	102.4	.0035	.0927
#2	.0003	91.08	.0702	.0152	.7693	.0051	-.0005	100.9	.0035	.0931
#3	.0001	90.67	.0666	.0146	.7666	.0052	.0002	100.6	.0034	.0904

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1372**	**.2177**	**185.7**	**8.007**	**31.21**	**3.069**	**.0032**	**1.193**	**.1384**	**.8538**
Stddev	.0004	.0004	1.7	.094	.25	.028	.0001	.006	.0017	.0136
%RSD	.3021	.1842	.8966	1.175	.7919	.9044	2.078	.4792	1.251	1.588
#1	.1370	.2180	187.6	8.113	31.50	3.100	.0032	1.199	.1390	.8606
#2	.1369	.2179	185.1	7.973	31.06	3.059	.0031	1.193	.1398	.8627
#3	.1377	.2173	184.4	7.935	31.08	3.048	.0032	1.187	.1365	.8382

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0128**	**-.0009**	**12.92**	**.0151**	**.1552**	**5.963**	**-.0019**	**.2166**	**.6129**
Stddev	.0001	.0011	.22	.0002	.0013	.004	.0000	.0005	.0102
%RSD	.4935	125.2	1.724	1.244	.8649	.0586	1.821	.2186	1.658
#1	.0129	-.0019	13.01	.0150	.1567	5.966	-.0019	.2165	.6177
#2	.0128	-.0010	13.09	.0153	.1546	5.959	-.0019	.2162	.6197
#3	.0128	.0003	12.67	.0151	.1542	5.963	-.0019	.2171	.6012

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7993.4**	**38367.**	**5657.0**
Stddev	114.8	83.	40.2
%RSD	1.4366	.21747	.71013
#1	7925.9	38322.	5611.4
#2	7928.3	38463.	5672.3
#3	8126.0	38315.	5687.2

Sample Name: L1848428-03,T Acquired: 12/6/2018 23:15:35 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**92.29**	**.0637**	**.0071**	**.5276**	**.0052**	**-.0001**	**21.89**	**.0038**	**.0876**
Stddev	.0004	1.03	.0012	.0002	.0056	.0001	.0001	.25	.0001	.0014
%RSD	1012.	1.116	1.902	3.249	1.060	1.678	91.13	1.152	2.871	1.613
#1	-.0003	92.36	.0644	.0072	.5287	.0053	-.0001	21.91	.0039	.0887
#2	.0005	93.29	.0643	.0073	.5326	.0052	.0000	22.13	.0038	.0882
#3	-.0001	91.23	.0623	.0069	.5215	.0051	-.0002	21.63	.0037	.0860

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1280**	**.1928**	**206.5**	**11.57**	**30.78**	**4.040**	**.0021**	**1.118**	**.1416**	**.9361**
Stddev	.0010	.0011	2.1	.10	.27	.049	.0001	.009	.0025	.0153
%RSD	.7469	.5581	1.032	.8631	.8914	1.211	4.120	.8148	1.789	1.634
#1	.1273	.1919	206.9	11.58	30.82	4.053	.0022	1.118	.1433	.9457
#2	.1291	.1940	208.4	11.67	31.04	4.081	.0021	1.128	.1428	.9442
#3	.1275	.1924	204.2	11.47	30.49	3.986	.0020	1.110	.1387	.9185

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0106**	**-.0042**	**5.798**	**.2188**	**.0986**	**5.596**	**-.0029**	**.2307**	**.5577**
Stddev	.0001	.0009	.096	.0039	.0013	.030	.0008	.0014	.0092
%RSD	1.345	20.29	1.663	1.793	1.305	.5361	27.97	.6051	1.650
#1	.0105	-.0040	5.869	.2213	.0988	5.578	-.0020	.2301	.5642
#2	.0107	-.0035	5.838	.2209	.0997	5.631	-.0035	.2323	.5617
#3	.0104	-.0052	5.688	.2143	.0972	5.580	-.0033	.2298	.5472

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**8182.4**	**38808.**	**5669.6**
Stddev	129.2	181.	50.7
%RSD	1.5793	.46610	.89352
#1	8099.6	38900.	5649.4
#2	8116.2	38600.	5632.2
#3	8331.3	38925.	5727.2

Sample Name: L1848428-04,T Acquired: 12/6/2018 23:20:27 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0025**	**122.6**	**.1102**	**.0120**	**.7983**	**.0064**	**.0054**	**26.87**	**.0056**	**.1005**
Stddev	.0002	.4	.0031	.0009	.0017	.0000	.0010	.18	.0001	.0020
%RSD	6.959	.3109	2.830	7.504	.2116	.1248	18.40	.6812	2.290	2.033
#1	.0026	122.2	.1117	.0125	.7966	.0064	.0057	26.78	.0057	.1016
#2	.0024	122.5	.1124	.0126	.7999	.0064	.0063	26.75	.0057	.1017
#3	.0023	123.0	.1067	.0110	.7984	.0064	.0043	27.08	.0055	.0981

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1785**	**.4041**	**239.3**	**8.708**	**37.11**	**4.925**	**.0068**	**1.414**	**.1750**	**2.628**
Stddev	.0007	.0011	.8	.037	.19	.016	.0003	.004	.0038	.053
%RSD	.4191	.2758	.3475	.4281	.5231	.3309	3.911	.2501	2.195	2.033
#1	.1786	.4052	238.6	8.679	36.92	4.913	.0068	1.410	.1767	2.656
#2	.1792	.4041	239.1	8.695	37.10	4.918	.0070	1.416	.1778	2.662
#3	.1777	.4029	240.3	8.750	37.31	4.943	.0065	1.417	.1707	2.567

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0169**	**.0002**	**5.813**	**.1132**	**.1374**	**5.112**	**-.0057**	**.2831**	**1.181**
Stddev	.0015	.0022	.124	.0020	.0005	.009	.0009	.0003	.023
%RSD	8.929	1161.	2.134	1.784	.3314	.1867	15.16	.1049	1.976
#1	.0185	-.0022	5.879	.1146	.1379	5.123	-.0047	.2828	1.194
#2	.0168	.0007	5.890	.1141	.1370	5.107	-.0064	.2832	1.195
#3	.0155	.0021	5.670	.1109	.1374	5.106	-.0060	.2834	1.154

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**8170.8**	**39367.**	**5850.1**
Stddev	149.3	10.	37.6
%RSD	1.8269	.02612	.64213
#1	8094.3	39357.	5882.9
#2	8075.3	39364.	5858.2
#3	8342.8	39378.	5809.1

Sample Name: L1848428-05,T Acquired: 12/6/2018 23:25:18 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0032**	**117.3**	**.1148**	**.0146**	**1.116**	**.0059**	**.0048**	**29.36**	**.0059**	**.0987**
Stddev	.0004	.8	.0030	.0004	.007	.0001	.0005	.24	.0001	.0019
%RSD	13.14	.6601	2.632	2.896	.6619	.9429	11.26	.8120	2.089	1.918
#1	.0028	116.8	.1173	.0149	1.112	.0059	.0054	29.24	.0060	.0995
#2	.0036	118.2	.1157	.0149	1.125	.0060	.0047	29.64	.0060	.1000
#3	.0032	117.0	.1115	.0142	1.112	.0060	.0043	29.21	.0058	.0965

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1595**	**.4818**	**222.3**	**8.351**	**28.86**	**6.202**	**.0098**	**.7139**	**.1701**	**4.692**
Stddev	.0006	.0021	1.5	.048	.12	.039	.0001	.0032	.0036	.090
%RSD	.3490	.4404	.6964	.5741	.4124	.6263	1.456	.4550	2.119	1.929
#1	.1598	.4842	221.6	8.317	28.84	6.183	.0100	.7155	.1725	4.738
#2	.1599	.4804	224.0	8.405	28.99	6.247	.0098	.7161	.1719	4.750
#3	.1589	.4807	221.2	8.329	28.75	6.177	.0097	.7102	.1660	4.588

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0200**	**.0022**	**5.624**	**.0820**	**.1694**	**5.863**	**-.0063**	**.2623**	**1.402**
Stddev	.0009	.0012	.114	.0023	.0010	.017	.0004	.0012	.028
%RSD	4.721	53.23	2.034	2.768	.6001	.2907	6.901	.4608	1.983
#1	.0209	.0033	5.687	.0835	.1689	5.880	-.0058	.2636	1.415
#2	.0190	.0010	5.694	.0831	.1706	5.864	-.0067	.2621	1.420
#3	.0200	.0023	5.492	.0794	.1688	5.845	-.0064	.2612	1.370

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**8089.6**	**38686.**	**5729.0**
Stddev	145.2	100.	24.2
%RSD	1.7948	.25951	.42205
#1	8006.6	38629.	5725.9
#2	8005.0	38627.	5706.5
#3	8257.3	38802.	5754.6

Sample Name: L1848674-23,C Acquired: 12/6/2018 23:30:10 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0005**	**.0483**	**-.0009**	**.0296**	**.0317**	**-.0000**	**-.0006**	**43.87**	**.0008**	**.0028**
Stddev	.0004	.0028	.0013	.0011	.0002	.0000	.0002	.34	.0000	.0002
%RSD	74.86	5.868	153.2	3.744	.6485	252.3	37.88	.7686	5.771	6.003
#1	-.0003	.0513	.0007	.0305	.0317	.0000	-.0005	44.23	.0008	.0030
#2	-.0009	.0457	-.0017	.0300	.0314	-.0000	-.0005	43.56	.0008	.0026
#3	-.0003	.0477	-.0015	.0284	.0318	-.0000	-.0009	43.81	.0007	.0029

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0035**	**.0173**	**.1024**	**1.251**	**2.360**	**.3050**	**.0004**	**162.5**	**.0035**	**.0455**
Stddev	.0002	.0001	.0194	.027	.011	.0019	.0001	1.1	.0001	.0010
%RSD	5.598	.7476	18.92	2.125	.4751	.6081	33.55	.6913	3.780	2.193
#1	.0037	.0172	.0826	1.281	2.372	.3069	.0005	163.7	.0036	.0464
#2	.0035	.0175	.1034	1.232	2.351	.3032	.0003	161.9	.0035	.0458
#3	.0033	.0172	.1213	1.239	2.357	.3051	.0004	161.7	.0033	.0444

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0017**	**.0010**	**.3722**	**-.0002**	**.1265**	**.0072**	**-.0008**	**.0003**	**.1262**
Stddev	.0004	.0005	.0083	.0005	.0011	.0003	.0001	.0001	.0033
%RSD	23.71	53.90	2.221	213.0	.9051	3.837	15.09	35.71	2.593
#1	.0022	.0016	.3801	-.0006	.1277	.0075	-.0008	.0004	.1288
#2	.0014	.0009	.3728	.0003	.1262	.0069	-.0009	.0003	.1274
#3	.0016	.0005	.3636	-.0005	.1255	.0072	-.0006	.0002	.1225

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7220.5**	**33951.**	**4935.8**
Stddev	172.5	237.	29.8
%RSD	2.3895	.69706	.60279
#1	7090.6	34159.	4908.2
#2	7154.7	33694.	4967.3
#3	7416.3	34001.	4931.7

Sample Name: L1848674-22,C Acquired: 12/6/2018 23:35:07 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment: 10

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**.0498**	**.0010**	**.0230**	**.0407**	**-.0000**	**-.0004**	**35.48**	**.0006**	**.0028**
Stddev	.0002	.0040	.0006	.0004	.0007	.0000	.0004	.55	.0000	.0001
%RSD	162.5	8.100	59.41	1.713	1.801	7420.	107.5	1.546	3.695	4.896
#1	.0000	.0460	.0005	.0231	.0415	.0000	-.0005	36.11	.0006	.0029
#2	-.0001	.0494	.0017	.0233	.0403	-.0001	-.0008	35.13	.0006	.0029
#3	-.0004	.0541	.0010	.0226	.0402	.0000	.0001	35.20	.0006	.0026

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**.0065**	**.0926**	**1.142**	**1.903**	**.2977**	**-.0004**	**159.7**	**.0058**	**.1224**
Stddev	.0001	.0000	.0030	.046	.012	.0042	.0000	2.1	.0001	.0027
%RSD	477.3	.3958	3.186	4.008	.6210	1.394	9.999	1.291	1.701	2.220
#1	.0000	.0065	.0901	1.195	1.917	.3023	-.0004	162.1	.0058	.1238
#2	.0002	.0066	.0919	1.116	1.899	.2965	-.0004	158.5	.0058	.1241
#3	-.0001	.0065	.0959	1.115	1.894	.2942	-.0004	158.6	.0057	.1193

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0015**	**.0011**	**.4039**	**-.0012**	**.1036**	**.0017**	**-.0005**	**.0002**	**.1641**
Stddev	.0009	.0006	.0096	.0005	.0019	.0003	.0010	.0002	.0041
%RSD	61.02	50.42	2.385	45.26	1.796	18.81	205.0	111.1	2.514
#1	.0005	.0017	.4097	-.0018	.1058	.0019	.0006	.0003	.1658
#2	.0016	.0006	.4092	-.0007	.1026	.0017	-.0014	-.0000	.1671
#3	.0023	.0011	.3928	-.0010	.1025	.0013	-.0008	.0003	.1594

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7231.0**	**34258.**	**4920.5**
Stddev	148.6	36.	43.8
%RSD	2.0554	.10409	.89084
#1	7147.3	34294.	4869.9
#2	7143.1	34256.	4943.9
#3	7402.6	34223.	4947.6

Sample Name: CCV Acquired: 12/6/2018 23:40:08 Type: QC
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4854**	**.5365**	**.4949**	**.4953**	**.5224**	**.4849**	**-.0025**	**.5154**	**.4888**	**.4934**
Stddev	.0040	.0174	.0073	.0066	.0099	.0090	.0002	.0141	.0065	.0064
%RSD	.8242	3.241	1.468	1.334	1.888	1.849	9.314	2.745	1.339	1.290
#1	.4900	.5188	.5014	.5001	.5151	.4788	-.0027	.5020	.4945	.4986
#2	.4836	.5535	.4962	.4980	.5336	.4952	-.0024	.5302	.4902	.4953
#3	.4827	.5372	.4870	.4878	.5186	.4806	-.0023	.5141	.4817	.4863
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4873**	**.4902**	**.5483**	**4.963**	F **.5537**	**.5378**	**.4903**	**10.05**	**.4874**	**.5066**
Stddev	.0026	.0011	.0100	.106	.0101	.0107	.0058	.17	.0060	.0073
%RSD	.5263	.2230	1.818	2.127	1.828	1.993	1.179	1.670	1.226	1.433
#1	.4899	.4914	.5408	4.891	.5469	.5303	.4946	9.923	.4929	.5136
#2	.4848	.4894	.5597	5.084	.5653	.5501	.4925	10.24	.4883	.5071
#3	.4873	.4897	.5445	4.914	.5489	.5331	.4837	9.989	.4810	.4991
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					.5524					
Low Limit					.4476					

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4976**	**.4953**	**5.097**	**.4827**	**.4979**	**.4815**	**.4889**	**.5028**	**.4868**
Stddev	.0059	.0070	.065	.0057	.0098	.0029	.0065	.0028	.0067
%RSD	1.182	1.413	1.273	1.172	1.968	.5962	1.329	.5551	1.375
#1	.5016	.5009	5.151	.4877	.4907	.4848	.4930	.5060	.4928
#2	.5003	.4975	5.116	.4838	.5091	.4802	.4923	.5011	.4881
#3	.4908	.4874	5.025	.4765	.4939	.4795	.4814	.5013	.4796
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7561.1**	**35868.**	**5100.1**
Stddev	91.5	149.	82.2
%RSD	1.2097	.41659	1.6125
#1	7483.2	35703.	5145.5
#2	7538.2	35993.	5005.2
#3	7661.8	35909.	5149.6

Sample Name: CCB Acquired: 12/6/2018 23:44:58 Type: QC
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0000**	**.0149**	**-.0005**	**.0001**	**.0002**	**.0001**	**.0001**	**.0088**	**.0002**	**.0002**
Stddev	.0001	.0098	.0003	.0002	.0002	.0000	.0004	.0060	.0000	.0000
%RSD	4894.	65.90	70.05	179.2	108.1	24.24	600.0	67.94	17.34	8.320
#1	-.0001	.0056	-.0005	.0002	-.0000	.0001	-.0004	.0047	.0002	.0002
#2	.0000	.0252	-.0001	.0001	.0004	.0002	.0004	.0060	.0002	.0003
#3	.0000	.0139	-.0008	-.0001	.0002	.0001	.0002	.0156	.0001	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**-.0001**	**.0102**	**-.0036**	**.0067**	**.0005**	**.0005**	**.0152**	**.0003**	**.0004**
Stddev	.0005	.0001	.0010	.0241	.0018	.0002	.0001	.0043	.0003	.0003
%RSD	201.9	154.0	9.639	665.1	27.17	44.33	26.33	28.42	118.8	74.78
#1	-.0001	.0000	.0093	-.0065	.0052	.0003	.0006	.0157	.0005	.0006
#2	.0001	-.0002	.0101	.0218	.0087	.0007	.0003	.0193	.0003	.0004
#3	.0008	-.0001	.0112	-.0262	.0063	.0006	.0005	.0107	-.0001	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0012**	**-.0005**	**.0118**	**.0014**	**.0002**	**.0010**	**.0005**	**.0002**	**.0004**
Stddev	.0010	.0008	.0016	.0002	.0002	.0002	.0005	.0001	.0001
%RSD	85.84	140.2	13.26	15.91	87.77	16.11	103.4	54.66	14.33
#1	.0004	.0001	.0133	.0016	.0002	.0009	-.0001	.0003	.0004
#2	.0024	-.0003	.0119	.0012	.0000	.0011	.0006	.0001	.0004
#3	.0009	-.0014	.0102	.0015	.0004	.0008	.0010	.0001	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7655.5**	**36085.**	**5073.1**
Stddev	215.9	58.	64.5
%RSD	2.8204	.15942	1.2722
#1	7523.7	36051.	5147.1
#2	7538.2	36052.	5028.5
#3	7904.7	36151.	5043.7

Sample Name: L1848428-06,T Acquired: 12/6/2018 23:50:03 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0023**	**95.03**	**.0849**	**.0059**	**.8261**	**.0052**	**.0006**	**14.54**	**.0064**	**.0972**
Stddev	.0001	.99	.0028	.0005	.0108	.0001	.0003	.15	.0001	.0020
%RSD	3.972	1.044	3.355	8.932	1.311	2.124	45.42	1.009	2.190	2.039
#1	.0023	94.44	.0869	.0055	.8184	.0051	.0006	14.45	.0065	.0985
#2	.0023	96.18	.0861	.0065	.8385	.0053	.0009	14.71	.0065	.0983
#3	.0022	94.49	.0816	.0056	.8215	.0051	.0004	14.46	.0062	.0950

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1576**	**.4750**	**183.1**	**9.255**	**38.75**	**3.412**	**.0028**	**.8775**	**.1949**	**3.618**
Stddev	.0009	.0011	2.2	.100	.55	.033	.0001	.0098	.0042	.080
%RSD	.6013	.2302	1.186	1.076	1.416	.9772	4.113	1.116	2.172	2.199
#1	.1570	.4758	181.6	9.200	38.38	3.390	.0029	.8696	.1972	3.667
#2	.1587	.4755	185.6	9.370	39.38	3.451	.0028	.8885	.1974	3.661
#3	.1572	.4738	182.1	9.195	38.49	3.396	.0027	.8745	.1900	3.526

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0139**	**-.0022**	**5.088**	**.0428**	**.0781**	**5.511**	**-.0028**	**.2861**	**1.676**
Stddev	.0013	.0018	.121	.0012	.0009	.016	.0009	.0013	.037
%RSD	9.447	83.06	2.383	2.738	1.202	.2815	31.18	.4383	2.192
#1	.0136	-.0025	5.154	.0436	.0776	5.495	-.0032	.2847	1.699
#2	.0154	-.0002	5.163	.0434	.0792	5.526	-.0033	.2870	1.694
#3	.0128	-.0038	4.949	.0415	.0775	5.512	-.0018	.2866	1.633

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**8152.8**	**39341.**	**5843.0**
Stddev	155.0	94.	70.7
%RSD	1.9008	.23970	1.2108
#1	8063.5	39445.	5892.3
#2	8063.0	39261.	5762.0
#3	8331.7	39317.	5874.9

Sample Name: L1848428-07,T Acquired: 12/6/2018 23:54:55 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0011**	**88.33**	**.0771**	**.0044**	**.5766**	**.0041**	**-.0011**	**11.97**	**.0040**	**.0727**
Stddev	.0001	.53	.0007	.0003	.0031	.0001	.0004	.08	.0001	.0013
%RSD	11.26	.5956	.8830	5.867	.5332	2.309	39.45	.6512	1.461	1.828
#1	.0011	87.76	.0778	.0047	.5732	.0040	-.0010	11.89	.0041	.0736
#2	.0011	88.40	.0769	.0044	.5776	.0041	-.0007	11.97	.0040	.0734
#3	.0009	88.81	.0765	.0041	.5791	.0042	-.0015	12.04	.0040	.0712

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1281**	**.2598**	**157.2**	**9.181**	**27.35**	**2.923**	**.0023**	**.6129**	**.1218**	**3.373**
Stddev	.0002	.0005	.9	.087	.11	.018	.0001	.0069	.0019	.066
%RSD	.1389	.1846	.5613	.9446	.3985	.6211	6.375	1.122	1.587	1.965
#1	.1283	.2598	156.2	9.119	27.23	2.902	.0022	.6072	.1231	3.411
#2	.1279	.2593	157.3	9.144	27.40	2.930	.0025	.6205	.1228	3.412
#3	.1281	.2602	158.0	9.280	27.43	2.936	.0023	.6111	.1196	3.297

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0119**	**-.0024**	**4.731**	**.0440**	**.0525**	**5.239**	**-.0027**	**.2074**	**1.134**
Stddev	.0006	.0013	.088	.0006	.0002	.004	.0006	.0003	.021
%RSD	4.988	52.48	1.861	1.373	.3628	.0734	20.31	.1643	1.865
#1	.0117	-.0032	4.787	.0442	.0523	5.243	-.0031	.2077	1.148
#2	.0126	-.0010	4.777	.0445	.0527	5.235	-.0029	.2072	1.144
#3	.0115	-.0031	4.630	.0433	.0526	5.240	-.0021	.2071	1.110

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**8041.5**	**38648.**	**5699.0**
Stddev	147.9	77.	22.2
%RSD	1.8395	.19911	.39030
#1	7943.5	38602.	5723.6
#2	7969.3	38736.	5692.9
#3	8211.6	38604.	5680.4

Sample Name: L1848428-08,T Acquired: 12/6/2018 23:59:47 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0002**	**93.13**	**.0931**	**.0036**	**.3205**	**.0060**	**.0043**	**7.837**	**.0042**	**.1220**
Stddev	.0003	1.07	.0028	.0002	.0027	.0001	.0009	.107	.0001	.0030
%RSD	167.2	1.153	3.037	5.978	.8574	1.823	20.27	1.360	3.221	2.419
#1	.0002	92.66	.0949	.0037	.3190	.0059	.0033	7.792	.0042	.1239
#2	-.0003	94.36	.0946	.0036	.3237	.0061	.0049	7.958	.0043	.1235
#3	-.0003	92.37	.0899	.0033	.3188	.0060	.0046	7.760	.0040	.1186

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1490**	**.2472**	**262.8**	**6.420**	**34.59**	**5.105**	**.0024**	**.2939**	**.1954**	**.3369**
Stddev	.0004	.0003	3.3	.076	.41	.063	.0002	.0045	.0045	.0087
%RSD	.2425	.1355	1.274	1.186	1.190	1.237	7.304	1.548	2.301	2.594
#1	.1489	.2472	261.4	6.415	34.23	5.082	.0026	.2988	.1984	.3426
#2	.1488	.2476	266.6	6.498	35.04	5.176	.0024	.2929	.1977	.3413
#3	.1495	.2469	260.4	6.346	34.51	5.056	.0023	.2899	.1903	.3269

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0143**	**-.0035**	**5.518**	**.0121**	**.0641**	**5.046**	**-.0034**	**.2339**	**.5879**
Stddev	.0003	.0002	.129	.0011	.0009	.008	.0005	.0004	.0147
%RSD	2.406	6.818	2.340	8.902	1.429	.1591	14.72	.1758	2.495
#1	.0141	-.0037	5.609	.0123	.0641	5.037	-.0033	.2335	.5965
#2	.0147	-.0033	5.575	.0131	.0650	5.053	-.0030	.2343	.5962
#3	.0140	-.0035	5.370	.0110	.0632	5.049	-.0039	.2338	.5710

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**8131.9**	**38834.**	**5644.1**
Stddev	160.0	22.	58.9
%RSD	1.9676	.05692	1.0435
#1	8025.2	38857.	5690.8
#2	8054.5	38812.	5578.0
#3	8315.8	38834.	5663.7

Sample Name: L1848428-09,T Acquired: 12/7/2018 0:04:38 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0009**	**83.62**	**.0957**	**.0041**	**.3962**	**.0060**	**.0034**	**7.505**	**.0043**	**.1154**
Stddev	.0001	.39	.0014	.0004	.0020	.0000	.0001	.023	.0001	.0017
%RSD	10.56	.4688	1.464	9.006	.5095	.4255	4.032	.3031	2.911	1.480
#1	.0008	83.23	.0948	.0043	.3945	.0060	.0033	7.487	.0043	.1164
#2	.0009	84.02	.0973	.0037	.3984	.0060	.0035	7.530	.0044	.1163
#3	.0009	83.61	.0949	.0044	.3955	.0059	.0035	7.497	.0041	.1134

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1351**	**.2432**	**248.7**	**6.419**	**28.22**	**5.089**	**.0027**	**.2896**	**.1735**	**.6966**
Stddev	.0010	.0018	1.1	.041	.23	.020	.0001	.0022	.0027	.0122
%RSD	.7054	.7365	.4474	.6307	.8009	.3922	2.153	.7537	1.534	1.746
#1	.1340	.2414	247.9	6.373	28.02	5.073	.0026	.2883	.1749	.7031
#2	.1357	.2449	250.0	6.451	28.47	5.111	.0027	.2885	.1752	.7040
#3	.1355	.2434	248.2	6.432	28.18	5.083	.0026	.2922	.1705	.6825

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0144**	**-.0032**	**5.150**	**.0184**	**.0697**	**5.169**	**-.0063**	**.2268**	**.6702**
Stddev	.0015	.0010	.088	.0015	.0001	.033	.0010	.0017	.0093
%RSD	10.47	29.43	1.710	8.028	.1702	.6394	15.09	.7602	1.388
#1	.0139	-.0034	5.206	.0191	.0696	5.136	-.0056	.2254	.6753
#2	.0161	-.0041	5.196	.0195	.0697	5.202	-.0074	.2287	.6758
#3	.0132	-.0022	5.049	.0167	.0698	5.168	-.0060	.2262	.6594

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**8255.5**	**39506.**	**5689.3**
Stddev	123.2	184.	31.8
%RSD	1.4929	.46520	.55917
#1	8177.0	39679.	5710.5
#2	8192.0	39313.	5652.7
#3	8397.6	39527.	5704.7

Sample Name: L1849009-01,T Acquired: 12/7/2018 0:09:29 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0011**	**37.40**	**.4420**	**.0409**	**.6593**	**.0031**	**.1452**	**22.23**	**.0291**	**.1435**
Stddev	.0003	.27	.0042	.0020	.0038	.0000	.0009	.18	.0003	.0019
%RSD	23.90	.7287	.9509	4.771	.5739	.1522	.6476	.8250	.9492	1.312
#1	.0012	37.21	.4467	.0415	.6572	.0031	.1463	22.04	.0293	.1450
#2	.0008	37.27	.4408	.0425	.6570	.0031	.1448	22.24	.0293	.1441
#3	.0012	37.71	.4385	.0387	.6637	.0031	.1445	22.41	.0288	.1414

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8874**	**1.751**	**1332.**	**3.727**	**12.14**	**7.706**	**.0254**	**2.038**	**.6957**	**2.023**
Stddev	.0067	.014	13.	.028	.12	.045	.0005	.008	.0079	.025
%RSD	.7598	.8165	.9385	.7408	1.016	.5876	1.910	.3799	1.135	1.251
#1	.8919	1.758	1322.	3.744	12.06	7.671	.0260	2.031	.7020	2.042
#2	.8907	1.760	1346.	3.696	12.07	7.690	.0252	2.037	.6984	2.032
#3	.8797	1.735	1327.	3.742	12.28	7.757	.0252	2.047	.6868	1.994

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0978**	**-.0205**	**7.584**	**1.162**	**.1599**	**2.249**	**.0043**	**.2552**	**1.751**
Stddev	.0007	.0027	.092	.015	.0007	.014	.0026	.0022	.020
%RSD	.6706	13.24	1.216	1.279	.4322	.6301	61.13	.8752	1.162
#1	.0979	-.0214	7.662	1.175	.1598	2.256	.0013	.2565	1.767
#2	.0984	-.0226	7.607	1.166	.1592	2.258	.0064	.2565	1.758
#3	.0971	-.0174	7.482	1.146	.1606	2.233	.0052	.2526	1.728

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7089.7**	**35587.**	**5298.6**
Stddev	83.7	214.	48.2
%RSD	1.1804	.60175	.90947
#1	7016.2	35457.	5333.6
#2	7072.0	35470.	5318.6
#3	7180.8	35834.	5243.7

Sample Name: L1849009-02,T Acquired: 12/7/2018 0:14:24 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0016**	**70.09**	**.0394**	**.0216**	**.4356**	**.0035**	**.0009**	**9.242**	**.0013**	**.0239**
Stddev	.0003	.13	.0005	.0002	.0021	.0001	.0008	.015	.0001	.0008
%RSD	17.85	.1871	1.212	.7359	.4842	2.805	92.55	.1628	3.978	3.161
#1	.0019	70.24	.0397	.0216	.4379	.0034	.0011	9.253	.0013	.0244
#2	.0014	70.03	.0396	.0218	.4351	.0036	.0016	9.225	.0013	.0244
#3	.0015	70.00	.0388	.0215	.4337	.0034	-.0000	9.248	.0012	.0231

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0835**	**.4208**	**81.71**	**4.603**	**15.09**	**.9457**	**.0043**	**1.664**	**.0561**	**.6506**
Stddev	.0010	.0046	.16	.039	.06	.0013	.0003	.012	.0016	.0160
%RSD	1.164	1.103	.1982	.8405	.3889	.1345	8.041	.7449	2.815	2.467
#1	.0829	.4208	81.86	4.640	15.05	.9457	.0046	1.677	.0569	.6584
#2	.0846	.4255	81.54	4.563	15.15	.9469	.0045	1.661	.0571	.6612
#3	.0830	.4162	81.73	4.606	15.06	.9444	.0039	1.653	.0543	.6321

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0043**	**-.0006**	**5.272**	**.0230**	**.0920**	**2.100**	**-.0010**	**.1384**	**.3767**
Stddev	.0009	.0019	.141	.0012	.0001	.023	.0005	.0014	.0096
%RSD	21.28	318.0	2.670	5.016	.1405	1.078	50.59	1.038	2.537
#1	.0035	-.0002	5.347	.0237	.0921	2.102	-.0015	.1387	.3818
#2	.0053	-.0027	5.359	.0236	.0919	2.121	-.0005	.1397	.3826
#3	.0040	.0011	5.109	.0216	.0919	2.076	-.0009	.1368	.3657

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7865.1**	**37661.**	**5407.6**
Stddev	161.0	351.	2.0
%RSD	2.0469	.93095	.03684
#1	7775.5	37647.	5406.6
#2	7768.9	37318.	5409.8
#3	8051.0	38019.	5406.2

Sample Name: L1849009-03,T Acquired: 12/7/2018 0:19:16 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0007**	**70.09**	**.0245**	**.0133**	**.2119**	**.0030**	**-.0055**	**3.781**	**.0016**	**.0387**
Stddev	.0004	.22	.0014	.0006	.0008	.0000	.0003	.028	.0000	.0009
%RSD	50.74	.3072	5.631	4.185	.3722	.9122	4.893	.7447	2.003	2.351
#1	-.0004	69.84	.0260	.0131	.2112	.0030	-.0056	3.748	.0016	.0392
#2	-.0011	70.20	.0234	.0139	.2127	.0030	-.0058	3.795	.0016	.0393
#3	-.0005	70.23	.0240	.0128	.2117	.0030	-.0052	3.799	.0015	.0376

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0899**	**.0337**	**110.8**	**5.686**	**20.16**	**1.169**	**.0018**	**1.690**	**.0476**	**.0680**
Stddev	.0002	.0003	.3	.015	.12	.003	.0000	.009	.0013	.0040
%RSD	.1736	.8887	.2448	.2567	.5928	.2785	2.575	.5196	2.767	5.886
#1	.0901	.0334	110.5	5.669	20.06	1.165	.0019	1.680	.0484	.0706
#2	.0899	.0340	111.0	5.692	20.29	1.172	.0018	1.694	.0484	.0700
#3	.0898	.0338	110.9	5.697	20.14	1.171	.0018	1.695	.0461	.0634

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0056**	**-.0015**	**5.711**	**.0036**	**.0504**	**5.008**	**-.0021**	**.1667**	**.1937**
Stddev	.0007	.0014	.153	.0002	.0002	.005	.0007	.0003	.0044
%RSD	12.75	98.00	2.682	5.613	.4247	.1016	35.27	.1623	2.285
#1	.0053	-.0024	5.799	.0037	.0503	5.003	-.0018	.1670	.1960
#2	.0064	.0002	5.801	.0038	.0507	5.010	-.0030	.1666	.1966
#3	.0051	-.0022	5.535	.0034	.0504	5.012	-.0016	.1665	.1886

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**8054.1**	**38466.**	**5563.5**
Stddev	175.6	19.	20.5
%RSD	2.1796	.04909	.36780
#1	7957.1	38469.	5581.4
#2	7948.3	38483.	5541.2
#3	8256.7	38445.	5568.0

Sample Name: L1849009-04,T Acquired: 12/7/2018 0:24:08 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0004**	**27.88**	**.0201**	**.0099**	**.1520**	**.0018**	**-.0056**	**4.559**	**.0009**	**.0266**
Stddev	.0002	.22	.0007	.0004	.0020	.0001	.0007	.044	.0000	.0006
%RSD	46.43	.7770	3.436	4.385	1.304	4.281	11.62	.9613	3.272	2.234
#1	-.0007	28.12	.0201	.0104	.1543	.0019	-.0060	4.589	.0009	.0270
#2	-.0003	27.69	.0207	.0096	.1507	.0017	-.0060	4.508	.0009	.0269
#3	-.0004	27.84	.0194	.0097	.1511	.0018	-.0049	4.579	.0009	.0259

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0389**	**.0464**	**46.15**	**4.457**	**10.99**	**.6847**	**.0034**	**.3336**	**.0309**	**.0446**
Stddev	.0004	.0002	.43	.048	.09	.0072	.0002	.0016	.0009	.0004
%RSD	1.104	.4088	.9246	1.065	.7745	1.046	5.408	.4782	2.887	.8889
#1	.0391	.0464	46.61	4.510	11.07	.6930	.0034	.3335	.0314	.0445
#2	.0384	.0462	45.77	4.420	10.90	.6809	.0036	.3353	.0314	.0442
#3	.0392	.0466	46.06	4.440	10.99	.6803	.0032	.3321	.0299	.0450

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0030**	**-.0010**	**3.043**	**.0013**	**.0405**	**1.611**	**-.0004**	**.0771**	**.1334**
Stddev	.0003	.0017	.070	.0004	.0002	.013	.0007	.0008	.0031
%RSD	10.98	167.1	2.297	29.84	.5495	.8296	153.3	1.051	2.304
#1	.0033	-.0026	3.086	.0016	.0408	1.619	.0002	.0775	.1352
#2	.0027	-.0012	3.080	.0009	.0403	1.596	-.0004	.0762	.1350
#3	.0032	.0008	2.962	.0013	.0405	1.620	-.0011	.0776	.1298

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7857.3**	**37637.**	**5355.9**
Stddev	148.6	302.	47.1
%RSD	1.8909	.80270	.87889
#1	7761.5	37424.	5302.1
#2	7781.8	37983.	5389.9
#3	8028.4	37505.	5375.5

Sample Name: L1848674-24,C Acquired: 12/7/2018 0:29:01 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0004**	**.0732**	**.0012**	**.0199**	**.0312**	**.0001**	**-.0010**	**22.47**	**.0004**	**.0025**
Stddev	.0004	.0133	.0004	.0005	.0002	.0001	.0006	.05	.0000	.0001
%RSD	96.75	18.20	29.90	2.723	.7179	151.7	58.38	.2379	5.409	5.411
#1	-.0001	.0578	.0012	.0203	.0312	.0000	-.0011	22.41	.0004	.0026
#2	-.0009	.0815	.0016	.0201	.0309	.0002	-.0004	22.51	.0005	.0026
#3	-.0004	.0801	.0008	.0193	.0314	.0000	-.0015	22.50	.0004	.0024

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0059**	**.1310**	**.9971**	**1.484**	**.2472**	**-.0005**	**158.0**	**.0030**	**.0419**
Stddev	.0003	.0000	.0122	.0279	.005	.0011	.0002	.3	.0001	.0012
%RSD	153.5	.7977	9.333	2.797	.3285	.4329	36.28	.2203	3.202	2.777
#1	.0002	.0060	.1185	.9873	1.480	.2466	-.0004	158.3	.0029	.0421
#2	.0005	.0059	.1315	1.029	1.483	.2465	-.0007	157.6	.0031	.0430
#3	-.0001	.0059	.1429	.9755	1.490	.2484	-.0004	158.1	.0029	.0407

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0012**	**-.0000**	**.3911**	**-.0012**	**.0756**	**.0044**	**-.0001**	**.0002**	**.0879**
Stddev	.0003	.0010	.0151	.0005	.0004	.0005	.0003	.0003	.0025
%RSD	28.10	6500.	3.862	41.08	.5009	11.68	326.2	180.6	2.851
#1	.0013	.0008	.3967	-.0007	.0757	.0048	-.0004	.0006	.0890
#2	.0008	.0004	.4026	-.0014	.0751	.0047	-.0002	-.0000	.0896
#3	.0014	-.0012	.3740	-.0016	.0759	.0038	.0003	-.0000	.0850

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7232.9**	**34005.**	**4887.4**
Stddev	182.6	24.	6.0
%RSD	2.5251	.07044	.12218
#1	7137.5	33982.	4887.3
#2	7117.7	34029.	4893.4
#3	7443.5	34004.	4881.4

Sample Name: L1848674-25,C Acquired: 12/7/2018 0:34:00 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment: 10

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0606**	**.0021**	**.0119**	**.0489**	**.0000**	**-.0007**	**53.28**	**.0005**	**.0023**
Stddev	.0004	.0032	.0009	.0008	.0006	.0000	.0008	.61	.0000	.0001
%RSD	228.4	5.214	45.01	6.832	1.312	28.14	103.3	1.136	4.095	4.749
#1	-.0001	.0575	.0020	.0124	.0496	.0000	-.0013	53.82	.0005	.0022
#2	.0006	.0605	.0031	.0122	.0483	.0000	.0001	52.63	.0005	.0024
#3	-.0000	.0639	.0012	.0109	.0490	.0000	-.0011	53.39	.0005	.0022

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006**	**.0061**	**.0495**	**.9723**	**1.092**	**.2983**	**-.0002**	**161.4**	**.0050**	**.0308**
Stddev	.0003	.0001	.0019	.0140	.007	.0036	.0002	1.6	.0002	.0013
%RSD	48.02	2.146	3.745	1.438	.6362	1.197	63.23	.9778	4.082	4.071
#1	.0007	.0061	.0486	.9823	1.097	.3015	-.0003	162.7	.0052	.0311
#2	.0009	.0060	.0517	.9783	1.084	.2945	-.0001	159.7	.0048	.0319
#3	.0003	.0063	.0483	.9564	1.095	.2990	-.0004	161.9	.0049	.0295

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0012**	**.0012**	**2.782**	**-.0001**	**.1277**	**.0013**	**-.0006**	**.0003**	**.0520**
Stddev	.0012	.0010	.087	.0005	.0010	.0002	.0009	.0001	.0018
%RSD	105.3	81.58	3.131	347.9	.8169	11.64	156.1	41.04	3.513
#1	.0021	.0003	2.842	-.0007	.1285	.0011	-.0010	.0003	.0530
#2	-.0002	.0023	2.823	.0001	.1265	.0014	-.0012	.0004	.0532
#3	.0016	.0010	2.682	.0002	.1279	.0014	.0005	.0002	.0499

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7153.1**	**33953.**	**4849.8**
Stddev	184.9	109.	40.2
%RSD	2.5852	.32031	.82877
#1	7036.1	34035.	4809.3
#2	7056.8	33829.	4889.7
#3	7366.3	33995.	4850.5

Sample Name: CCV Acquired: 12/7/2018 0:39:01 Type: QC
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4946**	**.5430**	**.5021**	**.5026**	**.5239**	**.4852**	**-.0016**	**.5157**	**.4945**	**.4991**
Stddev	.0081	.0115	.0075	.0080	.0019	.0030	.0007	.0094	.0076	.0072
%RSD	1.645	2.115	1.501	1.593	.3697	.6102	44.58	1.817	1.540	1.436
#1	.5035	.5559	.5052	.5057	.5260	.4872	-.0022	.5080	.4972	.5015
#2	.4925	.5337	.5076	.5087	.5223	.4818	-.0008	.5261	.5005	.5048
#3	.4876	.5396	.4935	.4936	.5233	.4865	-.0017	.5129	.4860	.4911
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4927**	**.4955**	F **.5560**	**4.958**	F **.5613**	**.5484**	**.4956**	**10.09**	**.4953**	**.5117**
Stddev	.0082	.0068	.0072	.018	.0075	.0037	.0063	.07	.0082	.0085
%RSD	1.657	1.374	1.289	.3540	1.343	.6806	1.275	.7064	1.654	1.670
#1	.5020	.5028	.5629	4.977	.5686	.5518	.4969	10.14	.4986	.5148
#2	.4895	.4942	.5486	4.953	.5536	.5444	.5012	10.01	.5012	.5183
#3	.4866	.4894	.5564	4.944	.5617	.5489	.4888	10.12	.4859	.5020
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			.5524		.5524					
Low Limit			.4476		.4476					

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5026**	**.4984**	**5.159**	**.4899**	**.4983**	**.4891**	**.4949**	**.5086**	**.4912**
Stddev	.0075	.0057	.074	.0060	.0033	.0083	.0065	.0077	.0075
%RSD	1.485	1.136	1.445	1.231	.6601	1.697	1.316	1.521	1.532
#1	.5048	.5010	5.183	.4907	.5004	.4985	.4968	.5171	.4938
#2	.5088	.5023	5.218	.4955	.4945	.4862	.5002	.5068	.4972
#3	.4944	.4919	5.075	.4835	.5000	.4827	.4876	.5020	.4828
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7481.7**	**35607.**	**5033.1**
Stddev	98.2	435.	36.0
%RSD	1.3129	1.2208	.71496
#1	7444.4	35134.	4994.1
#2	7407.6	35696.	5065.1
#3	7593.1	35990.	5040.0

Sample Name: CCB Acquired: 12/7/2018 0:43:52 Type: QC
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0114**	**-.0001**	**.0003**	**.0003**	**.0001**	**-.0001**	**.0100**	**.0002**	**.0003**
Stddev	.0001	.0026	.0012	.0005	.0000	.0000	.0007	.0065	.0001	.0002
%RSD	36.36	23.13	2027.	155.6	14.16	18.91	668.1	64.65	22.16	48.36
#1	.0004	.0088	.0011	.0007	.0003	.0001	-.0006	.0099	.0002	.0003
#2	.0003	.0114	-.0012	.0004	.0004	.0002	.0007	.0165	.0003	.0005
#3	.0002	.0141	-.0000	-.0002	.0003	.0002	-.0004	.0036	.0002	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0002**	**.0120**	**-.0266**	**.0001**	**-.0000**	**.0005**	**.0153**	**.0003**	**.0008**
Stddev	.0002	.0002	.0028	.0234	.0014	.0003	.0002	.0024	.0001	.0003
%RSD	69.77	118.5	23.16	87.91	1403.	928.8	33.89	15.45	39.42	39.25
#1	.0003	.0001	.0088	-.0536	.0016	-.0000	.0005	.0147	.0004	.0009
#2	.0005	.0004	.0134	-.0144	-.0004	-.0003	.0007	.0179	.0002	.0005
#3	.0001	.0001	.0139	-.0118	-.0010	.0003	.0003	.0133	.0003	.0011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006**	**.0003**	**.0075**	**.0016**	**.0002**	**.0012**	**.0005**	**.0001**	**.0005**
Stddev	.0006	.0018	.0019	.0003	.0001	.0001	.0004	.0002	.0003
%RSD	93.64	693.0	25.25	18.49	44.42	7.737	66.97	240.0	52.88
#1	.0004	.0024	.0080	.0019	.0003	.0013	.0009	.0002	.0004
#2	.0001	-.0007	.0091	.0015	.0002	.0012	.0006	.0000	.0008
#3	.0012	-.0009	.0054	.0013	.0001	.0012	.0002	-.0001	.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7630.4**	**35752.**	**5020.8**
Stddev	286.4	85.	70.5
%RSD	3.7532	.23900	1.4036
#1	7445.2	35658.	4959.0
#2	7485.7	35773.	5006.0
#3	7960.3	35825.	5097.5

Sample Name: L1849009-05,T Acquired: 12/7/2018 0:48:57 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**51.25**	**.0384**	**.0400**	**.2710**	**.0023**	**-.0000**	**18.62**	**.0035**	**.0465**
Stddev	.0002	.25	.0004	.0011	.0013	.0000	.0009	.11	.0001	.0011
%RSD	62.92	.4956	.9293	2.646	.4747	1.331	3460.	.5965	2.670	2.433
#1	.0004	51.01	.0381	.0407	.2698	.0023	-.0011	18.53	.0035	.0473
#2	.0001	51.52	.0383	.0405	.2724	.0023	.0005	18.75	.0035	.0471
#3	.0005	51.21	.0388	.0388	.2708	.0022	.0005	18.60	.0034	.0452

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1730**	**.2242**	**116.1**	**4.052**	**17.58**	**1.094**	**.0263**	**3.934**	**.0750**	**.9258**
Stddev	.0011	.0016	.5	.007	.06	.007	.0005	.014	.0018	.0238
%RSD	.6488	.7007	.4560	.1826	.3192	.6337	2.053	.3606	2.378	2.569
#1	.1743	.2260	115.6	4.056	17.61	1.087	.0267	3.921	.0763	.9412
#2	.1721	.2239	116.7	4.043	17.60	1.101	.0265	3.949	.0757	.9377
#3	.1726	.2229	115.9	4.056	17.51	1.094	.0257	3.931	.0730	.8984

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0057**	**.0001**	**3.596**	**.1715**	**.0882**	**2.639**	**-.0012**	**.2324**	**2.537**
Stddev	.0001	.0008	.096	.0049	.0005	.019	.0008	.0016	.064
%RSD	1.615	1169.	2.669	2.858	.5935	.7184	64.91	.7097	2.504
#1	.0057	.0009	3.660	.1750	.0877	2.660	-.0008	.2341	2.579
#2	.0057	.0000	3.643	.1737	.0888	2.625	-.0020	.2308	2.569
#3	.0056	-.0007	3.486	.1659	.0882	2.632	-.0007	.2322	2.464

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7714.1**	**37053.**	**5388.0**
Stddev	152.4	100.	32.3
%RSD	1.9752	.26863	.60020
#1	7613.1	36938.	5400.7
#2	7639.9	37108.	5351.3
#3	7889.4	37114.	5412.1

Sample Name: L1849009-06,T Acquired: 12/7/2018 0:53:49 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**104.9**	**.0919**	**.0590**	**.6119**	**.0051**	**.0036**	**79.13**	**.0048**	**.0648**
Stddev	.0001	.1	.0023	.0023	.0016	.0000	.0009	.06	.0002	.0018
%RSD	34.43	.0611	2.522	3.897	.2655	.9525	23.59	.0816	3.310	2.757
#1	.0003	104.9	.0933	.0604	.6114	.0051	.0042	79.11	.0049	.0655
#2	.0002	105.0	.0932	.0603	.6137	.0052	.0027	79.07	.0049	.0662
#3	.0004	105.0	.0892	.0564	.6106	.0051	.0040	79.20	.0046	.0628

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1331**	**.2843**	**187.1**	**8.569**	**30.27**	**2.095**	**.0102**	**2.803**	**.1151**	**3.370**
Stddev	.0007	.0003	.2	.028	.07	.007	.0004	.008	.0030	.087
%RSD	.5354	.1124	.1101	.3303	.2397	.3257	4.393	.2763	2.618	2.595
#1	.1324	.2840	186.8	8.539	30.35	2.087	.0105	2.802	.1160	3.406
#2	.1338	.2847	187.2	8.596	30.21	2.097	.0104	2.812	.1176	3.434
#3	.1331	.2843	187.1	8.571	30.24	2.100	.0097	2.797	.1117	3.270

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0137**	**.0014**	**3.774**	**.0415**	**.5356**	**4.368**	**-.0021**	**.2997**	**2.846**
Stddev	.0013	.0015	.103	.0012	.0002	.003	.0008	.0004	.076
%RSD	9.229	112.0	2.729	2.980	.0435	.0754	40.14	.1234	2.662
#1	.0151	.0004	3.809	.0419	.5356	4.365	-.0024	.2995	2.875
#2	.0135	.0006	3.855	.0425	.5353	4.368	-.0027	.2995	2.903
#3	.0126	.0032	3.658	.0401	.5358	4.372	-.0011	.3002	2.760

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7752.7**	**37628.**	**5496.3**
Stddev	171.4	94.	15.8
%RSD	2.2104	.24908	.28672
#1	7681.8	37731.	5482.3
#2	7628.2	37604.	5513.4
#3	7948.2	37548.	5493.3

Sample Name: L1849255-01,T Acquired: 12/7/2018 0:58:41 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0067**	**141.8**	**.2864**	**.1546**	**2.347**	**.0066**	**.0335**	**57.23**	**.0250**	**.1085**
Stddev	.0002	1.9	.0029	.0021	.030	.0000	.0019	.67	.0004	.0014
%RSD	3.093	1.321	1.005	1.372	1.281	.3529	5.758	1.169	1.476	1.302
#1	.0065	142.7	.2874	.1547	2.366	.0066	.0329	57.49	.0251	.1091
#2	.0067	143.1	.2886	.1566	2.364	.0066	.0356	57.73	.0253	.1096
#3	.0069	139.7	.2831	.1524	2.313	.0066	.0319	56.47	.0246	.1069

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5023**	**1.783**	**475.8**	**16.35**	**51.98**	**4.199**	**.0508**	**5.265**	**.3894**	**5.338**
Stddev	.0031	.007	4.2	.19	.20	.044	.0008	.060	.0057	.080
%RSD	.6194	.3820	.8771	1.183	.3878	1.060	1.655	1.140	1.475	1.494
#1	.5029	1.781	471.1	16.43	51.98	4.214	.0509	5.301	.3922	5.366
#2	.4989	1.778	477.7	16.50	52.19	4.234	.0515	5.299	.3931	5.400
#3	.5050	1.791	478.7	16.13	51.78	4.149	.0499	5.196	.3827	5.248

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1439**	**.0125**	**7.775**	**1.653**	**.4869**	**5.599**	**-.0043**	**.4369**	**5.332**
Stddev	.0015	.0019	.105	.026	.0062	.017	.0007	.0019	.081
%RSD	1.072	14.89	1.356	1.580	1.283	.2985	17.23	.4284	1.522
#1	.1439	.0115	7.801	1.663	.4902	5.602	-.0034	.4381	5.362
#2	.1454	.0114	7.865	1.672	.4908	5.582	-.0048	.4347	5.393
#3	.1423	.0147	7.659	1.623	.4797	5.615	-.0045	.4379	5.240

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7622.7**	**37540.**	**5436.7**
Stddev	89.6	92.	43.9
%RSD	1.1757	.24449	.80764
#1	7579.2	37496.	5425.5
#2	7563.1	37646.	5399.5
#3	7725.7	37479.	5485.1

Sample Name: L1849255-02,T Acquired: 12/7/2018 1:03:36 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0084**	**131.1**	**.2241**	**.0721**	**3.547**	**.0078**	**.0288**	**56.40**	**.0396**	**.1098**
Stddev	.0001	1.0	.0036	.0013	.029	.0000	.0007	.33	.0006	.0016
%RSD	1.696	.7809	1.593	1.777	.8113	.5606	2.332	.5825	1.455	1.472
#1	.0084	132.2	.2254	.0724	3.578	.0079	.0295	56.77	.0400	.1106
#2	.0085	130.9	.2268	.0731	3.540	.0078	.0286	56.30	.0398	.1109
#3	.0082	130.2	.2200	.0706	3.522	.0078	.0282	56.13	.0389	.1079

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.3643**	**1.997**	**426.3**	**15.14**	**39.62**	**5.006**	**.0292**	**2.309**	**.2929**	**8.061**
Stddev	.0024	.013	2.9	.09	.27	.030	.0006	.017	.0052	.126
%RSD	.6601	.6471	.6775	.5832	.6779	.5970	2.093	.7303	1.778	1.565
#1	.3625	1.989	429.6	15.24	39.86	5.040	.0294	2.327	.2957	8.129
#2	.3671	2.012	425.2	15.12	39.68	4.993	.0296	2.308	.2961	8.139
#3	.3635	1.991	424.2	15.07	39.33	4.985	.0285	2.293	.2869	7.916

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0622**	**.0084**	**7.910**	**2.124**	**.5367**	**5.049**	**-.0015**	**.4303**	**7.524**
Stddev	.0025	.0002	.123	.037	.0038	.032	.0004	.0027	.114
%RSD	4.025	2.761	1.549	1.732	.7021	.6316	27.04	.6331	1.511
#1	.0650	.0083	7.972	2.146	.5410	5.024	-.0018	.4278	7.592
#2	.0615	.0082	7.990	2.145	.5354	5.085	-.0017	.4332	7.587
#3	.0601	.0087	7.769	2.081	.5338	5.037	-.0011	.4299	7.393

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7655.2**	**37602.**	**5388.7**
Stddev	114.8	191.	40.5
%RSD	1.4996	.50874	.75174
#1	7591.0	37623.	5344.5
#2	7586.8	37401.	5397.4
#3	7787.7	37781.	5424.1

Sample Name: L1849260-01,T Acquired: 12/7/2018 1:08:24 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**111.3**	**.0471**	**.0047**	**.2898**	**.0035**	**.0088**	**39.87**	**.0038**	**.1444**
Stddev	.0003	.9	.0017	.0000	.0028	.0001	.0009	.22	.0001	.0030
%RSD	3702.	.8225	3.515	.5951	.9626	1.586	9.905	.5570	1.728	2.063
#1	.0004	112.3	.0479	.0048	.2925	.0035	.0084	40.11	.0039	.1466
#2	-.0001	110.5	.0482	.0048	.2870	.0035	.0083	39.68	.0038	.1457
#3	-.0003	111.1	.0452	.0047	.2899	.0034	.0098	39.82	.0037	.1410

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2078**	**.3214**	**261.9**	**6.903**	**88.86**	**3.636**	**.0090**	**2.547**	**.2282**	**.0548**
Stddev	.0010	.0015	1.7	.016	.42	.019	.0003	.017	.0045	.0032
%RSD	.4743	.4806	.6427	.2249	.4742	.5317	3.184	.6644	1.971	5.773
#1	.2067	.3197	263.5	6.921	89.07	3.653	.0092	2.567	.2317	.0574
#2	.2087	.3227	260.2	6.895	88.38	3.615	.0091	2.536	.2297	.0558
#3	.2079	.3218	261.9	6.892	89.15	3.640	.0087	2.539	.2231	.0513

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0127**	**-.0026**	**4.621**	**.0068**	**.1981**	**4.639**	**-.0052**	**.4290**	**.5303**
Stddev	.0009	.0017	.108	.0014	.0018	.016	.0001	.0021	.0106
%RSD	6.990	65.82	2.326	20.26	.9103	.3523	2.818	.4796	1.993
#1	.0137	-.0045	4.698	.0082	.2001	4.620	-.0053	.4268	.5375
#2	.0120	-.0014	4.666	.0068	.1967	4.651	-.0050	.4308	.5351
#3	.0125	-.0018	4.498	.0054	.1976	4.645	-.0053	.4296	.5181

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7686.3**	**37209.**	**5364.3**
Stddev	142.5	180.	23.4
%RSD	1.8539	.48476	.43593
#1	7580.7	37400.	5343.5
#2	7629.9	37041.	5389.6
#3	7848.4	37187.	5359.9

Sample Name: L1849298-01,T Acquired: 12/7/2018 1:13:16 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0008**	**154.6**	**.1446**	**.0107**	**.7570**	**.0079**	**-.0092**	**81.75**	**.0062**	**.1383**
Stddev	.0000	.4	.0022	.0004	.0017	.0001	.0011	.19	.0001	.0025
%RSD	4.485	.2861	1.512	3.906	.2245	1.003	11.44	.2283	1.780	1.830
#1	-.0008	155.1	.1458	.0112	.7585	.0078	-.0086	81.93	.0062	.1401
#2	-.0009	154.3	.1460	.0106	.7575	.0080	-.0104	81.77	.0063	.1395
#3	-.0008	154.4	.1421	.0104	.7551	.0078	-.0086	81.56	.0061	.1354

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4440**	**.2397**	**316.3**	**48.33**	**99.34**	**10.68**	**.0283**	**10.53**	**.3546**	**.4809**
Stddev	.0031	.0020	.8	.17	.10	.02	.0006	.03	.0065	.0073
%RSD	.6954	.8206	.2568	.3533	.0975	.2324	2.128	.2420	1.836	1.514
#1	.4466	.2410	317.2	48.52	99.36	10.70	.0288	10.56	.3588	.4848
#2	.4448	.2406	315.7	48.28	99.43	10.65	.0285	10.52	.3578	.4855
#3	.4406	.2374	316.0	48.19	99.24	10.68	.0276	10.51	.3471	.4725

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0145**	**-.0081**	**4.604**	**.0164**	**.1827**	**8.336**	**-.0062**	**.4140**	**.8972**
Stddev	.0010	.0008	.084	.0005	.0002	.024	.0015	.0031	.0163
%RSD	6.806	10.39	1.821	2.791	.1028	.2886	23.93	.7399	1.821
#1	.0156	-.0072	4.655	.0169	.1828	8.362	-.0051	.4156	.9083
#2	.0136	-.0089	4.650	.0160	.1825	8.332	-.0079	.4159	.9049
#3	.0144	-.0083	4.507	.0164	.1828	8.315	-.0056	.4104	.8785

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**8452.4**	**41542.**	**5965.1**
Stddev	128.2	240.	8.1
%RSD	1.5168	.57758	.13643
#1	8365.8	41349.	5957.7
#2	8391.7	41467.	5963.8
#3	8599.7	41811.	5973.8

Sample Name: L1849298-03,T Acquired: 12/7/2018 1:18:14 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0019**	**144.7**	**.2037**	**.0295**	**1.373**	**.0078**	**-.0062**	**38.80**	**.0069**	**.0846**
Stddev	.0001	.6	.0017	.0004	.004	.0001	.0007	.18	.0001	.0010
%RSD	3.430	.4267	.8417	1.496	.3258	1.757	11.65	.4594	1.211	1.227
#1	.0019	145.4	.2048	.0296	1.378	.0079	-.0054	38.98	.0069	.0850
#2	.0020	144.3	.2045	.0299	1.369	.0077	-.0069	38.81	.0070	.0854
#3	.0018	144.4	.2017	.0290	1.372	.0077	-.0063	38.62	.0068	.0834

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1899**	**.5112**	**311.6**	**12.36**	**25.52**	**4.315**	**.0628**	**1.436**	**.1364**	**4.003**
Stddev	.0031	.0073	1.6	.04	.25	.020	.0008	.005	.0015	.050
%RSD	1.649	1.420	.5138	.2858	.9742	.4722	1.308	.3397	1.080	1.255
#1	.1934	.5190	313.5	12.40	25.81	4.338	.0631	1.442	.1372	4.021
#2	.1891	.5099	310.9	12.35	25.35	4.301	.0634	1.432	.1372	4.042
#3	.1873	.5047	310.5	12.34	25.42	4.306	.0619	1.435	.1347	3.947

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0400**	**-.0025**	**7.629**	**1.033**	**.4080**	**10.20**	**-.0089**	**.3194**	**2.133**
Stddev	.0009	.0011	.085	.013	.0022	.06	.0012	.0048	.025
%RSD	2.233	46.37	1.110	1.228	.5285	.5620	13.44	1.506	1.187
#1	.0410	-.0015	7.652	1.036	.4104	10.23	-.0091	.3244	2.143
#2	.0397	-.0037	7.699	1.044	.4068	10.23	-.0076	.3190	2.151
#3	.0393	-.0021	7.535	1.019	.4066	10.13	-.0099	.3148	2.104

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**8656.5**	**42078.**	**5979.2**
Stddev	77.5	482.	20.6
%RSD	.89475	1.1450	.34508
#1	8632.0	41613.	5955.4
#2	8594.3	42046.	5990.8
#3	8743.2	42574.	5991.4

Sample Name: L1848674-26,C Acquired: 12/7/2018 1:23:10 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0001**	**.0624**	**.0015**	**.0072**	**.0410**	**.0001**	**-.0004**	**28.67**	**.0006**	**.0023**
Stddev	.0002	.0083	.0014	.0006	.0009	.0001	.0006	.53	.0000	.0001
%RSD	156.9	13.23	94.86	8.466	2.193	94.31	148.9	1.856	4.956	4.962
#1	.0001	.0531	.0000	.0077	.0400	.0001	-.0002	28.06	.0006	.0024
#2	-.0003	.0689	.0017	.0075	.0418	.0001	.0000	29.04	.0006	.0024
#3	-.0002	.0651	.0028	.0066	.0410	-.0000	-.0011	28.90	.0006	.0022

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0010**	**.0137**	**.0929**	**.7997**	**.6500**	**.2932**	**-.0003**	**158.8**	**.0036**	**.0324**
Stddev	.0001	.0000	.0079	.0446	.0096	.0053	.0001	2.6	.0003	.0010
%RSD	9.509	.1537	8.494	5.576	1.484	1.806	38.55	1.658	6.932	3.229
#1	.0009	.0137	.0843	.7631	.6388	.2874	-.0003	155.9	.0039	.0324
#2	.0011	.0137	.0946	.8494	.6550	.2978	-.0002	161.1	.0035	.0334
#3	.0009	.0137	.0999	.7866	.6561	.2944	-.0004	159.3	.0035	.0313

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0016**	**-.0001**	**.5441**	**.0007**	**.0776**	**.0087**	**-.0005**	**.0003**	**.0863**
Stddev	.0008	.0013	.0224	.0007	.0011	.0008	.0007	.0001	.0029
%RSD	46.03	2134.	4.123	101.2	1.462	9.013	138.0	45.05	3.360
#1	.0025	-.0009	.5576	.0016	.0764	.0095	.0002	.0004	.0878
#2	.0012	.0015	.5565	.0003	.0786	.0081	-.0006	.0001	.0883
#3	.0012	-.0008	.5182	.0003	.0777	.0083	-.0011	.0003	.0830

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7176.1**	**34030.**	**4872.8**
Stddev	241.6	72.	66.6
%RSD	3.3667	.21052	1.3669
#1	7053.7	34026.	4948.6
#2	7020.3	34104.	4823.7
#3	7454.4	33961.	4846.1

Sample Name: L1848674-27,C Acquired: 12/7/2018 1:28:09 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0003**	**.0873**	**.0015**	**.0083**	**.0472**	**.0001**	**-.0006**	**28.27**	**.0006**	**.0023**
Stddev	.0006	.0063	.0003	.0005	.0007	.0001	.0009	.15	.0000	.0001
%RSD	177.7	7.169	19.45	5.933	1.389	96.67	137.9	.5198	4.391	3.143
#1	-.0002	.0848	.0018	.0086	.0479	-.0000	-.0013	28.42	.0006	.0023
#2	.0002	.0827	.0012	.0086	.0470	.0001	.0004	28.26	.0006	.0023
#3	-.0010	.0944	.0017	.0078	.0466	.0001	-.0010	28.13	.0006	.0022

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**.0156**	**.1243**	**.9713**	**.7150**	**.2948**	**-.0004**	**158.3**	**.0035**	**.0513**
Stddev	.0002	.0003	.0027	.0147	.0077	.0038	.0000	1.5	.0001	.0015
%RSD	63.11	1.648	2.188	1.517	1.082	1.276	5.900	.9456	3.853	2.916
#1	.0003	.0155	.1212	.9881	.7201	.2978	-.0004	160.0	.0035	.0512
#2	.0002	.0155	.1253	.9654	.7061	.2960	-.0004	157.7	.0036	.0529
#3	.0007	.0159	.1263	.9604	.7189	.2906	-.0004	157.2	.0033	.0499

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008**	**-.0015**	**1.101**	**.0006**	**.0743**	**.0025**	**-.0001**	**.0004**	**.0851**
Stddev	.0006	.0020	.041	.0001	.0007	.0002	.0010	.0001	.0031
%RSD	76.22	135.2	3.724	25.47	.8825	8.392	734.7	26.68	3.586
#1	.0001	.0008	1.126	.0005	.0750	.0024	-.0004	.0003	.0867
#2	.0011	-.0025	1.122	.0005	.0742	.0027	-.0009	.0005	.0870
#3	.0012	-.0028	1.053	.0007	.0737	.0024	.0010	.0003	.0816

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7221.4**	**33890.**	**4773.6**
Stddev	221.0	145.	14.4
%RSD	3.0608	.42827	.30238
#1	7086.8	33988.	4757.7
#2	7100.8	33958.	4777.3
#3	7476.4	33723.	4785.8

Sample Name: L1848674-28,C Acquired: 12/7/2018 1:33:09 Type: Unk
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment: 10

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0002**	**.0675**	**-.0006**	**.0081**	**.0429**	**.0000**	**-.0010**	**23.57**	**.0006**	**.0022**
Stddev	.0002	.0055	.0006	.0005	.0004	.0000	.0005	.09	.0000	.0001
%RSD	95.04	8.158	98.62	6.545	.8460	90.53	48.04	.3866	6.670	5.592
#1	-.0002	.0664	-.0006	.0085	.0426	.0000	-.0013	23.62	.0005	.0022
#2	-.0000	.0625	-.0000	.0084	.0427	.0000	-.0005	23.63	.0006	.0024
#3	-.0005	.0734	-.0012	.0075	.0433	.0000	-.0013	23.47	.0006	.0022

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0124**	**.0628**	**.7648**	**.6441**	**.2709**	**-.0006**	**157.1**	**.0031**	**.0416**
Stddev	.0003	.0003	.0022	.0206	.0018	.0021	.0002	.2	.0001	.0003
%RSD	153.1	2.249	3.507	2.690	.2719	.7786	38.25	.1357	4.272	.6629
#1	.0004	.0123	.0644	.7880	.6461	.2730	-.0008	157.2	.0031	.0414
#2	-.0001	.0122	.0638	.7486	.6428	.2709	-.0004	157.3	.0032	.0419
#3	.0003	.0127	.0603	.7580	.6433	.2688	-.0005	156.9	.0030	.0416

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0011**	**.0006**	**.6838**	**-.0008**	**.0664**	**.0014**	**.0001**	**.0003**	**.0806**
Stddev	.0008	.0009	.0135	.0002	.0002	.0001	.0007	.0002	.0015
%RSD	66.71	148.8	1.971	26.93	.2908	6.984	515.6	75.06	1.909
#1	.0020	.0017	.6895	-.0007	.0664	.0015	-.0007	.0004	.0812
#2	.0009	.0003	.6936	-.0011	.0666	.0013	.0004	.0000	.0817
#3	.0005	-.0001	.6684	-.0007	.0662	.0015	.0007	.0004	.0788

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7177.0**	**33819.**	**4778.0**
Stddev	132.4	312.	11.2
%RSD	1.8453	.92368	.23514
#1	7111.2	33983.	4790.9
#2	7090.5	34014.	4771.5
#3	7329.5	33458.	4771.5

Sample Name: CCV Acquired: 12/7/2018 1:38:08 Type: QC
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4899**	**.5390**	**.4992**	**.5009**	**.5239**	**.4884**	**-.0022**	**.5160**	**.4931**	**.4976**
Stddev	.0032	.0061	.0041	.0054	.0021	.0021	.0005	.0022	.0056	.0051
%RSD	.6466	1.138	.8153	1.078	.4104	.4254	22.55	.4300	1.130	1.023
#1	.4882	.5361	.5025	.5052	.5262	.4908	-.0026	.5185	.4978	.5016
#2	.4880	.5349	.5006	.5027	.5233	.4876	-.0022	.5147	.4944	.4993
#3	.4936	.5461	.4947	.4949	.5221	.4870	-.0017	.5147	.4869	.4919
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4834**	**.4866**	F **.5701**	**5.022**	F **.5721**	F **.5573**	**.4937**	**10.11**	**.4948**	**.5103**
Stddev	.0020	.0034	.0054	.050	.0029	.0045	.0055	.06	.0050	.0051
%RSD	.4193	.6907	.9438	.9898	.5138	.8074	1.110	.5490	1.005	.9936
#1	.4822	.4850	.5751	5.080	.5752	.5625	.4984	10.17	.4988	.5143
#2	.4823	.4843	.5709	4.996	.5693	.5544	.4950	10.09	.4963	.5121
#3	.4857	.4905	.5644	4.992	.5716	.5550	.4877	10.06	.4892	.5046
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			.5524		.5524	.5524				
Low Limit			.4476		.4476	.4476				

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5013**	**.4964**	**5.152**	**.4881**	**.4992**	**.4849**	**.4948**	**.5025**	**.4890**
Stddev	.0045	.0048	.054	.0050	.0030	.0031	.0052	.0036	.0060
%RSD	.9007	.9697	1.055	1.030	.6001	.6470	1.052	.7256	1.227
#1	.5048	.5010	5.196	.4916	.5027	.4839	.5004	.5017	.4938
#2	.5029	.4967	5.169	.4904	.4978	.4823	.4939	.4993	.4910
#3	.4962	.4914	5.091	.4823	.4972	.4884	.4901	.5065	.4823
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7493.7**	**36031.**	**4913.0**
Stddev	84.4	234.	28.3
%RSD	1.1266	.65001	.57578
#1	7433.5	36143.	4880.4
#2	7457.3	36188.	4927.7
#3	7590.2	35762.	4930.9

Sample Name: CCB Acquired: 12/7/2018 1:42:59 Type: QC
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0172**	**-.0002**	**.0004**	**.0004**	**.0002**	**.0003**	**.0062**	**.0003**	**.0003**
Stddev	.0002	.0064	.0005	.0003	.0001	.0000	.0006	.0114	.0000	.0001
%RSD	247.7	37.25	245.0	84.06	14.07	29.51	213.8	184.0	12.45	17.42
#1	.0002	.0228	-.0007	.0007	.0003	.0002	.0008	.0178	.0003	.0004
#2	.0001	.0186	.0003	.0004	.0004	.0002	.0004	.0056	.0003	.0003
#3	-.0001	.0102	-.0002	.0001	.0004	.0001	-.0004	-.0049	.0002	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**-.0001**	**.0129**	**-.0100**	**.0036**	**.0003**	**.0006**	**.0226**	**.0003**	**.0002**
Stddev	.0002	.0001	.0027	.0378	.0025	.0003	.0002	.0060	.0002	.0009
%RSD	57.20	161.3	20.56	377.8	68.92	89.97	37.30	26.69	74.64	517.9
#1	.0001	.0000	.0106	.0214	.0029	.0005	.0009	.0238	.0001	-.0009
#2	.0003	-.0002	.0124	-.0520	.0016	.0000	.0006	.0160	.0005	.0006
#3	.0004	-.0000	.0158	.0006	.0064	.0004	.0004	.0279	.0003	.0009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0016**	**-.0004**	**.0101**	**.0026**	**.0003**	**.0010**	**.0008**	**-.0001**	**.0005**
Stddev	.0003	.0015	.0014	.0006	.0000	.0003	.0008	.0002	.0000
%RSD	20.48	389.5	13.85	21.72	11.15	30.29	95.02	256.7	9.002
#1	.0019	.0011	.0113	.0028	.0003	.0013	.0014	-.0002	.0005
#2	.0016	-.0003	.0104	.0031	.0003	.0007	.0011	.0000	.0005
#3	.0012	-.0020	.0086	.0020	.0003	.0012	-.0001	.0001	.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7626.7**	**35996.**	**4949.3**
Stddev	239.7	88.	70.4
%RSD	3.1433	.24328	1.4217
#1	7512.6	35950.	5030.6
#2	7465.3	35941.	4910.7
#3	7902.1	36097.	4906.8

Sample Name: .005 Acquired: 12/7/2018 1:48:05 Type: QC
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0043**	**.0067**	W **.0038**	**.0028**	**.0054**	**.0049**	**.0050**	**.0069**	**.0048**	**.0050**
Stddev	.0001	.0132	.0011	.0004	.0001	.0002	.0005	.0108	.0002	.0002
%RSD	3.350	196.1	27.41	15.48	1.771	3.186	10.64	156.5	3.412	3.373
#1	.0045	.0219	.0035	.0032	.0054	.0050	.0055	-.0047	.0049	.0051
#2	.0042	.0004	.0050	.0024	.0053	.0050	.0049	.0088	.0049	.0051
#3	.0043	-.0021	.0030	.0028	.0055	.0047	.0045	.0166	.0046	.0048
Check ?	Chk Pass	None	Chk Warn	None	None	Chk Pass	None	None	Chk Pass	None
High Limit			.0060							
Low Limit			.0040							

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0048**	**.0046**	**.0064**	**.0114**	**.0051**	**.0048**	**.0044**	**.0073**	**.0048**	**.0049**
Stddev	.0001	.0001	.0022	.0306	.0033	.0003	.0002	.0014	.0001	.0005
%RSD	1.698	1.517	34.33	268.5	64.30	6.852	3.985	19.41	1.430	10.05
#1	.0049	.0046	.0089	-.0010	.0078	.0046	.0045	.0088	.0048	.0050
#2	.0047	.0046	.0050	.0463	.0015	.0052	.0045	.0073	.0049	.0054
#3	.0047	.0045	.0052	-.0111	.0059	.0046	.0042	.0059	.0048	.0044
Check ?	None	None	None	None	None	None	None	None	None	None
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0048**	**.0038**	**.0076**	**.0035**	**.0052**	**.0049**	**.0045**	**.0047**	**.0048**
Stddev	.0003	.0012	.0009	.0004	.0001	.0002	.0011	.0001	.0002
%RSD	5.412	30.66	12.02	11.98	1.888	3.929	24.58	1.074	4.274
#1	.0049	.0050	.0081	.0039	.0052	.0050	.0055	.0048	.0049
#2	.0045	.0027	.0082	.0037	.0053	.0051	.0033	.0047	.0050
#3	.0050	.0036	.0066	.0031	.0052	.0047	.0048	.0047	.0046
Check ?	None	None	None	None	None	None	None	None	None
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7627.2**	**36152.**	**4943.3**
Stddev	235.3	264.	108.6
%RSD	3.0847	.73098	2.1963
#1	7482.4	35977.	4852.1
#2	7500.5	36023.	4914.5
#3	7898.7	36456.	5063.4

Sample Name: .01 Acquired: 12/7/2018 1:53:09 Type: QC
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0088**	**.0203**	**.0087**	**.0099**	**.0103**	**.0100**	**.0093**	**.0197**	**.0098**	**.0100**
Stddev	.0005	.0077	.0006	.0003	.0001	.0001	.0003	.0083	.0003	.0004
%RSD	5.174	38.07	6.414	3.464	.5601	.7011	3.020	42.20	2.994	3.750
#1	.0085	.0130	.0088	.0103	.0103	.0100	.0093	.0114	.0100	.0102
#2	.0094	.0194	.0092	.0098	.0103	.0101	.0096	.0280	.0100	.0102
#3	.0087	.0284	.0081	.0096	.0102	.0099	.0090	.0196	.0095	.0096
Check ?	None	None	Chk Pass	Chk Pass	Chk Pass	None	None	None	None	Chk Pass
Value										
Range										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0104**	**.0100**	**.0142**	**.0617**	**.0103**	**.0106**	**.0093**	**-.0002**	**.0098**	**.0102**
Stddev	.0002	.0003	.0032	.0146	.0008	.0001	.0003	.0053	.0002	.0006
%RSD	1.578	2.929	22.36	23.70	7.877	.8013	3.592	2326.	2.260	5.541
#1	.0103	.0099	.0161	.0534	.0101	.0107	.0096	.0012	.0099	.0099
#2	.0106	.0104	.0160	.0786	.0112	.0105	.0094	-.0061	.0099	.0097
#3	.0104	.0099	.0105	.0531	.0096	.0106	.0090	.0042	.0096	.0108
Check ?	Chk Pass	Chk Pass	None	None	None	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
Value										
Range										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0093**	**.0088**	**.0053**	W **.0070**	**.0105**	**.0097**	**.0097**	**.0099**	**.0100**
Stddev	.0006	.0005	.0012	.0006	.0004	.0003	.0004	.0004	.0003
%RSD	6.759	5.561	23.47	7.954	3.711	2.871	4.488	3.581	3.012
#1	.0095	.0083	.0060	.0076	.0106	.0099	.0095	.0096	.0102
#2	.0099	.0091	.0060	.0068	.0108	.0094	.0102	.0103	.0102
#3	.0087	.0091	.0039	.0065	.0101	.0097	.0093	.0099	.0097
Check ?	None	Chk Pass	None	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value				.0121					
Range				.0080					

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7643.4**	**35865.**	**4916.5**
Stddev	210.3	487.	34.4
%RSD	2.7516	1.3570	.69868
#1	7508.8	36154.	4927.3
#2	7535.6	35303.	4878.1
#3	7885.8	36139.	4944.2

Sample Name: .05 Acquired: 12/7/2018 1:58:12 Type: QC
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0471	.0540	.0457	.0486	.0517	.0489	.0488	.0523	.0487	.0494
Stddev	.0004	.0084	.0008	.0013	.0009	.0005	.0010	.0062	.0011	.0011
%RSD	.8800	15.61	1.745	2.589	1.680	1.064	2.104	11.84	2.216	2.206
#1	.0474	.0625	.0455	.0494	.0527	.0495	.0496	.0590	.0493	.0501
#2	.0473	.0539	.0466	.0492	.0513	.0486	.0493	.0468	.0494	.0499
#3	.0466	.0456	.0450	.0471	.0512	.0486	.0477	.0510	.0475	.0482
Check ?	None	Chk Pass	None	None	None	None	None	Chk Pass	None	None
Value										
Range										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0486	.0491	.0588	2.352	.0548	.0541	.0485	1.968	.0491	.0495
Stddev	.0005	.0007	.0036	.037	.0014	.0008	.0011	.038	.0012	.0011
%RSD	.9651	1.464	6.166	1.593	2.467	1.468	2.308	1.914	2.507	2.149
#1	.0485	.0496	.0592	2.395	.0538	.0548	.0491	2.011	.0497	.0507
#2	.0491	.0494	.0550	2.335	.0563	.0543	.0493	1.945	.0500	.0492
#3	.0482	.0483	.0622	2.326	.0542	.0532	.0472	1.948	.0477	.0486
Check ?	None	None	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass	None	None
Value										
Range										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0471	.0478	.4898	.0443	.0512	.0487	.0483	.0487	.0489
Stddev	.0012	.0019	.0108	.0012	.0006	.0006	.0016	.0004	.0011
%RSD	2.589	3.897	2.201	2.683	1.091	1.255	3.265	.8414	2.209
#1	.0483	.0494	.4945	.0451	.0518	.0491	.0502	.0490	.0494
#2	.0470	.0483	.4975	.0450	.0510	.0490	.0475	.0489	.0497
#3	.0459	.0458	.4775	.0430	.0508	.0480	.0473	.0482	.0477
Check ?	Chk Pass	None	Chk Pass	None	None	None	None	None	Chk Pass
Value									
Range									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	7593.9	36126.	4892.7
Stddev	150.1	344.	43.3
%RSD	1.9763	.95355	.88497
#1	7511.6	35955.	4843.3
#2	7503.0	35900.	4924.0
#3	7767.1	36522.	4910.8

Sample Name: ICSA Acquired: 12/7/2018 2:03:07 Type: QC
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**278.7**	**-.0012**	**.0063**	**.0003**	**.0004**	**.0084**	**265.7**	**.0009**	**.0002**
Stddev	.0001	4.6	.0009	.0004	.0002	.0001	.0009	4.6	.0000	.0000
%RSD	31.83	1.647	77.88	6.163	61.86	18.33	10.71	1.724	2.930	15.06
#1	.0004	276.9	-.0022	.0059	.0003	.0004	.0094	264.7	.0009	.0002
#2	.0006	283.9	-.0006	.0066	.0001	.0005	.0076	270.7	.0010	.0002
#3	.0003	275.2	-.0007	.0062	.0004	.0004	.0082	261.7	.0009	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0017**	**.0006**	**110.7**	**-.0544**	F **306.0**	**-.0005**	**-.0015**	**.0871**	**.0037**	**-.0168**
Stddev	.0007	.0002	1.9	.0210	2.9	.0004	.0002	.0040	.0002	.0038
%RSD	39.03	33.41	1.682	38.70	.9367	87.95	12.15	4.599	5.892	22.74
#1	.0011	.0006	110.1	-.0734	306.2	-.0010	-.0013	.0906	.0036	-.0140
#2	.0017	.0008	112.8	-.0580	308.8	-.0002	-.0016	.0880	.0035	-.0212
#3	.0025	.0004	109.2	-.0317	303.1	-.0002	-.0016	.0828	.0039	-.0153
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					301.2					
Low Limit					198.8					

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0093**	**-.0004**	**.0066**	**.0007**	**.0056**	**.0005**	**-.0018**	**.0062**	**.0034**
Stddev	.0028	.0012	.0016	.0004	.0002	.0002	.0012	.0002	.0002
%RSD	30.23	291.3	24.51	57.12	3.653	38.94	66.76	2.440	7.099
#1	.0077	.0010	.0079	.0003	.0054	.0005	-.0031	.0063	.0036
#2	.0077	-.0010	.0070	.0008	.0058	.0008	-.0007	.0060	.0032
#3	.0126	-.0012	.0048	.0011	.0058	.0003	-.0015	.0063	.0033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**6903.9**	**32915.**	**4651.5**
Stddev	158.2	173.	65.3
%RSD	2.2913	.52570	1.4030
#1	6795.5	32738.	4662.8
#2	6830.9	33083.	4581.4
#3	7085.5	32925.	4710.5

Sample Name: ICSAB Acquired: 12/7/2018 2:08:12 Type: QC
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0000	F .0546	F -.0008	F .0002	F .0000	F .0001	.0004	F .0573	F .0001	F .0002
Stddev	.0002	.0072	.0003	.0003	.0003	.0000	.0012	.0070	.0000	.0001
%RSD	3262.	13.15	34.08	128.8	1856.	64.13	308.5	12.19	62.54	48.03
#1	.0002	.0477	-.0005	.0000	-.0004	.0001	.0003	.0539	.0001	.0001
#2	-.0000	.0620	-.0010	.0001	.0002	.0001	.0016	.0654	.0001	.0001
#3	-.0001	.0541	-.0009	.0005	.0002	.0000	-.0007	.0527	.0000	.0002
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	None	Chk Fail	Chk Fail	Chk Fail
High Limit	.3614	10.84	1.205	.6024	.3614	.1205		54.22	.3614	.3614
Low Limit	.2386	7.157	.7952	.3976	.2386	.0795		35.78	.2386	.2386

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0007	F .0000	F .0566	F -.0203	F .0401	F .0001	F -.0005	F .0125	F .0003	F .0009
Stddev	.0000	.0003	.0047	.0190	.0014	.0006	.0001	.0024	.0000	.0007
%RSD	6.771	759.3	8.312	93.64	3.528	435.0	20.74	19.04	12.54	79.93
#1	.0007	-.0001	.0570	-.0416	.0385	.0005	-.0006	.0134	.0003	.0017
#2	.0006	.0004	.0610	-.0052	.0412	-.0006	-.0004	.0098	.0003	.0009
#3	.0007	-.0002	.0517	-.0140	.0405	.0005	-.0006	.0142	.0004	.0002
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit	.3614	.3614	45.18	24.10	27.11	.2410	.3614	9.036	.3614	1.205
Low Limit	.2386	.2386	29.82	15.90	17.89	.1590	.2386	5.964	.2386	.7952

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0010	F -.0003	F .0049	F -.0011	F .0001	F -.0003	F .0002	F -.0000	F .0078
Stddev	.0004	.0010	.0006	.0007	.0001	.0002	.0001	.0001	.0003
%RSD	40.27	413.0	12.05	66.91	97.27	71.57	65.35	2594.	3.341
#1	.0007	.0009	.0052	-.0018	.0001	-.0002	.0001	-.0001	.0079
#2	.0014	-.0006	.0053	-.0004	.0000	-.0002	.0002	-.0000	.0079
#3	.0009	-.0011	.0042	-.0011	.0003	-.0005	.0004	.0001	.0075
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit	1.205	.6024	1.482	1.205	1.205	1.205	1.205	.3614	.3614
Low Limit	.7952	.3976	.9781	.7952	.7952	.7952	.7952	.2386	.2386

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	7624.0	35996.	4798.1
Stddev	231.9	183.	69.8
%RSD	3.0415	.50765	1.4543
#1	7482.3	35862.	4748.2
#2	7498.1	35922.	4768.2
#3	7891.6	36204.	4877.8

Sample Name: CRI Acquired: 12/7/2018 2:13:18 Type: QC
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0025	F .0722	F .0008	F .0006	F .0034	F .0008	.0014	F .0668	F .0008	F .0073
Stddev	.0001	.0042	.0009	.0002	.0003	.0001	.0001	.0123	.0000	.0003
%RSD	4.904	5.774	116.3	34.68	7.745	13.61	9.359	18.36	5.914	3.806
#1	.0025	.0731	.0015	.0006	.0031	.0007	.0015	.0604	.0009	.0074
#2	.0027	.0677	-.0002	.0007	.0036	.0009	.0014	.0809	.0008	.0076
#3	.0024	.0759	.0009	.0004	.0035	.0009	.0012	.0590	.0008	.0070
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	None	Chk Fail	Chk Fail	Chk Fail
High Limit	.0261	.5219	.0261	.1305	.0522	.0130		.5219	.0130	.1305
Low Limit	.0139	.2781	.0139	.0695	.0278	.0070		.2781	.0070	.0695

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0018	F .0039	F .0399	F .3247	F .0490	F .0035	F .0069	F .3789	F .0068	F .0035
Stddev	.0002	.0001	.0016	.0292	.0011	.0007	.0004	.0035	.0004	.0001
%RSD	9.531	3.329	3.897	9.003	2.277	19.51	6.320	.9217	6.616	4.106
#1	.0016	.0038	.0386	.3554	.0483	.0028	.0071	.3778	.0070	.0037
#2	.0019	.0039	.0417	.3216	.0485	.0036	.0072	.3829	.0071	.0035
#3	.0018	.0040	.0395	.2972	.0503	.0042	.0064	.3761	.0063	.0034
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit	.0261	.0652	.2610	6.524	.5219	.0391	.1305	6.524	.1044	.0587
Low Limit	.0139	.0348	.1390	3.476	.2781	.0209	.0695	3.476	.0556	.0313

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F .0079	F .0009	F .0693	F -.0002	F .0017	F .0015	F .0014	F .0072	F .0116
Stddev	.0004	.0010	.0029	.0002	.0002	.0001	.0008	.0001	.0005
%RSD	4.649	105.4	4.226	128.5	11.46	8.802	61.66	1.770	4.444
#1	.0082	.0001	.0707	.0001	.0018	.0013	.0011	.0073	.0119
#2	.0080	.0006	.0712	-.0003	.0018	.0015	.0023	.0072	.0119
#3	.0075	.0020	.0659	-.0002	.0015	.0016	.0007	.0071	.0110
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit	.1305	.0261	1.305	.0261	.0261	.0261	.0261	.1305	.0522
Low Limit	.0695	.0139	.6952	.0139	.0139	.0139	.0139	.0695	.0278

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	7612.7	36002.	4889.7
Stddev	226.5	113.	70.9
%RSD	2.9751	.31479	1.4498
#1	7490.6	35880.	4960.0
#2	7473.5	36022.	4818.2
#3	7874.1	36104.	4890.8

Sample Name: CCV Acquired: 12/7/2018 2:18:24 Type: QC
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4923**	**.5257**	**.4955**	**.4989**	**.5201**	**.4824**	**-.0022**	**.5066**	**.4901**	**.4957**
Stddev	.0097	.0153	.0093	.0077	.0016	.0027	.0003	.0056	.0081	.0079
%RSD	1.960	2.917	1.881	1.534	.3169	.5676	13.33	1.096	1.659	1.593
#1	.5035	.5356	.5003	.5036	.5220	.4856	-.0019	.5111	.4953	.5001
#2	.4868	.5080	.5015	.5031	.5192	.4807	-.0021	.5083	.4943	.5004
#3	.4867	.5334	.4848	.4901	.5192	.4810	-.0025	.5004	.4808	.4866
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4931**	**.4963**	F **.5612**	**4.960**	F **.5736**	**.5452**	**.4927**	**10.01**	**.4914**	**.5082**
Stddev	.0099	.0105	.0020	.013	.0064	.0048	.0071	.05	.0072	.0080
%RSD	2.009	2.110	.3553	.2690	1.108	.8845	1.440	.5283	1.463	1.576
#1	.5046	.5084	.5634	4.952	.5774	.5508	.4971	10.07	.4961	.5144
#2	.4876	.4898	.5604	4.976	.5663	.5425	.4965	9.969	.4951	.5111
#3	.4873	.4908	.5597	4.954	.5772	.5424	.4845	9.998	.4832	.4992
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit			.5524		.5524					
Low Limit			.4476		.4476					

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5020**	**.4955**	**5.122**	**.4868**	**.4937**	**.4875**	**.4914**	**.5074**	**.4865**
Stddev	.0078	.0063	.074	.0078	.0029	.0103	.0082	.0106	.0084
%RSD	1.557	1.264	1.453	1.594	.5856	2.112	1.673	2.093	1.729
#1	.5069	.4988	5.170	.4903	.4970	.4993	.4954	.5197	.4916
#2	.5062	.4995	5.160	.4923	.4926	.4805	.4968	.5007	.4911
#3	.4930	.4883	5.036	.4780	.4916	.4827	.4819	.5019	.4768
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	**7486.3**	**35464.**	**4917.6**
Stddev	103.1	633.	25.8
%RSD	1.3773	1.7851	.52423
#1	7413.6	34733.	4895.0
#2	7441.0	35841.	4945.7
#3	7604.3	35818.	4912.0

Sample Name: CCB Acquired: 12/7/2018 2:23:14 Type: QC
Method: Trace 6_E200.7_SW6010(v116) Mode: CONC Corr. Factor: 1.000000
User: AB Custom ID1: WG1186224 Custom ID2: Trace 6 Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	B_2089	Ba4554	Be3130	Bi2230	Ca3158	Cd2144	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0113	-.0002	-.0001	.0005	.0002	.0001	.0066	.0003	.0004
Stddev	.0001	.0076	.0009	.0005	.0002	.0001	.0007	.0090	.0000	.0000
%RSD	22.68	67.20	405.3	949.7	32.92	38.57	735.4	136.7	9.336	5.622
#1	.0003	.0159	.0003	.0000	.0004	.0001	.0008	-.0035	.0003	.0003
#2	.0004	.0154	.0003	.0004	.0004	.0003	.0002	.0137	.0003	.0004
#3	.0004	.0025	-.0012	-.0006	.0007	.0002	-.0007	.0096	.0003	.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Cr2677	Cu3247	Fe2599	K_7664	Mg2790	Mn2576R	Mo2020	Na5895	Ni2316	Pb2203
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0001	.0147	-.0185	.0052	-.0001	.0005	.0093	.0003	.0007
Stddev	.0002	.0002	.0016	.0091	.0004	.0007	.0002	.0039	.0002	.0010
%RSD	206.4	175.2	11.02	49.26	8.041	807.6	43.53	41.37	49.36	152.8
#1	.0002	.0002	.0147	-.0196	.0057	.0007	.0007	.0053	.0005	.0018
#2	.0003	-.0001	.0131	-.0270	.0052	-.0002	.0006	.0130	.0002	.0003
#3	-.0001	.0002	.0164	-.0089	.0048	-.0007	.0003	.0097	.0004	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit										
Low Limit										

Elem	Sb2068	Se1960	Si2124	Sn1899	Sr4215	Ti3349A	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012	-.0003	.0015	.0013	.0002	.0006	.0006	.0003	.0004
Stddev	.0003	.0015	.0017	.0005	.0002	.0002	.0006	.0001	.0001
%RSD	23.73	512.6	114.9	38.10	86.85	33.59	106.9	25.49	15.33
#1	.0010	.0006	.0028	.0018	.0000	.0006	.0003	.0004	.0005
#2	.0010	.0006	.0022	.0010	.0002	.0007	.0002	.0002	.0005
#3	.0015	-.0021	-.0005	.0009	.0003	.0004	.0013	.0003	.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Int. Std.	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S
Avg	7659.3	35868.	4888.1
Stddev	291.2	37.	37.8
%RSD	3.8020	.10286	.77432
#1	7478.7	35909.	4925.4
#2	7503.8	35837.	4889.2
#3	7995.2	35858.	4849.7

QC True Values: Trace 4,5,6,7

	Element	True Value (mg/L)
ICV/CCV	All	0.50
	K	5.00
	Na	10.00
	Si	5.25
ICSA	Al	250
	Ca	250
	Fe	100
	Mg	250
ICSB	Al	9.00
	Sb	1.00
	As	1.00
	Ba	0.30
	Be	0.10
	Bi	1.00
	B	0.50
	Cd	0.30
	Ca	45.00
	Cr	0.30
	Co	0.30
	Cu	0.30
	Fe	37.50
	Pb	1.00
	Mg	22.50
	Mn	0.20
	Mo	0.30
	Ni	0.30
	K	20.00
	Se	0.50
	Si	1.23
	Ag	0.30
	Na	7.50
	Sr	1.00
	Tl	1.00
	Sn	1.00
	Ti	1.00
	V	0.30
	Zn	0.30

	Element	True Value (mg/L)
CRI	Al	0.40
	Sb	0.10
	As	0.02
	Ba	0.04
	Be	0.01
	Bi	0.02
	B	0.10
	Cd	0.01
	Ca	0.40
	Cr	0.02
	Co	0.10
	Cu	0.05
	Fe	0.20
	Pb	0.05
	Mg	0.40
	Mn	0.03
	Mo	0.10
	Ni	0.08
	K	5.00
	Se	0.02
	Si	1.00
	Ag	0.02
	Na	5.00
	Sr	0.02
	Tl	0.02
	Sn	0.02
	Ti	0.02
	V	0.10
	Zn	0.04

LCS & MS Spike Concentrations

Element	Liquid concentrations (mg/L)	Soil concentrations (mg/kg)
Al	2.00	100
Sb	0.50	25.0
As	0.12	6.0
Ba	2.00	100
Be	0.05	2.5
Bi	1.00	50.0
B	1.00	50.0
Cd	0.05	2.55
Ca	10.00	500
Cr	0.20	10.0
Co	0.50	25.0
Cu	0.25	12.5
Fe	1.00	50.0
Pb	0.51	25.5
Mg	10.00	500
Mn	0.50	25.0
Mo	1.00	50.0
Ni	0.50	25.0
K	10.00	500
Se	0.12	6.0
Si	1.00	50.0
Ag	0.05	2.5
Na	10.00	500
Sr	1.00	50.0
Tl	0.12	6.0
Sn	1.00	50.0
Ti	1.00	50.0
V	0.50	25.0
Zn	0.50	25.0

LCS and MS Spike Concentrations—As of 08/09/2011

Element	Liquid Concentration(mg/L)	Soil Concentration (mg/kg)
Al	2.00	160
Sb	0.50	40
As	0.12	9.6
Ba	2.00	160
Be	0.05	4.0
Bi	1.00	80
B	1.00	80
Cd	0.051	4.08
Ca	10.0	800
Cr	0.20	16
Co	0.50	40
Cu	0.25	20
Fe	1.00	80
Pb	0.51	40.8
Mg	10.0	800
Mn	0.50	40
Mo	1.00	80
Ni	0.50	40
K	10.0	800
Se	0.12	9.6
Si	1.00	80
Ag	0.05	24
Na	10.0	800
Sr	1.00	80
Tl	0.12	9.6
Sn	1.00	80
Ti	1.00	80
V	0.50	40
Zn	0.50	40

Revised 8/9/11 Soil spike is based on (2x water spike)x(50/1.25), where 50 is the final volume of soil digestate and 1.25 is the nominal digestion weight of 1.25g, except in the case of Ag, where additional Ag is added to the spike.

ERA
A Waters Company

Reference Materials

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D098-540
Certificate Issue Date: June 29, 2017
Expiration Date: January 31, 2021
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value[6]	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	7900	6.50	3690 - 12100	3070 - 12700
Antimony	184	98.5	1.64	6.37 - 191	18.4 - 253
Arsenic	178	166	7.85	138 - 194	117 - 215
Barium	228	213	9.52	175 - 251	156 - 270
Beryllium	61.3	58.0	8.37	48.3 - 67.7	42.5 - 73.6
Boron	91.7	69.1	2.22	49.0 - 89.3	41.5 - 101
Cadmium	143	129	6.88	106 - 151	94.2 - 163
Calcium	5190	4720	6.81	3840 - 5590	3420 - 6010
Chromium	107	101	9.05	83.5 - 120	70.5 - 132
Cobalt	71.4	68.4	8.06	57.4 - 79.5	50.9 - 86.0
Copper	116	110	7.37	91.9 - 128	81.9 - 138
Iron	15000	14100	10.5	8510 - 19700	4950 - 23300
Lead	210	203	8.99	167 - 238	151 - 254
Magnesium	2570	2290	4.81	1730 - 2850	1420 - 3160
Manganese	383	370	5.74	304 - 436	280 - 460
Mercury	23.7	12.8	1.59	6.40 - 19.1	6.56 - 26.1
Molybdenum	38.8	32.4	6.16	25.5 - 39.2	20.3 - 44.4
Nickel	95.4	87.1	6.86	71.8 - 102	62.6 - 112
Potassium	2420	1990	6.19	1380 - 2610	1160 - 2830
Selenium	130	117	6.86	91.8 - 141	77.0 - 156
Silver	91.4	86.6	8.22	69.3 - 104	58.4 - 115
Sodium	690	621	6.19	458 - 785	338 - 904
Strontium	59.1	59.6	10.0	48.9 - 70.3	41.5 - 77.6
Thallium	156	142	9.14	114 - 169	96.6 - 187

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▪ Certificate of Analysis ▪

Parameter	Certified Value[1]	Reference Value[6]	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	151	135	6.93	106 - 165	80.1 - 191
Titanium	450	336	3.79	65.5 - 606	69.8 - 601
Uranium	110	109	7.77	83.0 - 135	75.4 - 143
Vanadium	104	97.0	8.44	76.9 - 117	63.1 - 131
Zinc	254	240	4.89	194 - 286	170 - 311

ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	7900	78.2	149	-	-
Antimony	184	98.5	53.5	156	-	-
Arsenic	178	166	93.3	192	-	-
Barium	228	213	93.4	165	-	-
Beryllium	61.3	58.0	94.6	165	-	-
Boron	91.7	69.1	75.4	108	-	-
Cadmium	143	129	89.9	189	-	-
Calcium	5190	4720	90.9	131	-	-
Chromium	107	101	94.9	184	-	-
Cobalt	71.4	68.4	95.9	154	-	-
Copper	116	110	94.6	183	-	-
Iron	15000	14100	93.9	144	-	-
Lead	210	203	96.5	200	-	-
Magnesium	2570	2290	89.1	137	-	-
Manganese	383	370	96.6	158	-	-
Mercury	23.7	12.8	53.8	128	-	-
Molybdenum	38.8	32.4	83.5	154	-	-
Nickel	95.4	87.1	91.3	184	-	-
Potassium	2420	1990	82.4	131	-	-
Selenium	130	117	89.7	179	-	-

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Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Silver	91.4	86.6	94.8	158	-	-
Sodium	690	621	90.0	125	-	-
Strontium	59.1	59.6	101	93	-	-
Thallium	156	142	90.8	161	-	-
Tin	151	135	89.6	109	-	-
Titanium	450	336	74.6	104	-	-
Uranium	110	109	99.2	31	-	-
Vanadium	104	97.0	93.3	153	-	-
Zinc	254	240	94.6	182	-	-

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▪ Certificate of Analysis ▪

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)**are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.
Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. The **Reference Values** are equal to the mean recoveries for the parameters as determined in an interlaboratory round robin study. The **Reference Values** represent the expected performance for the analytes in this standard. ERA recommends using the **Reference Values** when assessing or evaluating your results.

7. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Brian Miller

Quality Officer

Patrick Larson

Pat Larson

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D102-540
Certificate Issue Date: June 22, 2018
Expiration Date: January 31, 2022
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8160	6.36	3960 - 12400	4080 - 12200
Antimony	120	60.9	9.42	0.822 - 121	12.0 - 166
Arsenic	144	135	5.08	112 - 158	94.6 - 176
Barium	469	443	6.77	366 - 521	332 - 554
Beryllium	207	197	5.86	164 - 229	148 - 246
Boron	213	174	12.6	127 - 221	105 - 244
Cadmium	224	204	6.65	169 - 240	153 - 256
Calcium	5190	4830	9.12	3950 - 5700	3510 - 6150
Chromium	138	132	8.56	109 - 155	92.2 - 171
Cobalt	182	179	7.93	151 - 207	134 - 224
Copper	191	184	6.72	155 - 213	138 - 230
Iron	15000	14400	10.7	8770 - 20000	5120 - 23600
Lead	225	216	7.72	178 - 254	159 - 274
Magnesium	2570	2340	6.13	1780 - 2900	1460 - 3230
Manganese	331	323	6.71	266 - 380	242 - 404
Mercury	16.8	13.2	16.0	8.64 - 17.7	7.89 - 18.5
Molybdenum	193	175	2.39	141 - 209	125 - 226
Nickel	163	152	5.95	126 - 178	106 - 197
Potassium	2420	2050	6.31	1440 - 2660	1210 - 2890
Selenium	81.9	74.9	4.13	59.3 - 90.5	47.0 - 103
Silver	57.6	53.9	9.00	43.0 - 64.8	37.8 - 70.0
Sodium	161	149	12.1	111 - 188	57.7 - 241
Strontium	100	96.2	4.04	78.1 - 114	69.0 - 123
Thallium	253	232	3.54	188 - 276	168 - 296

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Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	146	134	10.8	106 - 163	79.5 - 189
Titanium	449	340	7.20	70.2 - 609	44.9 - 711
Uranium	114	113	7.10	85.5 - 140	71.9 - 153
Vanadium	180	172	8.85	137 - 207	126 - 218
Zinc	217	211	6.58	171 - 250	147 - 274

ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8160	80.8	138	-	-
Antimony	120	60.9	50.8	135	-	-
Arsenic	144	135	93.8	184	-	-
Barium	469	443	94.5	158	-	-
Beryllium	207	197	95.0	148	-	-
Boron	213	174	81.8	107	-	-
Cadmium	224	204	91.3	199	-	-
Calcium	5190	4830	93.0	122	-	-
Chromium	138	132	95.5	172	-	-
Cobalt	182	179	98.4	140	-	-
Copper	191	184	96.3	183	-	-
Iron	15000	14400	95.6	133	-	-
Lead	225	216	96.2	204	-	-
Magnesium	2570	2340	91.2	122	-	-
Manganese	331	323	97.6	147	-	-
Mercury	16.8	13.2	78.3	128	-	-
Molybdenum	193	175	90.8	143	-	-
Nickel	163	152	93.1	185	-	-
Potassium	2420	2050	84.7	121	-	-
Selenium	81.9	74.9	91.5	163	-	-

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Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Silver	57.6	53.9	93.6	150	-	-
Sodium	161	149	92.8	105	-	-
Strontium	100	96.2	96.2	90	-	-
Thallium	253	232	91.6	147	-	-
Tin	146	134	92.0	100	-	-
Titanium	449	340	75.6	93	-	-
Uranium	114	113	98.8	35	-	-
Vanadium	180	172	95.4	139	-	-
Zinc	217	211	97.0	180	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

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3. The **QC Performance Acceptance Limits (QC PALs™)**are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.
Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Quality Officer

Matthew Seebeck

ISO/IEC GUIDE 34:2009 ACCREDITED REFERENCE MATERIAL PRODUCER CERTIFICATE NO. 1539.03

ISO/IEC 17025:2005 ACCREDITED CHEMICAL TESTING LABORATORY CERTIFICATE NO. 1539.02

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Calculation of 6010B Metals

Aqueous Samples

The instrument will calculate the concentration (µg/L). This value is divided by 1000 to convert the units to mg/L. If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

$$\text{Result, mg/L} = C_s \times (1\text{mg}/1000\mu\text{g}) \times (DF)$$

Where:

C_s = Concentration of sample (µg/L)

DF = Dilution Factor

Soil or Solid Samples

Soil samples are calculated as follows:

$$\text{Result, mg/Kg} = \frac{C_s \times (1\text{mg}/1000\mu\text{g}) \times (DF)}{A}$$

Where:

C_s = Concentration of sample (µg/L)

DF = Dilution Factor

$$A = \frac{\text{Sample weight (grams)}}{\text{Final Volume (mL)}}$$

Dry weight correction

Dry weight correction is calculated as follows:

$$\text{Final concentration in mg/Kg, dry weight} = \frac{\text{Result, mg/Kg}}{\%_{solids}}$$

Where:

$\%_{solids}$ = Percent Solids, as a decimal value

Trace5
12/05/18

REVIEWED
By drm at 10:20 am, Dec 06, 2018

3	12/5/2018	12:31:12PM	Std 0	AB
4	12/5/2018	12:35:50PM	ICAL	AB
5	12/5/2018	12:40:12PM	Std Al Fe K Na Si	AB
6	12/5/2018	12:44:48PM	Std Ca Mg Si	AB
7	12/5/2018	12:49:39PM	ICV	AB
8	12/5/2018	12:55:32PM	ICB	AB
9	12/5/2018	1:01:21PM	ICV	AB
10	12/5/2018	1:05:47PM	ICB	AB
11	12/5/2018	1:10:27PM	0.005	AB
12	12/5/2018	1:15:02PM	0.01	AB
13	12/5/2018	1:19:38PM	0.05	AB
14	12/5/2018	1:24:10PM	IPC	AB
15	12/5/2018	1:28:45PM	ICSA	AB
16	12/5/2018	1:35:32PM	CCV	AB
17	12/5/2018	1:39:58PM	CCB	AB
18	12/5/2018	1:50:41PM	10 V	AB
19	12/5/2018	2:02:18PM	IPC	AB
20	12/5/2018	2:06:52PM	0.05	AB
21	12/5/2018	2:20:47PM	CCV	AB
22	12/5/2018	2:25:13PM	CCB	AB
23	12/5/2018	2:30:35PM	Std 0	AB
24	12/5/2018	2:35:13PM	ICAL	AB
25	12/5/2018	2:39:36PM	Std Al Fe K Na Si	AB
26	12/5/2018	2:44:11PM	Std Ca Mg Si	AB
27	12/5/2018	2:48:48PM	ICV	AB
28	12/5/2018	2:53:14PM	ICB	AB
29	12/5/2018	3:00:29PM	WG1185574-1,T	AB
30	12/5/2018	3:05:07PM	IPC	AB
31	12/5/2018	3:09:42PM	WG1185574-2,T	AB
32	12/5/2018	3:14:08PM	WG1185574-3,T	AB
33	12/5/2018	3:18:35PM	L1848767-01,T	AB
34	12/5/2018	3:23:12PM	L1848767-02,T	AB
35	12/5/2018	3:27:51PM	L1848767-03,T	AB
36	12/5/2018	3:32:30PM	L1848767-04,T	AB
37	12/5/2018	3:37:07PM	L1848767-05,T	AB
38	12/5/2018	3:41:42PM	L1848767-06,T	AB
39	12/5/2018	3:46:18PM	CCV	AB
40	12/5/2018	3:50:43PM	CCB	AB
41	12/5/2018	3:55:23PM	L1848767-07,T	AB
42	12/5/2018	3:59:58PM	L1848767-08,T	AB
43	12/5/2018	4:04:34PM	L1848767-09,T	AB
44	12/5/2018	4:09:10PM	L1848767-10,T	AB
45	12/5/2018	4:13:46PM	L1848767-11,T	AB
46	12/5/2018	4:18:22PM	L1848767-12,T	AB
47	12/5/2018	4:23:00PM	L1848767-13,T	AB
48	12/5/2018	4:27:38PM	L1848767-14,T	AB
49	12/5/2018	4:32:16PM	L1848767-15,T	AB
50	12/5/2018	4:36:54PM	L1848767-16,T	AB
51	12/5/2018	4:41:32PM	CCV	AB
52	12/5/2018	4:45:57PM	CCB	AB
53	12/5/2018	4:50:37PM	WG1185573-1,T	AB
54	12/5/2018	4:55:14PM	L1848767-17,T	AB
55	12/5/2018	4:59:49PM	L1848767-18,T	AB
56	12/5/2018	5:04:24PM	L1848767-19,T	AB
57	12/5/2018	5:09:00PM	L1848767-20,T	AB
58	12/5/2018	5:13:36PM	WG1185573-2,T	AB
59	12/5/2018	5:18:02PM	WG1185573-3,T	AB
60	12/5/2018	5:22:28PM	L1848760-01,T	AB
61	12/5/2018	5:27:05PM	L1848760-02,T	AB
62	12/5/2018	5:31:42PM	L1848760-03,T	AB
63	12/5/2018	5:36:21PM	CCV	AB
64	12/5/2018	5:40:47PM	CCB	AB
65	12/5/2018	5:45:28PM	L1848760-04,T	AB
66	12/5/2018	5:50:06PM	L1848760-05,T	AB
67	12/5/2018	5:54:42PM	L1848760-06,T	AB
68	12/5/2018	5:59:16PM	L1848760-07,T	AB
69	12/5/2018	6:03:51PM	L1848760-08,T	AB
70	12/5/2018	6:08:28PM	L1848760-09,T	AB
71	12/5/2018	6:13:03PM	L1848760-10,T	AB
72	12/5/2018	6:17:39PM	L1848760-11,T	AB
73	12/5/2018	6:22:15PM	L1848760-12,T	AB
74	12/5/2018	6:26:52PM	L1848760-13,T	AB
75	12/5/2018	6:31:29PM	CCV	AB
76	12/5/2018	6:35:55PM	CCB	AB
77	12/5/2018	6:40:36PM	L1848760-14,T	AB
78	12/5/2018	6:45:15PM	L1848760-15,T	AB
79	12/5/2018	6:49:54PM	L1848760-16,T	AB
80	12/5/2018	6:54:30PM	L1848760-17,T	AB
81	12/5/2018	6:59:08PM	L1848760-18,T	AB

82	12/5/2018	7:03:43PM	L1848760-19,T	AB
83	12/5/2018	7:08:17PM	L1848760-20,T	AB
84	12/5/2018	7:50:03PM	CCV	AB
85	12/5/2018	7:54:29PM	CCB	AB
86	12/5/2018	8:01:27PM	WG1185933-1,S	AB
87	12/5/2018	8:06:05PM	WG1185933-2,S	AB
88	12/5/2018	8:10:30PM	L1848771-01,S	AB
89	12/5/2018	8:15:02PM	WG1185933-3,S	AB
90	12/5/2018	8:19:27PM	WG1185933-4,S	AB
91	12/5/2018	8:23:59PM	WG1185933-5,S	AB
92	12/5/2018	8:28:25PM	L1848771-02,S	AB
93	12/5/2018	8:33:01PM	L1848771-03,S	AB
94	12/5/2018	8:37:38PM	L1848771-04,S	AB
95	12/5/2018	8:42:14PM	WG1185933-6,S,5	AB
96	12/5/2018	8:46:50PM	CCV	AB
97	12/5/2018	8:51:17PM	CCB	AB
98	12/5/2018	8:55:57PM	L1848771-05,S	AB
99	12/5/2018	9:00:31PM	L1848771-06,S	AB
100	12/5/2018	9:05:07PM	L1848771-07,S	AB
101	12/5/2018	9:09:45PM	L1848771-08,S	AB
102	12/5/2018	9:14:21PM	L1848771-10,S	AB
103	12/5/2018	9:18:57PM	L1848771-11,S	AB
104	12/5/2018	9:23:34PM	L1848771-12,S	AB
105	12/5/2018	9:37:04PM	CCV	AB
106	12/5/2018	9:41:29PM	CCB	AB
107	12/5/2018	10:00:54PM	Std 0	AB
108	12/5/2018	10:05:31PM	ICAL	AB
109	12/5/2018	10:09:54PM	Std Al Fe K Na Si	AB
110	12/5/2018	10:14:30PM	Std Ca Mg Si	AB
111	12/5/2018	10:19:07PM	ICV	AB
112	12/5/2018	10:23:34PM	ICB	AB
113	12/5/2018	11:41:07PM	WG1186031-1,T	AB
114	12/5/2018	11:45:47PM	WG1186031-2,T,2	AB
115	12/5/2018	11:50:10PM	L1849060-03,T,2	AB
116	12/5/2018	11:54:46PM	WG1186031-3,T,2	AB
117	12/5/2018	11:59:21PM	WG1186031-4,T,2	AB
118	12/6/2018	12:03:54AM	WG1186031-5,T,2	AB
119	12/6/2018	12:08:28AM	L1849398-01,T,2	AB
120	12/6/2018	12:12:59AM	WG1186031-6,T,10	AB
121	12/6/2018	12:17:29AM	XL1801099-01,C	AB
122	12/6/2018	12:22:09AM	XL1801099-02,C	AB
123	12/6/2018	12:26:49AM	CCV	AB
124	12/6/2018	12:31:15AM	CCB	AB
125	12/6/2018	12:35:55AM	L1849088-01,T	AB
126	12/6/2018	12:40:42AM	L1849088-02,T	AB
127	12/6/2018	12:45:28AM	L1849088-03,T	AB
128	12/6/2018	12:50:15AM	L1849088-04,T	AB
129	12/6/2018	12:54:59AM	L1849060-02,T,2	AB
130	12/6/2018	12:59:33AM	L1849060-04,T,2	AB
131	12/6/2018	1:04:16AM	L1849060-05,T,2	AB
132	12/6/2018	1:08:50AM	L1849060-06,T,2	AB
133	12/6/2018	1:13:26AM	XL1801099-03,C	AB
134	12/6/2018	1:18:05AM	XL1801099-04,C	AB
135	12/6/2018	1:22:45AM	CCV	AB
136	12/6/2018	1:27:11AM	CCB	AB
137	12/6/2018	1:31:51AM	WG1186031-2,T,2	AB
138	12/6/2018	1:36:15AM	L1849088-05,T	AB
139	12/6/2018	1:41:01AM	L1849088-06,T	AB
140	12/6/2018	1:45:46AM	L1849088-07,T	AB
141	12/6/2018	1:50:30AM	L1849088-08,T	AB
142	12/6/2018	1:55:17AM	L1849088-09,T	AB
143	12/6/2018	2:00:04AM	L1849088-10,T	AB
144	12/6/2018	2:04:49AM	L1849088-12,T	AB
145	12/6/2018	2:09:32AM	XL1801099-05,C	AB
146	12/6/2018	2:14:11AM	XL1801099-06,C	AB
147	12/6/2018	2:18:50AM	CCV	AB
148	12/6/2018	2:23:16AM	CCB	AB
149	12/6/2018	2:27:56AM	L1849088-13,T	AB
150	12/6/2018	2:32:42AM	L1849088-14,T	AB
151	12/6/2018	2:37:35AM	L1849088-18,T	AB
152	12/6/2018	2:42:20AM	L1849060-02,T,20	AB
153	12/6/2018	2:46:50AM	L1849060-05,T,20	AB
154	12/6/2018	2:51:20AM	.005	AB
155	12/6/2018	2:55:57AM	.01	AB
156	12/6/2018	3:02:09AM	CCV	AB
157	12/6/2018	3:06:34AM	CCB	AB
158	12/6/2018	3:11:15AM	.05	AB
159	12/6/2018	3:15:48AM	ICSA	AB
160	12/6/2018	3:20:27AM	ICSAB	AB
161	12/6/2018	3:25:09AM	CRI	AB
162	12/6/2018	3:29:49AM	CCV	AB
163	12/6/2018	3:34:15AM	CCB	AB

4	12/6/2018	8:00:31AM	Std 0	mc
5	12/6/2018	8:05:33AM	Std 1 ICAL	mc
6	12/6/2018	8:10:17AM	Std 3 25 Fe K Na Si	mc
7	12/6/2018	8:15:18AM	Std 2 10 Ca Mg Si	mc
8	12/6/2018	8:20:20AM	ICV	mc
9	12/6/2018	8:25:11AM	ICB	mc
10	12/6/2018	8:33:40AM	ICV	mc
11	12/6/2018	8:38:31AM	ICB	mc
12	12/6/2018	8:43:34AM	0.005	LC
13	12/6/2018	8:48:34AM	0.01	LC
14	12/6/2018	8:53:34AM	0.05	LC
15	12/6/2018	8:58:27AM	IPC	LC
16	12/6/2018	9:03:27AM	ICSA	LC
17	12/6/2018	9:08:32AM	XICSAB	LC
18	12/6/2018	9:15:26AM	CCV	LC
19	12/6/2018	9:20:17AM	CCB	LC
20	12/6/2018	9:41:54AM	0.005	LC
21	12/6/2018	10:33:31AM	CCV	LC
22	12/6/2018	10:38:21AM	CCB	LC
23	12/6/2018	11:10:42AM	CCV	LC
24	12/6/2018	11:15:33AM	CCB	LC
25	12/6/2018	11:20:38AM	WG1186068-1,T	LC
26	12/6/2018	11:25:42AM	L1849479-09,T	LC
27	12/6/2018	11:30:45AM	WG1186068-2,T	LC
28	12/6/2018	11:35:33AM	L1849096-01,T	LC
29	12/6/2018	11:40:34AM	WG1186068-3,T	LC
30	12/6/2018	11:45:22AM	WG1186068-4,T	LC
31	12/6/2018	11:50:23AM	WG1186068-5,T	LC
32	12/6/2018	11:55:12AM	WG1186068-6,T,5	LC
33	12/6/2018	12:00:14PM	L1849096-02,T	LC
34	12/6/2018	12:05:13PM	L1849096-03,T	LC
35	12/6/2018	12:10:15PM	CCV	LC
36	12/6/2018	12:15:06PM	CCB	LC
37	12/6/2018	12:25:52PM	WG1186261-1,C	LC
38	12/6/2018	12:31:04PM	WG1186261-2,C	LC
39	12/6/2018	12:35:59PM	L1849440-01,C	LC
40	12/6/2018	12:41:06PM	WG1186261-3,C	LC
41	12/6/2018	12:46:02PM	WG1186261-4,C	LC
42	12/6/2018	12:51:09PM	WG1186261-5,C	LC
43	12/6/2018	12:56:04PM	WG1186261-6,C,5	LC
44	12/6/2018	1:01:06PM	WG1186274-1,C	LC
45	12/6/2018	1:06:17PM	WG1186274-2,C	LC
46	12/6/2018	1:11:12PM	L1849479-01,C	LC
47	12/6/2018	1:16:20PM	CCV	LC
48	12/6/2018	1:21:09PM	CCB	LC
49	12/6/2018	1:26:15PM	WG1186274-3,C	LC
50	12/6/2018	1:31:11PM	WG1186274-4,C	LC
51	12/6/2018	1:36:18PM	WG1186274-5,C	LC
52	12/6/2018	1:41:14PM	WG1186274-6,C,5	LC
53	12/6/2018	1:46:15PM	L1849254-01,C	LC
54	12/6/2018	1:51:24PM	L1849479-02,C	LC
55	12/6/2018	1:56:33PM	L1849479-03,C	LC
56	12/6/2018	2:01:42PM	L1849518-01,C	LC
57	12/6/2018	2:06:50PM	L1849518-02,C	LC
58	12/6/2018	2:11:57PM	L1849518-03,C	LC
59	12/6/2018	2:18:13PM	CCV	LC
60	12/6/2018	2:23:04PM	CCB	LC
61	12/6/2018	2:28:08PM	L1849096-04,T	LC
62	12/6/2018	2:33:07PM	L1849096-05,T	LC
63	12/6/2018	2:38:06PM	L1849096-06,T	LC
64	12/6/2018	2:43:06PM	L1849096-07,T	LC
65	12/6/2018	2:48:06PM	L1849096-08,T	LC
66	12/6/2018	2:53:05PM	L1849096-09,T	LC
67	12/6/2018	2:58:06PM	L1849096-10,T	LC
68	12/6/2018	3:03:07PM	L1849096-11,T	LC
69	12/6/2018	3:08:11PM	WG1186031-2,T,8	LC
70	12/6/2018	3:12:59PM	L1848674-10,C	AB
71	12/6/2018	3:18:08PM	CCV	AB
72	12/6/2018	3:22:59PM	CCB	AB
73	12/6/2018	3:28:33PM	XL1847354-02,T,2	AB
74	12/6/2018	3:33:38PM	CCV	AB
75	12/6/2018	3:38:29PM	CCB	AB
76	12/6/2018	3:43:33PM	WG1186025-1,T	AB
77	12/6/2018	3:48:35PM	WG1186025-2,T,2	AB
78	12/6/2018	3:53:19PM	WG1186025-3,T,2	AB
79	12/6/2018	3:58:04PM	L1849087-01,T	AB
80	12/6/2018	4:02:55PM	L1849087-02,T	AB

REVIEWED
By drm at 9:00 am, Dec 07, 2018

81	12/6/2018	4:07:46PM	L1849087-03,T	AB
82	12/6/2018	4:12:37PM	L1849087-04,T	AB
83	12/6/2018	4:17:33PM	L1849087-05,T	AB
84	12/6/2018	4:22:29PM	L1848674-11,C	AB
85	12/6/2018	4:27:36PM	MIX Scan	AB
86	12/6/2018	4:32:35PM	CCV	AB
87	12/6/2018	4:37:25PM	CCB	AB
88	12/6/2018	4:42:29PM	L1848674-12,C	AB
89	12/6/2018	4:47:39PM	L1849087-06,T	AB
90	12/6/2018	4:52:36PM	L1849087-07,T	AB
91	12/6/2018	4:57:25PM	L1849087-08,T	AB
92	12/6/2018	5:02:15PM	L1849087-09,T	AB
93	12/6/2018	5:07:06PM	L1849087-10,T	AB
94	12/6/2018	5:11:56PM	L1849087-11,T	AB
95	12/6/2018	5:16:55PM	L1849087-12,T	AB
96	12/6/2018	5:21:46PM	L1848674-13,C	AB
97	12/6/2018	5:26:53PM	L1848674-14,C	AB
98	12/6/2018	5:32:01PM	CCV	AB
99	12/6/2018	5:36:51PM	CCB	AB
100	12/6/2018	5:41:55PM	WG1186025-2,T,8	AB
101	12/6/2018	5:46:45PM	WG1186025-3,T,8	AB
102	12/6/2018	5:51:34PM	L1849087-13,T	AB
103	12/6/2018	5:56:30PM	L1849087-14,T	AB
104	12/6/2018	6:01:19PM	L1849322-01,T	AB
105	12/6/2018	6:06:09PM	L1849377-01,T	AB
106	12/6/2018	6:11:05PM	L1849481-01,T	AB
107	12/6/2018	6:15:59PM	L1849481-02,T	AB
108	12/6/2018	6:20:50PM	L1848674-15,C	AB
109	12/6/2018	6:25:56PM	L1848674-16,C	AB
110	12/6/2018	6:31:03PM	CCV	AB
111	12/6/2018	6:35:54PM	CCB	AB
112	12/6/2018	6:48:49PM	XCCV	AB
113	12/6/2018	7:00:16PM	Std 0	AB
114	12/6/2018	7:05:16PM	Std 1 ICAL	AB
115	12/6/2018	7:10:00PM	Std 3 25 Fe K Na Si	AB
116	12/6/2018	7:15:01PM	Std 2 10 Ca Mg Si	AB
117	12/6/2018	7:20:03PM	ICV	AB
118	12/6/2018	7:24:52PM	ICB	AB
119	12/6/2018	7:48:40PM	WG1186024-1,T	AB
120	12/6/2018	7:53:44PM	L1849489-04,T	AB
121	12/6/2018	7:58:49PM	L1849567-01,T	AB
122	12/6/2018	8:03:44PM	WG1186024-2,T,2	AB
123	12/6/2018	8:08:28PM	WG1186024-3,T,2	AB
124	12/6/2018	8:13:14PM	L1849000-01,T	AB
125	12/6/2018	8:18:02PM	L1849016-01,T	AB
126	12/6/2018	8:22:53PM	L1849016-02,T	AB
127	12/6/2018	8:27:41PM	L1848674-17,C	AB
128	12/6/2018	8:32:47PM	L1848674-18,C	AB
129	12/6/2018	8:37:52PM	CCV	AB
130	12/6/2018	8:42:42PM	CCB	AB
131	12/6/2018	8:47:47PM	L1849141-02,T	AB
132	12/6/2018	8:52:43PM	L1849141-04,T	AB
133	12/6/2018	8:57:49PM	L1849141-06,T	AB
134	12/6/2018	9:02:46PM	L1849141-08,T	AB
135	12/6/2018	9:07:35PM	L1849141-10,T	AB
136	12/6/2018	9:12:31PM	L1849141-12,T	AB
137	12/6/2018	9:17:28PM	L1849141-14,T	AB
138	12/6/2018	9:22:26PM	L1849141-16,T	AB
139	12/6/2018	9:27:22PM	L1849141-18,T	AB
140	12/6/2018	9:32:16PM	L1848674-19,C	AB
141	12/6/2018	9:37:18PM	CCV	AB
142	12/6/2018	9:42:08PM	CCB	AB
143	12/6/2018	9:47:13PM	L1848674-20,C	AB
144	12/6/2018	9:52:16PM	L1849141-20,T	AB
145	12/6/2018	9:57:13PM	L1849141-22,T	AB
146	12/6/2018	10:02:10PM	L1849141-24,T	AB
147	12/6/2018	10:06:59PM	L1849141-26,T	AB
148	12/6/2018	10:11:56PM	L1849141-28,T	AB
149	12/6/2018	10:16:45PM	L1849141-30,T	AB
150	12/6/2018	10:21:51PM	L1849141-32,T	AB
151	12/6/2018	10:26:38PM	L1849141-34,T	AB
152	12/6/2018	10:31:35PM	L1848674-21,C	AB
153	12/6/2018	10:36:37PM	CCV	AB
154	12/6/2018	10:46:11PM	CCB	AB
155	12/6/2018	10:51:17PM	WG1186017-1,T	AB
156	12/6/2018	10:56:21PM	WG1186017-2,T,2	AB
157	12/6/2018	11:01:06PM	WG1186017-3,T,2	AB
158	12/6/2018	11:05:52PM	L1848428-01,T	AB
159	12/6/2018	11:10:43PM	L1848428-02,T	AB
160	12/6/2018	11:15:35PM	L1848428-03,T	AB
161	12/6/2018	11:20:27PM	L1848428-04,T	AB
162	12/6/2018	11:25:18PM	L1848428-05,T	AB

163	12/6/2018	11:30:10PM	L1848674-23,C	AB
164	12/6/2018	11:35:07PM	L1848674-22,C	AB
165	12/6/2018	11:40:08PM	CCV	AB
166	12/6/2018	11:44:58PM	CCB	AB
167	12/6/2018	11:50:03PM	L1848428-06,T	AB
168	12/6/2018	11:54:55PM	L1848428-07,T	AB
169	12/6/2018	11:59:47PM	L1848428-08,T	AB
170	12/7/2018	12:04:38AM	L1848428-09,T	AB
171	12/7/2018	12:09:29AM	L1849009-01,T	AB
172	12/7/2018	12:14:24AM	L1849009-02,T	AB
173	12/7/2018	12:19:16AM	L1849009-03,T	AB
174	12/7/2018	12:24:08AM	L1849009-04,T	AB
175	12/7/2018	12:29:01AM	L1848674-24,C	AB
176	12/7/2018	12:34:00AM	L1848674-25,C	AB
177	12/7/2018	12:39:01AM	CCV	AB
178	12/7/2018	12:43:52AM	CCB	AB
179	12/7/2018	12:48:57AM	L1849009-05,T	AB
180	12/7/2018	12:53:49AM	L1849009-06,T	AB
181	12/7/2018	12:58:41AM	L1849255-01,T	AB
182	12/7/2018	1:03:36AM	L1849255-02,T	AB
183	12/7/2018	1:08:24AM	L1849260-01,T	AB
184	12/7/2018	1:13:16AM	L1849298-01,T	AB
185	12/7/2018	1:18:14AM	L1849298-03,T	AB
186	12/7/2018	1:23:10AM	L1848674-26,C	AB
187	12/7/2018	1:28:09AM	L1848674-27,C	AB
188	12/7/2018	1:33:09AM	L1848674-28,C	AB
189	12/7/2018	1:38:08AM	CCV	AB
190	12/7/2018	1:42:59AM	CCB	AB
191	12/7/2018	1:48:05AM	.005	AB
192	12/7/2018	1:53:09AM	.01	AB
193	12/7/2018	1:58:12AM	.05	AB
194	12/7/2018	2:03:07AM	ICSA	AB
195	12/7/2018	2:08:12AM	ICSAB	AB
196	12/7/2018	2:13:18AM	CRI	AB
197	12/7/2018	2:18:24AM	CCV	AB
198	12/7/2018	2:23:14AM	CCB	AB

METALS ELN REPORT

Workgroup: WG1186031

Digestion

Prep Method	Acid Type 1	Acid 1 Lot	Acid Type 2	Acid 2 Lot	Spike Type	Lims Spike Lot	Spike Lot	Post Spike Spikelot	Spike Lot	Srm Spikelot	Use Srm For Lcs	Use Srm For	Use Srm For	Use Srm For
EPA 3050B	HCL	C18157768	HNO3	C18417462	METALS	METSPIKE2	FPS18461409385SM	METSPIKE2	IPS1849031110MG	D102-540	Y	141,15		

Additional Reagent/Std	AG1842161848FC
	MIX1848281230MG

Sample/ Type	Digestion Date	Analyst	Sample Weight g	Balance Id	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L1849060-02 SAMP	12/05/18 21:00	Fatima Cofie	1.268	15		12/05/18 21:00	2081	95.0	12/05/18 22:00	50	
L1849060-03 SAMP	12/05/18 21:00	Fatima Cofie	1.294	15		12/05/18 21:00	2081	95.0	12/05/18 22:00	50	
L1849060-04 SAMP	12/05/18 21:00	Fatima Cofie	1.318	15		12/05/18 21:00	2081	95.0	12/05/18 22:00	50	
L1849060-05 SAMP	12/05/18 21:00	Fatima Cofie	1.312	15		12/05/18 21:00	2081	95.0	12/05/18 22:00	50	
L1849060-06 SAMP	12/05/18 21:00	Fatima Cofie	1.295	15		12/05/18 21:00	2081	95.0	12/05/18 22:00	50	
L1849088-01 SOIL	12/05/18 21:00	Fatima Cofie	1.260	15		12/05/18 21:00	2081	95.0	12/05/18 22:00	50	
L1849088-02 SOIL	12/05/18 21:00	Fatima Cofie	1.260	15		12/05/18 21:00	2081	95.0	12/05/18 22:00	50	
L1849088-03 SOIL	12/05/18 21:00	Fatima Cofie	1.314	15		12/05/18 21:00	2081	95.0	12/05/18 22:00	50	
L1849088-04 SOIL	12/05/18 21:00	Fatima Cofie	1.295	15		12/05/18 21:00	2081	95.0	12/05/18 22:00	50	
L1849088-05 SOIL	12/05/18 21:00	Fatima Cofie	1.296	15		12/05/18 21:00	2081	95.0	12/05/18 22:00	50	
L1849088-06 SOIL	12/05/18 21:00	Fatima Cofie	1.263	15		12/05/18 21:00	2081	95.0	12/05/18 22:00	50	
L1849088-07 SOIL	12/05/18 21:00	Fatima Cofie	1.303	15		12/05/18 21:00	2081	95.0	12/05/18 22:00	50	
L1849088-08 SOIL	12/05/18 21:00	Fatima Cofie	1.298	15		12/05/18 21:00	2081	95.0	12/05/18 22:00	50	

METALS ELN REPORT

Workgroup: WG1186031

Sample/ Type	Digestion Date	Analyst	Sample Weight g	Balance Id	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L1849088-09 SOIL	12/05/18 21:00	Fatima Cofie	1.263	15		12/05/18 21:00	2081	95.0	12/05/18 22:00	50	
L1849088-10 SOIL	12/05/18 21:00	Fatima Cofie	1.307	15		12/05/18 21:00	2081	95.0	12/05/18 22:00	50	
L1849088-12 SOIL	12/05/18 21:00	Fatima Cofie	1.265	15		12/05/18 21:00	2081	95.0	12/05/18 22:00	50	
L1849088-13 SOIL	12/05/18 21:00	Fatima Cofie	1.265	15		12/05/18 21:00	2081	95.0	12/05/18 22:00	50	
L1849088-14 SOIL	12/05/18 21:00	Fatima Cofie	1.299	15		12/05/18 21:00	2081	95.0	12/05/18 22:00	50	
L1849088-18 SOIL	12/05/18 21:00	Fatima Cofie	1.265	15		12/05/18 21:00	2081	95.0	12/05/18 22:00	50	
L1849398-01 SOIL	12/05/18 21:00	Fatima Cofie	1.278	15		12/05/18 21:00	2081	95.0	12/05/18 22:00	50	
WG1186031-1 BLANK	12/05/18 21:00	Fatima Cofie	1.250	15		12/05/18 21:00	2081	95.0	12/05/18 22:00	50	
WG1186031-2 LCS	12/05/18 21:00	Fatima Cofie	0.394	15	0.394	12/05/18 21:00	2081	95.0	12/05/18 22:00	50	
WG1186031-3 MS	12/05/18 21:00	Fatima Cofie	1.277	15	1	12/05/18 21:00	2081	95.0	12/05/18 22:00	50	
WG1186031-4 MSD	12/05/18 21:00	Fatima Cofie	1.282	15	1	12/05/18 21:00	2081	95.0	12/05/18 22:00	50	
WG1186031-5 PS	12/05/18 21:00	Fatima Cofie	1.294	15		12/05/18 21:00	2081	95.0	12/05/18 22:00	50	
WG1186031-6 SERDIL	12/05/18 21:00	Fatima Cofie	1.294	15		12/05/18 21:00	2081	95.0	12/05/18 22:00	50	

Reported: 07-DEC-18 06:44 PM

METALS ELN REPORT

Workgroup: WG1186031

Reagent	Actual Volume	Units
Nitric Acid (HNO3)	2	ml
Hydrochloric Acid (HCl)	3	ml

Reported: 07-DEC-18 06:44 PM

Inorganic Data
(Mercury Analysis)

Form 1
METALS

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Lab ID	: L1849060-02	**Date Collected**	: 11/30/18 09:05
Client ID	: CB-02	**Date Received**	: 11/30/18
Sample Location	: PORT OF ALBANY	**Date Analyzed**	: 12/06/18 21:55
Sample Matrix	: SOIL	**Dilution Factor**	: 5
Analytical Method	: 1,7471B	**Analyst**	: MG
Lab File ID	: WG1186347_120618AA.txt	**Instrument ID**	: CETAC
Sample Amount	: 0.391g	**%Solids**	: 66
Digestion Method	: EPA 7471B	**Date Digested**	: 12/06/18

		mg/kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	7.50	0.482	0.102	

Form 1
METALS

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Lab ID	: L1849060-03	**Date Collected**	: 11/30/18 09:25
Client ID	: CB-03	**Date Received**	: 11/30/18
Sample Location	: PORT OF ALBANY	**Date Analyzed**	: 12/06/18 20:38
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 1,7471B	**Analyst**	: MG
Lab File ID	: WG1186347_120618AA.txt	**Instrument ID**	: CETAC
Sample Amount	: 0.399g	**%Solids**	: 50
Digestion Method	: EPA 7471B	**Date Digested**	: 12/06/18

		mg/kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	2.40	0.126	0.027	

Form 1
METALS

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Lab ID	: L1849060-04	**Date Collected**	: 11/30/18 09:45
Client ID	: CB-04	**Date Received**	: 11/30/18
Sample Location	: PORT OF ALBANY	**Date Analyzed**	: 12/06/18 21:58
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 1,7471B	**Analyst**	: MG
Lab File ID	: WG1186347_120618AA.txt	**Instrument ID**	: CETAC
Sample Amount	: 0.399g	**%Solids**	: 86
Digestion Method	: EPA 7471B	**Date Digested**	: 12/06/18

		mg/kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	0.425	0.073	0.015	

Form 1
METALS

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Lab ID	: L1849060-05	**Date Collected**	: 11/30/18 10:10
Client ID	: CB-01	**Date Received**	: 11/30/18
Sample Location	: PORT OF ALBANY	**Date Analyzed**	: 12/06/18 23:33
Sample Matrix	: SOIL	**Dilution Factor**	: 5
Analytical Method	: 1,7471B	**Analyst**	: MG
Lab File ID	: WG1186347_120618AA.txt	**Instrument ID**	: CETAC
Sample Amount	: 0.398g	**%Solids**	: 73
Digestion Method	: EPA 7471B	**Date Digested**	: 12/06/18

		mg/kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	7.43	0.430	0.091	

Form 1
METALS

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Lab ID	: L1849060-06	**Date Collected**	: 11/30/18 12:00
Client ID	: DUP-18	**Date Received**	: 11/30/18
Sample Location	: PORT OF ALBANY	**Date Analyzed**	: 12/06/18 22:10
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 1,7471B	**Analyst**	: MG
Lab File ID	: WG1186347_120618AA.txt	**Instrument ID**	: CETAC
Sample Amount	: 0.394g	**%Solids**	: 49
Digestion Method	: EPA 7471B	**Date Digested**	: 12/06/18

		mg/kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	2.57	0.130	0.028	

Form 1
METALS

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Lab ID	: WG1186191-1	**Date Collected**	: NA
Client ID	: WG1186191-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 12/06/18 20:35
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 1,7471B	**Analyst**	: MG
Lab File ID	: WG1186347_120618AA.txt	**Instrument ID**	: CETAC
Sample Amount	: 0.3g	**%Solids**	: NA
Digestion Method	: EPA 7471B	**Date Digested**	: 12/06/18

		mg/kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
7439-97-6	Mercury, Total	ND	0.083	0.018	U

Form 2A
Initial and Continuing Calibration Verification

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: CETAC	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :	R1138769-1			R1138769-4			R1138769-6		R1138769-8	
Date Analyzed :	12/06/18 12:54			12/06/18 12:59			12/06/18 13:21		12/06/18 13:36	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury	0.0030	0.0029	97.	0.0100	0.0109	109.	0.0111	111.	0.0112	112.

Acceptance Criteria:

ICV:	95-105%	(Methods 200.7, 245.1)
	90-110%	(Methods 200.8, 6010, 6020, 7470, 7471, 7474)
	85-115%	(Method 1631)
CCV:	90-110%	(Methods 200.7, 245.1, 6010, 6020, 7474)
	85-115%	(Methods 200.8, 1631)
	80-120%	(Methods 7470, 7471)

Form 2A
Initial and Continuing Calibration Verification

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: CETAC	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1138769-10			R1138769-12		R1138769-14	
Date Analyzed :				12/06/18 13:54			12/06/18 14:43		12/06/18 15:04	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury				0.0100	0.0110	110.	0.0111	111.	0.0111	111.

Acceptance Criteria:

ICV:	**95-105%**	**(Methods 200.7, 245.1)**
	90-110%	**(Methods 200.8, 6010, 6020, 7470, 7471, 7474)**
	85-115%	**(Method 1631)**
CCV:	**90-110%**	**(Methods 200.7, 245.1, 6010, 6020, 7474)**
	85-115%	**(Methods 200.8, 1631)**
	80-120%	**(Methods 7470, 7471)**

Form 2A
Initial and Continuing Calibration Verification

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: CETAC	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1138769-16			R1138769-18		R1138769-20	
Date Analyzed :				12/06/18 16:13			12/06/18 16:31		12/06/18 18:00	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury				0.0100	0.0114	114.	0.0114	114.	0.0110	110.

Acceptance Criteria:

ICV:	**95-105%**	**(Methods 200.7, 245.1)**
	90-110%	**(Methods 200.8, 6010, 6020, 7470, 7471, 7474)**
	85-115%	**(Method 1631)**
CCV:	**90-110%**	**(Methods 200.7, 245.1, 6010, 6020, 7474)**
	85-115%	**(Methods 200.8, 1631)**
	80-120%	**(Methods 7470, 7471)**

Form 2A
Initial and Continuing Calibration Verification

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: CETAC	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1138769-22			R1138769-24		R1138769-26	
Date Analyzed :				12/06/18 18:21			12/06/18 19:37		12/06/18 20:02	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury				0.0100	0.0109	109.	0.0092	92.	0.0089	89.

Acceptance Criteria:

ICV:	**95-105%**	**(Methods 200.7, 245.1)**
	90-110%	**(Methods 200.8, 6010, 6020, 7470, 7471, 7474)**
	85-115%	**(Method 1631)**
CCV:	**90-110%**	**(Methods 200.7, 245.1, 6010, 6020, 7474)**
	85-115%	**(Methods 200.8, 1631)**
	80-120%	**(Methods 7470, 7471)**

Form 2A
Initial and Continuing Calibration Verification

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: CETAC	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1138769-28			R1138769-30		R1138769-32	
Date Analyzed :				12/06/18 20:24			12/06/18 20:56		12/06/18 21:23	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury				0.0100	0.0090	90.	0.0091	91.	0.0091	91.

Acceptance Criteria:

ICV:	**95-105%**	**(Methods 200.7, 245.1)**
	90-110%	**(Methods 200.8, 6010, 6020, 7470, 7471, 7474)**
	85-115%	**(Method 1631)**
CCV:	**90-110%**	**(Methods 200.7, 245.1, 6010, 6020, 7474)**
	85-115%	**(Methods 200.8, 1631)**
	80-120%	**(Methods 7470, 7471)**

Form 2A
Initial and Continuing Calibration Verification

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: CETAC	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1138769-34			R1138769-36		R1138769-38	
Date Analyzed :				12/06/18 21:37			12/06/18 22:05		12/06/18 22:31	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury				0.0100	0.0088	88.	0.0089	89.	0.0088	88.

Acceptance Criteria:

ICV:	**95-105%**	**(Methods 200.7, 245.1)**
	90-110%	**(Methods 200.8, 6010, 6020, 7470, 7471, 7474)**
	85-115%	**(Method 1631)**
CCV:	**90-110%**	**(Methods 200.7, 245.1, 6010, 6020, 7474)**
	85-115%	**(Methods 200.8, 1631)**
	80-120%	**(Methods 7470, 7471)**

Form 2A
Initial and Continuing Calibration Verification

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: CETAC	**Units**	: mg/l

	Initial Calibration			Continuing Calibration(s)						
Lab ID :				R1138769-40			R1138769-42		R1138769-44	
Date Analyzed :				12/06/18 22:56			12/06/18 23:18		12/06/18 23:37	
Parameter	**True**	**Found**	**%R**	**True**	**Found**	**%R**	**Found**	**%R**	**Found**	**%R**
Mercury				0.0100	0.0089	88.	0.0087	87.	0.0087	87.

Acceptance Criteria:

ICV:	**95-105%**	**(Methods 200.7, 245.1)**
	90-110%	**(Methods 200.8, 6010, 6020, 7470, 7471, 7474)**
	85-115%	**(Method 1631)**
CCV:	**90-110%**	**(Methods 200.7, 245.1, 6010, 6020, 7474)**
	85-115%	**(Methods 200.8, 1631)**
	80-120%	**(Methods 7470, 7471)**

Form 3
Blanks

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: CETAC		

		Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID	:	R1138769-2		R1138769-5		R1138769-7		R1138769-9		WG1186191-1	
Date Analyzed	:	12/06/18 12:56		12/06/18 13:02		12/06/18 13:23		12/06/18 13:39		12/06/18 20:35	
Parameter		mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q	mg/kg	Q
Mercury		0.000106	U	0.000106	U	0.000106	U	0.000106	U	0.018	U

Form 3
Blanks

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: CETAC		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1138769-11		R1138769-13		R1138769-15			
Date Analyzed :			12/06/18 13:56		12/06/18 14:45		12/06/18 15:08			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Mercury			0.000106	U	0.000106	U	0.000106	U		

Form 3
Blanks

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: CETAC		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1138769-17		R1138769-19		R1138769-21			
Date Analyzed :			12/06/18 16:17		12/06/18 16:34		12/06/18 18:02			
Parameter	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**	**mg/l**	**Q**		**Q**
Mercury			0.000106	U	0.000106	U	0.000106	U		

Form 3
Blanks

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: CETAC		

		Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID	:			R1138769-23		R1138769-25		R1138769-27			
Date Analyzed	:			12/06/18 18:23		12/06/18 19:41		12/06/18 20:05			
Parameter		mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Mercury				0.000106	U	0.000106	U	0.000106	U		

Form 3
Blanks

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: CETAC		

		Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID	:			R1138769-29		R1138769-31		R1138769-33			
Date Analyzed	:			12/06/18 20:28		12/06/18 20:59		12/06/18 21:27			
Parameter		mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Mercury				0.000106	U	0.000106	U	0.000106	U		

Form 3
Blanks

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: CETAC		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1138769-35		R1138769-37		R1138769-39			
Date Analyzed :			12/06/18 21:41		12/06/18 22:08		12/06/18 22:35			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Mercury			0.000106	U	0.000106	U	0.000106	U		

Form 3
Blanks

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: CETAC		

	Initial Calibration Blank		Continuing Calibration Blank(s)						Preparation Blank	
Lab ID :			R1138769-41		R1138769-43		R1138769-45			
Date Analyzed :			12/06/18 22:59		12/06/18 23:22		12/06/18 23:41			
Parameter	mg/l	Q	mg/l	Q	mg/l	Q	mg/l	Q		Q
Mercury			0.000106	U	0.000106	U	0.000106	U		

Form 5a
Matrix Spike

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Client Sample ID	: CB-03	**Matrix**	: SOIL
Lab Sample ID	: L1849060-03		
Matrix Spike	: WG1186191-3	**MS Analysis Date**	: 12/06/18 20:42
Matrix Spike Dup	: WG1186191-4	**MSD Analysis Date**	: 12/06/18 20:46

		Matrix Spike Sample				Matrix Spike Duplicate						
Parameter	Sample Conc. (mg/kg)	Spike Added (mg/kg)	Spike Conc. (mg/kg)	%R		Spike Added (mg/kg)	Spike Conc. (mg/kg)	%R		RPD	Recovery Limits	RPD Limit
Mercury, Total	2.40	0.252	2.23	0	Q	0.252	2.57	67	Q	14	80-120	20

Form 7
Laboratory Control Sample

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Client Sample ID	: NA	**Matrix**	: SOIL
Lab Sample ID	: WG1186191-2	**LCS Analysis Date**	: 12/06/18 20:37
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (mg/kg)**	**Found (mg/kg)**	**%R**	**True (mg/kg)**	**Found (mg/kg)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Mercury, Total	**13.2**	**11.2**	**85.**					**72-128**	**20**

Form 12
Preparation Log

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Matrix	: SOIL	**Prep Method**	: EPA 7471B

Sample Number	Preparation Date	Weight (gram)	Volume (mL)
L1849060-02	12/06/18 08:00	0.39	-
L1849060-03	12/06/18 08:00	0.40	-
L1849060-04	12/06/18 08:00	0.40	-
L1849060-05	12/06/18 08:00	0.40	-
L1849060-06	12/06/18 08:00	0.39	-
WG1186191-1	12/06/18 08:00	0.30	-
WG1186191-2	12/06/18 08:00	0.16	-
WG1186191-3	12/06/18 08:00	0.40	-
WG1186191-4	12/06/18 08:00	0.40	-

Form 13
Analysis Run Log

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: CETAC	**Analysis Method**	: 1,7471B
Start Date	: 12/06/18 12:54	**End Date**	: 12/06/18 23:41

Sample Number	Dilution Factor	Analysis Time	Mercury, Total
R1138769-1 ICV	1	12:54:40	X
R1138769-2 ICB	1	12:56:23	X
R1138769-4 CCV	1	12:59:49	X
R1138769-5 CCB	1	13:02:35	X
R1138769-6 CCV	1	13:21:14	X
R1138769-7 CCB	1	13:23:26	X
R1138769-8 CCV	1	13:36:42	X
R1138769-9 CCB	1	13:39:27	X
R1138769-10 CCV	1	13:54:24	X
R1138769-11 CCB	1	13:56:09	X
R1138769-12 CCV	1	14:43:18	X
R1138769-13 CCB	1	14:45:59	X
R1138769-14 CCV	1	15:04:53	X
R1138769-15 CCB	1	15:08:28	X
R1138769-16 CCV	1	16:13:47	X
R1138769-17 CCB	1	16:17:22	X
R1138769-18 CCV	1	16:31:07	X
R1138769-19 CCB	1	16:34:36	X
R1138769-20 CCV	1	18:00:11	X
R1138769-21 CCB	1	18:02:03	X
R1138769-22 CCV	1	18:21:04	X
R1138769-23 CCB	1	18:23:07	X
R1138769-24 CCV	1	19:37:34	X
R1138769-25 CCB	1	19:41:27	X
R1138769-26 CCV	1	20:02:20	X
R1138769-27 CCB	1	20:05:58	X
R1138769-28 CCV	1	20:24:53	X

Form 13
Analysis Run Log

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: CETAC	**Analysis Method**	: 1,7471B
Start Date	: 12/06/18 12:54	**End Date**	: 12/06/18 23:41

Sample Number	Dilution Factor	Analysis Time	Mercury, Total
R1138769-29 CCB	1	20:28:33	X
WG1186191-1 BLANK	1	20:35:25	X
WG1186191-2 LCS	5	20:37:08	X
L1849060-03	1	20:38:52	X
WG1186191-3 MS	1	20:42:39	X
WG1186191-4 MSD	1	20:46:20	X
R1138769-30 CCV	1	20:56:17	X
R1138769-31 CCB	1	20:59:57	X
R1138769-32 CCV	1	21:23:59	X
R1138769-33 CCB	1	21:27:55	X
R1138769-34 CCV	1	21:37:21	X
R1138769-35 CCB	1	21:41:13	X
L1849060-02	5	21:55:01	X
L1849060-04	1	21:58:46	X
R1138769-36 CCV	1	22:05:16	X
R1138769-37 CCB	1	22:08:50	X
L1849060-06	1	22:10:33	X
R1138769-38 CCV	1	22:31:47	X
R1138769-39 CCB	1	22:35:23	X
R1138769-40 CCV	1	22:56:19	X
R1138769-41 CCB	1	22:59:32	X
R1138769-42 CCV	1	23:18:30	X
R1138769-43 CCB	1	23:22:09	X
L1849060-05	5	23:33:20	X
R1138769-44 CCV	1	23:37:14	X
R1138769-45 CCB	1	23:41:10	X

Date Created: 03/19/18
Created By: Jason Hebert
File: PM4631-1
Page: 1

MERCURY by 7470A, 245.1 (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Mercury, Total	7439-97-6	0.0002	0.0000915	mg/l	80-120	20	75-125	20	20		28 days	1 - Plastic 500ml HNO3 preserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. ***(Soil/Solids only)***
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

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File: PM4631-1
Page: 1

MERCURY by 7470A, 245.1 (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Mercury, Total	7439-97-6	0.0002	0.0000915	mg/l	80-120	20	75-125	20	20		28 days	1 - Plastic 500ml HNO3 preserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

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Page: 1

METALS by 7471B (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria	Holding Time	Container/Sample Preservation
Mercury, Total	7439-97-6	0.0800	0.0169	mg/kg	72-128		80-120	20	20		28 days	1 - Metals Only - Glass 60mL/2oz unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Report Generated By CETAC QuickTrace
Analyst: metals-instrument
Worksheet file: C:\Program Files\QuickTrace\Worksheets\WG1186347-120618A.wsz
Date Started: 12/6/2018 11:02:11 AM
Comment:

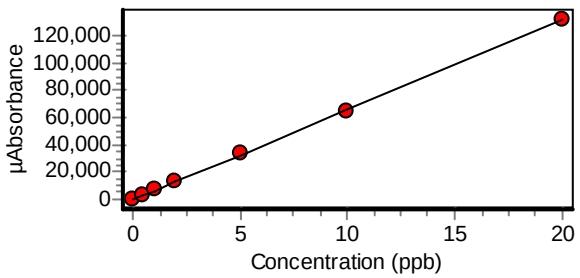
REVIEWED
By drm at 10:02 am, Dec 07, 2018

Results--Mercury Analysis

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Flags
rinse					UNK	12/06/18 12:36:52 pm	0.000	-64	63.13	
	Replicates	-104.1	-86.7	-54.8	-11.7					
Calibration Blank					STD	12/06/18 12:38:40 pm	0.000	114	23.21	
	Replicates	102.1	92.7	109.0	152.5					
Standard #1					STD	12/06/18 12:40:22 pm	0.500	3721	2.23	
	Replicates	3605.6	3739.3	3735.0	3803.0					
Standard #2					STD	12/06/18 12:42:05 pm	1.000	7503	1.22	
	Replicates	7412.3	7446.3	7538.5	7613.7					
Standard #3					STD	12/06/18 12:43:48 pm	2.000	13833	1.25	
	Replicates	13621.6	13769.0	13939.3	14003.0					
Standard #4					STD	12/06/18 12:45:32 pm	5.000	33432	2.10	
	Replicates	32442.4	33422.7	33909.8	33953.2					
Standard #5					STD	12/06/18 12:47:13 pm	10.000	64979	1.59	
	Replicates	63525.0	64960.8	65708.8	65722.0					
Standard #6					STD	12/06/18 12:50:49 pm	20.000	131753	1.76	
	Replicates	128716.0	131210.0	133281.2	133806.5					

Calibration

Equation: A = 114.077 + 6571.726C
R2: 0.99983
SEE: 721.2423
Flags:



Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Flags
ICV					ICV	12/06/18 12:54:40 pm	2.900	19140	0.62	
	Replicates	18987.4	19116.0	19190.2	19268.3					
	% Recovery	96.51								
ICB					ICB	12/06/18 12:56:23 pm	-0.023	-40	53.37	
	Replicates	-30.7	-38.8	-20.5	-70.0					
0.5 PPB					UNK	12/06/18 12:58:05 pm	0.535	3632	1.74	
	Replicates	3552.1	3695.3	3667.0	3612.3					
CCV					CCV	12/06/18 12:59:49 pm	10.900	71649	0.17	
	Replicates	71743.9	71556.0	71534.8	71759.5					
	% Recovery	108.85								
CCB					CCB	12/06/18 01:02:35 pm	-0.025	-51	94.97	
	Replicates	-21.7	-81.7	-101.7	0.8					
WG1186153-1 WG1186347					UNK	12/06/18 01:04:17 pm	0.026	284	11.07	
	Replicates	251.0	276.3	281.5	326.5					
WG1186153-2 WG1186347 5X					UNK	12/06/18 01:05:59 pm	49.000	64560	1.28	
	Replicates	63416.6	64482.2	65171.7	65167.7					
WG1186153-3 WG1186347 5X					UNK	12/06/18 01:08:39 pm	42.000	55290	0.98	
	Replicates	55037.9	54943.5	55078.7	56099.8					
L1849272-01 WG1186347					UNK	12/06/18 01:10:32 pm	1.840	12205	0.50	
	Replicates	12162.9	12198.8	12293.3	12164.0					
WG1186153-4 WG1186347					UNK	12/06/18 01:12:15 pm	4.330	28559	0.15	
	Replicates	28585.7	28570.3	28585.5	28496.2					
L1849026-01 WG1186347					UNK	12/06/18 01:13:59 pm	3.350	22120	0.76	
	Replicates	22277.1	22225.8	22071.2	21904.8					
L1849101-01 WG1186347					UNK	12/06/18 01:15:43 pm	0.478	3256	1.34	
	Replicates	3267.7	3289.2	3275.7	3191.8					

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Flags
WG1186153-4 WG1186347					UNK	12/06/18 01:19:30 pm	3.560	23494	1.10	
Replicates	23855.1	23471.0	23397.7	23251.2						
CCV					CCV	12/06/18 01:21:14 pm	11.100	73069	0.85	
Replicates	72178.1	73161.7	73601.5	73335.0						
% Recovery	111.01									
CCB					CCB	12/06/18 01:23:26 pm	-0.037	-131	18.44	
Replicates	-117.6	-152.3	-103.2	-149.2						
WG1186190-1 WG1186347					UNK	12/06/18 01:25:08 pm	-0.013	30	208.54	
Replicates	103.0	61.2	-5.2	-37.3						
WG1186190-2 WG1186347 5X					UNK	12/06/18 01:26:50 pm	42.600	56072	0.51	
Replicates	55703.9	56053.8	56132.5	56398.8						
L1849804-01 WG1186347					UNK	12/06/18 01:28:44 pm	0.178	1285	1.93	
Replicates	1275.0	1269.5	1274.8	1322.5						
WG1186190-3 WG1186347					UNK	12/06/18 01:30:26 pm	1.330	8836	0.41	
Replicates	8827.3	8818.2	8889.3	8811.0						
WG1186190-4 WG1186347					UNK	12/06/18 01:32:10 pm	0.153	1118	1.03	
Replicates	1101.1	1125.3	1125.7	1119.7						
9804-01 PS					UNK	12/06/18 01:33:54 pm	10.400	68391	0.14	
Replicates	68300.4	68388.7	68352.3	68523.5						
CCV					CCV	12/06/18 01:36:42 pm	11.200	73830	0.48	
Replicates	73419.3	74034.8	74199.0	73666.3						
% Recovery	112.17									
CCB					CCB	12/06/18 01:39:27 pm	-0.052	-227	25.57	
Replicates	-274.0	-273.3	-207.0	-153.8						
WG1186151-1 WG1186147					UNK	12/06/18 01:43:00 pm	-0.003	92	17.11	
Replicates	69.6	95.2	97.7	106.2						

Sample Name				Type	Date/Time	Conc (ppb)	µAbs	%RSD	Flags
WG1186151-2 WG1186147 5X				UNK	12/06/18 01:44:42 pm	47.900	63095	1.14	
Replicates	62461.9	62529.0	63468.2	63920.3					
WG1186151-3 WG1186147 5X				UNK	12/06/18 01:47:09 pm	49.800	65619	0.65	
Replicates	65056.1	65521.5	65982.5	65914.3					
L1848646-01 WG1186147				UNK	12/06/18 01:49:14 pm	0.164	1194	5.09	
Replicates	1132.7	1265.2	1222.0	1155.8					
L1848668-01 WG1186147				UNK	12/06/18 01:50:57 pm	0.154	1124	2.11	
Replicates	1136.3	1119.0	1148.7	1093.8					
L1848706-01 WG1186147				UNK	12/06/18 01:52:40 pm	0.083	658	4.84	
Replicates	640.7	672.0	695.0	623.7					
CCV				CCV	12/06/18 01:54:24 pm	11.000	72378	0.42	
Replicates	72010.3	72618.5	72644.3	72237.8					
% Recovery	109.96								
CCB				CCB	12/06/18 01:56:09 pm	-0.052	-231	15.61	
Replicates	-251.4	-267.5	-185.8	-220.2					
L1848765-01 WG1186347				UNK	12/06/18 02:23:55 pm	11.100	72906	2.22	
Replicates	70544.9	73199.3	74126.7	73753.5					
L1848765-02 WG1186347				UNK	12/06/18 02:25:54 pm	6.410	42223	1.82	
Replicates	41129.3	42254.8	42781.5	42726.5					
L1848765-03 WG1186347				UNK	12/06/18 02:27:36 pm	4.910	32399	0.64	
Replicates	32159.3	32611.8	32528.3	32296.0					
L1848765-04 WG1186347				UNK	12/06/18 02:29:19 pm	3.730	24616	0.77	
Replicates	24336.6	24702.7	24761.5	24662.5					
L1848765-06 WG1186347				UNK	12/06/18 02:31:03 pm	9.540	62828	0.37	
Replicates	62968.7	63027.0	62813.3	62502.3					

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Flags
L1848879-02 WG1186347					UNK	12/06/18 02:34:44 pm	1.400	9335	0.84	
Replicates	9387.1	9350.3	9381.5	9219.5						
L1848879-04 WG1186347					UNK	12/06/18 02:36:28 pm	0.770	5174	0.89	
Replicates	5240.9	5150.3	5139.3	5165.5						
L1848879-06 WG1186347					UNK	12/06/18 02:38:10 pm	0.478	3256	2.99	
Replicates	3340.3	3339.5	3165.2	3177.5						
L1848879-08 WG1186347					UNK	12/06/18 02:39:52 pm	0.381	2621	4.12	
Replicates	2539.1	2543.2	2630.8	2769.5						
L1848879-10 WG1186347					UNK	12/06/18 02:41:34 pm	0.186	1335	1.71	
Replicates	1336.7	1366.3	1313.2	1324.8						
CCV					CCV	12/06/18 02:43:18 pm	11.100	73093	0.36	
Replicates	72814.9	73017.8	73441.0	73098.5						
% Recovery	111.05									
CCB					CCB	12/06/18 02:45:59 pm	-0.016	6	452.42	
Replicates	34.4	-16.0	-20.5	27.3						
L1848885-01 WG1186347					UNK	12/06/18 02:47:42 pm	0.211	1503	1.80	
Replicates	1498.3	1530.3	1515.3	1467.2						
L1848885-02 WG1186347					UNK	12/06/18 02:49:26 pm	0.067	553	7.23	
Replicates	562.6	605.2	520.2	523.0						
L1849103-01 WG1186347					UNK	12/06/18 02:51:10 pm	4.870	32090	0.30	
Replicates	32002.3	32147.2	32194.5	32016.8						
L1849103-03 WG1186347					UNK	12/06/18 02:52:54 pm	0.563	3814	0.38	
Replicates	3821.0	3819.2	3822.7	3792.0						
L1849103-05 WG1186347					UNK	12/06/18 02:54:36 pm	0.518	3521	1.38	
Replicates	3488.0	3550.0	3473.3	3574.3						

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Flags
L1849103-07 WG1186347					UNK	12/06/18 02:56:18 pm	3.530	23333	0.63	
Replicates	23201.3	23443.3	23473.3	23212.2						
L1849103-09 WG1186347					UNK	12/06/18 02:58:00 pm	0.157	1145	6.49	
Replicates	1124.6	1171.8	1054.5	1230.0						
WG1186151-4 WG1186347					UNK	12/06/18 02:59:43 pm	6.160	40601	0.42	
Replicates	40826.9	40619.3	40531.0	40428.7						
WG1186151-5 WG1186347					UNK	12/06/18 03:01:27 pm	2.780	18405	1.42	
Replicates	18623.7	18565.8	18384.5	18045.0						
WG1186151-4 WG1186347					UNK	12/06/18 03:03:10 pm	5.140	33916	1.26	
Replicates	34228.7	34247.7	33851.5	33335.8						
CCV					CCV	12/06/18 03:04:53 pm	11.100	73233	0.38	
Replicates	73016.9	73431.0	73512.2	72972.3						
% Recovery	111.26									
CCB					CCB	12/06/18 03:08:28 pm	-0.034	-109	21.56	
Replicates	-81.4	-131.8	-97.8	-124.8						
L1848954-01 WG1186347					UNK	12/06/18 03:54:08 pm	3.840	25347	2.77	
Replicates	24309.7	25574.8	25849.0	25654.8						
L1849254-03 WG1186347					UNK	12/06/18 03:55:50 pm	0.107	818	4.22	
Replicates	838.0	779.2	799.3	854.2						
L1849254-04 WG1186347					UNK	12/06/18 03:57:33 pm	0.100	774	3.51	
Replicates	739.9	770.2	805.0	782.8						
L1849254-05 WG1186347					UNK	12/06/18 03:59:16 pm	0.087	689	2.87	
Replicates	670.1	673.0	707.7	703.7						
L1849254-06 WG1186347					UNK	12/06/18 04:00:59 pm	0.339	2339	0.78	
Replicates	2357.7	2322.3	2351.0	2324.2						

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Flags
L1849255-01 WG1186347					UNK	12/06/18 04:02:43 pm	9.690	63772	0.37	
Replicates	63619.3	63564.0	63814.8	64089.5						
L1849255-02 WG1186347					UNK	12/06/18 04:05:11 pm	11.000	72080	1.63	
Replicates	73194.6	72735.2	71866.8	70522.7						
L1849260-01 WG1186347					UNK	12/06/18 04:08:39 pm	0.118	887	4.56	
Replicates	944.0	847.8	880.0	877.8						
L1849272-03 WG1186347					UNK	12/06/18 04:10:21 pm	1.750	11608	1.89	
Replicates	11724.1	11837.0	11533.8	11336.8						
L1849298-01 WG1186347					UNK	12/06/18 04:12:04 pm	0.285	1985	1.50	
Replicates	1994.7	1941.2	2001.2	2004.8						
CCV					CCV	12/06/18 04:13:47 pm	11.400	74994	0.76	
Replicates	74277.6	75354.2	75538.0	74806.2						
% Recovery	113.94									
CCB					CCB	12/06/18 04:17:22 pm	-0.010	48	85.49	
Replicates	28.3	80.7	83.8	-0.3						
L1849298-03 WG1186347					UNK	12/06/18 04:19:05 pm	2.920	19308	1.31	
Replicates	19549.1	19462.5	19240.0	18982.0						
L1849322-01 WG1186347					UNK	12/06/18 04:20:49 pm	0.671	4523	1.09	
Replicates	4497.4	4549.8	4576.8	4468.5						
L1849481-01 WG1186347					UNK	12/06/18 04:22:33 pm	0.974	6515	1.49	
Replicates	6550.4	6607.5	6524.2	6379.7						
L1849481-02 WG1186347					UNK	12/06/18 04:24:17 pm	0.164	1190	1.76	
Replicates	1163.1	1188.0	1214.0	1193.3						
L1849489-04 WG1186347					UNK	12/06/18 04:25:59 pm	0.931	6230	1.00	
Replicates	6202.3	6313.0	6235.0	6167.8						

Sample Name				Type	Date/Time	Conc (ppb)	µAbs	%RSD	Flags
L1849567-01 WG1186347				UNK	12/06/18 04:27:41 pm	3.150	20787	0.53	
Replicates	20662.6	20913.3	20836.2	20734.7					
L1849773-01 WG1186347				UNK	12/06/18 04:29:23 pm	3.460	22840	0.60	
Replicates	22705.0	22942.0	22971.3	22741.8					
CCV				CCV	12/06/18 04:31:07 pm	11.400	74786	0.56	
Replicates	74776.7	75160.7	74998.2	74209.2					
% Recovery	113.63								
CCB				CCB	12/06/18 04:34:36 pm	-0.023	-40	139.92	
Replicates	-120.7	-30.7	-8.0	0.5					
L1848959-02 WG1186347				UNK	12/06/18 05:42:11 pm	0.747	5023	1.35	
Replicates	5072.6	5047.2	5049.0	4922.7					
L1848959-04 WG1186347				UNK	12/06/18 05:43:53 pm	0.065	538	7.08	
Replicates	587.9	511.2	505.3	547.2					
L1848959-06 WG1186347				UNK	12/06/18 05:45:36 pm	1.030	6882	0.76	
Replicates	6813.3	6917.2	6927.3	6870.5					
L1848959-08 WG1186347				UNK	12/06/18 05:47:19 pm	0.051	446	3.97	
Replicates	446.3	421.7	451.3	463.8					
L1848971-01 WG1186347				UNK	12/06/18 05:49:02 pm	0.305	2120	0.94	
Replicates	2146.3	2122.8	2101.5	2107.5					
L1849088-01 WG1186347				UNK	12/06/18 05:50:46 pm	0.137	1011	4.17	
Replicates	968.6	997.5	1068.8	1010.3					
L1849088-02 WG1186347				UNK	12/06/18 05:52:30 pm	1.180	7868	1.05	
Replicates	7917.3	7930.3	7875.5	7749.2					
L1849088-03 WG1186347				UNK	12/06/18 05:54:12 pm	0.069	566	2.50	
Replicates	556.3	556.3	565.7	586.3					

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Flags
L1849088-04 WG1186347					UNK	12/06/18 05:55:54 pm	9.920	65299	1.33	
Replicates	64063.7	65327.3	65987.5	65818.0						
L1849088-05 WG1186347					UNK	12/06/18 05:58:28 pm	1.540	10218	1.12	
Replicates	10206.6	10352.0	10239.8	10073.8						
CCV					CCV	12/06/18 06:00:11 pm	11.000	72116	0.59	
Replicates	71673.0	72228.0	72653.0	71908.5						
% Recovery	109.56									
CCB					CCB	12/06/18 06:02:03 pm	0.011	188	5.96	
Replicates	181.9	199.8	194.2	175.3						
L1849088-06 WG1186347					UNK	12/06/18 06:03:46 pm	1.040	6925	1.33	
Replicates	6967.3	6973.0	6971.7	6786.5						
L1849088-07 WG1186347					UNK	12/06/18 06:05:30 pm	0.372	2560	1.03	
Replicates	2527.0	2552.5	2587.8	2573.2						
L1849088-08 WG1186347					UNK	12/06/18 06:07:14 pm	0.165	1199	4.83	
Replicates	1228.1	1266.7	1144.2	1158.7						
L1849088-09 WG1186347					UNK	12/06/18 06:08:58 pm	0.075	604	9.27	
Replicates	648.6	649.0	532.8	585.8						
L1849088-10 WG1186347					UNK	12/06/18 06:10:40 pm	1.970	13039	0.74	
Replicates	13035.4	13082.3	13131.5	12905.8						
L1849088-12 WG1186347					UNK	12/06/18 06:12:22 pm	10.400	68226	0.99	
Replicates	67296.9	68529.0	68861.7	68217.0						
L1849088-13 WG1186347					UNK	12/06/18 06:15:54 pm	0.716	4820	1.15	
Replicates	4752.3	4850.8	4876.8	4800.0						
L1849088-14 WG1186347					UNK	12/06/18 06:17:37 pm	2.550	16875	1.00	
Replicates	16905.7	16958.2	17005.2	16629.0						

Sample Name				Type	Date/Time	Conc (ppb)	µAbs	%RSD	Flags
L1849088-18 WG1186347				UNK	12/06/18 06:19:20 pm	0.240	1690	4.07	
Replicates	1786.6	1680.7	1623.8	1670.2					
CCV				CCV	12/06/18 06:21:04 pm	10.900	71657	0.55	
Replicates	71250.3	71914.7	72062.2	71400.3					
% Recovery	108.86								
CCB				CCB	12/06/18 06:23:07 pm	-0.012	37	103.94	
Replicates	7.7	24.7	22.2	93.8					
CCV				UNK	12/06/18 07:37:34 pm	9.190	60495	1.57	
Replicates	59208.4	60392.8	60972.5	61405.2					
CCB				UNK	12/06/18 07:41:27 pm	-0.035	-116	42.55	
Replicates	-65.6	-94.0	-181.0	-123.3					
WG1186152-1 WG1186347				UNK	12/06/18 07:43:08 pm	0.042	391	4.86	
Replicates	375.6	378.2	416.8	394.7					
WG1186152-2 WG1186347 5X				UNK	12/06/18 07:44:50 pm	41.200	54202	1.67	
Replicates	53062.6	53998.7	54558.0	55190.7					
WG1186152-3 WG1186347 5X				UNK	12/06/18 07:48:36 pm	37.400	49238	1.89	
Replicates	48010.4	49088.2	49669.3	50183.0					
L1849000-01 WG1186347				UNK	12/06/18 07:50:19 pm	0.247	1738	2.23	
Replicates	1717.4	1713.8	1795.8	1725.7					
L1849016-01 WG1186347				UNK	12/06/18 07:52:02 pm	0.038	362	8.88	
Replicates	387.1	315.0	373.0	373.8					
L1849016-02 WG1186347				UNK	12/06/18 07:53:46 pm	0.087	686	8.19	
Replicates	612.9	733.3	726.2	670.0					
L1849141-02 WG1186347				UNK	12/06/18 07:55:31 pm	0.312	2163	2.59	
Replicates	2169.4	2083.7	2212.0	2188.5					

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Flags
L1849141-04 WG1186347					UNK	12/06/18 07:57:12 pm	0.062	522	9.79	
Replicates	534.6	461.2	509.2	583.8						
L1849141-06 WG1186347					UNK	12/06/18 07:58:54 pm	0.425	2909	3.18	
Replicates	2794.0	2873.3	2990.5	2976.8						
L1849141-08 WG1186347					UNK	12/06/18 08:00:37 pm	0.072	590	4.17	
Replicates	560.7	620.7	587.0	592.7						
CCV					CCV	12/06/18 08:02:20 pm	8.880	58463	1.39	
Replicates	57555.4	58146.5	58684.7	59466.3						
% Recovery	88.79									
CCB					CCB	12/06/18 08:05:58 pm	-0.042	-164	13.85	
Replicates	-137.1	-186.7	-154.7	-179.3						
L1849141-10 WG1186347					UNK	12/06/18 08:07:41 pm	0.712	4795	2.97	
Replicates	4609.7	4781.3	4836.5	4952.3						
L1849141-12 WG1186347					UNK	12/06/18 08:09:24 pm	1.150	7649	1.13	
Replicates	7567.6	7636.8	7622.5	7770.5						
L1849141-14 WG1186347					UNK	12/06/18 08:11:08 pm	0.746	5019	0.86	
Replicates	4987.1	4983.8	5027.2	5076.5						
L1849141-16 WG1186347					UNK	12/06/18 08:12:53 pm	0.246	1733	1.66	
Replicates	1699.6	1720.3	1751.7	1762.2						
L1849141-18 WG1186347					UNK	12/06/18 08:14:34 pm	0.228	1611	0.99	
Replicates	1605.6	1596.0	1633.3	1607.3						
L1849141-20 WG1186347					UNK	12/06/18 08:16:16 pm	0.451	3076	1.37	
Replicates	3025.4	3088.0	3064.8	3126.0						
L1849141-22 WG1186347					UNK	12/06/18 08:17:59 pm	0.182	1310	2.77	
Replicates	1256.7	1321.5	1327.2	1336.0						

Sample Name				Type	Date/Time	Conc (ppb)	µAbs	%RSD	Flags
L1849141-24 WG1186347				UNK	12/06/18 08:19:42 pm	0.227	1609	2.42	
Replicates	1631.0	1648.0	1560.2	1596.2					
L1849141-26 WG1186347				UNK	12/06/18 08:21:25 pm	0.075	610	2.91	
Replicates	587.9	608.8	631.2	611.5					
L1849141-28 WG1186347				UNK	12/06/18 08:23:09 pm	0.204	1457	3.71	
Replicates	1378.6	1468.5	1500.8	1481.2					
CCV				CCV	12/06/18 08:24:53 pm	9.020	59370	1.52	
Replicates	58153.6	59247.0	59861.3	60217.3					
% Recovery	90.17								
CCB				CCB	12/06/18 08:28:33 pm	-0.052	-227	13.63	
Replicates	-187.6	-261.3	-236.8	-221.2					
L1849141-30 WG1186347				UNK	12/06/18 08:30:17 pm	0.482	3281	2.36	
Replicates	3179.9	3262.8	3354.0	3326.0					
L1849141-32 WG1186347				UNK	12/06/18 08:32:00 pm	2.210	14665	1.69	
Replicates	14331.0	14647.7	14768.7	14914.3					
L1849141-34 WG1186347				UNK	12/06/18 08:33:43 pm	1.090	7262	0.61	
Replicates	7261.6	7205.0	7267.3	7312.2					
WG1186191-1 WG1186347				UNK	12/06/18 08:35:25 pm	-0.045	-185	17.10	
Replicates	-171.3	-231.7	-163.8	-171.7					
WG1186191-2 WG1186347 5X				UNK	12/06/18 08:37:08 pm	35.100	46284	1.36	
Replicates	45544.7	46002.5	46634.7	46953.3					
L1849060-03 WG1186347				UNK	12/06/18 08:38:52 pm	9.550	62862	1.40	
Replicates	61826.1	62537.7	63220.5	63862.5					
WG1186191-3 WG1186347				UNK	12/06/18 08:42:39 pm	8.860	58346	1.41	
Replicates	57287.3	58176.8	58693.3	59224.7					

Sample Name				Type	Date/Time	Conc (ppb)	µAbs	%RSD	Flags
WG1186191-4 WG1186347				UNK	12/06/18 08:46:20 pm	10.200	67362	1.76	
Replicates	65989.6	66865.7	67875.7	68718.8					
L1848383-01 WG1186347				UNK	12/06/18 08:50:21 pm	13.800	90971	1.71	
Replicates	88885.7	90774.7	91745.7	92479.3					
L1848472-02 WG1186347				UNK	12/06/18 08:54:33 pm	0.927	6209	0.92	
Replicates	6130.4	6202.8	6255.0	6248.0					
CCV				CCV	12/06/18 08:56:17 pm	9.110	59984	1.60	
Replicates	58691.3	59873.3	60454.2	60917.3					
% Recovery	91.10								
CCB				CCB	12/06/18 08:59:57 pm	-0.072	-360	5.15	
Replicates	-335.7	-357.7	-378.3	-370.2					
L1848472-03 WG1186347				UNK	12/06/18 09:01:40 pm	9.680	63704	1.64	
Replicates	62246.9	63647.5	64371.7	64549.2					
L1848946-01 WG1186347				UNK	12/06/18 09:05:15 pm	0.488	3322	1.34	
Replicates	3310.1	3280.7	3311.5	3384.8					
L1848946-02 WG1186347				UNK	12/06/18 09:06:59 pm	0.973	6509	1.72	
Replicates	6415.3	6410.3	6587.3	6623.2					
L1848969-01 WG1186347				UNK	12/06/18 09:08:43 pm	0.309	2144	2.08	
Replicates	2085.9	2149.8	2194.5	2147.3					
L1849030-01 WG1186347				UNK	12/06/18 09:10:27 pm	0.232	1641	5.18	
Replicates	1537.4	1605.0	1703.2	1717.2					
L1849049-01 WG1186347				UNK	12/06/18 09:12:10 pm	0.297	2064	3.62	
Replicates	1967.0	2144.5	2054.3	2091.0					
L1849049-02 WG1186347				UNK	12/06/18 09:13:54 pm	0.007	157	8.92	
Replicates	160.0	148.7	176.0	144.7					

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Flags
L1849060-02 WG1186347					UNK	12/06/18 09:15:37 pm	0.965	6454	1.94	
Replicates	6275.4	6460.0	6525.8	6554.0						
L1849060-04 WG1186347					UNK	12/06/18 09:17:21 pm	O/R	237828	1.05	O
Replicates	234504.1	237442.8	239130.0	240235.2						
L1849060-05 WG1186347					UNK	12/06/18 09:22:15 pm	2.920	19280	1.47	
Replicates	18900.6	19250.2	19409.2	19559.2						
CCV					CCV	12/06/18 09:23:59 pm	9.060	59625	1.29	
Replicates	58540.7	59626.8	60183.7	60150.3						
% Recovery	90.56									
CCB					CCB	12/06/18 09:27:55 pm	-0.088	-467	11.44	
Replicates	-417.6	-508.5	-517.5	-424.0						
L1848383-01 WG1186347					UNK	12/06/18 09:32:00 pm	0.915	6129	0.49	
Replicates	6094.7	6117.0	6141.7	6164.2						
L1848472-02 WG1186347					UNK	12/06/18 09:33:43 pm	9.710	63925	1.20	
Replicates	62920.9	63774.3	64299.5	64703.7						
CCV					CCV	12/06/18 09:37:21 pm	8.820	58077	0.84	
Replicates	57474.1	57968.7	58236.0	58630.0						
% Recovery	88.20									
CCB					CCB	12/06/18 09:41:13 pm	-0.097	-523	4.70	
Replicates	-528.1	-499.7	-554.8	-508.0						
L1848472-03 WG1186347					UNK	12/06/18 09:42:56 pm	0.471	3210	2.23	
Replicates	3121.0	3218.7	3205.8	3296.0						
L1848946-01 WG1186347					UNK	12/06/18 09:44:39 pm	0.977	6532	2.17	
Replicates	6351.9	6492.0	6608.2	6674.8						
L1848946-02 WG1186347					UNK	12/06/18 09:46:22 pm	0.276	1931	2.05	
Replicates	1876.3	1938.0	1938.3	1970.8						

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Flags
L1848969-01 WG1186347					UNK	12/06/18 09:48:06 pm	0.215	1529	1.18	
Replicates	1524.4	1526.3	1512.0	1554.7						
L1849030-01 WG1186347					UNK	12/06/18 09:49:51 pm	0.267	1868	1.45	
Replicates	1835.9	1873.2	1861.3	1901.0						
L1849049-01 WG1186347					UNK	12/06/18 09:51:34 pm	-0.013	31	63.86	
Replicates	54.7	32.5	6.3	30.3						
L1849049-02 WG1186347					UNK	12/06/18 09:53:17 pm	0.939	6288	2.33	
Replicates	6131.6	6270.0	6264.3	6485.8						
L1849060-02 WG1186347 5X					UNK	12/06/18 09:55:01 pm	38.900	51267	1.44	
Replicates	50284.4	51188.0	51561.2	52032.5						
L1849060-04 WG1186347					UNK	12/06/18 09:58:46 pm	2.930	19344	1.41	
Replicates	18972.3	19335.0	19457.7	19611.5						
L1849060-05 WG1186347					UNK	12/06/18 10:00:30 pm	O/R	249640	1.23	O
Replicates	245768.1	248943.2	250869.2	252981.2						
CCV					CCV	12/06/18 10:05:16 pm	8.860	58370	1.79	
Replicates	57165.7	57888.3	58923.8	59501.3						
% Recovery	88.65									
CCB					CCB	12/06/18 10:08:50 pm	-0.099	-535	1.06	
Replicates	-542.7	-530.0	-535.7	-531.7						
L1849060-06 WG1186347					UNK	12/06/18 10:10:33 pm	9.900	65179	1.48	
Replicates	63989.0	64862.7	65655.5	66207.5						
L1849064-01 WG1186347					UNK	12/06/18 10:14:26 pm	2.610	17256	1.30	
Replicates	16942.0	17265.3	17347.0	17468.0						
L1849064-02 WG1186347					UNK	12/06/18 10:16:08 pm	2.230	14785	1.46	
Replicates	14545.6	14725.8	14800.8	15066.2						

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Flags
L1849064-03 WG1186347					UNK	12/06/18 10:17:50 pm	1.960	13017	1.59	
Replicates	12731.3	13002.2	13140.0	13195.7						
L1849147-01 WG1186347					UNK	12/06/18 10:19:32 pm	0.371	2551	1.13	
Replicates	2511.6	2546.8	2570.7	2574.0						
L1849398-01 WG1186347					UNK	12/06/18 10:21:15 pm	0.483	3290	1.68	
Replicates	3256.6	3230.3	3343.7	3329.8						
L1849692-01 WG1186347					UNK	12/06/18 10:22:59 pm	-0.029	-78	19.76	
Replicates	-74.0	-100.7	-67.8	-69.2						
WG1186195-1 WG1186347					UNK	12/06/18 10:24:43 pm	-0.110	-612	7.91	
Replicates	-584.4	-618.5	-676.5	-566.7						
WG1186195-2 WG1186347 5X					UNK	12/06/18 10:26:27 pm	38.500	50687	1.43	
Replicates	49737.3	50554.8	51048.3	51406.3						
L1849143-01 WG1186347					UNK	12/06/18 10:30:03 pm	0.001	118	16.44	
Replicates	120.1	94.5	114.3	141.5						
CCV					CCV	12/06/18 10:31:47 pm	8.830	58153	1.13	
Replicates	57379.6	57991.8	58270.2	58969.8						
% Recovery	88.32									
CCB					CCB	12/06/18 10:35:23 pm	-0.107	-588	14.64	
Replicates	-533.6	-587.5	-521.3	-709.8						
WG1186195-3 WG1186347					UNK	12/06/18 10:37:05 pm	0.888	5947	1.85	
Replicates	5823.3	5886.3	6022.2	6055.8						
WG1186195-4 WG1186347					UNK	12/06/18 10:38:47 pm	0.913	6116	2.59	
Replicates	5919.1	6061.8	6208.0	6275.0						
L1849143-02 WG1186347					UNK	12/06/18 10:40:30 pm	1.110	7410	1.71	
Replicates	7329.6	7301.8	7423.8	7583.2						

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Flags
L1849143-03 WG1186347					UNK	12/06/18 10:42:14 pm	1.470	9765	2.27	
Replicates	9547.1	9609.7	9897.7	10007.2						
L1849143-04 WG1186347					UNK	12/06/18 10:43:58 pm	0.075	608	7.45	
Replicates	572.3	642.0	566.5	652.8						
L1849143-05 WG1186347					UNK	12/06/18 10:45:42 pm	0.771	5184	2.81	
Replicates	4982.7	5178.3	5257.8	5317.7						
L1849143-06 WG1186347					UNK	12/06/18 10:47:24 pm	9.140	60158	1.70	
Replicates	58870.6	59895.2	60610.0	61257.5						
L1849143-07 WG1186347					UNK	12/06/18 10:51:10 pm	-0.020	-15	399.08	
Replicates	-54.9	-66.5	-0.3	62.5						
L1849143-08 WG1186347					UNK	12/06/18 10:52:53 pm	0.045	409	9.24	
Replicates	395.1	431.3	447.5	363.0						
L1849143-09 WG1186347					UNK	12/06/18 10:54:36 pm	-0.068	-335	9.47	
Replicates	-350.0	-361.5	-340.5	-289.5						
CCV					CCV	12/06/18 10:56:19 pm	8.850	58249	1.57	
Replicates	57313.1	57790.2	58473.7	59420.3						
% Recovery	88.46									
CCB					CCB	12/06/18 10:59:32 pm	-0.114	-638	2.28	
Replicates	-629.1	-658.2	-625.7	-638.2						
L1849143-10 WG1186347					UNK	12/06/18 11:01:16 pm	0.177	1278	4.92	
Replicates	1196.4	1337.5	1316.0	1262.5						
L1849143-11 WG1186347					UNK	12/06/18 11:03:00 pm	0.412	2820	2.62	
Replicates	2794.4	2750.5	2924.2	2810.5						
L1849143-12 WG1186347					UNK	12/06/18 11:04:44 pm	0.441	3012	2.16	
Replicates	3001.0	2939.5	3010.3	3097.7						

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Flags
L1849143-13 WG1186347					UNK	12/06/18 11:06:27 pm	-0.085	-447	4.20	
Replicates	-473.6	-430.0	-442.0	-440.8						
L1849143-14 WG1186347					UNK	12/06/18 11:08:09 pm	2.070	13740	1.65	
Replicates	13441.4	13707.2	13841.2	13970.5						
L1849143-15 WG1186347					UNK	12/06/18 11:09:52 pm	-0.044	-174	21.61	
Replicates	-148.4	-158.8	-157.8	-229.5						
L1849143-16 WG1186347					UNK	12/06/18 11:11:35 pm	4.990	32912	1.52	
Replicates	32264.6	32777.0	33246.8	33360.3						
L1849143-17 WG1186347					UNK	12/06/18 11:13:18 pm	0.083	662	4.95	
Replicates	620.1	653.0	695.5	678.2						
L1849143-18 WG1186347					UNK	12/06/18 11:15:02 pm	-0.035	-113	27.87	
Replicates	-93.0	-115.2	-88.0	-157.3						
L1849143-19 WG1186347					UNK	12/06/18 11:16:47 pm	0.048	432	9.74	
Replicates	434.4	431.5	481.5	378.7						
CCV					CCV	12/06/18 11:18:30 pm	8.720	57448	1.36	
Replicates	56585.3	57096.0	57712.8	58397.5						
% Recovery	87.24									
CCB					CCB	12/06/18 11:22:09 pm	-0.137	-785	3.39	
Replicates	-773.3	-793.8	-817.8	-756.2						
L1849143-20 WG1186347					UNK	12/06/18 11:23:53 pm	0.015	210	18.53	
Replicates	178.9	211.7	184.3	263.8						
9060-03 PS					UNK	12/06/18 11:25:36 pm	13.700	89848	1.19	
Replicates	88456.4	89597.5	90462.8	90875.7						
9143-01 PS					UNK	12/06/18 11:29:50 pm	8.850	58301	1.36	
Replicates	57410.0	58006.0	58500.2	59286.8						

Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Flags
L1849060-05 WG1186347 5X					UNK	12/06/18 11:33:20 pm	43.200	56908	1.02	
	Replicates	56210.4	56728.5	57125.3	57567.8					
CCV					CCV	12/06/18 11:37:14 pm	8.700	57287	1.46	
	Replicates	56282.4	57027.3	57584.0	58254.7					
	% Recovery	87.00								
CCB					CCB	12/06/18 11:41:10 pm	-0.147	-851	3.64	
	Replicates	-827.1	-873.7	-881.7	-821.7					

MERCURY TRUE VALUE CRITERIA

ICV	3 ug/l
LCSW	1 ug/l
MS	1 ug/l
CCV	5 ug/l

As of 6/1/13, Mercury True Value criteria is as follows:

ICV	3 ug/l
LCSW	1 ug/l
MS(aq)	5 ug/l
MS(soil)	1 ug/l
CCV	10 ug/l

ERA
A Waters Company

Reference Materials

▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D098-540
Certificate Issue Date: June 29, 2017
Expiration Date: January 31, 2021
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value[6]	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	7900	6.50	3690 - 12100	3070 - 12700
Antimony	184	98.5	1.64	6.37 - 191	18.4 - 253
Arsenic	178	166	7.85	138 - 194	117 - 215
Barium	228	213	9.52	175 - 251	156 - 270
Beryllium	61.3	58.0	8.37	48.3 - 67.7	42.5 - 73.6
Boron	91.7	69.1	2.22	49.0 - 89.3	41.5 - 101
Cadmium	143	129	6.88	106 - 151	94.2 - 163
Calcium	5190	4720	6.81	3840 - 5590	3420 - 6010
Chromium	107	101	9.05	83.5 - 120	70.5 - 132
Cobalt	71.4	68.4	8.06	57.4 - 79.5	50.9 - 86.0
Copper	116	110	7.37	91.9 - 128	81.9 - 138
Iron	15000	14100	10.5	8510 - 19700	4950 - 23300
Lead	210	203	8.99	167 - 238	151 - 254
Magnesium	2570	2290	4.81	1730 - 2850	1420 - 3160
Manganese	383	370	5.74	304 - 436	280 - 460
Mercury	23.7	12.8	1.59	6.40 - 19.1	6.56 - 26.1
Molybdenum	38.8	32.4	6.16	25.5 - 39.2	20.3 - 44.4
Nickel	95.4	87.1	6.86	71.8 - 102	62.6 - 112
Potassium	2420	1990	6.19	1380 - 2610	1160 - 2830
Selenium	130	117	6.86	91.8 - 141	77.0 - 156
Silver	91.4	86.6	8.22	69.3 - 104	58.4 - 115
Sodium	690	621	6.19	458 - 785	338 - 904
Strontium	59.1	59.6	10.0	48.9 - 70.3	41.5 - 77.6
Thallium	156	142	9.14	114 - 169	96.6 - 187

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Parameter	Certified Value[1]	Reference Value[6]	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	151	135	6.93	106 - 165	80.1 - 191
Titanium	450	336	3.79	65.5 - 606	69.8 - 601
Uranium	110	109	7.77	83.0 - 135	75.4 - 143
Vanadium	104	97.0	8.44	76.9 - 117	63.1 - 131
Zinc	254	240	4.89	194 - 286	170 - 311

ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	7900	78.2	149	-	-
Antimony	184	98.5	53.5	156	-	-
Arsenic	178	166	93.3	192	-	-
Barium	228	213	93.4	165	-	-
Beryllium	61.3	58.0	94.6	165	-	-
Boron	91.7	69.1	75.4	108	-	-
Cadmium	143	129	89.9	189	-	-
Calcium	5190	4720	90.9	131	-	-
Chromium	107	101	94.9	184	-	-
Cobalt	71.4	68.4	95.9	154	-	-
Copper	116	110	94.6	183	-	-
Iron	15000	14100	93.9	144	-	-
Lead	210	203	96.5	200	-	-
Magnesium	2570	2290	89.1	137	-	-
Manganese	383	370	96.6	158	-	-
Mercury	23.7	12.8	53.8	128	-	-
Molybdenum	38.8	32.4	83.5	154	-	-
Nickel	95.4	87.1	91.3	184	-	-
Potassium	2420	1990	82.4	131	-	-
Selenium	130	117	89.7	179	-	-

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Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Silver	91.4	86.6	94.8	158	-	-
Sodium	690	621	90.0	125	-	-
Strontium	59.1	59.6	101	93	-	-
Thallium	156	142	90.8	161	-	-
Tin	151	135	89.6	109	-	-
Titanium	450	336	74.6	104	-	-
Uranium	110	109	99.2	31	-	-
Vanadium	104	97.0	93.3	153	-	-
Zinc	254	240	94.6	182	-	-

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▪ Certificate of Analysis ▪

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)**are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.
Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. The **Reference Values** are equal to the mean recoveries for the parameters as determined in an interlaboratory round robin study. The **Reference Values** represent the expected performance for the analytes in this standard. ERA recommends using the **Reference Values** when assessing or evaluating your results.

7. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Brian Miller

Quality Officer

Patrick Larson

Pat Larson

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▪ Certificate of Analysis ▪

Product: Metals in Soil
Catalog Number: 540
Lot No. D102-540
Certificate Issue Date: June 22, 2018
Expiration Date: January 31, 2022
Revision Number: Original

Product use instructions are included as part of the certification packet and are paginated separately from this Certificate of Analysis. Please reference the product use instructions for catalog #540 revision 030512.

CERTIFICATION

Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Aluminum	10100	8160	6.36	3960 - 12400	4080 - 12200
Antimony	120	60.9	9.42	0.822 - 121	12.0 - 166
Arsenic	144	135	5.08	112 - 158	94.6 - 176
Barium	469	443	6.77	366 - 521	332 - 554
Beryllium	207	197	5.86	164 - 229	148 - 246
Boron	213	174	12.6	127 - 221	105 - 244
Cadmium	224	204	6.65	169 - 240	153 - 256
Calcium	5190	4830	9.12	3950 - 5700	3510 - 6150
Chromium	138	132	8.56	109 - 155	92.2 - 171
Cobalt	182	179	7.93	151 - 207	134 - 224
Copper	191	184	6.72	155 - 213	138 - 230
Iron	15000	14400	10.7	8770 - 20000	5120 - 23600
Lead	225	216	7.72	178 - 254	159 - 274
Magnesium	2570	2340	6.13	1780 - 2900	1460 - 3230
Manganese	331	323	6.71	266 - 380	242 - 404
Mercury	16.8	13.2	16.0	8.64 - 17.7	7.89 - 18.5
Molybdenum	193	175	2.39	141 - 209	125 - 226
Nickel	163	152	5.95	126 - 178	106 - 197
Potassium	2420	2050	6.31	1440 - 2660	1210 - 2890
Selenium	81.9	74.9	4.13	59.3 - 90.5	47.0 - 103
Silver	57.6	53.9	9.00	43.0 - 64.8	37.8 - 70.0
Sodium	161	149	12.1	111 - 188	57.7 - 241
Strontium	100	96.2	4.04	78.1 - 114	69.0 - 123
Thallium	253	232	3.54	188 - 276	168 - 296

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Parameter	Certified Value[1]	Reference Value	Uncertainty[2]	QC Performance Acceptance Limits[3]	PT Performance Acceptance Limits[4]
	mg/kg	mg/kg	%	mg/kg	mg/kg
Tin	146	134	10.8	106 - 163	79.5 - 189
Titanium	449	340	7.20	70.2 - 609	44.9 - 711
Uranium	114	113	7.10	85.5 - 140	71.9 - 153
Vanadium	180	172	8.85	137 - 207	126 - 218
Zinc	217	211	6.58	171 - 250	147 - 274

ANALYTICAL VERIFICATION

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Aluminum	10100	8160	80.8	138	-	-
Antimony	120	60.9	50.8	135	-	-
Arsenic	144	135	93.8	184	-	-
Barium	469	443	94.5	158	-	-
Beryllium	207	197	95.0	148	-	-
Boron	213	174	81.8	107	-	-
Cadmium	224	204	91.3	199	-	-
Calcium	5190	4830	93.0	122	-	-
Chromium	138	132	95.5	172	-	-
Cobalt	182	179	98.4	140	-	-
Copper	191	184	96.3	183	-	-
Iron	15000	14400	95.6	133	-	-
Lead	225	216	96.2	204	-	-
Magnesium	2570	2340	91.2	122	-	-
Manganese	331	323	97.6	147	-	-
Mercury	16.8	13.2	78.3	128	-	-
Molybdenum	193	175	90.8	143	-	-
Nickel	163	152	93.1	185	-	-
Potassium	2420	2050	84.7	121	-	-
Selenium	81.9	74.9	91.5	163	-	-

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▪ Certificate of Analysis ▪

Parameter	Certified Value[1]	Proficiency Testing Study			NIST Traceability	
		Mean	Recovery[5]	n	SRM Number	Recovery
	mg/kg	mg/kg	%			%
Silver	57.6	53.9	93.6	150	-	-
Sodium	161	149	92.8	105	-	-
Strontium	100	96.2	96.2	90	-	-
Thallium	253	232	91.6	147	-	-
Tin	146	134	92.0	100	-	-
Titanium	449	340	75.6	93	-	-
Uranium	114	113	98.8	35	-	-
Vanadium	180	172	95.4	139	-	-
Zinc	217	211	97.0	180	-	-

1. The **Certified Values** are the actual "made-to" concentrations confirmed by ERA analytical verification. The certified values are monitored and purchasers will be notified of any significant changes resulting in recertification or withdrawal of this certified reference material during the period of validity of this certificate.

2. The **Uncertainty** is the total propagated uncertainty at the 95% confidence interval. The uncertainty is based on the preparation and internal analytical verification of the product by ERA, multiplied by a coverage factor. The uncertainty applies to the product as supplied and does not take into account any required or optional dilution and/or preparations the laboratory may perform while using this product.

3. The **QC Performance Acceptance Limits (QC PALs™)**are based on actual historical data collected in ERA's Proficiency Testing program. The QC PALs™ reflect any inherent biases in the methods used to establish the limits and closely approximate a 95% confidence interval of the performance that experienced laboratories should achieve using accepted environmental methods. Use the QC PALs™ to realistically evaluate your performance against your peers.

4. The **PT Performance Acceptance Limits (PT PALs™)** are calculated using the regression equations and fixed acceptance criteria specified in the NELAC proficiency testing requirements. Use the PT PALs™ when analyzing this QC standard alongside USEPA and NELAC compliant PT standards. Please note that many PT study acceptance limits are concentration dependent (some non-linearly) and, therefore, the acceptance limits of this QC standard and any PT standard may differ relative to their difference in concentrations.

5. The **PT Data/Traceability** data include the mean value, percent recovery and number of data points reported by the laboratories in our Proficiency Testing study compared to the Certified Values. In addition, where NIST Standard Reference Materials (SRMs) are available, each analyte has been analytically traced to the NIST SRM listed. This product is traceable to the lot numbers of its starting materials. All gravimetric and volumetric measurements related to its manufacture are traceable to NIST through an unbroken chain of comparisons.
Traceability Recovery (%) = [(% recovery certified standard)/(% recovery NIST SRM)]*100
The traceability data shown were compiled by analyzing the ERA standards or their associated stock solutions against the applicable NIST SRMs.

6. For additional information on this product such as intended use, instructions for use, level of homogeneity, and safety information, please refer to the provided Instruction Sheet

If you have any questions or need technical assistance, please call ERA technical assistance at 1-800-372-0122 or send an email to info@eraqc.com.

Certifying Officer

Brian Miller

Quality Officer

Matthew Seebeck

ISO/IEC GUIDE 34:2009 ACCREDITED REFERENCE MATERIAL PRODUCER CERTIFICATE NO. 1539.03

ISO/IEC 17025:2005 ACCREDITED CHEMICAL TESTING LABORATORY CERTIFICATE NO. 1539.02

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Calculation of 7470A Mercury

Calculate Mercury concentration from the daily calibration curve. The curve is generated utilizing a straight-line equation defined as:

$$A = k1 + k2C$$

Where:

A = Average peak height of the sample/standard integrations
C = Sample/Standard Concentration, µg/L
k1 = y-intercept
k2 = slope

The instrument will plot peak height against concentration (µg/L). The result is generated in µg/L . This value is divided by 1000 to convert the units to mg/L. If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

Result, mg/L = (concentration, µg/L) x (1mg/1000µg) x (DF)

Calculation of 7471B Mercury

Calculate Mercury concentration from the daily calibration curve. The curve is generated utilizing a straight-line equation defined as:

$$A = k1 + k2C$$

Where:

A = Average peak height of the sample/standard integrations
C = Sample/Standard Concentration, µg/L
k1 = y-intercept
k2 = slope

The instrument will plot peak height against concentration (µg/L). The result is generated in µg/L . This value is divided by 1000 to convert the units to mg/L. If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

Result, mg/L = (concentration, µg/L) x (1mg/1000µg) x (DF)

The result in mg/kg is calculated on a dry weight basis using the sample weight digested(Wt), the final volume of the digestate(FV), and the percent total solids(%TS).

Result, mg/kg, wet = ((result, mg/L) x (FV)) /Wt

Result, mg/kg, dry wt = (Result, mg/kg wet)/(%TS)

REVIEWED
By drm at 10:02 am, Dec 07, 2018

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                                        00
S:2     rinse   0           1.0000          1.0000          1.0000
S:2     Calibration Blank       1           1.0000          1.0000
1.0000
S:4     Standard #1     1           1.0000          1.0000          1.0000
S:6     Standard #2     1           1.0000          1.0000          1.0000
S:8     Standard #3     1           1.0000          1.0000          1.0000
S:10    Standard #4     1           1.0000          1.0000          1.0000
S:1     Standard #5     1           1.0000          1.0000          1.0000
S:3     Standard #6     1           1.0000          1.0000          1.0000
S:5     ICV     6           1.0000          1.0000          1.0000
S:7     ICB     4           1.0000          1.0000          1.0000
S:4     0.5 PPB 0           1.0000          1.0000          1.0000
S:9     CCV     5           1.0000          1.0000          1.0000
S:7     CCB     3           1.0000          1.0000          1.0000
1:1     WG1186153-1 WG1186347   0           1.0000          1.0000
1.0000
1:2     WG1186153-2 WG1186347 5X        0           1.0000          5.0000
  5.0000
1:3     WG1186153-3 WG1186347 5X        0           1.0000          5.0000
  5.0000
1:4     L1849272-01 WG1186347   0           1.0000          1.0000
1.0000
1:5     WG1186153-4 WG1186347   0           1.0000          1.0000
1.0000
1:6     L1849026-01 WG1186347   0           1.0000          1.0000
1.0000
1:7     L1849101-01 WG1186347   0           1.0000          1.0000
1.0000
1:5     WG1186153-4 WG1186347   0           1.0000          1.0000
1.0000
S:9     CCV     5           1.0000          1.0000          1.0000
S:7     CCB     3           1.0000          1.0000          1.0000
1:8     WG1186190-1 WG1186347   0           1.0000          1.0000
1.0000
1:9     WG1186190-2 WG1186347 5X        0           1.0000          5.0000
  5.0000
1:10    L1849804-01 WG1186347   0           1.0000          1.0000
1.0000
1:11    WG1186190-3 WG1186347   0           1.0000          1.0000
1.0000
1:12    WG1186190-4 WG1186347   0           1.0000          1.0000
1.0000
1:13    9804-01 PS      0           1.0000          1.0000          1.0000
S:9     CCV     5           1.0000          1.0000          1.0000
S:7     CCB     3           1.0000          1.0000          1.0000
1:14    WG1186151-1 WG1186147   0           1.0000          1.0000
1.0000
1:15    WG1186151-2 WG1186147 5X        0           1.0000          5.0000
  5.0000
1:16    WG1186151-3 WG1186147 5X        0           1.0000          5.0000
  5.0000
1:17    L1848646-01 WG1186147   0           1.0000          1.0000
1.0000
1:18    L1848668-01 WG1186147   0           1.0000          1.0000
1.0000
1:19    L1848706-01 WG1186147   0           1.0000          1.0000
1.0000
S:9     CCV     5           1.0000          1.0000          1.0000
S:7     CCB     3           1.0000          1.0000          1.0000
1:1     L1848765-01 WG1186347   0           1.0000          1.0000
1.0000
1:2     L1848765-02 WG1186347   0           1.0000          1.0000
1.0000
1:3     L1848765-03 WG1186347   0           1.0000          1.0000
1.0000
1:4     L1848765-04 WG1186347   0           1.0000          1.0000
1.0000
1:5     L1848765-06 WG1186347   0           1.0000          1.0000
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1.0000						
1:6	L1848879-02	WG1186347	0		1.0000	1.0000
1.0000						
1:7	L1848879-04	WG1186347	0		1.0000	1.0000
1.0000						
1:8	L1848879-06	WG1186347	0		1.0000	1.0000
1.0000						
1:9	L1848879-08	WG1186347	0		1.0000	1.0000
1.0000						
1:10	L1848879-10	WG1186347	0		1.0000	1.0000
1.0000						
S:9	CCV	5		1.0000	1.0000	1.0000
S:7	CCB	3		1.0000	1.0000	1.0000
1:11	L1848885-01	WG1186347	0		1.0000	1.0000
1.0000						
1:12	L1848885-02	WG1186347	0		1.0000	1.0000
1.0000						
1:13	L1849103-01	WG1186347	0		1.0000	1.0000
1.0000						
1:14	L1849103-03	WG1186347	0		1.0000	1.0000
1.0000						
1:15	L1849103-05	WG1186347	0		1.0000	1.0000
1.0000						
1:16	L1849103-07	WG1186347	0		1.0000	1.0000
1.0000						
1:17	L1849103-09	WG1186347	0		1.0000	1.0000
1.0000						
1:18	WG1186151-4	WG1186347	0		1.0000	1.0000
1.0000						
1:19	WG1186151-5	WG1186347	0		1.0000	1.0000
1.0000						
1:18	WG1186151-4	WG1186347	0		1.0000	1.0000
1.0000						
S:9	CCV	5		1.0000	1.0000	1.0000
S:7	CCB	3		1.0000	1.0000	1.0000
1:1	L1848954-01	WG1186347	0		1.0000	1.0000
1.0000						
1:2	L1849254-03	WG1186347	0		1.0000	1.0000
1.0000						
1:3	L1849254-04	WG1186347	0		1.0000	1.0000
1.0000						
1:4	L1849254-05	WG1186347	0		1.0000	1.0000
1.0000						
1:5	L1849254-06	WG1186347	0		1.0000	1.0000
1.0000						
1:6	L1849255-01	WG1186347	0		1.0000	1.0000
1.0000						
1:7	L1849255-02	WG1186347	0		1.0000	1.0000
1.0000						
1:8	L1849260-01	WG1186347	0		1.0000	1.0000
1.0000						
1:9	L1849272-03	WG1186347	0		1.0000	1.0000
1.0000						
1:10	L1849298-01	WG1186347	0		1.0000	1.0000
1.0000						
S:9	CCV	5		1.0000	1.0000	1.0000
S:7	CCB	3		1.0000	1.0000	1.0000
1:11	L1849298-03	WG1186347	0		1.0000	1.0000
1.0000						
1:12	L1849322-01	WG1186347	0		1.0000	1.0000
1.0000						
1:13	L1849481-01	WG1186347	0		1.0000	1.0000
1.0000						
1:14	L1849481-02	WG1186347	0		1.0000	1.0000
1.0000						
1:15	L1849489-04	WG1186347	0		1.0000	1.0000
1.0000						
1:16	L1849567-01	WG1186347	0		1.0000	1.0000

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1.0000
1:17    L1849773-01 WG1186347   0           1.0000          1.0000
1.0000
S:9     CCV     5           1.0000          1.0000          1.0000
S:7     CCB     3           1.0000          1.0000          1.0000
1:1     L1848959-02 WG1186347   0           1.0000          1.0000
1.0000
1:2     L1848959-04 WG1186347   0           1.0000          1.0000
1.0000
1:3     L1848959-06 WG1186347   0           1.0000          1.0000
1.0000
1:4     L1848959-08 WG1186347   0           1.0000          1.0000
1.0000
1:5     L1848971-01 WG1186347   0           1.0000          1.0000
1.0000
1:6     L1849088-01 WG1186347   0           1.0000          1.0000
1.0000
1:7     L1849088-02 WG1186347   0           1.0000          1.0000
1.0000
1:8     L1849088-03 WG1186347   0           1.0000          1.0000
1.0000
1:9     L1849088-04 WG1186347   0           1.0000          1.0000
1.0000
1:10    L1849088-05 WG1186347   0           1.0000          1.0000
1.0000
S:9     CCV     5           1.0000          1.0000          1.0000
S:7     CCB     3           1.0000          1.0000          1.0000
1:11    L1849088-06 WG1186347   0           1.0000          1.0000
1.0000
1:12    L1849088-07 WG1186347   0           1.0000          1.0000
1.0000
1:13    L1849088-08 WG1186347   0           1.0000          1.0000
1.0000
1:14    L1849088-09 WG1186347   0           1.0000          1.0000
1.0000
1:15    L1849088-10 WG1186347   0           1.0000          1.0000
1.0000
1:16    L1849088-12 WG1186347   0           1.0000          1.0000
1.0000
1:17    L1849088-13 WG1186347   0           1.0000          1.0000
1.0000
1:18    L1849088-14 WG1186347   0           1.0000          1.0000
1.0000
1:19    L1849088-18 WG1186347   0           1.0000          1.0000
1.0000
S:9     CCV     5           1.0000          1.0000          1.0000
S:7     CCB     3           1.0000          1.0000          1.0000
S:9     CCV     0           1.0000          1.0000          1.0000
S:7     CCB     0           1.0000          1.0000          1.0000
1:1     WG1186152-1 WG1186347   0           1.0000          1.0000
1.0000
1:2     WG1186152-2 WG1186347 5X        0           1.0000          5.0000
  5.0000
1:3     WG1186152-3 WG1186347 5X        0           1.0000          5.0000
  5.0000
1:4     L1849000-01 WG1186347   0           1.0000          1.0000
1.0000
1:5     L1849016-01 WG1186347   0           1.0000          1.0000
1.0000
1:6     L1849016-02 WG1186347   0           1.0000          1.0000
1.0000
1:7     L1849141-02 WG1186347   0           1.0000          1.0000
1.0000
1:8     L1849141-04 WG1186347   0           1.0000          1.0000
1.0000
1:9     L1849141-06 WG1186347   0           1.0000          1.0000
1.0000
1:10    L1849141-08 WG1186347   0           1.0000          1.0000
```

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1.0000
S:9 CCV 5 1.0000 1.0000 1.0000
S:7 CCB 3 1.0000 1.0000 1.0000
1:11 L1849141-10 WG1186347 0 1.0000 1.0000
1.0000
1:12 L1849141-12 WG1186347 0 1.0000 1.0000
1.0000
1:13 L1849141-14 WG1186347 0 1.0000 1.0000
1.0000
1:14 L1849141-16 WG1186347 0 1.0000 1.0000
1.0000
1:15 L1849141-18 WG1186347 0 1.0000 1.0000
1.0000
1:16 L1849141-20 WG1186347 0 1.0000 1.0000
1.0000
1:17 L1849141-22 WG1186347 0 1.0000 1.0000
1.0000
1:18 L1849141-24 WG1186347 0 1.0000 1.0000
1.0000
1:19 L1849141-26 WG1186347 0 1.0000 1.0000
1.0000
1:20 L1849141-28 WG1186347 0 1.0000 1.0000
1.0000
S:9 CCV 5 1.0000 1.0000 1.0000
S:7 CCB 3 1.0000 1.0000 1.0000
1:21 L1849141-30 WG1186347 0 1.0000 1.0000
1.0000
2:1 L1849141-32 WG1186347 0 1.0000 1.0000
1.0000
2:2 L1849141-34 WG1186347 0 1.0000 1.0000
1.0000
2:3 WG1186191-1 WG1186347 0 1.0000 1.0000
1.0000
2:4 WG1186191-2 WG1186347 5X 0 1.0000 5.0000
5.0000
2:5 L1849060-03 WG1186347 0 1.0000 1.0000
1.0000
2:6 WG1186191-3 WG1186347 0 1.0000 1.0000
1.0000
2:7 WG1186191-4 WG1186347 0 1.0000 1.0000
1.0000
2:8 L1848383-01 WG1186347 0 1.0000 1.0000
1.0000
2:9 L1848472-02 WG1186347 0 1.0000 1.0000
1.0000
S:9 CCV 5 1.0000 1.0000 1.0000
S:7 CCB 3 1.0000 1.0000 1.0000
2:10 L1848472-03 WG1186347 0 1.0000 1.0000
1.0000
2:11 L1848946-01 WG1186347 0 1.0000 1.0000
1.0000
2:12 L1848946-02 WG1186347 0 1.0000 1.0000
1.0000
2:13 L1848969-01 WG1186347 0 1.0000 1.0000
1.0000
2:14 L1849030-01 WG1186347 0 1.0000 1.0000
1.0000
2:15 L1849049-01 WG1186347 0 1.0000 1.0000
1.0000
2:16 L1849049-02 WG1186347 0 1.0000 1.0000
1.0000
2:17 L1849060-02 WG1186347 0 1.0000 1.0000
1.0000
2:18 L1849060-04 WG1186347 0 1.0000 1.0000
1.0000
2:19 L1849060-05 WG1186347 0 1.0000 1.0000
1.0000
S:9 CCV 5 1.0000 1.0000 1.0000

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S:7	CCB	3		1.0000	1.0000	1.0000	
2:8	L1848383-01	WG1186347		0	1.0000	1.0000	1.0000
2:9	L1848472-02	WG1186347		0	1.0000	1.0000	1.0000
S:9	CCV	5		1.0000	1.0000	1.0000	
S:7	CCB	3		1.0000	1.0000	1.0000	
2:10	L1848472-03	WG1186347		0	1.0000	1.0000	1.0000
2:11	L1848946-01	WG1186347		0	1.0000	1.0000	1.0000
2:12	L1848946-02	WG1186347		0	1.0000	1.0000	1.0000
2:13	L1848969-01	WG1186347		0	1.0000	1.0000	1.0000
2:14	L1849030-01	WG1186347		0	1.0000	1.0000	1.0000
2:15	L1849049-01	WG1186347		0	1.0000	1.0000	1.0000
2:16	L1849049-02	WG1186347		0	1.0000	1.0000	1.0000
2:17	L1849060-02	WG1186347	5X	0	1.0000	5.0000	5.0000
2:18	L1849060-04	WG1186347		0	1.0000	1.0000	1.0000
2:19	L1849060-05	WG1186347		0	1.0000	1.0000	1.0000
S:9	CCV	5		1.0000	1.0000	1.0000	
S:7	CCB	3		1.0000	1.0000	1.0000	
2:20	L1849060-06	WG1186347		0	1.0000	1.0000	1.0000
2:21	L1849064-01	WG1186347		0	1.0000	1.0000	1.0000
1:1	L1849064-02	WG1186347		0	1.0000	1.0000	1.0000
1:2	L1849064-03	WG1186347		0	1.0000	1.0000	1.0000
1:3	L1849147-01	WG1186347		0	1.0000	1.0000	1.0000
1:4	L1849398-01	WG1186347		0	1.0000	1.0000	1.0000
1:5	L1849692-01	WG1186347		0	1.0000	1.0000	1.0000
1:6	WG1186195-1	WG1186347		0	1.0000	1.0000	1.0000
1:7	WG1186195-2	WG1186347	5X	0	1.0000	5.0000	5.0000
1:8	L1849143-01	WG1186347		0	1.0000	1.0000	1.0000
S:9	CCV	5		1.0000	1.0000	1.0000	
S:7	CCB	3		1.0000	1.0000	1.0000	
1:9	WG1186195-3	WG1186347		0	1.0000	1.0000	1.0000
1:10	WG1186195-4	WG1186347		0	1.0000	1.0000	1.0000
1:11	L1849143-02	WG1186347		0	1.0000	1.0000	1.0000
1:12	L1849143-03	WG1186347		0	1.0000	1.0000	1.0000
1:13	L1849143-04	WG1186347		0	1.0000	1.0000	1.0000
1:14	L1849143-05	WG1186347		0	1.0000	1.0000	1.0000
1:15	L1849143-06	WG1186347		0	1.0000	1.0000	1.0000
1:16	L1849143-07	WG1186347		0	1.0000	1.0000	1.0000
1:17	L1849143-08	WG1186347		0	1.0000	1.0000	

00
1.0000
1:18 L1849143-09 WG1186347 0 1.0000 1.0000
1.0000
S:9 CCV 5 1.0000 1.0000 1.0000
S:7 CCB 3 1.0000 1.0000 1.0000
1:19 L1849143-10 WG1186347 0 1.0000 1.0000
1.0000
1:20 L1849143-11 WG1186347 0 1.0000 1.0000
1.0000
1:21 L1849143-12 WG1186347 0 1.0000 1.0000
1.0000
2:1 L1849143-13 WG1186347 0 1.0000 1.0000
1.0000
2:2 L1849143-14 WG1186347 0 1.0000 1.0000
1.0000
2:3 L1849143-15 WG1186347 0 1.0000 1.0000
1.0000
2:4 L1849143-16 WG1186347 0 1.0000 1.0000
1.0000
2:5 L1849143-17 WG1186347 0 1.0000 1.0000
1.0000
2:6 L1849143-18 WG1186347 0 1.0000 1.0000
1.0000
2:7 L1849143-19 WG1186347 0 1.0000 1.0000
1.0000
S:9 CCV 5 1.0000 1.0000 1.0000
S:7 CCB 3 1.0000 1.0000 1.0000
2:8 L1849143-20 WG1186347 0 1.0000 1.0000
1.0000
2:9 9060-03 PS 0 1.0000 1.0000 1.0000
2:10 9143-01 PS 0 1.0000 1.0000 1.0000
2:11 L1849060-05 WG1186347 5X 0 1.0000 5.0000
5.0000
S:9 CCV 5 1.0000 1.0000 1.0000
S:7 CCB 3 1.0000 1.0000 1.0000

METALS ELN REPORT

Workgroup: WG1186191

Digestion

Prep Method	Acid Type 1	Acid 1 Lot	Spike Type	Lims Spike Lot	Spike Lot	Post Spike Spikelot	Spike Lot	Srm Spikelot	Use Srm For Lcs	Pipette Id
EPA 7471B	Aqua Regia	AR1849060420RB	METALS	METSPIKE	HG1846141100MG	METSPIKE	ICV1849051530MG	D102-540	Y	230,140

Additional Reagent/Std	KMnO4	PP1849050350RB
	NaCl-NH2OH.HCl	HH1849031600MG

Sample/ Type	Digestion Date	Analyst	Sample Weight g	Balance Id	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L1848383-01 SOLID	12/06/18 08:00	Rexford Bempong	0.392	15		12/06/18 08:00	2081	95.0	12/06/18 08:30	50	
L1848472-02 SOIL	12/06/18 08:00	Rexford Bempong	0.399	15		12/06/18 08:00	2081	95.0	12/06/18 08:30	50	
L1848472-03 SOIL	12/06/18 08:00	Rexford Bempong	0.398	15		12/06/18 08:00	2081	95.0	12/06/18 08:30	50	
L1848946-01 SOIL	12/06/18 08:00	Rexford Bempong	0.399	15		12/06/18 08:00	2081	95.0	12/06/18 08:30	50	
L1848946-02 SOIL	12/06/18 08:00	Rexford Bempong	0.399	15		12/06/18 08:00	2081	95.0	12/06/18 08:30	50	
L1848969-01 SOIL	12/06/18 08:00	Rexford Bempong	0.399	15		12/06/18 08:00	2081	95.0	12/06/18 08:30	50	
L1849030-01 SOIL	12/06/18 08:00	Rexford Bempong	0.399	15		12/06/18 08:00	2081	95.0	12/06/18 08:30	50	
L1849049-01 SOIL	12/06/18 08:00	Rexford Bempong	0.394	15		12/06/18 08:00	2081	95.0	12/06/18 08:30	50	
L1849049-02 SOIL	12/06/18 08:00	Rexford Bempong	0.398	15		12/06/18 08:00	2081	95.0	12/06/18 08:30	50	
L1849060-02 SAMP	12/06/18 08:00	Rexford Bempong	0.391	15		12/06/18 08:00	2081	95.0	12/06/18 08:30	50	
L1849060-03 SAMP	12/06/18 08:00	Rexford Bempong	0.399	15		12/06/18 08:00	2081	95.0	12/06/18 08:30	50	
L1849060-04 SAMP	12/06/18 08:00	Rexford Bempong	0.399	15		12/06/18 08:00	2081	95.0	12/06/18 08:30	50	
L1849060-05 SAMP	12/06/18 08:00	Rexford Bempong	0.398	15		12/06/18 08:00	2081	95.0	12/06/18 08:30	50	

Reported: 07-DEC-18 06:31 PM

METALS ELN REPORT

Workgroup: WG1186191

Sample/ Type	Digestion Date	Analyst	Sample Weight g	Balance Id	Spike Amt ml	Start Date/Time	Hot Block Unit	Temperature (C)	Stop Date/Time	Final Vol	Comments
L1849060-06 SAMP	12/06/18 08:00	Rexford Bempong	0.394	15		12/06/18 08:00	2081	95.0	12/06/18 08:30	50	
L1849064-01 SOLID	12/06/18 08:00	Rexford Bempong	0.398	15		12/06/18 08:00	2081	95.0	12/06/18 08:30	50	
L1849064-02 SOLID	12/06/18 08:00	Rexford Bempong	0.399	15		12/06/18 08:00	2081	95.0	12/06/18 08:30	50	
L1849064-03 SOLID	12/06/18 08:00	Rexford Bempong	0.395	15		12/06/18 08:00	2081	95.0	12/06/18 08:30	50	
L1849147-01 SOIL	12/06/18 08:00	Rexford Bempong	0.398	15		12/06/18 08:00	2081	95.0	12/06/18 08:30	50	
L1849398-01 SOIL	12/06/18 08:00	Rexford Bempong	0.399	15		12/06/18 08:00	2081	95.0	12/06/18 08:30	50	
L1849692-01 SOIL	12/06/18 08:00	Rexford Bempong	0.399	15		12/06/18 08:00	2081	95.0	12/06/18 08:30	50	
WG1186191-1 BLANK	12/06/18 08:00	Rexford Bempong	0.300	15		12/06/18 08:00	2081	95.0	12/06/18 08:30	50	
WG1186191-2 LCS	12/06/18 08:00	Rexford Bempong	0.157	15	0.157	12/06/18 08:00	2081	95.0	12/06/18 08:30	50	
WG1186191-3 MS	12/06/18 08:00	Rexford Bempong	0.398	15	0.5	12/06/18 08:00	2081	95.0	12/06/18 08:30	50	
WG1186191-4 MSD	12/06/18 08:00	Rexford Bempong	0.397	15	0.5	12/06/18 08:00	2081	95.0	12/06/18 08:30	50	

Reagent	Actual Volume	Units
Aqua Regia	2.5	ml
Potassium Permanganat	7.5	ml
NaCl-Hydroxylamine Hy	3	ml

Reported: 07-DEC-18 06:31 PM

Wet Chemistry

Cyanide Analysis

Results

Form 1
WETCHEM

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Lab ID	: L1849060-02	**Date Collected**	: 11/30/18 09:05
Client ID	: CB-02	**Date Received**	: 11/30/18
Sample Location	: PORT OF ALBANY	**Date Analyzed**	: 12/04/18 14:12
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 1,9010C	**Analyst**	: LHK
Lab File ID	: --	**Instrument ID**	:
Sample Amount	:	**%Solids**	: 66
Digestion Method	: NO PREP	**Date Digested**	: 12/03/18

		mg/kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-12-5	Cyanide, Amenable	ND	1.5	1.5	U

Form 1
WETCHEM

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Lab ID	: L1849060-03	**Date Collected**	: 11/30/18 09:25
Client ID	: CB-03	**Date Received**	: 11/30/18
Sample Location	: PORT OF ALBANY	**Date Analyzed**	: 12/04/18 14:12
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 1,9010C	**Analyst**	: LHK
Lab File ID	: --	**Instrument ID**	:
Sample Amount	:	**%Solids**	: 50
Digestion Method	: NO PREP	**Date Digested**	: 12/03/18

		mg/kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-12-5	Cyanide, Amenable	ND	2.0	2.0	U

Form 1
WETCHEM

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Lab ID	: L1849060-04	**Date Collected**	: 11/30/18 09:45
Client ID	: CB-04	**Date Received**	: 11/30/18
Sample Location	: PORT OF ALBANY	**Date Analyzed**	: 12/04/18 14:12
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 1,9010C	**Analyst**	: LHK
Lab File ID	: --	**Instrument ID**	:
Sample Amount	:	**%Solids**	: 86
Digestion Method	: NO PREP	**Date Digested**	: 12/03/18

		mg/kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-12-5	Cyanide, Amenable	ND	1.2	1.2	U

Form 1
WETCHEM

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Lab ID	: L1849060-05	**Date Collected**	: 11/30/18 10:10
Client ID	: CB-01	**Date Received**	: 11/30/18
Sample Location	: PORT OF ALBANY	**Date Analyzed**	: 12/04/18 14:12
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 1,9010C	**Analyst**	: LHK
Lab File ID	: --	**Instrument ID**	:
Sample Amount	:	**%Solids**	: 73
Digestion Method	: NO PREP	**Date Digested**	: 12/03/18

		mg/kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-12-5	Cyanide, Amenable	ND	1.4	1.4	U

Form 1
WETCHEM

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Lab ID	: L1849060-06	**Date Collected**	: 11/30/18 12:00
Client ID	: DUP-01	**Date Received**	: 11/30/18
Sample Location	: PORT OF ALBANY	**Date Analyzed**	: 12/04/18 14:12
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 1,9010C	**Analyst**	: LHK
Lab File ID	: --	**Instrument ID**	:
Sample Amount	:	**%Solids**	: 49
Digestion Method	: NO PREP	**Date Digested**	: 12/03/18

		mg/kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-12-5	Cyanide, Amenable	ND	2.0	2.0	U

Form 1
WETCHEM

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Lab ID	: WG1184980-1	**Date Collected**	: NA
Client ID	: WG1184980-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 12/04/18 14:12
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 1,9010C	**Analyst**	: LHK
Lab File ID	: --	**Instrument ID**	:
Sample Amount	:	**%Solids**	: NA
Digestion Method	: NO PREP	**Date Digested**	: 12/03/18

		mg/kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-12-5	Cyanide, Amenable	ND	1.0	1.0	U

Form 1
WETCHEM

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Lab ID	: WG1184980-3	**Date Collected**	: 11/30/18 09:25
Client ID	: CB-03DUP	**Date Received**	: 11/30/18
Sample Location	:	**Date Analyzed**	: 12/04/18 14:12
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 1,9010C	**Analyst**	: LHK
Lab File ID	: --	**Instrument ID**	:
Sample Amount	:	**%Solids**	: 50
Digestion Method	: NO PREP	**Date Digested**	: 12/03/18

		mg/kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-12-5	Cyanide, Amenable	ND	2.0	2.0	U

Form 1
WETCHEM

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Lab ID	: L1849060-02	**Date Collected**	: 11/30/18 09:05
Client ID	: CB-02	**Date Received**	: 11/30/18
Sample Location	: PORT OF ALBANY	**Date Analyzed**	: 12/04/18 13:47
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 1,9010C/9012B	**Analyst**	: LHK
Lab File ID	: OM_12-4-2018_12-52-41PM	**Instrument ID**	: LACHAT
Sample Amount	: 1.0915g	**%Solids**	: 66
Digestion Method	:	**Date Digested**	: 12/03/18

		mg/kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-12-5	Cyanide, Total	0.86	1.4	0.29	J

Form 1
WETCHEM

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Lab ID	: L1849060-03	**Date Collected**	: 11/30/18 09:25
Client ID	: CB-03	**Date Received**	: 11/30/18
Sample Location	: PORT OF ALBANY	**Date Analyzed**	: 12/04/18 13:48
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 1,9010C/9012B	**Analyst**	: LHK
Lab File ID	: OM_12-4-2018_12-52-41PM	**Instrument ID**	: LACHAT
Sample Amount	: 1g	**%Solids**	: 50
Digestion Method	:	**Date Digested**	: 12/03/18

		mg/kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-12-5	Cyanide, Total	0.67	2.0	0.42	J

Form 1
WETCHEM

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Lab ID	: L1849060-04	**Date Collected**	: 11/30/18 09:45
Client ID	: CB-04	**Date Received**	: 11/30/18
Sample Location	: PORT OF ALBANY	**Date Analyzed**	: 12/04/18 13:51
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 1,9010C/9012B	**Analyst**	: LHK
Lab File ID	: OM_12-4-2018_12-52-41PM	**Instrument ID**	: LACHAT
Sample Amount	: 1.0538g	**%Solids**	: 86
Digestion Method	:	**Date Digested**	: 12/03/18

		mg/kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-12-5	Cyanide, Total	ND	1.1	0.23	U

Form 1
WETCHEM

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Lab ID	: L1849060-05	**Date Collected**	: 11/30/18 10:10
Client ID	: CB-01	**Date Received**	: 11/30/18
Sample Location	: PORT OF ALBANY	**Date Analyzed**	: 12/04/18 13:52
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 1,9010C/9012B	**Analyst**	: LHK
Lab File ID	: OM_12-4-2018_12-52-41PM	**Instrument ID**	: LACHAT
Sample Amount	: 1.0375g	**%Solids**	: 73
Digestion Method	:	**Date Digested**	: 12/03/18

		mg/kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-12-5	Cyanide, Total	0.97	1.3	0.28	J

Form 1
WETCHEM

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Lab ID	: L1849060-06	**Date Collected**	: 11/30/18 12:00
Client ID	: DUP-01	**Date Received**	: 11/30/18
Sample Location	: PORT OF ALBANY	**Date Analyzed**	: 12/04/18 13:53
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 1,9010C/9012B	**Analyst**	: LHK
Lab File ID	: OM_12-4-2018_12-52-41PM	**Instrument ID**	: LACHAT
Sample Amount	: 1.0634g	**%Solids**	: 49
Digestion Method	:	**Date Digested**	: 12/03/18

		mg/kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-12-5	Cyanide, Total	1.2	1.9	0.41	J

Form 1
WETCHEM

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Lab ID	: WG1184981-1	**Date Collected**	: NA
Client ID	: WG1184981-1BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 12/04/18 13:34
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 1,9010C/9012B	**Analyst**	: LHK
Lab File ID	: OM_12-4-2018_12-52-41PM	**Instrument ID**	: LACHAT
Sample Amount	: 1.0831g	**%Solids**	: NA
Digestion Method	:	**Date Digested**	: 12/03/18

		mg/kg			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
57-12-5	Cyanide, Total	ND	0.85	0.18	U

Sample Raw Data

Author: <LKRASIN>

Date : 12/4/2018

Original Run Filename: OM_12-4-2018_09-29-50AM.OMN Created: 12/4/2018 9:29:50 AM
Original Run Author's Signature: [a1wetcheminstrument]
Current Run Filename: OM_12-4-2018_09-29-50AM.OMN Last Modified: 12/4/2018 11:10:06 AM
Current Run Author's Signature: [a1wetcheminstrument]
Description: 10-204-00-1-A

Sample	Rep.	Cup No.	Channel 1 Cyanide (ug CN/ 50 mL)	ADF	MDF	Weight	
25	1	S1	25.00000				
10	1	S2	10.00000				
5	1	S3	5.00000				
2	1	S4	2.00000				
1	1	S5	1.00000				
0.5	1	S6	0.50000				
0.2	1	S7	0.20000				
0	1	S8	0.00000				
CCV	1	S3	4.85931				
Known Conc:			0.10000				
Calibration:			Table/Fig. : 1				
CCB	1	S8	-0.03295				
Known Conc:			0.00000				
ICV 0.1	1	1	0.09075			50.00000 g	91·1
ICB	1	2	-0.00106			50.00000 g	
WG1184530-1; BLANK S	1	3	-0.01286			1.05810 g	
WG1184482-1	1	4	-0.02042			1.05810 g	
WG1184482-2; LCS S	1	5	61.92697			0.21900 g	66·1
WG1184482-3; LCSD S	1	6	58.67757			0.21990 g	62·1
WG1184530-2; LCS S	1	7	61.99061			0.21900 g	66·1
WG1184530-3; LCSD S	1	8	58.66473			0.21990 g	62·1
LCS HI	1	9	8.56523			1.01760 g	87·1
L1848472-02	1	10	0.05146			1.08650 g	
CCV	1	S3	4.79530				
Known Conc:			0.10000				
CCB	1	S8	-0.04013				
Known Conc:			0.00000				
L1848472-03	1	11	-0.00975			1.08750 g	
~~L1848754-02~~	~~1~~	~~12~~	~~0.11629~~			~~1.06250 g~~	
L1848754-04	1	13	0.05552			1.04460 g	
L1848754-06	1	14	-0.03157			1.02160 g	
L1848754-08	1	15	-0.01811			1.04430 g	
L1848975-01	1	16	0.00763			1.00940 g	
WG1184530-4; 8975-1 MS	1	17	8.48114			1.01420 g	86·1
WG1184530-5; 8975-1 MSD	1	18	7.94852			1.09230 g	87·1
L1848975-02	1	19	0.02084			1.08270 g	
L1848975-03	1	20	0.05141			1.06550 g	
CCV	1	S3	4.82845				
Known Conc:			0.10000				
CCB	1	S8	0.01304				
Known Conc:			0.00000				
L1848691-01	1	21	0.05408			1.03530 g	
WG1184482-4; 8691-1 MS	1	22	8.25882			1.03040 g	85·1
WG1184482-5; 8691-1 MSD	1	23	7.96624			1.06470 g	84·1
L1848691-02	1	24	-0.05939			1.05980 g	
L1848691-03	1	25	-0.03750			1.09160 g	
L1848691-04	1	26	0.08216			1.06440 g	
L1848691-05	1	27	-0.13080			1.03840 g	
L1848691-06	1	28	-0.04564			1.07530 g	
L1848691-07	1	29	0.01877			1.05150 g	
L1848691-08	1	30	-0.01767			1.03480 g	
CCV	1	S3	4.85425				
Known Conc:			0.10000				
CCB	1	S8	-0.02781				
Known Conc:			0.00000				
L1848691-09	1	31	-0.11781			1.01710 g	
L1848691-10	1	32	-0.02907			1.00090 g	
WG1184881-1; BLANK S	1	33	-0.03460			1.03300 g	
WG1184879-1	1	34	-0.04522			1.03300 g	

Tray 1 LHK

WG1184879-2; LCS S	1	35	47.62769			0.20920 g
WG1184879-3; LCSD S	1	36	62.80355			0.20580 g
WG1184881-2; LCS S	1	37	47.70514			0.20920 g
WG1184881-3; LCSD S	1	38	62.86619			0.20580 g
LCS HI	1	39	8.65122			1.06080 g
L1849143-01	1	40	-0.13527			1.02940 g
CCV	1	S3	4.84756			
	Known Conc:		0.10000			
CCB	1	S8	-0.02976			
	Known Conc:		0.00000			
~~WG1184879-4; 9143-1 MS~~	~~1~~	~~41~~	~~6.81441~~			~~1.05850 g~~
~~WG1184879-5; 9143-1 MSD~~	~~1~~	~~42~~	~~5.35079~~			~~1.01050 g~~
L1849143-02	1	43	-0.03278			1.02180 g
L1849143-03	1	44	-0.01779			1.09830 g
L1849143-04	1	45	-0.04823			1.09600 g
L1849143-05	1	46	-0.05350			1.02820 g
L1849143-06	1	47	0.01221			1.04330 g
L1849143-07	1	48	-0.10998			1.01820 g
L1849143-08	1	49	-0.11650			1.02120 g
L1849143-09	1	50	-0.03947			1.06040 g
CCV	1	S3	4.85644			
	Known Conc:		0.10000			
CCB	1	S8	-0.01803			
	Known Conc:		0.00000			
L1849143-10	1	51	0.02350			1.01920 g
L1849143-11	1	52	-0.12737			1.06240 g
L1849143-12	1	53	-0.01173			1.05530 g
L1849143-13	1	54	-0.07368			1.06400 g
L1849143-14	1	55	-0.03584			1.01920 g
L1849143-15	1	56	-0.02713			1.05760 g
L1849143-16	1	57	0.01900			1.05600 g
L1849143-17	1	58	-0.02912			1.07750 g
L1849143-18	1	59	-0.02019			1.09020 g
~~L1749143-19~~	1	60	0.01716			1.04180 g
CCV	1	S3	4.84796			
	Known Conc:		0.10000			
CCB	1	S8	-0.03413			
	Known Conc:		0.00000			
L1849143-20	1	61	-0.00047			1.06230 g
WG1184881-4; 9143-20 MS	1	62	8.27003			1.02160 g
WG1184881-5; 9143-20 MSD	1	63	8.85827			1.00480 g
DI CELL 5	1	64	0.00205			50.00000 g
DI CELL 10	1	65	-0.00252			50.00000 g
L1848754-02	1	12	-0.02262			1.06250 g
WG1184879-4; 9143-1 MS	1	41	6.87128			1.05850 g
WG1184879-5; 9143-1 MSD	1	42	5.41686			1.01050 g
CCV	1	S3	4.86050			
	Known Conc:		0.10000			
CCB	1	S8	-0.03722			
	Known Conc:		0.00000			

-1849143-19

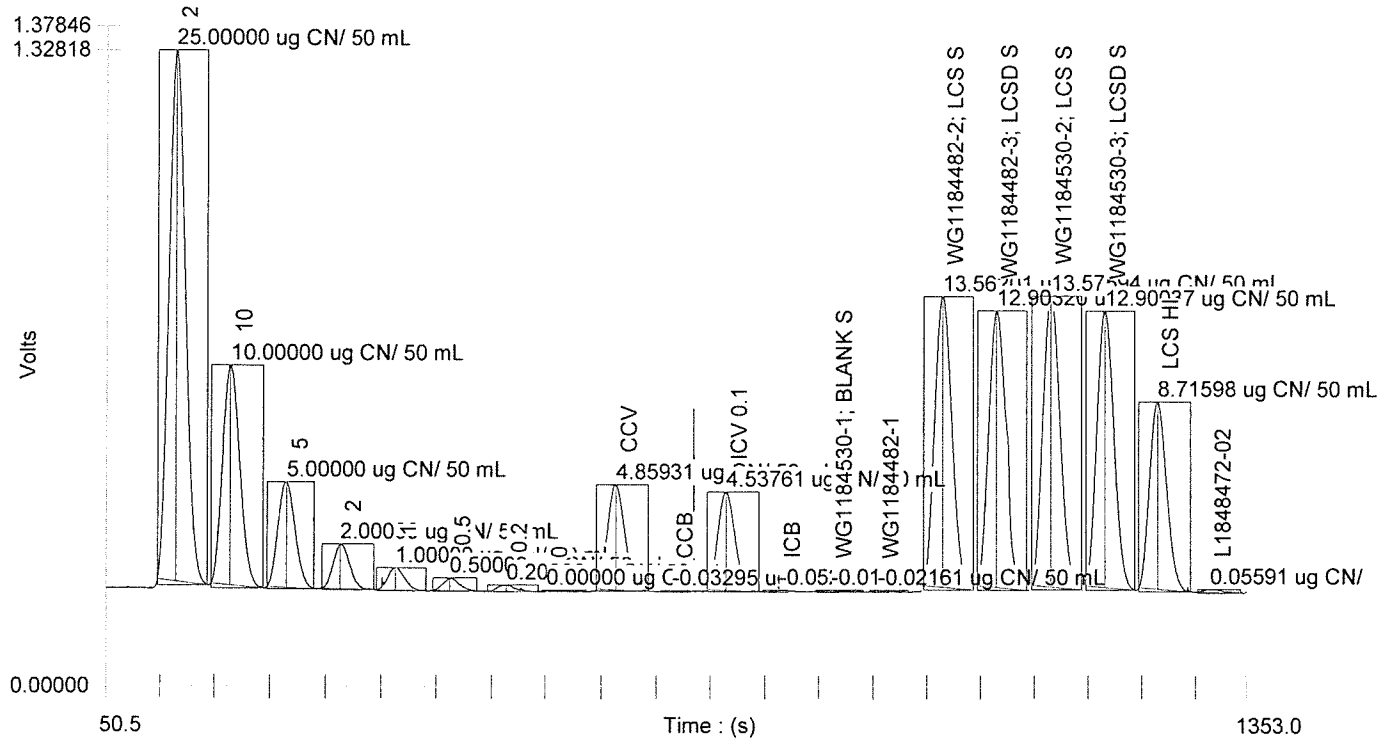
LKK 12/5/18

Tray 1 LKK

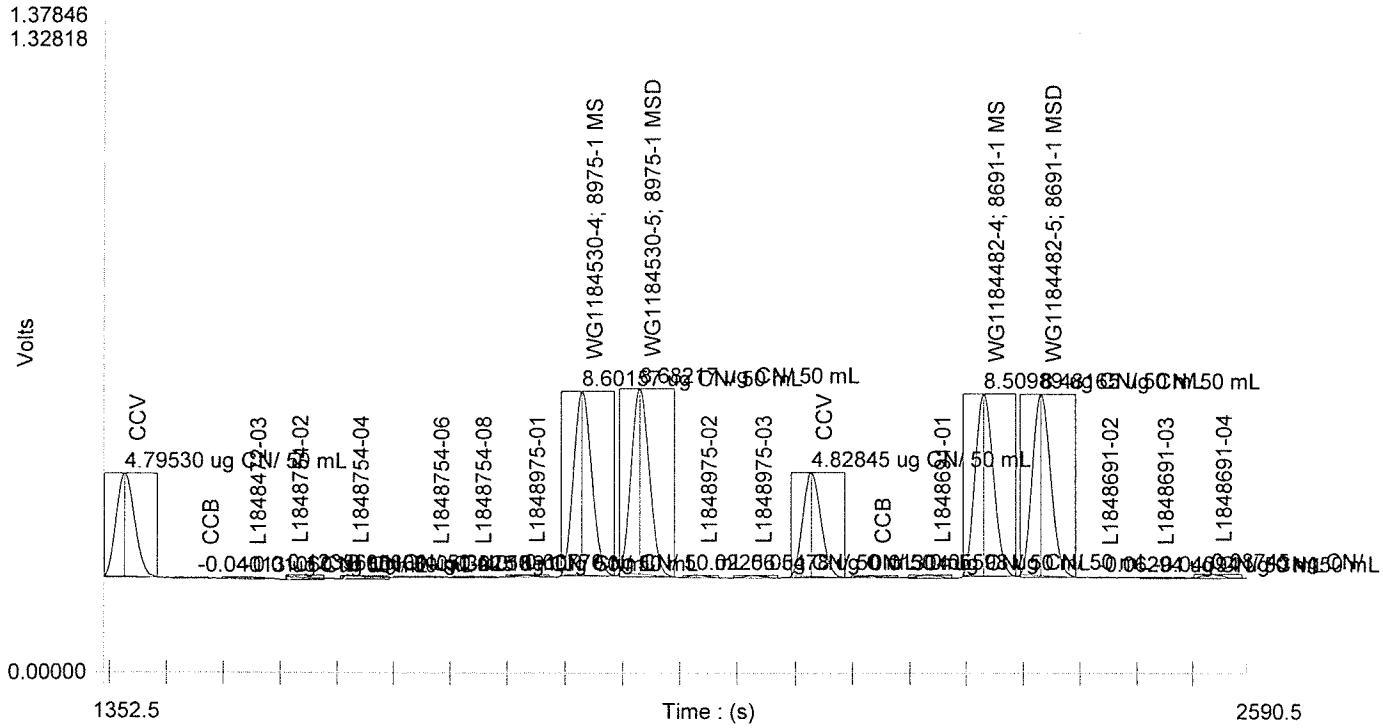
Author: <LKRASIN>

Date : 12/4/2018

Channel 1 (Cyanide) - Set: 1 / 5



Channel 1 (Cyanide) - Set: 2 / 5

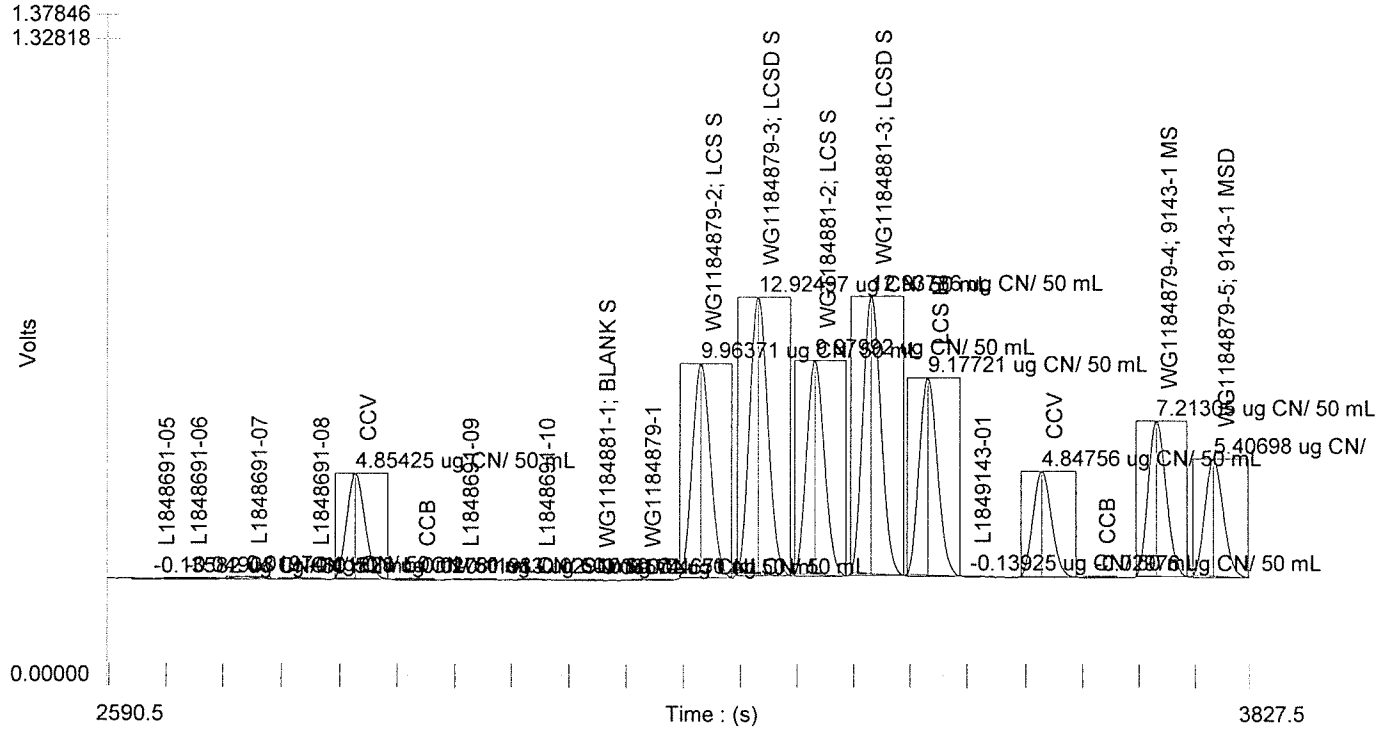


Tray 1 LHK

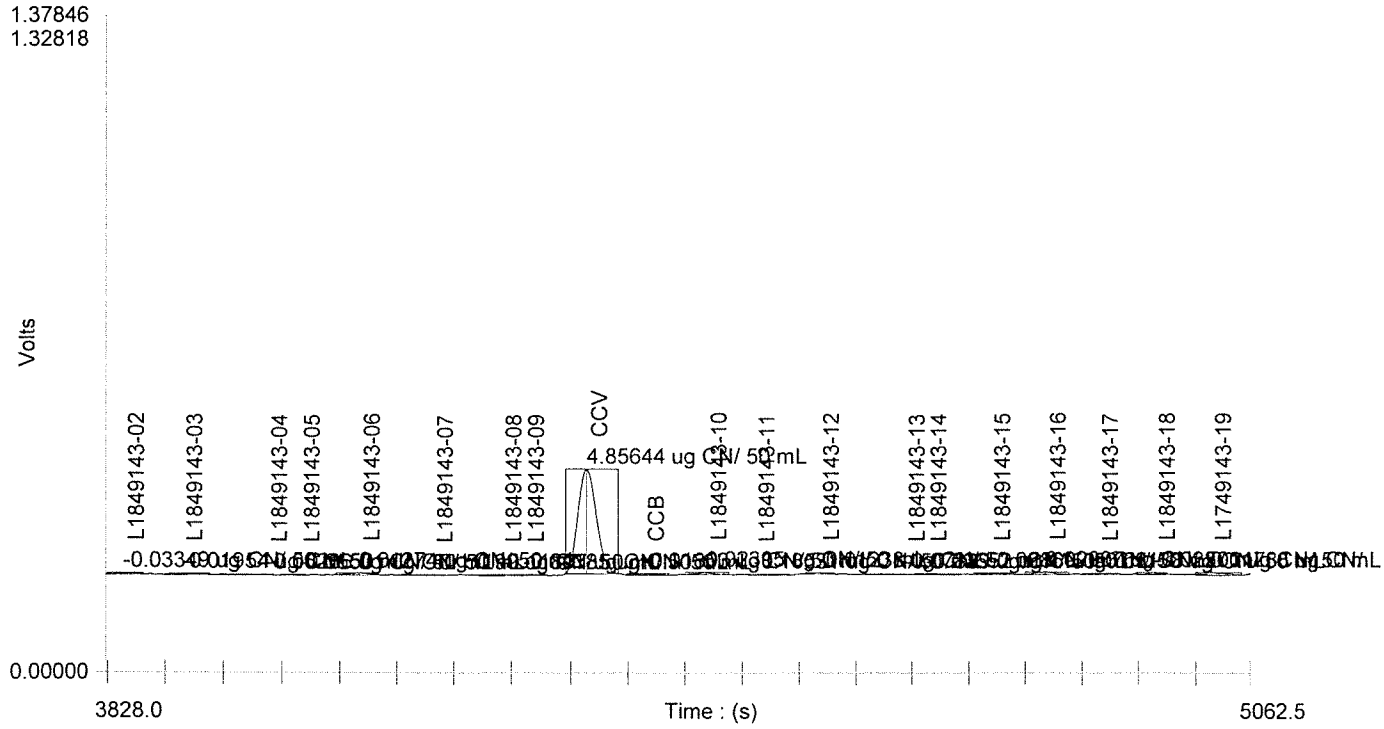
Author: <LKRASIN>

Date : 12/4/2018

Channel 1 (Cyanide) - Set: 3 / 5



Channel 1 (Cyanide) - Set: 4 / 5



Trap1 LUK

Author: <LKRASIN>

Date : 12/4/2018

Channel 1 (Cyanide) - Set: 5 / 5

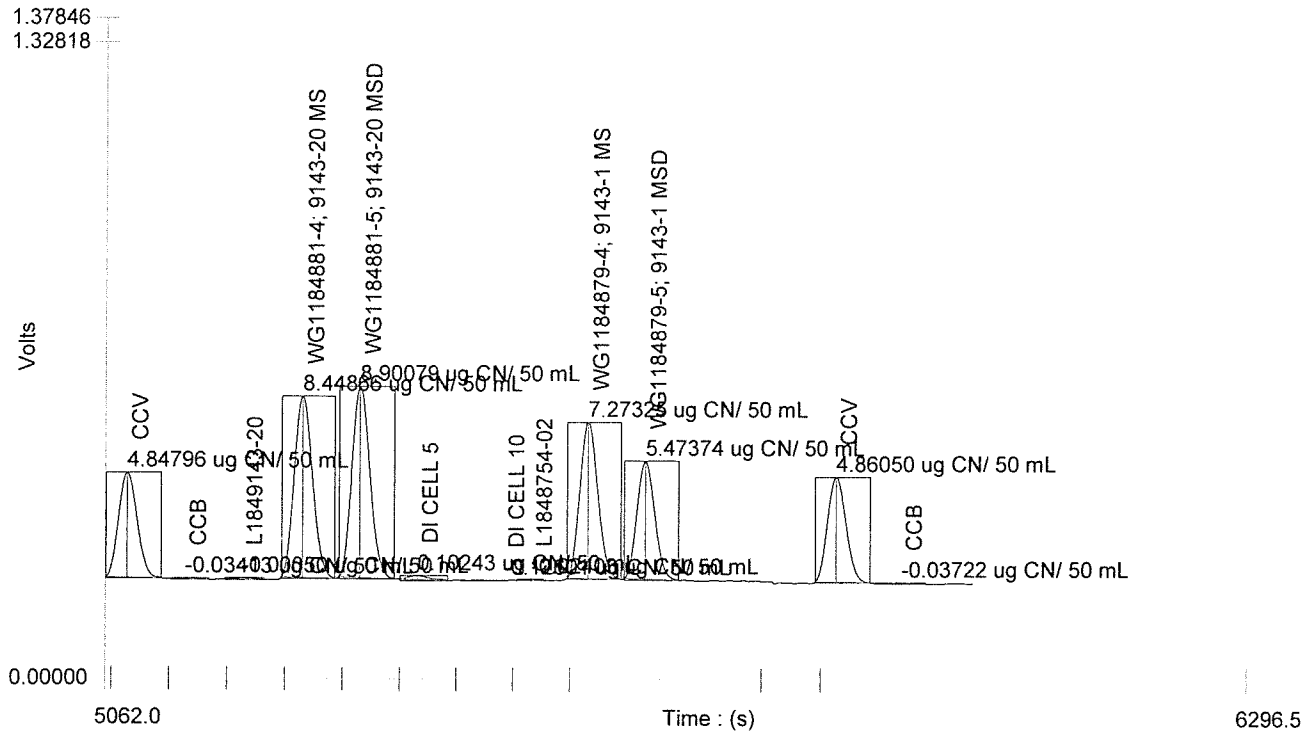
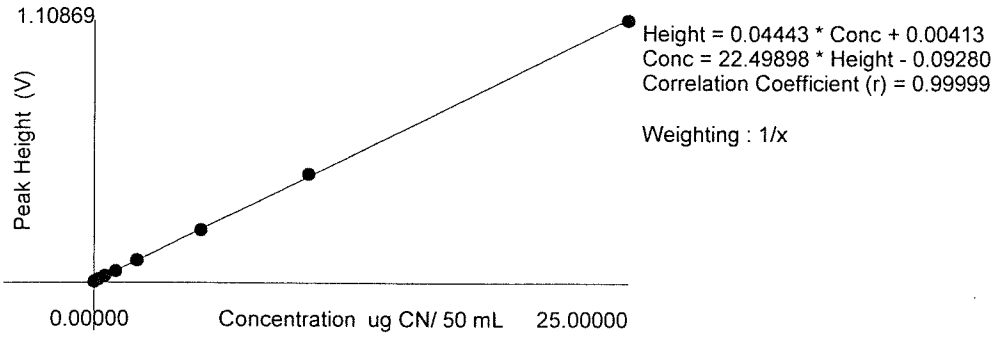


Table : 1 (Cyanide)

	Known Conc. (ug CN/ 50 mL)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (ug CN/ 50 mL)	Detection Date	Detection Time
1	25.00000	1	24.14094	1.10869	0.0	0.6	24.85152	12/4/2018	9:30:44 AM
2	10.00000	1	9.97046	0.45830	0.0	-2.2	10.21845	12/4/2018	9:31:46 AM
3	5.00000	1	4.89384	0.22160	0.0	2.1	4.89292	12/4/2018	9:32:48 AM
4	2.00000	1	2.00754	0.09412	0.0	-1.2	2.02475	12/4/2018	9:33:50 AM
5	1.00000	1	1.06430	0.04736	0.0	2.5	0.97272	12/4/2018	9:34:53 AM
6	0.50000	1	0.56527	0.02711	0.0	-2.9	0.51713	12/4/2018	9:35:56 AM
7	0.20000	1	0.30176	0.01352	0.0	-3.8	0.21129	12/4/2018	9:37:00 AM
8	0.00000	1	0.06241	0.00350			-0.01406	12/4/2018	9:38:03 AM

Figure : 1 (Cyanide)



Tray 1 LHK

Author: <LKRASIN>

Date : 12/4/2018

Original Run Filename: OM_12-4-2018_11-10-31AM.OMN Created: 12/4/2018 11:10:31 AM
Original Run Author's Signature: [a1wetcheminstrument]
Current Run Filename: OM_12-4-2018_11-10-31AM.OMN Last Modified: 12/4/2018 11:54:31 AM
Current Run Author's Signature: [a1wetcheminstrument]
Description: 10-204-00-1-A

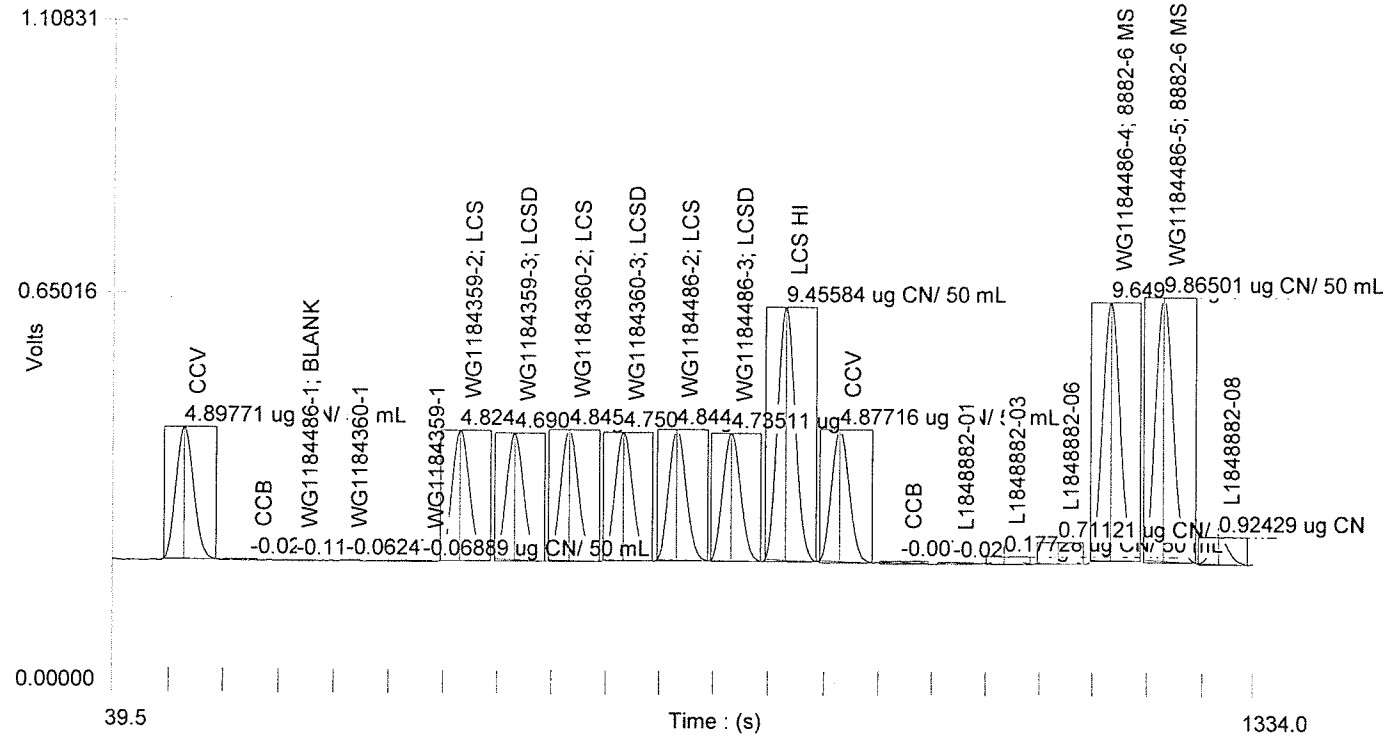
Sample	Rep.	Cup No.	Channel 1 Cyanide (ug CN/ 50 mL)	ADF	MDF	Weight	
CCV	1	S3	4.89771				
	Known Conc:		0.10000				
	Calibration:		Table/Fig. : 1				
CCB	1	S8	-0.02443				
	Known Conc:		0.00000				
WG1184486-1; BLANK	1	1	-0.00234			50.00000 g	
WG1184360-1	1	2	-0.00125			50.00000 g	
WG1184359-1	1	3	-0.00138			50.00000 g	
WG1184359-2; LCS	1	4	0.09649			50.00000 g	96%
WG1184359-3; LCSD	1	5	0.09381			50.00000 g	94%
WG1184360-2; LCS	1	6	0.09690			50.00000 g	97%
WG1184360-3; LCSD	1	7	0.09500			50.00000 g	95%
WG1184486-2; LCS	1	8	0.09688			50.00000 g	97%
WG1184486-3; LCSD	1	9	0.09470			50.00000 g	95%
LCS HI	1	10	0.18912			50.00000 g	95%
CCV	1	S3	4.87716				
	Known Conc:		0.10000				
CCB	1	S8	-0.00794				
	Known Conc:		0.00000				
L1848882-01	1	11	-0.00053			50.00000 g	
L1848882-03	1	12	0.00355			50.00000 g	
L1848882-06	1	13	0.01422			50.00000 g	
WG1184486-4; 8882-6 MS	1	14	0.19299			50.00000 g	89%
WG1184486-5; 8882-6 MSD	1	15	0.19730			50.00000 g	92%
L1848882-08	1	16	0.01849			50.00000 g	
L1848882-10	1	17	0.00064			50.00000 g	
L1848882-12	1	18	0.00057			50.00000 g	
L1848882-14	1	19	0.00778			50.00000 g	
L1848975-04	1	20	-0.00244			50.00000 g	
CCV	1	S3	4.85620				
	Known Conc:		0.10000				
CCB	1	S8	-0.02834				
	Known Conc:		0.00000				
L1848787-01	1	21	-0.00121			50.00000 g	
WG1184360-4; 8787-1 MS	1	22	0.18072			50.00000 g	90%
WG1184360-5; 8787-1 MSD	1	23	0.17590			50.00000 g	88%
L1848787-02	1	24	0.00229			50.00000 g	
L1848787-03	1	25	-0.00041			50.00000 g	
L1848787-04	1	26	-0.00068			50.00000 g	
L1848265-09	1	27	0.00094			50.00000 g	
L1848265-10	1	28	0.00077			50.00000 g	
L1848265-11	1	29	0.00212			50.00000 g	
L1848265-12	1	30	-0.00086			50.00000 g	
CCV	1	S3	4.87759				
	Known Conc:		0.10000				
CCB	1	S8	-0.18273				
	Known Conc:		0.00000				
~~L1848265-13~~	~~1~~	~~31~~	~~-0.00460~~			~~50.00000 g~~	
~~L1848265-14~~	~~1~~	~~32~~	~~-0.00090~~			~~50.00000 g~~	Tray stopped -LMK

Tray 2 LMK

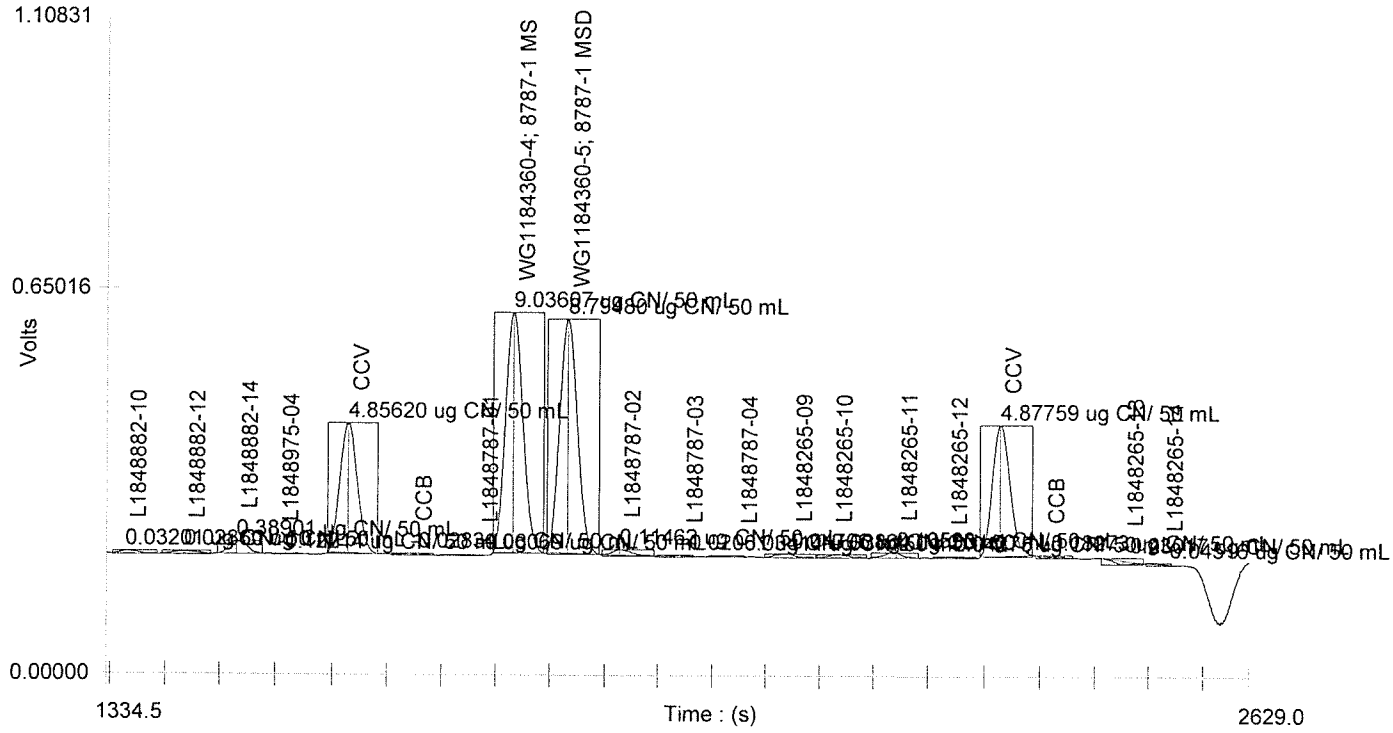
Author: <LKRASIN>

Date : 12/4/2018

Channel 1 (Cyanide) - Set: 1 / 2



Channel 1 (Cyanide) - Set: 2 / 2



Tray 2 LMK

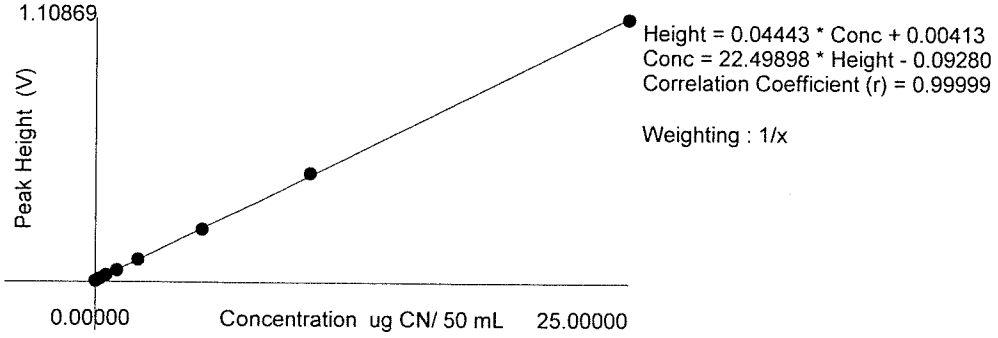
Author: <LKRASIN>

Date : 12/4/2018

Table : 1 (Cyanide)

	Known Conc. (ug CN/ 50 mL)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (ug CN/ 50 mL)	Detection Date	Detection Time
1	25.00000	1	24.14094	1.10869	0.0	0.6	24.85152	12/4/2018	9:30:44 AM
2	10.00000	1	9.97046	0.45830	0.0	-2.2	10.21845	12/4/2018	9:31:46 AM
3	5.00000	1	4.89384	0.22160	0.0	2.1	4.89292	12/4/2018	9:32:48 AM
4	2.00000	1	2.00754	0.09412	0.0	-1.2	2.02475	12/4/2018	9:33:50 AM
5	1.00000	1	1.06430	0.04736	0.0	2.5	0.97272	12/4/2018	9:34:53 AM
6	0.50000	1	0.56527	0.02711	0.0	-2.9	0.51713	12/4/2018	9:35:56 AM
7	0.20000	1	0.30176	0.01352	0.0	-3.8	0.21129	12/4/2018	9:37:00 AM
8	0.00000	1	0.06241	0.00350			-0.01406	12/4/2018	9:38:03 AM

Figure : 1 (Cyanide)



Tray 2 LMK

Author: <LKRASIN>

Date : 12/4/2018

Original Run Filename: OM_12-4-2018_11-57-10AM.OMN Created: 12/4/2018 11:57:10 AM
Original Run Author's Signature: [a1wetcheminstrument]
Current Run Filename: OM_12-4-2018_11-57-10AM.OMN Last Modified: 12/4/2018 12:51:43 PM
Current Run Author's Signature: [a1wetcheminstrument]
Description: 10-204-00-1-A

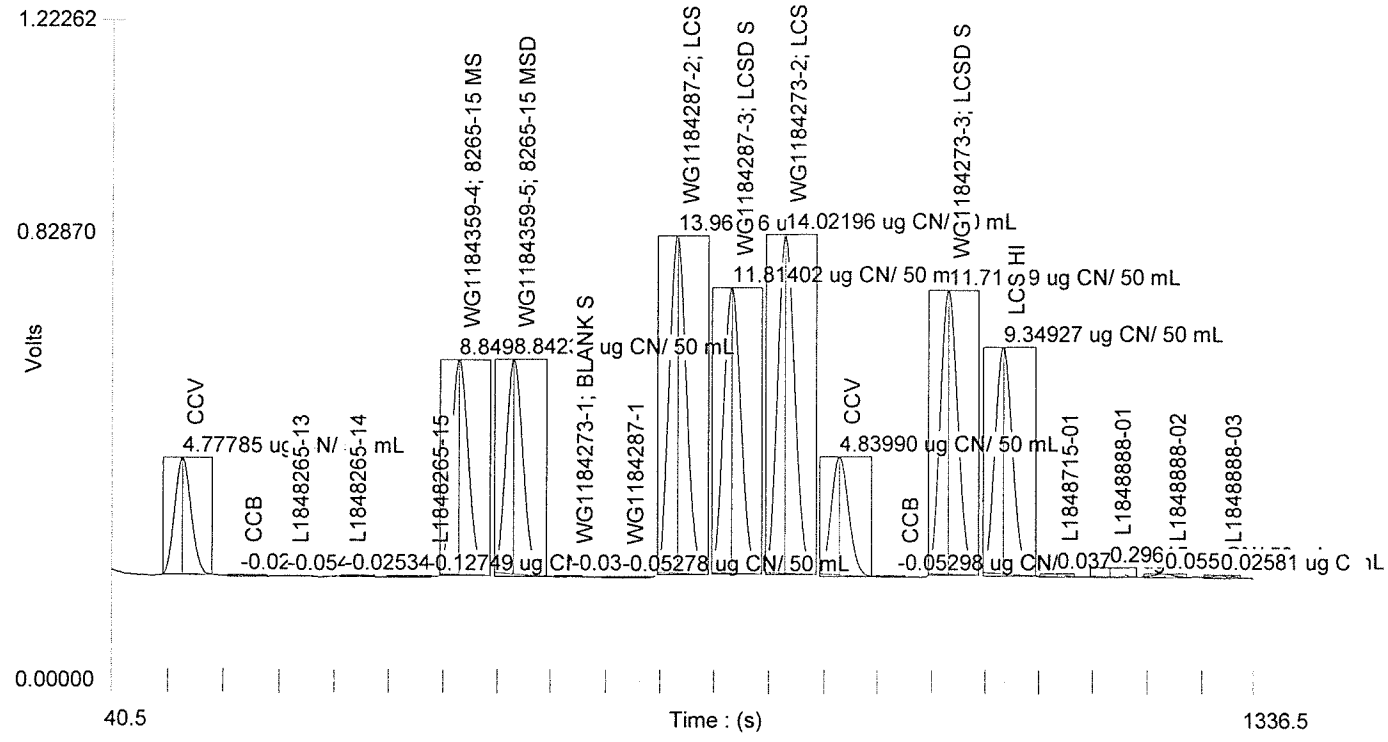
Sample	Rep.	Cup No.	Channel 1 Cyanide (ug CN/ 50 mL)	ADF	MDF	Weight	
CCV	1	S3	4.77785				
Known Conc:			0.10000				
Calibration:			Table/Fig. : 1				
CCB	1	S8	-0.02862				
Known Conc:			0.00000				
L1848265-13	1	31	-0.00109			50.00000 g	
L1848265-14	1	32	-0.00051			50.00000 g	
L1848265-15	1	33	-0.00255			50.00000 g	
WG1184359-4; 8265-15 MS	1	34	0.17700			50.00000 g	88 L
WG1184359-5; 8265-15 MSD	1	35	0.17685			50.00000 g	88 L
WG1184273-1; BLANK S	1	36	-0.02867			1.06630 g	
WG1184287-1	1	37	-0.04949			1.06630 g	
WG1184287-2; LCS S	1	38	62.52044			0.22340 g	66 L
WG1184287-3; LCSD S	1	39	52.25129			0.22610 g	55 L
WG1184273-2; LCS S	1	40	62.76617			0.22340 g	67 L
CCV	1	S3	4.83990				
Known Conc:			0.10000				
CCB	1	S8	-0.05298				
Known Conc:			0.00000				
WG1184273-3; LCSD S	1	41	51.82656			0.22610 g	55 L
LCS HI	1	42	9.03486			1.03480 g	93 L
L1848715-01	1	43	0.03772			1.00640 g	
L1848888-01	1	44	0.29015			1.02070 g	
L1848888-02	1	45	0.05098			1.08150 g	
L1848888-03	1	46	0.02392			1.07880 g	
L1848888-04	1	47	0.01535			1.03650 g	
WG1184273-4; 8888-4 MS	1	48	9.06244			1.03630 g	94 L
WG1184273-5; 8888-4 MSD	1	49	8.85104			1.04110 g	92 L
L1848888-05	1	50	-0.02472			1.03640 g	
CCV	1	S3	4.96433				
Known Conc:			0.10000				
CCB	1	S8	-0.07039				
Known Conc:			0.00000				
L1848888-06	1	51	-0.01007			1.06750 g	
L1848888-07	1	52	0.00605			1.02490 g	
L1848888-08	1	53	0.02609			1.09290 g	
L1848888-09	1	54	-0.03356			1.06760 g	
L1848888-10	1	55	0.02924			1.02930 g	
L1848888-11	1	56	0.10566			1.08240 g	
L1848888-12	1	57	0.09267			1.06440 g	
L1848888-13	1	58	-0.03349			1.06210 g	
L1848888-14	1	59	-0.03461			1.08410 g	
L1848888-15	1	60	0.00144			1.05440 g	
CCV	1	S3	4.97239				
Known Conc:			0.10000				
CCB	1	S8	-0.13334				
Known Conc:			0.00000				
L1848888-16	1	61	0.03036			1.01230 g	
L1848888-17	1	62	0.01573			1.01690 g	
L1848888-18	1	63	-0.01177			1.06940 g	
L1848888-19	1	64	-0.00327			1.02850 g	
WG1184287-4; 8888-19 MS	1	65	9.13547			1.01830 g	93 L
WG1184287-5; 8888-19 MSD	1	66	8.50571			1.06520 g	91 L
DI CELL 5	1	67	0.01138			50.00000 g	
DI CELL 10	1	68	0.00017			50.00000 g	
CCV	1	S3	5.01596				
Known Conc:			0.10000				
CCB	1	S8	-0.16109				
Known Conc:			0.00000				

Tray 2A LMK

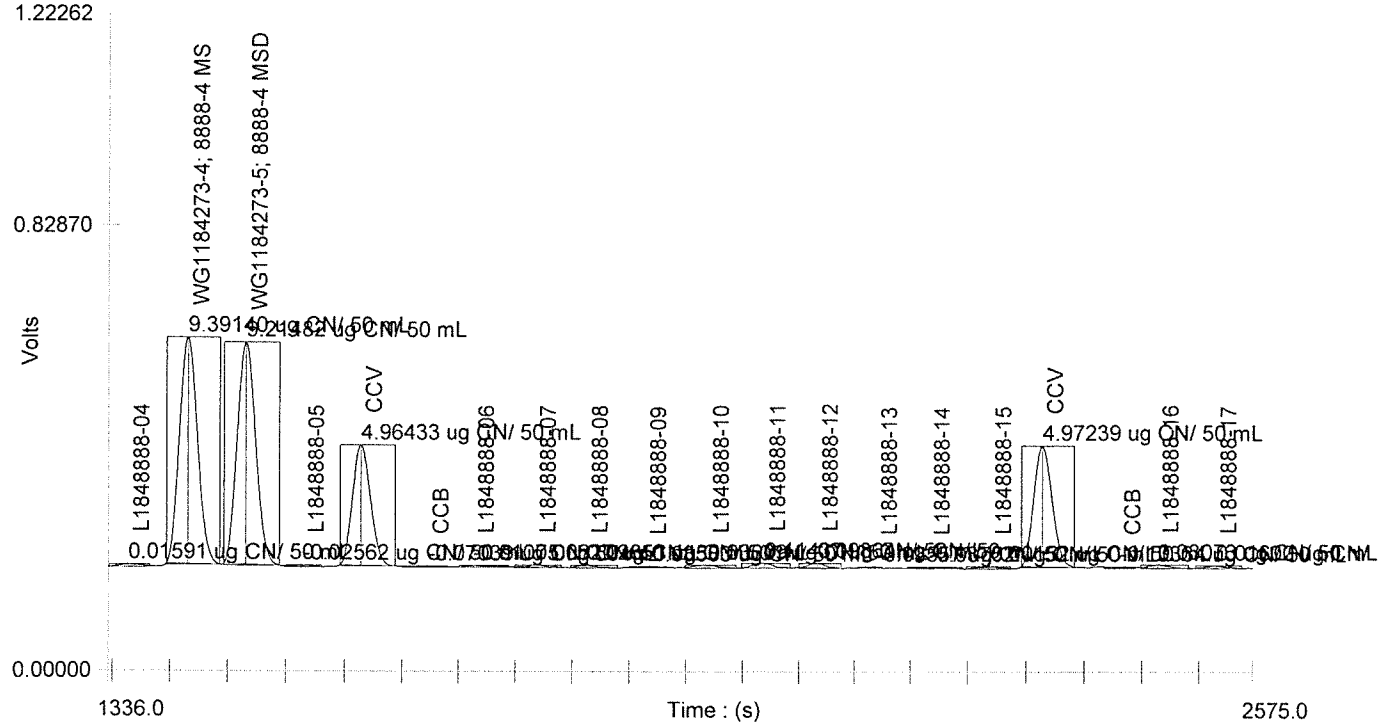
Author: <LKRASIN>

Date : 12/4/2018

Channel 1 (Cyanide) - Set: 1 / 3



Channel 1 (Cyanide) - Set: 2 / 3



Tray2A LNK

Author: <LKRASIN>

Date : 12/4/2018

Channel 1 (Cyanide) - Set: 3 / 3

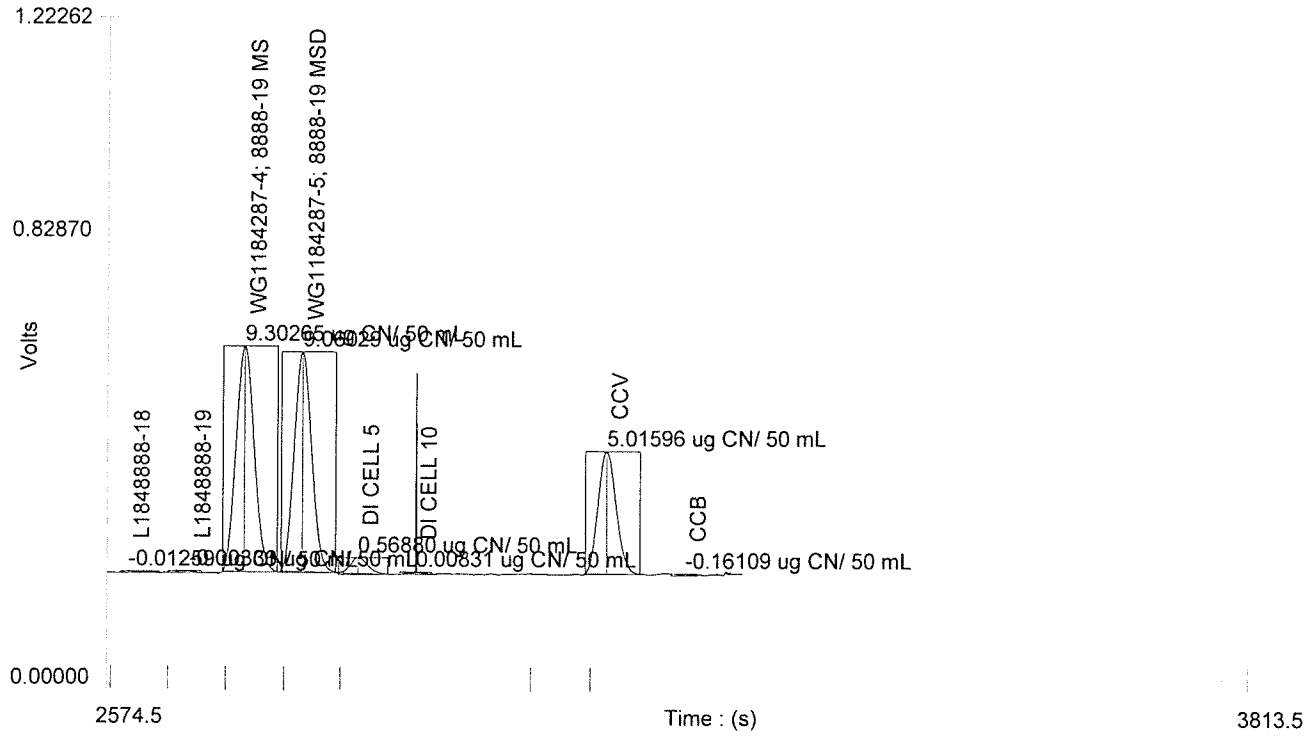
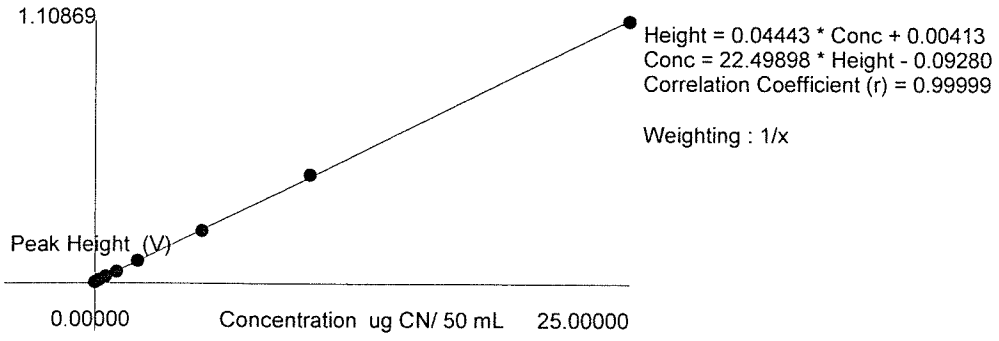


Table : 1 (Cyanide)

	Known Conc. (ug CN/ 50 mL)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (ug CN/ 50 mL)	Detection Date	Detection Time
1	25.00000	1	24.14094	1.10869	0.0	0.6	24.85152	12/4/2018	9:30:44 AM
2	10.00000	1	9.97046	0.45830	0.0	-2.2	10.21845	12/4/2018	9:31:46 AM
3	5.00000	1	4.89384	0.22160	0.0	2.1	4.89292	12/4/2018	9:32:48 AM
4	2.00000	1	2.00754	0.09412	0.0	-1.2	2.02475	12/4/2018	9:33:50 AM
5	1.00000	1	1.06430	0.04736	0.0	2.5	0.97272	12/4/2018	9:34:53 AM
6	0.50000	1	0.56527	0.02711	0.0	-2.9	0.51713	12/4/2018	9:35:56 AM
7	0.20000	1	0.30176	0.01352	0.0	-3.8	0.21129	12/4/2018	9:37:00 AM
8	0.00000	1	0.06241	0.00350			-0.01406	12/4/2018	9:38:03 AM

Figure : 1 (Cyanide)



Tray 2A LMK

Author: <LKRASIN> Date : 12/4/2018

Original Run Filename: OM_12-4-2018_12-52-40PM.OMN Created: 12/4/2018 12:52:40 PM
Original Run Author's Signature: [a1wetcheminstrument]
Current Run Filename: OM_12-4-2018_12-52-40PM.OMN Last Modified: 12/4/2018 2:09:22 PM
Current Run Author's Signature: [a1wetcheminstrument]
Description: 10-204-00-1-A

Sample	Rep.	Cup No.	Channel 1 Cyanide (ug CN/ 50 mL)	ADF	MDF	Weight	
CCV	1	S3	4.95419				
	Known Conc:		0.10000				
CCB	1	S8	-0.00522				
	Known Conc:		0.00000				
WG1184392-1; BLANK	1	1	-0.00069			50.00000 g	
WG1184396-1	1	2	-0.00295			50.00000 g	
WG1184396-2; LCS	1	3	0.10298			50.00000 g	103 %
LCSD	1	4	0.09410			50.00000 g	94 %
WG1184392-2; LCS	1	5	0.10306			50.00000 g	103 %
	Calibration:		Table/Fig. : 1				
WG1184392-3; LCSD	1	6	0.09410			50.00000 g	94 %
LCS HI	1	7	0.18465			50.00000 g	97 %
L1848901-01	1	8	-0.00261			50.00000 g	
L1848901-02	1	9	-0.00144			50.00000 g	
L1848901-03	1	10	-0.00240			50.00000 g	
CCV	1	S3	5.00228				
	Known Conc:		0.10000				
CCB	1	S8	-0.03520				
	Known Conc:		0.00000				
L1848903-01	1	11	-0.00087			50.00000 g	
L1848903-02	1	12	-0.00074			50.00000 g	
L1848903-03	1	13	-0.00275			50.00000 g	
L1848903-04	1	14	-0.00025			50.00000 g	
L1848903-05	1	15	0.00097			50.00000 g	
L1848903-06	1	16	-0.00123			50.00000 g	
WG1184396-3; 8903-6 DUP	1	17	-0.00074			50.00000 g	RPD=NC
WG1184396-4; 8903-6 MS	1	18	0.18420			50.00000 g	92 %
WG1184396-5; 8903-6 MSD	1	19	0.17818			50.00000 g	89 %
L1848903-07	1	20	-0.00082			50.00000 g	
CCV	1	S3	4.94361				
	Known Conc:		0.10000				
CCB	1	S8	-0.03313				
	Known Conc:		0.00000				
L1848720-01	1	21	0.00083			50.00000 g	
WG1184392-4; 8720-1 MS	1	22	0.21180			50.00000 g	106 %
WG1184392-5; 8720-1 MSD	1	23	0.18980			50.00000 g	94 %
L1848720-02	1	24	0.00148			50.00000 g	
L1848720-03	1	25	-0.00249			50.00000 g	
L1848720-04	1	26	-0.00117			50.00000 g	
L1848720-05	1	27	0.00106			50.00000 g	
L1848720-06	1	28	0.00021			50.00000 g	
L1848720-07	1	29	6.90074e-5			50.00000 g	
L1848771-01	1	30	-0.00261			50.00000 g	
CCV	1	S3	4.94437				
	Known Conc:		0.10000				
CCB	1	S8	-0.02298				
	Known Conc:		0.00000				
L1848771-02	1	31	-4.03484e-5			50.00000 g	
L1848771-03	1	32	-0.00281			50.00000 g	
WG1184981-1; BLANK S	1	33	-0.13155			1.08310 g	
WG1184984-1	1	34	-0.02492			1.08310 g	
WG1184984-2; LCS S	1	35	49.46434			0.20730 g	52 %
WG1184984-3; LCSD S	1	36	81.21066			0.20930 g	86 %
WG1184981-2; LCS S	1	37	49.72017			0.20730 g	53 %
WG1184981-3; LCSD S	1	38	81.55392			0.20930 g	86 %
LCS HI	1	39	8.74627			1.07500 g	94 %
L1848907-01	1	40	0.05159			1.04980 g	
CCV	1	S3	5.05356				
	Known Conc:		0.10000				

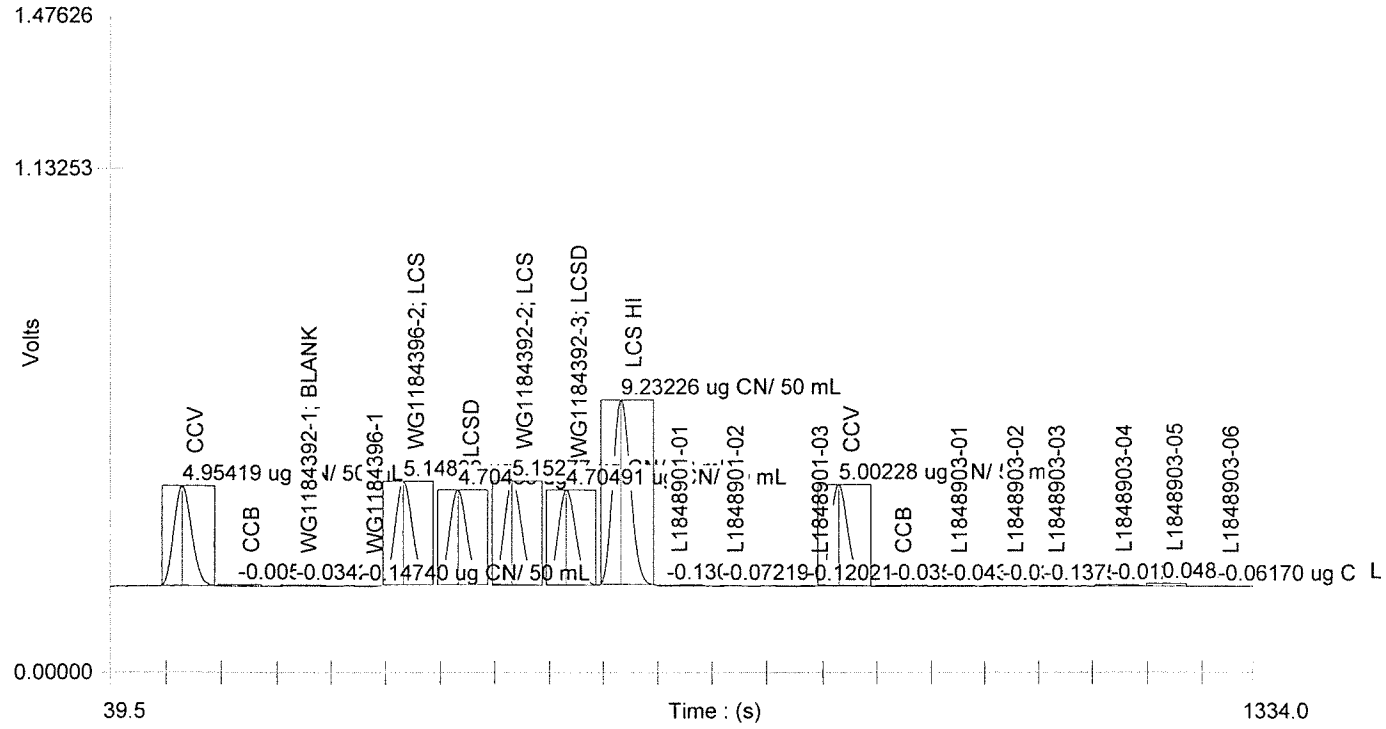
Tray 3 LHK

CCB	1	S8	-0.02693			
	Known Conc:		0.00000			
L1848907-02	1	41	0.34176			1.09700 g
L1848969-01	1	42	0.08470			1.01560 g
L1849060-02	1	43	0.56826			1.09150 g
L1849060-03	1	44	0.33417			1.00000 g
WG1184981-4; 9060-3 MS	1	45	9.02184			1.03890 g
WG1184981-5; 9060-3 MSD	1	46	10.09927			1.00100 g
L1849060-04	1	47	0.01883			1.05380 g
L1849060-05	1	48	0.70766			1.03750 g
L1849060-06	1	49	0.59978			1.06340 g
L1849008-01	1	50	-0.00505			1.03450 g
CCV	1	S3	5.02188			
	Known Conc:		0.10000			
CCB	1	S8	-0.15536			
	Known Conc:		0.00000			
WG1184984-4; 9008-1 MS	1	51	9.24602			1.03630 g
WG1184984-5; 9008-1 MSD	1	52	9.20521			1.02260 g
L1849008-02	1	53	0.36283			1.00320 g
L1849008-03	1	54	0.08453			1.01730 g
L1849008-04	1	55	0.06101			1.06110 g
L1849008-05	1	56	-0.53306			1.01280 g
L1849008-06	1	57	-0.02232			1.00060 g
L1849008-07	1	58	-0.02623			1.09180 g
L1849008-08	1	59	-0.04643			1.03060 g

94.1
101.2 1.0001g LMK 12/5/18

Tray stopped -LMK

Channel 1 (Cyanide) - Set: 1 / 4

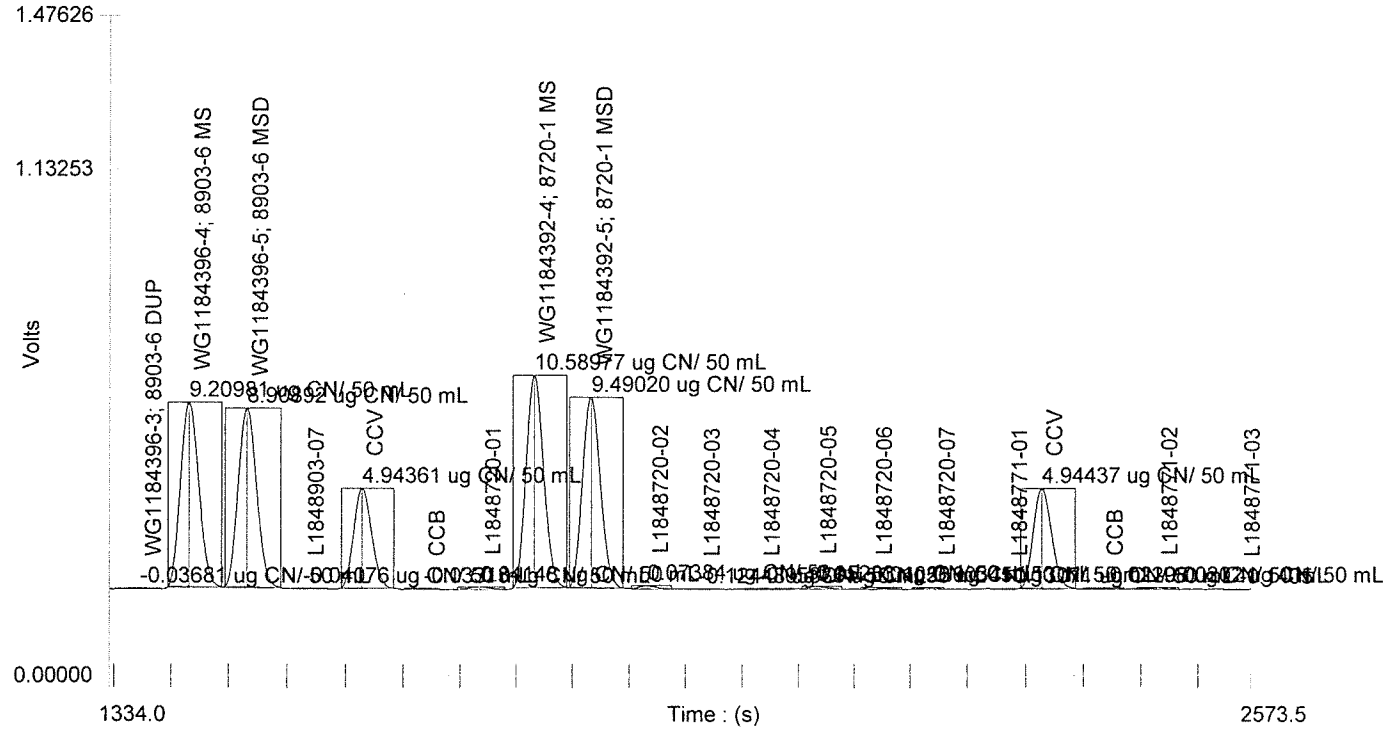


Tray 3 LMK

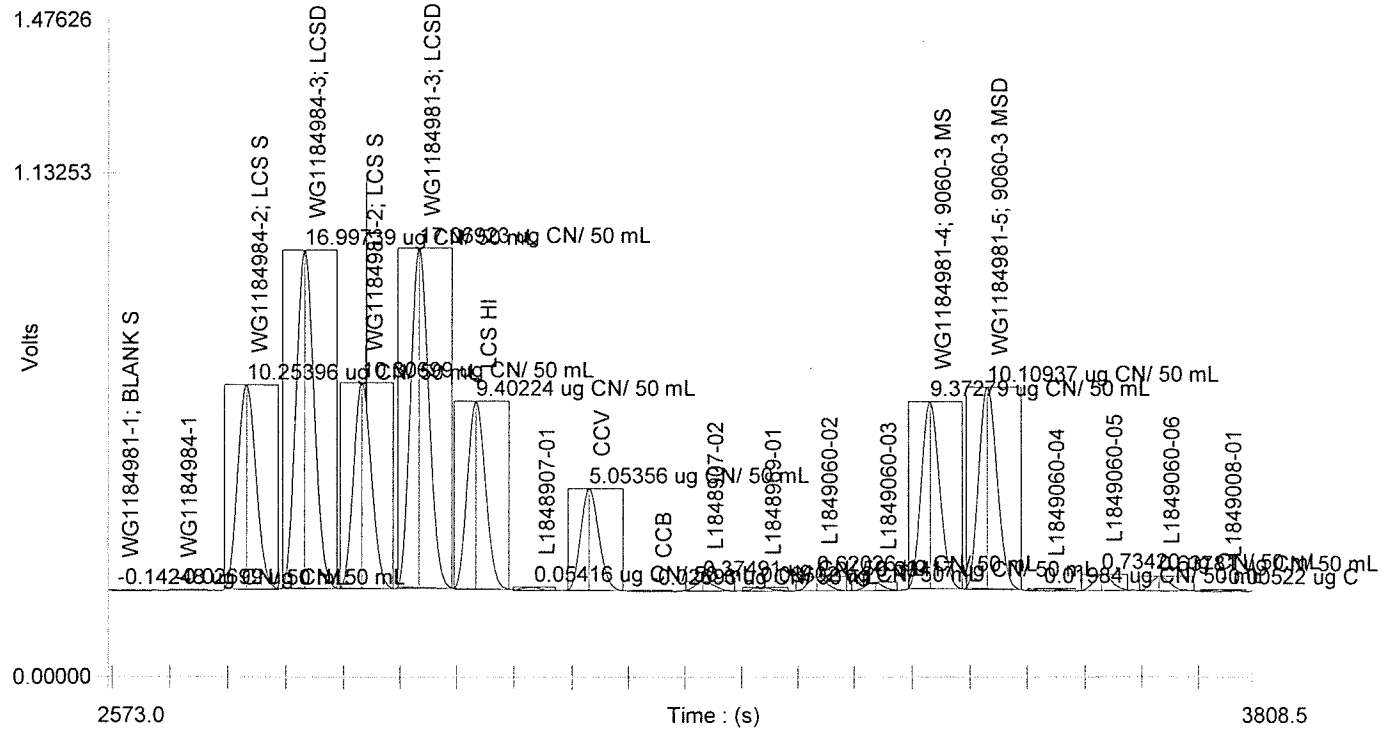
Author: <LKRASIN>

Date : 12/4/2018

Channel 1 (Cyanide) - Set: 2 / 4



Channel 1 (Cyanide) - Set: 3 / 4



Tray 3 LHK

Author: <LKRASIN>

Date : 12/4/2018

Channel 1 (Cyanide) - Set: 4 / 4

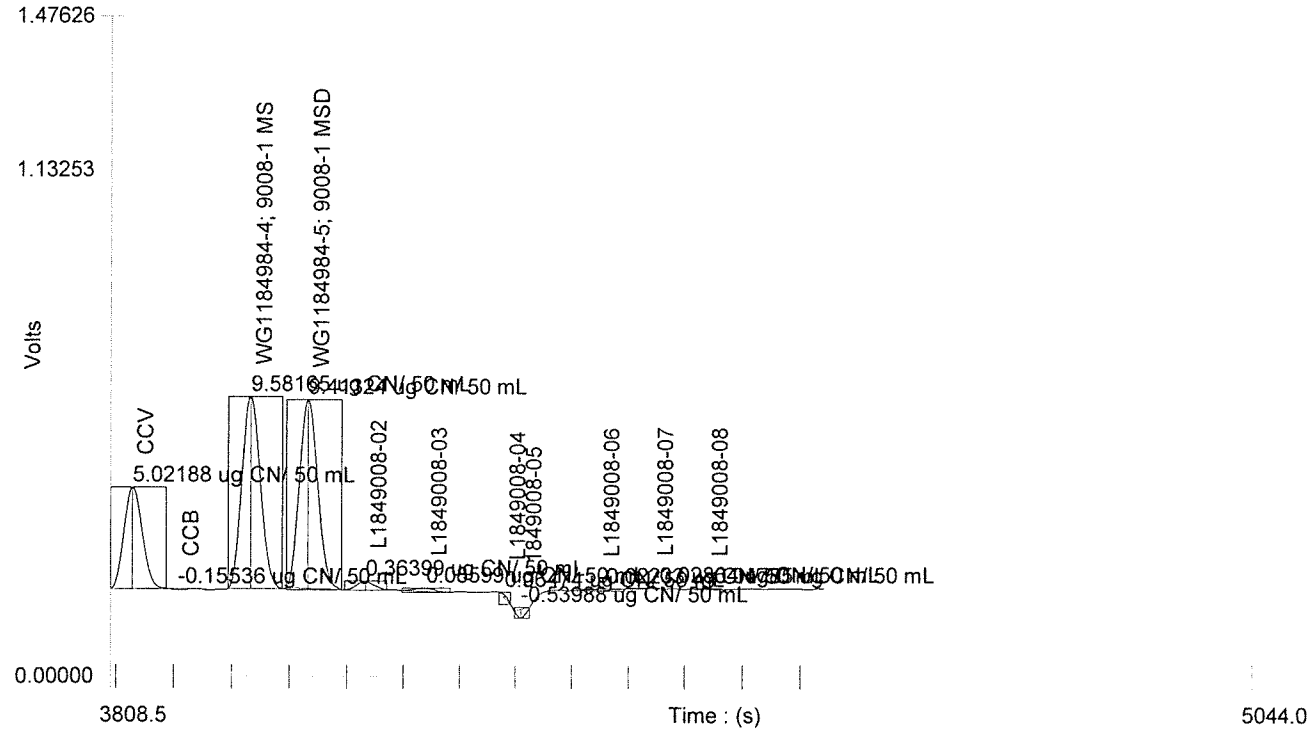
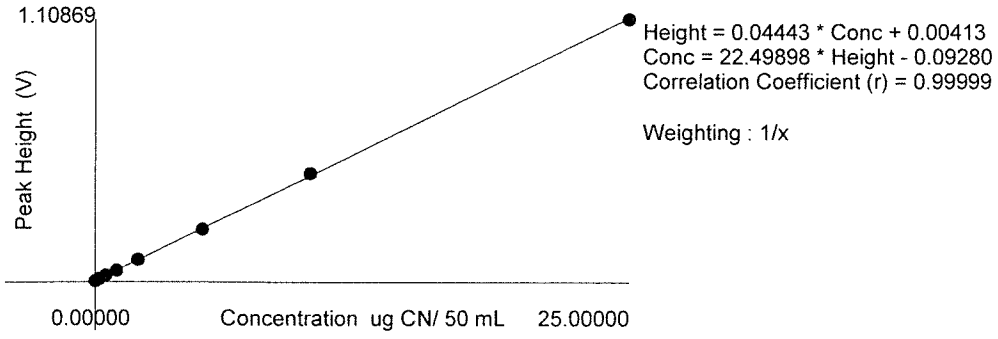


Table : 1 (Cyanide)

	Known Conc. (ug CN/ 50 mL)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (ug CN/ 50 mL)	Detection Date	Detection Time
1	25.00000	1	24.14094	1.10869	0.0	0.6	24.85152	12/4/2018	9:30:44 AM
2	10.00000	1	9.97046	0.45830	0.0	-2.2	10.21845	12/4/2018	9:31:46 AM
3	5.00000	1	4.89384	0.22160	0.0	2.1	4.89292	12/4/2018	9:32:48 AM
4	2.00000	1	2.00754	0.09412	0.0	-1.2	2.02475	12/4/2018	9:33:50 AM
5	1.00000	1	1.06430	0.04736	0.0	2.5	0.97272	12/4/2018	9:34:53 AM
6	0.50000	1	0.56527	0.02711	0.0	-2.9	0.51713	12/4/2018	9:35:56 AM
7	0.20000	1	0.30176	0.01352	0.0	-3.8	0.21129	12/4/2018	9:37:00 AM
8	0.00000	1	0.06241	0.00350			-0.01406	12/4/2018	9:38:03 AM

Figure : 1 (Cyanide)



Tray 3 LHK

Author: <LKRASIN> Date : 12/4/2018

Original Run Filename: OM_12-4-2018_02-12-10PM.OMN Created: 12/4/2018 2:12:10 PM
Original Run Author's Signature: [a1wetcheminstrument]
Current Run Filename: OM_12-4-2018_02-12-10PM.OMN Last Modified: 12/4/2018 2:44:35 PM
Current Run Author's Signature: [a1wetcheminstrument]
Description: 10-204-00-1-A

Sample	Rep.	Cup No.	Channel 1 Cyanide (ug CN/ 50 mL)	ADF	MDF	Weight
CCV	1	S3	4.90069			
	Known Conc:		0.10000			
	Calibration:		Table/Fig. : 1			
CCB	1	S8	-0.01724			
	Known Conc:		0.00000			
WG1184984-4; 9008-1 MS	1	51	9.10090			1.03630 g
WG1184984-5; 9008-1 MSD	1	52	9.09892			1.02260 g
L1849008-02	1	53	0.33899			1.00320 g
L1849008-03	1	54	0.07158			1.01730 g
L1849008-04	1	55	-0.03416			1.06110 g
L1849008-05	1	56	-0.11243			1.01280 g
L1849008-06	1	57	0.00537			1.00060 g
L1849008-07	1	58	-0.05480			1.09180 g
L1849008-08	1	59	0.07669			1.03060 g
L1849008-09	1	60	-0.01180			1.08620 g
CCV	1	S3	4.97503			
	Known Conc:		0.10000			
CCB	1	S8	-0.03036			
	Known Conc:		0.00000			
ACN BLANK S	1	61	0.13480			1.06530 g
ACN LCS S	1	62	0.05471			1.02840 g
49060-02 A	1	63	1.75753			1.01570 g
49060-03 A	1	64	1.76861			1.04610 g
49060-03 A DUP	1	65	2.27229			1.09770 g
49060-04 A	1	66	0.37046			1.02120 g
49060-05 A	1	67	2.32373			1.02670 g
49060 06 A	1	68	1.55156			1.08990 g
DI CELL 5	1	69	0.00288			50.00000 g
DI CELL 10	1	70	-0.00036			50.00000 g
CCV	1	S3	5.01046			
	Known Conc:		0.10000			
CCB	1	S8	-0.01010			
	Known Conc:		0.00000			

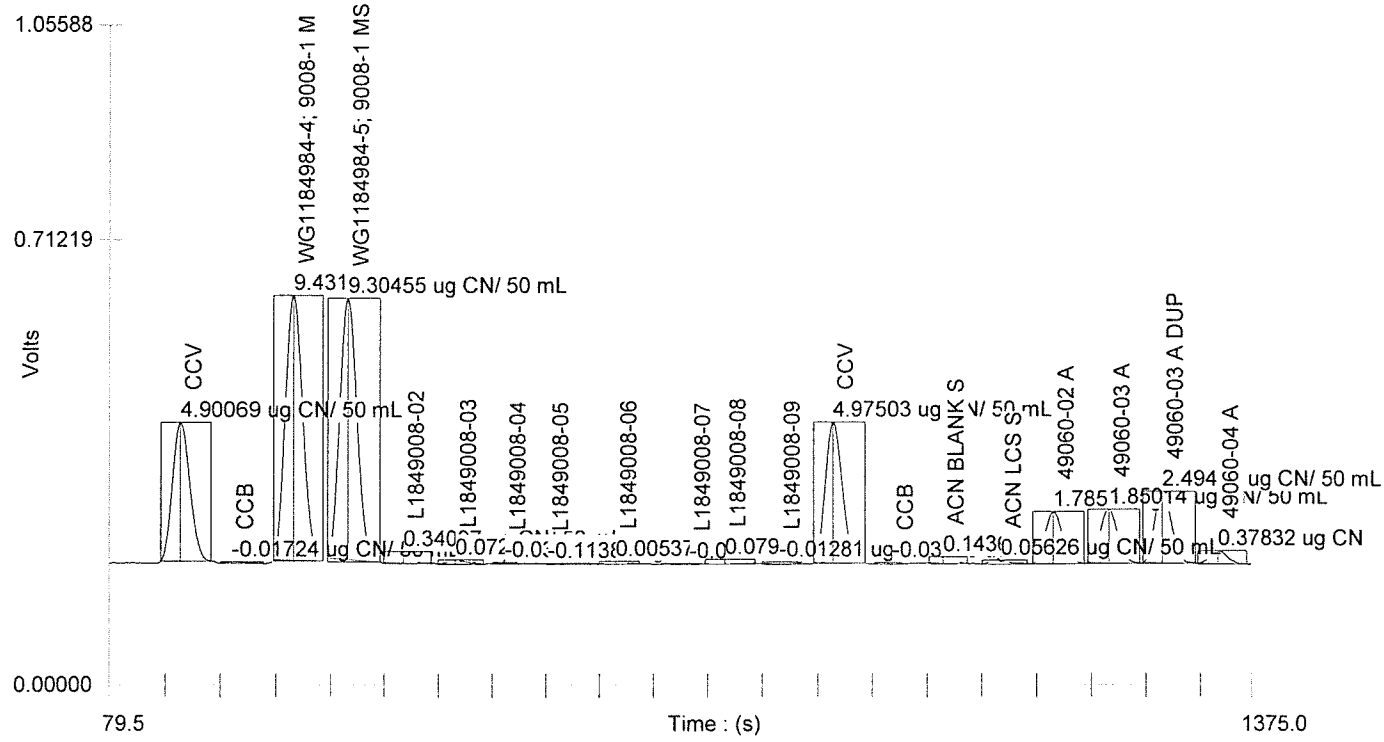
94.1
93.1

Tray 3A LMK

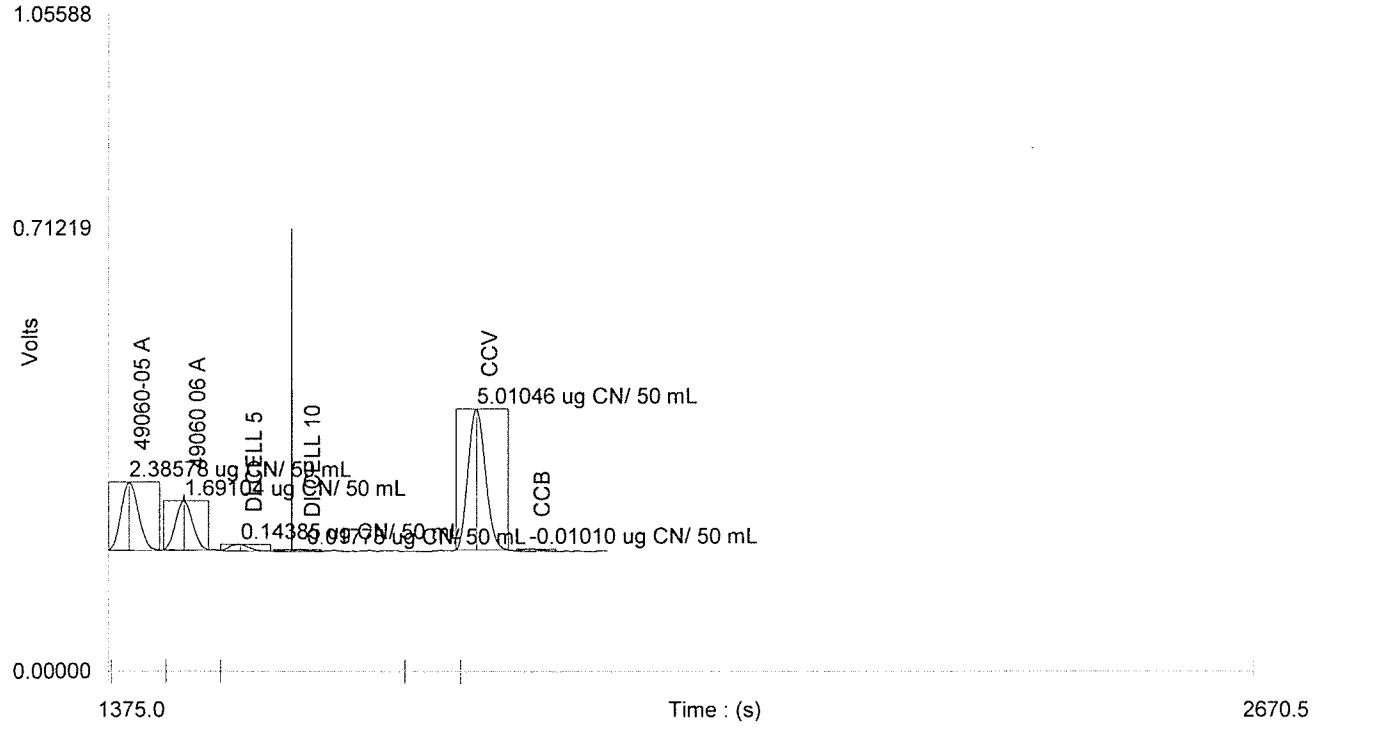
Author: <LKRASIN>

Date : 12/4/2018

Channel 1 (Cyanide) - Set: 1 / 2



Channel 1 (Cyanide) - Set: 2 / 2



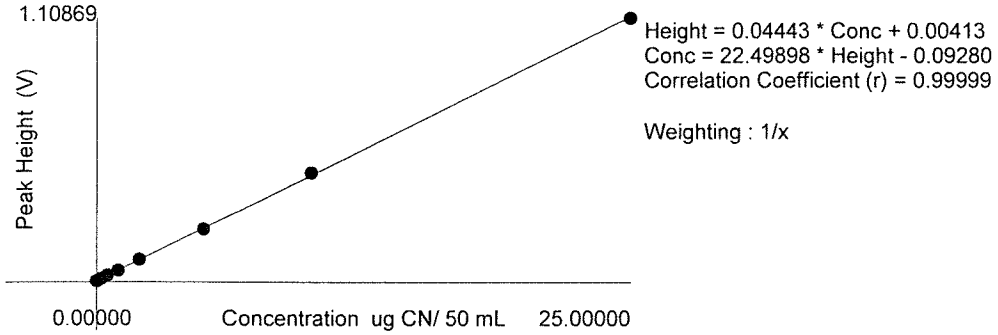
Tray 3A LMM

Author: <LKRASIN> Date : 12/4/2018

Table : 1 (Cyanide)

	Known Conc. (ug CN/ 50 mL)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (ug CN/ 50 mL)	Detection Date	Detection Time
1	25.00000	1	24.14094	1.10869	0.0	0.6	24.85152	12/4/2018	9:30:44 AM
2	10.00000	1	9.97046	0.45830	0.0	-2.2	10.21845	12/4/2018	9:31:46 AM
3	5.00000	1	4.89384	0.22160	0.0	2.1	4.89292	12/4/2018	9:32:48 AM
4	2.00000	1	2.00754	0.09412	0.0	-1.2	2.02475	12/4/2018	9:33:50 AM
5	1.00000	1	1.06430	0.04736	0.0	2.5	0.97272	12/4/2018	9:34:53 AM
6	0.50000	1	0.56527	0.02711	0.0	-2.9	0.51713	12/4/2018	9:35:56 AM
7	0.20000	1	0.30176	0.01352	0.0	-3.8	0.21129	12/4/2018	9:37:00 AM
8	0.00000	1	0.06241	0.00350			-0.01406	12/4/2018	9:38:03 AM

Figure : 1 (Cyanide)



Tray 3A LMK

Author: <LKRASIN> Date : 12/4/2018

Original Run Filename: OM_12-4-2018_02-45-50PM.OMN Created: 12/4/2018 2:45:50 PM
Original Run Author's Signature: [a1wetcheminstrument]
Current Run Filename: OM_12-4-2018_02-45-50PM.OMN Last Modified: 12/4/2018 4:18:31 PM
Current Run Author's Signature: [a1wetcheminstrument]
Description: 10-204-00-1-A

Sample	Rep.	Cup No.	Channel 1 Cyanide (ug CN/ 50 mL)	ADF	MDF	Weight	
CCV	1	S3	4.92539				
	Known Conc:		0.10000				
	Calibration:		Table/Fig. : 1				
CCB	1	S8	0.02236				
	Known Conc:		0.00000				
WG1185369-1; BLANK	1	1	-0.00071			50.00000 g	
WG1185368-1	1	2	-0.00120			50.00000 g	
WG1185368-2; LCS	1	3	0.09635			50.00000 g	96 L
WG1185369-2	1	4	0.09640			50.00000 g	96 L
WG1185369-3; LCSD	1	5	0.09636			50.00000 g	96 L
LCS HI	1	6	0.18349			50.00000 g	92 L
L1849210-01	1	7	-0.00102			50.00000 g	
L1849253-01	1	8	0.00054			50.00000 g	
WG1185368-3; 9253-1 DUP	1	9	-0.00094			50.00000 g	RPD=NC
L1849253-02	1	10	0.00042			50.00000 g	
CCV	1	S3	4.87880				
	Known Conc:		0.10000				
CCB	1	S8	-0.03788				
	Known Conc:		0.00000				
WG1185368-4; 9253-2 MS	1	11	0.19255			50.00000 g	96 L
L1849261-01	1	12	-0.00239			50.00000 g	
L1849292-01	1	13	0.00072			50.00000 g	
L1849292-02	1	14	0.00169			50.00000 g	
L1849040-06	1	15	-0.00084			50.00000 g	
L1849074-02	1	16	0.00086			50.00000 g	
WG1185369-4; 9074-2 MS	1	17	0.18635			50.00000 g	93 L
WG1185369-5; 9074-2 MSD	1	18	0.18657			50.00000 g	93 L
L1849074-03	1	19	0.00252			50.00000 g	
L1849074-04	1	20	0.00135			50.00000 g	
CCV	1	S3	4.93097				
	Known Conc:		0.10000				
CCB	1	S8	-0.01860				
	Known Conc:		0.00000				
L1849074-05	1	21	-0.00082			50.00000 g	
WG1184859-1; BLANK S	1	22	-0.05590			1.07590 g	
WG1184860-1	1	23	-0.12196			1.07590 g	
WG1184860-2; LCS S	1	24	28.53403			0.20230 g	30 L
WG1184860-3; LCSD S	1	25	61.11490			0.20250 g	65 L
WG1184859-2; LCS S	1	26	28.92164			0.20230 g	31 L
WG1184859-3; LCSD S	1	27	61.90290			0.20250 g	66 L
LCS HI	1	28	8.58468			1.03070 g	88 L
L1848806-01	1	29	-0.01621			1.07520 g	
L1848806-02	1	30	-0.03601			1.09110 g	
CCV	1	S3	5.04402				
	Known Conc:		0.10000				
CCB	1	S8	-0.06836				
	Known Conc:		0.00000				
L1848806-03	1	31	-0.02104			1.08810 g	
L1848806-04	1	32	-0.04859			1.06080 g	
L1848900-01	1	33	-0.04454			1.00650 g	
L1848900-02	1	34	-0.02291			1.05590 g	
L1848900-03	1	35	0.02919			1.00240 g	
L1848900-04	1	36	0.03639			1.05510 g	
~~L1848900-05~~	~~1~~	~~37~~	~~0.12646~~			~~1.08140 g~~	
L1848900-06	1	38	0.04165			1.05360 g	
WG1184859-4; 8900-6 MS	1	39	8.95222			1.01870 g	91 L
WG1184859-5; 8900-6 MSD	1	40	8.97746			1.01030 g	91 L
CCV	1	S3	4.92211				
	Known Conc:		0.10000				

G1185369-5
LMK 12/5/18

Tray 4 LMK

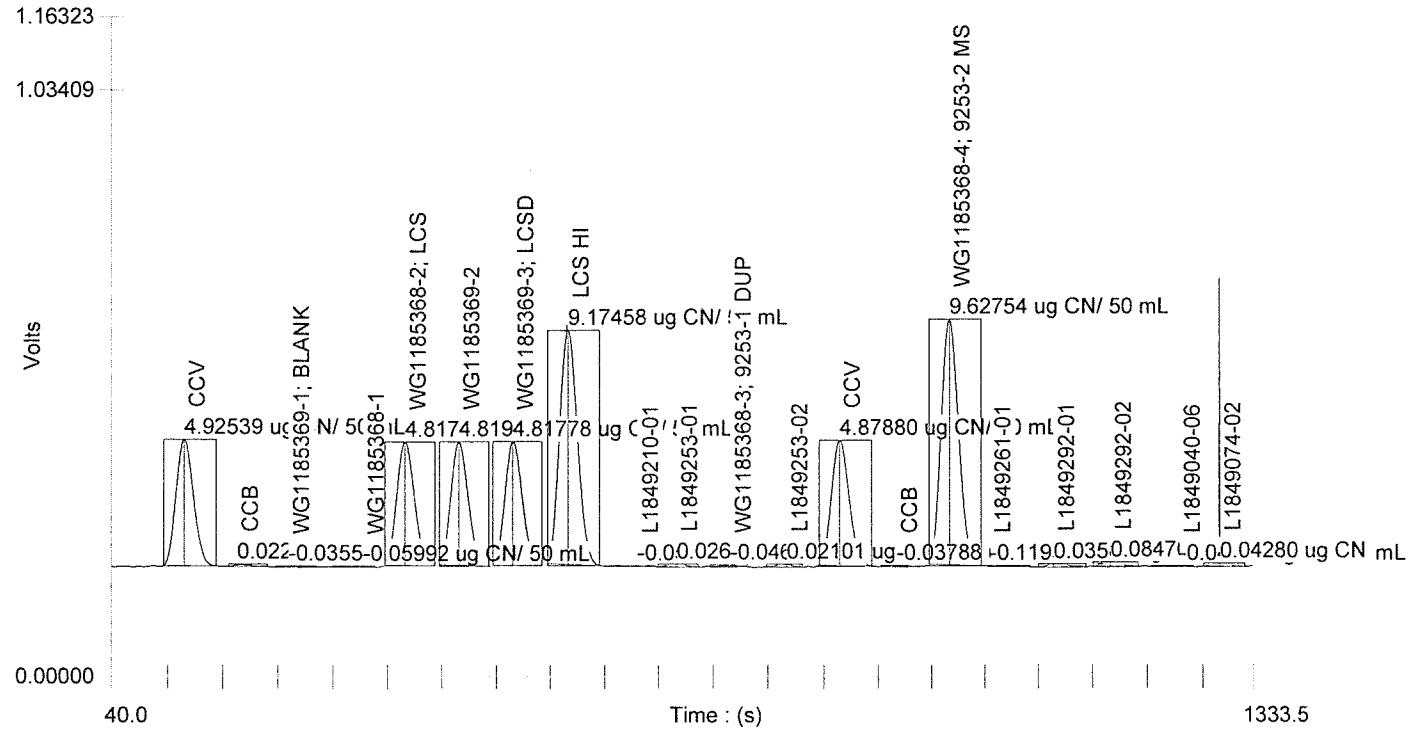
CCB	1	S8	-0.13165				
	Known Conc:		0.00000				
L1848900-07	1	41	0.10853			1.08620 g	
L1848900-08	1	42	-0.02865			1.02660 g	
L1848900-09	1	43	-0.01906			1.00830 g	
L1848900-10	1	44	-0.00693			1.05690 g	
L1848900-11	1	45	-0.00266			1.05910 g	
L1848900-12	1	46	0.00265			1.06130 g	
L1848900-13	1	47	0.06475			1.03600 g	
WG1184860-4; 8900-13 MS	1	48	8.80210			1.01500 g	89%
WG1184860-5; 8900-13 MSD	1	49	8.24624			1.09720 g	90%
L1848900-14	1	50	0.08282			1.05150 g	
CCV	1	S3	4.86688				
	Known Conc:		0.10000				
CCB	1	S8	-0.13840				
	Known Conc:		0.00000				
L1848900-15	1	51	0.08467			1.02860 g	
L1849143-21	1	52	-0.03643			1.00780 g	
WG1185095-1; BLANK	1	53	-0.00058			50.00000 g	
WG1185095-2; LCS	1	54	0.09399			50.00000 g	94%
WG1185095-3; LCSD	1	55	0.09483			50.00000 g	95%
LCS HI	1	56	0.17794			50.00000 g	89%
L1848797-01	1	57	0.00079			50.00000 g	
L1848797-02	1	58	-0.00056			50.00000 g	
L1848948-01	1	59	-0.00057			50.00000 g	
~~WG1185095-4; 8948-1 MS~~	~~1~~	~~60~~	~~0.14028~~			~~50.00000 g~~	
CCV	1	S3	4.89325				
	Known Conc:		0.10000				
CCB	1	S8	-0.11655				
	Known Conc:		0.00000				
WG1185095-5; 8948-1 MSD	1	61	0.17664			50.00000 g	88%
L1849040-01	1	62	0.03348			50.00000 g	
L1849040-02	1	63	0.00039			50.00000 g	
L1849040-03	1	64	-0.00092			50.00000 g	
L1849040-04	1	65	0.01065			50.00000 g	
L1849040-05	1	66	0.03665			50.00000 g	
L1849040-07	1	67	-0.00090			50.00000 g	
L1848900-05	1	37	-0.01641			1.08140 g	
WG1185095-4; 8948-1 MS	1	60	0.13980			50.00000 g	70%
CCV	1	S3	4.88885				
	Known Conc:		0.10000				
CCB	1	S8	-0.04145				
	Known Conc:		0.00000				

Tracy LMK

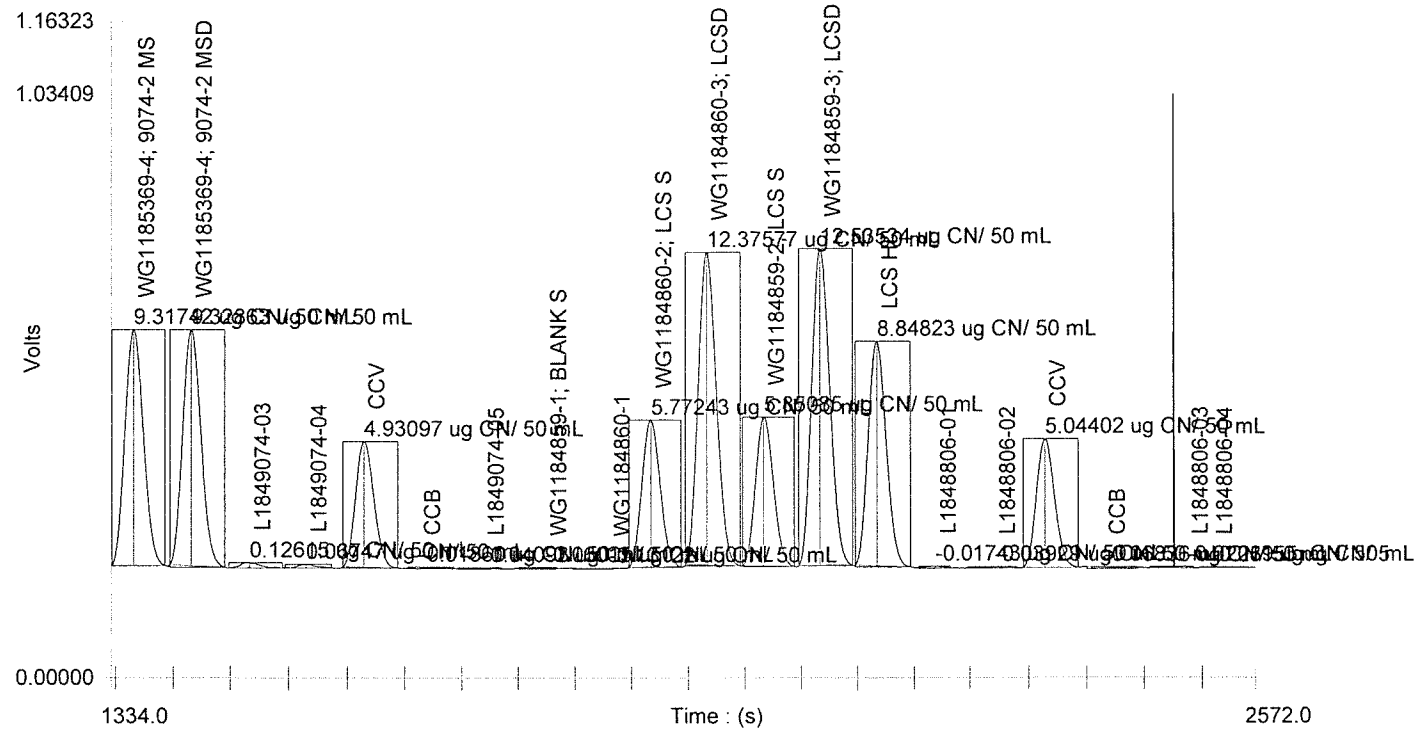
Author: <LKRASIN>

Date : 12/4/2018

Channel 1 (Cyanide) - Set: 1 / 5



Channel 1 (Cyanide) - Set: 2 / 5

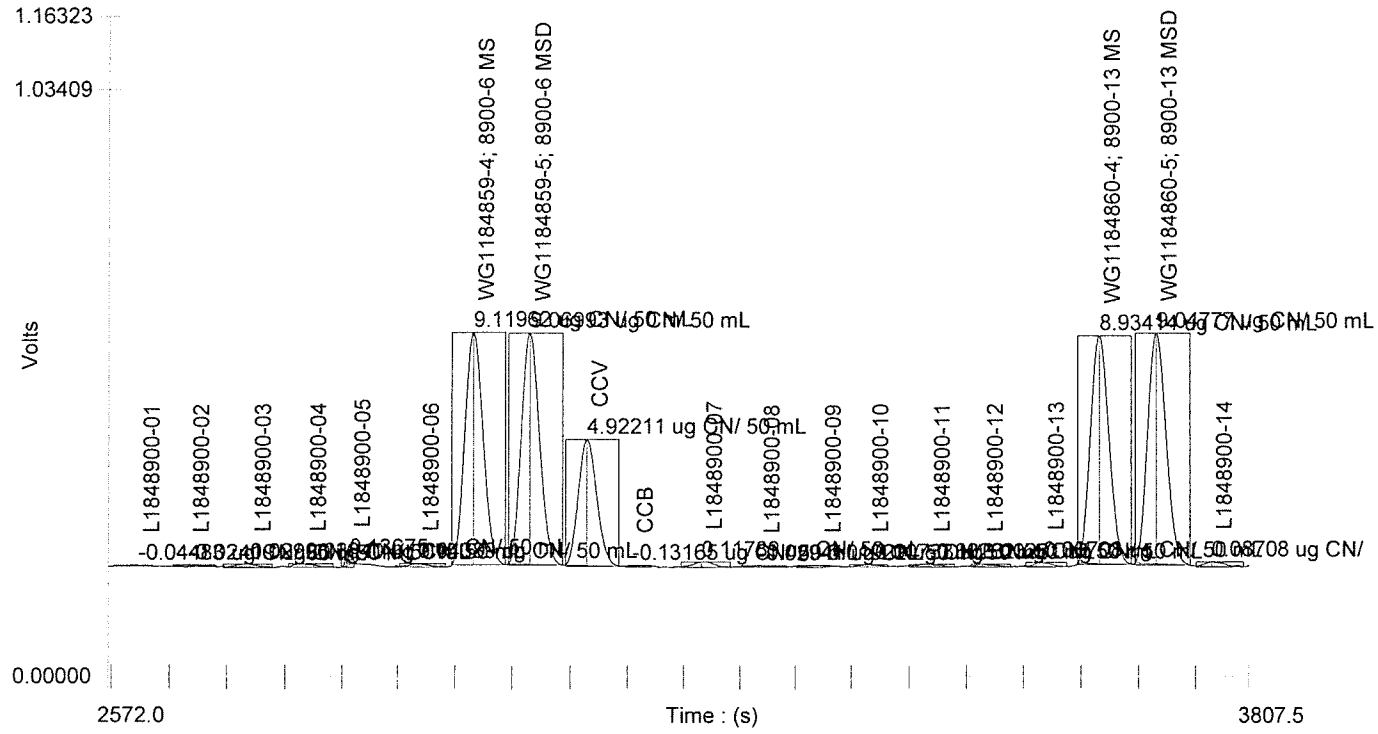


Tray 4 LHK

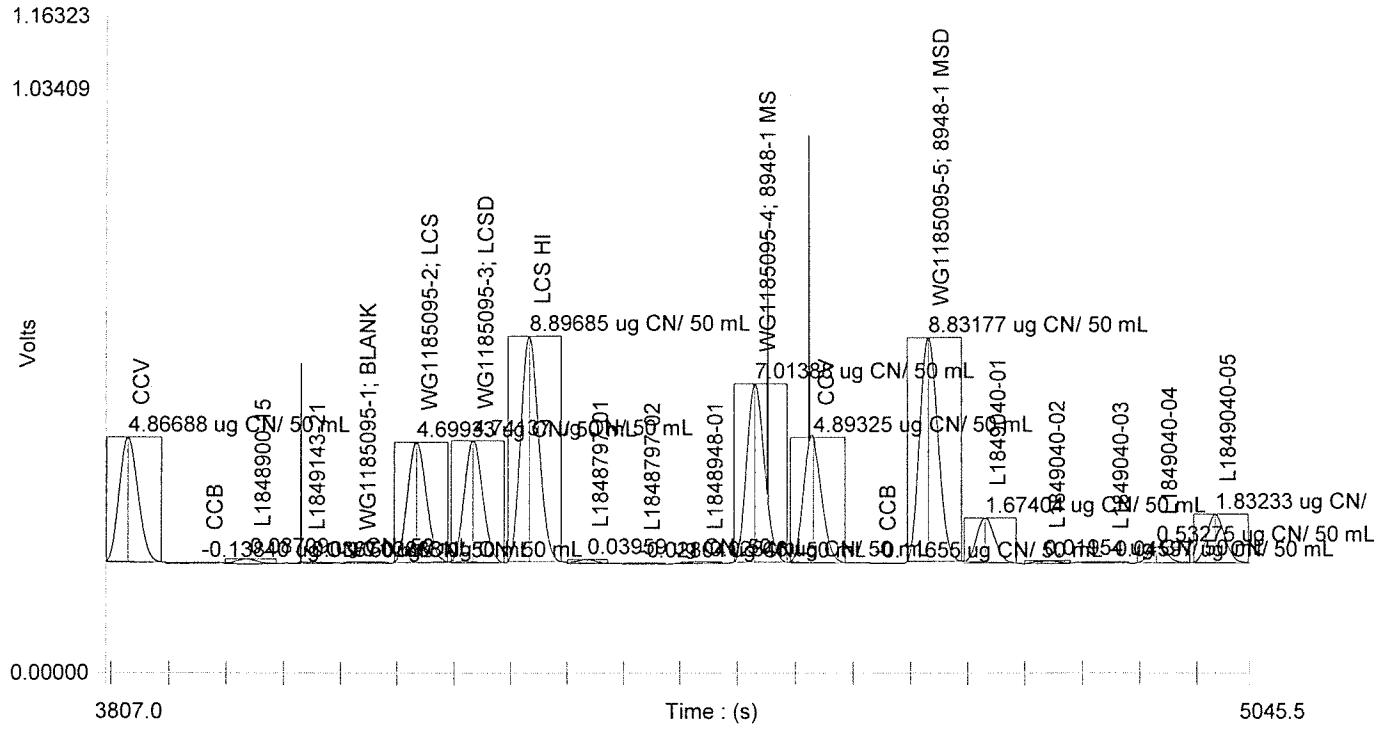
Author: <LKRASIN>

Date : 12/4/2018

Channel 1 (Cyanide) - Set: 3 / 5



Channel 1 (Cyanide) - Set: 4 / 5



Tray 4 LNK

Author: <LKRASIN>

Date : 12/4/2018

Channel 1 (Cyanide) - Set: 5 / 5

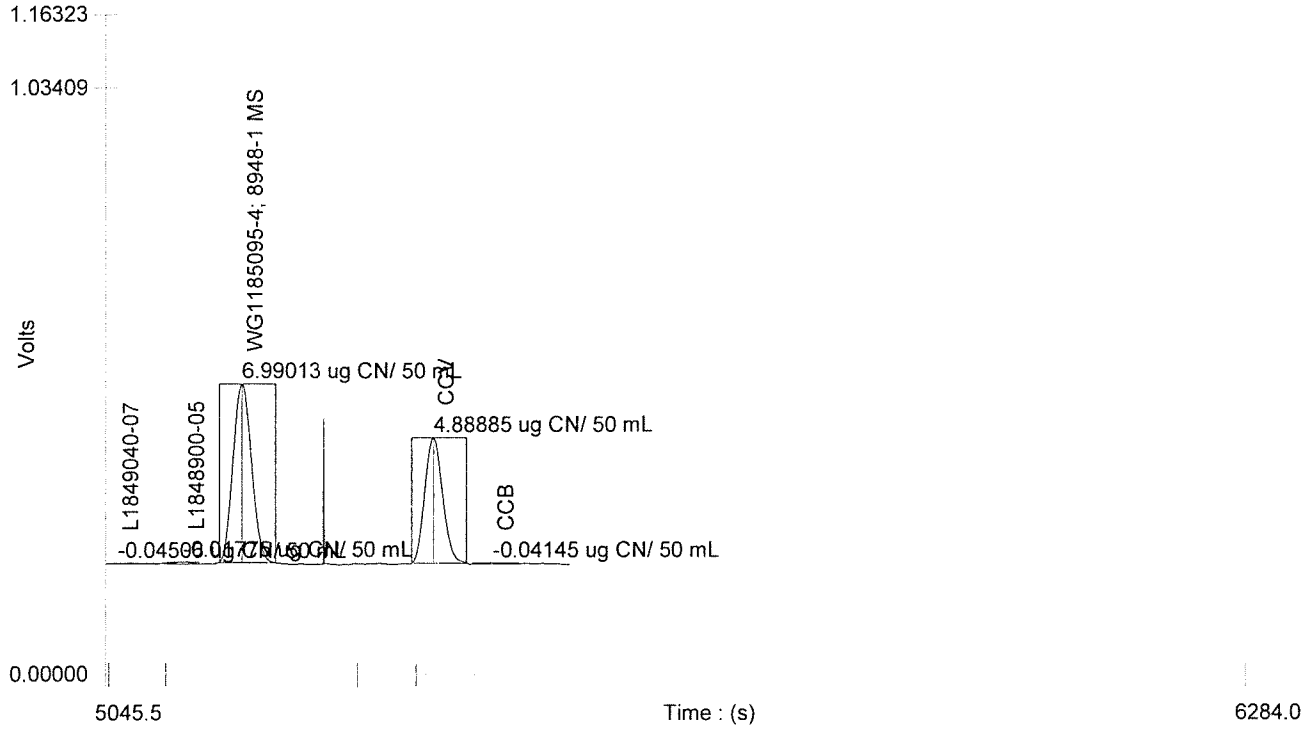
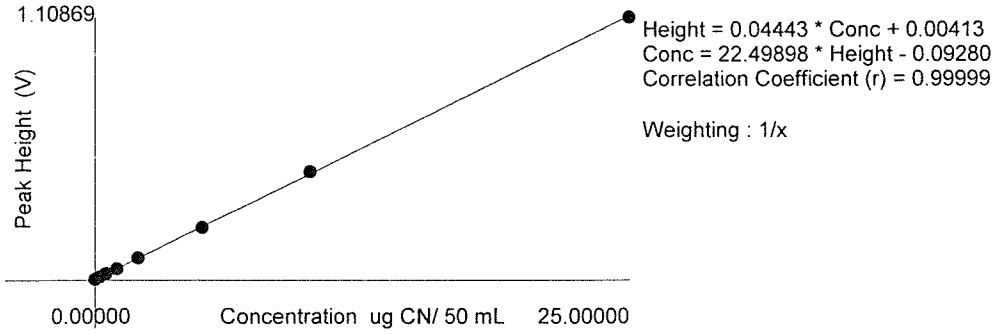


Table : 1 (Cyanide)

	Known Conc. (ug CN/ 50 mL)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (ug CN/ 50 mL)	Detection Date	Detection Time
1	25.00000	1	24.14094	1.10869	0.0	0.6	24.85152	12/4/2018	9:30:44 AM
2	10.00000	1	9.97046	0.45830	0.0	-2.2	10.21845	12/4/2018	9:31:46 AM
3	5.00000	1	4.89384	0.22160	0.0	2.1	4.89292	12/4/2018	9:32:48 AM
4	2.00000	1	2.00754	0.09412	0.0	-1.2	2.02475	12/4/2018	9:33:50 AM
5	1.00000	1	1.06430	0.04736	0.0	2.5	0.97272	12/4/2018	9:34:53 AM
6	0.50000	1	0.56527	0.02711	0.0	-2.9	0.51713	12/4/2018	9:35:56 AM
7	0.20000	1	0.30176	0.01352	0.0	-3.8	0.21129	12/4/2018	9:37:00 AM
8	0.00000	1	0.06241	0.00350			-0.01406	12/4/2018	9:38:03 AM

Figure : 1 (Cyanide)



Troy 4 LHK

ALPHA ANALYTICAL
SPECIAL PRODUCT WORKSHEET
WET CHEMISTRY DEPARTMENT

Entry List: SPECWC
Batch: WG1184980

Job Number: L1849060

prep: 12/3/18 @ 13:25
Analyzed: 12/4/18 @ ~~2:12~~ 14:12

Client: CHA **Analysis:** Amenable Cyanide (Soils) **Date:**

Written up by: Lee H Krasin

Checked by: JO

RL: 1.0 mg/kg

Sample Number	weight (g)	Dil.	TCN after Cl (mg/kg)	TCN	RL Multiplier	RESULT mg/kg	Qualifier
Blank	1.0653	1	0	0	1	0	
LCS	1.0284	1	0	10	1	10	100%
49060-2	1.0157	1	1.8	0	1	0	
-3	1.0461	1	1.8	0	1	0	
-3 Dup	1.0977	1	2.3	0	1	0	RPD=NC
-4	1.0212	1	0	0	1	0	
-5	1.0267	1	2.3	0	1	0	
-6	1.0899	1	1.6	0	1	0	
Spike Sample:							
Duplicate Sample:							

Comments:

Quality Control

Form 5a
Matrix Spike

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Client Sample ID	: CB-03	**Matrix**	: SOIL
Lab Sample ID	: L1849060-03		
Matrix Spike	: WG1184981-4	**MS Analysis Date**	: 12/04/18 13:49
Matrix Spike Dup	: WG1184981-5	**MSD Analysis Date**	: 12/04/18 13:50

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (mg/kg)	Spike Added (mg/kg)	Spike Conc. (mg/kg)	%R	Spike Added (mg/kg)	Spike Conc. (mg/kg)	%R	RPD	Recovery Limits	RPD Limit
Cyanide, Total	0.67J	19	18	90	20	20	96	11	75-125	35

Form 6
Lab Duplicates

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Client Sample ID	: CB-03	**Matrix**	: SOIL
Lab Sample ID	: L1849060-03	**Analysis Date**	: 12/04/18 14:12
Dup Sample ID	: WG1184980-3	**DUP Analysis Date**	: 12/04/18 14:12

Parameter	Sample Concentration (mg/kg)	Duplicate Concentration (mg/kg)	RPD	RPD Limit
Cyanide, Amenable	ND	ND	NC	30

Form 7
Laboratory Control Sample

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Client Sample ID	: NA	**Matrix**	: SOIL
Lab Sample ID	: WG1184980-2	**LCS Analysis Date**	: 12/04/18 14:12
Dup Sample ID	:	**LCSD Analysis Date**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
	True	Found	%R	True	Found	%R	RPD	Recovery	RPD
Parameter	(mg/kg)	(mg/kg)		(mg/kg)	(mg/kg)			Limits	Limit
Cyanide, Amenable	10.0	10.0	100.					80-120	30

Form 7
Laboratory Control Sample

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Client Sample ID	: NA	**Matrix**	: SOIL
Lab Sample ID	: WG1184981-2	**LCS Analysis Date**	: 12/04/18 13:38
Dup Sample ID	: WG1184981-3	**LCSD Analysis Date**	: 12/04/18 13:39

	Laboratory Control Sample			Laboratory Control Duplicate						
	True	Found	%R	True	Found	%R	RPD		Recovery	RPD
Parameter	(mg/kg)	(mg/kg)		(mg/kg)	(mg/kg)				Limits	Limit
Cyanide, Total	94.3	50.0	53.	94.3	82	86.	49	Q	80-120	35

Date Created: 08/02/17
Created By: Jason Hebert
File: PM3872-3
Page: 1

WETCHEM (WATER)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Cyanide, Total	57-12-5	0.005	0.0018	mg/l	90-110		90-110	30	30	4500CN-CE	14 days	1 - Plastic 250ml NaOH preserved
Cyanide, Total	57-12-5	0.005	0.0018	mg/l	85-115	20	80-120	20	20	9010C/9012B	14 days	1 - Plastic 250ml NaOH preserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Date Created: 08/11/17
Created By: Jason Hebert
File: PM3907-1
Page: 1

WETCHEM (SOIL)

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Method	Holding Time	Container/Sample Preservation
Cyanide, Total	57-12-5	1	0.212	mg/kg	80-120	35	75-125	35	35	9010C/9012B	14 days	1 - Glass 250ml/8oz unpreserved
Cyanide, Total	57-12-5	1	0.212	mg/kg	80-120	35	65-135	35	35	4500CN-CE	14 days	1 - Glass 250ml/8oz unpreserved

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of Alpha Analytical, Inc.

Calculations of Total Cyanide

Aqueous Samples

The instrument will calculate the concentration (µg/50mL).

Result, mg/L = Cs x (1mg/1000µg) x (1000mL/1L) x (DF)

Where:

C_s = Concentration of sample (µg/50mL)

DF = Dilution Factor

Soil or Solid Samples

Soil samples are calculated as follows:

$$\text{Result, mg/Kg} = \frac{C_s \times (1\text{mg}/1000\mu\text{g}) \times (1000\text{g}/1\text{Kg}) \times (DF)}{A}$$

Where:

C_s = Concentration of sample (µg/50mL)

DF = Dilution Factor

$$A = \frac{\text{Sample weight (grams)}}{\text{Final Volume (50mL)}}$$

Dry weight correction

Dry weight correction is calculated as follows:

$$\text{Final concentration in mg/Kg, dry weight} = \frac{\text{Result, mg/Kg}}{\text{\% solids}}$$

Where:

%solids = Percent Solids, as a decimal value

Calculations of Amenable Cyanide

Calculate the concentration value based on results for TCN and Chlorinated Cyanide (ACN). Term ACN is used for reading of Chlorinated Cyanide.

Aqueous samples:

mg AmenableCN/L = TCN(mg/l) - ACN (mg/l)

Soil samples:

mgAmenableCN/Kg = TCN(mg/Kg) - ACN(mg/Kg)

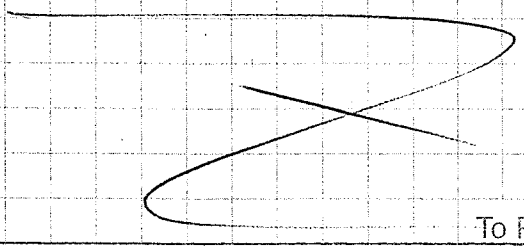
Sequence Logs

From Page No. _____

Pyridine-Barbituric: TCN-113018 -BR
Acetate Buffer: TCN-112618 -AB
Chloramine-T: TCN-120418 -CT
Sodium Hydroxide: TCN-120418 -C

Tray 1

1	ICV 0.1		
2	ICB		
3	WG1184530-1	Blanks	prepd 11/30 @22:20
4	WG1184482-1		
5	-2		
6	-3		
7	WG1184530-2		
8	-3		
9	LCS Hi:		
10	48472-2		
11	-3		
12	48754-2		
13	-4		
14	-6		
15	-8		
16	48975-1		
17	-1	MS	
18	-1	MSD	
19	-2		
20	-3		
21	48691-1		
22	-1	MS	
23	-1	MSD	
24	-2		
25	-3		
26	-4		
27	-5		
28	-6		
29	-7		
30	-8		
31	-9		
32	-10		
33	WG1184881-1	Blanks	
34	WG1184879-1	Blanks	prepd 12/3 @6:36
35	-2	LCSS	
36	-3	LCSD	
37	WG1184881-2	LCS S	
38	-3	LCSD	
39	LCS Hi:		
40	49143-1		
41	-1	MS	
42	-1	MSD	
43	-2		
44	-3		
45	-4		
46	-5		
47	-6		
48	-7		
49	-8		
50	-9		
51	-10		
52	-11		
53	-12		
54	-13		
55	-14		
56	-15		
57	-16		
58	-17		
59	-18		
60	-19		
61	-20		
62	20	MS	
63	-20	MSD	
64	DI cell S		
65	10		



To Page No. _____

Witnessed & Understood by me, _____ Date _____

Invented by: _____ Date _____

Recorded by: _____

From Page No. ____

Tray 2

1	WG1184486-1	Blank		prep'd
2	WG1184360-1			11/30
3	WG1184359-1			@13:20
4	-2	LCS		+18:00
5	-3	LCSD		
6	WG1184360-2	LCS		
7	-3	LCSD		
8	WG1184486-2	LCS		
9	-3	LCSD		
10	LCS #:			
11	48882-1			
12	-3			
13	-6			
14	-6	MS		
15	-6	MSD		
16	-8			
17	-10			
18	-12			
19	-14			
20	48975-4			
21	48787-1			
22	-1	MS		
23	-1	MSD		
24	-2			
25	-3			
26	-4			
27	48265-9			
28	-10			
29	-11			
30	-12			
31	-13			
32	-14			
33	-15			
34	-15	MS		
35	-15	MSD		

Tray 2A

36	WG1184273-1	Blank		prep'd
37	WG1184287-1			11/30
38	-2	LCS		@11:15
39	-3	LCSD		
40	WG1184273-2	LCS		
41	-3	LCSD		
42	LCS #:			
43	48715-1			
44	48888-1			
45	-2			
46	-3			
47	-4			
48	-4	MS		
49	-4	MSD		
50	-5			
51	-6			
52	-7			
53	-8			
54	-9			
55	-10			
56	-11			
57	-12			
58	-13			
59	-14			
60	-15			
61	-16			
62	-17			
63	-18			
64	-19			
65	-19	MS		
66	-19	MSD		
67	DI cell	5		
68		10		

To Page No. ____

Witnessed & Understood by me, Date

Invented by: Date

Recorded by:

Tray 3

1	WG1184392-1	Blank	prepd 11/30 e15:55	
2	WG1184396-1			
3	-2	LCS		
~~4~~	~~-3~~	~~LCSD~~ LMK 12/4/18		
5	WG1184392-2	LCS		
6	-3	LCSD		
7	LCS Hi			
8	48901-1			
9	-2			
10	-3			
11	48903-1			
12	-2			
13	-3			
14	-4			
15	-5			
16	-6			
17	-6	Dup		
18	-6	MS		
19	-6	MSD		
20	-7			
21	48720-1			
22	-1	MS		
23	-1	MSD		
24	-2			
25	-3			
26	-4			
27	-5			
28	-6			
29	-7			
30	48771-1			
31	-2			
32	-3			
33	WG1184981-1	Blank		
34	WG1184984-1			
35	-2	LCS		
36	WG1184984-3	LCSD		prepd 12/3 e12:50
37	WG1184981-2	LCS		
38	-3	LCSD		
39	LCS Hi			
40	48907-1			
41	-2			
42	48969-1			
43	49060-2			
44	-3			
45	-3	MS		
46	-3	MSD		
47	-4			
48	-5			
49	-6			
50	49008-1			
51	-1	MS	→ Tray 3A	
52	-1	MSD		
53	-2			
54	-3			
55	-4			
56	-5			
57	-6			
58	-7			
59	-8			
60	-9			
61	ACN Blank			prepd 12/3 e13:25
62	ACN LCS			
63	49060-2			
64	-3			
65	-3	Dup		
66	-4			
67	-5			
68	-6			
69	DI cell			
70	10			

Witnessed & Understood by me, Date

Invented by: Date

Recorded by:

TITLE TCN 12/4/18 cont. LHK

Project No. _____

Book No. _____

Confidential

From Page No. ____

Tray 4

1	WG1185369-1	Blank	prepd 12/4	
2	WG1185368-1		@10:55	
3	-2	LCS		
4	WG1185369-2			
5	-3	LCSD		
6	LCS #:			
7	49210-1			
8	49253-1			
9	-1	Dup		
10	-2			
11	-2	MS		
12	49261-1			
13	49292-1			
14	-2			
15	49040-6			
16	49074-2			
17	-2	MS		
18	-2	MSD		
19	-3			
20	-4			
21	-5			
22	WG1184859-1	Blanks	prepd 12/3	
23	WG1184860-1		@2:39	
24	-2	LCS		
25	-3	LCSDS		
26	WG1184859-2	LCS		
27	-3	LCSDS		
28	LCS #:			
29	48806-1			
30	-2			
31	-3			
32	-4			
33	48900-1			
34	-2			
35	-3			
36	48900-4			
37	-5	⊗		
38	-6			
39	-6	MS		
40	-6	MSD		
41	-7			
42	-8			
43	-9			
44	-10			
45	-11			
46	-12			
47	-13			
48	-13	MS		
49	-13	MSD		
50	-14			
51	-15			
52	49143-21			
53	WG1185095-1	Blank	prepd 12/3	
54	-2	LCS	@21:35	
55	-3	LCSD		
56	LCS #:			
57	48797-1			
58	-2			
59	48948-1			
60	-1	MS ⊗		
61	-1	MSD		
62	49040-1			
63	-2			
64	-3			
65	-4			
66	-5			
67	-7			
68				

To Page No. ____

Witnessed & Understood by me, Date

Invented by: Date

Recorded by:

Sample Preparation

Block ID: B102142

Sulfamic Acid, 0.4N	Sulfuric Acid, 50%	MgCl2, 2.5M	NaOH, 1N	LCS, 10ppm	MS, 10ppm
Lot#: TCN- 112818SulfAcn	Lot#: TCN- 112518SA	Lot#: TCN- 111618Mg	Lot#: TCN- 113018N	Lot#: TCN- 113018LCS	Lot#: TCN- 113018MS

	Sample	Date	Analyst	Wt. (g)	Spike Vol (mL)	Sulfamic Acid (mL)	H2SO4 (mL)	MgCl2 (mL)	NaOH (mL)	Final Vol (mL)	Comment
						5	5	2	50	50	
1	BLK	11/30/18	AB	1.0663							
2	LCS	11:15		0.2234							
3	LCSD			0.2261							
4	LCS Hi			1.0348	1.0						
5	DI										
6	48715-01			1.0064							
7	48888-01			1.0207							
8	-02			1.0815							
9	-03			1.0788							
10	DI										
11	48888-04			1.0365							
12	-04MS			1.0363	1.0						
13	-04MSD			1.0411	1.0						
14	-05			1.0364							
15	-06			1.0675							
16	-07			1.0249							
17	-08			1.0929							
18	-09			1.0676							
19	-10			1.0293							
20	-11			1.0824							

SRM Lot: DO99-541

Pre-Qualtrax Document ID: 07-

Document Type: Form

Department: Wet Chemistry
Title: Cyanide Soil/Solid Midi Distillation Log

Block ID: Blue 3

Sulfamic Acid, 0.4N	Sulfuric Acid, 50%	MgCl2, 2.5M	NaOH, 1N	LCS, 10ppm	MS, 10ppm
Lot#: TCN- 112818 Sulfa	Lot#: TCN- 112518 S4	Lot#: TCN- 111618 MG	Lot#: TCN- 113018 N	Lot#: TCN- 113018 LCS	Lot#: TCN- 113018 MS

	Sample	Date	Analyst	Wt. (g)	Spike Vol (mL)	Sulfamic Acid (mL)	H2SO4 (mL)	MgCl2 (mL)	NaOH (mL)	Final Vol (mL)	Comment
1	48888-12	11/30/18	AB	1.0644		5	5	2	50	50	
2	-13	11:15		1.0621							
3	-14			1.0841							
4	-15			1.0544							
5	-16			1.0123							
6	-17			1.0169							
7	-18			1.0694							
8	-19			1.0285							
9	-19MS			1.0183	1.0						
10	-19MSD			1.0652	1.0						
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											

SRM Lot: 0096-541

Pre-Qualtrax Document ID: 07-09

Document Type: Form

Block ID: Blue # 1+2

Sulfamic Acid, 0.4N	Sulfuric Acid, 50%	MgCl2, 2.5M	NaOH, 1N	LCS, 10ppm	MS, 10ppm
Lot#: TCN-122818-SULFA	Lot#: TCN-112518-SA	Lot#: TCN-111618-M	Lot#: TCN-113018-N	Lot#: TCN-113018-LCS	Lot#: TCN-113018-MS

	Sample	Date	Analyst	Wt. (g)	Spike Vol (mL)	Sulfamic Acid (mL)	H2SO4 (mL)	MgCl2 (mL)	NaOH (mL)	Final Vol (mL)	Comment
1	Blank	11/30/18	MM	1.0581		5	5	2	50	50	
2	LCS	22:20		0.2190		↓	↓	↓	↓	↓	
3	LCSD			0.2199							
4	LCS 1ti			1.0116	1.0						
5	DI Rinse	mm 11/30/18		~~1.0353~~							
6	486091-1			1.0353							
7	-1MS			1.0304	1.0						
8	-1MSD			1.0647	1.0						
9	-2			1.0598							
10	DI Rinse	mm 11/30/18		~~1.0~~							
11	486091-3			1.0916							
12	-4			1.0644							
13	-5			1.0384							
14	-6			1.0753							
15	-7			1.0515							
16	-8			1.0348							
17	-9			1.0171							
18	-10			1.0009							
19	486472-2			1.0865							
20	-3			1.0875		↓	↓	↓	↓	↓	

SRM Lot: D099-541

Block ID: Blue #3

Sulfamic Acid, 0.4N	Sulfuric Acid, 50%	MgCl2, 2.5M	NaOH, 1N	LCS, 10ppm	MS, 10ppm
Lot#: TCN- 112818-SULFA	Lot#: TCN- 112518-SA	Lot#: TCN- 111618-M	Lot#: TCN- 113018-N	Lot#: TCN- 113018-LCS	Lot#: TCN- 113018-MS

	Sample	Date	Analyst	Wt. (g)	Spike Vol (mL)	Sulfamic Acid (mL)	H2SO4 (mL)	MgCl2 (mL)	NaOH (mL)	Final Vol (mL)	Comment
1	48754-7	11/30/18	MM	1.0125		5	5	2	50	50	
2	-4	22:20		1.0446		↓	↓	↓	↓	↓	
3	-6			1.0216							
4	-8			1.0443							
5	48975-1			1.0094							
6	-1 MS			1.0142	1.0						
7	-1 MSD			1.0023	1.0						
8	-2			1.0827							
9	-3			1.0655		↓	↓	↓	↓	↓	
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											

SRM Lot: _____

Alpha Analytical, Inc.
Facility: Westborough, MA
Department: Wet Chemistry
Title: Cyanide Soil/Solid Midi Distillation Log

Block ID: Blue 3+4

Sulfamic Acid, 0.4N Sulfa — Lot#: TCN- 112818
Sulfuric Acid, 50% S.A. — Lot#: TCN- 112518
MgCl2, 2.5M mg — Lot#: TCN- 111618
NaOH, 1N Na — Lot#: TCN- 120218
LCS, 10ppm LCS — Lot#: TCN- 120318
MS, 10ppm MS — Lot#: TCN- 120318

	Sample	Date	Analyst	Wt. (g)	Spike Vol (mL)	Sulfamic Acid (mL)	H2SO4 (mL)	MgCl2 (mL)	NaOH (mL)	Final Vol (mL)	Comment
						5	5	2	50	50	
1	Blank	12/3/18	KF	1.0759							
2	LCS	02:39-07:29		0.2023							
3	LCS D			0.2025							
4	LCS Hi			1.0307	1.0						
5	L1848806 - 01			1.0752							
6	-02			1.0911							
7	-03			1.0881							
8	-04			1.0608							
9	L1848900 -01			1.0065							
10	-02			1.0559							
11	-03			1.0024							
12	-04			1.0551							
13	-05			1.0814							
14	-06			1.0536							
15	-MS			1.0187	1.0						
16	-MSD			1.0103	1.0						
17	-07			1.0862							
18	-08			1.0266							
19	-09			1.0053							
20	-10			1.0569							

SRM Lot: D099-541

Block ID: Blue 5

Sulfamic Acid, 0.4N S.A.	Sulfuric Acid, 50% S.A.	MgCl2, 2.5M mg	NaOH, 1N Na	LCS, 10ppm LCS	MS, 10ppm MS
Lot#: TCN-112818	Lot#: TCN-112518	Lot#: TCN-111618	Lot#: TCN-120218	Lot#: TCN-120818	Lot#: TCN-120818

	Sample	Date	Analyst	Wt. (g)	Spike Vol (mL)	Sulfamic Acid (mL)	H2SO4 (mL)	MgCl2 (mL)	NaOH (mL)	Final Vol (mL)	Comment
1	L1848908 -11	12/3/18	KF	1.0591		5	5	2	50	50	
2	-12	02:39-04:29		1.0613							
3	-13			1.0366							
4	-MS			1.0150	1.0						
5	-MSD			1.0972	1.0						
6	-14			1.0515							
7	-15			1.0286							
8	L1849143 -21			1.0078							
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											

SRM Lot: _____

Block ID: Blue 3+4

Sulfamic Acid, 0.4N Lot#: TCN- 112818 | Sulfuric Acid, 50% S.A. Lot#: TCN- 112518 | MgCl2, 2.5M Lot#: TCN- 111618 | NaOH, 1N Lot#: TCN- 120218 | LCS, 10ppm Lot#: TCN- 120318 | MS, 10ppm Lot#: TCN- 120318

	Sample	Date	Analyst	Wt. (g)	Spike Vol (mL)	Sulfamic Acid (mL)	H2SO4 (mL)	MgCl2 (mL)	NaOH (mL)	Final Vol (mL)	Comment
1	Blank	12/3/18	KF	1.0330		5	5	2	50	50	
2	LCS	06:36-08:24		0.2092							
3	LCS D			0.2058							
4	LCS Hi			1.0608	1.0						
5	L1849143 -01			1.0294							
6	- MS			1.0585	1.0						
7	- MSD			1.0105	1.0						
8	-02			1.0218							
9	-03			1.0983							
10	-04			1.0960							
11	-05			1.0282							
12	-06			1.0433							
13	-07			1.0182							
14	-08			1.0212							
15	-09			1.0004							
16	-10			1.0192							
17	-11			1.0024							
18	-12			1.0553							
19	-13			1.0046							
20	-14	↓	↓	1.0192		↓	↓	↓	↓	↓	

SRM Lot: _____

Block ID: Blue 5

Sulfamic Acid, 0.4N SA — Lot#: TCN- 112818
Sulfuric Acid, 50% S.A. — Lot#: TCN- 112518
MgCl2, 2.5M mg — Lot#: TCN- 111618
NaOH, 1N Na — Lot#: TCN- 120218
LCS, 10ppm LCS — Lot#: TCN- 120318
MS, 10ppm MS — Lot#: TCN- 120318

	Sample	Date	Analyst	Wt. (g)	Spike Vol (mL)	Sulfamic Acid (mL)	H2SO4 (mL)	MgCl2 (mL)	NaOH (mL)	Final Vol (mL)	Comment
1	L1849143 -15	12/3/18	KF	1.0576		5	5	2	50	50	
2	-16	06:36-08:26		1.0560							
3	-17			1.0775							
4	-18			1.0902							
5	-19			1.0418							
6	-20			1.0623							
7	-MS			1.0216	1.0						
8	-MSD			1.0048	1.0						
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											

SRM Lot: _____

Block ID: Blue 3 + 4

Sulfamic Acid, 0.4N	Sulfuric Acid, 50%	MgCl2, 2.5M	NaOH, 1N	LCS, 10ppm	MS, 10ppm
Lot#: TCN- 112818 SAM	Lot#: TCN- 113018 SA	Lot#: TCN- 111618 Mg	Lot#: TCN- 120318 N	Lot#: TCN- 120318 LCS	Lot#: TCN- 120318 MS

	Sample	Date	Analyst	Wt. (g)	Spike Vol (mL)	Sulfamic Acid (mL)	H2SO4 (mL)	MgCl2 (mL)	NaOH (mL)	Final Vol (mL)	Comment
1	BLK	12/3/18	AS	1.0831		5	5	2	50	50	
2	LCS	12:50		0.2073							
3	LCSD			0.2093							
4	LCS NI			1.0750	1.0						
5	48907-01			1.0498							
6	1 -02			1.0970							
7	48969-01			1.0156							
8	49060-02			1.0915							
9	-03			1.0000							
10	-03MS			1.0389	1.0						
11	-03MSD			1.0001	1.0						
12	-04			1.0538							
13	-05			1.0375							
14	-06			1.0634							
15	49008-01			1.0345							
16	-01MS			1.0363	1.0						
17	-01MSD			1.0226	1.0						
18	-02			1.0032							
19	-03			1.0173							
20	-04			1.0611							

SRM Lot: D099-541

Pre-Qualtrax Document ID: 07-09

Document Type: Form

Facility: Westborough, MA
Department: Wet Chemistry
Title: Cyanide Soil/Solid Midi Distillation Log

Block ID: Blue 5

Sulfamic Acid, 0.4N	Sulfuric Acid, 50%	MgCl2, 2.5M	NaOH, 1N	LCS, 10ppm	MS, 10ppm
Lot#: TCN- 112818SULPAC	Lot#: TCN- 113018SA	Lot#: TCN- 111618MG	Lot#: TCN- 120318NA	Lot#: TCN- 120318LCS	Lot#: TCN- 120318MS

	Sample	Date	Analyst	Wt. (g)	Spike Vol (mL)	Sulfamic Acid (mL)	H2SO4 (mL)	MgCl2 (mL)	NaOH (mL)	Final Vol (mL)	Comment
1	490008-05	12/3/18	AG	1.0128		5	5	2	50	50	
2	-06	12:50		1.0006							
3	-07			1.0918							
4	-08			1.0306							
5	-09			1.0862							
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											

SRM Lot: 0919-541

Pre-Qualtrax Document ID: 07-0

Document Type: Form

Alpha Analytical, Inc.
Facility: Westborough, MA
Department: Wet Chemistry
Title: Cyanide Soil/Solid Midi Distillation Log

112818 ACN

Block ID: Blue 1

Sulfamic Acid, 0.4N	Sulfuric Acid, 50%	MgCl2, 2.5M	NaOH, 1N	LCS, 10ppm	MS, 10ppm
Lot#: TCN- ~~H3.818~~ SULF	Lot#: TCN- 113018 SA	Lot#: TCN- 111618 MG	Lot#: TCN- 120318 N	Lot#: TCN- 120318 LCS	Lot#: TCN- 120318 MS

	Sample	Date	Analyst	Wt. (g)	Spike Vol (mL)	Sulfamic Acid (mL)	H2SO4 (mL)	MgCl2 (mL)	NaOH (mL)	Final Vol (mL)	Comment
1	BLK	12/3/18	AB	1.0653		5	5	2	50	50	25:50 ml dI
2	LCS	13:25		1.0284	1.0						
3	49060-02			1.0157							
4	" -03			1.0461							
5	DT										
6	49060-03DP			1.0977							
7	-04			1.0212							
8	-05			1.0267							
9	-06			1.0899							
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											

SRM Lot: _____

Pre-Qualtrax Document ID: 0

Document Type: Form

Block ID: Blue 4+5

Sulfamic Acid, 0.4N	Sulfuric Acid, 50%	MgCl2, 2.5M	NaOH, 1N	LCS, 10ppm	MS, 10ppm
Lot#: TCN- 112818SULPAM	Lot#: TCN- 112518SA	Lot#: TCN- 111618MG	Lot#: TCN- 113018N	Lot#: TCN- 113018LCS	Lot#: TCN- 113018MS

Tube ID	Sample	Date	Analyst	Vol. (mL)	pH	pH Adjusted	Cl2 Check	Cl2 treated	S-2 Check	S-2 treated	Spike Vol (mL)	Sulfamic Acid (mL)	H2SO4 (mL)	MgCl2 (mL)	NaOH (mL)	Final Vol (mL)	Comment
												5	5	2	50	50	
1	48265-09	11/20/18	AS	50	7.2		—		—								
2	-10	13:20															
3	-11																
4	-12																
5	-13																
6	-14																
7	-15										1.0						
8	-15MS										1.0						
9	-15MSD																
10																	
11	BLK										0.5						
12	LCS										0.5						
13	LCSD										1.0						
14	LCS Hi																
15	48787-01										1.0						
16	-01MS										1.0						
17	-01MSD																
18	-02																
19	-03																
20	-04																

Pre-Qualtrax Document ID: 07-08

Document Type: Form

Block ID: Blue 1 + 2

Sulfamic Acid, 0.4N	Sulfuric Acid, 50%	MgCl2, 2.5M	NaOH, 1N	LCS, 10ppm	MS, 10ppm
Lot#: TCN- 112818 SOlfam	Lot#: TCN- 113018 SA	Lot#: TCN- 111618 Mg	Lot#: TCN- 113018 N	Lot#: TCN- 113018 LCS	Lot#: TCN- 113018 MS

Tube ID	Sample	Date	Analyst	Vol. (mL)	pH	pH Adjusted	Cl2 Check	Cl2 treated	S-2 Check	S-2 treated	Spike Vol (mL)	Sulfamic Acid (mL)	H2SO4 (mL)	MgCl2 (mL)	NaOH (mL)	Final Vol (mL)	Comment
1	48771-01	11/30/18	AG	50	~2		–		–			5	5	2	50	50	
2	-02	15:55															
3	-03																
4	48720-01																
5	-01MS										1.0						
6	-01MSD										1.0						
7	-02																
8	-03																
9	-04																
10	DI																
11	48720-05																
12	-06																
13	-07																
14	BLK																
15	LCS										0.5						
16	LCS D										0.5						
17	LCS Hi										1.0						
18	48901-01																
19	-02																
20	-03																

Document Type: Form

Pre-Qualtrax Document ID: 07-08

Block ID: Blue 3

Sulfamic Acid, 0.4N	Sulfuric Acid, 50%	MgCl2, 2.5M	NaOH, 1N	LCS, 10ppm	MS, 10ppm
Lot#: TCN- 112818 SulfAm	Lot#: TCN- 113018 SA	Lot#: TCN- 111618 Mg	Lot#: TCN- 113018 N	Lot#: TCN- 113018 LCS	Lot#: TCN- 113018 MS

Tube ID	Sample	Date	Analyst	Vol. (mL)	pH	pH Adjusted	Cl2 Check	Cl2 treated	S-2 Check	S-2 treated	Spike Vol (mL)	Sulfamic Acid (mL)	H2SO4 (mL)	MgCl2 (mL)	NaOH (mL)	Final Vol (mL)	Comment
1	48903-01	11/30/18	AB	50	>12		–		–			5	5	2	50	50	
2	-02	15:55															
3	-03																
4	-04																
5	-05																
6	-06																
7	-06DP																
8	-06MS										1.0						
9	-06MSD										1.0						
10	-07																
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	

Alpha Analytical, Inc.
Facility: Westborough, MA
Department: Wet Chemistry
Title: Cyanide Aqueous Midi Distillation Log

Block ID: Blue 5

Sulfamic Acid, 0.4N Lot#: TCN- 112818SulfA
Sulfuric Acid, 50% Lot#: TCN- 113018SA
MgCl2, 2.5M Lot#: TCN- 111618Mg
NaOH, 1N Lot#: TCN- 113018N
LCS, 10ppm Lot#: TCN- 113018LCS
MS, 10ppm Lot#: TCN- 113018MS

Tube ID	Sample	Date	Analyst	Vol. (mL)	pH	pH Adjusted	Cl2 Check	Cl2 treated	S-2 Check	S-2 treated	Spike Vol (mL)	Sulfamic Acid (mL)	H2SO4 (mL)	MgCl2 (mL)	NaOH (mL)	Final Vol (mL)	Comment
												5	5	2	50	50	
1	48882-01	11/30/18 18:00	AS	50	12		—		—								
2	-03										1.0						
3	-06										1.0						
4	-06MS																
5	-06MSD																
6	-08																
7	-10																
8	-12																
9	-14																
10	~~48882~~ 48975-04																
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	

Pre-Qualtrax Document ID

Document Type: Form

Block ID: Blue 5

Sulfamic Acid, 0.4N	Sulfuric Acid, 50%	MgCl2, 2.5M	NaOH, 1N	LCS, 10ppm	MS, 10ppm
Lot#: TCN- 112818SulfAm	Lot#: TCN- 113018SO	Lot#: TCN- 111618'3	Lot#: TCN- 120318N	Lot#: TCN- 120318LCS	Lot#: TCN- 120318MS

Tube ID	Sample	Date	Analyst	Vol. (mL)	pH	pH Adjusted	Cl2 Check	Cl2 treated	S-2 Check	S-2 treated	Spike Vol (mL)	Sulfamic Acid (mL)	H2SO4 (mL)	MgCl2 (mL)	NaOH (mL)	Final Vol (mL)	Comment
1				50								5	5	2	50	50	
2																	
3																	
4																	
5																	
6	BLK	12/3/18	AG	50													
7	LCS	12:50									0.5						
8	LCSD										0.5						
9	LCSH										1.0						
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	

Block ID: Blue # 1 & 2

Sulfamic Acid, 0.4N	Sulfuric Acid, 50%	MgCl2, 2.5M	NaOH, 1N	LCS, 10ppm	MS, 10ppm
Lot#: TCN- 112818-SulfA	Lot#: TCN- 113018-SA	Lot#: TCN- 111618-M	Lot#: TCN- 120318-N	Lot#: TCN- 120318-LCS	Lot#: TCN- 120318-MS

Tube ID	Sample	Date	Analyst	Vol. (mL)	pH	pH Adjusted	Cl2 Check	Cl2 treated	S-2 Check	S-2 treated	Spike Vol (mL)	Sulfamic Acid (mL)	H2SO4 (mL)	MgCl2 (mL)	NaOH (mL)	Final Vol (mL)	Comment
1	48797-1	12/3/18	ML/MM	50	≥12		—		—			5	5	2	50	50	
2	-2	21:35															
3	48948-1																
4	-1MS										1.0						
5	-1MSD										1.0						
6	49040-1																
7	-2																
8	-3																
9	-4																
10	-5																
11	-7																
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	

Block ID: Blue 4+5

Sulfamic Acid, 0.4N Lot#: TCN- 112818SulfAc
Sulfuric Acid, 50% Lot#: TCN- 113018SA
MgCl2, 2.5M Lot#: TCN- 120318Mg
NaOH, 1N Lot#: TCN- 120418N
LCS, 10ppm Lot#: TCN- 120418LCS
MS, 10ppm Lot#: TCN- 120418MS

Tube ID	Sample	Date	Analyst	Vol. (mL)	pH	pH Adjusted	Cl2 Check	Cl2 treated	S-2 Check	S-2 treated	Spike Vol (mL)	Sulfamic Acid (mL)	H2SO4 (mL)	MgCl2 (mL)	NaOH (mL)	Final Vol (mL)	Comment
												5	5	2	5	50	
1	B1S	12/04/18	AG	50	7.2		-		-		0.5						
2	LCS	10:55									0.5						
3	LCSD										1.0						
4	LCSMS																
5	49210-01																
6	49253-01																
7	-01DP																
8	-02										1.0						
9	-02MS																
10	49261-01								-								
									+	V							
11	49292-01								+	V							
12	+ -02								-								
13	49040-06								+	V							
14	49074-02								+	U	1.0						
15	-02MS								+	U	1.0						
16	-02MSD								-								
17	-03																
18	-04																
19	-05																
20																	

Total Solids / Percent Moisture Analysis

Results

Form 1
WETCHEM

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Lab ID	: L1849060-01	**Date Collected**	: 11/29/18 14:30
Client ID	: CB-05	**Date Received**	: 11/30/18
Sample Location	: PORT OF ALBANY	**Date Analyzed**	: 12/04/18 12:58
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 121,2540G	**Analyst**	: RI
Lab File ID	: WG1185438.pdf	**Instrument ID**	: BALANCE#47
Sample Amount	:	**%Solids**	: 24
Digestion Method	:	**Date Digested**	:

		%			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	**Solids, Total**	**23.8**	**0.100**	**NA**	

Form 1
WETCHEM

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Lab ID	: L1849060-02	**Date Collected**	: 11/30/18 09:05
Client ID	: CB-02	**Date Received**	: 11/30/18
Sample Location	: PORT OF ALBANY	**Date Analyzed**	: 12/04/18 12:58
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 121,2540G	**Analyst**	: RI
Lab File ID	: WG1185438.pdf	**Instrument ID**	: BALANCE#47
Sample Amount	:	**%Solids**	: 66
Digestion Method	:	**Date Digested**	:

		%			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	**Solids, Total**	**66.3**	**0.100**	**NA**	

Form 1
WETCHEM

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Lab ID	: L1849060-03	**Date Collected**	: 11/30/18 09:25
Client ID	: CB-03	**Date Received**	: 11/30/18
Sample Location	: PORT OF ALBANY	**Date Analyzed**	: 12/04/18 12:58
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 121,2540G	**Analyst**	: RI
Lab File ID	: WG1185438.pdf	**Instrument ID**	: BALANCE#47
Sample Amount	:	**%Solids**	: 50
Digestion Method	:	**Date Digested**	:

		%			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	**Solids, Total**	**49.9**	**0.100**	**NA**	

Form 1
WETCHEM

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Lab ID	: L1849060-04	**Date Collected**	: 11/30/18 09:45
Client ID	: CB-04	**Date Received**	: 11/30/18
Sample Location	: PORT OF ALBANY	**Date Analyzed**	: 12/04/18 12:58
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 121,2540G	**Analyst**	: RI
Lab File ID	: WG1185438.pdf	**Instrument ID**	: BALANCE#47
Sample Amount	:	**%Solids**	: 86
Digestion Method	:	**Date Digested**	:

		%			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	**Solids, Total**	**86.4**	**0.100**	**NA**	

Form 1
WETCHEM

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Lab ID	: L1849060-05	**Date Collected**	: 11/30/18 10:10
Client ID	: CB-01	**Date Received**	: 11/30/18
Sample Location	: PORT OF ALBANY	**Date Analyzed**	: 12/04/18 12:58
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 121,2540G	**Analyst**	: RI
Lab File ID	: WG1185438.pdf	**Instrument ID**	: BALANCE#47
Sample Amount	:	**%Solids**	: 73
Digestion Method	:	**Date Digested**	:

		%			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	**Solids, Total**	**73.0**	**0.100**	**NA**	

Form 1
WETCHEM

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Lab ID	: L1849060-06	**Date Collected**	: 11/30/18 12:00
Client ID	: DUP-01	**Date Received**	: 11/30/18
Sample Location	: PORT OF ALBANY	**Date Analyzed**	: 12/04/18 12:58
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 121,2540G	**Analyst**	: RI
Lab File ID	: WG1185438.pdf	**Instrument ID**	: BALANCE#47
Sample Amount	:	**%Solids**	: 49
Digestion Method	:	**Date Digested**	:

		%			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	**Solids, Total**	**48.8**	**0.100**	**NA**	

Form 1
WETCHEM

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Lab ID	: WG1185438-1	**Date Collected**	: 11/30/18 09:25
Client ID	: CB-03DUP	**Date Received**	: 11/30/18
Sample Location	:	**Date Analyzed**	: 12/04/18 12:58
Sample Matrix	: SOIL	**Dilution Factor**	: 1
Analytical Method	: 121,2540G	**Analyst**	: RI
Lab File ID	: WG1185438.pdf	**Instrument ID**	: BALANCE#47
Sample Amount	:	**%Solids**	: 50
Digestion Method	:	**Date Digested**	:

		%			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Qualifier**
NONE	**Solids, Total**	**48.5**	**0.100**	**NA**	

Sample Raw Data

Wet Chemistry Gravimetric ELN

Printed: DEC-04-18 19:08:35

WorkGroup WG1185438
Title Solids, Total
Method SM2540G
Instrumen BALANCE#47

Temp In (C)	105	**Temp In (C)**		**Temp In (C)**		**Temp In (C)**	
Temp Out (C)	105	**Temp Out (C)**		**Temp Out (C)**		**Temp Out (C)**	
Time In	04-DEC-18 13:08	**Time In**		**Time In**		**Time In**	
Time Out	04-DEC-18 18:09	**Time Out**		**Time Out**		**Time Out**	

Sample #	Analysis Date	Analyst	Tare Weight (gm)	Gross Weight (gm)	Net Weight (1) (gm)	Net Weight (2) (gm)	Net Weight (3) (gm)	Net Weight (4) (gm)	Result %	Comment
L1848952-01	04-DEC-18 12:58	ROMANY IBRAHIM	1.13	8.83	7.85				87.27	
L1848952-02	04-DEC-18 12:58	ROMANY IBRAHIM	1.12	12.99	9.64				71.78	
L1848952-03	04-DEC-18 12:58	ROMANY IBRAHIM	1.19	11.8	9.99				82.94	
L1848956-01	04-DEC-18 12:58	ROMANY IBRAHIM	1.13	8.38	7.8				92.00	
L1848956-02	04-DEC-18 12:58	ROMANY IBRAHIM	1.14	12.28	11.6				93.90	
L1848956-03	04-DEC-18 12:58	ROMANY IBRAHIM	1.14	9.43	7.78				80.10	
L1848956-04	04-DEC-18 12:58	ROMANY IBRAHIM	1.13	11.85	9.75				80.41	
L1848956-05	04-DEC-18 12:58	ROMANY IBRAHIM	1.14	8.96	7.52				81.59	
L1848963-01	04-DEC-18 12:58	ROMANY IBRAHIM	1.14	11.99	9.73				79.17	
L1848963-05	04-DEC-18 12:58	ROMANY IBRAHIM	1.25	9.15	8.68				94.05	
L1848974-01	04-DEC-18 12:58	ROMANY IBRAHIM	1.15	9.13	6.71				69.67	
L1848974-02	04-DEC-18 12:58	ROMANY IBRAHIM	1.18	13.94	11.78				83.07	
L1848978-01	04-DEC-18 12:58	ROMANY IBRAHIM	1.27	8.38	8.01				94.80	
L1848978-02	04-DEC-18 12:58	ROMANY IBRAHIM	1.13	7.19	6.85				94.39	
L1849060-01	04-DEC-18 12:58	ROMANY IBRAHIM	1.13	8.99	3				23.79	
L1849060-02	04-DEC-18 12:58	ROMANY IBRAHIM	1.13	8.82	6.23				66.32	
L1849060-03	04-DEC-18 12:58	ROMANY IBRAHIM	1.14	8.77	4.95				49.93	
L1849060-04	04-DEC-18 12:58	ROMANY IBRAHIM	1.16	8.56	7.55				86.35	
L1849060-05	04-DEC-18 12:58	ROMANY IBRAHIM	1.15	8.34	6.4				73.02	
L1849060-06	04-DEC-18 12:58	ROMANY IBRAHIM	1.19	8.87	4.94				48.83	
WG1185438-1	04-DEC-18 12:58	ROMANY IBRAHIM	1.13	8.82	4.86				48.50	

Quality Control

Form 6
Lab Duplicates

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Client Sample ID	: CB-03	**Matrix**	: SOLID
Lab Sample ID	: L1849060-03	**Analysis Date**	: 12/04/18 12:58
Dup Sample ID	: WG1185438-1	**DUP Analysis Date**	: 12/04/18 12:58

Parameter	Sample Concentration (%)	Duplicate Concentration (%)	RPD	RPD Limit
Solids, Total	49.9	48.5	3	20

Attachment B

Alpha Geoscience Data Usability Summary Report

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December 17, 2018

Mr. James Mikochik
Project Scientist IV
CHA
300 South State Street, Suite 600
Syracuse, New York 13202-2024

Re: Data Validation Report
Port of Albany
November 2018 Soil Sampling Events

Dear Mr. Mikochik:

The data usability summary report (DUSR) and data validation summaries are attached to this letter for the Port of Albany project, November 2018 soil sampling event. The data for Alpha Analytical Labs, SDG number L1849060 are mostly acceptable with issues that are identified and discussed in the validation summary. There are data that are qualified as rejected, unusable (R) in data pack. The reason for rejecting the data is outlined in the DUSR and the QA/QC reviews. The data is rejected based solely on the validation guidance criteria. The rejected data may be determined to be acceptable to the user based on additional information that is not contained in the data validation criteria.

A list of common data validation acronyms is attached to this letter to assist you in interpreting the validation summaries. If you have any questions concerning the work performed, please contact me at (518) 348-6995. Thank you for the opportunity to assist CHA.

Sincerely,
Alpha Geoscience

Donald Anné

Donald Anné
Senior Chemist

DCA:dca
attachments

Z:\projects\2018\18600-18620\18615-Port of Albany\Port of Albany-182a.ltr.wpd

Data Validation Qualifiers Used in the QA/QC Reviews for USEPA Region II

U	=	Not detected. The associated number indicates the approximate sample concentration necessary to be detected significantly greater than the level of the highest associated blank.
R	=	Unreliable result; data is rejected or unusable. Analyte may or may not be present in the sample. Supporting data or information is necessary to confirm the result.
N	=	Tentative identification. Analyte is considered present. Special methods may be needed to confirm its presence or absence during future sampling efforts.
J	=	Analyte is present. Reported value may be associated with a higher level of uncertainty than is normally expected with the analytical method.
J-	=	Analyte is present. Reported value may be biased low and associated with a higher level of uncertainty than is normally expected with the analytical method.
J+	=	Analyte is present. Reported value may be biased high andassociated with a higher level of uncertainty than is normally expected with the analytical method.
UJ	=	Not detected, quantitation limit may be inaccurate or imprecise.

Note: These qualifiers are used for data validation purposes. The data validation qualifiers may differ from the qualifiers that the laboratory assigns to the data. Refer to the laboratory analytical report for the definitions of the laboratory qualifiers.

Data Validation Acronyms

AA	Atomic absorption, flame technique
BHC	Hexachlorocyclohexane
BFB	Bromofluorobenzene
CCB	Continuing calibration blank
CCC	Calibration check compound
CCV	Continuing calibration verification
CN	Cyanide
CRDL	Contract required detection limit
CRQL	Contract required quantitation limit
CVAA	Atomic adsorption, cold vapor technique
DCAA	2,4-Dichlophenylacetic acid
DCB	Decachlorobiphenyl
DFTPP	Decafluorotriphenyl phosphine
ECD	Electron capture detector
FAA	Atomic absorption, furnace technique
FID	Flame ionization detector
FNP	1-Fluoronaphthalene
GC	Gas chromatography
GC/MS	Gas chromatography/mass spectrometry
GPC	Gel permeation chromatography
ICB	Initial calibration blank
ICP	Inductively coupled plasma-atomic emission spectrometer
ICV	Initial calibration verification
IDL	Instrument detection limit
IS	Internal standard
LCS	Laboratory control sample
LCS/LCSD	Laboratory control sample/laboratory control sample duplicate
MSA	Method of standard additions
MS/MSD	Matrix spike/matrix spike duplicate
PID	Photo ionization detector
PCB	Polychlorinated biphenyl
PCDD	Polychlorinated dibenzodioxins
PCDF	Polychlorinated dibenzofurans
QA	Quality assurance
QC	Quality control
RF	Response factor
RPD	Relative percent difference
RRF	Relative response factor
RRF(number)	Relative response factor at concentration of the number following
RT	Retention time
RRT	Relative retention time
SDG	Sample delivery group
SPCC	System performance check compound
TCX	Tetrachloro-m-xylene
%D	Percent difference
%R	Percent recovery
%RSD	Percent relative standard deviation

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Data Usability Summary Report
for Alpha Analytical Labs
SDG Number: L1849060

5 Soil Samples and 1 Field Duplicate
Collected November 29 and 30, 2018

Prepared by: Donald Anné
December 17, 2018

The data package contained the documentation as required by NYSDEC ASP. The proper chain of custody procedures were followed by the samplers. All information appeared legible and complete. The data pack contained the results of volatile, semi-volatile, pesticide,1,4-dioxane, PFASs, and total cyanide analyses for 4 soil samples and 1 field duplicate, and the results of PCB analyses for 5 soil samples and 1 field duplicate.

The overall performances of the analyses are acceptable. Alpha Analytical Labs did fulfill the requirements of the analytical methods.

The data are mostly acceptable with some issues that are identified in the accompanying data validation reviews. The following data were qualified:

- The positive volatile results for toluene, acetone, and 2-butanone were qualified as "estimated, biased low" (J-) in sample CB-03 because 1 or 2 percent recoveries for these 3 compounds were below QC limits, but not below 10% in the soil MS/MSD sample CB-03.

- The "not detected" volatile results for 39 compounds were qualified as "estimated" (UJ) in sample CB-03 because 1 or 2 percent recoveries for these 39 compounds were below QC limits, but not below 10% in the soil MS/MSD sample CB-03.

- The "not detected" volatile results for 1,2,3-trichlorobenzene and 1,2,4-trichlorobenzene were qualified as "rejected, unusable" (R) in sample CB-03 because 2 of 2 percent recoveries for 1,2,3-trichlorobenzene and 1,2,4-trichlorobenzene were below QC limits and 1 or 2 were below 10% in the soil MS/MSD sample CB-03.

- The positive volatile results for toluene and 2-butanone were qualified as estimated (J) in sample DUP-18 because the relative percent differences for toluene and 2-butanone were above the allowable maximum in the soil field duplicate pair CB-03/DUP-18.

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www.alphageoscience.com

- The positive semi-volatile result for bis(2-ethylhexyl)phthalate in sample CB-02 was quantitated using data that was extrapolated beyond the highest calibration standard and flagged "E" by the laboratory. The result for bis(2-ethylhexyl)phthalate marked "E" in the undiluted sample was qualified as estimated (J).

- The positive semi-volatile results for fluoranthene, benzo(a)anthracene, benzo(b)fluoranthene, chrysene, phenanthrene, pyrene, and 3,4-methylphenol were qualified as "estimated, biased low" (J-) in sample CB-03 because 1 or 2 percent recoveries for these 7 compounds were below QC limits, but not below 10% in the soil MS/MSD sample CB-03.

- The positive semi-volatile result for bis(2-ethylhexyl)phthalate were qualified as "estimated, biased low" (J-) in sample CB-03 because 2 of 2 percent recoveries for bis(2-ethylhexyl)phthalate were below QC limits and below 10% in the soil MS/MSD sample CB-03.

- The "not detected" semi-volatile results for 8 compounds were qualified as "estimated" (UJ) in sample CB-03 because 1 or 2 percent recoveries for these 8 compounds were below QC limits, but not below 10% in the soil MS/MSD sample CB-03.

- The "not detected" semi-volatile results for 9 compounds were qualified as "rejected, unusable" (R) in sample CB-03 because 1 or 2 percent recoveries for the 9 compounds were below QC limits and 1 or 2 were below 10% in the soil MS/MSD sample CB-03.

- The positive semi-volatile results for benzo(b)fluoranthene, chrysene, phenanthrene, and pyrene were qualified as estimated (J) in sample DUP-18 because the relative percent differences for these 4 compounds were above the allowable maximum in the soil field duplicate pair CB-03/DUP-18.

- The positive PCB result for aroclor 1260 were qualified as "estimated, biased low" (J-) in samples CB-04 and DUP-18 because RPDs for aroclor 1260 were above the allowable maximum, but not above 70% in the samples and the lower results were reported.

- The positive PCB result for aroclor 1260 was qualified as estimated (J) in sample CB-03 because the relative percent difference for aroclor 1260 was above the allowable maximum in the soil field duplicate pair CB-03/DUP-18.

- The positive pesticide result for endrin was qualified as "estimated, biased high" (J+) in sample CB-01 because RPD for endrin was above the allowable maximum, but not above 70% in the samples and the hugher result was reported.

- The positive pesticide results for endrin were qualified as "estimated, biased low" (J-) in samples CB-02 and CB-04 because RPDs for endrin were above the allowable maximum, but not above 70% in the samples and the lower results were reported.

- The positive metal results for nickel were qualified as "estimated, biased high" (J+) in all 4 soil samples and the field duplicate because 1 of 2 percent recoveries for nickel was above control limits in the associated soil MS/MSD sample.

- The positive metal results for barium were qualified as "estimated, biased low" (J-) in all 4 soil samples and the field duplicate because 2 of 2 percent recoveries for barium were below control limits, but not below 10% in the associated soil MS/MSD sample.

- The positive metal results for cadmium were qualified as "estimated, biased low" (J-) in all 4 soil samples and the field duplicate because 1 of 2 percent recoveries for cadmium was below control limits, but not below 10% in the associated soil MS/MSD sample.

- The positive metal results for thallium were qualified as "estimated, biased low" (J-) in samples CB-02 and CB-01 because 1 of 2 percent recoveries for thallium was below control limits, but not below 10% in the associated soil MS/MSD sample.

- The positive metal results for calcium, chromium, and copper were qualified as estimated (J) in all 4 soil samples and the field duplicate because the relative percent differences for these 3 metals were above the allowable maximum in the soil MS/MSD sample.

- The positive metal results for the following metals were qualified as estimated (J) in sample DUP-18 because the percent solids was below 50% for the sample.

aluminum	antimony	arsenic	beryllium
cobalt	iron	lead	magnesium
manganese	potassium	selenium	silver
sodium	vanadium	zinc	

- The "not detected" metal results for thallium were qualified as "estimated" (UJ) in samples CB-03, CB-04, and DUP-18 because 1 of 2 percent recoveries for thallium was below control limits, but not below 10% in the associated soil MS/MSD sample.

- The positive results for total cyanide were qualified as "estimated, biased low" (J-) in samples CB-02, CB-03, CB-01, and DUP-18 because 1 of 2 percent recoveries for total cyanide was below QC limits, but not below 10% in the associated soil LCS/LCSD.

- The "not detected" result for total cyanide was qualified as "estimated" (UJ) in sample CB-04 because 1 of 2 percent recoveries for total cyanide was below QC limits, but not below 10% in the associated soil LCS/LCSD.

All data that are not qualified rejected, unusable (R) are considered usable with estimated (J, J+, J- or UJ) data associated with a higher level of quantitative uncertainty. Detailed information on data quality is included in the data validation reviews.

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QA/QC Review of Method 8260C Volatiles Data
for Alpha Analytical, SDG Number: L1849060

4 Soil Samples and 1 Field Duplicate
Collected November 30, 2018

Prepared by: Donald Anné
December 17, 2018

Holding Times: The samples were analyzed within USEPA SW-846 holding times.

GC/MS Tuning and Mass Calibration: The BFB tuning criteria were within control limits.

Initial Calibration: The average RRF for acetone was below the method minimums, but not below 0.010 for VOA104 on 10-29-18. The average RRF for acetone was below the method minimums, but not below 0.010 for VOA111 on 11-15-18. No action is taken on fewer than 20% of the compounds with method criteria outside control limits per calibration, provided no average RRF is less than 0.010.

The average RRFs for target compounds were above the allowable minimum (0.001 for 1,4-dioxane, 0.010 for all other compounds) and the %RSDs were below the allowable maximum (30%), as required.

Continuing Calibration: The RRF for actone was below the method minimums, but not below 0.010 on 12-06-18 (V04181206A01). The RRFs for acetone, 2-butanone, and 4-methyl-2-pentanone were below the method minimums, but not below 0.010 on 12-06-18 (V11181206N01). The %D for bromomethane was above the method maximum on 12-06-18 (V04181206A01). The %Ds for methyl acetate, 2-butanone, 4-methyl-2-pentanone, and 2-hexanone were above the method maximum on 12-06-18 (V11181206N01). No action is taken on fewer than 20% of the compounds with method criteria outside control limits per calibration, provided no RRF is less than 0.010.

The RRFs for target compounds were above the allowable minimum (0.0005 for 1,4-dioxane, 0.010 for all other compounds) and the %Ds were below the allowable maximum (25%), as required.

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The %Ds for methyl acetate, 2-butanone, and 2-hexanone were above the allowable maximum (25%) on 12-06-18 (V11181206N01). Positive results for these compounds should be considered estimated (J) in associated samples.

Blanks: Method blank WG1186672-5BLANK contained a trace of 1,2,3-trichlorobenzene (0.47 ug/kg). Positive results for 1,2,3-trichlorobenzene that are less then 5 times the blank level should be considered not detected (U) in associated samples.

Internal Standard Area Summary: The internal standard areas and retention times were within control limits.

Surrogate Recovery: The surrogate recoveries were within control limits for the soil samples.

Matrix Spike/Matrix Spike Duplicate: The relative percent differences for 5 compounds (circled red on attached Form 3) were above the allowable maximum; 1 or 2 percent recoveries (%Rs) for 42 compopunds (circled red on attached Form 3) were below QC limits, but not below 10%; and 2 of 2 %Rs for 1,2,3-trichlorobenzene and 1,2,4-trichlorobenzene were below QC limits and 1 or 2 below 10% for soil MS/MSD sample CB-03. Positive results for toluene, acetone, and 2-butanone should be considered estimated, biased low (J-); the "not detected" results for 39 compounds should be considered estimated (UJ); and the "not detected" results for 1,2,3-trichlorobenzene and 1,2,4-trichlorobenzene should be considered rejected, unusable (R) in sample CB-03.

Laboratory Control Sample: The relative percent differences (RPDs) for target compounds were below the allowable maximum and the percent recoveries (%Rs) were within QC limits for soil samples WG1186463-3 and WG1186463-4.

The RPDs for target compounds were below the allowable maximum, but 1 of 2 %Rs for 2-butanone and 2-hexanone were below QC limits, but not below 10% for soil samples WG1186672-3 and WG1186672-4. Positive results for these compounds should be considered estimated, biased low (J-) and the "not detected" estimated (UJ) in associated soil samples.

Field Duplicate: The relative percent differences for toluene and 2-butanone were above the allowable maximum (35%) for soil field duplicate pair CB-03/DUP-18 (attached table). Results for these 2 compounds should be considered estimated (J) in samples CB-03 and DUP-18.

Method 8260C Volatiles Data
Lab Number: L1849060

Compound ID: Checked surrogates and compounds were within GC/MS quantitation limits. The mass spectra for detected compounds contained the primary and secondary ions, as outlined in the method.

Volatiles

Calculations for Field Duplicate Relative Percent Difference (RPD)
SDG No. L1849060

S1= CB-03 **S2=** DUP-18

Analyte	S1	S2	RPD (%)	
toluene	4.0	6.0	40%	*
ethylbenzene	ND	0.39	NC	
acetone	100	140	33%	
2-butanone	23	35	41%	*

* RPD is above the allowable maximum 35%.

Results are in units of ug/kg.

Bold numbers were values that below the CRQL or above the high standard.
ND - Not detected.
NC - Not calculated, both results must be within the linear range for valid RPDs to be calculated.

Laboratory Control Sample
Form 3

Client : CHA Companies
Project Name : 700 SMITH BLVD
Matrix : SOIL
LCS Sample ID : WG1186672-3 Analysis Date : 12/06/18 14:37 File ID : V11181206N01
LCSD Sample ID : WG1186672-4 Analysis Date : 12/06/18 15:03 File ID : V11181206N02

Lab Number : L1849060
Project Number : 29852.1202.44000

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/kg)	Found (ug/kg)	%R	True (ug/kg)	Found (ug/kg)	%R	RPD	Recovery Limits	RPD Limit
Methylene chloride	20	19	97	20	17	86	12	70-130	30
1,1-Dichloroethane	20	19	94	20	18	90	4	70-130	30
Chloroform	20	20	101	20	19	92	9	70-130	30
Carbon tetrachloride	20	23	117	20	21	107	9	70-130	30
1,2-Dichloropropane	20	18	89	20	16	82	8	70-130	30
Dibromochloromethane	20	20	100	20	19	96	4	70-130	30
1,1,2-Trichloroethane	20	19	93	20	18	88	6	70-130	30
Tetrachloroethene	20	24	118	20	23	113	4	70-130	30
Chlorobenzene	20	21	103	20	19	96	7	70-130	30
Trichlorofluoromethane	20	23	113	20	21	104	8	70-139	30
1,2-Dichloroethane	20	18	91	20	17	85	7	70-130	30
1,1,1-Trichloroethane	20	23	112	20	20	102	9	70-130	30
Bromodichloromethane	20	19	96	20	18	92	4	70-130	30
trans-1,3-Dichloropropene	20	20	99	20	19	93	6	70-130	30
cis-1,3-Dichloropropene	20	19	97	20	17	86	12	70-130	30
Bromoform	20	21	107	20	20	101	6	70-130	30
1,1,2,2-Tetrachloroethane	20	19	94	20	18	90	4	70-130	30
Benzene	20	20	98	20	18	90	9	70-130	30
Toluene	20	22	108	20	20	98	10	70-130	30
Ethylbenzene	20	22	107	20	20	100	7	70-130	30
Chloromethane	20	18	90	20	16	78	14	52-130	30
Bromomethane	20	22	110	20	18	91	19	57-147	30
Vinyl chloride	20	22	111	20	19	95	16	67-130	30
Chloroethane	20	22	107	20	20	98	9	50-151	30
1,1-Dichloroethene	20	22	111	20	20	100	10	65-135	30
trans-1,2-Dichloroethene	20	21	107	20	19	96	11	70-130	30
Trichloroethene	20	21	103	20	19	94	9	70-130	30
1,2-Dichlorobenzene	20	21	107	20	20	102	5	70-130	30

Laboratory Control Sample
Form 3

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Matrix	: SOIL		
LCS Sample ID	: WG1186672-3 Analysis Date : 12/06/18 14:37	File ID	: V11181206N01
LCSD Sample ID	: WG1186672-4 Analysis Date : 12/06/18 15:03	File ID	: V11181206N02

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ug/kg)	Found (ug/kg)	%R	True (ug/kg)	Found (ug/kg)	%R	RPD	Recovery Limits	RPD Limit
1,3-Dichlorobenzene	20	22	110	20	21	103	7	70-130	30
1,4-Dichlorobenzene	20	22	108	20	21	104	4	70-130	30
Methyl tert butyl ether	20	18	91	20	17	85	7	66-130	30
p/m-Xylene	40	43	108	40	40	100	8	70-130	30
o-Xylene	40	42	105	40	40	100	5	70-130	30
cis-1,2-Dichloroethene	20	20	100	20	19	92	8	70-130	30
Styrene	40	41	103	40	39	96	7	70-130	30
Dichlorodifluoromethane	20	22	110	20	19	96	14	30-146	30
Acetone	20	16	80	20	15	73	9	54-140	30
Carbon disulfide	20	19	95	20	18	88	8	59-130	30
2-Butanone	20	15	73	20	14	68 Q	7	70-130	30
4-Methyl-2-pentanone	20	15	76	20	14	71	7	70-130	30
2-Hexanone	20	14	72	20	13	65 Q	10	70-130	30
Bromochloromethane	20	20	101	20	18	92	9	70-130	30
1,2-Dibromoethane	20	20	98	20	18	92	6	70-130	30
1,2-Dibromo-3-chloropropane	20	18	92	20	16	79	15	68-130	30
Isopropylbenzene	20	23	116	20	21	107	8	70-130	30
1,2,3-Trichlorobenzene	20	20	100	20	19	96	4	70-130	30
1,2,4-Trichlorobenzene	20	22	107	20	21	102	5	70-130	30
Methyl Acetate	20	15	75	20	13	66	13	51-146	30
Cyclohexane	20	18	91	20	17	83	9	59-142	30
1,4-Dioxane	1000	910	90	1000	820	82	9	65-136	30
Freon-113	20	22	111	20	20	98	12	50-139	30
Methyl cyclohexane	20	22	107	20	19	97	10	70-130	30

Matrix Spike
Form 3

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Client Sample ID	: CB-03	Matrix	: SOIL
Lab Sample ID	: L1849060-03	Analysis Date	: 12/06/18 17:13
Matrix Spike	: WG1186672-6	MS Analysis Date	: 12/07/18 01:26
Matrix Spike Dup	: WG1186672-7	MSD Analysis Date	: 12/07/18 01:52

		Matrix Spike Sample				Matrix Spike Duplicate						
Parameter	Sample Conc. (ug/kg)	Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R		Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R		RPD	Recovery Limits	RPD Limit
Methylene chloride	ND	214	160	76		200	140	68	Q	17	70-130	30
1,1-Dichloroethane	ND	214	140	64	Q	200	110	56	Q	19	70-130	30
Chloroform	ND	214	150	70		200	130	63	Q	17	70-130	30
Carbon tetrachloride	ND	214	55	26	Q	200	36	18	Q	41	Q 70-130	30
1,2-Dichloropropane	ND	214	98	45	Q	200	82	41	Q	18	70-130	30
Dibromochloromethane	ND	214	40	19	Q	200	32	16	Q	22	70-130	30
1,1,2-Trichloroethane	ND	214	110	49	Q	200	94	47	Q	11	70-130	30
Tetrachloroethene	ND	214	62	29	Q	200	49	25	Q	23	70-130	30
Chlorobenzene	ND	214	61	28	Q	200	50	25	Q	19	70-130	30
Trichlorofluoromethane	ND	214	130	59	Q	200	100	50	Q	24	70-139	30
1,2-Dichloroethane	ND	214	150	68	Q	200	120	62	Q	17	70-130	30
1,1,1-Trichloroethane	ND	214	110	52	Q	200	91	46	Q	21	70-130	30
Bromodichloromethane	ND	214	49	23	Q	200	39	19	Q	23	70-130	30
trans-1,3-Dichloropropene	ND	214	82	38	Q	200	73	37	Q	11	70-130	30
cis-1,3-Dichloropropene	ND	214	73	34	Q	200	63	32	Q	14	70-130	30
Bromoform	ND	214	46	22	Q	200	36	18	Q	24	70-130	30
1,1,2,2-Tetrachloroethane	ND	214	100	47	Q	200	88	44	Q	13	70-130	30
Benzene	ND	214	98	46	Q	200	80	40	Q	20	70-130	30
Toluene	4.0	214	86	38	Q	200	70	33	Q	21	70-130	30
Ethylbenzene	ND	214	54	25	Q	200	43	22	Q	23	70-130	30
Chloromethane	ND	214	170	79		200	130	67		23	52-130	30
Bromomethane	ND	214	160	73		200	130	65		19	57-147	30
Vinyl chloride	ND	214	170	78		200	130	67		21	67-130	30
Chloroethane	ND	214	170	81		200	140	71		20	50-151	30

Matrix Spike
Form 3

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Client Sample ID	: CB-03	Matrix	: SOIL
Lab Sample ID	: L1849060-03	Analysis Date	: 12/06/18 17:13
Matrix Spike	: WG1186672-6	MS Analysis Date	: 12/07/18 01:26
Matrix Spike Dup	: WG1186672-7	MSD Analysis Date	: 12/07/18 01:52

		Matrix Spike Sample				Matrix Spike Duplicate						
Parameter	Sample Conc. (ug/kg)	Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R		Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R		RPD	Recovery Limits	RPD Limit
1,1-Dichloroethene	ND	214	160	72		200	130	63	Q	21	65-135	30
trans-1,2-Dichloroethene	ND	214	110	51	Q	200	88	44	Q	21	70-130	30
Trichloroethene	ND	214	80	37	Q	200	62	31	Q	25	70-130	30
1,2-Dichlorobenzene	ND	214	49	23	Q	200	41	20	Q	17	70-130	30
1,3-Dichlorobenzene	ND	214	50	23	Q	200	40	20	Q	23	70-130	30
1,4-Dichlorobenzene	ND	214	49	23	Q	200	40	20	Q	20	70-130	30
Methyl tert butyl ether	ND	214	170	77		200	150	73		12	66-130	30
p/m-Xylene	ND	427	110	25	Q	399	86	22	Q	21	70-130	30
o-Xylene	ND	427	100	24	Q	399	84	21	Q	21	70-130	30
cis-1,2-Dichloroethene	ND	214	120	54	Q	200	97	48	Q	18	70-130	30
Styrene	ND	427	95	22	Q	399	80	20	Q	17	70-130	30
Dichlorodifluoromethane	ND	214	170	80		200	140	69		21	30-146	30
Acetone	100	214	290	89		200	200	52	Q	35	Q 54-140	30
Carbon disulfide	ND	214	75	35	Q	200	58	29	Q	26	59-130	30
2-Butanone	23	214	150	61	Q	200	120	49	Q	24	70-130	30
4-Methyl-2-pentanone	ND	214	140	64	Q	200	120	62	Q	10	70-130	30
2-Hexanone	ND	214	120	55	Q	200	110	54	Q	9	70-130	30
Bromochloromethane	ND	214	130	61	Q	200	110	57	Q	14	70-130	30
1,2-Dibromoethane	ND	214	90	42	Q	200	79	40	Q	13	70-130	30
1,2-Dibromo-3-chloropropane	ND	214	55	26	Q	200	40	20	Q	33	Q 68-130	30
Isopropylbenzene	ND	214	62	29	Q	200	46	23	Q	30	70-130	30
1,2,3-Trichlorobenzene	ND	214	18	8	Q	200	17	8	Q	6	70-130	30
1,2,4-Trichlorobenzene	ND	214	21	10	Q	200	19	9	Q	10	70-130	30
Methyl Acetate	ND	214	210	98		200	180	88		18	51-146	30

Matrix Spike
Form 3

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Client Sample ID	: CB-03	Matrix	: SOIL
Lab Sample ID	: L1849060-03	Analysis Date	: 12/06/18 17:13
Matrix Spike	: WG1186672-6	MS Analysis Date	: 12/07/18 01:26
Matrix Spike Dup	: WG1186672-7	MSD Analysis Date	: 12/07/18 01:52

		Matrix Spike Sample				Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/kg)	Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R		Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R		RPD	Recovery Limits	RPD Limit
Cyclohexane	ND	214	43	20	Q	200	31	16	Q	32 Q	59-142	30
1,4-Dioxane	ND	10700	9700	91		9980	7600	77		24	65-136	30
Freon-113	ND	214	77	36	Q	200	60	30	Q	25	50-139	30
Methyl cyclohexane	ND	214	33	15	Q	200	22	11	Q	41 Q	70-130	30

Form 1
VOA

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: WG1186672-5	Date Collected	: NA
Client ID	: WG1186672-5BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 12/06/18 15:55
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: JC
Lab File ID	: V11181206N04	Instrument ID	: VOA111
Sample Amount	: 5.0 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: NA
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
95-50-1	1,2-Dichlorobenzene	ND	2.0	0.14	U
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.15	U
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.17	U
1634-04-4	Methyl tert butyl ether	ND	2.0	0.20	U
179601-23-1	p/m-Xylene	ND	2.0	0.56	U
95-47-6	o-Xylene	ND	1.0	0.29	U
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.18	U
100-42-5	Styrene	ND	1.0	0.20	U
75-71-8	Dichlorodifluoromethane	ND	10	0.92	U
67-64-1	Acetone	ND	10	4.8	U
75-15-0	Carbon disulfide	ND	10	4.6	U
78-93-3	2-Butanone	ND	10	2.2	U
108-10-1	4-Methyl-2-pentanone	ND	10	1.3	U
591-78-6	2-Hexanone	ND	10	1.2	U
74-97-5	Bromochloromethane	ND	2.0	0.20	U
106-93-4	1,2-Dibromoethane	ND	1.0	0.28	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.0	1.0	U
98-82-8	Isopropylbenzene	ND	1.0	0.11	U
87-61-6	1,2,3-Trichlorobenzene	0.47	2.0	0.32	J
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.27	U
79-20-9	Methyl Acetate	ND	4.0	0.95	U
110-82-7	Cyclohexane	ND	10	0.54	U
123-91-1	1,4-Dioxane	ND	100	35.	U
76-13-1	Freon-113	ND	4.0	0.69	U
108-87-2	Methyl cyclohexane	ND	4.0	0.60	U

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA104\2018\181206A\
Data File : V04181206A21.D
Acq On : 6 Dec 2018 3:39 pm
Operator : VOA104:MKS
Sample : 11849060-02,31,4.58,5,,y
Misc : WG1186463,ICAL15180
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 06 18:14:46 2018
Quant Method : I:\VOLATILES\VOA104\2018\181206A\V104_181029N_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Tue Oct 30 09:42:37 2018
Response via : Initial Calibration

CCAL FILE(s) : 1 - I:\VOLATILES\VOA104\2018\181206A\V04181206A01.D
Sub List : 8260-CurveSoil - Megamix plus Diox

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	5.875	96	125950	20.000 ug/L	0.00
Standard Area 1 = 131170			Recovery = 96.02%		
59) Chlorobenzene-d5	9.388	117	92224	20.000 ug/L	0.00
Standard Area 1 = 100348			Recovery = 91.90%		
79) 1,4-Dichlorobenzene-d4	12.120	152	41870	20.000 ug/L	0.00
Standard Area 1 = 50893			Recovery = 82.27%		
System Monitoring Compounds					
36) Dibromofluoromethane	5.083	113	36379	22.687 ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 113.44%		
43) 1,2-Dichloroethane-d4	5.602	65	41314	22.723 ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 113.61%		
60) Toluene-d8	7.548	98	134788	22.037 ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 110.19%		
83) 4-Bromofluorobenzene	10.903	95	47895	23.720 ug/L	0.00
Spiked Amount 20.000	Range 70 - 130		Recovery = 118.60%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.000		0	N.D.	
3) Chloromethane	1.791	50	195	N.D.	
4) Vinyl chloride	0.000		0	N.D.	
5) Bromomethane	2.168	94	382	Below Cal #	4
6) Chloroethane	0.000		0	N.D. d	
7) Trichlorofluoromethane	0.000		0	N.D.	
10) 1,1-Dichloroethene	0.000		0	N.D.	
11) Carbon disulfide	2.897	76	1795	0.518 ug/L #	80
12) Freon-113	0.000		0	N.D.	
15) Methylene chloride	3.416	84	635	0.336 ug/L #	69
17) Acetone	3.490	43	852	1.528 ug/L #	56
18) trans-1,2-Dichloroethene	0.000		0	N.D.	
19) Methyl acetate	0.000		0	N.D. d	
20) Methyl tert-butyl ether	0.000		0	N.D.	
23) 1,1-Dichloroethane	0.000		0	N.D.	
28) cis-1,2-Dichloroethene	0.000		0	N.D.	
30) Bromochloromethane	0.000		0	N.D.	
31) Cyclohexane	0.000		0	N.D.	
32) Chloroform	4.910	83	114	N.D.	
34) Carbon tetrachloride	0.000		0	N.D.	

Initial Calibration Summary
Form 6

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: VOA104	**Ical Ref**	: ICAL15180
Calibration dates	: 10/29/18 22:59 10/30/18 02:37		

Calibration Files

L1 =V04181029N04.D L2 =V04181029N06.D L3 =V04181029N07.D L4 =V04181029N08.D L6 =V04181029N09.D

L7 =V04181029N10.D L8 =V04181029N11.D L0 =V04181029N03.D L1.5=V04181029N05.D

		Compound	L1	L2	L3	L4	L6	L7	L8	L0	L1.5	Avg	%RSD
1)	I	Fluorobenzene	----------ISTD----------										
2)	TP	Dichlorodifluoromethane	0.237	0.240	0.250	0.251	0.226	0.223	0.215		0.198	0.230	7.91
3)	TP	Chloromethane	0.536	0.499	0.489	0.465	0.425	0.418	0.432		0.491	0.469	8.91
4)	TC	Vinyl chloride	0.364	0.346	0.364	0.359	0.326	0.325	0.321		0.328	0.342	5.53
5)	TP	Bromomethane	0.231	0.183	0.166	0.151	0.138	0.133	0.135		0.195	*L	0.9981
6)	TP	Chloroethane	0.169	0.158	0.154	0.150	0.126				0.166	0.154	9.94
7)	TP	Trichlorofluoromethane	0.277	0.269	0.280	0.283	0.250	0.230	0.213		0.226	0.254	10.93
8)	TP	Ethyl ether	0.088	0.089	0.098	0.097	0.093	0.090	0.087		0.098	0.092	4.98
10)	TC	1,1-Dichloroethene	0.150	0.166	0.170	0.174	0.160	0.157	0.160		0.154	0.162	5.06
11)	TP	Carbon disulfide	0.681	0.560	0.552	0.532	0.498	0.466	0.581		0.537	0.551	11.57
12)	TP	Freon-113	0.180	0.191	0.193	0.190	0.174	0.158	0.190		0.132	0.176	12.20
13)	TP	Iodomethane		0.038	0.110	0.176	0.239	0.260	0.250			*L	0.9921
14)	TP	Acrolein		0.044	0.053	0.054	0.051	0.052	0.049			0.050	7.06
15)	TP	Methylene chloride		0.318	0.304	0.298	0.276	0.272	0.262		0.369	0.300	12.17
17)	TP	Acetone		0.108	0.090	0.091	0.079	0.072	0.078		0.101	0.089#	14.60
18)	TP	trans-1,2-Dichloroethene	0.258	0.258	0.284	0.281	0.262	0.260	0.249		0.245	0.262	5.40
19)	TP	Methyl acetate	0.258	0.250	0.259	0.256	0.240	0.234	0.232		0.254	0.248	4.40
20)	TP	Methyl tert-butyl ether	0.665	0.678	0.738	0.736	0.692	0.678	0.657		0.676	0.690	4.45
21)	TP	tert-Butyl alcohol	0.038	0.046	0.046	0.044	0.041	0.041	0.039		0.040	0.042#	7.42
22)	TP	Diisopropyl ether	1.212	1.251	1.338	1.320	1.228	1.186	1.140		1.213	1.236	5.34
23)	TP	1,1-Dichloroethane	0.645	0.655	0.703	0.688	0.645	0.635	0.608		0.647	0.653	4.57
24)	TP	Halothane	0.176	0.198	0.216	0.215	0.198	0.198	0.188		0.188	0.197	6.84
25)	TP	Acrylonitrile		0.109	0.135	0.134	0.127	0.127	0.121		0.089	0.120	13.49
26)	TP	Ethyl tert-butyl ether	1.087	1.172	1.257	1.247	1.165	1.141	1.097		1.173	1.167	5.27
27)	TP	Vinyl acetate	0.477	0.612	0.708	0.668	0.651	0.683	0.588		0.553	0.617	12.38
28)	TP	cis-1,2-Dichloroethene	0.272	0.288	0.319	0.313	0.293	0.291	0.278		0.283	0.292	5.61
29)	TP	2,2-Dichloropropane	0.368	0.373	0.388	0.381	0.353	0.356	0.341		0.365	0.365	4.22
30)	TP	Bromochloromethane	0.146	0.138	0.154	0.148	0.136	0.133	0.127		0.136	0.140	6.18
31)	TP	Cyclohexane	0.673	0.669	0.692	0.694	0.621	0.595	0.564		0.566	0.634	8.61
32)	TC	Chloroform	0.493	0.474	0.501	0.494	0.464	0.458	0.435		0.478	0.475	4.62
33)	TP	Ethyl acetate	0.229	0.298	0.351	0.350	0.325	0.321	0.305		0.272	0.306	13.34
34)	TP	Carbon tetrachloride	0.287	0.331	0.351	0.359	0.335	0.332	0.317		0.295	0.326	7.71
35)	TP	Tetrahydrofuran		0.108	0.110	0.110	0.097	0.095	0.092		0.081	0.099	10.94
36)	S	Dibromofluoromethane	0.252	0.249	0.254	0.260	0.261	0.259	0.261	0.248	0.249	0.255	2.17
37)	TP	1,1,1-Trichloroethane	0.380	0.390	0.414	0.412	0.379	0.377	0.360	0.375	0.364	0.383	4.93
39)	TP	2-Butanone		0.175	0.176	0.158	0.146	0.141	0.139		0.121	0.151	13.31
40)	TP	1,1-Dichloropropene	0.315	0.329	0.355	0.350	0.322	0.318	0.304	0.296	0.309	0.322	6.21
41)	TP	Benzene	1.049	1.053	1.106	1.089	1.014	1.001	0.955	1.081	1.038	1.043	4.55

Initial Calibration Summary
Form 6

Client	**: CHA Companies**	**Lab Number**	**: L1849060**
Project Name	**: 700 SMITH BLVD**	**Project Number**	**: 29852.1202.44000**
Instrument ID	**: VOA104**	**Ical Ref**	**: ICAL15180**
Calibration dates	**: 10/29/18 22:59 10/30/18 02:37**		

Calibration Files

L1 =V04181029N04.D L2 =V04181029N06.D L3 =V04181029N07.D L4 =V04181029N08.D L6 =V04181029N09.D

L7 =V04181029N10.D L8 =V04181029N11.D L0 =V04181029N03.D L1.5=V04181029N05.D

		Compound	L1	L2	L3	L4	L6	L7	L8	L0	L1.5	Avg	%RSD
42)	TP	tert-Amyl methyl ether	0.680	0.706	0.770	0.762	0.718	0.701	0.678		0.693	0.713	4.90
43)	S	1,2-Dichloroethane-d4	0.287	0.286	0.286	0.287	0.287	0.295	0.294	0.289	0.287	0.289	1.21
44)	TP	1,2-Dichloroethane	0.413	0.416	0.445	0.439	0.412	0.402	0.389		0.398	0.414	4.67
47)	TP	Methyl cyclohexane	0.418	0.425	0.431	0.434	0.396	0.376	0.355		0.334	0.396	9.52
48)	TP	Trichloroethene	0.281	0.280	0.303	0.301	0.280	0.273	0.266	0.238	0.273	0.277	6.88
50)	TP	Dibromomethane	0.131	0.155	0.178	0.176	0.166	0.167	0.162		0.144	0.160	9.96
51)	TC	1,2-Dichloropropane	0.390	0.390	0.421	0.417	0.392	0.387	0.374		0.375	0.393	4.41
53)	TP	2-Chloroethyl vinyl ether		0.161	0.212	0.221	0.212	0.215	0.206			0.204	10.64
54)	TP	Bromodichloromethane	0.330	0.349	0.391	0.388	0.371	0.370	0.362	0.282	0.342	0.354	9.54
57)	TP	1,4-Dioxane		0.002	0.003	0.003	0.003	0.003	0.003		0.001	*L	0.9984
58)	TP	cis-1,3-Dichloropropene	0.351	0.391	0.458	0.461	0.435	0.440	0.426	0.295	0.378	0.404	13.69
59)	I	Chlorobenzene-d5	----------ISTD----------										
60)	S	Toluene-d8	1.332	1.331	1.324	1.319	1.323	1.311	1.320	1.340	1.338	1.326	0.72
61)	TC	Toluene	0.884	0.909	0.958	0.931	0.874	0.859	0.819		0.906	0.892	4.85
62)	TP	4-Methyl-2-pentanone		0.178	0.227	0.225	0.211	0.208	0.199		0.143	0.199	14.94
63)	TP	Tetrachloroethene	0.358	0.395	0.413	0.407	0.374	0.367	0.345	0.297	0.361	0.369	9.63
65)	TP	trans-1,3-Dichloropropene	0.336	0.445	0.539	0.538	0.524	0.520	0.509		0.395	*L	0.9995
67)	TP	Ethyl methacrylate		0.383	0.471	0.463	0.441	0.436	0.421			0.436	7.28
68)	TP	1,1,2-Trichloroethane	0.226	0.279	0.304	0.294	0.277	0.272	0.261		0.267	0.273	8.56
69)	TP	Chlorodibromomethane	0.329	0.379	0.431	0.432	0.415	0.414	0.403		0.364	0.396	9.08
70)	TP	1,3-Dichloropropane	0.445	0.508	0.572	0.562	0.531	0.521	0.506		0.499	0.518	7.65
71)	TP	1,2-Dibromoethane		0.306	0.361	0.364	0.343	0.342	0.334		0.277	0.332	9.40
72)	TP	2-Hexanone		0.254	0.332	0.340	0.320	0.316	0.311			0.312	9.71
73)	TP	Chlorobenzene	1.054	1.043	1.108	1.075	1.010	0.989	0.939	0.999	1.048	1.029	4.92
74)	TC	Ethylbenzene	1.701	1.750	1.851	1.794	1.671	1.637	1.544		1.681	1.704	5.60
75)	TP	1,1,1,2-Tetrachloroethane	0.357	0.383	0.408	0.403	0.383	0.375	0.359	0.293	0.355	0.368	9.28
76)	TP	p/m Xylene	0.603	0.671	0.714	0.688	0.639	0.613	0.570		0.630	0.641	7.42
77)	TP	o Xylene	0.630	0.654	0.698	0.669	0.625	0.597	0.559	0.601	0.647	0.631	6.61
78)	TP	Styrene	0.992	1.054	1.157	1.127	1.053	1.005	0.945	0.922	1.024	1.031	7.47
79)	I	1,4-Dichlorobenzene-d4	----------ISTD----------										
80)	TP	Bromoform	0.345	0.466	0.535	0.552	0.531	0.530	0.521		0.426	0.488	14.63
82)	TP	Isopropylbenzene	3.379	3.491	3.549	3.517	3.241	3.177	3.000		3.338	3.337	5.68
83)	S	4-Bromofluorobenzene	0.962	0.951	0.960	0.963	0.971	0.972	0.982	0.957	0.963	0.965	0.94
84)	TP	Bromobenzene	0.777	0.869	0.938	0.933	0.878	0.863	0.836		0.831	0.866	6.15
85)	TP	n-Propylbenzene	3.849	4.080	4.213	4.184	3.866	3.762	3.534		3.976	3.933	5.80
86)	TP	1,4-Dichlorobutane	1.551	1.675	1.790	1.794	1.662	1.623	1.554		1.633	1.660	5.58
87)	TP	1,1,2,2-Tetrachloroethane	0.811	0.842	0.932	0.923	0.856	0.858	0.812	0.642	0.886	0.840	10.20
88)	TP	4-Ethyltoluene	3.194	3.320	3.459	3.466	3.163	3.089	2.908		3.144	3.218	5.90

Initial Calibration Summary
Form 6

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: VOA104	**Ical Ref**	: ICAL15180
Calibration dates	: 10/29/18 22:59 10/30/18 02:37		

Calibration Files

L1 =V04181029N04.D L2 =V04181029N06.D L3 =V04181029N07.D L4 =V04181029N08.D L6 =V04181029N09.D

L7 =V04181029N10.D L8 =V04181029N11.D L0 =V04181029N03.D L1.5=V04181029N05.D

	Compound	L1	L2	L3	L4	L6	L7	L8	L0	L1.5	Avg	%RSD
89) TP	2-Chlorotoluene	2.546	2.436	2.521	2.510	2.342	2.311	2.218		2.379	2.408	4.81
90) TP	1,3,5-Trimethylbenzene	3.020	2.988	3.023	3.019	2.740	2.667	2.507		2.911	2.859	6.90
91) TP	1,2,3-Trichloropropane	0.599	0.660	0.690	0.678	0.631	0.622	0.599		0.643	0.640	5.34
92) TP	trans-1,4-Dichloro-2-b...		0.222	0.313	0.328	0.293	0.297	0.286			0.290	12.54
93) TP	4-Chlorotoluene	2.372	2.407	2.641	2.536	2.374	2.345	2.237		2.408	2.415	5.10
94) TP	tert-Butylbenzene	2.392	2.464	2.497	2.494	2.273	2.206	2.072		2.330	2.341	6.47
97) TP	1,2,4-Trimethylbenzene	2.798	2.896	3.024	3.007	2.785	2.720	2.567		2.832	2.829	5.31
98) TP	sec-Butylbenzene	3.770	3.899	3.852	3.803	3.464	3.308	3.095		3.712	3.613	8.06
99) TP	p-Isopropyltoluene	3.063	3.123	3.206	3.210	2.924	2.820	2.626		3.029	3.000	6.72
100) TP	1,3-Dichlorobenzene	1.526	1.642	1.736	1.722	1.606	1.568	1.489		1.528	1.602	5.73
101) TP	1,4-Dichlorobenzene	1.768	1.770	1.750	1.765	1.649	1.600	1.519		1.725	1.693	5.56
102) TP	p-Diethylbenzene	1.717	1.812	1.874	1.892	1.733	1.663	1.559		1.681	1.741	6.49
103) TP	n-Butylbenzene	2.852	2.955	3.023	2.973	2.723	2.599	2.423		2.780	2.791	7.35
104) TP	1,2-Dichlorobenzene	1.405	1.564	1.663	1.663	1.542	1.508	1.453		1.502	1.537	5.98
105) TP	1,2,4,5-Tetramethylben...	2.672	2.832	3.027	3.041	2.810	2.735	2.595		2.749	2.808	5.64
106) TP	1,2-Dibromo-3-chloropr...		0.106	0.147	0.152	0.143	0.145	0.145		0.089	*L	0.9996
107) TP	1,3,5-Trichlorobenzene	1.005	1.140	1.200	1.200	1.096	1.076	1.019		1.085	1.103	6.66
108) TP	Hexachlorobutadiene	0.493	0.537	0.530	0.527	0.485	0.466	0.439		0.533	0.501	7.25
109) TP	1,2,4-Trichlorobenzene	0.921	1.060	1.150	1.144	1.063	1.034	0.982		0.974	1.041	7.76
110) TP	Naphthalene	2.243	2.623	2.880	2.898	2.699	2.671	2.585		2.397	2.625	8.48
111) TP	1,2,3-Trichlorobenzene	0.894	1.005	1.090	1.085	0.996	0.974	0.939		0.994	0.997	6.67

Initial Calibration Summary
Form 6

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: VOA111	**Ical Ref**	: ICAL15260
Calibration dates	: 11/15/18 21:43 11/16/18 01:11		

Calibration Files

L1 =V11181115N04.D L2 =V11181115N06.D L3 =V11181115N07.D L4 =V11181115N08.D L1.5=V11181115N05.D

L6 =V11181115N09.D L7 =V11181115N10.D L8 =V11181115N11.D L0 =V11181115N03.D

		Compound	L1	L2	L3	L4	L1.5	L6	L7	L8	L0	Avg	%RSD
1)	I	Fluorobenzene	ISTD										
2)	T	Dichlorodifluoromethane		0.205	0.191	0.187	0.175	0.183	0.173	0.170		0.184	6.67
3)	T	Chloromethane	0.266	0.275	0.251	0.258	0.263	0.249	0.238	0.237		0.255	5.27
4)	C	Vinyl chloride	0.135	0.206	0.186	0.191	0.166	0.187	0.182	0.180		0.179	11.83
5)	T	Bromomethane		0.211	0.179	0.160	0.204	0.139	0.138	0.141		*Q	0.9977
6)	T	Chloroethane	0.086	0.133	0.125	0.130	0.117	0.128	0.127	0.125		0.121	12.50
7)	T	Trichlorofluoromethane	0.290	0.445	0.393	0.387	0.351	0.373	0.347	0.335		0.365	12.59
8)	T	Ethyl ether	0.111	0.116	0.123	0.127	0.114	0.127	0.126	0.123		0.121	5.18
10)	T	1,1-Dichloroethene	0.174	0.192	0.188	0.189	0.164	0.184	0.179	0.181		0.181	5.07
11)	T	Carbon disulfide		0.630	0.541	0.536	0.691	0.520	0.506	0.511		0.562	12.51
12)	T	Freon-113		0.216	0.200	0.198	0.182	0.194	0.187	0.186		0.195	5.98
13)	T	Iodomethane		0.021	0.080	0.158		0.208	0.215	0.223		*L	0.9917
14)	T	Acrolein			0.029	0.031		0.034	0.034	0.033		0.032	5.90
15)	T	Methylene chloride	0.289	0.257	0.233	0.245	0.250	0.240	0.235	0.237		0.248	7.30
17)	T	Acetone	0.067	0.070	0.072	0.078	0.069	0.074	0.073	0.067		0.071	5.27
18)	T	trans-1,2-Dichloroethene	0.203	0.253	0.228	0.236	0.232	0.231	0.225	0.228		0.230	6.06
19)	T	Methyl acetate	0.186	0.189	0.200	0.211	0.182	0.212	0.209	0.195		0.198	5.95
20)	T	Methyl tert-butyl ether	0.712	0.758	0.737	0.775	0.725	0.760	0.757	0.724		0.743	2.97
21)	T	tert-Butyl alcohol	0.028	0.032	0.032	0.035	0.030	0.036	0.035	0.032		0.032	8.76
22)	T	Diisopropyl ether	1.158	1.203	1.134	1.174	1.164	1.151	1.109	1.077		1.146	3.41
23)	C	1,1-Dichloroethane	0.514	0.525	0.493	0.523	0.496	0.510	0.496	0.492		0.506	2.66
24)	T	Halothane	0.143	0.196	0.183	0.186	0.189	0.184	0.182	0.181		0.180	8.70
25)	T	Acrylonitrile		0.070	0.089	0.101		0.100	0.101	0.094		0.092	12.91
26)	T	Ethyl tert-butyl ether	1.027	1.052	1.013	1.070	1.018	1.061	1.046	1.003		1.036	2.36
27)	T	Vinyl acetate	0.524	0.631	0.640	0.687	0.593	0.695	0.670	0.632		0.634	8.77
28)	T	cis-1,2-Dichloroethene	0.284	0.276	0.272	0.286	0.266	0.276	0.274	0.272		0.276	2.28
29)	T	2,2-Dichloropropane	0.434	0.478	0.433	0.445	0.441	0.428	0.409	0.399		0.433	5.52
30)	T	Bromochloromethane	0.126	0.134	0.138	0.144	0.132	0.138	0.135	0.131		0.135	3.98
31)	T	Cyclohexane	0.387	0.505	0.467	0.467	0.458	0.463	0.450	0.438		0.455	7.34
32)	C	Chloroform	0.538	0.533	0.504	0.517	0.506	0.503	0.486	0.473		0.508	4.26
33)	T	Ethyl acetate	0.204	0.282	0.287	0.307	0.250	0.309	0.307	0.278		0.278	12.89
34)	T	Carbon tetrachloride	0.258	0.409	0.417	0.423	0.339	0.415	0.397	0.381		0.380	14.83
35)	T	Tetrahydrofuran	0.081	0.082	0.101	0.103	0.072	0.104	0.101	0.092		0.092	13.10
36)	S	Dibromofluoromethane	0.266	0.265	0.272	0.267	0.270	0.265	0.272	0.263	0.266	0.267	1.26
37)	T	1,1,1-Trichloroethane	0.474	0.484	0.470	0.475	0.466	0.464	0.440	0.423	0.377	0.452	7.54
39)	T	2-Butanone		0.111	0.127	0.125	0.103	0.126	0.126	0.114		0.119	7.99
40)	T	1,1-Dichloropropene	0.291	0.331	0.312	0.318	0.299	0.313	0.306	0.302	0.258	0.303	6.76
41)	T	Benzene	0.970	0.985	0.942	0.964	0.928	0.951	0.936	0.934	0.962	0.952	2.00

Initial Calibration Summary
Form 6

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: VOA111	**Ical Ref**	: ICAL15260
Calibration dates	: 11/15/18 21:43 11/16/18 01:11		

Calibration Files

L1 =V11181115N04.D L2 =V11181115N06.D L3 =V11181115N07.D L4 =V11181115N08.D L1.5=V11181115N05.D

L6 =V11181115N09.D L7 =V11181115N10.D L8 =V11181115N11.D L0 =V11181115N03.D

		Compound	L1	L2	L3	L4	L1.5	L6	L7	L8	L0	Avg	%RSD
42)	T	tert-Amyl methyl ether	0.775	0.787	0.758	0.811	0.743	0.814	0.802	0.774		0.783	3.25
43)	S	1,2-Dichloroethane-d4	0.330	0.328	0.335	0.332	0.332	0.334	0.332	0.315	0.329	0.330	1.84
44)	T	1,2-Dichloroethane	0.453	0.487	0.461	0.486	0.469	0.473	0.448	0.419		0.462	4.80
47)	T	Methyl cyclohexane	0.306	0.397	0.384	0.379	0.327	0.379	0.361	0.368		0.363	8.53
48)	T	Trichloroethene	0.288	0.269	0.265	0.272	0.276	0.266	0.255	0.255	0.243	0.265	4.96
50)	T	Dibromomethane	0.132	0.152	0.158	0.164	0.140	0.168	0.162	0.159		0.154	8.13
51)	C	1,2-Dichloropropane	0.247	0.286	0.288	0.298	0.268	0.293	0.282	0.289		0.281	5.90
53)	T	2-Chloroethyl vinyl ether		0.099	0.122	0.127		0.118	0.101	0.087		0.109	14.52
54)	T	Bromodichloromethane	0.391	0.424	0.417	0.431	0.381	0.429	0.411	0.408	0.372	0.407	5.21
57)	T	1,4-Dioxane	0.001	0.002	0.003	0.003	0.002	0.003	0.003	0.003		*L	0.9990
58)	T	cis-1,3-Dichloropropene	0.430	0.426	0.444	0.458	0.418	0.462	0.452	0.453	0.363	0.434	7.05
59)	I	Chlorobenzene-d5	----------ISTD----------										
60)	S	Toluene-d8	1.217	1.199	1.196	1.198	1.188	1.188	1.188	1.185	1.202	1.196	0.83
61)	C	Toluene	0.755	0.804	0.736	0.774	0.783	0.768	0.723	0.742		0.761	3.50
62)	T	4-Methyl-2-pentanone		0.101	0.117	0.128		0.134	0.132	0.126		0.123	9.98
63)	T	Tetrachloroethene	0.313	0.350	0.327	0.327	0.326	0.327	0.307	0.311	0.255	0.316	8.31
65)	T	trans-1,3-Dichloropropene	0.402	0.494	0.494	0.531	0.441	0.533	0.510	0.509		0.489	9.31
67)	T	Ethyl methacrylate		0.312	0.340	0.376		0.391	0.384	0.378		0.364	8.43
68)	T	1,1,2-Trichloroethane	0.204	0.213	0.207	0.223	0.188	0.225	0.217	0.218		0.212	5.61
69)	T	Chlorodibromomethane	0.328	0.365	0.365	0.390	0.334	0.397	0.378	0.376		0.367	6.72
70)	T	1,3-Dichloropropane	0.434	0.458	0.434	0.470	0.423	0.472	0.457	0.453		0.450	3.99
71)	T	1,2-Dibromoethane	0.213	0.271	0.270	0.284	0.250	0.290	0.279	0.275		0.266	9.20
72)	T	2-Hexanone	0.014	0.143	0.218	0.237	0.111	0.251	0.243	0.228		*L	0.9981
73)	T	Chlorobenzene	1.015	0.946	0.886	0.919	0.918	0.922	0.869	0.895	0.957	0.925	4.71
74)	C	Ethylbenzene	1.494	1.577	1.477	1.536	1.438	1.539	1.446	1.470		1.497	3.30
75)	T	1,1,1,2-Tetrachloroethane	0.338	0.377	0.361	0.386	0.358	0.392	0.365	0.366	0.312	0.362	6.82
76)	T	p/m Xylene	0.577	0.615	0.587	0.610	0.586	0.613	0.570	0.579		0.592	2.99
77)	T	o Xylene	0.595	0.603	0.584	0.605	0.579	0.612	0.568	0.576	0.609	0.592	2.65
78)	T	Styrene	0.923	1.009	0.990	1.061	0.939	1.065	0.998	1.007	0.865	0.984	6.59
79)	I	1,4-Dichlorobenzene-d4	----------ISTD----------										
80)	T	Bromoform	0.322	0.393	0.399	0.427	0.350	0.441	0.429	0.437		0.400	10.87
82)	T	Isopropylbenzene	2.829	3.010	2.747	2.764	2.780	2.803	2.660	2.760		2.794	3.59
83)	S	4-Bromofluorobenzene	0.949	0.933	0.920	0.894	0.937	0.913	0.924	0.942	0.943	0.928	1.88
84)	T	Bromobenzene	0.707	0.765	0.718	0.737	0.760	0.742	0.711	0.739		0.735	2.93
85)	T	n-Propylbenzene	3.306	3.407	3.203	3.231	3.240	3.250	3.087	3.222		3.243	2.79
86)	T	1,4-Dichlorobutane	1.134	1.162	1.133	1.173	1.086	1.191	1.137	1.125		1.142	2.84
87)	T	1,1,2,2-Tetrachloroethane	0.578	0.616	0.584	0.618	0.595	0.640	0.626	0.635	0.506	0.600	6.88
88)	T	4-Ethyltoluene	2.850	3.060	2.826	2.878	2.817	2.896	2.758	2.876		2.870	3.07

Initial Calibration Summary
Form 6

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: VOA111	**Ical Ref**	: ICAL15260
Calibration dates	: 11/15/18 21:43 11/16/18 01:11		

Calibration Files

L1 =V11181115N04.D L2 =V11181115N06.D L3 =V11181115N07.D L4 =V11181115N08.D L1.5=V11181115N05.D

L6 =V11181115N09.D L7 =V11181115N10.D L8 =V11181115N11.D L0 =V11181115N03.D

		Compound	L1	L2	L3	L4	L1.5	L6	L7	L8	L0	Avg	%RSD
89)	T	2-Chlorotoluene	2.481	2.524	2.313	2.367	2.435	2.391	2.265	2.351		2.391	3.60
90)	T	1,3,5-Trimethylbenzene	2.680	2.610	2.451	2.485	2.518	2.495	2.351	2.443		2.504	4.07
91)	T	1,2,3-Trichloropropane	0.479	0.516	0.511	0.532	0.519	0.529	0.514	0.510		0.514	3.17
92)	T	trans-1,4-Dichloro-2-b...		0.191	0.222	0.246		0.257	0.246	0.236		0.233	10.25
93)	T	4-Chlorotoluene	2.266	2.231	2.138	2.147	2.149	2.150	2.044	2.115		2.155	3.16
94)	T	tert-Butylbenzene	2.093	2.231	2.091	2.109	2.125	2.118	2.002	2.056		2.103	3.10
97)	T	1,2,4-Trimethylbenzene	2.536	2.601	2.467	2.571	2.463	2.581	2.437	2.522		2.522	2.41
98)	T	sec-Butylbenzene	3.018	3.251	3.050	3.025	2.981	3.054	2.881	2.950		3.026	3.55
99)	T	p-Isopropyltoluene	2.650	2.820	2.723	2.789	2.641	2.775	2.609	2.668		2.710	2.89
100)	T	1,3-Dichlorobenzene	1.566	1.515	1.419	1.471	1.411	1.474	1.381	1.426		1.458	4.18
101)	T	1,4-Dichlorobenzene	1.599	1.580	1.482	1.500	1.463	1.507	1.419	1.469		1.503	4.02
102)	T	p-Diethylbenzene	1.660	1.719	1.650	1.722	1.659	1.720	1.617	1.657		1.675	2.37
103)	T	n-Butylbenzene	2.230	2.592	2.455	2.498	2.426	2.489	2.347	2.406		2.430	4.47
104)	T	1,2-Dichlorobenzene	1.281	1.427	1.362	1.424	1.316	1.427	1.354	1.383		1.372	3.96
105)	T	1,2,4,5-Tetramethylben...	2.686	2.853	2.783	2.887	2.733	2.954	2.789	2.864		2.818	3.10
106)	T	1,2-Dibromo-3-chloropr...	0.026	0.080	0.102	0.116	0.045	0.117	0.118	0.115		*L	0.9995
107)	T	1,3,5-Trichlorobenzene	1.057	1.120	1.054	1.096	1.054	1.100	1.022	1.055		1.070	3.03
108)	T	Hexachlorobutadiene	0.395	0.505	0.471	0.465	0.440	0.463	0.434	0.444		0.452	7.12
109)	T	1,2,4-Trichlorobenzene	0.872	0.943	0.930	0.985	0.870	1.013	0.948	0.973		0.942	5.40
110)	T	Naphthalene	2.105	2.145	2.139	2.329	2.120	2.435	2.368	2.356		2.250	5.98
111)	T	1,2,3-Trichlorobenzene	0.892	0.908	0.856	0.916	0.855	0.930	0.881	0.900		0.892	3.02

Continuing Calibration
Form 7

Client	: CHA Companies	Lab Number	: L1849060		
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000		
Instrument ID	: VOA104	Calibration Date	: 12/06/18 06:44		
Lab File ID	: V04181206A01	Init. Calib. Date(s)	: 10/29/18	10/30/18	
Sample No	: WG1186463-2	Init. Calib. Times	: 22:59	02:37	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	96	0
Dichlorodifluoromethane	0.23	0.221	-	3.9	20	84	0
Chloromethane	0.469	0.379	-	19.2	20	74	0
Vinyl chloride	0.342	0.328	-	4.1	20	86	0
Bromomethane	20	24.385	-	-21.9*	20	99	0
Chloroethane	0.154	0.153	-	0.6	20	95	0
Trichlorofluoromethane	0.254	0.281	-	-10.6	20	96	0
Ethyl ether	0.092	0.101	-	-9.8	20	98	0
1,1-Dichloroethene	0.162	0.176	-	-8.6	20	99	0
Carbon disulfide	0.551	0.505	-	8.3	20	88	0
Freon-113	0.176	0.186	-	-5.7	20	92	0
Acrolein	0.05	0.044*	-	12	20	78	0
Methylene chloride	0.3	0.275	-	8.3	20	87	0
Acetone	0.089	0.081*	-	9	20	85	0
trans-1,2-Dichloroethene	0.262	0.268	-	-2.3	20	90	0
Methyl acetate	0.248	0.235	-	5.2	20	87	0
Methyl tert-butyl ether	0.69	0.669	-	3	20	87	0
tert-Butyl alcohol	0.042	0.046*	-	-9.5	20	95	-.01
Diisopropyl ether	1.236	1.267	-	-2.5	20	91	0
1,1-Dichloroethane	0.653	0.655	-	-0.3	20	89	0
Halothane	0.197	0.215	-	-9.1	20	95	0
Acrylonitrile	0.12	0.121	-	-0.8	20	86	0
Ethyl tert-butyl ether	1.167	1.202	-	-3	20	91	0
Vinyl acetate	0.617	0.622	-	-0.8	20	84	0
cis-1,2-Dichloroethene	0.292	0.303	-	-3.8	20	91	0
2,2-Dichloropropane	0.365	0.386	-	-5.8	20	95	0
Bromochloromethane	0.14	0.142	-	-1.4	20	88	0
Cyclohexane	0.634	0.67	-	-5.7	20	93	0
Chloroform	0.475	0.48	-	-1.1	20	92	0
Ethyl acetate	0.306	0.331	-	-8.2	20	90	0
Carbon tetrachloride	0.326	0.333	-	-2.1	20	91	0
Tetrahydrofuran	0.099	0.103	-	-4	20	90	0
Dibromofluoromethane	0.255	0.285	-	-11.8	20	108	0
1,1,1-Trichloroethane	0.383	0.395	-	-3.1	20	91	0
2-Butanone	0.151	0.143	-	5.3	20	78	0
1,1-Dichloropropene	0.322	0.34	-	-5.6	20	92	0
Benzene	1.043	1.05	-	-0.7	20	91	0
tert-Amyl methyl ether	0.713	0.745	-	-4.5	20	93	0
1,2-Dichloroethane-d4	0.289	0.306	-	-5.9	20	102	0
1,2-Dichloroethane	0.414	0.406	-	1.9	20	87	0
Methyl cyclohexane	0.396	0.436	-	-10.1	20	97	0
Trichloroethene	0.277	0.286	-	-3.2	20	90	0
Dibromomethane	0.16	0.161	-	-0.6	20	87	0
1,2-Dichloropropane	0.393	0.391	-	0.5	20	89	0
2-Chloroethyl vinyl ether	0.204	0.197	-	3.4	20	89	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: CHA Companies		Lab Number	: L1849060	
Project Name	: 700 SMITH BLVD		Project Number	: 29852.1202.44000	
Instrument ID	: VOA104		Calibration Date	: 12/06/18 06:44	
Lab File ID	: V04181206A01		Init. Calib. Date(s)	: 10/29/18	10/30/18
Sample No	: WG1186463-2		Init. Calib. Times	: 22:59	02:37
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Bromodichloromethane	0.354	0.36	-	-1.7	20	88	0
1,4-Dioxane	1000	863.426	-	13.7	20	76	0
cis-1,3-Dichloropropene	0.404	0.434	-	-7.4	20	91	0
Chlorobenzene-d5	1	1	-	0	20	101	0
Toluene-d8	1.326	1.435	-	-8.2	20	110	0
Toluene	0.892	0.884	-	0.9	20	93	0
4-Methyl-2-pentanone	0.199	0.202	-	-1.5	20	90	0
Tetrachloroethene	0.369	0.385	-	-4.3	20	94	0
trans-1,3-Dichloropropene	20	19.02	-	4.9	20	91	0
Ethyl methacrylate	0.436	0.42	-	3.7	20	90	0
1,1,2-Trichloroethane	0.273	0.269	-	1.5	20	89	0
Chlorodibromomethane	0.396	0.384	-	3	20	90	0
1,3-Dichloropropane	0.518	0.508	-	1.9	20	90	0
1,2-Dibromoethane	0.332	0.317	-	4.5	20	89	0
2-Hexanone	0.312	0.31	-	0.6	20	94	0
Chlorobenzene	1.029	1.016	-	1.3	20	93	0
Ethylbenzene	1.704	1.716	-	-0.7	20	94	0
1,1,1,2-Tetrachloroethane	0.368	0.372	-	-1.1	20	92	0
p/m Xylene	0.641	0.664	-	-3.6	20	94	0
o Xylene	0.631	0.647	-	-2.5	20	94	0
Styrene	1.031	1.071	-	-3.9	20	94	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	101	0
Bromoform	0.488	0.477	-	2.3	20	90	0
Isopropylbenzene	3.337	3.357	-	-0.6	20	96	0
4-Bromofluorobenzene	0.965	1.057	-	-9.5	20	112	0
Bromobenzene	0.866	0.863	-	0.3	20	93	0
n-Propylbenzene	3.933	3.959	-	-0.7	20	95	0
1,4-Dichlorobutane	1.66	1.611	-	3	20	91	0
1,1,2,2-Tetrachloroethane	0.84	0.878	-	-4.5	20	96	0
4-Ethyltoluene	3.218	3.401	-	-5.7	20	100	0
2-Chlorotoluene	2.408	2.354	-	2.2	20	95	0
1,3,5-Trimethylbenzene	2.859	2.883	-	-0.8	20	97	0
1,2,3-Trichloropropane	0.64	0.63	-	1.6	20	92	0
trans-1,4-Dichloro-2-buten	0.29	0.289	-	0.3	20	93	0
4-Chlorotoluene	2.415	2.418	-	-0.1	20	93	0
tert-Butylbenzene	2.341	2.357	-	-0.7	20	96	0
1,2,4-Trimethylbenzene	2.829	2.852	-	-0.8	20	96	0
sec-Butylbenzene	3.613	3.659	-	-1.3	20	96	0
p-Isopropyltoluene	3	3.073	-	-2.4	20	97	0
1,3-Dichlorobenzene	1.602	1.623	-	-1.3	20	95	0
1,4-Dichlorobenzene	1.693	1.706	-	-0.8	20	99	0
p-Diethylbenzene	1.741	1.884	-	-8.2	20	102	0
n-Butylbenzene	2.791	2.851	-	-2.1	20	96	0
1,2-Dichlorobenzene	1.537	1.554	-	-1.1	20	95	0
1,2,4,5-Tetramethylbenzene	2.808	3.044	-	-8.4	20	102	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: CHA Companies	Lab Number	: L1849060	
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000	
Instrument ID	: VOA104	Calibration Date	: 12/06/18 06:44	
Lab File ID	: V04181206A01	Init. Calib. Date(s)	: 10/29/18	10/30/18
Sample No	: WG1186463-2	Init. Calib. Times	: 22:59	02:37
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dibromo-3-chloropropan	20	18.764	-	6.2	20	91	0
1,3,5-Trichlorobenzene	1.103	1.221	-	-10.7	20	103	0
Hexachlorobutadiene	0.501	0.524	-	-4.6	20	100	0
1,2,4-Trichlorobenzene	1.041	1.098	-	-5.5	20	97	0
Naphthalene	2.625	2.586	-	1.5	20	91	0
1,2,3-Trichlorobenzene	0.997	0.998	-	-0.1	20	93	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: CHA Companies	Lab Number	: L1849060		
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000		
Instrument ID	: VOA111	Calibration Date	: 12/06/18 14:37		
Lab File ID	: V11181206N01	Init. Calib. Date(s)	: 11/15/18	11/16/18	
Sample No	: WG1186672-2	Init. Calib. Times	: 21:43	01:11	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Fluorobenzene	1	1	-	0	20	93	0
Dichlorodifluoromethane	0.184	0.202	-	-9.8	20	98	0
Chloromethane	0.255	0.23	-	9.8	20	85	-.01
Vinyl chloride	0.179	0.199	-	-11.2	20	99	0
Bromomethane	20	22.084	-	-10.4	20	89	0
Chloroethane	0.121	0.13	-	-7.4	20	97	0
Trichlorofluoromethane	0.365	0.413	-	-13.2	20	98	0
Ethyl ether	0.121	0.111	-	8.3	20	84	0
1,1-Dichloroethene	0.181	0.201	-	-11	20	99	0
Carbon disulfide	0.562	0.535	-	4.8	20	92	0
Freon-113	0.195	0.217	-	-11.3	20	101	0
Acrolein	0.032	0.024*	-	25*	20	75	0
Methylene chloride	0.248	0.241	-	2.8	20	96	-.01
Acetone	0.071	0.057*	-	19.7	20	74	0
trans-1,2-Dichloroethene	0.23	0.246	-	-7	20	100	0
Methyl acetate	0.198	0.148	-	25.3*	20	69	0
Methyl tert-butyl ether	0.743	0.68	-	8.5	20	86	-.01
tert-Butyl alcohol	0.032	0.027*	-	15.6	20	79	-.02
Diisopropyl ether	1.146	0.91	-	20.6* NA	20	75	0
1,1-Dichloroethane	0.506	0.476	-	5.9	20	90	-.01
Halothane	0.18	0.192	-	-6.7	20	98	-.01
Acrylonitrile	0.092	0.062	-	32.6* NA	20	65	-.01
Ethyl tert-butyl ether	1.036	0.909	-	12.3	20	83	-.01
Vinyl acetate	0.634	0.494	-	22.1* NA	20	72	-.01
cis-1,2-Dichloroethene	0.276	0.276	-	0	20	94	-.01
2,2-Dichloropropane	0.433	0.471	-	-8.8	20	101	0
Bromochloromethane	0.135	0.136	-	-0.7	20	91	-.01
Cyclohexane	0.455	0.414	-	9	20	82	-.01
Chloroform	0.508	0.513	-	-1	20	95	-.01
Ethyl acetate	0.278	0.208	-	25.2* NA	20	67	-.01
Carbon tetrachloride	0.38	0.445	-	-17.1	20	99	0
Tetrahydrofuran	0.092	0.065	-	29.3* NA	20	60	0
Dibromofluoromethane	0.267	0.27	-	-1.1	20	92	0
1,1,1-Trichloroethane	0.452	0.508	-	-12.4	20	100	0
2-Butanone	0.119	0.087*	-	26.9*	20	64	-.01
1,1-Dichloropropene	0.303	0.325	-	-7.3	20	97	0
Benzene	0.952	0.933	-	2	20	92	-.01
tert-Amyl methyl ether	0.783	0.694	-	11.4	20	85	0
1,2-Dichloroethane-d4	0.33	0.321	-	2.7	20	89	-.01
1,2-Dichloroethane	0.462	0.42	-	9.1	20	85	-.01
Methyl cyclohexane	0.363	0.389	-	-7.2	20	94	-.01
Trichloroethene	0.265	0.275	-	-3.8	20	96	-.01
Dibromomethane	0.154	0.145	-	5.8	20	85	-.01
1,2-Dichloropropane	0.281	0.252	-	10.3	20	81	0
2-Chloroethyl vinyl ether	0.109	0.073	-	33* NA	20	55	-.01

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: CHA Companies		Lab Number	: L1849060	
Project Name	: 700 SMITH BLVD		Project Number	: 29852.1202.44000	
Instrument ID	: VOA111		Calibration Date	: 12/06/18 14:37	
Lab File ID	: V11181206N01		Init. Calib. Date(s)	: 11/15/18	11/16/18
Sample No	: WG1186672-2		Init. Calib. Times	: 21:43	01:11
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
Bromodichloromethane	0.407	0.39	-	4.2	20	87	-.01
1,4-Dioxane	1000	905.042	-	9.5	20	86	0
cis-1,3-Dichloropropene	0.434	0.419	-	3.5	20	88	-.01
Chlorobenzene-d5	1	1	-	0	20	86	-.01
Toluene-d8	1.196	1.243	-	-3.9	20	89	0
Toluene	0.761	0.822	-	-8	20	96	-.01
4-Methyl-2-pentanone	0.123	0.094	-	23.6*	20	69	-.01
Tetrachloroethene	0.316	0.372	-	-17.7	20	98	-.01
trans-1,3-Dichloropropene	0.489	0.485	-	0.8	20	84	0
Ethyl methacrylate	0.364	0.303	-	16.8	20	77	-.01
1,1,2-Trichloroethane	0.212	0.198	-	6.6	20	82	-.01
Chlorodibromomethane	0.367	0.366	-	0.3	20	86	0
1,3-Dichloropropane	0.45	0.427	-	5.1	20	85	-.01
1,2-Dibromoethane	0.266	0.262	-	1.5	20	83	-.01
2-Hexanone	20	14.449	-	27.8*	20	63	0
Chlorobenzene	0.925	0.956	-	-3.4	20	93	-.01
Ethylbenzene	1.497	1.609	-	-7.5	20	94	-.01
1,1,1,2-Tetrachloroethane	0.362	0.398	-	-9.9	20	95	-.01
p/m Xylene	0.592	0.641	-	-8.3	20	94	-.01
o Xylene	0.592	0.62	-	-4.7	20	91	0
Styrene	0.984	1.016	-	-3.3	20	88	0
1,4-Dichlorobenzene-d4	1	1	-	0	20	80	0
Bromoform	0.4	0.428	-	-7	20	86	-.01
Isopropylbenzene	2.794	3.231	-	-15.6	20	94	-.01
4-Bromofluorobenzene	0.928	0.934	-	-0.6	20	81	0
Bromobenzene	0.735	0.804	-	-9.4	20	89	0
n-Propylbenzene	3.243	3.617	-	-11.5	20	90	0
1,4-Dichlorobutane	1.142	1.009	-	11.6	20	71	0
1,1,2,2-Tetrachloroethane	0.6	0.565	-	5.8	20	77	-.01
4-Ethyltoluene	2.87	3.299	-	-14.9	20	93	0
2-Chlorotoluene	2.391	2.664	-	-11.4	20	92	0
1,3,5-Trimethylbenzene	2.504	2.838	-	-13.3	20	93	0
1,2,3-Trichloropropane	0.514	0.475	-	7.6	20	74	0
trans-1,4-Dichloro-2-buten	0.233	0.202	-	13.3	20	73	0
4-Chlorotoluene	2.155	2.354	-	-9.2	20	88	0
tert-Butylbenzene	2.103	2.429	-	-15.5	20	93	0
1,2,4-Trimethylbenzene	2.522	2.852	-	-13.1	20	92	0
sec-Butylbenzene	3.026	3.471	-	-14.7	20	91	0
p-Isopropyltoluene	2.71	3.145	-	-16.1	20	92	0
1,3-Dichlorobenzene	1.458	1.606	-	-10.2	20	90	0
1,4-Dichlorobenzene	1.503	1.625	-	-8.1	20	88	0
p-Diethylbenzene	1.675	1.908	-	-13.9	20	92	0
n-Butylbenzene	2.43	2.759	-	-13.5	20	90	0
1,2-Dichlorobenzene	1.372	1.466	-	-6.9	20	86	0
1,2,4,5-Tetramethylbenzene	2.818	3.049	-	-8.2	20	88	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: CHA Companies	Lab Number	: L1849060	
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000	
Instrument ID	: VOA111	Calibration Date	: 12/06/18 14:37	
Lab File ID	: V11181206N01	Init. Calib. Date(s)	: 11/15/18	11/16/18
Sample No	: WG1186672-2	Init. Calib. Times	: 21:43	01:11
Channel	:			

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dibromo-3-chloropropan	20	18.294	-	8.5	20	80	0
1,3,5-Trichlorobenzene	1.07	1.201	-	-12.2	20	91	0
Hexachlorobutadiene	0.452	0.524	-	-15.9	20	89	0
1,2,4-Trichlorobenzene	0.942	1.011	-	-7.3	20	87	0
Naphthalene	2.25	2.098	-	6.8	20	78	0
1,2,3-Trichlorobenzene	0.892	0.891	-	0.1	20	83	0

* Value outside of QC limits.

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QA/QC Review of Method 8270D Semi-Volatiles
Data for Alpha Analytical, SDG Number: L1849060

4 Soil Samples and 1 Field Duplicate
Collected November 30, 2018

Prepared by: Donald Anné
December 17, 2018

Holding Times: The samples were extracted and analyzed within USEPA SW-846 holding times.

GC/MS Tuning and Mass Calibration: The DFTPP tuning criteria were within control limits.

Initial Calibration: The average RRFs for 2,4,6-trichlorophenol, 2,4,5-trichlorophenol, 2-chloronaphthalene, and 2,6-dinitrotoluene were below the method minimum, but not below 0.010 for SV103 on 12-05-18. The average RRFs for 2,4,6-trichlorophenol, 2-chloronaphthalene, and 2,6-dinitrotoluene were below the method minimum, but not below 0.010 for SV112 on 12-05-18. No action is taken on fewer than 20% of the compounds with method criteria outside control limits per calibration, provided no average RRF is less than 0.010.

The average RRFs for target compounds were above the allowable minimum (0.010) and the %RSDs were below the allowable maximum (30%), as required.

Continuing Calibration: The RRFs for 2,4,6-trichlorophenol, 2-chloronaphthalene, and 2,6-dinitrotoluene were below the method minimums, but not below 0.010 on 12-06-18 (WG1186484-3). The RRFs for 2,4,6-trichlorophenol, 2-chloronaphthalene and 2,6-dinitrotoluene were below the method minimums, but not below 0.010 on 12-07-18 (WG1186894-3). The RRFs for 2,4,6-trichlorophenol, 2,4,5-trichlorophenol, 2-chloronaphthalene, and 2,6-dinitrotoluene were below the method minimums, but not below 0.010 on 12-09-18 (WG1187317-3). The %Ds for bis(2-chloroisopropyl)ether, 2-nitroaniline, 2,-dinitrotoluene, 4-nitroaniline, bis(2-ethylhexyl)phthalate, and di-n-octylphthalate were above the method maximum on 12-07-18 (WG1186894-3). The %Ds for bis(2-chloroisopropyl)ether and 4-nitroaniline were above the method maximum on 12-09-18 (WG1187317-3). No action is taken on fewer than 20% of the compounds with method criteria outside control limits per calibration, provided no RRF is less than 0.010.

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The RRFs for target compounds were above the allowable minimum (0.010), as required.

The %D for di-n-octylphthalate was above the allowable maximum (25%) on 12-075-18 (WG1186894-3). The %D for bis(2-chloroisopropyl)ether was above the allowable maximum (25%) on 12-07-18 (WG1187317-3). Positive results for these compounds should be considered estimated (J) in associated samples.

Blanks: The analyses of the method blanks reported target compounds as not detected.

Internal Standard Area Summary: The internal standard areas and retention times were within control limits.

Surrogate Recovery: One of three acid extractable surrogate recoveries for samples CB-03 and DUP-18 was below control limits, but not below 10%. No action is taken on one surrogate recovery per fraction outside control limits, provided no recovery is less than 10%.

Matrix Spike/Matrix Spike Duplicate: The relative percent differences for 6 compounds (circled red on attached Form 3) were above the allowable maximum; 1 or 2 percent recoveries (%Rs) for 15 compopunds (circled red on attached Form 3) were below QC limits, but not below 10%; and 1 o 2 %Rs for 10 compounds (circled red on attached Form 3) were below QC limits and 1 or 2 below 10% for soil MS/MSD sample CB-03. Positive results for fluoranthene, bis(2-ethylhexyl)phthalate, benzo(a)anthracene, benzo(b)fluoranthene, chrysene, phenanthrene, pyrene, and 3,4-methylphenol should be considered estimated, biased low (J-); the not detected results for 8 compounds should be considered estimated (UJ); and the "not detected" results for 9 compounds should be considered rejected, unusable (R) in sample CB-03.

Laboratory Control Sample: The relative percent differences for target compounds were below the allowable maximum and the percent recoveries were within QC limits for soil samples WG1184852-2 and WG1184852-3.

Field Duplicate: The relative percent difference for 4 compounds were above the allowable maximum (35%) for soil field duplicate pair CB-03/DUP-18 (attached table). Results for these 4 compounds should be considered estimated (J) in samples CB-03 and DUP-18.

Compound ID: Checked compounds and surrogates were within GC/MS quantitation limits. The mass spectra for detected compounds contained the primary and secondary ions, as outlined in the method.

The result for bis(2-ethylhexyl)phthalate in sample CB-02 was quantitated by extrapolating data above the highest calibration standard and marked 'E' by the laboratory. The sample was diluted by the laboratory and re-analyzed; therefore, the result that is flagged as 'E' in the undiluted sample should be considered estimated (J). The use of the diluted result for bis(2-ethylhexyl)phthalate is recommended for sample CS-02. It is recommended that the undiluted results be used for all other compounds.

Semi-Volatiles

Calculations for Field Duplicate Relative Percent Difference (RPD)
SDG No. L1849060

S1= CB-03 **S2=** DUP-18

Analyte	S1	S2	RPD (%)	
Fluoranthene	3000	2100	35%	
Naphthalene	**340**	**1000**	NC	
Bis(2-ethylhexyl)phthalate	33000	28000	16%	
Butyl benzyl phthalate	ND	1300	NC	
Di-n-butyl phthalate	ND	2300	NC	
Benzo(a)anthracene	1200	**680**	NC	
Benzo(a)pyrene	**1000**	**670**	NC	
Benzo(b)fluoranthene	2400	1600	40%	*
Benzo(k)fluoranthene	**730**	**670**	NC	
Chrysene	1900	1300	38%	*
Anthracene	**420**	ND	NC	
Benzo(ghi)perylene	**1000**	**680**	38%	
Fluorene	**190**	ND	NC	
Phenanthrene	1800	1100	48%	*
Dibenzo(a,h)anthracene	**260**	ND	NC	
Indeno(1,2,3-cd)pyrene	**1100**	**730**	NC	
Pyrene	2500	1700	38%	*
2-Methylnaphthalene	**260**	**300**	NC	
Phenol	**380**	**700**	NC	
3-Methylphenol/4-Methylphenol	6900	6900	0%	
Carbazole	**310**	**200**	NC	
Benzaldehyde	ND	**640**	NC	

* RPD is above the allowable maximum 35%

Results are in units of ug/kg.

Bold numbers were values that below the CRQL.
ND - Not detected.
NC - Not calculated, both results must be above the CRDL for valid RPDs to be calculated.

Matrix Spike
Form 3

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Client Sample ID	: CB-03	Matrix	: SOIL
Lab Sample ID	: L1849060-03	Analysis Date	: 12/09/18 23:02
Matrix Spike	: WG1184852-4	MS Analysis Date	: 12/09/18 22:11
Matrix Spike Dup	: WG1184852-5	MSD Analysis Date	: 12/09/18 22:37

		Matrix Spike Sample				Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/kg)	Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R		Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R		RPD	Recovery Limits	RPD Limit
Acenaphthene	ND	2590	1500	58		2640	2000	76		29	31-137	50
Hexachlorobenzene	ND	2590	1400	54		2640	2000	76		35	40-140	50
Bis(2-chloroethyl)ether	ND	2590	1300J	50		2640	1800	68		32	40-140	50
2-Chloronaphthalene	ND	2590	1400J	54		2640	1900	72		30	40-140	50
3,3'-Dichlorobenzidine	ND	2590	ND	0	Q	2640	ND	0	Q	NC	40-140	50
2,4-Dinitrotoluene	ND	2590	410J	16	Q	2640	930J	35	Q	78	Q 40-132	50
2,6-Dinitrotoluene	ND	2590	440J	17	Q	2640	1000J	38	Q	78	Q 40-140	50
Fluoranthene	3000	2590	3400	15	Q	2640	4200	46		21	40-140	50
4-Chlorophenyl phenyl ether	ND	2590	1400J	54		2640	2000	76		35	40-140	50
4-Bromophenyl phenyl ether	ND	2590	1500J	58		2640	2000	76		29	40-140	50
Bis(2-chloroisopropyl)ether	ND	2590	1000J	39	Q	2640	1400J	53		33	40-140	50
Bis(2-chloroethoxy)methane	ND	2590	1300J	50		2640	1800	68		32	40-117	50
Hexachlorobutadiene	ND	2590	1400J	54		2640	1900	72		30	40-140	50
Hexachlorocyclopentadiene	ND	2590	ND	0	Q	2640	ND	0	Q	NC	40-140	50
Hexachloroethane	ND	2590	670J	26	Q	2640	1100J	42		49	40-140	50
Isophorone	ND	2590	1300J	50		2640	1800	68		32	40-140	50
Naphthalene	340J	2590	1600	62		2640	2100	80		27	40-140	50
Nitrobenzene	ND	2590	560J	22	Q	2640	1200J	46		73	Q 40-140	50
NDPA/DPA	ND	2590	1400	54		2640	2000	76		35	36-157	50
n-Nitrosodi-n-propylamine	ND	2590	1300J	50		2640	1700	64		27	32-121	50
Bis(2-ethylhexyl)phthalate	33000	2590	33000	0	Q	2640	29000	0	Q	13	40-140	50
Butyl benzyl phthalate	ND	2590	2200	85		2640	2900	110		27	40-140	50
Di-n-butylphthalate	ND	2590	1900	73		2640	2400	91		23	40-140	50
Di-n-octylphthalate	ND	2590	2500	31	Q	2640	3000	49		18	40-140	50

Matrix Spike
Form 3

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Client Sample ID	: CB-03	Matrix	: SOIL
Lab Sample ID	: L1849060-03	Analysis Date	: 12/09/18 23:02
Matrix Spike	: WG1184852-4	MS Analysis Date	: 12/09/18 22:11
Matrix Spike Dup	: WG1184852-5	MSD Analysis Date	: 12/09/18 22:37

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/kg)	Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R	Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R	RPD	Recovery Limits	RPD Limit
Diethyl phthalate	ND	2590	1400J	54	2640	2000	76	35	40-140	50
Dimethyl phthalate	ND	2590	1900	73	2640	2400	91	23	40-140	50
Benzo(a)anthracene	1200	2590	2100	(35) Q	2640	2800	61	29	40-140	50
Benzo(a)pyrene	1000J	2590	2000	77	2640	2800	110	33	40-140	50
Benzo(b)fluoranthene	2400	2590	3000	(23) Q	2640	3700	49	21	40-140	50
Benzo(k)fluoranthene	730J	2590	1900	73	2640	2500	95	27	40-140	50
Chrysene	1900	2590	2600	(27) Q	2640	3300	53	24	40-140	50
Acenaphthylene	ND	2590	1400	54	2640	2000	76	35	40-140	50
Anthracene	420J	2590	1600	62	2640	2200	83	32	40-140	50
Benzo(ghi)perylene	1000J	2590	2000	77	2640	2600	99	26	40-140	50
Fluorene	190J	2590	1500J	58	2640	2000	76	29	40-140	50
Phenanthrene	1800	2590	2300	(19) Q	2640	3000	46	26	40-140	50
Dibenzo(a,h)anthracene	260J	2590	1500	58	2640	2000	76	29	40-140	50
Indeno(1,2,3-cd)pyrene	1100J	2590	2000	77	2640	2700	100	30	40-140	50
Pyrene	2500	2590	3000	(19) Q	2640	3700	46	21	35-142	50
Biphenyl	ND	2590	1500J	58	2640	2000J	76	29	54-104	50
4-Chloroaniline	ND	2590	380J	(15) Q	2640	700J	(27) Q	(59) Q	40-140	50
2-Nitroaniline	ND	2590	790J	(30) Q	2640	1800	68	(78) Q	47-134	50
3-Nitroaniline	ND	2590	ND	(0) Q	2640	860J	33	NC	26-129	50
4-Nitroaniline	ND	2590	ND	(0) Q	2640	1600	61	NC	41-125	50
Dibenzofuran	ND	2590	1500J	58	2640	2000	76	29	40-140	50
2-Methylnaphthalene	260J	2590	1600J	62	2640	2000	76	22	40-140	50
1,2,4,5-Tetrachlorobenzene	ND	2590	1600	62	2640	2100	80	27	40-117	50
Acetophenone	ND	2590	1700	66	2640	2200	83	26	14-144	50

Matrix Spike
Form 3

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Client Sample ID	: CB-03	Matrix	: SOIL
Lab Sample ID	: L1849060-03	Analysis Date	: 12/09/18 23:02
Matrix Spike	: WG1184852-4	MS Analysis Date	: 12/09/18 22:11
Matrix Spike Dup	: WG1184852-5	MSD Analysis Date	: 12/09/18 22:37

		Matrix Spike Sample				Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/kg)	Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R		Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R	RPD	Recovery Limits	RPD Limit
2,4,6-Trichlorophenol	ND	2590	1300	50		2640	2000	76	42	30-130	50
p-Chloro-m-cresol	ND	2590	1300J	50		2640	1900	72	38	26-103	50
2-Chlorophenol	ND	2590	1300J	50		2640	1900	72	38	25-102	50
2,4-Dichlorophenol	ND	2590	1300J	50		2640	2000	76	42	30-130	50
2,4-Dimethylphenol	ND	2590	1300J	50		2640	2000	76	42	30-130	50
2-Nitrophenol	ND	2590	ND	0	Q	2640	630J	24	Q NC	30-130	50
4-Nitrophenol	ND	2590	ND	0	Q	2640	740J	28	NC	11-114	50
2,4-Dinitrophenol	ND	2590	ND	0	Q	2640	ND	0	Q NC	4-130	50
4,6-Dinitro-o-cresol	ND	2590	ND	0	Q	2640	ND	0	Q NC	10-130	50
Pentachlorophenol	ND	2590	930J	36		2640	1600	61	53 Q	17-109	50
Phenol	380J	2590	1800	69		2640	1800	68	0	26-90	50
2-Methylphenol	ND	2590	1400J	54		2640	1900	72	30	30-130.	50
3-Methylphenol/4-Methylphenol	6900	2590	7200	12	Q	2640	7400	19	Q 3	30-130	50
2,4,5-Trichlorophenol	ND	2590	1300J	50		2640	1800	68	32	30-130	50
Carbazole	310J	2590	1500J	58		2640	2200	83	38	54-128	50
Atrazine	ND	2590	1400	0	Q	2640	2100	0	Q 40	40-140	50
Benzaldehyde	ND	2590	2200	85		2640	2500	95	13	40-140	50
Caprolactam	ND	2590	1500J	58		2640	1600	61	6	15-130	50
2,3,4,6-Tetrachlorophenol	ND	2590	1200J	46		2640	1800	68	40	40-140	50

Form 2
Surrogate Recovery
SEMIVOLATILES

Client: CHA Companies
Project Name: 700 SMITH BLVD

Lab Number: L1849060
Project Number: 29852.1202.44000
Matrix: Soil

CLIENT ID (LAB SAMPLE NO.)	S1 (2FP)	S2 (PHL)	S3 (NBZ)	S4 (FBP)	S5 (TBP)	S6 (TPH)	TOT OUT
CB-02 (L1849060-02)	52	53	46	56	72	44	0
CB-03 (L1849060-03D)	48	48	17*	59	61	52	1
CB-04 (L1849060-04)	78	79	59	83	101	63	0
CB-01 (L1849060-05)	57	57	51	66	77	51	0
DUP-18 (L1849060-06D)	49	49	20*	56	52	46	1
WG1184852-1BLANK	76	76	71	76	74	75	0
WG1184852-2LCS	77	77	71	73	73	69	0
WG1184852-3LCSD	73	73	69	72	69	65	0
CB-03MS	49	49	19*	55	54	48	1
CB-03MSD	68	67	44	74	77	64	0

QC LIMITS

(25-120) 2FP = 2-FLUOROPHENOL
(10-120) PHL = PHENOL-D6
(23-120) NBZ = NITROBENZENE-D5
(30-120) FBP = 2-FLUOROBIPHENYL
(10-136) TBP = 2,4,6-TRIBROMOPHENOL
(18-120) TPH = 4-TERPHENYL-D14

* Values outside of QC limits

Initial Calibration Summary
Form 6

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: SV103	**Ical Ref**	: ICAL15305
Calibration dates	: 12/05/18 00:09 12/06/18 00:14		

Calibration Files
1.0 =ADPL1r.d 2.0 =ADPL2r.d 3.0 =ADPL3r.d 5.0 =ADPL4r.d 10 =ADPL5r.d 20 =ADPL6r.d 50 =ADPL7
100 =ADPL8r.d 150 =ADPL9r.d 200 =ADPL10r.d

		Compound	1.0	2.0	3.0	5.0	10	20	50	100	150	200	Avg	%RSD
1)	I	IS1_1,4-Dichlorobenzene-d4	----------ISTD----------											
2)	t	N-Nitrosodimethylamine	1.046	0.969	0.923	0.895	0.887	0.840	0.801	0.820	0.785	0.890	0.886	9.06
3)	t	Pyridine	1.503	1.355	1.251	1.402	1.322	1.430	1.347	1.388	1.349	1.500	1.385	5.63
4)	S	2-Fluorophenol	1.342	1.325	1.353	1.370	1.315	1.327	1.297	1.322	1.277	1.351	1.328	2.09
5)	T	Aniline	2.250	2.269	2.228	2.145	2.160	2.079	2.054	2.086	2.019	2.172	2.146	4.00
6)	t	2-Chlorophenol	1.512	1.355	1.497	1.493	1.463	1.470	1.458	1.475	1.447	1.516	1.469	3.13
7)	S	Phenol-d6	1.694	1.652	1.737	1.697	1.680	1.649	1.623	1.645	1.593	1.718	1.669	2.67
8)	T	Phenol	2.153	1.967	2.001	1.998	1.958	1.926	1.881	1.917	1.834	1.996	1.963	4.39
9)	T	bis(2-Chloroethyl)ether	1.604	1.458	1.501	1.438	1.388	1.333	1.312	1.311	1.268	1.372	1.398	7.35
10)	T	1,3-Dichlorobenzene	1.575	1.580	1.540	1.584	1.543	1.551	1.522	1.543	1.481	1.547	1.546	1.96
11)	T	1,4-Dichlorobenzene	1.715	1.637	1.597	1.603	1.567	1.560	1.551	1.592	1.528	1.597	1.595	3.29
12)	T	1,2-Dichlorobenzene	1.578	1.547	1.565	1.493	1.518	1.478	1.481	1.515	1.457	1.535	1.517	2.62
13)	t	Benzyl alcohol	1.199	1.129	1.153	1.111	1.139	1.134	1.139	1.183	1.167	1.273	1.163	4.04
14)	T	bis(2-chloroisopropyl)ether	3.571	3.337	3.265	2.982	2.828	2.615	2.481	2.461	2.374	2.749	2.866	14.35
15)	T	2-Methylphenol	1.348	1.308	1.325	1.276	1.314	1.291	1.281	1.312	1.270	1.371	1.310	2.47
16)	T	Hexachloroethane	0.668	0.593	0.607	0.619	0.610	0.581	0.586	0.605	0.590	0.639	0.610	4.36
17)	T	n-Nitrosodi-n-propylamine	1.094	1.042	1.012	1.040	1.037	1.020	1.009	1.029	1.005	1.098	1.038	3.18
18)	T	3-Methylphenol/4-Methylphenol	1.374	1.332	1.352	1.359	1.380	1.350	1.348	1.377	1.336	1.451	1.366	2.50
19)	S	Nitrobenzene-d5	1.606	1.535	1.560	1.489	1.524	1.473	1.514	1.563	1.513	1.661	1.544	3.64
20)	T	Nitrobenzene	1.598	1.574	1.578	1.581	1.548	1.513	1.514	1.559	1.500	1.650	1.561	2.92
21)	T	Isophorone	2.656	2.479	2.682	2.541	2.641	2.619	2.623	2.721	2.632	2.913	2.651	4.32
22)	T	2-Nitrophenol	0.688	0.647	0.719	0.700	0.761	0.764	0.799	0.822	0.818	0.855	0.757	8.91
23)	T	2,4-Dimethylphenol	1.239	1.271	1.329	1.310	1.308	1.299	1.309	1.362	1.334	1.450	1.321	4.29
24)	T	bis(2-Chloroethoxy)methane	1.716	1.679	1.769	1.702	1.753	1.666	1.656	1.669	1.620	1.765	1.699	2.97
25)	T	2,4-Dichlorophenol	1.005	0.984	1.045	1.063	1.093	1.075	1.105	1.158	1.113	1.191	1.083	5.87
26)	T	1,2,4-Trichlorobenzene	1.210	1.136	1.156	1.163	1.192	1.167	1.192	1.235	1.195	1.249	1.189	2.96
27)	I	IS2_1,4-Dichlorobenzene-d4	----------ISTD----------											
28)	T	Benzaldehyde			1.172	1.184	1.125	1.137	1.161	1.173	1.181	1.196	1.166	2.07
29)	T	Acetophenone	1.682	1.864	1.839	1.856	1.837	1.858	1.941	1.954	2.003	2.052	1.889	5.50
30)	T	m-Toluidine	1.717	1.990	1.930	2.006	1.974	1.998	2.091	2.073	2.106	2.177	2.006	6.25
31)	T	2-Chloroaniline	1.556	1.812	1.774	1.774	1.737	1.740	1.854	1.854	1.895	1.987	1.798	6.38
32)	I	IS3_1,4-Dichlorobenzene-d4	----------ISTD----------											
33)	T	n-Decane	0.996	0.993	0.921	0.923	0.941	0.979	0.986	1.003	1.016	1.001	0.976	3.56
34)	I	IS1_Naphthalene-d8	----------ISTD----------											
35)	T	Naphthalene	1.018	0.962	0.997	0.985	0.995	0.969	0.966	0.974	0.980	0.983	0.983	1.72
36)	T	Benzoic Acid					0.194	0.221	0.251	0.271	0.276	0.278	0.249	13.81
37)	T	4-Chloroaniline	0.129	0.125	0.133	0.127	0.124	0.117	0.120	0.120	0.119	0.123	0.124	3.93
38)	T	Hexachlorobutadiene	0.125	0.109	0.128	0.120	0.127	0.126	0.126	0.133	0.133	0.128	0.125	5.53

Initial Calibration Summary
Form 6

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: SV103	**Ical Ref**	: ICAL15305
Calibration dates	: 12/05/18 00:09 12/06/18 00:14		

Calibration Files
1.0 =ADPL1r.d 2.0 =ADPL2r.d 3.0 =ADPL3r.d 5.0 =ADPL4r.d 10 =ADPL5r.d 20 =ADPL6r.d 50 =ADPL7
100 =ADPL8r.d 150 =ADPL9r.d 200 =ADPL10r.d

		Compound	1.0	2.0	3.0	5.0	10	20	50	100	150	200	Avg	%RSD
39)	T	p-Chloro-m-cresol	0.269	0.243	0.269	0.259	0.266	0.271	0.273	0.284	0.279	0.281	0.269	4.38
40)	T	2-Methylnaphthalene	0.667	0.612	0.646	0.631	0.646	0.658	0.649	0.664	0.656	0.663	0.649	2.63
41)	T	1-Methylnaphthalene	0.206	0.200	0.207	0.205	0.206	0.204	0.205	0.210	0.206	0.210	0.206	1.34
42)	T	Hexachlorocyclopentadiene	0.133	0.140	0.133	0.151	0.148	0.151	0.160	0.171	0.173	0.170	0.153	9.97
43)	T	2,4,6-Trichlorophenol	0.157	0.154	0.150	0.152	0.162	0.168	0.176	0.183	0.179	0.178	0.166	7.53
44)	T	2,4,5-Trichlorophenol	0.161	0.145	0.161	0.161	0.178	0.181	0.186	0.193	0.190	0.187	0.174	9.22
45)	S	2-Fluorobiphenyl	0.608	0.576	0.595	0.599	0.626	0.628	0.636	0.655	0.652	0.659	0.623	4.54
46)	T	2-Chloronaphthalene	0.549	0.539	0.549	0.535	0.554	0.562	0.570	0.592	0.582	0.587	0.562	3.60
47)	T	2-Nitroaniline		0.171	0.172	0.177	0.191	0.198	0.213	0.229	0.227	0.231	0.201	12.41
48)	T	1,4-Dinitrobenzene				0.069	0.081	0.090	0.095	0.103	0.103	0.101	0.092	13.85
49)	T	1,3-Dinitrobenzene			0.081	0.084	0.093	0.100	0.108	0.114	0.113	0.112	0.100	13.08
50)	T	Dimethyl phthalate	0.589	0.563	0.597	0.587	0.635	0.646	0.665	0.699	0.687	0.689	0.636	7.74
51)	T	Acenaphthylene	0.859	0.814	0.881	0.877	0.932	0.945	0.962	1.007	0.986	0.995	0.926	7.03
52)	T	2,6-Dinitrotoluene	0.116	0.114	0.123	0.123	0.138	0.147	0.154	0.165	0.160	0.157	0.140	13.89
53)	T	1,2-Dinitrobenzene			0.051	0.054	0.067	0.068	0.068	0.074	0.071	0.071	0.066	12.71
54)	I	IS2_Naphthalene-d8	----------ISTD----------											
55)	T	a-Terpineol	0.305	0.312	0.309	0.311	0.307	0.309	0.310	0.298	0.288	0.301	0.305	2.47
56)	T	3-Chloroaniline	0.152	0.151	0.141	0.148	0.144	0.142	0.138	0.133	0.130	0.133	0.141	5.44
57)	T	2,6-Dichlorophenol	0.226	0.222	0.235	0.219	0.227	0.230	0.240	0.239	0.239	0.243	0.232	3.56
58)	T	1-chloro-2-nitrobenzene	0.121	0.117	0.118	0.128	0.122	0.123	0.132	0.132	0.131	0.135	0.126	5.12
59)	T	Caprolactam		0.167	0.162	0.167	0.170	0.174	0.174	0.171	0.167	0.176	0.170	2.59
60)	T	1,2,4,5-Tetrachlorobenzene	0.209	0.214	0.222	0.212	0.205	0.209	0.222	0.226	0.224	0.231	0.217	3.97
61)	T	Biphenyl	0.694	0.701	0.694	0.681	0.676	0.685	0.709	0.725	0.716	0.743	0.702	2.97
62)	I	IS1_Acenaphthene-d10	----------ISTD----------											
63)	T	3-Nitroaniline	0.324	0.323	0.360	0.364	0.388	0.407	0.412	0.425	0.412	0.425	0.384	10.19
64)	T	Acenaphthene	1.231	1.235	1.188	1.212	1.205	1.205	1.178	1.200	1.174	1.221	1.205	1.74
65)	T	2,4-Dinitrophenol				0.172	0.187	0.207	0.220	0.239	0.235	0.239	0.214	12.48
66)	T	Dibenzofuran	1.712	1.791	1.747	1.728	1.783	1.736	1.753	1.785	1.729	1.794	1.756	1.72
67)	T	2,4-Dinitrotoluene	0.339	0.336	0.382	0.366	0.421	0.436	0.443	0.470	0.443	0.454	0.409	12.00
68)	T	4-Nitrophenol		0.331	0.311	0.308	0.335	0.337	0.333	0.351	0.340	0.360	0.334	5.00
69)	T	2,3,5,6-Tetrachlorophenol		0.251	0.279	0.292	0.302	0.308	0.311	0.332	0.324	0.329	0.303	8.58
70)	T	2,3,4,6-Tetrachlorophenol		0.293	0.293	0.278	0.300	0.309	0.313	0.330	0.318	0.326	0.307	5.60
71)	T	Diethyl phthalate	1.448	1.423	1.440	1.414	1.501	1.514	1.511	1.600	1.542	1.599	1.499	4.53
72)	T	Fluorene	1.416	1.421	1.358	1.349	1.431	1.405	1.418	1.458	1.411	1.450	1.412	2.47
73)	T	4-Chlorophenyl-phenylether	0.609	0.609	0.605	0.606	0.611	0.602	0.600	0.630	0.605	0.624	0.610	1.57
74)	T	4-Nitroaniline	0.301	0.321	0.334	0.348	0.386	0.399	0.412	0.433	0.419	0.435	0.379	12.91
75)	T	4,6-Dinitro-o-cresol				0.196	0.220	0.239	0.251	0.273	0.264	0.272	0.245	11.71
76)	T	NDPA/DPA	1.174	1.122	1.143	1.127	1.209	1.203	1.208	1.259	1.212	1.266	1.192	4.23

Initial Calibration Summary
Form 6

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: SV103	**Ical Ref**	: ICAL15305
Calibration dates	: 12/05/18 00:09 12/06/18 00:14		

Calibration Files
1.0 =ADPL1r.d 2.0 =ADPL2r.d 3.0 =ADPL3r.d 5.0 =ADPL4r.d 10 =ADPL5r.d 20 =ADPL6r.d 50 =ADPL7
100 =ADPL8r.d 150 =ADPL9r.d 200 =ADPL10r.d

		Compound	1.0	2.0	3.0	5.0	10	20	50	100	150	200	Avg	%RSD
77)	T	Azobenzene	1.530	1.691	1.631	1.570	1.648	1.611	1.567	1.604	1.511	1.613	1.598	3.40
78)	S	2,4,6-Tribromophenol		0.144	0.159	0.148	0.158	0.163	0.174	0.186	0.181	0.179	0.166	8.99
79)	T	4-Bromophenyl-phenylether	0.333	0.336	0.301	0.313	0.322	0.327	0.327	0.342	0.331	0.349	0.328	4.24
80)	T	Hexachlorobenzene	0.335	0.348	0.334	0.341	0.348	0.352	0.359	0.384	0.371	0.378	0.355	4.94
81)	T	Pentachlorophenol			0.195	0.193	0.213	0.223	0.237	0.248	0.243	0.247	0.225	9.97
82)	I	IS2_Acenaphthene-d10	----------ISTD----------											
83)	T	Dichloran			0.119	0.109	0.117	0.125	0.141	0.153	0.160	0.162	0.136	15.41
84)	T	Pentachloronitrobenzene				0.107	0.119	0.117	0.124	0.126	0.132	0.133	0.123	7.42
85)	I	IS3_Acenaphthene-d10	----------ISTD----------											
86)	T	Atrazine	0.290	0.263	0.275	0.277	0.289	0.311	0.321	0.348	0.360	0.367	0.310	12.05
87)	I	IS1_Phenanthrene-d10	----------ISTD----------											
88)	T	Phenanthrene	1.118	1.113	1.121	1.108	1.109	1.083	1.072	1.102	1.083	1.119	1.103	1.57
89)	T	Anthracene	1.076	1.065	1.057	1.072	1.094	1.085	1.096	1.138	1.127	1.161	1.097	3.12
90)	T	Carbazole	0.990	0.966	0.983	0.990	1.046	1.043	1.026	1.060	1.022	1.046	1.017	3.19
91)	T	Di-n-butylphthalate	1.196	1.202	1.208	1.207	1.292	1.329	1.350	1.417	1.382	1.438	1.302	7.25
92)	T	Fluoranthene	1.075	1.077	1.059	1.052	1.069	1.099	1.065	1.117	1.085	1.102	1.080	1.90
93)	T	Benzidine		0.675	0.688	0.702	0.731	0.764	0.721	0.788	0.794	0.804	0.741	6.52
94)	T	Pyrene	1.130	1.110	1.104	1.073	1.117	1.151	1.106	1.155	1.112	1.139	1.120	2.20
95)	S	4-Terphenyl-d14	0.754	0.764	0.763	0.727	0.768	0.784	0.773	0.819	0.813	0.823	0.779	4.00
96)	T	Butyl benzyl phthalate			0.529	0.502	0.546	0.584	0.583	0.623	0.613	0.636	0.577	8.24
97)	I	IS2_Phenanthrene-d10	----------ISTD----------											
98)	T	Diphenamid			0.433	0.424	0.422	0.449	0.489	0.523	0.531	0.538	0.476	10.47
99)	I	IS3_Phenanthrene-d10	----------ISTD----------											
100)	T	n-Octadecane	0.344	0.365	0.346	0.366	0.368	0.379	0.386	0.418	0.429	0.454	0.386	9.46
101)	T	Parathion				0.088	0.098	0.105	0.129	0.153	0.169	0.183	*Q	0.9996
102)	T	3,3'-Dimethylbenzidine			0.510	0.519	0.581	0.624	0.695	0.764	0.835	0.839	0.671	19.82
103)	I	IS1_Chrysene-d12	----------ISTD----------											
104)	T	Benzo[a]anthracene	1.236	1.165	1.188	1.147	1.168	1.148	1.166	1.172	1.175	1.205	1.177	2.27
105)	T	3,3'-Dichlorobenzidine		0.398	0.393	0.413	0.420	0.433	0.447	0.448	0.444	0.457	0.428	5.44
106)	T	Chrysene	1.121	1.127	1.118	1.117	1.127	1.109	1.099	1.101	1.086	1.111	1.112	1.19
107)	T	bis(2-Ethylhexyl)phthalate		0.836	0.881	0.842	0.898	0.924	0.970	1.005	0.991	1.019	0.930	7.51
108)	T	Di-n-octylphthalate			1.428	1.413	1.540	1.593	1.678	1.716	1.718	1.781	1.608	8.60
109)	T	Benzo(b)fluoranthene	1.101	1.061	1.036	1.064	1.120	1.097	1.112	1.061	1.053	1.072	1.078	2.57
110)	T	Benzo(k)fluoranthene	1.077	1.085	1.071	1.077	1.081	1.106	1.098	1.088	1.048	1.091	1.082	1.48
111)	T	Benzo(a)pyrene	1.025	1.002	1.009	1.006	1.065	1.091	1.085	1.058	1.040	1.067	1.045	3.17
112)	I	IS1_Perylene-d12	----------ISTD----------											
113)	T	Indeno(1,2,3-cd)pyrene	0.980	0.999	0.961	0.988	1.005	1.000	1.022	1.036	1.014	1.024	1.003	2.24
114)	T	Dibenzo[a,h]anthracene	0.961	0.990	1.002	1.013	1.022	1.030	1.041	1.048	1.031	1.108	1.025	3.80

Initial Calibration Summary
Form 6

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: SV103	**Ical Ref**	: ICAL15305
Calibration dates	: 12/05/18 00:09 12/06/18 00:14		

Calibration Files

1.0 =ADPL1r.d 2.0 =ADPL2r.d 3.0 =ADPL3r.d 5.0 =ADPL4r.d 10 =ADPL5r.d 20 =ADPL6r.d 50 =ADPL7

100 =ADPL8r.d 150 =ADPL9r.d 200 =ADPL10r.d

	Compound	1.0	2.0	3.0	5.0	10	20	50	100	150	200	Avg	%RSD
115) T	Benzo(g,h,i)perylene	1.087	1.073	1.041	1.075	1.082	1.063	1.074	1.065	1.033	1.038	1.063	1.80

Initial Calibration Summary
Form 6

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: SV112	**Ical Ref**	: ICAL15308
Calibration dates	: 12/05/18 20:17 12/06/18 09:51		

Calibration Files
1.0 =AP9L1.D 2.0 =AP9L2.D 3.0 =AP9L3.D 5.0 =AP9L4.D 10 =AP9L5.D 20 =ADPL6.D 50 =AP9L7.D
100 =AP9L8.D 150 =AP9L9.D 200 =AP9L10.D

		Compound	1.0	2.0	3.0	5.0	10	20	50	100	150	200	Avg	%RSD
1)	I	IS1_1,4-Dichlorobenzene-d4	----------ISTD----------											
2)	t	N-Nitrosodimethylamine	0.899	0.950	0.923	0.903	0.933	0.927	0.932	0.936	0.943	0.961	0.931	2.04
3)	t	Pyridine	1.299	1.585	1.609	1.594	1.667	1.620	1.612	1.632	1.662	1.685	1.597	6.87
4)	S	2-Fluorophenol	1.355	1.352	1.392	1.410	1.417	1.375	1.410	1.438	1.448	1.464	1.406	2.71
5)	T	Aniline	2.260	2.301	2.302	2.279	2.322	2.320	2.278	2.255	2.211	2.143	2.267	2.43
6)	t	2-Chlorophenol	1.421	1.473	1.443	1.473	1.513	1.520	1.516	1.526	1.541	1.542	1.497	2.80
7)	S	Phenol-d6	1.647	1.734	1.696	1.686	1.735	1.741	1.717	1.722	1.710	1.677	1.707	1.76
8)	T	Phenol	1.922	2.011	1.974	2.021	2.041	2.023	1.994	2.001	1.957	1.923	1.987	2.09
9)	T	bis(2-Chloroethyl)ether	1.476	1.501	1.473	1.451	1.439	1.431	1.393	1.402	1.387	1.384	1.434	2.88
10)	T	1,3-Dichlorobenzene	1.683	1.684	1.636	1.649	1.680	1.610	1.604	1.623	1.616	1.613	1.640	1.96
11)	T	1,4-Dichlorobenzene	1.668	1.777	1.698	1.696	1.709	1.635	1.636	1.649	1.624	1.613	1.671	3.01
12)	T	1,2-Dichlorobenzene	1.656	1.714	1.628	1.619	1.632	1.572	1.552	1.568	1.545	1.505	1.599	3.87
13)	t	Benzyl alcohol	1.041	1.095	1.079	1.099	1.155	1.182	1.177	1.190	1.186	1.166	1.137	4.71
14)	T	bis(2-chloroisopropyl)ether	2.138	2.112	2.078	2.083	2.062	2.037	1.951	1.934	1.899	1.850	2.014	4.89
15)	T	2-Methylphenol	1.246	1.323	1.303	1.330	1.379	1.378	1.354	1.356	1.349	1.325	1.334	2.95
16)	T	Hexachloroethane	0.610	0.644	0.607	0.611	0.622	0.609	0.615	0.629	0.628	0.630	0.620	1.94
17)	T	n-Nitrosodi-n-propylamine	0.972	1.013	1.002	0.981	1.005	1.033	1.019	1.021	1.012	0.995	1.005	1.87
18)	T	3-Methylphenol/4-Methylphenol	1.298	1.349	1.371	1.388	1.435	1.475	1.438	1.431	1.412	1.393	1.399	3.65
19)	S	Nitrobenzene-d5	1.503	1.461	1.440	1.441	1.479	1.519	1.496	1.516	1.518	1.499	1.487	2.04
20)	T	Nitrobenzene	1.508	1.508	1.467	1.498	1.557	1.567	1.539	1.543	1.530	1.491	1.521	2.07
21)	T	Isophorone	2.498	2.574	2.558	2.577	2.733	2.841	2.763	2.773	2.730	2.703	2.675	4.26
22)	T	2-Nitrophenol				0.621	0.675	0.726	0.742	0.772	0.770	0.773	0.726	7.99
23)	T	2,4-Dimethylphenol		1.317	1.324	1.352	1.420	1.479	1.433	1.451	1.435	1.426	1.404	4.14
24)	T	bis(2-Chloroethoxy)methane	1.779	1.787	1.782	1.755	1.838	1.848	1.773	1.783	1.745	1.723	1.781	2.14
25)	T	2,4-Dichlorophenol		1.083	1.103	1.106	1.164	1.223	1.194	1.216	1.210	1.185	1.165	4.64
26)	T	1,2,4-Trichlorobenzene	1.300	1.353	1.278	1.269	1.296	1.285	1.260	1.262	1.248	1.237	1.279	2.55
27)	I	IS2_1,4-Dichlorobenzene-d4	----------ISTD----------											
28)	T	Benzaldehyde	1.206	1.207	1.157	1.172	1.181	1.184	1.180	1.167	1.182	1.185	1.182	1.30
29)	T	Acetophenone	2.014	2.025	1.918	2.009	1.993	1.939	2.000	1.943	1.977	1.979	1.980	1.80
30)	T	m-Toluidine	1.758	1.833	1.806	1.896	1.902	1.915	1.973	1.905	1.930	1.958	1.888	3.61
31)	T	2-Chloroaniline	1.718	1.739	1.709	1.757	1.781	1.743	1.788	1.742	1.778	1.783	1.754	1.61
32)	I	IS3_1,4-Dichlorobenzene-d4	----------ISTD----------											
33)	T	n-Decane	1.589	1.558	1.530	1.540	1.542	1.522	1.477	1.474	1.472	1.434	1.514	3.15
34)	I	IS1_Naphthalene-d8	----------ISTD----------											
35)	T	Naphthalene	1.131	1.149	1.126	1.106	1.104	1.065	1.048	1.056	1.025	1.011	1.082	4.40
36)	T	Benzoic Acid					0.126	0.190	0.247	0.271	0.282	0.297	*Q	0.9999
37)	T	4-Chloroaniline	0.125	0.124	0.131	0.132	0.133	0.132	0.130	0.132	0.129	0.131	0.130	2.27
38)	T	Hexachlorobutadiene	0.161	0.173	0.160	0.160	0.165	0.156	0.156	0.162	0.161	0.165	0.162	3.08

Initial Calibration Summary
Form 6

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: SV112	**Ical Ref**	: ICAL15308
Calibration dates	: 12/05/18 20:17 12/06/18 09:51		

Calibration Files
1.0 =AP9L1.D 2.0 =AP9L2.D 3.0 =AP9L3.D 5.0 =AP9L4.D 10 =AP9L5.D 20 =ADPL6.D 50 =AP9L7.D
100 =AP9L8.D 150 =AP9L9.D 200 =AP9L10.D

		Compound	1.0	2.0	3.0	5.0	10	20	50	100	150	200	Avg	%RSD
39)	T	p-Chloro-m-cresol		0.274	0.274	0.283	0.293	0.308	0.303	0.312	0.310	0.317	0.297	5.57
40)	T	2-Methylnaphthalene	0.713	0.731	0.708	0.704	0.721	0.709	0.690	0.694	0.682	0.678	0.703	2.41
41)	T	1-Methylnaphthalene	0.246	0.254	0.235	0.241	0.246	0.238	0.232	0.236	0.233	0.234	0.240	2.95
42)	T	Hexachlorocyclopentadiene				0.158	0.169	0.176	0.186	0.198	0.200	0.208	0.185	9.82
43)	T	2,4,6-Trichlorophenol		0.160	0.162	0.168	0.178	0.189	0.197	0.200	0.202	0.206	0.185	9.74
44)	T	2,4,5-Trichlorophenol			0.182	0.182	0.198	0.207	0.206	0.213	0.211	0.216	0.202	6.57
45)	S	2-Fluorobiphenyl	0.754	0.770	0.742	0.730	0.745	0.734	0.720	0.718	0.698	0.701	0.731	3.10
46)	T	2-Chloronaphthalene	0.629	0.646	0.636	0.614	0.639	0.638	0.629	0.631	0.619	0.614	0.629	1.72
47)	T	2-Nitroaniline				0.172	0.191	0.210	0.219	0.226	0.226	0.231	0.211	10.35
48)	T	1,4-Dinitrobenzene					0.076	0.087	0.094	0.098	0.100	0.103	0.093	10.69
49)	T	1,3-Dinitrobenzene				0.078	0.094	0.105	0.106	0.110	0.109	0.109	0.102	11.46
50)	T	Dimethyl phthalate	0.705	0.700	0.710	0.705	0.729	0.762	0.736	0.731	0.716	0.714	0.721	2.61
51)	T	Acenaphthylene	0.951	0.981	0.981	0.989	1.041	1.058	1.030	1.019	0.983	0.971	1.008	3.43
52)	T	2,6-Dinitrotoluene		0.119	0.125	0.134	0.147	0.160	0.157	0.160	0.161	0.164	0.147	11.60
53)	T	1,2-Dinitrobenzene		0.054	0.055	0.059	0.064	0.069	0.069	0.069	0.069	0.069	0.064	10.08
54)	I	IS2_Naphthalene-d8	----------ISTD----------											
55)	T	a-Terpineol	0.242	0.246	0.241	0.248	0.251	0.257	0.262	0.257	0.251	0.249	0.250	2.71
56)	T	3-Chloroaniline	0.133	0.129	0.136	0.134	0.136	0.136	0.133	0.131	0.128	0.128	0.132	2.40
57)	T	2,6-Dichlorophenol	0.208	0.227	0.229	0.246	0.252	0.257	0.266	0.266	0.268	0.270	0.249	8.50
58)	T	1-chloro-2-nitrobenzene	0.118	0.120	0.119	0.125	0.126	0.127	0.134	0.134	0.137	0.139	0.128	6.02
59)	T	Caprolactam			0.096	0.105	0.119	0.131	0.144	0.147	0.151	0.151	0.130	16.52
60)	T	1,2,4,5-Tetrachlorobenzene	0.288	0.289	0.267	0.275	0.269	0.266	0.261	0.266	0.265	0.267	0.271	3.60
61)	T	Biphenyl	0.813	0.822	0.761	0.808	0.771	0.758	0.764	0.742	0.739	0.728	0.771	4.27
62)	I	IS1_Acenaphthene-d10	----------ISTD----------											
63)	T	3-Nitroaniline			0.321	0.346	0.372	0.390	0.395	0.406	0.405	0.415	0.381	8.59
64)	T	Acenaphthene	1.231	1.242	1.192	1.200	1.198	1.167	1.136	1.154	1.124	1.118	1.176	3.69
65)	T	2,4-Dinitrophenol				0.057	0.087	0.117	0.145	0.167	0.175	0.185	*Q	0.9998
66)	T	Dibenzofuran	1.861	1.892	1.833	1.842	1.855	1.804	1.750	1.750	1.670	1.657	1.791	4.55
67)	T	2,4-Dinitrotoluene		0.297	0.308	0.341	0.372	0.408	0.419	0.428	0.425	0.429	0.381	14.03
68)	T	4-Nitrophenol				0.245	0.268	0.289	0.295	0.305	0.302	0.313	0.288	8.34
69)	T	2,3,5,6-Tetrachlorophenol				0.261	0.289	0.307	0.316	0.329	0.330	0.340	0.310	8.87
70)	T	2,3,4,6-Tetrachlorophenol			0.275	0.286	0.310	0.321	0.321	0.335	0.330	0.340	0.315	7.38
71)	T	Diethyl phthalate	1.333	1.421	1.419	1.447	1.504	1.527	1.509	1.528	1.514	1.537	1.474	4.52
72)	T	Fluorene	1.339	1.395	1.369	1.377	1.404	1.400	1.369	1.379	1.328	1.336	1.370	2.01
73)	T	4-Chlorophenyl-phenylether	0.670	0.661	0.643	0.649	0.649	0.637	0.627	0.639	0.620	0.626	0.642	2.45
74)	T	4-Nitroaniline			0.299	0.345	0.374	0.389	0.389	0.400	0.398	0.407	0.375	9.74
75)	T	4,6-Dinitro-o-cresol				0.100	0.129	0.168	0.193	0.210	0.218	0.227	*Q	1.0000
76)	T	NDPA/DPA	1.136	1.155	1.175	1.187	1.217	1.217	1.203	1.198	1.174	1.176	1.184	2.20

Initial Calibration Summary
Form 6

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: SV112	**Ical Ref**	: ICAL15308
Calibration dates	: 12/05/18 20:17 12/06/18 09:51		

Calibration Files
1.0 =AP9L1.D 2.0 =AP9L2.D 3.0 =AP9L3.D 5.0 =AP9L4.D 10 =AP9L5.D 20 =ADPL6.D 50 =AP9L7.D
100 =AP9L8.D 150 =AP9L9.D 200 =AP9L10.D

		Compound	1.0	2.0	3.0	5.0	10	20	50	100	150	200	Avg	%RSD
77)	T	Azobenzene	1.272	1.381	1.345	1.407	1.471	1.488	1.439	1.453	1.401	1.411	1.407	4.53
78)	S	2,4,6-Tribromophenol		0.130	0.146	0.142	0.157	0.170	0.177	0.187	0.191		0.163	13.73
79)	T	4-Bromophenyl-phenylether	0.343	0.348	0.344	0.343	0.342	0.341	0.341	0.353	0.348	0.363	0.347	2.00
80)	T	Hexachlorobenzene	0.392	0.370	0.379	0.371	0.384	0.383	0.374	0.388	0.387	0.405	0.383	2.73
81)	T	Pentachlorophenol			0.123	0.141	0.178	0.214	0.232	0.246	0.251	0.265	*L	0.9981
82)	I	IS2_Acenaphthene-d10	----------ISTD----------											
83)	T	Dichloran				0.090	0.105	0.121	0.144	0.156	0.167	0.167	*L	0.9976
84)	T	Pentachloronitrobenzene			0.096	0.112	0.123	0.132	0.145	0.150	0.158	0.158	0.134	16.82
85)	I	IS3_Acenaphthene-d10	----------ISTD----------											
86)	T	Atrazine			0.215	0.234	0.280	0.303	0.334	0.358	0.381	0.391	*L	0.9973
87)	I	IS1_Phenanthrene-d10	----------ISTD----------											
88)	T	Phenanthrene	1.255	1.288	1.228	1.215	1.212	1.171	1.149	1.162	1.130	1.144	1.195	4.37
89)	T	Anthracene	1.086	1.173	1.171	1.168	1.183	1.176	1.165	1.189	1.155	1.169	1.163	2.48
90)	T	Carbazole	0.992	1.082	1.087	1.122	1.168	1.155	1.128	1.140	1.100	1.121	1.109	4.49
91)	T	Di-n-butylphthalate	0.947	1.068	1.120	1.205	1.307	1.378	1.430	1.481	1.423	1.463	1.282	14.58
92)	T	Fluoranthene	1.108	1.150	1.149	1.182	1.198	1.214	1.205	1.242	1.218	1.241	1.191	3.65
93)	T	Benzidine			0.570	0.657	0.740	0.843	0.882	0.926	0.940	0.982	0.817	18.03
94)	T	Pyrene	1.192	1.221	1.234	1.283	1.283	1.297	1.278	1.278	1.259	1.268	1.259	2.64
95)	S	4-Terphenyl-d14	0.817	0.806	0.815	0.851	0.846	0.871	0.876	0.899	0.879	0.910	0.857	4.21
96)	T	Butyl benzyl phthalate				0.442	0.502	0.583	0.635	0.669	0.670	0.696	0.600	15.95
97)	I	IS2_Phenanthrene-d10	----------ISTD----------											
98)	T	Diphenamid	0.342	0.356	0.379	0.411	0.458	0.487	0.526	0.540	0.541	0.536	0.458	17.45
99)	I	IS3_Phenanthrene-d10	----------ISTD----------											
100)	T	n-Octadecane	0.329	0.356	0.367	0.424	0.476	0.504	0.509	0.511	0.498	0.481	0.445	15.85
101)	T	Parathion				0.045	0.060	0.077	0.113	0.139	0.151	0.163	*Q	0.9989
102)	T	3,3'-Dimethylbenzidine			0.240	0.299	0.440	0.563	0.718	0.786	0.851	0.886	*Q	0.9992
103)	I	IS1_Chrysene-d12	----------ISTD----------											
104)	T	Benzo[a]anthracene	1.213	1.243	1.239	1.253	1.297	1.274	1.289	1.332	1.324	1.346	1.281	3.45
105)	T	3,3'-Dichlorobenzidine			0.361	0.393	0.455	0.466	0.490	0.513	0.524	0.535	0.467	13.44
106)	T	Chrysene	1.251	1.303	1.258	1.236	1.257	1.210	1.191	1.230	1.210	1.237	1.238	2.55
107)	T	bis(2-Ethylhexyl)phthalate			0.588	0.684	0.836	0.915	1.014	1.060	1.061	1.085	*L	0.9995
108)	T	Di-n-octylphthalate			0.712	0.906	1.214	1.443	1.704	1.840	1.846	1.895	*L	0.9985
109)	T	Benzo(b)fluoranthene	0.892	0.971	1.014	1.079	1.172	1.175	1.184	1.278	1.275	1.354	1.139	12.98
110)	T	Benzo(k)fluoranthene	0.950	1.102	1.089	1.162	1.207	1.206	1.215	1.279	1.279	1.272	1.176	8.88
111)	T	Benzo(a)pyrene		0.860	0.907	0.995	1.089	1.133	1.170	1.259	1.271	1.306	1.110	14.54
112)	I	IS1_Perylene-d12	----------ISTD----------											
113)	T	Indeno(1,2,3-cd)pyrene		0.776	0.835	0.953	1.014	1.099	1.124	1.265	1.291	1.350	1.078	18.75
114)	T	Dibenzo[a,h]anthracene	0.815	0.933	0.989	1.031	1.109	1.126	1.147	1.240	1.239	1.275	1.090	13.61

Initial Calibration Summary
Form 6

Client	: CHA Companies	**Lab Number**	: L1849060
Project Name	: 700 SMITH BLVD	**Project Number**	: 29852.1202.44000
Instrument ID	: SV112	**Ical Ref**	: ICAL15308
Calibration dates	: 12/05/18 20:17 12/06/18 09:51		

Calibration Files

1.0 =AP9L1.D 2.0 =AP9L2.D 3.0 =AP9L3.D 5.0 =AP9L4.D 10 =AP9L5.D 20 =ADPL6.D 50 =AP9L7.D

100 =AP9L8.D 150 =AP9L9.D 200 =AP9L10.D

	Compound	1.0	2.0	3.0	5.0	10	20	50	100	150	200	Avg	%RSD
115) T	Benzo(g,h,i)perylene	0.861	0.962	0.987	1.039	1.107	1.129	1.120	1.227	1.218	1.258	1.091	11.77

Continuing Calibration
Form 7

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Instrument ID	: SV112	Calibration Date	: 12/06/18 15:16
Lab File ID	: ABN1206	Init. Calib. Date(s)	: 12/05/18 12/06/18
Sample No	: WG1186484-3	Init. Calib. Times	: 20:17 09:51
Channel	:		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	104	0
n-Nitrosodimethylamine	0.931	0.876	-	5.9	20	98	0
Pyridine	1.597	1.569	-	1.8	20	102	0
2-Fluorophenol	1.406	1.325	-	5.8	20	98	0
Aniline	2.267	2.161	-	4.7	20	99	0
2-Chlorophenol	1.497	1.446	-	3.4	20	100	0
Phenol-d6	1.707	1.626	-	4.7	20	99	0
Phenol	1.987	1.907	-	4	20	100	0
Bis(2-chloroethyl)ether	1.434	1.346	-	6.1	20	101	0
1,3-Dichlorobenzene	1.64	1.59	-	3	20	103	0
1,4-Dichlorobenzene	1.671	1.61	-	3.7	20	103	0
1,2-Dichlorobenzene	1.599	1.542	-	3.6	20	104	0
Benzyl alcohol	1.137	1.088	-	4.3	20	96	0
Bis(2-chloroisopropyl)ethe	2.014	1.817	-	9.8	20	97	0
2-Methylphenol	1.334	1.32	-	1	20	102	0
Hexachloroethane	0.62	0.591	-	4.7	20	100	0
n-Nitrosodi-n-propylamine	1.005	0.94	-	6.5	20	96	0
3-Methylphenol/4-Methylphe	1.399	1.372	-	1.9	20	100	0
Nitrobenzene-d5	1.487	1.398	-	6	20	98	0
Nitrobenzene	1.521	1.45	-	4.7	20	98	0
Isophorone	2.675	2.602	-	2.7	20	98	0
2-Nitrophenol	0.726	0.67	-	7.7	20	94	0
2,4-Dimethylphenol	1.404	1.374	-	2.1	20	100	0
Bis(2-chloroethoxy)methane	1.781	1.724	-	3.2	20	101	0
2,4-Dichlorophenol	1.165	1.168	-	-0.3	20	102	0
1,2,4-Trichlorobenzene	1.279	1.266	-	1	20	105	0
IS1_Naphthalene-d8	1	1	-	0	20	103	0
Naphthalene	1.082	1.041	-	3.8	20	103	0
Benzoic Acid	50	41.154	-	17.7	20	82	0
4-Chloroaniline	0.13	0.122	-	6.2	20	97	0
Hexachlorobutadiene	0.162	0.161	-	0.6	20	106	0
p-Chloro-m-cresol	0.297	0.289	-	2.7	20	99	0
2-Methylnaphthalene	0.703	0.692	-	1.6	20	104	0
1-Methylnaphthalene	0.24	0.231	-	3.7	20	103	0
Hexachlorocyclopentadiene	0.185	0.178	-	3.8	20	99	0
2,4,6-Trichlorophenol	0.185	0.188	-	-1.6	20	99	0
2,4,5-Trichlorophenol	0.202	0.203	-	-0.5	20	102	0
2-Fluorobiphenyl	0.731	0.727	-	0.5	20	104	0
2-Chloronaphthalene	0.629	0.627	-	0.3	20	103	0
2-Nitroaniline	0.211	0.203	-	3.8	20	96	0
1,4-Dinitrobenzene	0.093	0.087	-	6.5	20	96	0
1,3-Dinitrobenzene	0.102	0.103	-	-1	20	100	0
Dimethyl phthalate	0.721	0.729	-	-1.1	20	102	0
Acenaphthylene	1	1.021	-	-2.1	20	102	0
2,6-Dinitrotoluene	0.147	0.153	-	-4.1	20	101	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: CHA Companies	Lab Number	: L1849060		
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000		
Instrument ID	: SV112	Calibration Date	: 12/06/18 15:16		
Lab File ID	: ABN1206	Init. Calib. Date(s)	: 12/05/18	12/06/18	
Sample No	: WG1186484-3	Init. Calib. Times	: 20:17	09:51	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dinitrobenzene	0.064	0.067	-	-4.7	20	100	0
IS1_Acenaphthene-d10	1	1	-	0	20	104	0
3-Nitroaniline	0.381	0.374	-	1.8	20	99	0
Acenaphthene	1.176	1.134	-	3.6	20	104	0
2,4-Dinitrophenol	50	39.867	-	20.3*ok	20	83	0
Dibenzofuran	1.791	1.731	-	3.4	20	103	0
2,4-Dinitrotoluene	0.381	0.403	-	-5.8	20	100	0
4-Nitrophenol	0.288	0.262	-	9	20	93	0
2,3,5,6-Tetrachlorophenol	0.31	0.302	-	2.6	20	100	0
2,3,4,6-Tetrachlorophenol	0.315	0.314	-	0.3	20	102	0
Diethyl phthalate	1.474	1.449	-	1.7	20	100	0
Fluorene	1.37	1.339	-	2.3	20	102	0
4-Chlorophenyl phenyl ethe	0.642	0.621	-	3.3	20	103	0
4-Nitroaniline	0.375	0.367	-	2.1	20	99	0
4,6-Dinitro-o-cresol	50	43.198	-	13.6	20	90	0
NDPA/DPA	1.184	1.164	-	1.7	20	101	0
Azobenzene	1.407	1.349	-	4.1	20	98	0
2,4,6-Tribromophenol	0.163	0.172	-	-5.5	20	102	0
4-Bromophenyl phenyl ether	0.347	0.334	-	3.7	20	102	0
Hexachlorobenzene	0.383	0.378	-	1.3	20	106	0
Pentachlorophenol	50	43.916	-	12.2	20	97	0
IS1_Phenanthrene-d10	1	1	-	0	20	103	0
Phenanthrene	1.195	1.147	-	4	20	102	0
Anthracene	1.163	1.164	-	-0.1	20	103	0
Carbazole	1.109	1.108	-	0.1	20	101	0
Di-n-butylphthalate	1.282	1.355	-	-5.7	20	97	0
Fluoranthene	1.191	1.205	-	-1.2	20	103	0
Benzidine	0.817	0.79	-	3.3	20	92	0
Pyrene	1.259	1.27	-	-0.9	20	102	0
4-Terphenyl-d14	0.857	0.89	-	-3.9	20	104	0
Butyl benzyl phthalate	0.6	0.569	-	5.2	20	92	0
IS1_Chrysene-d12	1	1	-	0	20	104	0
Benzo(a)anthracene	1.281	1.269	-	0.9	20	103	0
3,3'-Dichlorobenzidine	0.467	0.461	-	1.3	20	98	0
Chrysene	1.238	1.185	-	4.3	20	104	0
Bis(2-ethylhexyl)phthalate	50	45.836	-	8.3	20	98	0
Di-n-octylphthalate	50	42.212	-	15.6	20	91	0
Benzo(b)fluoranthene	1.139	1.199	-	-5.3	20	106	0
Benzo(k)fluoranthene	1.176	1.188	-	-1	20	102	0
Benzo(a)pyrene	1.11	1.141	-	-2.8	20	102	0
IS1_Perylene-d12	1	1	-	0	20	103	0
Indeno(1,2,3-cd)pyrene	1.078	1.092	-	-1.3	20	100	0
Dibenzo(a,h)anthracene	1.09	1.142	-	-4.8	20	103	0
Benzo(ghi)perylene	1.091	1.134	-	-3.9	20	104	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: CHA Companies		Lab Number	: L1849060	
Project Name	: 700 SMITH BLVD		Project Number	: 29852.1202.44000	
Instrument ID	: SV103		Calibration Date	: 12/07/18 12:36	
Lab File ID	: ABN1207A		Init. Calib. Date(s)	: 12/05/18	12/06/18
Sample No	: WG1186894-3		Init. Calib. Times	: 00:09	00:14
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	88	0
n-Nitrosodimethylamine	0.886	0.773	-	12.8	20	85	0
Pyridine	1.385	1.265	-	8.7	20	83	-.03
2-Fluorophenol	1.328	1.355	-	-2	20	92	0
Aniline	2.146	2.122	-	1.1	20	91	0
2-Chlorophenol	1.469	1.534	-	-4.4	20	93	0
Phenol-d6	1.669	1.659	-	0.6	20	90	0
Phenol	1.963	1.87	-	4.7	20	88	0
Bis(2-chloroethyl)ether	1.398	1.323	-	5.4	20	89	0
1,3-Dichlorobenzene	1.546	1.585	-	-2.5	20	92	0
1,4-Dichlorobenzene	1.595	1.611	-	-1	20	92	0
1,2-Dichlorobenzene	1.517	1.526	-	-0.6	20	91	0
Benzyl alcohol	1.163	1.091	-	6.2	20	84	0
Bis(2-chloroisopropyl)ethe	2.866	2.189	-	23.6*	20	78	0
2-Methylphenol	1.31	1.345	-	-2.7	20	93	0
Hexachloroethane	0.61	0.609	-	0.2	20	92	0
n-Nitrosodi-n-propylamine	1.038	0.93	-	10.4	20	81	-.01
3-Methylphenol/4-Methylphe	1.366	1.453	-	-6.4	20	95	0
Nitrobenzene-d5	1.544	1.431	-	7.3	20	83	0
Nitrobenzene	1.561	1.422	-	8.9	20	83	0
Isophorone	2.651	2.672	-	-0.8	20	90	-.02
2-Nitrophenol	0.757	0.84	-	-11	20	93	0
2,4-Dimethylphenol	1.321	1.29	-	2.3	20	87	0
Bis(2-chloroethoxy)methane	1.699	1.723	-	-1.4	20	92	0
2,4-Dichlorophenol	1.083	1.208	-	-11.5	20	96	0
1,2,4-Trichlorobenzene	1.189	1.223	-	-2.9	20	91	0
IS1_Naphthalene-d8	1	1	-	0	20	85	0
Naphthalene	0.983	1.072	-	-9.1	20	94	0
Benzoic Acid	0.249	0.294	-	-18.1	20	100	0
4-Chloroaniline	0.124	0.117	-	5.6	20	83	0
Hexachlorobutadiene	0.125	0.13	-	-4	20	88	0
p-Chloro-m-cresol	0.269	0.297	-	-10.4	20	93	0
2-Methylnaphthalene	0.649	0.703	-	-8.3	20	92	0
1-Methylnaphthalene	0.206	0.202	-	1.9	20	84	0
Hexachlorocyclopentadiene	0.153	0.152	-	0.7	20	81	0
2,4,6-Trichlorophenol	0.166	0.193	-	-16.3	20	93	0
2,4,5-Trichlorophenol	0.174	0.209	-	-20.1*	20	96	0
2-Fluorobiphenyl	0.623	0.711	-	-14.1	20	95	0
2-Chloronaphthalene	0.562	0.635	-	-13	20	95	0
2-Nitroaniline	0.201	0.247	-	-22.9*	20	98	0
1,4-Dinitrobenzene	0.092	0.11	-	-19.6	20	98	0
1,3-Dinitrobenzene	0.1	0.12	-	-20	20	95	0
Dimethyl phthalate	0.636	0.736	-	-15.7	20	94	-.01
Acenaphthylene	0.926	1.065	-	-15	20	94	0
2,6-Dinitrotoluene	0.14	0.171	-	-22.1*	20	94	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: CHA Companies		Lab Number	: L1849060	
Project Name	: 700 SMITH BLVD		Project Number	: 29852.1202.44000	
Instrument ID	: SV103		Calibration Date	: 12/07/18 12:36	
Lab File ID	: ABN1207A		Init. Calib. Date(s)	: 12/05/18	12/06/18
Sample No	: WG1186894-3		Init. Calib. Times	: 00:09	00:14
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dinitrobenzene	0.066	0.078	-	-18.2	20	97	0
IS1_Acenaphthene-d10	1	1	-	0	20	87	0
3-Nitroaniline	0.384	0.456	-	-18.8	20	96	0
Acenaphthene	1.205	1.264	-	-4.9	20	93	0
2,4-Dinitrophenol	0.214	0.239	-	-11.7	20	95	0
Dibenzofuran	1.756	1.895	-	-7.9	20	94	0
2,4-Dinitrotoluene	0.409	0.484	-	-18.3	20	95	0
4-Nitrophenol	0.334	0.321	-	3.9	20	84	0
2,3,5,6-Tetrachlorophenol	0.303	0.342	-	-12.9	20	96	0
2,3,4,6-Tetrachlorophenol	0.307	0.34	-	-10.7	20	95	0
Diethyl phthalate	1.499	1.626	-	-8.5	20	94	0
Fluorene	1.412	1.536	-	-8.8	20	94	0
4-Chlorophenyl phenyl ethe	0.61	0.644	-	-5.6	20	93	0
4-Nitroaniline	0.379	0.467	-	-23.2*	20	99	0
4,6-Dinitro-o-cresol	0.245	0.279	-	-13.9	20	97	0
NDPA/DPA	1.192	1.302	-	-9.2	20	94	0
Azobenzene	1.598	1.566	-	2	20	87	0
2,4,6-Tribromophenol	0.166	0.197	-	-18.7	20	98	0
4-Bromophenyl phenyl ether	0.328	0.358	-	-9.1	20	95	0
Hexachlorobenzene	0.355	0.396	-	-11.5	20	96	0
Pentachlorophenol	0.225	0.255	-	-13.3	20	94	0
IS1_Phenanthrene-d10	1	1	-	0	20	86	0
Phenanthrene	1.103	1.169	-	-6	20	94	0
Anthracene	1.097	1.179	-	-7.5	20	93	0
Carbazole	1.017	1.155	-	-13.6	20	97	0
Di-n-butylphthalate	1.302	1.498	-	-15.1	20	96	0
Fluoranthene	1.08	1.186	-	-9.8	20	96	0
Benzidine	0.741	0.914	-	-23.3* MN	20	109	0
Pyrene	1.12	1.203	-	-7.4	20	94	0
4-Terphenyl-d14	0.779	0.829	-	-6.4	20	92	0
Butyl benzyl phthalate	0.577	0.672	-	-16.5	20	99	0
IS1_Chrysene-d12	1	1	-	0	20	85	0
Benzo(a)anthracene	1.177	1.273	-	-8.2	20	93	0
3,3'-Dichlorobenzidine	0.428	0.502	-	-17.3	20	95	0
Chrysene	1.112	1.216	-	-9.4	20	94	0
Bis(2-ethylhexyl)phthalate	0.93	1.138	-	-22.4*	20	100	0
Di-n-octylphthalate	1.608	2.018	-	-25.5*	20	102	0
Benzo(b)fluoranthene	1.078	1.22	-	-13.2	20	93	0
Benzo(k)fluoranthene	1.082	1.192	-	-10.2	20	92	0
Benzo(a)pyrene	1.045	1.181	-	-13	20	92	0
IS1_Perylene-d12	1	1	-	0	20	81	.01
Indeno(1,2,3-cd)pyrene	1.003	1.1	-	-9.7	20	87	.01
Dibenzo(a,h)anthracene	1.025	1.115	-	-8.8	20	87	.01
Benzo(ghi)perylene	1.063	1.124	-	-5.7	20	85	.02

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: CHA Companies	Lab Number	: L1849060		
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000		
Instrument ID	: SV103	Calibration Date	: 12/09/18 16:59		
Lab File ID	: ABN1209	Init. Calib. Date(s)	: 12/05/18	12/06/18	
Sample No	: WG1187317-3	Init. Calib. Times	: 00:09	00:14	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
IS1_1,4-Dichlorobenzene-d4	1	1	-	0	20	76	0
n-Nitrosodimethylamine	0.886	0.721	-	18.6	20	68	0
Pyridine	1.385	1.261	-	9	20	71	0
2-Fluorophenol	1.328	1.299	-	2.2	20	76	0
Aniline	2.146	2.016	-	6.1	20	75	0
2-Chlorophenol	1.469	1.441	-	1.9	20	75	0
Phenol-d6	1.669	1.551	-	7.1	20	73	0
Phenol	1.963	1.599	-	18.5	20	65	0
Bis(2-chloroethyl)ether	1.398	1.239	-	11.4	20	72	0
1,3-Dichlorobenzene	1.546	1.485	-	3.9	20	74	0
1,4-Dichlorobenzene	1.595	1.515	-	5	20	74	0
1,2-Dichlorobenzene	1.517	1.439	-	5.1	20	74	0
Benzyl alcohol	1.163	1	-	14	20	67	0
Bis(2-chloroisopropyl)ethe	2.866	2.028	-	29.2*	20	62	0
2-Methylphenol	1.31	1.27	-	3.1	20	75	0
Hexachloroethane	0.61	0.57	-	6.6	20	74	0
n-Nitrosodi-n-propylamine	1.038	0.841	-	19	20	63	0
3-Methylphenol/4-Methylphe	1.366	1.334	-	2.3	20	75	0
Nitrobenzene-d5	1.544	1.313	-	15	20	66	0
Nitrobenzene	1.561	1.296	-	17	20	65	0
Isophorone	2.651	2.405	-	9.3	20	70	0
2-Nitrophenol	0.757	0.765	-	-1.1	20	73	0
2,4-Dimethylphenol	1.321	1.299	-	1.7	20	75	0
Bis(2-chloroethoxy)methane	1.699	1.562	-	8.1	20	72	0
2,4-Dichlorophenol	1.083	1.098	-	-1.4	20	75	0
1,2,4-Trichlorobenzene	1.189	1.127	-	5.2	20	72	0
IS1_Naphthalene-d8	1	1	-	0	20	73	0
Naphthalene	0.983	0.976	-	0.7	20	74	0
Benzoic Acid	0.249	0.255	-	-2.4	20	74	0
4-Chloroaniline	0.124	0.103	-	16.9	20	63	0
Hexachlorobutadiene	0.125	0.126	-	-0.8	20	73	0
p-Chloro-m-cresol	0.269	0.259	-	3.7	20	69	0
2-Methylnaphthalene	0.649	0.628	-	3.2	20	71	0
1-Methylnaphthalene	0.206	0.18	-	12.6	20	64	0
Hexachlorocyclopentadiene	0.153	0.169	-	-10.5	20	77	0
2,4,6-Trichlorophenol	0.166	0.169	-	-1.8	20	70	0
2,4,5-Trichlorophenol	0.174	0.182	-	-4.6	20	71	0
2-Fluorobiphenyl	0.623	0.638	-	-2.4	20	73	0
2-Chloronaphthalene	0.562	0.557	-	0.9	20	71	0
2-Nitroaniline	0.201	0.211	-	-5	20	72	0
1,4-Dinitrobenzene	0.092	0.091	-	1.1	20	70	0
1,3-Dinitrobenzene	0.1	0.101	-	-1	20	69	0
Dimethyl phthalate	0.636	0.626	-	1.6	20	69	0
Acenaphthylene	0.926	0.929	-	-0.3	20	71	0
2,6-Dinitrotoluene	0.14	0.146	-	-4.3	20	69	0

* Value outside of QC limits.

Continuing Calibration
Form 7

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Instrument ID	: SV103	Calibration Date	: 12/09/18 16:59
Lab File ID	: ABN1209	Init. Calib. Date(s)	: 12/05/18 12/06/18
Sample No	: WG1187317-3	Init. Calib. Times	: 00:09 00:14
Channel	:		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
1,2-Dinitrobenzene	0.066	0.066	-	0	20	71	0
IS1_Acenaphthene-d10	1	1	-	0	20	78	0
3-Nitroaniline	0.384	0.373	-	2.9	20	71	0
Acenaphthene	1.205	1.054	-	12.5	20	70	0
2,4-Dinitrophenol	0.214	0.187	-	12.6	20	66	0
Dibenzofuran	1.756	1.578	-	10.1	20	70	0
2,4-Dinitrotoluene	0.409	0.387	-	5.4	20	68	0
4-Nitrophenol	0.334	0.253	-	24.3*	20	59	0
2,3,5,6-Tetrachlorophenol	0.303	0.284	-	6.3	20	71	0
2,3,4,6-Tetrachlorophenol	0.307	0.28	-	8.8	20	70	0
Diethyl phthalate	1.499	1.31	-	12.6	20	68	0
Fluorene	1.412	1.257	-	11	20	69	0
4-Chlorophenyl phenyl ethe	0.61	0.544	-	10.8	20	71	0
4-Nitroaniline	0.379	0.375	-	1.1	20	71	0
4,6-Dinitro-o-cresol	0.245	0.209	-	14.7	20	65	0
NDPA/DPA	1.192	1.07	-	10.2	20	69	0
Azobenzene	1.598	1.26	-	21.2*	20	63	0
2,4,6-Tribromophenol	0.166	0.164	-	1.2	20	73	0
4-Bromophenyl phenyl ether	0.328	0.289	-	11.9	20	69	0
Hexachlorobenzene	0.355	0.331	-	6.8	20	72	0
Pentachlorophenol	0.225	0.212	-	5.8	20	70	0
IS1_Phenanthrene-d10	1	1	-	0	20	69	0
Phenanthrene	1.103	1.044	-	5.3	20	67	0
Anthracene	1.097	1.095	-	0.2	20	69	0
Carbazole	1.017	1.035	-	-1.8	20	70	0
Di-n-butylphthalate	1.302	1.336	-	-2.6	20	68	0
Fluoranthene	1.08	1.065	-	1.4	20	69	0
Benzidine	0.741	0.817	-	-10.3	20	78	0
Pyrene	1.12	1.093	-	2.4	20	68	0
4-Terphenyl-d14	0.779	0.757	-	2.8	20	68	0
Butyl benzyl phthalate	0.577	0.596	-	-3.3	20	71	0
IS1_Chrysene-d12	1	1	-	0	20	69	0
Benzo(a)anthracene	1.177	1.104	-	6.2	20	65	0
3,3'-Dichlorobenzidine	0.428	0.47	-	-9.8	20	73	0
Chrysene	1.112	1.088	-	2.2	20	68	0
Bis(2-ethylhexyl)phthalate	0.93	1.016	-	-9.2	20	72	0
Di-n-octylphthalate	1.608	1.812	-	-12.7	20	75	0
Benzo(b)fluoranthene	1.078	1.118	-	-3.7	20	69	0
Benzo(k)fluoranthene	1.082	1.108	-	-2.4	20	70	0
Benzo(a)pyrene	1.045	1.101	-	-5.4	20	70	0
IS1_Perylene-d12	1	1	-	0	20	70	0
Indeno(1,2,3-cd)pyrene	1.003	0.943	-	6	20	64	0
Dibenzo(a,h)anthracene	1.025	0.955	-	6.8	20	64	0
Benzo(ghi)perylene	1.063	0.971	-	8.7	20	63	0

* Value outside of QC limits.

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QA/QC Review of 8082 PCB Data
for Alpha Analytical Labs
SDG Number: L1849060

5 Soil Samples and 1 Field Duplicate
Collected November 29 and 30, 2018

Prepared by: Donald Anné
December 17, 2018

Holding Times: The samples were extracted and analyzed within USEPA SW-846 holding times.

Blanks: The analysis of the method blank reported target aroclors as not detected.

Surrogate Recovery: The surrogates for samples CB-02 and CB-01 were diluted beyond detection limits. No action is taken on surrogates diluted beyond detection limits.

Matrix Spike/Matrix Spike Duplicate: The relative percent differences for aroclor 1016 and aroclor 1260 were below the allowable maximum, but 1 of 2 percent recoveries for aroclor 1016 was above QC limits for soil MS/MSD sample CB-03. Positive results for aroclor 1016 should be considered estimated, biased high (J+). Sample CB-03 reported aroclor 1016 as "not detected"; therefore, no action is taken.

Field Duplicates: The relative percent difference for aroclor 1260 was above the allowable maximum (35%) for soil field duplicate pair CB-03/DUP-18 (attached table). Results for aroclor 1260 should be considered estimated (J) in samples CB-03 and DUP-18.

Laboratory Control Sample: The relative percent differences for aroclor 1016 and aroclor 1260 were below the allowable maximums and percent recoveries were within QC limits for soil samples WG1184841-2, WG1184841-3, WG1184858-2, and WG1184858-3.

Initial Calibration: The %RSDs were below the allowable maximum (20%) on both columns, as required.

Continuing Calibration: The average %Ds for aroclor 1016 and aroclor-1260 were below the allowable maximum (20%) for both columns, as required.

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Method 8082 PCB Data
Lab Number: L1849060

PCB Identification Summary: Checked surrogate and aroclor results were within quantitation limits. The RPDs for aroclor 1260 in samples CB-04 and DUP-18 were above the allowable maximum (25%), but not above 70%. The results for aroclor 1260 should be considered estimated, biased low (J-) in samples CB-04 and DUP-18.

PCBs

Calculations for Field Duplicate Relative Percent Difference (RPD)
SDG No. L1849060

S1= CB-03 **S2=** DUP-18

Analyte	S1	S2	RPD (%)	
Aroclor 1242	901	662	31%	
Aroclor 1254	2050	1620	23%	
Aroclor 1260	1590	1010	45%	*

* RPD is above the allowable maximum 35%

Results are in units of ug/kg.

Bold numbers were values that below the CRQL.
ND - Not detected.
NC - Not calculated, both results must be above the CRDL for valid RPDs to be calculated.

Form 2
Surrogate Recovery
PCBS

Client: CHA Companies
Project Name: 700 SMITH BLVD

Lab Number: L1849060
Project Number: 29852.1202.44000
Matrix: Soil

GC Column 1: CLP-Pesticide
GC Column 2: CLP-PesticideII

CLIENT ID (LAB SAMPLE NO.)	TCX 1 %REC	TCX 2 %REC	DCB 1 %REC	DCB 2 %REC	OTHER (1)	OTHER (2)	TOT OUT
CB-05 (L1849060-01)	67	67	68	99			0
CB-02 (L1849060-02D)	0*	0*	0*	0*			4
CB-03 (L1849060-03)	61	71	70	89			0
CB-04 (L1849060-04)	61	66	62	69			0
CB-01 (L1849060-05D)	0*	0*	0*	0*			4
DUP-18 (L1849060-06)	64	74	64	91			0
WG1184841-1BLANK	70	74	61	66			0
WG1184841-2LCS	72	76	62	67			0
WG1184841-3LCSD	69	74	62	67			0
CB-03MS	61	73	67	95			0
CB-03MSD	59	69	72	129			0
WG1184858-1BLANK	72	72	83	82			0
WG1184858-2LCS	81	78	87	85			0
WG1184858-3LCSD	77	77	84	84			0

QC LIMITS
(30-150) TCX = 2,4,5,6-TETRACHLORO-M-XYLENE
(30-150) DCBP = DECACHLOROBIPHENYL

* Values outside of QC limits

FORM II NYTCL-8082

Matrix Spike
Form 3

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Client Sample ID	: CB-03	Matrix	: SOIL
Lab Sample ID	: L1849060-03	Analysis Date	: 12/04/18 08:03
Matrix Spike	: WG1184841-4	MS Analysis Date	: 12/04/18 08:16
Matrix Spike Dup	: WG1184841-5	MSD Analysis Date	: 12/04/18 08:29

		Matrix Spike Sample			Matrix Spike Duplicate					
Parameter	Sample Conc. (ug/kg)	Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R	Spike Added (ug/kg)	Spike Conc. (ug/kg)	%R	RPD	Recovery Limits	RPD Limit
Aroclor 1016	ND	1130	1620	143 Q	1170	1640	140	1	40-140	50

GC Organics Indentification Summary
Form 10
Multicomponent Analytes

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab Sample ID	: L1849060-04		
Client ID	: CB-04		
Date Analyzed (1)	: 12/04/18 08:55	Date Analyzed (2)	: 12/04/18 08:55
Instrument ID (1)	: PEST7	Instrument ID (2)	: PEST7
GC Column (1)	: CLP-Pesticide	GC Column (2)	: CLP-PesticideII

			RT Window			Mean	
Analyte	Peak	RT	From	To	Concentration	Concentration	%RPD
AROCLOR 1254	1	3.87	-0.05	0.05	117.		
	2	0.00	-0.05	0.05	0.		
COLUMN 1	3	4.39	-0.05	0.05	192.		
	4	4.60	-0.05	0.05	196.		
	5	0.00	-0.05	0.05	0.	168.	
	1	0.00	-0.05	0.05	0.		
	2	4.50	-0.05	0.05	192.		
COLUMN 2	3	4.85	-0.05	0.05	215.		
	4	5.02	-0.05	0.05	205.		
	5	0.00	-0.05	0.05	0.	204.	19
AROCLOR 1260	1	0.00	4.48	4.58	0.		
	2	0.00	4.69	4.79	0.		
COLUMN 1	3	5.21	5.16	5.26	95.4		
	4	5.43	5.38	5.48	120		
	5	5.63	5.57	5.67	147.	121.	
	1	0.00	4.94	5.04	0.		
	2	0.00	5.09	5.19	0.		
COLUMN 2	3	5.67	5.61	5.71	135.		
	4	5.84	5.78	5.88	235.		
	5	6.08	6.03	6.13	165.	178.	38
AROCLOR 1242	1	2.85	-0.05	0.05	26.3		
	2	3.17	-0.05	0.05	79.7		
COLUMN 1	3	3.26	-0.05	0.05	41.4		
	4	0.00	-0.05	0.05	0.		
	5	0.00	-0.05	0.05	0.	49.2	
	1	3.16	-0.05	0.05	26.7		
	2	3.52	-0.05	0.05	82.4		
COLUMN 2	3	3.62	-0.05	0.05	49.2		
	4	0.00	-0.05	0.05	0.		
	5	0.00	-0.05	0.05	0.	52.8	7

GC Organics Indentification Summary
Form 10
Multicomponent Analytes

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab Sample ID	: L1849060-06		
Client ID	: DUP-18		
Date Analyzed (1)	: 12/04/18 09:20	Date Analyzed (2)	: 12/04/18 09:20
Instrument ID (1)	: PEST7	Instrument ID (2)	: PEST7
GC Column (1)	: CLP-Pesticide	GC Column (2)	: CLP-PesticideII

			RT Window			Mean	
Analyte	Peak	RT	From	To	Concentration	Concentration	%RPD
AROCLOR 1254	1	3.87	-0.05	0.05	864.		
	2	0.00	-0.05	0.05	0.		
COLUMN 1	3	4.39	-0.05	0.05	1410		
	4	4.61	-0.05	0.05	1520		
	5	0.00	-0.05	0.05	0.	1270	
	1	0.00	-0.05	0.05	0.		
	2	4.50	-0.05	0.05	1450		
COLUMN 2	3	4.85	-0.05	0.05	1580		
	4	5.02	-0.05	0.05	1810		
	5	0.00	-0.05	0.05	0.	1620	24
AROCLOR 1260	1	0.00	4.48	4.58	0.		
	2	0.00	4.69	4.79	0.		
COLUMN 1	3	5.22	5.16	5.26	1000		
	4	5.44	5.38	5.48	885.		
	5	5.64	5.57	5.67	1130	1010	
	1	0.00	4.94	5.04	0.		
	2	0.00	5.09	5.19	0.		
COLUMN 2	3	5.67	5.61	5.71	960		
	4	5.84	5.78	5.88	1660		
	5	6.09	6.03	6.13	1340	1320	27
AROCLOR 1242	1	2.85	-0.05	0.05	417.		
	2	3.17	-0.05	0.05	917.		
COLUMN 1	3	3.26	-0.05	0.05	637.		
	4	0.00	-0.05	0.05	0.		
	5	0.00	-0.05	0.05	0.	657.	
	1	3.16	-0.05	0.05	339.		
	2	3.52	-0.05	0.05	940		
COLUMN 2	3	3.62	-0.05	0.05	706.		
	4	0.00	-0.05	0.05	0.		
	5	0.00	-0.05	0.05	0.	662.	1

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QA/QC Review of 8081 Pesticide Data
for Alpha Analytical Labs
SDG Number: L1849060

4 Soil Samples and 1 Field Duplicate
Collected November 30, 2018

Prepared by: Donald Anné
December 17, 2018

Holding Times: The samples were extracted and analyzed within USEPA SW-846 holding times.

Blanks: The analysis of the method blank reported target pesticides as not detected.

Surrogate Recovery: The surrogate recoveries were within QC limits for the soil samples on both columns.

Matrix Spike/Matrix Spike Duplicate: The relative percent differences for target pesticides were below the allowable maximum and the percent recoveries were within QC limits for soil MS/MSD sample CB-03.

Laboratory Control Sample: The relative percent differences for target pesticides were below the allowable maximums and the percent recoveries were within QC limits for soil samples WG1184846-2 and WG118486-3.

Field Duplicates: The relative percent difference for endrin was below the allowable maximum (35%) for soil field duplicate pair CB-03/DUP-18 (attached table), as required.

Initial Calibration: The %RSDs were below the allowable maximum (20%) or the correlation coefficients were above the allowable minimum (0.995) for applicable pesticides on both columns, as required.

Continuing Calibration: The %Ds for target pesticides were below the allowable maximum (20%), as required.

DDT/Endrin Breakdown Check: The percent breakdowns were below the allowable maximum (20%) for 4,4'-DDT and endrin, as required.

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Method 8081 Pesticide Data
Lab Number: L1849060

Pesticide Identification Summary for Single Component Analytes: Checked surrogates and pesticides were within quantitation limits.

The RPDs for endrin in samples CB-02 and CB-04 were above the allowable maximum (25%), but not above 70% and the lower results were reported. The results for endrin should be considered estimated, biased low (J-) in samples CB-02 and CB-04.

The RPD for endrin in sample CB-01 was above the allowable maximum (25%), but not above 70% and the higher result was reported. The results for endrin should be considered estimated, biased high (J+) in sample CB-01.

Pesticide Identification Summary for Multi-Component Analytes: The analyses of soil samples reported target multi-component pesticides as not detected.

Pesticides

Calculations for Field Duplicate Relative Percent Difference (RPD)
SDG No. L1849060

S1= CB-03 **S2=** DUP-18

Analyte	S1	S2	RPD (%)
Endrin	16.3	16.9	4%

* RPD is above the allowable maximum 35%.

Results are in units of ug/kg.

Bold numbers were values that below the CRQL.
ND - Not detected.
NC - Not calculated, both results must be above the CRDL for valid RPDs to be calculated.

GC Organics Indentification Summary
Form 10
Single Component Analytes

Client		: CHA Companies	Lab Number		: L1849060
Project Name		: 700 SMITH BLVD	Project Number		: 29852.1202.44000
Lab Sample ID		: L1849060-02			
Client ID		: CB-02			
Date Analyzed	(1)	: 12/06/18 10:33	Date Analyzed	(2)	: 12/06/18 10:33
Instrument ID	(1)	: PEST18	Instrument ID	(2)	: PEST18
GC Column	(1)	: CLPPesticides	GC Column	(2)	: CLPPesticidesII

			RT Window			
Analyte	Col	RT	From	To	Concentraion	RPD
Endrin	1	4.52	4.46	4.56	30	
	2	5.02	4.97	5.07	48.3	47

GC Organics Indentification Summary
Form 10
Single Component Analytes

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab Sample ID	: L1849060-04		
Client ID	: CB-04		
Date Analyzed (1)	: 12/06/18 10:46	Date Analyzed (2)	: 12/06/18 10:46
Instrument ID (1)	: PEST18	Instrument ID (2)	: PEST18
GC Column (1)	: CLPPesticides	GC Column (2)	: CLPPesticidesII

			RT Window			
Analyte	Col	RT	From	To	Concentraion	RPD
Endrin	1	4.52	4.46	4.56	6.55	
	2	5.02	4.97	5.07	3.15	70

GC Organics Indentification Summary
Form 10
Single Component Analytes

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab Sample ID	: L1849060-05		
Client ID	: CB-01		
Date Analyzed (1)	: 12/06/18 10:59	Date Analyzed (2)	: 12/06/18 10:59
Instrument ID (1)	: PEST18	Instrument ID (2)	: PEST18
GC Column (1)	: CLPPesticides	GC Column (2)	: CLPPesticidesII

			RT Window			
Analyte	Col	RT	From	To	Concentraion	RPD
Endrin	1	4.51	4.46	4.56	37.2	
	2	5.02	4.97	5.07	51.6	32

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QA/QC Review of Metals Data
for Alpha Analytical Labs
SDG Number: L1849060

4 Soil Samples and 1 Field Duplicate
Collected November 30, 2018

Prepared by: Donald Anné
December 17, 2018

Holding Times: The samples were analyzed within USEPA SW-846 holding times.

Initial and Continuing Calibration Verification: The percent recoveries for target metals were within control limits (90-110% for all metals except Hg, 80-120% for Hg).

Blanks: The analyses of initial and continuing calibration and method blanks reported target metals as below the reporting limits, as required.

ICP Interference Check Sample: The percent recoveries for applicable metals were within control limits (80-120%).

Spike Sample Recovery: One of two percent recoveries (%Rs) for nickel was above control limits (75-125%) for soil MS/MSD sample CB-03. Positive results for nickel should be considered estimated, biased high (J+) in associated soil samples.

Two of two %Rs for barium and 1 of 2 %Rs for cadmium and thallium were below control limits (75-125%), but not below 10% for soil MS/MSD sample CB-03. Positive results for these metals should be considered estimated, biased low (J-) and "not detected" estimated (UJ) in associated soil samples.

Laboratory Duplicates: The relative percent differences for calcium, chromium, and copper were above the allowable maximum (35%) for soil MS/MSD sample CB-03. Positive results for these metals should be considered estimated (J) in associated soil samples.

Field Duplicate: The relative percent difference for barium was above the allowable maximum (35%) for soil field duplicate pair CB-03/DUP-18 (attached table). Results for barium should be considered estimated (J) in samples CB-03 and DUP-18.

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TAL Metals Data
Lab Number: L1849060

Laboratory Control Sample: The percent recoveries for target metals were within control limits for soil samples WG1186031-2 and WG1186191-2.

ICP Serial Dilution: The %Ds for applicable metals were below the allowable maximum (15%) for soil serial dilution sample CB-03, as required.

Percent Soilds: The percent solids for sample DUP-18 was below 50%. Positive results for metals should be considered considered estimated (J) in sample DUP-18.

TAL Metals

Calculations for Field Duplicate Relative Percent Difference (RPD)
SDG No. L1849060

S1= CB-03 **S2=** DUP-18

Analyte	S1	S2	RPD (%)	
aluminum	7340	6870	7%	
antimony	17.4	18.3	5%	
arsenic	13.5	12.3	9%	
barium	233	162	36%	*
beryllium	**0.279**	**0.396**	NC	
cadmium	10.3	8.37	21%	
calcium	33600	30200	11%	
chromium	189	172	9%	
cobalt	11.2	11.2	0%	
copper	2700	3270	19%	
iron	39300	37400	5%	
lead	1340	1250	7%	
magnesium	5310	4960	7%	
manganese	318	312	2%	
mercury	2.40	2.57	7%	
nickel	152	150	1%	
potassium	650	532	20%	
selenium	**1.01**	**1.11**	NC	
silver	14.0	14.1	1%	
sodium	**161**	**147**	NC	
thallium	ND	ND	NC	
vanadium	37.9	34.9	8%	
zinc	1760	1750	1%	

* RPD is above the allowable maximum 35%.

All results are in units of mg/kg.

Bold numbers were values that below the CRDL.
ND - Not detected.
NC - Not calculated, both results must be above the CRDL for valid RPDs to be calculated.

Form 5a
Matrix Spike

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Client Sample ID	: CB-03	Matrix	: SOIL
Lab Sample ID	: L1849060-03		
Matrix Spike	: WG1186031-3	MS Analysis Date	: 12/05/18 23:54
Matrix Spike Dup	: WG1186031-4	MSD Analysis Date	: 12/05/18 23:59

		Matrix Spike Sample				Matrix Spike Duplicate						
Parameter	Sample Conc. (mg/kg)	Spike Added (mg/kg)	Spike Conc. (mg/kg)	%R		Spike Added (mg/kg)	Spike Conc. (mg/kg)	%R		RPD	Recovery Limits	RPD Limit
Aluminum, Total	7340	314	8040	NA		313	8780	NA		9	75-125	20
Antimony, Total	17.4	78.5	85.3	86		78.2	86.1	88		1	75-125	20
Arsenic, Total	13.5	18.8	29.4	84		18.8	28.8	82		2	75-125	20
Barium, Total	233	314	444	67		313	460	73		4	75-125	20
Beryllium, Total	0.279J	7.85	7.36	94		7.82	7.11	91		3	75-125	20
Cadmium, Total	10.3	8	16.7	80		7.97	15.7	68		6	75-125	20
Calcium, Total	33600	1570	29400	NA		1560	47300	NA		47	75-125	20
Chromium, Total	189	31.4	365	NA		31.3	206	NA		56	75-125	20
Cobalt, Total	11.2	78.5	79.8	87		78.2	77.7	85		3	75-125	20
Copper, Total	2700	39.2	2000	NA		39.1	4790	NA		82	75-125	20
Iron, Total	39300	157	34700	NA		156	37000	NA		6	75-125	20
Lead, Total	1340	80	1190	NA		79.7	1180	NA		1	75-125	20
Magnesium, Total	5310	1570	6620	83		1560	7070	112		7	75-125	20
Manganese, Total	318	78.5	369	NA		78.2	434	NA		16	75-125	20
Nickel, Total	152	78.5	256	132	Q	78.2	216	82		17	75-125	20
Potassium, Total	650	1570	2020	87		1560	2010	87		0	75-125	20
Selenium, Total	1.01J	18.8	17.3	92		18.8	16.7	89		4	75-125	20
Silver, Total	14.0	47.1	63.4	105		46.9	62.1	102		2	75-125	20
Sodium, Total	161J	1570	1640	104		1560	1650	106		1	75-125	20
Thallium, Total	ND	18.8	14.6	78		18.8	13.5	72		8	75-125	20
Vanadium, Total	37.9	78.5	110	92		78.2	109	91		1	75-125	20
Zinc, Total	1760	78.5	2340	NA		78.2	1750	NA		29	75-125	20

NA - Not applicable, the sample concentration was greater than 4 times the spiking level; therefore, valid percent recoveries could not be calculated.

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QA/QC Review of Total and Amenable Cyanide
Data for Alpha Analytical Labs
SDG Number: L1849060

4 Soil Samples and 1 field duplicate
Collected November 30, 2018

Prepared by: Donald Anné
December 17, 2018

Holding Times: Samples were analyzed within USEPA SW 846 holding times.

Blanks: The analysis of the method blank reported cyanide as not detected.

Initial Calibration: The correlation coefficient for cyanide was above the allowable minimum (0.995), as required.

Spike Sample Recovery: The percent recoveries for total cyanide were within control limits for soil MS/MSD sample CB-03.

Laboratory Duplicates: The relative percent difference for total cyanide was below the allowable maximum (35%) for soil MS/MSD sample SOIL-SC001 (6'-8'), as required.

Field Duplicate: The analyses of soil field duplicate pair CB-03/DUP-18 reported total and amenable cyanide as either not detected or below the lowest standard; therefore, valid relative percent differences could not be calculated. The analyses for the field duplicate pair were acceptable.

Laboratory Control Sample: The percent recovery (%R)for amenable cyanide was within QC limits for soil sample WG1184980-2

The relative percent difference for total cyanide was above the allowable maximum and 1 of 2 %Rs was below QC limits, but not below 10% for soil samples WG1184981-2 and WG1184981-3. Positive results for total cyanide should be considered estimated, biased low (J-) and "not detected" results estimated (UJ) in associated soil samples.

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Form 7
Laboratory Control Sample

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Client Sample ID	: NA	Matrix	: SOIL
Lab Sample ID	: WG1184981-2	LCS Analysis Date	: 12/04/18 13:38
Dup Sample ID	: WG1184981-3	LCSD Analysis Date	: 12/04/18 13:39

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (mg/kg)	Found (mg/kg)	%R	True (mg/kg)	Found (mg/kg)	%R	RPD	Recovery Limits	RPD Limit
Cyanide, Total	94.3	50.0	53.	94.3	82	86.	49 Q	80-120	35

Form 1
VOA

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-02	Date Collected	: 11/30/18 09:05
Client ID	: CB-02	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/06/18 15:39
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: MKS
Lab File ID	: V04181206A21	Instrument ID	: VOA104
Sample Amount	: 4.6 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 66
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/Kg Results	RL	MDL	Qualifier
95-50-1	1,2-Dichlorobenzene	ND	3.3	0.24	U
541-73-1	1,3-Dichlorobenzene	ND	3.3	0.24	U
106-46-7	1,4-Dichlorobenzene	ND	3.3	0.28	U
1634-04-4	Methyl tert butyl ether	ND	3.3	0.33	U
179601-23-1	p/m-Xylene	ND	3.3	0.92	U
95-47-6	o-Xylene	ND	1.6	0.48	U
156-59-2	cis-1,2-Dichloroethene	ND	1.6	0.29	U
100-42-5	Styrene	ND	1.6	0.32	U
75-71-8	Dichlorodifluoromethane	ND	16	1.5	U
67-64-1	Acetone	ND	16	7.9	U
75-15-0	Carbon disulfide	ND	16	7.5	U
78-93-3	2-Butanone	ND	16	3.6	U
108-10-1	4-Methyl-2-pentanone	ND	16	2.1	U
591-78-6	2-Hexanone	ND	16	1.9	U
74-97-5	Bromochloromethane	ND	3.3	0.34	U
106-93-4	1,2-Dibromoethane	ND	1.6	0.46	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.9	1.6	U
98-82-8	Isopropylbenzene	ND	1.6	0.18	U
87-61-6	1,2,3-Trichlorobenzene	ND	3.3	0.53	U
120-82-1	1,2,4-Trichlorobenzene	ND	3.3	0.45	U
79-20-9	Methyl Acetate	ND	6.6	1.6	U
110-82-7	Cyclohexane	ND	16	0.90	U
123-91-1	1,4-Dioxane	ND	160	58.	U
76-13-1	Freon-113	ND	6.6	1.1	U
108-87-2	Methyl cyclohexane	ND	6.6	0.99	U

Form 1
VOA

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-02	Date Collected	: 11/30/18 09:05
Client ID	: CB-02	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/06/18 15:39
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: MKS
Lab File ID	: V04181206A21	Instrument ID	: VOA104
Sample Amount	: 4.6 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 66
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
95-50-1	1,2-Dichlorobenzene	ND	3.3	0.24	U
541-73-1	1,3-Dichlorobenzene	ND	3.3	0.24	U
106-46-7	1,4-Dichlorobenzene	ND	3.3	0.28	U
1634-04-4	Methyl tert butyl ether	ND	3.3	0.33	U
179601-23-1	p/m-Xylene	ND	3.3	0.92	U
95-47-6	o-Xylene	ND	1.6	0.48	U
156-59-2	cis-1,2-Dichloroethene	ND	1.6	0.29	U
100-42-5	Styrene	ND	1.6	0.32	U
75-71-8	Dichlorodifluoromethane	ND	16	1.5	U
67-64-1	Acetone	ND	16	7.9	U
75-15-0	Carbon disulfide	ND	16	7.5	U
78-93-3	2-Butanone	ND	16	3.6	U
108-10-1	4-Methyl-2-pentanone	ND	16	2.1	U
591-78-6	2-Hexanone	ND	16	1.9	U
74-97-5	Bromochloromethane	ND	3.3	0.34	U
106-93-4	1,2-Dibromoethane	ND	1.6	0.46	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.9	1.6	U
98-82-8	Isopropylbenzene	ND	1.6	0.18	U
87-61-6	1,2,3-Trichlorobenzene	ND	3.3	0.53	U
120-82-1	1,2,4-Trichlorobenzene	ND	3.3	0.45	U
79-20-9	Methyl Acetate	ND	6.6	1.6	U
110-82-7	Cyclohexane	ND	16	0.90	U
123-91-1	1,4-Dioxane	ND	160	58.	U
76-13-1	Freon-113	ND	6.6	1.1	U
108-87-2	Methyl cyclohexane	ND	6.6	0.99	U

Form 1
VOA

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-03	Date Collected	: 11/30/18 09:25
Client ID	: CB-03	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/06/18 17:13
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: MV
Lab File ID	: V11181206N07	Instrument ID	: VOA111
Sample Amount	: 4.9 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 50
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/Kg Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	10	4.6	U UJ
75-34-3	1,1-Dichloroethane	ND	2.0	0.29	U UJ
67-66-3	Chloroform	ND	3.0	0.28	U UJ
56-23-5	Carbon tetrachloride	ND	2.0	0.47	U UJ
78-87-5	1,2-Dichloropropane	ND	2.0	0.25	U UJ
124-48-1	Dibromochloromethane	ND	2.0	0.28	U UJ
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.54	U UJ
127-18-4	Tetrachloroethene	ND	1.0	0.40	U UJ
108-90-7	Chlorobenzene	ND	1.0	0.26	U UJ
75-69-4	Trichlorofluoromethane	ND	8.1	1.4	U UJ
107-06-2	1,2-Dichloroethane	ND	2.0	0.52	U UJ
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.34	U UJ
75-27-4	Bromodichloromethane	ND	1.0	0.22	U UJ
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.55	U UJ
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.32	U UJ
75-25-2	Bromoform	ND	8.1	0.50	U UJ
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.34	U UJ
71-43-2	Benzene	ND	1.0	0.34	U UJ
108-88-3	Toluene	4.0	2.0	1.1	J -
100-41-4	Ethylbenzene	ND	2.0	0.29	U UJ
74-87-3	Chloromethane	ND	8.1	1.9	U
74-83-9	Bromomethane	ND	4.1	1.2	U
75-01-4	Vinyl chloride	ND	2.0	0.68	U
75-00-3	Chloroethane	ND	4.1	0.92	U
75-35-4	1,1-Dichloroethene	ND	2.0	0.48	U UJ
156-60-5	trans-1,2-Dichloroethene	ND	3.0	0.28	U UJ
79-01-6	Trichloroethene	ND	1.0	0.28	U UJ

Form 1
VOA

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-03	Date Collected	: 11/30/18 09:25
Client ID	: CB-03	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/06/18 17:13
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: MV
Lab File ID	: V11181206N07	Instrument ID	: VOA111
Sample Amount	: 4.9 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 50
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/Kg Results	RL	MDL	Qualifier
95-50-1	1,2-Dichlorobenzene	ND	4.1	0.29	U UJ
541-73-1	1,3-Dichlorobenzene	ND	4.1	0.30	U UJ
106-46-7	1,4-Dichlorobenzene	ND	4.1	0.35	U UJ
1634-04-4	Methyl tert butyl ether	ND	4.1	0.41	U
179601-23-1	p/m-Xylene	ND	4.1	1.1	U UJ
95-47-6	o-Xylene	ND	2.0	0.59	U UJ
156-59-2	cis-1,2-Dichloroethene	ND	2.0	0.36	U UJ
100-42-5	Styrene	ND	2.0	0.40	U UJ
75-71-8	Dichlorodifluoromethane	ND	20	1.8	U
67-64-1	Acetone	100	20	9.8	J-
75-15-0	Carbon disulfide	ND	20	9.2	U UJ
78-93-3	2-Butanone	23	20	4.5	J-
108-10-1	4-Methyl-2-pentanone	ND	20	2.6	U UJ
591-78-6	2-Hexanone	ND	20	2.4	U UJ
74-97-5	Bromochloromethane	ND	4.1	0.42	U UJ
106-93-4	1,2-Dibromoethane	ND	2.0	0.57	U UJ
96-12-8	1,2-Dibromo-3-chloropropane	ND	6.1	2.0	U UJ
98-82-8	Isopropylbenzene	ND	2.0	0.22	U UJ
87-61-6	1,2,3-Trichlorobenzene	ND	4.1	0.65	U R
120-82-1	1,2,4-Trichlorobenzene	ND	4.1	0.55	U R
79-20-9	Methyl Acetate	ND	8.1	1.9	U
110-82-7	Cyclohexane	ND	20	1.1	U UJ
123-91-1	1,4-Dioxane	ND	200	71.	U
76-13-1	Freon-113	ND	8.1	1.4	U UJ
108-87-2	Methyl cyclohexane	ND	8.1	1.2	U UJ

Form 1
VOA

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-04	Date Collected	: 11/30/18 09:45
Client ID	: CB-04	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/06/18 16:05
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: MKS
Lab File ID	: V04181206A22	Instrument ID	: VOA104
Sample Amount	: 5.9 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 86
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	4.9	2.2	U
75-34-3	1,1-Dichloroethane	ND	0.98	0.14	U
67-66-3	Chloroform	ND	1.5	0.14	U
56-23-5	Carbon tetrachloride	ND	0.98	0.23	U
78-87-5	1,2-Dichloropropane	ND	0.98	0.12	U
124-48-1	Dibromochloromethane	ND	0.98	0.14	U
79-00-5	1,1,2-Trichloroethane	ND	0.98	0.26	U
127-18-4	Tetrachloroethene	ND	0.49	0.19	U
108-90-7	Chlorobenzene	ND	0.49	0.12	U
75-69-4	Trichlorofluoromethane	ND	3.9	0.68	U
107-06-2	1,2-Dichloroethane	ND	0.98	0.25	U
71-55-6	1,1,1-Trichloroethane	ND	0.49	0.16	U
75-27-4	Bromodichloromethane	ND	0.49	0.11	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.98	0.27	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.49	0.16	U
75-25-2	Bromoform	ND	3.9	0.24	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.49	0.16	U
71-43-2	Benzene	ND	0.49	0.16	U
108-88-3	Toluene	ND	0.98	0.53	U
100-41-4	Ethylbenzene	ND	0.98	0.14	U
74-87-3	Chloromethane	ND	3.9	0.92	U
74-83-9	Bromomethane	ND	2.0	0.57	U
75-01-4	Vinyl chloride	ND	0.98	0.33	U
75-00-3	Chloroethane	ND	2.0	0.44	U
75-35-4	1,1-Dichloroethene	ND	0.98	0.23	U
156-60-5	trans-1,2-Dichloroethene	ND	1.5	0.13	U
79-01-6	Trichloroethene	ND	0.49	0.13	U

Form 1
VOA

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-04	Date Collected	: 11/30/18 09:45
Client ID	: CB-04	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/06/18 16:05
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: MKS
Lab File ID	: V04181206A22	Instrument ID	: VOA104
Sample Amount	: 5.9 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 86
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
95-50-1	1,2-Dichlorobenzene	ND	2.0	0.14	U
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.14	U
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.17	U
1634-04-4	Methyl tert butyl ether	ND	2.0	0.20	U
179601-23-1	p/m-Xylene	ND	2.0	0.55	U
95-47-6	o-Xylene	ND	0.98	0.29	U
156-59-2	cis-1,2-Dichloroethene	ND	0.98	0.17	U
100-42-5	Styrene	ND	0.98	0.19	U
75-71-8	Dichlorodifluoromethane	ND	9.8	0.90	U
67-64-1	Acetone	ND	9.8	4.7	U
75-15-0	Carbon disulfide	ND	9.8	4.5	U
78-93-3	2-Butanone	ND	9.8	2.2	U
108-10-1	4-Methyl-2-pentanone	ND	9.8	1.2	U
591-78-6	2-Hexanone	ND	9.8	1.2	U
74-97-5	Bromochloromethane	ND	2.0	0.20	U
106-93-4	1,2-Dibromoethane	ND	0.98	0.27	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.0	0.98	U
98-82-8	Isopropylbenzene	ND	0.98	0.11	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.32	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.27	U
79-20-9	Methyl Acetate	ND	3.9	0.93	U
110-82-7	Cyclohexane	ND	9.8	0.54	U
123-91-1	1,4-Dioxane	ND	98	34.	U
76-13-1	Freon-113	ND	3.9	0.68	U
108-87-2	Methyl cyclohexane	ND	3.9	0.59	U

Form 1
VOA

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-05	Date Collected	: 11/30/18 10:10
Client ID	: CB-01	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/06/18 16:32
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: MKS
Lab File ID	: V04181206A23	Instrument ID	: VOA104
Sample Amount	: 4.3 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 73
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	8.0	3.7	U
75-34-3	1,1-Dichloroethane	ND	1.6	0.23	U
67-66-3	Chloroform	ND	2.4	0.22	U
56-23-5	Carbon tetrachloride	ND	1.6	0.37	U
78-87-5	1,2-Dichloropropane	ND	1.6	0.20	U
124-48-1	Dibromochloromethane	ND	1.6	0.22	U
79-00-5	1,1,2-Trichloroethane	ND	1.6	0.43	U
127-18-4	Tetrachloroethene	ND	0.80	0.32	U
108-90-7	Chlorobenzene	ND	0.80	0.20	U
75-69-4	Trichlorofluoromethane	ND	6.4	1.1	U
107-06-2	1,2-Dichloroethane	ND	1.6	0.41	U
71-55-6	1,1,1-Trichloroethane	ND	0.80	0.27	U
75-27-4	Bromodichloromethane	ND	0.80	0.18	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.6	0.44	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.80	0.25	U
75-25-2	Bromoform	ND	6.4	0.40	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.80	0.27	U
71-43-2	Benzene	ND	0.80	0.27	U
108-88-3	Toluene	ND	1.6	0.87	U
100-41-4	Ethylbenzene	ND	1.6	0.23	U
74-87-3	Chloromethane	ND	6.4	1.5	U
74-83-9	Bromomethane	ND	3.2	0.93	U
75-01-4	Vinyl chloride	ND	1.6	0.54	U
75-00-3	Chloroethane	ND	3.2	0.73	U
75-35-4	1,1-Dichloroethene	ND	1.6	0.38	U
156-60-5	trans-1,2-Dichloroethene	ND	2.4	0.22	U
79-01-6	Trichloroethene	ND	0.80	0.22	U

Form 1
VOA

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-05	Date Collected	: 11/30/18 10:10
Client ID	: CB-01	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/06/18 16:32
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: MKS
Lab File ID	: V04181206A23	Instrument ID	: VOA104
Sample Amount	: 4.3 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 73
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
95-50-1	1,2-Dichlorobenzene	ND	3.2	0.23	U
541-73-1	1,3-Dichlorobenzene	ND	3.2	0.24	U
106-46-7	1,4-Dichlorobenzene	ND	3.2	0.27	U
1634-04-4	Methyl tert butyl ether	ND	3.2	0.32	U
179601-23-1	p/m-Xylene	ND	3.2	0.90	U
95-47-6	o-Xylene	ND	1.6	0.47	U
156-59-2	cis-1,2-Dichloroethene	ND	1.6	0.28	U
100-42-5	Styrene	ND	1.6	0.32	U
75-71-8	Dichlorodifluoromethane	ND	16	1.5	U
67-64-1	Acetone	ND	16	7.7	U
75-15-0	Carbon disulfide	ND	16	7.3	U
78-93-3	2-Butanone	ND	16	3.6	U
108-10-1	4-Methyl-2-pentanone	ND	16	2.0	U
591-78-6	2-Hexanone	ND	16	1.9	U
74-97-5	Bromochloromethane	ND	3.2	0.33	U
106-93-4	1,2-Dibromoethane	ND	1.6	0.45	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.8	1.6	U
98-82-8	Isopropylbenzene	ND	1.6	0.18	U
87-61-6	1,2,3-Trichlorobenzene	ND	3.2	0.52	U
120-82-1	1,2,4-Trichlorobenzene	ND	3.2	0.44	U
79-20-9	Methyl Acetate	ND	6.4	1.5	U
110-82-7	Cyclohexane	ND	16	0.87	U
123-91-1	1,4-Dioxane	ND	160	56.	U
76-13-1	Freon-113	ND	6.4	1.1	U
108-87-2	Methyl cyclohexane	ND	6.4	0.97	U

Form 1
VOA

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-06	Date Collected	: 11/30/18 12:00
Client ID	: DUP-18	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/06/18 16:59
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: MKS
Lab File ID	: V04181206A24	Instrument ID	: VOA104
Sample Amount	: 4.4 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 49
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/Kg Results	RL	MDL	Qualifier
75-09-2	Methylene chloride	ND	12	5.4	U
75-34-3	1,1-Dichloroethane	ND	2.4	0.34	U
67-66-3	Chloroform	ND	3.5	0.33	U
56-23-5	Carbon tetrachloride	ND	2.4	0.54	U
78-87-5	1,2-Dichloropropane	ND	2.4	0.29	U
124-48-1	Dibromochloromethane	ND	2.4	0.33	U
79-00-5	1,1,2-Trichloroethane	ND	2.4	0.63	U
127-18-4	Tetrachloroethene	ND	1.2	0.46	U
108-90-7	Chlorobenzene	ND	1.2	0.30	U
75-69-4	Trichlorofluoromethane	ND	9.4	1.6	U
107-06-2	1,2-Dichloroethane	ND	2.4	0.60	U
71-55-6	1,1,1-Trichloroethane	ND	1.2	0.39	U
75-27-4	Bromodichloromethane	ND	1.2	0.26	U
10061-02-6	trans-1,3-Dichloropropene	ND	2.4	0.64	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.2	0.37	U
75-25-2	Bromoform	ND	9.4	0.58	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.2	0.39	U
71-43-2	Benzene	ND	1.2	0.39	U
108-88-3	Toluene	6.0	2.4	1.3	J
100-41-4	Ethylbenzene	0.39	2.4	0.33	J
74-87-3	Chloromethane	ND	9.4	2.2	U
74-83-9	Bromomethane	ND	4.7	1.4	U
75-01-4	Vinyl chloride	ND	2.4	0.79	U
75-00-3	Chloroethane	ND	4.7	1.1	U
75-35-4	1,1-Dichloroethene	ND	2.4	0.56	U
156-60-5	trans-1,2-Dichloroethene	ND	3.5	0.32	U
79-01-6	Trichloroethene	ND	1.2	0.32	U

Form 1
VOA

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-06	Date Collected	: 11/30/18 12:00
Client ID	: DUP-18	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/06/18 16:59
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: MKS
Lab File ID	: V04181206A24	Instrument ID	: VOA104
Sample Amount	: 4.4 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 49
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
95-50-1	1,2-Dichlorobenzene	ND	4.7	0.34	U
541-73-1	1,3-Dichlorobenzene	ND	4.7	0.35	U
106-46-7	1,4-Dichlorobenzene	ND	4.7	0.40	U
1634-04-4	Methyl tert butyl ether	ND	4.7	0.47	U
179601-23-1	p/m-Xylene	ND	4.7	1.3	U
95-47-6	o-Xylene	ND	2.4	0.68	U
156-59-2	cis-1,2-Dichloroethene	ND	2.4	0.41	U
100-42-5	Styrene	ND	2.4	0.46	U
75-71-8	Dichlorodifluoromethane	ND	24	2.2	U
67-64-1	Acetone	140	24	11.	
75-15-0	Carbon disulfide	ND	24	11.	U
78-93-3	2-Butanone	35	24	5.2	J
108-10-1	4-Methyl-2-pentanone	ND	24	3.0	U
591-78-6	2-Hexanone	ND	24	2.8	U
74-97-5	Bromochloromethane	ND	4.7	0.48	U
106-93-4	1,2-Dibromoethane	ND	2.4	0.66	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	7.1	2.4	U
98-82-8	Isopropylbenzene	ND	2.4	0.26	U
87-61-6	1,2,3-Trichlorobenzene	ND	4.7	0.76	U
120-82-1	1,2,4-Trichlorobenzene	ND	4.7	0.64	U
79-20-9	Methyl Acetate	ND	9.4	2.2	U
110-82-7	Cyclohexane	ND	24	1.3	U
123-91-1	1,4-Dioxane	ND	240	83.	U
76-13-1	Freon-113	ND	9.4	1.6	U
108-87-2	Methyl cyclohexane	ND	9.4	1.4	U

Form 1
SemiVolatile Organics

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-02	Date Collected	: 11/30/18 09:05
Client ID	: CB-02	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/07/18 00:35
Sample Matrix	: SOIL	Date Extracted	: 12/03/18
Analytical Method	: 1,8270D	Dilution Factor	: 1
Lab File ID	: 49060-02	Analyst	: RC
Sample Amount	: 30.42 g	Instrument ID	: SV112
Extraction Method	: EPA 3546	GC Column	: RTX5-MS
Extract Volume	: 1000 uL	%Solids	: 66
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
83-32-9	Acenaphthene	140	200	26.	J
118-74-1	Hexachlorobenzene	ND	150	28.	U
111-44-4	Bis(2-chloroethyl)ether	ND	220	34.	U
91-58-7	2-Chloronaphthalene	ND	250	24.	U
91-94-1	3,3'-Dichlorobenzidine	ND	250	66.	U
121-14-2	2,4-Dinitrotoluene	ND	250	50.	U
606-20-2	2,6-Dinitrotoluene	ND	250	42.	U
206-44-0	Fluoranthene	2300	150	28.	
7005-72-3	4-Chlorophenyl phenyl ether	ND	250	26.	U
101-55-3	4-Bromophenyl phenyl ether	ND	250	38.	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	300	42.	U
111-91-1	Bis(2-chloroethoxy)methane	ND	270	25.	U
87-68-3	Hexachlorobutadiene	ND	250	36.	U
77-47-4	Hexachlorocyclopentadiene	ND	710	220	U
67-72-1	Hexachloroethane	ND	200	40.	U
78-59-1	Isophorone	ND	220	32.	U
91-20-3	Naphthalene	300	250	30.	
98-95-3	Nitrobenzene	ND	220	37.	U
86-30-6	NDPA/DPA	38	200	28.	J
621-64-7	n-Nitrosodi-n-propylamine	ND	250	38.	U
117-81-7	Bis(2-ethylhexyl)phthalate	20000	250	86.	E J
85-68-7	Butyl benzyl phthalate	980	250	62.	
84-74-2	Di-n-butylphthalate	670	250	47.	
117-84-0	Di-n-octylphthalate	480	250	84.	

Form 1
SemiVolatile Organics

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-02	Date Collected	: 11/30/18 09:05
Client ID	: CB-02	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/07/18 00:35
Sample Matrix	: SOIL	Date Extracted	: 12/03/18
Analytical Method	: 1,8270D	Dilution Factor	: 1
Lab File ID	: 49060-02	Analyst	: RC
Sample Amount	: 30.42 g	Instrument ID	: SV112
Extraction Method	: EPA 3546	GC Column	: RTX5-MS
Extract Volume	: 1000 uL	%Solids	: 66
GPC Cleanup	: N	Injection Volume	: 1 uL

CAS NO.	Parameter	ug/Kg Results	RL	MDL	Qualifier
84-66-2	Diethyl phthalate	ND	250	23.	U
131-11-3	Dimethyl phthalate	390	250	52.	
56-55-3	Benzo(a)anthracene	1300	150	28.	
50-32-8	Benzo(a)pyrene	1500	200	60.	
205-99-2	Benzo(b)fluoranthene	2100	150	42.	
207-08-9	Benzo(k)fluoranthene	700	150	40.	
218-01-9	Chrysene	1300	150	26.	
208-96-8	Acenaphthylene	260	200	38.	
120-12-7	Anthracene	540	150	48.	
191-24-2	Benzo(ghi)perylene	1400	200	29.	
86-73-7	Fluorene	180	250	24.	J
85-01-8	Phenanthrene	1400	150	30.	
53-70-3	Dibenzo(a,h)anthracene	290	150	29.	
193-39-5	Indeno(1,2,3-cd)pyrene	1400	200	34.	
129-00-0	Pyrene	2000	150	25.	
92-52-4	Biphenyl	66	560	58.	J
106-47-8	4-Chloroaniline	ND	250	45.	U
88-74-4	2-Nitroaniline	ND	250	48.	U
99-09-2	3-Nitroaniline	ND	250	47.	U
100-01-6	4-Nitroaniline	ND	250	100	U
132-64-9	Dibenzofuran	110	250	23.	J
91-57-6	2-Methylnaphthalene	340	300	30.	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	250	26.	U
98-86-2	Acetophenone	240	250	31.	J

Form 1
SemiVolatile Organics

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-02	Date Collected	: 11/30/18 09:05
Client ID	: CB-02	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/07/18 00:35
Sample Matrix	: SOIL	Date Extracted	: 12/03/18
Analytical Method	: 1,8270D	Dilution Factor	: 1
Lab File ID	: 49060-02	Analyst	: RC
Sample Amount	: 30.42 g	Instrument ID	: SV112
Extraction Method	: EPA 3546	GC Column	: RTX5-MS
Extract Volume	: 1000 uL	%Solids	: 66
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
88-06-2	2,4,6-Trichlorophenol	ND	150	47.	U
59-50-7	p-Chloro-m-cresol	ND	250	37.	U
95-57-8	2-Chlorophenol	ND	250	29.	U
120-83-2	2,4-Dichlorophenol	ND	220	40.	U
105-67-9	2,4-Dimethylphenol	ND	250	82.	U
88-75-5	2-Nitrophenol	ND	540	93.	U
100-02-7	4-Nitrophenol	ND	350	100	U
51-28-5	2,4-Dinitrophenol	ND	1200	120	U
534-52-1	4,6-Dinitro-o-cresol	ND	640	120	U
87-86-5	Pentachlorophenol	ND	200	54.	U
108-95-2	Phenol	160	250	37.	J
95-48-7	2-Methylphenol	ND	250	38.	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	88	360	39.	J
95-95-4	2,4,5-Trichlorophenol	ND	250	47.	U
86-74-8	Carbazole	230	250	24.	J
1912-24-9	Atrazine	ND	200	87.	U
100-52-7	Benzaldehyde	ND	330	67.	U
105-60-2	Caprolactam	290	250	75.	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	250	50.	U

Form 1
SemiVolatile Organics

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-02D	Date Collected	: 11/30/18 09:05
Client ID	: CB-02	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/07/18 20:17
Sample Matrix	: SOIL	Date Extracted	: 12/03/18
Analytical Method	: 1,8270D	Dilution Factor	: 5
Lab File ID	: 49060-02	Analyst	: EK
Sample Amount	: 30.42 g	Instrument ID	: SV103
Extraction Method	: EPA 3546	GC Column	: RTX5-MS
Extract Volume	: 1000 uL	%Solids	: 66
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
117-81-7	Bis(2-ethylhexyl)phthalate	43000	1200	430	

Form 1
SemiVolatile Organics

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-03D	Date Collected	: 11/30/18 09:25
Client ID	: CB-03	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/09/18 23:02
Sample Matrix	: SOIL	Date Extracted	: 12/03/18
Analytical Method	: 1,8270D	Dilution Factor	: 5
Lab File ID	: 49060-03	Analyst	: RC
Sample Amount	: 30.51 g	Instrument ID	: SV103
Extraction Method	: EPA 3546	GC Column	: RTX5-MS
Extract Volume	: 1000 uL	%Solids	: 50
GPC Cleanup	: N	Injection Volume	: 1 uL

CAS NO.	Parameter	ug/Kg Results	RL	MDL	Qualifier
83-32-9	Acenaphthene	ND	1300	170	U
118-74-1	Hexachlorobenzene	ND	980	180	U
111-44-4	Bis(2-chloroethyl)ether	ND	1500	220	U
91-58-7	2-Chloronaphthalene	ND	1600	160	U
91-94-1	3,3'-Dichlorobenzidine	ND	1600	440	U R
121-14-2	2,4-Dinitrotoluene	ND	1600	330	U UJ
606-20-2	2,6-Dinitrotoluene	ND	1600	280	U UJ
206-44-0	Fluoranthene	3000	980	190	J-
7005-72-3	4-Chlorophenyl phenyl ether	ND	1600	180	U
101-55-3	4-Bromophenyl phenyl ether	ND	1600	250	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2000	280	U UJ
111-91-1	Bis(2-chloroethoxy)methane	ND	1800	160	U
87-68-3	Hexachlorobutadiene	ND	1600	240	U
77-47-4	Hexachlorocyclopentadiene	ND	4700	1500	U R
67-72-1	Hexachloroethane	ND	1300	260	U UJ
78-59-1	Isophorone	ND	1500	210	U
91-20-3	Naphthalene	340	1600	200	J
98-95-3	Nitrobenzene	ND	1500	240	U UJ
86-30-6	NDPA/DPA	ND	1300	190	U
621-64-7	n-Nitrosodi-n-propylamine	ND	1600	250	U
117-81-7	Bis(2-ethylhexyl)phthalate	33000	1600	570	J-
85-68-7	Butyl benzyl phthalate	ND	1600	410	U
84-74-2	Di-n-butylphthalate	ND	1600	310	U
117-84-0	Di-n-octylphthalate	ND	1600	560	U UJ

Form 1
SemiVolatile Organics

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-03D	Date Collected	: 11/30/18 09:25
Client ID	: CB-03	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/09/18 23:02
Sample Matrix	: SOIL	Date Extracted	: 12/03/18
Analytical Method	: 1,8270D	Dilution Factor	: 5
Lab File ID	: 49060-03	Analyst	: RC
Sample Amount	: 30.51 g	Instrument ID	: SV103
Extraction Method	: EPA 3546	GC Column	: RTX5-MS
Extract Volume	: 1000 uL	%Solids	: 50
GPC Cleanup	: N	Injection Volume	: 1 uL

CAS NO.	Parameter	ug/Kg Results	RL	MDL	Qualifier
84-66-2	Diethyl phthalate	ND	1600	150	U
131-11-3	Dimethyl phthalate	ND	1600	340	U
56-55-3	Benzo(a)anthracene	1200	980	180	J-
50-32-8	Benzo(a)pyrene	1000	1300	400	J
205-99-2	Benzo(b)fluoranthene	2400	980	280	J-
207-08-9	Benzo(k)fluoranthene	730	980	260	J
218-01-9	Chrysene	1900	980	170	J-
208-96-8	Acenaphthylene	ND	1300	250	U
120-12-7	Anthracene	420	980	320	J
191-24-2	Benzo(ghi)perylene	1000	1300	190	J
86-73-7	Fluorene	190	1600	160	J
85-01-8	Phenanthrene	1800	980	200	J-
53-70-3	Dibenzo(a,h)anthracene	260	980	190	J
193-39-5	Indeno(1,2,3-cd)pyrene	1100	1300	230	J
129-00-0	Pyrene	2500	980	160	J-
92-52-4	Biphenyl	ND	3700	380	U
106-47-8	4-Chloroaniline	ND	1600	300	U UJ
88-74-4	2-Nitroaniline	ND	1600	320	U UJ
99-09-2	3-Nitroaniline	ND	1600	310	U R
100-01-6	4-Nitroaniline	ND	1600	680	U R
132-64-9	Dibenzofuran	ND	1600	160	U
91-57-6	2-Methylnaphthalene	260	2000	200	J
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	1600	170	U
98-86-2	Acetophenone	ND	1600	200	U

Form 1
SemiVolatile Organics

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-03D	Date Collected	: 11/30/18 09:25
Client ID	: CB-03	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/09/18 23:02
Sample Matrix	: SOIL	Date Extracted	: 12/03/18
Analytical Method	: 1,8270D	Dilution Factor	: 5
Lab File ID	: 49060-03	Analyst	: RC
Sample Amount	: 30.51 g	Instrument ID	: SV103
Extraction Method	: EPA 3546	GC Column	: RTX5-MS
Extract Volume	: 1000 uL	%Solids	: 50
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
88-06-2	2,4,6-Trichlorophenol	ND	980	310	U
59-50-7	p-Chloro-m-cresol	ND	1600	240	U
95-57-8	2-Chlorophenol	ND	1600	190	U
120-83-2	2,4-Dichlorophenol	ND	1500	260	U
105-67-9	2,4-Dimethylphenol	ND	1600	540	U
88-75-5	2-Nitrophenol	ND	3500	620	U R
100-02-7	4-Nitrophenol	ND	2300	670	U R
51-28-5	2,4-Dinitrophenol	ND	7900	760	U R
534-52-1	4,6-Dinitro-o-cresol	ND	4300	790	U R
87-86-5	Pentachlorophenol	ND	1300	360	U
108-95-2	Phenol	380	1600	250	J
95-48-7	2-Methylphenol	ND	1600	250	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	6900	2400	260	J-
95-95-4	2,4,5-Trichlorophenol	ND	1600	310	U
86-74-8	Carbazole	310	1600	160	J
1912-24-9	Atrazine	ND	1300	570	U R
100-52-7	Benzaldehyde	ND	2200	440	U
105-60-2	Caprolactam	ND	1600	500	U
58-90-2	2,3,4,6-Tetrachlorophenol	ND	1600	330	U

Form 1
SemiVolatile Organics

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-04	Date Collected	: 11/30/18 09:45
Client ID	: CB-04	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/07/18 01:26
Sample Matrix	: SOIL	Date Extracted	: 12/03/18
Analytical Method	: 1,8270D	Dilution Factor	: 1
Lab File ID	: 49060-04	Analyst	: RC
Sample Amount	: 30.86 g	Instrument ID	: SV112
Extraction Method	: EPA 3546	GC Column	: RTX5-MS
Extract Volume	: 1000 uL	%Solids	: 86
GPC Cleanup	: N	Injection Volume	: 1 uL

CAS NO.	Parameter	ug/Kg Results	RL	MDL	Qualifier
83-32-9	Acenaphthene	21	150	19.	J
118-74-1	Hexachlorobenzene	ND	110	21.	U
111-44-4	Bis(2-chloroethyl)ether	ND	170	25.	U
91-58-7	2-Chloronaphthalene	ND	190	19.	U
91-94-1	3,3'-Dichlorobenzidine	ND	190	50.	U
121-14-2	2,4-Dinitrotoluene	ND	190	38.	U
606-20-2	2,6-Dinitrotoluene	ND	190	32.	U
206-44-0	Fluoranthene	340	110	22.	
7005-72-3	4-Chlorophenyl phenyl ether	ND	190	20.	U
101-55-3	4-Bromophenyl phenyl ether	ND	190	29.	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	220	32.	U
111-91-1	Bis(2-chloroethoxy)methane	ND	200	19.	U
87-68-3	Hexachlorobutadiene	ND	190	27.	U
77-47-4	Hexachlorocyclopentadiene	ND	540	170	U
67-72-1	Hexachloroethane	ND	150	30.	U
78-59-1	Isophorone	ND	170	24.	U
91-20-3	Naphthalene	30	190	23.	J
98-95-3	Nitrobenzene	ND	170	28.	U
86-30-6	NDPA/DPA	ND	150	21.	U
621-64-7	n-Nitrosodi-n-propylamine	ND	190	29.	U
117-81-7	Bis(2-ethylhexyl)phthalate	250	190	65.	
85-68-7	Butyl benzyl phthalate	ND	190	47.	U
84-74-2	Di-n-butylphthalate	ND	190	36.	U
117-84-0	Di-n-octylphthalate	ND	190	64.	U

Form 1
SemiVolatile Organics

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-04	Date Collected	: 11/30/18 09:45
Client ID	: CB-04	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/07/18 01:26
Sample Matrix	: SOIL	Date Extracted	: 12/03/18
Analytical Method	: 1,8270D	Dilution Factor	: 1
Lab File ID	: 49060-04	Analyst	: RC
Sample Amount	: 30.86 g	Instrument ID	: SV112
Extraction Method	: EPA 3546	GC Column	: RTX5-MS
Extract Volume	: 1000 uL	%Solids	: 86
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
84-66-2	Diethyl phthalate	ND	190	17.	U
131-11-3	Dimethyl phthalate	ND	190	39.	U
56-55-3	Benzo(a)anthracene	150	110	21.	
50-32-8	Benzo(a)pyrene	150	150	46.	
205-99-2	Benzo(b)fluoranthene	250	110	32.	
207-08-9	Benzo(k)fluoranthene	91	110	30.	J
218-01-9	Chrysene	200	110	20.	
208-96-8	Acenaphthylene	ND	150	29.	U
120-12-7	Anthracene	55	110	36.	J
191-24-2	Benzo(ghi)perylene	130	150	22.	J
86-73-7	Fluorene	32	190	18.	J
85-01-8	Phenanthrene	220	110	23.	
53-70-3	Dibenzo(a,h)anthracene	32	110	22.	J
193-39-5	Indeno(1,2,3-cd)pyrene	130	150	26.	J
129-00-0	Pyrene	280	110	19.	
92-52-4	Biphenyl	ND	430	44.	U
106-47-8	4-Chloroaniline	ND	190	34.	U
88-74-4	2-Nitroaniline	ND	190	36.	U
99-09-2	3-Nitroaniline	ND	190	35.	U
100-01-6	4-Nitroaniline	ND	190	78.	U
132-64-9	Dibenzofuran	25	190	18.	J
91-57-6	2-Methylnaphthalene	28	220	23.	J
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	190	20.	U
98-86-2	Acetophenone	25	190	23.	J

Form 1
SemiVolatile Organics

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-04	Date Collected	: 11/30/18 09:45
Client ID	: CB-04	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/07/18 01:26
Sample Matrix	: SOIL	Date Extracted	: 12/03/18
Analytical Method	: 1,8270D	Dilution Factor	: 1
Lab File ID	: 49060-04	Analyst	: RC
Sample Amount	: 30.86 g	Instrument ID	: SV112
Extraction Method	: EPA 3546	GC Column	: RTX5-MS
Extract Volume	: 1000 uL	%Solids	: 86
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
88-06-2	2,4,6-Trichlorophenol	ND	110	36.	U
59-50-7	p-Chloro-m-cresol	ND	190	28.	U
95-57-8	2-Chlorophenol	ND	190	22.	U
120-83-2	2,4-Dichlorophenol	ND	170	30.	U
105-67-9	2,4-Dimethylphenol	ND	190	62.	U
88-75-5	2-Nitrophenol	ND	400	70.	U
100-02-7	4-Nitrophenol	ND	260	76.	U
51-28-5	2,4-Dinitrophenol	ND	900	87.	U
534-52-1	4,6-Dinitro-o-cresol	ND	490	90.	U
87-86-5	Pentachlorophenol	ND	150	41.	U
108-95-2	Phenol	140	190	28.	J
95-48-7	2-Methylphenol	ND	190	29.	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	270	29.	U
95-95-4	2,4,5-Trichlorophenol	ND	190	36.	U
86-74-8	Carbazole	26	190	18.	J
1912-24-9	Atrazine	ND	150	66.	U
100-52-7	Benzaldehyde	110	250	51.	J
105-60-2	Caprolactam	ND	190	57.	U
58-90-2	2,3,4,6-Tetrachlorophenol	ND	190	38.	U

Form 1
SemiVolatile Organics

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-05	Date Collected	: 11/30/18 10:10
Client ID	: CB-01	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/07/18 01:51
Sample Matrix	: SOIL	Date Extracted	: 12/03/18
Analytical Method	: 1,8270D	Dilution Factor	: 1
Lab File ID	: 49060-05	Analyst	: RC
Sample Amount	: 30.07 g	Instrument ID	: SV112
Extraction Method	: EPA 3546	GC Column	: RTX5-MS
Extract Volume	: 1000 uL	%Solids	: 73
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
83-32-9	Acenaphthene	ND	180	24.	U
118-74-1	Hexachlorobenzene	ND	140	26.	U
111-44-4	Bis(2-chloroethyl)ether	ND	200	31.	U
91-58-7	2-Chloronaphthalene	ND	230	22.	U
91-94-1	3,3'-Dichlorobenzidine	ND	230	60.	U
121-14-2	2,4-Dinitrotoluene	ND	230	46.	U
606-20-2	2,6-Dinitrotoluene	ND	230	39.	U
206-44-0	Fluoranthene	420	140	26.	
7005-72-3	4-Chlorophenyl phenyl ether	ND	230	24.	U
101-55-3	4-Bromophenyl phenyl ether	ND	230	35.	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	270	39.	U
111-91-1	Bis(2-chloroethoxy)methane	ND	250	23.	U
87-68-3	Hexachlorobutadiene	ND	230	33.	U
77-47-4	Hexachlorocyclopentadiene	ND	650	210	U
67-72-1	Hexachloroethane	ND	180	37.	U
78-59-1	Isophorone	ND	200	30.	U
91-20-3	Naphthalene	120	230	28.	J
98-95-3	Nitrobenzene	ND	200	34.	U
86-30-6	NDPA/DPA	ND	180	26.	U
621-64-7	n-Nitrosodi-n-propylamine	ND	230	35.	U
117-81-7	Bis(2-ethylhexyl)phthalate	1400	230	79.	
85-68-7	Butyl benzyl phthalate	2500	230	57.	
84-74-2	Di-n-butylphthalate	460	230	43.	
117-84-0	Di-n-octylphthalate	ND	230	77.	U

Form 1
SemiVolatile Organics

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-05	Date Collected	: 11/30/18 10:10
Client ID	: CB-01	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/07/18 01:51
Sample Matrix	: SOIL	Date Extracted	: 12/03/18
Analytical Method	: 1,8270D	Dilution Factor	: 1
Lab File ID	: 49060-05	Analyst	: RC
Sample Amount	: 30.07 g	Instrument ID	: SV112
Extraction Method	: EPA 3546	GC Column	: RTX5-MS
Extract Volume	: 1000 uL	%Solids	: 73
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
84-66-2	Diethyl phthalate	ND	230	21.	U
131-11-3	Dimethyl phthalate	ND	230	48.	U
56-55-3	Benzo(a)anthracene	240	140	26.	
50-32-8	Benzo(a)pyrene	280	180	56.	
205-99-2	Benzo(b)fluoranthene	520	140	38.	
207-08-9	Benzo(k)fluoranthene	140	140	36.	
218-01-9	Chrysene	290	140	24.	
208-96-8	Acenaphthylene	120	180	35.	J
120-12-7	Anthracene	140	140	44.	
191-24-2	Benzo(ghi)perylene	470	180	27.	
86-73-7	Fluorene	39	230	22.	J
85-01-8	Phenanthrene	280	140	28.	
53-70-3	Dibenzo(a,h)anthracene	77	140	26.	J
193-39-5	Indeno(1,2,3-cd)pyrene	360	180	32.	
129-00-0	Pyrene	390	140	23.	
92-52-4	Biphenyl	ND	520	53.	U
106-47-8	4-Chloroaniline	ND	230	41.	U
88-74-4	2-Nitroaniline	ND	230	44.	U
99-09-2	3-Nitroaniline	ND	230	43.	U
100-01-6	4-Nitroaniline	ND	230	94.	U
132-64-9	Dibenzofuran	44	230	22.	J
91-57-6	2-Methylnaphthalene	140	270	28.	J
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	230	24.	U
98-86-2	Acetophenone	130	230	28.	J

Form 1
SemiVolatile Organics

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-05	Date Collected	: 11/30/18 10:10
Client ID	: CB-01	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/07/18 01:51
Sample Matrix	: SOIL	Date Extracted	: 12/03/18
Analytical Method	: 1,8270D	Dilution Factor	: 1
Lab File ID	: 49060-05	Analyst	: RC
Sample Amount	: 30.07 g	Instrument ID	: SV112
Extraction Method	: EPA 3546	GC Column	: RTX5-MS
Extract Volume	: 1000 uL	%Solids	: 73
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
88-06-2	2,4,6-Trichlorophenol	ND	140	43.	U
59-50-7	p-Chloro-m-cresol	ND	230	34.	U
95-57-8	2-Chlorophenol	ND	230	27.	U
120-83-2	2,4-Dichlorophenol	ND	200	37.	U
105-67-9	2,4-Dimethylphenol	ND	230	75.	U
88-75-5	2-Nitrophenol	ND	490	86.	U
100-02-7	4-Nitrophenol	ND	320	93.	U
51-28-5	2,4-Dinitrophenol	ND	1100	110	U
534-52-1	4,6-Dinitro-o-cresol	ND	590	110	U
87-86-5	Pentachlorophenol	ND	180	50.	U
108-95-2	Phenol	71	230	34.	J
95-48-7	2-Methylphenol	ND	230	35.	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	62	330	36.	J
95-95-4	2,4,5-Trichlorophenol	ND	230	44.	U
86-74-8	Carbazole	56	230	22.	J
1912-24-9	Atrazine	ND	180	80.	U
100-52-7	Benzaldehyde	200	300	62.	J
105-60-2	Caprolactam	ND	230	69.	U
58-90-2	2,3,4,6-Tetrachlorophenol	ND	230	46.	U

Form 1
SemiVolatile Organics

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-06D	Date Collected	: 11/30/18 12:00
Client ID	: DUP-18	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/09/18 23:28
Sample Matrix	: SOIL	Date Extracted	: 12/03/18
Analytical Method	: 1,8270D	Dilution Factor	: 5
Lab File ID	: 49060-06	Analyst	: RC
Sample Amount	: 30.39 g	Instrument ID	: SV103
Extraction Method	: EPA 3546	GC Column	: RTX5-MS
Extract Volume	: 1000 uL	%Solids	: 49
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
83-32-9	Acenaphthene	ND	1300	170	U
118-74-1	Hexachlorobenzene	ND	1000	190	U
111-44-4	Bis(2-chloroethyl)ether	ND	1500	230	U
91-58-7	2-Chloronaphthalene	ND	1700	170	U
91-94-1	3,3'-Dichlorobenzidine	ND	1700	450	U
121-14-2	2,4-Dinitrotoluene	ND	1700	340	U
606-20-2	2,6-Dinitrotoluene	ND	1700	290	U
206-44-0	Fluoranthene	2100	1000	190	
7005-72-3	4-Chlorophenyl phenyl ether	ND	1700	180	U
101-55-3	4-Bromophenyl phenyl ether	ND	1700	260	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2000	290	U
111-91-1	Bis(2-chloroethoxy)methane	ND	1800	170	U
87-68-3	Hexachlorobutadiene	ND	1700	250	U
77-47-4	Hexachlorocyclopentadiene	ND	4800	1500	U
67-72-1	Hexachloroethane	ND	1300	270	U
78-59-1	Isophorone	ND	1500	220	U
91-20-3	Naphthalene	1000	1700	200	J
98-95-3	Nitrobenzene	ND	1500	250	U
86-30-6	NDPA/DPA	ND	1300	190	U
621-64-7	n-Nitrosodi-n-propylamine	ND	1700	260	U
117-81-7	Bis(2-ethylhexyl)phthalate	28000	1700	580	
85-68-7	Butyl benzyl phthalate	1300	1700	420	J
84-74-2	Di-n-butylphthalate	2300	1700	320	
117-84-0	Di-n-octylphthalate	ND	1700	570	U

Form 1
SemiVolatile Organics

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-06D	Date Collected	: 11/30/18 12:00
Client ID	: DUP-18	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/09/18 23:28
Sample Matrix	: SOIL	Date Extracted	: 12/03/18
Analytical Method	: 1,8270D	Dilution Factor	: 5
Lab File ID	: 49060-06	Analyst	: RC
Sample Amount	: 30.39 g	Instrument ID	: SV103
Extraction Method	: EPA 3546	GC Column	: RTX5-MS
Extract Volume	: 1000 uL	%Solids	: 49
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
84-66-2	Diethyl phthalate	ND	1700	160	U
131-11-3	Dimethyl phthalate	ND	1700	350	U
56-55-3	Benzo(a)anthracene	680	1000	190	J
50-32-8	Benzo(a)pyrene	670	1300	410	J
205-99-2	Benzo(b)fluoranthene	1600	1000	280	J
207-08-9	Benzo(k)fluoranthene	600	1000	270	J
218-01-9	Chrysene	1300	1000	180	J
208-96-8	Acenaphthylene	ND	1300	260	U
120-12-7	Anthracene	ND	1000	330	U
191-24-2	Benzo(ghi)perylene	680	1300	200	J
86-73-7	Fluorene	ND	1700	160	U
85-01-8	Phenanthrene	1100	1000	200	J
53-70-3	Dibenzo(a,h)anthracene	ND	1000	190	U
193-39-5	Indeno(1,2,3-cd)pyrene	730	1300	230	J
129-00-0	Pyrene	1700	1000	170	J
92-52-4	Biphenyl	ND	3800	390	U
106-47-8	4-Chloroaniline	ND	1700	310	U
88-74-4	2-Nitroaniline	ND	1700	320	U
99-09-2	3-Nitroaniline	ND	1700	320	U
100-01-6	4-Nitroaniline	ND	1700	700	U
132-64-9	Dibenzofuran	ND	1700	160	U
91-57-6	2-Methylnaphthalene	300	2000	200	J
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	1700	180	U
98-86-2	Acetophenone	ND	1700	210	U

Form 1
SemiVolatile Organics

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-06D	Date Collected	: 11/30/18 12:00
Client ID	: DUP-18	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/09/18 23:28
Sample Matrix	: SOIL	Date Extracted	: 12/03/18
Analytical Method	: 1,8270D	Dilution Factor	: 5
Lab File ID	: 49060-06	Analyst	: RC
Sample Amount	: 30.39 g	Instrument ID	: SV103
Extraction Method	: EPA 3546	GC Column	: RTX5-MS
Extract Volume	: 1000 uL	%Solids	: 49
GPC Cleanup	: N	Injection Volume	: 1 uL

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
88-06-2	2,4,6-Trichlorophenol	ND	1000	320	U
59-50-7	p-Chloro-m-cresol	ND	1700	250	U
95-57-8	2-Chlorophenol	ND	1700	200	U
120-83-2	2,4-Dichlorophenol	ND	1500	270	U
105-67-9	2,4-Dimethylphenol	ND	1700	560	U
88-75-5	2-Nitrophenol	ND	3600	630	U
100-02-7	4-Nitrophenol	ND	2400	690	U
51-28-5	2,4-Dinitrophenol	ND	8100	780	U
534-52-1	4,6-Dinitro-o-cresol	ND	4400	810	U
87-86-5	Pentachlorophenol	ND	1300	370	U
108-95-2	Phenol	700	1700	250	J
95-48-7	2-Methylphenol	ND	1700	260	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	6900	2400	260	
95-95-4	2,4,5-Trichlorophenol	ND	1700	320	U
86-74-8	Carbazole	200	1700	160	J
1912-24-9	Atrazine	ND	1300	590	U
100-52-7	Benzaldehyde	640	2200	460	J
105-60-2	Caprolactam	ND	1700	510	U
58-90-2	2,3,4,6-Tetrachlorophenol	ND	1700	340	U

Form 1
GC Organics

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-01	Date Collected	: 11/29/18 14:30
Client ID	: CB-05	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/04/18 04:14
Sample Matrix	: SOIL	Date Extracted	: 12/03/18
Analytical Method	: 1,8082A	Dilution Factor	: 1
Lab File ID	: 16181204a-05	Analyst	: HT
Sample Amount	: 15.45 g	Instrument ID	: PEST16
Extraction Method	: EPA 3546	GC Column	: CLP-Pesticide
Extract Volume	: 1000 uL	%Solids	: 24
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: Y		

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
12674-11-2	Aroclor 1016	ND	136	12.1	U
11104-28-2	Aroclor 1221	ND	136	13.6	U
11141-16-5	Aroclor 1232	ND	136	28.8	U
53469-21-9	Aroclor 1242	ND	136	18.3	U
12672-29-6	Aroclor 1248	ND	136	20.4	U
37324-23-5	Aroclor 1262	ND	136	17.3	U
11100-14-4	Aroclor 1268	ND	136	14.1	U

Form 1
GC Organics

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-01	Date Collected	: 11/29/18 14:30
Client ID	: CB-05	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/04/18 04:14
Sample Matrix	: SOIL	Date Extracted	: 12/03/18
Analytical Method	: 1,8082A	Dilution Factor	: 1
Lab File ID	: 16181204a-05	Analyst	: HT
Sample Amount	: 15.45 g	Instrument ID	: PEST16
Extraction Method	: EPA 3546	GC Column	: CLP-PesticideII
Extract Volume	: 1000 uL	%Solids	: 24
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: Y		

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
11097-69-1	Aroclor 1254	2060	136	14.9	
11096-82-5	Aroclor 1260	1500	136	25.1	
1336-36-3	PCBs, Total	3560	136	12.1	

Form 1
GC Organics

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-02D	Date Collected	: 11/30/18 09:05
Client ID	: CB-02	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/10/18 17:42
Sample Matrix	: SOIL	Date Extracted	: 12/02/18
Analytical Method	: 1,8082A	Dilution Factor	: 10
Lab File ID	: 12181210A-09	Analyst	: AWS
Sample Amount	: 15.35 g	Instrument ID	: PEST12
Extraction Method	: EPA 3546	GC Column	: CLP-Pesticide
Extract Volume	: 1000 uL	%Solids	: 66
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: Y		

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
12674-11-2	Aroclor 1016	ND	491	43.6	U
11104-28-2	Aroclor 1221	ND	491	49.2	U
11141-16-5	Aroclor 1232	ND	491	104.	U
53469-21-9	Aroclor 1242	ND	491	66.2	U
12672-29-6	Aroclor 1248	ND	491	73.7	U
11097-69-1	Aroclor 1254	4660	491	53.7	
11096-82-5	Aroclor 1260	2080	491	90.8	
37324-23-5	Aroclor 1262	ND	491	62.4	U
11100-14-4	Aroclor 1268	ND	491	50.9	U
1336-36-3	PCBs, Total	6740	491	43.6	

Form 1
GC Organics

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-03	Date Collected	: 11/30/18 09:25
Client ID	: CB-03	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/04/18 08:03
Sample Matrix	: SOIL	Date Extracted	: 12/02/18
Analytical Method	: 1,8082A	Dilution Factor	: 1
Lab File ID	: P7181204a-23	Analyst	: WR
Sample Amount	: 5.84 g	Instrument ID	: PEST7
Extraction Method	: EPA 3546	GC Column	: CLP-Pesticide
Extract Volume	: 1000 uL	%Solids	: 50
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: Y		

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
12674-11-2	Aroclor 1016	ND	172	15.2	U
11104-28-2	Aroclor 1221	ND	172	17.2	U
11141-16-5	Aroclor 1232	ND	172	36.4	U
12672-29-6	Aroclor 1248	ND	172	25.7	U
37324-23-5	Aroclor 1262	ND	172	21.8	U
11100-14-4	Aroclor 1268	ND	172	17.8	U

Form 1
GC Organics

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-03	Date Collected	: 11/30/18 09:25
Client ID	: CB-03	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/04/18 08:03
Sample Matrix	: SOIL	Date Extracted	: 12/02/18
Analytical Method	: 1,8082A	Dilution Factor	: 1
Lab File ID	: P7181204a-23	Analyst	: WR
Sample Amount	: 5.84 g	Instrument ID	: PEST7
Extraction Method	: EPA 3546	GC Column	: CLP-PesticideII
Extract Volume	: 1000 uL	%Solids	: 50
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: Y		

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
53469-21-9	Aroclor 1242	901	172	23.1	
11097-69-1	Aroclor 1254	2050	172	18.8	
11096-82-5	Aroclor 1260	1590	172	31.7	J
1336-36-3	PCBs, Total	4540	172	15.2	

Form 1
GC Organics

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-04	Date Collected	: 11/30/18 09:45
Client ID	: CB-04	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/04/18 08:55
Sample Matrix	: SOIL	Date Extracted	: 12/02/18
Analytical Method	: 1,8082A	Dilution Factor	: 1
Lab File ID	: P7181204a-27	Analyst	: WR
Sample Amount	: 15.16 g	Instrument ID	: PEST7
Extraction Method	: EPA 3546	GC Column	: CLP-Pesticide
Extract Volume	: 1000 uL	%Solids	: 86
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: Y		

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
12674-11-2	Aroclor 1016	ND	38.2	3.39	U
11104-28-2	Aroclor 1221	ND	38.2	3.82	U
11141-16-5	Aroclor 1232	ND	38.2	8.09	U
12672-29-6	Aroclor 1248	ND	38.2	5.72	U
11096-82-5	Aroclor 1260	121	38.2	7.05	I J-
37324-23-5	Aroclor 1262	ND	38.2	4.85	U
11100-14-4	Aroclor 1268	ND	38.2	3.95	U

Form 1
GC Organics

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-04	Date Collected	: 11/30/18 09:45
Client ID	: CB-04	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/04/18 08:55
Sample Matrix	: SOIL	Date Extracted	: 12/02/18
Analytical Method	: 1,8082A	Dilution Factor	: 1
Lab File ID	: P7181204a-27	Analyst	: WR
Sample Amount	: 15.16 g	Instrument ID	: PEST7
Extraction Method	: EPA 3546	GC Column	: CLP-PesticideII
Extract Volume	: 1000 uL	%Solids	: 86
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: Y		

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
53469-21-9	Aroclor 1242	52.8	38.2	5.14	
11097-69-1	Aroclor 1254	204	38.2	4.18	
1336-36-3	PCBs, Total	378	38.2	3.39	

Form 1
GC Organics

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-05D	Date Collected	: 11/30/18 10:10
Client ID	: CB-01	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/10/18 16:28
Sample Matrix	: SOIL	Date Extracted	: 12/02/18
Analytical Method	: 1,8082A	Dilution Factor	: 20
Lab File ID	: 12181210A-05	Analyst	: AWS
Sample Amount	: 15.08 g	Instrument ID	: PEST12
Extraction Method	: EPA 3546	GC Column	: CLP-Pesticide
Extract Volume	: 1000 uL	%Solids	: 73
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: Y		

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
12674-11-2	Aroclor 1016	ND	908	80.7	U
11104-28-2	Aroclor 1221	ND	908	91.0	U
11141-16-5	Aroclor 1232	ND	908	192.	U
53469-21-9	Aroclor 1242	ND	908	122.	U
12672-29-6	Aroclor 1248	ND	908	136.	U
11096-82-5	Aroclor 1260	3010	908	168.	
37324-23-5	Aroclor 1262	ND	908	115.	U
11100-14-4	Aroclor 1268	ND	908	94.1	U

Form 1
GC Organics

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-05D	Date Collected	: 11/30/18 10:10
Client ID	: CB-01	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/10/18 16:28
Sample Matrix	: SOIL	Date Extracted	: 12/02/18
Analytical Method	: 1,8082A	Dilution Factor	: 20
Lab File ID	: 12181210A-05	Analyst	: AWS
Sample Amount	: 15.08 g	Instrument ID	: PEST12
Extraction Method	: EPA 3546	GC Column	: CLP-PesticideII
Extract Volume	: 1000 uL	%Solids	: 73
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: Y		

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
11097-69-1	Aroclor 1254	7320	908	99.4	
1336-36-3	PCBs, Total	10300	908	80.7	

Form 1
GC Organics

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-06	Date Collected	: 11/30/18 12:00
Client ID	: DUP-18	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/04/18 09:20
Sample Matrix	: SOIL	Date Extracted	: 12/02/18
Analytical Method	: 1,8082A	Dilution Factor	: 1
Lab File ID	: P7181204a-29	Analyst	: WR
Sample Amount	: 5.93 g	Instrument ID	: PEST7
Extraction Method	: EPA 3546	GC Column	: CLP-Pesticide
Extract Volume	: 1000 uL	%Solids	: 49
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: Y		

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
12674-11-2	Aroclor 1016	ND	173	15.3	U
11104-28-2	Aroclor 1221	ND	173	17.3	U
11141-16-5	Aroclor 1232	ND	173	36.6	U
12672-29-6	Aroclor 1248	ND	173	25.9	U
11096-82-5	Aroclor 1260	1010	173	31.9	I J-
37324-23-5	Aroclor 1262	ND	173	21.9	U
11100-14-4	Aroclor 1268	ND	173	17.9	U

Form 1
GC Organics

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-06	Date Collected	: 11/30/18 12:00
Client ID	: DUP-18	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/04/18 09:20
Sample Matrix	: SOIL	Date Extracted	: 12/02/18
Analytical Method	: 1,8082A	Dilution Factor	: 1
Lab File ID	: P7181204a-29	Analyst	: WR
Sample Amount	: 5.93 g	Instrument ID	: PEST7
Extraction Method	: EPA 3546	GC Column	: CLP-PesticideII
Extract Volume	: 1000 uL	%Solids	: 49
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: Y		

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
53469-21-9	Aroclor 1242	662	173	23.3	
11097-69-1	Aroclor 1254	1620	173	18.9	
1336-36-3	PCBs, Total	3290	173	15.3	

Form 1
GC Organics

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-02	Date Collected	: 11/30/18 09:05
Client ID	: CB-02	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/06/18 10:33
Sample Matrix	: SOIL	Date Extracted	: 12/02/18
Analytical Method	: 1,8081B	Dilution Factor	: 1
Lab File ID	: 18181206a-06	Analyst	: KB
Sample Amount	: 15.33 g	Instrument ID	: PEST18
Extraction Method	: EPA 3546	GC Column	: CLPPesticides
Extract Volume	: 1000 uL	%Solids	: 66
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
319-86-8	Delta-BHC	ND	2.36	0.462	U
58-89-9	Lindane	ND	0.984	0.440	U
319-84-6	Alpha-BHC	ND	0.984	0.279	U
319-85-7	Beta-BHC	ND	2.36	0.895	U
76-44-8	Heptachlor	ND	1.18	0.529	U
309-00-2	Aldrin	ND	2.36	0.831	U
1024-57-3	Heptachlor epoxide	ND	4.43	1.33	U
72-20-8	Endrin	30.0	0.984	0.403	IP J-
7421-93-4	Endrin aldehyde	ND	2.95	1.03	U
53494-70-5	Endrin ketone	ND	2.36	0.608	U
60-57-1	Dieldrin	ND	1.48	0.738	U
72-55-9	4,4'-DDE	ND	2.36	0.546	U
72-54-8	4,4'-DDD	ND	2.36	0.842	U
50-29-3	4,4'-DDT	ND	4.43	1.90	U
959-98-8	Endosulfan I	ND	2.36	0.558	U
33213-65-9	Endosulfan II	ND	2.36	0.789	U
1031-07-8	Endosulfan sulfate	ND	0.984	0.468	U
72-43-5	Methoxychlor	ND	4.43	1.38	U
8001-35-2	Toxaphene	ND	44.3	12.4	U
5103-71-9	cis-Chlordane	ND	2.95	0.822	U
5103-74-2	trans-Chlordane	ND	2.95	0.779	U
57-74-9	Chlordane	ND	19.2	7.82	U

Form 1
GC Organics

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-03	Date Collected	: 11/30/18 09:25
Client ID	: CB-03	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/06/18 02:39
Sample Matrix	: SOIL	Date Extracted	: 12/02/18
Analytical Method	: 1,8081B	Dilution Factor	: 1
Lab File ID	: 18181205c-38	Analyst	: BM
Sample Amount	: 5.65 g	Instrument ID	: PEST18
Extraction Method	: EPA 3546	GC Column	: CLPPesticides
Extract Volume	: 1000 uL	%Solids	: 50
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
319-86-8	Delta-BHC	ND	8.51	1.67	U
58-89-9	Lindane	ND	3.55	1.58	U
319-84-6	Alpha-BHC	ND	3.55	1.01	U
319-85-7	Beta-BHC	ND	8.51	3.23	U
76-44-8	Heptachlor	ND	4.26	1.91	U
309-00-2	Aldrin	ND	8.51	3.00	U
1024-57-3	Heptachlor epoxide	ND	16.0	4.79	U
72-20-8	Endrin	16.3	3.55	1.45	
7421-93-4	Endrin aldehyde	ND	10.6	3.72	U
53494-70-5	Endrin ketone	ND	8.51	2.19	U
60-57-1	Dieldrin	ND	5.32	2.66	U
72-55-9	4,4'-DDE	ND	8.51	1.97	U
72-54-8	4,4'-DDD	ND	8.51	3.04	U
50-29-3	4,4'-DDT	ND	16.0	6.84	U
959-98-8	Endosulfan I	ND	8.51	2.01	U
33213-65-9	Endosulfan II	ND	8.51	2.84	U
1031-07-8	Endosulfan sulfate	ND	3.55	1.69	U
72-43-5	Methoxychlor	ND	16.0	4.96	U
8001-35-2	Toxaphene	ND	160	44.7	U
5103-71-9	cis-Chlordane	ND	10.6	2.96	U
5103-74-2	trans-Chlordane	ND	10.6	2.81	U
57-74-9	Chlordane	ND	69.2	28.2	U

Form 1
GC Organics

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-04	Date Collected	: 11/30/18 09:45
Client ID	: CB-04	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/06/18 10:46
Sample Matrix	: SOIL	Date Extracted	: 12/02/18
Analytical Method	: 1,8081B	Dilution Factor	: 1
Lab File ID	: 18181206a-07	Analyst	: KB
Sample Amount	: 15.87 g	Instrument ID	: PEST18
Extraction Method	: EPA 3546	GC Column	: CLPPesticides
Extract Volume	: 1000 uL	%Solids	: 86
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
319-86-8	Delta-BHC	ND	1.75	0.343	U
58-89-9	Lindane	ND	0.729	0.326	U
319-84-6	Alpha-BHC	ND	0.729	0.207	U
319-85-7	Beta-BHC	ND	1.75	0.664	U
76-44-8	Heptachlor	ND	0.875	0.392	U
309-00-2	Aldrin	ND	1.75	0.616	U
1024-57-3	Heptachlor epoxide	ND	3.28	0.984	U
7421-93-4	Endrin aldehyde	ND	2.19	0.766	U
53494-70-5	Endrin ketone	ND	1.75	0.451	U
60-57-1	Dieldrin	ND	1.09	0.547	U
72-55-9	4,4'-DDE	ND	1.75	0.405	U
72-54-8	4,4'-DDD	ND	1.75	0.624	U
50-29-3	4,4'-DDT	ND	3.28	1.41	U
959-98-8	Endosulfan I	ND	1.75	0.414	U
33213-65-9	Endosulfan II	ND	1.75	0.585	U
1031-07-8	Endosulfan sulfate	ND	0.729	0.347	U
72-43-5	Methoxychlor	ND	3.28	1.02	U
8001-35-2	Toxaphene	ND	32.8	9.19	U
5103-71-9	cis-Chlordane	ND	2.19	0.610	U
5103-74-2	trans-Chlordane	ND	2.19	0.578	U
57-74-9	Chlordane	ND	14.2	5.80	U

Form 1
GC Organics

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-04	Date Collected	: 11/30/18 09:45
Client ID	: CB-04	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/06/18 10:46
Sample Matrix	: SOIL	Date Extracted	: 12/02/18
Analytical Method	: 1,8081B	Dilution Factor	: 1
Lab File ID	: 18181206a-07	Analyst	: KB
Sample Amount	: 15.87 g	Instrument ID	: PEST18
Extraction Method	: EPA 3546	GC Column	: CLPPesticidesII
Extract Volume	: 1000 uL	%Solids	: 86
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
72-20-8	Endrin	3.15	0.729	0.299	IP J-

Form 1
GC Organics

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-05	Date Collected	: 11/30/18 10:10
Client ID	: CB-01	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/06/18 10:59
Sample Matrix	: SOIL	Date Extracted	: 12/02/18
Analytical Method	: 1,8081B	Dilution Factor	: 1
Lab File ID	: 18181206a-08	Analyst	: KB
Sample Amount	: 15.14 g	Instrument ID	: PEST18
Extraction Method	: EPA 3546	GC Column	: CLPPesticides
Extract Volume	: 1000 uL	%Solids	: 73
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
319-86-8	Delta-BHC	ND	2.17	0.425	U
58-89-9	Lindane	ND	0.905	0.404	U
319-84-6	Alpha-BHC	ND	0.905	0.257	U
319-85-7	Beta-BHC	ND	2.17	0.823	U
76-44-8	Heptachlor	ND	1.08	0.487	U
309-00-2	Aldrin	ND	2.17	0.764	U
1024-57-3	Heptachlor epoxide	ND	4.07	1.22	U
7421-93-4	Endrin aldehyde	ND	2.71	0.950	U
53494-70-5	Endrin ketone	ND	2.17	0.559	U
60-57-1	Dieldrin	ND	1.36	0.678	U
72-55-9	4,4'-DDE	ND	2.17	0.502	U
72-54-8	4,4'-DDD	ND	2.17	0.774	U
50-29-3	4,4'-DDT	ND	4.07	1.75	U
959-98-8	Endosulfan I	ND	2.17	0.513	U
33213-65-9	Endosulfan II	ND	2.17	0.726	U
1031-07-8	Endosulfan sulfate	ND	0.905	0.431	U
72-43-5	Methoxychlor	ND	4.07	1.27	U
8001-35-2	Toxaphene	ND	40.7	11.4	U
5103-71-9	cis-Chlordane	ND	2.71	0.756	U
5103-74-2	trans-Chlordane	ND	2.71	0.716	U
57-74-9	Chlordane	ND	17.6	7.19	U

Form 1
GC Organics

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-05	Date Collected	: 11/30/18 10:10
Client ID	: CB-01	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/06/18 10:59
Sample Matrix	: SOIL	Date Extracted	: 12/02/18
Analytical Method	: 1,8081B	Dilution Factor	: 1
Lab File ID	: 18181206a-08	Analyst	: KB
Sample Amount	: 15.14 g	Instrument ID	: PEST18
Extraction Method	: EPA 3546	GC Column	: CLPPesticidesII
Extract Volume	: 1000 uL	%Solids	: 73
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
72-20-8	Endrin	51.6	0.905	0.371	J+

Form 1
GC Organics

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-06	Date Collected	: 11/30/18 12:00
Client ID	: DUP-18	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/06/18 11:11
Sample Matrix	: SOIL	Date Extracted	: 12/02/18
Analytical Method	: 1,8081B	Dilution Factor	: 1
Lab File ID	: 18181206a-09	Analyst	: KB
Sample Amount	: 5.99 g	Instrument ID	: PEST18
Extraction Method	: EPA 3546	GC Column	: CLPPesticides
Extract Volume	: 1000 uL	%Solids	: 49
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
319-86-8	Delta-BHC	ND	8.21	1.61	U
58-89-9	Lindane	ND	3.42	1.53	U
319-84-6	Alpha-BHC	ND	3.42	0.972	U
319-85-7	Beta-BHC	ND	8.21	3.11	U
76-44-8	Heptachlor	ND	4.10	1.84	U
309-00-2	Aldrin	ND	8.21	2.89	U
1024-57-3	Heptachlor epoxide	ND	15.4	4.62	U
72-20-8	Endrin	16.9	3.42	1.40	
7421-93-4	Endrin aldehyde	ND	10.3	3.59	U
53494-70-5	Endrin ketone	ND	8.21	2.11	U
60-57-1	Dieldrin	ND	5.13	2.56	U
72-55-9	4,4'-DDE	ND	8.21	1.90	U
72-54-8	4,4'-DDD	ND	8.21	2.93	U
50-29-3	4,4'-DDT	ND	15.4	6.60	U
959-98-8	Endosulfan I	ND	8.21	1.94	U
33213-65-9	Endosulfan II	ND	8.21	2.74	U
1031-07-8	Endosulfan sulfate	ND	3.42	1.63	U
8001-35-2	Toxaphene	ND	154	43.1	U
5103-71-9	cis-Chlordane	ND	10.3	2.86	U
5103-74-2	trans-Chlordane	ND	10.3	2.71	U
57-74-9	Chlordane	ND	66.7	27.2	U

Form 1
GC Organics

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-06	Date Collected	: 11/30/18 12:00
Client ID	: DUP-18	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/06/18 11:11
Sample Matrix	: SOIL	Date Extracted	: 12/02/18
Analytical Method	: 1,8081B	Dilution Factor	: 1
Lab File ID	: 18181206a-09	Analyst	: KB
Sample Amount	: 5.99 g	Instrument ID	: PEST18
Extraction Method	: EPA 3546	GC Column	: CLPPesticidesII
Extract Volume	: 1000 uL	%Solids	: 49
GPC Cleanup	: N	Injection Volume	: 1 uL
Sulfur Cleanup	: N		

		ug/Kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
72-43-5	Methoxychlor	28.9	15.4	4.79	

Form 1
METALS

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-02	Date Collected	: 11/30/18 09:05
Client ID	: CB-02	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/06/18 00:54
Sample Matrix	: SOIL	Dilution Factor	: 2
Analytical Method	: 1,6010D	Analyst	: AB
Lab File ID	: WG1185910.pdf	Instrument ID	: TRACE5
Sample Amount	: 1.268g	%Solids	: 66
Digestion Method	: EPA 3050B	Date Digested	: 12/05/18

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Total	11200	11.9	3.21	
7440-36-0	Antimony, Total	16.3	5.95	0.452	
7440-38-2	Arsenic, Total	16.0	1.19	0.247	
7440-39-3	Barium, Total	410	1.19	0.207	J-
7440-41-7	Beryllium, Total	0.345	0.595	0.039	J
7440-43-9	Cadmium, Total	21.4	1.19	0.116	J-
7440-70-2	Calcium, Total	34200	11.9	4.16	J
7440-47-3	Chromium, Total	150	1.19	0.114	J
7440-48-4	Cobalt, Total	21.4	2.38	0.197	
7440-50-8	Copper, Total	655	1.19	0.307	J
7439-92-1	Lead, Total	1470	5.95	0.319	
7439-95-4	Magnesium, Total	7390	11.9	1.83	
7439-96-5	Manganese, Total	915	1.19	0.189	
7440-02-0	Nickel, Total	140	2.97	0.288	J+
7440-09-7	Potassium, Total	897	297	17.1	
7782-49-2	Selenium, Total	1.83	2.38	0.307	J
7440-22-4	Silver, Total	3.09	1.19	0.337	
7440-23-5	Sodium, Total	208	238	3.75	J
7440-28-0	Thallium, Total	0.464	2.38	0.375	J J-
7440-62-2	Vanadium, Total	58.0	1.19	0.241	

Form 1
METALS

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-02	Date Collected	: 11/30/18 09:05
Client ID	: CB-02	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/06/18 02:42
Sample Matrix	: SOIL	Dilution Factor	: 20
Analytical Method	: 1,6010D	Analyst	: AB
Lab File ID	: WG1185910.pdf	Instrument ID	: TRACE5
Sample Amount	: 1.268g	%Solids	: 66
Digestion Method	: EPA 3050B	Date Digested	: 12/05/18

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7439-89-6	Iron, Total	82000	59.5	10.7	
7440-66-6	Zinc, Total	3940	59.5	3.48	

Form 1
METALS

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-02	Date Collected	: 11/30/18 09:05
Client ID	: CB-02	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/06/18 21:55
Sample Matrix	: SOIL	Dilution Factor	: 5
Analytical Method	: 1,7471B	Analyst	: MG
Lab File ID	: WG1186347_120618AA.txt	Instrument ID	: CETAC
Sample Amount	: 0.391g	%Solids	: 66
Digestion Method	: EPA 7471B	Date Digested	: 12/06/18

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7439-97-6	Mercury, Total	7.50	0.482	0.102	

Form 1
METALS

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-03	Date Collected	: 11/30/18 09:25
Client ID	: CB-03	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/05/18 23:50
Sample Matrix	: SOIL	Dilution Factor	: 2
Analytical Method	: 1,6010D	Analyst	: AB
Lab File ID	: WG1185910.pdf	Instrument ID	: TRACE5
Sample Amount	: 1.294g	%Solids	: 50
Digestion Method	: EPA 3050B	Date Digested	: 12/05/18

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Total	7340	15.5	4.18	
7440-36-0	Antimony, Total	17.4	7.74	0.588	
7440-38-2	Arsenic, Total	13.5	1.55	0.322	
7440-39-3	Barium, Total	233	1.55	0.269	J-
7440-41-7	Beryllium, Total	0.279	0.774	0.051	J
7440-43-9	Cadmium, Total	10.3	1.55	0.152	J-
7440-70-2	Calcium, Total	33600	15.5	5.42	J
7440-47-3	Chromium, Total	189	1.55	0.149	J
7440-48-4	Cobalt, Total	11.2	3.10	0.257	
7440-50-8	Copper, Total	2700	1.55	0.400	J
7439-89-6	Iron, Total	39300	7.74	1.40	
7439-92-1	Lead, Total	1340	7.74	0.415	
7439-95-4	Magnesium, Total	5310	15.5	2.38	
7439-96-5	Manganese, Total	318	1.55	0.246	
7440-02-0	Nickel, Total	152	3.87	0.375	J+
7440-09-7	Potassium, Total	650	387	22.3	
7782-49-2	Selenium, Total	1.01	3.10	0.400	J
7440-22-4	Silver, Total	14.0	1.55	0.438	
7440-23-5	Sodium, Total	161	310	4.88	J
7440-28-0	Thallium, Total	ND	3.10	0.488	U UJ
7440-62-2	Vanadium, Total	37.9	1.55	0.314	
7440-66-6	Zinc, Total	1760	7.74	0.454	

Form 1
METALS

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-03	Date Collected	: 11/30/18 09:25
Client ID	: CB-03	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/06/18 20:38
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,7471B	Analyst	: MG
Lab File ID	: WG1186347_120618AA.txt	Instrument ID	: CETAC
Sample Amount	: 0.399g	%Solids	: 50
Digestion Method	: EPA 7471B	Date Digested	: 12/06/18

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7439-97-6	Mercury, Total	2.40	0.126	0.027	

Form 1
METALS

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-04	Date Collected	: 11/30/18 09:45
Client ID	: CB-04	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/06/18 00:59
Sample Matrix	: SOIL	Dilution Factor	: 2
Analytical Method	: 1,6010D	Analyst	: AB
Lab File ID	: WG1185910.pdf	Instrument ID	: TRACE5
Sample Amount	: 1.318g	%Solids	: 86
Digestion Method	: EPA 3050B	Date Digested	: 12/05/18

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Total	4200	8.78	2.37	
7440-36-0	Antimony, Total	1.08	4.39	0.334	J
7440-38-2	Arsenic, Total	6.92	0.878	0.183	
7440-39-3	Barium, Total	98.9	0.878	0.153	J-
7440-41-7	Beryllium, Total	0.184	0.439	0.029	J
7440-43-9	Cadmium, Total	1.57	0.878	0.086	J-
7440-70-2	Calcium, Total	77100	8.78	3.07	J
7440-47-3	Chromium, Total	25.2	0.878	0.084	J
7440-48-4	Cobalt, Total	5.60	1.76	0.146	
7440-50-8	Copper, Total	71.1	0.878	0.226	J
7439-89-6	Iron, Total	42200	4.39	0.793	
7439-92-1	Lead, Total	203	4.39	0.235	
7439-95-4	Magnesium, Total	6320	8.78	1.35	
7439-96-5	Manganese, Total	391	0.878	0.140	
7440-02-0	Nickel, Total	22.3	2.20	0.212	J+
7440-09-7	Potassium, Total	768	220	12.6	
7782-49-2	Selenium, Total	0.342	1.76	0.226	J
7440-22-4	Silver, Total	0.869	0.878	0.248	J
7440-23-5	Sodium, Total	236	176	2.77	
7440-28-0	Thallium, Total	ND	1.76	0.277	U UJ
7440-62-2	Vanadium, Total	16.8	0.878	0.178	
7440-66-6	Zinc, Total	331	4.39	0.257	

Form 1
METALS

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-04	Date Collected	: 11/30/18 09:45
Client ID	: CB-04	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/06/18 21:58
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,7471B	Analyst	: MG
Lab File ID	: WG1186347_120618AA.txt	Instrument ID	: CETAC
Sample Amount	: 0.399g	%Solids	: 86
Digestion Method	: EPA 7471B	Date Digested	: 12/06/18

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7439-97-6	Mercury, Total	0.425	0.073	0.015	

Form 1
METALS

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-05	Date Collected	: 11/30/18 10:10
Client ID	: CB-01	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/06/18 01:04
Sample Matrix	: SOIL	Dilution Factor	: 2
Analytical Method	: 1,6010D	Analyst	: AB
Lab File ID	: WG1185910.pdf	Instrument ID	: TRACE5
Sample Amount	: 1.312g	%Solids	: 73
Digestion Method	: EPA 3050B	Date Digested	: 12/05/18

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Total	8970	10.4	2.82	
7440-36-0	Antimony, Total	15.2	5.22	0.397	
7440-38-2	Arsenic, Total	25.9	1.04	0.217	
7440-39-3	Barium, Total	305	1.04	0.182	J-
7440-41-7	Beryllium, Total	0.198	0.522	0.034	J
7440-43-9	Cadmium, Total	13.2	1.04	0.102	J-
7440-70-2	Calcium, Total	8260	10.4	3.65	J
7440-47-3	Chromium, Total	91.8	1.04	0.100	J
7440-48-4	Cobalt, Total	16.3	2.09	0.173	
7440-50-8	Copper, Total	735	1.04	0.269	J
7439-92-1	Lead, Total	2060	5.22	0.280	
7439-95-4	Magnesium, Total	3390	10.4	1.61	
7439-96-5	Manganese, Total	1440	1.04	0.166	
7440-02-0	Nickel, Total	104	2.61	0.253	J+
7440-09-7	Potassium, Total	664	261	15.0	
7782-49-2	Selenium, Total	1.98	2.09	0.269	J
7440-22-4	Silver, Total	1.33	1.04	0.295	
7440-23-5	Sodium, Total	165	209	3.29	J
7440-28-0	Thallium, Total	2.57	2.09	0.329	J-
7440-62-2	Vanadium, Total	56.7	1.04	0.212	
7440-66-6	Zinc, Total	1890	5.22	0.306	

Form 1
METALS

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-05	Date Collected	: 11/30/18 10:10
Client ID	: CB-01	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/06/18 02:46
Sample Matrix	: SOIL	Dilution Factor	: 20
Analytical Method	: 1,6010D	Analyst	: AB
Lab File ID	: WG1185910.pdf	Instrument ID	: TRACE5
Sample Amount	: 1.312g	%Solids	: 73
Digestion Method	: EPA 3050B	Date Digested	: 12/05/18

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7439-89-6	Iron, Total	91700	52.2	9.43	

Form 1
METALS

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-05	Date Collected	: 11/30/18 10:10
Client ID	: CB-01	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/06/18 23:33
Sample Matrix	: SOIL	Dilution Factor	: 5
Analytical Method	: 1,7471B	Analyst	: MG
Lab File ID	: WG1186347_120618AA.txt	Instrument ID	: CETAC
Sample Amount	: 0.398g	%Solids	: 73
Digestion Method	: EPA 7471B	Date Digested	: 12/06/18

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7439-97-6	Mercury, Total	7.43	0.430	0.091	

Form 1
METALS

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-06	Date Collected	: 11/30/18 12:00
Client ID	: DUP-18	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/06/18 01:08
Sample Matrix	: SOIL	Dilution Factor	: 2
Analytical Method	: 1,6010D	Analyst	: AB
Lab File ID	: WG1185910.pdf	Instrument ID	: TRACE5
Sample Amount	: 1.295g	%Solids	: 49
Digestion Method	: EPA 3050B	Date Digested	: 12/05/18

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7429-90-5	Aluminum, Total	6870	15.8	4.27	J
7440-36-0	Antimony, Total	18.3	7.91	0.601	J
7440-38-2	Arsenic, Total	12.3	1.58	0.329	J
7440-39-3	Barium, Total	162	1.58	0.275	J -
7440-41-7	Beryllium, Total	0.396	0.791	0.052	J J
7440-43-9	Cadmium, Total	8.37	1.58	0.155	J -
7440-70-2	Calcium, Total	30200	15.8	5.54	J
7440-47-3	Chromium, Total	172	1.58	0.152	J
7440-48-4	Cobalt, Total	11.2	3.16	0.263	J
7440-50-8	Copper, Total	3270	1.58	0.408	J
7439-89-6	Iron, Total	37400	7.91	1.43	J
7439-92-1	Lead, Total	1250	7.91	0.424	J
7439-95-4	Magnesium, Total	4960	15.8	2.44	J
7439-96-5	Manganese, Total	312	1.58	0.252	J
7440-02-0	Nickel, Total	150	3.96	0.383	J +
7440-09-7	Potassium, Total	532	396	22.8	J
7782-49-2	Selenium, Total	1.11	3.16	0.408	J J
7440-22-4	Silver, Total	14.1	1.58	0.448	J
7440-23-5	Sodium, Total	147	316	4.98	J J
7440-28-0	Thallium, Total	ND	3.16	0.498	U U J
7440-62-2	Vanadium, Total	34.9	1.58	0.321	J
7440-66-6	Zinc, Total	1750	7.91	0.464	J

Form 1
METALS

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-06	Date Collected	: 11/30/18 12:00
Client ID	: DUP-18	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/06/18 22:10
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,7471B	Analyst	: MG
Lab File ID	: WG1186347_120618AA.txt	Instrument ID	: CETAC
Sample Amount	: 0.394g	%Solids	: 49
Digestion Method	: EPA 7471B	Date Digested	: 12/06/18

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
7439-97-6	Mercury, Total	2.57	0.130	0.028	

Form 1
WETCHEM

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-02	Date Collected	: 11/30/18 09:05
Client ID	: CB-02	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/04/18 13:47
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,9010C/9012B	Analyst	: LHK
Lab File ID	: OM_12-4-2018_12-52-41PM	Instrument ID	: LACHAT
Sample Amount	: 1.0915g	%Solids	: 66
Digestion Method	:	Date Digested	: 12/03/18

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
57-12-5	Cyanide, Total	0.86	1.4	0.29	J J-

Form 1
WETCHEM

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-02	Date Collected	: 11/30/18 09:05
Client ID	: CB-02	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/04/18 14:12
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,9010C	Analyst	: LHK
Lab File ID	: --	Instrument ID	:
Sample Amount	:	%Solids	: 66
Digestion Method	: NO PREP	Date Digested	: 12/03/18

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
57-12-5	Cyanide, Amenable	ND	1.5	1.5	U

Form 1
WETCHEM

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-03	Date Collected	: 11/30/18 09:25
Client ID	: CB-03	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/04/18 13:48
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,9010C/9012B	Analyst	: LHK
Lab File ID	: OM_12-4-2018_12-52-41PM	Instrument ID	: LACHAT
Sample Amount	: 1g	%Solids	: 50
Digestion Method	:	Date Digested	: 12/03/18

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
57-12-5	Cyanide, Total	0.67	2.0	0.42	J J-

Form 1
WETCHEM

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-03	Date Collected	: 11/30/18 09:25
Client ID	: CB-03	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/04/18 14:12
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,9010C	Analyst	: LHK
Lab File ID	: --	Instrument ID	:
Sample Amount	:	%Solids	: 50
Digestion Method	: NO PREP	Date Digested	: 12/03/18

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
57-12-5	Cyanide, Amenable	ND	2.0	2.0	U

Form 1
WETCHEM

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-04	Date Collected	: 11/30/18 09:45
Client ID	: CB-04	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/04/18 13:51
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,9010C/9012B	Analyst	: LHK
Lab File ID	: OM_12-4-2018_12-52-41PM	Instrument ID	: LACHAT
Sample Amount	: 1.0538g	%Solids	: 86
Digestion Method	:	Date Digested	: 12/03/18

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
57-12-5	Cyanide, Total	ND	1.1	0.23	U UJ

Form 1
WETCHEM

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-04	Date Collected	: 11/30/18 09:45
Client ID	: CB-04	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/04/18 14:12
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,9010C	Analyst	: LHK
Lab File ID	: --	Instrument ID	:
Sample Amount	:	%Solids	: 86
Digestion Method	: NO PREP	Date Digested	: 12/03/18

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
57-12-5	Cyanide, Amenable	ND	1.2	1.2	U

Form 1
WETCHEM

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-05	Date Collected	: 11/30/18 10:10
Client ID	: CB-01	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/04/18 13:52
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,9010C/9012B	Analyst	: LHK
Lab File ID	: OM_12-4-2018_12-52-41PM	Instrument ID	: LACHAT
Sample Amount	: 1.0375g	%Solids	: 73
Digestion Method	:	Date Digested	: 12/03/18

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
57-12-5	Cyanide, Total	0.97	1.3	0.28	J J-

Form 1
WETCHEM

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-05	Date Collected	: 11/30/18 10:10
Client ID	: CB-01	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/04/18 14:12
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,9010C	Analyst	: LHK
Lab File ID	: --	Instrument ID	:
Sample Amount	:	%Solids	: 73
Digestion Method	: NO PREP	Date Digested	: 12/03/18

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
57-12-5	Cyanide, Amenable	ND	1.4	1.4	U

Form 1
WETCHEM

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-06	Date Collected	: 11/30/18 12:00
Client ID	: DUP-01	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/04/18 13:53
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,9010C/9012B	Analyst	: LHK
Lab File ID	: OM_12-4-2018_12-52-41PM	Instrument ID	: LACHAT
Sample Amount	: 1.0634g	%Solids	: 49
Digestion Method	:	Date Digested	: 12/03/18

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
57-12-5	Cyanide, Total	1.2	1.9	0.41	J J-

Form 1
WETCHEM

Client	: CHA Companies	Lab Number	: L1849060
Project Name	: 700 SMITH BLVD	Project Number	: 29852.1202.44000
Lab ID	: L1849060-06	Date Collected	: 11/30/18 12:00
Client ID	: DUP-01	Date Received	: 11/30/18
Sample Location	: PORT OF ALBANY	Date Analyzed	: 12/04/18 14:12
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,9010C	Analyst	: LHK
Lab File ID	: --	Instrument ID	:
Sample Amount	:	%Solids	: 49
Digestion Method	: NO PREP	Date Digested	: 12/03/18

		mg/kg			
CAS NO.	Parameter	Results	RL	MDL	Qualifier
57-12-5	Cyanide, Amenable	ND	2.0	2.0	U