



VIA ELECTRONIC MAIL

October 9, 2014

Ms. Karen Cahill
New York State Department of Environmental Conservation
Region 7
615 Erie Blvd. West
Syracuse, NY 13204

Re: Summary of Redevelopment and Groundwater Resampling Activities
Emerson Power Transmission Ithaca, New York

Dear Karen:

On behalf of Emerson, WSP USA Corp. is submitting this letter report which presents a summary of the groundwater resampling activities conducted by WSP at the Emerson Power Transmission (EPT) facility in Ithaca, New York (Site). This involved redeveloping and sampling the 19 monitoring wells installed at the site between September 2013 and January 2014 by LaBella Associates, LLC on behalf of L Enterprises LLC, as part of an environmental due diligence. The work was conducted between July 14 and August 13, 2014.

A summary of the activities is presented below. Detailed field information is presented in Table 1 and the locations of the wells are shown in Figures 1, 2, and 3.

Redevelopment, Purging, and Sampling

The redevelopment and resampling activities were conducted in accordance with procedures and methods approved by NYSDEC and consistent with WSP's Standard Operation Procedures for bedrock well development and low-flow sampling.

Water levels were recorded before redevelopment commenced to determine the volumes of water present. A surge block was used to remove any residual sediment and drilling fluids in the screened and open-hole wells and to ensure effective communication between the well screens and surrounding saturated materials. Surging was initiated above/near the water table surface and proceeded downward gradually to near the total depths of the wells. Following surging, the surge blocks were removed and typically replaced with a check valve to allow for additional purging. Due to extremely low recharge and low yields, turbidity was the primary field parameter monitored during the redevelopment and purging process.

A majority of the purging was accomplished using a suction line and check valve. Depending on the depth to water, either peristaltic pumps or bladder pumps were also used to evaluate reductions in turbidity and recharge conditions using low-flow purging and sampling protocols. Low-flow purging and sampling was successfully implemented at LBA-MW-14 and LBA-MW-44W, the only wells where recharge was sufficient to maintain water levels during purging. The means of purging and sampling at the remaining locations were generally as follows:

- Samples were collected from LBA-MW-25, LBA-MW-35, LBA-MW-42S, and LBA-MW-43N using peristaltic or bladder pumps. For these wells water levels could not be maintained but were sustained adequately to determine that field parameters were stable (indicating the recharge was representative of the aquifer) and turbidity slightly above or less than 10 NTUs.
- Samples were collected from MW-07, MW-08, MW-16, MW-30, MW-34N, MW-39, and MW-43S using peristaltic or bladder pumps following recovery of adequate water volumes. For these wells water levels could not be maintained and decreased relatively quickly during purging, and turbidities were slightly above or below 10 NTUs.
- Samples were collected from LBA-MW-13, LBA-MW-19, LBA-MW-36, and LBA-MW-41 (for VOCs) using bailers when adequate water with turbidities slightly above or below 10 NTUs had accumulated. For these wells, water levels could not be maintained, recharge was low, and turbidities were elevated. Following evacuation of water in the wells, bailers were set at depths which would intercept the minimum water levels necessary to provide sufficient volumes of water for the sample aliquots.

Wells LBA-MW-18, LBA-MW-41 and LBA-MW-44E could not be sampled following the above approaches because of low recharge and elevated turbidity. Two options to address these conditions were discussed during your visit to the Site on July 30: (1) collecting total and dissolved aliquots and (2) installing temporary wells with pre-packed screens within the existing wells prior to sample collection. Based on NYSDEC's general preference for unfiltered results for metals, WSP elected to install temporary wells.

WSP remobilized to the Site on August 11, 2014.

- On August 11, WSP collected sample aliquots for analysis of barium and cyanide from the bailer set in LBA-MW-18 on July 30. After evacuating the well, WSP installed a temporary well (refer to Table 1) and on August 13, an additional set of sample aliquots was collected.
- After evacuating LBA-MW-41 on August 11, WSP installed a temporary well (refer to Table 1) and on August 13, a sample aliquot for analysis of barium was collected.

No further action was taken at LBA-MW-44E which remained dry since July 28, 2014, when it was purged dry (Table 1).

The groundwater and quality control samples were submitted to Accutest Laboratories for analysis of VOCs, barium, and cyanide using SW-846 methods 8260, 6010, and 9012.

All development, purge, and decontamination water generated during the event was conveyed to the on-site groundwater treatment system.

Results

Tables 2a and 2b present the laboratory analytical results for samples collected from the 19 wells in December 2013 and January 2014 and the results for WSP's resampling in July and August 2014. The VOC parameters are limited to those which were reported above the NYCRR Part 703 Groundwater Standards in one or more sample. Figures 1, 2, and 3 illustrate the sample results for both events for the redeveloped wells.



Ms. Karen Cahill
October 9, 2014

The laboratory analytical and data validation reports for the resampling event are presented in Enclosure A.

Sincerely yours,

A handwritten signature in black ink, appearing to read "SH", written over a light gray rectangular background.

Scott P. Haitz
Vice President

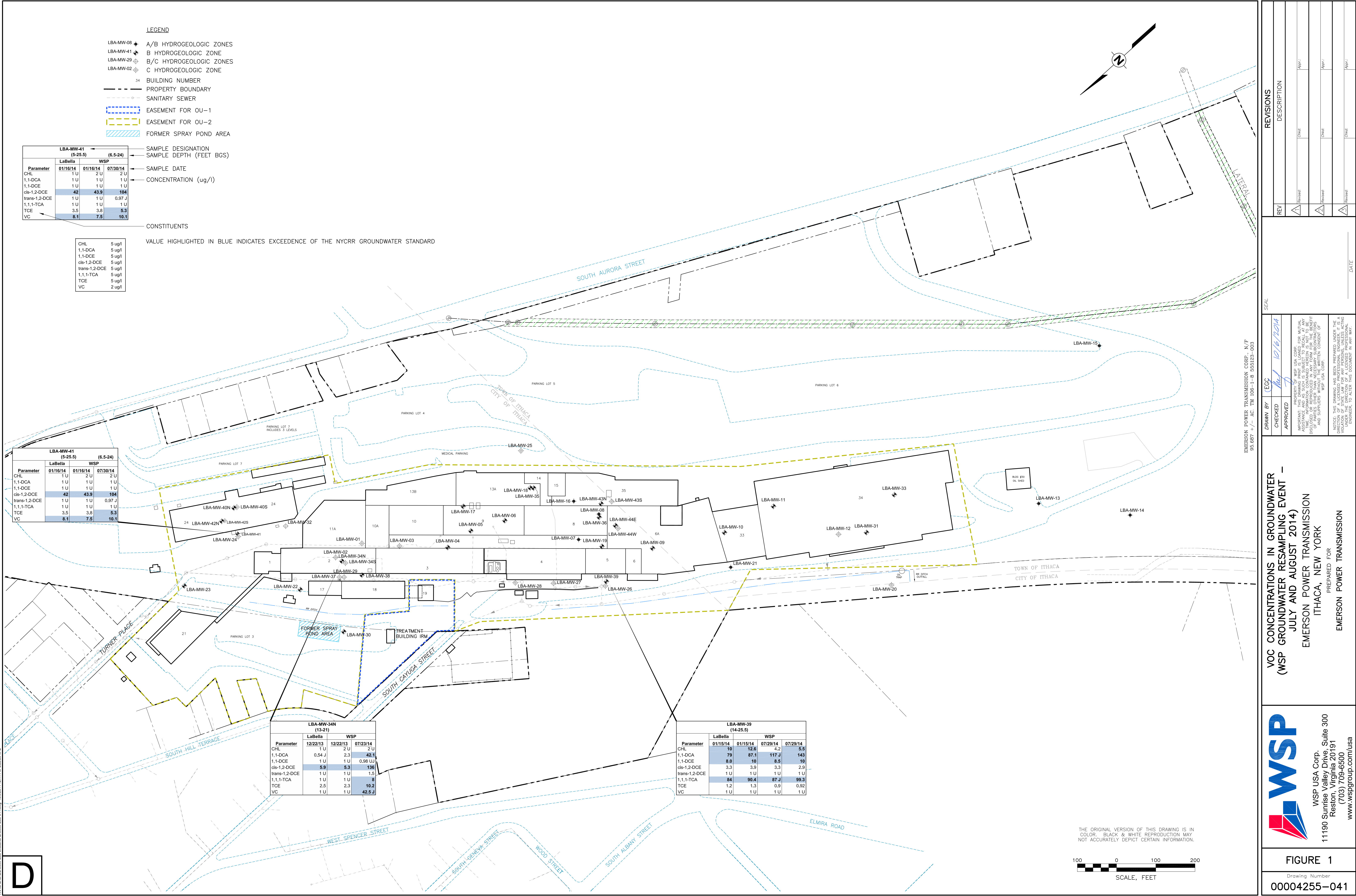
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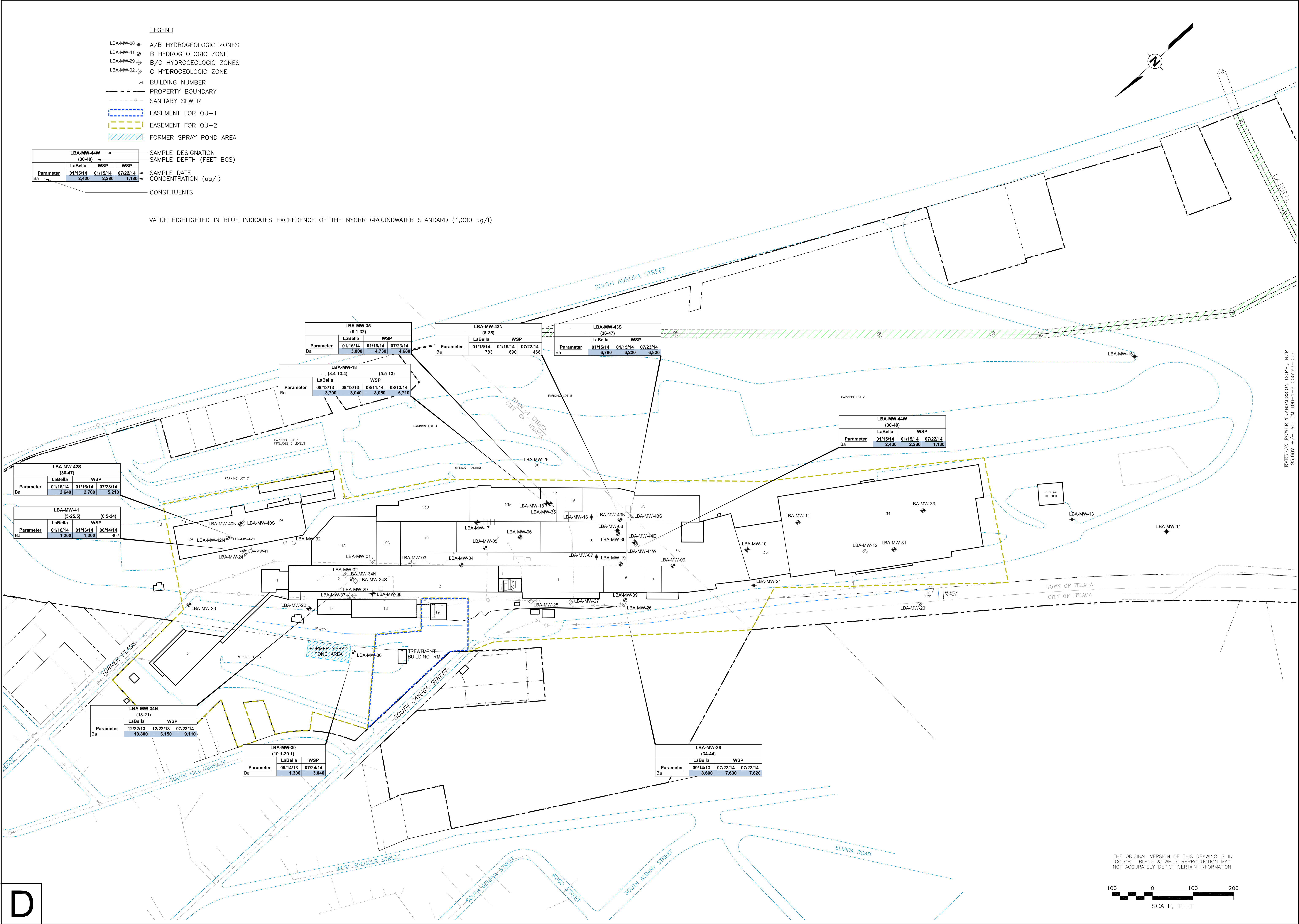
k:\emerson\lithaca\real estate\labella due diligence\july 2014 groundwater work\letter to nysdec

Enclosures

cc/encl: Derek Chase, Emerson

Figures





REVISIONS

REV	DESCRIPTION
1	Initial Issue
2	Revised
3	Revised
4	Revised
5	Revised

SEAL

DRAWN BY

CHECKED

APPROVED

DATE

10/16/2014

BARIUM CONCENTRATIONS IN GROUNDWATER
(WSP GROUNDWATER RESAMPLING EVENT –
JULY AND AUGUST 2014)

EMERSON POWER TRANSMISSION
ITHACA, NEW YORK

PREPARED FOR
EMERSON POWER TRANSMISSION

WSP USA Corp.
1190 Sunrise Valley Drive, Suite 300
Reston, Virginia 20191
(703) 709-6500
www.wspgroup.com/usa

FIGURE 2

Drawing Number

00004255-041

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Tables

Table 1

Summary of Well Redevelopment and Groundwater Resampling Activities
Emerson Power Transmission
Ithaca, New York (a)

Well	Well Construction			Initial Conditions (b)			Volume Surged/ Purged (gal)	Evaluation Start Date	Sample Collection						Laboratory Analyses	Remarks	
	Diameter (in)	Screened Interval (feet bgs)	Monitored Horizon	Total Depth (feet TOC)	Water Level (feet TOC)	Water Volume (gal)			End Purge		Sample Collection		Water Level Prior to Collection (feet TOC)	Sample Method			Sample NTU
									Date	Time	Date	Time					
MW-07	2	3 - 18	A/B	18.0	13.25	0.8	9	07/15/14	07/22/14	>11:06	07/22/14	12:30	14.58	P	1.64 (c)	CN ⁻	surge water initially turbid, then clearing with 4 gals removed; switch to peristaltic to evaluate reduction in NTU and recharge, NTU drops further; water level not maintained, NTU <15; evacuate well and allow to recover before sample collection
MW-08	2	3.7 - 18.7	A/B	18.68	5.60	2.1	>14	07/15/14	07/22/14	>13:07	07/23/14	08:00	9.69	P	8.06 (c)	CN ⁻	surge water initially gray/murky; purge water initially with a petroleum odor and staining on tubing; after 8 gals purged, water yellow tinged but clear and remains so through sample collection; typically purged to dry; switch to peristaltic to evaluate reduction in NTU and recharge; water level not maintained, NTU <10; evacuate well and allow to recover before sample collection
MW-13	2	17.5 - 27.5	A/B	27.51	21.13	1.0	17	07/16/14	07/22/14	09:50	07/23/14	11:00	NR	B	15.1 (c)	CN ⁻	surge water, then purge water ±50 NTU through 5 gals removed; switch to peristaltic to evaluate reduction in NTU and recharge; does not maintain water level during final purge, NTU to 10 before rising; bailer set near top of anticipated water column to reduce NTU and collect water over time; due to poor recharge, two attempts required to fill sample bottle
MW-14	2	30 - 40	A/B	40.03	31.78	1.3	>7	07/16/14	07/24/14	11:00	07/24/14	11:05	35.62	BP	8.4	CN ⁻	surge water, then purge water remained turbid through 7 gals removed; switch to bladder pump to evaluate reduction in NTU and recharge; low-flow successful
MW-16	2	5.7 - 15.7	A/B	15.67	5.42	1.7	>15	07/14/14	07/23/14	14:00	07/23/14	15:40	NR	P	12.9	CN ⁻	surge water, then purge water turbid (opaque) through 15 gals removed; peristaltic used to evaluate reduction in NTU and recharge; water level not maintained, <15 NTU; evacuate well and allow to recover before sample collection
MW-18	2	3.5 - 13.5	B	13.49	5.84	1.2	>7	07/21/14	07/30/14	15:10	08/11/14	12:45	8.72	B	10.3	Ba, CN ⁻	surge water, then purge water increasingly turbid (>1,000 NTU) through 4.5 gals removed; switch to peristaltic to evaluate reduction in NTU and recharge, NTUs dropped to ±100; set bailer near top of anticipated water column to reduce turbidity and collect water over time; no improvement observed over several events including additional peristaltic purging; bailer set near top of water column to reduce NTU and collect water over time
							>8		08/11/14	>12:45	08/11/13	11:00 Ba 12:22 CN ⁻	12.88	B	10.37 Ba 13.9 CN ⁻ (c)	Ba, CN ⁻	evaluate water level and NTUs, purge well dry; install (from bottom to top): 0.6-foot long sediment trap, 7.5-ft long prepack screen (fine), and riser to ground surface on 08/11/14; 776 NTU in bailer set near top of water column on 08/12/14; reduced NTU in bailer on 08/13/14 and sufficient water to collect samples
MW-19	2	4.8 - 12.8	B	12.78	7.05	0.9	12.5	07/15/14	07/15/14	NR	07/28/14	14:30	7.03	B	9.74	CN ⁻	surge water, then purge water turbid through 10 gals removed; switch to peristaltic to evaluate reduction in NTU and recharge; water clears up with additional 2.5 gals removed by peristaltic; thereafter, water level does not recover sufficient for sampling through 07/23/14 (11.87 feet TOC); set bailer near top of anticipated water column to reduce turbidity and collect water over time
MW-26	2	30 - 40	C	40.11	25.53	2.4	>11	07/16/14	07/22/14	08:50	07/22/14	08:50	27.85	BP	6.14	Ba	surge water, then purge water generally turbid through 8 gals removed, then begins to clear; bladder pump used to evaluate reduction in NTU and recharge; water level not maintained during final purge but field parameters stabilized and <10 NTU
MW-30	2	10.1 - 20.1	B	24.65	10.59	2.3	>7.5	07/17/14	07/23/14	11:20	07/24/14	09:30	16.05	P	8.42	Ba	surge water, then purge water turbid (>100 NTU) through 5.5 gals removed; NTUs dropped to <50 through 7.5 gals removed; switch to peristaltic to evaluate reduction in NTU and recharge; evacuate well and allow to recover before sample collection
MW-34N	2	4 - 20.5	B	20.47	12.49	1.3	>8	07/17/14	07/22/14	14:33	07/23/14	10:30	13.67	P	6.45	Ba	surge water, then purge water <25 NTU through 7 gals removed; switch to peristaltic to evaluate reduction in NTU and recharge; water level not maintained, <20 NTU; evacuate well and allow to recover before sample collection
							>9		07/23/14	NR	07/23/14	12:00	NR	P	NR (d)	VOCs	request for VOCs followed Ba collection; evacuate well and allow well to recover before sample collection
MW-35	4	5.1 - 32	B	33.8	8.80	18.3	>23	07/21/14	07/23/14	09:45	07/23/14	09:50	12.07	P	2.0	Ba, CN ⁻	surge and purge 10 gals, but not to dry (< 5 feet of water with 140 NTU); NTUs decrease to "clear" following additional 10 gal purge; switch to peristaltic to evaluate reduction in NTU and recharge; water level not maintained during final purge but field parameters stabilized and <10 NTU
MW-36	4	7 - 36	B	36.33	16.52	12.9	>20	07/15/14	07/24/14	>08:05	07/29/14	17:55	29.30	B	8.21 (c)	CN ⁻	surge water initially clear, becoming cloudy (rock fines), slight yellow tinge; purge water continues to be semi-opaque through 15 gals removed; switch to peristaltic to evaluate reduction in NTU and recharge; water level not maintained, <25 NTU; purge dry; set bailer near top of anticipated water column to reduce NTU and collect water over time
MW-39	4	14 - 25	B	24.92	16.58	5.4	>20	07/16/14	07/29/14	11:44	07/29/14	14:00	<23.4	P	6.54	VOCs	surge water, then purge water turbid (>100 NTU) through 1.57 gals removed; petroleum sheen and odor through out 5.5 gals surged; switch to peristaltic to evaluate reduction in NTU and recharge, but NTU in range of 40 for prolonged period; set bailer near water top of anticipated water column to reduce turbidity and collect water over time; subsequently decide not to sample for CN ⁻ ; use peristaltic to evacuate well and allow to recover before sample collection

Table 1 (continued)

Summary of Well Redevelopment and Groundwater Resampling Activities
Emerson Power Transmission
Ithaca, New York

Well	Well Construction			Initial Conditions			Volume Surged/ Purged (gal)	Evaluation Start Date	Sample Collection						Laboratory Analyses	Remarks	
	Screened			Total Depth (feet TOC)	Water Level (feet TOC)	Water Volume (gal)			End Purge		Sample Collection		Water Level Prior to Collection (feet TOC)	Sample Method			Sample NTU
	Diameter (in)	Interval (feet bgs)	Monitored Horizon						Date	Time	Date	Time					
MW-41	4	5 - 25	B	24.74	7.33	11.3	>17 >22	07/16/14	07/16/14	>15:00	07/30/14	>15:00	>24.18	B	NR (d)	VOCs	surge water, then purge water turbid (>100 NTU) through 15 gals removed; turbidity rises to >250 NTU at 16 and 17 gals removed; switch to peristaltic to evaluate reduction in NTU and recharge does not maintain water level, but <25 NTU; purge dry with poor recovery; set bailer near top of anticipated water column to reduce turbidity and collect water over time; only successful at accumulating sufficient water for VOC aliquots
									08/12/14	±12:30	08/13/14	11:50	22.03	B	5.12	Ba	08/11/14, water in bailer, 64.8 NTU; purge well dry; install (from bottom to top): 12-inch long sediment trap, 17-ft long prepack screen (fine), and riser to ground surface; purge dry; set bailer near top of anticipated water column to reduce turbidity and collect water over time
MW-42S	2	36 - 46	B/C	45.53	19.31	4.3	>40	07/16/14	07/23/14	15:05	07/23/14	15:10	26.45	BP	1.8	Ba	surge water turbid (<50 NTU), then purge water turbid (>800 NTU) through 38 gals removed; switch to bladder pump to evaluate reduction in NTU and recharge; water level not maintained during final purge but field parameters stabilized and <10 NTU
MW-43N	4	4 - 25	B	24.54	12.11	8.1	>50	07/15/14	07/22/14	15:55	07/22/14	16:00	15.75	P	0.5	Ba, CN ⁻	surge water, then purge water turbid through 50 gals removed; switch to peristaltic to evaluate reduction in NTU and recharge; NTU to < 20; water level not maintained during final purge, but field parameters stabilized and <10 NTU
MW-43S	2	36 - 47	C	46.73	28.61	3.0	>19	07/15/14	07/22/14	13:10	07/23/14	07:50	>32.4	BP	1.15	Ba, CN ⁻	surge water, then purge water turbid through 7 gals removed; NTU begins to decrease at 7.5 gals; continue to purge to 12.5 gals with ±50 NTU; switch to bladder pump to evaluate reduction in NTU and recharge; water level not maintained; purge dry; allow to recover before sample collection
MW-44E	4	4 - 11	B	11.38	10.86	0.3	0.8	07/15/14	07/28/14	NR	-	-	-	-	-	-	surge removed 0.3 gal on 07/15/14; water level recovered to 11.29 feet TOC by 07/21/14; 0.5 gal purged on 07/28/14 with 60 to 90 NTUs; no water recovered thereafter through 08/11/14
MW-44W	2	29 - 38	C	39.42	25.70	2.2	>54	07/15/14	07/22/14	11:05	07/22/14	11:05	26.90	BP	2.1	Ba, CN ⁻	surge water in the range of 100 NTU; foot valve inadequate for purge, switch to bailer; NTU drops notably after 42 gals purged; switch to bladder pump to evaluate recharge and NTU; low flow successful

a\ in = inches; bgs = below ground surface; TOC = top of casing; gal = gallon; NTU = nephelometric unit;
P = peristaltic; B = bailer; BP = bladder pump; NR = not recorded; VOC = volatile organic compound;
"-" indicates not applicable.
b\ Water levels recorded on July 14, 2014, except for LBA-MW-30 which was measured on July 15, 2014.
The depth to water is provided for LBA-MW-35; the depth to oil measured at that time was 8.79 feet TOC.
c\ NTU is an average; typically based on a readings recorded on commencing and finishing sample collection.
d\ Although not recorded, the NTU would have been <10 NTU for sample collection.

Table 2a

**Confirmatory Groundwater Sample Results
(Volatile Organic Compounds)
Emerson Power Transmission
Ithaca, New York (a)**

Parameters	NYCRR Part 703 Groundwater Standards (d)	Location: LBA-MW-34N			LBA-MW-39				LBA-MW-41		
		Sample Interval (feet bgs): 13-21			14-25.5				5-25.5		
		WSP	LaBella	WSP	WSP	LaBella	WSP	WSP	WSP	LaBella	WSP
		Date Sampled: 12/22/13	12/22/13	07/23/14	01/15/14	01/15/14	07/29/14 (b)	07/29/14 (b)	01/16/14	01/16/14	07/30/14 (c)
VOCs (ug/l)											
Chloroethane	5	2 U (e)	1 U	2 U	12.6	10	4.2	5.5	2 U	1 U	2 U
1,1-Dichloroethane	5	2.3	2.4	42.1	87.1	79	117 J	143	1 U	1 U	1 U
1,1-Dichloroethene	5	1 U	1 U	0.98 UJ	10	8	8.5	10	1 U	1 U	1 U
cis-1,2-Dichloroethene	5	5.3	5.9	136	3.9	3.3	3.3	2.9	43.9	42	104
trans-1,2-Dichloroethene	5	1 U	1 U	1.5	1 U	1 U	1 U	1 U	1 U	1 U	0.97 J
1,1,1-Trichloroethane	5	1 U	1 U	8	90.4	84	87 J	99.3	1 U	1 U	1 U
Trichloroethene	5	2.3	2.5	10.2	1.3	1.2	0.9 J	0.92 J	3.8	3.5	5.3
Vinyl chloride	2	1 U	1 U	42.5 J	1 U	1 U	1 U	1 U	7.5	8.1	10.1

Value shown in shaded bold italics indicates concentration exceeds criterion

a/ NYCRR = New York Codes, Rules, and Regulations; VOC = volatile organic compound; feet bgs = feet below ground surface; ug/l = micrograms per liter; "-" indicates analysis not performed or not applicable.

Laboratory reporting limits provided in table; method detection limits provided in data deliverables.

b/ Sample and duplicate. The duplicate of LBA-MW-39 is identified as LBA-MW-49 on the chain-of-custody form and laboratory deliverable.

c/ The VOC aliquot from LBA-MW-41 was collected on 07/30/14; the cyanide aliquot was collected on 08/13/14 following purging of the well and setting a prepack screen between 6.5 and 24 feet bgs on 08/11/14 (Table 2b).

d/ Source: <http://www.dec.ny.gov/regs/4590.html>.

e/ Data Qualifiers:

U = constituent not detected at the reporting limit noted

J = estimate concentration below the reporting and method detection limits

Table 2b

Confirmatory Groundwater Sample Results
(Barium and Cyanide)
Emerson Power Transmission
Ithaca, New York (a)

Parameters	NYCRR Part 703 Groundwater Standards (c)	Location: Screened Interval (feet bgs):		LBA-MW-07		LBA-MW-08		LBA-MW-13			LBA-MW-14			LBA-MW-16			LBA-MW-18			
		3.5-18.5		3.4-18.4		15-25			28.5-38.5			3.1-13.1			3.4-13.4					
		Sampling Entity:		LaBella	WSP	LaBella	WSP	WSP	LaBella	WSP	WSP	LaBella	WSP	WSP	LaBella	WSP	WSP	LaBella	WSP	
		Date Sampled:		09/09/13	07/22/14	09/10/13	07/23/14	09/11/13	09/11/13	07/23/14	09/11/13	09/11/13	07/24/14	09/12/13	09/12/13	07/23/14	09/13/13	09/13/13	08/11/14 (b)	08/13/14 (b)
Barium (ug/l)	1,000	860	-	760	-	170	150	-	239	160	-	724	650	-	3,040	3,700	8,050	5,710		
Cyanide (mg/l)	0.2	0.35	0.67	8	8.4	1.3	1	2.1	0.37	0.33	0.31	0.62	0.88	0.58	0.62	0.57	0.71	0.62		

Parameters	Location:		LBA-MW-19			LBA-MW-26			LBA-MW-30			LBA-MW-34N			LBA-MW-35			LBA-MW-36			
	Sample Interval (feet bgs):		3-11			34-44			15-25			13-21			5.1-32			7-35			
	Sampling Entity:		LaBella	WSP		LaBella	WSP	WSP		LaBella	WSP		WSP	LaBella	WSP		WSP	LaBella	WSP		
	Date Sampled:		11/26/13	07/28/14		09/14/13	07/22/14 (d)	07/22/14 (d)		09/16/13	07/24/14		12/22/13	12/22/13	07/23/14		01/16/14	01/16/14	07/23/14		
	NYCRR Part 703 Groundwater Standards																				
Barium (ug/l)	1,000	180	-		8,600	7,630	7,820		1,300	3,040		6,150	10,800	9,110		4,730	3,800	4,680	689	802	-
Cyanide (mg/l)	0.2	0.31	1.0		0.053	-	-		0.11	-		-	-	-		0.6	0.59	0.4	12.2	8.8	2.1

Parameters	NYCRR Part 703 Groundwater Standards	Location: Sample Interval (feet bgs): Sampling Entity: Date Sampled:			LBA-MW-41			LBA-MW-42S			LBA-MW-43N				LBA-MW-43S			LBA-MW-44E			LBA-MW-44W		
		5-25.5			36-46			8-25				36-47			30-40			30-40					
		WSP	LaBella	WSP	WSP	LaBella	WSP	WSP	LaBella	WSP	WSP	WSP	LaBella	WSP	WSP	LaBella	WSP	WSP	LaBella	WSP			
		01/16/14	01/16/14	07/30/14 (e)	01/16/14	01/16/14	07/23/14	01/15/14	01/15/14	07/22/14 (f)	07/22/14 (f)	01/15/14	01/15/14	07/23/14	01/17/14	01/17/14	- (g)	01/15/14	01/15/14	07/22/14			
Barium (ug/l)	1,000	1,300	1,300	902	2,700	2,640	5,210	690	783	466	-	6,230	6,780	6,830	-	283	-	2,280	2,430	1,180			
Cyanide (mg/l)	0.2	-	-	-	-	-	-	2.6	2.3	2.4	2.4	0.38	0.4	0.83	0.69	0.56	-	0.82	0.65	1			

Value shown in shaded bold italics indicates concentration exceeds criterion

a/ NYCRR = New York Codes, Rules, and Regulations; feet bgs = feet below ground surface; ug/l = micrograms per liter; mg/l = milligrams per liter; "-" indicates analysis not performed or not applicable.
Laboratory reporting limits provided in table; method detection limits provided in data deliverables.

b/ Aliquots were collected from LBA-MW-18 on 08/11/14 following purging of the well on 07/30/14; aliquots were also collected on 08/13/14 following purging of the well and setting a prepack screen between 5.5 and 13 feet bgs on 08/11/14.

c/ Source: <http://www.dec.ny.gov/regs/4590.html>.

d/ Sample and duplicate. The duplicate for LBA-MW-26 is identified as LBA-MW-126 on the chain-of-custody form and laboratory deliverable.

e/ The volatile organic compound aliquot from LBA-MW-41 was collected on 07/30/14 (Table 2a); the cyanide aliquot was collected on 08/13/14 following purging of the well and setting a prepack screen between 6.5 and 24 feet bgs on 08/11/14.

f/ Sample and duplicate. The duplicate of LBA-MW-43N is identified as LBA-MW-43I on the chain-of-custody form and laboratory deliverable.

g/ No water was present in LBA-MW-44E from 07/30/14 through 08/13/14; thus a confirmatory sample could not be collected for analysis of cyanide.

Enclosure A



07/30/14

Technical Report for

WSP Environment & Energy

Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

4255/06

Accutest Job Number: MC32345

Sampling Dates: 07/22/14 - 07/23/14

Report to:

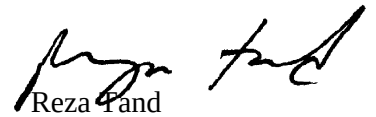
WSP Environment & Energy
750 Holiday Drive Suite 410
Pittsburg, PA 15220
martha.fleming@wspgroup.com; lisa.bryda@wspgroup.com

ATTN: Martha Fleming

Total number of pages in report: **275**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.


Reza Fand
Lab Director

Client Service contact: Frank DAgostino 508-481-6200

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Test results relate only to samples analyzed.

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Sample Summary

WSP Environment & Energy

Job No: MC32345

Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Project No: 4255/06

Sample Number	Collected			Received	Matrix		Client Sample ID
	Date	Time	By		Code	Type	
MC32345-1	07/22/14	16:00	MC	07/24/14	AQ	Ground Water	LBA-MW-43N
MC32345-2	07/22/14	18:30	MC	07/24/14	AQ	Ground Water	LBA-MW-431
MC32345-3	07/22/14	08:50	MC	07/24/14	AQ	Ground Water	LBA-MW-26
MC32345-4	07/22/14	08:50	MC	07/24/14	AQ	Ground Water	LBA-MW-126
MC32345-5	07/22/14	11:05	MC	07/24/14	AQ	Ground Water	LBA-MW-44W
MC32345-5D	07/22/14	11:05	MC	07/24/14	AQ	Water Dup/MSD	LBA-MW-44W
MC32345-5S	07/22/14	11:05	MC	07/24/14	AQ	Water Matrix Spike	LBA-MW-44W
MC32345-6	07/22/14	12:30	MC	07/24/14	AQ	Ground Water	LBA-MW-07
MC32345-7	07/23/14	09:50	MC	07/24/14	AQ	Ground Water	LBA-MW-35
MC32345-8	07/23/14	07:50	MC	07/24/14	AQ	Ground Water	LBA-MW-43S
MC32345-9	07/23/14	08:00	MC	07/24/14	AQ	Ground Water	LBA-MW-08
MC32345-10	07/23/14	10:30	MC	07/24/14	AQ	Ground Water	LBA-MW-34N
MC32345-11	07/23/14	09:00	MC	07/24/14	AQ	Ground Water	LBA-MW-13



Sample Summary
(continued)

WSP Environment & Energy

Job No: MC32345

Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY
Project No: 4255/06

Sample Number	Collected		Matrix			Client Sample ID
	Date	Time By	Received	Code	Type	
MC32345-12	07/23/14	12:00 MC	07/24/14	AQ	Ground Water	LBA-MW-34N
MC32345-13	07/23/14	00:00 MC	07/24/14	AQ	Trip Blank Water	TRIP BLANKS



SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: WSP Environment & Energy

Job No MC32345

Site: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca,

Report Date 7/30/2014 9:52:32 AM

12 Sample(s), 1 Trip Blank(s) and 0 Field Blank(s) were collected on between 07/22/2014 and 07/23/2014 and were received at Accutest on 07/24/2014 properly preserved, at 0.8 Deg. C and intact. These Samples received an Accutest job number of MC32345. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260C

Matrix: AQ

Batch ID: MSH2253

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC32345-12MS, MC32345-12MSD were used as the QC samples indicated.
- Continuing calibration check standard MSH2253-CC2244 for chloromethane exceed 40% Difference (results biased high). Associated samples are non-detect for these compounds.

Metals By Method SW846 6010C

Matrix: AQ

Batch ID: MP23398

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC32345-5MS, MC32345-5MSD, MC32345-5SDL were used as the QC samples for metals.

Wet Chemistry By Method SW846 9012

Matrix: AQ

Batch ID: GP17921

- All samples were distilled within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC32345-5DUP, MC32345-5MS were used as the QC samples for Cyanide.
- Matrix Spike Recovery(s) for Cyanide are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(MC32345).

Summary of Hits

Page 1 of 2

Job Number: MC32345

Account: WSP Environment & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Collected: 07/22/14 thru 07/23/14



Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC32345-1	LBA-MW-43N					
Barium		466	50	2.0	ug/l	SW846 6010C
Cyanide		2.4	0.20		mg/l	SW846 9012
MC32345-2	LBA-MW-431					
Cyanide		2.4	0.20		mg/l	SW846 9012
MC32345-3	LBA-MW-26					
Barium		7630	50	2.0	ug/l	SW846 6010C
MC32345-4	LBA-MW-126					
Barium		7820	50	2.0	ug/l	SW846 6010C
MC32345-5	LBA-MW-44W					
Barium		1180	50	2.0	ug/l	SW846 6010C
Cyanide		1.0	0.10		mg/l	SW846 9012
MC32345-6	LBA-MW-07					
Cyanide		0.67	0.020		mg/l	SW846 9012
MC32345-7	LBA-MW-35					
Barium		4680	50	2.0	ug/l	SW846 6010C
Cyanide		0.40	0.010		mg/l	SW846 9012
MC32345-8	LBA-MW-43S					
Barium		6830	50	2.0	ug/l	SW846 6010C
Cyanide		0.83	0.050		mg/l	SW846 9012
MC32345-9	LBA-MW-08					
Cyanide		8.4	0.40		mg/l	SW846 9012
MC32345-10	LBA-MW-34N					
Barium		9110	50	2.0	ug/l	SW846 6010C

Summary of Hits

Page 2 of 2

Job Number: MC32345

Account: WSP Environment & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Collected: 07/22/14 thru 07/23/14



Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

MC32345-11 LBA-MW-13

Cyanide	2.1	0.20		mg/l	SW846 9012

MC32345-12 LBA-MW-34N

1,1-Dichloroethane	42.1	1.0	0.36	ug/l	SW846 8260C
1,1-Dichloroethene	0.98 J	1.0	0.61	ug/l	SW846 8260C
cis-1,2-Dichloroethene	136	1.0	0.84	ug/l	SW846 8260C
trans-1,2-Dichloroethene	1.5	1.0	0.51	ug/l	SW846 8260C
1,1,1-Trichloroethane	8.0	1.0	0.46	ug/l	SW846 8260C
Trichloroethene	10.2	1.0	0.47	ug/l	SW846 8260C
Vinyl chloride	42.5	1.0	0.58	ug/l	SW846 8260C

MC32345-13 TRIP BLANKS

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	LBA-MW-43N	Date Sampled:	07/22/14
Lab Sample ID:	MC32345-1	Date Received:	07/24/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Barium	466	50	2.0	ug/l	1	07/25/14	07/28/14 EAL	SW846 6010C ¹	SW846 3010A ²

(1) Instrument QC Batch: MA17389
(2) Prep QC Batch: MP23398

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	LBA-MW-43N	Date Sampled:	07/22/14
Lab Sample ID:	MC32345-1	Date Received:	07/24/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	2.4	0.20	mg/l	20	07/25/14 13:10	MA	SW846 9012

RL = Reporting Limit

4.1
4

Report of Analysis

Client Sample ID:	LBA-MW-431	Date Sampled:	07/22/14
Lab Sample ID:	MC32345-2	Date Received:	07/24/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	2.4	0.20	mg/l	20	07/25/14 13:11	MA	SW846 9012

RL = Reporting Limit

4.2
4

Report of Analysis

Client Sample ID:	LBA-MW-26	Date Sampled:	07/22/14
Lab Sample ID:	MC32345-3	Date Received:	07/24/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Barium	7630	50	2.0	ug/l	1	07/25/14	07/28/14 EAL	SW846 6010C ¹	SW846 3010A ²

(1) Instrument QC Batch: MA17389
(2) Prep QC Batch: MP23398

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

4.3
4

Report of Analysis

Client Sample ID:	LBA-MW-126	Date Sampled:	07/22/14
Lab Sample ID:	MC32345-4	Date Received:	07/24/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Barium	7820	50	2.0	ug/l	1	07/25/14	07/28/14 EAL	SW846 6010C ¹	SW846 3010A ²

(1) Instrument QC Batch: MA17389
(2) Prep QC Batch: MP23398

RL = Reporting Limit
MDL = Method Detection Limit
U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

4.4
4

Report of Analysis

Client Sample ID:	LBA-MW-44W	Date Sampled:	07/22/14
Lab Sample ID:	MC32345-5	Date Received:	07/24/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Barium	1180	50	2.0	ug/l	1	07/25/14	07/28/14 EAL	SW846 6010C ¹	SW846 3010A ²

(1) Instrument QC Batch: MA17389
(2) Prep QC Batch: MP23398

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

4.5
4

Report of Analysis

Client Sample ID:	LBA-MW-44W	Date Sampled:	07/22/14
Lab Sample ID:	MC32345-5	Date Received:	07/24/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	1.0	0.10	mg/l	10	07/25/14 13:09	MA	SW846 9012

RL = Reporting Limit

4.5
4

Report of Analysis

Client Sample ID:	LBA-MW-07	Date Sampled:	07/22/14
Lab Sample ID:	MC32345-6	Date Received:	07/24/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	0.67	0.020	mg/l	2	07/25/14 13:12	MA	SW846 9012

RL = Reporting Limit

4.6
4

Report of Analysis

Client Sample ID:	LBA-MW-35	Date Sampled:	07/23/14
Lab Sample ID:	MC32345-7	Date Received:	07/24/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Barium	4680	50	2.0	ug/l	1	07/25/14	07/28/14 EAL	SW846 6010C ¹	SW846 3010A ²

(1) Instrument QC Batch: MA17389
(2) Prep QC Batch: MP23398

RL = Reporting Limit
MDL = Method Detection Limit
U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

4.7
4

Report of Analysis

Client Sample ID:	LBA-MW-35	Date Sampled:	07/23/14
Lab Sample ID:	MC32345-7	Date Received:	07/24/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	0.40	0.010	mg/l	1	07/25/14 13:00	MA	SW846 9012

RL = Reporting Limit

Report of Analysis

Client Sample ID:	LBA-MW-43S	Date Sampled:	07/23/14
Lab Sample ID:	MC32345-8	Date Received:	07/24/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Barium	6830	50	2.0	ug/l	1	07/25/14	07/28/14 EAL	SW846 6010C ¹	SW846 3010A ²

(1) Instrument QC Batch: MA17389
(2) Prep QC Batch: MP23398

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

4.8
4

Report of Analysis

Client Sample ID:	LBA-MW-43S	Date Sampled:	07/23/14
Lab Sample ID:	MC32345-8	Date Received:	07/24/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	0.83	0.050	mg/l	5	07/25/14 13:13	MA	SW846 9012

RL = Reporting Limit

4.8
4

Report of Analysis

Client Sample ID:	LBA-MW-08	Date Sampled:	07/23/14
Lab Sample ID:	MC32345-9	Date Received:	07/24/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	8.4	0.40	mg/l	40	07/25/14 13:16	MA	SW846 9012

RL = Reporting Limit

4.9
4

Report of Analysis

Client Sample ID:	LBA-MW-34N	Date Sampled:	07/23/14
Lab Sample ID:	MC32345-10	Date Received:	07/24/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Barium	9110	50	2.0	ug/l	1	07/25/14	07/28/14 EAL	SW846 6010C ¹	SW846 3010A ²

(1) Instrument QC Batch: MA17389
(2) Prep QC Batch: MP23398

RL = Reporting Limit
MDL = Method Detection Limit
U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

4.10
4

Report of Analysis

Client Sample ID:	LBA-MW-13	Date Sampled:	07/23/14
Lab Sample ID:	MC32345-11	Date Received:	07/24/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	2.1	0.20	mg/l	20	07/25/14 13:17	MA	SW846 9012

RL = Reporting Limit

4.11
4

Accutest Laboratories

Report of Analysis

Page 1 of 2

Client Sample ID:	LBA-MW-34N	Date Sampled:	07/23/14
Lab Sample ID:	MC32345-12	Date Received:	07/24/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H67787.D	1	07/28/14	AMY	n/a	n/a	MSH2253
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.9	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.87	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	42.1	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	0.98	1.0	0.61	ug/l	J
156-59-2	cis-1,2-Dichloroethene	136	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	1.5	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	LBA-MW-34N	Date Sampled:	07/23/14
Lab Sample ID:	MC32345-12	Date Received:	07/24/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY		

VOA TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	8.0	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	10.2	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	42.5	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		70-130%
2037-26-5	Toluene-D8	105%		70-130%
460-00-4	4-Bromofluorobenzene	107%		70-130%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Page 1 of 2

Client Sample ID:	TRIP BLANKS	Date Sampled:	07/23/14
Lab Sample ID:	MC32345-13	Date Received:	07/24/14
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H67786.D	1	07/28/14	AMY	n/a	n/a	MSH2253
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.9	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.87	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANKS	Date Sampled:	07/23/14
Lab Sample ID:	MC32345-13	Date Received:	07/24/14
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY		

VOA TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		70-130%
2037-26-5	Toluene-D8	105%		70-130%
460-00-4	4-Bromofluorobenzene	109%		70-130%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Misc. Forms

5

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

Page 1 of 1

5.1

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Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC32345 **Client:** WSP **Immediate Client Services Action Required:** No
Date / Time Received: 7/24/2014 **Delivery Method:** **Client Service Action Required at Login:** No
Project: 4255-6 **No. Coolers:** 1 **Airbill #'s:**

Cooler Security **Y or N** **Y or N**
1. Custody Seals Present: ☒ ☐ 3. COC Present: ☒ ☐
2. Custody Seals Intact: ☒ ☐ 4. Smpl Dates/Time OK ☒ ☐

Cooler Temperature **Y or N**
1. Temp criteria achieved: ☒ ☐
2. Cooler temp verification: Infrared gun
3. Cooler media: Ice (bag)

Quality Control Preservation **Y or N** **N/A**
1. Trip Blank present / cooler: ☒ ☐ ☐
2. Trip Blank listed on COC: ☒ ☐ ☐
3. Samples preserved properly: ☒ ☐ ☐
4. VOCs headspace free: ☒ ☐ ☐

Sample Integrity - Documentation **Y or N**
1. Sample labels present on bottles: ☒ ☐
2. Container labeling complete: ☒ ☐
3. Sample container label / COC agree: ☒ ☐

Sample Integrity - Condition **Y or N**
1. Sample recvd within HT: ☒ ☐
2. All containers accounted for: ☒ ☐
3. Condition of sample: Intact

Sample Integrity - Instructions **Y or N** **N/A**
1. Analysis requested is clear: ☒ ☐
2. Bottles received for unspecified tests: ☐ ☒
3. Sufficient volume recvd for analysis: ☒ ☐
4. Compositing instructions clear: ☐ ☐ ☒
5. Filtering instructions clear: ☐ ☐ ☒

Comments

Internal Sample Tracking Chronicle

WSP Environment & Energy

Job No: MC32345

Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Project No: 4255/06

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC32345-1 Collected: 22-JUL-14 16:00 By: MC Received: 24-JUL-14 By: LBA-MW-43N						
MC32345-1	SW846 9012	25-JUL-14 13:10	MA	25-JUL-14	MA	CN
MC32345-1	SW846 6010C	28-JUL-14 11:27	EAL	25-JUL-14	KR	BA
MC32345-2 Collected: 22-JUL-14 18:30 By: MC Received: 24-JUL-14 By: LBA-MW-431						
MC32345-2	SW846 9012	25-JUL-14 13:11	MA	25-JUL-14	MA	CN
MC32345-3 Collected: 22-JUL-14 08:50 By: MC Received: 24-JUL-14 By: LBA-MW-26						
MC32345-3	SW846 6010C	28-JUL-14 11:33	EAL	25-JUL-14	KR	BA
MC32345-4 Collected: 22-JUL-14 08:50 By: MC Received: 24-JUL-14 By: LBA-MW-126						
MC32345-4	SW846 6010C	28-JUL-14 11:38	EAL	25-JUL-14	KR	BA
MC32345-5 Collected: 22-JUL-14 11:05 By: MC Received: 24-JUL-14 By: LBA-MW-44W						
MC32345-5	SW846 9012	25-JUL-14 13:09	MA	25-JUL-14	MA	CN
MC32345-5	SW846 6010C	28-JUL-14 10:53	EAL	25-JUL-14	KR	BA
MC32345-6 Collected: 22-JUL-14 12:30 By: MC Received: 24-JUL-14 By: LBA-MW-07						
MC32345-6	SW846 9012	25-JUL-14 13:12	MA	25-JUL-14	MA	CN
MC32345-7 Collected: 23-JUL-14 09:50 By: MC Received: 24-JUL-14 By: LBA-MW-35						
MC32345-7	SW846 9012	25-JUL-14 13:00	MA	25-JUL-14	MA	CN
MC32345-7	SW846 6010C	28-JUL-14 11:44	EAL	25-JUL-14	KR	BA

Internal Sample Tracking Chronicle

WSP Environment & Energy

Job No: MC32345

Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Project No: 4255/06

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC32345-8 Collected: 23-JUL-14 07:50 By: MC Received: 24-JUL-14 By: LBA-MW-43S						
MC32345-8	SW846 9012	25-JUL-14 13:13	MA	25-JUL-14	MA	CN
MC32345-8	SW846 6010C	28-JUL-14 11:50	EAL	25-JUL-14	KR	BA
MC32345-9 Collected: 23-JUL-14 08:00 By: MC Received: 24-JUL-14 By: LBA-MW-08						
MC32345-9	SW846 9012	25-JUL-14 13:16	MA	25-JUL-14	MA	CN
MC32345-10 Collected: 23-JUL-14 10:30 By: MC Received: 24-JUL-14 By: LBA-MW-34N						
MC32345-10	SW846 6010C	28-JUL-14 11:56	EAL	25-JUL-14	KR	BA
MC32345-11 Collected: 23-JUL-14 09:00 By: MC Received: 24-JUL-14 By: LBA-MW-13						
MC32345-11	SW846 9012	25-JUL-14 13:17	MA	25-JUL-14	MA	CN
MC32345-12 Collected: 23-JUL-14 12:00 By: MC Received: 24-JUL-14 By: LBA-MW-34N						
MC32345-12	SW846 8260C	28-JUL-14 12:16	AMY			V8260TCL42
MC32345-13 Collected: 23-JUL-14 00:00 By: MC Received: 24-JUL-14 By: TRIP BLANKS						
MC32345-13	SW846 8260C	28-JUL-14 11:48	AMY			V8260TCL42

Accutest Internal Chain of Custody

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Job Number: MC32345
Account: WSPEPAP WSP Environment & Energy
Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY
Received: 07/24/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC32345-1.1	Walk In Ref #9	Mehdi Abdolrahim	07/25/14 08:23	Retrieve from Storage
MC32345-1.1	Mehdi Abdolrahim	Walk In Ref #9	07/25/14 09:57	Return to Storage
MC32345-1.2	Walk In Ref #5	Kerry Ryan	07/25/14 08:31	Retrieve from Storage
MC32345-1.2	Kerry Ryan	Walk In Ref #5	07/25/14 14:51	Return to Storage
MC32345-2.1	Walk In Ref #9	Mehdi Abdolrahim	07/25/14 08:23	Retrieve from Storage
MC32345-2.1	Mehdi Abdolrahim	Walk In Ref #9	07/25/14 09:57	Return to Storage
MC32345-3.1	Walk In Ref #5	Kerry Ryan	07/25/14 08:31	Retrieve from Storage
MC32345-3.1	Kerry Ryan	Walk In Ref #5	07/25/14 14:51	Return to Storage
MC32345-4.1	Walk In Ref #5	Kerry Ryan	07/25/14 09:25	Retrieve from Storage
MC32345-4.1	Kerry Ryan	Walk In Ref #5	07/25/14 14:51	Return to Storage
MC32345-5.1	Walk In Ref #9	Mehdi Abdolrahim	07/25/14 08:23	Retrieve from Storage
MC32345-5.1	Mehdi Abdolrahim	Walk In Ref #9	07/25/14 09:57	Return to Storage
MC32345-5.4	Walk In Ref #5	Kerry Ryan	07/25/14 08:31	Retrieve from Storage
MC32345-5.4	Kerry Ryan	Walk In Ref #5	07/25/14 14:51	Return to Storage
MC32345-5.6	Walk In Ref #5	Kerry Ryan	07/25/14 08:31	Retrieve from Storage
MC32345-5.6	Kerry Ryan	Walk In Ref #5	07/25/14 14:51	Return to Storage
MC32345-6.1	Walk In Ref #9	Mehdi Abdolrahim	07/25/14 08:23	Retrieve from Storage
MC32345-6.1	Mehdi Abdolrahim	Walk In Ref #9	07/25/14 09:57	Return to Storage
MC32345-7.1	Walk In Ref #9	Mehdi Abdolrahim	07/25/14 08:23	Retrieve from Storage
MC32345-7.1	Mehdi Abdolrahim	Walk In Ref #9	07/25/14 09:57	Return to Storage
MC32345-7.2	Walk In Ref #5	Kerry Ryan	07/25/14 08:31	Retrieve from Storage
MC32345-7.2	Kerry Ryan	Walk In Ref #5	07/25/14 14:51	Return to Storage
MC32345-8.1	Walk In Ref #9	Mehdi Abdolrahim	07/25/14 08:23	Retrieve from Storage
MC32345-8.1	Mehdi Abdolrahim	Walk In Ref #9	07/25/14 09:57	Return to Storage
MC32345-8.2	Walk In Ref #5	Kerry Ryan	07/25/14 09:25	Retrieve from Storage
MC32345-8.2	Kerry Ryan	Walk In Ref #5	07/25/14 14:51	Return to Storage
MC32345-9.1	Walk In Ref #9	Mehdi Abdolrahim	07/25/14 08:23	Retrieve from Storage
MC32345-9.1	Mehdi Abdolrahim	Walk In Ref #9	07/25/14 09:57	Return to Storage
MC32345-10.1	Walk In Ref #5	Kerry Ryan	07/25/14 08:31	Retrieve from Storage
MC32345-10.1	Kerry Ryan	Walk In Ref #5	07/25/14 14:51	Return to Storage

Accutest Internal Chain of Custody

Page 2 of 2

Job Number: MC32345
Account: WSPEPAP WSP Environment & Energy
Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY
Received: 07/24/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC32345-11.1	Walk In Ref #9	Mehdi Abdolrahim	07/25/14 08:23	Retrieve from Storage
MC32345-11.1	Mehdi Abdolrahim	Walk In Ref #9	07/25/14 09:57	Return to Storage
MC32345-12.1	VOC Ref #5	Amy Min Yang	07/28/14 10:38	Retrieve from Storage
MC32345-12.1	Amy Min Yang	GCMSH	07/28/14 10:39	Load on Instrument
MC32345-12.2	VOC Ref #5	Amy Min Yang	07/28/14 12:46	Retrieve from Storage
MC32345-12.2	Amy Min Yang	GCMSH	07/28/14 12:46	Load on Instrument
MC32345-13.1	VOC Ref #5	Amy Min Yang	07/28/14 10:38	Retrieve from Storage
MC32345-13.1	Amy Min Yang	GCMSH	07/28/14 10:39	Load on Instrument

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

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Job Number: MC32345

Account: WSPEPAP WSP Environment & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2253-MB	H67784.D	1	07/28/14	AMY	n/a	n/a	MSH2253

The QC reported here applies to the following samples:

Method: SW846 8260C

MC32345-12, MC32345-13

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.9	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.87	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	

Method Blank Summary

Page 2 of 2

Job Number: MC32345**Account:** WSPEPAP WSP Environment & Energy**Project:** Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2253-MB	H67784.D	1	07/28/14	AMY	n/a	n/a	MSH2253

The QC reported here applies to the following samples:**Method:** SW846 8260C

MC32345-12, MC32345-13

CAS No.	Compound	Result	RL	MDL	Units	Q
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	106% 70-130%
2037-26-5	Toluene-D8	107% 70-130%
460-00-4	4-Bromofluorobenzene	109% 70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike Summary**Job Number:** MC32345**Account:** WSPEPAP WSP Environment & Energy**Project:** Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2253-B5	H67782.D	1	07/28/14	AMY	n/a	n/a	MSH2253

The QC reported here applies to the following samples:**Method:** SW846 8260C

MC32345-12, MC32345-13

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	42.2	84	70-130
71-43-2	Benzene	50	52.3	105	70-130
75-27-4	Bromodichloromethane	50	51.6	103	70-130
75-25-2	Bromoform	50	42.3	85	70-130
74-83-9	Bromomethane	50	49.8	100	70-130
78-93-3	2-Butanone (MEK)	50	53.9	108	70-130
75-15-0	Carbon disulfide	50	39.6	79	70-130
56-23-5	Carbon tetrachloride	50	51.9	104	70-130
108-90-7	Chlorobenzene	50	46.9	94	70-130
75-00-3	Chloroethane	50	56.4	113	70-130
67-66-3	Chloroform	50	57.2	114	70-130
74-87-3	Chloromethane	50	63.8	128	70-130
110-82-7	Cyclohexane	50	51.3	103	71-145
96-12-8	1,2-Dibromo-3-chloropropane	50	51.1	102	70-130
124-48-1	Dibromochloromethane	50	49.9	100	70-130
106-93-4	1,2-Dibromoethane	50	46.9	94	70-130
95-50-1	1,2-Dichlorobenzene	50	44.8	90	70-130
541-73-1	1,3-Dichlorobenzene	50	46.6	93	70-130
106-46-7	1,4-Dichlorobenzene	50	48.4	97	70-130
75-71-8	Dichlorodifluoromethane	50	50.5	101	70-130
75-34-3	1,1-Dichloroethane	50	58.0	116	70-130
107-06-2	1,2-Dichloroethane	50	52.0	104	70-130
75-35-4	1,1-Dichloroethene	50	46.0	92	70-130
156-59-2	cis-1,2-Dichloroethene	50	52.0	104	70-130
156-60-5	trans-1,2-Dichloroethene	50	49.4	99	70-130
78-87-5	1,2-Dichloropropane	50	58.9	118	70-130
10061-01-5	cis-1,3-Dichloropropene	50	51.9	104	70-130
10061-02-6	trans-1,3-Dichloropropene	50	48.3	97	70-130
100-41-4	Ethylbenzene	50	45.7	91	70-130
76-13-1	Freon 113	50	52.3	105	70-130
591-78-6	2-Hexanone	50	53.5	107	70-130
98-82-8	Isopropylbenzene	50	44.5	89	70-130
79-20-9	Methyl Acetate	50	55.3	111	40-137
108-87-2	Methylcyclohexane	50	47.1	94	74-143
1634-04-4	Methyl Tert Butyl Ether	50	49.8	100	70-130
108-10-1	4-Methyl-2-pentanone (MIBK)	50	58.9	118	70-130

* = Outside of Control Limits.

Blank Spike Summary

Page 2 of 2

Job Number: MC32345

Account: WSPEPAP WSP Environment & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSH2253-B5	H67782.D	1	07/28/14	AMY	n/a	n/a	MSH2253

The QC reported here applies to the following samples:

Method: SW846 8260C

MC32345-12, MC32345-13

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
75-09-2	Methylene chloride	50	51.8	104	70-130
100-42-5	Styrene	50	43.5	87	70-130
79-34-5	1,1,2,2-Tetrachloroethane	50	54.2	108	70-130
127-18-4	Tetrachloroethene	50	45.3	91	70-130
108-88-3	Toluene	50	49.4	99	70-130
120-82-1	1,2,4-Trichlorobenzene	50	40.5	81	70-130
71-55-6	1,1,1-Trichloroethane	50	49.0	98	70-130
79-00-5	1,1,2-Trichloroethane	50	53.7	107	70-130
79-01-6	Trichloroethene	50	49.2	98	70-130
75-69-4	Trichlorofluoromethane	50	51.1	102	70-130
75-01-4	Vinyl chloride	50	63.8	128	70-130
1330-20-7	Xylene (total)	150	136	91	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	113%	70-130%
2037-26-5	Toluene-D8	108%	70-130%
460-00-4	4-Bromofluorobenzene	97%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 2

Job Number: MC32345

Account: WSPEPAP WSP Environment & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC32345-12MS	H67793.D	5	07/28/14	AMY	n/a	n/a	MSH2253
MC32345-12MSD	H67794.D	5	07/28/14	AMY	n/a	n/a	MSH2253
MC32345-12	H67787.D	1	07/28/14	AMY	n/a	n/a	MSH2253

The QC reported here applies to the following samples:

Method: SW846 8260C

MC32345-12, MC32345-13

CAS No.	Compound	MC32345-12 Spike		MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
		ug/l	Q ug/l							
67-64-1	Acetone	ND	250	274	110	250	279	112	2	70-130/30
71-43-2	Benzene	ND	250	274	110	250	252	101	8	70-130/30
75-27-4	Bromodichloromethane	ND	250	261	104	250	248	99	5	70-130/30
75-25-2	Bromoform	ND	250	202	81	250	198	79	2	70-130/30
74-83-9	Bromomethane	ND	250	245	98	250	232	93	5	70-130/30
78-93-3	2-Butanone (MEK)	ND	250	291	116	250	280	112	4	70-130/30
75-15-0	Carbon disulfide	ND	250	218	87	250	219	88	0	70-130/30
56-23-5	Carbon tetrachloride	ND	250	271	108	250	253	101	7	70-130/30
108-90-7	Chlorobenzene	ND	250	243	97	250	228	91	6	70-130/30
75-00-3	Chloroethane	ND	250	275	110	250	265	106	4	70-130/30
67-66-3	Chloroform	ND	250	292	117	250	283	113	3	70-130/30
74-87-3	Chloromethane	ND	250	271	108	250	266	106	2	70-130/30
110-82-7	Cyclohexane	ND	250	276	110	250	249	100	10	60-160/30
96-12-8	1,2-Dibromo-3-chloropropane	ND	250	262	105	250	247	99	6	70-130/30
124-48-1	Dibromochloromethane	ND	250	241	96	250	238	95	1	70-130/30
106-93-4	1,2-Dibromoethane	ND	250	240	96	250	227	91	6	70-130/30
95-50-1	1,2-Dichlorobenzene	ND	250	239	96	250	223	89	7	70-130/30
541-73-1	1,3-Dichlorobenzene	ND	250	246	98	250	226	90	8	70-130/30
106-46-7	1,4-Dichlorobenzene	ND	250	257	103	250	237	95	8	70-130/30
75-71-8	Dichlorodifluoromethane	ND	250	223	89	250	210	84	6	70-130/30
75-34-3	1,1-Dichloroethane	42.1	250	337	118	250	328	114	3	70-130/30
107-06-2	1,2-Dichloroethane	ND	250	260	104	250	250	100	4	70-130/30
75-35-4	1,1-Dichloroethene	0.98	J 250	246	98	250	238	95	3	70-130/30
156-59-2	cis-1,2-Dichloroethene	136	250	385	100	250	371	94	4	70-130/30
156-60-5	trans-1,2-Dichloroethene	1.5	250	263	105	250	249	99	5	70-130/30
78-87-5	1,2-Dichloropropane	ND	250	298	119	250	286	114	4	70-130/30
10061-01-5	cis-1,3-Dichloropropene	ND	250	263	105	250	254	102	3	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND	250	244	98	250	230	92	6	70-130/30
100-41-4	Ethylbenzene	ND	250	245	98	250	225	90	9	70-130/30
76-13-1	Freon 113	ND	250	275	110	250	262	105	5	70-130/30
591-78-6	2-Hexanone	ND	250	277	111	250	259	104	7	70-130/30
98-82-8	Isopropylbenzene	ND	250	253	101	250	229	92	10	70-130/30
79-20-9	Methyl Acetate	ND	250	287	115	250	290	116	1	34-145/30
108-87-2	Methylcyclohexane	ND	250	258	103	250	233	93	10	70-130/30
1634-04-4	Methyl Tert Butyl Ether	ND	250	252	101	250	247	99	2	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	250	294	118	250	280	112	5	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 2 of 2

Job Number: MC32345

Account: WSPEPAP WSP Environment & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC32345-12MS	H67793.D	5	07/28/14	AMY	n/a	n/a	MSH2253
MC32345-12MSD	H67794.D	5	07/28/14	AMY	n/a	n/a	MSH2253
MC32345-12	H67787.D	1	07/28/14	AMY	n/a	n/a	MSH2253

The QC reported here applies to the following samples:

Method: SW846 8260C

MC32345-12, MC32345-13

CAS No.	Compound	MC32345-12 Spike ug/l	Q	ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
75-09-2	Methylene chloride	ND		250	263	105	250	260	104	1	70-130/30
100-42-5	Styrene	ND		250	219	88	250	209	84	5	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		250	300	120	250	277	111	8	70-130/30
127-18-4	Tetrachloroethene	ND		250	236	94	250	219	88	7	70-130/30
108-88-3	Toluene	ND		250	260	104	250	239	96	8	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		250	189	76	250	192	77	2	70-130/30
71-55-6	1,1,1-Trichloroethane	8.0		250	265	103	250	251	97	5	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		250	277	111	250	257	103	7	70-130/30
79-01-6	Trichloroethene	10.2		250	271	104	250	247	95	9	70-130/30
75-69-4	Trichlorofluoromethane	ND		250	254	102	250	241	96	5	70-130/30
75-01-4	Vinyl chloride	42.5		250	311	107	250	295	101	5	70-130/30
1330-20-7	Xylene (total)	ND		750	715	95	750	666	89	7	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	MC32345-12 Limits	
1868-53-7	Dibromofluoromethane	107%	114%	108%	70-130%
2037-26-5	Toluene-D8	108%	107%	105%	70-130%
460-00-4	4-Bromofluorobenzene	102%	101%	107%	70-130%

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Page 1 of 1

Job Number: MC32345**Account:** WSPEPAP WSP Environment & Energy**Project:** Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY**Sample:** MSH2244-BFB**Injection Date:** 07/16/14**Lab File ID:** H67471.D**Injection Time:** 12:31**Instrument ID:** GCMSH

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	31178	20.4	Pass
75	30.0 - 60.0% of mass 95	71541	46.8	Pass
95	Base peak, 100% relative abundance	152746	100.0	Pass
96	5.0 - 9.0% of mass 95	10097	6.61	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 150.0% of mass 95	108816	71.2	Pass
175	5.0 - 9.0% of mass 174	7683	5.03 (7.06) ^a	Pass
176	95.0 - 101.0% of mass 174	104725	68.6 (96.2) ^a	Pass
177	5.0 - 9.0% of mass 176	6516	4.27 (6.22) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
MSH2244-IC2244	H67472.D	07/16/14	12:59	00:28	Initial cal 0.25
MSH2244-IC2244	H67473.D	07/16/14	13:27	00:56	Initial cal 0.5
MSH2244-IC2244	H67474.D	07/16/14	13:56	01:25	Initial cal 1
MSH2244-IC2244	H67475.D	07/16/14	14:24	01:53	Initial cal 5
MSH2244-IC2244	H67476.D	07/16/14	14:52	02:21	Initial cal 10
MSH2244-IC2244	H67477.D	07/16/14	15:20	02:49	Initial cal 25
MSH2244-ICC2244	H67478.D	07/16/14	15:49	03:18	Initial cal 50
MSH2244-IC2244	H67479.D	07/16/14	16:17	03:46	Initial cal 100
MSH2244-IC2244	H67480.D	07/16/14	16:45	04:14	Initial cal 200
MSH2244-IC2244	H67481.D	07/16/14	17:13	04:42	Initial cal 400

Instrument Performance Check (BFB)

Job Number: MC32345

Account: WSPEPAP WSP Environment & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Sample: MSH2244-BFB

Injection Date: 07/17/14

Lab File ID: H67492.D

Injection Time: 13:41

Instrument ID: GCMSH

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	35936	22.4	Pass
75	30.0 - 60.0% of mass 95	74920	46.6	Pass
95	Base peak, 100% relative abundance	160640	100.0	Pass
96	5.0 - 9.0% of mass 95	10874	6.77	Pass
173	Less than 2.0% of mass 174	773	0.48 (0.72) ^a	Pass
174	50.0 - 150.0% of mass 95	107944	67.2	Pass
175	5.0 - 9.0% of mass 174	9154	5.70 (8.48) ^a	Pass
176	95.0 - 101.0% of mass 174	104024	64.8 (96.4) ^a	Pass
177	5.0 - 9.0% of mass 176	6508	4.05 (6.26) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
MSH2244-ICV2244	H67492.D	07/17/14	13:41	00:00	Initial cal verification 50
MSH2244-BS	H67492.D	07/17/14	13:41	00:00	Blank Spike
MSH2244-CC2244	H67492.D	07/17/14	13:41	00:00	Continuing cal 50
MSH2244-BSD	H67493.D	07/17/14	14:09	00:28	Blank Spike Duplicate
MSH2244-MB	H67495.D	07/17/14	15:05	01:24	Method Blank
ZZZZZZ	H67496.D	07/17/14	15:33	01:52	(unrelated sample)
ZZZZZZ	H67497.D	07/17/14	16:02	02:21	(unrelated sample)
MC32096-2	H67498.D	07/17/14	16:30	02:49	(used for QC only; not part of job MC32345)
ZZZZZZ	H67500.D	07/17/14	17:26	03:45	(unrelated sample)
ZZZZZZ	H67501.D	07/17/14	17:55	04:14	(unrelated sample)
ZZZZZZ	H67502.D	07/17/14	18:23	04:42	(unrelated sample)
MC32096-2MS	H67503.D	07/17/14	18:51	05:10	Matrix Spike
MC32096-2MSD	H67504.D	07/17/14	19:19	05:38	Matrix Spike Duplicate
ZZZZZZ	H67505.D	07/17/14	19:47	06:06	(unrelated sample)
ZZZZZZ	H67506.D	07/17/14	20:15	06:34	(unrelated sample)
ZZZZZZ	H67507.D	07/17/14	20:43	07:02	(unrelated sample)
ZZZZZZ	H67508.D	07/17/14	21:12	07:31	(unrelated sample)
ZZZZZZ	H67509.D	07/17/14	21:40	07:59	(unrelated sample)
ZZZZZZ	H67510.D	07/17/14	22:08	08:27	(unrelated sample)
ZZZZZZ	H67511.D	07/17/14	22:36	08:55	(unrelated sample)
ZZZZZZ	H67512.D	07/17/14	23:04	09:23	(unrelated sample)
ZZZZZZ	H67513.D	07/17/14	23:33	09:52	(unrelated sample)
ZZZZZZ	H67514.D	07/18/14	00:01	10:20	(unrelated sample)
ZZZZZZ	H67515.D	07/18/14	00:29	10:48	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: MC32345
Account: WSPEPAP WSP Environment & Energy
Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Sample:	MSH2244-BFB	Injection Date:	07/17/14
Lab File ID:	H67492.D	Injection Time:	13:41
Instrument ID:	GCMSH		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	H67516.D	07/18/14	00:57	11:16	(unrelated sample)
ZZZZZZ	H67517.D	07/18/14	01:25	11:44	(unrelated sample)

6.4.2
6

Instrument Performance Check (BFB)

Job Number: MC32345

Account: WSPEPAP WSP Environment & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Sample: MSH2253-BFB

Injection Date: 07/28/14

Lab File ID: H67780.D

Injection Time: 09:00

Instrument ID: GCMSH

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	32616	24.1	Pass
75	30.0 - 60.0% of mass 95	65048	48.1	Pass
95	Base peak, 100% relative abundance	135298	100.0	Pass
96	5.0 - 9.0% of mass 95	8094	5.98	Pass
173	Less than 2.0% of mass 174	683	0.50 (0.76) ^a	Pass
174	50.0 - 150.0% of mass 95	90410	66.8	Pass
175	5.0 - 9.0% of mass 174	6469	4.78 (7.16) ^a	Pass
176	95.0 - 101.0% of mass 174	89528	66.2 (99.0) ^a	Pass
177	5.0 - 9.0% of mass 176	5432	4.01 (6.07) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
MSH2253-CC2244	H67780.D	07/28/14	09:00	00:00	Continuing cal 50
MSH2253-BS	H67782.D	07/28/14	09:56	00:56	Blank Spike
MSH2253-MB	H67784.D	07/28/14	10:52	01:52	Method Blank
ZZZZZZ	H67785.D	07/28/14	11:20	02:20	(unrelated sample)
MC32345-13	H67786.D	07/28/14	11:48	02:48	TRIP BLANKS
MC32345-12	H67787.D	07/28/14	12:16	03:16	LBA-MW-34N
ZZZZZZ	H67788.D	07/28/14	12:45	03:45	(unrelated sample)
ZZZZZZ	H67789.D	07/28/14	13:13	04:13	(unrelated sample)
ZZZZZZ	H67790.D	07/28/14	13:41	04:41	(unrelated sample)
ZZZZZZ	H67791.D	07/28/14	14:10	05:10	(unrelated sample)
ZZZZZZ	H67792.D	07/28/14	14:38	05:38	(unrelated sample)
MC32345-12MS	H67793.D	07/28/14	15:06	06:06	Matrix Spike
MC32345-12MSD	H67794.D	07/28/14	15:35	06:35	Matrix Spike Duplicate
ZZZZZZ	H67795.D	07/28/14	16:03	07:03	(unrelated sample)
ZZZZZZ	H67796.D	07/28/14	16:31	07:31	(unrelated sample)
ZZZZZZ	H67796A.D	07/28/14	16:59	07:59	(unrelated sample)
ZZZZZZ	H67796B.D	07/28/14	17:27	08:27	(unrelated sample)
ZZZZZZ	H67797.D	07/28/14	17:56	08:56	(unrelated sample)
ZZZZZZ	H67798.D	07/28/14	18:25	09:25	(unrelated sample)
ZZZZZZ	H67799.D	07/28/14	18:53	09:53	(unrelated sample)
ZZZZZZ	H67800.D	07/28/14	19:21	10:21	(unrelated sample)
ZZZZZZ	H67801.D	07/28/14	19:50	10:50	(unrelated sample)
ZZZZZZ	H67802.D	07/28/14	20:18	11:18	(unrelated sample)
ZZZZZZ	H67803.D	07/28/14	20:46	11:46	(unrelated sample)

Volatile Internal Standard Area Summary

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Job Number: MC32345

Account: WSPEPAP WSP Environment & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Check Std: MSH2253-CC2244

Injection Date: 07/28/14

Lab File ID: H67780.D

Injection Time: 09:00

Instrument ID: GCMSH

Method: SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	294744	8.63	533886	9.49	300348	12.74	228339	15.31	88843	6.20
Upper Limit ^a	589488	9.13	1067772	9.99	600696	13.24	456678	15.81	177686	6.70
Lower Limit ^b	147372	8.13	266943	8.99	150174	12.24	114170	14.81	44422	5.70

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSH2253-BS	304899	8.62	536024	9.49	306658	12.74	228719	15.31	98152	6.21
MSH2253-MB	268663	8.63	471219	9.49	241486	12.75	150694	15.31	87001	6.21
ZZZZZZ	263063	8.63	456580	9.49	233001	12.74	144603	15.31	71804	6.21
MC32345-13	256418	8.63	445302	9.49	228171	12.74	141249	15.31	70439	6.21
MC32345-12	250548	8.63	429036	9.49	216846	12.75	137196	15.31	71833	6.22
ZZZZZZ	247608	8.62	417864	9.49	214691	12.75	137103	15.31	68530	6.20
ZZZZZZ	235052	8.63	405529	9.49	205604	12.74	126043	15.31	63001	6.22
ZZZZZZ	231228	8.63	405038	9.49	206650	12.75	124575	15.31	66024	6.21
ZZZZZZ	226010	8.63	401713	9.49	205241	12.75	126553	15.32	63952	6.20
ZZZZZZ	258797	8.63	445865	9.49	247409	12.74	208672	15.31	78454	6.20
MC32345-12MS	304963	8.63	532448	9.49	300641	12.74	204387	15.31	97583	6.21
MC32345-12MSD	316084	8.63	568755	9.49	318944	12.74	221552	15.31	104569	6.21
ZZZZZZ	305107	8.63	534626	9.49	282536	12.75	184972	15.31	101011	6.21
ZZZZZZ	314570	8.63	555868	9.49	292164	12.75	180723	15.31	98536	6.20
ZZZZZZ	280176	8.63	493711	9.50	253542	12.75	171091	15.31	99390	6.21
ZZZZZZ	268637	8.63	460356	9.49	240619	12.75	174317	15.31	89117	6.20
ZZZZZZ	296253	8.63	521450	9.49	284156	12.74	188651	15.31	90455	6.21
ZZZZZZ	321131	8.62	564865	9.49	288165	12.75	180818	15.31	91478	6.20
ZZZZZZ	301271	8.63	545812	9.49	271938	12.74	167134	15.32	87769	6.22
ZZZZZZ	283169	8.63	513224	9.49	254033	12.75	154113	15.31	83025	6.21
ZZZZZZ	267237	8.62	493787	9.49	246333	12.75	152710	15.32	77929	6.20
ZZZZZZ	258034	8.63	455220	9.49	227742	12.74	139705	15.31	74985	6.20
ZZZZZZ	249145	8.63	453306	9.49	217177	12.75	138775	15.31	69432	6.21

IS 1 = Pentafluorobenzene

IS 2 = 1,4-Difluorobenzene

IS 3 = Chlorobenzene-D5

IS 4 = 1,4-Dichlorobenzene-d4

IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.

(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Surrogate Recovery Summary

Job Number: MC32345
Account: WSPEPAP WSP Environment & Energy
Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Method: SW846 8260C	Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC32345-12	H67787.D	108	105	107
MC32345-13	H67786.D	104	105	109
MC32345-12MS	H67793.D	107	108	102
MC32345-12MSD	H67794.D	114	107	101
MSH2253-BS	H67782.D	113	108	97
MSH2253-MB	H67784.D	106	107	109

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	70-130%
S2 = Toluene-D8	70-130%
S3 = 4-Bromofluorobenzene	70-130%

Initial Calibration Summary

Page 1 of 5

Job Number: MC32345
Account: WSPEPAP WSP Environment & Energy
Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY
Sample: MSH2244-ICC2244
Lab FileID: H67478.D

Response Factor Report MSH

Method : C:\msdchem\1\METHODS\H140716W.M (RTE Integrator)
 Title : SW-846 Method 8260
 Last Update : Thu Jul 17 13:39:42 2014
 Response via : Initial Calibration

Calibration Files

0.25=h67472.D 0.5 =h67473.D 1 =h67474.D 5 =h67475.D
 10 =h67476.D 25 =h67477.D 50 =h67478.D 100 =h67479.D
 200 =h67480.D 400 =h67481.D = =

Compound	0.25	0.5	1	5	10	25	50	100	200	400	Avg	%RSD

1) I Tert Butyl Alcohol-d9	-----ISTD-----											
2) tertiary butyl alcohol												
	0.135	0.147	0.122	0.140	0.126	0.128	0.131	0.131	0.133			6.16
3) Ethanol												
	0.013	0.013	0.012	0.015	0.014	0.016	0.016	0.016	0.016	0.014#		11.73
4) I pentafluorobenzene	-----ISTD-----											
5) dichlorodifluoromethane												
	0.346	0.334	0.375	0.371	0.352	0.343	0.306	0.342	0.346			6.22
6) chloromethane												
	0.553	0.572	0.556	0.496	0.452	0.406	0.350	0.313	0.462			21.38
---- Quadratic regression ---- Coefficient = 0.9959												
Response Ratio = 0.00622 + 0.44237 *A + -0.01701 *A^2												
7) vinyl chloride												
	0.448	0.429	0.454	0.443	0.417	0.396	0.343	0.340	0.409			11.11
8) bromomethane												
	0.402	0.385	0.375	0.360	0.348	0.327	0.308	0.311	0.352			9.86
9) chloroethane												
	0.395	0.342	0.353	0.363	0.351	0.337	0.299	0.311	0.344			8.69
10) acetonitrile												
	0.045	0.065	0.062	0.069	0.070	0.087	0.074	0.067				18.95
---- Linear regression ---- Coefficient = 0.9924												
Response Ratio = -0.00375 + 0.07741 *A												
11) trichlorofluoromethane												
	0.760	0.735	0.820	0.802	0.794	0.762	0.668	0.740	0.760			6.30
12) freon-113												
	0.481	0.540	0.489	0.531	0.468	0.463	0.393	0.426	0.474			10.38
13) acrolein												
	0.039	0.044	0.050	0.053	0.057	0.057	0.056	0.051				13.53
14) 1,1-dichloroethene												
	0.507	0.551	0.500	0.521	0.450	0.464	0.401	0.423	0.477			10.77
15) acetone												
	0.032	0.039	0.045	0.047	0.047	0.049	0.043	0.043#				13.10
16) ethyl ether												
	0.436	0.434	0.403	0.440	0.414	0.424	0.414	0.391	0.420			4.12
17) methyl acetate												
	0.375	0.365	0.386	0.382	0.389	0.373	0.337	0.372				4.70
18) methylene chloride												
	0.677	0.644	0.587	0.611	0.548	0.542	0.506	0.488	0.576			11.52
19) methyl tert butyl ether												
	1.182	1.355	1.313	1.394	1.290	1.328	1.307	1.269	1.305			4.82
20) acrylonitrile												

6.7.1
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Initial Calibration Summary

Job Number: MC32345

Sample: MSH2244-ICC2244

Account: WSPEPAP WSP Environment & Energy

Lab FileID: H67478.D

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

	0.138	0.146	0.167	0.163	0.186	0.185	0.173	0.166	11.05
21) allyl chloride	1.196	1.141	1.050	1.104	0.972	1.016	0.894	0.901	10.62
22) trans-1,2-dichloroethene	0.602	0.622	0.542	0.575	0.517	0.527	0.467	0.475	10.36
23) iodomethane	0.716	0.765	0.709	0.770	0.692	0.700	0.646	0.660	6.22
24) carbon disulfide	1.500	1.637	1.575	1.650	1.470	1.468	1.288	1.390	8.21
25) propionitrile	0.031	0.045	0.057	0.059	0.064	0.065	0.064	0.055	23.02
---- Linear regression ---- Coefficient = 0.9998									
Response Ratio = -0.00363 + 0.06470 *A									
26) vinyl acetate	0.940	0.920	1.046	1.009	1.079	1.081	1.074	1.021	6.62
27) chloroprene	1.027	1.131	1.034	1.128	0.991	0.998	0.870	0.883	9.61
28) di-isopropyl ether	1.859	2.213	2.062	2.192	1.983	1.974	1.833	1.705	8.92
29) methacrylonitrile	0.265	0.248	0.311	0.291	0.303	0.310	0.305	0.291	8.43
30) 2-butanone	0.043	0.044	0.050	0.046	0.049	0.048	0.044	0.046#	6.50
31) 1,1-dichloroethane	1.027	1.110	1.060	1.128	1.001	1.001	0.927	0.944	7.03
32) tert-butyl ethyl ether	1.588	1.886	1.737	1.856	1.731	1.733	1.643	1.566	6.73
33) Hexane	1.024	1.060	1.000	1.024	0.899	0.889	0.788	0.751	12.48
34) isobutyl alcohol	0.068	0.052	0.067	0.059	0.061	0.056	0.051	0.059	10.84
35) 2,2-dichloropropane	0.664	0.861	0.817	0.884	0.775	0.805	0.705	0.749	9.59
36) cis-1,2-dichloroethene	0.711	0.659	0.598	0.630	0.562	0.572	0.532	0.529	10.65
37) ethyl acetate	0.272	0.281	0.317	0.344	0.354	0.361	0.347	0.325	11.13
38) bromochloromethane	0.280	0.274	0.280	0.298	0.260	0.264	0.253	0.241	6.70
39) chloroform	0.961	1.084	0.986	1.047	0.946	0.950	0.873	0.859	8.00
40) dibromofluoromethane (s)	0.522	0.563	0.533	0.521	0.565	0.535	0.535	0.539	3.33
41) 1,1,1-trichloroethane	0.991	1.053	0.776	0.919	0.859	0.903	0.823	0.836	10.86
42) I 1,4-difluorobenzene	-----ISTD-----								
43) cyclohexane	0.678	0.680	0.665	0.687	0.609	0.607	0.529	0.554	9.75
44) carbon tetrachloride	0.340	0.398	0.397	0.429	0.396	0.403	0.364	0.398	6.93
45) 1,1-dichloropropene	0.439	0.473	0.439	0.475	0.414	0.421	0.368	0.383	9.01
46) benzene	1.316	1.213	1.399	1.288	1.344	1.192	1.177	1.070	10.22
47) tetrahydrofuran	0.103	0.096	0.082	0.078	0.084	0.083	0.081	0.087	10.58
48) 1,2-dichloroethane	0.481	0.521	0.479	0.499	0.455	0.467	0.457	0.452	5.03

Initial Calibration Summary

Job Number: MC32345

Sample: MSH2244-ICC2244

Account: WSPEPAP WSP Environment & Energy

Lab FileID: H67478.D

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

49)	tert-amyl methyl ether	0.667	0.802	0.734	0.836	0.762	0.756	0.747	0.711	0.752	6.93
50)	heptane	0.597	0.611	0.570	0.589	0.505	0.501	0.470	0.454	0.537	11.46
51)	trichloroethene	0.414	0.431	0.340	0.416	0.365	0.387	0.335	0.331	0.298	13.60
52)	1,2-dichloropropane	0.373	0.381	0.357	0.380	0.334	0.327	0.306	0.289	0.343	10.18
53)	dibromomethane	0.196	0.219	0.203	0.211	0.190	0.190	0.188	0.175	0.197	7.19
54)	bromodichloromethane	0.397	0.446	0.425	0.478	0.432	0.444	0.439	0.436	0.437	5.18
55)	methylcyclohexane	0.531	0.571	0.549	0.584	0.509	0.502	0.452	0.459	0.520	9.31
56)	2-chloroethyl vinyl ether	0.102	0.131	0.142	0.151	0.149	0.162	0.157	0.142	0.142	14.43
57)	methyl methacrylate	0.168	0.159	0.175	0.166	0.173	0.177	0.166	0.169	0.169	3.71
58)	1,4-dioxane	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.002	0.002#	12.06
59)	cis-1,3-dichloropropene	0.440	0.504	0.459	0.525	0.495	0.551	0.498	0.511	0.501	6.31
60)	toluene-d8 (s)	1.133	1.220	1.168	1.113	1.132	1.060	1.035	1.123	1.123	5.55
61)	4-methyl-2-pentanone	0.270	0.286	0.312	0.308	0.309	0.318	0.298	0.300	0.300	5.69
62)	toluene	0.728	0.898	0.819	0.860	0.763	0.743	0.675	0.648	0.767	11.40
63)	trans-1,3-dichloropropene	0.396	0.354	0.436	0.430	0.481	0.452	0.471	0.466	0.455	9.25
64)	1,1,2-trichloroethane	0.214	0.233	0.233	0.247	0.222	0.225	0.222	0.207	0.225	5.48
65)	ethyl methacrylate	0.339	0.325	0.357	0.337	0.340	0.339	0.304	0.334	0.334	4.94
66)	I chlorobenzene-d5	-----ISTD-----									
67)	tetrachloroethene	0.626	0.608	0.542	0.653	0.591	0.637	0.545	0.513	0.486	10.37
68)	1,3-dichloropropane	0.780	0.901	0.847	0.884	0.793	0.766	0.779	0.761	0.814	6.82
69)	dibromochloromethane	0.475	0.393	0.510	0.506	0.557	0.524	0.535	0.581	0.601	11.84
70)	1,2-dibromoethane	0.447	0.522	0.507	0.530	0.492	0.479	0.512	0.513	0.500	5.38
71)	2-hexanone	0.365	0.296	0.330	0.337	0.350	0.397	0.394	0.353	0.353	10.23
72)	chlorobenzene	1.590	1.823	1.645	1.763	1.522	1.465	1.444	1.438	1.586	9.28
73)	1,1,1,2-tetrachloroethane	0.456	0.544	0.531	0.573	0.519	0.506	0.514	0.518	0.520	6.45
74)	ethylbenzene	2.880	3.230	2.939	3.103	2.660	2.594	2.470	2.513	2.799	10.07
75)	m,p-xylene	1.215	1.068	1.228	1.134	1.178	0.998	0.925	0.861	0.835	14.42
76)	o-xylene	1.336	1.036	1.233	1.156	1.179	1.016	0.955	0.891	0.867	14.98
77)	styrene	1.602	1.710	1.661	1.913	1.632	1.606	1.575	1.584	1.660	6.70
78)	bromoform	0.186	0.252	0.254	0.300	0.289	0.316	0.348	0.365	0.289	20.00

Initial Calibration Summary

Job Number: MC32345

Sample: MSH2244-ICC2244

Account: WSPEPAP WSP Environment & Energy

Lab FileID: H67478.D

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

---- Linear regression ---- Coefficient = 0.9951
Response Ratio = -0.00699 + 0.34874 *A

79) trans-1,4-dichloro-2-butene

0.125 0.123 0.158 0.155 0.164 0.187 0.187 0.157 16.48

---- Linear regression ---- Coefficient = 0.9972
Response Ratio = -0.01013 + 0.18430 *A

80) I 1,4-dichlorobenzene-d -----ISTD-----

81) isopropylbenzene

4.116 4.373 3.908 3.938 3.478 3.330 3.044 3.029 3.652 13.79

82) bromofluorobenzene (s)

1.217 1.244 1.153 1.107 1.158 1.094 1.092 1.152 5.22

83) bromobenzene

0.877 0.920 0.818 0.862 0.777 0.766 0.737 0.728 0.811 8.65

84) 1,1,2,2-tetrachloroethane

0.720 0.899 1.032 0.833 0.846 0.774 0.744 0.688 0.598 0.793 16.08

---- Quadratic regression ---- Coefficient = 0.9989
Response Ratio = 0.00178 + 0.80561 *A + -0.02638 *A^2

85) 1,2,3-trichloropropane

0.795 0.909 0.812 0.888 0.814 0.832 0.836 0.808 0.837 4.84

86) n-propylbenzene

4.258 4.784 4.212 4.421 3.928 3.842 3.477 3.529 4.056 11.04

87) 2-chlorotoluene

3.045 3.285 2.809 2.944 2.576 2.506 2.307 2.294 2.721 13.19

88) 4-chlorotoluene

2.299 3.174 2.811 2.979 2.667 2.609 2.443 2.417 2.675 11.17

89) 1,3,5-trimethylbenzene

3.415 3.804 3.332 3.476 3.047 2.957 2.722 2.695 3.181 12.28

90) tert-butylbenzene

2.197 2.227 2.053 2.062 1.817 1.771 1.626 1.622 1.922 12.70

91) 1,2,4-trimethylbenzene

3.084 3.466 3.107 3.305 2.961 2.882 2.706 2.636 3.018 9.37

92) sec-butylbenzene

4.197 4.496 4.195 4.283 3.858 3.695 3.389 3.323 3.929 11.00

93) 1,3-dichlorobenzene

1.432 1.715 1.545 1.673 1.494 1.483 1.402 1.415 1.520 7.73

94) p-isopropyltoluene

3.195 3.516 3.230 3.364 2.907 2.828 2.568 2.429 3.005 12.83

95) 1,4-dichlorobenzene

1.649 1.819 1.583 1.672 1.450 1.410 1.295 1.214 1.511 13.56

96) 1,2-dichlorobenzene

1.469 1.735 1.511 1.605 1.458 1.464 1.397 1.343 1.498 8.21

97) n-butylbenzene

2.425 2.845 2.729 3.036 2.765 2.761 2.668 2.604 2.729 6.52

98) 1,2-dibromo-3-chloropropane

0.107 0.108 0.117 0.117 0.125 0.135 0.132 0.120 9.17

99) 1,3,5-trichlorobenzene

0.715 0.941 0.894 1.030 0.990 1.026 0.998 0.933 0.941 10.93

100) 1,2,4-trichlorobenzene

0.521 0.504 0.679 0.688 0.781 0.819 0.789 0.683 18.67

---- Linear regression ---- Coefficient = 0.9985
Response Ratio = -0.04317 + 0.79927 *A

101) hexachlorobutadiene

0.498 0.574 0.483 0.532 0.469 0.476 0.463 0.441 0.492 8.61

102) naphthalene

0.895 0.939 1.243 1.339 1.575 1.732 1.655 1.340 25.07

Initial Calibration Summary

Page 5 of 5

Job Number: MC32345

Sample: MSH2244-ICC2244

Account: WSPEPAP WSP Environment & Energy

Lab FileID: H67478.D

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

---- Linear regression ---- Coefficient = 0.9968
Response Ratio = -0.12330 + 1.67232 *A

103) 1,2,3-trichlorobenzene

0.521 0.504 0.679 0.688 0.781 0.819 0.789 0.683 18.67

---- Linear regression ---- Coefficient = 0.9985
Response Ratio = -0.04317 + 0.79927 *A

104) 2-Methylnaphthalene

0.124 0.169 0.229 0.332 0.423 0.428 0.284 45.71

---- Quadratic regression ---- Coefficient = 0.9926
Response Ratio = -0.03337 + 0.35279 *A + 0.02306 *A^2

105) 1-Methylnaphthalene

0.998 0.828 1.007 1.176 1.238 1.194 1.073 14.59

(#) = Out of Range ### Number of calibration levels exceeded format ###

H140716W.M

Thu Jul 17 17:30:49 2014

6.7.1
6

Initial Calibration Verification

Page 1 of 3

Job Number: MC32345

Sample: MSH2244-ICV2244

Account: WSPEPAP WSP Environment & Energy

Lab FileID: H67492.D

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\140717\h67492.D Vial: 4
 Acq On : 17 Jul 2014 1:41 pm Operator: amym
 Sample : icv2244-50 Inst : MSH
 Misc : ms32261,msh2244,,,,,5,1 Multiplr: 1.00
 MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\H140716W.M (RTE Integrator)
 Title : SW-846 Method 8260
 Last Update : Thu Jul 17 13:39:42 2014
 Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Tert Butyl Alcohol-d9	1.000	1.000	0.0	98	0.00	6.20
2 p	tertiary butyl alcohol	0.133	0.125	6.0	98	0.00	6.28
3 p	Ethanol	0.014	0.015#	-7.1	99	0.00	5.10
4 I	pentafluorobenzene	1.000	1.000	0.0	103	0.00	8.63
5 p	dichlorodifluoromethane	0.346	0.335	3.2	98	0.00	4.03
6 P	chloromethane	50.000	49.182	1.6	96	0.00	4.29
7 p	vinyl chloride	0.409	0.413	-1.0	102	0.00	4.51
8 p	bromomethane	0.352	0.348	1.1	103	0.00	4.98
9 p	chloroethane	0.344	0.347	-0.9	101	0.00	5.12
10 p	acetonitrile	50.000	40.355	19.3	87	0.00	5.73
11 p	trichlorofluoromethane	0.760	0.804	-5.8	104	-0.03	5.71
12 p	freon-113	0.474	0.471	0.6	103	0.00	6.47
13 p	acrolein	0.051	0.053	-3.9	103	0.00	5.70
14 p	1,1-dichloroethene	0.477	0.439	8.0	100	0.00	6.28
15 p	acetone	0.043	0.043#	0.0	94	0.02	5.85
16 p	ethyl ether	0.420	0.414	1.4	102	0.00	5.94
17 p	methyl acetate	0.372	0.344	7.5	92	0.00	6.46
18 p	methylene chloride	0.576	0.561	2.6	105	0.00	6.43
19 p	methyl tert butyl ether	1.305	1.354	-3.8	108	0.00	7.21
20 p	acrylonitrile	0.166	0.179	-7.8	113	0.02	6.35
21 p	allyl chloride	1.034	0.969	6.3	102	0.00	6.53
22 p	trans-1,2-dichloroethene	0.541	0.533	1.5	106	0.00	7.12
23 p	iodomethane	0.707	0.751	-6.2	111	0.00	6.37
24 p	carbon disulfide	1.497	1.352	9.7	94	0.00	6.71
25 p	propionitrile	50.000	51.139	-2.3	109	0.01	7.38
26 p	vinyl acetate	1.021	1.421	-39.2#	144	0.00	7.47
27 p	chloroprene	1.008	0.873	13.4	90	0.00	7.73
28 p	di-isopropyl ether	1.978	2.095	-5.9	108	0.00	7.78
29 p	methacrylonitrile	0.291	0.302	-3.8	107	0.00	7.88

Initial Calibration Verification

Page 2 of 3

Job Number: MC32345

Sample: MSH2244-ICV2244

Account: WSPEPAP WSP Environment & Energy

Lab FileID: H67492.D

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

30	p	2-butanone	0.046	0.049#	-6.5	110	0.02	7.79
31	P	1,1-dichloroethane	1.025	1.045	-2.0	107	0.00	7.37
32	p	tert-butyl ethyl ether	1.718	1.755	-2.2	104	0.00	8.17
33	p	Hexane	0.929	0.920	1.0	105	0.00	7.75
34	p	isobutyl alcohol	0.059	0.065	-10.2	112	0.00	8.17
35	p	2,2-dichloropropane	0.783	0.810	-3.4	107	0.00	8.23
36	p	cis-1,2-dichloroethene	0.599	0.593	1.0	108	0.00	7.94
37	p	ethyl acetate	0.325	0.354	-8.9	106	0.00	8.08
38	p	bromochloromethane	0.269	0.264	1.9	104	0.00	8.10
39	p	chloroform	0.963	1.024	-6.3	111	0.00	8.14
40	S	dibromofluoromethane (s)	0.539	0.618	-14.7	122	0.00	8.26
41	p	1,1,1-trichloroethane	0.872	0.888	-1.8	111	0.00	8.89
42	I	1,4-difluorobenzene	1.000	1.000	0.0	102	0.00	9.49
43	p	cyclohexane	0.626	0.624	0.3	105	0.00	9.17
44	p	carbon tetrachloride	0.391	0.422	-7.9	109	0.00	9.25
45	p	1,1-dichloropropene	0.426	0.439	-3.1	109	0.00	9.06
46	p	benzene	1.224	1.231	-0.6	106	0.00	9.29
47	p	tetrahydrofuran	0.087	0.086	1.1	112	0.00	8.47
48	p	1,2-dichloroethane	0.476	0.480	-0.8	108	0.00	8.79
49	p	tert-amyl methyl ether	0.752	0.803	-6.8	108	0.00	9.41
50	p	heptane	0.537	0.528	1.7	107	0.00	9.77
51	p	trichloroethene	0.361	0.360	0.3	110	0.00	9.91
52	p	1,2-dichloropropane	0.343	0.358	-4.4	110	0.00	9.87
53	p	dibromomethane	0.197	0.198	-0.5	107	0.00	9.85
54	p	bromodichloromethane	0.437	0.448	-2.5	106	0.00	9.96
55	p	methylcyclohexane	0.520	0.517	0.6	104	0.00	10.43
56	p	2-chloroethyl vinyl ether			-----NA-----			
57	p	methyl methacrylate	0.169	0.178	-5.3	110	0.00	10.07
58	p	1,4-dioxane	0.002	0.002#	0.0	88	0.02	10.07
59	p	cis-1,3-dichloropropene	0.497	0.530	-6.6	109	0.00	10.58
60	S	toluene-d8 (s)	1.123	1.351	-20.3#	124	0.00	11.29
61	p	4-methyl-2-pentanone	0.300	0.317	-5.7	105	0.00	10.68
62	p	toluene	0.767	0.796	-3.8	107	0.00	11.36
63	p	trans-1,3-dichloropropene	0.438	0.443	-1.1	100	0.00	11.00
64	p	1,1,2-trichloroethane	0.225	0.246	-9.3	113	0.00	11.17
65	p	ethyl methacrylate	0.334	0.364	-9.0	111	0.00	11.39
66	I	chlorobenzene-d5	1.000	1.000	0.0	106	0.00	12.74
67	p	tetrachloroethene	0.571	0.554	3.0	108	0.00	12.10
68	p	1,3-dichloropropane	0.814	0.834	-2.5	112	0.00	11.41
69	p	dibromochloromethane	0.520	0.538	-3.5	109	0.00	11.70
70	p	1,2-dibromoethane	0.500	0.505	-1.0	109	0.00	11.94
71	p	2-hexanone	0.353	0.331	6.2	104	0.00	11.54
72	P	chlorobenzene	1.586	1.536	3.2	107	0.00	12.78
73	p	1,1,1,2-tetrachloroethane	0.520	0.524	-0.8	107	0.00	12.70
74	p	ethylbenzene	2.799	2.751	1.7	110	0.00	12.96
75	p	m,p-xylene	1.049	1.017	3.1	108	0.00	13.14
76	p	o-xylene	1.074	1.016	5.4	106	0.00	13.56
77	p	styrene	1.660	1.590	4.2	103	0.00	13.48
			Amount	Calc.	%Drift			
78	P	bromoform	50.000	43.971	12.1	110	0.00	13.30
79	p	trans-1,4-dichloro-2-bute	50.000	46.852	6.3	111	0.00	13.71
			AvgRF	CCRF	%Dev			
80	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	104	0.00	15.31
81	p	isopropylbenzene	3.652	3.433	6.0	103	0.00	13.92
82	S	bromofluorobenzene (s)	1.152	1.296	-12.5	122	0.00	13.97

Initial Calibration Verification

Page 3 of 3

Job Number: MC32345

Sample: MSH2244-ICV2244

Account: WSPEPAP WSP Environment & Energy

Lab FileID: H67492.D

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

83 p	bromobenzene	0.811	0.802	1.1	108	0.00	14.20

84 P	1,1,2,2-tetrachloroethane	Amount 50.000	Calc. 49.975	%Drift 0.0	105	0.00	13.56

85 p	1,2,3-trichloropropane	AvgRF 0.837	CCRF 0.873	%Dev -4.3	112	0.00	13.71
86 p	n-propylbenzene	4.056	4.143	-2.1	110	0.00	14.36
87 p	2-chlorotoluene	2.721	2.576	5.3	104	0.00	14.48
88 p	4-chlorotoluene	2.675	2.722	-1.8	106	0.00	14.55
89 p	1,3,5-trimethylbenzene	3.181	3.077	3.3	105	0.00	14.65
90 p	tert-butylbenzene	1.922	1.824	5.1	105	0.00	14.95
91 p	1,2,4-trimethylbenzene	3.018	3.028	-0.3	107	0.00	15.06
92 p	sec-butylbenzene	3.929	3.783	3.7	102	0.00	15.17
93 p	1,3-dichlorobenzene	1.520	1.492	1.8	104	0.00	15.27
94 p	p-isopropyltoluene	3.005	2.979	0.9	107	0.00	15.35
95 p	1,4-dichlorobenzene	1.511	1.481	2.0	107	0.00	15.34
96 p	1,2-dichlorobenzene	1.498	1.459	2.6	104	0.00	15.70
97 p	n-butylbenzene	2.729	2.816	-3.2	106	0.00	15.77
98 p	1,2-dibromo-3-chloropropa	0.120	0.126	-5.0	112	0.00	16.19
99 p	1,3,5-trichlorobenzene	0.941	0.973	-3.4	103	0.00	17.00

100 p	1,2,4-trichlorobenzene	Amount 50.000	Calc. 45.835	%Drift 8.3	105	0.00	17.56

101 p	hexachlorobutadiene	AvgRF 0.492	CCRF 0.460	%Dev 6.5	102	0.00	17.86

102 p	naphthalene	Amount 50.000	Calc. 44.272	%Drift 11.5	106	0.00	17.83
103 p	1,2,3-trichlorobenzene	50.000	45.835	8.3	105	0.00	17.56
104 p	2-Methylnaphthalene	25.000	21.303	14.8	110	0.00	19.30

105 p	1-Methylnaphthalene	AvgRF 1.073	CCRF 0.977	%Dev 8.9	101	0.00	19.55

(#) = Out of Range
h67478.D H140716W.M

SPCC's out = 5 CCC's out = 0
Thu Jul 17 17:35:21 2014

6.7.2
6

Continuing Calibration Summary

Page 1 of 3

Job Number: MC32345

Sample: MSH2253-CC2244

Account: WSPEPAP WSP Environment & Energy

Lab FileID: H67780.D

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\140728\h67780.D Vial: 2
 Acq On : 28 Jul 2014 9:00 am Operator: amym
 Sample : cc2244-50 Inst : MSH
 Misc : ms32366,msh2253,,,,5,1 Multiplr: 1.00
 MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\H140716W.M (RTE Integrator)
 Title : SW-846 Method 8260
 Last Update : Thu Jul 17 13:39:42 2014
 Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Tert Butyl Alcohol-d9	1.000	1.000	0.0	66	0.00	6.20
2 p	tertiary butyl alcohol	0.133	0.137	-3.0	72	0.00	6.29
3 p	Ethanol	0.014	0.018#	-28.6#	83	0.02	5.11
4 I	pentafluorobenzene	1.000	1.000	0.0	72	0.00	8.63
5 p	dichlorodifluoromethane	0.346	0.285	17.6	58	0.02	4.05
6 P	chloromethane	50.000	71.581	-43.2#	96	0.01	4.30
7 p	vinyl chloride	0.409	0.565	-38.1#	97	0.00	4.51
8 p	bromomethane	0.352	0.370	-5.1	76	0.00	4.99
9 p	chloroethane	0.344	0.403	-17.2	82	0.00	5.12
10 p	acetonitrile	50.000	54.462	-8.9	84	0.03	5.75
11 p	trichlorofluoromethane	0.760	0.771	-1.4	70	-0.03	5.72
12 p	freon-113	0.474	0.484	-2.1	74	0.00	6.48
13 p	acrolein	0.051	0.059	-15.7	80	0.00	5.70
14 p	1,1-dichloroethene	0.477	0.479	-0.4	77	0.00	6.29
15 p	acetone	0.043	0.047#	-9.3	72	0.03	5.85
16 p	ethyl ether	0.420	0.425	-1.2	74	0.00	5.94
17 p	methyl acetate	0.372	0.465	-25.0#	88	0.01	6.47
18 p	methylene chloride	0.576	0.603	-4.7	79	0.00	6.44
19 p	methyl tert butyl ether	1.305	1.151	11.8	64	0.00	7.21
20 p	acrylonitrile	0.166	0.212	-27.7#	94	0.02	6.35
21 p	allyl chloride	1.034	1.207	-16.7	89	0.00	6.53
22 p	trans-1,2-dichloroethene	0.541	0.524	3.1	73	0.00	7.12
23 p	iodomethane	0.707	0.682	3.5	71	0.00	6.36
24 p	carbon disulfide	1.497	1.417	5.3	69	0.00	6.71
25 p	propionitrile	50.000	50.940	-1.9	76	0.02	7.39
26 p	vinyl acetate	1.021	1.112	-8.9	79	0.00	7.47
27 p	chloroprene	1.008	1.078	-6.9	78	0.00	7.73
28 p	di-isopropyl ether	1.978	2.430	-22.9#	88	0.00	7.78
29 p	methacrylonitrile	0.291	0.333	-14.4	82	0.00	7.88

Continuing Calibration Summary

Page 2 of 3

Job Number: MC32345

Sample: MSH2253-CC2244

Account: WSPEPAP WSP Environment & Energy

Lab FileID: H67780.D

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

30	p	2-butanone	0.046	0.048#	-4.3	74	0.01	7.78
31	P	1,1-dichloroethane	1.025	1.156	-12.8	83	0.00	7.37
32	p	tert-butyl ethyl ether	1.718	1.807	-5.2	75	0.00	8.17
33	p	Hexane	0.929	1.046	-12.6	84	0.00	7.76
34	p	isobutyl alcohol	0.059	0.069	-16.9	84	0.00	8.17
35	p	2,2-dichloropropane	0.783	0.766	2.2	71	0.00	8.23
36	p	cis-1,2-dichloroethene	0.599	0.601	-0.3	77	0.00	7.93
37	p	ethyl acetate	0.325	0.368	-13.2	77	0.00	8.09
38	p	bromochloromethane	0.269	0.274	-1.9	76	0.00	8.10
39	p	chloroform	0.963	1.029	-6.9	78	0.00	8.14
40	S	dibromofluoromethane (s)	0.539	0.696	-29.1#	96	0.00	8.26
41	p	1,1,1-trichloroethane	0.872	0.775	11.1	68	0.00	8.89
42	I	1,4-difluorobenzene	1.000	1.000	0.0	77	0.00	9.49
43	p	cyclohexane	0.626	0.584	6.7	74	0.00	9.18
44	p	carbon tetrachloride	0.391	0.361	7.7	70	0.00	9.25
45	p	1,1-dichloropropene	0.426	0.407	4.5	76	0.00	9.07
46	p	benzene	1.224	1.202	1.8	77	0.00	9.29
47	p	tetrahydrofuran	0.087	0.078	10.3	76	0.00	8.47
48	p	1,2-dichloroethane	0.476	0.455	4.4	77	0.00	8.79
49	p	tert-amyl methyl ether	0.752	0.656	12.8	66	0.00	9.41
50	p	heptane	0.537	0.528	1.7	80	0.00	9.77
51	p	trichloroethene	0.361	0.330	8.6	76	0.00	9.91
52	p	1,2-dichloropropane	0.343	0.371	-8.2	85	0.00	9.87
53	p	dibromomethane	0.197	0.191	3.0	78	0.00	9.84
54	p	bromodichloromethane	0.437	0.434	0.7	77	0.00	9.96
55	p	methylcyclohexane	0.520	0.461	11.3	70	0.00	10.43
56	p	2-chloroethyl vinyl ether	0.142	0.145	-2.1	74	0.00	10.34
57	p	methyl methacrylate	0.169	0.153	9.5	71	0.00	10.07
58	p	1,4-dioxane	0.002	0.002#	0.0	69	0.00	10.06
59	p	cis-1,3-dichloropropene	0.497	0.502	-1.0	78	0.00	10.58
60	S	toluene-d8 (s)	1.123	1.322	-17.7	91	0.00	11.29
61	p	4-methyl-2-pentanone	0.300	0.326	-8.7	81	0.00	10.68
62	p	toluene	0.767	0.718	6.4	72	0.00	11.36
63	p	trans-1,3-dichloropropene	0.438	0.430	1.8	73	0.00	11.00
64	p	1,1,2-trichloroethane	0.225	0.224	0.4	77	0.00	11.17
65	p	ethyl methacrylate	0.334	0.324	3.0	74	0.00	11.39
66	I	chlorobenzene-d5	1.000	1.000	0.0	78	0.00	12.74
67	p	tetrachloroethene	0.571	0.482	15.6	69	0.00	12.10
68	p	1,3-dichloropropane	0.814	0.786	3.4	77	0.00	11.41
69	p	dibromochloromethane	0.520	0.501	3.7	75	0.00	11.69
70	p	1,2-dibromoethane	0.500	0.434	13.2	69	0.00	11.95
71	p	2-hexanone	0.353	0.367	-4.0	85	0.00	11.54
72	P	chlorobenzene	1.586	1.422	10.3	73	0.00	12.78
73	p	1,1,1,2-tetrachloroethane	0.520	0.496	4.6	75	0.00	12.69
74	p	ethylbenzene	2.799	2.468	11.8	72	0.00	12.96
75	p	m,p-xylene	1.049	0.913	13.0	71	0.00	13.14
76	p	o-xylene	1.074	0.949	11.6	73	0.00	13.55
77	p	styrene	1.660	1.441	13.2	69	0.00	13.48
			Amount	Calc.	%Drift			
78	P	bromoform	50.000	41.104	17.8	76	0.00	13.30
79	p	trans-1,4-dichloro-2-bute	50.000	47.188	5.6	82	0.00	13.71
			AvgRF	CCRF	%Dev			
80	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	77	0.00	15.31
81	p	isopropylbenzene	3.652	3.166	13.3	70	0.00	13.92
82	S	bromofluorobenzene (s)	1.152	1.234	-7.1	86	0.00	13.97

Continuing Calibration Summary

Page 3 of 3

Job Number: MC32345

Sample: MSH2253-CC2244

Account: WSPEPAP WSP Environment & Energy

Lab FileID: H67780.D

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

83 p	bromobenzene	0.811	0.699	13.8	70	0.00	14.20

84 P	1,1,2,2-tetrachloroethane	Amount 50.000	Calc. 51.534	%Drift -3.1	80	0.00	13.56

		AvgRF	CCRF	%Dev	-----		
85 p	1,2,3-trichloropropane	0.837	0.793	5.3	75	0.00	13.70
86 p	n-propylbenzene	4.056	3.665	9.6	72	0.00	14.37
87 p	2-chlorotoluene	2.721	2.336	14.1	70	0.00	14.48
88 p	4-chlorotoluene	2.675	2.431	9.1	71	0.00	14.56
89 p	1,3,5-trimethylbenzene	3.181	2.749	13.6	70	0.00	14.65
90 p	tert-butylbenzene	1.922	1.660	13.6	71	0.00	14.95
91 p	1,2,4-trimethylbenzene	3.018	2.660	11.9	69	0.00	15.06
92 p	sec-butylbenzene	3.929	3.472	11.6	70	0.00	15.17
93 p	1,3-dichlorobenzene	1.520	1.388	8.7	72	0.00	15.27
94 p	p-isopropyltoluene	3.005	2.749	8.5	73	0.00	15.35
95 p	1,4-dichlorobenzene	1.511	1.391	7.9	74	0.00	15.34
96 p	1,2-dichlorobenzene	1.498	1.315	12.2	70	0.00	15.71
97 p	n-butylbenzene	2.729	2.604	4.6	73	0.00	15.77
98 p	1,2-dibromo-3-chloropropa	0.120	0.103	14.2	68	0.00	16.19
99 p	1,3,5-trichlorobenzene	0.941	0.863	8.3	67	0.00	17.00

100 p	1,2,4-trichlorobenzene	Amount 50.000	Calc. 38.933	%Drift 22.1#	65	0.00	17.56

101 p	hexachlorobutadiene	AvgRF 0.492	CCRF 0.381	%Dev 22.6#	63	0.00	17.86

		Amount	Calc.	%Drift	-----		
102 p	naphthalene	50.000	33.630	32.7#	58	0.00	17.84
103 p	1,2,3-trichlorobenzene	50.000	38.933	22.1#	65	0.00	17.56
104 p	2-Methylnaphthalene	25.000	13.421	46.3#	43	0.00	19.30

105 p	1-Methylnaphthalene	AvgRF 1.073	CCRF 0.515	%Dev 52.0#	40#	0.02	19.57

(#) = Out of Range
h67478.D H140716W.M

SPCC's out = 4 CCC's out = 0
Tue Jul 29 08:51:58 2014

6.7.3
6

GC/MS Volatiles

Raw Data

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\140728\
 Data File : h67787.D
 Acq On : 28 Jul 2014 12:16 pm
 Operator : amym
 Sample : mc32345-12
 Misc : ms32371,msh2253,,,,5,1
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 29 09:08:25 2014
 Quant Method : C:\msdchem\1\METHODS\H140716W.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu Jul 17 13:39:42 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.215	65	71833	50.00	ug/L	0.00
4) pentafluorobenzene	8.629	168	250548	50.00	ug/L	0.00
42) 1,4-difluorobenzene	9.493	114	429036	50.00	ug/L	0.00
66) chlorobenzene-d5	12.747	82	216846	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.312	152	137196	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.265	113	145820	53.98	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	107.96%		
60) toluene-d8 (s)	11.290	98	507865	52.70	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	105.40%		
82) bromofluorobenzene (s)	13.975	95	168883	53.43	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	106.86%		
Target Compounds						
7) vinyl chloride	4.514	62	86975	42.47	ug/L	96
14) 1,1-dichloroethene	6.282	96	2340	0.98	ug/L	92
22) trans-1,2-dichloroethene	7.122	96	4110	1.52	ug/L	85
31) 1,1-dichloroethane	7.369	63	215959	42.05	ug/L	95
36) cis-1,2-dichloroethene	7.941	96	407856	135.83	ug/L #	75
41) 1,1,1-trichloroethane	8.890	97	34911	7.99	ug/L	82
51) trichloroethene	9.913	95	31594	10.19	ug/L #	73

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

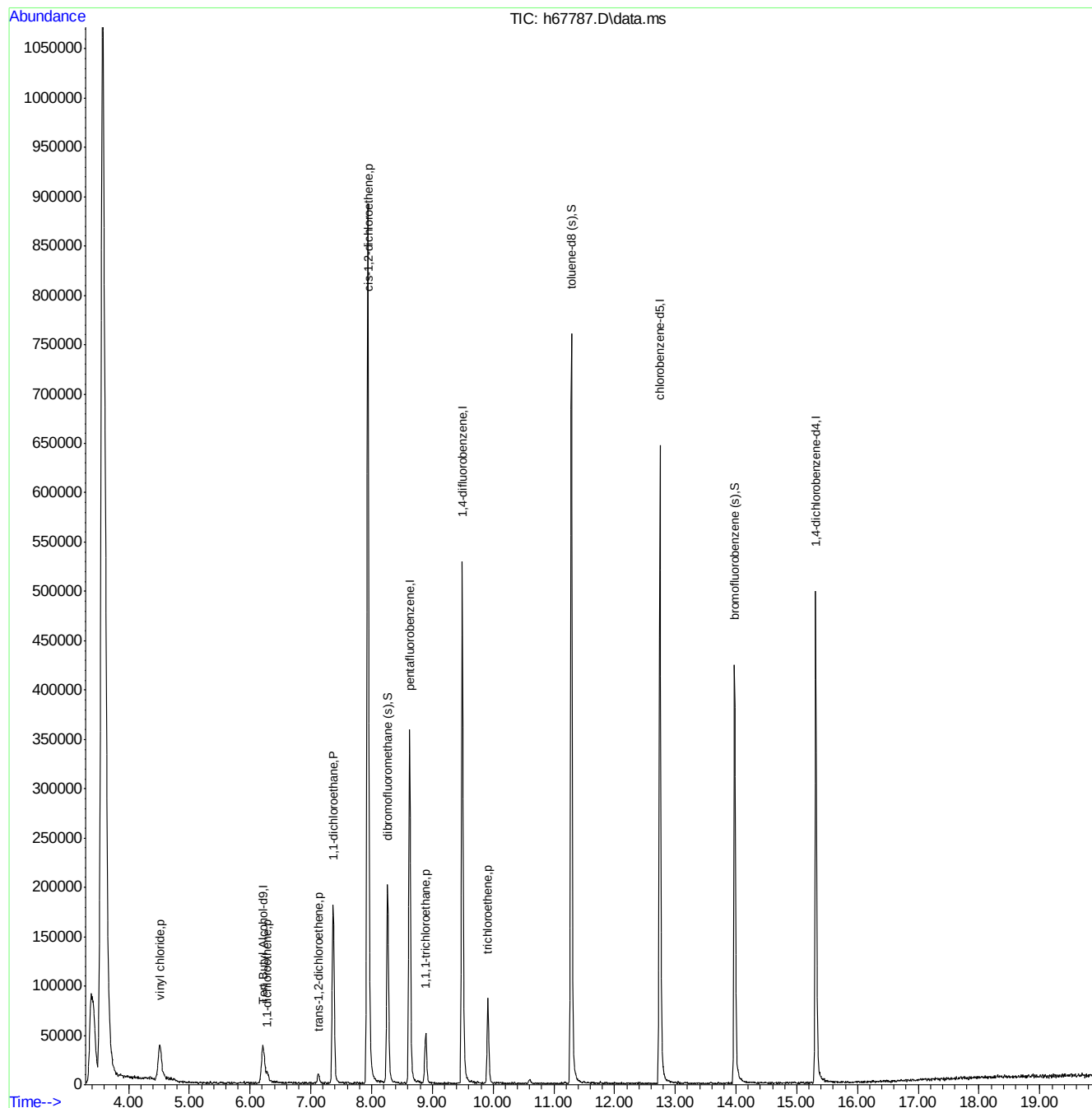
7.1.1

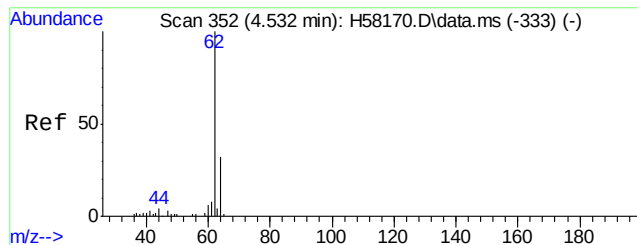
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\140728\
Data File : h67787.D
Acq On : 28 Jul 2014 12:16 pm
Operator : amym
Sample : mc32345-12
Misc : ms32371,msh2253,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

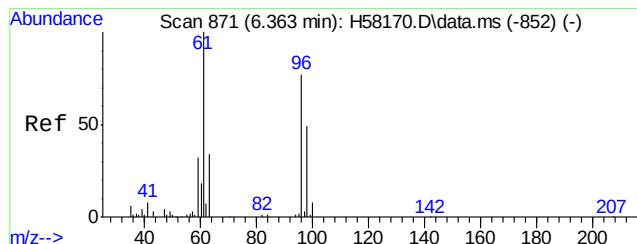
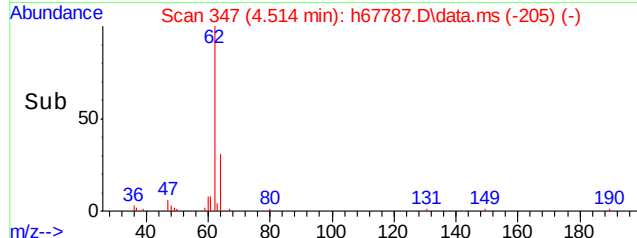
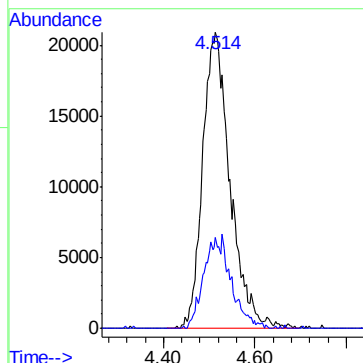
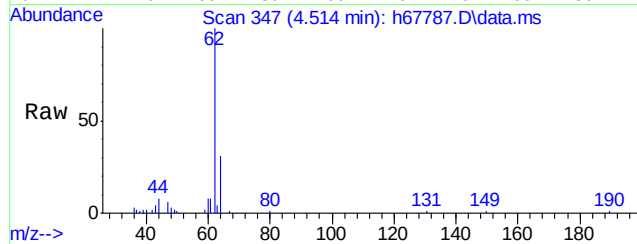
Quant Time: Jul 29 09:08:25 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 13:39:42 2014
Response via : Initial Calibration





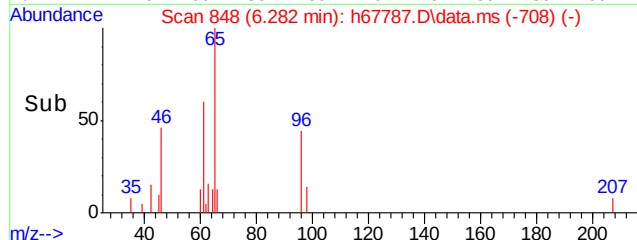
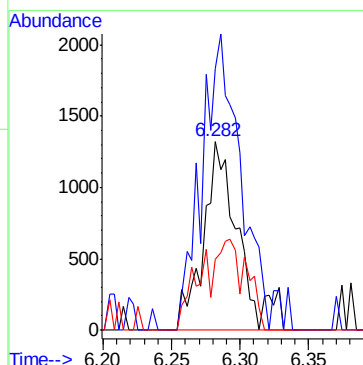
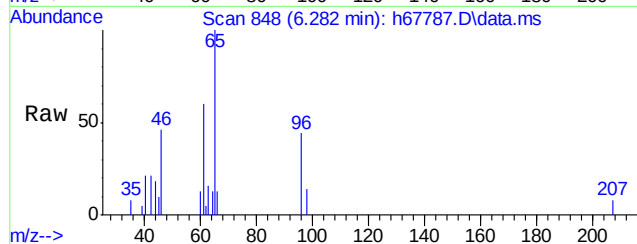
#7
vinyl chloride
Concen: 42.47 ug/L
RT: 4.514 min Scan# 347
Delta R.T. 0.000 min
Lab File: h67787.D
Acq: 28 Jul 14 12:16 pm

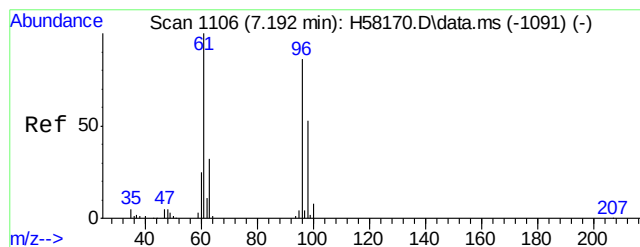
Tgt Ion	Ratio	Lower	Upper
62	100		
64	30.8	3.2	63.2



#14
1,1-dichloroethene
Concen: 0.98 ug/L
RT: 6.282 min Scan# 848
Delta R.T. -0.007 min
Lab File: h67787.D
Acq: 28 Jul 14 12:16 pm

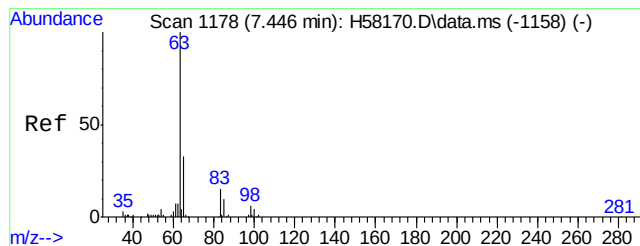
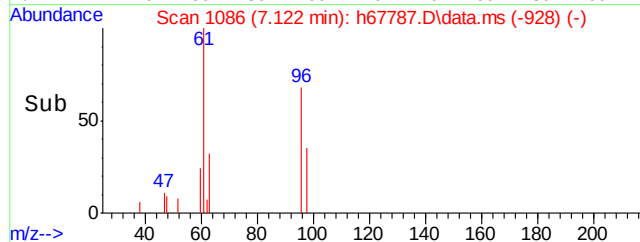
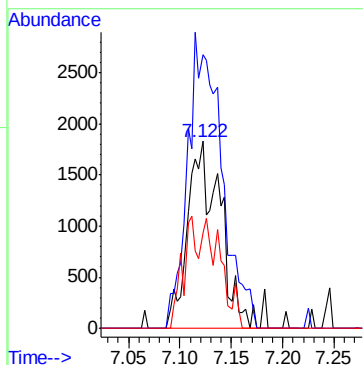
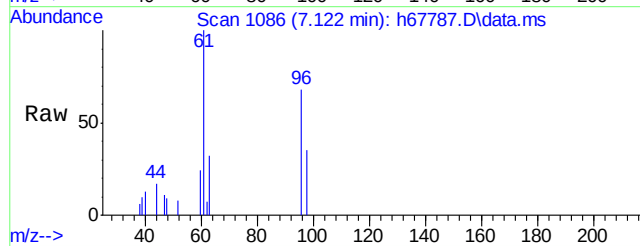
Tgt Ion	Ratio	Lower	Upper
96	100		
61	138.7	114.6	174.6
63	37.5	18.4	78.4





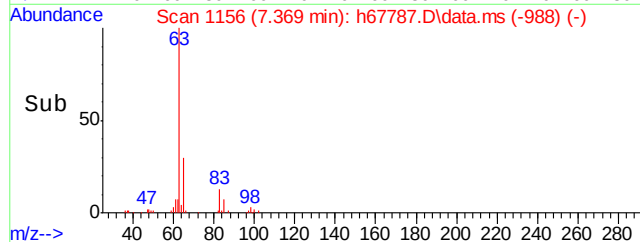
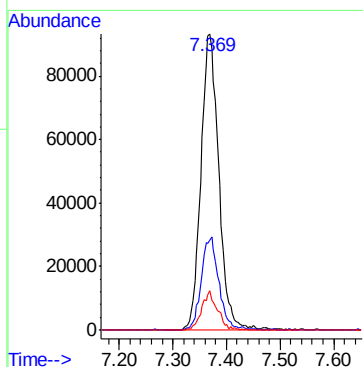
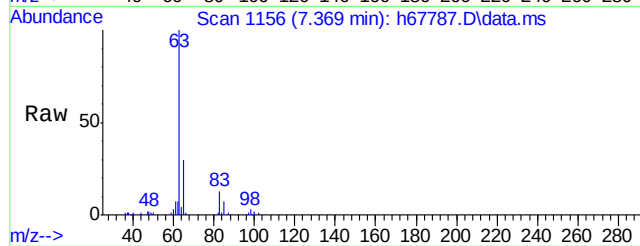
#22
trans-1,2-dichloroethene
Concen: 1.52 ug/L
RT: 7.122 min Scan# 1086
Delta R.T. 0.008 min
Lab File: h67787.D
Acq: 28 Jul 14 12:16 pm

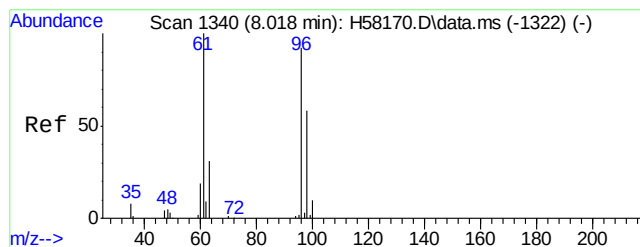
Tgt Ion:	96	Resp:	4110
Ion Ratio	Lower	Upper	
96	100		
61	146.3	99.9	159.9
98	50.9	34.7	94.7



#31
1,1-dichloroethane
Concen: 42.05 ug/L
RT: 7.369 min Scan# 1156
Delta R.T. 0.004 min
Lab File: h67787.D
Acq: 28 Jul 14 12:16 pm

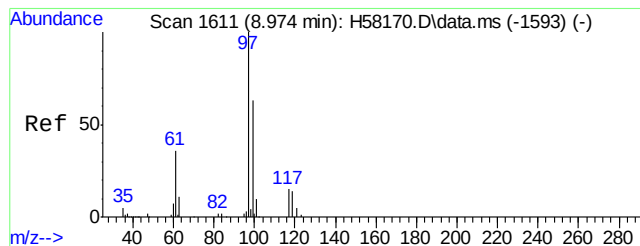
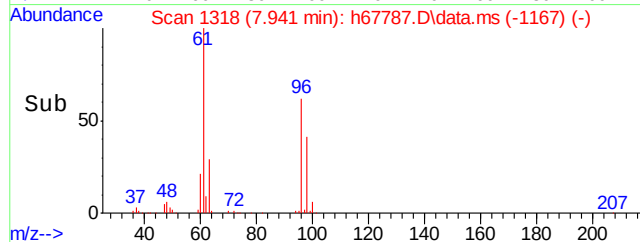
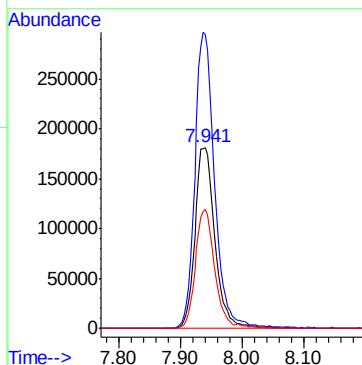
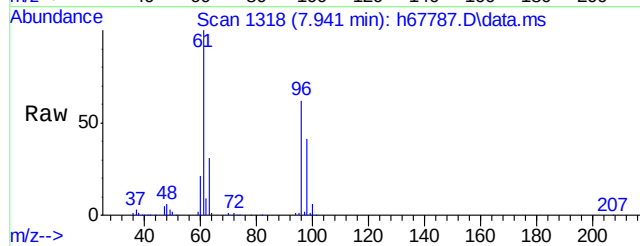
Tgt Ion:	63	Resp:	215959
Ion Ratio	Lower	Upper	
63	100		
65	30.3	2.1	62.1
83	13.3	0.0	47.3





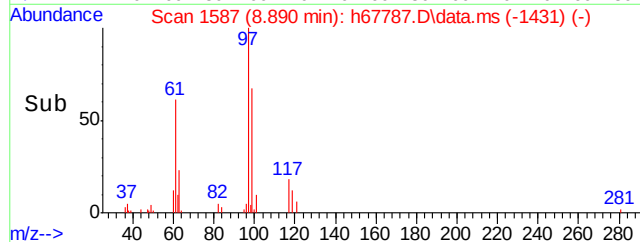
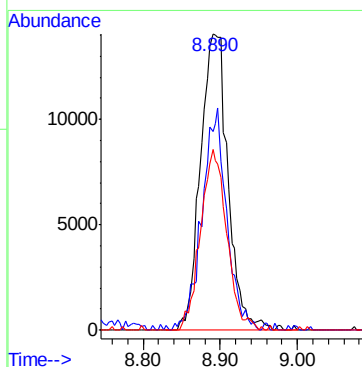
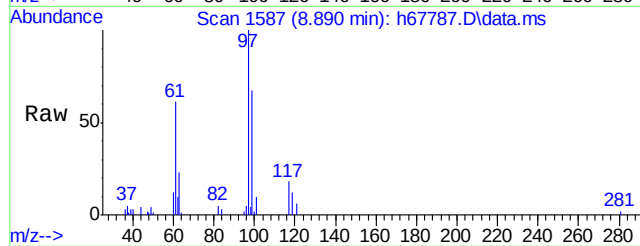
#36
 cis-1,2-dichloroethene
 Concen: 135.83 ug/L
 RT: 7.941 min Scan# 1318
 Delta R.T. 0.004 min
 Lab File: h67787.D
 Acq: 28 Jul 14 12:16 pm

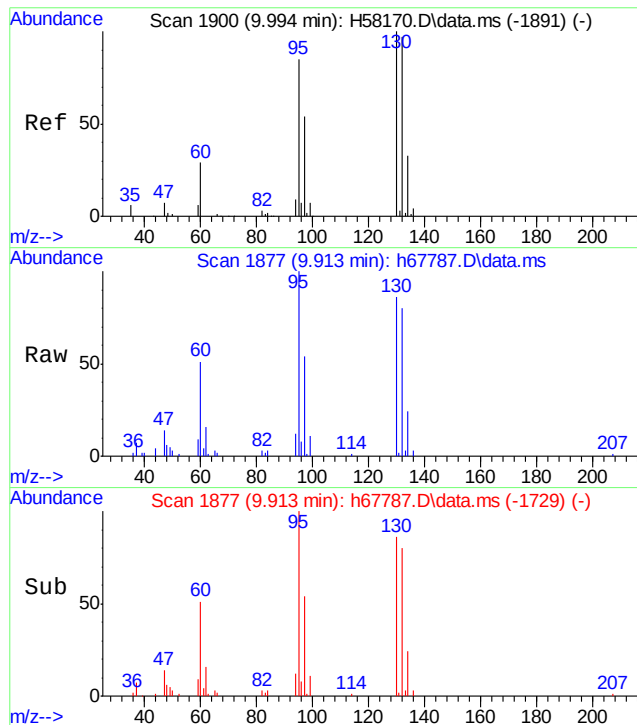
Tgt Ion	96	Resp	407856
Ion Ratio	Lower	Upper	
96	100		
61	162.1	90.6	150.6#
98	65.8	35.0	95.0



#41
 1,1,1-trichloroethane
 Concen: 7.99 ug/L
 RT: 8.890 min Scan# 1587
 Delta R.T. 0.000 min
 Lab File: h67787.D
 Acq: 28 Jul 14 12:16 pm

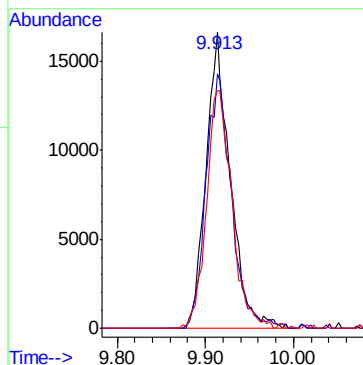
Tgt Ion	97	Resp	34911
Ion Ratio	Lower	Upper	
97	100		
99	65.7	32.9	92.9
61	61.1	5.4	65.4





#51
trichloroethene
Concen: 10.19 ug/L
RT: 9.913 min Scan# 1877
Delta R.T. 0.004 min
Lab File: h67787.D
Acq: 28 Jul 14 12:16 pm

Tgt Ion	Ratio	Lower	Upper
95	100		
130	86.2	83.0	143.0
132	80.3	82.2	142.2#



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\140728\
Data File : h67786.D
Acq On : 28 Jul 2014 11:48 am
Operator : amym
Sample : mc32345-13
Misc : ms32371,msh2253,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 29 09:07:44 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 13:39:42 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.213	65	70439	50.00	ug/L	0.00
4) pentafluorobenzene	8.627	168	256418	50.00	ug/L	0.00
42) 1,4-difluorobenzene	9.495	114	445302	50.00	ug/L	0.00
66) chlorobenzene-d5	12.745	82	228171	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.310	152	141249	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.263	113	144123	52.13	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	104.26%		
60) toluene-d8 (s)	11.287	98	525545	52.54	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	105.08%		
82) bromofluorobenzene (s)	13.976	95	177035	54.40	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	108.80%		

Target Compounds	Qvalue

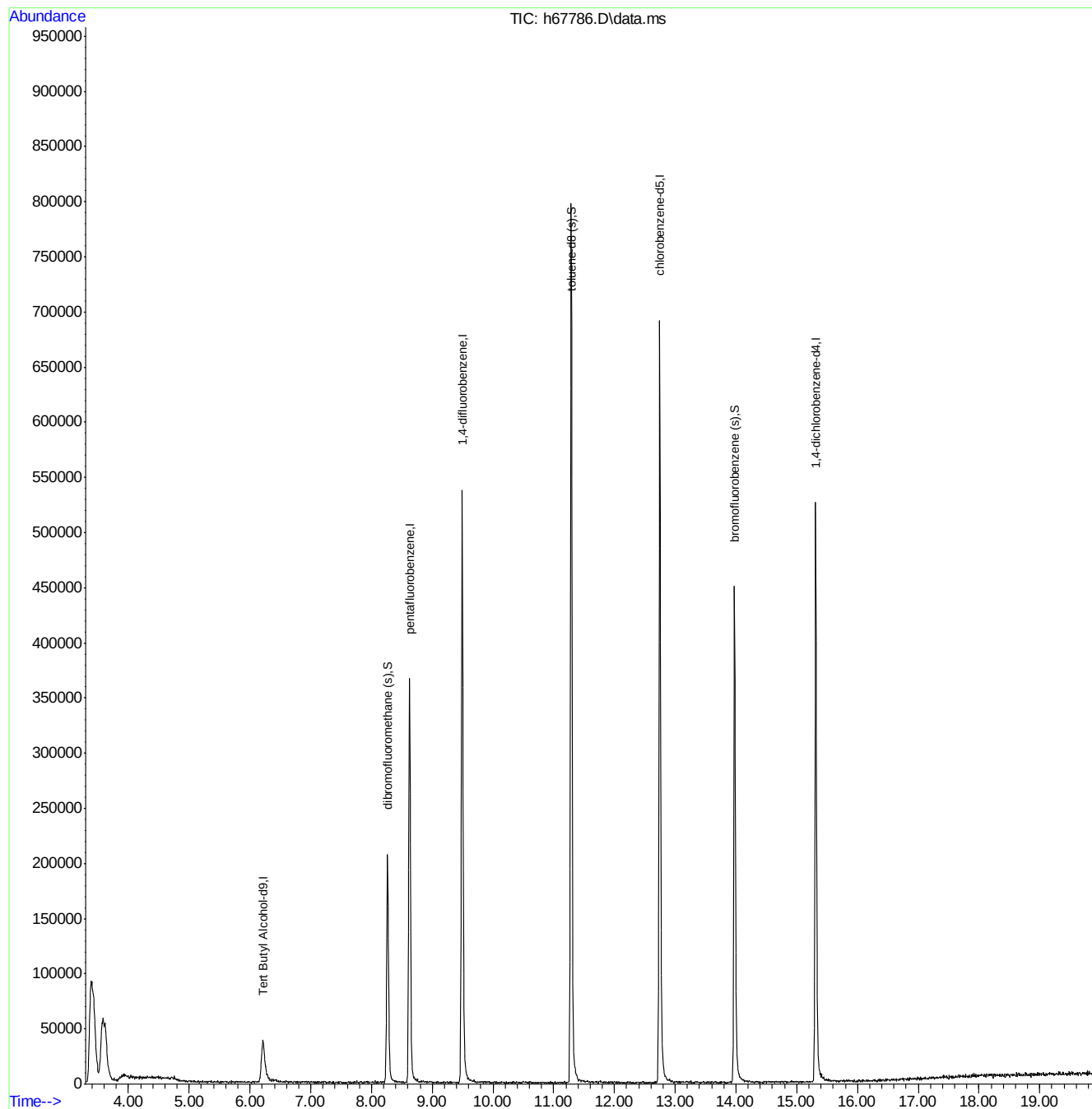
(#)=qualifier out of range (m)=manual integration (+)=signals summed	

7.1.2
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\140728\
Data File : h67786.D
Acq On : 28 Jul 2014 11:48 am
Operator : amym
Sample : mc32345-13
Misc : ms32371,msh2253,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 29 09:07:44 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 13:39:42 2014
Response via : Initial Calibration



Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\140728\
Data File : h67784.D
Acq On : 28 Jul 2014 10:52 am
Operator : amym
Sample : mb
Misc : ms32359,msh2253,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 29 09:05:14 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 13:39:42 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.212	65	87001	50.00	ug/L	0.00
4) pentafluorobenzene	8.626	168	268663	50.00	ug/L	0.00
42) 1,4-difluorobenzene	9.494	114	471219	50.00	ug/L	0.00
66) chlorobenzene-d5	12.748	82	241486	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.313	152	150694	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.266	113	153706	53.06	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	106.12%		
60) toluene-d8 (s)	11.287	98	565031	53.38	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	106.76%		
82) bromofluorobenzene (s)	13.976	95	189546	54.59	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	109.18%		

Target Compounds Qvalue

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

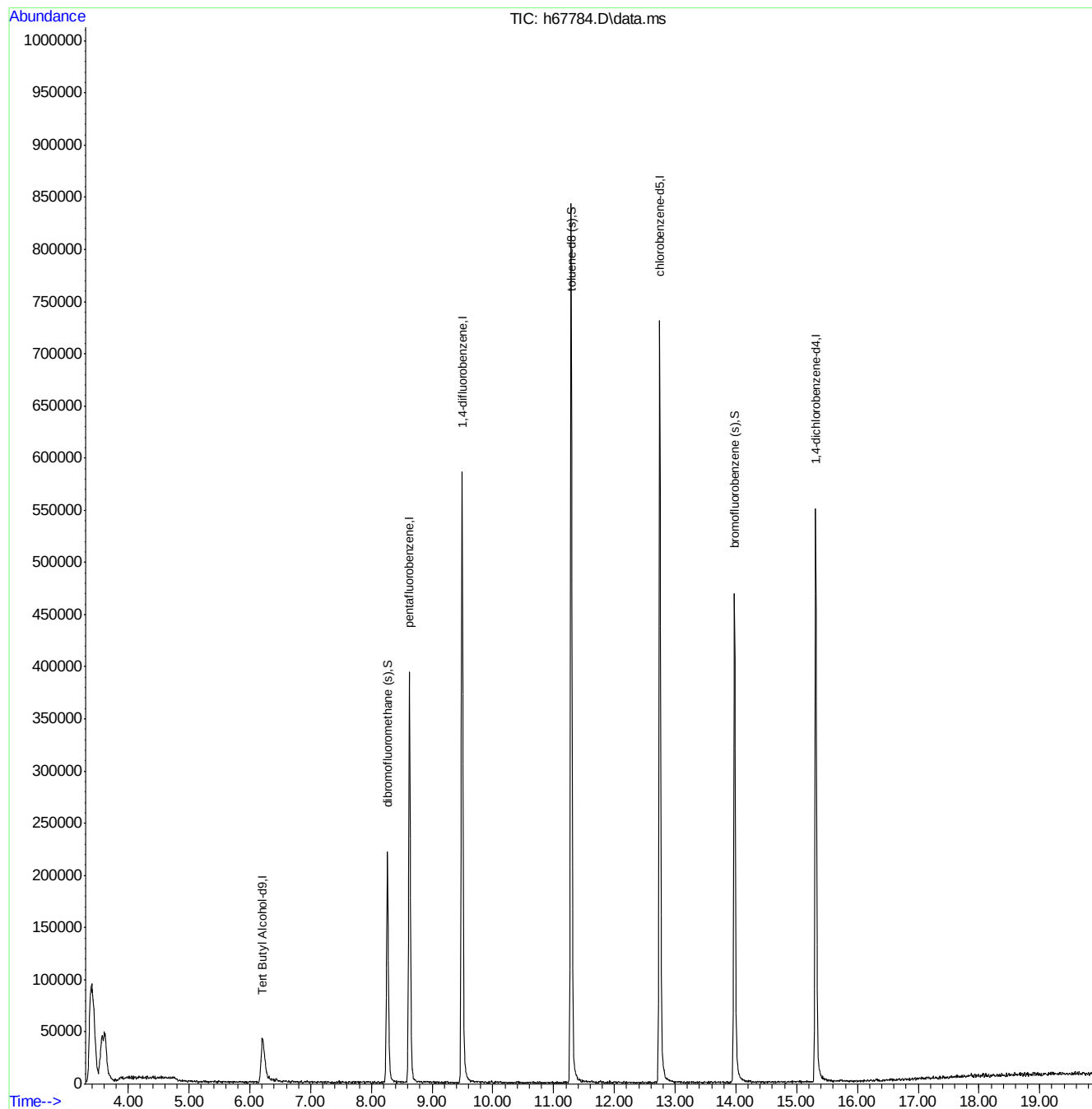
7.2.1

7

Quantitation Report (QT/LSC Reviewed)

Data Path : C:\msdchem\1\DATA\140728\
Data File : h67784.D
Acq On : 28 Jul 2014 10:52 am
Operator : amym
Sample : mb
Misc : ms32359,msh2253,,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 29 09:05:14 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 13:39:42 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\140728\
 Data File : h67782.D
 Acq On : 28 Jul 2014 9:56 am
 Operator : amym
 Sample : bs
 Misc : ms32366,msh2253,,,,5,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 29 09:01:04 2014
 Quant Method : C:\msdchem\1\METHODS\H140716W.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu Jul 17 13:39:42 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.209	65	98152	50.00	ug/L	0.00
4) pentafluorobenzene	8.623	168	304899	50.00	ug/L	0.00
42) 1,4-difluorobenzene	9.495	114	536024	50.00	ug/L	0.00
66) chlorobenzene-d5	12.745	82	306658	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.310	152	228719	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.259	113	186169	56.63	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	113.26%		
60) toluene-d8 (s)	11.287	98	651781	54.13	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	108.26%		
82) bromofluorobenzene (s)	13.973	95	255854	48.55	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	97.10%		
Target Compounds						
					Qvalue	
2) tertiary butyl alcohol	6.290	59	125831	483.65	ug/L	90
3) Ethanol	5.098	45	201013	7168.20	ug/L	95
5) dichlorodifluoromethane	4.035	85	106613	50.53	ug/L	97
6) chloromethane	4.290	50	165481	63.77	ug/L	94
7) vinyl chloride	4.501	62	159011	63.81	ug/L	90
8) bromomethane	4.985	96	107047	49.85	ug/L	99
9) chloroethane	5.122	64	118244	56.41	ug/L	98
10) acetonitrile	5.743	41	23624m	52.47	ug/L	
11) trichlorofluoromethane	5.715	101	236864	51.09	ug/L	99
12) freon-113	6.470	101	151062	52.27	ug/L	84
13) acrolein	5.701	56	82839	268.11	ug/L	97
14) 1,1-dichloroethene	6.283	96	133789	45.98	ug/L #	66
15) acetone	5.842	58	11123	42.21	ug/L	99
16) ethyl ether	5.945	59	133610	52.22	ug/L	81
17) methyl acetate	6.463	43	125435	55.27	ug/L	84
18) methylene chloride	6.439	84	181836	51.81	ug/L #	60
19) methyl tert butyl ether	7.211	73	396133	49.79	ug/L	83
20) acrylonitrile	6.336	53	60070	59.52	ug/L	86
21) allyl chloride	6.523	41	327487	51.94	ug/L	79
22) trans-1,2-dichloroethene	7.120	96	162886	49.39	ug/L #	69
23) iodomethane	6.368	142	216965	50.30	ug/L	86
24) carbon disulfide	6.703	76	361523	39.60	ug/L	92
25) propionitrile	7.381	54	21651	57.68	ug/L	100
26) vinyl acetate	7.469	43	486854	78.18	ug/L	89
27) chloroprene	7.734	53	288417	46.94	ug/L	90
28) di-isopropyl ether	7.779	45	771596	63.98	ug/L	82
29) methacrylonitrile	7.878	41	110381	62.31	ug/L	90
30) 2-butanone	7.787	72	15214	53.90	ug/L #	1
31) 1,1-dichloroethane	7.367	63	362605	58.02	ug/L	95
32) tert-butyl ethyl ether	8.171	59	560479	53.51	ug/L	86
33) Hexane	7.758	41	324273	57.22	ug/L #	92
34) isobutyl alcohol	8.168	43	114493	317.47	ug/L #	73
35) 2,2-dichloropropane	8.224	77	245783	51.51	ug/L	100
36) cis-1,2-dichloroethene	7.938	96	190053	52.01	ug/L #	72

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\140728\
 Data File : h67782.D
 Acq On : 28 Jul 2014 9:56 am
 Operator : amym
 Sample : bs
 Misc : ms32366,msh2253,,,,5,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 29 09:01:04 2014
 Quant Method : C:\msdchem\1\METHODS\H140716W.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu Jul 17 13:39:42 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) ethyl acetate	8.086	43	128017	64.54	ug/L	82
38) bromochloromethane	8.101	128	85393	52.12	ug/L #	29
39) chloroform	8.143	83	335776	57.15	ug/L	100
41) 1,1,1-trichloroethane	8.891	97	260948	49.05	ug/L	89
43) cyclohexane	9.173	56	344294	51.27	ug/L #	69
44) carbon tetrachloride	9.255	117	217095	51.85	ug/L	98
45) 1,1-dichloropropene	9.064	75	239437	52.37	ug/L	93
46) benzene	9.286	78	686933	52.33	ug/L	98
47) tetrahydrofuran	8.475	42	51548	55.43	ug/L	79
48) 1,2-dichloroethane	8.789	62	265596	52.03	ug/L	98
49) tert-amyl methyl ether	9.413	73	394472	48.93	ug/L	82
50) heptane	9.773	43	302732	52.57	ug/L	83
51) trichloroethene	9.907	95	190424	49.17	ug/L	76
52) 1,2-dichloropropane	9.876	63	216957	58.94	ug/L	93
53) dibromomethane	9.844	93	111631	52.98	ug/L	85
54) bromodichloromethane	9.960	83	241590	51.56	ug/L	95
55) methylcyclohexane	10.426	83	262361	47.11	ug/L #	75
57) methyl methacrylate	10.066	69	93137	51.40	ug/L	74
58) 1,4-dioxane	10.059	88	5885	240.13	ug/L	98
59) cis-1,3-dichloropropene	10.581	75	276515	51.93	ug/L	88
61) 4-methyl-2-pentanone	10.680	43	189519	58.91	ug/L	89
62) toluene	11.358	92	405715	49.36	ug/L	100
63) trans-1,3-dichloropropene	11.005	75	226474	48.26	ug/L	98
64) 1,1,2-trichloroethane	11.174	83	129664	53.68	ug/L	88
65) ethyl methacrylate	11.386	69	195947	54.68	ug/L	87
67) tetrachloroethene	12.099	166	158666	45.29	ug/L	98
68) 1,3-dichloropropane	11.411	76	259564	51.99	ug/L	99
69) dibromochloromethane	11.693	129	159230	49.91	ug/L	92
70) 1,2-dibromoethane	11.947	107	143948	46.94	ug/L	99
71) 2-hexanone	11.538	43	115663	53.48	ug/L	93
72) chlorobenzene	12.780	112	455957	46.87	ug/L	89
73) 1,1,1,2-tetrachloroethane	12.699	131	157087	49.25	ug/L	93
74) ethylbenzene	12.960	91	785215	45.74	ug/L	95
75) m,p-xylene	13.143	106	585566	91.00	ug/L	95
76) o-xylene	13.553	106	295684	44.88	ug/L	95
77) styrene	13.482	104	443498	43.55	ug/L	94
78) bromoform	13.302	173	88254	42.26	ug/L	98
79) trans-1,4-dichloro-2-b...	13.711	53	50747	47.64	ug/L	89
81) isopropylbenzene	13.920	105	743799	44.52	ug/L	99
83) bromobenzene	14.198	156	167587	45.19	ug/L #	69
84) 1,1,2,2-tetrachloroethane	13.556	83	193097	54.21	ug/L	93
85) 1,2,3-trichloropropane	13.708	75	199818	52.21	ug/L	99
86) n-propylbenzene	14.364	91	912182	49.16	ug/L	90
87) 2-chlorotoluene	14.481	91	558579	44.88	ug/L	85
88) 4-chlorotoluene	14.555	91	578063	47.24	ug/L	86
89) 1,3,5-trimethylbenzene	14.647	105	672498	46.22	ug/L	97
90) tert-butylbenzene	14.950	91	399457	45.44	ug/L	83
91) 1,2,4-trimethylbenzene	15.056	105	644307	46.66	ug/L	99
92) sec-butylbenzene	15.172	105	826394	45.98	ug/L	96
93) 1,3-dichlorobenzene	15.271	146	323840	46.58	ug/L	93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\140728\
Data File : h67782.D
Acq On : 28 Jul 2014 9:56 am
Operator : amym
Sample : bs
Misc : ms32366,msh2253,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 29 09:01:04 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 13:39:42 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) p-isopropyltoluene	15.349	119	666909	48.52	ug/L	95
95) 1,4-dichlorobenzene	15.338	146	334499	48.38	ug/L	94
96) 1,2-dichlorobenzene	15.705	146	307056	44.82	ug/L	96
97) n-butylbenzene	15.765	91	627020	50.22	ug/L	86
98) 1,2-dibromo-3-chloropr...	16.189	75	28134	51.14	ug/L #	66
99) 1,3,5-trichlorobenzene	17.004	180	198222	46.06	ug/L	97
100) 1,2,4-trichlorobenzene	17.558	180	138069	40.46	ug/L	96
101) hexachlorobutadiene	17.861	225	90289	40.13	ug/L	98
102) naphthalene	17.837	128	260568	37.75	ug/L	100
103) 1,2,3-trichlorobenzene	17.558	180	138069	40.46	ug/L	98
104) 2-Methylnaphthalene	19.301	142	21195	17.46	ug/L	94
105) 1-Methylnaphthalene	19.559	TIC	82911m	16.88	ug/L	

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

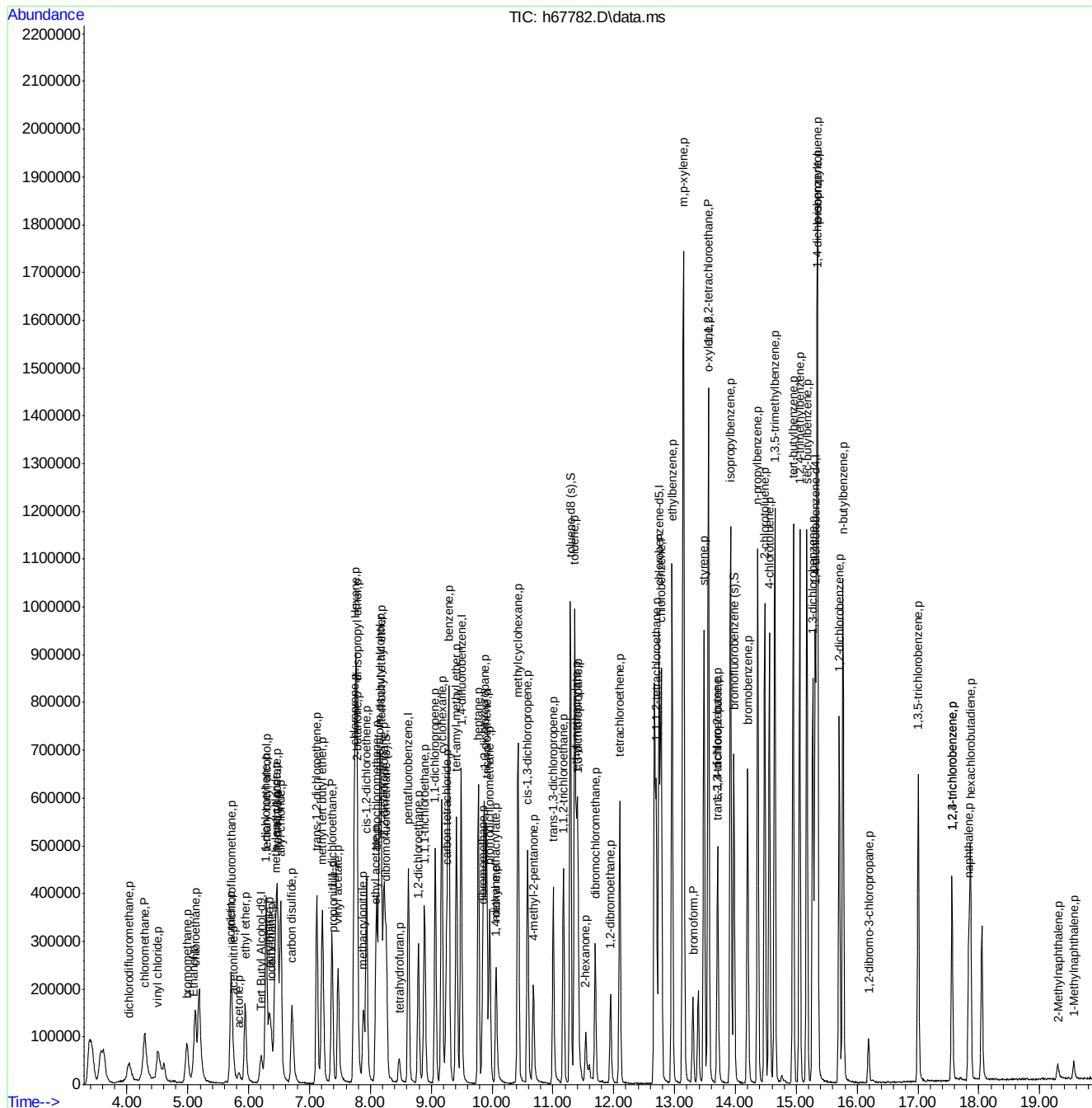
Quantitation Report (QT Reviewed)

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Data Path   : C:\msdchem\1\DATA\140728\
Data File   : h67782.D
Acq On      : 28 Jul 2014    9:56 am
Operator    : amym
Sample      : bs
Misc        : ms32366,msh2253,,,,5,1
ALS Vial    : 4      Sample Multiplier: 1

```

Quant Time: Jul 29 09:01:04 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 13:39:42 2014
Response via : Initial Calibration



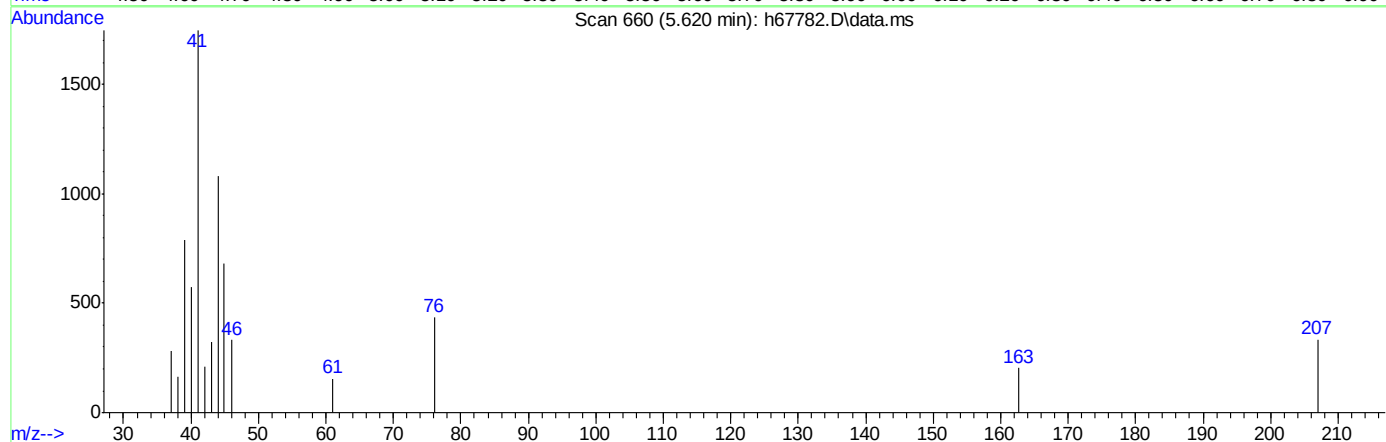
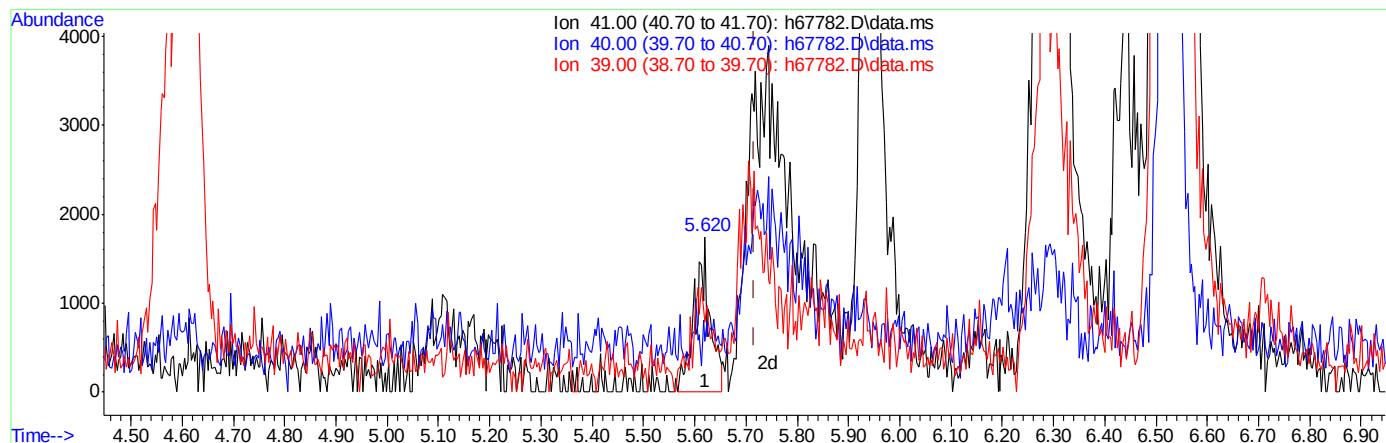
H140716W.M Tue Jul 29 09:01:13 2014

Page: 4

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\140728\
Data File : h67782.D
Acq On : 28 Jul 2014 9:56 am
Operator : amym
Sample : bs
Misc : ms32366,msh2253,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 29 08:52:33 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 13:39:42 2014
Response via : Initial Calibration



TIC: h67782.D\data.ms

(10) acetonitrile (p)

5.620min (-0.097) 9.85ug/L

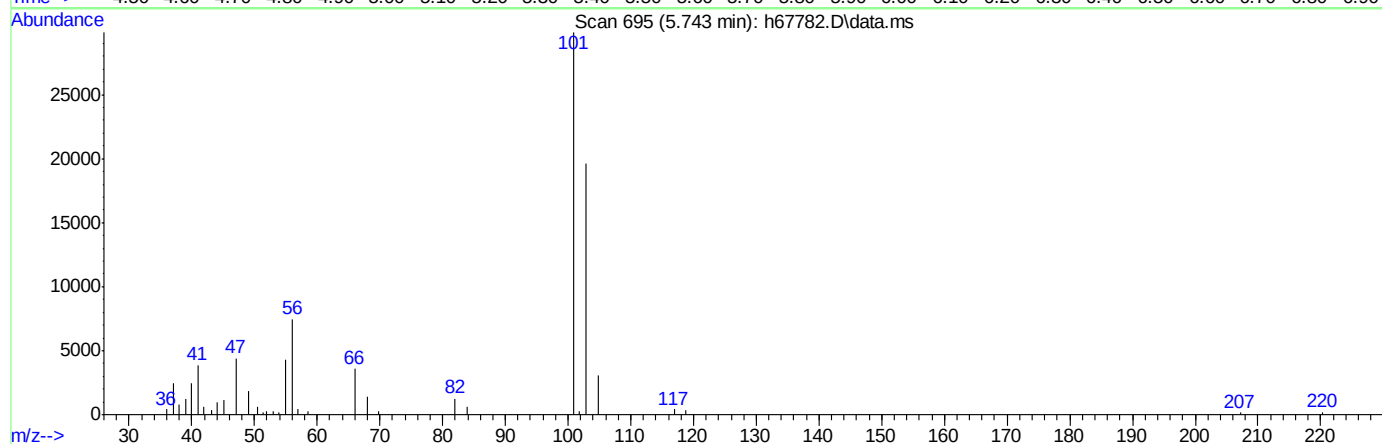
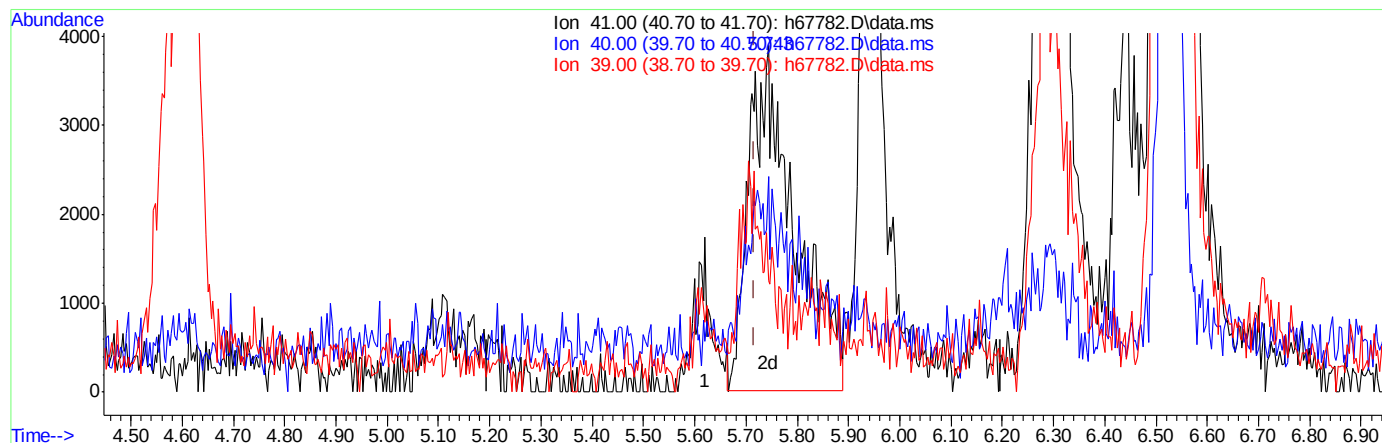
response 3509

Ion	Exp%	Act%
41.00	100	100
40.00	22.50	12.54
39.00	56.70	30.34
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\140728\
Data File : h67782.D
Acq On : 28 Jul 2014 9:56 am
Operator : amym
Sample : bs
Misc : ms32366,msh2253,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 29 08:52:33 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 13:39:42 2014
Response via : Initial Calibration



TIC: h67782.D\data.ms

(10) acetonitrile (p)

5.743min (+0.026) 52.47ug/L m

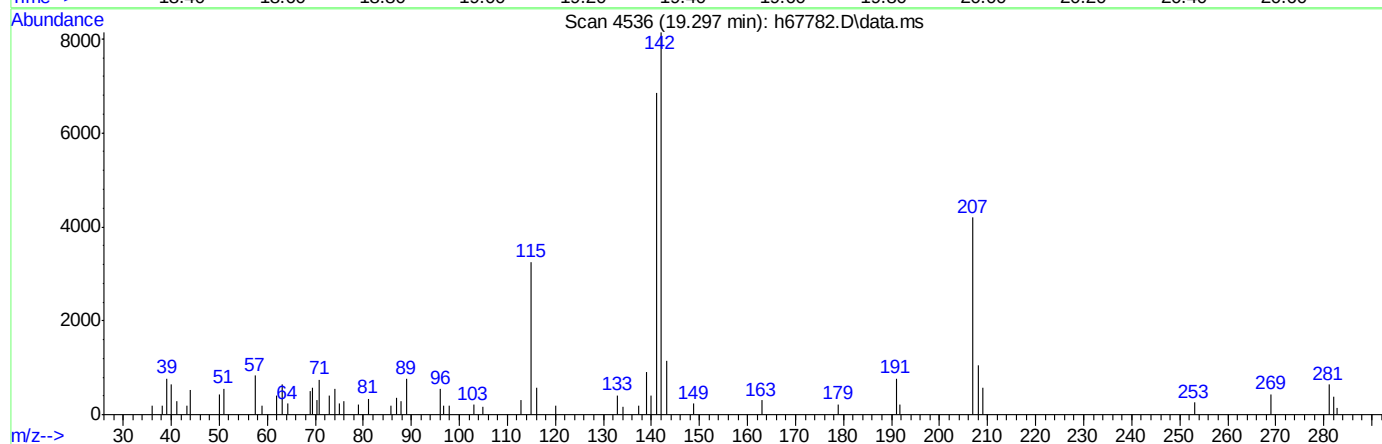
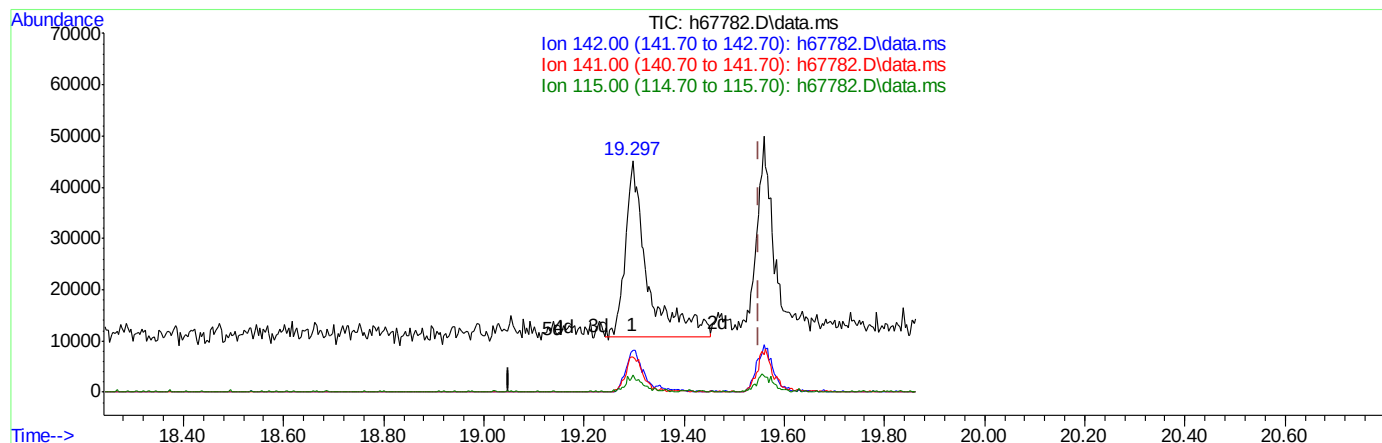
response 23624

Ion	Exp%	Act%
41.00	100	100
40.00	22.50	62.22#
39.00	56.70	32.15
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\140728\
Data File : h67782.D
Acq On : 28 Jul 2014 9:56 am
Operator : amym
Sample : bs
Misc : ms32366,msh2253,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 29 08:52:33 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 13:39:42 2014
Response via : Initial Calibration



(105) 1-Methylnaphthalene (p)

19.297min (-0.252) 21.47ug/L

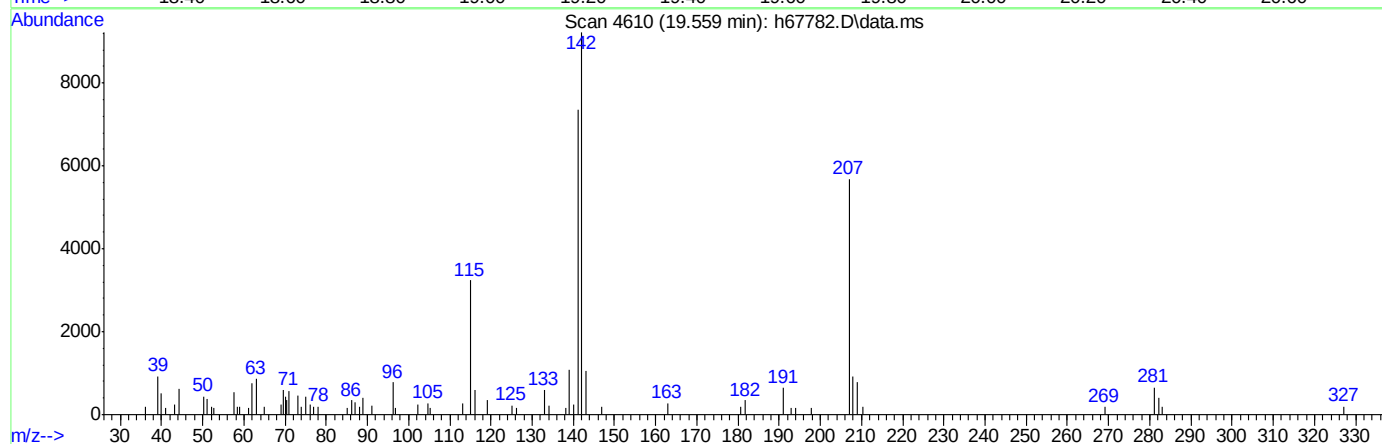
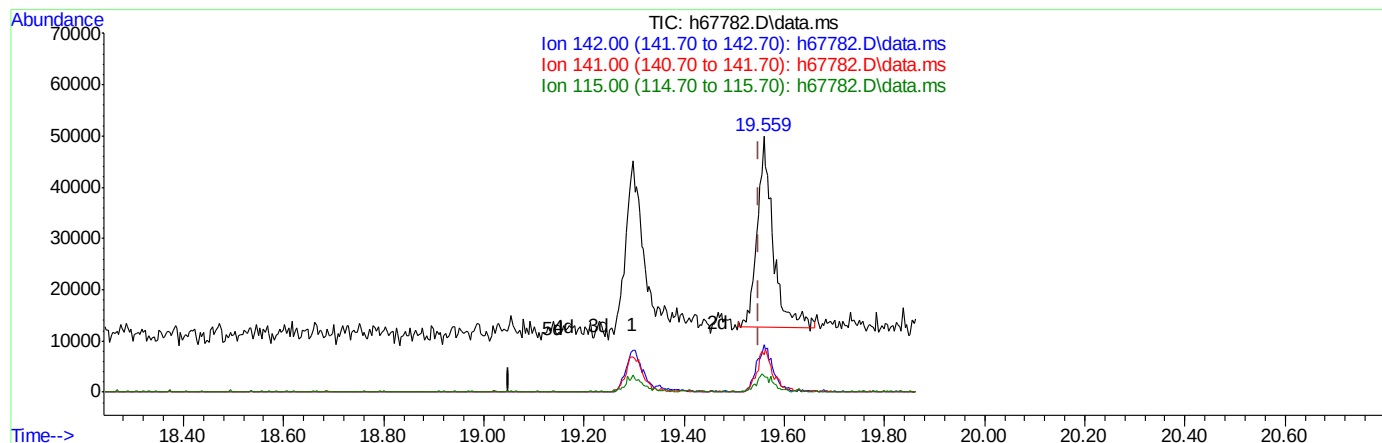
response 105438

Signal	Exp%	Act%
TIC	100	100
142.00	21.50	20.15
141.00	18.10	17.00
115.00	9.20	7.86

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\140728\
Data File : h67782.D
Acq On : 28 Jul 2014 9:56 am
Operator : amym
Sample : bs
Misc : ms32366,msh2253,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 29 08:52:33 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 13:39:42 2014
Response via : Initial Calibration



(105) 1-Methylnaphthalene (p)

19.559min (+0.009) 16.88ug/L m

response 82911

Signal	Exp%	Act%

TIC	100	100

142.00	21.50	25.63

141.00	18.10	21.62

115.00	9.20	9.99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\140728\
 Data File : h67793.D
 Acq On : 28 Jul 2014 3:06 pm
 Operator : amym
 Sample : mc32345-12ms
 Misc : ms32371,msh2253,,,,,5,5
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 29 09:14:57 2014
 Quant Method : C:\msdchem\1\METHODS\H140716W.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu Jul 17 13:39:42 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.205	65	97583	50.00	ug/L	0.00
4) pentafluorobenzene	8.626	168	304963	50.00	ug/L	0.00
42) 1,4-difluorobenzene	9.494	114	532448	50.00	ug/L	0.00
66) chlorobenzene-d5	12.744	82	300641	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.310	152	204387	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.259	113	176635	53.72	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	107.44%		
60) toluene-d8 (s)	11.287	98	644595	53.90	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	107.80%		
82) bromofluorobenzene (s)	13.976	95	239434	50.85	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	101.70%		
Target Compounds						
						Qvalue
2) tertiary butyl alcohol	6.287	59	125372	484.69	ug/L	94
3) Ethanol	5.104	45	195923	7027.42	ug/L	99
5) dichlorodifluoromethane	4.042	85	94245	44.66	ug/L	87
6) chloromethane	4.282	50	142241	54.28	ug/L	96
7) vinyl chloride	4.515	62	155119	62.23	ug/L	98
8) bromomethane	4.981	96	105335	49.04	ug/L	98
9) chloroethane	5.126	64	115340	55.01	ug/L	100
10) acetonitrile	5.726	41	23928	53.10	ug/L	65
11) trichlorofluoromethane	5.711	101	235160	50.71	ug/L	99
12) freon-113	6.474	101	159007	55.01	ug/L	78
13) acrolein	5.711	56	76783	248.45	ug/L	97
14) 1,1-dichloroethene	6.287	96	142922	49.11	ug/L #	54
15) acetone	5.849	58	14447	54.81	ug/L	98
16) ethyl ether	5.948	59	132746	51.87	ug/L	81
17) methyl acetate	6.467	43	130254	57.38	ug/L	84
18) methylene chloride	6.442	84	184373	52.52	ug/L #	59
19) methyl tert butyl ether	7.211	73	401629	50.47	ug/L	81
20) acrylonitrile	6.343	53	65052	64.44	ug/L	88
21) allyl chloride	6.527	41	322974	51.21	ug/L	78
22) trans-1,2-dichloroethene	7.119	96	173633	52.64	ug/L #	78
23) iodomethane	6.371	142	224942	52.14	ug/L	89
24) carbon disulfide	6.710	76	398273	43.61	ug/L	96
25) propionitrile	7.384	54	20462	54.66	ug/L	100
26) vinyl acetate	7.469	43	497766	79.91	ug/L	89
27) chloroprene	7.733	53	291999	47.51	ug/L	92
28) di-isopropyl ether	7.779	45	754277	62.53	ug/L	83
29) methacrylonitrile	7.889	41	102761	57.99	ug/L	91
30) 2-butanone	7.786	72	16407	58.11	ug/L #	1
31) 1,1-dichloroethane	7.370	63	421424	67.42	ug/L	94
32) tert-butyl ethyl ether	8.171	59	562050	53.65	ug/L	85
33) Hexane	7.758	41	321548	56.72	ug/L #	89
34) isobutyl alcohol	8.171	43	108926	301.97	ug/L #	61
35) 2,2-dichloropropane	8.227	77	251556	52.70	ug/L	94
36) cis-1,2-dichloroethene	7.938	96	281104	76.91	ug/L #	76

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\140728\
 Data File : h67793.D
 Acq On : 28 Jul 2014 3:06 pm
 Operator : amym
 Sample : mc32345-12ms
 Misc : ms32371,msh2253,,,,,5,5
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 29 09:14:57 2014
 Quant Method : C:\msdchem\1\METHODS\H140716W.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu Jul 17 13:39:42 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) ethyl acetate	8.086	43	131389	66.23	ug/L	83
38) bromochloromethane	8.104	128	86967	53.07	ug/L #	34
39) chloroform	8.143	83	343295	58.42	ug/L	99
41) 1,1,1-trichloroethane	8.891	97	281512	52.90	ug/L	89
43) cyclohexane	9.177	56	368374	55.23	ug/L #	68
44) carbon tetrachloride	9.254	117	225507	54.22	ug/L	92
45) 1,1-dichloropropene	9.067	75	254826	56.11	ug/L	91
46) benzene	9.290	78	713448	54.72	ug/L	98
47) tetrahydrofuran	8.474	42	49458	53.54	ug/L	69
48) 1,2-dichloroethane	8.792	62	263384	51.95	ug/L	100
49) tert-amyl methyl ether	9.413	73	402288	50.24	ug/L	81
50) heptane	9.773	43	309549	54.11	ug/L	81
51) trichloroethene	9.911	95	208346	54.16	ug/L #	73
52) 1,2-dichloropropane	9.875	63	217922	59.60	ug/L	95
53) dibromomethane	9.851	93	109102	52.12	ug/L	85
54) bromodichloromethane	9.964	83	243372	52.29	ug/L	96
55) methylcyclohexane	10.426	83	285933	51.68	ug/L #	72
57) methyl methacrylate	10.069	69	95605	53.11	ug/L	80
58) 1,4-dioxane	10.073	88	6034	247.86	ug/L	97
59) cis-1,3-dichloropropene	10.585	75	278732	52.69	ug/L	83
61) 4-methyl-2-pentanone	10.680	43	188010	58.83	ug/L	89
62) toluene	11.357	92	425113	52.07	ug/L	96
63) trans-1,3-dichloropropene	11.005	75	227708	48.85	ug/L	93
64) 1,1,2-trichloroethane	11.170	83	132982	55.43	ug/L	88
65) ethyl methacrylate	11.389	69	201225	56.53	ug/L	82
67) tetrachloroethene	12.099	166	162077	47.19	ug/L	99
68) 1,3-dichloropropane	11.410	76	262662	53.66	ug/L	98
69) dibromochloromethane	11.693	129	150530	48.13	ug/L	99
70) 1,2-dibromoethane	11.947	107	144481	48.06	ug/L	94
71) 2-hexanone	11.541	43	117651	55.48	ug/L	92
72) chlorobenzene	12.776	112	463740	48.62	ug/L	86
73) 1,1,1,2-tetrachloroethane	12.698	131	156343	50.00	ug/L	89
74) ethylbenzene	12.960	91	826228	49.10	ug/L	97
75) m,p-xylene	13.143	106	610085	96.71	ug/L	99
76) o-xylene	13.552	106	299317	46.34	ug/L	97
77) styrene	13.482	104	437310	43.80	ug/L	92
78) bromoform	13.298	173	82487	40.34	ug/L	99
79) trans-1,4-dichloro-2-b...	13.708	53	45090	43.44	ug/L #	55
81) isopropylbenzene	13.919	105	754471	50.54	ug/L	98
83) bromobenzene	14.202	156	163173	49.24	ug/L #	71
84) 1,1,2,2-tetrachloroethane	13.556	83	189943	59.92	ug/L	97
85) 1,2,3-trichloropropane	13.708	75	192470	56.27	ug/L	100
86) n-propylbenzene	14.364	91	918789	55.41	ug/L	91
87) 2-chlorotoluene	14.480	91	560054	50.36	ug/L	86
88) 4-chlorotoluene	14.558	91	562897	51.48	ug/L	85
89) 1,3,5-trimethylbenzene	14.646	105	662893	50.98	ug/L	100
90) tert-butylbenzene	14.950	91	391290	49.80	ug/L	84
91) 1,2,4-trimethylbenzene	15.056	105	646153	52.37	ug/L	97
92) sec-butylbenzene	15.172	105	810895	50.48	ug/L	96
93) 1,3-dichlorobenzene	15.271	146	306278	49.30	ug/L	92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\140728\
Data File : h67793.D
Acq On : 28 Jul 2014 3:06 pm
Operator : amym
Sample : mc32345-12ms
Misc : ms32371,msh2253,,,,5,5
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 29 09:14:57 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 13:39:42 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) p-isopropyltoluene	15.349	119	636555	51.83	ug/L	97
95) 1,4-dichlorobenzene	15.338	146	317923	51.46	ug/L	95
96) 1,2-dichlorobenzene	15.705	146	292485	47.78	ug/L	94
97) n-butylbenzene	15.768	91	595630	53.39	ug/L	86
98) 1,2-dibromo-3-chloropr...	16.188	75	25768	52.42	ug/L #	65
99) 1,3,5-trichlorobenzene	17.004	180	180798	47.01	ug/L	96
100) 1,2,4-trichlorobenzene	17.561	180	114818	37.84	ug/L	99
101) hexachlorobutadiene	17.865	225	86179	42.86	ug/L	98
102) naphthalene	17.836	128	235859	38.19	ug/L	100
103) 1,2,3-trichlorobenzene	17.561	180	114818	37.84	ug/L	98
104) 2-Methylnaphthalene	19.297	142	17931	16.79	ug/L	91
105) 1-Methylnaphthalene	19.565	TIC	78077	17.79	ug/L	96

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

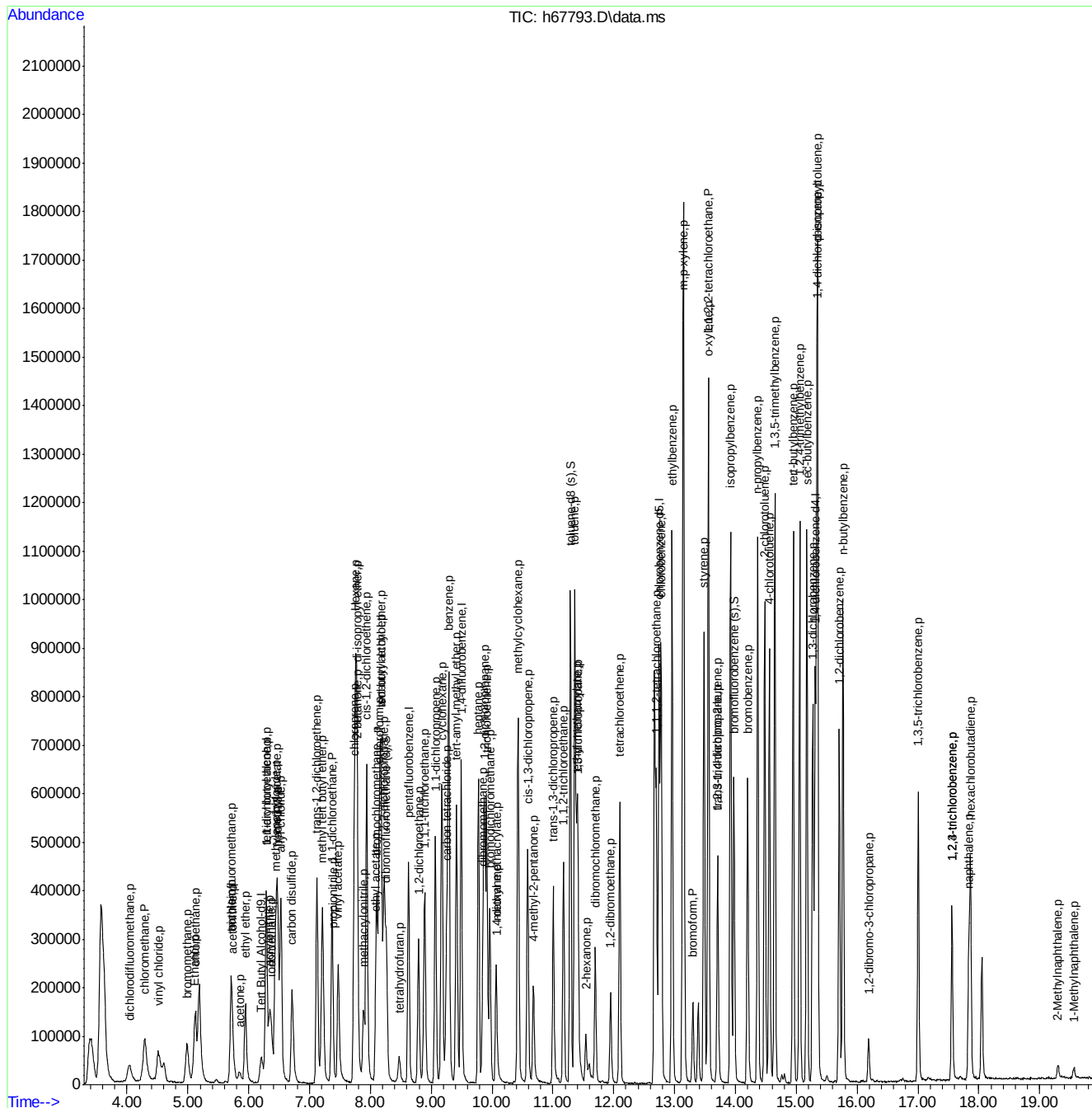
7.4.1

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\140728\
Data File : h67793.D
Acq On : 28 Jul 2014 3:06 pm
Operator : amym
Sample : mc32345-12ms
Misc : ms32371,msh2253,,,,5,5
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 29 09:14:57 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 13:39:42 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\140728\
 Data File : h67794.D
 Acq On : 28 Jul 2014 3:35 pm
 Operator : amym
 Sample : mc32345-12msd
 Misc : ms32371,msh2253,,,,,5,5
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 29 09:16:00 2014
 Quant Method : C:\msdchem\1\METHODS\H140716W.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu Jul 17 13:39:42 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.208	65	104569	50.00	ug/L	0.00
4) pentafluorobenzene	8.625	168	316084	50.00	ug/L	0.00
42) 1,4-difluorobenzene	9.490	114	568755	50.00	ug/L	0.00
66) chlorobenzene-d5	12.743	82	318944	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.312	152	221552	50.00	ug/L	0.00

System Monitoring Compounds						
40) dibromofluoromethane (s)	8.262	113	194677	57.12	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	114.24%
60) toluene-d8 (s)	11.286	98	685642	53.67	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	107.34%
82) bromofluorobenzene (s)	13.971	95	258599	50.66	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	101.32%

Target Compounds						Qvalue
2) tertiary butyl alcohol	6.285	59	128947	465.21	ug/L	98
3) Ethanol	5.114	45	203138	6799.44	ug/L	100
5) dichlorodifluoromethane	4.031	85	92064	42.09	ug/L	95
6) chloromethane	4.295	50	144636	53.19	ug/L	94
7) vinyl chloride	4.514	62	152585	59.06	ug/L	92
8) bromomethane	4.983	96	103191	46.35	ug/L	97
9) chloroethane	5.121	64	115174	53.00	ug/L	97
10) acetonitrile	5.724	41	22307	48.01	ug/L	74
11) trichlorofluoromethane	5.717	101	231574	48.18	ug/L	96
12) freon-113	6.476	101	156863	52.36	ug/L	83
13) acrolein	5.703	56	82240	256.75	ug/L	92
14) 1,1-dichloroethene	6.285	96	143415	47.55	ug/L #	65
15) acetone	5.841	58	15262	55.86	ug/L	94
16) ethyl ether	5.943	59	135694	51.16	ug/L	81
17) methyl acetate	6.465	43	136622	58.07	ug/L	84
18) methylene chloride	6.441	84	189214	52.00	ug/L #	54
19) methyl tert butyl ether	7.213	73	407756	49.44	ug/L	78
20) acrylonitrile	6.349	53	64977	62.10	ug/L	96
21) allyl chloride	6.529	41	334034	51.10	ug/L	84
22) trans-1,2-dichloroethene	7.118	96	170591	49.90	ug/L #	72
23) iodomethane	6.367	142	225652	50.47	ug/L	91
24) carbon disulfide	6.712	76	414557	43.80	ug/L	99
25) propionitrile	7.390	54	21203	54.64	ug/L	100
26) vinyl acetate	7.471	43	502650	77.86	ug/L	89
27) chloroprene	7.736	53	288707	45.32	ug/L	92
28) di-isopropyl ether	7.778	45	765933	61.27	ug/L	81
29) methacrylonitrile	7.888	41	110023	59.91	ug/L	96
30) 2-butanone	7.785	72	16373	55.95	ug/L #	1
31) 1,1-dichloroethane	7.369	63	425321	65.65	ug/L	91
32) tert-butyl ethyl ether	8.173	59	574015	52.87	ug/L	87
33) Hexane	7.760	41	320599	54.57	ug/L #	91
34) isobutyl alcohol	8.170	43	117712	314.84	ug/L	78
35) 2,2-dichloropropane	8.230	77	250751	50.69	ug/L	95
36) cis-1,2-dichloroethene	7.937	96	281427	74.29	ug/L #	74

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\140728\
Data File : h67794.D
Acq On : 28 Jul 2014 3:35 pm
Operator : amym
Sample : mc32345-12msd
Misc : ms32371,msh2253,,,,,5,5
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 29 09:16:00 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 13:39:42 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) ethyl acetate	8.085	43	135378	65.84	ug/L	86
38) bromochloromethane	8.106	128	87458	51.50	ug/L #	32
39) chloroform	8.142	83	344913	56.63	ug/L	100
41) 1,1,1-trichloroethane	8.890	97	276572	50.14	ug/L	90
43) cyclohexane	9.176	56	355371	49.88	ug/L #	70
44) carbon tetrachloride	9.253	117	224895	50.62	ug/L	92
45) 1,1-dichloropropene	9.066	75	253244	52.20	ug/L	90
46) benzene	9.288	78	702151	50.41	ug/L	98
47) tetrahydrofuran	8.470	42	53649	54.37	ug/L	75
48) 1,2-dichloroethane	8.787	62	270590	49.96	ug/L	100
49) tert-amyl methyl ether	9.415	73	415172	48.54	ug/L	86
50) heptane	9.775	43	301909	49.41	ug/L	86
51) trichloroethene	9.909	95	203081	49.42	ug/L	76
52) 1,2-dichloropropane	9.874	63	223430	57.20	ug/L	94
53) dibromomethane	9.850	93	112776	50.44	ug/L	83
54) bromodichloromethane	9.959	83	246914	49.66	ug/L	96
55) methylcyclohexane	10.425	83	275383	46.60	ug/L #	78
57) methyl methacrylate	10.065	69	95101	49.46	ug/L #	73
58) 1,4-dioxane	10.068	88	7275	279.76	ug/L	75
59) cis-1,3-dichloropropene	10.584	75	286592	50.72	ug/L	86
61) 4-methyl-2-pentanone	10.679	43	191440	56.08	ug/L	89
62) toluene	11.360	92	416517	47.76	ug/L	96
63) trans-1,3-dichloropropene	11.007	75	229368	46.06	ug/L	96
64) 1,1,2-trichloroethane	11.173	83	131533	51.32	ug/L	90
65) ethyl methacrylate	11.388	69	204325	53.74	ug/L	82
67) tetrachloroethene	12.101	166	159462	43.76	ug/L	95
68) 1,3-dichloropropane	11.413	76	264066	50.85	ug/L	97
69) dibromochloromethane	11.695	129	157916	47.59	ug/L	94
70) 1,2-dibromoethane	11.946	107	144517	45.31	ug/L	93
71) 2-hexanone	11.543	43	116722	51.89	ug/L	94
72) chlorobenzene	12.778	112	461215	45.58	ug/L	87
73) 1,1,1,2-tetrachloroethane	12.697	131	159172	47.98	ug/L	94
74) ethylbenzene	12.958	91	802891	44.97	ug/L	95
75) m,p-xylene	13.145	106	598294	89.39	ug/L	98
76) o-xylene	13.555	106	300098	43.80	ug/L	97
77) styrene	13.481	104	443536	41.87	ug/L	93
78) bromoform	13.301	173	85983	39.65	ug/L	99
79) trans-1,4-dichloro-2-b...	13.714	53	46140	42.00	ug/L	91
81) isopropylbenzene	13.918	105	740095	45.74	ug/L	96
83) bromobenzene	14.201	156	164307	45.74	ug/L #	60
84) 1,1,2,2-tetrachloroethane	13.558	83	190889	55.37	ug/L	90
85) 1,2,3-trichloropropane	13.706	75	196587	53.02	ug/L	100
86) n-propylbenzene	14.366	91	901143	50.14	ug/L	91
87) 2-chlorotoluene	14.479	91	546538	45.34	ug/L	86
88) 4-chlorotoluene	14.557	91	564694	47.64	ug/L	87
89) 1,3,5-trimethylbenzene	14.645	105	654930	46.47	ug/L	96
90) tert-butylbenzene	14.949	91	385673	45.29	ug/L	83
91) 1,2,4-trimethylbenzene	15.054	105	637352	47.65	ug/L	97
92) sec-butylbenzene	15.174	105	799116	45.90	ug/L	97
93) 1,3-dichlorobenzene	15.270	146	304968	45.28	ug/L	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\140728\
Data File : h67794.D
Acq On : 28 Jul 2014 3:35 pm
Operator : amym
Sample : mc32345-12msd
Misc : ms32371,msh2253,,,,5,5
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 29 09:16:00 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 13:39:42 2014
Response via : Initial Calibration

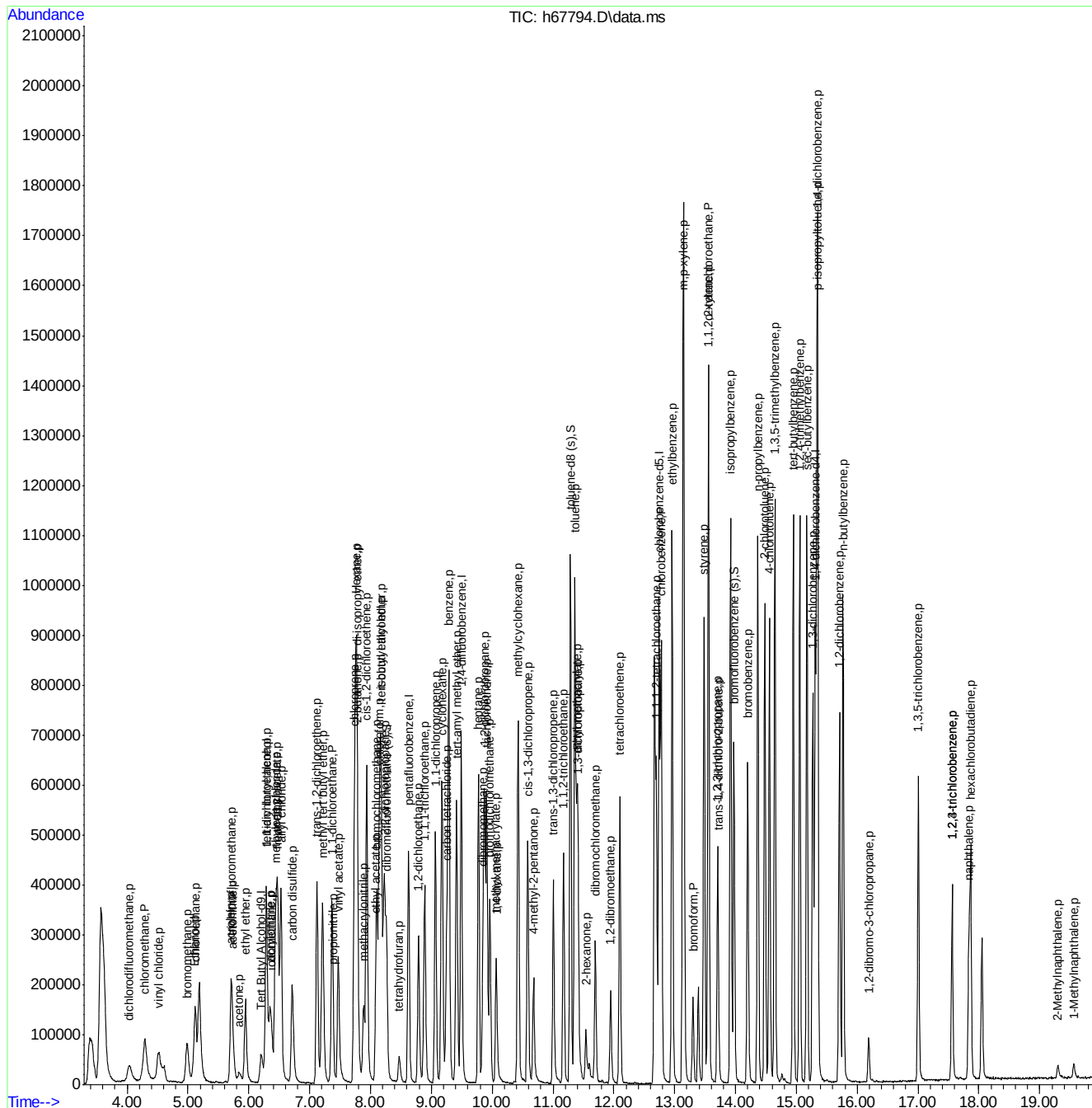
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94)	p-isopropyltoluene	15.347	119	636392	47.80	ug/L	95
95)	1,4-dichlorobenzene	15.340	146	317519	47.41	ug/L	94
96)	1,2-dichlorobenzene	15.707	146	295569	44.54	ug/L	95
97)	n-butylbenzene	15.767	91	594455	49.15	ug/L	88
98)	1,2-dibromo-3-chloropr...	16.187	75	26299	49.35	ug/L #	68
99)	1,3,5-trichlorobenzene	17.006	180	185978	44.61	ug/L	96
100)	1,2,4-trichlorobenzene	17.560	180	126421	38.40	ug/L	95
101)	hexachlorobutadiene	17.863	225	84610	38.82	ug/L	94
102)	naphthalene	17.835	128	240161	36.10	ug/L	100
103)	1,2,3-trichlorobenzene	17.560	180	126421	38.40	ug/L	93
104)	2-Methylnaphthalene	19.293	142	17840	15.81	ug/L	100
105)	1-Methylnaphthalene	19.561	TIC	80232	16.87	ug/L	95

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\140728\
Data File : h67794.D
Acq On : 28 Jul 2014 3:35 pm
Operator : amym
Sample : mc32345-12msd
Misc : ms32371,msh2253,,,,5,5
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 29 09:16:00 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 13:39:42 2014
Response via : Initial Calibration



H140716W.M Tue Jul 29 09:16:29 2014

Page: 4

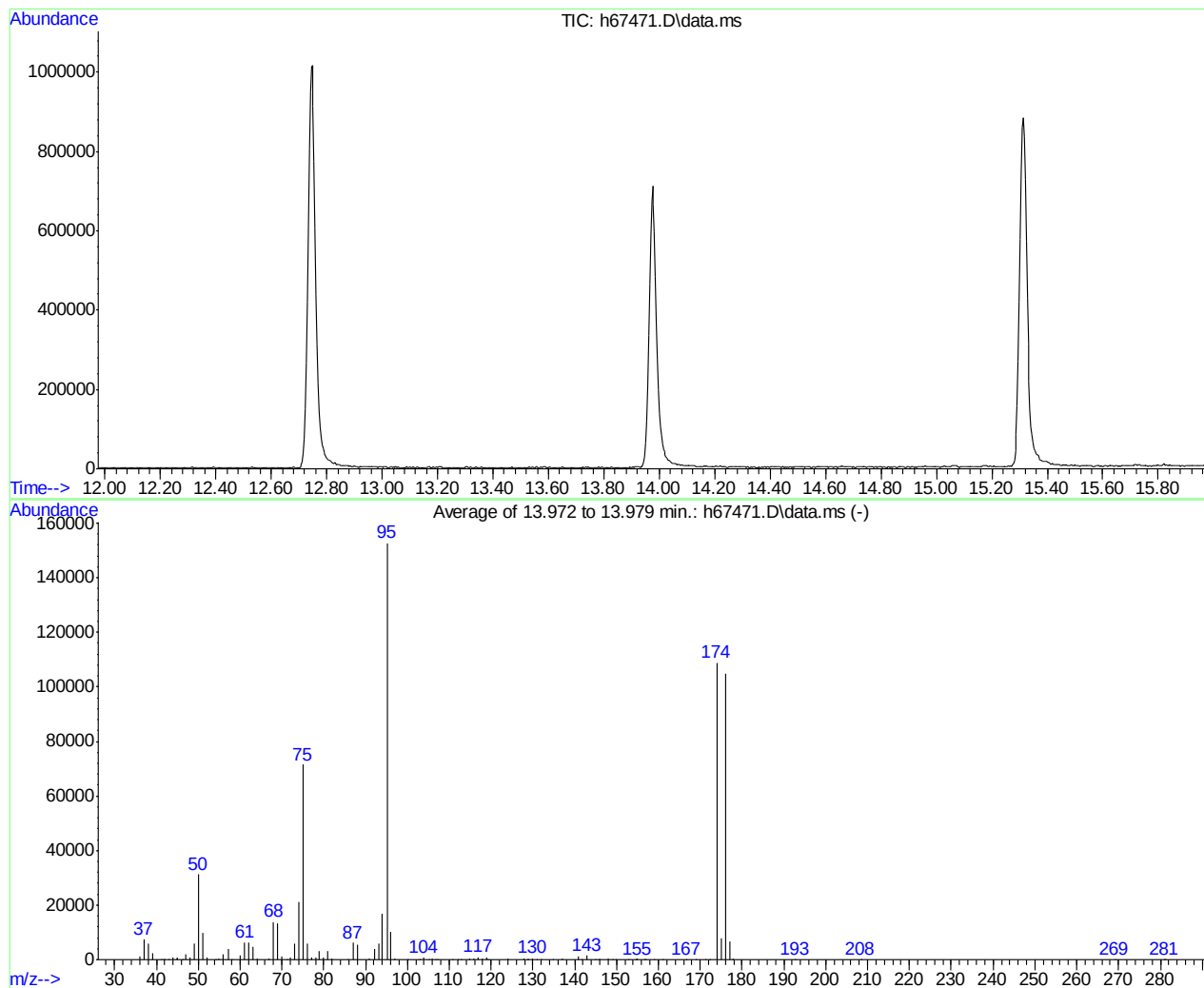
7.4.2



SW-846 Method 8260

Data File : C:\msdchem\1\DATA\140716\h67471.D Vial: 1
Acq On : 16 Jul 2014 12:31 pm Operator: jaclynb
Sample : bfb Inst : MSH
Misc : ms32261,msh2244,,,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\H140716W.M (RTE Integrator)
Title : SW-846 Method 8260



Spectrum Information: Average of 13.972 to 13.979 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.4	31178	PASS
75	95	30	60	46.8	71541	PASS
95	95	100	100	100.0	152746	PASS
96	95	5	9	6.6	10097	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	150	71.2	108816	PASS
175	174	5	9	7.1	7683	PASS
176	174	95	101	96.2	104725	PASS
177	176	5	9	6.2	6516	PASS

h67471.D H140716W.M Thu Jul 17 17:29:18 2014

Average of 13.972 to 13.979 min.: h67471.D\data.ms

bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	1243	46.20	59	58.00	160	72.00	604
37.05	7400	47.05	2022	60.05	1502	73.00	5787
38.10	5967	48.10	879	61.05	6297	74.05	21322
39.05	2236	49.05	5937	62.05	6436	75.05	71541
41.15	154	50.05	31178	63.05	4589	76.05	6032
41.60	83	51.10	9680	64.05	503	77.00	796
42.00	119	52.05	617	66.90	372	78.05	677
42.80	54	54.10	144	68.00	13902	78.95	3096
44.05	627	54.95	519	69.05	13496	79.95	767
44.90	403	56.05	2079	70.05	1071	80.95	3117
45.05	983	57.10	4057	71.20	65	81.85	564

Average of 13.972 to 13.979 min.: h67471.D\data.ms

bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
85.90	98	102.85	158	116.95	914	134.75	121
87.00	6211	104.00	607	117.85	483	136.95	291
88.00	5550	105.10	194	118.85	652	140.90	1162
90.95	260	105.95	429	119.10	106	141.60	52
92.05	4050	106.70	68	124.00	241	142.95	1393
93.05	5949	107.10	124	127.95	473	144.90	65
94.05	16673	110.70	50	128.70	122	145.60	50
95.10	152746	112.10	54	128.90	75	146.00	122
96.00	10097	112.90	92	129.95	544	147.95	370
97.00	228	114.95	226	131.00	58	149.00	57
100.10	51	115.95	529	131.90	61	149.80	73

Average of 13.972 to 13.979 min.: h67471.D\data.ms

bfb

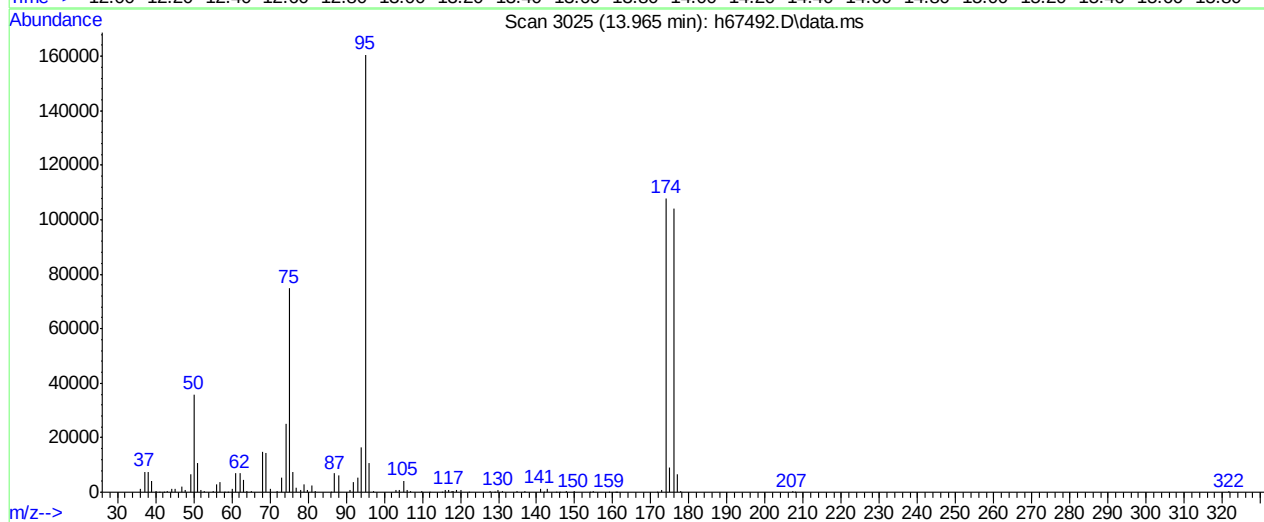
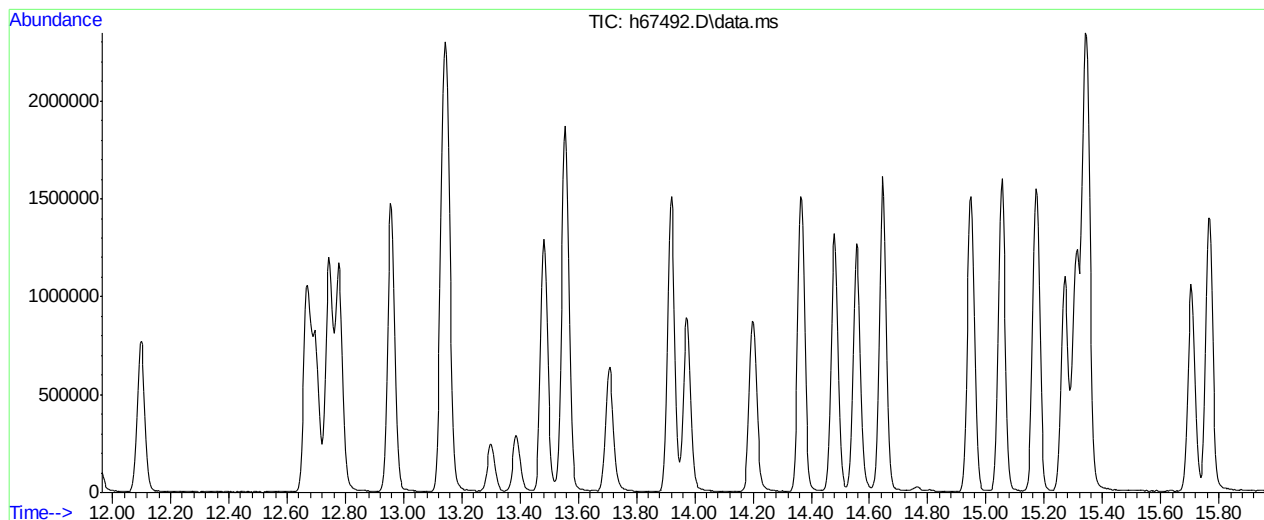
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
152.90	75	174.00	108816				
154.70	62	175.00	7683				
155.00	382	176.00	104725				
156.80	80	177.00	6516				
157.05	189	177.85	219				
159.00	101	192.70	77				
161.00	95	208.40	98				
166.70	88	269.10	142				
169.00	64	280.90	66				
171.10	81	281.10	81				
172.20	133						

SW-846 Method 8260

Data File : C:\msdchem\1\DATA\140717\h67492.D Vial: 4
 Acq On : 17 Jul 2014 1:41 pm Operator: amym
 Sample : bfb Inst : MSH
 Misc : ms32261,msh2244,,,,5,1 Multiplr: 1.00
 MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\H140716W.M (RTE Integrator)
 Title : SW-846 Method 8260



Spectrum Information: Scan 3025

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.4	35936	PASS
75	95	30	60	46.6	74920	PASS
95	95	100	100	100.0	160640	PASS
96	95	5	9	6.8	10874	PASS
173	174	0.00	2	0.7	773	PASS
174	95	50	150	67.2	107944	PASS
175	174	5	9	8.5	9154	PASS
176	174	95	101	96.4	104024	PASS
177	176	5	9	6.3	6508	PASS

h67492.D H140716W.M Thu Jul 17 17:32:42 2014

Scan 3025 (13.965 min): h67492.D\data.ms
bfb

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	1449	47.90	916	60.00	1395	74.10	25264
37.10	7608	49.10	6626	61.00	6923	75.00	74920
38.10	7380	50.00	35936	62.10	7041	76.10	7280
39.00	3938	51.10	10878	63.00	4594	77.00	1615
40.00	421	52.00	732	64.00	353	78.00	681
41.10	218	52.90	261	65.10	231	78.90	2908
42.30	180	55.00	443	68.00	14939	79.90	751
43.10	587	56.00	2743	69.00	14354	80.90	2649
44.10	1439	57.00	3890	70.10	1386	81.80	530
45.10	1254	58.20	163	72.00	521	86.00	215
47.00	1985	58.90	158	73.00	5548	87.00	6922

Scan 3025 (13.965 min): h67492.D\data.ms
bfb

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
88.00	6306	106.00	728	122.30	154	146.00	162
91.00	942	106.90	312	127.90	522	147.90	392
92.00	3585	109.70	286	129.10	157	149.80	394
93.00	5536	111.80	161	129.90	739	153.90	189
94.10	16338	115.20	164	130.90	246	154.90	293
95.00	160640	115.90	683	134.80	313	159.10	183
96.00	10874	117.00	953	136.80	287	160.60	153
97.10	299	117.90	270	141.00	1253	161.10	159
103.10	652	118.10	263	142.00	211	171.50	159
104.00	738	119.00	695	142.90	1114	172.90	773
105.10	4177	120.10	842	145.10	153	174.00	107944

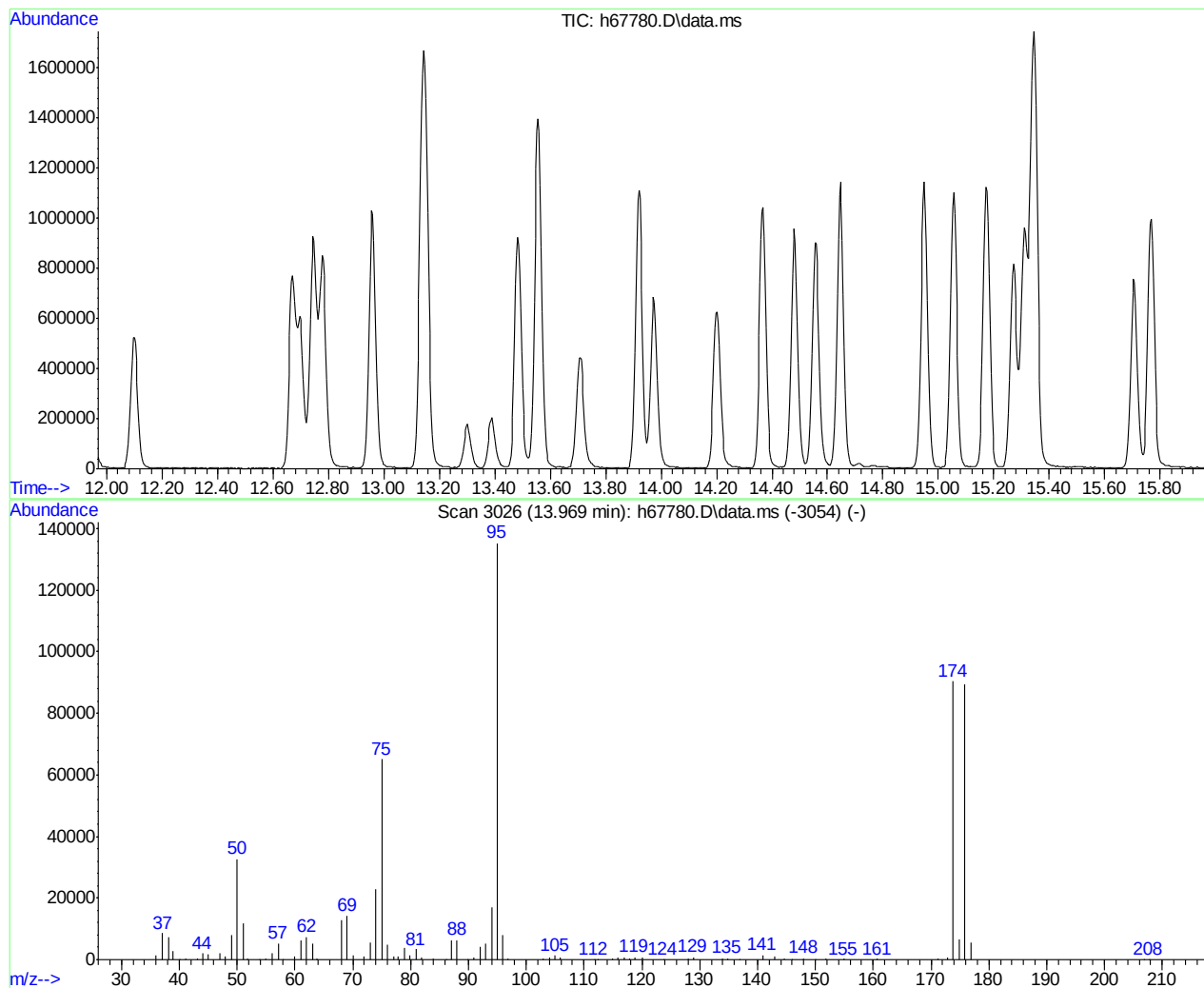
Scan 3025 (13.965 min): h67492.D\data.ms
bfb

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
175.00	9154						
176.00	104024						
177.00	6508						
177.90	320						
207.10	263						
207.90	152						
321.70	374						

SW-846 Method 8260

Data File : C:\msdchem\1\DATA\140728\h67780.D Vial: 2
Acq On : 28 Jul 2014 9:00 am Operator: amym
Sample : bfb Inst : MSH
Misc : ms32366,msh2253,,,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\H140716W.M (RTE Integrator)
Title : SW-846 Method 8260



Spectrum Information: Scan 3026

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.1	32616	PASS
75	95	30	60	48.1	65048	PASS
95	95	100	100	100.0	135298	PASS
96	95	5	9	6.0	8094	PASS
173	174	0.00	2	0.8	683	PASS
174	95	50	150	66.8	90410	PASS
175	174	5	9	7.2	6469	PASS
176	174	95	101	99.0	89528	PASS
177	176	5	9	6.1	5432	PASS

Scan 3026 (13.969 min): h67780.D\data.ms (-3054)

bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	1253	49.00	7912	62.00	7379	77.10	1186
37.10	8539	50.00	32616	63.00	5304	77.80	985
38.10	7344	51.00	11626	63.90	392	79.00	3828
39.00	2740	51.90	376	68.00	12884	79.90	1522
40.00	80	53.90	154	69.00	14236	80.90	3408
41.10	238	54.90	265	70.00	1277	81.90	768
43.10	438	56.00	2121	71.90	884	84.00	218
44.00	1926	57.10	5319	73.00	5714	86.20	162
45.00	1812	58.00	190	74.00	22992	87.00	6264
47.00	2144	60.00	1212	75.00	65048	88.00	6284
47.90	1162	61.00	6168	76.00	4833	89.80	171

Scan 3026 (13.969 min): h67780.D\data.ms (-3054)

bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
91.00	580	111.70	186	134.00	207	160.70	283
92.00	4183	112.40	151	134.80	420	171.20	212
93.00	5332	115.00	335	136.90	184	172.90	683
94.00	16840	115.90	662	140.90	1436	173.85	90410
95.00	135298	117.00	609	142.90	966	174.90	6469
96.00	8094	117.80	403	144.70	198	175.90	89528
96.80	406	118.80	834	146.00	186	177.00	5432
103.00	221	120.10	705	148.00	380	206.90	152
104.10	584	123.70	157	149.90	176	207.70	176
105.00	1315	128.00	200	151.80	296		
105.90	724	128.90	755	154.90	221		

7.5.3

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\140716\
Data File : h67472.D
Acq On : 16 Jul 2014 12:59 pm
Operator : jaclynb
Sample : ic2244-0.25
Misc : ms32261,msh2244,,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 17 10:19:54 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 10:16:09 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.211	65	125865	500.00	ug/L	0.02
4) pentafluorobenzene	8.625	168	405172	50.00	ug/L	0.00
42) 1,4-difluorobenzene	9.493	114	685188	50.00	ug/L	0.00
66) chlorobenzene-d5	12.747	82	362440	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.312	152	238459	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	0.000	113	0	0.00	ug/L	
Spiked Amount	50.000	Range	70 - 130	Recovery	=	0.00%#
60) toluene-d8 (s)	0.000	98	0	0.00	ug/L	
Spiked Amount	50.000	Range	70 - 130	Recovery	=	0.00%#
82) bromofluorobenzene (s)	0.000	95	0	0.00	ug/L	
Spiked Amount	50.000	Range	70 - 130	Recovery	=	0.00%#
Target Compounds						
41) 1,1,1-trichloroethane	8.883	97	2008	0.31	ug/L	Qvalue # 56
51) trichloroethene	9.910	95	1417m	0.35	ug/L	
59) cis-1,3-dichloropropene	10.598	75	1509	0.23	ug/L	97
67) tetrachloroethene	12.115	166	1134m	0.38	ug/L	

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

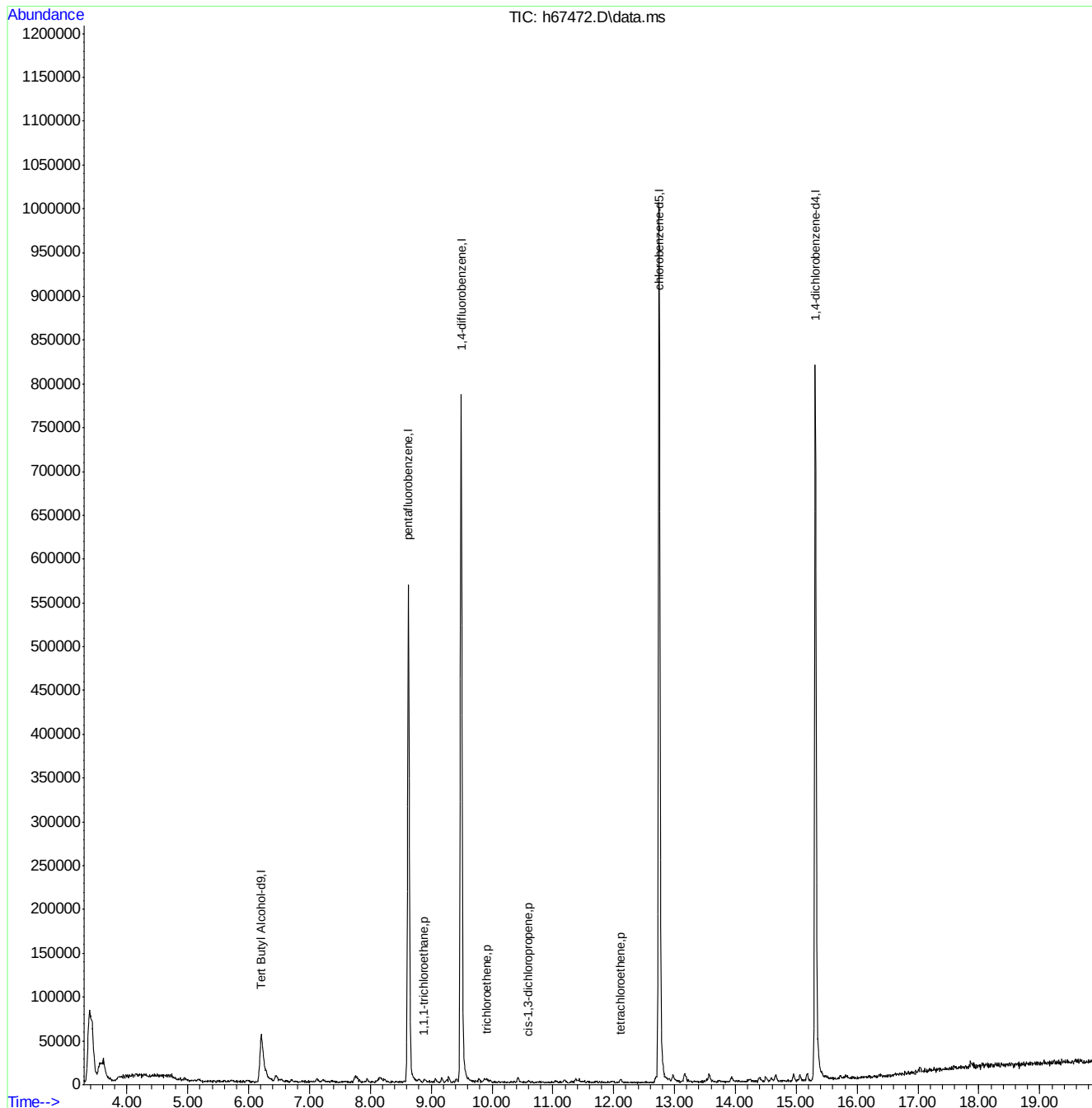
7.6.1

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\140716\
Data File : h67472.D
Acq On : 16 Jul 2014 12:59 pm
Operator : jaclynb
Sample : ic2244-0.25
Misc : ms32261,msh2244,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

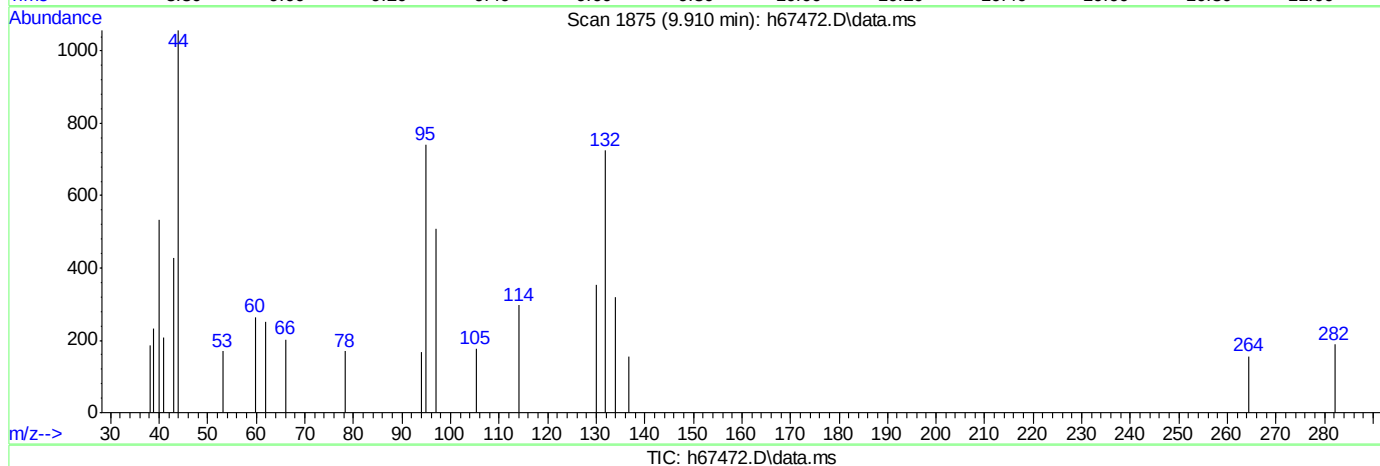
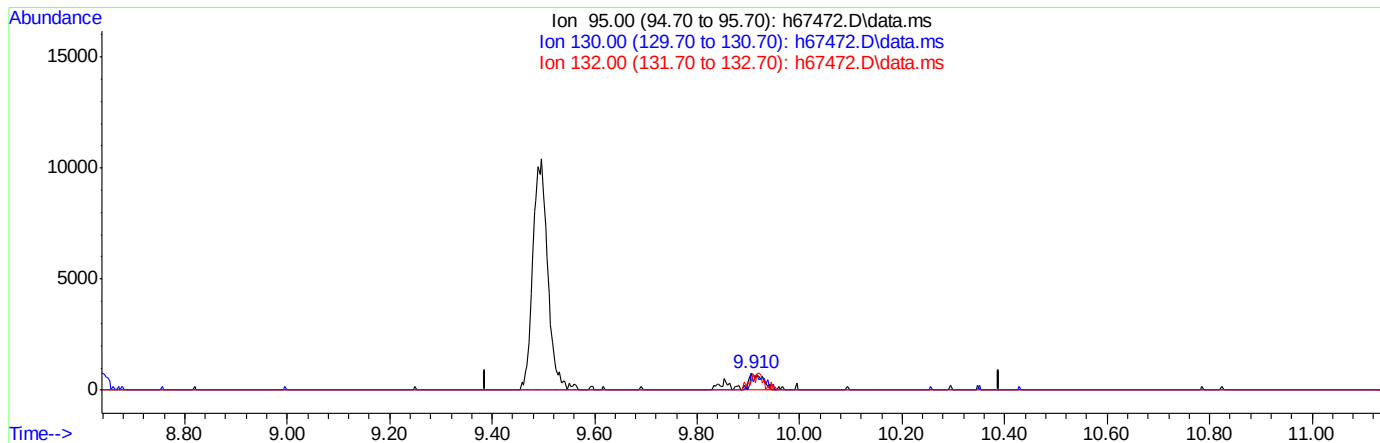
Quant Time: Jul 17 10:19:54 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 10:16:09 2014
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\140716\
Data File : h67472.D
Acq On : 16 Jul 2014 12:59 pm
Operator : jaclynb
Sample : ic2244-0.25
Misc : ms32261,msh2244,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 17 10:00:41 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 09:59:56 2014
Response via : Initial Calibration



(51) trichloroethene (p)

9.910min (+0.001) 0.35ug/L m

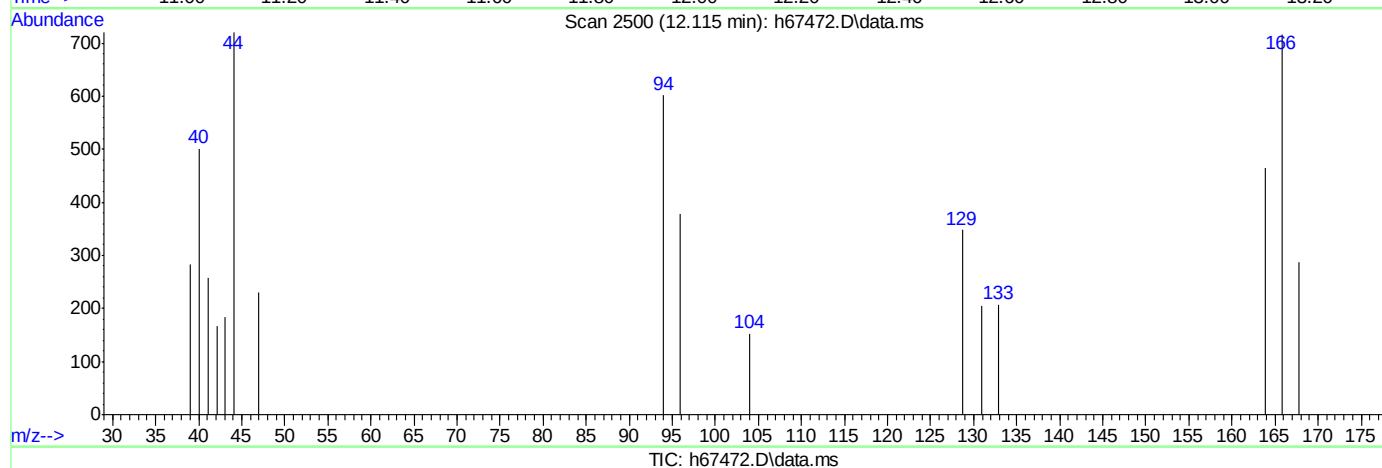
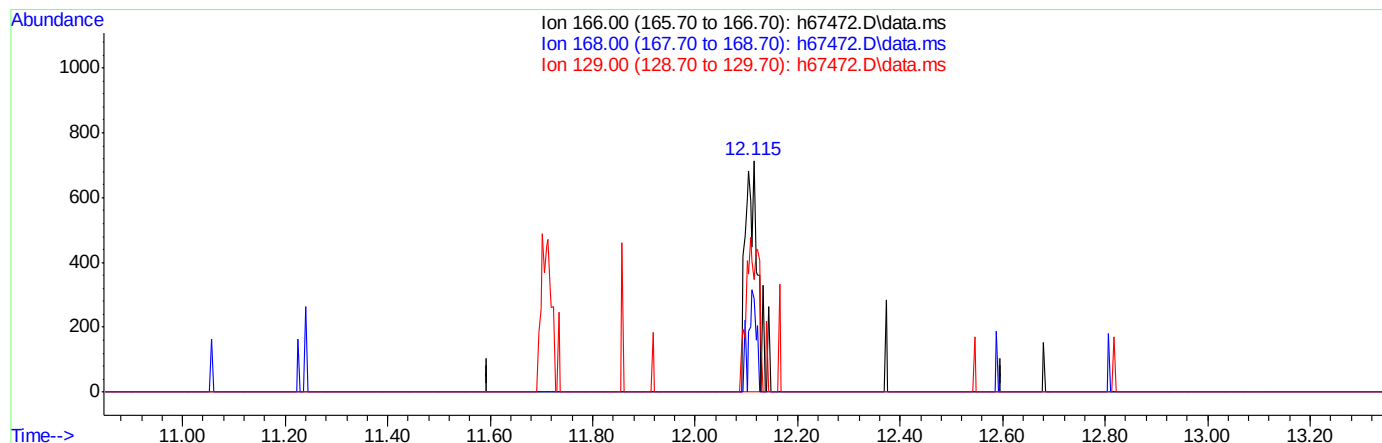
response 1417

Ion	Exp%	Act%
95.00	100	100
130.00	113.00	47.84#
132.00	112.20	97.97
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\140716\
Data File : h67472.D
Acq On : 16 Jul 2014 12:59 pm
Operator : jaclynb
Sample : ic2244-0.25
Misc : ms32261,msh2244,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 17 10:00:41 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 09:59:56 2014
Response via : Initial Calibration



(67) tetrachloroethene (p)

12.115min (+0.019) 0.31ug/L m

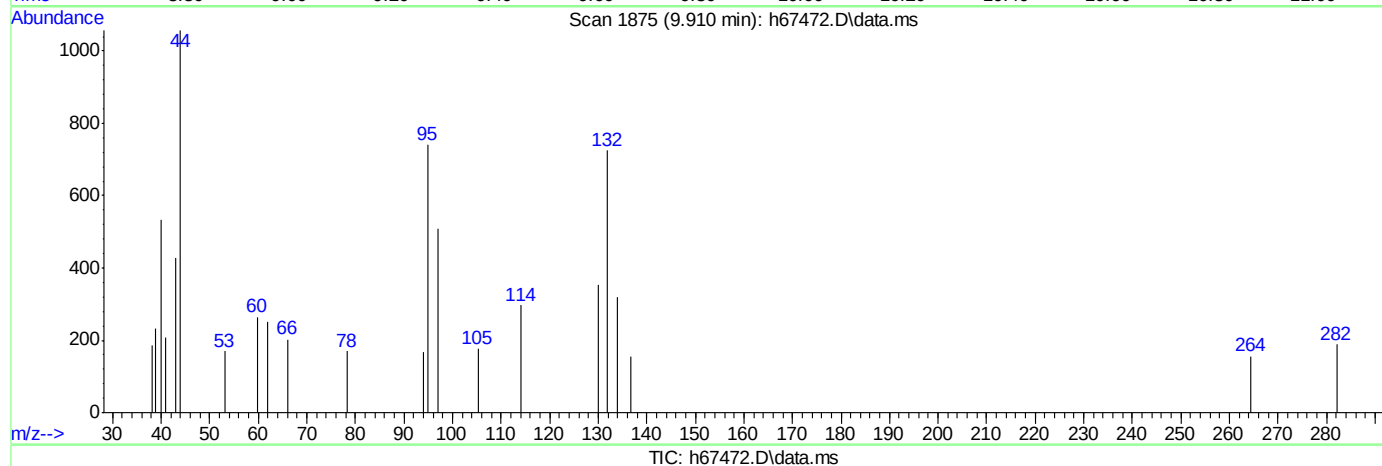
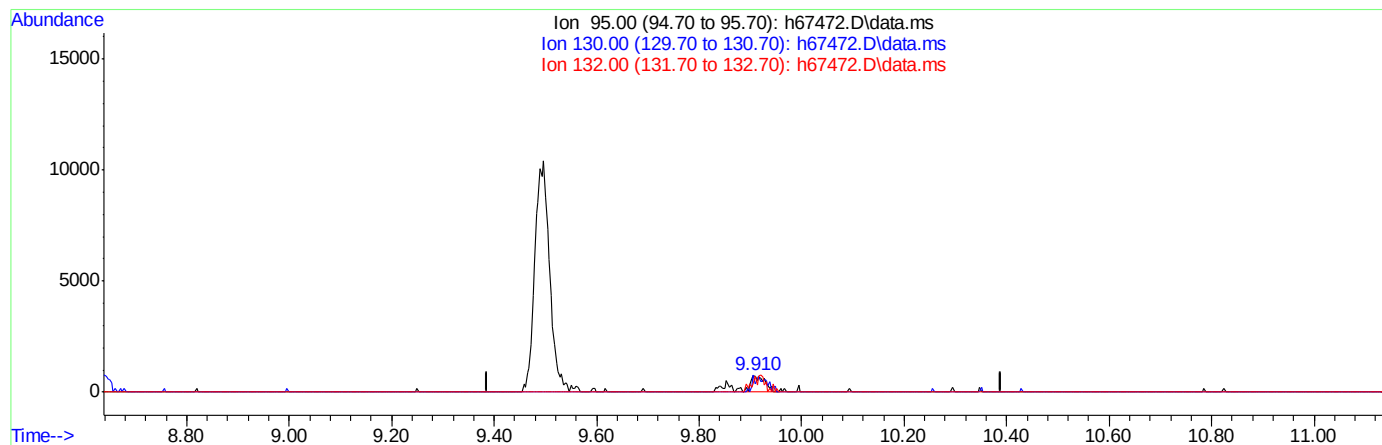
response 1134

Ion	Exp%	Act%
166.00	100	100
168.00	47.70	40.28
129.00	78.90	48.67#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\140716\
Data File : h67472.D
Acq On : 16 Jul 2014 12:59 pm
Operator : jaclynb
Sample : ic2244-0.25
Misc : ms32261,msh2244,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 17 10:16:29 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 10:16:09 2014
Response via : Initial Calibration



(51) trichloroethene (p)

9.910min (+0.001) 0.35ug/L m

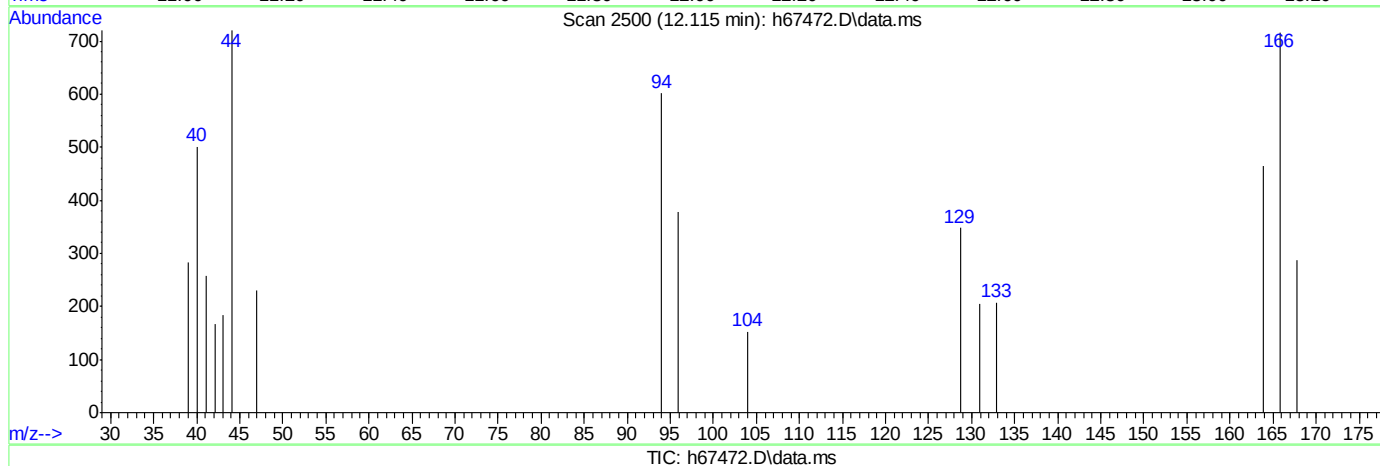
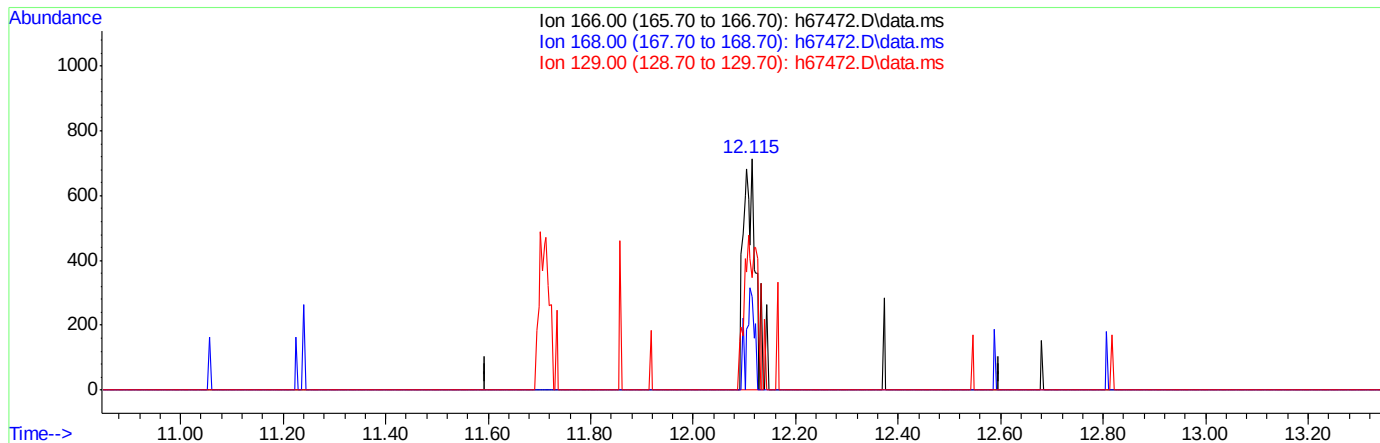
response 1417

Ion	Exp%	Act%
95.00	100	100
130.00	113.00	47.84#
132.00	112.20	97.97
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\140716\
Data File : h67472.D
Acq On : 16 Jul 2014 12:59 pm
Operator : jaclynb
Sample : ic2244-0.25
Misc : ms32261,msh2244,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 17 10:16:29 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 10:16:09 2014
Response via : Initial Calibration



(67) tetrachloroethene (p)

12.115min (+0.019) 0.38ug/L m

response 1134

Ion	Exp%	Act%
166.00	100	100
168.00	47.70	40.28
129.00	78.90	48.67#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\140716\
 Data File : h67473.D
 Acq On : 16 Jul 2014 1:27 pm
 Operator : jaclynb
 Sample : ic2244-0.5
 Misc : ms32261,msh2244,,,,5,1
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 17 10:22:24 2014
 Quant Method : C:\msdchem\1\METHODS\H140716W.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu Jul 17 10:16:09 2014
 Response via : Initial Calibration

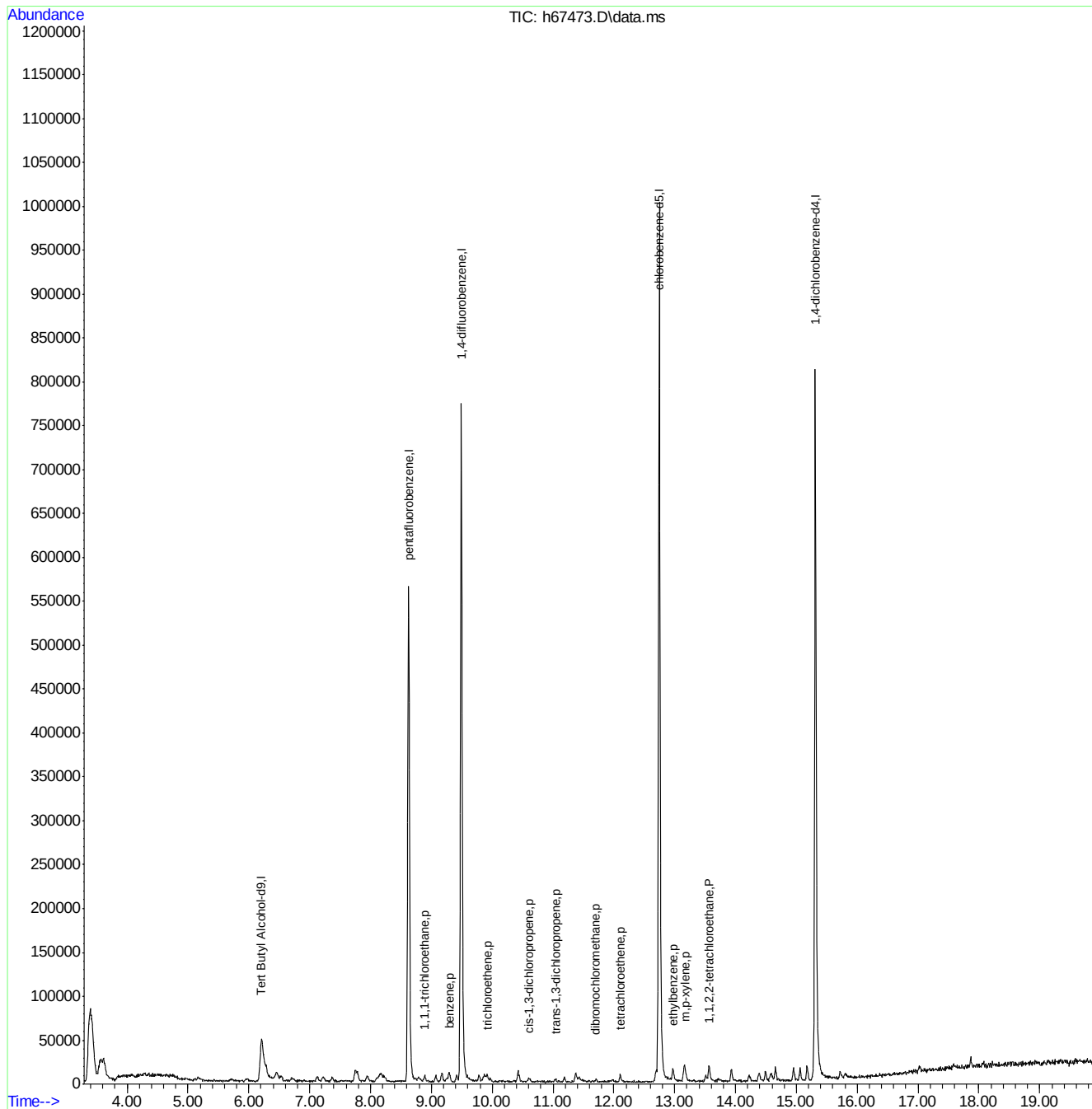
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.204	65	122788	500.00	ug/L	0.00
4) pentafluorobenzene	8.629	168	400299	50.00	ug/L	0.00
42) 1,4-difluorobenzene	9.493	114	677850	50.00	ug/L	0.00
66) chlorobenzene-d5	12.747	82	354747	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.312	152	234340	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	0.000	113	0	0.00	ug/L	
Spiked Amount 50.000	Range 70 - 130		Recovery =	0.00%		
60) toluene-d8 (s)	0.000	98	0	0.00	ug/L	
Spiked Amount 50.000	Range 70 - 130		Recovery =	0.00%		
82) bromofluorobenzene (s)	0.000	95	0	0.00	ug/L	
Spiked Amount 50.000	Range 70 - 130		Recovery =	0.00%		
Target Compounds						
41) 1,1,1-trichloroethane	8.890	97	4216	0.65	ug/L	Qvalue 89
46) benzene	9.292	78	8922m	0.64	ug/L	
51) trichloroethene	9.920	95	2923	0.73	ug/L #	63
59) cis-1,3-dichloropropene	10.601	75	3415	0.52	ug/L	91
63) trans-1,3-dichloropropene	11.039	75	2685	0.44	ug/L	99
67) tetrachloroethene	12.115	166	2158	0.73	ug/L	77
69) dibromochloromethane	11.706	129	1685	0.49	ug/L	66
74) ethylbenzene	12.969	91	12509	0.86	ug/L	91
75) m,p-xylene	13.167	106	8620m	1.79	ug/L	
84) 1,1,2,2-tetrachloroethane	13.572	83	1687m	0.60	ug/L	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\140716\
Data File : h67473.D
Acq On : 16 Jul 2014 1:27 pm
Operator : jaclynb
Sample : ic2244-0.5
Misc : ms32261,msh2244,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

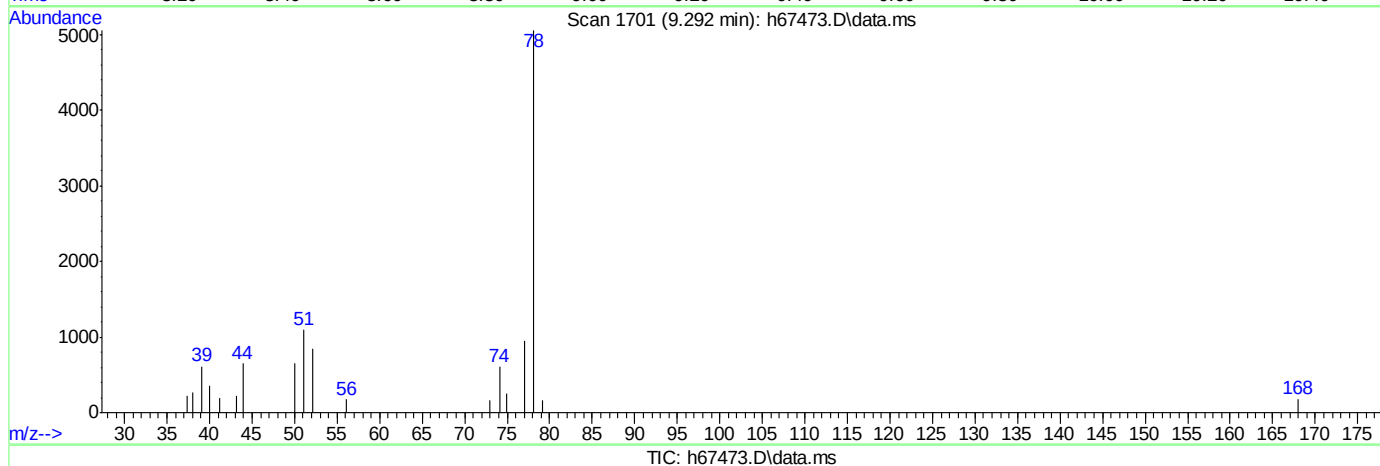
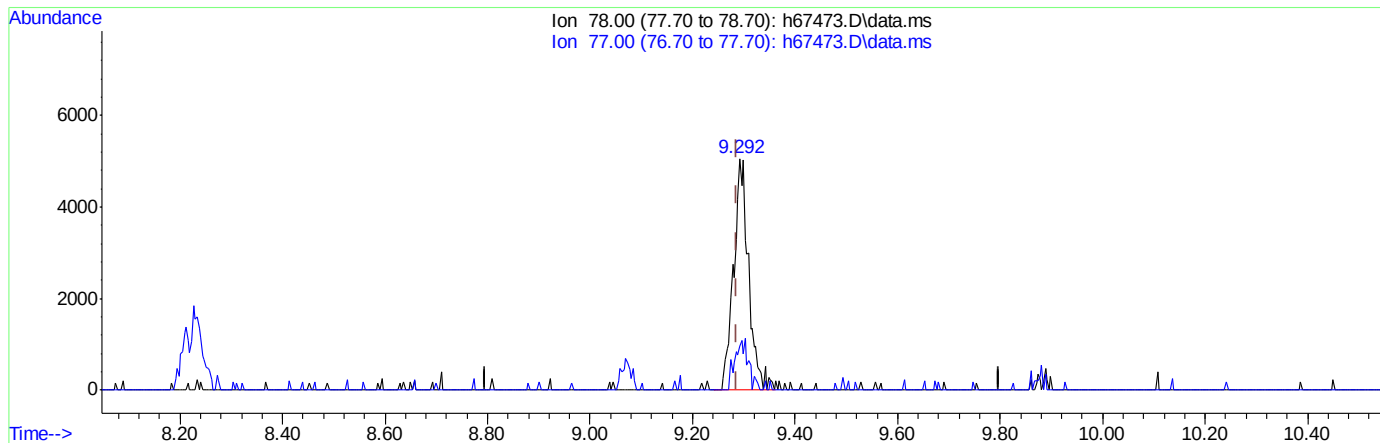
Quant Time: Jul 17 10:22:24 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 10:16:09 2014
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\140716\
Data File : h67473.D
Acq On : 16 Jul 2014 1:27 pm
Operator : jaclynb
Sample : ic2244-0.5
Misc : ms32261,msh2244,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 17 10:00:43 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 09:59:56 2014
Response via : Initial Calibration



(46) benzene (p)

9.292min (+0.004) 0.74ug/L

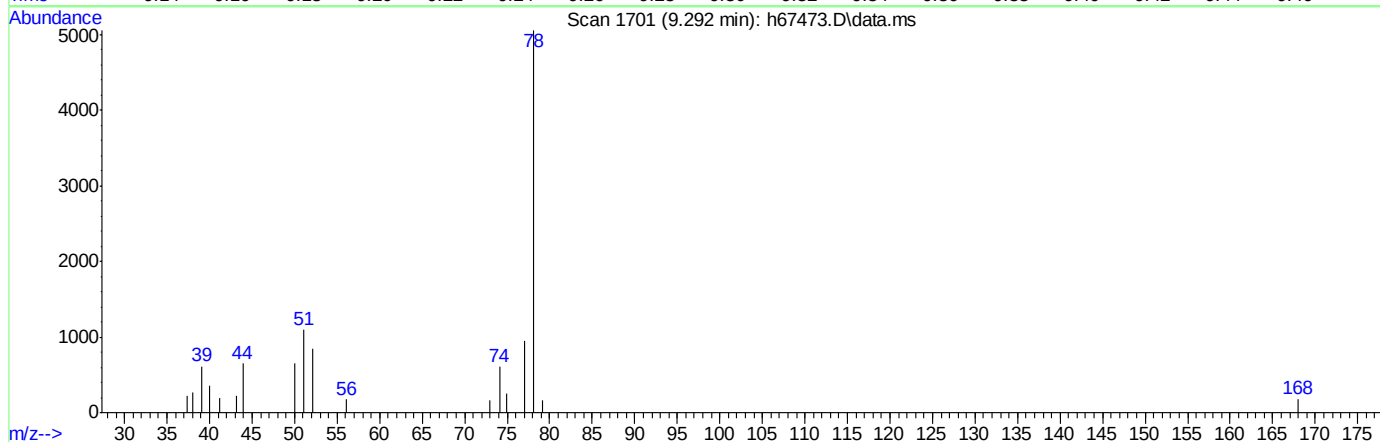
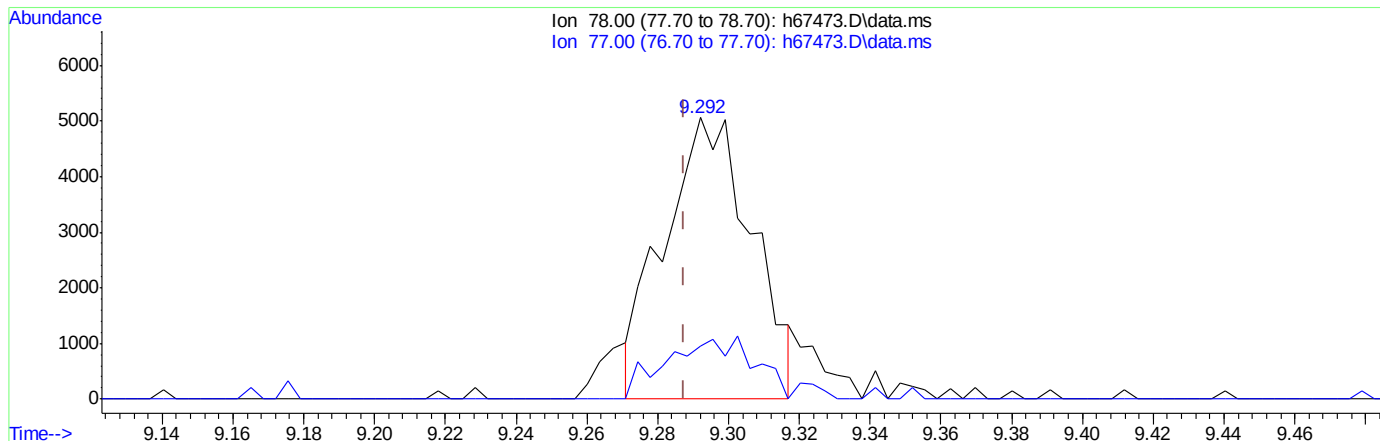
response 10244

Ion	Exp%	Act%
78.00	100	100
77.00	23.50	18.92
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\140716\
Data File : h67473.D
Acq On : 16 Jul 2014 1:27 pm
Operator : jaclynb
Sample : ic2244-0.5
Misc : ms32261,msh2244,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 17 10:00:43 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 09:59:56 2014
Response via : Initial Calibration



TIC: h67473.D\data.ms

(46) benzene (p)

9.292min (+0.004) 0.63ug/L m

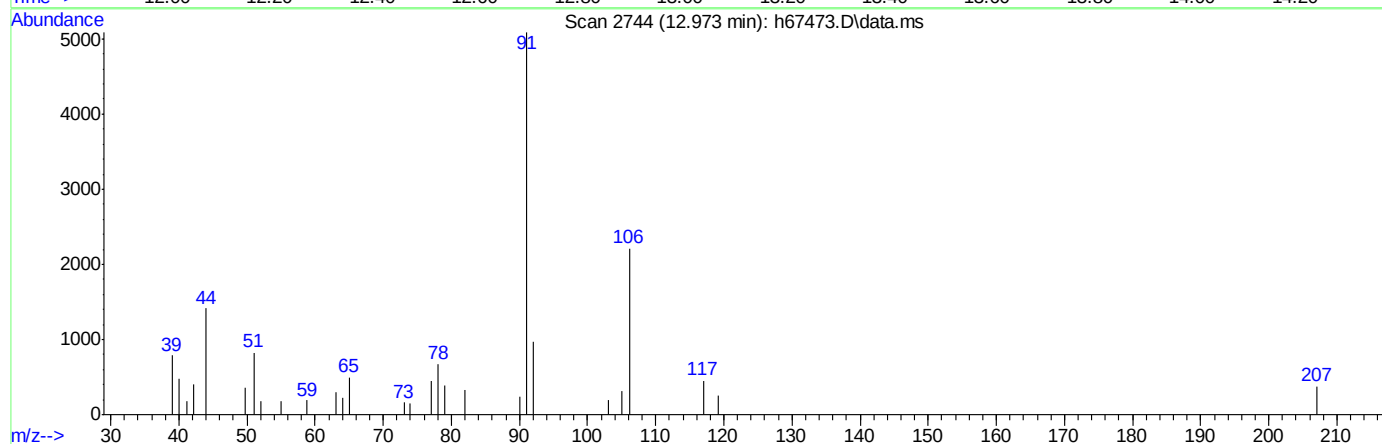
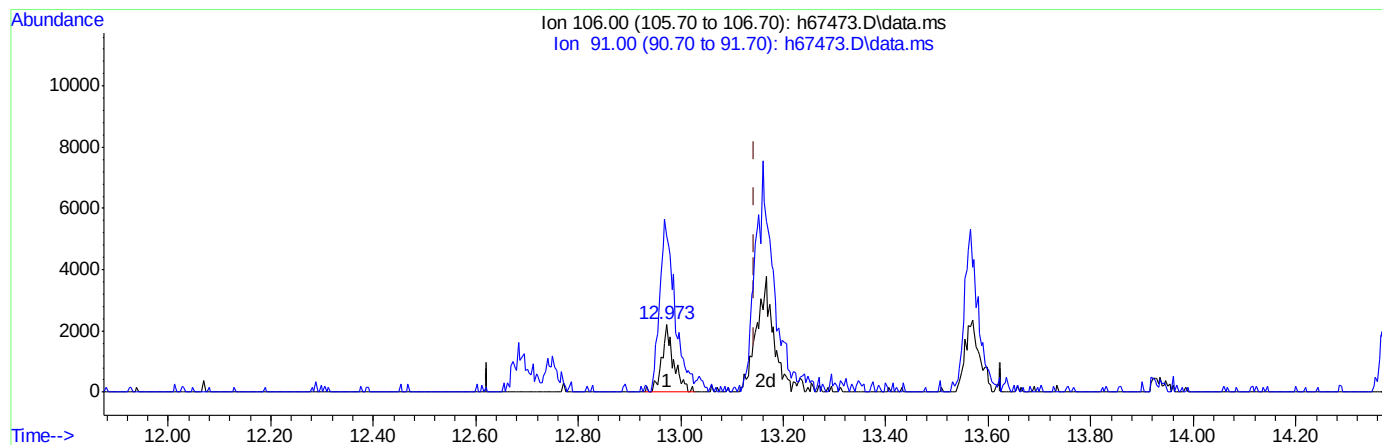
response 8708

Ion	Exp%	Act%
78.00	100	100
77.00	23.50	18.92
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\140716\
Data File : h67473.D
Acq On : 16 Jul 2014 1:27 pm
Operator : jaclynb
Sample : ic2244-0.5
Misc : ms32261,msh2244,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 17 10:00:43 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 09:59:56 2014
Response via : Initial Calibration



(75) m,p-xylene (p)

12.973min (-0.172) 0.61ug/L

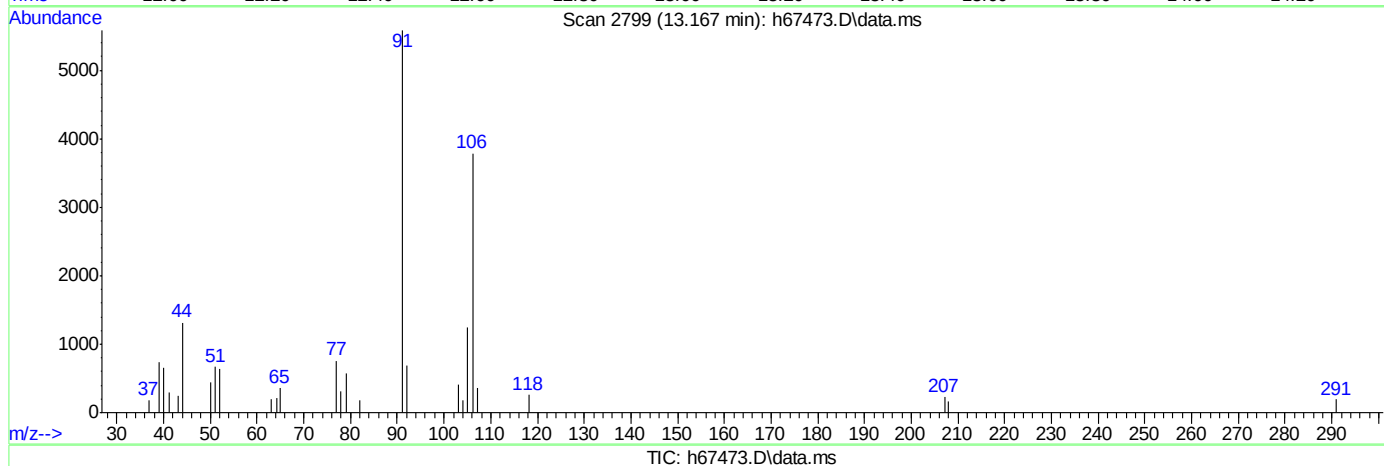
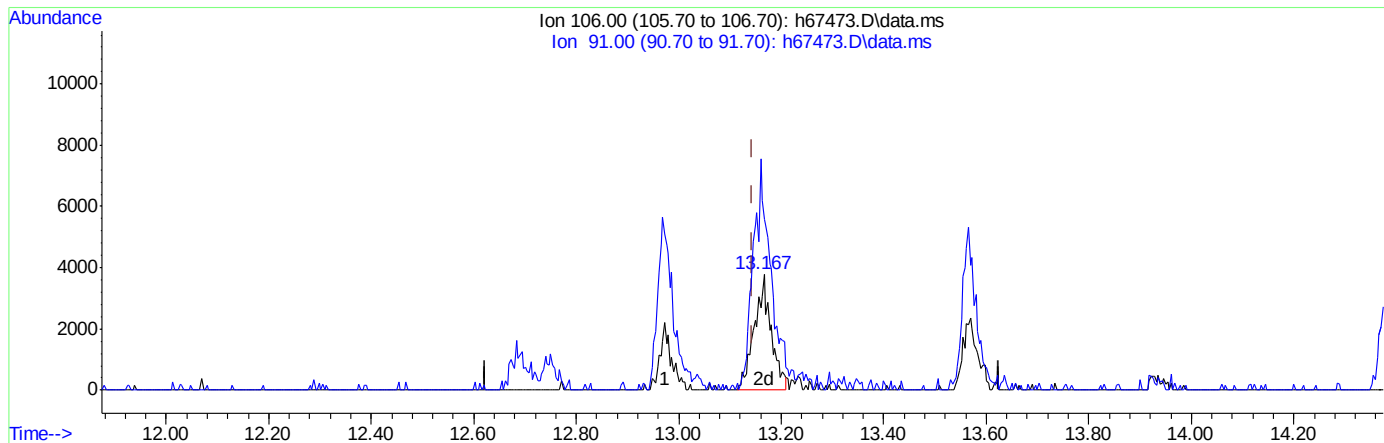
response 3530

Ion	Exp%	Act%
106.00	100	100
91.00	203.20	219.74
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\140716\
Data File : h67473.D
Acq On : 16 Jul 2014 1:27 pm
Operator : jaclynb
Sample : ic2244-0.5
Misc : ms32261,msh2244,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 17 10:00:43 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 09:59:56 2014
Response via : Initial Calibration



(75) m,p-xylene (p)

13.167min (+0.022) 1.48ug/L m

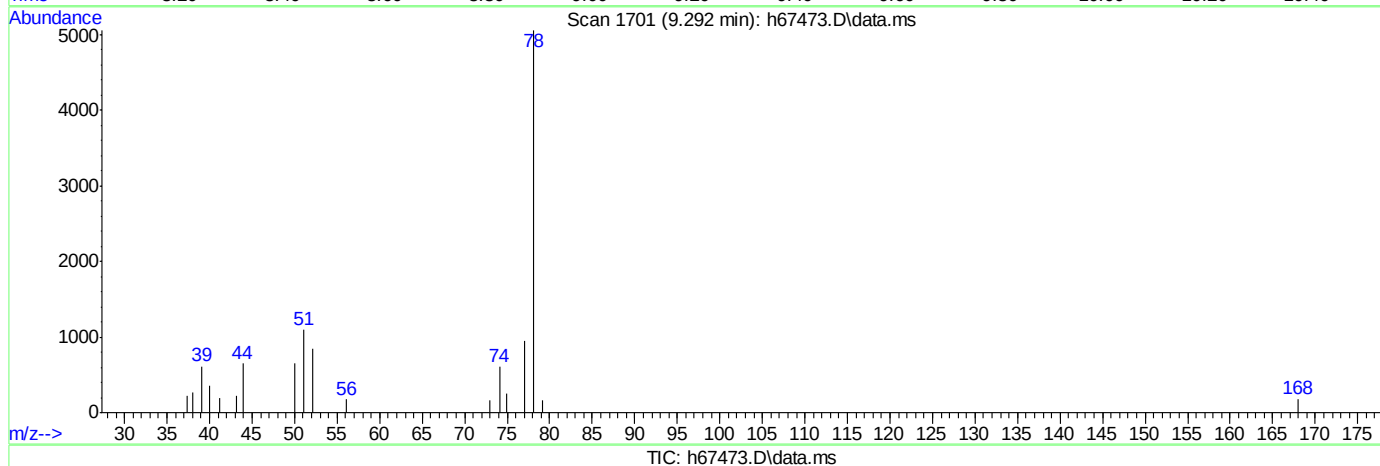
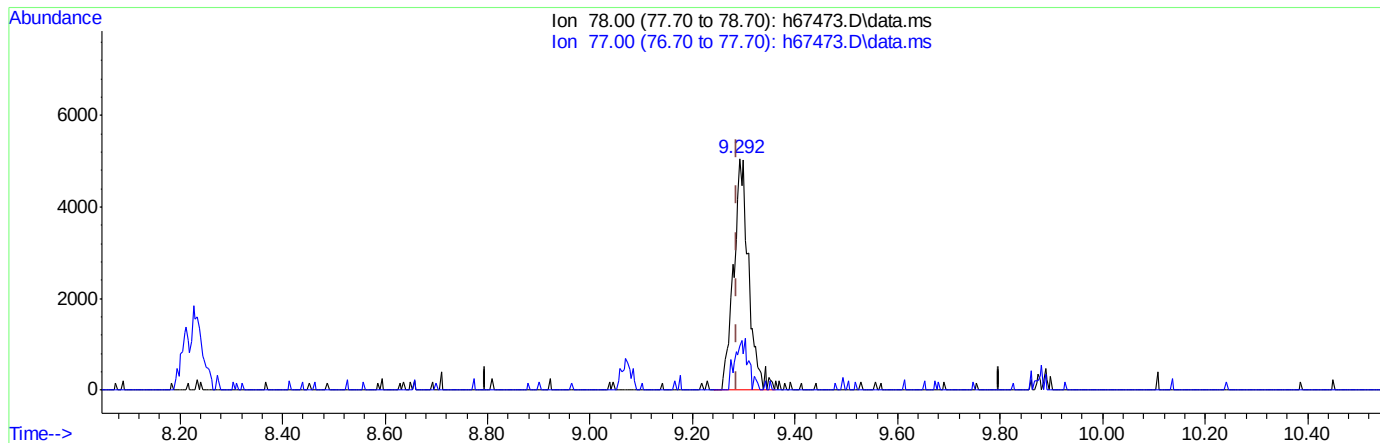
response 8541

Ion	Exp%	Act%
106.00	100	100
91.00	203.20	147.57#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\140716\
Data File : h67473.D
Acq On : 16 Jul 2014 1:27 pm
Operator : jaclynb
Sample : ic2244-0.5
Misc : ms32261,msh2244,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 17 10:16:32 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 10:16:09 2014
Response via : Initial Calibration



(46) benzene (p)

9.292min (+0.004) 0.74ug/L

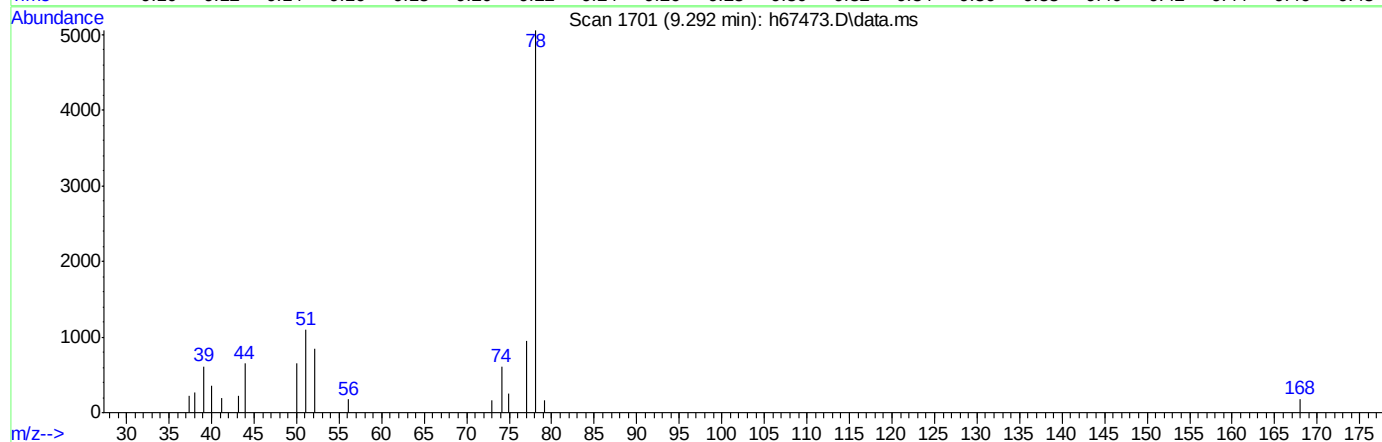
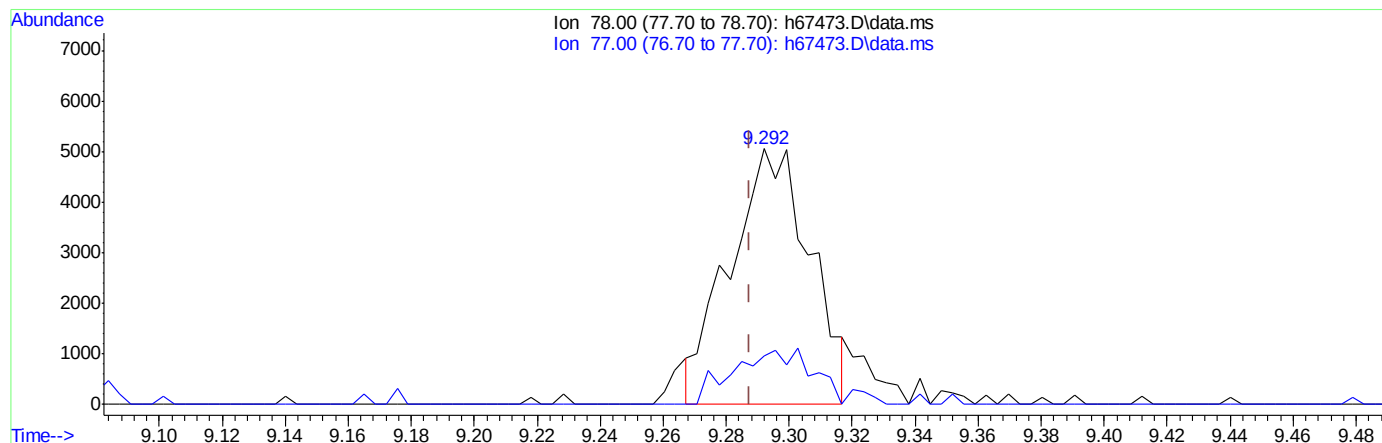
response 10244

Ion	Exp%	Act%
78.00	100	100
77.00	23.50	18.92
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\140716\
Data File : h67473.D
Acq On : 16 Jul 2014 1:27 pm
Operator : jaclynb
Sample : ic2244-0.5
Misc : ms32261,msh2244,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 17 10:16:32 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 10:16:09 2014
Response via : Initial Calibration



TIC: h67473.D\data.ms

(46) benzene (p)

9.292min (+0.004) 0.64ug/L m

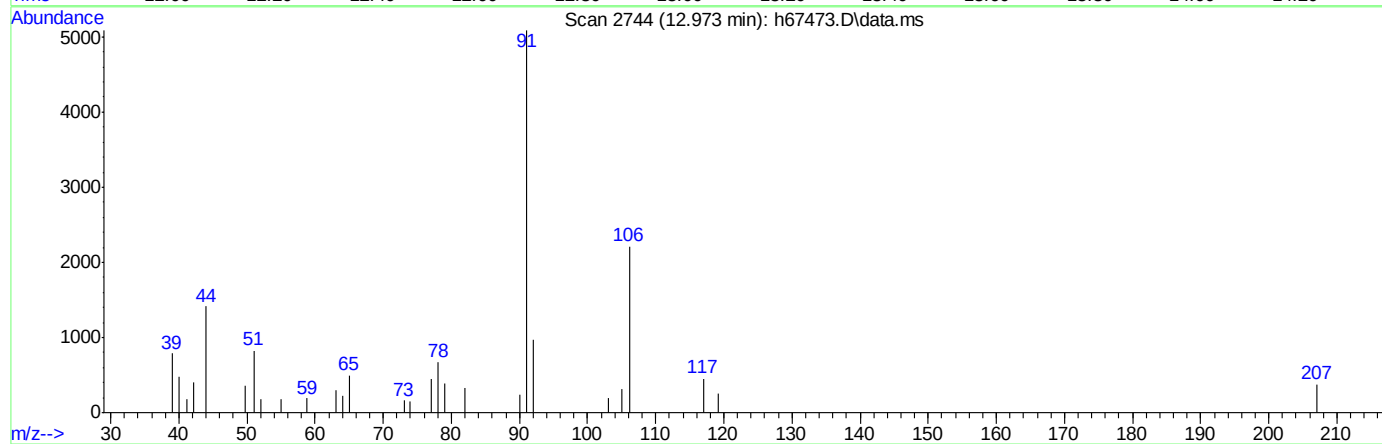
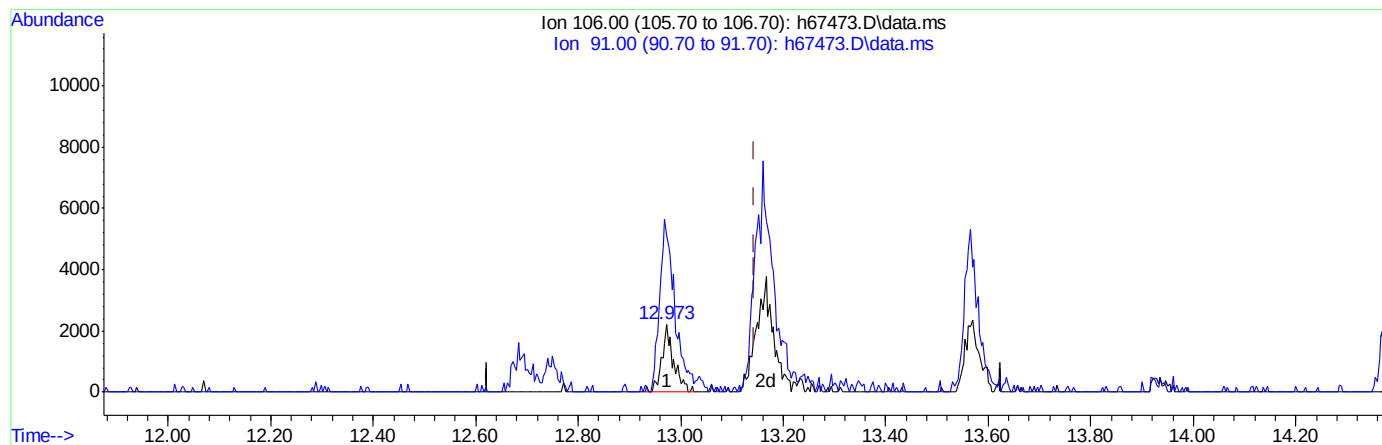
response 8922

Ion	Exp%	Act%
78.00	100	100
77.00	23.50	18.92
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\140716\
Data File : h67473.D
Acq On : 16 Jul 2014 1:27 pm
Operator : jaclynb
Sample : ic2244-0.5
Misc : ms32261,msh2244,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 17 10:16:32 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 10:16:09 2014
Response via : Initial Calibration



(75) m,p-xylene (p)

12.973min (-0.172) 0.73ug/L

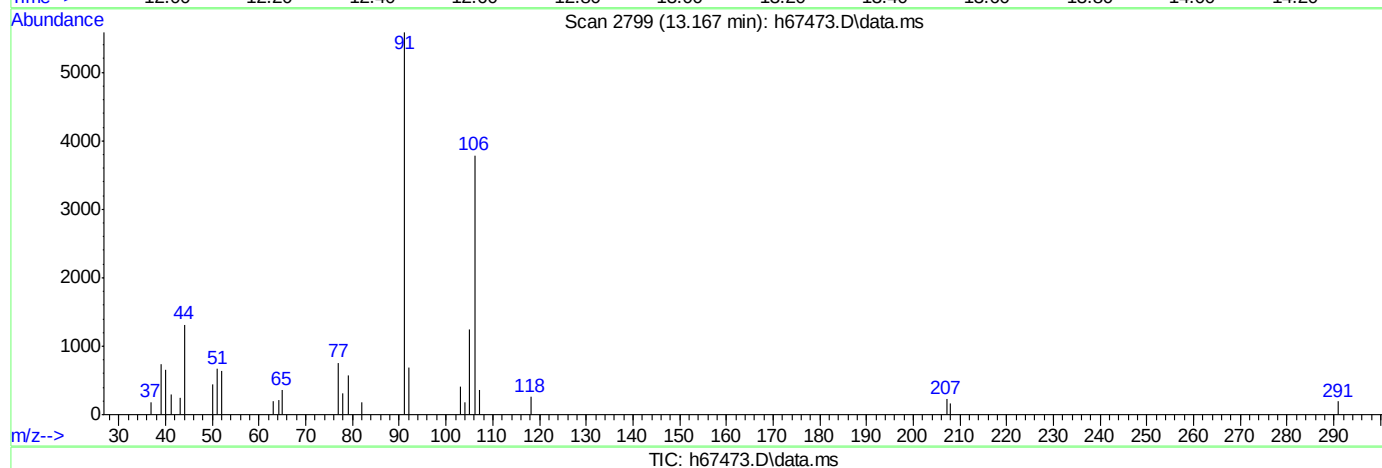
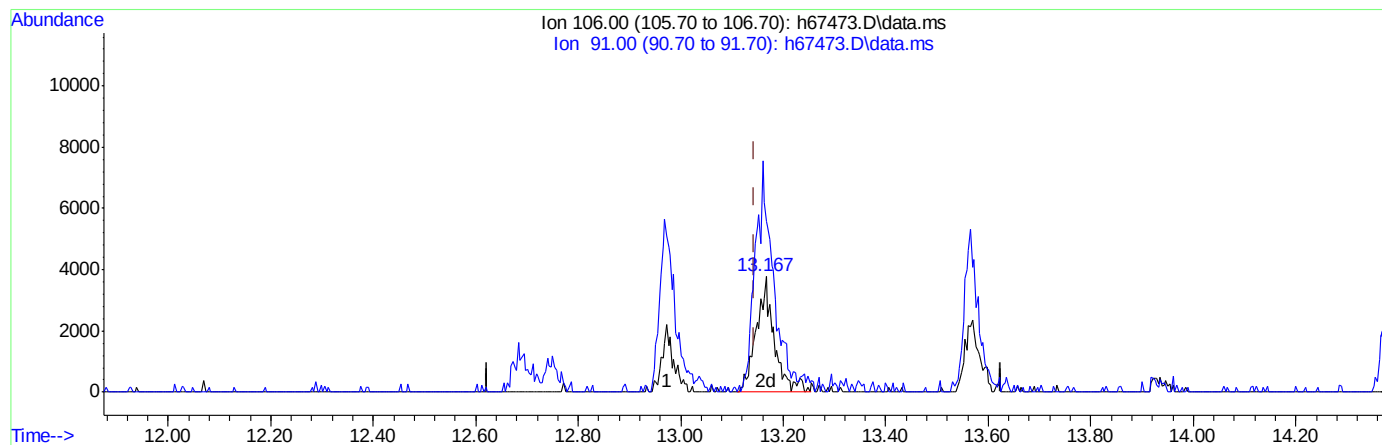
response 3530

Ion	Exp%	Act%
106.00	100	100
91.00	203.20	219.74
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\140716\
Data File : h67473.D
Acq On : 16 Jul 2014 1:27 pm
Operator : jaclynb
Sample : ic2244-0.5
Misc : ms32261,msh2244,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 17 10:16:32 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 10:16:09 2014
Response via : Initial Calibration



(75) m,p-xylene (p)

13.167min (+0.022) 1.88ug/L m

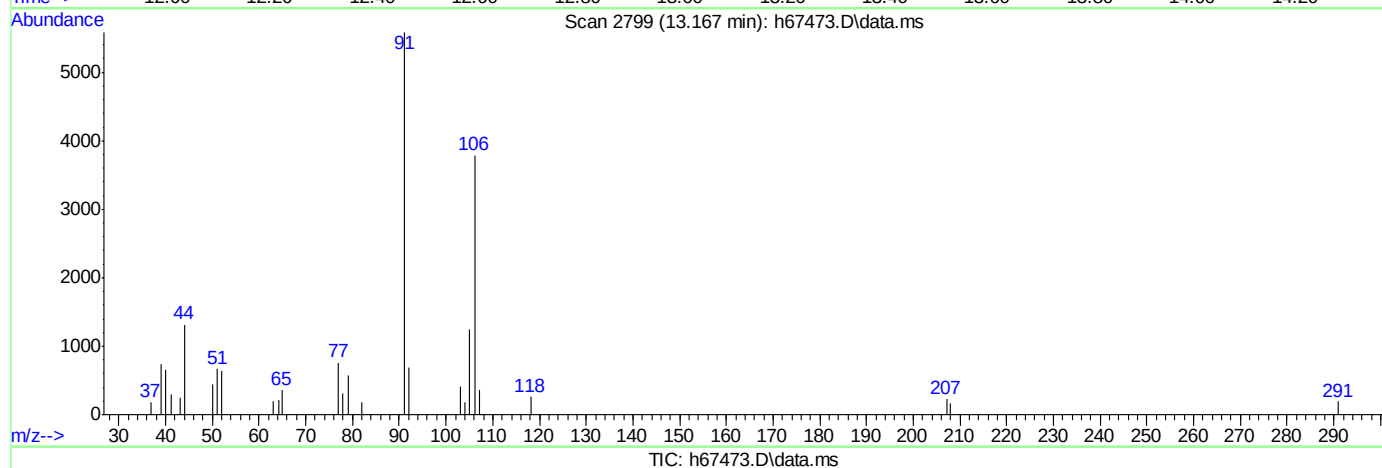
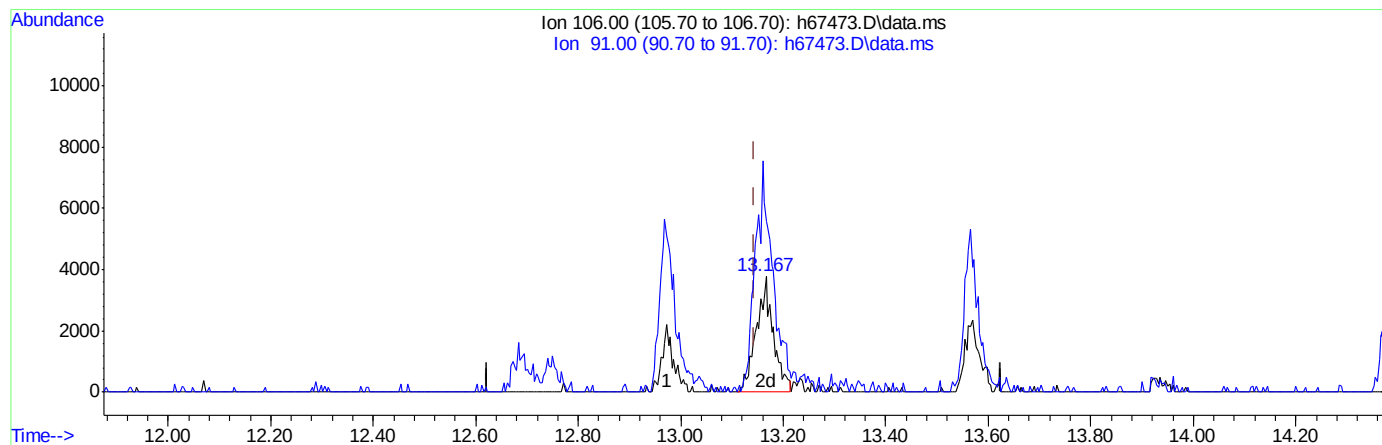
response 9086

Ion	Exp%	Act%
106.00	100	100
91.00	203.20	147.57#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\140716\
Data File : h67473.D
Acq On : 16 Jul 2014 1:27 pm
Operator : jaclynb
Sample : ic2244-0.5
Misc : ms32261,msh2244,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 17 10:16:32 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 10:16:09 2014
Response via : Initial Calibration



(75) m,p-xylene (p)

13.167min (+0.022) 1.79ug/L m

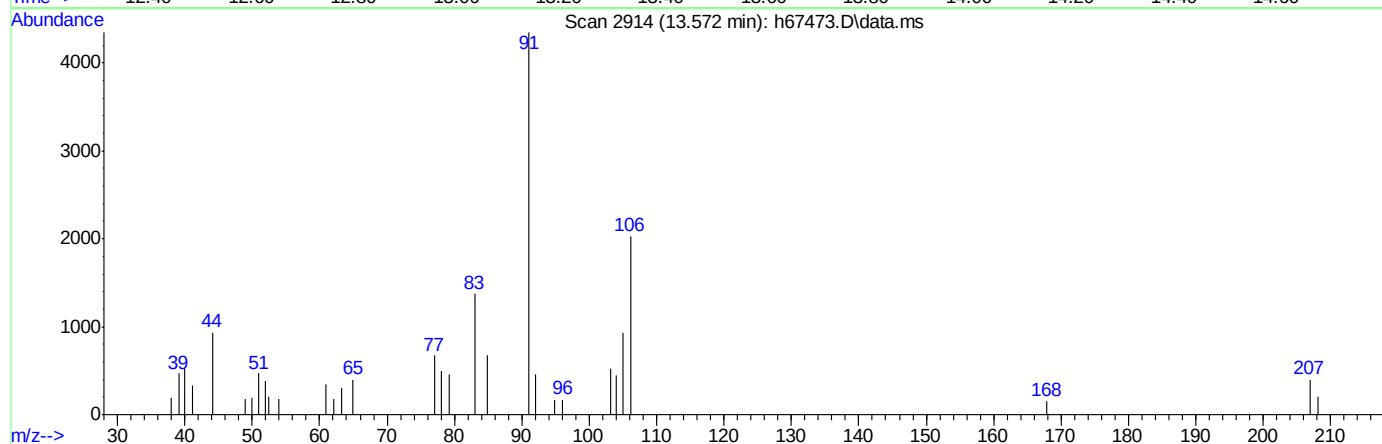
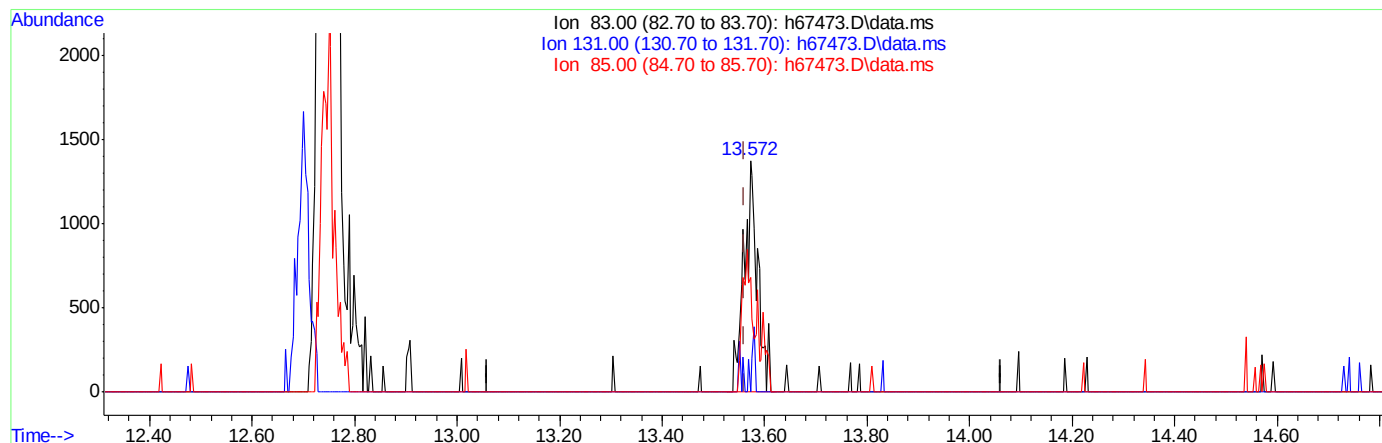
response 8620

Ion	Exp%	Act%
106.00	100	100
91.00	203.20	147.57#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\140716\
Data File : h67473.D
Acq On : 16 Jul 2014 1:27 pm
Operator : jaclynb
Sample : ic2244-0.5
Misc : ms32261,msh2244,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 17 10:16:32 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 10:16:09 2014
Response via : Initial Calibration



TIC: h67473.D\data.ms

(84) 1,1,2,2-tetrachloroethane (P)

13.572min (+0.012) 0.91ug/L

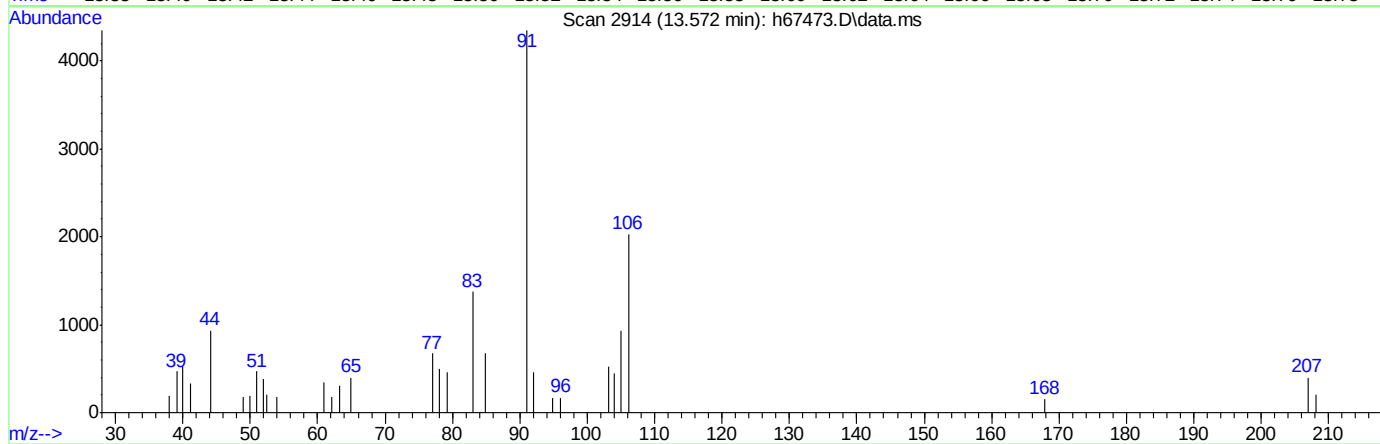
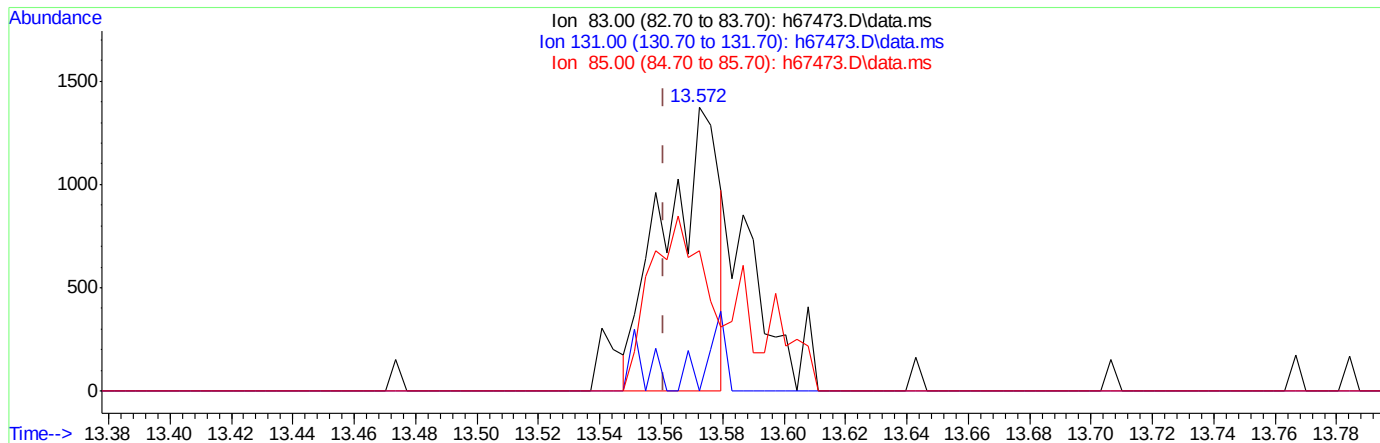
response 2541

Ion	Exp%	Act%
83.00	100	100
131.00	15.70	0.00
85.00	66.00	49.38
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\140716\
Data File : h67473.D
Acq On : 16 Jul 2014 1:27 pm
Operator : jaclynb
Sample : ic2244-0.5
Misc : ms32261,msh2244,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 17 10:16:32 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 10:16:09 2014
Response via : Initial Calibration



(84) 1,1,2,2-tetrachloroethane (P)

13.572min (+0.012) 0.60ug/L m

response 1687

Ion	Exp%	Act%
83.00	100	100
131.00	15.70	0.00
85.00	66.00	49.38
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\140716\
 Data File : h67474.D
 Acq On : 16 Jul 2014 1:56 pm
 Operator : jaclynb
 Sample : ic2244-1
 Misc : ms32261,msh2244,,,,5,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 17 10:25:43 2014
 Quant Method : C:\msdchem\1\METHODS\H140716W.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu Jul 17 10:16:09 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.207	65	128863	500.00	ug/L	0.01
4) pentafluorobenzene	8.628	168	410234	50.00	ug/L	0.00
42) 1,4-difluorobenzene	9.492	114	687439	50.00	ug/L	0.00
66) chlorobenzene-d5	12.746	82	363534	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.311	152	240259	50.00	ug/L	0.00

System Monitoring Compounds						
40) dibromofluoromethane (s)	0.000	113	0	0.00	ug/L	
Spiked Amount	50.000	Range	70 - 130	Recovery	=	0.00%#
60) toluene-d8 (s)	0.000	98	0	0.00	ug/L	
Spiked Amount	50.000	Range	70 - 130	Recovery	=	0.00%#
82) bromofluorobenzene (s)	0.000	95	0	0.00	ug/L	
Spiked Amount	50.000	Range	70 - 130	Recovery	=	0.00%#

Target Compounds						Qvalue
2) tertiary butyl alcohol	6.292	59	3485	10.29	ug/L	92
3) Ethanol	5.124	45	3339m	80.71	ug/L	
5) dichlorodifluoromethane	4.048	85	2837	1.01	ug/L	91
7) vinyl chloride	4.520	62	3676	1.32	ug/L	92
8) bromomethane	4.962	96	3301	1.29	ug/L	81
9) chloroethane	5.113	64	3238	1.27	ug/L	72
11) trichlorofluoromethane	5.699	101	6236	1.03	ug/L	69
12) freon-113	6.475	101	3945	1.13	ug/L #	72
14) 1,1-dichloroethene	6.292	96	4158	1.20	ug/L	89
16) ethyl ether	5.964	59	3579	1.12	ug/L #	47
18) methylene chloride	6.437	84	5557	1.39	ug/L	86
19) methyl tert butyl ether	7.209	73	9698	0.93	ug/L	80
21) allyl chloride	6.528	41	9809	1.33	ug/L	89
22) trans-1,2-dichloroethene	7.125	96	4937	1.27	ug/L	97
23) iodomethane	6.362	142	5874	1.08	ug/L	74
27) chloroprene	7.735	53	8426	1.16	ug/L	100
28) di-isopropyl ether	7.777	45	15255	1.09	ug/L	80
31) 1,1-dichloroethane	7.368	63	8430	1.09	ug/L	92
32) tert-butyl ethyl ether	8.176	59	13030	1.01	ug/L	95
33) Hexane	7.767	41	8405	1.36	ug/L #	85
35) 2,2-dichloropropane	8.222	77	5449	0.89	ug/L	84
36) cis-1,2-dichloroethene	7.947	96	5831	1.34	ug/L	80
38) bromochloromethane	8.116	128	2299	1.16	ug/L #	62
39) chloroform	8.141	83	7887	1.12	ug/L	90
41) 1,1,1-trichloroethane	8.889	97	6370	0.96	ug/L	81
43) cyclohexane	9.175	56	9328	1.22	ug/L #	61
44) carbon tetrachloride	9.253	117	4669	0.85	ug/L	91
45) 1,1-dichloropropene	9.065	75	6039	1.15	ug/L	87
46) benzene	9.291	78	16674	1.19	ug/L	96
48) 1,2-dichloroethane	8.801	62	6607	1.06	ug/L	96
49) tert-amyl methyl ether	9.415	73	9173	0.94	ug/L	87
50) heptane	9.782	43	8212	1.32	ug/L	77
51) trichloroethene	9.919	95	4672	1.15	ug/L	85
52) 1,2-dichloropropane	9.881	63	5133	1.29	ug/L	86

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\140716\
 Data File : h67474.D
 Acq On : 16 Jul 2014 1:56 pm
 Operator : jaclynb
 Sample : ic2244-1
 Misc : ms32261,msh2244,,,,5,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 17 10:25:43 2014
 Quant Method : C:\msdchem\1\METHODS\H140716W.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu Jul 17 10:16:09 2014
 Response via : Initial Calibration

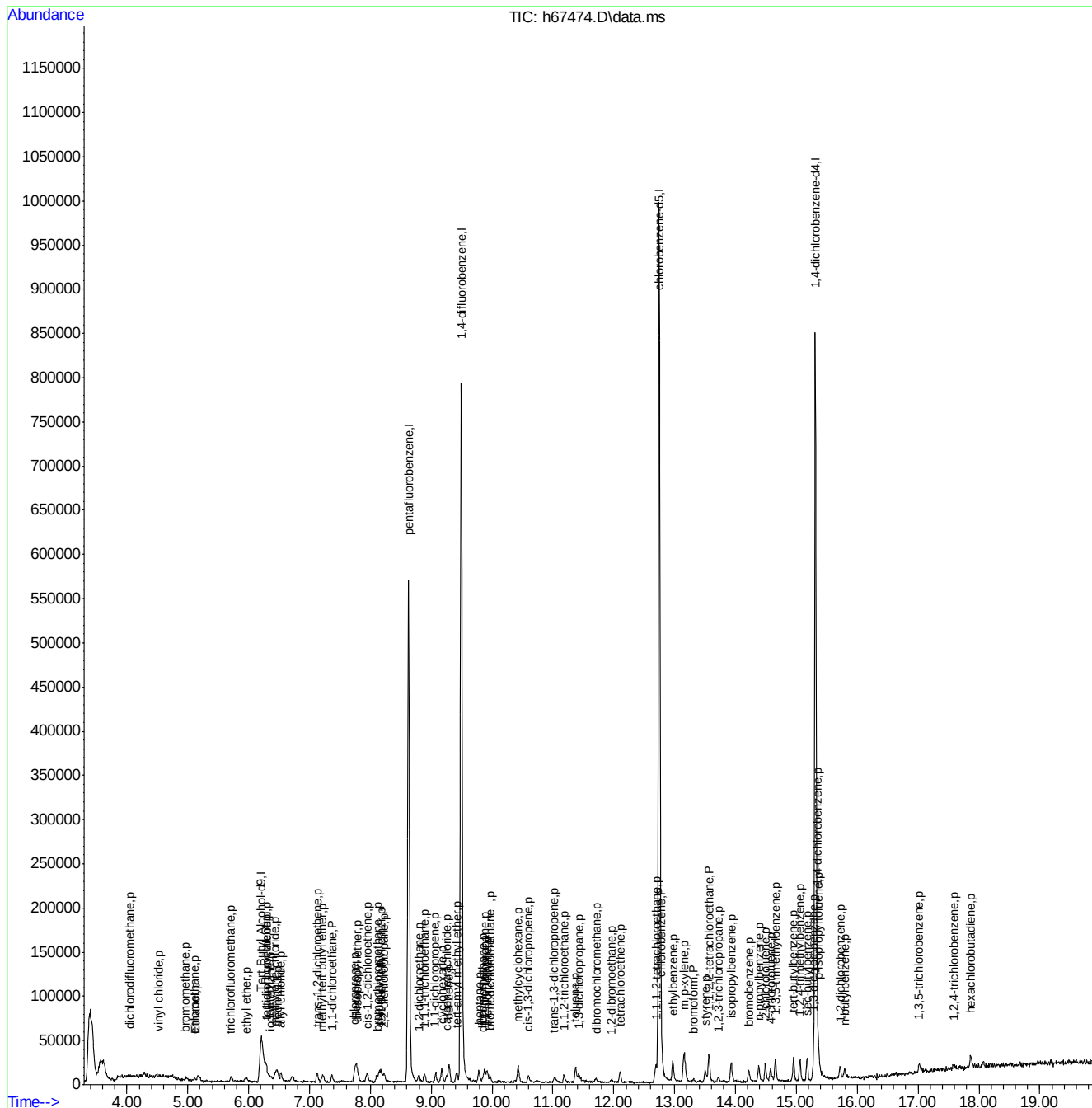
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) dibromomethane	9.852	93	2689	1.12	ug/L #	60
54) bromodichloromethane	9.962	83	5457	0.91	ug/L	82
55) methylcyclohexane	10.424	83	7294	1.16	ug/L #	73
59) cis-1,3-dichloropropene	10.593	75	6308	0.95	ug/L	84
62) toluene	11.366	92	10006	1.12	ug/L #	72
63) trans-1,3-dichloropropene	11.020	75	4862	0.78	ug/L	77
64) 1,1,2-trichloroethane	11.186	83	2937	1.03	ug/L #	69
67) tetrachloroethene	12.104	166	3938	1.30	ug/L	89
68) 1,3-dichloropropane	11.426	76	5671	1.26	ug/L	89
69) dibromochloromethane	11.709	129	2856	0.80	ug/L	86
70) 1,2-dibromoethane	11.959	107	3248	1.07	ug/L	91
72) chlorobenzene	12.785	112	11557	1.36	ug/L	86
73) 1,1,1,2-tetrachloroethane	12.700	131	3315	1.08	ug/L	97
74) ethylbenzene	12.972	91	20941	1.41	ug/L	88
75) m,p-xylene	13.152	106	15537	3.14	ug/L	83
77) styrene	13.501	104	11644	1.24	ug/L	92
78) bromoform	13.314	173	1353m	0.63	ug/L	
81) isopropylbenzene	13.928	105	19780	1.36	ug/L	93
83) bromobenzene	14.225	156	4213	1.20	ug/L	99
84) 1,1,2,2-tetrachloroethane	13.565	83	4319	1.50	ug/L	82
85) 1,2,3-trichloropropane	13.716	75	3820	0.98	ug/L	66
86) n-propylbenzene	14.380	91	20459	1.21	ug/L	88
87) 2-chlorotoluene	14.489	91	14630	1.33	ug/L	92
88) 4-chlorotoluene	14.581	91	11049	0.95	ug/L	79
89) 1,3,5-trimethylbenzene	14.655	105	16410	1.27	ug/L	92
90) tert-butylbenzene	14.955	91	10559	1.35	ug/L	81
91) 1,2,4-trimethylbenzene	15.061	105	14821	1.17	ug/L	92
92) sec-butylbenzene	15.181	105	20166	1.26	ug/L	86
93) 1,3-dichlorobenzene	15.280	146	6880	1.01	ug/L	88
94) p-isopropyltoluene	15.354	119	15353	1.32	ug/L	96
95) 1,4-dichlorobenzene	15.336	146	7926	1.36	ug/L	92
96) 1,2-dichlorobenzene	15.717	146	7059	1.09	ug/L	94
97) n-butylbenzene	15.795	91	11654	0.93	ug/L	96
99) 1,3,5-trichlorobenzene	17.016	180	3436	0.77	ug/L #	60
100) 1,2,4-trichlorobenzene	17.584	180	1901	0.50	ug/L #	47
101) hexachlorobutadiene	17.859	225	2393	1.13	ug/L	92

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\140716\
Data File : h67474.D
Acq On : 16 Jul 2014 1:56 pm
Operator : jaclynb
Sample : ic2244-1
Misc : ms32261,msh2244,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 17 10:25:43 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 10:16:09 2014
Response via : Initial Calibration



H140716W.M Thu Jul 17 17:29:56 2014

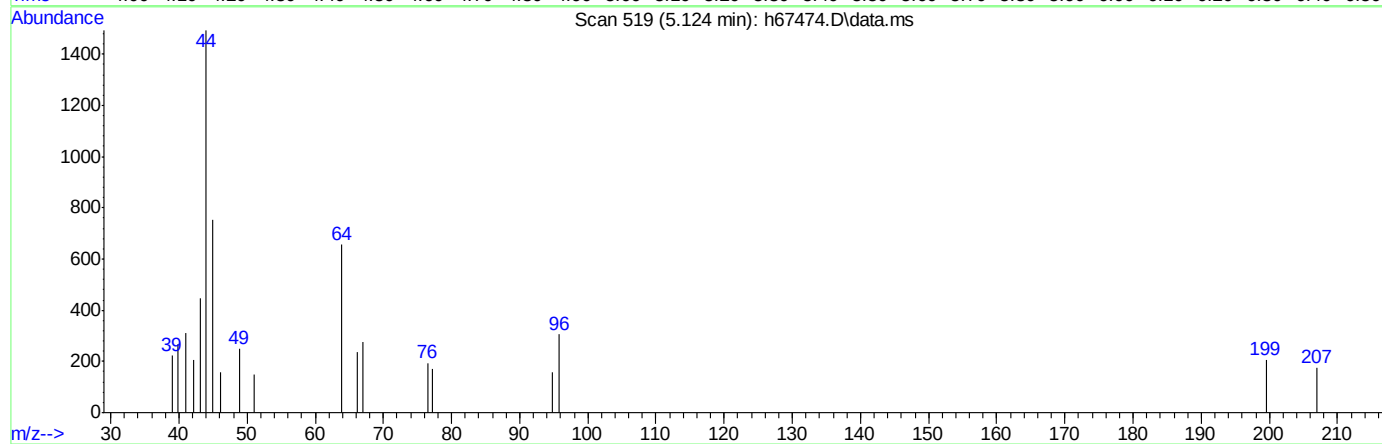
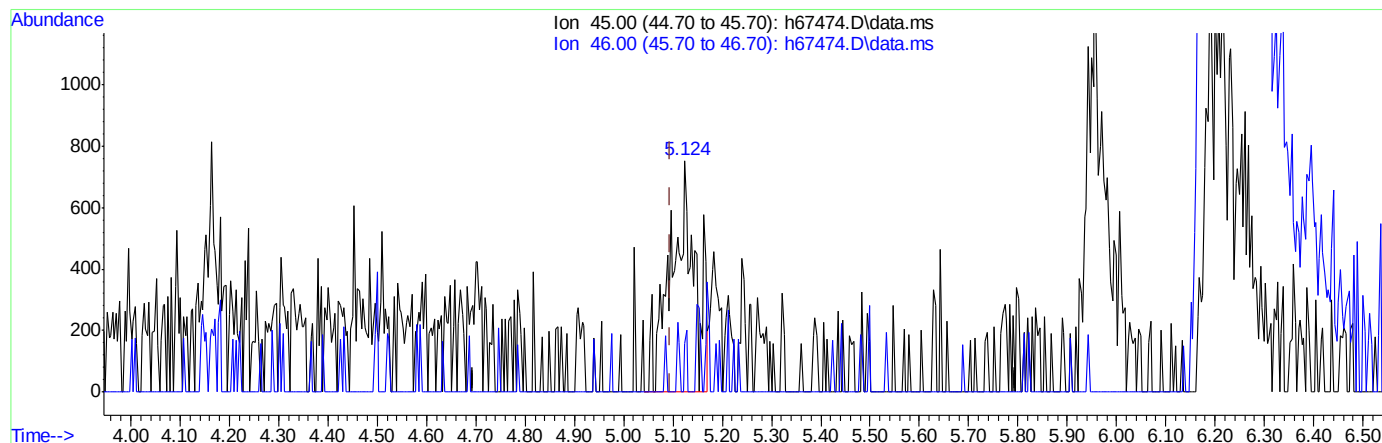
Page: 3

7.6.3

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\140716\
Data File : h67474.D
Acq On : 16 Jul 2014 1:56 pm
Operator : jaclynb
Sample : ic2244-1
Misc : ms32261,msh2244,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 17 10:16:34 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 10:16:09 2014
Response via : Initial Calibration



(3) Ethanol (p)

5.124min (+0.029) 60.96ug/L

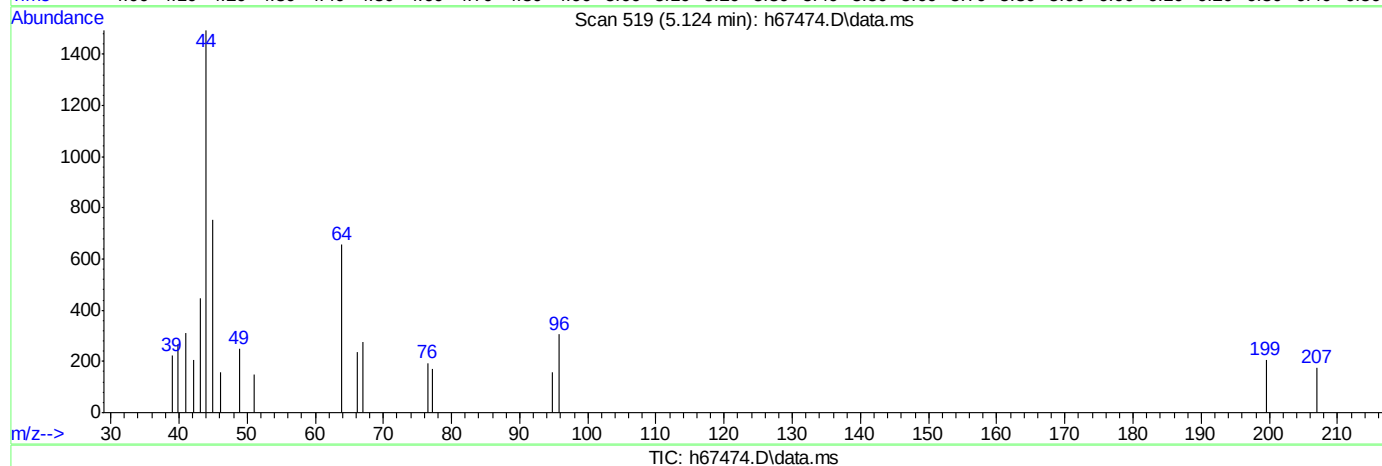
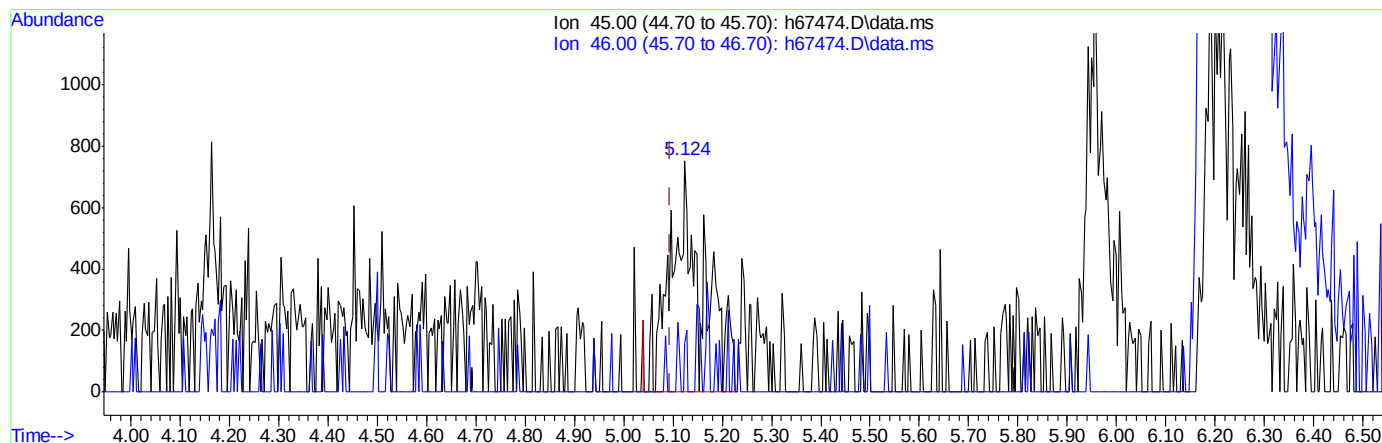
response 2522

Ion	Exp%	Act%
45.00	100	100
46.00	34.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\140716\
Data File : h67474.D
Acq On : 16 Jul 2014 1:56 pm
Operator : jaclynb
Sample : ic2244-1
Misc : ms32261,msh2244,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 17 10:16:34 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 10:16:09 2014
Response via : Initial Calibration



(3) Ethanol (p)

5.124min (+0.029) 80.71ug/L m

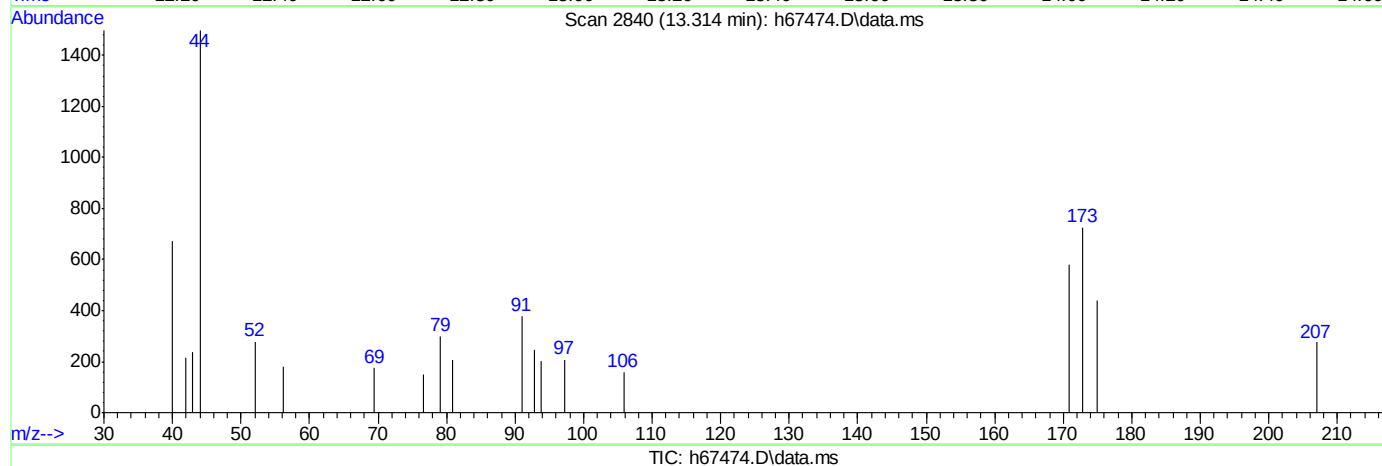
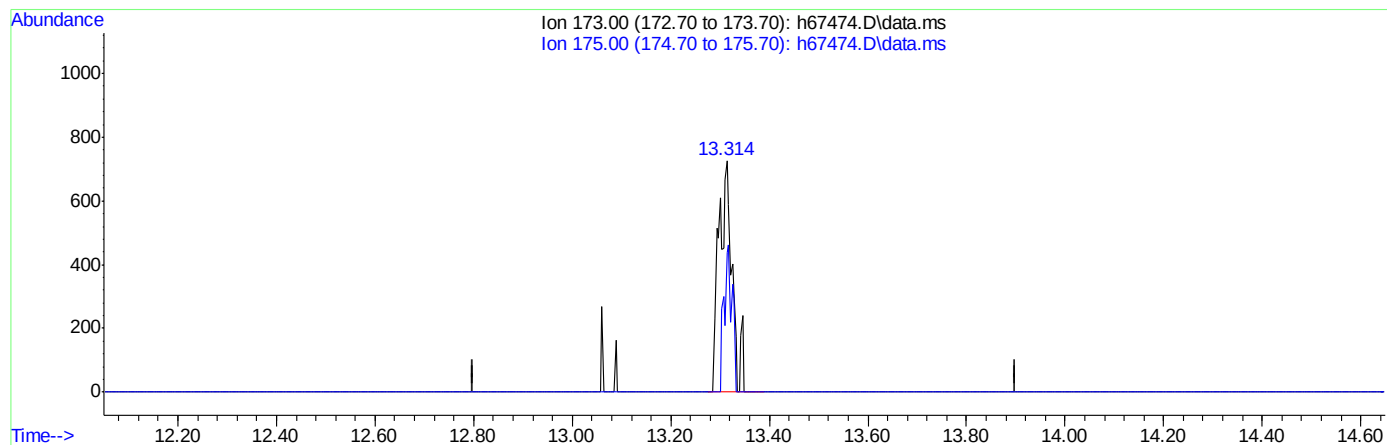
response 3339

Ion	Exp%	Act%
45.00	100	100
46.00	34.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\140716\
Data File : h67474.D
Acq On : 16 Jul 2014 1:56 pm
Operator : jaclynb
Sample : ic2244-1
Misc : ms32261,msh2244,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 17 10:16:34 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 10:16:09 2014
Response via : Initial Calibration



(78) bromoform (P)

13.314min (+0.014) 0.63ug/L m

response 1353

Ion	Exp%	Act%
173.00	100	100
175.00	47.70	60.25
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\140716\
 Data File : h67475.D
 Acq On : 16 Jul 2014 2:24 pm
 Operator : jaclynb
 Sample : ic2244-5
 Misc : ms32261,msh2244,,,,5,1
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 17 10:28:23 2014
 Quant Method : C:\msdchem\1\METHODS\H140716W.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu Jul 17 10:16:09 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.209	65	130542	500.00	ug/L	0.01
4) pentafluorobenzene	8.629	168	415092	50.00	ug/L	0.00
42) 1,4-difluorobenzene	9.490	114	698999	50.00	ug/L	0.00
66) chlorobenzene-d5	12.744	82	370673	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.313	152	259130	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.269	113	19491	3.90	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	7.80%#		
60) toluene-d8 (s)	11.290	98	71268	4.38	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	8.76%#		
82) bromofluorobenzene (s)	13.979	95	28387	4.46	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	8.92%#		
Target Compounds						
						Qvalue
2) tertiary butyl alcohol	6.300	59	19219	56.02	ug/L	79
3) Ethanol	5.104	45	16465	392.89	ug/L #	84
5) dichlorodifluoromethane	4.038	85	13868	4.88	ug/L	95
7) vinyl chloride	4.518	62	17802	6.31	ug/L	75
8) bromomethane	4.977	96	15978	6.18	ug/L	94
9) chloroethane	5.118	64	14202	5.50	ug/L	87
10) acetonitrile	5.616	41	1858	3.02	ug/L	83
11) trichlorofluoromethane	5.715	101	30523	4.97	ug/L	90
12) freon-113	6.473	101	22434	6.34	ug/L	79
13) acrolein	5.729	56	8065	17.42	ug/L	92
14) 1,1-dichloroethene	6.286	96	22887	6.52	ug/L #	68
15) acetone	5.888	58	1345m	3.77	ug/L	
16) ethyl ether	5.944	59	17995	5.55	ug/L	70
17) methyl acetate	6.487	43	15556	5.56	ug/L	81
18) methylene chloride	6.445	84	26733	6.60	ug/L #	72
19) methyl tert butyl ether	7.214	73	56225	5.34	ug/L	73
21) allyl chloride	6.526	41	47362	6.33	ug/L	79
22) trans-1,2-dichloroethene	7.126	96	25810	6.54	ug/L #	81
23) iodomethane	6.371	142	31754	5.79	ug/L	93
25) propionitrile	7.454	54	1267m	2.39	ug/L	
26) vinyl acetate	7.490	43	39005	4.37	ug/L	89
27) chloroprene	7.740	53	46927	6.40	ug/L	97
28) di-isopropyl ether	7.782	45	91849	6.49	ug/L	84
29) methacrylonitrile	7.913	41	11003	4.34	ug/L	83
30) 2-butanone	7.853	72	1778m	4.91	ug/L	
31) 1,1-dichloroethane	7.370	63	46077	5.88	ug/L	87
32) tert-butyl ethyl ether	8.171	59	78294	6.02	ug/L	91
33) Hexane	7.754	41	43993	7.05	ug/L	88
34) isobutyl alcohol	8.174	43	14062m	32.89	ug/L	
35) 2,2-dichloropropane	8.224	77	35745	5.75	ug/L	91
36) cis-1,2-dichloroethene	7.941	96	27354	6.23	ug/L	94
37) ethyl acetate	8.114	43	11303	3.92	ug/L	87
38) bromochloromethane	8.104	128	11374	5.69	ug/L #	51
39) chloroform	8.142	83	44999	6.31	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\140716\
 Data File : h67475.D
 Acq On : 16 Jul 2014 2:24 pm
 Operator : jaclynb
 Sample : ic2244-5
 Misc : ms32261,msh2244,,,,5,1
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 17 10:28:23 2014
 Quant Method : C:\msdchem\1\METHODS\H140716W.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu Jul 17 10:16:09 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,1,1-trichloroethane	8.891	97	38132	5.68	ug/L	92
43) cyclohexane	9.173	56	47516	6.14	ug/L #	70
44) carbon tetrachloride	9.254	117	27811	4.99	ug/L	97
45) 1,1-dichloropropene	9.063	75	33044	6.16	ug/L	93
46) benzene	9.286	78	97788	6.85	ug/L	93
47) tetrahydrofuran	8.481	42	7227	6.39	ug/L	68
48) 1,2-dichloroethane	8.795	62	36392	5.76	ug/L	96
49) tert-amyl methyl ether	9.420	73	56089	5.65	ug/L	91
50) heptane	9.780	43	42731	6.73	ug/L	84
51) trichloroethene	9.914	95	29081	7.04	ug/L	79
52) 1,2-dichloropropane	9.875	63	26603	6.58	ug/L	93
53) dibromomethane	9.854	93	15329	6.26	ug/L #	79
54) bromodichloromethane	9.960	83	31170	5.12	ug/L	97
55) methylcyclohexane	10.429	83	39907	6.22	ug/L #	83
56) 2-chloroethyl vinyl ether	10.355	63	7101	3.23	ug/L	87
57) methyl methacrylate	10.083	69	11726	5.04	ug/L	85
58) 1,4-dioxane	10.094	88	642m	19.02	ug/L	
59) cis-1,3-dichloropropene	10.591	75	36692	5.43	ug/L	94
61) 4-methyl-2-pentanone	10.704	43	18856	4.53	ug/L	92
62) toluene	11.361	92	62762	6.93	ug/L	83
63) trans-1,3-dichloropropene	11.018	75	30472	4.79	ug/L	100
64) 1,1,2-trichloroethane	11.177	83	16274	5.62	ug/L	95
65) ethyl methacrylate	11.410	69	23671	5.58	ug/L #	8
67) tetrachloroethene	12.105	166	24207	7.85	ug/L	94
68) 1,3-dichloropropane	11.414	76	33414	7.27	ug/L	94
69) dibromochloromethane	11.699	129	18902	5.22	ug/L	96
70) 1,2-dibromoethane	11.957	107	19336	6.24	ug/L	88
71) 2-hexanone	11.622	43	13534m	5.70	ug/L	
72) chlorobenzene	12.783	112	67568	7.79	ug/L	92
73) 1,1,1,2-tetrachloroethane	12.698	131	20153	6.45	ug/L	97
74) ethylbenzene	12.963	91	119743	7.90	ug/L	96
75) m,p-xylene	13.146	106	91055	18.07	ug/L	93
77) styrene	13.492	104	63386m	6.63	ug/L	
78) bromoform	13.305	173	9326	4.24	ug/L	87
79) trans-1,4-dichloro-2-b...	13.725	53	4621	4.10	ug/L	89
81) isopropylbenzene	13.923	105	113309	7.22	ug/L	97
83) bromobenzene	14.212	156	23847	6.32	ug/L #	72
84) 1,1,2,2-tetrachloroethane	13.559	83	26753	8.63	ug/L	91
85) 1,2,3-trichloropropane	13.714	75	23542	5.62	ug/L	88
86) n-propylbenzene	14.371	91	123963	6.78	ug/L	98
87) 2-chlorotoluene	14.484	91	85125	7.16	ug/L	81
88) 4-chlorotoluene	14.565	91	82245	6.56	ug/L	83
89) 1,3,5-trimethylbenzene	14.650	105	98563	7.06	ug/L	96
90) tert-butylbenzene	14.949	91	57712	6.87	ug/L	79
91) 1,2,4-trimethylbenzene	15.059	105	89806	6.57	ug/L	91
92) sec-butylbenzene	15.175	105	116505	6.76	ug/L	91
93) 1,3-dichlorobenzene	15.274	146	44440	6.06	ug/L	93
94) p-isopropyltoluene	15.352	119	91101	7.24	ug/L	93
95) 1,4-dichlorobenzene	15.338	146	47131	7.49	ug/L	96
96) 1,2-dichlorobenzene	15.705	146	44961	6.46	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\140716\
Data File : h67475.D
Acq On : 16 Jul 2014 2:24 pm
Operator : jaclynb
Sample : ic2244-5
Misc : ms32261,msh2244,,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 17 10:28:23 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 10:16:09 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97) n-butylbenzene	15.775	91	73729	5.46	ug/L	87
98) 1,2-dibromo-3-chloropr...	16.199	75	2774	4.05	ug/L #	65
99) 1,3,5-trichlorobenzene	17.010	180	24396	5.05	ug/L	98
100) 1,2,4-trichlorobenzene	17.568	180	13499	3.30	ug/L	100
101) hexachlorobutadiene	17.868	225	14862	6.51	ug/L	88

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

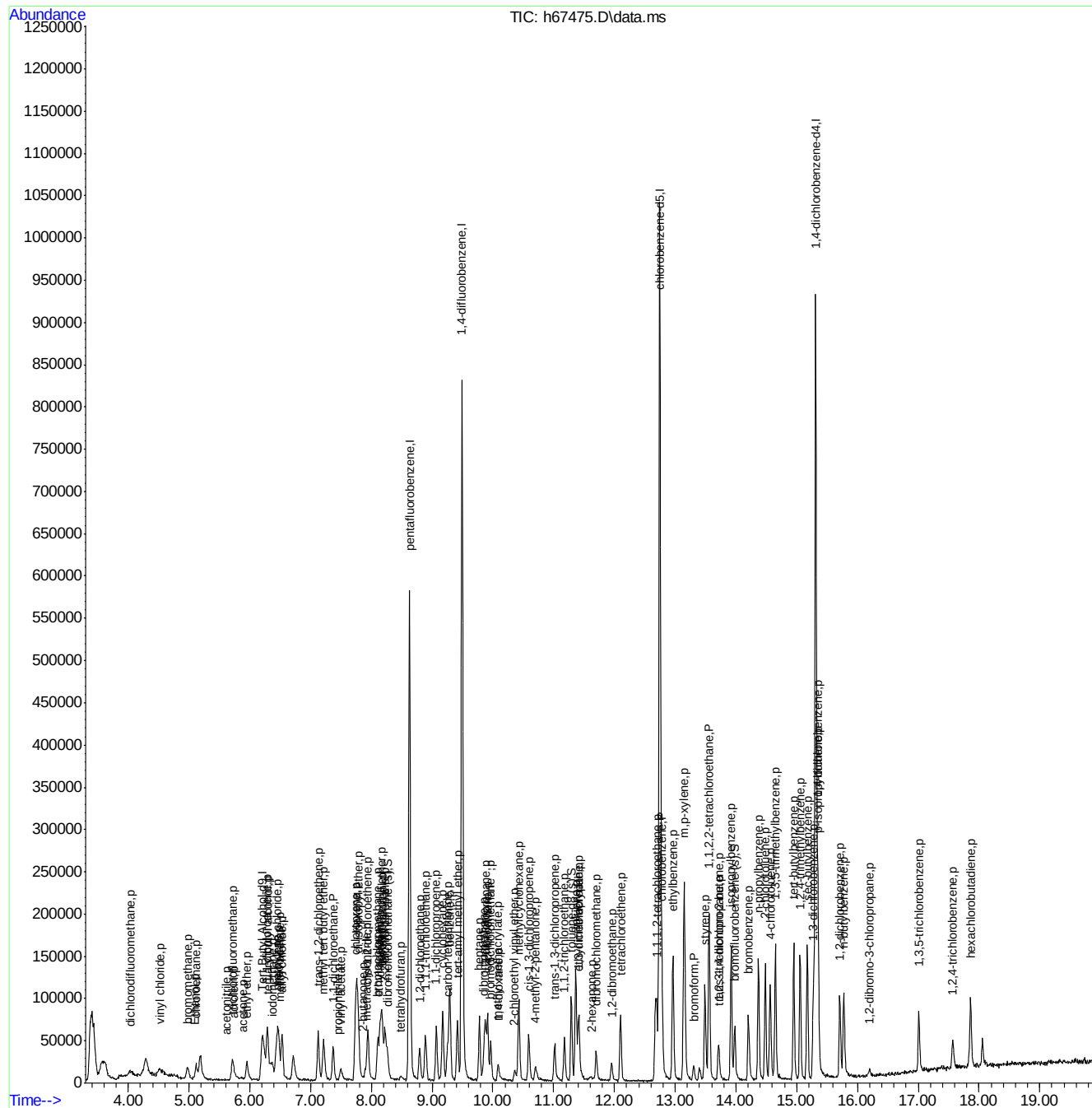
7.6.4

7

Quantitation Report (QT Reviewed)

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Data Path   : C:\msdchem\1\DATA\140716\
Data File  : h67475.D
Acq On     : 16 Jul 2014    2:24 pm
Operator   : jaclynb
Sample     : ic2244-5
Misc       : ms32261,msh2244,,,,5,1
ALS Vial   : 5      Sample Multiplier: 1
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Quant Time: Jul 17 10:28:23 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 10:16:09 2014
Response via : Initial Calibration



H140716W.M Thu Jul 17 17:30:03 2014

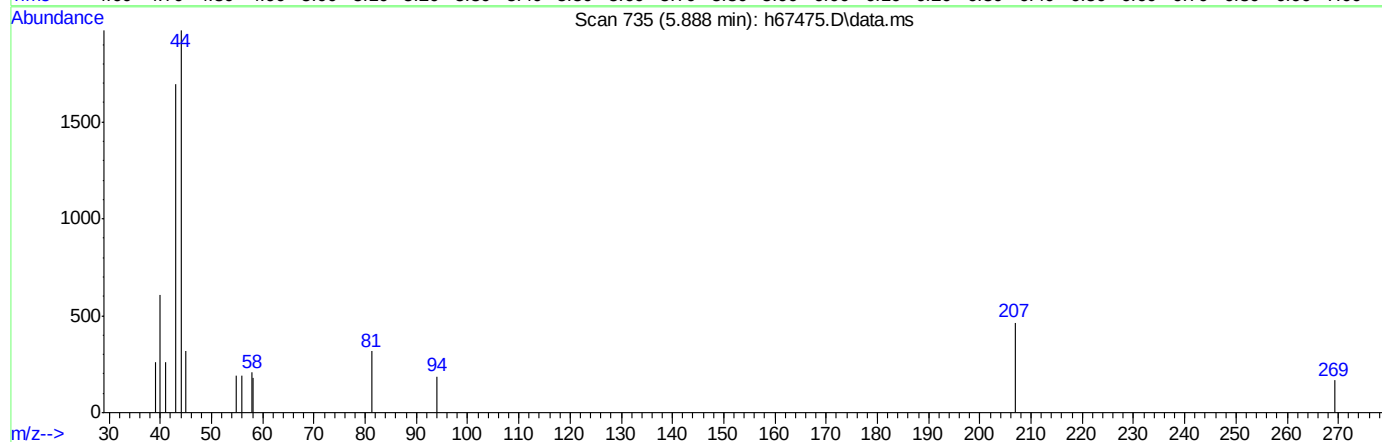
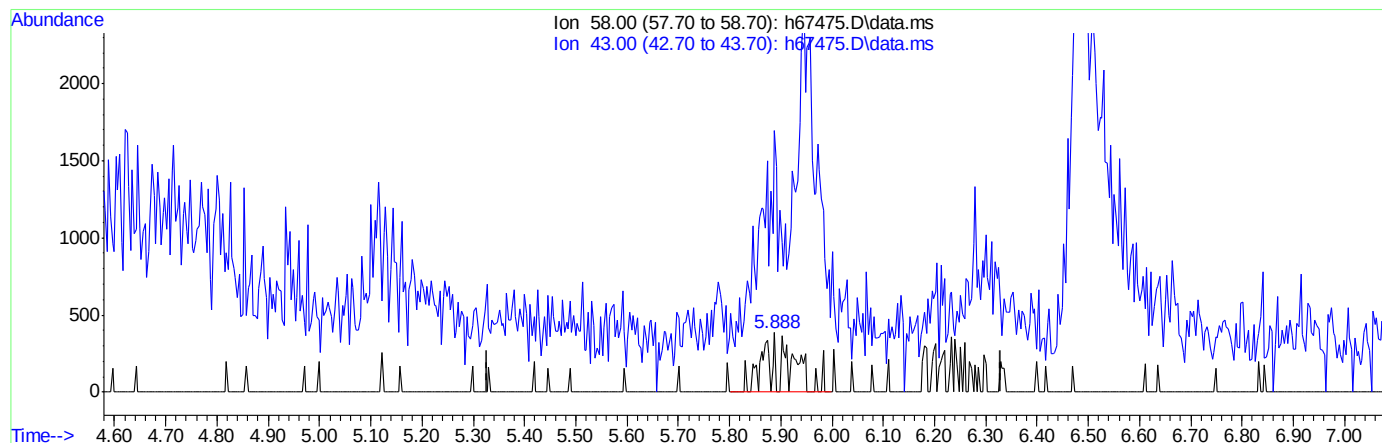
Page: 4

7.6.4

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\140716\
Data File : h67475.D
Acq On : 16 Jul 2014 2:24 pm
Operator : jaclynb
Sample : ic2244-5
Misc : ms32261,msh2244,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 17 10:16:36 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 10:16:09 2014
Response via : Initial Calibration



(15) acetone (p)

5.888min (+0.058) 3.77ug/L m

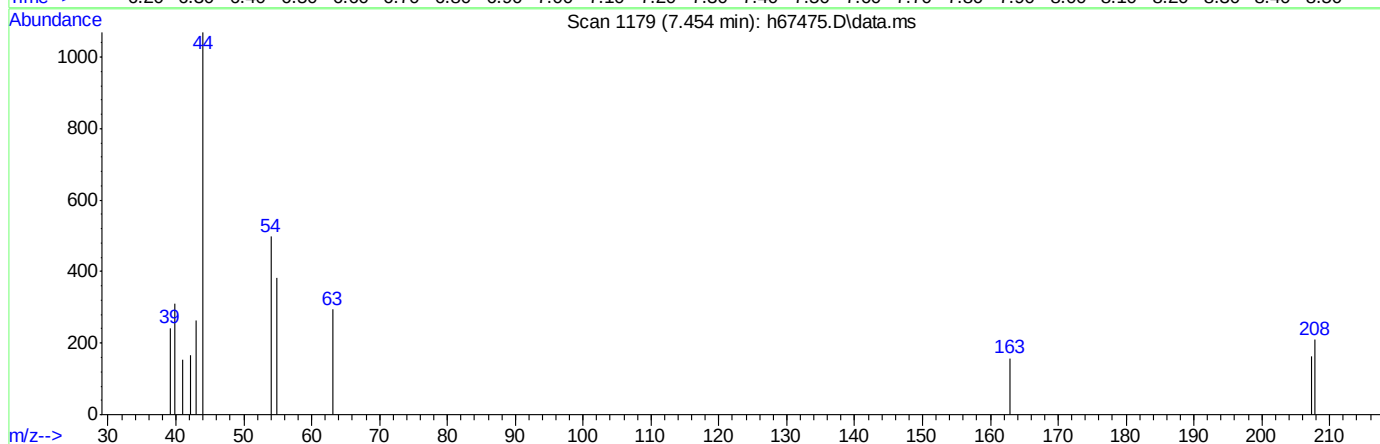
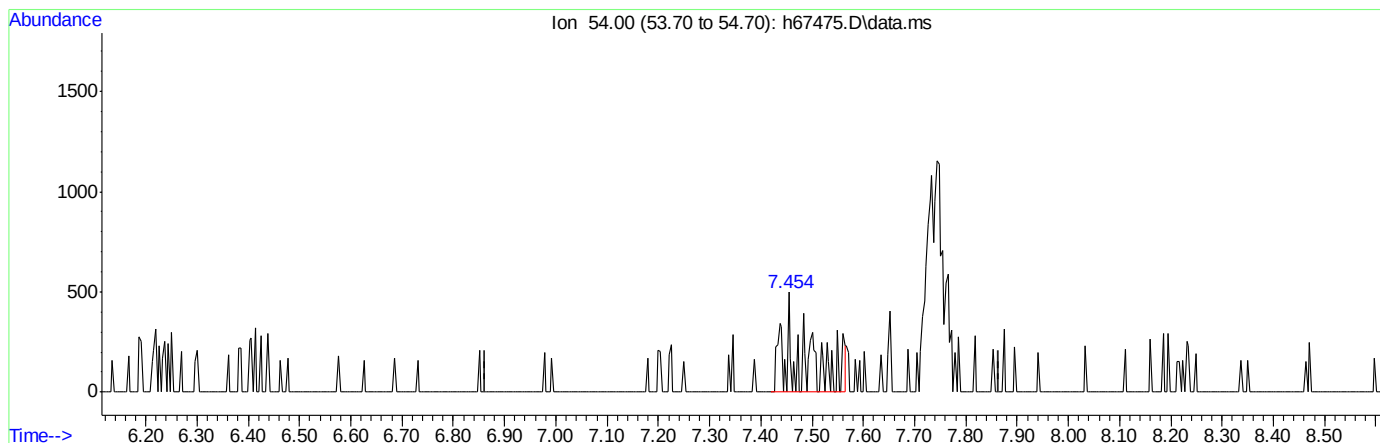
response 1345

Ion	Exp%	Act%
58.00	100	100
43.00	300.80	814.90#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\140716\
Data File : h67475.D
Acq On : 16 Jul 2014 2:24 pm
Operator : jaclynb
Sample : ic2244-5
Misc : ms32261,msh2244,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 17 10:16:36 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 10:16:09 2014
Response via : Initial Calibration



(25) propionitrile (p)

7.454min (+0.090) 2.39ug/L m

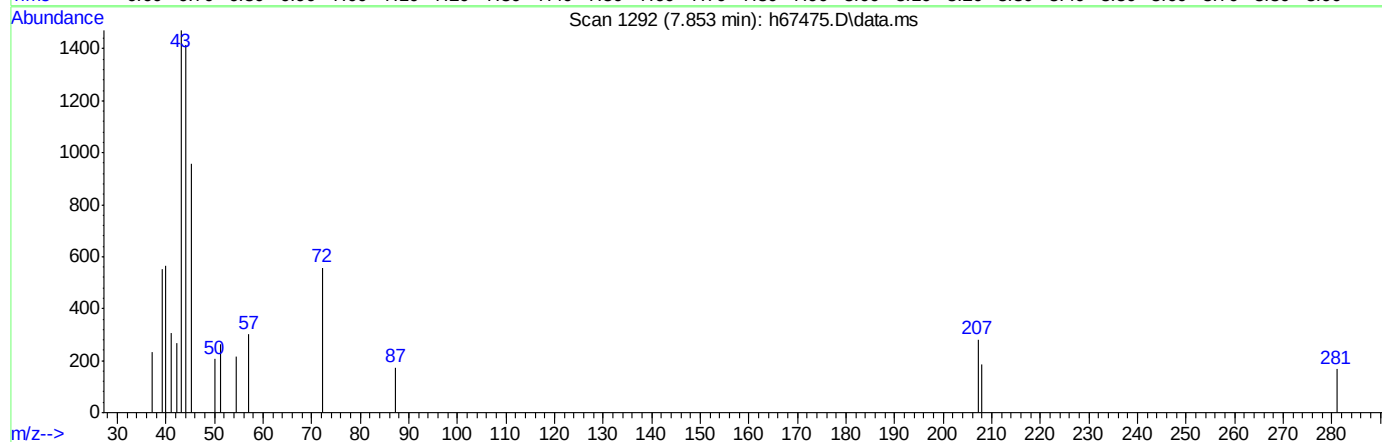
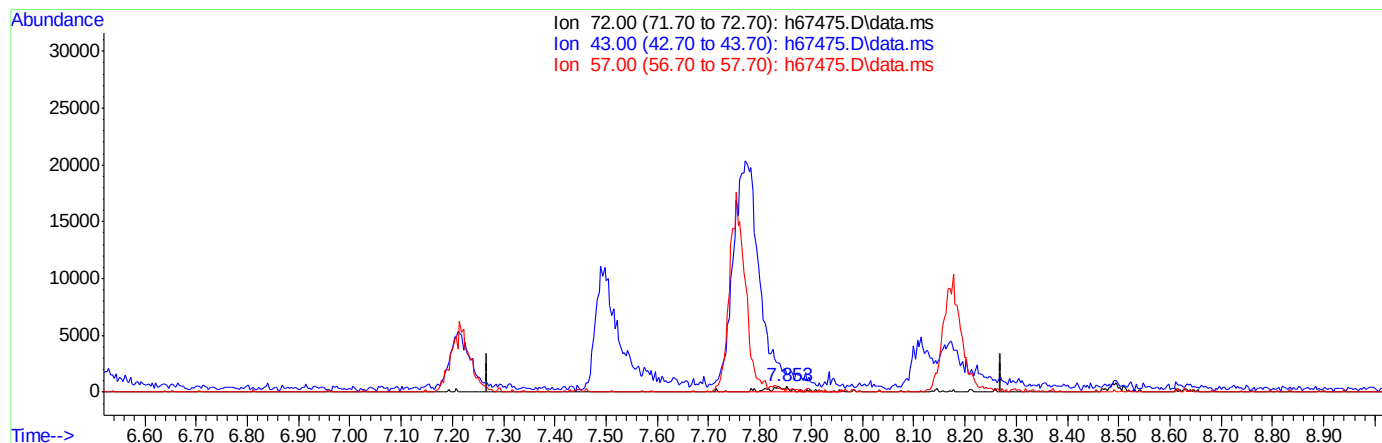
response 1267

Ion	Exp%	Act%
54.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\140716\
Data File : h67475.D
Acq On : 16 Jul 2014 2:24 pm
Operator : jaclynb
Sample : ic2244-5
Misc : ms32261,msh2244,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 17 10:16:36 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 10:16:09 2014
Response via : Initial Calibration



(30) 2-butanone (p)

7.853min (+0.083) 4.91ug/L m

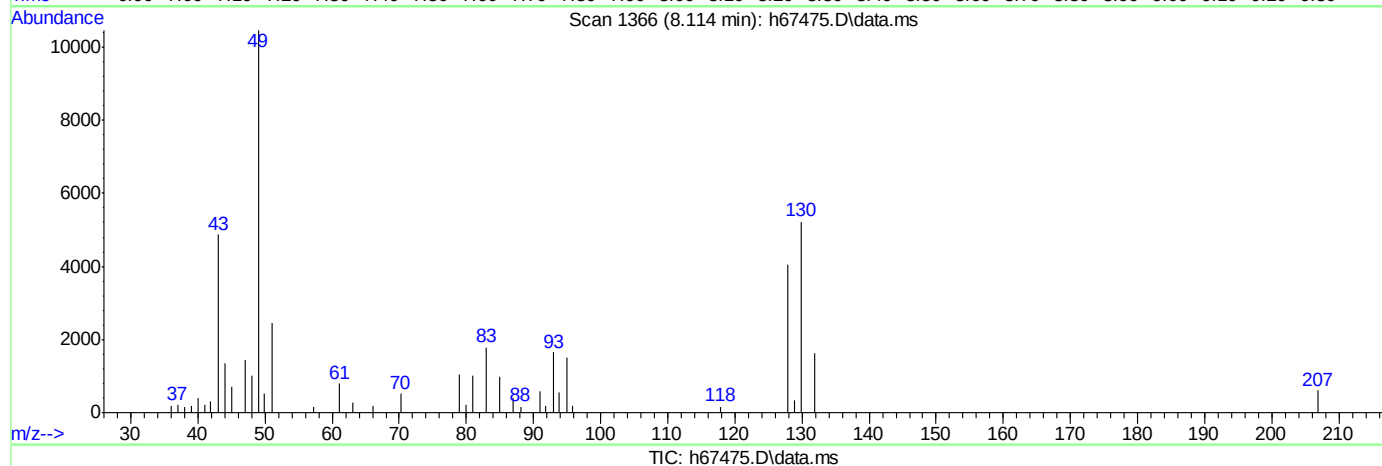
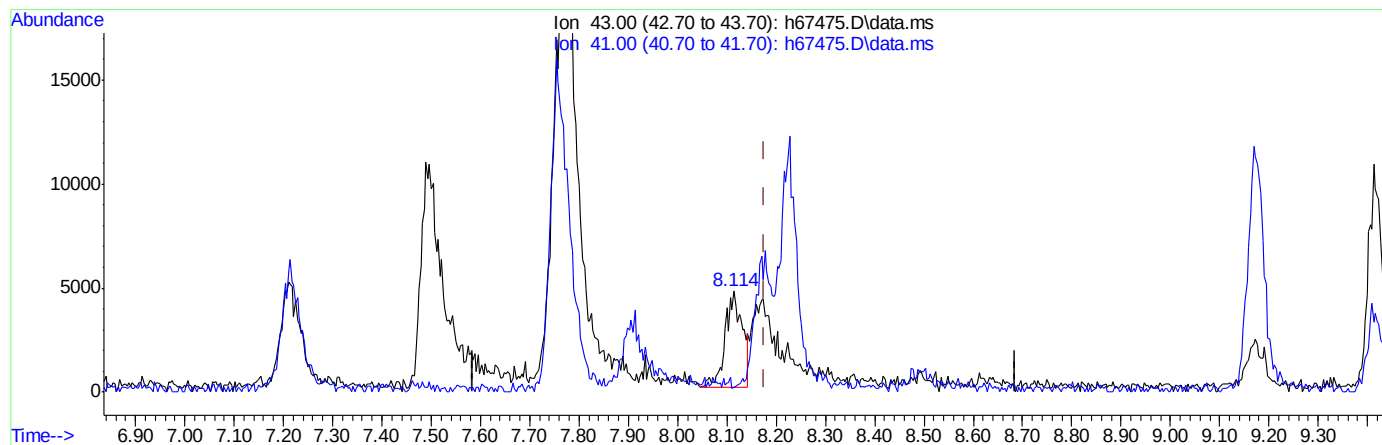
response 1778

Ion	Exp%	Act%
72.00	100	100
43.00	1785.50	263.62#
57.00	194.50	54.48#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\140716\
Data File : h67475.D
Acq On : 16 Jul 2014 2:24 pm
Operator : jaclynb
Sample : ic2244-5
Misc : ms32261,msh2244,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 17 10:16:36 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 10:16:09 2014
Response via : Initial Calibration



(34) isobutyl alcohol (p)

8.114min (-0.062) 26.44ug/L

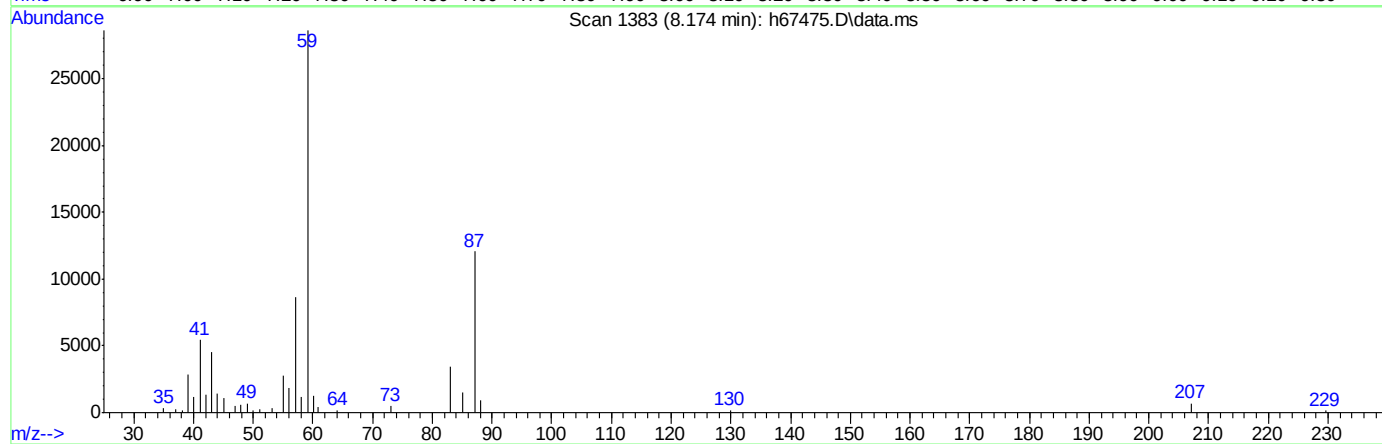
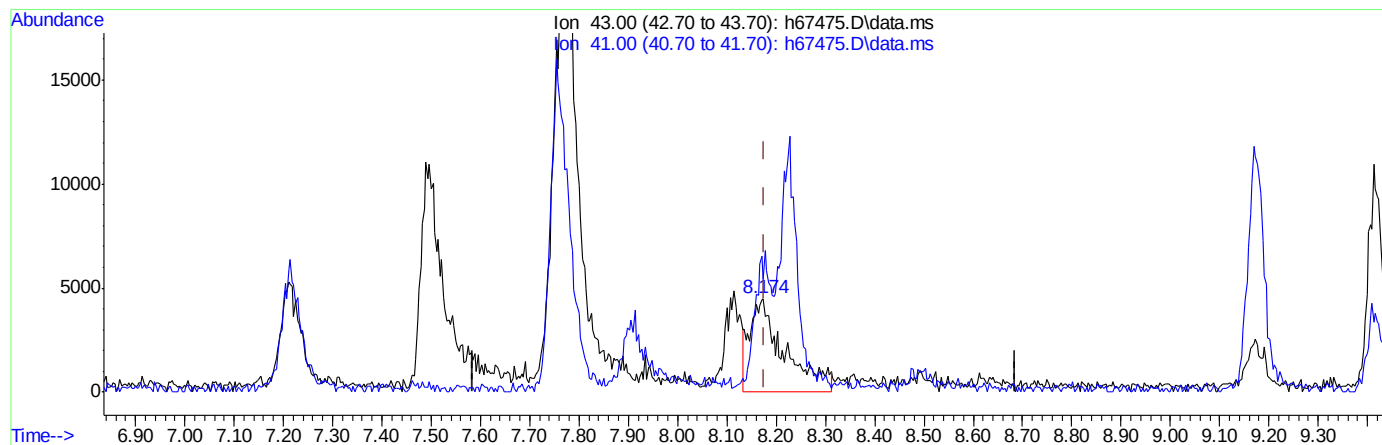
response 11303

Ion	Exp%	Act%
43.00	100	100
41.00	145.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\140716\
Data File : h67475.D
Acq On : 16 Jul 2014 2:24 pm
Operator : jaclynb
Sample : ic2244-5
Misc : ms32261,msh2244,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 17 10:16:36 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 10:16:09 2014
Response via : Initial Calibration



(34) isobutyl alcohol (p)

8.174min (-0.002) 51.66ug/L m

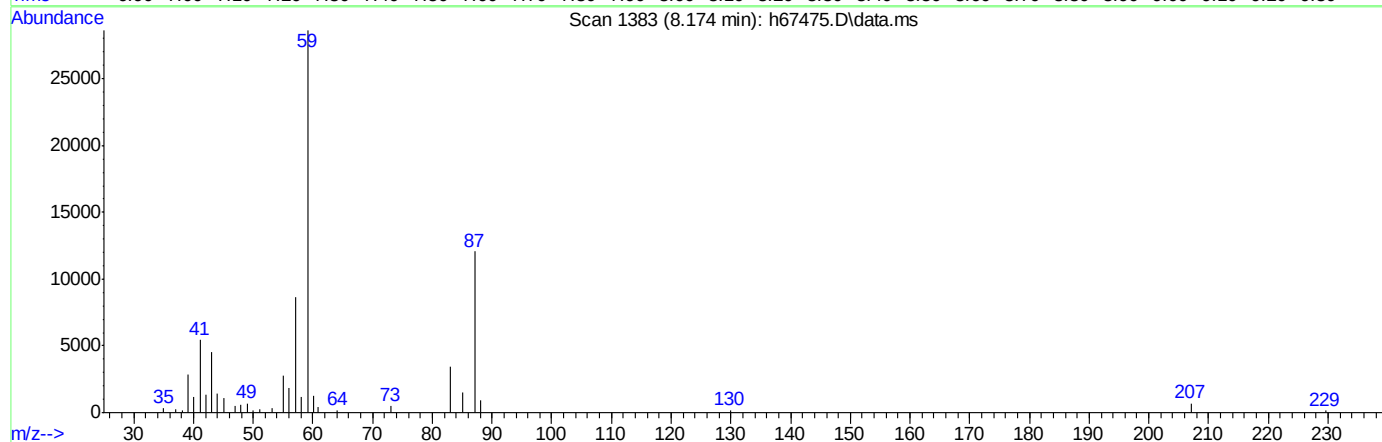
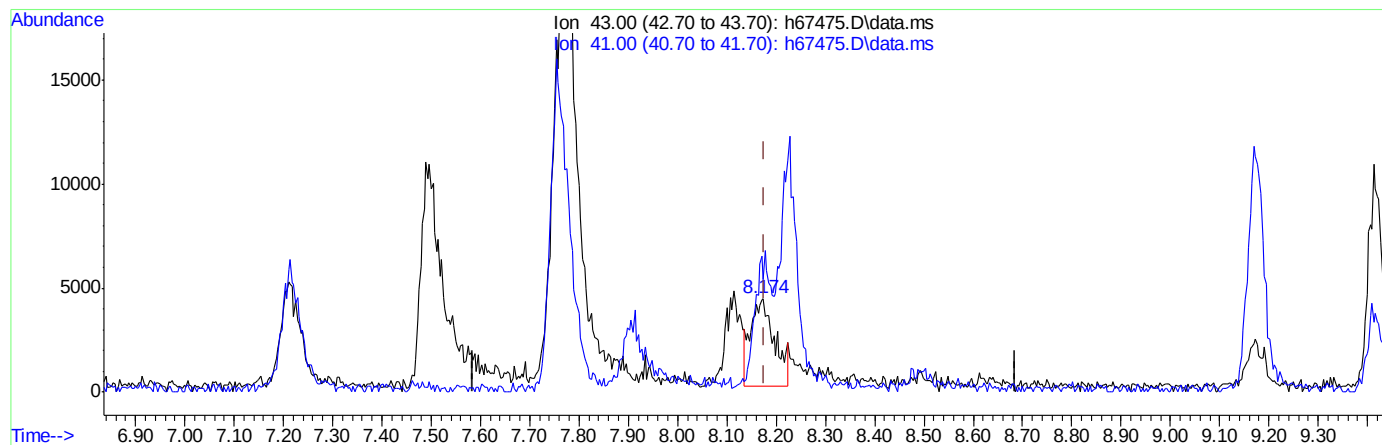
response 22086

Ion	Exp%	Act%
43.00	100	100
41.00	145.60	120.07
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\140716\
Data File : h67475.D
Acq On : 16 Jul 2014 2:24 pm
Operator : jaclynb
Sample : ic2244-5
Misc : ms32261,msh2244,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 17 10:16:36 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 10:16:09 2014
Response via : Initial Calibration



TIC: h67475.D\data.ms

(34) isobutyl alcohol (p)

8.174min (-0.002) 32.89ug/L m

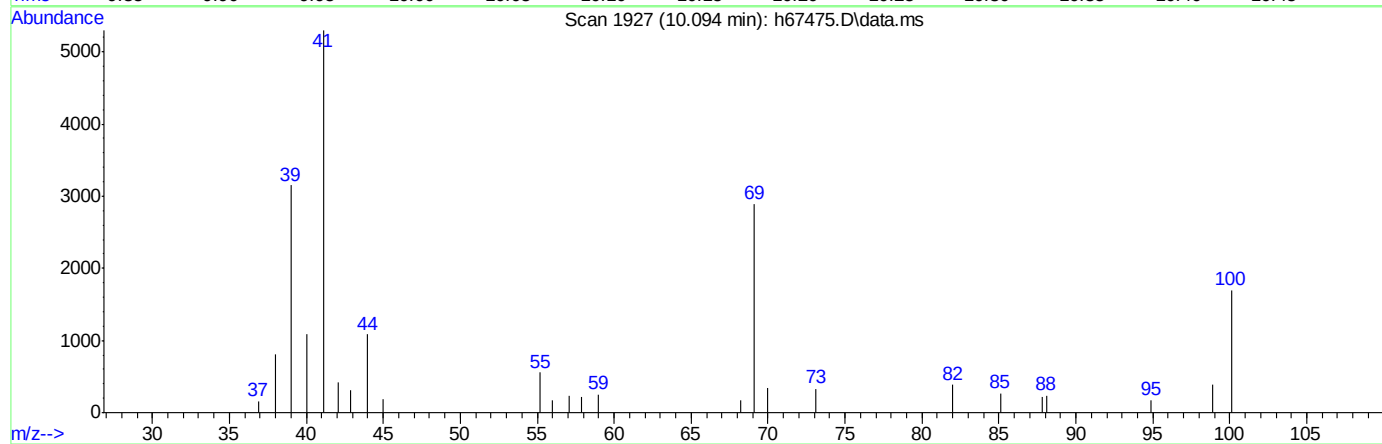
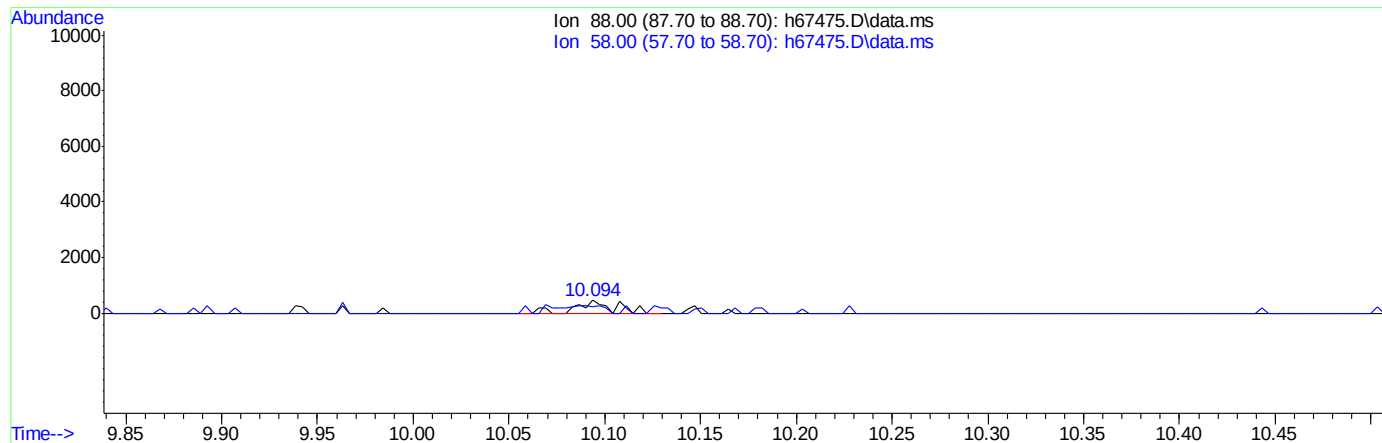
response 14062

Ion	Exp%	Act%
43.00	100	100
41.00	145.60	120.07
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\140716\
Data File : h67475.D
Acq On : 16 Jul 2014 2:24 pm
Operator : jaclynb
Sample : ic2244-5
Misc : ms32261,msh2244,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 17 10:16:36 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 10:16:09 2014
Response via : Initial Calibration



(58) 1,4-dioxane (p)

10.094min (+0.041) 19.02ug/L m

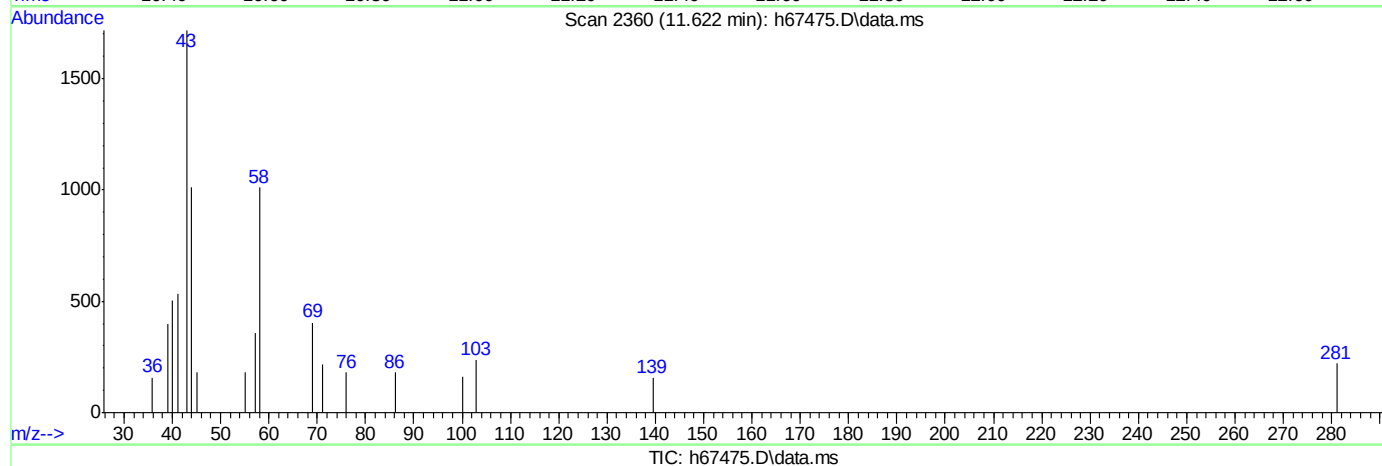
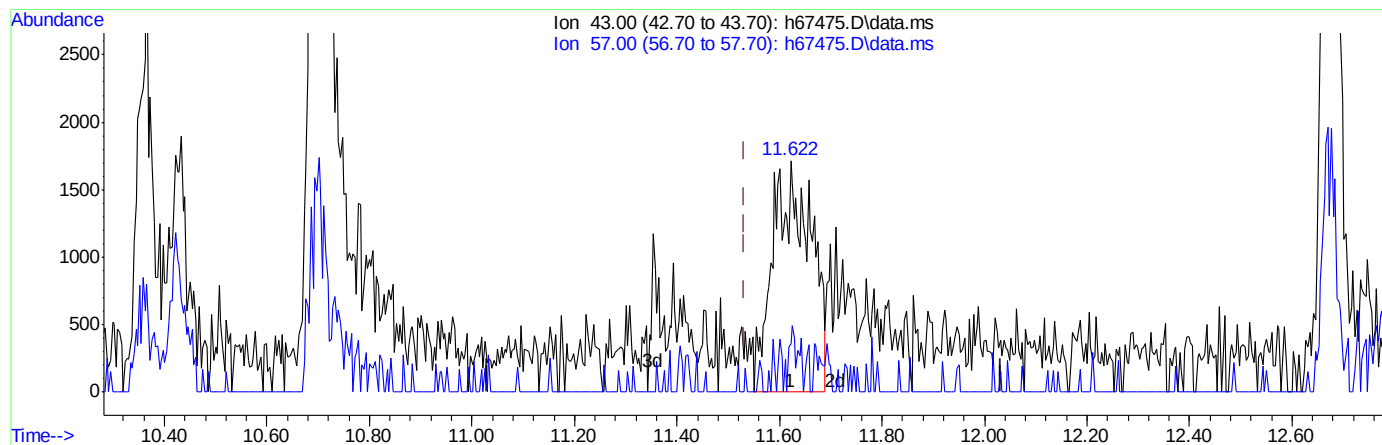
response 642

Ion	Exp%	Act%
88.00	100	100
58.00	90.10	96.15
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\140716\
Data File : h67475.D
Acq On : 16 Jul 2014 2:24 pm
Operator : jaclynb
Sample : ic2244-5
Misc : ms32261,msh2244,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 17 10:16:36 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 10:16:09 2014
Response via : Initial Calibration



(71) 2-hexanone (p)

11.622min (+0.090) 3.67ug/L

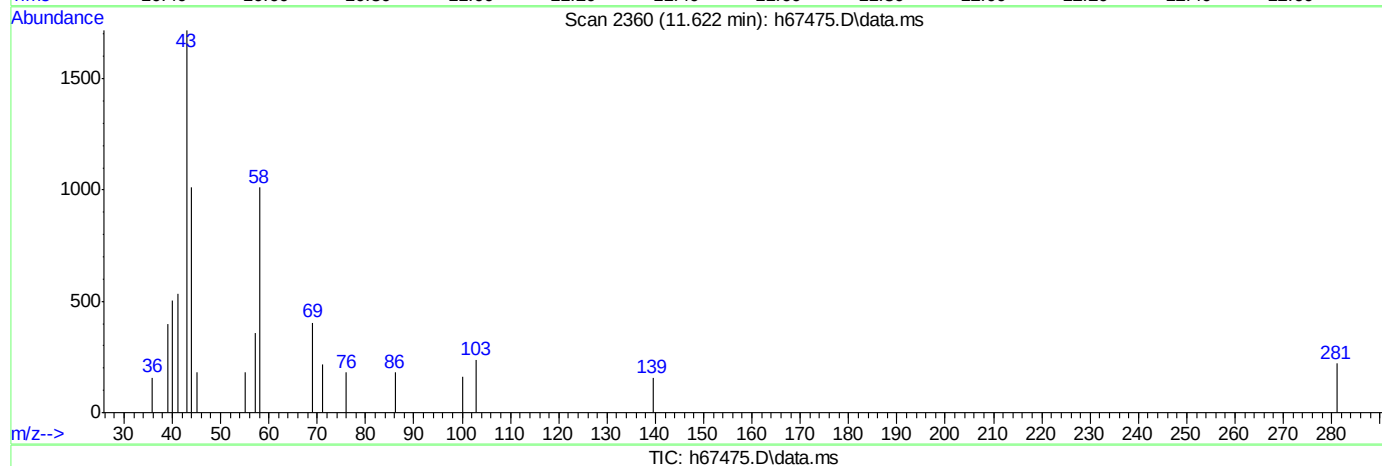
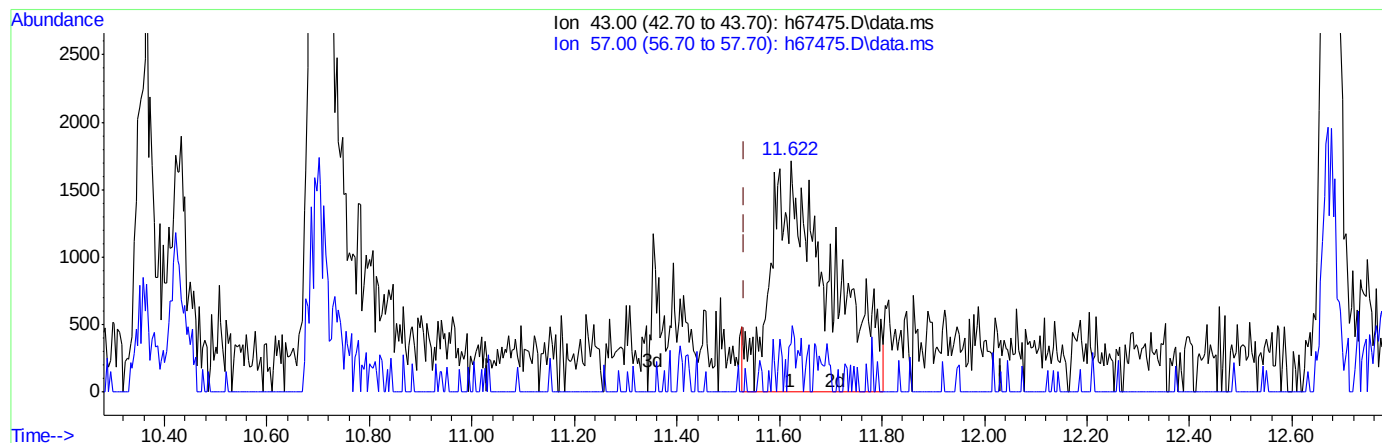
response 8726

Ion	Exp%	Act%
43.00	100	100
57.00	18.40	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\140716\
Data File : h67475.D
Acq On : 16 Jul 2014 2:24 pm
Operator : jaclynb
Sample : ic2244-5
Misc : ms32261,msh2244,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 17 10:16:36 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 10:16:09 2014
Response via : Initial Calibration



(71) 2-hexanone (p)

11.622min (+0.090) 5.70ug/L m

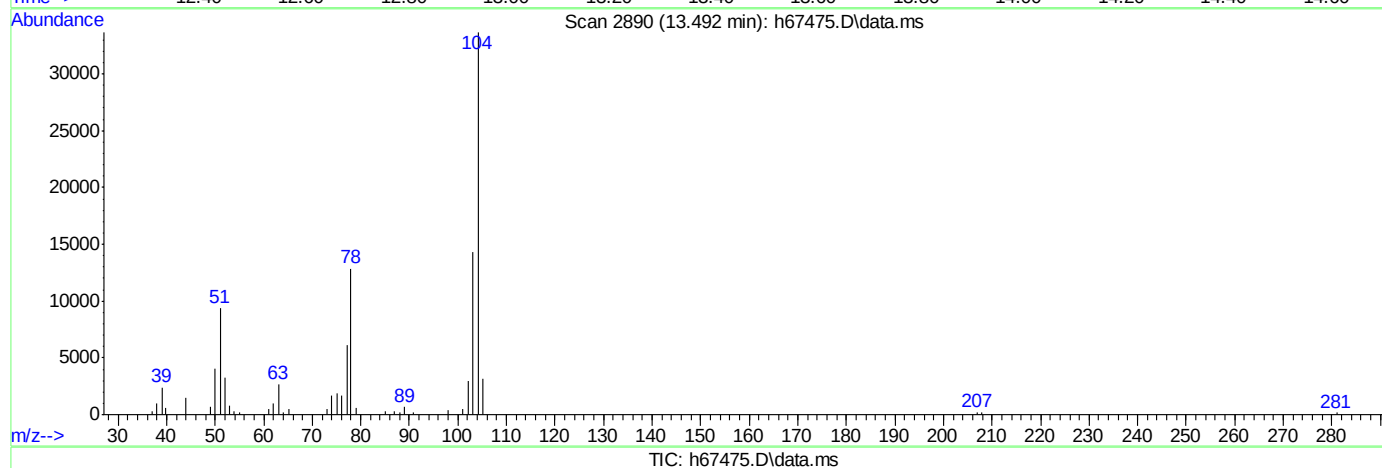
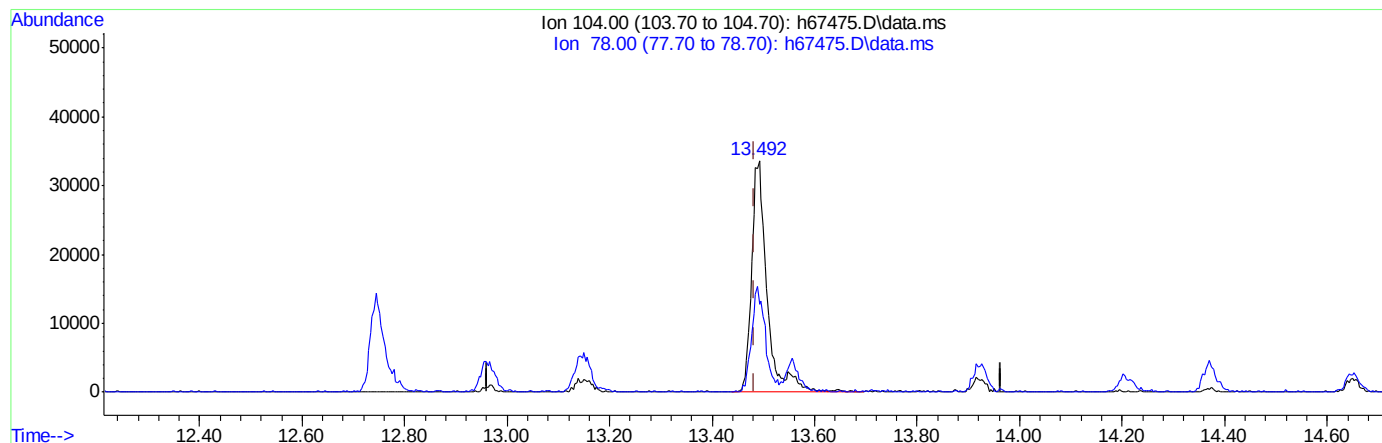
response 13534

Ion	Exp%	Act%
43.00	100	100
57.00	18.40	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\140716\
Data File : h67475.D
Acq On : 16 Jul 2014 2:24 pm
Operator : jaclynb
Sample : ic2244-5
Misc : ms32261,msh2244,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 17 10:16:36 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 10:16:09 2014
Response via : Initial Calibration



(77) styrene (p)

13.492min (+0.009) 7.34ug/L

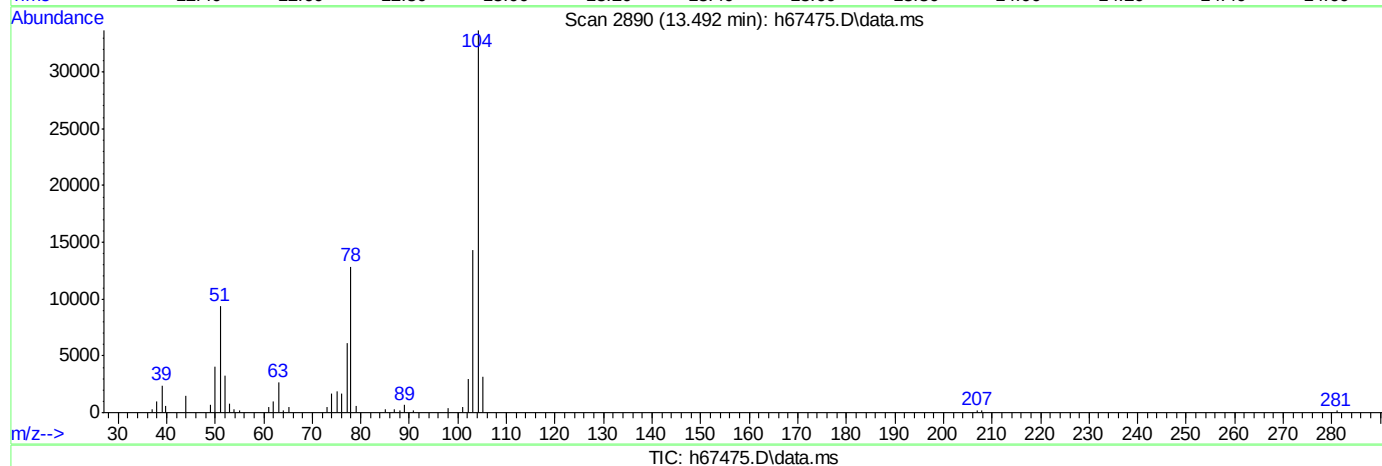
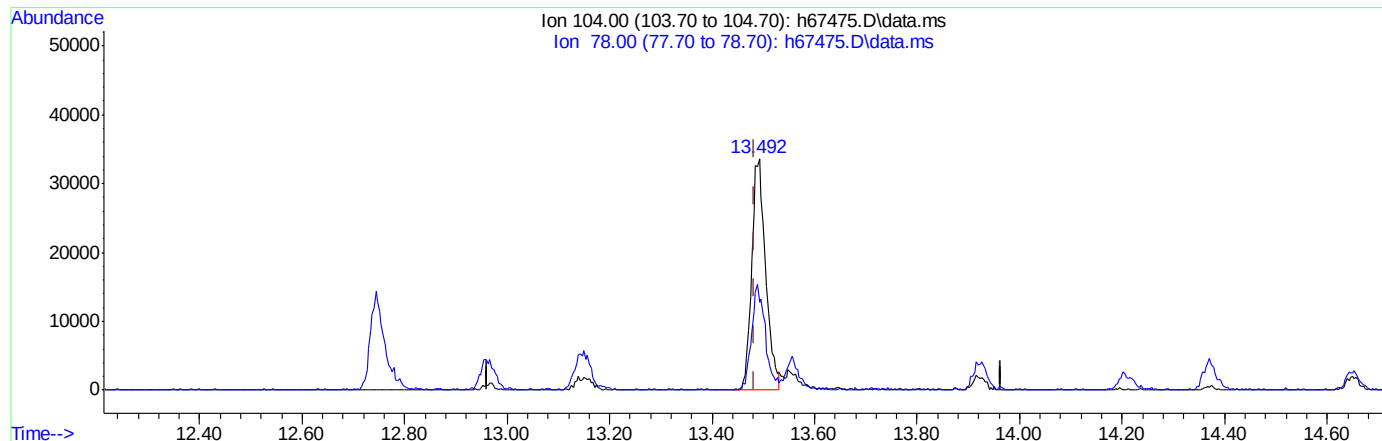
response 70207

Ion	Exp%	Act%
104.00	100	100
78.00	42.20	38.14
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\140716\
Data File : h67475.D
Acq On : 16 Jul 2014 2:24 pm
Operator : jaclynb
Sample : ic2244-5
Misc : ms32261,msh2244,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 17 10:16:36 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 10:16:09 2014
Response via : Initial Calibration



(77) styrene (p)

13.492min (+0.009) 6.63ug/L m

response 63386

Ion	Exp%	Act%
104.00	100	100
78.00	42.20	38.14
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\140716\
 Data File : h67476.D
 Acq On : 16 Jul 2014 2:52 pm
 Operator : jaclynb
 Sample : ic2244-10
 Misc : ms32261,msh2244,,,,5,1
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 17 10:30:32 2014
 Quant Method : C:\msdchem\1\METHODS\H140716W.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu Jul 17 10:16:09 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.205	65	131807	500.00	ug/L	0.00
4) pentafluorobenzene	8.626	168	416805	50.00	ug/L	0.00
42) 1,4-difluorobenzene	9.491	114	696383	50.00	ug/L	0.00
66) chlorobenzene-d5	12.744	82	371554	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.313	152	276789	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.266	113	42244	8.42	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	16.84%#		
60) toluene-d8 (s)	11.287	98	152920	9.43	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	18.86%#		
82) bromofluorobenzene (s)	13.979	95	61956	9.11	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	18.22%#		
Target Compounds						
					Qvalue	
2) tertiary butyl alcohol	6.290	59	32264m	93.13	ug/L	
3) Ethanol	5.126	45	31079	734.50	ug/L	98
5) dichlorodifluoromethane	4.039	85	31232	10.95	ug/L	83
7) vinyl chloride	4.515	62	37837	13.35	ug/L	98
8) bromomethane	4.967	96	31265	12.05	ug/L	93
9) chloroethane	5.115	64	29434	11.36	ug/L	85
10) acetonitrile	5.740	41	5424m	8.77	ug/L	
11) trichlorofluoromethane	5.715	101	68394	11.09	ug/L	98
12) freon-113	6.470	101	40767	11.48	ug/L	81
13) acrolein	5.722	56	18372	39.51	ug/L	90
14) 1,1-dichloroethene	6.283	96	41708	11.83	ug/L #	76
15) acetone	5.867	58	3292	9.19	ug/L #	38
16) ethyl ether	5.948	59	33603	10.32	ug/L	81
17) methyl acetate	6.477	43	30394	10.82	ug/L	78
18) methylene chloride	6.445	84	48956	12.03	ug/L	80
19) methyl tert butyl ether	7.215	73	109428	10.34	ug/L	85
21) allyl chloride	6.527	41	87502	11.65	ug/L	80
22) trans-1,2-dichloroethene	7.119	96	45177	11.40	ug/L #	76
23) iodomethane	6.361	142	59134	10.74	ug/L	84
25) propionitrile	7.483	54	3787m	7.11	ug/L	
26) vinyl acetate	7.476	43	76663	8.56	ug/L	94
27) chloroprene	7.733	53	86160	11.71	ug/L	90
28) di-isopropyl ether	7.779	45	171886	12.09	ug/L	75
29) methacrylonitrile	7.903	41	20704	8.14	ug/L	74
30) 2-butanone	7.804	72	3653	10.05	ug/L #	1
31) 1,1-dichloroethane	7.374	63	88362	11.23	ug/L	94
32) tert-butyl ethyl ether	8.168	59	144764	11.09	ug/L	92
33) Hexane	7.751	41	83345	13.31	ug/L #	84
34) isobutyl alcohol	8.168	43	21822m	50.83	ug/L	
35) 2,2-dichloropropane	8.224	77	68075	10.91	ug/L	91
36) cis-1,2-dichloroethene	7.942	96	49878	11.32	ug/L	93
37) ethyl acetate	8.097	43	23396	8.08	ug/L	88
38) bromochloromethane	8.097	128	23324	11.63	ug/L #	38
39) chloroform	8.139	83	82211	11.48	ug/L	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\140716\
 Data File : h67476.D
 Acq On : 16 Jul 2014 2:52 pm
 Operator : jaclynb
 Sample : ic2244-10
 Misc : ms32261,msh2244,,,,5,1
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 17 10:30:32 2014
 Quant Method : C:\msdchem\1\METHODS\H140716W.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu Jul 17 10:16:09 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,1,1-trichloroethane	8.894	97	71603	10.62	ug/L	95
43) cyclohexane	9.170	56	92675	12.01	ug/L #	63
44) carbon tetrachloride	9.251	117	55322	9.97	ug/L	94
45) 1,1-dichloropropene	9.071	75	61152	11.45	ug/L	89
46) benzene	9.290	78	179352	12.60	ug/L	99
47) tetrahydrofuran	8.485	42	13319	11.83	ug/L	79
48) 1,2-dichloroethane	8.792	62	66694	10.60	ug/L	100
49) tert-amyl methyl ether	9.417	73	102256	10.33	ug/L	90
50) heptane	9.773	43	79331	12.55	ug/L	82
51) trichloroethene	9.907	95	50808	12.35	ug/L #	73
52) 1,2-dichloropropane	9.875	63	49678	12.34	ug/L	100
53) dibromomethane	9.851	93	28340	11.61	ug/L	87
54) bromodichloromethane	9.964	83	59224	9.76	ug/L	98
55) methylcyclohexane	10.426	83	76440	11.95	ug/L #	76
56) 2-chloroethyl vinyl ether	10.355	63	18305	8.36	ug/L	88
57) methyl methacrylate	10.077	69	22098	9.53	ug/L	93
58) 1,4-dioxane	10.077	88	1355m	40.30	ug/L	
59) cis-1,3-dichloropropene	10.585	75	68984	10.25	ug/L	89
61) 4-methyl-2-pentanone	10.687	43	39807	9.60	ug/L	94
62) toluene	11.361	92	114118	12.65	ug/L	93
63) trans-1,3-dichloropropene	11.012	75	59877	9.45	ug/L	96
64) 1,1,2-trichloroethane	11.174	83	32505	11.27	ug/L	88
65) ethyl methacrylate	11.396	69	45251	10.70	ug/L #	63
67) tetrachloroethene	12.102	166	43951	14.22	ug/L	99
68) 1,3-dichloropropane	11.410	76	62964	13.67	ug/L	93
69) dibromochloromethane	11.696	129	37578	10.34	ug/L	96
70) 1,2-dibromoethane	11.947	107	37658	12.13	ug/L	98
71) 2-hexanone	11.569	43	21973	9.23	ug/L	93
72) chlorobenzene	12.780	112	122271	14.05	ug/L	91
73) 1,1,1,2-tetrachloroethane	12.698	131	39460	12.60	ug/L	92
74) ethylbenzene	12.960	91	218433	14.37	ug/L	97
75) m,p-xylene	13.143	106	168576	33.38	ug/L	99
77) styrene	13.482	104	123436m	12.88	ug/L	
78) bromoform	13.305	173	18850	8.54	ug/L	98
79) trans-1,4-dichloro-2-b...	13.715	53	9153	8.10	ug/L #	55
81) isopropylbenzene	13.919	105	216339	12.90	ug/L	97
83) bromobenzene	14.202	156	45300	11.24	ug/L #	71
84) 1,1,2,2-tetrachloroethane	13.560	83	46127	13.92	ug/L	90
85) 1,2,3-trichloropropane	13.715	75	44950	10.04	ug/L	92
86) n-propylbenzene	14.368	91	233161	11.94	ug/L	94
87) 2-chlorotoluene	14.481	91	155477	12.24	ug/L	87
88) 4-chlorotoluene	14.558	91	155600	11.63	ug/L	84
89) 1,3,5-trimethylbenzene	14.650	105	184466	12.36	ug/L	100
90) tert-butylbenzene	14.950	91	113670	12.66	ug/L	85
91) 1,2,4-trimethylbenzene	15.056	105	171981	11.78	ug/L	92
92) sec-butylbenzene	15.172	105	232199	12.62	ug/L	95
93) 1,3-dichlorobenzene	15.275	146	85527	10.92	ug/L	91
94) p-isopropyltoluene	15.349	119	178797	13.30	ug/L	94
95) 1,4-dichlorobenzene	15.342	146	87649	13.05	ug/L	95
96) 1,2-dichlorobenzene	15.709	146	83636	11.25	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\140716\
Data File : h67476.D
Acq On : 16 Jul 2014 2:52 pm
Operator : jaclynb
Sample : ic2244-10
Misc : ms32261,msh2244,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 17 10:30:32 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 10:16:09 2014
Response via : Initial Calibration

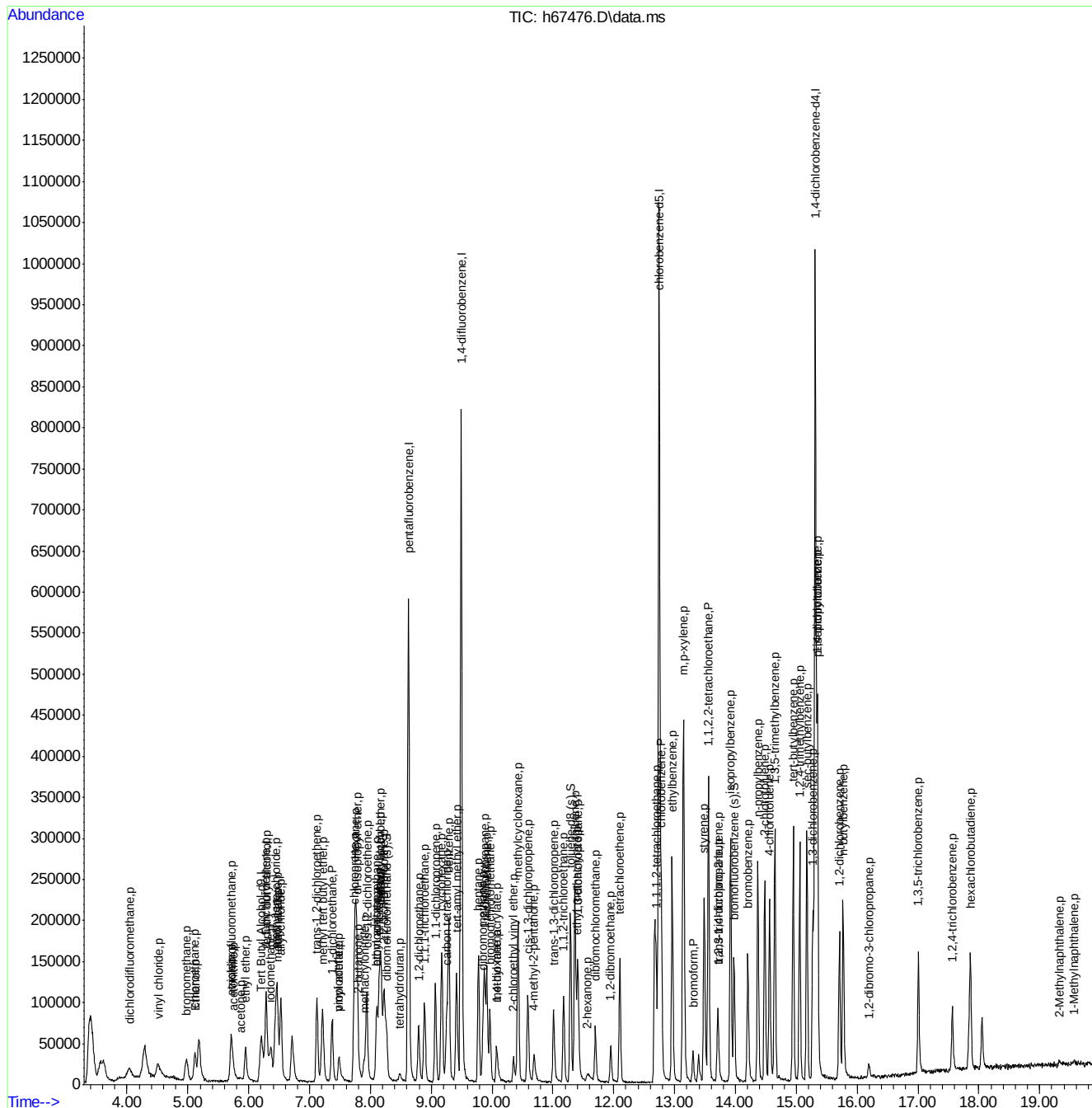
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	n-butylbenzene	15.769	91	151069	10.48	ug/L	89
98)	1,2-dibromo-3-chloropr...	16.192	75	5967	8.16	ug/L	79
99)	1,3,5-trichlorobenzene	17.007	180	49499	9.59	ug/L	97
100)	1,2,4-trichlorobenzene	17.565	180	27902	6.39	ug/L	95
101)	hexachlorobutadiene	17.865	225	26762	10.97	ug/L	91
104)	2-Methylnaphthalene	19.322	142	3421m	1.44	ug/L	
105)	1-Methylnaphthalene	19.566	TIC	27625	4.18	ug/L #	87

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

Quantitation Report (QT Reviewed)

```
Data Path   : C:\msdchem\1\DATA\140716\
Data File  : h67476.D
Acq On     : 16 Jul 2014    2:52 pm
Operator   : jaclynb
Sample     : ic2244-10
Misc       : ms32261,msh2244,,,,5,1
ALS Vial   : 6      Sample Multiplier: 1
```

Quant Time: Jul 17 10:30:32 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 10:16:09 2014
Response via : Initial Calibration



H140716W.M Thu Jul 17 17:30:09 2014

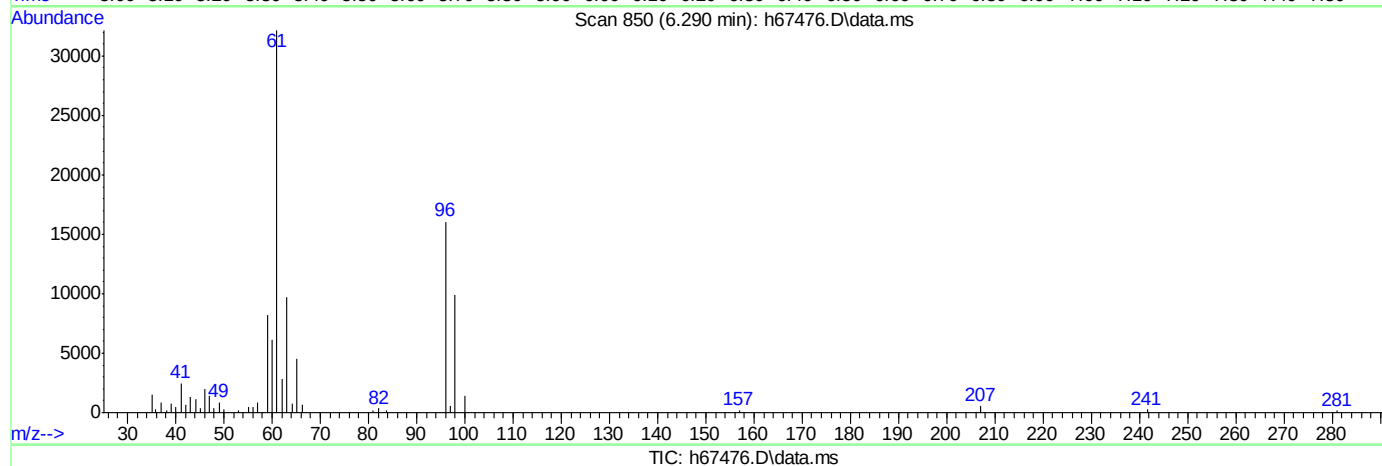
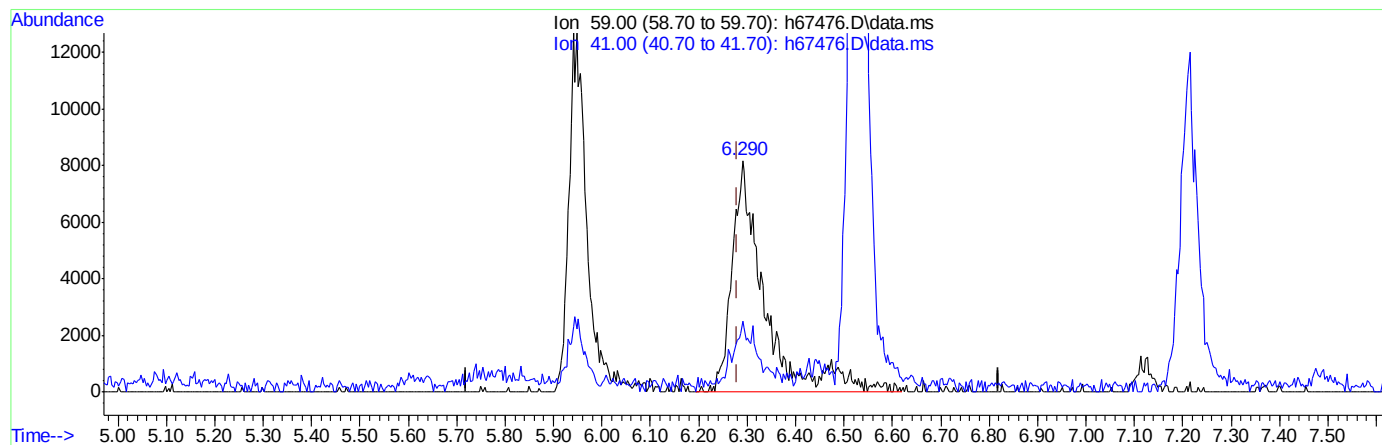
Page: 4

7.6.5

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\140716\
Data File : h67476.D
Acq On : 16 Jul 2014 2:52 pm
Operator : jaclynb
Sample : ic2244-10
Misc : ms32261,msh2244,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 17 10:16:38 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 10:16:09 2014
Response via : Initial Calibration



(2) tertiary butyl alcohol (p)

6.290min (+0.009) 110.07ug/L

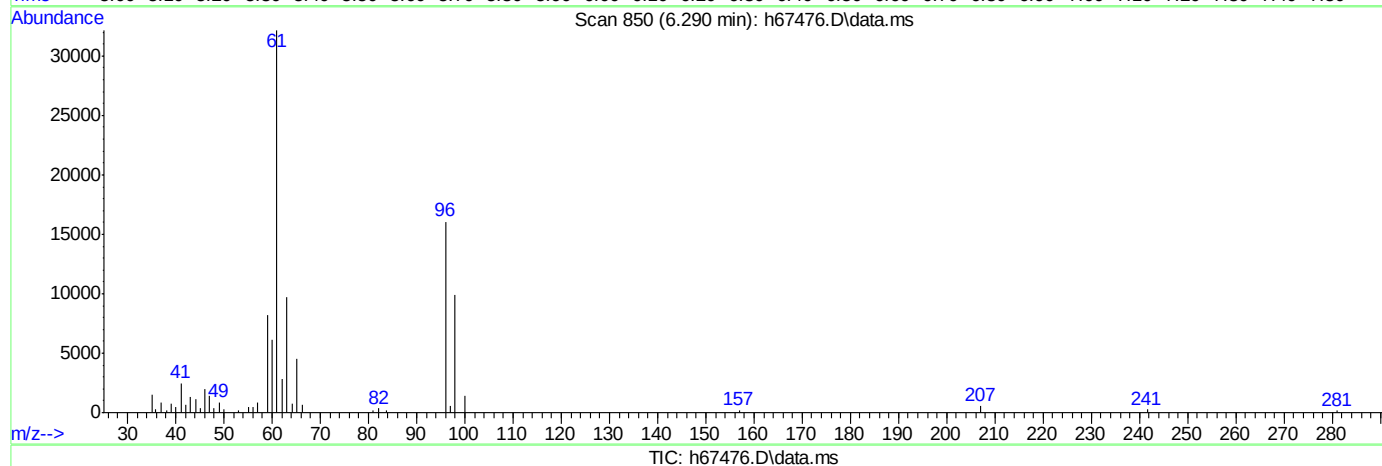
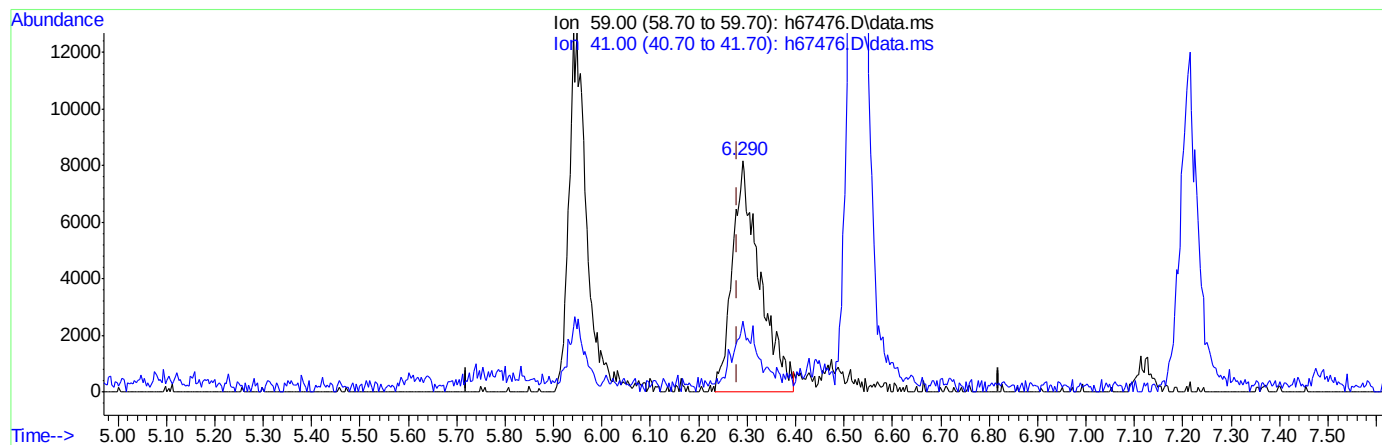
response 38131

Ion	Exp%	Act%
59.00	100	100
41.00	27.40	30.50
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\140716\
Data File : h67476.D
Acq On : 16 Jul 2014 2:52 pm
Operator : jaclynb
Sample : ic2244-10
Misc : ms32261,msh2244,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 17 10:16:38 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 10:16:09 2014
Response via : Initial Calibration



(2) tertiary butyl alcohol (p)

6.290min (+0.009) 93.13ug/L m

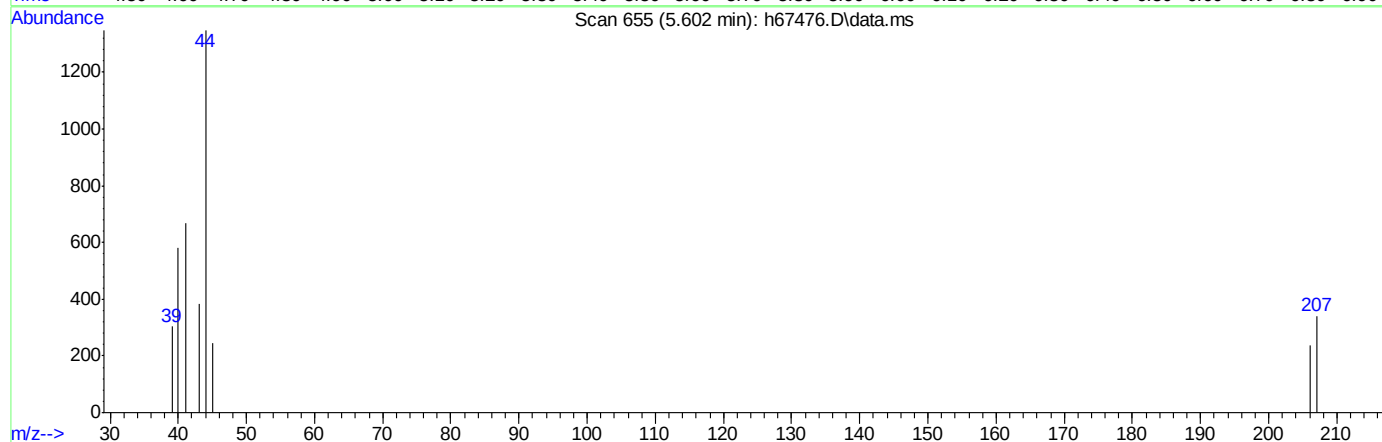
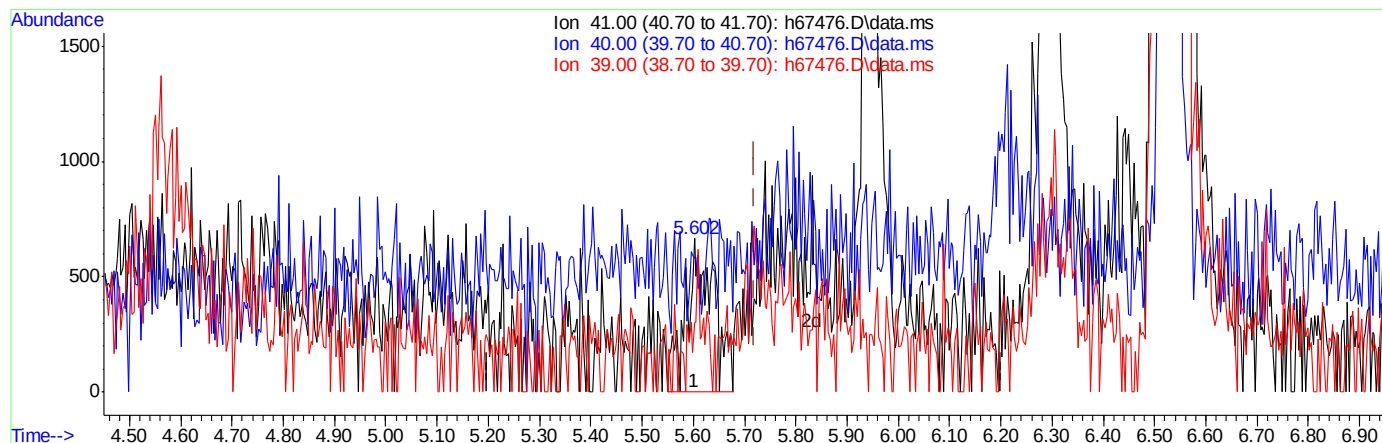
response 32264

Ion	Exp%	Act%
59.00	100	100
41.00	27.40	30.50
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\140716\
Data File : h67476.D
Acq On : 16 Jul 2014 2:52 pm
Operator : jaclynb
Sample : ic2244-10
Misc : ms32261,msh2244,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 17 10:16:38 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 10:16:09 2014
Response via : Initial Calibration



TIC: h67476.D\data.ms

(10) acetonitrile (p)

5.602min (-0.118) 4.14ug/L

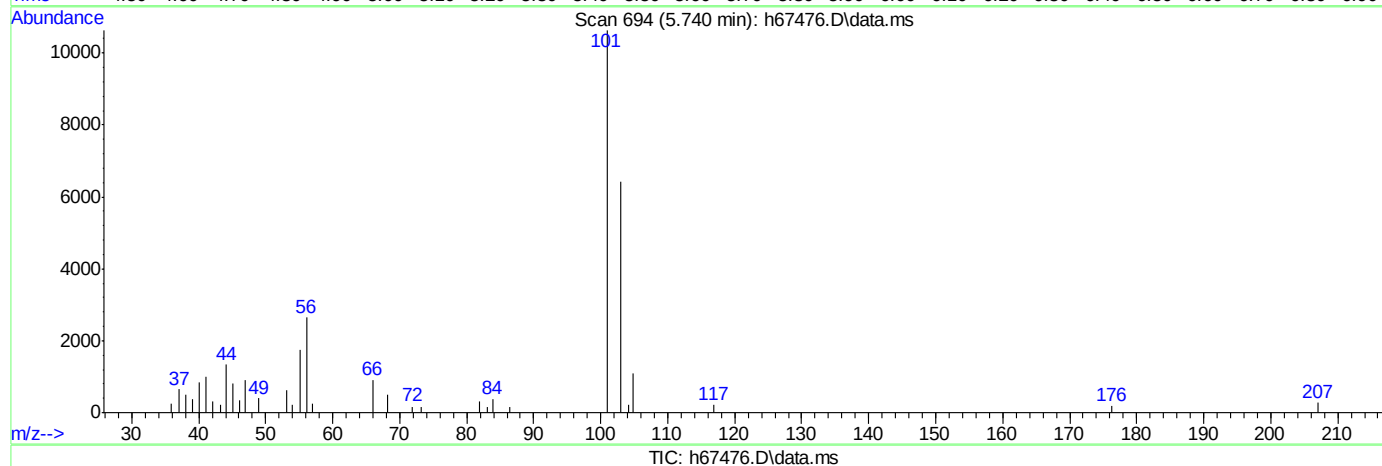
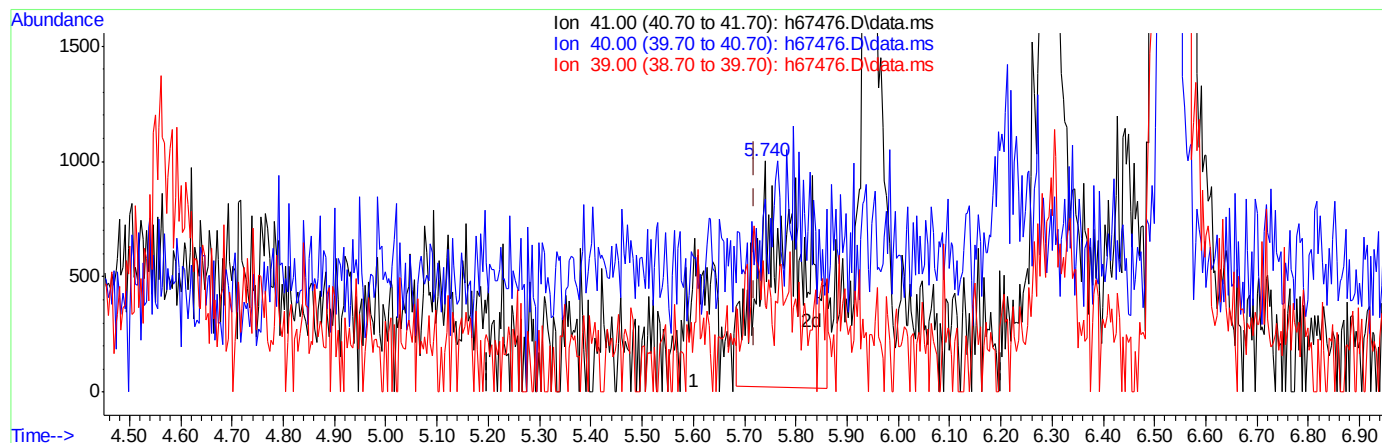
response 2558

Ion	Exp%	Act%
41.00	100	100
40.00	22.50	35.08
39.00	56.70	45.58
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\140716\
Data File : h67476.D
Acq On : 16 Jul 2014 2:52 pm
Operator : jaclynb
Sample : ic2244-10
Misc : ms32261,msh2244,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 17 10:16:38 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 10:16:09 2014
Response via : Initial Calibration



(10) acetonitrile (p)

5.740min (+0.020) 8.77ug/L m

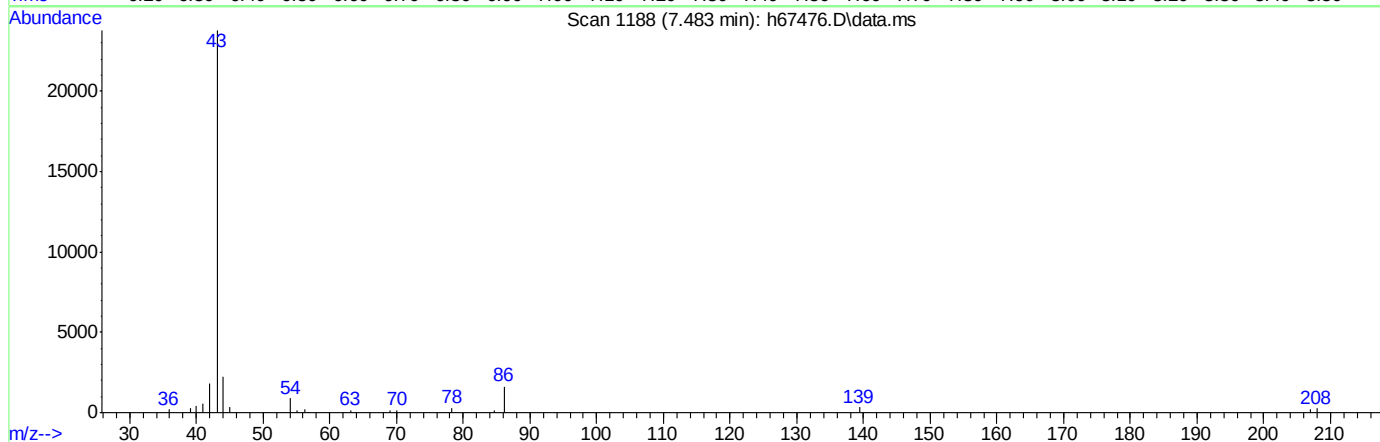
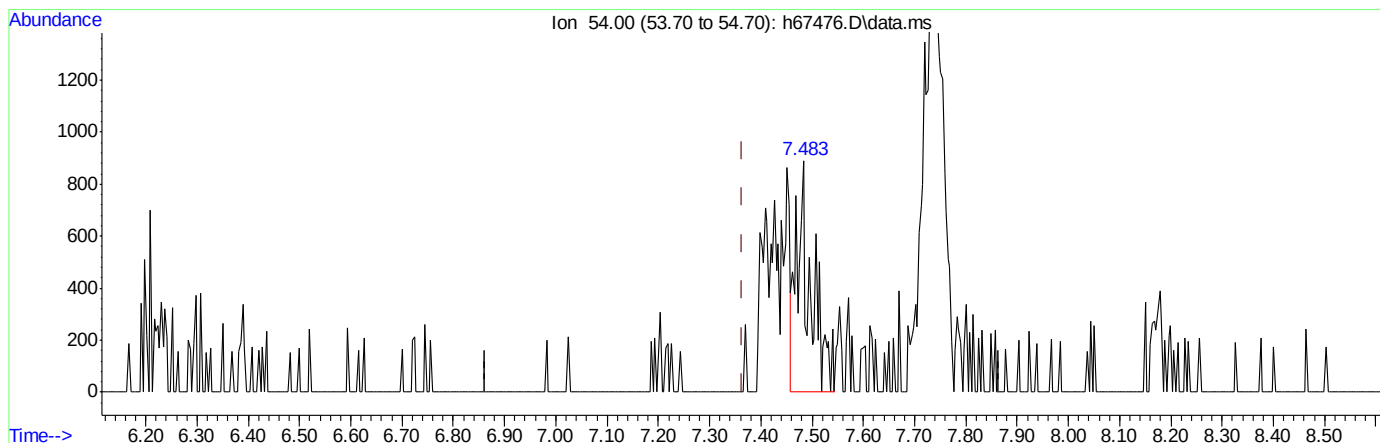
response 5424

Ion	Exp%	Act%
41.00	100	100
40.00	22.50	83.33#
39.00	56.70	37.72
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\140716\
Data File : h67476.D
Acq On : 16 Jul 2014 2:52 pm
Operator : jaclynb
Sample : ic2244-10
Misc : ms32261,msh2244,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 17 10:16:38 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 10:16:09 2014
Response via : Initial Calibration



TIC: h67476.D\data.ms

(25) propionitrile (p)

7.483min (+0.119) 3.18ug/L

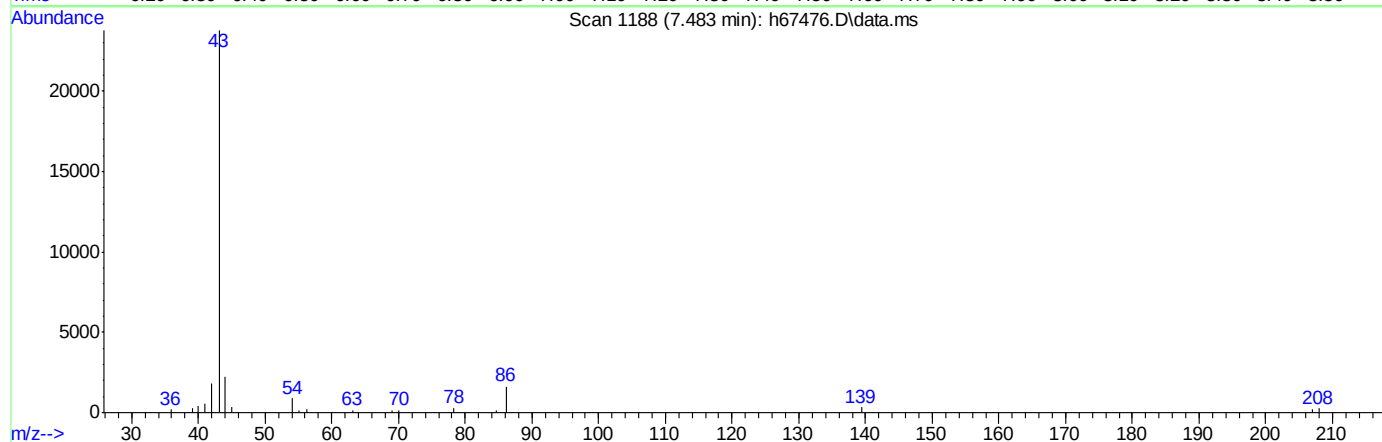
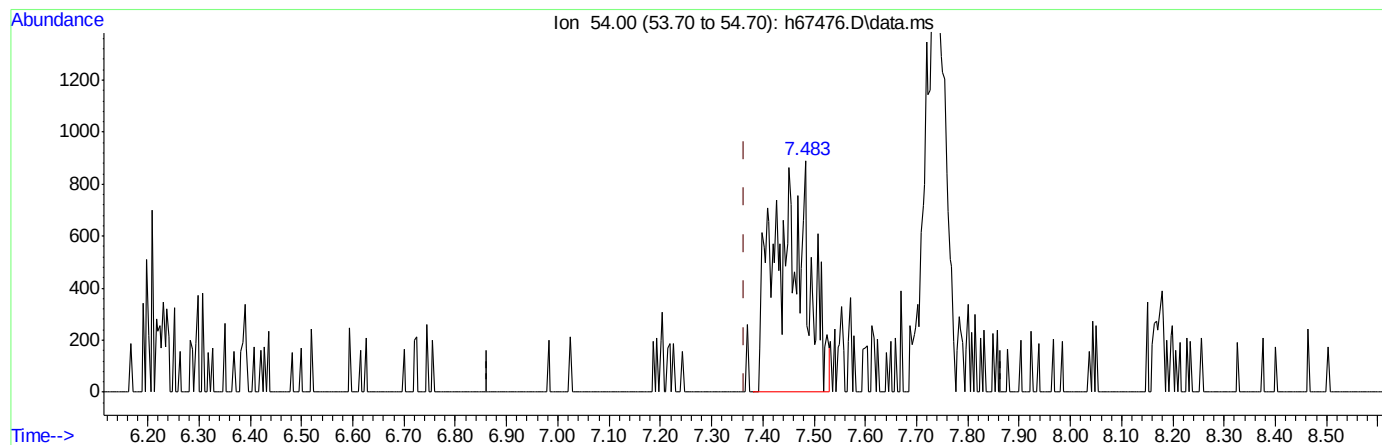
response 1695

Ion	Exp%	Act%
54.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\140716\
Data File : h67476.D
Acq On : 16 Jul 2014 2:52 pm
Operator : jaclynb
Sample : ic2244-10
Misc : ms32261,msh2244,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 17 10:16:38 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 10:16:09 2014
Response via : Initial Calibration



TIC: h67476.D\data.ms

(25) propionitrile (p)

7.483min (+0.119) 7.11ug/L m

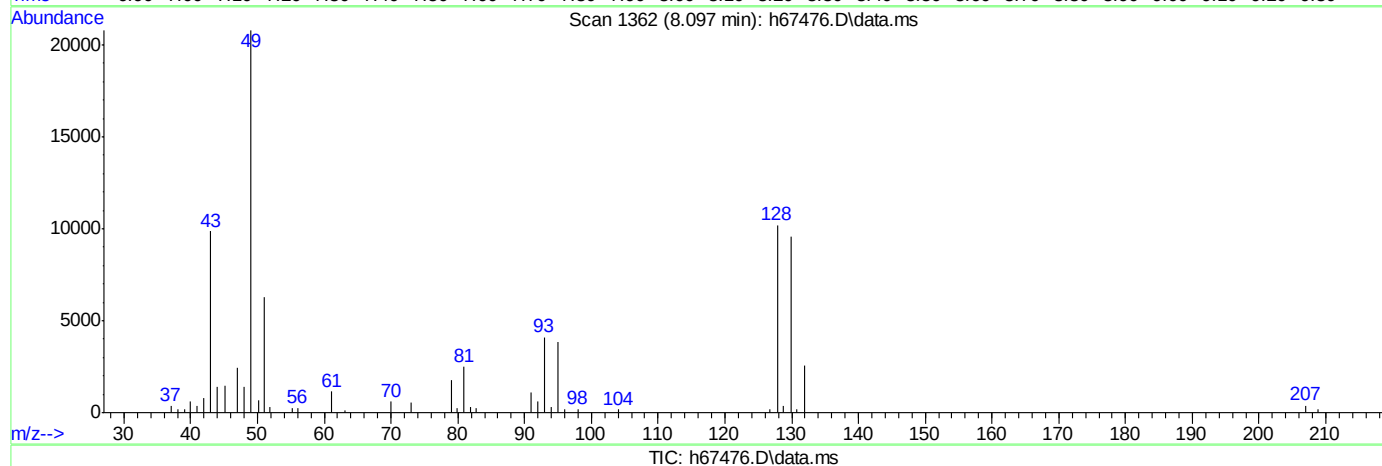
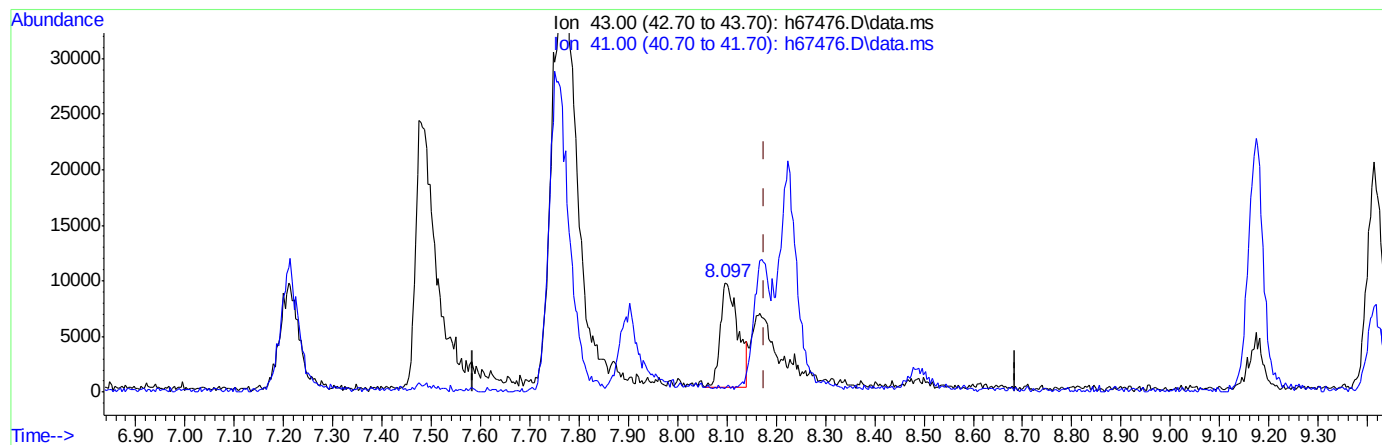
response 3787

Ion	Exp%	Act%
54.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\140716\
Data File : h67476.D
Acq On : 16 Jul 2014 2:52 pm
Operator : jaclynb
Sample : ic2244-10
Misc : ms32261,msh2244,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 17 10:16:38 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 10:16:09 2014
Response via : Initial Calibration



(34) isobutyl alcohol (p)

8.097min (-0.079) 54.50ug/L

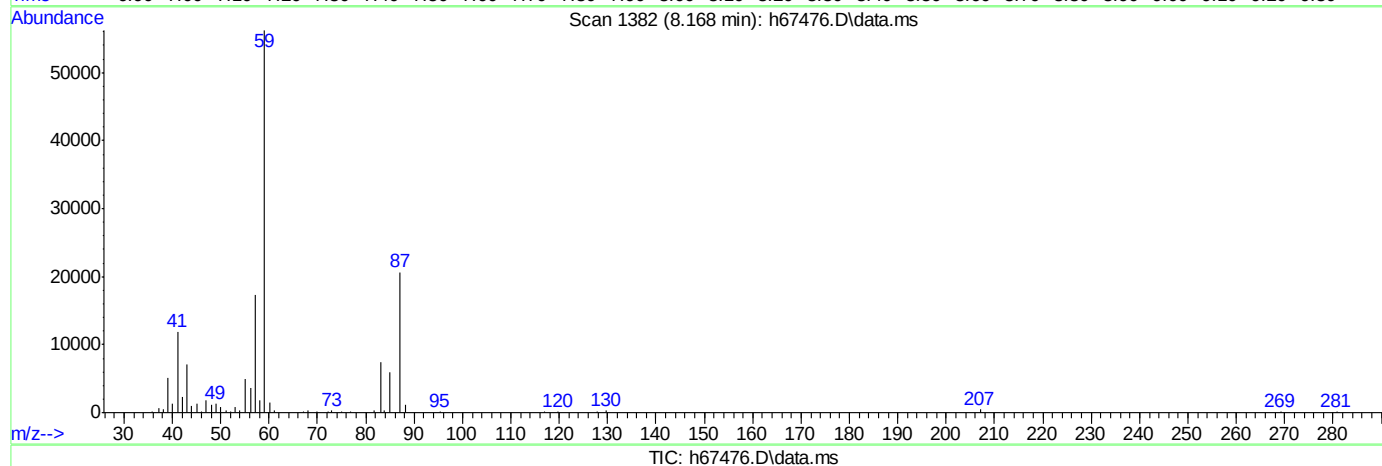
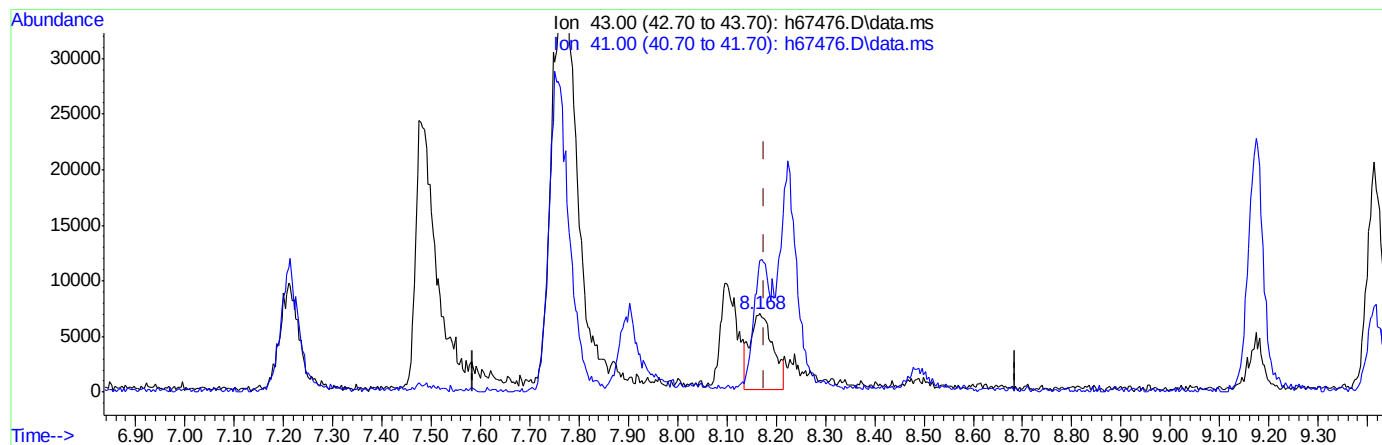
response 23396

Ion	Exp%	Act%
43.00	100	100
41.00	145.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\140716\
Data File : h67476.D
Acq On : 16 Jul 2014 2:52 pm
Operator : jaclynb
Sample : ic2244-10
Misc : ms32261,msh2244,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 17 10:16:38 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 10:16:09 2014
Response via : Initial Calibration



(34) isobutyl alcohol (p)

8.168min (-0.008) 50.83ug/L m

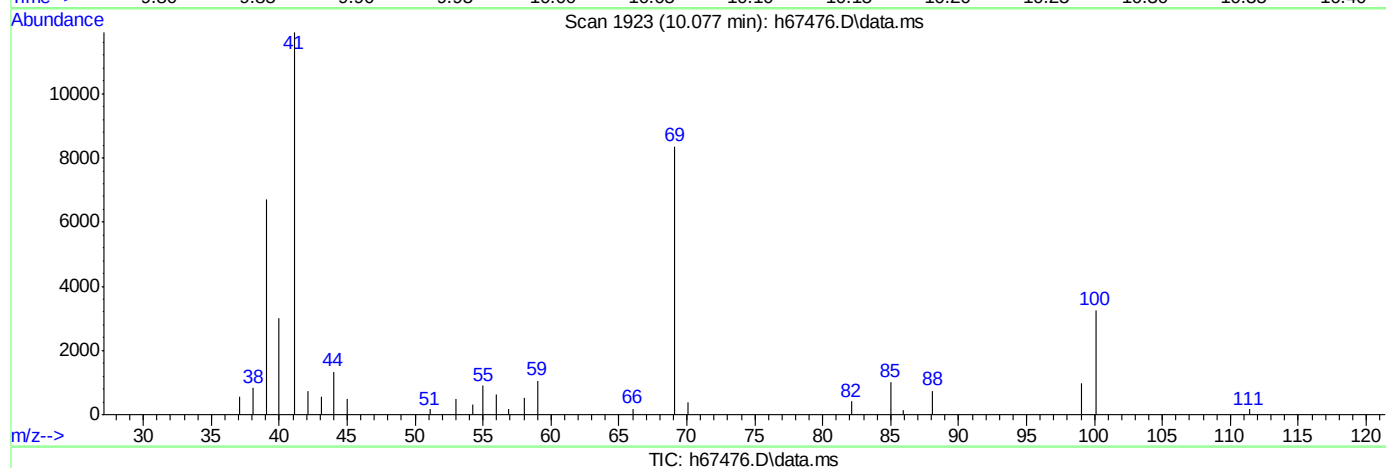
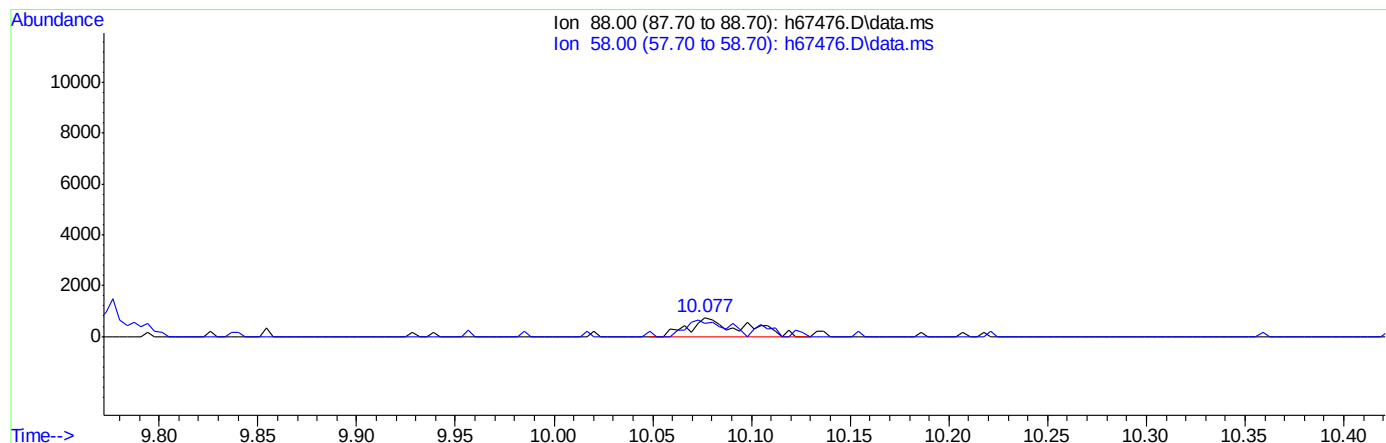
response 21822

Ion	Exp%	Act%
43.00	100	100
41.00	145.60	166.94
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\140716\
Data File : h67476.D
Acq On : 16 Jul 2014 2:52 pm
Operator : jaclynb
Sample : ic2244-10
Misc : ms32261,msh2244,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 17 10:16:38 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 10:16:09 2014
Response via : Initial Calibration



(58) 1,4-dioxane (p)

10.077min (+0.023) 40.30ug/L m

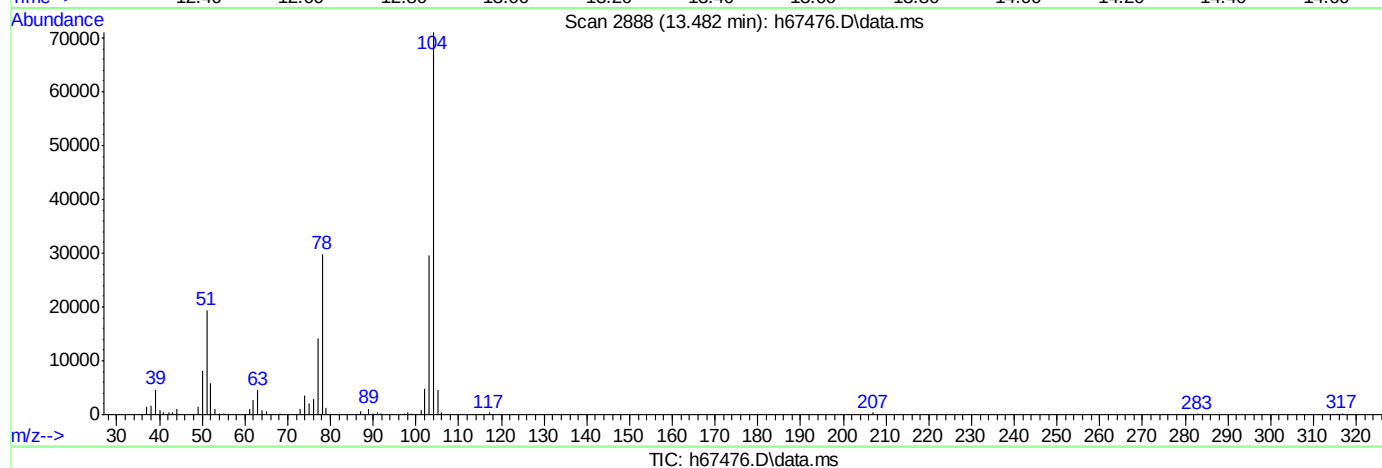
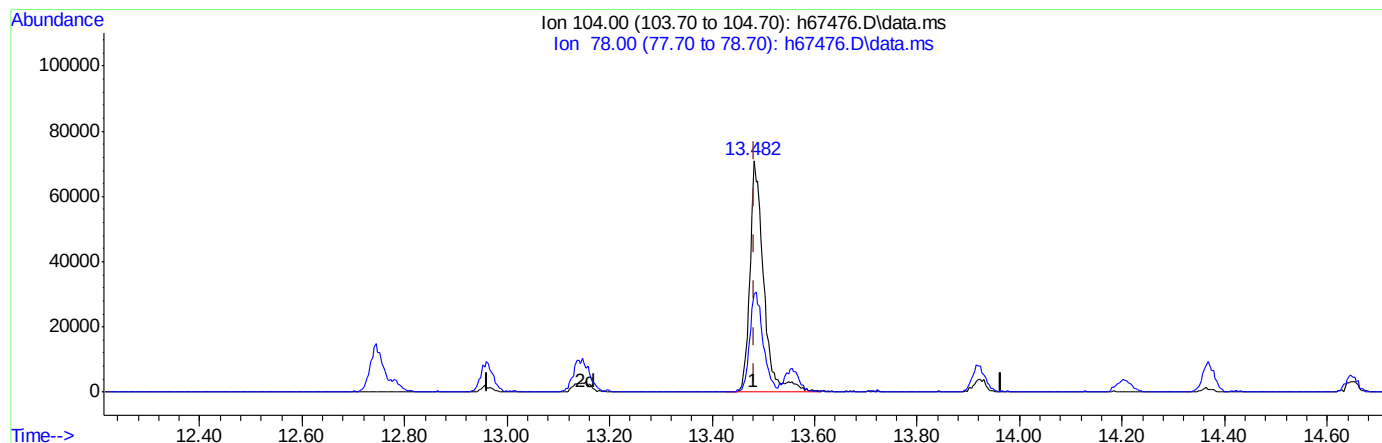
response 1355

Ion	Exp%	Act%
88.00	100	100
58.00	90.10	69.31
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\140716\
Data File : h67476.D
Acq On : 16 Jul 2014 2:52 pm
Operator : jaclynb
Sample : ic2244-10
Misc : ms32261,msh2244,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 17 10:16:38 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 10:16:09 2014
Response via : Initial Calibration



(77) styrene (p)

13.482min (-0.001) 13.83ug/L

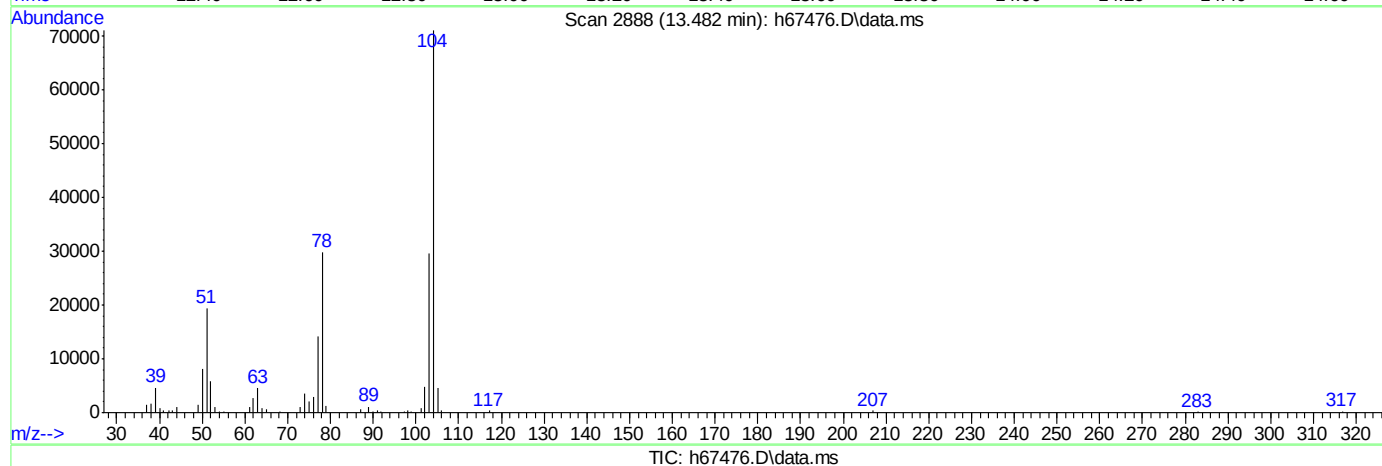
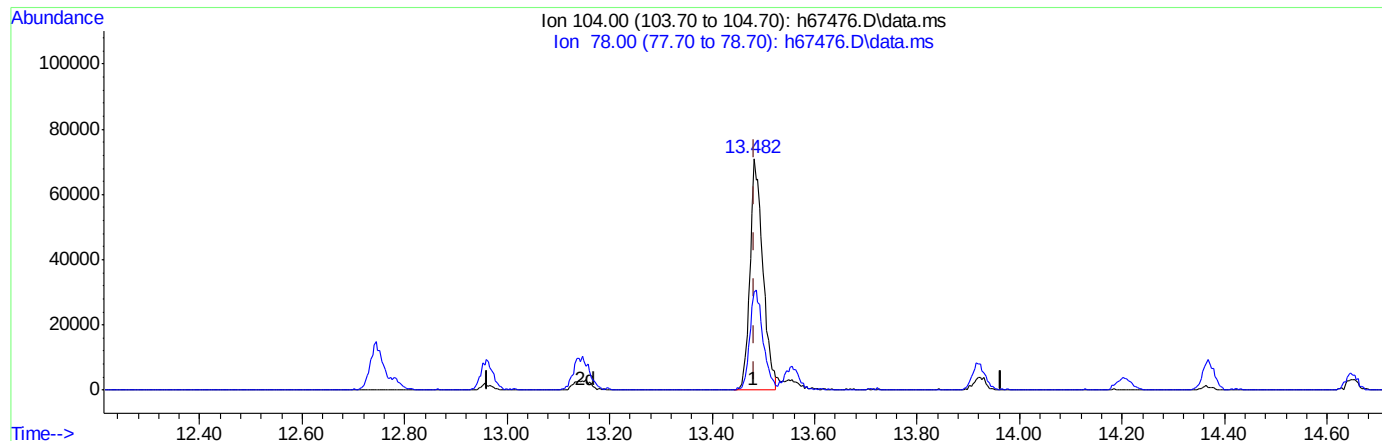
response 132512

Ion	Exp%	Act%
104.00	100	100
78.00	42.20	42.05
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\140716\
Data File : h67476.D
Acq On : 16 Jul 2014 2:52 pm
Operator : jaclynb
Sample : ic2244-10
Misc : ms32261,msh2244,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 17 10:16:38 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 10:16:09 2014
Response via : Initial Calibration



(77) styrene (p)

13.482min (-0.001) 12.88ug/L m

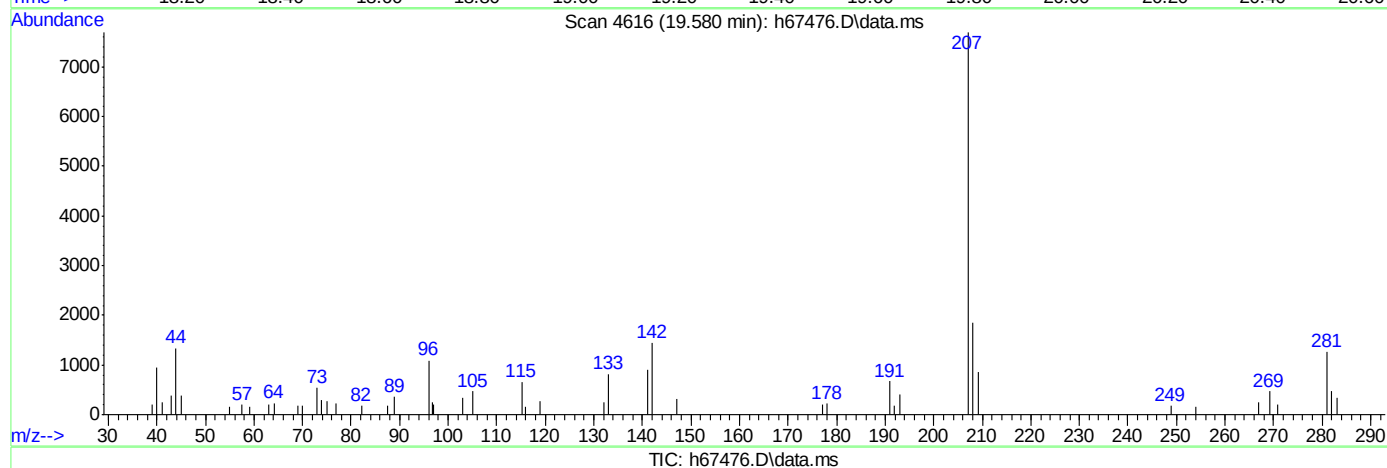
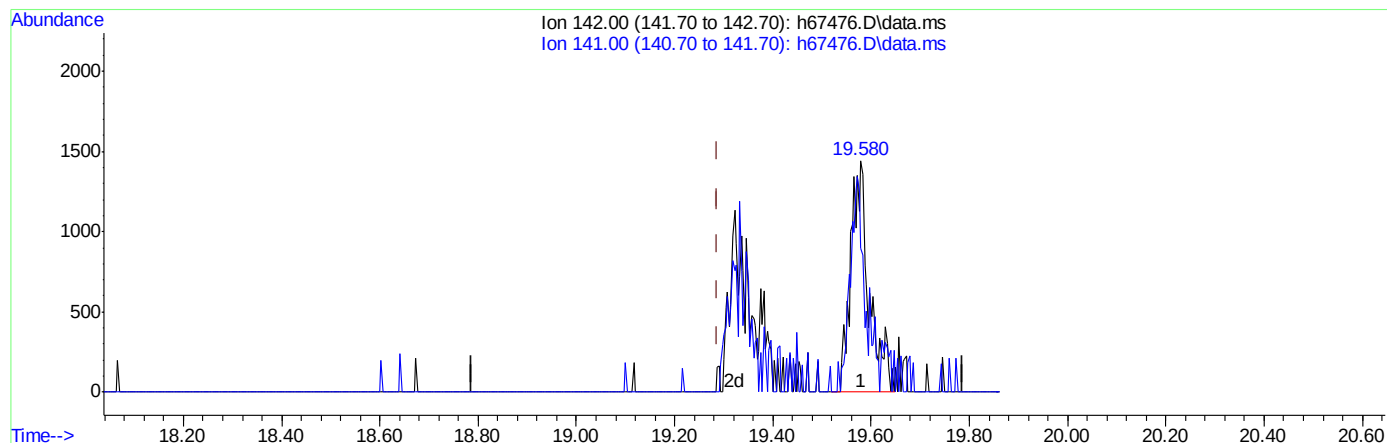
response 123436

Ion	Exp%	Act%
104.00	100	100
78.00	42.20	42.05
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\140716\
Data File : h67476.D
Acq On : 16 Jul 2014 2:52 pm
Operator : jaclynb
Sample : ic2244-10
Misc : ms32261,msh2244,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 17 10:16:38 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 10:16:09 2014
Response via : Initial Calibration



(104) 2-Methylnaphthalene (p)

19.580min (+0.291) 1.57ug/L

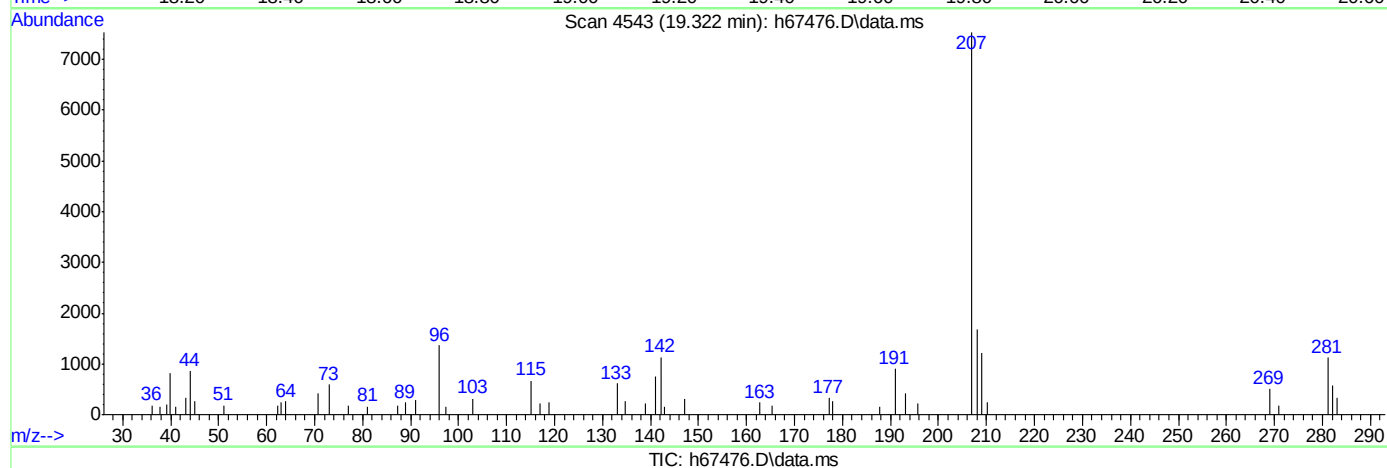
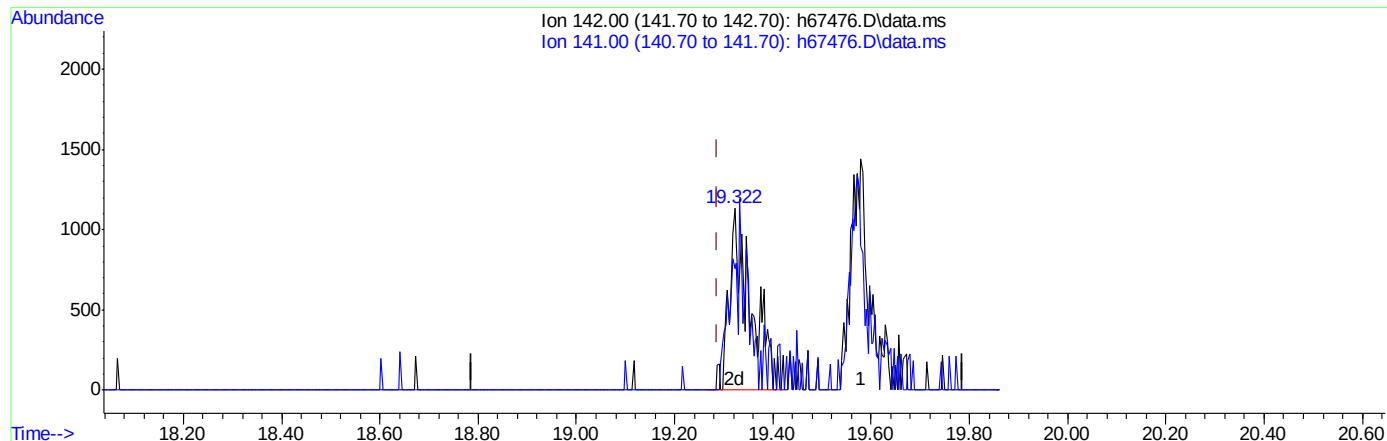
response 3734

Ion	Exp%	Act%
142.00	100	100
141.00	91.90	90.65
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\140716\
Data File : h67476.D
Acq On : 16 Jul 2014 2:52 pm
Operator : jaclynb
Sample : ic2244-10
Misc : ms32261,msh2244,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 17 10:16:38 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 10:16:09 2014
Response via : Initial Calibration



(104) 2-Methylnaphthalene (p)

19.322min (+0.034) 1.44ug/L m

response 3421

Ion	Exp%	Act%
142.00	100	100
141.00	91.90	98.95
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\140716\
 Data File : h67477.D
 Acq On : 16 Jul 2014 3:20 pm
 Operator : jaclynb
 Sample : ic2244-25
 Misc : ms32261,msh2244,,,,5,1
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 17 10:31:07 2014
 Quant Method : C:\msdchem\1\METHODS\H140716W.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu Jul 17 10:16:09 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.204	65	127133	500.00	ug/L	0.00
4) pentafluorobenzene	8.629	168	414254	50.00	ug/L	0.00
42) 1,4-difluorobenzene	9.490	114	700467	50.00	ug/L	0.00
66) chlorobenzene-d5	12.743	82	378267	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.312	152	290265	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.265	113	99411	19.94	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	39.88%#		
60) toluene-d8 (s)	11.289	98	368250	22.57	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	45.14%#		
82) bromofluorobenzene (s)	13.971	95	150577	21.12	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	42.24%#		
Target Compounds						
					Qvalue	
2) tertiary butyl alcohol	6.286	59	89257	267.12	ug/L	85
3) Ethanol	5.103	45	92232	2259.87	ug/L	99
5) dichlorodifluoromethane	4.034	85	76769	27.08	ug/L	94
7) vinyl chloride	4.503	62	91668	32.55	ug/L	87
8) bromomethane	4.969	96	74646	28.94	ug/L	99
9) chloroethane	5.117	64	75088	29.16	ug/L	96
10) acetonitrile	5.742	41	12755m	20.75	ug/L	
11) trichlorofluoromethane	5.710	101	166160	27.11	ug/L	99
12) freon-113	6.465	101	109972	31.15	ug/L	88
13) acrolein	5.703	56	52035	112.60	ug/L	100
14) 1,1-dichloroethene	6.286	96	107874	30.79	ug/L #	80
15) acetone	5.859	58	9359	26.27	ug/L #	57
16) ethyl ether	5.940	59	91183	28.17	ug/L	72
17) methyl acetate	6.465	43	79883	28.60	ug/L	85
18) methylene chloride	6.437	84	126593	31.31	ug/L #	72
19) methyl tert butyl ether	7.207	73	288758	27.46	ug/L	84
21) allyl chloride	6.525	41	228683	30.65	ug/L	85
22) trans-1,2-dichloroethene	7.118	96	119085	30.23	ug/L #	81
23) iodomethane	6.370	142	159416	29.13	ug/L	89
25) propionitrile	7.408	54	11909	22.51	ug/L	100
26) vinyl acetate	7.475	43	216663	24.34	ug/L	94
27) chloroprene	7.732	53	233729	31.96	ug/L	93
28) di-isopropyl ether	7.775	45	454059	32.14	ug/L	87
29) methacrylonitrile	7.888	41	64351	25.45	ug/L	96
30) 2-butanone	7.782	72	10435	28.89	ug/L #	1
31) 1,1-dichloroethane	7.369	63	233567	29.86	ug/L	95
32) tert-butyl ethyl ether	8.170	59	384456	29.63	ug/L	89
33) Hexane	7.750	41	212135	34.08	ug/L #	80
34) isobutyl alcohol	8.170	43	69046	161.83	ug/L	80
35) 2,2-dichloropropane	8.223	77	183187	29.53	ug/L	97
36) cis-1,2-dichloroethene	7.941	96	130577	29.82	ug/L	83
37) ethyl acetate	8.092	43	65616	22.80	ug/L	86
38) bromochloromethane	8.103	128	61675	30.94	ug/L #	55
39) chloroform	8.142	83	216959	30.47	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\140716\
 Data File : h67477.D
 Acq On : 16 Jul 2014 3:20 pm
 Operator : jaclynb
 Sample : ic2244-25
 Misc : ms32261,msh2244,,,,5,1
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 17 10:31:07 2014
 Quant Method : C:\msdchem\1\METHODS\H140716W.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu Jul 17 10:16:09 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,1,1-trichloroethane	8.886	97	187031	27.92	ug/L	93
43) cyclohexane	9.169	56	240720	31.02	ug/L #	69
44) carbon tetrachloride	9.253	117	150198	26.91	ug/L	96
45) 1,1-dichloropropene	9.066	75	166416	30.98	ug/L	95
46) benzene	9.285	78	470595	32.88	ug/L	97
47) tetrahydrofuran	8.477	42	28676	25.31	ug/L	80
48) 1,2-dichloroethane	8.791	62	174628	27.59	ug/L	100
49) tert-amyl methyl ether	9.412	73	292899	29.42	ug/L	87
50) heptane	9.776	43	206174	32.42	ug/L	89
51) trichloroethene	9.910	95	135599	32.76	ug/L	78
52) 1,2-dichloropropane	9.874	63	133220	32.90	ug/L	93
53) dibromomethane	9.850	93	73944	30.12	ug/L	92
54) bromodichloromethane	9.963	83	167364	27.43	ug/L	92
55) methylcyclohexane	10.425	83	204408	31.78	ug/L #	80
56) 2-chloroethyl vinyl ether	10.347	63	49821	22.63	ug/L	87
57) methyl methacrylate	10.068	69	61148	26.23	ug/L	88
58) 1,4-dioxane	10.072	88	4130	122.13	ug/L	93
59) cis-1,3-dichloropropene	10.584	75	193041	28.53	ug/L	90
61) 4-methyl-2-pentanone	10.682	43	109413	26.24	ug/L	95
62) toluene	11.360	92	301350	33.20	ug/L	96
63) trans-1,3-dichloropropene	11.007	75	168574	26.46	ug/L	96
64) 1,1,2-trichloroethane	11.176	83	86388	29.77	ug/L	90
65) ethyl methacrylate	11.388	69	125064	29.41	ug/L	93
67) tetrachloroethene	12.101	166	120454	38.28	ug/L	97
68) 1,3-dichloropropane	11.409	76	167240	35.68	ug/L	95
69) dibromochloromethane	11.695	129	105354	28.48	ug/L	98
70) 1,2-dibromoethane	11.949	107	100155	31.70	ug/L	96
71) 2-hexanone	11.543	43	62369	25.73	ug/L	100
72) chlorobenzene	12.779	112	333482	37.65	ug/L	89
73) 1,1,1,2-tetrachloroethane	12.697	131	108456	34.01	ug/L	90
74) ethylbenzene	12.958	91	586960	37.94	ug/L	96
75) m,p-xylene	13.146	106	445520	86.65	ug/L	93
77) styrene	13.481	104	361848	37.09	ug/L	91
78) bromoform	13.301	173	56699	25.23	ug/L	94
79) trans-1,4-dichloro-2-b...	13.710	53	29900	25.99	ug/L #	65
81) isopropylbenzene	13.922	105	571595	32.51	ug/L	97
83) bromobenzene	14.201	156	125124	29.60	ug/L #	67
84) 1,1,2,2-tetrachloroethane	13.558	83	122739	35.33	ug/L	95
85) 1,2,3-trichloropropane	13.710	75	128861	27.46	ug/L	92
86) n-propylbenzene	14.366	91	641688	31.32	ug/L	93
87) 2-chlorotoluene	14.479	91	427258	32.09	ug/L	84
88) 4-chlorotoluene	14.557	91	432318	30.81	ug/L	86
89) 1,3,5-trimethylbenzene	14.645	105	504428	32.24	ug/L	95
90) tert-butylbenzene	14.949	91	299201	31.78	ug/L	86
91) 1,2,4-trimethylbenzene	15.055	105	479661	31.34	ug/L	96
92) sec-butylbenzene	15.171	105	621571	32.22	ug/L	95
93) 1,3-dichlorobenzene	15.273	146	242761	29.55	ug/L	94
94) p-isopropyltoluene	15.347	119	488263	34.63	ug/L	97
95) 1,4-dichlorobenzene	15.340	146	242630	34.44	ug/L	90
96) 1,2-dichlorobenzene	15.704	146	232926	29.88	ug/L	93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\140716\
Data File : h67477.D
Acq On : 16 Jul 2014 3:20 pm
Operator : jaclynb
Sample : ic2244-25
Misc : ms32261,msh2244,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 17 10:31:07 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 10:16:09 2014
Response via : Initial Calibration

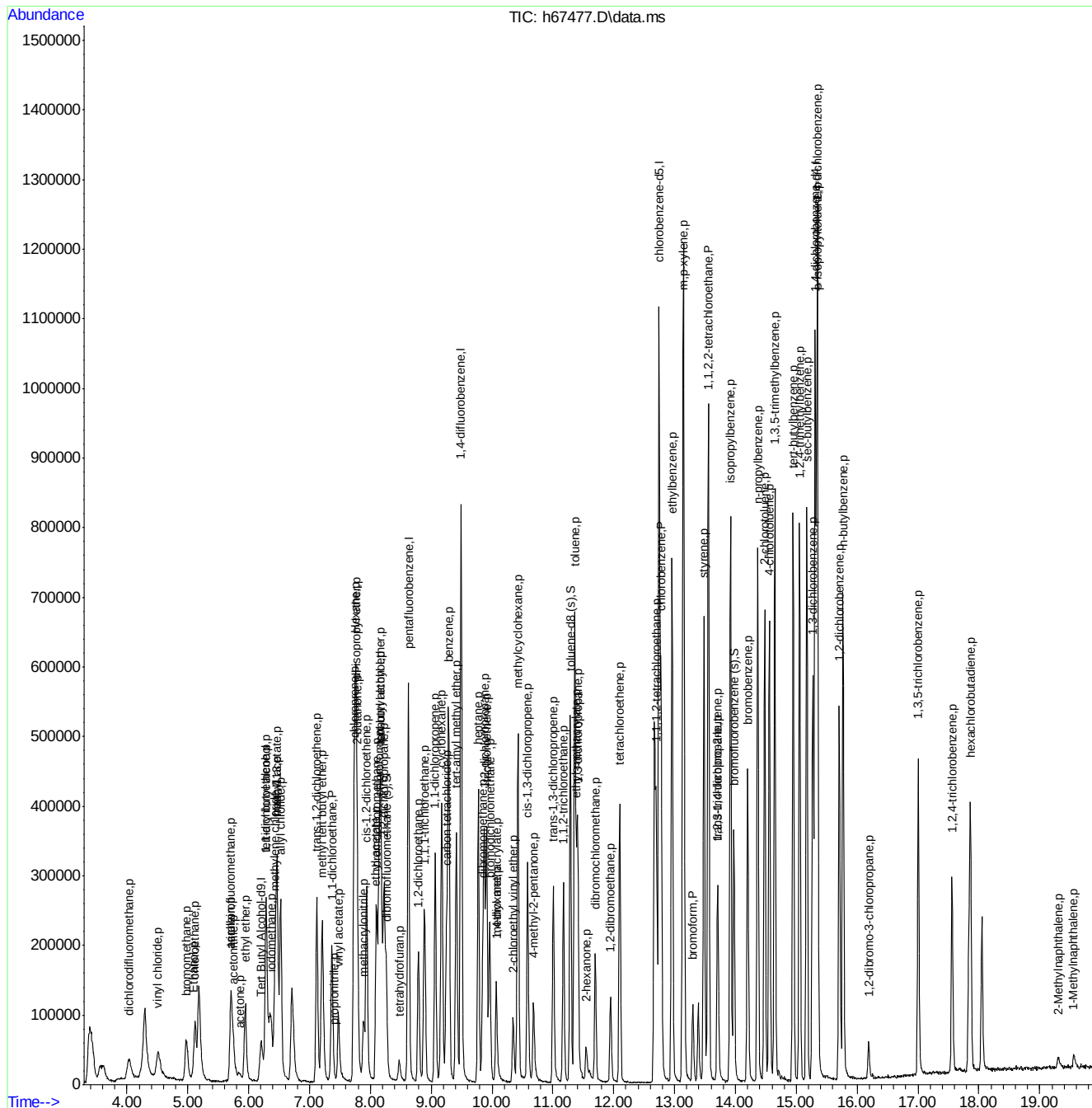
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	n-butylbenzene	15.767	91	440625	29.15	ug/L	90
98)	1,2-dibromo-3-chloropr...	16.191	75	17051	22.24	ug/L #	62
99)	1,3,5-trichlorobenzene	17.003	180	149514	27.62	ug/L	97
100)	1,2,4-trichlorobenzene	17.560	180	98476	21.51	ug/L	99
101)	hexachlorobutadiene	17.860	225	77142	30.14	ug/L	95
104)	2-Methylnaphthalene	19.300	142	12289	4.94	ug/L	97
105)	1-Methylnaphthalene	19.554	TIC	60074	8.67	ug/L	97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\140716\
Data File : h67477.D
Acq On : 16 Jul 2014 3:20 pm
Operator : jaclynb
Sample : ic2244-25
Misc : ms32261,msh2244,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 17 10:31:07 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 10:16:09 2014
Response via : Initial Calibration



H140716W.M Thu Jul 17 17:30:16 2014

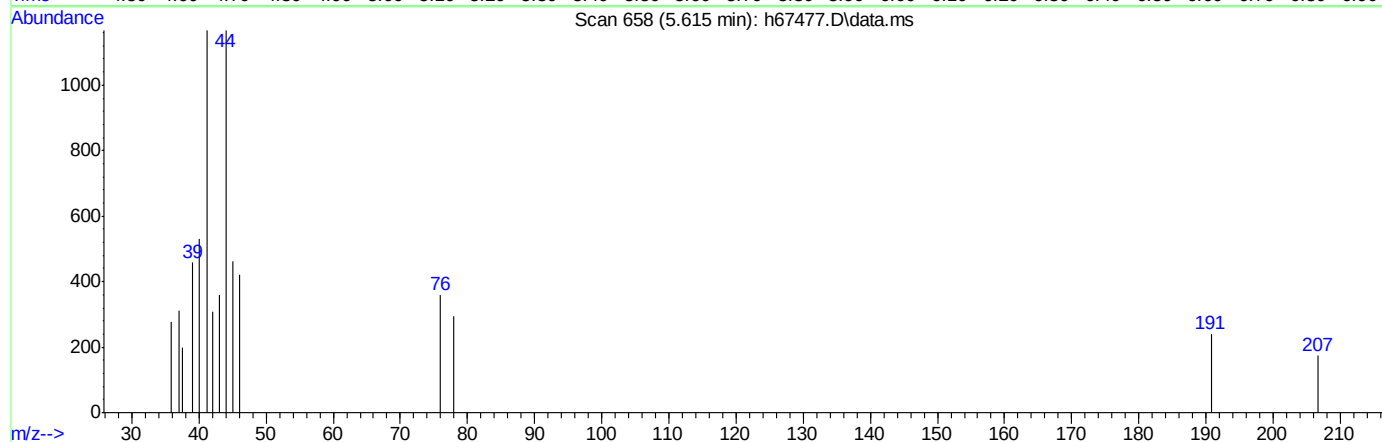
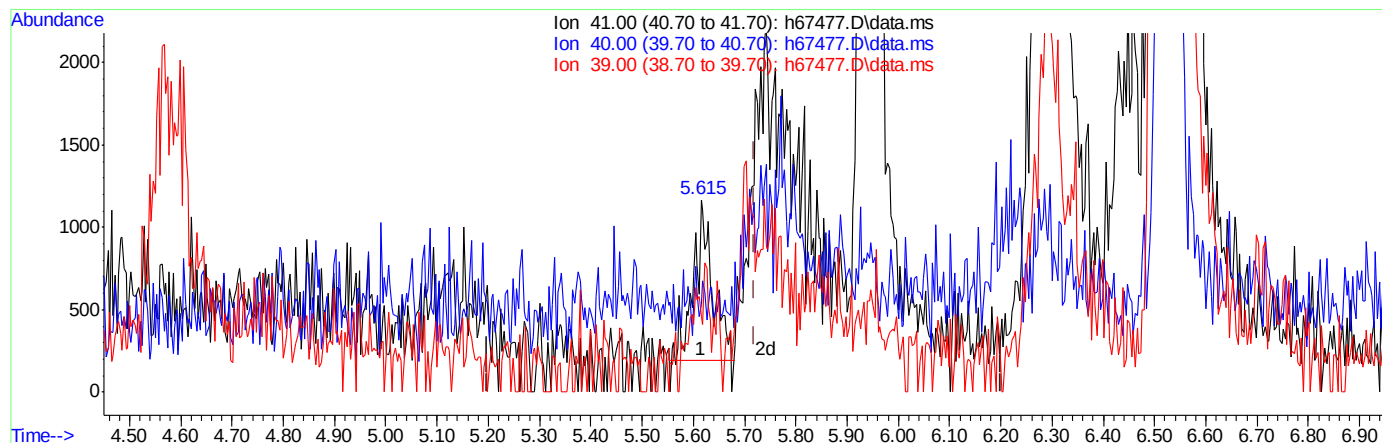
Page: 4

7.6.6

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\140716\
Data File : h67477.D
Acq On : 16 Jul 2014 3:20 pm
Operator : jaclynb
Sample : ic2244-25
Misc : ms32261,msh2244,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 17 10:16:40 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 10:16:09 2014
Response via : Initial Calibration



TIC: h67477.D\data.ms

(10) acetonitrile (p)

5.615min (-0.105) 3.97ug/L

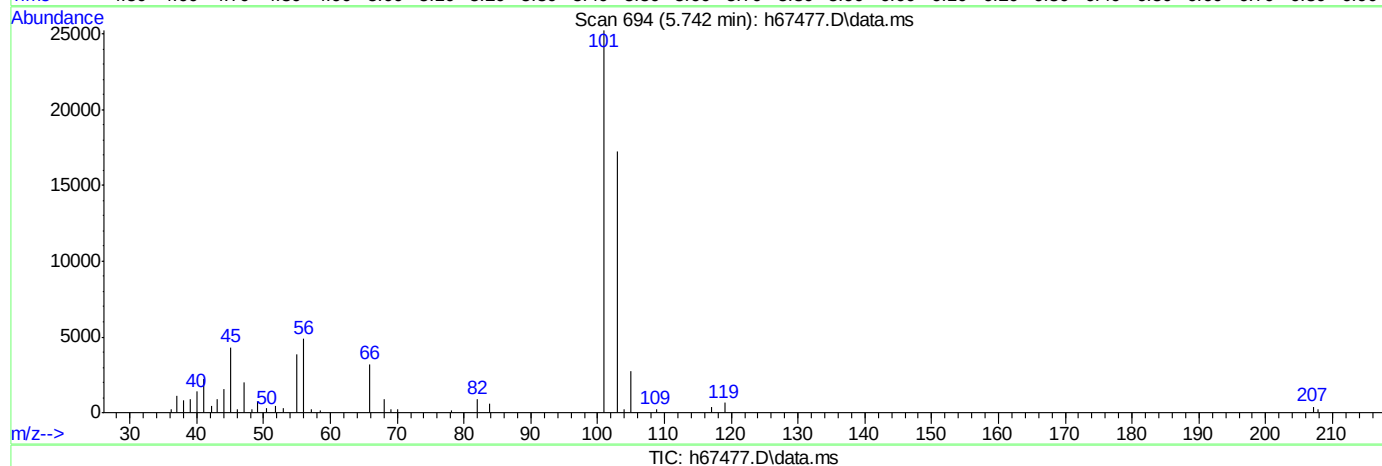
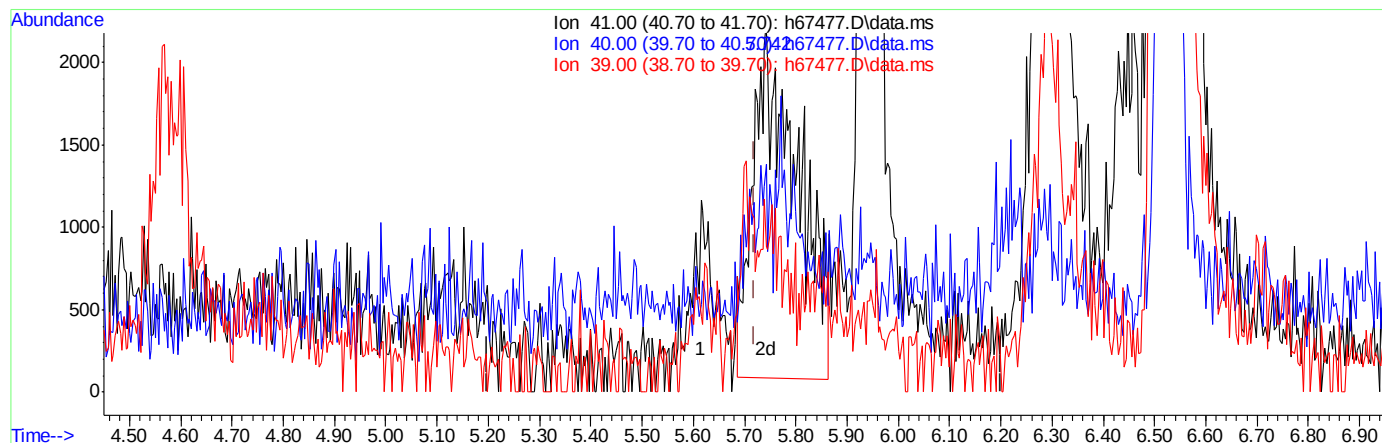
response 2440

Ion	Exp%	Act%
41.00	100	100
40.00	22.50	14.42
39.00	56.70	47.17
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\140716\
Data File : h67477.D
Acq On : 16 Jul 2014 3:20 pm
Operator : jaclynb
Sample : ic2244-25
Misc : ms32261,msh2244,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 17 10:16:40 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 10:16:09 2014
Response via : Initial Calibration



(10) acetonitrile (p)

5.742min (+0.022) 20.75ug/L m

response 12755

Ion	Exp%	Act%
41.00	100	100
40.00	22.50	61.79#
39.00	56.70	39.29
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\140716\
 Data File : h67478.D
 Acq On : 16 Jul 2014 3:49 pm
 Operator : jaclynb
 Sample : icc2244-50
 Misc : ms32261,msh2244,,,,,5,1
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 17 10:32:51 2014
 Quant Method : C:\msdchem\1\METHODS\H140716W.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu Jul 17 10:16:09 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.201	65	134586	500.00	ug/L	0.00
4) pentafluorobenzene	8.622	168	410135	50.00	ug/L	0.00
42) 1,4-difluorobenzene	9.490	114	694753	50.00	ug/L	0.00
66) chlorobenzene-d5	12.744	82	384571	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.309	152	295180	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.259	113	192456	38.99	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	77.98%		
60) toluene-d8 (s)	11.286	98	695999	43.01	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	86.02%		
82) bromofluorobenzene (s)	13.975	95	294056	40.55	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	81.10%		
Target Compounds						
						Qvalue
2) tertiary butyl alcohol	6.286	59	169003	477.77	ug/L	84
3) Ethanol	5.100	45	194220	4495.26	ug/L	96
5) dichlorodifluoromethane	4.045	85	144326	51.42	ug/L	98
7) vinyl chloride	4.511	62	171005	61.33	ug/L	97
8) bromomethane	4.977	96	142738	55.90	ug/L	99
9) chloroethane	5.118	64	144111	56.52	ug/L	99
10) acetonitrile	5.757	41	28423m	46.71	ug/L	
11) trichlorofluoromethane	5.714	101	325817	53.70	ug/L	97
12) freon-113	6.466	101	192105	54.97	ug/L	85
13) acrolein	5.697	56	107953	235.94	ug/L	100
14) 1,1-dichloroethene	6.282	96	184712	53.25	ug/L #	73
15) acetone	5.834	58	19126	54.23	ug/L #	80
16) ethyl ether	5.937	59	169934	53.03	ug/L	80
17) methyl acetate	6.462	43	156604	56.64	ug/L	85
18) methylene chloride	6.438	84	224757	56.15	ug/L #	69
19) methyl tert butyl ether	7.211	73	528935	50.81	ug/L	86
21) allyl chloride	6.526	41	398514	53.94	ug/L	85
22) trans-1,2-dichloroethene	7.122	96	212087	54.39	ug/L	84
23) iodomethane	6.371	142	283847	52.39	ug/L	87
25) propionitrile	7.394	54	24080	45.98	ug/L	100
26) vinyl acetate	7.468	43	413908	46.97	ug/L	93
27) chloroprene	7.729	53	406393	56.14	ug/L	94
28) di-isopropyl ether	7.772	45	813307	58.15	ug/L	86
29) methacrylonitrile	7.881	41	119263	47.64	ug/L	92
30) 2-butanone	7.782	72	18920	52.90	ug/L #	1
31) 1,1-dichloroethane	7.366	63	410555	53.02	ug/L	95
32) tert-butyl ethyl ether	8.170	59	709933	55.27	ug/L	89
33) Hexane	7.754	41	368597	59.81	ug/L #	84
34) isobutyl alcohol	8.174	43	121254	287.06	ug/L	86
35) 2,2-dichloropropane	8.220	77	317898	51.76	ug/L	96
36) cis-1,2-dichloroethene	7.937	96	230564	53.17	ug/L	83
37) ethyl acetate	8.086	43	141088	49.51	ug/L	80
38) bromochloromethane	8.100	128	106749	54.09	ug/L #	45
39) chloroform	8.142	83	387941	55.03	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\140716\
 Data File : h67478.D
 Acq On : 16 Jul 2014 3:49 pm
 Operator : jaclynb
 Sample : icc2244-50
 Misc : ms32261,msh2244,,,,5,1
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 17 10:32:51 2014
 Quant Method : C:\msdchem\1\METHODS\H140716W.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu Jul 17 10:16:09 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,1,1-trichloroethane	8.890	97	337717	50.91	ug/L	94
43) cyclohexane	9.173	56	423360	55.00	ug/L #	71
44) carbon tetrachloride	9.254	117	275221	49.71	ug/L	91
45) 1,1-dichloropropene	9.063	75	287549	53.97	ug/L	92
46) benzene	9.285	78	827857	58.31	ug/L	99
47) tetrahydrofuran	8.474	42	54443	48.46	ug/L	83
48) 1,2-dichloroethane	8.788	62	316343	50.40	ug/L	99
49) tert-amyl methyl ether	9.413	73	529517	53.63	ug/L	89
50) heptane	9.776	43	350597	55.58	ug/L	87
51) trichloroethene	9.910	95	232887	56.72	ug/L	77
52) 1,2-dichloropropane	9.871	63	232117	57.80	ug/L	96
53) dibromomethane	9.847	93	131827	54.14	ug/L	91
54) bromodichloromethane	9.963	83	299995	49.57	ug/L	98
55) methylcyclohexane	10.425	83	353818	55.46	ug/L #	80
56) 2-chloroethyl vinyl ether	10.341	63	105224	48.19	ug/L	88
57) methyl methacrylate	10.062	69	115189	49.81	ug/L	82
58) 1,4-dioxane	10.069	88	8528	254.26	ug/L	77
59) cis-1,3-dichloropropene	10.584	75	345671	51.50	ug/L	91
61) 4-methyl-2-pentanone	10.679	43	213965	51.74	ug/L	93
62) toluene	11.357	92	530095	58.88	ug/L	97
63) trans-1,3-dichloropropene	11.004	75	313823	49.67	ug/L	97
64) 1,1,2-trichloroethane	11.170	83	154260	53.60	ug/L	91
65) ethyl methacrylate	11.385	69	233860	55.45	ug/L	96
67) tetrachloroethene	12.098	166	209583	65.51	ug/L	98
68) 1,3-dichloropropane	11.410	76	304854	63.97	ug/L	99
69) dibromochloromethane	11.696	129	201659	53.63	ug/L	100
70) 1,2-dibromoethane	11.946	107	189129	58.87	ug/L	89
71) 2-hexanone	11.540	43	129746	52.65	ug/L	99
72) chlorobenzene	12.779	112	585157	64.98	ug/L	89
73) 1,1,1,2-tetrachloroethane	12.698	131	199469	61.52	ug/L	90
74) ethylbenzene	12.955	91	1022945	65.03	ug/L	95
75) m,p-xylene	13.142	106	767734	146.86	ug/L	94
77) styrene	13.481	104	627524	63.26	ug/L	96
78) bromoform	13.301	173	111030	48.60	ug/L	97
79) trans-1,4-dichloro-2-b...	13.707	53	59713	51.06	ug/L #	71
81) isopropylbenzene	13.919	105	1026667	57.42	ug/L	98
83) bromobenzene	14.201	156	229261	53.33	ug/L #	75
84) 1,1,2,2-tetrachloroethane	13.559	83	228470	64.67	ug/L	95
85) 1,2,3-trichloropropane	13.707	75	240240	50.34	ug/L	97
86) n-propylbenzene	14.367	91	1159511	55.66	ug/L	92
87) 2-chlorotoluene	14.480	91	760269	56.14	ug/L	88
88) 4-chlorotoluene	14.558	91	787188	55.16	ug/L	85
89) 1,3,5-trimethylbenzene	14.646	105	899387	56.52	ug/L	97
90) tert-butylbenzene	14.946	91	536487	56.03	ug/L	83
91) 1,2,4-trimethylbenzene	15.055	105	874094	56.16	ug/L	97
92) sec-butylbenzene	15.172	105	1138704	58.04	ug/L	95
93) 1,3-dichlorobenzene	15.270	146	441008	52.79	ug/L	95
94) p-isopropyltoluene	15.348	119	858134	59.85	ug/L	94
95) 1,4-dichlorobenzene	15.337	146	427890	59.72	ug/L	93
96) 1,2-dichlorobenzene	15.704	146	430366	54.29	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\140716\
Data File : h67478.D
Acq On : 16 Jul 2014 3:49 pm
Operator : jaclynb
Sample : icc2244-50
Misc : ms32261,msh2244,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 17 10:32:51 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 10:16:09 2014
Response via : Initial Calibration

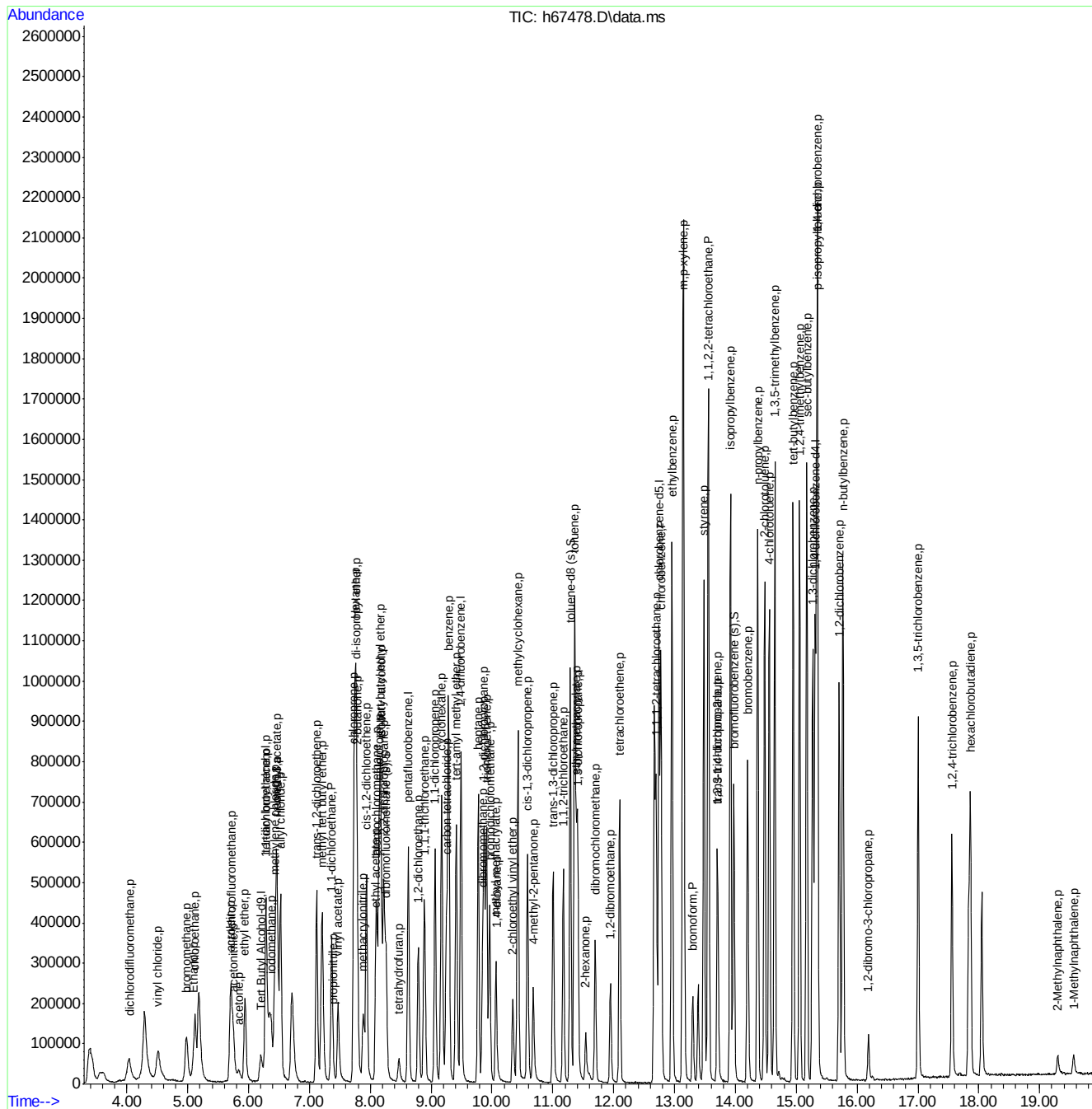
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	n-butylbenzene	15.764	91	816229	53.09	ug/L	89
98)	1,2-dibromo-3-chloropr...	16.184	75	34681	44.48	ug/L #	66
99)	1,3,5-trichlorobenzene	17.003	180	292152	53.06	ug/L	98
100)	1,2,4-trichlorobenzene	17.557	180	203139	43.64	ug/L	95
101)	hexachlorobutadiene	17.864	225	138557	53.24	ug/L	99
104)	2-Methylnaphthalene	19.297	142	33823	13.38	ug/L	93
105)	1-Methylnaphthalene	19.558	TIC	148550	21.08	ug/L #	95

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

Quantitation Report (QT Reviewed)

```
Data Path   : C:\msdchem\1\DATA\140716\
Data File   : h67478.D
Acq On      : 16 Jul 2014    3:49 pm
Operator    : jaclynb
Sample      : icc2244-50
Misc        : ms32261,msh2244,,,,,5,1
ALS Vial    : 8      Sample Multiplier: 1
```

Quant Time: Jul 17 10:32:51 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 10:16:09 2014
Response via : Initial Calibration



H140716W.M Thu Jul 17 17:30:20 2014

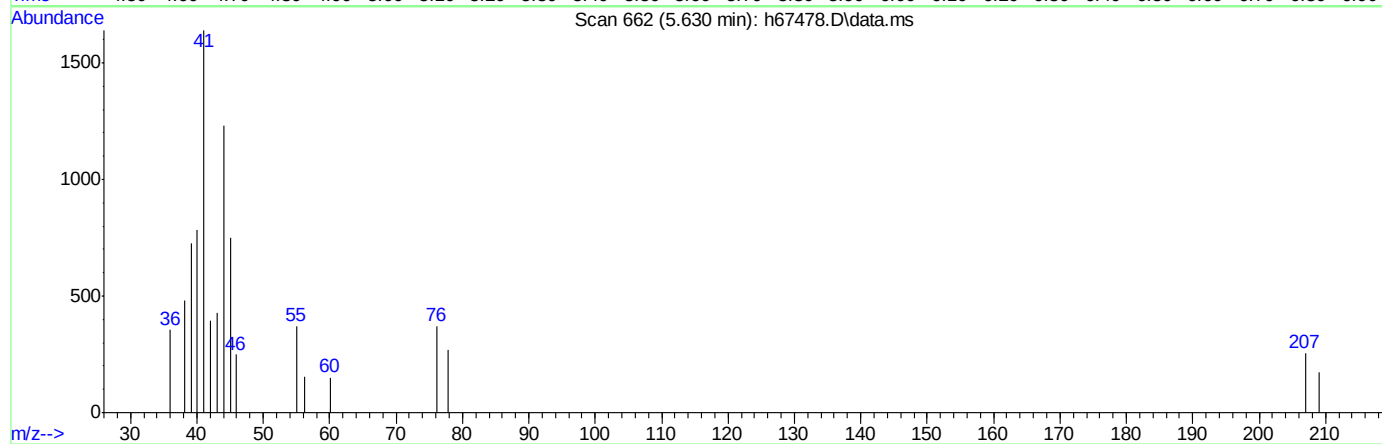
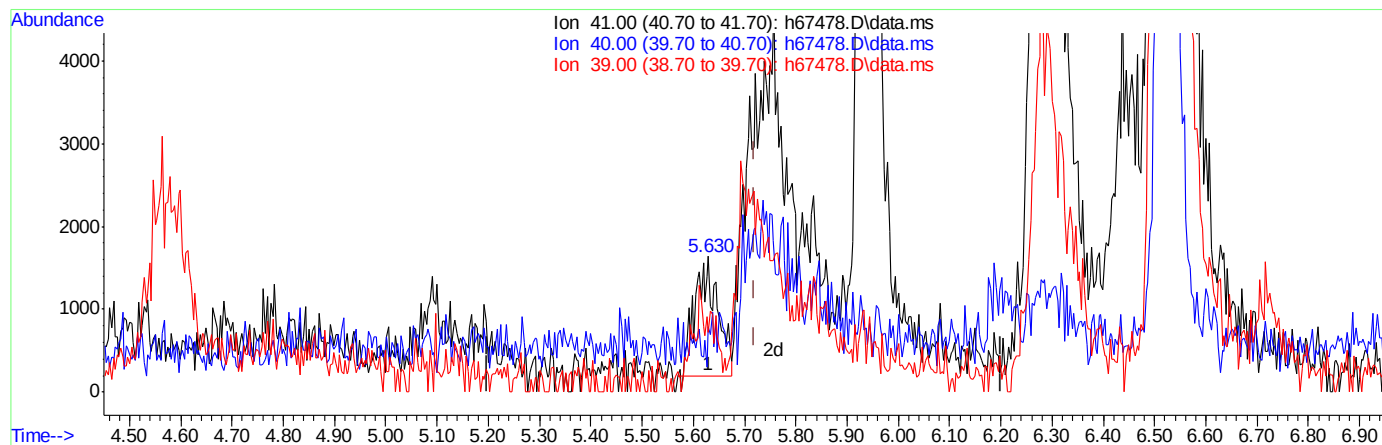
Page: 4

7.6.7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\140716\
Data File : h67478.D
Acq On : 16 Jul 2014 3:49 pm
Operator : jaclynb
Sample : icc2244-50
Misc : ms32261,msh2244,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 17 10:16:42 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 10:16:09 2014
Response via : Initial Calibration



(10) acetonitrile (p)

5.630min (-0.090) 7.23ug/L

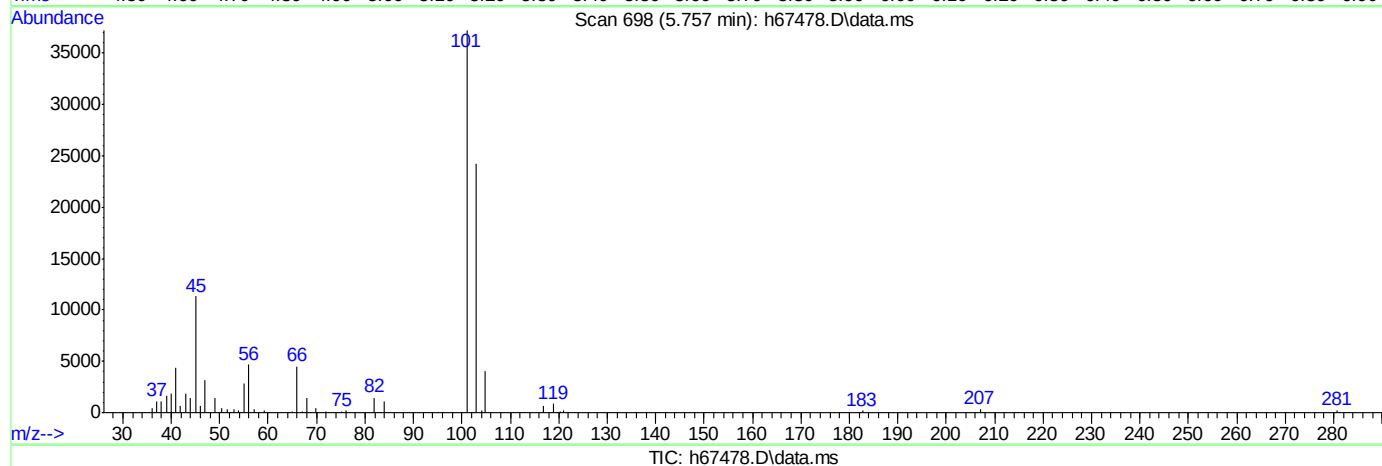
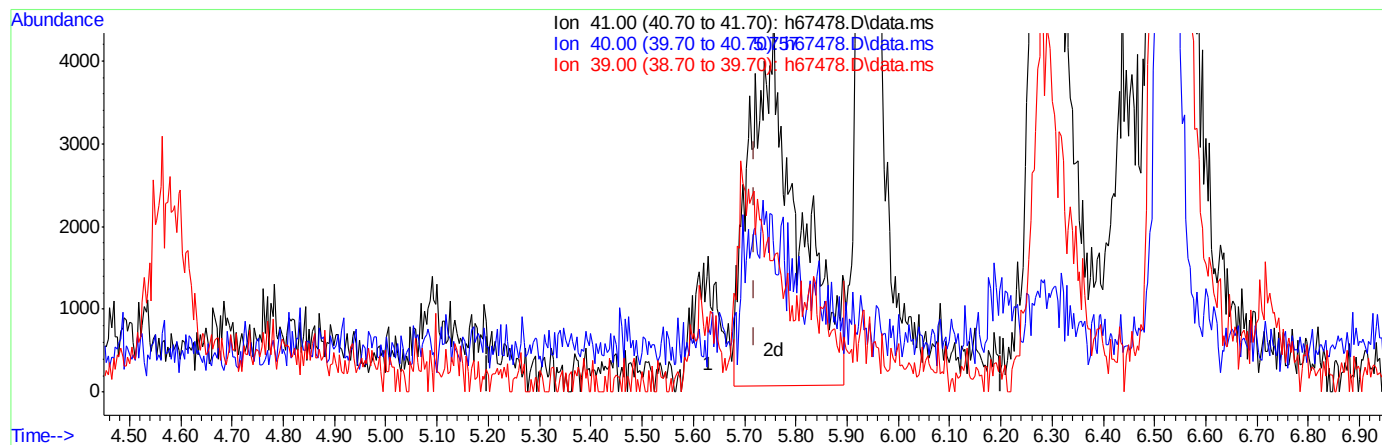
response 4401

Ion	Exp%	Act%
41.00	100	100
40.00	22.50	12.51
39.00	56.70	33.08
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\140716\
Data File : h67478.D
Acq On : 16 Jul 2014 3:49 pm
Operator : jaclynb
Sample : icc2244-50
Misc : ms32261,msh2244,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 17 10:16:42 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 10:16:09 2014
Response via : Initial Calibration



(10) acetonitrile (p)

5.757min (+0.037) 46.71ug/L m

response 28423

Ion	Exp%	Act%
41.00	100	100
40.00	22.50	41.65
39.00	56.70	36.10
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\140716\
 Data File : h67479.D
 Acq On : 16 Jul 2014 4:17 pm
 Operator : jaclynb
 Sample : ic2244-100
 Misc : ms32261,msh2244,,,,5,1
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 17 10:16:44 2014
 Quant Method : C:\msdchem\1\METHODS\H140716W.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu Jul 17 10:16:09 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.202	65	133987	500.00	ug/L	0.00
4) pentafluorobenzene	8.626	168	414876	50.00	ug/L	0.00
42) 1,4-difluorobenzene	9.491	114	708297	50.00	ug/L	0.00
66) chlorobenzene-d5	12.744	82	407404	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.310	152	308374	50.00	ug/L	0.00

System Monitoring Compounds						
40) dibromofluoromethane (s)	8.259	113	421870	84.50	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	169.00%#
60) toluene-d8 (s)	11.287	98	1442934	87.46	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	174.92%#
82) bromofluorobenzene (s)	13.972	95	642653	84.84	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	169.68%#

Target Compounds						Qvalue
2) tertiary butyl alcohol	6.283	59	341682	970.26	ug/L	91
3) Ethanol	5.094	45	424785	9875.69	ug/L	99
5) dichlorodifluoromethane	4.039	85	284379	100.15	ug/L	98
7) vinyl chloride	4.508	62	328555	116.48	ug/L	95
8) bromomethane	4.981	96	271239	105.01	ug/L	98
9) chloroethane	5.122	64	279331	108.30	ug/L	99
10) acetonitrile	5.725	41	57772	93.85	ug/L	69
11) trichlorofluoromethane	5.708	101	632159	102.99	ug/L	97
12) freon-113	6.463	101	383835	108.57	ug/L	86
13) acrolein	5.694	56	234432	506.52	ug/L	99
14) 1,1-dichloroethene	6.286	96	384805	109.68	ug/L	# 73
15) acetone	5.831	58	38958	109.20	ug/L	98
16) ethyl ether	5.941	59	352226	108.65	ug/L	83
17) methyl acetate	6.459	43	322390	115.26	ug/L	84
18) methylene chloride	6.442	84	450106	111.16	ug/L	# 60
19) methyl tert butyl ether	7.207	73	1102225	104.67	ug/L	81
21) allyl chloride	6.526	41	842747	112.77	ug/L	83
22) trans-1,2-dichloroethene	7.119	96	437404	110.89	ug/L	# 78
23) iodomethane	6.371	142	580939	106.01	ug/L	91
25) propionitrile	7.377	54	52738	99.54	ug/L	100
26) vinyl acetate	7.469	43	895001	100.39	ug/L	94
27) chloroprene	7.730	53	828363	113.12	ug/L	93
28) di-isopropyl ether	7.776	45	1637656	115.75	ug/L	87
29) methacrylonitrile	7.881	41	251710	99.40	ug/L	96
30) 2-butanone	7.783	72	41041	113.44	ug/L	# 20
31) 1,1-dichloroethane	7.366	63	830984	106.09	ug/L	95
32) tert-butyl ethyl ether	8.171	59	1438016	110.67	ug/L	89
33) Hexane	7.754	41	737389	118.28	ug/L	85
34) isobutyl alcohol	8.174	43	251006	587.44	ug/L	# 73
35) 2,2-dichloropropane	8.224	77	667943	107.50	ug/L	94
36) cis-1,2-dichloroethene	7.938	96	474856	108.26	ug/L	85
37) ethyl acetate	8.079	43	294004	102.00	ug/L	87
38) bromochloromethane	8.100	128	218986	109.70	ug/L	# 48
39) chloroform	8.143	83	788298	110.55	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\140716\
 Data File : h67479.D
 Acq On : 16 Jul 2014 4:17 pm
 Operator : jaclynb
 Sample : ic2244-100
 Misc : ms32261,msh2244,,,,5,1
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 17 10:16:44 2014
 Quant Method : C:\msdchem\1\METHODS\H140716W.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu Jul 17 10:16:09 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,1,1-trichloroethane	8.891	97	693881	103.41	ug/L	93
43) cyclohexane	9.169	56	860154	109.61	ug/L #	67
44) carbon tetrachloride	9.251	117	570405	101.06	ug/L	96
45) 1,1-dichloropropene	9.064	75	595710	109.68	ug/L	93
46) benzene	9.286	78	1667209	115.19	ug/L	98
47) tetrahydrofuran	8.464	42	119171	104.04	ug/L	83
48) 1,2-dichloroethane	8.788	62	660959	103.28	ug/L	99
49) tert-amyl methyl ether	9.413	73	1071309	106.43	ug/L	89
50) heptane	9.773	43	710329	110.45	ug/L	87
51) trichloroethene	9.907	95	468907	112.02	ug/L	77
52) 1,2-dichloropropane	9.875	63	463569	113.23	ug/L	95
53) dibromomethane	9.843	93	269646	108.63	ug/L	90
54) bromodichloromethane	9.960	83	629299	101.99	ug/L	95
55) methylcyclohexane	10.426	83	711557	109.40	ug/L #	77
56) 2-chloroethyl vinyl ether	10.341	63	211145	94.84	ug/L	90
57) methyl methacrylate	10.062	69	245233	104.03	ug/L	82
58) 1,4-dioxane	10.062	88	17612	515.06	ug/L	78
59) cis-1,3-dichloropropene	10.581	75	724228	105.85	ug/L	92
61) 4-methyl-2-pentanone	10.673	43	437113	103.67	ug/L	95
62) toluene	11.361	92	1052284	114.65	ug/L	96
63) trans-1,3-dichloropropene	11.001	75	667153	103.57	ug/L	99
64) 1,1,2-trichloroethane	11.174	83	318421	108.52	ug/L	88
65) ethyl methacrylate	11.386	69	482303	112.17	ug/L	94
67) tetrachloroethene	12.098	166	417746	123.26	ug/L	97
68) 1,3-dichloropropane	11.410	76	624346	123.67	ug/L	97
69) dibromochloromethane	11.696	129	436241	109.51	ug/L	100
70) 1,2-dibromoethane	11.943	107	390045	114.61	ug/L	96
71) 2-hexanone	11.534	43	285148	109.23	ug/L	99
72) chlorobenzene	12.776	112	1193981	125.17	ug/L	90
73) 1,1,1,2-tetrachloroethane	12.695	131	412394	120.07	ug/L	92
74) ethylbenzene	12.956	91	2113927	126.85	ug/L	95
75) m,p-xylene	13.143	106	1507802	272.27	ug/L	93
77) styrene	13.482	104	1308954	124.56	ug/L	95
78) bromoform	13.298	173	257213	106.28	ug/L	99
79) trans-1,4-dichloro-2-b...	13.711	53	133748	107.96	ug/L	98
81) isopropylbenzene	13.919	105	2053535	109.94	ug/L	97
83) bromobenzene	14.198	156	472688	105.25	ug/L #	71
84) 1,1,2,2-tetrachloroethane	13.559	83	458693	124.27	ug/L	96
85) 1,2,3-trichloropropane	13.704	75	513095	102.91	ug/L	100
86) n-propylbenzene	14.364	91	2369475	108.87	ug/L	92
87) 2-chlorotoluene	14.480	91	1545495	109.24	ug/L	86
88) 4-chlorotoluene	14.554	91	1609153	107.93	ug/L	85
89) 1,3,5-trimethylbenzene	14.646	105	1823441	109.69	ug/L	97
90) tert-butylbenzene	14.950	91	1092358	109.21	ug/L	83
91) 1,2,4-trimethylbenzene	15.056	105	1777438	109.31	ug/L	95
92) sec-butylbenzene	15.172	105	2279185	111.21	ug/L	95
93) 1,3-dichlorobenzene	15.271	146	914751	104.81	ug/L	95
94) p-isopropyltoluene	15.348	119	1744152	116.45	ug/L	93
95) 1,4-dichlorobenzene	15.338	146	869529	116.17	ug/L	94
96) 1,2-dichlorobenzene	15.708	146	902626	109.00	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\140716\
Data File : h67479.D
Acq On : 16 Jul 2014 4:17 pm
Operator : jaclynb
Sample : ic2244-100
Misc : ms32261,msh2244,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 17 10:16:44 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 10:16:09 2014
Response via : Initial Calibration

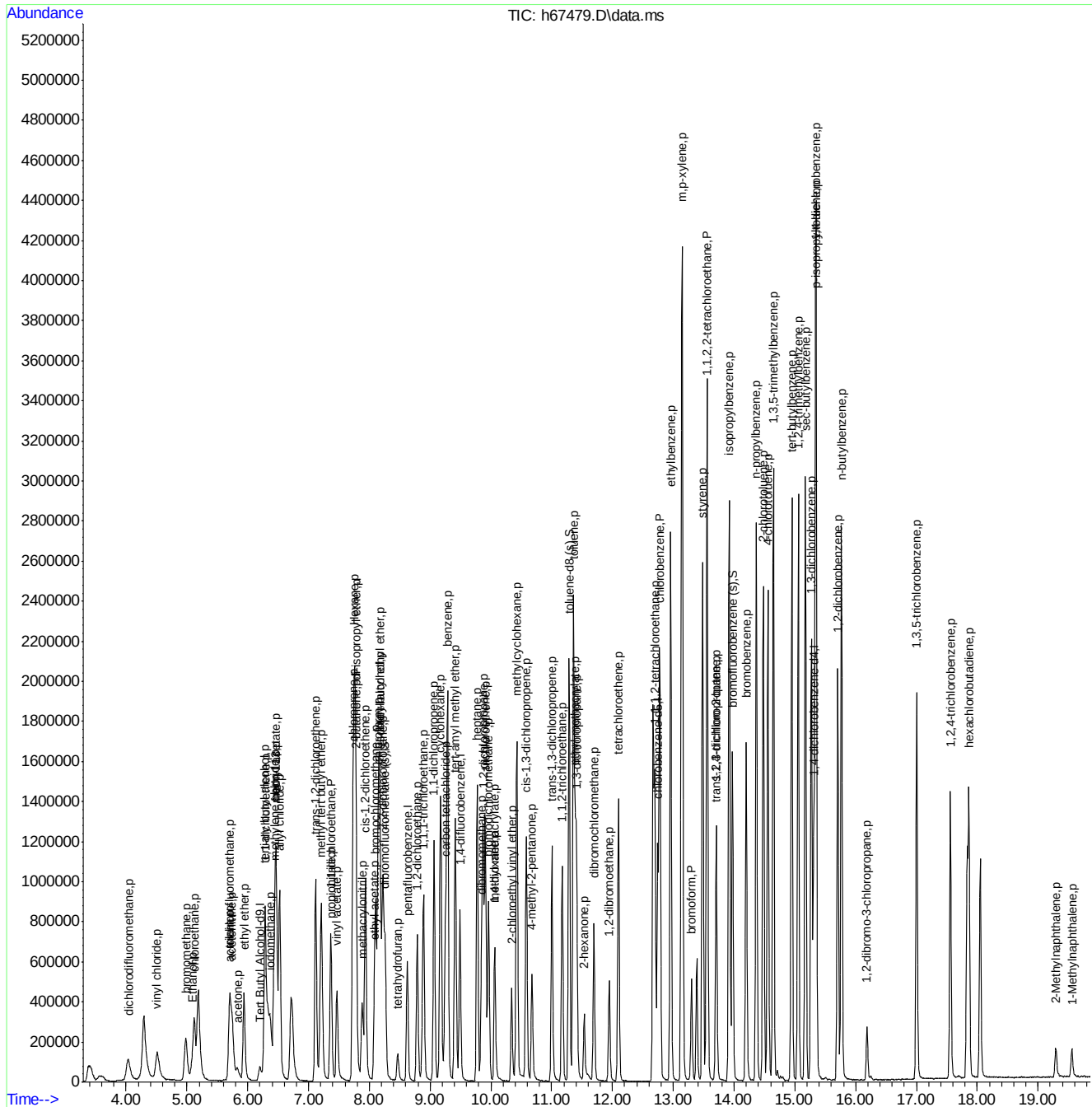
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	n-butylbenzene	15.768	91	1703117	106.05	ug/L	87
98)	1,2-dibromo-3-chloropr...	16.185	75	76937	94.46	ug/L	80
99)	1,3,5-trichlorobenzene	17.003	180	632491	109.96	ug/L	97
100)	1,2,4-trichlorobenzene	17.557	180	481474	99.01	ug/L	99
101)	hexachlorobutadiene	17.864	225	293329	107.89	ug/L	97
104)	2-Methylnaphthalene	19.294	142	102321	38.73	ug/L	93
105)	1-Methylnaphthalene	19.558	TIC	362802	49.28	ug/L	95

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

(QT Reviewed)

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Data Path   : C:\msdchem\1\DATA\140716\
Data File  : h67479.D
Acq On     : 16 Jul 2014    4:17 pm
Operator   : jaclynb
Sample     : ic2244-100
Misc       : ms32261,msh2244,,,,,5,1
ALS Vial   : 9      Sample Multiplier: 1
```

Quant Time: Jul 17 10:16:44 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 10:16:09 2014
Response via : Initial Calibration



Page: 4

7.6.8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\140716\
 Data File : h67480.D
 Acq On : 16 Jul 2014 4:45 pm
 Operator : jaclynb
 Sample : ic2244-200
 Misc : ms32261,msh2244,,,,5,1
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 17 12:19:56 2014
 Quant Method : C:\msdchem\1\METHODS\H140716W.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu Jul 17 10:16:09 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.208	65	136326	500.00	ug/L	0.01
4) pentafluorobenzene	8.625	168	423965	50.00	ug/L	0.00
42) 1,4-difluorobenzene	9.489	114	715835	50.00	ug/L	0.00
66) chlorobenzene-d5	12.743	82	390074m	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.308	152	313007	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.261	113	815824	159.90	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	319.80%#		
60) toluene-d8 (s)	11.286	98	2732758	163.90	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	327.80%#		
82) bromofluorobenzene (s)	13.971	95	1232770	160.33	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	320.66%#		
Target Compounds						
					Qvalue	
2) tertiary butyl alcohol	6.285	59	711822	1986.65	ug/L	92
3) Ethanol	5.096	45	876840	20035.62	ug/L	100
5) dichlorodifluoromethane	4.034	85	518593	178.72	ug/L	99
7) vinyl chloride	4.514	62	581661	201.79	ug/L	90
8) bromomethane	4.990	96	522826	198.08	ug/L	99
9) chloroethane	5.128	64	506603	192.21	ug/L	98
10) acetonitrile	5.717	41	146898	233.53	ug/L	79
11) trichlorofluoromethane	5.742	101	1133114	180.65	ug/L	100
12) freon-113	6.469	101	666599	184.52	ug/L	85
13) acrolein	5.696	56	479695m	1014.23	ug/L	
14) 1,1-dichloroethene	6.289	96	679834	189.61	ug/L #	72
15) acetone	5.823	58	82858	227.28	ug/L	98
16) ethyl ether	5.936	59	701977	211.90	ug/L	84
17) methyl acetate	6.455	43	631857	221.06	ug/L	85
18) methylene chloride	6.444	84	858605	207.50	ug/L #	65
19) methyl tert butyl ether	7.210	73	2216114	205.95	ug/L	85
21) allyl chloride	6.522	41	1515424	198.43	ug/L	85
22) trans-1,2-dichloroethene	7.114	96	791124	196.26	ug/L #	77
23) iodomethane	6.370	142	1095254	195.57	ug/L	91
25) propionitrile	7.369	54	109952	203.09	ug/L	100
26) vinyl acetate	7.464	43	1833734	201.28	ug/L	93
27) chloroprene	7.732	53	1475940	197.22	ug/L	91
28) di-isopropyl ether	7.774	45	3107942	214.96	ug/L	88
29) methacrylonitrile	7.877	41	526057	203.28	ug/L	96
30) 2-butanone	7.771	72	81034	219.18	ug/L #	1
31) 1,1-dichloroethane	7.365	63	1571887	196.37	ug/L	94
32) tert-butyl ethyl ether	8.170	59	2787142	209.91	ug/L	89
33) Hexane	7.757	41	1336852	209.84	ug/L	87
34) isobutyl alcohol	8.170	43	475582	1089.16	ug/L	77
35) 2,2-dichloropropane	8.223	77	1195938	188.35	ug/L	95
36) cis-1,2-dichloroethene	7.937	96	902796	201.42	ug/L	83
37) ethyl acetate	8.078	43	612925	208.08	ug/L	86
38) bromochloromethane	8.099	128	428493	210.04	ug/L #	45
39) chloroform	8.141	83	1480506	203.17	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\140716\
 Data File : h67480.D
 Acq On : 16 Jul 2014 4:45 pm
 Operator : jaclynb
 Sample : ic2244-200
 Misc : ms32261,msh2244,,,,5,1
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 17 12:19:56 2014
 Quant Method : C:\msdchem\1\METHODS\H140716W.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu Jul 17 10:16:09 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,1,1-trichloroethane	8.889	97	1280402	186.74	ug/L	93
43) cyclohexane	9.175	56	1515671	191.11	ug/L #	68
44) carbon tetrachloride	9.253	117	1041171	182.52	ug/L	95
45) 1,1-dichloropropene	9.066	75	1053020	191.83	ug/L	93
46) benzene	9.285	78	3065150	209.55	ug/L	98
47) tetrahydrofuran	8.462	42	237576	205.23	ug/L	89
48) 1,2-dichloroethane	8.787	62	1307707	202.19	ug/L	97
49) tert-amyl methyl ether	9.412	73	2138111	210.17	ug/L	89
50) heptane	9.772	43	1347103	207.26	ug/L	88
51) trichloroethene	9.909	95	853035	201.64	ug/L	77
52) 1,2-dichloropropane	9.874	63	875398	211.57	ug/L	96
53) dibromomethane	9.846	93	537337	214.19	ug/L	90
54) bromodichloromethane	9.959	83	1257880	201.72	ug/L	93
55) methylcyclohexane	10.425	83	1293099	196.72	ug/L #	76
56) 2-chloroethyl vinyl ether	10.340	63	464570	206.48	ug/L	89
57) methyl methacrylate	10.061	69	506460	212.57	ug/L	80
58) 1,4-dioxane	10.054	88	35879	1038.22	ug/L	94
59) cis-1,3-dichloropropene	10.580	75	1434664	207.47	ug/L	89
61) 4-methyl-2-pentanone	10.672	43	911795	213.97	ug/L	95
62) toluene	11.360	92	1931670	208.25	ug/L	100
63) trans-1,3-dichloropropene	11.003	75	1333028	204.76	ug/L	98
64) 1,1,2-trichloroethane	11.169	83	635698	214.37	ug/L	92
65) ethyl methacrylate	11.384	69	969384	223.09	ug/L	98
67) tetrachloroethene	12.097	166	758718	233.82	ug/L	97
68) 1,3-dichloropropane	11.406	76	1215450	251.44	ug/L	98
69) dibromochloromethane	11.695	129	906044	237.54	ug/L	99
70) 1,2-dibromoethane	11.945	107	798460	245.04	ug/L	93
71) 2-hexanone	11.533	43	619529	247.87	ug/L	99
72) chlorobenzene	12.778	112	2253261	246.71	ug/L	90
73) 1,1,1,2-tetrachloroethane	12.697	131	801841	243.82	ug/L	94
74) ethylbenzene	12.955	91	3853920	241.54	ug/L	95
75) m,p-xylene	13.145	106	2686064	506.58	ug/L	89
77) styrene	13.480	104	2457951	244.29	ug/L	92
78) bromoform	13.297	173	543106	234.38	ug/L	100
79) trans-1,4-dichloro-2-b...	13.706	53	291389	245.66	ug/L	96
81) isopropylbenzene	13.918	105	3810936	201.00	ug/L	95
83) bromobenzene	14.200	156	922553	202.37	ug/L #	72
84) 1,1,2,2-tetrachloroethane	13.558	83	861357	229.91	ug/L	95
85) 1,2,3-trichloropropane	13.706	75	1047079	206.90	ug/L	94
86) n-propylbenzene	14.366	91	4353850	197.08	ug/L	93
87) 2-chlorotoluene	14.479	91	2888405	201.15	ug/L	84
88) 4-chlorotoluene	14.553	91	3058335	202.09	ug/L	84
89) 1,3,5-trimethylbenzene	14.645	105	3407658	201.96	ug/L	95
90) tert-butylbenzene	14.948	91	2035494	200.49	ug/L	84
91) 1,2,4-trimethylbenzene	15.054	105	3388501	205.31	ug/L	95
92) sec-butylbenzene	15.174	105	4242576	203.94	ug/L	94
93) 1,3-dichlorobenzene	15.270	146	1755338	198.15	ug/L	94
94) p-isopropyltoluene	15.347	119	3215480	211.50	ug/L	94
95) 1,4-dichlorobenzene	15.340	146	1621561	213.43	ug/L	93
96) 1,2-dichlorobenzene	15.704	146	1748463	208.02	ug/L	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\140716\
Data File : h67480.D
Acq On : 16 Jul 2014 4:45 pm
Operator : jaclynb
Sample : ic2244-200
Misc : ms32261,msh2244,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 17 12:19:56 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 10:16:09 2014
Response via : Initial Calibration

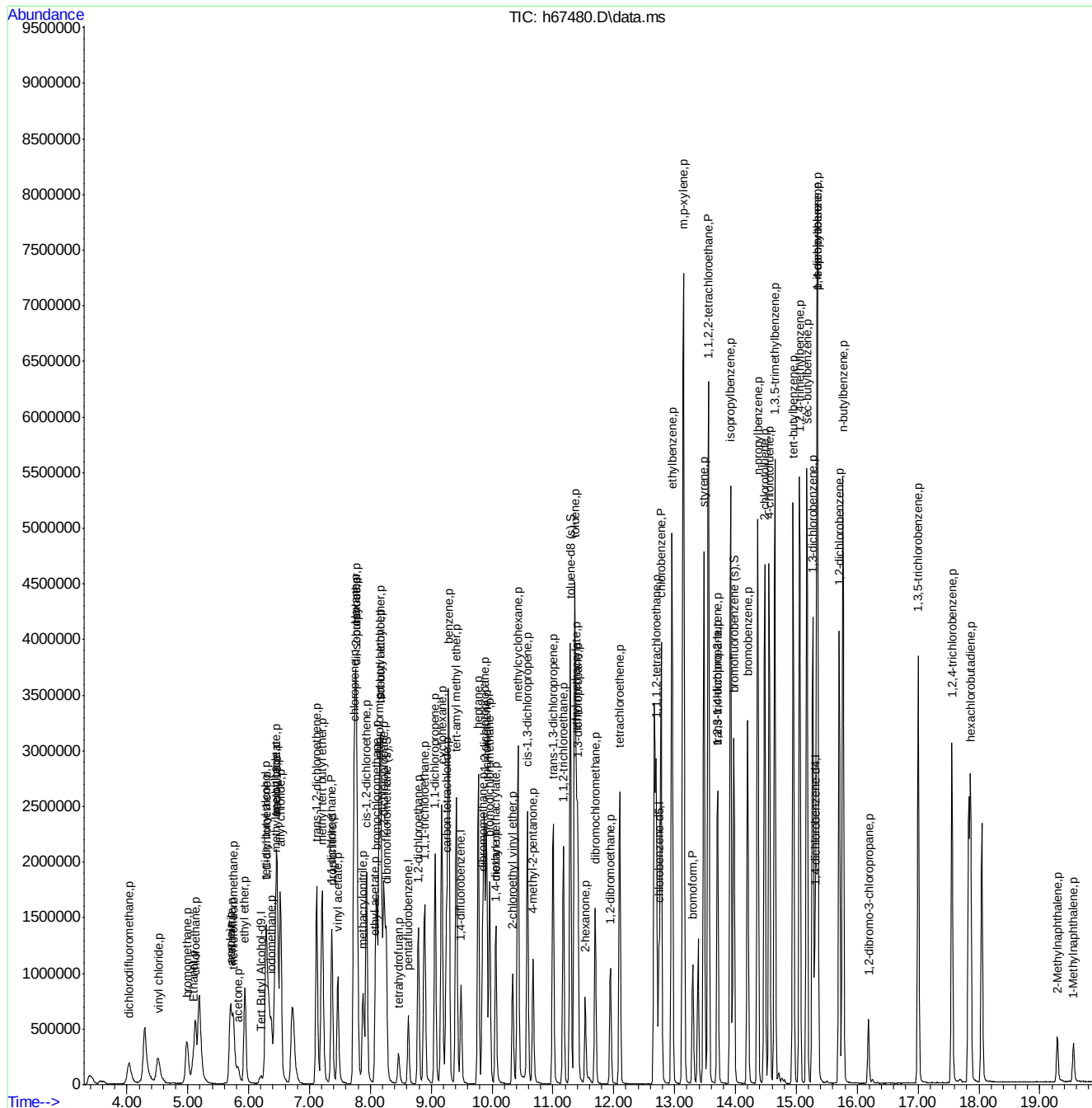
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97) n-butylbenzene	15.767	91	3340560	204.92	ug/L	89
98) 1,2-dibromo-3-chloropr...	16.187	75	169308	204.78	ug/L	78
99) 1,3,5-trichlorobenzene	17.002	180	1249042	213.94	ug/L	97
100) 1,2,4-trichlorobenzene	17.556	180	1025543	207.76	ug/L	99
101) hexachlorobutadiene	17.867	225	579592	210.02	ug/L	97
104) 2-Methylnaphthalene	19.292	142	264980	98.82	ug/L	93
105) 1-Methylnaphthalene	19.550	TIC	775110	103.72	ug/L #	85

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\140716\
Data File : h67480.D
Acq On : 16 Jul 2014 4:45 pm
Operator : jaclynb
Sample : ic2244-200
Misc : ms32261,msh2244,,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 17 12:19:56 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 10:16:09 2014
Response via : Initial Calibration



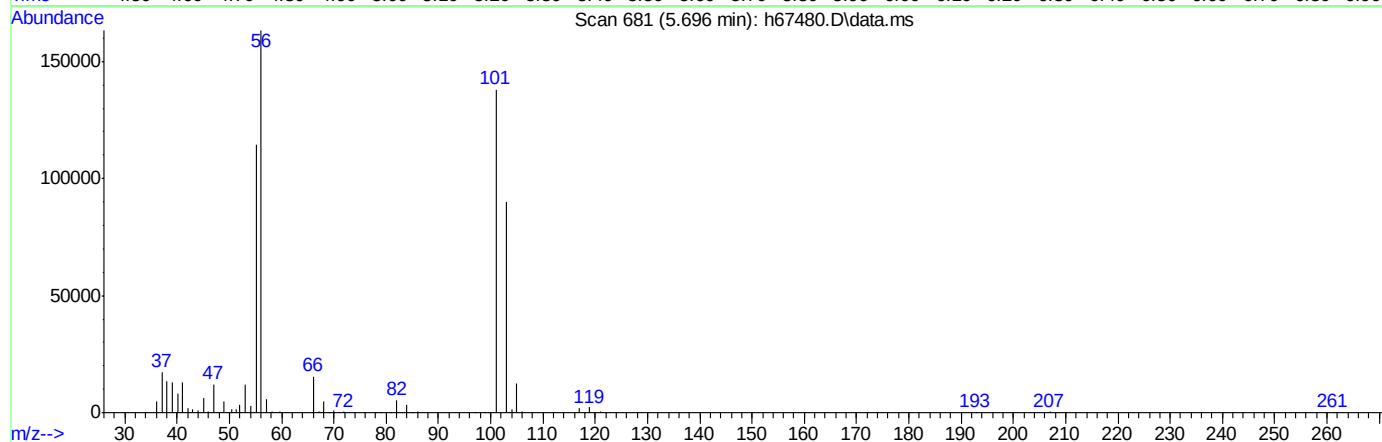
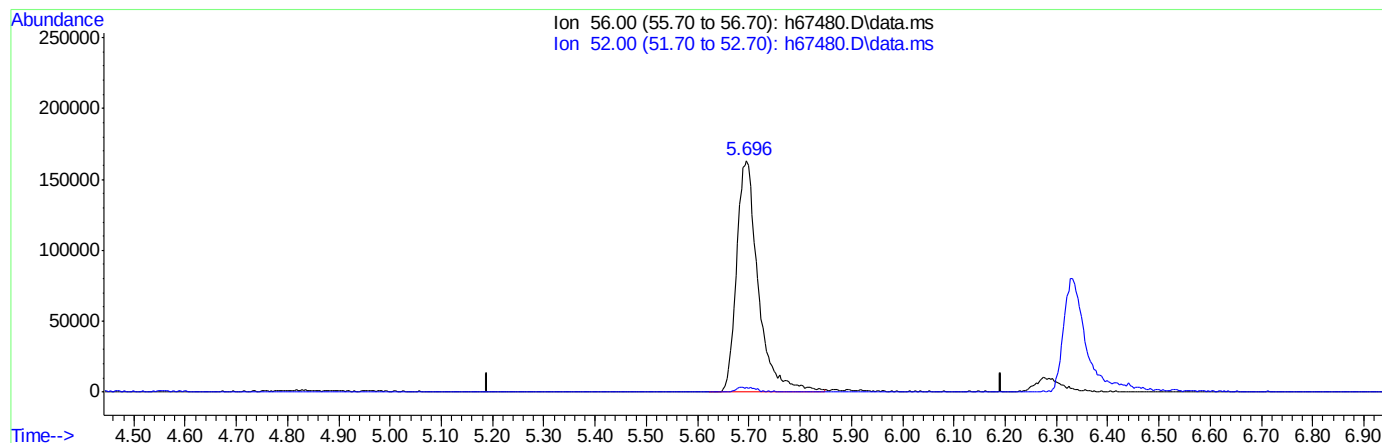
H140716W.M Thu Jul 17 17:30:27 2014

Page: 4

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\140716\
Data File : h67480.D
Acq On : 16 Jul 2014 4:45 pm
Operator : jaclynb
Sample : ic2244-200
Misc : ms32261,msh2244,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 17 10:16:46 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 10:16:09 2014
Response via : Initial Calibration



(13) acrolein (p)

5.696min (+0.004) 1014.23ug/L m

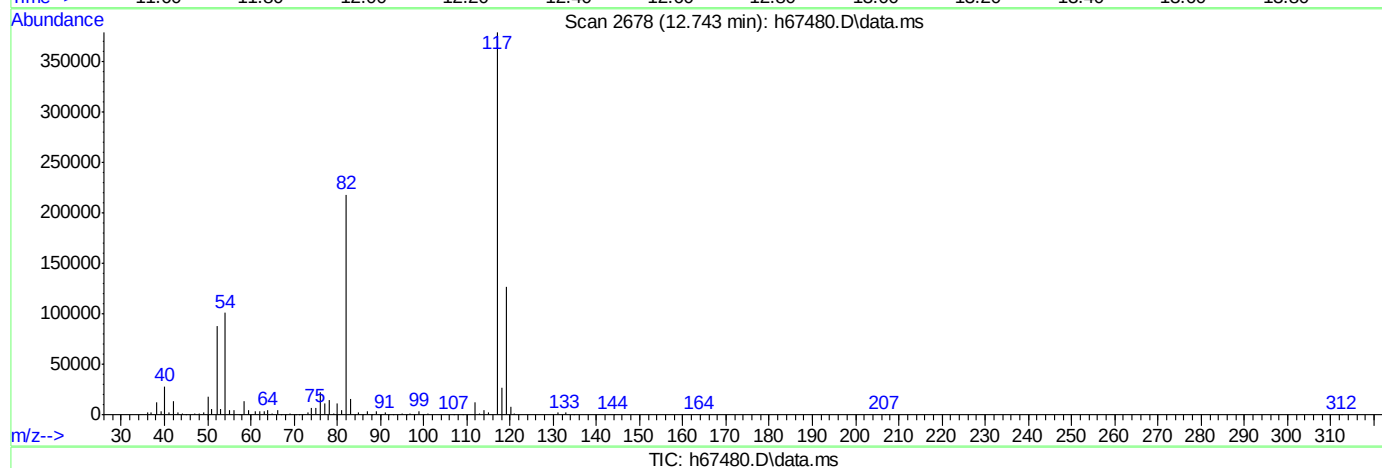
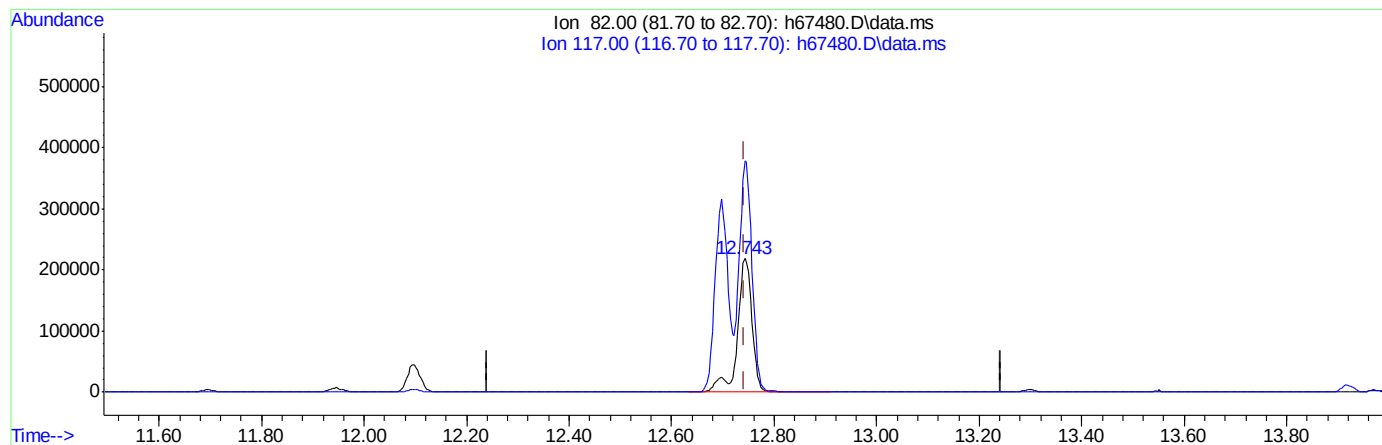
response 479695

Ion	Exp%	Act%
56.00	100	100
52.00	2.70	1.99
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\140716\
Data File : h67480.D
Acq On : 16 Jul 2014 4:45 pm
Operator : jaclynb
Sample : ic2244-200
Misc : ms32261,msh2244,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 17 10:35:42 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 10:16:09 2014
Response via : Initial Calibration



(66) chlorobenzene-d5 (I)

12.743min (+0.001) 50.00ug/L

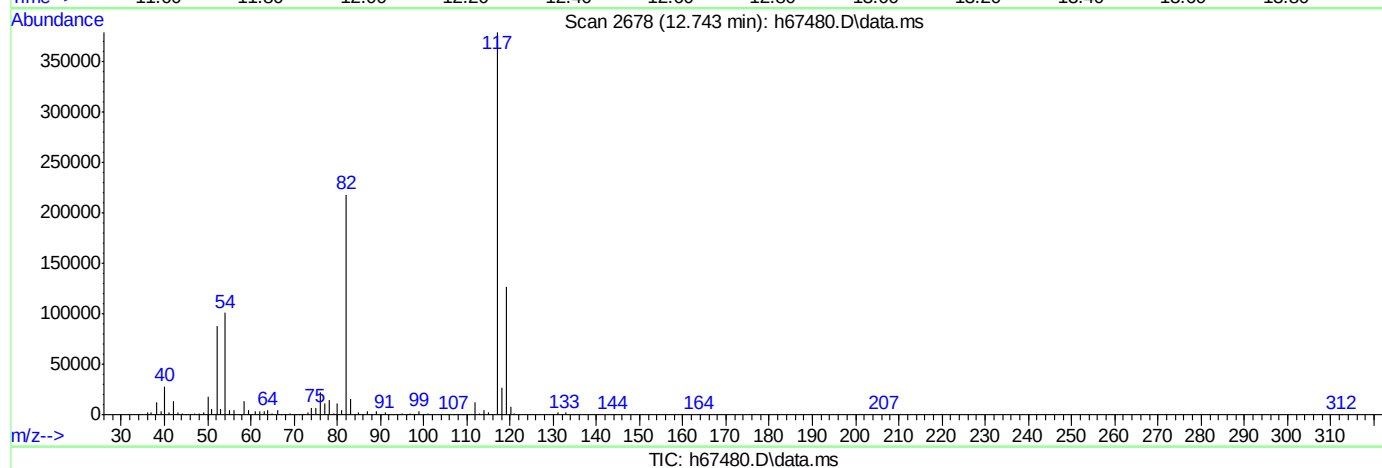
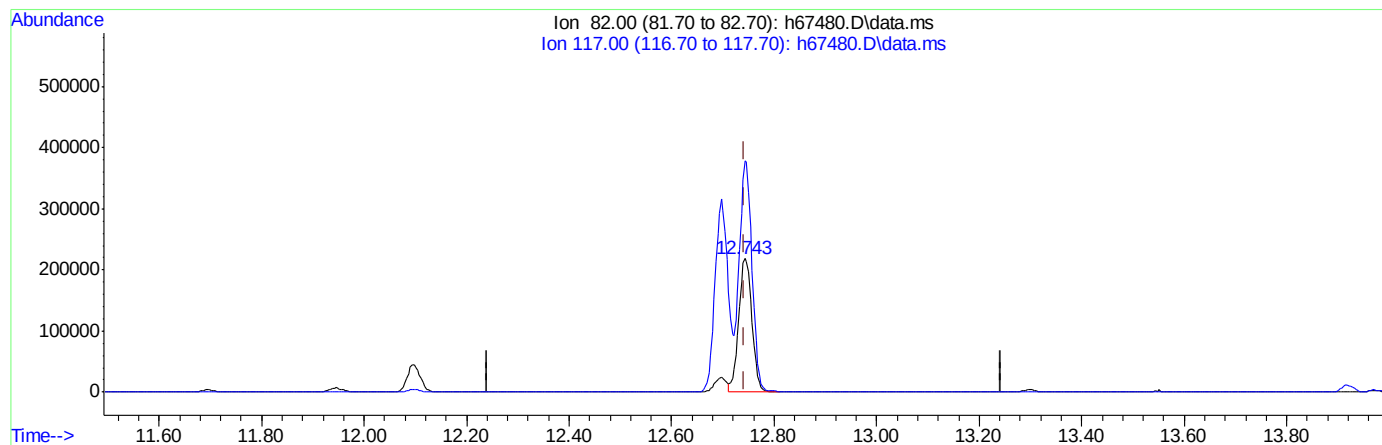
response 432438

Ion	Exp%	Act%
82.00	100	100
117.00	202.40	173.59
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\140716\
Data File : h67480.D
Acq On : 16 Jul 2014 4:45 pm
Operator : jaclynb
Sample : ic2244-200
Misc : ms32261,msh2244,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 17 10:35:42 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 10:16:09 2014
Response via : Initial Calibration



(66) chlorobenzene-d5 (I)

12.743min (+0.001) 50.00ug/L m

response 390074

Ion	Exp%	Act%
82.00	100	100
117.00	202.40	173.59
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\140716\
 Data File : h67481.D
 Acq On : 16 Jul 2014 5:13 pm
 Operator : jaclynb
 Sample : ic2244-400
 Misc : ms32261,msh2244,,,,5,1
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 17 12:18:34 2014
 Quant Method : C:\msdchem\1\METHODS\H140716W.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu Jul 17 10:16:09 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.196	65	130713	500.00	ug/L	0.00
4) pentafluorobenzene	8.624	168	433271	50.00	ug/L	0.00
42) 1,4-difluorobenzene	9.492	114	739850	50.00	ug/L	0.00
66) chlorobenzene-d5	12.742	82	387175m	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.311	152	313899	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.261	113	1668504	320.00	ug/L	0.00
Spiked Amount 50.000	Range 70	- 130	Recovery	=	640.00%#	
60) toluene-d8 (s)	11.285	98	5514496	320.00	ug/L	0.00
Spiked Amount 50.000	Range 70	- 130	Recovery	=	640.00%#	
82) bromofluorobenzene (s)	13.974	95	2467419	320.00	ug/L	0.00
Spiked Amount 50.000	Range 70	- 130	Recovery	=	640.00%#	
Target Compounds						
					Qvalue	
2) tertiary butyl alcohol	6.281	59	1374202	4000.00	ug/L	92
3) Ethanol	5.095	45	1678486	40000.00	ug/L	100
5) dichlorodifluoromethane	4.033	85	1186136	400.00	ug/L	99
7) vinyl chloride	4.510	62	1178317	400.00	ug/L	96
8) bromomethane	4.982	96	1078961	400.00	ug/L	97
9) chloroethane	5.127	64	1077408	400.00	ug/L	96
10) acetonitrile	5.720	41	257141	400.00	ug/L	72
11) trichlorofluoromethane	5.748	101	2563974	400.00	ug/L	99
12) freon-113	6.472	101	1476789	400.00	ug/L	85
13) acrolein	5.692	56	966694	2000.00	ug/L	99
14) 1,1-dichloroethene	6.292	96	1465655	400.00	ug/L #	73
15) acetone	5.829	58	149026	400.00	ug/L	93
16) ethyl ether	5.935	59	1354195	400.00	ug/L	82
17) methyl acetate	6.454	43	1168430	400.00	ug/L	86
18) methylene chloride	6.457	84	1691509	400.00	ug/L #	65
19) methyl tert butyl ether	7.209	73	4398752	400.00	ug/L	85
21) allyl chloride	6.524	41	3121854	400.00	ug/L	86
22) trans-1,2-dichloroethene	7.117	96	1647810	400.00	ug/L #	78
23) iodomethane	6.373	142	2289297	400.00	ug/L	95
25) propionitrile	7.364	54	221316	400.00	ug/L	100
26) vinyl acetate	7.463	43	3724071	400.00	ug/L	92
27) chloroprene	7.728	53	3059125	400.00	ug/L	91
28) di-isopropyl ether	7.777	45	5910199	400.00	ug/L	86
29) methacrylonitrile	7.880	41	1057860	400.00	ug/L	97
30) 2-butanone	7.770	72	151129	400.00	ug/L #	1
31) 1,1-dichloroethane	7.364	63	3272099	400.00	ug/L	94
32) tert-butyl ethyl ether	8.172	59	5427826	400.00	ug/L	90
33) Hexane	7.752	41	2604228	400.00	ug/L	87
34) isobutyl alcohol	8.176	43	892469	2000.00	ug/L	80
35) 2,2-dichloropropane	8.225	77	2595503	400.00	ug/L	96
36) cis-1,2-dichloroethene	7.936	96	1832244	400.00	ug/L #	81
37) ethyl acetate	8.077	43	1204111	400.00	ug/L	84
38) bromochloromethane	8.102	128	833914	400.00	ug/L #	45
39) chloroform	8.141	83	2978749	400.00	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\140716\
 Data File : h67481.D
 Acq On : 16 Jul 2014 5:13 pm
 Operator : jaclynb
 Sample : ic2244-400
 Misc : ms32261,msh2244,,,,5,1
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 17 12:18:34 2014
 Quant Method : C:\msdchem\1\METHODS\H140716W.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu Jul 17 10:16:09 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) 1,1,1-trichloroethane	8.892	97	2802883	400.00	ug/L	94
43) cyclohexane	9.171	56	3278864	400.00	ug/L #	68
44) carbon tetrachloride	9.252	117	2358378	400.00	ug/L	95
45) 1,1-dichloropropene	9.062	75	2269370	400.00	ug/L	92
46) benzene	9.288	78	6047226	400.00	ug/L	98
47) tetrahydrofuran	8.462	42	478583	400.00	ug/L	86
48) 1,2-dichloroethane	8.786	62	2673814	400.00	ug/L	97
49) tert-amyl methyl ether	9.411	73	4205878	400.00	ug/L	89
50) heptane	9.774	43	2687044	400.00	ug/L	89
51) trichloroethene	9.909	95	1748974	400.00	ug/L	77
52) 1,2-dichloropropane	9.873	63	1710557	400.00	ug/L	95
53) dibromomethane	9.845	93	1037146	400.00	ug/L	90
54) bromodichloromethane	9.962	83	2578038	400.00	ug/L	96
55) methylcyclohexane	10.427	83	2717591	400.00	ug/L #	78
56) 2-chloroethyl vinyl ether	10.339	63	930162	400.00	ug/L	90
57) methyl methacrylate	10.060	69	984977	400.00	ug/L	81
58) 1,4-dioxane	10.053	88	71435	2000.00	ug/L	84
59) cis-1,3-dichloropropene	10.583	75	2858830	400.00	ug/L	91
61) 4-methyl-2-pentanone	10.671	43	1761682	400.00	ug/L	95
62) toluene	11.359	92	3834820	400.00	ug/L	99
63) trans-1,3-dichloropropene	11.003	75	2691427	400.00	ug/L	98
64) 1,1,2-trichloroethane	11.172	83	1225975	400.00	ug/L	93
65) ethyl methacrylate	11.384	69	1796453	400.00	ug/L	98
67) tetrachloroethene	12.096	166	1582780	491.42	ug/L	98
68) 1,3-dichloropropane	11.408	76	2357843	491.42	ug/L	98
69) dibromochloromethane	11.698	129	1860482	491.42	ug/L	98
70) 1,2-dibromoethane	11.945	107	1589396	491.42	ug/L	95
71) 2-hexanone	11.532	43	1219152	491.42	ug/L	99
72) chlorobenzene	12.778	112	4455001	491.42	ug/L	88
73) 1,1,1,2-tetrachloroethane	12.700	131	1604099	491.42	ug/L	95
74) ethylbenzene	12.957	91	7782634	491.42	ug/L	94
75) m,p-xylene	13.145	106	5172646	982.85	ug/L	88
77) styrene	13.483	104	4907723	491.42	ug/L	93
78) bromoform	13.300	173	1130248	491.42	ug/L	99
79) trans-1,4-dichloro-2-b...	13.706	53	578562	491.42	ug/L	93
81) isopropylbenzene	13.921	105	7605481	400.00	ug/L	96
83) bromobenzene	14.200	156	1828654	400.00	ug/L #	72
84) 1,1,2,2-tetrachloroethane	13.561	83	1502858	400.00	ug/L	97
85) 1,2,3-trichloropropane	13.706	75	2030066	400.00	ug/L	96
86) n-propylbenzene	14.365	91	8861795	400.00	ug/L	92
87) 2-chlorotoluene	14.482	91	5760261	400.00	ug/L	84
88) 4-chlorotoluene	14.556	91	6070593	400.00	ug/L	84
89) 1,3,5-trimethylbenzene	14.648	105	6768543	400.00	ug/L	95
90) tert-butylbenzene	14.951	91	4072680	400.00	ug/L	81
91) 1,2,4-trimethylbenzene	15.057	105	6620476	400.00	ug/L	94
92) sec-butylbenzene	15.174	105	8344753	400.00	ug/L	94
93) 1,3-dichlorobenzene	15.272	146	3553525	400.00	ug/L	93
94) p-isopropyltoluene	15.350	119	6098614	400.00	ug/L	93
95) 1,4-dichlorobenzene	15.339	146	3047736	400.00	ug/L	94
96) 1,2-dichlorobenzene	15.706	146	3371693	400.00	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\140716\
Data File : h67481.D
Acq On : 16 Jul 2014 5:13 pm
Operator : jaclynb
Sample : ic2244-400
Misc : ms32261,msh2244,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 17 12:18:34 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 10:16:09 2014
Response via : Initial Calibration

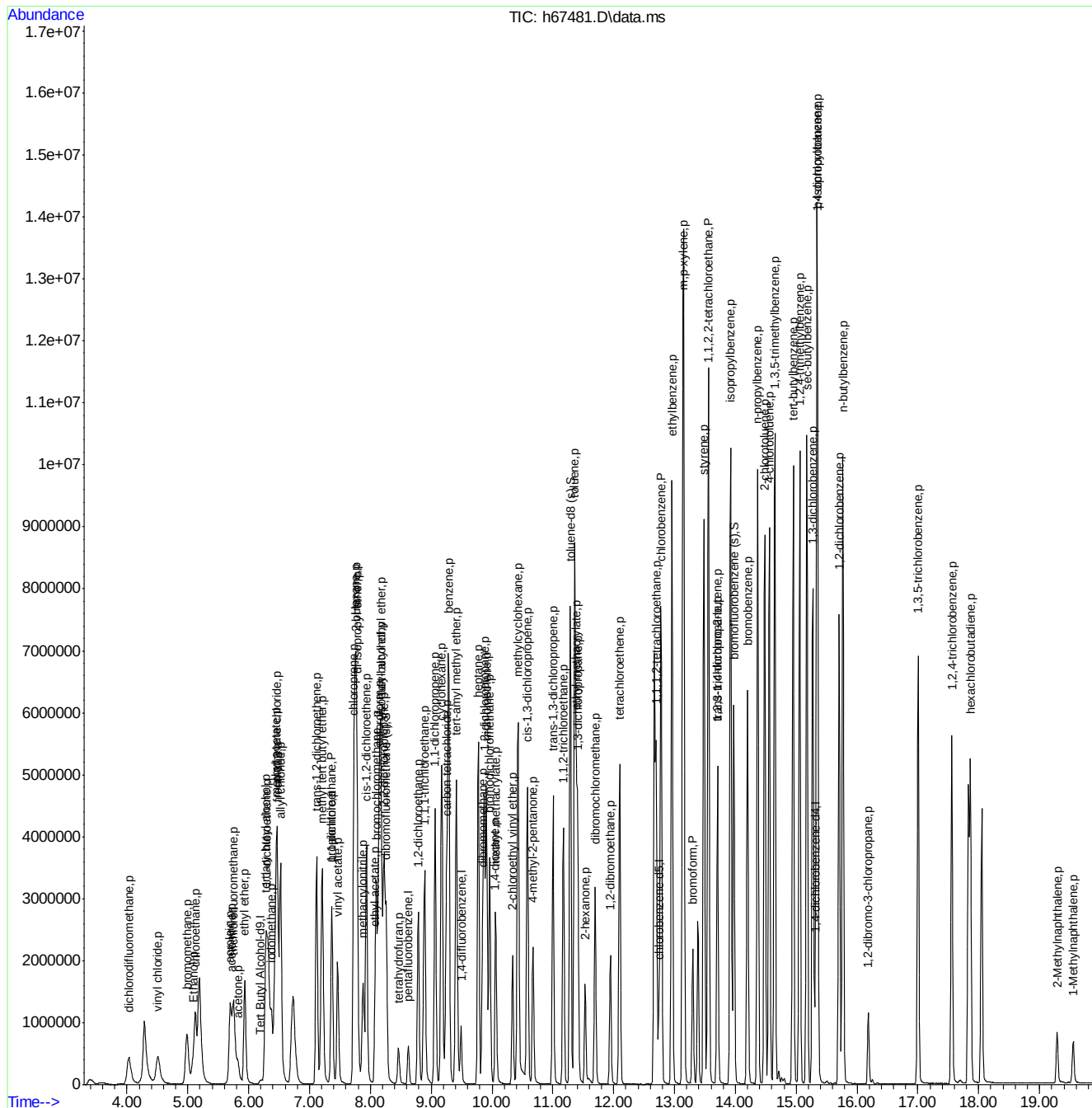
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97) n-butylbenzene	15.766	91	6539205	400.00	ug/L	87
98) 1,2-dibromo-3-chloropr...	16.183	75	331651	400.00	ug/L	77
99) 1,3,5-trichlorobenzene	17.005	180	2341952	400.00	ug/L	97
100) 1,2,4-trichlorobenzene	17.555	180	1980103	400.00	ug/L	99
101) hexachlorobutadiene	17.863	225	1107010	400.00	ug/L	98
104) 2-Methylnaphthalene	19.288	142	537805	200.00	ug/L	92
105) 1-Methylnaphthalene	19.553	TIC	1498906	200.00	ug/L #	81

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\140716\
Data File : h67481.D
Acq On : 16 Jul 2014 5:13 pm
Operator : jaclynb
Sample : ic2244-400
Misc : ms32261,msh2244,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 17 12:18:34 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 10:16:09 2014
Response via : Initial Calibration



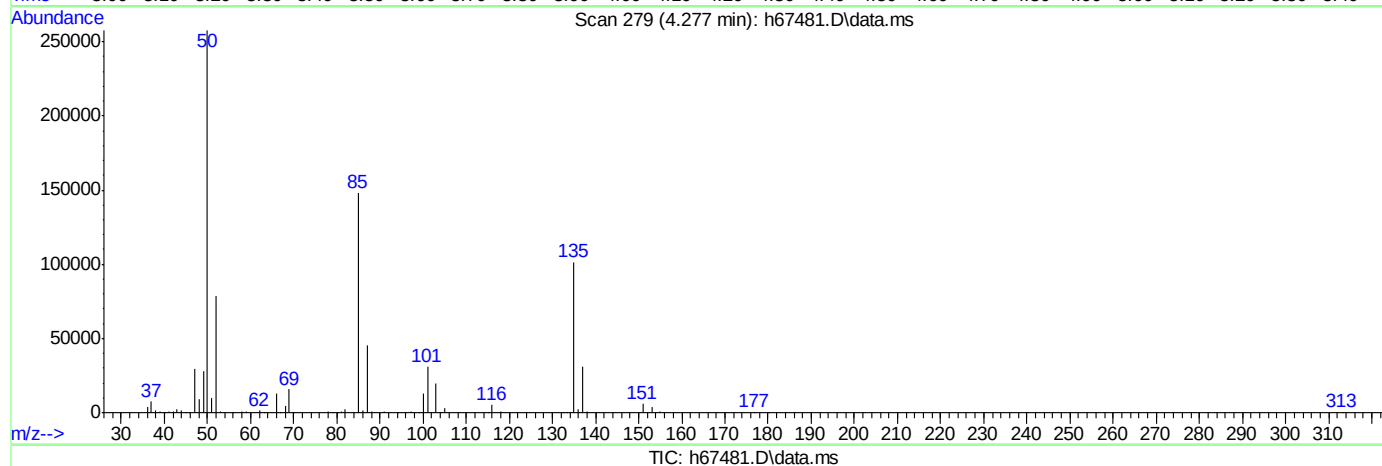
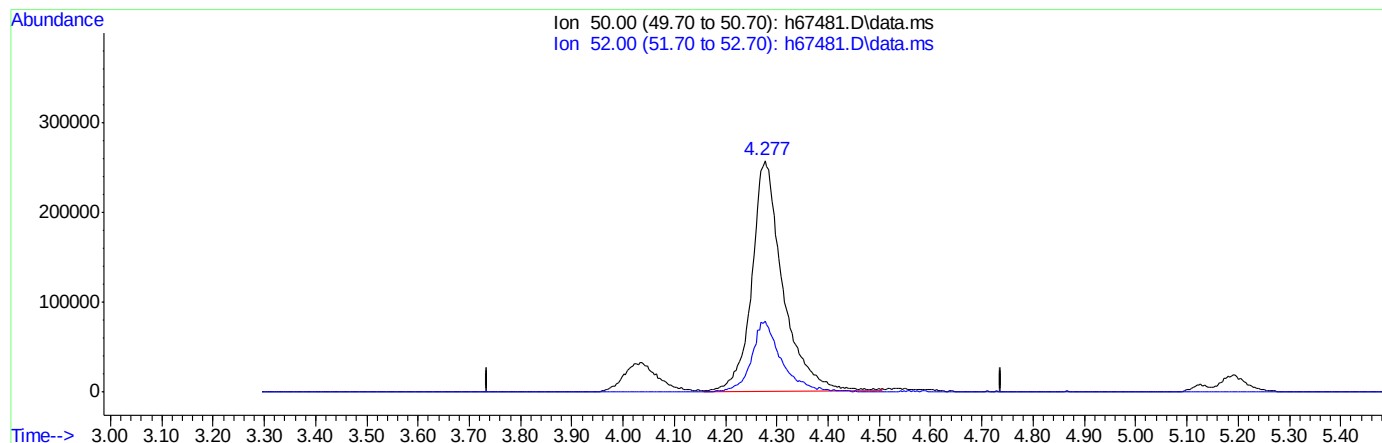
H140716W.M Thu Jul 17 17:30:31 2014

Page: 4

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\140716\
Data File : h67481.D
Acq On : 16 Jul 2014 5:13 pm
Operator : jaclynb
Sample : ic2244-400
Misc : ms32261,msh2244,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 17 10:16:48 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 10:16:09 2014
Response via : Initial Calibration



(6) chloromethane (P)

4.277min (+0.010) 0.00ug/L m

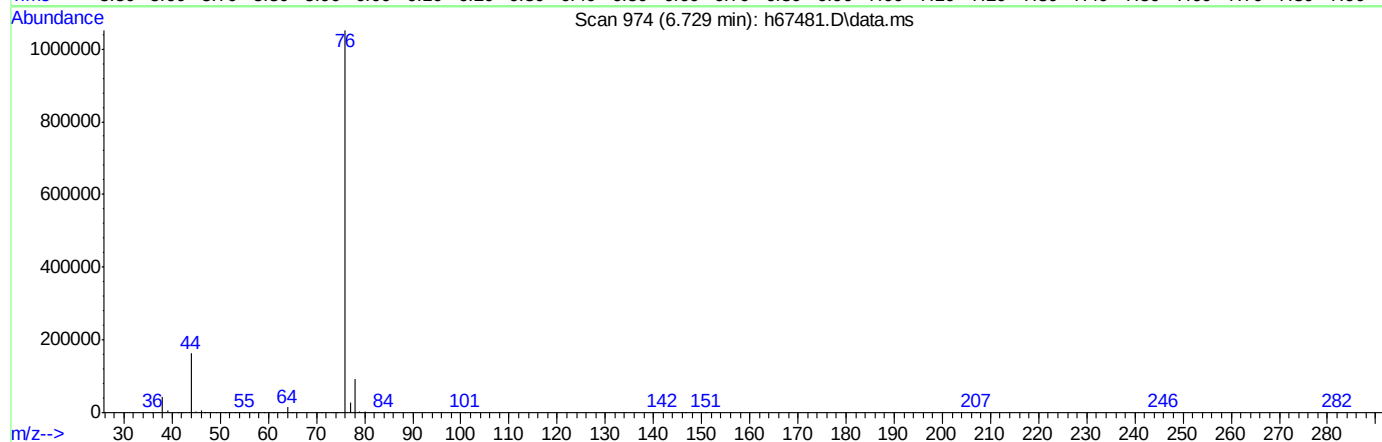
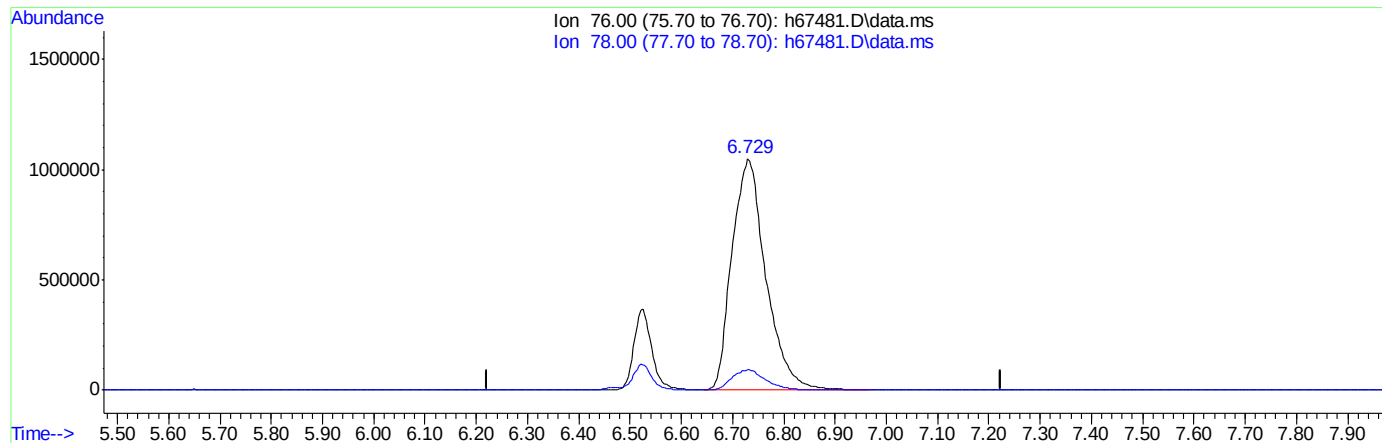
response 1086286

Ion	Exp%	Act%
50.00	100	100
52.00	31.70	30.64
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\140716\
Data File : h67481.D
Acq On : 16 Jul 2014 5:13 pm
Operator : jaclynb
Sample : ic2244-400
Misc : ms32261,msh2244,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 17 10:16:48 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 10:16:09 2014
Response via : Initial Calibration



TIC: h67481.D\data.ms

(24) carbon disulfide (p)

6.729min (+0.006) 0.00ug/L m

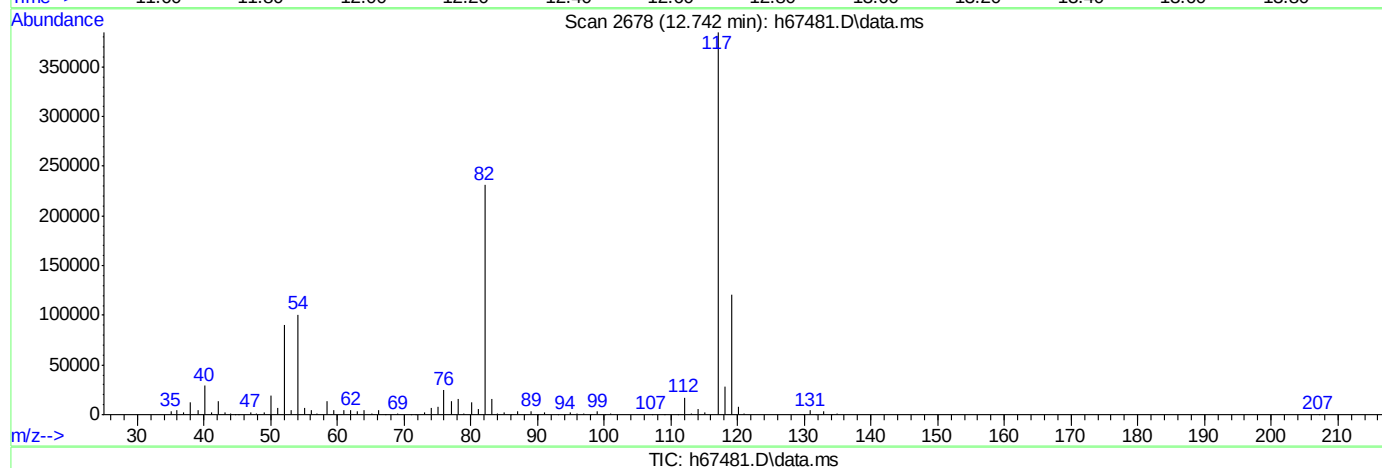
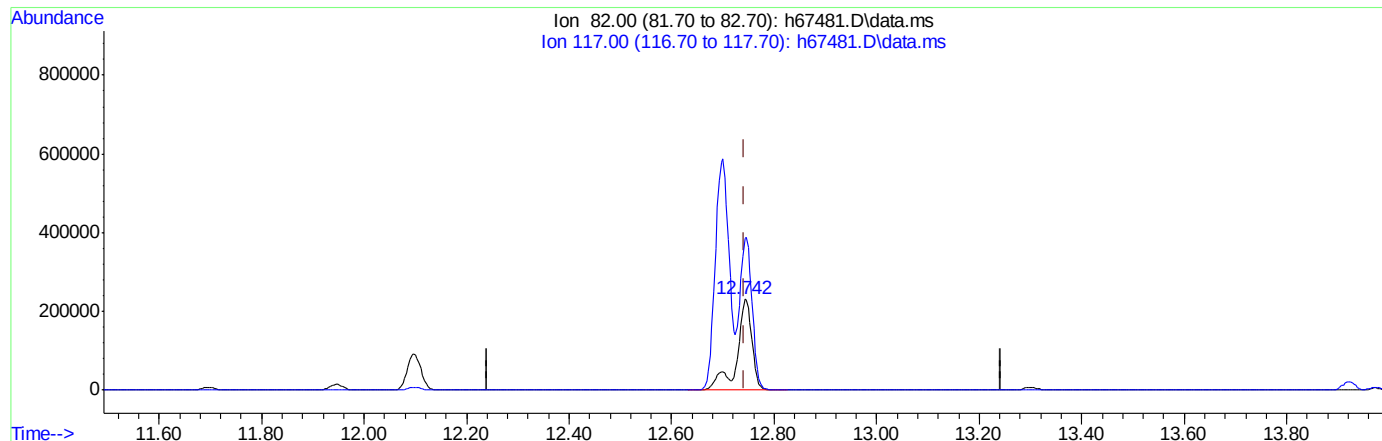
response 4819044

Ion	Exp%	Act%
76.00	100	100
78.00	10.10	8.82
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\140716\
Data File : h67481.D
Acq On : 16 Jul 2014 5:13 pm
Operator : jaclynb
Sample : ic2244-400
Misc : ms32261,msh2244,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 17 10:37:16 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 10:16:09 2014
Response via : Initial Calibration



(66) chlorobenzene-d5 (I)

12.742min (0.000) 50.00ug/L

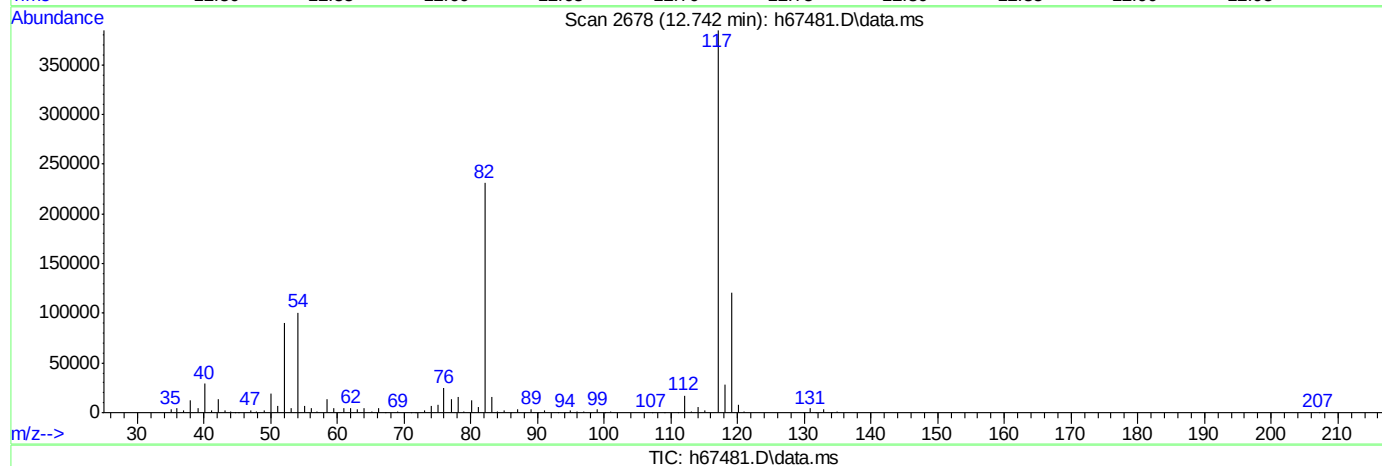
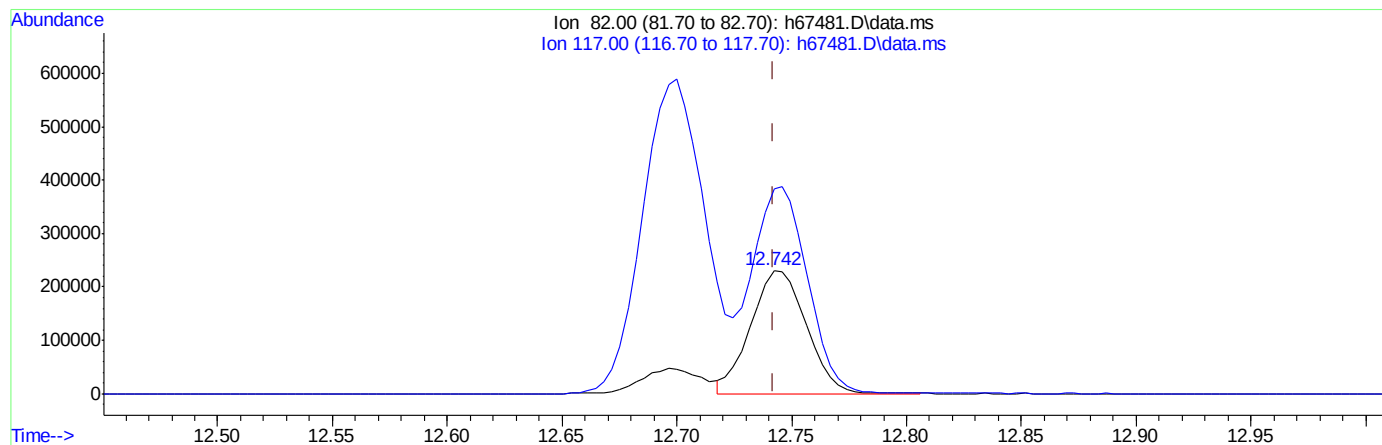
response 475668

Ion	Exp%	Act%
82.00	100	100
117.00	202.40	166.60#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\140716\
Data File : h67481.D
Acq On : 16 Jul 2014 5:13 pm
Operator : jaclynb
Sample : ic2244-400
Misc : ms32261,msh2244,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jul 17 10:37:16 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 10:16:09 2014
Response via : Initial Calibration



(66) chlorobenzene-d5 (I)

12.742min (0.000) 50.00ug/L m

response 387175

Ion	Exp%	Act%
82.00	100	100
117.00	202.40	166.60#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\140717\
 Data File : h67492.D
 Acq On : 17 Jul 2014 1:41 pm
 Operator : amym
 Sample : icv2244-50
 Misc : ms32261,msh2244,,,,5,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 17 17:34:00 2014
 Quant Method : C:\msdchem\1\METHODS\H140716W.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu Jul 17 13:39:42 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.198	65	132557	50.00	ug/L	0.00
4) pentafluorobenzene	8.626	168	420595	50.00	ug/L	0.00
42) 1,4-difluorobenzene	9.490	114	710770	50.00	ug/L	0.00
66) chlorobenzene-d5	12.744	82	407718	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.309	152	307965	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.262	113	234046	51.61	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	103.22%		
60) toluene-d8 (s)	11.287	98	864212	54.13	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	108.26%		
82) bromofluorobenzene (s)	13.972	95	359242	50.63	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	101.26%		
Target Compounds						
						Qvalue
2) tertiary butyl alcohol	6.283	59	165623	471.36	ug/L	97
3) Ethanol	5.101	45	192507	5083.10	ug/L	96
5) dichlorodifluoromethane	4.031	85	140933	48.43	ug/L	95
6) chloromethane	4.289	50	178707	49.18	ug/L	96
7) vinyl chloride	4.515	62	173669	50.52	ug/L	91
8) bromomethane	4.981	96	146388	49.42	ug/L	94
9) chloroethane	5.122	64	145988	50.49	ug/L	94
10) acetonitrile	5.725	41	24701	40.35	ug/L	75
11) trichlorofluoromethane	5.707	101	338229	52.89	ug/L	96
12) freon-113	6.473	101	197959	49.66	ug/L	86
13) acrolein	5.704	56	110862	260.10	ug/L	98
14) 1,1-dichloroethene	6.283	96	184620	46.00	ug/L #	75
15) acetone	5.845	58	17923	49.30	ug/L	87
16) ethyl ether	5.944	59	174178	49.35	ug/L	79
17) methyl acetate	6.463	43	144843	46.27	ug/L	83
18) methylene chloride	6.434	84	235758	48.69	ug/L #	64
19) methyl tert butyl ether	7.207	73	569339	51.88	ug/L	83
20) acrylonitrile	6.350	53	75269	54.06	ug/L	89
21) allyl chloride	6.530	41	407646	46.87	ug/L	86
22) trans-1,2-dichloroethene	7.123	96	224060	49.25	ug/L	83
23) iodomethane	6.371	142	315916	53.10	ug/L	94
24) carbon disulfide	6.710	76	568727	45.15	ug/L	97
25) propionitrile	7.380	54	26306	51.14	ug/L	100
26) vinyl acetate	7.468	43	597531	69.55	ug/L	92
27) chloroprene	7.733	53	367096	43.31	ug/L	89
28) di-isopropyl ether	7.775	45	881114	52.97	ug/L	83
29) methacrylonitrile	7.885	41	127176	52.04	ug/L	90
30) 2-butanone	7.786	72	20763	53.33	ug/L #	47
31) 1,1-dichloroethane	7.370	63	439588	50.99	ug/L	93
32) tert-butyl ethyl ether	8.171	59	738073	51.08	ug/L	88
33) Hexane	7.754	41	386773	49.47	ug/L #	88
34) isobutyl alcohol	8.167	43	135826	273.02	ug/L	89
35) 2,2-dichloropropane	8.227	77	340766	51.77	ug/L	98
36) cis-1,2-dichloroethene	7.938	96	249376	49.47	ug/L #	81

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\140717\
 Data File : h67492.D
 Acq On : 17 Jul 2014 1:41 pm
 Operator : amym
 Sample : icv2244-50
 Misc : ms32261,msh2244,,,,5,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 17 17:34:00 2014
 Quant Method : C:\msdchem\1\METHODS\H140716W.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu Jul 17 13:39:42 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) ethyl acetate	8.082	43	148916	54.43	ug/L	78
38) bromochloromethane	8.100	128	110852	49.05	ug/L #	39
39) chloroform	8.139	83	430543	53.13	ug/L	97
41) 1,1,1-trichloroethane	8.890	97	373362	50.87	ug/L	93
43) cyclohexane	9.173	56	443385	49.80	ug/L #	70
44) carbon tetrachloride	9.254	117	299985	54.03	ug/L	93
45) 1,1-dichloropropene	9.063	75	312084	51.48	ug/L	93
46) benzene	9.286	78	874815	50.26	ug/L	97
47) tetrahydrofuran	8.471	42	61170	49.61	ug/L	85
48) 1,2-dichloroethane	8.788	62	340887	50.36	ug/L	99
49) tert-amyl methyl ether	9.413	73	570933	53.41	ug/L	87
50) heptane	9.773	43	375028	49.11	ug/L	85
51) trichloroethene	9.907	95	255604	49.78	ug/L	75
52) 1,2-dichloropropane	9.871	63	254490	52.14	ug/L	94
53) dibromomethane	9.847	93	140756	50.37	ug/L	88
54) bromodichloromethane	9.963	83	318617	51.28	ug/L	92
55) methylcyclohexane	10.426	83	367507	49.76	ug/L #	78
57) methyl methacrylate	10.066	69	126410	52.61	ug/L	81
58) 1,4-dioxane	10.073	88	7536	231.89	ug/L #	63
59) cis-1,3-dichloropropene	10.584	75	376670	53.34	ug/L	91
61) 4-methyl-2-pentanone	10.676	43	225355	52.83	ug/L	93
62) toluene	11.361	92	566125	51.94	ug/L	98
63) trans-1,3-dichloropropene	11.004	75	315102	50.64	ug/L	99
64) 1,1,2-trichloroethane	11.174	83	174722	54.55	ug/L	96
65) ethyl methacrylate	11.385	69	258938	54.50	ug/L	96
67) tetrachloroethene	12.098	166	225865	48.49	ug/L	99
68) 1,3-dichloropropane	11.410	76	340105	51.24	ug/L	97
69) dibromochloromethane	11.699	129	219523	51.75	ug/L	94
70) 1,2-dibromoethane	11.943	107	205832	50.48	ug/L	94
71) 2-hexanone	11.537	43	135011	46.95	ug/L	100
72) chlorobenzene	12.776	112	626225	48.41	ug/L	89
73) 1,1,1,2-tetrachloroethane	12.698	131	213848	50.42	ug/L	93
74) ethylbenzene	12.959	91	1121475	49.14	ug/L	96
75) m,p-xylene	13.143	106	829132	96.91	ug/L	96
76) o-xylene	13.556	106	414089	47.28	ug/L	93
77) styrene	13.481	104	648090	47.86	ug/L	95
78) bromoform	13.301	173	122192	43.97	ug/L	98
79) trans-1,4-dichloro-2-b...	13.711	53	66281	46.85	ug/L #	84
81) isopropylbenzene	13.919	105	1057203	47.00	ug/L	97
83) bromobenzene	14.201	156	247027	49.47	ug/L #	70
84) 1,1,2,2-tetrachloroethane	13.556	83	240411	49.98	ug/L	94
85) 1,2,3-trichloropropane	13.707	75	268722	52.14	ug/L	94
86) n-propylbenzene	14.364	91	1276049	51.07	ug/L	92
87) 2-chlorotoluene	14.480	91	793217	47.34	ug/L	86
88) 4-chlorotoluene	14.554	91	838135	50.87	ug/L	86
89) 1,3,5-trimethylbenzene	14.646	105	947684	48.37	ug/L	96
90) tert-butylbenzene	14.946	91	561780	47.46	ug/L	81
91) 1,2,4-trimethylbenzene	15.055	105	932515	50.16	ug/L	95
92) sec-butylbenzene	15.172	105	1164909	48.13	ug/L	94
93) 1,3-dichlorobenzene	15.271	146	459410	49.08	ug/L	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\140717\
 Data File : h67492.D
 Acq On : 17 Jul 2014 1:41 pm
 Operator : amym
 Sample : icv2244-50
 Misc : ms32261,msh2244,,,,5,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 17 17:34:00 2014
 Quant Method : C:\msdchem\1\METHODS\H140716W.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu Jul 17 13:39:42 2014
 Response via : Initial Calibration

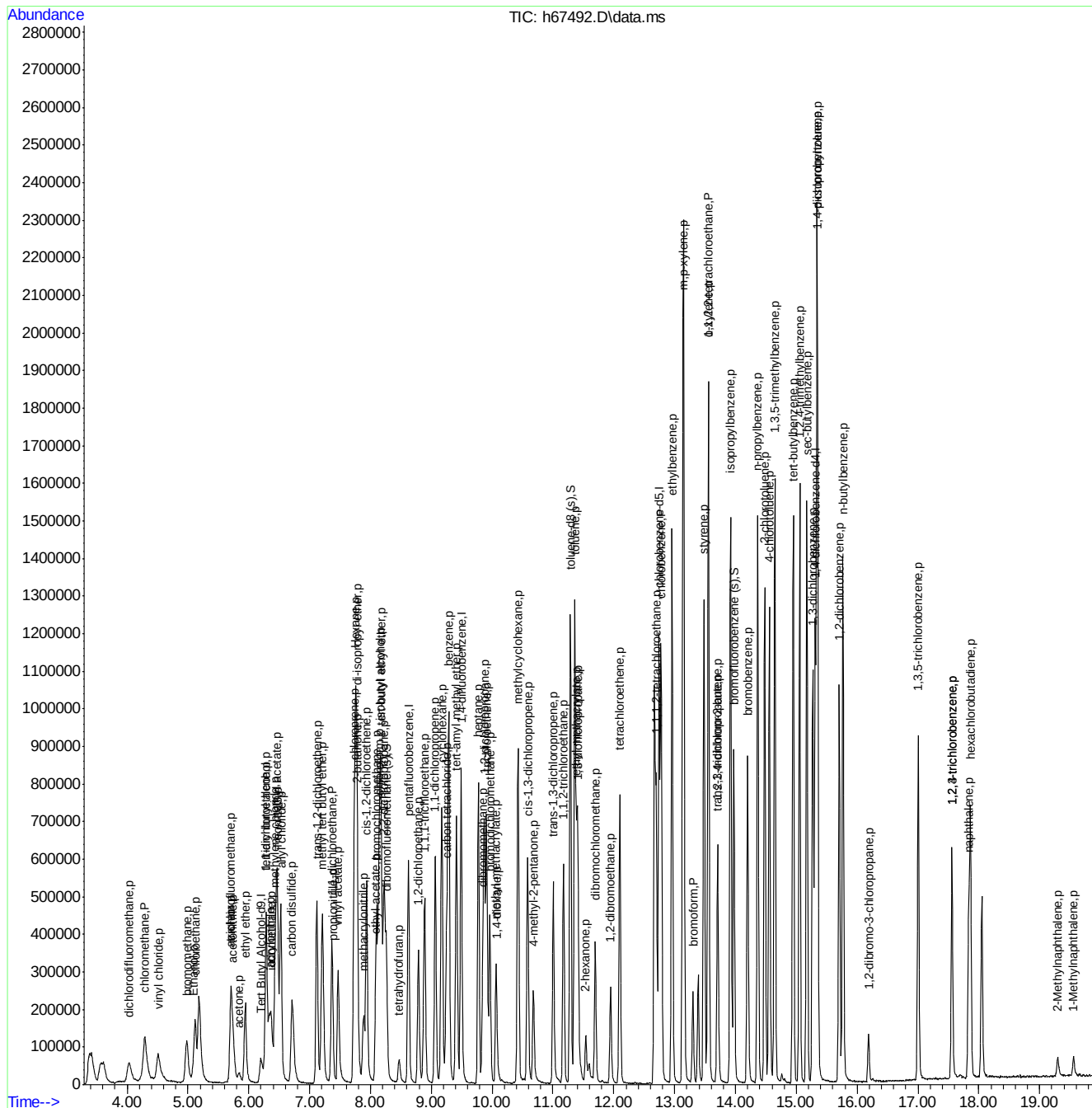
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) p-isopropyltoluene	15.348	119	917274	49.57	ug/L	94
95) 1,4-dichlorobenzene	15.338	146	456052	48.99	ug/L	95
96) 1,2-dichlorobenzene	15.705	146	449327	48.71	ug/L	97
97) n-butylbenzene	15.768	91	867374	51.60	ug/L	87
98) 1,2-dibromo-3-chloropr...	16.188	75	38801	52.38	ug/L #	72
99) 1,3,5-trichlorobenzene	17.003	180	299598	51.70	ug/L	98
100) 1,2,4-trichlorobenzene	17.561	180	212346	45.83	ug/L	99
101) hexachlorobutadiene	17.861	225	141538	46.72	ug/L	95
102) naphthalene	17.832	128	418045	44.27	ug/L	100
103) 1,2,3-trichlorobenzene	17.561	180	212346	45.83	ug/L	97
104) 2-Methylnaphthalene	19.297	142	37303	21.30	ug/L	93
105) 1-Methylnaphthalene	19.555	TIC	150426	22.75	ug/L	96

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

Quantitation Report (QT Reviewed)

```
Data Path   : C:\msdchem\1\DATA\140717\
Data File  : h67492.D
Acq On     : 17 Jul 2014    1:41 pm
Operator   : amym
Sample     : icv2244-50
Misc       : ms32261,msh2244,,,,5,1
ALS Vial   : 4      Sample Multiplier: 1
```

Quant Time: Jul 17 17:34:00 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 13:39:42 2014
Response via : Initial Calibration



H140716W.M Thu Jul 17 17:35:25 2014

Page: 4

7.6.11



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\140728\
 Data File : h67780.D
 Acq On : 28 Jul 2014 9:00 am
 Operator : amym
 Sample : cc2244-50
 Misc : ms32366,msh2253,,,,5,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 28 09:42:05 2014
 Quant Method : C:\msdchem\1\METHODS\H140716W.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu Jul 17 13:39:42 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	6.202	65	88843	50.00	ug/L	0.00
4) pentafluorobenzene	8.626	168	294744	50.00	ug/L	0.00
42) 1,4-difluorobenzene	9.494	114	533886	50.00	ug/L	0.00
66) chlorobenzene-d5	12.744	82	300348	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.310	152	228339	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.259	113	184595	58.09	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	116.18%		
60) toluene-d8 (s)	11.287	98	635135	52.96	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	105.92%		
82) bromofluorobenzene (s)	13.972	95	253574	48.20	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	96.40%		
Target Compounds						
						Qvalue
2) tertiary butyl alcohol	6.287	59	121746	516.98	ug/L	90
3) Ethanol	5.112	45	160620	6327.93	ug/L	98
5) dichlorodifluoromethane	4.049	85	83870	41.12	ug/L	86
6) chloromethane	4.296	50	178220	71.58	ug/L	95
7) vinyl chloride	4.512	62	166549	69.14	ug/L	92
8) bromomethane	4.988	96	109024	52.52	ug/L	99
9) chloroethane	5.119	64	118681	58.57	ug/L	99
10) acetonitrile	5.747	41	23747	54.46	ug/L	63
11) trichlorofluoromethane	5.715	101	227213	50.70	ug/L	100
12) freon-113	6.477	101	142565	51.03	ug/L	82
13) acrolein	5.704	56	86262	288.80	ug/L	99
14) 1,1-dichloroethene	6.287	96	141328	50.25	ug/L #	60
15) acetone	5.849	58	13794	54.15	ug/L #	71
16) ethyl ether	5.941	59	125350	50.68	ug/L	82
17) methyl acetate	6.467	43	137060	62.48	ug/L	80
18) methylene chloride	6.442	84	177615	52.35	ug/L #	48
19) methyl tert butyl ether	7.211	73	339109	44.09	ug/L	79
20) acrylonitrile	6.350	53	62561	64.12	ug/L	85
21) allyl chloride	6.527	41	355760	58.37	ug/L	79
22) trans-1,2-dichloroethene	7.119	96	154475	48.45	ug/L #	73
23) iodomethane	6.361	142	200999	48.21	ug/L	92
24) carbon disulfide	6.714	76	417625	47.32	ug/L	97
25) propionitrile	7.388	54	18359	50.94	ug/L	100
26) vinyl acetate	7.469	43	327617	54.42	ug/L	88
27) chloroprene	7.734	53	317798	53.50	ug/L	91
28) di-isopropyl ether	7.776	45	716272	61.44	ug/L	84
29) methacrylonitrile	7.882	41	98144	57.31	ug/L	86
30) 2-butanone	7.783	72	14040	51.46	ug/L #	1
31) 1,1-dichloroethane	7.367	63	340743	56.40	ug/L	90
32) tert-butyl ethyl ether	8.168	59	532609	52.60	ug/L	86
33) Hexane	7.758	41	308249	56.26	ug/L #	94
34) isobutyl alcohol	8.171	43	102063	292.75	ug/L #	66
35) 2,2-dichloropropane	8.228	77	225641	48.91	ug/L	96
36) cis-1,2-dichloroethene	7.935	96	177172	50.16	ug/L #	72

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\140728\
 Data File : h67780.D
 Acq On : 28 Jul 2014 9:00 am
 Operator : amym
 Sample : cc2244-50
 Misc : ms32366,msh2253,,,,5,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 28 09:42:05 2014
 Quant Method : C:\msdchem\1\METHODS\H140716W.M
 Quant Title : SW-846 Method 8260
 QLast Update : Thu Jul 17 13:39:42 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) ethyl acetate	8.086	43	108541	56.61	ug/L	84
38) bromochloromethane	8.104	128	80654	50.93	ug/L #	28
39) chloroform	8.143	83	303299	53.40	ug/L	100
41) 1,1,1-trichloroethane	8.887	97	228433	44.42	ug/L	89
43) cyclohexane	9.177	56	311702	46.61	ug/L #	68
44) carbon tetrachloride	9.254	117	192780	46.23	ug/L	97
45) 1,1-dichloropropene	9.067	75	217239	47.71	ug/L	92
46) benzene	9.290	78	641479	49.06	ug/L	100
47) tetrahydrofuran	8.467	42	41421	44.72	ug/L	77
48) 1,2-dichloroethane	8.789	62	243149	47.83	ug/L	97
49) tert-amyl methyl ether	9.413	73	349989	43.59	ug/L	83
50) heptane	9.773	43	282132	49.19	ug/L	80
51) trichloroethene	9.911	95	176047	45.64	ug/L	76
52) 1,2-dichloropropane	9.872	63	198008	54.00	ug/L	93
53) dibromomethane	9.844	93	102193	48.69	ug/L	87
54) bromodichloromethane	9.960	83	231853	49.68	ug/L	95
55) methylcyclohexane	10.426	83	246354	44.41	ug/L #	73
56) 2-chloroethyl vinyl ether	10.341	63	77556	51.09	ug/L	85
57) methyl methacrylate	10.066	69	81901	45.38	ug/L #	72
58) 1,4-dioxane	10.063	88	5922	242.60	ug/L	89
59) cis-1,3-dichloropropene	10.585	75	268198	50.57	ug/L	88
61) 4-methyl-2-pentanone	10.680	43	174247	54.38	ug/L	86
62) toluene	11.361	92	383336	46.82	ug/L	98
63) trans-1,3-dichloropropene	11.005	75	229802	49.16	ug/L	94
64) 1,1,2-trichloroethane	11.174	83	119373	49.62	ug/L	84
65) ethyl methacrylate	11.386	69	173205	48.53	ug/L	81
67) tetrachloroethene	12.099	166	144843	42.21	ug/L	99
68) 1,3-dichloropropane	11.407	76	236034	48.27	ug/L	97
69) dibromochloromethane	11.693	129	150357	48.12	ug/L	89
70) 1,2-dibromoethane	11.947	107	130497	43.45	ug/L	93
71) 2-hexanone	11.541	43	110340	52.09	ug/L	91
72) chlorobenzene	12.780	112	426955	44.81	ug/L	89
73) 1,1,1,2-tetrachloroethane	12.695	131	148930	47.67	ug/L	87
74) ethylbenzene	12.956	91	741144	44.08	ug/L	96
75) m,p-xylene	13.143	106	548196	86.98	ug/L	95
76) o-xylene	13.552	106	285105	44.19	ug/L	99
77) styrene	13.482	104	432822	43.39	ug/L	95
78) bromoform	13.302	173	84008	41.10	ug/L	99
79) trans-1,4-dichloro-2-b...	13.711	53	49199	47.19	ug/L	95
81) isopropylbenzene	13.919	105	722838	43.34	ug/L	99
83) bromobenzene	14.202	156	159655	43.12	ug/L #	60
84) 1,1,2,2-tetrachloroethane	13.560	83	183606	51.53	ug/L	95
85) 1,2,3-trichloropropane	13.704	75	181039	47.38	ug/L	91
86) n-propylbenzene	14.368	91	836774	45.17	ug/L	91
87) 2-chlorotoluene	14.481	91	533416	42.93	ug/L	88
88) 4-chlorotoluene	14.558	91	555202	45.45	ug/L	87
89) 1,3,5-trimethylbenzene	14.646	105	627720	43.21	ug/L	100
90) tert-butylbenzene	14.950	91	378999	43.18	ug/L	83
91) 1,2,4-trimethylbenzene	15.056	105	607444	44.07	ug/L	95
92) sec-butylbenzene	15.172	105	792901	44.19	ug/L	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\140728\
Data File : h67780.D
Acq On : 28 Jul 2014 9:00 am
Operator : amym
Sample : cc2244-50
Misc : ms32366,msh2253,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 28 09:42:05 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 13:39:42 2014
Response via : Initial Calibration

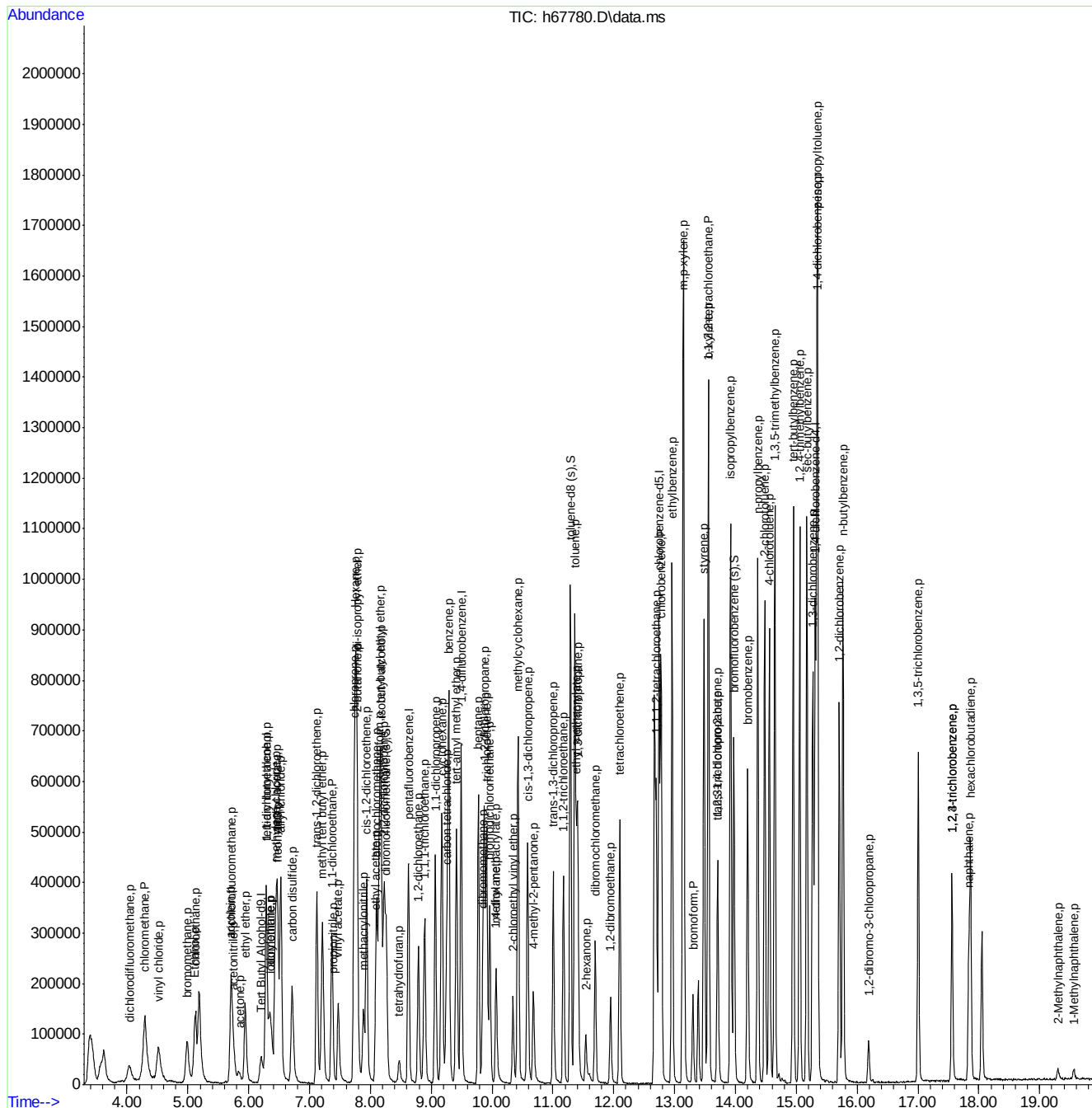
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93)	1,3-dichlorobenzene	15.271	146	316972	45.67	ug/L	95
94)	p-isopropyltoluene	15.349	119	627664	45.74	ug/L	97
95)	1,4-dichlorobenzene	15.342	146	317564	46.01	ug/L	94
96)	1,2-dichlorobenzene	15.709	146	300339	43.92	ug/L	96
97)	n-butylbenzene	15.769	91	594561	47.70	ug/L	88
98)	1,2-dibromo-3-chloropr...	16.189	75	23595	42.96	ug/L #	74
99)	1,3,5-trichlorobenzene	17.004	180	197064	45.87	ug/L	96
100)	1,2,4-trichlorobenzene	17.561	180	132251	38.93	ug/L	100
101)	hexachlorobutadiene	17.865	225	86903	38.68	ug/L	99
102)	naphthalene	17.836	128	228683	33.63	ug/L	100
103)	1,2,3-trichlorobenzene	17.561	180	132251	38.93	ug/L	98
104)	2-Methylnaphthalene	19.301	142	14383	13.42	ug/L	90
105)	1-Methylnaphthalene	19.566	TIC	58826	12.00	ug/L	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\140728\
Data File : h67780.D
Acq On : 28 Jul 2014 9:00 am
Operator : amym
Sample : cc2244-50
Misc : ms32366,msh2253,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 28 09:42:05 2014
Quant Method : C:\msdchem\1\METHODS\H140716W.M
Quant Title : SW-846 Method 8260
QLast Update : Thu Jul 17 13:39:42 2014
Response via : Initial Calibration



VOLATILE ORGANICS BY GC/MS ANALYSIS LOG

Standards Data

Lot #	Description	Conc
MS 9818	V.B. Cal STD	200 ug/ml
9812	Cal Gas	
9791	BS STD	
9784	BS Gas	
9794	2S/5S	250 ug/ml
9811	V.B. 5S	200 ug/ml

Daily Saved File

Tune file 1:	H167479
Tune file 2:	NA
Initial Cal:	07/16/14
ID File:	H146716W
ICAL Verified:	H167482
Sequence verified:	22

Date: 7/16/14
 Batch ID: MSH2244
 Analysts: Am Yang
 Signature: [Signature]

*Note: If sample matrix is soil - method SW846 5035 used for preparation. SW846 5030 is purge and trap method for soil and water

pH paper LOT#202513 exp: 1/15/2016

Data File	Sample ID	Bot No.	Work Group	Test	ALS #	*MTX	Samp Amt.	% Sol	Dil. Fact.	pH	Comments
H167463	blk	NA	NA	NA	1	NA	5ml	NA	1:1	NA	
	64				2						
	65				3						
	66	test 0.5			4						
	67	5			5						
	68	400			6						
	69	blk			7						
	70	RTB			8						
	71	blk (RTB)			9						
	72	IC 2244-0.25	2.2	MS 9818/9812	10						
	73	-0.5			11						
	74	-1			12						
	75	-5			13						
	76	-10			14						
	77	-25			15						
	78	IC 2244-50			16						
	79	IC 2244-100			17						
	80	200			18						
	81	400			19						
	82	blk	NA	NA	20						
	83				21						
	84	IC 2244-50	2.2	MS 9791/9784	22						
	85				23						
	86	blk	NA	NA	24						
	87				25						
	88				26						

MTX = Matrix: Designate W for water, S for soil, O for oil.

Sample amount is reported in grams (wet) for soil and oil, mls for water.

MS001-05 Date: 07/22/13

Review: _____

Standards Data

Lot #	Description	Conc
MS 9818	V260 cal STD	200 µg/ml
9812	cal 60s	
9791	BS STD	
9775	BS 60s	
9794	22/55	200 µg/ml

Daily Saved File

Tune file 1:	H 67482
Tune file 2:	NA
Initial Cal:	07/16/14
ID File:	V140716W
ICAL Verified:	H 67492
Sequence verified:	KD

Date: 7/17/14

Batch ID: MSH 2244

Analysts: Ag Yang

Signature: [Signature]

*Note: If sample matrix is soil - method SW846 5035 used for preparation. SW846 5030 is purge and trap method for soil and water

pH paper LOT#202513 exp: 1/15/2016

Data File	Sample ID	Bot No.	Work Group	Test	ALS #	*MTX	Samp Amt.	% Sol	Dil. Fact.	pH	Comments
H 67489	WLR	NA	NA	NA	1	NA	5ml	NA	1:1	NA	
	90	↓	↓	↓	2						
	91	CC2244-50	2,2	MS 9818/9812	3						
	92	BS (100)		MS 9791/9775	4						✓✓
	93	BSD	↓	↓	5						✓✓
	94	WLR	NA	NA	6						
	95	MLB	↓	↓	7						✓✓
	96	MC31767-6	1	MS 32309 V260TCL	8	MTB				~2	✓✓
	97	MC32166-3	1	↓ V260STD	9	↓					✓✓
	98	MC32096-2	7	MS 32302 V260RCP	10	ATW					✓✓
	99	MC31713-1	4	MS 32	11					22	confirmation run
H 67500	MC32049-1	1	MS 32309	V260MCP	12				1:2	~2	RR=1:20
	01	↓ -2	↓	↓	13				1:1		
	02	↓ -3	↓	↓	14				↓		
	03	MC32096-2	7	MS 32302 V260RCP	15				1:5		
	04	↓ -2	↓	↓	16				↓		
	05	MC32101-1	3	MS 32295 V260SL	17				1:1		
	06	↓ -2	2	↓	18				1:2		
	07	↓ -3	3	↓	19				1:5		RR=1:1
	08	MC32096-1	8	MS 32302 V260RCP	20				1:10		RR=1:10
	09	MC31941-1	2	MS 32309 V260RCP	21				1:1		RR=1:50 Actual
	10	↓ -2	1	↓	22						
	11	MC31966-1	3	V260STD	23						
	12	↓ -2	1	↓	24						
	13	↓ -3	↓	↓	25						
	14	↓ -4	↓	↓	26						
	15	MC32106-5	4	↓	27						
	16	↓ -6	3	↓	28						
	17	MC32166-1	4	V260STD	29						
	18	↓ -2	4	↓	30						out of clock RR
	19	WLR	NA	↓	31						

MTX = Matrix: Designate W for water, S for soil, O for oil.

Sample amount is reported in grams (wet) for soil and oil, mls for water.

MS001-05 Date: 07/22/13

Review: [Signature]

Standards Data

Lot #	Description	Conc
MS 9818	Vadho Cal STD	200 ug/ml
9812	Cal Gas	
9791	BS STD	
9775	BS Gas	
9794	25/55	250 ug/ml

Daily Saved File

Tune file 1:	H 67780
Tune file 2:	NA
Initial Cal:	07/16/14
ID File:	1/1407/6W
ICAL Verified:	✓
Sequence verified:	OK

Date: 7/28/14

Batch ID: MSH 2253

Analysts: Amy Yang

Signature: [Signature]

*Note: If sample matrix is soil - method SW846 5035 used for preparation. SW846 5030 is purge and trap method for soil and water

pH paper LOT#202513 exp: 1/15/2016

Data File	Sample ID	Bot No.	Work Group	Test	ALS #	*MTX	Samp Amt.	% Sol	Dil. Fact.	pH	Comments
H 67779	NA	NA	NA	NA	1		5ml	NA	1:1	NA	
80	CC 2244-ID	2.1	MS 9818/9812		2						
81	BS	2.2	MS 9791/9775		3						
82	BSD				4						
83	NA	NA	NA		5						
84	MB				6						
85	MC32335-9	1	MS 3237	VABORCP	7	NTB					
86	MC32345-13			VABOTUL4	8						
87	↓ -12	↓		↓	9	GW					
88	MC32335-4	9		VABORCP	10						
89	↓ -5	10			11						
90	↓ -6	10			12						
91	↓ -7	9			13						
92	↓ -8	10			14						
93	MC32345-124	2		VABOTUL4	15				1:5		RR=1:10
94	↓ -10MSD	↓			16				↓		
95	MC32120-3	4	MS 32359	VABOTUL	17				1:10		
96	↓ -4	↓			18				1:100		
✓97	MC32216-1	3			19				1:1		H 67796A MC 32175-1
✓98	MC32168-1	3			20				1:10		H 67796B MC 32175-2
99	↓ -3	4			21				1:10000		
H 67800	↓ -4	4			22				1:10000		
01	↓ -2	3			23				1:100		RR=1:2000
02	MC32216-2	4			24				1:50		
03	↓ -3	3			25				1:1000		
96A04	MC2175-1	3	MS 32319	VABOTUL	26				1:1		
96B05	↓ -2	2			27				↓		
04	NA	NA	NA		28				1:1	NA	
05	↓	↓			29				↓		
06					30						
07					31						

MTX = Matrix: Designate W for water, S for soil, O for oil.

Sample amount is reported in grams (wet) for soil and oil, mls for water.

MS001-05 Date: 07/22/13

Review: [Signature]

Metals Analysis

QC Data Summaries

∞

Includes the following where applicable:

- Instrument Runlogs
- Initial and Continuing Calibration Blanks
- Initial and Continuing Calibration Checks
- High and Low Check Standards
- Interfering Element Check Standards
- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: MC32345

Account: WSPEPAP - WSP Environment & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB072814M1.ICP

Date Analyzed: 07/28/14

Methods: SW846 6010C

Analyst: EAL

Run ID: MA17389

Parameters: Ba

Time	Sample Description	Dilution Factor	PS Recov	Comments
09:35	MA17389-STD1	1		STD1
09:41	MA17389-STD2	1		STD2
09:46	MA17389-ICV1	1		
09:52	MA17389-ICB1	1		
09:57	MA17389-CCV1	1		
10:03	MA17389-CCB1	1		
10:09	MA17389-CRI1	1		
10:14	MA17389-CRIB1	1		
10:20	MA17389-ICSA1	1		
10:25	MA17389-ICSAB1	1		
10:31	MP23398-B1	1		
10:37	MP23398-MB1	1		
10:42	MP23398-S1	1		
10:48	MP23398-S2	1		
10:53	MC32345-5	1		
10:59	MP23398-SD1	5		
11:05	MA17389-CCV2	1		
11:10	MA17389-CCB2	1		
11:16	MP23398-B2	1		
11:21	ZZZZZZ	1		
11:27	MC32345-1	1		
11:33	MC32345-3	1		
11:38	MC32345-4	1		
11:44	MC32345-7	1		
11:50	MC32345-8	1		
11:56	MC32345-10	1		
----->	Last reportable sample/prep for job MC32345			
12:02	ZZZZZZ	1		
12:07	ZZZZZZ	1		
12:13	MA17389-CCV3	1		
12:18	MA17389-CCB3	1		
12:24	ZZZZZZ	1		
12:30	ZZZZZZ	1		
12:35	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: MC32345

Account: WSPEPAP - WSP Environment & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB072814M1.ICP

Date Analyzed: 07/28/14

Methods: SW846 6010C

Analyst: EAL

Run ID: MA17389

Parameters: Ba

Time	Sample Description	Dilution Factor	PS Recov	Comments
12:41	MP23395-B1	1		
12:46	MP23395-MB1	1		
12:52	MP23395-S1	1		
12:58	MP23395-S2	1		
13:03	MC32307-1	1		(sample used for QC only; not part of login MC32345)
13:09	MP23395-SD1	5		
13:14	MP23395-B2	1		
13:20	MA17389-CCV4	1		
13:25	MA17389-CCB4	1		
13:31	MA17389-CRIA1	1		
13:37	ZZZZZZ	1		P&A STUDY
13:42	ZZZZZZ	1		P&A STUDY
13:48	ZZZZZZ	1		P&A STUDY
13:53	ZZZZZZ	1		P&A STUDY
13:59	ZZZZZZ	1		P&A STUDY
14:04	ZZZZZZ	1		P&A STUDY
14:10	ZZZZZZ	1		P&A STUDY
14:15	ZZZZZZ	1		P&A STUDY
14:21	ZZZZZZ	1		P&A STUDY
14:26	MA17389-CCV5	1		
14:32	MA17389-CCB5	1		
14:37	ZZZZZZ	1		P&A STUDY
14:43	MA17389-CRI2	1		
14:48	MA17389-CRIB2	1		
14:54	MA17389-CRIA2	1		
15:00	MA17389-ICSA2	1		
15:06	MA17389-ICSAB2	1		
15:11	MA17389-CCV6	1		
15:18	MA17389-CCB6	1		
15:24	ZZZZZZ	500		
15:29	ZZZZZZ	1000		
15:35	ZZZZZZ	500		
15:41	ZZZZZZ	1000		

----->

Last reportable CCB for job MC32345

8.1

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Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: MC32345

Account: WSPEPAP - WSP Environment & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB072814M1.ICP

Date Analyzed: 07/28/14

Methods: SW846 6010C

Analyst: EAL

Run ID: MA17389

Parameters: Ba

Time	Sample Description	Dilution Factor	PS Recov	Comments
15:46	ZZZZZZ	2		
15:52	ZZZZZZ	5		
15:58	ZZZZZZ	10		
16:03	MP23406-B1	1		
16:14	MP23406-MB1	1		
16:25	MP23406-S1	1		
16:39	MA17389-CCV7	1		
16:49	MA17389-CCB7	1		
16:55	MP23406-S2	1		
17:00	MC32206-7B	1		(sample used for QC only; not part of login MC32345)
17:06	MP23406-SD1	5		
17:11	MP23406-LB1	1		
17:17	ZZZZZZ	1		
17:23	ZZZZZZ	1		
17:28	ZZZZZZ	1		
17:34	ZZZZZZ	1		
17:39	ZZZZZZ	1		
17:45	ZZZZZZ	1		
17:50	MA17389-CCV8	1		
17:56	MA17389-CCB8	1		
18:01	ZZZZZZ	1		
18:07	ZZZZZZ	1		
18:12	ZZZZZZ	1		
18:18	ZZZZZZ	1		
18:24	ZZZZZZ	1		
18:29	ZZZZZZ	1		
18:35	ZZZZZZ	1		
18:40	ZZZZZZ	1		
18:46	ZZZZZZ	1		
18:52	ZZZZZZ	1		
18:57	MA17389-CCV9	1		
19:03	MA17389-CCB9	1		
19:08	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: MC32345

Account: WSPEPAP - WSP Environment & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB072814M1.ICP

Date Analyzed: 07/28/14

Methods: SW846 6010C

Analyst: EAL

Run ID: MA17389

Parameters: Ba

Time	Sample Description	Dilution Factor	PS Recov	Comments
19:14	ZZZZZZ	1		
19:19	ZZZZZZ	1		
19:25	ZZZZZZ	1		RINSECONF
19:31	MA17389-CRI3	1		
19:36	MA17389-CRIB3	1		
19:42	MA17389-ICSA3	1		
19:48	MA17389-ICSAB3	1		
19:53	MA17389-CCV10	1		
19:59	MA17389-CCB10	1		

Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: MC32345
 Account: WSPEPAP - WSP Environment & Energy
 Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB072814M1.ICP Date Analyzed: 07/28/14 Methods: SW846 6010C
 Analyst: EAL Run ID: MA17389
 Parameters: Ba

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
09:35	MA17389-STD1	2997 R	120870 R	16588 R	6648 R
09:41	MA17389-STD2	2926	116700	16540	6131
09:46	MA17389-ICV1	2927	116580	16525	6167
09:52	MA17389-ICB1	2988	120360	16558	6649
09:57	MA17389-CCV1	2950	117350	16416	6280
10:03	MA17389-CCB1	2986	119980	16519	6640
10:09	MA17389-CRI1	2961	119110	16473	6481
10:14	MA17389-CRIB1	2962	119650	16510	6486
10:20	MA17389-ICSA1	2622	103700	15933	5210
10:25	MA17389-ICSAB1	2623	102900	16065	5205
10:31	MP23398-B1	2896	116830	16534	6182
10:37	MP23398-MB1	2981	120850	16751	6658
10:42	MP23398-S1	2667	107530	16010	5375
10:48	MP23398-S2	2683	108120	16046	5405
10:53	MC32345-5	2713	108960	16132	5484
10:59	MP23398-SD1	2887	116260	16465	6127
11:05	MA17389-CCV2	2982	119150	16623	6346
11:10	MA17389-CCB2	3004	121280	16572	6694
11:16	MP23398-B2	2900	117070	16606	6192
11:21	ZZZZZZ	2989	121990	16802	6662
11:27	MC32345-1	2775	110820	16320	5630
11:33	MC32345-3	2749	111490	16185	5711
11:38	MC32345-4	2752	111570	16154	5710
11:44	MC32345-7	2810	110290	16379	5670
11:50	MC32345-8	2746	109570	16254	5533
11:56	MC32345-10	2700	107870	15960	5393
12:02	ZZZZZZ	2960	119640	16745	6472
12:07	ZZZZZZ	2951	118580	16667	6335
12:13	MA17389-CCV3	3002	119800	16599	6397
12:18	MA17389-CCB3	3029	122560	16696	6759
12:24	ZZZZZZ	2957	119720	16752	6396
12:30	ZZZZZZ	2955	119160	16647	6430
12:35	ZZZZZZ	2886	116470	16580	6119

INTERNAL STANDARD SUMMARY

Login Number: MC32345
Account: WSPEPAP - WSP Environment & Energy
Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB072814M1.ICP Date Analyzed: 07/28/14 Methods: SW846 6010C
Analyst: EAL Run ID: MA17389
Parameters: Ba

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
12:41	MP23395-B1	2909	116870	16585	6226
12:46	MP23395-MB1	3005	121380	16673	6737
12:52	MP23395-S1	2843	114320	16367	5949
12:58	MP23395-S2	2841	114780	16482	5936
13:03	MC32307-1	2908	117230	16671	6218
13:09	MP23395-SD1	2996	120980	16669	6594
13:14	MP23395-B2	2930	118130	16668	6264
13:20	MA17389-CCV4	3004	119680	16677	6413
13:25	MA17389-CCB4	3027	121410	16625	6767
13:31	MA17389-CRIA1	2989	119850	16586	6587
13:37	ZZZZZZ	3021	121240	16658	6771
13:42	ZZZZZZ	2901	116800	16612	6215
13:48	ZZZZZZ	2902	116660	16536	6218
13:53	ZZZZZZ	2905	116950	16587	6215
13:59	ZZZZZZ	2907	117210	16601	6216
14:04	ZZZZZZ	3044	123040	16738	6805
14:10	ZZZZZZ	2841	114770	16310	6112
14:15	ZZZZZZ	2844	114680	16407	6117
14:21	ZZZZZZ	2854	114670	16329	6134
14:26	MA17389-CCV5	3034	120420	16690	6488
14:32	MA17389-CCB5	3044	122160	16794	6817
14:37	ZZZZZZ	2866	115200	16372	6165
14:43	MA17389-CRI2	3021	121200	16685	6651
14:48	MA17389-CRIB2	3012	120570	16597	6633
14:54	MA17389-CRIA2	3004	120220	16732	6619
15:00	MA17389-ICSA2	2664	104260	16125	5316
15:06	MA17389-ICSAB2	2660	104050	16096	5307
15:11	MA17389-CCV6	3000	118820	16556	6429
15:18	MA17389-CCB6	3015	121170	16562	6762
15:24	ZZZZZZ	3120	120930	16585	6748
15:29	ZZZZZZ	3077	121220	16580	6747
15:35	ZZZZZZ	3138	120810	16601	6741
15:41	ZZZZZZ	3084	121100	16560	6760

INTERNAL STANDARD SUMMARY

Login Number: MC32345
 Account: WSPEPAP - WSP Environment & Energy
 Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB072814M1.ICP Date Analyzed: 07/28/14 Methods: SW846 6010C
 Analyst: EAL Run ID: MA17389
 Parameters: Ba

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
15:46	ZZZZZZ	2400	92647	15011	4416 !a
15:52	ZZZZZZ	2604	101020	15468	4992
15:58	ZZZZZZ	2720	106280	16082	5371
16:03	MP23406-B1	2898	116140	16614	6246
16:14	MP23406-MB1	2998	121180	16808	6748
16:25	MP23406-S1	2918	116280	16588	6085
16:39	MA17389-CCV7	2990	118550	16546	6406
16:49	MA17389-CCB7	3010	120430	16507	6757
16:55	MP23406-S2	2910	115480	16473	6066
17:00	MC32206-7B	2991	118320	16731	6334
17:06	MP23406-SD1	3015	120220	16619	6627
17:11	MP23406-LB1	3001	120780	16691	6749
17:17	ZZZZZZ	2984	117540	16956	6108
17:23	ZZZZZZ	2990	118000	17097	6063
17:28	ZZZZZZ	2982	116930	17323	5976
17:34	ZZZZZZ	2981	117140	17139	6018
17:39	ZZZZZZ	2997	117680	17516	5966
17:45	ZZZZZZ	2934	116140	17107	5894
17:50	MA17389-CCV8	3037	120850	16687	6478
17:56	MA17389-CCB8	3058	123110	16743	6821
18:01	ZZZZZZ	3023	120410	17162	6194
18:07	ZZZZZZ	3027	119960	17273	6223
18:12	ZZZZZZ	3021	120420	17040	6366
18:18	ZZZZZZ	3009	119820	17216	6222
18:24	ZZZZZZ	3017	120600	17129	6262
18:29	ZZZZZZ	3015	120610	17072	6307
18:35	ZZZZZZ	3020	121160	17026	6382
18:40	ZZZZZZ	3013	121190	17056	6298
18:46	ZZZZZZ	3025	121730	17060	6388
18:52	ZZZZZZ	3030	120260	17549	6100
18:57	MA17389-CCV9	3032	122010	16845	6460
19:03	MA17389-CCB9	3052	123940	16811	6803
19:08	ZZZZZZ	3045	119920	17701	6011

INTERNAL STANDARD SUMMARY

Login Number: MC32345
 Account: WSPEPAP - WSP Environment & Energy
 Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB072814M1.ICP Date Analyzed: 07/28/14 Methods: SW846 6010C
 Analyst: EAL Run ID: MA17389
 Parameters: Ba

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
19:14	ZZZZZZ	2993	120310	17469	6081
19:19	ZZZZZZ	2998	120400	17497	6077
19:25	ZZZZZZ	3039	123590	16437	6775
19:31	MA17389-CRI3	3010	121650	16709	6603
19:36	MA17389-CRIB3	3016	121760	16749	6603
19:42	MA17389-ICSA3	2670	105890	16158	5301
19:48	MA17389-ICSAB3	2676	105960	16136	5305
19:53	MA17389-CCV10	3019	121440	16718	6424
19:59	MA17389-CCB10	3039	123900	16715	6761

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	70-130 %
Istd#2	Yttrium (3600)	70-130 %
Istd#3	Yttrium (3710)	70-130 %
Istd#4	Indium	70-130 %

(a) No element reported by this internal standard.

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: MC32345
Account: WSPEPAP - WSP Environment & Energy
Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB072814M1.ICP Date Analyzed: 07/28/14 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA17389 Units: ug/l

Time: Sample ID:			09:52 ICB1		10:03 CCB1		11:10 CCB2		12:18 CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	8								
Antimony	6.0	.66								
Arsenic	4.0	1.2	anr							
Barium	50	.12	0.10	<50	0.10	<50	0.10	<50	0.10	<50
Beryllium	4.0	.04	anr							
Bismuth	50	.87								
Boron	100	1.1								
Cadmium	4.0	.18	anr							
Calcium	5000	9.4								
Chromium	10	.33	anr							
Cobalt	50	.2	anr							
Copper	25	.77	anr							
Gold	50	1.1								
Iron	100	1.5	anr							
Lead	5.0	1.2	anr							
Lithium	500	1.4								
Magnesium	5000	22								
Manganese	15	.091	anr							
Molybdenum	100	.46	anr							
Nickel	40	.33	anr							
Palladium	50	1								
Platinum	50	2.5								
Potassium	5000	27								
Selenium	10	2.1	anr							
Silicon	100	4.8								
Silver	5.0	.62	anr							
Sodium	5000	11								
Sulfur	50	3.2								
Strontium	10	.11								
Thallium	5.0	.88								
Tin	100	.71								
Titanium	50	.36								
Tungsten	100	2.1	anr							

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: MC32345
Account: WSPEPAP - WSP Environment & Energy
Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB072814M1.ICP Date Analyzed: 07/28/14 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA17389 Units: ug/l

Time: Sample ID:			09:52 ICB1		10:03 CCB1		11:10 CCB2		12:18 CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final

Vanadium 10 .36
Zinc 20 .37
Zirconium 50 .24

(*) Outside of QC limits
(anr) Analyte not requested

anr

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: MC32345
Account: WSPEPAP - WSP Environment & Energy
Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB072814M1.ICP Date Analyzed: 07/28/14 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA17389 Units: ug/l

Time: Sample ID:	RL	IDL	13:25 CCB4	14:32 CCB5	15:18 CCB6	raw	final	raw	final
Metal			raw	final	raw	final	raw	final	final
Aluminum	200	8							
Antimony	6.0	.66							
Arsenic	4.0	1.2	anr						
Barium	50	.12	0.10	<50	-0.10	<50	0.10	<50	
Beryllium	4.0	.04	anr						
Bismuth	50	.87							
Boron	100	1.1							
Cadmium	4.0	.18	anr						
Calcium	5000	9.4							
Chromium	10	.33	anr						
Cobalt	50	.2	anr						
Copper	25	.77	anr						
Gold	50	1.1							
Iron	100	1.5	anr						
Lead	5.0	1.2	anr						
Lithium	500	1.4							
Magnesium	5000	22							
Manganese	15	.091	anr						
Molybdenum	100	.46	anr						
Nickel	40	.33	anr						
Palladium	50	1							
Platinum	50	2.5							
Potassium	5000	27							
Selenium	10	2.1	anr						
Silicon	100	4.8							
Silver	5.0	.62	anr						
Sodium	5000	11							
Sulfur	50	3.2							
Strontium	10	.11							
Thallium	5.0	.88							
Tin	100	.71							
Titanium	50	.36							
Tungsten	100	2.1	anr						

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: MC32345
Account: WSPEPAP - WSP Environment & Energy
Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB072814M1.ICP Date Analyzed: 07/28/14 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA17389 Units: ug/l

Time: Sample ID:			13:25 CCB4		14:32 CCB5		15:18 CCB6	
Metal	RL	IDL	raw	final	raw	final	raw	final
Vanadium	10	.36						
Zinc	20	.37	anr					
Zirconium	50	.24						
(*) Outside of QC limits								
(anr) Analyte not requested								

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: MC32345
Account: WSPEPAP - WSP Environment & Energy
Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB072814M1.ICP Date Analyzed: 07/28/14 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA17389 Units: ug/l

Time: Sample ID:		09:46 ICV1	% Rec	09:57 CCV1	% Rec	11:05 CCV2	% Rec
Metal	ICV	Results		True		Results	
Aluminum							
Antimony							
Arsenic	anr						
Barium	3000	3050	101.7	2000	2020	101.0	2000
Beryllium	anr					1990	99.5
Bismuth							
Boron							
Cadmium	anr						
Calcium							
Chromium	anr						
Cobalt	anr						
Copper	anr						
Gold							
Iron	anr						
Lead	anr						
Lithium							
Magnesium							
Manganese	anr						
Molybdenum	anr						
Nickel	anr						
Palladium							
Platinum							
Potassium							
Selenium	anr						
Silicon							
Silver	anr						
Sodium							
Sulfur							
Strontium							
Thallium							
Tin							
Titanium							
Tungsten	anr						

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: MC32345
Account: WSPEPAP - WSP Environment & Energy
Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB072814M1.ICP Date Analyzed: 07/28/14 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA17389 Units: ug/l

Time:		09:46		09:57		11:05	
Sample ID:		ICV		CCV		CCV	
Metal		ICV1		CCV1		CCV2	
		Results	% Rec	Results	% Rec	Results	% Rec

Vanadium

Zinc anr

Zirconium

(*) Outside of QC limits
(anr) Analyte not requested

8.1.3

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CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: MC32345
Account: WSPEPAP - WSP Environment & Energy
Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB072814M1.ICP Date Analyzed: 07/28/14 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA17389 Units: ug/l

Time: Sample ID: CCV		12:13 CCV3	% Rec	13:20 CCV4		% Rec	14:26 CCV5		% Rec
Metal	True	Results		True	Results		True	Results	
Aluminum									
Antimony									
Arsenic	anr								
Barium	2000	1970	98.5	2000	1990	99.5	2000	1970	98.5
Beryllium	anr								
Bismuth									
Boron									
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt	anr								
Copper	anr								
Gold									
Iron	anr								
Lead	anr								
Lithium									
Magnesium									
Manganese	anr								
Molybdenum	anr								
Nickel	anr								
Palladium									
Platinum									
Potassium									
Selenium	anr								
Silicon									
Silver	anr								
Sodium									
Sulfur									
Strontium									
Thallium									
Tin									
Titanium									
Tungsten	anr								

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: MC32345
Account: WSPEPAP - WSP Environment & Energy
Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB072814M1.ICP Date Analyzed: 07/28/14 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA17389 Units: ug/l

Time:		12:13		13:20		14:26	
Sample ID:		CCV		CCV		CCV	
Metal		True		True		True	
		Results		Results		Results	
		% Rec		% Rec		% Rec	

Vanadium

Zinc anr

Zirconium

(*) Outside of QC limits
(anr) Analyte not requested

8.1.3

8

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: MC32345

Account: WSPEPAP - WSP Environment & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB072814M1.ICP
QC Limits: 90 to 110 % Recovery

Date Analyzed: 07/28/14
Run ID: MA17389

Methods: SW846 6010C
Units: ug/l

Time: Sample ID: CCV		15:11 CCV6		
Metal	True	Results	% Rec	
Aluminum				
Antimony				
Arsenic	anr			
Barium	2000	1990	99.5	
Beryllium	anr			
Bismuth				
Boron				
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt	anr			
Copper	anr			
Gold				
Iron	anr			
Lead	anr			
Lithium				
Magnesium				
Manganese	anr			
Molybdenum	anr			
Nickel	anr			
Palladium				
Platinum				
Potassium				
Selenium	anr			
Silicon				
Silver	anr			
Sodium				
Sulfur				
Strontium				
Thallium				
Tin				
Titanium				
Tungsten	anr			

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: MC32345
Account: WSPEPAP - WSP Environment & Energy
Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB072814M1.ICP Date Analyzed: 07/28/14 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA17389 Units: ug/l

Time:	15:11
Sample ID:	CCV
Metal	True
Results	% Rec

Vanadium

Zinc anr

Zirconium

(*) Outside of QC limits
(anr) Analyte not requested

8.1.3

8

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: MC32345

Account: WSPEPAP - WSP Environment & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB072814M1.ICP

Date Analyzed: 07/28/14

Methods: SW846 6010C

QC Limits: CRI 70-130% CRIA 70-130%

Run ID: MA17389

Units: ug/l

Time: Sample ID:	CRI	CRIA	10:09 CRI1	% Rec	13:31 CRIA1	% Rec	14:43 CRI2	% Rec	14:54 CRIA2	% Rec
Metal	True	True	Results		Results		Results		Results	
Aluminum	200	200								
Antimony	6.0	10								
Arsenic	4.0	10	anr							
Barium	50	50	50.4	100.8	49.9	99.8	50.0	100.0	50.2	100.4
Beryllium	4.0	4.0	anr							
Bismuth	50	50								
Boron	100	100								
Cadmium	4.0	4.0	anr							
Calcium	5000	5000								
Chromium	10	10	anr							
Cobalt	50	50	anr							
Copper	25	25	anr							
Gold	50	50								
Iron	100	100	anr							
Lead	5.0	10	anr							
Lithium	500	500								
Magnesium	5000	5000								
Manganese	15	15	anr							
Molybdenum	100	100	anr							
Nickel	40	40	anr							
Palladium	50	50								
Platinum	50	50								
Potassium	5000	5000								
Selenium	10	10	anr							
Silicon	100	100								
Silver	5.0	5.0	anr							
Sodium	5000	5000								
Sulfur	50	50								
Strontium	10	10								
Thallium	5.0	10								
Tin	100	100								
Titanium	50	50								
Tungsten	100	100	anr							

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: MC32345
 Account: WSPEPAP - WSP Environment & Energy
 Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB072814M1.ICP Date Analyzed: 07/28/14 Methods: SW846 6010C
 QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA17389 Units: ug/l

Time: Sample ID:	CRI	CRIA	10:09 CRI1	% Rec	13:31 CRIA1	% Rec	14:43 CRI2	% Rec	14:54 CRIA2	% Rec
Metal	True	True	Results		Results		Results		Results	

Vanadium 10 10

Zinc 20 20 anr

Zirconium 50 50

(*) Outside of QC limits

(anr) Analyte not requested

8.1.4

8

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: MC32345
 Account: WSPEPAP - WSP Environment & Energy
 Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB072814M1.ICP Date Analyzed: 07/28/14 Methods: SW846 6010C
 QC Limits: 70 to 130 % Recovery Run ID: MA17389 Units: ug/l

Time: Sample ID: CRIB		10:14 CRIB1	% Rec	14:48 CRIB2	% Rec
Metal		True Results		Results	
Aluminum	200				
Antimony	6.0				
Arsenic	10				
Barium	500	509	101.8	503	100.6
Beryllium	4.0				
Bismuth	50				
Boron	100				
Cadmium	4.0				
Calcium	5000				
Chromium	10				
Cobalt	50				
Copper	25				
Gold	50				
Iron	100				
Lead	10				
Lithium	500				
Magnesium	5000				
Manganese	15				
Molybdenum	100				
Nickel	40				
Palladium	50				
Platinum	50				
Potassium	5000				
Selenium	25				
Silicon	100				
Silver	5.0				
Sodium	5000				
Sulfur	50				
Strontium	10				
Thallium	5.0				
Tin	100				
Titanium	50				
Tungsten	100				

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: MC32345
 Account: WSPEPAP - WSP Environment & Energy
 Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB072814M1.ICP Date Analyzed: 07/28/14 Methods: SW846 6010C
 QC Limits: 70 to 130 % Recovery Run ID: MA17389 Units: ug/l

Time:		10:14		14:48	
Sample ID:		CRIB	CRIB1	CRIB2	
Metal	True	Results	% Rec	Results	% Rec

Vanadium 10

Zinc 100

Zirconium 50

(*) Outside of QC limits
 (anr) Analyte not requested

8.1.5

8

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: MC32345

Account: WSPEPAP - WSP Environment & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB072814M1.ICP
QC Limits: 80 to 120 % Recovery

Date Analyzed: 07/28/14
Run ID: MA17389

Methods: SW846 6010C
Units: ug/l

Time: Sample ID:	ICSA True	ICSAB True	10:20 ICSA1 Results	% Rec	10:25 ICSAB1 Results	% Rec	15:00 ICSA2 Results	% Rec	15:06 ICSAB2 Results	% Rec
Metal										
Aluminum	500000	500000	525000	105.0	514000	102.8	513000	102.6	516000	103.2
Antimony		2000	-0.20		2100	105.0	0.40		2050	102.5
Arsenic		2000	-0.80		2040	102.0	-0.10		2010	100.5
Barium		500	0.40		482	96.4	0.50		477	95.4
Beryllium		500	0.10		479	95.8	0.10		466	93.2
Bismuth		500	-1.1		498	99.6	0.40		479	95.8
Boron		1000	2.2		983	98.3	1.0		976	97.6
Cadmium		1000	0.30		1020	102.0	0.40		1010	101.0
Calcium	500000	500000	459000	91.8	457000	91.4	453000	90.6	452000	90.4
Chromium		500	0.60		471	94.2	0.70		469	93.8
Cobalt		500	1.2		472	94.4	1.2		462	92.4
Copper		500	-1.0		517	103.4	-1.4		497	99.4
Gold		500	1.0		521	104.2	3.9		519	103.8
Iron	200000	200000	182000	91.0	181000	90.5	177000	88.5	177000	88.5
Lead		1000	-0.30		918	91.8	0.80		896	89.6
Lithium		500	5.5		523	104.6	3.8		520	104.0
Magnesium	500000	500000	526000	105.2	521000	104.2	508000	101.6	505000	101.0
Manganese		500	-1.5		489	97.8	-2.1		476	95.2
Molybdenum		1000	2.0		930	93.0	1.3		916	91.6
Nickel		1000	0.50		923	92.3	0.90		885	88.5
Palladium		500	-18		533	106.6	-16		521	104.2
Platinum		500	-18		499	99.8	-18		492	98.4
Potassium			-160		-160		-140		-150	
Selenium		2000	1.7		2030	101.5	-0.40		1980	99.0
Silicon		2000	7.9		2030	101.5	6.9		1960	98.0
Silver		1000	0.50		1060	106.0	-1.0		1050	105.0
Sodium			90.9		102		97.5		103	
Sulfur		500	17.8		527	105.4	18.3		525	105.0
Strontium		1000	1.3		994	99.4	1.3		1000	100.0
Thallium		2000	1.3		1810	90.5	1.5		1790	89.5
Tin		1000	1.1		918	91.8	2.3		878	87.8
Titanium		500	0.10		479	95.8	-0.10		472	94.4
Tungsten		2000	21.4		1850	92.5	6.8		1820	91.0

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: MC32345
Account: WSPEPAP - WSP Environment & Energy
Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB072814M1.ICP Date Analyzed: 07/28/14 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA17389 Units: ug/l

Time:				10:20		10:25		15:00		15:06	
Sample ID:	ICSA	ICSAB	ICSA1	% Rec	ICSAB1	% Rec	ICSA2	% Rec	ICSAB2	% Rec	
Metal	True	True	Results		Results		Results		Results		
Vanadium		500	0.90		480	96.0	1.2		462	92.4	
Zinc		1000	-0.90		892	89.2	-1.0		879	87.9	
Zirconium		500	2.6		381	76.2*	2.5		361	72.2*	
(*) Outside of QC limits											
(anr) Analyte not requested											

8.1.6

8

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: MC32345

Account: WSPEPAP - WSP Environment & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

QC Batch ID: MP23398

Methods: SW846 6010C

Matrix Type: AQUEOUS

Units: ug/l

Prep Date:

07/25/14

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	8	13		
Antimony	6.0	.66	2.4		
Arsenic	4.0	1.2	2.4		
Barium	50	.12	2	0.30	<50
Beryllium	4.0	.04	.18		
Bismuth	50	.87	3		
Boron	100	1.1	3.4		
Cadmium	4.0	.18	.24		
Calcium	5000	9.4	21		
Chromium	10	.33	.73		
Cobalt	50	.2	.6		
Copper	25	.77	3.6		
Gold	50	1.1	1.4		
Iron	100	1.5	7.4		
Lead	5.0	1.2	1.9		
Lithium	500	1.4	45		
Magnesium	5000	22	74		
Manganese	15	.091	.35		
Molybdenum	100	.46	.81		
Nickel	40	.33	.57		
Palladium	50	1	6.5		
Platinum	50	2.5	5.1		
Potassium	5000	27	69		
Selenium	10	2.1	2.7		
Silicon	100	4.8	21		
Silver	5.0	.62	.96		
Sodium	5000	11	22		
Sulfur	50	3.2	9.7		
Strontium	10	.11	.18		
Thallium	5.0	.88	1.5		
Tin	100	.71	3.3		
Titanium	50	.36	.89		
Tungsten	100	2.1	5.2		

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: MC32345
Account: WSPEPAP - WSP Environment & Energy
Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

QC Batch ID: MP23398
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 07/25/14

Metal	RL	IDL	MDL	MB raw	final

Vanadium 10 .36 .72

Zinc 20 .37 4.2

Zirconium 50 .24 1.3

Associated samples MP23398: MC32345-1, MC32345-3, MC32345-4, MC32345-5, MC32345-7, MC32345-8, MC32345-10

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

8.2.1

8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: MC32345

Account: WSPEPAP - WSP Environment & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

QC Batch ID: MP23398

Methods: SW846 6010C

Matrix Type: AQUEOUS

Units: ug/l

Prep Date:

07/25/14

Metal	MC32345-5 Original MS		Spike lot MPICP	% Rec	QC Limits
Aluminum					
Antimony					
Arsenic	anr				
Barium	1180	3230	2000	102.5	75-125
Beryllium					
Bismuth					
Boron					
Cadmium	anr				
Calcium					
Chromium	anr				
Cobalt					
Copper	anr				
Gold					
Iron	anr				
Lead	anr				
Lithium					
Magnesium					
Manganese					
Molybdenum	anr				
Nickel	anr				
Palladium					
Platinum					
Potassium					
Selenium	anr				
Silicon					
Silver	anr				
Sodium					
Sulfur					
Strontium					
Thallium					
Tin					
Titanium					
Tungsten					

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: MC32345
 Account: WSPEPAP - WSP Environment & Energy
 Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

QC Batch ID: MP23398
 Matrix Type: AQUEOUS

Methods: SW846 6010C
 Units: ug/l

Prep Date: 07/25/14

Metal	MC32345-5 Original MS	Spike lot MPICP	% Rec	QC Limits

Vanadium

Zinc anr

Zirconium

Associated samples MP23398: MC32345-1, MC32345-3, MC32345-4, MC32345-5, MC32345-7, MC32345-8, MC32345-10

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

8.2.2

8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: MC32345
 Account: WSPEPAP - WSP Environment & Energy
 Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

QC Batch ID: MP23398
 Matrix Type: AQUEOUS

Methods: SW846 6010C
 Units: ug/l

Prep Date: 07/25/14

Metal	MC32345-5 Original	MSD	SpikeLot MPICP	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic	anr					
Barium	1180	3190	2000	100.5	1.2	20
Beryllium						
Bismuth						
Boron						
Cadmium	anr					
Calcium						
Chromium	anr					
Cobalt						
Copper	anr					
Gold						
Iron	anr					
Lead	anr					
Lithium						
Magnesium						
Manganese						
Molybdenum	anr					
Nickel	anr					
Palladium						
Platinum						
Potassium						
Selenium	anr					
Silicon						
Silver	anr					
Sodium						
Sulfur						
Strontium						
Thallium						
Tin						
Titanium						
Tungsten						

8.2.2
8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: MC32345
 Account: WSPEPAP - WSP Environment & Energy
 Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

QC Batch ID: MP23398
 Matrix Type: AQUEOUS

Methods: SW846 6010C
 Units: ug/l

Prep Date: 07/25/14

Metal	MC32345-5 Original MSD	Spike lot MPICP	% Rec	MSD RPD	QC Limit

Vanadium

Zinc anr

Zirconium

Associated samples MP23398: MC32345-1, MC32345-3, MC32345-4, MC32345-5, MC32345-7, MC32345-8, MC32345-10

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

8.2.2

8

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: MC32345
 Account: WSPEPAP - WSP Environment & Energy
 Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

QC Batch ID: MP23398
 Matrix Type: AQUEOUS

Methods: SW846 6010C
 Units: ug/l

Prep Date: 07/25/14 07/25/14

Metal	BSP Result	Spike lot MPICP	% Rec	QC Limits	BSD Result	Spike lot MPICP	% Rec	BSD RPD	QC Limit
Aluminum									
Antimony									
Arsenic	anr								
Barium	2000	2000	100.0	80-120	1990	2000	99.5	0.5	20
Beryllium									
Bismuth									
Boron									
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt									
Copper	anr								
Gold									
Iron	anr								
Lead	anr								
Lithium									
Magnesium									
Manganese									
Molybdenum	anr								
Nickel	anr								
Palladium									
Platinum									
Potassium									
Selenium	anr								
Silicon									
Silver	anr								
Sodium									
Sulfur									
Strontium									
Thallium									
Tin									
Titanium									
Tungsten									

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: MC32345
 Account: WSPEPAP - WSP Environment & Energy
 Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

QC Batch ID: MP23398
 Matrix Type: AQUEOUS

Methods: SW846 6010C
 Units: ug/l

Prep Date: 07/25/14 07/25/14

Metal	BSP Result	Spike lot MPICP	% Rec	QC Limits	BSD Result	Spike lot MPICP	% Rec	BSD RPD	QC Limit

Vanadium

Zinc anr

Zirconium

Associated samples MP23398: MC32345-1, MC32345-3, MC32345-4, MC32345-5, MC32345-7, MC32345-8, MC32345-10

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

8.2.3

8

SERIAL DILUTION RESULTS SUMMARY

Login Number: MC32345
 Account: WSPEPAP - WSP Environment & Energy
 Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

QC Batch ID: MP23398
 Matrix Type: AQUEOUS

Methods: SW846 6010C
 Units: ug/l

Prep Date: 07/25/14

Metal	MC32345-5 Original SDL 1:5		%DIF	QC Limits
Aluminum				
Antimony				
Arsenic	anr			
Barium	1180	1190	0.8	0-10
Beryllium				
Bismuth				
Boron				
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt				
Copper	anr			
Gold				
Iron	anr			
Lead	anr			
Lithium				
Magnesium				
Manganese				
Molybdenum	anr			
Nickel	anr			
Palladium				
Platinum				
Potassium				
Selenium	anr			
Silicon				
Silver	anr			
Sodium				
Sulfur				
Strontium				
Thallium				
Tin				
Titanium				
Tungsten				

8.2.4
8

SERIAL DILUTION RESULTS SUMMARY

Login Number: MC32345
 Account: WSPEPAP - WSP Environment & Energy
 Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

QC Batch ID: MP23398
 Matrix Type: AQUEOUS

Methods: SW846 6010C
 Units: ug/l

Prep Date: 07/25/14

Metal	MC32345-5 Original SDL 1:5	%DIF	QC Limits

Vanadium

Zinc anr

Zirconium

Associated samples MP23398: MC32345-1, MC32345-3, MC32345-4, MC32345-5, MC32345-7, MC32345-8, MC32345-10

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

8.2.4

8

Metals Analysis

Raw Data

Sample Name: STD1 Acquired: 7/28/2014 9:35:29 Type: Cal
Method: Accutest2(v73) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.0015	.0001	-.0002	-.0000	.0006	-.0001	-.0001	.0005	.0048
Stddev	.0000	.0001	.0001	.0000	.0001	.0008	.0000	.0003	.0002
%RSD	1.900	113.4	62.26	.6676	9.440	808.2	13.16	51.49	3.431

#1	-.0014	.0000	-.0002	-.0000	.0007	-.0006	-.0001	.0007	.0047
#2	-.0015	.0001	-.0001	-.0000	.0006	.0004	-.0000	.0003	.0049

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0004	-.0002	-.0000	.0010	.0005	.0017	.0003	-.0000	.0003
Stddev	.0000	.0001	.0000	.0000	.0001	.0003	.0002	.0000	.0000
%RSD	12.57	28.46	91.10	.3851	12.13	20.25	60.97	437.1	3.955

#1	.0004	-.0002	-.0000	.0010	.0004	.0020	.0004	-.0000	.0003
#2	.0004	-.0001	-.0000	.0010	.0005	.0015	.0001	.0000	.0003

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0004	.0037	-.0004	-.0003	-.0001	-.0001	.0007	-.0005	.0004
Stddev	.0001	.0005	.0000	.0001	.0000	.0000	.0000	.0002	.0002
%RSD	13.91	14.08	11.75	26.17	11.28	1.930	6.449	32.67	44.95

#1	.0003	.0041	-.0003	-.0003	-.0001	-.0001	.0006	-.0004	.0002
#2	.0004	.0034	-.0004	-.0004	-.0001	-.0001	.0007	-.0006	.0005

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0129	.0001	-.0021	-.0002	-.0003	.0001	.0125	.0004	-.0001
Stddev	.0001	.0001	.0002	.0000	.0000	.0000	.0001	.0001	.0000
%RSD	.6562	111.5	11.82	6.055	2.658	15.67	.5363	12.48	10.13

#1	.0128	.0002	-.0019	-.0002	-.0003	.0001	.0124	.0004	-.0001
#2	.0129	.0000	-.0022	-.0002	-.0003	.0001	.0125	.0005	-.0001

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Sample Name: STD1 Acquired: 7/28/2014 9:35:29 Type: Cal
Method: Accutest2(v73) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6647.5	2996.9	120870.	16588.
Stddev	5.8	6	63.	11.
%RSD	.08792	.02061	.05241	.06401

#1	6651.7	2997.3	120820.	16595.
#2	6643.4	2996.4	120910.	16580.

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Sample Name: STD2 Acquired: 7/28/2014 9:41:12 Type: Cal
Method: Accutest2(v73) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0851	1.121	.6505	.1345	1.308	14.40	9.612	1.302	1.228
Stddev	.0003	.000	.0008	.0001	.003	.01	.002	.002	.001
%RSD	.3490	.0257	.1172	.1076	.1953	.0717	.0173	.1814	.0664

#1	.0848	1.120	.6499	.1344	1.306	14.39	9.611	1.301	1.229
#2	.0853	1.121	.6510	.1346	1.310	14.41	9.613	1.304	1.228

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5.999	2.587	.4015	1.286	1.004	.6790	3.957	.0843	2.828
Stddev	.013	.004	.0002	.000	.001	.0006	.004	.0003	.011
%RSD	.2205	.1372	.0572	.0133	.1065	.0881	.0958	.4045	.3738

#1	5.989	2.584	.4013	1.286	1.005	.6785	3.954	.0845	2.821
#2	6.008	2.589	.4017	1.286	1.003	.6794	3.959	.0841	2.836

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5.029	3.104	1.875	.7816	.2950	.0419	.3566	.9733	.4431
Stddev	.021	.002	.002	.0010	.0003	.0001	.0009	.0022	.0013
%RSD	.4278	.0605	.1011	.1327	.1160	.1439	.2659	.2258	.3007

#1	5.014	3.103	1.873	.7808	.2953	.0419	.3559	.9718	.4422
#2	5.045	3.105	1.876	.7823	.2948	.0418	.3573	.9749	.4440

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.455	.8812	23.09	.7849	.3374	.5700	2.021	4.740	1.932
Stddev	.002	.0015	.20	.0008	.0010	.0004	.012	.014	.002
%RSD	.1272	.1734	.8478	.0964	.2849	.0752	.5670	.2843	.1210

#1	1.453	.8801	23.23	.7843	.3367	.5697	2.013	4.731	1.930
#2	1.456	.8823	22.95	.7854	.3380	.5703	2.029	4.750	1.934

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Sample Name: STD2 Acquired: 7/28/2014 9:41:12 Type: Cal
Method: Accutest2(v73) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6130.5	2925.9	116700.	16540.
Stddev	9.0	5.9	130.	41.
%RSD	.14643	.20192	.11180	.24769

#1	6136.9	2930.1	116790.	16511.
#2	6124.2	2921.8	116610.	16569.

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Sample Name: ICV Acquired: 7/28/2014 9:46:49 Type: QC
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5106	15.58	3.005	3.011	3.100	3.047	3.000	3.048	18.12
Stddev	.0001	.05	.004	.003	.008	.004	.008	.006	.08
%RSD	.0231	.3520	.1161	.1134	.2495	.1460	.2786	.1929	.4313
#1	.5107	15.62	3.002	3.008	3.095	3.050	3.006	3.044	18.18
#2	.5105	15.54	3.007	3.013	3.106	3.043	2.994	3.052	18.07

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.015	2.948	3.047	2.909	18.13	15.64	2.989	18.42	3.064
Stddev	.009	.006	.001	.004	.08	.06	.000	.01	.002
%RSD	.2994	.1905	.0236	.1344	.4172	.3597	.0053	.0573	.0613
#1	3.008	2.944	3.047	2.906	18.18	15.68	2.990	18.43	3.063
#2	3.021	2.952	3.048	2.912	18.08	15.60	2.989	18.41	3.065

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.953	15.23	2.951	2.988	2.991	3.036	3.003	3.029	2.987
Stddev	.010	.03	.005	.002	.004	.002	.008	.010	.012
%RSD	.3423	.2198	.1637	.0725	.1356	.0671	.2539	.3182	.3895
#1	2.946	15.26	2.947	2.987	2.988	3.034	2.997	3.023	2.979
#2	2.961	15.21	2.954	2.990	2.994	3.037	3.008	3.036	2.996

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

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Sample Name: ICV Acquired: 7/28/2014 9:46:49 Type: QC
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.824	2.945	3.106	2.998	3.019	2.994	3.024	2.963	3.153
Stddev	.007	.007	.004	.001	.009	.002	.014	.008	.004
%RSD	.2489	.2445	.1385	.0451	.2893	.0664	.4546	.2680	.1175
#1	2.819	2.940	3.103	2.997	3.012	2.992	3.014	2.958	3.150
#2	2.829	2.950	3.109	2.999	3.025	2.995	3.033	2.969	3.155

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6166.9	2927.0	116580.	16525.
Stddev	7.8	6.8	17.	146.
%RSD	.12699	.23175	.01460	.88446
#1	6172.4	2931.8	116590.	16422.
#2	6161.3	2922.2	116560.	16629.

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Sample Name: ICB Acquired: 7/28/2014 9:52:19 Type: QC
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0041	.0008	.0009	.0041	.0001	.0001	.0005	.0002
Stddev	.0003	.0034	.0001	.0007	.0006	.0001	.0000	.0002	.0037
%RSD	105.0	82.25	15.32	73.21	14.23	172.5	23.32	40.49	1478.
#1	.0001	.0017	.0007	.0004	.0045	-.0000	.0001	.0004	-.0023
#2	.0005	.0065	.0009	.0014	.0037	.0001	.0001	.0006	.0028

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0002	.0002	-.0001	.0006	-.0149	-.0003	.0073	.0001
Stddev	.0001	.0000	.0001	.0001	.0005	.0140	.0000	.0143	.0000
%RSD	24.03	15.98	33.24	107.3	84.83	94.02	8.090	197.0	12.21
#1	.0002	.0002	.0003	-.0000	.0010	-.0050	-.0003	-.0029	.0001
#2	.0003	.0002	.0002	-.0002	.0002	-.0248	-.0003	.0174	.0001

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0075	-.0079	.0001	-.0003	-.0003	.0011	.0002	.0006	.0017
Stddev	.0012	.0032	.0003	.0004	.0000	.0007	.0001	.0003	.0009
%RSD	15.86	40.93	229.7	126.8	12.21	66.14	70.49	55.84	52.86
#1	.0084	-.0102	-.0001	-.0006	-.0003	.0016	.0001	.0003	.0011
#2	.0067	-.0056	.0003	-.0000	-.0004	.0006	.0003	.0008	.0024

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

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Sample Name: ICB Acquired: 7/28/2014 9:52:19 Type: QC
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006	-.0000	.0001	.0002	.0006	.0002	F .0162	.0001	.0017
Stddev	.0003	.0006	.0000	.0001	.0003	.0001	.0019	.0001	.0000
%RSD	59.83	6219.	8.371	27.25	46.20	28.64	11.48	69.38	2.408
#1	.0008	-.0004	.0001	.0002	.0004	.0002	.0175	.0001	.0017
#2	.0003	.0004	.0001	.0002	.0008	.0002	.0149	.0002	.0016

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Fail Chk Pass Chk Pass
High Limit
Low Limit
-.0100
-.0100

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6649.0	2987.6	120380.	16558.
Stddev	5.0	1.0	148.	86.
%RSD	.07485	.03293	.12275	.52180
#1	6652.5	2986.9	120260.	16619.
#2	6645.5	2988.3	120470.	16496.

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Sample Name: CCV Acquired: 7/28/2014 9:57:59 Type: QC
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2514	10.02	2.006	2.024	2.019	2.019	2.003	2.038	10.13
Stddev	.0010	.01	.000	.003	.004	.000	.001	.002	.00
%RSD	.4016	.0512	.0054	.1245	.1733	.0135	.0504	.0993	.0460
#1	2507	10.02	2.006	2.022	2.021	2.019	2.004	2.040	10.13
#2	2521	10.02	2.006	2.025	2.016	2.018	2.002	2.037	10.13

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass None Chk Pass
Value
Range

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.014	1.993	2.026	1.957	10.05	10.01	2.003	9.999	2.053
Stddev	.003	.002	.005	.004	.01	.01	.000	.084	.003
%RSD	.1219	.0758	.2256	.2093	.0839	.1436	.0067	.8373	.1366

#1	2.016	1.994	2.023	1.955	10.04	10.00	2.004	9.940	2.051
#2	2.012	1.992	2.029	1.960	10.05	10.02	2.003	10.06	2.055

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass None Chk Pass Chk Pass
Value
Range

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.017	9.891	1.998	1.994	1.984	2.014	2.013	1.997	1.999
Stddev	.001	.002	.001	.003	.002	.002	.002	.002	.002
%RSD	.0691	.0216	.0396	.1544	.1122	.1136	.1095	.0885	.0878

#1	2.016	9.890	1.998	1.996	1.982	2.015	2.014	1.998	2.000
#2	2.018	9.893	1.997	1.991	1.985	2.012	2.011	1.996	1.998

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

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Sample Name: CCV Acquired: 7/28/2014 9:57:59 Type: QC
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.061	2.025	2.068	2.019	2.037	1.995	1.970	2.020	2.019
Stddev	.004	.002	.002	.004	.004	.003	.003	.000	.002
%RSD	.1865	.0858	.1102	.1942	.1708	.1683	.1495	.0148	.1088
#1	2.063	2.027	2.069	2.016	2.040	1.993	1.968	2.020	2.017
#2	2.058	2.024	2.066	2.021	2.035	1.998	1.972	2.020	2.020

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6280.0	2949.6	117350.	16416.
Stddev	2.4	.9	10.	31.
%RSD	.03813	.03073	.00884	.19133

#1	6278.3	2949.0	117340.	16394.
#2	6281.7	2950.3	117350.	16439.

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Sample Name: CCB Acquired: 7/28/2014 10:03:24 Type: QC
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0000	.0039	.0005	.0008	.0033	.0001	.0001	.0012	-0.0023
Stddev	.0002	.0066	.0009	.0005	.0003	.0001	.0000	.0005	.0033
%RSD	518.6	170.3	167.9	59.71	10.13	42.49	33.23	40.33	142.6
#1	.0001	-0.0008	.0012	.0005	.0035	.0002	.0001	.0009	-0.0046
#2	-0.0002	.0085	-0.0001	.0012	.0031	.0001	.0000	.0015	.0000

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0002	-0.0001	-0.0001	.0015	-0.0238	-0.0002	-0.0088	.0001
Stddev	.0001	.0001	.0002	.0001	.0022	.0211	.0007	.0008	.0000
%RSD	30.01	51.41	252.9	68.79	145.6	88.54	441.6	8.624	2.472

#1	.0002	.0002	-0.0001	-0.0002	.0031	-0.0089	-0.0006	-0.0083	.0001
#2	.0003	.0003	.0000	-0.0001	-0.0000	-0.0387	.0003	-0.0094	.0001

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0049	-0.0049	.0002	-0.0005	-0.0005	.0005	.0013	.0000	.0006
Stddev	.0009	.0043	.0002	.0001	.0007	.0009	.0008	.0008	.0009
%RSD	18.13	87.89	97.53	21.31	134.7	193.4	66.52	2084.	150.6

#1	.0055	-0.0019	.0000	-0.0005	-0.0000	-0.0002	.0007	-0.0005	-0.0000
#2	.0042	-0.0080	.0003	-0.0004	-0.0010	.0011	.0019	.0006	.0013

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

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Sample Name: CCB Acquired: 7/28/2014 10:03:24 Type: QC
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006	-0.0001	.0001	.0002	.0006	.0001	F .0155	.0002	.0012
Stddev	.0001	.0002	.0000	.0001	.0004	.0001	.0004	.0001	.0001
%RSD	14.61	283.0	18.16	35.13	56.79	148.6	2.749	37.02	6.072
#1	.0007	.0001	.0001	.0003	.0004	.0002	.0158	.0001	.0013
#2	.0005	-0.0002	.0001	.0002	.0009	-0.0000	.0152	.0003	.0012

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Fail Chk Pass Chk Pass
High Limit
Low Limit

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6638.6	2985.7	119980.	16519.
Stddev	9.6	6.2	126.	17.
%RSD	.14411	.20684	.10484	.10041

#1	6632.8	2981.3	120070.	16507.
#2	6646.4	2990.0	119890.	16530.

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Sample Name: CRI Acquired: 7/28/2014 10:09:05 Type: QC										
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000										
User: admin Custom ID1: Custom ID2: Custom ID3:										
Comment:										
Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.0054	.2054	.0044	.0505	.1059	.0504	.0041	.0537	5.098	
Stddev	.0001	.0027	.0007	.0001	.0002	.0000	.0000	.0008	.003	
%RSD	1.517	1.336	16.05	.1245	.1854	.0353	.3877	1.432	.0505	
#1	.0054	.2035	.0049	.0505	.1058	.0504	.0042	.0531	5.100	
#2	.0055	.2074	.0039	.0504	.1061	.0504	.0041	.0542	5.096	
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	
Value										
Range										
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.0040	.0512	.0108	.0243	.1023	5.005	.4948	5.060	.0160	
Stddev	.0000	.0001	.0002	.0001	.0031	.002	.0000	.059	.0000	
%RSD	.4420	.1753	2.292	.5480	3.009	.0354	.0041	1.159	.1986	
#1	.0040	.0513	.0106	.0243	.1001	5.006	.4948	5.019	.0159	
#2	.0040	.0512	.0110	.0244	.1045	5.004	.4948	5.102	.0160	
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	
Value										
Range										
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.1080	4.949	.0420	.0043	.0499	.0498	.0507	.0053	.0103	
Stddev	.0001	.008	.0001	.0011	.0002	.0011	.0020	.0008	.0011	
%RSD	.1321	.1685	.3547	25.34	.4941	2.277	3.872	15.51	10.75	
#1	.1079	4.943	.0421	.0035	.0497	.0506	.0493	.0059	.0111	
#2	.1081	4.955	.0419	.0051	.0501	.0490	.0521	.0047	.0095	
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None	None	Chk Pass	Chk Pass	
Value										
Range										

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Sample Name: CRI Acquired: 7/28/2014 10:09:05 Type: QC										
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000										
User: admin Custom ID1: Custom ID2: Custom ID3:										
Comment:										
Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.1033	.1030	.0105	.0500	.0051	.0103	.1109	.0213	.0539	
Stddev	.0003	.0000	.0000	.0004	.0004	.0002	.0001	.0001	.0003	
%RSD	.3144	.0476	.3812	.7770	7.516	1.744	.0864	.5215	.5802	
#1	.1030	.1030	.0105	.0497	.0048	.0104	.1110	.0212	.0537	
#2	.1035	.1031	.0105	.0502	.0054	.0101	.1108	.0214	.0541	
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	None	
Value										
Range										
Int. Std.	In2306	Y_2243	Y_3600	Y_3710						
Units	Cts/S	Cts/S	Cts/S	Cts/S						
Avg	6480.9	2960.6	119110.	16473.						
Stddev	2.9	3.7	121.	51.						
%RSD	.0492	.12390	.10169	.30770						
#1	6482.9	2963.2	119200.	16509.						
#2	6478.8	2958.0	119030.	16437.						

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Sample Name: CRIB Acquired: 7/28/2014 10:14:42 Type: QC										
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000										
User: admin Custom ID1: Custom ID2: Custom ID3:										
Comment:										
Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.0053	.2028	.0115	.0501	.1053	.5088	.0041	.0528	5.078	
Stddev	.0002	.0012	.0005	.0004	.0002	.0004	.0000	.0001	.036	
%RSD	3.519	.6084	4.569	.8341	.1646	.0747	.8455	.2086	.7139	
#1	.0051	.2036	.0111	.0498	.1054	.5085	.0041	.0529	5.104	
#2	.0054	.2019	.0119	.0504	.1052	.5090	.0042	.0527	5.053	
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	
Value										
Range										
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.0040	.0514	.0108	.0243	.0988	4.988	.4959	5.017	.0159	
Stddev	.0000	.0001	.0002	.0000	.0023	.013	.0008	.035	.0000	
%RSD	.6485	.0987	2.015	.1629	2.326	.2619	.1714	.6910	.2801	
#1	.0040	.0514	.0107	.0243	.1015	4.958	.4965	4.992	.0159	
#2	.0040	.0513	.0110	.0243	.0982	4.977	.4953	5.041	.0160	
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	
Value										
Range										
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.1080	4.927	.0425	.0096	.0498	.0490	.0492	.0057	.0277	
Stddev	.0000	.002	.0001	.0010	.0001	.0015	.0002	.0004	.0003	
%RSD	.0046	.0361	.1283	10.88	.2839	2.998	.4769	7.056	.9878	
#1	.1080	4.929	.0426	.0104	.0497	.0480	.0491	.0060	.0275	
#2	.1080	4.926	.0425	.0089	.0499	.0501	.0494	.0055	.0279	
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None	None	Chk Pass	Chk Pass	
Value										
Range										

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Sample Name: CRIB Acquired: 7/28/2014 10:14:42 Type: QC										
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000										
User: admin Custom ID1: Custom ID2: Custom ID3:										
Comment:										
Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.0986	.1031	.0106	.0502	.0055	.0104	.1094	.1092	.0514	
Stddev	.0009	.0004	.0000	.0001	.0002	.0000	.0008	.0001	.0001	
%RSD	.9213	.3524	.0714	.1796	2.749	.1294	.7626	.1141	.1169	
#1	.0992	.1029	.0106	.0501	.0056	.0104	.1100	.1093	.0514	
#2	.0980	.1034	.0106	.0503	.0054	.0104	.1088	.1091	.0515	
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	None	
Value										
Range										
Int. Std.	In2306	Y_2243	Y_3600	Y_3710						
Units	Cts/S	Cts/S	Cts/S	Cts/S						
Avg	6485.6	2962.0	119650.	16510.						
Stddev	10.1	6.3	161.	44.						
%RSD	.15643	.21135	.13422	.26718						
#1	6492.8	2966.4	119530.	16541.						
#2	6478.4	2957.6	119760.	16478.						

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Sample Name: ICSA Acquired: 7/28/2014 10:20:17 Type: QC									
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	524.5	-0.008	.0010	.0022	.0004	.0001	-0.011	458.7
Stddev	.0000	8.6	.0017	.0003	.0002	.0001	.0000	.0001	1.9
%RSD	.4267	1.635	.2124	32.26	11.25	22.91	10.28	10.55	.4126
#1	.0005	530.5	-0.020	.0012	.0020	.0005	.0001	-0.010	460.1
#2	.0005	518.4	.0004	.0008	.0024	.0004	.0001	-0.012	457.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0012	.0006	-0.010	182.1	-1.1616	.0055	526.2	-0.015
Stddev	.0001	.0000	.0000	.0001	.4	.0074	.0007	1.9	.0001
%RSD	16.15	1.183	2.581	14.35	.2093	4.600	12.30	.3620	4.974
#1	.0003	.0012	.0006	-0.011	182.3	-1.1563	.0050	527.6	-0.015
#2	.0004	.0012	.0006	-0.009	181.8	-1.1668	.0059	524.9	-0.016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit									
Low Limit									
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0020	.0909	.0005	-0.003	-0.0184	-0.0183	.0178	-0.0002	.0017
Stddev	.0001	.0091	.0001	.0020	.0002	.0009	.0006	.0000	.0007
%RSD	7.022	9.985	19.31	693.7	1.306	4.916	3.561	25.25	43.72
#1	.0019	.0844	.0006	.0011	-0.0183	-0.0189	.0183	-0.0002	.0022
#2	.0021	.0973	.0005	-0.017	-0.0186	-0.0177	.0174	-0.0001	.0012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

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Sample Name: ICSA Acquired: 7/28/2014 10:20:17 Type: QC									
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0079	.0011	.0013	.0001	.0013	.0009	.0214	-0.0009	.0026
Stddev	.0004	.0002	.0000	.0003	.0009	.0000	.0010	.0001	.0001
%RSD	5.513	13.58	3.329	215.9	75.15	.5194	4.775	8.241	4.037
#1	.0083	.0012	.0013	-0.001	.0019	.0009	.0222	-0.0008	.0027
#2	.0076	.0010	.0013	.0003	.0006	.0009	.0207	-0.010	.0025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									
Int. Std.	In2306	Y_2243	Y_3600	Y_3710					
Units	Cts/S	Cts/S	Cts/S	Cts/S					
Avg	5210.0	2622.2	103700.	15933.					
Stddev	2.7	.1	123.	72.					
%RSD	.05107	.00533	.11908	.45460					
#1	5211.9	2622.3	103790.	15881.					
#2	5208.1	2622.1	103620.	15984.					

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Sample Name: ICSAB Acquired: 7/28/2014 10:25:59 Type: QC									
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.055	514.1	2.041	.5206	.9830	.4818	.4793	.4976	457.3
Stddev	.006	2.0	.003	.0038	.0005	.0009	.0010	.0022	.8
%RSD	.5739	.3878	.1602	.7336	.0516	.1859	.2034	.4354	.1816
#1	1.059	512.7	2.043	.5233	.9834	.4812	.4799	.4960	456.7
#2	1.050	515.6	2.039	.5179	.9827	.4825	.4786	.4991	457.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit									
Low Limit									
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.020	.4715	.4713	.5174	180.7	-1.1578	.5230	521.4	.4891
Stddev	.002	.0002	.0027	.0026	.2	.0042	.0019	.3	.0038
%RSD	.1815	.0451	.5808	.5064	.1043	2.645	.3655	.0559	.7862
#1	1.021	.4716	.4733	.5193	180.6	-1.1549	.5216	521.6	.4918
#2	1.018	.4713	.4694	.5156	180.8	-1.1608	.5243	521.2	.4864
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit									
Low Limit									
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9299	.1022	.9225	.9179	.5330	.4991	.5265	2.098	2.025
Stddev	.0009	.0066	.0012	.0013	.0027	.0019	.0003	.003	.001
%RSD	.0971	6.455	.1299	.1387	.5031	.3802	.0653	.1173	.0695
#1	.9292	.1069	.9233	.9188	.5349	.4978	.5263	2.100	2.026
#2	.9305	.0976	.9216	.9170	.5311	.5005	.5267	2.096	2.024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

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Sample Name: ICSAB Acquired: 7/28/2014 10:25:59 Type: QC									
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.027	.9182	.9940	.4788	1.808	.4800	1.852	.8917	.3813
Stddev	.001	.0008	.0017	.0036	.001	.0032	.004	.0017	.0040
%RSD	.0294	.0909	.1725	.7509	.0795	.6686	.1901	.1864	1.053
#1	2.028	.9188	.9928	.4814	1.807	.4822	1.849	.8929	.3785
#2	2.027	.9176	.9952	.4763	1.809	.4777	1.854	.8906	.3842
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit									
Low Limit									
Int. Std.	In2306	Y_2243	Y_3600	Y_3710					
Units	Cts/S	Cts/S	Cts/S	Cts/S					
Avg	5204.8	2622.6	102900.	16065.					
Stddev	8.0	4.9	678.	4.					
%RSD	.15398	.18845	.65912	.02366					
#1	5199.1	2619.1	102420.	16068.					
#2	5210.5	2626.1	103380.	16063.					

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Sample Name: MP23398-B1 Acquired: 7/28/2014 10:31:34 Type: Unk
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1812	2.079	.5182	.0002	1.052	1.995	.5124	-.0002	25.70
Stddev	.0001	.009	.0011	.0002	.001	.001	.0005	.0003	.01
%RSD	.0315	.4432	.2075	.1103	.1147	.0281	.1003	149.0	.0407
#1	.1812	2.072	.5175	.0003	1.051	1.995	.5120	.0000	25.71
#2	.1811	2.085	.5190	.0000	1.053	1.994	.5127	-.0004	25.69
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5278	.4949	.5130	.4805	2.066	25.86	-.0011	26.06	.5287
Stddev	.0000	.0002	.0004	.0014	.009	.03	.0004	.07	.0009
%RSD	.0041	.0472	.0846	.3010	.4591	.1189	34.93	2589	.1712
#1	.5278	.4948	.5133	.4795	2.073	25.88	-.0009	26.01	.5293
#2	.5278	.4951	.5127	.4815	2.059	25.84	-.0014	26.10	.5280
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5053	26.08	.5041	1.019	-.0022	-.0035	.0004	.5200	.5190
Stddev	.0005	.01	.0002	.004	.0004	.0002	.0011	.0001	.0017
%RSD	.0969	.0200	.0327	.3822	16.51	6.118	257.1	.0172	.3316
#1	.5049	26.07	.5039	1.016	-.0024	-.0036	-.0003	.5201	.5202
#2	.5056	26.08	.5042	1.022	-.0019	-.0033	.0012	.5199	.5178
Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0547	1.053	.5149	.5082	.5230	.5102	.0162	.5198	.0888
Stddev	.0003	.004	.0006	.0001	.0030	.0006	.0024	.0003	.0125
%RSD	.4995	.3753	.1237	.0117	.5782	.1193	14.94	.0661	14.06
#1	.0545	1.056	.5153	.5082	.5209	.5106	.0180	.5196	.0977
#2	.0549	1.050	.5144	.5082	.5251	.5097	.0145	.5200	.0800

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Sample Name: MP23398-B1 Acquired: 7/28/2014 10:31:34 Type: Unk
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6181.8	2895.7	116830.	16534.
Stddev	6.3	2.7	222.	38.
%RSD	.10178	.09309	.18969	.22906
#1	6186.3	2897.6	116670.	16507.
#2	6177.4	2893.8	116980.	16561.

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Sample Name: MP23398-MB1 Acquired: 7/28/2014 10:37:02 Type: Unk
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0075	-.0002	-.0004	.0017	.0003	-.0000	.0010	.0589
Stddev	.0000	.0011	.0001	.0001	.0004	.0000	.0001	.0001	.0006
%RSD	50.65	14.65	36.43	35.43	21.68	7.560	1126.	8.454	1.042
#1	.0000	.0082	-.0002	-.0003	.0020	.0003	.0000	.0010	.0585
#2	.0000	.0067	-.0003	-.0005	.0015	.0003	-.0000	.0011	.0593
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	-.0001	.0001	.0004	.0119	.0082	.0002	.0035	.0008
Stddev	.0001	.0001	.0001	.0000	.0001	.0028	.0007	.0047	.0000
%RSD	135.8	129.9	69.23	9.304	.9133	29.98	366.3	136.4	.9665
#1	.0002	-.0000	.0002	.0004	.0118	.0112	.0007	.0001	.0008
#2	.0000	-.0001	.0001	.0005	.0120	.0073	-.0003	.0068	.0008
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013	.0202	-.0001	-.0005	-.0005	-.0018	.0053	.0001	.0004
Stddev	.0003	.0033	.0001	.0001	.0001	.0010	.0003	.0002	.0022
%RSD	19.71	16.10	77.74	11.91	15.73	55.76	4.890	151.0	522.0
#1	.0015	.0179	-.0002	-.0005	-.0004	-.0026	.0055	-.0000	-.0011
#2	.0011	.0225	-.0001	-.0004	-.0005	-.0011	.0051	.0002	.0019
Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0521	-.0001	.0003	.0002	-.0003	-.0002	.0082	.0029	.0002
Stddev	.0004	.0007	.0001	.0001	.0002	.0001	.0008	.0001	.0001
%RSD	.7960	744.5	24.80	86.95	74.41	33.06	9.602	4.341	54.71
#1	.0518	.0004	.0003	.0001	-.0005	-.0002	.0088	.0029	.0001
#2	.0524	-.0006	.0004	.0002	-.0001	-.0001	.0077	.0030	.0003

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Sample Name: MP23398-MB1 Acquired: 7/28/2014 10:37:02 Type: Unk
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6657.9	2980.5	120850.	16751.
Stddev	9.9	1.1	147.	40.
%RSD	.14855	.03736	.12136	.23720
#1	6664.9	2981.3	120960.	16779.
#2	6651.0	2979.7	120750.	16723.

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Sample Name: MP23398-S1 Acquired: 7/28/2014 10:42:44 Type: Unk
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1905	2.117	.5430	-0.0005	1.243	3.227	.5149	.0008	201.1
Stddev	.0001	.006	.0018	.0006	.002	.002	.0002	.0005	.1
%RSD	.0656	.2645	.3286	.108.6	.1771	.0491	.0480	66.36	.0324
#1	.1906	2.121	.5417	-0.0001	1.242	3.226	.5147	.0011	201.1
#2	.1904	2.113	.5442	-0.0009	1.245	3.228	.5151	.0004	201.0
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5468	.5077	.5076	.4963	2.482	33.02	.0362	59.92	.8007
Stddev	.0011	.0009	.0005	.0003	.005	.03	.0001	.01	.0009
%RSD	.1961	.1807	.0973	.0667	.2073	.0895	.2282	.0196	.1155
#1	.5461	.5070	.5079	.4961	2.478	33.00	.0362	59.91	.8001
#2	.5476	.5083	.5072	.4965	2.486	33.04	.0361	59.93	.8014
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5060	348.8	.5135	1.027	-0.0084	-0.0023	F 25.68	.5369	.3883
Stddev	.0007	1.7	.0007	.002	.0006	.0011	.05	.0004	.0028
%RSD	.1321	.5005	.1458	.1583	7.016	46.70	.2098	.0795	.7222
#1	.5055	350.0	.5130	1.026	-0.0088	-0.0031	25.64	.5366	.3864
#2	.5064	347.6	.5140	1.029	-0.0080	-0.0016	25.72	.5372	.3903
Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.984	1.022	2.705	.5132	.4998	.5124	.0181	.5175	.0229
Stddev	.010	.002	.004	.0003	.0008	.0010	.0003	.0019	.0012
%RSD	.1414	.1705	.1537	.0518	.1532	.2009	1.658	.3628	5.071
#1	6.977	1.020	2.702	.5130	.4993	.5131	.0183	.5162	.0238
#2	6.991	1.023	2.708	.5134	.5003	.5116	.0179	.5188	.0221

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Sample Name: MP23398-S1 Acquired: 7/28/2014 10:42:44 Type: Unk
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5375.1	2667.1	107530.	16010.
Stddev	3.2	2.5	126.	5.
%RSD	.05985	.09208	.11744	.02887
#1	5377.4	2668.8	107620.	16007.
#2	5372.9	2665.4	107440.	16014.

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Sample Name: MP23398-S2 Acquired: 7/28/2014 10:48:16 Type: Unk
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1911	2.111	.5438	-0.0006	1.251	3.187	.5142	.0004	197.4
Stddev	.0000	.004	.0005	.0001	.000	.004	.0002	.0004	.4
%RSD	.0150	.1853	.0997	23.74	.0179	.1405	.0328	104.2	.1801
#1	.1911	2.108	.5434	-0.0005	1.251	3.184	.5143	.0006	197.6
#2	.1910	2.113	.5442	-0.0007	1.251	3.190	.5141	.0001	197.1
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5463	.5073	.5047	.4959	2.475	32.81	.0366	59.23	.7929
Stddev	.0008	.0012	.0008	.0004	.013	.02	.0004	.08	.0014
%RSD	.1440	.2413	.1622	.0785	.5100	.0590	1.082	.1361	.1722
#1	.5457	.5065	.5042	.4962	2.484	32.79	.0363	59.28	.7920
#2	.5469	.5082	.5053	.4957	2.466	32.82	.0368	59.17	.7939
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5045	339.7	.5131	1.030	-0.0075	-0.0033	F 25.25	.5379	.3964
Stddev	.0020	.8	.0009	.002	.0003	.0017	.04	.0001	.0009
%RSD	.3924	.2458	.1709	.1538	4.419	50.12	.1620	.0118	.2298
#1	.5031	339.1	.5125	1.028	-0.0078	-0.0022	25.22	.5378	.3957
#2	.5059	340.3	.5138	1.031	-0.0073	-0.0045	25.28	.5379	.3970
Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.865	1.022	2.656	.5112	.5007	.5106	.0100	.5155	.0113
Stddev	.011	.000	.002	.0021	.0007	.0015	.0015	.0009	.0003
%RSD	.1524	.0100	.0713	.4134	.1409	.2923	14.55	.1756	2.429
#1	6.858	1.022	2.655	.5097	.5012	.5095	.0090	.5148	.0115
#2	6.872	1.022	2.657	.5127	.5002	.5116	.0110	.5161	.0111

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Sample Name: MP23398-S2 Acquired: 7/28/2014 10:48:16 Type: Unk
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5405.1	2683.4	108120.	16046.
Stddev	7.2	4.1	80.	60.
%RSD	.13359	.15265	.07429	.37252
#1	5410.2	2686.3	108060.	16004.
#2	5400.0	2680.5	108180.	16088.

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Sample Name: MC32345-5 Acquired: 7/28/2014 10:53:50 Type: Unk
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0124	.0004	.0000	.1820	1.182	-0.000	.0002	173.0
Stddev	.0002	.0001	.0003	.0005	.0013	.000	.0000	.0001	.4
%RSD	118.9	.5045	68.54	1393.	.7338	.0279	7.914	64.83	.2258
#1	.0000	.0124	.0006	-.0003	.1830	1.182	-.0000	.0001	172.7
#2	.0003	.0125	.0002	.0004	.1811	1.182	-.0000	.0003	173.2
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0007	.0006	.0002	.4546	5.308	.0373	33.82	.2770
Stddev	.0001	.0001	.0002	.0002	.0022	.006	.0000	.12	.0006
%RSD	68.99	19.64	30.32	74.50	.4902	.1069	.1291	.3671	.2282
#1	.0001	.0006	.0005	.0004	.4562	5.304	.0373	33.73	.2766
#2	.0002	.0008	.0007	.0001	.4530	5.312	.0374	33.90	.2775
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0036	317.4	.0010	.0001	-.0074	-.0034	26.22	-.0003	.0025
Stddev	.0002	2.7	.0001	.0001	.0002	.0018	.02	.0002	.0004
%RSD	4.964	.8392	5.750	66.54	3.259	53.66	.0911	45.19	15.50
#1	.0037	315.5	.0011	.0001	-.0075	-.0048	26.20	-.0002	.0022
#2	.0035	319.3	.0010	.0000	-.0072	-.0021	26.24	-.0004	.0027
Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.793	-.0007	2.140	.0009	.0013	.0003	.0001	.0084	.0048
Stddev	.003	.0001	.002	.0000	.0013	.0000	.0003	.0000	.0001
%RSD	.0478	11.24	.0731	3.759	98.97	13.82	305.6	.3810	1.388
#1	6.791	-.0007	2.139	.0008	.0022	.0003	.0004	.0084	.0049
#2	6.795	-.0006	2.141	.0009	.0004	.0004	-.0001	.0084	.0048

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Sample Name: MC32345-5 Acquired: 7/28/2014 10:53:50 Type: Unk
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5483.8	2713.2	108960.	16132.
Stddev	2	1.8	242.	29.
%RSD	.00389	.06670	.22165	.18269
#1	5484.0	2714.5	109130.	16153.
#2	5483.7	2712.0	108790.	16111.

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Sample Name: MP23398-SD1 Acquired: 7/28/2014 10:59:33 Type: Unk
Method: Accutest2(v73) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0006	.0120	.0004	.0003	.1888	1.192	.0000	.0057	177.7
Stddev	.0014	.0294	.0015	.0016	.0001	.000	.0002	.0027	.1
%RSD	243.3	245.1	336.0	616.8	.0400	.0048	2627.	46.74	.0760
#1	.0004	.0328	.0015	.0014	.1888	1.192	.0002	.0076	177.6
#2	-.0016	-.0088	-.0006	-.0009	.1887	1.192	-.0001	.0038	177.8
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	-.0001	.0012	.0000	.4678	5.233	.0375	34.32	.2834
Stddev	.0004	.0005	.0003	.0005	.0118	.147	.0047	.23	.0021
%RSD	93.36	349.8	25.51	1308.	2.527	2.818	12.43	.6588	.7180
#1	.0007	.0002	.0010	-.0003	.4594	5.337	.0342	34.16	.2919
#2	.0001	-.0005	.0014	-.0004	.4762	5.129	.0408	34.48	.2949
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0048	325.7	-.0001	-.0035	-.0097	-.0083	25.51	-.0051	.0047
Stddev	.0003	.0	.0001	.0022	.0020	.0070	.01	.0025	.0061
%RSD	6.298	.0015	97.18	62.59	20.20	74.56	.0410	49.75	131.5
#1	.0046	325.7	-.0002	-.0020	-.0083	-.0044	25.50	-.0068	.0003
#2	.0050	325.7	-.0000	-.0051	-.0111	-.0143	25.52	-.0033	.0090
Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.786	-.0047	2.180	.0017	-.0010	.0000	-.0137	.0100	.0051
Stddev	.004	.0010	.000	.0005	.0027	.0003	.0018	.0009	.0002
%RSD	.0640	20.95	.0097	30.86	288.0	600.0	12.90	8.942	3.983
#1	6.782	-.0054	2.180	.0020	-.0029	-.0001	-.0125	.0094	.0049
#2	6.789	-.0040	2.180	.0013	.0010	.0002	-.0150	.0106	.0052

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Sample Name: MP23398-SD1 Acquired: 7/28/2014 10:59:33 Type: Unk
Method: Accutest2(v73) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6127.1	2887.0	116260.	16465.
Stddev	8.3	3.0	354.	32.
%RSD	.13513	.10494	.30430	.19347
#1	6132.9	2889.1	116510.	16442.
#2	6121.2	2884.9	116010.	16487.

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Sample Name: CCV Acquired: 7/28/2014 11:05:11 Type: QC
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2478	9.880	1.988	1.990	1.993	1.985	1.976	2.019	9.931
Stddev	.0002	.016	.000	.001	.002	.001	.005	.000	.030
%RSD	.0712	.1578	.0163	.0455	.0775	.0689	.2470	.0189	.2981
#1	.2479	9.869	1.988	1.989	1.992	1.984	1.973	2.019	9.910
#2	.2477	9.892	1.987	1.990	1.994	1.986	1.980	2.018	9.951

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.988	1.972	1.976	1.941	9.926	9.841	1.972	9.764	2.018
Stddev	.004	.002	.003	.001	.016	.004	.003	.014	.002
%RSD	.1791	.0980	.1556	.0237	.1599	.0401	.1410	.1391	.0771
#1	1.986	1.971	1.973	1.941	9.915	9.844	1.970	9.754	2.016
#2	1.991	1.974	1.978	1.941	9.937	9.838	1.974	9.774	2.019

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.992	9.792	1.980	1.972	1.959	1.992	1.986	1.976	1.984
Stddev	.006	.005	.001	.002	.001	.003	.005	.000	.001
%RSD	.3163	.0533	.0653	.0741	.0700	.1402	.2557	.0055	.0669
#1	1.988	9.789	1.981	1.973	1.960	1.990	1.982	1.976	1.985
#2	1.997	9.796	1.980	1.970	1.958	1.994	1.989	1.976	1.983

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

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Sample Name: CCV Acquired: 7/28/2014 11:05:11 Type: QC
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.042	2.015	2.040	1.976	2.010	1.962	1.924	1.993	1.963
Stddev	.002	.003	.002	.002	.000	.004	.006	.004	.002
%RSD	.1086	.1592	.1129	.1094	.0071	.1888	.3350	.2002	.1096
#1	2.040	2.013	2.038	1.974	2.010	1.959	1.919	1.990	1.961
#2	2.043	2.017	2.042	1.977	2.010	1.965	1.928	1.996	1.964

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6345.5	2981.8	119150.	16623.
Stddev	2.6	3.2	218.	9.
%RSD	.04067	.10885	.18335	.05340
#1	6347.3	2984.1	119310.	16616.
#2	6343.7	2979.5	119000.	16629.

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Sample Name: CCB Acquired: 7/28/2014 11:10:36 Type: QC
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0000	.0009	.0011	.0002	.0026	.0001	.0001	.0005	.0016
Stddev	.0003	.0040	.0009	.0002	.0001	.0001	.0000	.0005	.0010
%RSD	773.1	450.0	76.32	119.5	3.813	52.53	60.47	88.42	61.41
#1	.0002	-.0019	.0005	.0004	.0026	.0001	.0000	.0002	.0009
#2	-.0002	.0037	.0017	.0000	.0025	.0002	.0001	.0009	.0023

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0002	.0001	-0.0002	.0014	-0.0182	.0001	-0.0033	.0001
Stddev	.0001	.0001	.0001	.0001	.0011	.0134	.0006	.0327	.0000
%RSD	51.29	28.08	69.69	83.73	75.69	69.61	540.2	992.0	7.729
#1	.0002	.0002	.0001	-.0001	.0007	-.0097	.0005	.0199	.0001
#2	.0004	.0002	.0002	-.0003	.0022	-.0286	-.0003	-.0265	.0001

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0041	.0146	-0.0000	-0.0005	-0.0002	.0009	-0.0012	.0003	-0.0002
Stddev	.0009	.0006	.0001	.0001	.0001	.0011	.0010	.0000	.0014
%RSD	20.74	4.239	137.6	30.23	36.24	123.7	84.33	9.212	742.3
#1	.0047	.0142	-.0001	-.0004	-.0003	.0001	-.0018	.0003	.0008
#2	.0035	.0151	-.0000	-.0005	-.0002	.0017	-.0005	.0003	-.0012

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

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Sample Name: CCB Acquired: 7/28/2014 11:10:36 Type: QC
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	-0.0002	.0001	.0002	.0001	.0001	.0051	.0002	.0010
Stddev	.0004	.0002	.0000	.0001	.0002	.0001	.0007	.0000	.0001
%RSD	168.6	89.66	13.98	26.14	173.0	50.79	13.09	15.17	8.072
#1	-.0000	-.0001	.0001	.0002	.0002	.0002	.0056	.0002	.0010
#2	.0005	-.0003	.0001	.0002	-.0000	.0001	.0046	.0002	.0009

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6693.6	3004.0	121280.	16572.
Stddev	12.5	7.0	67.	132.
%RSD	.18724	.23278	.05501	.79894
#1	6702.4	3009.0	121230.	16479.
#2	6684.7	2999.1	121330.	16666.

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Sample Name: MP23398-B2 Acquired: 7/28/2014 11:16:18 Type: Unk
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1810	2.045	.5179	-0.001	1.063	1.985	.5092	-0.0002	25.52
Stddev	.0001	.011	.0006	.0003	.000	.006	.0017	.0003	.03
%RSD	.0333	.5424	.1101	.428.3	.0107	.3276	.3304	138.2	.1099
#1	.1811	2.053	.5175	-0.003	1.063	1.989	.5104	-0.0000	25.54
#2	.1810	2.038	.5183	.0001	1.062	1.980	.5080	-0.0004	25.50
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5278	.4937	.5122	.4786	2.038	25.71	-0.0014	25.56	.5252
Stddev	.0000	.0001	.0007	.0011	.015	.04	.0004	.02	.0005
%RSD	.0040	.0171	.1298	.2359	.7396	.1682	28.38	.0818	.1021
#1	.5278	.4937	.5127	.4794	2.049	25.74	-0.0011	25.58	.5256
#2	.5278	.4936	.5117	.4778	2.028	25.68	-0.0017	25.55	.5248
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5033	25.94	.5019	1.019	-0.0007	-0.0019	.0013	.5173	.5204
Stddev	.0002	.08	.0000	.004	.0002	.0006	.0006	.0009	.0026
%RSD	.0436	.3214	.0014	.3754	23.69	33.96	48.65	.1683	.5062
#1	.5031	26.00	.5019	1.017	-0.0006	-0.0023	.0017	.5179	.5223
#2	.5034	25.88	.5019	1.022	-0.0009	-0.0014	.0008	.5167	.5185
Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0677	1.046	.5143	.5059	.5237	.5057	.0065	.5204	.0472
Stddev	.0004	.003	.0014	.0012	.0001	.0002	.0008	.0003	.0054
%RSD	.6304	.2880	.2712	.2412	.0187	.0385	12.16	.0495	11.47
#1	.0680	1.049	.5153	.5068	.5238	.5056	.0070	.5206	.0510
#2	.0674	1.044	.5133	.5051	.5236	.5059	.0059	.5202	.0434

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Sample Name: MP23398-B2 Acquired: 7/28/2014 11:16:18 Type: Unk
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6192.3	2899.9	117070.	16606.
Stddev	1.1	1.6	14.	1.
%RSD	.01850	.05664	.01228	.00321
#1	6191.5	2898.7	117080.	16606.
#2	6193.1	2901.0	117060.	16607.

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Sample Name: MC32337-2 Acquired: 7/28/2014 11:21:45 Type: Unk
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.7233	1.145	.1988	.0004	.9897	1.692	.2572	-0.0001	.0298
Stddev	.0005	.000	.0006	.0000	.0038	.003	.0002	.0004	.0028
%RSD	.0701	.0332	.2973	2.654	.3853	.1564	.0892	508.4	9.468
#1	.7237	1.145	.1984	.0004	.9924	1.690	.2570	-0.0003	.0278
#2	.7230	1.145	.1993	.0004	.9870	1.694	.2574	.0002	.0318
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8022	.5519	.3835	.5320	1.707	.0052	-0.0000	-0.0183	.9342
Stddev	.0004	.0001	.0003	.0008	.002	.0214	.0001	.0105	.0007
%RSD	.0488	.0204	.0746	.1555	.1176	414.3	169.4	54.55	.0732
#1	.8019	.5518	.3933	.5315	1.705	-0.0100	.0000	-0.0268	.9337
#2	.8025	.5520	.3937	.5326	1.708	.0203	-0.0001	-0.0119	.9347
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4442	.0501	.3798	.7347	.0005	.0014	-0.0032	.3881	.1907
Stddev	.0000	.0004	.0001	.0013	.0007	.0017	.0006	.0017	.0008
%RSD	.0076	.7789	.0276	.1804	147.2	120.3	18.13	.4338	.4279
#1	.4442	.0504	.3797	.7357	.0009	.0026	-0.0028	.3893	.1912
#2	.4443	.0498	.3799	.7338	-0.0000	.0002	-0.0036	.3870	.1901
Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1061	.0001	.2156	.0002	.6468	.9513	.0215	1.744	-0.0030
Stddev	.0004	.0005	.0005	.0000	.0018	.0005	.0002	.003	.0000
%RSD	.3345	737.8	.2110	3.241	.2764	.0501	.9634	.1520	.2911
#1	.1064	-0.0003	.2153	.0002	.6481	.9510	.0217	1.743	-0.0030
#2	.1059	.0004	.2159	.0002	.6455	.9516	.0214	1.746	-0.0030

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Sample Name: MC32337-2 Acquired: 7/28/2014 11:21:45 Type: Unk
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6661.9	2989.3	121990.	16802.
Stddev	11.2	6.0		20.
%RSD	.16821	.20222	.00030	.12019
#1	6654.0	2985.0	121990.	16816.
#2	6669.8	2993.5	121990.	16787.

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Sample Name: MC32345-1 Acquired: 7/28/2014 11:27:17 Type: Unk
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0000	.0068	-0.0001	.0001	.1529	.4656	.0000	.0011	87.02
Stddev	.0001	.0034	.0001	.0005	.0009	.0001	.0000	.0003	.11
%RSD	459.4	49.46	108.6	494.1	.5763	.0272	97.67	23.35	.1269
#1	.0000	.0044	-0.0000	-0.0002	.1523	.4657	.0001	.0013	86.94
#2	-.0001	.0092	-.0002	.0004	.1536	.4655	.0000	.0010	87.10
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0006	.0006	-0.0001	.9228	7.781	.0222	16.91	.2555
Stddev	.0000	.0002	.0002	.0001	.0010	.004	.0003	.05	.0005
%RSD	5.185	24.69	35.98	127.5	.1103	.0482	1.429	.3016	2086
#1	.0002	.0005	.0007	-0.0002	.9221	7.778	.0219	16.88	.2558
#2	.0002	.0008	.0004	-0.0000	.9235	7.784	.0224	16.95	.2551
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0035	323.1	.0020	.0020	-0.0040	-0.0020	F 47.18	-0.0006	.0011
Stddev	.0002	3.3	.0000	.0003	.0004	.0004	.04	.0004	.0004
%RSD	5.822	1.007	1.311	13.65	9.565	18.13	.0775	66.76	32.26
#1	.0037	320.8	.0020	.0021	-.0043	-.0022	47.20	-.0009	.0014
#2	.0034	325.4	.0020	.0018	-.0037	-.0017	47.15	-.0003	.0009
Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.158	-0.0008	1.318	.0007	.0011	.0004	.0045	.0072	.0039
Stddev	.010	.0000	.002	.0000	.0012	.0002	.0002	.0000	.0001
%RSD	.1576	2.830	.1101	3.190	105.6	63.85	4.426	.2958	1.432
#1	6.164	-.0008	1.317	.0007	.0019	.0005	.0046	.0072	.0038
#2	6.151	-.0008	1.319	.0007	.0003	.0002	.0043	.0072	.0039

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Sample Name: MC32345-1 Acquired: 7/28/2014 11:27:17 Type: Unk
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5630.4	2774.8	110820.	16320.
Stddev	.3	2.4	114.	26.
%RSD	.00592	.08738	.10265	.16009
#1	5630.6	2773.1	110740.	16338.
#2	5630.1	2776.5	110900.	16301.

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Sample Name: MC32345-3 Acquired: 7/28/2014 11:33:01 Type: Unk
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0569	.0010	-0.0004	.1773	7.625	-0.0000	.0004	206.0
Stddev	.0001	.0019	.0000	.0002	.0001	.006	.0000	.0003	.1
%RSD	29.63	3.340	2.230	50.94	.0495	.0741	98.88	60.63	.0454
#1	.0003	.0583	.0010	-0.0005	.1773	7.621	-0.0000	.0006	206.0
#2	.0005	.0556	.0011	-0.0002	.1774	7.629	-0.0001	.0003	206.1
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0007	.0009	.0003	.4179	2.905	.0440	45.25	.5545
Stddev	.0000	.0001	.0001	.0000	.0020	.032	.0004	.00	.0010
%RSD	2.356	14.33	13.75	14.26	.4756	1.090	1.004	.0045	.1737
#1	.0004	.0008	.0008	.0002	.4193	2.928	.0437	45.25	.5552
#2	.0004	.0007	.0009	.0003	.4165	2.883	.0443	45.25	.5538
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0019	101.9	.0003	-0.0019	-0.0089	-0.0042	3.637	.0001	.0008
Stddev	.0001	.0	.0002	.0002	.0011	.0015	.006	.0006	.0006
%RSD	5.906	.0479	76.11	12.16	12.32	36.48	.1672	914.4	113.4
#1	.0019	101.9	.0002	-0.0020	-0.0097	-0.0031	3.641	-.0004	.0001
#2	.0018	102.0	.0005	-0.0017	-.0081	-.0052	3.632	.0005	.0010
Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.830	-0.0008	2.306	.0017	.0011	.0008	.0048	.0081	.0018
Stddev	.006	.0003	.003	.0002	.0011	.0000	.0001	.0001	.0001
%RSD	.0933	33.38	.1087	11.33	97.92	6.297	2.803	1.286	7.452
#1	6.825	-.0010	2.305	.0018	.0019	.0007	.0047	.0082	.0017
#2	6.834	-.0006	2.308	.0016	.0003	.0008	.0049	.0081	.0019

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Sample Name: MC32345-3 Acquired: 7/28/2014 11:33:01 Type: Unk
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5710.8	2748.7	111490.	16185.
Stddev	6.4	2.2	346.	8.
%RSD	.11243	.07851	.31026	.05115
#1	5715.4	2750.3	111250.	16179.
#2	5706.3	2747.2	111730.	16191.

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Sample Name: MC32345-4 Acquired: 7/28/2014 11:38:43 Type: Unk
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007	.0688	.0003	-.0008	.1815	7.821	.0000	.0014	210.2
Stddev	.0001	.0044	.0001	.0003	.0000	.232	.0001	.0003	.5
%RSD	13.13	6.357	23.47	42.51	.0080	2.961	1332.	20.07	.2150
#1	.0006	.0719	.0003	-.0010	.1815	7.657	.0001	.0012	210.5
#2	.0008	.0657	.0002	-.0005	.1815	7.985	-.0001	.0016	209.9

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0008	.0008	.0003	.4332	2.957	.0444	46.16	.5650
Stddev	.0001	.0001	.0000	.0002	.0042	.016	.0004	.21	.0007
%RSD	24.13	10.42	4.860	52.90	.9776	.5438	.8127	.4574	.1159

#1	.0004	.0008	.0008	.0002	.4362	2.968	.0446	46.31	.5645
#2	.0003	.0009	.0009	.0004	.4302	2.946	.0441	46.01	.5654

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016	104.0	.0006	-.0001	-.0090	-.0024	3.698	-.0007	.0006
Stddev	.0002	.2	.0003	.0003	.0003	.0037	.003	.0001	.0014
%RSD	14.57	.2002	41.55	672.4	3.338	157.4	.0809	10.28	216.7

#1	.0017	104.1	.0004	-.0003	-.0092	.0003	3.696	-.0008	.0016
#2	.0014	103.8	.0008	.0002	-.0087	-.0050	3.700	-.0007	-.0003

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.966	-.0008	2.354	.0016	.0005	.0006	.0007	.0083	.0019
Stddev	.012	.0004	.005	.0002	.0001	.0000	.0001	.0003	.0000
%RSD	.1673	53.49	2294	15.26	21.77	3.801	14.90	3.437	.2159

#1	6.957	-.0011	2.358	.0014	.0006	.0006	.0007	.0085	.0019
#2	6.974	-.0005	2.350	.0018	.0004	.0006	.0008	.0081	.0019

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Sample Name: MC32345-4 Acquired: 7/28/2014 11:38:43 Type: Unk
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5710.4	2752.4	111570.	16154.
Stddev	2.2	4.7	91.	4.
%RSD	.03783	.17133	.08182	.02526
#1	5712.0	2755.7	111630.	16151.
#2	5708.9	2749.0	111500.	16157.

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Sample Name: MC32345-7 Acquired: 7/28/2014 11:44:26 Type: Unk
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.0315	.0005	.0003	.0494	4.681	.0000	.0007	36.31
Stddev	.0003	.0001	.0002	.0001	.0004	.167	.0000	.0005	.03
%RSD	273.0	.3147	41.32	19.70	.8650	3.577	88.39	65.60	.0857

#1	-.0003	.0315	.0004	.0002	.0497	4.562	.0000	.0004	36.29
#2	.0001	.0316	.0007	.0003	.0491	4.799	.0000	.0010	36.33

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	-.0001	.0006	.0003	.4346	37.67	-.0099	5.276	.1630
Stddev	.0000	.0000	.0001	.0002	.0045	.04	.0000	.007	.0013
%RSD	10.95	51.62	10.04	55.18	1.032	.0954	.0859	.1319	.7732

#1	.0004	-.0001	.0005	.0002	.4314	37.70	-.0099	5.271	.1621
#2	.0003	-.0000	.0006	.0004	.4378	37.64	-.0099	5.281	.1639

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0338	352.2	.0002	-.0008	-.0021	-.0039	10.50	-.0006	.0009
Stddev	.0000	2.5	.0002	.0009	.0001	.0016	.00	.0003	.0009
%RSD	.0463	.7139	140.7	115.2	3.581	41.21	.0319	44.30	99.65

#1	.0338	350.4	.0003	-.0001	-.0022	-.0050	10.50	-.0004	.0016
#2	.0338	353.9	.0000	-.0014	-.0021	-.0027	10.50	-.0008	.0003

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.411	-.0007	.2062	.0011	.0005	.0003	.0013	.0098	.0008
Stddev	.000	.0007	.0002	.0000	.0001	.0000	.0002	.0000	.0000
%RSD	.0074	94.14	.1169	2.196	14.56	1.844	17.18	.3058	3.445

#1	4.411	-.0002	.2063	.0011	.0006	.0003	.0011	.0098	.0008
#2	4.410	-.0012	.2060	.0010	.0005	.0003	.0014	.0098	.0008

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Sample Name: MC32345-7 Acquired: 7/28/2014 11:44:26 Type: Unk
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5670.2	2810.0	110290.	16379.
Stddev	3.5	.7	665.	11.
%RSD	.06107	.02392	.60257	.06691
#1	5672.7	2810.5	110760.	16371.
#2	5667.8	2809.6	109820.	16387.

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Sample Name: MC32345-8 Acquired: 7/28/2014 11:50:15 Type: Unk
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0070	.0002	-0.013	.2937	6.830	-0.000	.0012	100.8
Stddev	.0002	.0027	.0002	.0002	.0002	.067	.0000	.0001	.1
%RSD	86.68	37.98	138.9	13.77	.0511	.9817	281.0	6.495	.1455
#1	.0001	.0051	.0003	-.0012	.2938	6.783	-.0000	.0011	100.7
#2	.0003	.0089	.0000	-.0014	.2936	6.878	.0000	.0012	100.9

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0011	.0004	.0022	.2882	5.080	.0741	22.68	.1238
Stddev	.0000	.0000	.0000	.0001	.0015	.020	.0004	.02	.0002
%RSD	8.352	4.434	10.02	4.888	.5053	.3992	.4753	.0732	.1256
#1	.0004	.0011	.0004	.0023	.2892	5.094	.0743	22.69	.1237
#2	.0004	.0011	.0005	.0021	.2872	5.066	.0738	22.67	.1239

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0033	365.4	.0004	-0.0008	-0.0048	-0.0026	1.521	-0.0000	-0.0003
Stddev	.0001	1.6	.0001	.0012	.0003	.0013	.004	.0000	.0003
%RSD	1.709	.4476	29.63	149.6	6.938	49.01	.2787	36.29	118.9
#1	.0033	366.6	.0003	-.0017	-.0045	-.0017	1.518	-.0000	-.0000
#2	.0034	364.3	.0005	-.0000	-.0050	-.0035	1.524	-.0000	-.0005

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.625	-0.0007	3.408	.0006	.0014	.0007	-0.0002	.0079	.0017
Stddev	.011	.0001	.016	.0001	.0007	.0002	.0003	.0000	.0000
%RSD	.2340	9.617	.4647	15.84	54.98	26.09	181.3	.2225	1.957
#1	4.618	-.0007	3.397	.0006	.0019	.0009	.0000	.0079	.0017
#2	4.633	-.0006	3.419	.0007	.0008	.0006	-.0004	.0079	.0017

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Sample Name: MC32345-8 Acquired: 7/28/2014 11:50:15 Type: Unk
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5533.1	2745.7	109570.	16254.
Stddev	13.9	6.7	250.	23.
%RSD	.25107	.24386	.22847	.14239
#1	5543.0	2750.5	109750.	16270.
#2	5523.3	2741.0	109400.	16237.

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Sample Name: MC32345-10 Acquired: 7/28/2014 11:56:09 Type: Unk
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0000	.0209	.0004	-0.0006	.1772	9.107	.0000	.0009	154.4
Stddev	.0001	.0060	.0016	.0001	.0007	.124	.0001	.0005	.5
%RSD	4197.	28.72	411.9	16.27	.4071	1.365	596.0	56.25	.3292
#1	-.0001	.0166	-.0008	-.0007	.1777	9.019	.0001	.0005	154.0
#2	.0001	.0251	.0016	-.0006	.1767	9.195	-.0000	.0012	154.8

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	.0003	.0013	.0002	.0934	13.11	.0508	33.36	.1488
Stddev	.0000	.0002	.0003	.0001	.0011	.01	.0002	.23	.0001
%RSD	1.082	45.23	25.54	35.53	1.204	.0550	.3258	.7032	.0369
#1	.0005	.0005	.0011	.0001	.0942	13.10	.0507	33.19	.1488
#2	.0005	.0002	.0016	.0002	.0926	13.11	.0510	33.53	.1488

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0045	F 479.0	.0012	-0.0005	-0.0064	-0.0023	3.574	-0.0004	.0017
Stddev	.0000	.3	.0000	.0004	.0004	.0026	.001	.0001	.0000
%RSD	.6453	.0606	2.208	93.18	5.999	114.2	.0382	12.59	.1034
#1	.0045	479.2	.0012	-.0008	-.0062	-.0004	3.575	-.0005	.0017
#2	.0045	478.8	.0012	-.0002	-.0067	-.0041	3.573	-.0004	.0017

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.197	-0.0005	3.362	.0010	.0005	.0020	-0.0001	.0067	.0016
Stddev	.008	.0005	.012	.0004	.0005	.0001	.0004	.0001	.0001
%RSD	.1458	99.35	.3620	41.95	89.08	3.827	660.9	1.214	3.214
#1	5.203	-.0002	3.370	.0012	.0002	.0020	-.0003	.0067	.0016
#2	5.192	-.0009	3.353	.0007	.0009	.0021	.0002	.0068	.0017

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Sample Name: MC32345-10 Acquired: 7/28/2014 11:56:09 Type: Unk
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5392.5	2700.0	107870.	15960.
Stddev	3.6	1.0	42.	70.
%RSD	.06760	.03565	.03914	.43842
#1	5395.1	2699.3	107840.	16009.
#2	5390.0	2700.7	107900.	15911.

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Sample Name: MC32359-1 Acquired: 7/28/2014 12:02:03 Type: Unk
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.3117	-0.002	-0.002	.0899	.0740	.0000	.0009	20.92
Stddev	.0000	.0035	.0052	.0004	.0000	.0000	.0000	.0004	.03
%RSD	17.24	1.112	100.8	196.6	.0293	.0412	18.01	45.06	.1626
#1	.0001	.3092	-0.003	.0001	.0899	.0740	.0000	.0012	20.90
#2	.0001	.3141	-0.000	-0.005	.0899	.0740	.0000	.0006	20.95

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	-0.0001	.0021	.0073	.9748	.7785	.0007	6.636	.0219
Stddev	.0001	.0000	.0002	.0003	.0037	.0041	.0005	.017	.0001
%RSD	122.0	42.52	8.707	4.039	.3815	.5274	61.15	.2627	.3066

#1	.0001	-0.0001	.0020	.0075	.9722	.7814	.0011	6.623	.0219
#2	.0000	-0.0001	.0022	.0071	.9774	.7756	.0004	6.648	.0218

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	8.357	.0008	.0068	-0.0008	-0.0018	2.735	.0003	-0.0001
Stddev	.0000	.001	.0001	.0005	.0001	.0005	.012	.0003	.0000
%RSD	18.42	.0067	13.69	7.047	12.93	29.82	.4407	107.5	35.05

#1	.0002	8.357	.0009	.0064	-0.0008	-0.0014	2.743	.0001	-0.0001
#2	.0003	8.358	.0007	.0071	-0.0007	-0.0022	2.726	.0006	-0.0001

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.637	.0179	.0572	.0143	-0.0002	.0018	-0.0012	.0193	.0002
Stddev	.008	.0005	.0000	.0000	.0001	.0001	.0003	.0001	.0000
%RSD	.1209	2.935	.0301	.0656	43.91	4.125	24.85	.2808	.2814

#1	6.643	.0183	.0572	.0143	-0.0003	.0019	-0.0010	.0193	.0002
#2	6.632	.0175	.0571	.0143	-0.0001	.0018	-0.0014	.0194	.0002

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Sample Name: MC32359-1 Acquired: 7/28/2014 12:02:03 Type: Unk
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6472.0	2959.9	11964.0	16745.
Stddev	6.8	4.4	234.	12.
%RSD	.10506	.14948	.19524	.07164

#1	6467.2	2956.7	11948.0	16753.
#2	6476.9	2963.0	11981.0	16736.

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Sample Name: MC32359-2 Acquired: 7/28/2014 12:07:42 Type: Unk
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0004	.0038	.0007	.0211	.1751	.1764	.0000	.0020	38.52
Stddev	.0000	.0025	.0001	.0004	.0002	.0004	.0011	.05	.05
%RSD	12.31	65.55	19.77	1.749	.1084	.2094	106.4	54.08	.1336

#1	-0.0004	.0056	.0008	.0208	.1753	.1767	.0001	.0028	38.56
#2	-0.0003	.0020	.0006	.0213	.1750	.1762	.0000	.0013	38.49

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	.0013	-0.0004	.0007	.0105	1.329	-0.0001	9.715	F 17.44
Stddev	.0000	.0000	.0002	.0000	.0008	.007	.0002	.032	.06
%RSD	5.586	1.314	57.92	.6463	7.488	.5500	260.4	.3289	.3640

#1	.0005	.0013	-0.0002	.0007	.0100	1.323	-0.0002	9.738	17.39
#2	.0005	.0013	-0.0006	.0008	.0111	1.334	.0000	9.693	17.48

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006	17.76	.0040	.0002	-0.0027	.0122	.9247	.0002	.0014
Stddev	.0000	.01	.0001	.0001	.0001	.0009	.0015	.0006	.0009
%RSD	4.066	.0691	1.888	50.80	3.155	7.377	.1573	247.6	68.20

#1	.0006	17.77	.0040	.0002	-0.0028	.0115	.9236	-0.0002	.0020
#2	.0006	17.76	.0039	.0001	-0.0027	.0128	.9257	.0007	.0007

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.473	-0.0012	.1291	.0007	.0014	-0.0000	-0.0089	.0110	-0.0000
Stddev	.009	.0003	.0001	.0001	.0003	.0001	.0009	.0000	.0001
%RSD	.1238	27.68	.1108	11.32	25.08	418.6	10.63	.0936	1410.

#1	7.480	-0.0014	.1292	.0008	.0016	-0.0001	-0.0096	.0110	-0.0000
#2	7.467	-0.0009	.1290	.0007	.0011	.0001	-0.0082	.0110	.0000

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Sample Name: MC32359-2 Acquired: 7/28/2014 12:07:42 Type: Unk
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6335.3	2951.2	11858.0	16667.
Stddev	7.5	4.9	225.	7.
%RSD	.11808	.16494	.18950	.04122

#1	6330.0	2947.8	11874.0	16662.
#2	6340.6	2954.7	11842.0	16671.

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Sample Name: CCV Acquired: 7/28/2014 12:13:25 Type: QC
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2466	9.846	1.980	1.990	1.989	1.973	1.963	1.995	9.835
Stddev	.0008	.024	.002	.003	.000	.000	.001	.004	.002
%RSD	.3224	.2387	.1229	.1631	.0097	.0192	.0306	.1841	.0227
#1	.2472	9.829	1.981	1.992	1.989	1.974	1.964	1.997	9.933
#2	.2461	9.862	1.978	1.988	1.989	1.973	1.963	1.992	9.937

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass None Chk Pass
Value
Range

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.981	1.958	1.964	1.924	9.919	9.797	1.962	9.733	1.999
Stddev	.001	.001	.001	.006	.020	.009	.001	.056	.001
%RSD	.0730	.0427	.0337	.2894	.2004	.0873	.0246	.5748	.0312
#1	1.982	1.959	1.963	1.928	9.905	9.791	1.963	9.773	1.998
#2	1.980	1.957	1.964	1.920	9.934	9.804	1.962	9.693	1.999

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.981	9.738	1.956	1.957	1.938	1.970	1.981	1.960	1.972
Stddev	.001	.002	.001	.002	.005	.002	.004	.003	.001
%RSD	.0588	.0161	.0562	.0959	.2802	.1037	.2283	.1631	.0287
#1	1.980	9.737	1.957	1.955	1.941	1.972	1.977	1.958	1.972
#2	1.982	9.739	1.956	1.958	1.934	1.969	1.984	1.962	1.971

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

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Sample Name: CCV Acquired: 7/28/2014 12:13:25 Type: QC
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.022	1.987	2.044	1.956	2.004	1.937	1.906	1.987	1.957
Stddev	.002	.001	.001	.002	.000	.002	.002	.001	.000
%RSD	.0911	.0378	.0661	.0742	.0036	.0856	.1207	.0232	.0152
#1	2.023	1.987	2.045	1.957	2.004	1.938	1.904	1.986	1.957
#2	2.021	1.986	2.043	1.955	2.004	1.936	1.908	1.987	1.957

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6397.2	3001.6	119800.	16599.
Stddev	3.0	.1	201.	26.
%RSD	.04620	.00219	.16752	.15520
#1	6399.3	3001.6	119940.	16618.
#2	6395.1	3001.6	119660.	16581.

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Sample Name: CCB Acquired: 7/28/2014 12:18:49 Type: QC
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.000	-0.005	.0010	.0009	.0021	.0001	.0001	.0010	-0.009
Stddev	.0000	.0041	.0004	.0002	.0001	.0000	.0000	.0003	.0021
%RSD	67.40	744.7	43.22	18.69	4.283	5.559	18.74	29.81	237.1
#1	-0.001	-0.034	.0007	.0011	.0020	.0001	.0001	.0008	-0.024
#2	-0.000	.0023	.0013	.0008	.0022	.0001	.0001	.0012	.0006

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0003	.0002	-0.001	.0004	-0.0219	.0001	-0.0065	.0007
Stddev	.0003	.0001	.0002	.0000	.0008	.0072	.0001	.0042	.0001
%RSD	83.68	25.99	127.3	10.76	202.8	32.79	120.7	63.97	8.200
#1	.0001	.0003	.0000	-0.001	-0.002	-0.168	.0000	-0.036	.0006
#2	.0005	.0004	.0004	-0.001	.0010	-0.270	.0001	-0.095	.0007

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0040	.0192	.0003	-0.000	.0000	.0013	-0.0031	-0.0002	-0.003
Stddev	.0006	.0009	.0003	.0004	.0005	.0002	.0018	.0005	.0006
%RSD	14.12	4.687	87.15	2728.	1445.	14.03	57.53	197.2	163.1
#1	.0045	.0185	.0001	-0.003	-0.003	.0012	-0.019	-0.006	.0001
#2	.0036	.0198	.0005	.0003	.0004	.0015	-0.044	.0001	-0.007

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

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Sample Name: CCB Acquired: 7/28/2014 12:18:49 Type: QC
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006	-0.0003	.0001	.0000	.0007	.0000	.0013	.0004	.0011
Stddev	.0005	.0003	.0000	.0001	.0004	.0000	.0008	.0002	.0001
%RSD	81.76	136.7	25.97	409.5	62.69	198.9	60.12	67.00	4.874
#1	.0003	-0.0005	.0001	-0.000	.0004	-0.000	.0018	.0002	.0012
#2	.0010	-0.000	.0001	.0001	.0010	.0000	.0007	.0005	.0011

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6759.0	3029.3	122580.	16696.
Stddev	7.5	.2	23.	51.
%RSD	.11063	.00785	.01904	.30782
#1	6764.3	3029.5	122540.	16732.
#2	6753.7	3029.1	122580.	16659.

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Sample Name: MC32359-3 Acquired: 7/28/2014 12:24:31 Type: Unk
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.1349	.0003	.0004	.1414	.3406	.0000	.0012	41.23
Stddev	.0001	.0033	.0000	.0002	.0006	.0006	.0001	.0006	.01
%RSD	39.17	2.426	12.69	53.72	.4053	.1809	361.2	50.33	.0165
#1	.0002	.1326	.0003	.0002	.1410	.3402	.0001	.0008	41.22
#2	.0001	.1372	.0003	.0005	.1418	.3410	-.0000	.0016	41.23
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	-.0001	.0018	.0010	.1570	1.793	.0060	8.203	.0027
Stddev	.0000	.0001	.0002	.0001	.0018	.020	.0000	.004	.0000
%RSD	3.255	41.66	9.159	7.390	1.158	1.130	.4160	.0448	1.320
#1	.0001	-.0002	.0019	.0009	.1557	1.807	.0060	8.201	.0027
#2	.0001	-.0001	.0017	.0010	.1583	1.779	.0060	8.206	.0027
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0019	15.02	.0001	.0003	-.0023	.0010	3.249	-.0004	.0003
Stddev	.0003	.01	.0001	.0001	.0006	.0020	.005	.0011	.0011
%RSD	14.88	.0602	84.79	20.51	25.65	199.9	.1419	256.9	330.4
#1	.0021	15.02	.0001	.0004	-.0027	-.0004	3.246	-.0012	-.0005
#2	.0017	15.03	.0002	.0003	-.0019	.0024	3.252	.0003	.0011
Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.290	-.0005	.3711	.0046	.0004	.0041	.0041	.0199	.0013
Stddev	.003	.0002	.0006	.0002	.0002	.0003	.0011	.0001	.0000
%RSD	.0419	37.95	.1741	5.352	61.34	6.766	26.41	.5558	2.928
#1	7.288	-.0004	.3706	.0044	.0002	.0043	.0048	.0199	.0012
#2	7.292	-.0006	.3715	.0048	.0005	.0039	.0033	.0200	.0013

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Sample Name: MC32359-3 Acquired: 7/28/2014 12:24:31 Type: Unk
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6396.3	2957.3	119720.	16752.
Stddev	6	8	395	43
%RSD	.00945	.02866	.33003	.25514
#1	6396.7	2957.9	119440.	16722.
#2	6395.8	2956.7	120000.	16782.

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Sample Name: MC32359-4 Acquired: 7/28/2014 12:30:10 Type: Unk
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0000	.0216	.0000	.0002	.0312	.0901	.0000	.0016	25.91
Stddev	.0002	.0041	.0002	.0006	.0009	.0002	.0000	.0007	.08
%RSD	1798.	18.93	1586.	317.7	2.806	.2062	651.6	44.19	.3191
#1	-.0002	.0187	-.0001	.0006	.0318	.0900	-.0000	.0021	25.86
#2	.0002	.0244	.0001	-.0002	.0306	.0902	.0000	.0011	25.97
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	-.0003	.0004	-.0000	.0472	.9907	.0001	4.692	.0006
Stddev	.0000	.0001	.0002	.0002	.0008	.0016	.0005	.044	.0000
%RSD	22.93	50.43	48.01	1253.	1.669	.1626	479.9	.9330	2.938
#1	.0001	-.0004	.0006	.0001	.0467	.9918	-.0003	4.661	.0006
#2	.0001	-.0002	.0003	-.0002	.0478	.9896	.0005	4.723	.0006
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008	20.62	-.0000	-.0011	-.0019	-.0026	2.930	.0010	.0008
Stddev	.0000	.02	.0002	.0004	.0004	.0001	.008	.0011	.0011
%RSD	3.654	.0735	561.1	39.58	21.95	2.247	.2846	115.2	179.8
#1	.0008	20.61	-.0001	-.0014	-.0021	-.0026	2.936	.0002	.0014
#2	.0008	20.63	.0001	-.0008	-.0016	-.0025	2.924	.0017	-.0002
Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.105	-.0008	.0617	.0011	.0002	.0006	.0014	.0109	.0010
Stddev	.011	.0001	.0002	.0001	.0003	.0001	.0004	.0000	.0000
%RSD	.1522	9.074	.2554	9.088	145.4	18.19	26.62	.3217	1.921
#1	7.112	-.0007	.0616	.0011	.0004	.0007	.0016	.0109	.0011
#2	7.097	-.0008	.0618	.0010	-.0000	.0005	.0011	.0110	.0010

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Sample Name: MC32359-4 Acquired: 7/28/2014 12:30:10 Type: Unk
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6430.3	2955.2	119160.	16647.
Stddev	2.6	2.8	231.	92.
%RSD	.04008	.09410	.19382	.55345
#1	6428.5	2953.2	119000.	16712.
#2	6432.2	2957.1	119330.	16582.

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Sample Name: MC32363-1 Acquired: 7/28/2014 12:35:50 Type: Unk
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.000	1.427	.0011	.0004	.0220	.0502	.0001	.0010	64.54
Stddev	.0000	.007	.0001	.0011	.0004	.0001	.0000	.0003	.09
%RSD	331.0	.5089	4.818	298.0	1.965	.1836	44.58	35.73	.1361
#1	-0.000	1.422	.0010	-0.004	.0217	.0503	.0001	.0007	64.47
#2	.0000	1.432	.0011	.0012	.0223	.0502	.0001	.0012	64.60
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0004	.0103	.0024	10.83	2.251	-0.0004	13.38	.4584
Stddev	.0000	.0000	.0001	.0002	.03	.021	.0003	.07	.0005
%RSD	37.31	10.40	1.195	6.620	.2963	.9457	65.94	.5307	.1172
#1	.0001	.0004	.0103	.0023	10.80	2.236	-0.0002	13.33	.4581
#2	.0002	.0004	.0104	.0025	10.85	2.266	-0.0006	13.43	.4588
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008	54.55	.0011	.0070	-0.0021	-0.0014	15.57	-0.0002	.0018
Stddev	.0000	.01	.0001	.0002	.0001	.0014	.03	.0004	.0020
%RSD	2.482	.0176	13.14	2.790	6.220	97.70	.1671	209.8	112.4
#1	.0008	54.54	.0010	.0071	-0.0020	-0.0004	15.55	.0001	.0032
#2	.0008	54.55	.0012	.0068	-0.0022	-0.0024	15.59	-0.0005	.0004
Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.527	-0.0008	.2164	.0315	.0002	.0045	-0.0016	.0208	.0032
Stddev	.007	.0004	.0003	.0003	.0003	.0000	.0005	.0001	.0001
%RSD	.1071	50.90	.1504	1.088	200.4	1.034	30.13	.5051	2.315
#1	6.522	-0.0005	.2167	.0313	.0004	.0045	-0.0019	.0207	.0031
#2	6.532	-0.0010	.2162	.0318	-0.0001	.0044	-0.0013	.0209	.0032

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Sample Name: MC32363-1 Acquired: 7/28/2014 12:35:50 Type: Unk
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6119.0	2885.9	116470.	16580.
Stddev	6	4.7	2	65.
%RSD	.00920	.16225	.00201	.39300
#1	6118.6	2889.2	116470.	16626.
#2	6119.4	2882.6	116470.	16534.

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Sample Name: MP23395-B1 Acquired: 7/28/2014 12:41:29 Type: Unk
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1798	2.038	.5124	-0.0006	1.047	1.983	.5048	-0.0002	25.41
Stddev	.0002	.004	.0005	.0001	.000	.000	.0010	.0002	.13
%RSD	.1188	.1729	.1035	14.84	.0171	.0216	.2050	90.86	.5089
#1	.1797	2.035	.5128	-0.0006	1.047	1.983	.5055	-0.0003	25.50
#2	.1800	2.040	.5120	-0.0007	1.047	1.983	.5041	-0.0001	25.32
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5231	.4887	.5106	.4726	2.025	25.85	-0.0011	25.22	.5221
Stddev	.0002	.0010	.0014	.0004	.007	.03	.0002	.09	.0017
%RSD	.0376	.1953	.2784	.0931	.3448	.1239	22.04	.3653	.3173
#1	.5230	.4881	.5096	.4723	2.030	25.67	-0.0013	25.28	.5209
#2	.5233	.4894	.5116	.4730	2.020	25.63	-0.0009	25.15	.5233
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4984	25.80	.4831	1.005	-0.0014	-0.0009	2.101	.5120	.5139
Stddev	.0014	.02	.0005	.002	.0003	.0007	.007	.0001	.0019
%RSD	.2750	.0584	.1102	.1758	20.88	82.95	.3391	.0279	.3781
#1	.4974	25.81	.4927	1.004	-0.0012	-0.0004	2.096	.5121	.5153
#2	.4994	25.79	.4935	1.007	-0.0016	-0.0014	2.106	.5119	.5126
Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.094	1.029	.5154	.5058	.5173	.5025	1.041	.5160	.0464
Stddev	.001	.001	.0001	.0006	.0007	.0003	.002	.0010	.0053
%RSD	.1269	.1231	.0198	.1211	.1414	.0656	.1997	.1854	11.33
#1	1.093	1.028	.5153	.5054	.5178	.5022	1.039	.5153	.0502
#2	1.095	1.030	.5154	.5062	.5168	.5027	1.042	.5167	.0427

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Sample Name: MP23395-B1 Acquired: 7/28/2014 12:41:29 Type: Unk
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6225.7	2908.7	116870.	16585.
Stddev	5.4	2.7	462	140.
%RSD	.08597	.09235	.39520	.84578
#1	6229.5	2910.6	117200.	16485.
#2	6221.9	2906.8	116550.	16684.

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Sample Name: MP23395-MB1 Acquired: 7/28/2014 12:46:56 Type: Unk									
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0002	-0.0002	-0.0008	-0.0002	-0.0011	-0.0000	-0.0000	-0.0008	-0.0129
Stddev	.0000	.0088	.0006	.0006	.0001	.0001	.0001	.0006	.0029
%RSD	3.039	3565.	90.11	254.4	5.659	1344.	15190.	75.77	22.38
#1	-0.0002	.0060	.0010	.0002	.0011	-0.0001	.0000	.0004	.0108
#2	-0.0003	-0.0065	.0002	-0.0006	.0010	.0001	-0.0000	.0012	.0149
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0000	.0000	-0.0002	.0016	-0.0140	.0001	-0.0163	.0001
Stddev	.0000	.0001	.0001	.0000	.0003	.0162	.0002	.0081	.0000
%RSD	65.31	5538.	1348.	27.04	19.67	115.8	407.3	49.85	.8494
#1	.0001	-0.0001	-0.0001	-0.0001	.0014	-0.0025	-0.0001	-0.0105	.0001
#2	.0000	.0001	.0001	-0.0002	.0018	-0.0254	.0002	-0.0220	.0001
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008	.0237	-0.0000	-0.0007	-0.0002	-0.0004	-0.0011	.0001	.0004
Stddev	.0000	.0010	.0001	.0006	.0010	.0018	.0016	.0006	.0021
%RSD	2.813	4.254	507.5	94.53	492.7	477.1	145.4	400.2	476.6
#1	.0008	.0244	.0000	-0.0011	.0005	-0.0017	-0.0023	.0006	.0020
#2	.0008	.0230	-0.0001	-0.0002	-0.0009	.0009	.0000	-0.0003	-0.0011
Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0451	-0.0000	.0001	.0002	.0002	.0000	-0.0029	.0015	-0.0000
Stddev	.0011	.0003	.0000	.0000	.0001	.0000	.0001	.0002	.0001
%RSD	2.399	687.7	47.45	5.833	63.82	182.3	4.943	12.06	132.6
#1	.0458	.0001	.0001	.0002	.0001	.0001	-0.0028	.0013	-0.0000
#2	.0443	-0.0002	.0001	.0002	.0003	-0.0000	-0.0030	.0016	-0.0001

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Sample Name: MP23395-MB1 Acquired: 7/28/2014 12:46:56 Type: Unk									
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Int. Std.	In2306	Y_2243	Y_3600	Y_3710					
Units	Cts/S	Cts/S	Cts/S	Cts/S					
Avg	6737.2	3004.7	121380.	16673.					
Stddev	1.2	5.3	49.	36.					
%RSD	.01789	.17694	.04022	.21661					
#1	6736.4	3000.9	121420.	16648.					
#2	6738.1	3008.4	121350.	16699.					

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Sample Name: MP23395-S1 Acquired: 7/28/2014 12:52:39 Type: Unk									
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1810	2.039	.5172	.0003	1.071	1.999	.5021	.0015	99.10
Stddev	.0001	.003	.0020	.0005	.003	.002	.0000	.0004	.11
%RSD	.0299	.1251	.3919	172.8	.2588	.0829	.0006	29.66	.1066
#1	.1810	2.041	.5158	.0006	1.069	2.001	.5021	.0012	99.17
#2	.1810	2.037	.5186	-0.0001	1.073	1.998	.5021	.0018	99.02
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5233	.4874	.5093	.4724	1.996	27.63	.0018	38.76	.5110
Stddev	.0013	.0012	.0021	.0003	.010	.02	.0007	.03	.0014
%RSD	.2469	.2410	.4201	.0686	.4974	.0865	38.00	.0814	.2655
#1	.5224	.4866	.5078	.4726	2.003	27.65	.0023	38.74	.5100
#2	.5242	.4882	.5108	.4722	1.989	27.62	.0013	38.78	.5119
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5012	62.51	.5219	1.001	-0.0043	-0.0026	4.524	.5121	.5159
Stddev	.0023	.05	.0005	.001	.0006	.0028	.032	.0009	.0004
%RSD	.4588	.0813	.0928	.0850	14.30	105.5	.7080	.1683	.0870
#1	.4996	62.55	.5215	.9999	-0.0048	-0.0046	4.501	.5115	.5156
#2	.5028	62.48	.5222	1.001	-0.0039	-0.0007	4.547	.5127	.5162
Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.474	1.006	.6322	.5010	.5072	.4957	1.015	.5055	.0112
Stddev	.016	.001	.0004	.0006	.0025	.0010	.004	.0002	.0007
%RSD	.2980	.1434	.0640	.1185	.4880	.1988	.4099	.0434	6.034
#1	5.462	1.007	.6325	.5006	.5054	.4950	1.012	.5053	.0117
#2	5.485	1.005	.6319	.5015	.5089	.4964	1.018	.5056	.0108

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Sample Name: MP23395-S1 Acquired: 7/28/2014 12:52:39 Type: Unk									
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Int. Std.	In2306	Y_2243	Y_3600	Y_3710					
Units	Cts/S	Cts/S	Cts/S	Cts/S					
Avg	5948.6	2843.3	114320.	16367.					
Stddev	4.0	4.7	415.	16.					
%RSD	.06767	.16376	.36329	.09923					
#1	5951.5	2846.6	114610.	16378.					
#2	5945.8	2840.0	114030.	16355.					

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Sample Name: MP23395-S2 Acquired: 7/28/2014 12:58:06 Type: Unk
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1791	2.014	.5143	-.0003	1.070	1.974	.4965	-.0002	98.55
Stddev	.0002	.014	.0058	.0008	.012	.002	.0015	.0006	.10
%RSD	.1318	.6796	1.123	270.5	1.072	.0904	.3105	350.7	.0972
#1	.1789	2.004	.5103	-.0009	1.062	1.973	.4954	-.0006	98.48
#2	.1793	2.023	.5184	.0003	1.078	1.975	.4976	.0002	98.62

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5208	.4851	.5015	.4668	1.976	27.29	.0016	38.50	.5047
Stddev	.0054	.0039	.0001	.0009	.006	.01	.0002	.06	.0004
%RSD	1.040	.7979	.0115	.1864	.2864	.0420	11.23	.1663	.0762

#1	.5169	.4823	.5015	.4674	1.980	27.30	.0018	38.45	.5050
#2	.5246	.4878	.5015	.4662	1.972	27.28	.0015	38.54	.5044

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4973	62.25	.5205	1.000	-.0032	-.0025	4.553	.5097	.5146
Stddev	.0058	.03	.0046	.011	.0002	.0012	.048	.0039	.0062
%RSD	1.164	.0422	.8900	1.060	7.561	46.20	1.055	.7615	1.200

#1	.4932	62.23	.5172	.9929	-.0034	-.0034	4.519	.5070	.5103
#2	.5014	62.27	.5237	1.008	-.0030	-.0017	4.587	.5125	.5190

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.504	1.004	.6274	.4929	.5075	.4880	1.007	.5032	.0040
Stddev	.059	.015	.0000	.0001	.0046	.0014	.010	.0059	.0003
%RSD	1.078	1.453	.0025	.0104	.9090	.2853	1.008	1.172	6.296

#1	5.462	.9939	.6274	.4928	.5043	.4890	.9994	.4990	.0042
#2	5.545	1.015	.6275	.4929	.5108	.4870	1.014	.5074	.0038

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Sample Name: MP23395-S2 Acquired: 7/28/2014 12:58:06 Type: Unk
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5935.7	2841.0	114780.	16482.
Stddev	43.5	23.2	153.	4.
%RSD	.73233	.81612	.13361	.02471

#1	5966.4	2857.4	114670.	16479.
#2	5904.9	2824.6	114890.	16485.

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Sample Name: MC32307-1 Acquired: 7/28/2014 13:03:33 Type: Unk
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0000	.0108	-.0001	.0004	.0214	.0334	.0000	.0013	72.06
Stddev	.0002	.0052	.0001	.0002	.0001	.0001	.0000	.0004	.07
%RSD	626.5	47.85	89.68	56.20	.2581	.4170	160.8	29.50	.0932

#1	.0001	.0072	-.0000	.0005	.0214	.0335	-.0000	.0010	72.11
#2	-.0002	.0145	-.0002	.0002	.0215	.0333	.0000	.0016	72.02

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	-.0002	.0079	.0002	-.0007	1.688	.0025	13.47	.0015
Stddev	.0002	.0001	.0000	.0001	.0004	.009	.0006	.04	.0000
%RSD	114.1	42.14	.4680	50.08	56.51	.5327	21.96	.3034	1.373

#1	.0000	-.0003	.0078	.0003	-.0009	1.682	.0029	13.50	.0015
#2	.0002	-.0001	.0079	.0001	-.0004	1.694	.0022	13.44	.0015

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0085	35.53	.0311	-.0005	-.0036	-.0013	2.315	-.0002	.0008
Stddev	.0002	.02	.0000	.0008	.0003	.0006	.011	.0005	.0001
%RSD	1.975	.0468	.0182	172.9	7.595	48.13	.4866	276.9	15.04

#1	.0087	35.52	.0311	-.0010	-.0034	-.0018	2.307	.0002	.0009
#2	.0084	35.55	.0311	.0001	-.0038	-.0009	2.323	-.0005	.0007

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.283	-.0010	.1177	.0008	.0000	.0001	-.0012	.0023	.0001
Stddev	.007	.0001	.0001	.0000	.0008	.0001	.0007	.0001	.0000
%RSD	.1748	14.88	.0714	2.310	8898.	71.30	62.89	2.405	25.40

#1	4.298	-.0011	.1176	.0008	-.0006	.0001	-.0006	.0023	.0001
#2	4.288	-.0009	.1178	.0008	.0006	.0002	-.0017	.0024	.0001

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Sample Name: MC32307-1 Acquired: 7/28/2014 13:03:33 Type: Unk
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6217.6	2908.3	117230.	16671.
Stddev	4.5	2.8	198.	74.
%RSD	.07188	.09697	.16920	.44635

#1	6214.5	2906.3	117090.	16618.
#2	6220.8	2910.3	117370.	16724.

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Sample Name: MP23395-SD1 Acquired: 7/28/2014 13:09:12 Type: Unk
Method: Accutest2(v73) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0003	.0053	.0006	-0.0001	.0263	.0340	-0.0000	.0043	73.67
Stddev	.0005	.0045	.0003	.0000	.0012	.0002	.0000	.0014	.06
%RSD	149.6	85.07	47.02	38.55	4.623	.4583	97.89	31.67	.0811
#1	.0000	.0021	.0008	-0.0001	.0254	.0339	-0.0000	.0053	73.71
#2	-0.0006	.0085	.0004	-0.0001	.0271	.0341	-0.0000	.0033	73.63

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	-0.0009	.0079	-0.0003	-0.0016	1.714	.0032	13.80	.0016
Stddev	.0002	.0006	.0005	.0015	.0003	.004	.0013	.03	.0002
%RSD	240.5	69.05	6.657	528.2	16.60	.2581	40.37	.1977	12.50
#1	-0.0001	-0.0005	.0083	.0008	-0.0017	1.718	.0041	13.78	.0017
#2	.0003	-0.0013	.0076	-0.0013	-0.0014	1.711	.0023	13.82	.0014

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0092	35.85	.0321	-0.0022	-0.0052	.0056	2.299	-0.0017	.0022
Stddev	.0001	.12	.0000	.0044	.0001	.0010	.001	.0004	.0017
%RSD	1.014	.3423	.1119	200.8	1.917	17.76	.0538	24.23	74.78
#1	.0092	35.76	.0321	-0.0052	-0.0052	.0049	2.298	-0.0014	.0011
#2	.0093	35.93	.0321	-0.009	-0.0051	.0063	2.300	-0.0020	.0034

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.394	-0.0047	.1219	.0010	.0012	.0004	-0.0307	.0034	-0.0004
Stddev	.013	.0015	.0008	.0007	.0007	.0007	.0027	.0003	.0003
%RSD	.2918	33.02	.6902	67.23	60.29	175.9	8.873	8.861	81.38
#1	4.385	-0.0036	.1213	.0005	.0017	.0009	-0.0288	.0032	-0.0006
#2	4.403	-0.0058	.1225	.0015	.0007	-0.0001	-0.0327	.0036	-0.0002

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Sample Name: MP23395-SD1 Acquired: 7/28/2014 13:09:12 Type: Unk
Method: Accutest2(v73) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6594.2	2996.2	120980.	16669.
Stddev	9.3	3.8	207.	32.
%RSD	.14048	.12661	.17069	.19138
#1	6600.7	2998.9	120830.	16646.
#2	6587.6	2993.5	121120.	16692.

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Sample Name: MP23395-B2 Acquired: 7/28/2014 13:14:52 Type: Unk
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1775	2.020	.5108	.0000	1.041	1.962	.5029	.0011	25.22
Stddev	.0003	.009	.0010	.0001	.002	.005	.0013	.0002	.09
%RSD	.1454	.4637	.1927	912.1	.1605	.2594	.2498	17.45	.3707
#1	.1777	2.013	.5101	-0.0001	1.042	1.958	.5020	.0009	25.16
#2	.1773	2.027	.5115	.0001	1.040	1.965	.5038	.0012	25.29

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5185	.4855	.5013	.4703	2.018	25.31	-0.0005	25.04	.5161
Stddev	.0001	.0000	.0013	.0002	.003	.07	.0001	.13	.0003
%RSD	.0104	.0031	.2560	.0350	.1481	.2627	31.04	.5123	.0674
#1	.5186	.4855	.5004	.4702	2.016	25.26	-0.0004	24.95	.5159
#2	.5185	.4855	.5022	.4704	2.020	25.36	-0.0006	25.13	.5164

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4956	25.71	.4830	1.001	-0.0013	-0.0007	2.094	.5096	.5140
Stddev	.0003	.08	.0007	.002	.0001	.0009	.006	.0002	.0021
%RSD	.0543	.3163	.1441	.1668	4.199	133.7	.2955	.0400	.4161
#1	.4954	25.65	.4925	.9995	-0.0014	-0.0013	2.099	.5095	.5156
#2	.4958	25.77	.4935	1.002	-0.0013	-0.0000	2.090	.5098	.5125

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.096	1.031	.5121	.4959	.5143	.4965	1.028	.5118	.0027
Stddev	.004	.002	.0015	.0002	.0007	.0013	.001	.0011	.0002
%RSD	.3810	.1928	.3022	.0388	.1319	.2622	.1400	.2058	7.624
#1	1.093	1.033	.5110	.4958	.5148	.4956	1.029	.5111	.0029
#2	1.099	1.030	.5131	.4960	.5138	.4974	1.027	.5126	.0026

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Sample Name: MP23395-B2 Acquired: 7/28/2014 13:14:52 Type: Unk
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6264.3	2929.7	118130.	16668.
Stddev	2.3	.6	75.	55.
%RSD	.03678	.02035	.06313	.32846
#1	6266.0	2929.3	118080.	16707.
#2	6262.7	2930.1	118190.	16630.

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Sample Name: CCV Acquired: 7/28/2014 13:20:21 Type: QC										
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000										
User: admin Custom ID1: Custom ID2: Custom ID3:										
Comment:										
Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	2483	9.878	1.980	1.995	1.998	1.985	1.965	1.997	9.940	
Stddev	.0002	.009	.001	.002	.002	.001	.003	.000	.045	
%RSD	.0620	.0924	.0322	.0783	.0873	.0599	.1519	.0055	.4582	
#1	2482	9.884	1.980	1.996	2.000	1.986	1.967	1.997	9.972	
#2	2484	9.871	1.981	1.994	1.997	1.984	1.963	1.997	9.907	
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	
Value										
Range										
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	1.991	1.963	1.980	1.926	9.910	9.853	1.976	9.737	2.007	
Stddev	.000	.001	.002	.002	.008	.040	.001	.057	.000	
%RSD	.0203	.0712	.1063	.1013	.0774	.4031	.0540	.5816	.0060	
#1	1.991	1.962	1.978	1.927	9.905	9.881	1.977	9.777	2.007	
#2	1.992	1.964	1.981	1.924	9.915	9.825	1.976	9.696	2.007	
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	
Value										
Range										
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	1.989	9.762	1.956	1.960	1.947	1.982	1.996	1.966	1.973	
Stddev	.003	.009	.001	.002	.000	.004	.006	.001	.000	
%RSD	.1330	.0937	.0275	.1005	.0143	.2207	.2906	.0265	.0190	
#1	1.987	9.769	1.956	1.959	1.947	1.985	2.000	1.966	1.973	
#2	1.991	9.756	1.957	1.962	1.947	1.979	1.992	1.966	1.973	
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	
Value										
Range										

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Sample Name: CCV Acquired: 7/28/2014 13:20:21 Type: QC										
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000										
User: admin Custom ID1: Custom ID2: Custom ID3:										
Comment:										
Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	2.023	1.986	2.052	1.970	2.010	1.944	1.919	1.996	1.954	
Stddev	.001	.001	.002	.002	.006	.000	.008	.002	.006	
%RSD	.0350	.0269	.0959	.0891	.3168	.0097	.4335	.1115	.3293	
#1	2.022	1.986	2.053	1.969	2.005	1.944	1.913	1.994	1.949	
#2	2.023	1.985	2.050	1.971	2.014	1.945	1.925	1.997	1.959	
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	
Value										
Range										
Int. Std.	In2306	Y_2243	Y_3600	Y_3710						
Units	Cts/S	Cts/S	Cts/S	Cts/S						
Avg	6412.7	3003.6	119680.	16677.						
Stddev	3.5	.5	176.	90.						
%RSD	.05481	.01688	.14710	.54197						
#1	6415.2	3003.9	119550.	16613.						
#2	6410.2	3003.2	119800.	16740.						

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Sample Name: CCB Acquired: 7/28/2014 13:25:47 Type: QC										
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000										
User: admin Custom ID1: Custom ID2: Custom ID3:										
Comment:										
Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	-0.001	.0063	.0005	.0009	.0024	.0001	.0001	.0006	-.0018	
Stddev	.0001	.0006	.0000	.0001	.0001	.0001	.0000	.0002	.0025	
%RSD	72.18	9.795	4.019	14.97	3.905	109.5	5.270	33.31	137.0	
#1	-.0002	.0067	.0005	.0010	.0025	.0000	.0001	.0008	-.0001	
#2	-.0001	.0058	.0005	.0008	.0023	.0001	.0001	.0005	-.0036	
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	
High Limit										
Low Limit										
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.0003	.0001	.0001	-.0003	.0004	-.0120	.0002	-.0142	.0001	
Stddev	.0000	.0000	.0000	.0001	.0009	.0137	.0003	.0176	.0000	
%RSD	5.285	.0891	46.09	33.71	212.4	114.2	138.1	123.2	6.627	
#1	.0003	.0001	.0001	-.0002	-.0002	-.0023	.0005	-.0018	.0001	
#2	.0003	.0001	.0001	-.0003	.0011	-.0217	.0000	-.0267	.0001	
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	
High Limit										
Low Limit										
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.0042	-.0007	.0001	-.0005	-.0002	.0007	-.0031	.0006	.0004	
Stddev	.0008	.0016	.0000	.0005	.0005	.0015	.0001	.0002	.0008	
%RSD	20.01	232.5	19.62	109.4	267.9	207.7	2.599	36.40	184.5	
#1	.0048	.0004	.0001	-.0001	.0002	.0017	-.0030	.0008	-.0001	
#2	.0036	-.0018	.0001	-.0008	-.0005	-.0003	-.0031	.0005	.0010	
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	
High Limit										
Low Limit										

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Sample Name: CCB Acquired: 7/28/2014 13:25:47 Type: QC										
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000										
User: admin Custom ID1: Custom ID2: Custom ID3:										
Comment:										
Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	-.0004	.0000	.0001	.0001	.0002	.0001	.0008	.0002	.0010	
Stddev	.0001	.0002	.0000	.0000	.0006	.0001	.0014	.0000	.0000	
%RSD	19.97	1368.	5.806	22.64	256.6	106.5	161.5	9.128	3.901	
#1	-.0005	-.0001	.0001	.0001	-.0002	.0002	.0018	.0001	.0010	
#2	-.0004	.0001	.0001	.0001	.0007	.0000	-.0001	.0002	.0009	
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	
High Limit										
Low Limit										
Int. Std.	In2306	Y_2243	Y_3600	Y_3710						
Units	Cts/S	Cts/S	Cts/S	Cts/S						
Avg	6767.4	3026.5	121410.	16625.						
Stddev	1.0	3.9	54.	73.						
%RSD	.01433	.12731	.04486	.43638						
#1	6768.1	3023.8	121450.	16574.						
#2	6766.7	3029.2	121380.	16676.						

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Sample Name: CRIA Acquired: 7/28/2014 13:31:29 Type: QC
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0049	.2040	.0107	.0504	.1041	.0499	.0040	.0520	5.060
Stddev	.0000	.0071	.0009	.0005	.0002	.0000	.0000	.0002	.046
%RSD	.1983	3.504	8.743	.9125	.2391	.0310	1.089	.3684	.9066
#1	.0049	.2091	.0101	.0508	.1042	.0499	.0041	.0519	5.092
#2	.0048	.1990	.0114	.0501	.1039	.0499	.0040	.0521	5.027

Check ? Value Range
Chk Pass Chk Pass Chk Pass None Chk Pass Chk Pass Chk Pass None Chk Pass

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0040	.0501	.0106	.0234	.0978	5.007	.4957	4.921	.0157
Stddev	.0000	.0002	.0002	.0001	.0013	.026	.0004	.037	.0000
%RSD	.7653	.3224	2.201	.4619	1.323	.5135	.0826	.7443	.1605
#1	.0040	.0503	.0104	.0234	.0987	5.025	.4960	4.947	.0157
#2	.0040	.0500	.0107	.0233	.0968	4.989	.4954	4.895	.0157

Check ? Value Range
Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass None Chk Pass Chk Pass

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1060	4.860	.0398	.0095	.0491	.0476	.0463	.0102	.0108
Stddev	.0002	.009	.0002	.0005	.0001	.0004	.0008	.0007	.0001
%RSD	.2254	.1794	.4834	5.192	.2039	.8133	1.743	6.524	1.160
#1	.1059	4.866	.0400	.0092	.0490	.0473	.0469	.0097	.0107
#2	.1062	4.854	.0397	.0099	.0491	.0478	.0457	.0107	.0109

Check ? Value Range
Chk Pass Chk Pass Chk Pass Chk Pass None None None Chk Pass Chk Pass

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Sample Name: CRIA Acquired: 7/28/2014 13:31:29 Type: QC
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0986	.0990	.0104	.0502	.0107	.0102	.0982	.0207	.0515
Stddev	.0001	.0001	.0000	.0006	.0006	.0001	.0001	.0001	.0003
%RSD	.1363	.1180	.0296	1.133	5.778	1.271	.1090	.6114	.6147
#1	.0986	.0990	.0104	.0498	.0112	.0103	.0981	.0208	.0512
#2	.0985	.0989	.0104	.0506	.0103	.0101	.0982	.0206	.0517

Check ? Value Range
None Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass None Chk Pass None

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6586.5	2989.3	119850.	16586.
Stddev	10.1	8.1	112.	55.
%RSD	.15399	.27033	.09381	.33408
#1	6593.7	2995.1	119930.	16547.
#2	6579.4	2983.6	119770.	16625.

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Sample Name: P&AAQMB1CONF Acquired: 7/28/2014 13:37:08 Type: Unk
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0004	.0023	-0.0004	.0001	.0010	-0.0001	.0001	.0008	-0.0026
Stddev	.0005	.0017	.0001	.0003	.0002	.0000	.0001	.0006	.0015
%RSD	121.6	73.88	35.20	385.1	23.36	1.434	125.2	73.67	59.57
#1	-0.0001	.0011	-0.0003	-0.0001	.0009	-0.0001	.0000	.0012	-.0015
#2	-0.0007	.0035	-0.0004	.0003	.0012	-0.0001	.0001	.0004	-.0037

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	-0.0000	.0001	-0.0002	-0.0009	-0.0012	-0.0002	-0.0140	.0000
Stddev	.0001	.0002	.0000	.0001	.0009	.0217	.0000	.0096	.0000
%RSD	82.39	540.6	9.561	39.94	101.5	1784.	.4443	68.40	113.0
#1	.0001	.0001	.0001	-.0002	-.0016	-.0166	-.0002	-.0207	.0000
#2	.0000	-.0002	.0001	-.0001	-.0003	.0141	-.0002	-.0072	.0000

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008	-0.0012	-0.0001	-0.0008	.0001	-0.0032	-0.0037	.0005	.0007
Stddev	.0001	.0028	.0001	.0005	.0002	.0012	.0005	.0006	.0004
%RSD	10.12	223.3	108.1	63.18	146.8	37.53	14.35	115.4	58.04
#1	.0009	.0007	-0.0001	-0.0011	.0002	-.0041	-.0040	.0009	.0010
#2	.0008	-0.0032	-0.0000	-0.0004	-0.0000	-0.0024	-0.0033	.0001	.0004

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0002	-0.0004	.0001	-0.0000	-0.0002	.0002	-0.0047	.0000	.0006
Stddev	.0004	.0002	.0000	.0001	.0005	.0000	.0002	.0001	.0000
%RSD	162.0	39.38	24.80	194.8	192.6	22.04	3.995	279.5	5.152
#1	-.0005	-.0003	.0001	-.0001	.0001	.0002	-.0048	-.0000	.0005
#2	.0000	-.0006	.0001	.0000	-.0006	.0003	-.0046	.0001	.0006

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Sample Name: P&AAQMB1CONF Acquired: 7/28/2014 13:37:08 Type: Unk
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6771.1	3021.3	121240.	16658.
Stddev	2.1	3.1	405.	93.
%RSD	.03153	.10095	.33383	.55536
#1	6772.6	3023.5	120960.	16724.
#2	6769.6	3019.1	121530.	16593.

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Sample Name: P&AAQ1CONF Acquired: 7/28/2014 13:42:50 Type: Unk
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1827	2.059	.5190	1.047	1.061	2.005	.5060	2.048	25.68
Stddev	.0002	.001	.0006	.000	.000	.001	.0004	.001	.06
%RSD	.1018	.0639	.1176	.0259	.0254	.0377	.0859	.0280	.2415
#1	.1828	2.060	.5195	1.046	1.061	2.006	.5057	2.047	25.63
#2	.1825	2.058	.5186	1.047	1.061	2.005	.5063	2.048	25.72

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5210	.4925	.5235	.4762	2.027	25.97	2.072	25.17	.5234
Stddev	.0007	.0006	.0012	.0003	.002	.04	.003	.07	.0014
%RSD	.1391	.1147	.2305	.0715	.1030	.1629	.1258	.2860	.2677
#1	.5215	.4921	.5226	.4759	2.026	26.00	2.074	25.12	.5224
#2	.5205	.4929	.5243	.4764	2.029	25.94	2.070	25.23	.5244

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5051	26.00	.4927	1.002	1.022	1.019	2.086	.5080	.5160
Stddev	.0002	.01	.0004	.001	.002	.000	.004	.0004	.0017
%RSD	.0460	.0454	.0736	.0573	.1539	.0225	.1666	.0737	.3294
#1	.5049	26.01	.4924	1.002	1.021	1.019	2.088	.5083	.5172
#2	.5053	25.99	.4929	1.003	1.023	1.019	2.083	.5078	.5148

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.083	1.017	.5257	.5107	.5191	.5030	1.058	.5160	.5187
Stddev	.002	.002	.0004	.0010	.0002	.0013	.001	.0001	.0023
%RSD	.1471	.2196	.0840	.1887	.0323	.2670	.0505	.0128	.4423
#1	1.082	1.018	.5260	.5101	.5190	.5021	1.058	.5159	.5204
#2	1.084	1.015	.5254	.5114	.5192	.5040	1.059	.5160	.5171

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Sample Name: P&AAQ1CONF Acquired: 7/28/2014 13:42:50 Type: Unk
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6215.2	2901.4	116800.	16612.
Stddev	6	.8	325.	36.
%RSD	.01036	.02917	.27847	.21888
#1	6214.7	2900.8	117030.	16638.
#2	6215.6	2902.0	116570.	16587.

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Sample Name: P&AAQ2CONF Acquired: 7/28/2014 13:48:17 Type: Unk
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1845	2.075	.5231	1.056	1.071	2.022	.5116	2.064	25.96
Stddev	.0003	.003	.0026	.003	.000	.001	.0004	.002	.06
%RSD	.1830	.1431	.4975	.2829	.0084	.0502	.0735	.1031	.2371
#1	.1843	2.077	.5212	1.054	1.071	2.022	.5114	2.062	25.92
#2	.1847	2.073	.5249	1.058	1.071	2.023	.5119	2.065	26.00

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5247	.4964	.5269	.4812	2.056	26.22	2.088	25.47	.5271
Stddev	.0011	.0004	.0021	.0014	.003	.00	.001	.01	.0009
%RSD	.2069	.0815	.3896	.2997	.1297	.0080	.0470	.0462	.1683
#1	.5240	.4961	.5255	.4802	2.058	26.22	2.087	25.48	.5265
#2	.5255	.4967	.5284	.4822	2.054	26.22	2.088	25.46	.5278

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5101	26.28	.4873	1.011	1.032	1.028	2.100	.5125	.5208
Stddev	.0008	.01	.0001	.001	.002	.004	.000	.0005	.0007
%RSD	.1631	.0362	.0159	.1317	.2011	.4148	.0165	.0952	.1276
#1	.5095	26.27	.4973	1.010	1.030	1.025	2.100	.5122	.5201
#2	.5107	26.29	.4974	1.012	1.033	1.031	2.101	.5129	.5210

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.094	1.027	.5299	.5143	.5210	.5066	1.068	.5203	.5115
Stddev	.002	.000	.0004	.0011	.0008	.0024	.003	.0001	.0011
%RSD	.2205	.0357	.0813	.2194	.1557	.4810	.2570	.0245	.2167
#1	1.092	1.027	.5296	.5135	.5216	.5049	1.066	.5202	.5107
#2	1.096	1.026	.5302	.5151	.5205	.5084	1.070	.5204	.5123

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Sample Name: P&AAQ2CONF Acquired: 7/28/2014 13:48:17 Type: Unk
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6217.5	2902.2	116660.	16536.
Stddev	4.4	3.7	192.	.
%RSD	.07064	.12631	.16434	.00139
#1	6220.6	2904.8	116800.	16536.
#2	6214.4	2899.6	116530.	16536.

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Sample Name: P&AAQ3CONF Acquired: 7/28/2014 13:53:45 Type: Unk
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1866	2.099	.5274	1.065	1.081	2.042	.5179	2.090	26.17
Stddev	.0009	.001	.0015	.001	.001	.001	.0012	.000	.09
%RSD	.4929	.0686	.2777	.1151	.1144	.0700	.2273	.0014	.3448
#1	.1860	2.100	.5264	1.064	1.081	2.041	.5171	2.090	26.10
#2	.1873	2.098	.5285	1.065	1.082	2.043	.5187	2.090	26.23

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5299	.5017	.5303	.4865	2.073	26.43	2.103	25.72	.5323
Stddev	.0006	.0005	.0008	.0004	.001	.01	.002	.11	.0010
%RSD	.1093	.0960	.1550	.0740	.0306	.0563	.0860	.4329	.1809
#1	.5295	.5014	.5308	.4863	2.073	26.44	2.104	25.65	.5330
#2	.5303	.5021	.5297	.4868	2.074	26.42	2.102	25.80	.5316

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5151	26.58	.5061	1.025	1.040	1.034	2.117	.5174	.5247
Stddev	.0001	.03	.0006	.000	.000	.001	.000	.0000	.0025
%RSD	.0244	.1286	.1139	.0308	.0016	.1358	.0048	.0011	.4718
#1	.5151	26.56	.5057	1.025	1.040	1.035	2.117	.5174	.5265
#2	.5152	26.60	.5065	1.025	1.041	1.033	2.117	.5174	.5230

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.112	1.044	.5346	.5173	.5270	.5105	1.077	.5262	.5146
Stddev	.001	.002	.0001	.0016	.0002	.0008	.002	.0005	.0004
%RSD	.1159	.1787	.0155	.3001	.0329	.1602	.1638	.0891	.0697
#1	1.113	1.042	.5346	.5184	.5271	.5110	1.075	.5259	.5148
#2	1.111	1.045	.5345	.5162	.5268	.5099	1.078	.5265	.5143

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Sample Name: P&AAQ3CONF Acquired: 7/28/2014 13:53:45 Type: Unk
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6214.9	2904.7	116950.	16587.
Stddev	3.8	2.8	299	56.
%RSD	.06091	.09634	.25576	.33580
#1	6212.2	2902.8	116740.	16627.
#2	6217.5	2906.7	117160.	16548.

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Sample Name: P&AAQ4CONF Acquired: 7/28/2014 13:59:12 Type: Unk
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1824	2.053	.5182	1.044	1.060	2.000	.5089	2.057	25.67
Stddev	.0001	.001	.0026	.000	.002	.001	.0002	.002	.05
%RSD	.0404	.0276	.5070	.0308	.1694	.0515	.0425	.1157	.1830
#1	.1823	2.052	.5201	1.044	1.061	2.001	.5090	2.058	25.64
#2	.1824	2.053	.5164	1.043	1.058	2.000	.5087	2.055	25.71

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5197	.4931	.5192	.4791	2.038	25.89	2.054	25.31	.5219
Stddev	.0004	.0008	.0023	.0003	.002	.04	.001	.02	.0016
%RSD	.0829	.1580	.4362	.0608	.0748	.1395	.0634	.0901	.3018
#1	.5200	.4926	.5208	.4789	2.040	25.92	2.055	25.33	.5230
#2	.5194	.4937	.5176	.4793	2.037	25.87	2.053	25.29	.5208

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5067	26.09	.4855	1.006	1.022	1.017	2.076	.5072	.5170
Stddev	.0003	.02	.0000	.001	.003	.006	.003	.0019	.0032
%RSD	.0641	.0744	.0036	.0984	.2766	.5566	.1393	.3686	.6162
#1	.5055	26.11	.4955	1.007	1.024	1.021	2.074	.5086	.5193
#2	.5059	26.08	.4955	1.006	1.020	1.013	2.078	.5059	.5148

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.090	1.028	.5240	.5061	.5189	.5019	1.050	.5159	.5050
Stddev	.001	.000	.0006	.0009	.0008	.0017	.001	.0003	.0005
%RSD	.0887	.0062	.1119	.1713	.1581	.3335	.1324	.0651	.0907
#1	1.090	1.028	.5245	.5067	.5183	.5030	1.051	.5161	.5054
#2	1.089	1.028	.5236	.5055	.5195	.5007	1.049	.5156	.5047

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Sample Name: P&AAQ4CONF Acquired: 7/28/2014 13:59:12 Type: Unk
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6216.1	2906.7	117210.	16601.
Stddev	4.5	5.4	453.	55.
%RSD	.07186	.18502	.38637	.33268
#1	6213.0	2902.9	116890.	16640.
#2	6219.3	2910.5	117530.	16562.

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Sample Name: P&ASOMB1CONF									
Acquired: 7/28/2014 14:04:39									
Type: Unk									
Method: Accutest2(v73)									
Mode: CONC									
Corr. Factor: 1.000000									
User: admin									
Custom ID1:									
Custom ID2:									
Custom ID3:									
Comment:									
Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0000	.0037	.0008	.0007	.0025	.0002	.0000	.0007	-0.0008
Stddev	.0001	.0004	.0003	.0000	.0002	.0000	.0000	.0011	.0003
%RSD	303.4	9.900	56.79	1.670	6.146	11.24	112.2	148.2	45.15
#1	-.0001	.0040	.0009	.0007	.0024	.0002	.0000	.0015	-.0008
#2	.0000	.0034	.0004	.0007	.0026	.0002	.0000	-.0000	-.0004
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	-0.0000	-0.0001	-0.0004	-0.0008	.0244	-0.0004	-0.0009	.0000
Stddev	.0000	.0000	.0000	.0002	.0015	.0016	.0000	.0014	.0000
%RSD	6.578	184.0	20.96	55.46	187.9	6.520	3.005	159.7	191.5
#1	.0001	.0000	-.0001	-.0005	.0003	.0256	-.0004	.0001	-.0000
#2	.0001	-.0001	-.0001	-.0002	-.0019	.0233	-.0004	-.0018	.0000
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008	.0048	-0.0000	-0.0009	-0.0003	.0000	-0.0030	-0.0002	.0003
Stddev	.0002	.0034	.0001	.0002	.0005	.0005	.0008	.0003	.0008
%RSD	26.30	71.35	802.5	20.65	160.1	3456.	26.61	208.4	255.9
#1	.0010	.0072	.0001	-.0010	-.0007	-.0003	-.0024	-.0004	.0008
#2	.0007	.0024	-.0001	-.0007	.0000	.0003	-.0036	.0001	-.0002
Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	-0.0001	.0001	.0001	.0002	.0002	-0.0044	.0001	.0005
Stddev	.0003	.0005	.0000	.0000	.0004	.0002	.0002	.0000	.0001
%RSD	93.18	506.3	35.69	88.12	268.5	130.1	5.038	19.10	11.10
#1	.0005	.0002	.0001	.0000	-.0002	.0000	-.0046	.0001	.0005
#2	.0001	-.0004	.0001	.0001	.0005	.0003	-.0043	.0001	.0005

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Sample Name: P&ASOMB1CONF									
Acquired: 7/28/2014 14:04:39									
Type: Unk									
Method: Accutest2(v73)									
Mode: CONC									
Corr. Factor: 1.000000									
User: admin									
Custom ID1:									
Custom ID2:									
Custom ID3:									
Comment:									
Int. Std.	In2306	Y_2243	Y_3600	Y_3710					
Units	Cts/S	Cts/S	Cts/S	Cts/S					
Avg	6805.3	3044.3	123040.	16738.					
Stddev	4.9	1.9	79.	8.					
%RSD	.07133	.06322	.06417	.05076					
#1	6808.7	3045.6	123090.	16732.					
#2	6801.9	3042.9	122980.	16744.					

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Sample Name: P&ASO1CONF									
Acquired: 7/28/2014 14:10:23									
Type: Unk									
Method: Accutest2(v73)									
Mode: CONC									
Corr. Factor: 1.000000									
User: admin									
Custom ID1:									
Custom ID2:									
Custom ID3:									
Comment:									
Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1828	2.094	.5208	1.047	1.065	2.068	.5266	2.078	26.11
Stddev	.0002	.007	.0007	.002	.002	.003	.0003	.001	.01
%RSD	.1024	.3303	.1400	.2149	.1698	.1552	.0499	.0242	.0201
#1	.1829	2.099	.5213	1.048	1.066	2.070	.5268	2.077	26.11
#2	.1826	2.089	.5203	1.045	1.064	2.066	.5265	2.078	26.11
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5252	.5001	.5323	.4918	2.081	26.45	2.124	25.87	.5354
Stddev	.0010	.0003	.0020	.0005	.007	.01	.001	.05	.0010
%RSD	.1938	.0633	.3832	.0924	.3410	.0527	.0322	.1865	.1876
#1	.5245	.4999	.5338	.4921	2.086	26.46	2.125	25.84	.5361
#2	.5259	.5003	.5309	.4914	2.076	26.44	2.124	25.90	.5346
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5232	26.81	.5018	1.005	1.042	1.032	2.058	.5137	.5154
Stddev	.0009	.01	.0012	.004	.002	.003	.001	.0007	.0001
%RSD	.1728	.0488	.2367	.4051	.2221	.2986	.0611	.1378	.0126
#1	.5225	26.81	.5009	1.002	1.044	1.034	2.057	.5132	.5155
#2	.5238	26.80	.5026	1.008	1.040	1.030	2.059	.5142	.5154
Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.085	1.036	.5388	.5232	.5124	.5183	1.106	.5208	.5297
Stddev	.001	.002	.0007	.0013	.0013	.0005	.001	.0016	.0027
%RSD	.0987	.2178	.1291	.2472	.2540	.0959	.0670	.3152	.5168
#1	1.085	1.034	.5393	.5241	.5133	.5187	1.107	.5196	.5316
#2	1.086	1.038	.5383	.5222	.5115	.5180	1.106	.5219	.5277

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Sample Name: P&ASO1CONF									
Acquired: 7/28/2014 14:10:23									
Type: Unk									
Method: Accutest2(v73)									
Mode: CONC									
Corr. Factor: 1.000000									
User: admin									
Custom ID1:									
Custom ID2:									
Custom ID3:									
Comment:									
Int. Std.	In2306	Y_2243	Y_3600	Y_3710					
Units	Cts/S	Cts/S	Cts/S	Cts/S					
Avg	6112.4	2841.4	114770.	16310.					
Stddev	19.2	8.8	402.	41.					
%RSD	.31404	.31129	.35017	.24915					
#1	6098.8	2835.2	114490.	16281.					
#2	6126.0	2847.7	115060.	16339.					

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Sample Name: P&ASO2CONF Acquired: 7/28/2014 14:15:49 Type: Unk
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1824	2.095	.5195	1.050	1.067	2.065	.5226	2.067	25.94
Stddev	.0009	.006	.0009	.001	.003	.005	.0009	.004	.03
%RSD	.4967	.2992	.1763	.1322	.2604	.2536	.1644	.2108	.0977
#1	.1818	2.091	.5188	1.049	1.065	2.068	.5232	2.064	25.96
#2	.1831	2.100	.5201	1.051	1.069	2.061	.5220	2.070	25.92
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5268	.5002	.5337	.4902	2.069	26.39	2.131	25.61	.5346
Stddev	.0011	.0007	.0014	.0004	.002	.00	.006	.01	.0004
%RSD	.2001	.1320	.2541	.0812	.1007	.0026	.2994	.0537	.0833
#1	.5260	.4997	.5328	.4899	2.067	26.39	2.136	25.62	.5342
#2	.5275	.5007	.5347	.4905	2.070	26.39	2.127	25.60	.5349
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5226	26.67	.4993	1.004	1.042	1.039	2.052	.5133	.5148
Stddev	.0014	.04	.0007	.000	.003	.005	.002	.0013	.0026
%RSD	.2595	.1323	.1433	.0082	.2469	.5096	.0795	.2484	.5087
#1	.5216	26.70	.4987	1.004	1.041	1.043	2.051	.5124	.5167
#2	.5236	26.65	.4998	1.005	1.044	1.035	2.053	.5142	.5130
Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.083	1.033	.5376	.5237	.5142	.5166	1.106	.5219	.5262
Stddev	.000	.003	.0013	.0005	.0010	.0014	.002	.0014	.0004
%RSD	.0131	.2624	.2476	.0940	.2003	.2722	.1737	.2679	.0769
#1	1.083	1.035	.5385	.5240	.5135	.5156	1.104	.5209	.5264
#2	1.083	1.032	.5366	.5234	.5150	.5176	1.107	.5228	.5259

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Sample Name: P&ASO2CONF Acquired: 7/28/2014 14:15:49 Type: Unk
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6117.4	2844.2	114680.	16407.
Stddev	9.8	2.5	155.	51.
%RSD	.16068	.08921	.13536	.31146
#1	6110.4	2842.5	114570.	16371.
#2	6124.3	2846.0	114790.	16443.

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Sample Name: P&ASO3CONF Acquired: 7/28/2014 14:21:17 Type: Unk
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1823	2.089	.5189	1.040	1.059	2.047	.5183	2.056	25.88
Stddev	.0008	.003	.0000	.000	.000	.001	.0013	.007	.04
%RSD	.4241	.1203	.0027	.0271	.0349	.0422	.2510	.3304	.1455
#1	.1817	2.091	.5169	1.040	1.059	2.047	.5174	2.061	25.86
#2	.1828	2.087	.5169	1.040	1.059	2.048	.5193	2.051	25.91
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5227	.4974	.5335	.4867	2.061	26.23	2.110	25.45	.5336
Stddev	.0008	.0004	.0012	.0002	.008	.01	.001	.11	.0018
%RSD	.1534	.0894	.2334	.0429	.3986	.0261	.0440	.4423	.3344
#1	.5221	.4971	.5326	.4868	2.055	26.24	2.110	25.37	.5323
#2	.5232	.4977	.5344	.4865	2.067	26.23	2.111	25.53	.5348
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5196	26.44	.4863	.9988	1.037	1.029	2.037	.5110	.5129
Stddev	.0006	.01	.0010	.0015	.002	.005	.001	.0006	.0014
%RSD	.1195	.0504	.2074	.1473	.1642	.4994	.0368	.1078	.2731
#1	.5192	26.43	.4955	.9978	1.038	1.033	2.037	.5114	.5139
#2	.5201	26.44	.4970	.9999	1.035	1.026	2.038	.5106	.5119
Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.070	1.023	.5333	.5231	.5117	.5158	1.089	.5194	.5202
Stddev	.000	.002	.0001	.0013	.0009	.0006	.003	.0012	.0000
%RSD	.0255	.1488	.0195	.2430	.1789	.1106	.2435	.2400	.0094
#1	1.070	1.022	.5332	.5222	.5111	.5154	1.097	.5185	.5202
#2	1.070	1.024	.5333	.5240	.5124	.5162	1.101	.5203	.5202

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Sample Name: P&ASO3CONF Acquired: 7/28/2014 14:21:17 Type: Unk
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6134.2	2853.6	114670.	16329.
Stddev	7.0	4.1	154.	14.
%RSD	.11373	.14509	.13425	.08328
#1	6129.2	2850.7	114780.	16339.
#2	6139.1	2856.5	114560.	16319.

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Sample Name: CCV Acquired: 7/28/2014 14:26:44 Type: QC
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2471	9.784	1.951	1.994	1.977	1.972	1.933	1.952	9.931
Stddev	.0007	.015	.002	.002	.003	.000	.002	.002	.000
%RSD	.2903	.1541	.1123	.0805	.1536	.0200	.0877	.0837	.0036
#1	.2466	9.773	1.950	1.995	1.975	1.972	1.934	1.951	9.931
#2	.2476	9.795	1.953	1.992	1.979	1.973	1.932	1.953	9.932

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value Range

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.975	1.937	1.986	1.882	9.778	9.831	1.968	9.656	1.990
Stddev	.003	.003	.002	.000	.009	.004	.001	.030	.003
%RSD	.1503	.1378	.1172	.0150	.0933	.0397	.0365	.3069	.1712
#1	1.973	1.935	1.987	1.881	9.784	9.834	1.967	9.635	1.993
#2	1.977	1.939	1.984	1.882	9.771	9.828	1.969	9.677	1.988

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value Range

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.964	9.630	1.911	1.924	1.920	1.957	1.974	1.932	1.937
Stddev	.005	.001	.003	.004	.004	.007	.006	.002	.005
%RSD	.2459	.0114	.1287	.2298	.2112	.3599	.3013	.1188	.2448
#1	1.960	9.631	1.909	1.921	1.917	1.962	1.979	1.931	1.933
#2	1.967	9.629	1.913	1.927	1.923	1.952	1.970	1.934	1.940

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value Range

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Sample Name: CCV Acquired: 7/28/2014 14:26:44 Type: QC
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.974	1.931	2.047	1.965	1.989	1.917	1.903	1.979	1.951
Stddev	.000	.001	.001	.002	.002	.003	.008	.007	.002
%RSD	.0212	.0548	.0276	.1184	.1222	.1759	.4433	.3335	.1043
#1	1.973	1.930	2.047	1.967	1.987	1.920	1.897	1.974	1.949
#2	1.974	1.931	2.047	1.964	1.991	1.915	1.909	1.984	1.952

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value Range

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6488.3	3034.4	120420.	16690.
Stddev	20.6	10.7	226.	20.
%RSD	.31689	.35104	.18759	.11775
#1	6502.8	3041.9	120260.	16704.
#2	6473.8	3026.8	120580.	16676.

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Sample Name: CCB Acquired: 7/28/2014 14:32:11 Type: QC
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.003	.0021	.0000	.0009	.0029	-0.001	.0001	.0008	-0.037
Stddev	.0002	.0018	.0009	.0001	.0001	.0002	.0000	.0000	.0001
%RSD	76.82	87.12	2006.	11.40	3.242	304.8	49.05	3.887	3.329
#1	-0.004	.0008	-0.006	.0009	.0029	.0001	.0001	.0008	-0.038
#2	-0.001	.0034	-0.006	.0010	.0028	-0.002	.0000	.0008	-0.036

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit Low Limit

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0001	.0001	-0.003	.0010	.0042	.0000	-0.044	.0000
Stddev	.0000	.0001	.0001	.0001	.0014	.0060	.0005	.0143	.0000
%RSD	14.40	160.0	96.54	36.67	151.0	143.3	18280.	329.1	45.43
#1	.0001	-0.0000	.0000	-0.004	-0.001	.0084	-0.004	.0058	.0001
#2	.0001	.0001	.0002	-0.002	.0020	-0.001	.0004	-0.015	.0000

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit Low Limit

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0045	-0.0070	-0.0001	-0.0007	-0.0004	-0.0020	-0.0027	.0003	.0005
Stddev	.0008	.0040	.0001	.0000	.0005	.0009	.0013	.0008	.0006
%RSD	18.25	56.79	82.52	5.585	134.3	45.12	47.60	258.2	115.2
#1	.0050	-0.0042	-0.0000	-0.0007	-0.0000	-0.0027	-0.0036	-0.0002	.0001
#2	.0039	-0.0098	-0.0001	-0.0008	-0.0007	-0.0014	-0.0018	.0008	.0010

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit Low Limit

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Sample Name: CCB Acquired: 7/28/2014 14:32:11 Type: QC
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	-0.0001	.0001	.0002	.0013	.0001	.0017	.0001	.0011
Stddev	.0002	.0001	.0000	.0001	.0003	.0001	.0013	.0000	.0000
%RSD	97.93	113.2	15.18	50.73	22.58	43.10	76.60	47.19	2.521
#1	.0001	-0.0002	.0001	.0002	.0015	.0002	.0027	.0001	.0011
#2	.0003	-0.0000	.0001	.0001	.0011	.0001	.0008	.0001	.0011

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit Low Limit

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6816.5	3043.5	122180.	16784.
Stddev	16.9	9.2	97.	36.
%RSD	.24745	.30219	.07971	.21149
#1	6828.4	3050.0	122220.	16819.
#2	6804.6	3037.0	122090.	16769.

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Sample Name: P&ASO4CONF Acquired: 7/28/2014 14:37:53 Type: Unk
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1788	2.047	.5090	1.028	1.043	2.017	.5084	2.010	25.56
Stddev	.0003	.004	.0010	.000	.000	.003	.0002	.002	.05
%RSD	.1413	.2018	.1906	.0228	.0184	.1624	.0341	.0787	.1947
#1	.1786	2.050	.5083	1.028	1.043	2.020	.5083	2.011	25.53
#2	.1789	2.044	.5097	1.028	1.043	2.015	.5086	2.009	25.60

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5126	.4876	.5236	.4746	2.021	25.86	2.079	24.98	.5216
Stddev	.0005	.0003	.0009	.0007	.007	.04	.002	.16	.0004
%RSD	.0952	.0575	.1766	.1448	.3551	.1502	.0917	.6560	.0788

#1	.5122	.4874	.5243	.4742	2.016	25.84	2.080	24.87	.5219
#2	.5129	.4878	.5230	.4751	2.026	25.89	2.078	25.10	.5214

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5105	25.92	.4858	.9801	1.013	1.006	2.005	.5007	.5049
Stddev	.0000	.00	.0008	.0010	.000	.007	.002	.0002	.0042
%RSD	.0041	.0029	.1671	.1040	.0364	.7084	.0853	.0305	.8351

#1	.5104	25.92	.4852	.9794	1.013	1.011	2.007	.5006	.5079
#2	.5105	25.92	.4863	.9808	1.013	1.001	2.004	.5008	.5020

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.050	1.004	.5270	.5130	.5040	.5027	1.083	.5105	.5318
Stddev	.003	.001	.0008	.0006	.0005	.0003	.001	.0011	.0045
%RSD	.2862	.0455	.1497	.1230	.1065	.0547	.1334	.2234	.8531

#1	1.048	1.004	.5276	.5125	.5044	.5028	1.082	.5097	.5350
#2	1.052	1.004	.5265	.5134	.5036	.5025	1.084	.5113	.5286

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Sample Name: P&ASO4CONF Acquired: 7/28/2014 14:37:53 Type: Unk
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6164.8	2865.5	115200.	16372.
Stddev	12.7	8.5	240.	20.
%RSD	.20539	.29651	.20798	.12250
#1	6155.9	2859.5	115030.	16386.
#2	6173.8	2871.5	115370.	16357.

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Sample Name: CRI Acquired: 7/28/2014 14:43:21 Type: QC
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0049	.1964	.0049	.0513	.1049	.0500	.0041	.0515	5.085
Stddev	.0001	.0072	.0002	.0008	.0001	.0003	.0000	.0012	.040
%RSD	1.730	3.657	3.771	1.588	.1099	.5679	.4534	2.423	.7871

#1	.0048	.2015	.0051	.0518	.1049	.0502	.0041	.0506	5.093
#2	.0049	.1914	.0048	.0507	.1048	.0498	.0040	.0524	5.037

Check ? Chk Pass Chk Pass Chk Pass None Chk Pass Chk Pass Chk Pass None Chk Pass
Value
Range

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0040	.0501	.0108	.0233	1.006	4.966	.4881	4.823	.0158
Stddev	.0000	.0002	.0002	.0002	.0002	.010	.0001	.016	.0000
%RSD	1.023	.3678	1.911	.7355	.2443	.2085	.0226	.3302	.1363

#1	.0039	.0499	.0109	.0232	1.004	4.973	.4880	4.912	.0158
#2	.0040	.0502	.0106	.0234	1.007	4.959	.4882	4.935	.0158

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass None Chk Pass Chk Pass
Value
Range

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1053	4.843	.0046	.0046	.0491	.0513	.0473	.0055	.0097
Stddev	.0005	.002	.0002	.0001	.0001	.0006	.0009	.0001	.0001
%RSD	.4816	.0415	.5907	1.590	.1617	1.128	1.834	1.215	1.055

#1	.1049	4.844	.0404	.0045	.0490	.0509	.0467	.0056	.0096
#2	.1057	4.841	.0408	.0046	.0491	.0517	.0479	.0055	.0097

Check ? Chk Pass Chk Pass Chk Pass Chk Pass None None None Chk Pass Chk Pass
Value
Range

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Sample Name: CRI Acquired: 7/28/2014 14:43:21 Type: QC
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0995	.0989	.0106	.0498	.0057	.0100	.0974	.0212	.0348
Stddev	.0004	.0008	.0000	.0000	.0000	.0001	.0007	.0000	.0005
%RSD	.3982	.7971	.4345	.0328	.5874	.6862	.7204	.1217	1.471

#1	.0993	.0983	.0105	.0498	.0057	.0100	.0979	.0212	.0344
#2	.0998	.0994	.0106	.0497	.0058	.0100	.0969	.0212	.0351

Check ? None Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass None Chk Pass None
Value
Range

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6650.5	3020.8	121200.	16685.
Stddev	10.7	2.6	329.	27.
%RSD	.16093	.08676	.27158	.16105
#1	6658.1	3022.6	121430.	16666.
#2	6642.9	3018.9	120960.	16704.

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Sample Name: CRIB Acquired: 7/28/2014 14:48:59 Type: QC									
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0046	.1986	.0110	.0506	.1042	.5026	.0040	.0509	5.063
Stddev	.0000	.0021	.0009	.0008	.0001	.0004	.0000	.0006	.021
%RSD	.3644	1.059	8.510	1.637	.1245	.0798	.4233	1.174	.4170
#1	.0046	.2001	.0117	.0500	.1041	.5029	.0040	.0505	5.078
#2	.0046	.1971	.0104	.0511	.1043	.5023	.0041	.0513	5.048
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value									
Range									
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0040	.0503	.0109	.0235	.0981	4.953	.4915	4.894	.0157
Stddev	.0001	.0001	.0001	.0001	.0002	.034	.0002	.005	.0000
%RSD	1.749	.2946	1.075	.5317	.1619	.6889	.0350	.1100	.2161
#1	.0040	.0502	.0110	.0236	.0982	4.977	.4916	4.898	.0158
#2	.0039	.0504	.0108	.0234	.0980	4.929	.4914	4.891	.0157
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
Value									
Range									
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1059	4.830	.0410	.0091	.0488	.0495	.0469	.0061	.0254
Stddev	.0001	.008	.0001	.0001	.0006	.0013	.0008	.0001	.0004
%RSD	.0975	.1644	.2208	1.058	1.167	2.605	1.809	1.251	1.465
#1	.1058	4.836	.0411	.0092	.0484	.0505	.0463	.0060	.0251
#2	.1059	4.825	.0410	.0090	.0492	.0486	.0475	.0061	.0256
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None	None	Chk Pass	Chk Pass
Value									
Range									

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Sample Name: CRIB Acquired: 7/28/2014 14:48:59 Type: QC									
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0954	.0991	.0106	.0497	.0057	.0102	.0961	.1077	.0408
Stddev	.0002	.0001	.0001	.0003	.0002	.0005	.0003	.0002	.0003
%RSD	.2294	.0959	.9627	.6933	3.735	4.629	.3337	.2122	.8190
#1	.0955	.0992	.0105	.0499	.0058	.0105	.0958	.1078	.0406
#2	.0952	.0990	.0106	.0494	.0055	.0099	.0963	.1075	.0410
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	None
Value									
Range									
Int. Std.	In2306	Y_2243	Y_3600	Y_3710					
Units	Cts/S	Cts/S	Cts/S	Cts/S					
Avg	6633.0	3011.7	12057.0	16597.					
Stddev	9.5	3.3	19.	115.					
%RSD	.14349	.11016	.01613	.69220					
#1	6639.8	3014.1	120560.	16516.					
#2	6626.3	3009.4	120590.	16679.					

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Sample Name: CRIA Acquired: 7/28/2014 14:54:36 Type: QC									
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0051	.1985	.0107	.0506	.1041	.0502	.0040	.0525	5.030
Stddev	.0001	.0040	.0005	.0005	.0004	.0001	.0000	.0000	.009
%RSD	2.185	2.018	4.833	1.028	.3610	.2506	.6440	.0203	.1841
#1	.0051	.1957	.0103	.0502	.1039	.0501	.0040	.0525	5.036
#2	.0050	.2014	.0110	.0510	.1044	.0503	.0040	.0524	5.023
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value									
Range									
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0040	.0501	.0108	.0234	.1012	4.979	.4930	4.896	.0156
Stddev	.0000	.0001	.0002	.0004	.0010	.030	.0015	.014	.0000
%RSD	.4273	.2038	1.462	1.692	1.037	.5968	.3007	.2768	.3073
#1	.0040	.0501	.0107	.0231	.1005	5.000	.4941	4.886	.0156
#2	.0040	.0502	.0110	.0237	.1020	4.958	.4920	4.906	.0157
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
Value									
Range									
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1054	4.841	.0400	.0091	.0490	.0496	.0478	.0099	.0110
Stddev	.0007	.013	.0003	.0007	.0004	.0002	.0000	.0001	.0002
%RSD	.6714	.2578	.7868	7.392	.7848	.5024	.0163	1.385	1.813
#1	.1049	4.850	.0398	.0086	.0493	.0494	.0478	.0098	.0108
#2	.1059	4.832	.0403	.0095	.0487	.0498	.0479	.0100	.0111
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None	None	Chk Pass	Chk Pass
Value									
Range									

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Sample Name: CRIA Acquired: 7/28/2014 14:54:36 Type: QC									
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0984	.0994	.0105	.0500	.0111	.0100	.0948	.0213	.0444
Stddev	.0002	.0002	.0000	.0004	.0002	.0001	.0001	.0000	.0004
%RSD	.1662	.2481	.0399	.7063	1.653	1.003	.0901	.0307	.8549
#1	.0985	.0996	.0105	.0497	.0109	.0100	.0948	.0213	.0441
#2	.0983	.0992	.0105	.0502	.0112	.0101	.0949	.0213	.0447
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	None
Value									
Range									
Int. Std.	In2306	Y_2243	Y_3600	Y_3710					
Units	Cts/S	Cts/S	Cts/S	Cts/S					
Avg	6619.3	3003.6	120220.	16732.					
Stddev	9.1	4.6	361.	31.					
%RSD	.13686	.15163	.30007	.18565					
#1	6625.7	3006.8	119970.	16710.					
#2	6612.9	3000.3	120480.	16754.					

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Sample Name: ICSA Acquired: 7/28/2014 15:00:15 Type: QC									
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.010	512.5	-0.001	-0.039	.0010	.0005	.0001	.0004	452.8
Stddev	.0000	3.0	.0002	.0002	.0005	.0000	.0000	.0012	1.4
%RSD	2.886	.5869	235.8	6.088	50.64	7.462	70.37	297.9	.3173
#1	-.0010	514.6	-.0002	.0040	.0006	.0005	.0000	-.0005	451.8
#2	-.0011	510.4	.0001	.0037	.0013	.0005	.0001	.0013	453.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0012	.0007	-.0014	177.2	-.1373	.0038	507.9	-.0021
Stddev	.0000	.0001	.0003	.0000	.0	.0151	.0004	.2	.0001
%RSD	1.348	7.388	40.48	3.379	.0015	10.97	9.404	.0301	3.119
#1	.0004	.0013	.0005	-.0015	177.2	-.1266	.0035	507.7	-.0020
#2	.0004	.0012	.0010	-.0014	177.2	-.1479	.0040	508.0	-.0021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit									
Low Limit									
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013	.0975	.0009	.0008	-.0160	-.0179	.0183	.0004	-.0004
Stddev	.0001	.0044	.0002	.0005	.0011	.0033	.0003	.0003	.0005
%RSD	8.199	4.545	27.21	58.23	7.016	18.24	1.426	77.77	134.2
#1	.0014	.0943	.0007	.0011	-.0152	-.0156	.0181	.0002	-.0000
#2	.0012	.1006	.0010	.0005	-.0168	-.0202	.0185	.0006	-.0007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

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Sample Name: ICSA Acquired: 7/28/2014 15:00:15 Type: QC									
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0069	.0023	.0013	-0.001	.0015	.0012	.0068	-.0010	.0025
Stddev	.0003	.0005	.0000	.0002	.0002	.0001	.0015	.0000	.0000
%RSD	4.013	21.79	2.311	186.0	13.53	7.811	21.86	1.954	1.273
#1	.0067	.0019	.0013	-.0002	.0014	.0012	.0057	-.0010	.0025
#2	.0071	.0026	.0013	.0000	.0017	.0013	.0078	-.0010	.0025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									
Int. Std.	In2306	Y_2243	Y_3600	Y_3710					
Units	Cts/S	Cts/S	Cts/S	Cts/S					
Avg	5316.1	2664.4	104260.	16125.					
Stddev	2.7	2.5	30.	23.					
%RSD	.05090	.09537	.02862	.14090					
#1	5318.0	2666.2	104280.	16109.					
#2	5314.1	2662.6	104240.	16141.					

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Sample Name: ICSAB Acquired: 7/28/2014 15:06:00 Type: QC									
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.050	515.5	2.009	.5191	.9760	.4770	.4655	.4793	452.1
Stddev	.000	7.4	.001	.0003	.0003	.0007	.0003	.0005	.6
%RSD	.0288	1.434	.0356	.0491	.0271	.1378	.0697	.1129	.1387
#1	1.050	520.7	2.008	.5193	.9762	.4766	.4653	.4797	452.5
#2	1.049	510.3	2.009	.5189	.9759	.4775	.4658	.4789	451.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit									
Low Limit									
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.010	.4624	.4686	.4968	177.3	-.1453	.5199	505.0	.4781
Stddev	.001	.0009	.0008	.0006	.0	.0176	.0017	.3	.0004
%RSD	.0469	.1858	.1812	.1120	.0188	12.15	.3211	.0579	.0876
#1	1.009	.4618	.4680	.4964	177.3	-.1578	.5187	504.8	.4758
#2	1.010	.4630	.4692	.4972	177.2	-.1328	.5211	505.2	.4764
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit									
Low Limit									
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9163	.1030	.8852	.8960	.5213	.4922	.5245	2.054	1.983
Stddev	.0014	.0006	.0024	.0005	.0018	.0006	.0030	.001	.002
%RSD	.1556	.5778	.2737	.0505	.3374	.1209	.5783	.0440	.0732
#1	.9153	.1034	.8835	.8956	.5201	.4918	.5266	2.055	1.982
#2	.9173	.1026	.8869	.8963	.5225	.4926	.5224	2.053	1.984
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

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Sample Name: ICSAB Acquired: 7/28/2014 15:06:00 Type: QC									
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.960	.8780	.9985	.4719	1.787	.4617	1.816	.8794	.3613
Stddev	.000	.0004	.0006	.0000	.005	.0004	.003	.0013	.0072
%RSD	.0179	.0486	.0594	.0072	.2667	.0797	.1883	.1493	1.983
#1	1.960	.8783	.9991	.4719	1.783	.4615	1.814	.8784	.3563
#2	1.960	.8777	.9999	.4720	1.790	.4620	1.819	.8803	.3664
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit									
Low Limit									
Int. Std.	In2306	Y_2243	Y_3600	Y_3710					
Units	Cts/S	Cts/S	Cts/S	Cts/S					
Avg	5307.1	2659.7	104050.	16086.					
Stddev	7.2	1.1	52.	40.					
%RSD	.13473	.04217	.05036	.24577					
#1	5312.2	2658.9	104090.	16068.					
#2	5302.1	2660.5	104020.	16124.					

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Sample Name: CCV Acquired: 7/28/2014 15:11:39 Type: QC
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2495	9.833	1.969	2.018	1.998	1.987	1.936	1.963	9.984
Stddev	.0001	.002	.002	.004	.003	.006	.001	.003	.036
%RSD	.0340	.0220	.0873	.2049	.1620	.2889	.0562	.1306	.3613
#1	2495	9.832	1.968	2.021	1.995	1.991	1.937	1.961	9.958
#2	2494	9.835	1.970	2.015	2.000	1.983	1.936	1.965	10.01

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass None Chk Pass
Value
Range

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.989	1.947	2.005	1.892	9.825	9.895	1.980	9.610	2.004
Stddev	.001	.002	.004	.002	.025	.033	.007	.032	.004
%RSD	.0610	.0902	.2233	.1243	.2589	.3358	.3660	.3313	.2126
#1	1.988	1.945	2.008	1.890	9.807	9.919	1.985	9.588	2.007
#2	1.990	1.948	2.002	1.893	9.842	9.872	1.975	9.633	2.001

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.979	9.673	1.917	1.935	1.930	1.971	1.994	1.948	1.956
Stddev	.006	.028	.002	.003	.001	.005	.006	.002	.002
%RSD	.2906	.2900	.1078	.1564	.0737	.2658	.3230	.1136	.1118
#1	1.975	9.693	1.915	1.933	1.929	1.967	1.990	1.946	1.955
#2	1.983	9.653	1.918	1.937	1.931	1.975	1.999	1.949	1.958

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

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Sample Name: CCV Acquired: 7/28/2014 15:11:39 Type: QC
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.984	1.936	2.061	1.988	2.004	1.930	1.922	1.990	2.000
Stddev	.004	.002	.004	.003	.001	.002	.003	.002	.004
%RSD	.1971	.0813	.1980	.1459	.0487	.0867	.1634	.0911	.1978
#1	1.981	1.935	2.064	1.990	2.003	1.931	1.920	1.988	2.003
#2	1.987	1.937	2.058	1.986	2.004	1.929	1.924	1.991	1.998

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6428.5	3000.3	118820.	16556.
Stddev	.6	.5	272.	90.
%RSD	.00899	.01810	.22866	.54416
#1	6428.1	2999.9	118630.	16620.
#2	6428.9	3000.7	119010.	16492.

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Sample Name: CCB Acquired: 7/28/2014 15:18:21 Type: QC
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.002	.0073	.0012	.0009	.0021	.0001	.0001	.0006	.0069
Stddev	.0000	.0016	.0006	.0003	.0005	.0002	.0000	.0005	.0020
%RSD	26.90	21.36	51.92	37.17	24.50	195.2	40.08	86.47	28.80
#1	-0.002	.0084	.0017	.0007	.0025	-0.0000	.0001	.0002	.0055
#2	-0.001	.0062	.0008	.0012	.0018	.0002	.0001	.0010	.0083

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0002	.0001	-0.0003	.0043	-0.0043	.0007	.0063	.0001
Stddev	.0000	.0001	.0002	.0002	.0013	.0083	.0006	.0313	.0000
%RSD	5.081	28.84	134.7	59.14	30.28	193.4	88.60	497.8	17.48
#1	.0002	.0001	.0003	-0.0002	.0034	-0.0102	.0002	.0284	.0001
#2	.0002	.0002	.0000	-0.0004	.0052	.0016	.0011	-0.0158	.0001

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0032	-0.0069	.0003	-0.0008	-0.0001	-0.0005	-0.0030	.0005	-0.0002
Stddev	.0006	.0000	.0000	.0001	.0002	.0001	.0008	.0003	.0005
%RSD	17.51	.3369	10.05	15.39	115.4	24.71	26.25	72.97	311.2
#1	.0036	-0.0069	.0003	-0.0009	-0.0000	-0.0006	-0.0035	.0002	-0.0005
#2	.0028	-0.0068	.0003	-0.0008	-0.0003	-0.0004	-0.0024	.0007	.0002

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

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Sample Name: CCB Acquired: 7/28/2014 15:18:21 Type: QC
Method: Accutest2(v73) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	-0.0002	.0001	.0001	.0002	.0002	.0009	.0001	.0009
Stddev	.0000	.0001	.0000	.0001	.0004	.0002	.0006	.0001	.0000
%RSD	11.00	47.54	18.61	116.9	201.9	123.2	65.09	129.9	1.730
#1	.0004	-0.0003	.0001	.0000	.0004	.0003	.0013	.0000	.0009
#2	.0004	-0.0001	.0002	.0002	-0.0001	.0000	.0005	.0001	.0009

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6761.6	3014.6	121170.	16562.
Stddev	7.9	3.0	153.	69.
%RSD	.11627	.09835	.12614	.41709
#1	6767.2	3016.7	121070.	16611.
#2	6756.1	3012.5	121280.	16513.

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Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
Ag 328.068 {103}	☒	10	Fe	-0.000116	0.000000	No
			Mn	0.000152	0.000000	No
			Ti	-0.000050	0.000000	No
			V	-0.000162	0.000000	No
			Cu	-0.000013	0.000000	No
			Mo	-0.000050	0.000000	No
			Zr	0.003220	0.000000	No
			Al	-0.000002	0.000000	No
			Ca	-0.000002	0.000000	No
			Mg	-0.000001	0.000000	No
Al 396.152 { 85}	☒	4	Na	0.000009	0.000000	No
			Mo	0.037838	0.000000	No
			Mn	0.000235	0.000000	No
			Ca	-0.000018	0.000000	No
As 189.042 {478}	☒	15	Fe	-0.000002	0.000000	No
			Mg	0.000001	0.000000	No
			Ca	-0.000004	0.000000	No
			Na	0.000002	0.000000	No
			Mn	-0.000008	0.000000	No
			Co	-0.000948	0.000000	No
			Cr	0.000646	0.000000	No
			Mo	0.001028	0.000000	No
			Ti	-0.000034	0.000000	No
			V	0.000146	0.000000	No
			Al	0.000002	0.000000	No
			Pd	0.032033	0.000000	No
			Zr	0.000110	0.000000	No
			B	0.000078	0.000000	No
			W	0.001172	0.000000	No
Au 242.795 {139}	☒	3	Fe	0.000181	0.000000	No
			Mn	0.004052	0.000000	No
			W	-0.000521	0.000000	No
B 208.959 {462}	☒	4	Si	0.000676	0.000000	No
			Mo	0.021427	0.000000	No
			Ti	0.000480	0.000000	No
			V	0.001000	0.000000	No
Ba 455.403 { 74}	☒	1	Ca	0.000010	0.000000	No
Be 313.042 {108}	☒	2	Ti	-0.000320	0.000000	No
			V	0.000252	0.000000	No
Bi 223.061 {451}	☒	7	Fe	0.000031	0.000000	No
			Co	-0.001818	0.000000	No
			Cr	0.001095	0.000000	No
			Ti	-0.000285	0.000000	No
			V	-0.001151	0.000000	No
			Cu	-0.002297	0.000000	No
			W	-0.002833	0.000000	No
Ca 317.933 {106}	☒	2	Al	0.000075	0.000000	No
Cd 228.802 {448}	☒	7	Mg	0.000046	0.000000	No
			Fe	0.000031	0.000000	No
			Mg	0.000002	0.000000	No
			Co	-0.001714	0.000000	No
			Ni	-0.000180	0.000000	No
			Ca	0.000000	0.000000	No
			V	0.000084	0.000000	No
Co 228.616 {448}	☒	4	W	-0.000651	0.000000	No
			Fe	0.000025	0.000000	No
			Mo	-0.000377	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
			Ti	0.002062	0.000000	No
			Mg	0.000002	0.000000	No
Cr 267.716 {126}	☒	5	Cu	0.000061	0.000000	No
			Al	0.000003	0.000000	No
			Fe	-0.000007	0.000000	No
			Mn	0.000179	0.000000	No
			W	0.000391	0.000000	No
Cu 324.754 {104}2	☒	8	Fe	-0.000081	0.000000	No
			Co	-0.000724	0.000000	No
			Mo	0.000130	0.000000	No
			V	-0.000144	0.000000	No
			Zr	-0.001600	0.000000	No
			Mn	-0.000046	0.000000	No
			Ca	0.000003	0.000000	No
			Ti	-0.000000	0.000000	No
Fe 259.940 {130}	☒	None				
In 230.606 {446}*	☒	None				
K 766.490 { 44}	☒	1	Na	0.000226	0.000000	No
Li 670.784 { 50}	☒	2	Ca	0.000024	0.000000	No
			Na	0.000048	0.000000	No
Mg 279.079 {121}	☒	2	Fe	-0.000180	0.000000	No
			Mo	-0.009670	0.000000	No
Mn 257.610 {131}	☒	3	Fe	-0.000015	0.000000	No
			Ca	0.000003	0.000000	No
			Si	0.000235	0.000000	No
Mo 202.030 {467}	☒	8	Al	-0.000002	0.000000	No
			Mg	-0.000002	0.000000	No
			Ca	0.000001	0.000000	No
			Na	-0.000007	0.000000	No
			Mn	-0.000036	0.000000	No
			Co	0.000002	0.000000	No
			Cu	0.000020	0.000000	No
			Ni	0.000009	0.000000	No
Na 589.592 { 57}	☒	1	Al	0.000506	0.000000	No
Ni 231.604 {446}	☒	5	Co	-0.000195	0.000000	No
			Mo	-0.000088	0.000000	No
			Fe	0.000032	0.000000	No
			Al	0.000000	0.000000	No
			Ca	-0.000001	0.000000	No
Pb 220.353 {453}	☒	15	Fe	0.000044	0.000000	No
			Al	-0.000066	0.000000	No
			Si	0.000074	0.000000	No
			Co	-0.000061	0.000000	No
			Cu	0.000128	0.000000	No
			Ni	0.000034	0.000000	No
			Mo	-0.001431	0.000000	No
			Mg	-0.000000	0.000000	No
			Ca	-0.000007	0.000000	No
			Mn	0.000021	0.000000	No
			S	-0.000030	0.000000	No
			Na	-0.000002	0.000000	No
			Ti	-0.000148	0.000000	No
			V	-0.000062	0.000000	No
			W	-0.005210	0.000000	No
Pd 340.458 { 99}	☒	4	Fe	-0.000259	0.000000	No
			Ca	0.000016	0.000000	No
			Co	-0.004770	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
Pt 265.945 {127}	☒	7	Ti	-0.000900	0.000000	No
			Fe	-0.000028	0.000000	No
			Al	-0.000018	0.000000	No
			Mn	-0.001394	0.000000	No
			Cr	0.004108	0.000000	No
			Mo	-0.001488	0.000000	No
			V	-0.000710	0.000000	No
S 182.034 {485}	☒	8	W	-0.001172	0.000000	No
			Fe	0.000603	0.000000	No
			Al	-0.000004	0.000000	No
			Mg	-0.000007	0.000000	No
			Ca	-0.000036	0.000000	No
			Mn	0.004670	0.000000	No
			Mo	-0.004370	0.000000	No
Sb 206.833 {463}	☒	12	Ti	0.001690	0.000000	No
			W	-0.022143	0.000000	No
			Fe	0.000022	0.000000	No
			Al	-0.000030	0.000000	No
			Mg	0.000002	0.000000	No
			Ca	0.000000	0.000000	No
			Cr	0.006268	0.000000	No
			Ni	-0.000393	0.000000	No
			Mo	-0.002012	0.000000	No
			Cu	0.000038	0.000000	No
			Sn	-0.005930	0.000000	No
			Zr	-0.000420	0.000000	No
Se 196.090 {472}	☒	14	Ti	0.000029	0.000000	No
			V	-0.001561	0.000000	No
			Fe	-0.000183	0.000000	No
			Al	-0.000002	0.000000	No
			Mg	-0.000004	0.000000	No
			Ca	-0.000005	0.000000	No
			Na	0.000002	0.000000	No
			Co	-0.000097	0.000000	No
			Ni	-0.000130	0.000000	No
			Mn	0.000442	0.000000	No
			Sn	0.000400	0.000000	No
			Pd	-0.004011	0.000000	No
			V	-0.000017	0.000000	No
			Mo	0.000037	0.000000	No
Si 212.412 {459}	☒	4	Ti	-0.000100	0.000000	No
			W	0.010257	0.000000	No
			Al	0.000049	0.000000	No
			Mo	0.024726	0.000000	No
Sn 189.989 {478}	☒	1	Ti	0.014652	0.000000	No
			V	0.044469	0.000000	No
			Ti	-0.001590	0.000000	No
Sr 407.771 {83}	☒	None				
Ti 334.904 {101}	☒	3	Mo	0.000248	0.000000	No
			Ca	0.000004	0.000000	No
Ti 190.856 {477}	☒	11	Al	0.000006	0.000000	No
			Al	-0.000003	0.000000	No
			Mg	-0.000001	0.000000	No
			Ca	-0.000003	0.000000	No
			Na	-0.000003	0.000000	No
			Mn	0.000747	0.000000	No
			Co	0.001673	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
			Cr	0.000257	0.000000	No
			Ti	-0.002873	0.000000	No
			V	-0.033139	0.000000	No
			Fe	0.000007	0.000000	No
			Mo	-0.000048	0.000000	No
V 292.402 {115}	☒	5	Fe	0.000029	0.000000	No
			Mn	-0.000156	0.000000	No
			Cr	-0.002311	0.000000	No
			Mo	-0.006353	0.000000	No
			Ti	0.000672	0.000000	No
W 207.911 {462}	☒	6	Co	-0.000470	0.000000	No
			Cr	-0.000390	0.000000	No
			Cu	-0.000430	0.000000	No
			Ni	-0.000440	0.000000	No
			Ti	-0.000410	0.000000	No
			V	-0.000520	0.000000	No
Y 224.306 {451}* Y 360.073 { 94}* Y 371.030 { 91}* Zn 206.200 {464}	☒ ☒ ☒ ☒	None None None 7				
			Mg	0.000002	0.000000	No
			Al	0.000003	0.000000	No
			Ca	0.000002	0.000000	No
			Na	0.000004	0.000000	No
			Cr	-0.000410	0.000000	No
			Ti	0.000095	0.000000	No
			Fe	-0.000000	0.000000	No
Zr 339.198 { 99}	☒	5	Fe	-0.000043	0.000000	No
			Ti	0.002216	0.000000	No
			V	0.003207	0.000000	No
			Mo	0.000594	0.000000	No
			S	-0.000027	0.000000	No



Date:	07/25/14
Time	9:15

Name:	KERRYR		
MP Batch ID:	MP23398		
QC Sample ID:	MC32345-5		
Reagent Lot #			
1:1 HNO3			
1:1 HCL	RGT-41150-METALS		
Conc HNO3	VENDOR-14776		
H2O2			
LCS			
Filter Paper Lot #			
Digestion Tube Lot #	132222		
Dig Block ID:	4	Therm ID	GN017
Dig Block ID:		Therm ID	
Balance ID:	N/A	Repipetor ID	1

Aqueous EPA 200.7/ 200.8	☐	WW 
Aqueous SW846 3010A	☒	
Soil SW846 3050B	☐	

ML Used		Spike Lot#		
0.5		METSTK-1158-METALS		
Spike ID		MPICP ▼		
96	Factor	-1	Corrected Temp C	95
	Factor		Corrected Temp C	

Note: (A) Serial dilution shown for QC purposes only (not a separate digestion). (B) For DW samples <1NTU, measure pH prior to analysis.

[illegible]

Protected Worksheet
(Format edits must be done by Dept. Manager)

MMP003-02

QC Review EAL

Date: 07/29/14

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries
- Instrument Runlogs/QC

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: MC32345
Account: WSPEPAP - WSP Environment & Energy
Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Cyanide	GP17921/GN47733	0.010	0.0	mg/l	0.1	0.101	101.0	90-110%
Cyanide	GP17921/GN47733			mg/l	0.2	0.199	99.5	90-110%

Associated Samples:
Batch GP17921: MC32345-1, MC32345-2, MC32345-5, MC32345-6, MC32345-7, MC32345-8, MC32345-9, MC32345-11
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: MC32345
Account: WSPEPAP - WSP Environment & Energy
Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Cyanide	GP17921/GN47733	MC32345-5	mg/l	1.0	1.0	0.0	0-20%

Associated Samples:

Batch GP17921: MC32345-1, MC32345-2, MC32345-5, MC32345-6, MC32345-7, MC32345-8, MC32345-9, MC32345-11
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: MC32345
Account: WSPEPAP - WSP Environment & Energy
Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Cyanide	GP17921/GN47733	MC32345-5	mg/l	1.0	0.1	1.2	200.0(a)	75-125%

Associated Samples:

Batch GP17921: MC32345-1, MC32345-2, MC32345-5, MC32345-6, MC32345-7, MC32345-8, MC32345-9, MC32345-11

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: MC32345

Account: WSPEPAP - WSP Environment & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: 072514W1.CN

Date Analyzed: 07/25/14

Methods: SW846 9012

Analyst: MA

Run ID: GN47733

Parameters: Cyanide

Time	Sample Description	Dilution Factor	PS Recov	Comments
12:38	GN47733-STD1	1		STDA0.50
12:39	GN47733-STD2	1		STDB0.30
12:40	GN47733-STD3	1		STDC0.20
12:41	GN47733-STD4	1		STDD0.10
12:42	GN47733-STD5	1		STDE0.030
12:43	GN47733-STD6	1		STDF0.010
12:44	GN47733-STD7	1		STDG0.00
12:47	GN47733-ICV1	1		
12:48	GN47733-ICB1	1		
12:49	GN47733-CCV1	1		
12:50	GN47733-CCB1	1		
12:51	GP17921-MB1	1		
12:52	GP17921-B1	1		
12:53	GP17921-B2	1		
12:54	ZZZZZZ	1		DNR, off scale
12:55	ZZZZZZ	1		DNR, off scale
12:56	ZZZZZZ	1		DNR, off scale
12:57	ZZZZZZ	1		DNR, off scale
12:58	ZZZZZZ	1		DNR, off scale
12:59	ZZZZZZ	1		DNR, off scale
13:00	MC32345-7	1		
13:02	GN47733-CCV2	1		
13:03	GN47733-CCB2	1		
13:04	ZZZZZZ	1		DNR, offscale
13:05	ZZZZZZ	1		DNR, offscale
13:06	ZZZZZZ	1		DNR, offscale
13:07	GP17921-S1	10		
13:08	GP17921-D1	10		
13:09	MC32345-5	10		
13:10	MC32345-1	20		
13:11	MC32345-2	20		
13:12	MC32345-6	2		
13:13	MC32345-8	5		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: MC32345

Account: WSPEPAP - WSP Environment & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: 072514W1.CN

Date Analyzed: 07/25/14

Methods: SW846 9012

Analyst: MA

Run ID: GN47733

Parameters: Cyanide

Time	Sample Description	Dilution Factor	PS Recov	Comments
13:14	GN47733-CCV3	1		
13:15	GN47733-CCB3	1		
13:16	MC32345-9	40		
13:17	MC32345-11	20		
13:18	GN47733-CCV4	1		
13:19	GN47733-CCB4	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: MC32345

Account: WSPEPAP - WSP Environment & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: 072514W1.CN

Date Analyzed: 07/25/14

Methods: SW846 9012

Run ID: GN47733

Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN47733-ICV1	Cyanide	0.20	0.010	0.0014	.2	100.0	90-110
GN47733-ICB1	Cyanide	-0.0050	0.010	0.0014			
GN47733-CCV1	Cyanide	0.30	0.010	0.0014	.3	100.0	90-110
GN47733-CCB1	Cyanide	-0.0043	0.010	0.0014			
GN47733-CCV2	Cyanide	0.30	0.010	0.0014	.3	100.0	90-110
GN47733-CCB2	Cyanide	-0.0057	0.010	0.0014			
GN47733-CCV3	Cyanide	0.31	0.010	0.0014	.3	103.3	90-110
GN47733-CCB3	Cyanide	-0.0059	0.010	0.0014			
GN47733-CCV4	Cyanide	0.30	0.010	0.0014	.3	100.0	90-110
GN47733-CCB4	Cyanide	-0.0055	0.010	0.0014			

(!) Outside of QC limits

10.4
10

General Chemistry

Raw Data

Reagents					
Calib STD	GNSTD.	34590-CN	Buffer	RGT.	41719-CN
ICV	GNSTD.	34582-CN-2	Carrier	RGT.	41375-CN
CCV	GNSTD.	34590-CN-4	Chloramine-T	RGT.	41854-CN
			Pyridine Barb. Acid	RGT.	41720-CN

QC Review

Date: 7/25/14



Distillation

Protected Worksheet

MGN127-01

(Format edits must be done by Dept. manager)

Analyst:	MEHDIA	Date	7/25/14	Batch ID	GP17921	Matrix	Aqueous																
QC Sample	MC32345-5	Balance ID	N/A	pH Meter ID	N/A	Block ID	MICRO																
Analysis Type																							
CN	EPA 335.4	☐	CN	SW846 9010B	☒	CN-A	SM21 4500CN-G/335.4	☐	CN-A	SW846 9010	☐												
PAC	MADEP	☐	CREAC	Chap 7	☐	SREAC	Chap7	☐	CNWAD	SM20 4500CN-I	☐												
Sample ID	Bot #	ID	Interfere Chk		Init. pH	SMPL Amt	DIST Vol	Start Time	End Time	Comments/Spike													
			CL	S		ML	ML																
GP17921-MB1		N/A	ND	ND	>12	6	6	9:17	9:37														
GP17921-B1		N/A	ND	ND	>12	6	6	9:17	9:37	0.10 ML OF SPIKE													
GP17921-S1	1	N/A	ND	ND	>12	6	6	9:17	9:37	0.10 ML OF SPIKE													
GP17921-D1	1	N/A	ND	ND	>12	6	6	9:17	9:37														
GP17921-B2		N/A	ND	ND	>12	6	6	9:17	9:37	0.20 ML OF SPIKE													
MC32345-1	1	N/A	ND	ND	>12	6	6	9:17	9:37														
MC32345-11	1	N/A	ND	ND	>12	6	6	9:17	9:37														
MC32345-2	1	N/A	ND	ND	>12	6	6	9:17	9:37														
MC32345-5	1	N/A	ND	ND	>12	6	6	9:17	9:37														
MC32345-6	1	N/A	ND	ND	>12	6	6	9:17	9:37														
MC32345-7	1	N/A	ND	ND	>12	6	6	9:17	9:37														
MC32345-8	1	N/A	ND	ND	>12	6	6	9:17	9:37														
MC32345-9	1	N/A	ND	ND	>12	6	6	9:17	9:37														
ICV		N/A	ND	ND	>12	6	6	9:17	9:37	0.20 ML OF ICV SPIKE													
Reagent Lot # (Refer to Individual SOP for amounts added)																							
Sulfamic Acid	VENDOR-8715					Spike Solution		GNSTD-34581-CN-2															
Conc. H2SO4	VENDOR-14810					ICV Stock Solution		GNSTD-34582-CN-2															
NaOH	RGT-41236-CN					0.25N NAOH		RGT-41375-CN															
MgCl2.6H2O	RGT-41169-CN					N/A																	
Bismuth Nitrate	N/A					N/A																	
Comment:																							

QC Review

Date

Author: chemistry

Date : 7/25/2014

Original Run Filename: OM_7-25-2014_12-37-19PM.OMN Created: 7/25/2014 12:37:19 PM

Original Run Author's Signature: [chemistry]

Current Run Filename: OM_7-25-2014_12-37-19PM.OMN Last Modified: 7/25/2014 1:21:40 PM

Current Run Author's Signature: [chemistry]

Description: Default New Run

Sample	Rep.	Channel 1 Cn (mg/L)	MDF
StdA0.50	1	0.500	
StdB0.30	1	0.300	
StdC0.20	1	0.200	
StdD0.10	1	0.100	
StdE0.030	1	0.0300	
StdF0.010	1	0.0100	
StdG0.00	1	0.00	
ICV	1	0.197	
Calibration: Table/Fig.: 1			
ICB	1	-5.01e-3	
CCV	1	0.296	
CCB	1	-4.27e-3	
GP17921-MB1	1	-3.94e-3	
GP17921-B1	1	0.101	
GP17921-B2	1	0.199	
GP17921-S1	1	0.991	
GP17921-D1	1	0.900	
MC32345-5	1	0.897	
MC32345-1	1	1.95	
MC32345-2	1	2.01	
MC32345-6	1	0.604	
MC32345-7	1	0.403	
CCV	1	0.297	
CCB	1	-5.72e-3	
MC32345-8	1	0.845	
MC32345-9	1	5.00	
MC32345-11	1	2.00	
GP17921-S1	1	0.119	10.00
GP17921-D1	1	0.104	10.00
MC32345-5	1	0.103	10.00
MC32345-1	1	0.119	20.00
MC32345-2	1	0.122	20.00
MC32345-6	1	0.335	2.00
MC32345-8	1	0.165	5.00
CCV	1	0.306	
CCB	1	-5.90e-3	
MC32345-9	1	0.211	40.00
MC32345-11	1	0.104	20.00
CCV	1	0.304	
CCB	1	-5.48e-3	

DNR offscale

7-25-14 (M)

DNR offscale

7-25-14 (M)

Table : 1 (Cn)

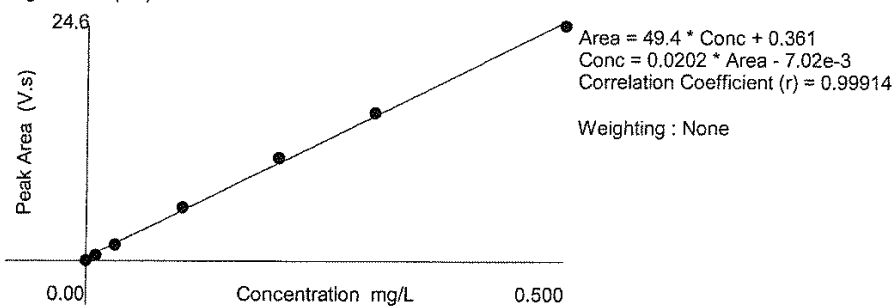
	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	0.500	1	24.6	1.31	0.0	1.8	0.490	7/25/2014	12:38:14 PM
2	0.300	1	15.5	0.819	0.0	-2.1	0.306	7/25/2014	12:39:19 PM
3	0.200	1	10.8	0.572	0.0	-5.1	0.211	7/25/2014	12:40:23 PM
4	0.100	1	5.61	0.298	0.0	-5.9	0.106	7/25/2014	12:41:28 PM
5	0.0300	1	1.71	0.0906	0.0	7.3	0.0275	7/25/2014	12:42:33 PM
6	0.0100	1	0.587	0.0311	0.0	31.3	4.85e-3	7/25/2014	12:43:37 PM
7	0.00	1	0.0567	3.03e-3			-5.87e-3	7/25/2014	12:44:42 PM

J 7/25/14

Author: chemistry

Date : 7/25/2014

Figure : 1 (Cn)

11.1
11

J 7/25/14

- 2 -



08/01/14

Technical Report for

WSP Environmental & Energy

Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY
4255-6

Accutest Job Number: MC32373

Sampling Dates: 07/23/14 - 07/24/14

Report to:

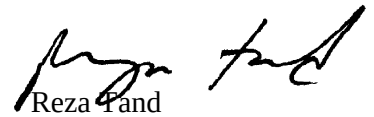
WSP Environmental & Energy
11190 Sunrise Valley Dr
Reston, VA 20191
Lisa.bryda@wspgroup.com

ATTN: Lisa Bryda

Total number of pages in report: **329**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.


Reza Fand
Lab Director

Client Service contact: Frank DAgostino 508-481-6200

Certifications: MA (M-MA136, SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

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Test results relate only to samples analyzed.

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Sample Summary

WSP Environmental & Energy

Job No: MC32373

Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY
Project No: 4255-6

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
MC32373-1	07/24/14	09:30 MC	07/25/14	AQ	Ground Water	LBA-MW-30
MC32373-2	07/24/14	10:30 MC	07/25/14	AQ	Ground Water	LBA-BLDG18-SEEP 1
MC32373-4	07/24/14	00:00 MC	07/25/14	AQ	Trip Blank Water	TRIP BLANK
MC32373-5	07/23/14	15:10 MC	07/25/14	AQ	Ground Water	LBA-MW-42S
MC32373-6	07/24/14	11:05 MC	07/25/14	AQ	Ground Water	LBA-MW-14
MC32373-7	07/23/14	15:40 MC	07/25/14	AQ	Ground Water	LBA-MW-16
MC32373-8	07/24/14	11:20 MC	07/25/14	AQ	Equipment Blank	LBA-EB072414 BLADDER

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: WSP Environmental & Energy

Job No MC32373

Site: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca,

Report Date 8/1/2014 1:04:39 PM

6 Sample(s), 1 Trip Blank(s) were collected on between 07/23/2014 and 07/24/2014 and were received at Accutest on 07/25/2014 properly preserved, at 2.8 Deg. C and intact. These Samples received an Accutest job number of MC32373. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Sample Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260C

Matrix AQ

Batch ID: MSN3307

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC32218-2MS, MC32218-2MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for 1,1,1-Trichloroethane, Carbon disulfide, Carbon tetrachloride, Freon 113, Methylcyclohexane, Trichlorofluoromethane are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- Matrix Spike Duplicate Recovery(s) for 1,2,4-Trichlorobenzene, Carbon disulfide, Carbon tetrachloride, Freon 113, Methylcyclohexane, Trichlorofluoromethane are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.

Matrix AQ

Batch ID: MSN3308

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC32252-11MS, MC32252-11MSD were used as the QC samples indicated.
- MSN3308-BS Recovery(s) for Carbon disulfide, Cyclohexane, Freon 113, Methylcyclohexane are outside control limits. Associated samples are non-detect for this compound.
- MSN3308-BS Recovery(s) for 1,2,4-Trichlorobenzene, Carbon tetrachloride, Trichlorofluoromethane are outside control limits. Blank Spike meets program technical requirements.
- Matrix Spike Recovery(s) for 1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethene, 1,2,4-Trichlorobenzene, 1,2-Dibromo-3-chloropropane, 1,2-Dibromoethane, 1,2-Dichlorobenzene, 1,2-Dichloroethane, 1,2-Dichloropropane, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 2-Butanone (MEK), 2-Hexanone, 4-Methyl-2-pentanone (MIBK), Acetone, Benzene, Bromodichloromethane, Bromoform, Bromomethane, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroethane, Chloroform, Chloromethane, cis-1,2-Dichloroethene, cis-1,3-Dichloropropene, Cyclohexane, Dibromochloromethane, Dichlorodifluoromethane, Ethylbenzene, Freon 113, Isopropylbenzene, Methyl Tert Butyl Ether, Methylene chloride, Styrene, Tetrachloroethene, Toluene, trans-1,2-Dichloroethene, trans-1,3-Dichloropropene, Trichloroethene, Trichlorofluoromethane, Vinyl chloride, Xylene (total) are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- Matrix Spike Duplicate Recovery(s) for 1,1,1-Trichloroethane, 1,2,4-Trichlorobenzene, 2-Butanone (MEK), Carbon disulfide, Carbon tetrachloride, Tetrachloroethene, Trichlorofluoromethane, Vinyl chloride, Freon 113 are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- RPD(s) for MSD for Freon 113 are outside control limits for sample MC32252-11MSD. High RPD due to possible matrix interference and/or sample non-homogeneity.
- MC32252-11MS/MSD for Methylcyclohexane: Outside control limits. Associated samples are non-detect for this compound.

Metals By Method SW846 6010C

Matrix AQ

Batch ID: MP23411

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC32361-3MS, MC32361-3MSD, MC32361-3SDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Barium are outside control limits for sample MP23411-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Wet Chemistry By Method SW846 9012

Matrix AQ

Batch ID: GP17954

- All samples were distilled within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC32373-6DUP, MC32373-6MS were used as the QC samples for Cyanide.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report (MC32373).

Summary of Hits

Page 1 of 1

Job Number: MC32373
Account: WSP Environmental & Energy
Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY
Collected: 07/23/14 thru 07/24/14



Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

MC32373-1 LBA-MW-30

Barium	3040	50	2.0	ug/l	SW846 6010C

MC32373-2 LBA-BLDG18-SEEP 1

No hits reported in this sample.

MC32373-4 TRIP BLANK

No hits reported in this sample.

MC32373-5 LBA-MW-42S

Barium	5210	50	2.0	ug/l	SW846 6010C

MC32373-6 LBA-MW-14

Cyanide	0.31	0.010		mg/l	SW846 9012

MC32373-7 LBA-MW-16

Cyanide	0.58	0.020		mg/l	SW846 9012

MC32373-8 LBA-EB072414 BLADDER

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	LBA-MW-30	Date Sampled:	07/24/14
Lab Sample ID:	MC32373-1	Date Received:	07/25/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Barium	3040	50	2.0	ug/l	1	07/28/14	07/30/14 EAL	SW846 6010C ¹	SW846 3010A ²

(1) Instrument QC Batch: MA17395
(2) Prep QC Batch: MP23411

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Accutest Laboratories

Report of Analysis

Page 1 of 2

Client Sample ID:	LBA-BLDG18-SEEP 1	Date Sampled:	07/24/14
Lab Sample ID:	MC32373-2	Date Received:	07/25/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N89209.D	1	07/31/14	JB	n/a	n/a	MSN3308
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.9	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.87	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	LBA-BLDG18-SEEP 1	Date Sampled:	07/24/14
Lab Sample ID:	MC32373-2	Date Received:	07/25/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY		

VOA TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		70-130%
2037-26-5	Toluene-D8	94%		70-130%
460-00-4	4-Bromofluorobenzene	101%		70-130%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Page 1 of 2

Client Sample ID:	TRIP BLANK	Date Sampled:	07/24/14
Lab Sample ID:	MC32373-4	Date Received:	07/25/14
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	N89182.D	1	07/30/14	KD	n/a	n/a	MSN3307
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.9	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.87	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK	Date Sampled:	07/24/14
Lab Sample ID:	MC32373-4	Date Received:	07/25/14
Matrix:	AQ - Trip Blank Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY		

VOA TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	87%		70-130%
2037-26-5	Toluene-D8	94%		70-130%
460-00-4	4-Bromofluorobenzene	104%		70-130%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	LBA-MW-42S	Date Sampled:	07/23/14
Lab Sample ID:	MC32373-5	Date Received:	07/25/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Barium	5210	50	2.0	ug/l	1	07/28/14	07/30/14 EAL	SW846 6010C ¹	SW846 3010A ²

(1) Instrument QC Batch: MA17395
(2) Prep QC Batch: MP23411

RL = Reporting Limit
MDL = Method Detection Limit
U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

4.4
4

Report of Analysis

Client Sample ID:	LBA-MW-14	Date Sampled:	07/24/14
Lab Sample ID:	MC32373-6	Date Received:	07/25/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	0.31	0.010	mg/l	1	07/31/14 11:47	MA	SW846 9012

RL = Reporting Limit

4.5
4

Report of Analysis

Client Sample ID:	LBA-MW-16	Date Sampled:	07/23/14
Lab Sample ID:	MC32373-7	Date Received:	07/25/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	0.58	0.020	mg/l	2	07/31/14 11:58	MA	SW846 9012

RL = Reporting Limit

4.6
4

Report of Analysis

Client Sample ID:	LBA-EB072414 BLADDER	Date Sampled:	07/24/14
Lab Sample ID:	MC32373-8	Date Received:	07/25/14
Matrix:	AQ - Equipment Blank	Percent Solids:	n/a
Project:	Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Barium	2.0 U	50	2.0	ug/l	1	07/28/14	07/30/14 EAL	SW846 6010C ¹	SW846 3010A ²

(1) Instrument QC Batch: MA17395
(2) Prep QC Batch: MP23411

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

4.7
4

Report of Analysis

Client Sample ID:	LBA-EB072414 BLADDER	Date Sampled:	07/24/14
Lab Sample ID:	MC32373-8	Date Received:	07/25/14
Matrix:	AQ - Equipment Blank	Percent Solids:	n/a
Project:	Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	< 0.010	0.010	mg/l	1	07/31/14 11:49	MA	SW846 9012

RL = Reporting Limit

4.7
4

Misc. Forms

5

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

Page 1 of 1

5.1

Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC32373 **Client:** WSP **Immediate Client Services Action Required:** No
Date / Time Received: 7/25/2014 **Delivery Method:** **Client Service Action Required at Login:** No
Project: EPT ITHACA **No. Coolers:** 1 **Airbill #'s:**

Cooler Security **Y or N** **Y or N**
1. Custody Seals Present: ☒ ☐ 3. COC Present: ☒ ☐
2. Custody Seals Intact: ☒ ☐ 4. Smpl Dates/Time OK ☒ ☐

Cooler Temperature **Y or N**
1. Temp criteria achieved: ☒ ☐
2. Cooler temp verification: Infrared gun
3. Cooler media: Ice (bag)

Quality Control Preservation **Y or N** **N/A**
1. Trip Blank present / cooler: ☒ ☐ ☐
2. Trip Blank listed on COC: ☒ ☐ ☐
3. Samples preserved properly: ☒ ☐
4. VOCs headspace free: ☒ ☐ ☐

Sample Integrity - Documentation **Y or N**
1. Sample labels present on bottles: ☒ ☐
2. Container labeling complete: ☒ ☐
3. Sample container label / COC agree: ☒ ☐

Sample Integrity - Condition **Y or N**
1. Sample recvd within HT: ☒ ☐
2. All containers accounted for: ☒ ☐
3. Condition of sample: Intact

Sample Integrity - Instructions **Y or N** **N/A**
1. Analysis requested is clear: ☒ ☐
2. Bottles received for unspecified tests: ☐ ☒
3. Sufficient volume recvd for analysis: ☒ ☐
4. Compositing instructions clear: ☐ ☐ ☒
5. Filtering instructions clear: ☐ ☐ ☒

Comments

Internal Sample Tracking Chronicle

WSP Environmental & Energy

Job No: MC32373

Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Project No: 4255-6

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC32373-1 Collected: 24-JUL-14 09:30 By: MC Received: 25-JUL-14 By: LBA-MW-30						
MC32373-1	SW846 6010C	30-JUL-14 16:56	EAL	28-JUL-14	KR	BA
MC32373-2 Collected: 24-JUL-14 10:30 By: MC Received: 25-JUL-14 By: LBA-BLDG18-SEEP 1						
MC32373-2	SW846 8260C	31-JUL-14 14:01	JB			V8260TCL42
MC32373-4 Collected: 24-JUL-14 00:00 By: MC Received: 25-JUL-14 By: TRIP BLANK						
MC32373-4	SW846 8260C	30-JUL-14 17:52	KD			V8260TCL42
MC32373-5 Collected: 23-JUL-14 15:10 By: MC Received: 25-JUL-14 By: LBA-MW-42S						
MC32373-5	SW846 6010C	30-JUL-14 17:02	EAL	28-JUL-14	KR	BA
MC32373-6 Collected: 24-JUL-14 11:05 By: MC Received: 25-JUL-14 By: LBA-MW-14						
MC32373-6	SW846 9012	31-JUL-14 11:47	MA	31-JUL-14	MA	CN
MC32373-7 Collected: 23-JUL-14 15:40 By: MC Received: 25-JUL-14 By: LBA-MW-16						
MC32373-7	SW846 9012	31-JUL-14 11:58	MA	31-JUL-14	MA	CN
MC32373-8 Collected: 24-JUL-14 11:20 By: MC Received: 25-JUL-14 By: LBA-EB072414 BLADDER						
MC32373-8	SW846 6010C	30-JUL-14 17:08	EAL	28-JUL-14	KR	BA
MC32373-8	SW846 9012	31-JUL-14 11:49	MA	31-JUL-14	MA	CN

Accutest Internal Chain of Custody

Page 1 of 1

Job Number: MC32373
Account: WSPVAR WSP Environmental & Energy
Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY
Received: 07/25/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC32373-1.1	Walk In Ref #5	Kerry Ryan	07/28/14 08:29	Retrieve from Storage
MC32373-1.1	Kerry Ryan	Walk In Ref #5	07/28/14 10:38	Return to Storage
MC32373-2.1	VOC Ref #5	Krysten Dufort	07/30/14 16:16	Retrieve from Storage
MC32373-2.1	Krysten Dufort	GCMSN	07/30/14 16:16	Load on Instrument
MC32373-2.1	GCMSN	Jaclyn Bergeron	07/31/14 11:51	Unload from Instrument
MC32373-2.1	Jaclyn Bergeron	VOC Ref #5	07/31/14 11:52	Return to Storage
MC32373-2.2	VOC Ref #5	Jaclyn Bergeron	07/31/14 11:52	Retrieve from Storage
MC32373-2.2	Jaclyn Bergeron	GCMSN	07/31/14 11:53	Load on Instrument
MC32373-2.2	GCMSN	Jaclyn Bergeron	08/01/14 12:50	Unload from Instrument
MC32373-2.2	Jaclyn Bergeron	VOC Ref #5	08/01/14 12:50	Return to Storage
MC32373-4.1	VOC Ref #5	Krysten Dufort	07/30/14 16:16	Retrieve from Storage
MC32373-4.1	Krysten Dufort	GCMSN	07/30/14 16:16	Load on Instrument
MC32373-4.1	GCMSN	Jaclyn Bergeron	07/31/14 11:51	Unload from Instrument
MC32373-4.1	Jaclyn Bergeron	VOC Ref #5	07/31/14 11:52	Return to Storage
MC32373-5.1	Walk In Ref #5	Kerry Ryan	07/28/14 08:29	Retrieve from Storage
MC32373-5.1	Kerry Ryan	Walk In Ref #5	07/28/14 10:38	Return to Storage
MC32373-6.1	Walk In Ref #9	Mehdi Abdolrahim	07/31/14 08:37	Retrieve from Storage
MC32373-6.1	Mehdi Abdolrahim	Walk In Ref #9	07/31/14 09:35	Return to Storage
MC32373-7.1	Walk In Ref #9	Mehdi Abdolrahim	07/31/14 08:37	Retrieve from Storage
MC32373-7.1	Mehdi Abdolrahim	Walk In Ref #9	07/31/14 09:35	Return to Storage
MC32373-8.1	Walk In Ref #9	Mehdi Abdolrahim	07/31/14 08:37	Retrieve from Storage
MC32373-8.1	Mehdi Abdolrahim	Walk In Ref #9	07/31/14 09:35	Return to Storage
MC32373-8.2	Walk In Ref #5	Kerry Ryan	07/28/14 08:29	Retrieve from Storage
MC32373-8.2	Kerry Ryan	Walk In Ref #5	07/28/14 10:38	Return to Storage

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Page 1 of 2

Job Number: MC32373

Account: WSPVAR WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN3307-MB	N89174.D	1	07/30/14	KD	n/a	n/a	MSN3307

The QC reported here applies to the following samples:

Method: SW846 8260C

MC32373-4

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.9	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.87	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	

Method Blank Summary

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Job Number: MC32373

Account: WSPVAR WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN3307-MB	N89174.D	1	07/30/14	KD	n/a	n/a	MSN3307

The QC reported here applies to the following samples:

Method: SW846 8260C

MC32373-4

CAS No.	Compound	Result	RL	MDL	Units	Q
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	82% 70-130%
2037-26-5	Toluene-D8	89% 70-130%
460-00-4	4-Bromofluorobenzene	98% 70-130%

Method Blank Summary

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Job Number: MC32373

Account: WSPVAR WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN3308-MB	N89206.D	1	07/31/14	JB	n/a	n/a	MSN3308

The QC reported here applies to the following samples:

Method: SW846 8260C

MC32373-2

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.9	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.87	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	

Method Blank Summary

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Job Number: MC32373

Account: WSPVAR WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN3308-MB	N89206.D	1	07/31/14	JB	n/a	n/a	MSN3308

The QC reported here applies to the following samples:

Method: SW846 8260C

MC32373-2

CAS No.	Compound	Result	RL	MDL	Units	Q
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	88% 70-130%
2037-26-5	Toluene-D8	94% 70-130%
460-00-4	4-Bromofluorobenzene	96% 70-130%

Blank Spike Summary**Job Number:** MC32373**Account:** WSPVAR WSP Environmental & Energy**Project:** Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN3307-BS	N89172.D	1	07/30/14	KD	n/a	n/a	MSN3307

The QC reported here applies to the following samples:**Method:** SW846 8260C

MC32373-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	50.3	101	70-130
71-43-2	Benzene	50	52.2	104	70-130
75-27-4	Bromodichloromethane	50	53.5	107	70-130
75-25-2	Bromoform	50	51.4	103	70-130
74-83-9	Bromomethane	50	53.7	107	70-130
78-93-3	2-Butanone (MEK)	50	57.3	115	70-130
75-15-0	Carbon disulfide	50	60.0	120	70-130
56-23-5	Carbon tetrachloride	50	56.3	113	70-130
108-90-7	Chlorobenzene	50	51.6	103	70-130
75-00-3	Chloroethane	50	43.9	88	70-130
67-66-3	Chloroform	50	54.1	108	70-130
74-87-3	Chloromethane	50	48.7	97	70-130
110-82-7	Cyclohexane	50	58.6	117	71-145
96-12-8	1,2-Dibromo-3-chloropropane	50	51.9	104	70-130
124-48-1	Dibromochloromethane	50	52.4	105	70-130
106-93-4	1,2-Dibromoethane	50	54.1	108	70-130
95-50-1	1,2-Dichlorobenzene	50	53.9	108	70-130
541-73-1	1,3-Dichlorobenzene	50	49.8	100	70-130
106-46-7	1,4-Dichlorobenzene	50	51.0	102	70-130
75-71-8	Dichlorodifluoromethane	50	44.6	89	70-130
75-34-3	1,1-Dichloroethane	50	51.4	103	70-130
107-06-2	1,2-Dichloroethane	50	53.0	106	70-130
75-35-4	1,1-Dichloroethene	50	45.5	91	70-130
156-59-2	cis-1,2-Dichloroethene	50	52.3	105	70-130
156-60-5	trans-1,2-Dichloroethene	50	52.7	105	70-130
78-87-5	1,2-Dichloropropane	50	57.4	115	70-130
10061-01-5	cis-1,3-Dichloropropene	50	53.4	107	70-130
10061-02-6	trans-1,3-Dichloropropene	50	49.3	99	70-130
100-41-4	Ethylbenzene	50	51.9	104	70-130
76-13-1	Freon 113	50	57.0	114	70-130
591-78-6	2-Hexanone	50	55.9	112	70-130
98-82-8	Isopropylbenzene	50	46.6	93	70-130
79-20-9	Methyl Acetate	50	53.8	108	40-137
108-87-2	Methylcyclohexane	50	58.7	117	74-143
1634-04-4	Methyl Tert Butyl Ether	50	57.4	115	70-130
108-10-1	4-Methyl-2-pentanone (MIBK)	50	52.5	105	70-130

* = Outside of Control Limits.

Blank Spike Summary

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Job Number: MC32373

Account: WSPVAR WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN3307-BS	N89172.D	1	07/30/14	KD	n/a	n/a	MSN3307

The QC reported here applies to the following samples:

Method: SW846 8260C

MC32373-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
75-09-2	Methylene chloride	50	49.4	99	70-130
100-42-5	Styrene	50	50.8	102	70-130
79-34-5	1,1,2,2-Tetrachloroethane	50	50.9	102	70-130
127-18-4	Tetrachloroethene	50	56.1	112	70-130
108-88-3	Toluene	50	52.3	105	70-130
120-82-1	1,2,4-Trichlorobenzene	50	60.4	121	70-130
71-55-6	1,1,1-Trichloroethane	50	57.1	114	70-130
79-00-5	1,1,2-Trichloroethane	50	54.0	108	70-130
79-01-6	Trichloroethene	50	50.0	100	70-130
75-69-4	Trichlorofluoromethane	50	54.4	109	70-130
75-01-4	Vinyl chloride	50	50.9	102	70-130
1330-20-7	Xylene (total)	150	155	103	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	82%	70-130%
2037-26-5	Toluene-D8	89%	70-130%
460-00-4	4-Bromofluorobenzene	78%	70-130%

* = Outside of Control Limits.

Blank Spike Summary**Job Number:** MC32373**Account:** WSPVAR WSP Environmental & Energy**Project:** Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN3308-BS	N89203.D	1	07/31/14	JB	n/a	n/a	MSN3308

The QC reported here applies to the following samples:**Method:** SW846 8260C

MC32373-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	50	44.4	89	70-130
71-43-2	Benzene	50	56.0	112	70-130
75-27-4	Bromodichloromethane	50	57.2	114	70-130
75-25-2	Bromoform	50	52.6	105	70-130
74-83-9	Bromomethane	50	55.9	112	70-130
78-93-3	2-Butanone (MEK)	50	58.1	116	70-130
75-15-0	Carbon disulfide	50	69.3	139* a	70-130
56-23-5	Carbon tetrachloride	50	68.9	138* b	70-130
108-90-7	Chlorobenzene	50	55.0	110	70-130
75-00-3	Chloroethane	50	49.9	100	70-130
67-66-3	Chloroform	50	58.5	117	70-130
74-87-3	Chloromethane	50	53.8	108	70-130
110-82-7	Cyclohexane	50	73.0	146* a	71-145
96-12-8	1,2-Dibromo-3-chloropropane	50	49.8	100	70-130
124-48-1	Dibromochloromethane	50	55.0	110	70-130
106-93-4	1,2-Dibromoethane	50	55.3	111	70-130
95-50-1	1,2-Dichlorobenzene	50	56.2	112	70-130
541-73-1	1,3-Dichlorobenzene	50	53.2	106	70-130
106-46-7	1,4-Dichlorobenzene	50	54.5	109	70-130
75-71-8	Dichlorodifluoromethane	50	58.3	117	70-130
75-34-3	1,1-Dichloroethane	50	55.0	110	70-130
107-06-2	1,2-Dichloroethane	50	54.1	108	70-130
75-35-4	1,1-Dichloroethene	50	56.6	113	70-130
156-59-2	cis-1,2-Dichloroethene	50	56.0	112	70-130
156-60-5	trans-1,2-Dichloroethene	50	58.8	118	70-130
78-87-5	1,2-Dichloropropane	50	60.7	121	70-130
10061-01-5	cis-1,3-Dichloropropene	50	56.7	113	70-130
10061-02-6	trans-1,3-Dichloropropene	50	53.6	107	70-130
100-41-4	Ethylbenzene	50	56.4	113	70-130
76-13-1	Freon 113	50	86.2	172* a	70-130
591-78-6	2-Hexanone	50	53.0	106	70-130
98-82-8	Isopropylbenzene	50	52.1	104	70-130
79-20-9	Methyl Acetate	50	50.4	101	40-137
108-87-2	Methylcyclohexane	50	72.6	145* a	74-143
1634-04-4	Methyl Tert Butyl Ether	50	56.8	114	70-130
108-10-1	4-Methyl-2-pentanone (MIBK)	50	50.0	100	70-130

* = Outside of Control Limits.

Blank Spike Summary

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Job Number: MC32373

Account: WSPVAR WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSN3308-BS	N89203.D	1	07/31/14	JB	n/a	n/a	MSN3308

The QC reported here applies to the following samples:

Method: SW846 8260C

MC32373-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
75-09-2	Methylene chloride	50	53.9	108	70-130
100-42-5	Styrene	50	54.8	110	70-130
79-34-5	1,1,2,2-Tetrachloroethane	50	50.5	101	70-130
127-18-4	Tetrachloroethene	50	63.4	127	70-130
108-88-3	Toluene	50	56.1	112	70-130
120-82-1	1,2,4-Trichlorobenzene	50	66.6	133* b	70-130
71-55-6	1,1,1-Trichloroethane	50	64.0	128	70-130
79-00-5	1,1,2-Trichloroethane	50	57.4	115	70-130
79-01-6	Trichloroethene	50	54.5	109	70-130
75-69-4	Trichlorofluoromethane	50	73.6	147* b	70-130
75-01-4	Vinyl chloride	50	61.5	123	70-130
1330-20-7	Xylene (total)	150	167	111	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	87%	70-130%
2037-26-5	Toluene-D8	95%	70-130%
460-00-4	4-Bromofluorobenzene	84%	70-130%

(a) Outside control limits. Associated samples are non-detect for this compound.

(b) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

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Job Number: MC32373

Account: WSPVAR WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC32218-2MS	N89193.D	1	07/30/14	KD	n/a	n/a	MSN3307
MC32218-2MSD	N89194.D	1	07/30/14	KD	n/a	n/a	MSN3307
MC32218-2	N89183.D	1	07/30/14	KD	n/a	n/a	MSN3307

The QC reported here applies to the following samples:

Method: SW846 8260C

MC32373-4

CAS No.	Compound	MC32218-2 ug/l	Spike Q	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND	50	55.8	112	50	61.3	123	9	70-130/30
71-43-2	Benzene	1.9	50	60.9	118	50	59.2	115	3	70-130/30
75-27-4	Bromodichloromethane	ND	50	60.3	121	50	58.5	117	3	70-130/30
75-25-2	Bromoform	ND	50	52.9	106	50	53.6	107	1	70-130/30
74-83-9	Bromomethane	ND	50	58.1	116	50	56.7	113	2	70-130/30
78-93-3	2-Butanone (MEK)	ND	50	63.2	126	50	60.8	122	4	70-130/30
75-15-0	Carbon disulfide	ND	50	70.8	142* a	50	68.8	138* a	3	70-130/30
56-23-5	Carbon tetrachloride	ND	50	68.1	136* a	50	67.0	134* a	2	70-130/30
108-90-7	Chlorobenzene	ND	50	55.8	112	50	56.6	113	1	70-130/30
75-00-3	Chloroethane	ND	50	52.9	106	50	49.2	98	7	70-130/30
67-66-3	Chloroform	ND	50	62.8	126	50	61.1	122	3	70-130/30
74-87-3	Chloromethane	ND	50	62.9	126	50	60.3	121	4	70-130/30
110-82-7	Cyclohexane	26.7	50	91.5	130	50	90.1	127	2	60-160/30
96-12-8	1,2-Dibromo-3-chloropropane	ND	50	51.4	103	50	52.3	105	2	70-130/30
124-48-1	Dibromochloromethane	ND	50	55.1	110	50	56.4	113	2	70-130/30
106-93-4	1,2-Dibromoethane	ND	50	55.6	111	50	56.8	114	2	70-130/30
95-50-1	1,2-Dichlorobenzene	ND	50	58.1	116	50	57.9	116	0	70-130/30
541-73-1	1,3-Dichlorobenzene	ND	50	54.6	109	50	54.7	109	0	70-130/30
106-46-7	1,4-Dichlorobenzene	ND	50	54.9	110	50	55.4	111	1	70-130/30
75-71-8	Dichlorodifluoromethane	ND	50	56.0	112	50	54.0	108	4	70-130/30
75-34-3	1,1-Dichloroethane	ND	50	59.2	118	50	57.5	115	3	70-130/30
107-06-2	1,2-Dichloroethane	ND	50	59.7	119	50	55.8	112	7	70-130/30
75-35-4	1,1-Dichloroethene	ND	50	55.2	110	50	55.5	111	1	70-130/30
156-59-2	cis-1,2-Dichloroethene	ND	50	60.8	122	50	57.8	116	5	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND	50	62.9	126	50	60.2	120	4	70-130/30
78-87-5	1,2-Dichloropropane	ND	50	63.8	128	50	61.4	123	4	70-130/30
10061-01-5	cis-1,3-Dichloropropene	ND	50	58.4	117	50	54.8	110	6	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND	50	54.5	109	50	49.7	99	9	70-130/30
100-41-4	Ethylbenzene	ND	50	56.7	113	50	57.4	115	1	70-130/30
76-13-1	Freon 113	ND	50	76.3	153* a	50	77.0	154* a	1	70-130/30
591-78-6	2-Hexanone	ND	50	55.9	112	50	59.4	119	6	70-130/30
98-82-8	Isopropylbenzene	ND	50	53.0	106	50	52.7	105	1	70-130/30
79-20-9	Methyl Acetate	ND	50	58.0	116	50	51.5	103	12	34-145/30
108-87-2	Methylcyclohexane	ND	50	69.6	139* a	50	68.7	137* a	1	70-130/30
1634-04-4	Methyl Tert Butyl Ether	6.2	50	63.0	114	50	52.7	93	18	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	50	57.1	114	50	53.8	108	6	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 2 of 2

Job Number: MC32373

Account: WSPVAR WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC32218-2MS	N89193.D	1	07/30/14	KD	n/a	n/a	MSN3307
MC32218-2MSD	N89194.D	1	07/30/14	KD	n/a	n/a	MSN3307
MC32218-2	N89183.D	1	07/30/14	KD	n/a	n/a	MSN3307

The QC reported here applies to the following samples:

Method: SW846 8260C

MC32373-4

CAS No.	Compound	MC32218-2 ug/l	Spike Q	ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
75-09-2	Methylene chloride	ND		50	59.5	119	50	56.2	112	6	70-130/30
100-42-5	Styrene	ND		50	55.0	110	50	55.7	111	1	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	52.4	105	50	52.5	105	0	70-130/30
127-18-4	Tetrachloroethene	ND		50	60.6	121	50	63.8	128	5	70-130/30
108-88-3	Toluene	ND		50	59.2	118	50	57.1	114	4	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		50	62.5	125	50	65.9	132* a	5	70-130/30
71-55-6	1,1,1-Trichloroethane	ND		50	65.9	132* a	50	64.1	128	3	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		50	60.0	120	50	57.7	115	4	70-130/30
79-01-6	Trichloroethene	ND		50	56.3	113	50	54.1	108	4	70-130/30
75-69-4	Trichlorofluoromethane	ND		50	72.0	144* a	50	69.7	139* a	3	70-130/30
75-01-4	Vinyl chloride	ND		50	61.2	122	50	59.8	120	2	70-130/30
1330-20-7	Xylene (total)	0.86	J	150	169	112	150	170	113	1	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	MC32218-2	Limits
1868-53-7	Dibromofluoromethane	91%	89%	88%	70-130%
2037-26-5	Toluene-D8	96%	95%	92%	70-130%
460-00-4	4-Bromofluorobenzene	82%	84%	98%	70-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 2

Job Number: MC32373

Account: WSPVAR WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC32252-11MS	N89226.D	5	07/31/14	JB	n/a	n/a	MSN3308
MC32252-11MSD	N89227.D	5	07/31/14	JB	n/a	n/a	MSN3308
MC32252-11	N89210.D	1	07/31/14	JB	n/a	n/a	MSN3308

The QC reported here applies to the following samples:

Method: SW846 8260C

MC32373-2

CAS No.	Compound	MC32252-11 Spike		MS	MS	Spike	MSD	MSD	RPD	Limits
		ug/l	Q ug/l	ug/l	%	ug/l	ug/l	%		Rec/RPD
67-64-1	Acetone	ND	250	331	132* a	250	308	123	7	70-130/30
71-43-2	Benzene	4.8	250	367	145* a	250	296	116	21	70-130/30
75-27-4	Bromodichloromethane	ND	250	372	149* a	250	306	122	19	70-130/30
75-25-2	Bromoform	ND	250	347	139* a	250	287	115	19	70-130/30
74-83-9	Bromomethane	ND	250	363	145* a	250	298	119	20	70-130/30
78-93-3	2-Butanone (MEK)	ND	250	377	151* a	250	337	135* a	11	70-130/30
75-15-0	Carbon disulfide	ND	250	452	181* a	250	367	147* a	21	70-130/30
56-23-5	Carbon tetrachloride	ND	250	431	172* a	250	360	144* a	18	70-130/30
108-90-7	Chlorobenzene	ND	250	357	143* a	250	292	117	20	70-130/30
75-00-3	Chloroethane	ND	250	337	135* a	250	273	109	21	70-130/30
67-66-3	Chloroform	ND	250	390	156* a	250	315	126	21	70-130/30
74-87-3	Chloromethane	ND	250	361	144* a	250	283	113	24	70-130/30
110-82-7	Cyclohexane	ND	250	458	183* a	250	378	151	19	60-160/30
96-12-8	1,2-Dibromo-3-chloropropane	ND	250	340	136* a	250	282	113	19	70-130/30
124-48-1	Dibromochloromethane	ND	250	349	140* a	250	292	117	18	70-130/30
106-93-4	1,2-Dibromoethane	ND	250	358	143* a	250	298	119	18	70-130/30
95-50-1	1,2-Dichlorobenzene	ND	250	368	147* a	250	303	121	19	70-130/30
541-73-1	1,3-Dichlorobenzene	ND	250	341	136* a	250	287	115	17	70-130/30
106-46-7	1,4-Dichlorobenzene	ND	250	345	138* a	250	287	115	18	70-130/30
75-71-8	Dichlorodifluoromethane	ND	250	387	155* a	250	323	129	18	70-130/30
75-34-3	1,1-Dichloroethane	ND	250	367	147* a	250	294	118	22	70-130/30
107-06-2	1,2-Dichloroethane	ND	250	365	146* a	250	295	118	21	70-130/30
75-35-4	1,1-Dichloroethene	ND	250	369	148* a	250	298	119	21	70-130/30
156-59-2	cis-1,2-Dichloroethene	ND	250	381	152* a	250	304	122	22	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND	250	392	157* a	250	313	125	22	70-130/30
78-87-5	1,2-Dichloropropane	ND	250	393	157* a	250	321	128	20	70-130/30
10061-01-5	cis-1,3-Dichloropropene	ND	250	367	147* a	250	298	119	21	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND	250	349	140* a	250	286	114	20	70-130/30
100-41-4	Ethylbenzene	3.4	250	363	144* a	250	297	117	20	70-130/30
76-13-1	Freon 113	ND	250	ND	0* a	250	517	207* a	200* b	70-130/30
591-78-6	2-Hexanone	ND	250	357	143* a	250	296	118	19	70-130/30
98-82-8	Isopropylbenzene	0.60	250	336	134* a	250	275	110	20	70-130/30
79-20-9	Methyl Acetate	ND	250	352	141	250	304	122	15	34-145/30
108-87-2	Methylcyclohexane	ND	250	462	185* c	250	376	150* c	21	70-130/30
1634-04-4	Methyl Tert Butyl Ether	3.9	250	408	162* a	250	303	120	30	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	250	360	144* a	250	295	118	20	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 2 of 2

Job Number: MC32373

Account: WSPVAR WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC32252-11MS	N89226.D	5	07/31/14	JB	n/a	n/a	MSN3308
MC32252-11MSD	N89227.D	5	07/31/14	JB	n/a	n/a	MSN3308
MC32252-11	N89210.D	1	07/31/14	JB	n/a	n/a	MSN3308

The QC reported here applies to the following samples:

Method: SW846 8260C

MC32373-2

CAS No.	Compound	MC32252-11 Spike ug/l	Q	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
75-09-2	Methylene chloride	ND	250	363	145* a	250	293	117	21	70-130/30
100-42-5	Styrene	ND	250	351	140* a	250	288	115	20	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND	250	338	135* a	250	286	114	17	70-130/30
127-18-4	Tetrachloroethene	ND	250	398	159* a	250	329	132* a	19	70-130/30
108-88-3	Toluene	ND	250	374	150* a	250	301	120	22	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND	250	395	158* a	250	345	138* a	14	70-130/30
71-55-6	1,1,1-Trichloroethane	ND	250	414	166* a	250	338	135* a	20	70-130/30
79-00-5	1,1,2-Trichloroethane	ND	250	384	154* a	250	312	125	21	70-130/30
79-01-6	Trichloroethene	ND	250	356	142* a	250	288	115	21	70-130/30
75-69-4	Trichlorofluoromethane	ND	250	471	188* a	250	393	157* a	18	70-130/30
75-01-4	Vinyl chloride	ND	250	397	159* a	250	327	131* a	19	70-130/30
1330-20-7	Xylene (total)	1.1	750	1070	143* a	750	882	117	19	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	MC32252-11 Limits	
1868-53-7	Dibromofluoromethane	90%	90%	88%	70-130%
2037-26-5	Toluene-D8	96%	94%	91%	70-130%
460-00-4	4-Bromofluorobenzene	83%	83%	98%	70-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.

(b) High RPD due to possible matrix interference and/or sample non-homogeneity.

(c) Outside control limits. Associated samples are non-detect for this compound.

* = Outside of Control Limits.

Instrument Performance Check (BFB)

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Job Number: MC32373**Account:** WSPVAR WSP Environmental & Energy**Project:** Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY**Sample:** MSN3306-BFB**Injection Date:** 07/29/14**Lab File ID:** N89149.D**Injection Time:** 19:30**Instrument ID:** GCMSN

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	21235	22.0	Pass
75	30.0 - 60.0% of mass 95	43763	45.4	Pass
95	Base peak, 100% relative abundance	96317	100.0	Pass
96	5.0 - 9.0% of mass 95	6215	6.45	Pass
173	Less than 2.0% of mass 174	276	0.29 (0.41) ^a	Pass
174	50.0 - 150.0% of mass 95	66941	69.5	Pass
175	5.0 - 9.0% of mass 174	4786	4.97 (7.15) ^a	Pass
176	95.0 - 101.0% of mass 174	65000	67.5 (97.1) ^a	Pass
177	5.0 - 9.0% of mass 176	4187	4.35 (6.44) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
MSN3306-IC3306	N89150.D	07/29/14	19:58	00:28	Initial cal 0.5
MSN3306-IC3306	N89151.D	07/29/14	20:25	00:55	Initial cal 1
MSN3306-IC3306	N89152.D	07/29/14	20:53	01:23	Initial cal 2
MSN3306-IC3306	N89153.D	07/29/14	21:20	01:50	Initial cal 5
MSN3306-IC3306	N89154.D	07/29/14	21:48	02:18	Initial cal 10
MSN3306-IC3306	N89155.D	07/29/14	22:15	02:45	Initial cal 25
MSN3306-ICC3306	N89156.D	07/29/14	22:43	03:13	Initial cal 50
MSN3306-IC3306	N89157.D	07/29/14	23:10	03:40	Initial cal 100
MSN3306-IC3306	N89158.D	07/29/14	23:37	04:07	Initial cal 200
MSN3306-IC3306	N89159.D	07/30/14	00:04	04:34	Initial cal 400
MSN3306-ICV3306	N89162.D	07/30/14	01:26	05:56	Initial cal verification 50

Instrument Performance Check (BFB)

Job Number: MC32373

Account: WSPVAR WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Sample: MSN3307-BFB

Injection Date: 07/30/14

Lab File ID: N89172.D

Injection Time: 13:16

Instrument ID: GCMSN

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	19736	21.7	Pass
75	30.0 - 60.0% of mass 95	41368	45.4	Pass
95	Base peak, 100% relative abundance	91084	100.0	Pass
96	5.0 - 9.0% of mass 95	5176	5.68	Pass
173	Less than 2.0% of mass 174	533	0.59 (0.85) ^a	Pass
174	50.0 - 150.0% of mass 95	62767	68.9	Pass
175	5.0 - 9.0% of mass 174	4272	4.69 (6.81) ^a	Pass
176	95.0 - 101.0% of mass 174	61720	67.8 (98.3) ^a	Pass
177	5.0 - 9.0% of mass 176	3944	4.33 (6.39) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
MSN3307-B5	N89172.D	07/30/14	13:16	00:00	Blank Spike
MSN3307-CC3306	N89172.D	07/30/14	13:16	00:00	Continuing cal 50
MSN3307-MB	N89174.D	07/30/14	14:12	00:56	Method Blank
ZZZZZZ	N89175.D	07/30/14	14:39	01:23	(unrelated sample)
ZZZZZZ	N89176.D	07/30/14	15:06	01:50	(unrelated sample)
ZZZZZZ	N89177.D	07/30/14	15:34	02:18	(unrelated sample)
ZZZZZZ	N89178.D	07/30/14	16:01	02:45	(unrelated sample)
ZZZZZZ	N89179.D	07/30/14	16:29	03:13	(unrelated sample)
ZZZZZZ	N89180.D	07/30/14	16:56	03:40	(unrelated sample)
ZZZZZZ	N89181.D	07/30/14	17:24	04:08	(unrelated sample)
MC32373-4	N89182.D	07/30/14	17:52	04:36	TRIP BLANK
MC32218-2	N89183.D	07/30/14	18:19	05:03	(used for QC only; not part of job MC32373)
ZZZZZZ	N89184.D	07/30/14	18:48	05:32	(unrelated sample)
ZZZZZZ	N89185.D	07/30/14	19:15	05:59	(unrelated sample)
ZZZZZZ	N89186.D	07/30/14	19:43	06:27	(unrelated sample)
ZZZZZZ	N89187.D	07/30/14	20:12	06:56	(unrelated sample)
ZZZZZZ	N89188.D	07/30/14	20:41	07:25	(unrelated sample)
ZZZZZZ	N89189.D	07/30/14	21:09	07:53	(unrelated sample)
MC32218-2MS	N89193.D	07/30/14	23:02	09:46	Matrix Spike
MC32218-2MSD	N89194.D	07/30/14	23:29	10:13	Matrix Spike Duplicate

Instrument Performance Check (BFB)**Job Number:** MC32373**Account:** WSPVAR WSP Environmental & Energy**Project:** Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY**Sample:** MSN3308-BFB**Injection Date:** 07/31/14**Lab File ID:** N89202.D**Injection Time:** 10:49**Instrument ID:** GCMSN

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	20880	21.2	Pass
75	30.0 - 60.0% of mass 95	44968	45.7	Pass
95	Base peak, 100% relative abundance	98496	100.0	Pass
96	5.0 - 9.0% of mass 95	6768	6.87	Pass
173	Less than 2.0% of mass 174	463	0.47 (0.69) ^a	Pass
174	50.0 - 150.0% of mass 95	66912	67.9	Pass
175	5.0 - 9.0% of mass 174	4668	4.74 (6.98) ^a	Pass
176	95.0 - 101.0% of mass 174	66816	67.8 (99.9) ^a	Pass
177	5.0 - 9.0% of mass 176	4590	4.66 (6.87) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
MSN3308-CC3306	N89202.D	07/31/14	10:49	00:00	Continuing cal 50
MSN3308-BS	N89203.D	07/31/14	11:16	00:27	Blank Spike
MSN3308-MB	N89206.D	07/31/14	12:38	01:49	Method Blank
ZZZZZZ	N89207.D	07/31/14	13:06	02:17	(unrelated sample)
ZZZZZZ	N89208.D	07/31/14	13:33	02:44	(unrelated sample)
MC32373-2	N89209.D	07/31/14	14:01	03:12	LBA-BLDG18-SEEP 1
MC32252-11	N89210.D	07/31/14	14:28	03:39	(used for QC only; not part of job MC32373)
ZZZZZZ	N89211.D	07/31/14	14:55	04:06	(unrelated sample)
ZZZZZZ	N89212.D	07/31/14	15:23	04:34	(unrelated sample)
ZZZZZZ	N89213.D	07/31/14	15:50	05:01	(unrelated sample)
ZZZZZZ	N89214.D	07/31/14	16:17	05:28	(unrelated sample)
ZZZZZZ	N89215.D	07/31/14	16:45	05:56	(unrelated sample)
ZZZZZZ	N89216.D	07/31/14	17:12	06:23	(unrelated sample)
ZZZZZZ	N89217.D	07/31/14	17:40	06:51	(unrelated sample)
ZZZZZZ	N89218.D	07/31/14	18:07	07:18	(unrelated sample)
ZZZZZZ	N89219.D	07/31/14	18:36	07:47	(unrelated sample)
ZZZZZZ	N89220.D	07/31/14	19:03	08:14	(unrelated sample)
ZZZZZZ	N89221.D	07/31/14	19:32	08:43	(unrelated sample)
ZZZZZZ	N89222.D	07/31/14	20:00	09:11	(unrelated sample)
ZZZZZZ	N89223.D	07/31/14	20:29	09:40	(unrelated sample)
ZZZZZZ	N89224.D	07/31/14	20:58	10:09	(unrelated sample)
ZZZZZZ	N89225.D	07/31/14	21:26	10:37	(unrelated sample)
MC32252-11MS	N89226.D	07/31/14	21:55	11:06	Matrix Spike
MC32252-11MSD	N89227.D	07/31/14	22:23	11:34	Matrix Spike Duplicate

Volatile Internal Standard Area Summary

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Job Number: MC32373

Account: WSPVAR WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Check Std: MSN3307-CC3306

Injection Date: 07/30/14

Lab File ID: N89172.D

Injection Time: 13:16

Instrument ID: GCMSN

Method: SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	231223	9.12	357126	9.99	182108	13.24	149529	15.80	84762	6.70
Upper Limit ^a	462446	9.62	714252	10.49	364216	13.74	299058	16.30	169524	7.20
Lower Limit ^b	115612	8.62	178563	9.49	91054	12.74	74765	15.30	42381	6.20

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSN3307-BS	231223	9.12	357126	9.99	182108	13.24	149529	15.80	84762	6.70
MSN3307-MB	184566	9.12	277788	9.99	139317	13.24	88800	15.80	72449	6.74
ZZZZZZ	192043	9.12	295324	9.99	152603	13.24	113351	15.80	67487	6.71
ZZZZZZ	171211	9.12	261860	9.99	132263	13.25	84512	15.80	66361	6.73
ZZZZZZ	211406	9.12	320311	9.99	162764	13.24	104438	15.80	71642	6.73
ZZZZZZ	177496	9.12	274110	9.99	137914	13.25	87158	15.80	64525	6.73
ZZZZZZ	199817	9.12	301495	9.99	152933	13.25	96265	15.80	76967	6.73
ZZZZZZ	208053	9.12	317608	9.99	161876	13.25	103627	15.80	73565	6.73
ZZZZZZ	204380	9.12	319147	9.99	164599	13.25	103283	15.80	79468	6.73
MC32373-4	180143	9.12	276818	9.99	142092	13.24	87797	15.80	64495	6.73
MC32218-2	197324	9.12	301863	9.99	153633	13.24	101767	15.80	75964	6.72
ZZZZZZ	181423	9.12	277926	9.99	143462	13.24	91137	15.80	67301	6.73
ZZZZZZ	195748	9.12	300013	9.99	154991	13.25	101637	15.80	80228	6.73
ZZZZZZ	190474	9.12	290904	9.99	146788	13.24	102855	15.80	69793	6.71
ZZZZZZ	179480	9.12	274752	9.99	141515	13.25	88699	15.80	73288	6.72
ZZZZZZ	190724	9.12	291177	9.99	149766	13.24	95818	15.80	73725	6.72
ZZZZZZ	204129	9.12	315188	9.99	160552	13.25	101431	15.80	73681	6.72
MC32218-2MS	204434	9.12	323230	9.99	174829	13.24	139655	15.80	71689	6.69
MC32218-2MSD	213875	9.11	338139	9.99	169605	13.24	138374	15.80	69764	6.69

IS 1 = Pentafluorobenzene

IS 2 = 1,4-Difluorobenzene

IS 3 = Chlorobenzene-D5

IS 4 = 1,4-Dichlorobenzene-d4

IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.

(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard Area Summary

Page 1 of 1

Job Number: MC32373

Account: WSPVAR WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Check Std: MSN3308-CC3306

Injection Date: 07/31/14

Lab File ID: N89202.D

Injection Time: 10:49

Instrument ID: GCMSN

Method: SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	225750	9.12	352775	9.99	190844	13.24	152563	15.80	77777	6.70
Upper Limit ^a	451500	9.62	705550	10.49	381688	13.74	305126	16.30	155554	7.20
Lower Limit ^b	112875	8.62	176388	9.49	95422	12.74	76282	15.30	38889	6.20

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSN3308-BS	237187	9.11	369681	9.99	190939	13.24	154716	15.80	80925	6.70
MSN3308-MB	209282	9.12	321253	9.99	163578	13.24	109220	15.80	86964	6.73
ZZZZZZ	186862	9.12	284251	9.99	149438	13.25	99476	15.80	67180	6.72
ZZZZZZ	173985	9.12	271907	9.99	137238	13.24	89000	15.80	67276	6.73
MC32373-2	203682	9.12	314170	9.99	161523	13.25	105085	15.80	85141	6.73
MC32252-11	187846	9.12	287051	9.99	146172	13.25	96539	15.80	70257	6.73
ZZZZZZ	190161	9.12	290230	9.99	149992	13.25	100121	15.80	64250	6.73
ZZZZZZ	194998	9.12	301991	9.99	153389	13.24	104366	15.80	70501	6.72
ZZZZZZ	183062	9.11	280139	9.99	144291	13.25	98813	15.80	67925	6.73
ZZZZZZ	181670	9.12	282823	9.99	145120	13.24	96439	15.80	73182	6.73
ZZZZZZ	162579	9.12	253067	9.99	128940	13.25	80968	15.80	59262	6.73
ZZZZZZ	174494	9.12	272717	9.99	137658	13.24	94581	15.80	63908	6.73
ZZZZZZ	195516	9.12	302362	9.99	154052	13.24	108080	15.80	73714	6.72
ZZZZZZ	184401	9.12	281572	9.99	142870	13.24	100841	15.80	69618	6.73
ZZZZZZ	182270	9.12	281673	9.99	144840	13.24	99671	15.80	63021	6.73
ZZZZZZ	181345	9.12	277406	9.99	141563	13.25	90675	15.80	71645	6.73
ZZZZZZ	183752	9.12	280066	9.99	141429	13.25	92603	15.80	64225	6.73
ZZZZZZ	199153	9.11	311280	9.99	160812	13.24	118947	15.80	79006	6.72
ZZZZZZ	188549	9.12	298083	9.99	150694	13.25	102501	15.80	65437	6.73
ZZZZZZ	196318	9.12	304213	9.99	154940	13.24	103932	15.80	71814	6.72
ZZZZZZ	180811	9.12	286773	9.99	146821	13.24	96022	15.80	71525	6.73
MC32252-11MS	169003	9.12	271278	9.99	144852	13.24	117904	15.80	61312	6.69
MC32252-11MSD	206345	9.12	326089	9.99	170087	13.24	137579	15.80	72233	6.70

IS 1 = Pentafluorobenzene

IS 2 = 1,4-Difluorobenzene

IS 3 = Chlorobenzene-D5

IS 4 = 1,4-Dichlorobenzene-d4

IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.

(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Surrogate Recovery Summary

Page 1 of 1

Job Number: MC32373

Account: WSPVAR WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Method: SW846 8260C

Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC32373-2	N89209.D	90	94	101
MC32373-4	N89182.D	87	94	104
MC32218-2MS	N89193.D	91	96	82
MC32218-2MSD	N89194.D	89	95	84
MC32252-11MS	N89226.D	90	96	83
MC32252-11MSD	N89227.D	90	94	83
MSN3307-BS	N89172.D	82	89	78
MSN3307-MB	N89174.D	82	89	98
MSN3308-BS	N89203.D	87	95	84
MSN3308-MB	N89206.D	88	94	96

Surrogate Compounds

Recovery Limits

S1 = Dibromofluoromethane

70-130%

S2 = Toluene-D8

70-130%

S3 = 4-Bromofluorobenzene

70-130%

6.6.1

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Initial Calibration Summary

Page 1 of 5

Job Number: MC32373
Account: WSPVAR WSP Environmental & Energy
Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY
Sample: MSN3306-ICC3306
Lab FileID: N89156.D

Response Factor Report MSN

Method : C:\msdchem\1\methods\n140729w.m (RTE Integrator)
 Title : SW-846 Method 8260
 Last Update : Wed Jul 30 12:02:51 2014
 Response via : Initial Calibration

Calibration Files

0.5 =N89150.D 1 =N89151.D 2 =N89152.D 5 =N89153.D
 10 =N89154.D 25 =N89155.D 50 =N89156.D 100 =N89157.D
 200 =N89158.D 400 =N89159.D = =

Compound	0.5	1	2	5	10	25	50	100	200	400	Avg	%RSD

1) p tert butyl alcohol-d9	-----ISTD-----											
2) tertiary butyl alcohol												
	1.682	1.401	2.178	1.856	1.734	1.707	1.859	1.791	1.776		12.24	
3) Ethanol												
	0.227	0.208	0.324	0.281	0.242	0.219	0.223	0.198	0.240		17.49	
4) I pentafluorobenzene	-----ISTD-----											
5) dichlorodifluoromethane												
	0.412	0.605	0.651	0.602	0.521	0.396	0.713	0.610	0.564		19.92	
6) chloromethane												
	0.700	0.965	0.888	0.850	0.766	0.712	0.872	0.804	0.820		11.16	
7) vinyl chloride												
	0.575	0.532	0.719	0.684	0.600	0.532	0.424	0.486		0.569	17.26	
8) bromomethane												
	0.285	0.342	0.383	0.380	0.360	0.340	0.410	0.369	0.359		10.52	
9) chloroethane												
	0.372	0.516	0.504	0.477	0.425	0.384	0.457	0.410	0.443		12.16	
10) ethyl ether												
	0.451	0.729	0.598	0.563	0.498	0.565	0.528	0.562		15.71		
11) acetonitrile												
	0.072	0.108	0.082	0.079	0.067	0.074	0.070	0.079		17.55		
12) trichlorofluoromethane												
	0.576	0.546	0.750	0.825	0.767	0.679	0.538	0.890	0.809	0.709	18.39	
13) freon-113												
	0.246	0.354	0.424	0.384	0.291				0.340	21.04		
---- Quadratic regression ---- Coefficient = 0.9998												
Response Ratio = -0.02665 + 0.52249 *A + -0.10931 *A^2												
14) acrolein												
	0.027	0.031	0.024	0.023	0.031				0.027#	13.96		
15) 1,1-dichloroethene												
	0.580	0.583	0.445	0.515	0.461	0.425	0.346	0.466	0.409	0.470	16.59	
16) acetone												
	0.076	0.111	0.086	0.072	0.057	0.065	0.061	0.075#	24.48			
---- Linear regression ---- Coefficient = 0.9976												
Response Ratio = 0.00763 + 0.06043 *A												
17) Methyl Acetate												
	0.396	0.543	0.469	0.409	0.380	0.389	0.364	0.421	14.98			
18) methylene chloride												
	0.549	0.497	0.737	0.588	0.545	0.471	0.550	0.505	0.555	14.78		
19) methyl tert butyl ether												
	1.279	1.074	0.925	1.284	1.115	1.249	1.218	1.498	1.394	1.226	13.96	
20) acrylonitrile												

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Initial Calibration Summary

Job Number: MC32373

Sample: MSN3306-ICC3306

Account: WSPVAR WSP Environmental & Energy

Lab FileID: N89156.D

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

	0.166	0.263	0.214	0.221	0.184	0.230	0.218	0.213	14.76
21) allyl chloride									
	0.388	0.430	1.073	0.944	0.940	0.806	0.921	0.786	34.25
	---- Quadratic regression ---- Coefficient = 0.9919								
	Response Ratio = -0.01957 + 0.90858 *A + -0.00032 *A^2								
22) trans-1,2-dichloroethene									
	0.446	0.415	0.408	0.641	0.559	0.529	0.461	0.574	0.509
23) iodomethane									
	0.261	0.355	0.331	0.309	0.276	0.336	0.303	0.310	10.79
24) carbon disulfide									
	0.870	1.398	1.286	1.248	1.040	1.461	1.327	1.233	16.89
25) propionitrile									
	0.001	0.002	0.006	0.006	0.006	0.009	0.009	0.006#	50.16
	---- Linear regression ---- Coefficient = 0.9909								
	Response Ratio = -0.00105 + 0.00856 *A								
26) vinyl acetate									
	0.189	0.264	0.322	0.457	0.465	0.710	0.818	0.461	50.21
	---- Quadratic regression ---- Coefficient = 0.9951								
	Response Ratio = -0.03908 + 0.46021 *A + 0.04697 *A^2								
27) chloroprene									
	0.785	1.285	1.201	1.134	0.954	1.210	0.972	1.077	16.57
28) di-isopropyl ether									
	2.224	2.101	3.205	2.692	2.492	2.138	2.284	1.735	2.359
29) methacrylonitrile									
	0.304	0.425	0.343	0.323	0.288	0.358	0.340	0.340	13.05
30) 2-butanone									
	0.030	0.045	0.047	0.048	0.044	0.054	0.048	0.045#	16.38
31) Hexane									
	0.596	0.888	0.854	0.765	0.632	0.780	0.607	0.732	16.45
32) 1,1-dichloroethane									
	0.727	0.817	0.952	1.657	1.406	1.341	1.161	1.414	1.305
	---- Linear regression ---- Coefficient = 0.9950								
	Response Ratio = -0.01240 + 1.32734 *A								
33) tert-butyl ethyl ether									
	1.277	0.795	1.105	0.916	1.405	1.664	2.205	1.858	1.403
	---- Quadratic regression ---- Coefficient = 0.9923								
	Response Ratio = -0.41438 + 2.31760 *A + -0.04885 *A^2								
34) isobutyl alcohol									
	0.282	0.420	0.365	0.332	0.283	0.325	0.252	0.323	17.71
35) 2,2-dichloropropane									
	0.004	0.193	0.434	0.632	0.640	0.891		0.466	69.78
	---- Quadratic regression ---- Coefficient = 0.9975								
	Response Ratio = -0.05636 + 0.51771 *A + 0.09544 *A^2								
36) cis-1,2-dichloroethene									
	0.536	0.541	0.473	0.757	0.635	0.606	0.541	0.660	0.585
37) ethyl acetate									
	1.409	2.099	1.824	1.659	1.416	1.625	1.258	1.613	17.70
38) bromochloromethane									
	0.204	0.316	0.271	0.259	0.234	0.270	0.213	0.252	15.33
39) chloroform									
	0.916	0.889	0.848	1.319	1.113	1.048	0.925	1.091	0.918
40) dibromofluoromethane (s)									
	0.642	0.532	0.559	0.597	0.532	0.647	0.578	0.584	8.14
41) Tetrahydrofuran									

Initial Calibration Summary

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Job Number: MC32373

Sample: MSN3306-ICC3306

Account: WSPVAR WSP Environmental & Energy

Lab FileID: N89156.D

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

		0.142	0.188	0.159	0.148	0.139	0.169	0.157	0.158	10.83	
42)	1,1,1-trichloroethane										
		0.055	0.103	0.232	0.837	0.890	0.887	0.773	1.025	0.600	66.40
	---- Quadratic regression ----	Coefficient = 0.9910									
	Response Ratio =	-0.01947 + 0.76940 *A + 0.06025 *A^2									
43) I	1,4-difluorobenzene	-----ISTD-----									
44)	Cyclohexane										
		0.465	0.671	0.791	0.739	0.593	0.856	0.714	0.690	18.80	
45)	carbon tetrachloride										
		0.195	0.256	0.219	0.387	0.409	0.412	0.356	0.491	0.341	30.98
	---- Quadratic regression ----	Coefficient = 0.9924									
	Response Ratio =	-0.00299 + 0.34113 *A + 0.03505 *A^2									
46)	1,1-dichloropropene										
		0.323	0.516	0.502	0.478	0.414	0.533	0.473	0.463	15.70	
47)	benzene										
		1.487	1.387	1.304	1.181	1.844	1.551	1.478	1.309	1.474	12.87
48)	1,2-dichloroethane										
		0.492	0.485	0.503	0.724	0.696	0.610	0.560	0.649	0.609	14.93
49)	tert-amyl methyl ether										
		0.711	0.599	0.746	0.491	0.582	0.690	0.891	0.868	0.697	19.90
50)	heptane										
		0.236	0.358	0.415	0.360	0.327	0.419	0.385	0.357	17.58	
51)	trichloroethene										
		0.525	0.449	0.411	0.370	0.535	0.463	0.434	0.391	0.441	13.04
52)	1,2-dichloropropane										
		0.337	0.367	0.623	0.544	0.521	0.469	0.504	0.429	0.474	19.91
53)	dibromomethane										
		0.174	0.168	0.264	0.223	0.212	0.200	0.230	0.209	0.210	14.62
54)	bromodichloromethane										
		0.396	0.400	0.393	0.644	0.561	0.558	0.522	0.601	0.555	18.44
55)	Methylcyclohexane										
		0.326	0.511	0.592	0.535	0.466	0.621	0.549	0.514	18.91	
56)	2-chloroethyl vinyl ether										
		0.367	0.623	0.544	0.521	0.469	0.504	0.429	0.494	16.74	
57)	methyl methacrylate										
		0.142	0.210	0.192	0.191	0.188	0.218	0.210	0.193	13.05	
58)	1,4-dioxane										
		0.001	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003#	23.19
	---- Linear regression ----	Coefficient = 0.9970									
	Response Ratio =	-0.00063 + 0.00319 *A									
59)	cis-1,3-dichloropropene										
		0.264	0.300	0.313	0.302	0.586	0.558	0.584	0.565	0.653	0.458
	---- Quadratic regression ----	Coefficient = 0.9974									
	Response Ratio =	-0.00458 + 0.53082 *A + 0.02981 *A^2									
60)	toluene-d8 (s)										
		1.604	1.345	1.421	1.528	1.347	1.524	1.347	1.445	7.38	
61)	4-methyl-2-pentanone										
		0.344	0.489	0.413	0.384	0.354	0.400	0.379	0.395	12.19	
62)	toluene										
		0.886	0.823	0.732	1.134	0.982	0.922	0.816	0.898	0.759	13.91
63)	trans-1,3-dichloropropene										
		0.253	0.213	0.257	0.261	0.479	0.444	0.470	0.467	0.549	0.396
	---- Linear regression ----	Coefficient = 0.9460									
	Response Ratio =	-0.00290 + 0.45236 *A									

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Initial Calibration Summary

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Job Number: MC32373

Sample: MSN3306-ICC3306

Account: WSPVAR WSP Environmental & Energy

Lab FileID: N89156.D

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

64)	1,1,2-trichloroethane	0.229	0.236	0.243	0.346	0.296	0.280	0.257	0.283	0.258	0.270	13.57
65)	ethyl methacrylate	0.242	0.384	0.352	0.352	0.339	0.387	0.341	0.342			14.13
66)	I chlorobenzene-d5	-----ISTD-----										
67)	tetrachloroethene	0.586	0.521	0.587	0.496	0.759	0.695	0.659	0.578	0.697	0.608	13.38
68)	1,3-dichloropropane	0.837	1.272	1.073	1.059	0.978	1.118	0.975	1.044			13.00
69)	dibromochloromethane	0.465	0.443	0.465	0.481	0.791	0.686	0.705	0.668	0.787	0.610	23.80
	---- Quadratic regression ----	Coefficient = 0.9970										
	Response Ratio =	-0.00309 + 0.64805 *A + 0.03271 *A^2										
70)	1,2-dibromoethane	0.474	0.454	0.673	0.585	0.569	0.531	0.621	0.566	0.559		12.98
71)	2-hexanone	0.345	0.546	0.508	0.490	0.459	0.546	0.505	0.486			14.28
72)	chlorobenzene	1.764	1.720	1.501	2.314	1.942	1.876	1.680	1.905	1.663	1.818	12.73
73)	1,1,1,2-tetrachloroethane	0.537	0.540	0.519	0.830	0.710	0.705	0.633	0.720	0.644	0.649	16.00
74)	ethylbenzene	3.352	3.267	2.787	4.346	3.720	3.560	3.182	3.671	3.051	3.437	13.20
75)	m,p-xylene	1.374	1.186	1.116	1.020	1.568	1.298	1.228	1.073	1.180	0.951	15.07
76)	o-xylene	1.283	1.302	1.183	1.042	1.586	1.339	1.266	1.135	1.228	1.005	13.33
77)	styrene	1.538	2.514	2.129	2.058	1.866	2.088	1.785	1.997			15.42
78)	bromoform	0.213	0.254	0.265	0.432	0.386	0.400	0.395	0.482	0.444	0.363	26.16
	---- Quadratic regression ----	Coefficient = 0.9955										
	Response Ratio =	-0.00666 + 0.42725 *A + 0.00318 *A^2										
79)	trans-1,4-dichloro-2-butene	0.004	0.043	0.061	0.087	0.110	0.169				0.079	72.20
	---- Quadratic regression ----	Coefficient = 0.9997										
	Response Ratio =	-0.00562 + 0.06145 *A + 0.02705 *A^2										
80)	I 1,4-dichlorobenzene-d	-----ISTD-----										
81)	isopropylbenzene	3.608	5.157	4.482	4.026	3.626	4.363	4.005	4.181			12.98
82)	bromofluorobenzene (s)	1.860	1.452	1.437	1.477	1.352	1.609	1.536	1.532			10.80
83)	bromobenzene	0.858	1.227	1.008	0.941	0.859	0.994	0.961	0.978			12.75
84)	1,1,2,2-tetrachloroethane	1.247	1.099	0.930	0.911	1.185	0.972	0.885	0.777	0.868	0.786	16.67
85)	1,2,3-trichloropropane	0.708	0.995	0.846	0.829	0.821	1.037	1.051	0.898			14.50
86)	n-propylbenzene	4.272	6.336	5.535	4.886	4.480	5.324	4.953	5.112			13.61
87)	2-chlorotoluene	2.982	4.289	3.559	3.229	2.945	3.470	3.258	3.390			13.47
88)	4-chlorotoluene	2.871	4.231	3.628	3.308	3.048	3.589	3.372	3.435			12.92
89)	1,3,5-trimethylbenzene											

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Initial Calibration Summary

Job Number: MC32373

Sample: MSN3306-ICC3306

Account: WSPVAR WSP Environmental & Energy

Lab FileID: N89156.D

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

	4.009	3.802	3.259	4.775	4.025	3.568	3.284	3.818	3.541	3.787	12.26
90) tert-butylbenzene											
	2.004	2.916	2.539	2.226	2.088	2.479	2.304	2.365	13.10		
91) 1,2,4-trimethylbenzene											
	3.553	3.408	2.983	4.671	3.965	3.555	3.214	3.727	3.529	3.623	13.34
92) sec-butylbenzene											
	3.659	5.655	5.116	4.381	4.157	4.824	4.501	4.613	14.18		
93) 1,3-dichlorobenzene											
	1.877	1.700	1.547	2.292	1.992	1.838	1.701	1.949	1.853	1.861	11.43
94) p-isopropyltoluene											
	2.767	4.536	4.093	3.467	3.256	3.639	3.184	3.563	16.66		
95) 1,4-dichlorobenzene											
	1.814	1.736	1.486	2.187	1.861	1.673	1.529	1.664	1.505	1.717	12.85
96) 1,2-dichlorobenzene											
	1.497	1.445	1.369	2.167	1.886	1.774	1.638	1.842	1.713	1.704	14.65
97) n-butylbenzene											
	1.313	3.658	3.881	3.474	3.359	3.907	3.656	3.321	27.32		
---- Quadratic regression ---- Coefficient = 0.9964											
Response Ratio = -0.16989 + 3.80896 *A + -0.01312 *A^2											
98) 1,2-dibromo-3-chloropropane											
	0.044	0.120	0.130	0.138	0.137	0.174	0.183	0.132	34.12		
---- Linear regression ---- Coefficient = 0.9919											
Response Ratio = -0.01611 + 0.17570 *A											
99) 1,2,4-trichlorobenzene											
	0.081	0.150	0.401	0.578	0.709	0.929		0.475	69.09		
---- Quadratic regression ---- Coefficient = 0.9988											
Response Ratio = -0.05486 + 0.50165 *A + 0.11110 *A^2											
100) 1,3,5-trichlorobenzene											
	0.405	1.168	1.207	1.105	1.074	1.218	1.170	1.050	27.51		
---- Linear regression ---- Coefficient = 0.9989											
Response Ratio = -0.04523 + 1.18255 *A											
101) hexachlorobutadiene											
	0.192	0.545	0.619	0.550	0.532	0.622	0.660	0.532	29.53		
---- Linear regression ---- Coefficient = 0.9950											
Response Ratio = -0.03983 + 0.63895 *A											
102) naphthalene											
	0.529	0.465	0.645	0.493	0.540	0.826	1.389	0.698	47.03		
---- Quadratic regression ---- Coefficient = 0.9985											
Response Ratio = 0.01640 + 0.29081 *A + 0.27210 *A^2											
103) 1,2,3-trichlorobenzene											
	0.104	0.137	0.175	0.313	0.467	0.694		0.315	72.76		
---- Quadratic regression ---- Coefficient = 0.9987											
Response Ratio = -0.01628 + 0.20371 *A + 0.12482 *A^2											
104) 2-methylnaphthalene											
	0.263	0.442	0.422	0.446	0.459	0.530	0.498	0.437	19.48		
105) 1-methylnaphthalene											
	0.237	0.375	0.397	0.377	0.349	0.401	0.384	0.360	15.79		

(#) = Out of Range ### Number of calibration levels exceeded format ###

n140729w.m

Wed Jul 30 12:33:14 2014

Initial Calibration Verification

Page 1 of 4

Job Number: MC32373

Sample: MSN3306-ICV3306

Account: WSPVAR WSP Environmental & Energy

Lab FileID: N89162.D

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\N140729\N89162.D

Vial: 35

Acq On : 30 Jul 2014 1:26 am

Operator: krystend

Sample : ICV3306-50

Inst : MSN

Misc : ms32328,MSN3306,,,,5,1

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\n140729w.m (RTE Integrator)

Title : SW-846 Method 8260

Last Update : Wed Jul 30 12:02:51 2014

Response via : Multiple Level Calibration

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

Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 p	tert butyl alcohol-d9	1.000	1.000	0.0	91	0.00	6.69
2 P	tertiary butyl alcohol	1.776	1.609	9.4	84	0.00	6.78
3 p	Ethanol	0.240	0.247	-2.9	93	0.00	5.55
4 I	pentafluorobenzene	1.000	1.000	0.0	104	0.00	9.12
5 p	dichlorodifluoromethane	0.564	0.597	-5.9	120	0.00	4.37
6 P	chloromethane	0.820	0.811	1.1	110	0.00	4.64
7 p	vinyl chloride	0.569	0.610	-7.2	119	0.00	4.88
8 p	bromomethane	0.359	0.400	-11.4	116	0.00	5.39
9 p	chloroethane	0.443	0.382	13.8	94	0.00	5.56
10 p	ethyl ether	0.562	0.527	6.2	98	0.00	6.43
11 p	acetonitrile	0.079	0.078	1.3	103	0.00	6.42
12 p	trichlorofluoromethane	0.709	0.878	-23.8#	135	0.00	6.19
----- Amount Calc. %Drift -----							
13 p	freon-113	50.000	58.138	-16.3	118	0.00	6.96
----- AvgRF CCRF %Dev -----							
14 p	acrolein	0.027	0.049#	-81.5#	222#	-0.01	6.19
15 p	1,1-dichloroethene	0.470	0.436	7.2	107	0.00	6.78
----- Amount Calc. %Drift -----							
16 p	acetone	50.000	40.540	18.9	82	0.00	6.33
----- AvgRF CCRF %Dev -----							
17 M	Methyl Acetate	0.421	0.345	18.1	88	0.00	6.96
18 p	methylene chloride	0.555	0.528	4.9	101	0.00	6.94
19 p	methyl tert butyl ether	1.226	1.218	0.7	102	0.00	7.70
20 p	acrylonitrile	0.213	0.196	8.0	93	0.00	6.84
----- Amount Calc. %Drift -----							
21 p	allyl chloride	50.000	47.912	4.2	94	0.00	7.02
----- AvgRF CCRF %Dev -----							
22 p	trans-1,2-dichloroethene	0.505	0.516	-2.2	102	0.00	7.62
23 p	iodomethane	0.310	0.382	-23.2#	129	0.00	6.86
24 p	carbon disulfide	1.233	1.497	-21.4#	125	0.00	7.21
----- Amount Calc. %Drift -----							
25 p	propionitrile	50.000	41.121	17.8	97	-0.01	6.84
26 p	vinyl acetate	50.000	59.137	-18.3	130	0.00	7.97

Initial Calibration Verification

Job Number: MC32373

Sample: MSN3306-ICV3306

Account: WSPVAR WSP Environmental & Energy

Lab FileID: N89162.D

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

		AvgRF	CCRF	%Dev			
27 p	chloroprene	1.077	0.935	13.2	86	0.00	8.23
28 p	di-isopropyl ether	2.359	2.314	1.9	97	0.00	8.26
29 p	methacrylonitrile	0.340	0.271	20.3#	87	0.00	8.39
30 p	2-butanone	0.045	0.041#	8.9	91	0.00	8.28
31 p	Hexane	0.732	0.798	-9.0	109	0.00	8.25
		Amount	Calc.	%Drift			
32 P	1,1-dichloroethane	50.000	48.030	3.9	98	0.00	7.87
33 p	tert-butyl ethyl ether	50.000	39.530	20.9#	103	0.00	8.66
		AvgRF	CCRF	%Dev			
34 p	isobutyl alcohol	0.323	0.324	-0.3	102	0.00	8.26
		Amount	Calc.	%Drift			
35 p	2,2-dichloropropane	50.000	51.177	-2.4	95	0.00	8.73
		AvgRF	CCRF	%Dev			
36 p	cis-1,2-dichloroethene	0.593	0.580	2.2	100	0.00	8.44
37 p	ethyl acetate	1.613	1.618	-0.3	102	0.00	8.26
38 p	bromochloromethane	0.252	0.249	1.2	100	0.00	8.61
39 p	chloroform	1.007	1.031	-2.4	103	0.00	8.64
40 S	dibromofluoromethane (s)	0.584	0.561	3.9	98	0.00	8.77
41 p	Tetrahydrofuran	0.158	0.132	16.5	93	0.00	8.98
		Amount	Calc.	%Drift			
42 p	1,1,1-trichloroethane	50.000	54.943	-9.9	106	0.00	9.39
		AvgRF	CCRF	%Dev			
43 I	1,4-difluorobenzene	1.000	1.000	0.0	105	0.00	9.99
44 p	Cyclohexane	0.690	0.823	-19.3	117	0.00	9.67
		Amount	Calc.	%Drift			
45 p	carbon tetrachloride	50.000	57.388	-14.8	111	0.00	9.76
		AvgRF	CCRF	%Dev			
46 p	1,1-dichloropropene	0.463	0.483	-4.3	106	0.00	9.56
47 p	benzene	1.431	1.399	2.2	100	0.00	9.79
48 p	1,2-dichloroethane	0.592	0.550	7.1	95	0.00	9.30
49 p	tert-amyl methyl ether	0.697	0.580	16.8	105	0.00	9.90
50 p	heptane	0.357	0.410	-14.8	120	0.00	10.26
51 p	trichloroethene	0.439	0.409	6.8	99	0.00	10.41
52 p	1,2-dichloropropane	0.474	0.506	-6.8	102	0.00	10.38
53 p	dibromomethane	0.210	0.198	5.7	98	0.00	10.36
54 p	bromodichloromethane	0.514	0.515	-0.2	97	0.00	10.47
55 p	Methylcyclohexane	0.514	0.612	-19.1	121	0.00	10.92
56 p	2-chloroethyl vinyl ether	0.494	0.506	-2.4	102	0.00	10.38
57 p	methyl methacrylate	0.193	0.167	13.5	92	0.00	10.55
		Amount	Calc.	%Drift			
58 p	1,4-dioxane	250.000	207.010	17.2	91	0.00	10.57
59 p	cis-1,3-dichloropropene	50.000	47.636	4.7	95	0.00	11.08
		AvgRF	CCRF	%Dev			
60 S	toluene-d8 (s)	1.445	1.414	2.1	97	0.00	11.78
61 p	4-methyl-2-pentanone	0.395	0.317	19.7	87	0.00	11.17
62 p	toluene	0.884	0.878	0.7	100	0.00	11.86
		Amount	Calc.	%Drift			

Initial Calibration Verification

Job Number: MC32373

Sample: MSN3306-ICV3306

Account: WSPVAR WSP Environmental & Energy

Lab FileID: N89162.D

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

63 p	trans-1,3-dichloropropene	50.000	42.215	15.6	85	0.00	11.50
		AvgRF	CCRF	%Dev			
64 p	1,1,2-trichloroethane	0.270	0.263	2.6	99	0.00	11.67
65 p	ethyl methacrylate	0.342	0.322	5.8	96	0.00	11.87
66 I	chlorobenzene-d5	1.000	1.000	0.0	108	0.00	13.24
67 p	tetrachloroethene	0.619	0.639	-3.2	105	0.00	12.59
68 p	1,3-dichloropropane	1.044	0.948	9.2	97	0.00	11.91
		Amount	Calc.	%Drift			
69 p	dibromochloromethane	50.000	45.513	9.0	94	0.00	12.20
		AvgRF	CCRF	%Dev			
70 p	1,2-dibromoethane	0.559	0.512	8.4	98	0.00	12.45
71 p	2-hexanone	0.486	0.386	20.6#	85	0.00	12.03
72 P	chlorobenzene	1.818	1.699	6.5	98	0.00	13.28
73 p	1,1,1,2-tetrachloroethane	0.649	0.646	0.5	99	0.00	13.19
74 p	ethylbenzene	3.437	3.256	5.3	99	0.00	13.45
75 p	m,p-xylene	1.199	1.131	5.7	100	0.00	13.63
76 p	o-xylene	1.237	1.154	6.7	99	0.00	14.05
77 p	styrene	1.997	1.864	6.7	98	0.00	13.97
		Amount	Calc.	%Drift			
78 P	bromoform	50.000	41.932	16.1	96	0.00	13.80
79 p	trans-1,4-dichloro-2-bute	50.000	41.399	17.2	79	0.00	14.19
		AvgRF	CCRF	%Dev			
80 I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	105	0.00	15.80
81 p	isopropylbenzene	4.181	3.808	8.9	100	0.00	14.41
82 S	bromofluorobenzene (s)	1.532	1.355	11.6	97	0.00	14.47
83 p	bromobenzene	0.978	0.880	10.0	99	0.00	14.70
84 P	1,1,2,2-tetrachloroethane	0.966	0.801	17.1	95	0.00	14.05
85 p	1,2,3-trichloropropane	0.898	0.739	17.7	94	0.00	14.20
86 p	n-propylbenzene	5.112	5.000	2.2	108	0.00	14.85
87 p	2-chlorotoluene	3.390	3.044	10.2	99	0.00	14.97
88 p	4-chlorotoluene	3.435	3.180	7.4	101	0.00	15.05
89 p	1,3,5-trimethylbenzene	3.787	3.569	5.8	105	0.00	15.13
90 p	tert-butylbenzene	2.365	2.292	3.1	109	0.00	15.43
91 p	1,2,4-trimethylbenzene	3.623	3.520	2.8	104	0.00	15.54
92 M	sec-butylbenzene	4.613	4.580	0.7	110	0.00	15.65
93 p	1,3-dichlorobenzene	1.861	1.736	6.7	100	0.00	15.76
94 p	p-isopropyltoluene	3.563	3.651	-2.5	111	0.00	15.82
95 p	1,4-dichlorobenzene	1.717	1.618	5.8	102	0.00	15.83
96 p	1,2-dichlorobenzene	1.704	1.670	2.0	99	0.00	16.19
		Amount	Calc.	%Drift			
97 p	n-butylbenzene	50.000	51.249	-2.5	113	0.00	16.24
98 p	1,2-dibromo-3-chloropropa	50.000	38.489	23.0#	91	0.00	16.67
99 p	1,2,4-trichlorobenzene	50.000	49.784	0.4	101	0.00	18.02
100 p	1,3,5-trichlorobenzene	50.000	49.575	0.8	108	0.00	17.48
101 p	hexachlorobutadiene	50.000	50.506	-1.0	116	0.00	18.31
102 p	naphthalene	50.000	44.093	11.8	95	0.00	18.29
103 p	1,2,3-trichlorobenzene	50.000	48.095	3.8	99	0.00	18.50
		AvgRF	CCRF	%Dev			
104 p	2-methylnaphthalene	0.437	0.444	-1.6	105	0.00	19.67
105 p	1-methylnaphthalene	0.360	0.351	2.5	98	0.00	19.92

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Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Wed Jul 30 12:21:14 2014

Continuing Calibration Summary

Page 1 of 4

Job Number: MC32373

Sample: MSN3307-CC3306

Account: WSPVAR WSP Environmental & Energy

Lab FileID: N89172.D

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\N140730\N89172.D

Vial: 17

Acq On : 30 Jul 2014 1:16 pm

Operator: krystend

Sample : cc3306-50

Inst : MSN

Misc : ms32328,MSN3307,,,,5,1

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\n140729w.m (RTE Integrator)

Title : SW-846 Method 8260

Last Update : Wed Jul 30 14:05:07 2014

Response via : Multiple Level Calibration

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

Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 p	tert butyl alcohol-d9	1.000	1.000	0.0	107	0.00	6.70
2 P	tertiary butyl alcohol	1.776	1.733	2.4	107	0.00	6.78
3 p	Ethanol	0.240	0.266	-10.8	118	0.00	5.56
4 I	pentafluorobenzene	1.000	1.000	0.0	96	0.00	9.12
5 p	dichlorodifluoromethane	0.564	0.503	10.8	93	0.00	4.38
6 P	chloromethane	0.820	0.799	2.6	100	0.00	4.64
7 p	vinyl chloride	0.569	0.580	-1.9	105	0.00	4.89
8 p	bromomethane	0.359	0.385	-7.2	103	0.00	5.39
9 p	chloroethane	0.443	0.389	12.2	88	0.00	5.55
10 p	ethyl ether	0.562	0.589	-4.8	101	0.00	6.43
11 p	acetonitrile	0.079	0.079	0.0	97	0.00	6.42
12 p	trichlorofluoromethane	0.709	0.771	-8.7	109	0.00	6.20
	----- Amount	Calc.	%Drift	-----			
13 p	freon-113	50.000	56.974	-13.9	107	0.00	6.96
	----- AvgRF	CCRF	%Dev	-----			
14 p	acrolein	0.027	0.071	-163.0#	294#	0.00	6.20
15 p	1,1-dichloroethene	0.470	0.427	9.1	97	0.00	6.78
	----- Amount	Calc.	%Drift	-----			
16 p	acetone	50.000	50.258	-0.5	92	0.00	6.33
	----- AvgRF	CCRF	%Dev	-----			
17 M	Methyl Acetate	0.421	0.454	-7.8	107	0.00	6.96
18 p	methylene chloride	0.555	0.548	1.3	97	0.00	6.94
19 p	methyl tert butyl ether	1.226	1.409	-14.9	109	0.00	7.70
20 p	acrylonitrile	0.213	0.229	-7.5	100	0.00	6.84
	----- Amount	Calc.	%Drift	-----			
21 p	allyl chloride	50.000	51.387	-2.8	94	0.00	7.03
	----- AvgRF	CCRF	%Dev	-----			
22 p	trans-1,2-dichloroethene	0.505	0.532	-5.3	97	0.00	7.62
23 p	iodomethane	0.310	0.393	-26.8#	122	0.00	6.85
24 p	carbon disulfide	1.233	1.480	-20.0#	114	0.00	7.22
	----- Amount	Calc.	%Drift	-----			
25 p	propionitrile	50.000	51.464	-2.9	116	0.00	6.85
26 p	vinyl acetate	50.000	88.856	-77.7#	195	0.00	7.97

Continuing Calibration Summary

Job Number: MC32373

Sample: MSN3307-CC3306

Account: WSPVAR WSP Environmental & Energy

Lab FileID: N89172.D

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

		AvgRF	CCRF	%Dev			
27 p	chloroprene	1.077	0.979	9.1	83	0.00	8.23
28 p	di-isopropyl ether	2.359	2.601	-10.3	101	0.00	8.26
29 p	methacrylonitrile	0.340	0.326	4.1	97	0.00	8.40
30 p	2-butanone	0.045	0.052#	-15.6	105	0.00	8.29
31 p	Hexane	0.732	0.903	-23.4#	114	0.00	8.25
		Amount	Calc.	%Drift			
32 P	1,1-dichloroethane	50.000	51.397	-2.8	97	0.00	7.87
33 p	tert-butyl ethyl ether	50.000	42.124	15.8	103	0.00	8.66
		AvgRF	CCRF	%Dev			
34 p	isobutyl alcohol	0.323	0.373	-15.5	108	0.00	8.26
		Amount	Calc.	%Drift			
35 p	2,2-dichloropropane	50.000	63.900	-27.8#	116	0.00	8.73
		AvgRF	CCRF	%Dev			
36 p	cis-1,2-dichloroethene	0.593	0.620	-4.6	99	0.00	8.44
37 p	ethyl acetate	1.613	1.867	-15.7	108	0.00	8.26
38 p	bromochloromethane	0.252	0.263	-4.4	98	0.00	8.61
39 p	chloroform	1.007	1.091	-8.3	100	0.00	8.64
40 S	dibromofluoromethane (s)	0.526	0.431	18.1	77	0.00	8.76
41 p	Tetrahydrofuran	0.158	0.172	-8.9	112	0.00	8.98
		Amount	Calc.	%Drift			
42 p	1,1,1-trichloroethane	50.000	57.051	-14.1	102	0.00	9.39
		AvgRF	CCRF	%Dev			
43 I	1,4-difluorobenzene	1.000	1.000	0.0	97	0.00	9.99
44 p	Cyclohexane	0.690	0.808	-17.1	106	0.00	9.67
		Amount	Calc.	%Drift			
45 p	carbon tetrachloride	50.000	56.341	-12.7	101	0.00	9.76
		AvgRF	CCRF	%Dev			
46 p	1,1-dichloropropene	0.463	0.507	-9.5	103	0.00	9.57
47 p	benzene	1.431	1.494	-4.4	98	0.00	9.79
48 p	1,2-dichloroethane	0.592	0.628	-6.1	100	0.00	9.30
49 p	tert-amyl methyl ether	0.697	0.616	11.6	103	0.00	9.91
50 p	heptane	0.357	0.473	-32.5#	128	0.00	10.26
51 p	trichloroethene	0.439	0.439	0.0	98	0.00	10.41
52 p	1,2-dichloropropane	0.474	0.544	-14.8	102	0.00	10.38
53 p	dibromomethane	0.210	0.222	-5.7	102	0.00	10.36
54 p	bromodichloromethane	0.514	0.550	-7.0	96	0.00	10.47
55 p	Methylcyclohexane	0.514	0.604	-17.5	110	0.00	10.92
56 p	2-chloroethyl vinyl ether	0.494	0.544	-10.1	102	0.00	10.38
57 p	methyl methacrylate	0.193	0.210	-8.8	107	0.00	10.55
		Amount	Calc.	%Drift			
58 p	1,4-dioxane	250.000	274.484	-9.8	113	0.00	10.56
59 p	cis-1,3-dichloropropene	50.000	53.415	-6.8	99	0.00	11.08
		AvgRF	CCRF	%Dev			
60 S	toluene-d8 (s)	1.300	1.162	10.6	82	0.00	11.78
61 p	4-methyl-2-pentanone	0.395	0.415	-5.1	105	0.00	11.17
62 p	toluene	0.884	0.924	-4.5	97	0.00	11.86
		Amount	Calc.	%Drift			

Continuing Calibration Summary

Page 3 of 4

Job Number: MC32373

Sample: MSN3307-CC3306

Account: WSPVAR WSP Environmental & Energy

Lab FileID: N89172.D

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

63 p	trans-1,3-dichloropropene	50.000	49.284	1.4	92	0.00	11.50
		AvgRF	CCRF	%Dev			
64 p	1,1,2-trichloroethane	0.270	0.291	-7.8	101	0.00	11.67
65 p	ethyl methacrylate	0.342	0.397	-16.1	110	0.00	11.87
66 I	chlorobenzene-d5	1.000	1.000	0.0	95	0.00	13.24
67 p	tetrachloroethene	0.619	0.694	-12.1	100	0.00	12.59
68 p	1,3-dichloropropane	1.044	1.111	-6.4	100	0.00	11.91
		Amount	Calc.	%Drift			
69 p	dibromochloromethane	50.000	52.418	-4.8	96	0.00	12.19
		AvgRF	CCRF	%Dev			
70 p	1,2-dibromoethane	0.559	0.605	-8.2	101	0.00	12.45
71 p	2-hexanone	0.486	0.542	-11.5	105	0.00	12.03
72 P	chlorobenzene	1.818	1.875	-3.1	95	0.00	13.28
73 p	1,1,1,2-tetrachloroethane	0.649	0.715	-10.2	96	0.00	13.19
74 p	ethylbenzene	3.437	3.569	-3.8	95	0.00	13.45
75 p	m,p-xylene	1.199	1.253	-4.5	97	0.00	13.63
76 p	o-xylene	1.237	1.251	-1.1	94	0.00	14.05
77 p	styrene	1.997	2.029	-1.6	94	0.00	13.97
		Amount	Calc.	%Drift			
78 P	bromoform	50.000	51.380	-2.8	104	0.00	13.80
79 p	trans-1,4-dichloro-2-bute	50.000	62.244	-24.5#	123	0.00	14.20
		AvgRF	CCRF	%Dev			
80 I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	96	0.00	15.80
81 p	isopropylbenzene	4.181	3.897	6.8	93	0.00	14.40
82 S	bromofluorobenzene (s)	1.379	1.079	21.8#	78	0.00	14.47
83 p	bromobenzene	0.978	0.945	3.4	97	0.00	14.70
84 P	1,1,2,2-tetrachloroethane	0.966	0.983	-1.8	107	0.00	14.05
85 p	1,2,3-trichloropropane	0.898	0.937	-4.3	109	0.00	14.20
86 p	n-propylbenzene	5.112	5.237	-2.4	103	0.00	14.85
87 p	2-chlorotoluene	3.390	3.192	5.8	95	0.00	14.97
88 p	4-chlorotoluene	3.435	3.310	3.6	97	0.00	15.05
89 p	1,3,5-trimethylbenzene	3.787	3.753	0.9	101	0.00	15.12
90 p	tert-butylbenzene	2.365	2.358	0.3	102	0.00	15.43
91 p	1,2,4-trimethylbenzene	3.623	3.724	-2.8	101	0.00	15.54
92 M	sec-butylbenzene	4.613	4.715	-2.2	104	0.00	15.65
93 p	1,3-dichlorobenzene	1.861	1.855	0.3	97	0.00	15.76
94 p	p-isopropyltoluene	3.563	3.811	-7.0	106	0.00	15.82
95 p	1,4-dichlorobenzene	1.717	1.751	-2.0	101	0.00	15.82
96 p	1,2-dichlorobenzene	1.704	1.838	-7.9	100	0.00	16.19
		Amount	Calc.	%Drift			
97 p	n-butylbenzene	50.000	55.224	-10.4	112	0.00	16.24
98 p	1,2-dibromo-3-chloropropa	50.000	51.853	-3.7	116	0.00	16.67
99 p	1,2,4-trichlorobenzene	50.000	60.412	-20.8#	119	0.00	18.02
100 p	1,3,5-trichlorobenzene	50.000	55.056	-10.1	110	0.00	17.48
101 p	hexachlorobutadiene	50.000	53.128	-6.3	112	0.00	18.31
102 p	naphthalene	50.000	54.687	-9.4	118	0.00	18.29
103 p	1,2,3-trichlorobenzene	50.000	60.385	-20.8#	127	0.00	18.50
		AvgRF	CCRF	%Dev			
104 p	2-methylnaphthalene	0.437	0.475	-8.7	103	0.00	19.67
105 p	1-methylnaphthalene	0.360	0.396	-10.0	101	0.00	19.92

6.7.3

6

Page 4 of 4

Job Number: MC32373

Sample: MSN3307-CC3306

Account: WSPVAR WSP Environmental & Energy

Lab FileID: N89172.D

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

(#) = Out of Range

N89156.D n140729w.m

SPCC's out = 1 CCC's out = 0

Wed Jul 30 14:07:23 2014

Continuing Calibration Summary

Page 1 of 4

Job Number: MC32373

Sample: MSN3308-CC3306

Account: WSPVAR WSP Environmental & Energy

Lab FileID: N89202.D

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\N140731\N89202.D

Vial: 20

Acq On : 31 Jul 2014 10:49 am

Operator: jaclynb

Sample : cc3306-50

Inst : MSN

Misc : ms32401,MSN3308,,,,5,1

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\n140729w.m (RTE Integrator)

Title : SW-846 Method 8260

Last Update : Wed Jul 30 14:05:07 2014

Response via : Multiple Level Calibration

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

Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 p	tert butyl alcohol-d9	1.000	1.000	0.0	98	0.00	6.70
2 P	tertiary butyl alcohol	1.776	1.905	-7.3	108	0.00	6.79
3 p	Ethanol	0.240	0.267	-11.3	109	0.00	5.55
4 I	pentafluorobenzene	1.000	1.000	0.0	94	0.00	9.12
5 p	dichlorodifluoromethane	0.564	0.767	-36.0#	139	0.00	4.38
6 P	chloromethane	0.820	0.865	-5.5	106	0.00	4.64
7 p	vinyl chloride	0.569	0.695	-22.1#	123	0.00	4.88
8 p	bromomethane	0.359	0.379	-5.6	99	0.00	5.39
9 p	chloroethane	0.443	0.508	-14.7	112	0.00	5.56
10 p	ethyl ether	0.562	0.587	-4.4	98	0.00	6.43
11 p	acetonitrile	0.079	0.081	-2.5	97	0.00	6.43
12 p	trichlorofluoromethane	0.709	0.985	-38.9#	136	0.00	6.19
	----- Amount	Calc.	%Drift	-----			
13 p	freon-113	50.000	69.689	-39.4#	120	0.00	6.96
	----- AvgRF	CCRF	%Dev	-----			
14 p	acrolein	0.027	0.065	-140.7#	266#	0.00	6.19
15 p	1,1-dichloroethene	0.470	0.490	-4.3	109	0.00	6.78
	----- Amount	Calc.	%Drift	-----			
16 p	acetone	50.000	50.325	-0.7	90	0.00	6.33
	----- AvgRF	CCRF	%Dev	-----			
17 M	Methyl Acetate	0.421	0.453	-7.6	104	0.00	6.96
18 p	methylene chloride	0.555	0.586	-5.6	101	0.00	6.94
19 p	methyl tert butyl ether	1.226	1.247	-1.7	94	0.00	7.70
20 p	acrylonitrile	0.213	0.229	-7.5	97	0.00	6.85
	----- Amount	Calc.	%Drift	-----			
21 p	allyl chloride	50.000	56.555	-13.1	101	0.00	7.03
	----- AvgRF	CCRF	%Dev	-----			
22 p	trans-1,2-dichloroethene	0.505	0.575	-13.9	102	0.00	7.62
23 p	iodomethane	0.310	0.419	-35.2#	128	0.00	6.85
24 p	carbon disulfide	1.233	1.370	-11.1	103	0.00	7.22
	----- Amount	Calc.	%Drift	-----			
25 p	propionitrile	50.000	51.424	-2.8	113	-0.01	6.84
26 p	vinyl acetate	50.000	69.459	-38.9#	142	0.00	7.97

Continuing Calibration Summary

Page 2 of 4

Job Number: MC32373

Sample: MSN3308-CC3306

Account: WSPVAR WSP Environmental & Energy

Lab FileID: N89202.D

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

		AvgRF	CCRF	%Dev			
27 p	chloroprene	1.077	1.272	-18.1	105	0.00	8.23
28 p	di-isopropyl ether	2.359	2.627	-11.4	99	0.00	8.26
29 p	methacrylonitrile	0.340	0.315	7.4	92	0.00	8.39
30 p	2-butanone	0.045	0.054#	-20.0#	106	0.00	8.29
31 p	Hexane	0.732	0.920	-25.7#	113	0.00	8.25
		Amount	Calc.	%Drift			
32 P	1,1-dichloroethane	50.000	54.432	-8.9	100	0.00	7.87
33 p	tert-butyl ethyl ether	50.000	33.693	32.6#	75	0.00	8.66
		AvgRF	CCRF	%Dev			
34 p	isobutyl alcohol	0.323	0.377	-16.7	107	0.00	8.26
		Amount	Calc.	%Drift			
35 p	2,2-dichloropropane	50.000	65.984	-32.0#	118	0.00	8.73
		AvgRF	CCRF	%Dev			
36 p	cis-1,2-dichloroethene	0.593	0.643	-8.4	100	0.00	8.44
37 p	ethyl acetate	1.613	1.883	-16.7	107	0.00	8.26
38 p	bromochloromethane	0.252	0.277	-9.9	101	0.00	8.61
39 p	chloroform	1.007	1.134	-12.6	102	0.00	8.64
40 S	dibromofluoromethane (s)	0.526	0.476	9.5	83	0.00	8.77
41 p	Tetrahydrofuran	0.158	0.164	-3.8	104	0.00	8.98
		Amount	Calc.	%Drift			
42 p	1,1,1-trichloroethane	50.000	60.020	-20.0#	105	0.00	9.39
		AvgRF	CCRF	%Dev			
43 I	1,4-difluorobenzene	1.000	1.000	0.0	96	0.00	9.99
44 p	Cyclohexane	0.690	0.892	-29.3#	116	0.00	9.67
		Amount	Calc.	%Drift			
45 p	carbon tetrachloride	50.000	64.231	-28.5#	115	0.00	9.75
		AvgRF	CCRF	%Dev			
46 p	1,1-dichloropropene	0.463	0.547	-18.1	110	0.00	9.57
47 p	benzene	1.431	1.571	-9.8	102	0.00	9.79
48 p	1,2-dichloroethane	0.592	0.621	-4.9	98	0.00	9.30
49 p	tert-amyl methyl ether	0.697	0.458	34.3#	76	0.00	9.90
50 p	heptane	0.357	0.495	-38.7#	132	0.00	10.26
51 p	trichloroethene	0.439	0.455	-3.6	101	0.00	10.41
52 p	1,2-dichloropropane	0.474	0.552	-16.5	102	0.00	10.38
53 p	dibromomethane	0.210	0.224	-6.7	101	0.00	10.36
54 p	bromodichloromethane	0.514	0.593	-15.4	102	0.00	10.47
55 p	Methylcyclohexane	0.514	0.686	-33.5#	123	0.00	10.92
56 p	2-chloroethyl vinyl ether	0.494	0.552	-11.7	102	0.00	10.38
57 p	methyl methacrylate	0.193	0.207	-7.3	104	0.00	10.55
		Amount	Calc.	%Drift			
58 p	1,4-dioxane	250.000	276.372	-10.5	112	0.00	10.56
59 p	cis-1,3-dichloropropene	50.000	55.122	-10.2	102	0.00	11.08
		AvgRF	CCRF	%Dev			
60 S	toluene-d8 (s)	1.300	1.259	3.2	88	0.00	11.78
61 p	4-methyl-2-pentanone	0.395	0.411	-4.1	103	0.00	11.17
62 p	toluene	0.884	0.988	-11.8	103	0.00	11.86
		Amount	Calc.	%Drift			

6.7.4
6

Continuing Calibration Summary

Page 3 of 4

Job Number: MC32373

Sample: MSN3308-CC3306

Account: WSPVAR WSP Environmental & Energy

Lab FileID: N89202.D

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

63 p	trans-1,3-dichloropropene	50.000	53.761	-7.5	99	0.00	11.50
		AvgRF	CCRF	%Dev			
64 p	1,1,2-trichloroethane	0.270	0.305	-13.0	104	0.00	11.67
65 p	ethyl methacrylate	0.342	0.396	-15.8	108	0.00	11.87
66 I	chlorobenzene-d5	1.000	1.000	0.0	100	0.00	13.24
67 p	tetrachloroethene	0.619	0.711	-14.9	107	0.00	12.59
68 p	1,3-dichloropropane	1.044	1.077	-3.2	101	0.00	11.91
		Amount	Calc.	%Drift			
69 p	dibromochloromethane	50.000	53.299	-6.6	103	0.00	12.20
		AvgRF	CCRF	%Dev			
70 p	1,2-dibromoethane	0.559	0.576	-3.0	101	0.00	12.46
71 p	2-hexanone	0.486	0.502	-3.3	102	0.00	12.02
72 P	chlorobenzene	1.818	1.878	-3.3	100	0.00	13.28
73 p	1,1,1,2-tetrachloroethane	0.649	0.723	-11.4	102	0.00	13.19
74 p	ethylbenzene	3.437	3.666	-6.7	103	0.00	13.45
75 p	m,p-xylene	1.199	1.267	-5.7	103	0.00	13.63
76 p	o-xylene	1.237	1.293	-4.5	102	0.00	14.05
77 p	styrene	1.997	2.062	-3.3	100	0.00	13.97
		Amount	Calc.	%Drift			
78 P	bromoform	50.000	50.038	-0.1	106	0.00	13.80
79 p	trans-1,4-dichloro-2-bute	50.000	55.110	-10.2	109	0.00	14.20
		AvgRF	CCRF	%Dev			
80 I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	98	0.00	15.80
81 p	isopropylbenzene	4.181	4.299	-2.8	105	0.00	14.40
82 S	bromofluorobenzene (s)	1.379	1.136	17.6	84	0.00	14.47
83 p	bromobenzene	0.978	0.980	-0.2	102	0.00	14.70
84 P	1,1,2,2-tetrachloroethane	0.966	0.996	-3.1	111	0.00	14.05
85 p	1,2,3-trichloropropane	0.898	0.899	-0.1	107	0.00	14.20
86 p	n-propylbenzene	5.112	5.316	-4.0	107	0.00	14.85
87 p	2-chlorotoluene	3.390	3.354	1.1	102	0.00	14.97
88 p	4-chlorotoluene	3.435	3.492	-1.7	104	0.00	15.05
89 p	1,3,5-trimethylbenzene	3.787	3.805	-0.5	105	0.00	15.13
90 p	tert-butylbenzene	2.365	2.455	-3.8	109	0.00	15.43
91 p	1,2,4-trimethylbenzene	3.623	3.737	-3.1	103	0.00	15.54
92 M	sec-butylbenzene	4.613	5.001	-8.4	112	0.00	15.65
93 p	1,3-dichlorobenzene	1.861	1.933	-3.9	104	0.00	15.76
94 p	p-isopropyltoluene	3.563	3.963	-11.2	113	0.00	15.83
95 p	1,4-dichlorobenzene	1.717	1.806	-5.2	106	0.00	15.83
96 p	1,2-dichlorobenzene	1.704	1.866	-9.5	104	0.00	16.19
		Amount	Calc.	%Drift			
97 p	n-butylbenzene	50.000	56.981	-14.0	118	0.00	16.24
98 p	1,2-dibromo-3-chloropropa	50.000	47.039	5.9	107	0.00	16.67
99 p	1,2,4-trichlorobenzene	50.000	60.504	-21.0#	122	0.00	18.02
100 p	1,3,5-trichlorobenzene	50.000	56.148	-12.3	114	0.00	17.48
101 p	hexachlorobutadiene	50.000	54.722	-9.4	118	0.00	18.30
102 p	naphthalene	50.000	54.325	-8.7	119	0.00	18.29
103 p	1,2,3-trichlorobenzene	50.000	61.396	-22.8#	133	0.00	18.50
		AvgRF	CCRF	%Dev			
104 p	2-methylnaphthalene	0.437	0.458	-4.8	101	0.00	19.67
105 p	1-methylnaphthalene	0.360	0.381	-5.8	99	0.00	19.92

6.7.4

6

Job Number: MC32373

Sample: MSN3308-CC3306

Account: WSPVAR WSP Environmental & Energy

Lab FileID: N89202.D

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

(#) = Out of Range

N89156.D n140729w.m

SPCC's out = 1 CCC's out = 0

Thu Jul 31 11:38:54 2014

GC/MS Volatiles

Raw Data

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140731\
 Data File : N89209.D
 Acq On : 31 Jul 2014 2:01 pm
 Operator : jaclynb
 Sample : mc32373-2
 Misc : ms32401,MSN3308,,,,5,1
 ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jul 31 14:36:25 2014
 Quant Method : C:\msdchem\1\methods\n140729w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Wed Jul 30 14:05:07 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.729	65	85141	500.00	ug/L	0.04
4) pentafluorobenzene	9.118	168	203682	50.00	ug/L	0.00
43) 1,4-difluorobenzene	9.992	114	314170	50.00	ug/L	0.00
66) chlorobenzene-d5	13.248	82	161523	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.800	152	105085	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.768	113	95866	44.77	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	89.54%		
60) toluene-d8 (s)	11.788	98	382058	46.76	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	93.52%		
82) bromofluorobenzene (s)	14.471	95	145708	50.29	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	100.58%		

Target Compounds Qvalue

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

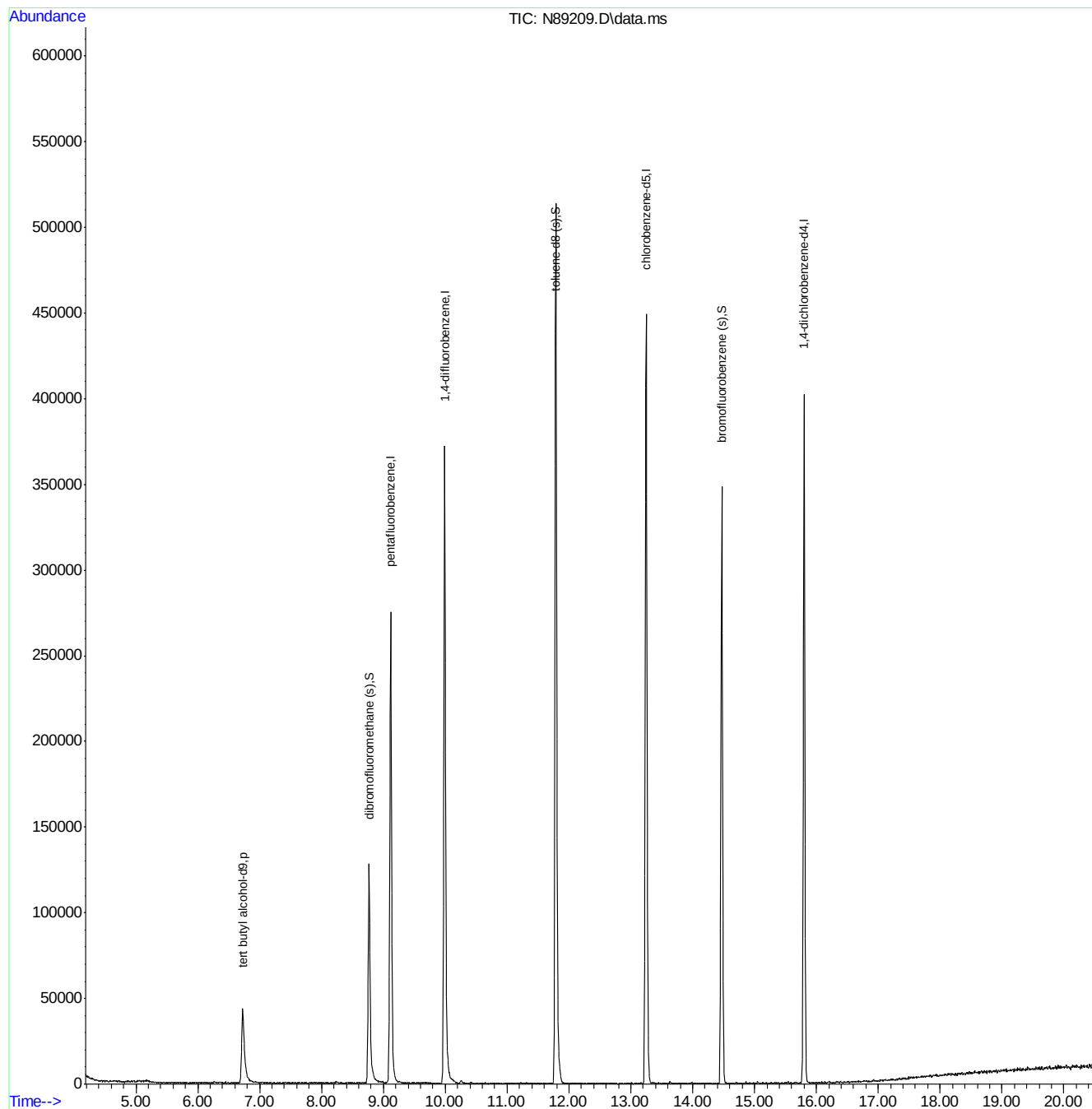
7.1.1

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140731\
Data File : N89209.D
Acq On : 31 Jul 2014 2:01 pm
Operator : jaclynb
Sample : mc32373-2
Misc : ms32401,MSN3308,,,,5,1
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jul 31 14:36:25 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 14:05:07 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140730\
Data File : N89182.D
Acq On : 30 Jul 2014 5:52 pm
Operator : krystend
Sample : mc32373-4
Misc : ms32401,MSN3307,,,,5,1
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jul 31 08:46:34 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 14:05:07 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.732	65	64495	500.00	ug/L	0.04
4) pentafluorobenzene	9.119	168	180143	50.00	ug/L	0.00
43) 1,4-difluorobenzene	9.992	114	276818	50.00	ug/L	0.00
66) chlorobenzene-d5	13.244	82	142092	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.800	152	87797	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.769	113	82014	43.31	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	86.62%		
60) toluene-d8 (s)	11.788	98	336845	46.78	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	93.56%		
82) bromofluorobenzene (s)	14.467	95	126060	52.07	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	104.14%		

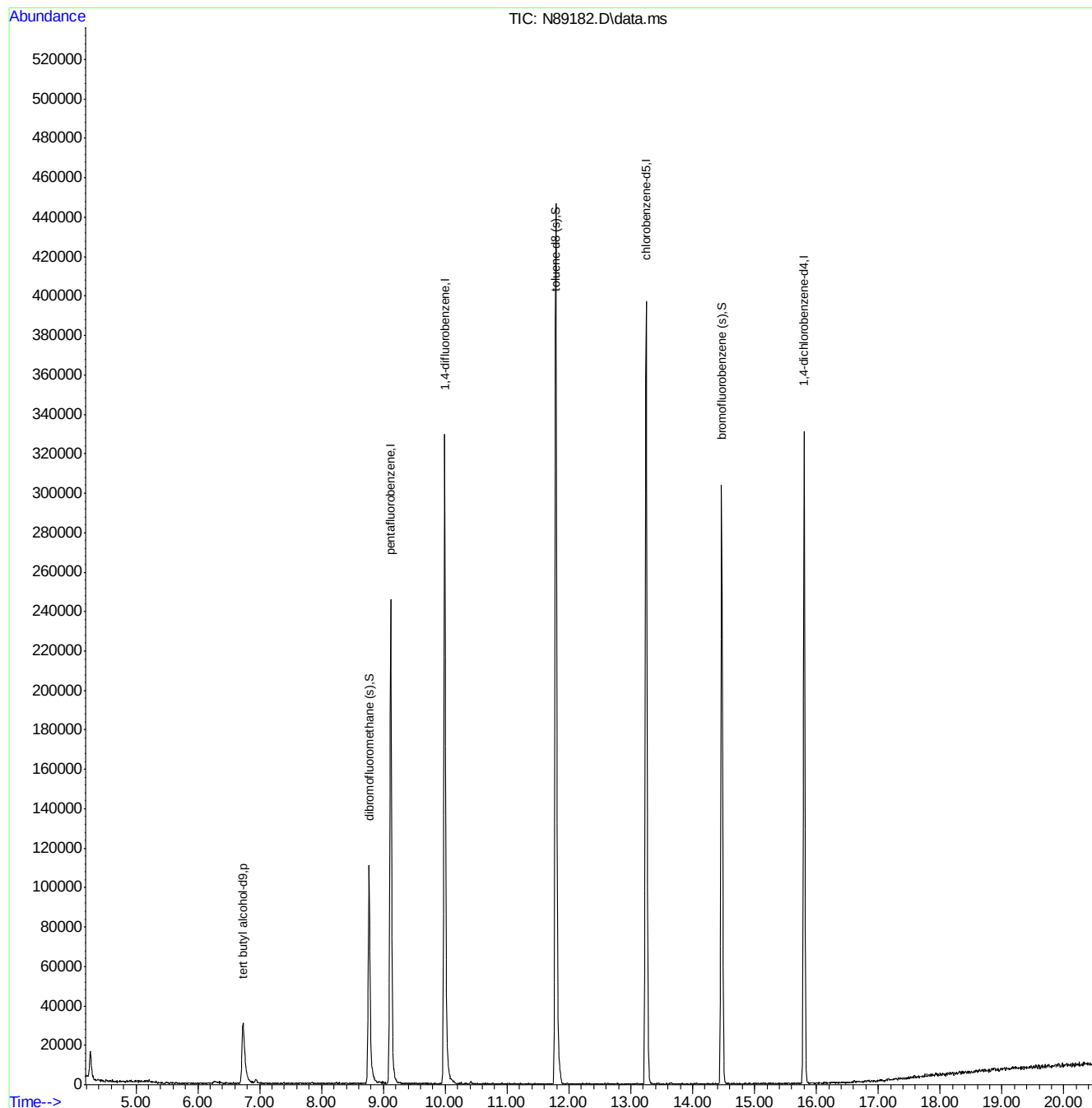
Target Compounds	Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140730\
Data File : N89182.D
Acq On : 30 Jul 2014 5:52 pm
Operator : krystend
Sample : mc32373-4
Misc : ms32401,MSN3307,,,,5,1
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jul 31 08:46:34 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 14:05:07 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140730\
Data File : N89174.D
Acq On : 30 Jul 2014 2:12 pm
Operator : krystend
Sample : mb
Misc : ms32328,MSN3307,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 30 14:33:48 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 14:05:07 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.736	65	72449	500.00	ug/L	0.04
4) pentafluorobenzene	9.119	168	184566	50.00	ug/L	0.00
43) 1,4-difluorobenzene	9.992	114	277788	50.00	ug/L	0.00
66) chlorobenzene-d5	13.244	82	139317	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.804	152	88800	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.769	113	79631	41.04	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	82.08%		
60) toluene-d8 (s)	11.788	98	322194	44.59	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	89.18%		
82) bromofluorobenzene (s)	14.468	95	119582	48.84	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	97.68%		

Target Compounds Qvalue

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

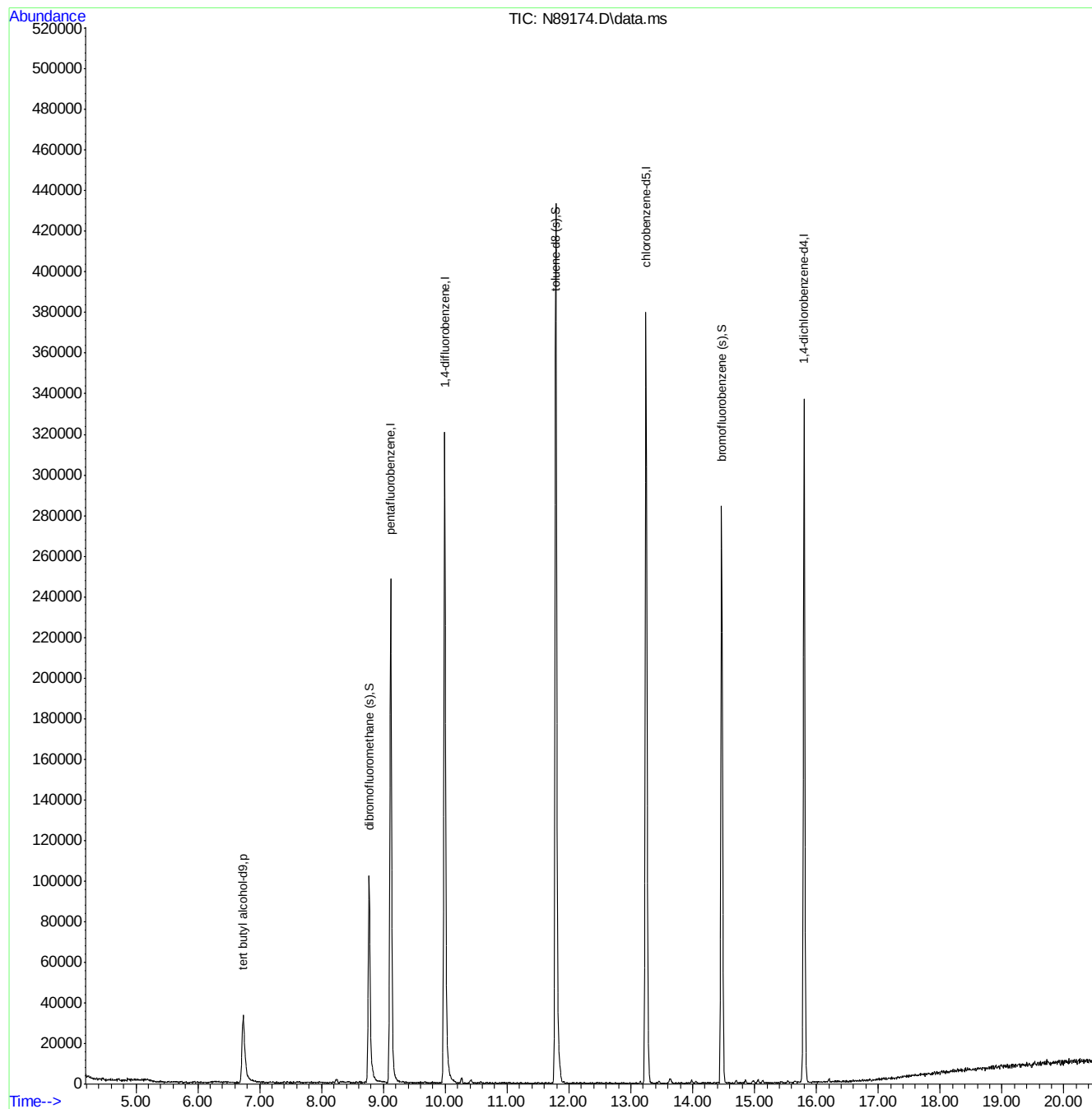
7.2.1

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140730\
Data File : N89174.D
Acq On : 30 Jul 2014 2:12 pm
Operator : krystend
Sample : mb
Misc : ms32328,MSN3307,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jul 30 14:33:48 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 14:05:07 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140731\
Data File : N89206.D
Acq On : 31 Jul 2014 12:38 pm
Operator : jaclynb
Sample : mb
Misc : ms32401,MSN3308,,,,5,1
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 31 13:03:18 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 14:05:07 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.725	65	86964	500.00	ug/L	0.03
4) pentafluorobenzene	9.119	168	209282	50.00	ug/L	0.00
43) 1,4-difluorobenzene	9.992	114	321253	50.00	ug/L	0.00
66) chlorobenzene-d5	13.244	82	163578	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.800	152	109220	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.772	113	96708	43.96	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	87.92%		
60) toluene-d8 (s)	11.788	98	390886	46.78	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	93.56%		
82) bromofluorobenzene (s)	14.468	95	145061	48.17	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	96.34%		

Target Compounds Qvalue

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

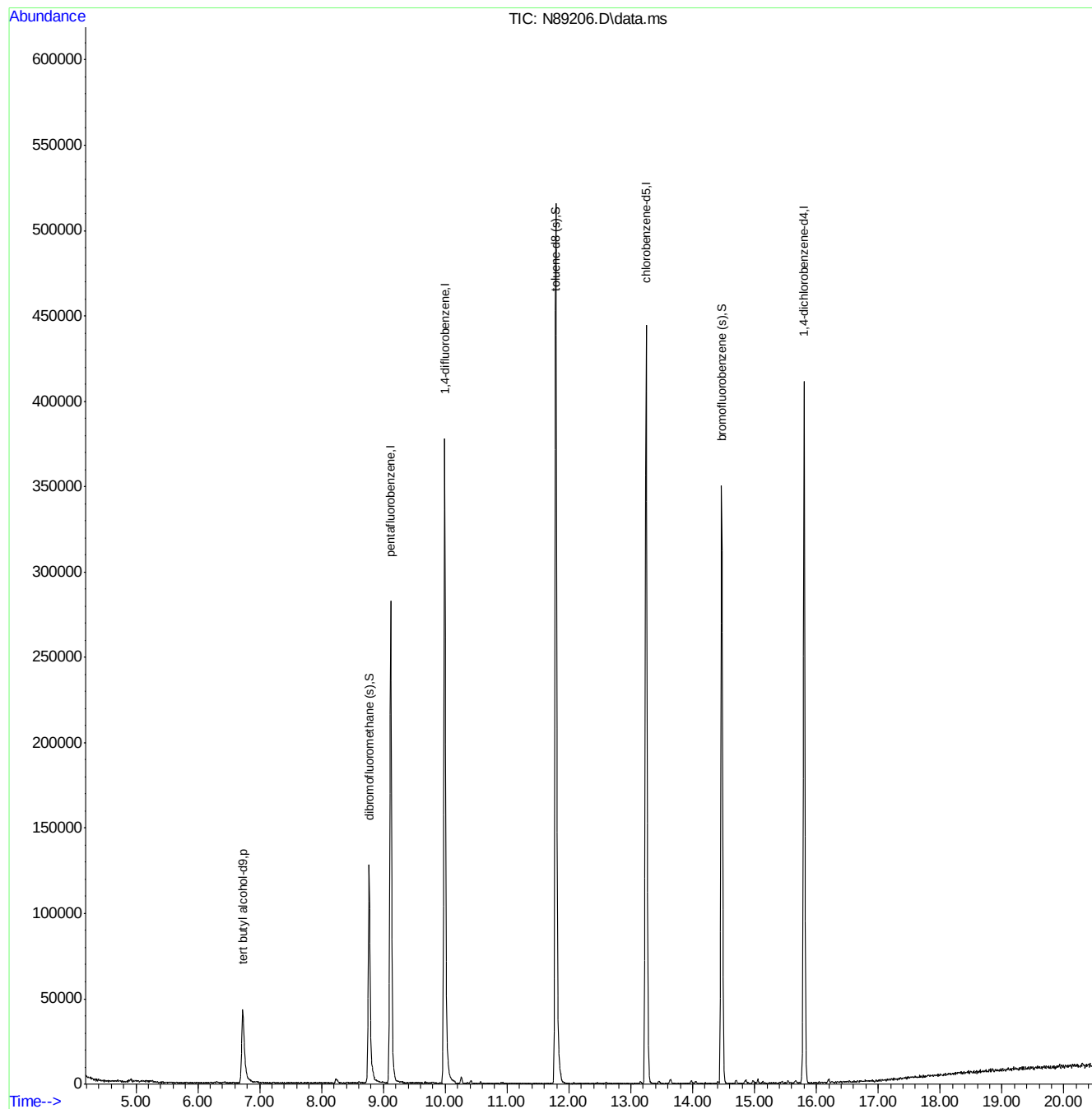
7.2.2

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140731\
Data File : N89206.D
Acq On : 31 Jul 2014 12:38 pm
Operator : jaclynb
Sample : mb
Misc : ms32401,MSN3308,,,,5,1
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 31 13:03:18 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 14:05:07 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140730\
 Data File : N89172.D
 Acq On : 30 Jul 2014 1:16 pm
 Operator : krystend
 Sample : bs
 Misc : ms32328,MSN3307,,,,5,1
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 30 14:05:48 2014
 Quant Method : C:\msdchem\1\methods\n140729w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Wed Jul 30 14:05:07 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.697	65	84762	500.00	ug/L	0.00
4) pentafluorobenzene	9.118	168	231223	50.00	ug/L	0.00
43) 1,4-difluorobenzene	9.988	114	357126	50.00	ug/L	0.00
66) chlorobenzene-d5	13.241	82	182108	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.797	152	149529	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.765	113	99608	40.98	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	81.96%		
60) toluene-d8 (s)	11.784	98	415104	44.69	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	89.38%		
82) bromofluorobenzene (s)	14.467	95	161358	39.14	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	78.28%		
Target Compounds						
					Qvalue	
2) tertiary butyl alcohol	6.782	59	146900	487.87	ug/L	# 100
3) Ethanol	5.558	45	225695m	5541.39	ug/L	
5) dichlorodifluoromethane	4.381	85	116377	44.64	ug/L	100
6) chloromethane	4.643	50	184732	48.74	ug/L	99
7) vinyl chloride	4.887	62	134000	50.93	ug/L	98
8) bromomethane	5.389	96	89098	53.72	ug/L	100
9) chloroethane	5.555	64	89947	43.89	ug/L	99
10) ethyl ether	6.428	59	136180	52.40	ug/L	99
11) acetonitrile	6.425	41	18236	50.02	ug/L	97
12) trichlorofluoromethane	6.198	101	178221	54.36	ug/L	99
13) freon-113	6.962	101	98682	56.97	ug/L	99
14) acrolein	6.198	56	81676	648.38	ug/L	100
15) 1,1-dichloroethene	6.782	96	98790	45.46	ug/L	93
16) acetone	6.333	58	15809	50.26	ug/L	98
17) Methyl Acetate	6.962	43	104917	53.83	ug/L	99
18) methylene chloride	6.937	84	126741	49.37	ug/L	99
19) methyl tert butyl ether	7.704	73	325696	57.44	ug/L	100
20) acrylonitrile	6.842	53	52936	53.62	ug/L	97
21) allyl chloride	7.026	41	211312	51.39	ug/L	99
22) trans-1,2-dichloroethene	7.616	96	122900	52.67	ug/L	99
23) iodomethane	6.852	142	90790	63.29	ug/L	99
24) carbon disulfide	7.220	76	342147	60.02	ug/L	99
25) propionitrile	6.845	54	1794	51.46	ug/L	100
26) vinyl acetate	7.973	43	214365	88.86	ug/L	100
27) chloroprene	8.231	53	226354	45.44	ug/L	97
28) di-isopropyl ether	8.263	45	601346	55.13	ug/L	97
29) methacrylonitrile	8.401	41	75291	47.88	ug/L	96
30) 2-butanone	8.288	72	11966	57.27	ug/L	# 37
31) Hexane	8.249	41	208894	61.73	ug/L	89
32) 1,1-dichloroethane	7.874	63	312621	51.40	ug/L	99
33) tert-butyl ethyl ether	8.659	59	347644	42.12	ug/L	99
34) isobutyl alcohol	8.259	43	431749	289.43	ug/L	96
35) 2,2-dichloropropane	8.730	77	175996	63.90	ug/L	100
36) cis-1,2-dichloroethene	8.440	96	143267	52.28	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140730\
 Data File : N89172.D
 Acq On : 30 Jul 2014 1:16 pm
 Operator : krystend
 Sample : bs
 Misc : ms32328,MSN3307,,,,5,1
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 30 14:05:48 2014
 Quant Method : C:\msdchem\1\methods\n140729w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Wed Jul 30 14:05:07 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) ethyl acetate	8.259	43	431749	57.88	ug/L	98
38) bromochloromethane	8.613	128	60773	52.07	ug/L	99
39) chloroform	8.645	83	252152	54.12	ug/L	98
41) Tetrahydrofuran	8.981	42	39750	54.55	ug/L	98
42) 1,1,1-trichloroethane	9.394	97	216625	57.05	ug/L	99
44) Cyclohexane	9.674	56	288541	58.55	ug/L	100
45) carbon tetrachloride	9.758	117	152102	56.34	ug/L	94
46) 1,1-dichloropropene	9.567	75	180896	54.76	ug/L	98
47) benzene	9.794	78	533556	52.19	ug/L	97
48) 1,2-dichloroethane	9.299	62	224154	53.01	ug/L	100
49) tert-amyl methyl ether	9.907	73	219856	44.15	ug/L	99
50) heptane	10.257	43	168836	66.16	ug/L	97
51) trichloroethene	10.409	95	156914	50.02	ug/L	99
52) 1,2-dichloropropane	10.377	63	194342	57.38	ug/L	100
53) dibromomethane	10.356	93	79173	52.82	ug/L	98
54) bromodichloromethane	10.465	83	196522	53.49	ug/L	99
55) Methylcyclohexane	10.922	83	215854	58.75	ug/L	97
56) 2-chloroethyl vinyl ether	10.377	63	194342	55.11	ug/L #	100
57) methyl methacrylate	10.554	69	75057	54.39	ug/L	98
58) 1,4-dioxane	10.561	88	6034	274.48	ug/L	91
59) cis-1,3-dichloropropene	11.081	75	213032	53.42	ug/L	98
61) 4-methyl-2-pentanone	11.173	43	148044	52.49	ug/L	99
62) toluene	11.858	92	329869	52.27	ug/L	98
63) trans-1,3-dichloropropene	11.498	75	158198	49.28	ug/L	99
64) 1,1,2-trichloroethane	11.671	83	104060	53.99	ug/L	99
65) ethyl methacrylate	11.869	69	141741	57.96	ug/L	99
67) tetrachloroethene	12.594	166	126437	56.12	ug/L	95
68) 1,3-dichloropropane	11.908	76	202240	53.16	ug/L	99
69) dibromochloromethane	12.194	129	129703	52.42	ug/L	99
70) 1,2-dibromoethane	12.449	107	110226	54.15	ug/L	98
71) 2-hexanone	12.028	43	98774	55.85	ug/L	100
72) chlorobenzene	13.276	112	341486	51.57	ug/L	99
73) 1,1,1,2-tetrachloroethane	13.195	131	130126	55.07	ug/L	97
74) ethylbenzene	13.446	91	650034	51.92	ug/L	99
75) m,p-xylene	13.633	106	456482	104.50	ug/L	99
76) o-xylene	14.047	106	227892	50.59	ug/L	99
77) styrene	13.972	104	369541	50.81	ug/L	98
78) bromoform	13.803	173	79352	51.38	ug/L	98
79) trans-1,4-dichloro-2-b...	14.195	53	20543	62.24	ug/L #	79
81) isopropylbenzene	14.404	105	582706	46.60	ug/L	98
83) bromobenzene	14.697	156	141242	48.29	ug/L	99
84) 1,1,2,2-tetrachloroethane	14.047	83	146918	50.87	ug/L	99
85) 1,2,3-trichloropropane	14.195	75	140146	52.19	ug/L	97
86) n-propylbenzene	14.849	91	783077	51.22	ug/L	98
87) 2-chlorotoluene	14.973	91	477307	47.08	ug/L	97
88) 4-chlorotoluene	15.047	91	494890	48.17	ug/L	100
89) 1,3,5-trimethylbenzene	15.125	105	561236	49.56	ug/L	99
90) tert-butylbenzene	15.429	91	352660	49.86	ug/L	99
91) 1,2,4-trimethylbenzene	15.535	105	556798	51.40	ug/L	98
92) sec-butylbenzene	15.652	105	704980	51.10	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140730\
Data File : N89172.D
Acq On : 30 Jul 2014 1:16 pm
Operator : krystend
Sample : bs
Misc : ms32328,MSN3307,,,,5,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 30 14:05:48 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 14:05:07 2014
Response via : Initial Calibration

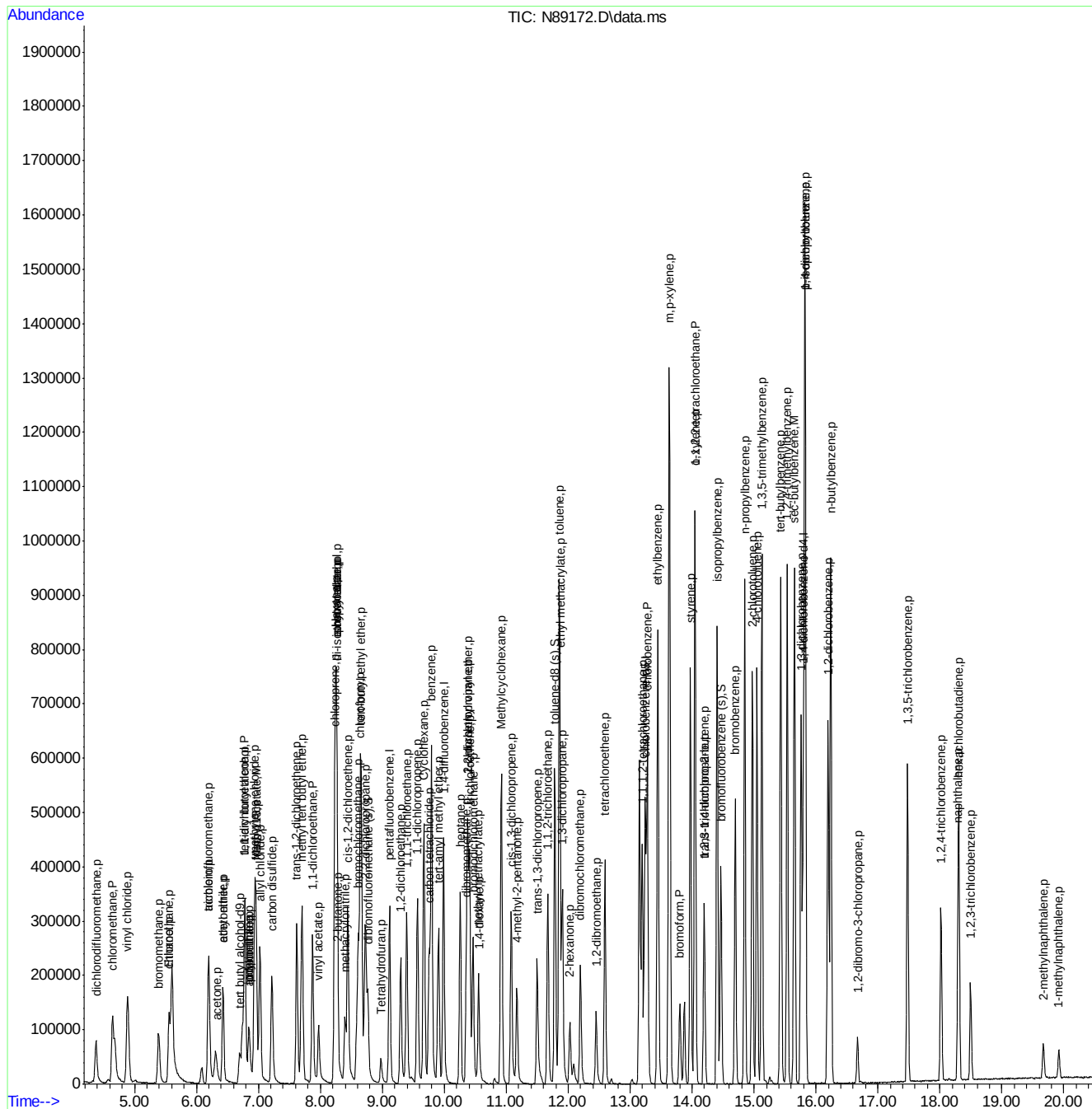
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,3-dichlorobenzene	15.761	146	277420	49.84	ug/L	99
94) p-isopropyltoluene	15.821	119	569832	53.48	ug/L	99
95) 1,4-dichlorobenzene	15.825	146	261862	50.99	ug/L	98
96) 1,2-dichlorobenzene	16.193	146	274845	53.95	ug/L	96
97) n-butylbenzene	16.239	91	601262	55.22	ug/L	99
98) 1,2-dibromo-3-chloropr...	16.670	75	24837	51.85	ug/L	84
99) 1,2,4-trichlorobenzene	18.017	180	106679	60.41	ug/L	99
100) 1,3,5-trichlorobenzene	17.480	180	187944	55.06	ug/L	99
101) hexachlorobutadiene	18.307	225	95563	53.13	ug/L	97
102) naphthalene	18.293	128	98685	54.69	ug/L	100
103) 1,2,3-trichlorobenzene	18.498	180	61575	60.39	ug/L	98
104) 2-methylnaphthalene	19.671	142	35479	27.14	ug/L #	100
105) 1-methylnaphthalene	19.915	142	29629	27.53	ug/L #	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140730\
Data File : N89172.D
Acq On : 30 Jul 2014 1:16 pm
Operator : krystend
Sample : bs
Misc : ms32328,MSN3307,,,5,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 30 14:05:48 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 14:05:07 2014
Response via : Initial Calibration



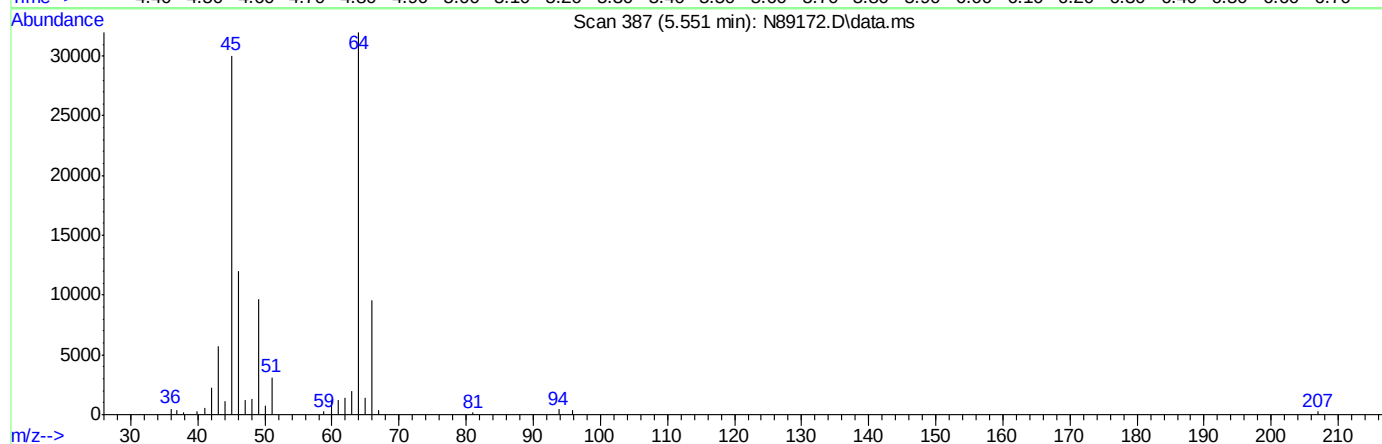
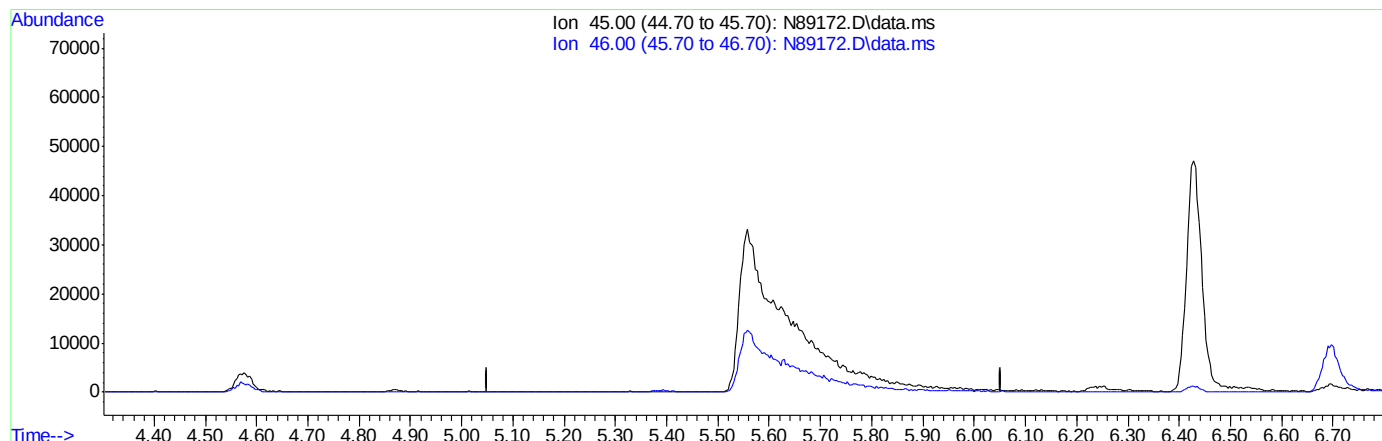
n140729w.m Wed Jul 30 14:09:45 2014

Page: 4

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140730\
Data File : N89172.D
Acq On : 30 Jul 2014 1:16 pm
Operator : krystend
Sample : bs
Misc : ms32328,MSN3307,,,,5,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 30 13:58:44 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 12:02:51 2014
Response via : Initial Calibration



TIC: N89172.D\data.ms

(3) Ethanol (p)

5.552min (-5.552) 0.00ug/L

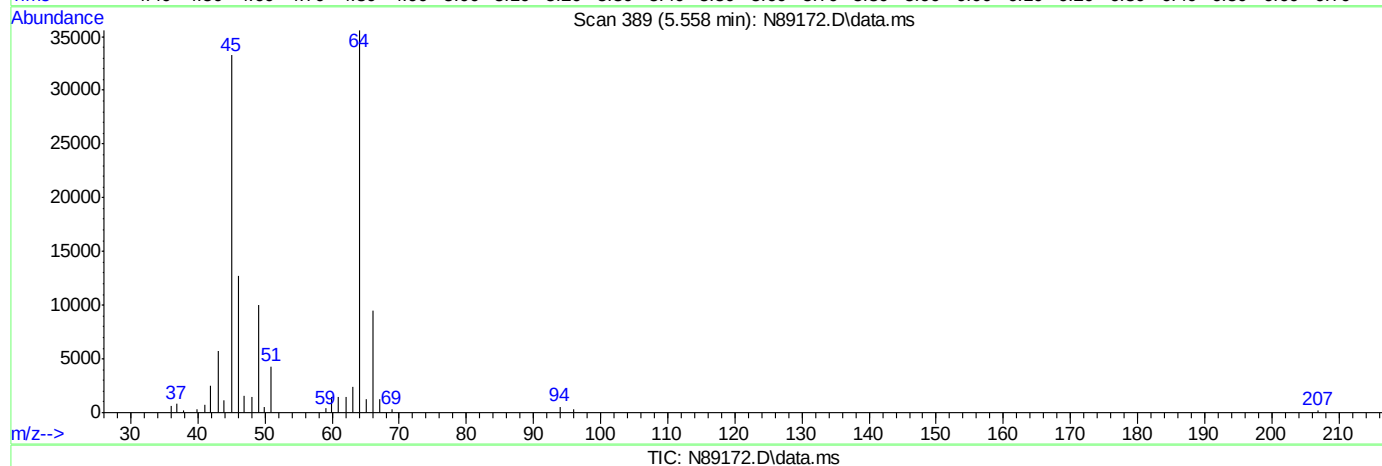
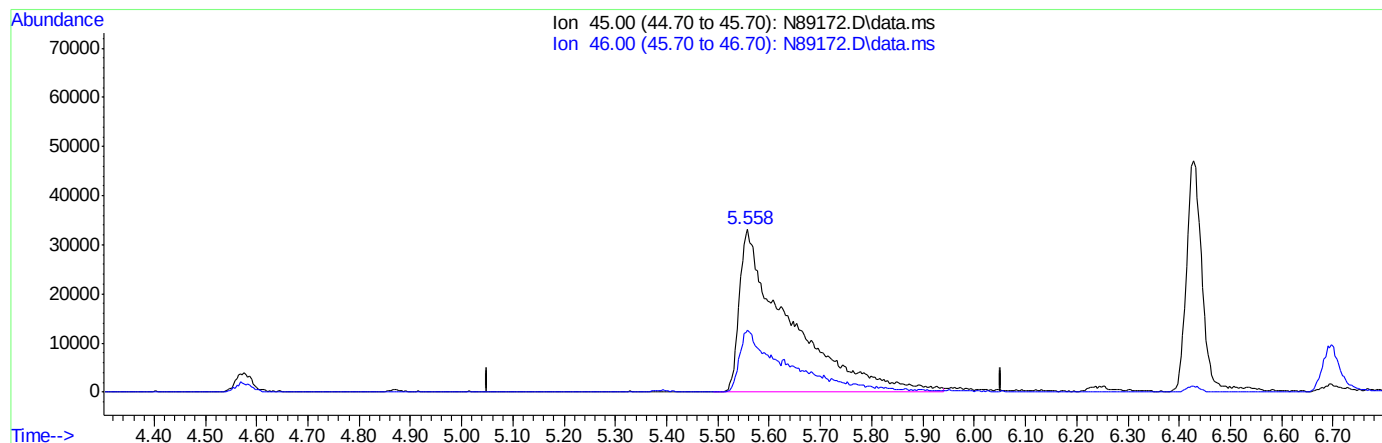
response 0

Ion	Exp%	Act%
45.00	100	0.00
46.00	36.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140730\
Data File : N89172.D
Acq On : 30 Jul 2014 1:16 pm
Operator : krystend
Sample : bs
Misc : ms32328,MSN3307,,,,5,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 30 13:58:44 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 12:02:51 2014
Response via : Initial Calibration



(3) Ethanol (p)

5.558min (+0.006) 5511.69ug/L m

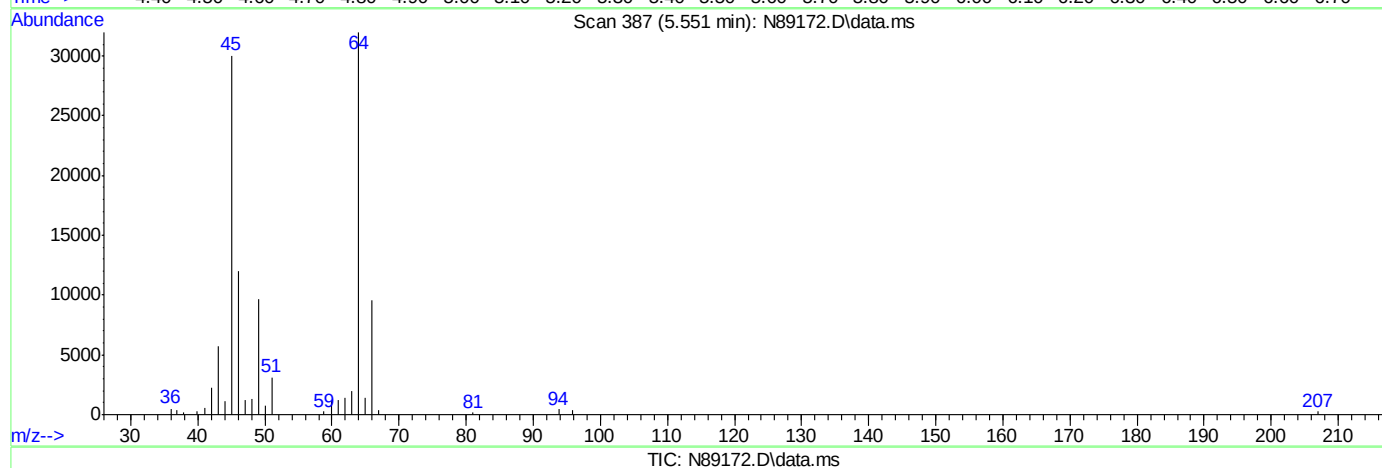
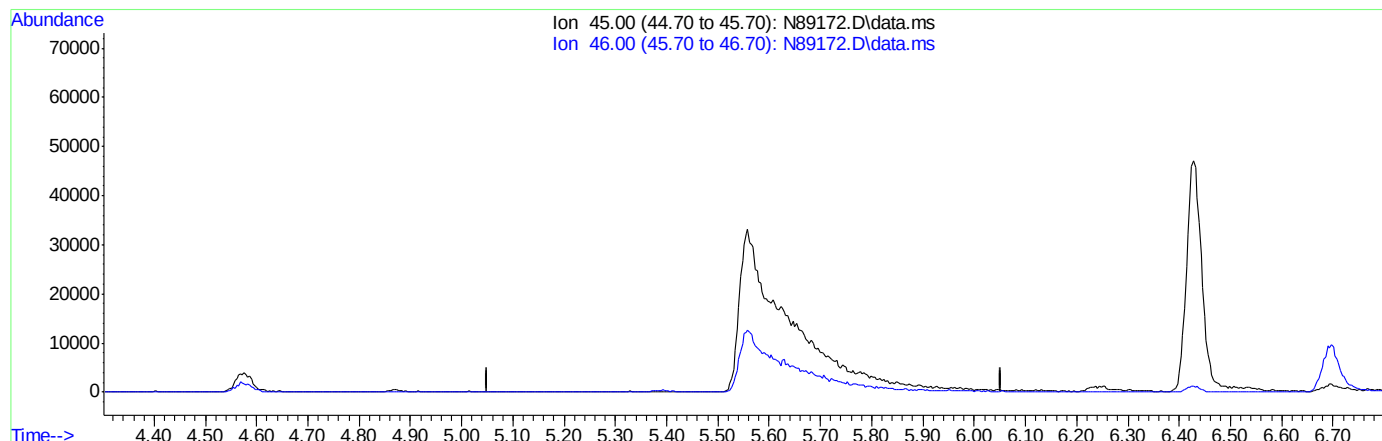
response 224485

Ion	Exp%	Act%
45.00	100	100
46.00	36.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140730\
Data File : N89172.D
Acq On : 30 Jul 2014 1:16 pm
Operator : krystend
Sample : bs
Misc : ms32328,MSN3307,,,,5,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 30 14:05:35 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 14:05:07 2014
Response via : Initial Calibration



(3) Ethanol (p)

5.552min (-5.552) 0.00ug/L

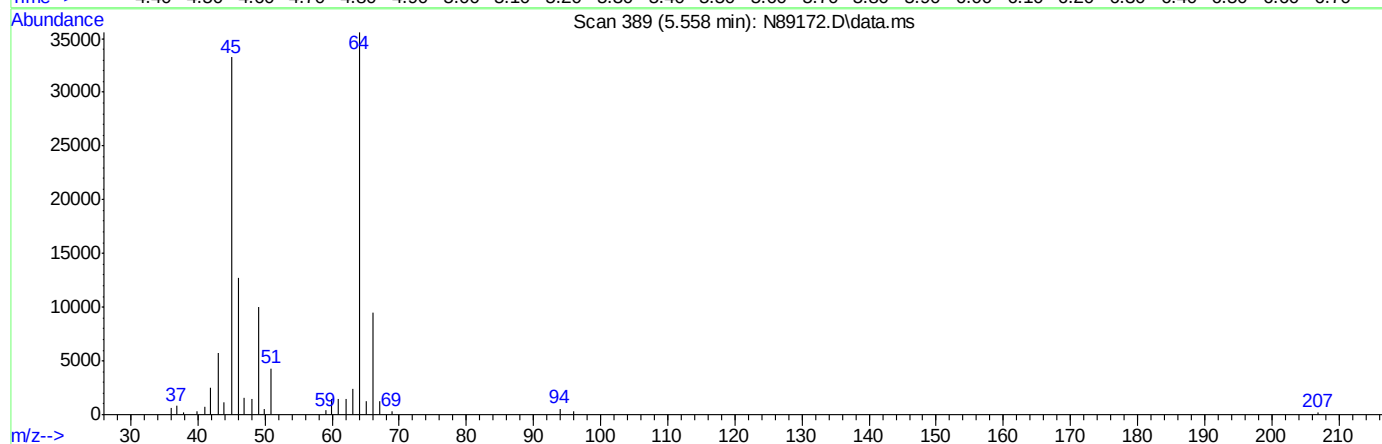
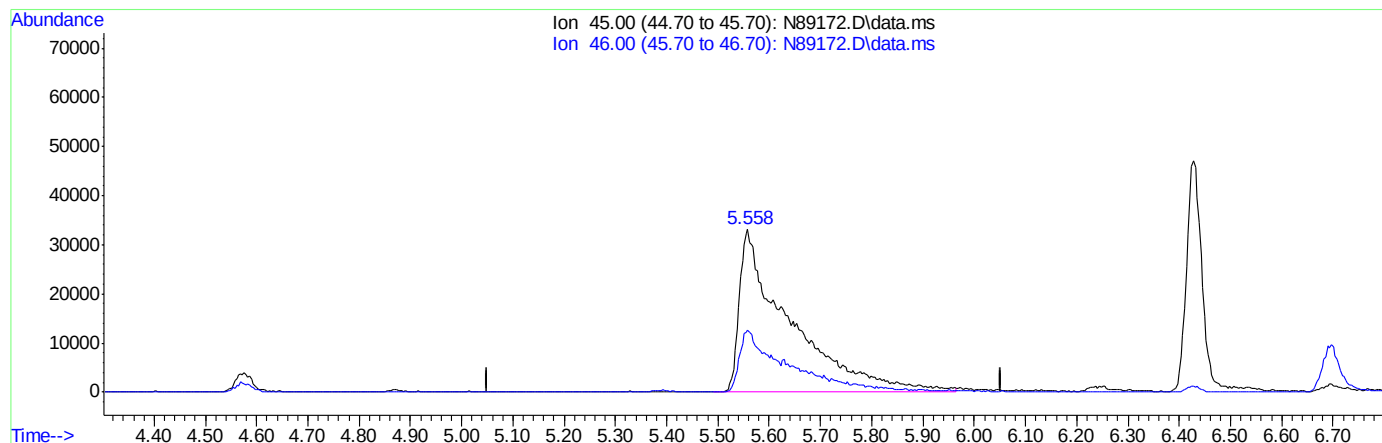
response 0

Ion	Exp%	Act%
45.00	100	0.00
46.00	36.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140730\
Data File : N89172.D
Acq On : 30 Jul 2014 1:16 pm
Operator : krystend
Sample : bs
Misc : ms32328,MSN3307,,,,5,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 30 14:05:35 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 14:05:07 2014
Response via : Initial Calibration



(3) Ethanol (p)

5.558min (+0.006) 5541.39ug/L m

response 225695

Ion	Exp%	Act%
45.00	100	100
46.00	36.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140731\
 Data File : N89203.D
 Acq On : 31 Jul 2014 11:16 am
 Operator : jaclynb
 Sample : bs
 Misc : ms32401,MSN3308,,,,5,1
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 31 11:40:36 2014
 Quant Method : C:\msdchem\1\methods\n140729w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Wed Jul 30 14:05:07 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.697	65	80925	500.00	ug/L	0.00
4) pentafluorobenzene	9.115	168	237187	50.00	ug/L	0.00
43) 1,4-difluorobenzene	9.992	114	369681	50.00	ug/L	0.00
66) chlorobenzene-d5	13.244	82	190939	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.797	152	154716	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.765	113	108087	43.35	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	86.70%		
60) toluene-d8 (s)	11.784	98	455819	47.41	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	94.82%		
82) bromofluorobenzene (s)	14.464	95	179554	42.09	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	84.18%		
Target Compounds						
					Qvalue	
2) tertiary butyl alcohol	6.782	59	145678	506.75	ug/L	# 100
3) Ethanol	5.555	45	223944m	5759.11	ug/L	
5) dichlorodifluoromethane	4.381	85	155812	58.26	ug/L	99
6) chloromethane	4.643	50	209082	53.77	ug/L	100
7) vinyl chloride	4.883	62	166024	61.51	ug/L	100
8) bromomethane	5.389	96	95178	55.94	ug/L	99
9) chloroethane	5.558	64	104931	49.91	ug/L	99
10) ethyl ether	6.428	59	145044	54.41	ug/L	95
12) trichlorofluoromethane	6.195	101	247622	73.63	ug/L	98
13) freon-113	6.962	101	130260	86.19	ug/L	96
14) acrolein	6.195	56	95799	741.38	ug/L	100
15) 1,1-dichloroethene	6.782	96	126144	56.59	ug/L	96
16) acetone	6.329	58	14538	44.40	ug/L	88
17) Methyl Acetate	6.958	43	100690	50.36	ug/L	98
18) methylene chloride	6.941	84	141982	53.91	ug/L	98
19) methyl tert butyl ether	7.704	73	330248	56.78	ug/L	98
20) acrylonitrile	6.842	53	54901	54.22	ug/L	97
21) allyl chloride	7.026	41	238420	56.42	ug/L	99
22) trans-1,2-dichloroethene	7.620	96	140661	58.77	ug/L	94
23) iodomethane	6.852	142	107146	72.82	ug/L	98
24) carbon disulfide	7.217	76	405312	69.31	ug/L	99
25) propionitrile	6.845	54	1579	45.03	ug/L	100
26) vinyl acetate	7.970	43	253578	99.99	ug/L	99
27) chloroprene	8.231	53	269808	52.80	ug/L	95
28) di-isopropyl ether	8.263	45	637136	56.94	ug/L	98
29) methacrylonitrile	8.394	41	78303	48.54	ug/L	98
30) 2-butanone	8.284	72	12442	58.05	ug/L	# 94
31) Hexane	8.245	41	239459m	68.98	ug/L	
32) 1,1-dichloroethane	7.874	63	343472	55.02	ug/L	98
33) tert-butyl ethyl ether	8.659	59	338473	40.42	ug/L	96
34) isobutyl alcohol	8.259	43	468945	306.46	ug/L	94
35) 2,2-dichloropropane	8.730	77	213850	72.92	ug/L	99
36) cis-1,2-dichloroethene	8.440	96	157333	55.96	ug/L	96
37) ethyl acetate	8.259	43	468945	61.29	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140731\
 Data File : N89203.D
 Acq On : 31 Jul 2014 11:16 am
 Operator : jaclynb
 Sample : bs
 Misc : ms32401,MSN3308,,,5,1
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 31 11:40:36 2014
 Quant Method : C:\msdchem\1\methods\n140729w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Wed Jul 30 14:05:07 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
38) bromochloromethane	8.613	128	65281	54.53	ug/L	93
39) chloroform	8.645	83	279477	58.48	ug/L	97
41) Tetrahydrofuran	8.977	42	38503	51.51	ug/L	93
42) 1,1,1-trichloroethane	9.394	97	252367	64.00	ug/L	100
44) Cyclohexane	9.670	56	372216	72.97	ug/L	99
45) carbon tetrachloride	9.755	117	197337	68.92	ug/L	99
46) 1,1-dichloropropene	9.564	75	218015	63.75	ug/L	98
47) benzene	9.794	78	592966	56.03	ug/L	96
48) 1,2-dichloroethane	9.295	62	236710	54.08	ug/L	100
49) tert-amyl methyl ether	9.907	73	226095	43.86	ug/L	100
50) heptane	10.257	43	209284	79.23	ug/L	96
51) trichloroethene	10.409	95	176977	54.50	ug/L	98
52) 1,2-dichloropropane	10.377	63	212882	60.72	ug/L	100
53) dibromomethane	10.356	93	84791	54.65	ug/L	96
54) bromodichloromethane	10.465	83	217410	57.17	ug/L	99
55) Methylcyclohexane	10.922	83	276165	72.61	ug/L	98
56) 2-chloroethyl vinyl ether	10.377	63	212882	58.32	ug/L #	99
57) methyl methacrylate	10.550	69	79877	55.92	ug/L	94
58) 1,4-dioxane	10.561	88	6428	282.19	ug/L	97
59) cis-1,3-dichloropropene	11.081	75	235014	56.70	ug/L	100
61) 4-methyl-2-pentanone	11.173	43	145877	49.97	ug/L	98
62) toluene	11.858	92	366425	56.09	ug/L	91
63) trans-1,3-dichloropropene	11.498	75	178296	53.63	ug/L	97
64) 1,1,2-trichloroethane	11.671	83	114426	57.36	ug/L	100
65) ethyl methacrylate	11.869	69	151422	59.82	ug/L	97
67) tetrachloroethene	12.594	166	149671	63.36	ug/L	98
68) 1,3-dichloropropane	11.908	76	219232	54.96	ug/L	98
69) dibromochloromethane	12.194	129	143191	55.04	ug/L	99
70) 1,2-dibromoethane	12.452	107	117957	55.27	ug/L	97
71) 2-hexanone	12.025	43	98334	53.03	ug/L	99
72) chlorobenzene	13.276	112	382092	55.03	ug/L	99
73) 1,1,1,2-tetrachloroethane	13.195	131	145621	58.77	ug/L	99
74) ethylbenzene	13.446	91	740621	56.42	ug/L	99
75) m,p-xylene	13.633	106	515679	112.60	ug/L	98
76) o-xylene	14.043	106	255344	54.06	ug/L	99
77) styrene	13.972	104	417684	54.77	ug/L	98
78) bromoform	13.803	173	85224	52.60	ug/L	98
79) trans-1,4-dichloro-2-b...	14.192	53	21814	62.80	ug/L #	71
81) isopropylbenzene	14.404	105	674664	52.15	ug/L	99
83) bromobenzene	14.697	156	155295	51.31	ug/L	99
84) 1,1,2,2-tetrachloroethane	14.050	83	151000	50.53	ug/L	98
85) 1,2,3-trichloropropane	14.195	75	147243	52.99	ug/L	97
86) n-propylbenzene	14.849	91	898120	56.77	ug/L	100
87) 2-chlorotoluene	14.973	91	540797	51.55	ug/L	100
88) 4-chlorotoluene	15.047	91	556855	52.39	ug/L	99
89) 1,3,5-trimethylbenzene	15.125	105	627365	53.54	ug/L	98
90) tert-butylbenzene	15.433	91	405948	55.47	ug/L	99
91) 1,2,4-trimethylbenzene	15.535	105	620570	55.36	ug/L	99
92) sec-butylbenzene	15.652	105	823387	57.68	ug/L	99
93) 1,3-dichlorobenzene	15.761	146	306518	53.23	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140731\
 Data File : N89203.D
 Acq On : 31 Jul 2014 11:16 am
 Operator : jaclynb
 Sample : bs
 Misc : ms32401,MSN3308,,,,5,1
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 31 11:40:36 2014
 Quant Method : C:\msdchem\1\methods\n140729w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Wed Jul 30 14:05:07 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) p-isopropyltoluene	15.821	119	654766	59.39	ug/L	99
95) 1,4-dichlorobenzene	15.825	146	289807	54.54	ug/L	99
96) 1,2-dichlorobenzene	16.193	146	296368	56.22	ug/L	96
97) n-butylbenzene	16.239	91	700419	61.92	ug/L	98
98) 1,2-dibromo-3-chloropr...	16.670	75	24589	49.81	ug/L	99
99) 1,2,4-trichlorobenzene	18.020	180	125313	66.57	ug/L	98
100) 1,3,5-trichlorobenzene	17.476	180	207544	58.63	ug/L	98
101) hexachlorobutadiene	18.307	225	114404	60.98	ug/L	100
102) naphthalene	18.293	128	120100	61.00	ug/L	100
103) 1,2,3-trichlorobenzene	18.498	180	76512	68.27	ug/L	98
104) 2-methylnaphthalene	19.671	142	38501	28.47	ug/L #	100
105) 1-methylnaphthalene	19.919	142	30996	27.84	ug/L #	100

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

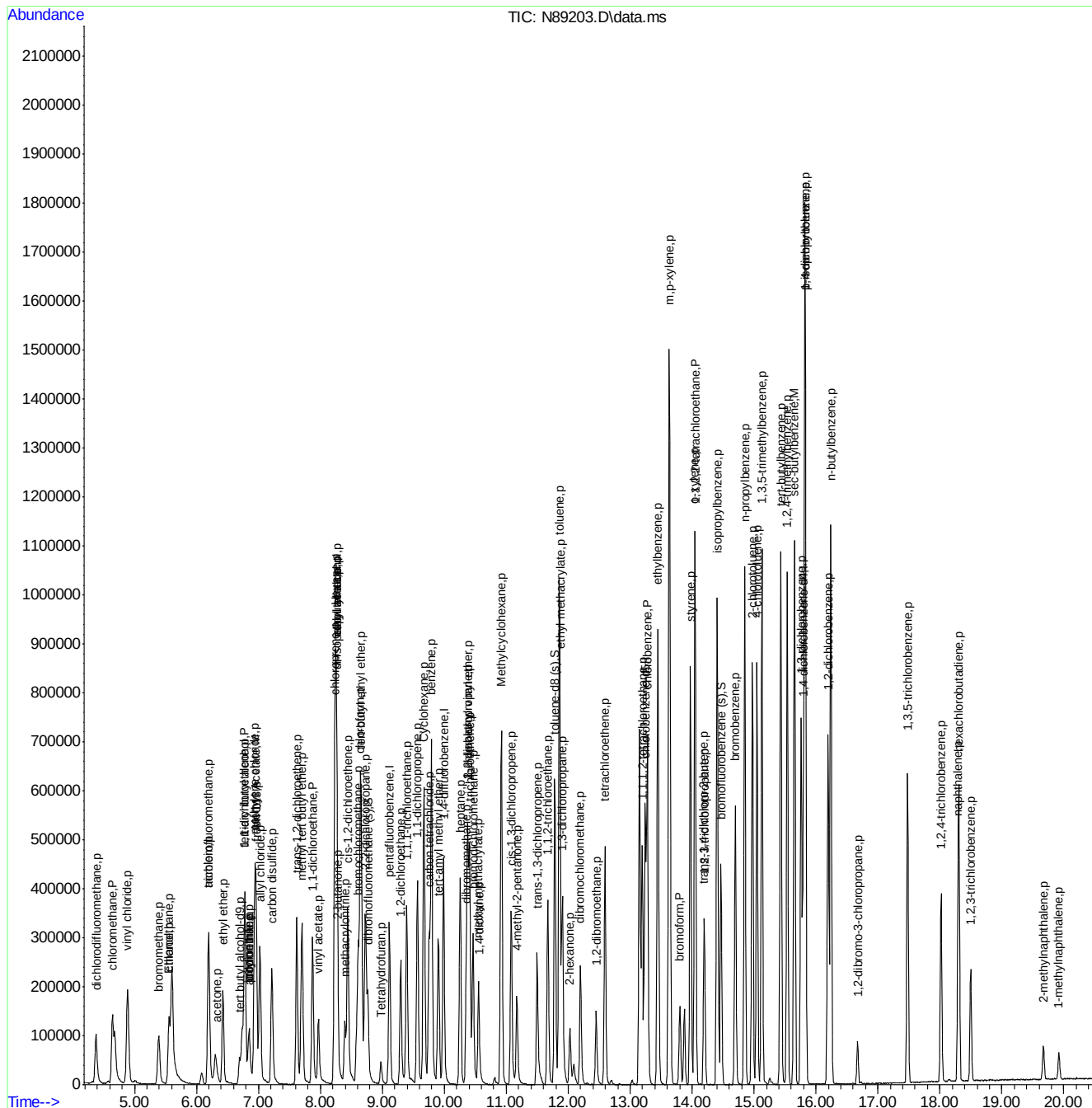
7.3.2

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140731\
Data File : N89203.D
Acq On : 31 Jul 2014 11:16 am
Operator : jaclynb
Sample : bs
Misc : ms32401,MSN3308,,,5,1
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jul 31 11:40:36 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 14:05:07 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140730\
 Data File : N89193.D
 Acq On : 30 Jul 2014 11:02 pm
 Operator : krystend
 Sample : mc32218-2ms
 Misc : ms32401,MSN3307,,,,5,1
 ALS Vial : 38 Sample Multiplier: 1

Quant Time: Jul 31 08:52:45 2014
 Quant Method : C:\msdchem\1\methods\n140729w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Wed Jul 30 14:05:07 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.693	65	71689	500.00	ug/L	0.00
4) pentafluorobenzene	9.115	168	204434	50.00	ug/L	0.00
43) 1,4-difluorobenzene	9.988	114	323230	50.00	ug/L	0.00
66) chlorobenzene-d5	13.241	82	174829	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.797	152	139655	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.769	113	97696	45.46	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	90.92%		
60) toluene-d8 (s)	11.784	98	403945	48.05	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	96.10%		
82) bromofluorobenzene (s)	14.468	95	158232	41.09	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	82.18%		
Target Compounds						
					Qvalue	
2) tertiary butyl alcohol	6.782	59	141768	556.68	ug/L	# 100
5) dichlorodifluoromethane	4.381	85	129014	55.97	ug/L	94
6) chloromethane	4.643	50	210925	62.94	ug/L	98
7) vinyl chloride	4.883	62	142344	61.19	ug/L	99
8) bromomethane	5.389	96	85149	58.06	ug/L	93
9) chloroethane	5.562	64	95912	52.93	ug/L	98
10) ethyl ether	6.425	59	134187	58.40	ug/L	99
12) trichlorofluoromethane	6.195	101	208665	71.98	ug/L	100
13) freon-113	6.962	101	105543	76.34	ug/L	96
14) acrolein	6.195	56	79743	715.99	ug/L	100
15) 1,1-dichloroethene	6.778	96	106129	55.24	ug/L	96
16) acetone	6.326	58	15338	55.76	ug/L	# 1
17) Methyl Acetate	6.959	43	100029	58.04	ug/L	98
18) methylene chloride	6.937	84	135149	59.54	ug/L	98
19) methyl tert butyl ether	7.701	73	315812	63.00	ug/L	100
20) acrylonitrile	6.842	53	53672	61.49	ug/L	91
21) allyl chloride	7.022	41	225836	61.90	ug/L	98
22) trans-1,2-dichloroethene	7.620	96	129660	62.85	ug/L	94
23) iodomethane	6.849	142	112556	88.75	ug/L	99
24) carbon disulfide	7.217	76	356662	70.76	ug/L	98
25) propionitrile	6.835	54	1787	57.20	ug/L	100
26) vinyl acetate	7.966	43	228064	103.56	ug/L	96
27) chloroprene	8.231	53	236687	53.74	ug/L	99
28) di-isopropyl ether	8.260	45	647208	67.10	ug/L	97
29) methacrylonitrile	8.397	41	77956	56.07	ug/L	98
30) 2-butanone	8.281	72	11672	63.18	ug/L	# 34
31) Hexane	8.249	41	223373	74.66	ug/L	100
32) 1,1-dichloroethane	7.874	63	318788	59.21	ug/L	98
33) tert-butyl ethyl ether	8.659	59	265157	37.52	ug/L	98
34) isobutyl alcohol	8.260	43	453125	343.56	ug/L	100
35) 2,2-dichloropropane	8.726	77	171704	69.00	ug/L	99
36) cis-1,2-dichloroethene	8.440	96	147285	60.78	ug/L	99
37) ethyl acetate	8.260	43	453125	68.71	ug/L	99
38) bromochloromethane	8.613	128	61782	59.87	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140730\
 Data File : N89193.D
 Acq On : 30 Jul 2014 11:02 pm
 Operator : krystend
 Sample : mc32218-2ms
 Misc : ms32401,MSN3307,,,,5,1
 ALS Vial : 38 Sample Multiplier: 1

Quant Time: Jul 31 08:52:45 2014
 Quant Method : C:\msdchem\1\methods\n140729w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Wed Jul 30 14:05:07 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) chloroform	8.645	83	258497	62.75	ug/L	98
41) Tetrahydrofuran	8.977	42	40414	62.73	ug/L	95
42) 1,1,1-trichloroethane	9.394	97	224733	65.90	ug/L	97
44) Cyclohexane	9.670	56	408023	91.48	ug/L	98
45) carbon tetrachloride	9.755	117	170115	68.06	ug/L	99
46) 1,1-dichloropropene	9.568	75	187904	62.84	ug/L	99
47) benzene	9.794	78	563088	60.85	ug/L	97
48) 1,2-dichloroethane	9.295	62	228470	59.70	ug/L	100
49) tert-amyl methyl ether	9.907	73	201801	44.77	ug/L	98
50) heptane	10.257	43	171404	74.21	ug/L	95
51) trichloroethene	10.409	95	159864	56.30	ug/L	97
52) 1,2-dichloropropane	10.377	63	195611	63.81	ug/L	100
53) dibromomethane	10.356	93	79841	58.85	ug/L	97
54) bromodichloromethane	10.466	83	200598	60.33	ug/L	98
55) Methylcyclohexane	10.922	83	231289	69.55	ug/L	97
56) 2-chloroethyl vinyl ether	10.377	63	195611	61.29	ug/L	# 100
57) methyl methacrylate	10.554	69	72437	57.99	ug/L	98
58) 1,4-dioxane	10.565	88	5525	277.57	ug/L	88
59) cis-1,3-dichloropropene	11.081	75	212050	58.40	ug/L	100
61) 4-methyl-2-pentanone	11.173	43	145780	57.11	ug/L	98
62) toluene	11.858	92	338397	59.25	ug/L	98
63) trans-1,3-dichloropropene	11.498	75	158559	54.54	ug/L	97
64) 1,1,2-trichloroethane	11.675	83	104620	59.98	ug/L	98
65) ethyl methacrylate	11.866	69	140312	63.40	ug/L	95
67) tetrachloroethene	12.597	166	131026	60.58	ug/L	97
68) 1,3-dichloropropane	11.908	76	204809	56.08	ug/L	100
69) dibromochloromethane	12.198	129	131251	55.10	ug/L	97
70) 1,2-dibromoethane	12.452	107	108659	55.60	ug/L	99
71) 2-hexanone	12.032	43	94865	55.87	ug/L	99
72) chlorobenzene	13.276	112	354583	55.77	ug/L	98
73) 1,1,1,2-tetrachloroethane	13.195	131	133299	58.76	ug/L	97
74) ethylbenzene	13.449	91	681489	56.70	ug/L	100
75) m,p-xylene	13.633	106	475415	113.37	ug/L	99
76) o-xylene	14.047	106	239580	55.40	ug/L	98
77) styrene	13.973	104	383736	54.96	ug/L	99
78) bromoform	13.803	173	78446	52.87	ug/L	97
79) trans-1,4-dichloro-2-b...	14.195	53	17837	57.98	ug/L	93
81) isopropylbenzene	14.404	105	619291	53.03	ug/L	99
83) bromobenzene	14.701	156	146110	53.48	ug/L	96
84) 1,1,2,2-tetrachloroethane	14.047	83	141280	52.38	ug/L	97
85) 1,2,3-trichloropropane	14.195	75	136433	54.40	ug/L	99
86) n-propylbenzene	14.849	91	818150	57.30	ug/L	99
87) 2-chlorotoluene	14.973	91	501962	53.01	ug/L	99
88) 4-chlorotoluene	15.047	91	520934	54.29	ug/L	100
89) 1,3,5-trimethylbenzene	15.129	105	580833	54.92	ug/L	100
90) tert-butylbenzene	15.433	91	373783	56.58	ug/L	100
91) 1,2,4-trimethylbenzene	15.535	105	575464	56.87	ug/L	99
92) sec-butylbenzene	15.652	105	749677	58.18	ug/L	97
93) 1,3-dichlorobenzene	15.761	146	283736	54.58	ug/L	99
94) p-isopropyltoluene	15.822	119	588622	59.15	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140730\
Data File : N89193.D
Acq On : 30 Jul 2014 11:02 pm
Operator : krystend
Sample : mc32218-2ms
Misc : ms32401,MSN3307,,,,5,1
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Jul 31 08:52:45 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 14:05:07 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) 1,4-dichlorobenzene	15.829	146	263533	54.94	ug/L	100
96) 1,2-dichlorobenzene	16.196	146	276483	58.11	ug/L	97
97) n-butylbenzene	16.239	91	625637	61.30	ug/L	98
98) 1,2-dibromo-3-chloropr...	16.674	75	22979	51.41	ug/L	90
99) 1,2,4-trichlorobenzene	18.020	180	104154	62.50	ug/L	95
100) 1,3,5-trichlorobenzene	17.480	180	188628	59.02	ug/L	99
101) hexachlorobutadiene	18.307	225	100192	59.26	ug/L	100
102) naphthalene	18.293	128	93265	55.13	ug/L	100
103) 1,2,3-trichlorobenzene	18.498	180	61406	63.11	ug/L	98
104) 2-methylnaphthalene	19.671	142	31728	25.99	ug/L #	100
105) 1-methylnaphthalene	19.922	142	25616	25.48	ug/L #	100

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

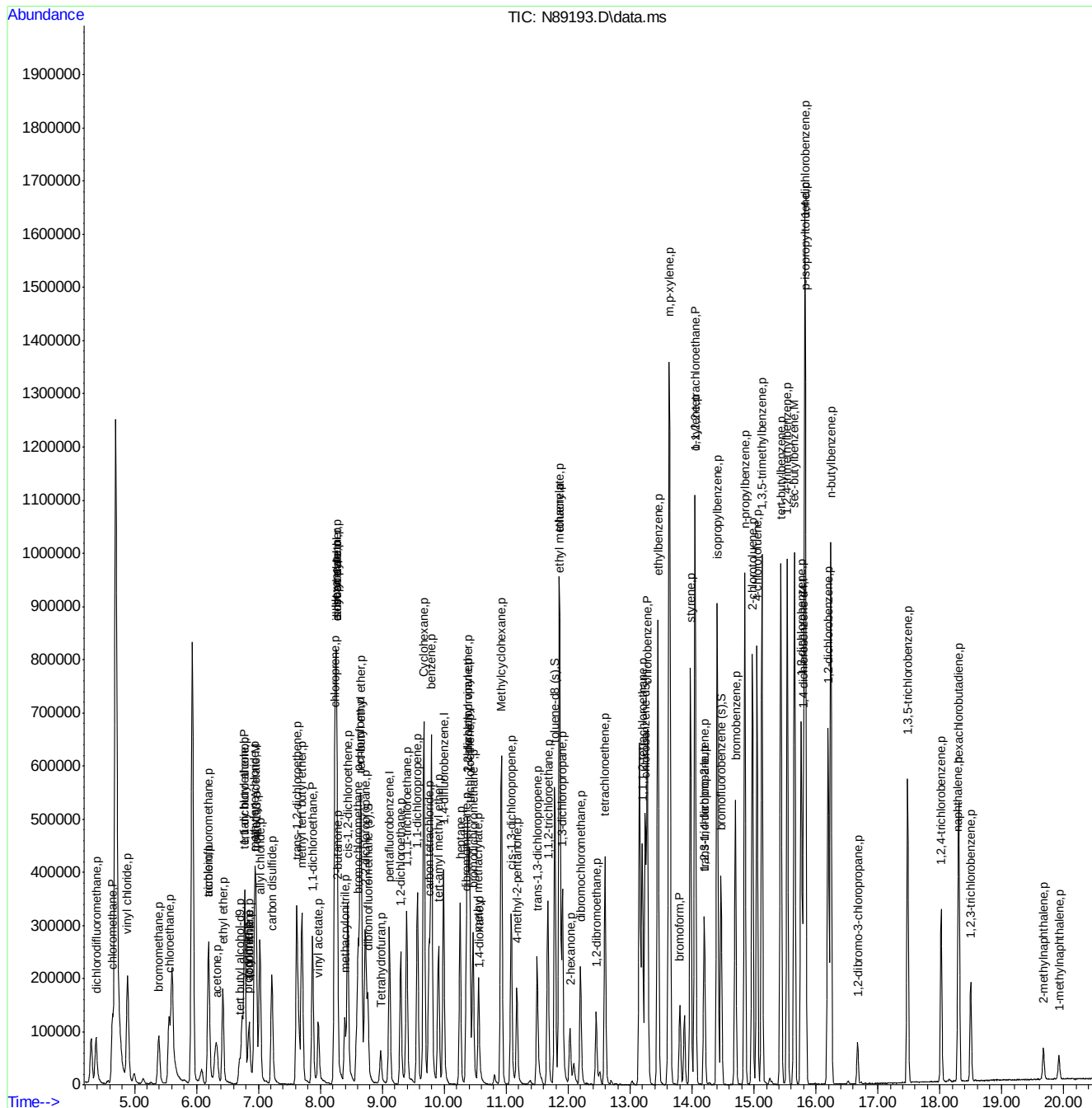
7.4.1

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Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140730\
Data File : N89193.D
Acq On : 30 Jul 2014 11:02 pm
Operator : krystend
Sample : mc32218-2ms
Misc : ms32401,MSN3307,,,,,5,1
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Jul 31 08:52:45 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 14:05:07 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140730\
 Data File : N89194.D
 Acq On : 30 Jul 2014 11:29 pm
 Operator : krystend
 Sample : mc32218-2msd
 Misc : ms32401,MSN3307,,,,5,1
 ALS Vial : 39 Sample Multiplier: 1

Quant Time: Jul 31 08:52:57 2014
 Quant Method : C:\msdchem\1\methods\n140729w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Wed Jul 30 14:05:07 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.693	65	69764	500.00	ug/L	0.00
4) pentafluorobenzene	9.115	168	213875	50.00	ug/L	0.00
43) 1,4-difluorobenzene	9.988	114	338139	50.00	ug/L	0.00
66) chlorobenzene-d5	13.244	82	169605	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.797	152	138374	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.765	113	100238	44.58	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	89.16%		
60) toluene-d8 (s)	11.784	98	416513	47.36	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	94.72%		
82) bromofluorobenzene (s)	14.467	95	159597	41.83	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	83.66%		
Target Compounds						
					Qvalue	
2) tertiary butyl alcohol	6.785	59	139670	563.58	ug/L	# 100
5) dichlorodifluoromethane	4.378	85	130142	53.97	ug/L	93
6) chloromethane	4.643	50	211292	60.27	ug/L	100
7) vinyl chloride	4.883	62	145632	59.84	ug/L	98
8) bromomethane	5.389	96	86943	56.67	ug/L	98
9) chloroethane	5.558	64	93364	49.25	ug/L	98
10) ethyl ether	6.428	59	136593	56.82	ug/L	99
12) trichlorofluoromethane	6.195	101	211376	69.70	ug/L	98
13) freon-113	6.962	101	110981	77.05	ug/L	99
14) acrolein	6.195	56	72691	623.86	ug/L	100
15) 1,1-dichloroethene	6.782	96	111630	55.54	ug/L	96
16) acetone	6.329	58	17483	61.32	ug/L	# 1
17) Methyl Acetate	6.962	43	92867	51.51	ug/L	98
18) methylene chloride	6.941	84	133336	56.15	ug/L	100
19) methyl tert butyl ether	7.701	73	276179	52.66	ug/L	99
20) acrylonitrile	6.845	53	52568	57.57	ug/L	96
21) allyl chloride	7.022	41	224829	58.95	ug/L	100
22) trans-1,2-dichloroethene	7.620	96	129854	60.17	ug/L	96
23) iodomethane	6.852	142	104260	78.58	ug/L	100
24) carbon disulfide	7.216	76	362640	68.77	ug/L	98
25) propionitrile	6.845	54	1751	53.97	ug/L	100
26) vinyl acetate	7.970	43	251372	108.09	ug/L	98
27) chloroprene	8.231	53	241358	52.38	ug/L	99
28) di-isopropyl ether	8.263	45	646833	64.10	ug/L	99
29) methacrylonitrile	8.397	41	74669	51.34	ug/L	99
30) 2-butanone	8.284	72	11742	60.76	ug/L	# 79
31) Hexane	8.245	41	221294	70.70	ug/L	# 79
32) 1,1-dichloroethane	7.874	63	324025	57.54	ug/L	98
33) tert-butyl ethyl ether	8.659	59	159452	25.29	ug/L	97
34) isobutyl alcohol	8.259	43	457473	331.55	ug/L	97
35) 2,2-dichloropropane	8.726	77	166223	64.95	ug/L	99
36) cis-1,2-dichloroethene	8.443	96	146619	57.84	ug/L	99
37) ethyl acetate	8.259	43	457473	66.31	ug/L	96
38) bromochloromethane	8.613	128	61193	56.68	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140730\
 Data File : N89194.D
 Acq On : 30 Jul 2014 11:29 pm
 Operator : krystend
 Sample : mc32218-2msd
 Misc : ms32401,MSN3307,,,,5,1
 ALS Vial : 39 Sample Multiplier: 1

Quant Time: Jul 31 08:52:57 2014
 Quant Method : C:\msdchem\1\methods\n140729w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Wed Jul 30 14:05:07 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) chloroform	8.645	83	263216	61.08	ug/L	100
41) Tetrahydrofuran	8.981	42	39359	58.40	ug/L	95
42) 1,1,1-trichloroethane	9.394	97	228025	64.11	ug/L	97
44) Cyclohexane	9.670	56	420220	90.06	ug/L	99
45) carbon tetrachloride	9.755	117	174917	67.03	ug/L	99
46) 1,1-dichloropropene	9.564	75	190422	60.88	ug/L	98
47) benzene	9.794	78	573061	59.20	ug/L	97
48) 1,2-dichloroethane	9.295	62	223413	55.81	ug/L	100
49) tert-amyl methyl ether	9.907	73	109791	23.28	ug/L	99
50) heptane	10.257	43	176921	73.22	ug/L	98
51) trichloroethene	10.409	95	160645	54.08	ug/L	98
52) 1,2-dichloropropane	10.377	63	196824	61.38	ug/L	100
53) dibromomethane	10.356	93	77897	54.89	ug/L	98
54) bromodichloromethane	10.465	83	203418	58.48	ug/L	99
55) Methylcyclohexane	10.922	83	239137	68.74	ug/L	98
56) 2-chloroethyl vinyl ether	10.377	63	196824	58.95	ug/L	# 99
57) methyl methacrylate	10.550	69	72794	55.71	ug/L	95
58) 1,4-dioxane	10.561	88	5638	271.00	ug/L	93
59) cis-1,3-dichloropropene	11.081	75	207132	54.76	ug/L	100
61) 4-methyl-2-pentanone	11.172	43	143675	53.80	ug/L	100
62) toluene	11.855	92	340945	57.06	ug/L	99
63) trans-1,3-dichloropropene	11.501	75	150982	49.67	ug/L	99
64) 1,1,2-trichloroethane	11.671	83	105327	57.72	ug/L	99
65) ethyl methacrylate	11.869	69	141455	61.09	ug/L	97
67) tetrachloroethene	12.594	166	133832	63.78	ug/L	97
68) 1,3-dichloropropane	11.908	76	201601	56.90	ug/L	99
69) dibromochloromethane	12.201	129	130604	56.44	ug/L	98
70) 1,2-dibromoethane	12.452	107	107644	56.78	ug/L	96
71) 2-hexanone	12.025	43	97895	59.43	ug/L	97
72) chlorobenzene	13.280	112	348978	56.58	ug/L	97
73) 1,1,1,2-tetrachloroethane	13.195	131	133869	60.83	ug/L	98
74) ethylbenzene	13.449	91	669437	57.41	ug/L	99
75) m,p-xylene	13.633	106	465867	114.51	ug/L	100
76) o-xylene	14.047	106	234825	55.97	ug/L	99
77) styrene	13.972	104	377017	55.66	ug/L	99
78) bromoform	13.803	173	77142	53.58	ug/L	98
79) trans-1,4-dichloro-2-b...	14.195	53	17716	58.96	ug/L	98
81) isopropylbenzene	14.404	105	610124	52.73	ug/L	100
83) bromobenzene	14.697	156	143432	52.99	ug/L	99
84) 1,1,2,2-tetrachloroethane	14.047	83	140182	52.45	ug/L	99
85) 1,2,3-trichloropropane	14.195	75	133130	53.57	ug/L	100
86) n-propylbenzene	14.849	91	807249	57.06	ug/L	99
87) 2-chlorotoluene	14.973	91	491375	52.37	ug/L	99
88) 4-chlorotoluene	15.047	91	509318	53.57	ug/L	98
89) 1,3,5-trimethylbenzene	15.125	105	570795	54.47	ug/L	100
90) tert-butylbenzene	15.433	91	367246	56.11	ug/L	98
91) 1,2,4-trimethylbenzene	15.539	105	567304	56.59	ug/L	98
92) sec-butylbenzene	15.652	105	743694	58.25	ug/L	99
93) 1,3-dichlorobenzene	15.761	146	281914	54.74	ug/L	98
94) p-isopropyltoluene	15.821	119	587248	59.55	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140730\
Data File : N89194.D
Acq On : 30 Jul 2014 11:29 pm
Operator : krystend
Sample : mc32218-2msd
Misc : ms32401,MSN3307,,,,5,1
ALS Vial : 39 Sample Multiplier: 1

Quant Time: Jul 31 08:52:57 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 14:05:07 2014
Response via : Initial Calibration

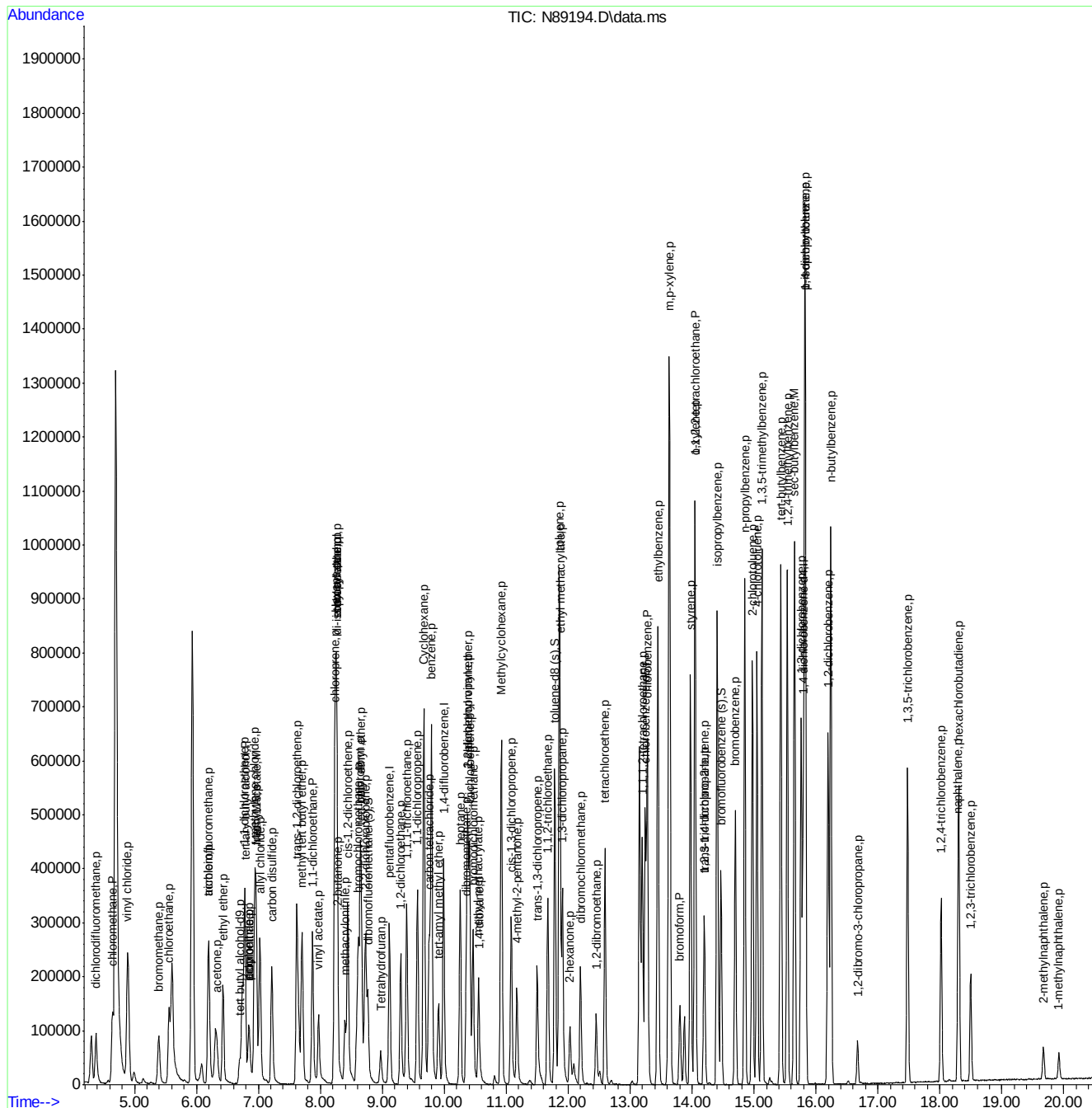
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95)	1,4-dichlorobenzene	15.825	146	263343	55.41	ug/L	98
96)	1,2-dichlorobenzene	16.193	146	273181	57.94	ug/L	97
97)	n-butylbenzene	16.239	91	621932	61.49	ug/L	99
98)	1,2-dibromo-3-chloropr...	16.673	75	23200	52.30	ug/L	89
99)	1,2,4-trichlorobenzene	18.020	180	110508	65.86	ug/L	96
100)	1,3,5-trichlorobenzene	17.479	180	189074	59.69	ug/L	99
101)	hexachlorobutadiene	18.303	225	101650	60.60	ug/L	96
102)	naphthalene	18.293	128	103123	59.36	ug/L	100
103)	1,2,3-trichlorobenzene	18.498	180	68452	68.28	ug/L	100
104)	2-methylnaphthalene	19.671	142	33112	27.37	ug/L #	100
105)	1-methylnaphthalene	19.919	142	26906	27.02	ug/L #	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140730\
Data File : N89194.D
Acq On : 30 Jul 2014 11:29 pm
Operator : krystend
Sample : mc32218-2msd
Misc : ms32401,MSN3307,,,,,5,1
ALS Vial : 39 Sample Multiplier: 1

Quant Time: Jul 31 08:52:57 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 14:05:07 2014
Response via : Initial Calibration



n140729w.m Thu Jul 31 08:53:03 2014

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7.4.2



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140731\
 Data File : N89226.D
 Acq On : 31 Jul 2014 9:55 pm
 Operator : jaclynb
 Sample : mc32252-11ms
 Misc : ms32407,MSN3308,,,,5,5
 ALS Vial : 44 Sample Multiplier: 1

Quant Time: Aug 01 07:57:34 2014
 Quant Method : C:\msdchem\1\methods\n140729w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Wed Jul 30 14:05:07 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.693	65	61312	500.00	ug/L	0.00
4) pentafluorobenzene	9.119	168	169003	50.00	ug/L	0.00
43) 1,4-difluorobenzene	9.988	114	271278	50.00	ug/L	0.00
66) chlorobenzene-d5	13.244	82	144852	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.800	152	117904	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.765	113	80088	45.08	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	90.16%		
60) toluene-d8 (s)	11.784	98	339453	48.11	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	96.22%		
82) bromofluorobenzene (s)	14.467	95	135120	41.56	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	83.12%		
Target Compounds						
					Qvalue	
2) tertiary butyl alcohol	6.782	59	152887	701.95	ug/L	# 100
3) Ethanol	5.555	45	224214m	7610.54	ug/L	
5) dichlorodifluoromethane	4.381	85	147370	77.34	ug/L	95
6) chloromethane	4.643	50	199772	72.11	ug/L	100
7) vinyl chloride	4.883	62	152815	79.46	ug/L	100
8) bromomethane	5.389	96	87894	72.50	ug/L	98
9) chloroethane	5.559	64	101059	67.46	ug/L	99
10) ethyl ether	6.425	59	136673	71.95	ug/L	98
11) acetonitrile	6.425	41	17930	67.28	ug/L	90
12) trichlorofluoromethane	6.195	101	225627	94.15	ug/L	100
13) freon-113	6.958	101	122101	Below Cal		98
14) acrolein	6.191	56	95748	1039.93	ug/L	100
15) 1,1-dichloroethene	6.778	96	117361	73.89	ug/L	97
16) acetone	6.336	58	14815	66.22	ug/L	# 78
17) Methyl Acetate	6.958	43	100389	70.47	ug/L	99
18) methylene chloride	6.937	84	136125	72.55	ug/L	98
19) methyl tert butyl ether	7.704	73	337916	81.54	ug/L	96
20) acrylonitrile	6.842	53	57343	79.47	ug/L	97
21) allyl chloride	7.026	41	229870	75.97	ug/L	99
22) trans-1,2-dichloroethene	7.620	96	133555	78.31	ug/L	94
23) iodomethane	6.852	142	108357	103.35	ug/L	95
24) carbon disulfide	7.220	76	376358	90.32	ug/L	100
25) propionitrile	6.838	54	1737	66.18	ug/L	100
26) vinyl acetate	7.966	43	270096	138.65	ug/L	97
27) chloroprene	8.235	53	255030	70.05	ug/L	99
28) di-isopropyl ether	8.259	45	628246	78.79	ug/L	95
29) methacrylonitrile	8.394	41	79439	69.12	ug/L	97
30) 2-butanone	8.288	72	11521	75.44	ug/L	# 37
31) Hexane	8.245	41	230053	93.01	ug/L	86
32) 1,1-dichloroethane	7.874	63	327318	73.42	ug/L	98
33) tert-butyl ethyl ether	8.659	59	366734	57.13	ug/L	97
34) isobutyl alcohol	8.259	43	462348	424.05	ug/L	98
35) 2,2-dichloropropane	8.726	77	190883	86.77	ug/L	96
36) cis-1,2-dichloroethene	8.443	96	152561	76.16	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140731\
 Data File : N89226.D
 Acq On : 31 Jul 2014 9:55 pm
 Operator : jaclynb
 Sample : mc32252-11ms
 Misc : ms32407,MSN3308,,,,5,5
 ALS Vial : 44 Sample Multiplier: 1

Quant Time: Aug 01 07:57:34 2014
 Quant Method : C:\msdchem\1\methods\n140729w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Wed Jul 30 14:05:07 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) ethyl acetate	8.259	43	462348	84.81	ug/L	94
38) bromochloromethane	8.609	128	63845	74.84	ug/L	99
39) chloroform	8.645	83	265624	78.00	ug/L	96
41) Tetrahydrofuran	8.977	42	40797	76.60	ug/L	94
42) 1,1,1-trichloroethane	9.394	97	239817	82.75	ug/L	98
44) Cyclohexane	9.674	56	343131	91.67	ug/L	99
45) carbon tetrachloride	9.758	117	186817	86.13	ug/L	99
46) 1,1-dichloropropene	9.568	75	203488	81.09	ug/L	99
47) benzene	9.794	78	570788	73.50	ug/L	96
48) 1,2-dichloroethane	9.299	62	234370	72.97	ug/L	100
49) tert-amyl methyl ether	9.903	73	248118	65.59	ug/L	99
50) heptane	10.257	43	184773	95.32	ug/L	95
51) trichloroethene	10.409	95	169455	71.11	ug/L	97
52) 1,2-dichloropropane	10.377	63	202194	78.59	ug/L	100
53) dibromomethane	10.352	93	83055	72.95	ug/L	98
54) bromodichloromethane	10.466	83	207856	74.48	ug/L	98
55) Methylcyclohexane	10.922	83	257625	92.31	ug/L	98
56) 2-chloroethyl vinyl ether	10.377	63	202194	75.48	ug/L #	99
57) methyl methacrylate	10.550	69	77504	73.93	ug/L	95
58) 1,4-dioxane	10.568	88	6163	365.67	ug/L	99
59) cis-1,3-dichloropropene	11.081	75	227527	73.39	ug/L	99
61) 4-methyl-2-pentanone	11.173	43	154172	71.96	ug/L	99
62) toluene	11.855	92	358560	74.80	ug/L	99
63) trans-1,3-dichloropropene	11.501	75	170733	69.89	ug/L	99
64) 1,1,2-trichloroethane	11.671	83	112353	76.74	ug/L	98
65) ethyl methacrylate	11.869	69	151605	81.62	ug/L	94
67) tetrachloroethene	12.597	166	142519	79.52	ug/L	96
68) 1,3-dichloropropane	11.904	76	220154	72.76	ug/L	100
69) dibromochloromethane	12.198	129	139829	69.80	ug/L	97
70) 1,2-dibromoethane	12.452	107	116069	71.68	ug/L	97
71) 2-hexanone	12.025	43	100465	71.42	ug/L	98
72) chlorobenzene	13.280	112	375676	71.32	ug/L	98
73) 1,1,1,2-tetrachloroethane	13.191	131	139297	74.11	ug/L	99
74) ethylbenzene	13.449	91	723482	72.65	ug/L	97
75) m,p-xylene	13.633	106	498349	143.43	ug/L	99
76) o-xylene	14.047	106	250848	70.01	ug/L	97
77) styrene	13.976	104	405636	70.12	ug/L	99
78) bromoform	13.803	173	85922	69.48	ug/L	97
79) trans-1,4-dichloro-2-b...	14.199	53	20326	72.49	ug/L #	81
81) isopropylbenzene	14.404	105	663364	67.28	ug/L	100
83) bromobenzene	14.701	156	155152	67.27	ug/L	99
84) 1,1,2,2-tetrachloroethane	14.050	83	153930	67.59	ug/L	96
85) 1,2,3-trichloropropane	14.195	75	149720	70.71	ug/L	100
86) n-propylbenzene	14.849	91	874458	72.54	ug/L	100
87) 2-chlorotoluene	14.973	91	533550	66.74	ug/L	100
88) 4-chlorotoluene	15.047	91	548765	67.74	ug/L	100
89) 1,3,5-trimethylbenzene	15.129	105	613889	68.75	ug/L	99
90) tert-butylbenzene	15.433	91	398739	71.50	ug/L	99
91) 1,2,4-trimethylbenzene	15.535	105	606677	71.02	ug/L	97
92) sec-butylbenzene	15.652	105	805491	74.05	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140731\
Data File : N89226.D
Acq On : 31 Jul 2014 9:55 pm
Operator : jaclynb
Sample : mc32252-11ms
Misc : ms32407,MSN3308,,,,5,5
ALS Vial : 44 Sample Multiplier: 1

Quant Time: Aug 01 07:57:34 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 14:05:07 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93)	1,3-dichlorobenzene	15.761	146	298894	68.11	ug/L	99
94)	p-isopropyltoluene	15.821	119	625573	74.46	ug/L	100
95)	1,4-dichlorobenzene	15.829	146	279529	69.03	ug/L	99
96)	1,2-dichlorobenzene	16.196	146	295591	73.58	ug/L	97
97)	n-butylbenzene	16.239	91	673551	77.64	ug/L	99
98)	1,2-dibromo-3-chloropr...	16.674	75	26314	68.10	ug/L	95
99)	1,2,4-trichlorobenzene	18.020	180	119844	79.08	ug/L	94
100)	1,3,5-trichlorobenzene	17.480	180	200580	73.84	ug/L	97
101)	hexachlorobutadiene	18.307	225	103634	71.90	ug/L	97
102)	naphthalene	18.289	128	114239	70.57	ug/L	100
103)	1,2,3-trichlorobenzene	18.498	180	73858	79.77	ug/L	94
104)	2-methylnaphthalene	19.675	142	35620	34.56	ug/L #	100
105)	1-methylnaphthalene	19.919	142	28705	33.83	ug/L #	100

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

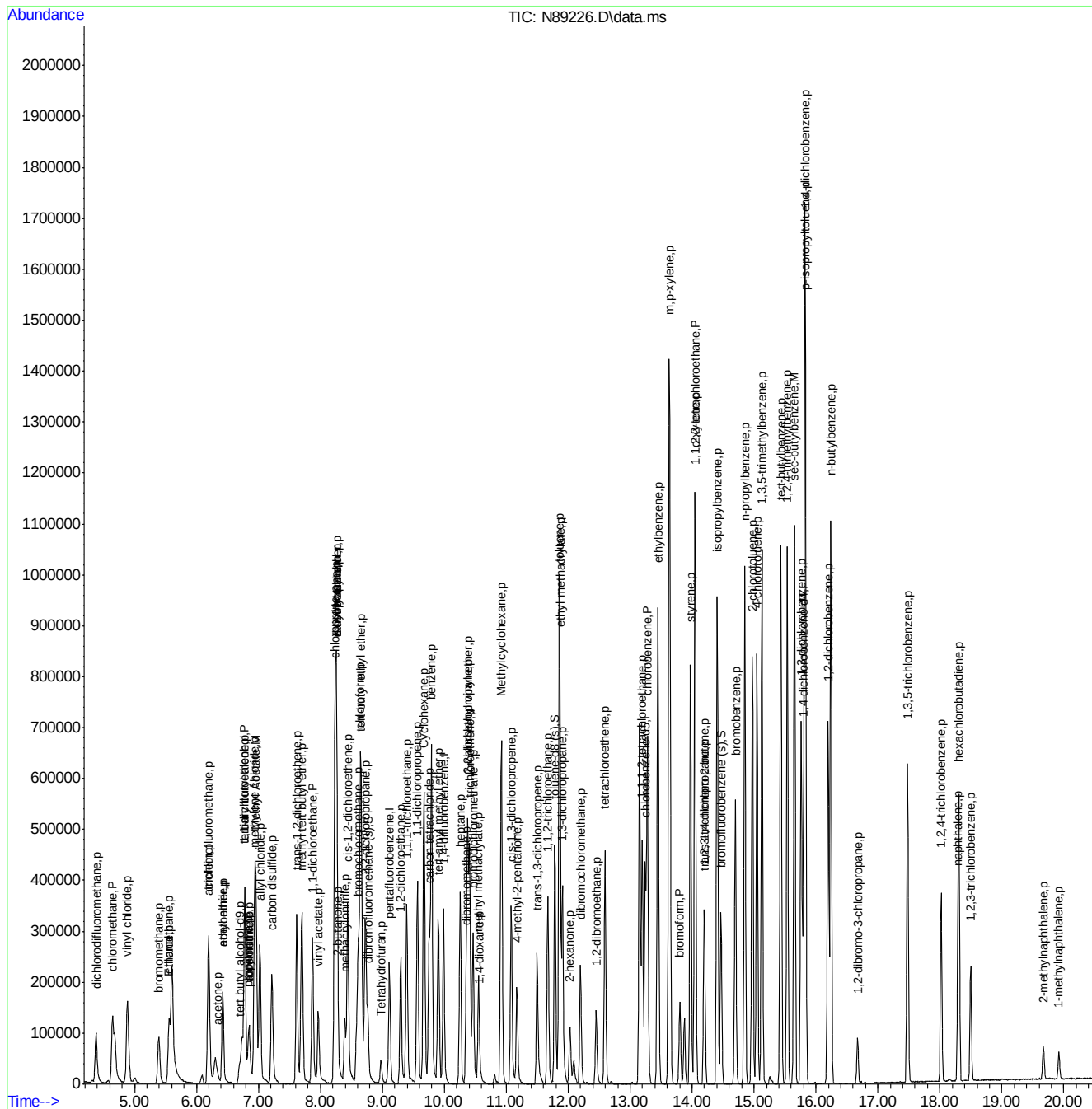
7.4.3

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140731\
Data File : N89226.D
Acq On : 31 Jul 2014 9:55 pm
Operator : jaclynb
Sample : mc32252-11ms
Misc : ms32407,MSN3308,,,5,5
ALS Vial : 44 Sample Multiplier: 1

Quant Time: Aug 01 07:57:34 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 14:05:07 2014
Response via : Initial Calibration



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n140729w.m Fri Aug 01 07:57:42 2014
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7.4.3



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140731\
 Data File : N89227.D
 Acq On : 31 Jul 2014 10:23 pm
 Operator : jaclynb
 Sample : mc32252-11msd
 Misc : ms32407,MSN3308,,,,5,5
 ALS Vial : 45 Sample Multiplier: 1

Quant Time: Aug 01 07:57:45 2014
 Quant Method : C:\msdchem\1\methods\n140729w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Wed Jul 30 14:05:07 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.697	65	72233	500.00	ug/L	0.00
4) pentafluorobenzene	9.119	168	206345	50.00	ug/L	0.00
43) 1,4-difluorobenzene	9.988	114	326089	50.00	ug/L	0.00
66) chlorobenzene-d5	13.244	82	170087	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.800	152	137579	50.00	ug/L	0.00

System Monitoring Compounds						
40) dibromofluoromethane (s)	8.769	113	97740	45.06	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	90.12%
60) toluene-d8 (s)	11.784	98	397816	46.90	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	93.80%
82) bromofluorobenzene (s)	14.464	95	157174	41.43	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	82.86%

Target Compounds						Qvalue
2) tertiary butyl alcohol	6.782	59	151475	590.32	ug/L	# 100
3) Ethanol	5.555	45	233113	6716.29	ug/L	99
5) dichlorodifluoromethane	4.378	85	150135	64.53	ug/L	95
6) chloromethane	4.643	50	191210	56.53	ug/L	97
7) vinyl chloride	4.883	62	153344	65.30	ug/L	100
8) bromomethane	5.392	96	88253	59.62	ug/L	95
9) chloroethane	5.555	64	100004	54.68	ug/L	97
10) ethyl ether	6.425	59	137325	59.21	ug/L	97
11) acetonitrile	6.425	41	18947	58.23	ug/L	99
12) trichlorofluoromethane	6.198	101	230164	78.67	ug/L	98
13) freon-113	6.962	101	120969	103.31	ug/L	97
14) acrolein	6.191	56	100027	889.80	ug/L	100
15) 1,1-dichloroethene	6.782	96	115455	59.53	ug/L	97
16) acetone	6.329	58	16917	61.52	ug/L	91
17) Methyl Acetate	6.958	43	105863	60.86	ug/L	98
18) methylene chloride	6.937	84	134379	58.65	ug/L	98
19) methyl tert butyl ether	7.704	73	306781	60.63	ug/L	98
20) acrylonitrile	6.845	53	56576	64.22	ug/L	96
21) allyl chloride	7.022	41	223436	60.69	ug/L	99
22) trans-1,2-dichloroethene	7.616	96	130407	62.63	ug/L	99
23) iodomethane	6.849	142	102999	80.46	ug/L	96
24) carbon disulfide	7.217	76	373896	73.49	ug/L	98
25) propionitrile	6.838	54	1990	62.48	ug/L	100
26) vinyl acetate	7.970	43	279657	121.41	ug/L	99
27) chloroprene	8.231	53	247543	55.69	ug/L	97
28) di-isopropyl ether	8.259	45	607071	62.36	ug/L	96
29) methacrylonitrile	8.394	41	78922	56.24	ug/L	98
30) 2-butanone	8.288	72	12572	67.43	ug/L	# 16
31) Hexane	8.242	41	224283	74.27	ug/L	# 74
32) 1,1-dichloroethane	7.871	63	319022	58.71	ug/L	98
33) tert-butyl ethyl ether	8.659	59	287320	39.64	ug/L	97
34) isobutyl alcohol	8.256	43	446506	335.41	ug/L	90
35) 2,2-dichloropropane	8.726	77	183086	72.02	ug/L	97
36) cis-1,2-dichloroethene	8.440	96	148693	60.80	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140731\
 Data File : N89227.D
 Acq On : 31 Jul 2014 10:23 pm
 Operator : jaclynb
 Sample : mc32252-11msd
 Misc : ms32407,MSN3308,,,,5,5
 ALS Vial : 45 Sample Multiplier: 1

Quant Time: Aug 01 07:57:45 2014
 Quant Method : C:\msdchem\1\methods\n140729w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Wed Jul 30 14:05:07 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) ethyl acetate	8.256	43	446506	67.08	ug/L	87
38) bromochloromethane	8.609	128	61980	59.51	ug/L	97
39) chloroform	8.645	83	262260	63.08	ug/L	98
41) Tetrahydrofuran	8.981	42	39303	60.44	ug/L	99
42) 1,1,1-trichloroethane	9.391	97	233101	67.53	ug/L	97
44) Cyclohexane	9.670	56	340539	75.68	ug/L	98
45) carbon tetrachloride	9.758	117	183129	72.08	ug/L	100
46) 1,1-dichloropropene	9.564	75	202166	67.02	ug/L	98
47) benzene	9.794	78	553038	59.24	ug/L	97
48) 1,2-dichloroethane	9.295	62	227485	58.92	ug/L	99
49) tert-amyl methyl ether	9.903	73	208522	45.86	ug/L	99
50) heptane	10.253	43	183390	78.71	ug/L	95
51) trichloroethene	10.409	95	165254	57.69	ug/L	99
52) 1,2-dichloropropane	10.377	63	198303	64.12	ug/L	98
53) dibromomethane	10.352	93	81410	59.48	ug/L	97
54) bromodichloromethane	10.465	83	205311	61.21	ug/L	96
55) Methylcyclohexane	10.922	83	252011	75.12	ug/L	98
56) 2-chloroethyl vinyl ether	10.377	63	198303	61.58	ug/L	# 99
57) methyl methacrylate	10.554	69	78829	62.56	ug/L	98
58) 1,4-dioxane	10.557	88	5989	297.51	ug/L	82
59) cis-1,3-dichloropropene	11.077	75	218741	59.62	ug/L	99
61) 4-methyl-2-pentanone	11.173	43	151847	58.96	ug/L	100
62) toluene	11.858	92	346696	60.17	ug/L	98
63) trans-1,3-dichloropropene	11.501	75	167811	57.20	ug/L	97
64) 1,1,2-trichloroethane	11.671	83	109820	62.41	ug/L	100
65) ethyl methacrylate	11.865	69	151388	67.80	ug/L	96
67) tetrachloroethene	12.594	166	138556	65.84	ug/L	98
68) 1,3-dichloropropane	11.908	76	212784	59.89	ug/L	99
69) dibromochloromethane	12.198	129	136037	58.49	ug/L	99
70) 1,2-dibromoethane	12.452	107	113349	59.62	ug/L	94
71) 2-hexanone	12.025	43	97950	59.30	ug/L	99
72) chlorobenzene	13.280	112	361812	58.50	ug/L	99
73) 1,1,1,2-tetrachloroethane	13.195	131	136298	61.76	ug/L	98
74) ethylbenzene	13.449	91	694266	59.37	ug/L	99
75) m,p-xylene	13.633	106	484584	118.78	ug/L	97
76) o-xylene	14.043	106	242484	57.63	ug/L	97
77) styrene	13.976	104	391892	57.69	ug/L	99
78) bromoform	13.803	173	83118	57.48	ug/L	97
79) trans-1,4-dichloro-2-b...	14.195	53	21024	66.37	ug/L	# 74
81) isopropylbenzene	14.404	105	632781	55.00	ug/L	100
83) bromobenzene	14.701	156	148702	55.25	ug/L	96
84) 1,1,2,2-tetrachloroethane	14.050	83	152173	57.27	ug/L	94
85) 1,2,3-trichloropropane	14.199	75	146416	59.26	ug/L	98
86) n-propylbenzene	14.849	91	848146	60.29	ug/L	99
87) 2-chlorotoluene	14.973	91	506252	54.27	ug/L	97
88) 4-chlorotoluene	15.047	91	531759	56.26	ug/L	100
89) 1,3,5-trimethylbenzene	15.129	105	590063	56.63	ug/L	99
90) tert-butylbenzene	15.433	91	380886	58.53	ug/L	99
91) 1,2,4-trimethylbenzene	15.539	105	578836	58.07	ug/L	99
92) sec-butylbenzene	15.652	105	771012	60.74	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140731\
Data File : N89227.D
Acq On : 31 Jul 2014 10:23 pm
Operator : jaclynb
Sample : mc32252-11msd
Misc : ms32407,MSN3308,,,,5,5
ALS Vial : 45 Sample Multiplier: 1

Quant Time: Aug 01 07:57:45 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 14:05:07 2014
Response via : Initial Calibration

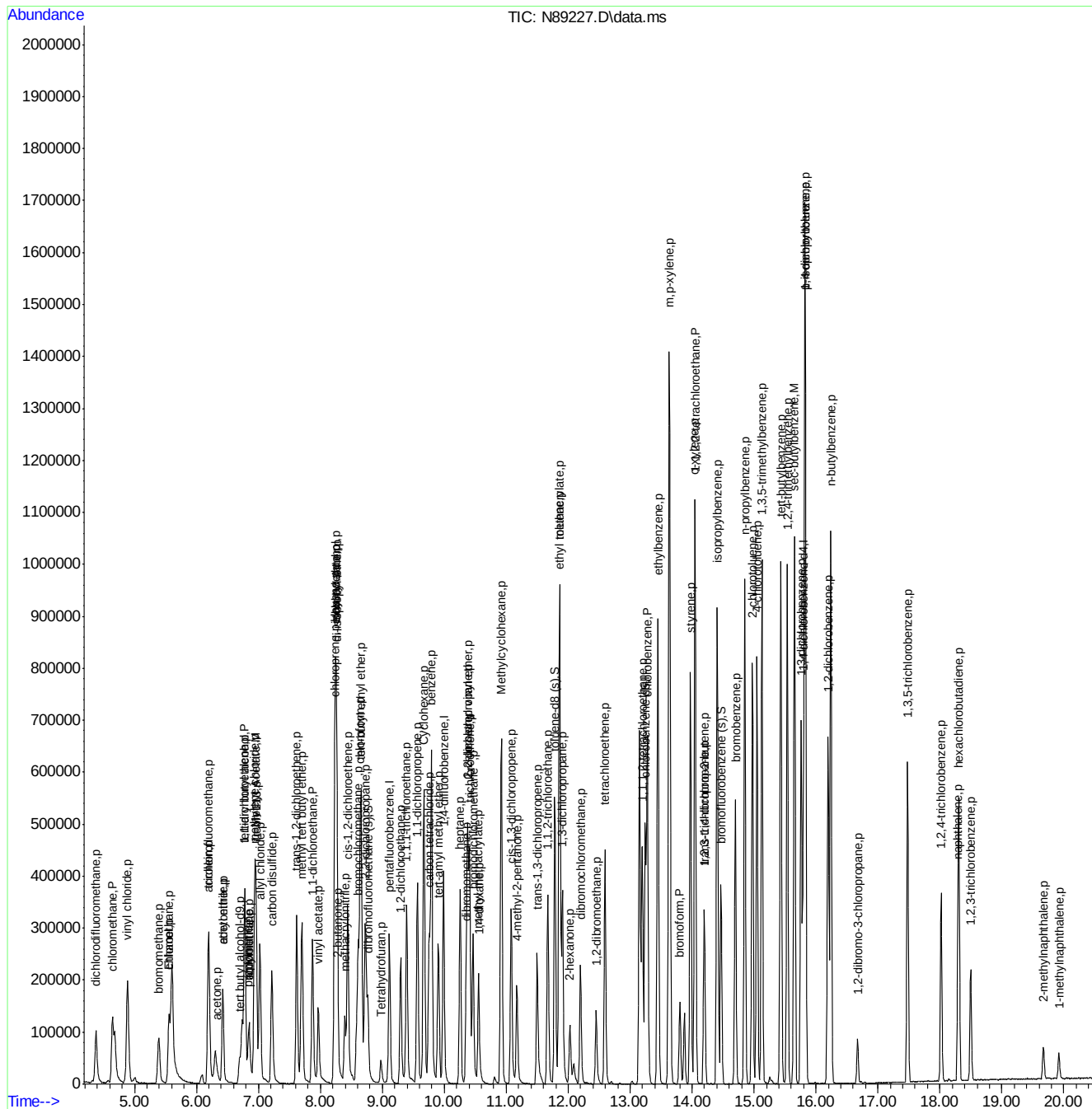
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93)	1,3-dichlorobenzene	15.761	146	293587	57.33	ug/L	99
94)	p-isopropyltoluene	15.825	119	604951	61.70	ug/L	99
95)	1,4-dichlorobenzene	15.825	146	271687	57.50	ug/L	98
96)	1,2-dichlorobenzene	16.196	146	284262	60.64	ug/L	96
97)	n-butylbenzene	16.239	91	643210	63.88	ug/L	99
98)	1,2-dibromo-3-chloropr...	16.673	75	25035	56.37	ug/L	99
99)	1,2,4-trichlorobenzene	18.020	180	116790	68.99	ug/L	98
100)	1,3,5-trichlorobenzene	17.480	180	195806	62.09	ug/L	99
101)	hexachlorobutadiene	18.307	225	99651	59.80	ug/L	100
102)	naphthalene	18.289	128	115671	64.32	ug/L	100
103)	1,2,3-trichlorobenzene	18.498	180	71548	70.59	ug/L	98
104)	2-methylnaphthalene	19.671	142	34598	28.77	ug/L #	100
105)	1-methylnaphthalene	19.922	142	28054	28.33	ug/L #	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140731\
Data File : N89227.D
Acq On : 31 Jul 2014 10:23 pm
Operator : jaclynb
Sample : mc32252-11msd
Misc : ms32407,MSN3308,,,5,5
ALS Vial : 45 Sample Multiplier: 1

Quant Time: Aug 01 07:57:45 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 14:05:07 2014
Response via : Initial Calibration



n140729w.m Fri Aug 01 07:58:02 2014

Page: 4

7.4.4



SW-846 Method 8260

Data File : C:\msdchem\1\data\N140729\N89149.D

Vial: 22

Acq On : 29 Jul 2014 7:30 pm

Operator: krystend

Sample : bfb

Inst : MSN

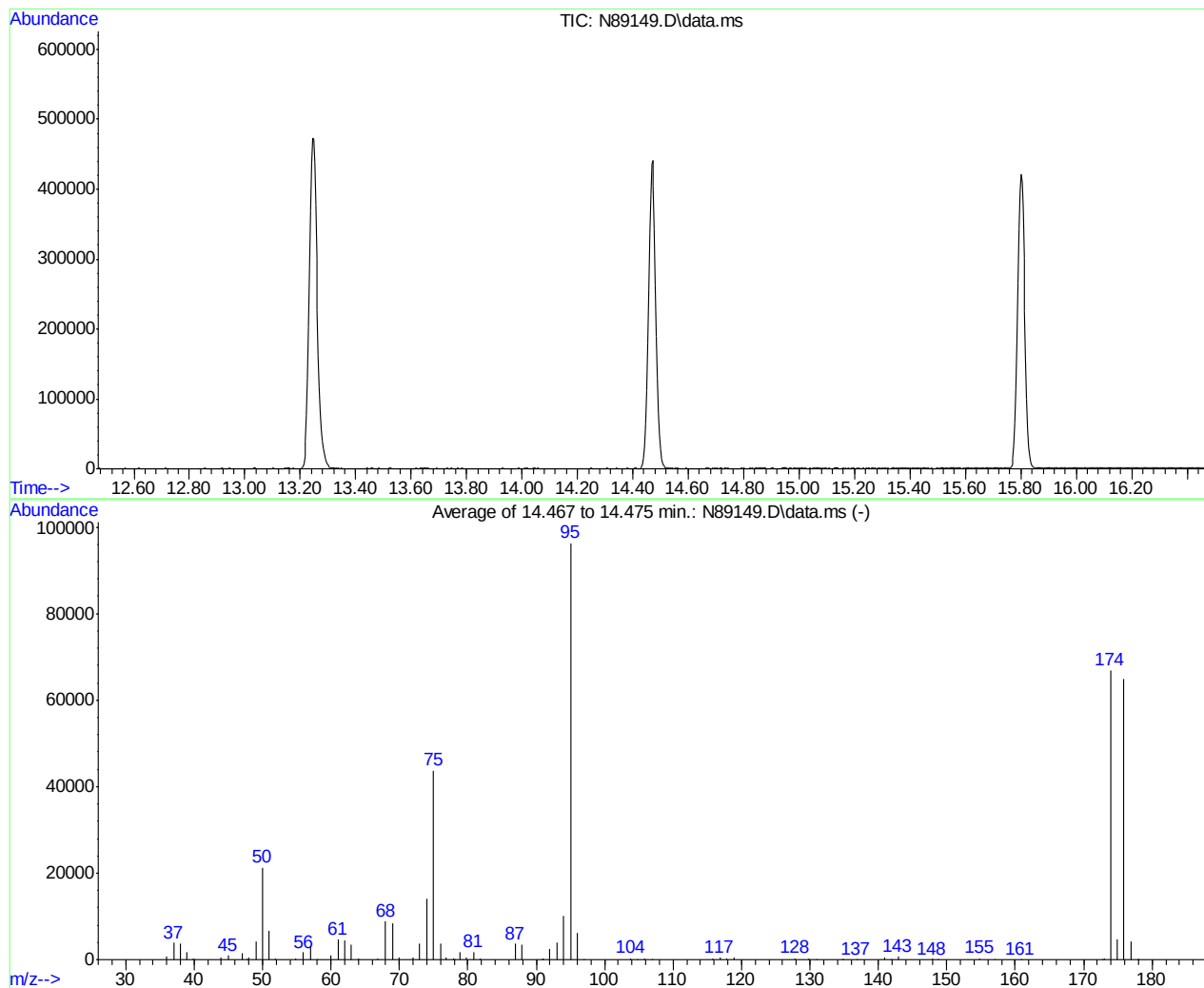
Misc : ms32328,MSN3306,,,,5,1

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\n140729w.m (RTE Integrator)

Title : SW-846 Method 8260



Spectrum Information: Average of 14.467 to 14.475 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.0	21235	PASS
75	95	30	60	45.4	43763	PASS
95	95	100	100	100.0	96317	PASS
96	95	5	9	6.5	6215	PASS
173	174	0.00	2	0.4	276	PASS
174	95	50	150	69.5	66941	PASS
175	174	5	9	7.1	4786	PASS
176	174	95	101	97.1	65000	PASS
177	176	5	9	6.4	4187	PASS

Average of 14.467 to 14.475 min.: N89149.D\data.ms

bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	743	49.00	4173	63.00	3516	76.90	468
37.00	3942	50.00	21235	64.00	298	77.90	272
38.00	3792	51.00	6627	66.90	242	78.10	110
39.00	1634	51.95	298	68.00	8791	78.85	1813
39.90	148	54.90	336	69.00	8488	79.85	565
40.10	55	55.95	1618	69.95	627	80.85	1758
43.90	532	57.00	2985	71.95	397	81.85	329
45.00	921	58.00	54	73.00	3803	86.95	3613
47.00	1524	59.95	901	74.00	14078	87.95	3495
47.70	131	61.00	4643	75.00	43763	90.80	108
47.95	477	62.00	4423	76.00	3789	90.95	175

Average of 14.467 to 14.475 min.: N89149.D\data.ms

bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
91.95	2572	116.85	458	142.90	711	176.90	4187
93.00	3942	117.85	256	147.85	183	177.80	76
94.00	10008	118.85	391	148.70	51	178.00	56
95.00	96317	127.85	289	154.85	257		
96.00	6215	129.85	282	156.90	52		
96.95	103	130.90	55	160.80	52		
103.85	281	134.70	64	172.70	119		
104.80	54	134.90	67	172.95	276		
105.85	254	136.80	128	173.90	66941		
106.90	55	140.85	619	174.90	4786		
115.75	276	141.80	52	175.90	65000		

7.5.1

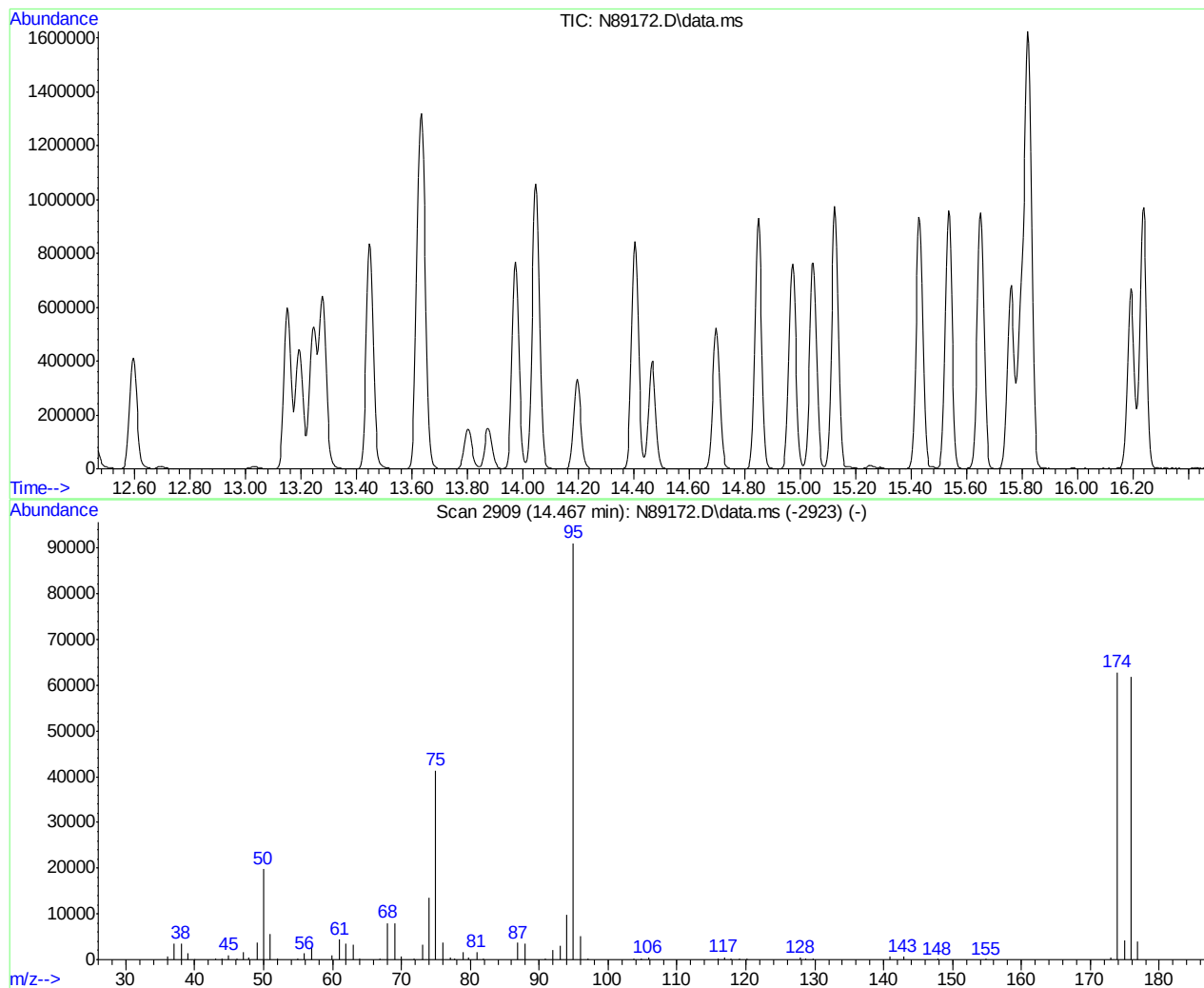
7

SW-846 Method 8260

Data File : C:\msdchem\1\data\N140730\N89172.D
Acq On : 30 Jul 2014 1:16 pm
Sample : bfb
Misc : ms32328,MSN3307,,,,5,1
MS Integration Params: RTEINT.P

Vial: 17
Operator: krystend
Inst : MSN
Multiplr: 1.00

Method : C:\msdchem\1\methods\n140729w.m (RTE Integrator)
Title : SW-846 Method 8260



Spectrum Information: Scan 2909

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.7	19736	PASS
75	95	30	60	45.4	41368	PASS
95	95	100	100	100.0	91084	PASS
96	95	5	9	5.7	5176	PASS
173	174	0.00	2	0.8	533	PASS
174	95	50	150	68.9	62767	PASS
175	174	5	9	6.8	4272	PASS
176	174	95	101	98.3	61720	PASS
177	176	5	9	6.4	3944	PASS

Scan 2909 (14.467 min): N89172.D\data.ms (-2923)

bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	681	49.00	3830	63.90	330	77.70	341
37.00	3423	50.00	19736	66.90	323	78.90	1625
38.00	3501	51.00	5678	68.00	8029	79.80	536
39.00	1409	52.00	282	69.00	7843	80.90	1727
40.00	15	54.90	259	69.90	710	81.90	306
43.00	162	55.90	1364	71.90	347	86.90	3645
43.95	271	57.00	2744	73.00	3271	87.90	3507
44.90	937	59.90	869	74.00	13495	90.90	286
46.10	179	61.00	4331	75.00	41368	92.00	2016
47.00	1682	62.00	3574	76.00	3700	93.00	3062
47.90	586	63.00	3185	77.10	474	94.00	9741

Scan 2909 (14.467 min): N89172.D\data.ms (-2923)

bfb

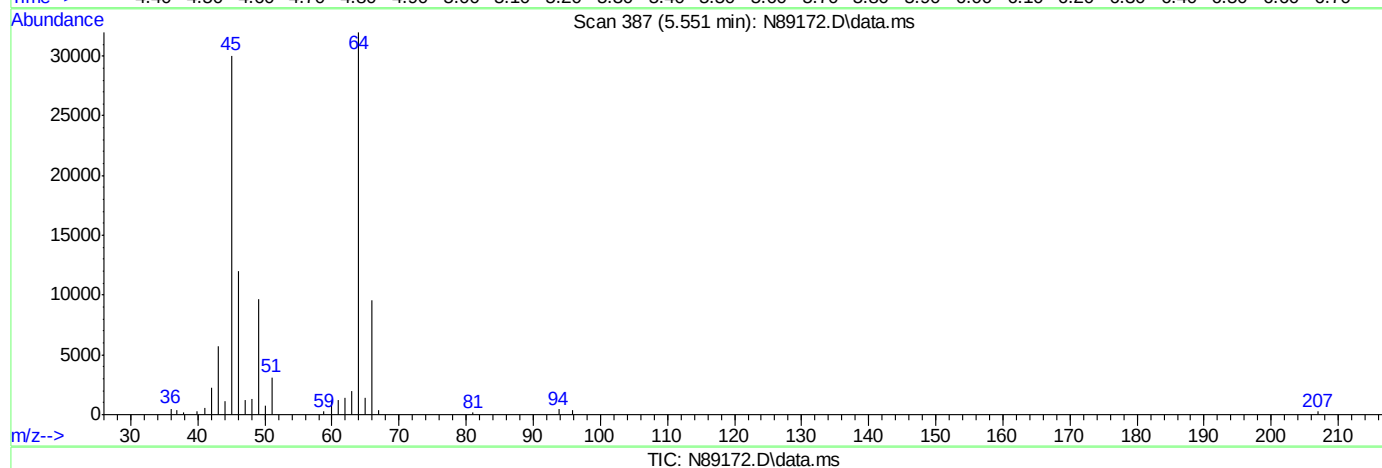
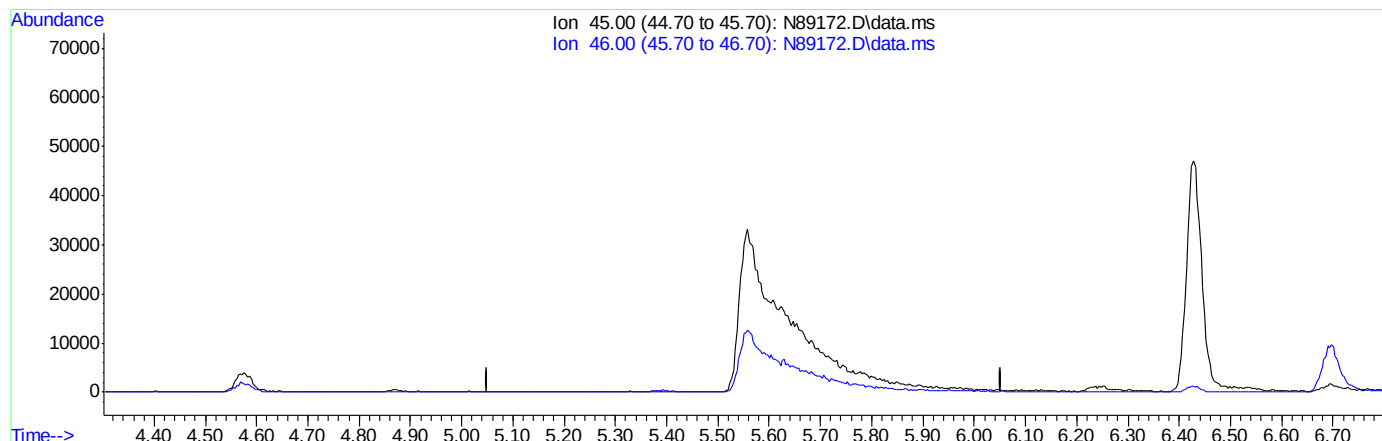
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
94.95	91084	127.90	408	176.90	3944		
96.00	5176	128.70	178				
97.00	155	129.80	358				
103.80	341	140.90	673				
104.80	238	142.90	682				
105.90	397	147.80	184				
115.90	259	154.90	231				
116.90	498	173.00	533				
117.90	243	173.90	62767				
119.00	334	174.90	4272				
120.10	177	175.90	61720				

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140730\
Data File : N89172.D
Acq On : 30 Jul 2014 1:16 pm
Operator : krystend
Sample : bs
Misc : ms32328,MSN3307,,,,5,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 30 13:58:44 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 12:02:51 2014
Response via : Initial Calibration



(3) Ethanol (p)

5.552min (-5.552) 0.00ug/L

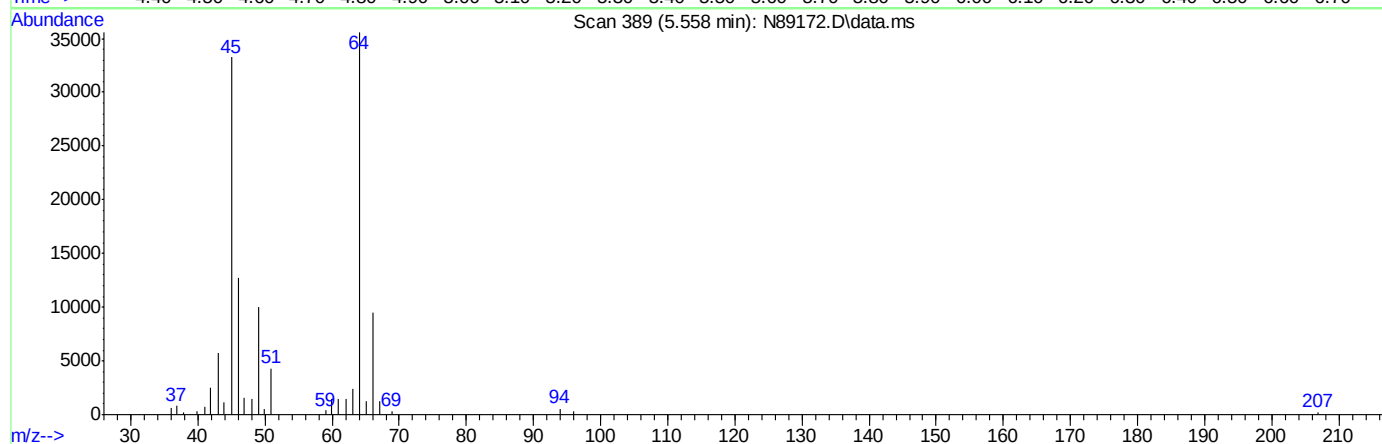
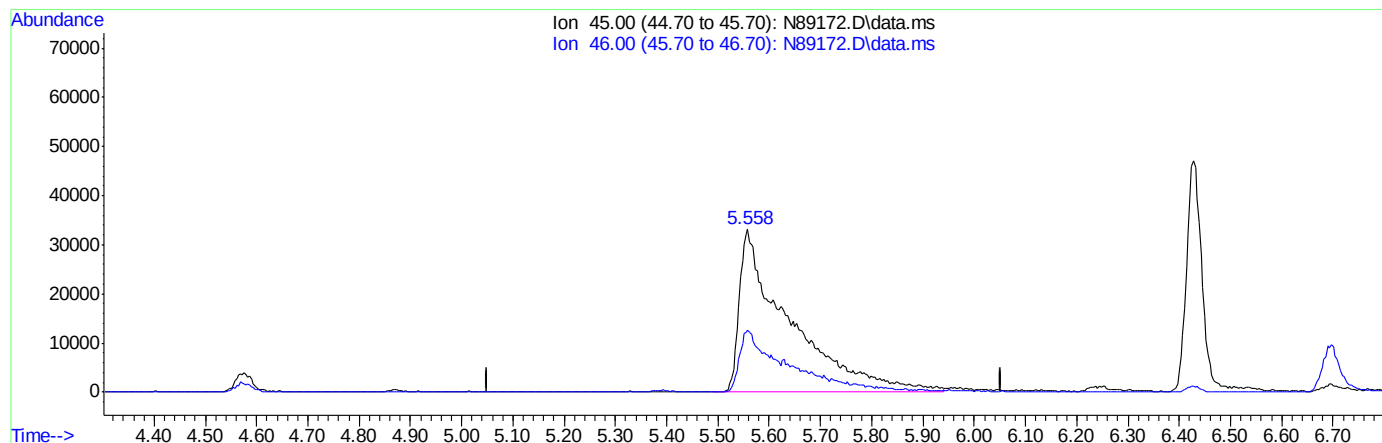
response 0

Ion	Exp%	Act%
45.00	100	0.00
46.00	36.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140730\
Data File : N89172.D
Acq On : 30 Jul 2014 1:16 pm
Operator : krystend
Sample : bs
Misc : ms32328,MSN3307,,,,5,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 30 13:58:44 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 12:02:51 2014
Response via : Initial Calibration



(3) Ethanol (p)

5.558min (+0.006) 5511.69ug/L m

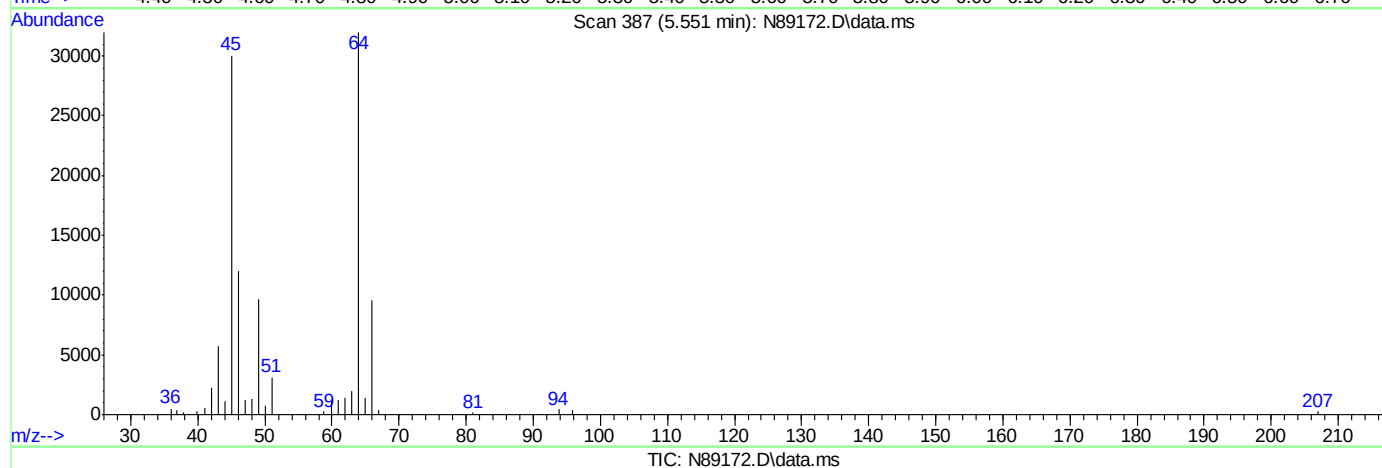
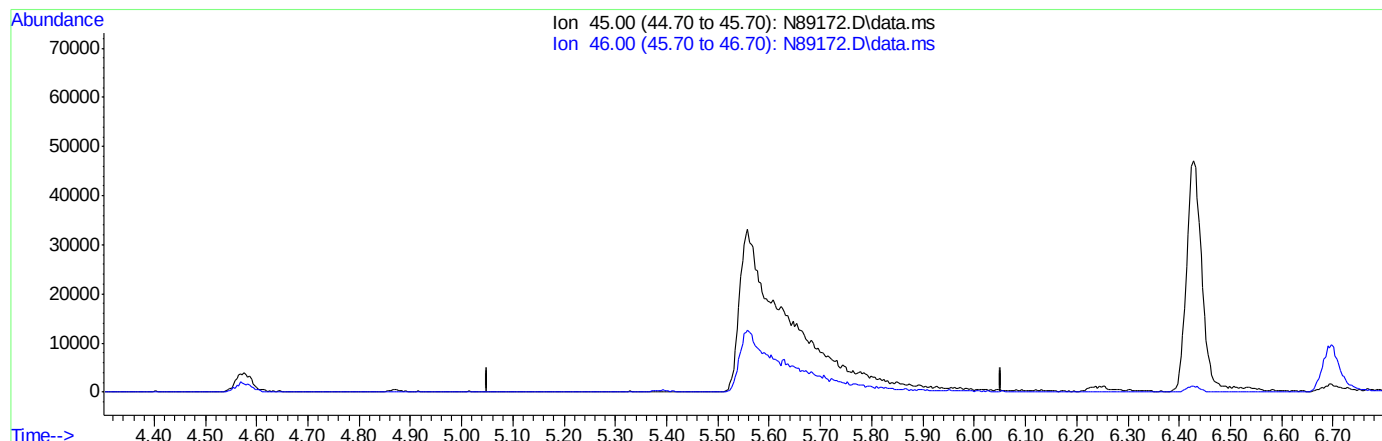
response 224485

Ion	Exp%	Act%
45.00	100	100
46.00	36.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140730\
Data File : N89172.D
Acq On : 30 Jul 2014 1:16 pm
Operator : krystend
Sample : bs
Misc : ms32328,MSN3307,,,,5,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 30 14:05:35 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 14:05:07 2014
Response via : Initial Calibration



(3) Ethanol (p)

5.552min (-5.552) 0.00ug/L

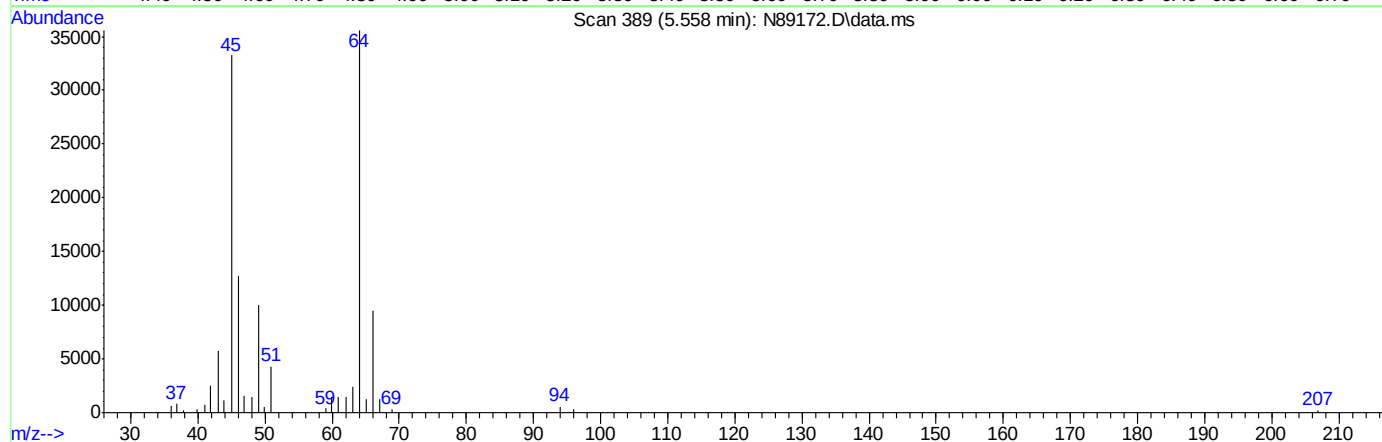
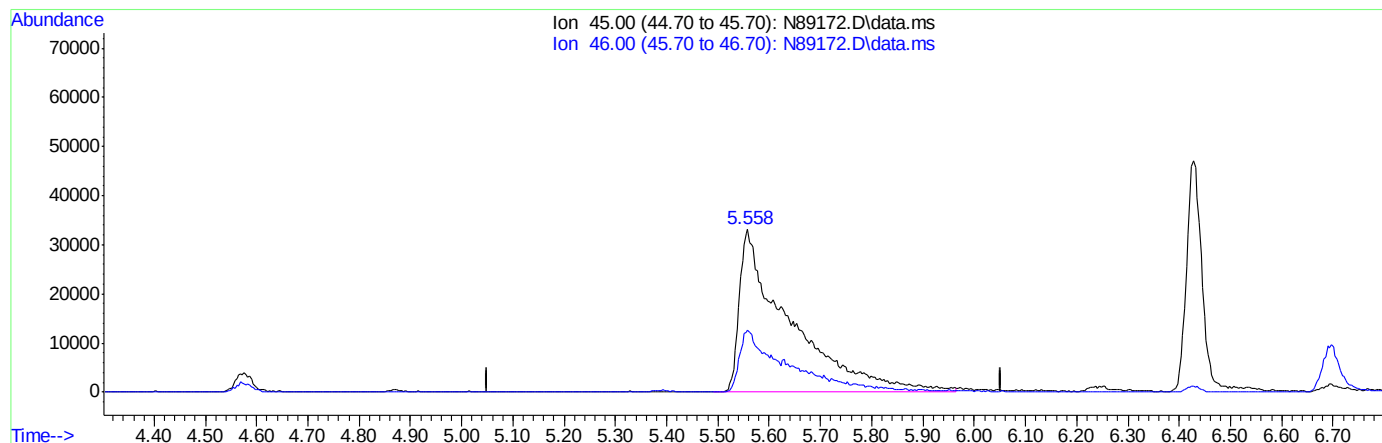
response 0

Ion	Exp%	Act%
45.00	100	0.00
46.00	36.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140730\
Data File : N89172.D
Acq On : 30 Jul 2014 1:16 pm
Operator : krystend
Sample : bs
Misc : ms32328,MSN3307,,,,5,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 30 14:05:35 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 14:05:07 2014
Response via : Initial Calibration



(3) Ethanol (p)

5.558min (+0.006) 5541.39ug/L m

response 225695

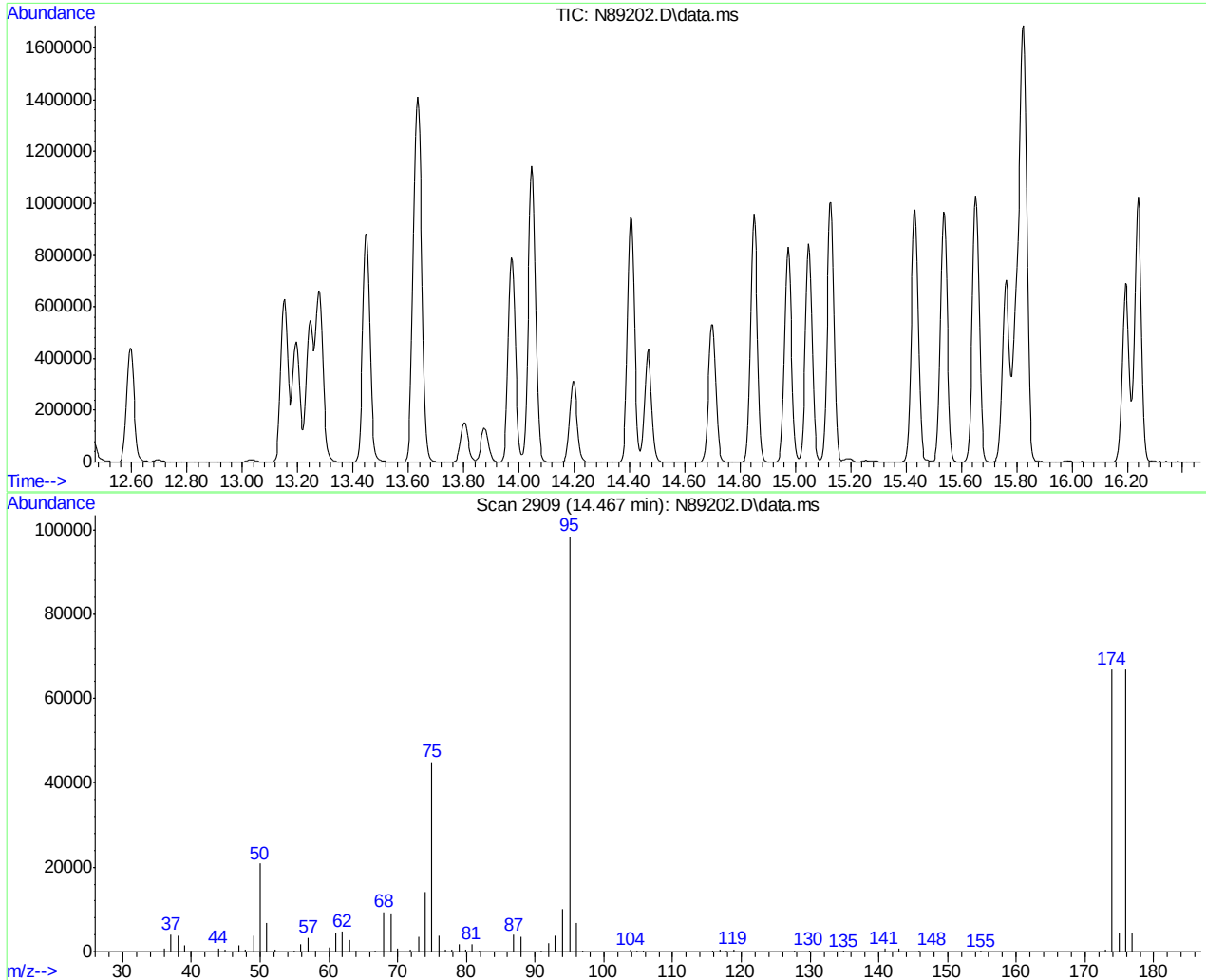
Ion	Exp%	Act%
45.00	100	100
46.00	36.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

SW-846 Method 8260

Data File : C:\msdchem\1\data\N140731\N89202.D
 Acq On : 31 Jul 2014 10:49 am
 Sample : bfb
 Misc : ms32401,MSN3308,,,5,1
 MS Integration Params: RTEINT.P

Vial: 20
 Operator: jaclynb
 Inst : MSN
 Multiplr: 1.00

Method : C:\msdchem\1\methods\n140729w.m (RTE Integrator)
 Title : SW-846 Method 8260



Spectrum Information: Scan 2909

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.2	20880	PASS
75	95	30	60	45.7	44968	PASS
95	95	100	100	100.0	98496	PASS
96	95	5	9	6.9	6768	PASS
173	174	0.00	2	0.7	463	PASS
174	95	50	150	67.9	66912	PASS
175	174	5	9	7.0	4668	PASS
176	174	95	101	99.9	66816	PASS
177	176	5	9	6.9	4590	PASS

Scan 2909 (14.467 min): N89202.D\data.ms
cc3306-50

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	839	51.00	6792	66.80	210	78.90	1739
37.00	4086	52.10	438	68.00	9428	79.90	539
38.00	3722	55.00	302	69.00	9129	80.80	1793
39.00	1604	55.90	1710	70.00	725	81.90	315
39.90	212	57.00	3412	71.90	412	86.90	3975
43.90	802	58.00	192	73.00	3570	87.90	3647
44.90	637	60.00	951	74.00	14240	90.90	346
46.90	1416	61.00	4487	75.00	44968	92.00	2067
47.90	547	62.00	4792	76.00	3852	92.90	3866
49.00	3887	63.00	2883	76.90	610	94.00	10196
50.00	20880	64.00	381	77.90	539	95.00	98496

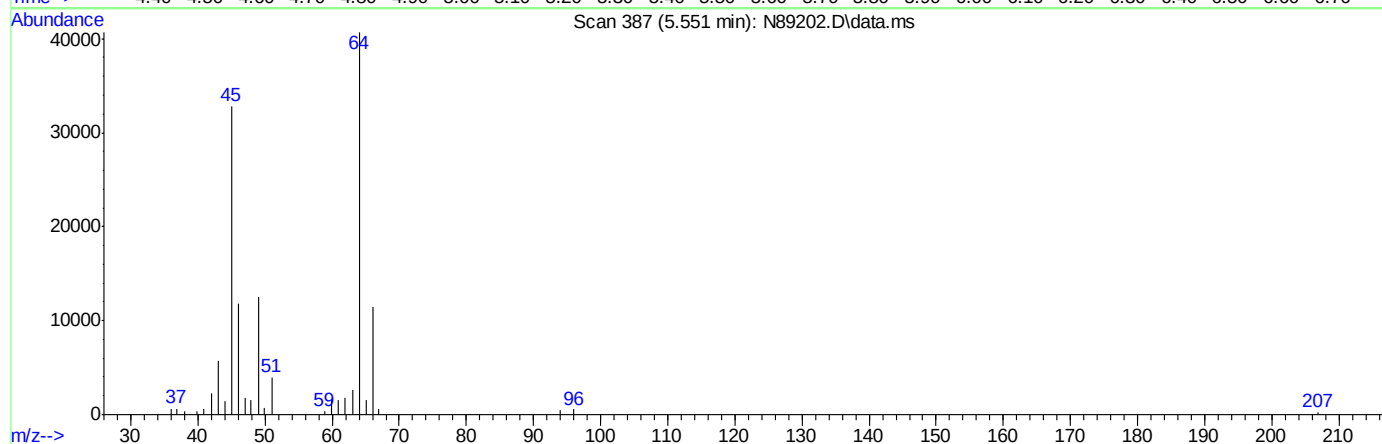
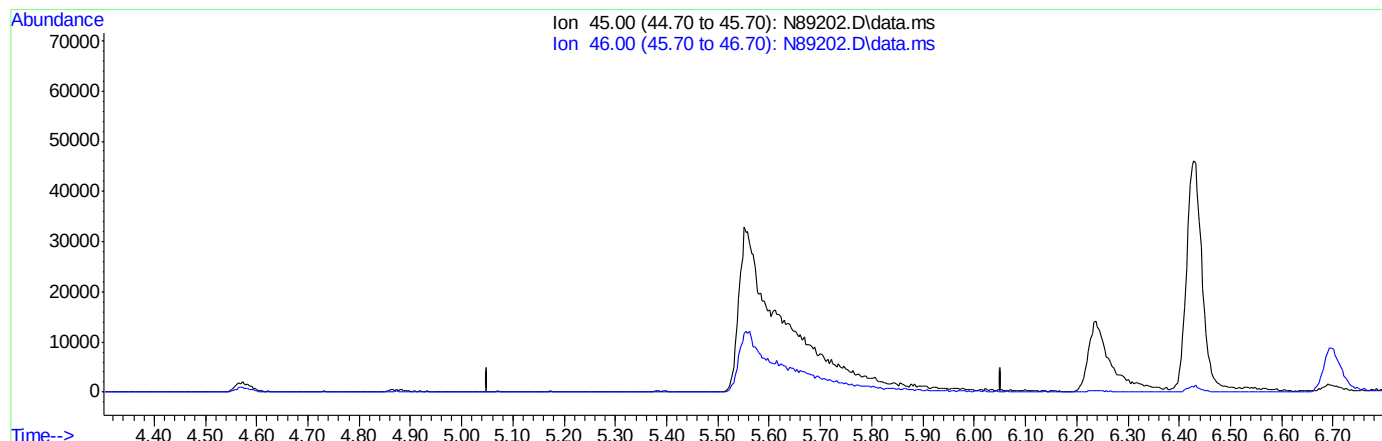
Scan 2909 (14.467 min): N89202.D\data.ms
cc3306-50

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
96.00	6768	134.90	210				
96.90	216	140.90	744				
103.90	392	142.90	736				
104.80	331	145.90	162				
105.80	367	147.80	294				
115.80	230	154.90	219				
116.90	418	172.90	463				
117.90	298	173.90	66912				
118.90	524	175.00	4668				
127.80	251	175.90	66816				
129.90	313	176.90	4590				

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140731\
Data File : N89202.D
Acq On : 31 Jul 2014 10:49 am
Operator : jaclynb
Sample : cc3306-50
Misc : ms32401,MSN3308,,,,5,1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 31 11:16:27 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 14:05:07 2014
Response via : Initial Calibration



(3) Ethanol (p)

5.552min (-5.552) 0.00ug/L

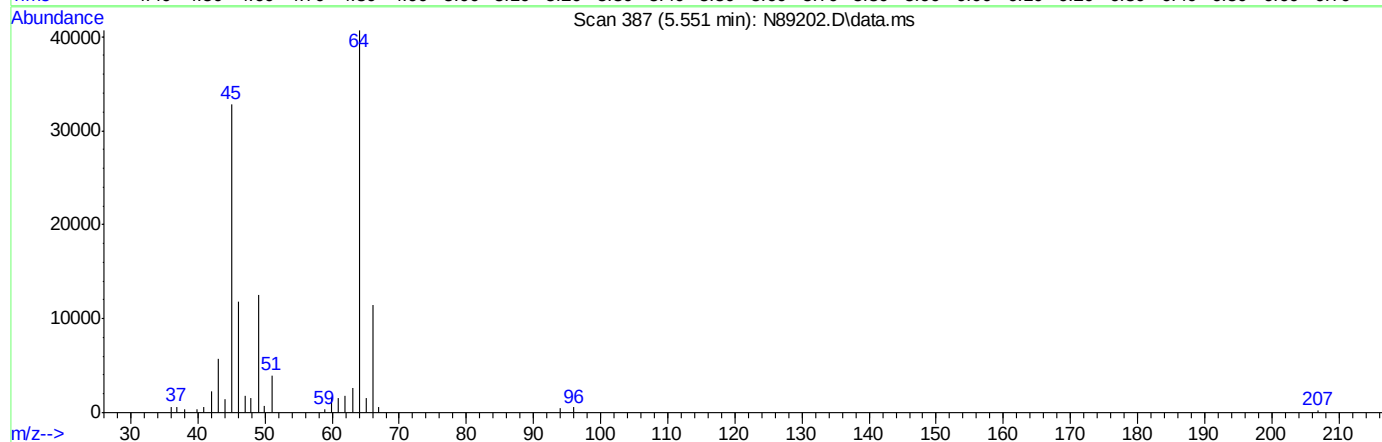
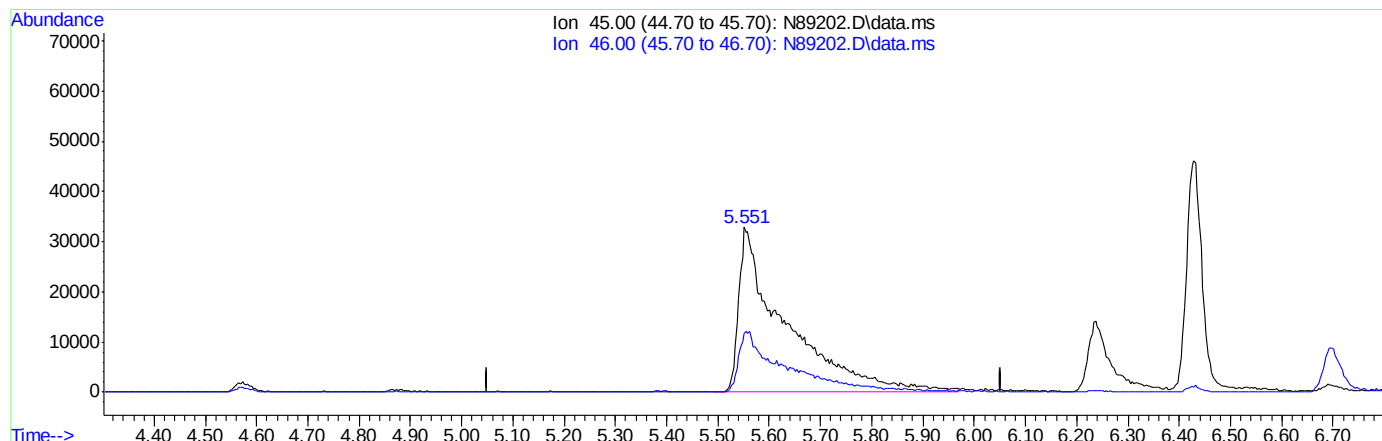
response 0

Ion	Exp%	Act%
45.00	100	0.00
46.00	36.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140731\
Data File : N89202.D
Acq On : 31 Jul 2014 10:49 am
Operator : jaclynb
Sample : cc3306-50
Misc : ms32401,MSN3308,,,,5,1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 31 11:16:27 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 14:05:07 2014
Response via : Initial Calibration



(3) Ethanol (p)

5.551min (-0.001) 5560.20ug/L m

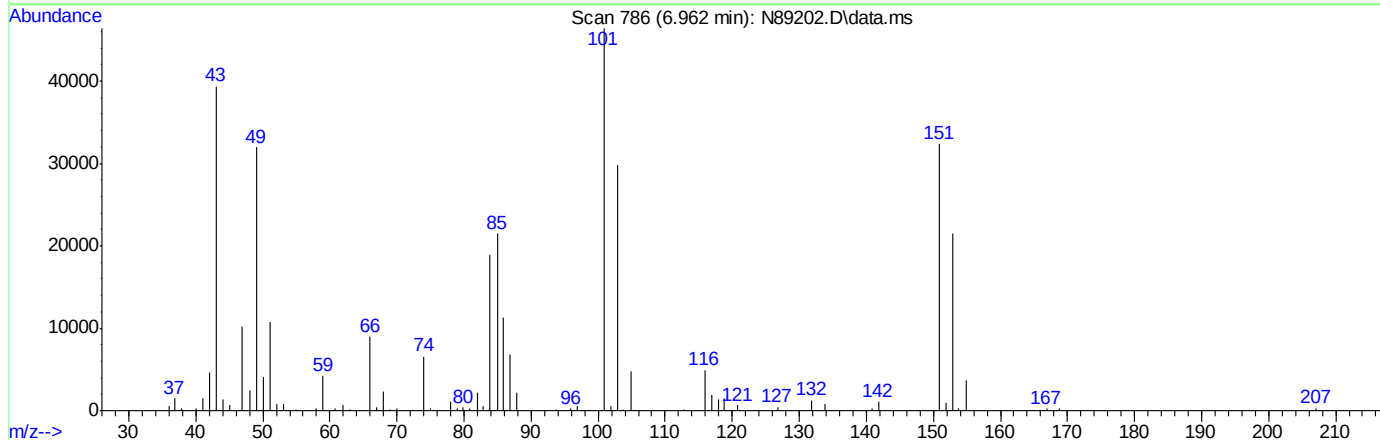
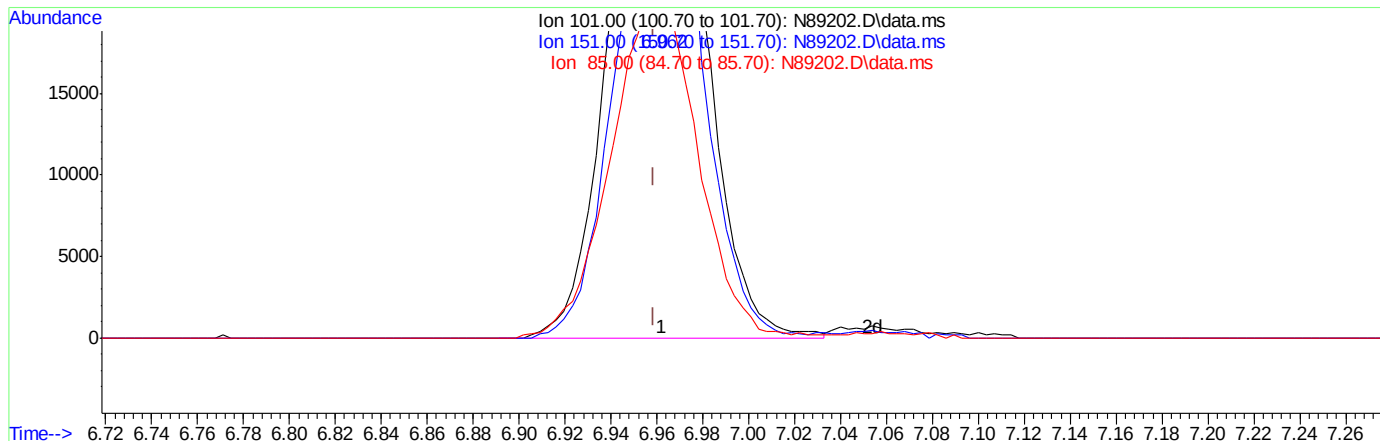
response 207799

Ion	Exp%	Act%
45.00	100	100
46.00	36.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140731\
Data File : N89202.D
Acq On : 31 Jul 2014 10:49 am
Operator : jaclynb
Sample : cc3306-50
Misc : ms32401,MSN3308,,,,5,1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 31 11:16:27 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 14:05:07 2014
Response via : Initial Calibration



TIC: N89202.D\data.ms

(13) freon-113 (p)

6.962min (+0.003) 70.05ug/L

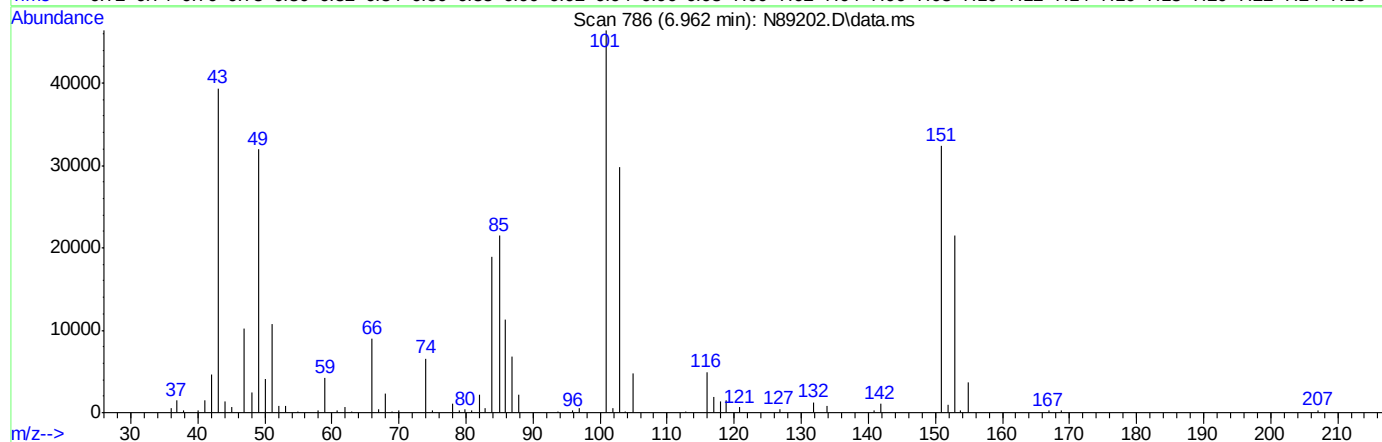
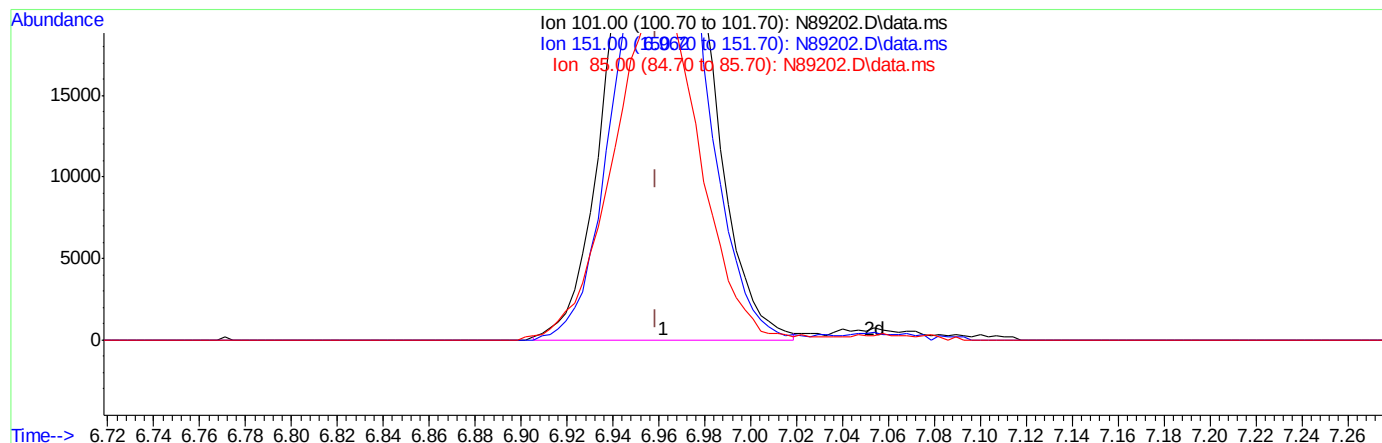
response 110800

Ion	Exp%	Act%
101.00	100	100
151.00	73.30	69.74
85.00	45.30	46.23
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140731\
Data File : N89202.D
Acq On : 31 Jul 2014 10:49 am
Operator : jaclynb
Sample : cc3306-50
Misc : ms32401,MSN3308,,,,5,1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 31 11:16:27 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 14:05:07 2014
Response via : Initial Calibration



TIC: N89202.D\data.ms

(13) freon-113 (p)

6.962min (+0.003) 69.69ug/L m

response 110444

Ion	Exp%	Act%
101.00	100	100
151.00	73.30	69.74
85.00	45.30	46.23
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140729\
 Data File : N89150.D
 Acq On : 29 Jul 2014 7:58 pm
 Operator : krystend
 Sample : IC3306-0.5
 Misc : ms32328,MSN3306,,,,5,1
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 30 09:06:42 2014
 Quant Method : C:\msdchem\1\methods\n140729w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Wed Jul 30 09:01:49 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.722	65	78858	500.00	ug/L	0.03
4) pentafluorobenzene	9.122	168	193799	50.00	ug/L	0.00
43) 1,4-difluorobenzene	9.992	114	287840	50.00	ug/L	0.00
66) chlorobenzene-d5	13.248	82	148258	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.800	152	95459	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	0.000	113	0d	0.00	ug/L	
Spiked Amount 50.000	Range 70 - 130		Recovery =	0.00%#		
60) toluene-d8 (s)	0.000	98	0d	0.00	ug/L	
Spiked Amount 50.000	Range 70 - 130		Recovery =	0.00%#		
82) bromofluorobenzene (s)	0.000	95	0d	0.00	ug/L	
Spiked Amount 50.000	Range 70 - 130		Recovery =	0.00%#		
Target Compounds						
47) benzene	9.801	78	4280	0.50	ug/L	Qvalue 94
51) trichloroethene	10.416	95	1512	0.62	ug/L	83
59) cis-1,3-dichloropropene	11.091	75	759m	0.23	ug/L	
63) trans-1,3-dichloropropene	11.516	75	729m	0.27	ug/L	
67) tetrachloroethene	12.597	166	869m	0.46	ug/L	
69) dibromochloromethane	12.205	129	689m	0.34	ug/L	
75) m,p-xylene	13.630	106	4073	1.15	ug/L #	62
76) o-xylene	14.047	106	1902	0.52	ug/L #	64
84) 1,1,2,2-tetrachloroethane	14.054	83	1190	0.70	ug/L	88

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

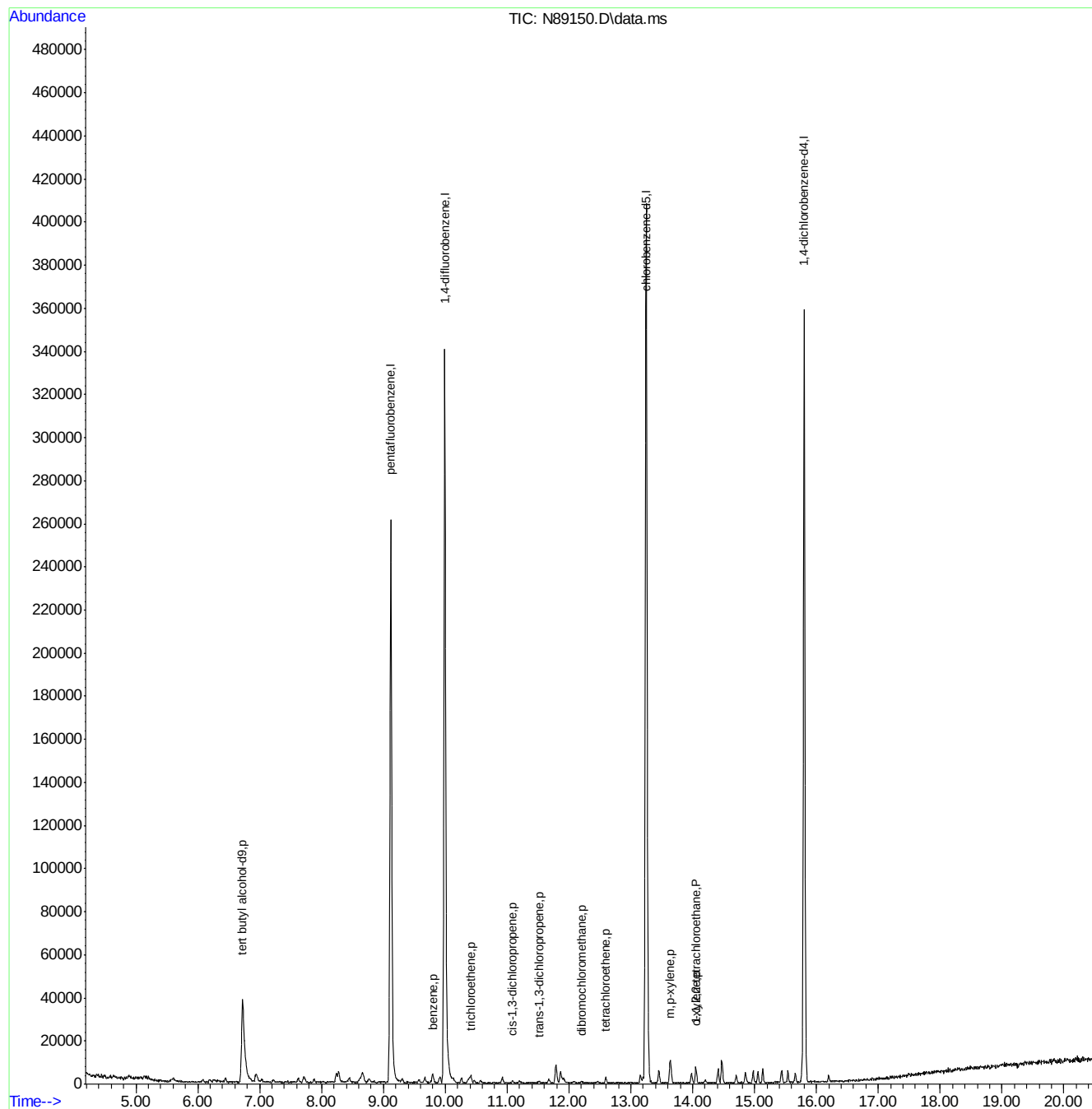
7.6.1

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89150.D
Acq On : 29 Jul 2014 7:58 pm
Operator : krystend
Sample : IC3306-0.5
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 23 Sample Multiplier: 1

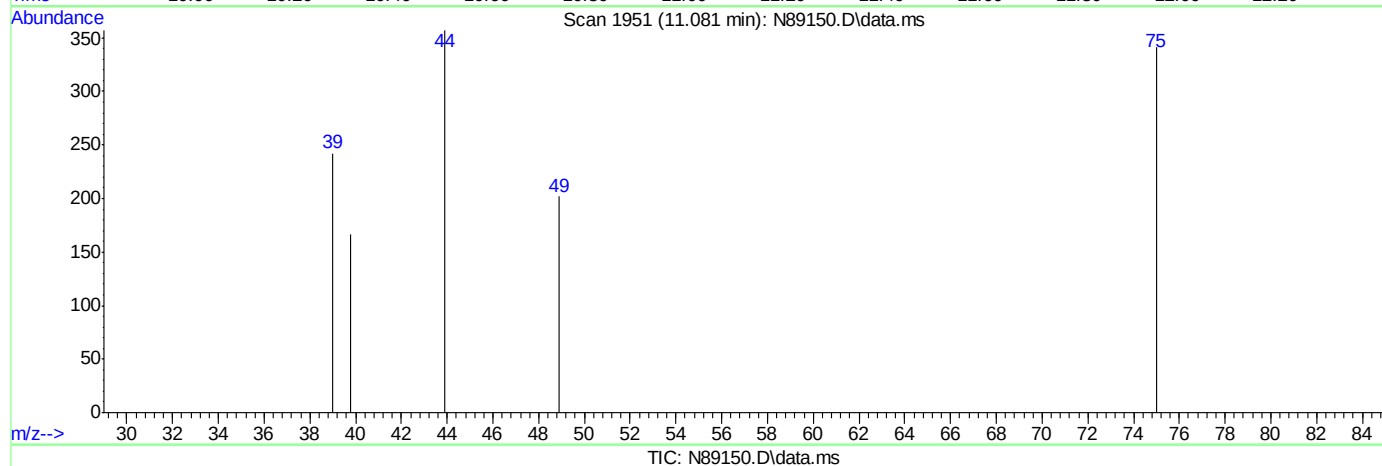
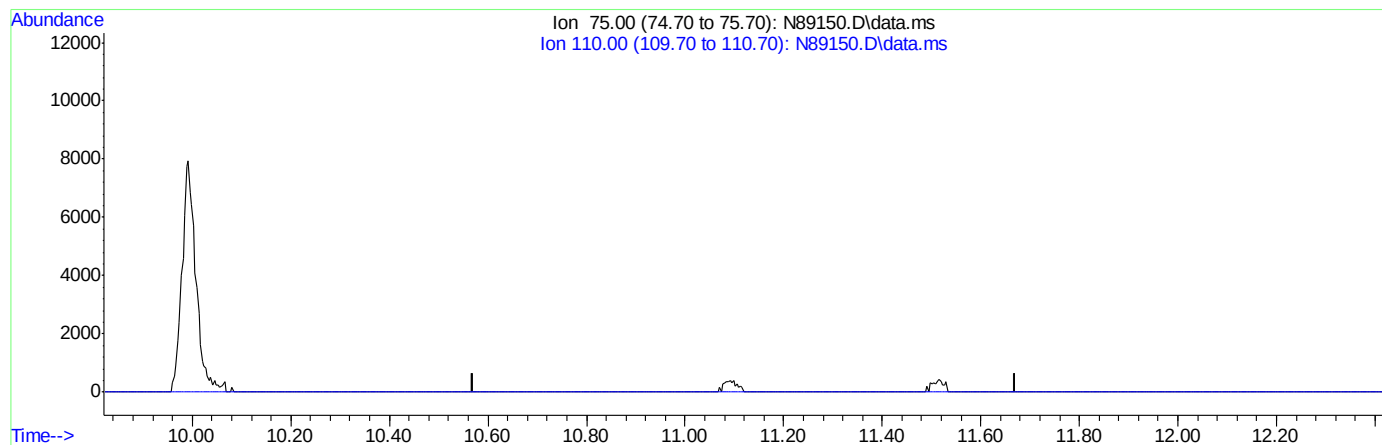
Quant Time: Jul 30 09:06:42 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:01:49 2014
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89150.D
Acq On : 29 Jul 2014 7:58 pm
Operator : krystend
Sample : IC3306-0.5
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 30 09:04:41 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:01:49 2014
Response via : Initial Calibration



(59) cis-1,3-dichloropropene (p)

11.081min (-11.081) 0.00ug/L

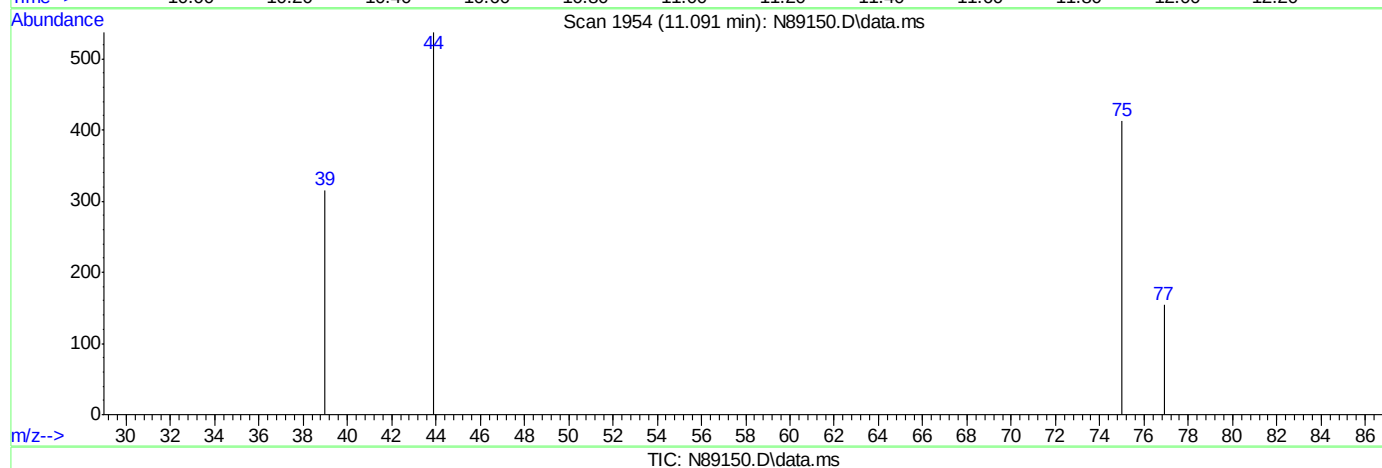
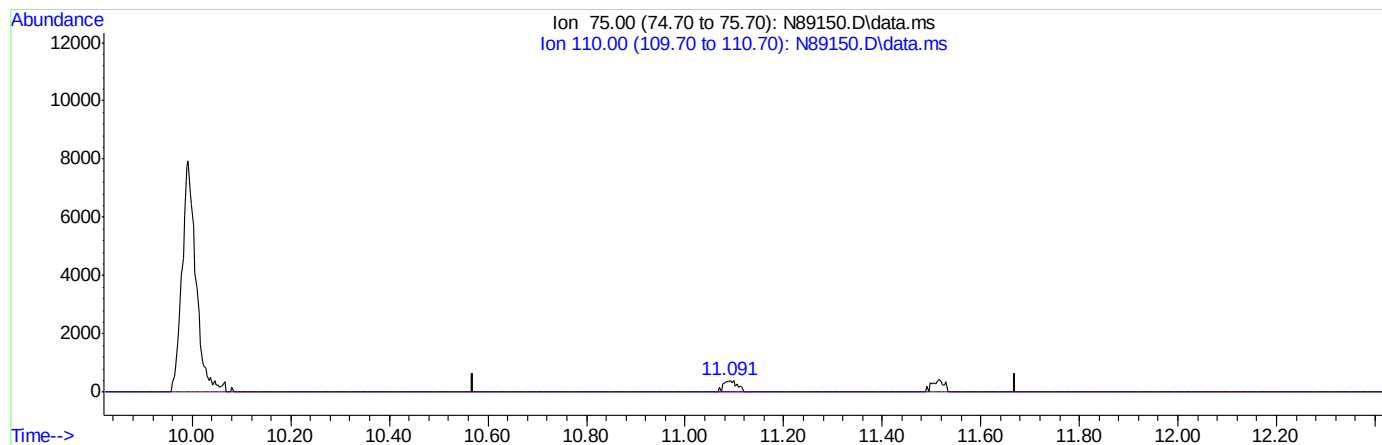
response 0

Ion	Exp%	Act%
75.00	100	0.00
110.00	20.30	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89150.D
Acq On : 29 Jul 2014 7:58 pm
Operator : krystend
Sample : IC3306-0.5
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 30 09:04:41 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:01:49 2014
Response via : Initial Calibration



(59) cis-1,3-dichloropropene (p)

11.091min (+0.011) 0.23ug/L m

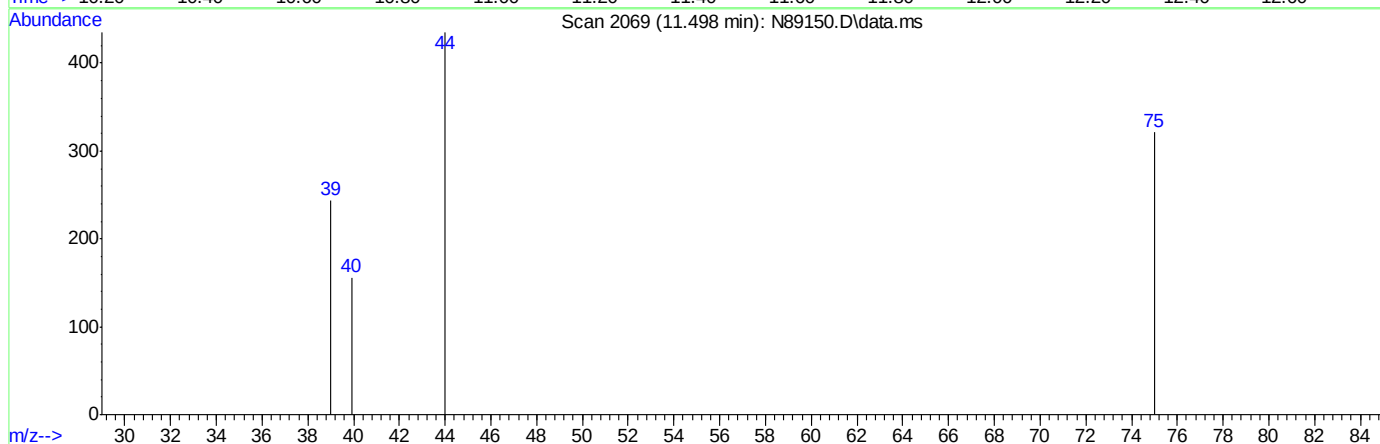
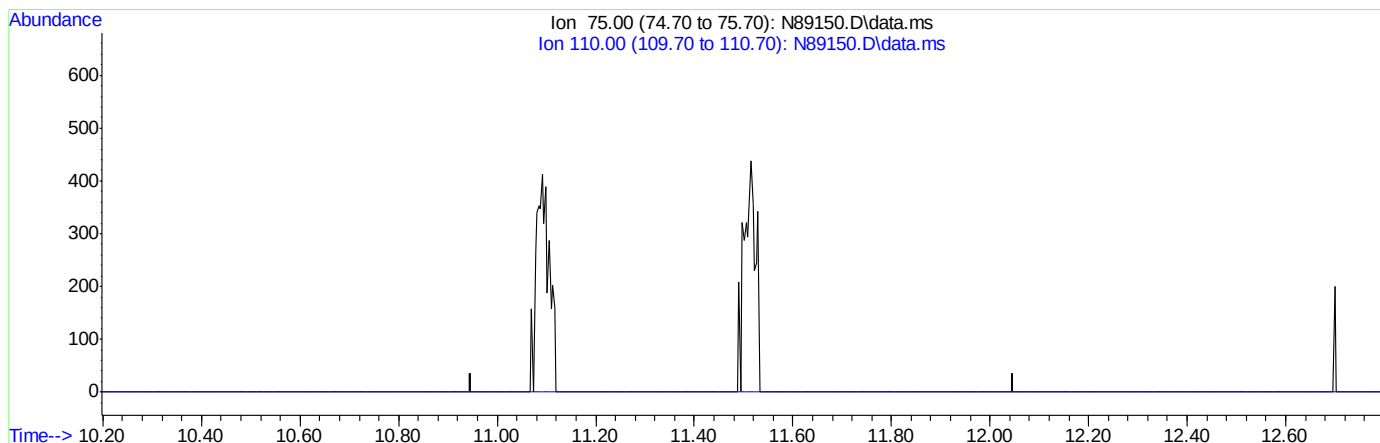
response 759

Ion	Exp%	Act%
75.00	100	100
110.00	20.30	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89150.D
Acq On : 29 Jul 2014 7:58 pm
Operator : krystend
Sample : IC3306-0.5
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 30 09:04:41 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:01:49 2014
Response via : Initial Calibration



TIC: N89150.D\data.ms

(63) trans-1,3-dichloropropene (p)

11.498min (-11.498) 0.00ug/L

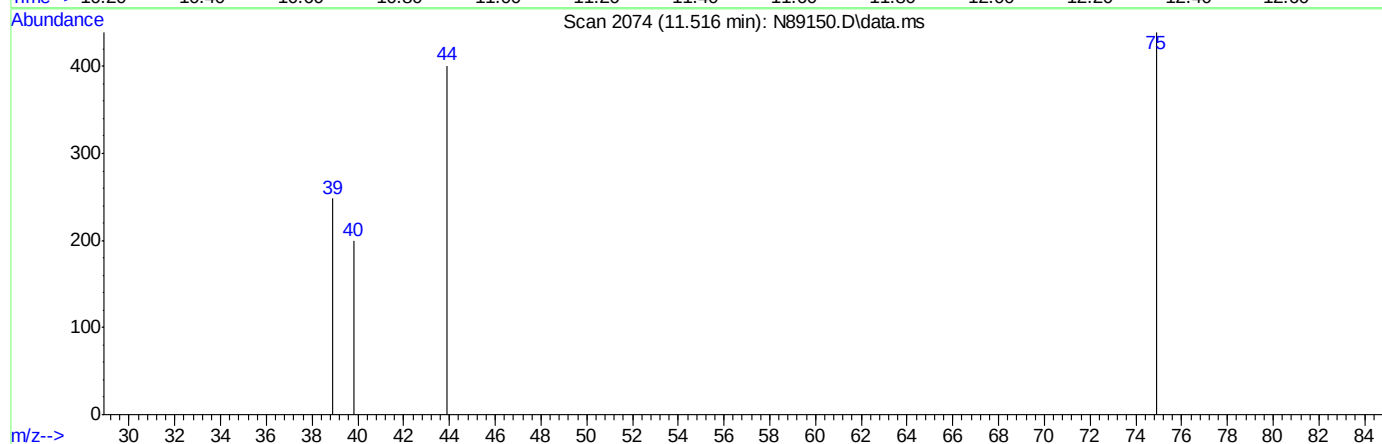
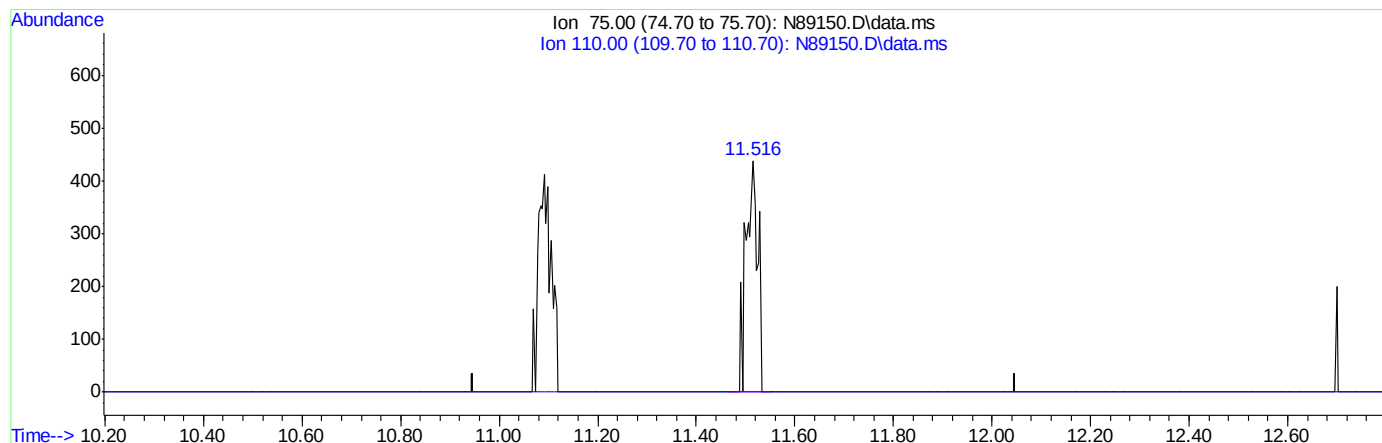
response 0

Ion	Exp%	Act%
75.00	100	0.00
110.00	21.90	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89150.D
Acq On : 29 Jul 2014 7:58 pm
Operator : krystend
Sample : IC3306-0.5
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 30 09:04:41 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:01:49 2014
Response via : Initial Calibration



TIC: N89150.D\data.ms

(63) trans-1,3-dichloropropene (p)

11.516min (+0.018) 0.27ug/L m

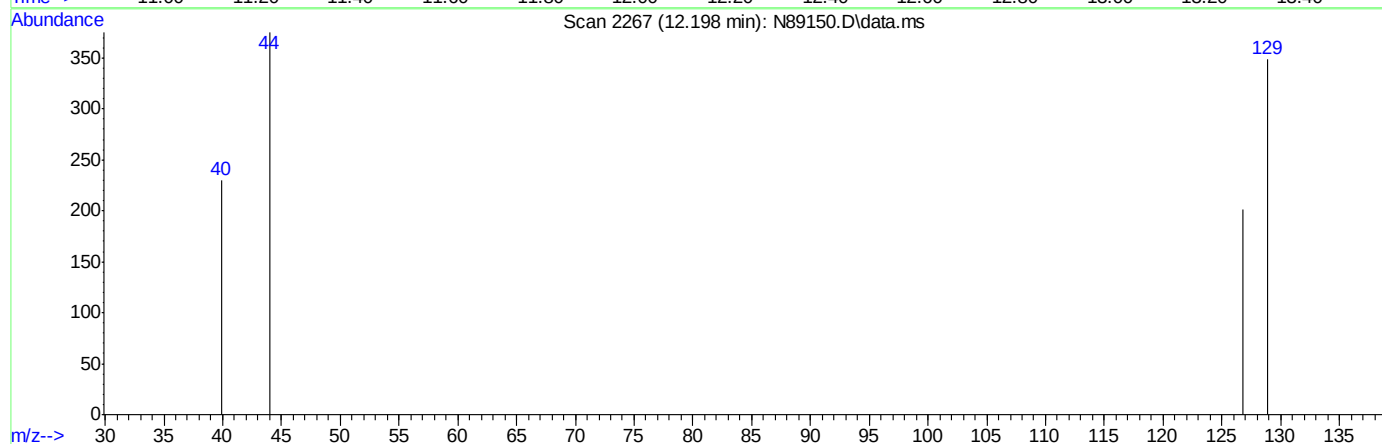
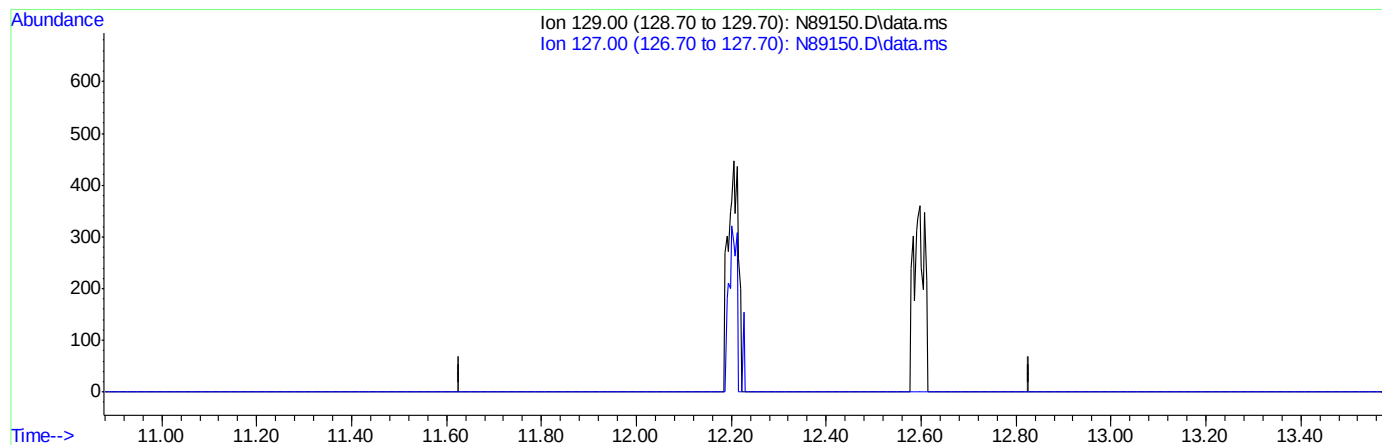
response 729

Ion	Exp%	Act%
75.00	100	100
110.00	21.90	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89150.D
Acq On : 29 Jul 2014 7:58 pm
Operator : krystend
Sample : IC3306-0.5
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 30 09:04:41 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:01:49 2014
Response via : Initial Calibration



TIC: N89150.D\data.ms

(69) dibromochloromethane (p)

12.198min (-12.198) 0.00ug/L

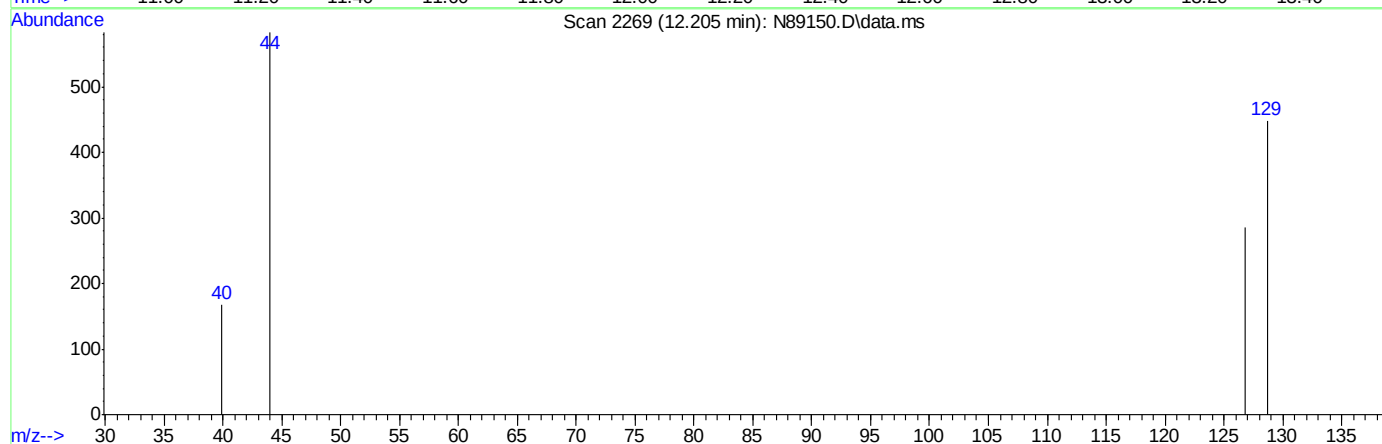
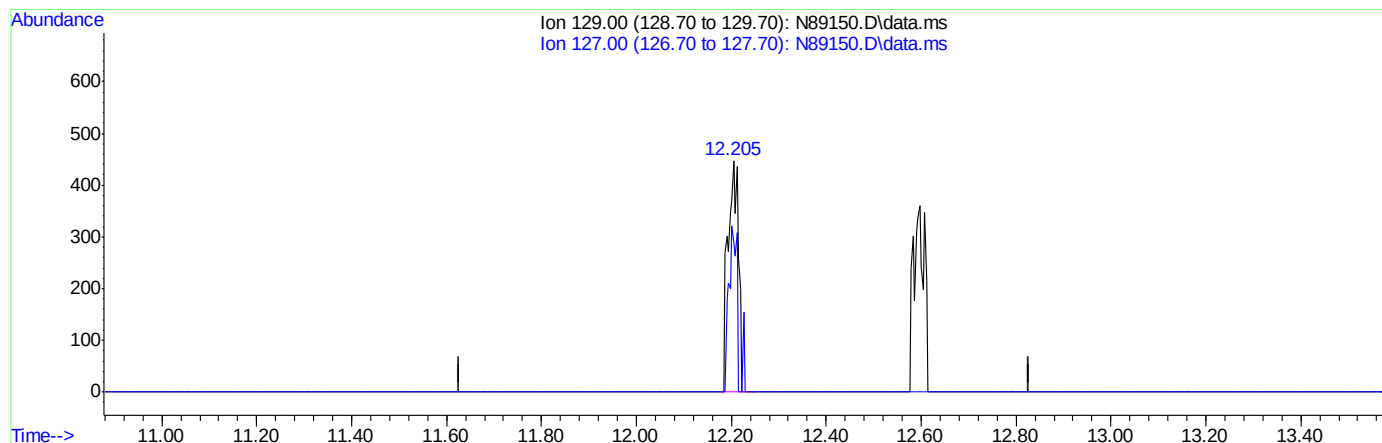
response 0

Ion	Exp%	Act%
129.00	100	0.00
127.00	75.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89150.D
Acq On : 29 Jul 2014 7:58 pm
Operator : krystend
Sample : IC3306-0.5
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 30 09:04:41 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:01:49 2014
Response via : Initial Calibration



TIC: N89150.D\data.ms

(69) dibromochloromethane (p)

12.205min (+0.007) 0.34ug/L m

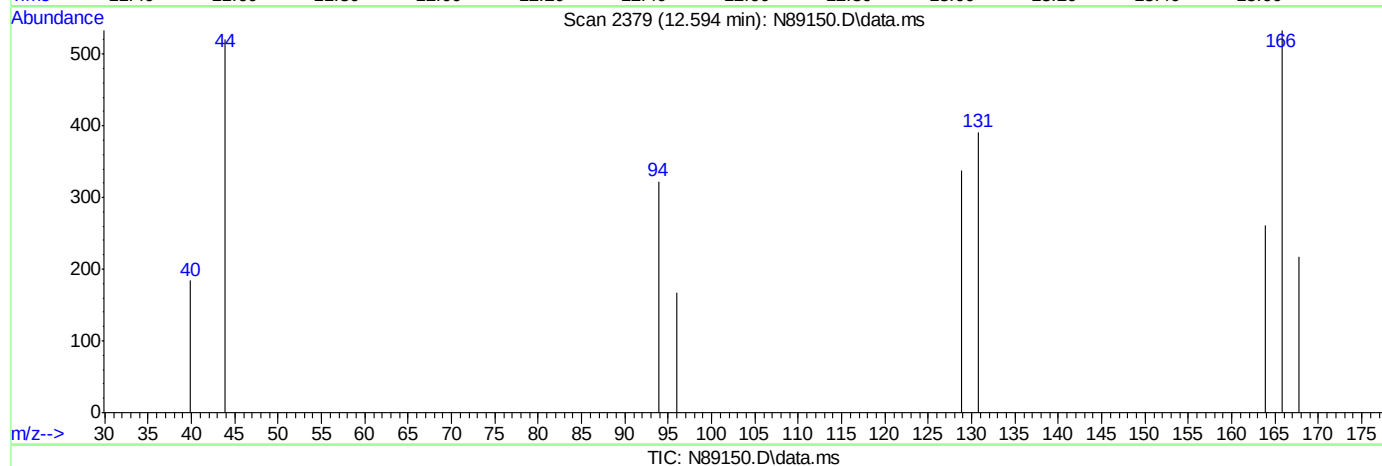
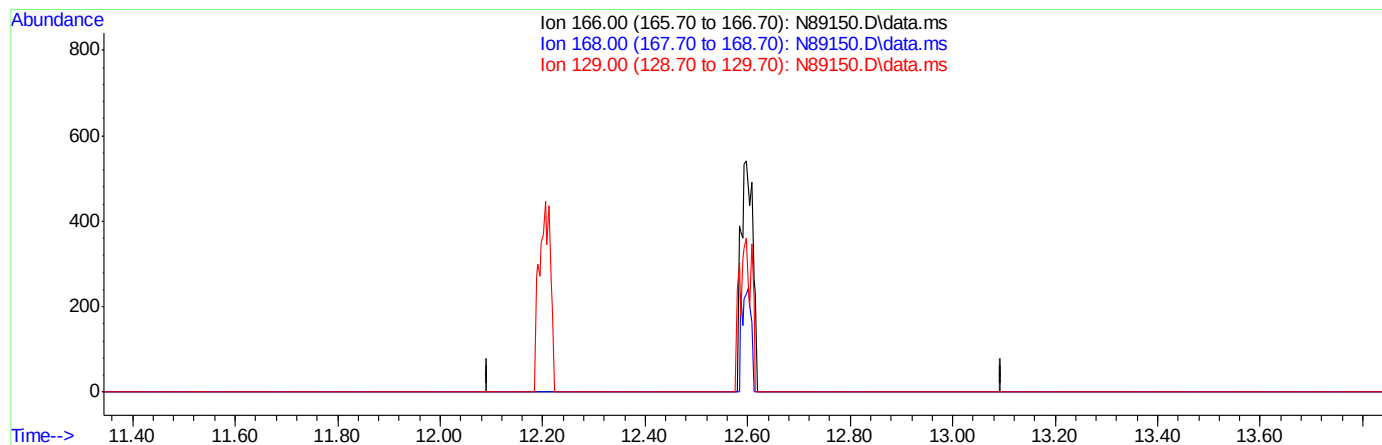
response 689

Ion	Exp%	Act%
129.00	100	100
127.00	75.00	63.84
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89150.D
Acq On : 29 Jul 2014 7:58 pm
Operator : krystend
Sample : IC3306-0.5
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 30 09:04:41 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:01:49 2014
Response via : Initial Calibration



(67) tetrachloroethene (p)

12.594min (-12.594) 0.00ug/L

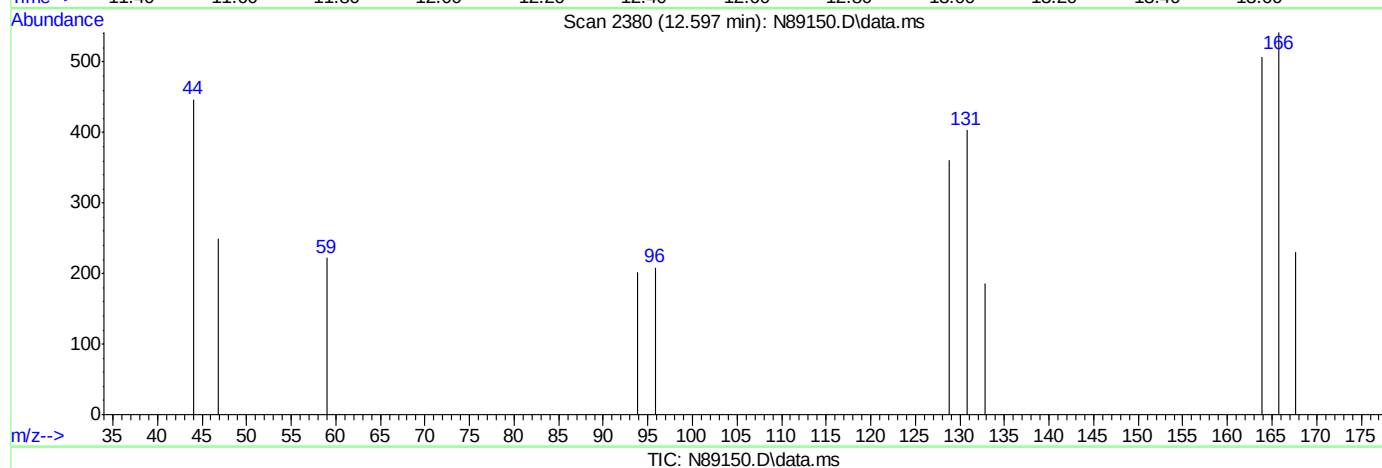
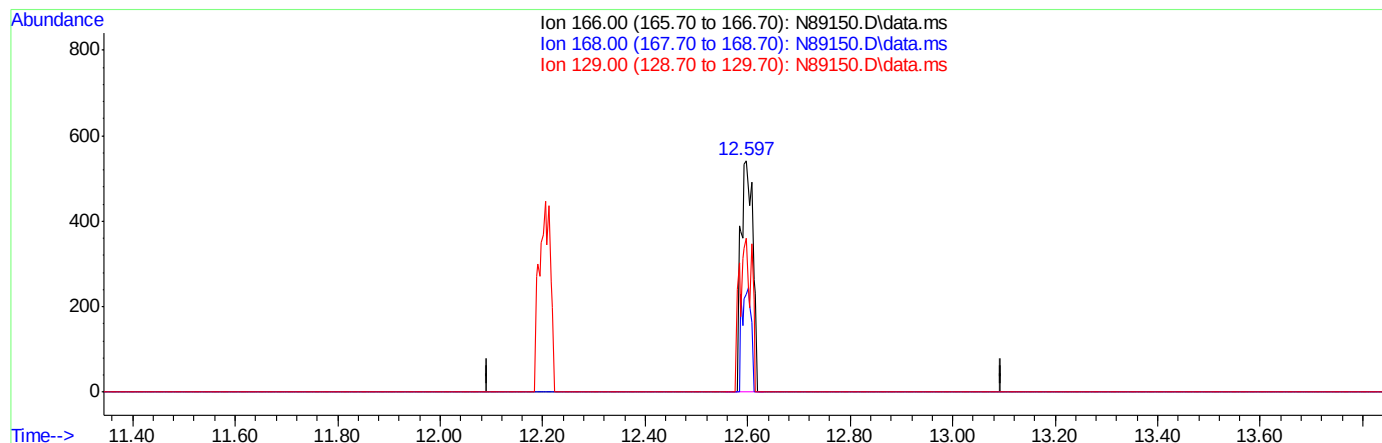
response 0

Ion	Exp%	Act%
166.00	100	0.00
168.00	48.20	0.00#
129.00	80.90	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89150.D
Acq On : 29 Jul 2014 7:58 pm
Operator : krystend
Sample : IC3306-0.5
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 30 09:04:41 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:01:49 2014
Response via : Initial Calibration



(67) tetrachloroethene (p)

12.597min (+0.003) 0.46ug/L m

response 869

Ion	Exp%	Act%
166.00	100	100
168.00	48.20	42.44
129.00	80.90	66.61
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140729\
 Data File : N89151.D
 Acq On : 29 Jul 2014 8:25 pm
 Operator : krystend
 Sample : IC3306-1
 Misc : ms32328,MSN3306,,,,5,1
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 30 09:10:11 2014
 Quant Method : C:\msdchem\1\methods\n140729w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Wed Jul 30 09:07:09 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.722	65	74072	500.00	ug/L	0.03
4) pentafluorobenzene	9.119	168	213120	50.00	ug/L	0.00
43) 1,4-difluorobenzene	9.992	114	319246	50.00	ug/L	0.00
66) chlorobenzene-d5	13.248	82	164244	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.800	152	107355	50.00	ug/L	0.00

System Monitoring Compounds						
40) dibromofluoromethane (s)	0.000	113	0d	0.00	ug/L	
Spiked Amount	50.000	Range	70 - 130	Recovery	=	0.00%#
60) toluene-d8 (s)	0.000	98	0d	0.00	ug/L	
Spiked Amount	50.000	Range	70 - 130	Recovery	=	0.00%#
82) bromofluorobenzene (s)	0.000	95	0d	0.00	ug/L	
Spiked Amount	50.000	Range	70 - 130	Recovery	=	0.00%#

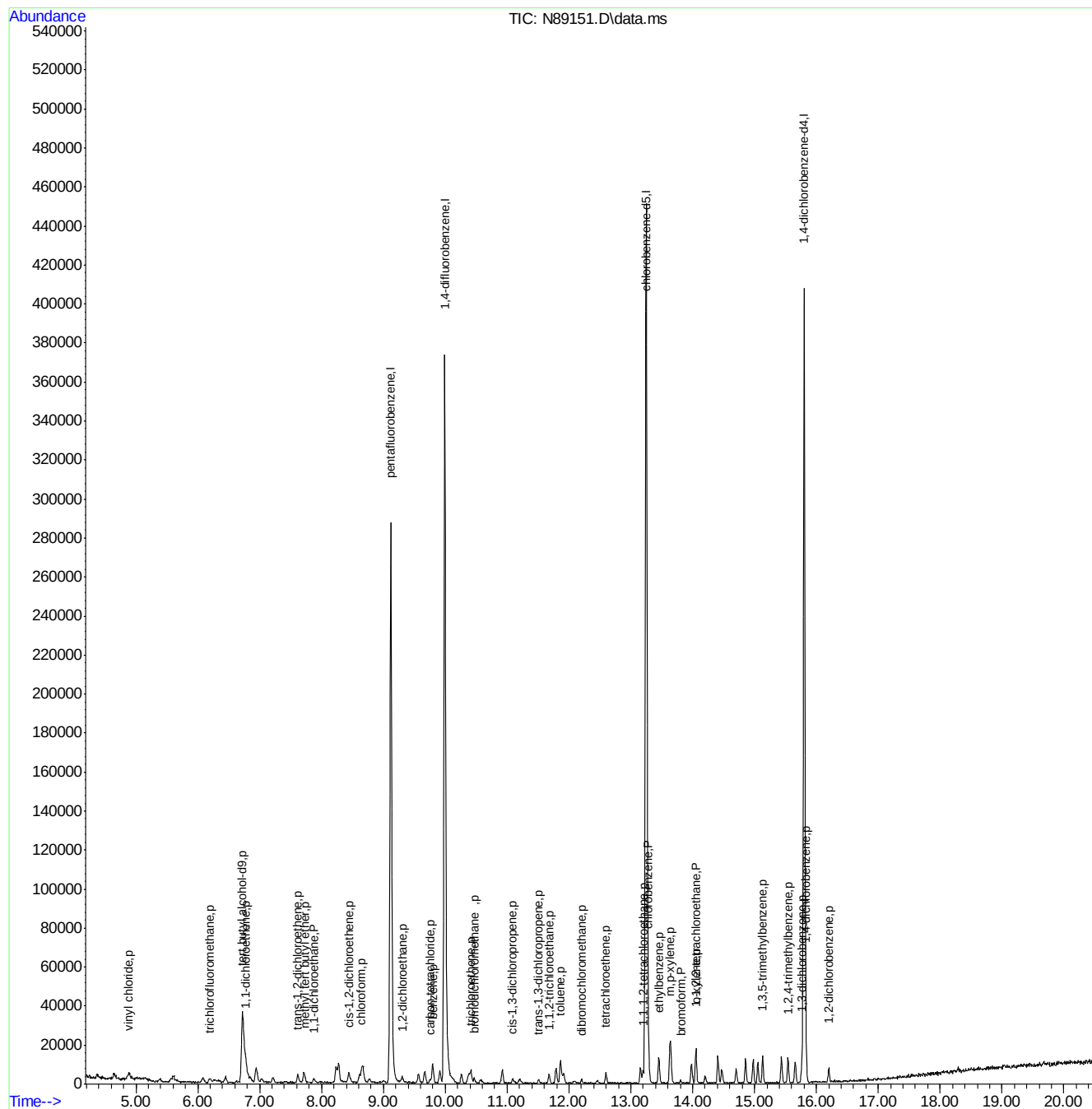
Target Compounds						Qvalue
7) vinyl chloride	4.887	62	2453	1.10	ug/L	71
12) trichlorofluoromethane	6.195	101	2456	0.85	ug/L	99
15) 1,1-dichloroethene	6.768	96	2471	1.37	ug/L	93
19) methyl tert butyl ether	7.722	73	5452	1.02	ug/L	99
22) trans-1,2-dichloroethene	7.616	96	1902	0.85	ug/L	# 62
32) 1,1-dichloroethane	7.874	63	3099	0.54	ug/L	92
36) cis-1,2-dichloroethene	8.443	96	2286	0.89	ug/L	88
39) chloroform	8.645	83	3904	0.88	ug/L	97
45) carbon tetrachloride	9.751	117	1242	0.47	ug/L	79
47) benzene	9.797	78	8859	0.94	ug/L	89
48) 1,2-dichloroethane	9.306	62	3139	0.80	ug/L	82
51) trichloroethene	10.416	95	2869	0.94	ug/L	93
54) bromodichloromethane	10.465	83	2527	0.71	ug/L	93
59) cis-1,3-dichloropropene	11.088	75	1918	0.71	ug/L	98
62) toluene	11.858	92	5659	0.96	ug/L	81
63) trans-1,3-dichloropropene	11.505	75	1359	0.59	ug/L	54
64) 1,1,2-trichloroethane	11.675	83	1460	0.82	ug/L	83
67) tetrachloroethene	12.597	166	1711	0.85	ug/L	88
69) dibromochloromethane	12.201	129	1455	0.77	ug/L	89
72) chlorobenzene	13.280	112	5793	0.97	ug/L	96
73) 1,1,1,2-tetrachloroethane	13.195	131	1764	0.79	ug/L	94
74) ethylbenzene	13.453	91	11010	0.97	ug/L	100
75) m,p-xylene	13.637	106	7790	1.85	ug/L	# 79
76) o-xylene	14.054	106	4276	1.04	ug/L	# 65
78) bromoform	13.810	173	701m	0.55	ug/L	
84) 1,1,2,2-tetrachloroethane	14.050	83	2360	1.03	ug/L	83
89) 1,3,5-trimethylbenzene	15.129	105	8607	1.12	ug/L	87
91) 1,2,4-trimethylbenzene	15.539	105	7628	1.00	ug/L	99
93) 1,3-dichlorobenzene	15.768	146	4031	1.02	ug/L	93
95) 1,4-dichlorobenzene	15.829	146	3895	1.08	ug/L	89
96) 1,2-dichlorobenzene	16.200	146	3215	0.84	ug/L	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89151.D
Acq On : 29 Jul 2014 8:25 pm
Operator : krystend
Sample : IC3306-1
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 24 Sample Multiplier: 1

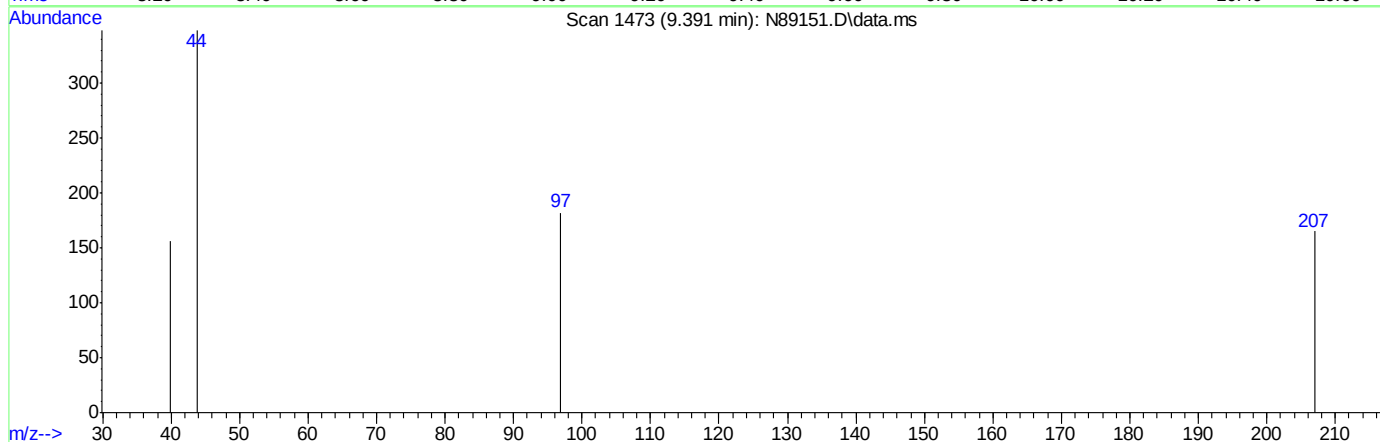
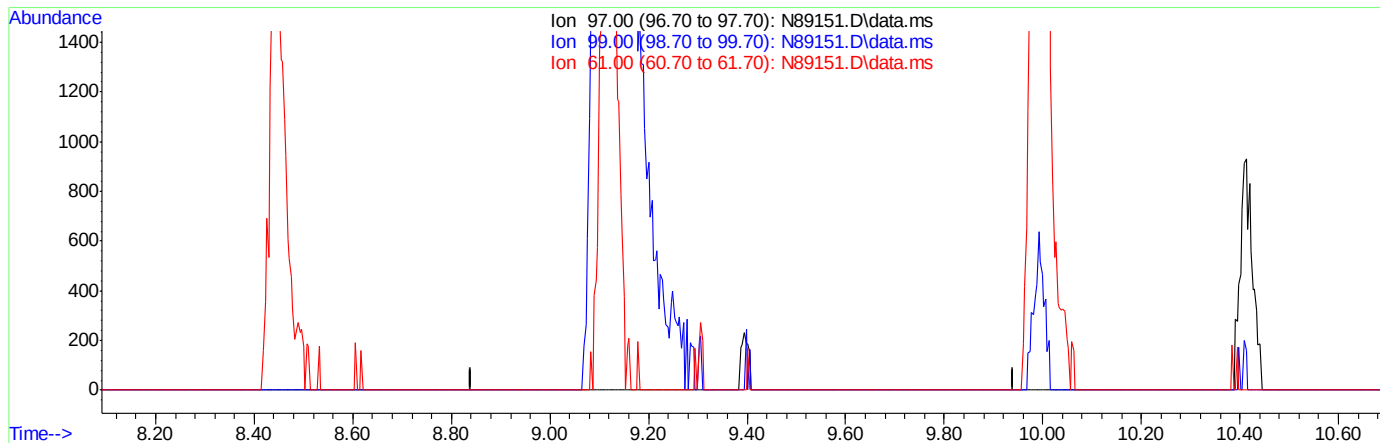
Quant Time: Jul 30 09:10:11 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:07:09 2014
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89151.D
Acq On : 29 Jul 2014 8:25 pm
Operator : krystend
Sample : IC3306-1
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 30 09:07:24 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:07:09 2014
Response via : Initial Calibration



TIC: N89151.D\data.ms

(42) 1,1,1-trichloroethane (p)

9.391min (-9.391) 0.00ug/L

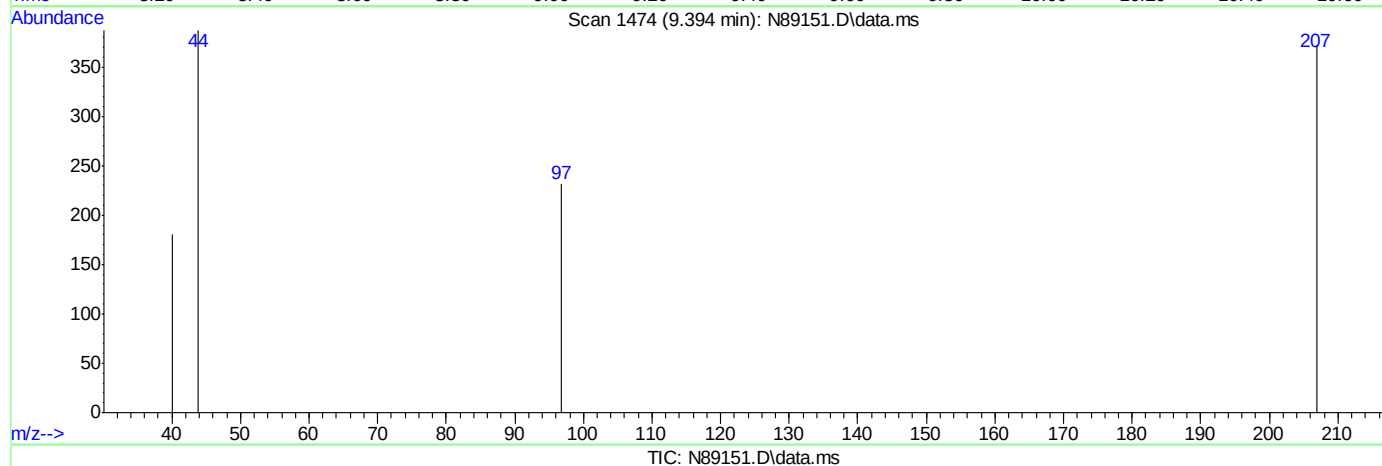
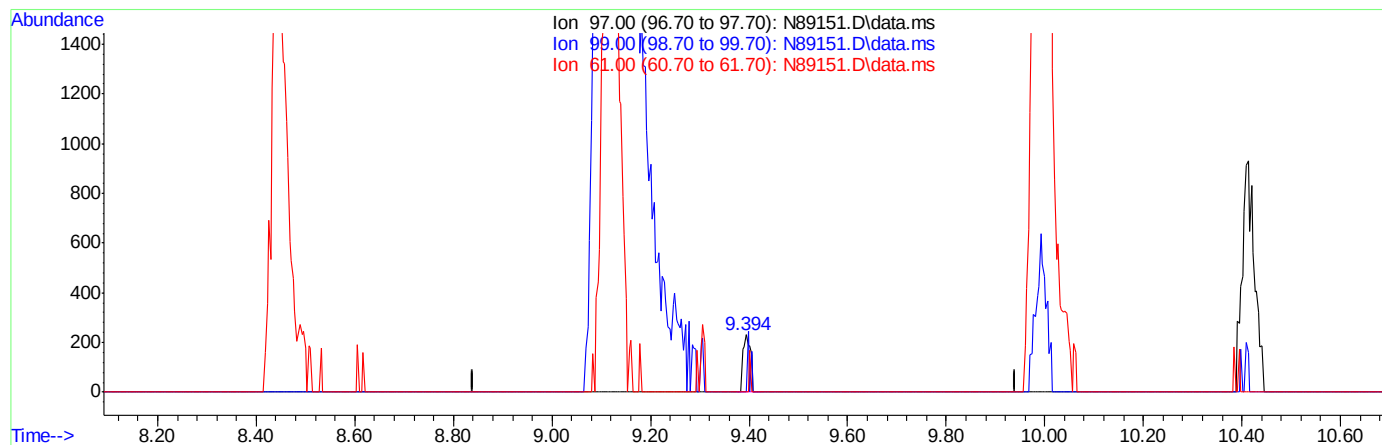
response 0

Ion	Exp%	Act%
97.00	100	0.00
99.00	64.70	0.00#
61.00	49.60	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89151.D
Acq On : 29 Jul 2014 8:25 pm
Operator : krystend
Sample : IC3306-1
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 30 09:07:24 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:07:09 2014
Response via : Initial Calibration



(42) 1,1,1-trichloroethane (p)

9.394min (+0.003) 0.06ug/L m

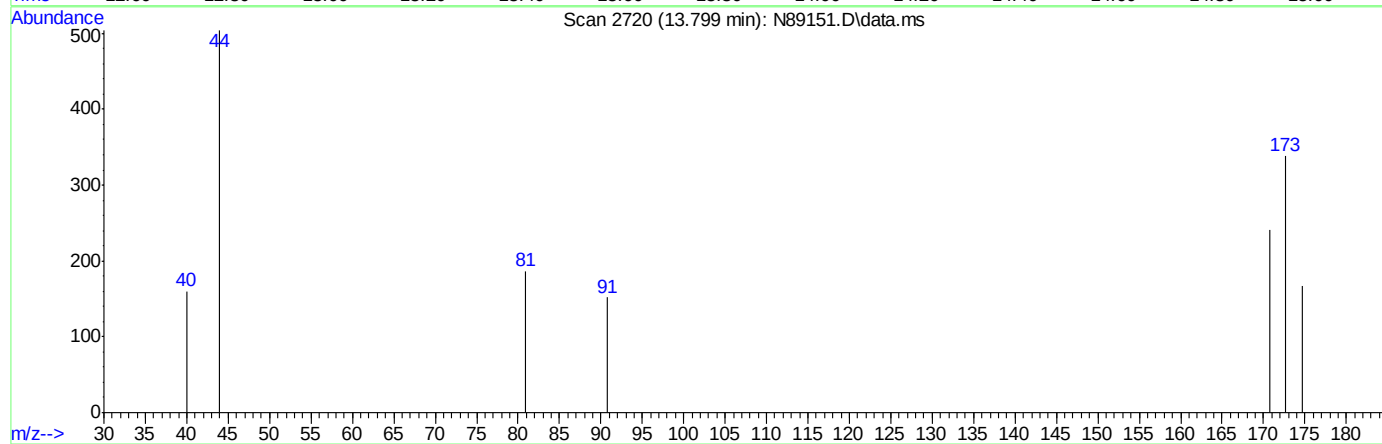
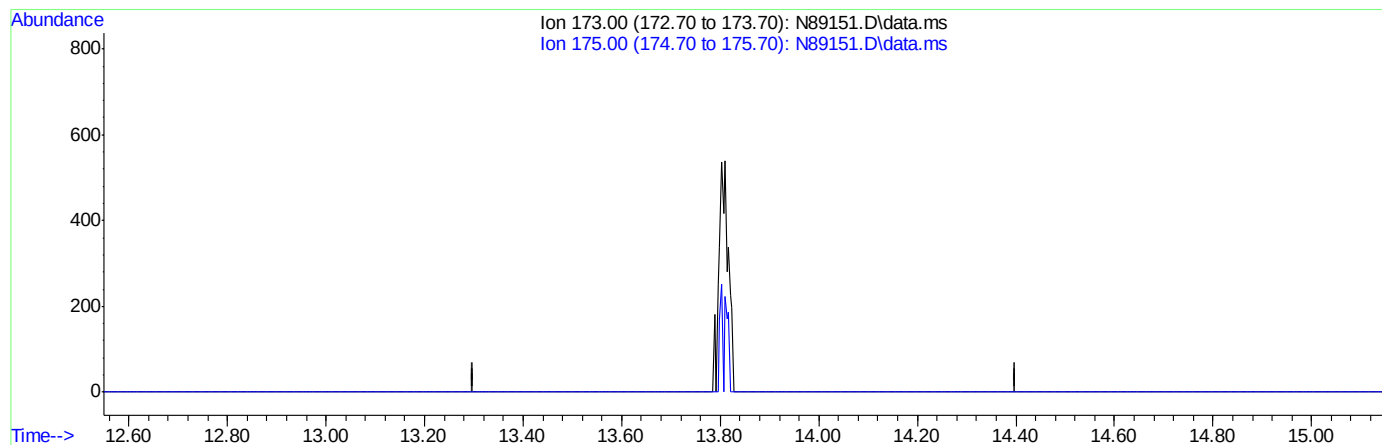
response 236

Ion	Exp%	Act%
97.00	100	100
99.00	64.70	0.00#
61.00	49.60	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89151.D
Acq On : 29 Jul 2014 8:25 pm
Operator : krystend
Sample : IC3306-1
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 30 09:07:24 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:07:09 2014
Response via : Initial Calibration



TIC: N89151.D\data.ms

(78) bromoform (P)

13.799min (-13.799) 0.00ug/L

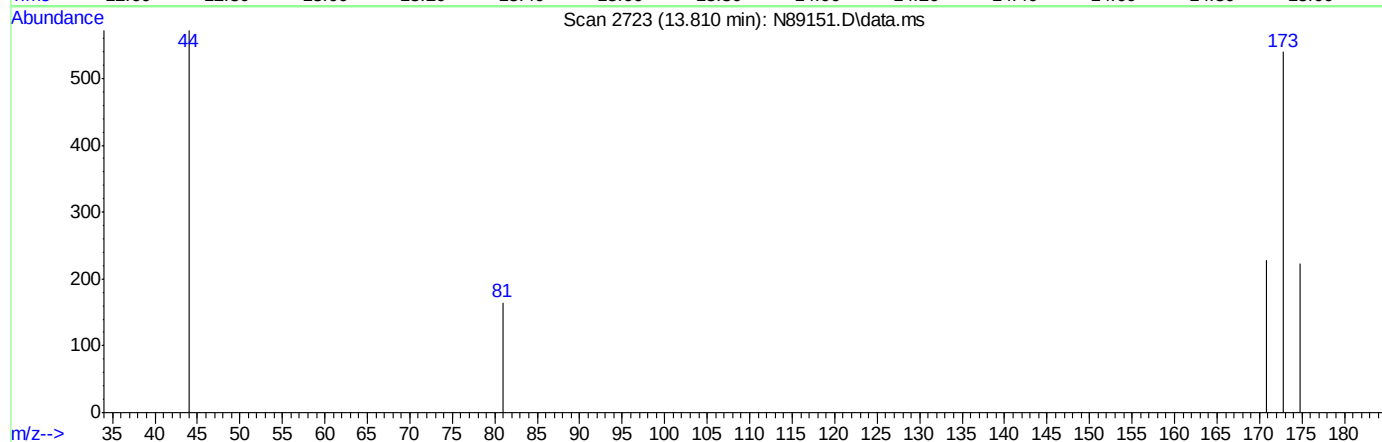
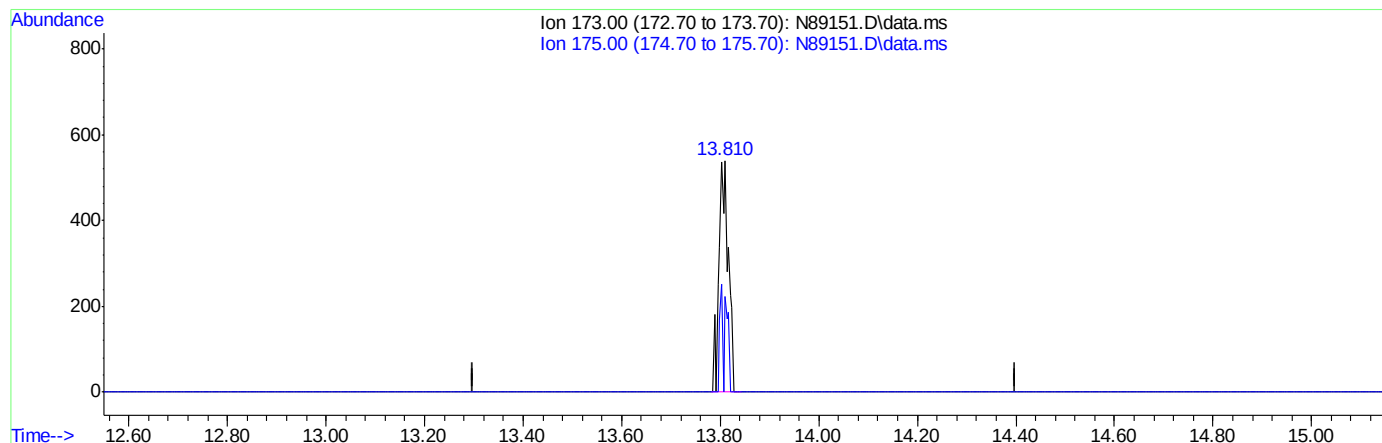
response 0

Ion	Exp%	Act%
173.00	100	0.00
175.00	47.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89151.D
Acq On : 29 Jul 2014 8:25 pm
Operator : krystend
Sample : IC3306-1
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jul 30 09:07:24 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:07:09 2014
Response via : Initial Calibration



TIC: N89151.D\data.ms

(78) bromoform (P)

13.810min (+0.010) 0.55ug/L m

response 701

Ion	Exp%	Act%
173.00	100	100
175.00	47.00	41.30
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140729\
 Data File : N89152.D
 Acq On : 29 Jul 2014 8:53 pm
 Operator : krystend
 Sample : IC3306-2
 Misc : ms32328,MSN3306,,,,,5,1
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 30 11:33:54 2014
 Quant Method : C:\msdchem\1\methods\n140729w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Wed Jul 30 11:23:55 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.725	65	72633	500.00	ug/L	0.03
4) pentafluorobenzene	9.119	168	218669	50.00	ug/L	0.00
43) 1,4-difluorobenzene	9.992	114	325303	50.00	ug/L	0.00
66) chlorobenzene-d5	13.248	82	167122	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.804	152	111923	50.00	ug/L	0.00

System Monitoring Compounds						
40) dibromofluoromethane (s)	0.000	113	0d	0.00	ug/L	
Spiked Amount	50.000	Range	70 - 130	Recovery	=	0.00%#
60) toluene-d8 (s)	0.000	98	0d	0.00	ug/L	
Spiked Amount	50.000	Range	70 - 130	Recovery	=	0.00%#
82) bromofluorobenzene (s)	0.000	95	0d	0.00	ug/L	
Spiked Amount	50.000	Range	70 - 130	Recovery	=	0.00%#

Target Compounds						Qvalue
2) tertiary butyl alcohol	6.796	59	4887	18.94	ug/L	# 100
3) Ethanol	5.587	45	6203	177.73	ug/L	# 38
5) dichlorodifluoromethane	4.378	85	3607	1.46	ug/L	97
6) chloromethane	4.650	50	6123	1.71	ug/L	90
7) vinyl chloride	4.876	62	4621	1.86	ug/L	89
8) bromomethane	5.382	96	2489	1.59	ug/L	87
9) chloroethane	5.559	64	3255	1.68	ug/L	100
12) trichlorofluoromethane	6.191	101	4776	1.54	ug/L	87
15) 1,1-dichloroethene	6.775	96	5099	2.48	ug/L	87
18) methylene chloride	6.941	84	4798	1.98	ug/L	95
19) methyl tert butyl ether	7.712	73	9398	1.75	ug/L	100
21) allyl chloride	7.022	41	3393m	1.91	ug/L	
22) trans-1,2-dichloroethene	7.623	96	3629	1.64	ug/L	# 76
28) di-isopropyl ether	8.274	45	19398	1.88	ug/L	85
32) 1,1-dichloroethane	7.871	63	7148	1.70	ug/L	88
33) tert-butyl ethyl ether	8.666	59	11166	10.08	ug/L	97
36) cis-1,2-dichloroethene	8.450	96	4731	1.83	ug/L	# 73
39) chloroform	8.645	83	7772	1.76	ug/L	91
42) 1,1,1-trichloroethane	9.401	97	898m	4.25	ug/L	
45) carbon tetrachloride	9.755	117	3332	1.93	ug/L	86
47) benzene	9.797	78	16972	1.82	ug/L	87
48) 1,2-dichloroethane	9.295	62	6092	1.58	ug/L	95
49) tert-amyl methyl ether	9.910	73	9253	2.04	ug/L	92
51) trichloroethene	10.416	95	5346	1.87	ug/L	88
52) 1,2-dichloropropane	10.377	63	4389	1.42	ug/L	93
53) dibromomethane	10.356	93	2262	1.66	ug/L	90
54) bromodichloromethane	10.462	83	5203	1.55	ug/L	91
59) cis-1,3-dichloropropene	11.088	75	4067	1.60	ug/L	90
62) toluene	11.862	92	10703	1.86	ug/L	100
63) trans-1,3-dichloropropene	11.512	75	3339	1.46	ug/L	87
64) 1,1,2-trichloroethane	11.678	83	3070	1.75	ug/L	# 80
67) tetrachloroethene	12.597	166	3927	1.90	ug/L	82
69) dibromochloromethane	12.201	129	3107	1.67	ug/L	93
70) 1,2-dibromoethane	12.456	107	3166	1.69	ug/L	70

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89152.D
Acq On : 29 Jul 2014 8:53 pm
Operator : krystend
Sample : IC3306-2
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 30 11:33:54 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 11:23:55 2014
Response via : Initial Calibration

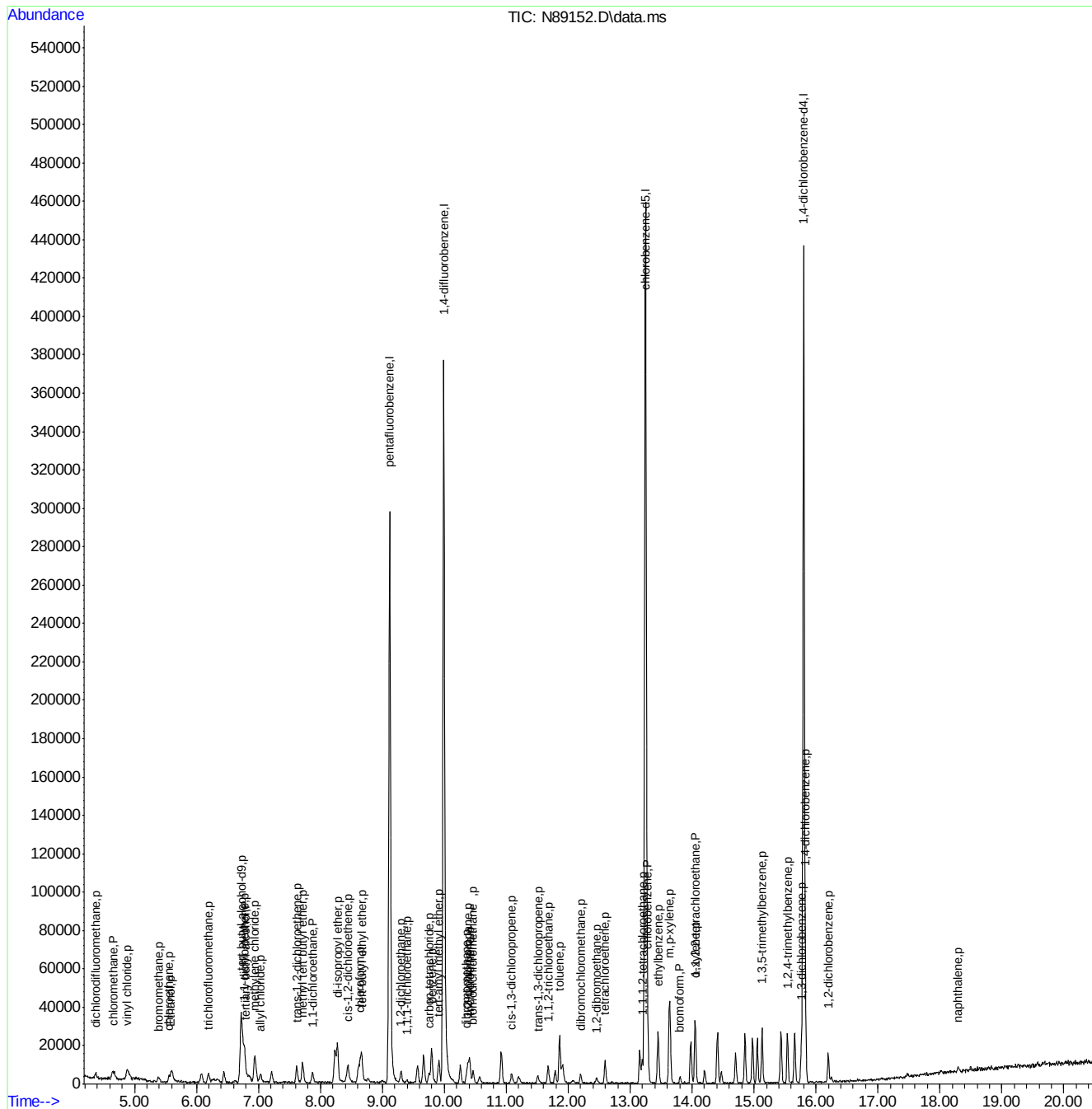
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
72) chlorobenzene	13.283	112	11501	1.89	ug/L	95
73) 1,1,1,2-tetrachloroethane	13.195	131	3613	1.67	ug/L	97
74) ethylbenzene	13.453	91	21841	1.90	ug/L	100
75) m,p-xylene	13.633	106	14918	3.72	ug/L	94
76) o-xylene	14.047	106	7908	1.91	ug/L	97
78) bromoform	13.803	173	1699	1.97	ug/L	91
84) 1,1,2,2-tetrachloroethane	14.054	83	4161	1.92	ug/L	91
89) 1,3,5-trimethylbenzene	15.129	105	17019	2.01	ug/L	92
91) 1,2,4-trimethylbenzene	15.539	105	15254	1.88	ug/L	98
93) 1,3-dichlorobenzene	15.765	146	7609	1.83	ug/L	98
95) 1,4-dichlorobenzene	15.825	146	7769	2.02	ug/L	98
96) 1,2-dichlorobenzene	16.196	146	6468	1.70	ug/L	98
102) naphthalene	18.293	128	2369	0.81	ug/L	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89152.D
Acq On : 29 Jul 2014 8:53 pm
Operator : krystend
Sample : IC3306-2
Misc : ms32328,MSN3306,,,5,1
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 30 11:33:54 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 11:23:55 2014
Response via : Initial Calibration



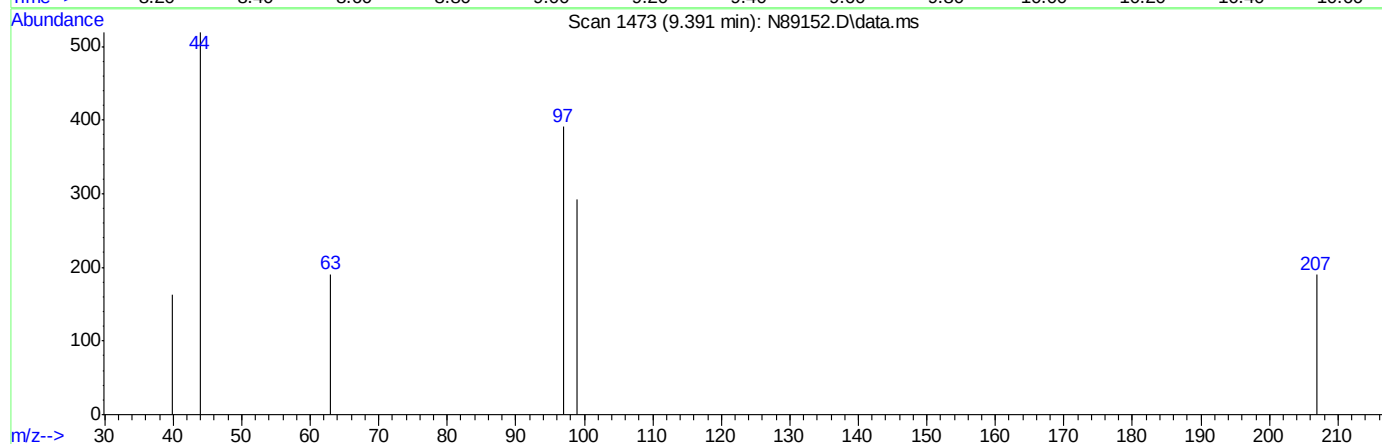
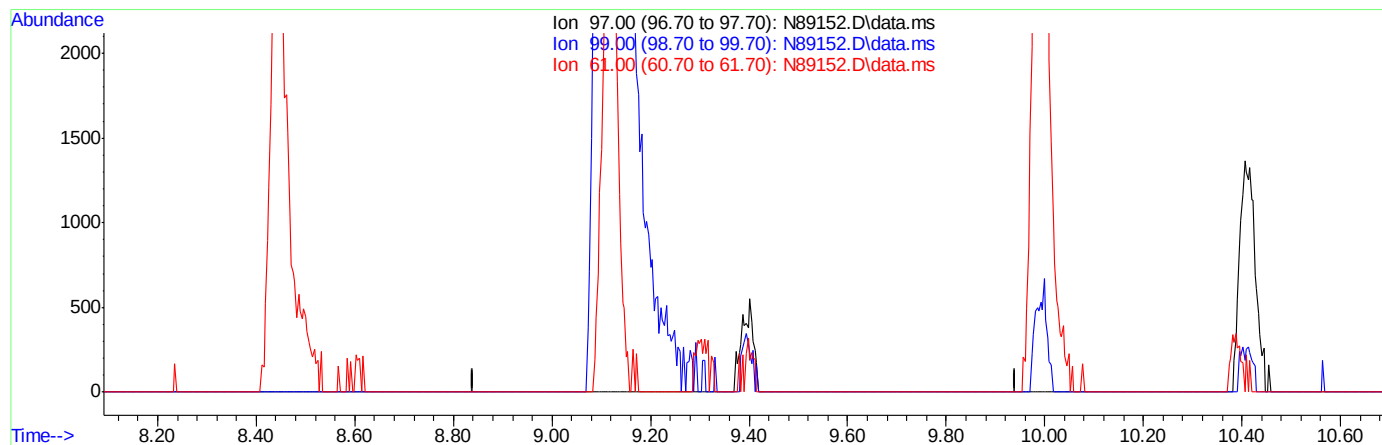
n140729w.m Wed Jul 30 12:18:44 2014

Page: 3

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89152.D
Acq On : 29 Jul 2014 8:53 pm
Operator : krystend
Sample : IC3306-2
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 30 09:11:08 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:10:36 2014
Response via : Initial Calibration



TIC: N89152.D\data.ms

(42) 1,1,1-trichloroethane (p)

9.391min (-9.391) 0.00ug/L

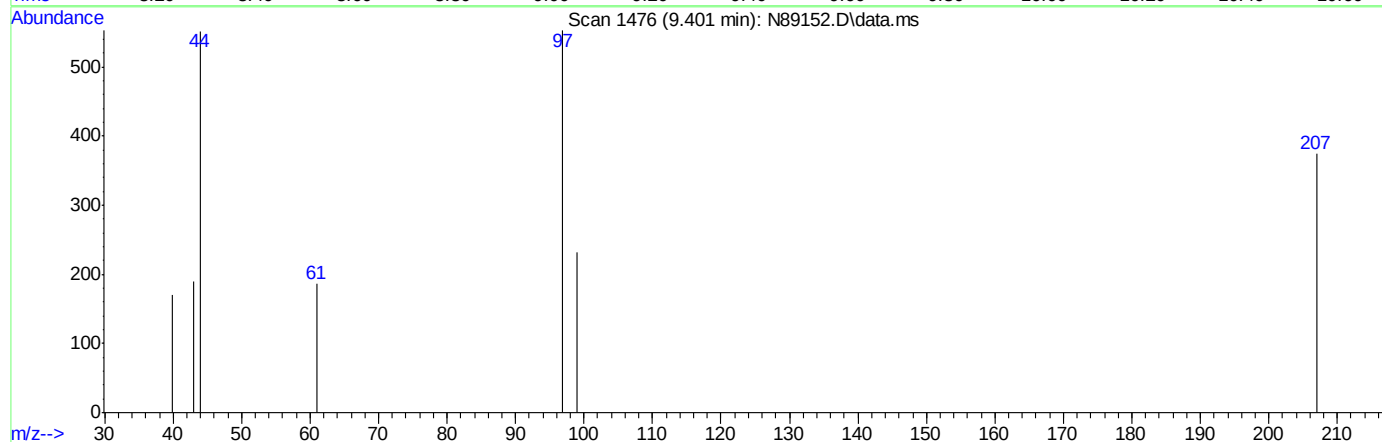
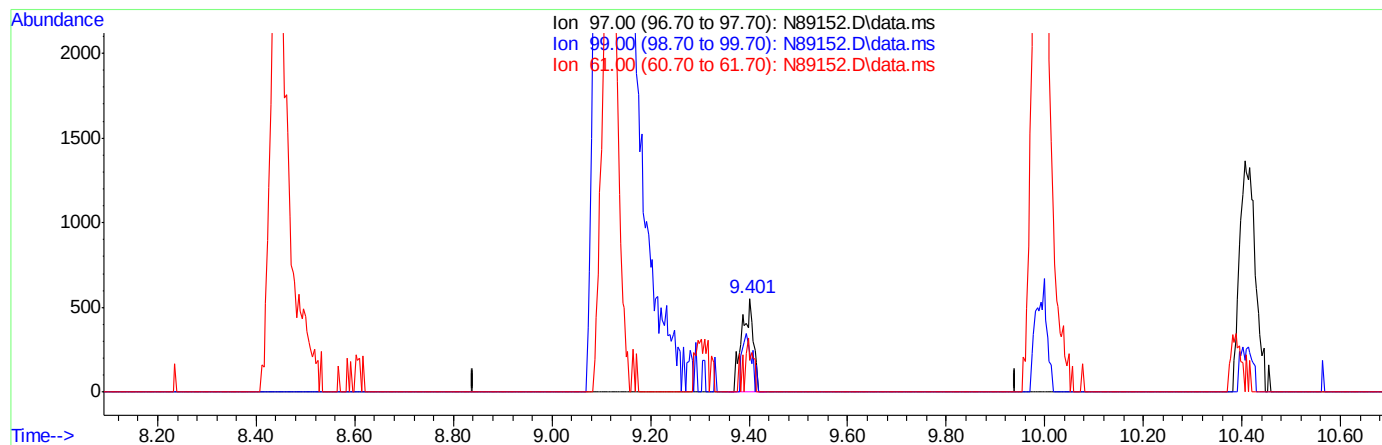
response 0

Ion	Exp%	Act%
97.00	100	0.00
99.00	64.70	0.00#
61.00	49.60	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89152.D
Acq On : 29 Jul 2014 8:53 pm
Operator : krystend
Sample : IC3306-2
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 30 09:11:08 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:10:36 2014
Response via : Initial Calibration



TIC: N89152.D\data.ms

(42) 1,1,1-trichloroethane (p)

9.401min (+0.011) 0.44ug/L m

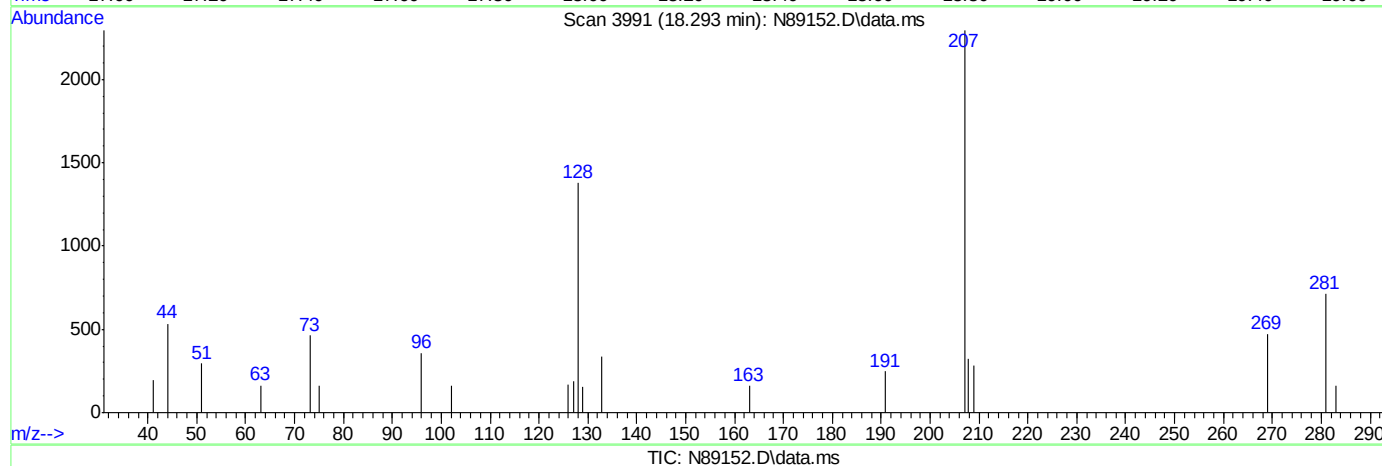
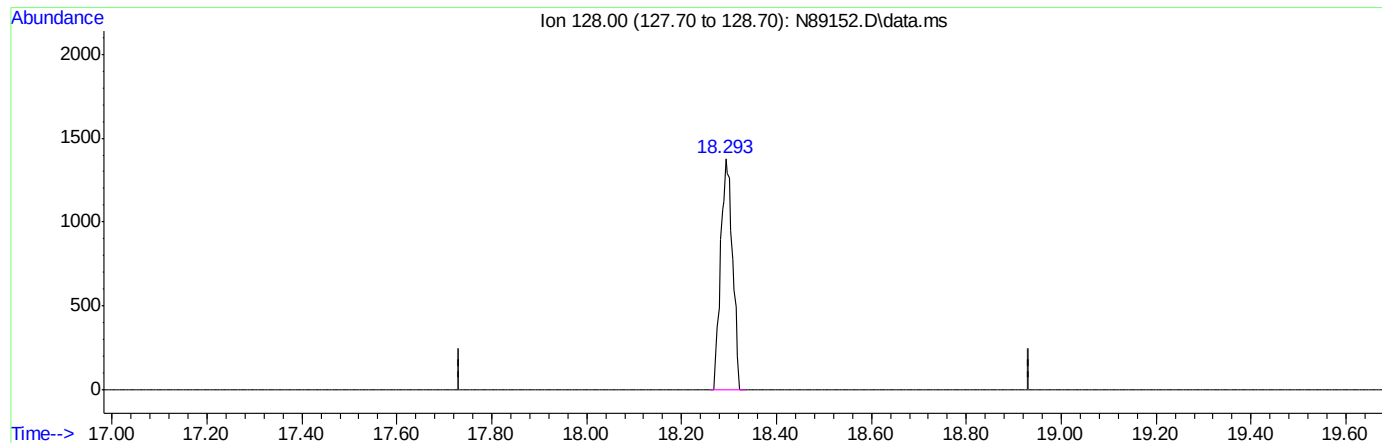
response 898

Ion	Exp%	Act%
97.00	100	100
99.00	64.70	41.95
61.00	49.60	33.63
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89152.D
Acq On : 29 Jul 2014 8:53 pm
Operator : krystend
Sample : IC3306-2
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jul 30 09:13:43 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:10:36 2014
Response via : Initial Calibration



(102) naphthalene (p)

18.293min (-0.000) 1.96ug/L m

response 2368

Ion	Exp%	Act%
128.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89153.D
Acq On : 29 Jul 2014 9:20 pm
Operator : krystend
Sample : IC3306-5
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 30 09:36:25 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:14:42 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.722	65	90420	500.00	ug/L	0.03
4) pentafluorobenzene	9.118	168	219688	50.00	ug/L	0.00
43) 1,4-difluorobenzene	9.992	114	332046	50.00	ug/L	0.00
66) chlorobenzene-d5	13.244	82	171877	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.800	152	121529	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.768	113	12697	4.84	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	9.68%#		
60) toluene-d8 (s)	11.788	98	47932	4.72	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	9.44%#		
82) bromofluorobenzene (s)	14.471	95	20342	5.66	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	11.32%#		
Target Compounds						
					Qvalue	
2) tertiary butyl alcohol	6.803	59	12670	41.02	ug/L	# 100
3) Ethanol	5.573	45	18825	439.72	ug/L	98
5) dichlorodifluoromethane	4.385	85	13294	6.49	ug/L	90
6) chloromethane	4.639	50	21197	6.58	ug/L	95
7) vinyl chloride	4.890	62	15802	6.62	ug/L	98
8) bromomethane	5.385	96	7522	5.30	ug/L	98
9) chloroethane	5.562	64	11329	6.47	ug/L	96
10) ethyl ether	6.446	59	9918	4.02	ug/L	95
11) acetonitrile	6.435	41	1587	4.60	ug/L	# 56
12) trichlorofluoromethane	6.195	101	16469	6.24	ug/L	98
13) freon-113	6.958	101	5406	3.21	ug/L	91
14) acrolein	6.205	56	3019	29.56	ug/L	100
15) 1,1-dichloroethene	6.771	96	9783	4.22	ug/L	86
16) acetone	6.340	58	1666	5.34	ug/L	95
17) Methyl Acetate	6.973	43	8701	4.54	ug/L	# 91
18) methylene chloride	6.937	84	10912	4.54	ug/L	97
19) methyl tert butyl ether	7.715	73	20320	3.85	ug/L	99
20) acrylonitrile	6.859	53	3636	4.00	ug/L	78
21) allyl chloride	7.036	41	9446	2.29	ug/L	94
22) trans-1,2-dichloroethene	7.623	96	8962	4.42	ug/L	# 79
23) iodomethane	6.859	142	5737	4.32	ug/L	98
24) carbon disulfide	7.216	76	19102	3.49	ug/L	95
25) propionitrile	6.789	54	32m	1.13	ug/L	
26) vinyl acetate	7.991	43	4155	2.06	ug/L	80
27) chloroprene	8.235	53	17244	3.46	ug/L	95
28) di-isopropyl ether	8.274	45	46163	4.46	ug/L	95
29) methacrylonitrile	8.408	41	6687	4.70	ug/L	93
30) 2-butanone	8.309	72	665m	3.18	ug/L	
31) Hexane	8.270	41	13090	3.90	ug/L	# 21
32) 1,1-dichloroethane	7.874	63	20908	4.95	ug/L	98
33) tert-butyl ethyl ether	8.669	59	17464	2.97	ug/L	97
34) isobutyl alcohol	8.274	43	30965	21.18	ug/L	87
36) cis-1,2-dichloroethene	8.443	96	10395	4.22	ug/L	94
37) ethyl acetate	8.274	43	30965	4.24	ug/L	89

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140729\
 Data File : N89153.D
 Acq On : 29 Jul 2014 9:20 pm
 Operator : krystend
 Sample : IC3306-5
 Misc : ms32328,MSN3306,,,,5,1
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 30 09:36:25 2014
 Quant Method : C:\msdchem\1\methods\n140729w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Wed Jul 30 09:14:42 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
38) bromochloromethane	8.616	128	4477	3.94	ug/L	93
39) chloroform	8.645	83	18629	4.46	ug/L	85
41) Tetrahydrofuran	8.991	42	3125	5.21	ug/L	97
42) 1,1,1-trichloroethane	9.391	97	5107	3.34	ug/L	94
44) Cyclohexane	9.663	56	15451	3.15	ug/L	96
45) carbon tetrachloride	9.758	117	7281	3.81	ug/L	89
46) 1,1-dichloropropene	9.571	75	10713	3.38	ug/L	96
47) benzene	9.801	78	39223	4.18	ug/L	93
48) 1,2-dichloroethane	9.302	62	16690	4.74	ug/L	97
49) tert-amyl methyl ether	9.914	73	19883	4.63	ug/L	91
50) heptane	10.264	43	7828	3.27	ug/L	92
51) trichloroethene	10.412	95	12291	4.09	ug/L	91
52) 1,2-dichloropropane	10.381	63	12174	4.27	ug/L	93
53) dibromomethane	10.359	93	5583	4.35	ug/L	96
54) bromodichloromethane	10.469	83	13041	4.35	ug/L	94
55) Methylcyclohexane	10.921	83	10840	3.05	ug/L	99
56) 2-chloroethyl vinyl ether	10.381	63	12174	3.52	ug/L #	98
57) methyl methacrylate	10.564	69	4731	3.72	ug/L	92
58) 1,4-dioxane	10.572	88	231m	11.96	ug/L	
59) cis-1,3-dichloropropene	11.091	75	10044	4.14	ug/L	99
61) 4-methyl-2-pentanone	11.190	43	11421	4.47	ug/L #	92
62) toluene	11.858	92	24309	4.17	ug/L	100
63) trans-1,3-dichloropropene	11.505	75	8676	4.38	ug/L	95
64) 1,1,2-trichloroethane	11.678	83	8056	4.89	ug/L	92
65) ethyl methacrylate	11.880	69	8024	3.43	ug/L	87
67) tetrachloroethene	12.597	166	8530	4.25	ug/L	92
68) 1,3-dichloropropane	11.911	76	14381	4.08	ug/L	97
69) dibromochloromethane	12.205	129	8272	4.68	ug/L	94
70) 1,2-dibromoethane	12.456	107	7798	4.43	ug/L	97
71) 2-hexanone	12.060	43	5923	3.63	ug/L	96
72) chlorobenzene	13.280	112	25795	4.25	ug/L	96
73) 1,1,1,2-tetrachloroethane	13.191	131	8928	4.42	ug/L	96
74) ethylbenzene	13.449	91	47910	4.15	ug/L	99
75) m,p-xylene	13.637	106	35066	8.39	ug/L	99
76) o-xylene	14.050	106	17906	4.17	ug/L	93
77) styrene	13.980	104	26441	3.85	ug/L	99
78) bromoform	13.803	173	4549	4.64	ug/L	97
79) trans-1,4-dichloro-2-b...	14.202	53	71m	0.24	ug/L	
81) isopropylbenzene	14.407	105	43844	4.48	ug/L	98
83) bromobenzene	14.704	156	10427	4.56	ug/L	91
84) 1,1,2,2-tetrachloroethane	14.050	83	11067	4.38	ug/L	99
85) 1,2,3-trichloropropane	14.195	75	8604	4.27	ug/L	95
86) n-propylbenzene	14.849	91	51922	4.37	ug/L	96
87) 2-chlorotoluene	14.973	91	36235	4.62	ug/L	96
88) 4-chlorotoluene	15.051	91	34890	4.34	ug/L	93
89) 1,3,5-trimethylbenzene	15.129	105	39605	4.30	ug/L	96
90) tert-butylbenzene	15.433	91	24358	4.50	ug/L	90
91) 1,2,4-trimethylbenzene	15.539	105	36256	4.26	ug/L	99
92) sec-butylbenzene	15.652	105	44465	4.18	ug/L	99
93) 1,3-dichlorobenzene	15.761	146	18802	4.29	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89153.D
Acq On : 29 Jul 2014 9:20 pm
Operator : krystend
Sample : IC3306-5
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 30 09:36:25 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:14:42 2014
Response via : Initial Calibration

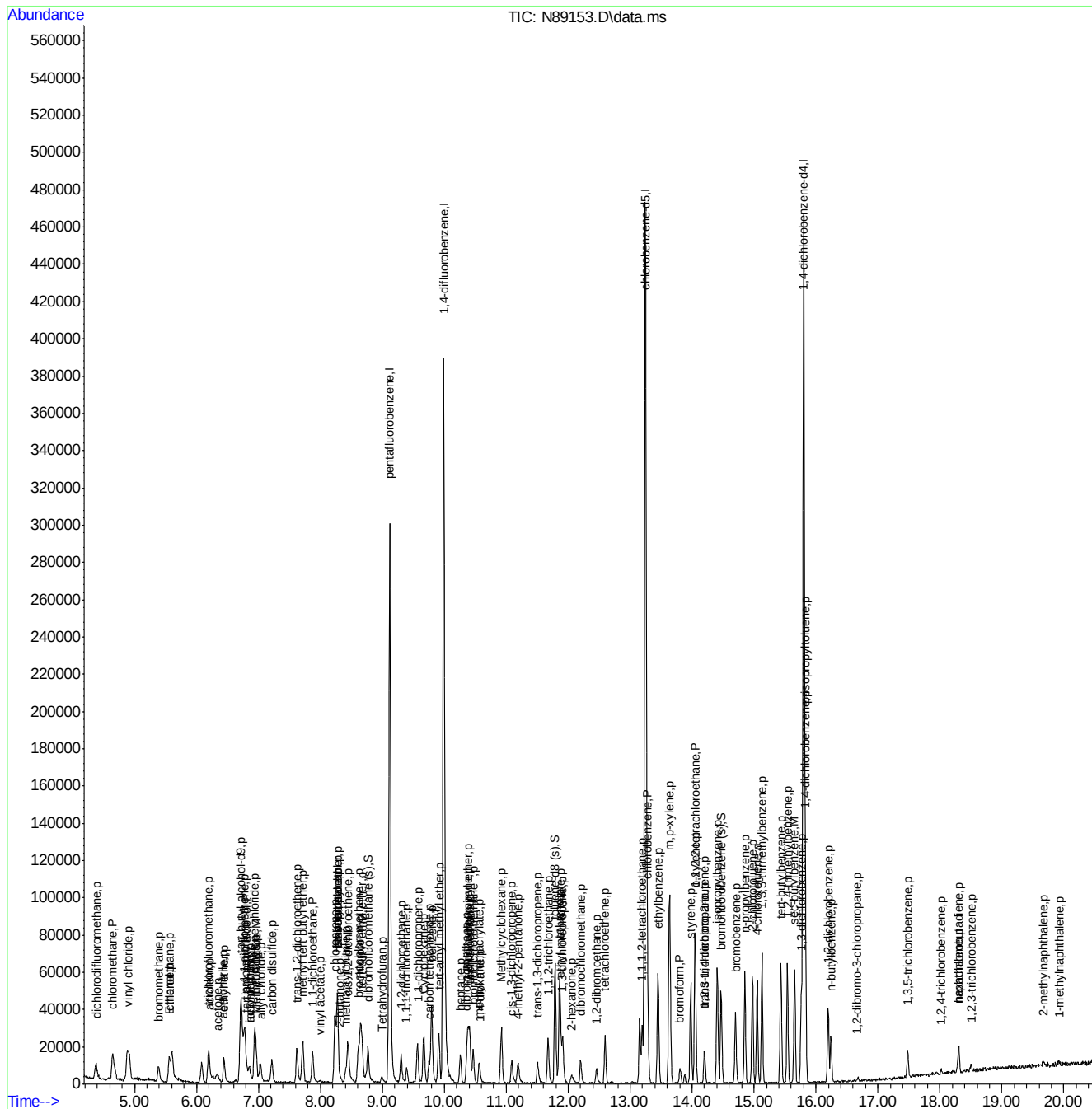
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) p-isopropyltoluene	15.821	119	33628	3.99	ug/L	97
95) 1,4-dichlorobenzene	15.829	146	18057	4.26	ug/L	95
96) 1,2-dichlorobenzene	16.196	146	16639	4.35	ug/L	99
97) n-butylbenzene	16.242	91	15959	1.89	ug/L	98
98) 1,2-dibromo-3-chloropr...	16.663	75	540m	1.61	ug/L	
99) 1,2,4-trichlorobenzene	18.017	180	986m	0.70	ug/L	
100) 1,3,5-trichlorobenzene	17.479	180	4928	1.83	ug/L	96
101) hexachlorobutadiene	18.307	225	2338	1.75	ug/L	96
102) naphthalene	18.296	128	5655	4.31	ug/L	100
103) 1,2,3-trichlorobenzene	18.508	180	1263	1.66	ug/L	78
104) 2-methylnaphthalene	19.668	142	1596	1.47	ug/L #	100
105) 1-methylnaphthalene	19.926	142	1439	1.57	ug/L #	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89153.D
Acq On : 29 Jul 2014 9:20 pm
Operator : krystend
Sample : IC3306-5
Misc : ms32328,MSN3306,,,5,1
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 30 09:36:25 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:14:42 2014
Response via : Initial Calibration



n140729w.m Wed Jul 30 12:18:50 2014

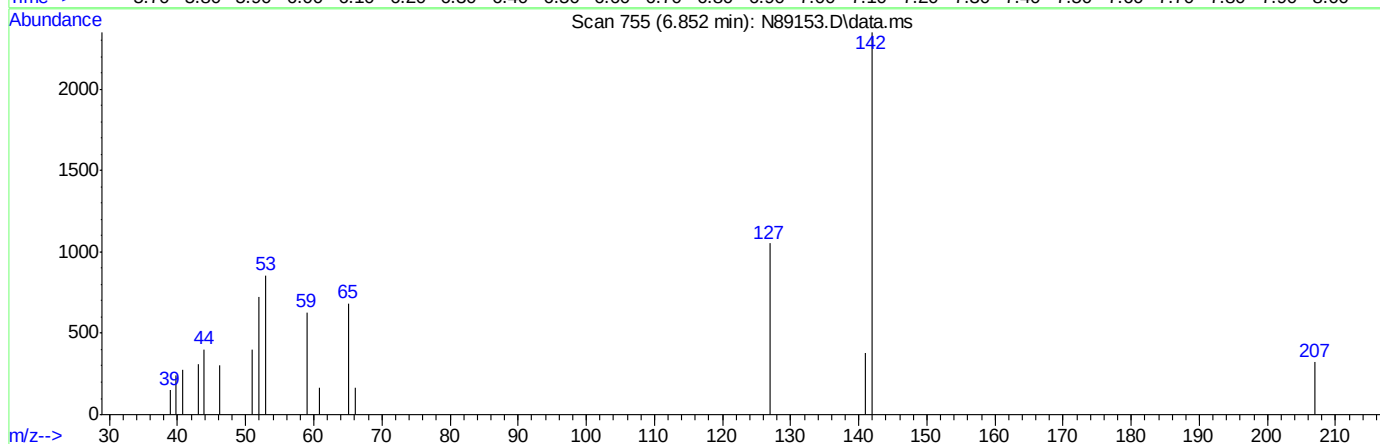
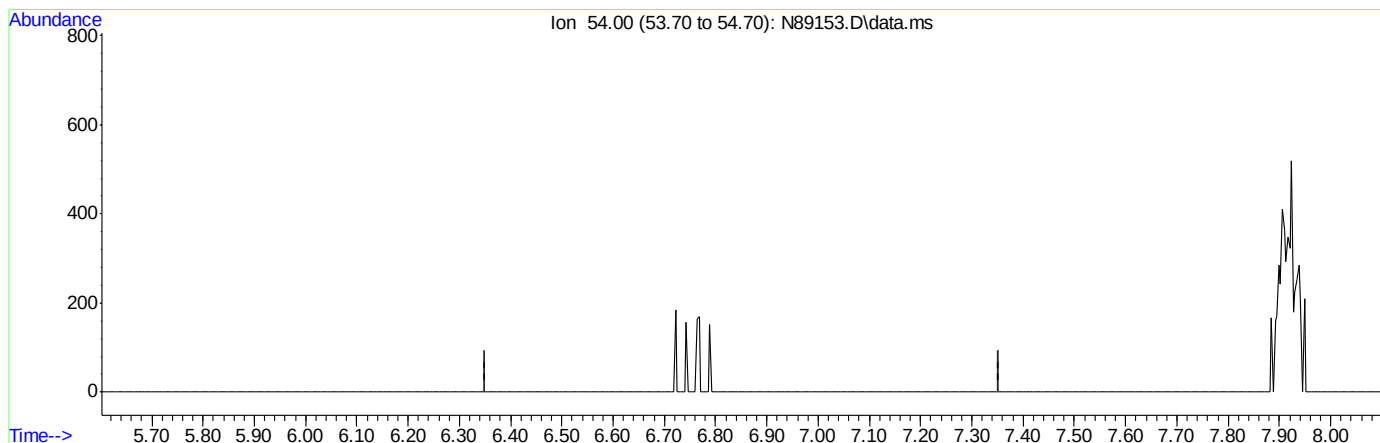
Page: 4

7.6.4

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89153.D
Acq On : 29 Jul 2014 9:20 pm
Operator : krystend
Sample : IC3306-5
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 30 09:15:05 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:14:42 2014
Response via : Initial Calibration



TIC: N89153.D\data.ms

(25) propionitrile (p)

6.853min (-6.853) 0.00ug/L

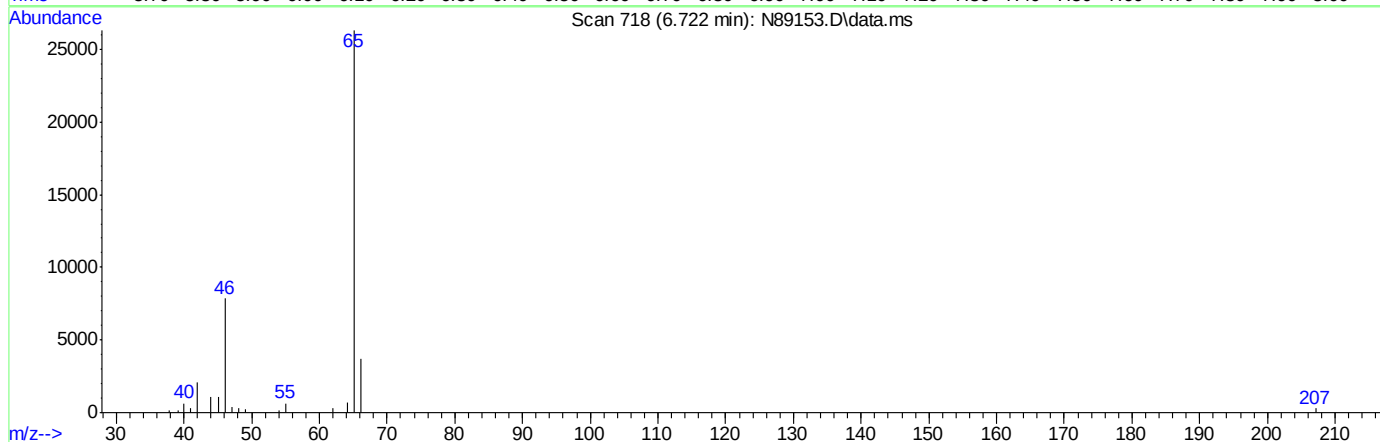
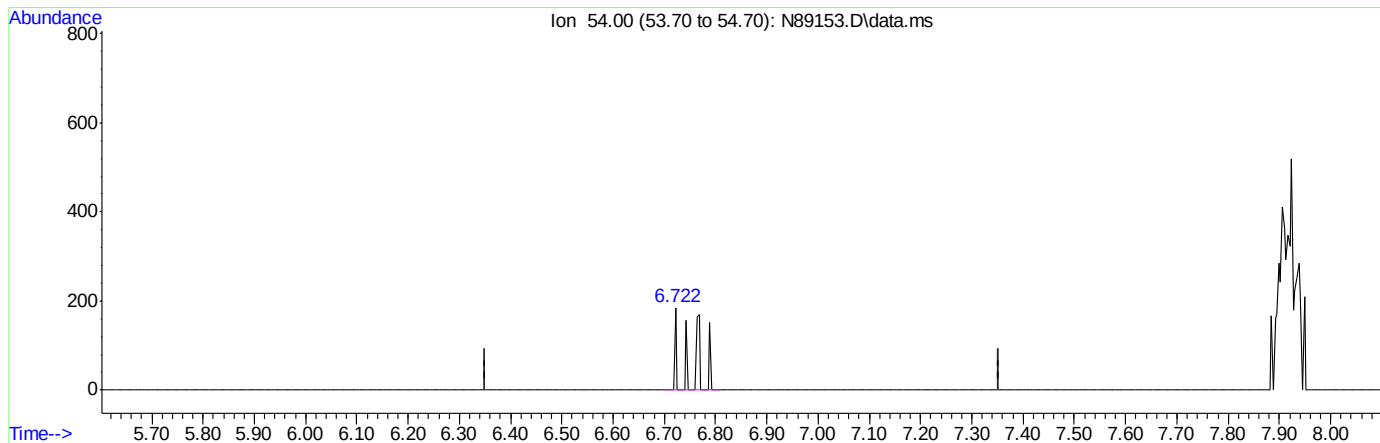
response 0

Ion	Exp%	Act%
54.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89153.D
Acq On : 29 Jul 2014 9:20 pm
Operator : krystend
Sample : IC3306-5
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 30 09:15:05 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:14:42 2014
Response via : Initial Calibration



TIC: N89153.D\data.ms

(25) propionitrile (p)

6.722min (-0.131) 6.19ug/L m

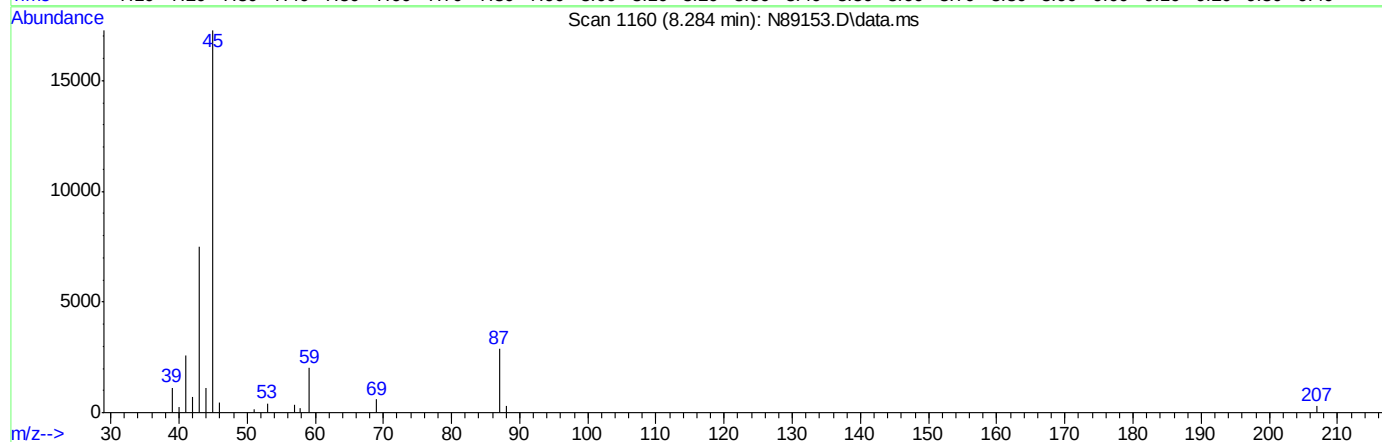
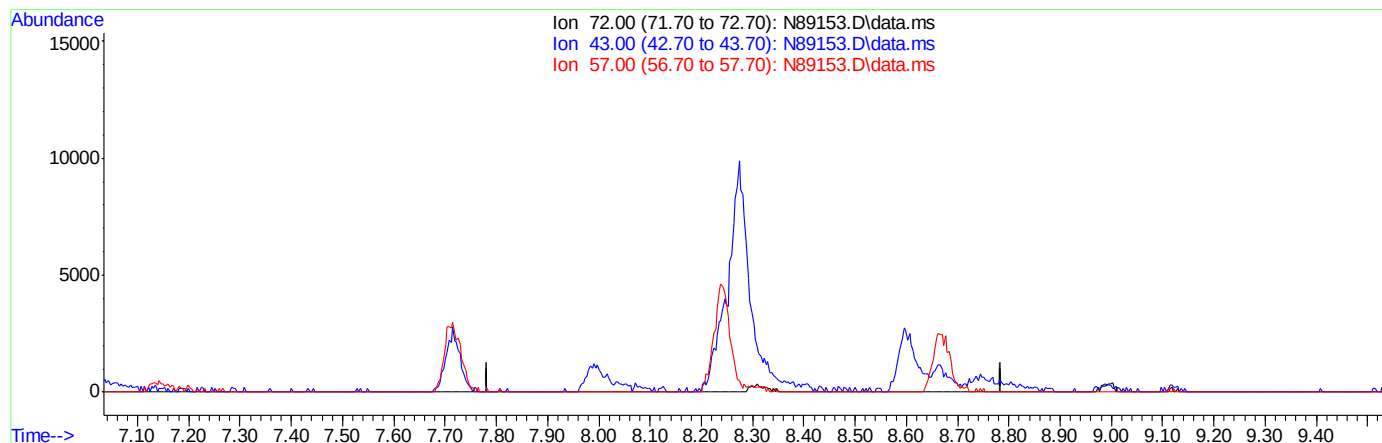
response 175

Ion	Exp%	Act%
54.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89153.D
Acq On : 29 Jul 2014 9:20 pm
Operator : krystend
Sample : IC3306-5
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 30 09:15:05 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:14:42 2014
Response via : Initial Calibration



TIC: N89153.D\data.ms

(30) 2-butanone (p)

8.284min (-8.284) 0.00ug/L

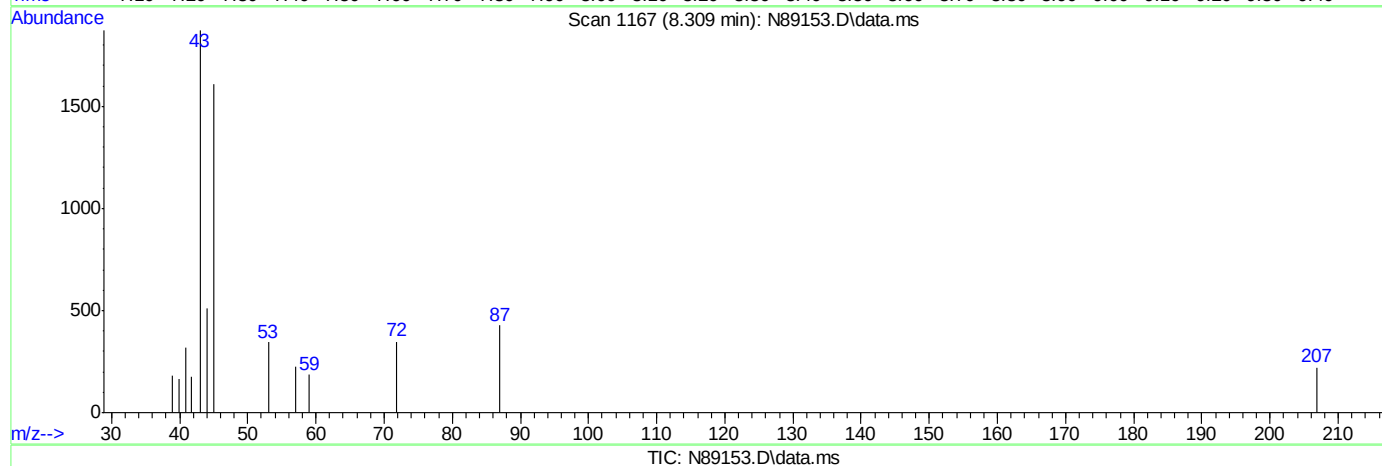
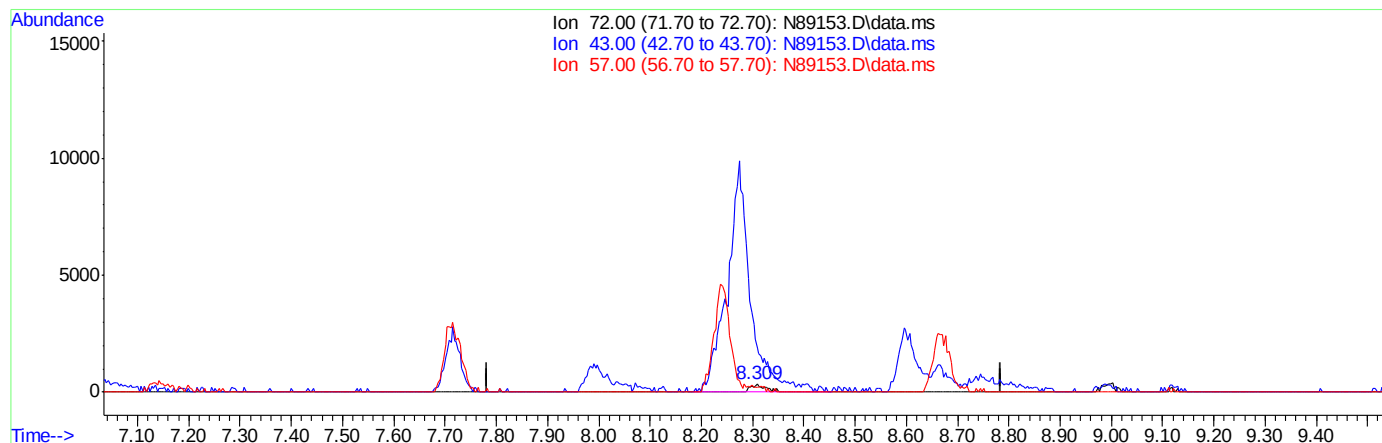
response 0

Ion	Exp%	Act%
72.00	100	0.00
43.00	1395.50	0.00#
57.00	92.90	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89153.D
Acq On : 29 Jul 2014 9:20 pm
Operator : krystend
Sample : IC3306-5
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 30 09:15:05 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:14:42 2014
Response via : Initial Calibration



(30) 2-butanone (p)

8.309min (+0.025) 3.18ug/L m

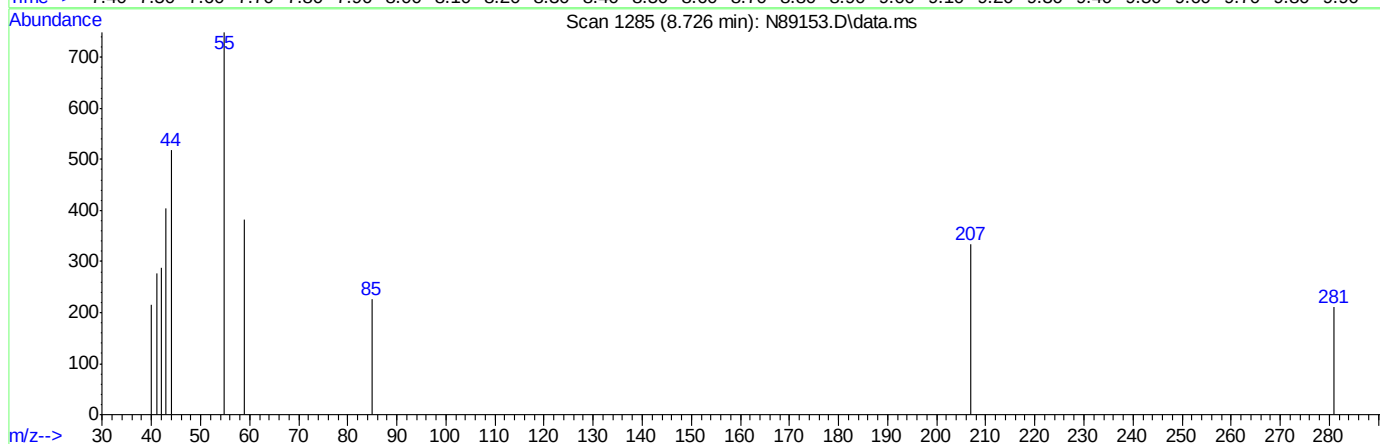
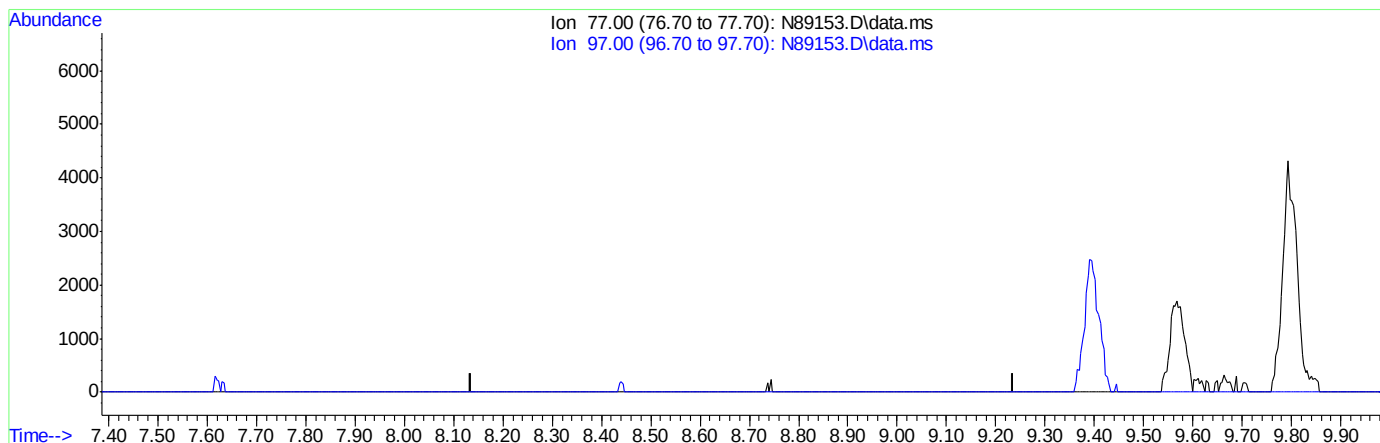
response 665

Ion	Exp%	Act%
72.00	100	100
43.00	1395.50	537.93#
57.00	92.90	64.08
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89153.D
Acq On : 29 Jul 2014 9:20 pm
Operator : krystend
Sample : IC3306-5
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 30 09:15:05 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:14:42 2014
Response via : Initial Calibration



TIC: N89153.D\data.ms

(35) 2,2-dichloropropane (p)

8.726min (-8.726) 0.00ug/L

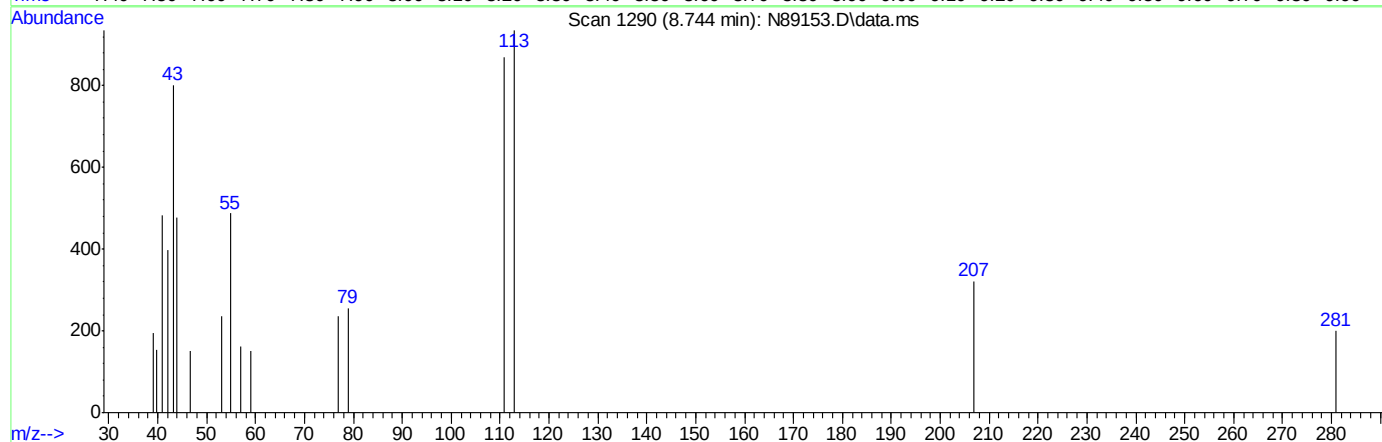
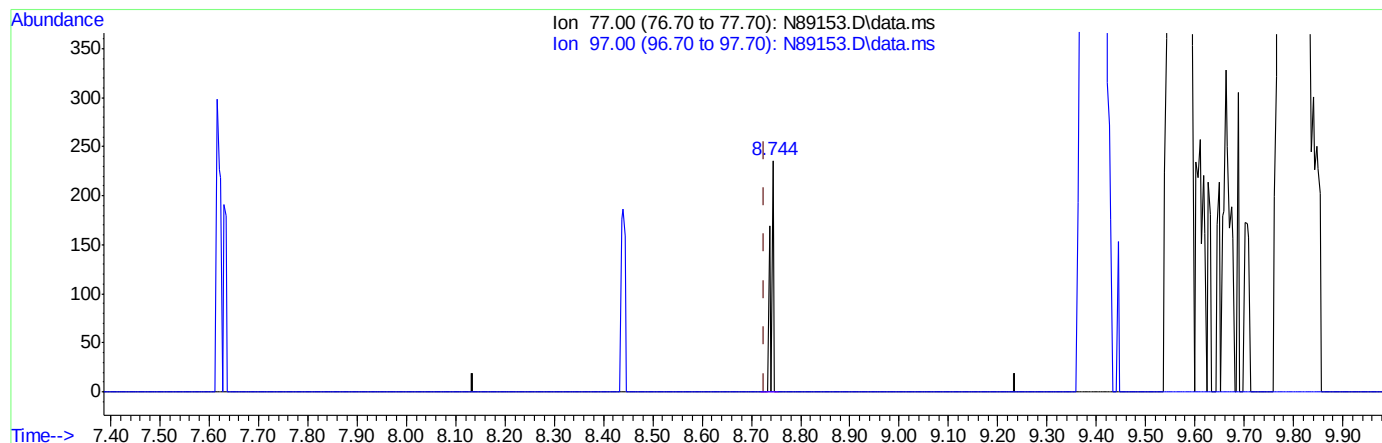
response 0

Ion	Exp%	Act%
77.00	100	0.00
97.00	19.20	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89153.D
Acq On : 29 Jul 2014 9:20 pm
Operator : krystend
Sample : IC3306-5
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 30 09:15:05 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:14:42 2014
Response via : Initial Calibration



TIC: N89153.D\data.ms

(35) 2,2-dichloropropane (p)

8.744min (+0.018) 0.03ug/L m

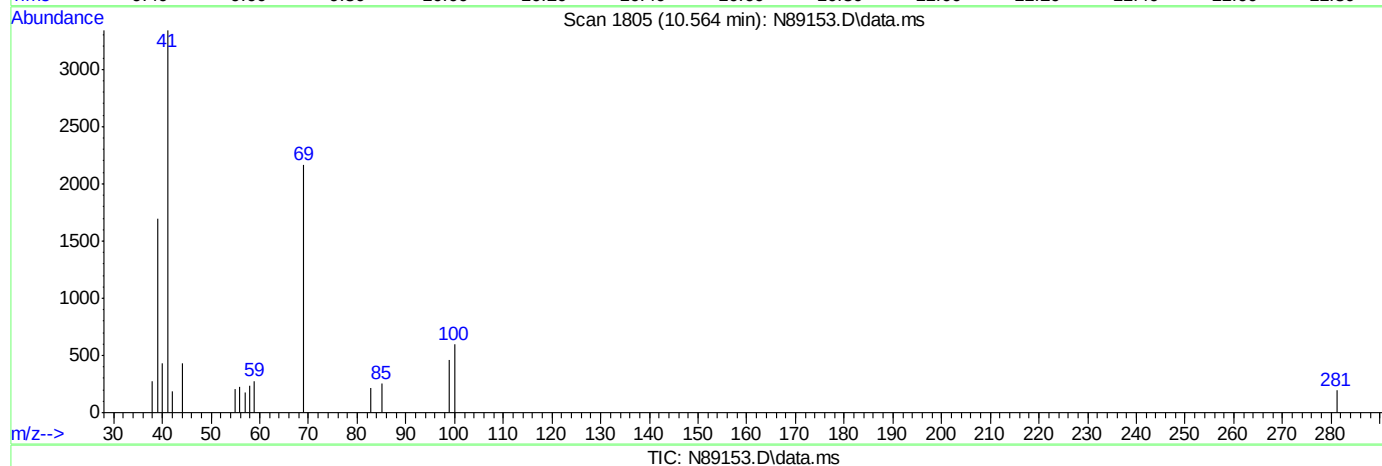
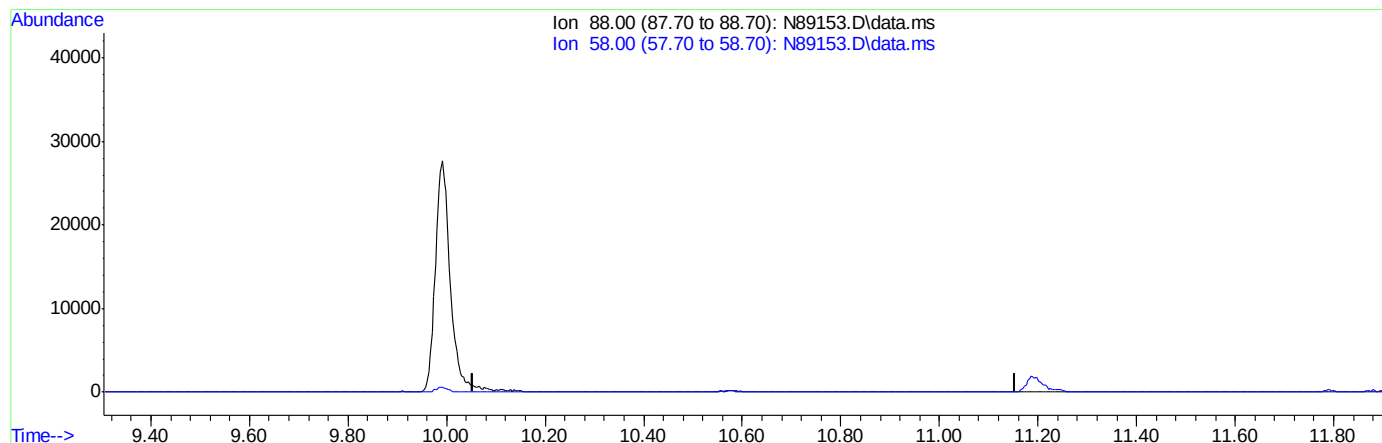
response 86

Ion	Exp%	Act%
77.00	100	100
97.00	19.20	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89153.D
Acq On : 29 Jul 2014 9:20 pm
Operator : krystend
Sample : IC3306-5
Misc : ms32328,MSN3306,,,,,5,1
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 30 09:15:05 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:14:42 2014
Response via : Initial Calibration



(58) 1,4-dioxane (p)

10.565min (-10.565) 0.00ug/L

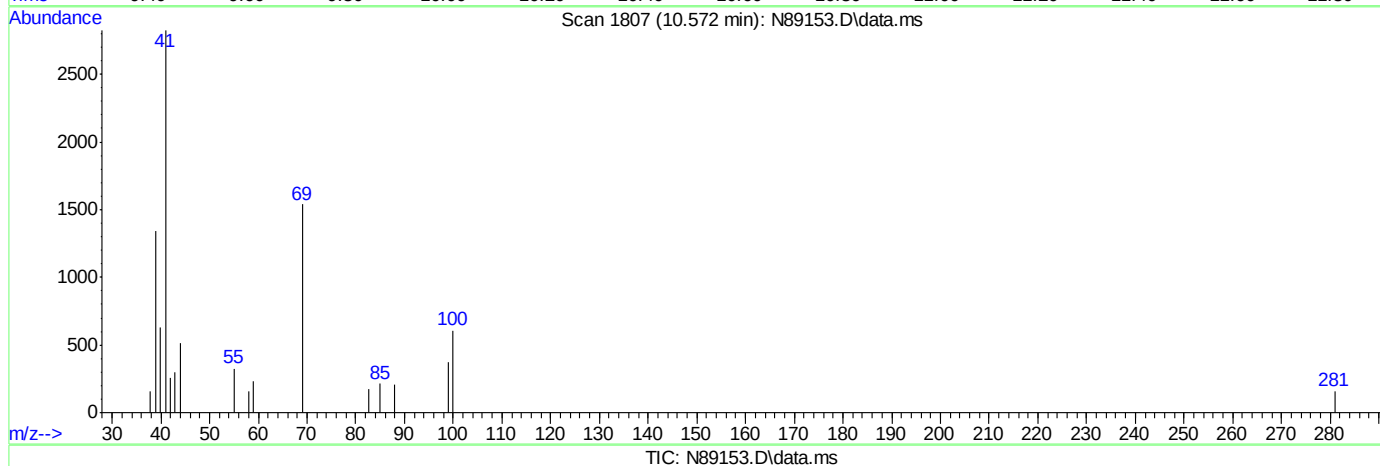
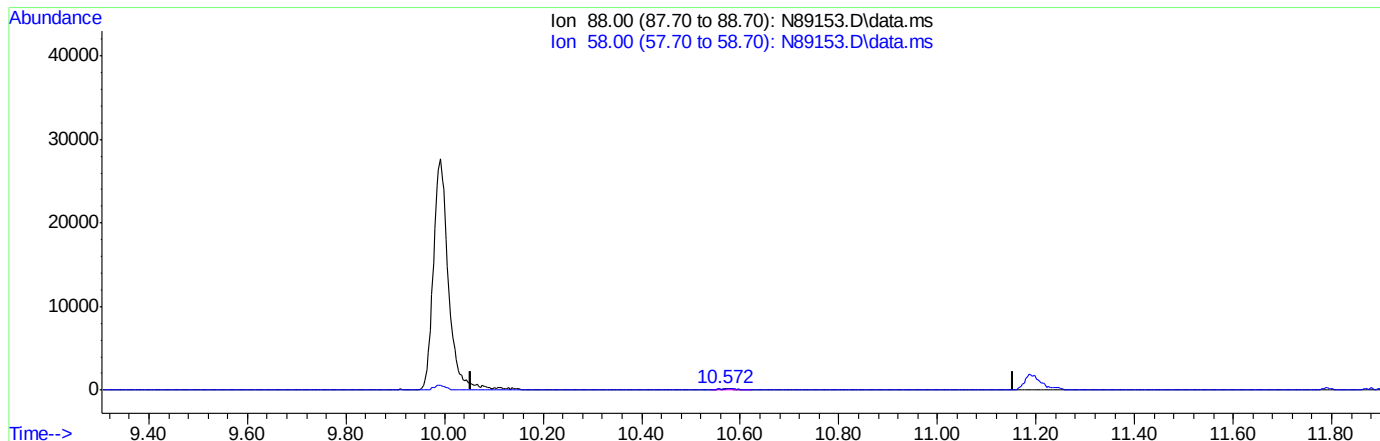
response 0

Ion	Exp%	Act%
88.00	100	0.00
58.00	99.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89153.D
Acq On : 29 Jul 2014 9:20 pm
Operator : krystend
Sample : IC3306-5
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 30 09:15:05 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:14:42 2014
Response via : Initial Calibration



(58) 1,4-dioxane (p)

10.572min (+0.007) 11.96ug/L m

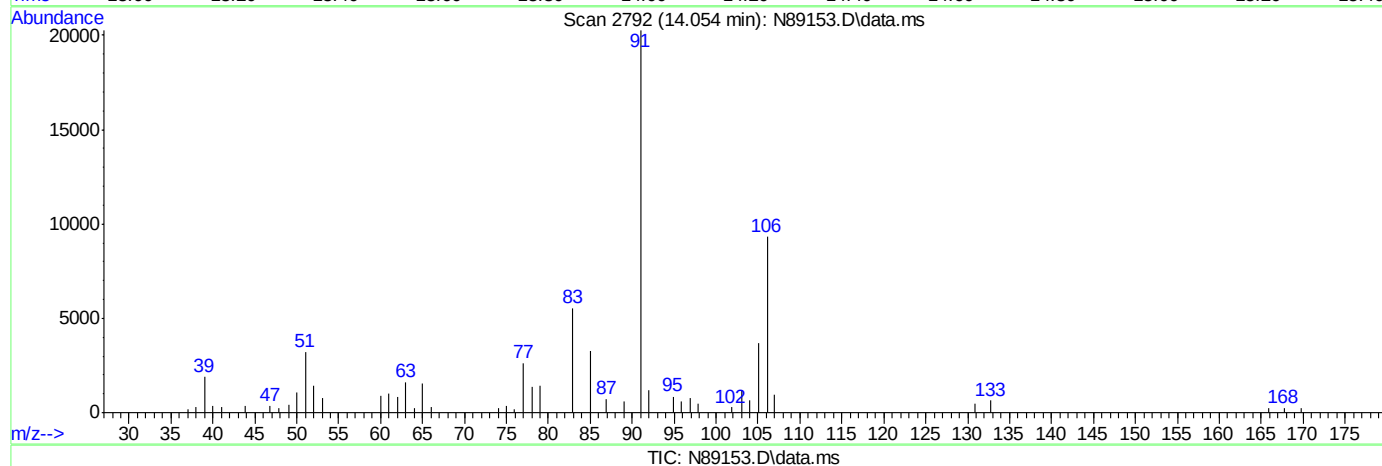
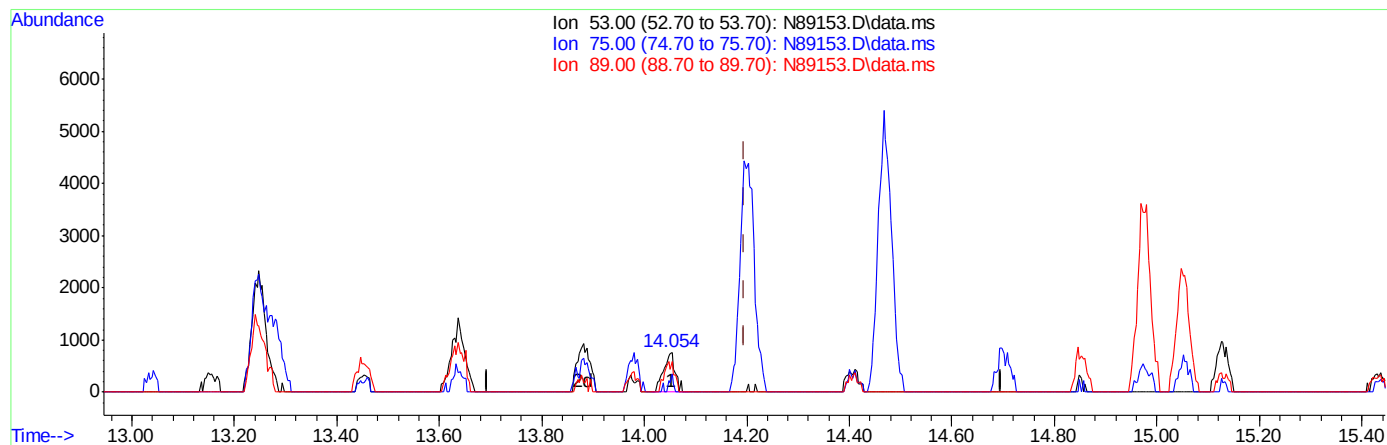
response 231

Ion	Exp%	Act%
88.00	100	100
58.00	99.80	73.68
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89153.D
Acq On : 29 Jul 2014 9:20 pm
Operator : krystend
Sample : IC3306-5
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 30 09:15:05 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:14:42 2014
Response via : Initial Calibration



(79) trans-1,4-dichloro-2-butene (p)

14.054min (-0.142) 4.10ug/L

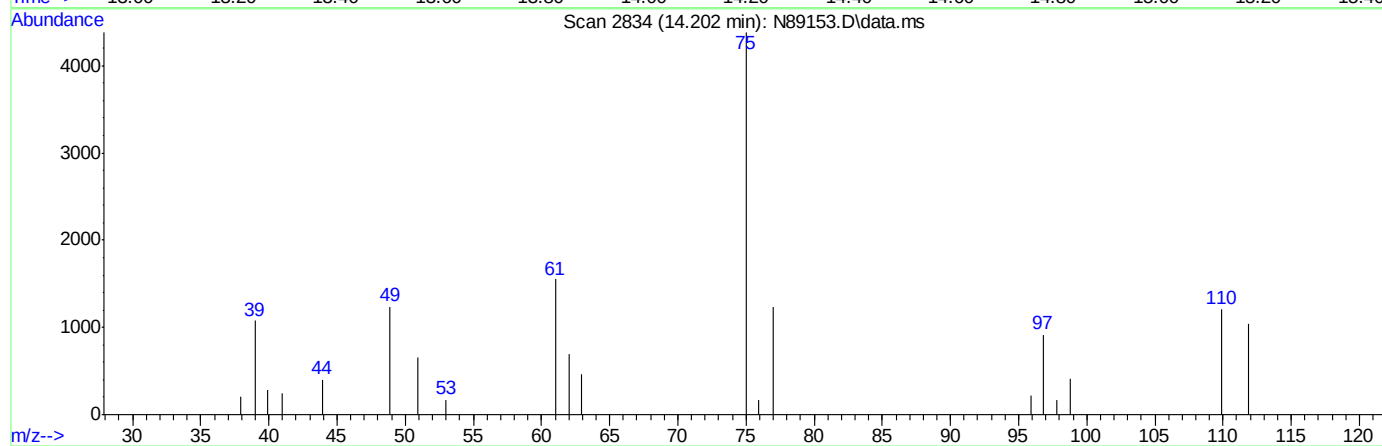
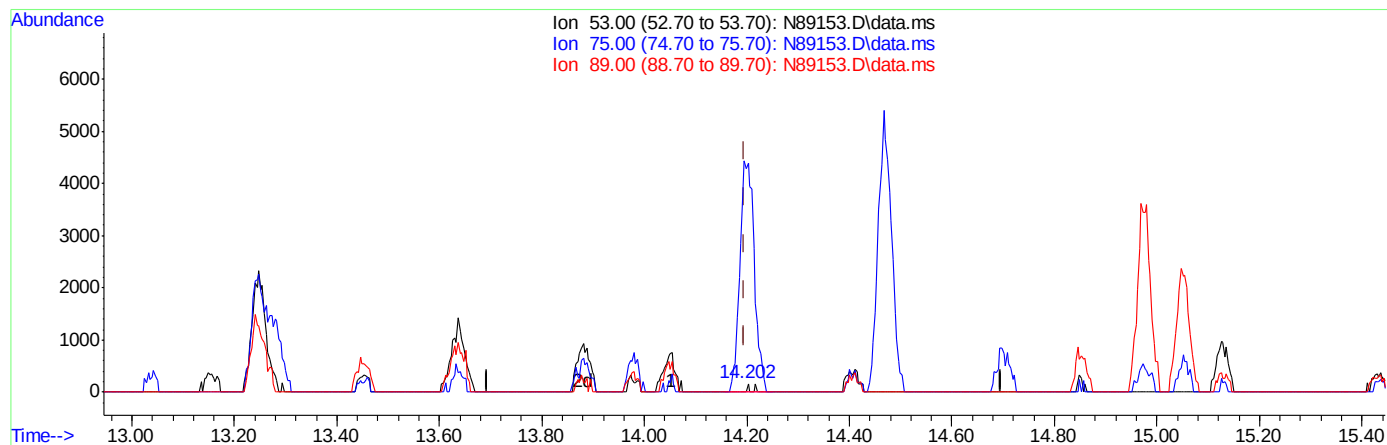
response 1191

Ion	Exp%	Act%
53.00	100	100
75.00	754.80	47.19#
89.00	54.70	76.21
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89153.D
Acq On : 29 Jul 2014 9:20 pm
Operator : krystend
Sample : IC3306-5
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 30 09:15:05 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:14:42 2014
Response via : Initial Calibration



TIC: N89153.D\data.ms

(79) trans-1,4-dichloro-2-butene (p)

14.202min (+0.007) 0.24ug/L m

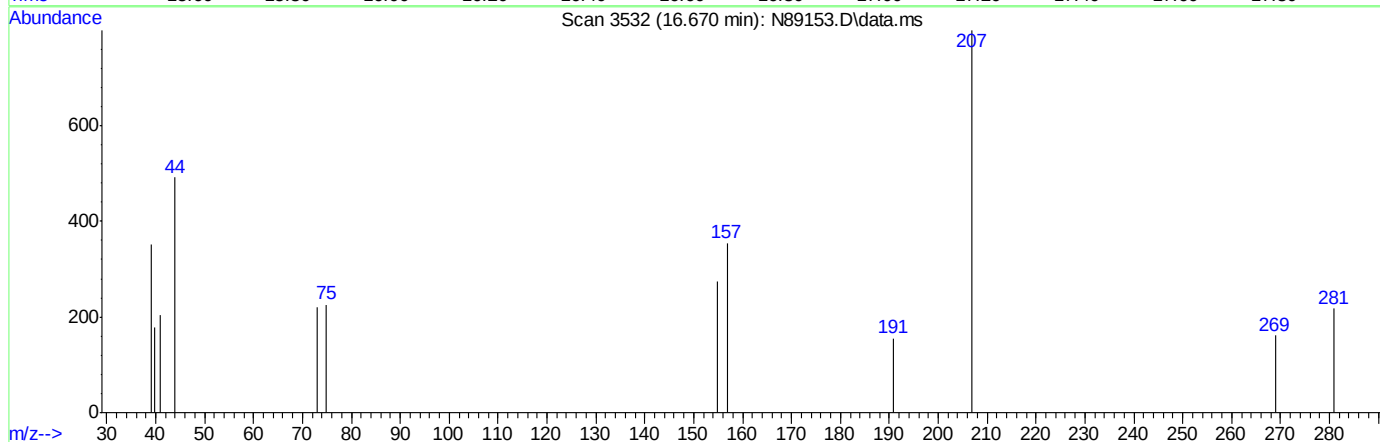
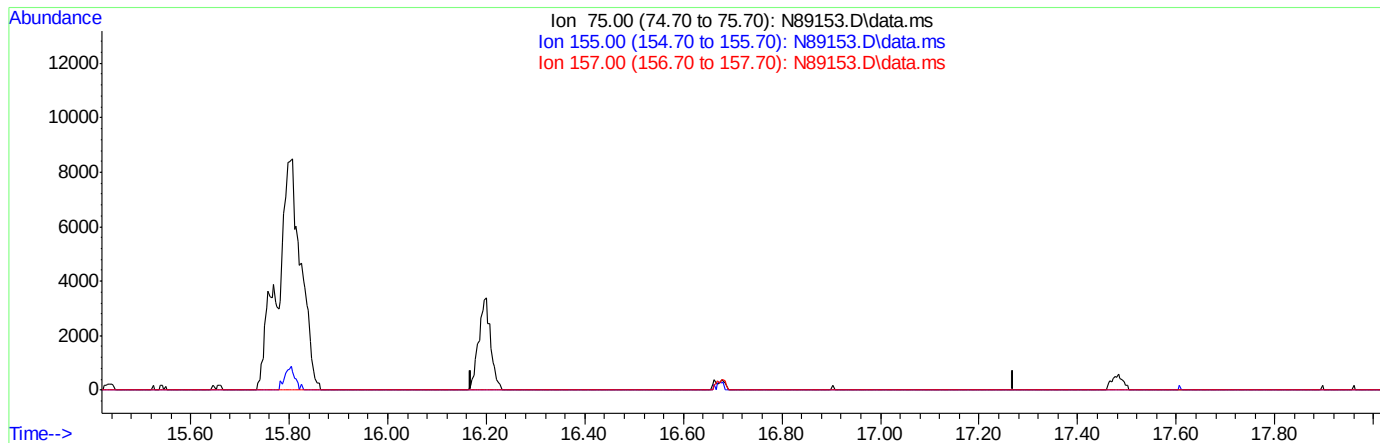
response 71

Ion	Exp%	Act%
53.00	100	100
75.00	754.80	2608.33#
89.00	54.70	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89153.D
Acq On : 29 Jul 2014 9:20 pm
Operator : krystend
Sample : IC3306-5
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 30 09:15:05 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:14:42 2014
Response via : Initial Calibration



(98) 1,2-dibromo-3-chloropropane (p)

16.670min (-16.670) 0.00ug/L

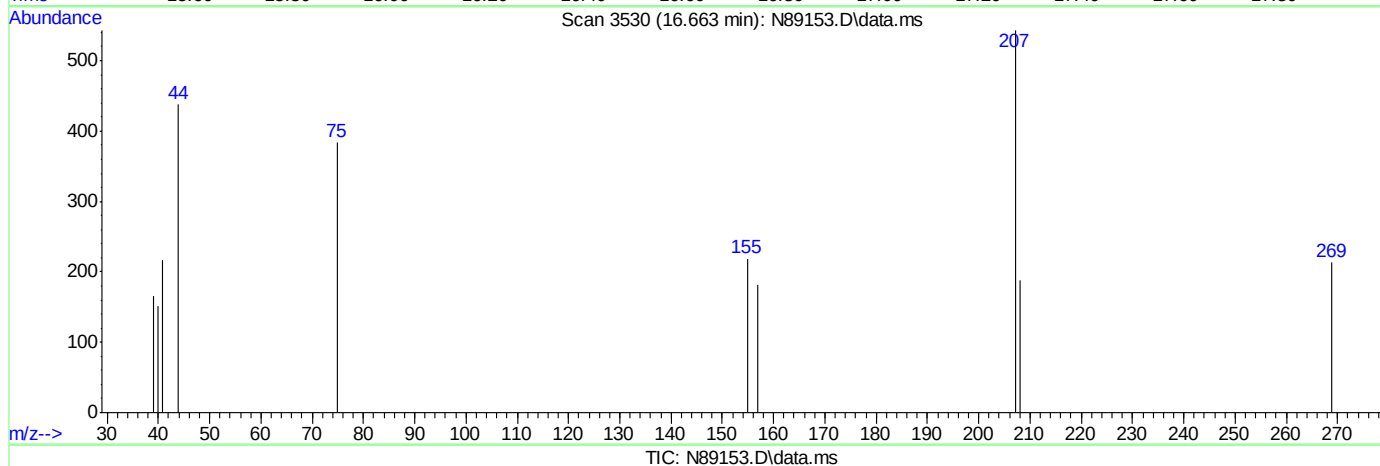
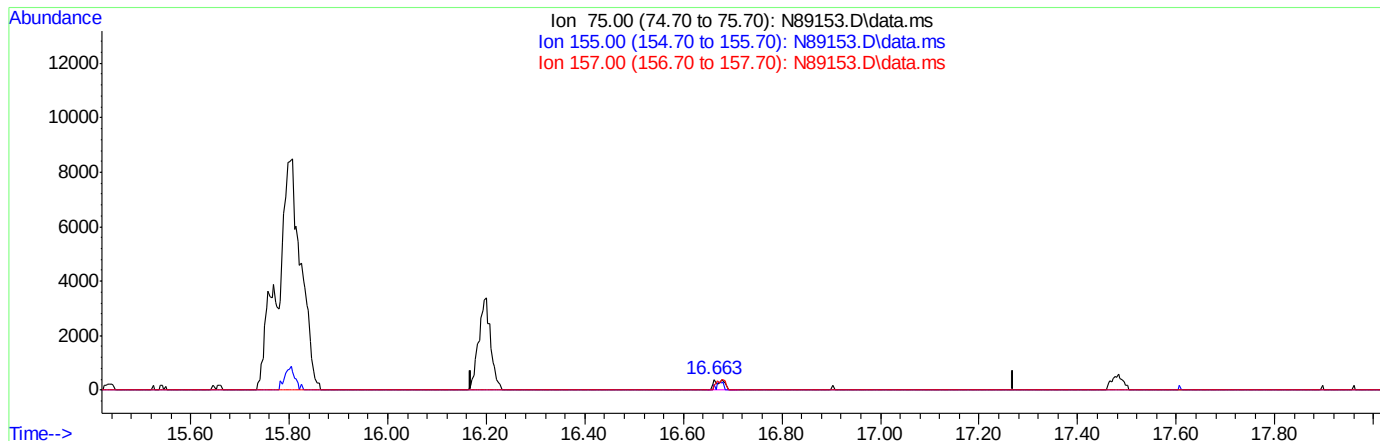
response 0

Ion	Exp%	Act%
75.00	100	0.00
155.00	75.80	0.00#
157.00	96.80	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89153.D
Acq On : 29 Jul 2014 9:20 pm
Operator : krystend
Sample : IC3306-5
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 30 09:15:05 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:14:42 2014
Response via : Initial Calibration



(98) 1,2-dibromo-3-chloropropane (p)

16.663min (-0.007) 1.61ug/L m

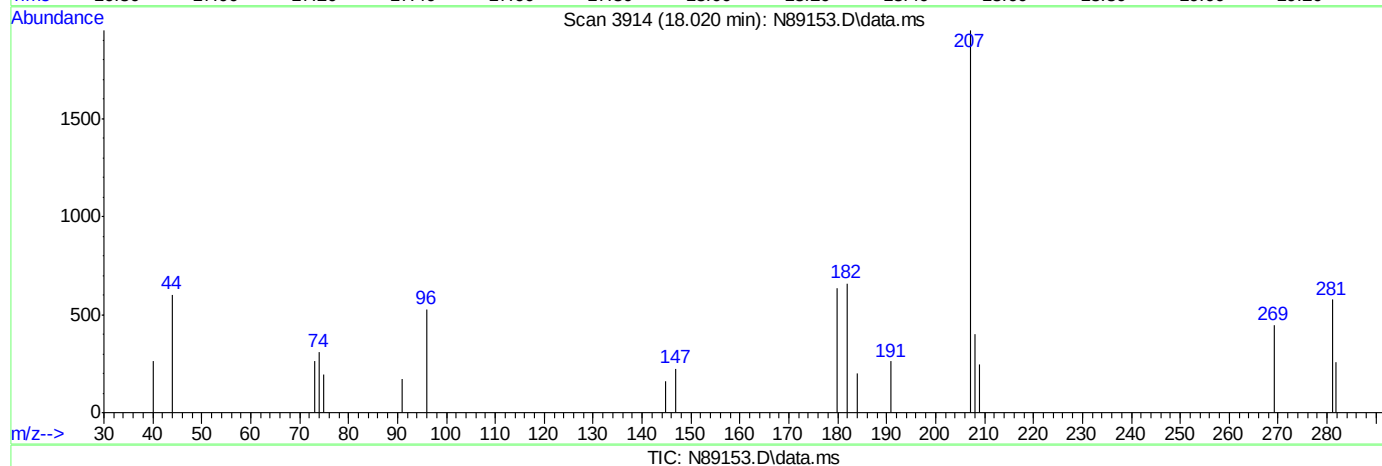
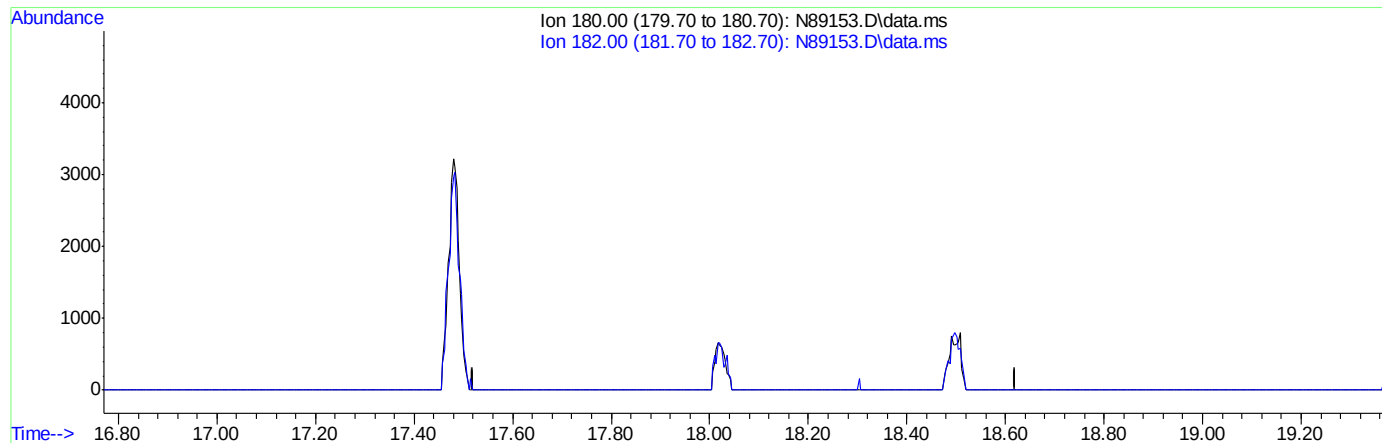
response 540

Ion	Exp%	Act%
75.00	100	100
155.00	75.80	57.03
157.00	96.80	47.40#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89153.D
Acq On : 29 Jul 2014 9:20 pm
Operator : krystend
Sample : IC3306-5
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 30 09:15:05 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:14:42 2014
Response via : Initial Calibration



(99) 1,2,4-trichlorobenzene (p)

18.021min (-18.021) 0.00ug/L

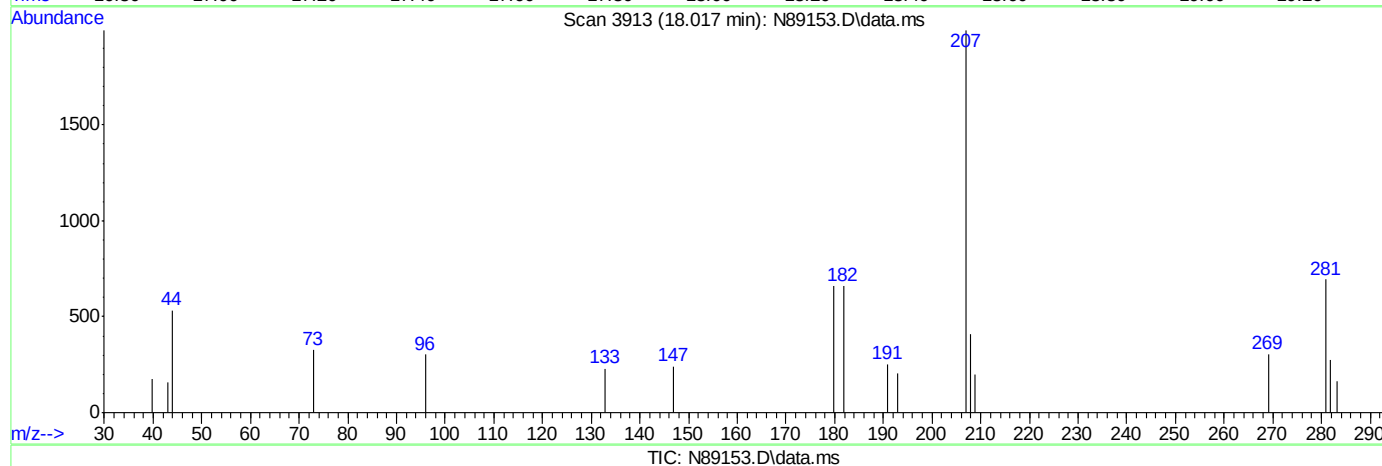
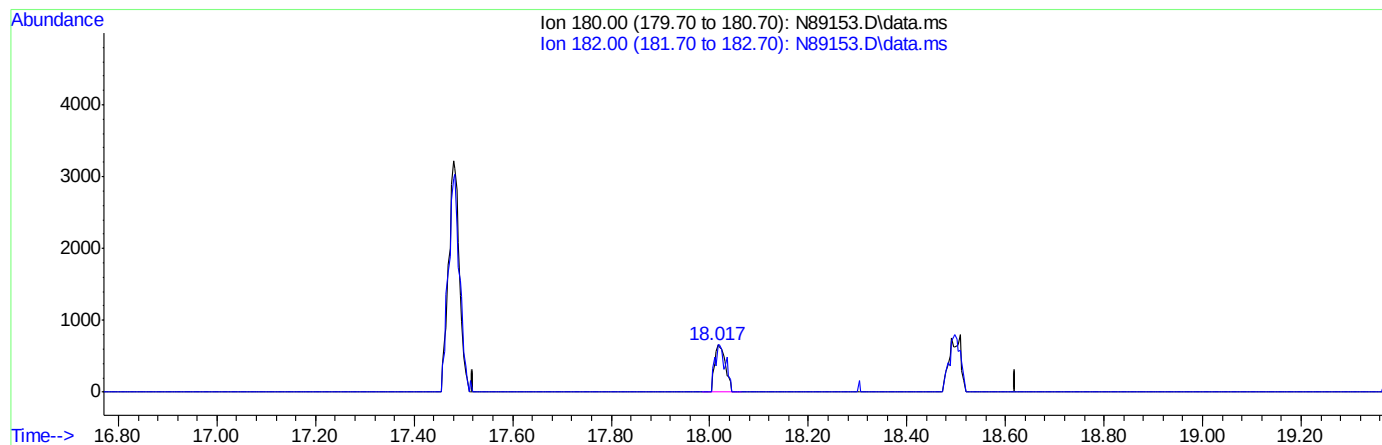
response 0

Ion	Exp%	Act%
180.00	100	0.00
182.00	95.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89153.D
Acq On : 29 Jul 2014 9:20 pm
Operator : krystend
Sample : IC3306-5
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 30 09:15:05 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:14:42 2014
Response via : Initial Calibration



(99) 1,2,4-trichlorobenzene (p)

18.017min (-0.004) 0.70ug/L m

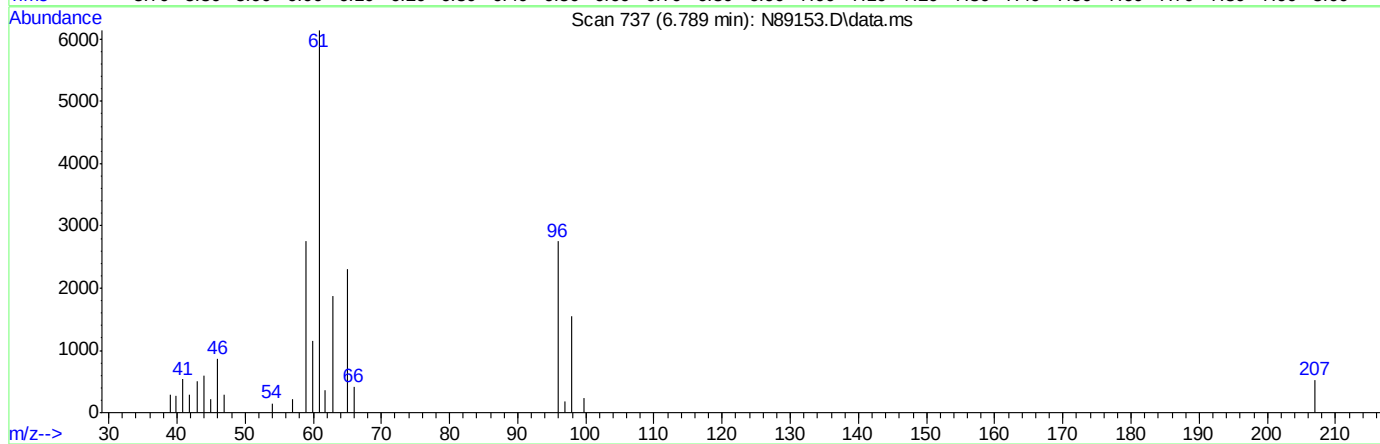
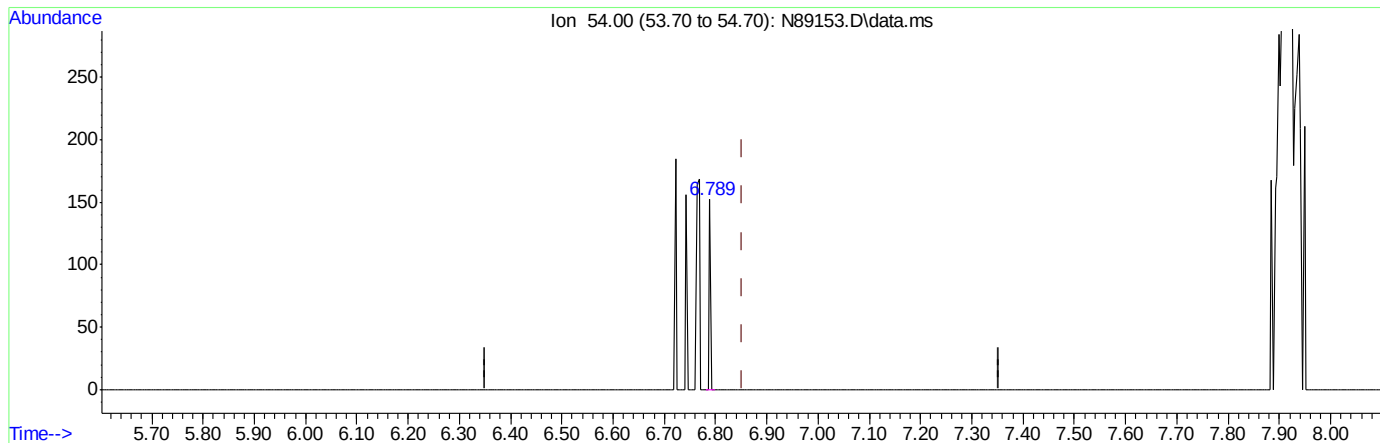
response 986

Ion	Exp%	Act%
180.00	100	100
182.00	95.00	100.15
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89153.D
Acq On : 29 Jul 2014 9:20 pm
Operator : krystend
Sample : IC3306-5
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jul 30 09:17:28 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:14:42 2014
Response via : Initial Calibration



(25) propionitrile (p)

6.789min (-0.064) 1.13ug/L m

response 32

Ion	Exp%	Act%
54.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140729\
 Data File : N89154.D
 Acq On : 29 Jul 2014 9:48 pm
 Operator : krystend
 Sample : IC3306-10
 Misc : ms32328,MSN3306,,,,5,1
 ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jul 30 11:46:20 2014
 Quant Method : C:\msdchem\1\methods\n140729w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Wed Jul 30 09:17:40 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.711	65	83128	500.00	ug/L	0.02
4) pentafluorobenzene	9.118	168	221036	50.00	ug/L	0.00
43) 1,4-difluorobenzene	9.992	114	340397	50.00	ug/L	0.00
66) chlorobenzene-d5	13.244	82	175282	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.800	152	132518	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.768	113	21164	7.72	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	15.44%#		
60) toluene-d8 (s)	11.788	98	82394	7.73	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	15.46%#		
82) bromofluorobenzene (s)	14.467	95	34623	7.83	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	15.66%#		
Target Compounds						
					Qvalue	
2) tertiary butyl alcohol	6.789	59	36213	135.64	ug/L	# 100
3) Ethanol	5.569	45	53800	1424.15	ug/L	97
5) dichlorodifluoromethane	4.378	85	28780	12.70	ug/L	99
6) chloromethane	4.643	50	39265	10.96	ug/L	93
7) vinyl chloride	4.887	62	30219	11.64	ug/L	99
8) bromomethane	5.392	96	16934	11.62	ug/L	98
9) chloroethane	5.562	64	22297	11.52	ug/L	95
10) ethyl ether	6.432	59	32239	14.39	ug/L	90
11) acetonitrile	6.435	41	4781	14.34	ug/L	88
12) trichlorofluoromethane	6.198	101	36493	12.94	ug/L	92
13) freon-113	6.958	101	15663	11.25	ug/L	95
14) acrolein	6.198	56	6752	60.22	ug/L	100
15) 1,1-dichloroethene	6.782	96	22751	10.14	ug/L	92
16) acetone	6.329	58	4919	15.16	ug/L	99
17) Methyl Acetate	6.969	43	24010	13.06	ug/L	99
18) methylene chloride	6.941	84	32561	13.89	ug/L	95
19) methyl tert butyl ether	7.708	73	56752	11.34	ug/L	98
20) acrylonitrile	6.845	53	11613	14.11	ug/L	98
21) allyl chloride	7.026	41	47475m	15.69	ug/L	
22) trans-1,2-dichloroethene	7.620	96	28315	14.30	ug/L	99
23) iodomethane	6.852	142	15690	12.59	ug/L	98
24) carbon disulfide	7.216	76	61786	13.21	ug/L	99
25) propionitrile	6.852	54	98m	3.08	ug/L	
26) vinyl acetate	7.984	43	11691	8.17	ug/L	95
27) chloroprene	8.235	53	56795	13.39	ug/L	100
28) di-isopropyl ether	8.270	45	141704	14.11	ug/L	96
29) methacrylonitrile	8.404	41	18772	13.52	ug/L	93
30) 2-butanone	8.295	72	1982	11.53	ug/L	# 26
31) Hexane	8.266	41	39275	13.07	ug/L	# 30
32) 1,1-dichloroethane	7.874	63	73271	17.28	ug/L	98
33) tert-butyl ethyl ether	8.662	59	48869	9.55	ug/L	94
34) isobutyl alcohol	8.270	43	92785	68.30	ug/L	88
35) 2,2-dichloropropane	8.730	77	8512	6.06	ug/L	99
36) cis-1,2-dichloroethene	8.443	96	33480	14.05	ug/L	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140729\
 Data File : N89154.D
 Acq On : 29 Jul 2014 9:48 pm
 Operator : krystend
 Sample : IC3306-10
 Misc : ms32328,MSN3306,,,,5,1
 ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jul 30 11:46:20 2014
 Quant Method : C:\msdchem\1\methods\n140729w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Wed Jul 30 09:17:40 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) ethyl acetate	8.270	43	92785	13.66	ug/L	85
38) bromochloromethane	8.613	128	13951	13.64	ug/L	94
39) chloroform	8.645	83	58316	14.27	ug/L	96
41) Tetrahydrofuran	8.988	42	8322	13.51	ug/L	95
42) 1,1,1-trichloroethane	9.394	97	37011	26.23	ug/L	98
44) Cyclohexane	9.674	56	45656	11.13	ug/L	89
45) carbon tetrachloride	9.751	117	26371	14.33	ug/L	97
46) 1,1-dichloropropene	9.567	75	35095	12.88	ug/L	98
47) benzene	9.794	78	125550	13.48	ug/L	95
48) 1,2-dichloroethane	9.299	62	49301	13.84	ug/L	99
49) tert-amyl methyl ether	9.910	73	50803	11.83	ug/L	99
50) heptane	10.257	43	24382	12.01	ug/L	94
51) trichloroethene	10.412	95	36389	12.25	ug/L	94
52) 1,2-dichloropropane	10.381	63	42394	15.25	ug/L	99
53) dibromomethane	10.359	93	17949	14.25	ug/L	95
54) bromodichloromethane	10.469	83	43815	14.74	ug/L	97
55) Methylcyclohexane	10.921	83	34813	11.87	ug/L	94
56) 2-chloroethyl vinyl ether	10.381	63	42394	14.02	ug/L	# 98
57) methyl methacrylate	10.561	69	14315	12.60	ug/L	92
58) 1,4-dioxane	10.575	88	1059	72.35	ug/L	88
59) cis-1,3-dichloropropene	11.084	75	39867	16.61	ug/L	100
61) 4-methyl-2-pentanone	11.180	43	33300	13.43	ug/L	99
62) toluene	11.858	92	77197	13.49	ug/L	97
63) trans-1,3-dichloropropene	11.505	75	32642	16.48	ug/L	94
64) 1,1,2-trichloroethane	11.674	83	23582	14.03	ug/L	99
65) ethyl methacrylate	11.872	69	26143	12.94	ug/L	91
67) tetrachloroethene	12.597	166	26610	13.41	ug/L	95
68) 1,3-dichloropropane	11.908	76	44586	13.65	ug/L	99
69) dibromochloromethane	12.201	129	27716	15.58	ug/L	99
70) 1,2-dibromoethane	12.459	107	23607	13.67	ug/L	98
71) 2-hexanone	12.039	43	19151	13.33	ug/L	96
72) chlorobenzene	13.280	112	81114	13.60	ug/L	96
73) 1,1,1,2-tetrachloroethane	13.191	131	29106	14.56	ug/L	97
74) ethylbenzene	13.449	91	152343	13.52	ug/L	99
75) m,p-xylene	13.633	106	109924	26.64	ug/L	98
76) o-xylene	14.047	106	55599	13.14	ug/L	99
77) styrene	13.976	104	88130	14.22	ug/L	98
78) bromoform	13.803	173	15149	15.43	ug/L	98
79) trans-1,4-dichloro-2-b...	14.199	53	1507	9.71	ug/L	# 1
81) isopropylbenzene	14.407	105	136676	13.51	ug/L	99
83) bromobenzene	14.701	156	32516	13.64	ug/L	97
84) 1,1,2,2-tetrachloroethane	14.047	83	31401	11.68	ug/L	98
85) 1,2,3-trichloropropane	14.199	75	26361	12.95	ug/L	96
86) n-propylbenzene	14.853	91	167923	13.84	ug/L	99
87) 2-chlorotoluene	14.973	91	113672	13.81	ug/L	99
88) 4-chlorotoluene	15.047	91	112129	13.69	ug/L	98
89) 1,3,5-trimethylbenzene	15.128	105	126551	13.05	ug/L	97
90) tert-butylbenzene	15.436	91	77275	13.78	ug/L	96
91) 1,2,4-trimethylbenzene	15.539	105	123788	13.84	ug/L	97
92) sec-butylbenzene	15.652	105	149867	14.07	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89154.D
Acq On : 29 Jul 2014 9:48 pm
Operator : krystend
Sample : IC3306-10
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jul 30 11:46:20 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:17:40 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93)	1,3-dichlorobenzene	15.761	146	60753	13.17	ug/L	98
94)	p-isopropyltoluene	15.825	119	120225	14.55	ug/L	97
95)	1,4-dichlorobenzene	15.828	146	57962	13.03	ug/L	99
96)	1,2-dichlorobenzene	16.196	146	57437	14.25	ug/L	96
97)	n-butylbenzene	16.242	91	96944	15.28	ug/L	97
98)	1,2-dibromo-3-chloropr...	16.670	75	3184	13.19	ug/L	92
99)	1,2,4-trichlorobenzene	18.020	180	3975	4.55	ug/L	96
100)	1,3,5-trichlorobenzene	17.479	180	30956	15.46	ug/L	97
101)	hexachlorobutadiene	18.307	225	14457	14.69	ug/L	97
102)	naphthalene	18.293	128	17086	12.83	ug/L	100
103)	1,2,3-trichlorobenzene	18.501	180	3630	6.57	ug/L	88
104)	2-methylnaphthalene	19.671	142	5855	6.23	ug/L #	100
105)	1-methylnaphthalene	19.922	142	4972	6.12	ug/L #	100

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

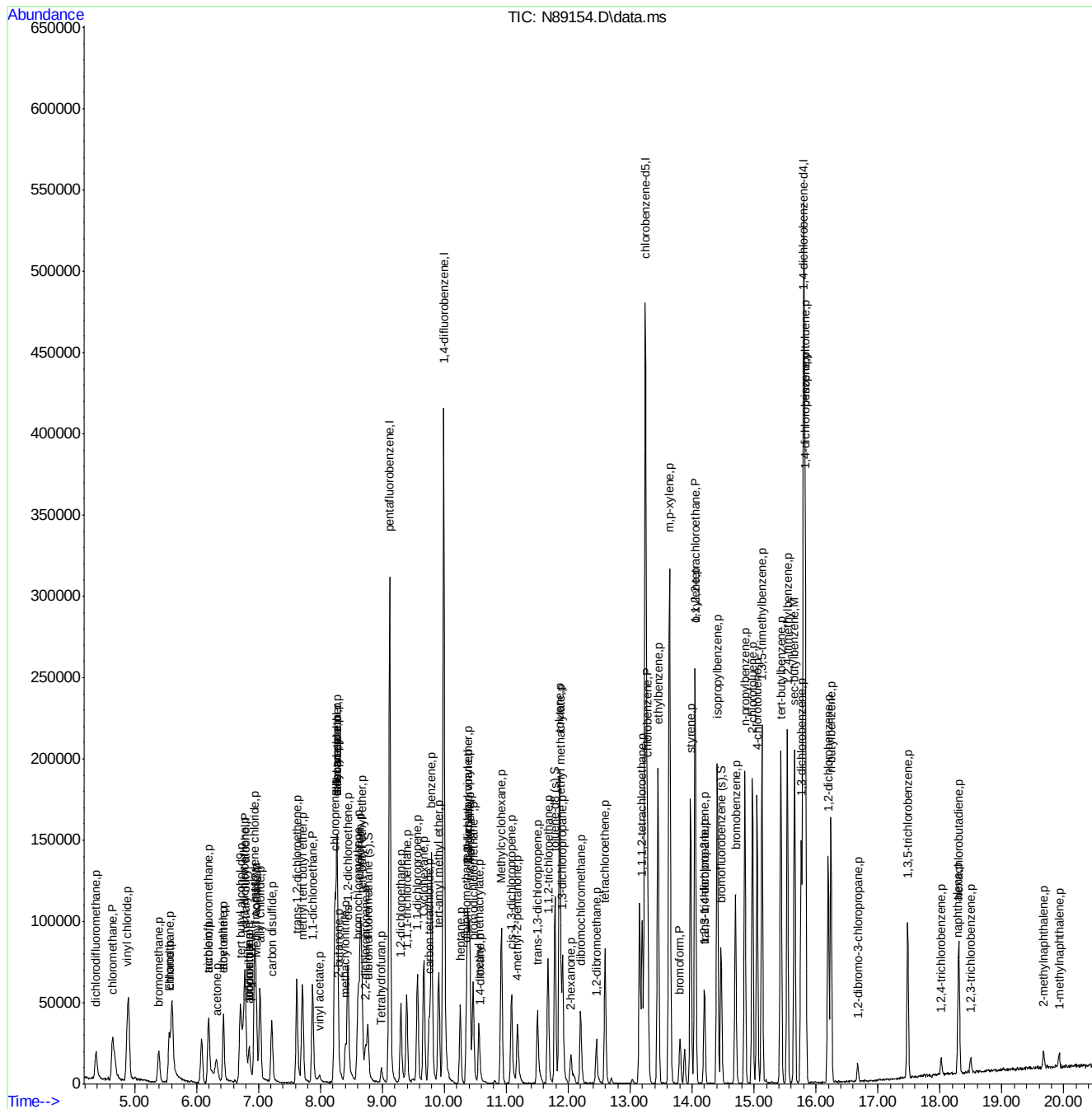
7.6.5

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89154.D
Acq On : 29 Jul 2014 9:48 pm
Operator : krystend
Sample : IC3306-10
Misc : ms32328,MSN3306,,,5,1
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jul 30 11:46:20 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:17:40 2014
Response via : Initial Calibration



n140729w.m Wed Jul 30 12:18:56 2014

Page: 4

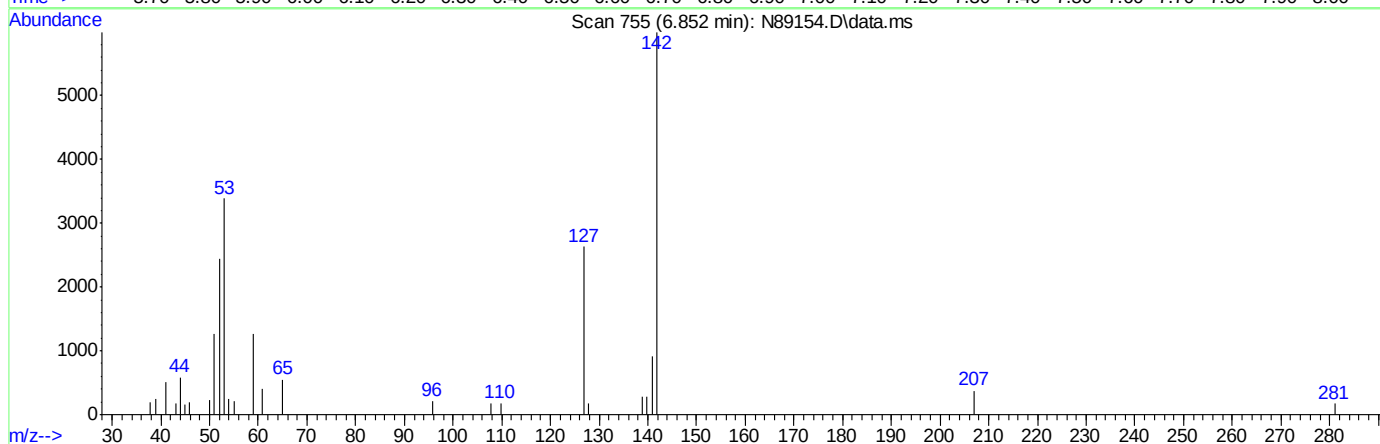
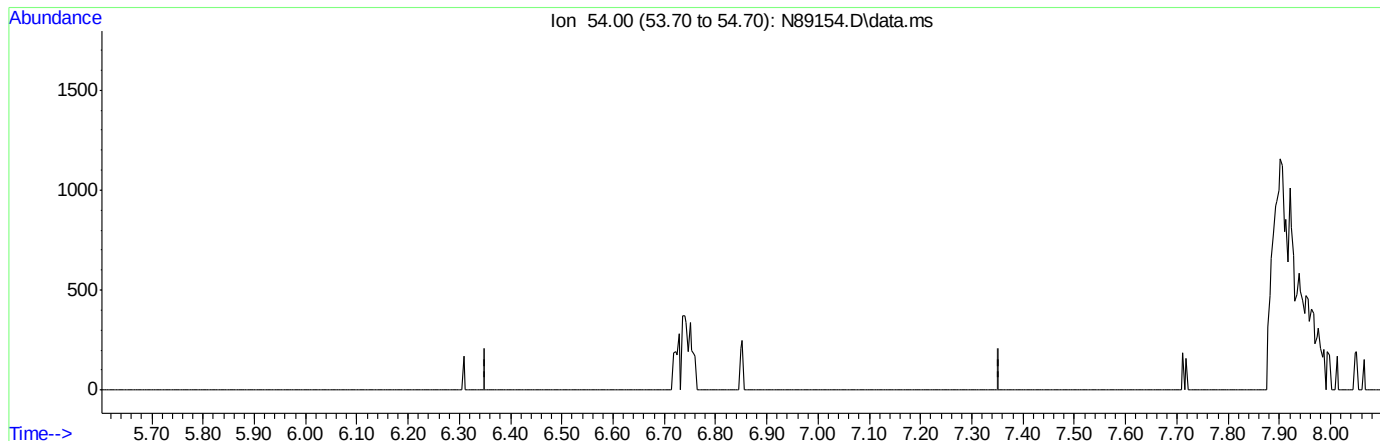
7.6.5



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89154.D
Acq On : 29 Jul 2014 9:48 pm
Operator : krystend
Sample : IC3306-10
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jul 30 09:17:52 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:17:40 2014
Response via : Initial Calibration



(25) propionitrile (p)

6.853min (-6.853) 0.00ug/L

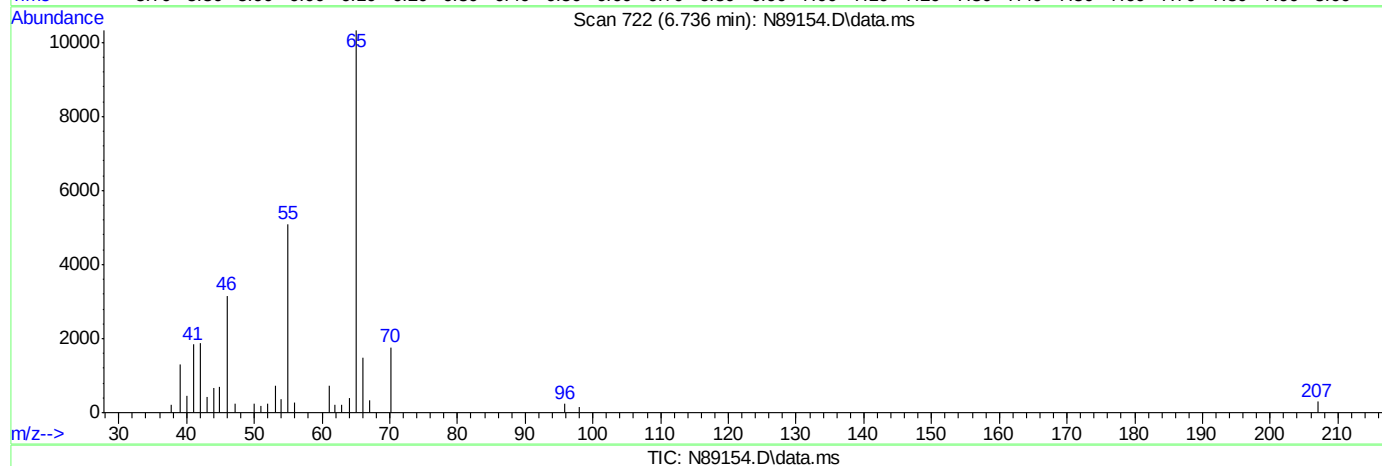
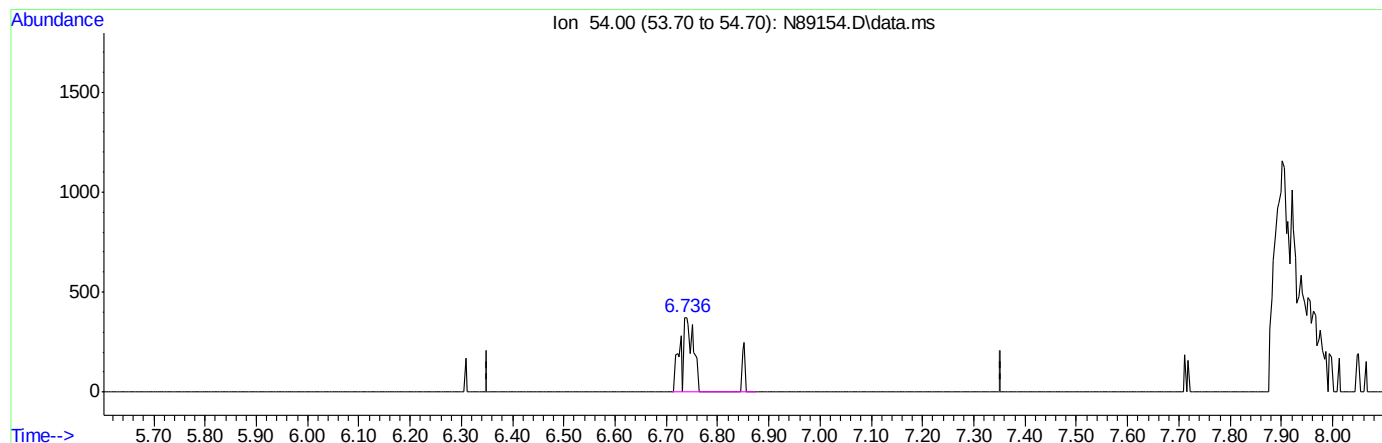
response 0

Ion	Exp%	Act%
54.00	100	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89154.D
Acq On : 29 Jul 2014 9:48 pm
Operator : krystend
Sample : IC3306-10
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jul 30 09:17:52 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:17:40 2014
Response via : Initial Calibration



(25) propionitrile (p)

6.736min (-0.117) 23.00ug/L m

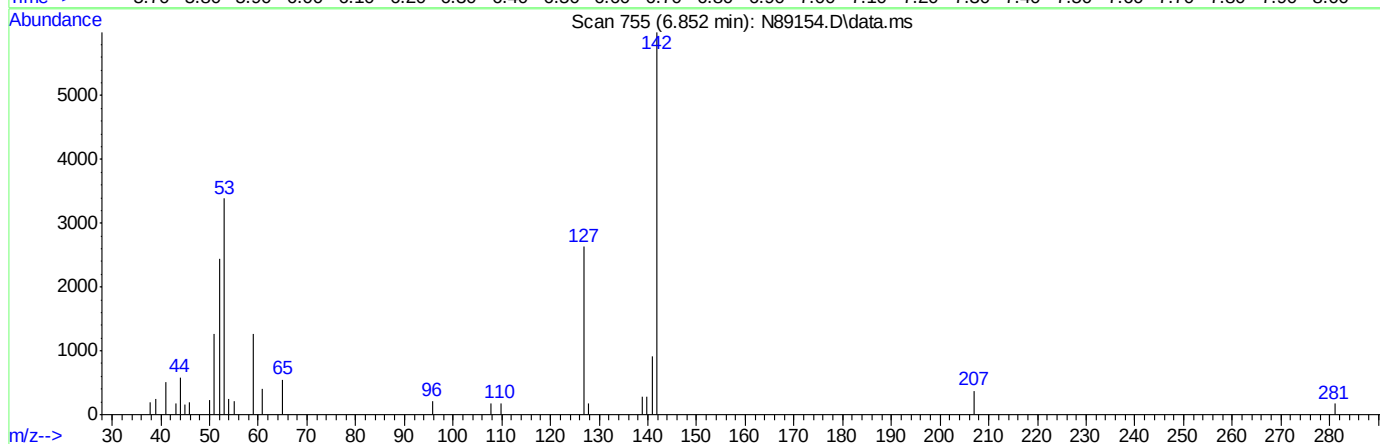
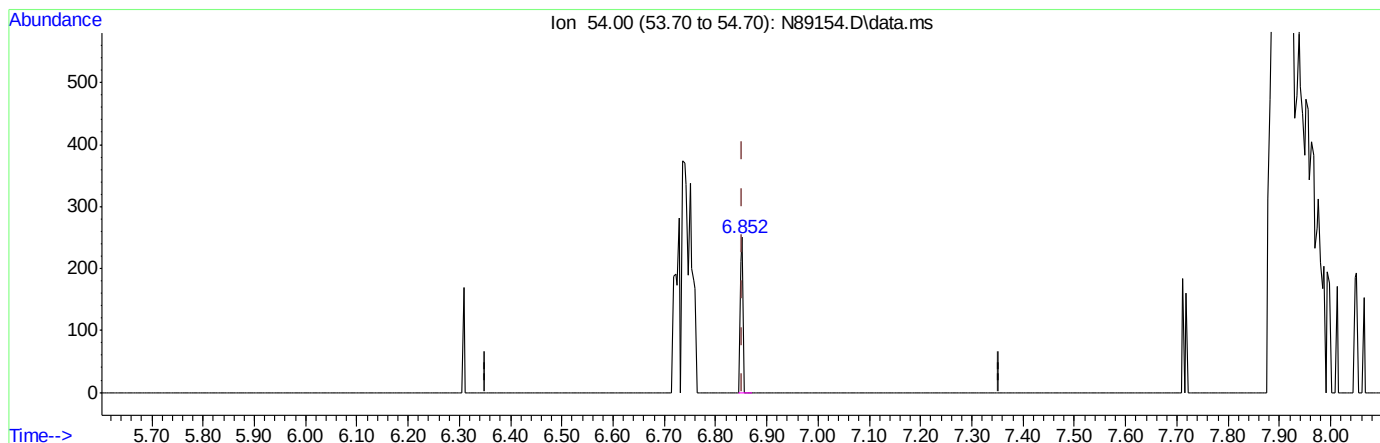
response 732

Ion	Exp%	Act%
54.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89154.D
Acq On : 29 Jul 2014 9:48 pm
Operator : krystend
Sample : IC3306-10
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jul 30 09:18:14 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:17:40 2014
Response via : Initial Calibration



(25) propionitrile (p)

6.852min (-0.000) 3.08ug/L m

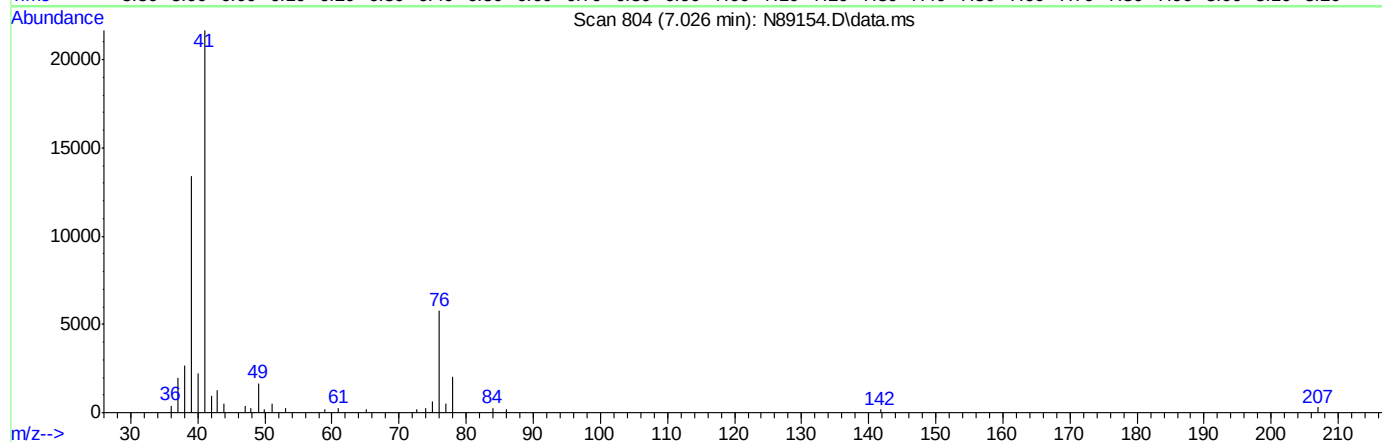
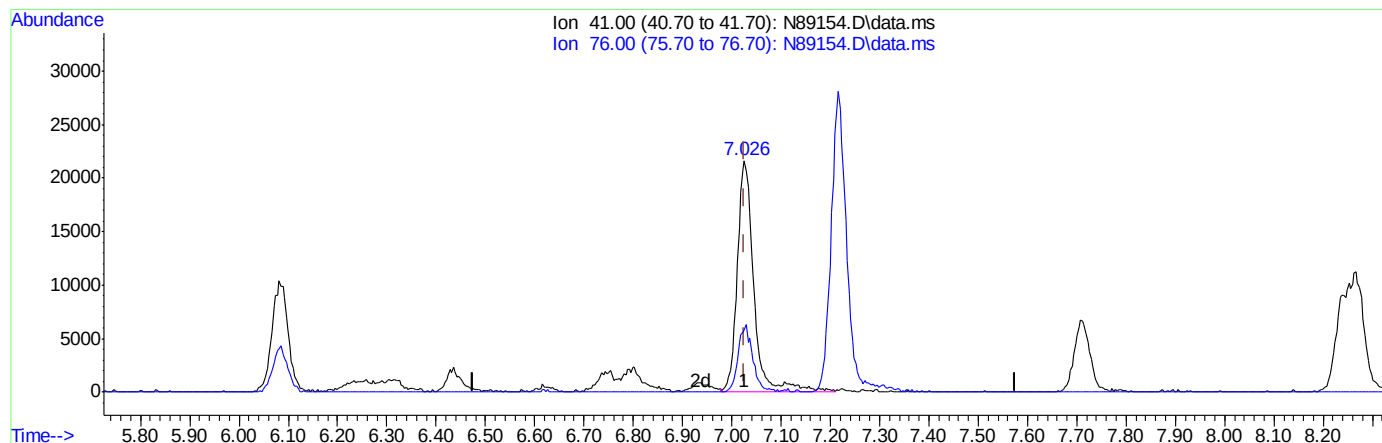
response 98

Ion	Exp%	Act%
54.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89154.D
Acq On : 29 Jul 2014 9:48 pm
Operator : krystend
Sample : IC3306-10
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jul 30 09:36:06 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:17:40 2014
Response via : Initial Calibration



TIC: N89154.D\data.ms

(21) allyl chloride (p)

7.026min (-0.000) 16.78ug/L

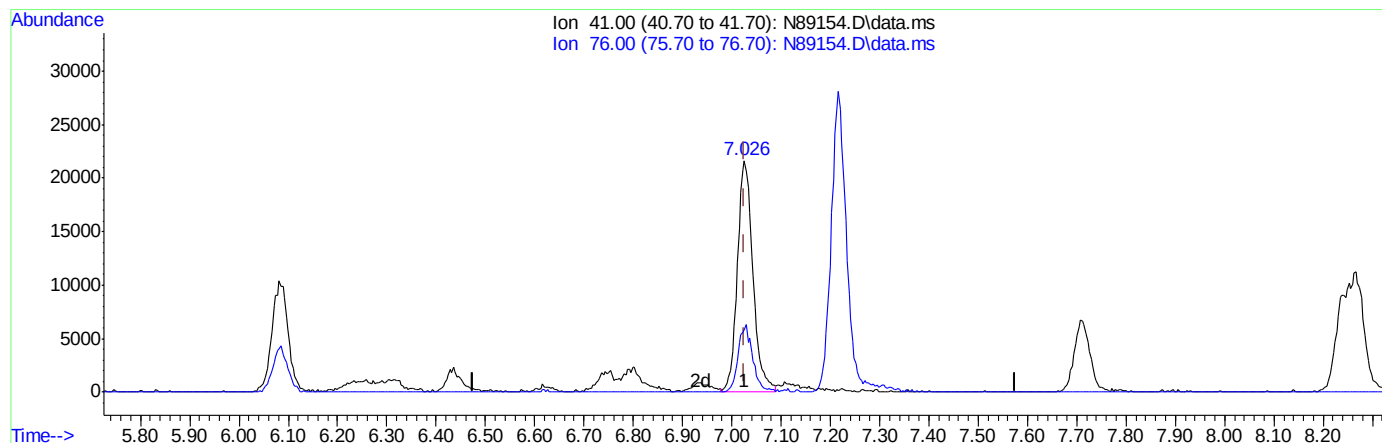
response 50771

Ion	Exp%	Act%
41.00	100	100
76.00	27.00	26.61
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89154.D
Acq On : 29 Jul 2014 9:48 pm
Operator : krystend
Sample : IC3306-10
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jul 30 09:36:06 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:17:40 2014
Response via : Initial Calibration



(21) allyl chloride (p)

7.026min (-0.000) 15.69ug/L m

response 47475

Ion	Exp%	Act%
41.00	100	100
76.00	27.00	26.61
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140729\
 Data File : N89155.D
 Acq On : 29 Jul 2014 10:15 pm
 Operator : krystend
 Sample : IC3306-25
 Misc : ms32328,MSN3306,,,,5,1
 ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jul 30 11:50:42 2014
 Quant Method : C:\msdchem\1\methods\n140729w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Wed Jul 30 09:19:10 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.700	65	76881	500.00	ug/L	0.00
4) pentafluorobenzene	9.119	168	223137	50.00	ug/L	0.00
43) 1,4-difluorobenzene	9.988	114	337664	50.00	ug/L	0.00
66) chlorobenzene-d5	13.244	82	176380	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.797	152	135548	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.769	113	56149	21.31	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	42.62%#		
60) toluene-d8 (s)	11.784	98	215969	21.43	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	42.86%#		
82) bromofluorobenzene (s)	14.468	95	87656	20.26	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	40.52%#		
Target Compounds						
					Qvalue	
2) tertiary butyl alcohol	6.785	59	71346	265.31	ug/L	# 100
3) Ethanol	5.555	45	108091m	2797.19	ug/L	
5) dichlorodifluoromethane	4.378	85	67143	27.49	ug/L	96
6) chloromethane	4.643	50	94874	25.62	ug/L	96
7) vinyl chloride	4.883	62	66937	24.73	ug/L	99
8) bromomethane	5.389	96	42420	27.71	ug/L	97
9) chloroethane	5.559	64	53207	26.24	ug/L	100
10) ethyl ether	6.432	59	66739	25.74	ug/L	98
11) acetonitrile	6.432	41	9104	23.63	ug/L	95
12) trichlorofluoromethane	6.198	101	85566	28.39	ug/L	98
13) freon-113	6.959	101	47315	32.32	ug/L	96
14) acrolein	6.198	56	13204	109.21	ug/L	100
15) 1,1-dichloroethene	6.778	96	51385	22.63	ug/L	100
16) acetone	6.329	58	9578	24.95	ug/L	99
17) Methyl Acetate	6.966	43	52299	25.57	ug/L	99
18) methylene chloride	6.941	84	65609	25.27	ug/L	98
19) methyl tert butyl ether	7.705	73	124432	23.99	ug/L	97
20) acrylonitrile	6.845	53	23853	25.25	ug/L	97
21) allyl chloride	7.026	41	105360m	28.13	ug/L	
22) trans-1,2-dichloroethene	7.620	96	62356	28.72	ug/L	94
23) iodomethane	6.853	142	36888	26.99	ug/L	100
24) carbon disulfide	7.217	76	143521	27.45	ug/L	97
25) propionitrile	6.842	54	677m	14.70	ug/L	
26) vinyl acetate	7.977	43	35973	26.51	ug/L	92
27) chloroprene	8.231	53	134012	28.12	ug/L	100
28) di-isopropyl ether	8.267	45	300349	26.86	ug/L	97
29) methacrylonitrile	8.401	41	38223	24.41	ug/L	98
30) 2-butanone	8.291	72	5289	28.99	ug/L	# 35
31) Hexane	8.242	41	95315	28.50	ug/L	# 70
32) 1,1-dichloroethane	7.871	63	156905	32.00	ug/L	99
33) tert-butyl ethyl ether	8.659	59	102148	20.00	ug/L	96
34) isobutyl alcohol	8.263	43	203531	132.27	ug/L	95
35) 2,2-dichloropropane	8.730	77	48457	39.34	ug/L	100
36) cis-1,2-dichloroethene	8.440	96	70813	27.24	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140729\
 Data File : N89155.D
 Acq On : 29 Jul 2014 10:15 pm
 Operator : krystend
 Sample : IC3306-25
 Misc : ms32328,MSN3306,,,,5,1
 ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jul 30 11:50:42 2014
 Quant Method : C:\msdchem\1\methods\n140729w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Wed Jul 30 09:19:10 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) ethyl acetate	8.263	43	203531	26.45	ug/L	93
38) bromochloromethane	8.610	128	30230	26.11	ug/L	97
39) chloroform	8.645	83	124166	27.73	ug/L	96
41) Tetrahydrofuran	8.984	42	17748	25.55	ug/L	94
42) 1,1,1-trichloroethane	9.394	97	99346	52.66	ug/L	97
44) Cyclohexane	9.670	56	133603	31.64	ug/L	99
45) carbon tetrachloride	9.759	117	69081	34.82	ug/L	99
46) 1,1-dichloropropene	9.564	75	84737	28.61	ug/L	99
47) benzene	9.794	78	261857	26.80	ug/L	99
48) 1,2-dichloroethane	9.299	62	117441	30.87	ug/L	99
49) tert-amyl methyl ether	9.911	73	82846	18.60	ug/L	98
50) heptane	10.257	43	70097	32.62	ug/L	97
51) trichloroethene	10.409	95	78195	25.57	ug/L	99
52) 1,2-dichloropropane	10.377	63	91808	29.42	ug/L	99
53) dibromomethane	10.356	93	37591	27.20	ug/L	94
54) bromodichloromethane	10.466	83	94782	29.37	ug/L	100
55) Methylcyclohexane	10.922	83	100021	32.37	ug/L	97
56) 2-chloroethyl vinyl ether	10.377	63	91808	26.99	ug/L	# 99
57) methyl methacrylate	10.554	69	32445	26.49	ug/L	99
58) 1,4-dioxane	10.561	88	2625	157.34	ug/L	87
59) cis-1,3-dichloropropene	11.081	75	94286	35.67	ug/L	98
61) 4-methyl-2-pentanone	11.176	43	69790	25.47	ug/L	100
62) toluene	11.858	92	165785	27.29	ug/L	98
63) trans-1,3-dichloropropene	11.501	75	75043	34.48	ug/L	99
64) 1,1,2-trichloroethane	11.675	83	50051	27.78	ug/L	94
65) ethyl methacrylate	11.869	69	59509	27.04	ug/L	96
67) tetrachloroethene	12.594	166	61282	29.04	ug/L	97
68) 1,3-dichloropropane	11.908	76	94646	25.68	ug/L	99
69) dibromochloromethane	12.198	129	60542	30.95	ug/L	100
70) 1,2-dibromoethane	12.456	107	51555	27.17	ug/L	98
71) 2-hexanone	12.032	43	44829	27.91	ug/L	99
72) chlorobenzene	13.280	112	171255	26.62	ug/L	98
73) 1,1,1,2-tetrachloroethane	13.191	131	62635	28.54	ug/L	97
74) ethylbenzene	13.449	91	328090	27.03	ug/L	99
75) m,p-xylene	13.637	106	229006	52.26	ug/L	99
76) o-xylene	14.047	106	118094	26.35	ug/L	99
77) styrene	13.973	104	187738	26.40	ug/L	98
78) bromoform	13.799	173	34035	31.08	ug/L	94
79) trans-1,4-dichloro-2-b...	14.195	53	5406	34.94	ug/L	# 59
81) isopropylbenzene	14.407	105	303760	26.28	ug/L	98
83) bromobenzene	14.701	156	68286	24.97	ug/L	97
84) 1,1,2,2-tetrachloroethane	14.050	83	65859	23.30	ug/L	96
85) 1,2,3-trichloropropane	14.199	75	57327	25.07	ug/L	91
86) n-propylbenzene	14.849	91	375138	26.79	ug/L	99
87) 2-chlorotoluene	14.973	91	241191	25.42	ug/L	100
88) 4-chlorotoluene	15.051	91	245868	26.14	ug/L	99
89) 1,3,5-trimethylbenzene	15.129	105	272814	25.92	ug/L	98
90) tert-butylbenzene	15.433	91	172062	26.64	ug/L	100
91) 1,2,4-trimethylbenzene	15.539	105	268756	27.28	ug/L	98
92) sec-butylbenzene	15.652	105	346718	28.02	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89155.D
Acq On : 29 Jul 2014 10:15 pm
Operator : krystend
Sample : IC3306-25
Misc : ms32328,MSN3306,,,,,5,1
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jul 30 11:50:42 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:19:10 2014
Response via : Initial Calibration

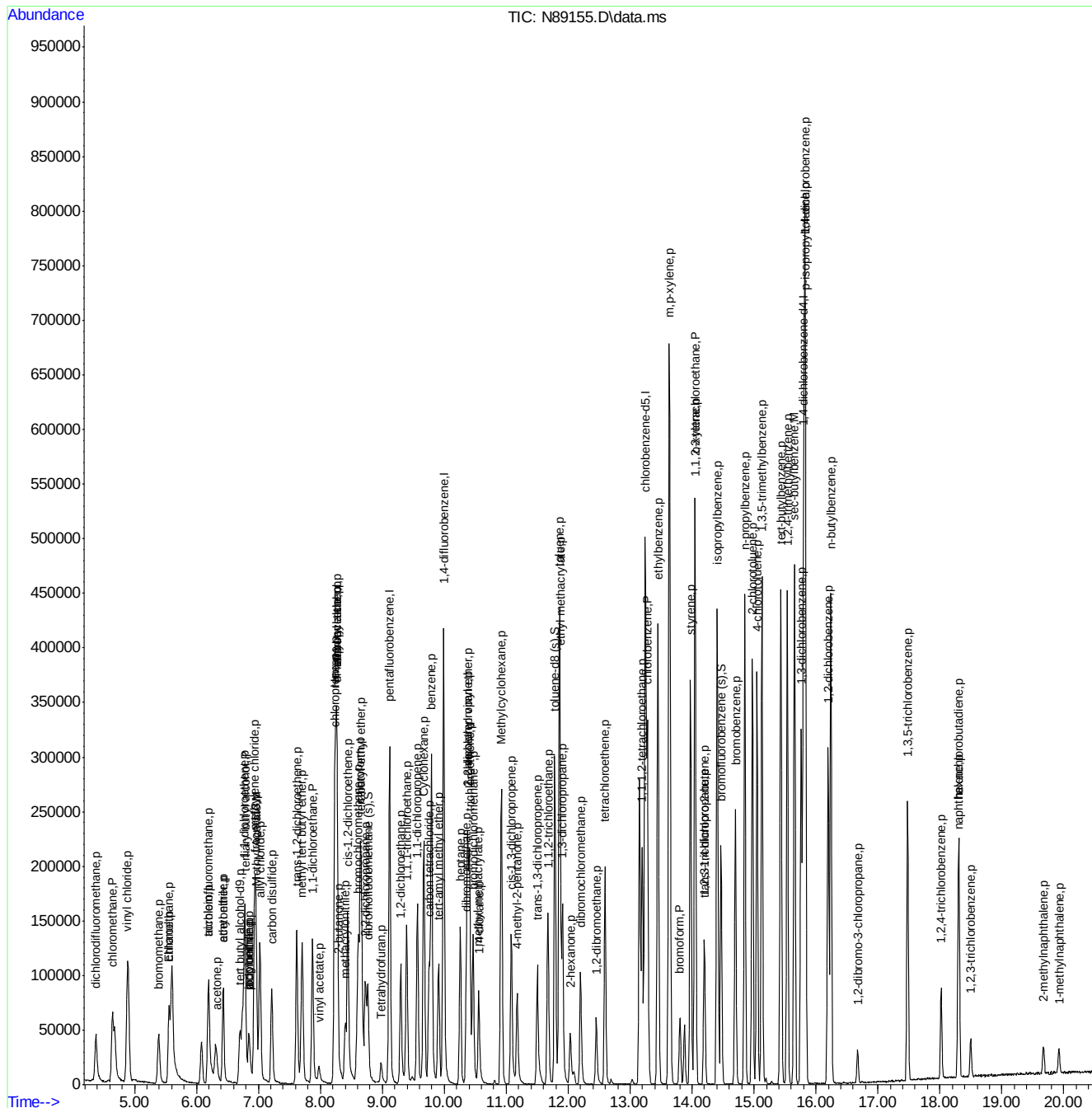
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,3-dichlorobenzene	15.761	146	134989	26.90	ug/L	95
94) p-isopropyltoluene	15.825	119	277409	28.50	ug/L	99
95) 1,4-dichlorobenzene	15.829	146	126101	26.12	ug/L	99
96) 1,2-dichlorobenzene	16.196	146	127851	28.57	ug/L	99
97) n-butylbenzene	16.239	91	263051	34.47	ug/L	97
98) 1,2-dibromo-3-chloropr...	16.674	75	8779	32.14	ug/L	97
99) 1,2,4-trichlorobenzene	18.021	180	27166	37.17	ug/L	100
100) 1,3,5-trichlorobenzene	17.480	180	81784	33.78	ug/L	97
101) hexachlorobutadiene	18.307	225	41965	36.05	ug/L	98
102) naphthalene	18.296	128	33412	22.42	ug/L	100
103) 1,2,3-trichlorobenzene	18.498	180	11868	23.70	ug/L	99
104) 2-methylnaphthalene	19.672	142	14303	13.76	ug/L #	100
105) 1-methylnaphthalene	19.923	142	13443	15.05	ug/L #	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89155.D
Acq On : 29 Jul 2014 10:15 pm
Operator : krystend
Sample : IC3306-25
Misc : ms32328,MSN3306,,,5,1
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jul 30 11:50:42 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:19:10 2014
Response via : Initial Calibration



n140729w.m Wed Jul 30 12:19:01 2014

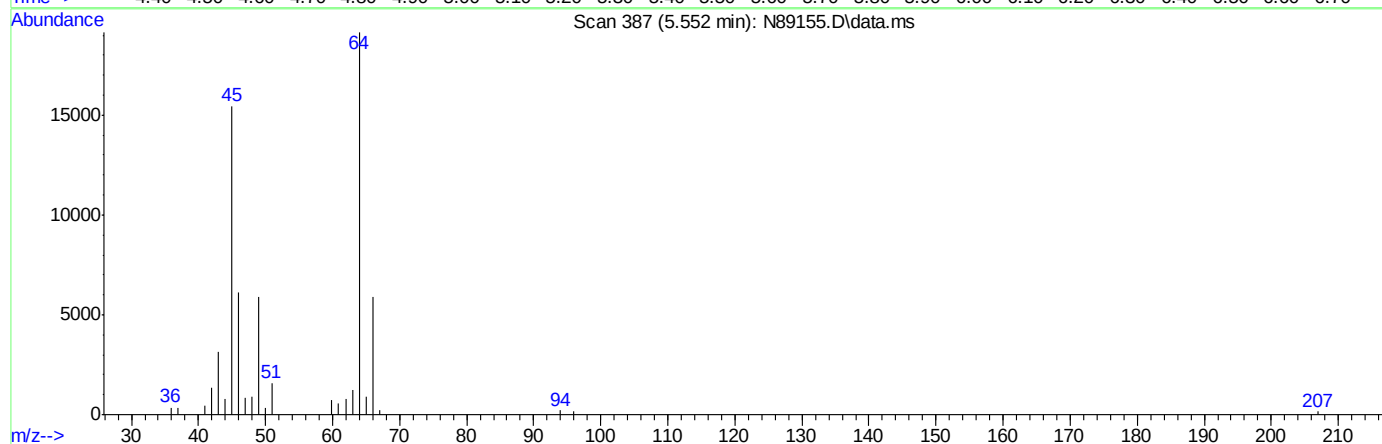
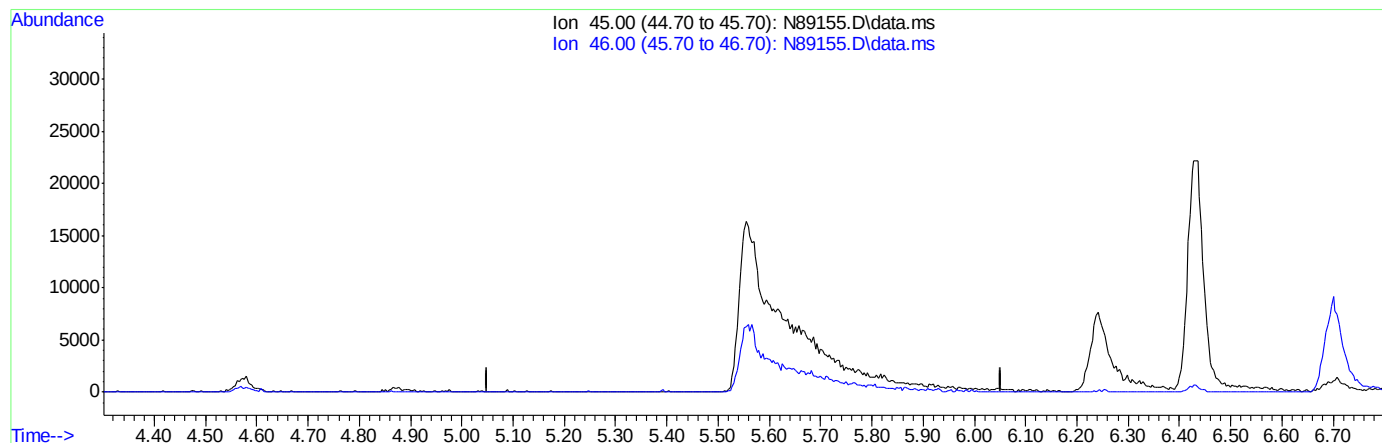
Page: 4

7.6.6

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89155.D
Acq On : 29 Jul 2014 10:15 pm
Operator : krystend
Sample : IC3306-25
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jul 30 09:19:23 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:19:10 2014
Response via : Initial Calibration



(3) Ethanol (p)

5.552min (-5.552) 0.00ug/L

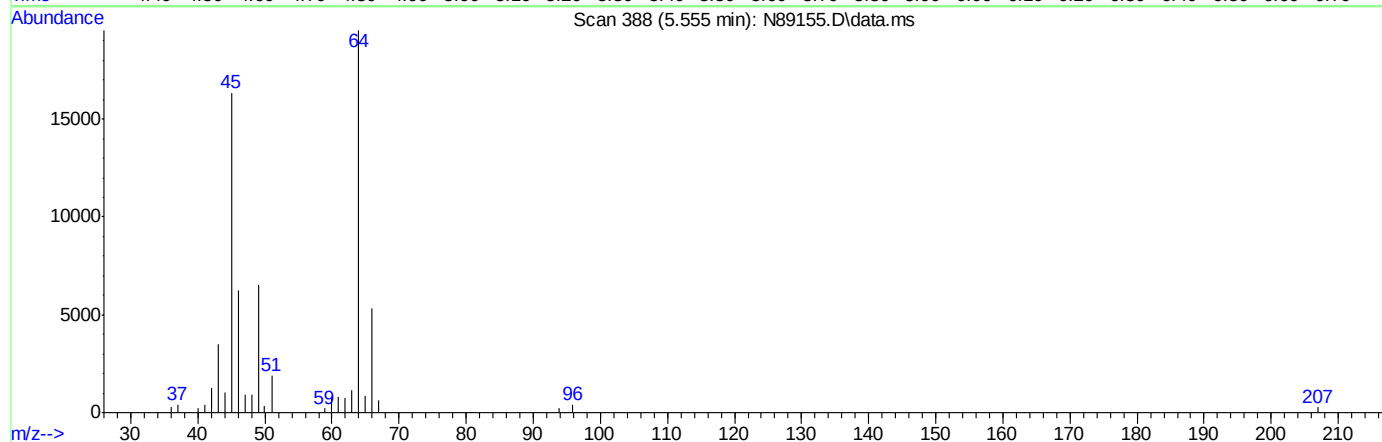
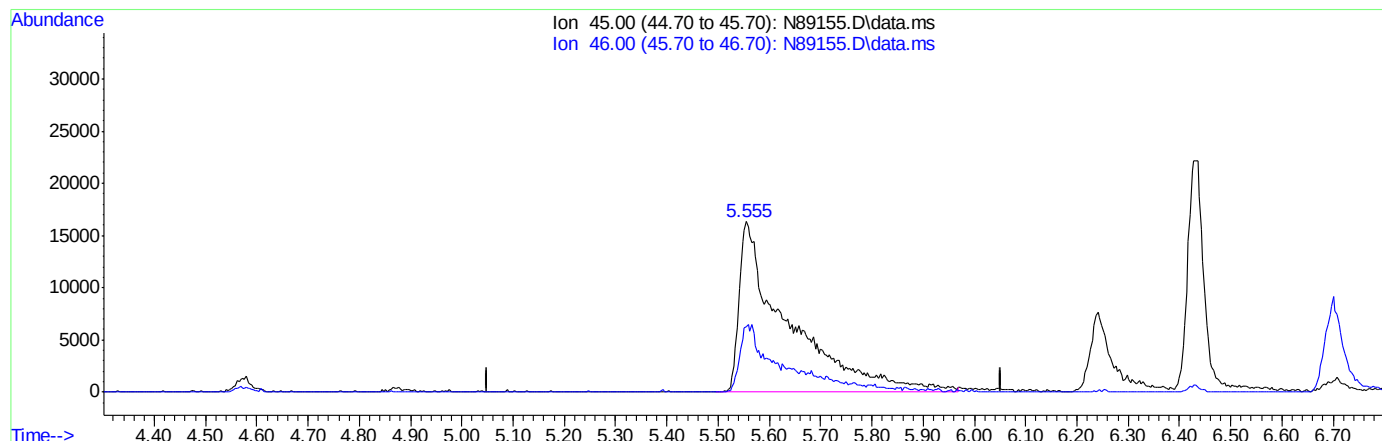
response 0

Ion	Exp%	Act%
45.00	100	0.00
46.00	36.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89155.D
Acq On : 29 Jul 2014 10:15 pm
Operator : krystend
Sample : IC3306-25
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jul 30 09:19:23 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:19:10 2014
Response via : Initial Calibration



(3) Ethanol (p)

5.555min (+0.003) 2797.19ug/L m

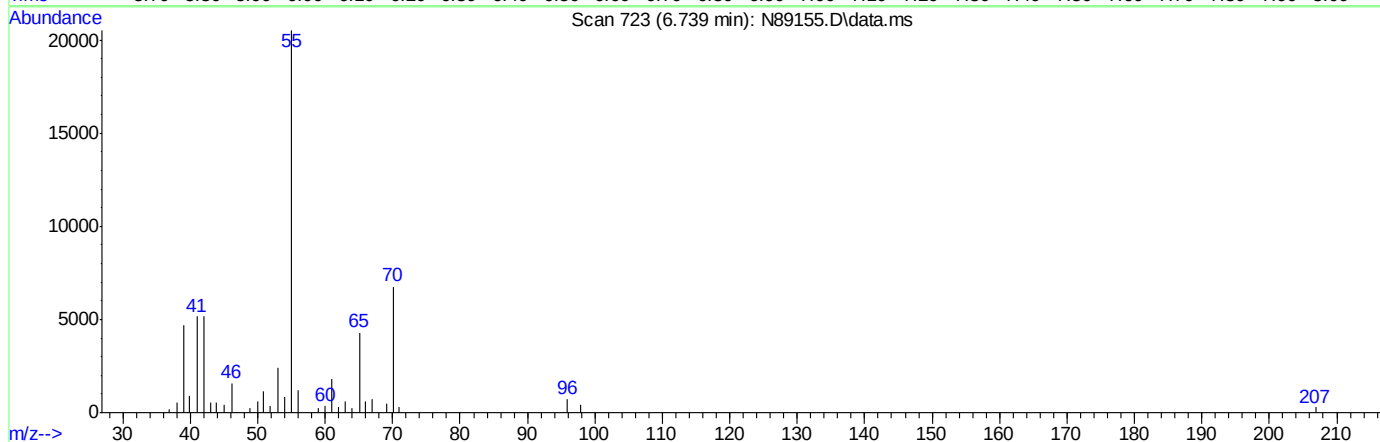
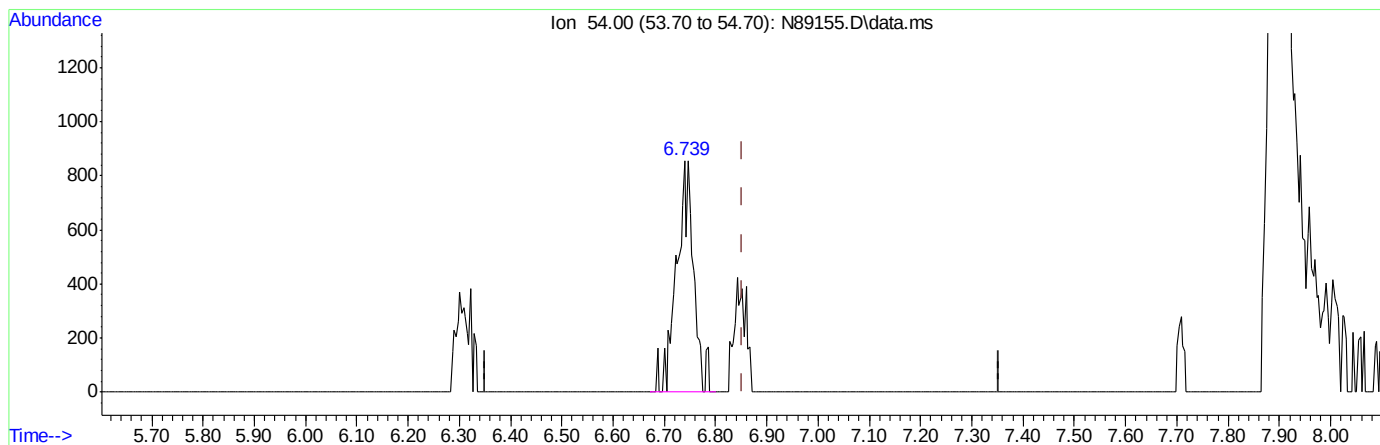
response 108091

Ion	Exp%	Act%
45.00	100	100
46.00	36.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89155.D
Acq On : 29 Jul 2014 10:15 pm
Operator : krystend
Sample : IC3306-25
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jul 30 09:19:23 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:19:10 2014
Response via : Initial Calibration



TIC: N89155.D\data.ms

(25) propionitrile (p)

6.739min (-0.113) 42.63ug/L

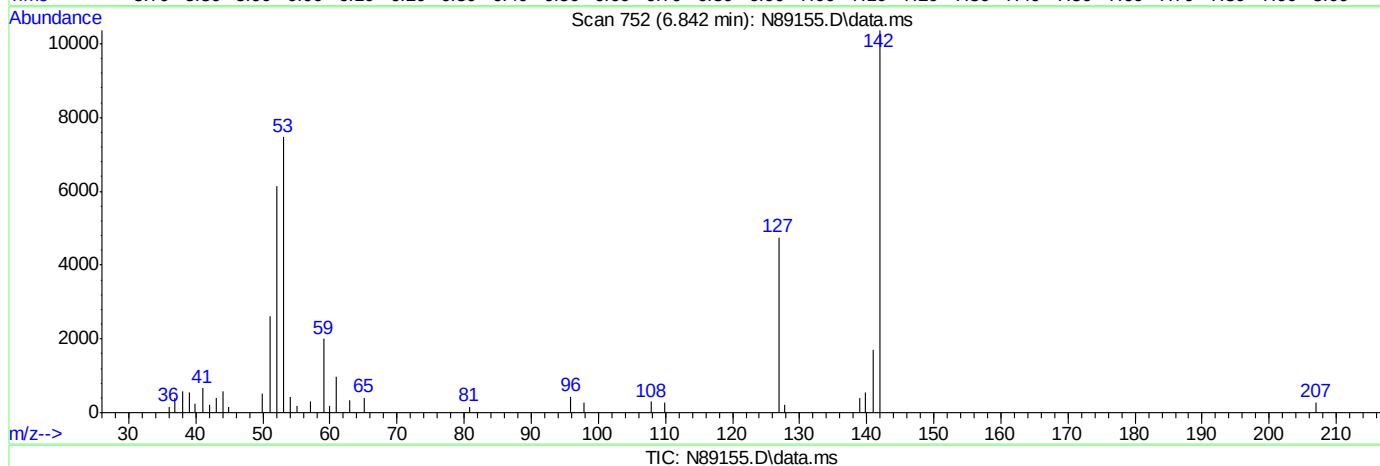
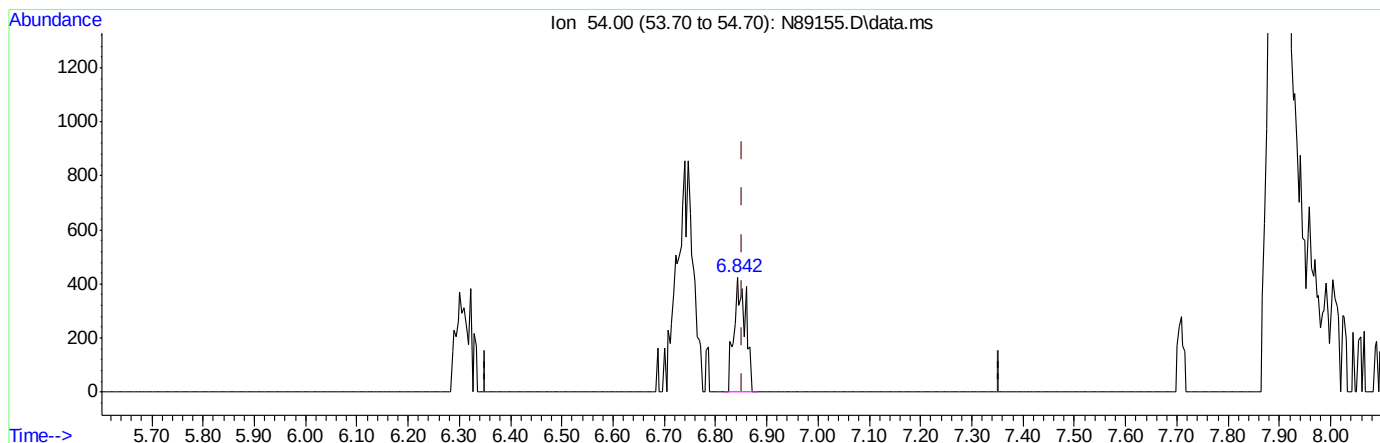
response 1963

Ion	Exp%	Act%
54.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89155.D
Acq On : 29 Jul 2014 10:15 pm
Operator : krystend
Sample : IC3306-25
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jul 30 09:19:23 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:19:10 2014
Response via : Initial Calibration



(25) propionitrile (p)

6.842min (-0.011) 14.70ug/L m

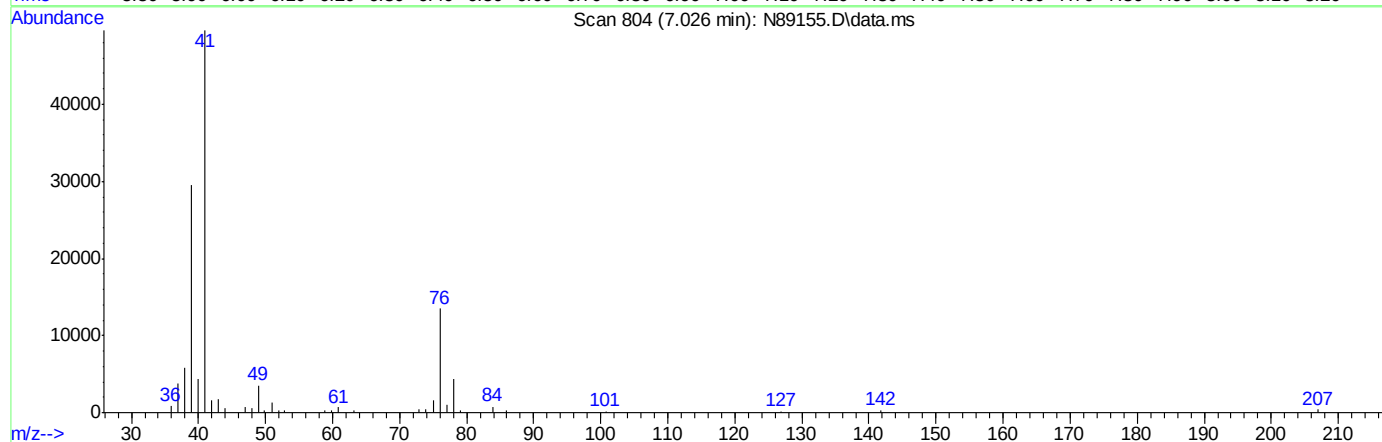
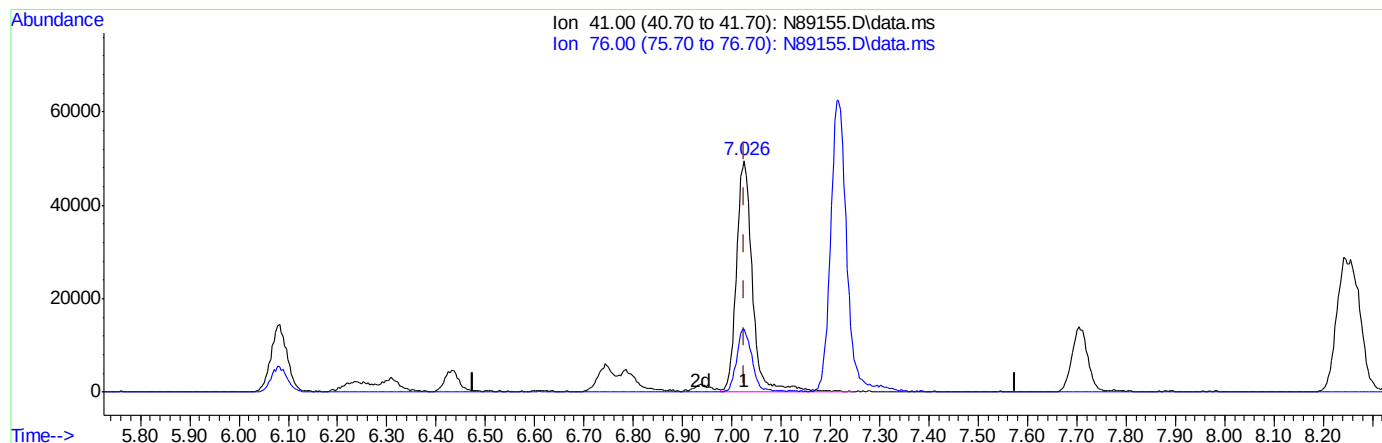
response 677

Ion	Exp%	Act%
54.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89155.D
Acq On : 29 Jul 2014 10:15 pm
Operator : krystend
Sample : IC3306-25
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jul 30 09:19:52 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:19:10 2014
Response via : Initial Calibration



TIC: N89155.D\data.ms

(21) allyl chloride (p)

7.026min (-0.000) 30.01ug/L

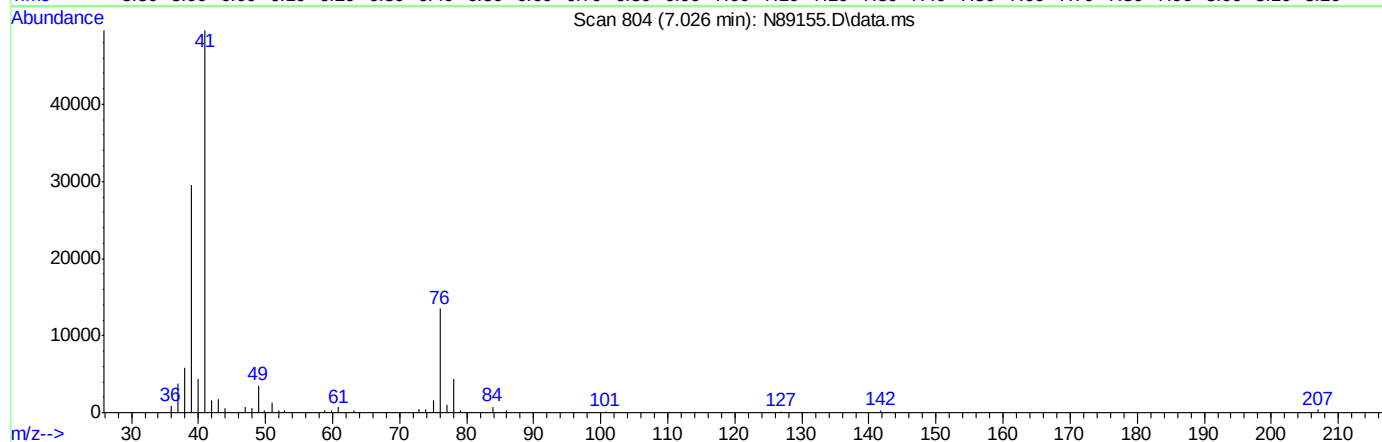
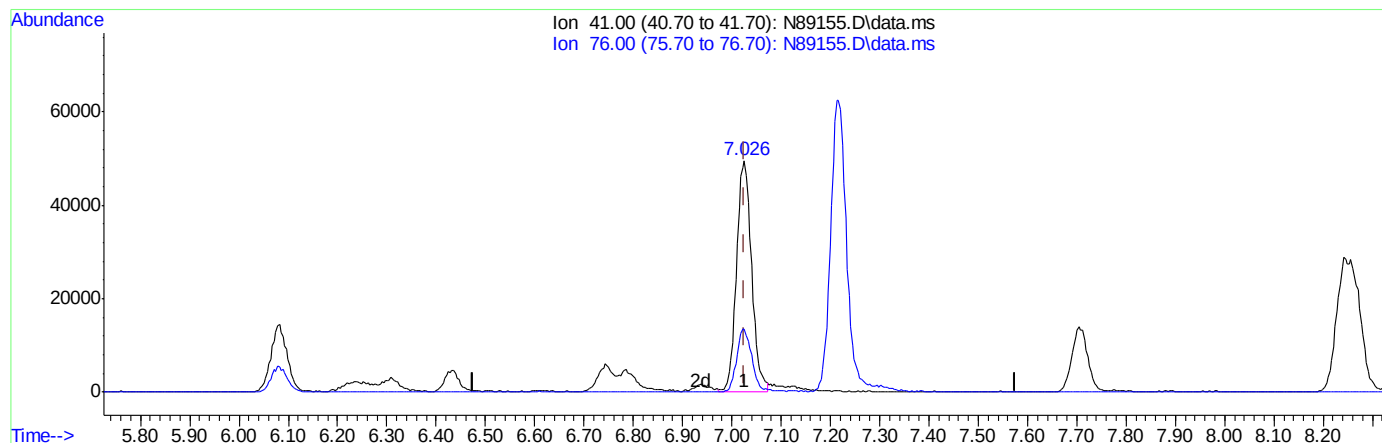
response 112394

Ion	Exp%	Act%
41.00	100	100
76.00	27.00	27.21
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89155.D
Acq On : 29 Jul 2014 10:15 pm
Operator : krystend
Sample : IC3306-25
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jul 30 09:19:52 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:19:10 2014
Response via : Initial Calibration



TIC: N89155.D\data.ms

(21) allyl chloride (p)

7.026min (-0.000) 28.13ug/L m

response 105360

Ion	Exp%	Act%
41.00	100	100
76.00	27.00	27.21
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140729\
 Data File : N89156.D
 Acq On : 29 Jul 2014 10:43 pm
 Operator : krystend
 Sample : ICC3306-50
 Misc : ms32328,MSN3306,,,,5,1
 ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jul 30 09:33:12 2014
 Quant Method : C:\msdchem\1\methods\n140729w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Wed Jul 30 09:25:21 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.693	65	79136	500.00	ug/L	0.00
4) pentafluorobenzene	9.119	168	240038	50.00	ug/L	0.00
43) 1,4-difluorobenzene	9.992	114	367116	50.00	ug/L	0.00
66) chlorobenzene-d5	13.244	82	191539	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.800	152	155005	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.769	113	129046	46.03	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	92.06%		
60) toluene-d8 (s)	11.784	98	504797	47.58	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	95.16%		
82) bromofluorobenzene (s)	14.468	95	206104	43.40	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	86.80%		
Target Compounds						
					Qvalue	
2) tertiary butyl alcohol	6.782	59	137240	488.19	ug/L	# 100
3) Ethanol	5.552	45	191308m	5019.86	ug/L	
5) dichlorodifluoromethane	4.381	85	125022	46.20	ug/L	100
6) chloromethane	4.643	50	183981	46.76	ug/L	100
7) vinyl chloride	4.883	62	127775	49.14	ug/L	100
8) bromomethane	5.389	96	86348	50.11	ug/L	100
9) chloroethane	5.559	64	102126	48.00	ug/L	100
10) ethyl ether	6.428	59	135228	50.14	ug/L	100
11) acetonitrile	6.428	41	18877	49.88	ug/L	100
12) trichlorofluoromethane	6.195	101	163034	47.90	ug/L	100
13) freon-113	6.959	101	92141	52.48	ug/L	100
14) acrolein	6.202	56	27747	173.15	ug/L	100
15) 1,1-dichloroethene	6.782	96	101909	45.20	ug/L	100
16) acetone	6.326	58	17189m	48.74	ug/L	
17) Methyl Acetate	6.959	43	98271	48.14	ug/L	100
18) methylene chloride	6.937	84	130933	49.13	ug/L	100
19) methyl tert butyl ether	7.705	73	299715	50.92	ug/L	100
20) acrylonitrile	6.845	53	53039	52.25	ug/L	100
21) allyl chloride	7.026	41	225529	54.80	ug/L	100
22) trans-1,2-dichloroethene	7.616	96	126921	52.47	ug/L	100
23) iodomethane	6.853	142	74130	49.93	ug/L	100
24) carbon disulfide	7.217	76	299582	50.63	ug/L	100
25) propionitrile	6.853	54	1545	36.98	ug/L	100
26) vinyl acetate	7.973	43	109669	49.54	ug/L	100
27) chloroprene	8.231	53	272312	52.66	ug/L	100
28) di-isopropyl ether	8.263	45	598189	52.83	ug/L	100
29) methacrylonitrile	8.397	41	77455	47.43	ug/L	99
30) 2-butanone	8.284	72	11416	52.64	ug/L	100
31) Hexane	8.249	41	183511	52.24	ug/L	100
32) 1,1-dichloroethane	7.874	63	321848	55.97	ug/L	100
33) tert-butyl ethyl ether	8.659	59	337370	50.10	ug/L	100
34) isobutyl alcohol	8.260	43	398318	257.11	ug/L	100
35) 2,2-dichloropropane	8.726	77	151665	61.57	ug/L	100
36) cis-1,2-dichloroethene	8.440	96	145352	51.09	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140729\
 Data File : N89156.D
 Acq On : 29 Jul 2014 10:43 pm
 Operator : krystend
 Sample : ICC3306-50
 Misc : ms32328,MSN3306,,,,5,1
 ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jul 30 09:33:12 2014
 Quant Method : C:\msdchem\1\methods\n140729w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Wed Jul 30 09:25:21 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) ethyl acetate	8.260	43	398318	51.42	ug/L	100
38) bromochloromethane	8.613	128	62153	51.30	ug/L	100
39) chloroform	8.645	83	251641	52.05	ug/L	100
41) Tetrahydrofuran	8.977	42	35619	47.60	ug/L	99
42) 1,1,1-trichloroethane	9.391	97	212795	69.92	ug/L	100
44) Cyclohexane	9.670	56	271417	53.57	ug/L	100
45) carbon tetrachloride	9.759	117	151119	58.69	ug/L	100
46) 1,1-dichloropropene	9.564	75	175347	51.63	ug/L	100
47) benzene	9.794	78	542634	51.63	ug/L	100
48) 1,2-dichloroethane	9.295	62	223939	51.50	ug/L	100
49) tert-amyl methyl ether	9.907	73	213650	41.73	ug/L	100
50) heptane	10.257	43	132313	50.43	ug/L	100
51) trichloroethene	10.409	95	159340	49.49	ug/L	100
52) 1,2-dichloropropane	10.377	63	191428	54.98	ug/L	100
53) dibromomethane	10.356	93	77849	50.50	ug/L	100
54) bromodichloromethane	10.466	83	204699	54.20	ug/L	100
55) Methylcyclohexane	10.922	83	196358	51.99	ug/L	100
56) 2-chloroethyl vinyl ether	10.377	63	191428	52.81	ug/L	# 100
57) methyl methacrylate	10.554	69	70256	49.52	ug/L	100
58) 1,4-dioxane	10.565	88	5339	254.90	ug/L	100
59) cis-1,3-dichloropropene	11.081	75	214308	61.70	ug/L	100
61) 4-methyl-2-pentanone	11.173	43	141092	48.66	ug/L	100
62) toluene	11.859	92	338581	52.19	ug/L	100
63) trans-1,3-dichloropropene	11.498	75	172683	59.38	ug/L	100
64) 1,1,2-trichloroethane	11.671	83	102932	51.96	ug/L	100
65) ethyl methacrylate	11.869	69	129249	51.42	ug/L	100
67) tetrachloroethene	12.594	166	126291	53.47	ug/L	100
68) 1,3-dichloropropane	11.908	76	202784	50.91	ug/L	100
69) dibromochloromethane	12.198	129	134960	56.97	ug/L	100
70) 1,2-dibromoethane	12.452	107	108900	51.06	ug/L	100
71) 2-hexanone	12.025	43	93842	50.67	ug/L	100
72) chlorobenzene	13.280	112	359374	51.78	ug/L	100
73) 1,1,1,2-tetrachloroethane	13.195	131	135051	54.54	ug/L	100
74) ethylbenzene	13.449	91	681789	51.96	ug/L	100
75) m,p-xylene	13.633	106	470266	102.68	ug/L	100
76) o-xylene	14.047	106	242543	51.35	ug/L	100
77) styrene	13.973	104	394264	51.77	ug/L	100
78) bromoform	13.799	173	76633	55.25	ug/L	100
79) trans-1,4-dichloro-2-b...	14.195	53	16689	46.80	ug/L	99
81) isopropylbenzene	14.408	105	624072	48.15	ug/L	100
83) bromobenzene	14.697	156	145865	48.11	ug/L	100
84) 1,1,2,2-tetrachloroethane	14.047	83	137110	45.80	ug/L	100
85) 1,2,3-trichloropropane	14.195	75	128434	46.14	ug/L	100
86) n-propylbenzene	14.849	91	757425	47.79	ug/L	100
87) 2-chlorotoluene	14.973	91	500442	47.62	ug/L	100
88) 4-chlorotoluene	15.047	91	512821	48.15	ug/L	100
89) 1,3,5-trimethylbenzene	15.129	105	553070	47.11	ug/L	100
90) tert-butylbenzene	15.433	91	345069	47.07	ug/L	100
91) 1,2,4-trimethylbenzene	15.535	105	550984	49.06	ug/L	100
92) sec-butylbenzene	15.652	105	679067	47.48	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89156.D
Acq On : 29 Jul 2014 10:43 pm
Operator : krystend
Sample : ICC3306-50
Misc : ms32328,MSN3306,,,,,5,1
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jul 30 09:33:12 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:25:21 2014
Response via : Initial Calibration

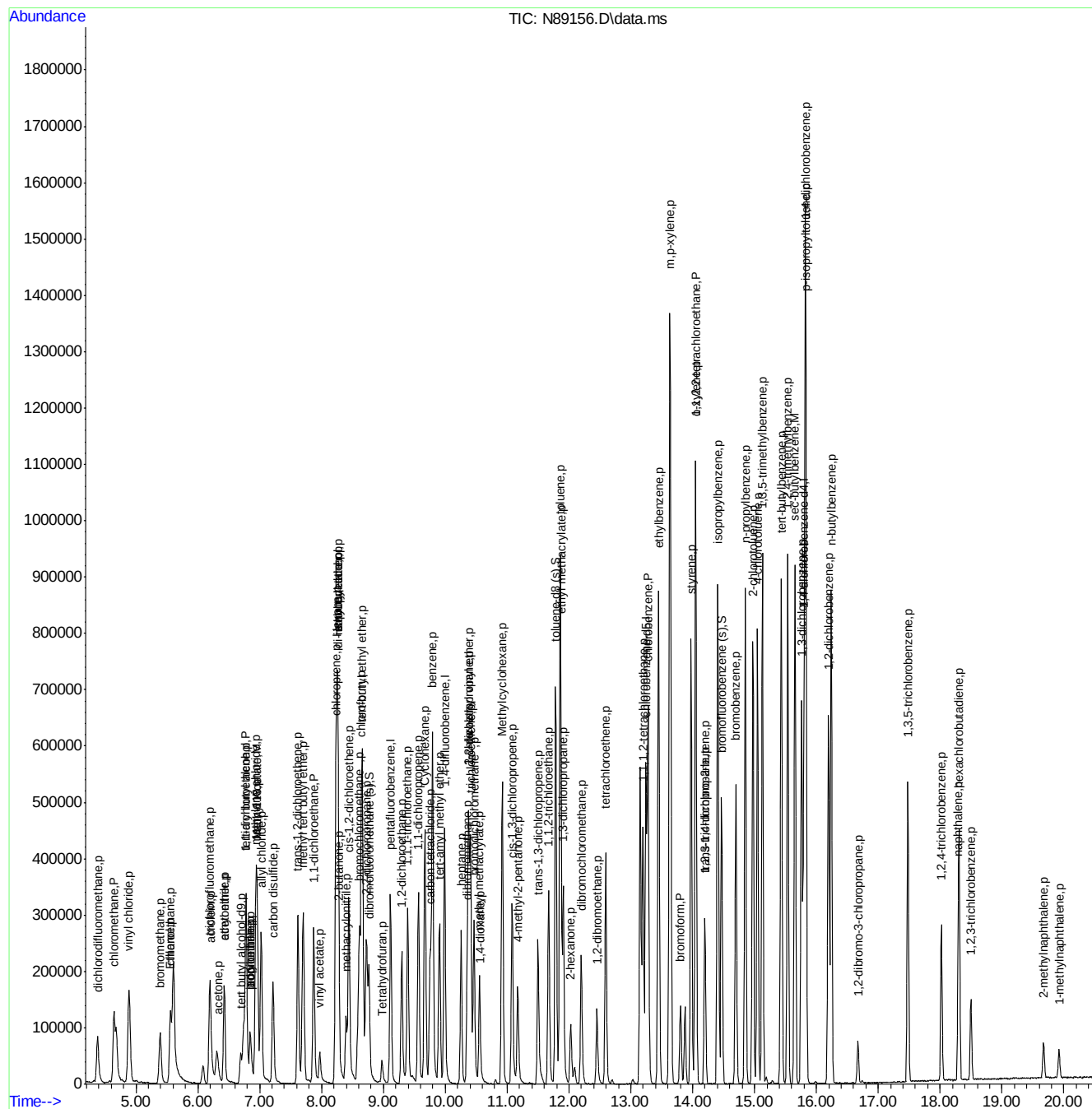
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93)	1,3-dichlorobenzene	15.762	146	284893	49.38	ug/L	100
94)	p-isopropyltoluene	15.825	119	537333	48.64	ug/L	100
95)	1,4-dichlorobenzene	15.829	146	259385	48.70	ug/L	100
96)	1,2-dichlorobenzene	16.193	146	274955	52.06	ug/L	100
97)	n-butylbenzene	16.239	91	538497	52.30	ug/L	100
98)	1,2-dibromo-3-chloropr...	16.670	75	21345	52.06	ug/L	100
99)	1,2,4-trichlorobenzene	18.021	180	89550	53.11	ug/L	100
100)	1,3,5-trichlorobenzene	17.480	180	171334	52.65	ug/L	100
101)	hexachlorobutadiene	18.307	225	85298	51.76	ug/L	100
102)	naphthalene	18.293	128	83627	31.72	ug/L	100
103)	1,2,3-trichlorobenzene	18.498	180	48557	40.97	ug/L	100
104)	2-methylnaphthalene	19.672	142	34576	25.52	ug/L #	100
105)	1-methylnaphthalene	19.923	142	29192	26.17	ug/L #	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89156.D
Acq On : 29 Jul 2014 10:43 pm
Operator : krystend
Sample : ICC3306-50
Misc : ms32328,MSN3306,,,5,1
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jul 30 09:33:12 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:25:21 2014
Response via : Initial Calibration



n140729w.m Wed Jul 30 12:19:07 2014

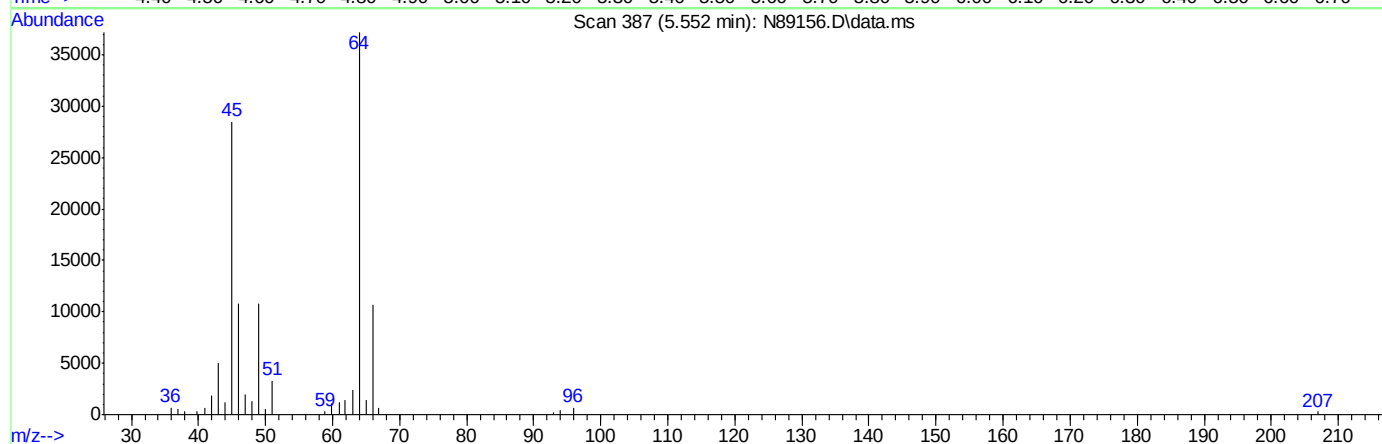
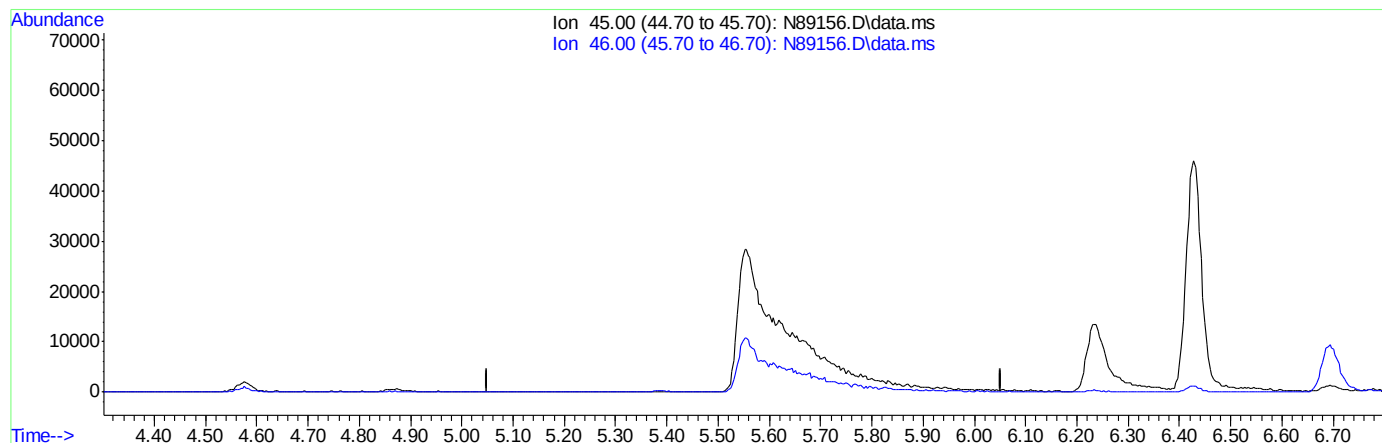
Page: 4

7.6.7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89156.D
Acq On : 29 Jul 2014 10:43 pm
Operator : krystend
Sample : ICC3306-50
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jul 30 09:25:34 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:25:21 2014
Response via : Initial Calibration



(3) Ethanol (p)

5.552min (-5.552) 0.00ug/L

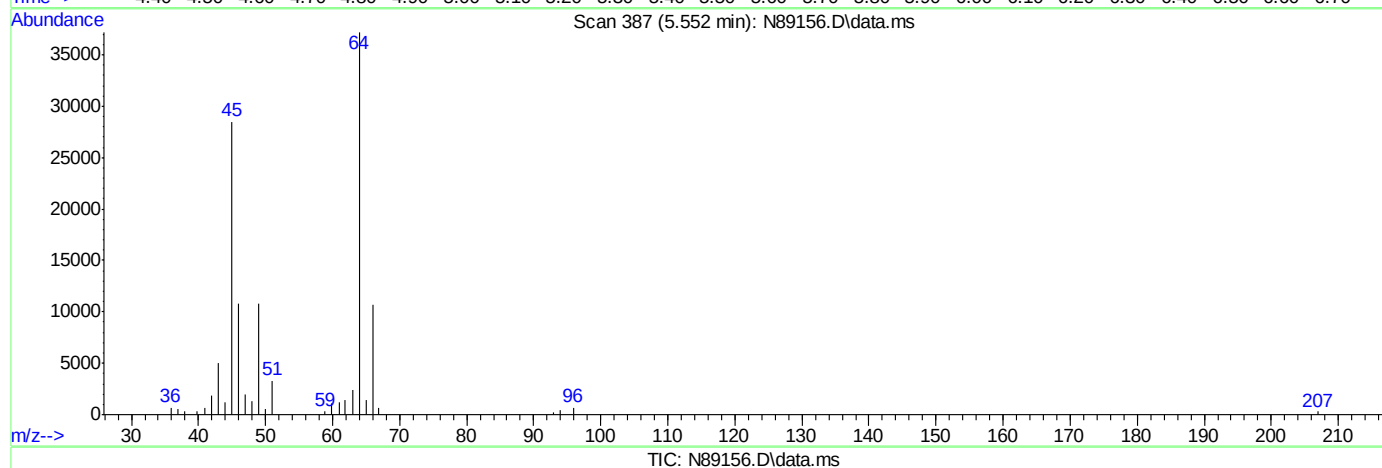
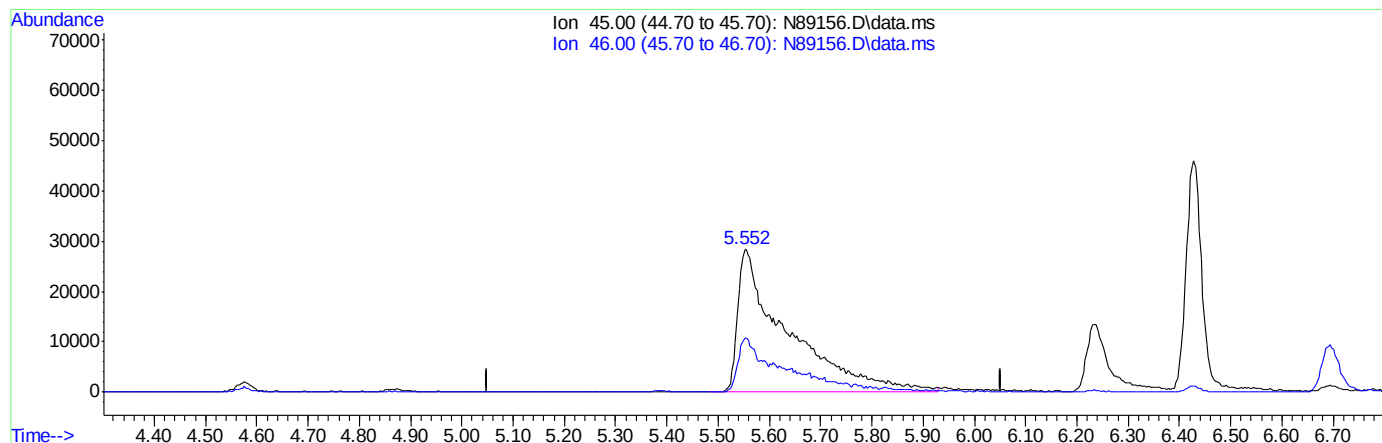
response 0

Ion	Exp%	Act%
45.00	100	0.00
46.00	36.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89156.D
Acq On : 29 Jul 2014 10:43 pm
Operator : krystend
Sample : ICC3306-50
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jul 30 09:25:34 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:25:21 2014
Response via : Initial Calibration



(3) Ethanol (p)

5.552min (0.000) 5019.86ug/L m

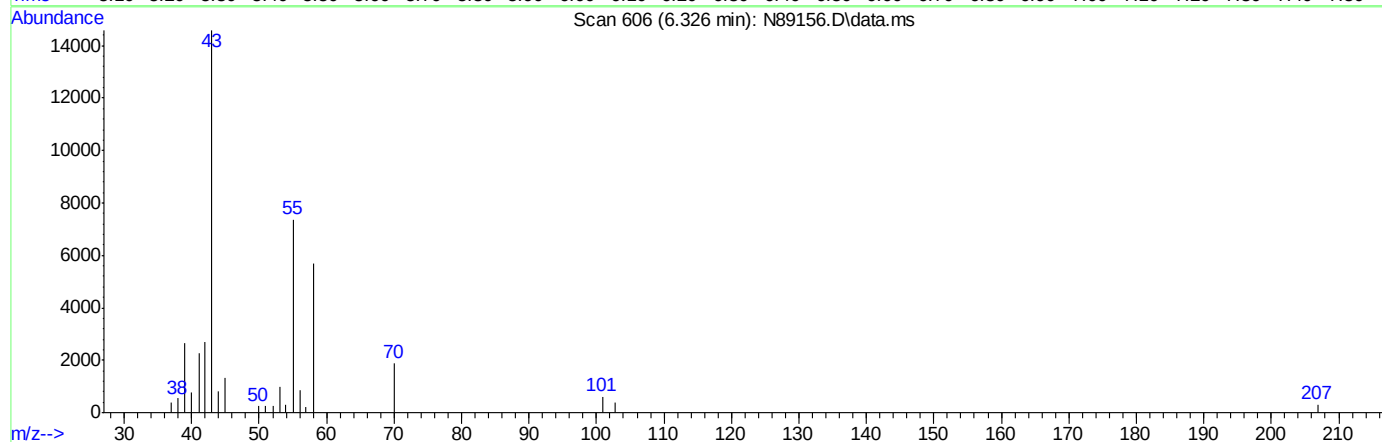
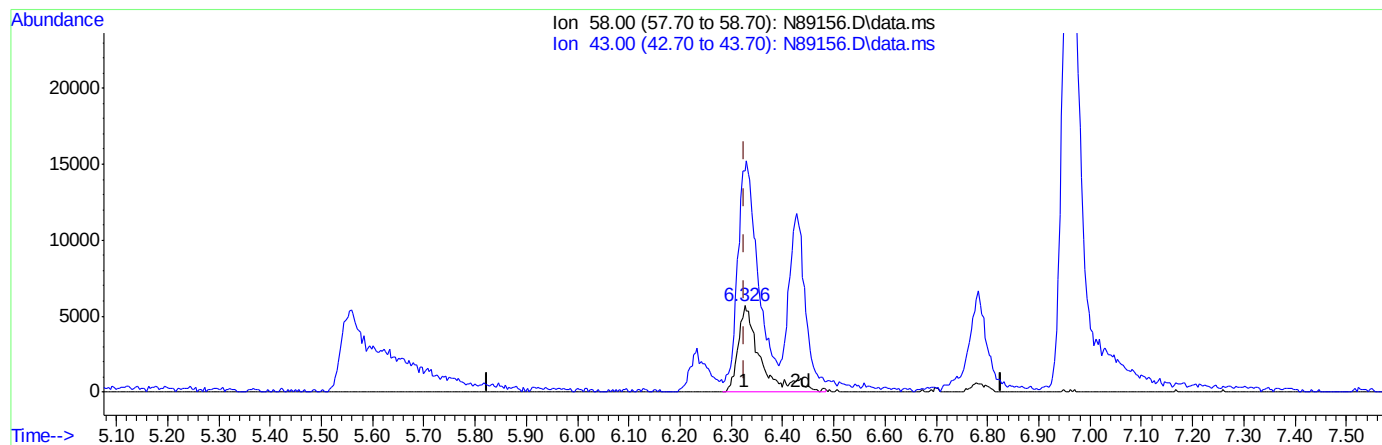
response 191308

Ion	Exp%	Act%
45.00	100	100
46.00	36.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89156.D
Acq On : 29 Jul 2014 10:43 pm
Operator : krystend
Sample : ICC3306-50
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Jul 30 09:25:44 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:25:21 2014
Response via : Initial Calibration



TIC: N89156.D\data.ms

(16) acetone (p)

6.326min (0.000) 48.74ug/L m

response 17189

Ion	Exp%	Act%
58.00	100	100
43.00	245.80	256.13
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140729\
 Data File : N89157.D
 Acq On : 29 Jul 2014 11:10 pm
 Operator : krystend
 Sample : IC3306-100
 Misc : ms32328,MSN3306,,,,5,1
 ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jul 30 09:33:28 2014
 Quant Method : C:\msdchem\1\methods\n140729w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Wed Jul 30 09:20:36 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.690	65	77690	500.00	ug/L	0.00
4) pentafluorobenzene	9.115	168	266669	50.00	ug/L	0.00
43) 1,4-difluorobenzene	9.988	114	408850	50.00	ug/L	0.00
66) chlorobenzene-d5	13.244	82	214299	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.797	152	174201	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.768	113	255459	82.20	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	164.40%#		
60) toluene-d8 (s)	11.784	98	991121	82.21	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	164.42%#		
82) bromofluorobenzene (s)	14.467	95	423995	78.19	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	156.38%#		
Target Compounds						
					Qvalue	
2) tertiary butyl alcohol	6.775	59	265222	964.18	ug/L	# 100
3) Ethanol	5.548	45	339930m	8502.98	ug/L	
5) dichlorodifluoromethane	4.381	85	210976	70.87	ug/L	99
6) chloromethane	4.643	50	379482	85.32	ug/L	97
7) vinyl chloride	4.883	62	225888	69.95	ug/L	99
8) bromomethane	5.392	96	181275	96.99	ug/L	97
9) chloroethane	5.555	64	204777	83.68	ug/L	99
10) ethyl ether	6.421	59	265409	85.03	ug/L	96
11) acetonitrile	6.425	41	35743	78.71	ug/L	97
12) trichlorofluoromethane	6.198	101	286691	77.83	ug/L	98
13) freon-113	6.962	101	155060m	82.59	ug/L	
14) acrolein	6.195	56	83676	598.01	ug/L	100
15) 1,1-dichloroethene	6.782	96	184585	69.11	ug/L	98
16) acetone	6.322	58	30545m	66.61	ug/L	
17) Methyl Acetate	6.955	43	202838m	82.51	ug/L	
18) methylene chloride	6.937	84	251197	80.79	ug/L	98
19) methyl tert butyl ether	7.701	73	649502	105.51	ug/L	98
20) acrylonitrile	6.838	53	97991	86.59	ug/L	99
21) allyl chloride	7.026	41	429956	91.48	ug/L	98
22) trans-1,2-dichloroethene	7.616	96	245608	92.37	ug/L	95
23) iodomethane	6.852	142	147259	88.41	ug/L	100
24) carbon disulfide	7.216	76	554837	86.68	ug/L	100
25) propionitrile	6.842	54	3462	70.13	ug/L	100
26) vinyl acetate	7.966	43	247926	150.61	ug/L	98
27) chloroprene	8.231	53	508549	86.59	ug/L	99
28) di-isopropyl ether	8.259	45	1140312	84.09	ug/L	97
29) methacrylonitrile	8.394	41	153392	82.46	ug/L	95
30) 2-butanone	8.281	72	23297	102.75	ug/L	# 66
31) Hexane	8.252	41	336920	81.44	ug/L	# 81
32) 1,1-dichloroethane	7.874	63	619446	101.00	ug/L	100
33) tert-butyl ethyl ether	8.655	59	887533	151.45	ug/L	99
34) isobutyl alcohol	8.259	43	754940	404.64	ug/L	98
35) 2,2-dichloropropane	8.730	77	341387	202.84	ug/L	99
36) cis-1,2-dichloroethene	8.440	96	288513	91.49	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140729\
 Data File : N89157.D
 Acq On : 29 Jul 2014 11:10 pm
 Operator : krystend
 Sample : IC3306-100
 Misc : ms32328,MSN3306,,,,5,1
 ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jul 30 09:33:28 2014
 Quant Method : C:\msdchem\1\methods\n140729w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Wed Jul 30 09:20:36 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) ethyl acetate	8.259	43	754940	80.93	ug/L	100
38) bromochloromethane	8.609	128	125036	89.39	ug/L	98
39) chloroform	8.645	83	493226	90.52	ug/L	99
41) Tetrahydrofuran	8.977	42	74090	88.75	ug/L	98
42) 1,1,1-trichloroethane	9.394	97	412292	154.39	ug/L	99
44) Cyclohexane	9.674	56	485144	88.98	ug/L	99
45) carbon tetrachloride	9.758	117	290795	113.62	ug/L	98
46) 1,1-dichloropropene	9.567	75	338170	91.01	ug/L	99
47) benzene	9.794	78	1070245	89.53	ug/L	98
48) 1,2-dichloroethane	9.295	62	458287	95.75	ug/L	99
49) tert-amyl methyl ether	9.903	73	564621	110.34	ug/L	98
50) heptane	10.257	43	267374	95.48	ug/L	98
51) trichloroethene	10.409	95	319752	86.08	ug/L	98
52) 1,2-dichloropropane	10.377	63	383170	97.96	ug/L	100
53) dibromomethane	10.356	93	163648	96.10	ug/L	99
54) bromodichloromethane	10.465	83	427116	106.20	ug/L	99
55) Methylcyclohexane	10.921	83	380953	94.83	ug/L	99
56) 2-chloroethyl vinyl ether	10.377	63	383170	91.23	ug/L #	98
57) methyl methacrylate	10.550	69	153488	101.97	ug/L	97
58) 1,4-dioxane	10.561	88	12091	562.19	ug/L	78
59) cis-1,3-dichloropropene	11.077	75	461613	135.94	ug/L	100
61) 4-methyl-2-pentanone	11.169	43	289114	86.72	ug/L	100
62) toluene	11.858	92	667326	89.37	ug/L	98
63) trans-1,3-dichloropropene	11.498	75	381595	137.35	ug/L	100
64) 1,1,2-trichloroethane	11.671	83	210148	94.58	ug/L	97
65) ethyl methacrylate	11.865	69	277225	101.95	ug/L	97
67) tetrachloroethene	12.594	166	247541	94.38	ug/L	98
68) 1,3-dichloropropane	11.908	76	419341	93.01	ug/L	99
69) dibromochloromethane	12.198	129	286350	116.52	ug/L	100
70) 1,2-dibromoethane	12.452	107	227639	97.05	ug/L	96
71) 2-hexanone	12.021	43	196519	97.87	ug/L	98
72) chlorobenzene	13.280	112	719922	91.13	ug/L	99
73) 1,1,1,2-tetrachloroethane	13.195	131	271157	99.35	ug/L	98
74) ethylbenzene	13.449	91	1363959	91.26	ug/L	99
75) m,p-xylene	13.633	106	919851	171.67	ug/L	97
76) o-xylene	14.047	106	486370	88.64	ug/L	97
77) styrene	13.976	104	799654	91.26	ug/L	100
78) bromoform	13.803	173	169132	122.17	ug/L	99
79) trans-1,4-dichloro-2-b...	14.195	53	47236	228.57	ug/L #	53
81) isopropylbenzene	14.404	105	1263449	83.98	ug/L	99
83) bromobenzene	14.701	156	299179	85.16	ug/L	99
84) 1,1,2,2-tetrachloroethane	14.050	83	270540	75.21	ug/L	96
85) 1,2,3-trichloropropane	14.195	75	285941	97.22	ug/L	98
86) n-propylbenzene	14.849	91	1560709	85.21	ug/L	100
87) 2-chlorotoluene	14.973	91	1025966	83.79	ug/L	98
88) 4-chlorotoluene	15.047	91	1061943	86.85	ug/L	99
89) 1,3,5-trimethylbenzene	15.129	105	1144261	84.08	ug/L	98
90) tert-butylbenzene	15.433	91	727464	86.24	ug/L	98
91) 1,2,4-trimethylbenzene	15.539	105	1119665	87.11	ug/L	99
92) sec-butylbenzene	15.652	105	1448354	88.40	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89157.D
Acq On : 29 Jul 2014 11:10 pm
Operator : krystend
Sample : IC3306-100
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jul 30 09:33:28 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:20:36 2014
Response via : Initial Calibration

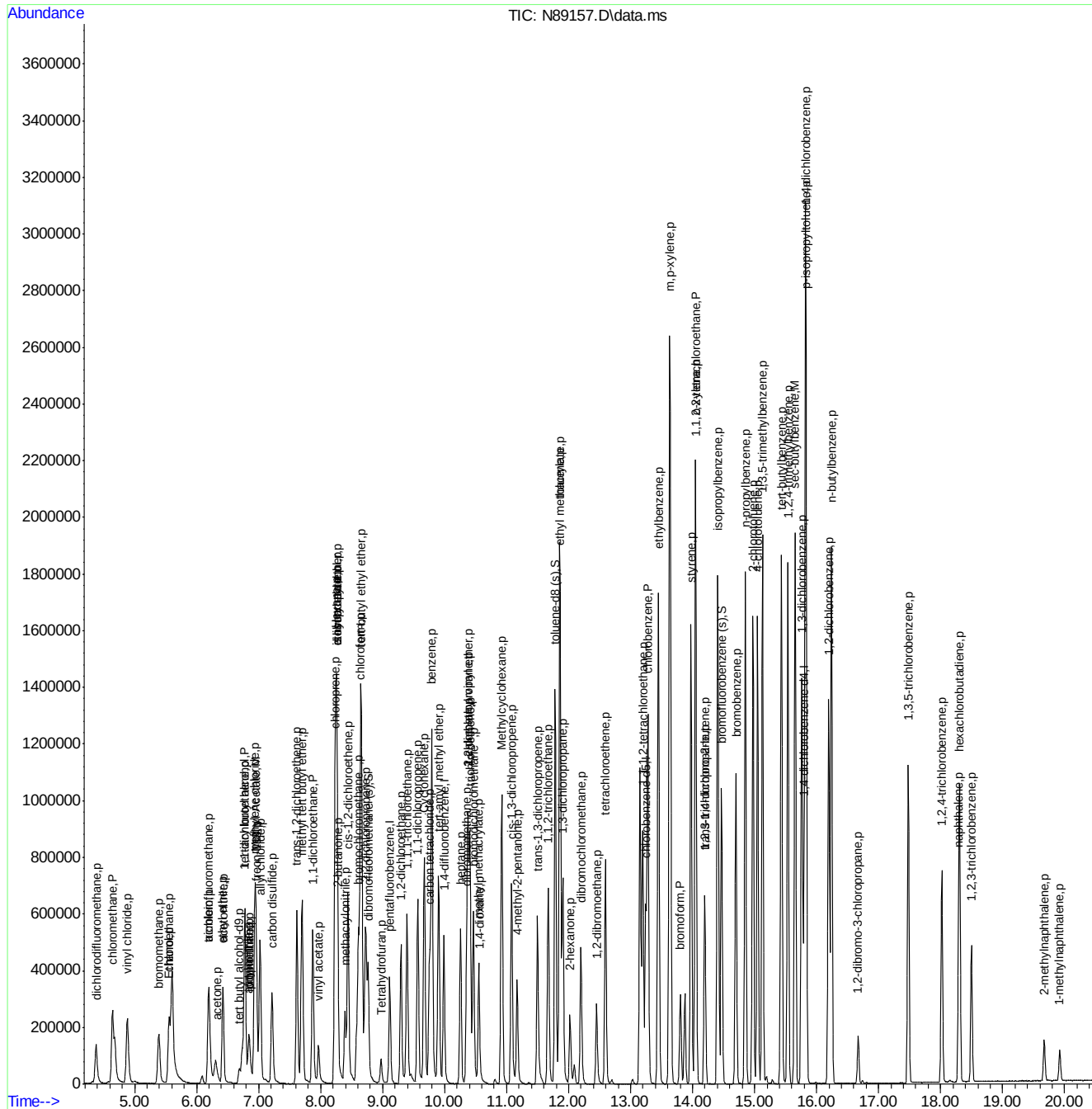
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,3-dichlorobenzene	15.761	146	592553	90.74	ug/L	98
94) p-isopropyltoluene	15.821	119	1134428	87.63	ug/L	98
95) 1,4-dichlorobenzene	15.828	146	532768	85.24	ug/L	99
96) 1,2-dichlorobenzene	16.196	146	570794	96.95	ug/L	98
97) n-butylbenzene	16.239	91	1170406	109.01	ug/L	98
98) 1,2-dibromo-3-chloropr...	16.666	75	47775	127.03	ug/L	86
99) 1,2,4-trichlorobenzene	18.020	180	247179	234.60	ug/L	97
100) 1,3,5-trichlorobenzene	17.479	180	374170	110.56	ug/L	99
101) hexachlorobutadiene	18.307	225	185381	111.59	ug/L	99
102) naphthalene	18.289	128	287797	154.22	ug/L	100
103) 1,2,3-trichlorobenzene	18.498	180	162722	256.18	ug/L	98
104) 2-methylnaphthalene	19.671	142	79984	58.39	ug/L #	100
105) 1-methylnaphthalene	19.919	142	60841	50.42	ug/L #	100

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

(QT Reviewed)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89157.D
Acq On : 29 Jul 2014 11:10 pm
Operator : krystend
Sample : IC3306-100
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jul 30 09:33:28 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:20:36 2014
Response via : Initial Calibration



n140729w.m Wed Jul 30 12:19:11 2014

Page: 4

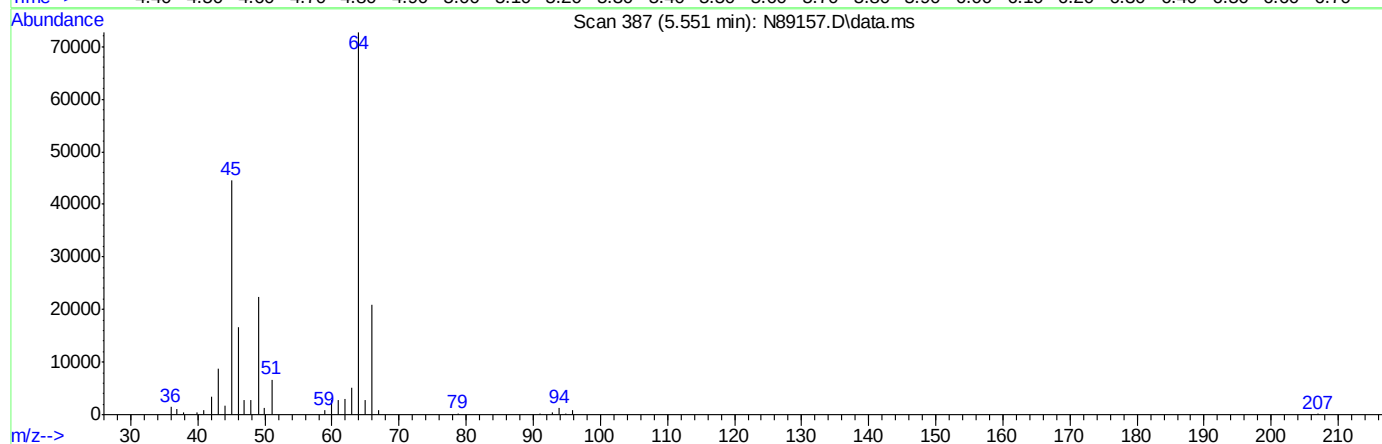
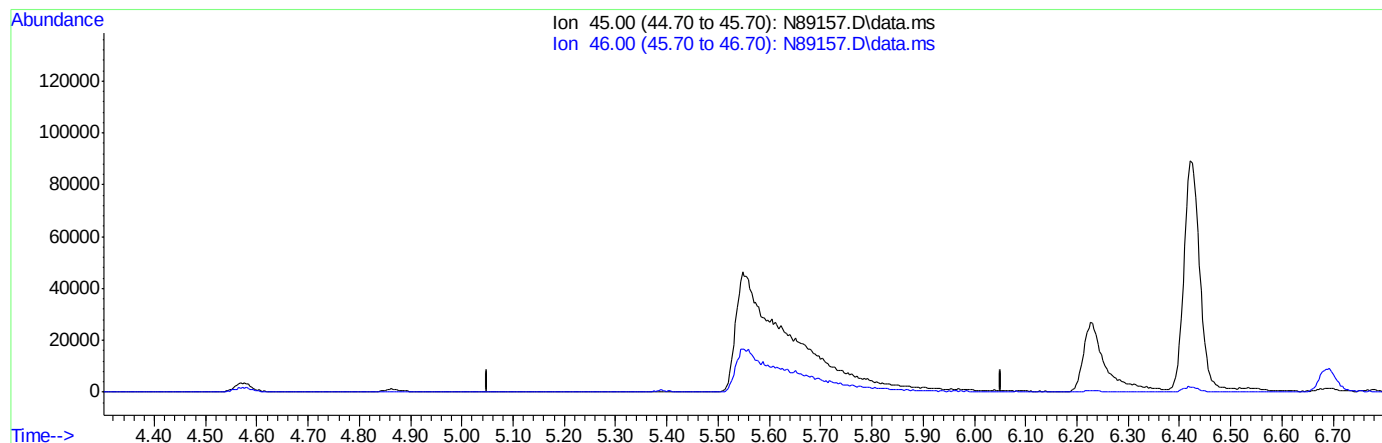
7.6.8



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89157.D
Acq On : 29 Jul 2014 11:10 pm
Operator : krystend
Sample : IC3306-100
Misc : ms32328,MSN3306,,,,,5,1
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jul 30 09:20:50 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:20:36 2014
Response via : Initial Calibration



(3) Ethanol (p)

5.552min (-5.552) 0.00ug/L

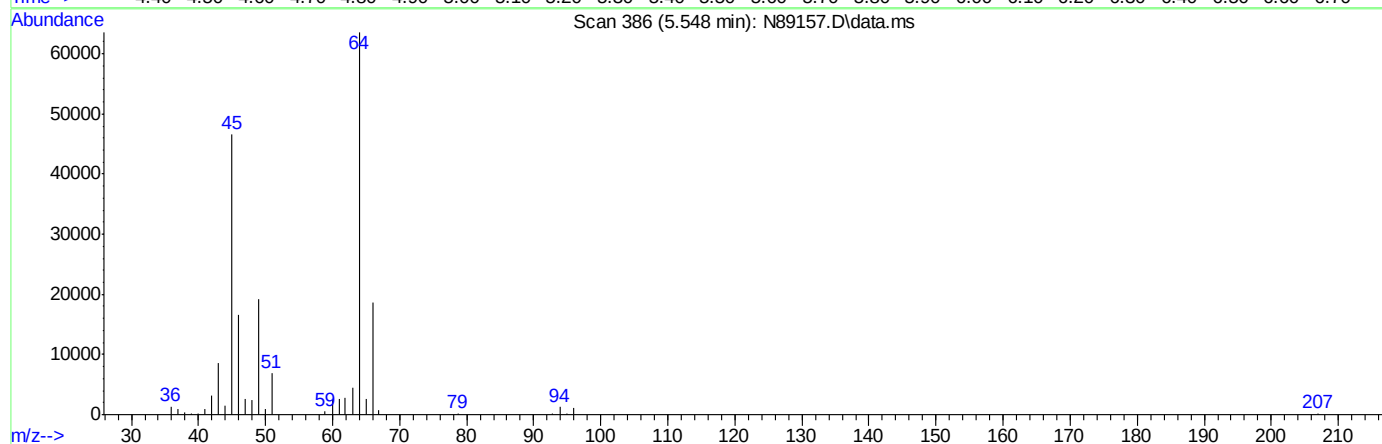
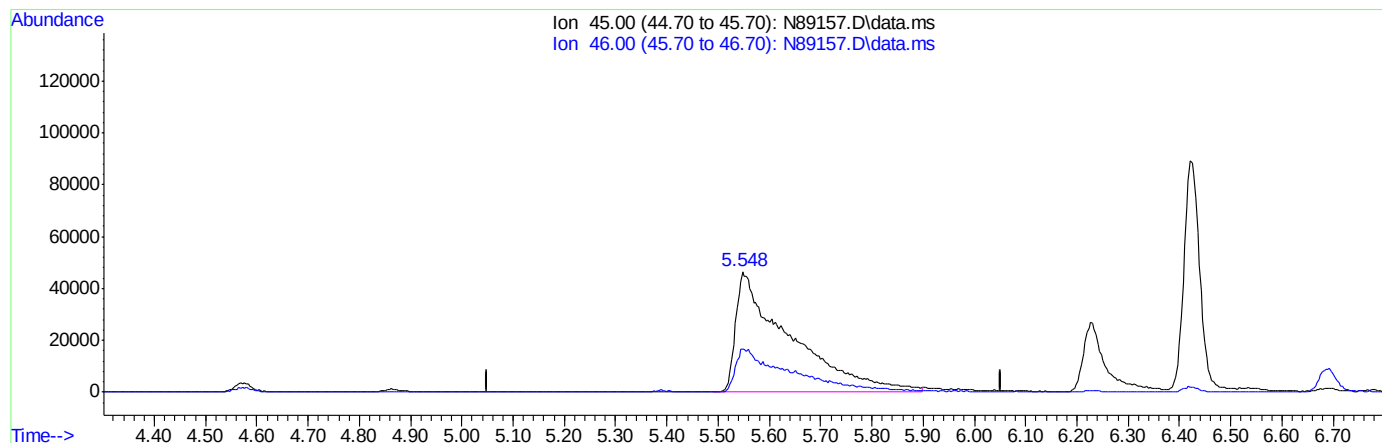
response 0

Ion	Exp%	Act%
45.00	100	0.00
46.00	36.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89157.D
Acq On : 29 Jul 2014 11:10 pm
Operator : krystend
Sample : IC3306-100
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jul 30 09:20:50 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:20:36 2014
Response via : Initial Calibration



(3) Ethanol (p)

5.548min (-0.004) 8502.98ug/L m

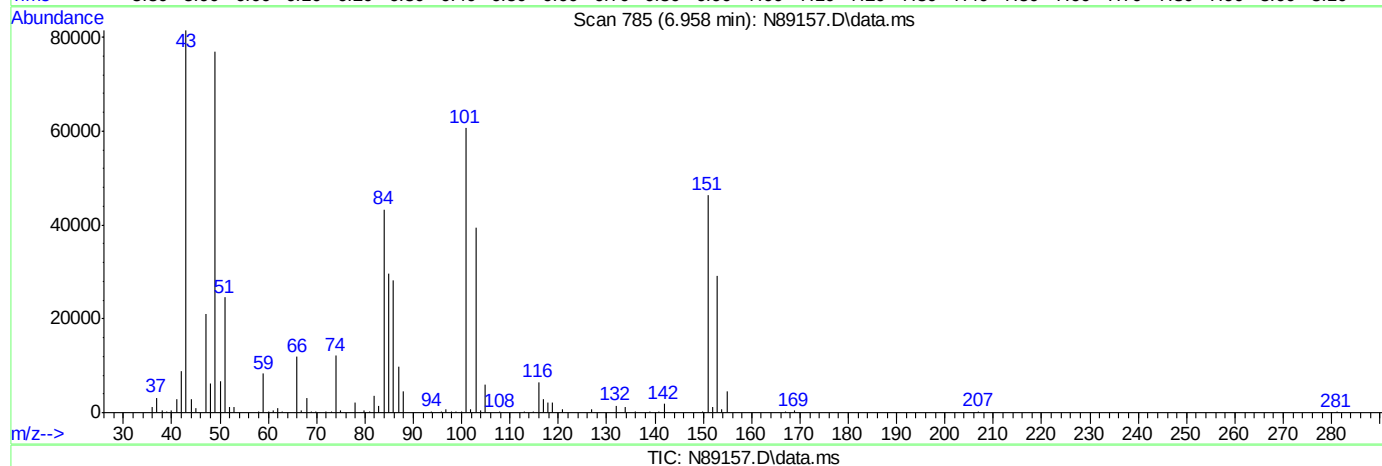
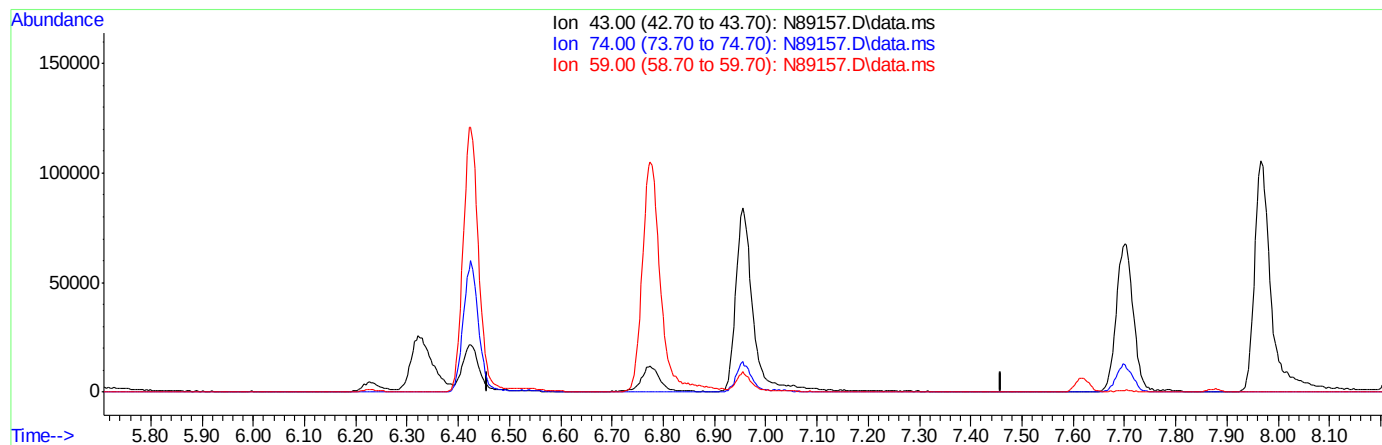
response 339930

Ion	Exp%	Act%
45.00	100	100
46.00	36.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89157.D
Acq On : 29 Jul 2014 11:10 pm
Operator : krystend
Sample : IC3306-100
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jul 30 09:20:50 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:20:36 2014
Response via : Initial Calibration



(17) Methyl Acetate (M)

6.959min (-6.959) 0.00ug/L

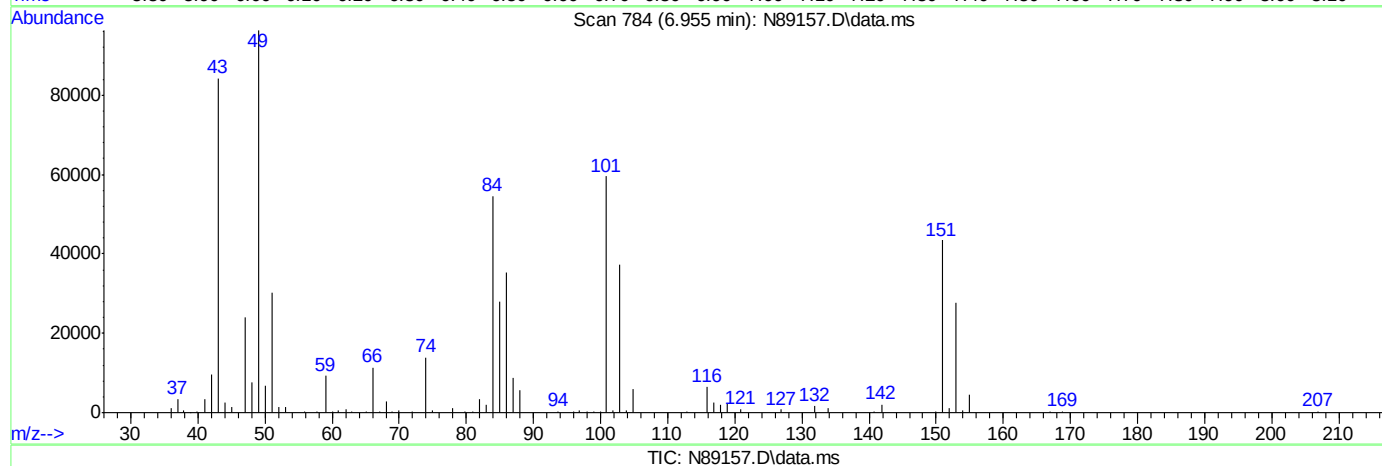
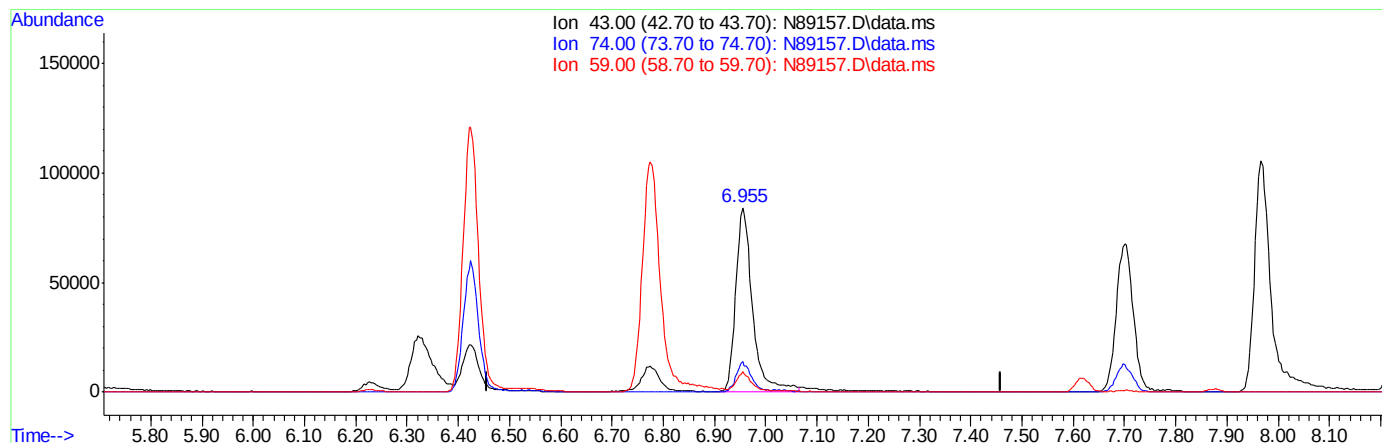
response 0

Ion	Exp%	Act%
43.00	100	0.00
74.00	15.10	0.00#
59.00	10.70	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89157.D
Acq On : 29 Jul 2014 11:10 pm
Operator : krystend
Sample : IC3306-100
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jul 30 09:20:50 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:20:36 2014
Response via : Initial Calibration



(17) Methyl Acetate (M)

6.955min (-0.004) 78.32ug/L m

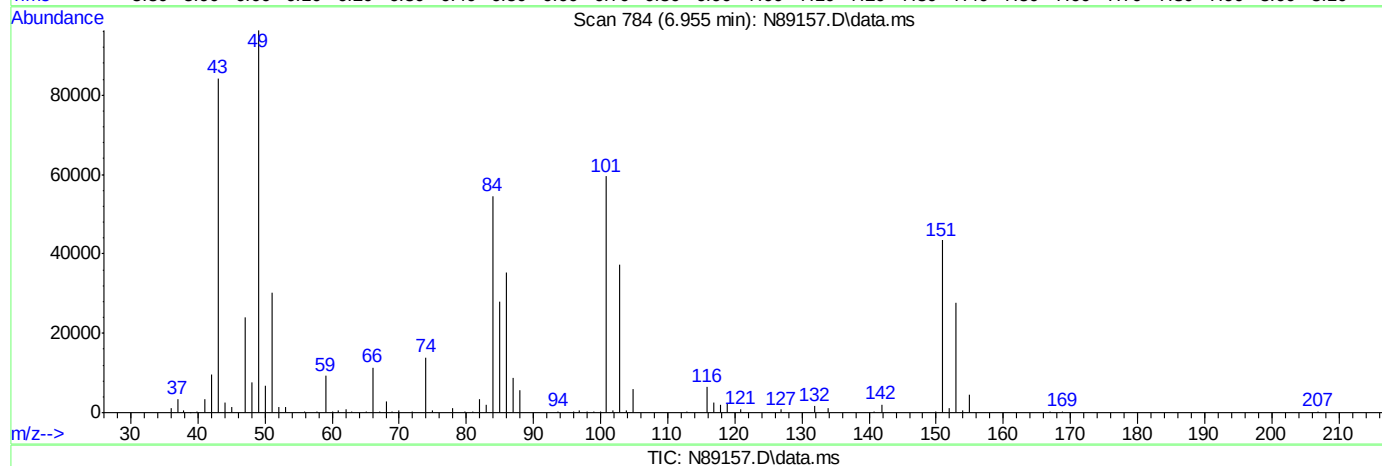
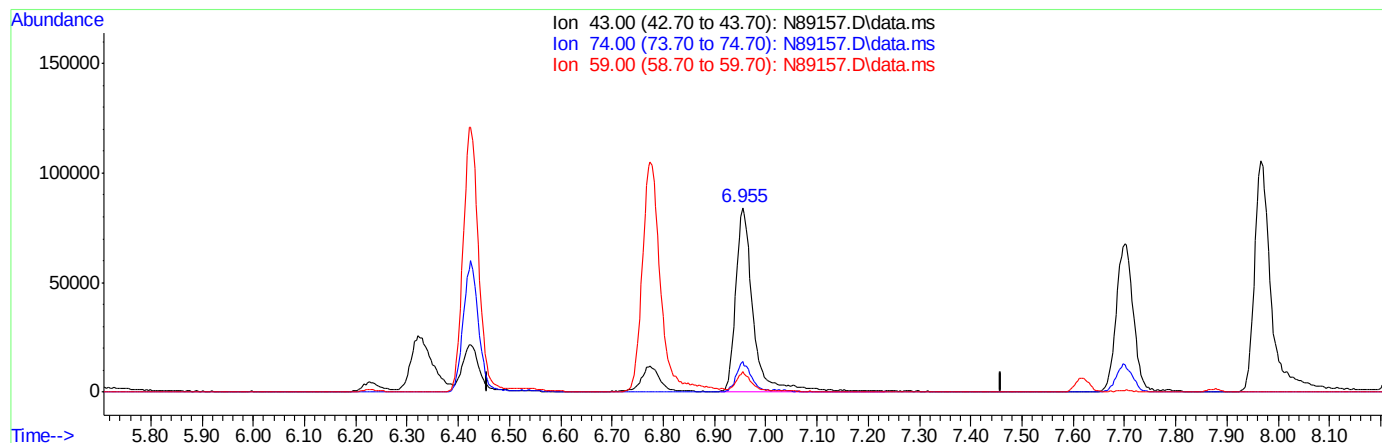
response 192544

Ion	Exp%	Act%
43.00	100	100
74.00	15.10	16.50
59.00	10.70	10.94
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89157.D
Acq On : 29 Jul 2014 11:10 pm
Operator : krystend
Sample : IC3306-100
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jul 30 09:20:50 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:20:36 2014
Response via : Initial Calibration



(17) Methyl Acetate (M)

6.955min (-0.004) 82.51ug/L m

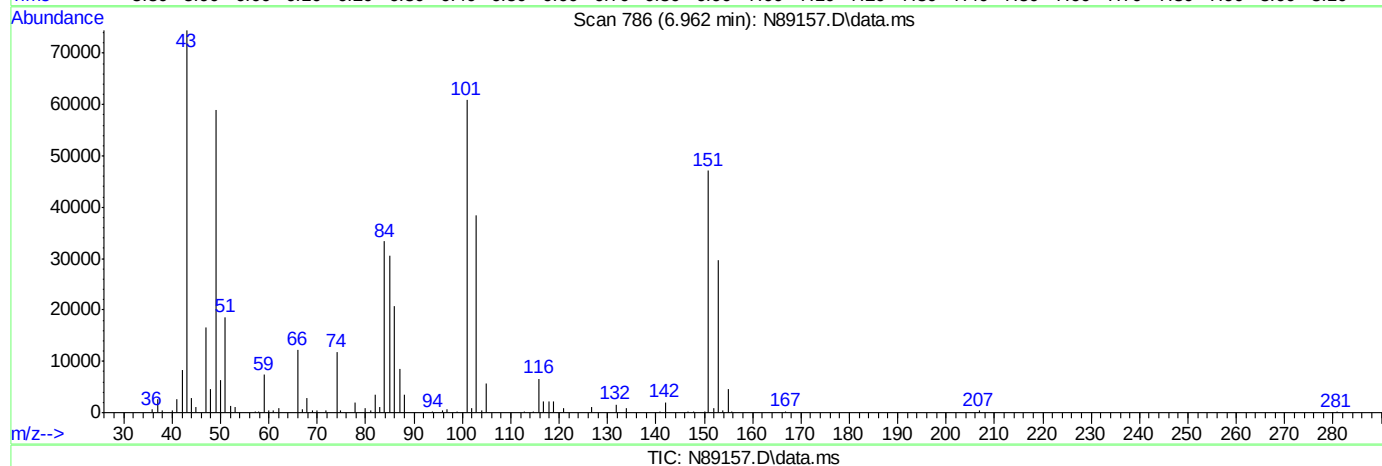
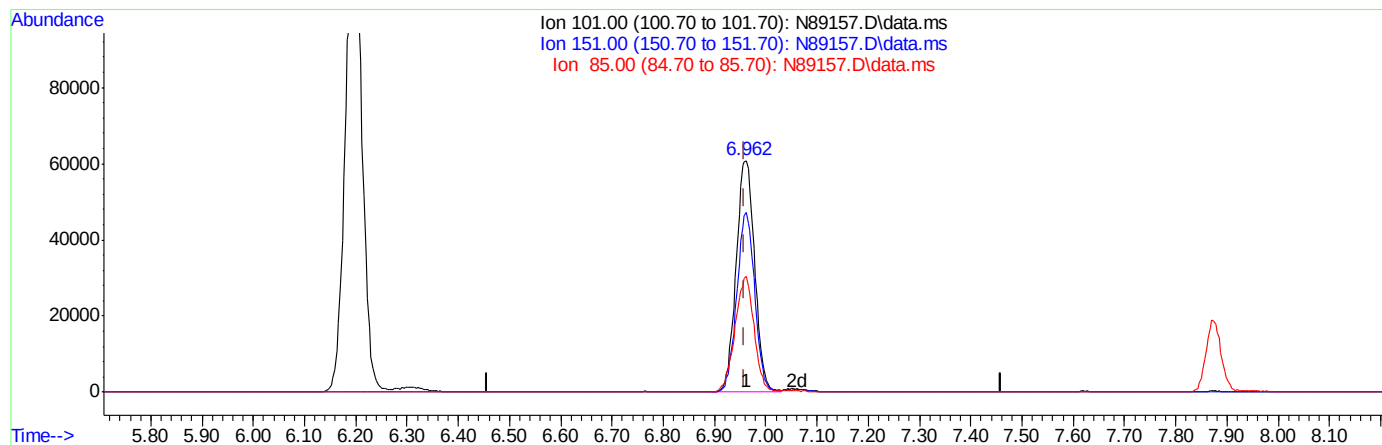
response 202838

Ion	Exp%	Act%
43.00	100	100
74.00	15.10	16.50
59.00	10.70	10.94
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89157.D
Acq On : 29 Jul 2014 11:10 pm
Operator : krystend
Sample : IC3306-100
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jul 30 09:21:18 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:20:36 2014
Response via : Initial Calibration



(13) freon-113 (p)

6.962min (+0.003) 81.04ug/L

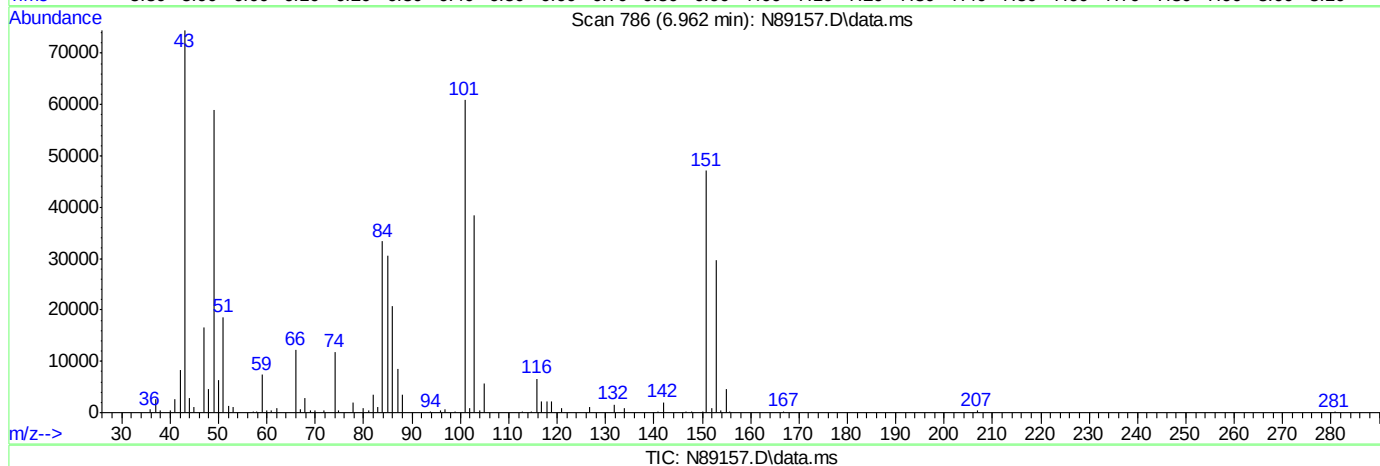
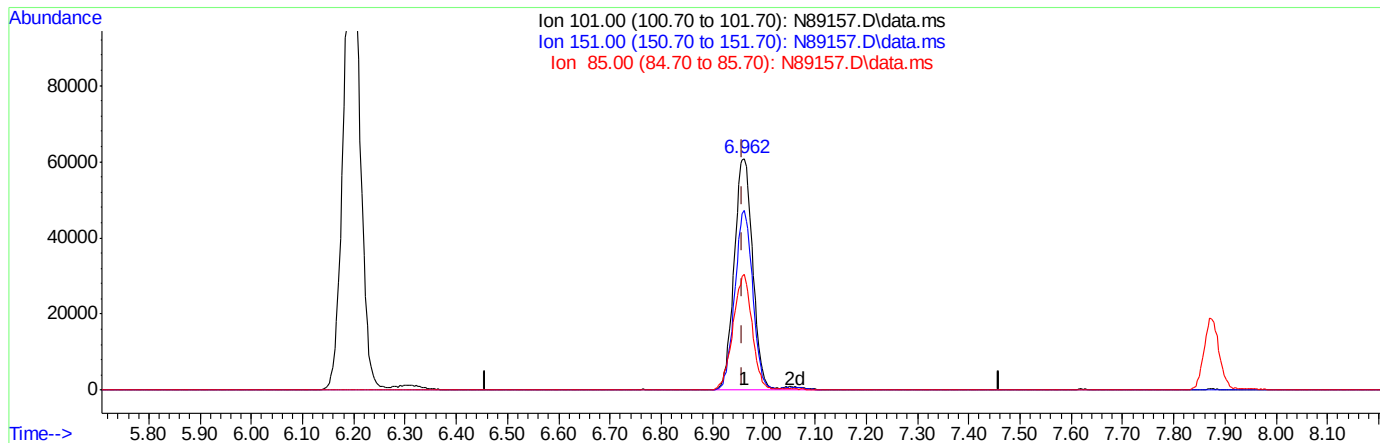
response 152159

Ion	Exp%	Act%
101.00	100	100
151.00	73.30	77.45
85.00	45.30	50.11
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89157.D
Acq On : 29 Jul 2014 11:10 pm
Operator : krystend
Sample : IC3306-100
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jul 30 09:21:18 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:20:36 2014
Response via : Initial Calibration



(13) freon-113 (p)

6.962min (+0.003) 82.59ug/L m

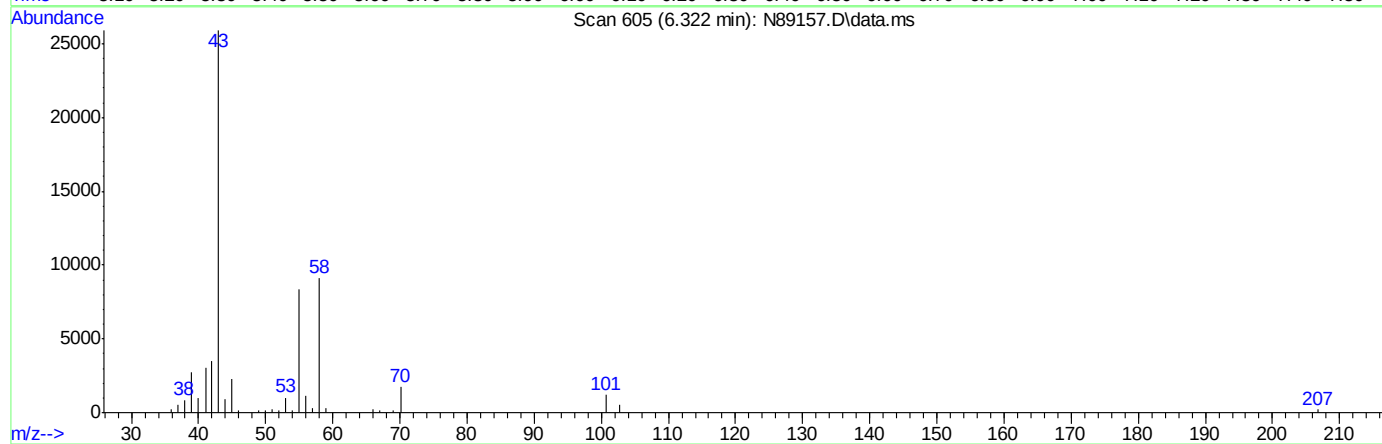
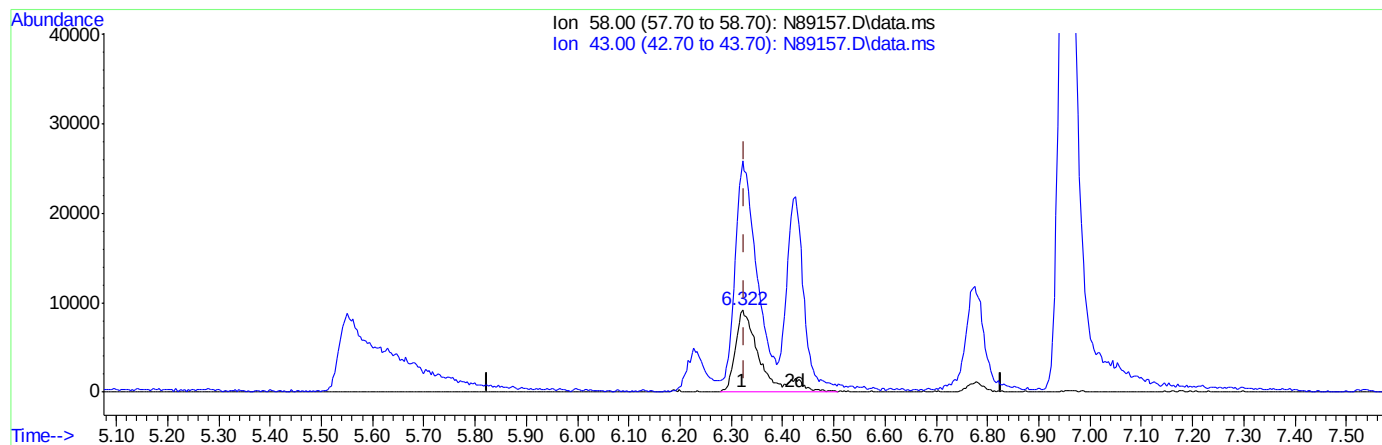
response 155060

Ion	Exp%	Act%
101.00	100	100
151.00	73.30	77.45
85.00	45.30	50.11
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89157.D
Acq On : 29 Jul 2014 11:10 pm
Operator : krystend
Sample : IC3306-100
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Jul 30 09:28:18 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:20:36 2014
Response via : Initial Calibration



TIC: N89157.D\data.ms

(16) acetone (p)

6.322min (-0.004) 66.61ug/L m

response 30545

Ion	Exp%	Act%
58.00	100	100
43.00	245.80	283.14#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89158.D
Acq On : 29 Jul 2014 11:37 pm
Operator : krystend
Sample : IC3306-200
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Jul 30 11:51:14 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:22:11 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.686	65	76421	500.00	ug/L	0.00
4) pentafluorobenzene	9.115	168	251248	50.00	ug/L	0.00
43) 1,4-difluorobenzene	9.988	114	402285	50.00	ug/L	0.00
66) chlorobenzene-d5	13.244	82	206763	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.800	152	160373	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.768	113	585136	203.36	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	406.72%#		
60) toluene-d8 (s)	11.784	98	2206718	189.30	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	378.60%#		
82) bromofluorobenzene (s)	14.467	95	929018	191.11	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	382.22%#		
Target Compounds						
					Qvalue	
2) tertiary butyl alcohol	6.771	59	568371	2113.16	ug/L	# 100
3) Ethanol	5.555	45	682437m	17797.95	ug/L	
5) dichlorodifluoromethane	4.378	85	716826	268.61	ug/L	94
6) chloromethane	4.639	50	876223	214.35	ug/L	99
7) vinyl chloride	4.876	62	487936	167.57	ug/L	99
8) bromomethane	5.389	96	412524	235.44	ug/L	99
9) chloroethane	5.555	64	459649	204.92	ug/L	100
10) ethyl ether	6.425	59	568205	199.18	ug/L	99
11) acetonitrile	6.428	41	74508	181.89	ug/L	95
12) trichlorofluoromethane	6.198	101	894927	266.31	ug/L	98
13) freon-113	6.962	101	459756m	270.15	ug/L	
14) acrolein	6.191	56	232233	1695.12	ug/L	100
15) 1,1-dichloroethene	6.782	96	468532	194.78	ug/L	97
16) acetone	6.326	58	65727m	165.72	ug/L	
17) Methyl Acetate	6.955	43	391021m	174.94	ug/L	
18) methylene chloride	6.937	84	552258	194.75	ug/L	95
19) methyl tert butyl ether	7.701	73	1505028	257.46	ug/L	98
20) acrylonitrile	6.838	53	231211	222.83	ug/L	95
21) allyl chloride	7.026	41	925175m	212.55	ug/L	
22) trans-1,2-dichloroethene	7.620	96	576960	232.85	ug/L	97
23) iodomethane	6.852	142	338113m	220.56	ug/L	
24) carbon disulfide	7.220	76	1467942	250.07	ug/L	99
25) propionitrile	6.838	54	8630	197.33	ug/L	100
26) vinyl acetate	7.962	43	713818	417.94	ug/L	99
27) chloroprene	8.235	53	1215810	225.78	ug/L	98
28) di-isopropyl ether	8.263	45	2295099	184.52	ug/L	93
29) methacrylonitrile	8.394	41	359896	212.80	ug/L	96
30) 2-butanone	8.277	72	54634	254.36	ug/L	# 33
31) Hexane	8.249	41	784142	208.93	ug/L	# 90
32) 1,1-dichloroethane	7.874	63	1421337	245.61	ug/L	100
33) tert-butyl ethyl ether	8.659	59	2216195	369.69	ug/L	100
34) isobutyl alcohol	8.263	43	1632777	965.71	ug/L	98
35) 2,2-dichloropropane	8.730	77	895627	468.46	ug/L	99
36) cis-1,2-dichloroethene	8.443	96	663226	225.97	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140729\
 Data File : N89158.D
 Acq On : 29 Jul 2014 11:37 pm
 Operator : krystend
 Sample : IC3306-200
 Misc : ms32328,MSN3306,,,,5,1
 ALS Vial : 31 Sample Multiplier: 1

Quant Time: Jul 30 11:51:14 2014
 Quant Method : C:\msdchem\1\methods\n140729w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Wed Jul 30 09:22:11 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) ethyl acetate	8.263	43	1632777	193.14	ug/L	91
38) bromochloromethane	8.609	128	271812	210.71	ug/L	98
39) chloroform	8.645	83	1096854	216.60	ug/L	97
41) Tetrahydrofuran	8.974	42	170044	221.17	ug/L	96
42) 1,1,1-trichloroethane	9.394	97	1030492	380.05	ug/L	99
44) Cyclohexane	9.674	56	1377159	262.50	ug/L	98
45) carbon tetrachloride	9.758	117	789684	307.59	ug/L	99
46) 1,1-dichloropropene	9.567	75	857832	238.92	ug/L	98
47) benzene	9.794	78	2371131	204.27	ug/L	99
48) 1,2-dichloroethane	9.299	62	1044058	223.05	ug/L	100
49) tert-amyl methyl ether	9.903	73	1433657	279.93	ug/L	99
50) heptane	10.257	43	674770	247.13	ug/L	98
51) trichloroethene	10.409	95	709803	197.64	ug/L	98
52) 1,2-dichloropropane	10.381	63	811115	211.46	ug/L	100
53) dibromomethane	10.356	93	369525	221.99	ug/L	98
54) bromodichloromethane	10.465	83	967091	242.25	ug/L	100
55) Methylcyclohexane	10.921	83	999328	255.46	ug/L	99
56) 2-chloroethyl vinyl ether	10.381	63	811115	199.78	ug/L #	98
57) methyl methacrylate	10.550	69	350845	235.96	ug/L	95
58) 1,4-dioxane	10.557	88	27168	1252.67	ug/L	72
59) cis-1,3-dichloropropene	11.081	75	1050261	300.82	ug/L	99
61) 4-methyl-2-pentanone	11.169	43	644252	201.76	ug/L	99
62) toluene	11.858	92	1444804	199.68	ug/L	98
63) trans-1,3-dichloropropene	11.498	75	912027	318.75	ug/L	99
64) 1,1,2-trichloroethane	11.671	83	455109	209.80	ug/L	97
65) ethyl methacrylate	11.865	69	622196	231.64	ug/L	92
67) tetrachloroethene	12.594	166	576357	229.36	ug/L	99
68) 1,3-dichloropropane	11.908	76	924646	215.57	ug/L	100
69) dibromochloromethane	12.198	129	650596	268.83	ug/L	99
70) 1,2-dibromoethane	12.452	107	513394	227.97	ug/L	96
71) 2-hexanone	12.021	43	451537	234.06	ug/L	98
72) chlorobenzene	13.280	112	1575551	209.36	ug/L	98
73) 1,1,1,2-tetrachloroethane	13.195	131	595753	226.45	ug/L	99
74) ethylbenzene	13.449	91	3036149	213.21	ug/L	100
75) m,p-xylene	13.633	106	1952418	384.46	ug/L	96
76) o-xylene	14.050	106	1015212	194.52	ug/L	96
77) styrene	13.972	104	1727056	207.92	ug/L	96
78) bromoform	13.803	173	398970	289.52	ug/L	99
79) trans-1,4-dichloro-2-b...	14.192	53	139481	556.45	ug/L #	12
81) isopropylbenzene	14.407	105	2798813	208.76	ug/L	98
83) bromobenzene	14.701	156	637368	203.10	ug/L	94
84) 1,1,2,2-tetrachloroethane	14.050	83	556566	173.44	ug/L	97
85) 1,2,3-trichloropropane	14.195	75	665335	247.09	ug/L	97
86) n-propylbenzene	14.849	91	3415152	208.70	ug/L	100
87) 2-chlorotoluene	14.973	91	2225995	204.09	ug/L	98
88) 4-chlorotoluene	15.047	91	2302350	210.06	ug/L	97
89) 1,3,5-trimethylbenzene	15.129	105	2449343	200.04	ug/L	96
90) tert-butylbenzene	15.433	91	1590002	210.53	ug/L	95
91) 1,2,4-trimethylbenzene	15.539	105	2390530	205.82	ug/L	99
92) sec-butylbenzene	15.655	105	3094466	210.03	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89158.D
Acq On : 29 Jul 2014 11:37 pm
Operator : krystend
Sample : IC3306-200
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Jul 30 11:51:14 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:22:11 2014
Response via : Initial Calibration

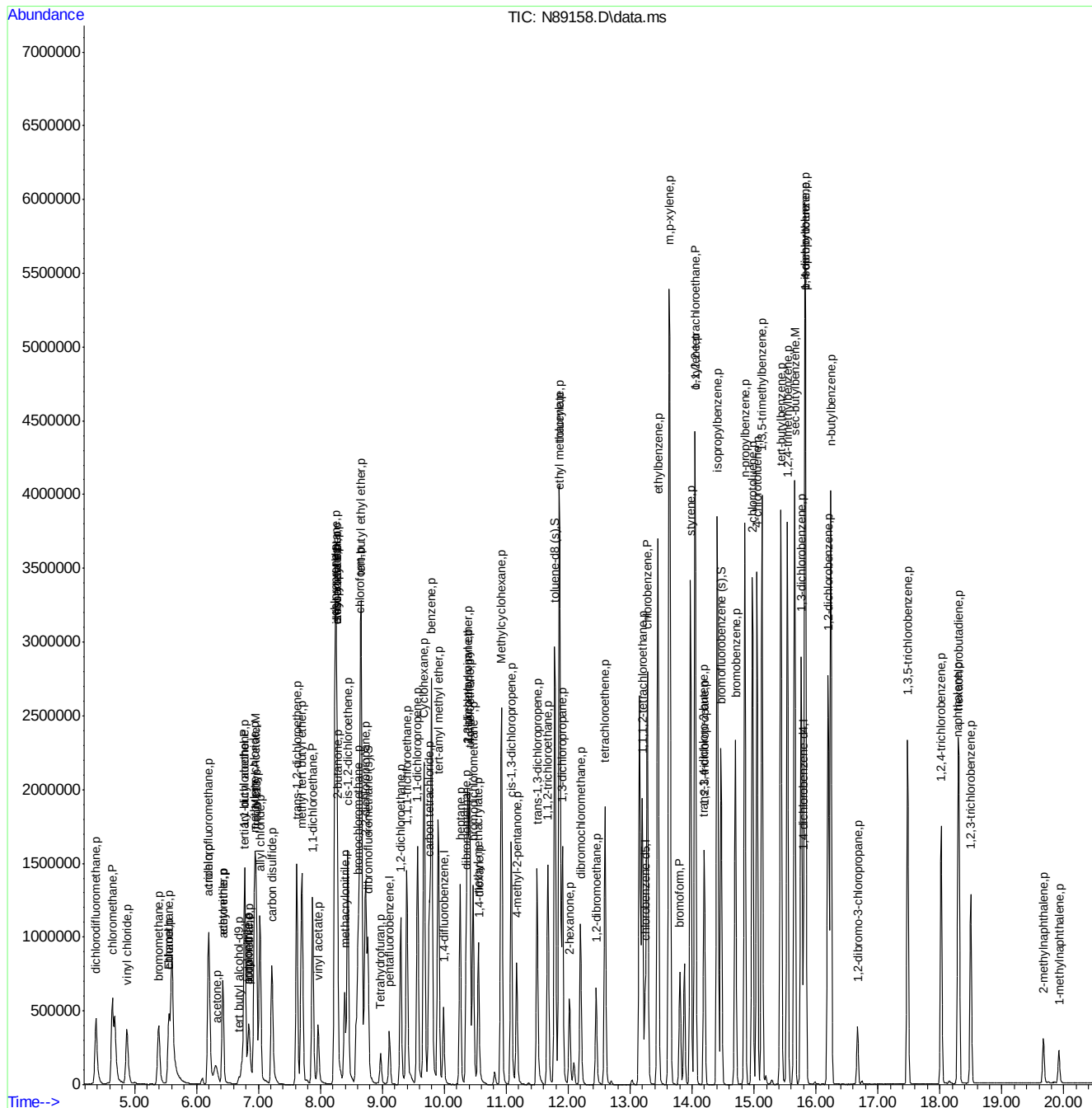
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93)	1,3-dichlorobenzene	15.761	146	1250516	210.79	ug/L	98
94)	p-isopropyltoluene	15.821	119	2334112	200.81	ug/L	99
95)	1,4-dichlorobenzene	15.828	146	1067377	189.50	ug/L	99
96)	1,2-dichlorobenzene	16.196	146	1181841	219.01	ug/L	97
97)	n-butylbenzene	16.239	91	2506368	249.09	ug/L	100
98)	1,2-dibromo-3-chloropr...	16.670	75	111732	306.15	ug/L	99
99)	1,2,4-trichlorobenzene	18.020	180	595768	483.93	ug/L	98
100)	1,3,5-trichlorobenzene	17.479	180	781502	245.64	ug/L	100
101)	hexachlorobutadiene	18.307	225	398795	254.84	ug/L	100
102)	naphthalene	18.293	128	891071	467.93	ug/L	100
103)	1,2,3-trichlorobenzene	18.498	180	445389	580.37	ug/L	99
104)	2-methylnaphthalene	19.671	142	169848	130.31	ug/L #	100
105)	1-methylnaphthalene	19.922	142	128495	115.48	ug/L #	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89158.D
Acq On : 29 Jul 2014 11:37 pm
Operator : krystend
Sample : IC3306-200
Misc : ms32328,MSN3306,,,,,5,1
ALS Vial : 31 Sample Multiplier: 1

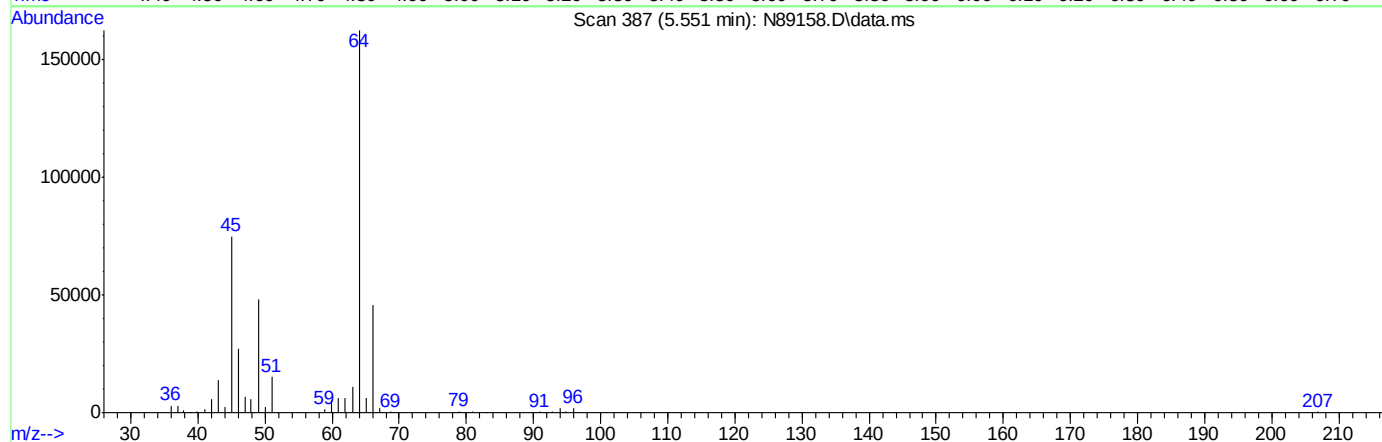
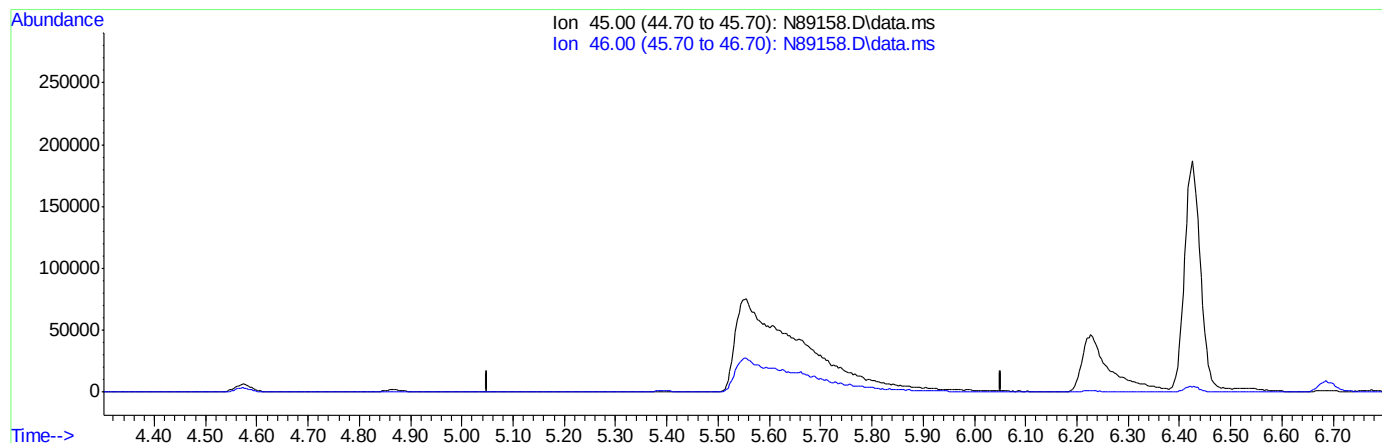
Quant Time: Jul 30 11:51:14 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:22:11 2014
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89158.D
Acq On : 29 Jul 2014 11:37 pm
Operator : krystend
Sample : IC3306-200
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Jul 30 09:22:23 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:22:11 2014
Response via : Initial Calibration



(3) Ethanol (p)

5.552min (-5.552) 0.00ug/L

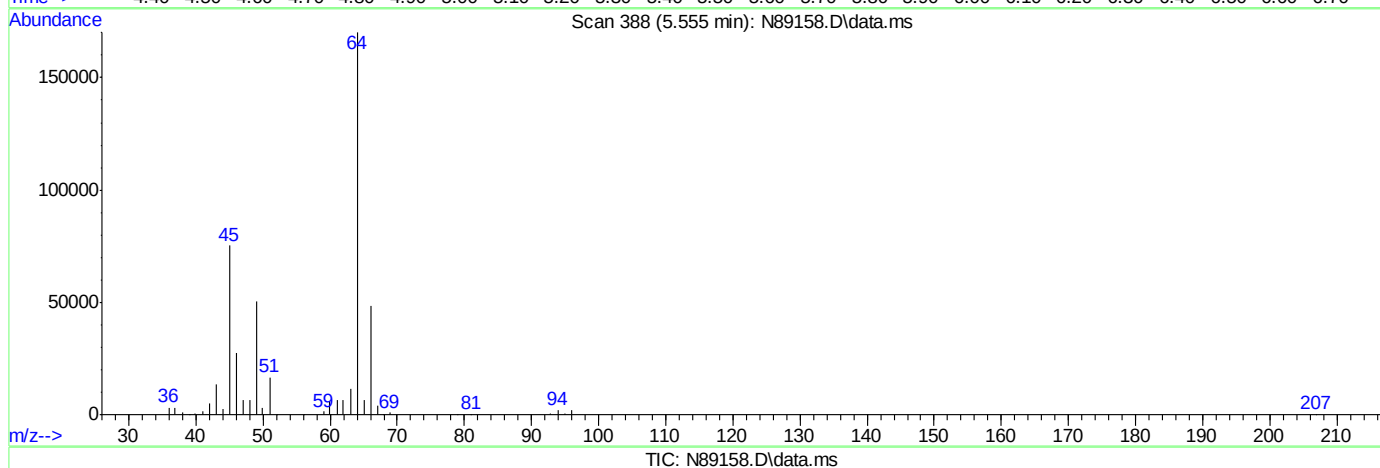
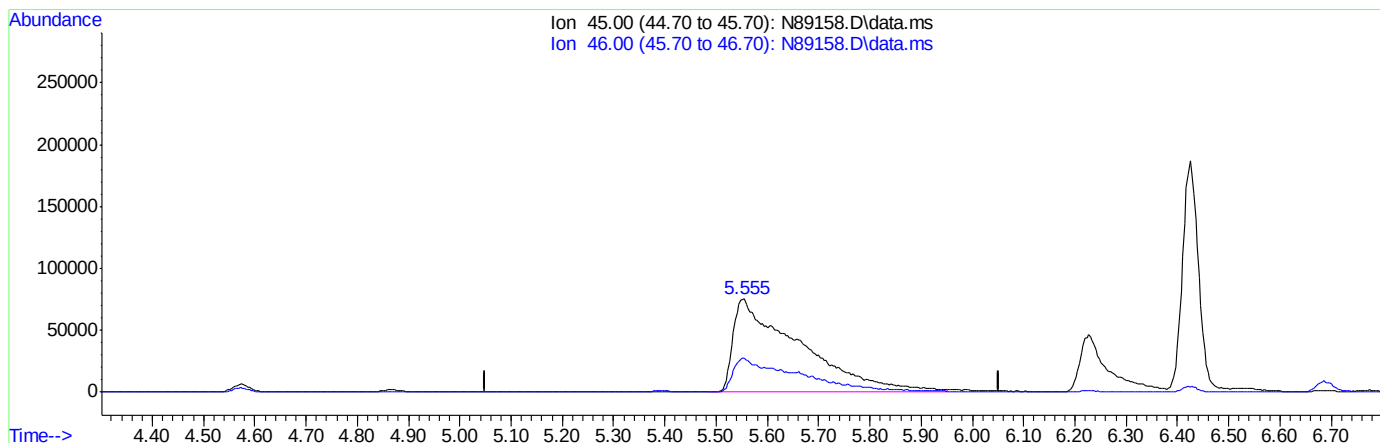
response 0

Ion	Exp%	Act%
45.00	100	0.00
46.00	36.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89158.D
Acq On : 29 Jul 2014 11:37 pm
Operator : krystend
Sample : IC3306-200
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Jul 30 09:22:23 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:22:11 2014
Response via : Initial Calibration



(3) Ethanol (p)

5.555min (+0.003) 17797.95ug/L m

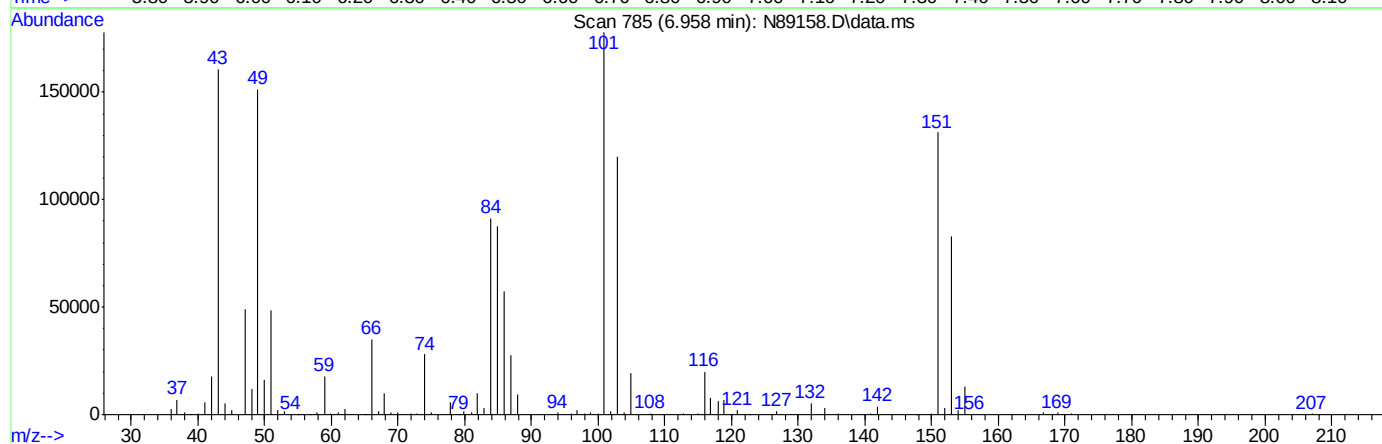
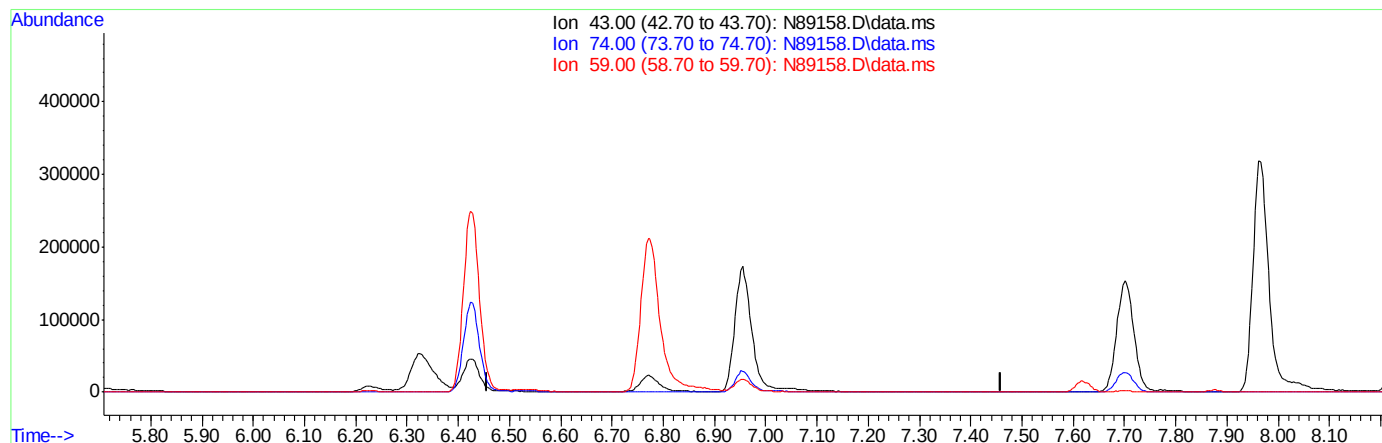
response 682437

Ion	Exp%	Act%
45.00	100	100
46.00	36.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89158.D
Acq On : 29 Jul 2014 11:37 pm
Operator : krystend
Sample : IC3306-200
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Jul 30 09:22:23 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:22:11 2014
Response via : Initial Calibration



(17) Methyl Acetate (M)

6.959min (-6.959) 0.00ug/L

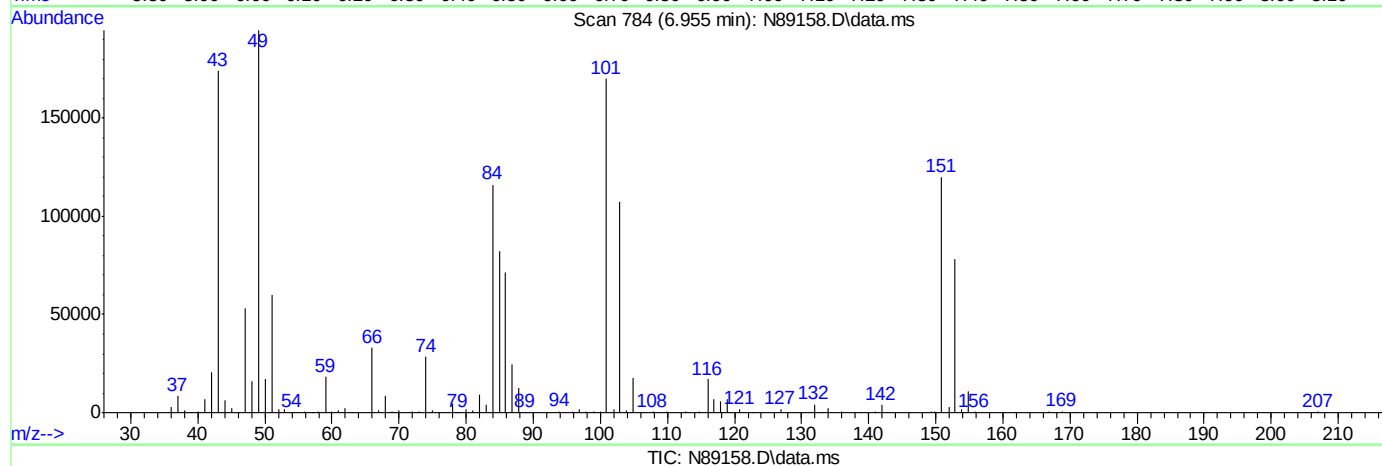
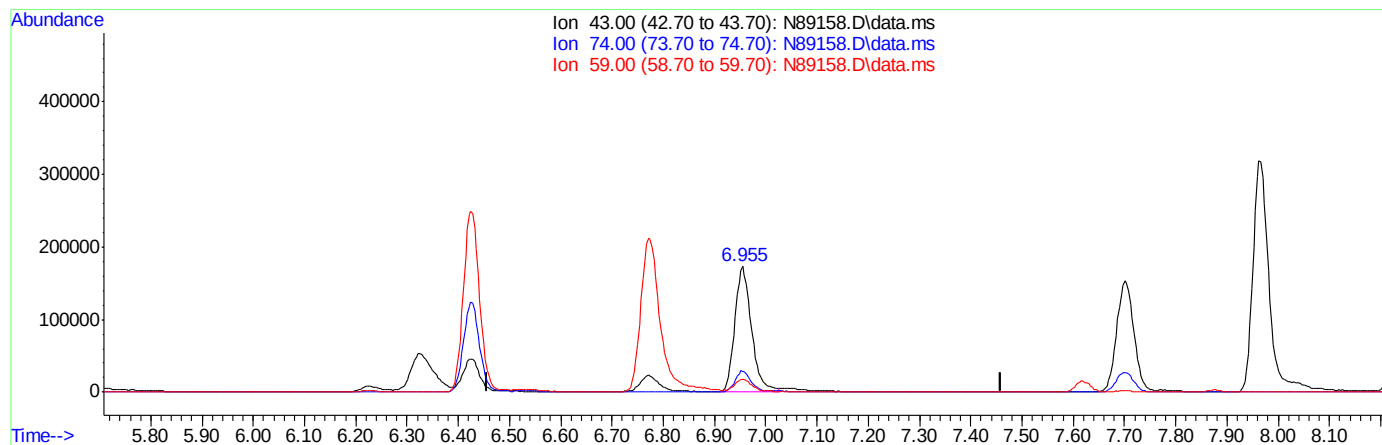
response 0

Ion	Exp%	Act%
43.00	100	0.00
74.00	15.10	0.00#
59.00	10.70	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89158.D
Acq On : 29 Jul 2014 11:37 pm
Operator : krystend
Sample : IC3306-200
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Jul 30 09:22:23 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:22:11 2014
Response via : Initial Calibration



(17) Methyl Acetate (M)

6.955min (-0.004) 174.94ug/L m

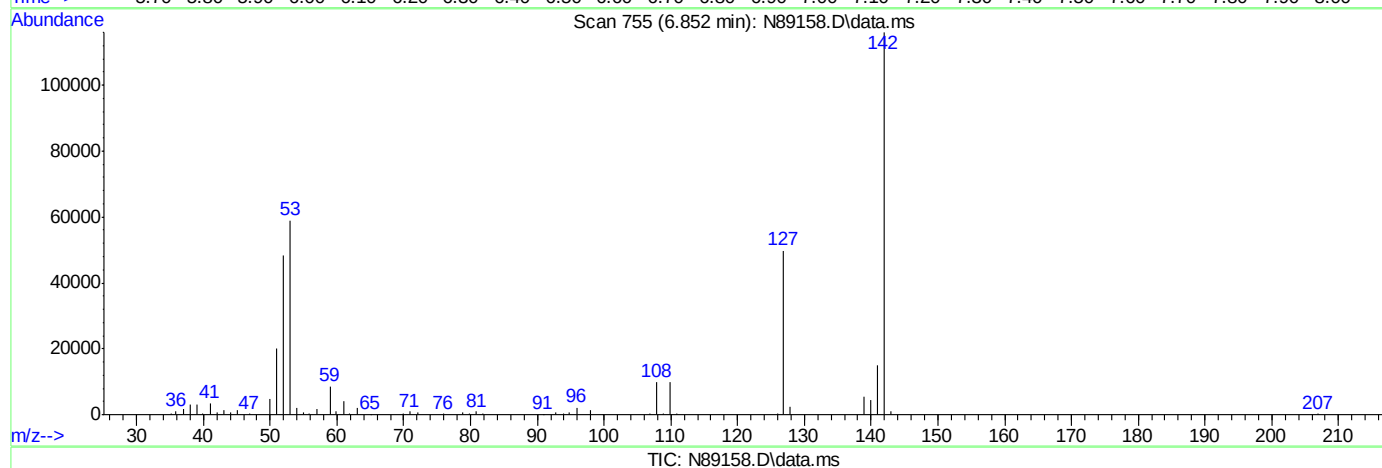
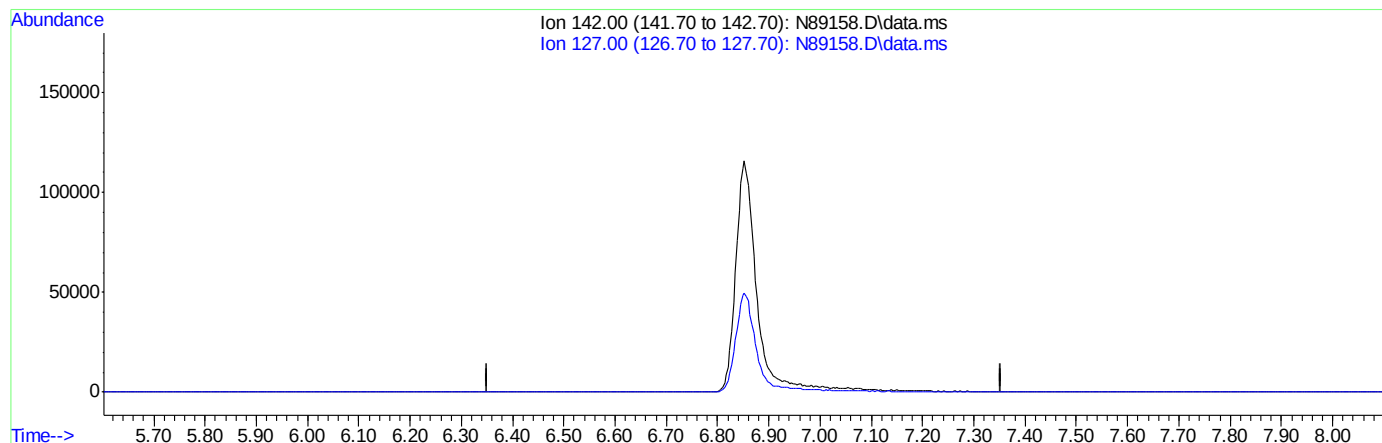
response 391021

Ion	Exp%	Act%
43.00	100	100
74.00	15.10	16.27
59.00	10.70	10.41
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89158.D
Acq On : 29 Jul 2014 11:37 pm
Operator : krystend
Sample : IC3306-200
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Jul 30 09:22:23 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:22:11 2014
Response via : Initial Calibration



(23) iodomethane (p)

6.853min (-6.853) 0.00ug/L

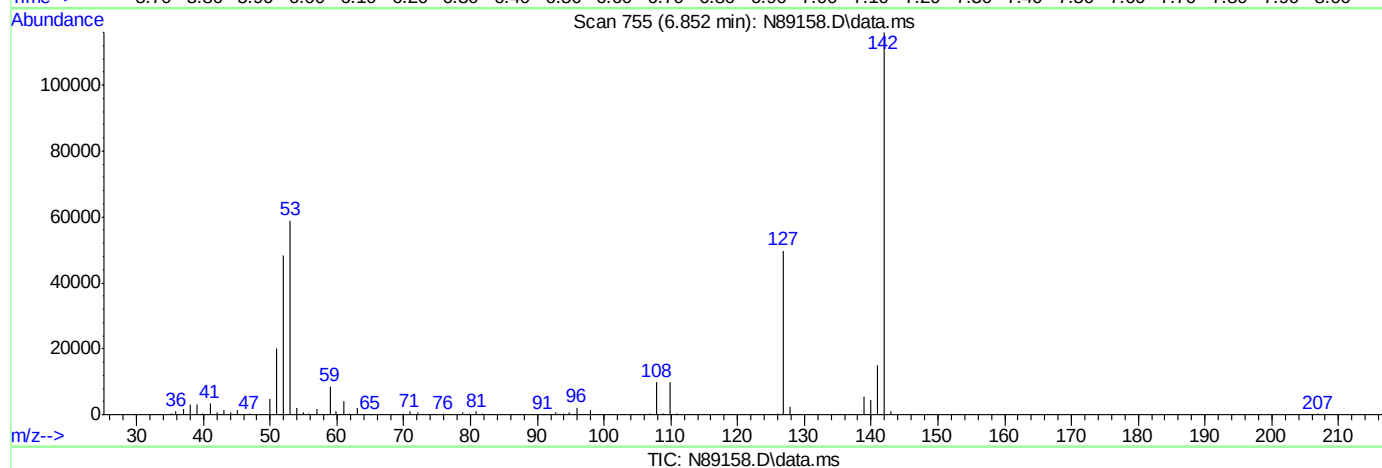
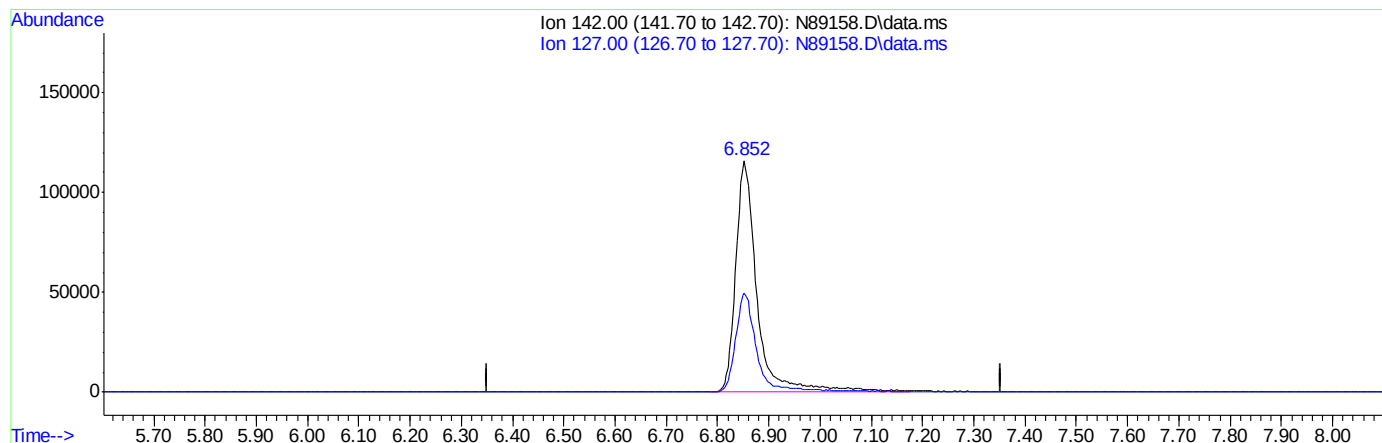
response 0

Ion	Exp%	Act%
142.00	100	0.00
127.00	42.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89158.D
Acq On : 29 Jul 2014 11:37 pm
Operator : krystend
Sample : IC3306-200
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Jul 30 09:22:23 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:22:11 2014
Response via : Initial Calibration



(23) iodomethane (p)

6.852min (-0.000) 220.56ug/L m

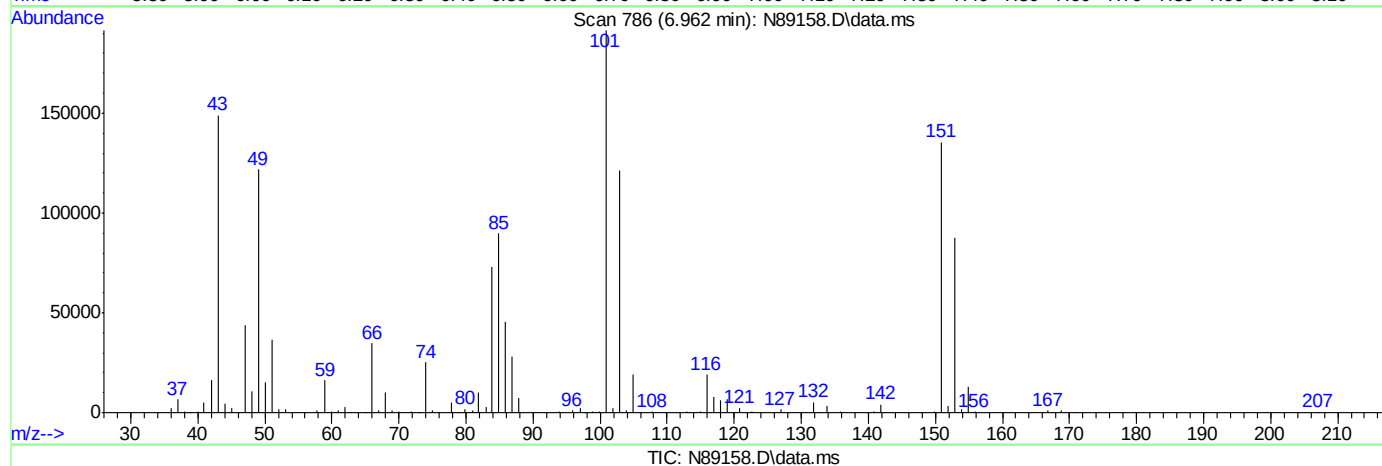
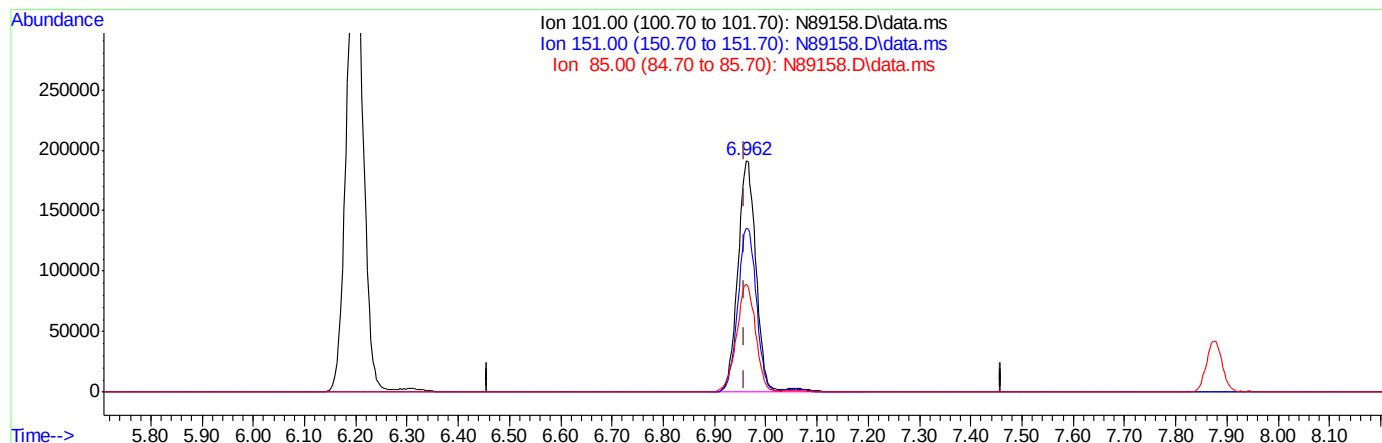
response 338113

Ion	Exp%	Act%
142.00	100	100
127.00	42.50	42.97
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89158.D
Acq On : 29 Jul 2014 11:37 pm
Operator : krystend
Sample : IC3306-200
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Jul 30 09:23:00 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:22:11 2014
Response via : Initial Calibration



(13) freon-113 (p)

6.962min (+0.003) 278.37ug/L

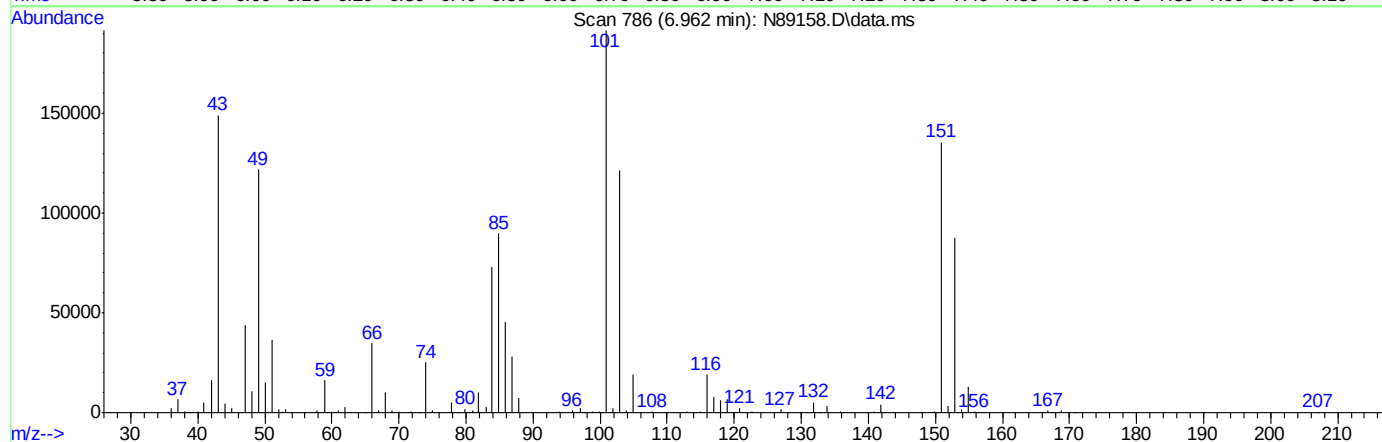
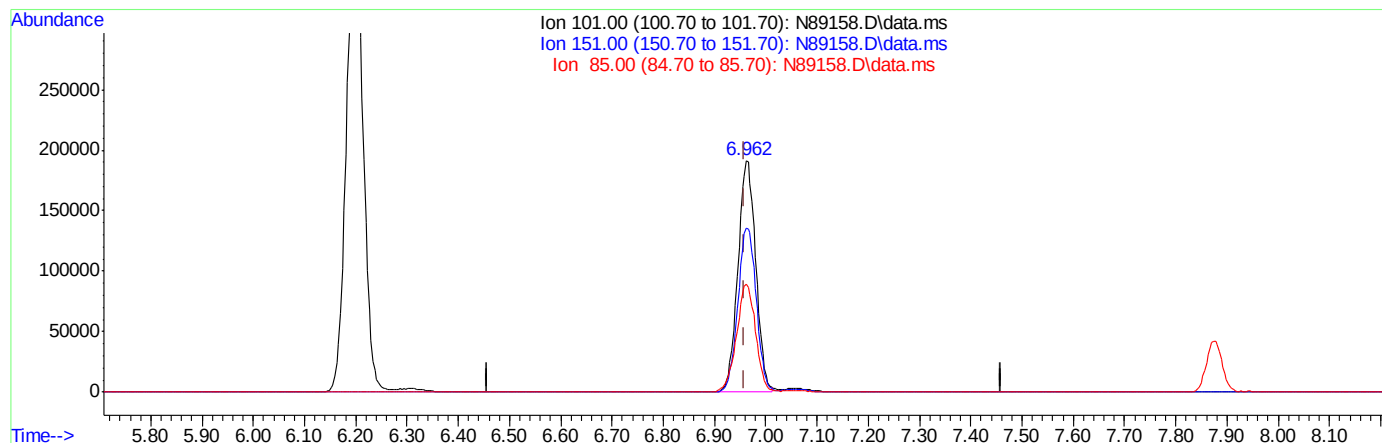
response 473748

Ion	Exp%	Act%
101.00	100	100
151.00	73.30	70.82
85.00	45.30	46.83
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89158.D
Acq On : 29 Jul 2014 11:37 pm
Operator : krystend
Sample : IC3306-200
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Jul 30 09:23:00 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:22:11 2014
Response via : Initial Calibration



TIC: N89158.D\data.ms

(13) freon-113 (p)

6.962min (+0.003) 270.15ug/L m

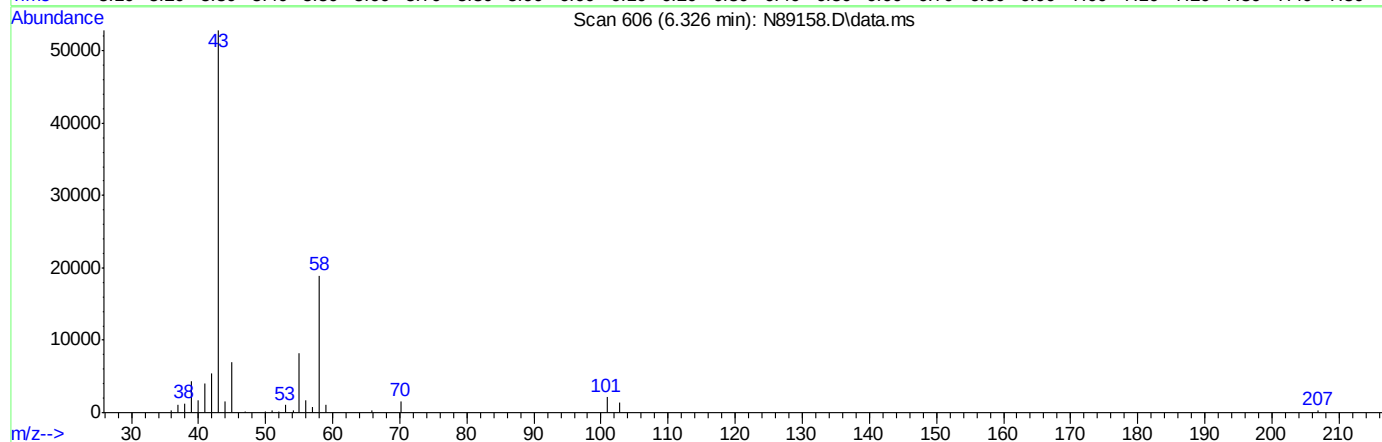
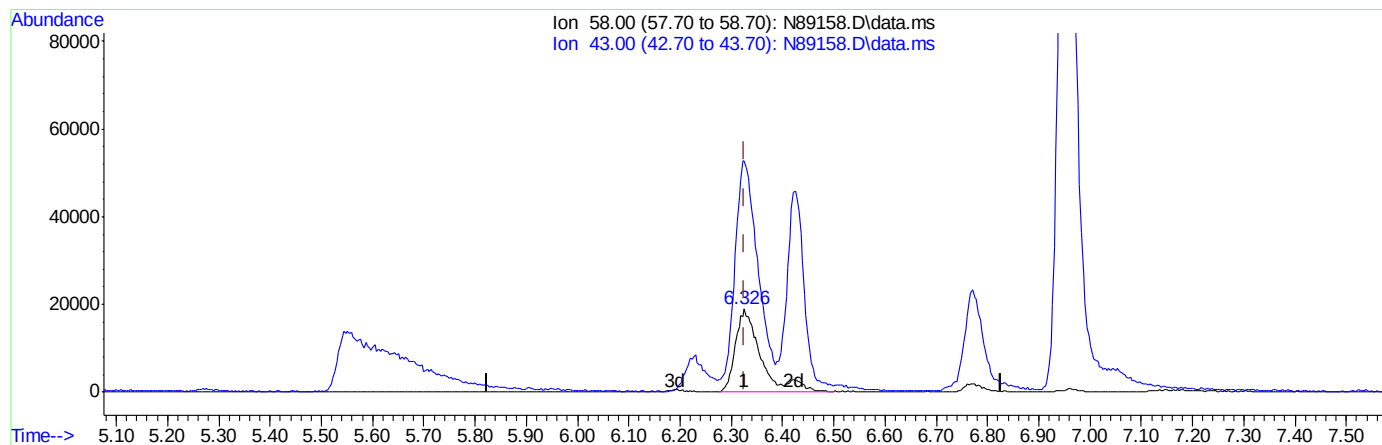
response 459756

Ion	Exp%	Act%
101.00	100	100
151.00	73.30	70.82
85.00	45.30	46.83
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89158.D
Acq On : 29 Jul 2014 11:37 pm
Operator : krystend
Sample : IC3306-200
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Jul 30 09:29:14 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:22:11 2014
Response via : Initial Calibration



TIC: N89158.D\data.ms

(16) acetone (p)

6.326min (-0.000) 165.72ug/L m

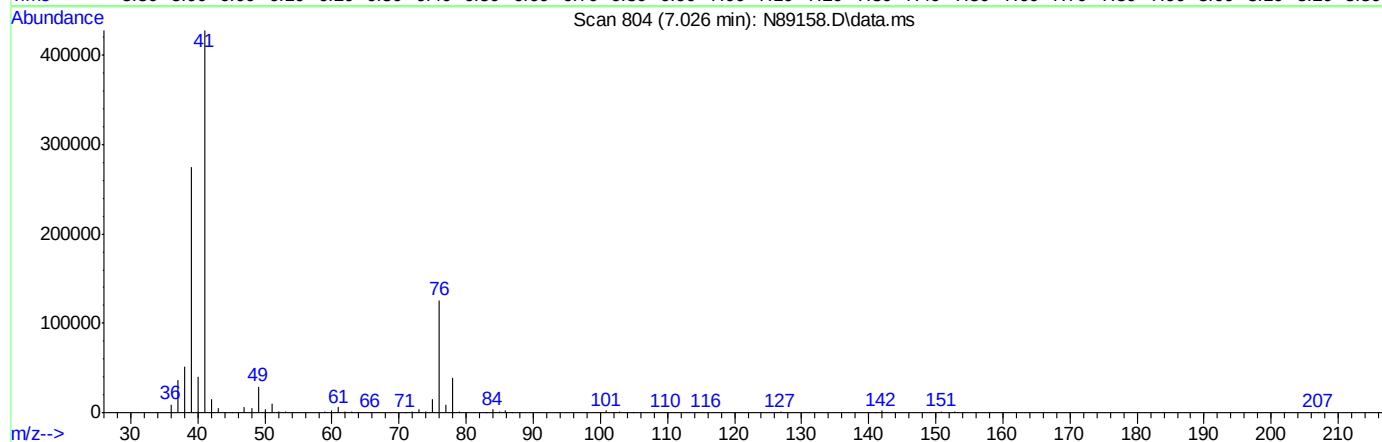
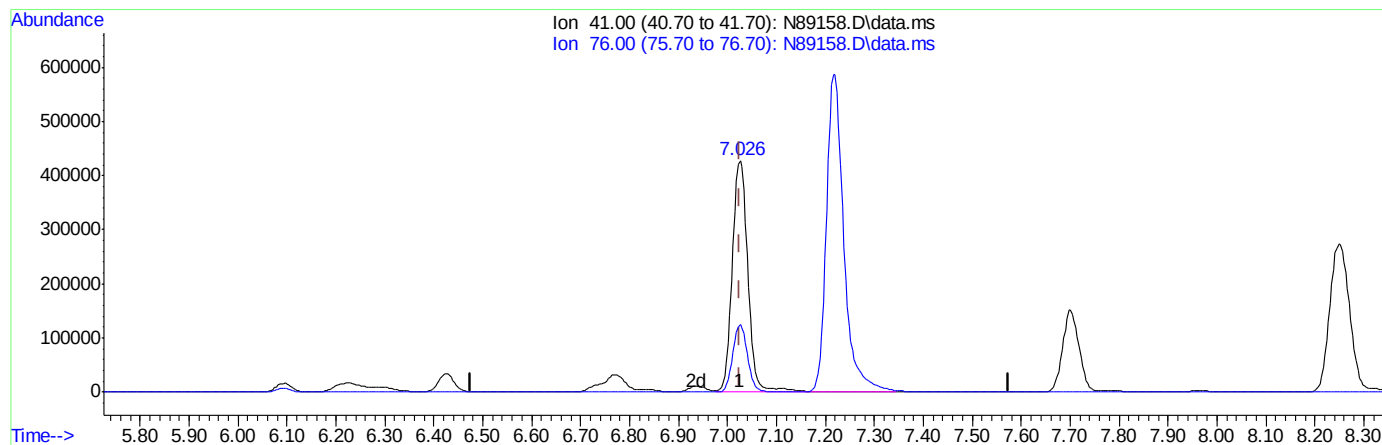
response 65727

Ion	Exp%	Act%
58.00	100	100
43.00	245.80	278.89#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89158.D
Acq On : 29 Jul 2014 11:37 pm
Operator : krystend
Sample : IC3306-200
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Jul 30 09:33:44 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:22:11 2014
Response via : Initial Calibration



TIC: N89158.D\data.ms

(21) allyl chloride (p)

7.026min (-0.000) 217.94ug/L

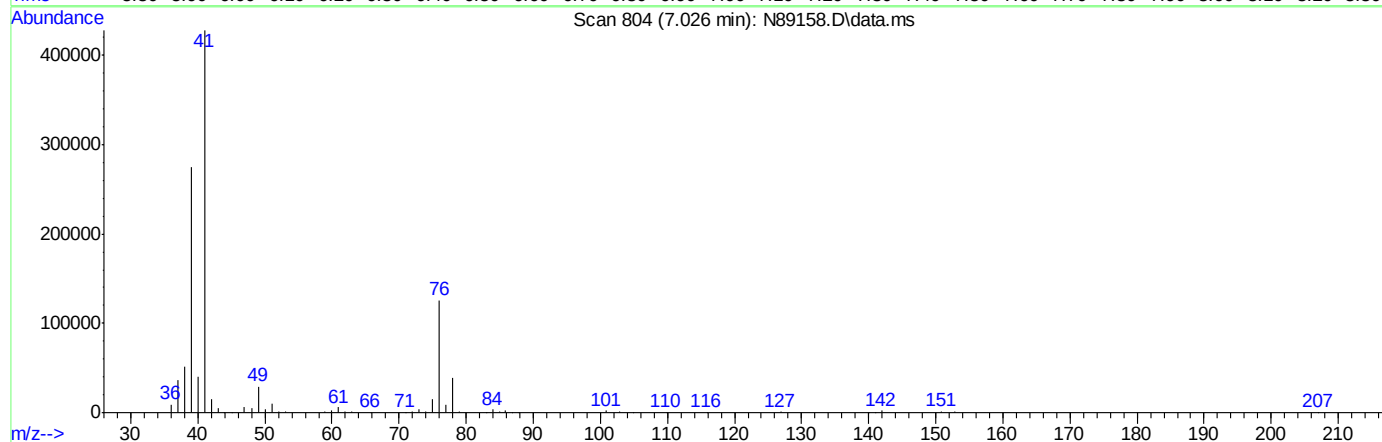
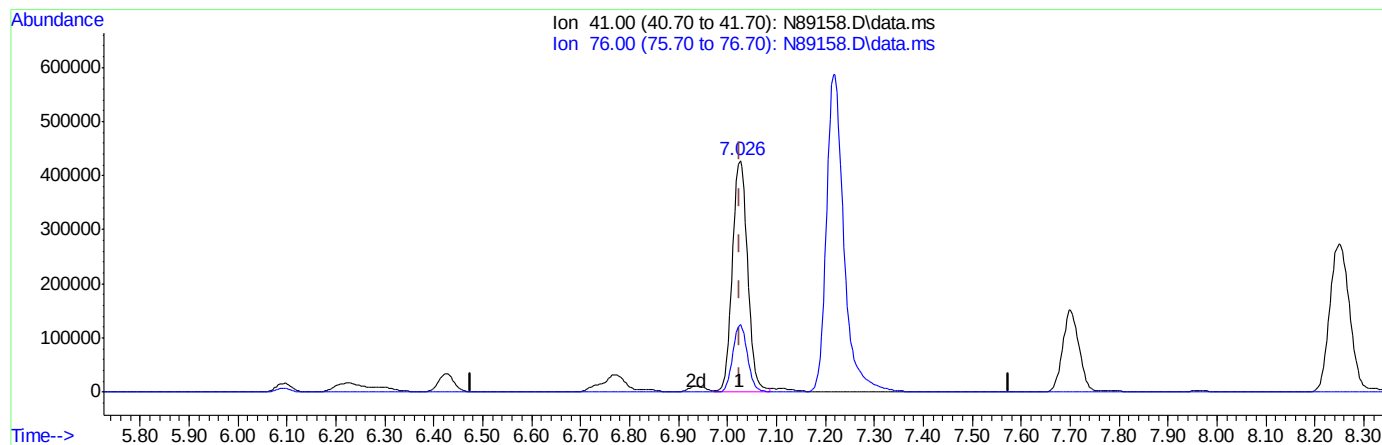
response 948615

Ion	Exp%	Act%
41.00	100	100
76.00	27.00	29.30
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89158.D
Acq On : 29 Jul 2014 11:37 pm
Operator : krystend
Sample : IC3306-200
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Jul 30 09:33:44 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:22:11 2014
Response via : Initial Calibration



TIC: N89158.D\data.ms

(21) allyl chloride (p)

7.026min (-0.000) 212.55ug/L m

response 925175

Ion	Exp%	Act%
41.00	100	100
76.00	27.00	29.37
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140729\
 Data File : N89159.D
 Acq On : 30 Jul 2014 12:04 am
 Operator : krystend
 Sample : IC3306-400
 Misc : ms32328,MSN3306,,,,5,1
 ALS Vial : 32 Sample Multiplier: 1

Quant Time: Jul 30 09:29:38 2014
 Quant Method : C:\msdchem\1\methods\n140729w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Wed Jul 30 09:23:47 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.690	65	81640	500.00	ug/L	0.00
4) pentafluorobenzene	9.115	168	272363	50.00	ug/L	0.00
43) 1,4-difluorobenzene	9.988	114	425423	50.00	ug/L	0.00
66) chlorobenzene-d5	13.244	82	222720	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.800	152	157216	50.00	ug/L	0.00

System Monitoring Compounds						
40) dibromofluoromethane (s)	8.769	113	1134023	355.87	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	711.74%#		
60) toluene-d8 (s)	11.784	98	4124442	331.71	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	663.42%#		
82) bromofluorobenzene (s)	14.468	95	1738811	361.16	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	722.32%#		

Target Compounds						Qvalue
2) tertiary butyl alcohol	6.771	59	1170023	4039.32	ug/L	# 100
3) Ethanol	5.559	45	1292137m	32048.73	ug/L	
5) dichlorodifluoromethane	4.374	85	1329362	438.05	ug/L	96
6) chloromethane	4.632	50	1751378	391.21	ug/L	98
7) vinyl chloride	4.873	62	725607	234.63	ug/L	95
8) bromomethane	5.385	96	804128	412.91	ug/L	95
9) chloroethane	5.552	64	892748	365.87	ug/L	100
10) ethyl ether	6.425	59	1151472	372.60	ug/L	99
11) acetonitrile	6.425	41	152742	349.23	ug/L	94
12) trichlorofluoromethane	6.202	101	1763099	464.73	ug/L	98
13) freon-113	6.962	101	843112m	428.98	ug/L	
14) acrolein	6.188	56	556962	3360.85	ug/L	100
15) 1,1-dichloroethene	6.782	96	891534	343.01	ug/L	97
16) acetone	6.326	58	132831	322.78	ug/L	# 77
17) Methyl Acetate	6.955	43	792350	333.99	ug/L	# 95
18) methylene chloride	6.934	84	1101003	359.51	ug/L	91
19) methyl tert butyl ether	7.701	73	3036379	462.55	ug/L	96
20) acrylonitrile	6.835	53	474000	413.53	ug/L	97
21) allyl chloride	7.026	41	1581409	330.22	ug/L	95
22) trans-1,2-dichloroethene	7.620	96	1109127	404.61	ug/L	97
23) iodomethane	6.853	142	660663m	390.86	ug/L	
24) carbon disulfide	7.217	76	2890835	436.09	ug/L	99
25) propionitrile	6.831	54	19200	405.89	ug/L	100
26) vinyl acetate	7.963	43	1782135	814.60	ug/L	99
27) chloroprene	8.231	53	2117049	355.04	ug/L	98
28) di-isopropyl ether	8.263	45	3779491	283.44	ug/L	89
29) methacrylonitrile	8.394	41	741358	400.11	ug/L	95
30) 2-butanone	8.281	72	104924	431.09	ug/L	# 76
31) Hexane	8.249	41	1322996	322.78	ug/L	# 87
32) 1,1-dichloroethane	7.874	63	2844031	440.80	ug/L	100
33) tert-butyl ethyl ether	8.663	59	4048719	555.67	ug/L	98
34) isobutyl alcohol	8.263	43	2740835	1503.99	ug/L	98
35) 2,2-dichloropropane	8.730	77	1739636	685.92	ug/L	99
36) cis-1,2-dichloroethene	8.443	96	1274484	394.18	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140729\
 Data File : N89159.D
 Acq On : 30 Jul 2014 12:04 am
 Operator : krystend
 Sample : IC3306-400
 Misc : ms32328,MSN3306,,,,,5,1
 ALS Vial : 32 Sample Multiplier: 1

Quant Time: Jul 30 09:29:38 2014
 Quant Method : C:\msdchem\1\methods\n140729w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Wed Jul 30 09:23:47 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) ethyl acetate	8.263	43	2741531	300.87	ug/L	87
38) bromochloromethane	8.613	128	463060	328.21	ug/L	93
39) chloroform	8.645	83	2000342	360.65	ug/L	97
41) Tetrahydrofuran	8.974	42	341839	403.04	ug/L	96
42) 1,1,1-trichloroethane	9.398	97	1967534	601.67	ug/L	100
44) Cyclohexane	9.674	56	2429420	416.21	ug/L	96
45) carbon tetrachloride	9.759	117	1469987	507.32	ug/L	100
46) 1,1-dichloropropene	9.568	75	1610747	410.90	ug/L	97
47) benzene	9.797	78	4416927	358.96	ug/L	99
48) 1,2-dichloroethane	9.299	62	2072811	412.80	ug/L	99
49) tert-amyl methyl ether	9.903	73	2952544	515.70	ug/L	95
50) heptane	10.257	43	1310669	436.76	ug/L	93
51) trichloroethene	10.413	95	1268409	334.41	ug/L	98
52) 1,2-dichloropropane	10.381	63	1459633	356.91	ug/L	100
53) dibromomethane	10.356	93	710313	397.27	ug/L	99
54) bromodichloromethane	10.469	83	1888243	435.76	ug/L	99
55) Methylcyclohexane	10.922	83	1868084	431.63	ug/L	94
56) 2-chloroethyl vinyl ether	10.381	63	1459633	340.01	ug/L #	98
57) methyl methacrylate	10.550	69	716260	442.27	ug/L	90
58) 1,4-dioxane	10.568	88	52995	2217.24	ug/L	86
59) cis-1,3-dichloropropene	11.081	75	2064510	529.51	ug/L	99
61) 4-methyl-2-pentanone	11.166	43	1291133	381.79	ug/L	97
62) toluene	11.858	92	2582188	337.53	ug/L	98
63) trans-1,3-dichloropropene	11.498	75	1867289	578.92	ug/L	97
64) 1,1,2-trichloroethane	11.675	83	878861	380.78	ug/L	100
65) ethyl methacrylate	11.866	69	1159425	397.69	ug/L	82
67) tetrachloroethene	12.597	166	1082551	393.52	ug/L	98
68) 1,3-dichloropropane	11.908	76	1736377	370.99	ug/L	99
69) dibromochloromethane	12.201	129	1275533	471.28	ug/L	98
70) 1,2-dibromoethane	12.452	107	1007624	407.24	ug/L	99
71) 2-hexanone	12.021	43	900409	421.34	ug/L	100
72) chlorobenzene	13.280	112	2962771	363.37	ug/L	98
73) 1,1,1,2-tetrachloroethane	13.195	131	1146871	398.11	ug/L	98
74) ethylbenzene	13.449	91	5436804	351.54	ug/L	99
75) m,p-xylene	13.637	106	3387721	621.99	ug/L	96
76) o-xylene	14.047	106	1790712	319.50	ug/L	100
77) styrene	13.976	104	3180811	353.17	ug/L	96
78) bromoform	13.803	173	790261	504.17	ug/L	97
79) trans-1,4-dichloro-2-b...	14.195	53	320507	915.19	ug/L #	6
81) isopropylbenzene	14.407	105	5037745	380.53	ug/L	100
83) bromobenzene	14.701	156	1208730	391.89	ug/L	98
84) 1,1,2,2-tetrachloroethane	14.054	83	988813	319.04	ug/L	94
85) 1,2,3-trichloropropane	14.195	75	1321847	481.85	ug/L	97
86) n-propylbenzene	14.853	91	6229243	385.51	ug/L	99
87) 2-chlorotoluene	14.977	91	4097622	381.93	ug/L	98
88) 4-chlorotoluene	15.051	91	4241626	391.48	ug/L	99
89) 1,3,5-trimethylbenzene	15.129	105	4453617	371.02	ug/L	98
90) tert-butylbenzene	15.433	91	2897240	387.93	ug/L	98
91) 1,2,4-trimethylbenzene	15.539	105	4438299	388.38	ug/L	99
92) sec-butylbenzene	15.655	105	5661498	388.73	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89159.D
Acq On : 30 Jul 2014 12:04 am
Operator : krystend
Sample : IC3306-400
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Jul 30 09:29:38 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:23:47 2014
Response via : Initial Calibration

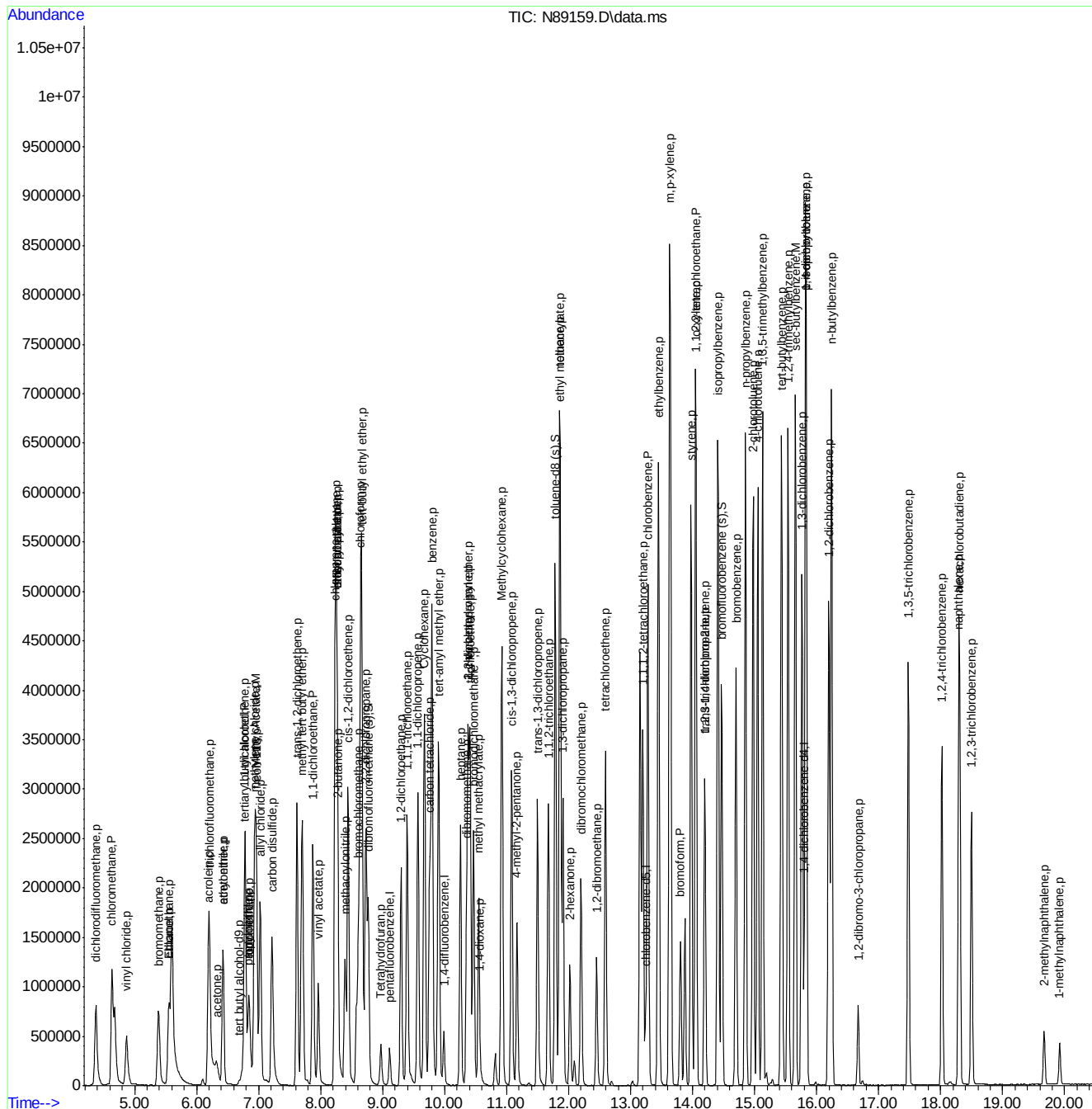
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,3-dichlorobenzene	15.765	146	2330773	398.09	ug/L	97
94) p-isopropyltoluene	15.822	119	4004501	351.20	ug/L	99
95) 1,4-dichlorobenzene	15.832	146	1893496	345.18	ug/L	97
96) 1,2-dichlorobenzene	16.196	146	2154327	402.45	ug/L	96
97) n-butylbenzene	16.239	91	4598322	447.85	ug/L	98
98) 1,2-dibromo-3-chloropr...	16.670	75	229761	590.00	ug/L	98
99) 1,2,4-trichlorobenzene	18.021	180	1206818	808.63	ug/L	100
100) 1,3,5-trichlorobenzene	17.480	180	1472161	454.72	ug/L	100
101) hexachlorobutadiene	18.307	225	829704	517.21	ug/L	99
102) naphthalene	18.293	128	2005927	878.40	ug/L	100
103) 1,2,3-trichlorobenzene	18.498	180	987811	997.00	ug/L	99
104) 2-methylnaphthalene	19.668	142	313241	233.36	ug/L #	100
105) 1-methylnaphthalene	19.919	142	241383	215.72	ug/L #	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89159.D
Acq On : 30 Jul 2014 12:04 am
Operator : krystend
Sample : IC3306-400
Misc : ms32328,MSN3306,,,5,1
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Jul 30 09:29:38 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:23:47 2014
Response via : Initial Calibration



n140729w.m Wed Jul 30 12:19:21 2014

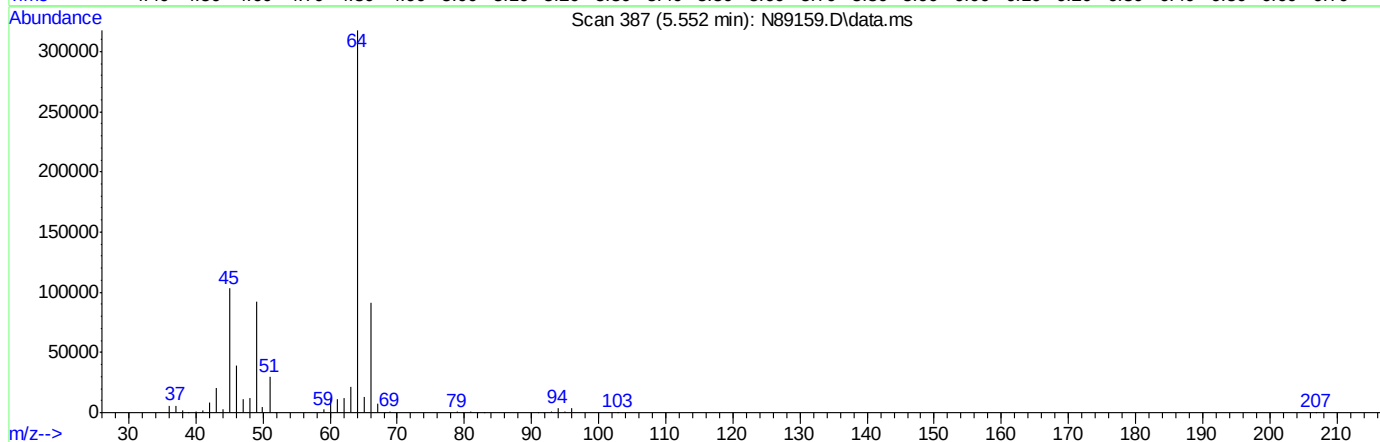
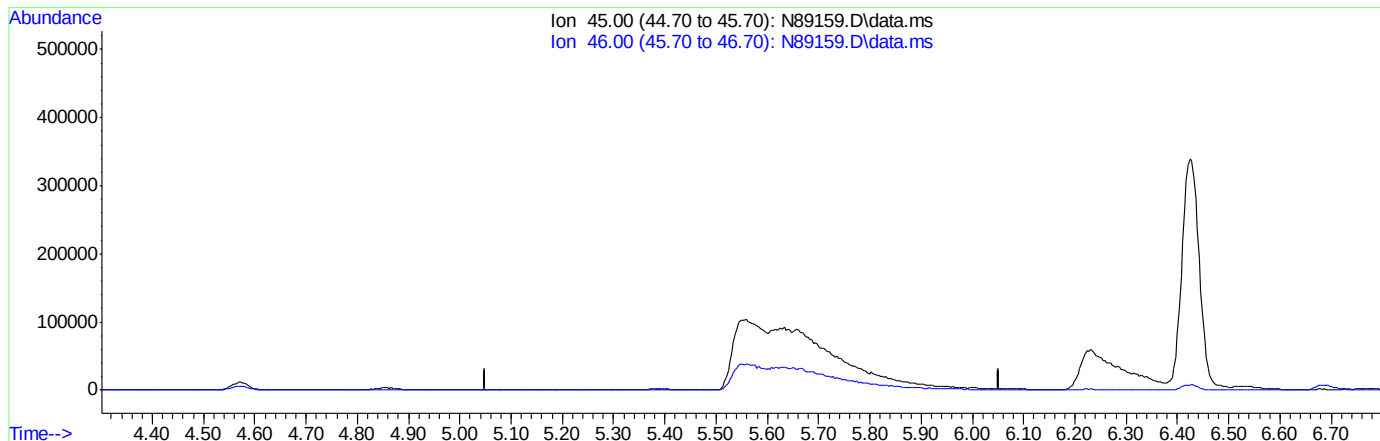
Page: 4

7.6.10

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89159.D
Acq On : 30 Jul 2014 12:04 am
Operator : krystend
Sample : IC3306-400
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Jul 30 09:24:00 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:23:47 2014
Response via : Initial Calibration



TIC: N89159.D\data.ms

(3) Ethanol (p)

5.552min (-5.552) 0.00ug/L

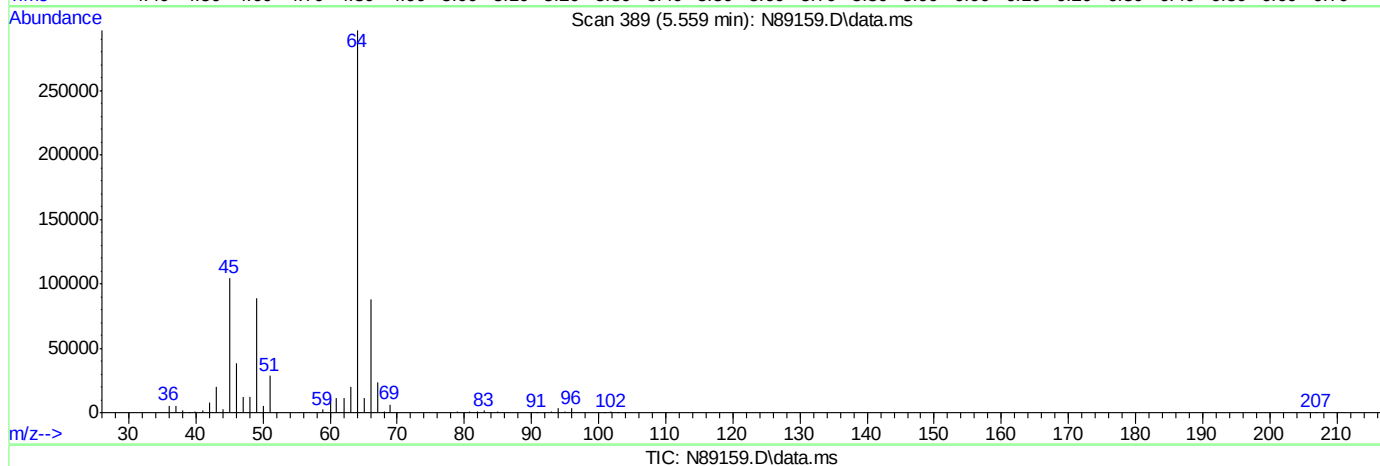
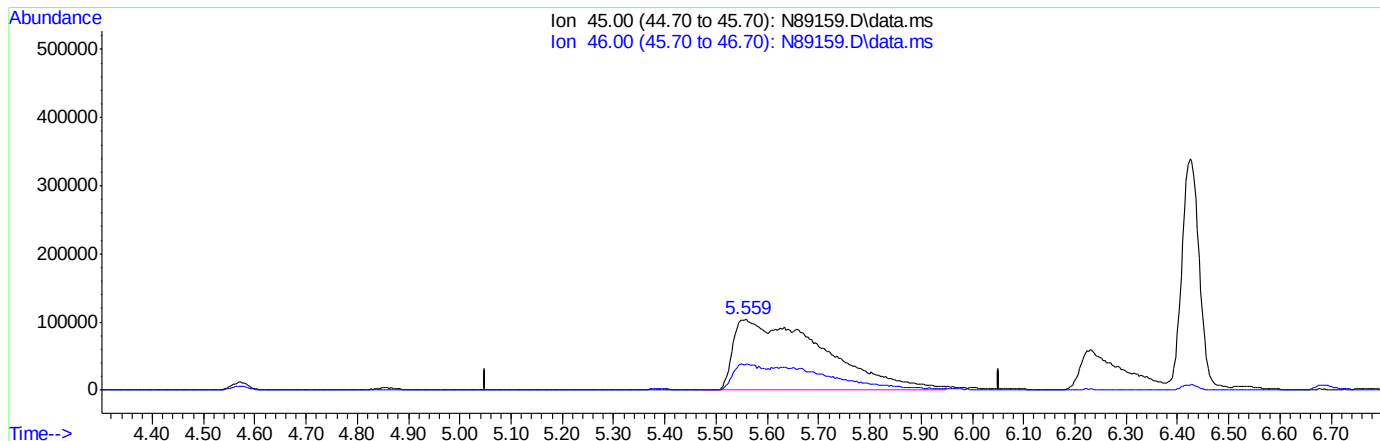
response 0

Ion	Exp%	Act%
45.00	100	0.00
46.00	36.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89159.D
Acq On : 30 Jul 2014 12:04 am
Operator : krystend
Sample : IC3306-400
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Jul 30 09:24:00 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:23:47 2014
Response via : Initial Calibration



(3) Ethanol (p)

5.559min (+0.007) 32048.73ug/L m

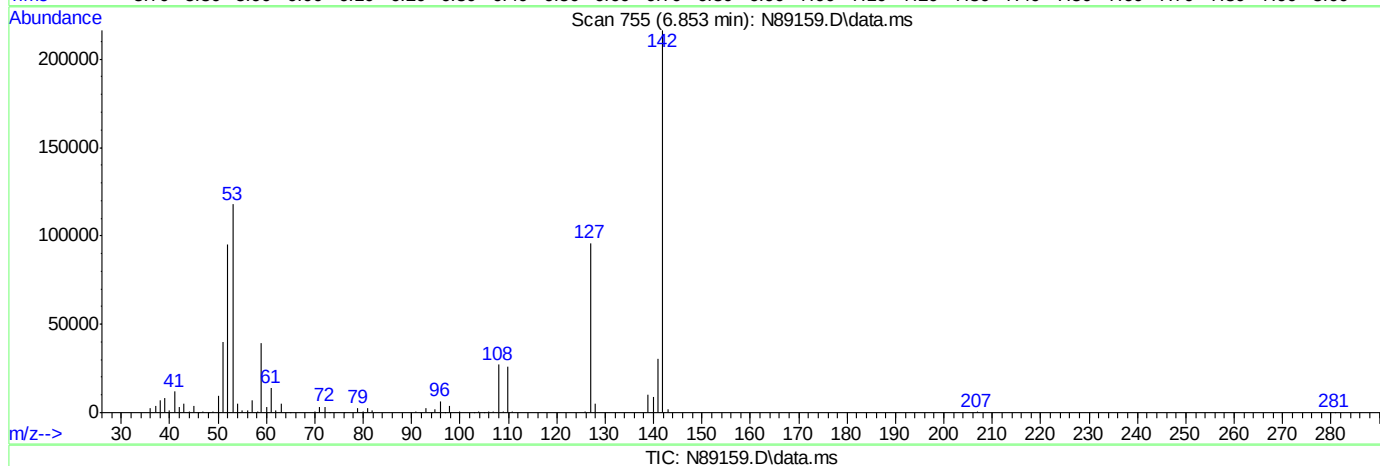
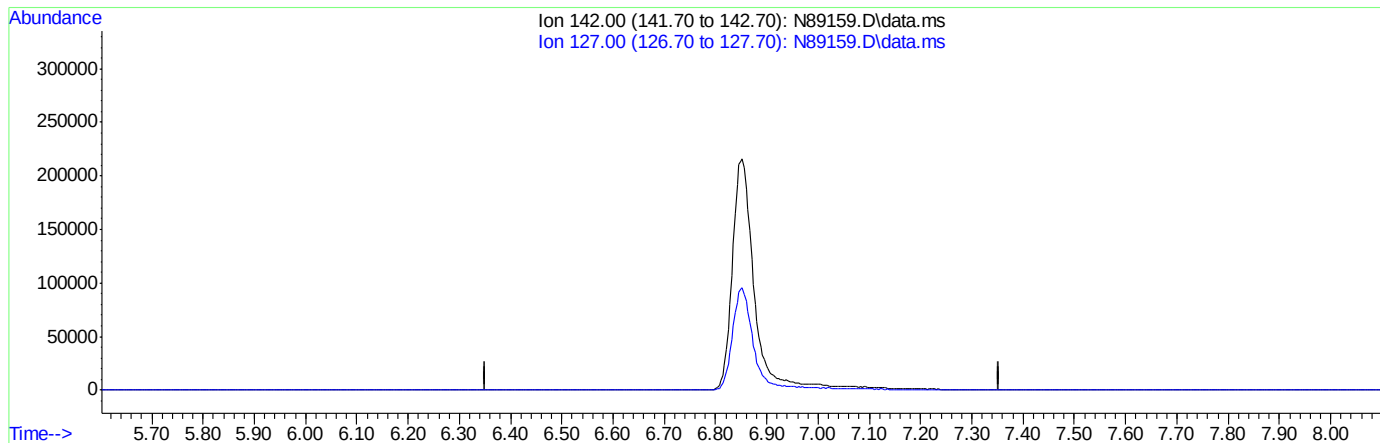
response 1292137

Ion	Exp%	Act%
45.00	100	100
46.00	36.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89159.D
Acq On : 30 Jul 2014 12:04 am
Operator : krystend
Sample : IC3306-400
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Jul 30 09:24:00 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:23:47 2014
Response via : Initial Calibration



(23) iodomethane (p)

6.853min (-6.853) 0.00ug/L

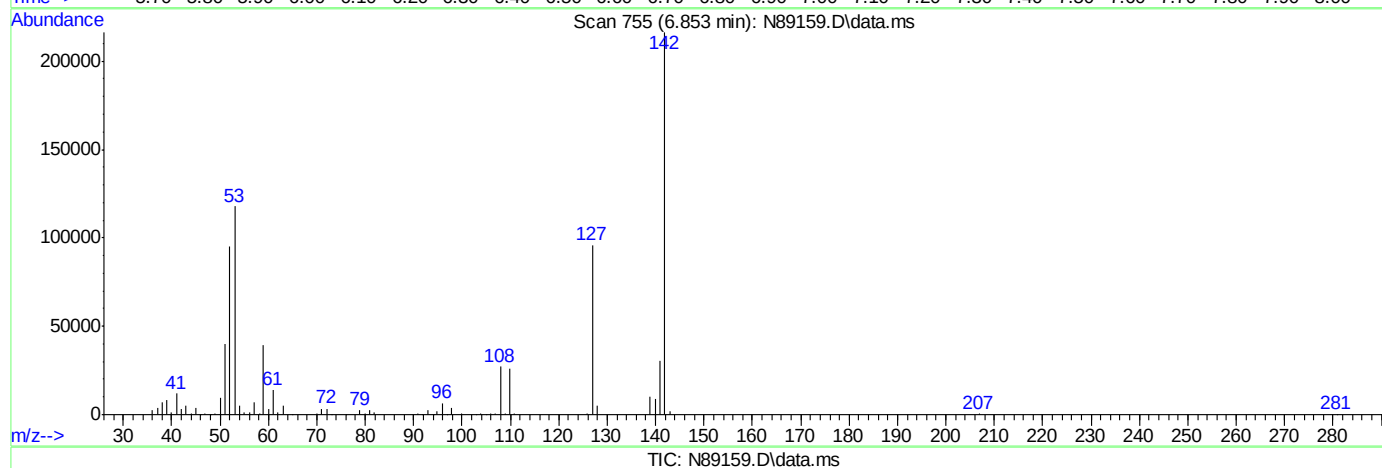
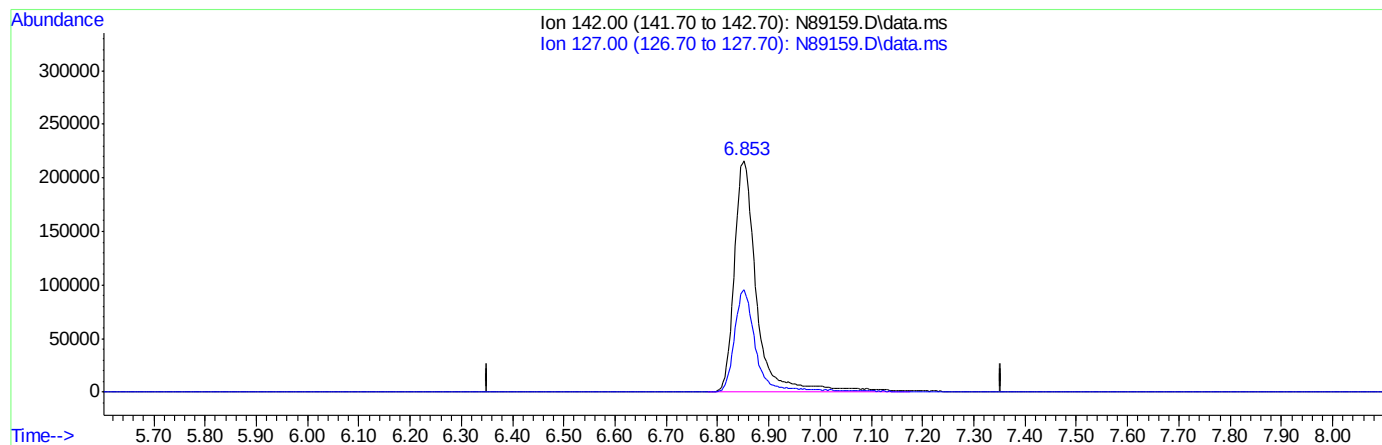
response 0

Ion	Exp%	Act%
142.00	100	0.00
127.00	42.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89159.D
Acq On : 30 Jul 2014 12:04 am
Operator : krystend
Sample : IC3306-400
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Jul 30 09:24:00 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:23:47 2014
Response via : Initial Calibration



(23) iodomethane (p)

6.853min (-0.000) 390.86ug/L m

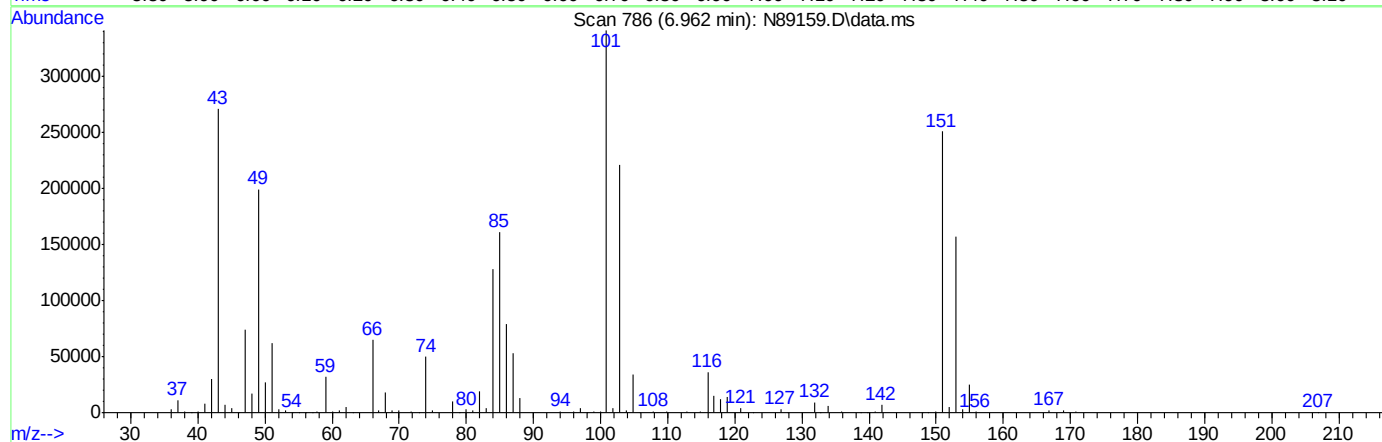
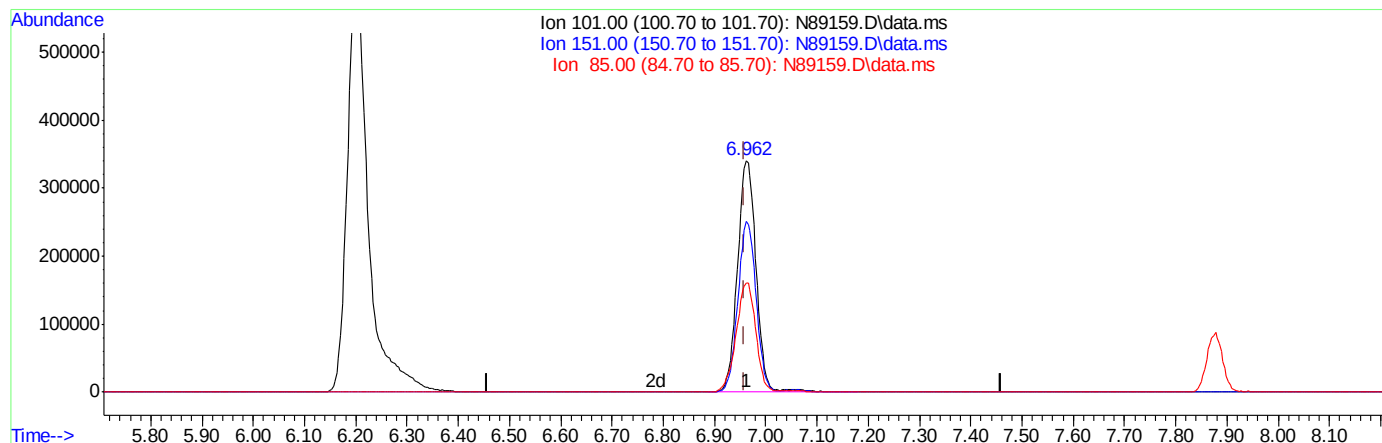
response 660663

Ion	Exp%	Act%
142.00	100	100
127.00	42.50	44.34
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89159.D
Acq On : 30 Jul 2014 12:04 am
Operator : krystend
Sample : IC3306-400
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Jul 30 09:24:29 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:23:47 2014
Response via : Initial Calibration



(13) freon-113 (p)

6.962min (+0.004) 437.96ug/L

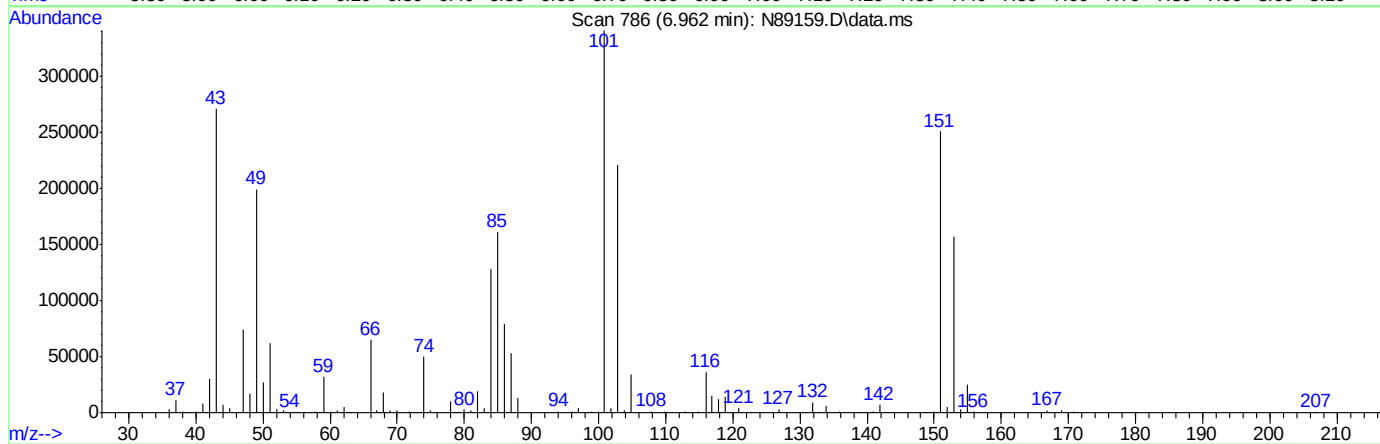
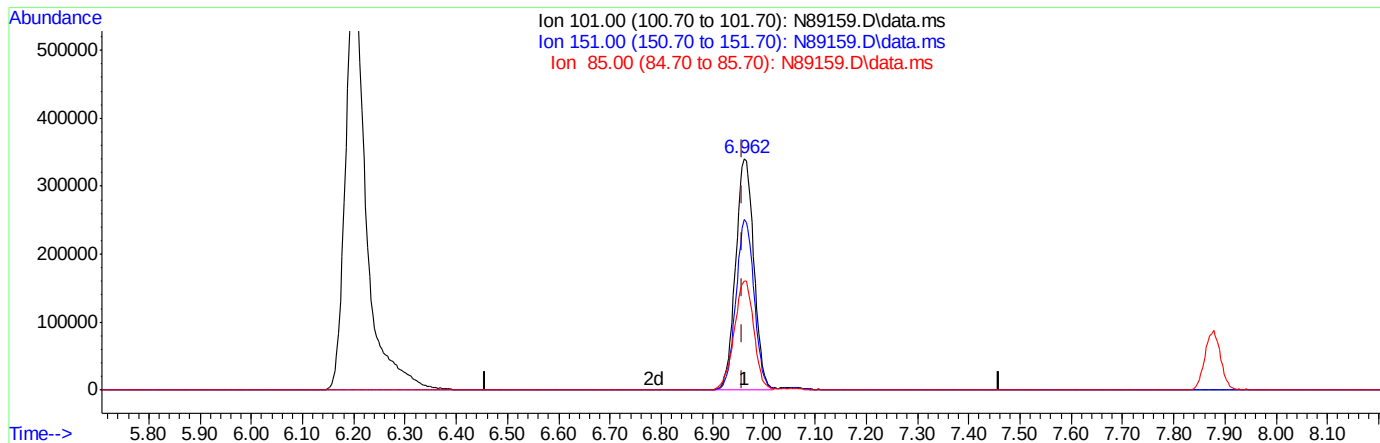
response 860763

Ion	Exp%	Act%
101.00	100	100
151.00	73.30	73.52
85.00	45.30	47.27
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89159.D
Acq On : 30 Jul 2014 12:04 am
Operator : krystend
Sample : IC3306-400
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Jul 30 09:24:29 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 09:23:47 2014
Response via : Initial Calibration



TIC: N89159.D\data.ms

(13) freon-113 (p)

6.962min (+0.004) 428.98ug/L m

response 843112

Ion	Exp%	Act%
101.00	100	100
151.00	73.30	73.52
85.00	45.30	47.27
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140729\
 Data File : N89162.D
 Acq On : 30 Jul 2014 1:26 am
 Operator : krystend
 Sample : ICV3306-50
 Misc : ms32328,MSN3306,,,,5,1
 ALS Vial : 35 Sample Multiplier: 1

Quant Time: Jul 30 12:19:44 2014
 Quant Method : C:\msdchem\1\methods\n140729w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Wed Jul 30 12:02:51 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.693	65	71949	500.00	ug/L	0.00
4) pentafluorobenzene	9.115	168	250329	50.00	ug/L	0.00
43) 1,4-difluorobenzene	9.988	114	386649	50.00	ug/L	0.00
66) chlorobenzene-d5	13.244	82	207661	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.800	152	163446	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.765	113	126489	43.26	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	86.52%		
60) toluene-d8 (s)	11.784	98	491919	44.02	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	88.04%		
82) bromofluorobenzene (s)	14.468	95	199391	39.82	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	79.64%		
Target Compounds						
					Qvalue	
2) tertiary butyl alcohol	6.782	59	115756	452.90	ug/L	# 100
3) Ethanol	5.552	45	177512m	5134.54	ug/L	
5) dichlorodifluoromethane	4.374	85	149409	52.93	ug/L	95
6) chloromethane	4.643	50	202931	49.45	ug/L	98
7) vinyl chloride	4.883	62	152603	53.57	ug/L	99
8) bromomethane	5.392	96	100237	55.82	ug/L	99
9) chloroethane	5.555	64	95530	43.05	ug/L	96
10) ethyl ether	6.428	59	132046	46.93	ug/L	95
11) acetonitrile	6.425	41	19461	49.30	ug/L	98
12) trichlorofluoromethane	6.195	101	219750	61.91	ug/L	98
13) freon-113	6.959	101	108414	58.14	ug/L	98
14) acrolein	6.191	56	61628	451.89	ug/L	100
15) 1,1-dichloroethene	6.782	96	109220	46.42	ug/L	93
16) acetone	6.326	58	14175	40.54	ug/L	# 82
17) Methyl Acetate	6.959	43	86399	40.94	ug/L	# 95
18) methylene chloride	6.941	84	132061	47.51	ug/L	94
19) methyl tert butyl ether	7.701	73	304880	49.67	ug/L	100
20) acrylonitrile	6.842	53	49079	45.92	ug/L	93
21) allyl chloride	7.022	41	212973	47.91	ug/L	95
22) trans-1,2-dichloroethene	7.616	96	129131	51.12	ug/L	93
23) iodomethane	6.856	142	95512	61.50	ug/L	98
24) carbon disulfide	7.213	76	374772	60.72	ug/L	99
25) propionitrile	6.838	54	1499	41.12	ug/L	100
26) vinyl acetate	7.973	43	142921	59.14	ug/L	99
27) chloroprene	8.231	53	234020	43.39	ug/L	94
28) di-isopropyl ether	8.263	45	579159	49.04	ug/L	98
29) methacrylonitrile	8.394	41	67763	39.80	ug/L	99
30) 2-butanone	8.281	72	10388	45.92	ug/L	# 19
31) Hexane	8.245	41	199753	54.52	ug/L	# 80
32) 1,1-dichloroethane	7.874	63	316073	48.03	ug/L	99
33) tert-butyl ethyl ether	8.659	59	347306	39.53	ug/L	98
34) isobutyl alcohol	8.260	43	404918	250.72	ug/L	96
35) 2,2-dichloropropane	8.726	77	143568	51.18	ug/L	97
36) cis-1,2-dichloroethene	8.443	96	145269	48.96	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140729\
 Data File : N89162.D
 Acq On : 30 Jul 2014 1:26 am
 Operator : krystend
 Sample : ICV3306-50
 Misc : ms32328,MSN3306,,,,5,1
 ALS Vial : 35 Sample Multiplier: 1

Quant Time: Jul 30 12:19:44 2014
 Quant Method : C:\msdchem\1\methods\n140729w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Wed Jul 30 12:02:51 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) ethyl acetate	8.260	43	404918	50.14	ug/L	98
38) bromochloromethane	8.610	128	62219	49.24	ug/L	97
39) chloroform	8.641	83	258135	51.18	ug/L	100
41) Tetrahydrofuran	8.977	42	33003	41.84	ug/L	94
42) 1,1,1-trichloroethane	9.391	97	224982	54.94	ug/L	99
44) Cyclohexane	9.674	56	318230	59.65	ug/L	99
45) carbon tetrachloride	9.755	117	168082	57.39	ug/L	100
46) 1,1-dichloropropene	9.564	75	186580	52.17	ug/L	98
47) benzene	9.794	78	540793	48.86	ug/L	98
48) 1,2-dichloroethane	9.295	62	212806	46.49	ug/L	98
49) tert-amyl methyl ether	9.903	73	224126	41.57	ug/L	98
50) heptane	10.257	43	158654	57.43	ug/L	98
51) trichloroethene	10.409	95	158035	46.53	ug/L	97
52) 1,2-dichloropropane	10.377	63	195492	53.31	ug/L	99
53) dibromomethane	10.356	93	76444	47.11	ug/L	93
54) bromodichloromethane	10.466	83	199112	50.06	ug/L	98
55) Methylcyclohexane	10.922	83	236816	59.53	ug/L	98
56) 2-chloroethyl vinyl ether	10.377	63	195492	51.20	ug/L #	99
57) methyl methacrylate	10.554	69	64763	43.35	ug/L	96
58) 1,4-dioxane	10.568	88	4867	207.01	ug/L	81
59) cis-1,3-dichloropropene	11.081	75	204225	47.64	ug/L	99
61) 4-methyl-2-pentanone	11.173	43	122740	40.20	ug/L	99
62) toluene	11.859	92	339356	49.67	ug/L	97
63) trans-1,3-dichloropropene	11.498	75	146548	42.21	ug/L	99
64) 1,1,2-trichloroethane	11.671	83	101793	48.78	ug/L	96
65) ethyl methacrylate	11.866	69	124660	47.09	ug/L	99
67) tetrachloroethene	12.594	166	132632	51.62	ug/L	97
68) 1,3-dichloropropane	11.908	76	196760	45.36	ug/L	96
69) dibromochloromethane	12.198	129	127482	45.51	ug/L	97
70) 1,2-dibromoethane	12.452	107	106273	45.78	ug/L	96
71) 2-hexanone	12.028	43	80065	39.70	ug/L	99
72) chlorobenzene	13.280	112	352786	46.72	ug/L	99
73) 1,1,1,2-tetrachloroethane	13.195	131	134237	49.82	ug/L	99
74) ethylbenzene	13.446	91	676102	47.36	ug/L	100
75) m,p-xylene	13.633	106	469934	94.34	ug/L	99
76) o-xylene	14.047	106	239681	46.66	ug/L	98
77) styrene	13.973	104	387030	46.67	ug/L	99
78) bromoform	13.803	173	73490	41.93	ug/L	99
79) trans-1,4-dichloro-2-b...	14.192	53	13251	41.40	ug/L #	82
81) isopropylbenzene	14.407	105	622334	45.53	ug/L	99
83) bromobenzene	14.697	156	143754	44.96	ug/L	99
84) 1,1,2,2-tetrachloroethane	14.050	83	130901	41.46	ug/L	97
85) 1,2,3-trichloropropane	14.195	75	120863	41.17	ug/L	95
86) n-propylbenzene	14.849	91	817261	48.90	ug/L	99
87) 2-chlorotoluene	14.973	91	497611	44.90	ug/L	99
88) 4-chlorotoluene	15.047	91	519685	46.28	ug/L	100
89) 1,3,5-trimethylbenzene	15.129	105	583318	47.12	ug/L	100
90) tert-butylbenzene	15.433	91	374595	48.45	ug/L	99
91) 1,2,4-trimethylbenzene	15.535	105	575398	48.59	ug/L	98
92) sec-butylbenzene	15.652	105	748597	49.64	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140729\
 Data File : N89162.D
 Acq On : 30 Jul 2014 1:26 am
 Operator : krystend
 Sample : ICV3306-50
 Misc : ms32328,MSN3306,,,,5,1
 ALS Vial : 35 Sample Multiplier: 1

Quant Time: Jul 30 12:19:44 2014
 Quant Method : C:\msdchem\1\methods\n140729w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Wed Jul 30 12:02:51 2014
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93)	1,3-dichlorobenzene	15.762	146	283812	46.65	ug/L	98
94)	p-isopropyltoluene	15.822	119	596793	51.24	ug/L	100
95)	1,4-dichlorobenzene	15.829	146	264395	47.10	ug/L	99
96)	1,2-dichlorobenzene	16.193	146	272969	49.02	ug/L	98
97)	n-butylbenzene	16.239	91	608094	51.25	ug/L	97
98)	1,2-dibromo-3-chloropr...	16.674	75	19473	38.49	ug/L	96
99)	1,2,4-trichlorobenzene	18.021	180	90674	49.78	ug/L	100
100)	1,3,5-trichlorobenzene	17.480	180	184248	49.58	ug/L	100
101)	hexachlorobutadiene	18.307	225	98979	50.51	ug/L	98
102)	naphthalene	18.293	128	79184	44.09	ug/L	100
103)	1,2,3-trichlorobenzene	18.501	180	48242	48.09	ug/L	90
104)	2-methylnaphthalene	19.672	142	36308	25.41	ug/L #	100
105)	1-methylnaphthalene	19.919	142	28682	24.38	ug/L #	100

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

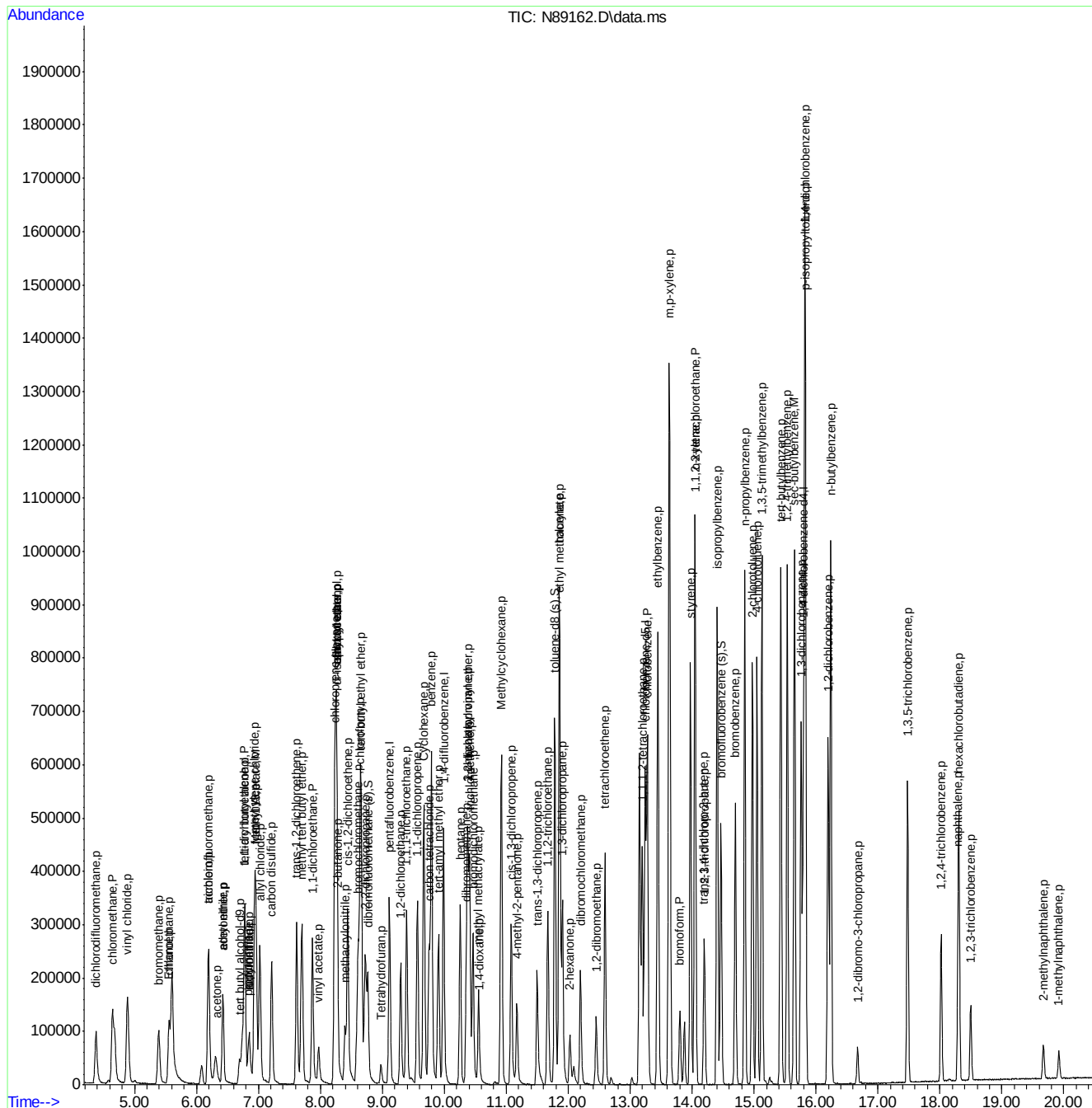
7.6.11

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89162.D
Acq On : 30 Jul 2014 1:26 am
Operator : krystend
Sample : ICV3306-50
Misc : ms32328,MSN3306,,,5,1
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Jul 30 12:19:44 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 12:02:51 2014
Response via : Initial Calibration



n140729w.m Wed Jul 30 12:21:45 2014

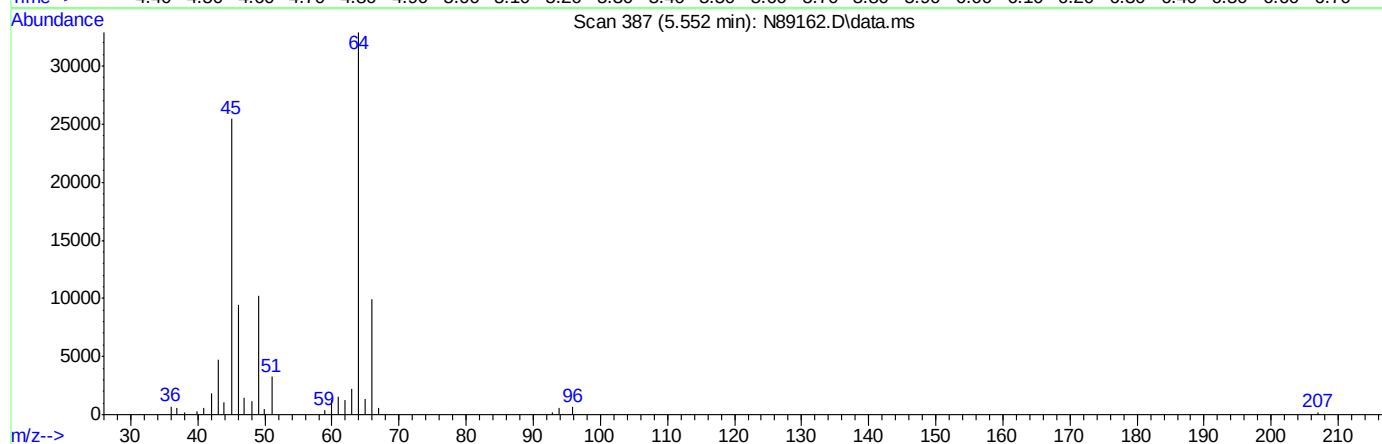
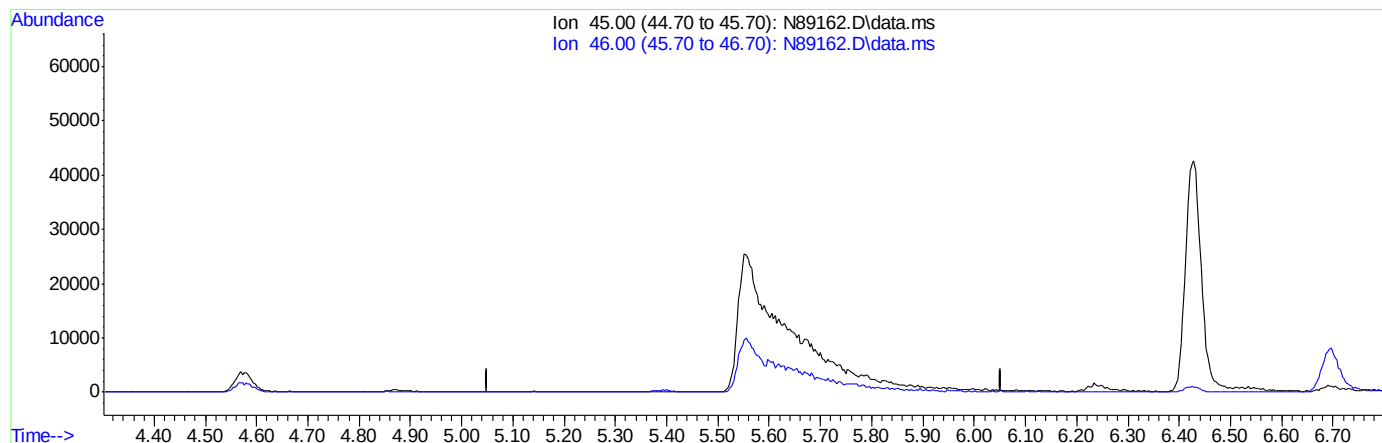
Page: 4

7.6.11

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89162.D
Acq On : 30 Jul 2014 1:26 am
Operator : krystend
Sample : ICV3306-50
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Jul 30 12:19:29 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 12:02:51 2014
Response via : Initial Calibration



(3) Ethanol (p)

5.552min (-5.552) 0.00ug/L

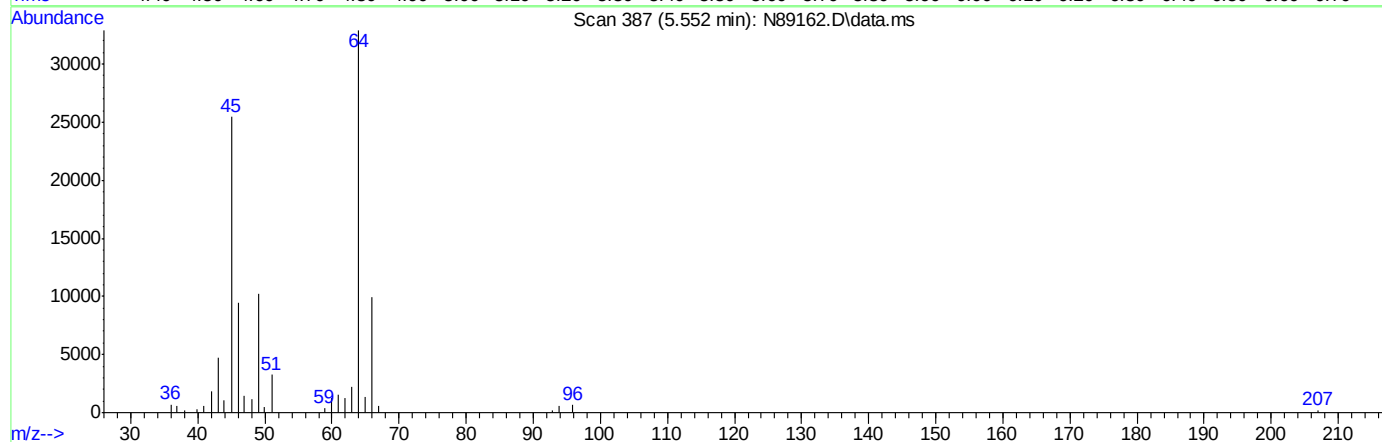
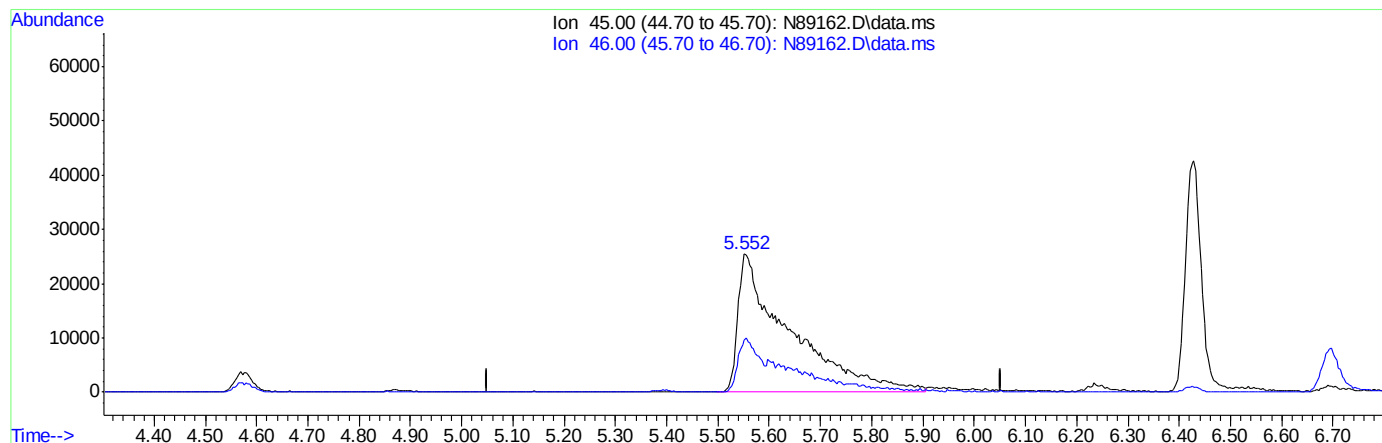
response 0

Ion	Exp%	Act%
45.00	100	0.00
46.00	36.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140729\
Data File : N89162.D
Acq On : 30 Jul 2014 1:26 am
Operator : krystend
Sample : ICV3306-50
Misc : ms32328,MSN3306,,,,5,1
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Jul 30 12:19:29 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 12:02:51 2014
Response via : Initial Calibration



(3) Ethanol (p)

5.552min (-0.000) 5134.54ug/L m

response 177512

Ion	Exp%	Act%
45.00	100	100
46.00	36.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140730\
 Data File : N89172.D
 Acq On : 30 Jul 2014 1:16 pm
 Operator : krystend
 Sample : bs
 Misc : ms32328,MSN3307,,,,5,1
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 30 14:05:48 2014
 Quant Method : C:\msdchem\1\methods\n140729w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Wed Jul 30 14:05:07 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.697	65	84762	500.00	ug/L	0.00
4) pentafluorobenzene	9.118	168	231223	50.00	ug/L	0.00
43) 1,4-difluorobenzene	9.988	114	357126	50.00	ug/L	0.00
66) chlorobenzene-d5	13.241	82	182108	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.797	152	149529	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.765	113	99608	40.98	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	81.96%		
60) toluene-d8 (s)	11.784	98	415104	44.69	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	89.38%		
82) bromofluorobenzene (s)	14.467	95	161358	39.14	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	78.28%		
Target Compounds						
					Qvalue	
2) tertiary butyl alcohol	6.782	59	146900	487.87	ug/L	# 100
3) Ethanol	5.558	45	225695m	5541.39	ug/L	
5) dichlorodifluoromethane	4.381	85	116377	44.64	ug/L	100
6) chloromethane	4.643	50	184732	48.74	ug/L	99
7) vinyl chloride	4.887	62	134000	50.93	ug/L	98
8) bromomethane	5.389	96	89098	53.72	ug/L	100
9) chloroethane	5.555	64	89947	43.89	ug/L	99
10) ethyl ether	6.428	59	136180	52.40	ug/L	99
11) acetonitrile	6.425	41	18236	50.02	ug/L	97
12) trichlorofluoromethane	6.198	101	178221	54.36	ug/L	99
13) freon-113	6.962	101	98682	56.97	ug/L	99
14) acrolein	6.198	56	81676	648.38	ug/L	100
15) 1,1-dichloroethene	6.782	96	98790	45.46	ug/L	93
16) acetone	6.333	58	15809	50.26	ug/L	98
17) Methyl Acetate	6.962	43	104917	53.83	ug/L	99
18) methylene chloride	6.937	84	126741	49.37	ug/L	99
19) methyl tert butyl ether	7.704	73	325696	57.44	ug/L	100
20) acrylonitrile	6.842	53	52936	53.62	ug/L	97
21) allyl chloride	7.026	41	211312	51.39	ug/L	99
22) trans-1,2-dichloroethene	7.616	96	122900	52.67	ug/L	99
23) iodomethane	6.852	142	90790	63.29	ug/L	99
24) carbon disulfide	7.220	76	342147	60.02	ug/L	99
25) propionitrile	6.845	54	1794	51.46	ug/L	100
26) vinyl acetate	7.973	43	214365	88.86	ug/L	100
27) chloroprene	8.231	53	226354	45.44	ug/L	97
28) di-isopropyl ether	8.263	45	601346	55.13	ug/L	97
29) methacrylonitrile	8.401	41	75291	47.88	ug/L	96
30) 2-butanone	8.288	72	11966	57.27	ug/L	# 37
31) Hexane	8.249	41	208894	61.73	ug/L	89
32) 1,1-dichloroethane	7.874	63	312621	51.40	ug/L	99
33) tert-butyl ethyl ether	8.659	59	347644	42.12	ug/L	99
34) isobutyl alcohol	8.259	43	431749	289.43	ug/L	96
35) 2,2-dichloropropane	8.730	77	175996	63.90	ug/L	100
36) cis-1,2-dichloroethene	8.440	96	143267	52.28	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140730\
 Data File : N89172.D
 Acq On : 30 Jul 2014 1:16 pm
 Operator : krystend
 Sample : bs
 Misc : ms32328,MSN3307,,,,5,1
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 30 14:05:48 2014
 Quant Method : C:\msdchem\1\methods\n140729w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Wed Jul 30 14:05:07 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) ethyl acetate	8.259	43	431749	57.88	ug/L	98
38) bromochloromethane	8.613	128	60773	52.07	ug/L	99
39) chloroform	8.645	83	252152	54.12	ug/L	98
41) Tetrahydrofuran	8.981	42	39750	54.55	ug/L	98
42) 1,1,1-trichloroethane	9.394	97	216625	57.05	ug/L	99
44) Cyclohexane	9.674	56	288541	58.55	ug/L	100
45) carbon tetrachloride	9.758	117	152102	56.34	ug/L	94
46) 1,1-dichloropropene	9.567	75	180896	54.76	ug/L	98
47) benzene	9.794	78	533556	52.19	ug/L	97
48) 1,2-dichloroethane	9.299	62	224154	53.01	ug/L	100
49) tert-amyl methyl ether	9.907	73	219856	44.15	ug/L	99
50) heptane	10.257	43	168836	66.16	ug/L	97
51) trichloroethene	10.409	95	156914	50.02	ug/L	99
52) 1,2-dichloropropane	10.377	63	194342	57.38	ug/L	100
53) dibromomethane	10.356	93	79173	52.82	ug/L	98
54) bromodichloromethane	10.465	83	196522	53.49	ug/L	99
55) Methylcyclohexane	10.922	83	215854	58.75	ug/L	97
56) 2-chloroethyl vinyl ether	10.377	63	194342	55.11	ug/L #	100
57) methyl methacrylate	10.554	69	75057	54.39	ug/L	98
58) 1,4-dioxane	10.561	88	6034	274.48	ug/L	91
59) cis-1,3-dichloropropene	11.081	75	213032	53.42	ug/L	98
61) 4-methyl-2-pentanone	11.173	43	148044	52.49	ug/L	99
62) toluene	11.858	92	329869	52.27	ug/L	98
63) trans-1,3-dichloropropene	11.498	75	158198	49.28	ug/L	99
64) 1,1,2-trichloroethane	11.671	83	104060	53.99	ug/L	99
65) ethyl methacrylate	11.869	69	141741	57.96	ug/L	99
67) tetrachloroethene	12.594	166	126437	56.12	ug/L	95
68) 1,3-dichloropropane	11.908	76	202240	53.16	ug/L	99
69) dibromochloromethane	12.194	129	129703	52.42	ug/L	99
70) 1,2-dibromoethane	12.449	107	110226	54.15	ug/L	98
71) 2-hexanone	12.028	43	98774	55.85	ug/L	100
72) chlorobenzene	13.276	112	341486	51.57	ug/L	99
73) 1,1,1,2-tetrachloroethane	13.195	131	130126	55.07	ug/L	97
74) ethylbenzene	13.446	91	650034	51.92	ug/L	99
75) m,p-xylene	13.633	106	456482	104.50	ug/L	99
76) o-xylene	14.047	106	227892	50.59	ug/L	99
77) styrene	13.972	104	369541	50.81	ug/L	98
78) bromoform	13.803	173	79352	51.38	ug/L	98
79) trans-1,4-dichloro-2-b...	14.195	53	20543	62.24	ug/L #	79
81) isopropylbenzene	14.404	105	582706	46.60	ug/L	98
83) bromobenzene	14.697	156	141242	48.29	ug/L	99
84) 1,1,2,2-tetrachloroethane	14.047	83	146918	50.87	ug/L	99
85) 1,2,3-trichloropropane	14.195	75	140146	52.19	ug/L	97
86) n-propylbenzene	14.849	91	783077	51.22	ug/L	98
87) 2-chlorotoluene	14.973	91	477307	47.08	ug/L	97
88) 4-chlorotoluene	15.047	91	494890	48.17	ug/L	100
89) 1,3,5-trimethylbenzene	15.125	105	561236	49.56	ug/L	99
90) tert-butylbenzene	15.429	91	352660	49.86	ug/L	99
91) 1,2,4-trimethylbenzene	15.535	105	556798	51.40	ug/L	98
92) sec-butylbenzene	15.652	105	704980	51.10	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140730\
Data File : N89172.D
Acq On : 30 Jul 2014 1:16 pm
Operator : krystend
Sample : bs
Misc : ms32328,MSN3307,,,,5,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 30 14:05:48 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 14:05:07 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93)	1,3-dichlorobenzene	15.761	146	277420	49.84	ug/L	99
94)	p-isopropyltoluene	15.821	119	569832	53.48	ug/L	99
95)	1,4-dichlorobenzene	15.825	146	261862	50.99	ug/L	98
96)	1,2-dichlorobenzene	16.193	146	274845	53.95	ug/L	96
97)	n-butylbenzene	16.239	91	601262	55.22	ug/L	99
98)	1,2-dibromo-3-chloropr...	16.670	75	24837	51.85	ug/L	84
99)	1,2,4-trichlorobenzene	18.017	180	106679	60.41	ug/L	99
100)	1,3,5-trichlorobenzene	17.480	180	187944	55.06	ug/L	99
101)	hexachlorobutadiene	18.307	225	95563	53.13	ug/L	97
102)	naphthalene	18.293	128	98685	54.69	ug/L	100
103)	1,2,3-trichlorobenzene	18.498	180	61575	60.39	ug/L	98
104)	2-methylnaphthalene	19.671	142	35479	27.14	ug/L #	100
105)	1-methylnaphthalene	19.915	142	29629	27.53	ug/L #	100

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

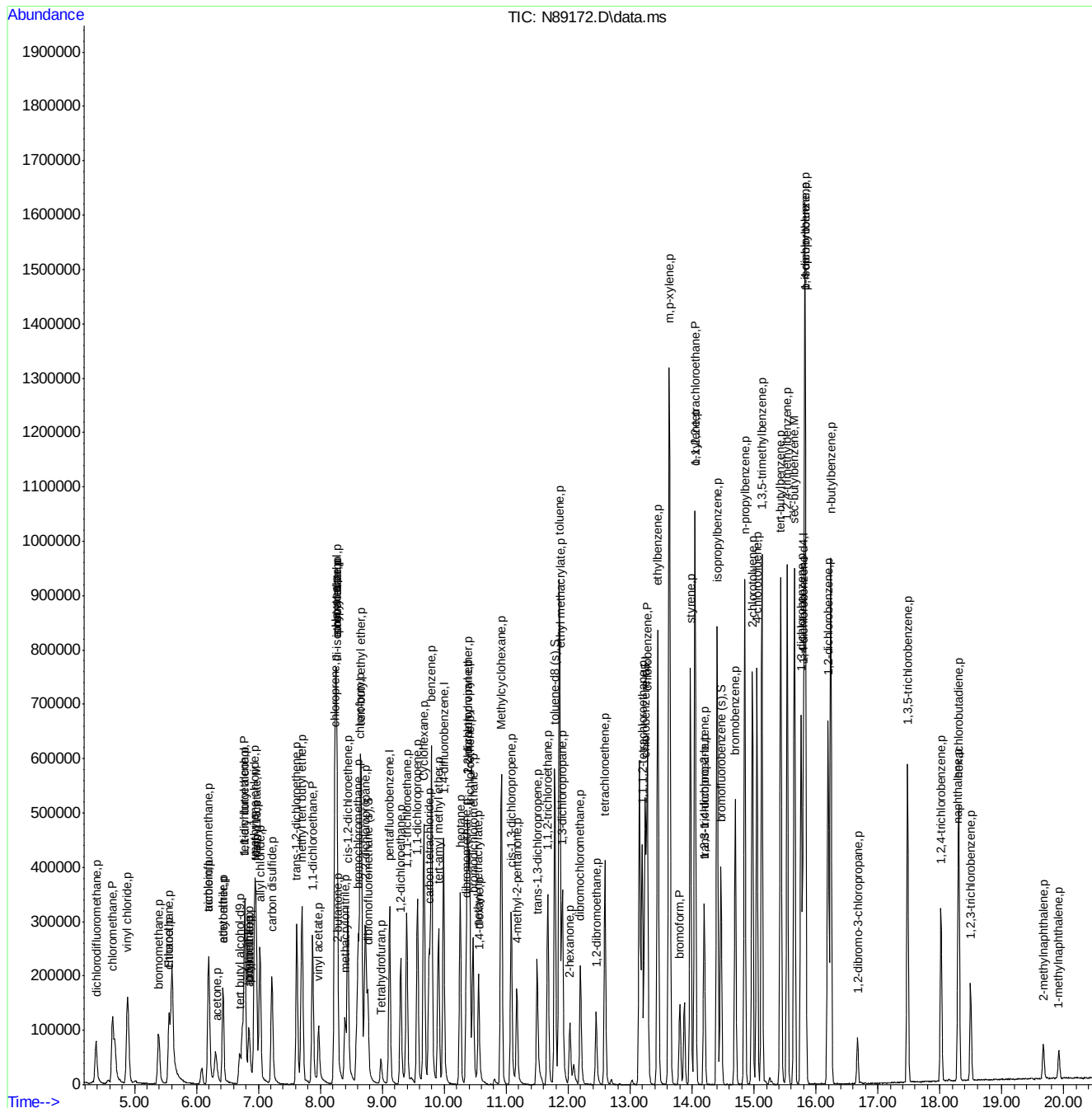
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Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140730\
Data File : N89172.D
Acq On : 30 Jul 2014 1:16 pm
Operator : krystend
Sample : bs
Misc : ms32328,MSN3307,,,5,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 30 14:05:48 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 14:05:07 2014
Response via : Initial Calibration



n140729w.m Wed Jul 30 14:09:45 2014

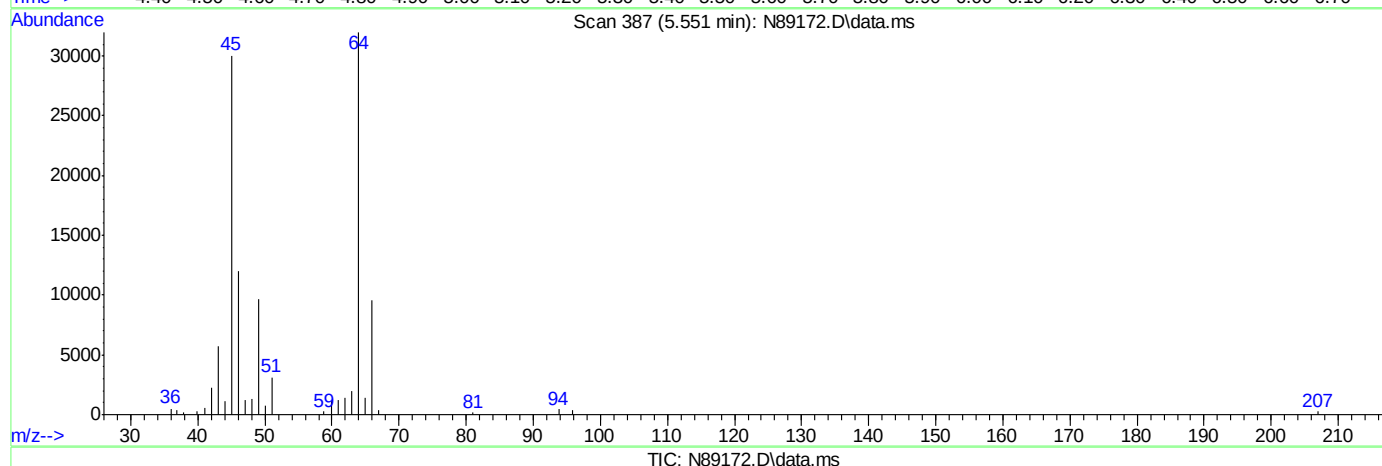
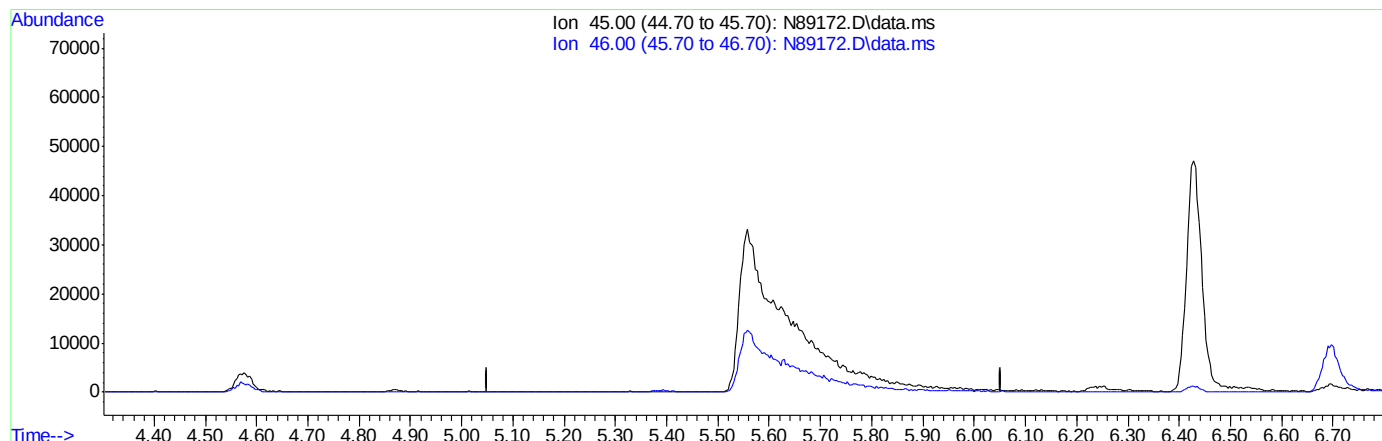
Page: 4

7.6.12

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140730\
Data File : N89172.D
Acq On : 30 Jul 2014 1:16 pm
Operator : krystend
Sample : bs
Misc : ms32328,MSN3307,,,,5,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 30 13:58:44 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 12:02:51 2014
Response via : Initial Calibration



(3) Ethanol (p)

5.552min (-5.552) 0.00ug/L

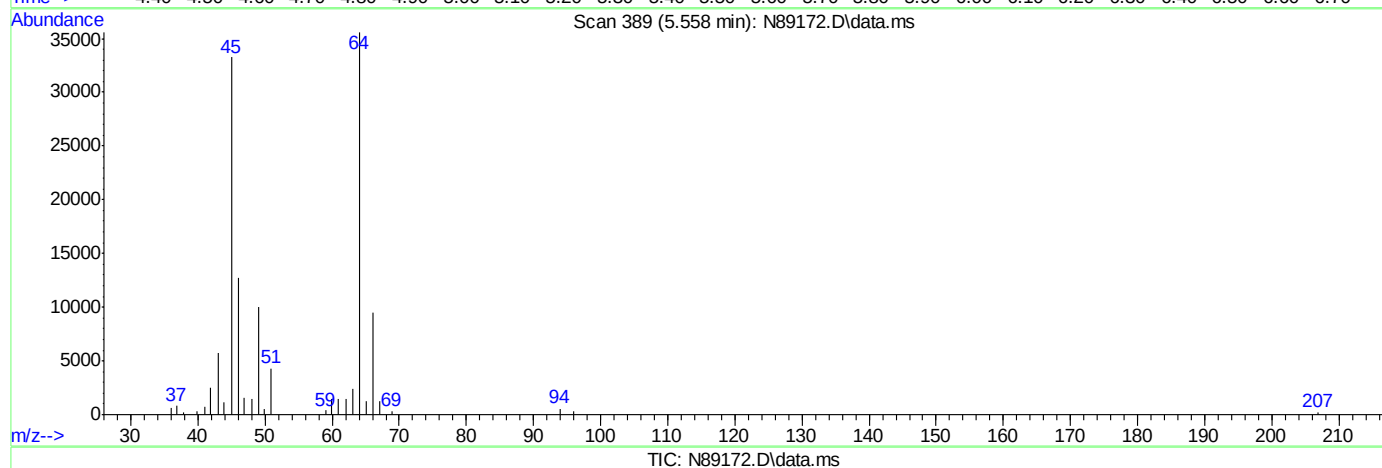
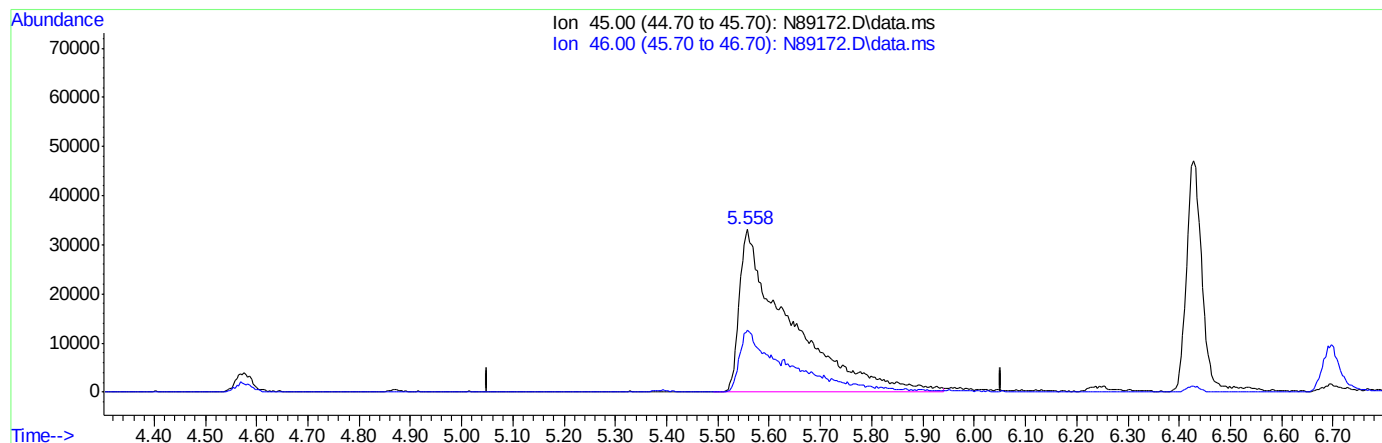
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Ion	Exp%	Act%
45.00	100	0.00
46.00	36.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140730\
Data File : N89172.D
Acq On : 30 Jul 2014 1:16 pm
Operator : krystend
Sample : bs
Misc : ms32328,MSN3307,,,,5,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 30 13:58:44 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 12:02:51 2014
Response via : Initial Calibration



(3) Ethanol (p)

5.558min (+0.006) 5511.69ug/L m

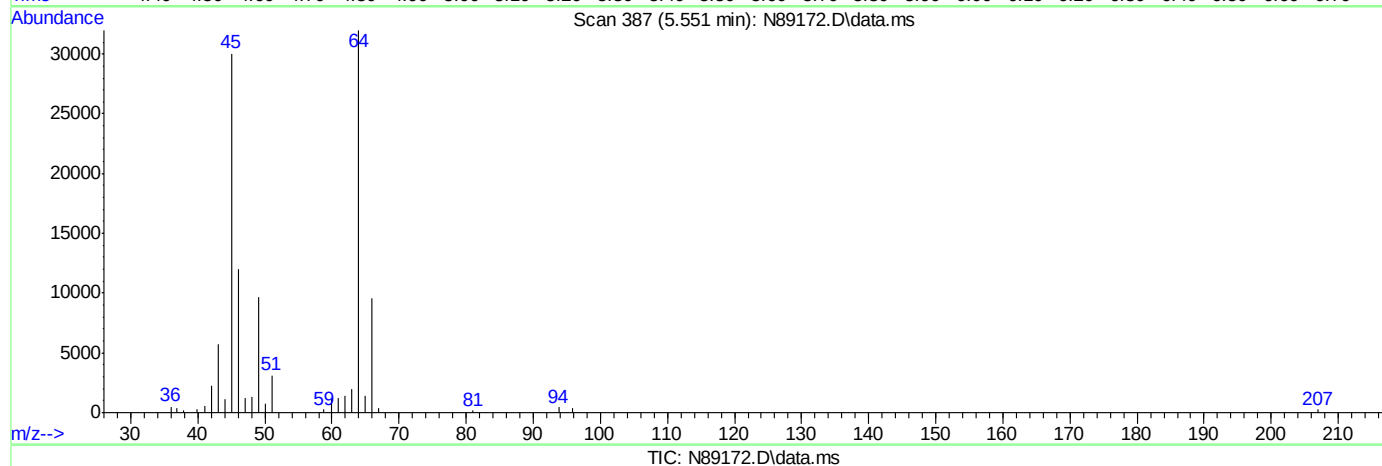
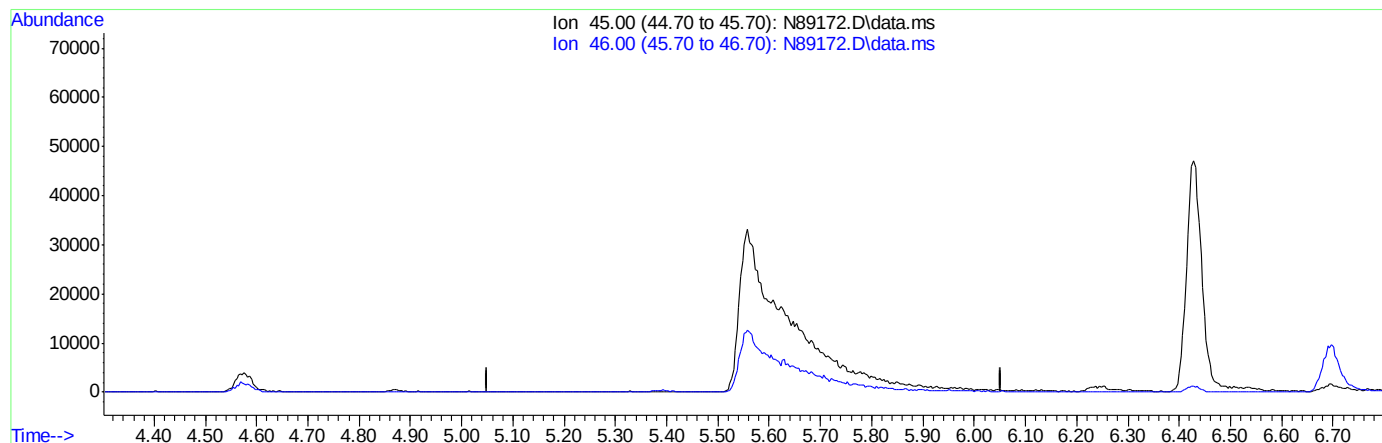
response 224485

Ion	Exp%	Act%
45.00	100	100
46.00	36.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140730\
Data File : N89172.D
Acq On : 30 Jul 2014 1:16 pm
Operator : krystend
Sample : bs
Misc : ms32328,MSN3307,,,,5,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 30 14:05:35 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 14:05:07 2014
Response via : Initial Calibration



(3) Ethanol (p)

5.552min (-5.552) 0.00ug/L

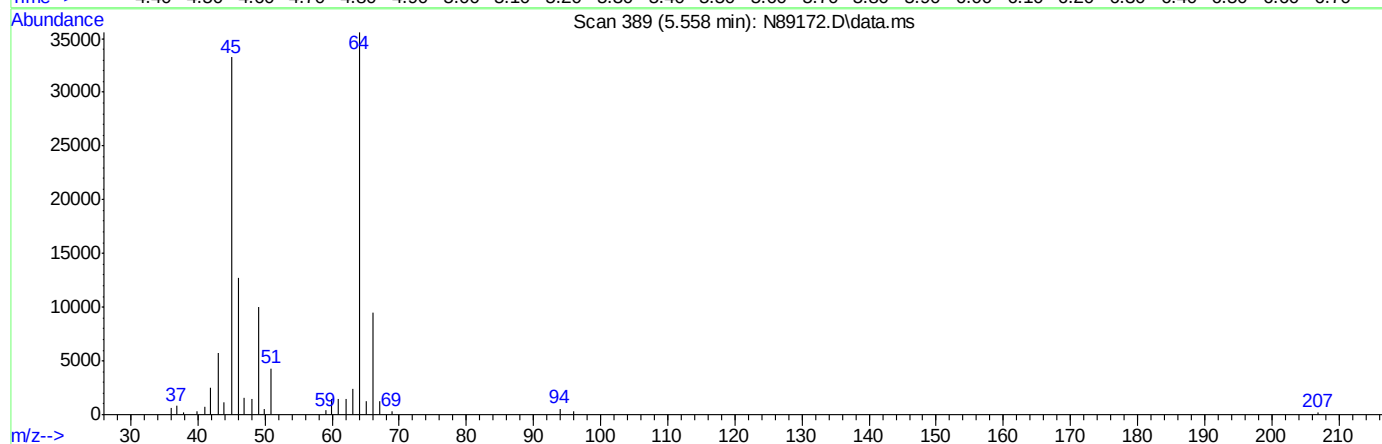
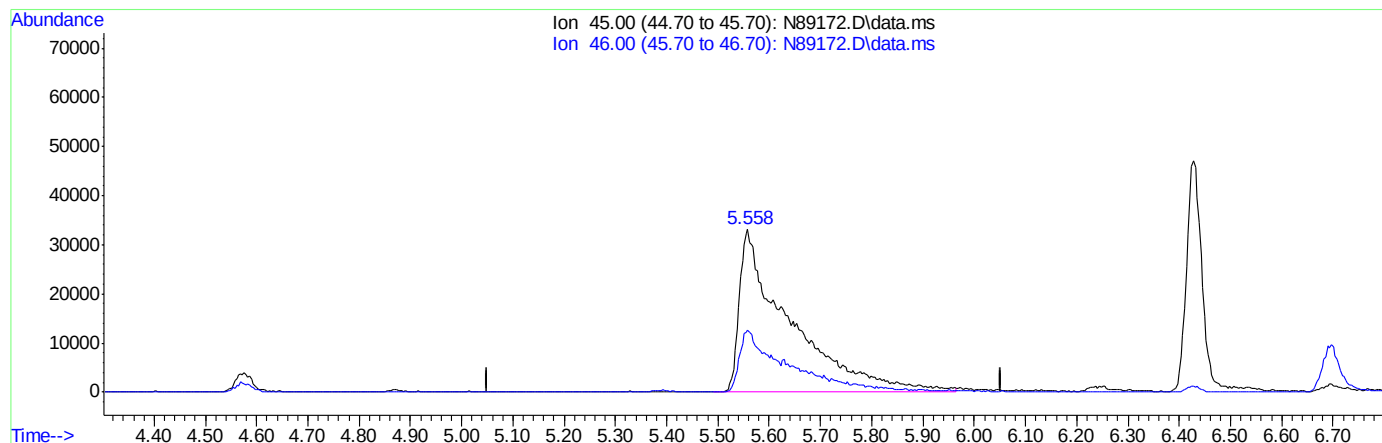
response 0

Ion	Exp%	Act%
45.00	100	0.00
46.00	36.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140730\
Data File : N89172.D
Acq On : 30 Jul 2014 1:16 pm
Operator : krystend
Sample : bs
Misc : ms32328,MSN3307,,,,5,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jul 30 14:05:35 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 14:05:07 2014
Response via : Initial Calibration



(3) Ethanol (p)

5.558min (+0.006) 5541.39ug/L m

response 225695

Ion	Exp%	Act%
45.00	100	100
46.00	36.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140731\
 Data File : N89202.D
 Acq On : 31 Jul 2014 10:49 am
 Operator : jaclynb
 Sample : cc3306-50
 Misc : ms32401,MSN3308,,,,5,1
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 31 11:28:57 2014
 Quant Method : C:\msdchem\1\methods\n140729w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Wed Jul 30 14:05:07 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.697	65	77777	500.00	ug/L	0.00
4) pentafluorobenzene	9.119	168	225750	50.00	ug/L	0.00
43) 1,4-difluorobenzene	9.988	114	352775	50.00	ug/L	0.00
66) chlorobenzene-d5	13.244	82	190844	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	15.800	152	152563	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.765	113	107445	45.28	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	90.56%		
60) toluene-d8 (s)	11.784	98	444153	48.41	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	96.82%		
82) bromofluorobenzene (s)	14.467	95	173276	41.19	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	82.38%		
Target Compounds						
					Qvalue	
2) tertiary butyl alcohol	6.785	59	148137	536.16	ug/L	# 100
3) Ethanol	5.551	45	207799m	5560.20	ug/L	
5) dichlorodifluoromethane	4.381	85	173228	68.06	ug/L	99
6) chloromethane	4.643	50	195236	52.76	ug/L	98
7) vinyl chloride	4.883	62	156792	61.03	ug/L	99
8) bromomethane	5.389	96	85577	52.84	ug/L	96
9) chloroethane	5.559	64	114664	57.30	ug/L	97
10) ethyl ether	6.428	59	132522	52.23	ug/L	99
11) acetonitrile	6.428	41	18227	51.20	ug/L	100
12) trichlorofluoromethane	6.195	101	222365	69.47	ug/L	100
13) freon-113	6.962	101	110444m	69.69	ug/L	
14) acrolein	6.195	56	73853	600.49	ug/L	100
15) 1,1-dichloroethene	6.778	96	110638	52.15	ug/L	99
16) acetone	6.333	58	15453	50.33	ug/L	100
17) Methyl Acetate	6.958	43	102326	53.77	ug/L	97
18) methylene chloride	6.937	84	132375	52.81	ug/L	98
19) methyl tert butyl ether	7.704	73	281594	50.87	ug/L	99
20) acrylonitrile	6.845	53	51688	53.63	ug/L	99
21) allyl chloride	7.026	41	227494	56.56	ug/L	99
22) trans-1,2-dichloroethene	7.620	96	129878	57.01	ug/L	96
23) iodomethane	6.852	142	94644	67.58	ug/L	99
24) carbon disulfide	7.217	76	309374	55.58	ug/L	99
25) propionitrile	6.842	54	1750	51.42	ug/L	100
26) vinyl acetate	7.973	43	155964	69.46	ug/L	99
27) chloroprene	8.235	53	287189	59.05	ug/L	97
28) di-isopropyl ether	8.263	45	593129	55.69	ug/L	100
29) methacrylonitrile	8.394	41	71222	46.39	ug/L	99
30) 2-butanone	8.288	72	12122	59.42	ug/L	# 58
31) Hexane	8.245	41	207709	62.87	ug/L	# 74
32) 1,1-dichloroethane	7.874	63	323405	54.43	ug/L	98
33) tert-butyl ethyl ether	8.659	59	254006	33.69	ug/L	98
34) isobutyl alcohol	8.259	43	424980	291.80	ug/L	95
35) 2,2-dichloropropane	8.726	77	179034	65.98	ug/L	99
36) cis-1,2-dichloroethene	8.443	96	145235	54.28	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140731\
 Data File : N89202.D
 Acq On : 31 Jul 2014 10:49 am
 Operator : jaclynb
 Sample : cc3306-50
 Misc : ms32401,MSN3308,,,,5,1
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 31 11:28:57 2014
 Quant Method : C:\msdchem\1\methods\n140729w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Wed Jul 30 14:05:07 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) ethyl acetate	8.259	43	424980	58.36	ug/L	97
38) bromochloromethane	8.613	128	62518	54.86	ug/L	97
39) chloroform	8.645	83	255904	56.26	ug/L	98
41) Tetrahydrofuran	8.981	42	36924	51.90	ug/L	95
42) 1,1,1-trichloroethane	9.394	97	223704	60.02	ug/L	98
44) Cyclohexane	9.670	56	314528	64.61	ug/L	100
45) carbon tetrachloride	9.755	117	173943	64.23	ug/L	100
46) 1,1-dichloropropene	9.568	75	193046	59.16	ug/L	97
47) benzene	9.794	78	554316	54.89	ug/L	98
48) 1,2-dichloroethane	9.299	62	219101	52.46	ug/L	100
49) tert-amyl methyl ether	9.903	73	161741	32.88	ug/L	97
50) heptane	10.257	43	174754	69.33	ug/L	98
51) trichloroethene	10.409	95	160523	51.80	ug/L	98
52) 1,2-dichloropropane	10.377	63	194733	58.21	ug/L	100
53) dibromomethane	10.359	93	78859	53.26	ug/L	98
54) bromodichloromethane	10.466	83	209243	57.66	ug/L	100
55) Methylcyclohexane	10.922	83	242043	66.69	ug/L	96
56) 2-chloroethyl vinyl ether	10.377	63	194733	55.90	ug/L	# 99
57) methyl methacrylate	10.554	69	73055	53.59	ug/L	95
58) 1,4-dioxane	10.565	88	6003	276.37	ug/L	84
59) cis-1,3-dichloropropene	11.081	75	217609	55.12	ug/L	99
61) 4-methyl-2-pentanone	11.173	43	145092	52.08	ug/L	99
62) toluene	11.858	92	348425	55.89	ug/L	97
63) trans-1,3-dichloropropene	11.501	75	170561	53.76	ug/L	99
64) 1,1,2-trichloroethane	11.671	83	107470	56.45	ug/L	98
65) ethyl methacrylate	11.869	69	139585	57.79	ug/L	99
67) tetrachloroethene	12.594	166	135606	57.43	ug/L	96
68) 1,3-dichloropropane	11.908	76	205626	51.58	ug/L	97
69) dibromochloromethane	12.198	129	138338	53.30	ug/L	94
70) 1,2-dibromoethane	12.456	107	110018	51.57	ug/L	98
71) 2-hexanone	12.025	43	95829	51.71	ug/L	100
72) chlorobenzene	13.280	112	358406	51.64	ug/L	99
73) 1,1,1,2-tetrachloroethane	13.195	131	137950	55.71	ug/L	99
74) ethylbenzene	13.449	91	699559	53.32	ug/L	99
75) m,p-xylene	13.633	106	483588	105.64	ug/L	99
76) o-xylene	14.047	106	246753	52.27	ug/L	99
77) styrene	13.973	104	393556	51.63	ug/L	98
78) bromoform	13.803	173	80938	50.04	ug/L	93
79) trans-1,4-dichloro-2-b...	14.195	53	18126	55.11	ug/L	93
81) isopropylbenzene	14.404	105	655829	51.41	ug/L	98
83) bromobenzene	14.701	156	149467	50.08	ug/L	96
84) 1,1,2,2-tetrachloroethane	14.047	83	152009	51.59	ug/L	95
85) 1,2,3-trichloropropane	14.195	75	137112	50.04	ug/L	97
86) n-propylbenzene	14.849	91	811053	51.99	ug/L	100
87) 2-chlorotoluene	14.973	91	511723	49.47	ug/L	100
88) 4-chlorotoluene	15.047	91	532806	50.83	ug/L	100
89) 1,3,5-trimethylbenzene	15.129	105	580451	50.24	ug/L	99
90) tert-butylbenzene	15.429	91	374603	51.91	ug/L	97
91) 1,2,4-trimethylbenzene	15.535	105	570163	51.58	ug/L	100
92) sec-butylbenzene	15.652	105	762989	54.20	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140731\
 Data File : N89202.D
 Acq On : 31 Jul 2014 10:49 am
 Operator : jaclynb
 Sample : cc3306-50
 Misc : ms32401,MSN3308,,,,5,1
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 31 11:28:57 2014
 Quant Method : C:\msdchem\1\methods\n140729w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Wed Jul 30 14:05:07 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,3-dichlorobenzene	15.761	146	294958	51.94	ug/L	98
94) p-isopropyltoluene	15.825	119	604648	55.62	ug/L	99
95) 1,4-dichlorobenzene	15.829	146	275477	52.58	ug/L	98
96) 1,2-dichlorobenzene	16.193	146	284666	54.76	ug/L	98
97) n-butylbenzene	16.239	91	633727	56.98	ug/L	99
98) 1,2-dibromo-3-chloropr...	16.674	75	22760	47.04	ug/L	93
99) 1,2,4-trichlorobenzene	18.020	180	109060	60.50	ug/L	99
100) 1,3,5-trichlorobenzene	17.476	180	195697	56.15	ug/L	99
101) hexachlorobutadiene	18.303	225	100608	54.72	ug/L	98
102) naphthalene	18.293	128	99713	54.33	ug/L	100
103) 1,2,3-trichlorobenzene	18.498	180	64390	61.40	ug/L	95
104) 2-methylnaphthalene	19.671	142	34919	26.18	ug/L #	100
105) 1-methylnaphthalene	19.922	142	29038	26.44	ug/L #	100

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

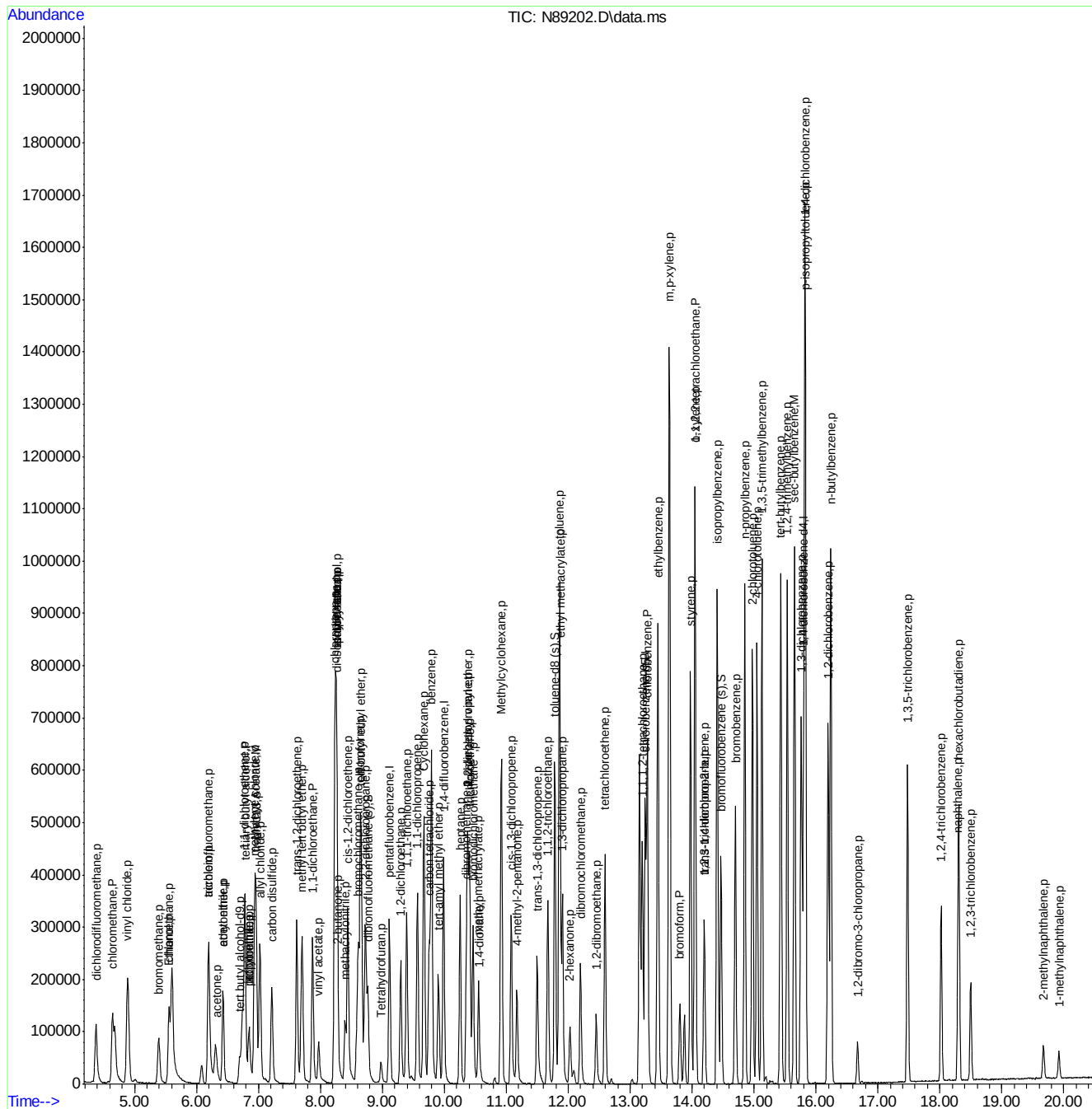
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Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\N140731\
Data File : N89202.D
Acq On : 31 Jul 2014 10:49 am
Operator : jaclynb
Sample : cc3306-50
Misc : ms32401,MSN3308,,,,5,1
ALS Vial : 20 Sample Multiplier: 1

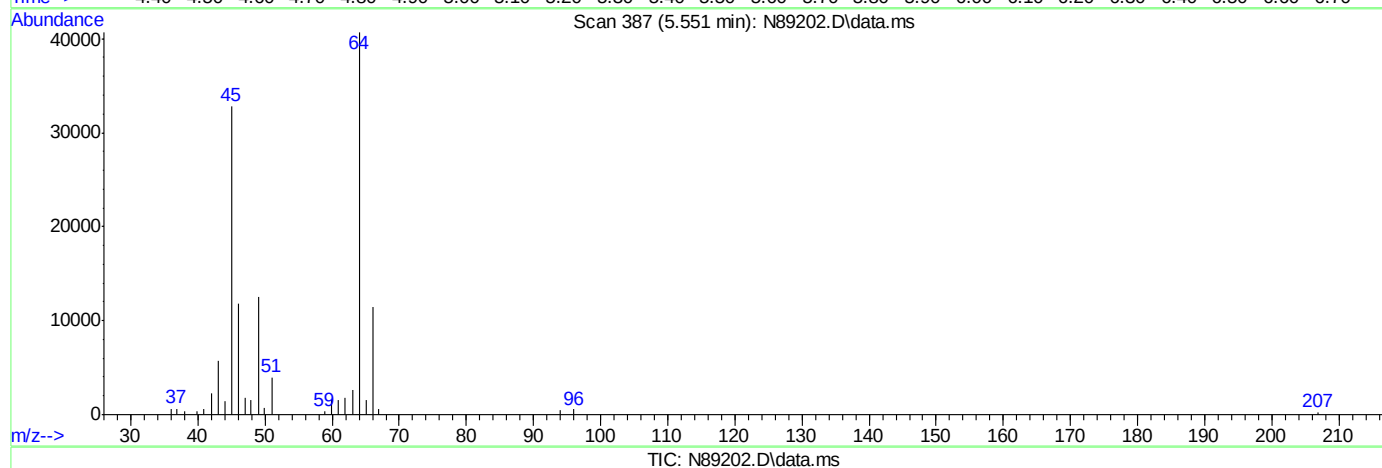
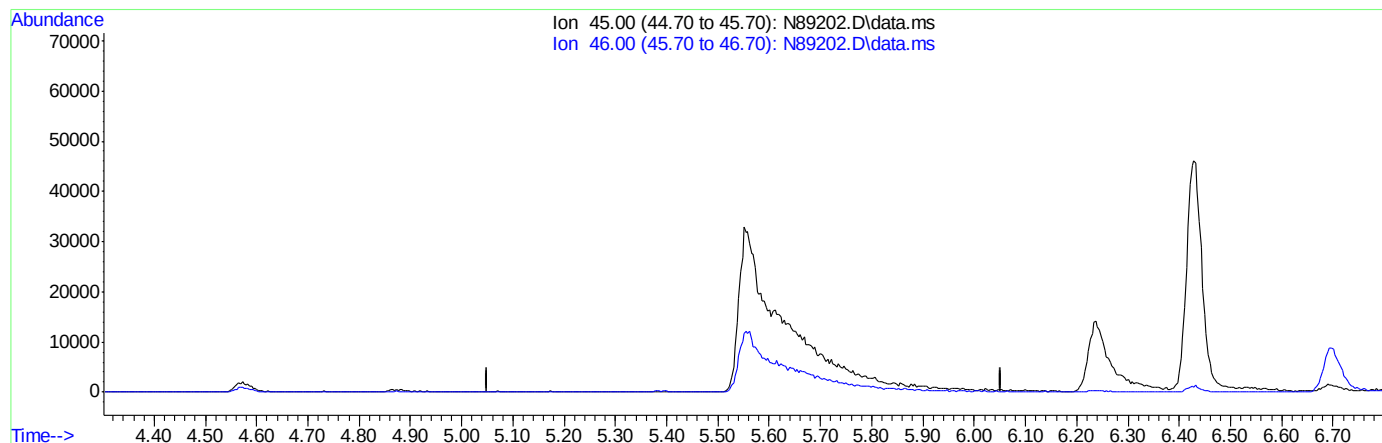
Quant Time: Jul 31 11:28:57 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 14:05:07 2014
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140731\
Data File : N89202.D
Acq On : 31 Jul 2014 10:49 am
Operator : jaclynb
Sample : cc3306-50
Misc : ms32401,MSN3308,,,,5,1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 31 11:16:27 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 14:05:07 2014
Response via : Initial Calibration



(3) Ethanol (p)

5.552min (-5.552) 0.00ug/L

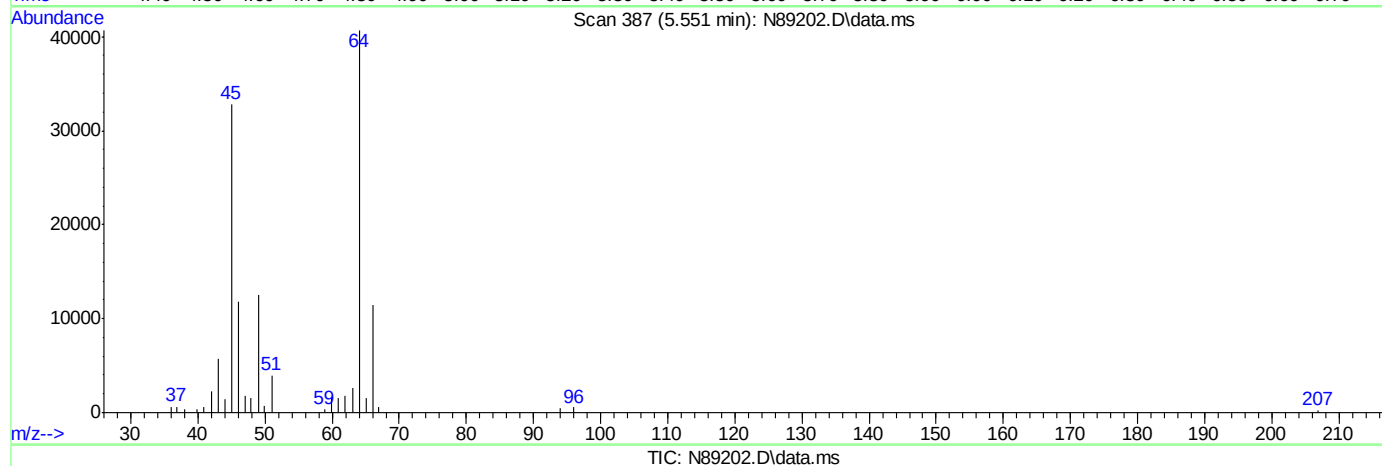
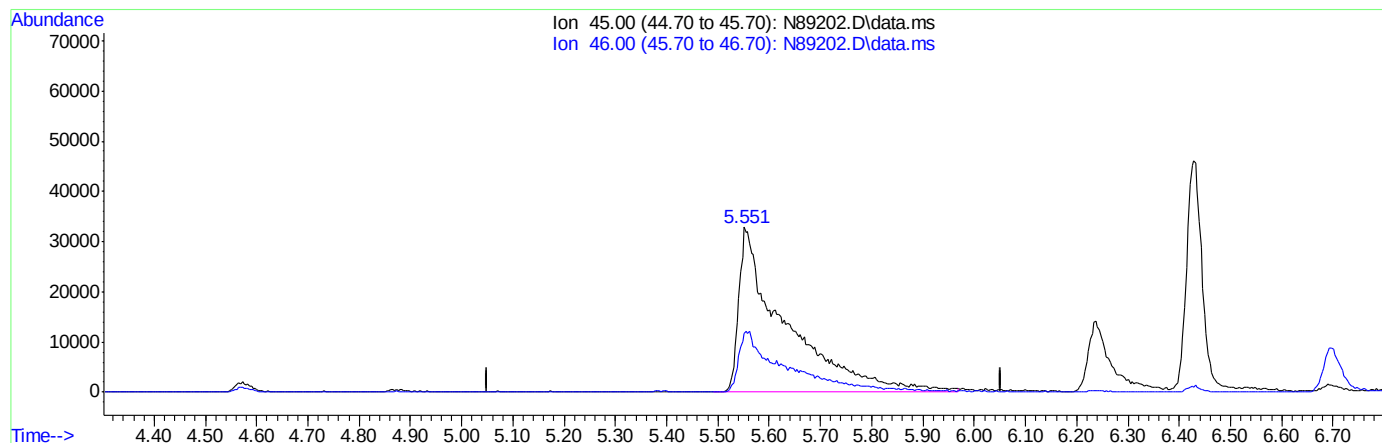
response 0

Ion	Exp%	Act%
45.00	100	0.00
46.00	36.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140731\
Data File : N89202.D
Acq On : 31 Jul 2014 10:49 am
Operator : jaclynb
Sample : cc3306-50
Misc : ms32401,MSN3308,,,,5,1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 31 11:16:27 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 14:05:07 2014
Response via : Initial Calibration



(3) Ethanol (p)

5.551min (-0.001) 5560.20ug/L m

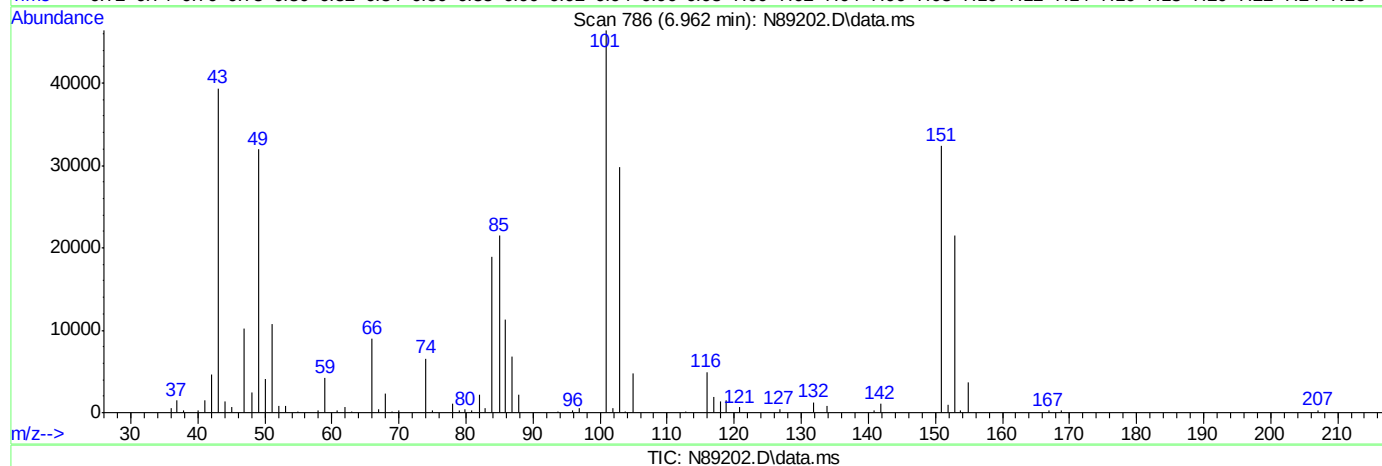
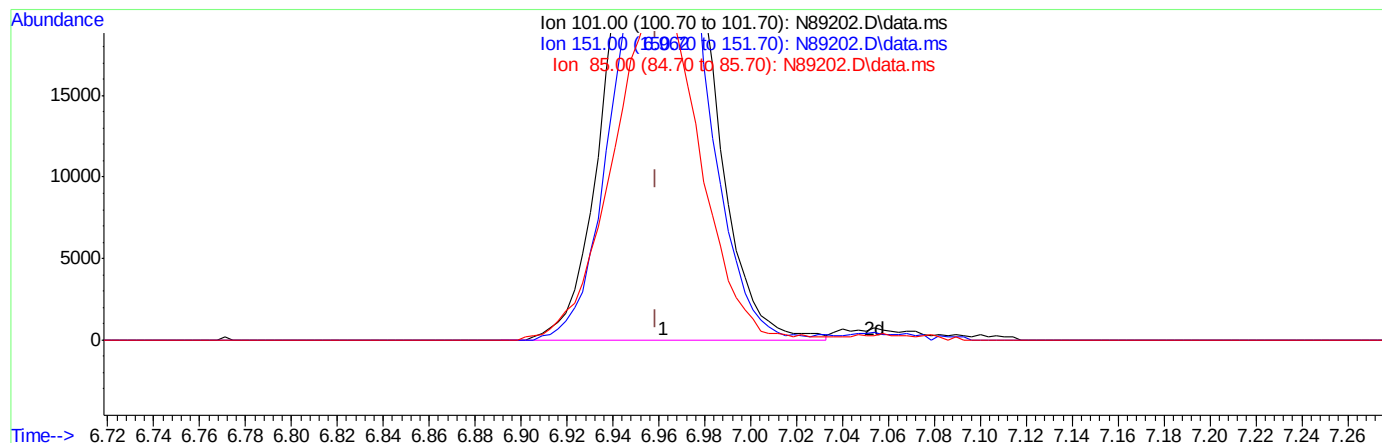
response 207799

Ion	Exp%	Act%
45.00	100	100
46.00	36.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140731\
Data File : N89202.D
Acq On : 31 Jul 2014 10:49 am
Operator : jaclynb
Sample : cc3306-50
Misc : ms32401,MSN3308,,,,5,1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 31 11:16:27 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 14:05:07 2014
Response via : Initial Calibration



(13) freon-113 (p)

6.962min (+0.003) 70.05ug/L

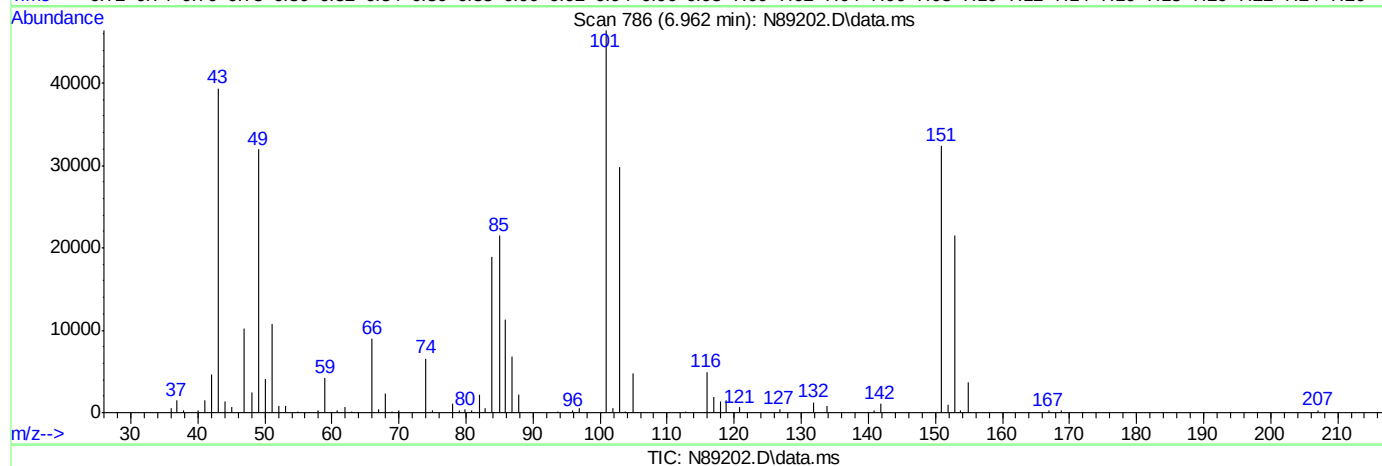
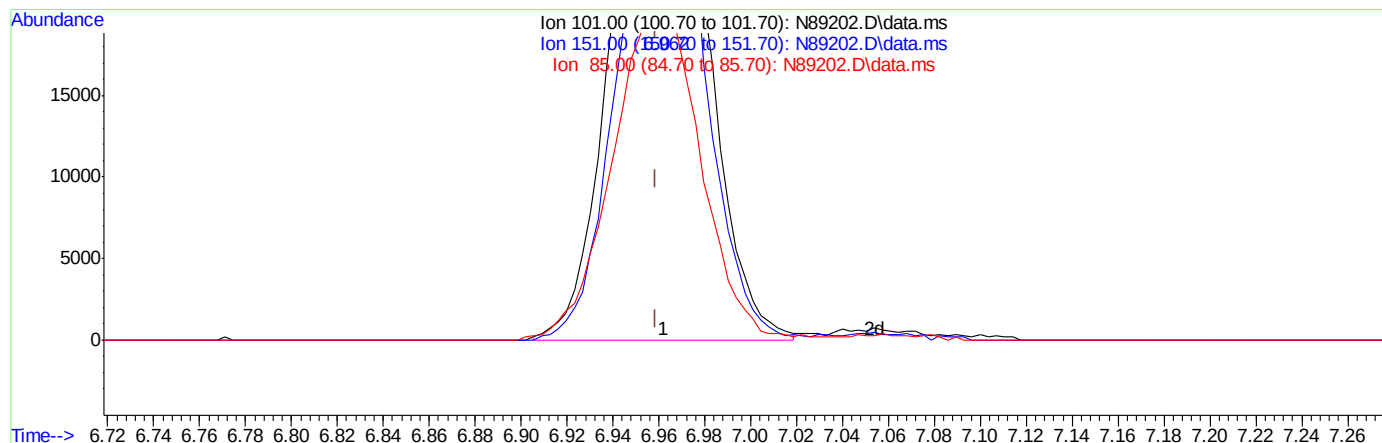
response 110800

Ion	Exp%	Act%
101.00	100	100
151.00	73.30	69.74
85.00	45.30	46.23
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\N140731\
Data File : N89202.D
Acq On : 31 Jul 2014 10:49 am
Operator : jaclynb
Sample : cc3306-50
Misc : ms32401,MSN3308,,,,5,1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jul 31 11:16:27 2014
Quant Method : C:\msdchem\1\methods\n140729w.m
Quant Title : SW-846 Method 8260
QLast Update : Wed Jul 30 14:05:07 2014
Response via : Initial Calibration



(13) freon-113 (p)

6.962min (+0.003) 69.69ug/L m

response 110444

Ion	Exp%	Act%
101.00	100	100
151.00	73.30	69.74
85.00	45.30	46.23
0.00	0.00	0.00

VOLATILE ORGANICS BY GC/MS ANALYSIS LOG

Standards Data

Lot #	Description	Conc
MS9818	8260 CC (3)	200 ~~ML~~ / ML
839	CC90S(1)	200
791	BS (3)	200
784	BS90S(2)	200
840	IS	125
811	SS	200

Daily Saved File

Tune file 1: N89149
Tune file 2: NA
Initial Cal: 7/29/14
ID File: N140729 W.M
ICAL Verified: KD
Sequence verified: KD

Date: 7/29/14

Batch ID: MSN3306

Analysts KD

Signature: *[Signature]*

*Note: If sample matrix is soil - method SW846 5035 used for preparation. SW846 5030 is purge and trap method for soil and water

pH paper LOT#202513 exp: 1/15/2016

Data File	Sample ID	Bot No.	Work Group	Test	ALS #	*MTX	Samp Amt.	% Sol	Dil. Fact.	pH	Comments
N89142-48	Blank	NA	NA	NA	15-21	NA	5mL	NA	1:1	NA	-
49	bfb	↓	MS9811	8260W	22						✓✓
* 50	IC3306-0.5	3,1	MS9818/839	CURVE	23						✓✓
* 51	-1				24						✓✓
* 52	-2				25						✓✓
* 53	-5				26						✓✓
* 54	-10				27						✓✓
55	↓ -25				28						✓✓
56	IC3306-50				29						✓✓
57	IC3306-100				30						✓✓
58	↓ -200				31						✓✓
59	↓ -400	↓	↓		32						✓✓
60	Blank	NA	NA		33						-
61	↓	↓	↓		34						-
62	ICV3306-50	3,2	MS9791/784		35						✓✓
63	↓	↓	↓		36						
64	Blank	NA	NA		37						-
65	↓	↓	↓	↓	38	↓	↓	↓	↓	↓	-
7/29/14 (KD)											

MTX = Matrix: Designate W for water, S for soil, O for oil.

Sample amount is reported in grams (wet) for soil and oil, mls for water.

MS001-05 Date: 07/22/13

Review: *[Signature]*

VOLATILE ORGANICS BY GC/MS ANALYSIS LOG

Standards Data

Lot #	Description	Conc
MS9818	8260CC	200ug/mL
839	CCgas	200
791	BS	200
784	BSgas	200
799	ISPS	125

Daily Saved File

Tune file 1: N89172
Tune file 2: NA
Initial Cal: 7-29-14
ID File: N140729W.M
ICAL Verified: KD
Sequence verified: KB

Date: 7/30/14

Batch ID: MSN3307

Analysts KD

Signature: *[Signature]*

*Note: If sample matrix is soil - method SW846 5035 used for preparation. SW846 5030 is purge and trap method for soil and water

pH paper LOT#202513 exp: 1/15/2016

Data File	Sample ID	Bot No.	Work Group	Test	ALS #	*MTX	Samp Amt.	% Sol	Dil. Fact.	pH	Comments
N89170	blank	NA	NA	NA	15	NA	5mL	NA	1:1	NA	-
71	CC3306-50	3,1	MS9818/839		16						-
72	BS (CC)	3,2	MS9911/784		17						VV
73	iblk	NA	NA		18						-
74	mb	↓	↓	↓	19	↓					VV
75	MC32337-1	4	MS32386	RCP	20	WW			↓	2	VV
76	MC32389-8A	NA	MS32394	SPLP	21	SO			1:5	NA	VV matrix
77	-9A				22						VV
78	-11A				23						VV
79	↓ -12A	↓	↓	↓	24	↓			↓		VV
80	MC32218-1	1	MS32401	SL	25	WTB			1:1	2	✓✓ J!
81	MC32359-5	1		RCP	26	↓					✓✓
82	MC32373-4	1		TCL42	27	↓					✓✓ J!
83	MC32218-2	1		SL	28	FW					✓✓
84	MC32218-3	1			29						✓✓
85	↓ -4	2			30						✓✓
86	↓ -5	2		↓	31						✓✓
87	MC32359-3	10		RCP	32	*					✓✓
88	↓ -4	9			33						✓✓
89	↓ -1	9			34				↓		✓✓
90	↓ -2	9			35				1:2		RR:1:10.0
91	MC32361-2	7		↓	36				1:50		↓ J!
92	MC32373-2	1		TCL42	37				↓		↓ J!
93	MC32218-2MS	2,4,6		SL	38				1:1		✓✓
94	↓ -2MSD	2,4,6	↓	↓	39	↓			↓		✓✓
95	Blank	NA	NA	NA	40	NA				NA	✓
96	↓	↓	↓	↓	41	↓			↓		✓
7/30/14 (KD)											

MTX = Matrix: Designate W for water, S for soil, O for oil.

Sample amount is reported in grams (wet) for soil and oil, mls for water.

MS001-05 Date: 07/22/13

Review: *[Signature]*

Standards Data

Lot #	Description	Conc
MS818	8260 CC	200 µg/ml
839	ccgas	
791	bs	
784	bsgas	
799	IS/SS	100 µg/ml

Daily Saved File

Tune file 1:	N89202
Tune file 2:	
Initial Cal:	7/29/14
ID File:	N140729
ICAL Verified:	KD
Sequence verified:	KD

Date: 7/31/14

Batch ID: MSN3308

Analysts: JSB

Signature: JSB

*Note: If sample matrix is soil - method SW846 5035 used for preparation. SW846 5030 is purge and trap method for soil and water

pH paper LOT#02513 exp: 1/15/2016

Data File	Sample ID	Bot No.	Work Group	Test	ALS #	*MTX	Samp Amt.	% Sol	Dil. Fact.	pH	Comments
N89197	1b1K	N/A	N/A	8260	15	N/A	5mL	N/A	1:1	N/A	✓
198	CC3306-50	3,1	MS818 3 MS3306 3 MS3306 3		16						↑
199	bs	3,2	MS3306 3 MS3306 3		17						Remake QC
200	bsd	1	1		18						1
201	1b1K	N/A	N/A		19						✓
202	CC3306-50	3,1	MS818 3 MS3306 3 MS3306 3		20						bpbvv
203	bs	3,2	MS3306 3 MS3306 3		21						✓✓
204	bsd	1	1		22						✓✓
205	1b1K	N/A	N/A		23						✓
206	mb	1	1		24						✓✓
207	MC32359-2	12	MS32401	RCP	25	GW				2	✓✓
208	MC32361-2	8	1		26						✓✓
209	MS32373-2	2	1	TCL42	27						✓✓
210	MC32252-11	2	MS32401	STD, MTBE	28						✓✓
211	-13	3			29						✓✓
212	-14	2			30						✓✓
213	-16	2			31						✓✓
214	-15	2			32						✓✓
215	MC32376-1	2		STD, MTBE	33						✓✓
216	-2	3			34						✓✓
217	-3	3			35						✓✓
218	MC32476-1	1		SL	36						✓✓
219	-2	3			37						✓✓
220	-3	1			38						✓✓
221	-4	3			39						✓✓
222	-5	1			40						✓✓
223	MC32428-1	3		STD, MTBE	41						✓✓
224	MC32476-6	1		SL	42	1ml		1:5	72		low vol. high sediment
225	-7	1			43	5mL		1:1	2		✓✓
226	MC32452-11ms	1		STD, MTBE	44	1mL		1:5			✓✓
227	-11msd	1			45						✓✓

*MTX = Matrix: Designate W for water, S for soil, O for oil.

Sample amount is reported in grams (wet) for soil and oil, mls for water.

48001-05 Date: 07/22/13

Review: JSB

Metals Analysis

QC Data Summaries

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Includes the following where applicable:

- Instrument Runlogs
- Initial and Continuing Calibration Blanks
- Initial and Continuing Calibration Checks
- High and Low Check Standards
- Interfering Element Check Standards
- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: MC32373

Account: WSPVAR - WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB073014M1.ICP

Date Analyzed: 07/30/14

Methods: SW846 6010C

Analyst: EAL

Run ID: MA17395

Parameters: Ba

Time	Sample Description	Dilution Factor	PS Recov	Comments
11:55	MA17395-STD1	1		STD1
12:01	MA17395-STD2	1		STD2
12:07	MA17395-ICV1	1		
12:12	MA17395-ICB1	1		
12:18	MA17395-CCV1	1		
12:23	MA17395-CCB1	1		
12:29	MA17395-CRIB1	1		
12:35	MA17395-ICSA1	1		
12:40	MA17395-ICSAB1	1		
12:46	MP23418-B1	1		
12:52	MP23418-MB1	1		
12:57	MP23418-S1	1		
13:03	MP23418-S2	1		
13:08	MC32380-4	1		(sample used for QC only; not part of login MC32373)
13:14	MP23418-SD1	5		
13:20	MP23418-LB1	1		
13:26	MA17395-CCV2	1		
13:31	MA17395-CCB2	1		
13:37	MP23418-LS1	1		
13:42	ZZZZZZ	1		
13:48	MP23418-LS2	1		
13:54	ZZZZZZ	1		
13:59	ZZZZZZ	1		
14:05	ZZZZZZ	1		
14:11	ZZZZZZ	1		
14:16	ZZZZZZ	1		
14:22	ZZZZZZ	2		
14:29	ZZZZZZ	3		
14:40	MA17395-CCV3	1		
14:45	MA17395-CCB3	1		
14:51	ZZZZZZ	5		
14:57	ZZZZZZ	1		
15:03	MA17395-CRIB2	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: MC32373

Account: WSPVAR - WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB073014M1.ICP

Date Analyzed: 07/30/14

Methods: SW846 6010C

Analyst: EAL

Run ID: MA17395

Parameters: Ba

Time	Sample Description	Dilution Factor	PS Recov	Comments
15:08	MA17395-CRI1	1		
15:14	MP23411-B1	1		
15:19	ZZZZZZ	1		DNR: BAD INJECTION, SEE RERUN.
15:25	MP23411-S1	1		
15:30	MP23411-S2	1		
15:36	MC32361-3	1		(sample used for QC only; not part of login MC32373)
15:42	MP23411-SD1	5		
15:47	MA17395-CCV4	1		
15:53	ZZZZZZ	1		DNR: CARRY OVER, SEE RERUN FOR CCB.
16:00	MA17395-CCB4	1		
16:12	MP23411-B2	1		
16:18	MP23411-MB2	1		
16:24	MP23411-MB1	1		
16:28	MA17395-CRI2	1		
16:34	MA17395-ICSA2	1		
16:39	MA17395-ICSAB2	1		
16:45	MA17395-CCV5	1		
16:50	MA17395-CCB5	1		
16:56	MC32373-1	1		
17:02	MC32373-5	1		
17:08	MC32373-8	1		
----->	Last reportable sample/prep for job MC32373			
17:13	ZZZZZZ	1		
17:19	ZZZZZZ	1		
17:25	ZZZZZZ	1		
17:30	ZZZZZZ	1		
17:36	ZZZZZZ	1		
17:42	ZZZZZZ	1		
17:48	ZZZZZZ	1		
17:53	MA17395-CCV6	1		
17:59	MA17395-CCB6	1		
18:04	ZZZZZZ	1		
18:10	ZZZZZZ	1		
18:16	ZZZZZZ	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: MC32373

Account: WSPVAR - WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB073014M1.ICP

Date Analyzed: 07/30/14

Methods: SW846 6010C

Analyst: EAL

Run ID: MA17395

Parameters: Ba

Time	Sample Description	Dilution Factor	PS Recov	Comments

18:21 ZZZZZZ 1

18:27 ZZZZZZ 1

18:33 ZZZZZZ 1

18:38 ZZZZZZ 1 RINSECONF

18:44 MA17395-CRI3 1

18:50 MA17395-ICSA3 1

18:55 MA17395-ICSAB3 1

19:01 MA17395-CCV7 1

19:07 MA17395-CCB7 1

-----> Last reportable CCB for job MC32373
Refer to raw data for calibration curve and standards.

8.1
8

INTERNAL STANDARD SUMMARY

Login Number: MC32373

Account: WSPVAR - WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB073014M1.ICP

Date Analyzed: 07/30/14

Methods: SW846 6010C

Analyst: EAL

Run ID: MA17395

Parameters: Ba

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
11:55	MA17395-STD1	3258 R	128840 R	18246 R	6867 R
12:01	MA17395-STD2	3196	125790	18295	6409
12:07	MA17395-ICV1	3200	125490	18286	6439
12:12	MA17395-ICB1	3262	129140	17953	6878
12:18	MA17395-CCV1	3238	127140	18473	6575
12:23	MA17395-CCB1	3256	128500	18215	6866
12:29	MA17395-CRIB1	3231	128000	18194	6732
12:35	MA17395-ICSA1	2853	111900	17700	5450
12:40	MA17395-ICSAB1	2841	110910	17498	5431
12:46	MP23418-B1	2868	111750	17854	5300
12:52	MP23418-MB1	3250	129690	18668	6879
12:57	MP23418-S1	2681	107270	17240	4965
13:03	MP23418-S2	2668	107530	16949	4947
13:08	MC32380-4	2673	107690	17397	4964
13:14	MP23418-SD1	2997	119060	18072	5805
13:20	MP23418-LB1	2839	110880	17714	5315
13:26	MA17395-CCV2	3213	127480	18068	6556
13:31	MA17395-CCB2	3248	128810	18345	6863
13:37	MP23418-LS1	2962	119100	17854	5912
13:42	ZZZZZZ	3010	121270	18159	6050
13:48	MP23418-LS2	2793	110750	17541	5346
13:54	ZZZZZZ	2806	111190	17631	5387
13:59	ZZZZZZ	2347	97929	18246	5323
14:05	ZZZZZZ	2375	100070	18455	5351
14:11	ZZZZZZ	2625	112180	17922	6016
14:16	ZZZZZZ	2664	106330	17312	4943
14:22	ZZZZZZ	2832	115600	18195	5901
14:29	ZZZZZZ	2929	118370	18239	5980
14:40	MA17395-CCV3	3237	127260	18359	6586
14:45	MA17395-CCB3	3274	130010	18291	6930
14:51	ZZZZZZ	3026	121600	18317	6117
14:57	ZZZZZZ	2841	115170	17591	5604
15:03	MA17395-CRIB2	3204	126340	18269	6704

INTERNAL STANDARD SUMMARY

Login Number: MC32373
Account: WSPVAR - WSP Environmental & Energy
Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB073014M1.ICP Date Analyzed: 07/30/14 Methods: SW846 6010C
Analyst: EAL Run ID: MA17395
Parameters: Ba

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
15:08	MA17395-CRI1	3225	129590	18142	6747
15:14	MP23411-B1	3148	124810	18167	6429
15:19	ZZZZZZ	3243	999999 !	18516	6890
15:25	MP23411-S1	3138	124940	18312	6419
15:30	MP23411-S2	3142	125480	18438	6410
15:36	MC32361-3	3251	129560	18437	6900
15:42	MP23411-SD1	3262	129030	18413	6918
15:47	MA17395-CCV4	3243	127830	18516	6603
15:53	ZZZZZZ	3236	128880	18246	6859
16:00	MA17395-CCB4	3253	128210	18287	6887
16:12	MP23411-B2	3141	125940	18224	6423
16:18	MP23411-MB2	3252	129700	18545	6895
16:24	MP23411-MB1	3233	129740	18407	6857
16:28	MA17395-CRI2	3238	128830	18207	6771
16:34	MA17395-ICSA2	2840	111080	17480	5443
16:39	MA17395-ICSAB2	2859	111480	17734	5472
16:45	MA17395-CCV5	3212	126250	18212	6562
16:50	MA17395-CCB5	3263	128930	18195	6914
16:56	MC32373-1	2956	118510	17843	5795
17:02	MC32373-5	2991	119460	17654	5958
17:08	MC32373-8	3239	129690	18289	6877
17:13	ZZZZZZ	2971	119510	17896	5987
17:19	ZZZZZZ	2904	116340	17597	5779
17:25	ZZZZZZ	3184	127080	18217	6719
17:30	ZZZZZZ	3113	123880	18125	6347
17:36	ZZZZZZ	3142	126690	18054	6476
17:42	ZZZZZZ	3133	124820	18263	6278
17:48	ZZZZZZ	3153	127590	18368	6441
17:53	MA17395-CCV6	3206	127590	18131	6535
17:59	MA17395-CCB6	3241	130140	18500	6845
18:04	ZZZZZZ	3084	123060	18036	6202
18:10	ZZZZZZ	3173	127320	18630	6530
18:16	ZZZZZZ	3108	125380	18379	6255

INTERNAL STANDARD SUMMARY

Login Number: MC32373
 Account: WSPVAR - WSP Environmental & Energy
 Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB073014M1.ICP Date Analyzed: 07/30/14 Methods: SW846 6010C
 Analyst: EAL Run ID: MA17395
 Parameters: Ba

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
18:21	ZZZZZZ	3104	125050	18117	6316
18:27	ZZZZZZ	3196	128380	18599	6690
18:33	ZZZZZZ	3108	124410	18210	6245
18:38	ZZZZZZ	3234	129400	18192	6833
18:44	MA17395-CRI3	3204	128430	18397	6683
18:50	MA17395-ICSA3	2827	112410	17570	5412
18:55	MA17395-ICSAB3	2834	111130	17570	5416
19:01	MA17395-CCV7	3211	127740	18470	6533
19:07	MA17395-CCB7	3248	130350	18406	6853

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	70-130 %
Istd#2	Yttrium (3600)	70-130 %
Istd#3	Yttrium (3710)	70-130 %
Istd#4	Indium	70-130 %

8.1.1
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BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: MC32373
Account: WSPVAR - WSP Environmental & Energy
Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB073014M1.ICP Date Analyzed: 07/30/14 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA17395 Units: ug/l

Time: Sample ID:			12:12 ICB1	12:23 CCB1		13:31 CCB2	14:45 CCB3			
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	8								
Antimony	6.0	.66								
Arsenic	4.0	1.2	anr							
Barium	50	.12	0.20	<50	0.30	<50	0.10	<50	0.20	<50
Beryllium	4.0	.04								
Bismuth	50	.87								
Boron	100	1.1								
Cadmium	4.0	.18	anr							
Calcium	5000	9.4								
Chromium	10	.33	anr							
Cobalt	50	.2								
Copper	25	.77	anr							
Gold	50	1.1								
Iron	100	1.5	anr							
Lead	5.0	1.2	anr							
Lithium	500	1.4								
Magnesium	5000	22								
Manganese	15	.091	anr							
Molybdenum	100	.46								
Nickel	40	.33	anr							
Palladium	50	1								
Platinum	50	2.5								
Potassium	5000	27								
Selenium	10	2.1	anr							
Silicon	100	4.8								
Silver	5.0	.62	anr							
Sodium	5000	11								
Sulfur	50	3.2								
Strontium	10	.11								
Thallium	5.0	.88								
Tin	100	.71								
Titanium	50	.36								
Tungsten	100	2.1								

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: MC32373
Account: WSPVAR - WSP Environmental & Energy
Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB073014M1.ICP Date Analyzed: 07/30/14 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA17395 Units: ug/l

Time: Sample ID:			12:12 ICB1		12:23 CCB1		13:31 CCB2		14:45 CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final

Vanadium 10 .36
Zinc 20 .37 anr
Zirconium 50 .24

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: MC32373
Account: WSPVAR - WSP Environmental & Energy
Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB073014M1.ICP Date Analyzed: 07/30/14 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA17395 Units: ug/l

Time: Sample ID:			16:00 CCB4		16:50 CCB5		17:59 CCB6		19:07 CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	8								
Antimony	6.0	.66								
Arsenic	4.0	1.2	anr							
Barium	50	.12	0.0	<50	0.30	<50	0.10	<50	0.0	<50
Beryllium	4.0	.04								
Bismuth	50	.87								
Boron	100	1.1								
Cadmium	4.0	.18	anr							
Calcium	5000	9.4								
Chromium	10	.33	anr							
Cobalt	50	.2								
Copper	25	.77	anr							
Gold	50	1.1								
Iron	100	1.5	anr							
Lead	5.0	1.2	anr							
Lithium	500	1.4								
Magnesium	5000	22								
Manganese	15	.091	anr							
Molybdenum	100	.46								
Nickel	40	.33	anr							
Palladium	50	1								
Platinum	50	2.5								
Potassium	5000	27								
Selenium	10	2.1	anr							
Silicon	100	4.8								
Silver	5.0	.62	anr							
Sodium	5000	11								
Sulfur	50	3.2								
Strontium	10	.11								
Thallium	5.0	.88								
Tin	100	.71								
Titanium	50	.36								
Tungsten	100	2.1								

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: MC32373
Account: WSPVAR - WSP Environmental & Energy
Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB073014M1.ICP Date Analyzed: 07/30/14 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA17395 Units: ug/l

Time: Sample ID:			16:00 CCB4		16:50 CCB5		17:59 CCB6		19:07 CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Vanadium	10	.36								
Zinc	20	.37	anr							
Zirconium	50	.24								
(*) Outside of QC limits										
(anr) Analyte not requested										

8.1.2
8

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: MC32373

Account: WSPVAR - WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB073014M1.ICP
QC Limits: 90 to 110 % Recovery

Date Analyzed: 07/30/14
Run ID: MA17395

Methods: SW846 6010C
Units: ug/l

Time: Sample ID:		12:07 ICV1	% Rec	CCV	12:18 CCV1	% Rec	CCV	13:26 CCV2	% Rec
Metal	True	Results		True	Results		True	Results	
Aluminum									
Antimony									
Arsenic	anr								
Barium	3000	3020	100.7	2000	1980	99.0	2000	1990	99.5
Beryllium									
Bismuth									
Boron									
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt									
Copper	anr								
Gold									
Iron	anr								
Lead	anr								
Lithium									
Magnesium									
Manganese	anr								
Molybdenum									
Nickel	anr								
Palladium									
Platinum									
Potassium									
Selenium	anr								
Silicon									
Silver	anr								
Sodium									
Sulfur									
Strontium									
Thallium									
Tin									
Titanium									
Tungsten									

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: MC32373
Account: WSPVAR - WSP Environmental & Energy
Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB073014M1.ICP Date Analyzed: 07/30/14 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA17395 Units: ug/l

Time:		12:07		12:18		13:26			
Sample ID:	ICV	ICV1		CCV	CCV1		CCV2		
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec

Vanadium

Zinc anr

Zirconium

(*) Outside of QC limits
(anr) Analyte not requested

8.1.3

8

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: MC32373

Account: WSPVAR - WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB073014M1.ICP
QC Limits: 90 to 110 % Recovery

Date Analyzed: 07/30/14
Run ID: MA17395

Methods: SW846 6010C
Units: ug/l

Time: Sample ID:		14:40 CCV3		15:47 CCV4		16:45 CCV5			
Metal	CCV	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum									
Antimony									
Arsenic	anr								
Barium	2000	2000	100.0	2000	1990	99.5	2000	2000	100.0
Beryllium									
Bismuth									
Boron									
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt									
Copper	anr								
Gold									
Iron	anr								
Lead	anr								
Lithium									
Magnesium									
Manganese	anr								
Molybdenum									
Nickel	anr								
Palladium									
Platinum									
Potassium									
Selenium	anr								
Silicon									
Silver	anr								
Sodium									
Sulfur									
Strontium									
Thallium									
Tin									
Titanium									
Tungsten									
				Page 3					

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: MC32373
Account: WSPVAR - WSP Environmental & Energy
Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB073014M1.ICP Date Analyzed: 07/30/14 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA17395 Units: ug/l

Time:		14:40		15:47		16:45	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV
Metal	True	Results	% Rec	True	Results	% Rec	True

Vanadium

Zinc anr

Zirconium

(*) Outside of QC limits
(anr) Analyte not requested

8.1.3

8

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: MC32373

Account: WSPVAR - WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB073014M1.ICP
QC Limits: 90 to 110 % Recovery

Date Analyzed: 07/30/14
Run ID: MA17395

Methods: SW846 6010C
Units: ug/l

Time: Sample ID:		17:53 CCV6	% Rec	19:01 CCV7	% Rec
Metal	CCV	Results		Results	
Aluminum					
Antimony					
Arsenic	anr				
Barium	2000	1960	98.0	2000	1970
Beryllium					
Bismuth					
Boron					
Cadmium	anr				
Calcium					
Chromium	anr				
Cobalt					
Copper	anr				
Gold					
Iron	anr				
Lead	anr				
Lithium					
Magnesium					
Manganese	anr				
Molybdenum					
Nickel	anr				
Palladium					
Platinum					
Potassium					
Selenium	anr				
Silicon					
Silver	anr				
Sodium					
Sulfur					
Strontium					
Thallium					
Tin					
Titanium					
Tungsten					

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: MC32373
Account: WSPVAR - WSP Environmental & Energy
Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB073014M1.ICP Date Analyzed: 07/30/14 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA17395 Units: ug/l

Time:		17:53			19:01		
Sample ID:		CCV	CCV6	CCV		CCV7	
Metal	True	Results	% Rec	True	Results	% Rec	

Vanadium

Zinc anr

Zirconium

(*) Outside of QC limits
(anr) Analyte not requested

8.1.3

8

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: MC32373

Account: WSPVAR - WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB073014M1.ICP

Date Analyzed: 07/30/14

Methods: SW846 6010C

QC Limits: CRI 70-130% CRIA 70-130%

Run ID: MA17395

Units: ug/l

Time: Sample ID:	CRI	CRIA	15:08 CRI1	% Rec	16:28 CRI2	% Rec	18:44 CRI3	% Rec
Metal	True	True	Results		Results		Results	
Aluminum	200	200						
Antimony	6.0	10						
Arsenic	4.0	10	anr					
Barium	50	50	50.4	100.8	49.7	99.4	49.4	98.8
Beryllium	4.0	4.0						
Bismuth	50	50						
Boron	100	100						
Cadmium	4.0	4.0	anr					
Calcium	5000	5000						
Chromium	10	10	anr					
Cobalt	50	50						
Copper	25	25	anr					
Gold	50	50						
Iron	100	100	anr					
Lead	5.0	10	anr					
Lithium	500	500						
Magnesium	5000	5000						
Manganese	15	15	anr					
Molybdenum	100	100						
Nickel	40	40	anr					
Palladium	50	50						
Platinum	50	50						
Potassium	5000	5000						
Selenium	10	10	anr					
Silicon	100	100						
Silver	5.0	5.0	anr					
Sodium	5000	5000						
Sulfur	50	50						
Strontium	10	10						
Thallium	5.0	10						
Tin	100	100						
Titanium	50	50						
Tungsten	100	100						

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: MC32373
 Account: WSPVAR - WSP Environmental & Energy
 Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB073014M1.ICP Date Analyzed: 07/30/14 Methods: SW846 6010C
 QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA17395 Units: ug/l

Time:			15:08		16:28		18:44	
Sample ID:	CRI	CRIA	CRI1		CRI2		CRI3	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec

Vanadium 10 10

Zinc 20 20 anr

Zirconium 50 50

(*) Outside of QC limits

(anr) Analyte not requested

8.1.4

8

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: MC32373

Account: WSPVAR - WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB073014M1.ICP
QC Limits: 70 to 130 % Recovery

Date Analyzed: 07/30/14
Run ID: MA17395

Methods: SW846 6010C
Units: ug/l

Time:		12:29		15:03	
Sample ID:		CRIB	CRIB1	CRIB2	
Metal	True	Results	% Rec	Results	% Rec
Aluminum	200				
Antimony	6.0				
Arsenic	10				
Barium	500	503	100.6	504	100.8
Beryllium	4.0				
Bismuth	50				
Boron	100				
Cadmium	4.0				
Calcium	5000				
Chromium	10				
Cobalt	50				
Copper	25				
Gold	50				
Iron	100				
Lead	10				
Lithium	500				
Magnesium	5000				
Manganese	15				
Molybdenum	100				
Nickel	40				
Palladium	50				
Platinum	50				
Potassium	5000				
Selenium	25				
Silicon	100				
Silver	5.0				
Sodium	5000				
Sulfur	50				
Strontium	10				
Thallium	5.0				
Tin	100				
Titanium	50				
Tungsten	100				

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: MC32373
 Account: WSPVAR - WSP Environmental & Energy
 Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB073014M1.ICP Date Analyzed: 07/30/14 Methods: SW846 6010C
 QC Limits: 70 to 130 % Recovery Run ID: MA17395 Units: ug/l

Time:		12:29		15:03	
Sample ID:		CRIB	CRIB1	CRIB2	
Metal	True	Results	% Rec	Results	% Rec

Vanadium 10

Zinc 100

Zirconium 50

(*) Outside of QC limits
 (anr) Analyte not requested

8.1.5

8

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: MC32373

Account: WSPVAR - WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB073014M1.ICP
QC Limits: 80 to 120 % Recovery

Date Analyzed: 07/30/14
Run ID: MA17395

Methods: SW846 6010C
Units: ug/l

Time: Sample ID:	ICSA True	ICSAB True	12:35 ICSA1 Results	% Rec	12:40 ICSAB1 Results	% Rec	16:34 ICSA2 Results	% Rec	16:39 ICSAB2 Results	% Rec
Metal										
Aluminum	500000	500000	528000	105.6	520000	104.0	517000	103.4	511000	102.2
Antimony		2000	-0.90		2120	106.0	0.40		2110	105.5
Arsenic		2000	-0.50		2060	103.0	1.2		2050	102.5
Barium		500	0.60		483	96.6	0.60		485	97.0
Beryllium		500	0.10		479	95.8	0.10		476	95.2
Bismuth		500	1.3		504	100.8	2.1		496	99.2
Boron		1000	2.8		1000	100.0	3.9		1000	100.0
Cadmium		1000	0.50		1040	104.0	0.60		1030	103.0
Calcium	500000	500000	458000	91.6	460000	92.0	457000	91.4	455000	91.0
Chromium		500	0.20		471	94.2	0.50		472	94.4
Cobalt		500	0.70		473	94.6	1.0		470	94.0
Copper		500	-1.2		517	103.4	-1.4		512	102.4
Gold		500	-2.1		515	103.0	-1.8		517	103.4
Iron	200000	200000	182000	91.0	181000	90.5	183000	91.5	180000	90.0
Lead		1000	-0.40		921	92.1	-1.9		916	91.6
Lithium		500	5.5		526	105.2	6.2		523	104.6
Magnesium	500000	500000	525000	105.0	523000	104.6	522000	104.4	520000	104.0
Manganese		500	0.70		489	97.8	0.60		487	97.4
Molybdenum		1000	3.1		942	94.2	1.6		936	93.6
Nickel		1000	-0.10		919	91.9	-0.20		907	90.7
Palladium		500	-31		523	104.6	-31		520	104.0
Platinum		500	-23		492	98.4	-26		496	99.2
Potassium			-110		-130		-81		-73	
Selenium		2000	1.1		2040	102.0	1.6		2030	101.5
Silicon		2000	22.0		2010	100.5	21.8		1980	99.0
Silver		1000	0.70		1050	105.0	0.40		1050	105.0
Sodium			99.3		103		152		162	
Sulfur		500	41.4		553	110.6	49.1		552	110.4
Strontium		1000	1.3		969	96.9	1.3		959	95.9
Thallium		2000	-1.3		1830	91.5	0.10		1830	91.5
Tin		1000	2.1		921	92.1	2.7		907	90.7
Titanium		500	0.90		481	96.2	0.70		481	96.2
Tungsten		2000	26.4		1890	94.5	16.9		1870	93.5

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: MC32373
Account: WSPVAR - WSP Environmental & Energy
Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB073014M1.ICP Date Analyzed: 07/30/14 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA17395 Units: ug/l

Time: Sample ID:	ICSA	ICSAB	12:35 ICSA1	% Rec	12:40 ICSAB1	% Rec	16:34 ICSA2	% Rec	16:39 ICSAB2	% Rec
Metal	True	True	Results		Results		Results		Results	
Vanadium		500	0.10		478	95.6	-0.20		474	94.8
Zinc		1000	0.90		898	89.8	0.80		894	89.4
Zirconium		500	2.1		358	71.6*	1.0		328	65.6*
(*) Outside of QC limits										
(anr) Analyte not requested										

8.1.6

8

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: MC32373

Account: WSPVAR - WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB073014M1.ICP
QC Limits: 80 to 120 % Recovery

Date Analyzed: 07/30/14
Run ID: MA17395

Methods: SW846 6010C
Units: ug/l

Time: Sample ID:	ICSA True	ICSAB True	18:50 ICSA3 Results	% Rec	18:55 ICSAB3 Results	% Rec
Metal						
Aluminum	500000	500000	522000	104.4	519000	103.8
Antimony		2000	-0.10		2110	105.5
Arsenic		2000	-0.60		2030	101.5
Barium		500	0.40		479	95.8
Beryllium		500	0.10		477	95.4
Bismuth		500	1.4		504	100.8
Boron		1000	2.4		992	99.2
Cadmium		1000	0.30		1020	102.0
Calcium	500000	500000	451000	90.2	451000	90.2
Chromium		500	0.40		458	91.6
Cobalt		500	0.60		469	93.8
Copper		500	1.1		510	102.0
Gold		500	-4.6		504	100.8
Iron	200000	200000	185000	92.5	180000	90.0
Lead		1000	0.0		915	91.5
Lithium		500	6.7		518	103.6
Magnesium	500000	500000	521000	104.2	520000	104.0
Manganese		500	1.0		483	96.6
Molybdenum		1000	1.9		933	93.3
Nickel		1000	-0.60		917	91.7
Palladium		500	-34		516	103.2
Platinum		500	-24		491	98.2
Potassium			-92		-98	
Selenium		2000	4.4		2030	101.5
Silicon		2000	21.9		2000	100.0
Silver		1000	2.1		1030	103.0
Sodium			154		150	
Sulfur		500	38.7		545	109.0
Strontium		1000	1.3		980	98.0
Thallium		2000	-0.10		1810	90.5
Tin		1000	2.2		918	91.8
Titanium		500	0.60		471	94.2
Tungsten		2000	16.2		1850	92.5

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: MC32373
Account: WSPVAR - WSP Environmental & Energy
Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB073014M1.ICP Date Analyzed: 07/30/14 Methods: SW846 6010C
QC Limits: 80 to 120 % Recovery Run ID: MA17395 Units: ug/l

Time:				18:50		18:55	
Sample ID:	ICSAB	ICSAB	ICSAB			ICSAB3	
Metal	True	True	Results	% Rec	Results	% Rec	
Vanadium		500	-0.30		473	94.6	
Zinc		1000	3.0		882	88.2	
Zirconium		500	1.6		351	70.2*	
(*) Outside of QC limits							
(anr) Analyte not requested							

8.1.6

8

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: MC32373

Account: WSPVAR - WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

QC Batch ID: MP23411

Methods: SW846 6010C

Matrix Type: AQUEOUS

Units: ug/l

Prep Date:

07/28/14

07/28/14

Metal	RL	IDL	MDL	MB raw	final	MB raw	final
Aluminum	200	8	13				
Antimony	6.0	.66	2.4				
Arsenic	4.0	1.2	2.4				
Barium	50	.12	2	0.50	<50	0.20	<50
Beryllium	4.0	.04	.18				
Bismuth	50	.87	3				
Boron	100	1.1	3.4				
Cadmium	4.0	.18	.24				
Calcium	5000	9.4	21				
Chromium	10	.33	.73				
Cobalt	50	.2	.6				
Copper	25	.77	3.6				
Gold	50	1.1	1.4				
Iron	100	1.5	7.4				
Lead	5.0	1.2	1.9				
Lithium	500	1.4	45				
Magnesium	5000	22	74				
Manganese	15	.091	.35				
Molybdenum	100	.46	.81				
Nickel	40	.33	.57				
Palladium	50	1	6.5				
Platinum	50	2.5	5.1				
Potassium	5000	27	69				
Selenium	10	2.1	2.7				
Silicon	100	4.8	21				
Silver	5.0	.62	.96				
Sodium	5000	11	22				
Sulfur	50	3.2	9.7				
Strontium	10	.11	.18				
Thallium	5.0	.88	1.5				
Tin	100	.71	3.3				
Titanium	50	.36	.89				
Tungsten	100	2.1	5.2				

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: MC32373
Account: WSPVAR - WSP Environmental & Energy
Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

QC Batch ID: MP23411
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 07/28/14 07/28/14

Metal	RL	IDL	MDL	MB raw	final	MB raw	final

Vanadium	10	.36	.72				
Zinc	20	.37	4.2				
Zirconium	50	.24	1.3				

Associated samples MP23411: MC32373-1, MC32373-5, MC32373-8

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: MC32373

Account: WSPVAR - WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

QC Batch ID: MP23411

Methods: SW846 6010C

Matrix Type: AQUEOUS

Units: ug/l

Prep Date: 07/28/14

Metal	MC32361-3 Original MS		Spike lot MPICP		% Rec	QC Limits
Aluminum						
Antimony						
Arsenic	anr					
Barium	0.30	1990	2000	99.5	75-125	
Beryllium						
Bismuth						
Boron						
Cadmium	anr					
Calcium						
Chromium	anr					
Cobalt						
Copper	anr					
Gold						
Iron	anr					
Lead	anr					
Lithium						
Magnesium						
Manganese	anr					
Molybdenum						
Nickel	anr					
Palladium						
Platinum						
Potassium						
Selenium	anr					
Silicon						
Silver	anr					
Sodium						
Sulfur						
Strontium						
Thallium						
Tin						
Titanium						
Tungsten						

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: MC32373
 Account: WSPVAR - WSP Environmental & Energy
 Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

QC Batch ID: MP23411
 Matrix Type: AQUEOUS

Methods: SW846 6010C
 Units: ug/l

Prep Date: 07/28/14

Metal	MC32361-3 Original MS	Spike lot MPICP	% Rec	QC Limits

Vanadium

Zinc anr

Zirconium

Associated samples MP23411: MC32373-1, MC32373-5, MC32373-8

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

8.2.2

8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: MC32373

Account: WSPVAR - WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

QC Batch ID: MP23411

Methods: SW846 6010C

Matrix Type: AQUEOUS

Units: ug/l

Prep Date:

07/28/14

Metal	MC32361-3 Original MSD		SpikeLot MPICP	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic	anr					
Barium	0.30	2000	2000	100.0	0.5	20
Beryllium						
Bismuth						
Boron						
Cadmium	anr					
Calcium						
Chromium	anr					
Cobalt						
Copper	anr					
Gold						
Iron	anr					
Lead	anr					
Lithium						
Magnesium						
Manganese	anr					
Molybdenum						
Nickel	anr					
Palladium						
Platinum						
Potassium						
Selenium	anr					
Silicon						
Silver	anr					
Sodium						
Sulfur						
Strontium						
Thallium						
Tin						
Titanium						
Tungsten						

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: MC32373
 Account: WSPVAR - WSP Environmental & Energy
 Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

QC Batch ID: MP23411
 Matrix Type: AQUEOUS

Methods: SW846 6010C
 Units: ug/l

Prep Date: 07/28/14

Metal	MC32361-3 Original MSD	Spike lot MPICP	% Rec	MSD RPD	QC Limit

Vanadium

Zinc anr

Zirconium

Associated samples MP23411: MC32373-1, MC32373-5, MC32373-8

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

8.2.2

8

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: MC32373

Account: WSPVAR - WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

QC Batch ID: MP23411

Methods: SW846 6010C

Matrix Type: AQUEOUS

Units: ug/l

Prep Date:

07/28/14

07/28/14

Metal	BSP Result	SpikeLot MPICP	% Rec	QC Limits	BSD Result	SpikeLot MPICP	% Rec	BSD RPD	QC Limit
Aluminum									
Antimony									
Arsenic	anr								
Barium	1980	2000	99.0	80-120	2000	2000	100.0	1.0	20
Beryllium									
Bismuth									
Boron									
Cadmium	anr								
Calcium									
Chromium	anr								
Cobalt									
Copper	anr								
Gold									
Iron	anr								
Lead	anr								
Lithium									
Magnesium									
Manganese	anr								
Molybdenum									
Nickel	anr								
Palladium									
Platinum									
Potassium									
Selenium	anr								
Silicon									
Silver	anr								
Sodium									
Sulfur									
Strontium									
Thallium									
Tin									
Titanium									
Tungsten									

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: MC32373
 Account: WSPVAR - WSP Environmental & Energy
 Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

QC Batch ID: MP23411
 Matrix Type: AQUEOUS

Methods: SW846 6010C
 Units: ug/l

Prep Date: 07/28/14 07/28/14

Metal	BSP Result	Spike lot MPICP	% Rec	QC Limits	BSD Result	Spike lot MPICP	% Rec	BSD RPD	QC Limit

Vanadium

Zinc anr

Zirconium

Associated samples MP23411: MC32373-1, MC32373-5, MC32373-8

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

8.2.3

8

SERIAL DILUTION RESULTS SUMMARY

Login Number: MC32373

Account: WSPVAR - WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

QC Batch ID: MP23411

Methods: SW846 6010C

Matrix Type: AQUEOUS

Units: ug/l

Prep Date:

07/28/14

Metal	MC32361-3 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic	anr			
Barium	0.300	0.800	166.7(a)	0-10
Beryllium				
Bismuth				
Boron				
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt				
Copper	anr			
Gold				
Iron	anr			
Lead	anr			
Lithium				
Magnesium				
Manganese	anr			
Molybdenum				
Nickel	anr			
Palladium				
Platinum				
Potassium				
Selenium	anr			
Silicon				
Silver	anr			
Sodium				
Sulfur				
Strontium				
Thallium				
Tin				
Titanium				
Tungsten				

8.2.4

8

SERIAL DILUTION RESULTS SUMMARY

Login Number: MC32373
 Account: WSPVAR - WSP Environmental & Energy
 Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

QC Batch ID: MP23411
 Matrix Type: AQUEOUS

Methods: SW846 6010C
 Units: ug/l

Prep Date: 07/28/14

Metal	MC32361-3 Original SDL 1:5	%DIF	QC Limits

Vanadium

Zinc anr

Zirconium

Associated samples MP23411: MC32373-1, MC32373-5, MC32373-8

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

8.2.4

8

Metals Analysis

Raw Data

Sample Name: STD1 Acquired: 7/30/2014 11:55:55 Type: Cal
Method: Accutest2(v76) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-0.012	-0.001	-0.002	-0.000	.0004	-0.006	-0.001	.0005	.0055
Stddev	.0000	.0000	.0001	.0000	.0000	.0001	.0001	.0001	.0001
%RSD	2.443	24.31	64.94	3.176	3.055	13.54	176.0	13.61	1.707
#1	-.0012	-.0001	-.0002	-.0000	.0004	-.0006	-.0000	.0005	.0055
#2	-.0011	-.0001	-.0001	-.0000	.0004	-.0005	-.0002	.0006	.0056

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0005	-0.002	.0000	.0054	.0002	-0.005	.0015	-0.001	.0001
Stddev	.0000	.0001	.0000	.0000	.0000	.0007	.0003	.0000	.0000
%RSD	8.263	33.13	11.01	.5672	13.35	122.8	17.09	24.52	6.900
#1	.0005	-.0002	.0000	.0054	.0002	-.0001	.0013	-.0001	.0001
#2	.0005	-.0001	.0000	.0054	.0001	-.0010	.0017	-.0001	.0001

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0003	.0025	-0.004	-0.005	-0.001	-0.001	.0000	-0.006	.0002
Stddev	.0001	.0000	.0000	.0001	.0000	.0000	.0001	.0001	.0001
%RSD	14.76	1.033	5.048	18.55	24.95	14.10	2493.	8.545	60.21
#1	.0004	.0025	-.0005	-.0005	-.0002	-.0001	.0001	-.0006	.0001
#2	.0003	.0025	-.0004	-.0004	-.0001	-.0001	-.0001	-.0006	.0003

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0099	.0000	-0.027	-0.002	-0.003	.0001	.0029	.0002	-0.001
Stddev	.0000	.0000	.0001	.0000	.0000	.0000	.0001	.0001	.0000
%RSD	.0941	117.5	3.913	1.445	15.65	25.71	2.655	58.84	33.26
#1	.0099	.0000	-.0028	-.0002	-.0003	.0001	.0028	.0002	-.0002
#2	.0099	.0000	-.0026	-.0002	-.0003	.0001	.0029	.0001	-.0001

Raw Data MA17395 page 1 of 150

Sample Name: STD1 Acquired: 7/30/2014 11:55:55 Type: Cal
Method: Accutest2(v76) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6867.3	3257.6	128840.	18246.
Stddev	1.4	1.0	161.	37.
%RSD	.01986	.03032	.12489	.20169
#1	6868.3	3256.9	128960.	18272.
#2	6866.3	3258.3	128730.	18220.

Raw Data MA17395 page 2 of 150

Sample Name: STD2 Acquired: 7/30/2014 12:01:36 Type: Cal
Method: Accutest2(v76) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0757	1.045	.5992	.1176	1.158	12.91	9.602	1.322	1.133
Stddev	.0003	.007	.0003	.0002	.000	.16	.069	.000	.010
%RSD	.3482	.6456	.0564	.1913	.0101	1.233	.7151	.0282	.8628
#1	.0755	1.049	.5990	.1175	1.158	13.02	9.651	1.322	1.139
#2	.0759	1.040	.5994	.1178	1.158	12.80	9.554	1.323	1.126

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5.390	2.500	.3516	.9876	1.004	.6059	3.520	.0871	2.743
Stddev	.004	.000	.0003	.0029	.007	.0032	.016	.0000	.005
%RSD	.0686	.0138	.0913	.2884	.7330	.5336	.4457	.0002	.1714
#1	5.387	2.499	.3513	.9955	1.009	.6082	3.531	.0871	2.740
#2	5.393	2.500	.3518	.9996	.9988	.6036	3.509	.0871	2.746

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4.601	2.928	2.008	.7775	.2855	.0401	.3187	.9279	.4237
Stddev	.011	.017	.001	.0005	.0007	.0001	.0005	.0013	.0008
%RSD	.2447	.5659	.0355	.0677	.2624	.1484	.1431	.1407	.1865
#1	4.593	2.940	2.008	.7771	.2850	.0401	.3191	.9288	.4243
#2	4.608	2.917	2.009	.7778	.2861	.0402	.3184	.9269	.4232

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.463	.9417	24.14	.7023	.3067	.5792	1.715	4.389	1.742
Stddev	.000	.0013	.25	.0008	.0000	.0004	.004	.006	.001
%RSD	.0168	.1354	1.016	.1134	.0048	.0605	.2610	.1311	.0604
#1	1.463	.9408	23.96	.7018	.3067	.5789	1.712	4.385	1.741
#2	1.463	.9426	24.31	.7029	.3067	.5794	1.718	4.393	1.743

Raw Data MA17395 page 3 of 150

Sample Name: STD2 Acquired: 7/30/2014 12:01:36 Type: Cal
Method: Accutest2(v76) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6409.3	3196.1	125790.	18295.
Stddev	3.7	2.2	78.	154.
%RSD	.05704	.06993	.06208	.84388
#1	6411.8	3197.7	125850.	18185.
#2	6406.7	3194.5	125740.	18404.

Raw Data MA17395 page 4 of 150

Sample Name: ICV Acquired: 7/30/2014 12:07:18 Type: QC
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5072	15.47	2.993	2.980	3.090	3.021	2.978	3.053	17.85
Stddev	.0005	.03	.007	.002	.003	.001	.004	.001	.03
%RSD	.0959	.2134	.2377	.0568	.1030	.0325	.1231	.0173	.1871
#1	.5069	15.49	2.988	2.981	3.088	3.020	2.981	3.054	17.87
#2	.5076	15.44	2.998	2.979	3.092	3.022	2.976	3.053	17.83

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass None Chk Pass
Value
Range

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.009	2.949	3.021	2.937	17.96	15.46	2.971	18.37	3.047
Stddev	.002	.006	.000	.003	.01	.04	.001	.08	.000
%RSD	.0775	.2132	.0001	.0980	.0716	.2296	.0228	.4298	.0083
#1	3.008	2.945	3.021	2.935	17.97	15.48	2.970	18.43	3.047
#2	3.011	2.954	3.021	2.939	17.95	15.43	2.971	18.32	3.047

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass None Chk Pass Chk Pass
Value
Range

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.960	15.17	2.953	2.990	2.991	3.008	2.998	3.037	2.989
Stddev	.011	.03	.005	.006	.002	.002	.006	.004	.010
%RSD	.3541	.1924	.1720	.1932	.0796	.0572	.1911	.1170	.3443
#1	2.952	15.19	2.949	2.986	2.989	3.009	2.994	3.034	2.982
#2	2.967	15.15	2.957	2.994	2.992	3.007	3.002	3.039	2.997

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Raw Data MA17395 page 5 of 150

Sample Name: ICV Acquired: 7/30/2014 12:07:18 Type: QC
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.813	2.943	2.998	2.981	3.009	2.993	3.027	2.959	3.134
Stddev	.003	.006	.009	.001	.010	.004	.012	.006	.004
%RSD	.1223	.1928	.2841	.0190	.3446	.1291	.3992	.2177	.1422
#1	2.810	2.939	3.004	2.982	3.002	2.991	3.019	2.954	3.131
#2	2.815	2.947	2.992	2.981	3.017	2.996	3.036	2.963	3.137

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6438.6	3199.6	125490.	18286.
Stddev	5.0	4.2	57.	90.
%RSD	.07776	.13272	.04538	.49342
#1	6435.1	3196.6	125530.	18222.
#2	6442.2	3202.6	125450.	18350.

Raw Data MA17395 page 6 of 150

Sample Name: ICB Acquired: 7/30/2014 12:12:48 Type: QC
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	-.0006	.0012	.0015	.0055	.0002	.0002	.0005	.0017
Stddev	.0001	.0016	.0001	.0002	.0002	.0000	.0001	.0005	.0006
%RSD	140.3	252.4	8.026	10.16	3.337	23.55	23.23	94.54	33.02
#1	.0001	-.0018	.0013	.0016	.0057	.0002	.0003	.0002	.0021
#2	.0000	-.0005	.0011	.0014	.0054	.0001	.0002	.0008	.0013

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0003	.0001	.0002	.0025	.0303	.0007	.0128	.0003
Stddev	.0001	.0001	.0001	.0000	.0003	.0050	.0001	.0115	.0000
%RSD	48.38	50.73	44.18	7.858	13.17	16.46	15.46	89.95	13.67
#1	.0001	.0002	.0002	.0002	.0027	.0338	.0008	.0047	.0003
#2	.0003	.0004	.0001	.0002	.0023	.0268	.0006	.0210	.0003

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0096	-.0055	.0003	-.0004	.0002	.0005	-.0006	.0007	.0021
Stddev	.0018	.0006	.0000	.0003	.0006	.0007	.0005	.0005	.0006
%RSD	18.58	10.22	.1418	69.67	405.6	158.7	94.80	73.53	28.00
#1	.0108	-.0059	.0003	-.0006	.0006	-.0001	-.0010	.0011	.0026
#2	.0083	-.0051	.0003	-.0002	-.0003	.0010	-.0002	.0004	.0017

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Raw Data MA17395 page 7 of 150

Sample Name: ICB Acquired: 7/30/2014 12:12:48 Type: QC
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0017	.0006	.0002	.0007	.0011	.0004	F .0187	.0004	.0018
Stddev	.0001	.0001	.0000	.0002	.0003	.0001	.0022	.0000	.0000
%RSD	3.224	18.02	.4591	24.95	24.84	35.91	11.66	6.882	1.951
#1	.0016	.0007	.0002	.0008	.0009	.0004	.0203	.0004	.0017
#2	.0017	.0005	.0002	.0006	.0013	.0003	.0172	.0004	.0018

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Fail Chk Pass Chk Pass
High Limit
Low Limit

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6878.2	3261.7	129140.	17953.
Stddev	10.9	4.3	409.	417.
%RSD	.15790	.13050	.31653	2.3248
#1	6870.5	3258.6	129430.	18248.
#2	6885.9	3264.7	128850.	17658.

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Sample Name: CCV Acquired: 7/30/2014 12:18:30 Type: QC
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2477	9.780	1.978	1.996	1.988	1.975	1.961	2.004	9.828
Stddev	.0009	.004	.002	.002	.002	.004	.002	.000	.017
%RSD	.3519	.0456	.1211	.0890	.0737	.2049	.1144	.0004	.1695
#1	2483	9.777	1.980	1.997	1.989	1.972	1.959	2.004	9.840
#2	2470	9.783	1.976	1.994	1.987	1.978	1.963	2.004	9.816

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass None Chk Pass
Value
Range

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.980	1.967	1.979	1.942	9.813	9.741	1.957	9.717	2.011
Stddev	.000	.003	.005	.003	.020	.019	.003	.031	.004
%RSD	.0103	.1748	.2791	.1459	.1986	.1946	.1441	.3161	.2159
#1	1.980	1.970	1.983	1.944	9.827	9.728	1.955	9.695	2.014
#2	1.979	1.965	1.975	1.940	9.799	9.755	1.959	9.739	2.008

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.985	9.688	1.969	1.964	1.959	1.985	1.984	1.973	1.976
Stddev	.002	.007	.002	.004	.001	.008	.001	.001	.001
%RSD	.0986	.0718	.1054	.1944	.0243	.4048	.0574	.0668	.0319
#1	1.984	9.683	1.970	1.967	1.959	1.991	1.983	1.974	1.975
#2	1.987	9.693	1.967	1.962	1.959	1.980	1.985	1.972	1.976

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

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Sample Name: CCV Acquired: 7/30/2014 12:18:30 Type: QC
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.032	1.993	1.965	1.977	2.005	1.961	1.944	1.990	1.987
Stddev	.001	.004	.002	.004	.002	.005	.003	.000	.004
%RSD	.0519	.1891	.0963	.2131	.1128	.2696	.1659	.0174	.2217
#1	2.031	1.991	1.964	1.980	2.007	1.965	1.942	1.990	1.990
#2	2.033	1.996	1.966	1.974	2.004	1.957	1.946	1.990	1.984

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6575.1	3238.1	127140.	18473.
Stddev	4.4	1.6	358.	64.
%RSD	.06766	.04847	.28143	.34637
#1	6572.0	3239.2	126880.	18428.
#2	6578.2	3237.0	127390.	18518.

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Sample Name: CCB Acquired: 7/30/2014 12:23:55 Type: QC
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0003	.0011	.0010	.0043	.0003	.0002	.0007	.0009
Stddev	.0001	.0054	.0005	.0002	.0007	.0001	.0000	.0003	.0017
%RSD	37.66	1641.	46.30	20.20	15.20	29.22	17.64	47.93	182.8
#1	.0002	-.0035	.0014	.0012	.0048	.0002	.0003	.0010	-.0003
#2	.0001	.0041	.0007	.0009	.0039	.0003	.0002	.0005	.0021

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0001	.0001	-.0001	.0031	.0332	.0003	.0179	.0003
Stddev	.0001	.0001	.0001	.0001	.0007	.0015	.0002	.0078	.0000
%RSD	68.75	96.23	89.45	107.1	21.53	4.387	68.16	43.24	7.640
#1	.0001	.0001	.0002	-.0002	.0035	.0321	.0002	.0234	.0003
#2	.0001	.0000	.0001	-.0000	.0026	.0342	.0005	.0125	.0002

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0072	-.0057	.0002	.0003	.0009	.0013	-.0012	.0002	.0000
Stddev	.0010	.0016	.0000	.0010	.0004	.0015	.0003	.0001	.0012
%RSD	13.81	27.37	30.62	334.2	51.70	117.1	20.78	42.24	3402.
#1	.0079	-.0046	.0001	-.0004	.0012	.0023	-.0014	.0003	-.0008
#2	.0065	-.0069	.0002	.0010	.0005	.0002	-.0010	.0002	.0009

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

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Sample Name: CCB Acquired: 7/30/2014 12:23:55 Type: QC
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018	.0005	.0002	.0007	.0006	.0003	F .0178	.0003	.0014
Stddev	.0004	.0003	.0000	.0000	.0002	.0000	.0005	.0001	.0000
%RSD	21.94	68.46	11.48	4.929	34.44	6.217	2.621	40.95	2.850
#1	.0015	.0007	.0002	.0007	.0004	.0003	.0181	.0004	.0015
#2	.0021	.0002	.0003	.0006	.0007	.0003	.0175	.0002	.0014

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Fail Chk Pass Chk Pass
High Limit
Low Limit

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6865.8	3255.9	128500.	18215.
Stddev	5.1	6.3	353.	68.
%RSD	.07381	.19228	.27481	.37555
#1	6862.3	3251.5	128260.	18167.
#2	6869.4	3260.3	128750.	18264.

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Sample Name: CRIB Acquired: 7/30/2014 12:29:36 Type: QC										
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000										
User: admin Custom ID1: Custom ID2: Custom ID3:										
Comment:										
Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.0054	.2038	.0116	.0498	.1057	.5031	.0041	.0522	4.999	
Stddev	.0000	.0002	.0001	.0002	.0008	.0017	.0000	.0008	.017	
%RSD	.3951	.1162	.6117	.4247	.7146	.3290	.3463	1.479	.3458	
#1	.0054	.2039	.0115	.0496	.1062	.5043	.0041	.0528	4.987	
#2	.0054	.2036	.0116	.0499	.1052	.5019	.0040	.0517	5.011	
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	
Value										
Range										
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.0040	.0508	.0107	.0236	.1045	4.904	.4907	4.983	.0161	
Stddev	.0000	.0001	.0002	.0002	.0009	.000	.0021	.041	.0000	
%RSD	.1252	.2293	1.507	.6773	.8453	.0050	.4358	.8220	.0198	
#1	.0040	.0507	.0108	.0237	.1039	4.904	.4922	4.954	.0161	
#2	.0040	.0508	.0106	.0234	.1051	4.904	.4892	5.012	.0161	
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	
Value										
Range										
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.1079	4.868	.0421	.0103	.0490	.0491	.0505	.0053	.0257	
Stddev	.0003	.009	.0000	.0001	.0003	.0025	.0006	.0003	.0025	
%RSD	.2714	.1879	.0363	.5005	.7024	5.035	1.119	6.521	9.786	
#1	.1077	4.875	.0420	.0102	.0487	.0509	.0501	.0050	.0239	
#2	.1081	4.862	.0421	.0103	.0492	.0474	.0509	.0055	.0275	
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None	None	Chk Pass	Chk Pass	
Value										
Range										

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Sample Name: ICSEA Acquired: 7/30/2014 12:35:10 Type: QC										
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000										
User: admin Custom ID1: Custom ID2: Custom ID3:										
Comment:										
Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.0007	528.3	-.0005	-.0021	.0028	.0006	.0001	.0013	458.3	
Stddev	.0003	.9	.0027	.0011	.0002	.0000	.0000	.0008	1.9	
%RSD	37.25	.1634	557.5	52.33	6.681	2.383	21.60	59.94	.4123	
#1	.0005	528.9	-.0024	-.0029	.0026	.0006	.0002	.0018	459.7	
#2	.0009	527.7	.0014	-.0013	.0029	.0006	.0001	.0007	457.0	
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	
High Limit										
Low Limit										
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.0005	.0007	.0002	-.0012	182.2	-.1122	.0055	525.4	.0007	
Stddev	.0001	.0001	.0002	.0003	1	.0079	.0005	.2	.0000	
%RSD	12.12	15.71	87.85	21.35	.0635	7.071	9.517	.0393	4.965	
#1	.0005	.0007	.0003	-.0010	182.3	-.1179	.0051	525.6	.0007	
#2	.0004	.0008	.0001	-.0014	182.1	-.1066	.0059	525.3	.0007	
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	
High Limit										
Low Limit										
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.0031	.0993	-.0001	-.0004	-.0310	-.0228	.0414	-.0009	.0011	
Stddev	.0002	.0043	.0001	.0005	.0003	.0007	.0001	.0011	.0038	
%RSD	6.503	4.362	67.78	126.9	.8781	3.286	.3353	124.4	343.5	
#1	.0032	.1024	-.0001	-.0000	-.0308	-.0223	.0415	-.0016	-.0016	
#2	.0029	.0962	-.0002	-.0008	-.0312	-.0233	.0413	-.0001	.0038	
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	
High Limit										
Low Limit										

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Sample Name: CRIB				Acquired: 7/30/2014 12:29:36		Type: QC			
Method: Accutest2(v76)		Mode: CONC		Corr. Factor: 1.000000					
User: admin		Custom ID1:		Custom ID2:		Custom ID3:			
Comment:									
Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1046	.1015	.0102	.0502	.0060	.0101	.1129	.1082	.0533
Stddev	.0002	.0002	.0000	.0001	.0002	.0003	.0005	.0006	.0001
%RSD	.1691	.1519	.3682	.1950	3.423	2.743	.4201	.5998	.1133
#1	.1044	.1016	.0102	.0502	.0062	.0103	.1132	.1078	.0534
#2	.1047	.1014	.0101	.0501	.0059	.0099	.1126	.1087	.0533
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	None
Value									
Range									
Int. Std.	In2306	Y_2243	Y_3600	Y_3710					
Units	Cts/S	Cts/S	Cts/S	Cts/S					
Avg	6732.3	3231.0	128000.	18194.					
Stddev	22.9	7.9	24.	112.					
%RSD	.34074	.24404	.01883	.61660					
#1	6748.5	3236.5	128020.	18274.					
#2	6716.1	3225.4	127990.	18115.					

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Sample Name: ICSEA		Acquired: 7/30/2014 12:35:10			Type: QC					
Method: Accutest2(v76)		Mode: CONC		Corr. Factor: 1.000000						
User: admin		Custom ID1:		Custom ID2:		Custom ID3:				
Comment:										
Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.0220	.0021	.0013	.0009	-.0013	.0001	.0264	.0009	.0021	
Stddev	.0009	.0000	.0000	.0003	.0024	.0003	.0017	.0000	.0000	
%RSD	4.315	.2441	3.248	35.69	177.7	196.0	6.517	2.495	1.256	
#1	.0213	.0021	.0014	.0006	.0003	-.0001	.0276	.0009	.0021	
#2	.0226	.0021	.0013	.0011	-.0030	.0003	.0252	.0010	.0021	
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	
High Limit										
Low Limit										
Int. Std.	In2306	Y_2243	Y_3600	Y_3710						
Units	Cts/S	Cts/S	Cts/S	Cts/S						
Avg	5449.9	2852.5	111900.	17700.						
Stddev	2.4	3.6	303.	1.						
%RSD	.04409	.12563	.27092	.00824						
#1	5448.2	2849.9	112110.	17701.						
#2	5451.6	2855.0	111680.	17698.						

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Sample Name: ICSAB Acquired: 7/30/2014 12:40:53 Type: QC
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.050	520.0	2.056	5147	1.004	4833	4785	5038	460.0
Stddev	.001	4.0	.003	.0033	.002	.0017	.0017	.0044	2.1
%RSD	.0988	.7769	.1580	.6319	.2194	.3447	.3458	.8749	.4673
#1	1.049	517.1	2.058	5170	1.006	4821	4773	5069	461.5
#2	1.051	522.9	2.053	5124	1.003	4844	4797	5006	458.5

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.038	4727	4709	5171	180.8	-1277	5257	523.3	4893
Stddev	.007	.0025	.0016	.0016	.6	.0136	.0021	2.1	.0002
%RSD	.6739	.5268	.3450	.3109	.3465	10.67	.4049	.3952	.0400
#1	1.043	4744	4697	5160	180.3	-1374	5242	521.8	4891
#2	1.033	4709	4720	5182	181.2	-1181	5272	524.7	4894

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9423	1025	9185	9213	5226	4915	5526	2.124	2.038
Stddev	.0017	.0038	.0024	.0005	.0024	.0035	.0026	.010	.008
%RSD	.1825	3.681	.2664	.0545	.4607	.7037	.4618	.4707	.3924
#1	9435	1052	9202	9216	5209	4890	5544	2.131	2.044
#2	9411	.0999	9168	9209	5243	4939	5508	2.117	2.032

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

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Sample Name: ICSAB Acquired: 7/30/2014 12:40:53 Type: QC
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.008	.9205	.9686	4814	1.829	4784	1.885	.8981	.3575
Stddev	.014	.0045	.0024	.0004	.006	.0004	.001	.0016	.0072
%RSD	.7030	.4849	.2467	.0866	.3397	.0895	.0273	.1754	2.014
#1	2.018	.9237	.9669	4817	1.834	4781	1.884	.8992	.3524
#2	1.999	.9174	.9703	4811	1.825	4788	1.885	.8970	.3626

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5430.9	2840.6	110910.	17498.
Stddev	24.2	14.7	194.	82.
%RSD	.44496	.51658	.17512	.47030
#1	5413.8	2830.2	110770.	17556.
#2	5447.9	2850.9	111040.	17439.

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Sample Name: MP23418-B1 Acquired: 7/30/2014 12:46:29 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.821	1.915	5187	-0.0009	9579	1.824	4730	.0002	23.17
Stddev	.0009	.003	.0009	.0012	.0010	.006	.0011	.0005	.10
%RSD	.4833	.1547	.1750	121.4	.1046	.3376	.2235	321.3	.4414
#1	1.827	1.912	5194	-0.001	9572	1.820	4722	-0.002	23.10
#2	1.815	1.917	5181	-0.018	9586	1.829	4737	.0005	23.24

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5139	4743	4721	4574	1.876	26.24	-0.0563	23.12	4788
Stddev	.0000	.0003	.0017	.0017	.003	.08	.0007	.08	.0014
%RSD	.0026	.0727	.3643	.3735	.1575	.2979	1.324	.3256	.2850
#1	5139	4741	4733	4586	1.874	26.18	-0.0558	23.06	4797
#2	5139	4746	4709	4562	1.878	26.29	-0.0568	23.17	4778

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4664	F 1203.	4808	9478	-0.0022	-0.0036	0.168	4909	5444
Stddev	.0000	15.	.0009	.0023	.0003	.0035	.0005	.0001	.0020
%RSD	.0009	1.232	.1928	.2395	15.21	98.28	3.003	.0265	.3597
#1	4664	1192.	4802	9460	-0.0025	-0.0061	.0172	4910	5458
#2	4664	1213.	4815	9492	-0.0020	-0.0011	.0164	4908	5430

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0589	.9035	4596	4739	4544	4745	.0235	4781	1149
Stddev	.0004	.0003	.0011	.0010	.0023	.0015	.0012	.0004	.0152
%RSD	.6687	.0374	.2389	.2017	.5117	.3164	4.918	.0814	13.26
#1	.0592	.9033	4588	4746	4527	4756	.0244	4779	1257
#2	.0586	.9038	4604	4732	4560	4734	.0227	4784	1041

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Sample Name: MP23418-B1 Acquired: 7/30/2014 12:46:29 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5299.9	2868.0	111750.	17854.
Stddev	8.4	4.2	169.	92.
%RSD	.15783	.14718	.15119	.51274
#1	5305.8	2871.0	111630.	17918.
#2	5294.0	2865.0	111870.	17789.

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Sample Name: MP23418-MB1 Acquired: 7/30/2014 12:52:02 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0115	.0007	.0007	.0031	.0001	.0000	.0002	.0175
Stddev	.0001	.0048	.0001	.0003	.0003	.0001	.0001	.0005	.0010
%RSD	170.8	41.96	19.34	52.63	8.980	91.96	226.4	286.5	5.610
#1	-.0000	.0081	.0006	-.0009	.0032	.0000	.0001	.0005	.0168
#2	.0001	.0150	.0008	-.0004	.0029	.0002	-.0000	-.0002	.0182
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0001	-.0001	.0003	.0112	.0298	.0009	.0230	.0005
Stddev	.0000	.0001	.0002	.0002	.0013	.0040	.0005	.0156	.0000
%RSD	35.24	95.32	165.5	54.67	11.91	13.38	50.48	67.81	2.098
#1	.0001	.0001	-.0003	.0004	.0121	.0326	.0006	.0120	.0005
#2	.0001	.0000	.0000	.0002	.0102	.0270	.0013	.0340	.0005
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0021	.1934	.0001	.0005	.0002	-.0018	.0022	.0003	.0006
Stddev	.0002	.0005	.0003	.0001	.0003	.0025	.0000	.0005	.0005
%RSD	10.77	.2517	233.9	20.74	149.9	142.0	1.760	168.0	83.34
#1	.0023	.1930	.0003	.0006	.0004	.0000	.0021	.0006	.0009
#2	.0019	.1937	-.0001	.0004	-.0000	-.0035	.0022	-.0001	.0002
Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0322	.0006	.0001	.0003	.0006	.0000	.0114	.0006	.0003
Stddev	.0005	.0002	.0000	.0001	.0002	.0002	.0010	.0001	.0001
%RSD	1.591	33.42	20.18	23.49	39.19	392.2	8.865	8.956	28.48
#1	.0318	.0007	.0001	.0003	.0007	-.0001	.0121	.0006	.0003
#2	.0325	.0005	.0000	.0002	.0004	.0002	.0106	.0006	.0002

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Sample Name: MP23418-MB1 Acquired: 7/30/2014 12:52:02 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6878.6	3249.5	129690.	18668.
Stddev	3.2	4.6	546.	90.
%RSD	.04619	.14053	.42070	.47943
#1	6880.9	3252.8	129310.	18732.
#2	6876.4	3246.3	130080.	18605.

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Sample Name: MP23418-S1 Acquired: 7/30/2014 12:57:43 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1921	2.124	.5463	-.0027	1.035	2.322	.4685	.0014	F 607.8
Stddev	.0010	.003	.0028	.0004	.000	.005	.0004	.0010	3.5
%RSD	.5409	.1405	.5107	15.92	.0397	.2335	.0824	73.77	.5687
#1	.1913	2.122	.5443	-.0024	1.035	2.326	.4688	.0021	610.2
#2	.1928	2.126	.5482	-.0030	1.035	2.318	.4683	.0007	605.3
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5401	.4777	.4609	.4807	1.972	30.37	-.0448	54.57	3.752
Stddev	.0002	.0006	.0029	.0021	.001	.06	.0002	.07	.023
%RSD	.0305	.1219	.6313	.4372	.0273	.2135	.5154	.1269	.6134
#1	.5400	.4773	.4589	.4792	1.971	30.42	-.0449	54.62	3.736
#2	.5402	.4781	.4630	.4821	1.972	30.33	-.0446	54.52	3.769
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4722	F 1256.	.4803	.9499	-.0223	-.0018	9.936	.5164	.5700
Stddev	.0017	1.	.0012	.0011	.0002	.0030	.028	.0001	.0008
%RSD	.3530	.1025	.2448	.1172	.9526	188.6	.2832	.0263	.1353
#1	.4710	1255.	.4795	.9491	-.0225	-.0037	9.916	.5163	.5705
#2	.4734	1257.	.4811	.9507	-.0222	.0005	9.956	.5165	.5694
Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.70	.8993	1.295	.4831	.4482	.4767	.0155	.5667	.0241
Stddev	.02	.0015	.002	.0025	.0033	.0032	.0002	.0012	.0010
%RSD	.1400	.1676	.1736	.5120	.7445	.6709	1.420	.2121	4.306
#1	15.69	.8983	1.297	.4813	.4459	.4744	.0154	.5658	.0249
#2	15.72	.9004	1.294	.4848	.4506	.4790	.0157	.5675	.0234

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Sample Name: MP23418-S1 Acquired: 7/30/2014 12:57:43 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4964.5	2680.7	107270.	17240.
Stddev	4.7	3.1	671.	31.
%RSD	.09480	.11539	.62548	.17698
#1	4967.9	2682.9	107740.	17218.
#2	4961.2	2678.5	106790.	17262.

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Sample Name: MP23418-S2 Acquired: 7/30/2014 13:03:19 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1933	2.188	5.486	-0.0029	1.043	2.365	4.814	.0017	F 618.6
Stddev	.0006	.036	.0019	.0006	.006	.037	.0074	.0003	8.9
%RSD	.3035	1.645	.3403	19.72	.5979	1.565	1.543	17.08	1.443
#1	.1937	2.213	5.473	-0.0025	1.039	2.391	4.866	.0019	624.9
#2	.1929	2.163	5.499	-0.0033	1.047	2.339	4.761	.0015	612.3
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.467	4.822	4.591	4.757	2.038	30.91	-0.0439	55.62	3.752
Stddev	.0022	.0021	.0001	.0015	.030	.44	.0011	1.03	.008
%RSD	.4043	.4405	.0265	.3098	1.482	1.416	2.598	1.856	.2159
#1	.5451	.4807	.4590	.4767	2.059	31.22	-.0448	56.35	3.758
#2	.5482	.4837	.4592	.4746	2.016	30.60	-.0431	54.89	3.746
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.784	F 1275.	4.856	.9617	-0.0229	-0.0010	9.958	.5203	.5780
Stddev	.0026	11.	.0000	.0044	.0003	.0005	.043	.0053	.0062
%RSD	.5485	.8776	.0074	.4593	1.480	51.95	.4317	1.017	1.068
#1	.4765	1283.	.4856	.9586	-.0226	-.0006	9.927	.5166	.5737
#2	.4802	1267.	.4856	.9649	-.0231	-.0014	9.988	.5241	.5824
Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.82	.9135	1.339	.4803	.4516	.4761	.0134	.5712	.0121
Stddev	.05	.0064	.021	.0009	.0003	.0002	.0002	.0021	.0004
%RSD	.2907	.7055	1.539	.1825	.0755	.0353	1.648	.3633	3.382
#1	15.79	.9090	1.354	.4809	.4513	.4762	.0135	.5697	.0124
#2	15.85	.9181	1.325	.4797	.4518	.4760	.0132	.5727	.0118

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Sample Name: MP23418-S2 Acquired: 7/30/2014 13:03:19 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4947.1	2667.9	107530.	16949.
Stddev	12.6	9.3	219.	255.
%RSD	.25542	.34884	.20346	1.5026
#1	4956.1	2674.5	107380.	16769.
#2	4938.2	2661.3	107690.	17129.

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Sample Name: MC32380-4 Acquired: 7/30/2014 13:08:58 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016	.0455	.0026	-0.0011	.0394	.4742	.0000	.0023	F 603.8
Stddev	.0000	.0046	.0002	.0003	.0001	.0005	.0001	.0007	.4
%RSD	.8157	10.02	9.233	29.66	.1920	.1158	149.6	29.06	.0608
#1	.0015	.0423	.0028	-0.0009	.0393	.4746	.0001	.0018	603.6
#2	.0016	.0488	.0025	-0.0013	.0394	.4738	-.0000	.0028	604.1
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0026	.0057	.0004	.0045	.0721	2.920	-.0428	32.45	3.419
Stddev	.0001	.0001	.0000	.0001	.0016	.007	.0005	.12	.000
%RSD	5.164	1.054	4.641	2.994	2.235	.2297	1.090	.3614	.0099
#1	.0027	.0057	.0005	.0044	.0732	2.925	-.0432	32.37	3.419
#2	.0025	.0057	.0004	.0046	.0709	2.916	-.0425	32.54	3.420
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0119	F 1248.	.0081	.0104	-0.0215	-0.0018	10.39	-.0018	.0029
Stddev	.0001	1.	.0000	.0006	.0006	.0003	.02	.0007	.0004
%RSD	1.058	.1064	.1840	6.123	2.791	15.76	.1480	40.46	12.46
#1	.0120	1249.	.0081	.0109	-.0220	-.0020	10.40	-.0024	.0032
#2	.0119	1247.	.0081	.0100	-.0211	-.0016	10.37	-.0013	.0027
Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	16.10	.0019	.8765	.0040	.0034	.0024	.0071	.1127	.0009
Stddev	.05	.0006	.0001	.0000	.0015	.0001	.0006	.0000	.0001
%RSD	.3095	33.09	.0158	.4876	43.26	5.914	8.205	.0397	10.65
#1	16.14	.0015	.8766	.0040	.0024	.0025	.0075	.1127	.0009
#2	16.07	.0024	.8764	.0040	.0045	.0023	.0067	.1127	.0008

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Sample Name: MC32380-4 Acquired: 7/30/2014 13:08:58 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4963.7	2673.4	107690.	17397.
Stddev	2.8	.1	200.	34.
%RSD	.05558	.00299	.18615	.19460
#1	4965.7	2673.4	107830.	17421.
#2	4961.8	2673.3	107550.	17373.

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Sample Name: MP23418-SD1 Acquired: 7/30/2014 13:14:46 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0029	.0136	.0068	-.0009	.0466	.4686	-.0001	.0074	639.1
Stddev	.0007	.0039	.0016	.0027	.0011	.0072	.0001	.0003	11.4
%RSD	23.80	28.93	24.30	301.8	2.390	1.532	62.82	3.822	1.777
#1	.0024	.0164	.0080	-.0028	.0459	.4635	-.0002	.0072	631.1
#2	.0034	.0108	.0056	.0010	.0474	.4736	-.0001	.0076	647.2

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0030	.0045	.0008	.0060	.0771	2.639	-.0522	32.97	3.583
Stddev	.0005	.0008	.0010	.0006	.0063	.041	.0003	.56	.003
%RSD	16.83	17.35	120.0	10.79	8.131	1.544	.6633	1.708	.0847
#1	.0034	.0039	.0001	.0055	.0816	2.610	-.0525	32.58	3.581
#2	.0027	.0050	.0015	.0064	.0727	2.668	-.0520	33.37	3.585

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0159	1410.	.0080	.0072	-.0258	-.0187	10.09	-.0015	.0056
Stddev	.0005	28.	.0003	.0041	.0005	.0035	.05	.0020	.0012
%RSD	3.116	2.012	4.058	56.46	1.991	18.90	.4907	132.0	21.91
#1	.0163	1390.	.0077	.0043	-.0254	-.0162	10.06	-.0001	.0048
#2	.0156	1430.	.0082	.0101	-.0261	-.0212	10.13	-.0029	.0065

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	15.86	-.0005	.8721	.0070	.0092	.0019	.0299	.1253	.0009
Stddev	.04	.0002	.0145	.0005	.0060	.0001	.0006	.0006	.0003
%RSD	.2526	53.97	1.658	7.426	65.55	3.891	2.131	.4667	29.78
#1	15.63	-.0006	.8619	.0067	.0049	.0018	.0295	.1249	.0007
#2	15.69	-.0003	.8823	.0074	.0134	.0019	.0304	.1257	.0010

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Sample Name: MP23418-SD1 Acquired: 7/30/2014 13:14:46 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5804.9	2996.5	119060.	18072.
Stddev	10.3	6.1	251.	292.
%RSD	.17777	.20433	.21081	1.6153
#1	5812.2	3000.8	119240.	18278.
#2	5797.7	2992.2	118880.	17865.

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Sample Name: MP23418-LB1 Acquired: 7/30/2014 13:20:29 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0000	-.0046	-.0006	-.0002	.0102	.0018	-.0000	.0002	.0292
Stddev	.0000	.0029	.0002	.0004	.0004	.0001	.0000	.0005	.0039
%RSD	61.75	63.50	29.65	32.05	3.459	7.184	197.4	243.4	13.46
#1	-.0000	-.0067	-.0008	-.0002	.0104	.0017	-.0000	-.0001	.0320
#2	-.0001	-.0026	-.0005	-.0003	.0099	.0019	-.0000	.0005	.0264

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0000	-.0001	.0002	.0007	.0095	.0295	-.0589	.0177	.0005
Stddev	.0000	.0000	.0001	.0001	.0002	.0341	.0011	.0328	.0000
%RSD	215.3	36.12	60.11	13.66	2.545	115.5	1.826	185.4	.4371
#1	-.0000	-.0002	.0001	.0007	.0094	.0054	-.0596	-.0055	.0005
#2	.0000	-.0001	.0002	.0006	.0097	.0536	-.0581	.0409	.0005

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0093	F 1253.	.0037	.0010	-.0008	-.0035	.0189	-.0004	.0025
Stddev	.0002	19.	.0000	.0001	.0008	.0033	.0002	.0008	.0001
%RSD	2.392	1.546	1.327	12.41	98.83	94.14	1.061	233.9	5.663
#1	.0095	1266.	.0037	.0009	-.0002	-.0012	.0191	-.0010	.0026
#2	.0092	1239.	.0038	.0011	-.0014	-.0058	.0188	.0002	.0024

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0381	.0025	.0005	.0001	.0041	.0001	.0031	-.0035	.0001
Stddev	.0005	.0002	.0000	.0002	.0006	.0003	.0009	.0001	.0001
%RSD	1.299	9.745	.7607	114.9	14.07	351.2	28.64	1.892	153.8
#1	.0384	.0027	.0005	.0000	.0045	.0003	.0025	-.0035	.0002
#2	.0377	.0023	.0005	.0002	.0037	-.0001	.0037	-.0035	-.0000

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Sample Name: MP23418-LB1 Acquired: 7/30/2014 13:20:29 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5314.9	2838.8	110880.	17714.
Stddev	4.1	4.0	234.	132.
%RSD	.07633	.14007	.21082	.74639
#1	5317.8	2841.6	111040.	17620.
#2	5312.1	2836.0	110710.	17807.

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Sample Name: CCV Acquired: 7/30/2014 13:26:17 Type: QC
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2465	9.897	1.969	1.975	1.985	1.987	1.982	2.008	9.904
Stddev	.0020	.124	.009	.009	.008	.028	.031	.012	.157
%RSD	.7930	1.254	.4838	.4800	.4025	1.413	1.545	.5853	1.589
#1	.2451	9.985	1.975	1.968	1.991	2.007	2.004	2.017	10.02
#2	.2478	9.809	1.962	1.981	1.980	1.968	1.960	2.000	9.793

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass None Chk Pass
Value
Range

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.982	1.954	1.944	1.921	9.966	9.796	1.968	9.828	1.985
Stddev	.007	.007	.016	.014	.156	.151	.030	.126	.014
%RSD	.3517	.3735	.8315	.7424	1.561	1.543	1.531	1.286	.6802
#1	1.987	1.959	1.932	1.911	10.08	9.902	1.990	9.917	1.976
#2	1.977	1.949	1.955	1.931	9.856	9.689	1.947	9.738	1.995

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.983	9.968	1.955	1.951	1.948	1.961	1.977	1.967	1.967
Stddev	.001	.160	.008	.009	.011	.009	.007	.005	.010
%RSD	.0576	1.600	.4131	.4702	.5735	.4613	.3447	.2782	.5069
#1	1.983	10.08	1.961	1.957	1.940	1.954	1.982	1.971	1.974
#2	1.982	9.855	1.950	1.944	1.956	1.967	1.973	1.963	1.959

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

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Sample Name: CCV Acquired: 7/30/2014 13:26:17 Type: QC
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.033	1.989	1.999	1.948	1.988	1.939	1.928	1.974	1.935
Stddev	.010	.008	.029	.014	.009	.014	.001	.006	.019
%RSD	.4997	.4012	1.445	.6948	.4510	.6968	.0408	.3265	.9936
#1	2.040	1.994	2.020	1.938	2.004	1.929	1.928	1.979	1.922
#2	2.026	1.983	1.979	1.957	1.992	1.949	1.929	1.970	1.949

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6555.9	3212.9	127480.	18068.
Stddev	17.2	8.1	669.	278.
%RSD	.26178	.25295	.52477	1.5364
#1	6543.7	3207.1	127950.	17871.
#2	6568.0	3218.6	127010.	18264.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.983	9.968	1.955	1.951	1.948	1.961	1.977	1.967	1.967
Stddev	.001	.160	.008	.009	.011	.009	.007	.005	.010
%RSD	.0576	1.600	.4131	.4702	.5735	.4613	.3447	.2782	.5069
#1	1.983	10.08	1.961	1.957	1.940	1.954	1.982	1.971	1.974
#2	1.982	9.855	1.950	1.944	1.956	1.967	1.973	1.963	1.959

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

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Sample Name: CCB Acquired: 7/30/2014 13:31:42 Type: QC
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	-.0002	-.0000	.0014	.0028	.0001	.0001	.0006	.0023
Stddev	.0002	.0036	.0001	.0003	.0003	.0002	.0001	.0007	.0008
%RSD	63.66	1636.	342.4	23.33	10.74	133.9	47.87	130.1	33.20
#1	.0002	.0023	-.0001	.0012	.0026	.0000	.0001	.0011	.0018
#2	.0004	-.0028	-.0000	.0017	.0030	.0003	.0001	.0000	.0029

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0002	.0002	-.0001	.0028	.0223	.0004	.0163	.0002
Stddev	.0001	.0001	.0000	.0002	.0006	.0187	.0004	.0062	.0000
%RSD	35.88	46.52	4.520	191.6	22.30	83.63	102.2	37.96	14.22
#1	.0003	.0001	.0002	.0000	.0032	.0091	.0006	.0206	.0002
#2	.0002	.0002	.0002	-.0003	.0023	.0355	.0001	.0119	.0003

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0063	.1096	.0004	-.0004	.0009	.0007	.0001	.0003	.0017
Stddev	.0009	.0092	.0002	.0002	.0004	.0019	.0007	.0004	.0000
%RSD	14.87	8.392	45.22	56.83	51.94	287.6	993.8	112.7	2.601
#1	.0070	.1031	.0002	-.0005	.0005	.0020	-.0004	.0006	.0017
#2	.0057	.1161	.0005	-.0002	.0012	-.0007	.0006	.0001	.0017

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

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Sample Name: CCB Acquired: 7/30/2014 13:31:42 Type: QC
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011	.0003	.0001	.0006	.0003	.0001	F .0145	.0002	.0012
Stddev	.0003	.0003	.0000	.0002	.0004	.0002	.0001	.0001	.0001
%RSD	30.69	82.32	34.23	30.07	113.8	177.4	.9385	64.85	10.04
#1	.0014	.0005	.0001	.0005	.0001	-.0000	.0146	.0001	.0013
#2	.0009	.0001	.0002	.0007	.0006	.0003	.0144	.0003	.0011

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Fail Chk Pass Chk Pass
High Limit
Low Limit

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6862.6	3247.5	128810.	18345.
Stddev	14.2	5.8	210.	29.
%RSD	.20641	.17916	.16321	.15878
#1	6872.6	3251.6	128660.	18324.
#2	6852.5	3243.3	128960.	18365.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Fail Chk Pass Chk Pass
High Limit
Low Limit

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0063	.1096	.0004	-.0004	.0009	.0007	.0001	.0003	.0017
Stddev	.0009	.0092	.0002	.0002	.0004	.0019	.0007	.0004	.0000
%RSD	14.87	8.392	45.22	56.83	51.94	287.6	993.8	112.7	2.601
#1	.0070	.1031	.0002	-.0005	.0005	.0020	-.0004	.0006	.0017
#2	.0057	.1161	.0005	-.0002	.0012	-.0007	.0006	.0001	.0017

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Fail Chk Pass Chk Pass
High Limit
Low Limit

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Sample Name: MP23418-LS1 Acquired: 7/30/2014 13:37:24 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1782	1.973	.5233	-.0006	1.077	2.010	.4858	.0010	213.5
Stddev	.0006	.006	.0014	.0002	.000	.004	.0019	.0001	1.0
%RSD	.3298	.3144	.2751	27.34	.0007	.1920	.3920	9.576	.4773
#1	.1787	1.977	.5243	-.0005	1.077	2.007	.4844	.0009	212.7
#2	.1778	1.968	.5223	-.0007	1.077	2.012	.4871	.0010	214.2
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5257	.4803	.5784	.4798	1.936	66.42	.0198	24.28	.4954
Stddev	.0001	.0003	.0015	.0000	.009	.17	.0003	.04	.0012
%RSD	.0144	.0661	.2615	.0010	.4653	.2556	1.278	.1537	.2513
#1	.5257	.4805	.5773	.4798	1.929	66.30	.0200	24.25	.4945
#2	.5258	.4800	.5794	.4798	1.942	66.54	.0196	24.30	.4963
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5055	71.89	.4895	.9848	-.0084	-.0006	F 92.91	.5152	.5254
Stddev	.0007	.15	.0001	.0017	.0007	.0004	.12	.0012	.0005
%RSD	.1452	.2027	.0170	.1728	8.548	75.05	.1292	.2377	.0997
#1	.5050	71.78	.4895	.9860	-.0079	-.0003	92.99	.5161	.5250
#2	.5060	71.99	.4894	.9836	-.0089	-.0009	92.82	.5144	.5257
Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.147	.9909	2.249	.4856	.4977	.4853	.0266	.4930	.0671
Stddev	.003	.0016	.004	.0008	.0023	.0013	.0000	.0001	.0066
%RSD	.0635	.1604	.1575	.1671	.4710	.2646	.0047	.0150	9.782
#1	4.149	.9920	2.246	.4850	.4994	.4844	.0266	.4929	.0717
#2	4.145	.9898	2.251	.4862	.4961	.4862	.0266	.4930	.0624

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Sample Name: MP23418-LS1 Acquired: 7/30/2014 13:37:24 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5912.2	2961.6	119100.	17854.
Stddev	3.1	2.0	409.	68.
%RSD	.05293	.06723	.34373	.37808
#1	5914.4	2963.0	119380.	17902.
#2	5910.0	2960.2	118810.	17807.

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Sample Name: MC32380-3 Acquired: 7/30/2014 13:42:52 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	-.0084	.0052	.0003	.0167	.0862	.0000	.0004	193.3
Stddev	.0000	.0052	.0004	.0004	.0004	.0002	.0000	.0002	.1
%RSD	7.237	62.00	8.346	26.76	2.118	.1979	488.9	45.17	.0560
#1	.0005	-.0047	.0049	.0003	.0169	.0960	-.0000	.0006	193.3
#2	.0006	-.0120	.0055	.0002	.0164	.0963	.0000	.0003	193.2
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0003	.0995	.0134	.0046	41.37	.0204	.0941	-.0005
Stddev	.0000	.0000	.0006	.0002	.0011	.02	.0006	.0106	.0000
%RSD	.8882	13.71	.6173	1.518	24.78	.0536	2.971	11.25	.5615
#1	.0003	.0003	.0991	.0136	.0038	41.38	.0200	.1016	-.0005
#2	.0003	.0002	.0999	.0133	.0054	41.35	.0209	.0866	-.0005
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0243	47.23	.0070	-.0001	-.0074	-.0025	F 93.93	.0009	.0006
Stddev	.0001	.02	.0000	.0006	.0002	.0013	.18	.0001	.0011
%RSD	.5101	.0480	.4152	566.6	2.200	50.89	.1939	14.57	179.4
#1	.0244	47.21	.0070	-.0005	-.0075	-.0034	93.80	.0010	.0014
#2	.0243	47.25	.0070	.0003	-.0073	-.0016	94.06	.0008	-.0002
Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.180	.0018	1.806	.0012	.0005	.0010	.0216	.0050	.0029
Stddev	.007	.0002	.000	.0001	.0008	.0004	.0008	.0000	.0001
%RSD	.1656	11.35	.0029	8.832	160.4	38.14	3.855	.4169	2.577
#1	4.175	.0019	1.806	.0011	.0010	.0007	.0210	.0050	.0029
#2	4.185	.0016	1.806	.0013	-.0001	.0013	.0222	.0050	.0028

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Sample Name: MC32380-3 Acquired: 7/30/2014 13:42:52 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6050.3	3009.7	121270.	18159.
Stddev	16.5	10.6	58.	4.
%RSD	.27321	.35105	.04761	.02050
#1	6061.9	3017.1	121310.	18156.
#2	6038.6	3002.2	121230.	18161.

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Sample Name: MP23418-LS2 Acquired: 7/30/2014 13:48:29 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1969	2.113	.5739	-0.0017	6.218	3.668	.5070	-0.0005	146.2
Stddev	.0018	.002	.0013	.0005	.009	.010	.0016	.0002	.4
%RSD	.9303	.0815	.2208	29.05	.1529	.2682	.3129	32.36	.2658
#1	.1982	2.114	.5748	-0.0021	6.225	3.661	.5059	-0.0004	145.9
#2	.1956	2.112	.5730	-0.0014	6.211	3.675	.5082	-0.0007	146.5
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5620	.5604	.5142	.5139	50.12	221.5	.2028	70.77	1.591
Stddev	.0023	.0004	.0052	.0052	.13	.5	.0019	.01	.012
%RSD	.4164	.0666	1.020	1.015	.2548	.2122	.9406	.0089	.7272
#1	.5636	.5607	.5179	.5176	50.03	221.2	.2015	70.78	1.599
#2	.5603	.5602	.5104	.5102	50.21	221.8	.2042	70.77	1.583
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.062	F 839.1	.7644	1.012	-0.0089	-0.0106	F 48.82	.5454	.5940
Stddev	.000	7.5	.0010	.003	.0002	.0009	.03	.0010	.0014
%RSD	.0288	.8950	.1342	.2786	2.763	8.469	.0679	.1906	.2349
#1	1.062	844.4	.7652	1.010	-0.0090	-0.0099	48.84	.5447	.5950
#2	1.062	833.8	.7637	1.014	-0.0087	-0.0112	48.80	.5462	.5931
Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.731	.9901	2.257	.5159	.4841	.5156	.0251	.9547	.0225
Stddev	.015	.0023	.004	.0041	.0011	.0037	.0006	.0000	.0016
%RSD	.3129	.2316	.1732	.8010	.2350	.7112	2.261	.0050	7.298
#1	4.742	.9884	2.254	.5189	.4833	.5181	.0255	.9548	.0237
#2	4.721	.9917	2.260	.5130	.4850	.5130	.0247	.9547	.0213

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Sample Name: MC32283-2 Acquired: 7/30/2014 13:54:00 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0001	.0155	.0017	-0.0007	5.197	1.680	-0.0000	.0003	121.5
Stddev	.0003	.0006	.0010	.0001	.004	.005	.0000	.0008	.4
%RSD	193.5	3.845	56.25	12.58	.0863	.2867	10.17	260.2	.3071
#1	.0001	.0159	.0010	-0.0006	5.200	1.664	-0.0000	.0008	121.8
#2	-0.0003	.0150	.0024	-0.0007	5.194	1.657	-0.0000	-0.0002	121.2
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0537	.0032	.0093	48.56	193.9	.2030	45.71	1.078
Stddev	.0001	.0002	.0002	.0002	.13	7	.0002	.03	.001
%RSD	31.08	.3415	6.841	1.709	.2724	.3682	.0784	.0714	.0431
#1	.0002	.0536	.0030	.0092	48.65	194.4	.2031	45.74	1.079
#2	.0002	.0539	.0034	.0094	48.47	193.4	.2028	45.69	1.078
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5682	F 818.5	.2615	.0044	-0.0080	-0.0074	F 48.93	.0028	.0042
Stddev	.0010	11.2	.0004	.0006	.0005	.0003	.03	.0003	.0022
%RSD	.1817	1.368	.1669	12.66	5.638	3.587	.0576	12.27	50.76
#1	.5675	826.4	.2618	.0040	-0.0077	-0.0076	48.91	.0026	.0058
#2	.5689	810.6	.2612	.0048	-0.0084	-0.0072	48.95	.0031	.0027
Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.734	.0022	1.761	.0014	.0038	.0006	.0183	.4457	.0022
Stddev	.010	.0001	.005	.0001	.0002	.0004	.0011	.0006	.0000
%RSD	.2156	3.343	.2758	6.556	5.500	59.32	6.121	.1263	1.950
#1	4.727	.0022	1.765	.0014	.0040	.0009	.0175	.4453	.0022
#2	4.741	.0023	1.758	.0013	.0037	.0003	.0191	.4461	.0022

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Sample Name: MP23418-LS2 Acquired: 7/30/2014 13:48:29 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5345.8	2792.5	110750.	17541.
Stddev	14.6	10.4	777.	16.
%RSD	.27357	.37096	.70197	.09365
#1	5335.5	2785.2	110200.	17529.
#2	5356.1	2799.8	111300.	17553.

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Sample Name: MC32283-2 Acquired: 7/30/2014 13:54:00 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5387.0	2805.7	111190.	17631.
Stddev	4.1	1.1	218.	47.
%RSD	.07593	.03859	.19595	.26522
#1	5384.1	2806.4	111350.	17598.
#2	5389.9	2804.9	111040.	17664.

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Sample Name: MC32355-1 Acquired: 7/30/2014 13:59:40 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0673	F -.0042	.0045	F 232.3	.0038	-0.0000	-0.0286
Stddev	.0000	.0019	.0000	.0001	.0	.0001	.0000	.0002
%RSD	28.74	2.846	.7461	2.644	.0208	1.553	325.0	.8469
#1	.0001	.0686	-.0042	.0046	232.3	.0038	-0.0000	-.0284
#2	.0001	.0659	-.0041	.0044	232.3	.0039	.0000	-.0288
Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.663	.0020	.0018	.0069	.0198	.3195	279.1	-0.0117
Stddev	.000	.0001	.0002	.0003	.0000	.0016	.9	.0005
%RSD	.0127	3.126	10.43	3.755	.1022	.5115	.3121	3.978
#1	1.663	.0019	.0017	.0067	.0198	.3183	279.8	-0.0114
#2	1.663	.0020	.0019	.0071	.0198	.3206	278.5	-0.0121
Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.05	.0101	.6073	F 775.8	.0027	.0062	-0.0074	-0.0035
Stddev	.04	.0001	.0006	9.4	.0000	.0005	.0006	.0042
%RSD	.3039	.6361	.0942	1.209	.4043	8.660	7.917	120.4
#1	12.03	.0101	.6077	769.2	.0027	.0066	-0.0070	-0.0065
#2	12.08	.0102	.6069	782.5	.0027	.0058	-0.0078	-0.0005
Elem	S_1820	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 26.10	.0078	.2411	7.975	.2436	.0037	-0.0007	F -.0232
Stddev	.01	.0006	.0004	.012	.0002	.0000	.0000	.0011
%RSD	.0336	7.158	.1528	.1477	.0784	.1587	3.924	4.914
#1	26.09	.0074	.2408	7.966	.2435	.0037	-0.0007	-0.0224
#2	26.10	.0082	.2413	7.983	.2437	.0037	-0.0007	-0.0240

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Sample Name: MC32355-1 Acquired: 7/30/2014 13:59:40 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	.0007	F -.1009	.0200	.0105
Stddev	.0001	.0022	.0001	.0004
%RSD	14.52	2.190	.5158	3.667
#1	.0006	-.0994	.0200	.0107
#2	.0008	-.1025	.0201	.0102
Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5323.1	2346.6	97929.	18246.
Stddev	10.2	4.3	205.	2.
%RSD	.19237	.18435	20972	.00961
#1	5315.9	2343.5	97784.	18245.
#2	5330.4	2349.6	98074.	18248.

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Sample Name: MC32355-2 Acquired: 7/30/2014 14:05:20 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0615	F -.0042	.0037	F 222.4	.0035	.0000	-0.0272
Stddev	.0003	.0034	.0019	.0004	.4	.0001	.0000	.0004
%RSD	1309.	5.492	44.10	10.41	.1750	3.343	128.3	1.452
#1	.0002	.0591	-.0055	.0034	222.7	.0036	.0000	-0.0275
#2	-.0002	.0639	-.0029	.0040	222.2	.0034	.0000	-0.0270
Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.623	.0020	.0015	.0067	.0197	.3015	267.2	-0.0111
Stddev	.001	.0000	.0001	.0001	.0001	.0024	.7	.0004
%RSD	.0784	2.006	8.399	1.633	.5955	.7892	.2614	3.262
#1	1.624	.0020	.0016	.0067	.0197	.2998	267.7	-0.0109
#2	1.622	.0020	.0015	.0066	.0198	.3032	266.7	-0.0114
Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	12.52	.0098	.6111	F 750.8	.0025	.0052	-0.0076	-0.0031
Stddev	.06	.0001	.0008	5.8	.0003	.0002	.0005	.0002
%RSD	.4901	.8174	.1375	.7685	10.31	3.198	6.687	5.586
#1	12.48	.0098	.6117	754.9	.0027	.0051	-0.0079	-0.0032
#2	12.57	.0099	.6105	746.7	.0024	.0054	-0.0072	-0.0029
Elem	S_1820	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 26.09	.0100	.2338	7.684	.2356	.0036	-0.0007	F -.0253
Stddev	.02	.0002	.0033	.012	.0002	.0000	.0001	.0005
%RSD	.0674	1.677	1.419	.1533	.0642	.1103	9.948	2.005
#1	26.10	.0099	.2314	7.692	.2355	.0036	-0.0006	-0.0249
#2	26.07	.0101	.2361	7.676	.2357	.0036	-0.0007	-0.0256

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Sample Name: MC32355-2 Acquired: 7/30/2014 14:05:20 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	.0010	-0.0953	.0264	.0070
Stddev	.0000	.0003	.0001	.0001
%RSD	.3035	.2781	.2116	1.096
#1	.0010	-.0954	.0263	.0071
#2	.0010	-.0951	.0264	.0069
Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5350.5	2374.5	100070.	18455.
Stddev	22.7	11.3	600.	45.
%RSD	.42443	.47581	.59929	.24606
#1	5334.4	2366.5	99643.	18422.
#2	5366.5	2382.5	100490.	18487.

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Sample Name: MC32356-1 Acquired: 7/30/2014 14:11:00 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	k .0007	k 8.393	k .0137	k .0010	k .4425	.0355	k .0003	^ *****
Stddev	.0003	.027	.0006	.0009	.0242	.0002	.0000	-----
%RSD	40.34	.3263	4.668	87.63	5.468	.4394	.2441	-----
#1	k .0005	k 8.374	k .0142	k .0004	k .4596	.0354	k .0003	^ -----
#2	k .0008	k 8.412	k .0133	k .0017	k .4254	.0356	k .0003	^ -----
Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	83.32	k .1340	k .1272	k 9.297	^ *****	45.99	5.549	-0.411
Stddev	.21	.0007	.0003	.029	-----	.03	.019	.0002
%RSD	.2532	.4910	.2089	.3108	-----	.0704	.3453	.5952
#1	83.47	k .1344	k .1270	k 9.317	^ -----	46.01	5.535	-.0413
#2	83.18	k .1335	k .1274	k 9.276	^ -----	45.97	5.563	-.0409
Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	k 6.018	k .7121	k .1582	F 1260.	kF 136.5	k 3.049	k .0605	k .0432
Stddev	.033	.0015	.0005	5.	.1	.005	.0003	.0023
%RSD	.5450	.2039	.3136	.4284	.0859	.1588	.4513	5.290
#1	k 6.041	k .7131	k .1578	1264.	k 136.5	k 3.053	k .0607	k .0448
#2	k 5.994	k .7111	k .1585	1256.	k 136.6	k 3.046	k .0603	k .0416
Elem	S_1820	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	kF 1302.	kF -.0120	k -.0003	k 1.123	k .0112	.1011	k .2742	k .0058
Stddev	2.	.0006	.0005	.004	.0008	.0001	.0006	.0011
%RSD	.1271	4.718	189.8	.3955	7.330	.0615	.2038	19.41
#1	k 1301.	k -.0124	k -.0006	k 1.120	k .0117	.1010	k .2746	k .0066
#2	k 1303.	k -.0116	k .0001	k 1.127	k .0106	.1011	k .2738	k .0050

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Sample Name: MC32356-1 Acquired: 7/30/2014 14:11:00 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	k .0101	k -.0711	k 1.876	k .0371
Stddev	.0001	.0019	.001	.0002
%RSD	.7781	2.658	.0382	.4599
#1	k .0102	k -.0697	k 1.877	k .0370
#2	k .0101	k -.0724	k 1.876	k .0373

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6015.6	2625.2	112180.	17922.
Stddev	5.5	3.3	143.	87.
%RSD	.09086	.12486	.12708	.48294
#1	6019.5	2627.5	112080.	17860.
#2	6011.8	2622.9	112280.	17983.

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Sample Name: MC32380-1 Acquired: 7/30/2014 14:16:50 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0017	.3341	.0008	-.0015	.1921	.3677	-.0000	.0009	F 663.0
Stddev	.0001	.0050	.0003	.0008	.0080	.0064	.0000	.0000	5.3
%RSD	7.152	1.506	41.19	52.05	4.151	1.733	182.6	3.408	.7964
#1	.0017	.3306	.0006	-.0020	.1978	.3722	.0000	.0009	666.8
#2	.0016	.3377	.0010	-.0009	.1865	.3632	-.0000	.0010	659.3
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018	.0022	.0011	.0233	.2471	2.784	-.0352	37.66	2.836
Stddev	.0002	.0000	.0001	.0023	.0043	.050	.0002	.37	.009
%RSD	10.06	.4959	11.97	9.874	1.731	1.778	.5953	.9909	.3330
#1	.0019	.0022	.0012	.0249	.2502	2.819	-.0351	37.92	2.843
#2	.0017	.0022	.0010	.0217	.2441	2.749	-.0354	37.40	2.830
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0100	F 1288.	.0194	.0011	-.0230	-.0013	F 20.16	-.0017	.0044
Stddev	.0000	1.	.0089	.0004	.0008	.0022	.05	.0004	.0011
%RSD	.3728	.0503	45.78	36.61	3.376	173.6	.2388	22.58	25.32
#1	.0100	1288.	.0131	.0014	-.0224	.0003	20.13	-.0015	.0036
#2	.0099	1287.	.0257	.0008	-.0235	-.0028	20.20	-.0020	.0051
Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.889	.0014	1.577	.0172	.0054	.0010	.0047	.0090	.0021
Stddev	.013	.0006	.027	.0000	.0008	.0001	.0009	.0001	.0001
%RSD	.3275	44.62	1.706	.1770	15.78	12.92	20.21	.7268	4.289
#1	3.898	.0010	1.596	.0172	.0060	.0011	.0040	.0091	.0022
#2	3.880	.0019	1.558	.0172	.0048	.0009	.0053	.0090	.0021

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Sample Name: MC32380-1 Acquired: 7/30/2014 14:16:50 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4943.1	2663.9	106330.	17312.
Stddev	5.7	2.8	343.	174.
%RSD	.11529	.10569	.32228	1.0077
#1	4947.1	2665.9	106090.	17188.
#2	4939.1	2661.9	106570.	17435.

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Sample Name: MC32356-1 Acquired: 7/30/2014 14:22:39 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 2.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: 2X

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0243	8.387	.0067	-0.004	.3697	.0362	.0004	^ *****
Stddev	.0004	.007	.0000	.0001	.0094	.0001	.0000	-----
%RSD	1.839	.0819	.7066	30.48	2.538	.3765	6.683	-----
#1	.0246	8.382	.0068	-.0005	.3763	.0361	.0004	^ -----
#2	.0239	8.391	.0067	-.0003	.3631	.0363	.0003	^ -----
Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	84.21	.1596	.1377	9.632	F 465.0	46.03	5.440	-.0425
Stddev	.36	.0008	.0005	.030	.2	.15	.036	.0006
%RSD	.4227	.4910	.3909	.3115	.0324	.3304	.6617	1.487
#1	83.96	.1602	.1380	9.653	465.1	45.92	5.415	-.0430
#2	84.46	.1591	.1373	9.611	464.9	46.13	5.466	-.0421
Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.084	.7286	.1460	F 1345.	F 156.1	3.226	.0626	.0054
Stddev	.063	.0028	.0005	5.	.1	.002	.0007	.0027
%RSD	1.028	.3905	.3385	.3652	.0789	.0757	1.140	49.37
#1	6.040	.7306	.1464	1342.	156.0	3.224	.0620	.0035
#2	6.128	.7266	.1457	1349.	156.2	3.228	.0631	.0073
Elem	S_1820	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 1471.	F -.0376	.0159	1.072	.0107	.1002	.2896	.0073
Stddev	2.	.0015	.0014	.004	.0010	.0003	.0006	.0008
%RSD	.1244	4.088	8.590	.4176	9.151	.2768	.2038	10.65
#1	1470.	-.0387	.0149	1.075	.0114	.1000	.2900	.0078
#2	1472.	-.0365	.0169	1.069	.0100	.1004	.2892	.0067

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Sample Name: MC32356-1 Acquired: 7/30/2014 14:22:39 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 2.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: 2X

Elem	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	.0311	.2130	1.858	.0772
Stddev	.0006	.0005	.004	.0002
%RSD	1.838	.2116	.2300	.2222
#1	.0315	.2133	1.855	.0774
#2	.0307	.2126	1.861	.0771
Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5900.6	2832.3	115600.	18195.
Stddev	11.2	4.6	333.	82.
%RSD	.19059	.16319	.28794	.45271
#1	5892.7	2829.0	115360.	18253.
#2	5908.6	2835.6	115830.	18136.

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Sample Name: MC32356-1 Acquired: 7/30/2014 14:29:10 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 3.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: 3X

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0269	8.529	.0074	-.0028	.3755	.0369	.0004	^ *****
Stddev	.0002	.044	.0014	.0014	.0068	.0001	.0001	-----
%RSD	.7177	.5197	19.45	50.49	1.802	.1534	29.59	-----
#1	.0267	8.560	.0084	-.0038	.3803	.0368	.0005	^ -----
#2	.0270	8.498	.0064	-.0018	.3707	.0369	.0003	^ -----
Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	85.92	.1609	.1419	9.716	F 507.8	47.54	5.457	-.0441
Stddev	.18	.0004	.0009	.009	1.4	.07	.003	.0010
%RSD	.2138	.2502	.6106	.0948	.2811	.1480	.0510	2.169
#1	86.05	.1612	.1413	9.723	506.8	47.58	5.455	-.0434
#2	85.79	.1606	.1425	9.710	508.8	47.49	5.459	-.0448
Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.264	.7386	.1466	F 1411.	F 164.8	3.352	.0620	.0069
Stddev	.023	.0000	.0003	11.	.1	.004	.0014	.0028
%RSD	.3741	.0023	.2122	.7822	.0309	.1301	2.258	39.69
#1	6.247	.7386	.1464	1419.	164.7	3.355	.0629	.0050
#2	6.280	.7386	.1468	1403.	164.8	3.349	.0610	.0089
Elem	S_1820	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 1531.	F -.0353	.0135	1.068	.0100	.1037	.2879	.0048
Stddev	.0006	.0029	.004	.004	.0004	.0003	.0001	.0002
%RSD	.0170	1.769	21.47	.3740	4.387	.2825	.0221	4.782
#1	1531.	-.0349	.0114	1.066	.0097	.1035	.2878	.0047
#2	1530.	-.0357	.0155	1.071	.0104	.1039	.2879	.0050

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Sample Name: MC32356-1 Acquired: 7/30/2014 14:29:10 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 3.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: 3X

Elem	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	.0308	.2411	1.877	.0806
Stddev	.0005	.0021	.000	.0004
%RSD	1.507	.8510	.0221	.5045
#1	.0305	.2396	1.877	.0809
#2	.0311	.2426	1.877	.0804
Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5980.2	2929.3	118370.	18239.
Stddev	4.0	2.5	77.	103.
%RSD	.06764	.08640	.06485	.56229
#1	5977.3	2927.5	118430.	18166.
#2	5983.0	2931.1	118320.	18311.

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Sample Name: CCV Acquired: 7/30/2014 14:40:24 Type: QC									
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2525	9.955	2.015	2.020	2.054	2.000	1.986	2.034	9.999
Stddev	.0000	.014	.002	.004	.003	.004	.001	.004	.039
%RSD	.0149	.1397	.0923	.1919	.1401	.1993	.0260	.2207	.3886
#1	.2525	9.965	2.014	2.018	2.056	2.003	1.987	2.037	9.971
#2	.2525	9.945	2.016	2.023	2.052	1.997	1.986	2.031	10.03
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value									
Range									
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.015	1.997	2.000	1.959	10.02	9.912	1.981	9.926	2.029
Stddev	.005	.000	.001	.002	.01	.011	.007	.008	.001
%RSD	.2631	.0225	.0468	.1184	.1487	.1145	.3574	.0806	.0613
#1	2.019	1.998	1.999	1.961	10.01	9.904	1.986	9.920	2.029
#2	2.011	1.997	2.000	1.958	10.03	9.920	1.976	9.932	2.030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
Value									
Range									
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.019	9.871	1.996	1.990	1.988	2.012	2.083	2.007	2.009
Stddev	.003	.003	.002	.003	.003	.001	.011	.001	.002
%RSD	.1506	.0257	.1006	.1320	.1603	.0678	.5427	.0503	.0801
#1	2.017	9.869	1.995	1.989	1.990	2.013	2.075	2.008	2.010
#2	2.021	9.872	1.997	1.992	1.986	2.011	2.091	2.007	2.008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

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Sample Name: CCV Acquired: 7/30/2014 14:40:24 Type: QC									
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.061	2.016	1.990	1.994	2.040	1.977	1.958	2.031	1.980
Stddev	.003	.001	.003	.001	.004	.001	.001	.000	.005
%RSD	.1665	.0579	.1377	.0704	.2022	.0480	.0297	.0004	.2440
#1	2.063	2.017	1.992	1.995	2.043	1.976	1.958	2.031	1.977
#2	2.058	2.016	1.988	1.993	2.038	1.977	1.959	2.031	1.984
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									
Int. Std.	In2306	Y_2243	Y_3600	Y_3710					
Units	Cts/S	Cts/S	Cts/S	Cts/S					
Avg	6585.7	3236.5	127260.	18359.					
Stddev	9.6	9.2	86.	73.					
%RSD	.14552	.28328	.06776	.39695					
#1	6578.9	3230.1	127320.	18411.					
#2	6592.5	3243.0	127200.	18307.					

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Sample Name: CCB Acquired: 7/30/2014 14:45:49 Type: QC									
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0059	.0004	.0012	F .0347	.0002	.0000	.0006	.0008
Stddev	.0001	.0019	.0004	.0005	.0011	.0001	.0000	.0001	.0003
%RSD	57.91	31.67	93.14	39.09	3.191	42.37	20.22	15.97	36.47
#1	.0001	.0072	.0007	.0009	.0355	.0001	.0000	.0006	.0006
#2	.0003	.0046	.0002	.0015	.0339	.0002	.0000	.0007	.0010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					.0100				
Low Limit					-.0100				
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0001	.0002	F .0038	.0026	.0563	.0007	.0116	.0001
Stddev	.0001	.0000	.0000	.0001	.0002	.0237	.0001	.0039	.0000
%RSD	46.04	37.26	7.876	2.370	9.568	42.04	7.198	33.26	25.66
#1	.0002	.0001	.0002	.0036	.0024	.0731	.0007	.0089	.0002
#2	.0001	.0002	.0002	.0035	.0028	.0396	.0007	.0143	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.0025					
Low Limit				-.0025					
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0052	.0915	.0014	-.0000	.0008	.0011	F .0273	.0010	.0008
Stddev	.0008	.0057	.0000	.0002	.0005	.0000	.0009	.0001	.0005
%RSD	15.96	6.183	2.606	442.5	67.40	2.202	3.397	13.55	58.26
#1	.0058	.0875	.0013	.0001	.0012	.0010	.0266	.0011	.0011
#2	.0046	.0955	.0014	-.0002	.0004	.0011	.0279	.0009	.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit							.0090		
Low Limit							-.0090		

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Sample Name: CCB Acquired: 7/30/2014 14:45:49 Type: QC									
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013	.0001	.0001	.0004	.0007	.0003	F .0114	.0003	.0011
Stddev	.0000	.0003	.0001	.0001	.0003	.0001	.0002	.0002	.0000
%RSD	3.445	307.9	72.30	28.12	37.82	30.03	1.948	48.76	2.299
#1	.0013	-.0001	.0000	.0005	.0005	.0002	.0115	.0002	.0011
#2	.0012	.0003	.0001	.0004	.0008	.0003	.0112	.0005	.0012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit							.0100		
Low Limit							-.0100		
Int. Std.	In2306	Y_2243	Y_3600	Y_3710					
Units	Cts/S	Cts/S	Cts/S	Cts/S					
Avg	6930.1	3274.1	130010.	18291.					
Stddev	5.5	2.0	443.	10.					
%RSD	.07992	.05979	.34083	.05277					
#1	6934.0	3275.4	129690.	18298.					
#2	6926.2	3272.7	130320.	18285.					

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Sample Name: MC32356-1 Acquired: 7/30/2014 14:51:29 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: 5X

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0298	8.524	.0101	.0036	.3332	.0369	.0008	F -.4657
Stddev	.0005	.006	.0021	.0014	.0025	.0007	.0001	.0059
%RSD	1.720	.0711	20.87	38.75	.7533	1.998	12.92	1.277
#1	.0294	8.528	.0086	.0026	.3350	.0364	.0008	-.4699
#2	.0302	8.520	.0116	.0046	.3314	.0374	.0009	-.4615
Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	86.18	.1596	.1434	9.558	F 539.2	48.58	5.326	-.0484
Stddev	.23	.0002	.0011	.018	.6	.00	.013	.0038
%RSD	.2693	.1513	.7440	.1882	.1040	.0085	.2516	7.849
#1	86.34	.1594	.1442	9.571	538.8	48.57	5.317	-.0511
#2	86.01	.1598	.1427	9.545	539.6	48.58	5.336	-.0457
Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.228	.7389	.1518	1453.	F 170.8	3.437	.0629	.0081
Stddev	.001	.0008	.0011	16.	.2	.002	.0019	.0052
%RSD	.0109	.1025	.7487	1.123	.0924	.0577	2.983	64.74
#1	6.228	.7384	.1526	1464.	170.6	3.435	.0643	.0118
#2	6.227	.7395	.1510	1441.	170.9	3.438	.0616	.0044
Elem	S_1820	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 1558.	F -.0300	.0189	1.067	.0079	.1059	.2849	.0067
Stddev	1.	.0015	.0009	.002	.0022	.0002	.0016	.0025
%RSD	.0527	5.061	4.619	.1852	27.36	.1675	.5516	37.38
#1	1559.	-.0311	.0183	1.065	.0064	.1060	.2838	.0084
#2	1558.	-.0289	.0196	1.068	.0095	.1057	.2860	.0049

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Sample Name: MC32356-1 Acquired: 7/30/2014 14:51:29 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: 5X

Elem	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm
Avg	.0297	.2868	1.869	.0875
Stddev	.0008	.0026	.004	.0007
%RSD	2.719	.9114	.1929	.8451
#1	.0291	.2886	1.866	.0870
#2	.0303	.2849	1.871	.0880
Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6117.1	3025.6	121600.	18317.
Stddev	10.8	4.1	121.	33.
%RSD	.17583	.13519	.09989	.18120
#1	6124.7	3028.5	121690.	18294.
#2	6109.5	3022.7	121520.	18341.

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Sample Name: MC32380-2 Acquired: 7/30/2014 14:57:14 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009	.0010	.0033	-.0001	.0757	.1842	-.0000	.0010	254.8
Stddev	.0002	.0089	.0003	.0006	.0006	.0005	.0000	.0005	.5
%RSD	18.83	890.9	8.828	801.6	.7630	.2461	12.81	55.31	.2114
#1	.0010	-.0053	.0035	.0003	.0753	.1839	-.0000	.0006	255.2
#2	.0008	.0073	.0031	-.0005	.0761	.1846	-.0000	.0014	254.4
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	-.0001	.0011	.0027	.1212	60.56	.0181	190.5	1.331
Stddev	.0000	.0000	.0001	.0002	.0003	.07	.0011	.6	.000
%RSD	2.164	20.96	7.743	6.092	.2746	.1193	6.325	.2980	.0147
#1	-.0001	-.0001	.0011	.0026	.1214	60.50	.0189	190.9	1.331
#2	-.0001	-.0001	.0010	.0028	.1209	60.61	.0173	190.1	1.331
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0032	163.3	.0030	.0032	-.0103	-.0008	F 338.0	.0001	.0032
Stddev	.0000	1.4	.0000	.0002	.0004	.0012	2.3	.0006	.0001
%RSD	.3392	.8743	.6942	5.919	3.542	140.1	.6695	532.9	2.465
#1	.0032	164.3	.0030	.0033	-.0101	-.0000	336.4	.0005	.0032
#2	.0032	162.3	.0030	.0030	-.0106	-.0017	339.6	-.0003	.0031
Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	8.811	.0045	1.889	.0026	.0011	.0016	.0093	.0058	.0176
Stddev	.065	.0001	.003	.0000	.0011	.0000	.0007	.0000	.0000
%RSD	.7423	1.137	.1398	1.874	94.29	2.056	7.492	.3977	.1153
#1	8.764	.0045	1.891	.0026	.0004	.0015	.0088	.0057	.0176
#2	8.857	.0044	1.887	.0027	.0019	.0016	.0098	.0058	.0176

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Sample Name: MC32380-2 Acquired: 7/30/2014 14:57:14 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5603.5	2840.5	115170.	17591.
Stddev	34.9	19.4	67.	142.
%RSD	.62229	.68373	.05789	.80585
#1	5628.1	2854.3	115120.	17491.
#2	5578.8	2826.8	115220.	17691.

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Sample Name: CRIB Acquired: 7/30/2014 15:03:03 Type: QC
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0050	.1967	.0113	.0501	.1249	.5042	.0041	.0523	4.959
Stddev	.0001	.0023	.0003	.0005	.0007	.0003	.0000	.0003	.004
%RSD	1.111	1.175	2.486	.9311	.5512	.0625	.3828	.6590	.0857
#1	.0050	.1951	.0111	.0505	.1254	.5040	.0041	.0521	4.956
#2	.0050	.1984	.0115	.0498	.1244	.5045	.0041	.0525	4.962

Check ? Chk Pass Chk Pass Chk Pass None Chk Pass Chk Pass Chk Pass None Chk Pass
Value
Range

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0040	.0510	.0109	.0235	.1030	4.975	.4924	4.958	.0162
Stddev	.0001	.0001	.0000	.0006	.0006	.028	.0011	.025	.0001
%RSD	1.285	.2148	.0530	2.502	.6161	.5708	.2219	.5009	.5389
#1	.0040	.0509	.0109	.0231	.1025	4.955	.4917	4.940	.0162
#2	.0039	.0510	.0109	.0240	.1034	4.995	.4932	4.976	.0163

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass None Chk Pass Chk Pass
Value
Range

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1068	4.899	.0424	.0098	.0501	.0504	.0986	.0058	.0269
Stddev	.0004	.001	.0003	.0006	.0007	.0016	.0129	.0005	.0012
%RSD	.3535	.0168	.6265	5.836	1.377	3.098	13.09	8.379	4.545
#1	.1066	4.899	.0422	.0102	.0496	.0515	.0894	.0061	.0261
#2	.1071	4.900	.0426	.0094	.0506	.0493	.1077	.0054	.0278

Check ? Chk Pass Chk Pass Chk Pass Chk Pass None None None Chk Pass Chk Pass
Value
Range

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Sample Name: CRIB Acquired: 7/30/2014 15:03:03 Type: QC
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1045	.1010	.0101	.0513	.0053	.0104	.1082	.1090	.0480
Stddev	.0005	.0000	.0000	.0004	.0004	.0000	.0005	.0002	.0003
%RSD	.4994	.0140	.4774	.7275	8.435	.0703	.4329	.2075	.6594
#1	.1041	.1010	.0100	.0510	.0056	.0104	.1079	.1091	.0478
#2	.1049	.1010	.0101	.0516	.0050	.0104	.1085	.1088	.0483

Check ? None Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass None Chk Pass None
Value
Range

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6704.1	3204.0	126340.	18269.
Stddev	10.8	7.7	112.	23.
%RSD	.16077	.24188	.08854	.12763
#1	6696.5	3198.5	126420.	18252.
#2	6711.8	3209.5	126260.	18285.

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Sample Name: CRI Acquired: 7/30/2014 15:08:40 Type: QC
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0051	.2014	.0042	.0493	.1215	.0504	.0041	.0525	5.067
Stddev	.0000	.0010	.0003	.0012	.0008	.0008	.0001	.0004	.083
%RSD	.0611	.5091	7.235	2.422	.6211	1.539	2.533	.8170	1.640
#1	.0051	.2021	.0039	.0485	.1220	.0510	.0042	.0522	5.126
#2	.0051	.2006	.0044	.0502	.1209	.0499	.0040	.0528	5.009

Check ? Chk Pass Chk Pass Chk Pass None Chk Pass Chk Pass Chk Pass None Chk Pass
Value
Range

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0039	.0506	.0105	.0228	.1080	5.045	.4952	4.985	.0157
Stddev	.0000	.0002	.0002	.0004	.0018	.037	.0074	.044	.0002
%RSD	.2139	.4233	1.714	1.775	1.660	.7344	1.490	.8803	1.169
#1	.0039	.0505	.0104	.0226	.1092	5.071	.5004	5.016	.0156
#2	.0039	.0508	.0106	.0231	.1067	5.018	.4900	4.954	.0158

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass None Chk Pass Chk Pass
Value
Range

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1061	4.986	.0413	.0050	.0487	.0484	.0758	.0057	.0096
Stddev	.0010	.087	.0001	.0003	.0008	.0015	.0013	.0008	.0004
%RSD	.9177	1.744	.1865	5.824	1.687	3.030	1.745	13.92	4.656
#1	.1054	5.048	.0414	.0048	.0481	.0494	.0767	.0051	.0093
#2	.1068	4.925	.0413	.0052	.0493	.0473	.0749	.0063	.0099

Check ? Chk Pass Chk Pass Chk Pass Chk Pass None None None Chk Pass Chk Pass
Value
Range

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Sample Name: CRI Acquired: 7/30/2014 15:08:40 Type: QC
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1079	.1006	.0101	.0491	.0049	.0102	.1059	.0212	.0475
Stddev	.0003	.0002	.0001	.0008	.0003	.0002	.0004	.0000	.0010
%RSD	.3201	.1584	.7255	1.634	6.384	1.714	.3306	.0700	2.096
#1	.1077	.1007	.0101	.0485	.0047	.0101	.1061	.0212	.0468
#2	.1082	.1005	.0100	.0497	.0051	.0103	.1056	.0212	.0482

Check ? None Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass None Chk Pass None
Value
Range

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6746.7	3224.5	129590.	18142.
Stddev	2.4	1.2	1675.	328.
%RSD	.03537	.03794	1.2928	1.8087
#1	6745.0	3223.7	130780.	17910.
#2	6748.4	3225.4	128410.	18375.

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Sample Name: MP23411-B1 Acquired: 7/30/2014 15:14:16 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1767	2.030	.5155	-.0011	1.064	1.977	.5045	-.0003	25.40
Stddev	.0010	.032	.0013	.0002	.002	.022	.0059	.0003	.26
%RSD	.5837	1.584	.2449	.2014	.2058	1.132	1.161	93.98	1.004
#1	.1760	2.053	.5147	-.0010	1.062	1.993	.5087	-.0001	25.58
#2	.1775	2.008	.5164	-.0013	1.065	1.961	.5004	-.0005	25.21

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5230	.4907	.5095	.4678	2.025	25.44	-.0003	25.41	.5197
Stddev	.0003	.0004	.0009	.0010	.026	.25	.0000	.33	.0025
%RSD	.0600	.0864	.1784	.2191	1.268	.9757	3.106	1.285	.4785
#1	.5232	.4904	.5089	.4671	2.043	25.61	-.0003	25.64	.5179
#2	.5228	.4910	.5102	.4685	2.007	25.26	-.0003	25.18	.5214

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5028	25.65	.4949	1.009	-.0020	-.0008	.0190	.5175	.5193
Stddev	.0015	.27	.0004	.001	.0002	.0019	.0005	.0007	.0013
%RSD	.3005	1.053	.0778	.0982	12.29	237.0	2.717	.1283	.2525
#1	.5018	25.84	.4946	1.008	-.0021	.0005	.0194	.5170	.5184
#2	.5039	25.46	.4952	1.010	-.0018	-.0021	.0187	.5180	.5202

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0807	1.031	.4930	.5046	.5186	.5011	.0142	.5205	.0681
Stddev	.0001	.001	.0061	.0016	.0003	.0013	.0002	.0000	.0069
%RSD	.1566	.1142	1.233	.3157	.0564	.2633	1.358	.0081	10.15
#1	.0806	1.030	.4973	.5035	.5188	.5002	.0141	.5205	.0730
#2	.0808	1.032	.4887	.5057	.5184	.5020	.0143	.5204	.0632

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Sample Name: MP23411-B1 Acquired: 7/30/2014 15:14:16 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6429.2	3148.2	124810.	18167.
Stddev	6.3	2.3	354.	155.
%RSD	.09817	.07345	.28342	.85311
#1	6424.8	3146.5	125060.	18057.
#2	6433.7	3149.8	124560.	18276.

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Sample Name: MP23411-MB1CONF Acquired: 7/30/2014 15:19:45 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	s -.0005	k .0042	k -.0001	s .0001	k .0150	k .0002	k -.0000	k -.0001	k .0165
Stddev	.0007	.0033	.0003	.0004	.0001	.0002	.0000	.0002	.0023
%RSD	149.6	78.58	499.4	265.8	.6631	99.16	274.4	243.3	14.02
#1	.0000	.0065	-.0003	-.0001	.0151	.0001	-.0000	-.0002	.0149
#2	s -.0010	k .0019	k .0002	s .0004	k .0149	k .0004	k .0000	k .0001	k .0181

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	k .0000	k -.0000	s .0001	s .0013	.0065	k .0594	k .0005	k .0197	s .0004
Stddev	.0000	.0000	.0003	.0023	.0000	.0052	.0001	.0002	.0001
%RSD	22.90	161.7	328.2	180.4	.2188	8.799	26.87	1.006	25.73
#1	.0000	-.0000	-.0001	-.0004	.0065	.0631	.0006	.0195	.0003
#2	k .0000	k .0000	s .0003	s .0029	.0065	k .0557	k .0004	k .0198	s .0004

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	k .0011	k .0811	k .0006	k .0002	s -.0008	s -.0007	k .0117	k .0004	k .0017
Stddev	.0002	.0041	.0000	.0001	.0006	.0039	.0006	.0001	.0005
%RSD	17.47	5.046	.5088	29.07	102.3	536.1	5.005	14.34	29.24
#1	.0013	.0782	.0006	.0003	-.0002	.0020	.0121	.0004	.0014
#2	k .0010	k .0839	k .0006	k .0002	s -.0010	s -.0034	k .0113	k .0005	k .0021

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	k .0574	k .0002	.0001	s .0005	k -.0002	s .0001	k .0043	k .0015	s .0001
Stddev	.0002	.0000	.0000	.0001	.0004	.0001	.0000	.0000	.0001
%RSD	.2878	.7918	63.95	14.18	178.5	50.30	1.060	2.034	177.4
#1	.0573	.0002	.0000	.0005	.0001	.0001	.0043	.0016	.0002
#2	k .0575	k .0002	.0001	s .0004	k -.0006	s .0002	k .0042	k .0015	s -.0000

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Sample Name: MP23411-MB1CONF Acquired: 7/30/2014 15:19:45 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6889.6	3242.5	^ *****	18516.
Stddev	2.4	.4	----	45.
%RSD	.03527	.01106	----	.24289
#1	6887.9	3242.3	130350.	18547.
#2	6891.4	3242.8	^ -----	18484.

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Sample Name: MP23411-S1 Acquired: 7/30/2014 15:25:27 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1788	2.047	.5156	-0.008	1.074	1.992	.5070	.0003	25.49
Stddev	.0003	.013	.0000	.0000	.001	.010	.0019	.0004	.06
%RSD	.1407	.6390	.0043	4.367	.0549	.4881	.3811	134.4	.2224
#1	.1786	2.038	.5156	-.0009	1.073	1.985	.5056	.0000	25.45
#2	.1790	2.057	.5156	-.0008	1.074	1.999	.5083	.0006	25.53
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5314	.4938	.5149	.4731	2.033	25.70	-0.001	25.53	.5246
Stddev	.0010	.0011	.0001	.0014	.011	.08	.0011	.09	.0006
%RSD	.1946	.2126	.0102	.3012	.5198	.3084	1305.	.3615	.1132
#1	.5306	.4931	.5150	.4721	2.026	25.64	-.0008	25.46	.5250
#2	.5321	.4946	.5149	.4741	2.041	25.75	.0007	25.59	.5242
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5049	25.86	.4977	1.019	-0.012	-0.0003	.0102	.5225	.5189
Stddev	.0015	.11	.0002	.001	.0000	.0014	.0006	.0004	.0039
%RSD	.3017	.4290	.0345	.0837	2.427	429.7	6.304	.0836	.7602
#1	.5038	25.78	.4978	1.019	-.0012	.0007	.0097	.5229	.5161
#2	.5060	25.94	.4975	1.020	-.0012	-.0013	.0106	.5222	.5216
Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0610	1.037	.4966	.5095	.5256	.5059	.0094	.5249	.0176
Stddev	.0005	.000	.0021	.0003	.0021	.0004	.0007	.0013	.0010
%RSD	.8764	.0106	.4201	.0571	.4035	.0715	7.743	.2528	5.728
#1	.0606	1.037	.4951	.5093	.5271	.5062	.0099	.5240	.0183
#2	.0613	1.037	.4981	.5098	.5241	.5057	.0089	.5259	.0169

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Sample Name: MP23411-S1 Acquired: 7/30/2014 15:25:27 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6419.4	3138.3	124940.	18312.
Stddev	8.1	2.2	111.	4.
%RSD	.12657	.07149	.08922	.01987
#1	6425.2	3139.9	124860.	18310.
#2	6413.7	3136.8	125020.	18315.

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Sample Name: MP23411-S2 Acquired: 7/30/2014 15:30:56 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1776	2.039	.5190	-0.005	1.067	2.000	.5071	.0003	25.57
Stddev	.0001	.006	.0013	.0002	.004	.002	.0007	.0001	.12
%RSD	.0668	.3210	.2537	52.84	.4191	.1133	.1387	28.04	.4688
#1	.1777	2.044	.5181	-.0003	1.064	2.001	.5076	.0002	25.65
#2	.1775	2.035	.5200	-.0006	1.070	1.998	.5066	.0003	25.48
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5291	.4961	.5158	.4742	2.025	25.76	-0.011	25.52	.5246
Stddev	.0027	.0017	.0009	.0009	.000	.06	.0004	.08	.0010
%RSD	.5076	.3344	.1834	.1880	.0178	.2152	39.04	.3039	.1937
#1	.5272	.4949	.5151	.4736	2.025	25.80	-.0014	25.58	.5238
#2	.5310	.4972	.5164	.4749	2.024	25.72	-.0008	25.47	.5253
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5069	25.77	.5008	1.018	-0.013	-0.0008	.0104	.5226	.5222
Stddev	.0027	.06	.0017	.008	.0003	.0005	.0007	.0014	.0006
%RSD	.5270	.2153	.3438	.7890	27.30	64.05	6.975	.2757	.1244
#1	.5050	25.81	.4996	1.012	-.0015	-.0005	.0109	.5215	.5227
#2	.5088	25.73	.5020	1.023	-.0010	-.0012	.0099	.5236	.5218
Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0648	1.040	.4947	.5115	.5257	.5057	.0114	.5271	.0093
Stddev	.0019	.006	.0006	.0001	.0042	.0009	.0005	.0024	.0005
%RSD	2.886	.6281	.1137	.0159	.7973	.1791	4.274	.4572	4.936
#1	.0635	1.036	.4951	.5114	.5227	.5051	.0111	.5254	.0096
#2	.0662	1.045	.4943	.5115	.5287	.5064	.0118	.5288	.0090

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Sample Name: MP23411-S2 Acquired: 7/30/2014 15:30:56 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6409.9	3141.5	125480.	18438.
Stddev	24.8	14.9	258.	72.
%RSD	.38617	.47306	.20576	.39209
#1	6427.4	3152.0	125660.	18386.
#2	6392.4	3131.0	125300.	18489.

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Sample Name: MC32361-3 Acquired: 7/30/2014 15:36:26 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0000	.0087	-0.0003	-0.0004	.0089	.0003	.0000	.0011	.0213
Stddev	.0000	.0053	.0011	.0009	.0005	.0001	.0001	.0002	.0014
%RSD	33.31	60.89	332.5	249.4	5.903	23.48	470.6	18.26	6.378
#1	-0.0000	.0124	.0004	-0.0010	.0093	.0004	-0.0000	.0009	.0222
#2	-0.0000	.0049	-0.0011	.0003	.0085	.0003	.0001	.0012	.0203
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	-0.0000	.0004	-0.0005	.0074	.0502	.0010	.0090	.0002
Stddev	.0001	.0000	.0001	.0002	.0007	.0073	.0004	.0007	.0000
%RSD	72.90	125.9	24.65	42.06	9.678	14.49	44.80	7.773	24.44
#1	.0000	-0.0001	.0004	-0.0007	.0069	.0450	.0013	.0095	.0001
#2	.0001	-0.0000	.0005	-0.0004	.0079	.0553	.0007	.0085	.0002
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0014	.0659	.0001	.0002	.0004	.0003	.0107	.0005	.0009
Stddev	.0001	.0004	.0001	.0001	.0001	.0011	.0010	.0001	.0003
%RSD	6.439	.6045	61.30	38.42	33.56	326.7	9.090	23.28	29.39
#1	.0015	.0657	.0001	.0003	.0003	.0011	.0114	.0006	.0010
#2	.0014	.0662	.0002	.0002	.0004	-.0004	.0100	.0004	.0007
Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0499	.0006	.0001	.0006	.0003	.0001	.0043	.0083	.0000
Stddev	.0002	.0003	.0000	.0000	.0001	.0001	.0000	.0001	.0000
%RSD	.3309	59.87	1.501	2.805	43.53	84.03	.9998	.6095	39.41
#1	.0500	.0008	.0001	.0006	.0002	.0000	.0043	.0083	.0000
#2	.0498	.0003	.0001	.0006	.0004	.0001	.0043	.0082	.0000

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Sample Name: MC32361-3 Acquired: 7/30/2014 15:36:26 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6900.3	3250.6	129560.	18437.
Stddev	7.1	10.9	283.	90.
%RSD	.10231	.33483	.21816	.48791
#1	6895.3	3242.9	129760.	18374.
#2	6905.3	3258.3	129360.	18501.

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Sample Name: MP23411-SD1 Acquired: 7/30/2014 15:42:08 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0010	.0135	.0017	.0001	.0341	.0008	.0002	.0038	.0814
Stddev	.0014	.0214	.0027	.0010	.0003	.0000	.0001	.0019	.0069
%RSD	139.4	159.2	158.0	1246.	.7837	.9301	80.33	49.14	8.428
#1	-0.0000	.0286	.0036	.0008	.0343	.0008	.0002	.0025	.0765
#2	-0.0020	-.0017	-0.0002	-0.0006	.0339	.0008	.0001	.0051	.0862
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	-0.0003	.0009	.0001	.0209	.2862	.0045	.1263	.0006
Stddev	.0002	.0002	.0012	.0007	.0019	.0992	.0019	.0801	.0001
%RSD	77.27	81.01	130.8	1336.	9.022	37.28	42.57	63.43	9.693
#1	.0001	-0.0005	.0001	-0.0005	.0195	.3364	.0058	.0696	.0006
#2	.0004	-.0001	.0017	.0006	.0222	.1960	.0031	.1829	.0005
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0022	.2588	.0004	.0018	-0.0029	-0.0024	.0348	.0034	.0043
Stddev	.0006	.0033	.0006	.0003	.0020	.0073	.0060	.0003	.0000
%RSD	28.56	1.286	158.0	15.31	68.37	304.4	17.14	9.057	.2171
#1	.0026	.2611	-0.0000	.0016	-.0015	-.0075	.0390	.0032	.0043
#2	.0017	.2564	.0008	.0020	-.0043	.0027	.0306	.0036	.0043
Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0507	-0.0010	.0001	.0010	.0019	.0004	.0114	.0144	.0002
Stddev	.0016	.0004	.0000	.0005	.0008	.0014	.0023	.0004	.0003
%RSD	3.095	42.37	1.768	47.85	41.11	323.1	19.95	2.743	173.4
#1	.0518	-0.0007	.0001	.0007	.0025	-.0006	.0130	.0141	-.0000
#2	.0496	-0.0014	.0001	.0014	.0014	.0014	.0098	.0147	.0004

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Sample Name: MP23411-SD1 Acquired: 7/30/2014 15:42:08 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6918.2	3262.3	129030.	18413.
Stddev	10.3	8.8	1241.	52.
%RSD	.14879	.26947	.96183	.27970
#1	6925.5	3268.5	128150.	18449.
#2	6910.9	3256.1	129910.	18376.

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Sample Name: CCV Acquired: 7/30/2014 15:47:51 Type: QC
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2504	9.841	1.993	2.011	2.011	1.987	1.972	2.013	9.927
Stddev	.0005	.021	.002	.002	.000	.003	.006	.000	.040
%RSD	.2159	.2133	.0884	.1140	.0192	.1335	.2867	.0112	.4045
#1	.2500	9.855	1.992	2.009	2.011	1.989	1.976	2.013	9.955
#2	.2508	9.826	1.995	2.013	2.011	1.985	1.968	2.013	9.898

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass None Chk Pass
Value
Range

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.000	1.978	1.988	1.933	9.914	9.796	1.963	9.773	2.017
Stddev	.002	.001	.001	.000	.027	.015	.002	.049	.002
%RSD	.1201	.0667	.0320	.0120	.2679	.1539	.0925	.4975	.1043
#1	1.998	1.977	1.988	1.933	9.933	9.785	1.962	9.808	2.019
#2	2.002	1.979	1.987	1.933	9.895	9.806	1.964	9.739	2.016

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass None Chk Pass Chk Pass
Value
Range

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.999	9.871	1.971	1.974	1.963	1.990	2.009	1.983	1.991
Stddev	.007	.011	.000	.004	.001	.004	.003	.002	.002
%RSD	.3472	.1157	.0198	.2248	.0421	.1859	.1602	.1056	.0818
#1	1.994	9.879	1.971	1.970	1.964	1.993	2.007	1.981	1.990
#2	2.003	9.863	1.971	1.977	1.963	1.988	2.011	1.984	1.992

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

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Sample Name: CCV Acquired: 7/30/2014 15:47:51 Type: QC
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.031	1.999	1.976	1.983	2.021	1.963	1.947	2.002	1.956
Stddev	.002	.001	.000	.001	.004	.000	.008	.000	.007
%RSD	.0949	.0538	.0224	.0371	.2160	.0108	.3914	.0108	.3639
#1	2.030	1.998	1.977	1.984	2.018	1.963	1.942	2.001	1.951
#2	2.033	2.000	1.976	1.983	2.024	1.963	1.953	2.002	1.961

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6602.9	3243.3	127830.	18516.
Stddev	9.1	5.1	322.	173.
%RSD	.13707	.15704	.25202	.93406
#1	6609.3	3246.9	127600.	18393.
#2	6596.5	3239.7	128060.	18638.

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Sample Name: CCBCONF Acquired: 7/30/2014 15:53:18 Type: QC
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0013	.0001	.0010	.0075	.0001	.0001	.0006	-.0006
Stddev	.0000	.0010	.0004	.0003	.0006	.0000	.0000	.0005	.0003
%RSD	15.72	75.99	286.0	29.55	7.358	36.61	33.07	73.66	45.46
#1	.0001	.0006	-.0002	.0008	.0079	.0001	.0001	.0003	-.0008
#2	.0001	.0020	-.0005	.0012	.0071	.0001	.0000	.0010	-.0004

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0002	.0001	.0001	.0021	.0430	.0007	.0087	.0002
Stddev	.0001	.0000	.0001	.0002	.0010	.0184	.0004	.0025	.0001
%RSD	39.04	.9051	171.5	311.8	48.89	42.90	54.69	28.99	48.30
#1	.0002	.0002	-.0000	-.0001	.0028	.0299	.0004	.0104	.0002
#2	.0004	.0002	.0002	.0002	.0014	.0560	.0010	.0069	.0003

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0057	.0275	.0003	-.0003	-.0000	.0014	.0080	.0006	.0018
Stddev	.0011	.0035	.0001	.0001	.0004	.0001	.0005	.0006	.0001
%RSD	19.92	12.73	49.12	49.06	3049.	3.617	6.490	99.34	3.873
#1	.0065	.0300	.0002	-.0002	-.0003	.0015	.0083	.0002	.0017
#2	.0049	.0250	.0004	-.0003	.0003	.0014	.0076	.0010	.0018

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

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Sample Name: CCBCONF Acquired: 7/30/2014 15:53:18 Type: QC
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009	.0002	.0001	.0006	.0002	.0001	F .0119	F .0374	.0012
Stddev	.0000	.0003	.0000	.0000	.0006	.0002	.0011	.0000	.0001
%RSD	.9507	105.8	21.40	3.609	302.2	171.5	9.187	.0463	5.243
#1	.0009	.0001	.0001	.0006	.0006	.0002	.0127	.0374	.0012
#2	.0009	.0004	.0001	.0006	-.0002	-.0000	.0111	.0374	.0013

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Fail Chk Fail Chk Pass
High Limit
Low Limit

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6858.8	3238.0	128880.	18246.
Stddev	58.6	27.1	97.	90.
%RSD	.85415	.83673	.07528	.49207
#1	6817.4	3216.8	128950.	18309.
#2	6900.3	3255.1	128810.	18182.

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Sample Name: CCB Acquired: 7/30/2014 16:00:04 Type: QC
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.001	.0001	.0005	.0002	.0046	-0.000	.0000	.0005	-0.017
Stddev	.0002	.0035	.0005	.0008	.0007	.0000	.0000	.0003	.0031
%RSD	142.3	248.1	88.32	449.2	15.55	82.08	67.25	63.80	181.3
#1	.0000	-.0023	.0009	.0007	.0051	-.0000	.0000	.0007	-.0039
#2	-.0003	.0026	.0002	-.0004	.0041	-.0001	.0000	.0003	.0005

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	-0.0000	.0002	-0.0009	.0011	.0329	.0005	.0212	.0000
Stddev	.0000	.0000	.0001	.0002	.0000	.0282	.0001	.0196	.0000
%RSD	77.53	29.80	41.84	20.56	1.402	85.80	11.49	92.21	2.654
#1	.0000	-.0001	.0002	-.0010	.0011	.0529	.0005	.0351	.0000
#2	.0000	-.0000	.0001	-.0008	.0012	.0129	.0006	.0074	.0000

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0017	.0250	.0002	.0002	-0.0003	.0000	.0033	.0005	.0009
Stddev	.0000	.0002	.0000	.0007	.0003	.0003	.0000	.0006	.0005
%RSD	1.877	.8163	7.375	380.5	96.60	251.1	1.351	126.8	56.23
#1	.0017	.0252	.0002	-.0003	-.0001	.0002	.0032	.0000	.0006
#2	.0016	.0249	.0001	.0007	-.0006	-.0002	.0033	.0009	.0013

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

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Sample Name: CCB Acquired: 7/30/2014 16:00:04 Type: QC
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0002	-0.0000	.0002	.0007	.0002	.0077	.0002	.0006
Stddev	.0000	.0002	.0000	.0000	.0006	.0001	.0004	.0000	.0001
%RSD	8.467	117.4	183.9	12.88	96.89	67.78	4.996	2.838	11.64
#1	.0002	.0003	-.0000	.0002	.0002	.0001	.0080	.0002	.0005
#2	.0002	.0000	.0000	.0002	.0011	.0002	.0075	.0002	.0006

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6886.6	3252.6	128210.	18287.
Stddev	1.6	2.8	443.	79.
%RSD	.02366	.08663	.34515	.43469
#1	6887.7	3250.6	127900.	18343.
#2	6885.4	3254.6	128530.	18230.

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Sample Name: MP23411-B2 Acquired: 7/30/2014 16:12:46 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1790	2.059	.5200	-0.011	1.076	1.999	.5133	.0006	25.70
Stddev	.0003	.003	.0019	.0001	.002	.002	.0000	.0004	.05
%RSD	.1879	.1300	.3680	9.285	.2270	.0838	.0011	64.88	.1925
#1	.1787	2.057	.5214	-.0011	1.077	2.000	.5133	.0008	25.67
#2	.1792	2.061	.5186	-.0010	1.074	1.998	.5133	.0003	25.74

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5328	.4975	.5126	.4690	2.063	25.76	-0.011	25.74	.5232
Stddev	.0009	.0011	.0009	.0021	.006	.02	.0007	.10	.0009
%RSD	.1753	.2215	.1732	.4489	.2997	.0757	62.39	.3989	.1787
#1	.5335	.4982	.5119	.4676	2.058	25.77	-.0006	25.67	.5226
#2	.5322	.4967	.5132	.4705	2.067	25.75	-.0015	25.82	.5239

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5096	26.13	.5106	1.026	-0.019	.0004	.0080	.5229	.5228
Stddev	.0017	.02	.0016	.002	.0007	.0012	.0005	.0016	.0004
%RSD	.3277	.0658	.3084	.1765	38.24	297.4	6.053	.3045	.0809
#1	.5108	26.12	.5118	1.027	-.0024	-.0004	.0084	.5240	.5223
#2	.5084	26.14	.5095	1.024	-.0014	.0012	.0077	.5218	.5229

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0841	1.047	.5039	.5062	.5263	.5037	.0125	.5327	.0652
Stddev	.0008	.002	.0004	.0005	.0028	.0002	.0003	.0020	.0067
%RSD	.9562	.2033	.0887	.1001	.5280	.0384	2.473	.3828	10.31
#1	.0835	1.048	.5036	.5058	.5283	.5035	.0127	.5342	.0699
#2	.0847	1.045	.5042	.5065	.5243	.5038	.0123	.5313	.0604

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Sample Name: MP23411-B2 Acquired: 7/30/2014 16:12:46 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6422.6	3141.4	125940.	18224.
Stddev	3.3	4.1	225.	76.
%RSD	.05139	.12946	.17843	.41606
#1	6420.3	3138.5	126100.	18277.
#2	6424.9	3144.2	125780.	18170.

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Sample Name: MP23411-MB2 Acquired: 7/30/2014 16:18:17 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0002	.0057	.0002	-0.0001	.0053	.0005	-0.0000	.0004	.0368
Stddev	.0002	.0019	.0002	.0003	.0000	.0000	.0000	.0002	.0006
%RSD	93.95	33.07	104.8	580.1	.7999	10.01	16.61	50.01	1.669
#1	-.0003	.0070	.0004	-.0003	.0054	.0005	-.0000	.0006	.0362
#2	-.0001	.0044	.0001	.0002	.0053	.0005	-.0000	.0003	.0370
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	-0.0001	.0001	.0001	.0061	.0437	.0005	.0208	.0006
Stddev	.0000	.0001	.0001	.0001	.0005	.0096	.0007	.0228	.0000
%RSD	5.924	99.37	95.95	133.1	8.306	22.09	160.7	109.2	2.922
#1	.0000	-.0000	.0000	.0001	.0058	.0505	.0010	.0048	.0006
#2	.0000	-.0001	.0001	.0000	.0065	.0369	-.0001	.0369	.0006
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0014	.1474	.0002	.0004	.0002	-0.0002	.0319	.0002	.0016
Stddev	.0003	.0028	.0001	.0006	.0001	.0009	.0018	.0003	.0007
%RSD	21.84	1.883	64.33	169.3	60.74	530.0	5.692	133.3	45.67
#1	.0016	.1454	.0001	-.0001	.0003	-.0008	.0306	.0000	.0021
#2	.0012	.1493	.0003	.0008	.0001	.0005	.0332	.0004	.0011
Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0539	-0.0001	.0002	.0003	-0.0000	-0.0000	.0081	.0200	.0001
Stddev	.0003	.0003	.0000	.0001	.0001	.0001	.0002	.0001	.0000
%RSD	.5472	248.3	3.775	20.57	351.7	295.1	2.939	.6800	17.95
#1	.0537	.0001	.0002	.0003	.0001	-.0001	.0080	.0199	.0001
#2	.0542	-.0003	.0002	.0002	-.0001	.0000	.0083	.0201	.0001

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Sample Name: MP23411-MB2 Acquired: 7/30/2014 16:18:17 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6894.7	3251.8	129700.	18545.
Stddev	5.9	3.3	347.	9.
%RSD	.08555	.10213	.26756	.04710
#1	6898.8	3254.2	129450.	18551.
#2	6890.5	3249.5	129940.	18539.

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Sample Name: MP23411-MB1 Acquired: 7/30/2014 16:24:12 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0042	-0.0000	-0.0003	.0038	.0002	-0.0000	.0004	.0162
Stddev	.0000	.0011	.0006	.0006	.0006	.0000	.0000	.0009	.0002
%RSD	1.852	27.29	2971.	178.9	16.48	9.876	219.6	239.4	1.227
#1	.0000	.0050	-.0004	.0001	.0043	.0002	-.0000	-.0003	.0161
#2	.0000	.0034	-.0004	-.0008	.0034	.0002	.0000	.0010	.0163
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0000	.0000	-0.0000	-0.0003	.0052	.0263	.0003	.0088	.0003
Stddev	.0001	.0000	.0002	.0003	.0017	.0124	.0002	.0147	.0000
%RSD	340.8	267.1	483.7	109.7	33.26	46.93	86.47	166.6	3.650
#1	-.0001	.0000	-.0002	-.0005	.0039	.0176	.0001	.0192	.0003
#2	.0000	-.0000	.0001	-.0001	.0064	.0351	.0005	-.0016	.0003
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006	.0493	.0008	-0.0001	-0.0002	.0003	.0056	-0.0007	.0015
Stddev	.0001	.0032	.0000	.0004	.0001	.0029	.0009	.0000	.0003
%RSD	22.87	6.456	3.271	414.5	60.98	1132.	15.62	.2068	22.60
#1	.0007	.0516	.0005	-.0004	-.0003	.0023	.0062	-.0007	.0013
#2	.0005	.0471	.0006	.0002	-.0001	-.0018	.0050	-.0007	.0018
Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0585	-0.0003	.0000	.0002	.0002	.0000	.0053	.0010	.0001
Stddev	.0016	.0006	.0000	.0002	.0004	.0000	.0002	.0001	.0001
%RSD	2.783	212.9	64.84	93.55	146.1	115.5	2.955	11.49	56.33
#1	.0597	.0001	.0001	.0001	-.0000	.0000	.0054	.0011	.0002
#2	.0574	-.0007	.0000	.0004	.0005	.0001	.0052	.0009	.0001

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Sample Name: MP23411-MB1 Acquired: 7/30/2014 16:24:12 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6856.8	3232.5	129740.	18407.
Stddev	85.8	40.2	65.	69.
%RSD	1.2512	1.2441	.05003	.37680
#1	6796.2	3204.0	129700.	18456.
#2	6917.5	3260.9	129790.	18358.

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Sample Name: CRI Acquired: 7/30/2014 16:28:24 Type: QC										
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000										
User: admin Custom ID1: Custom ID2: Custom ID3:										
Comment:										
Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.0050	.2024	.0047	.0503	.1061	.0497	.0041	.0519	5.044	
Stddev	.0001	.0002	.0003	.0001	.0002	.0003	.0001	.0003	.012	
%RSD	1.761	.1034	5.353	.1443	.1962	.6133	1.399	.5703	.2409	
#1	.0051	.2025	.0049	.0503	.1059	.0494	.0040	.0517	5.035	
#2	.0049	.2022	.0046	.0502	.1062	.0499	.0041	.0521	5.052	
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	
Value										
Range										
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.0039	.0506	.0105	.0241	.1081	4.953	.4873	5.039	.0159	
Stddev	.0001	.0001	.0002	.0001	.0003	.030	.0013	.068	.0001	
%RSD	3.835	.1550	1.722	.4251	.2916	.5975	.2600	1.341	.3191	
#1	.0040	.0505	.0104	.0241	.1078	4.932	.4864	4.991	.0158	
#2	.0038	.0507	.0106	.0242	.1083	4.973	.4882	5.087	.0159	
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	
Value										
Range										
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.1057	4.909	.0414	.0051	.0497	.0486	.0595	.0054	.0103	
Stddev	.0009	.005	.0000	.0001	.0001	.0009	.0011	.0003	.0012	
%RSD	.8072	.1038	.1004	1.583	.2490	1.766	1.791	6.295	11.98	
#1	.1051	4.905	.0414	.0050	.0496	.0492	.0587	.0052	.0112	
#2	.1063	4.913	.0414	.0051	.0498	.0480	.0602	.0057	.0094	
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None	None	Chk Pass	Chk Pass	
Value										
Range										

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Sample Name: CRI		Acquired: 7/30/2014 16:28:24				Type: QC				
Method: Accutest2(v76)		Mode: CONC		Corr. Factor: 1.000000						
User: admin		Custom ID1:		Custom ID2:		Custom ID3:				
Comment:										
Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.1084	.1013	.0101	.0498	.0051	.0101	.1040	.0213	.0280	
Stddev	.0004	.0002	.0001	.0004	.0003	.0001	.0007	.0001	.0006	
%RSD	.3802	.2300	.8432	.8663	5.347	.5797	.6946	.6565	2.240	
#1	.1081	.1015	.0100	.0495	.0049	.0101	.1035	.0212	.0275	
#2	.1087	.1012	.0101	.0501	.0053	.0100	.1045	.0214	.0284	
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	None	
Value										
Range										
Int. Std.	In2306	Y_2243	Y_3600	Y_3710						
Units	Cts/S	Cts/S	Cts/S	Cts/S						
Avg	6770.6	3238.1	128830.	18207.						
Stddev	14.3	10.4	94.	104.						
%RSD	.21141	.32112	.07305	.57377						
#1	6780.7	3245.4	128760.	18281.						
#2	6760.5	3230.7	128900.	18133.						

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Sample Name: ICSEA Acquired: 7/30/2014 16:34:02 Type: QC										
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000										
User: admin Custom ID1: Custom ID2: Custom ID3:										
Comment:										
Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.0004	517.3	.0012	-.0018	.0039	.0006	.0001	.0021	456.9	
Stddev	.0001	.0	.0022	.0002	.0004	.0001	.0000	.0001	2.0	
%RSD	28.94	.0036	185.6	12.03	9.296	12.44	27.57	4.881	.4436	
#1	.0004	517.3	.0027	-.0019	.0041	.0005	.0001	.0020	458.3	
#2	.0003	517.3	-.0004	-.0016	.0036	.0006	.0001	.0022	455.5	
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	
High Limit										
Low Limit										
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.0006	.0010	.0005	-.0014	182.6	-.0812	.0062	521.5	.0006	
Stddev	.0004	.0001	.0000	.0005	.3	.0104	.0004	.8	3.568	
%RSD	63.41	11.88	9.042	36.80	.1385	12.75	6.697	.1446		
#1	.0003	.0011	.0005	-.0018	182.7	-.0885	.0059	522.0	.0006	
#2	.0008	.0009	.0006	-.0011	182.4	-.0739	.0065	521.0	.0006	
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	
High Limit										
Low Limit										
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.0016	.1522	-.0002	-.0019	-.0313	-.0261	.0491	.0004	.0016	
Stddev	.0001	.0016	.0003	.0016	.0012	.0027	.0039	.0000	.0011	
%RSD	7.498	1.025	187.0	84.50	3.884	10.30	7.947	8.370	69.31	
#1	.0017	.1533	.0000	-.0008	-.0304	-.0280	.0519	.0004	.0008	
#2	.0015	.1511	-.0004	-.0030	-.0321	-.0242	.0463	.0005	.0024	
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	
High Limit										
Low Limit										

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Sample Name: ICSEA		Acquired: 7/30/2014 16:34:02			Type: QC				
Method: Accutest2(v76)		Mode: CONC		Corr. Factor: 1.000000					
User: admin		Custom ID1:		Custom ID2:		Custom ID3:			
Comment:									
Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0218	.0027	.0013	.0007	.0001	-.0002	.0169	.0008	.0010
Stddev	.0013	.0008	.0000	.0001	.0000	.0001	.0012	.0000	.0001
%RSD	6.144	29.46	2.018	12.02	79.68	31.82	7.117	4.547	6.556
#1	.0227	.0022	.0012	.0006	.0001	-.0003	.0178	.0008	.0011
#2	.0208	.0033	.0013	.0008	.0000	-.0002	.0161	.0007	.0010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									
Int. Std.	In2306	Y_2243	Y_3600	Y_3710					
Units	Cts/S	Cts/S	Cts/S	Cts/S					
Avg	5443.4	2840.0	111080.	17480.					
Stddev	9.8	5.4	451.	15.					
%RSD	.17980	.19018	.40643	.08507					
#1	5436.5	2836.1	110760.	17491.					
#2	5450.3	2843.8	111400.	17470.					

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Sample Name: ICSAB										Acquired: 7/30/2014 16:39:46		Type: QC	
Method: Accutest2(v76)				Mode: CONC		Corr. Factor: 1.000000							
User: admin		Custom ID1:		Custom ID2:		Custom ID3:							
Comment:													
Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179				
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm				
Avg	1.049	510.9	2.046	5167	1.003	4848	4759	4961	454.5				
Stddev	.001	3.8	.001	.0022	.001	.0013	.0013	.0003	6.1				
%RSD	.1370	.7534	.0650	.4271	.0883	.2589	.2705	.0574	1.342				
#1	1.050	508.2	2.047	5182	1.002	4839	4750	4963	450.2				
#2	1.048	513.7	2.045	5151	1.003	4857	4768	4959	458.9				
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass			
High Limit													
Low Limit													
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576				
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm				
Avg	1.033	4700	4719	5122	179.6	-0.0726	5231	520.2	4872				
Stddev	.001	.0008	.0002	.0008	.6	.0075	.0003	2.0	.0017				
%RSD	.1105	.1683	.0490	.1498	.3581	10.32	.0575	.3835	.3552				
#1	1.032	4706	4718	5127	179.2	-0.0673	5229	518.7	4884				
#2	1.034	4694	4721	5117	180.1	-0.0779	5233	521.6	4859				
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass			
High Limit													
Low Limit													
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960				
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm				
Avg	9358	1622	9073	9156	5202	4958	5522	2109	2030				
Stddev	.0025	.0004	.0007	.0012	.0015	.0024	.0028	.005	.004				
%RSD	.2715	.2643	.0818	.1289	.2863	.4846	.5137	.2366	.2046				
#1	9340	1619	9078	9147	5213	4941	5502	2113	2027				
#2	9376	1625	9068	9164	5192	4975	5542	2106	2033				
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass			
High Limit													
Low Limit													

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Sample Name: CCV			Acquired: 7/30/2014 16:45:24			Type: QC				
Method: Accutest2(v76)			Mode: CONC			Corr. Factor: 1.000000				
User: admin		Custom ID1:		Custom ID2:		Custom ID3:				
Comment:										
Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	2529	9.947	2.003	2.031	2.035	2.000	1.968	2.027	10.05	
Stddev	.0012	.009	.010	.004	.006	.001	.000	.007	.00	
%RSD	.4556	.0934	.4826	.1789	.3192	.0689	.0086	.3330	.0443	
#1	2521	9.941	1.996	2.028	2.030	1.999	1.968	2.023	10.05	
#2	2538	9.954	2.010	2.034	2.040	2.001	1.967	2.032	10.05	
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	
Value Range										
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	2.031	1.992	2.027	1.968	9.930	9.883	1.982	9.845	2.037	
Stddev	.005	.006	.003	.004	.006	.034	.002	.003	.004	
%RSD	.2733	.2825	.1347	.1987	.0583	.3430	.0967	.0347	.1709	
#1	2.027	1.988	2.025	1.965	9.934	9.859	1.981	9.843	2.034	
#2	2.035	1.996	2.029	1.971	9.926	9.907	1.983	9.848	2.039	
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	
Value Range										
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	2.023	9.915	1.972	1.981	1.987	2.012	2.020	2.001	1.993	
Stddev	.013	.002	.007	.009	.004	.009	.011	.008	.015	
%RSD	.6268	.0241	.3418	.4402	.2052	.4417	.5174	.4214	.7268	
#1	2.014	9.913	1.967	1.975	1.984	2.006	2.012	1.995	1.983	
#2	2.032	9.917	1.976	1.987	1.990	2.018	2.027	2.007	2.003	
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	
Value Range										

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Sample Name: ICSAB		Acquired: 7/30/2014 16:39:46		Type: QC					
Method: Accutest2(v76)		Mode: CONC		Corr. Factor: 1.000000					
User: admin		Custom ID1:		Custom ID2:					
				Custom ID3:					
Comment:									
Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.983	.9070	.9593	4812	1.827	4744	1.871	.8939	.3281
Stddev	.003	.0001	.0025	.0008	.003	.0017	.007	.0006	.0055
%RSD	.1300	.0142	.2580	.1680	.1793	.3487	.3592	.0690	1.663
#1	1.985	.9070	.9576	4817	1.829	4755	1.867	.8943	.3243
#2	1.981	.9071	.9611	4806	1.825	4732	1.876	.8935	.3320
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit									
Low Limit									
Int. Std.	In2306	Y_2243	Y_3600	Y_3710					
Units	Cts/S	Cts/S	Cts/S	Cts/S					
Avg	5472.2	2858.6	111480.	17734.					
Stddev	.9	1.7	338.	67.					
%RSD	.01569	.06000	.30276	.37733					
#1	5472.8	2859.8	111240.	17781.					
#2	5471.6	2857.4	111720.	17687.					

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Sample Name: CCV		Acquired: 7/30/2014 16:45:24		Type: QC					
Method: Accutest2(v76)		Mode: CONC		Corr. Factor: 1.000000					
User: admin		Custom ID1:		Custom ID2:		Custom ID3:			
Comment:									
Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.039	2.001	1.964	2.017	2.039	1.979	1.987	2.022	2.030
Stddev	.008	.008	.001	.004	.005	.003	.010	.007	.002
%RSD	.3788	.4070	.0359	.1727	.2652	.1625	.4927	.3295	.0939
#1	2.034	1.996	1.964	2.015	2.035	1.977	1.980	2.017	2.032
#2	2.045	2.007	1.965	2.020	2.043	1.981	1.994	2.026	2.029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value Range									
Int. Std.	In2306	Y_2243	Y_3600	Y_3710					
Units	Cts/S	Cts/S	Cts/S	Cts/S					
Avg	6561.8	3212.4	126250.	18212.					
Stddev	6.0	3.2	29.	20.					
%RSD	.09214	.09975	.02318	.10723					
#1	6566.1	3214.7	126230.	18199.					
#2	6557.5	3210.2	126270.	18226.					

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Sample Name: CCB Acquired: 7/30/2014 16:50:51 Type: QC									
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.000	.0185	.0011	.0013	.0048	.0003	.0002	.0005	.0212
Stddev	.0002	.0059	.0000	.0004	.0002	.0001	.0000	.0001	.0022
%RSD	340.3	31.62	3.779	28.41	4.143	26.76	1.612	14.91	10.21
#1	-.0002	.0227	.0011	.0016	.0050	.0003	.0002	.0005	.0227
#2	.0001	.0144	.0010	.0011	.0047	.0002	.0002	.0004	.0196
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0001	.0002	-0.0004	.0111	.0512	.0005	.0185	.0002
Stddev	.0002	.0001	.0001	.0003	.0007	.0159	.0002	.0082	.0000
%RSD	91.02	75.42	65.13	57.73	6.482	31.03	38.28	44.49	3.397
#1	.0001	.0001	.0001	-0.0006	.0116	.0625	.0004	.0243	.0002
#2	.0004	.0002	.0002	-0.0003	.0106	.0400	.0007	.0127	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0051	.0219	.0003	.0002	.0004	.0005	.0027	-.0001	.0009
Stddev	.0010	.0005	.0001	.0005	.0001	.0008	.0000	.0003	.0008
%RSD	19.53	2.168	22.04	249.2	30.57	163.4	.4444	222.8	85.89
#1	.0059	.0216	.0003	.0005	.0003	.0010	.0026	.0001	.0014
#2	.0044	.0222	.0003	-0.0001	.0005	-0.0001	.0027	-0.0003	.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

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Sample Name: CCB Acquired: 7/30/2014 16:50:51 Type: QC									
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0002	.0003	.0002	.0006	.0011	.0002	F .0145	.0003	.0014
Stddev	.0002	.0002	.0000	.0000	.0000	.0001	.0011	.0000	.0000
%RSD	82.07	79.47	10.87	2.494	4.119	23.69	7.459	2.457	2.479
#1	-.0001	.0001	.0003	.0006	.0011	.0002	.0153	.0003	.0013
#2	-.0004	.0004	.0002	.0006	.0011	.0003	.0138	.0004	.0014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit							.0100		
Low Limit							-.0100		
Int. Std.	In2306	Y_2243	Y_3600	Y_3710					
Units	Cts/S	Cts/S	Cts/S	Cts/S					
Avg	6913.5	3262.8	128930.	18195.					
Stddev	20.6	13.6	209.	3.					
%RSD	.29849	.41560	.16179	.01586					
#1	6898.9	3253.2	128780.	18197.					
#2	6928.1	3272.4	129080.	18193.					

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Sample Name: MC32373-1 Acquired: 7/30/2014 16:56:33 Type: Unk									
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	.0430	.0018	.0004	.0823	3.043	-0.0000	.0015	234.4
Stddev	.0001	.0057	.0004	.0005	.0006	.002	.0001	.0005	1.1
%RSD	26.16	13.33	24.53	114.0	.7694	.0543	383.2	37.18	.4620
#1	.0006	.0471	.0021	.0008	.0828	3.042	.0000	.0019	235.1
#2	.0004	.0390	.0015	.0001	.0819	3.044	-0.0001	.0011	233.6
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0002	.0008	-0.0004	.2515	3.546	.0274	50.12	.6913
Stddev	.0001	.0000	.0001	.0001	.0017	.011	.0002	.33	.0003
%RSD	42.74	1.152	7.119	21.79	.6796	.3115	.7295	.6547	.0373
#1	.0001	.0002	.0008	-0.0003	.2503	3.553	.0276	49.89	.6914
#2	.0003	.0002	.0007	-0.0005	.2527	3.538	.0273	50.35	.6911
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0040	171.1	.0008	-0.0008	-0.0085	-0.0024	3.928	-0.0005	.0007
Stddev	.0003	3.4	.0000	.0002	.0005	.0001	.005	.0005	.0000
%RSD	7.745	2.008	.2543	23.94	5.589	4.663	.1286	96.92	.3883
#1	.0042	168.7	.0008	-0.0010	-0.0088	-0.0024	3.924	-0.0002	.0007
#2	.0037	173.5	.0008	-0.0007	-0.0081	-0.0023	3.932	-0.0009	.0007
Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.638	-0.0003	1.293	.0022	.0009	.0009	.0146	.0095	.0028
Stddev	.001	.0002	.001	.0002	.0011	.0002	.0005	.0001	.0001
%RSD	.0170	80.94	.1071	8.510	123.2	26.79	3.474	1.095	3.106
#1	5.639	-0.0001	1.292	.0021	.0017	.0011	.0150	.0096	.0027
#2	5.638	-0.0004	1.294	.0024	.0001	.0007	.0143	.0094	.0028

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Sample Name: MC32373-1 Acquired: 7/30/2014 16:56:33 Type: Unk									
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Int. Std.	In2306	Y_2243	Y_3600	Y_3710					
Units	Cts/S	Cts/S	Cts/S	Cts/S					
Avg	5795.4	2956.3	118510.	17843.					
Stddev	3.1	1.9	16.	74.					
%RSD	.05358	.06270	.01347	.41382					
#1	5797.6	2957.6	118500.	17895.					
#2	5793.2	2955.0	118520.	17791.					

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Sample Name: MC32373-5 Acquired: 7/30/2014 17:02:21 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0276	.0015	.0010	.3159	5.208	-0.0000	.0010	165.6
Stddev	.0002	.0002	.0002	.0000	.0012	.094	.0000	.0006	1.2
%RSD	92.41	.7544	12.14	.7802	.3934	1.795	124.7	55.96	.7252
#1	.0001	.0274	.0016	.0010	.3150	5.142	-0.0000	.0006	164.8
#2	.0003	.0277	.0014	.0010	.3168	5.274	-0.0000	.0014	166.5
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	-0.0006	.0007	.0000	.1155	4.428	.0602	46.11	.3845
Stddev	.0001	.0000	.0002	.0001	.0004	.014	.0004	.20	.0012
%RSD	45.41	3.121	28.96	409.9	.3363	.3211	.6027	.4375	.3219
#1	.0002	-0.0006	.0009	.0001	.1158	4.418	.0600	45.97	.3836
#2	.0001	-0.0006	.0006	-0.0000	.1153	4.438	.0605	46.25	.3853
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0020	103.0	.0005	-0.0008	-0.0065	-0.0018	.1072	.0001	.0009
Stddev	.0002	.7	.0000	.0004	.0005	.0014	.0016	.0002	.0008
%RSD	8.191	.6837	.4742	51.90	8.133	80.80	1.525	246.4	84.30
#1	.0019	102.5	.0005	-.0011	-.0061	-.0008	.1060	-.0001	.0004
#2	.0021	103.5	.0005	-.0005	-.0069	-.0028	.1083	.0003	.0014
Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.165	-0.0009	5.345	.0017	.0007	.0006	.0133	.0085	.0021
Stddev	.013	.0003	.025	.0001	.0005	.0001	.0002	.0001	.0000
%RSD	.2410	34.25	.4738	6.906	65.89	9.526	1.432	1.192	1.279
#1	5.157	-0.007	5.327	.0017	.0004	.0006	.0132	.0085	.0021
#2	5.174	-0.011	5.363	.0016	.0011	.0006	.0134	.0086	.0021

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Sample Name: MC32373-5 Acquired: 7/30/2014 17:02:21 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5958.0	2991.2	119460.	17654.
Stddev	3.8	1.3	156.	66.
%RSD	.06305	.04454	.13066	.37112
#1	5955.4	2990.2	119570.	17700.
#2	5960.7	2992.1	119350.	17607.

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Sample Name: MC32373-8 Acquired: 7/30/2014 17:08:11 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0068	.0004	.0005	.0030	.0010	-0.0000	.0008	.1858
Stddev	.0002	.0001	.0000	.0004	.0003	.0002	.0000	.0003	.0003
%RSD	206.0	1.094	4.077	78.79	10.57	16.68	99.97	43.06	.1720
#1	-0.0000	.0067	.0004	.0002	.0032	.0009	-0.0000	.0005	.1860
#2	.0002	.0068	.0003	.0007	.0028	.0012	-0.0000	.0010	.1856
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	-0.0000	.0002	.0010	.0076	.0462	.0006	.0118	.0009
Stddev	.0001	.0002	.0001	.0003	.0016	.0075	.0004	.0199	.0000
%RSD	88.91	436.2	50.78	33.22	21.47	16.21	66.68	169.1	2.060
#1	.0000	.0001	.0001	.0013	.0064	.0515	.0003	.0259	.0009
#2	.0001	-0.0002	.0002	.0008	.0088	.0409	.0008	-.0023	.0008
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006	.6583	.0001	.0002	.0002	.0010	.0080	.0004	.0017
Stddev	.0001	.0042	.0001	.0002	.0000	.0026	.0000	.0005	.0006
%RSD	22.41	.6439	100.3	133.4	27.46	251.8	.3916	115.8	38.02
#1	.0006	.6613	.0002	.0003	.0002	-.0008	.0080	.0001	.0021
#2	.0005	.6553	.0000	.0000	.0001	.0029	.0081	.0008	.0012
Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3769	-0.0002	.0006	.0004	.0002	.0001	.0069	.0110	.0008
Stddev	.0008	.0000	.0000	.0001	.0002	.0003	.0002	.0000	.0001
%RSD	.2233	3.953	6.192	23.22	100.4	290.4	3.132	.0715	7.650
#1	.3775	-0.0002	.0006	.0005	.0001	-.0001	.0071	.0111	.0009
#2	.3763	-0.0002	.0006	.0004	.0003	.0003	.0068	.0110	.0008

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Sample Name: MC32373-8 Acquired: 7/30/2014 17:08:11 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6877.1	3238.8	129690.	18289.
Stddev	22.0	12.0	236.	26.
%RSD	.31924	.37030	.18190	.14292
#1	6892.7	3247.3	129850.	18307.
#2	6861.6	3230.3	129520.	18270.

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Sample Name: MC32376-1 Acquired: 7/30/2014 17:13:54 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0070	.0002	-.0005	.0319	.1092	-.0000	.0012	208.7
Stddev	.0000	.0033	.0010	.0011	.0005	.0002	.0000	.0003	.8
%RSD	1.823	47.05	418.7	227.1	1.478	.2017	83.00	21.65	.3767
#1	.0002	.0093	-.0005	.0003	.0322	.1090	-.0000	.0010	209.3
#2	.0002	.0047	.0010	-.0012	.0315	.1093	-.0001	.0014	208.2
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	-.0006	.0009	.0023	.2285	1.767	.0064	78.09	.0656
Stddev	.0001	.0000	.0001	.0001	.0015	.013	.0006	.15	.0009
%RSD	85.09	.4696	10.71	2.635	.6412	.7154	8.817	.1904	1.375
#1	.0001	-.0006	.0008	.0023	.2275	1.776	.0068	78.20	.0662
#2	.0000	-.0006	.0010	.0022	.2295	1.758	.0060	77.99	.0649
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0017	40.50	.0009	.0024	-.0080	-.0019	F 170.8	-.0006	.0007
Stddev	.0002	.00	.0001	.0009	.0007	.0006	.0	.0003	.0027
%RSD	10.30	.0059	6.356	38.28	9.248	29.83	.0184	44.18	372.5
#1	.0019	40.50	.0009	.0030	-.0075	-.0023	170.8	-.0008	-.0012
#2	.0016	40.50	.0008	.0017	-.0086	-.0015	170.7	-.0004	.0026
Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.911	-.0003	1.368	.0013	.0008	.0011	.0095	.0312	.0103
Stddev	.004	.0001	.000	.0002	.0007	.0001	.0002	.0002	.0000
%RSD	.0734	31.59	.0084	17.91	86.22	5.058	2.085	.5952	.3731
#1	5.908	-.0002	1.368	.0014	.0003	.0012	.0096	.0310	.0103
#2	5.914	-.0003	1.368	.0011	.0013	.0011	.0093	.0313	.0102

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Sample Name: MC32376-1 Acquired: 7/30/2014 17:13:54 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5987.2	2971.3	119510.	17896.
Stddev	5.3	3.5	575.	124.
%RSD	.08843	.11816	.48154	.69546
#1	5990.9	2973.7	119100.	17808.
#2	5983.4	2968.8	119920.	17984.

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Sample Name: MC32376-4 Acquired: 7/30/2014 17:19:34 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0008	.0010	-.0005	.0333	.0438	.0000	.0013	270.8
Stddev	.0002	.0018	.0008	.0002	.0008	.0001	.0000	.0000	.7
%RSD	67.01	232.3	81.03	39.10	2.361	.2522	269.4	2.878	.2750
#1	.0005	.0020	.0004	-.0006	.0327	.0438	-.0000	.0013	271.3
#2	.0002	-.0005	.0015	-.0004	.0338	.0437	.0000	.0013	270.3
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	-.0006	.0008	-.0015	3.403	1.629	.0236	118.1	.4004
Stddev	.0001	.0001	.0001	.0000	.002	.016	.0002	.1	.0005
%RSD	37.20	19.78	9.505	.7117	.0478	.9758	.9174	.0509	.1334
#1	.0002	-.0005	.0008	-.0014	3.402	1.618	.0235	118.1	.4001
#2	.0003	-.0007	.0007	-.0015	3.404	1.640	.0238	118.1	.4008
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0022	114.6	.0007	.0032	-.0094	-.0029	F 262.7	-.0002	.0001
Stddev	.0000	.0	.0002	.0008	.0003	.0009	.3	.0004	.0002
%RSD	.3892	.0225	23.58	25.12	3.688	29.67	.1260	254.4	187.8
#1	.0022	114.6	.0008	.0038	-.0096	-.0023	262.5	.0001	-.0000
#2	.0022	114.6	.0006	.0027	-.0091	-.0036	263.0	-.0005	.0002
Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.505	-.0006	1.900	.0024	.0009	.0004	.0144	.6540	.0146
Stddev	.004	.0006	.002	.0003	.0005	.0000	.0000	.0009	.0002
%RSD	.0623	88.40	.0793	11.73	50.95	3.817	.1716	.1393	1.149
#1	6.502	-.0010	1.901	.0022	.0013	.0005	.0145	.6534	.0147
#2	6.508	-.0002	1.899	.0026	.0006	.0004	.0144	.6547	.0145

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Sample Name: MC32376-4 Acquired: 7/30/2014 17:19:34 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5779.3	2904.1	116340.	17597.
Stddev	3.4	.2	93.	64.
%RSD	.05865	.00762	.07972	.36652
#1	5781.7	2904.2	116410.	17643.
#2	5776.9	2903.9	116280.	17551.

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Sample Name: MC32347-1F Acquired: 7/30/2014 17:25:18 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0002	.0095	.0006	.0001	.0105	.0096	.0001	.0018	12.54
Stddev	.0003	.0015	.0002	.0004	.0000	.0001	.0000	.0008	.04
%RSD	156.8	15.59	26.30	828.2	.4062	.6393	60.54	44.02	.2963
#1	.0000	.0106	.0005	.0003	.0105	.0095	.0000	.0023	12.51
#2	-.0004	.0085	.0007	-.0002	.0105	.0096	.0001	.0012	12.56
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	-.0001	.0006	-.0007	.0083	1.720	.0007	2.060	.0204
Stddev	.0001	.0000	.0000	.0000	.0010	.010	.0002	.006	.0000
%RSD	84.50	40.41	1.076	6.899	11.61	.5824	23.18	.2879	.1441
#1	.0002	-.0001	.0006	-.0007	.0090	1.713	.0008	2.064	.0204
#2	.0001	-.0001	.0006	-.0007	.0076	1.727	.0006	2.056	.0204
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	5.712	.0004	-.0001	-.0002	-.0002	1.355	.0006	.0015
Stddev	.0001	.007	.0000	.0001	.0004	.0001	.007	.0001	.0002
%RSD	33.38	.1296	5.016	39.90	150.9	37.58	.5383	9.684	14.08
#1	.0005	5.717	.0004	-.0002	.0000	-.0002	1.350	.0006	.0016
#2	.0003	5.706	.0005	-.0001	-.0005	-.0001	1.360	.0005	.0013
Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.856	-.0004	.0876	.0010	-.0007	.0001	.0076	.0172	.0007
Stddev	.014	.0003	.0001	.0001	.0007	.0001	.0010	.0001	.0000
%RSD	.1972	57.21	.0682	12.67	89.75	62.43	12.78	.3306	3.423
#1	6.847	-.0006	.0876	.0010	-.0003	.0002	.0069	.0172	.0007
#2	6.866	-.0003	.0875	.0009	-.0012	.0001	.0083	.0173	.0008

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Sample Name: MC32347-1F Acquired: 7/30/2014 17:25:18 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6718.7	3184.4	127080.	18217.
Stddev	12.8	3.2	42.	30.
%RSD	.19006	.10153	.03308	.16319
#1	6709.7	3182.1	127050.	18238.
#2	6727.8	3186.7	127110.	18196.

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Sample Name: MC32348-1F Acquired: 7/30/2014 17:30:59 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0002	.0074	.0002	-.0001	.0252	.0271	-.0000	.0010	31.87
Stddev	.0000	.0023	.0008	.0005	.0001	.0000	.0000	.0001	.12
%RSD	22.30	31.18	424.5	531.6	.3826	.1149	615.6	12.44	.3663
#1	-.0002	.0058	-.0004	-.0005	.0251	.0271	-.0000	.0011	31.95
#2	-.0002	.0090	.0007	.0003	.0253	.0271	.0000	.0009	31.79
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	-.0005	.0003	-.0006	.0722	3.185	.0009	6.480	.0011
Stddev	.0000	.0001	.0001	.0000	.0006	.018	.0005	.072	.0000
%RSD	2.590	21.06	41.03	.7494	.8535	.5808	52.26	1.105	2.369
#1	.0002	-.0006	.0002	-.0006	.0718	3.198	.0013	6.531	.0011
#2	.0002	-.0004	.0004	-.0006	.0727	3.172	.0006	6.430	.0011
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009	70.87	.0025	-.0002	-.0010	-.0018	6.573	.0006	.0025
Stddev	.0000	.01	.0000	.0000	.0010	.0003	.001	.0001	.0001
%RSD	3.615	.0114	1.257	1.390	103.6	15.33	.0170	9.565	5.357
#1	.0008	70.87	.0025	-.0002	-.0017	-.0016	6.574	.0006	.0026
#2	.0009	70.88	.0024	-.0002	-.0003	-.0020	6.572	.0005	.0024
Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	7.528	-.0006	.2659	.0008	.0001	.0002	.0078	.0171	.0010
Stddev	.000	.0002	.0001	.0002	.0008	.0003	.0007	.0001	.0000
%RSD	.0025	33.67	.0234	29.71	812.7	157.9	9.603	.3710	4.406
#1	7.528	-.0004	.2658	.0006	.0007	-.0000	.0083	.0170	.0009
#2	7.528	-.0007	.2659	.0009	-.0005	.0004	.0072	.0171	.0010

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Sample Name: MC32348-1F Acquired: 7/30/2014 17:30:59 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6347.4	3112.5	123880.	18125.
Stddev	7.7	1.5	395.	139.
%RSD	.12207	.04793	.31887	.76500
#1	6352.8	3113.6	124160.	18027.
#2	6341.9	3111.5	123600.	18223.

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Sample Name: MC32348-5F Acquired: 7/30/2014 17:36:39 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0003	.0045	.0760	-0.0002	.0233	.0247	-0.0000	.0001	22.83
Stddev	.0002	.0031	.0004	.0004	.0003	.0006	.0000	.0002	.54
%RSD	57.10	68.96	.4938	200.1	1.357	2.466	220.9	182.3	2.380
#1	-0.0002	.0023	.0757	.0001	.0231	.0243	-0.0001	-0.0000	22.45
#2	-0.0005	.0066	.0762	-0.0005	.0235	.0251	.0000	.0003	23.22
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0006	.0033	.0002	-0.0007	17.22	3.720	-0.0012	2.592	.4532
Stddev	.0001	.0000	.0001	.0002	.41	.064	.0002	.059	.0002
%RSD	14.92	.0309	81.08	34.06	2.398	1.729	12.92	2.284	.0407
#1	.0006	.0033	.0001	-0.0005	16.93	3.674	-0.0013	2.550	.4533
#2	.0005	.0033	.0003	-0.0008	17.51	3.765	-0.0011	2.634	.4530
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0020	45.01	.0007	-0.0000	-0.0012	-0.0031	5.380	.0003	.0015
Stddev	.0001	1.13	.0000	.0003	.0010	.0010	.029	.0004	.0003
%RSD	4.737	2.516	.8655	690.6	80.03	32.48	.5343	116.1	19.69
#1	.0020	44.21	.0007	-0.0002	-0.0019	-0.0038	5.359	.0006	.0017
#2	.0021	45.81	.0008	.0001	-0.0005	-0.0024	5.400	.0001	.0013
Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	6.752	-0.0003	.0986	.0007	.0000	.0001	.0087	.0194	.0012
Stddev	.031	.0002	.0025	.0001	.0004	.0000	.0006	.0002	.0001
%RSD	.4584	87.48	2.559	21.11	1104.	40.67	7.139	.7828	8.738
#1	6.730	-0.0001	.0968	.0008	.0003	.0001	.0083	.0193	.0012
#2	6.774	-0.0004	.1004	.0006	-0.0002	.0000	.0092	.0195	.0013

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Sample Name: MC32348-5F Acquired: 7/30/2014 17:36:39 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6475.5	3142.4	126690.	18054.
Stddev	.4	3.8	221.	313.
%RSD	.00670	.12154	.17460	1.7314
#1	6475.8	3145.1	126540.	18275.
#2	6475.2	3139.7	126850.	17833.

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Sample Name: MC32348-6F Acquired: 7/30/2014 17:42:20 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0001	.0105	.0586	-0.0000	.0925	.0287	.0000	.0008	17.97
Stddev	.0000	.0025	.0004	.0001	.0004	.0003	.0000	.0008	.14
%RSD	10.50	23.74	.6321	313.4	4.814	1.105	443.4	108.7	.7984
#1	-0.0001	.0123	.0589	.0001	.0928	.0285	.0000	.0013	17.87
#2	-0.0001	.0087	.0584	-0.0001	.0922	.0290	-0.0000	.0002	18.07
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	.0005	.0003	.0010	7.936	4.138	-0.0054	.8879	.2643
Stddev	.0000	.0001	.0001	.0000	.015	.016	.0001	.0061	.0001
%RSD	2.223	22.87	37.37	3.537	.1873	.3917	2.575	.6876	.0308
#1	.0005	.0004	.0004	.0009	7.925	4.127	-0.0053	.8922	.2643
#2	.0005	.0006	.0002	.0010	7.946	4.150	-0.0055	.8836	.2644
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012	129.6	.0006	.0009	-0.0001	-0.0023	.7360	.0002	.0014
Stddev	.0000	.3	.0001	.0002	.0006	.0007	.0072	.0000	.0003
%RSD	.6875	.2668	24.01	19.62	554.1	30.08	.9732	12.09	17.79
#1	.0012	129.8	.0005	.0010	-0.0006	-0.0028	.7309	.0003	.0012
#2	.0012	129.3	.0007	.0007	.0003	-0.0018	.7410	.0002	.0016
Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.882	-0.0004	.1733	.0009	.0007	.0004	.0079	.0133	.0010
Stddev	.003	.0000	.0016	.0000	.0001	.0002	.0006	.0001	.0001
%RSD	.0746	11.35	.9128	3.723	13.67	46.24	7.913	.7010	11.94
#1	3.880	-0.0005	.1721	.0009	.0007	.0006	.0083	.0134	.0010
#2	3.884	-0.0004	.1744	.0009	.0006	.0003	.0074	.0133	.0011

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Sample Name: MC32348-6F Acquired: 7/30/2014 17:42:20 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6278.3	3132.8	124820.	18263.
Stddev	9.4	2.2	109.	105.
%RSD	.14948	.07181	.08760	.57670
#1	6284.9	3134.4	124900.	18338.
#2	6271.6	3131.2	124740.	18189.

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Sample Name: MC32348-7F Acquired: 7/30/2014 17:48:03 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0095	.0008	.0002	.0325	.0167	.0000	.0009	21.11
Stddev	.0000	.0011	.0005	.0005	.0001	.0003	.0000	.0001	.01
%RSD	51.41	11.20	65.72	218.8	.2145	1.555	155.3	7.104	.0564
#1	.0001	.0103	.0004	.0005	.0325	.0169	-.0000	.0009	21.12
#2	.0000	.0088	.0012	-.0001	.0324	.0165	.0000	.0010	21.10
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0001	.0002	.0019	.0069	3.738	-.0023	1.755	.0043
Stddev	.0000	.0001	.0000	.0000	.0009	.024	.0005	.024	.0000
%RSD	31.81	64.57	4.869	1.690	13.18	.6283	20.93	1.344	1.151
#1	.0001	.0001	.0003	.0019	.0062	3.722	-.0019	1.738	.0043
#2	.0002	.0001	.0002	.0020	.0075	3.755	-.0026	1.771	.0042
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009	62.66	.0001	.0001	-.0006	-.0009	4.753	-.0002	.0019
Stddev	.0000	.02	.0002	.0002	.0014	.0004	.036	.0001	.0014
%RSD	.9872	.0355	315.9	141.8	224.1	46.20	.7520	63.29	74.27
#1	.0009	62.68	-.0001	-.0000	.0004	-.0012	4.728	-.0003	.0009
#2	.0009	62.64	.0002	.0003	-.0016	-.0006	4.778	-.0001	.0029
Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.275	-.0001	.1315	.0006	-.0007	.0001	.0087	.0132	.0007
Stddev	.046	.0003	.0001	.0001	.0000	.0001	.0001	.0001	.0000
%RSD	.8762	311.3	.0762	13.88	1.395	107.9	1.298	.6068	3.024
#1	5.243	-.0003	.1316	.0007	-.0007	.0002	.0086	.0132	.0007
#2	5.308	.0001	.1315	.0006	-.0007	.0000	.0088	.0133	.0007

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Sample Name: MC32348-7F Acquired: 7/30/2014 17:48:03 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6441.2	3153.4	127590.	18368.
Stddev	62.6	31.2	22.	30.
%RSD	.97171	.99074	.01690	.16459
#1	6485.5	3175.5	127570.	18389.
#2	6397.0	3131.3	127600.	18346.

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Sample Name: CCV Acquired: 7/30/2014 17:53:44 Type: QC
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.475	9.887	1.977	1.970	1.995	1.957	1.977	2.026	9.775
Stddev	.0001	.022	.001	.003	.001	.006	.006	.002	.000
%RSD	.0370	.2272	.0469	.1403	.0381	.3103	.2980	.1126	.0017
#1	2.475	9.903	1.977	1.968	1.994	1.961	1.981	2.024	9.776
#2	2.474	9.871	1.976	1.972	1.995	1.953	1.973	2.027	9.775
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value Range									
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.990	1.967	1.923	1.891	10.04	9.640	1.941	9.764	1.982
Stddev	.001	.003	.007	.010	.03	.035	.005	.039	.004
%RSD	.0349	.1386	.3577	.5465	.2654	.3595	.2501	.3958	.1820
#1	1.990	1.966	1.918	1.883	10.05	9.665	1.944	9.737	1.979
#2	1.989	1.969	1.928	1.898	10.02	9.616	1.938	9.792	1.984
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
Value Range									
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.994	9.886	1.976	1.968	1.947	1.971	1.989	1.981	1.975
Stddev	.008	.030	.001	.001	.005	.016	.003	.003	.004
%RSD	.3806	.3040	.0312	.0526	.2408	.8182	.1639	.1447	.2145
#1	1.988	9.907	1.975	1.967	1.944	1.959	1.991	1.979	1.972
#2	1.999	9.864	1.976	1.969	1.951	1.982	1.987	1.983	1.978
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value Range									

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Sample Name: CCV Acquired: 7/30/2014 17:53:44 Type: QC
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.045	2.011	2.014	1.925	2.001	1.933	1.927	1.980	1.959
Stddev	.000	.002	.008	.007	.001	.006	.008	.002	.007
%RSD	.0200	.0850	.3838	.3678	.0496	.3080	.4259	.0953	.3564
#1	2.045	2.010	2.020	1.920	2.002	1.929	1.921	1.978	1.954
#2	2.046	2.012	2.009	1.930	2.000	1.938	1.933	1.981	1.964
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value Range									
Int. Std.	In2306	Y_2243	Y_3600	Y_3710					
Units	Cts/S	Cts/S	Cts/S	Cts/S					
Avg	6535.0	3205.9	127590.	18131.					
Stddev	9.0	2.5	82.	76.					
%RSD	.13764	.07776	.06444	.41773					
#1	6541.4	3207.7	127530.	18185.					
#2	6528.7	3204.2	127650.	18078.					

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Sample Name: CCB Acquired: 7/30/2014 17:59:11 Type: QC
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0005	.0008	.0009	.0032	.0001	.0001	.0002	.0016
Stddev	.0000	.0026	.0003	.0002	.0003	.0001	.0000	.0005	.0012
%RSD	9.654	525.4	43.17	23.44	9.372	57.15	28.83	224.6	73.72
#1	.0002	-.0013	.0006	.0008	.0034	.0001	.0001	.0006	.0008
#2	.0002	.0023	.0011	.0011	.0030	.0002	.0001	-.0001	.0025

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0001	-.0000	.0005	.0030	.0444	.0011	.0237	.0002
Stddev	.0000	.0000	.0001	.0001	.0005	.0064	.0008	.0022	.0000
%RSD	1.937	27.72	169.7	12.75	17.96	14.46	78.17	9.185	10.30
#1	.0002	.0001	.0000	.0006	.0033	.0489	.0017	.0222	.0002
#2	.0002	.0001	-.0001	.0005	.0026	.0398	.0005	.0253	.0002

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0052	.0236	.0002	-.0003	.0005	.0022	.0038	.0001	.0020
Stddev	.0012	.0006	.0001	.0005	.0001	.0008	.0006	.0004	.0004
%RSD	23.60	2.514	48.04	166.2	24.45	34.78	14.43	547.3	21.52
#1	.0061	.0240	.0003	-.0006	.0006	.0016	.0042	-.0002	.0023
#2	.0044	.0231	.0002	.0001	.0004	.0027	.0034	.0004	.0017

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

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Sample Name: CCB Acquired: 7/30/2014 17:59:11 Type: QC
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007	.0004	.0001	.0004	.0011	.0001	F .0125	.0003	.0013
Stddev	.0006	.0001	.0000	.0000	.0002	.0001	.0011	.0001	.0000
%RSD	78.40	18.00	13.84	5.827	19.54	94.92	9.126	37.81	3.734
#1	.0011	.0004	.0001	.0004	.0013	.0002	.0134	.0002	.0013
#2	.0003	.0003	.0001	.0004	.0009	.0000	.0117	.0003	.0013

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Fail Chk Pass Chk Pass
High Limit
Low Limit
-.0100

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6844.6	3241.1	130140.	18500.
Stddev	36.2	14.4	10.	88.
%RSD	.52955	.44555	.00736	.47659
#1	6818.9	3230.9	130140.	18437.
#2	6870.2	3251.3	130130.	18562.

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Sample Name: MC32348-8F Acquired: 7/30/2014 18:04:55 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	.0000	.0891	-.0012	.0476	.0170	-.0000	.0013	22.08
Stddev	.0002	.0014	.0006	.0007	.0008	.0002	.0000	.0010	.07
%RSD	36.66	3232.	.6869	59.41	1.661	.9040	137.8	75.69	.3063
#1	.0006	.0010	.0887	-.0016	.0470	.0169	-.0000	.0006	22.03
#2	.0003	-.0009	.0895	-.0007	.0481	.0172	-.0000	.0021	22.12

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009	.0040	-.0000	.0011	13.53	4.870	-.0046	1.216	1.726
Stddev	.0001	.0001	.0001	.0002	.04	.041	.0009	.034	.007
%RSD	9.783	1.711	368.0	16.01	.3294	.8407	19.71	2.787	.3914
#1	.0009	.0040	-.0001	.0012	13.50	4.841	-.0053	1.192	1.722
#2	.0008	.0041	.0001	.0010	13.56	4.899	-.0040	1.240	1.731

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0036	103.0	.0008	-.0012	-.0009	.0995	.0004	.0009	.0009
Stddev	.0000	.3	.0001	.0002	.0009	.0010	.0016	.0002	.0008
%RSD	.0303	.2949	6.671	351.4	72.38	111.6	1.617	47.26	88.74
#1	.0036	102.8	.0008	.0002	-.0006	-.0017	.0984	.0003	.0015
#2	.0036	103.2	.0008	-.0001	-.0018	-.0002	.1006	.0006	.0003

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.229	-.0003	.1583	.0007	-.0005	.0001	.0124	.0080	.0022
Stddev	.030	.0002	.0005	.0001	.0001	.0000	.0009	.0003	.0000
%RSD	.7156	89.17	.3346	11.17	13.70	42.32	6.995	4.003	.7219
#1	4.208	-.0004	.1579	.0008	-.0004	.0001	.0130	.0078	.0022
#2	4.251	-.0001	.1587	.0007	-.0005	.0001	.0118	.0082	.0023

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Sample Name: MC32348-8F Acquired: 7/30/2014 18:04:55 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6202.4	3084.0	123060.	18036.
Stddev	26.2	14.9	620.	9.
%RSD	.42298	.48377	.50385	.05173
#1	6220.9	3094.6	123500.	18043.
#2	6183.8	3073.5	122620.	18030.

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Sample Name: MC32348-9F Acquired: 7/30/2014 18:10:36 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0038	.0499	.0000	.0429	.0135	.0000	.0011	15.37
Stddev	.0000	.0002	.0002	.0009	.0003	.0000	.0000	.0005	.02
%RSD	10.34	5.104	.4923	.4513.	.6949	.2623	47.62	41.60	.1379
#1	.0003	.0039	.0500	-.0006	.0427	.0134	.0000	.0008	15.38
#2	.0004	.0037	.0497	.0007	.0431	.0135	.0000	.0015	15.35
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	.0025	-.0000	.0007	8.644	3.004	-.0011	.8153	1.221
Stddev	.0000	.0002	.0003	.0001	.001	.017	.0000	.0142	.001
%RSD	4.989	6.386	2494.	9.727	.0073	.5692	2.383	1.744	.1135
#1	.0005	.0024	-.0002	.0007	8.644	2.992	-.0011	.8254	1.222
#2	.0005	.0026	.0002	.0006	8.645	3.016	-.0010	.8053	1.220
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0024	34.91	.0005	-.0005	-.0007	-.0009	.5687	-.0003	.0010
Stddev	.0001	.00	.0002	.0004	.0001	.0002	.0022	.0004	.0015
%RSD	5.563	.0071	36.62	70.15	14.38	21.20	.3871	136.9	146.9
#1	.0025	34.91	.0007	-.0003	-.0006	-.0010	.5671	-.0000	-.0000
#2	.0023	34.91	.0004	-.0008	-.0008	-.0008	.5703	-.0005	.0021
Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.361	-.0002	.0781	.0005	.0003	.0000	.0101	.0203	.0014
Stddev	.003	.0003	.0001	.0001	.0002	.0001	.0002	.0000	.0000
%RSD	.0788	159.9	.1639	18.97	55.93	245.8	2.336	.2111	3.258
#1	4.359	-.0005	.0782	.0006	.0002	-.0000	.0102	.0202	.0014
#2	4.364	.0000	.0780	.0004	.0004	.0001	.0099	.0203	.0013

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Sample Name: MC32348-9F Acquired: 7/30/2014 18:10:36 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6530.3	3173.1	127320.	18630.
Stddev	1.4	.1	119.	9.
%RSD	.02098	.00376	.09332	.04855
#1	6531.3	3173.0	127240.	18637.
#2	6529.4	3173.2	127410.	18624.

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Sample Name: MC32348-10F Acquired: 7/30/2014 18:16:15 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007	.0073	.0918	-.0012	.0478	.0532	-.0000	.0001	30.11
Stddev	.0000	.0004	.0008	.0001	.0002	.0004	.0000	.0002	.07
%RSD	.2149	4.896	.8982	8.372	.4452	.6793	19.51	159.1	.2342
#1	.0007	.0075	.0912	-.0011	.0476	.0535	-.0000	-.0000	30.06
#2	.0007	.0070	.0924	-.0012	.0479	.0530	-.0000	.0003	30.16
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007	.0044	.0002	.0022	35.24	5.134	-.0036	2.700	1.642
Stddev	.0000	.0001	.0002	.0001	.10	.002	.0005	.002	.009
%RSD	3.645	1.212	115.4	3.520	.2908	.0454	14.37	.0547	.5326
#1	.0007	.0045	.0000	.0023	35.17	5.136	-.0033	2.701	1.636
#2	.0007	.0044	.0003	.0022	35.31	5.132	-.0040	2.699	1.648
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0028	95.27	.0001	.0004	-.0026	-.0045	.4220	.0004	.0019
Stddev	.0001	.28	.0002	.0003	.0003	.0006	.0001	.0005	.0003
%RSD	2.085	.2978	194.6	71.24	12.55	12.88	.0230	105.6	18.31
#1	.0028	95.07	.0002	.0006	-.0024	-.0049	.4220	.0008	.0016
#2	.0027	95.47	-.0000	.0002	-.0028	-.0041	.4221	.0001	.0021
Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.331	.0002	.1504	.0008	.0000	-.0000	.0106	.0110	.0021
Stddev	.002	.0004	.0004	.0001	.0000	.0000	.0002	.0001	.0001
%RSD	.0444	255.4	.2659	10.23	28.52	68.82	1.762	.5798	3.559
#1	5.330	.0004	.1501	.0007	.0000	-.0000	.0107	.0109	.0022
#2	5.333	-.0001	.1507	.0008	.0000	-.0000	.0105	.0110	.0021

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Sample Name: MC32348-10F Acquired: 7/30/2014 18:16:15 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6255.4	3107.5	125380.	18379.
Stddev	5.7	4.1	570.	35.
%RSD	.09122	.13236	.45436	.19314
#1	6259.5	3110.4	125790.	18404.
#2	6251.4	3104.6	124980.	18354.

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Sample Name: MC32348-11F Acquired: 7/30/2014 18:21:54 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009	-0.016	.1301	-0.013	.0360	.0296	-0.000	.0004	25.35
Stddev	.0003	.0036	.0012	.0004	.0003	.0001	.0000	.0002	.03
%RSD	31.18	220.3	8948	32.84	.8073	.1985	284.9	45.61	.1248
#1	.0011	.0009	.1309	-.0010	.0362	.0296	.0000	.0003	25.37
#2	.0007	-.0042	.1293	-.0016	.0358	.0297	-.0000	.0005	25.33
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011	.0008	.0001	.0018	29.31	4.869	-0.020	2.362	2.026
Stddev	.0000	.0000	.0000	.0001	.00	.014	.0001	.018	.005
%RSD	3.608	2.753	9.454	4.818	.0072	.2788	6.254	.7473	.2455
#1	.0011	.0009	.0001	.0019	29.31	4.859	-.0021	2.374	2.022
#2	.0011	.0008	.0001	.0018	29.31	4.878	-.0019	2.349	2.029
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0035	59.67	.0023	.0025	-0.024	-0.012	.1488	.0012	.0013
Stddev	.0001	.02	.0000	.0007	.0001	.0011	.0000	.0001	.0006
%RSD	1.774	.0269	.0331	27.61	3.698	98.69	.0202	7.203	50.67
#1	.0035	59.68	.0023	.0020	-.0024	-.0020	.1488	.0011	.0017
#2	.0036	59.65	.0023	.0029	-.0025	-.0004	.1488	.0012	.0008
Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.994	-0.002	.1335	.0005	.0002	-0.001	.0075	.0079	.0033
Stddev	.037	.0002	.0001	.0001	.0007	.0000	.0004	.0001	.0001
%RSD	.6250	136.6	.0585	13.05	374.1	9.714	5.342	.8132	2.598
#1	6.021	-.0003	.1336	.0005	-.0003	-.0001	.0077	.0079	.0034
#2	5.968	-.0000	.1334	.0006	.0007	-.0001	.0072	.0078	.0032

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Sample Name: MC32348-11F Acquired: 7/30/2014 18:21:54 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6316.2	3104.3	125050.	18117.
Stddev	28.8	19.2	82.	27.
%RSD	.45583	.61940	.06539	.14839
#1	6295.8	3090.7	125100.	18136.
#2	6336.5	3117.9	124990.	18098.

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Sample Name: MC32349-2F Acquired: 7/30/2014 18:27:34 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0066	.0003	-0.001	.0115	.0055	-0.000	.0012	10.51
Stddev	.0000	.0023	.0004	.0005	.0002	.0000	.0000	.0006	.02
%RSD	12.24	34.30	113.4	362.6	1.732	.8195	53.87	45.49	.1797
#1	.0003	.0082	.0001	-.0005	.0113	.0055	-.0000	.0008	10.50
#2	.0002	.0050	.0006	-.0002	.0116	.0055	-.0000	.0016	10.52
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	-0.003	.0002	.0013	.0118	1.671	.0000	1.597	.0069
Stddev	.0000	.0001	.0001	.0002	.0005	.015	.0003	.016	.0001
%RSD	8.171	20.49	42.52	19.77	3.883	.8864	2795.	.9778	.7359
#1	.0002	-.0003	.0001	.0011	.0122	1.681	.0002	1.586	.0069
#2	.0002	-.0003	.0003	.0014	.0115	1.660	-.0002	1.609	.0069
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	9.887	.0007	.0000	-0.001	-0.000	2.890	-0.001	.0008
Stddev	.0001	.002	.0001	.0007	.0002	.0022	.001	.0001	.0002
%RSD	21.82	.0216	14.83	3543.	237.5	6678.	.0387	204.6	29.25
#1	.0004	9.886	.0006	-.0005	.0001	.0015	2.889	-.0002	.0010
#2	.0006	9.889	.0007	.0005	-.0003	-.0016	2.891	.0000	.0007
Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.990	-0.002	.0932	.0007	-0.004	-0.000	.0079	.0195	.0009
Stddev	.017	.0002	.0001	.0001	.0000	.0000	.0003	.0000	.0000
%RSD	.2865	126.6	.0733	15.75	4.578	904.9	3.758	.2543	.2977
#1	5.978	-.0000	.0932	.0006	-.0004	.0000	.0077	.0196	.0009
#2	6.002	-.0003	.0933	.0008	-.0004	-.0000	.0081	.0195	.0009

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Sample Name: MC32349-2F Acquired: 7/30/2014 18:27:34 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6690.0	3195.7	128380.	18599.
Stddev	6.9	1.3	172.	15.
%RSD	.10242	.04078	.13365	.08203
#1	6685.1	3194.8	128510.	18610.
#2	6694.8	3196.7	128260.	18588.

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Sample Name: MC32350-1F Acquired: 7/30/2014 18:33:14 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0012	.0009	-.0002	.0148	.0271	-.0000	.0004	21.02
Stddev	.0003	.0010	.0003	.0002	.0000	.0002	.0000	.0002	.03
%RSD	100.9	86.75	40.18	108.7	.0528	.7531	134.9	51.29	.1393
#1	.0001	.0019	.0006	-.0000	.0148	.0273	-.0000	.0003	21.04
#2	.0005	.0005	.0011	-.0003	.0148	.0270	-.0000	.0006	21.00

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	-.0003	.0005	.0020	.0062	4.393	-.0046	2.089	.0198
Stddev	.0000	.0000	.0002	.0002	.0002	.017	.0001	.005	.0000
%RSD	11.35	11.22	32.67	10.83	3.269	.3827	3.138	.2195	.0246
#1	.0001	-.0003	.0004	.0019	.0061	4.405	-.0047	2.092	.0198
#2	.0001	-.0003	.0007	.0022	.0064	4.381	-.0045	2.085	.0198

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012	109.7	.0004	-.0006	-.0010	-.0010	2.489	.0002	.0001
Stddev	.0001	.3	.0002	.0001	.0005	.0006	.005	.0003	.0015
%RSD	8.760	.2534	48.92	21.71	48.61	57.98	.1951	171.8	1108.
#1	.0013	109.9	.0005	-.0005	-.0006	-.0013	2.492	.0004	.0012
#2	.0011	109.5	.0002	-.0006	-.0013	-.0006	2.486	-.0000	-.0009

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.385	-.0005	.1228	.0006	.0001	.0000	.0052	.0101	.0011
Stddev	.004	.0002	.0003	.0000	.0003	.0000	.0003	.0000	.0000
%RSD	.0696	37.57	2341	.2769	309.2	5.181	5.722	.4233	1.921
#1	5.388	-.0004	.1230	.0006	.0003	.0000	.0054	.0100	.0012
#2	5.382	-.0007	.1226	.0006	-.0001	.0000	.0050	.0101	.0011

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Sample Name: MC32350-1F Acquired: 7/30/2014 18:33:14 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6244.6	3107.9	124410.	18210.
Stddev	9.7	3.6	245.	2.
%RSD	.15507	.11490	.19727	.00941
#1	6251.4	3110.4	124240.	18211.
#2	6237.7	3105.4	124580.	18208.

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Sample Name: RINSECONF Acquired: 7/30/2014 18:38:54 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0038	.0006	.0002	.0011	-.0001	.0001	.0004	.0031
Stddev	.0002	.0016	.0002	.0001	.0003	.0001	.0000	.0001	.0005
%RSD	6523.	41.80	31.37	37.23	25.79	199.1	28.51	28.60	17.45
#1	.0001	.0027	.0008	.0003	.0013	.0000	.0001	.0005	.0027
#2	-.0001	.0049	.0005	.0002	.0009	-.0001	.0001	.0003	.0035

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	-.0000	.0000	.0006	.0016	.0219	-.0003	.0114	.0001
Stddev	.0001	.0002	.0000	.0004	.0014	.0033	.0000	.0038	.0000
%RSD	76.60	2942.	85.98	65.17	92.95	15.06	6.004	33.25	6.535
#1	.0001	-.0001	.0000	.0009	.0026	.0243	-.0003	.0141	.0001
#2	.0000	.0001	.0001	.0003	.0005	.0196	-.0003	.0087	.0001

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0280	.0001	.0001	-.0000	.0001	.0036	.0002	.0005
Stddev	.0000	.0041	.0001	.0002	.0001	.0016	.0011	.0001	.0003
%RSD	16.11	14.68	209.5	255.8	324.0	1094.	29.51	39.39	68.09
#1	.0003	.0251	.0001	-.0001	.0001	.0013	.0029	.0003	.0002
#2	.0002	.0309	-.0000	.0002	-.0001	-.0010	.0044	.0002	.0007

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0008	.0004	.0001	.0003	.0001	.0001	.0031	.0001	.0004
Stddev	.0005	.0005	.0000	.0002	.0001	.0000	.0007	.0001	.0000
%RSD	63.42	127.1	33.30	55.92	95.60	46.29	23.04	57.37	3.344
#1	.0012	.0008	.0001	.0002	.0002	.0001	.0026	.0001	.0004
#2	.0005	.0000	.0001	.0004	.0000	.0001	.0036	.0002	.0004

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Sample Name: RINSECONF Acquired: 7/30/2014 18:38:54 Type: Unk
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6833.2	3233.8	129400.	18192.
Stddev	4.5	1.4	486.	8.
%RSD	.06645	.04182	.37567	.04668
#1	6836.4	3234.8	129050.	18198.
#2	6830.0	3232.8	129740.	18186.

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Sample Name: CRI Acquired: 7/30/2014 18:44:35 Type: QC									
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0053	.2068	.0036	.0495	.1044	.0494	.0040	.0541	4.950
Stddev	.0000	.0006	.0005	.0003	.0001	.0002	.0000	.0004	.015
%RSD	.9429	.2720	14.62	.6648	.0671	.3452	.4190	.7210	.2920
#1	.0053	.2072	.0039	.0497	.1043	.0495	.0041	.0544	4.961
#2	.0053	.2064	.0032	.0493	.1044	.0493	.0040	.0538	4.940
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
Value									
Range									
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0039	.0512	.0105	.0239	.1085	4.940	.4839	5.008	.0159
Stddev	.0001	.0000	.0002	.0002	.0014	.008	.0017	.060	.0001
%RSD	2.158	.0378	2.028	.8540	1.326	.1661	.3446	1.201	.6552
#1	.0038	.0512	.0107	.0237	.1074	4.946	.4827	5.051	.0160
#2	.0040	.0512	.0104	.0240	.1095	4.934	.4851	4.966	.0158
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
Value									
Range									
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1064	4.914	.0425	.0046	.0503	.0506	.0536	.0053	.0107
Stddev	.0003	.013	.0000	.0003	.0002	.0003	.0005	.0001	.0006
%RSD	.2799	.2600	.1149	6.579	.4604	.5574	.9265	2.062	5.287
#1	.1062	4.905	.0425	.0044	.0504	.0504	.0532	.0054	.0103
#2	.1066	4.923	.0424	.0048	.0501	.0508	.0539	.0052	.0111
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None	None	Chk Pass	Chk Pass
Value									
Range									

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Sample Name: CRI Acquired: 7/30/2014 18:44:35 Type: QC									
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1113	.1033	.0102	.0496	.0044	.0100	.1045	.0212	.0430
Stddev	.0003	.0005	.0000	.0001	.0007	.0001	.0001	.0002	.0002
%RSD	.3064	.4472	.4338	.2902	15.17	.6724	.0984	.7131	.4801
#1	.1116	.1030	.0102	.0497	.0048	.0101	.1044	.0211	.0429
#2	.1111	.1036	.0102	.0495	.0039	.0100	.1045	.0213	.0432
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	None
Value									
Range									
Int. Std.	In2306	Y_2243	Y_3600	Y_3710					
Units	Cts/S	Cts/S	Cts/S	Cts/S					
Avg	6682.6	3204.4	128430.	18397.					
Stddev	3.6	1.2	114.	104.					
%RSD	.05429	.03699	.08851	.56592					
#1	6680.0	3203.6	128350.	18324.					
#2	6685.2	3205.2	128510.	18471.					

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Sample Name: ICSEA Acquired: 7/30/2014 18:50:12 Type: QC									
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0021	522.2	-.0006	-.0046	.0024	.0004	.0001	.0014	450.7
Stddev	.0002	5.8	.0002	.0003	.0006	.0001	.0000	.0001	2.0
%RSD	7.674	1.109	27.09	6.784	23.97	13.25	43.63	10.42	.4447
#1	.0020	518.1	-.0005	-.0048	.0020	.0004	.0001	.0013	449.3
#2	.0022	526.3	-.0007	-.0043	.0028	.0003	.0001	.0015	452.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0006	.0004	.0011	185.3	-.0924	.0067	521.0	.0010
Stddev	.0000	.0001	.0004	.0001	.3	.0045	.0002	1.9	.0000
%RSD	10.27	15.70	94.38	9.584	.1769	4.838	2.251	.3720	1.700
#1	.0002	.0005	.0006	.0011	185.0	-.0955	.0068	519.7	.0010
#2	.0003	.0006	.0001	.0012	185.5	-.0892	.0066	522.4	.0010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit									
Low Limit									
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0019	.1540	-.0006	.0000	-.0336	-.0243	.0387	-.0001	.0044
Stddev	.0000	.0051	.0002	.0021	.0006	.0012	.0025	.0003	.0019
%RSD	2.514	3.304	36.23	15430.	1.856	4.876	6.436	282.7	44.12
#1	.0020	.1504	-.0007	.0015	-.0331	-.0251	.0405	.0001	.0030
#2	.0019	.1576	-.0004	-.0015	-.0340	-.0234	.0370	-.0003	.0058
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

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Sample Name: ICSEA Acquired: 7/30/2014 18:50:12 Type: QC									
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0219	.0022	.0013	.0006	-.0001	-.0003	.0162	.0030	.0016
Stddev	.0017	.0002	.0000	.0004	.0004	.0001	.0011	.0003	.0000
%RSD	7.885	8.796	2.193	61.88	327.0	41.91	6.961	9.002	.1717
#1	.0231	.0023	.0012	.0003	-.0004	-.0004	.0154	.0031	.0016
#2	.0207	.0021	.0013	.0009	.0002	-.0002	.0170	.0028	.0016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									
Int. Std.	In2306	Y_2243	Y_3600	Y_3710					
Units	Cts/S	Cts/S	Cts/S	Cts/S					
Avg	5411.7	2827.4	112410.	17570.					
Stddev	5.9	2.7	92.	79.					
%RSD	.10964	.09403	.08206	.44745					
#1	5415.9	2829.3	112350.	17626.					
#2	5407.5	2825.5	112480.	17515.					

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Sample Name: ICSAB Acquired: 7/30/2014 18:55:57 Type: QC
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.032	518.6	2.033	5036	9916	4786	4772	5039	450.5
Stddev	.001	6.1	.002	.0018	.0017	.0006	.0007	.0016	.6
%RSD	.0696	1.174	.0992	.3492	.1682	.1270	.1546	.3236	.1272
#1	1.033	514.3	2.031	5024	9904	4782	4767	5051	450.9
#2	1.032	522.9	2.034	5049	9928	4790	4778	5028	450.1

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass None Chk Pass
High Limit
Low Limit

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.024	4687	4583	5100	180.3	-0.0975	5177	519.9	4833
Stddev	.000	.0004	.0010	.0008	.5	.0143	.0008	1.8	.0004
%RSD	.0127	.0937	.2112	.1640	.2692	14.68	.1616	.3402	.0745
#1	1.024	4684	4590	5106	179.9	-0.0873	5171	518.7	4830
#2	1.024	4690	4576	5094	180.6	-.1076	5183	521.2	4835

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9326	1496	9166	9154	5159	4907	5451	2.112	2.028
Stddev	.0035	.0019	.0006	.0032	.0002	.0046	.0035	.002	.010
%RSD	.3799	1.242	.0631	.3468	.0451	.9438	.6384	.0905	.4823
#1	9301	1509	9170	9132	5160	4939	5426	2.114	2.021
#2	9351	1483	9162	9177	5157	4874	5476	2.111	2.035

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

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Sample Name: ICSAB Acquired: 7/30/2014 18:55:57 Type: QC
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.004	.9179	.9796	4707	1.807	4734	1.845	.8824	.3506
Stddev	.003	.0005	.0017	.0002	.003	.0000	.010	.0007	.0068
%RSD	.1593	.0551	.1716	.0512	.1695	.0020	.5215	.0844	1.951
#1	2.002	.9175	.9784	4708	1.805	4734	1.838	.8819	.3458
#2	2.006	.9182	.9807	4705	1.809	4734	1.852	.8829	.3555

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5416.1	2834.2	111130.	17570.
Stddev	8.2	5.0	2.	29.
%RSD	.15147	.17733	.00162	.16676
#1	5410.3	2830.7	111130.	17591.
#2	5421.9	2837.8	111130.	17549.

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Sample Name: CCV Acquired: 7/30/2014 19:01:35 Type: QC
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.464	9.840	1.991	1.980	1.992	1.966	1.972	2.031	9.741
Stddev	.0004	.014	.004	.004	.005	.001	.002	.006	.012
%RSD	.1504	.1400	.2180	.1805	.2536	.0685	.1072	.3067	.1270
#1	2.461	9.850	1.988	1.977	1.988	1.967	1.973	2.027	9.749
#2	2.466	9.831	1.994	1.982	1.995	1.965	1.970	2.036	9.732

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass None Chk Pass
Value
Range

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.978	1.970	1.931	1.912	9.935	9.645	1.941	9.756	1.989
Stddev	.004	.003	.001	.004	.003	.008	.001	.004	.001
%RSD	.2255	.1696	.0564	.1965	.0277	.0803	.0383	.8556	.0292
#1	1.975	1.968	1.931	1.909	9.937	9.640	1.940	9.815	1.989
#2	1.981	1.972	1.932	1.915	9.933	9.651	1.941	9.697	1.990

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.993	9.710	1.984	1.964	1.973	1.984	1.988	1.995	
Stddev	.010	.005	.004	.003	.003	.001	.005	.007	.006
%RSD	.4805	.0496	.2292	.1414	.1273	.0525	.2398	.3319	.2887
#1	1.987	9.713	1.981	1.962	1.944	1.974	1.980	1.983	1.991
#2	2.000	9.706	1.987	1.966	1.948	1.972	1.987	1.992	1.999

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

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Sample Name: CCV Acquired: 7/30/2014 19:01:35 Type: QC
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.053	2.013	2.001	1.941	2.000	1.946	1.934	1.978	1.995
Stddev	.008	.006	.002	.000	.003	.001	.006	.001	.005
%RSD	.3862	.2806	.1030	.0069	.1677	.0384	.3057	.0306	.2291
#1	2.048	2.009	2.002	1.941	1.998	1.946	1.930	1.978	1.998
#2	2.059	2.017	2.000	1.941	2.002	1.947	1.938	1.978	1.991

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6532.7	3211.3	127740.	18470.
Stddev	8.8	6.8	163.	19.
%RSD	.13526	.21244	.12784	.10385
#1	6538.9	3216.1	127860.	18456.
#2	6526.4	3206.5	127630.	18483.

Raw Data MA17395 page 148 of 150

Sample Name: CCB Acquired: 7/30/2014 19:07:02 Type: QC
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0063	.0009	.0010	.0033	-.0000	.0000	.0010	.0052
Stddev	.0001	.0035	.0003	.0003	.0003	.0000	.0000	.0001	.0013
%RSD	62.75	54.42	38.08	30.73	8.752	1755.	34.10	11.26	24.51
#1	.0001	.0088	.0006	.0012	.0035	.0000	.0001	.0011	.0043
#2	.0003	.0039	.0011	.0008	.0031	-.0000	.0000	.0009	.0061

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0001	-.0001	.0017	.0042	.0180	.0004	.0212	.0001
Stddev	.0001	.0002	.0001	.0001	.0013	.0131	.0003	.0093	.0000
%RSD	30.23	190.0	153.4	5.187	31.91	73.07	88.08	44.16	7.954
#1	.0002	.0002	.0000	.0016	.0052	.0087	.0006	.0278	.0000
#2	.0003	-.0000	-.0002	.0017	.0033	.0273	.0001	.0146	.0001

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0052	.0205	.0003	-.0004	.0001	-.0008	.0006	-.0000	.0009
Stddev	.0010	.0043	.0000	.0003	.0002	.0005	.0006	.0003	.0003
%RSD	18.71	21.12	4.182	78.95	109.4	67.42	107.7	898.5	31.91
#1	.0059	.0236	.0003	-.0002	.0000	-.0012	.0010	.0002	.0007
#2	.0045	.0174	.0003	-.0007	.0002	-.0004	.0001	-.0002	.0011

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Raw Data MA17395 page 149 of 150

Sample Name: CCB Acquired: 7/30/2014 19:07:02 Type: QC
Method: Accutest2(v76) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0000	.0002	.0000	.0005	.0007	.0001	F .0154	.0002	.0013
Stddev	.0008	.0004	.0000	.0002	.0000	.0001	.0010	.0000	.0000
%RSD	1870.	252.6	38.15	47.00	5.891	148.7	6.528	16.48	1.466
#1	.0005	-.0001	.0000	.0003	.0006	.0002	.0162	.0003	.0013
#2	-.0006	.0004	.0000	.0007	.0007	-.0000	.0147	.0002	.0013

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Fail Chk Pass Chk Pass
High Limit
Low Limit
-.0100
-.0100

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6853.2	3248.0	130350.	18406.
Stddev	8.4	3.2	449.	14.
%RSD	.12295	.09861	.34480	.07843
#1	6847.3	3245.8	130030.	18417.
#2	6859.2	3250.3	130670.	18396.

Raw Data MA17395 page 150 of 150

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
Ag 328.068 {103}	☒	10	Fe	-0.000108	0.000000	No
			Mn	0.000068	0.000000	No
			Ti	-0.000162	0.000000	No
			V	-0.000406	0.000000	No
			Cu	-0.000053	0.000000	No
			Mo	-0.000129	0.000000	No
			Zr	0.003220	0.000000	No
			Al	-0.000002	0.000000	No
			Ca	-0.000002	0.000000	No
			Mg	-0.000001	0.000000	No
Al 396.152 { 85}	☒	4	Na	0.000009	0.000000	No
			Mo	0.035978	0.000000	No
			Mn	0.001597	0.000000	No
			Ca	0.000028	0.000000	No
As 189.042 {478}	☒	15	Fe	-0.000002	0.000000	No
			Mg	0.000001	0.000000	No
			Ca	-0.000004	0.000000	No
			Na	0.000000	0.000000	No
			Mn	-0.000001	0.000000	No
			Co	-0.000890	0.000000	No
			Cr	0.000568	0.000000	No
			Mo	0.001425	0.000000	No
			Ti	0.000020	0.000000	No
			V	0.000083	0.000000	No
			Al	0.000002	0.000000	No
			Pd	0.030289	0.000000	No
			Zr	0.000110	0.000000	No
			B	-0.000051	0.000000	No
			W	0.001461	0.000000	No
Au 242.795 {139}	☒	3	Fe	0.000181	0.000000	No
			Mn	0.003341	0.000000	No
			W	-0.000213	0.000000	No
B 208.959 {462}	☒	5	Si	0.000676	0.000000	No
			Mo	0.019357	0.000000	No
			Ti	0.000480	0.000000	No
			V	0.001000	0.000000	No
			W	-0.000376	0.000000	No
Ba 455.403 { 74}	☒	1	Ca	0.000010	0.000000	No
Be 313.042 {108}	☒	2	Ti	-0.000311	0.000000	No
			V	0.000176	0.000000	No
Bi 223.061 {451}	☒	7	Fe	0.000031	0.000000	No
			Co	-0.001818	0.000000	No
			Cr	0.001095	0.000000	No
			Ti	-0.000285	0.000000	No
			V	-0.001151	0.000000	No
			Cu	-0.002887	0.000000	No
			W	-0.002446	0.000000	No
			Al	0.000075	0.000000	No
Ca 317.933 {106}	☒	2	Mg	0.000046	0.000000	No
Cd 228.802 {448}	☒	7	Fe	0.000031	0.000000	No
			Mg	0.000002	0.000000	No
			Co	-0.002030	0.000000	No
			Ni	-0.000161	0.000000	No
			Ca	0.000000	0.000000	No
			V	0.000084	0.000000	No
			W	-0.000853	0.000000	No
Co 228.616 {448}	☒	4	Fe	0.000025	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
			Mo	-0.000377	0.000000	No
			Ti	0.001984	0.000000	No
			Mg	0.000002	0.000000	No
Cr 267.716 {126}	☒	5	Cu	0.000181	0.000000	No
			Al	0.000003	0.000000	No
			Fe	-0.000007	0.000000	No
			Mn	0.000241	0.000000	No
			W	0.000467	0.000000	No
Cu 324.754 {104}2	☒	8	Fe	-0.000081	0.000000	No
			Co	-0.000941	0.000000	No
			Mo	-0.000061	0.000000	No
			V	-0.000385	0.000000	No
			Zr	-0.001600	0.000000	No
			Mn	-0.000286	0.000000	No
			Ca	0.000003	0.000000	No
			Ti	-0.000576	0.000000	No
Fe 259.940 {130}	☒	None				
In 230.606 {446}*	☒	None				
K 766.490 { 44}	☒	1	Na	0.000226	0.000000	No
Li 670.784 { 50}	☒	2	Ca	0.000024	0.000000	No
			Na	0.000048	0.000000	No
Mg 279.079 {121}	☒	2	Fe	-0.000180	0.000000	No
			Mo	-0.009670	0.000000	No
Mn 257.610 {131}	☒	3	Fe	-0.000015	0.000000	No
			Ca	0.000003	0.000000	No
			Si	0.000235	0.000000	No
Mo 202.030 {467}	☒	8	Al	-0.000002	0.000000	No
			Mg	-0.000002	0.000000	No
			Ca	0.000001	0.000000	No
			Na	-0.000007	0.000000	No
			Mn	-0.000036	0.000000	No
			Co	0.000002	0.000000	No
			Cu	0.000020	0.000000	No
			Ni	0.000009	0.000000	No
Na 589.592 { 57}	☒	1	Al	0.000506	0.000000	No
Ni 231.604 {446}	☒	5	Co	-0.000195	0.000000	No
			Mo	0.000025	0.000000	No
			Fe	0.000032	0.000000	No
			Al	0.000000	0.000000	No
			Ca	-0.000001	0.000000	No
Pb 220.353 {453}	☒	15	Fe	0.000044	0.000000	No
			Al	-0.000059	0.000000	No
			Si	0.000104	0.000000	No
			Co	0.000040	0.000000	No
			Cu	0.000248	0.000000	No
			Ni	0.000125	0.000000	No
			Mo	-0.000950	0.000000	No
			Mg	-0.000000	0.000000	No
			Ca	-0.000010	0.000000	No
			Mn	0.000126	0.000000	No
			S	-0.000010	0.000000	No
			Na	-0.000001	0.000000	No
			Ti	-0.000349	0.000000	No
			V	-0.000062	0.000000	No
			W	-0.002172	0.000000	No
Pd 340.458 { 99}	☒	4	Fe	-0.000259	0.000000	No
			Ca	0.000016	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
			Co	-0.004770	0.000000	No
			Ti	-0.000574	0.000000	No
Pt 265.945 {127}	☒	7	Fe	-0.000028	0.000000	No
			Al	-0.000018	0.000000	No
			Mn	-0.001394	0.000000	No
			Cr	0.004108	0.000000	No
			Mo	-0.001488	0.000000	No
			V	-0.000710	0.000000	No
			W	-0.000924	0.000000	No
S 182.034 {485}	☒	8	Fe	0.000603	0.000000	No
			Al	-0.000004	0.000000	No
			Mg	-0.000007	0.000000	No
			Ca	-0.000083	0.000000	No
			Mn	0.004670	0.000000	No
			Mo	-0.004370	0.000000	No
			Ti	0.000201	0.000000	No
			W	-0.024551	0.000000	No
Sb 206.833 {463}	☒	13	Fe	0.000022	0.000000	No
			Al	-0.000030	0.000000	No
			Mg	0.000002	0.000000	No
			Ca	0.000000	0.000000	No
			Cr	0.006637	0.000000	No
			Ni	-0.000328	0.000000	No
			Mo	-0.002516	0.000000	No
			Cu	0.000038	0.000000	No
			Sn	-0.005930	0.000000	No
			Zr	-0.000420	0.000000	No
			Ti	0.000122	0.000000	No
			V	-0.001332	0.000000	No
			W	-0.000497	0.000000	No
Se 196.090 {472}	☒	14	Fe	-0.000394	0.000000	No
			Al	-0.000002	0.000000	No
			Mg	-0.000004	0.000000	No
			Ca	-0.000005	0.000000	No
			Na	0.000001	0.000000	No
			Co	-0.000863	0.000000	No
			Ni	-0.000130	0.000000	No
			Mn	0.000508	0.000000	No
			Sn	0.000400	0.000000	No
			Pd	-0.000886	0.000000	No
			V	0.000019	0.000000	No
			Mo	0.000007	0.000000	No
			Ti	0.000034	0.000000	No
			W	0.008850	0.000000	No
Si 212.412 {459}	☒	4	Al	0.000049	0.000000	No
			Mo	0.024726	0.000000	No
			Ti	0.008351	0.000000	No
			V	0.028014	0.000000	No
Sn 189.989 {478}	☒	1	Ti	-0.002079	0.000000	No
Sr 407.771 {83}	☒	None				
Ti 334.904 {101}	☒	3	Mo	0.000248	0.000000	No
			Ca	0.000004	0.000000	No
			Al	0.000006	0.000000	No
Tl 190.856 {477}	☒	11	Al	-0.000003	0.000000	No
			Mg	-0.000001	0.000000	No
			Ca	-0.000000	0.000000	No
			Na	-0.000003	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
			Mn	0.000717	0.000000	No
			Co	0.001377	0.000000	No
			Cr	0.000194	0.000000	No
			Ti	-0.002528	0.000000	No
			V	-0.035545	0.000000	No
			Fe	0.000007	0.000000	No
V 292.402 {115}	☒	5	Mo	-0.000048	0.000000	No
			Fe	0.000025	0.000000	No
			Mn	-0.000122	0.000000	No
			Cr	-0.002121	0.000000	No
			Mo	-0.006365	0.000000	No
			Ti	0.000672	0.000000	No
W 207.911 {462}	☒	6	Co	-0.000470	0.000000	No
			Cr	-0.000390	0.000000	No
			Cu	-0.000430	0.000000	No
			Ni	-0.000440	0.000000	No
			Ti	-0.000410	0.000000	No
			V	-0.000520	0.000000	No
Y 224.306 {451}* Y 360.073 { 94}* Y 371.030 { 91}* Zn 206.200 {464}	☒ ☒ ☒ ☒	None None None 7				
			Mg	0.000002	0.000000	No
			Al	0.000003	0.000000	No
			Ca	0.000002	0.000000	No
			Na	0.000004	0.000000	No
			Cr	-0.000410	0.000000	No
			Ti	0.000095	0.000000	No
			Fe	-0.000000	0.000000	No
Zr 339.198 { 99}	☒	5	Fe	-0.000043	0.000000	No
			Ti	0.002216	0.000000	No
			V	0.003207	0.000000	No
			Mo	0.000594	0.000000	No
			S	-0.000027	0.000000	No



Date: 07/28/14
Time: 9:30

Name:	KERRYR		
MP Batch ID:	MP23411		
QC Sample ID:	MC32361-3		
Reagent Lot #			
1:1 HNO3			
1:1 HCL	RGT-41150-METALS		
Conc HNO3	VENDOR-14776		
H2O2			
LCS			
Filter Paper Lot #			
Digestion Tube Lot #	1312222		
Dig Block ID:	4	Therm ID	GN017
Dig Block ID:		Therm ID	
Balance ID:	N/A	Repipetor ID	1

Aqueous EPA 200.7/ 200.8	☐	WW
Aqueous SW846 3010A	☒	
Soil SW846 3050B	☐	

ML Used	Spike Lot#	
0.5	METSTK-1158-METALS	
Spike ID	MPICP	
Temp. C	96	Factor -1
Temp. C		Factor
		Corrected Temp C
		95

Note: (A) Serial dilution shown for QC purposes only (not a separate digestion). (B) For DW samples <1NTU, measure pH prior to analysis.

Bot#	Sample #	Initial ML	Final (ML)			1:1 HNO3 (ML)	Conc. HNO3 (ML)	1:1 HCL (ML)	H2O2 (ML)	Comment
	MP23411-MB1	50	50				3	5		
	MP23411-B1	50	50				3	5		
1	MP23411-S1	50	50				3	5		
1	MP23411-SD1	50	50				3	5		
	MP23411-MB2	50	50				3	5		FB @ 07/24/14
	MP23411-B2	50	50				3	5		
1	MP23411-S2	50	50				3	5		
4	MC32347-1F	50	50				3	5		
10	MC32348-10F	50	50				3	5		
6	MC32348-11F	50	50				3	5		
4	MC32348-1F	50	50				3	5		
6	MC32348-5F	50	50				3	5		
6	MC32348-6F	50	50				3	5		
4	MC32348-7F	50	50				3	5		
6	MC32348-8F	50	50				3	5		
6	MC32348-9F	50	50				3	5		
4	MC32349-2F	50	50				3	5		
4	MC32350-1F	50	50				3	5		
1	MC32361-3	50	50				3	5		
1	MC32373-1	50	50				3	5		
1	MC32373-5	50	50				3	5		
2	MC32373-8	50	50				3	5		
1	MC32376-1	50	50				3	5		
1	MC32376-4	50	50				3	5		

Protected Worksheet

MMP003-02

QC Review EAL

Date: 07/31/14

(Format edits must be done by Dept. Manager)

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries
- Instrument Runlogs/QC

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: MC32373
Account: WSPVAR - WSP Environmental & Energy
Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Cyanide	GP17954/GN47811	0.010	0.0	mg/l	0.1	0.0987	98.7	90-110%
Cyanide	GP17954/GN47811			mg/l	0.2	0.193	96.5	90-110%

Associated Samples:
Batch GP17954: MC32373-6, MC32373-7, MC32373-8
(*) Outside of QC limits

10.1
10

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: MC32373
Account: WSPVAR - WSP Environmental & Energy
Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Cyanide	GP17954/GN47811	MC32373-6	mg/l	0.31	0.31	0.0	0-20%

Associated Samples:

Batch GP17954: MC32373-6, MC32373-7, MC32373-8
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: MC32373
Account: WSPVAR - WSP Environmental & Energy
Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Cyanide	GP17954/GN47811	MC32373-6	mg/l	0.31	0.1	0.41	100.0	75-125%

Associated Samples:

Batch GP17954: MC32373-6, MC32373-7, MC32373-8

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: MC32373

Account: WSPVAR - WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: 073114W1.CN

Date Analyzed: 07/31/14

Methods: SW846 9012

Analyst: MA

Run ID: GN47811

Parameters: Cyanide

Time	Sample Description	Dilution Factor	PS Recov	Comments
11:28	GN47811-STD1	1		STDA0.50
11:29	GN47811-STD2	1		STDB0.30
11:30	GN47811-STD3	1		STDC0.20
11:31	GN47811-STD4	1		STDD0.10
11:32	GN47811-STD5	1		STDE0.030
11:33	GN47811-STD6	1		STDF0.010
11:34	GN47811-STD7	1		STDG0.00
11:37	GN47811-ICV1	1		
11:38	GN47811-ICB1	1		
11:39	GN47811-CCV1	1		
11:40	GN47811-CCB1	1		
11:41	GP17954-MB1	1		
11:42	GP17954-B1	1		
11:43	GP17954-B2	1		
11:44	GP17954-S1	1		
11:45	GP17954-D1	1		
11:47	MC32373-6	1		
11:48	ZZZZZ	1		DNR, offscale
11:49	MC32373-8	1		
11:50	ZZZZZ	1		DNR, offscale
11:51	GN47811-CCV2	1		
11:52	GN47811-CCB2	1		
11:56	GN47811-CCV3	1		
11:57	GN47811-CCB3	1		
11:58	MC32373-7	2		
11:59	ZZZZZ	5		
12:00	GN47811-CCV4	1		
12:01	GN47811-CCB4	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: MC32373

Account: WSPVAR - WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: 073114W1.CN

Date Analyzed: 07/31/14

Methods: SW846 9012

Run ID: GN47811

Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN47811-ICV1	Cyanide	0.20	0.010	0.0014	.2	100.0	90-110
GN47811-ICB1	Cyanide	-0.0041	0.010	0.0014			
GN47811-CCV1	Cyanide	0.30	0.010	0.0014	.3	100.0	90-110
GN47811-CCB1	Cyanide	-0.0056	0.010	0.0014			
GN47811-CCV2	Cyanide	0.30	0.010	0.0014	.3	100.0	90-110
GN47811-CCB2	Cyanide	-0.0041	0.010	0.0014			
GN47811-CCV3	Cyanide	0.29	0.010	0.0014	.3	96.7	90-110
GN47811-CCB3	Cyanide	-0.0043	0.010	0.0014			
GN47811-CCV4	Cyanide	0.29	0.010	0.0014	.3	96.7	90-110
GN47811-CCB4	Cyanide	-0.0041	0.010	0.0014			

(!) Outside of QC limits

10.4
10

General Chemistry

Raw Data

Analyst	MEH/DIA	Test/Analysis	CN	SW846 9012
Date	7/31/14	Analysis Batch ID	GN47811	
Instrument ID	LACHAT	Prep Batch ID	GP17954	
File ID	073114W1.CN,073114W2.CN			

Reagents					
Calib STD	GNSTD-	34675-CN	Buffer	RGT-	41719-CN
ICV	GNSTD-	34669-CN-2	Carrier	RGT-	41375-CN
CCV	GNSTD-	34675-CN-4	Chloramine-T	RGT-	41898-CN
			Pyridine Barb. Acid	RGT-	41720-CN

[illegible]

QC Review

Date:

Date: 7/31/14



Distillation

Protected Worksheet

MGN127-01

(Format edits must be done by Dept. manager)

Analyst: MEHDIA		Date: 7/31/14		Batch ID: GP17954		Matrix: Aqueous															
QC Sample: MC32373-6		Balance ID: N/A		pH Meter ID: N/A		Block ID: MICRO															
Analysis Type																					
CN EPA 335.4 ☐		CN SW846 9010B ☒		CN-A SM21 4500CN-G/335.4 ☐		CN-A SW846 9010 ☐															
PAC MADEP ☐		CREAC Chap 7 ☐		SREAC Chap7 ☐		CNWAD SM20 4500CN-I ☐															
Sample ID	Bot #	ID	Interfere Chk		Init. pH	SMPL Amt ML	DIST Vol ML	Start Time	End Time	Comments/Spike											
			CL	S																	
GP17954-MB1		N/A	ND	ND	>12	6	6	9:13	9:43												
GP17954-B1		N/A	ND	ND	>12	6	6	9:13	9:43	0.10 ML OF SPIKE											
GP17954-S1	1	N/A	ND	ND	>12	6	6	9:13	9:43	0.10 ML OF SPIKE											
GP17954-D1	1	N/A	ND	ND	>12	6	6	9:13	9:43												
GP17954-B2		N/A	ND	ND	>12	6	6	9:13	9:43	0.20 ML OF SPIKE											
MC32373-6	1	N/A	ND	ND	>12	6	6	9:13	9:43												
MC32373-7	1	N/A	ND	ND	>12	6	6	9:13	9:43												
MC32373-8	1	N/A	ND	ND	>12	6	6	9:13	9:43												
MC32460-1	1	N/A	ND	ND	>12	6	6	9:13	9:43												
ICV		N/A	ND	ND	>12	6	6	9:13	9:43	0.20 ML OF ICV SPIKE											
Reagent Lot # (Refer to Individual SOP for amounts added)																					
Sulfamic Acid		VENDOR-8715				Spike Solution		GNSTD-34668-CN-2													
Conc. H2SO4		VENDOR-14810				ICV Stock Solution		GNSTD-34669-CN-2													
NaOH		RGT-41236-CN				0.25N NAOH		RGT-41375-CN													
MgCl2.6H2O		RGT-41169-CN				N/A															
Bismuth Nitrate		N/A				N/A															
Comment:																					

QC Review

Date

Author: chemistry

Date : 7/31/2014

Original Run Filename: OM_7-31-2014_11-27-18AM.OMN Created: 7/31/2014 11:27:18 AM
 Original Run Author's Signature: [chemistry]
 Current Run Filename: OM_7-31-2014_11-27-18AM.OMN Last Modified: 7/31/2014 11:54:11 AM
 Current Run Author's Signature: [chemistry]
 Description: Default New Run

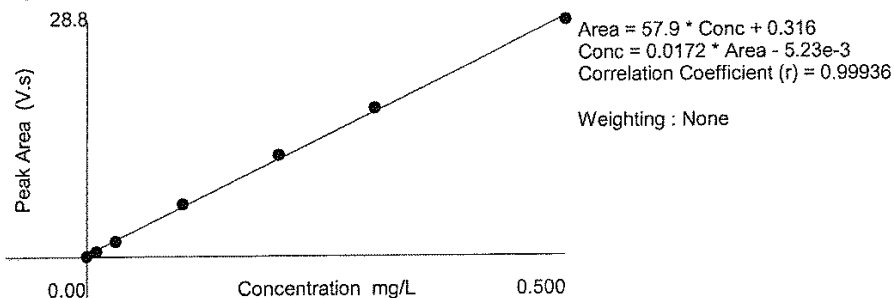
Sample	Rep.	Channel 1 Cn (mg/L)	MDF
StdA0.50	1	0.500	
StdB0.30	1	0.300	
StdC0.20	1	0.200	
StdD0.10	1	0.100	
StdE0.030	1	0.0300	
StdF0.010	1	0.0100	
StdG0.00	1	0.00	
ICV	1	0.204	
Calibration: Table/Fig. : 1			
ICB	1	-4.10e-3	
CCV	1	0.302	
CCB	1	-5.62e-3	
GP17954-MB1	1	-3.34e-3	
GP17954-B1	1	0.0987	
GP17954-B2	1	0.193	
GP17954-S1	1	0.405	
GP17954-D1	1	0.308	
MC32373-6	1	0.306	
MC32373-7	1	0.567	
MC32373-8	1	-2.48e-3	
MC32460-1	1	0.935	
CCV	1	0.295	
CCB	1	-4.10e-3	

DNR offscale
 DNR offscale

Table : 1 (Cn)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	0.500	1	28.8	1.48	0.0	1.6	0.491	7/31/2014	11:28:13 AM
2	0.300	1	18.1	0.937	0.0	-2.4	0.307	7/31/2014	11:29:18 AM
3	0.200	1	12.4	0.644	0.0	-4.0	0.208	7/31/2014	11:30:22 AM
4	0.100	1	6.40	0.334	0.0	-4.8	0.105	7/31/2014	11:31:27 AM
5	0.0300	1	1.87	0.0968	0.0	9.0	0.0270	7/31/2014	11:32:31 AM
6	0.0100	1	0.619	0.0331	0.0	30.9	5.43e-3	7/31/2014	11:33:35 AM
7	0.00	1	0.0735	3.58e-3			-3.96e-3	7/31/2014	11:34:40 AM

Figure : 1 (Cn)



7.31.14

Author: chemistry

Date : 7/31/2014

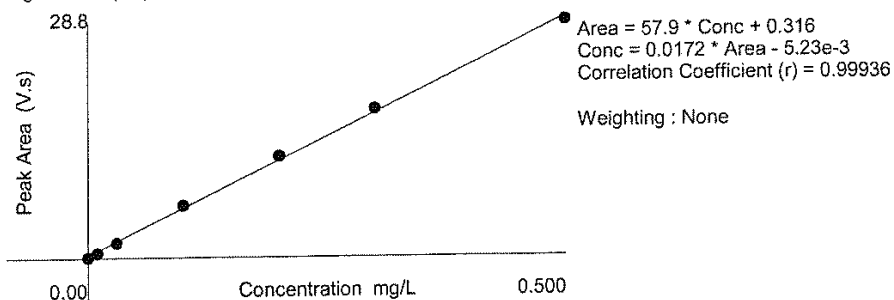
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 Original Run Author's Signature: [chemistry]
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 Current Run Author's Signature: [chemistry]
 Description: Default New Run

Sample	Rep.	Channel 1 Cn (mg/L)	MDF
CCV	1	0.293	
CCB	1	-4.26e-3	
Calibration:		Table/Fig. : 1	
MC32373-7	1	0.292	2.00
MC32460-1	1	0.200	5.00
CCV	1	0.291	
CCB	1	-4.08e-3	

Table : 1 (Cn)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	0.500	1	28.8	1.48	0.0	1.6	0.491	7/31/2014	11:28:13 AM
2	0.300	1	18.1	0.937	0.0	-2.4	0.307	7/31/2014	11:29:18 AM
3	0.200	1	12.4	0.644	0.0	-4.0	0.208	7/31/2014	11:30:22 AM
4	0.100	1	6.40	0.334	0.0	-4.8	0.105	7/31/2014	11:31:27 AM
5	0.0300	1	1.87	0.0968	0.0	9.0	0.0270	7/31/2014	11:32:31 AM
6	0.0100	1	0.619	0.0331	0.0	30.9	5.43e-3	7/31/2014	11:33:35 AM
7	0.00	1	0.0735	3.58e-3			-3.96e-3	7/31/2014	11:34:40 AM

Figure : 1 (Cn)

11.1
11

J 7/31/14



08/06/14

Technical Report for

WSP Environmental & Energy

Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY
4255-6

Accutest Job Number: MC32460

Sampling Dates: 07/28/14 - 07/29/14

Report to:

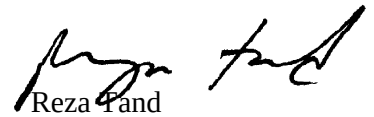
WSP Environmental & Energy
11190 Sunrise Valley Dr
Reston, VA 20191
Lisa.bryda@wspgroup.com

ATTN: Lisa Bryda

Total number of pages in report: **289**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.


Reza Fand
Lab Director

Client Service contact: Frank DAgostino 508-481-6200

Certifications: MA (M-MA136, SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

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Test results relate only to samples analyzed.

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Sample Summary

WSP Environmental & Energy

Job No: MC32460

Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY
Project No: 4255-6

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
MC32460-1	07/28/14	14:30 MA	07/30/14	AQ	Ground Water	LBA-MW-19
MC32460-2	07/29/14	09:20 MA	07/30/14	AQ	Ground Water	LBA-BLDG24-SEEP
MC32460-3	07/29/14	10:30 MA	07/30/14	AQ	Ground Water	LBA-MW-49
MC32460-4	07/29/14	14:00 MA	07/30/14	AQ	Ground Water	LBA-MW-39
MC32460-4D	07/29/14	14:00 MA	07/30/14	AQ	Water Dup/MSD	LBA-MW-39
MC32460-4S	07/29/14	14:00 MA	07/30/14	AQ	Water Matrix Spike	LBA-MW-39

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: WSP Environmental & Energy

Job No MC32460

Site: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca,

Report Date 8/6/2014 5:28:55 PM

4 Sample(s) were collected on between 07/28/2014 and 07/29/2014 and were received at Accutest on 07/30/2014 properly preserved, at 0.4 Deg. C and intact. These Samples received an Accutest job number of MC32460. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260C

Matrix AQ

Batch ID: MSU957

- All samples were analyzed within the recommended method holding time.
- Sample(s) MC32460-4MS, MC32460-4MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- MC32460-4MS/MSD Recovery(s) for 1,1-Dichloroethane are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- MC32460-4MS/MSD Recovery(s) for 1,1,1-Trichloroethane, 2-Butanone (MEK), 2-Hexanone, Acetone are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.

Matrix AQ

Batch ID: MSV1230

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC32460-2MS, MC32460-2MSD were used as the QC samples indicated.
- MSV1230-BS Recovery(s) for 1,1,1-Trichloroethane, Bromodichloromethane, Carbon disulfide, Methyl Acetate are outside control limits. Blank Spike meets program technical requirements.
- MSV1230-BSD Recovery(s) for 4-Methyl-2-pentanone (MIBK), Bromodichloromethane, Carbon disulfide, Methyl Acetate are outside control limits. Blank Spike meets program technical requirements.
- Matrix Spike Recovery(s) for 1,1-Dichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, Acetone, Carbon tetrachloride, Chloroethane, Chloroform, Methylcyclohexane, Trichlorofluoromethane are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- Matrix Spike Duplicate Recovery(s) for 1,1-Dichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, Acetone, Carbon tetrachloride, Chloroethane are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- MC32460-2M/MSD for 1,1,1-Trichloroethane, 4-Methyl-2-pentanone (MIBK), Bromodichloromethane, Carbon disulfide, Methyl Acetate: Outside control limits. Blank Spike meets program technical requirements.
- Initial calibration verification MSV1226-ICV1226 for carbon disulfide exceeds 30% Difference (response bias high). Associated samples are non-detect for this compound.

Wet Chemistry By Method SW846 9012

Matrix AQ

Batch ID: GP17954

- All samples were distilled within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC32373-6DUP, MC32373-6MS were used as the QC samples for Cyanide.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report (MC32460).

Summary of Hits

Page 1 of 1

Job Number: MC32460

Account: WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Collected: 07/28/14 thru 07/29/14

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC32460-1 LBA-MW-19						
Cyanide		1.0	0.050		mg/l	SW846 9012
MC32460-2 LBA-BLDG24-SEEP						
cis-1,2-Dichloroethene		4.2	1.0	0.84	ug/l	SW846 8260C
Trichloroethene		35.8	1.0	0.47	ug/l	SW846 8260C
MC32460-3 LBA-MW-49						
Chloroethane		5.5	2.0	0.53	ug/l	SW846 8260C
1,1-Dichloroethane		143	1.0	0.36	ug/l	SW846 8260C
1,1-Dichloroethene		10	1.0	0.61	ug/l	SW846 8260C
cis-1,2-Dichloroethene		2.9	1.0	0.84	ug/l	SW846 8260C
1,1,1-Trichloroethane		99.3	1.0	0.46	ug/l	SW846 8260C
Trichloroethene		0.92 J	1.0	0.47	ug/l	SW846 8260C
MC32460-4 LBA-MW-39						
Chloroethane		4.2	2.0	0.53	ug/l	SW846 8260C
1,2-Dichlorobenzene		0.54 J	1.0	0.32	ug/l	SW846 8260C
1,1-Dichloroethane		117	1.0	0.36	ug/l	SW846 8260C
1,1-Dichloroethene		8.5	1.0	0.61	ug/l	SW846 8260C
cis-1,2-Dichloroethene		3.3	1.0	0.84	ug/l	SW846 8260C
1,1,1-Trichloroethane		87.0	1.0	0.46	ug/l	SW846 8260C
Trichloroethene		0.90 J	1.0	0.47	ug/l	SW846 8260C

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	LBA-MW-19	Date Sampled:	07/28/14
Lab Sample ID:	MC32460-1	Date Received:	07/30/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	1.0	0.050	mg/l	5	07/31/14 11:59	MA	SW846 9012

RL = Reporting Limit

4.1
4

Accutest Laboratories

Report of Analysis

Page 1 of 2

Client Sample ID:	LBA-BLDG24-SEEP	Date Sampled:	07/29/14
Lab Sample ID:	MC32460-2	Date Received:	07/30/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V33581.D	1	08/06/14	AMY	n/a	n/a	MSV1230
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.9	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.87	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	4.2	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: LBA-BLDG24-SEEP**Lab Sample ID:** MC32460-2**Date Sampled:** 07/29/14**Matrix:** AQ - Ground Water**Date Received:** 07/30/14**Method:** SW846 8260C**Percent Solids:** n/a**Project:** Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

VOA TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	35.8	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		70-130%
2037-26-5	Toluene-D8	102%		70-130%
460-00-4	4-Bromofluorobenzene	112%		70-130%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Page 1 of 2

Client Sample ID:	LBA-MW-49	Date Sampled:	07/29/14
Lab Sample ID:	MC32460-3	Date Received:	07/30/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V33582.D	1	08/06/14	AMY	n/a	n/a	MSV1230
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	5.5	2.0	0.53	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.9	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.87	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	143	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	10	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	2.9	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	LBA-MW-49	Date Sampled:	07/29/14
Lab Sample ID:	MC32460-3	Date Received:	07/30/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY		

VOA TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	99.3	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	0.92	1.0	0.47	ug/l	J
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%		70-130%
2037-26-5	Toluene-D8	102%		70-130%
460-00-4	4-Bromofluorobenzene	113%		70-130%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

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Client Sample ID:	LBA-MW-39	Date Sampled:	07/29/14
Lab Sample ID:	MC32460-4	Date Received:	07/30/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U21540.D	1	08/04/14	AMY	n/a	n/a	MSU957
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	4.2	2.0	0.53	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.9	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.87	ug/l	
95-50-1	1,2-Dichlorobenzene	0.54	1.0	0.32	ug/l	J
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	117	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	8.5	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	3.3	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	LBA-MW-39	Date Sampled:	07/29/14
Lab Sample ID:	MC32460-4	Date Received:	07/30/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY		

VOA TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	87.0	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	0.90	1.0	0.47	ug/l	J
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	114%		70-130%
2037-26-5	Toluene-D8	114%		70-130%
460-00-4	4-Bromofluorobenzene	111%		70-130%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Misc. Forms

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Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

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ACCUTEST®
MC32460 LABORATORIES

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC32460 **Client:** WSP **Immediate Client Services Action Required:** No
Date / Time Received: 7/30/2014 **Delivery Method:** **Client Service Action Required at Login:** No
Project: 4255/6 EPT ITHACA **No. Coolers:** 1 **Airbill #'s:**

Cooler Security **Y or N** **Y or N**
1. Custody Seals Present: ☒ ☐ 3. COC Present: ☒ ☐
2. Custody Seals Intact: ☒ ☐ 4. Smpl Dates/Time OK ☒ ☐

Cooler Temperature **Y or N**
1. Temp criteria achieved: ☒ ☐
2. Cooler temp verification: Infrared gun
3. Cooler media: Ice (bag)

Quality Control Preservation **Y or N** **N/A**
1. Trip Blank present / cooler: ☐ ☒ ☐
2. Trip Blank listed on COC: ☐ ☒ ☐
3. Samples preserved properly: ☒ ☐
4. VOCs headspace free: ☒ ☐ ☐

Sample Integrity - Documentation **Y or N**
1. Sample labels present on bottles: ☒ ☐
2. Container labeling complete: ☒ ☐
3. Sample container label / COC agree: ☒ ☐

Sample Integrity - Condition **Y or N**
1. Sample recvd within HT: ☒ ☐
2. All containers accounted for: ☒ ☐
3. Condition of sample: Intact

Sample Integrity - Instructions **Y or N** **N/A**
1. Analysis requested is clear: ☒ ☐
2. Bottles received for unspecified tests: ☐ ☒
3. Sufficient volume recvd for analysis: ☒ ☐
4. Compositing instructions clear: ☐ ☐ ☒
5. Filtering instructions clear: ☐ ☐ ☒

Comments

Internal Sample Tracking Chronicle

WSP Environmental & Energy

Job No: MC32460

Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY
Project No: 4255-6

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC32460-1 Collected: 28-JUL-14 14:30 By: MA Received: 30-JUL-14 By: LBA-MW-19						
MC32460-1	SW846 9012	31-JUL-14 11:59	MA	31-JUL-14	MA	CN
MC32460-2 Collected: 29-JUL-14 09:20 By: MA Received: 30-JUL-14 By: LBA-BLDG24-SEEP						
MC32460-2	SW846 8260C	06-AUG-14 13:28	AMY			V8260TCL42
MC32460-3 Collected: 29-JUL-14 10:30 By: MA Received: 30-JUL-14 By: LBA-MW-49						
MC32460-3	SW846 8260C	06-AUG-14 13:54	AMY			V8260TCL42
MC32460-4 Collected: 29-JUL-14 14:00 By: MA Received: 30-JUL-14 By: LBA-MW-39						
MC32460-4	SW846 8260C	04-AUG-14 14:53	AMY			V8260TCL42

Accutest Internal Chain of Custody

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Job Number: MC32460
Account: WSPVAR WSP Environmental & Energy
Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY
Received: 07/30/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC32460-1.1	Walk In Ref #9	Mehdi Abdolrahim	07/31/14 08:37	Retrieve from Storage
MC32460-1.1	Mehdi Abdolrahim	Walk In Ref #9	07/31/14 09:35	Return to Storage
MC32460-2.1	VOC Ref #5	Gary Krasinski	08/04/14 13:10	Retrieve from Storage
MC32460-2.1	Gary Krasinski	GCMSU	08/04/14 13:10	Load on Instrument
MC32460-2.1	GCMSU	Gary Krasinski	08/04/14 16:28	Unload from Instrument
MC32460-2.1	Gary Krasinski	VOC Ref #5	08/04/14 16:28	Return to Storage
MC32460-2.2	VOC Ref #1	Amy Min Yang	08/05/14 16:45	Retrieve from Storage
MC32460-2.2	Amy Min Yang	GCMSV	08/05/14 16:46	Load on Instrument
MC32460-2.2	GCMSV	Amy Min Yang	08/06/14 10:16	Unload from Instrument
MC32460-2.2	Amy Min Yang	VOC Ref #1	08/06/14 10:17	Return to Storage
MC32460-3.1	VOC Ref #1	Amy Min Yang	08/05/14 16:45	Retrieve from Storage
MC32460-3.1	Amy Min Yang	GCMSV	08/05/14 16:46	Load on Instrument
MC32460-3.1	GCMSV	Amy Min Yang	08/06/14 10:16	Unload from Instrument
MC32460-3.1	Amy Min Yang	VOC Ref #1	08/06/14 10:17	Return to Storage
MC32460-3.2	VOC Ref #5	Gary Krasinski	08/04/14 13:10	Retrieve from Storage
MC32460-3.2	Gary Krasinski	GCMSU	08/04/14 13:10	Load on Instrument
MC32460-3.2	GCMSU	Gary Krasinski	08/04/14 16:28	Unload from Instrument
MC32460-3.2	Gary Krasinski	VOC Ref #5	08/04/14 16:28	Return to Storage
MC32460-4.1	VOC Ref #5	Gary Krasinski	08/04/14 13:10	Retrieve from Storage
MC32460-4.1	Gary Krasinski	GCMSU	08/04/14 13:10	Load on Instrument
MC32460-4.1	GCMSU	Gary Krasinski	08/05/14 08:59	Unload from Instrument
MC32460-4.1	Gary Krasinski	VOC Ref #5	08/05/14 09:00	Return to Storage
MC32460-4.2	VOC Ref #5	Gary Krasinski	08/04/14 13:10	Retrieve from Storage
MC32460-4.2	Gary Krasinski	GCMSU	08/04/14 13:10	Load on Instrument
MC32460-4.2	GCMSU	Gary Krasinski	08/05/14 08:59	Unload from Instrument
MC32460-4.2	Gary Krasinski	VOC Ref #5	08/05/14 09:00	Return to Storage
MC32460-4.4	VOC Ref #5	Gary Krasinski	08/04/14 13:10	Retrieve from Storage
MC32460-4.4	Gary Krasinski	GCMSU	08/04/14 13:10	Load on Instrument
MC32460-4.4	GCMSU	Gary Krasinski	08/05/14 08:59	Unload from Instrument
MC32460-4.4	Gary Krasinski	VOC Ref #5	08/05/14 09:00	Return to Storage
MC32460-4.6	VOC Ref #5	Gary Krasinski	08/04/14 13:10	Retrieve from Storage
MC32460-4.6	Gary Krasinski	GCMSU	08/04/14 13:10	Load on Instrument
MC32460-4.6	GCMSU	Gary Krasinski	08/05/14 08:59	Unload from Instrument
MC32460-4.6	Gary Krasinski	VOC Ref #5	08/05/14 09:00	Return to Storage

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Page 1 of 2

Job Number: MC32460

Account: WSPVAR WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSU957-MB	U21532.D	1	08/04/14	AMY	n/a	n/a	MSU957

The QC reported here applies to the following samples:

Method: SW846 8260C

MC32460-4

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.9	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.87	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	

6.1.1

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Method Blank Summary

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Job Number: MC32460

Account: WSPVAR WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSU957-MB	U21532.D	1	08/04/14	AMY	n/a	n/a	MSU957

The QC reported here applies to the following samples:

Method: SW846 8260C

MC32460-4

CAS No.	Compound	Result	RL	MDL	Units	Q
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	116% 70-130%
2037-26-5	Toluene-D8	108% 70-130%
460-00-4	4-Bromofluorobenzene	109% 70-130%

Method Blank Summary

Page 1 of 2

Job Number: MC32460**Account:** WSPVAR WSP Environmental & Energy**Project:** Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1230-MB	V33575.D	1	08/06/14	AMY	n/a	n/a	MSV1230

The QC reported here applies to the following samples:**Method:** SW846 8260C

MC32460-2, MC32460-3

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.9	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.87	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	

6.1.2

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Method Blank Summary

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Job Number: MC32460

Account: WSPVAR WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1230-MB	V33575.D	1	08/06/14	AMY	n/a	n/a	MSV1230

The QC reported here applies to the following samples:

Method: SW846 8260C

MC32460-2, MC32460-3

CAS No.	Compound	Result	RL	MDL	Units	Q
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	106% 70-130%
2037-26-5	Toluene-D8	104% 70-130%
460-00-4	4-Bromofluorobenzene	112% 70-130%

Blank Spike/Blank Spike Duplicate Summary

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Job Number: MC32460

Account: WSPVAR WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSU957-BS	U21529.D	1	08/04/14	AMY	n/a	n/a	MSU957
MSU957-BSD	U21530.D	1	08/04/14	AMY	n/a	n/a	MSU957

The QC reported here applies to the following samples:

Method: SW846 8260C

MC32460-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	50	48.1	96	52.6	105	9	70-130/25
71-43-2	Benzene	50	47.1	94	48.6	97	3	70-130/25
75-27-4	Bromodichloromethane	50	52.0	104	53.3	107	2	70-130/25
75-25-2	Bromoform	50	50.5	101	49.9	100	1	70-130/25
74-83-9	Bromomethane	50	49.1	98	50.4	101	3	70-130/25
78-93-3	2-Butanone (MEK)	50	48.7	97	51.9	104	6	70-130/25
75-15-0	Carbon disulfide	50	50.0	100	52.5	105	5	70-130/25
56-23-5	Carbon tetrachloride	50	47.7	95	50.4	101	6	70-130/25
108-90-7	Chlorobenzene	50	50.3	101	49.8	100	1	70-130/25
75-00-3	Chloroethane	50	56.2	112	57.9	116	3	70-130/25
67-66-3	Chloroform	50	46.8	94	48.1	96	3	70-130/25
74-87-3	Chloromethane	50	48.3	97	49.8	100	3	70-130/25
110-82-7	Cyclohexane	50	51.2	102	54.1	108	6	71-145/25
96-12-8	1,2-Dibromo-3-chloropropane	50	50.4	101	49.2	98	2	70-130/25
124-48-1	Dibromochloromethane	50	53.1	106	50.5	101	5	70-130/25
106-93-4	1,2-Dibromoethane	50	51.2	102	49.8	100	3	70-130/25
95-50-1	1,2-Dichlorobenzene	50	52.7	105	53.2	106	1	70-130/25
541-73-1	1,3-Dichlorobenzene	50	51.8	104	52.4	105	1	70-130/25
106-46-7	1,4-Dichlorobenzene	50	51.1	102	51.7	103	1	70-130/25
75-71-8	Dichlorodifluoromethane	50	42.7	85	44.3	89	4	70-130/25
75-34-3	1,1-Dichloroethane	50	48.4	97	50.3	101	4	70-130/25
107-06-2	1,2-Dichloroethane	50	48.7	97	49.8	100	2	70-130/25
75-35-4	1,1-Dichloroethene	50	47.9	96	50.1	100	4	70-130/25
156-59-2	cis-1,2-Dichloroethene	50	45.1	90	46.7	93	3	70-130/25
156-60-5	trans-1,2-Dichloroethene	50	45.9	92	47.7	95	4	70-130/25
78-87-5	1,2-Dichloropropane	50	49.6	99	50.9	102	3	70-130/25
10061-01-5	cis-1,3-Dichloropropene	50	53.3	107	53.8	108	1	70-130/25
10061-02-6	trans-1,3-Dichloropropene	50	58.3	117	60.4	121	4	70-130/25
100-41-4	Ethylbenzene	50	49.7	99	49.3	99	1	70-130/25
76-13-1	Freon 113	50	50.4	101	52.0	104	3	70-130/25
591-78-6	2-Hexanone	50	47.0	94	47.5	95	1	70-130/25
98-82-8	Isopropylbenzene	50	54.7	109	55.2	110	1	70-130/25
79-20-9	Methyl Acetate	50	59.5	119	60.5	121	2	40-137/25
108-87-2	Methylcyclohexane	50	51.3	103	54.1	108	5	74-143/25
1634-04-4	Methyl Tert Butyl Ether	50	48.3	97	49.8	100	3	70-130/25
108-10-1	4-Methyl-2-pentanone (MIBK)	50	49.0	98	52.4	105	7	70-130/25

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

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Job Number: MC32460**Account:** WSPVAR WSP Environmental & Energy**Project:** Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSU957-BS	U21529.D	1	08/04/14	AMY	n/a	n/a	MSU957
MSU957-BSD	U21530.D	1	08/04/14	AMY	n/a	n/a	MSU957

The QC reported here applies to the following samples:**Method:** SW846 8260C

MC32460-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
75-09-2	Methylene chloride	50	46.9	94	47.9	96	2	70-130/25
100-42-5	Styrene	50	49.6	99	49.2	98	1	70-130/25
79-34-5	1,1,2,2-Tetrachloroethane	50	52.0	104	52.9	106	2	70-130/25
127-18-4	Tetrachloroethene	50	51.9	104	50.0	100	4	70-130/25
108-88-3	Toluene	50	49.5	99	51.2	102	3	70-130/25
120-82-1	1,2,4-Trichlorobenzene	50	53.6	107	54.3	109	1	70-130/25
71-55-6	1,1,1-Trichloroethane	50	47.7	95	50.3	101	5	70-130/25
79-00-5	1,1,2-Trichloroethane	50	51.8	104	53.2	106	3	70-130/25
79-01-6	Trichloroethene	50	46.3	93	48.1	96	4	70-130/25
75-69-4	Trichlorofluoromethane	50	41.7	83	43.0	86	3	70-130/25
75-01-4	Vinyl chloride	50	44.4	89	46.3	93	4	70-130/25
1330-20-7	Xylene (total)	150	147	98	145	97	1	70-130/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	111%	110%	70-130%
2037-26-5	Toluene-D8	116%	116%	70-130%
460-00-4	4-Bromofluorobenzene	113%	115%	70-130%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

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Job Number: MC32460

Account: WSPVAR WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1230-BS	V33572.D	1	08/06/14	AMY	n/a	n/a	MSV1230
MSV1230-BSD	V33573.D	1	08/06/14	AMY	n/a	n/a	MSV1230

The QC reported here applies to the following samples:

Method: SW846 8260C

MC32460-2, MC32460-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	50	38.8	78	37.9	76	2	70-130/25
71-43-2	Benzene	50	56.2	112	54.3	109	3	70-130/25
75-27-4	Bromodichloromethane	50	71.5	143* a	69.8	140* a	2	70-130/25
75-25-2	Bromoform	50	53.9	108	55.9	112	4	70-130/25
74-83-9	Bromomethane	50	49.3	99	48.2	96	2	70-130/25
78-93-3	2-Butanone (MEK)	50	47.4	95	46.4	93	2	70-130/25
75-15-0	Carbon disulfide	50	73.8	148* a	71.0	142* a	4	70-130/25
56-23-5	Carbon tetrachloride	50	61.2	122	58.1	116	5	70-130/25
108-90-7	Chlorobenzene	50	53.5	107	53.5	107	0	70-130/25
75-00-3	Chloroethane	50	59.6	119	61.0	122	2	70-130/25
67-66-3	Chloroform	50	60.2	120	57.7	115	4	70-130/25
74-87-3	Chloromethane	50	48.9	98	52.8	106	8	70-130/25
110-82-7	Cyclohexane	50	68.3	137	63.9	128	7	71-145/25
96-12-8	1,2-Dibromo-3-chloropropane	50	48.2	96	50.7	101	5	70-130/25
124-48-1	Dibromochloromethane	50	54.8	110	55.2	110	1	70-130/25
106-93-4	1,2-Dibromoethane	50	53.2	106	54.5	109	2	70-130/25
95-50-1	1,2-Dichlorobenzene	50	53.8	108	54.2	108	1	70-130/25
541-73-1	1,3-Dichlorobenzene	50	52.0	104	51.1	102	2	70-130/25
106-46-7	1,4-Dichlorobenzene	50	54.0	108	54.6	109	1	70-130/25
75-71-8	Dichlorodifluoromethane	50	36.5	73	36.5	73	0	70-130/25
75-34-3	1,1-Dichloroethane	50	62.5	125	60.0	120	4	70-130/25
107-06-2	1,2-Dichloroethane	50	62.1	124	60.5	121	3	70-130/25
75-35-4	1,1-Dichloroethene	50	60.4	121	58.6	117	3	70-130/25
156-59-2	cis-1,2-Dichloroethene	50	56.7	113	54.8	110	3	70-130/25
156-60-5	trans-1,2-Dichloroethene	50	58.0	116	56.2	112	3	70-130/25
78-87-5	1,2-Dichloropropane	50	61.9	124	60.8	122	2	70-130/25
10061-01-5	cis-1,3-Dichloropropene	50	59.4	119	58.9	118	1	70-130/25
10061-02-6	trans-1,3-Dichloropropene	50	59.0	118	59.8	120	1	70-130/25
100-41-4	Ethylbenzene	50	56.2	112	55.0	110	2	70-130/25
76-13-1	Freon 113	50	51.1	102	50.3	101	2	70-130/25
591-78-6	2-Hexanone	50	44.7	89	46.9	94	5	70-130/25
98-82-8	Isopropylbenzene	50	53.8	108	51.7	103	4	70-130/25
79-20-9	Methyl Acetate	50	70.9	142* a	73.2	146* a	3	40-137/25
108-87-2	Methylcyclohexane	50	64.0	128	60.8	122	5	74-143/25
1634-04-4	Methyl Tert Butyl Ether	50	51.4	103	52.9	106	3	70-130/25
108-10-1	4-Methyl-2-pentanone (MIBK)	50	63.7	127	66.5	133* a	4	70-130/25

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

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Job Number: MC32460

Account: WSPVAR WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1230-BS	V33572.D	1	08/06/14	AMY	n/a	n/a	MSV1230
MSV1230-BSD	V33573.D	1	08/06/14	AMY	n/a	n/a	MSV1230

The QC reported here applies to the following samples:

Method: SW846 8260C

MC32460-2, MC32460-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
75-09-2	Methylene chloride	50	52.8	106	51.8	104	2	70-130/25
100-42-5	Styrene	50	59.9	120	60.0	120	0	70-130/25
79-34-5	1,1,2,2-Tetrachloroethane	50	48.0	96	49.8	100	4	70-130/25
127-18-4	Tetrachloroethene	50	51.6	103	49.6	99	4	70-130/25
108-88-3	Toluene	50	60.3	121	58.6	117	3	70-130/25
120-82-1	1,2,4-Trichlorobenzene	50	46.9	94	48.4	97	3	70-130/25
71-55-6	1,1,1-Trichloroethane	50	66.4	133* a	64.3	129	3	70-130/25
79-00-5	1,1,2-Trichloroethane	50	58.3	117	59.7	119	2	70-130/25
79-01-6	Trichloroethene	50	56.5	113	54.4	109	4	70-130/25
75-69-4	Trichlorofluoromethane	50	51.0	102	50.3	101	1	70-130/25
75-01-4	Vinyl chloride	50	45.7	91	46.0	92	1	70-130/25
1330-20-7	Xylene (total)	150	169	113	167	111	1	70-130/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	107%	106%	70-130%
2037-26-5	Toluene-D8	107%	108%	70-130%
460-00-4	4-Bromofluorobenzene	90%	90%	70-130%

(a) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

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Job Number: MC32460

Account: WSPVAR WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC32460-4MS	U21552.D	1	08/04/14	AMY	n/a	n/a	MSU957
MC32460-4MSD	U21553.D	1	08/04/14	AMY	n/a	n/a	MSU957
MC32460-4	U21540.D	1	08/04/14	AMY	n/a	n/a	MSU957

The QC reported here applies to the following samples:

Method: SW846 8260C

MC32460-4

CAS No.	Compound	MC32460-4 ug/l	Spike Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		50	19.8	40* a	50	23.3	47* a	16	70-130/30
71-43-2	Benzene	ND		50	50.2	100	50	51.7	103	3	70-130/30
75-27-4	Bromodichloromethane	ND		50	53.8	108	50	54.2	108	1	70-130/30
75-25-2	Bromoform	ND		50	46.6	93	50	47.1	94	1	70-130/30
74-83-9	Bromomethane	ND		50	48.4	97	50	51.8	104	7	70-130/30
78-93-3	2-Butanone (MEK)	ND		50	29.4	59* a	50	32.1	64* a	9	70-130/30
75-15-0	Carbon disulfide	ND		50	46.0	92	50	47.0	94	2	70-130/30
56-23-5	Carbon tetrachloride	ND		50	49.7	99	50	51.0	102	3	70-130/30
108-90-7	Chlorobenzene	ND		50	50.4	101	50	50.5	101	0	70-130/30
75-00-3	Chloroethane	4.2		50	61.2	114	50	64.7	121	6	70-130/30
67-66-3	Chloroform	ND		50	51.0	102	50	52.0	104	2	70-130/30
74-87-3	Chloromethane	ND		50	49.5	99	50	52.2	104	5	70-130/30
110-82-7	Cyclohexane	ND		50	53.6	107	50	54.8	110	2	60-160/30
96-12-8	1,2-Dibromo-3-chloropropane	ND		50	47.5	95	50	51.5	103	8	70-130/30
124-48-1	Dibromochloromethane	ND		50	49.9	100	50	49.9	100	0	70-130/30
106-93-4	1,2-Dibromoethane	ND		50	47.2	94	50	46.5	93	1	70-130/30
95-50-1	1,2-Dichlorobenzene	0.54	J	50	53.5	106	50	54.7	108	2	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		50	51.2	102	50	52.9	106	3	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		50	50.5	101	50	51.6	103	2	70-130/30
75-71-8	Dichlorodifluoromethane	ND		50	44.4	89	50	46.1	92	4	70-130/30
75-34-3	1,1-Dichloroethane	117		50	147	60* b	50	150	66* b	2	70-130/30
107-06-2	1,2-Dichloroethane	ND		50	50.0	100	50	51.6	103	3	70-130/30
75-35-4	1,1-Dichloroethene	8.5		50	56.4	96	50	58.4	100	3	70-130/30
156-59-2	cis-1,2-Dichloroethene	3.3		50	50.6	95	50	52.1	98	3	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		50	48.3	97	50	49.9	100	3	70-130/30
78-87-5	1,2-Dichloropropane	ND		50	51.0	102	50	51.5	103	1	70-130/30
10061-01-5	cis-1,3-Dichloropropene	ND		50	46.4	93	50	46.6	93	0	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND		50	47.5	95	50	46.8	94	1	70-130/30
100-41-4	Ethylbenzene	ND		50	50.8	102	50	51.3	103	1	70-130/30
76-13-1	Freon 113	ND		50	51.3	103	50	53.4	107	4	70-130/30
591-78-6	2-Hexanone	ND		50	29.1	58* a	50	31.1	62* a	7	70-130/30
98-82-8	Isopropylbenzene	ND		50	55.6	111	50	57.5	115	3	70-130/30
79-20-9	Methyl Acetate	ND		50	50.9	102	50	55.7	111	9	34-145/30
108-87-2	Methylcyclohexane	ND		50	52.7	105	50	53.6	107	2	70-130/30
1634-04-4	Methyl Tert Butyl Ether	ND		50	50.0	100	50	51.5	103	3	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		50	47.1	94	50	49.7	99	5	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

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Job Number: MC32460

Account: WSPVAR WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC32460-4MS	U21552.D	1	08/04/14	AMY	n/a	n/a	MSU957
MC32460-4MSD	U21553.D	1	08/04/14	AMY	n/a	n/a	MSU957
MC32460-4	U21540.D	1	08/04/14	AMY	n/a	n/a	MSU957

The QC reported here applies to the following samples:

Method: SW846 8260C

MC32460-4

CAS No.	Compound	MC32460-4 ug/l	Spike Q	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD	
75-09-2	Methylene chloride	ND		50	48.7	97	50	50.9	102	4	70-130/30
100-42-5	Styrene	ND		50	45.3	91	50	47.0	94	4	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	52.0	104	50	54.1	108	4	70-130/30
127-18-4	Tetrachloroethene	ND		50	51.9	104	50	51.3	103	1	70-130/30
108-88-3	Toluene	ND		50	49.9	100	50	50.2	100	1	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND		50	50.9	102	50	56.6	113	11	70-130/30
71-55-6	1,1,1-Trichloroethane	87.0		50	118	62* a	50	121	68* a	3	70-130/30
79-00-5	1,1,2-Trichloroethane	ND		50	48.8	98	50	48.5	97	1	70-130/30
79-01-6	Trichloroethene	0.90	J	50	51.5	101	50	51.9	102	1	70-130/30
75-69-4	Trichlorofluoromethane	ND		50	44.5	89	50	45.8	92	3	70-130/30
75-01-4	Vinyl chloride	ND		50	47.8	96	50	50.6	101	6	70-130/30
1330-20-7	Xylene (total)	ND		150	151	101	150	153	102	1	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	MC32460-4	Limits
1868-53-7	Dibromofluoromethane	113%	116%	114%	70-130%
2037-26-5	Toluene-D8	111%	110%	114%	70-130%
460-00-4	4-Bromofluorobenzene	108%	108%	111%	70-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.

(b) Outside control limits due to high level in sample relative to spike amount.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 2

Job Number: MC32460

Account: WSPVAR WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC32460-2MS	V33585.D	5	08/06/14	AMY	n/a	n/a	MSV1230
MC32460-2MSD	V33586.D	5	08/06/14	AMY	n/a	n/a	MSV1230
MC32460-2	V33581.D	1	08/06/14	AMY	n/a	n/a	MSV1230

The QC reported here applies to the following samples:

Method: SW846 8260C

MC32460-2, MC32460-3

CAS No.	Compound	MC32460-2 ug/l	Spike Q	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND	250	125	50* a	250	131	52* a	5	70-130/30
71-43-2	Benzene	ND	250	295	118	250	288	115	2	70-130/30
75-27-4	Bromodichloromethane	ND	250	390	156* b	250	382	153* b	2	70-130/30
75-25-2	Bromoform	ND	250	276	110	250	279	112	1	70-130/30
74-83-9	Bromomethane	ND	250	293	117	250	278	111	5	70-130/30
78-93-3	2-Butanone (MEK)	ND	250	208	83	250	206	82	1	70-130/30
75-15-0	Carbon disulfide	ND	250	418	167* b	250	400	160* b	4	70-130/30
56-23-5	Carbon tetrachloride	ND	250	340	136* a	250	330	132* a	3	70-130/30
108-90-7	Chlorobenzene	ND	250	278	111	250	273	109	2	70-130/30
75-00-3	Chloroethane	ND	250	377	151* a	250	354	142* a	6	70-130/30
67-66-3	Chloroform	ND	250	332	133* a	250	317	127	5	70-130/30
74-87-3	Chloromethane	ND	250	324	130	250	298	119	8	70-130/30
110-82-7	Cyclohexane	ND	250	370	148	250	357	143	4	60-160/30
96-12-8	1,2-Dibromo-3-chloropropane	ND	250	256	102	250	274	110	7	70-130/30
124-48-1	Dibromochloromethane	ND	250	286	114	250	289	116	1	70-130/30
106-93-4	1,2-Dibromoethane	ND	250	278	111	250	277	111	0	70-130/30
95-50-1	1,2-Dichlorobenzene	ND	250	284	114	250	280	112	1	70-130/30
541-73-1	1,3-Dichlorobenzene	ND	250	273	109	250	264	106	3	70-130/30
106-46-7	1,4-Dichlorobenzene	ND	250	288	115	250	276	110	4	70-130/30
75-71-8	Dichlorodifluoromethane	ND	250	253	101	250	209	84	19	70-130/30
75-34-3	1,1-Dichloroethane	ND	250	350	140* a	250	334	134* a	5	70-130/30
107-06-2	1,2-Dichloroethane	ND	250	354	142* a	250	351	140* a	1	70-130/30
75-35-4	1,1-Dichloroethene	ND	250	349	140* a	250	334	134* a	4	70-130/30
156-59-2	cis-1,2-Dichloroethene	4.2	250	300	118	250	292	115	3	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND	250	321	128	250	309	124	4	70-130/30
78-87-5	1,2-Dichloropropane	ND	250	326	130	250	322	129	1	70-130/30
10061-01-5	cis-1,3-Dichloropropene	ND	250	303	121	250	306	122	1	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND	250	306	122	250	313	125	2	70-130/30
100-41-4	Ethylbenzene	ND	250	288	115	250	279	112	3	70-130/30
76-13-1	Freon 113	ND	250	315	126	250	296	118	6	70-130/30
591-78-6	2-Hexanone	ND	250	200	80	250	209	84	4	70-130/30
98-82-8	Isopropylbenzene	ND	250	286	114	250	268	107	6	70-130/30
79-20-9	Methyl Acetate	ND	250	410	164* b	250	425	170* b	4	34-145/30
108-87-2	Methylcyclohexane	ND	250	330	132* a	250	316	126	4	70-130/30
1634-04-4	Methyl Tert Butyl Ether	ND	250	274	110	250	286	114	4	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	250	346	138* b	250	362	145* b	5	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 2 of 2

Job Number: MC32460

Account: WSPVAR WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC32460-2MS	V33585.D	5	08/06/14	AMY	n/a	n/a	MSV1230
MC32460-2MSD	V33586.D	5	08/06/14	AMY	n/a	n/a	MSV1230
MC32460-2	V33581.D	1	08/06/14	AMY	n/a	n/a	MSV1230

The QC reported here applies to the following samples:

Method: SW846 8260C

MC32460-2, MC32460-3

CAS No.	Compound	MC32460-2 ug/l	Spike Q	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
75-09-2	Methylene chloride	ND	250	296	118	250	289	116	2	70-130/30
100-42-5	Styrene	ND	250	309	124	250	304	122	2	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND	250	259	104	250	256	102	1	70-130/30
127-18-4	Tetrachloroethene	ND	250	260	104	250	251	100	4	70-130/30
108-88-3	Toluene	ND	250	311	124	250	303	121	3	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND	250	243	97	250	247	99	2	70-130/30
71-55-6	1,1,1-Trichloroethane	ND	250	364	146* b	250	347	139* b	5	70-130/30
79-00-5	1,1,2-Trichloroethane	ND	250	313	125	250	314	126	0	70-130/30
79-01-6	Trichloroethene	35.8	250	329	117	250	315	112	4	70-130/30
75-69-4	Trichlorofluoromethane	ND	250	340	136* a	250	307	123	10	70-130/30
75-01-4	Vinyl chloride	ND	250	283	113	250	270	108	5	70-130/30
1330-20-7	Xylene (total)	ND	750	856	114	750	830	111	3	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	MC32460-2	Limits
1868-53-7	Dibromofluoromethane	112%	109%	110%	70-130%
2037-26-5	Toluene-D8	107%	107%	102%	70-130%
460-00-4	4-Bromofluorobenzene	92%	91%	112%	70-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.

(b) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Instrument Performance Check (BFB)

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Job Number: MC32460**Account:** WSPVAR WSP Environmental & Energy**Project:** Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY**Sample:** MSU957-BFB**Injection Date:** 08/03/14**Lab File ID:** U21506A.D**Injection Time:** 12:25**Instrument ID:** GCMSU

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	64960	23.2	Pass
75	30.0 - 60.0% of mass 95	134848	48.2	Pass
95	Base peak, 100% relative abundance	279936	100.0	Pass
96	5.0 - 9.0% of mass 95	19096	6.82	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 150.0% of mass 95	271104	96.8	Pass
175	5.0 - 9.0% of mass 174	17520	6.26 (6.46) ^a	Pass
176	95.0 - 101.0% of mass 174	262720	93.9 (96.9) ^a	Pass
177	5.0 - 9.0% of mass 176	17344	6.20 (6.60) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
MSU957-IC957	U21510.D	08/03/14	14:51	02:26	Initial cal 0.5
MSU957-IC957	U21511.D	08/03/14	15:19	02:54	Initial cal 1
MSU957-IC957	U21512.D	08/03/14	15:46	03:21	Initial cal 2
MSU957-IC957	U21513.D	08/03/14	16:14	03:49	Initial cal 5
MSU957-IC957	U21514.D	08/03/14	16:41	04:16	Initial cal 10
MSU957-IC957	U21515.D	08/03/14	17:08	04:43	Initial cal 25
MSU957-ICC957	U21516.D	08/03/14	17:35	05:10	Initial cal 50
MSU957-IC957	U21517.D	08/03/14	18:02	05:37	Initial cal 100
MSU957-IC957	U21518.D	08/03/14	18:29	06:04	Initial cal 200
MSU957-IC957	U21519.D	08/03/14	18:56	06:31	Initial cal 400
MSU957-ICV957	U21523.D	08/03/14	20:45	08:20	Initial cal verification 50

Instrument Performance Check (BFB)

Job Number: MC32460

Account: WSPVAR WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Sample: MSU957-BFB

Injection Date: 08/04/14

Lab File ID: U21528.D

Injection Time: 09:24

Instrument ID: GCMSU

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	39616	27.5	Pass
75	30.0 - 60.0% of mass 95	73104	50.7	Pass
95	Base peak, 100% relative abundance	144320	100.0	Pass
96	5.0 - 9.0% of mass 95	10908	7.56	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 150.0% of mass 95	114864	79.6	Pass
175	5.0 - 9.0% of mass 174	8264	5.73 (7.19) ^a	Pass
176	95.0 - 101.0% of mass 174	112072	77.7 (97.6) ^a	Pass
177	5.0 - 9.0% of mass 176	8364	5.80 (7.46) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
MSU957-CC957	U21528.D	08/04/14	09:24	00:00	Continuing cal 50
MSU957-BS	U21529.D	08/04/14	09:52	00:28	Blank Spike
MSU957-BSD	U21530.D	08/04/14	10:19	00:55	Blank Spike Duplicate
MSU957-MB	U21532.D	08/04/14	11:13	01:49	Method Blank
ZZZZZZ	U21533.D	08/04/14	11:40	02:16	(unrelated sample)
ZZZZZZ	U21534.D	08/04/14	12:07	02:43	(unrelated sample)
ZZZZZZ	U21535.D	08/04/14	12:35	03:11	(unrelated sample)
ZZZZZZ	U21537.D	08/04/14	13:31	04:07	(unrelated sample)
ZZZZZZ	U21538.D	08/04/14	13:58	04:34	(unrelated sample)
ZZZZZZ	U21539.D	08/04/14	14:25	05:01	(unrelated sample)
MC32460-4	U21540.D	08/04/14	14:53	05:29	LBA-MW-39
ZZZZZZ	U21541.D	08/04/14	15:20	05:56	(unrelated sample)
ZZZZZZ	U21542.D	08/04/14	15:48	06:24	(unrelated sample)
ZZZZZZ	U21543.D	08/04/14	16:15	06:51	(unrelated sample)
ZZZZZZ	U21544.D	08/04/14	16:42	07:18	(unrelated sample)
ZZZZZZ	U21545.D	08/04/14	17:09	07:45	(unrelated sample)
ZZZZZZ	U21546.D	08/04/14	17:37	08:13	(unrelated sample)
ZZZZZZ	U21547.D	08/04/14	18:05	08:41	(unrelated sample)
ZZZZZZ	U21548.D	08/04/14	18:32	09:08	(unrelated sample)
ZZZZZZ	U21549.D	08/04/14	18:59	09:35	(unrelated sample)
ZZZZZZ	U21550.D	08/04/14	19:27	10:03	(unrelated sample)
ZZZZZZ	U21551.D	08/04/14	19:54	10:30	(unrelated sample)
MC32460-4MS	U21552.D	08/04/14	20:21	10:57	Matrix Spike
MC32460-4MSD	U21553.D	08/04/14	20:49	11:25	Matrix Spike Duplicate

Instrument Performance Check (BFB)

Page 1 of 1

Job Number: MC32460**Account:** WSPVAR WSP Environmental & Energy**Project:** Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY**Sample:** MSV1226-BFB**Injection Date:** 08/01/14**Lab File ID:** V33440.D**Injection Time:** 08:35**Instrument ID:** GCMSV

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	13183	23.2	Pass
75	30.0 - 60.0% of mass 95	28419	50.1	Pass
95	Base peak, 100% relative abundance	56736	100.0	Pass
96	5.0 - 9.0% of mass 95	4000	7.05	Pass
173	Less than 2.0% of mass 174	328	0.58 (0.70) ^a	Pass
174	50.0 - 100.0% of mass 95	46664	82.2	Pass
175	5.0 - 9.0% of mass 174	3430	6.05 (7.35) ^a	Pass
176	95.0 - 101.0% of mass 174	44848	79.0 (96.1) ^a	Pass
177	5.0 - 9.0% of mass 176	3078	5.43 (6.86) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
MSV1226-IC1226	V33442.D	08/01/14	09:27	00:52	Initial cal 0.5
MSV1226-IC1226	V33443.D	08/01/14	09:54	01:19	Initial cal 1
MSV1226-IC1226	V33444.D	08/01/14	10:20	01:45	Initial cal 2
MSV1226-IC1226	V33445.D	08/01/14	10:46	02:11	Initial cal 5
MSV1226-IC1226	V33446.D	08/01/14	11:12	02:37	Initial cal 10
MSV1226-IC1226	V33447.D	08/01/14	11:38	03:03	Initial cal 25
MSV1226-ICC1226	V33448.D	08/01/14	12:04	03:29	Initial cal 50
MSV1226-IC1226	V33449.D	08/01/14	12:30	03:55	Initial cal 100
MSV1226-IC1226	V33451.D	08/01/14	14:03	05:28	Initial cal 200
MSV1226-IC1226	V33452.D	08/01/14	14:29	05:54	Initial cal 400
MSV1226-ICV1226	V33457.D	08/01/14	17:26	08:51	Initial cal verification 50

Instrument Performance Check (BFB)**Job Number:** MC32460**Account:** WSPVAR WSP Environmental & Energy**Project:** Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY**Sample:** MSV1230-BFB**Injection Date:** 08/06/14**Lab File ID:** V33571.D**Injection Time:** 08:48**Instrument ID:** GCMSV

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	18664	27.5	Pass
75	30.0 - 60.0% of mass 95	36928	54.5	Pass
95	Base peak, 100% relative abundance	67816	100.0	Pass
96	5.0 - 9.0% of mass 95	4696	6.92	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 100.0% of mass 95	49416	72.9	Pass
175	5.0 - 9.0% of mass 174	3731	5.50 (7.55) ^a	Pass
176	95.0 - 101.0% of mass 174	48224	71.1 (97.6) ^a	Pass
177	5.0 - 9.0% of mass 176	3331	4.91 (6.91) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
MSV1230-CC1226	V33571.D	08/06/14	08:48	00:00	Continuing cal 50
MSV1230-BS	V33572.D	08/06/14	09:14	00:26	Blank Spike
MSV1230-BSD	V33573.D	08/06/14	09:40	00:52	Blank Spike Duplicate
MSV1230-MB	V33575.D	08/06/14	10:33	01:45	Method Blank
ZZZZZZ	V33576.D	08/06/14	10:59	02:11	(unrelated sample)
ZZZZZZ	V33577.D	08/06/14	11:25	02:37	(unrelated sample)
ZZZZZZ	V33578.D	08/06/14	11:52	03:04	(unrelated sample)
ZZZZZZ	V33579.D	08/06/14	12:34	03:46	(unrelated sample)
ZZZZZZ	V33580.D	08/06/14	13:00	04:12	(unrelated sample)
MC32460-2	V33581.D	08/06/14	13:28	04:40	LBA-BLDG24-SEEP
MC32460-3	V33582.D	08/06/14	13:54	05:06	LBA-MW-49
ZZZZZZ	V33583.D	08/06/14	14:20	05:32	(unrelated sample)
ZZZZZZ	V33584.D	08/06/14	14:46	05:58	(unrelated sample)
MC32460-2MS	V33585.D	08/06/14	15:12	06:24	Matrix Spike
MC32460-2MSD	V33586.D	08/06/14	15:38	06:50	Matrix Spike Duplicate

Volatile Internal Standard Area Summary

Page 1 of 1

Job Number: MC32460

Account: WSPVAR WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Check Std: MSU957-CC957

Injection Date: 08/04/14

Lab File ID: U21528.D

Injection Time: 09:24

Instrument ID: GCMSU

Method: SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	798993	8.97	1268933	9.84	427955	13.10	694347	15.66	323825	6.60
Upper Limit ^a	1597986	9.47	2537866	10.34	855910	13.60	1388694	16.16	647650	7.10
Lower Limit ^b	399497	8.47	634467	9.34	213978	12.60	347174	15.16	161913	6.10

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSU957-BS	803924	8.97	1296013	9.84	470715	13.10	704870	15.66	342426	6.61
MSU957-BSD	811036	8.97	1284900	9.84	499007	13.10	724421	15.66	358703	6.60
MSU957-MB	757053	8.98	1111876	9.85	376944	13.11	667021	15.67	312945	6.62
ZZZZZZ	731241	8.98	1066598	9.85	372623	13.10	676811	15.67	308143	6.62
ZZZZZZ	743612	8.98	1141787	9.85	428817	13.10	670975	15.67	285071	6.61
ZZZZZZ	748899	8.98	1116132	9.85	383751	13.10	675378	15.67	297766	6.63
ZZZZZZ	742213	8.98	1118785	9.84	377019	13.10	656357	15.67	278343	6.62
ZZZZZZ	705784	8.98	1067000	9.85	388193	13.10	645927	15.67	252295	6.62
ZZZZZZ	730729	8.98	1096336	9.84	374528	13.10	655610	15.66	292998	6.61
MC32460-4	701288	8.98	1077896	9.84	394305	13.10	643092	15.67	260135	6.61
ZZZZZZ	697296	8.98	1060587	9.85	359364	13.10	639415	15.67	266296	6.62
ZZZZZZ	697472	8.98	1069287	9.85	378421	13.10	632241	15.67	277303	6.61
ZZZZZZ	707723	8.98	1106423	9.84	368755	13.10	635411	15.66	256514	6.62
ZZZZZZ	677045	8.98	1004169	9.85	352840	13.10	633274	15.67	249047	6.60
ZZZZZZ	696266	8.98	1055520	9.84	350263	13.10	640059	15.67	265751	6.60
ZZZZZZ	735314	8.98	1150509	9.84	380435	13.10	655553	15.67	229679	6.60
ZZZZZZ	715041	8.98	1106170	9.84	395437	13.10	644409	15.67	280477	6.61
ZZZZZZ	692189	8.98	1058282	9.85	371154	13.10	617659	15.67	282908	6.63
ZZZZZZ	671440	8.98	1031281	9.84	380334	13.10	596418	15.66	300804	6.61
ZZZZZZ	698398	8.98	1049802	9.84	354020	13.10	623582	15.66	274003	6.62
ZZZZZZ	736425	8.97	1153604	9.84	426587	13.10	639632	15.66	293614	6.62
MC32460-4MS	781369	8.97	1238002	9.84	445066	13.10	673586	15.66	274804	6.62
MC32460-4MSD	771775	8.97	1230493	9.84	443866	13.10	659398	15.66	304374	6.61

IS 1 = Pentafluorobenzene

IS 2 = 1,4-Difluorobenzene

IS 3 = Chlorobenzene-D5

IS 4 = 1,4-Dichlorobenzene-d4

IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.

(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard Area Summary

Page 1 of 1

Job Number: MC32460

Account: WSPVAR WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Check Std: MSV1230-CC1226

Injection Date: 08/06/14

Lab File ID: V33571.D

Injection Time: 08:48

Instrument ID: GCMSV

Method: SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	166999	6.57	224763	7.75	100173	11.09	131272	13.30	28206	3.52
Upper Limit ^a	333998	7.07	449526	8.25	200346	11.59	262544	13.80	56412	4.02
Lower Limit ^b	83500	6.07	112382	7.25	50087	10.59	65636	12.80	14103	3.02

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSV1230-BS	168409	6.57	224574	7.75	99896	11.09	134345	13.30	27541	3.52
MSV1230-BSD	168551	6.57	226522	7.75	100844	11.09	137022	13.30	29791	3.52
MSV1230-MB	271884	6.57	345957	7.75	148382	11.09	139636	13.30	51912	3.52
ZZZZZZ	246608	6.57	315737	7.75	132299	11.09	122619	13.30	45898	3.52
ZZZZZZ	241001	6.57	306961	7.75	129779	11.09	124546	13.30	54718	3.52
ZZZZZZ	236969	6.57	297645	7.75	124915	11.09	116636	13.30	44000	3.52
ZZZZZZ	290906	6.57	363715	7.75	149087	11.09	137363	13.30	41760	3.52
ZZZZZZ	261567	6.57	325810	7.75	138900	11.09	128538	13.30	44991	3.52
MC32460-2	248245	6.57	317423	7.75	135620	11.09	123698	13.30	40072	3.52
MC32460-3	249439	6.57	305819	7.75	128868	11.09	116242	13.30	41575	3.52
ZZZZZZ	191093	6.57	249290	7.75	106413	11.09	100769	13.30	33560	3.51
ZZZZZZ	202354	6.57	259319	7.75	118412	11.09	107458	13.30	34026	3.52
MC32460-2MS	269763	6.57	359279	7.75	161134	11.09	206656	13.30	43250	3.52
MC32460-2MSD	291231	6.57	382465	7.75	171561	11.09	227835	13.30	52559	3.52

IS 1 = Pentafluorobenzene

IS 2 = 1,4-Difluorobenzene

IS 3 = Chlorobenzene-D5

IS 4 = 1,4-Dichlorobenzene-d4

IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.

(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Surrogate Recovery Summary

Page 1 of 1

Job Number: MC32460

Account: WSPVAR WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Method: SW846 8260C

Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC32460-2	V33581.D	110	102	112
MC32460-3	V33582.D	113	102	113
MC32460-4	U21540.D	114	114	111
MC32460-2MS	V33585.D	112	107	92
MC32460-2MSD	V33586.D	109	107	91
MC32460-4MS	U21552.D	113	111	108
MC32460-4MSD	U21553.D	116	110	108
MSU957-BS	U21529.D	111	116	113
MSU957-BSD	U21530.D	110	116	115
MSU957-MB	U21532.D	116	108	109
MSV1230-BS	V33572.D	107	107	90
MSV1230-BSD	V33573.D	106	108	90
MSV1230-MB	V33575.D	106	104	112

Surrogate Compounds

Recovery Limits

S1 = Dibromofluoromethane

70-130%

S2 = Toluene-D8

70-130%

S3 = 4-Bromofluorobenzene

70-130%

6.6.1

6

Initial Calibration Summary

Page 1 of 5

Job Number: MC32460
Account: WSPVAR WSP Environmental & Energy
Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY
Sample: MSU957-ICC957
Lab FileID: U21516.D

Response Factor Report MSU

Method : D:\msdchem\1\methods\U140802W.m (RTE Integrator)
 Title : SW-846 Method 8260
 Last Update : Mon Aug 04 09:35:50 2014
 Response via : Initial Calibration

Calibration Files

0.5 =U21510.D	1 =U21511.D	2 =U21512.D	5 =U21513.D
10 =U21514.D	25 =U21515.D	50 =U21516.D	100 =U21517.D
200 =U21518.D	400 =U21519.D	=	=

Compound	0.5	1	2	5	10	25	50	100	200	400	Avg	%RSD

1) I tert butyl alcohol-d9	-----ISTD-----											
2) tertiary butyl alcohol												
		0.094	0.072	0.063	0.066	0.083	0.085	0.073	0.079	0.077		13.68
3) Ethanol												
		0.013	0.012	0.011	0.012	0.011	0.011	0.011	0.011	0.011#		6.99
4) I pentafluorobenzene	-----ISTD-----											
5) dichlorodifluoromethane												
		0.680	0.825	0.864	0.721	0.803	0.767	0.746	0.716	0.765		8.07
6) chloromethane												
		1.243	1.474	1.496	1.414	1.374	1.294	1.156	0.936	1.298		14.38
7) vinyl chloride												
		1.097	0.777	0.934	0.996	0.892	0.931	0.876	0.840	0.750	0.899	11.91
8) bromomethane												
		0.455	0.553	0.536	0.518	0.514	0.497	0.475	0.443	0.499		7.71
9) chloroethane												
		0.276	0.359	0.373	0.337	0.352	0.341	0.337	0.316	0.336		8.82
10) ethyl ether												
		0.434	0.442	0.420	0.446	0.418	0.415	0.413	0.427			3.23
11) acetonitrile												
		0.078	0.057	0.084	0.099	0.054	0.054	0.057	0.057	0.067		25.46
---- Linear regression ---- Coefficient = 0.9973												
Response Ratio = 0.00377 + 0.05624 *A												
12) trichlorofluoromethane												
		1.197	0.961	1.116	1.125	0.976	1.116	1.087	1.077	1.039	1.077	6.96
13) freon-113												
		0.382	0.567	0.511	0.577	0.571	0.558	0.571	0.534			13.23
14) acrolein												
		0.031	0.030	0.027	0.029	0.027	0.033	0.036	0.030#			10.85
15) 1,1-dichloroethene												
		0.529	0.510	0.370	0.506	0.445	0.467	0.441	0.440	0.436	0.460	10.60
16) acetone												
		0.147	0.141	0.125	0.108	0.110	0.108	0.123				14.41
17) Methyl Acetate												
		0.532	0.503	0.474	0.449	0.413	0.445	0.444	0.466			8.71
18) methylene chloride												
		0.540	0.532	0.549	0.511	0.506	0.476	0.474	0.462	0.506		6.46
19) methyl tert butyl ether												
		1.209	1.154	1.196	1.256	1.199	1.185	1.120	1.169	1.156	1.183	3.30
20) acrylonitrile												
		0.227	0.237	0.235	0.221	0.198	0.222	0.222	0.223			5.77
21) allyl chloride												
		0.939	1.076	1.005	1.025	0.972	0.957	0.909	0.983			5.74

6.7.1
6

Initial Calibration Summary

Job Number: MC32460

Sample: MSU957-ICC957

Account: WSPVAR WSP Environmental & Energy

Lab FileID: U21516.D

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

22)	trans-1,2-dichloroethene	0.606	0.587	0.494	0.567	0.527	0.532	0.498	0.494	0.491	0.533	8.24
23)	iodomethane	1.026	1.125	1.071	1.085	1.016	1.016	0.990	1.047			4.56
24)	carbon disulfide	1.227	1.493	1.352	1.416	1.355	1.346	1.329	1.360			5.98
25)	propionitrile	0.044	0.047	0.048	0.051	0.049	0.047	0.047	0.048#			4.79
26)	vinyl acetate	0.899	0.836	0.847	0.926	0.949	0.971	0.989	0.917			6.44
27)	chloroprene	0.677	0.881	0.838	0.907	0.891	0.880	0.865	0.848			9.29
28)	di-isopropyl ether	1.972	1.995	2.069	2.010	2.020	1.923	1.899	1.771	1.958		4.74
29)	methacrylonitrile	0.304	0.300	0.285	0.294	0.289	0.293	0.314	0.297			3.29
30)	2-butanone	0.041	0.064	0.062	0.062	0.056	0.060	0.065	0.059#			13.77
31)	Ethyl Acetate	1.554	1.773	1.701	1.730	1.657	1.664	1.599	1.668			4.50
32)	Hexane	0.703	0.856	0.799	0.834	0.819	0.825	0.800	0.805			6.10
33)	1,1-dichloroethane	0.976	1.053	0.999	1.068	1.027	1.061	1.009	1.006	0.978	1.020	3.39
34)	tert-butyl ethyl ether	1.586	1.541	1.652	1.655	1.606	1.563	1.624	1.566	1.599		2.64
35)	isobutyl alcohol	0.077	0.075	0.067	0.060	0.057	0.062	0.059	0.065			12.11
36)	2,2-dichloropropane	0.567	0.694	0.644	0.649	0.620	0.624	0.599	0.628			6.40
37)	cis-1,2-dichloroethene	0.697	0.603	0.602	0.605	0.584	0.588	0.556	0.548	0.537	0.591	7.97
38)	bromochloromethane	0.340	0.340	0.327	0.341	0.319	0.315	0.313	0.328			3.76
39)	chloroform	0.834	0.941	0.940	0.933	0.915	0.959	0.910	0.901	0.884	0.913	4.10
40)	dibromofluoromethane (s)	0.574	0.546	0.527	0.572	0.546	0.537	0.520	0.546			3.81
41)	Tetrahydrofuran	0.181	0.179	0.153	0.155	0.147	0.152	0.156	0.161			8.56
42)	1,1,1-trichloroethane	0.750	0.837	0.738	0.918	0.868	0.909	0.894	0.890	0.887	0.855	7.86
43)	I 1,4-difluorobenzene	-----ISTD-----										
44)	Cyclohexane	0.487	0.682	0.620	0.653	0.618	0.621	0.602	0.612			10.02
45)	carbon tetrachloride	0.477	0.545	0.432	0.577	0.531	0.553	0.531	0.533	0.514	0.521	8.31
46)	1,1-dichloropropene	0.311	0.369	0.346	0.377	0.369	0.371	0.366	0.358			6.43
47)	benzene	1.286	0.980	1.048	1.008	1.002	0.996	1.019	0.990	0.998	0.959	9.09
48)	1,2-dichloroethane	0.425	0.493	0.481	0.467	0.450	0.467	0.457	0.450	0.449	0.460	4.32
49)	tert-amyl methyl ether	0.673	0.685	0.788	0.747	0.696	0.651	0.692	0.664	0.699		6.54
50)	heptane	0.336	0.423	0.414	0.419	0.425	0.441	0.418	0.411			8.35
51)	trichloroethene	0.343	0.275	0.332	0.305	0.300	0.305	0.326	0.320	0.318	0.314	6.03

Initial Calibration Summary

Job Number: MC32460

Sample: MSU957-ICC957

Account: WSPVAR WSP Environmental & Energy

Lab FileID: U21516.D

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

52)	1,2-dichloropropane	0.304	0.277	0.282	0.287	0.293	0.296	0.306	0.309	0.294	3.96
53)	dibromomethane	0.201	0.190	0.183	0.182	0.183	0.181	0.178	0.182	0.185	3.92
54)	bromodichloromethane	0.347	0.388	0.370	0.352	0.371	0.387	0.391	0.397	0.402	5.13
55)	Methylcyclohexane	0.359	0.476	0.437	0.457	0.441	0.444	0.428	0.435		8.50
56)	2-chloroethyl vinyl ether	0.077	0.097	0.102	0.082	0.102	0.133	0.142	0.105		23.13
	---- Quadratic regression ----	Coefficient = 0.9950									
	Response Ratio =	-0.00252 + 0.09887 *A + 0.00565 *A^2									
57)	methyl methacrylate	0.068	0.086	0.092	0.086	0.092			0.085		11.75
58)	1,4-dioxane	0.002	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002#	18.71
	---- Linear regression ----	Coefficient = 0.9917									
	Response Ratio =	0.00020 + 0.00191 *A									
59)	cis-1,3-dichloropropene	0.263	0.279	0.329	0.267	0.291	0.321	0.312	0.345	0.375	14.19
60)	toluene-d8 (s)	0.745	0.767	0.808	0.817	0.866	0.943	0.926	0.839		9.05
61)	4-methyl-2-pentanone	0.256	0.293	0.302	0.273	0.256	0.286	0.302	0.281		7.06
62)	toluene	0.485	0.519	0.437	0.489	0.509	0.513	0.543	0.594	0.608	10.23
63)	trans-1,3-dichloropropene	0.232	0.198	0.256	0.198	0.221	0.231	0.219	0.245	0.296	13.00
64)	1,1,2-trichloroethane	0.125	0.138	0.117	0.138	0.140	0.136	0.143	0.165	0.175	12.65
65)	ethyl methacrylate	0.159	0.186	0.202	0.168	0.172	0.209	0.235	0.190		14.05
66)	I chlorobenzene-d5	-----ISTD-----									
67)	tetrachloroethene	0.686	0.609	0.860	0.612	0.715	0.729	0.772	0.811	0.777	11.03
68)	1,3-dichloropropane	0.609	0.640	0.673	0.649	0.673	0.721	0.733	0.671		6.58
69)	dibromochloromethane	0.811	0.679	0.869	0.774	0.769	0.789	0.794	0.821	0.820	6.22
70)	1,2-dibromoethane	0.637	0.532	0.533	0.545	0.524	0.545	0.572	0.573	0.558	6.58
71)	2-hexanone	0.510	0.636	0.688	0.534	0.488	0.552	0.565	0.568		12.48
72)	chlorobenzene	1.668	1.918	1.742	1.730	1.767	1.765	1.853	1.887	1.841	4.57
73)	1,1,1,2-tetrachloroethane	1.021	1.109	1.071	1.038	1.081	1.038	0.972	0.925	1.032	5.82
74)	ethylbenzene	2.623	2.930	2.668	2.773	2.793	2.820	2.823	2.856	2.693	3.53
75)	m,p-xylene	1.284	1.111	1.200	1.133	1.154	1.176	1.184	1.199	1.201	4.06
76)	o-xylene	1.509	1.370	1.306	1.384	1.365	1.386	1.387	1.367	1.318	4.94
77)	styrene	1.816	1.785	1.767	1.730	1.720	1.835	1.837	1.784		2.68
78)	bromoform	0.484	0.550	0.562	0.552	0.561	0.540	0.514	0.542	0.561	4.80

Initial Calibration Summary

Job Number: MC32460

Sample: MSU957-ICC957

Account: WSPVAR WSP Environmental & Energy

Lab FileID: U21516.D

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

79)	trans-1,4-dichloro-2-butene	0.148	0.141	0.177	0.184	0.178	0.199	0.214	0.177	14.58
80)	I 1,4-dichlorobenzene-d -----ISTD-----									
81)	isopropylbenzene	1.842	2.058	2.195	2.394	2.589	2.556	2.370	2.286	11.86
82)	bromofluorobenzene (s)	0.535	0.508	0.533	0.547	0.578	0.657	0.691	0.578	11.96
83)	bromobenzene	0.567	0.567	0.606	0.610	0.645	0.705	0.745	0.635	10.70
84)	1,1,2,2-tetrachloroethane	0.455	0.442	0.528	0.442	0.452	0.458	0.456	0.465	6.34
85)	1,2,3-trichloropropane	0.398	0.411	0.441	0.444	0.448	0.497	0.539	0.454	10.75
86)	n-propylbenzene	2.022	2.216	2.320	2.443	2.568	2.659	2.403	2.376	9.03
87)	2-chlorotoluene	1.380	1.431	1.499	1.584	1.673	1.737	1.713	1.574	8.95
88)	4-chlorotoluene	1.362	1.399	1.479	1.503	1.572	1.729	1.763	1.544	10.00
89)	1,3,5-trimethylbenzene	1.827	2.178	1.866	2.061	2.237	2.376	2.575	2.550	12.06
90)	tert-butylbenzene	0.788	0.999	1.161	1.340	1.531	1.487	1.461	1.252	22.38
	---- Linear regression ---- Coefficient =									
	Response Ratio = -0.08725 + 1.48768 *A									
91)	1,2,4-trimethylbenzene	1.904	2.222	2.020	2.103	2.252	2.366	2.509	2.500	9.17
92)	sec-butylbenzene	2.165	2.492	2.780	2.981	3.260	3.151	2.558	2.770	14.12
93)	1,3-dichlorobenzene	1.237	1.418	1.290	1.292	1.379	1.414	1.422	1.461	5.72
94)	p-isopropyltoluene	2.120	2.417	2.558	2.696	2.909	2.823	2.381	2.558	10.77
95)	1,4-dichlorobenzene	1.366	1.469	1.337	1.340	1.362	1.424	1.416	1.434	3.39
96)	1,2-dichlorobenzene	1.402	1.481	1.456	1.443	1.516	1.574	1.574	1.528	4.12
97)	n-butylbenzene	1.921	2.118	2.247	2.301	2.379	2.319	2.083	2.195	7.36
98)	1,2-dibromo-3-chloropropane	0.164	0.160	0.158	0.154	0.148	0.145	0.140	0.153	5.58
99)	1,3,5-trichlorobenzene	1.254	1.289	1.329	1.405	1.394	1.262	1.135	1.295	7.15
100)	1,2,4-trichlorobenzene	1.293	1.273	1.310	1.371	1.374	1.237	1.087	1.278	7.64
101)	hexachlorobutadiene	0.550	0.567	0.597	0.615	0.644	0.592	0.540	0.586	6.30
102)	naphthalene	2.945	2.983	3.132	3.306	3.238	2.897	2.355	2.979	10.57
103)	2-Methylnaphthalene	1.662	1.731	1.814	1.807	1.656	1.435	1.684		8.31
104)	1-Methylnaphthalene	1.392	1.411	1.484	1.474	1.316	1.121	1.366		9.87
105)	1,2,3-trichlorobenzene	1.234	1.173	1.216	1.274	1.265	1.131	0.992	1.184	8.30

(#) = Out of Range ### Number of calibration levels exceeded format ###

Initial Calibration Summary

Job Number: MC32460

Account: WSPVAR WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Sample: MSU957-ICC957

Lab FileID: U21516.D

U140802W.m

Mon Aug 04 09:36:09 2014

Initial Calibration Verification

Page 1 of 3

Job Number: MC32460

Sample: MSU957-ICV957

Account: WSPVAR WSP Environmental & Energy

Lab FileID: U21523.D

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : D:\msdchem\1\data\U140802\U21523.D

Vial: 23

Acq On : 3 Aug 2014 8:45 pm

Operator: amym

Sample : icv957-50

Inst : MSU

Misc : ms32403,msu957,,,,5,1

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : D:\msdchem\1\methods\U140802W.m (RTE Integrator)

Title : SW-846 Method 8260

Last Update : Mon Aug 04 09:37:40 2014

Response via : Multiple Level Calibration

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

Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	tert butyl alcohol-d9	1.000	1.000	0.0	111	0.00	6.60
2 P	tertiary butyl alcohol	0.077	0.078	-1.3	104	0.00	6.29
3 P	Ethanol	0.011	0.011#	0.0	109	-0.02	5.57
4 I	pentafluorobenzene	1.000	1.000	0.0	103	0.00	8.97
5 P	dichlorodifluoromethane	0.765	0.753	1.6	96	-0.01	4.33
6 P	chloromethane	1.298	1.370	-5.5	102	0.00	4.55
7 P	vinyl chloride	0.899	0.916	-1.9	101	0.00	4.81
8 P	bromomethane	0.499	0.533	-6.8	107	0.00	5.28
9 P	chloroethane	0.336	0.419	-24.7#	122	0.00	5.42
10 P	ethyl ether	0.427	0.453	-6.1	104	0.00	6.29

11 P	acetonitrile	50.000	60.983	-22.0#	137	0.00	6.07

		AvgRF	CCRF	%Dev			
12 P	trichlorofluoromethane	1.077	1.011	6.1	93	0.00	6.06
13 P	freon-113	0.534	0.595	-11.4	106	0.00	6.83
14 P	acrolein	0.030	0.031#	-3.3	110	0.00	6.05
15 P	1,1-dichloroethene	0.460	0.499	-8.5	110	0.00	6.63
16 P	acetone	0.123	0.101	17.9	83	-0.01	6.20
17 P	Methyl Acetate	0.466	0.516	-10.7	118	0.00	6.82
18 P	methylene chloride	0.506	0.522	-3.2	106	0.00	6.78
19 P	methyl tert butyl ether	1.183	1.228	-3.8	107	0.00	7.56
20 P	acrylonitrile	0.223	0.232	-4.0	108	0.00	6.70
21 P	allyl chloride	0.983	1.052	-7.0	105	0.00	6.87
22 P	trans-1,2-dichloroethene	0.533	0.545	-2.3	105	0.00	7.47
23 P	iodomethane	1.047	1.115	-6.5	106	0.00	6.69
24 P	carbon disulfide	1.360	1.528	-12.4	111	0.00	7.05
25 P	propionitrile	0.048	0.057	-18.8	113	0.00	8.08
26 P	vinyl acetate	0.917	0.686	25.2#	76	0.00	7.82
27 P	chloroprene	0.848	1.098	-29.5#	124	0.00	8.08
28 P	di-isopropyl ether	1.958	1.995	-1.9	101	0.00	8.12
29 P	methacrylonitrile	0.297	0.290	2.4	101	0.00	8.24
30 P	2-butanone	0.059	0.050#	15.3	83	0.00	8.13
31 P	Ethyl Acetate	1.668	1.597	4.3	95	0.00	8.12
32 P	Hexane	0.805	0.807	-0.2	100	0.00	8.11
33 P	1,1-dichloroethane	1.020	1.072	-5.1	104	0.00	7.72
34 P	tert-butyl ethyl ether	1.599	1.741	-8.9	111	0.00	8.52
35 P	isobutyl alcohol	0.065	0.050#	23.1#	85	-0.01	8.52
36 P	2,2-dichloropropane	0.628	0.609	3.0	97	0.00	8.58
37 P	cis-1,2-dichloroethene	0.591	0.586	0.8	102	0.00	8.29

Initial Calibration Verification

Page 2 of 3

Job Number: MC32460

Sample: MSU957-ICV957

Account: WSPVAR WSP Environmental & Energy

Lab FileID: U21523.D

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

38	P	bromochloromethane	0.328	0.333	-1.5	100	0.00	8.46
39	P	chloroform	0.913	0.922	-1.0	99	0.00	8.49
40	S	dibromofluoromethane (s)	0.546	0.565	-3.5	101	0.00	8.61
41	P	Tetrahydrofuran	0.161	0.154	4.3	102	0.00	8.83
42	P	1,1,1-trichloroethane	0.855	0.902	-5.5	102	0.00	9.24
43	I	1,4-difluorobenzene	1.000	1.000	0.0	101	0.00	9.84
44	P	Cyclohexane	0.612	0.702	-14.7	109	0.00	9.53
45	P	carbon tetrachloride	0.521	0.559	-7.3	103	0.00	9.60
46	P	1,1-dichloropropene	0.358	0.353	1.4	95	0.00	9.42
47	P	benzene	1.029	1.017	1.2	101	0.00	9.64
48	P	1,2-dichloroethane	0.460	0.451	2.0	98	0.00	9.14
49	P	tert-amyl methyl ether	0.699	0.744	-6.4	109	0.00	9.76
50	P	heptane	0.411	0.403	1.9	98	0.00	10.12
51	P	trichloroethene	0.314	0.308	1.9	96	0.00	10.26
52	P	1,2-dichloropropane	0.294	0.299	-1.7	103	0.00	10.23
53	P	dibromomethane	0.185	0.183	1.1	101	0.00	10.20
54	P	bromodichloromethane	0.378	0.394	-4.2	103	0.00	10.32
55	P	Methylcyclohexane	0.435	0.499	-14.7	111	0.00	10.78
----- Amount Calc. %Drift -----								
56	P	2-chloroethyl vinyl ether	50.000	53.142	-6.3	135	0.00	10.70
----- AvgRF CCRF %Dev -----								
57	P	methyl methacrylate	0.085	0.099	-16.5	116	0.00	10.41
----- Amount Calc. %Drift -----								
58	P	1,4-dioxane	250.000	164.626	34.1#	67	0.00	10.45
----- AvgRF CCRF %Dev -----								
59	P	cis-1,3-dichloropropene	0.318	0.325	-2.2	106	0.00	10.94
60	S	toluene-d8 (s)	0.839	0.869	-3.6	108	0.00	11.64
61	P	4-methyl-2-pentanone	0.281	0.274	2.5	102	0.00	11.04
62	P	toluene	0.522	0.542	-3.8	107	0.00	11.71
63	P	trans-1,3-dichloropropene	0.233	0.262	-12.4	121	0.00	11.36
64	P	1,1,2-trichloroethane	0.142	0.141	0.7	105	0.00	11.53
65	P	ethyl methacrylate	0.190	0.189	0.5	114	0.00	11.74
66	I	chlorobenzene-d5	1.000	1.000	0.0	105	0.00	13.10
67	P	tetrachloroethene	0.733	0.771	-5.2	104	0.00	12.45
68	P	1,3-dichloropropane	0.671	0.683	-1.8	110	0.00	11.76
69	P	dibromochloromethane	0.794	0.828	-4.3	109	0.00	12.05
70	P	1,2-dibromoethane	0.558	0.560	-0.4	112	0.00	12.31
71	P	2-hexanone	0.568	0.459	19.2	90	0.00	11.91
72	P	chlorobenzene	1.797	1.851	-3.0	110	0.00	13.13
73	P	1,1,1,2-tetrachloroethane	1.032	1.070	-3.7	103	0.00	13.05
74	P	ethylbenzene	2.775	2.898	-4.4	107	0.00	13.31
75	P	m,p-xylene	1.179	1.214	-3.0	107	0.00	13.49
76	P	o-xylene	1.364	1.446	-6.0	109	0.00	13.91
77	P	styrene	1.784	1.835	-2.9	111	0.00	13.83
78	P	bromoform	0.541	0.560	-3.5	108	0.00	13.66
79	P	trans-1,4-dichloro-2-bute	0.177	0.195	-10.2	111	0.00	14.06
80	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	103	0.00	15.66
81	P	isopropylbenzene	2.286	2.607	-14.0	112	0.00	14.27
82	S	bromofluorobenzene (s)	0.578	0.571	1.2	108	0.00	14.33
83	P	bromobenzene	0.635	0.643	-1.3	109	0.00	14.56
84	P	1,1,2,2-tetrachloroethane	0.470	0.485	-3.2	110	0.00	13.91
85	P	1,2,3-trichloropropane	0.454	0.466	-2.6	108	0.00	14.06
86	P	n-propylbenzene	2.376	2.558	-7.7	108	0.00	14.71

6.7.2
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Initial Calibration Verification

Page 3 of 3

Job Number: MC32460

Sample: MSU957-ICV957

Account: WSPVAR WSP Environmental & Energy

Lab FileID: U21523.D

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

87 P	2-chlorotoluene	1.574	1.641	-4.3	107	0.00	14.83
88 P	4-chlorotoluene	1.544	1.564	-1.3	107	0.00	14.91
89 P	1,3,5-trimethylbenzene	2.219	2.414	-8.8	105	0.00	14.99
----- Amount Calc. %Drift -----							
90 P	tert-butylbenzene	50.000	48.935	2.1	105	0.00	15.30
----- AvgRF CCRF %Dev -----							
91 P	1,2,4-trimethylbenzene	2.239	2.532	-13.1	110	0.00	15.40
92 P	sec-butylbenzene	2.770	3.134	-13.1	108	0.00	15.52
93 P	1,3-dichlorobenzene	1.372	1.437	-4.7	105	0.00	15.62
94 P	p-isopropyltoluene	2.558	2.836	-10.9	108	0.00	15.69
95 P	1,4-dichlorobenzene	1.389	1.438	-3.5	104	0.00	15.69
96 P	1,2-dichlorobenzene	1.490	1.622	-8.9	106	0.00	16.06
97 P	n-butylbenzene	2.195	2.386	-8.7	107	0.00	16.11
98 P	1,2-dibromo-3-chloropropa	0.153	0.147	3.9	99	0.00	16.54
99 P	1,3,5-trichlorobenzene	1.295	1.458	-12.6	107	0.00	17.35
100 P	1,2,4-trichlorobenzene	1.278	1.460	-14.2	110	0.00	17.89
101 P	hexachlorobutadiene	0.586	0.643	-9.7	108	0.00	18.18
102 P	naphthalene	2.979	3.488	-17.1	109	0.00	18.15
103 P	2-Methylnaphthalene	1.684	4.348	-158.2#	247#	0.00	19.52
104 P	1-Methylnaphthalene	1.366	3.454	-152.9#	240#	0.00	19.77
105 P	1,2,3-trichlorobenzene	1.184	1.375	-16.1	111	0.00	18.36

(#) = Out of Range

SPCC's out = 4 CCC's out = 0

U21516.D U140802W.m

Mon Aug 04 09:57:17 2014

Continuing Calibration Summary

Page 1 of 3

Job Number: MC32460

Sample: MSU957-CC957

Account: WSPVAR WSP Environmental & Energy

Lab FileID: U21528.D

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : D:\msdchem\1\data\U140804\U21528.D

Vial: 3

Acq On : 4 Aug 2014 9:24 am

Operator: garyk

Sample : cc957-50

Inst : MSU

Misc : ms32403,msu957,,,,5,1

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : D:\msdchem\1\methods\U140802W.m (RTE Integrator)

Title : SW-846 Method 8260

Last Update : Mon Aug 04 09:37:40 2014

Response via : Multiple Level Calibration

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

Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	tert butyl alcohol-d9	1.000	1.000	0.0	81	0.00	6.60
2 P	tertiary butyl alcohol	0.077	0.102	-32.5#	99	0.00	6.29
3 P	Ethanol	0.011	0.016#	-45.5#	120	0.00	5.59
4 I	pentafluorobenzene	1.000	1.000	0.0	107	0.00	8.97
5 P	dichlorodifluoromethane	0.765	0.773	-1.0	103	0.00	4.33
6 P	chloromethane	1.298	1.257	3.2	98	0.00	4.55
7 P	vinyl chloride	0.899	0.875	2.7	101	0.00	4.81
8 P	bromomethane	0.499	0.473	5.2	98	0.00	5.28
9 P	chloroethane	0.336	0.333	0.9	101	0.00	5.42
10 P	ethyl ether	0.427	0.429	-0.5	103	0.00	6.29
----- Amount Calc. %Drift -----							
11 P	acetonitrile	50.000	54.808	-9.6	129	0.00	6.07
----- AvgRF CCRF %Dev -----							
12 P	trichlorofluoromethane	1.077	1.042	3.2	100	0.00	6.07
13 P	freon-113	0.534	0.573	-7.3	106	0.00	6.83
14 P	acrolein	0.030	0.035#	-16.7	130	0.00	6.05
15 P	1,1-dichloroethene	0.460	0.454	1.3	104	0.00	6.63
16 P	acetone	0.123	0.126	-2.4	108	-0.01	6.21
17 P	Methyl Acetate	0.466	0.443	4.9	106	0.00	6.82
18 P	methylene chloride	0.506	0.503	0.6	106	0.00	6.78
19 P	methyl tert butyl ether	1.183	1.188	-0.4	107	0.00	7.56
20 P	acrylonitrile	0.223	0.229	-2.7	111	0.00	6.70
21 P	allyl chloride	0.983	0.998	-1.5	104	0.00	6.87
22 P	trans-1,2-dichloroethene	0.533	0.521	2.3	105	0.00	7.47
23 P	iodomethane	1.047	1.044	0.3	103	0.00	6.69
24 P	carbon disulfide	1.360	1.384	-1.8	105	0.00	7.05
25 P	propionitrile	0.048	0.047#	2.1	97	0.00	8.08
26 P	vinyl acetate	0.917	0.967	-5.5	112	0.00	7.82
27 P	chloroprene	0.848	0.887	-4.6	105	0.00	8.08
28 P	di-isopropyl ether	1.958	1.997	-2.0	106	0.00	8.12
29 P	methacrylonitrile	0.297	0.291	2.0	106	0.00	8.24
30 P	2-butanone	0.059	0.063#	-6.8	110	0.00	8.13
31 P	Ethyl Acetate	1.668	1.763	-5.7	109	0.00	8.12
32 P	Hexane	0.805	0.860	-6.8	110	0.00	8.10
33 P	1,1-dichloroethane	1.020	1.023	-0.3	103	0.00	7.72
34 P	tert-butyl ethyl ether	1.599	1.644	-2.8	109	0.00	8.52
35 P	isobutyl alcohol	0.065	0.060	7.7	106	0.00	8.54
36 P	2,2-dichloropropane	0.628	0.695	-10.7	114	0.00	8.58
37 P	cis-1,2-dichloroethene	0.591	0.577	2.4	105	0.00	8.29

Continuing Calibration Summary

Page 2 of 3

Job Number: MC32460

Sample: MSU957-CC957

Account: WSPVAR WSP Environmental & Energy

Lab FileID: U21528.D

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

38 P	bromochloromethane	0.328	0.328	0.0	103	0.00	8.45
39 P	chloroform	0.913	0.931	-2.0	104	0.00	8.49
40 S	dibromofluoromethane (s)	0.546	0.609	-11.5	114	0.00	8.61
41 P	Tetrahydrofuran	0.161	0.156	3.1	108	0.00	8.83
42 P	1,1,1-trichloroethane	0.855	0.879	-2.8	103	0.00	9.24
43 I	1,4-difluorobenzene	1.000	1.000	0.0	106	0.00	9.84
44 P	Cyclohexane	0.612	0.661	-8.0	107	0.00	9.53
45 P	carbon tetrachloride	0.521	0.551	-5.8	106	0.00	9.60
46 P	1,1-dichloropropene	0.358	0.385	-7.5	108	0.00	9.42
47 P	benzene	1.029	1.022	0.7	106	0.00	9.64
48 P	1,2-dichloroethane	0.460	0.458	0.4	104	0.00	9.14
49 P	tert-amyl methyl ether	0.699	0.714	-2.1	109	0.00	9.76
50 P	heptane	0.411	0.459	-11.7	116	0.00	10.12
51 P	trichloroethene	0.314	0.327	-4.1	106	0.00	10.26
52 P	1,2-dichloropropane	0.294	0.295	-0.3	107	0.00	10.23
53 P	dibromomethane	0.185	0.184	0.5	107	0.00	10.20
54 P	bromodichloromethane	0.378	0.391	-3.4	107	0.00	10.31
55 P	Methylcyclohexane	0.435	0.475	-9.2	110	0.00	10.78
----- Amount Calc. %Drift -----							
56 P	2-chloroethyl vinyl ether	50.000	41.360	17.3	108	0.00	10.70
----- AvgRF CCRF %Dev -----							
57 P	methyl methacrylate	0.085	0.084	1.2	104	0.00	10.42
----- Amount Calc. %Drift -----							
58 P	1,4-dioxane	250.000	256.790	-2.7	111	0.00	10.45
----- AvgRF CCRF %Dev -----							
59 P	cis-1,3-dichloropropene	0.318	0.320	-0.6	109	0.00	10.94
60 S	toluene-d8 (s)	0.839	0.914	-8.9	118	0.00	11.64
61 P	4-methyl-2-pentanone	0.281	0.293	-4.3	114	0.00	11.04
62 P	toluene	0.522	0.515	1.3	106	0.00	11.71
63 P	trans-1,3-dichloropropene	0.233	0.220	5.6	106	0.00	11.36
64 P	1,1,2-trichloroethane	0.142	0.132	7.0	103	0.00	11.53
65 P	ethyl methacrylate	0.190	0.172	9.5	108	0.00	11.74
66 I	chlorobenzene-d5	1.000	1.000	0.0	99	0.00	13.10
67 P	tetrachloroethene	0.733	0.833	-13.6	107	0.00	12.45
68 P	1,3-dichloropropane	0.671	0.678	-1.0	104	0.00	11.76
69 P	dibromochloromethane	0.794	0.842	-6.0	105	0.00	12.05
70 P	1,2-dibromoethane	0.558	0.548	1.8	104	0.00	12.31
71 P	2-hexanone	0.568	0.619	-9.0	115	0.00	11.91
72 P	chlorobenzene	1.797	1.847	-2.8	104	0.00	13.13
73 P	1,1,1,2-tetrachloroethane	1.032	1.164	-12.8	107	0.00	13.05
74 P	ethylbenzene	2.775	3.008	-8.4	106	0.00	13.31
75 P	m,p-xylene	1.179	1.246	-5.7	104	0.00	13.49
76 P	o-xylene	1.364	1.490	-9.2	106	0.00	13.91
77 P	styrene	1.784	1.812	-1.6	104	0.00	13.83
78 P	bromoform	0.541	0.586	-8.3	108	0.00	13.66
79 P	trans-1,4-dichloro-2-bute	0.177	0.212	-19.8	114	0.00	14.06
80 I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	101	0.00	15.66
81 P	isopropylbenzene	2.286	2.525	-10.5	106	0.00	14.27
82 S	bromofluorobenzene (s)	0.578	0.616	-6.6	113	0.00	14.33
83 P	bromobenzene	0.635	0.626	1.4	103	0.00	14.56
84 P	1,1,2,2-tetrachloroethane	0.470	0.485	-3.2	107	0.00	13.91
85 P	1,2,3-trichloropropane	0.454	0.484	-6.6	110	0.00	14.06
86 P	n-propylbenzene	2.376	2.547	-7.2	105	0.00	14.71

6.7.3
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Continuing Calibration Summary

Page 3 of 3

Job Number: MC32460

Sample: MSU957-CC957

Account: WSPVAR WSP Environmental & Energy

Lab FileID: U21528.D

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

87 P	2-chlorotoluene	1.574	1.641	-4.3	104	0.00	14.83
88 P	4-chlorotoluene	1.544	1.553	-0.6	104	0.00	14.91
89 P	1,3,5-trimethylbenzene	2.219	2.484	-11.9	105	0.00	14.99
----- Amount Calc. %Drift -----							
90 P	tert-butylbenzene	50.000	50.273	-0.5	106	0.00	15.30
----- AvgRF CCRF %Dev -----							
91 P	1,2,4-trimethylbenzene	2.239	2.458	-9.8	105	0.00	15.40
92 P	sec-butylbenzene	2.770	3.146	-13.6	106	0.00	15.52
93 P	1,3-dichlorobenzene	1.372	1.447	-5.5	103	0.00	15.62
94 P	p-isopropyltoluene	2.558	2.833	-10.8	106	0.00	15.69
95 P	1,4-dichlorobenzene	1.389	1.441	-3.7	102	0.00	15.69
96 P	1,2-dichlorobenzene	1.490	1.606	-7.8	103	0.00	16.06
97 P	n-butylbenzene	2.195	2.428	-10.6	106	0.00	16.11
98 P	1,2-dibromo-3-chloropropa	0.153	0.161	-5.2	106	0.00	16.54
99 P	1,3,5-trichlorobenzene	1.295	1.453	-12.2	104	0.00	17.35
100 P	1,2,4-trichlorobenzene	1.278	1.417	-10.9	104	0.00	17.89
101 P	hexachlorobutadiene	0.586	0.656	-11.9	107	0.00	18.18
102 P	naphthalene	2.979	3.364	-12.9	102	0.00	18.16
103 P	2-Methylnaphthalene	1.684	1.749	-3.9	97	0.00	19.52
104 P	1-Methylnaphthalene	1.366	1.428	-4.5	97	0.00	19.77
105 P	1,2,3-trichlorobenzene	1.184	1.292	-9.1	102	0.00	18.36

(#) = Out of Range

U21516.D U140802W.m

SPCC's out = 4 CCC's out = 0

Mon Aug 04 12:11:13 2014

Initial Calibration Summary

Page 1 of 6

Job Number: MC32460

Sample: MSV1226-ICC1226

Account: WSPVAR WSP Environmental & Energy

Lab FileID: V33448.D

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Response Factor Report MSV												
Method : C:\msdchem\1\METHODS\140801w.m (RTE Integrator)												
Title : SW-846 Method 8260												
Last Update : Fri Aug 01 17:44:41 2014												
Response via : Initial Calibration												
Calibration Files												
2	=v33444.D	0.5	=v33442.D	1	=v33443.D	25	=v33447.D					
5	=v33445.D	10	=v33446.D	50	=v33448.D	100	=v33449.D					
200	=v33451.D	400	=v33452.D		=		=					
Compound												
	2	0.5	1	25	5	10	50	100	200	400	Avg	%RSD

1) I tert butyl alcohol-d9 -----ISTD-----												
2) tertiary butyl alcohol												
				0.814	0.684	0.775	0.841	0.898	0.902	0.981	0.842	11.52
3) Ethanol												
				0.076	0.105	0.092	0.077	0.071	0.064	0.057	0.077	21.16
---- Linear regression ---- Coefficient = 0.9913												
Response Ratio = 0.06308 + 0.06044 *A												
4) I pentafluorobenzene -----ISTD-----												
5) dichlorodifluoromethane												
	1.922		2.228	2.272	2.469	2.521	2.126	1.802	1.033		2.047	23.33
---- Quadratic regression ---- Coefficient = 0.9993												
Response Ratio = -0.01018 + 2.53299 *A + -0.37355 *A^2												
6) chloromethane												
	1.104		1.239	1.311	1.377	1.462	1.257	1.096	0.671		1.189	20.51
---- Quadratic regression ---- Coefficient = 0.9997												
Response Ratio = -0.01562 + 1.50371 *A + -0.20701 *A^2												
7) vinyl chloride												
	0.882		1.294	1.301	1.366	1.506	1.249	1.093	0.665		1.170	23.64
---- Quadratic regression ---- Coefficient = 0.9980												
Response Ratio = -0.00933 + 1.47695 *A + -0.20147 *A^2												
8) bromomethane												
	0.725		0.738	0.800	0.862	0.941	0.775	0.672	0.415		0.741	21.05
---- Quadratic regression ---- Coefficient = 0.9990												
Response Ratio = -0.00407 + 0.90942 *A + -0.12287 *A^2												
9) chloroethane												
	0.360		0.486	0.468	0.522	0.550	0.443	0.393	0.252		0.434	22.23
---- Quadratic regression ---- Coefficient = 0.9982												
Response Ratio = -0.00186 + 0.52196 *A + -0.06707 *A^2												
10) ethyl ether												
	0.439		0.413	0.500	0.484	0.486	0.406	0.381	0.232		0.418	20.71
---- Quadratic regression ---- Coefficient = 0.9981												
Response Ratio = -0.00331 + 0.51319 *A + -0.06998 *A^2												
11) acetonitrile												
	1.123		1.163	1.130	1.032	1.019	1.079	1.058	0.788	0.761	1.017	14.28
12) trichlorofluoromethane												
	1.135		1.889	1.946	2.066	2.205	1.841	1.629	1.032		1.718	24.82

Initial Calibration Summary

Job Number: MC32460

Sample: MSV1226-ICC1226

Account: WSPVAR WSP Environmental & Energy

Lab FileID: V33448.D

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

---- Quadratic regression ---- Coefficient = 0.9978
Response Ratio = -0.01521 + 2.17492 *A + -0.28369 *A^2

13) freon-113

0.979 0.764 0.649 0.941 0.853 0.599 0.797 19.36

---- Quadratic regression ---- Coefficient = 0.9996
Response Ratio = -0.06228 + 1.14654 *A + -0.13292 *A^2

14) acrolein

0.035 0.054 0.054 0.063 0.053 0.049 0.034 0.049# 21.29

---- Quadratic regression ---- Coefficient = 0.9984
Response Ratio = -0.00446 + 0.06220 *A + -0.00136 *A^2

15) 1,1-dichloroethene

0.611 0.575 0.717 0.668 0.586 0.664 0.619 0.447 0.441 0.592 15.99

16) acetone

0.093 0.077 0.093 0.084 0.062 0.049 0.076# 23.10

---- Quadratic regression ---- Coefficient = 0.9914
Response Ratio = 0.00003 + 0.09022 *A + -0.00530 *A^2

17) Methyl Acetate

0.337 0.295 0.307 0.309 0.288 0.280 0.199 0.202 0.277 18.13

18) methylene chloride

0.821 0.712 0.707 0.715 0.717 0.661 0.630 0.480 0.486 0.659 17.04

19) methyl tert butyl ether

1.367 1.241 1.146 1.174 1.160 1.155 1.158 0.951 1.026 1.153 10.22

20) acrylonitrile

0.167 0.139 0.156 0.163 0.161 0.122 0.125 0.148 12.62

21) allyl chloride

1.123 1.163 1.130 1.032 1.019 1.078 1.058 0.788 0.761 1.017 14.28

22) trans-1,2-dichloroethene

0.605 0.561 0.651 0.614 0.598 0.610 0.593 0.480 0.480 0.577 10.34

23) iodomethane

1.916 1.816 1.742 1.761 1.726 1.660 1.570 1.143 1.157 1.610 17.25

24) carbon disulfide

1.501 1.584 2.025 1.622 1.576 2.038 2.016 1.524 1.574 1.718 13.63

25) propionitrile

0.034 0.007 0.039 0.043 0.040 0.042 0.034# 40.02

---- Linear regression ---- Coefficient = 0.9982
Response Ratio = -0.00607 + 0.04319 *A

26) vinyl acetate

1.620 1.426 1.383 1.384 1.476 1.524 1.288 1.303 1.426 7.84

27) chloroprene

0.706 0.899 0.777 0.719 0.855 0.859 0.716 0.707 0.780 10.25

28) di-isopropyl ether

2.158 1.923 1.938 1.872 1.873 1.946 1.953 1.594 1.602 1.873 9.45

29) methacrylonitrile

0.195 0.160 0.191 0.199 0.205 0.188 0.196 0.190 7.68

30) 2-butanone

0.036 0.020 0.042 0.044 0.042 0.038 0.037# 23.98

---- Linear regression ---- Coefficient = 0.9937
Response Ratio = -0.00255 + 0.04054 *A

31) Hexane

0.350 0.614 0.516 0.440 0.582 0.555 0.444 0.422 0.490 18.49

32) 1,1-dichloroethane

1.182 1.074 1.148 1.118 1.096 1.104 1.095 0.935 0.951 1.078 7.70

33) tert-butyl ethyl ether

1.358 1.122 1.217 1.167 1.168 1.251 1.287 1.210 1.300 1.231 6.10

Initial Calibration Summary

Job Number: MC32460

Sample: MSV1226-ICC1226

Account: WSPVAR WSP Environmental & Energy

Lab FileID: V33448.D

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

34)	isobutyl alcohol	0.324	0.302	0.285	0.277	0.277	0.295	0.305	0.258	0.261	0.287	7.54
35)	2,2-dichloropropane		0.626	0.507	0.482	0.673	0.727	0.729	0.737	0.640		16.75
36)	cis-1,2-dichloroethene	0.567	0.477	0.533	0.538	0.513	0.522	0.526	0.497	0.514	0.521	4.91
37)	ethyl acetate	1.620		1.426	1.383	1.384	1.476	1.524	1.286	1.301	1.425	7.89
38)	bromochloromethane	0.226		0.257	0.236	0.252	0.256	0.263	0.251	0.269	0.251	5.57
39)	chloroform	1.012	0.928	0.944	0.941	0.918	0.925	0.953	0.911	0.950	0.942	3.16
40)	dibromofluoromethane (s)		0.524	0.473	0.524	0.528	0.550	0.534	0.584	0.531		6.27
41)	Tetrahydrofuran		0.066	0.008	0.058	0.071	0.074	0.069	0.072	0.060		38.92
	---- Linear regression ----											
	Response Ratio =											
42)	1,1,1-trichloroethane	0.674	0.921	0.655	0.863	0.729	0.689	0.887	0.929	0.913	0.986	15.03
43)	I 1,4-difluorobenzene	-----ISTD-----										
44)	Cyclohexane		0.769	0.752	0.566	0.736	0.716	0.637	0.655	0.690		10.64
45)	carbon tetrachloride	0.424		0.655	0.485	0.458	0.673	0.719	0.663	0.703	0.597	20.14
	---- Linear regression ----											
	Response Ratio =											
46)	1,1-dichloropropene	0.370	0.388	0.502	0.436	0.395	0.476	0.494	0.460	0.461	0.442	10.89
47)	benzene	1.360	2.580	1.447	1.202	1.204	1.129	1.158	1.193	1.146	1.188	32.33
	---- Linear regression ----											
	Response Ratio =											
48)	1,2-dichloroethane	0.548	0.470	0.521	0.520	0.501	0.508	0.526	0.477	0.488	0.506	4.95
49)	tert-amyl methyl ether	0.556	0.470	0.525	0.494	0.493	0.537	0.586	0.603	0.664	0.547	11.31
50)	heptane	0.263	0.326	0.417	0.330	0.305	0.405	0.411	0.379	0.362	0.355	14.94
51)	trichloroethene	0.356	0.515	0.292	0.357	0.340	0.313	0.342	0.361	0.363	0.375	16.47
52)	1,2-dichloropropane	0.349	0.265	0.331	0.328	0.310	0.331	0.347	0.351	0.363	0.331	8.81
53)	dibromomethane	0.153	0.174	0.169	0.165	0.172	0.183	0.183	0.194	0.174		7.22
54)	bromodichloromethane	0.342	0.265	0.359	0.312	0.312	0.371	0.414	0.436	0.468	0.364	17.97
55)	Methylcyclohexane		0.478	0.369	0.327	0.466	0.477	0.473	0.500	0.441		14.87
56)	2-chloroethyl vinyl ether		0.084	0.070	0.081	0.089	0.097	0.101	0.117	0.091		16.76
57)	methyl methacrylate		0.089	0.067	0.072	0.094	0.108	0.117	0.128	0.096		23.47
	---- Linear regression ----											
	Response Ratio =											

Job Number: MC32460

Sample: MSV1226-ICC1226

Account: WSPVAR WSP Environmental & Energy

Lab FileID: V33448.D

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

58)	1,4-dioxane											0.000#	-1.00
59)	cis-1,3-dichloropropene	0.272	0.359	0.233	0.322	0.261	0.277	0.336	0.384	0.424		0.319	19.79
	---- Quadratic regression ----	Coefficient = 0.9990											
	Response Ratio =	-0.00084 + 0.31152 *A + 0.02895 *A^2											
60)	toluene-d8 (s)												
				0.948	0.861	0.941	0.945	0.999	1.058	1.180		0.990	10.41
61)	4-methyl-2-pentanone	0.159		0.174	0.160	0.164	0.193	0.203	0.209	0.217		0.185	12.79
62)	toluene	0.652		0.630	0.630	0.627	0.597	0.623	0.663	0.740	0.784	0.661	9.27
63)	trans-1,3-dichloropropene	0.167	0.229	0.115	0.218	0.170	0.176	0.237	0.280	0.330	0.370	0.229	34.46
	---- Quadratic regression ----	Coefficient = 0.9975											
	Response Ratio =	-0.00210 + 0.24373 *A + 0.01643 *A^2											
64)	1,1,2-trichloroethane	0.159		0.110	0.149	0.148	0.147	0.155	0.165	0.180	0.201	0.157	15.88
65)	ethyl methacrylate			0.178	0.134	0.144	0.199	0.223	0.256	0.287		0.203	27.81
	---- Quadratic regression ----	Coefficient = 0.9993											
	Response Ratio =	-0.01103 + 0.21021 *A + 0.00997 *A^2											
66) I	chlorobenzene-d5	-----ISTD-----											
67)	tetrachloroethene	0.724	1.212	0.739	0.870	0.772	0.700	0.856	0.912	0.951	0.965	0.870	17.62
68)	1,3-dichloropropane	0.852		0.667	0.756	0.772	0.724	0.766	0.816	0.824	0.847	0.780	7.80
69)	dibromochloromethane	0.419	0.397	0.274	0.541	0.447	0.453	0.602	0.706	0.758	0.817	0.541	32.42
	---- Quadratic regression ----	Coefficient = 0.9978											
	Response Ratio =	-0.00642 + 0.62622 *A + 0.02505 *A^2											
70)	1,2-dibromoethane	0.492		0.354	0.484	0.449	0.449	0.503	0.536	0.544	0.573	0.487	13.38
71)	2-hexanone	0.325		0.450	0.370	0.395	0.501	0.507	0.531	0.412		0.436	16.76
72)	chlorobenzene	2.074		1.914	1.893	1.896	1.812	1.862	1.934	1.986	1.991	1.929	4.05
73)	1,1,1,2-tetrachloroethane	0.625		0.414	0.751	0.633	0.655	0.827	0.916	0.973	0.982	0.753	25.23
	---- Linear regression ----	Coefficient = 0.9963											
	Response Ratio =	-0.01963 + 0.95766 *A											
74)	ethylbenzene	3.324	5.282	3.107	3.295	3.151	3.037	3.279	3.493	3.636	3.460	3.506	18.55
75)	m,p-xylene	1.272	1.989	1.156	1.264	1.177	1.160	1.256	1.375	1.446	1.374	1.347	18.26
76)	o-xylene	1.300	1.723	1.156	1.259	1.222	1.157	1.288	1.422	1.497	1.473	1.350	13.23
77)	styrene	1.923		1.656	1.928	1.868	1.810	1.942	2.153	2.313	2.236	1.981	10.72
78)	bromoform			0.251	0.170	0.205	0.289	0.376	0.436	0.465		0.313	36.61
	---- Quadratic regression ----	Coefficient = 0.9967											
	Response Ratio =	-0.02800 + 0.35477 *A + 0.01497 *A^2											

6.7.4

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Initial Calibration Summary

Job Number: MC32460

Sample: MSV1226-ICC1226

Account: WSPVAR WSP Environmental & Energy

Lab FileID: V33448.D

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

79)	trans-1,4-dichloro-2-butene	0.142	0.110	0.126	0.158	0.191	0.202	0.200	0.161	23.00
	---- Linear regression ----	Coefficient = 0.9969								
		Response Ratio = -0.01428 + 0.19993 *A								
80)	I 1,4-dichlorobenzene-d -----ISTD-----									
81)	isopropylbenzene	2.862	2.868	3.199	2.879	2.812	3.248	2.870	3.175	7.14
82)	bromofluorobenzene (s)	0.877	0.845	0.900	0.881	0.782	0.840	0.929	0.865	5.50
83)	bromobenzene	0.836	0.804	0.811	0.807	0.770	0.802	0.713	0.789	4.95
84)	1,1,2,2-tetrachloroethane	0.472	0.664	0.350	0.475	0.472	0.469	0.506	0.451	15.91
85)	1,2,3-trichloropropane	0.445	0.564	0.413	0.414	0.585	0.548	0.605	0.665	17.90
86)	n-propylbenzene	3.320	3.317	3.633	3.345	3.173	3.605	3.241	3.585	5.58
87)	2-chlorotoluene	2.393	2.217	2.250	2.202	2.096	2.225	2.037	2.222	4.71
88)	4-chlorotoluene	2.636	2.563	2.599	2.520	2.422	2.532	2.401	2.517	3.02
89)	1,3,5-trimethylbenzene	2.641	2.619	2.850	2.683	2.554	2.890	2.763	3.000	6.52
90)	tert-butylbenzene	1.223	1.229	1.490	1.280	1.244	1.512	1.482	1.629	12.68
91)	1,2,4-trimethylbenzene	2.838	2.619	2.830	2.689	2.595	2.879	2.792	2.973	5.30
92)	sec-butylbenzene	2.603	2.687	3.246	2.850	2.688	3.301	3.286	3.506	12.29
93)	1,3-dichlorobenzene	1.746	1.704	1.536	1.557	1.494	1.530	1.528	1.598	5.41
94)	p-isopropyltoluene	2.463	2.462	2.931	2.595	2.535	2.979	3.083	3.160	10.98
95)	1,4-dichlorobenzene	1.763	1.698	1.567	1.581	1.506	1.539	1.613	1.584	4.93
96)	1,2-dichlorobenzene	1.720	1.532	1.449	1.487	1.417	1.464	1.538	1.475	5.82
97)	n-butylbenzene	2.108	2.209	2.487	2.190	2.075	2.476	2.546	2.526	8.26
98)	1,2-dibromo-3-chloropropane	0.052	0.015	0.046	0.062	0.071	0.071	0.085	0.057	39.99
	---- Linear regression ----	Coefficient = 0.9912								
		Response Ratio = -0.00842 + 0.08010 *A								
99)	1,3,5-trichlorobenzene	1.169	1.166	1.088	1.097	1.042	1.097	1.113	1.143	5.07
100)	1,2,4-trichlorobenzene	0.975	0.799	0.855	0.833	0.846	0.892	0.875	0.914	8.56
101)	hexachlorobutadiene	0.346	0.350	0.310	0.344	0.341	0.391	0.430	0.359	10.93
102)	naphthalene	1.171	0.956	1.174	1.050	1.120	1.331	1.371	1.398	19.13
103)	1,2,3-trichlorobenzene	0.721	0.663	0.674	0.677	0.660	0.723	0.725	0.750	10.83
104)	2-Methylnaphthalene	0.328	0.279	0.465	0.505	0.508	0.733	0.470		34.12
	---- Quadratic regression ----	Coefficient = 0.9970								
		Response Ratio = -0.00972 + 0.38695 *A + 0.08513 *A^2								

Initial Calibration Summary

Job Number: MC32460

Account: WSPVAR WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Sample: MSV1226-ICC1226

Lab FileID: V33448.D

105) 1-Methylnaphthalene

0.296	0.254	0.388	0.399	0.373	0.531	0.373	25.61

---- Quadratic regression ---- Coefficient = 0.9949

Response Ratio = -0.00251 + 0.31140 *A + 0.05302 *A^2

(#) = Out of Range ### Number of calibration levels exceeded format ###

v140801w.m Mon Aug 04 12:45:54 2014

6.7.4
6

Initial Calibration Verification

Page 1 of 4

Job Number: MC32460

Sample: MSV1226-ICV1226

Account: WSPVAR WSP Environmental & Energy

Lab FileID: V33457.D

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\V140801\v33457.D Vial: 19
 Acq On : 1 Aug 2014 5:26 pm Operator: amym
 Sample : cc1226-50 Inst : MSV
 Misc : MS32359,MSV1226,,,,5,1 Multiplr: 1.00
 MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\v140801w.m (RTE Integrator)
 Title : SW-846 Method 8260
 Last Update : Fri Aug 01 17:44:41 2014
 Response via : Multiple Level Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	tert butyl alcohol-d9	1.000	1.000	0.0	42#	0.00	3.50
2 p	tertiary butyl alcohol	0.842	0.615	27.0#	31#	0.00	3.61
----- Amount Calc. %Drift -----							
3 p	Ethanol	5000.000	7981.456	-59.6#	57	0.00	2.48
----- AvgRF CCRF %Dev -----							
4 I	pentafluorobenzene	1.000	1.000	0.0	63	0.00	6.54
----- Amount Calc. %Drift -----							
5 p	dichlorodifluoromethane	50.000	39.792	20.4#	52	0.00	1.49
6 P	chloromethane	50.000	42.226	15.5	56	0.00	1.61
7 p	vinyl chloride	50.000	40.703	18.6	54	0.00	1.72
8 p	bromomethane	50.000	42.441	15.1	55	0.00	2.00
9 p	chloroethane	50.000	50.731	-1.5	65	0.00	2.10
10 p	ethyl ether	50.000	42.350	15.3	59	0.00	2.59
----- AvgRF CCRF %Dev -----							
11 p	acetonitrile	1.017	1.103	-8.5	64	0.00	3.28
----- Amount Calc. %Drift -----							
12 p	trichlorofluoromethane	50.000	38.492	23.0#	51	0.00	2.33
13 p	freon-113	50.000	46.652	6.7	60	0.00	2.89
14 p	acrolein	250.000	188.342	24.7#	50	0.00	2.74
----- AvgRF CCRF %Dev -----							
15 p	1,1-dichloroethene	0.592	0.685	-15.7	65	0.00	2.85
----- Amount Calc. %Drift -----							
16 p	acetone	50.000	41.166	17.7	48	0.00	2.89
----- AvgRF CCRF %Dev -----							
17 p	Methyl Acetate	0.277	0.331	-19.5	73	0.00	3.26
18 p	methylene chloride	0.659	0.661	-0.3	63	0.00	3.44
19 p	methyl tert butyl ether	1.153	1.144	0.8	62	0.00	3.82
20 p	acrylonitrile	0.148	0.156	-5.4	60	0.00	3.76
21 p	allyl chloride	1.017	1.103	-8.5	65	0.00	3.28
22 p	trans-1,2-dichloroethene	0.577	0.621	-7.6	64	0.00	3.82
23 p	iodomethane	1.610	1.666	-3.5	63	0.00	3.02
24 p	carbon disulfide	1.718	2.255	-31.3#	70	0.00	3.10

6.7.5

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Initial Calibration Verification

Job Number: MC32460

Sample: MSV1226-ICV1226

Account: WSPVAR WSP Environmental & Energy

Lab FileID: V33457.D

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

		Amount	Calc.	%Drift			
25 p	propionitrile	50.000	52.450	-4.9	63	0.00	5.62
		AvgRF	CCRF	%Dev			
26 p	vinyl acetate	1.426	1.324	7.2	57	0.00	4.56
27 p	chloroprene	0.780	1.047	-34.2#	77	0.00	4.60
28 p	di-isopropyl ether	1.873	1.929	-3.0	63	0.00	4.59
29 p	methacrylonitrile	0.190	0.198	-4.2	63	0.00	5.90
		Amount	Calc.	%Drift			
30 p	2-butanone	50.000	44.827	10.3	51	0.00	5.51
		AvgRF	CCRF	%Dev			
31 p	Hexane	0.490	0.570	-16.3	62	0.00	4.23
32 P	1,1-dichloroethane	1.078	1.128	-4.6	64	0.00	4.49
33 p	tert-butyl ethyl ether	1.231	1.327	-7.8	67	0.00	5.25
34 p	isobutyl alcohol	0.287	0.265	7.7	57	0.00	4.56
35 p	2,2-dichloropropane	0.640	0.686	-7.2	64	0.00	5.53
36 p	cis-1,2-dichloroethene	0.521	0.534	-2.5	65	0.00	5.51
37 p	ethyl acetate	1.425	1.324	7.1	57	0.00	4.56
38 p	bromochloromethane	0.251	0.265	-5.6	65	0.00	5.93
39 p	chloroform	0.942	0.921	2.2	63	0.00	6.15
40 S	dibromofluoromethane (s)	0.531	0.524	1.3	63	0.00	6.42
		Amount	Calc.	%Drift			
41 p	Tetrahydrofuran	50.000	49.975	0.0	60	0.00	5.94
		AvgRF	CCRF	%Dev			
42 p	1,1,1-trichloroethane	0.825	0.877	-6.3	62	0.00	6.40
43 I	1,4-difluorobenzene	1.000	1.000	0.0	64	0.00	7.73
44 p	Cyclohexane	0.690	0.759	-10.0	66	0.00	6.50
		Amount	Calc.	%Drift			
45 p	carbon tetrachloride	50.000	48.091	3.8	62	0.00	6.65
		AvgRF	CCRF	%Dev			
46 p	1,1-dichloropropene	0.442	0.464	-5.0	63	0.00	6.67
		Amount	Calc.	%Drift			
47 p	benzene	50.000	51.623	-3.2	68	0.00	6.98
		AvgRF	CCRF	%Dev			
48 p	1,2-dichloroethane	0.506	0.489	3.4	62	0.00	7.11
49 p	tert-amyl methyl ether	0.547	0.619	-13.2	74	0.00	7.27
50 p	heptane	0.355	0.395	-11.3	63	0.00	7.55
51 p	trichloroethene	0.361	0.353	2.2	66	0.00	8.02
52 p	1,2-dichloropropane	0.331	0.342	-3.3	67	0.00	8.37
53 p	dibromomethane	0.174	0.177	-1.7	66	0.00	8.47
54 p	bromodichloromethane	0.364	0.407	-11.8	71	0.00	8.73
55 p	Methylcyclohexane	0.441	0.502	-13.8	69	0.00	8.32
56 p	2-chloroethyl vinyl ether	0.091	0.091	0.0	66	0.00	9.10
		Amount	Calc.	%Drift			
57 p	methyl methacrylate	50.000	47.270	5.5	73	0.00	8.50
		AvgRF	CCRF	%Dev			
58 p	1,4-dioxane	0.000	0.004#	0.0	0#	-0.06	8.42
		Amount	Calc.	%Drift			

Initial Calibration Verification

Job Number: MC32460

Sample: MSV1226-ICV1226

Account: WSPVAR WSP Environmental & Energy

Lab FileID: V33457.D

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

59 p	cis-1,3-dichloropropene	50.000	53.536	-7.1	70	0.00	9.25
----- AvgRF CCRF %Dev -----							
60 S	toluene-d8 (s)	0.990	1.002	-1.2	68	0.00	9.54
61 p	4-methyl-2-pentanone	0.185	0.185	0.0	62	0.00	9.44
62 p	toluene	0.661	0.674	-2.0	70	0.00	9.62
----- Amount Calc. %Drift -----							
63 p	trans-1,3-dichloropropene	50.000	52.779	-5.6	74	0.00	9.91
----- AvgRF CCRF %Dev -----							
64 p	1,1,2-trichloroethane	0.157	0.158	-0.6	65	0.00	10.11
----- Amount Calc. %Drift -----							
65 p	ethyl methacrylate	50.000	48.848	2.3	66	0.00	9.99
----- AvgRF CCRF %Dev -----							
66 I	chlorobenzene-d5	1.000	1.000	0.0	66	0.00	11.07
67 p	tetrachloroethene	0.870	0.894	-2.8	69	0.00	10.17
68 p	1,3-dichloropropane	0.780	0.776	0.5	67	0.00	10.27
----- Amount Calc. %Drift -----							
69 p	dibromochloromethane	50.000	50.086	-0.2	71	0.00	10.49
----- AvgRF CCRF %Dev -----							
70 p	1,2-dibromoethane	0.487	0.510	-4.7	67	0.00	10.60
71 p	2-hexanone	0.436	0.375	14.0	50#	0.00	10.35
72 P	chlorobenzene	1.929	1.981	-2.7	71	0.00	11.10
----- Amount Calc. %Drift -----							
73 p	1,1,1,2-tetrachloroethane	50.000	44.348	11.3	67	0.00	11.20
----- AvgRF CCRF %Dev -----							
74 p	ethylbenzene	3.506	3.448	1.7	70	0.00	11.20
75 p	m,p-xylene	1.347	1.341	0.4	71	0.00	11.34
76 p	o-xylene	1.350	1.370	-1.5	71	0.00	11.70
77 p	styrene	1.981	2.121	-7.1	72	0.00	11.72
----- Amount Calc. %Drift -----							
78 P	bromoform	50.000	46.184	7.6	72	0.00	11.90
79 p	trans-1,4-dichloro-2-bute	50.000	40.899	18.2	63	0.00	12.11
----- AvgRF CCRF %Dev -----							
80 I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	68	0.00	13.28
81 p	isopropylbenzene	3.033	3.458	-14.0	72	0.00	12.05
82 S	bromofluorobenzene (s)	0.865	0.876	-1.3	68	0.00	12.22
83 p	bromobenzene	0.798	0.831	-4.1	71	0.00	12.34
84 P	1,1,2,2-tetrachloroethane	0.486	0.503	-3.5	68	0.00	12.35
85 p	1,2,3-trichloropropane	0.530	0.574	-8.3	67	0.00	12.39
86 p	n-propylbenzene	3.434	3.784	-10.2	71	0.00	12.44
87 p	2-chlorotoluene	2.216	2.286	-3.2	70	0.00	12.52
88 p	4-chlorotoluene	2.527	2.570	-1.7	69	0.00	12.63
89 p	1,3,5-trimethylbenzene	2.787	2.890	-3.7	68	0.00	12.61
90 p	tert-butylbenzene	1.420	1.536	-8.2	69	0.00	12.90
91 p	1,2,4-trimethylbenzene	2.804	3.020	-7.7	71	0.00	12.95
92 p	sec-butylbenzene	3.084	3.400	-10.2	70	0.00	13.10
93 p	1,3-dichlorobenzene	1.591	1.597	-0.4	71	0.00	13.21
94 p	p-isopropyltoluene	2.826	3.084	-9.1	70	0.00	13.24

Initial Calibration Verification

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Job Number: MC32460

Sample: MSV1226-ICV1226

Account: WSPVAR WSP Environmental & Energy

Lab FileID: V33457.D

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

95 p	1,4-dichlorobenzene	1.608	1.596	0.7	71	0.00	13.30
96 p	1,2-dichlorobenzene	1.510	1.519	-0.6	71	0.00	13.62
97 p	n-butylbenzene	2.344	2.579	-10.0	71	0.00	13.61
----- Amount Calc. %Drift -----							
98 p	1,2-dibromo-3-chloropropa	50.000	42.493	15.0	66	0.00	14.32
----- AvgRF CCRF %Dev -----							
99 p	1,3,5-trichlorobenzene	1.128	1.163	-3.1	72	0.00	14.49
100 p	1,2,4-trichlorobenzene	0.893	0.914	-2.4	70	0.00	15.04
101 p	hexachlorobutadiene	0.359	0.355	1.1	70	0.00	15.16
102 p	naphthalene	1.260	1.312	-4.1	67	0.00	15.28
103 p	1,2,3-trichlorobenzene	0.723	0.723	0.0	68	0.00	15.47
----- Amount Calc. %Drift -----							
104 p	2-Methylnaphthalene	25.000	53.038	-112.2#	145	0.00	16.27
105 p	1-Methylnaphthalene	25.000	52.925	-111.7#	136	0.00	16.44

(#) = Out of Range

v33448.D v140801w.m

SPCC's out = 1 CCC's out = 0

Mon Aug 04 12:49:13 2014

6.7.5

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Continuing Calibration Summary

Page 1 of 4

Job Number: MC32460

Sample: MSV1230-CC1226

Account: WSPVAR WSP Environmental & Energy

Lab FileID: V33571.D

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\V140806\v33571.D Vial: 2
 Acq On : 6 Aug 2014 8:48 am Operator: amym
 Sample : cc1226-50 Inst : MSV
 Misc : MS32437,MSV1230,,,,5,1 Multiplr: 1.00
 MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\v140801w.m (RTE Integrator)
 Title : SW-846 Method 8260
 Last Update : Fri Aug 01 17:44:41 2014
 Response via : Multiple Level Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	tert butyl alcohol-d9	1.000	1.000	0.0	53	0.02	3.52
2 p	tertiary butyl alcohol	0.842	1.313	-55.9#	83	0.02	3.63
----- Amount Calc. %Drift -----							
3 p	Ethanol	5000.000	14217.639	-184.4#	124	0.02	2.50
----- AvgRF CCRF %Dev -----							
4 I	pentafluorobenzene	1.000	1.000	0.0	84	0.03	6.57
----- Amount Calc. %Drift -----							
5 p	dichlorodifluoromethane	50.000	35.509	29.0#	63	0.01	1.50
6 P	chloromethane	50.000	42.306	15.4	74	0.01	1.61
7 p	vinyl chloride	50.000	41.496	17.0	72	0.02	1.73
8 p	bromomethane	50.000	42.760	14.5	74	0.02	2.01
9 p	chloroethane	50.000	44.692	10.6	78	0.02	2.11
10 p	ethyl ether	50.000	45.863	8.3	84	0.02	2.61
----- AvgRF CCRF %Dev -----							
11 p	acetonitrile	1.017	1.101	-8.3	86	0.03	3.30
----- Amount Calc. %Drift -----							
12 p	trichlorofluoromethane	50.000	48.639	2.7	83	0.02	2.35
13 p	freon-113	50.000	41.325	17.3	71	0.02	2.91
14 p	acrolein	250.000	253.641	-1.5	87	0.02	2.76
----- AvgRF CCRF %Dev -----							
15 p	1,1-dichloroethene	0.592	0.546	7.8	69	0.03	2.87
----- Amount Calc. %Drift -----							
16 p	acetone	50.000	39.433	21.1#	61	0.02	2.91
----- AvgRF CCRF %Dev -----							
17 p	Methyl Acetate	0.277	0.303	-9.4	88	0.02	3.28
18 p	methylene chloride	0.659	0.612	7.1	78	0.03	3.47
19 p	methyl tert butyl ether	1.153	1.110	3.7	81	0.03	3.84
20 p	acrylonitrile	0.148	0.176	-18.9	91	0.03	3.78
21 p	allyl chloride	1.017	1.101	-8.3	86	0.03	3.30
22 p	trans-1,2-dichloroethene	0.577	0.579	-0.3	80	0.03	3.84
23 p	iodomethane	1.610	1.353	16.0	68	0.03	3.03
24 p	carbon disulfide	1.718	1.712	0.3	70	0.03	3.12

Continuing Calibration Summary

Page 2 of 4

Job Number: MC32460

Sample: MSV1230-CC1226

Account: WSPVAR WSP Environmental & Energy

Lab FileID: V33571.D

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

		Amount	Calc.	%Drift			
25 p	propionitrile	50.000	61.323	-22.6#	100	0.03	5.65
		AvgRF	CCRF	%Dev			
26 p	vinyl acetate	1.426	1.716	-20.3#	97	0.03	4.59
27 p	chloroprene	0.780	0.974	-24.9#	95	0.03	4.63
28 p	di-isopropyl ether	1.873	2.253	-20.3#	97	0.03	4.61
29 p	methacrylonitrile	0.190	0.240	-26.3#	101	0.03	5.92
		Amount	Calc.	%Drift			
30 p	2-butanone	50.000	50.730	-1.5	78	0.03	5.54
		AvgRF	CCRF	%Dev			
31 p	Hexane	0.490	0.580	-18.4	84	0.03	4.26
32 P	1,1-dichloroethane	1.078	1.175	-9.0	89	0.03	4.52
33 p	tert-butyl ethyl ether	1.231	1.319	-7.1	88	0.03	5.28
34 p	isobutyl alcohol	0.287	0.343	-19.5	97	0.03	4.59
35 p	2,2-dichloropropane	0.640	0.621	3.0	77	0.03	5.56
36 p	cis-1,2-dichloroethene	0.521	0.539	-3.5	87	0.03	5.54
37 p	ethyl acetate	1.425	1.716	-20.4#	97	0.03	4.58
38 p	bromochloromethane	0.251	0.268	-6.8	88	0.03	5.96
39 p	chloroform	0.942	1.067	-13.3	97	0.03	6.18
40 S	dibromofluoromethane (s)	0.531	0.580	-9.2	92	0.03	6.45
		Amount	Calc.	%Drift			
41 p	Tetrahydrofuran	50.000	59.918	-19.8	97	0.03	5.97
		AvgRF	CCRF	%Dev			
42 p	1,1,1-trichloroethane	0.825	1.007	-22.1#	95	0.03	6.42
43 I	1,4-difluorobenzene	1.000	1.000	0.0	90	0.02	7.75
44 p	Cyclohexane	0.690	0.759	-10.0	93	0.03	6.53
		Amount	Calc.	%Drift			
45 p	carbon tetrachloride	50.000	54.576	-9.2	99	0.03	6.68
		AvgRF	CCRF	%Dev			
46 p	1,1-dichloropropene	0.442	0.503	-13.8	95	0.03	6.69
		Amount	Calc.	%Drift			
47 p	benzene	50.000	48.864	2.3	90	0.03	7.01
		AvgRF	CCRF	%Dev			
48 p	1,2-dichloroethane	0.506	0.605	-19.6	108	0.03	7.13
49 p	tert-amyl methyl ether	0.547	0.562	-2.7	95	0.03	7.30
50 p	heptane	0.355	0.455	-28.2#	101	0.02	7.57
51 p	trichloroethene	0.361	0.377	-4.4	99	0.02	8.04
52 p	1,2-dichloropropane	0.331	0.374	-13.0	102	0.02	8.39
53 p	dibromomethane	0.174	0.200	-14.9	105	0.02	8.49
54 p	bromodichloromethane	0.364	0.465	-27.7#	113	0.02	8.74
55 p	Methylcyclohexane	0.441	0.473	-7.3	92	0.02	8.34
56 p	2-chloroethyl vinyl ether	0.091	0.095	-4.4	97	0.02	9.12
		Amount	Calc.	%Drift			
57 p	methyl methacrylate	50.000	46.041	7.9	99	0.02	8.52
		AvgRF	CCRF	%Dev			
58 p	1,4-dioxane	0.000	0.001#	0.0	0#	0.03	8.50
		Amount	Calc.	%Drift			

Continuing Calibration Summary

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Job Number: MC32460

Sample: MSV1230-CC1226

Account: WSPVAR WSP Environmental & Energy

Lab FileID: V33571.D

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

59 p	cis-1,3-dichloropropene	50.000	55.433	-10.9	102	0.02	9.27
	----- AvgRF	CCRF	%Dev	-----			
60 S	toluene-d8 (s)	0.990	1.059	-7.0	101	0.02	9.56
61 p	4-methyl-2-pentanone	0.185	0.235	-27.0#	110	0.02	9.46
62 p	toluene	0.661	0.710	-7.4	103	0.02	9.64
	----- Amount	Calc.	%Drift	-----			
63 p	trans-1,3-dichloropropene	50.000	53.799	-7.6	106	0.02	9.92
	----- AvgRF	CCRF	%Dev	-----			
64 p	1,1,2-trichloroethane	0.157	0.181	-15.3	105	0.02	10.13
	----- Amount	Calc.	%Drift	-----			
65 p	ethyl methacrylate	50.000	50.568	-1.1	96	0.02	10.00
	----- AvgRF	CCRF	%Dev	-----			
66 I	chlorobenzene-d5	1.000	1.000	0.0	108	0.02	11.09
67 p	tetrachloroethene	0.870	0.808	7.1	102	0.02	10.19
68 p	1,3-dichloropropane	0.780	0.785	-0.6	111	0.02	10.29
	----- Amount	Calc.	%Drift	-----			
69 p	dibromochloromethane	50.000	52.296	-4.6	121	0.02	10.51
	----- AvgRF	CCRF	%Dev	-----			
70 p	1,2-dibromoethane	0.487	0.497	-2.1	107	0.02	10.62
71 p	2-hexanone	0.436	0.454	-4.1	98	0.02	10.36
72 P	chlorobenzene	1.929	1.887	2.2	109	0.02	11.12
	----- Amount	Calc.	%Drift	-----			
73 p	1,1,1,2-tetrachloroethane	50.000	47.007	6.0	115	0.02	11.21
	----- AvgRF	CCRF	%Dev	-----			
74 p	ethylbenzene	3.506	3.515	-0.3	116	0.02	11.22
75 p	m,p-xylene	1.347	1.360	-1.0	117	0.02	11.35
76 p	o-xylene	1.350	1.387	-2.7	116	0.02	11.72
77 p	styrene	1.981	2.110	-6.5	117	0.02	11.74
	----- Amount	Calc.	%Drift	-----			
78 P	bromoform	50.000	53.266	-6.5	137	0.02	11.91
79 p	trans-1,4-dichloro-2-bute	50.000	47.138	5.7	119	0.01	12.13
	----- AvgRF	CCRF	%Dev	-----			
80 I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	135	0.01	13.30
81 p	isopropylbenzene	3.033	2.909	4.1	121	0.02	12.07
82 S	bromofluorobenzene (s)	0.865	0.789	8.8	121	0.02	12.23
83 p	bromobenzene	0.798	0.698	12.5	117	0.02	12.36
84 P	1,1,2,2-tetrachloroethane	0.486	0.472	2.9	126	0.02	12.36
85 p	1,2,3-trichloropropane	0.530	0.550	-3.8	127	0.01	12.40
86 p	n-propylbenzene	3.434	3.384	1.5	127	0.01	12.46
87 p	2-chlorotoluene	2.216	2.145	3.2	130	0.02	12.54
88 p	4-chlorotoluene	2.527	2.560	-1.3	136	0.01	12.65
89 p	1,3,5-trimethylbenzene	2.787	2.808	-0.8	131	0.01	12.63
90 p	tert-butylbenzene	1.420	1.536	-8.2	137	0.01	12.91
91 p	1,2,4-trimethylbenzene	2.804	2.886	-2.9	135	0.01	12.97
92 p	sec-butylbenzene	3.084	3.315	-7.5	135	0.01	13.12
93 p	1,3-dichlorobenzene	1.591	1.508	5.2	133	0.02	13.22
94 p	p-isopropyltoluene	2.826	3.078	-8.9	139	0.01	13.26

6.7.6

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Continuing Calibration Summary

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Job Number: MC32460

Sample: MSV1230-CC1226

Account: WSPVAR WSP Environmental & Energy

Lab FileID: V33571.D

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

95 p	1,4-dichlorobenzene	1.608	1.615	-0.4	141	0.02	13.32
96 p	1,2-dichlorobenzene	1.510	1.502	0.5	138	0.02	13.64
97 p	n-butylbenzene	2.344	2.600	-10.9	142	0.01	13.62
----- Amount Calc. %Drift -----							
98 p	1,2-dibromo-3-chloropropa	50.000	51.727	-3.5	162	0.01	14.34
----- AvgRF CCRF %Dev -----							
99 p	1,3,5-trichlorobenzene	1.128	1.025	9.1	126	0.01	14.50
100 p	1,2,4-trichlorobenzene	0.893	0.791	11.4	120	0.01	15.06
101 p	hexachlorobutadiene	0.359	0.322	10.3	126	0.01	15.18
102 p	naphthalene	1.260	1.256	0.3	127	0.01	15.29
103 p	1,2,3-trichlorobenzene	0.723	0.629	13.0	117	0.01	15.48
----- Amount Calc. %Drift -----							
104 p	2-Methylnaphthalene	25.000	21.349	14.6	99	0.01	16.29
105 p	1-Methylnaphthalene	25.000	19.915	20.3#	90	0.02	16.46

(#) = Out of Range

v33448.D v140801w.m

SPCC's out = 1 CCC's out = 0

Wed Aug 06 10:26:25 2014

6.7.6

6

GC/MS Volatiles

Raw Data

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140806\
 Data File : v33581.D
 Acq On : 6 Aug 2014 1:28 pm
 Operator : amym
 Sample : mc32460-2
 Misc : MS32442,MSV1230,,,,5,1
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 06 13:49:19 2014
 Quant Method : C:\msdchem\1\METHODS\v140801w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Aug 01 17:44:41 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) tert butyl alcohol-d9	3.524	65	40072	500.00	ug/L	0.03
4) pentafluorobenzene	6.574	168	248245	50.00	ug/L	0.04
43) 1,4-difluorobenzene	7.754	114	317423	50.00	ug/L	0.03
66) chlorobenzene-d5	11.088	82	135620	50.00	ug/L	0.02
80) 1,4-dichlorobenzene-d4	13.299	152	123698	50.00	ug/L	0.02
System Monitoring Compounds						
40) dibromofluoromethane (s)	6.453	113	145463	55.17	ug/L	0.04
Spiked Amount 50.000	Range 70 - 130		Recovery =	110.34%		
60) toluene-d8 (s)	9.563	98	321936	51.20	ug/L	0.02
Spiked Amount 50.000	Range 70 - 130		Recovery =	102.40%		
82) bromofluorobenzene (s)	12.236	95	120242	56.21	ug/L	0.02
Spiked Amount 50.000	Range 70 - 130		Recovery =	112.42%		
Target Compounds						
36) cis-1,2-dichloroethene	5.545	96	10983	4.25	ug/L	81
51) trichloroethene	8.046	95	82155	35.81	ug/L	93

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

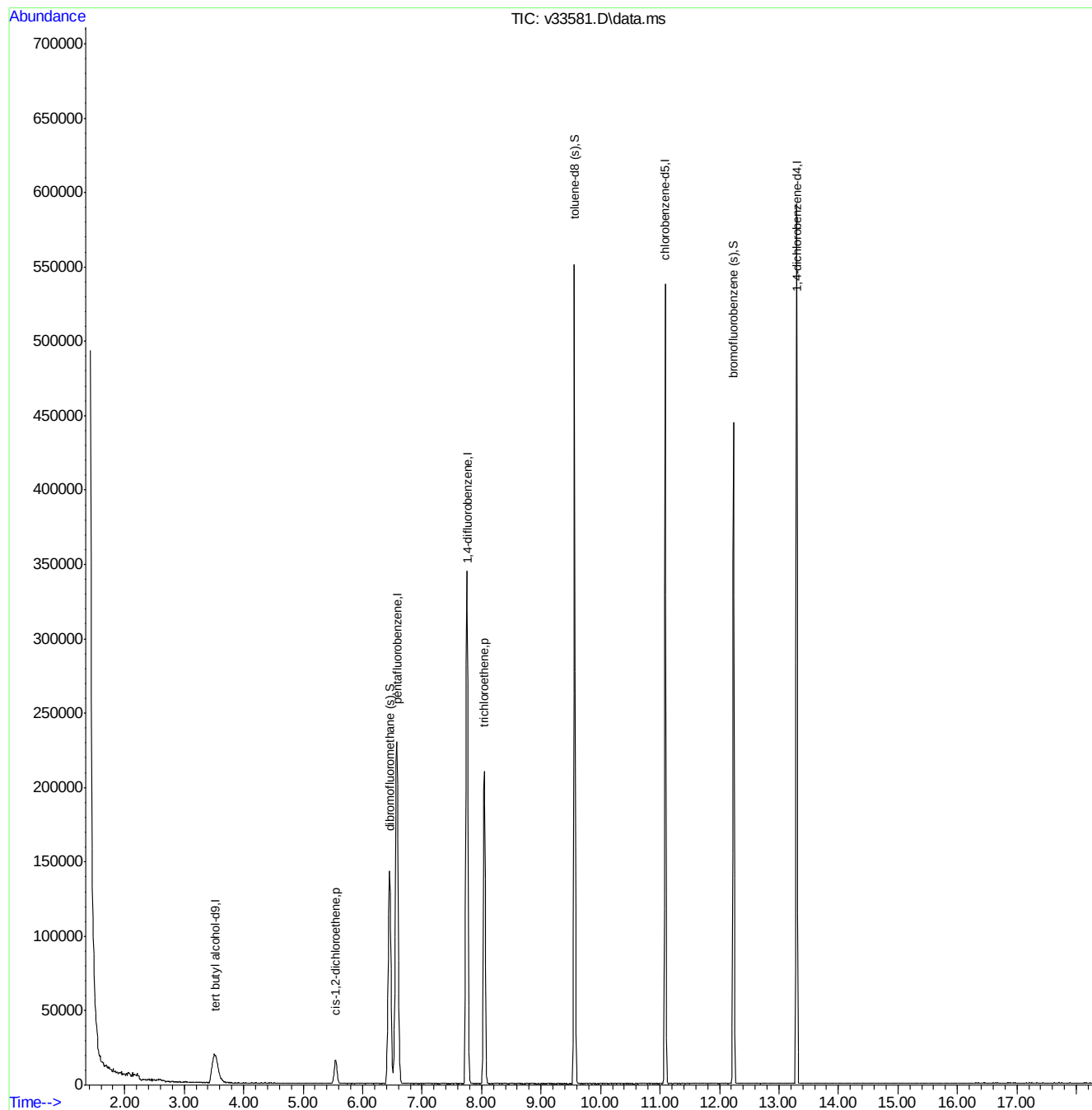
7.1.1

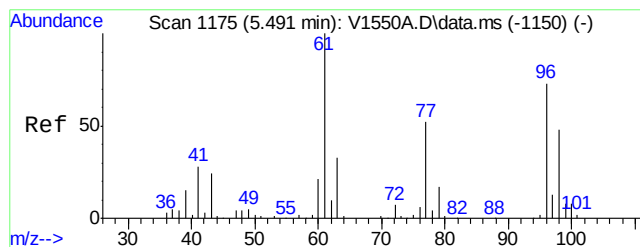
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140806\
Data File : v33581.D
Acq On : 6 Aug 2014 1:28 pm
Operator : amym
Sample : mc32460-2
Misc : MS32442,MSV1230,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

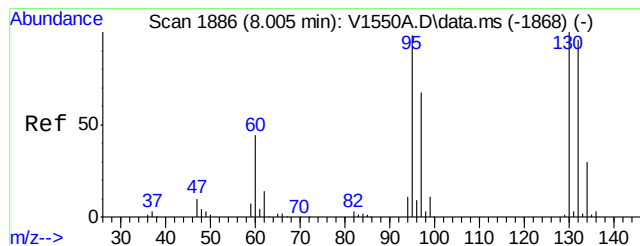
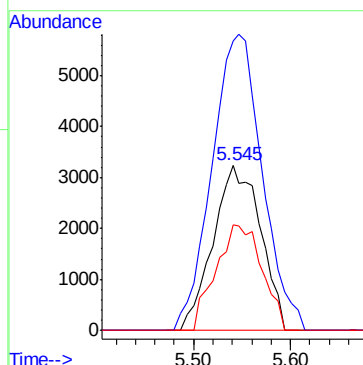
Quant Time: Aug 06 13:49:19 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 17:44:41 2014
Response via : Initial Calibration





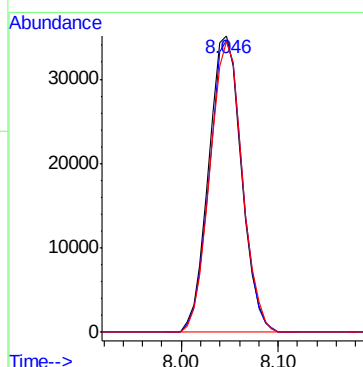
#36
cis-1,2-dichloroethene
Concen: 4.25 ug/L
RT: 5.545 min Scan# 625
Delta R.T. 0.041 min
Lab File: v33581.D
Acq: 6 Aug 2014 1:28 pm

Tgt Ion	Ratio	Lower	Upper
96	100		
61	201.0	138.7	198.7#
98	71.1	35.3	95.3



#51
trichloroethene
Concen: 35.81 ug/L
RT: 8.046 min Scan# 996
Delta R.T. 0.028 min
Lab File: v33581.D
Acq: 6 Aug 2014 1:28 pm

Tgt Ion	Ratio	Lower	Upper
95	100		
130	98.7	78.4	138.4
132	98.0	72.8	132.8



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140806\
 Data File : v33582.D
 Acq On : 6 Aug 2014 1:54 pm
 Operator : amym
 Sample : mc32460-3
 Misc : MS32442,MSV1230,,,,5,1
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 06 14:47:03 2014
 Quant Method : C:\msdchem\1\METHODS\v140801w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Aug 01 17:44:41 2014
 Response via : Initial Calibration

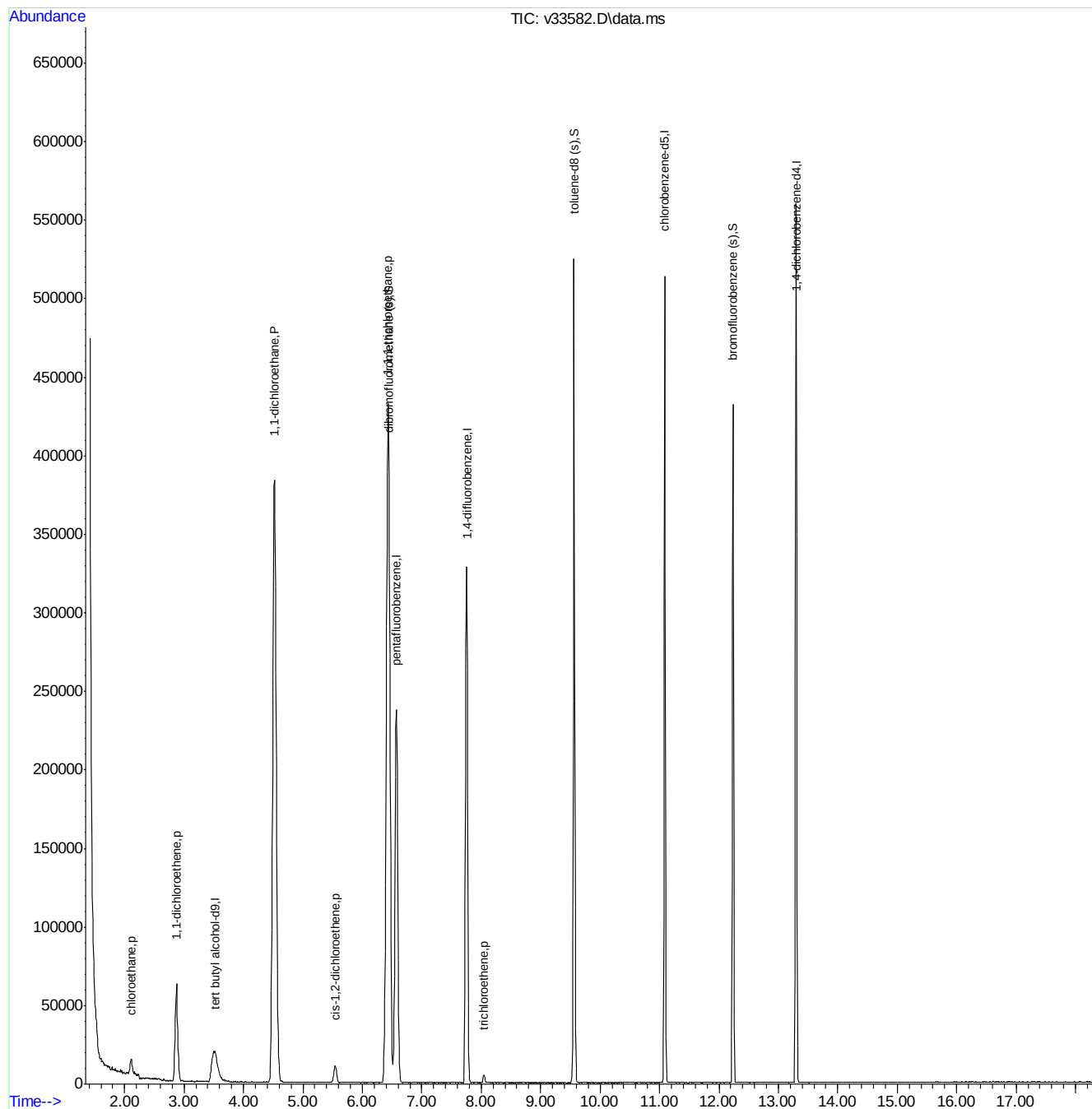
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.523	65	41575	500.00	ug/L	0.03
4) pentafluorobenzene	6.573	168	249439	50.00	ug/L	0.04
43) 1,4-difluorobenzene	7.754	114	305819	50.00	ug/L	0.03
66) chlorobenzene-d5	11.088	82	128868	50.00	ug/L	0.02
80) 1,4-dichlorobenzene-d4	13.299	152	116242	50.00	ug/L	0.02
System Monitoring Compounds						
40) dibromofluoromethane (s)	6.452	113	149348	56.38	ug/L	0.04
Spiked Amount 50.000	Range 70 - 130		Recovery =	112.76%		
60) toluene-d8 (s)	9.563	98	307572	50.78	ug/L	0.02
Spiked Amount 50.000	Range 70 - 130		Recovery =	101.56%		
82) bromofluorobenzene (s)	12.237	95	113414	56.42	ug/L	0.02
Spiked Amount 50.000	Range 70 - 130		Recovery =	112.84%		
Target Compounds						
9) chloroethane	2.111	64	13637	5.49	ug/L	94
15) 1,1-dichloroethene	2.872	96	29416	9.96	ug/L #	64
32) 1,1-dichloroethane	4.521	63	771057	143.35	ug/L	98
36) cis-1,2-dichloroethene	5.543	96	7544	2.90	ug/L	86
42) 1,1,1-trichloroethane	6.429	97	408654	99.34	ug/L	96
51) trichloroethene	8.046	95	2038	0.92	ug/L	96

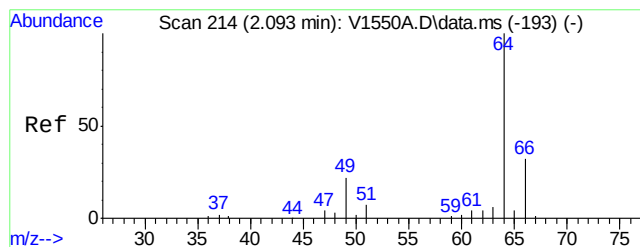
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140806\
Data File : v33582.D
Acq On : 6 Aug 2014 1:54 pm
Operator : amym
Sample : mc32460-3
Misc : MS32442,MSV1230,,,,5,1
ALS Vial : 13 Sample Multiplier: 1

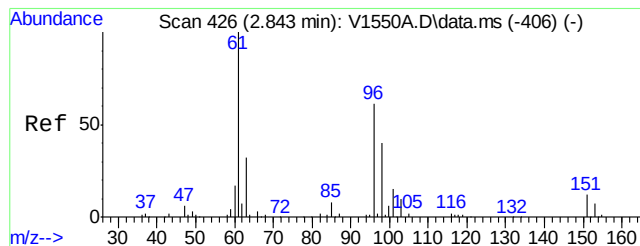
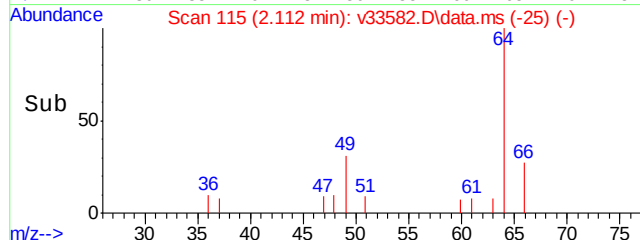
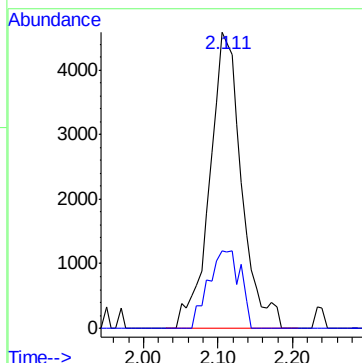
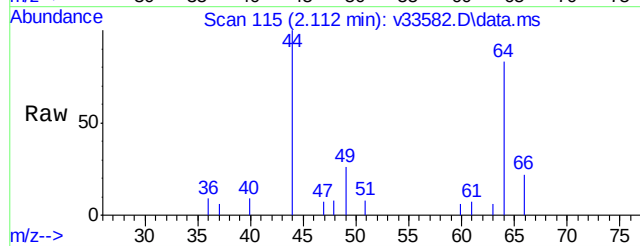
Quant Time: Aug 06 14:47:03 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 17:44:41 2014
Response via : Initial Calibration





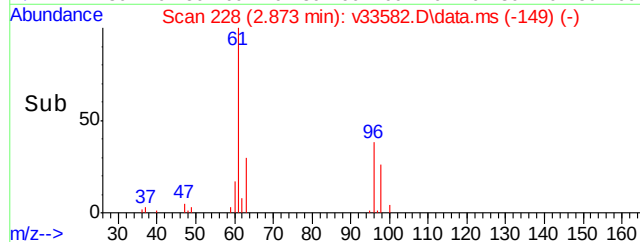
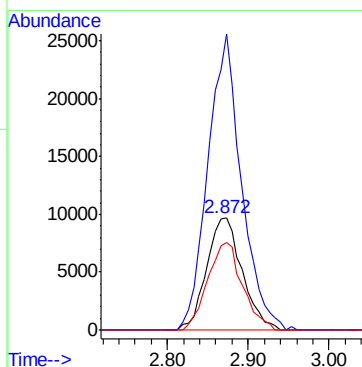
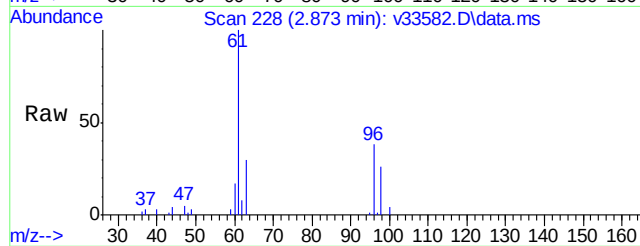
#9
chloroethane
Concen: 5.49 ug/L
RT: 2.111 min Scan# 115
Delta R.T. 0.023 min
Lab File: v33582.D
Acq: 6 Aug 2014 1:54 pm

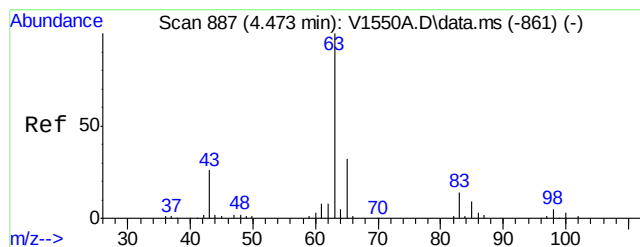
Tgt Ion	Ratio	Lower	Upper
64	100		
66	26.8	0.2	60.2



#15
1,1-dichloroethene
Concen: 9.96 ug/L
RT: 2.872 min Scan# 228
Delta R.T. 0.030 min
Lab File: v33582.D
Acq: 6 Aug 2014 1:54 pm

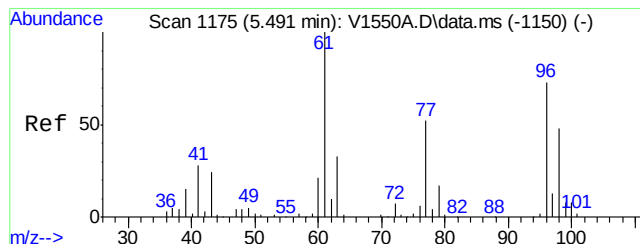
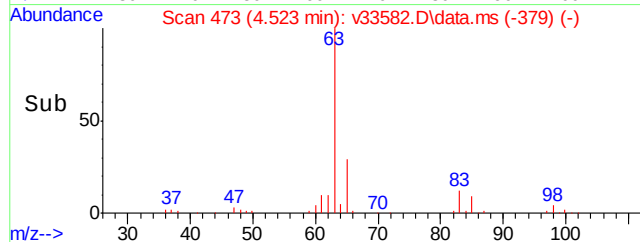
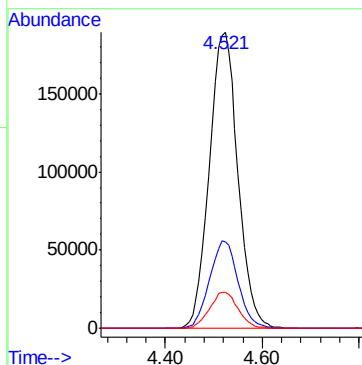
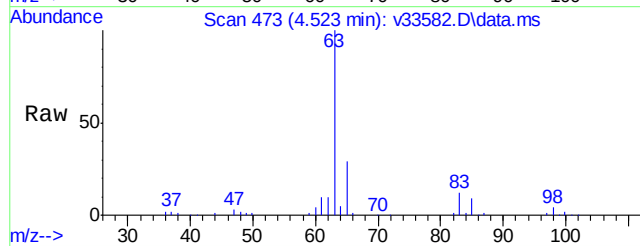
Tgt Ion	Ratio	Lower	Upper
96	100		
61	264.8	173.9	233.9#
63	78.7	30.6	90.6





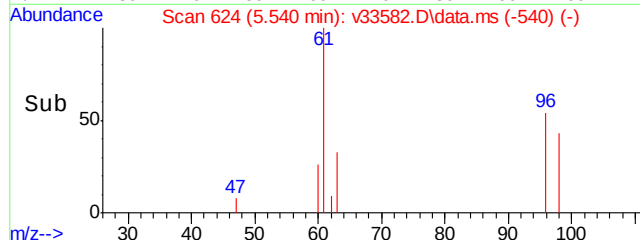
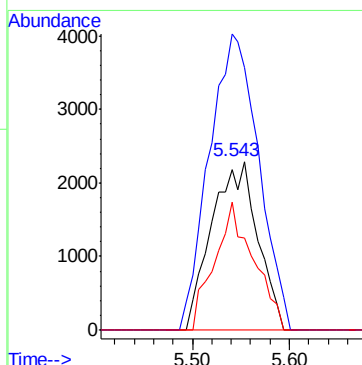
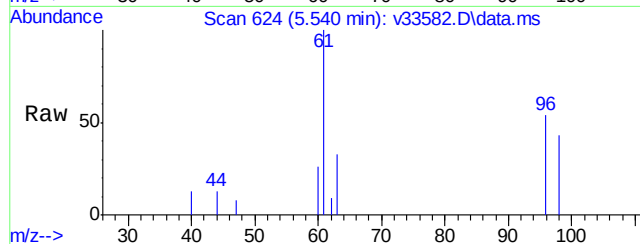
#32
1,1-dichloroethane
Concen: 143.35 ug/L
RT: 4.521 min Scan# 473
Delta R.T. 0.038 min
Lab File: v33582.D
Acq: 6 Aug 2014 1:54 pm

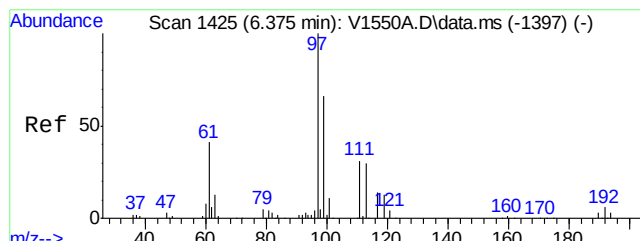
Tgt Ion:	63	Resp:	771057
Ion Ratio	Lower	Upper	
63	100		
65	29.1	0.2	60.2
83	12.3	0.0	42.9



#36
cis-1,2-dichloroethene
Concen: 2.90 ug/L
RT: 5.543 min Scan# 624
Delta R.T. 0.039 min
Lab File: v33582.D
Acq: 6 Aug 2014 1:54 pm

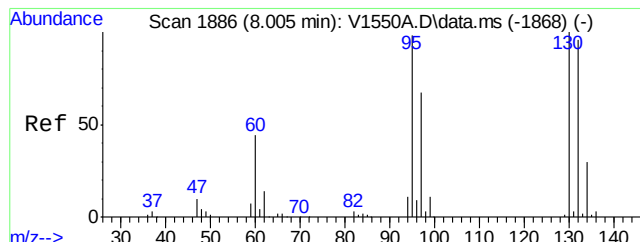
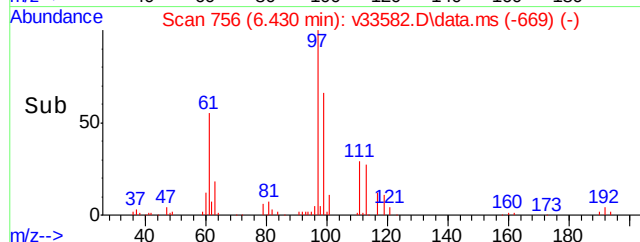
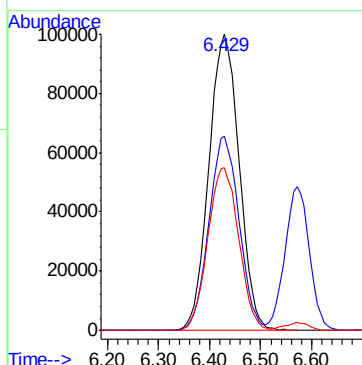
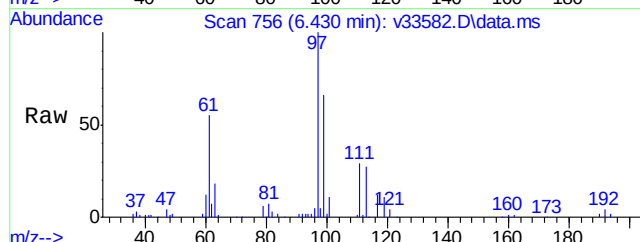
Tgt Ion:	96	Resp:	7544
Ion Ratio	Lower	Upper	
96	100		
61	185.0	138.7	198.7
98	80.0	35.3	95.3





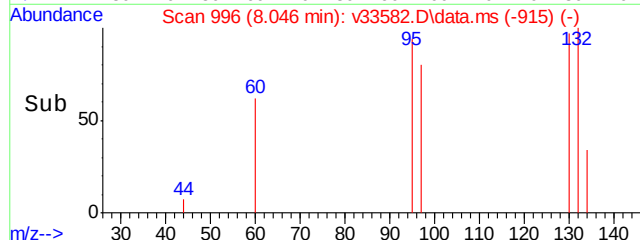
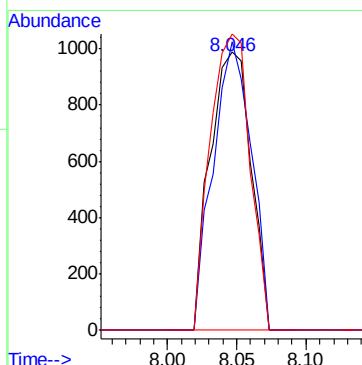
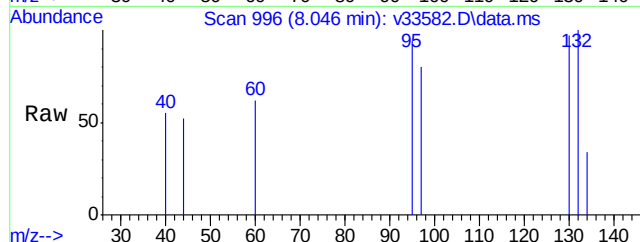
#42
1,1,1-trichloroethane
Concen: 99.34 ug/L
RT: 6.429 min Scan# 756
Delta R.T. 0.038 min
Lab File: v33582.D
Acq: 6 Aug 2014 1:54 pm

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.7	35.0	95.0
61	55.0	19.9	79.9



#51
trichloroethene
Concen: 0.92 ug/L
RT: 8.046 min Scan# 996
Delta R.T. 0.028 min
Lab File: v33582.D
Acq: 6 Aug 2014 1:54 pm

Tgt Ion	Ratio	Lower	Upper
95	100		
130	103.4	78.4	138.4
132	106.3	72.8	132.8



Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140804\
 Data File : U21540.D
 Acq On : 4 Aug 2014 2:53 pm
 Operator : garyk
 Sample : mc32460-4
 Misc : ms32429,msu957,,,,5,1
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 04 15:39:15 2014
 Quant Method : D:\msdchem\1\methods\U140802W.m
 Quant Title : SW-846 Method 8260
 QLast Update : Mon Aug 04 09:37:40 2014
 Response via : Initial Calibration

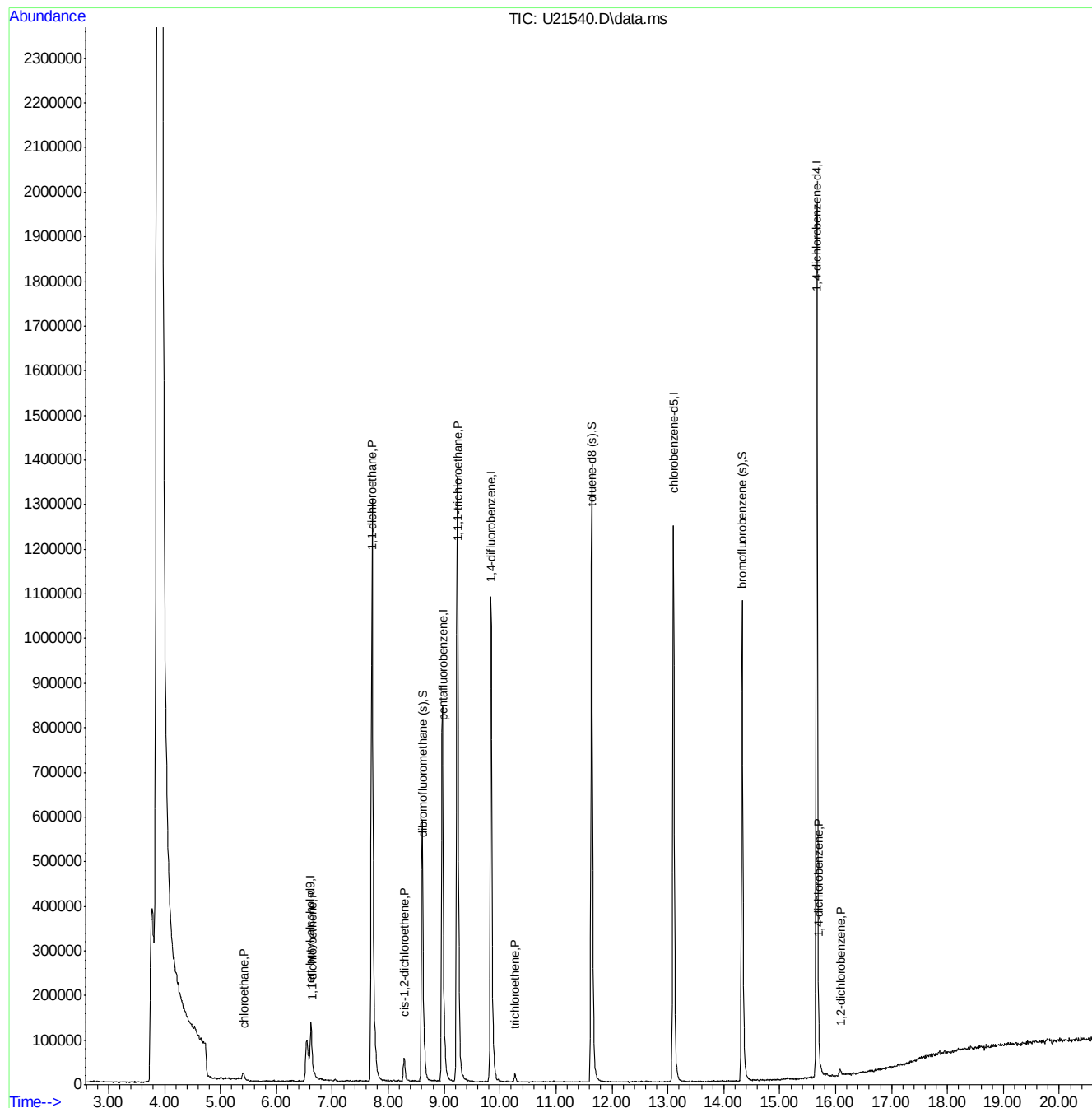
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.607	65	260135	50.00	ppb	0.00
4) pentafluorobenzene	8.977	168	701288	50.00	ppb	0.00
43) 1,4-difluorobenzene	9.845	114	1077896	50.00	ppb	0.00
66) chlorobenzene-d5	13.104	82	394305	50.00	ppb	# 0.00
80) 1,4-dichlorobenzene-d4	15.667	152	643092	50.00	ppb	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.615	113	437334	57.09	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	114.18%		
60) toluene-d8 (s)	11.643	98	1026282	56.75	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	113.50%		
82) bromofluorobenzene (s)	14.333	95	411661	55.34	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	110.68%		
Target Compounds						
9) chloroethane	5.418	64	20021	4.24	ppb	96
15) 1,1-dichloroethene	6.634	96	54666	8.47	ppb	90
33) 1,1-dichloroethane	7.719	63	1667140	116.59	ppb	98
37) cis-1,2-dichloroethene	8.289	96	27210	3.28	ppb	88
42) 1,1,1-trichloroethane	9.241	97	1042878	87.01	ppb	97
51) trichloroethene	10.267	95	6069	0.90	ppb	# 63
95) 1,4-dichlorobenzene	15.689	146	4420	0.25	ppb	74
96) 1,2-dichlorobenzene	16.087	146	10283	0.54	ppb	95

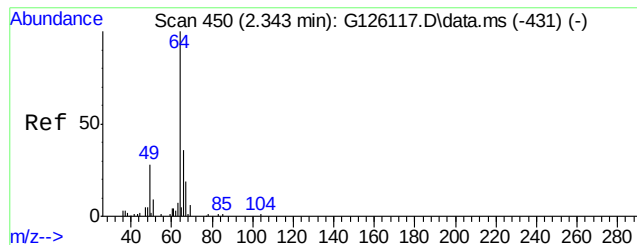
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140804\
Data File : U21540.D
Acq On : 4 Aug 2014 2:53 pm
Operator : garyk
Sample : mc32460-4
Misc : ms32429,msu957,,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

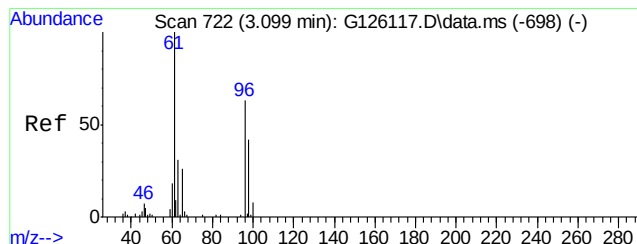
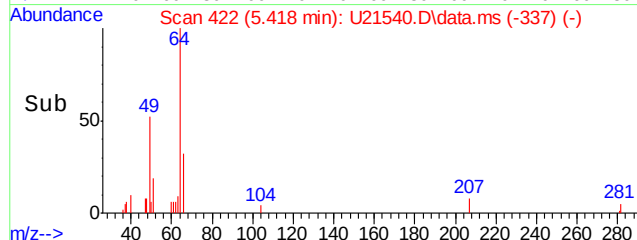
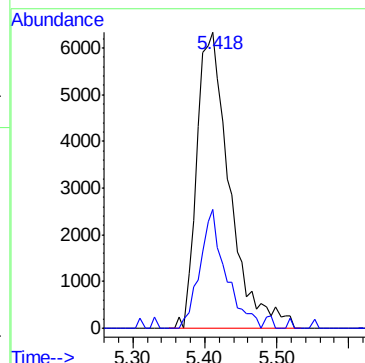
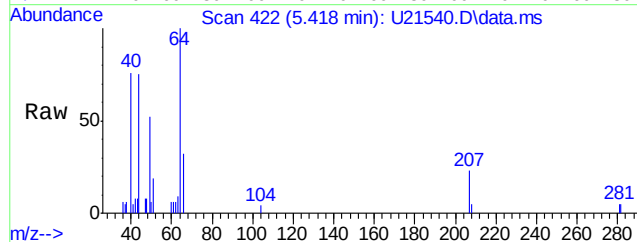
Quant Time: Aug 04 15:39:15 2014
Quant Method : D:\msdchem\1\methods\U140802W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Aug 04 09:37:40 2014
Response via : Initial Calibration





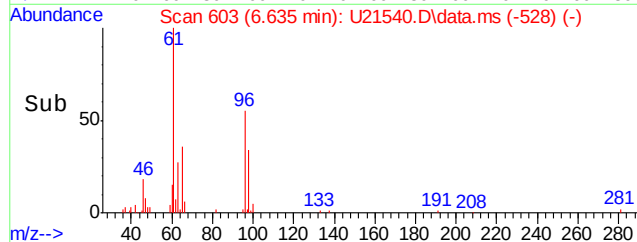
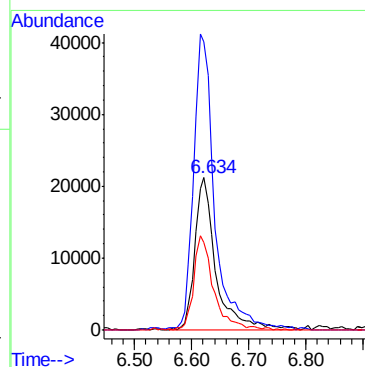
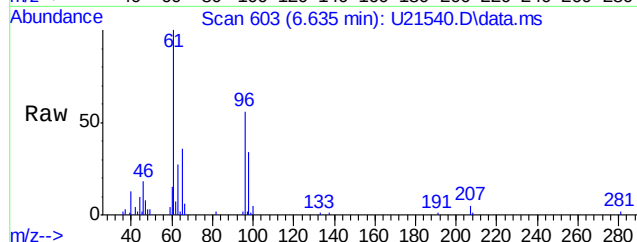
#9
chloroethane
Concen: 4.24 ppb
RT: 5.418 min Scan# 422
Delta R.T. -0.006 min
Lab File: U21540.D
Acq: 4 Aug 2014 2:53 pm

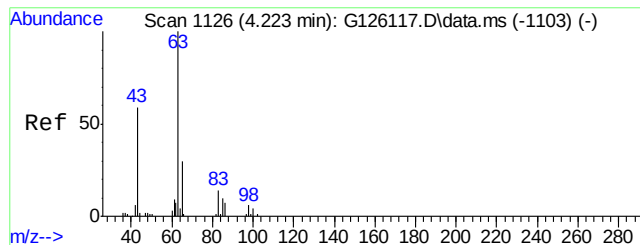
Tgt Ion: 64 Resp: 20021
Ion Ratio Lower Upper
64 100
66 32.2 0.1 60.1



#15
1,1-dichloroethene
Concen: 8.47 ppb
RT: 6.634 min Scan# 603
Delta R.T. 0.002 min
Lab File: U21540.D
Acq: 4 Aug 2014 2:53 pm

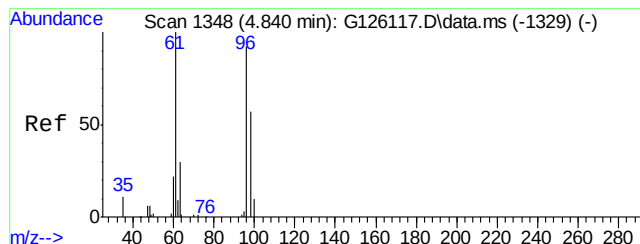
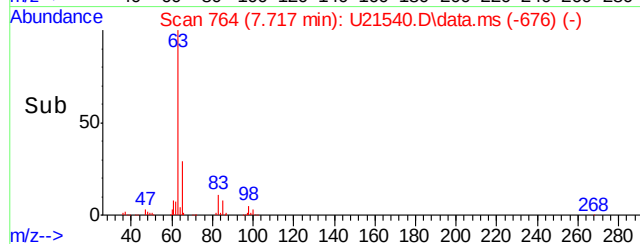
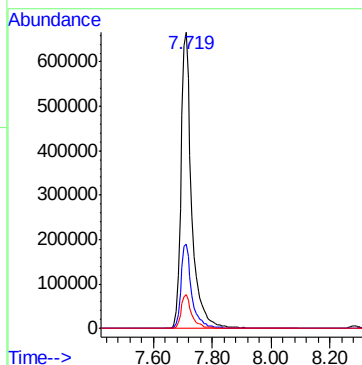
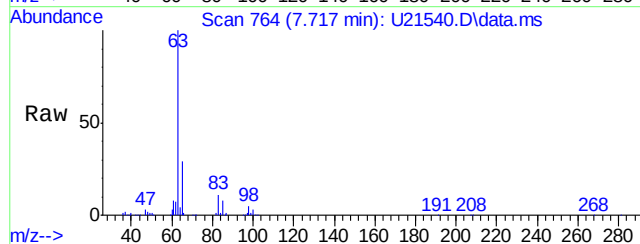
Tgt Ion: 96 Resp: 54666
Ion Ratio Lower Upper
96 100
61 176.3 158.7 218.7
63 47.4 27.6 87.6





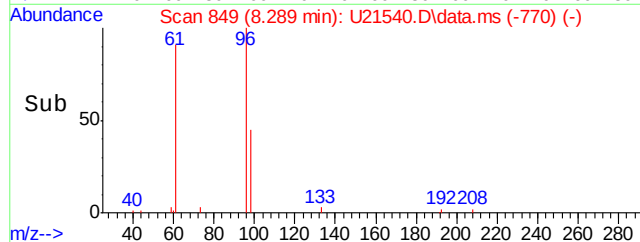
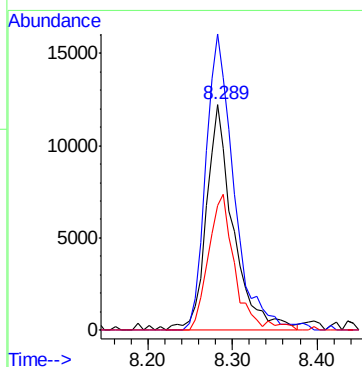
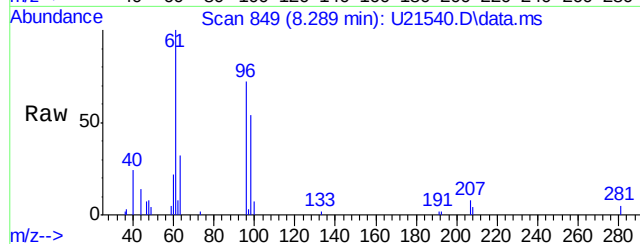
#33
1,1-dichloroethane
Concen: 116.59 ppb
RT: 7.719 min Scan# 764
Delta R.T. 0.001 min
Lab File: U21540.D
Acq: 4 Aug 2014 2:53 pm

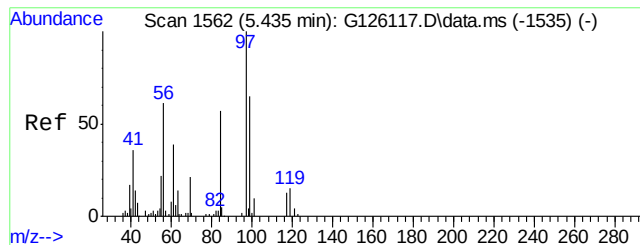
Tgt Ion	Ratio	Lower	Upper
63	100		
65	28.6	0.0	59.7
83	11.4	0.0	41.8



#37
cis-1,2-dichloroethene
Concen: 3.28 ppb
RT: 8.289 min Scan# 849
Delta R.T. 0.001 min
Lab File: U21540.D
Acq: 4 Aug 2014 2:53 pm

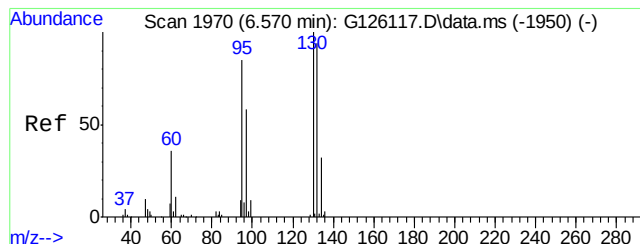
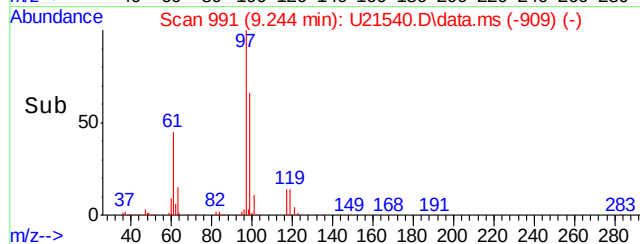
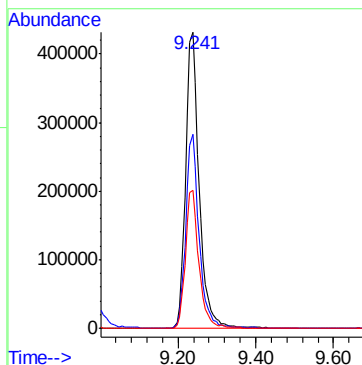
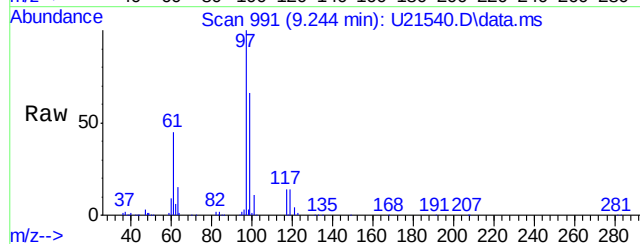
Tgt Ion	Ratio	Lower	Upper
96	100		
61	139.4	126.3	186.3
98	75.0	36.2	96.2





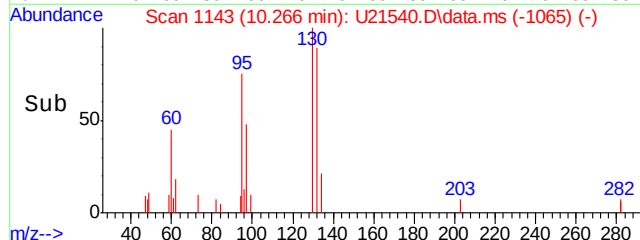
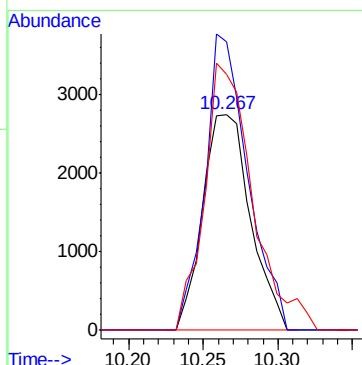
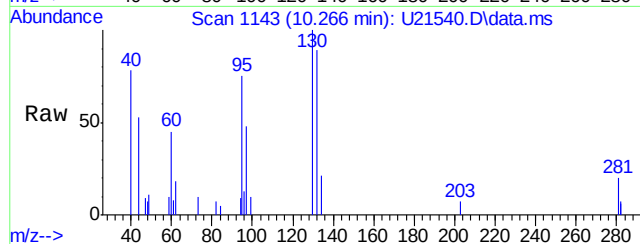
#42
1,1,1-trichloroethane
Concen: 87.01 ppb
RT: 9.241 min Scan# 991
Delta R.T. 0.001 min
Lab File: U21540.D
Acq: 4 Aug 2014 2:53 pm

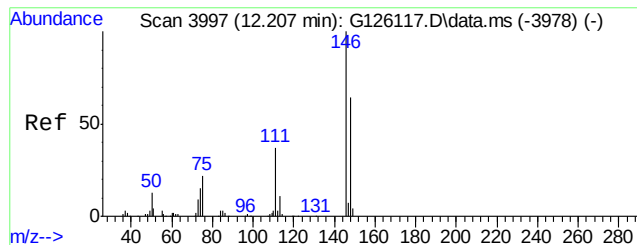
Tgt Ion: 97 Resp: 1042878
Ion Ratio Lower Upper
97 100
99 65.9 33.0 93.0
61 45.4 14.2 74.2



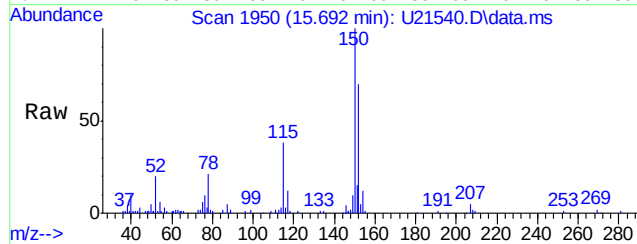
#51
trichloroethene
Concen: 0.90 ppb
RT: 10.267 min Scan# 1143
Delta R.T. 0.007 min
Lab File: U21540.D
Acq: 4 Aug 2014 2:53 pm

Tgt Ion: 95 Resp: 6069
Ion Ratio Lower Upper
95 100
130 133.8 58.8 118.8#
132 118.5 62.5 122.5

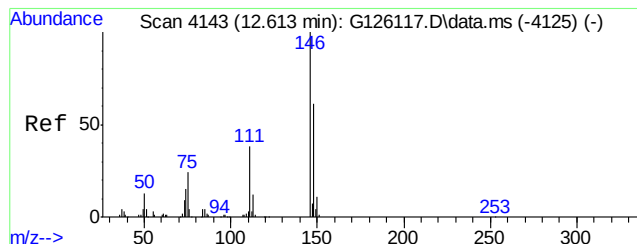
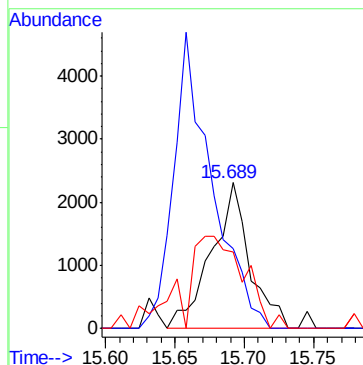
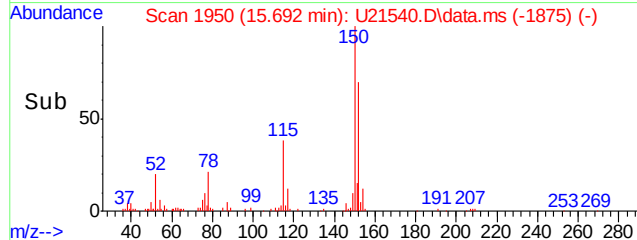




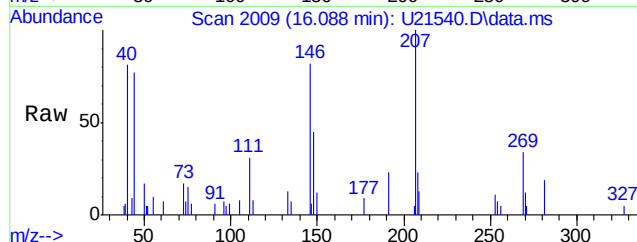
#95
1,4-dichlorobenzene
Concen: 0.25 ppb
RT: 15.689 min Scan# 1950
Delta R.T. -0.001 min
Lab File: U21540.D
Acq: 4 Aug 2014 2:53 pm



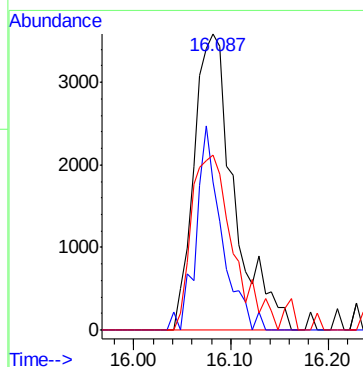
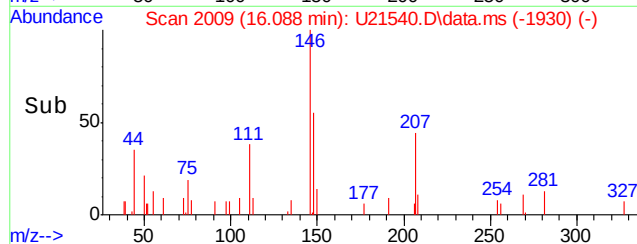
Tgt Ion:	146	Resp:	4420
Ion Ratio	Lower	Upper	
146	100		
111	56.3	6.8	66.8
148	46.4	34.0	94.0



#96
1,2-dichlorobenzene
Concen: 0.54 ppb
RT: 16.087 min Scan# 2009
Delta R.T. 0.028 min
Lab File: U21540.D
Acq: 4 Aug 2014 2:53 pm



Tgt Ion:	146	Resp:	10283
Ion Ratio	Lower	Upper	
146	100		
111	38.3	9.1	69.1
148	54.8	30.4	90.4



Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140804\
 Data File : U21532.D
 Acq On : 4 Aug 2014 11:13 am
 Operator : garyk
 Sample : mb
 Misc : ms32403,msu957,,,,5,1
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 04 12:12:40 2014
 Quant Method : D:\msdchem\1\methods\U140802W.m
 Quant Title : SW-846 Method 8260
 QLast Update : Mon Aug 04 09:37:40 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.618	65	312945	50.00	ppb	0.02
4) pentafluorobenzene	8.978	168	757053	50.00	ppb	0.00
43) 1,4-difluorobenzene	9.846	114	1111876	50.00	ppb	0.00
66) chlorobenzene-d5	13.105	82	376944	50.00	ppb	# 0.00
80) 1,4-dichlorobenzene-d4	15.666	152	667021	50.00	ppb	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.618	113	481331	58.20	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	116.40%		
60) toluene-d8 (s)	11.645	98	1007753	54.03	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	108.06%		
82) bromofluorobenzene (s)	14.333	95	419437	54.36	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	108.72%		
Target Compounds						Qvalue
103) 2-Methylnaphthalene	19.551	142	53525	2.38	ug/L	95
104) 1-Methylnaphthalene	19.782	142	49432	2.71	ug/L	94

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

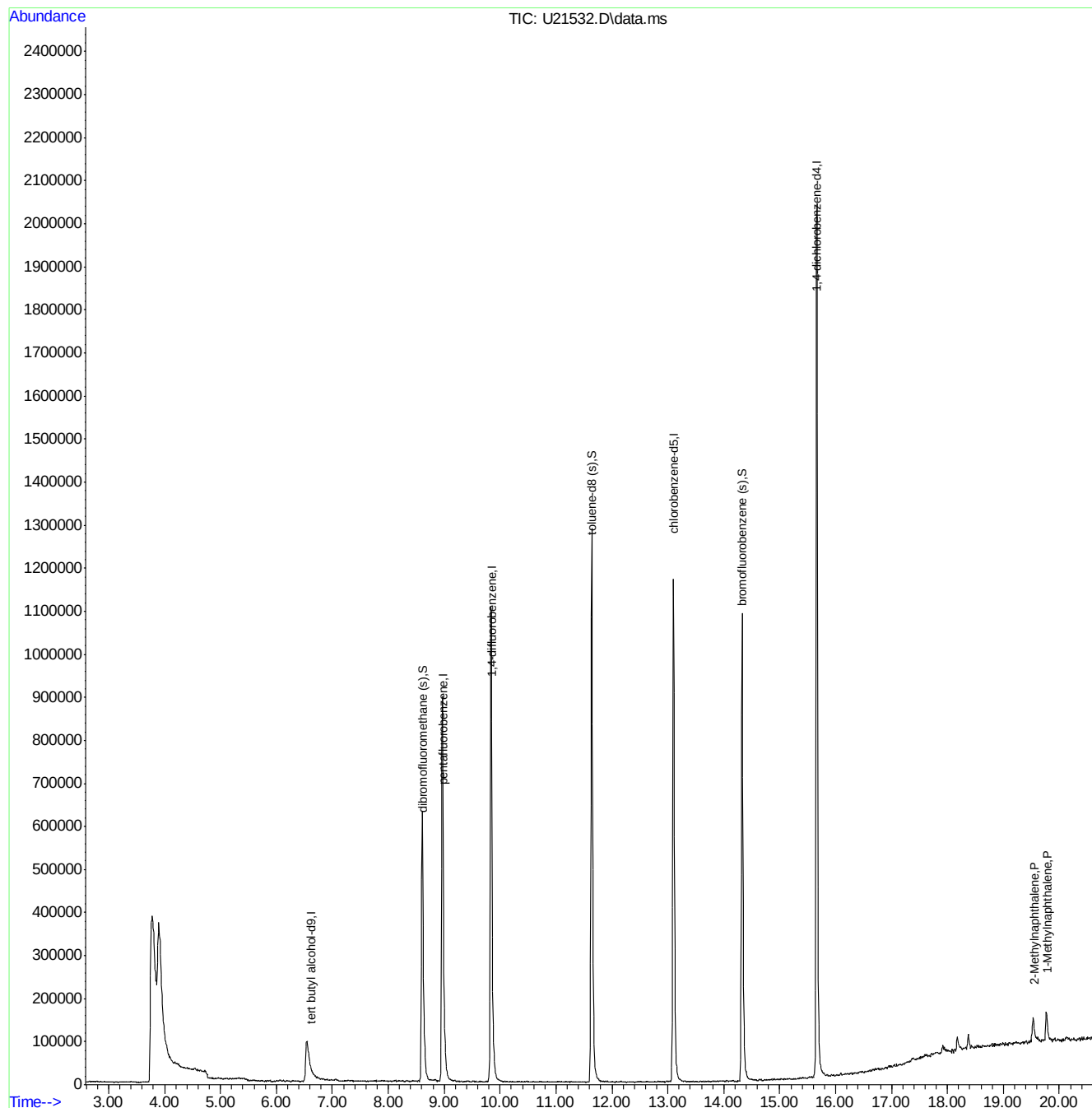
7.2.1

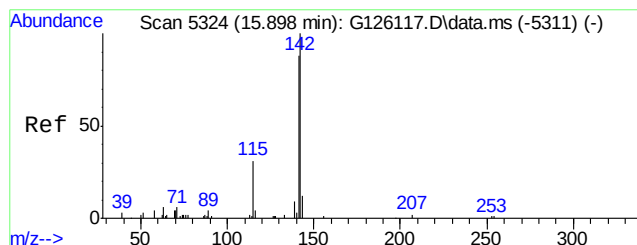
7

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140804\
Data File : U21532.D
Acq On : 4 Aug 2014 11:13 am
Operator : garyk
Sample : mb
Misc : ms32403,msu957,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

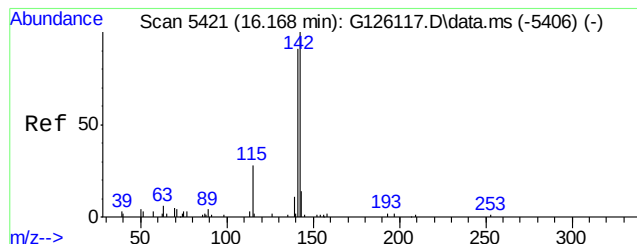
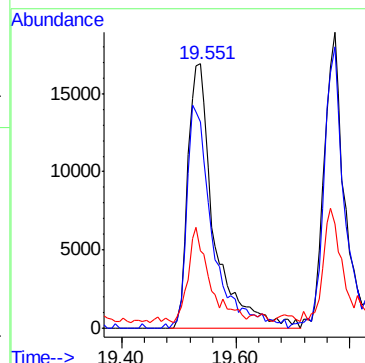
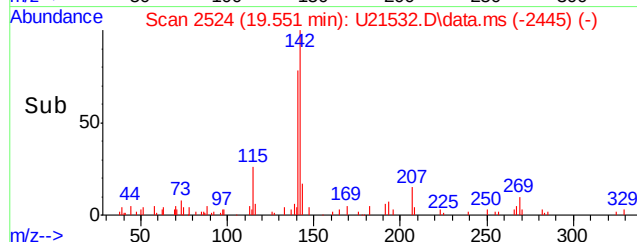
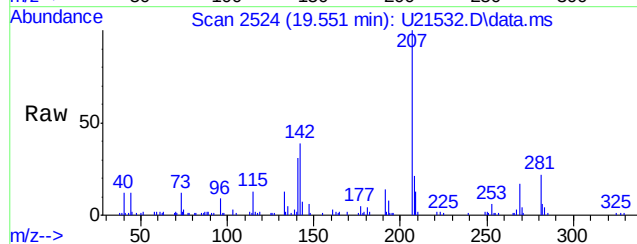
Quant Time: Aug 04 12:12:40 2014
Quant Method : D:\msdchem\1\methods\U140802W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Aug 04 09:37:40 2014
Response via : Initial Calibration





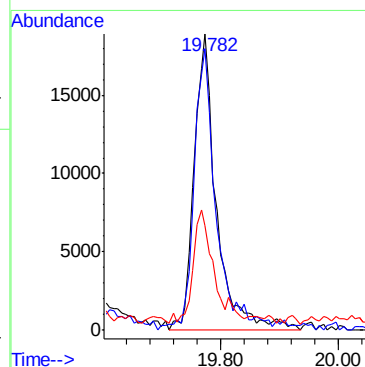
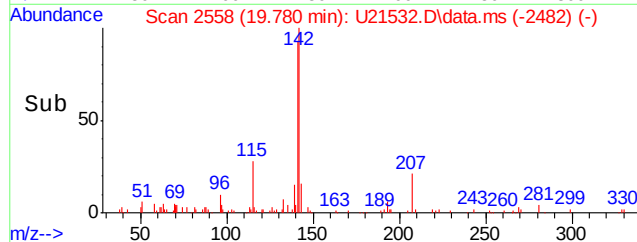
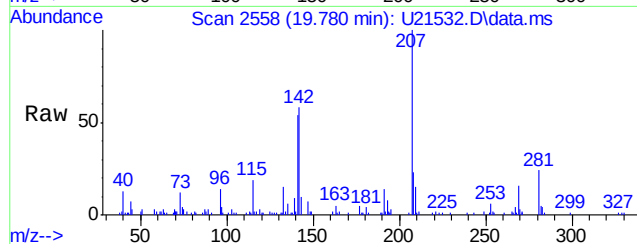
#103
2-Methylnaphthalene
Concen: 2.38 ug/L
RT: 19.551 min Scan# 2524
Delta R.T. 0.028 min
Lab File: U21532.D
Acq: 4 Aug 2014 11:13 am

Tgt	Ion:142	Resp:	53525
Ion	Ratio	Lower	Upper
142	100		
141	83.3	67.9	107.9
115	31.7	15.5	55.5



#104
1-Methylnaphthalene
Concen: 2.71 ug/L
RT: 19.782 min Scan# 2558
Delta R.T. 0.012 min
Lab File: U21532.D
Acq: 4 Aug 2014 11:13 am

Tgt	Ion:142	Resp:	49432
Ion	Ratio	Lower	Upper
142	100		
141	97.0	72.6	108.8
115	38.3	29.2	43.8



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140806\
Data File : v33575.D
Acq On : 6 Aug 2014 10:33 am
Operator : amym
Sample : mb
Misc : MS32437,MSV1230,,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 06 13:16:02 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 17:44:41 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.523	65	51912	500.00	ug/L	0.03
4) pentafluorobenzene	6.572	168	271884	50.00	ug/L	0.03
43) 1,4-difluorobenzene	7.752	114	345957	50.00	ug/L	0.03
66) chlorobenzene-d5	11.086	82	148382	50.00	ug/L	0.02
80) 1,4-dichlorobenzene-d4	13.297	152	139636	50.00	ug/L	0.02
System Monitoring Compounds						
40) dibromofluoromethane (s)	6.451	113	153510	53.16	ug/L	0.03
Spiked Amount 50.000	Range 70 - 130		Recovery =	106.32%		
60) toluene-d8 (s)	9.562	98	356957	52.09	ug/L	0.02
Spiked Amount 50.000	Range 70 - 130		Recovery =	104.18%		
82) bromofluorobenzene (s)	12.235	95	134822	55.83	ug/L	0.02
Spiked Amount 50.000	Range 70 - 130		Recovery =	111.66%		

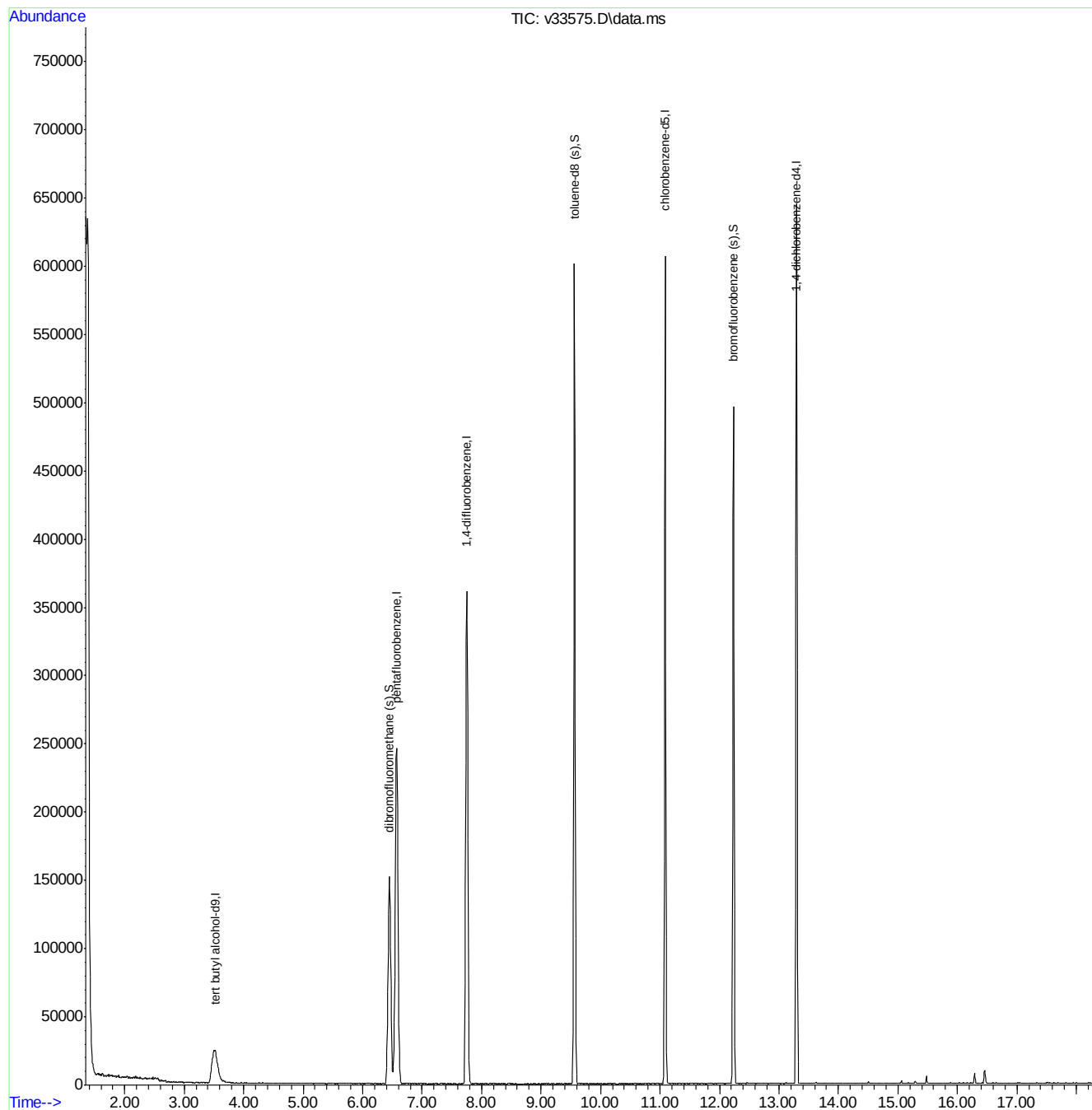
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140806\
Data File : v33575.D
Acq On : 6 Aug 2014 10:33 am
Operator : amym
Sample : mb
Misc : MS32437,MSV1230,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 06 13:16:02 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 17:44:41 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140804\
 Data File : U21529.D
 Acq On : 4 Aug 2014 9:52 am
 Operator : garyk
 Sample : bs
 Misc : ms32403,msu957,,,,5,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 04 10:48:04 2014
 Quant Method : D:\msdchem\1\methods\U140802W.m
 Quant Title : SW-846 Method 8260
 QLast Update : Mon Aug 04 09:37:40 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.611	65	342426	50.00	ppb	0.00
4) pentafluorobenzene	8.975	168	803924	50.00	ppb	0.00
43) 1,4-difluorobenzene	9.842	114	1296013	50.00	ppb	0.00
66) chlorobenzene-d5	13.098	82	470715	50.00	ppb	# 0.00
80) 1,4-dichlorobenzene-d4	15.662	152	704870	50.00	ppb	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.614	113	487879	55.56	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	111.12%		
60) toluene-d8 (s)	11.639	98	1264742	58.17	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	116.34%		
82) bromofluorobenzene (s)	14.326	95	460135	56.44	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	112.88%		
Target Compounds						
						Qvalue
2) tertiary butyl alcohol	6.290	59	353956	671.86	ppb	96
3) Ethanol	5.587	45	579358	7385.44	ppb	97
5) dichlorodifluoromethane	4.336	85	525365	42.70	ppb	91
6) chloromethane	4.557	50	1008875	48.33	ppb	99
7) vinyl chloride	4.815	62	641938	44.40	ppb	95
8) bromomethane	5.289	96	394100	49.12	ppb	93
9) chloroethane	5.424	64	303816	56.17	ppb	100
10) ethyl ether	6.290	59	353658	51.52	ppb	88
11) acetonitrile	6.070	41	60080m	63.09	ppb	
12) trichlorofluoromethane	6.067	101	721963	41.69	ppb	98
13) freon-113	6.835	101	432466	50.38	ppb	85
14) acrolein	6.061	56	137573	282.67	ppb	92
15) 1,1-dichloroethene	6.633	96	354660	47.91	ppb	100
16) acetone	6.217	58	95112	48.06	ppb	87
17) Methyl Acetate	6.823	43	445643	59.51	ppb	# 92
18) methylene chloride	6.782	84	381578	46.89	ppb	87
19) methyl tert butyl ether	7.565	73	918747	48.31	ppb	89
20) acrylonitrile	6.705	53	197801	55.11	ppb	95
21) allyl chloride	6.874	41	797533	50.46	ppb	95
22) trans-1,2-dichloroethene	7.467	96	393558	45.94	ppb	90
23) iodomethane	6.691	142	807094	47.95	ppb	92
24) carbon disulfide	7.054	76	1093907	50.04	ppb	96
25) propionitrile	8.084	54	44063	57.60	ppb	100
26) vinyl acetate	7.820	43	633491	42.98	ppb	97
27) chloroprene	8.083	53	827476	60.66	ppb	90
28) di-isopropyl ether	8.123	45	1548679	49.20	ppb	95
29) methacrylonitrile	8.241	41	252015	52.76	ppb	94
30) 2-butanone	8.135	72	45934	48.71	ppb	# 40
31) Ethyl Acetate	8.119	43	1331188	49.63	ug/L	97
32) Hexane	8.106	41	652343	50.39	ppb	# 81
33) 1,1-dichloroethane	7.719	63	793626	48.41	ppb	98
34) tert-butyl ethyl ether	8.519	59	1320224	51.35	ppb	96
35) isobutyl alcohol	8.525	43	189036	180.16	ppb	99
36) 2,2-dichloropropane	8.576	77	518658	51.35	ppb	94

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140804\
 Data File : U21529.D
 Acq On : 4 Aug 2014 9:52 am
 Operator : garyk
 Sample : bs
 Misc : ms32403,msu957,,,,5,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 04 10:48:04 2014
 Quant Method : D:\msdchem\1\methods\U140802W.m
 Quant Title : SW-846 Method 8260
 QLast Update : Mon Aug 04 09:37:40 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) cis-1,2-dichloroethene	8.287	96	428880	45.13	ppb	94
38) bromochloromethane	8.454	128	253862	48.18	ppb #	77
39) chloroform	8.492	83	687830	46.85	ppb	99
41) Tetrahydrofuran	8.834	42	132876	51.48	ppb	91
42) 1,1,1-trichloroethane	9.241	97	655266	47.69	ppb	98
44) Cyclohexane	9.525	56	812517	51.22	ppb	89
45) carbon tetrachloride	9.605	117	644826	47.70	ppb	99
46) 1,1-dichloropropene	9.417	75	422348	45.46	ppb	89
47) benzene	9.640	78	1254882	47.07	ppb	96
48) 1,2-dichloroethane	9.142	62	580828	48.73	ppb	97
49) tert-amyl methyl ether	9.763	73	898151	49.54	ppb	90
50) heptane	10.118	43	553822m	52.02	ppb	
51) trichloroethene	10.261	95	377093	46.33	ppb	72
52) 1,2-dichloropropane	10.228	63	378123	49.59	ppb	100
53) dibromomethane	10.202	93	233837	48.77	ppb	88
54) bromodichloromethane	10.315	83	510347	52.02	ppb	94
55) Methylcyclohexane	10.778	83	578181	51.31	ppb	91
56) 2-chloroethyl vinyl ether	10.698	63	147576	55.35	ppb	95
57) methyl methacrylate	10.415	69	133172	60.75	ppb	81
58) 1,4-dioxane	10.447	88	10631	215.04	ppb #	32
59) cis-1,3-dichloropropene	10.935	75	439100	53.28	ppb	88
61) 4-methyl-2-pentanone	11.039	43	357599	49.05	ppb	97
62) toluene	11.711	92	669219	49.48	ppb	97
63) trans-1,3-dichloropropene	11.357	75	351814	58.30	ppb	93
64) 1,1,2-trichloroethane	11.528	83	190591	51.79	ppb	89
65) ethyl methacrylate	11.736	69	239330	48.57	ppb	77
67) tetrachloroethene	12.454	166	358295	51.92	ppb	94
68) 1,3-dichloropropane	11.763	76	339491	53.74	ppb	95
69) dibromochloromethane	12.054	129	396889	53.09	ppb	97
70) 1,2-dibromoethane	12.306	107	268470	51.15	ppb	97
71) 2-hexanone	11.903	43	250963	46.97	ppb	95
72) chlorobenzene	13.134	112	851052	50.31	ppb	86
73) 1,1,1,2-tetrachloroethane	13.053	131	479030	49.31	ppb	96
74) ethylbenzene	13.309	91	1299555	49.74	ppb	89
75) m,p-xylene	13.493	106	1091673	98.33	ppb	91
76) o-xylene	13.906	106	624212	48.60	ppb	88
77) styrene	13.833	104	833138	49.60	ppb	99
78) bromoform	13.661	173	257082	50.51	ppb	98
79) trans-1,4-dichloro-2-b...	14.061	53	95930	57.51	ppb	89
81) isopropylbenzene	14.270	105	1763069	54.70	ppb	96
83) bromobenzene	14.557	156	458425	51.21	ppb #	76
84) 1,1,2,2-tetrachloroethane	13.912	83	344931	52.02	ppb	98
85) 1,2,3-trichloropropane	14.061	75	340703	53.25	ppb	99
86) n-propylbenzene	14.715	91	1764047	52.67	ppb	90
87) 2-chlorotoluene	14.832	91	1123937	50.65	ppb	81
88) 4-chlorotoluene	14.909	91	1087668	49.98	ppb	81
89) 1,3,5-trimethylbenzene	14.992	105	1649602	52.72	ppb	93
90) tert-butylbenzene	15.297	91	949353	48.20	ppb	86
91) 1,2,4-trimethylbenzene	15.400	105	1713978	54.31	ppb	97
92) sec-butylbenzene	15.520	105	2149524	55.05	ppb	92

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140804\
Data File : U21529.D
Acq On : 4 Aug 2014 9:52 am
Operator : garyk
Sample : bs
Misc : ms32403,msu957,,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 04 10:48:04 2014
Quant Method : D:\msdchem\1\methods\U140802W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Aug 04 09:37:40 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,3-dichlorobenzene	15.623	146	1001740	51.81	ppb	98
94) p-isopropyltoluene	15.693	119	1911741	53.01	ppb	95
95) 1,4-dichlorobenzene	15.690	146	1001666	51.14	ppb	98
96) 1,2-dichlorobenzene	16.058	146	1107949	52.75	ppb	96
97) n-butylbenzene	16.112	91	1624625	52.50	ppb	81
98) 1,2-dibromo-3-chloropr...	16.542	75	108574	50.45	ppb	81
99) 1,3,5-trichlorobenzene	17.351	180	980708	53.71	ug/L	96
100) 1,2,4-trichlorobenzene	17.889	180	964897	53.56	ppb	95
101) hexachlorobutadiene	18.179	225	434992	52.62	ppb	94
102) naphthalene	18.156	128	2378782	56.63	ppb	100
103) 2-Methylnaphthalene	19.520	142	1320355	55.61	ug/L	99
104) 1-Methylnaphthalene	19.768	142	1050069	54.52	ug/L	99
105) 1,2,3-trichlorobenzene	18.363	180	911591	54.63	ppb	92

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

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140804\
 Data File : U21530.D
 Acq On : 4 Aug 2014 10:19 am
 Operator : garyk
 Sample : bsd
 Misc : ms32403,msu957,,,,5,1
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 04 12:59:47 2014
 Quant Method : D:\msdchem\1\methods\U140802W.m
 Quant Title : SW-846 Method 8260
 QLast Update : Mon Aug 04 09:37:40 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.600	65	358703	50.00	ppb	0.00
4) pentafluorobenzene	8.974	168	811036	50.00	ppb	0.00
43) 1,4-difluorobenzene	9.842	114	1284900	50.00	ppb	0.00
66) chlorobenzene-d5	13.096	82	499007	50.00	ppb	# 0.00
80) 1,4-dichlorobenzene-d4	15.661	152	724421	50.00	ppb	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.613	113	486370	54.90	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	109.80%		
60) toluene-d8 (s)	11.638	98	1246216	57.81	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	115.62%		
82) bromofluorobenzene (s)	14.326	95	483829	57.74	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	115.48%		
Target Compounds						
						Qvalue
2) tertiary butyl alcohol	6.288	59	354351	642.09	ppb	89
3) Ethanol	5.581	45	579909	7057.01	ppb	100
5) dichlorodifluoromethane	4.334	85	550447	44.34	ppb	94
6) chloromethane	4.558	50	1049340	49.83	ppb	98
7) vinyl chloride	4.813	62	675891	46.34	ppb	93
8) bromomethane	5.287	96	407884	50.40	ppb	91
9) chloroethane	5.423	64	315700	57.86	ppb	99
10) ethyl ether	6.290	59	361818	52.25	ppb	84
11) acetonitrile	6.077	41	64142m	66.97	ppb	
12) trichlorofluoromethane	6.065	101	751728	43.03	ppb	97
13) freon-113	6.833	101	450344	52.00	ppb	84
14) acrolein	6.057	56	144409	294.11	ppb	99
15) 1,1-dichloroethene	6.632	96	374169	50.11	ppb	94
16) acetone	6.223	58	105095	52.64	ppb	# 81
17) Methyl Acetate	6.818	43	457165	60.51	ppb	# 92
18) methylene chloride	6.779	84	393603	47.94	ppb	85
19) methyl tert butyl ether	7.562	73	955447	49.80	ppb	88
20) acrylonitrile	6.692	53	192132	53.06	ppb	90
21) allyl chloride	6.873	41	827508	51.89	ppb	95
22) trans-1,2-dichloroethene	7.468	96	412465	47.72	ppb	90
23) iodomethane	6.689	142	833594	49.09	ppb	90
24) carbon disulfide	7.053	76	1157412	52.48	ppb	97
25) propionitrile	8.082	54	44914	58.19	ppb	100
26) vinyl acetate	7.820	43	634974	42.70	ppb	98
27) chloroprene	8.082	53	859980	62.49	ppb	92
28) di-isopropyl ether	8.122	45	1586276	49.96	ppb	94
29) methacrylonitrile	8.239	41	253013	52.50	ppb	89
30) 2-butanone	8.135	72	49356	51.88	ppb	# 59
31) Ethyl Acetate	8.119	43	1387636	51.28	ug/L	99
32) Hexane	8.105	41	675816	51.74	ppb	# 84
33) 1,1-dichloroethane	7.718	63	832554	50.34	ppb	100
34) tert-butyl ethyl ether	8.517	59	1392816	53.70	ppb	98
35) isobutyl alcohol	8.521	43	191575	180.98	ppb	87
36) 2,2-dichloropropane	8.575	77	545021	53.49	ppb	91

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140804\
 Data File : U21530.D
 Acq On : 4 Aug 2014 10:19 am
 Operator : garyk
 Sample : bsd
 Misc : ms32403,msu957,,,,5,1
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 04 12:59:47 2014
 Quant Method : D:\msdchem\1\methods\U140802W.m
 Quant Title : SW-846 Method 8260
 QLast Update : Mon Aug 04 09:37:40 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) cis-1,2-dichloroethene	8.288	96	447910	46.72	ppb	95
38) bromochloromethane	8.453	128	259819	48.88	ppb #	78
39) chloroform	8.491	83	713007	48.14	ppb	100
41) Tetrahydrofuran	8.831	42	135132	51.90	ppb	88
42) 1,1,1-trichloroethane	9.241	97	697333	50.30	ppb	99
44) Cyclohexane	9.525	56	850209	54.06	ppb	88
45) carbon tetrachloride	9.604	117	675326	50.39	ppb	99
46) 1,1-dichloropropene	9.416	75	444533	48.26	ppb	89
47) benzene	9.639	78	1285172	48.62	ppb	96
48) 1,2-dichloroethane	9.142	62	588030	49.76	ppb	99
49) tert-amyl methyl ether	9.762	73	931635	51.83	ppb	90
50) heptane	10.118	43	564030m	53.44	ppb	
51) trichloroethene	10.260	95	388364	48.13	ppb	73
52) 1,2-dichloropropane	10.227	63	384670	50.89	ppb	99
53) dibromomethane	10.202	93	235561	49.55	ppb	93
54) bromodichloromethane	10.314	83	518472	53.31	ppb	94
55) Methylcyclohexane	10.777	83	604435	54.10	ppb	87
56) 2-chloroethyl vinyl ether	10.697	63	151586	57.19	ppb	95
57) methyl methacrylate	10.413	69	137470	63.25	ppb #	74
58) 1,4-dioxane	10.446	88	8217	168.61	ppb	75
59) cis-1,3-dichloropropene	10.935	75	439191	53.76	ppb	89
61) 4-methyl-2-pentanone	11.043	43	378515	52.37	ppb	96
62) toluene	11.711	92	686100	51.17	ppb	95
63) trans-1,3-dichloropropene	11.356	75	361269	60.38	ppb	97
64) 1,1,2-trichloroethane	11.527	83	193955	53.16	ppb	93
65) ethyl methacrylate	11.736	69	246087	50.37	ppb	75
67) tetrachloroethene	12.454	166	365913	50.02	ppb	94
68) 1,3-dichloropropane	11.764	76	341405	50.97	ppb	85
69) dibromochloromethane	12.054	129	400236	50.50	ppb	98
70) 1,2-dibromoethane	12.305	107	277141	49.81	ppb	99
71) 2-hexanone	11.900	43	268833	47.46	ppb	96
72) chlorobenzene	13.133	112	892296	49.76	ppb	87
73) 1,1,1,2-tetrachloroethane	13.052	131	486956	47.28	ppb	97
74) ethylbenzene	13.309	91	1364320	49.26	ppb	90
75) m,p-xylene	13.493	106	1147916	97.54	ppb	83
76) o-xylene	13.906	106	652441	47.92	ppb	88
77) styrene	13.833	104	876954	49.25	ppb	99
78) bromoform	13.660	173	269233	49.90	ppb	98
79) trans-1,4-dichloro-2-b...	14.061	53	100814	57.02	ppb	88
81) isopropylbenzene	14.269	105	1829609	55.24	ppb	96
83) bromobenzene	14.557	156	485147	52.73	ppb #	74
84) 1,1,2,2-tetrachloroethane	13.911	83	360315	52.88	ppb	97
85) 1,2,3-trichloropropane	14.060	75	352040	53.54	ppb	100
86) n-propylbenzene	14.715	91	1876679	54.52	ppb	90
87) 2-chlorotoluene	14.832	91	1193787	52.35	ppb	84
88) 4-chlorotoluene	14.909	91	1149705	51.40	ppb	83
89) 1,3,5-trimethylbenzene	14.992	105	1718201	53.44	ppb	94
90) tert-butylbenzene	15.297	91	984471	48.61	ppb	89
91) 1,2,4-trimethylbenzene	15.401	105	1783271	54.98	ppb	97
92) sec-butylbenzene	15.520	105	2242037	55.87	ppb	93

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140804\
Data File : U21530.D
Acq On : 4 Aug 2014 10:19 am
Operator : garyk
Sample : bsd
Misc : ms32403,msu957,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 04 12:59:47 2014
Quant Method : D:\msdchem\1\methods\U140802W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Aug 04 09:37:40 2014
Response via : Initial Calibration

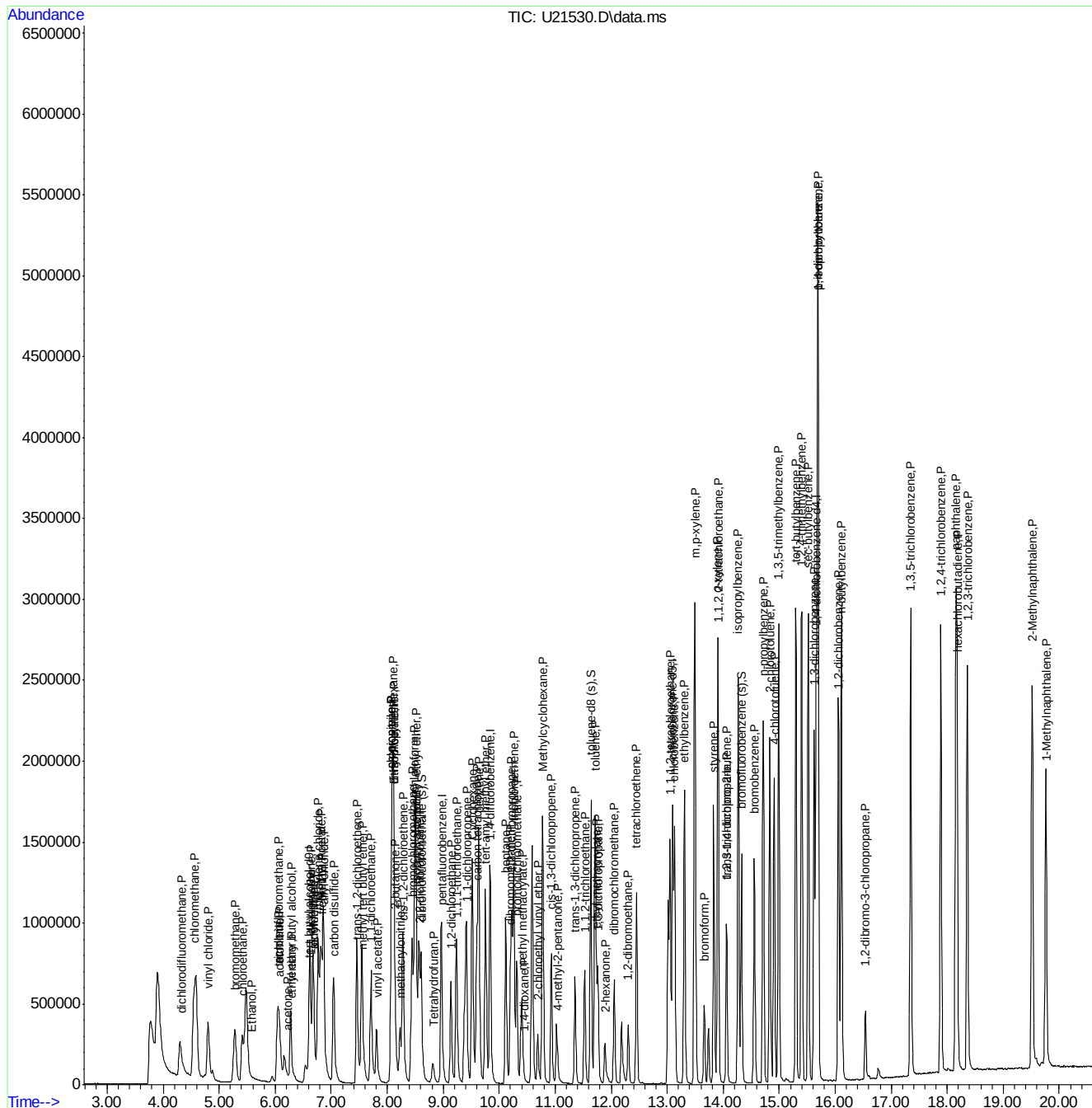
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,3-dichlorobenzene	15.623	146	1040691	52.37	ppb	97
94) p-isopropyltoluene	15.693	119	2008335	54.19	ppb	93
95) 1,4-dichlorobenzene	15.690	146	1040018	51.67	ppb	98
96) 1,2-dichlorobenzene	16.059	146	1148763	53.21	ppb	96
97) n-butylbenzene	16.112	91	1725734	54.26	ppb	80
98) 1,2-dibromo-3-chloropr...	16.540	75	108749	49.17	ppb #	72
99) 1,3,5-trichlorobenzene	17.351	180	1036056	55.21	ug/L	96
100) 1,2,4-trichlorobenzene	17.889	180	1005993	54.34	ppb	94
101) hexachlorobutadiene	18.178	225	457044	53.79	ppb	92
102) naphthalene	18.155	128	2465840	57.12	ppb	100
103) 2-Methylnaphthalene	19.520	142	1513080	62.01	ug/L	98
104) 1-Methylnaphthalene	19.767	142	1209157	61.09	ug/L	98
105) 1,2,3-trichlorobenzene	18.362	180	941874	54.92	ppb	96

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

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140804\
 Data File : U21530.D
 Acq On : 4 Aug 2014 10:19 am
 Operator : garyk
 Sample : bsd
 Misc : ms32403,msu957,,,,,5,1
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 04 12:59:47 2014
 Quant Method : D:\msdchem\1\methods\U140802W.m
 Quant Title : SW-846 Method 8260
 QLast Update : Mon Aug 04 09:37:40 2014
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140806\
 Data File : v33572.D
 Acq On : 6 Aug 2014 9:14 am
 Operator : amym
 Sample : bs
 Misc : MS32437,MSV1230,,,,5,1
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 06 10:26:49 2014
 Quant Method : C:\msdchem\1\METHODS\v140801w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Aug 01 17:44:41 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.520	65	27541	500.00	ug/L	0.02
4) pentafluorobenzene	6.571	168	168409	50.00	ug/L	0.03
43) 1,4-difluorobenzene	7.752	114	224574	50.00	ug/L	0.03
66) chlorobenzene-d5	11.086	82	99896	50.00	ug/L	0.02
80) 1,4-dichlorobenzene-d4	13.297	152	134345	50.00	ug/L	0.02
System Monitoring Compounds						
40) dibromofluoromethane (s)	6.451	113	95987	53.67	ug/L	0.03
Spiked Amount 50.000	Range 70 - 130		Recovery =	107.34%		
60) toluene-d8 (s)	9.561	98	237859	53.47	ug/L	0.02
Spiked Amount 50.000	Range 70 - 130		Recovery =	106.94%		
82) bromofluorobenzene (s)	12.235	95	104266	44.88	ug/L	0.02
Spiked Amount 50.000	Range 70 - 130		Recovery =	89.76%		
Target Compounds						
					Qvalue	
2) tertiary butyl alcohol	3.632	59	19488	420.17	ug/L	98
3) Ethanol	2.500	45	41683	11997.97	ug/L #	100
5) dichlorodifluoromethane	1.504	85	276383	36.53	ug/L	99
6) chloromethane	1.617	50	211815	48.93	ug/L	95
7) vinyl chloride	1.730	62	197455	45.71	ug/L	98
8) bromomethane	2.017	96	130272	49.33	ug/L	99
9) chloroethane	2.111	64	88377	59.57	ug/L	97
10) ethyl ether	2.611	59	83871	58.03	ug/L	97
11) acetonitrile	3.301	41	233906	68.29	ug/L #	20
12) trichlorofluoromethane	2.350	101	321276	50.99	ug/L	100
13) freon-113	2.919	101	163346	51.06	ug/L	98
14) acrolein	2.761	56	37828	202.06	ug/L	99
15) 1,1-dichloroethene	2.872	96	120338	60.36	ug/L	88
16) acetone	2.913	58	11261	38.81	ug/L	89
17) Methyl Acetate	3.288	43	66125	70.88	ug/L	99
18) methylene chloride	3.471	84	117211	52.83	ug/L	94
19) methyl tert butyl ether	3.849	73	199595	51.39	ug/L	98
20) acrylonitrile	3.789	53	32520	65.42	ug/L	98
21) allyl chloride	3.301	41	233772	68.25	ug/L	96
22) trans-1,2-dichloroethene	3.844	96	112622	57.95	ug/L	91
23) iodomethane	3.040	142	287677	53.04	ug/L	93
24) carbon disulfide	3.124	76	426938	73.79	ug/L	98
25) propionitrile	5.654	54	8343	64.37	ug/L	100
26) vinyl acetate	4.596	43	291565	60.72	ug/L	94
27) chloroprene	4.633	53	232383	88.47	ug/L	91
28) di-isopropyl ether	4.619	45	418279	66.30	ug/L	98
29) methacrylonitrile	5.928	41	42124	65.66	ug/L	96
30) 2-butanone	5.544	72	6042	47.39	ug/L #	89
31) Hexane	4.263	41	123075	74.52	ug/L	96
32) 1,1-dichloroethane	4.522	63	227004	62.51	ug/L	99
33) tert-butyl ethyl ether	5.285	59	250319	60.37	ug/L	97
34) isobutyl alcohol	4.596	43	291581	301.68	ug/L	89
35) 2,2-dichloropropane	5.560	77	120146	55.73	ug/L	95
36) cis-1,2-dichloroethene	5.543	96	99469	56.70	ug/L	90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140806\
 Data File : v33572.D
 Acq On : 6 Aug 2014 9:14 am
 Operator : amym
 Sample : bs
 Misc : MS32437,MSV1230,,,,5,1
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 06 10:26:49 2014
 Quant Method : C:\msdchem\1\METHODS\v140801w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Aug 01 17:44:41 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) ethyl acetate	4.597	43	291577m	60.74	ug/L	
38) bromochloromethane	5.963	128	47524	56.15	ug/L	94
39) chloroform	6.181	83	191100	60.20	ug/L	99
41) Tetrahydrofuran	5.972	42	14863	63.80	ug/L	92
42) 1,1,1-trichloroethane	6.427	97	184467	66.42	ug/L	97
44) Cyclohexane	6.535	56	211632	68.27	ug/L	91
45) carbon tetrachloride	6.682	117	187092	61.20	ug/L	100
46) 1,1-dichloropropene	6.694	75	121573	61.18	ug/L	93
47) benzene	7.014	78	297706	56.17	ug/L	100
48) 1,2-dichloroethane	7.137	62	141172	62.06	ug/L	100
49) tert-amyl methyl ether	7.301	73	145035	58.98	ug/L	99
50) heptane	7.570	43	118545	74.25	ug/L	98
51) trichloroethene	8.044	95	91689	56.49	ug/L	94
52) 1,2-dichloropropane	8.392	63	91854	61.85	ug/L	100
53) dibromomethane	8.495	93	47766	61.10	ug/L	96
54) bromodichloromethane	8.746	83	116939	71.46	ug/L	97
55) Methylcyclohexane	8.347	83	126830	63.97	ug/L	93
56) 2-chloroethyl vinyl ether	9.120	63	23364	56.94	ug/L	97
57) methyl methacrylate	8.524	69	25455	50.25	ug/L	98
59) cis-1,3-dichloropropene	9.273	75	92080	59.39	ug/L	96
61) 4-methyl-2-pentanone	9.457	43	52919	63.70	ug/L	98
62) toluene	9.637	92	178976	60.32	ug/L	100
63) trans-1,3-dichloropropene	9.924	75	69206	58.96	ug/L	95
64) 1,1,2-trichloroethane	10.128	83	41113	58.26	ug/L	97
65) ethyl methacrylate	10.005	69	48968	51.93	ug/L	98
67) tetrachloroethene	10.190	166	89675	51.59	ug/L	96
68) 1,3-dichloropropane	10.291	76	81047	51.98	ug/L	99
69) dibromochloromethane	10.511	129	70939	54.81	ug/L	99
70) 1,2-dibromoethane	10.620	107	51790	53.22	ug/L	97
71) 2-hexanone	10.364	43	39002	44.73	ug/L	98
72) chlorobenzene	11.116	112	206322	53.53	ug/L	99
73) 1,1,1,2-tetrachloroethane	11.216	131	93371	49.83	ug/L	98
74) ethylbenzene	11.221	91	393961	56.24	ug/L	99
75) m,p-xylene	11.352	106	301910	112.20	ug/L	93
76) o-xylene	11.718	106	154081	57.13	ug/L	97
77) styrene	11.739	104	236963	59.87	ug/L	97
78) bromoform	11.913	173	37123	53.87	ug/L	100
79) trans-1,4-dichloro-2-b...	12.130	53	17146	46.50	ug/L	96
81) isopropylbenzene	12.070	105	438314	53.78	ug/L	98
83) bromobenzene	12.360	156	101432	47.32	ug/L	99
84) 1,1,2,2-tetrachloroethane	12.365	83	62602	47.97	ug/L	99
85) 1,2,3-trichloropropane	12.404	75	73537	51.66	ug/L	96
86) n-propylbenzene	12.458	91	508063	55.07	ug/L	98
87) 2-chlorotoluene	12.537	91	311537	52.32	ug/L	100
88) 4-chlorotoluene	12.648	91	371204	54.67	ug/L	94
89) 1,3,5-trimethylbenzene	12.627	105	400860	53.53	ug/L	96
90) tert-butylbenzene	12.913	91	221542	58.07	ug/L	92
91) 1,2,4-trimethylbenzene	12.967	105	427727	56.76	ug/L	99
92) sec-butylbenzene	13.116	105	486782	58.74	ug/L	98
93) 1,3-dichlorobenzene	13.224	146	222350	52.01	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140806\
 Data File : v33572.D
 Acq On : 6 Aug 2014 9:14 am
 Operator : amym
 Sample : bs
 Misc : MS32437,MSV1230,,,,,5,1
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 06 10:26:49 2014
 Quant Method : C:\msdchem\1\METHODS\v140801w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Aug 01 17:44:41 2014
 Response via : Initial Calibration

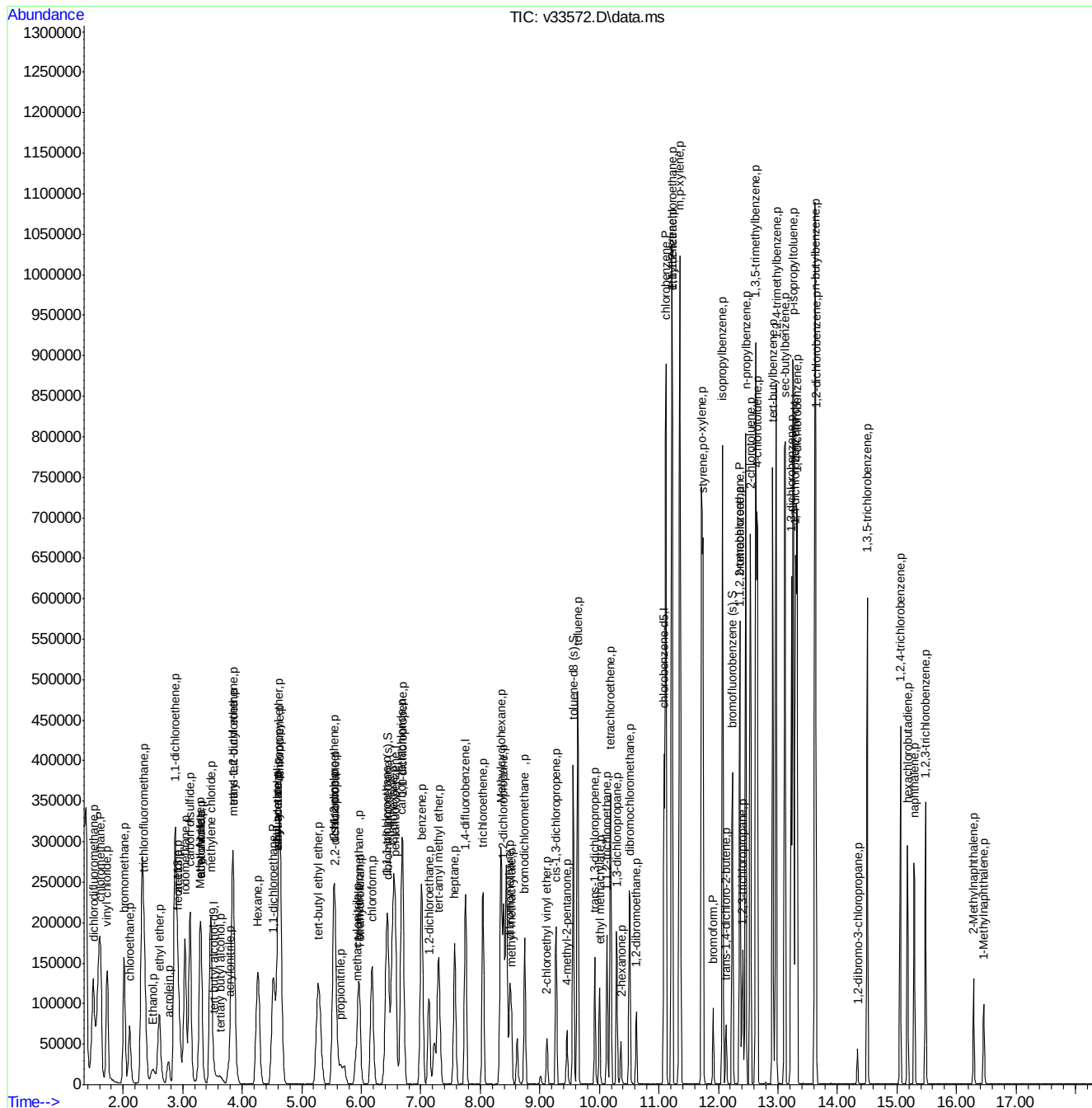
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94)	p-isopropyltoluene	13.257	119	448877	59.12	ug/L	97
95)	1,4-dichlorobenzene	13.319	146	233195	53.97	ug/L	99
96)	1,2-dichlorobenzene	13.637	146	218143	53.76	ug/L	99
97)	n-butylbenzene	13.621	91	391303	62.13	ug/L	97
98)	1,2-dibromo-3-chloropr...	14.337	75	9234	48.16	ug/L	97
99)	1,3,5-trichlorobenzene	14.502	180	152475	50.31	ug/L	100
100)	1,2,4-trichlorobenzene	15.057	180	112381	46.85	ug/L	97
101)	hexachlorobutadiene	15.178	225	46084	47.82	ug/L	98
102)	naphthalene	15.291	128	174795	51.64	ug/L	100
103)	1,2,3-trichlorobenzene	15.480	180	89482	46.05	ug/L	99
104)	2-Methylnaphthalene	16.290	142	55362	45.43	ug/L	100
105)	1-Methylnaphthalene	16.460	142	42639	44.59	ug/L	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140806\
Data File : v33572.D
Acq On : 6 Aug 2014 9:14 am
Operator : amym
Sample : bs
Misc : MS32437,MSV1230,,,5,1
ALS Vial : 3 Sample Multiplier: 1

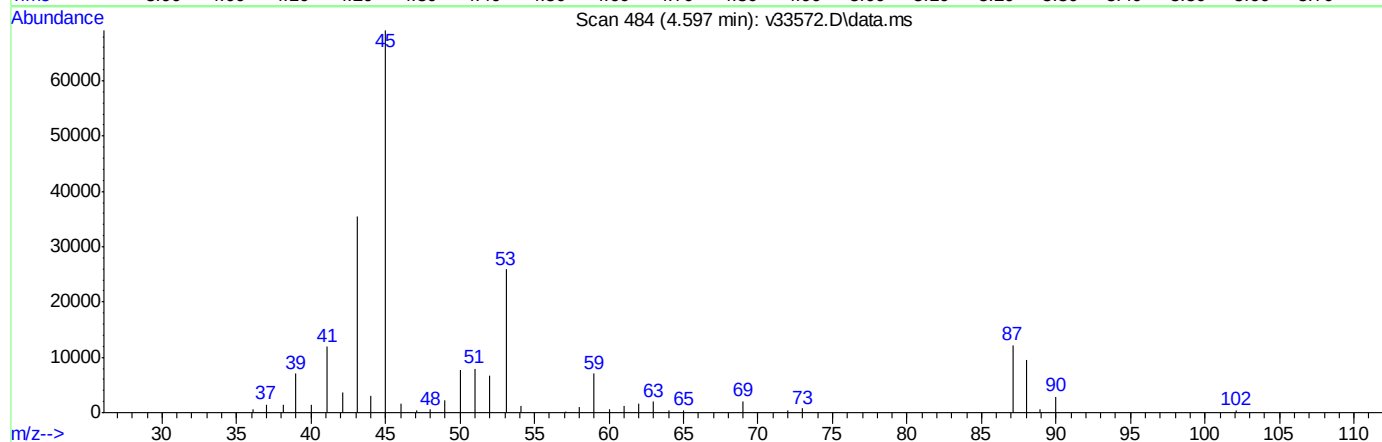
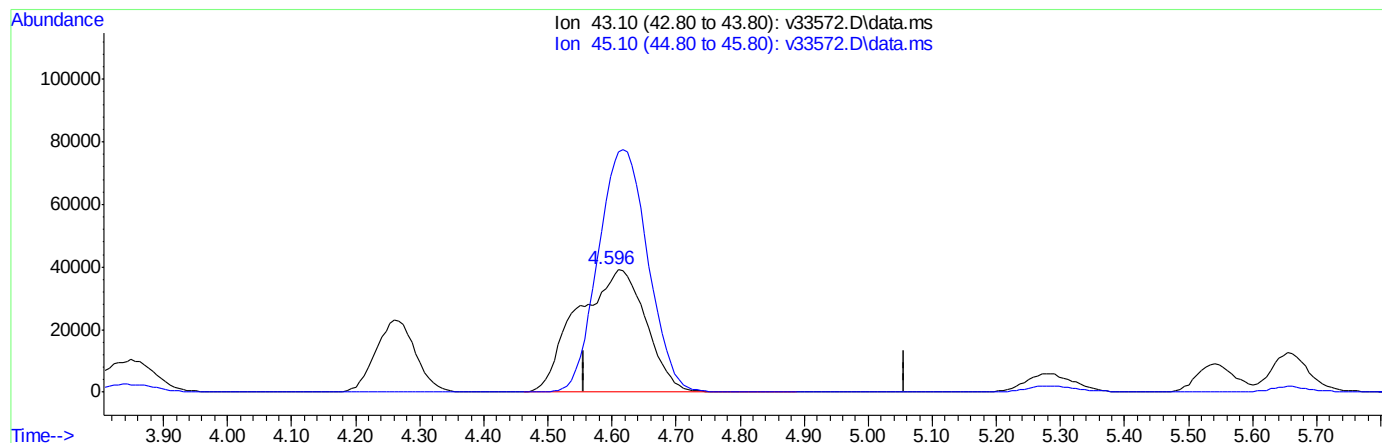
Quant Time: Aug 06 10:26:49 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 17:44:41 2014
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140806\
Data File : v33572.D
Acq On : 6 Aug 2014 9:14 am
Operator : amym
Sample : bs
Misc : MS32437,MSV1230,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 06 09:52:05 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 17:44:41 2014
Response via : Initial Calibration



(37) ethyl acetate (p)

4.597min (+0.040) 60.74ug/L m

response 291577

Ion	Exp%	Act%
43.10	100	100
45.10	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140806\
 Data File : v33573.D
 Acq On : 6 Aug 2014 9:40 am
 Operator : amym
 Sample : bsd
 Misc : MS32437,MSV1230,,,,5,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 10:27:53 2014
 Quant Method : C:\msdchem\1\METHODS\v140801w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Aug 01 17:44:41 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.520	65	29791	500.00	ug/L	0.02
4) pentafluorobenzene	6.570	168	168551	50.00	ug/L	0.03
43) 1,4-difluorobenzene	7.751	114	226522	50.00	ug/L	0.03
66) chlorobenzene-d5	11.086	82	100844	50.00	ug/L	0.02
80) 1,4-dichlorobenzene-d4	13.297	152	137022	50.00	ug/L	0.01
System Monitoring Compounds						
40) dibromofluoromethane (s)	6.449	113	95065	53.11	ug/L	0.03
Spiked Amount 50.000	Range 70 - 130		Recovery =	106.22%		
60) toluene-d8 (s)	9.561	98	241424	53.81	ug/L	0.02
Spiked Amount 50.000	Range 70 - 130		Recovery =	107.62%		
82) bromofluorobenzene (s)	12.234	95	106574	44.98	ug/L	0.01
Spiked Amount 50.000	Range 70 - 130		Recovery =	89.96%		
Target Compounds						
					Qvalue	
2) tertiary butyl alcohol	3.629	59	21185	422.27	ug/L	99
3) Ethanol	2.501	45	50785	13579.77	ug/L #	100
5) dichlorodifluoromethane	1.505	85	276320m	36.49	ug/L	
6) chloromethane	1.619	50	226230	52.84	ug/L	99
7) vinyl chloride	1.729	62	198863	46.04	ug/L	98
8) bromomethane	2.017	96	127873	48.22	ug/L	97
9) chloroethane	2.110	64	90138	60.96	ug/L	99
10) ethyl ether	2.607	59	71797	48.15	ug/L	99
11) acetonitrile	3.298	41	227670	66.41	ug/L #	21
12) trichlorofluoromethane	2.349	101	317660	50.27	ug/L	100
13) freon-113	2.921	101	161105	50.25	ug/L	93
14) acrolein	2.756	56	39341	210.69	ug/L	100
15) 1,1-dichloroethene	2.869	96	116901	58.58	ug/L	84
16) acetone	2.908	58	11018	37.90	ug/L #	80
17) Methyl Acetate	3.284	43	68374	73.22	ug/L	97
18) methylene chloride	3.468	84	115121	51.84	ug/L	93
19) methyl tert butyl ether	3.847	73	205450	52.85	ug/L	98
20) acrylonitrile	3.785	53	33004	66.34	ug/L	96
21) allyl chloride	3.298	41	227163	66.27	ug/L	96
22) trans-1,2-dichloroethene	3.841	96	109340	56.22	ug/L	90
23) iodomethane	3.036	142	281451	51.85	ug/L	94
24) carbon disulfide	3.121	76	411084	70.99	ug/L	98
25) propionitrile	5.647	54	8077	62.50	ug/L	100
26) vinyl acetate	4.593	43	291823	60.72	ug/L	94
27) chloroprene	4.630	53	222308	84.56	ug/L	91
28) di-isopropyl ether	4.616	45	416068	65.89	ug/L	99
29) methacrylonitrile	5.925	41	42291	65.86	ug/L	97
30) 2-butanone	5.537	72	5916	46.44	ug/L #	74
31) Hexane	4.261	41	118833	71.89	ug/L	96
32) 1,1-dichloroethane	4.519	63	218143	60.02	ug/L	99
33) tert-butyl ethyl ether	5.282	59	249345	60.09	ug/L	99
34) isobutyl alcohol	4.593	43	291817	301.67	ug/L	92
35) 2,2-dichloropropane	5.558	77	114407	53.03	ug/L	97
36) cis-1,2-dichloroethene	5.540	96	96138	54.76	ug/L	88

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140806\
 Data File : v33573.D
 Acq On : 6 Aug 2014 9:40 am
 Operator : amym
 Sample : bsd
 Misc : MS32437,MSV1230,,,,5,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 10:27:53 2014
 Quant Method : C:\msdchem\1\METHODS\v140801w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Aug 01 17:44:41 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) ethyl acetate	4.591	43	291673m	60.71	ug/L	
38) bromochloromethane	5.960	128	46916	55.38	ug/L	90
39) chloroform	6.178	83	183394	57.73	ug/L	97
41) Tetrahydrofuran	5.970	42	15565	66.60	ug/L	93
42) 1,1,1-trichloroethane	6.425	97	178695	64.29	ug/L	97
44) Cyclohexane	6.533	56	199667	63.85	ug/L	94
45) carbon tetrachloride	6.680	117	178955	58.10	ug/L	99
46) 1,1-dichloropropene	6.693	75	117670	58.71	ug/L	94
47) benzene	7.012	78	290454	54.31	ug/L	98
48) 1,2-dichloroethane	7.136	62	138914	60.54	ug/L	99
49) tert-amyl methyl ether	7.299	73	146925	59.23	ug/L	99
50) heptane	7.569	43	114312	70.98	ug/L	97
51) trichloroethene	8.043	95	89134	54.44	ug/L	96
52) 1,2-dichloropropane	8.391	63	91105	60.82	ug/L	100
53) dibromomethane	8.495	93	48129	61.04	ug/L	95
54) bromodichloromethane	8.745	83	115226	69.81	ug/L	99
55) Methylcyclohexane	8.347	83	121514	60.76	ug/L	93
56) 2-chloroethyl vinyl ether	9.120	63	24645	59.54	ug/L	97
57) methyl methacrylate	8.524	69	26657	52.02	ug/L	95
59) cis-1,3-dichloropropene	9.272	75	91986	58.87	ug/L	97
61) 4-methyl-2-pentanone	9.457	43	55716	66.49	ug/L	97
62) toluene	9.636	92	175270	58.56	ug/L	99
63) trans-1,3-dichloropropene	9.923	75	70913	59.82	ug/L	94
64) 1,1,2-trichloroethane	10.128	83	42521	59.74	ug/L	100
65) ethyl methacrylate	10.004	69	51860	54.28	ug/L	98
67) tetrachloroethene	10.189	166	87035	49.60	ug/L	96
68) 1,3-dichloropropane	10.290	76	82196	52.22	ug/L	98
69) dibromochloromethane	10.510	129	72175	55.22	ug/L	97
70) 1,2-dibromoethane	10.619	107	53557	54.52	ug/L	97
71) 2-hexanone	10.363	43	41263	46.88	ug/L	98
72) chlorobenzene	11.116	112	208292	53.54	ug/L	99
73) 1,1,1,2-tetrachloroethane	11.216	131	91066	48.17	ug/L	97
74) ethylbenzene	11.220	91	388644	54.95	ug/L	98
75) m,p-xylene	11.351	106	301804	111.11	ug/L	94
76) o-xylene	11.718	106	152342	55.96	ug/L	94
77) styrene	11.738	104	239587	59.96	ug/L	97
78) bromoform	11.913	173	39083	55.93	ug/L	97
79) trans-1,4-dichloro-2-b...	12.129	53	18044	48.32	ug/L	97
81) isopropylbenzene	12.069	105	429798	51.70	ug/L	100
83) bromobenzene	12.360	156	103084	47.15	ug/L	96
84) 1,1,2,2-tetrachloroethane	12.364	83	66303	49.82	ug/L	99
85) 1,2,3-trichloropropane	12.404	75	77783	53.58	ug/L	98
86) n-propylbenzene	12.458	91	504991	53.67	ug/L	97
87) 2-chlorotoluene	12.537	91	314974	51.86	ug/L	98
88) 4-chlorotoluene	12.648	91	372535	53.79	ug/L	95
89) 1,3,5-trimethylbenzene	12.627	105	395608	51.80	ug/L	96
90) tert-butylbenzene	12.913	91	217492	55.89	ug/L	94
91) 1,2,4-trimethylbenzene	12.967	105	426133	55.45	ug/L	97
92) sec-butylbenzene	13.115	105	473628	56.04	ug/L	100
93) 1,3-dichlorobenzene	13.224	146	222647	51.06	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140806\
Data File : v33573.D
Acq On : 6 Aug 2014 9:40 am
Operator : amym
Sample : bsd
Misc : MS32437,MSV1230,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 10:27:53 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 17:44:41 2014
Response via : Initial Calibration

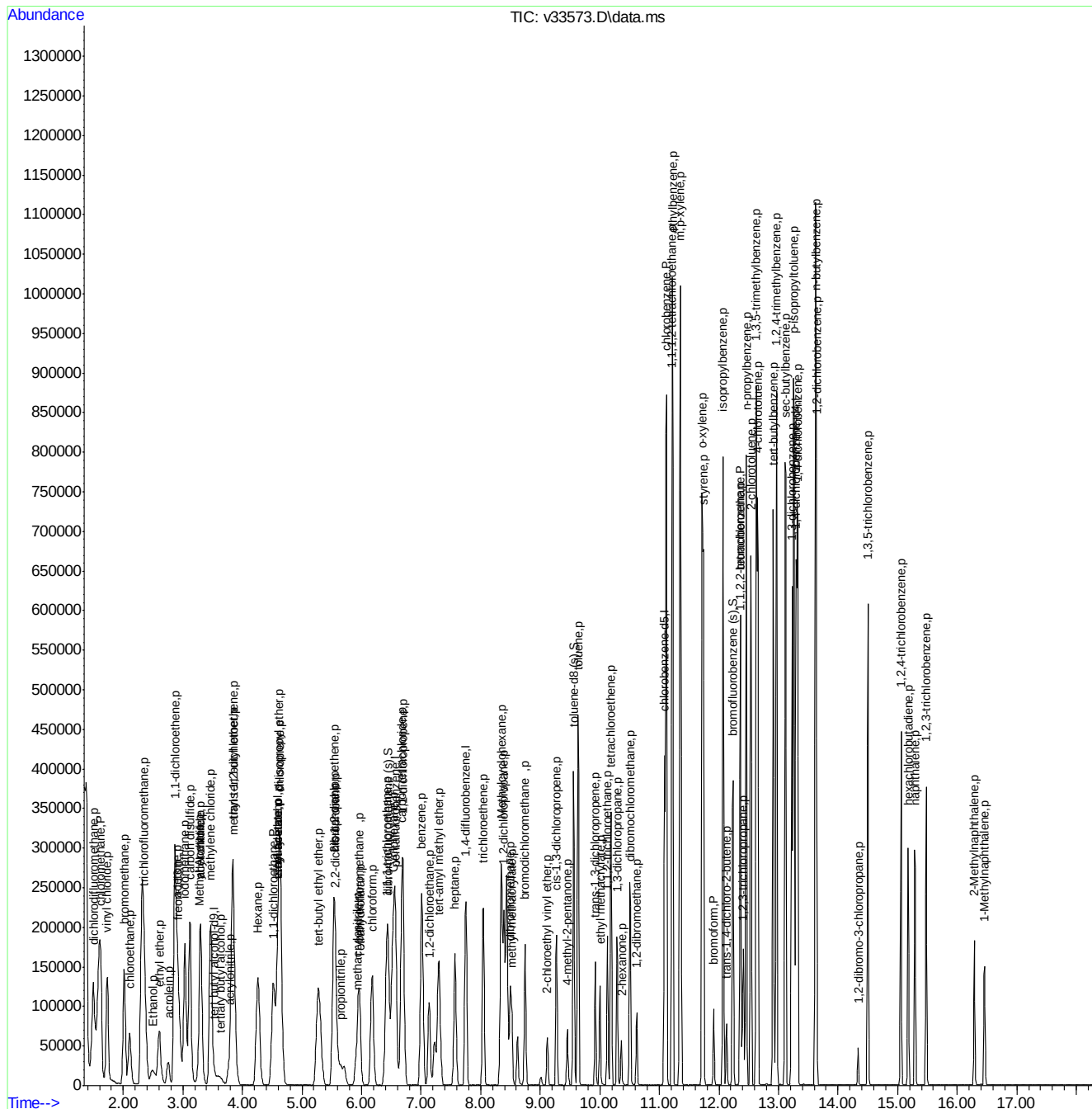
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) p-isopropyltoluene	13.256	119	447964	57.85	ug/L	97
95) 1,4-dichlorobenzene	13.319	146	240459	54.56	ug/L	99
96) 1,2-dichlorobenzene	13.636	146	224488	54.24	ug/L	100
97) n-butylbenzene	13.621	91	392213	61.06	ug/L	98
98) 1,2-dibromo-3-chloropr...	14.337	75	9972	50.68	ug/L	99
99) 1,3,5-trichlorobenzene	14.502	180	154759	50.06	ug/L	100
100) 1,2,4-trichlorobenzene	15.057	180	118422	48.41	ug/L	97
101) hexachlorobutadiene	15.178	225	46521	47.33	ug/L	97
102) naphthalene	15.291	128	191897	55.58	ug/L	100
103) 1,2,3-trichlorobenzene	15.480	180	98352	49.63	ug/L	97
104) 2-Methylnaphthalene	16.289	142	80668	60.97	ug/L	99
105) 1-Methylnaphthalene	16.459	142	65584	63.52	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140806\
Data File : v33573.D
Acq On : 6 Aug 2014 9:40 am
Operator : amym
Sample : bsd
Misc : MS32437,MSV1230,,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 10:27:53 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 17:44:41 2014
Response via : Initial Calibration



v140801w.m Wed Aug 06 10:29:23 2014

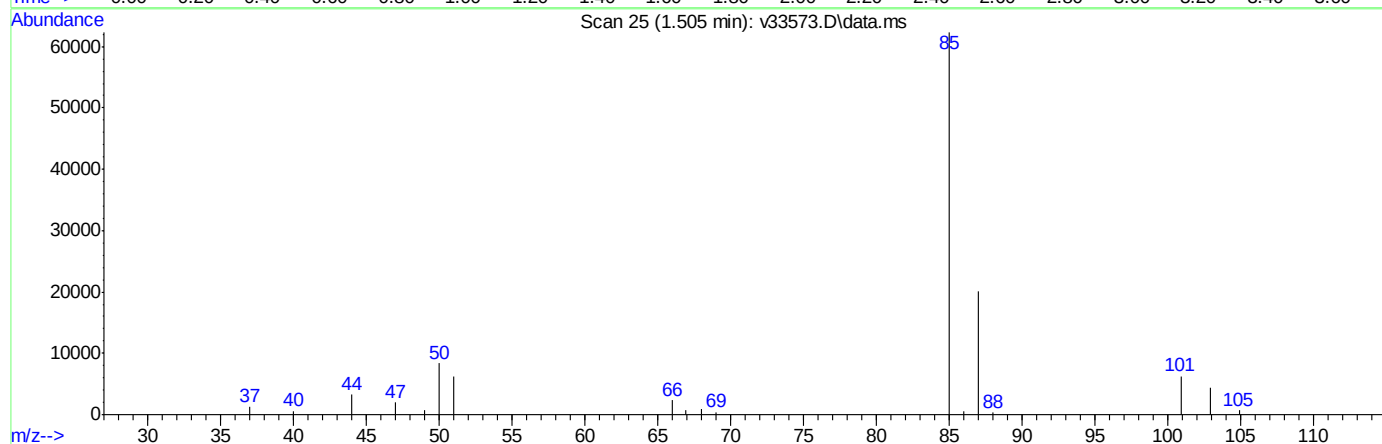
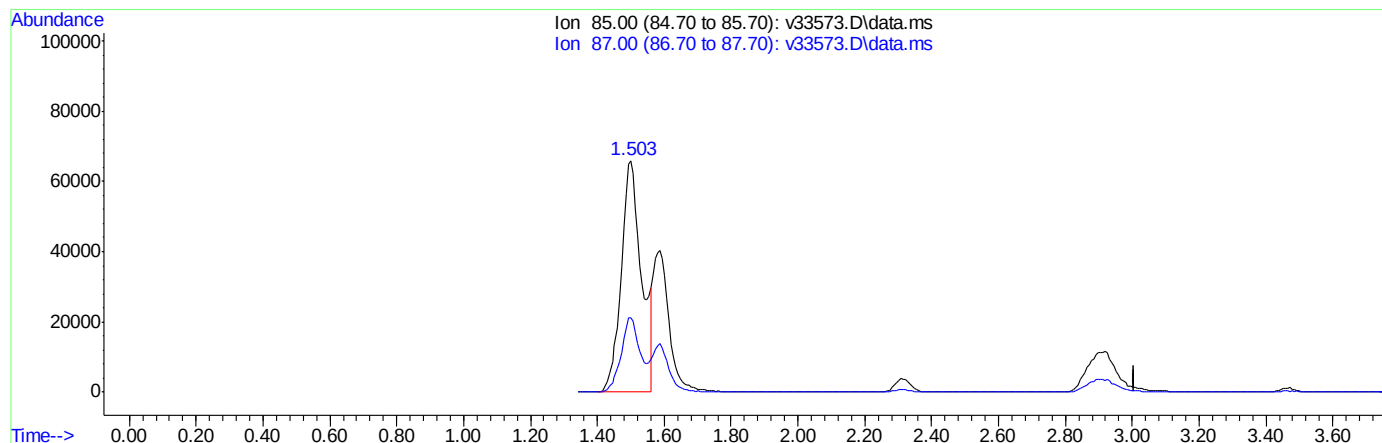
Page: 4

7.3.4

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140806\
Data File : v33573.D
Acq On : 6 Aug 2014 9:40 am
Operator : amym
Sample : bsd
Misc : MS32437,MSV1230,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 10:01:09 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 17:44:41 2014
Response via : Initial Calibration



TIC: v33573.D\data.ms

(5) dichlorodifluoromethane (p)

1.505min (+0.020) 36.49ug/L m

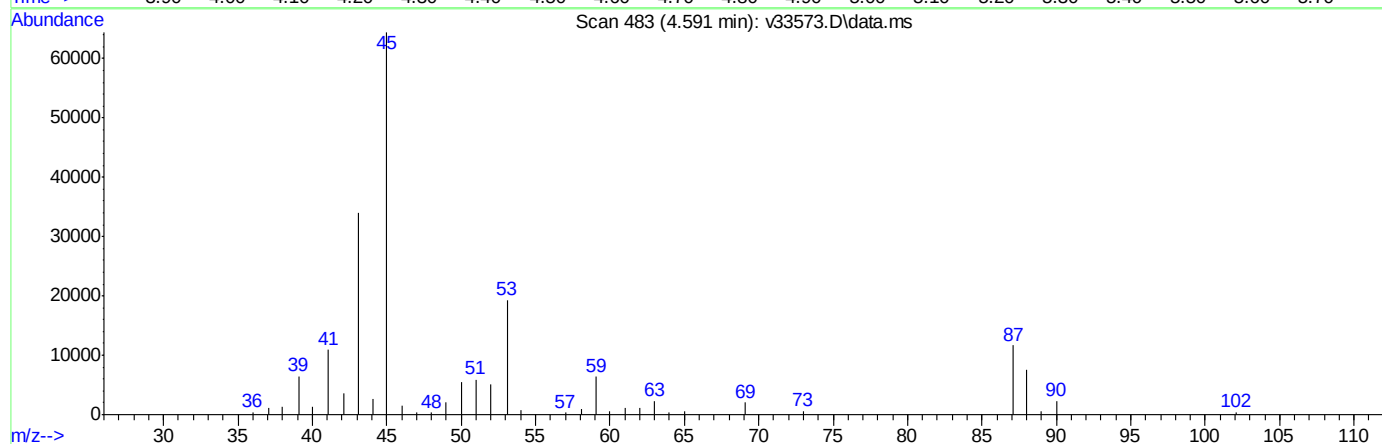
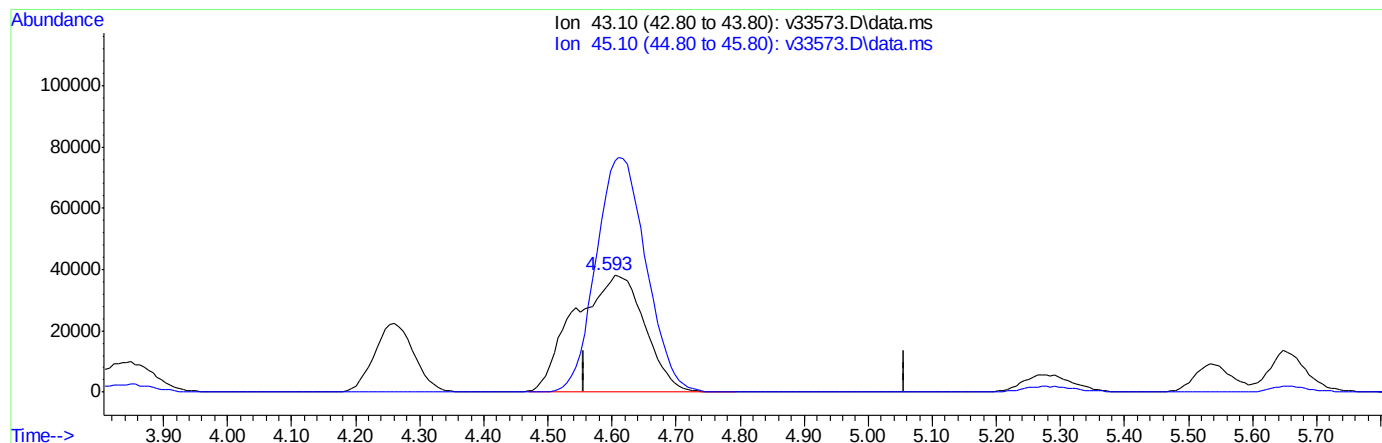
response 276320

Ion	Exp%	Act%
85.00	100	100
87.00	33.00	32.36
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140806\
Data File : v33573.D
Acq On : 6 Aug 2014 9:40 am
Operator : amym
Sample : bsd
Misc : MS32437,MSV1230,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 10:01:09 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 17:44:41 2014
Response via : Initial Calibration



(37) ethyl acetate (p)

4.591min (+0.034) 60.71ug/L m

response 291673

Ion	Exp%	Act%
43.10	100	100
45.10	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140804\
 Data File : U21552.D
 Acq On : 4 Aug 2014 8:21 pm
 Operator : garyk
 Sample : mc32460-4ms
 Misc : ms32429,msu957,,,,5,1
 ALS Vial : 27 Sample Multiplier: 1

Quant Time: Aug 05 08:30:18 2014
 Quant Method : D:\msdchem\1\methods\U140802W.m
 Quant Title : SW-846 Method 8260
 QLast Update : Mon Aug 04 09:37:40 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.617	65	274804	50.00	ppb	0.02
4) pentafluorobenzene	8.973	168	781369	50.00	ppb	0.00
43) 1,4-difluorobenzene	9.842	114	1238002	50.00	ppb	0.00
66) chlorobenzene-d5	13.096	82	445066	50.00	ppb	# 0.00
80) 1,4-dichlorobenzene-d4	15.661	152	673586	50.00	ppb	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.613	113	484371	56.75	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	113.50%		
60) toluene-d8 (s)	11.638	98	1154380	55.58	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	111.16%		
82) bromofluorobenzene (s)	14.326	95	419122	53.79	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	107.58%		
Target Compounds						
						Qvalue
2) tertiary butyl alcohol	6.288	59	357550	845.69	ppb	93
3) Ethanol	5.566	45	355179	5641.83	ppb	96
5) dichlorodifluoromethane	4.342	85	531335	44.43	ppb	99
6) chloromethane	4.554	50	1003784	49.47	ppb	98
7) vinyl chloride	4.812	62	671127	47.76	ppb	96
8) bromomethane	5.282	96	377436	48.40	ppb	91
9) chloroethane	5.422	64	321682	61.19	ppb	100
10) ethyl ether	6.288	59	357960	53.65	ppb	88
11) acetonitrile	6.092	41	49429	52.89	ppb	# 56
12) trichlorofluoromethane	6.064	101	748616	44.48	ppb	99
13) freon-113	6.833	101	428377	51.34	ppb	88
14) acrolein	6.074	56	90127	190.53	ppb	75
15) 1,1-dichloroethene	6.631	96	405790	56.40	ppb	96
16) acetone	6.206	58	38142	19.83	ppb	97
17) Methyl Acetate	6.821	43	370808	50.94	ppb	# 92
18) methylene chloride	6.781	84	385514	48.74	ppb	84
19) methyl tert butyl ether	7.565	73	925083	50.05	ppb	89
20) acrylonitrile	6.712	53	165975	47.57	ppb	86
21) allyl chloride	6.876	41	689468	44.88	ppb	93
22) trans-1,2-dichloroethene	7.466	96	402052	48.28	ppb	95
23) iodomethane	6.689	142	816570	49.91	ppb	94
24) carbon disulfide	7.053	76	977642	46.01	ppb	94
25) propionitrile	8.081	54	45729	61.50	ppb	100
26) vinyl acetate	7.819	43	568019	39.65	ppb	97
27) chloroprene	8.082	53	852735	64.31	ppb	93
28) di-isopropyl ether	8.122	45	1600588	52.32	ppb	97
29) methacrylonitrile	8.241	41	220620	47.52	ppb	94
30) 2-butanone	8.131	72	26961	29.42	ppb	# 1
31) Ethyl Acetate	8.117	43	1243955	47.72	ug/L	89
32) Hexane	8.104	41	642849	51.09	ppb	# 77
33) 1,1-dichloroethane	7.718	63	2343237	147.07	ppb	99
34) tert-butyl ethyl ether	8.518	59	1343614	53.77	ppb	97
35) isobutyl alcohol	8.523	43	189410	185.72	ppb	83
36) 2,2-dichloropropane	8.576	77	500696	51.01	ppb	92

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140804\
Data File : U21552.D
Acq On : 4 Aug 2014 8:21 pm
Operator : garyk
Sample : mc32460-4ms
Misc : ms32429,msu957,,,,5,1
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Aug 05 08:30:18 2014
Quant Method : D:\msdchem\1\methods\U140802W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Aug 04 09:37:40 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) cis-1,2-dichloroethene	8.288	96	467593	50.62	ppb	95
38) bromochloromethane	8.454	128	252446	49.30	ppb #	84
39) chloroform	8.492	83	728435	51.05	ppb	99
41) Tetrahydrofuran	8.840	42	118303	47.16	ppb	98
42) 1,1,1-trichloroethane	9.241	97	1581688	118.43	ppb	99
44) Cyclohexane	9.525	56	812678	53.63	ppb	89
45) carbon tetrachloride	9.604	117	641687	49.70	ppb	96
46) 1,1-dichloropropene	9.416	75	450859	50.80	ppb	88
47) benzene	9.640	78	1278441	50.20	ppb	95
48) 1,2-dichloroethane	9.140	62	568822	49.96	ppb	98
49) tert-amyl methyl ether	9.763	73	897549	51.83	ppb	90
50) heptane	10.263	43	77433	7.61	ppb	56
51) trichloroethene	10.261	95	400451	51.51	ppb	72
52) 1,2-dichloropropane	10.228	63	371826	51.05	ppb	100
53) dibromomethane	10.201	93	223181	48.73	ppb	97
54) bromodichloromethane	10.315	83	504056	53.79	ppb	97
55) Methylcyclohexane	10.778	83	567023	52.67	ppb	87
56) 2-chloroethyl vinyl ether	10.767	63	8114	4.56	ppb #	1
57) methyl methacrylate	10.416	69	109361	52.22	ppb #	78
58) 1,4-dioxane	10.429	88	4604	99.88	ppb	85
59) cis-1,3-dichloropropene	10.936	75	365498	46.43	ppb	85
61) 4-methyl-2-pentanone	11.042	43	327936	47.09	ppb	97
62) toluene	11.711	92	644602	49.90	ppb	98
63) trans-1,3-dichloropropene	11.357	75	273674	47.48	ppb	96
64) 1,1,2-trichloroethane	11.530	83	171621	48.82	ppb	96
65) ethyl methacrylate	11.738	69	208644	44.32	ppb	75
67) tetrachloroethene	12.453	166	338458	51.88	ppb	94
68) 1,3-dichloropropane	11.763	76	290225	48.58	ppb	94
69) dibromochloromethane	12.054	129	352834	49.92	ppb	99
70) 1,2-dibromoethane	12.307	107	234154	47.18	ppb	100
71) 2-hexanone	11.910	43	146787	29.06	ppb	94
72) chlorobenzene	13.134	112	806246	50.41	ppb	85
73) 1,1,1,2-tetrachloroethane	13.053	131	464808	50.60	ppb	95
74) ethylbenzene	13.309	91	1253996	50.76	ppb	91
75) m,p-xylene	13.493	106	1049723	100.00	ppb	85
76) o-xylene	13.906	106	620939	51.13	ppb	88
77) styrene	13.834	104	718747	45.25	ppb	99
78) bromoform	13.660	173	224428	46.64	ppb	99
79) trans-1,4-dichloro-2-b...	14.062	53	69796	44.26	ppb #	70
81) isopropylbenzene	14.269	105	1713570	55.64	ppb	96
83) bromobenzene	14.558	156	427749	50.00	ppb #	75
84) 1,1,2,2-tetrachloroethane	13.912	83	329643	52.03	ppb	96
85) 1,2,3-trichloropropane	14.061	75	293345	47.98	ppb	99
86) n-propylbenzene	14.715	91	1689778	52.80	ppb	90
87) 2-chlorotoluene	14.832	91	1094989	51.64	ppb	81
88) 4-chlorotoluene	14.909	91	1032405	49.64	ppb	83
89) 1,3,5-trimethylbenzene	14.992	105	1554068	51.98	ppb	95
90) tert-butylbenzene	15.297	91	898908	47.78	ppb	87
91) 1,2,4-trimethylbenzene	15.401	105	1622091	53.78	ppb	99
92) sec-butylbenzene	15.520	105	1984121	53.18	ppb	90

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140804\
 Data File : U21552.D
 Acq On : 4 Aug 2014 8:21 pm
 Operator : garyk
 Sample : mc32460-4ms
 Misc : ms32429,msu957,,,,5,1
 ALS Vial : 27 Sample Multiplier: 1

Quant Time: Aug 05 08:30:18 2014
 Quant Method : D:\msdchem\1\methods\U140802W.m
 Quant Title : SW-846 Method 8260
 QLast Update : Mon Aug 04 09:37:40 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,3-dichlorobenzene	15.623	146	946583	51.23	ppb	96
94) p-isopropyltoluene	15.693	119	1769279	51.34	ppb	94
95) 1,4-dichlorobenzene	15.690	146	945084	50.49	ppb	99
96) 1,2-dichlorobenzene	16.058	146	1073804	53.50	ppb	96
97) n-butylbenzene	16.112	91	1502345	50.80	ppb	82
98) 1,2-dibromo-3-chloropr...	16.540	75	97737	47.52	ppb	82
99) 1,3,5-trichlorobenzene	17.350	180	906882	51.97	ug/L	96
100) 1,2,4-trichlorobenzene	17.889	180	875522	50.86	ppb	91
101) hexachlorobutadiene	18.178	225	363483	46.01	ppb	93
102) naphthalene	18.155	128	2176594	54.23	ppb	100
103) 2-Methylnaphthalene	19.520	142	1171306	51.62	ug/L	98
104) 1-Methylnaphthalene	19.766	142	907000	49.28	ug/L	99
105) 1,2,3-trichlorobenzene	18.361	180	789884	49.54	ppb	95

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

7.4.1

7

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140804\
 Data File : U21553.D
 Acq On : 4 Aug 2014 8:49 pm
 Operator : garyk
 Sample : mc32460-4msd
 Misc : ms32429,msu957,,,,5,1
 ALS Vial : 28 Sample Multiplier: 1

Quant Time: Aug 05 08:30:56 2014
 Quant Method : D:\msdchem\1\methods\U140802W.m
 Quant Title : SW-846 Method 8260
 QLast Update : Mon Aug 04 09:37:40 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.613	65	304374	50.00	ppb	0.01
4) pentafluorobenzene	8.975	168	771775	50.00	ppb	0.00
43) 1,4-difluorobenzene	9.842	114	1230493	50.00	ppb	0.00
66) chlorobenzene-d5	13.096	82	443866	50.00	ppb	# 0.00
80) 1,4-dichlorobenzene-d4	15.661	152	659398	50.00	ppb	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.614	113	489204	58.03	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	116.06%		
60) toluene-d8 (s)	11.639	98	1134524	54.96	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	109.92%		
82) bromofluorobenzene (s)	14.326	95	413149	54.17	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	108.34%		
Target Compounds						
						Qvalue
2) tertiary butyl alcohol	6.291	59	364818	779.05	ppb	92
3) Ethanol	5.572	45	493072	7071.29	ppb	95
5) dichlorodifluoromethane	4.344	85	544882	46.13	ppb	93
6) chloromethane	4.556	50	1045914	52.19	ppb	99
7) vinyl chloride	4.816	62	702322	50.60	ppb	99
8) bromomethane	5.288	96	398765	51.78	ppb	92
9) chloroethane	5.425	64	335878	64.69	ppb	99
10) ethyl ether	6.292	59	366123	55.56	ppb	89
11) acetonitrile	6.095	41	60161	65.96	ppb	# 48
12) trichlorofluoromethane	6.066	101	761365	45.80	ppb	98
13) freon-113	6.836	101	439842	53.37	ppb	88
14) acrolein	6.066	56	105429	225.64	ppb	92
15) 1,1-dichloroethene	6.634	96	414947	58.39	ppb	100
16) acetone	6.211	58	44301m	23.32	ppb	
17) Methyl Acetate	6.822	43	400421	55.69	ppb	# 89
18) methylene chloride	6.781	84	397654	50.90	ppb	85
19) methyl tert butyl ether	7.566	73	939571	51.46	ppb	88
20) acrylonitrile	6.711	53	183690	53.31	ppb	89
21) allyl chloride	6.875	41	682506	44.98	ppb	100
22) trans-1,2-dichloroethene	7.468	96	410643	49.93	ppb	92
23) iodomethane	6.690	142	825354	51.07	ppb	94
24) carbon disulfide	7.054	76	986879	47.02	ppb	98
25) propionitrile	8.083	54	47409	64.55	ppb	100
26) vinyl acetate	7.821	43	592395	41.86	ppb	98
27) chloroprene	8.083	53	865979	66.13	ppb	89
28) di-isopropyl ether	8.123	45	1598777	52.91	ppb	96
29) methacrylonitrile	8.242	41	238250	51.95	ppb	91
30) 2-butanone	8.131	72	29056	32.10	ppb	# 1
31) Ethyl Acetate	8.119	43	1249702	48.53	ug/L	90
32) Hexane	8.106	41	646346	52.01	ppb	# 81
33) 1,1-dichloroethane	7.719	63	2357911	149.83	ppb	98
34) tert-butyl ethyl ether	8.519	59	1357696	55.01	ppb	97
35) isobutyl alcohol	8.526	43	189418	188.04	ppb	# 73
36) 2,2-dichloropropane	8.577	77	501794	51.75	ppb	94

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140804\
 Data File : U21553.D
 Acq On : 4 Aug 2014 8:49 pm
 Operator : garyk
 Sample : mc32460-4msd
 Misc : ms32429,msu957,,,,5,1
 ALS Vial : 28 Sample Multiplier: 1

Quant Time: Aug 05 08:30:56 2014
 Quant Method : D:\msdchem\1\methods\U140802W.m
 Quant Title : SW-846 Method 8260
 QLast Update : Mon Aug 04 09:37:40 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) cis-1,2-dichloroethene	8.289	96	475327	52.10	ppb	99
38) bromochloromethane	8.455	128	264687	52.33	ppb #	80
39) chloroform	8.493	83	732234	51.95	ppb	99
41) Tetrahydrofuran	8.830	42	120301	48.55	ppb	92
42) 1,1,1-trichloroethane	9.242	97	1598517	121.18	ppb	99
44) Cyclohexane	9.525	56	825406	54.81	ppb	90
45) carbon tetrachloride	9.605	117	653963	50.96	ppb	100
46) 1,1-dichloropropene	9.417	75	452958	51.35	ppb	89
47) benzene	9.640	78	1309090	51.71	ppb	95
48) 1,2-dichloroethane	9.142	62	584495	51.65	ppb	99
49) tert-amyl methyl ether	9.764	73	919197	53.40	ppb	92
50) heptane	10.264	43	82854	8.20	ppb	57
51) trichloroethene	10.261	95	401260	51.93	ppb	74
52) 1,2-dichloropropane	10.228	63	373025	51.53	ppb	100
53) dibromomethane	10.203	93	227149	49.90	ppb	89
54) bromodichloromethane	10.315	83	505159	54.24	ppb	96
55) Methylcyclohexane	10.778	83	573160	53.57	ppb	89
56) 2-chloroethyl vinyl ether	10.768	63	8803	4.87	ppb #	1
57) methyl methacrylate	10.415	69	106556	51.19	ppb	79
58) 1,4-dioxane	10.451	88	8158	174.64	ppb	78
59) cis-1,3-dichloropropene	10.936	75	364404	46.57	ppb	89
61) 4-methyl-2-pentanone	11.041	43	343882	49.68	ppb	95
62) toluene	11.711	92	645155	50.24	ppb	98
63) trans-1,3-dichloropropene	11.357	75	267902	46.76	ppb	94
64) 1,1,2-trichloroethane	11.528	83	169400	48.48	ppb	92
65) ethyl methacrylate	11.738	69	212656	45.45	ppb #	70
67) tetrachloroethene	12.453	166	334027	51.34	ppb	96
68) 1,3-dichloropropane	11.764	76	286697	48.12	ppb	89
69) dibromochloromethane	12.054	129	351457	49.85	ppb	98
70) 1,2-dibromoethane	12.306	107	230370	46.55	ppb	93
71) 2-hexanone	11.912	43	156783	31.12	ppb	97
72) chlorobenzene	13.133	112	805655	50.51	ppb	86
73) 1,1,1,2-tetrachloroethane	13.053	131	468250	51.12	ppb	98
74) ethylbenzene	13.309	91	1262711	51.25	ppb	92
75) m,p-xylene	13.493	106	1059774	101.23	ppb	85
76) o-xylene	13.906	106	626901	51.76	ppb	89
77) styrene	13.833	104	743908	46.96	ppb	98
78) bromoform	13.660	173	226123	47.12	ppb	99
79) trans-1,4-dichloro-2-b...	14.061	53	65483	41.63	ppb #	58
81) isopropylbenzene	14.269	105	1733491	57.50	ppb	97
83) bromobenzene	14.558	156	431859	51.57	ppb #	74
84) 1,1,2,2-tetrachloroethane	13.911	83	335278	54.05	ppb	97
85) 1,2,3-trichloropropane	14.061	75	295452	49.36	ppb	98
86) n-propylbenzene	14.715	91	1722304	54.97	ppb	89
87) 2-chlorotoluene	14.832	91	1118621	53.89	ppb	78
88) 4-chlorotoluene	14.909	91	1028833	50.53	ppb	82
89) 1,3,5-trimethylbenzene	14.992	105	1589109	54.29	ppb	95
90) tert-butylbenzene	15.297	91	908227	49.22	ppb	87
91) 1,2,4-trimethylbenzene	15.401	105	1656504	56.11	ppb	98
92) sec-butylbenzene	15.520	105	2012215	55.09	ppb	90

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140804\
 Data File : U21553.D
 Acq On : 4 Aug 2014 8:49 pm
 Operator : garyk
 Sample : mc32460-4msd
 Misc : ms32429,msu957,,,,5,1
 ALS Vial : 28 Sample Multiplier: 1

Quant Time: Aug 05 08:30:56 2014
 Quant Method : D:\msdchem\1\methods\U140802W.m
 Quant Title : SW-846 Method 8260
 QLast Update : Mon Aug 04 09:37:40 2014
 Response via : Initial Calibration

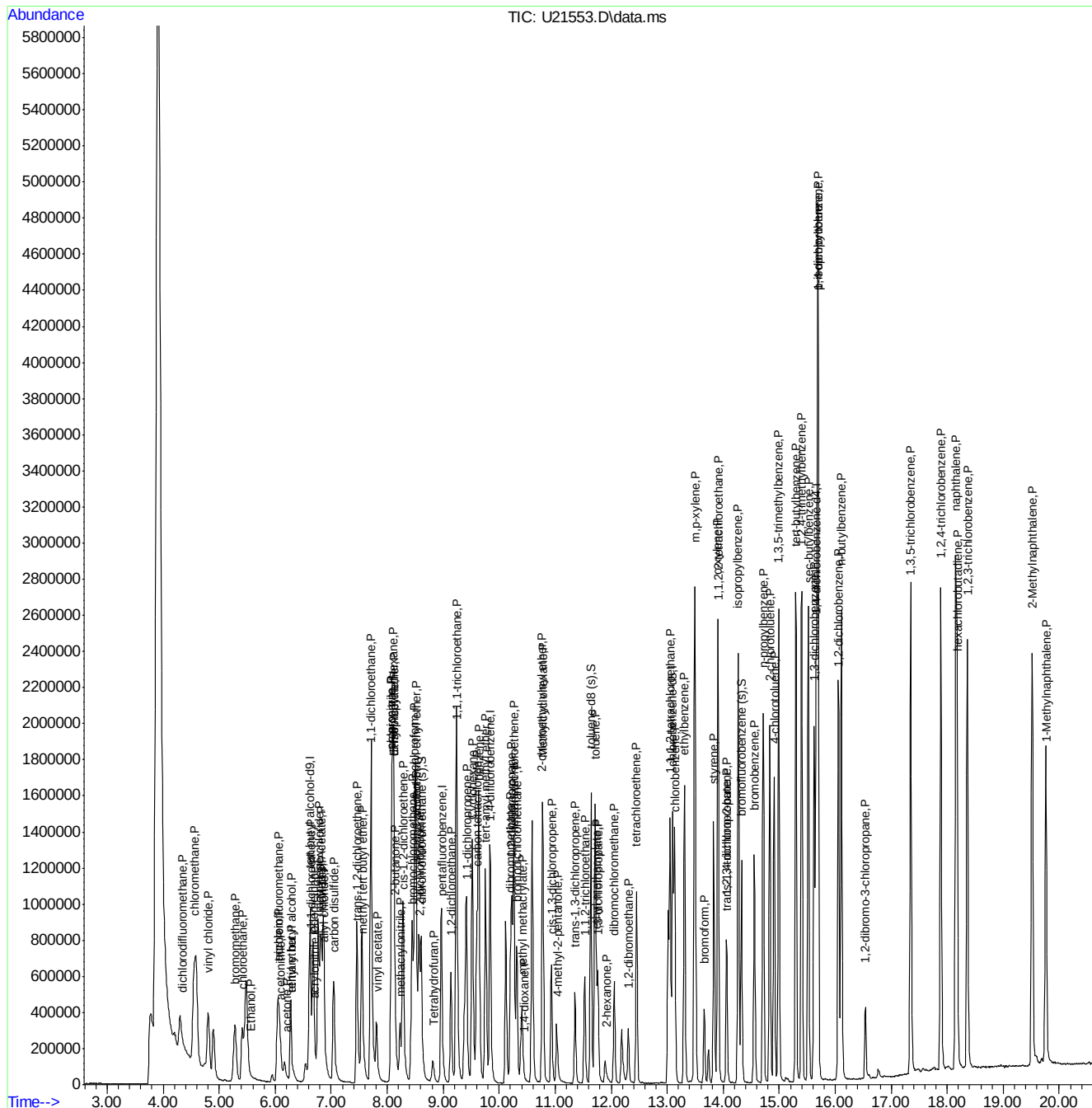
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,3-dichlorobenzene	15.623	146	956200	52.86	ppb	97
94) p-isopropyltoluene	15.693	119	1812972	53.74	ppb	94
95) 1,4-dichlorobenzene	15.690	146	944639	51.56	ppb	99
96) 1,2-dichlorobenzene	16.058	146	1074105	54.66	ppb	94
97) n-butylbenzene	16.112	91	1523136	52.61	ppb	85
98) 1,2-dibromo-3-chloropr...	16.541	75	103731	51.52	ppb	72
99) 1,3,5-trichlorobenzene	17.350	180	963604	56.41	ug/L	95
100) 1,2,4-trichlorobenzene	17.889	180	954469	56.64	ppb	95
101) hexachlorobutadiene	18.178	225	397029	51.34	ppb	99
102) naphthalene	18.155	128	2378431	60.53	ppb	100
103) 2-Methylnaphthalene	19.519	142	1455697	65.54	ug/L	97
104) 1-Methylnaphthalene	19.767	142	1137855	63.16	ug/L	98
105) 1,2,3-trichlorobenzene	18.362	180	895769	57.39	ppb	97

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

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140804\
Data File : U21553.D
Acq On : 4 Aug 2014 8:49 pm
Operator : garyk
Sample : mc32460-4msd
Misc : ms32429,msu957,,,,,5,1
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Aug 05 08:30:56 2014
Quant Method : D:\msdchem\1\methods\U140802W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Aug 04 09:37:40 2014
Response via : Initial Calibration



U140802W.m Tue Aug 05 08:32:11 2014

Page: 4

7.4.2



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140806\
 Data File : v33585.D
 Acq On : 6 Aug 2014 3:12 pm
 Operator : amym
 Sample : mc32460-2ms
 Misc : MS32442,MSV1230,,,,,5,5
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 06 15:44:39 2014
 Quant Method : C:\msdchem\1\METHODS\v140801w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Aug 01 17:44:41 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.521	65	43250	500.00	ug/L	0.03
4) pentafluorobenzene	6.573	168	269763	50.00	ug/L	0.04
43) 1,4-difluorobenzene	7.753	114	359279	50.00	ug/L	0.03
66) chlorobenzene-d5	11.089	82	161134	50.00	ug/L	0.02
80) 1,4-dichlorobenzene-d4	13.299	152	206656	50.00	ug/L	0.02
System Monitoring Compounds						
40) dibromofluoromethane (s)	6.453	113	160131	55.89	ug/L	0.04
Spiked Amount 50.000	Range 70 - 130		Recovery =	111.78%		
60) toluene-d8 (s)	9.563	98	379770	53.37	ug/L	0.02
Spiked Amount 50.000	Range 70 - 130		Recovery =	106.74%		
82) bromofluorobenzene (s)	12.236	95	164693	46.08	ug/L	0.02
Spiked Amount 50.000	Range 70 - 130		Recovery =	92.16%		
Target Compounds						
					Qvalue	
2) tertiary butyl alcohol	3.634	59	31966	438.88	ug/L	85
3) Ethanol	2.501	45	85259	15785.10	ug/L #	100
5) dichlorodifluoromethane	1.503	85	584861	50.53	ug/L	100
6) chloromethane	1.615	50	427660	64.79	ug/L	99
7) vinyl chloride	1.729	62	378456	56.53	ug/L	99
8) bromomethane	2.017	96	240822	58.58	ug/L	100
9) chloroethane	2.112	64	170712	75.41	ug/L	100
10) ethyl ether	2.610	59	158594	71.57	ug/L	98
11) acetonitrile	3.302	41	449472	81.92	ug/L #	20
12) trichlorofluoromethane	2.351	101	652450	68.02	ug/L	99
13) freon-113	2.922	101	316294	63.07	ug/L	96
14) acrolein	2.760	56	62570	209.24	ug/L	99
15) 1,1-dichloroethene	2.873	96	223103	69.86	ug/L #	75
16) acetone	2.912	58	11858	25.08	ug/L	98
17) Methyl Acetate	3.286	43	122490	81.96	ug/L	98
18) methylene chloride	3.472	84	210643	59.27	ug/L	85
19) methyl tert butyl ether	3.849	73	340735	54.77	ug/L	97
20) acrylonitrile	3.791	53	59978	75.33	ug/L	99
21) allyl chloride	3.301	41	449255	81.89	ug/L	94
22) trans-1,2-dichloroethene	3.845	96	199904	64.22	ug/L #	82
23) iodomethane	3.039	142	518612	59.69	ug/L	87
24) carbon disulfide	3.124	76	774586	83.58	ug/L	99
25) propionitrile	5.657	54	14448	69.02	ug/L	100
26) vinyl acetate	4.599	43	543721	70.69	ug/L	97
27) chloroprene	4.634	53	445824	105.95	ug/L	87
28) di-isopropyl ether	4.620	45	785628	77.74	ug/L	99
29) methacrylonitrile	5.930	41	78861	76.73	ug/L	95
30) 2-butanone	5.545	72	8423	41.66	ug/L #	67
31) Hexane	4.265	41	238923	90.31	ug/L	93
32) 1,1-dichloroethane	4.523	63	407247	70.01	ug/L	98
33) tert-butyl ethyl ether	5.287	59	410116	61.75	ug/L	96
34) isobutyl alcohol	4.599	43	543721	351.20	ug/L	86
35) 2,2-dichloropropane	5.562	77	194021	56.19	ug/L	96
36) cis-1,2-dichloroethene	5.544	96	168494	59.96	ug/L #	83

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140806\
 Data File : v33585.D
 Acq On : 6 Aug 2014 3:12 pm
 Operator : amym
 Sample : mc32460-2ms
 Misc : MS32442,MSV1230,,,,,5,5
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 06 15:44:39 2014
 Quant Method : C:\msdchem\1\METHODS\v140801w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Aug 01 17:44:41 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) ethyl acetate	4.597	43	543727m	70.72	ug/L	
38) bromochloromethane	5.964	128	80214	59.16	ug/L	# 86
39) chloroform	6.182	83	337512	66.38	ug/L	97
41) Tetrahydrofuran	5.973	42	27203	72.42	ug/L	99
42) 1,1,1-trichloroethane	6.428	97	324212	72.88	ug/L	94
44) Cyclohexane	6.537	56	367098	74.02	ug/L	91
45) carbon tetrachloride	6.684	117	333121	67.97	ug/L	99
46) 1,1-dichloropropene	6.697	75	211372	66.49	ug/L	92
47) benzene	7.016	78	499481	58.92	ug/L	99
48) 1,2-dichloroethane	7.139	62	257897	70.87	ug/L	96
49) tert-amyl methyl ether	7.303	73	232496	59.10	ug/L	95
50) heptane	7.572	43	211886	82.95	ug/L	95
51) trichloroethene	8.046	95	170808	65.78	ug/L	94
52) 1,2-dichloropropane	8.393	63	154703	65.11	ug/L	100
53) dibromomethane	8.497	93	82554	66.01	ug/L	99
54) bromodichloromethane	8.748	83	204224	78.01	ug/L	97
55) Methylcyclohexane	8.349	83	209485	66.05	ug/L	86
57) methyl methacrylate	8.527	69	43066	52.92	ug/L	91
59) cis-1,3-dichloropropene	9.275	75	150553	60.57	ug/L	96
61) 4-methyl-2-pentanone	9.459	43	91864	69.12	ug/L	98
62) toluene	9.638	92	295106	62.16	ug/L	99
63) trans-1,3-dichloropropene	9.925	75	115396	61.26	ug/L	94
64) 1,1,2-trichloroethane	10.131	83	70648	62.58	ug/L	97
65) ethyl methacrylate	10.006	69	83445	55.00	ug/L	95
67) tetrachloroethene	10.191	166	145776	51.99	ug/L	97
68) 1,3-dichloropropane	10.292	76	137144	54.53	ug/L	100
69) dibromochloromethane	10.513	129	119825	57.26	ug/L	98
70) 1,2-dibromoethane	10.622	107	87310	55.62	ug/L	97
71) 2-hexanone	10.367	43	56276	40.02	ug/L	96
72) chlorobenzene	11.118	112	346102	55.67	ug/L	97
73) 1,1,1,2-tetrachloroethane	11.218	131	152574	50.46	ug/L	98
74) ethylbenzene	11.223	91	650312	57.55	ug/L	97
75) m,p-xylene	11.353	106	493469	113.69	ug/L	88
76) o-xylene	11.720	106	250370	57.56	ug/L	90
77) styrene	11.741	104	394913	61.86	ug/L	91
78) bromoform	11.915	173	61545	55.21	ug/L	98
79) trans-1,4-dichloro-2-b...	12.131	53	30066	50.23	ug/L	92
81) isopropylbenzene	12.072	105	717565	57.23	ug/L	99
83) bromobenzene	12.362	156	163027	49.45	ug/L	98
84) 1,1,2,2-tetrachloroethane	12.367	83	104143	51.88	ug/L	99
85) 1,2,3-trichloropropane	12.406	75	123752	56.52	ug/L	98
86) n-propylbenzene	12.460	91	839045	59.12	ug/L	95
87) 2-chlorotoluene	12.539	91	517979	56.55	ug/L	96
88) 4-chlorotoluene	12.650	91	616824	59.05	ug/L	91
89) 1,3,5-trimethylbenzene	12.629	105	655635	56.92	ug/L	94
90) tert-butylbenzene	12.915	91	370792	63.18	ug/L	93
91) 1,2,4-trimethylbenzene	12.969	105	708958	61.16	ug/L	97
92) sec-butylbenzene	13.118	105	793979	62.29	ug/L	99
93) 1,3-dichlorobenzene	13.226	146	358918	54.57	ug/L	99
94) p-isopropyltoluene	13.259	119	737474	63.15	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140806\
Data File : v33585.D
Acq On : 6 Aug 2014 3:12 pm
Operator : amym
Sample : mc32460-2ms
Misc : MS32442,MSV1230,,,,,5,5
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 06 15:44:39 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 17:44:41 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) 1,4-dichlorobenzene	13.321	146	382538	57.56	ug/L	98
96) 1,2-dichlorobenzene	13.638	146	354681	56.82	ug/L	98
97) n-butylbenzene	13.623	91	649445	67.04	ug/L	100
98) 1,2-dibromo-3-chloropr...	14.339	75	15217	51.22	ug/L	95
99) 1,3,5-trichlorobenzene	14.504	180	242089	51.93	ug/L	100
100) 1,2,4-trichlorobenzene	15.059	180	179385	48.62	ug/L	97
101) hexachlorobutadiene	15.181	225	74445	50.22	ug/L	97
102) naphthalene	15.293	128	273965	52.61	ug/L	100
103) 1,2,3-trichlorobenzene	15.482	180	142125	47.55	ug/L	99
104) 2-Methylnaphthalene	16.292	142	83582	44.72	ug/L	99
105) 1-Methylnaphthalene	16.462	142	61895	42.38	ug/L	97

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

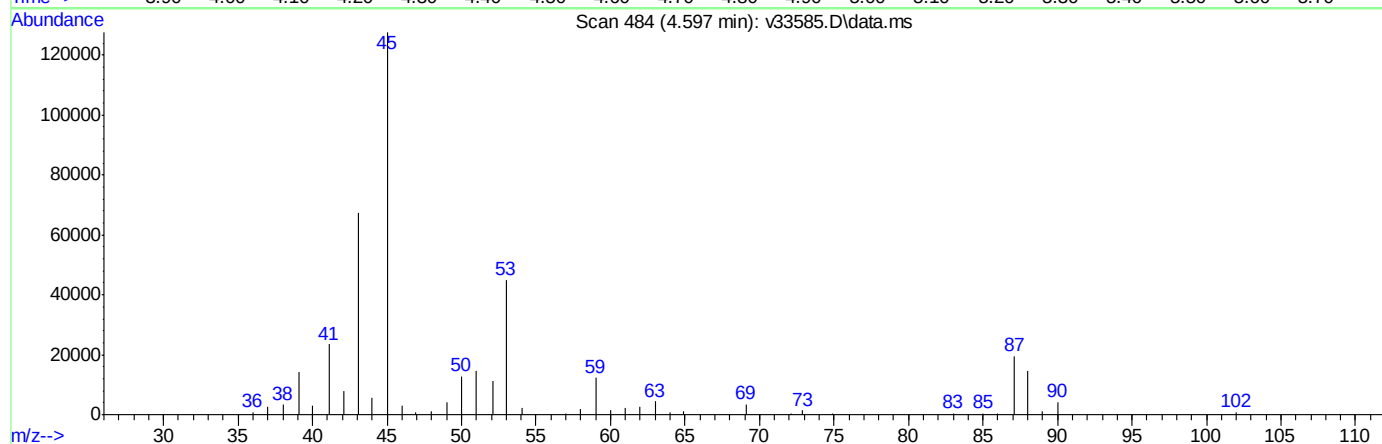
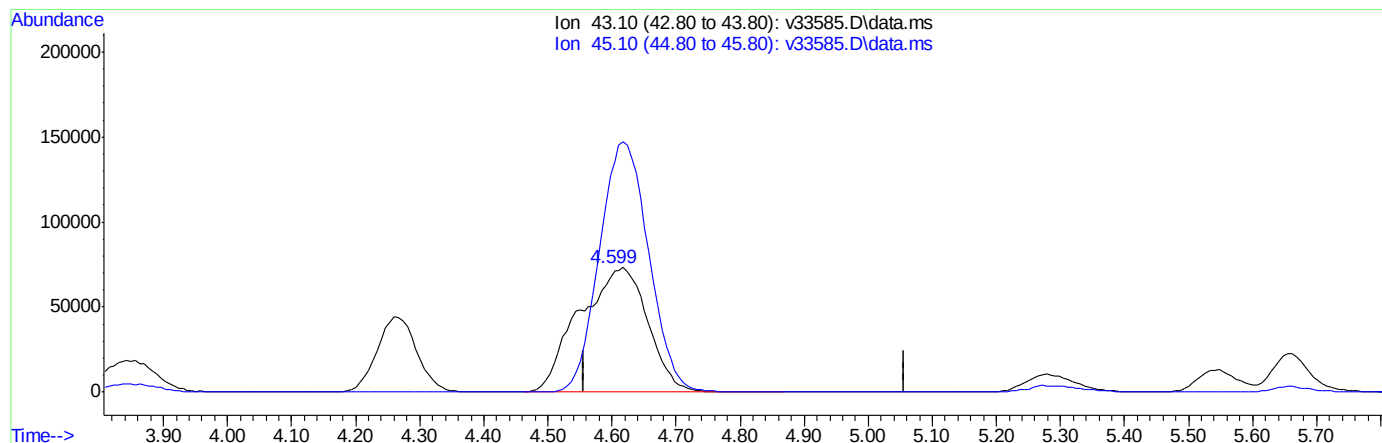
7.4.3

7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140806\
Data File : v33585.D
Acq On : 6 Aug 2014 3:12 pm
Operator : amym
Sample : mc32460-2ms
Misc : MS32442,MSV1230,,,,5,5
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 06 15:41:14 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 17:44:41 2014
Response via : Initial Calibration



(37) ethyl acetate (p)

4.597min (+0.040) 70.72ug/L m

response 543727

Ion	Exp%	Act%
43.10	100	100
45.10	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140806\
 Data File : v33586.D
 Acq On : 6 Aug 2014 3:38 pm
 Operator : amym
 Sample : mc32460-2msd
 Misc : MS32442,MSV1230,,,,,5,5
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 06 15:57:21 2014
 Quant Method : C:\msdchem\1\METHODS\v140801w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Aug 01 17:44:41 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.524	65	52559	500.00	ug/L	0.03
4) pentafluorobenzene	6.574	168	291231	50.00	ug/L	0.04
43) 1,4-difluorobenzene	7.754	114	382465	50.00	ug/L	0.03
66) chlorobenzene-d5	11.089	82	171561	50.00	ug/L	0.02
80) 1,4-dichlorobenzene-d4	13.299	152	227835	50.00	ug/L	0.02
System Monitoring Compounds						
40) dibromofluoromethane (s)	6.453	113	169024	54.65	ug/L	0.04
Spiked Amount 50.000	Range 70 - 130		Recovery =	109.30%		
60) toluene-d8 (s)	9.563	98	403940	53.32	ug/L	0.02
Spiked Amount 50.000	Range 70 - 130		Recovery =	106.64%		
82) bromofluorobenzene (s)	12.237	95	179270	45.50	ug/L	0.02
Spiked Amount 50.000	Range 70 - 130		Recovery =	91.00%		
Target Compounds						
					Qvalue	
2) tertiary butyl alcohol	3.633	59	37104	419.19	ug/L	90
3) Ethanol	2.501	45	96171	14614.31	ug/L #	100
5) dichlorodifluoromethane	1.498	85	538778m	41.90	ug/L	
6) chloromethane	1.617	50	431964	59.63	ug/L	96
7) vinyl chloride	1.730	62	392868	53.91	ug/L	99
8) bromomethane	2.018	96	249385	55.68	ug/L	99
9) chloroethane	2.113	64	175494	70.78	ug/L	96
10) ethyl ether	2.611	59	157661	64.37	ug/L	93
11) acetonitrile	3.301	41	469513	79.27	ug/L #	21
12) trichlorofluoromethane	2.351	101	648800	61.40	ug/L	100
13) freon-113	2.923	101	322774	59.16	ug/L	95
14) acrolein	2.760	56	69461	215.73	ug/L	100
15) 1,1-dichloroethene	2.872	96	230641	66.89	ug/L	84
16) acetone	2.911	58	13345	26.18	ug/L	94
17) Methyl Acetate	3.286	43	137029	84.93	ug/L #	95
18) methylene chloride	3.471	84	221599	57.75	ug/L	88
19) methyl tert butyl ether	3.850	73	383697	57.13	ug/L	99
20) acrylonitrile	3.790	53	66133	76.94	ug/L	92
21) allyl chloride	3.301	41	469513	79.27	ug/L	93
22) trans-1,2-dichloroethene	3.844	96	207682	61.80	ug/L	86
23) iodomethane	3.039	142	541154	57.70	ug/L	89
24) carbon disulfide	3.124	76	800101	79.97	ug/L	98
25) propionitrile	5.657	54	16425	72.31	ug/L	100
26) vinyl acetate	4.598	43	578159	69.63	ug/L	97
27) chloroprene	4.635	53	456098	100.41	ug/L	88
28) di-isopropyl ether	4.621	45	823199	75.45	ug/L	98
29) methacrylonitrile	5.930	41	86381	77.86	ug/L	93
30) 2-butanone	5.547	72	9001	41.26	ug/L	97
31) Hexane	4.265	41	241334	84.50	ug/L	91
32) 1,1-dichloroethane	4.523	63	419899	66.86	ug/L	98
33) tert-butyl ethyl ether	5.288	59	453270	63.22	ug/L	96
34) isobutyl alcohol	4.598	43	578159	345.91	ug/L	87
35) 2,2-dichloropropane	5.563	77	206110	55.29	ug/L	97
36) cis-1,2-dichloroethene	5.545	96	177153	58.40	ug/L #	83

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140806\
Data File : v33586.D
Acq On : 6 Aug 2014 3:38 pm
Operator : amym
Sample : mc32460-2msd
Misc : MS32442,MSV1230,,,,,5,5
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 06 15:57:21 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 17:44:41 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) ethyl acetate	4.597	43	578146m	69.65	ug/L	
38) bromochloromethane	5.965	128	86322	58.97	ug/L	87
39) chloroform	6.183	83	347874	63.37	ug/L	97
41) Tetrahydrofuran	5.975	42	30167	74.30	ug/L	100
42) 1,1,1-trichloroethane	6.429	97	333464	69.43	ug/L	98
44) Cyclohexane	6.538	56	377059	71.42	ug/L	91
45) carbon tetrachloride	6.684	117	344131	66.00	ug/L	97
46) 1,1-dichloropropene	6.697	75	212533	62.80	ug/L	94
47) benzene	7.016	78	519635	57.58	ug/L	98
48) 1,2-dichloroethane	7.139	62	271638	70.12	ug/L	97
49) tert-amyl methyl ether	7.303	73	254556	60.78	ug/L	96
50) heptane	7.573	43	212983	78.33	ug/L	97
51) trichloroethene	8.046	95	174271	63.04	ug/L	93
52) 1,2-dichloropropane	8.394	63	162868	64.40	ug/L	99
53) dibromomethane	8.497	93	86920	65.29	ug/L	99
54) bromodichloromethane	8.748	83	213173	76.49	ug/L	99
55) Methylcyclohexane	8.349	83	213402	63.20	ug/L	88
57) methyl methacrylate	8.527	69	48618	55.88	ug/L	94
59) cis-1,3-dichloropropene	9.275	75	162077	61.19	ug/L	92
61) 4-methyl-2-pentanone	9.460	43	102490	72.44	ug/L	98
62) toluene	9.639	92	306674	60.69	ug/L	100
63) trans-1,3-dichloropropene	9.926	75	125660	62.55	ug/L	95
64) 1,1,2-trichloroethane	10.131	83	75360	62.70	ug/L	98
65) ethyl methacrylate	10.007	69	92924	57.30	ug/L	91
67) tetrachloroethene	10.191	166	149874	50.21	ug/L	98
68) 1,3-dichloropropane	10.293	76	145157	54.20	ug/L	99
69) dibromochloromethane	10.513	129	128677	57.73	ug/L	100
70) 1,2-dibromoethane	10.622	107	92595	55.41	ug/L	97
71) 2-hexanone	10.367	43	62666	41.85	ug/L	100
72) chlorobenzene	11.118	112	361020	54.54	ug/L	97
73) 1,1,1,2-tetrachloroethane	11.218	131	159582	49.59	ug/L	96
74) ethylbenzene	11.223	91	671634	55.82	ug/L	99
75) m,p-xylene	11.353	106	510087	110.38	ug/L	90
76) o-xylene	11.720	106	257292	55.55	ug/L	89
77) styrene	11.741	104	413257	60.80	ug/L	91
78) bromoform	11.915	173	66362	55.83	ug/L	97
79) trans-1,4-dichloro-2-b...	12.131	53	33559	52.49	ug/L	95
81) isopropylbenzene	12.072	105	741554	53.65	ug/L	100
83) bromobenzene	12.362	156	173649	47.77	ug/L	99
84) 1,1,2,2-tetrachloroethane	12.367	83	113313	51.20	ug/L	99
85) 1,2,3-trichloropropane	12.406	75	135134	55.98	ug/L	98
86) n-propylbenzene	12.460	91	878789	56.17	ug/L	97
87) 2-chlorotoluene	12.539	91	539954	53.47	ug/L	96
88) 4-chlorotoluene	12.650	91	646410	56.13	ug/L	92
89) 1,3,5-trimethylbenzene	12.629	105	677594	53.36	ug/L	95
90) tert-butylbenzene	12.915	91	378884	58.56	ug/L	93
91) 1,2,4-trimethylbenzene	12.969	105	735433	57.55	ug/L	98
92) sec-butylbenzene	13.118	105	823441	58.60	ug/L	100
93) 1,3-dichlorobenzene	13.226	146	382438	52.74	ug/L	100
94) p-isopropyltoluene	13.258	119	771077	59.89	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140806\
Data File : v33586.D
Acq On : 6 Aug 2014 3:38 pm
Operator : amym
Sample : mc32460-2msd
Misc : MS32442,MSV1230,,,,,5,5
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 06 15:57:21 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 17:44:41 2014
Response via : Initial Calibration

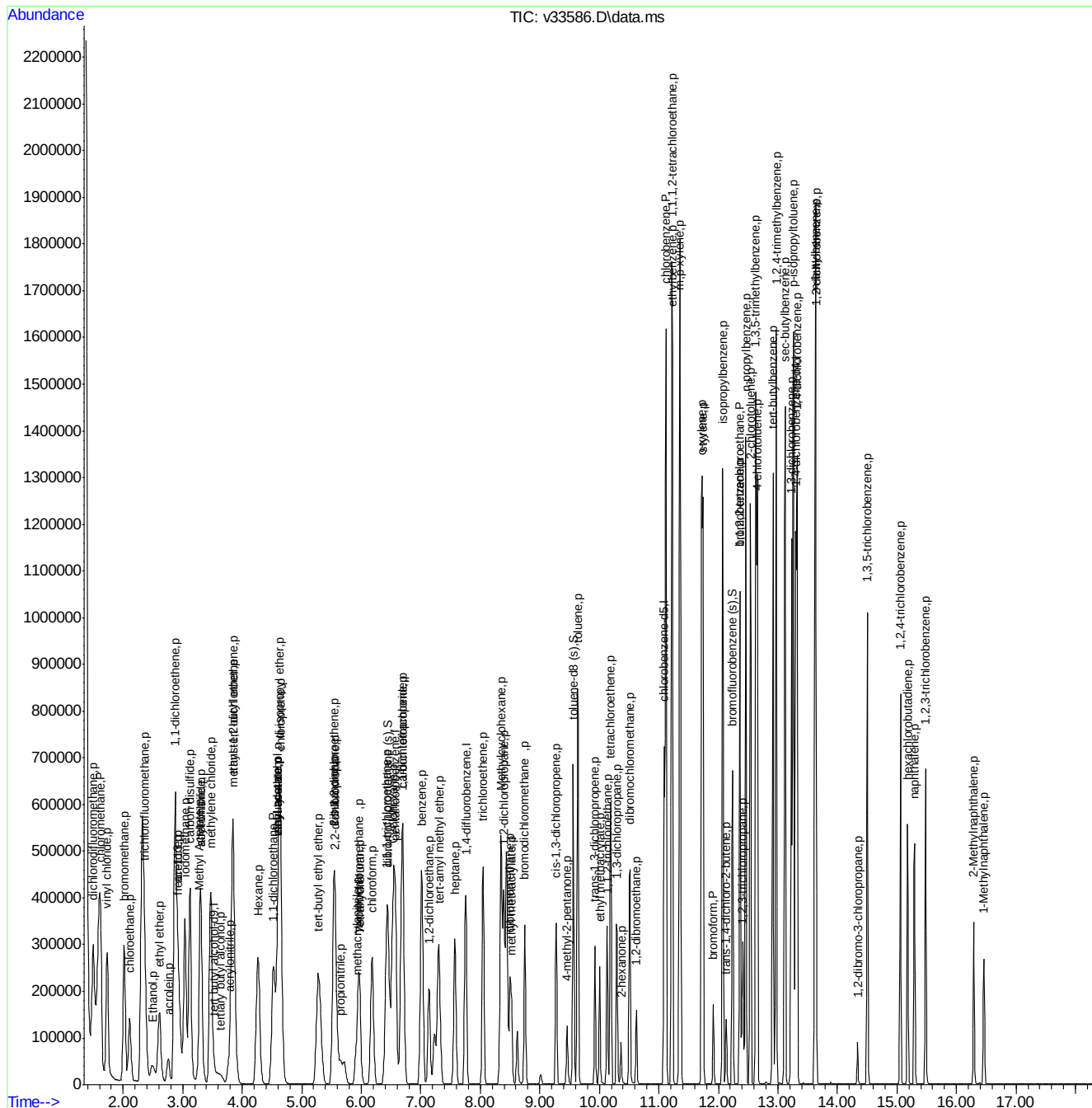
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) 1,4-dichlorobenzene	13.321	146	404013	55.14	ug/L	99
96) 1,2-dichlorobenzene	13.638	146	384962	55.94	ug/L	98
97) n-butylbenzene	13.623	91	676063	63.30	ug/L	99
98) 1,2-dibromo-3-chloropr...	14.339	75	18097	54.84	ug/L	90
99) 1,3,5-trichlorobenzene	14.504	180	262256	51.02	ug/L	98
100) 1,2,4-trichlorobenzene	15.059	180	201057	49.43	ug/L	97
101) hexachlorobutadiene	15.180	225	77805	47.61	ug/L	99
102) naphthalene	15.293	128	330375	57.55	ug/L	100
103) 1,2,3-trichlorobenzene	15.482	180	168292	51.07	ug/L	99
104) 2-Methylnaphthalene	16.292	142	140878	63.44	ug/L	99
105) 1-Methylnaphthalene	16.462	142	113772	65.83	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140806\
Data File : v33586.D
Acq On : 6 Aug 2014 3:38 pm
Operator : amym
Sample : mc32460-2msd
Misc : MS32442,MSV1230,,,,,5,5
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 06 15:57:21 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 17:44:41 2014
Response via : Initial Calibration



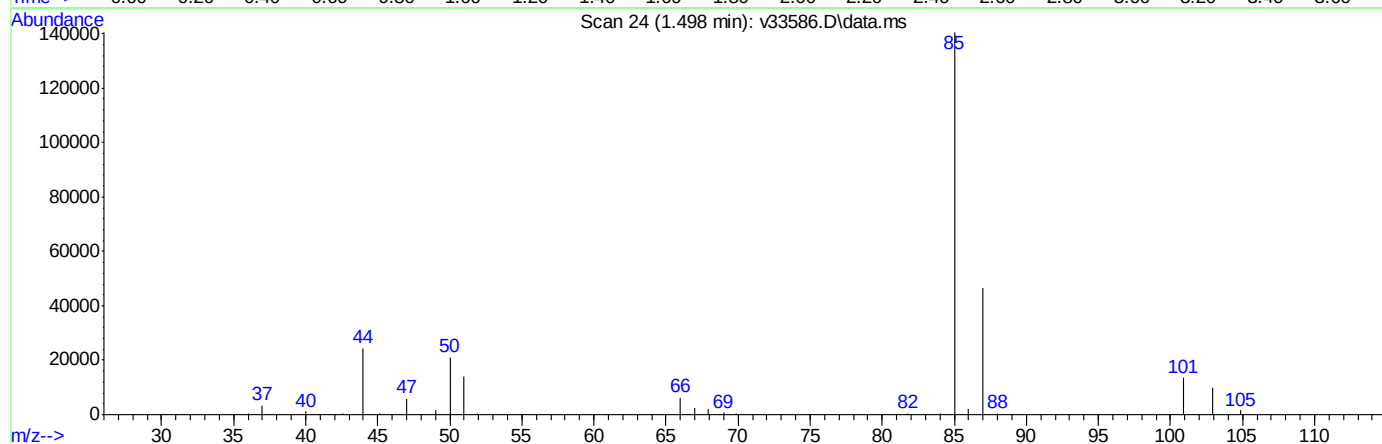
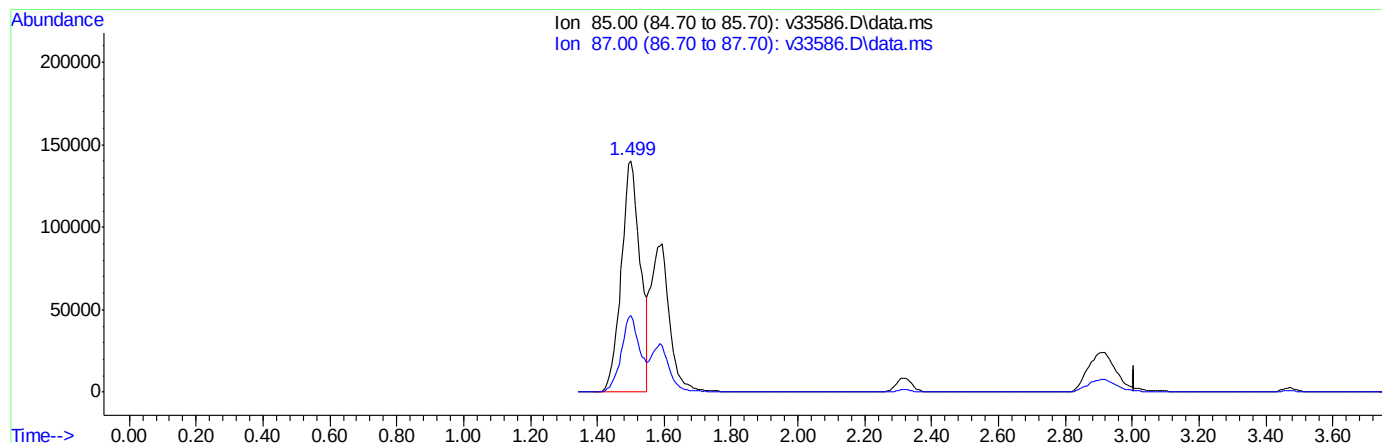
v140801w.m Wed Aug 06 15:57:53 2014

Page: 4

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140806\
Data File : v33586.D
Acq On : 6 Aug 2014 3:38 pm
Operator : amym
Sample : mc32460-2msd
Misc : MS32442,MSV1230,,,,5,5
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 06 15:56:58 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 17:44:41 2014
Response via : Initial Calibration



(5) dichlorodifluoromethane (p)

1.498min (+0.013) 41.90ug/L m

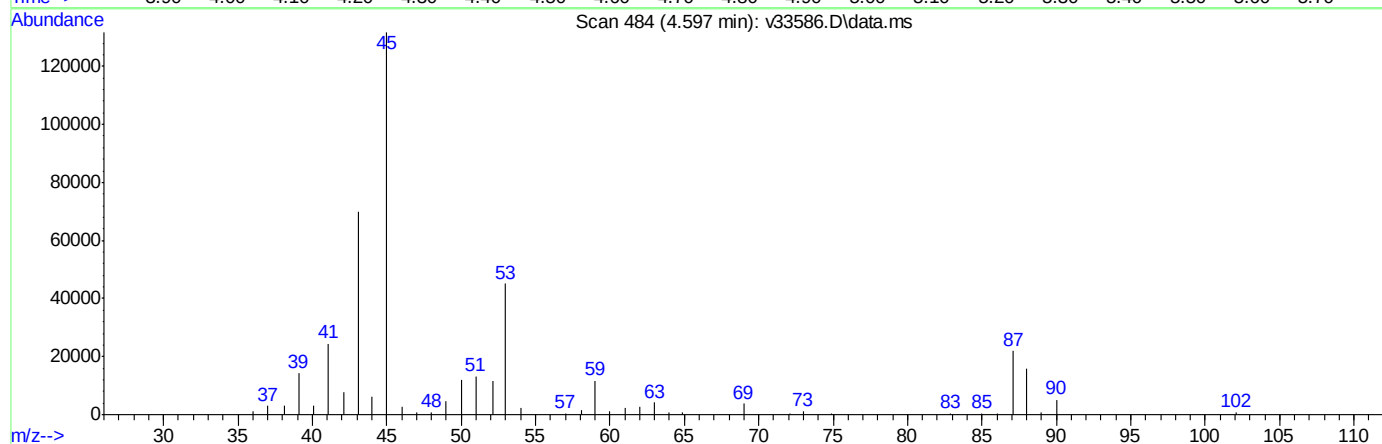
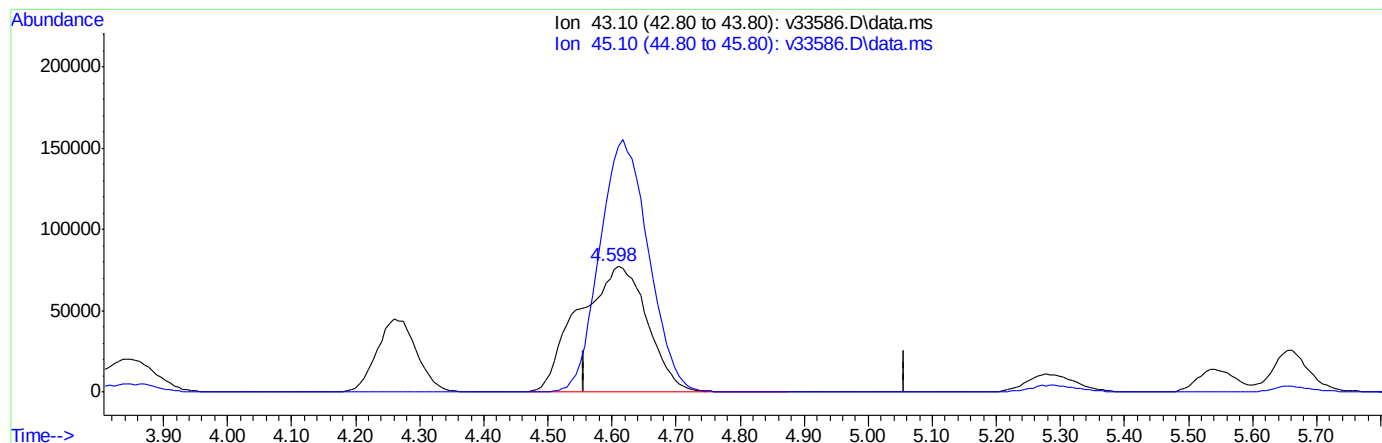
response 538778

Ion	Exp%	Act%
85.00	100	100
87.00	33.00	33.27
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140806\
Data File : v33586.D
Acq On : 6 Aug 2014 3:38 pm
Operator : amym
Sample : mc32460-2msd
Misc : MS32442,MSV1230,,,,5,5
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 06 15:56:58 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 17:44:41 2014
Response via : Initial Calibration



(37) ethyl acetate (p)

4.597min (+0.040) 69.65ug/L m

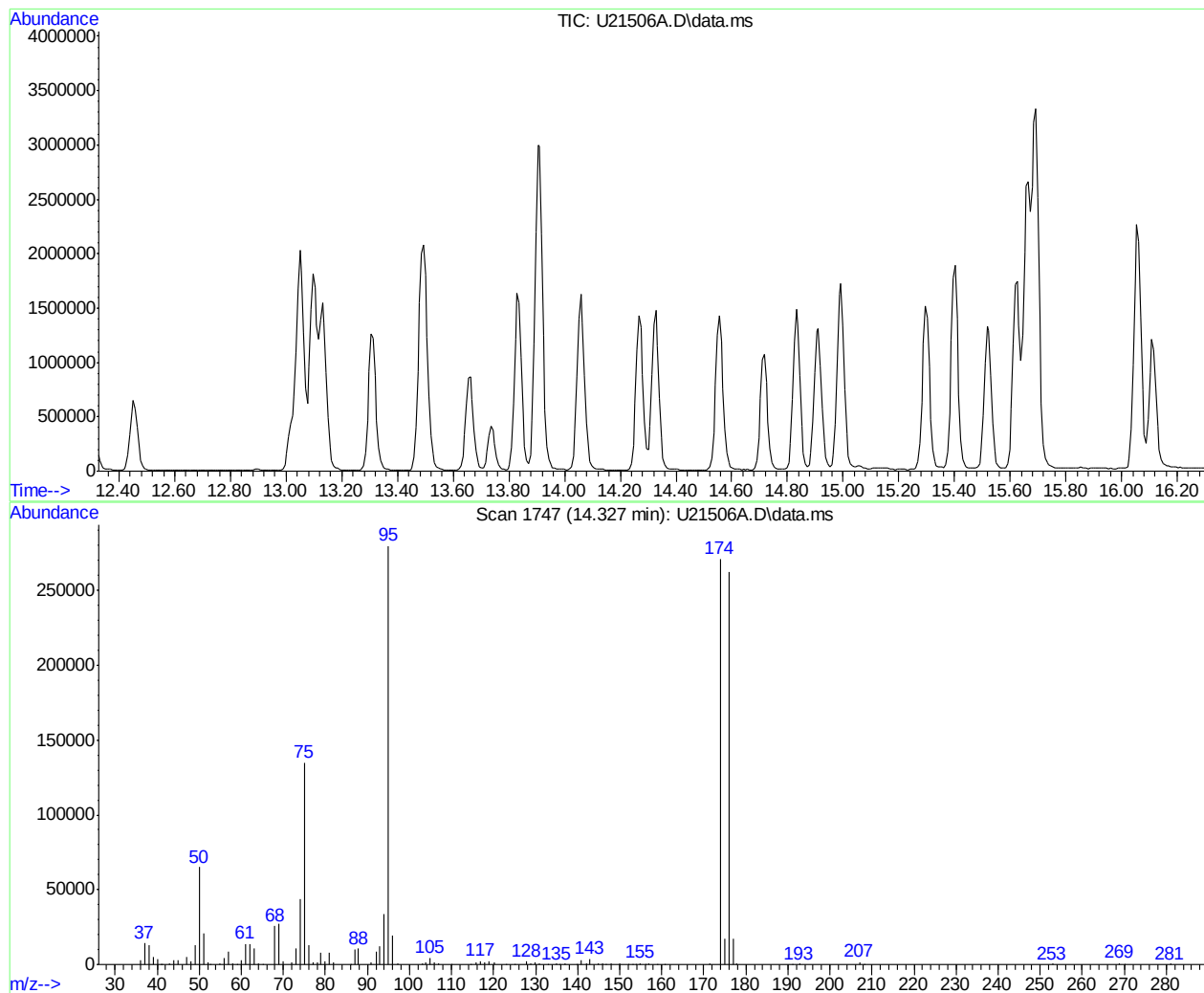
response 578146

Ion	Exp%	Act%
43.10	100	100
45.10	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

SW-846 Method 8260

Data File : D:\msdchem\1\data\U140802\U21506A.D Vial: 6
Acq On : 3 Aug 2014 12:25 pm Operator: amym
Sample : bfb Inst : MSU
Misc : ms32403,msu957,,,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : D:\msdchem\1\methods\U140802W.m (RTE Integrator)
Title : SW-846 Method 8260



Spectrum Information: Scan 1747

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.2	64960	PASS
75	95	30	60	48.2	134848	PASS
95	95	100	100	100.0	279936	PASS
96	95	5	9	6.8	19096	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	150	96.8	271104	PASS
175	174	5	9	6.5	17520	PASS
176	174	95	101	96.9	262720	PASS
177	176	5	9	6.6	17344	PASS

Scan 1747 (14.327 min): U21506A.D\data.ms
blk

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	3038	47.90	1957	60.00	3129	74.00	43408
37.00	14041	49.00	13023	61.00	13717	75.00	134848
38.10	12876	50.00	64960	62.00	13619	76.00	12804
39.10	4817	51.00	20584	63.00	11075	77.00	1724
40.00	3424	52.00	1140	64.00	834	78.00	1226
40.90	207	52.60	223	65.00	273	78.90	8264
41.10	202	55.00	598	68.00	25760	80.00	2353
42.90	467	56.00	4679	69.00	27080	80.90	7835
43.90	3023	57.00	8861	70.00	2083	81.90	1754
45.00	2605	57.90	552	72.00	1463	86.10	318
47.00	5351	59.00	280	73.00	11000	87.00	10036

Scan 1747 (14.327 min): U21506A.D\data.ms
blk

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
87.90	10604	106.00	1346	127.90	1916	142.90	3824
90.90	1205	106.90	468	128.90	750	144.90	519
92.00	8302	110.00	274	129.90	1239	145.80	758
93.00	12382	114.60	275	130.90	537	146.80	204
94.00	33616	115.80	1455	132.90	239	147.90	1009
95.00	279936	116.90	2162	135.00	684	149.90	497
96.00	19096	117.90	1230	135.80	320	152.00	226
97.10	743	118.90	2087	136.90	498	153.00	224
103.00	384	120.10	1305	139.80	358	153.90	308
103.90	1600	122.90	336	140.90	3251	154.90	980
105.00	4576	125.10	219	142.00	402	156.00	240

Scan 1747 (14.327 min): U21506A.D\data.ms
blk

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
156.80	560	207.10	1547				
158.80	300	208.10	311				
160.80	329	253.00	409				
171.50	431	268.90	969				
173.90	271104	270.10	288				
174.90	17520	281.00	581				
175.90	262720						
176.90	17344						
177.90	387						
191.00	259						
192.80	397						

SW-846 Method 8260

Data File : D:\msdchem\1\data\U140804\U21528.D

Vial: 3

Acq On : 4 Aug 2014 9:24 am

Operator: garyk

Sample : bfb

Inst : MSU

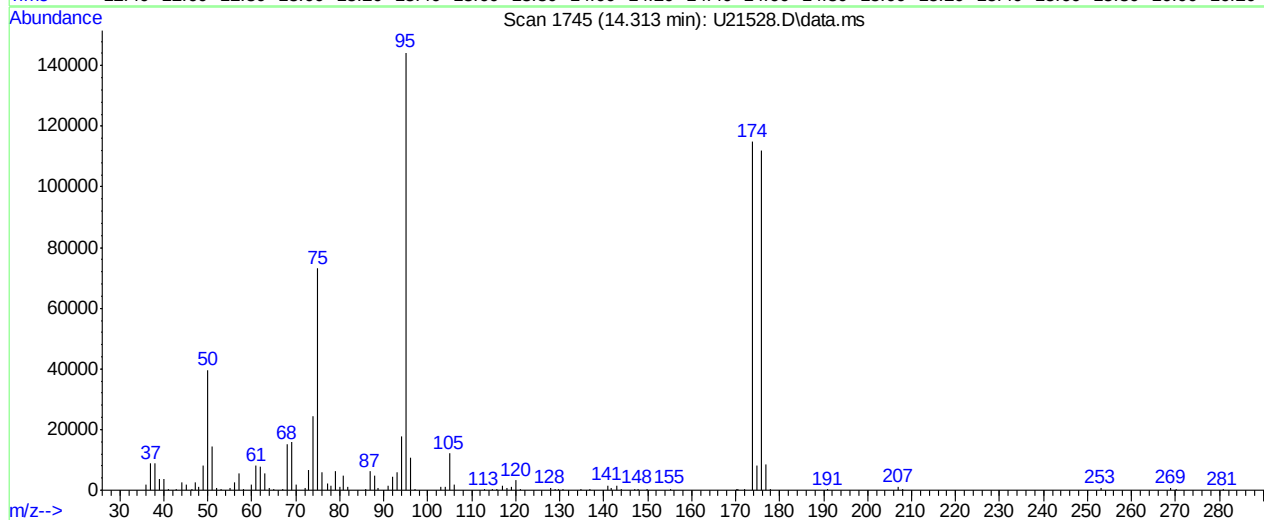
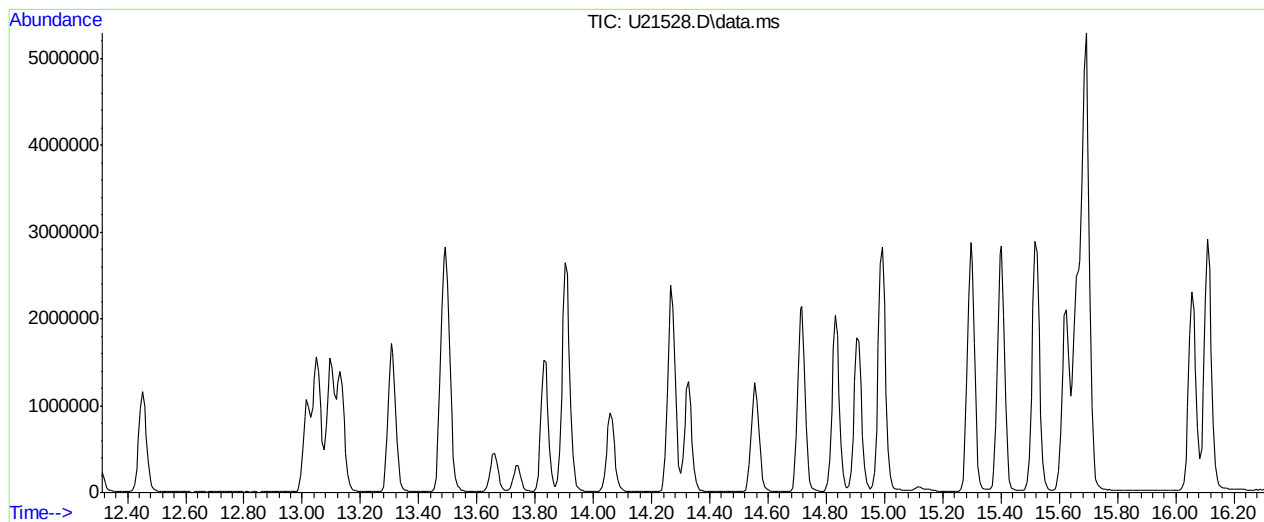
Misc : ms32403,msu957,,,,5,1

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : D:\msdchem\1\methods\U140802W.m (RTE Integrator)

Title : SW-846 Method 8260



Spectrum Information: Scan 1745

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	27.5	39616	PASS
75	95	30	60	50.7	73104	PASS
95	95	100	100	100.0	144320	PASS
96	95	5	9	7.6	10908	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	150	79.6	114864	PASS
175	174	5	9	7.2	8264	PASS
176	174	95	101	97.6	112072	PASS
177	176	5	9	7.5	8364	PASS

U21528.D U140802W.m Mon Aug 04 12:10:50 2014

Scan 1745 (14.313 min): U21528.D\data.ms
bfb

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	1903	48.00	1163	61.00	8006	74.00	24328
37.00	8763	49.00	8074	62.00	7728	75.00	73104
38.00	8729	50.00	39616	63.00	5675	76.00	6078
39.00	3694	51.00	14371	64.00	596	77.10	2296
40.00	3562	52.00	819	65.00	302	77.90	1554
41.10	406	53.10	250	67.00	494	78.90	6150
42.90	330	55.00	744	68.00	15335	79.90	1157
44.00	2696	56.00	2430	69.00	15758	80.90	4640
45.00	1847	57.00	5376	70.00	1818	81.90	1045
46.30	208	58.10	491	72.10	668	85.90	208
47.10	2744	60.00	1722	73.00	6527	86.90	6253

Scan 1745 (14.313 min): U21528.D\data.ms
bfb

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
87.90	4945	105.00	12126	128.90	318	149.90	265
88.60	871	105.90	1758	129.80	530	155.10	408
90.90	1343	112.80	321	130.70	361	170.30	229
92.00	4299	114.70	304	134.90	544	170.50	231
93.00	6079	115.80	393	136.90	518	172.00	394
94.00	17928	116.90	1420	140.90	1674	173.90	114864
95.00	144320	117.90	695	141.80	589	174.90	8264
96.00	10908	118.90	1195	142.90	1647	175.90	112072
97.00	279	120.10	3181	143.90	275	176.90	8364
103.00	976	121.10	500	147.00	262	177.90	333
104.00	1284	127.90	727	147.80	434	191.00	257

Scan 1745 (14.313 min): U21528.D\data.ms
bfb

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
207.00	1109						
208.00	410						
253.00	723						
269.00	687						
270.10	236						
280.80	237						

SW-846 Method 8260

Data File : C:\msdchem\1\DATA\V140801\v33440.D

Vial: 2

Acq On : 1 Aug 2014 8:35 am

Operator: amym

Sample : bfb

Inst : MSV

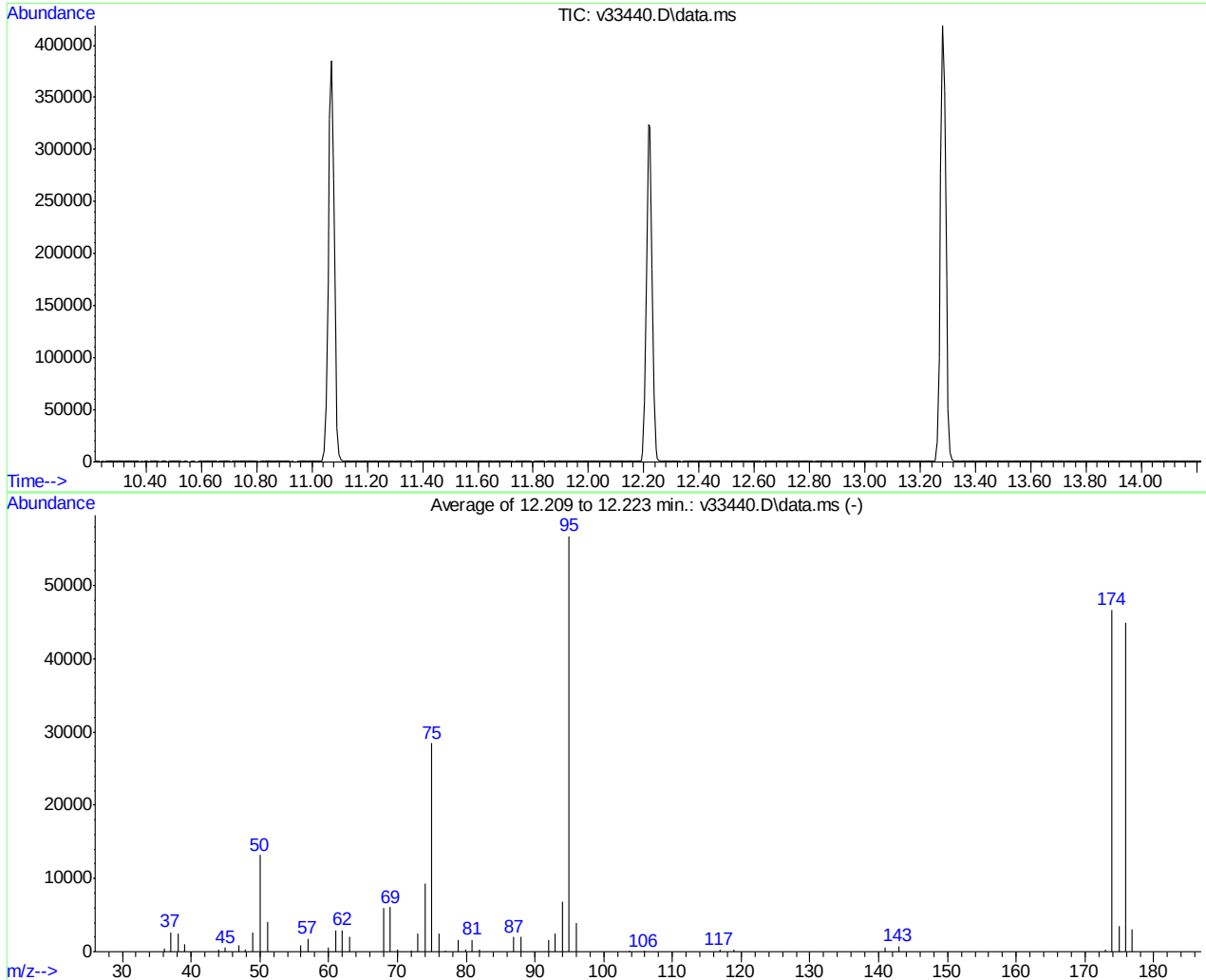
Misc : MS32359,MSV1226,,,,,5,1

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\v140801w.m (RTE Integrator)

Title : SW-846 Method 8260



Spectrum Information: Average of 12.209 to 12.223 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.2	13183	PASS
75	95	30	60	50.1	28419	PASS
95	95	100	100	100.0	56736	PASS
96	95	5	9	7.1	4000	PASS
173	174	0.00	2	0.7	328	PASS
174	95	50	100	82.2	46664	PASS
175	174	5	9	7.4	3430	PASS
176	174	95	101	96.1	44848	PASS
177	176	5	9	6.9	3078	PASS

v33440.D v140801w.m

Mon Aug 04 12:36:40 2014

Average of 12.209 to 12.223 min.: v33440.D\data.ms

bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	465	56.00	942	74.00	9375	93.00	2433
37.00	2671	57.00	1773	75.00	28419	94.00	6837
38.05	2458	59.95	580	76.00	2419	95.00	56736
39.00	1068	61.00	2915	77.00	125	96.00	4000
44.00	335	62.00	2919	78.90	1578	103.80	113
45.00	533	63.00	2105	79.95	342	105.90	122
47.00	917	68.00	6033	80.90	1620	116.90	290
47.95	277	69.00	6051	81.90	262	118.95	235
49.00	2616	70.00	363	86.95	2030	140.90	653
50.00	13183	72.00	117	87.95	2004	142.90	730
51.05	4027	73.00	2449	92.00	1636	173.00	328

Average of 12.209 to 12.223 min.: v33440.D\data.ms

bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
173.90	46664						
174.95	3430						
175.90	44848						
176.90	3078						

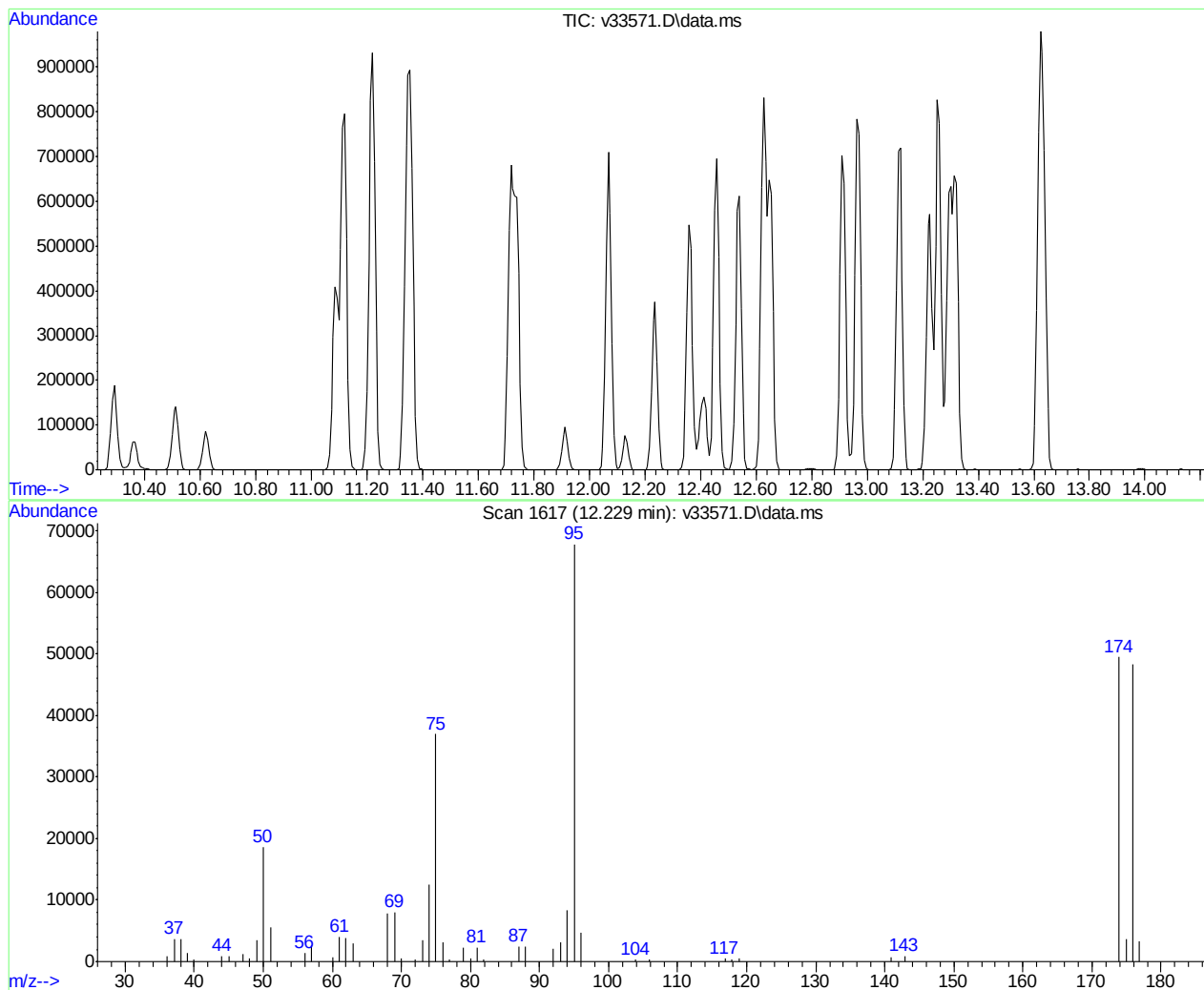
7.5.3

7

SW-846 Method 8260

Data File : C:\msdchem\1\DATA\V140806\v33571.D Vial: 2
Acq On : 6 Aug 2014 8:48 am Operator: amym
Sample : bfb Inst : MSV
Misc : MS32437,MSV1230,,,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\v140801w.m (RTE Integrator)
Title : SW-846 Method 8260



Spectrum Information: Scan 1617

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	27.5	18664	PASS
75	95	30	60	54.5	36928	PASS
95	95	100	100	100.0	67816	PASS
96	95	5	9	6.9	4696	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	72.9	49416	PASS
175	174	5	9	7.6	3731	PASS
176	174	95	101	97.6	48224	PASS
177	176	5	9	6.9	3331	PASS

Scan 1617 (12.229 min): v33571.D\data.ms
bfb

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	925	51.10	5554	73.00	3402	92.00	2009
37.10	3676	56.00	1463	74.00	12472	93.00	3130
38.00	3586	57.00	2580	75.00	36928	94.00	8269
39.00	1344	60.00	778	76.00	3132	95.00	67816
40.00	382	61.00	4061	77.00	374	96.00	4696
44.00	923	62.00	3841	78.90	2294	103.90	337
45.00	865	63.00	3003	80.00	579	105.90	323
47.00	1239	68.00	7836	80.90	2282	116.90	515
48.00	551	69.00	8029	81.90	420	117.90	327
49.00	3395	70.00	604	87.00	2433	118.90	448
50.00	18664	72.00	310	88.00	2371	140.90	787

Scan 1617 (12.229 min): v33571.D\data.ms
bfb

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
142.90	886						
173.90	49416						
175.00	3731						
175.90	48224						
176.90	3331						

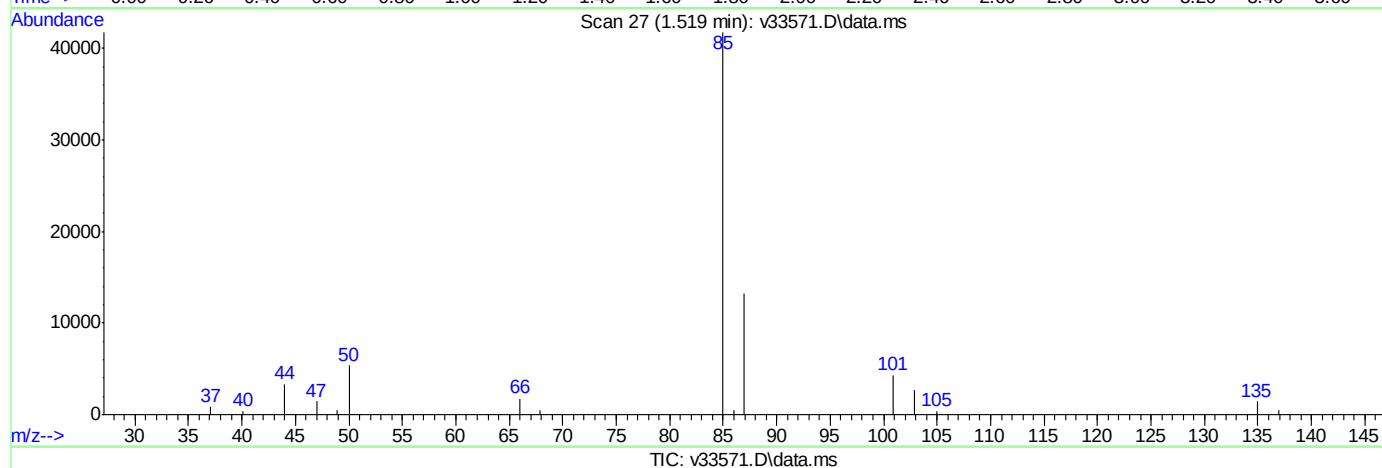
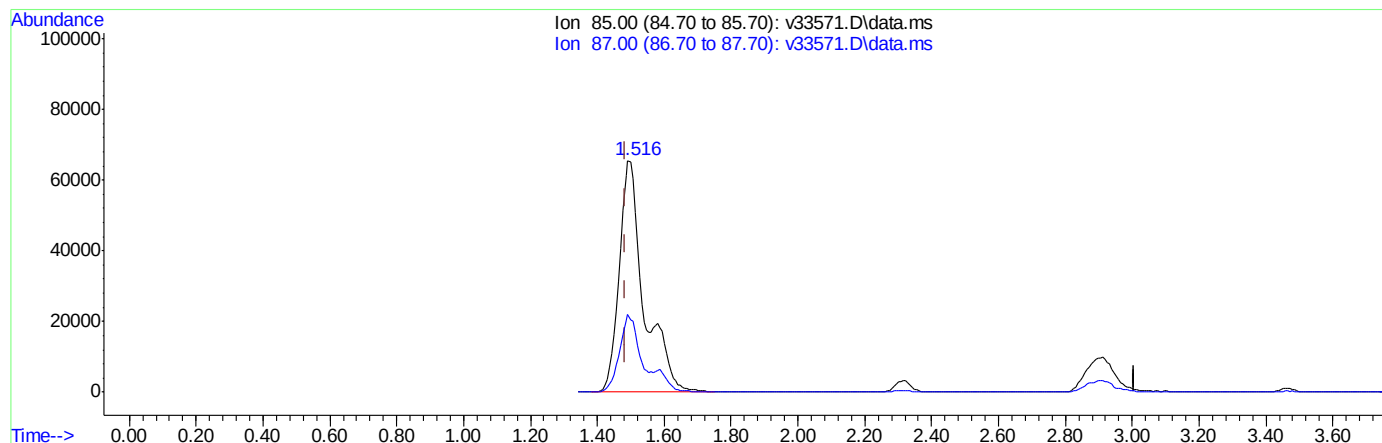
7.5.4

7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140806\
Data File : v33571.D
Acq On : 6 Aug 2014 8:48 am
Operator : amym
Sample : cc1226-50
Misc : MS32437,MSV1230,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 06 09:49:03 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 17:44:41 2014
Response via : Initial Calibration



(5) dichlorodifluoromethane (p)

1.516min (+0.031) 44.86ug/L

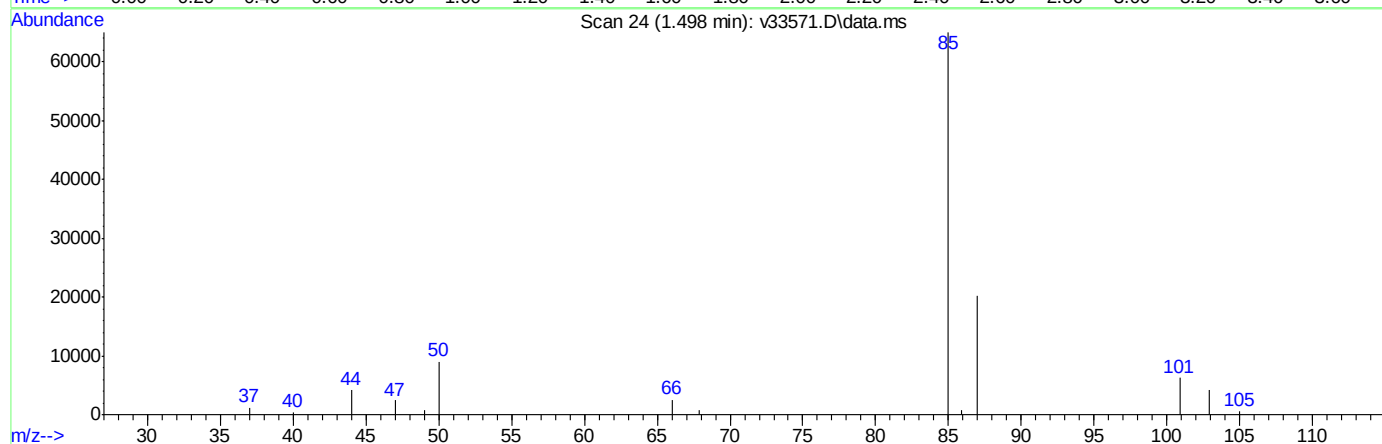
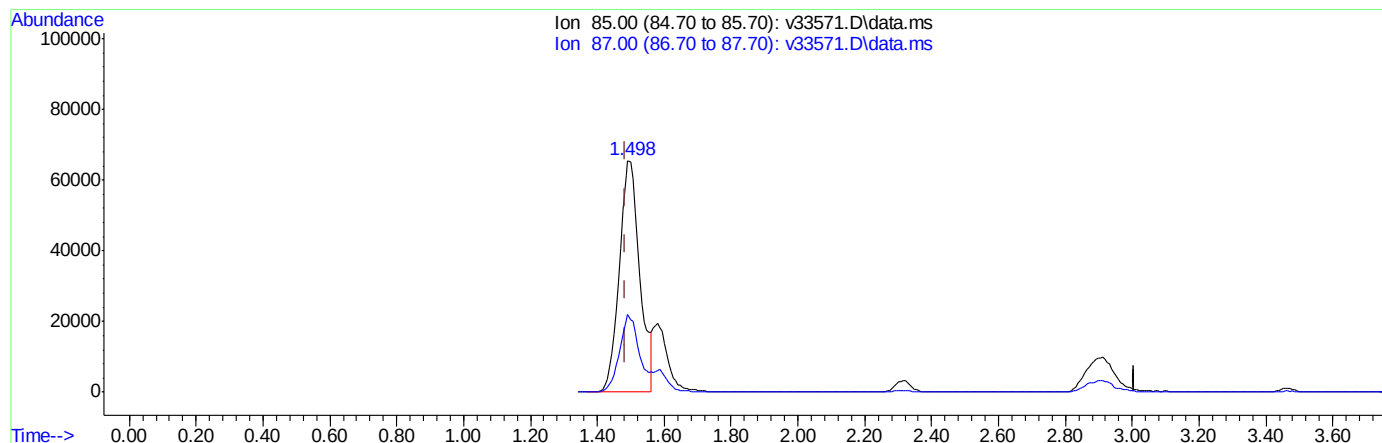
response 327612

Ion	Exp%	Act%
85.00	100	100
87.00	33.00	31.62
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140806\
Data File : v33571.D
Acq On : 6 Aug 2014 8:48 am
Operator : amym
Sample : cc1226-50
Misc : MS32437,MSV1230,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 06 09:49:03 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 17:44:41 2014
Response via : Initial Calibration



TIC: v33571.D\data.ms

(5) dichlorodifluoromethane (p)

1.498min (+0.013) 35.51ug/L m

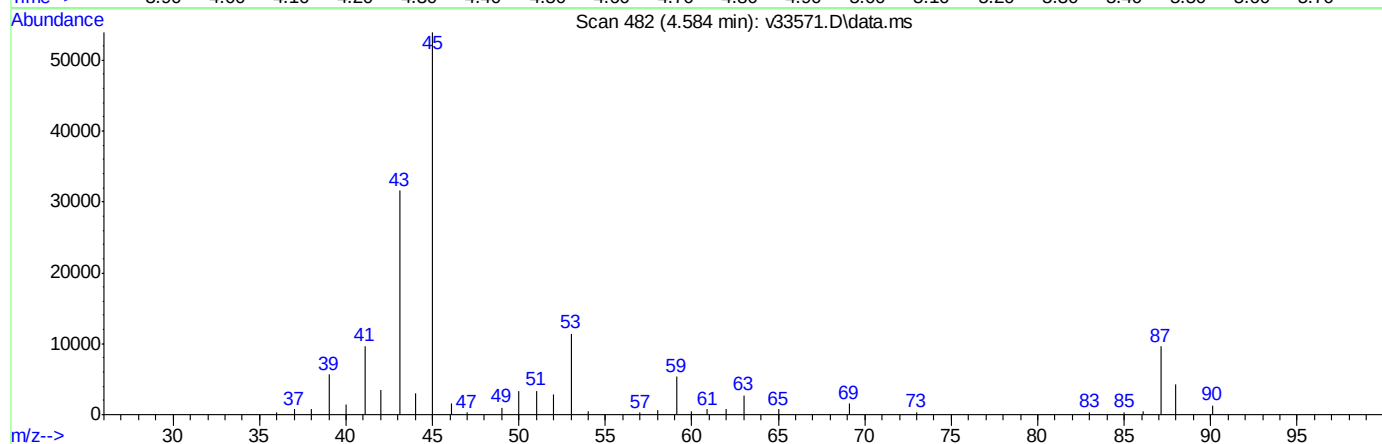
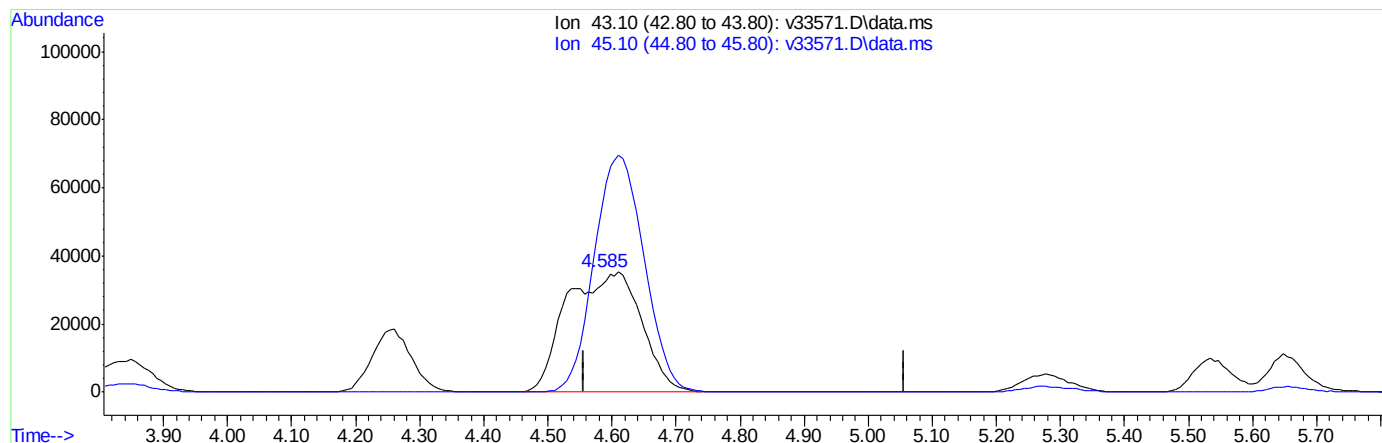
response 267245

Ion	Exp%	Act%
85.00	100	100
87.00	33.00	31.21
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140806\
Data File : v33571.D
Acq On : 6 Aug 2014 8:48 am
Operator : amym
Sample : cc1226-50
Misc : MS32437,MSV1230,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 06 09:49:03 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 17:44:41 2014
Response via : Initial Calibration



(37) ethyl acetate (p)

4.584min (+0.027) 60.19ug/L m

response 286517

Ion	Exp%	Act%
43.10	100	100
45.10	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140802\
 Data File : U21510.D
 Acq On : 3 Aug 2014 2:51 pm
 Operator : amym
 Sample : ic957-0.5
 Misc : ms32403,msu957,,,,5,1
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 04 08:37:41 2014
 Quant Method : D:\msdchem\1\methods\U140802W.m
 Quant Title : SW-846 Method 8260
 QLast Update : Mon Aug 04 08:33:30 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.607	65	395092	50.00	ppb	0.00
4) pentafluorobenzene	8.978	168	696636	50.00	ppb	0.00
43) 1,4-difluorobenzene	9.846	114	1036148	50.00	ppb	0.00
66) chlorobenzene-d5	13.104	82	361152	50.00	ppb	# 0.00
80) 1,4-dichlorobenzene-d4	15.667	152	640034	50.00	ppb	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	0.000	113	0	0.00	ppb	
Spiked Amount 50.000	Range 70 - 130		Recovery	=	0.00%#	
60) toluene-d8 (s)	0.000	98	0d	0.00	ppb	
Spiked Amount 50.000	Range 70 - 130		Recovery	=	0.00%#	
82) bromofluorobenzene (s)	0.000	95	0	0.00	ppb	
Spiked Amount 50.000	Range 70 - 130		Recovery	=	0.00%#	
Target Compounds						
47) benzene	9.647	78	13328	0.63	ppb	Qvalue 94
51) trichloroethene	10.268	95	3555	0.53	ppb	# 75
59) cis-1,3-dichloropropene	10.951	75	2728	0.42	ppb	74
63) trans-1,3-dichloropropene	11.392	75	2399	0.53	ppb	64
67) tetrachloroethene	12.469	166	2478	0.44	ppb	89
69) dibromochloromethane	12.070	129	2929	0.51	ppb	91
75) m,p-xylene	13.532	106	9275	1.08	ppb	95
76) o-xylene	13.938	106	5451	0.54	ppb	# 75
84) 1,1,2,2-tetrachloroethane	13.933	83	2909	0.50	ppb	# 61

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

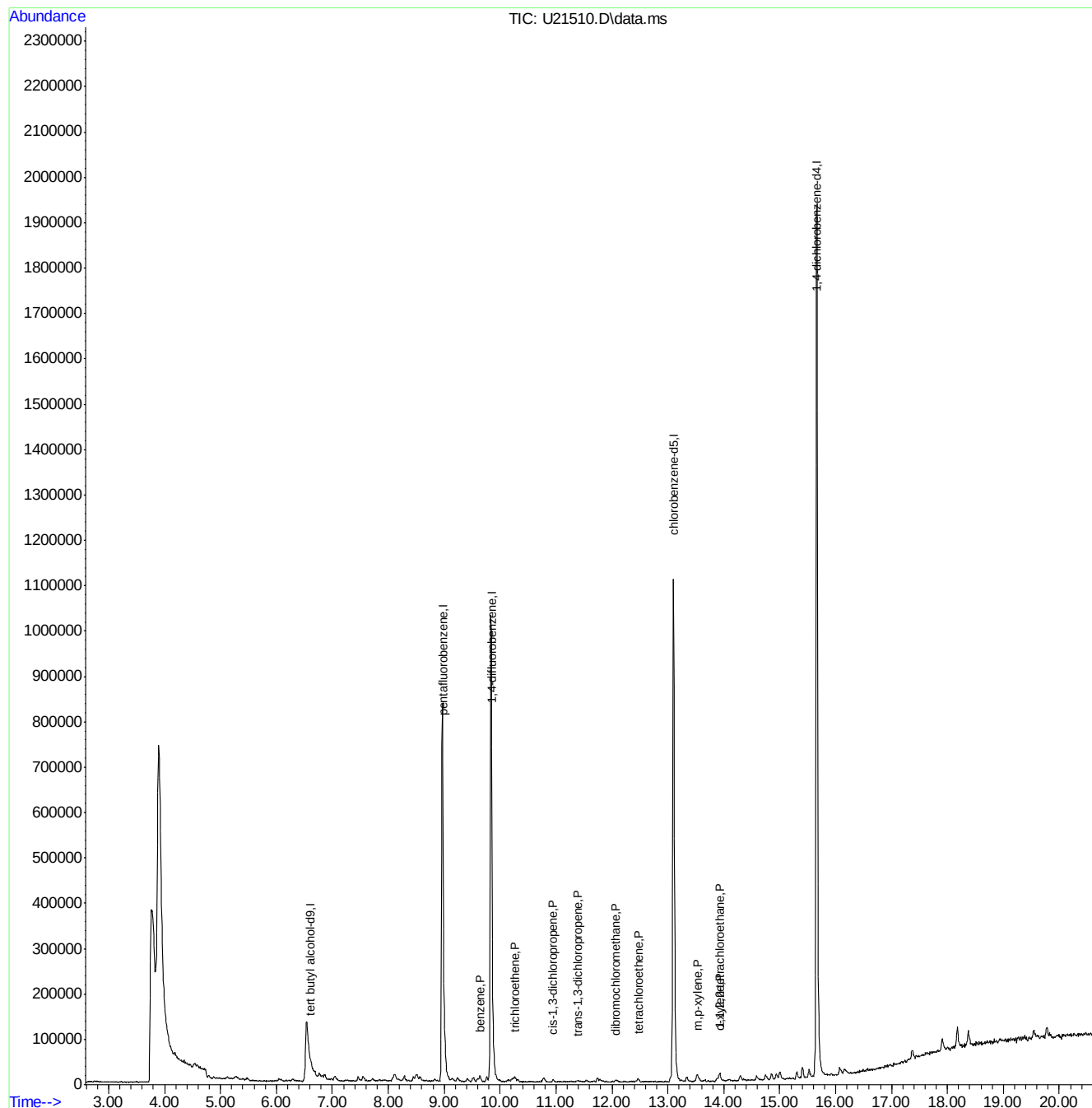
7.6.1

7

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140802\
Data File : U21510.D
Acq On : 3 Aug 2014 2:51 pm
Operator : amym
Sample : ic957-0.5
Misc : ms32403,msu957,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 04 08:37:41 2014
Quant Method : D:\msdchem\1\methods\U140802W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Aug 04 08:33:30 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140802\
 Data File : U21511.D
 Acq On : 3 Aug 2014 3:19 pm
 Operator : amym
 Sample : ic957-1
 Misc : ms32403,msu957,,,,5,1
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 04 08:41:00 2014
 Quant Method : D:\msdchem\1\methods\U140802W.m
 Quant Title : SW-846 Method 8260
 QLast Update : Mon Aug 04 08:33:30 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.621	65	466390	50.00	ppb	0.02
4) pentafluorobenzene	8.979	168	671440	50.00	ppb	0.00
43) 1,4-difluorobenzene	9.846	114	1004499	50.00	ppb	0.00
66) chlorobenzene-d5	13.104	82	376627	50.00	ppb	# 0.00
80) 1,4-dichlorobenzene-d4	15.666	152	656167	50.00	ppb	0.00

System Monitoring Compounds						
40) dibromofluoromethane (s)	0.000	113	0	0.00	ppb	
Spiked Amount	50.000	Range	70 - 130	Recovery	=	0.00%#
60) toluene-d8 (s)	0.000	98	0	0.00	ppb	
Spiked Amount	50.000	Range	70 - 130	Recovery	=	0.00%#
82) bromofluorobenzene (s)	0.000	95	0	0.00	ppb	
Spiked Amount	50.000	Range	70 - 130	Recovery	=	0.00%#

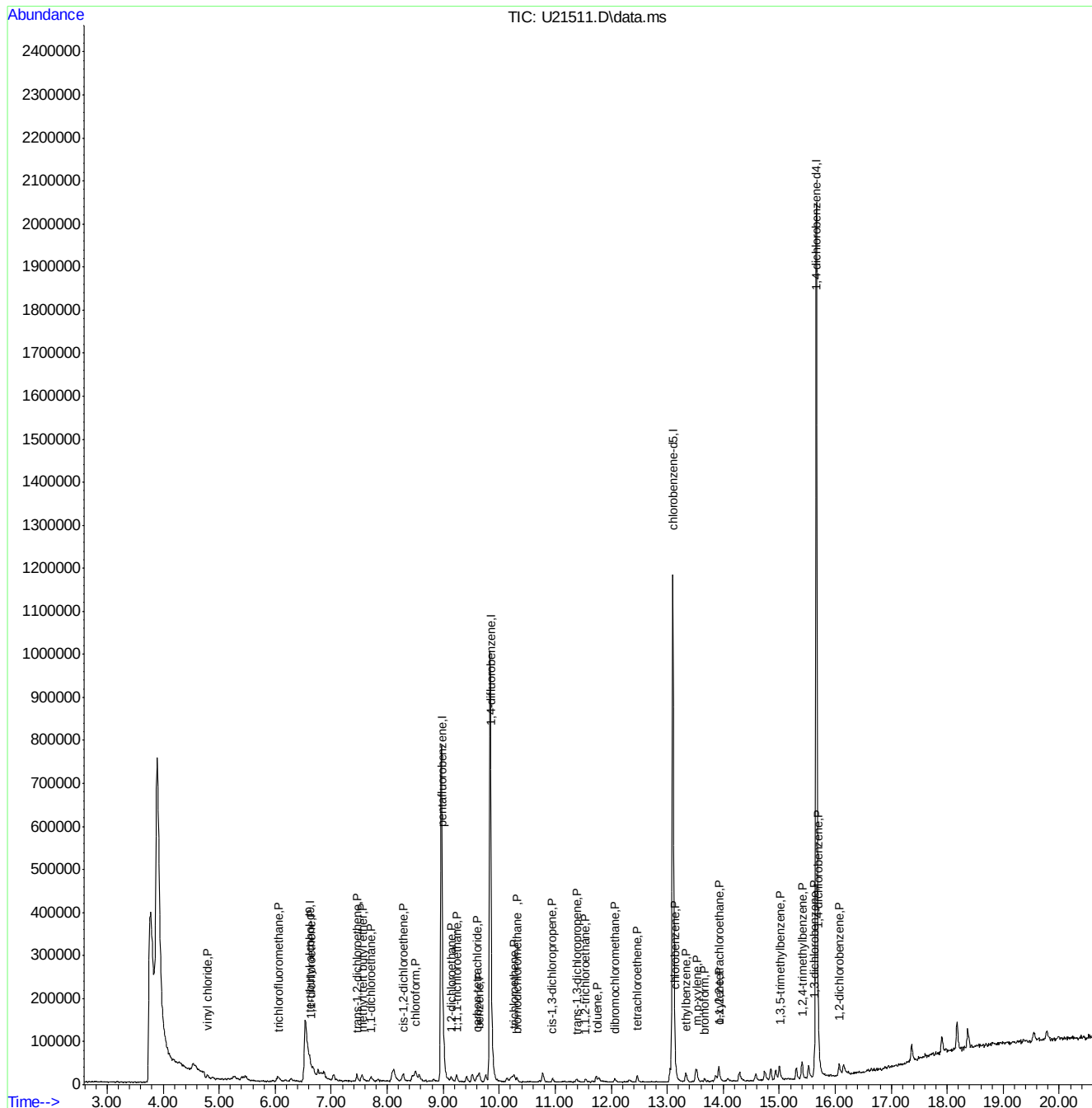
Target Compounds						Qvalue
7) vinyl chloride	4.795	62	14727	1.18	ppb	96
12) trichlorofluoromethane	6.059	101	16070	1.07	ppb	90
15) 1,1-dichloroethene	6.634	96	7101	1.13	ppb	# 62
19) methyl tert butyl ether	7.561	73	16240	1.02	ppb	92
22) trans-1,2-dichloroethene	7.469	96	8137	1.14	ppb	94
33) 1,1-dichloroethane	7.718	63	13103	0.92	ppb	93
37) cis-1,2-dichloroethene	8.294	96	9364	1.19	ppb	92
39) chloroform	8.494	83	11204	0.87	ppb	87
42) 1,1,1-trichloroethane	9.241	97	10066	0.82	ppb	76
45) carbon tetrachloride	9.605	117	9586	0.86	ppb	97
47) benzene	9.647	78	19693	0.96	ppb	85
48) 1,2-dichloroethane	9.146	62	8537	0.91	ppb	86
51) trichloroethene	10.267	95	5526	0.84	ppb	74
54) bromodichloromethane	10.321	83	6979	0.90	ppb	83
59) cis-1,3-dichloropropene	10.953	75	5599	0.89	ppb	92
62) toluene	11.742	92	9738	0.95	ppb	94
63) trans-1,3-dichloropropene	11.387	75	3985	0.91	ppb	81
64) 1,1,2-trichloroethane	11.542	83	2513	0.92	ppb	94
67) tetrachloroethene	12.466	166	4588	0.79	ppb	73
69) dibromochloromethane	12.068	129	5117	0.86	ppb	89
72) chlorobenzene	13.138	112	12568	0.95	ppb	83
74) ethylbenzene	13.337	91	19756	0.93	ppb	95
75) m,p-xylene	13.525	106	16742	1.88	ppb	# 72
76) o-xylene	13.929	106	10317	0.99	ppb	# 73
78) bromoform	13.671	173	3645	0.90	ppb	87
84) 1,1,2,2-tetrachloroethane	13.930	83	5803	0.97	ppb	88
89) 1,3,5-trimethylbenzene	15.009	105	23979	0.77	ppb	84
91) 1,2,4-trimethylbenzene	15.410	105	24986	0.80	ppb	98
93) 1,3-dichlorobenzene	15.629	146	16238	0.88	ppb	86
95) 1,4-dichlorobenzene	15.694	146	17924	0.96	ppb	92
96) 1,2-dichlorobenzene	16.080	146	18395	0.89	ppb	84

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

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140802\
Data File : U21511.D
Acq On : 3 Aug 2014 3:19 pm
Operator : amym
Sample : ic957-1
Misc : ms32403,msu957,,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 04 08:41:00 2014
Quant Method : D:\msdchem\1\methods\U140802W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Aug 04 08:33:30 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140802\
 Data File : U21512.D
 Acq On : 3 Aug 2014 3:46 pm
 Operator : amym
 Sample : ic957-2
 Misc : ms32403,msu957,,,,5,1
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 04 08:55:52 2014
 Quant Method : D:\msdchem\1\methods\U140802W.m
 Quant Title : SW-846 Method 8260
 QLast Update : Mon Aug 04 08:33:30 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.607	65	380588	50.00	ppb	0.00
4) pentafluorobenzene	8.977	168	776584	50.00	ppb	0.00
43) 1,4-difluorobenzene	9.844	114	1176382	50.00	ppb	0.00
66) chlorobenzene-d5	13.102	82	426903	50.00	ppb	# 0.00
80) 1,4-dichlorobenzene-d4	15.665	152	669032	50.00	ppb	0.00

System Monitoring Compounds						
40) dibromofluoromethane (s)	0.000	113	0	0.00	ppb	
Spiked Amount	50.000	Range	70 - 130	Recovery	=	0.00%#
60) toluene-d8 (s)	0.000	98	0	0.00	ppb	
Spiked Amount	50.000	Range	70 - 130	Recovery	=	0.00%#
82) bromofluorobenzene (s)	0.000	95	0	0.00	ppb	
Spiked Amount	50.000	Range	70 - 130	Recovery	=	0.00%#

Target Compounds						Qvalue
2) tertiary butyl alcohol	6.291	59	14384	22.75	ppb	80
3) Ethanol	5.529	45	19682	235.63	ppb	# 39
5) dichlorodifluoromethane	4.348	85	21128	1.69	ppb	60
6) chloromethane	4.548	50	38618	1.81	ppb	98
7) vinyl chloride	4.807	62	24149	1.67	ppb	95
8) bromomethane	5.279	96	14149	1.77	ppb	85
9) chloroethane	5.417	64	8574	1.57	ppb	86
12) trichlorofluoromethane	6.066	101	29840	1.72	ppb	91
15) 1,1-dichloroethene	6.630	96	15832	2.18	ppb	89
18) methylene chloride	6.776	84	16766m	2.13	ppb	
19) methyl tert butyl ether	7.559	73	35847	1.95	ppb	71
22) trans-1,2-dichloroethene	7.472	96	18230	2.21	ppb	# 78
28) di-isopropyl ether	8.129	45	61266	1.95	ppb	93
33) 1,1-dichloroethane	7.718	63	32699	1.98	ppb	92
34) tert-butyl ethyl ether	8.521	59	49267	1.98	ppb	94
37) cis-1,2-dichloroethene	8.289	96	18731	2.05	ppb	84
39) chloroform	8.494	83	29236	1.96	ppb	100
42) 1,1,1-trichloroethane	9.241	97	25991	1.84	ppb	98
45) carbon tetrachloride	9.604	117	25651	1.97	ppb	97
47) benzene	9.643	78	49308	2.06	ppb	95
48) 1,2-dichloroethane	9.147	62	23188	2.11	ppb	92
49) tert-amyl methyl ether	9.762	73	31677	1.93	ppb	89
51) trichloroethene	10.266	95	15606	2.03	ppb	# 71
52) 1,2-dichloropropane	10.233	63	14318	2.08	ppb	91
53) dibromomethane	10.206	93	9440	2.19	ppb	95
54) bromodichloromethane	10.319	83	18273	2.01	ppb	96
59) cis-1,3-dichloropropene	10.948	75	15495	2.11	ppb	71
62) toluene	11.730	92	24402	2.02	ppb	85
63) trans-1,3-dichloropropene	11.376	75	12038	2.34	ppb	96
64) 1,1,2-trichloroethane	11.539	83	6486	2.02	ppb	# 70
67) tetrachloroethene	12.461	166	14684	2.23	ppb	85
69) dibromochloromethane	12.063	129	14846	2.19	ppb	80
70) 1,2-dibromoethane	12.322	107	10872	2.43	ppb	88
72) chlorobenzene	13.137	112	32759	2.17	ppb	85

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140802\
Data File : U21512.D
Acq On : 3 Aug 2014 3:46 pm
Operator : amym
Sample : ic957-2
Misc : ms32403,msu957,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 04 08:55:52 2014
Quant Method : D:\msdchem\1\methods\U140802W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Aug 04 08:33:30 2014
Response via : Initial Calibration

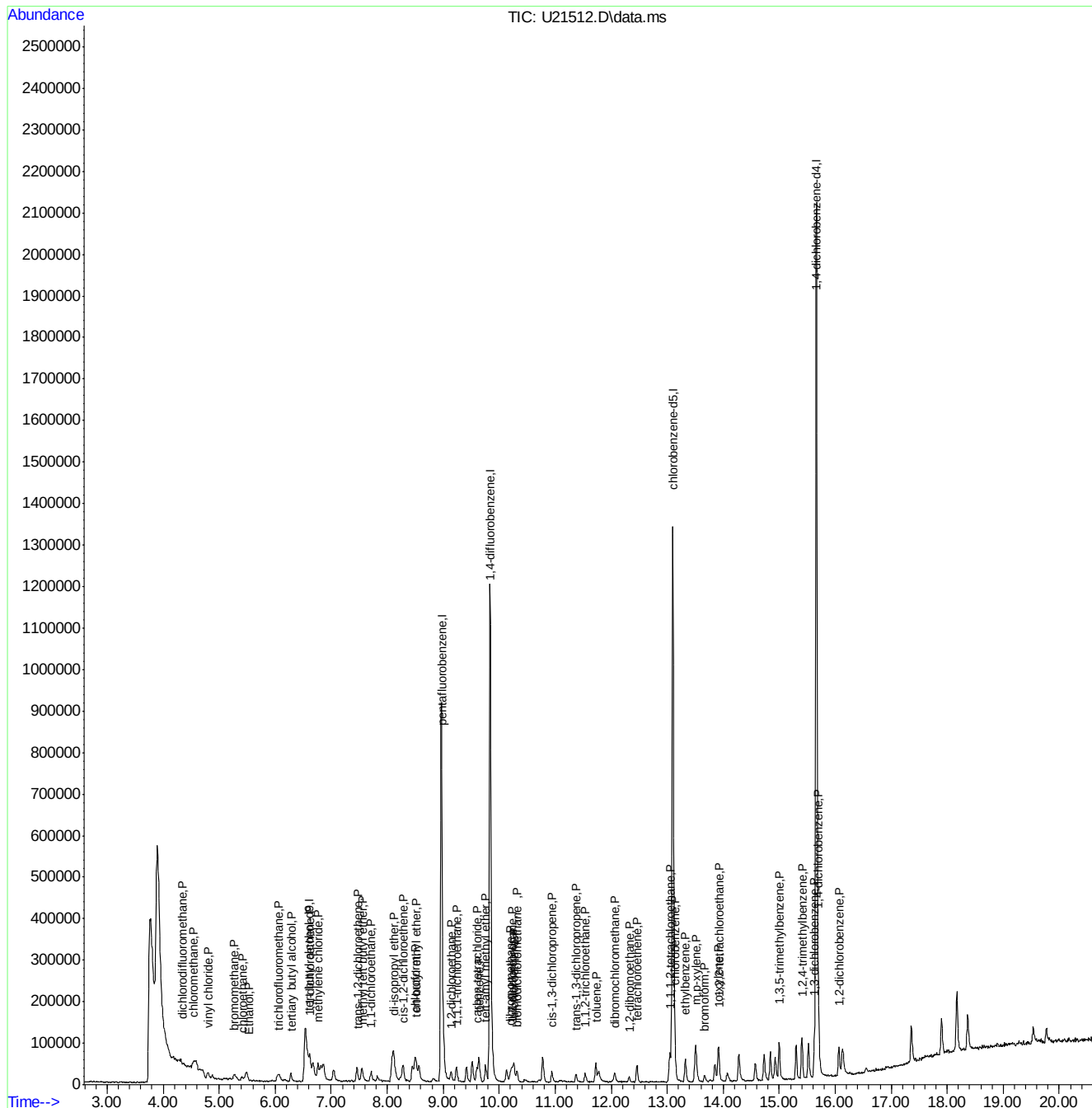
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
73) 1,1,1,2-tetrachloroethane	13.055	131	17442	1.89	ppb	90
74) ethylbenzene	13.327	91	50025	2.08	ppb	92
75) m,p-xylene	13.513	106	40970	4.05	ppb	95
76) o-xylene	13.919	106	22305	1.88	ppb	82
78) bromoform	13.670	173	9400	2.04	ppb	100
84) 1,1,2,2-tetrachloroethane	13.925	83	14137	2.32	ppb	98
89) 1,3,5-trimethylbenzene	15.004	105	58297	1.83	ppb	99
91) 1,2,4-trimethylbenzene	15.407	105	59453	1.88	ppb	93
93) 1,3-dichlorobenzene	15.628	146	37957	2.01	ppb	96
95) 1,4-dichlorobenzene	15.693	146	39303	2.06	ppb	95
96) 1,2-dichlorobenzene	16.072	146	39626	1.88	ppb	91

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

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140802\
Data File : U21512.D
Acq On : 3 Aug 2014 3:46 pm
Operator : amym
Sample : ic957-2
Misc : ms32403,msu957,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 04 08:55:52 2014
Quant Method : D:\msdchem\1\methods\U140802W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Aug 04 08:33:30 2014
Response via : Initial Calibration



U140802W.m Mon Aug 04 09:11:07 2014

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7.6.3

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140802\
 Data File : U21513.D
 Acq On : 3 Aug 2014 4:14 pm
 Operator : amym
 Sample : ic957-5
 Misc : ms32403,msu957,,,,5,1
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 04 08:57:24 2014
 Quant Method : D:\msdchem\1\methods\U140802W.m
 Quant Title : SW-846 Method 8260
 QLast Update : Mon Aug 04 08:33:30 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.611	65	422475	50.00	ppb	0.01
4) pentafluorobenzene	8.977	168	703589	50.00	ppb	0.00
43) 1,4-difluorobenzene	9.844	114	1038985	50.00	ppb	0.00
66) chlorobenzene-d5	13.101	82	355502	50.00	ppb	# 0.00
80) 1,4-dichlorobenzene-d4	15.664	152	658561	50.00	ppb	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.614	113	40413	5.02	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	10.04%#		
60) toluene-d8 (s)	11.650	98	77402	4.56	ppb	0.01
Spiked Amount 50.000	Range 70 - 130		Recovery =	9.12%#		
82) bromofluorobenzene (s)	14.338	95	35235	4.89	ppb	0.01
Spiked Amount 50.000	Range 70 - 130		Recovery =	9.78%#		
Target Compounds						
						Qvalue
2) tertiary butyl alcohol	6.293	59	30568	43.55	ppb	100
3) Ethanol	5.579	45	52263m	563.65	ppb	
5) dichlorodifluoromethane	4.342	85	58043	5.13	ppb	97
6) chloromethane	4.550	50	103675	5.36	ppb	96
7) vinyl chloride	4.801	62	65742	5.02	ppb	96
8) bromomethane	5.277	96	38893	5.38	ppb	98
9) chloroethane	5.418	64	25284	5.10	ppb	93
10) ethyl ether	6.293	59	30568	4.87	ppb	80
11) acetonitrile	6.057	41	4008m	5.13	ppb	
12) trichlorofluoromethane	6.063	101	78529	5.00	ppb	99
13) freon-113	6.826	101	26882	3.31	ppb	86
14) acrolein	6.055	56	10760	26.61	ppb	92
15) 1,1-dichloroethene	6.628	96	26029	3.96	ppb	90
17) Methyl Acetate	6.847	43	37431	5.93	ppb	# 91
18) methylene chloride	6.777	84	37419	5.25	ppb	# 80
19) methyl tert butyl ether	7.567	73	84159	5.05	ppb	98
20) acrylonitrile	6.697	53	15981	5.14	ppb	# 68
21) allyl chloride	6.874	41	66057	4.58	ppb	98
22) trans-1,2-dichloroethene	7.470	96	34723	4.64	ppb	98
23) iodomethane	6.687	142	72223	4.73	ppb	94
24) carbon disulfide	7.052	76	86337	4.33	ppb	96
25) propionitrile	8.082	54	3076	4.26	ppb	100
26) vinyl acetate	7.844	43	63223	4.85	ppb	93
27) chloroprene	8.085	53	47599	3.73	ppb	94
28) di-isopropyl ether	8.131	45	140383	4.94	ppb	96
29) methacrylonitrile	8.261	41	21414	5.17	ppb	82
30) 2-butanone	8.143	72	2915	3.35	ppb	# 48
31) Ethyl Acetate	8.133	43	109341	4.49	ug/L	85
32) Hexane	8.113	41	49463	4.22	ppb	# 66
33) 1,1-dichloroethane	7.719	63	70283	4.71	ppb	98
34) tert-butyl ethyl ether	8.520	59	108423	4.80	ppb	95
35) isobutyl alcohol	8.551	43	27067	31.84	ppb	# 1
36) 2,2-dichloropropane	8.576	77	39878	4.37	ppb	92
37) cis-1,2-dichloroethene	8.295	96	42328	5.12	ppb	95

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140802\
 Data File : U21513.D
 Acq On : 3 Aug 2014 4:14 pm
 Operator : amym
 Sample : ic957-5
 Misc : ms32403,msu957,,,,5,1
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 04 08:57:24 2014
 Quant Method : D:\msdchem\1\methods\U140802W.m
 Quant Title : SW-846 Method 8260
 QLast Update : Mon Aug 04 08:33:30 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
38) bromochloromethane	8.454	128	23888	4.98	ppb	# 72
39) chloroform	8.493	83	66106	4.90	ppb	98
41) Tetrahydrofuran	8.838	42	12747	5.85	ppb	97
42) 1,1,1-trichloroethane	9.242	97	51909	4.06	ppb	97
44) Cyclohexane	9.525	56	50599	3.73	ppb	# 89
45) carbon tetrachloride	9.604	117	44862	3.91	ppb	83
46) 1,1-dichloropropene	9.419	75	32298	4.13	ppb	88
47) benzene	9.643	78	104756	4.95	ppb	91
48) 1,2-dichloroethane	9.144	62	49948	5.15	ppb	92
49) tert-amyl methyl ether	9.761	73	71123	4.92	ppb	87
50) heptane	10.138	43	34859m	4.00	ppb	
51) trichloroethene	10.264	95	31673	4.67	ppb	73
52) 1,2-dichloropropane	10.233	63	28777	4.73	ppb	91
53) dibromomethane	10.205	93	19774	5.19	ppb	95
54) bromodichloromethane	10.319	83	38433	4.78	ppb	95
55) Methylcyclohexane	10.779	83	37282	3.92	ppb	88
56) 2-chloroethyl vinyl ether	10.729	63	7991	4.71	ppb	88
57) methyl methacrylate	10.458	69	7026	3.92	ppb	87
58) 1,4-dioxane	10.467	88	870m	22.31	ppb	
59) cis-1,3-dichloropropene	10.944	75	27719	4.27	ppb	92
61) 4-methyl-2-pentanone	11.107	43	26625	4.69	ppb	# 88
62) toluene	11.722	92	45447	4.27	ppb	89
63) trans-1,3-dichloropropene	11.371	75	20587	4.53	ppb	97
64) 1,1,2-trichloroethane	11.536	83	12194	4.31	ppb	# 73
65) ethyl methacrylate	11.789	69	16557	4.74	ppb	# 1
67) tetrachloroethene	12.459	166	21753	3.97	ppb	94
68) 1,3-dichloropropane	11.777	76	21645	4.69	ppb	91
69) dibromochloromethane	12.060	129	27521	4.87	ppb	96
70) 1,2-dibromoethane	12.317	107	18901	5.07	ppb	95
71) 2-hexanone	12.022	43	18147	4.78	ppb	95
72) chlorobenzene	13.137	112	61924	4.93	ppb	90
73) 1,1,1,2-tetrachloroethane	13.054	131	39442	5.13	ppb	99
74) ethylbenzene	13.322	91	94838	4.73	ppb	90
75) m,p-xylene	13.505	106	80588	9.57	ppb	82
76) o-xylene	13.913	106	49191	4.99	ppb	83
77) styrene	13.850	104	64560	5.25	ppb	99
78) bromoform	13.666	173	19962	5.20	ppb	90
79) trans-1,4-dichloro-2-b...	14.082	53	5268	4.03	ppb	93
81) isopropylbenzene	14.281	105	121291	3.85	ppb	98
83) bromobenzene	14.569	156	37366	4.65	ppb	# 71
84) 1,1,2,2-tetrachloroethane	13.920	83	29141	4.85	ppb	97
85) 1,2,3-trichloropropane	14.075	75	26223	4.48	ppb	99
86) n-propylbenzene	14.727	91	133131	4.14	ppb	96
87) 2-chlorotoluene	14.838	91	90905	4.35	ppb	77
88) 4-chlorotoluene	14.921	91	89694	4.53	ppb	84
89) 1,3,5-trimethylbenzene	15.000	105	122867	3.93	ppb	95
90) tert-butylbenzene	15.302	91	51926	2.94	ppb	81
91) 1,2,4-trimethylbenzene	15.405	105	133052	4.27	ppb	97
92) sec-butylbenzene	15.526	105	142576	3.63	ppb	94
93) 1,3-dichlorobenzene	15.626	146	84942	4.56	ppb	96

7.6.4

7

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140802\
Data File : U21513.D
Acq On : 3 Aug 2014 4:14 pm
Operator : amym
Sample : ic957-5
Misc : ms32403,msu957,,,,5,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 04 08:57:24 2014
Quant Method : D:\msdchem\1\methods\U140802W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Aug 04 08:33:30 2014
Response via : Initial Calibration

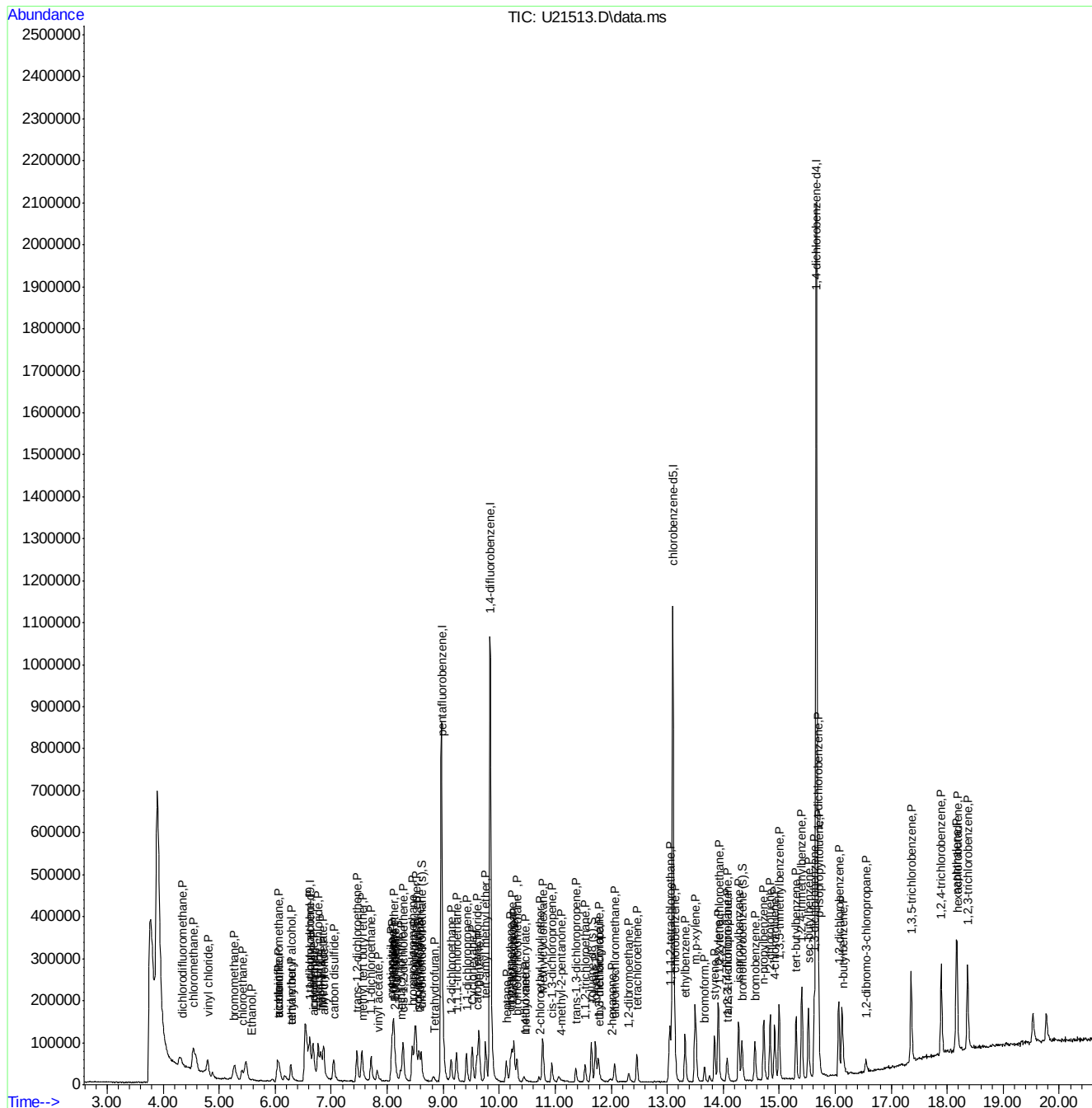
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94)	p-isopropyltoluene	15.705	119	139646	3.93	ppb	94
95)	1,4-dichlorobenzene	15.692	146	88025	4.69	ppb	96
96)	1,2-dichlorobenzene	16.068	146	95909	4.63	ppb	97
97)	n-butylbenzene	16.133	91	126500	4.17	ppb	90
98)	1,2-dibromo-3-chloropr...	16.556	75	10785	5.33	ppb	89
99)	1,3,5-trichlorobenzene	17.361	180	82551	4.46	ug/L	98
100)	1,2,4-trichlorobenzene	17.899	180	85140	4.72	ppb	94
101)	hexachlorobutadiene	18.181	225	36192	4.46	ppb	99
102)	naphthalene	18.165	128	193939	4.45	ppb	100
105)	1,2,3-trichlorobenzene	18.369	180	81244	4.84	ppb	96

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

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140802\
Data File : U21513.D
Acq On : 3 Aug 2014 4:14 pm
Operator : amym
Sample : ic957-5
Misc : ms32403,msu957,,,,5,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 04 08:57:24 2014
Quant Method : D:\msdchem\1\methods\U140802W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Aug 04 08:33:30 2014
Response via : Initial Calibration



U140802W.m Mon Aug 04 09:11:12 2014

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7.6.4

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140802\
 Data File : U21514.D
 Acq On : 3 Aug 2014 4:41 pm
 Operator : amym
 Sample : ic957-10
 Misc : ms32403,msu957,,,,5,1
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 04 08:58:13 2014
 Quant Method : D:\msdchem\1\methods\U140802W.m
 Quant Title : SW-846 Method 8260
 QLast Update : Mon Aug 04 08:33:30 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.609	65	456021	50.00	ppb	0.00
4) pentafluorobenzene	8.975	168	648604	50.00	ppb	0.00
43) 1,4-difluorobenzene	9.843	114	993800	50.00	ppb	0.00
66) chlorobenzene-d5	13.100	82	369077	50.00	ppb	# 0.00
80) 1,4-dichlorobenzene-d4	15.663	152	654170	50.00	ppb	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.613	113	70874	9.55	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	19.10%#		
60) toluene-d8 (s)	11.645	98	152361	9.38	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	18.76%#		
82) bromofluorobenzene (s)	14.333	95	66496	9.30	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	18.60%#		
Target Compounds						
						Qvalue
2) tertiary butyl alcohol	6.291	59	57360	75.71	ppb	88
3) Ethanol	5.588	45	101627	1015.41	ppb	99
5) dichlorodifluoromethane	4.322	85	112040	10.75	ppb	99
6) chloromethane	4.547	50	194100	10.89	ppb	97
7) vinyl chloride	4.796	62	129140	10.70	ppb	100
8) bromomethane	5.274	96	69485	10.43	ppb	88
9) chloroethane	5.418	64	48341	10.58	ppb	89
10) ethyl ether	6.291	59	57360	9.91	ppb	78
11) acetone	6.077	41	10888m	15.12	ppb	
12) trichlorofluoromethane	6.061	101	145930	10.08	ppb	97
13) freon-113	6.826	101	73538	9.82	ppb	84
14) acrolein	6.054	56	19604	52.59	ppb	92
15) 1,1-dichloroethene	6.631	96	65643	10.84	ppb	92
16) acetone	6.215	58	19112	11.78	ppb	# 79
17) Methyl Acetate	6.831	43	65314	11.22	ppb	# 83
18) methylene chloride	6.779	84	71163	10.84	ppb	# 79
19) methyl tert butyl ether	7.565	73	162929	10.60	ppb	96
20) acrylonitrile	6.694	53	30798	10.74	ppb	83
21) allyl chloride	6.873	41	139568	10.50	ppb	97
22) trans-1,2-dichloroethene	7.469	96	73559	10.67	ppb	90
23) iodomethane	6.687	142	145872	10.37	ppb	90
24) carbon disulfide	7.052	76	193639	10.54	ppb	96
25) propionitrile	8.082	54	6137	9.21	ppb	100
26) vinyl acetate	7.833	43	108502	9.03	ppb	99
27) chloroprene	8.085	53	114242	9.71	ppb	83
28) di-isopropyl ether	8.127	45	268408	10.24	ppb	96
29) methacrylonitrile	8.254	41	38934	10.20	ppb	85
30) 2-butanone	8.153	72	8359	10.42	ppb	# 38
31) Ethyl Acetate	8.127	43	229959	10.25	ug/L	95
32) Hexane	8.110	41	111031	10.26	ppb	# 78
33) 1,1-dichloroethane	7.718	63	138488	10.06	ppb	96
34) tert-butyl ethyl ether	8.519	59	214260	10.28	ppb	97
35) isobutyl alcohol	8.538	43	48556m	61.96	ppb	
36) 2,2-dichloropropane	8.574	77	90010	10.69	ppb	89

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140802\
 Data File : U21514.D
 Acq On : 3 Aug 2014 4:41 pm
 Operator : amym
 Sample : ic957-10
 Misc : ms32403,msu957,,,,5,1
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 04 08:58:13 2014
 Quant Method : D:\msdchem\1\methods\U140802W.m
 Quant Title : SW-846 Method 8260
 QLast Update : Mon Aug 04 08:33:30 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) cis-1,2-dichloroethene	8.289	96	78460	10.30	ppb	98
38) bromochloromethane	8.454	128	44049	9.96	ppb #	78
39) chloroform	8.492	83	121085	9.73	ppb	92
41) Tetrahydrofuran	8.835	42	23243	11.56	ppb	90
42) 1,1,1-trichloroethane	9.241	97	119114	10.10	ppb	95
44) Cyclohexane	9.524	56	135630	10.45	ppb	91
45) carbon tetrachloride	9.604	117	114776	10.45	ppb	97
46) 1,1-dichloropropene	9.418	75	73330	9.79	ppb	91
47) benzene	9.642	78	199191	9.83	ppb	96
48) 1,2-dichloroethane	9.144	62	92815	10.00	ppb	98
49) tert-amyl methyl ether	9.770	73	156652	11.33	ppb	90
50) heptane	10.133	43	84000	10.09	ppb #	59
51) trichloroethene	10.262	95	59694	9.20	ppb #	68
52) 1,2-dichloropropane	10.230	63	56037	9.63	ppb	99
53) dibromomethane	10.204	93	36422	10.00	ppb	87
54) bromodichloromethane	10.317	83	70027	9.10	ppb	96
55) Methylcyclohexane	10.779	83	94705	10.42	ppb	85
56) 2-chloroethyl vinyl ether	10.716	63	19346	11.92	ppb	92
57) methyl methacrylate	10.442	69	16999	9.93	ppb #	80
58) 1,4-dioxane	10.461	88	2645m	70.90	ppb	
59) cis-1,3-dichloropropene	10.941	75	57827	9.32	ppb	94
61) 4-methyl-2-pentanone	11.088	43	58303	10.73	ppb #	44
62) toluene	11.717	92	97169	9.54	ppb	97
63) trans-1,3-dichloropropene	11.366	75	43971	10.11	ppb	95
64) 1,1,2-trichloroethane	11.533	83	27426	10.13	ppb	96
65) ethyl methacrylate	11.768	69	36889	11.03	ppb #	1
67) tetrachloroethene	12.457	166	52775	9.27	ppb	95
68) 1,3-dichloropropane	11.770	76	47245	9.87	ppb	81
69) dibromochloromethane	12.058	129	56769	9.68	ppb	91
70) 1,2-dibromoethane	12.311	107	39315	10.16	ppb	94
71) 2-hexanone	11.978	43	46928	11.91	ppb #	62
72) chlorobenzene	13.136	112	127685	9.80	ppb	86
73) 1,1,1,2-tetrachloroethane	13.054	131	79091	9.91	ppb	94
74) ethylbenzene	13.316	91	204705	9.83	ppb	84
75) m,p-xylene	13.500	106	170400	19.50	ppb	84
76) o-xylene	13.910	106	100735	9.84	ppb	89
77) styrene	13.844	104	131795	10.32	ppb	96
78) bromoform	13.664	173	40730	10.22	ppb	95
79) trans-1,4-dichloro-2-b...	14.074	53	10392	7.67	ppb #	26
81) isopropylbenzene	14.276	105	269236	8.60	ppb	97
83) bromobenzene	14.564	156	74151	9.29	ppb #	69
84) 1,1,2,2-tetrachloroethane	13.917	83	59114	9.91	ppb	97
85) 1,2,3-trichloropropane	14.068	75	53759	9.25	ppb	97
86) n-propylbenzene	14.721	91	289921	9.07	ppb	92
87) 2-chlorotoluene	14.836	91	187255	9.02	ppb	80
88) 4-chlorotoluene	14.916	91	183055	9.31	ppb	86
89) 1,3,5-trimethylbenzene	14.997	105	269617	8.67	ppb	91
90) tert-butylbenzene	15.299	91	130668	7.45	ppb	83
91) 1,2,4-trimethylbenzene	15.403	105	275140	8.89	ppb	95
92) sec-butylbenzene	15.523	105	326071	8.36	ppb	89

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140802\
Data File : U21514.D
Acq On : 3 Aug 2014 4:41 pm
Operator : amym
Sample : ic957-10
Misc : ms32403,msu957,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 04 08:58:13 2014
Quant Method : D:\msdchem\1\methods\U140802W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Aug 04 08:33:30 2014
Response via : Initial Calibration

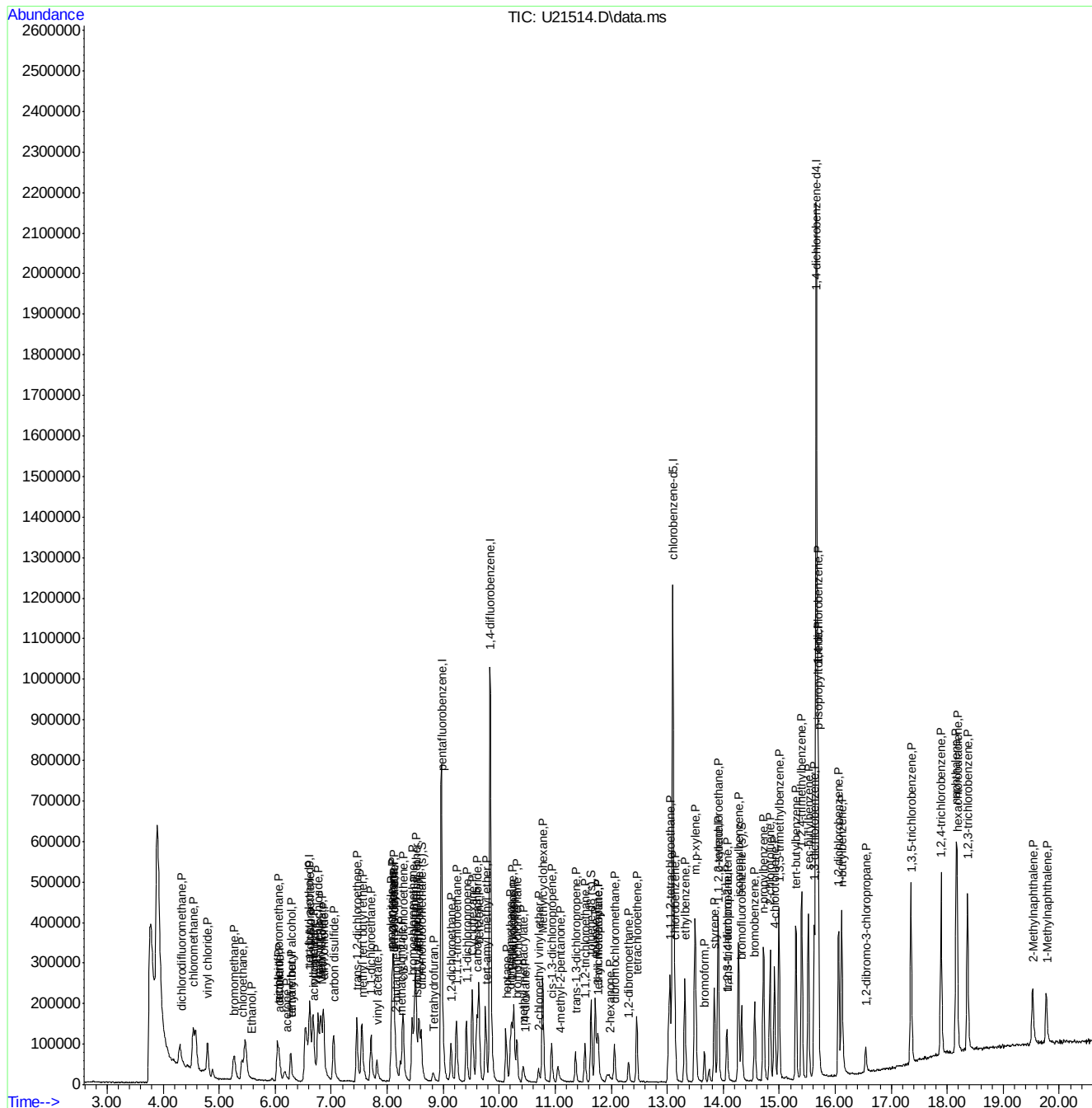
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93)	1,3-dichlorobenzene	15.625	146	169010	9.14	ppb	95
94)	p-isopropyltoluene	15.699	119	316268	8.97	ppb	95
95)	1,4-dichlorobenzene	15.692	146	175292	9.41	ppb	98
96)	1,2-dichlorobenzene	16.063	146	188746	9.17	ppb	95
97)	n-butylbenzene	16.122	91	277045	9.20	ppb	81
98)	1,2-dibromo-3-chloropr...	16.555	75	20893	10.39	ppb #	60
99)	1,3,5-trichlorobenzene	17.357	180	168645	9.17	ug/L	93
100)	1,2,4-trichlorobenzene	17.895	180	166570	9.29	ppb	89
101)	hexachlorobutadiene	18.178	225	74125	9.21	ppb	100
102)	naphthalene	18.161	128	390284	9.02	ppb	100
103)	2-Methylnaphthalene	19.537	142	108733	4.58	ug/L	98
104)	1-Methylnaphthalene	19.778	142	91045	4.69	ug/L	96
105)	1,2,3-trichlorobenzene	18.367	180	153511	9.21	ppb	96

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

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140802\
Data File : U21514.D
Acq On : 3 Aug 2014 4:41 pm
Operator : amym
Sample : ic957-10
Misc : ms32403,msu957,,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 04 08:58:13 2014
Quant Method : D:\msdchem\1\methods\U140802W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Aug 04 08:33:30 2014
Response via : Initial Calibration



U140802W.m Mon Aug 04 09:11:16 2014

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7.6.5

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140802\
 Data File : U21515.D
 Acq On : 3 Aug 2014 5:08 pm
 Operator : amym
 Sample : ic957-25
 Misc : ms32403,msu957,,,,5,1
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 04 08:59:45 2014
 Quant Method : D:\msdchem\1\methods\U140802W.m
 Quant Title : SW-846 Method 8260
 QLast Update : Mon Aug 04 08:33:30 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.601	65	449153	50.00	ppb	0.00
4) pentafluorobenzene	8.975	168	701884	50.00	ppb	0.00
43) 1,4-difluorobenzene	9.842	114	1086361	50.00	ppb	0.00
66) chlorobenzene-d5	13.098	82	409816	50.00	ppb	# 0.00
80) 1,4-dichlorobenzene-d4	15.662	152	684691	50.00	ppb	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.613	113	185055	23.04	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	46.08%#		
60) toluene-d8 (s)	11.640	98	438982	24.72	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	49.44%#		
82) bromofluorobenzene (s)	14.328	95	182351	24.36	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	48.72%#		
Target Compounds						
						Qvalue
2) tertiary butyl alcohol	6.290	59	147501	197.66	ppb	93
3) Ethanol	5.600	45	260990m	2647.57	ppb	
5) dichlorodifluoromethane	4.335	85	253162	22.45	ppb	98
6) chloromethane	4.554	50	496342	25.73	ppb	99
7) vinyl chloride	4.805	62	313194	23.97	ppb	97
8) bromomethane	5.281	96	181934	25.24	ppb	100
9) chloroethane	5.418	64	118212	23.91	ppb	96
10) ethyl ether	6.290	59	147501	23.54	ppb	90
11) acetonitrile	6.104	41	34758m	44.61	ppb	
12) trichlorofluoromethane	6.064	101	342567	21.87	ppb	98
13) freon-113	6.831	101	179272	22.13	ppb	83
14) acrolein	6.051	56	47250	117.14	ppb	92
15) 1,1-dichloroethene	6.629	96	156173	23.83	ppb	99
16) acetone	6.208	58	49528	28.21	ppb	98
17) Methyl Acetate	6.827	43	166520	26.43	ppb	# 77
18) methylene chloride	6.777	84	179318	25.24	ppb	89
19) methyl tert butyl ether	7.562	73	420838	25.29	ppb	90
20) acrylonitrile	6.697	53	82466	26.56	ppb	98
21) allyl chloride	6.872	41	352571	24.51	ppb	91
22) trans-1,2-dichloroethene	7.468	96	184878	24.78	ppb	95
23) iodomethane	6.687	142	375931	24.68	ppb	93
24) carbon disulfide	7.052	76	474476	23.87	ppb	99
25) propionitrile	8.083	54	16825	23.33	ppb	100
26) vinyl acetate	7.824	43	297358	22.87	ppb	98
27) chloroprene	8.081	53	294132	23.09	ppb	92
28) di-isopropyl ether	8.123	45	705501	24.88	ppb	94
29) methacrylonitrile	8.241	41	99995	24.20	ppb	91
30) 2-butanone	8.136	72	21617	24.90	ppb	# 79
31) Ethyl Acetate	8.121	43	596780	24.57	ug/L	94
32) Hexane	8.107	41	280446	23.96	ppb	# 76
33) 1,1-dichloroethane	7.717	63	360549	24.21	ppb	98
34) tert-butyl ethyl ether	8.518	59	580668	25.76	ppb	96
35) isobutyl alcohol	8.542	43	117072	138.06	ppb	# 16
36) 2,2-dichloropropane	8.574	77	226097	24.81	ppb	94

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140802\
 Data File : U21515.D
 Acq On : 3 Aug 2014 5:08 pm
 Operator : amym
 Sample : ic957-25
 Misc : ms32403,msu957,,,,5,1
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 04 08:59:45 2014
 Quant Method : D:\msdchem\1\methods\U140802W.m
 Quant Title : SW-846 Method 8260
 QLast Update : Mon Aug 04 08:33:30 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) cis-1,2-dichloroethene	8.288	96	205075	24.87	ppb	99
38) bromochloromethane	8.453	128	114696	23.96	ppb #	81
39) chloroform	8.491	83	321165	23.86	ppb	98
41) Tetrahydrofuran	8.830	42	53696	24.69	ppb	92
42) 1,1,1-trichloroethane	9.241	97	304724	23.87	ppb	99
44) Cyclohexane	9.525	56	336612	23.72	ppb	87
45) carbon tetrachloride	9.604	117	288400	24.02	ppb	98
46) 1,1-dichloropropene	9.417	75	188179	22.99	ppb	89
47) benzene	9.640	78	540968	24.43	ppb	99
48) 1,2-dichloroethane	9.142	62	244228	24.06	ppb	99
49) tert-amyl methyl ether	9.764	73	405524	26.82	ppb	91
50) heptane	10.124	43	224633	24.67	ppb #	60
51) trichloroethene	10.261	95	165788	23.38	ppb	74
52) 1,2-dichloropropane	10.228	63	155966	24.53	ppb	99
53) dibromomethane	10.202	93	98940	24.86	ppb	92
54) bromodichloromethane	10.315	83	201434	23.95	ppb	92
55) Methylcyclohexane	10.778	83	237573	23.91	ppb	85
56) 2-chloroethyl vinyl ether	10.704	63	55388	31.23	ppb	95
57) methyl methacrylate	10.424	69	49753	26.58	ppb	85
58) 1,4-dioxane	10.454	88	6503m	159.47	ppb	
59) cis-1,3-dichloropropene	10.937	75	174286	25.70	ppb	84
61) 4-methyl-2-pentanone	11.052	43	163843	27.59	ppb	94
62) toluene	11.713	92	276573	24.83	ppb	96
63) trans-1,3-dichloropropene	11.359	75	125622	26.41	ppb	93
64) 1,1,2-trichloroethane	11.529	83	76182	25.74	ppb	92
65) ethyl methacrylate	11.747	69	109706	30.01	ppb #	52
67) tetrachloroethene	12.455	166	149461	23.63	ppb	96
68) 1,3-dichloropropane	11.765	76	137937	25.95	ppb	91
69) dibromochloromethane	12.055	129	161755	24.84	ppb	95
70) 1,2-dibromoethane	12.307	107	111741	26.01	ppb	94
71) 2-hexanone	11.941	43	140942	32.23	ppb	99
72) chlorobenzene	13.134	112	362090	25.03	ppb	84
73) 1,1,1,2-tetrachloroethane	13.052	131	212612	24.00	ppb	97
74) ethylbenzene	13.311	91	572357	24.76	ppb	89
75) m,p-xylene	13.495	106	482096	49.68	ppb	84
76) o-xylene	13.907	106	284078	24.98	ppb	88
77) styrene	13.835	104	362125	25.54	ppb	96
78) bromoform	13.661	173	114854	25.96	ppb	99
79) trans-1,4-dichloro-2-b...	14.065	53	36247	24.08	ppb #	66
81) isopropylbenzene	14.271	105	751364	22.92	ppb	99
83) bromobenzene	14.559	156	207436	24.82	ppb #	70
84) 1,1,2,2-tetrachloroethane	13.913	83	156842	25.11	ppb	98
85) 1,2,3-trichloropropane	14.063	75	150847	24.80	ppb	100
86) n-propylbenzene	14.716	91	794080	23.74	ppb	90
87) 2-chlorotoluene	14.833	91	513203	23.62	ppb	80
88) 4-chlorotoluene	14.911	91	506232	24.60	ppb	79
89) 1,3,5-trimethylbenzene	14.993	105	765713	23.54	ppb	96
90) tert-butylbenzene	15.297	91	397508	21.66	ppb	87
91) 1,2,4-trimethylbenzene	15.401	105	771036	23.80	ppb	97
92) sec-butylbenzene	15.521	105	951787	23.31	ppb	91

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140802\
Data File : U21515.D
Acq On : 3 Aug 2014 5:08 pm
Operator : amym
Sample : ic957-25
Misc : ms32403,msu957,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 04 08:59:45 2014
Quant Method : D:\msdchem\1\methods\U140802W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Aug 04 08:33:30 2014
Response via : Initial Calibration

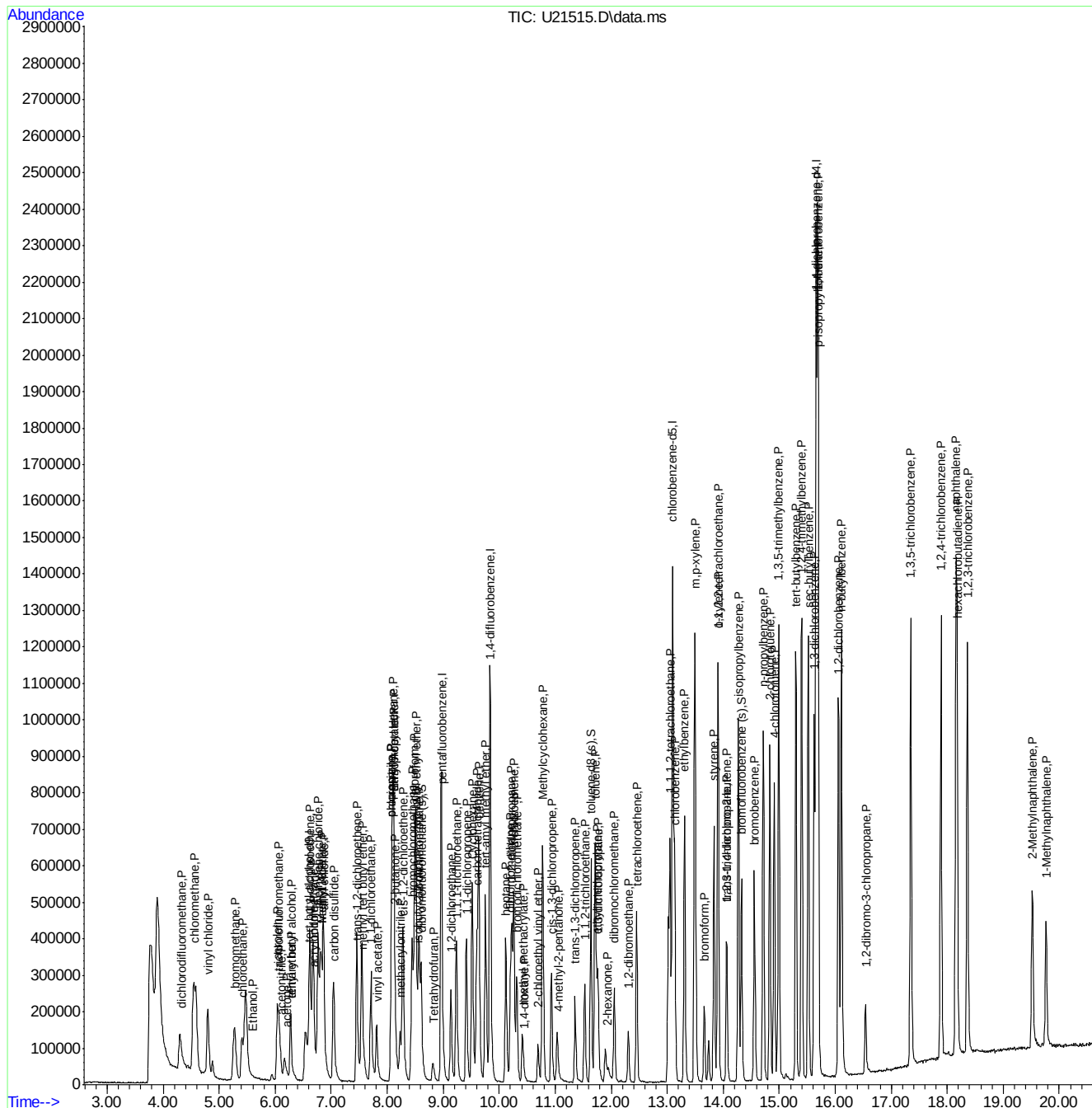
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93)	1,3-dichlorobenzene	15.623	146	472061	24.38	ppb	96
94)	p-isopropyltoluene	15.695	119	875744	23.72	ppb	93
95)	1,4-dichlorobenzene	15.691	146	466440	23.92	ppb	99
96)	1,2-dichlorobenzene	16.060	146	518949	24.08	ppb	97
97)	n-butylbenzene	16.115	91	769190	24.41	ppb	81
98)	1,2-dibromo-3-chloropr...	16.548	75	54156	25.74	ppb #	64
99)	1,3,5-trichlorobenzene	17.352	180	455084	23.65	ug/L	97
100)	1,2,4-trichlorobenzene	17.891	180	448376	23.89	ppb	97
101)	hexachlorobutadiene	18.181	225	204316	24.24	ppb	96
102)	naphthalene	18.157	128	1072140	23.68	ppb	100
103)	2-Methylnaphthalene	19.527	142	296372	11.93	ug/L	98
104)	1-Methylnaphthalene	19.769	142	241492	11.88	ug/L	99
105)	1,2,3-trichlorobenzene	18.364	180	416347	23.87	ppb	94

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

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140802\
Data File : U21515.D
Acq On : 3 Aug 2014 5:08 pm
Operator : amym
Sample : ic957-25
Misc : ms32403,msu957,,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 04 08:59:45 2014
Quant Method : D:\msdchem\1\methods\U140802W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Aug 04 08:33:30 2014
Response via : Initial Calibration



U140802W.m Mon Aug 04 09:11:21 2014

Page: 4

7.6.6

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140802\
 Data File : U21516.D
 Acq On : 3 Aug 2014 5:35 pm
 Operator : amym
 Sample : icc957-50
 Misc : ms32403,msu957,,,,5,1
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 04 09:00:50 2014
 Quant Method : D:\msdchem\1\methods\U140802W.m
 Quant Title : SW-846 Method 8260
 QLast Update : Mon Aug 04 08:33:30 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.601	65	400572	50.00	ppb	0.00
4) pentafluorobenzene	8.974	168	747071	50.00	ppb	0.00
43) 1,4-difluorobenzene	9.842	114	1197352	50.00	ppb	0.00
66) chlorobenzene-d5	13.096	82	431925	50.00	ppb	# 0.00
80) 1,4-dichlorobenzene-d4	15.661	152	689466	50.00	ppb	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.613	113	427512	50.00	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	100.00%		
60) toluene-d8 (s)	11.639	98	978793	50.00	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	100.00%		
82) bromofluorobenzene (s)	14.326	95	376885	50.00	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	100.00%		
Target Compounds						
						Qvalue
2) tertiary butyl alcohol	6.290	59	332762	500.00	ppb	93
3) Ethanol	5.586	45	439056m	4994.11	ppb	
5) dichlorodifluoromethane	4.341	85	600166	50.00	ppb	96
6) chloromethane	4.553	50	1026425	50.00	ppb	100
7) vinyl chloride	4.811	62	695266	50.00	ppb	98
8) bromomethane	5.283	96	383623	50.00	ppb	92
9) chloroethane	5.424	64	263065	50.00	ppb	99
10) ethyl ether	6.290	59	333471	50.00	ppb	92
11) acetonitrile	6.070	41	40629m	48.99	ppb	
12) trichlorofluoromethane	6.066	101	833515	50.00	ppb	97
13) freon-113	6.835	101	431207	50.00	ppb	87
14) acrolein	6.055	56	107335	250.00	ppb	92
15) 1,1-dichloroethene	6.632	96	348801	50.00	ppb	92
16) acetone	6.219	58	93433	50.00	ppb	87
17) Methyl Acetate	6.818	43	335269	50.00	ppb	# 88
18) methylene chloride	6.780	84	378057	50.00	ppb	85
19) methyl tert butyl ether	7.563	73	885446	50.00	ppb	88
20) acrylonitrile	6.695	53	165222	50.00	ppb	95
21) allyl chloride	6.874	41	765610	50.00	ppb	93
22) trans-1,2-dichloroethene	7.467	96	397116	50.00	ppb	95
23) iodomethane	6.689	142	810486	50.00	ppb	91
24) carbon disulfide	7.054	76	1057746	50.00	ppb	98
25) propionitrile	8.084	54	38377	50.00	ppb	100
26) vinyl acetate	7.820	43	691865	50.00	ppb	99
27) chloroprene	8.083	53	677875	50.00	ppb	93
28) di-isopropyl ether	8.122	45	1509234	50.00	ppb	95
29) methacrylonitrile	8.238	41	219892	50.00	ppb	94
30) 2-butanone	8.132	72	46210	50.00	ppb	# 55
31) Ethyl Acetate	8.118	43	1292431	50.00	ug/L	97
32) Hexane	8.105	41	622956	50.00	ppb	# 80
33) 1,1-dichloroethane	7.718	63	792412	50.00	ppb	97
34) tert-butyl ethyl ether	8.518	59	1199840	50.00	ppb	98
35) isobutyl alcohol	8.535	43	225645	250.00	ppb	# 74
36) 2,2-dichloropropane	8.575	77	484904	50.00	ppb	92

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140802\
 Data File : U21516.D
 Acq On : 3 Aug 2014 5:35 pm
 Operator : amym
 Sample : icc957-50
 Misc : ms32403,msu957,,,,5,1
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 04 09:00:50 2014
 Quant Method : D:\msdchem\1\methods\U140802W.m
 Quant Title : SW-846 Method 8260
 QLast Update : Mon Aug 04 08:33:30 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) cis-1,2-dichloroethene	8.288	96	438906	50.00	ppb	95
38) bromochloromethane	8.454	128	254725	50.00	ppb #	79
39) chloroform	8.492	83	716409	50.00	ppb	99
41) Tetrahydrofuran	8.835	42	115756	50.00	ppb	92
42) 1,1,1-trichloroethane	9.240	97	679305	50.00	ppb	98
44) Cyclohexane	9.525	56	782135	50.00	ppb	88
45) carbon tetrachloride	9.605	117	661650	50.00	ppb	97
46) 1,1-dichloropropene	9.416	75	451104	50.00	ppb	89
47) benzene	9.640	78	1220174	50.00	ppb	96
48) 1,2-dichloroethane	9.141	62	559372	50.00	ppb	98
49) tert-amyl methyl ether	9.763	73	833132	50.00	ppb	88
50) heptane	10.120	43	501717	50.00	ppb #	61
51) trichloroethene	10.260	95	390693	50.00	ppb #	69
52) 1,2-dichloropropane	10.228	63	350407	50.00	ppb	100
53) dibromomethane	10.202	93	219353	50.00	ppb	92
54) bromodichloromethane	10.315	83	463533	50.00	ppb	96
55) Methylcyclohexane	10.778	83	547512	50.00	ppb	85
56) 2-chloroethyl vinyl ether	10.694	63	97747	50.00	ppb	95
57) methyl methacrylate	10.419	69	103150	50.00	ppb	87
58) 1,4-dioxane	10.453	88	11236	250.00	ppb	87
59) cis-1,3-dichloropropene	10.935	75	373780	50.00	ppb	84
61) 4-methyl-2-pentanone	11.042	43	327282	50.00	ppb	96
62) toluene	11.711	92	613894	50.00	ppb	97
63) trans-1,3-dichloropropene	11.357	75	262096	50.00	ppb	93
64) 1,1,2-trichloroethane	11.528	83	163074	50.00	ppb	95
65) ethyl methacrylate	11.741	69	201462	50.00	ppb #	67
67) tetrachloroethene	12.453	166	333281	50.00	ppb	93
68) 1,3-dichloropropane	11.763	76	280110	50.00	ppb	93
69) dibromochloromethane	12.053	129	343163	50.00	ppb	98
70) 1,2-dibromoethane	12.306	107	226433	50.00	ppb	96
71) 2-hexanone	11.910	43	230478	50.00	ppb	97
72) chlorobenzene	13.134	112	762437	50.00	ppb	88
73) 1,1,1,2-tetrachloroethane	13.052	131	466829	50.00	ppb	95
74) ethylbenzene	13.309	91	1218152	50.00	ppb	92
75) m,p-xylene	13.493	106	1022787	100.00	ppb	85
76) o-xylene	13.906	106	599267	50.00	ppb	90
77) styrene	13.833	104	747297	50.00	ppb	100
78) bromoform	13.660	173	233165	50.00	ppb	99
79) trans-1,4-dichloro-2-b...	14.061	53	79317	50.00	ppb #	69
81) isopropylbenzene	14.269	105	1650690	50.00	ppb	100
83) bromobenzene	14.558	156	420744	50.00	ppb #	75
84) 1,1,2,2-tetrachloroethane	13.911	83	314452	50.00	ppb	96
85) 1,2,3-trichloropropane	14.061	75	306293	50.00	ppb	98
86) n-propylbenzene	14.715	91	1684171	50.00	ppb	91
87) 2-chlorotoluene	14.832	91	1092445	49.94	ppb	82
88) 4-chlorotoluene	14.909	91	1036163	50.00	ppb	80
89) 1,3,5-trimethylbenzene	14.992	105	1637996	50.00	ppb	95
90) tert-butylbenzene	15.297	91	924084	50.00	ppb	88
91) 1,2,4-trimethylbenzene	15.401	105	1631442	50.00	ppb	97
92) sec-butylbenzene	15.520	105	2055629	50.00	ppb	92

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140802\
Data File : U21516.D
Acq On : 3 Aug 2014 5:35 pm
Operator : amym
Sample : icc957-50
Misc : ms32403,msu957,,,,5,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 04 09:00:50 2014
Quant Method : D:\msdchem\1\methods\U140802W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Aug 04 08:33:30 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,3-dichlorobenzene	15.623	146	974841	50.00	ppb	98
94) p-isopropyltoluene	15.693	119	1858994	50.00	ppb	95
95) 1,4-dichlorobenzene	15.690	146	981982	50.00	ppb	98
96) 1,2-dichlorobenzene	16.059	146	1085061	50.00	ppb	97
97) n-butylbenzene	16.112	91	1586272	50.00	ppb	84
98) 1,2-dibromo-3-chloropr...	16.541	75	105950	50.00	ppb	80
99) 1,3,5-trichlorobenzene	17.351	180	968649	50.00	ug/L	95
100) 1,2,4-trichlorobenzene	17.890	180	944972	50.00	ppb	95
101) hexachlorobutadiene	18.178	225	424329	50.00	ppb	92
102) naphthalene	18.156	128	2279643	50.00	ppb	100
103) 2-Methylnaphthalene	19.523	142	625471	25.00	ug/L	98
104) 1-Methylnaphthalene	19.770	142	511657	25.00	ug/L	97
105) 1,2,3-trichlorobenzene	18.362	180	878219	50.00	ppb	93

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

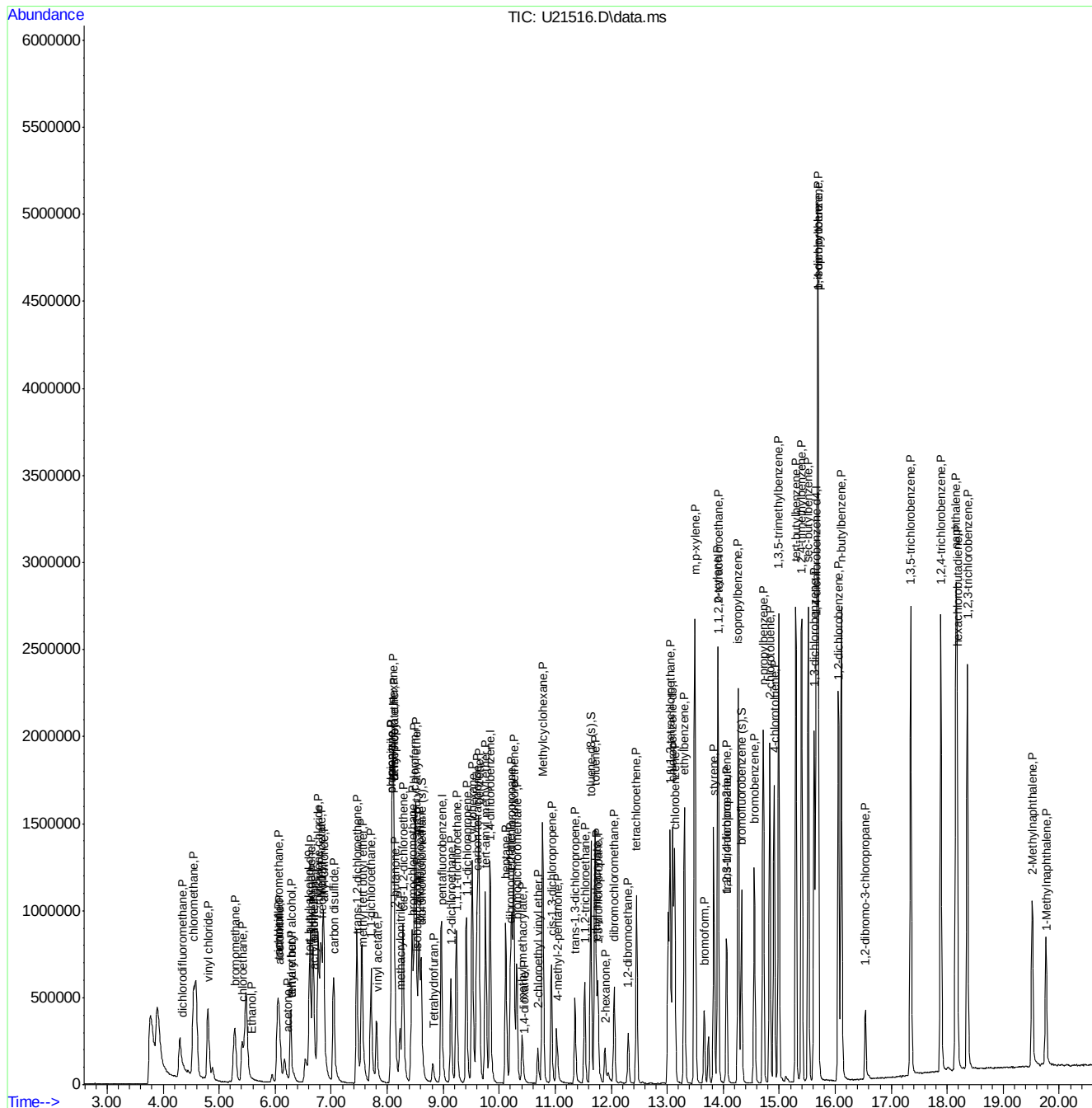
7.6.7

7

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140802\
Data File : U21516.D
Acq On : 3 Aug 2014 5:35 pm
Operator : amym
Sample : icc957-50
Misc : ms32403,msu957,,,,,5,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 04 09:00:50 2014
Quant Method : D:\msdchem\1\methods\U140802W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Aug 04 08:33:30 2014
Response via : Initial Calibration



U140802W.m Mon Aug 04 09:11:26 2014

Page: 4

7.6.7

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140802\
 Data File : U21517.D
 Acq On : 3 Aug 2014 6:02 pm
 Operator : amym
 Sample : ic957-100
 Misc : ms32403,msu957,,,,5,1
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 04 09:34:09 2014
 Quant Method : D:\msdchem\1\methods\U140802W.m
 Quant Title : SW-846 Method 8260
 QLast Update : Mon Aug 04 08:33:30 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.609	65	397785	50.00	ppb	0.00
4) pentafluorobenzene	8.974	168	807532	50.00	ppb	0.00
43) 1,4-difluorobenzene	9.842	114	1330278	50.00	ppb	0.00
66) chlorobenzene-d5	13.097	82	484299	50.00	ppb	# 0.00
80) 1,4-dichlorobenzene-d4	15.661	152	699393	50.00	ppb	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.614	113	881450	95.37	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	190.74%#		
60) toluene-d8 (s)	11.637	98	2302796	105.88	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	211.76%#		
82) bromofluorobenzene (s)	14.325	95	808789	105.78	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	211.56%#		
Target Compounds						
						Qvalue
2) tertiary butyl alcohol	6.288	59	675107	1021.51	ppb	91
3) Ethanol	5.593	45	865432m	9912.96	ppb	
5) dichlorodifluoromethane	4.351	85	1238093	95.42	ppb	94
6) chloromethane	4.559	50	2090109	94.19	ppb	100
7) vinyl chloride	4.822	62	1414681	94.12	ppb	96
8) bromomethane	5.290	96	802751	96.79	ppb	95
9) chloroethane	5.425	64	550848	96.86	ppb	98
10) ethyl ether	6.288	59	674483	93.56	ppb	87
11) acetonitrile	6.063	41	86557m	96.56	ppb	
12) trichlorofluoromethane	6.068	101	1755792	97.44	ppb	98
13) freon-113	6.837	101	922503	98.96	ppb	85
14) acrolein	6.064	56	216382	466.25	ppb	93
15) 1,1-dichloroethene	6.632	96	712033	94.43	ppb	99
16) acetone	6.221	58	173691	85.99	ppb	98
17) Methyl Acetate	6.816	43	666954	92.02	ppb	# 85
18) methylene chloride	6.781	84	768502	94.03	ppb	# 81
19) methyl tert butyl ether	7.565	73	1809168	94.51	ppb	91
20) acrylonitrile	6.696	53	319836	89.54	ppb	95
21) allyl chloride	6.876	41	1569050	94.80	ppb	92
22) trans-1,2-dichloroethene	7.466	96	804844	93.75	ppb	93
23) iodomethane	6.691	142	1641084	93.66	ppb	92
24) carbon disulfide	7.054	76	2189217	95.74	ppb	96
25) propionitrile	8.084	54	78505	94.62	ppb	100
26) vinyl acetate	7.817	43	1532751	102.48	ppb	98
27) chloroprene	8.082	53	1438499	98.16	ppb	91
28) di-isopropyl ether	8.122	45	3105754	95.19	ppb	94
29) methacrylonitrile	8.236	41	467185	98.28	ppb	94
30) 2-butanone	8.130	72	91041	91.13	ppb	# 1
31) Ethyl Acetate	8.117	43	2676702	95.80	ug/L	98
32) Hexane	8.105	41	1322897	98.23	ppb	# 81
33) 1,1-dichloroethane	7.719	63	1629519	95.12	ppb	99
34) tert-butyl ethyl ether	8.519	59	2524973	97.34	ppb	97
35) isobutyl alcohol	8.534	43	457397	468.82	ppb	95
36) 2,2-dichloropropane	8.577	77	1001357	95.52	ppb	90

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140802\
 Data File : U21517.D
 Acq On : 3 Aug 2014 6:02 pm
 Operator : amym
 Sample : ic957-100
 Misc : ms32403,msu957,,,,5,1
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 04 09:34:09 2014
 Quant Method : D:\msdchem\1\methods\U140802W.m
 Quant Title : SW-846 Method 8260
 QLast Update : Mon Aug 04 08:33:30 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) cis-1,2-dichloroethene	8.288	96	897863	94.63	ppb	94
38) bromochloromethane	8.454	128	515306	93.58	ppb #	80
39) chloroform	8.492	83	1469900	94.91	ppb	98
41) Tetrahydrofuran	8.835	42	237901	95.07	ppb	90
42) 1,1,1-trichloroethane	9.243	97	1443760	98.31	ppb	99
44) Cyclohexane	9.526	56	1643857	94.59	ppb	90
45) carbon tetrachloride	9.605	117	1411619	96.01	ppb	98
46) 1,1-dichloropropene	9.416	75	982898	98.06	ppb	91
47) benzene	9.639	78	2633996	97.15	ppb	96
48) 1,2-dichloroethane	9.141	62	1215692	97.81	ppb	97
49) tert-amyl methyl ether	9.763	73	1733164	93.62	ppb	88
50) heptane	10.118	43	1131330m	101.48	ppb	
51) trichloroethene	10.261	95	852573	98.21	ppb	70
52) 1,2-dichloropropane	10.227	63	787222	101.11	ppb	99
53) dibromomethane	10.201	93	480507	98.58	ppb	95
54) bromodichloromethane	10.314	83	1041478	101.12	ppb	96
55) Methylcyclohexane	10.778	83	1173005	96.42	ppb	87
56) 2-chloroethyl vinyl ether	10.696	63	270217	124.41	ppb	95
57) methyl methacrylate	10.414	69	244750	106.78	ppb	84
58) 1,4-dioxane	10.454	88	21535m	431.27	ppb	
59) cis-1,3-dichloropropene	10.934	75	917469	110.47	ppb	87
61) 4-methyl-2-pentanone	11.036	43	680571	93.58	ppb	97
62) toluene	11.710	92	1445241	105.95	ppb	99
63) trans-1,3-dichloropropene	11.355	75	650552	111.70	ppb	96
64) 1,1,2-trichloroethane	11.528	83	380589	105.03	ppb	94
65) ethyl methacrylate	11.736	69	457161	102.12	ppb #	64
67) tetrachloroethene	12.453	166	785622	105.12	ppb	93
68) 1,3-dichloropropane	11.762	76	651876	103.78	ppb	92
69) dibromochloromethane	12.053	129	795210	103.33	ppb	98
70) 1,2-dibromoethane	12.305	107	527602	103.90	ppb	99
71) 2-hexanone	11.898	43	472854	91.49	ppb	96
72) chlorobenzene	13.132	112	1794849	104.98	ppb	87
73) 1,1,1,2-tetrachloroethane	13.052	131	1005062	96.01	ppb	95
74) ethylbenzene	13.308	91	2734043	100.08	ppb	92
75) m,p-xylene	13.492	106	2323453	202.60	ppb	87
76) o-xylene	13.905	106	1323922	98.52	ppb	88
77) styrene	13.832	104	1665795	99.40	ppb	98
78) bromoform	13.660	173	498067	95.26	ppb	99
79) trans-1,4-dichloro-2-b...	14.059	53	172742	97.12	ppb	92
81) isopropylbenzene	14.269	105	3621783	108.15	ppb	96
83) bromobenzene	14.556	156	902359	105.71	ppb #	74
84) 1,1,2,2-tetrachloroethane	13.911	83	649934	101.88	ppb	99
85) 1,2,3-trichloropropane	14.059	75	626336	100.79	ppb	98
86) n-propylbenzene	14.714	91	3591671	105.12	ppb	89
87) 2-chlorotoluene	14.832	91	2340725	105.48	ppb	82
88) 4-chlorotoluene	14.908	91	2199126	104.61	ppb	85
89) 1,3,5-trimethylbenzene	14.991	105	3601876	108.39	ppb	94
90) tert-butylbenzene	15.297	91	2141108	114.21	ppb	89
91) 1,2,4-trimethylbenzene	15.401	105	3509411	106.03	ppb	98
92) sec-butylbenzene	15.520	105	4559345	109.32	ppb	91

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140802\
Data File : U21517.D
Acq On : 3 Aug 2014 6:02 pm
Operator : amym
Sample : ic957-100
Misc : ms32403,msu957,,,,5,1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 04 09:34:09 2014
Quant Method : D:\msdchem\1\methods\U140802W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Aug 04 08:33:30 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,3-dichlorobenzene	15.623	146	1988672	100.55	ppb	97
94) p-isopropyltoluene	15.692	119	4069623	107.90	ppb	95
95) 1,4-dichlorobenzene	15.690	146	1980101	99.39	ppb	100
96) 1,2-dichlorobenzene	16.058	146	2201201	99.99	ppb	97
97) n-butylbenzene	16.111	91	3327088	103.38	ppb	84
98) 1,2-dibromo-3-chloropr...	16.539	75	206685	96.15	ppb	76
99) 1,3,5-trichlorobenzene	17.350	180	1949287	99.19	ug/L	95
100) 1,2,4-trichlorobenzene	17.889	180	1922310	100.27	ppb	93
101) hexachlorobutadiene	18.179	225	900963	104.66	ppb	95
102) naphthalene	18.154	128	4529172	97.93	ppb	100
103) 2-Methylnaphthalene	19.520	142	1264057	49.81	ug/L	99
104) 1-Methylnaphthalene	19.768	142	1030676	49.64	ug/L	99
105) 1,2,3-trichlorobenzene	18.361	180	1770095	99.35	ppb	95

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

(QT Reviewed)

Quant Time: Aug 04 09:34:09 2014
Quant Method : D:\msdchem\1\methods\U140802W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Aug 04 08:33:30 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140802\
 Data File : U21518.D
 Acq On : 3 Aug 2014 6:29 pm
 Operator : amym
 Sample : ic957-200
 Misc : ms32403,msu957,,,,5,1
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 04 09:02:52 2014
 Quant Method : D:\msdchem\1\methods\U140802W.m
 Quant Title : SW-846 Method 8260
 QLast Update : Mon Aug 04 08:33:30 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.619	65	488201	50.00	ppb	0.02
4) pentafluorobenzene	8.972	168	854776	50.00	ppb	0.00
43) 1,4-difluorobenzene	9.840	114	1396570	50.00	ppb	0.00
66) chlorobenzene-d5	13.097	82	575060	50.00	ppb	# 0.00
80) 1,4-dichlorobenzene-d4	15.661	152	789449	50.00	ppb	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.612	113	1836878	187.76	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	375.52%#		
60) toluene-d8 (s)	11.637	98	5266210	230.64	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	461.28%#		
82) bromofluorobenzene (s)	14.325	95	2073865	240.29	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	480.58%#		
Target Compounds						
						Qvalue
2) tertiary butyl alcohol	6.285	59	1421868	1752.98	ppb	91
3) Ethanol	5.613	45	2082542m	19436.30	ppb	
5) dichlorodifluoromethane	4.346	85	2552299	185.84	ppb	96
6) chloromethane	4.560	50	3951824	168.24	ppb	99
7) vinyl chloride	4.825	62	2871490	180.48	ppb	95
8) bromomethane	5.291	96	1625720	185.19	ppb	91
9) chloroethane	5.426	64	1150928	191.19	ppb	98
10) ethyl ether	6.285	59	1418620	185.90	ppb	88
11) acetonitrile	6.063	41	195489m	206.02	ppb	
12) trichlorofluoromethane	6.067	101	3682708	193.08	ppb	97
13) freon-113	6.838	101	1908298	193.39	ppb	87
14) acrolein	6.067	56	556149	1132.14	ppb	92
15) 1,1-dichloroethene	6.630	96	1504433	188.48	ppb	98
16) acetone	6.216	58	375339	175.55	ppb	91
17) Methyl Acetate	6.822	43	1519961	198.12	ppb	# 77
18) methylene chloride	6.779	84	1620564	187.32	ppb	87
19) methyl tert butyl ether	7.563	73	3997769	197.30	ppb	90
20) acrylonitrile	6.700	53	757770	200.42	ppb	97
21) allyl chloride	6.872	41	3271088	186.71	ppb	96
22) trans-1,2-dichloroethene	7.464	96	1690293	186.00	ppb	97
23) iodomethane	6.689	142	3473598	187.29	ppb	92
24) carbon disulfide	7.051	76	4600464	190.06	ppb	98
25) propionitrile	8.081	54	160131	182.34	ppb	100
26) vinyl acetate	7.814	43	3319471	209.67	ppb	99
27) chloroprene	8.080	53	3010002	194.04	ppb	91
28) di-isopropyl ether	8.120	45	6493370	188.02	ppb	96
29) methacrylonitrile	8.235	41	1001340	199.00	ppb	93
30) 2-butanone	8.130	72	206202	195.00	ppb	# 2
31) Ethyl Acetate	8.116	43	5689538	192.38	ug/L	99
32) Hexane	8.103	41	2820897	197.88	ppb	97
33) 1,1-dichloroethane	7.717	63	3440872	189.76	ppb	99
34) tert-butyl ethyl ether	8.517	59	5552183	202.22	ppb	97
35) isobutyl alcohol	8.536	43	1057106	1023.63	ppb	79
36) 2,2-dichloropropane	8.576	77	2132652	192.20	ppb	92

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140802\
 Data File : U21518.D
 Acq On : 3 Aug 2014 6:29 pm
 Operator : amym
 Sample : ic957-200
 Misc : ms32403,msu957,,,,5,1
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 04 09:02:52 2014
 Quant Method : D:\msdchem\1\methods\U140802W.m
 Quant Title : SW-846 Method 8260
 QLast Update : Mon Aug 04 08:33:30 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) cis-1,2-dichloroethene	8.286	96	1873016	186.49	ppb	96
38) bromochloromethane	8.454	128	1077309	184.82	ppb #	76
39) chloroform	8.491	83	3081091	187.94	ppb	96
41) Tetrahydrofuran	8.830	42	518905	195.90	ppb	99
42) 1,1,1-trichloroethane	9.242	97	3044605	195.86	ppb	99
44) Cyclohexane	9.526	56	3471140	190.25	ppb	91
45) carbon tetrachloride	9.604	117	2979121	193.01	ppb	99
46) 1,1-dichloropropene	9.414	75	2073913	197.08	ppb	92
47) benzene	9.638	78	5573130	195.80	ppb	96
48) 1,2-dichloroethane	9.140	62	2514533	192.70	ppb	98
49) tert-amyl methyl ether	9.761	73	3868033	199.02	ppb	92
50) heptane	10.118	43	2462632	210.41	ppb #	57
51) trichloroethene	10.259	95	1775864	194.85	ppb	74
52) 1,2-dichloropropane	10.226	63	1707776	208.92	ppb	99
53) dibromomethane	10.200	93	992455	193.95	ppb	91
54) bromodichloromethane	10.314	83	2218538	205.17	ppb	97
55) Methylcyclohexane	10.777	83	2481824	194.32	ppb	89
56) 2-chloroethyl vinyl ether	10.692	63	742644	325.69	ppb	95
57) methyl methacrylate	10.410	69	630386	261.98	ppb	80
58) 1,4-dioxane	10.452	88	55220	1053.38	ppb	81
59) cis-1,3-dichloropropene	10.932	75	2095394	240.31	ppb	90
61) 4-methyl-2-pentanone	11.028	43	1599173	209.46	ppb	98
62) toluene	11.709	92	3315510	231.52	ppb	100
63) trans-1,3-dichloropropene	11.353	75	1651170	270.06	ppb	96
64) 1,1,2-trichloroethane	11.526	83	921917	242.35	ppb	93
65) ethyl methacrylate	11.728	69	1166634	248.24	ppb	90
67) tetrachloroethene	12.452	166	1786622	201.32	ppb	94
68) 1,3-dichloropropane	11.761	76	1657903	222.28	ppb	92
69) dibromochloromethane	12.052	129	1887026	206.51	ppb	97
70) 1,2-dibromoethane	12.304	107	1315489	218.18	ppb	100
71) 2-hexanone	11.886	43	1269702	206.89	ppb	95
72) chlorobenzene	13.132	112	4340029	213.77	ppb	88
73) 1,1,1,2-tetrachloroethane	13.052	131	2236617	179.93	ppb	96
74) ethylbenzene	13.307	91	6570027	202.55	ppb	92
75) m,p-xylene	13.492	106	5526478	405.84	ppb	85
76) o-xylene	13.905	106	3031399	189.97	ppb	89
77) styrene	13.832	104	4220504	212.10	ppb	97
78) bromoform	13.659	173	1247681	200.96	ppb	99
79) trans-1,4-dichloro-2-b...	14.057	53	456838	216.30	ppb	92
81) isopropylbenzene	14.268	105	8070445	213.50	ppb	96
83) bromobenzene	14.556	156	2226576	231.09	ppb #	75
84) 1,1,2,2-tetrachloroethane	13.911	83	1577708	219.09	ppb	98
85) 1,2,3-trichloropropane	14.058	75	1568500	223.62	ppb	100
86) n-propylbenzene	14.714	91	8396012	217.69	ppb	88
87) 2-chlorotoluene	14.832	91	5484503	218.95	ppb	82
88) 4-chlorotoluene	14.907	91	5460163	230.11	ppb	83
89) 1,3,5-trimethylbenzene	14.991	105	8052479	214.67	ppb	94
90) tert-butylbenzene	15.297	91	4695002	221.86	ppb	91
91) 1,2,4-trimethylbenzene	15.401	105	7895539	211.33	ppb	97
92) sec-butylbenzene	15.521	105	9949139	211.35	ppb	90

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140802\
 Data File : U21518.D
 Acq On : 3 Aug 2014 6:29 pm
 Operator : amym
 Sample : ic957-200
 Misc : ms32403,msu957,,,,5,1
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 04 09:02:52 2014
 Quant Method : D:\msdchem\1\methods\U140802W.m
 Quant Title : SW-846 Method 8260
 QLast Update : Mon Aug 04 08:33:30 2014
 Response via : Initial Calibration

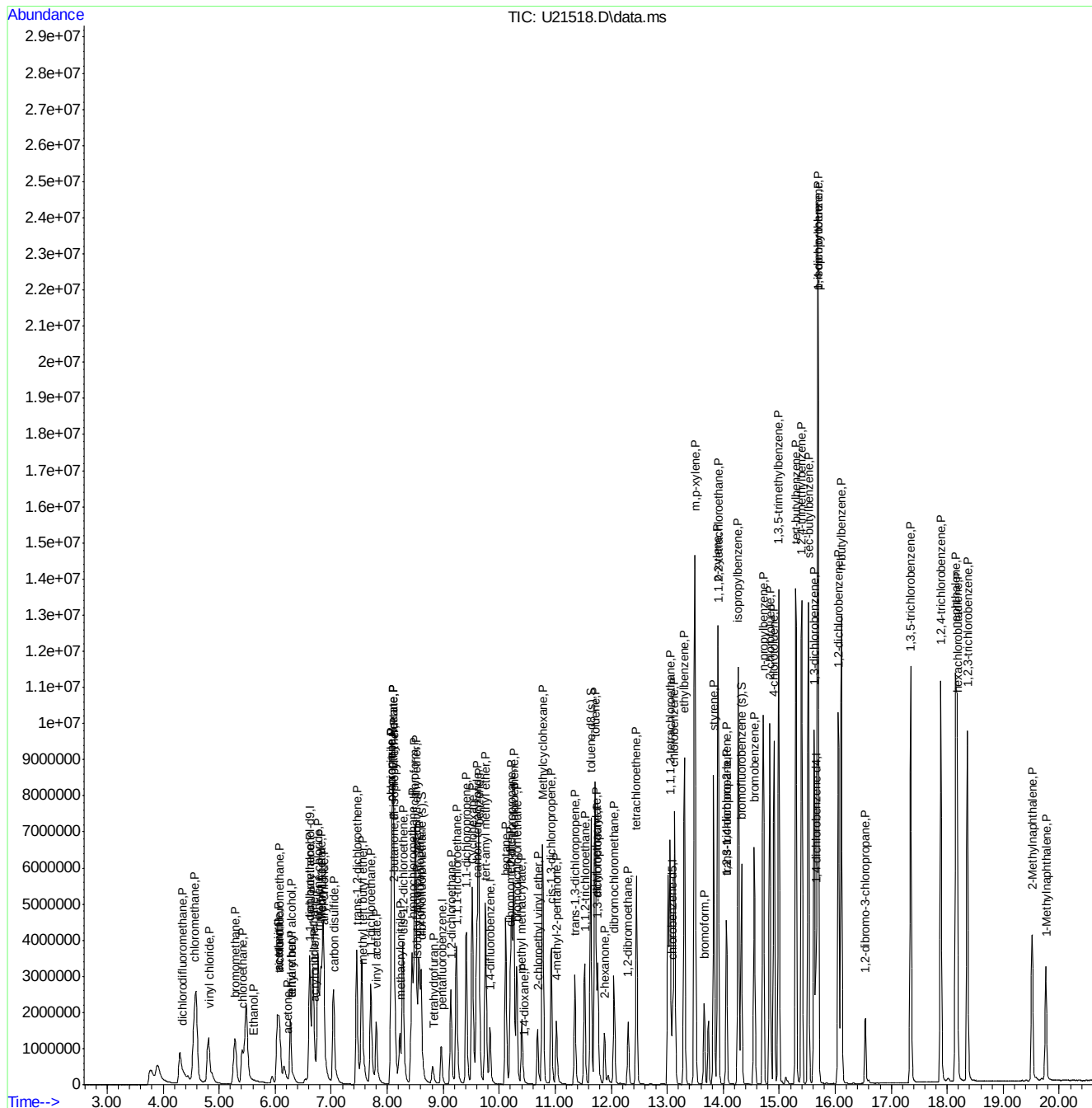
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,3-dichlorobenzene	15.623	146	4614120	206.69	ppb	99
94) p-isopropyltoluene	15.692	119	8915017	209.41	ppb	95
95) 1,4-dichlorobenzene	15.690	146	4528469	201.38	ppb	98
96) 1,2-dichlorobenzene	16.058	146	4825410	194.20	ppb	97
97) n-butylbenzene	16.110	91	7322720	201.58	ppb	83
98) 1,2-dibromo-3-chloropr...	16.537	75	458799	189.10	ppb #	72
99) 1,3,5-trichlorobenzene	17.350	180	3984215	179.61	ug/L	95
100) 1,2,4-trichlorobenzene	17.889	180	3907514	180.57	ppb	94
101) hexachlorobutadiene	18.178	225	1870074	192.45	ppb	94
102) naphthalene	18.154	128	9147173	175.22	ppb	100
103) 2-Methylnaphthalene	19.518	142	2613927	91.25	ug/L	98
104) 1-Methylnaphthalene	19.766	142	2077294	88.64	ug/L	98
105) 1,2,3-trichlorobenzene	18.361	180	3570056	177.51	ppb	94

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

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140802\
Data File : U21518.D
Acq On : 3 Aug 2014 6:29 pm
Operator : amym
Sample : ic957-200
Misc : ms32403,msu957,,,,5,1
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 04 09:02:52 2014
Quant Method : D:\msdchem\1\methods\U140802W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Aug 04 08:33:30 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140802\
 Data File : U21519.D
 Acq On : 3 Aug 2014 6:56 pm
 Operator : amym
 Sample : ic957-400
 Misc : ms32403,msu957,,,,5,1
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 04 09:03:51 2014
 Quant Method : D:\msdchem\1\methods\U140802W.m
 Quant Title : SW-846 Method 8260
 QLast Update : Mon Aug 04 08:33:30 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.592	65	473534	50.00	ppb	0.00
4) pentafluorobenzene	8.972	168	909493	50.00	ppb	0.00
43) 1,4-difluorobenzene	9.840	114	1540311	50.00	ppb	0.00
66) chlorobenzene-d5	13.098	82	682528	50.00	ppb	# 0.00
80) 1,4-dichlorobenzene-d4	15.664	152	890266	50.00	ppb	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.613	113	3782685	363.40	ppb	0.00
Spiked Amount 50.000	Range 70	- 130	Recovery	=	726.80%#	
60) toluene-d8 (s)	11.638	98	11415401	453.30	ppb	0.00
Spiked Amount 50.000	Range 70	- 130	Recovery	=	906.60%#	
82) bromofluorobenzene (s)	14.326	95	4921049	505.61	ppb	0.00
Spiked Amount 50.000	Range 70	- 130	Recovery	=	1011.22%#	
Target Compounds						
						Qvalue
2) tertiary butyl alcohol	6.284	59	3002410	3816.24	ppb	93
3) Ethanol	5.613	45	4193131m	40346.50	ppb	
5) dichlorodifluoromethane	4.350	85	5206882	356.32	ppb	95
6) chloromethane	4.568	50	6807872	272.39	ppb	94
7) vinyl chloride	4.828	62	5454723	322.22	ppb	97
8) bromomethane	5.288	96	3225808	345.36	ppb	93
9) chloroethane	5.422	64	2302011	359.40	ppb	98
10) ethyl ether	6.285	59	3003113	369.87	ppb	90
11) acetonitrile	6.063	41	414311m	410.36	ppb	
12) trichlorofluoromethane	6.067	101	7558153	372.42	ppb	98
13) freon-113	6.837	101	4156057	395.85	ppb	85
14) acrolein	6.057	56	1312957	2511.95	ppb	92
15) 1,1-dichloroethene	6.630	96	3173358	373.66	ppb	97
16) acetone	6.209	58	783589	344.45	ppb	89
17) Methyl Acetate	6.817	43	3232160	395.94	ppb	# 81
18) methylene chloride	6.780	84	3363403	365.39	ppb	91
19) methyl tert butyl ether	7.563	73	8412827	390.22	ppb	91
20) acrylonitrile	6.694	53	1617767	402.14	ppb	97
21) allyl chloride	6.871	41	6613489	354.78	ppb	98
22) trans-1,2-dichloroethene	7.465	96	3572693	369.50	ppb	95
23) iodomethane	6.688	142	7199998	364.85	ppb	92
24) carbon disulfide	7.051	76	9672703	375.58	ppb	96
25) propionitrile	8.082	54	344021	368.17	ppb	100
26) vinyl acetate	7.812	43	7198368	427.31	ppb	99
27) chloroprene	8.080	53	6295867	381.45	ppb	91
28) di-isopropyl ether	8.122	45	12885850	350.66	ppb	94
29) methacrylonitrile	8.235	41	2283014	426.41	ppb	95
30) 2-butanone	8.130	72	469395	417.19	ppb	# 21
31) Ethyl Acetate	8.117	43	11632304	369.65	ug/L	98
32) Hexane	8.103	41	5822269	383.86	ppb	98
33) 1,1-dichloroethane	7.717	63	7112303	368.63	ppb	99
34) tert-butyl ethyl ether	8.519	59	11393151	389.99	ppb	97
35) isobutyl alcohol	8.538	43	2161466	1967.09	ppb	87
36) 2,2-dichloropropane	8.577	77	4360334	369.31	ppb	92

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140802\
 Data File : U21519.D
 Acq On : 3 Aug 2014 6:56 pm
 Operator : amym
 Sample : ic957-400
 Misc : ms32403,msu957,,,,5,1
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 04 09:03:51 2014
 Quant Method : D:\msdchem\1\methods\U140802W.m
 Quant Title : SW-846 Method 8260
 QLast Update : Mon Aug 04 08:33:30 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) cis-1,2-dichloroethene	8.287	96	3910670	365.94	ppb	97
38) bromochloromethane	8.453	128	2275940	366.96	ppb #	75
39) chloroform	8.491	83	6434128	368.86	ppb	96
41) Tetrahydrofuran	8.827	42	1136964	403.40	ppb	95
42) 1,1,1-trichloroethane	9.243	97	6454165	390.22	ppb	97
44) Cyclohexane	9.528	56	7421130	368.78	ppb	91
45) carbon tetrachloride	9.605	117	6339905	372.42	ppb	98
46) 1,1-dichloropropene	9.414	75	4504391	388.10	ppb	91
47) benzene	9.639	78	11813908	376.32	ppb	98
48) 1,2-dichloroethane	9.140	62	5536743	384.71	ppb	98
49) tert-amyl methyl ether	9.762	73	8176032	381.43	ppb	91
50) heptane	10.118	43	5154112	399.28	ppb #	53
51) trichloroethene	10.260	95	3883362	386.33	ppb	74
52) 1,2-dichloropropane	10.227	63	3805108	422.06	ppb	99
53) dibromomethane	10.201	93	2243467	397.52	ppb	93
54) bromodichloromethane	10.314	83	4950489	415.10	ppb	97
55) Methylcyclohexane	10.778	83	5277371	374.63	ppb	90
56) 2-chloroethyl vinyl ether	10.691	63	1743827	693.40	ppb	95
57) methyl methacrylate	10.408	69	1557589	586.90	ppb	86
58) 1,4-dioxane	10.449	88	120175	2078.53	ppb	75
59) cis-1,3-dichloropropene	10.933	75	4895333	509.04	ppb	89
61) 4-methyl-2-pentanone	11.026	43	3725082	442.38	ppb	99
62) toluene	11.710	92	7488314	474.10	ppb	96
63) trans-1,3-dichloropropene	11.353	75	3968314	588.48	ppb	96
64) 1,1,2-trichloroethane	11.527	83	2155921	513.84	ppb	92
65) ethyl methacrylate	11.728	69	2895127	558.54	ppb	92
67) tetrachloroethene	12.452	166	4142850	393.32	ppb	94
68) 1,3-dichloropropane	11.761	76	4003778	452.27	ppb	91
69) dibromochloromethane	12.053	129	4439009	409.30	ppb	99
70) 1,2-dibromoethane	12.304	107	3128295	437.15	ppb	98
71) 2-hexanone	11.882	43	3084522	423.46	ppb	94
72) chlorobenzene	13.133	112	10052296	417.18	ppb	90
73) 1,1,1,2-tetrachloroethane	13.053	131	5048018	342.15	ppb	95
74) ethylbenzene	13.308	91	14702859	381.91	ppb	86
75) m,p-xylene	13.493	106	12546322	776.28	ppb #	60
76) o-xylene	13.907	106	6830224	360.64	ppb	83
77) styrene	13.833	104	10029699	424.67	ppb	94
78) bromoform	13.660	173	3063528	415.73	ppb	100
79) trans-1,4-dichloro-2-b...	14.057	53	1167157	465.61	ppb	97
81) isopropylbenzene	14.271	105	16877765	395.92	ppb	84
83) bromobenzene	14.557	156	5303223	488.07	ppb #	75
84) 1,1,2,2-tetrachloroethane	13.913	83	3599862	443.30	ppb	98
85) 1,2,3-trichloropropane	14.058	75	3836299	485.00	ppb	99
86) n-propylbenzene	14.716	91	17116766	393.55	ppb	69
87) 2-chlorotoluene	14.834	91	12197251	431.80	ppb	79
88) 4-chlorotoluene	14.909	91	12554516	469.18	ppb	79
89) 1,3,5-trimethylbenzene	14.993	105	16413328	388.01	ppb	78
90) tert-butylbenzene	15.299	91	10404130	435.97	ppb	100
91) 1,2,4-trimethylbenzene	15.404	105	16181683	384.07	ppb	85
92) sec-butylbenzene	15.524	105	18220100	343.22	ppb	65

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140802\
Data File : U21519.D
Acq On : 3 Aug 2014 6:56 pm
Operator : amym
Sample : ic957-400
Misc : ms32403,msu957,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 04 09:03:51 2014
Quant Method : D:\msdchem\1\methods\U140802W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Aug 04 08:33:30 2014
Response via : Initial Calibration

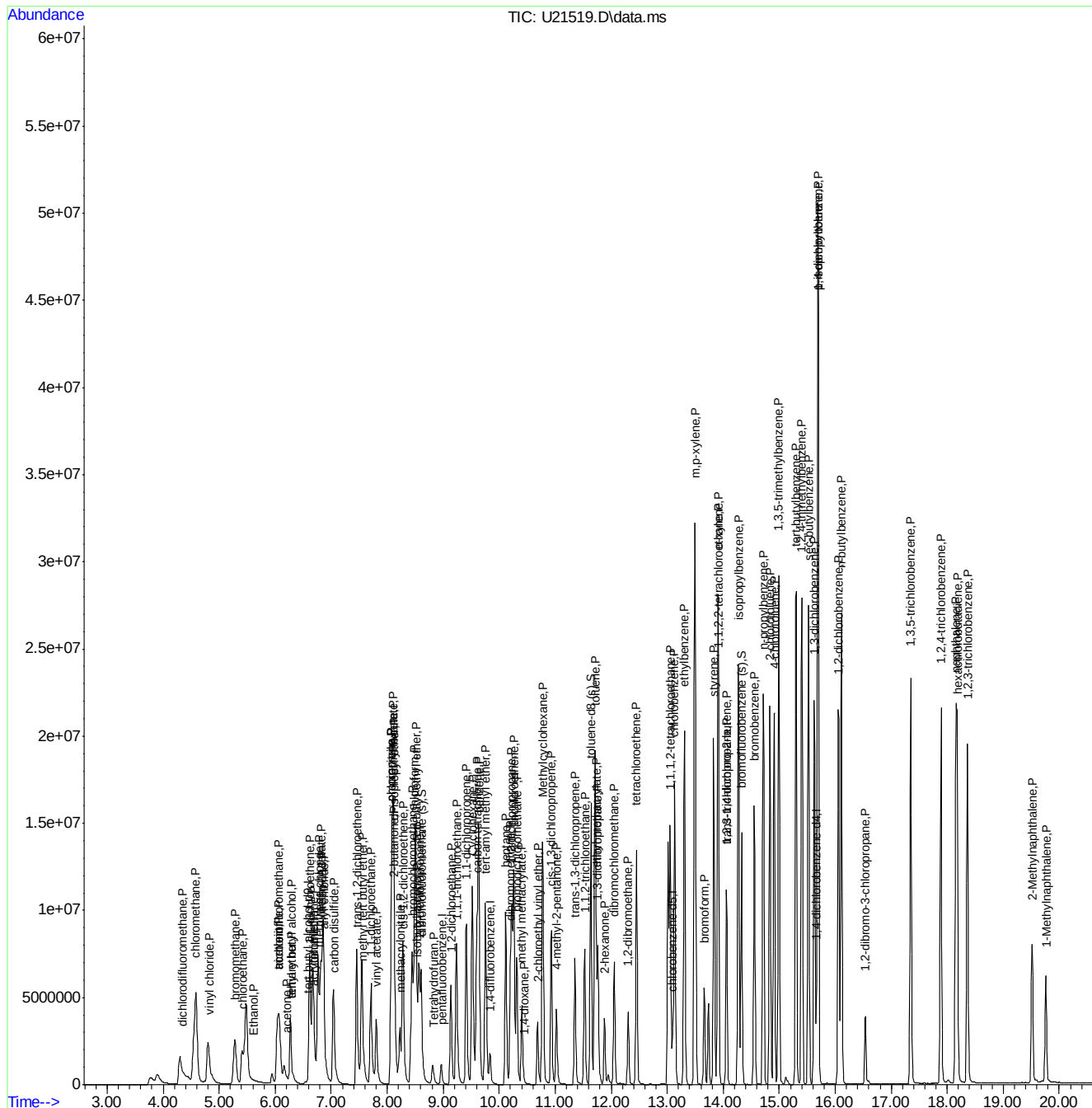
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,3-dichlorobenzene	15.626	146	10191814	404.84	ppb	99
94) p-isopropyltoluene	15.694	119	16961333	353.30	ppb	79
95) 1,4-dichlorobenzene	15.692	146	9664617	381.10	ppb	96
96) 1,2-dichlorobenzene	16.059	146	10235498	365.27	ppb	94
97) n-butylbenzene	16.111	91	14831894	362.06	ppb	76
98) 1,2-dibromo-3-chloropr...	16.538	75	999099	365.15	ppb	74
99) 1,3,5-trichlorobenzene	17.351	180	8082511	323.10	ug/L	96
100) 1,2,4-trichlorobenzene	17.889	180	7741654	317.23	ppb	93
101) hexachlorobutadiene	18.179	225	3849032	351.25	ppb	94
102) naphthalene	18.155	128	16774413	284.93	ppb	100
103) 2-Methylnaphthalene	19.518	142	5109015	158.15	ug/L	98
104) 1-Methylnaphthalene	19.765	142	3990578	151.00	ug/L	99
105) 1,2,3-trichlorobenzene	18.363	180	7068626	311.67	ppb	94

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

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140802\
Data File : U21519.D
Acq On : 3 Aug 2014 6:56 pm
Operator : amym
Sample : ic957-400
Misc : ms32403,msu957,,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 04 09:03:51 2014
Quant Method : D:\msdchem\1\methods\U140802W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Aug 04 08:33:30 2014
Response via : Initial Calibration



U140802W.m Mon Aug 04 09:11:41 2014

Page: 4

7.6.10

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140802\
 Data File : U21523.D
 Acq On : 3 Aug 2014 8:45 pm
 Operator : amym
 Sample : icv957-50
 Misc : ms32403,msu957,,,,5,1
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Aug 04 09:55:57 2014
 Quant Method : D:\msdchem\1\methods\U140802W.m
 Quant Title : SW-846 Method 8260
 QLast Update : Mon Aug 04 09:37:40 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.601	65	445277	50.00	ppb	0.00
4) pentafluorobenzene	8.975	168	767947	50.00	ppb	0.00
43) 1,4-difluorobenzene	9.842	114	1214596	50.00	ppb	0.00
66) chlorobenzene-d5	13.098	82	451393	50.00	ppb	# 0.00
80) 1,4-dichlorobenzene-d4	15.661	152	710863	50.00	ppb	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.614	113	433764	51.71	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	103.42%		
60) toluene-d8 (s)	11.639	98	1054929	51.77	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	103.54%		
82) bromofluorobenzene (s)	14.326	95	406013	49.38	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	98.76%		
Target Compounds						
						Qvalue
2) tertiary butyl alcohol	6.288	59	346553	505.87	ppb	96
3) Ethanol	5.565	45	477415	4680.17	ppb	98
5) dichlorodifluoromethane	4.330	85	578539	49.22	ppb	93
6) chloromethane	4.552	50	1052055	52.76	ppb	98
7) vinyl chloride	4.805	62	703798	50.96	ppb	100
8) bromomethane	5.281	96	409229	53.40	ppb	93
9) chloroethane	5.422	64	321930	62.31	ppb	99
10) ethyl ether	6.289	59	347629	53.01	ppb	85
11) acetonitrile	6.070	41	55567m	60.98	ppb	
12) trichlorofluoromethane	6.064	101	776638	46.95	ppb	99
13) freon-113	6.834	101	457022	55.73	ppb	87
14) acrolein	6.055	56	118530	254.95	ppb	99
15) 1,1-dichloroethene	6.633	96	383094	54.18	ppb	90
16) acetone	6.205	58	77606	41.05	ppb	94
17) Methyl Acetate	6.820	43	396480	55.42	ppb	# 90
18) methylene chloride	6.781	84	400813	51.56	ppb	87
19) methyl tert butyl ether	7.564	73	943185	51.92	ppb	90
20) acrylonitrile	6.699	53	178085	51.94	ppb	95
21) allyl chloride	6.873	41	807615	53.49	ppb	94
22) trans-1,2-dichloroethene	7.467	96	418394	51.13	ppb	90
23) iodomethane	6.689	142	856246	53.25	ppb	93
24) carbon disulfide	7.054	76	1173710	56.20	ppb	95
25) propionitrile	8.083	54	43469	59.48	ppb	100
26) vinyl acetate	7.822	43	526636	37.40	ppb	99
27) chloroprene	8.083	53	842929	64.69	ppb	92
28) di-isopropyl ether	8.123	45	1531767	50.95	ppb	98
29) methacrylonitrile	8.239	41	222721	48.81	ppb	94
30) 2-butanone	8.133	72	38382	42.61	ppb	# 15
31) Ethyl Acetate	8.117	43	1226255	47.86	ug/L	92
32) Hexane	8.106	41	619930	50.13	ppb	# 83
33) 1,1-dichloroethane	7.719	63	823528	52.59	ppb	98
34) tert-butyl ethyl ether	8.518	59	1336775	54.43	ppb	98
35) isobutyl alcohol	8.524	43	190814m	190.37	ppb	
36) 2,2-dichloropropane	8.576	77	468019	48.51	ppb	90

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140802\
 Data File : U21523.D
 Acq On : 3 Aug 2014 8:45 pm
 Operator : amym
 Sample : icv957-50
 Misc : ms32403,msu957,,,,5,1
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Aug 04 09:55:57 2014
 Quant Method : D:\msdchem\1\methods\U140802W.m
 Quant Title : SW-846 Method 8260
 QLast Update : Mon Aug 04 09:37:40 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) cis-1,2-dichloroethene	8.289	96	449791	49.54	ppb	94
38) bromochloromethane	8.455	128	255925	50.85	ppb #	78
39) chloroform	8.492	83	707811	50.47	ppb	98
41) Tetrahydrofuran	8.835	42	118366	48.01	ppb	87
42) 1,1,1-trichloroethane	9.241	97	692947	52.79	ppb	98
44) Cyclohexane	9.525	56	852915	57.37	ppb	91
45) carbon tetrachloride	9.605	117	678861	53.59	ppb	98
46) 1,1-dichloropropene	9.417	75	428746	49.24	ppb	92
47) benzene	9.640	78	1235563	49.45	ppb	96
48) 1,2-dichloroethane	9.142	62	548314	49.09	ppb	96
49) tert-amyl methyl ether	9.763	73	904205	53.22	ppb	91
50) heptane	10.118	43	489600m	49.07	ppb	
51) trichloroethene	10.261	95	373797	49.01	ppb	71
52) 1,2-dichloropropane	10.228	63	362656	50.75	ppb	100
53) dibromomethane	10.202	93	221976	49.40	ppb	91
54) bromodichloromethane	10.316	83	478095	52.00	ppb	95
55) Methylcyclohexane	10.778	83	606363	57.41	ppb	89
56) 2-chloroethyl vinyl ether	10.699	63	132333	53.14	ppb	95
57) methyl methacrylate	10.413	69	119930	58.37	ppb	82
58) 1,4-dioxane	10.447	88	7579m	164.63	ppb	
59) cis-1,3-dichloropropene	10.936	75	394469	51.08	ppb	88
61) 4-methyl-2-pentanone	11.041	43	332466	48.66	ppb	98
62) toluene	11.711	92	658479	51.95	ppb	95
63) trans-1,3-dichloropropene	11.357	75	318073	56.24	ppb	97
64) 1,1,2-trichloroethane	11.528	83	171829	49.82	ppb	87
65) ethyl methacrylate	11.738	69	229396	49.67	ppb	76
67) tetrachloroethene	12.454	166	347902	52.58	ppb	93
68) 1,3-dichloropropane	11.764	76	308469	50.92	ppb	90
69) dibromochloromethane	12.054	129	373780	52.14	ppb	95
70) 1,2-dibromoethane	12.306	107	252559	50.18	ppb	99
71) 2-hexanone	11.906	43	207318m	40.46	ppb	
72) chlorobenzene	13.133	112	835672	51.52	ppb	86
73) 1,1,1,2-tetrachloroethane	13.053	131	483091	51.86	ppb	95
74) ethylbenzene	13.309	91	1308143	52.21	ppb	90
75) m,p-xylene	13.493	106	1095737	102.92	ppb	87
76) o-xylene	13.906	106	652808	53.00	ppb	87
77) styrene	13.833	104	828127	51.41	ppb	99
78) bromoform	13.660	173	252816	51.80	ppb	98
79) trans-1,4-dichloro-2-b...	14.061	53	88034	55.04	ppb #	83
81) isopropylbenzene	14.269	105	1852967	57.01	ppb	97
83) bromobenzene	14.557	156	456962	50.61	ppb #	73
84) 1,1,2,2-tetrachloroethane	13.911	83	345087	51.61	ppb	98
85) 1,2,3-trichloropropane	14.061	75	330925	51.28	ppb	100
86) n-propylbenzene	14.715	91	1818225	53.83	ppb	89
87) 2-chlorotoluene	14.832	91	1166303	52.12	ppb	83
88) 4-chlorotoluene	14.909	91	1112095	50.67	ppb	84
89) 1,3,5-trimethylbenzene	14.992	105	1716335	54.40	ppb	92
90) tert-butylbenzene	15.297	91	972996	48.94	ppb	88
91) 1,2,4-trimethylbenzene	15.400	105	1799948	56.55	ppb	98
92) sec-butylbenzene	15.520	105	2227601	56.57	ppb	92

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140802\
 Data File : U21523.D
 Acq On : 3 Aug 2014 8:45 pm
 Operator : amym
 Sample : icv957-50
 Misc : ms32403,msu957,,,,5,1
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Aug 04 09:55:57 2014
 Quant Method : D:\msdchem\1\methods\U140802W.m
 Quant Title : SW-846 Method 8260
 QLast Update : Mon Aug 04 09:37:40 2014
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93)	1,3-dichlorobenzene	15.623	146	1021296	52.37	ppb	97
94)	p-isopropyltoluene	15.693	119	2015811	55.43	ppb	95
95)	1,4-dichlorobenzene	15.690	146	1022466	51.76	ppb	99
96)	1,2-dichlorobenzene	16.058	146	1153269	54.44	ppb	96
97)	n-butylbenzene	16.111	91	1696432	54.36	ppb	83
98)	1,2-dibromo-3-chloropr...	16.541	75	104595	48.19	ppb	77
99)	1,3,5-trichlorobenzene	17.351	180	1036089	56.26	ug/L	96
100)	1,2,4-trichlorobenzene	17.889	180	1038015	57.14	ppb	94
101)	hexachlorobutadiene	18.178	225	457055	54.82	ppb	96
102)	naphthalene	18.155	128	2479341	58.53	ppb	100
103)	2-Methylnaphthalene	19.519	142	1545363	64.54	ug/L	98
104)	1-Methylnaphthalene	19.766	142	1227743	63.21	ug/L	98
105)	1,2,3-trichlorobenzene	18.361	180	977120	58.07	ppb	94

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

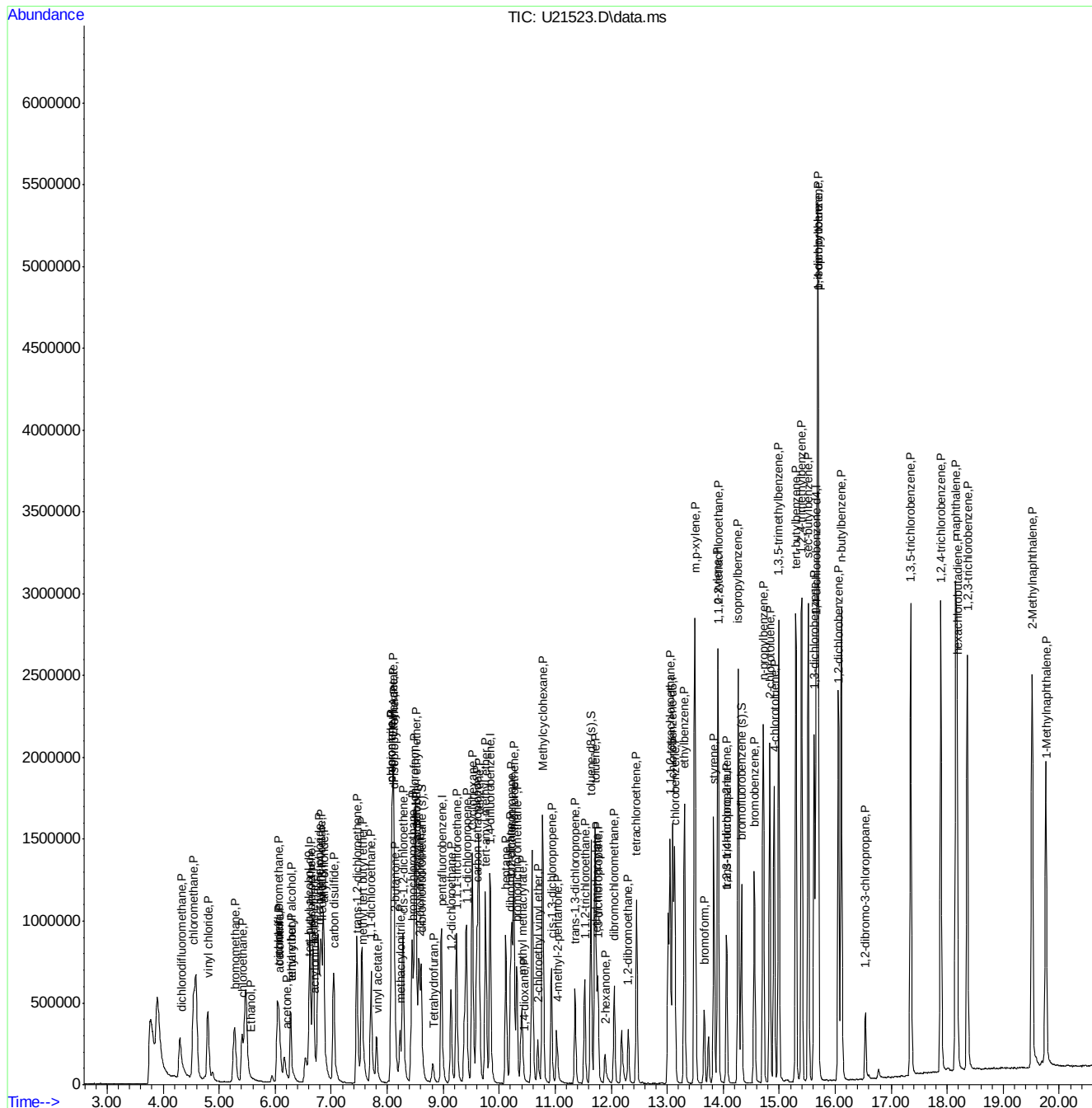
7.6.11

7

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140802\
Data File : U21523.D
Acq On : 3 Aug 2014 8:45 pm
Operator : amym
Sample : icv957-50
Misc : ms32403,msu957,,,,,5,1
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Aug 04 09:55:57 2014
Quant Method : D:\msdchem\1\methods\U140802W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Aug 04 09:37:40 2014
Response via : Initial Calibration



U140802W.m Mon Aug 04 10:00:37 2014

Page: 4

7.6.11



Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140804\
 Data File : U21528.D
 Acq On : 4 Aug 2014 9:24 am
 Operator : garyk
 Sample : cc957-50
 Misc : ms32403,msu957,,,,5,1
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 04 10:03:17 2014
 Quant Method : D:\msdchem\1\methods\U140802W.m
 Quant Title : SW-846 Method 8260
 QLast Update : Mon Aug 04 09:37:40 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	6.603	65	323825	50.00	ppb	0.00
4) pentafluorobenzene	8.974	168	798993	50.00	ppb	0.00
43) 1,4-difluorobenzene	9.842	114	1268933	50.00	ppb	0.00
66) chlorobenzene-d5	13.098	82	427955	50.00	ppb	# 0.00
80) 1,4-dichlorobenzene-d4	15.661	152	694347	50.00	ppb	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	8.613	113	486610	55.75	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	111.50%		
60) toluene-d8 (s)	11.638	98	1159383	54.46	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	108.92%		
82) bromofluorobenzene (s)	14.326	95	427377	53.21	ppb	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	106.42%		
Target Compounds						
						Qvalue
2) tertiary butyl alcohol	6.285	59	329865m	662.10	ppb	
3) Ethanol	5.586	45	527715m	7113.53	ppb	
5) dichlorodifluoromethane	4.331	85	617806	50.52	ppb	91
6) chloromethane	4.555	50	1004108	48.40	ppb	98
7) vinyl chloride	4.812	62	698840	48.64	ppb	99
8) bromomethane	5.285	96	377781	47.38	ppb	90
9) chloroethane	5.423	64	266337	49.55	ppb	95
10) ethyl ether	6.290	59	342848	50.25	ppb	94
11) acetonitrile	6.070	41	52265m	54.81	ppb	
12) trichlorofluoromethane	6.066	101	832501	48.37	ppb	94
13) freon-113	6.831	101	457995	53.68	ppb	83
14) acrolein	6.053	56	139245	287.87	ppb	95
15) 1,1-dichloroethene	6.632	96	362718	49.30	ppb	99
16) acetone	6.208	58	100768	51.23	ppb	87
17) Methyl Acetate	6.817	43	354218	47.59	ppb	# 88
18) methylene chloride	6.779	84	402047	49.71	ppb	84
19) methyl tert butyl ether	7.563	73	949219	50.22	ppb	91
20) acrylonitrile	6.696	53	182829	51.25	ppb	97
21) allyl chloride	6.873	41	797105	50.74	ppb	93
22) trans-1,2-dichloroethene	7.468	96	416043	48.86	ppb	91
23) iodomethane	6.688	142	834234	49.86	ppb	95
24) carbon disulfide	7.053	76	1106127	50.91	ppb	98
25) propionitrile	8.085	54	37386	49.17	ppb	100
26) vinyl acetate	7.820	43	772455	52.73	ppb	99
27) chloroprene	8.082	53	708806	52.28	ppb	92
28) di-isopropyl ether	8.122	45	1595407	51.00	ppb	94
29) methacrylonitrile	8.239	41	232433	48.96	ppb	96
30) 2-butanone	8.135	72	50714	54.12	ppb	# 52
31) Ethyl Acetate	8.118	43	1408795	52.85	ug/L	99
32) Hexane	8.105	41	686939	53.39	ppb	# 80
33) 1,1-dichloroethane	7.718	63	817445	50.17	ppb	99
34) tert-butyl ethyl ether	8.518	59	1313641	51.41	ppb	97
35) isobutyl alcohol	8.537	43	240268	230.40	ppb	# 61
36) 2,2-dichloropropane	8.576	77	555114	55.30	ppb	90

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140804\
 Data File : U21528.D
 Acq On : 4 Aug 2014 9:24 am
 Operator : garyk
 Sample : cc957-50
 Misc : ms32403,msu957,,,,5,1
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 04 10:03:17 2014
 Quant Method : D:\msdchem\1\methods\U140802W.m
 Quant Title : SW-846 Method 8260
 QLast Update : Mon Aug 04 09:37:40 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) cis-1,2-dichloroethene	8.289	96	460744	48.78	ppb	96
38) bromochloromethane	8.454	128	262323	50.10	ppb	# 78
39) chloroform	8.492	83	744145	51.00	ppb	99
41) Tetrahydrofuran	8.835	42	124537	48.55	ppb	84
42) 1,1,1-trichloroethane	9.240	97	702154	51.42	ppb	99
44) Cyclohexane	9.525	56	838651	54.00	ppb	91
45) carbon tetrachloride	9.605	117	699286	52.84	ppb	98
46) 1,1-dichloropropene	9.416	75	488075	53.65	ppb	90
47) benzene	9.640	78	1297355	49.70	ppb	95
48) 1,2-dichloroethane	9.141	62	581261	49.81	ppb	99
49) tert-amyl methyl ether	9.763	73	906210	51.05	ppb	89
50) heptane	10.121	43	582840	55.92	ppb	# 60
51) trichloroethene	10.260	95	415061	52.09	ppb	76
52) 1,2-dichloropropane	10.228	63	374215	50.12	ppb	99
53) dibromomethane	10.202	93	233757	49.79	ppb	88
54) bromodichloromethane	10.315	83	495857	51.62	ppb	96
55) Methylcyclohexane	10.778	83	603189	54.67	ppb	89
56) 2-chloroethyl vinyl ether	10.702	63	105494	41.36	ppb	95
57) methyl methacrylate	10.419	69	107208	49.95	ppb	80
58) 1,4-dioxane	10.452	88	12472	256.79	ppb	# 63
59) cis-1,3-dichloropropene	10.935	75	405619	50.27	ppb	86
61) 4-methyl-2-pentanone	11.043	43	371733	52.07	ppb	95
62) toluene	11.711	92	653786	49.37	ppb	97
63) trans-1,3-dichloropropene	11.357	75	279081	47.23	ppb	98
64) 1,1,2-trichloroethane	11.527	83	168022	46.63	ppb	88
65) ethyl methacrylate	11.741	69	218192	45.22	ppb	# 72
67) tetrachloroethene	12.453	166	356556	56.84	ppb	95
68) 1,3-dichloropropane	11.763	76	290038	50.49	ppb	89
69) dibromochloromethane	12.053	129	360242	53.00	ppb	97
70) 1,2-dibromoethane	12.306	107	234449	49.13	ppb	97
71) 2-hexanone	11.910	43	265109	54.58	ppb	99
72) chlorobenzene	13.133	112	790275	51.39	ppb	86
73) 1,1,1,2-tetrachloroethane	13.052	131	498201	56.41	ppb	95
74) ethylbenzene	13.309	91	1287374	54.19	ppb	92
75) m,p-xylene	13.493	106	1066887	105.70	ppb	88
76) o-xylene	13.906	106	637501	54.59	ppb	88
77) styrene	13.833	104	775598	50.78	ppb	99
78) bromoform	13.660	173	250803	54.20	ppb	99
79) trans-1,4-dichloro-2-b...	14.058	53	90614m	59.75	ppb	
81) isopropylbenzene	14.269	105	1753064	55.22	ppb	97
83) bromobenzene	14.557	156	434965	49.32	ppb	# 76
84) 1,1,2,2-tetrachloroethane	13.911	83	336754	51.56	ppb	99
85) 1,2,3-trichloropropane	14.060	75	335777	53.27	ppb	97
86) n-propylbenzene	14.715	91	1768161	53.60	ppb	89
87) 2-chlorotoluene	14.832	91	1139253	52.12	ppb	82
88) 4-chlorotoluene	14.909	91	1078272	50.30	ppb	81
89) 1,3,5-trimethylbenzene	14.992	105	1724534	55.96	ppb	95
90) tert-butylbenzene	15.297	91	978017	50.27	ppb	87
91) 1,2,4-trimethylbenzene	15.401	105	1706394	54.89	ppb	97
92) sec-butylbenzene	15.520	105	2184509	56.80	ppb	91

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140804\
 Data File : U21528.D
 Acq On : 4 Aug 2014 9:24 am
 Operator : garyk
 Sample : cc957-50
 Misc : ms32403,msu957,,,,5,1
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 04 10:03:17 2014
 Quant Method : D:\msdchem\1\methods\U140802W.m
 Quant Title : SW-846 Method 8260
 QLast Update : Mon Aug 04 09:37:40 2014
 Response via : Initial Calibration

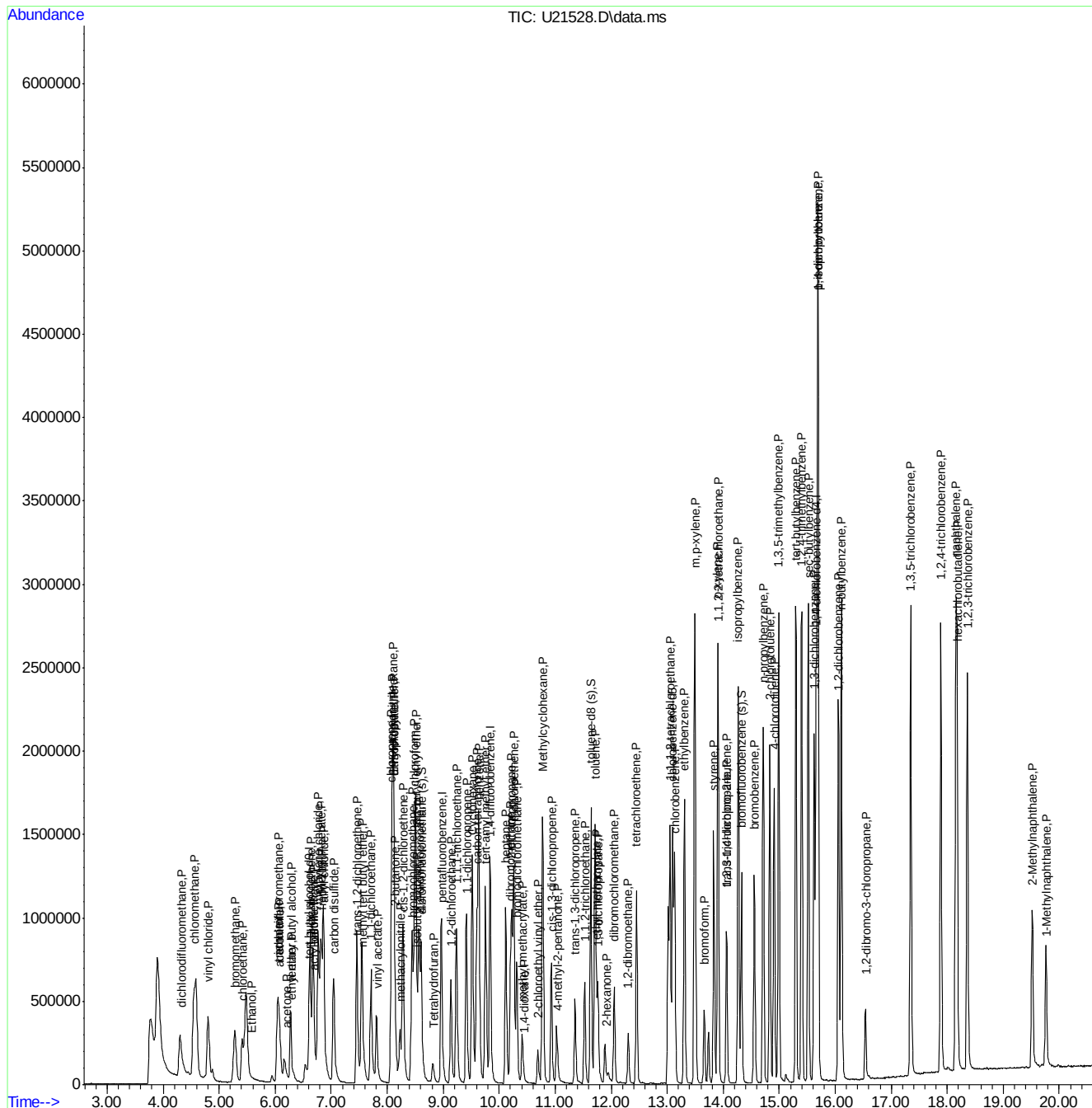
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,3-dichlorobenzene	15.622	146	1004825	52.76	ppb	96
94) p-isopropyltoluene	15.693	119	1967397	55.38	ppb	94
95) 1,4-dichlorobenzene	15.690	146	1000601	51.86	ppb	99
96) 1,2-dichlorobenzene	16.058	146	1115461	53.91	ppb	97
97) n-butylbenzene	16.112	91	1685922	55.31	ppb	82
98) 1,2-dibromo-3-chloropr...	16.542	75	112091	52.87	ppb #	63
99) 1,3,5-trichlorobenzene	17.351	180	1008716	56.08	ug/L	96
100) 1,2,4-trichlorobenzene	17.890	180	984060	55.45	ppb	93
101) hexachlorobutadiene	18.179	225	455236	55.90	ppb	95
102) naphthalene	18.155	128	2335496	56.45	ppb	100
103) 2-Methylnaphthalene	19.523	142	607044	25.95	ug/L	98
104) 1-Methylnaphthalene	19.770	142	495674	26.13	ug/L	97
105) 1,2,3-trichlorobenzene	18.363	180	896801	54.56	ppb	94

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

Quantitation Report (QT Reviewed)

Data Path : D:\msdchem\1\data\U140804\
Data File : U21528.D
Acq On : 4 Aug 2014 9:24 am
Operator : garyk
Sample : cc957-50
Misc : ms32403,msu957,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 04 10:03:17 2014
Quant Method : D:\msdchem\1\methods\U140802W.m
Quant Title : SW-846 Method 8260
QLast Update : Mon Aug 04 09:37:40 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
 Data File : v33442.D
 Acq On : 1 Aug 2014 9:27 am
 Operator : amym
 Sample : ic1226-0.5
 Misc : MS32359,MSV1226,,,,5,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 01 13:14:48 2014
 Quant Method : C:\msdchem\1\METHODS\v140801w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Aug 01 13:11:19 2014
 Response via : Initial Calibration

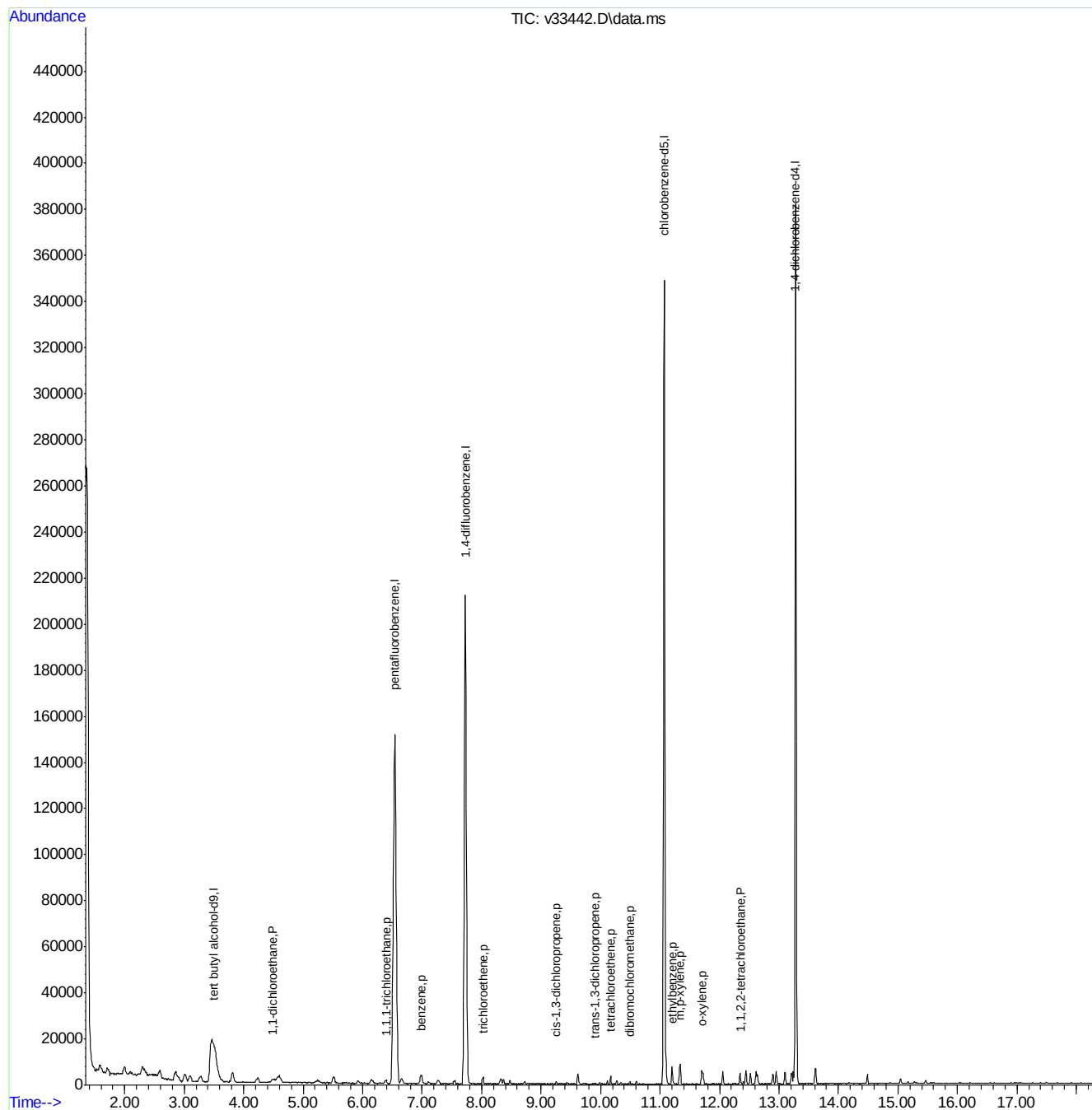
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.500	65	50029	500.00	ug/L	# 0.00
4) pentafluorobenzene	6.542	168	178791	50.00	ug/L	0.00
43) 1,4-difluorobenzene	7.727	114	221199	50.00	ug/L	0.00
66) chlorobenzene-d5	11.070	82	86468	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	13.283	152	85825	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	0.000	113	0	0.00	ug/L	
Spiked Amount 50.000	Range 70 - 130		Recovery	=	0.00%#	
60) toluene-d8 (s)	0.000	98	0	0.00	ug/L	
Spiked Amount 50.000	Range 70 - 130		Recovery	=	0.00%#	
82) bromofluorobenzene (s)	0.000	95	0	0.00	ug/L	
Spiked Amount 50.000	Range 70 - 130		Recovery	=	0.00%#	
Target Compounds						
32) 1,1-dichloroethane	4.487	63	3175	0.80	ug/L	# 51
42) 1,1,1-trichloroethane	6.388	97	1646	0.52	ug/L	90
47) benzene	6.982	78	5706m	1.11	ug/L	
51) trichloroethene	8.020	95	1140	0.75	ug/L	89
59) cis-1,3-dichloropropene	9.252	75	795m	0.54	ug/L	
63) trans-1,3-dichloropropene	9.906	75	506m	0.48	ug/L	
67) tetrachloroethene	10.172	166	1048	0.71	ug/L	80
69) dibromochloromethane	10.492	129	343m	0.33	ug/L	
74) ethylbenzene	11.204	91	4567	0.81	ug/L	93
75) m,p-xylene	11.335	106	3439	1.58	ug/L	95
76) o-xylene	11.702	106	1490	0.67	ug/L	91
84) 1,1,2,2-tetrachloroethane	12.351	83	570m	0.66	ug/L	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33442.D
Acq On : 1 Aug 2014 9:27 am
Operator : amym
Sample : ic1226-0.5
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

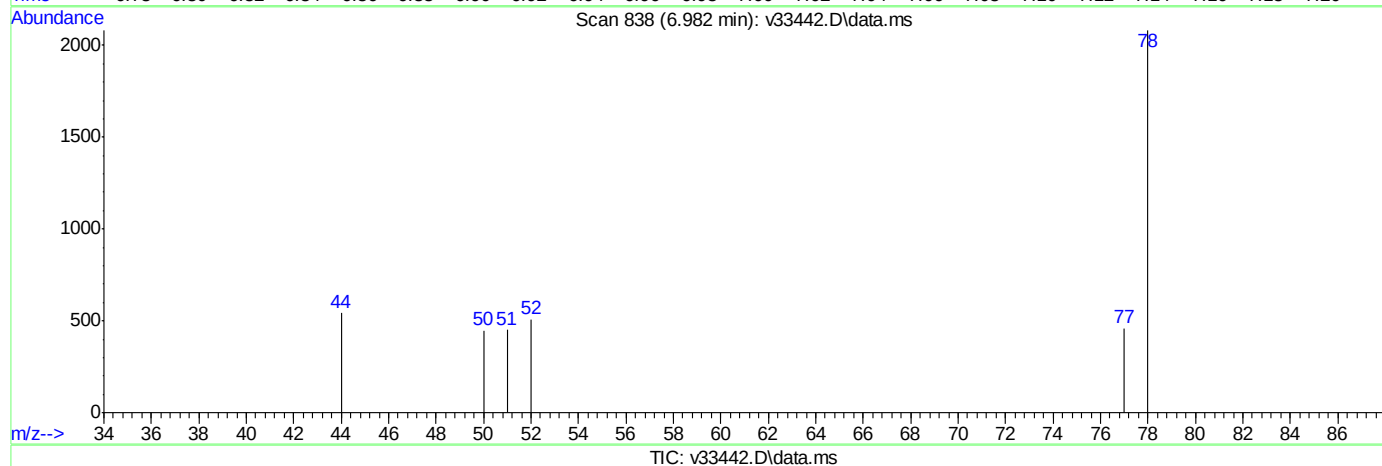
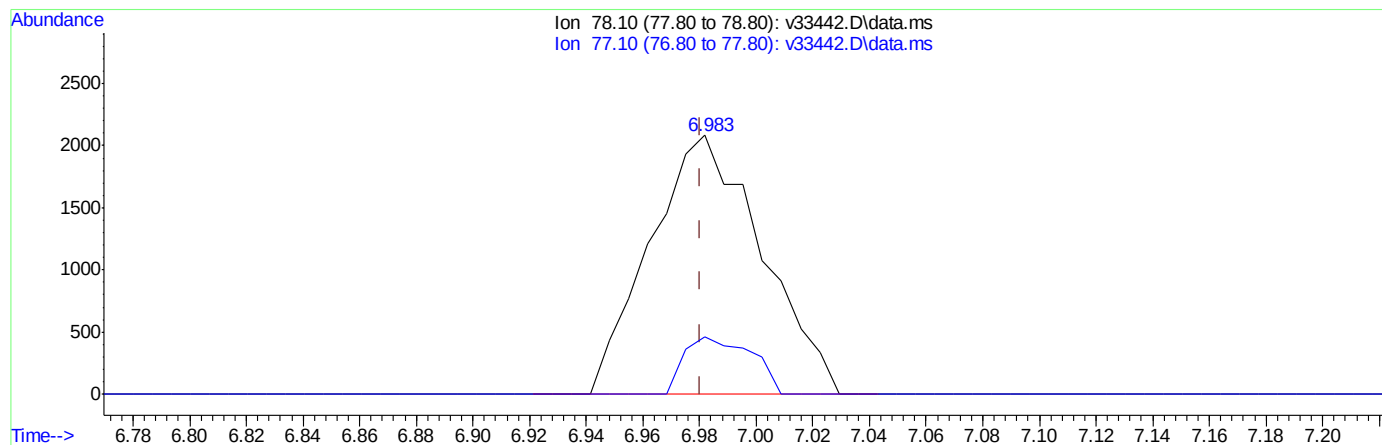
Quant Time: Aug 01 13:14:48 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33442.D
Acq On : 1 Aug 2014 9:27 am
Operator : amym
Sample : ic1226-0.5
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 01 13:11:43 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



(47) benzene (p)

6.983min (+0.003) 1.11ug/L

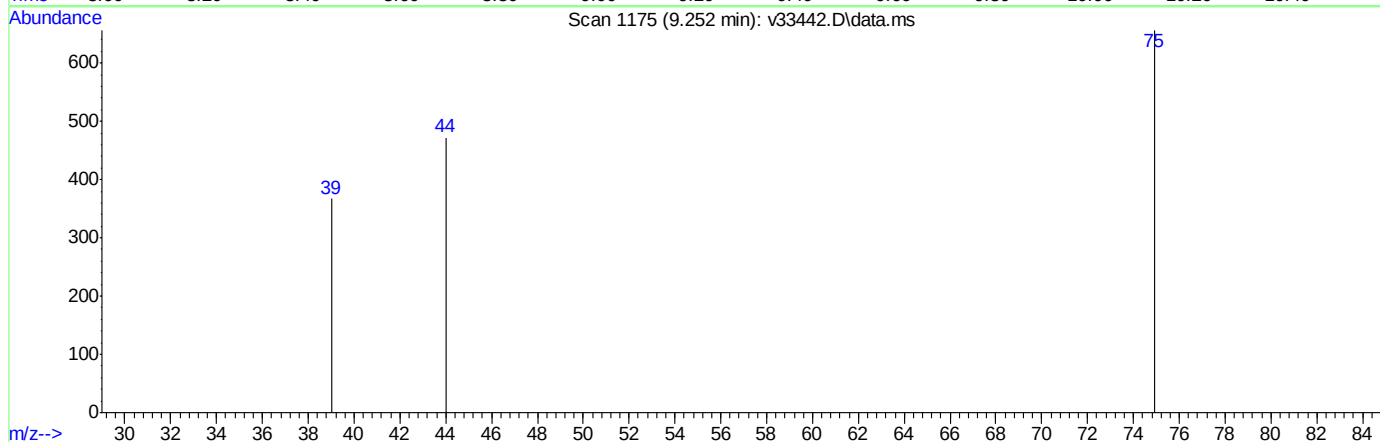
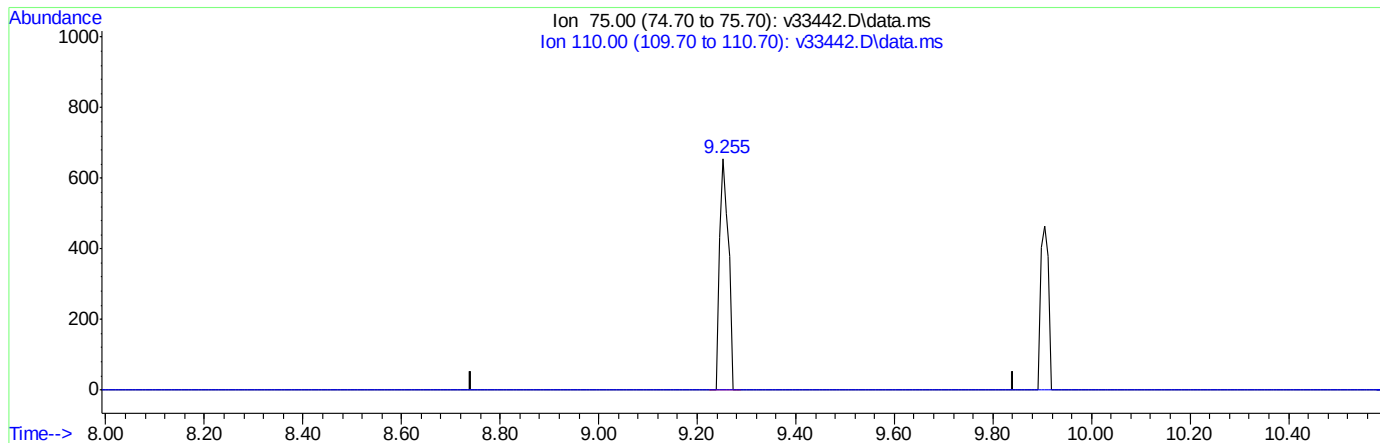
response 5706

Ion	Exp%	Act%
78.10	100	100
77.10	23.30	22.05
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33442.D
Acq On : 1 Aug 2014 9:27 am
Operator : amym
Sample : ic1226-0.5
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 01 13:11:43 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



TIC: v33442.D\data.ms

(59) cis-1,3-dichloropropene (p)

9.252min (+0.000) 0.54ug/L m

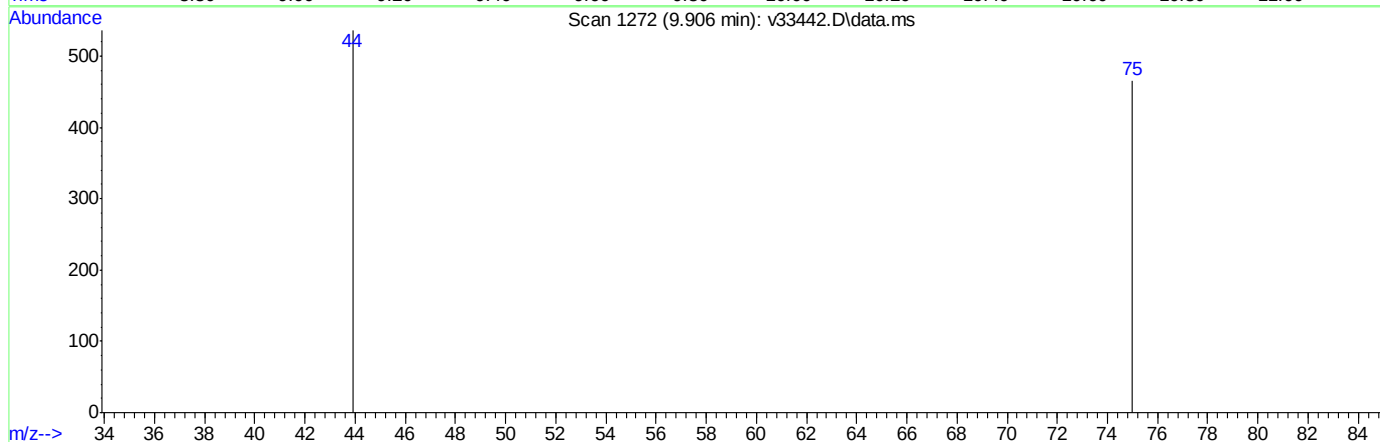
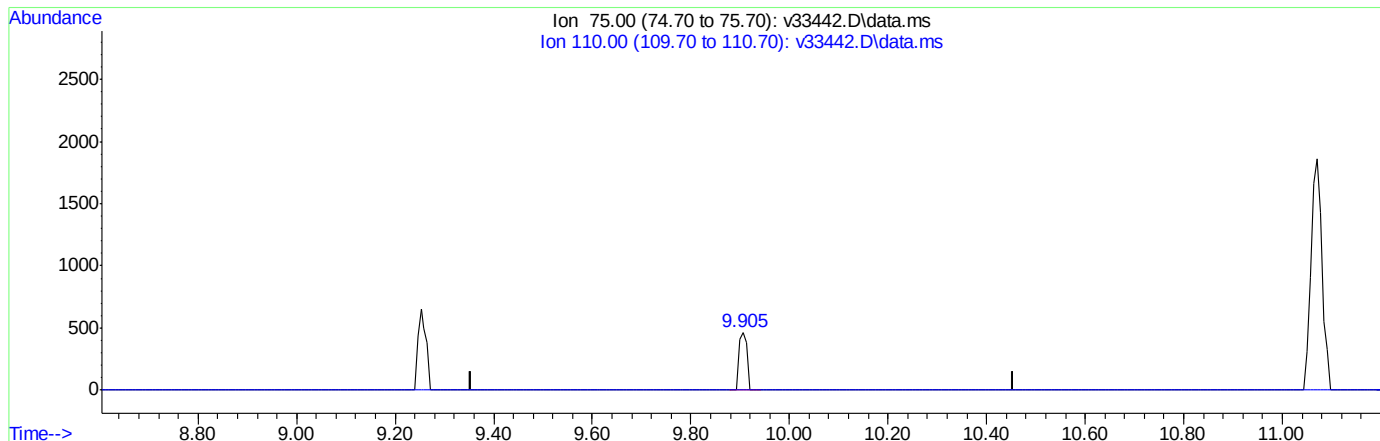
response 795

Ion	Exp%	Act%
75.00	100	100
110.00	25.10	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33442.D
Acq On : 1 Aug 2014 9:27 am
Operator : amym
Sample : ic1226-0.5
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 01 13:11:43 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



TIC: v33442.D\data.ms

(63) trans-1,3-dichloropropene (p)

9.906min (+0.001) 0.48ug/L m

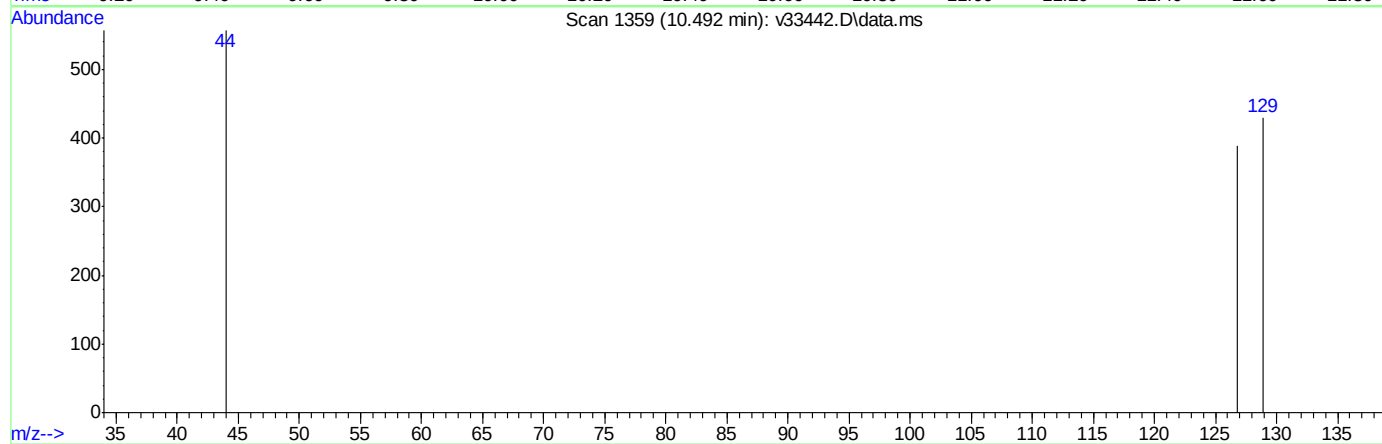
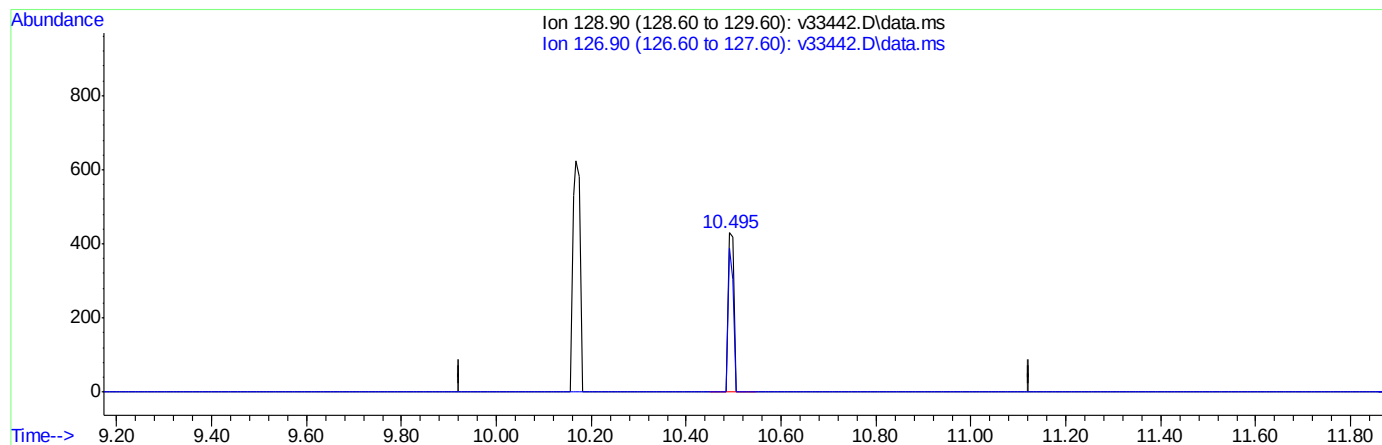
response 506

Ion	Exp%	Act%
75.00	100	100
110.00	24.80	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33442.D
Acq On : 1 Aug 2014 9:27 am
Operator : amym
Sample : ic1226-0.5
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 01 13:11:43 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



TIC: v33442.D\data.ms

(69) dibromochloromethane (p)

10.492min (-0.001) 0.33ug/L m

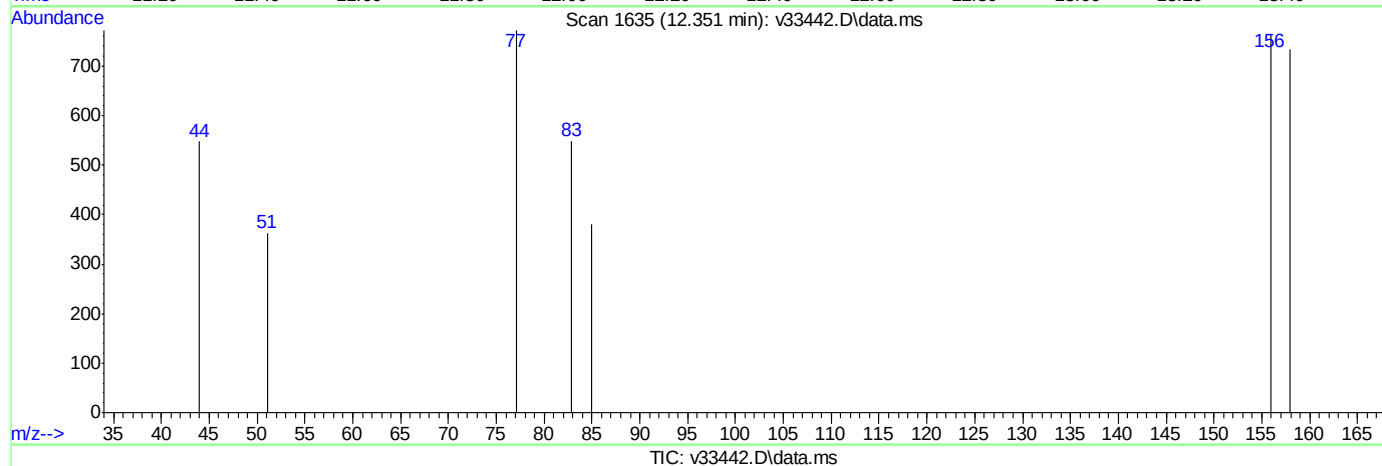
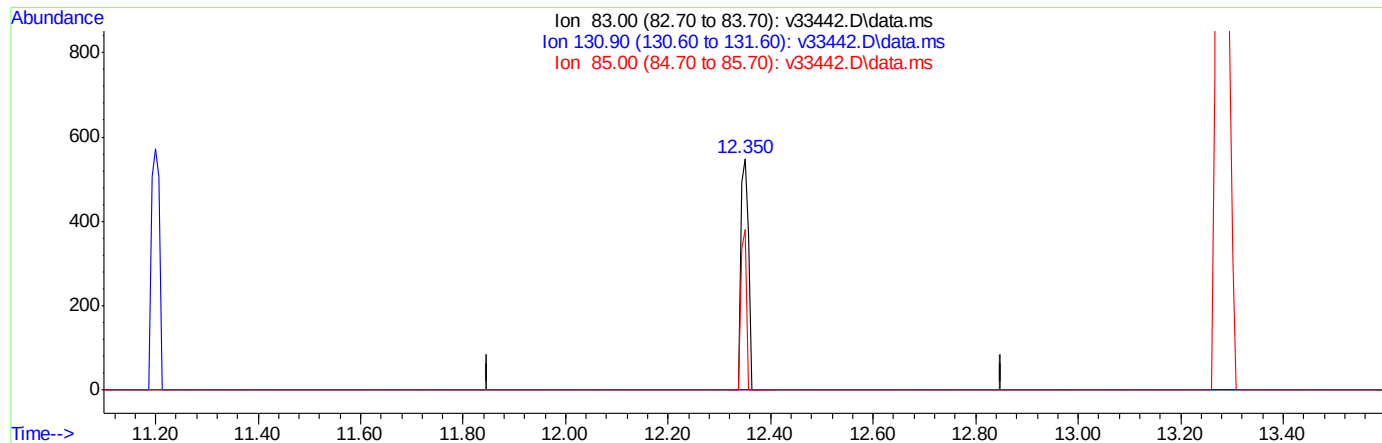
response 343

Ion	Exp%	Act%
128.90	100	100
126.90	76.70	90.47
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33442.D
Acq On : 1 Aug 2014 9:27 am
Operator : amym
Sample : ic1226-0.5
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 01 13:11:43 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



(84) 1,1,2,2-tetrachloroethane (P)

12.351min (+0.002) 0.66ug/L m

response 570

Ion	Exp%	Act%
83.00	100	100
130.90	12.80	0.00
85.00	66.90	69.22
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
 Data File : v33443.D
 Acq On : 1 Aug 2014 9:54 am
 Operator : amym
 Sample : ic1226-1
 Misc : MS32359,MSV1226,,,,5,1
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 01 13:18:02 2014
 Quant Method : C:\msdchem\1\METHODS\v140801w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Aug 01 13:11:19 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.493	65	44323	500.00	ug/L	# 0.00
4) pentafluorobenzene	6.537	168	170646	50.00	ug/L	0.00
43) 1,4-difluorobenzene	7.724	114	209947	50.00	ug/L	0.00
66) chlorobenzene-d5	11.069	82	81835	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	13.282	152	81388	50.00	ug/L	0.00

System Monitoring Compounds						
40) dibromofluoromethane (s)	0.000	113	0	0.00	ug/L	
Spiked Amount	50.000	Range	70 - 130	Recovery	=	0.00%#
60) toluene-d8 (s)	0.000	98	0	0.00	ug/L	
Spiked Amount	50.000	Range	70 - 130	Recovery	=	0.00%#
82) bromofluorobenzene (s)	0.000	95	0	0.00	ug/L	
Spiked Amount	50.000	Range	70 - 130	Recovery	=	0.00%#

Target Compounds				Qvalue		
5) dichlorodifluoromethane	1.478	85	7603m	1.02	ug/L	
6) chloromethane	1.589	50	4229	0.99	ug/L	91
7) vinyl chloride	1.705	62	4418	1.04	ug/L	96
8) bromomethane	1.989	96	2518	0.95	ug/L	98
9) chloroethane	2.081	64	1660	1.10	ug/L	# 44
10) ethyl ether	2.584	59	1410	1.02	ug/L	91
11) acetonitrile	3.271	41	3970	1.08	ug/L	# 33
12) trichlorofluoromethane	2.326	101	6448	1.03	ug/L	96
13) freon-113	2.886	101	1789	0.56	ug/L	# 72
15) 1,1-dichloroethene	2.842	96	1964	0.87	ug/L	# 80
18) methylene chloride	3.438	84	2431	1.08	ug/L	97
19) methyl tert butyl ether	3.809	73	4235	1.07	ug/L	47
21) allyl chloride	3.271	41	3970	1.08	ug/L	87
22) trans-1,2-dichloroethene	3.809	96	1914	0.92	ug/L	# 80
23) iodomethane	3.009	142	6199	1.09	ug/L	96
24) carbon disulfide	3.093	76	5407	0.78	ug/L	74
28) di-isopropyl ether	4.577	45	6562	0.99	ug/L	83
32) 1,1-dichloroethane	4.479	63	3667	0.97	ug/L	89
33) tert-butyl ethyl ether	5.240	59	3828	0.90	ug/L	# 41
34) isobutyl alcohol	4.551	43	5147	5.11	ug/L	47
36) cis-1,2-dichloroethene	5.503	96	1627	0.91	ug/L	# 77
39) chloroform	6.145	83	3167	1.00	ug/L	92
42) 1,1,1-trichloroethane	6.388	97	2235	0.74	ug/L	93
44) cyclohexane	6.520	56	5815	1.88	ug/L	# 27
45) carbon tetrachloride	6.644	117	1664	0.59	ug/L	91
46) 1,1-dichloropropene	6.658	75	1629	0.81	ug/L	# 38
47) benzene	6.979	78	6077	1.25	ug/L	100
48) 1,2-dichloroethane	7.105	62	1974	0.92	ug/L	83
49) tert-amyl methyl ether	7.266	73	1972	0.87	ug/L	82
50) heptane	7.541	43	1370	0.80	ug/L	# 69
51) trichloroethene	8.021	95	1226	0.85	ug/L	100
52) 1,2-dichloropropane	8.369	63	1114	0.80	ug/L	91
54) bromodichloromethane	8.725	83	1113	0.71	ug/L	93
59) cis-1,3-dichloropropene	9.252	75	978m	0.69	ug/L	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
 Data File : v33443.D
 Acq On : 1 Aug 2014 9:54 am
 Operator : amym
 Sample : ic1226-1
 Misc : MS32359,MSV1226,,,,,5,1
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 01 13:18:02 2014
 Quant Method : C:\msdchem\1\METHODS\v140801w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Aug 01 13:11:19 2014
 Response via : Initial Calibration

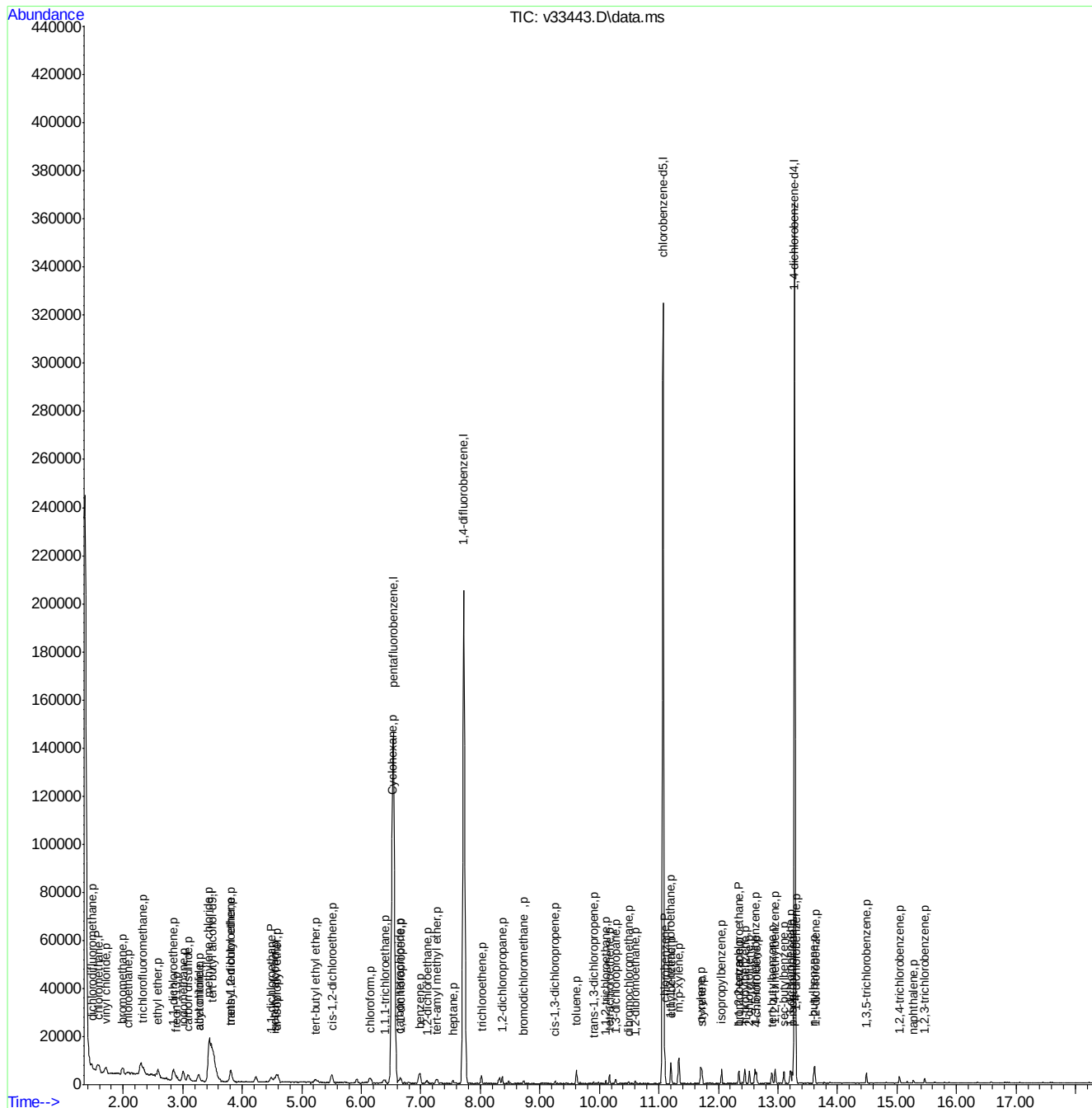
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
62) toluene	9.617	92	2646	1.01	ug/L	93
63) trans-1,3-dichloropropene	9.905	75	482m	0.48	ug/L	
64) 1,1,2-trichloroethane	10.107	83	461m	0.71	ug/L	
67) tetrachloroethene	10.169	166	1209	0.86	ug/L	87
68) 1,3-dichloropropane	10.273	76	1092	0.87	ug/L #	42
69) dibromochloromethane	10.491	129	449m	0.46	ug/L	
70) 1,2-dibromoethane	10.599	107	579m	0.70	ug/L	
72) chlorobenzene	11.098	112	3133	1.03	ug/L	99
73) 1,1,1,2-tetrachloroethane	11.199	131	677m	0.50	ug/L	
74) ethylbenzene	11.203	91	5085	0.95	ug/L	100
75) m,p-xylene	11.334	106	3784	1.84	ug/L	96
76) o-xylene	11.702	106	1892	0.90	ug/L	86
77) styrene	11.723	104	2710	0.85	ug/L	92
81) isopropylbenzene	12.053	105	4668	0.88	ug/L	99
83) bromobenzene	12.344	156	1308	1.00	ug/L	84
84) 1,1,2,2-tetrachloroethane	12.344	83	569m	0.69	ug/L	
86) n-propylbenzene	12.443	91	5399	0.92	ug/L	94
87) 2-chlorotoluene	12.522	91	3608	1.00	ug/L	100
88) 4-chlorotoluene	12.634	91	4172	1.01	ug/L	94
89) 1,3,5-trimethylbenzene	12.612	105	4263	0.91	ug/L	95
90) tert-butylbenzene	12.897	91	2001	0.80	ug/L	91
91) 1,2,4-trimethylbenzene	12.953	105	4263	0.91	ug/L	95
92) sec-butylbenzene	13.101	105	4373	0.81	ug/L	98
93) 1,3-dichlorobenzene	13.210	146	2773	1.11	ug/L	95
94) p-isopropyltoluene	13.242	119	4008	0.83	ug/L	99
95) 1,4-dichlorobenzene	13.304	146	2764	1.10	ug/L	96
96) 1,2-dichlorobenzene	13.622	146	2494	1.05	ug/L	94
97) n-butylbenzene	13.607	91	3595	0.89	ug/L	95
99) 1,3,5-trichlorobenzene	14.487	180	1898	1.06	ug/L	99
100) 1,2,4-trichlorobenzene	15.043	180	1300	0.90	ug/L	93
102) naphthalene	15.277	128	1556	0.72	ug/L	100
103) 1,2,3-trichlorobenzene	15.466	180	1080	0.92	ug/L	89

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33443.D
Acq On : 1 Aug 2014 9:54 am
Operator : amym
Sample : ic1226-1
Misc : MS32359,MSV1226,,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 01 13:18:02 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



v140801w.m Mon Aug 04 12:42:24 2014

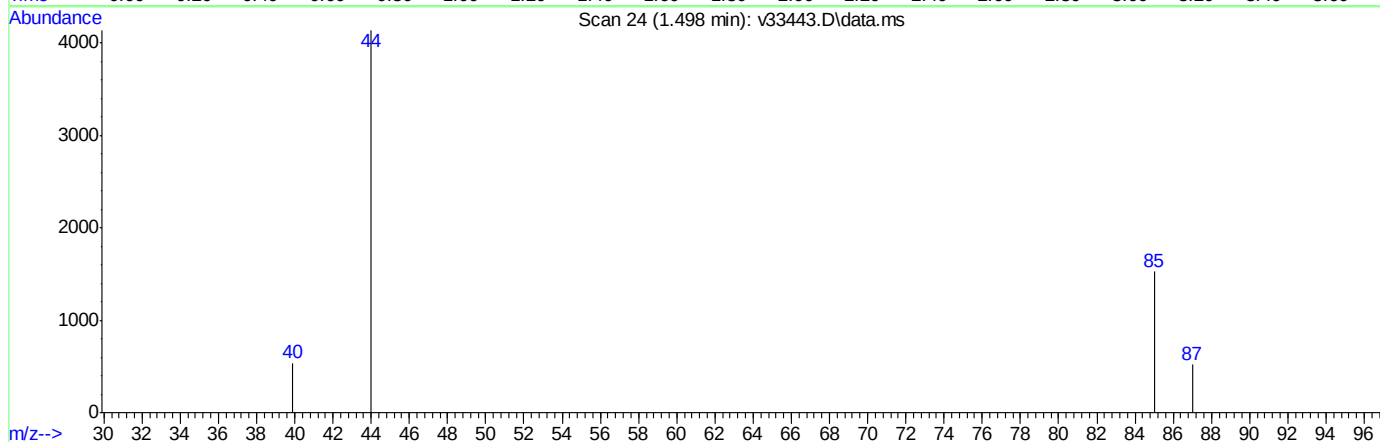
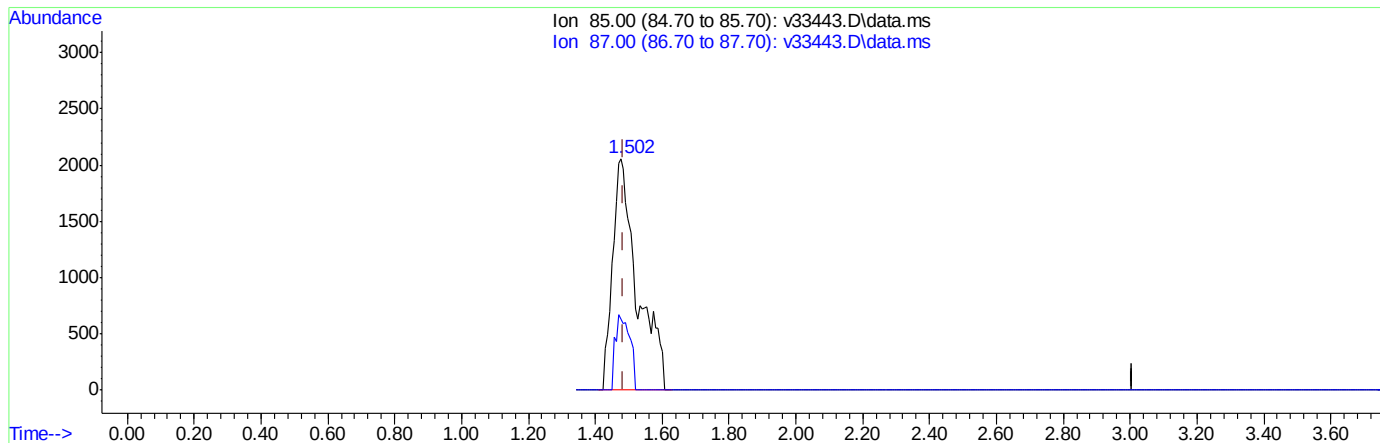
Page: 3

7.6.14

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33443.D
Acq On : 1 Aug 2014 9:54 am
Operator : amym
Sample : ic1226-1
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 01 13:11:46 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



TIC: v33443.D\data.ms

(5) dichlorodifluoromethane (p)

1.502min (+0.017) 1.37ug/L

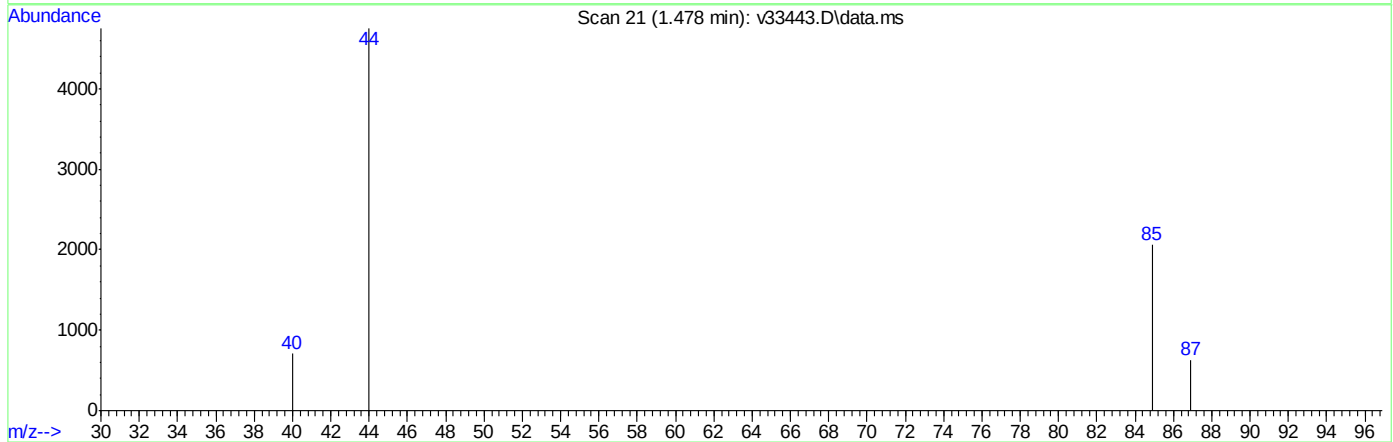
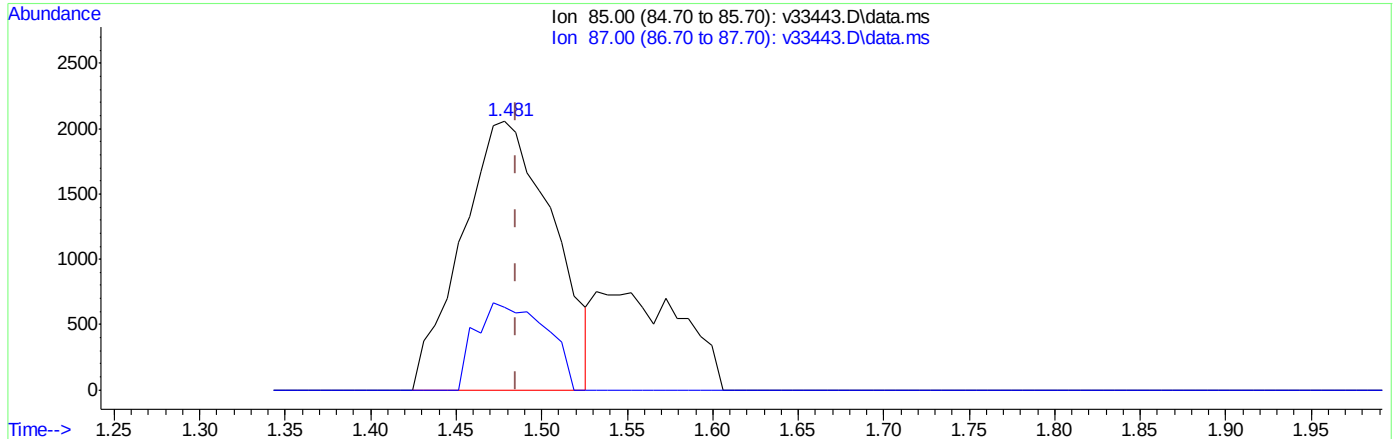
response 10282

Ion	Exp%	Act%
85.00	100	100
87.00	33.00	33.88
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33443.D
Acq On : 1 Aug 2014 9:54 am
Operator : amym
Sample : ic1226-1
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 01 13:11:46 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



TIC: v33443.D\data.ms

(5) dichlorodifluoromethane (p)

1.478min (-0.007) 1.02ug/L m

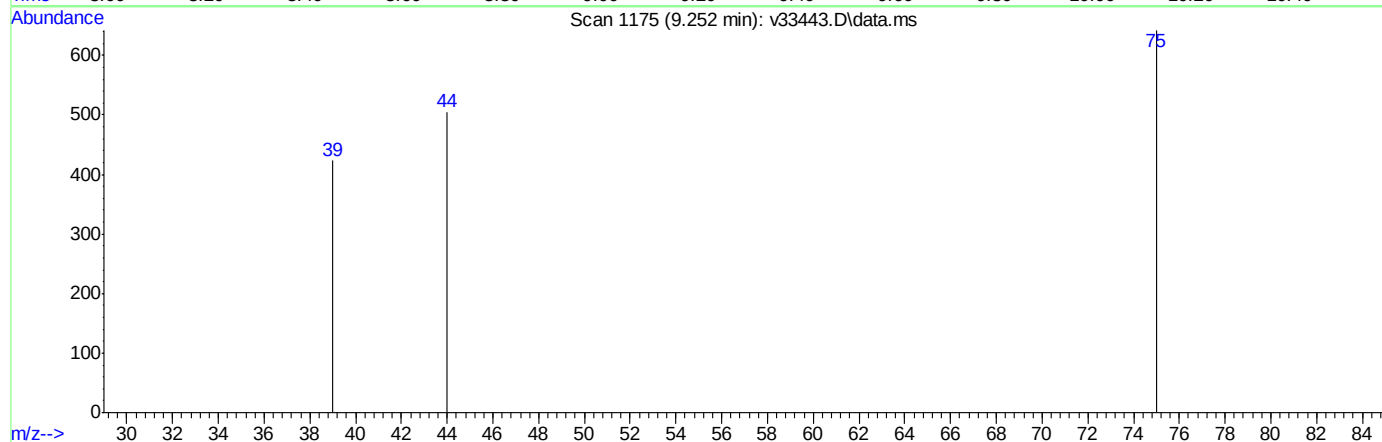
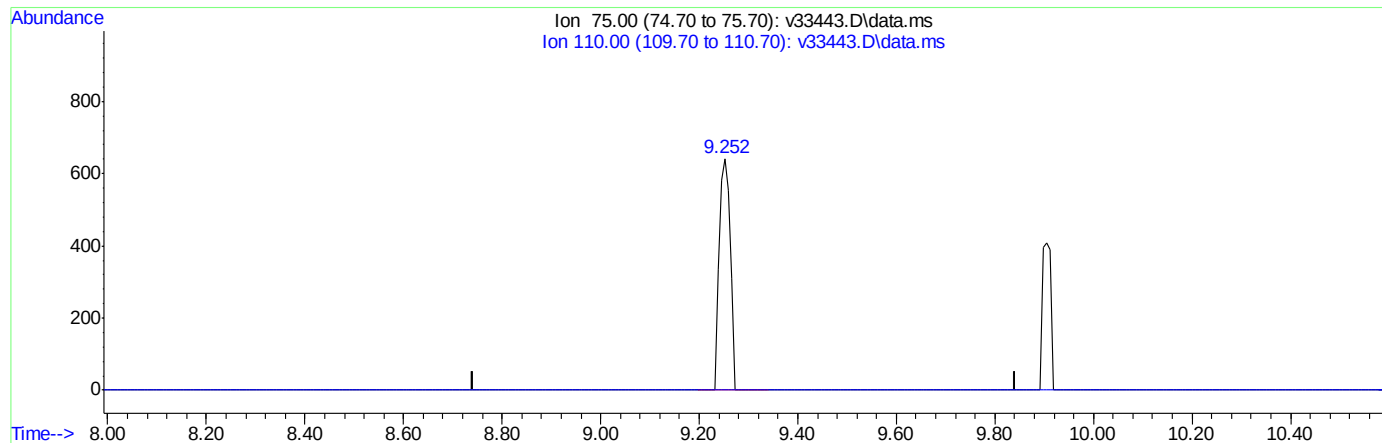
response 7603

Ion	Exp%	Act%
85.00	100	100
87.00	33.00	30.79
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33443.D
Acq On : 1 Aug 2014 9:54 am
Operator : amym
Sample : ic1226-1
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 01 13:11:46 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



(59) cis-1,3-dichloropropene (p)

9.252min (-0.000) 0.69ug/L m

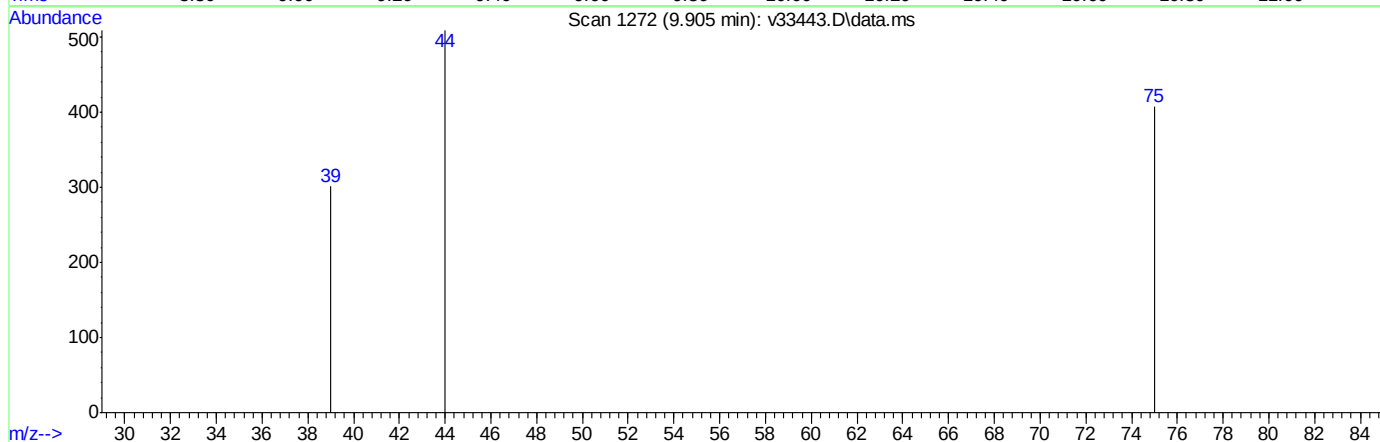
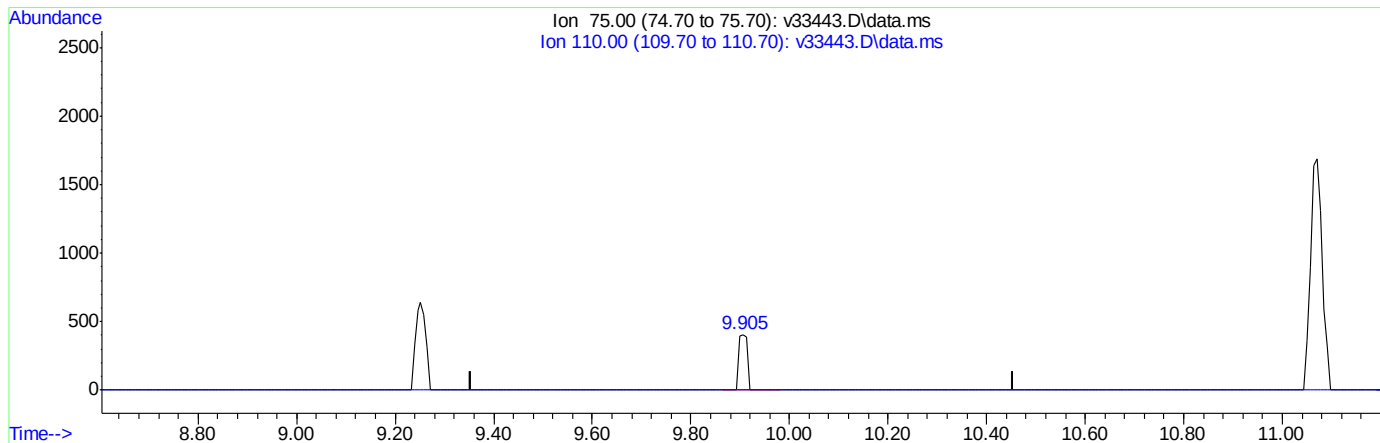
response 978

Ion	Exp%	Act%
75.00	100	100
110.00	25.10	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33443.D
Acq On : 1 Aug 2014 9:54 am
Operator : amym
Sample : ic1226-1
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 01 13:11:46 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



(63) trans-1,3-dichloropropene (p)

9.905min (+0.000) 0.48ug/L m

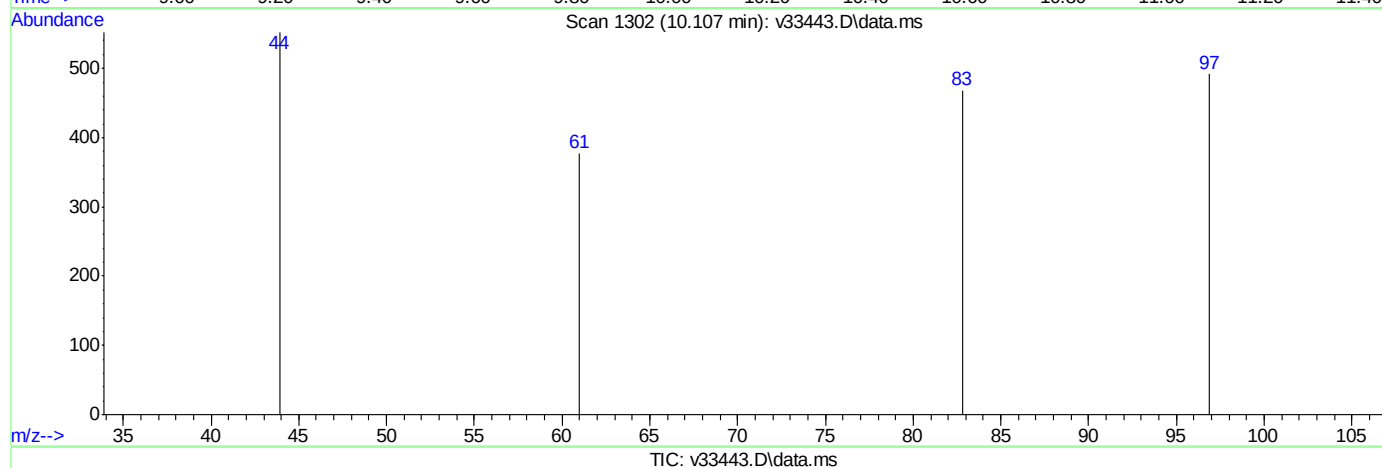
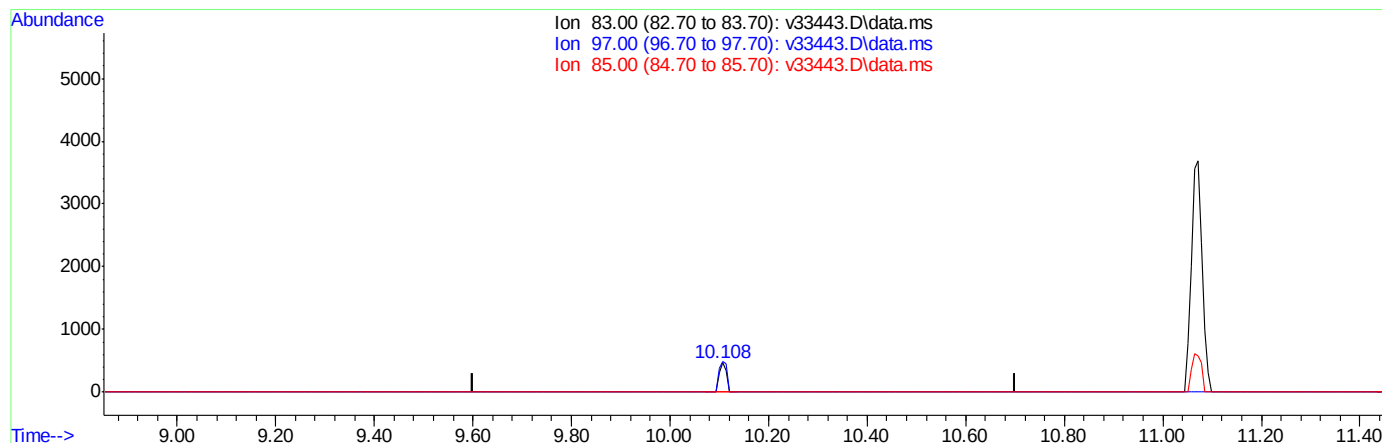
response 482

Ion	Exp%	Act%
75.00	100	100
110.00	24.80	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33443.D
Acq On : 1 Aug 2014 9:54 am
Operator : amym
Sample : ic1226-1
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 01 13:11:46 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



(64) 1,1,2-trichloroethane (p)

10.107min (-0.004) 0.71ug/L m

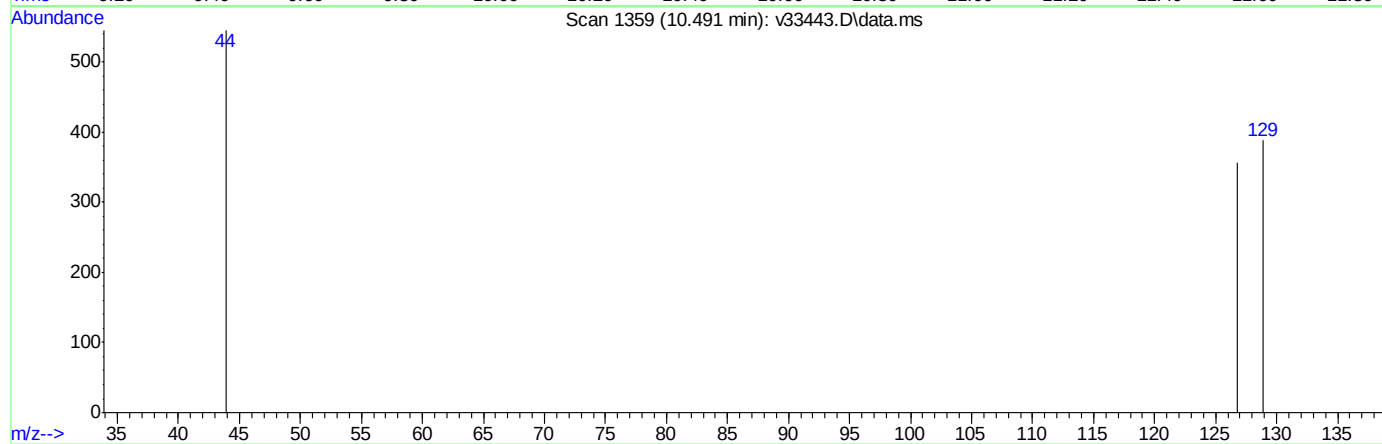
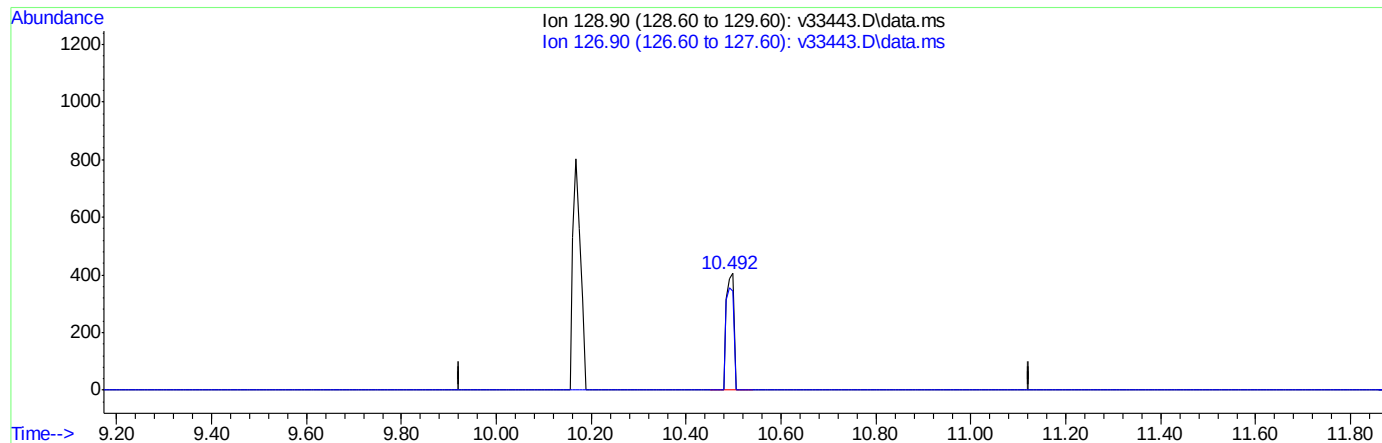
response 461

Ion	Exp%	Act%
83.00	100	100
97.00	119.50	105.13
85.00	66.90	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33443.D
Acq On : 1 Aug 2014 9:54 am
Operator : amym
Sample : ic1226-1
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 01 13:11:46 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



TIC: v33443.D\data.ms

(69) dibromochloromethane (p)

10.491min (-0.001) 0.46ug/L m

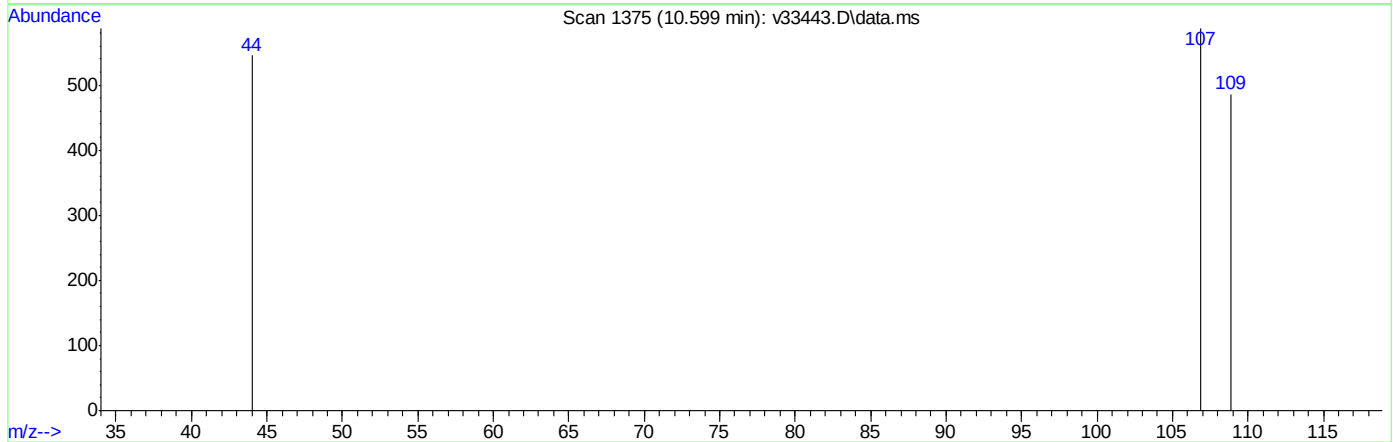
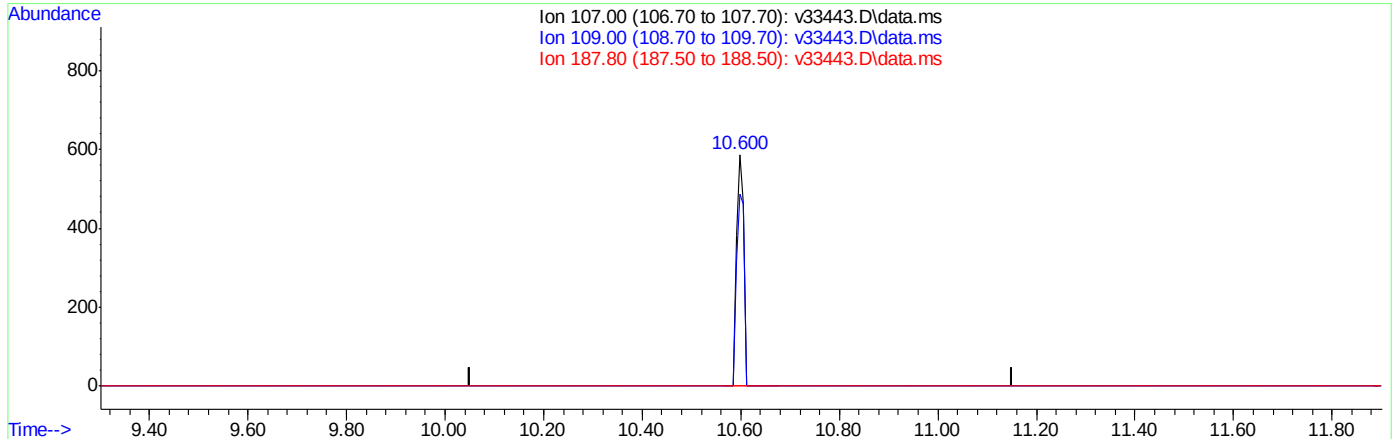
response 449

Ion	Exp%	Act%
128.90	100	100
126.90	76.70	91.75
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33443.D
Acq On : 1 Aug 2014 9:54 am
Operator : amym
Sample : ic1226-1
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 01 13:11:46 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



TIC: v33443.D\data.ms

(70) 1,2-dibromoethane (p)

10.599min (-0.003) 0.70ug/L m

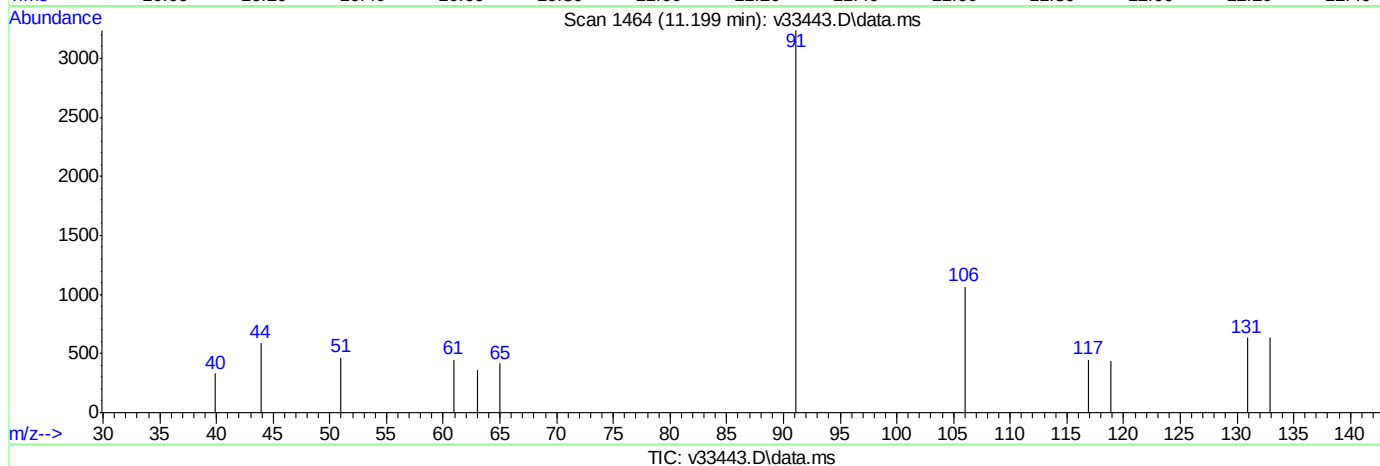
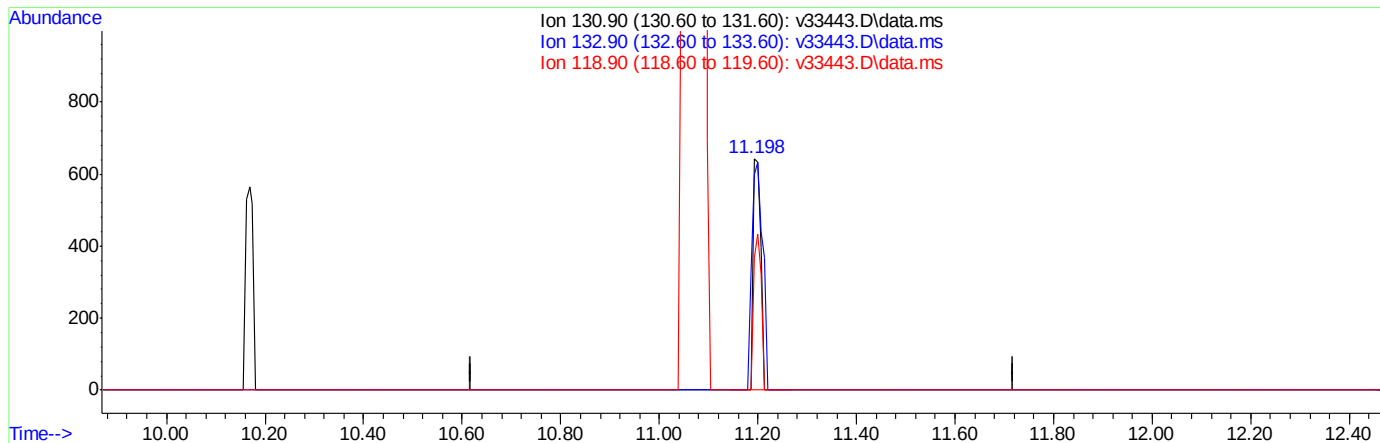
response 579

Ion	Exp%	Act%
107.00	100	100
109.00	97.00	82.79
187.80	2.70	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33443.D
Acq On : 1 Aug 2014 9:54 am
Operator : amym
Sample : ic1226-1
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 01 13:11:46 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



(73) 1,1,1,2-tetrachloroethane (p)

11.199min (-0.000) 0.50ug/L m

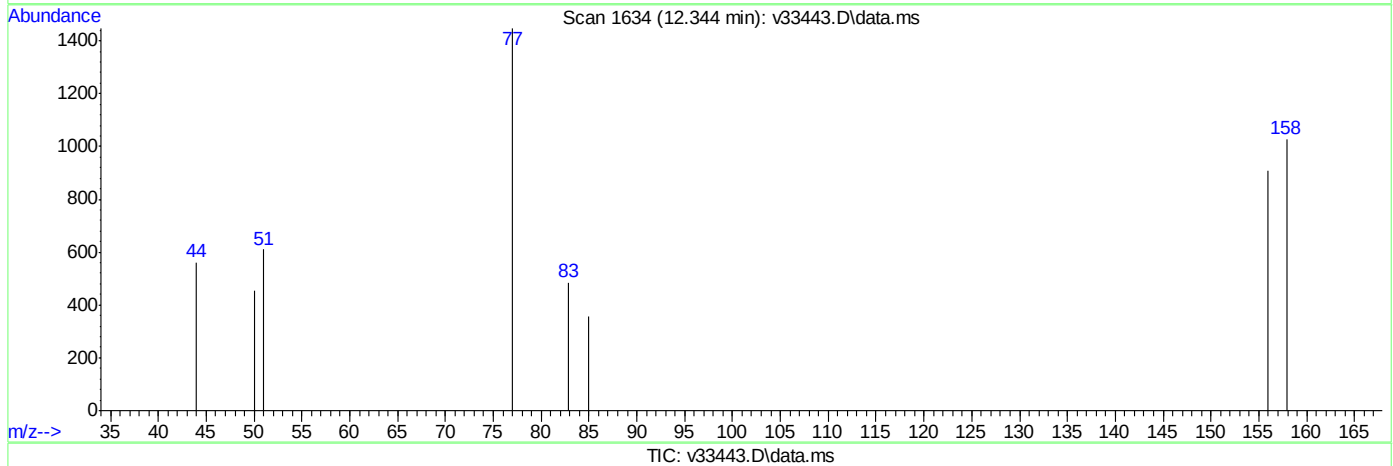
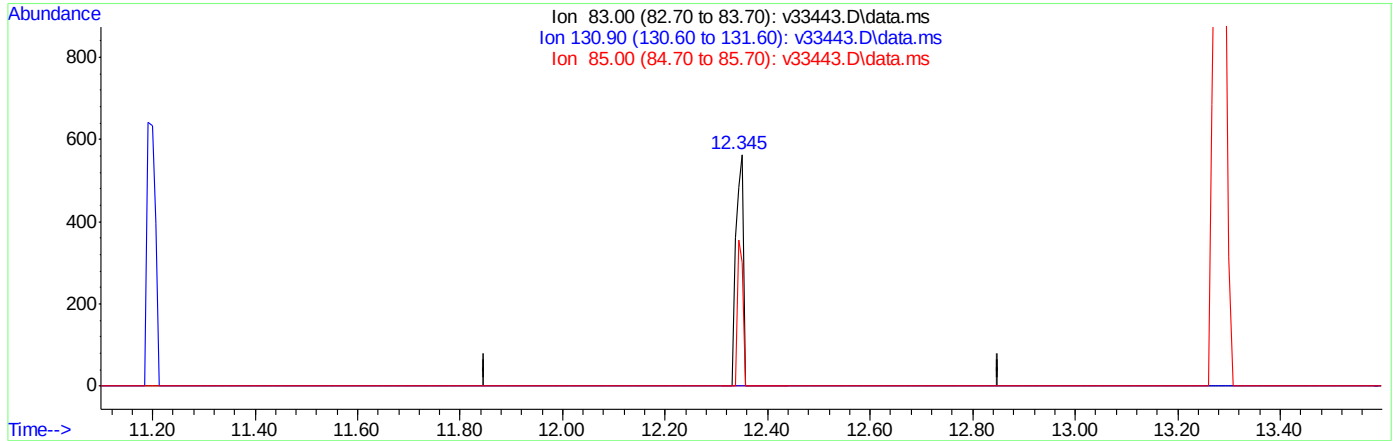
response 677

Ion	Exp%	Act%
130.90	100	100
132.90	94.50	99.68
118.90	62.80	68.45
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33443.D
Acq On : 1 Aug 2014 9:54 am
Operator : amym
Sample : ic1226-1
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 01 13:11:46 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



(84) 1,1,2,2-tetrachloroethane (P)

12.344min (-0.005) 0.69ug/L m

response 569

Ion	Exp%	Act%
83.00	100	100
130.90	12.80	0.00
85.00	66.90	73.35
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
 Data File : v33444.D
 Acq On : 1 Aug 2014 10:20 am
 Operator : amym
 Sample : ic1226-2
 Misc : MS32359,MSV1226,,,,5,1
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 01 13:20:07 2014
 Quant Method : C:\msdchem\1\METHODS\v140801w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Aug 01 13:11:19 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.495	65	44654	500.00	ug/L	# 0.00
4) pentafluorobenzene	6.538	168	167762	50.00	ug/L	0.00
43) 1,4-difluorobenzene	7.724	114	206215	50.00	ug/L	0.00
66) chlorobenzene-d5	11.069	82	80258	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	13.282	152	81374	50.00	ug/L	0.00

System Monitoring Compounds						
40) dibromofluoromethane (s)	0.000	113	0	0.00	ug/L	
Spiked Amount	50.000	Range	70 - 130	Recovery	=	0.00%#
60) toluene-d8 (s)	0.000	98	0	0.00	ug/L	
Spiked Amount	50.000	Range	70 - 130	Recovery	=	0.00%#
82) bromofluorobenzene (s)	0.000	95	0	0.00	ug/L	
Spiked Amount	50.000	Range	70 - 130	Recovery	=	0.00%#

Target Compounds						Qvalue
3) Ethanol	2.466	45	1735	243.20	ug/L	# 100
5) dichlorodifluoromethane	1.508	85	12898	1.75	ug/L	93
6) chloromethane	1.593	50	7407	1.76	ug/L	87
7) vinyl chloride	1.706	62	5920	1.41	ug/L	79
8) bromomethane	1.991	96	4867	1.87	ug/L	79
9) chloroethane	2.085	64	2416	1.63	ug/L	85
10) ethyl ether	2.584	59	2949	2.16	ug/L	93
11) acetonitrile	3.273	41	7533	2.08	ug/L	# 20
12) trichlorofluoromethane	2.326	101	7619	1.23	ug/L	98
13) freon-113	2.884	101	3484	1.10	ug/L	# 68
14) acrolein	2.730	56	1185	6.63	ug/L	92
15) 1,1-dichloroethene	2.842	96	4099	1.84	ug/L	92
17) Methyl Acetate	3.253	43	2261	2.34	ug/L	# 69
18) methylene chloride	3.438	84	5511	2.49	ug/L	99
19) methyl tert butyl ether	3.815	73	9172	2.37	ug/L	86
21) allyl chloride	3.273	41	7533	2.08	ug/L	99
22) trans-1,2-dichloroethene	3.809	96	4063	1.98	ug/L	92
23) iodomethane	3.011	142	12859	2.31	ug/L	99
24) carbon disulfide	3.094	76	10072	1.47	ug/L	97
26) vinyl acetate	4.557	43	10874	2.20	ug/L	94
27) chloroprene	4.594	53	4739	1.65	ug/L	95
28) di-isopropyl ether	4.580	45	14479	2.22	ug/L	98
31) Hexane	4.231	41	2350	1.20	ug/L	# 93
32) 1,1-dichloroethane	4.483	63	7932	2.14	ug/L	87
33) tert-butyl ethyl ether	5.243	59	9110	2.17	ug/L	93
34) isobutyl alcohol	4.557	43	10873	10.98	ug/L	75
35) 2,2-dichloropropane	5.519	77	2763	1.22	ug/L	52
36) cis-1,2-dichloroethene	5.503	96	3806	2.17	ug/L	82
37) ethyl acetate	4.557	43	10873m	2.20	ug/L	
38) bromochloromethane	5.927	128	1516	1.77	ug/L	91
39) chloroform	6.145	83	6791	2.19	ug/L	89
42) 1,1,1-trichloroethane	6.389	97	4525	1.52	ug/L	92
44) Cyclohexane	6.516	56	7117	2.34	ug/L	# 38
45) carbon tetrachloride	6.645	117	3496	1.26	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
 Data File : v33444.D
 Acq On : 1 Aug 2014 10:20 am
 Operator : amym
 Sample : ic1226-2
 Misc : MS32359,MSV1226,,,,,5,1
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 01 13:20:07 2014
 Quant Method : C:\msdchem\1\METHODS\v140801w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Aug 01 13:11:19 2014
 Response via : Initial Calibration

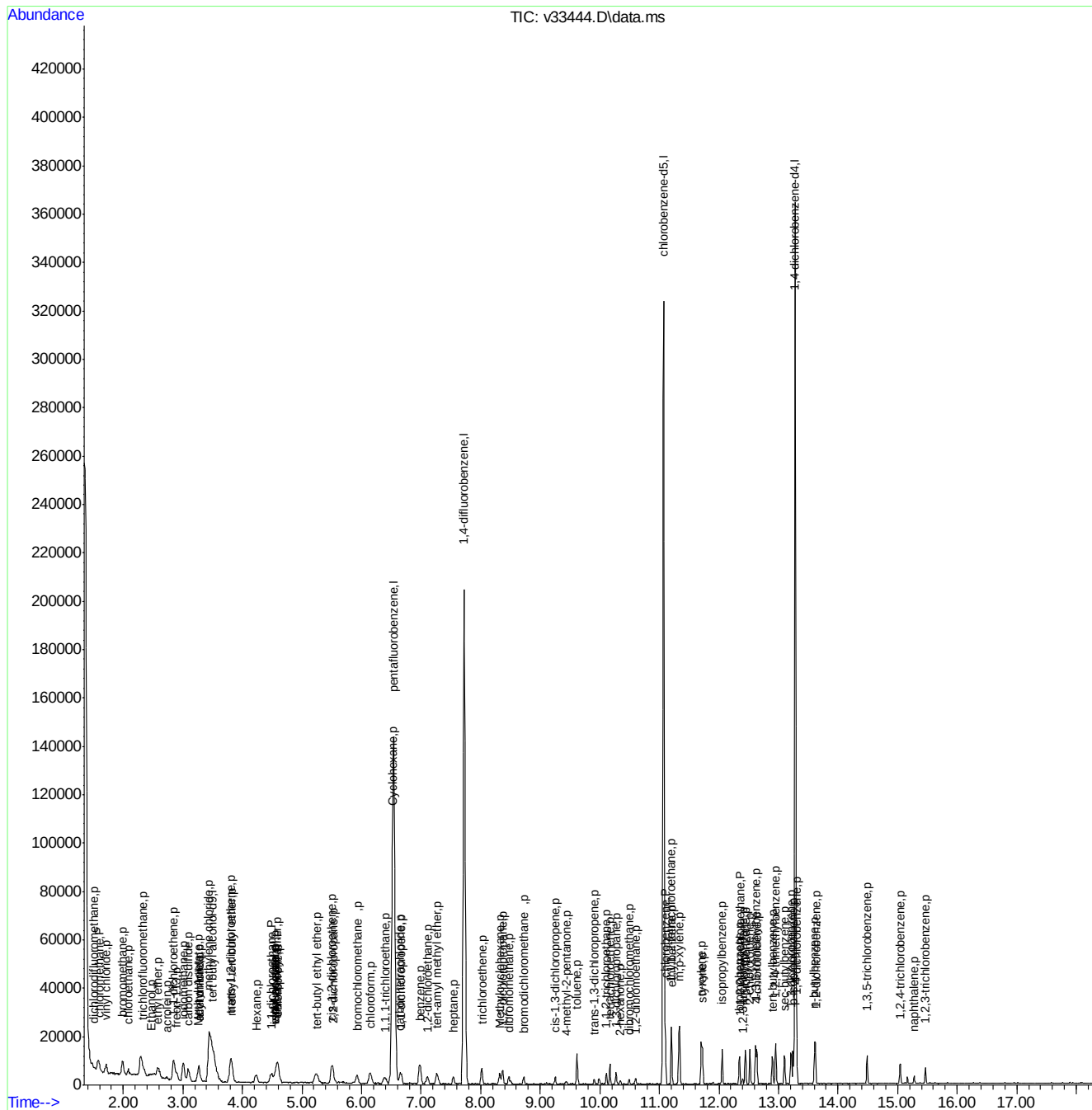
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) 1,1-dichloropropene	6.660	75	3052	1.55	ug/L #	68
47) benzene	6.980	78	11215	2.35	ug/L	96
48) 1,2-dichloroethane	7.106	62	4517	2.15	ug/L	83
49) tert-amyl methyl ether	7.268	73	4589	2.07	ug/L	94
50) heptane	7.542	43	2169	1.30	ug/L	93
51) trichloroethene	8.017	95	2933	2.08	ug/L	94
52) 1,2-dichloropropane	8.367	63	2881	2.11	ug/L	91
53) dibromomethane	8.471	93	1262	1.78	ug/L	96
54) bromodichloromethane	8.723	83	2823	1.85	ug/L	92
55) Methylcyclohexane	8.319	83	2236	1.16	ug/L	98
59) cis-1,3-dichloropropene	9.251	75	2245	1.62	ug/L	50
61) 4-methyl-2-pentanone	9.437	43	1311	1.65	ug/L #	49
62) toluene	9.616	92	5375	2.09	ug/L	97
63) trans-1,3-dichloropropene	9.905	75	1377	1.41	ug/L	50
64) 1,1,2-trichloroethane	10.109	83	1312	2.05	ug/L	91
67) tetrachloroethene	10.170	166	2324	1.69	ug/L	95
68) 1,3-dichloropropane	10.273	76	2735	2.22	ug/L	95
69) dibromochloromethane	10.492	129	1346	1.39	ug/L	76
70) 1,2-dibromoethane	10.601	107	1578	1.96	ug/L	97
71) 2-hexanone	10.346	43	1043	1.30	ug/L #	32
72) chlorobenzene	11.099	112	6657	2.23	ug/L	96
73) 1,1,1,2-tetrachloroethane	11.198	131	2005	1.51	ug/L	94
74) ethylbenzene	11.204	91	10670	2.03	ug/L	98
75) m,p-xylene	11.334	106	8169	4.05	ug/L	96
76) o-xylene	11.701	106	4174	2.02	ug/L	98
77) styrene	11.723	104	6173	1.98	ug/L	95
81) isopropylbenzene	12.054	105	9317	1.76	ug/L	97
83) bromobenzene	12.344	156	2722	2.09	ug/L	96
84) 1,1,2,2-tetrachloroethane	12.348	83	1535	1.86	ug/L	90
85) 1,2,3-trichloropropane	12.397	75	1448	1.52	ug/L	97
86) n-propylbenzene	12.443	91	10808	1.84	ug/L	96
87) 2-chlorotoluene	12.521	91	7790	2.15	ug/L	96
88) 4-chlorotoluene	12.634	91	8580	2.08	ug/L	98
89) 1,3,5-trimethylbenzene	12.612	105	8596	1.83	ug/L	96
90) tert-butylbenzene	12.897	91	3980	1.60	ug/L	96
91) 1,2,4-trimethylbenzene	12.953	105	9238	1.97	ug/L	99
92) sec-butylbenzene	13.101	105	8472	1.58	ug/L	100
93) 1,3-dichlorobenzene	13.209	146	5682	2.28	ug/L	97
94) p-isopropyltoluene	13.243	119	8018	1.65	ug/L	95
95) 1,4-dichlorobenzene	13.304	146	5738	2.29	ug/L	98
96) 1,2-dichlorobenzene	13.621	146	5600	2.35	ug/L	97
97) n-butylbenzene	13.607	91	6862	1.70	ug/L	100
99) 1,3,5-trichlorobenzene	14.488	180	3804	2.13	ug/L	90
100) 1,2,4-trichlorobenzene	15.043	180	3173	2.19	ug/L	90
102) naphthalene	15.277	128	3813	1.76	ug/L	100
103) 1,2,3-trichlorobenzene	15.465	180	2348	1.99	ug/L	96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33444.D
Acq On : 1 Aug 2014 10:20 am
Operator : amym
Sample : ic1226-2
Misc : MS32359,MSV1226,,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 01 13:20:07 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



v140801w.m Mon Aug 04 12:42:29 2014

Page: 3

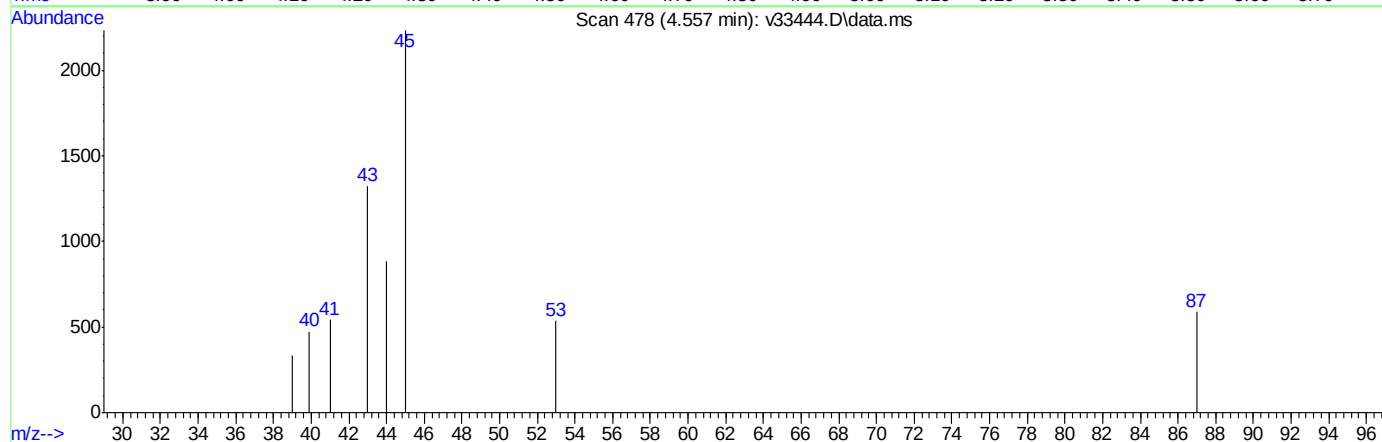
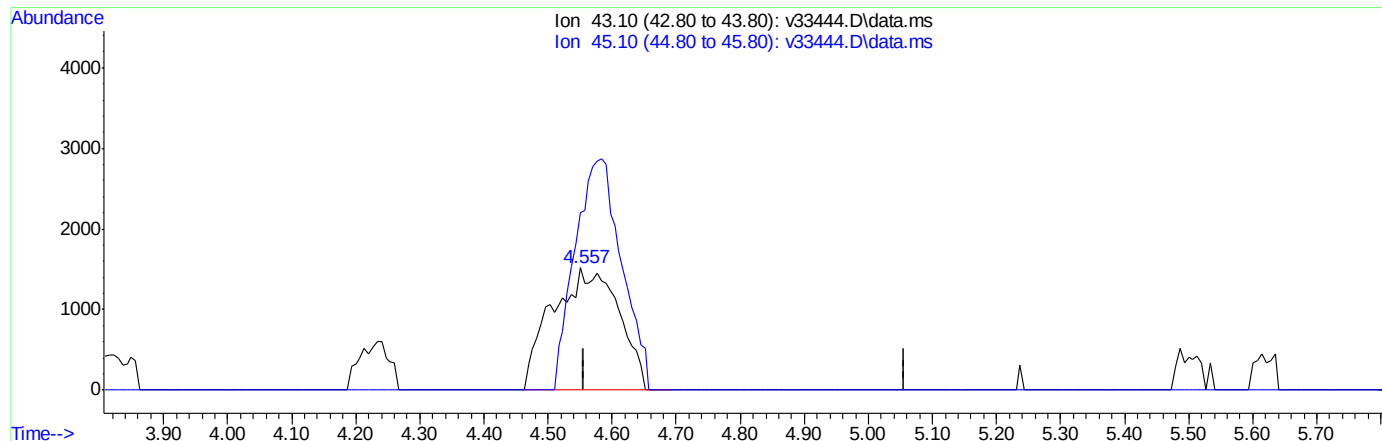
7.6.15



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33444.D
Acq On : 1 Aug 2014 10:20 am
Operator : amym
Sample : ic1226-2
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 01 13:11:49 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



TIC: v33444.D\data.ms

(37) ethyl acetate (p)

4.557min (-0.000) 2.20ug/L m

response 10873

Ion	Exp%	Act%
43.10	100	100
45.10	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
 Data File : v33445.D
 Acq On : 1 Aug 2014 10:46 am
 Operator : amym
 Sample : ic1226-5
 Misc : MS32359,MSV1226,,,,5,1
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 01 13:23:07 2014
 Quant Method : C:\msdchem\1\METHODS\v140801w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Aug 01 13:11:19 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.500	65	46841	500.00	ug/L	# 0.00
4) pentafluorobenzene	6.541	168	176221	50.00	ug/L	0.00
43) 1,4-difluorobenzene	7.726	114	215912	50.00	ug/L	0.00
66) chlorobenzene-d5	11.069	82	83533	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	13.282	152	84819	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	6.420	113	8337	4.48	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	8.96%#		
60) toluene-d8 (s)	9.541	98	18591	4.56	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	9.12%#		
82) bromofluorobenzene (s)	12.219	95	7163	4.79	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	9.58%#		
Target Compounds						
2) tertiary butyl alcohol	3.598	59	3204	40.68	ug/L	# 61
3) Ethanol	2.487	45	4914	656.66	ug/L	# 100
5) dichlorodifluoromethane	1.485	85	43513m	5.63	ug/L	
6) chloromethane	1.597	50	24266	5.48	ug/L	95
7) vinyl chloride	1.712	62	24080	5.47	ug/L	92
8) bromomethane	1.997	96	15182	5.56	ug/L	90
9) chloroethane	2.093	64	9200	5.90	ug/L	93
10) ethyl ether	2.590	59	8529	5.96	ug/L	94
11) acetonitrile	3.276	41	18179	4.78	ug/L	# 27
12) trichlorofluoromethane	2.331	101	36410	5.61	ug/L	98
13) freon-113	2.893	101	13463	4.06	ug/L	84
14) acrolein	2.738	56	4769	25.41	ug/L	92
15) 1,1-dichloroethene	2.849	96	11767	5.03	ug/L	96
16) acetone	2.883	58	1259	3.85	ug/L	# 65
17) Methyl Acetate	3.263	43	5404	5.33	ug/L	# 69
18) methylene chloride	3.444	84	12593	5.41	ug/L	87
19) methyl tert butyl ether	3.819	73	20689	5.08	ug/L	90
20) acrylonitrile	3.748	53	2447	4.26	ug/L	83
21) allyl chloride	3.276	41	18181	4.78	ug/L	93
22) trans-1,2-dichloroethene	3.815	96	10824	5.03	ug/L	91
23) iodomethane	3.016	142	31033	5.30	ug/L	100
24) carbon disulfide	3.099	76	28576	3.98	ug/L	96
26) vinyl acetate	4.561	43	24371	4.69	ug/L	94
27) chloroprene	4.600	53	13690	4.54	ug/L	98
28) di-isopropyl ether	4.584	45	32983	4.81	ug/L	97
29) methacrylonitrile	5.890	41	2813	4.02	ug/L	# 70
31) Hexane	4.232	41	9091	4.43	ug/L	# 91
32) 1,1-dichloroethane	4.487	63	19704	5.06	ug/L	100
33) tert-butyl ethyl ether	5.248	59	20564	4.67	ug/L	98
34) isobutyl alcohol	4.561	43	24371	23.42	ug/L	93
35) 2,2-dichloropropane	5.522	77	8927	3.76	ug/L	99
36) cis-1,2-dichloroethene	5.507	96	9488	5.16	ug/L	98
37) ethyl acetate	4.564	43	24370m	4.68	ug/L	
38) bromochloromethane	5.930	128	4165	4.62	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
 Data File : v33445.D
 Acq On : 1 Aug 2014 10:46 am
 Operator : amym
 Sample : ic1226-5
 Misc : MS32359,MSV1226,,,,5,1
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 01 13:23:07 2014
 Quant Method : C:\msdchem\1\METHODS\v140801w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Aug 01 13:11:19 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) chloroform	6.148	83	16578	5.08	ug/L	88
41) Tetrahydrofuran	5.938	42	148m	0.59	ug/L	
42) 1,1,1-trichloroethane	6.393	97	12855	4.11	ug/L	98
44) Cyclohexane	6.508	56	16228	5.11	ug/L #	88
45) carbon tetrachloride	6.648	117	10468	3.60	ug/L	85
46) 1,1-dichloropropene	6.663	75	9406	4.57	ug/L	91
47) benzene	6.983	78	25996	5.20	ug/L	99
48) 1,2-dichloroethane	7.107	62	11221	5.11	ug/L	83
49) tert-amyl methyl ether	7.272	73	10664	4.60	ug/L	95
50) heptane	7.544	43	7128	4.07	ug/L	97
51) trichloroethene	8.019	95	7337	4.96	ug/L	97
52) 1,2-dichloropropane	8.369	63	7082	4.96	ug/L	91
53) dibromomethane	8.473	93	3641	4.90	ug/L	96
54) bromodichloromethane	8.725	83	6746	4.21	ug/L	94
55) Methylcyclohexane	8.323	83	7971	3.96	ug/L #	95
56) 2-chloroethyl vinyl ether	9.101	63	1520	3.97	ug/L #	46
57) methyl methacrylate	8.502	69	1454	3.59	ug/L #	76
59) cis-1,3-dichloropropene	9.253	75	5637	3.89	ug/L	95
61) 4-methyl-2-pentanone	9.437	43	3461	4.16	ug/L #	49
62) toluene	9.617	92	13545	5.04	ug/L	98
63) trans-1,3-dichloropropene	9.905	75	3667	3.58	ug/L	93
64) 1,1,2-trichloroethane	10.110	83	3193	4.76	ug/L	96
65) ethyl methacrylate	9.988	69	2897	3.37	ug/L	87
67) tetrachloroethene	10.170	166	6450	4.51	ug/L	90
68) 1,3-dichloropropane	10.273	76	6452	5.04	ug/L	96
69) dibromochloromethane	10.493	129	3732	3.71	ug/L	96
70) 1,2-dibromoethane	10.602	107	3752	4.47	ug/L	98
71) 2-hexanone	10.348	43	3088	3.69	ug/L	95
72) chlorobenzene	11.099	112	15835	5.09	ug/L	98
73) 1,1,1,2-tetrachloroethane	11.199	131	5290	3.83	ug/L	97
74) ethylbenzene	11.204	91	26320	4.81	ug/L	99
75) m,p-xylene	11.335	106	19660	9.37	ug/L	97
76) o-xylene	11.702	106	10208	4.74	ug/L	99
77) styrene	11.723	104	15603	4.81	ug/L	92
78) bromoform	11.896	173	1417	2.93	ug/L	92
79) trans-1,4-dichloro-2-b...	12.115	53	920m	3.48	ug/L	
81) isopropylbenzene	12.054	105	24423	4.43	ug/L	100
83) bromobenzene	12.344	156	6843	5.03	ug/L	93
84) 1,1,2,2-tetrachloroethane	12.348	83	4006	4.67	ug/L	95
85) 1,2,3-trichloropropane	12.397	75	3499	3.53	ug/L	71
86) n-propylbenzene	12.443	91	28376	4.64	ug/L	99
87) 2-chlorotoluene	12.521	91	18675	4.95	ug/L	99
88) 4-chlorotoluene	12.634	91	21377	4.98	ug/L	100
89) 1,3,5-trimethylbenzene	12.612	105	22754	4.64	ug/L	98
90) tert-butylbenzene	12.898	91	10857	4.18	ug/L	91
91) 1,2,4-trimethylbenzene	12.953	105	22809	4.67	ug/L	99
92) sec-butylbenzene	13.101	105	24173	4.32	ug/L	98
93) 1,3-dichlorobenzene	13.209	146	13204	5.09	ug/L	97
94) p-isopropyltoluene	13.242	119	22012	4.36	ug/L	98
95) 1,4-dichlorobenzene	13.304	146	13414	5.14	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33445.D
Acq On : 1 Aug 2014 10:46 am
Operator : amym
Sample : ic1226-5
Misc : MS32359,MSV1226,,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 01 13:23:07 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration

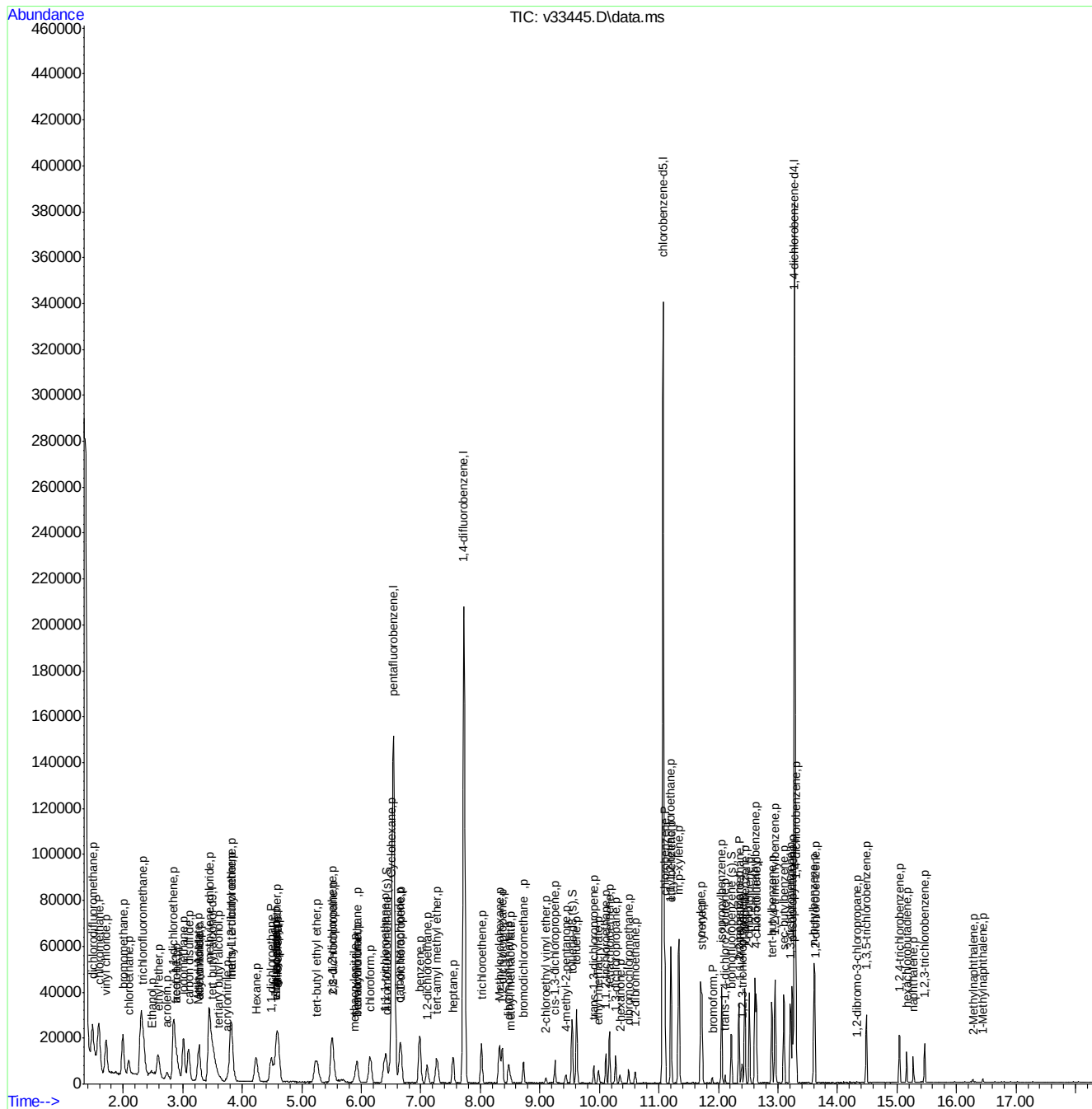
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) 1,2-dichlorobenzene	13.621	146	12610	5.08	ug/L	97
97) n-butylbenzene	13.607	91	18578	4.42	ug/L	99
98) 1,2-dibromo-3-chloropr...	14.325	75	124m	1.18	ug/L	
99) 1,3,5-trichlorobenzene	14.487	180	9303	5.00	ug/L	98
100) 1,2,4-trichlorobenzene	15.043	180	7066	4.67	ug/L	98
101) hexachlorobutadiene	15.164	225	2965	5.08	ug/L	99
102) naphthalene	15.276	128	8909	3.95	ug/L	100
103) 1,2,3-trichlorobenzene	15.466	180	5743	4.68	ug/L	98
104) 2-Methylnaphthalene	16.278	142	901m	1.14	ug/L	
105) 1-Methylnaphthalene	16.447	142	817m	1.24	ug/L	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33445.D
Acq On : 1 Aug 2014 10:46 am
Operator : amym
Sample : ic1226-5
Misc : MS32359,MSV1226,,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 01 13:23:07 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



v140801w.m Mon Aug 04 12:42:34 2014

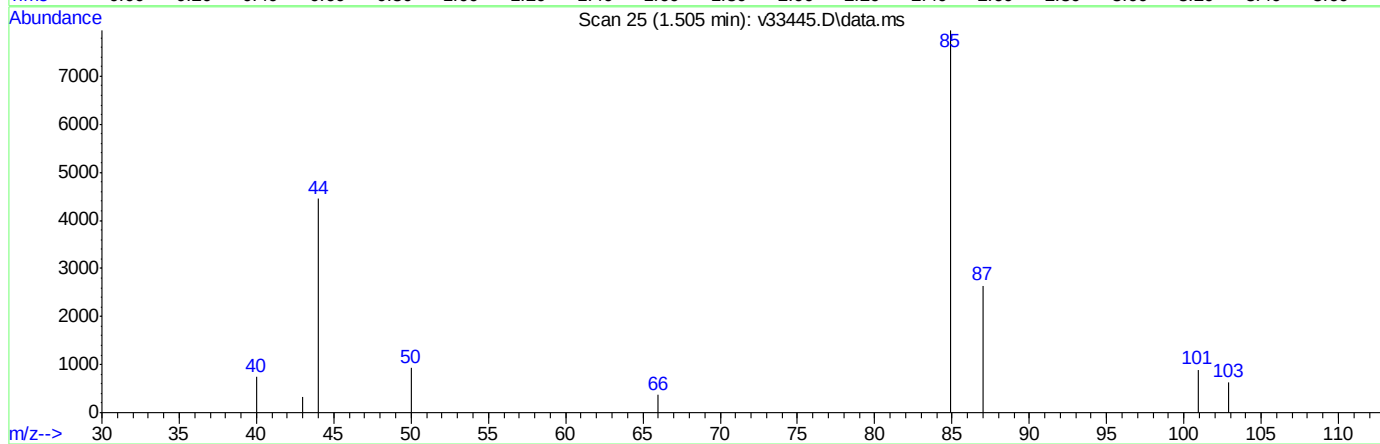
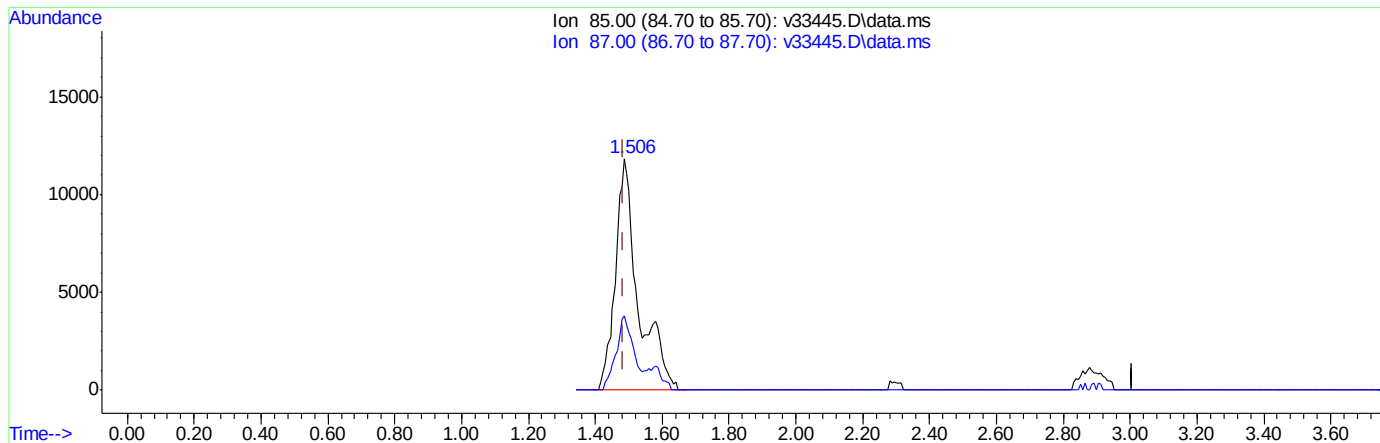
Page: 4

7.6.16

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33445.D
Acq On : 1 Aug 2014 10:46 am
Operator : amym
Sample : ic1226-5
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 01 13:11:52 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



TIC: v33445.D\data.ms

(5) dichlorodifluoromethane (p)

1.506min (+0.021) 7.20ug/L

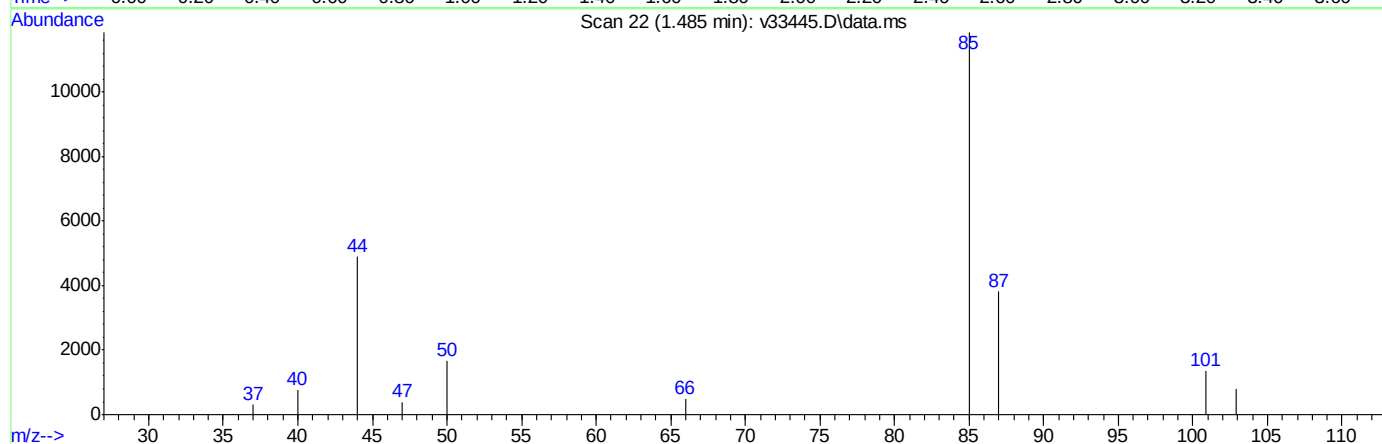
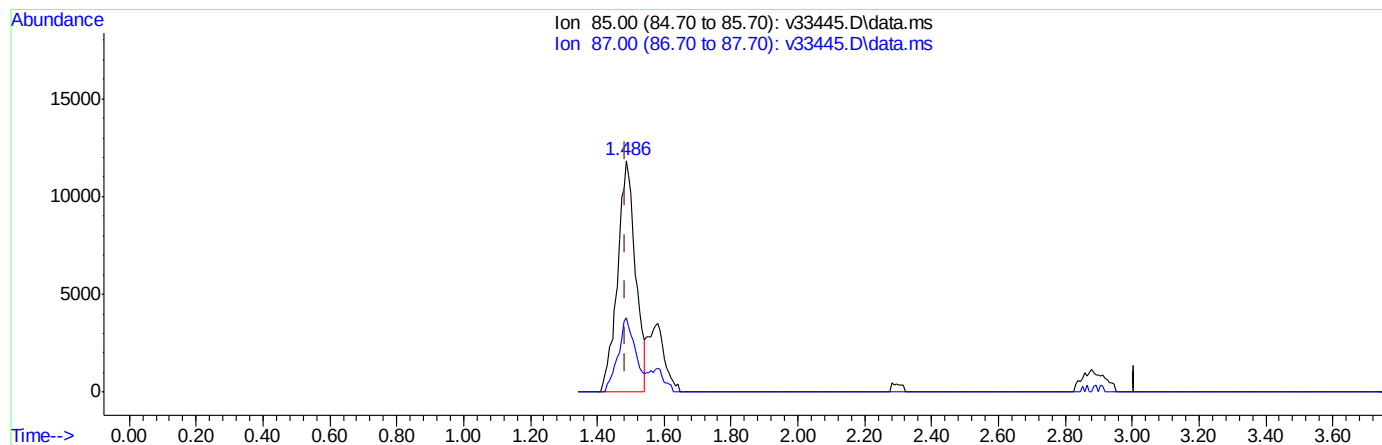
response 55635

Ion	Exp%	Act%
85.00	100	100
87.00	33.00	33.27
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33445.D
Acq On : 1 Aug 2014 10:46 am
Operator : amym
Sample : ic1226-5
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 01 13:11:52 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



TIC: v33445.D\data.ms

(5) dichlorodifluoromethane (p)

1.485min (+0.000) 5.63ug/L m

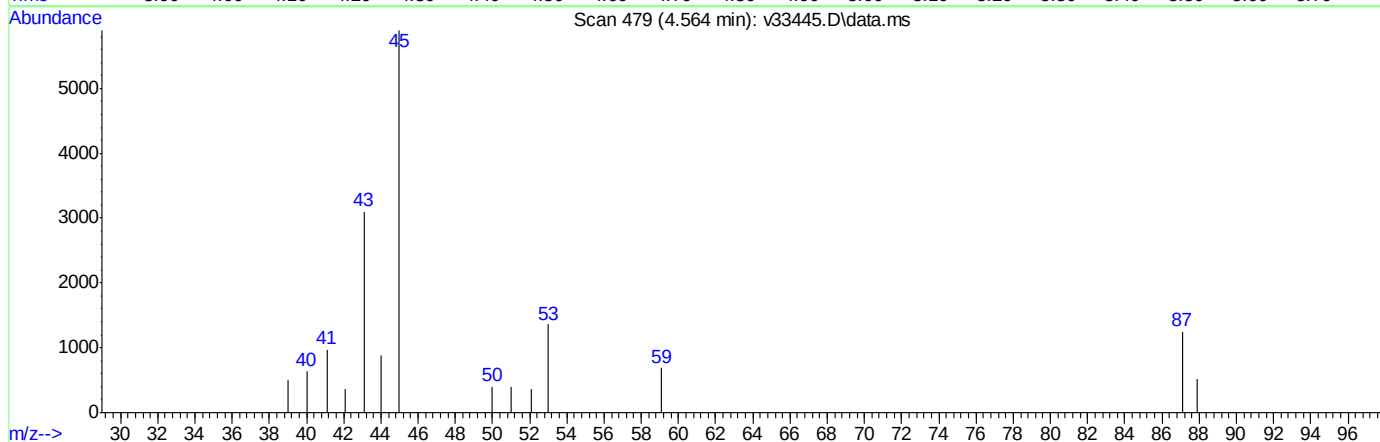
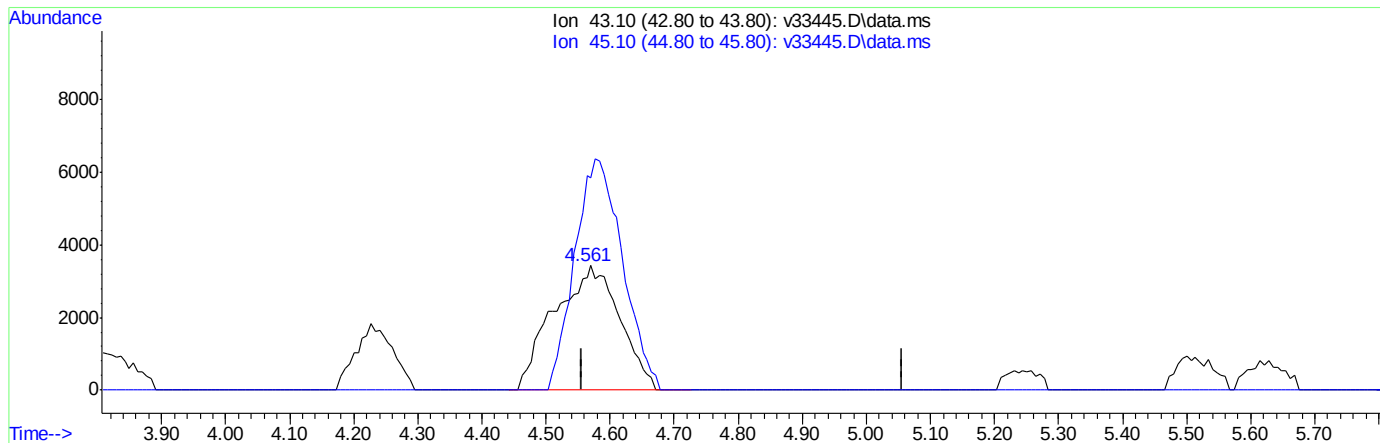
response 43513

Ion	Exp%	Act%
85.00	100	100
87.00	33.00	32.14
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33445.D
Acq On : 1 Aug 2014 10:46 am
Operator : amym
Sample : ic1226-5
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 01 13:11:52 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



TIC: v33445.D\data.ms

(37) ethyl acetate (p)

4.564min (+0.007) 4.68ug/L m

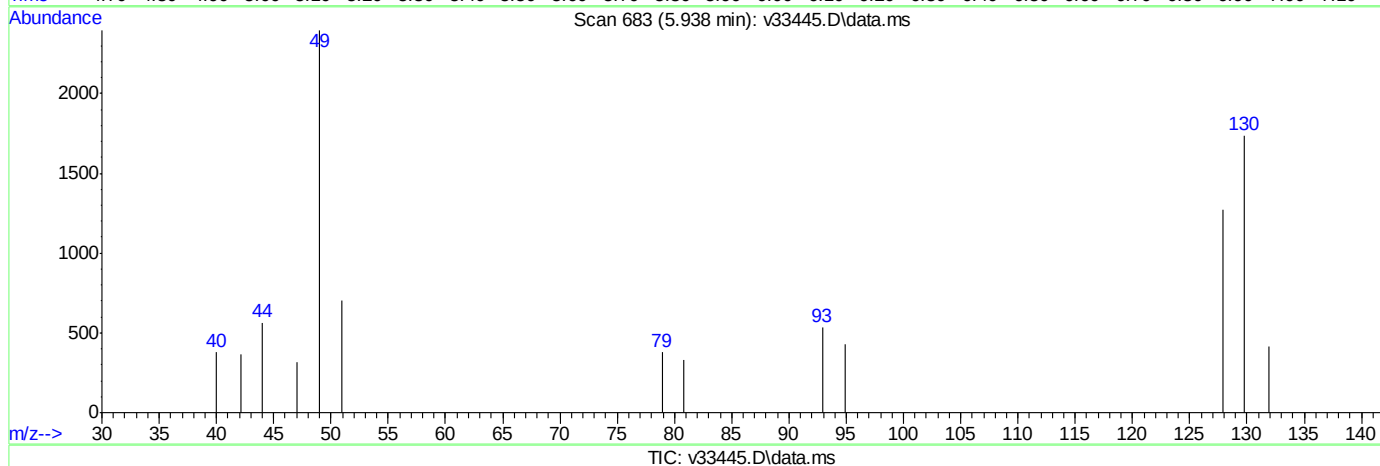
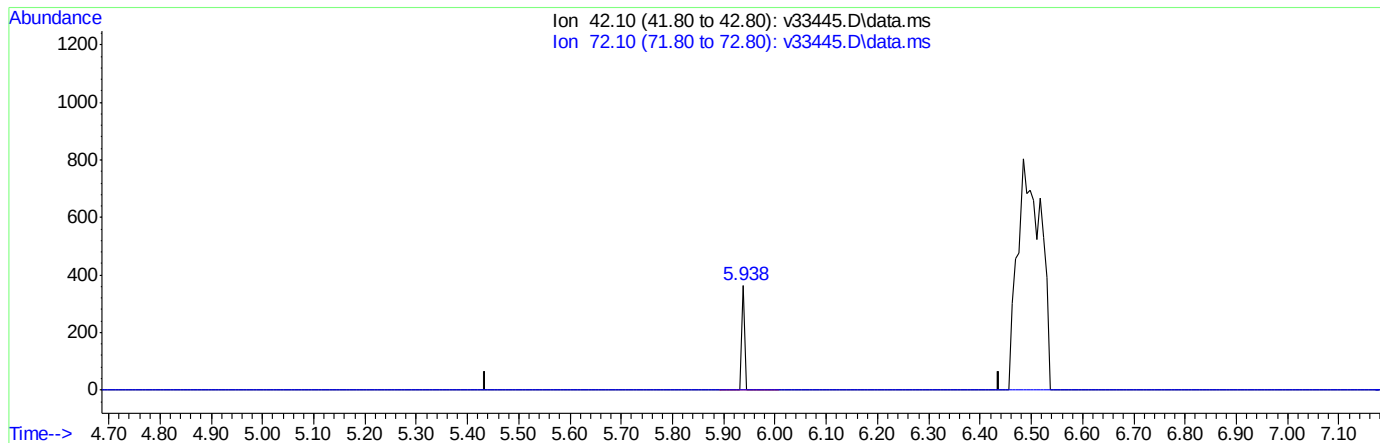
response 24370

Ion	Exp%	Act%
43.10	100	100
45.10	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33445.D
Acq On : 1 Aug 2014 10:46 am
Operator : amym
Sample : ic1226-5
Misc : MS32359,MSV1226,,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 01 13:11:52 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



(41) Tetrahydrofuran (p)

5.938min (+0.001) 0.59ug/L m

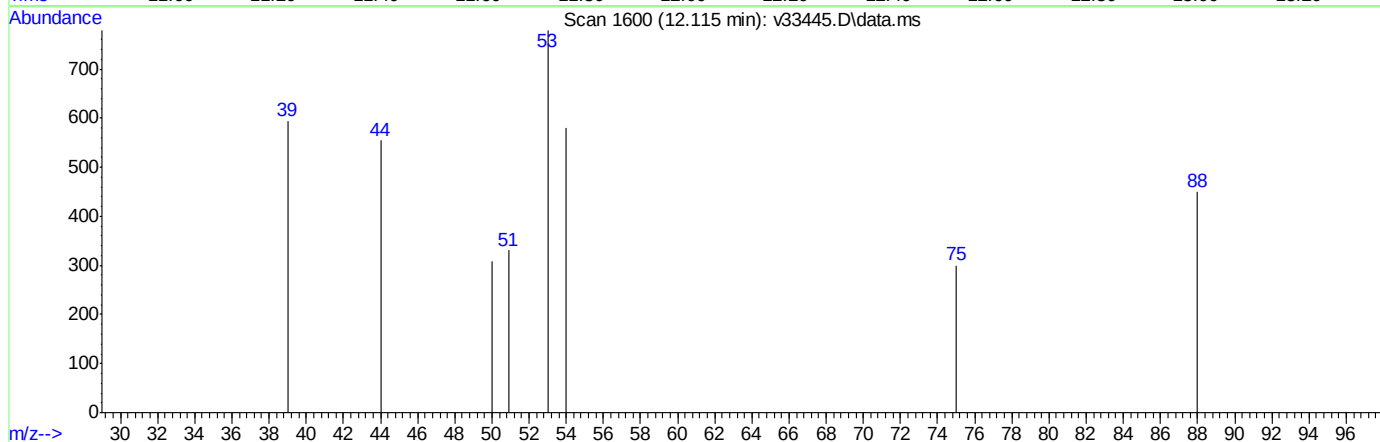
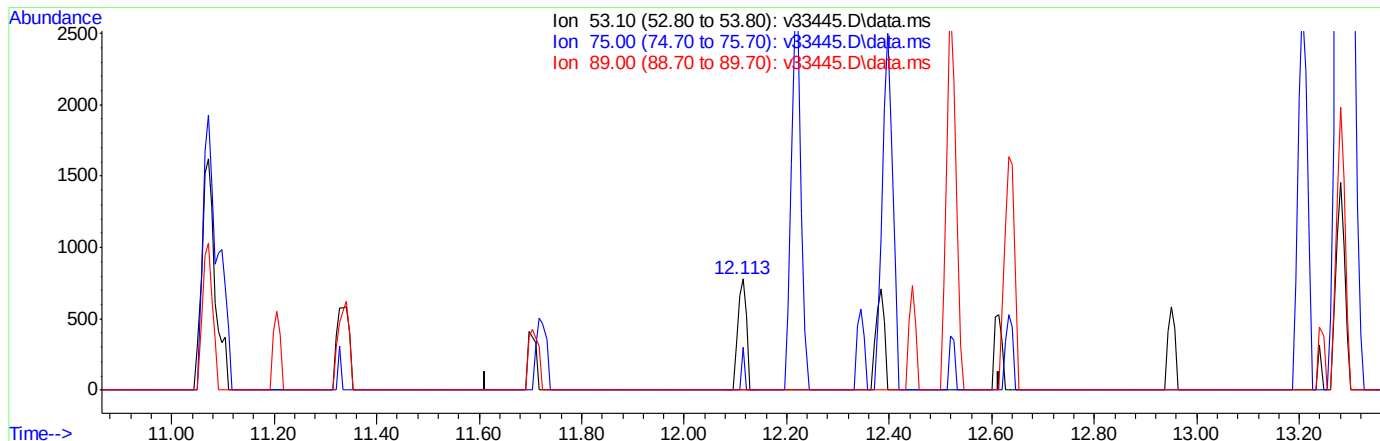
response 148

Ion	Exp%	Act%
42.10	100	100
72.10	28.80	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33445.D
Acq On : 1 Aug 2014 10:46 am
Operator : amym
Sample : ic1226-5
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 01 13:11:52 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



(79) trans-1,4-dichloro-2-butene (p)

12.115min (+0.001) 3.48ug/L m

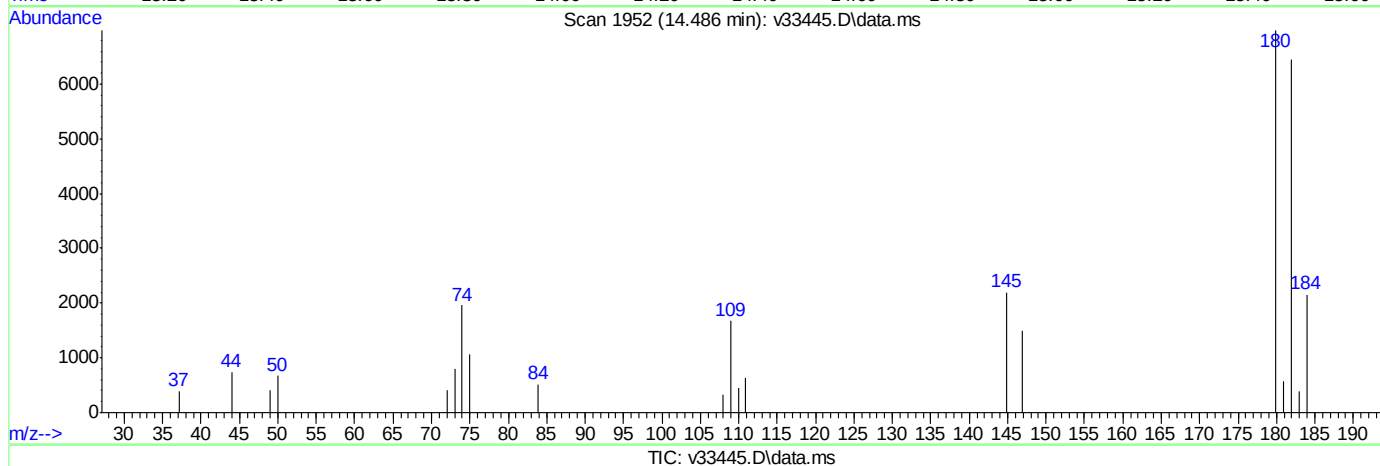
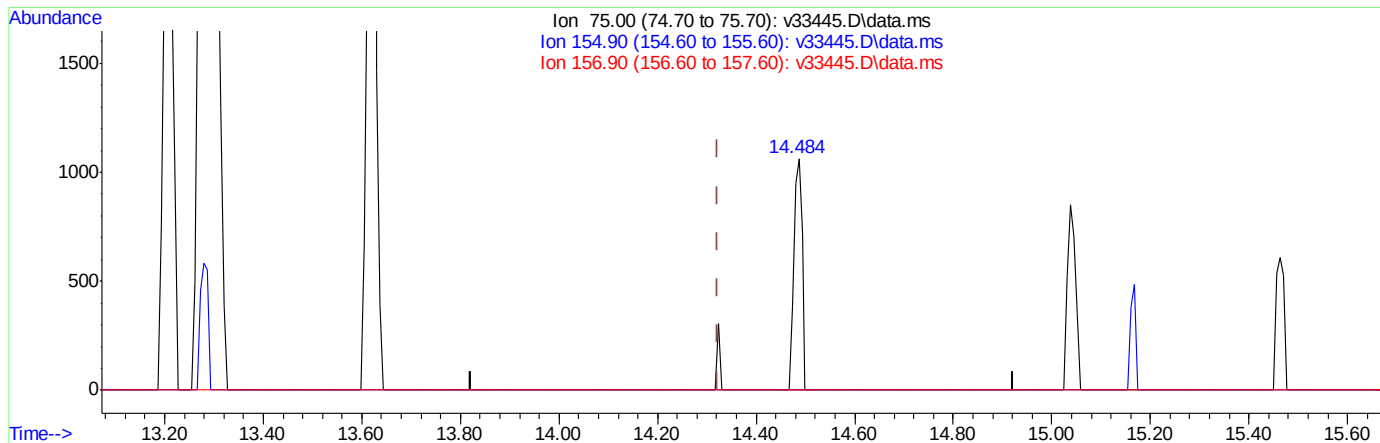
response 920

Ion	Exp%	Act%
53.10	100	100
75.00	49.10	38.51
89.00	23.20	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33445.D
Acq On : 1 Aug 2014 10:46 am
Operator : amym
Sample : ic1226-5
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 01 13:11:52 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



(98) 1,2-dibromo-3-chloropropane (p)

14.484min (+0.162) 11.99ug/L

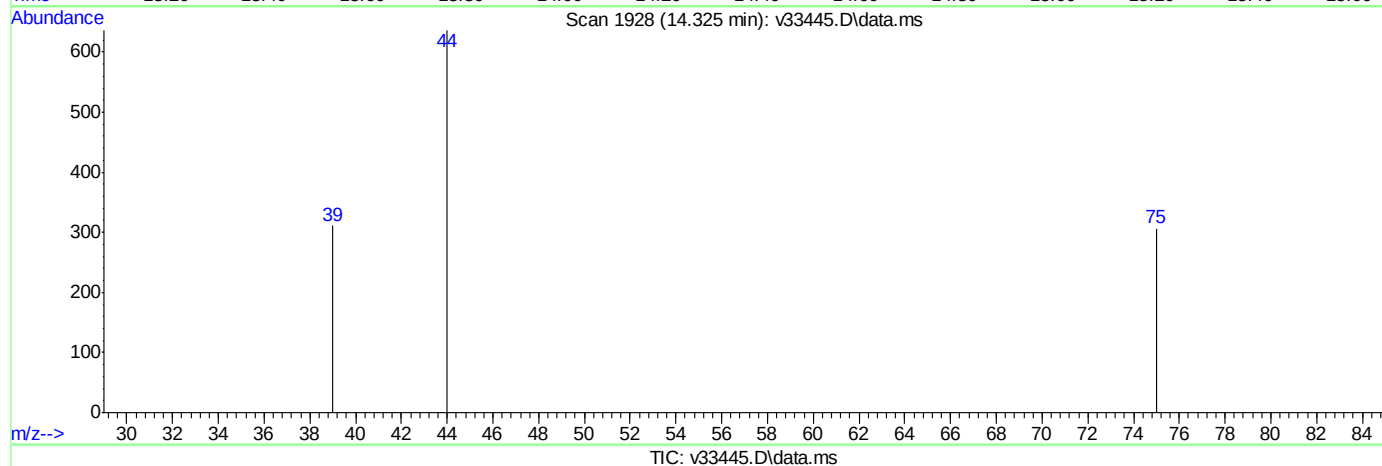
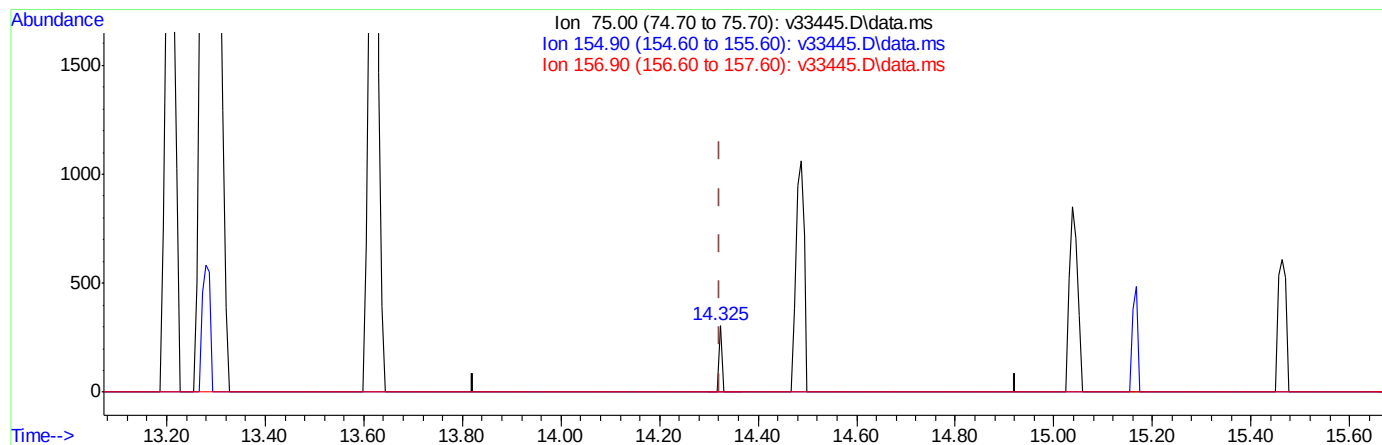
response 1258

Ion	Exp%	Act%
75.00	100	100
154.90	83.60	0.00#
156.90	101.10	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33445.D
Acq On : 1 Aug 2014 10:46 am
Operator : amym
Sample : ic1226-5
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 01 13:11:52 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



(98) 1,2-dibromo-3-chloropropane (p)

14.325min (+0.002) 1.18ug/L m

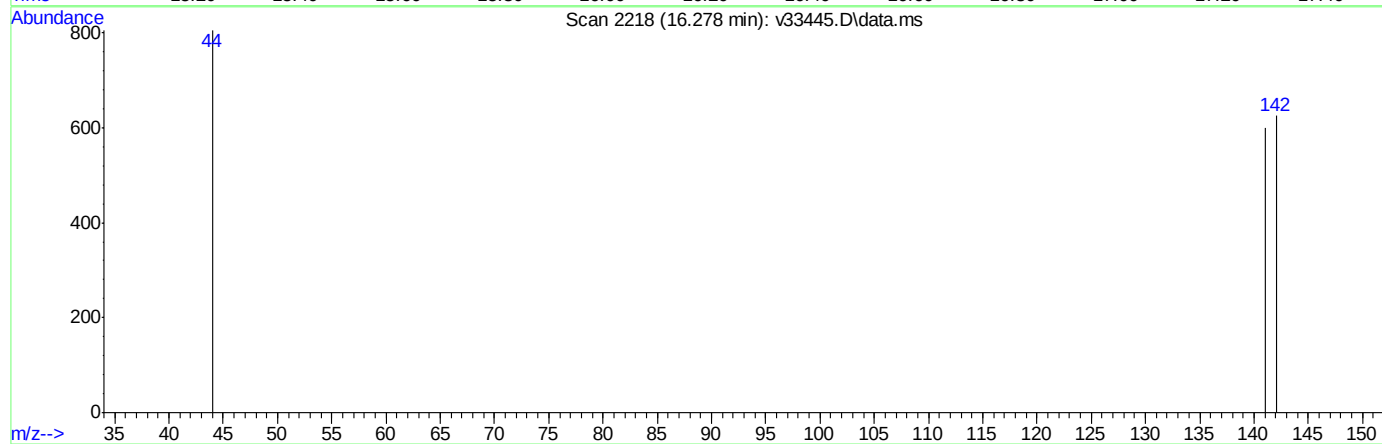
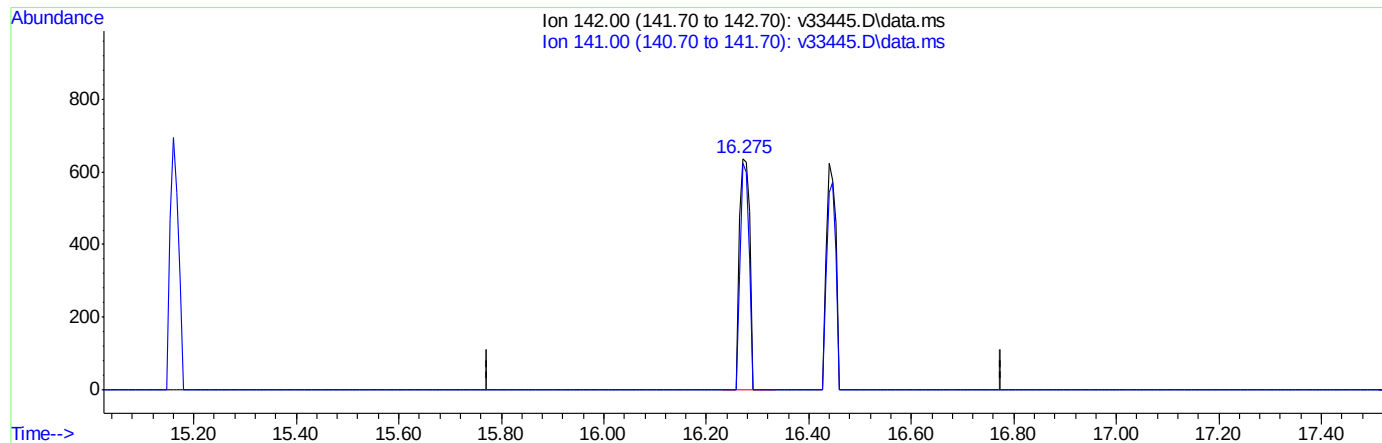
response 124

Ion	Exp%	Act%
75.00	100	100
154.90	83.60	0.00#
156.90	101.10	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33445.D
Acq On : 1 Aug 2014 10:46 am
Operator : amym
Sample : ic1226-5
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 01 13:11:52 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



TIC: v33445.D\data.ms

(104) 2-Methylnaphthalene (p)

16.278min (+0.004) 1.14ug/L m

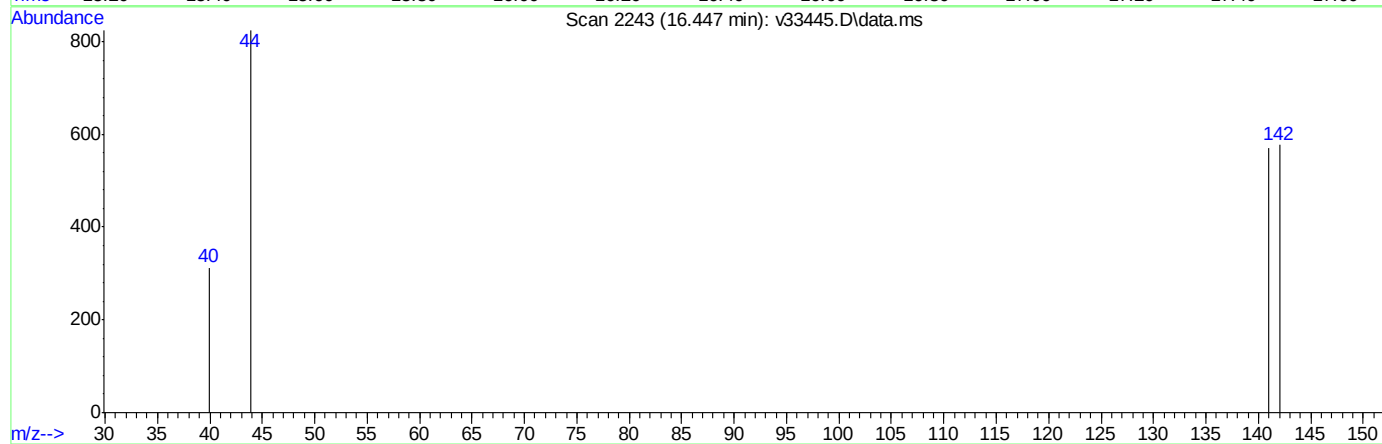
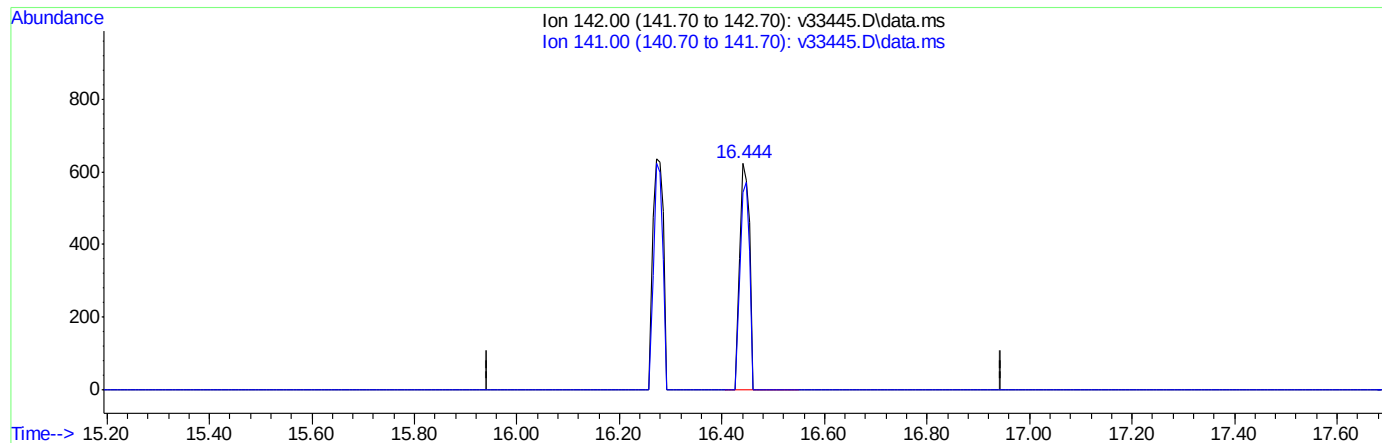
response 901

Ion	Exp%	Act%
142.00	100	100
141.00	87.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33445.D
Acq On : 1 Aug 2014 10:46 am
Operator : amym
Sample : ic1226-5
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 01 13:11:52 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



(105) 1-Methylnaphthalene (p)

16.447min (+0.003) 1.24ug/L m

response 817

Ion	Exp%	Act%
142.00	100	100
141.00	89.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
 Data File : v33446.D
 Acq On : 1 Aug 2014 11:12 am
 Operator : amym
 Sample : ic1226-10
 Misc : MS32359,MSV1226,,,,5,1
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 01 13:24:35 2014
 Quant Method : C:\msdchem\1\METHODS\v140801w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Aug 01 13:11:19 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.502	65	47933	500.00	ug/L	# 0.00
4) pentafluorobenzene	6.543	168	181369	50.00	ug/L	0.00
43) 1,4-difluorobenzene	7.727	114	223415	50.00	ug/L	0.00
66) chlorobenzene-d5	11.070	82	85138	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	13.283	152	87630	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	6.422	113	18997	9.91	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	19.82%#		
60) toluene-d8 (s)	9.542	98	42040	9.96	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	19.92%#		
82) bromofluorobenzene (s)	12.219	95	15772	10.22	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	20.44%#		
Target Compounds						
2) tertiary butyl alcohol	3.604	59	7426	92.13	ug/L	85
3) Ethanol	2.487	45	8865	1157.65	ug/L	# 100
5) dichlorodifluoromethane	1.492	85	91439m	11.49	ug/L	
6) chloromethane	1.602	50	53042	11.64	ug/L	98
7) vinyl chloride	1.716	62	54644	12.06	ug/L	98
8) bromomethane	2.001	96	34132	12.15	ug/L	97
9) chloroethane	2.096	64	19944	12.42	ug/L	97
10) ethyl ether	2.593	59	17632	11.97	ug/L	91
11) acetonitrile	3.278	41	36949	9.45	ug/L	# 24
12) trichlorofluoromethane	2.335	101	79976	11.98	ug/L	97
13) freon-113	2.894	101	23535	6.89	ug/L	99
14) acrolein	2.741	56	11387	58.94	ug/L	92
15) 1,1-dichloroethene	2.852	96	21246	8.83	ug/L	99
16) acetone	2.888	58	2789	8.29	ug/L	# 85
17) Methyl Acetate	3.265	43	11212	10.74	ug/L	# 92
18) methylene chloride	3.448	84	26005	10.85	ug/L	88
19) methyl tert butyl ether	3.822	73	42069	10.04	ug/L	98
20) acrylonitrile	3.760	53	5667	9.59	ug/L	89
21) allyl chloride	3.278	41	36949	9.45	ug/L	90
22) trans-1,2-dichloroethene	3.817	96	21687	9.79	ug/L	98
23) iodomethane	3.019	142	62621	10.40	ug/L	97
24) carbon disulfide	3.103	76	57182	7.74	ug/L	97
25) propionitrile	5.621	54	256m	1.79	ug/L	
26) vinyl acetate	4.562	43	50218	9.38	ug/L	94
27) chloroprene	4.602	53	26064	8.40	ug/L	97
28) di-isopropyl ether	4.586	45	67937	9.62	ug/L	95
29) methacrylonitrile	5.897	41	6940	9.63	ug/L	92
30) 2-butanone	5.513	72	713m	4.73	ug/L	
31) Hexane	4.233	41	15961	7.56	ug/L	89
32) 1,1-dichloroethane	4.489	63	39753	9.93	ug/L	99
33) tert-butyl ethyl ether	5.250	59	42355	9.34	ug/L	96
34) isobutyl alcohol	4.562	43	50218	46.90	ug/L	85
35) 2,2-dichloropropane	5.526	77	17472	7.16	ug/L	99
36) cis-1,2-dichloroethene	5.511	96	18604	9.83	ug/L	93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
 Data File : v33446.D
 Acq On : 1 Aug 2014 11:12 am
 Operator : amym
 Sample : ic1226-10
 Misc : MS32359,MSV1226,,,,5,1
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 01 13:24:35 2014
 Quant Method : C:\msdchem\1\METHODS\v140801w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Aug 01 13:11:19 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) ethyl acetate	4.564	43	50218m	9.38	ug/L	
38) bromochloromethane	5.932	128	9148	9.86	ug/L	90
39) chloroform	6.151	83	33301	9.92	ug/L	98
41) Tetrahydrofuran	5.939	42	2114	8.19	ug/L	46
42) 1,1,1-trichloroethane	6.395	97	24982	7.76	ug/L	98
44) Cyclohexane	6.507	56	25281	7.69	ug/L #	86
45) carbon tetrachloride	6.648	117	20477	6.81	ug/L	99
46) 1,1-dichloropropene	6.665	75	17641	8.29	ug/L	96
47) benzene	6.984	78	50450	9.75	ug/L	98
48) 1,2-dichloroethane	7.109	62	22384	9.85	ug/L	98
49) tert-amyl methyl ether	7.273	73	22015	9.17	ug/L	93
50) heptane	7.545	43	13633	7.53	ug/L	89
51) trichloroethene	8.020	95	14008	9.16	ug/L	97
52) 1,2-dichloropropane	8.370	63	13863	9.38	ug/L	91
53) dibromomethane	8.475	93	7368	9.59	ug/L	88
54) bromodichloromethane	8.725	83	13924	8.40	ug/L	97
55) Methylcyclohexane	8.324	83	14625	7.03	ug/L	97
56) 2-chloroethyl vinyl ether	9.102	63	3611	9.12	ug/L	96
57) methyl methacrylate	8.504	69	3200	7.63	ug/L #	76
59) cis-1,3-dichloropropene	9.253	75	12386	8.26	ug/L	95
61) 4-methyl-2-pentanone	9.441	43	7313	8.49	ug/L #	94
62) toluene	9.618	92	26675	9.59	ug/L	99
63) trans-1,3-dichloropropene	9.906	75	7858	7.42	ug/L	100
64) 1,1,2-trichloroethane	10.111	83	6559	9.45	ug/L	96
65) ethyl methacrylate	9.988	69	6422	7.22	ug/L	88
67) tetrachloroethene	10.171	166	11916	8.17	ug/L	98
68) 1,3-dichloropropane	10.273	76	12325	9.45	ug/L	100
69) dibromochloromethane	10.494	129	7720	7.53	ug/L	93
70) 1,2-dibromoethane	10.603	107	7646	8.93	ug/L	95
71) 2-hexanone	10.349	43	6731	7.90	ug/L	97
72) chlorobenzene	11.099	112	30858	9.73	ug/L	97
73) 1,1,1,2-tetrachloroethane	11.200	131	11145	7.91	ug/L	97
74) ethylbenzene	11.205	91	51716	9.26	ug/L	100
75) m,p-xylene	11.336	106	39515	18.48	ug/L	100
76) o-xylene	11.702	106	19703	8.98	ug/L	93
77) styrene	11.724	104	30816	9.32	ug/L	100
78) bromoform	11.897	173	3486	7.08	ug/L	95
79) trans-1,4-dichloro-2-b...	12.115	53	2153	7.99	ug/L	87
81) isopropylbenzene	12.055	105	49278	8.66	ug/L	100
83) bromobenzene	12.345	156	13497	9.61	ug/L	98
84) 1,1,2,2-tetrachloroethane	12.349	83	8218	9.27	ug/L	99
85) 1,2,3-trichloropropane	12.398	75	7252	7.08	ug/L	64
86) n-propylbenzene	12.443	91	55613	8.80	ug/L	98
87) 2-chlorotoluene	12.522	91	36731	9.42	ug/L	98
88) 4-chlorotoluene	12.634	91	42443	9.56	ug/L	96
89) 1,3,5-trimethylbenzene	12.612	105	44753	8.83	ug/L	100
90) tert-butylbenzene	12.898	91	21800	8.12	ug/L	96
91) 1,2,4-trimethylbenzene	12.953	105	45474	9.01	ug/L	100
92) sec-butylbenzene	13.101	105	47111	8.14	ug/L	99
93) 1,3-dichlorobenzene	13.210	146	26188	9.76	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33446.D
Acq On : 1 Aug 2014 11:12 am
Operator : amym
Sample : ic1226-10
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 01 13:24:35 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration

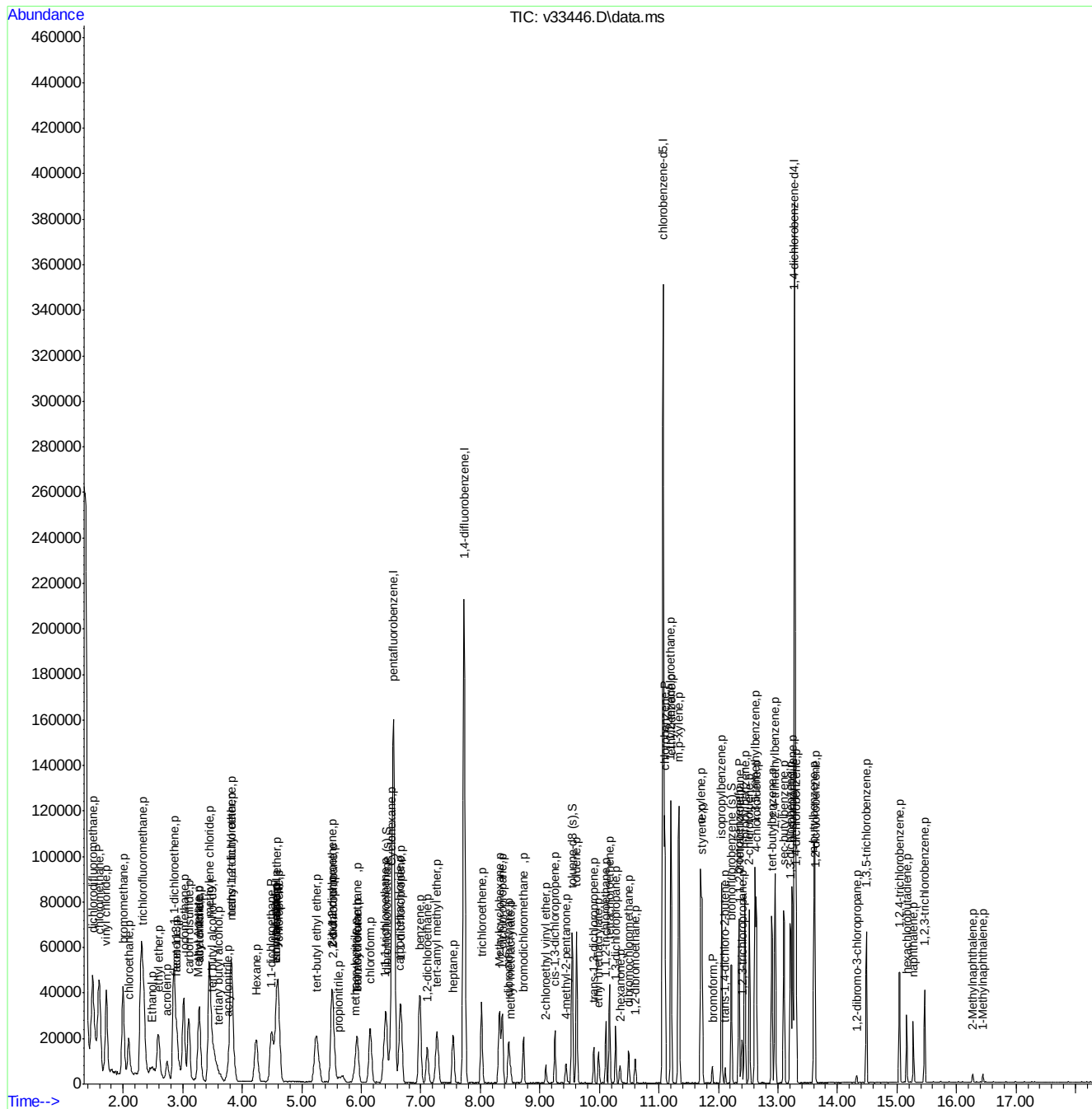
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) p-isopropyltoluene	13.243	119	44431	8.51	ug/L	96
95) 1,4-dichlorobenzene	13.305	146	26393	9.79	ug/L	99
96) 1,2-dichlorobenzene	13.622	146	24843	9.69	ug/L	97
97) n-butylbenzene	13.607	91	36363	8.38	ug/L	99
98) 1,2-dibromo-3-chloropr...	14.325	75	804m	7.42	ug/L	
99) 1,3,5-trichlorobenzene	14.487	180	18264	9.50	ug/L	96
100) 1,2,4-trichlorobenzene	15.043	180	14827	9.49	ug/L	94
101) hexachlorobutadiene	15.164	225	5432	9.01	ug/L	97
102) naphthalene	15.277	128	19631	8.42	ug/L	100
103) 1,2,3-trichlorobenzene	15.465	180	11570	9.13	ug/L	100
104) 2-Methylnaphthalene	16.274	142	2446	3.00	ug/L	98
105) 1-Methylnaphthalene	16.445	142	2229	3.28	ug/L	97

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

Quantitation Report (QT Reviewed)

```
Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33446.D
Acq On    : 1 Aug 2014 11:12 am
Operator  : amym
Sample    : ic1226-10
Misc      : MS32359,MSV1226,,,,,5,1
ALS Vial  : 8 Sample Multiplier: 1
```

Quant Time: Aug 01 13:24:35 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



v140801w.m Mon Aug 04 12:42:40 2014

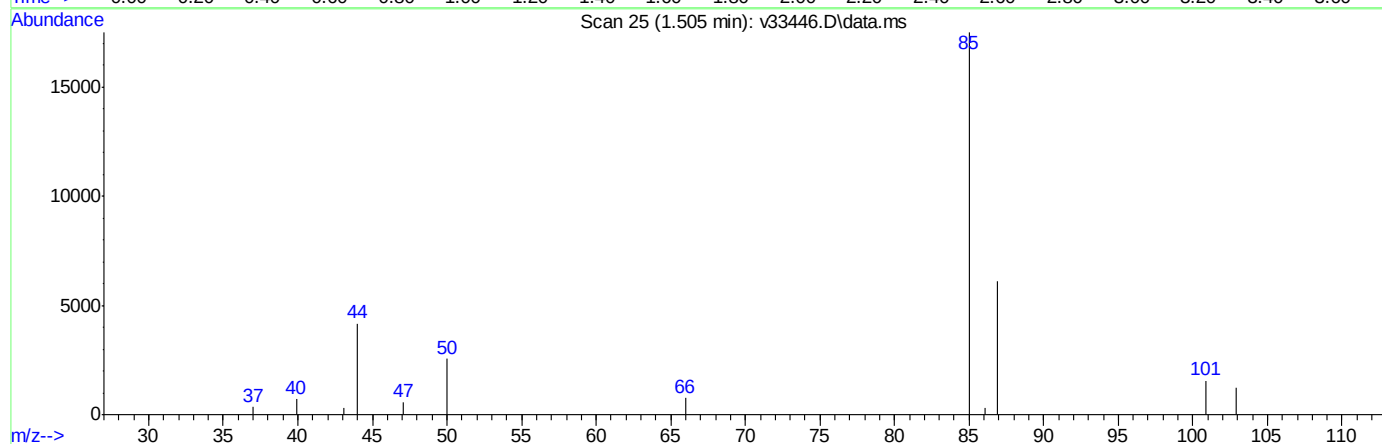
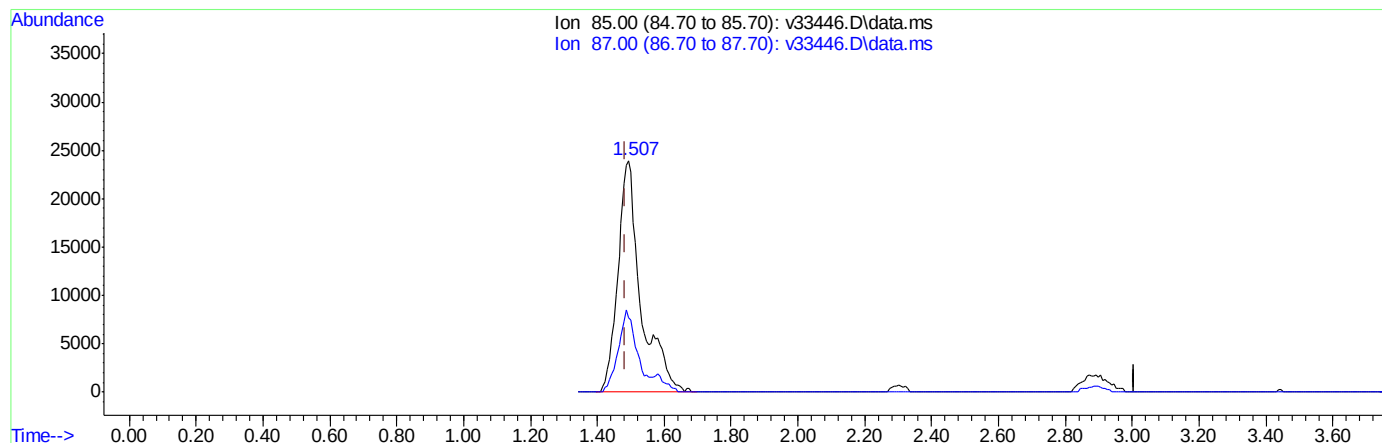
Page: 4

7.6.17 7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33446.D
Acq On : 1 Aug 2014 11:12 am
Operator : amym
Sample : ic1226-10
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 01 13:11:55 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



TIC: v33446.D\data.ms

(5) dichlorodifluoromethane (p)

1.507min (+0.022) 14.02ug/L

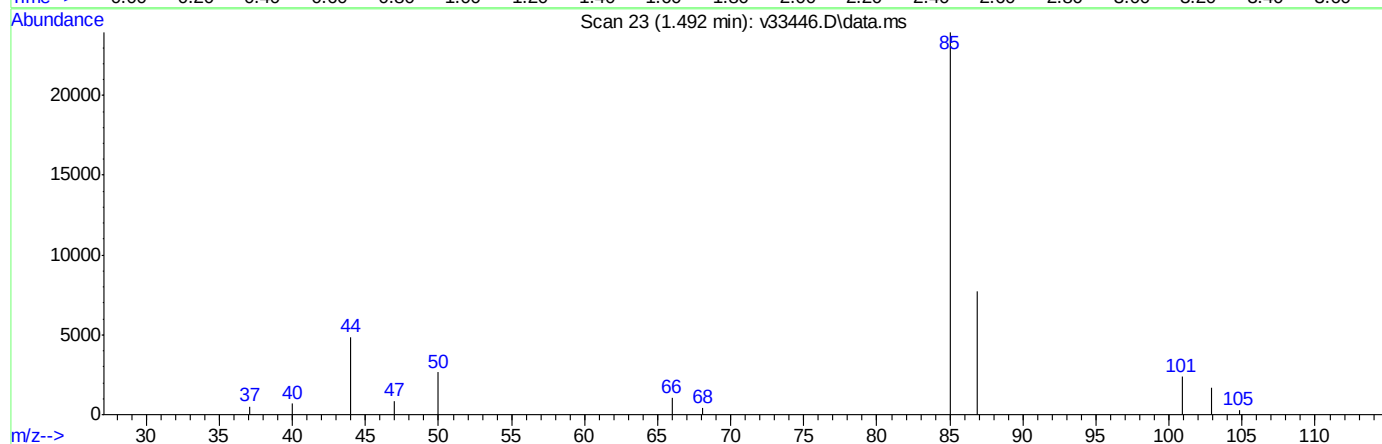
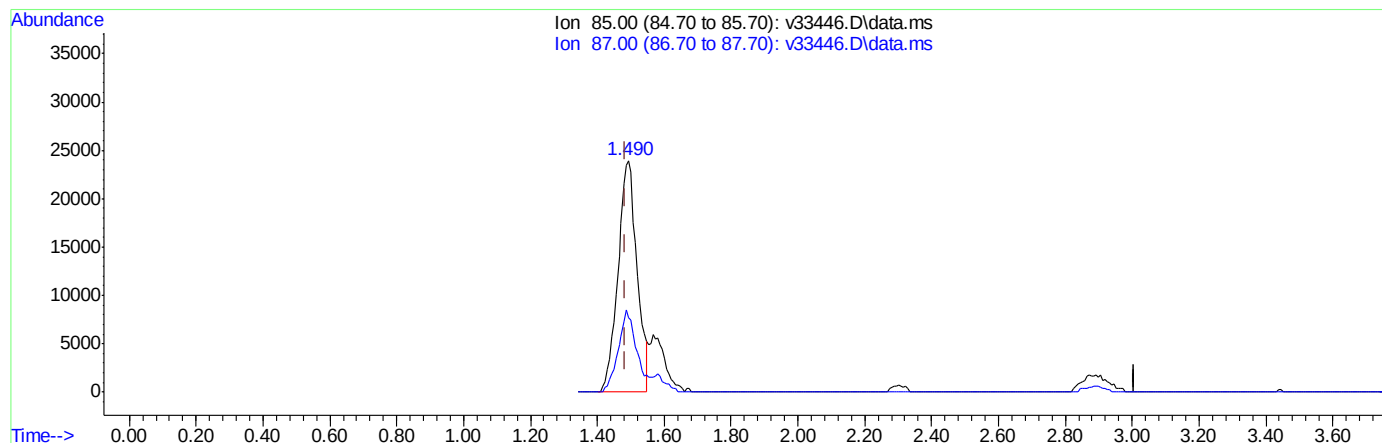
response 111515

Ion	Exp%	Act%
85.00	100	100
87.00	33.00	34.82
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33446.D
Acq On : 1 Aug 2014 11:12 am
Operator : amym
Sample : ic1226-10
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 01 13:11:55 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



TIC: v33446.D\data.ms

(5) dichlorodifluoromethane (p)

1.492min (+0.007) 11.49ug/L m

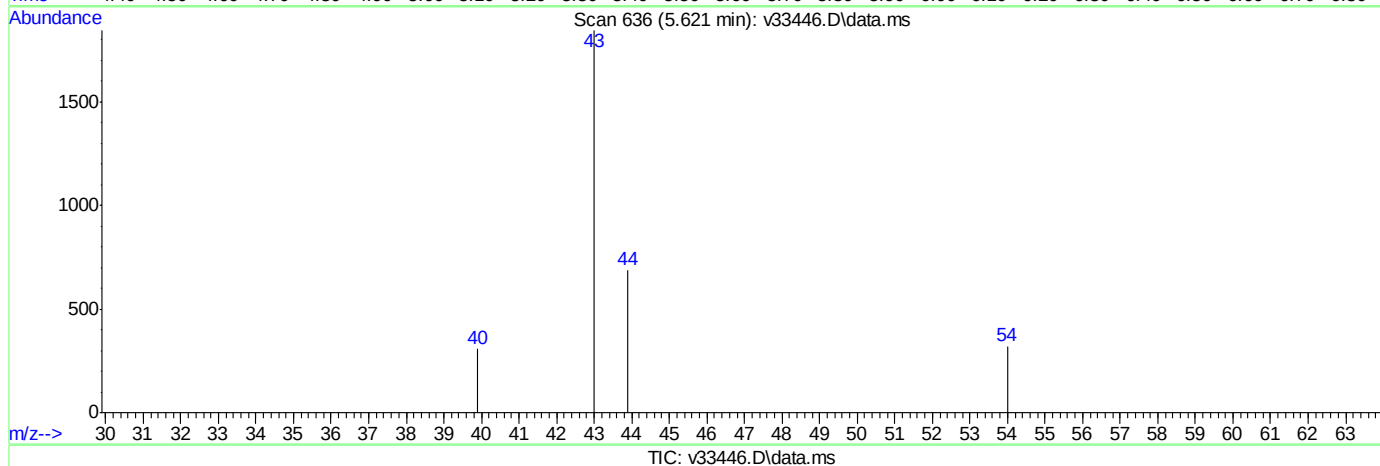
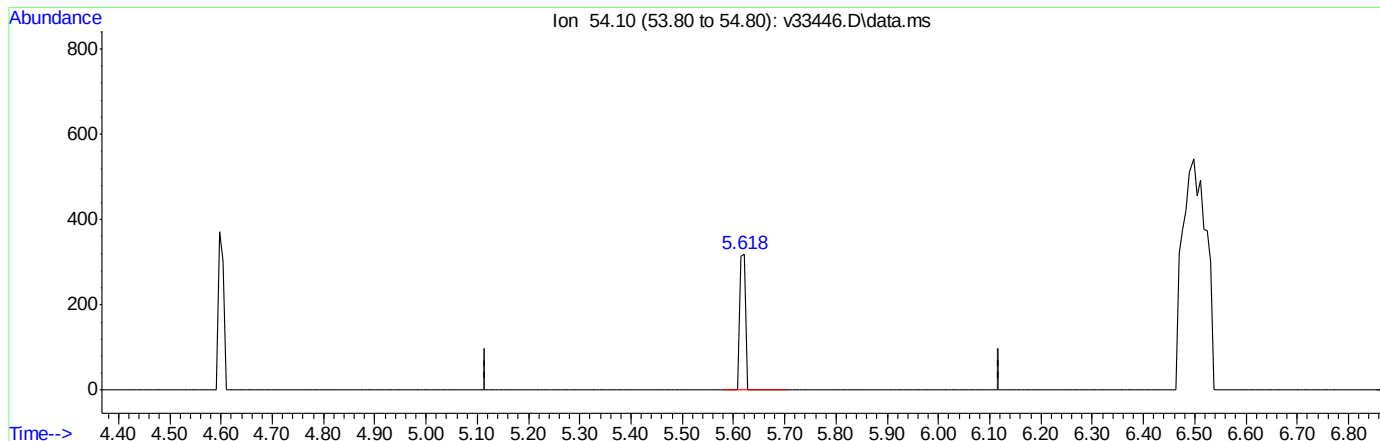
response 91439

Ion	Exp%	Act%
85.00	100	100
87.00	33.00	32.16
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33446.D
Acq On : 1 Aug 2014 11:12 am
Operator : amym
Sample : ic1226-10
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 01 13:11:55 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



(25) propionitrile (p)

5.621min (+0.003) 1.79ug/L m

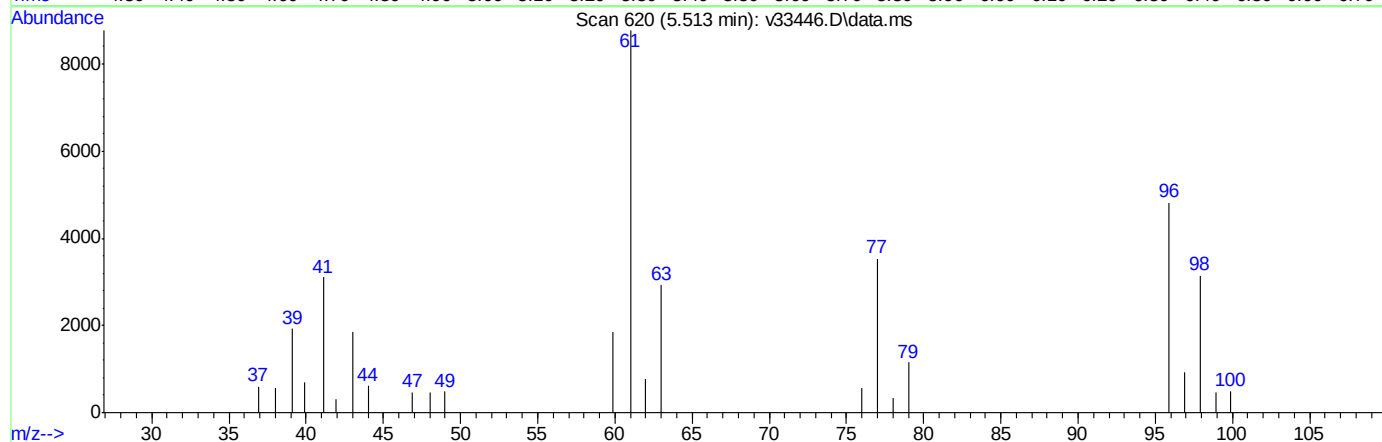
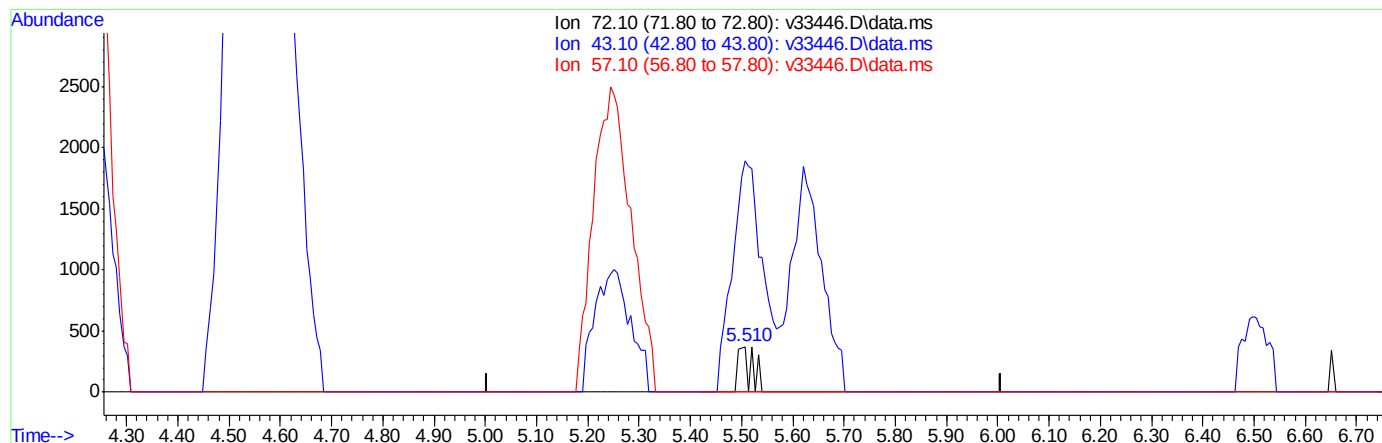
response 256

Ion	Exp%	Act%
54.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33446.D
Acq On : 1 Aug 2014 11:12 am
Operator : amym
Sample : ic1226-10
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 01 13:11:55 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



(30) 2-butanone (p)

5.513min (+0.008) 4.73ug/L m

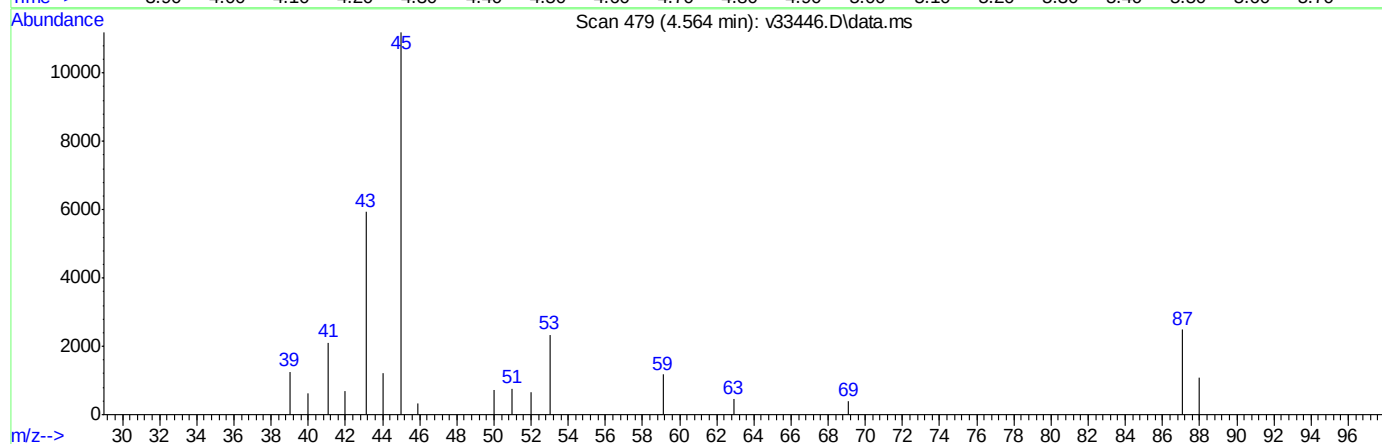
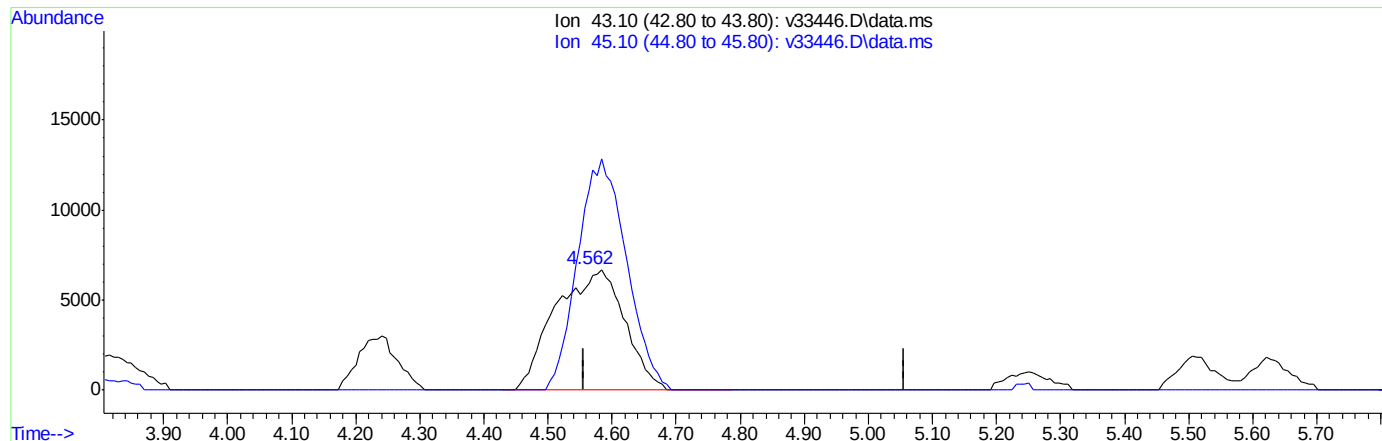
response 713

Ion	Exp%	Act%
72.10	100	100
43.10	602.10	184800.00#
57.10	42.30	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33446.D
Acq On : 1 Aug 2014 11:12 am
Operator : amym
Sample : ic1226-10
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 01 13:11:55 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



(37) ethyl acetate (p)

4.564min (+0.007) 9.38ug/L m

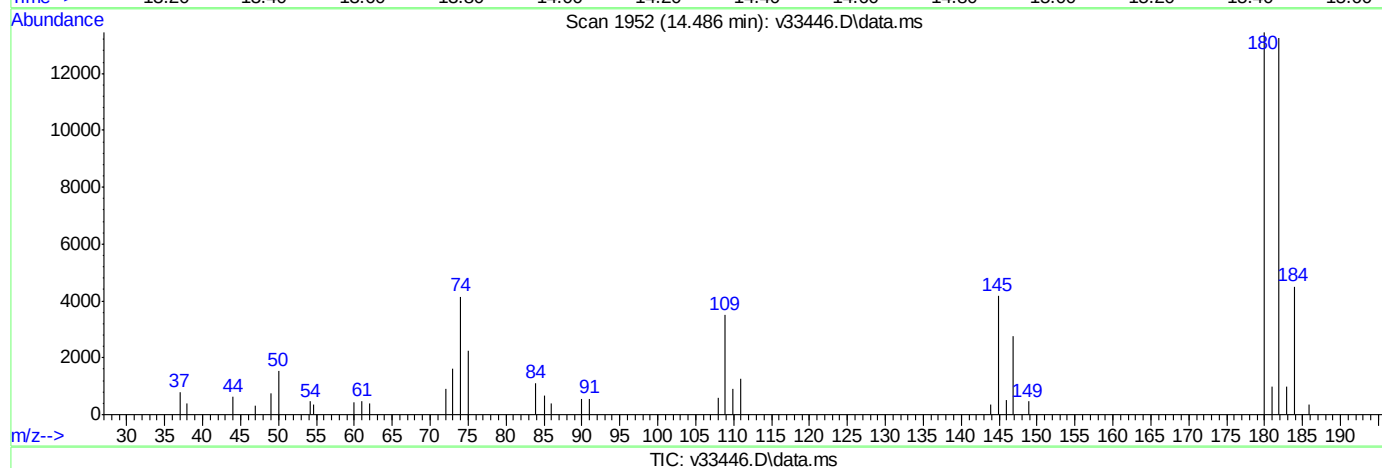
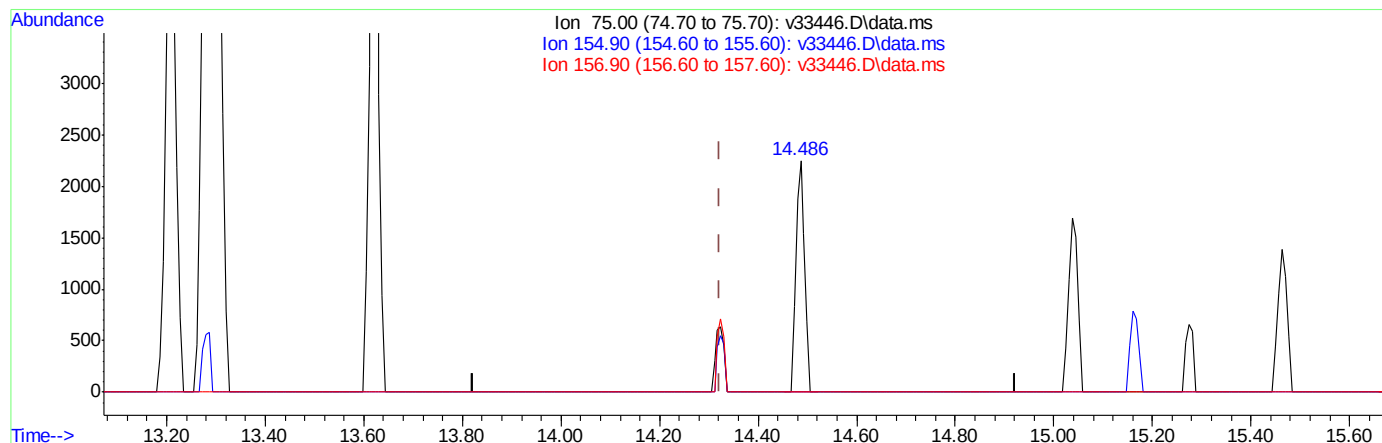
response 50218

Ion	Exp%	Act%
43.10	100	100
45.10	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33446.D
Acq On : 1 Aug 2014 11:12 am
Operator : amym
Sample : ic1226-10
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 01 13:11:55 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



(98) 1,2-dibromo-3-chloropropane (p)

14.486min (+0.163) 26.80ug/L

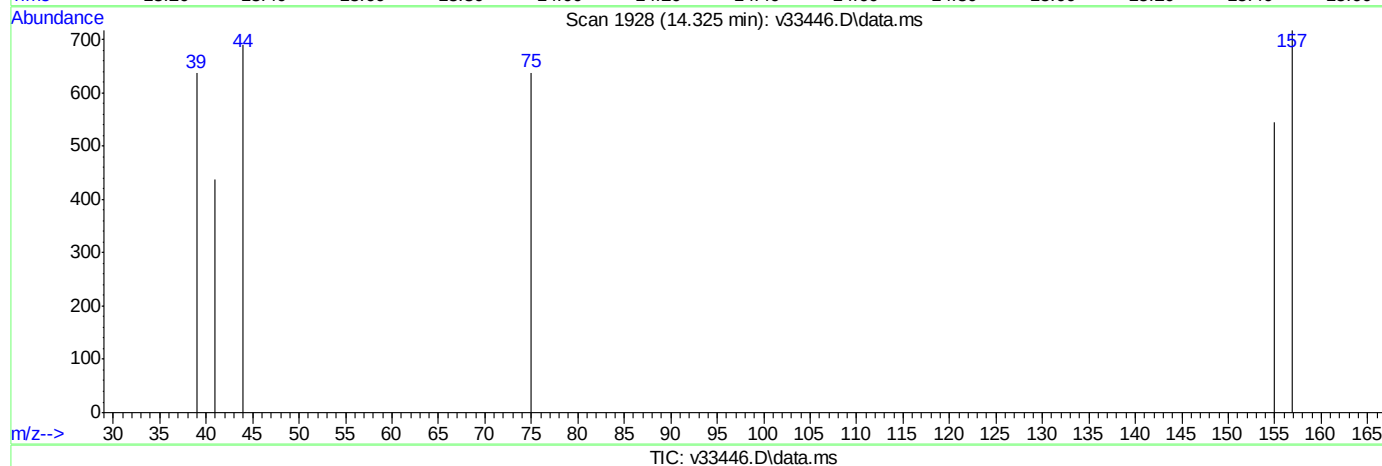
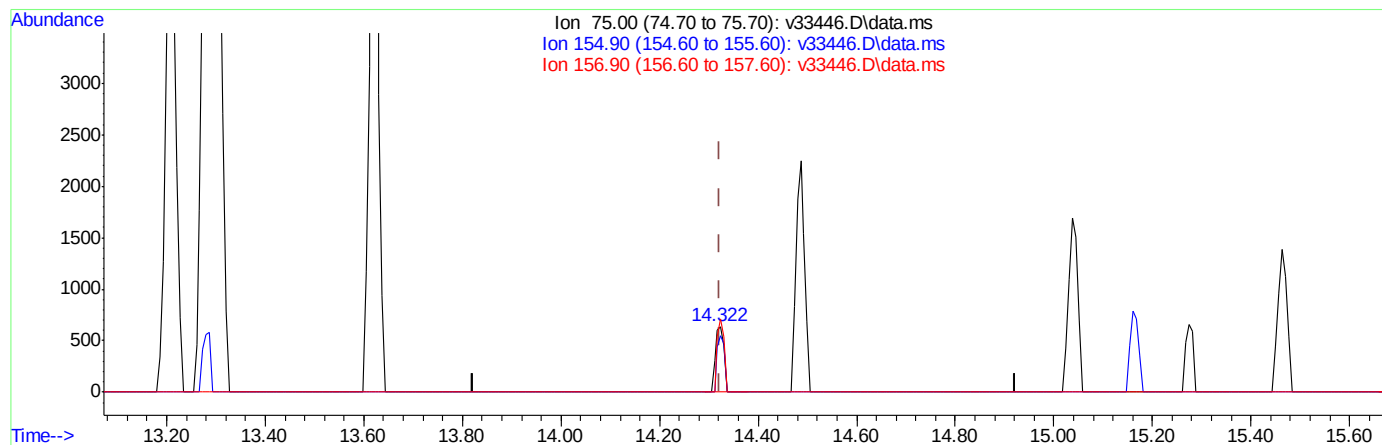
response 2904

Ion	Exp%	Act%
75.00	100	100
154.90	83.60	0.00#
156.90	101.10	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33446.D
Acq On : 1 Aug 2014 11:12 am
Operator : amym
Sample : ic1226-10
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 01 13:11:55 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



(98) 1,2-dibromo-3-chloropropane (p)

14.325min (+0.002) 7.42ug/L m

response 804

Ion	Exp%	Act%
75.00	100	100
154.90	83.60	85.42
156.90	101.10	112.38
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
 Data File : v33447.D
 Acq On : 1 Aug 2014 11:38 am
 Operator : amym
 Sample : ic1226-25
 Misc : MS32359,MSV1226,,,,5,1
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 01 13:27:15 2014
 Quant Method : C:\msdchem\1\METHODS\v140801w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Aug 01 13:11:19 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.503	65	51262	500.00	ug/L	# 0.00
4) pentafluorobenzene	6.544	168	203223	50.00	ug/L	0.00
43) 1,4-difluorobenzene	7.728	114	248666	50.00	ug/L	0.00
66) chlorobenzene-d5	11.070	82	94195	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	13.282	152	97156	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	6.423	113	53194	24.77	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	49.54%#		
60) toluene-d8 (s)	9.542	98	117848	25.07	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	50.14%#		
82) bromofluorobenzene (s)	12.219	95	42586	24.88	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	49.76%#		
Target Compounds						
						Qvalue
2) tertiary butyl alcohol	3.610	59	20852	241.90	ug/L	84
3) Ethanol	2.484	45	19372	2365.44	ug/L	# 100
5) dichlorodifluoromethane	1.492	85	230874m	25.90	ug/L	
6) chloromethane	1.609	50	133206	26.08	ug/L	98
7) vinyl chloride	1.720	62	132225	26.05	ug/L	99
8) bromomethane	2.005	96	81281	25.82	ug/L	99
9) chloroethane	2.099	64	47545	26.42	ug/L	100
10) ethyl ether	2.595	59	50810	30.79	ug/L	99
11) acetonitrile	3.282	41	114775	26.19	ug/L	# 23
12) trichlorofluoromethane	2.337	101	197778	26.43	ug/L	99
13) freon-113	2.901	101	99433	25.99	ug/L	93
14) acrolein	2.745	56	27208	125.69	ug/L	92
15) 1,1-dichloroethene	2.855	96	72845	27.01	ug/L	97
16) acetone	2.895	58	9500	25.20	ug/L	# 74
17) Methyl Acetate	3.269	43	29938	25.60	ug/L	# 93
18) methylene chloride	3.450	84	71852	26.75	ug/L	88
19) methyl tert butyl ether	3.826	73	116465	24.80	ug/L	97
20) acrylonitrile	3.766	53	16961	25.62	ug/L	94
21) allyl chloride	3.282	41	114775	26.19	ug/L	99
22) trans-1,2-dichloroethene	3.821	96	66114	26.65	ug/L	99
23) iodomethane	3.022	142	177023	26.23	ug/L	97
24) carbon disulfide	3.106	76	205759	24.84	ug/L	98
25) propionitrile	5.621	54	3422	21.36	ug/L	100
26) vinyl acetate	4.565	43	144932	24.16	ug/L	94
27) chloroprene	4.605	53	91368	26.28	ug/L	98
28) di-isopropyl ether	4.590	45	196897	24.89	ug/L	98
29) methacrylonitrile	5.900	41	19839	24.58	ug/L	94
30) 2-butanone	5.515	72	3672	21.75	ug/L	# 28
31) Hexane	4.238	41	62396	26.37	ug/L	98
32) 1,1-dichloroethane	4.493	63	116643	26.00	ug/L	100
33) tert-butyl ethyl ether	5.254	59	123650	24.33	ug/L	100
34) isobutyl alcohol	4.565	43	144932	120.79	ug/L	92
35) 2,2-dichloropropane	5.529	77	63651	23.27	ug/L	99
36) cis-1,2-dichloroethene	5.513	96	54146	25.53	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
 Data File : v33447.D
 Acq On : 1 Aug 2014 11:38 am
 Operator : amym
 Sample : ic1226-25
 Misc : MS32359,MSV1226,,,,,5,1
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 01 13:27:15 2014
 Quant Method : C:\msdchem\1\METHODS\v140801w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Aug 01 13:11:19 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) ethyl acetate	4.564	43	144933m	24.16	ug/L	
38) bromochloromethane	5.935	128	26164	25.17	ug/L	90
39) chloroform	6.153	83	95947	25.51	ug/L	99
41) Tetrahydrofuran	5.946	42	6690	23.13	ug/L	78
42) 1,1,1-trichloroethane	6.397	97	87641	24.31	ug/L	97
44) Cyclohexane	6.506	56	95646	26.13	ug/L	99
45) carbon tetrachloride	6.652	117	81460	24.34	ug/L	97
46) 1,1-dichloropropene	6.667	75	62439	26.36	ug/L	98
47) benzene	6.986	78	149407	25.94	ug/L	100
48) 1,2-dichloroethane	7.111	62	64718	25.59	ug/L	99
49) tert-amyl methyl ether	7.275	73	65307	24.45	ug/L	98
50) heptane	7.546	43	51844	25.72	ug/L	94
51) trichloroethene	8.021	95	44387	26.08	ug/L	98
52) 1,2-dichloropropane	8.370	63	41124	24.99	ug/L	100
53) dibromomethane	8.474	93	21669	25.34	ug/L	92
54) bromodichloromethane	8.725	83	44597	24.18	ug/L	97
55) Methylcyclohexane	8.325	83	59379	25.63	ug/L	98
56) 2-chloroethyl vinyl ether	9.102	63	10448	23.71	ug/L	96
57) methyl methacrylate	8.505	69	11052	23.69	ug/L	86
59) cis-1,3-dichloropropene	9.254	75	40093	24.02	ug/L	99
61) 4-methyl-2-pentanone	9.440	43	21599	22.52	ug/L	97
62) toluene	9.618	92	78323	25.29	ug/L	99
63) trans-1,3-dichloropropene	9.906	75	27067	22.96	ug/L	98
64) 1,1,2-trichloroethane	10.111	83	18558	24.03	ug/L	99
65) ethyl methacrylate	9.988	69	22135	22.35	ug/L	88
67) tetrachloroethene	10.172	166	40977	25.41	ug/L	97
68) 1,3-dichloropropane	10.274	76	35585	24.65	ug/L	98
69) dibromochloromethane	10.494	129	25501	22.49	ug/L	99
70) 1,2-dibromoethane	10.603	107	22805	24.09	ug/L	97
71) 2-hexanone	10.350	43	21190	22.46	ug/L	96
72) chlorobenzene	11.100	112	89169	25.42	ug/L	99
73) 1,1,1,2-tetrachloroethane	11.200	131	35388	22.71	ug/L	98
74) ethylbenzene	11.205	91	155208	25.13	ug/L	99
75) m,p-xylene	11.335	106	119027	50.30	ug/L	97
76) o-xylene	11.703	106	59290	24.43	ug/L	98
77) styrene	11.724	104	90799	24.81	ug/L	99
78) bromoform	11.898	173	11820	21.69	ug/L	98
79) trans-1,4-dichloro-2-b...	12.114	53	6689	22.44	ug/L	99
81) isopropylbenzene	12.055	105	155407	24.63	ug/L	98
83) bromobenzene	12.345	156	39388	25.29	ug/L	96
84) 1,1,2,2-tetrachloroethane	12.348	83	23087	23.48	ug/L	99
85) 1,2,3-trichloropropane	12.389	75	27410	24.13	ug/L	99
86) n-propylbenzene	12.443	91	176494	25.19	ug/L	99
87) 2-chlorotoluene	12.522	91	109288	25.28	ug/L	99
88) 4-chlorotoluene	12.633	91	126272	25.66	ug/L	97
89) 1,3,5-trimethylbenzene	12.613	105	138424	24.64	ug/L	100
90) tert-butylbenzene	12.898	91	72383	24.31	ug/L	97
91) 1,2,4-trimethylbenzene	12.953	105	137466	24.58	ug/L	100
92) sec-butylbenzene	13.101	105	157666	24.58	ug/L	99
93) 1,3-dichlorobenzene	13.209	146	74592	25.08	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33447.D
Acq On : 1 Aug 2014 11:38 am
Operator : amym
Sample : ic1226-25
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 01 13:27:15 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration

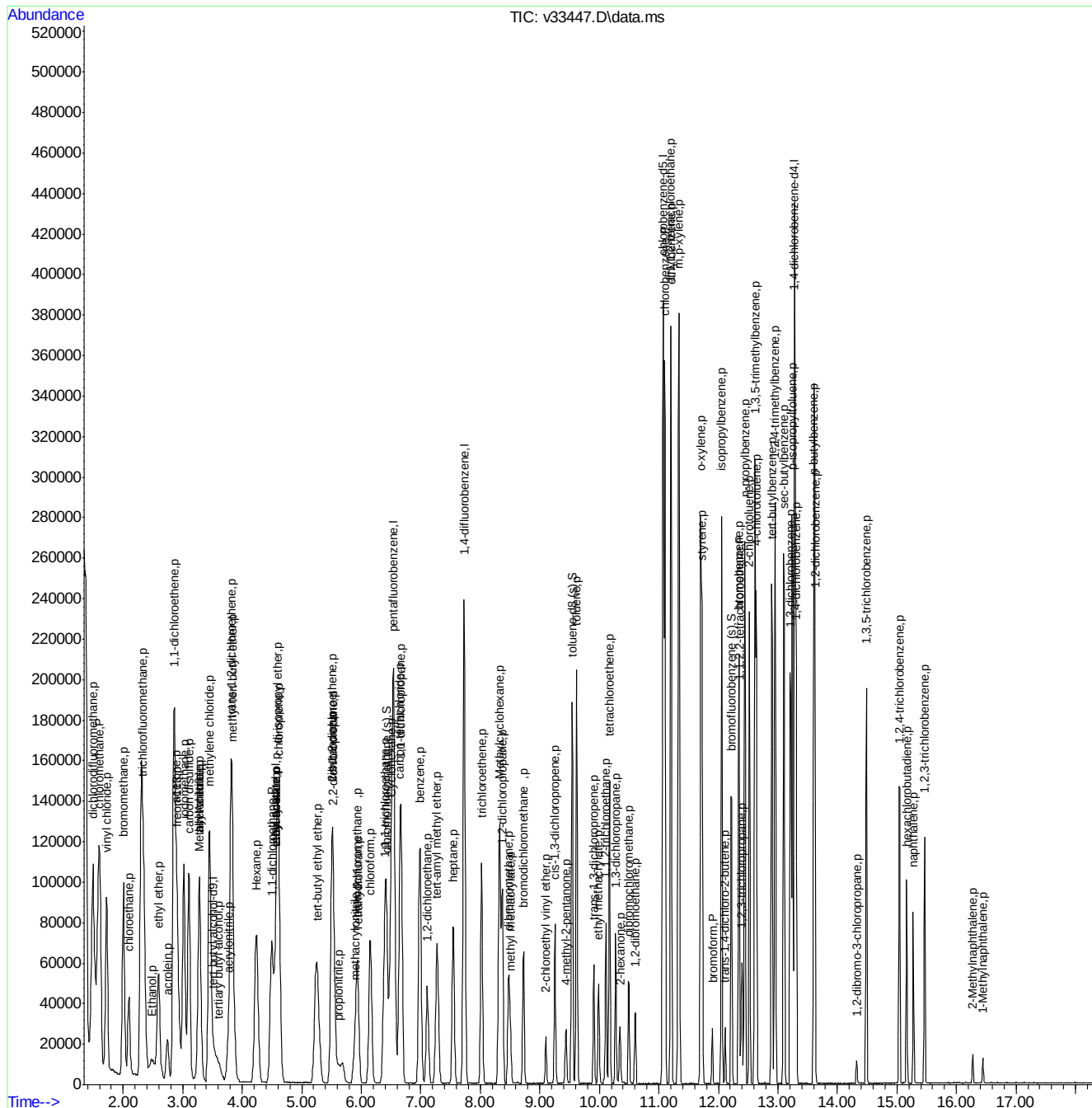
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) p-isopropyltoluene	13.242	119	142364	24.59	ug/L	97
95) 1,4-dichlorobenzene	13.305	146	76139	25.46	ug/L	99
96) 1,2-dichlorobenzene	13.622	146	70388	24.75	ug/L	97
97) n-butylbenzene	13.607	91	120819	25.11	ug/L	100
98) 1,2-dibromo-3-chloropr...	14.323	75	2527	21.03	ug/L	87
99) 1,3,5-trichlorobenzene	14.488	180	52860	24.79	ug/L	100
100) 1,2,4-trichlorobenzene	15.043	180	41545	23.97	ug/L	97
101) hexachlorobutadiene	15.164	225	16803	25.13	ug/L	94
102) naphthalene	15.277	128	57033	22.06	ug/L	100
103) 1,2,3-trichlorobenzene	15.466	180	32756	23.30	ug/L	99
104) 2-Methylnaphthalene	16.275	142	7967	8.83	ug/L	98
105) 1-Methylnaphthalene	16.445	142	7193	9.55	ug/L	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33447.D
Acq On : 1 Aug 2014 11:38 am
Operator : amym
Sample : ic1226-25
Misc : MS32359,MSV1226,,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 01 13:27:15 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



v140801w.m Mon Aug 04 12:42:46 2014

Page: 4

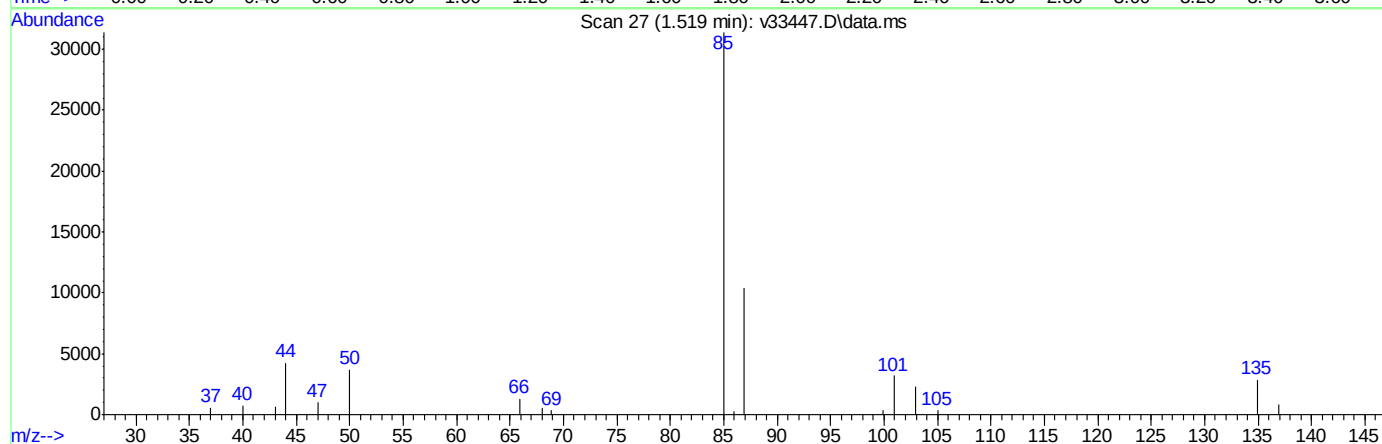
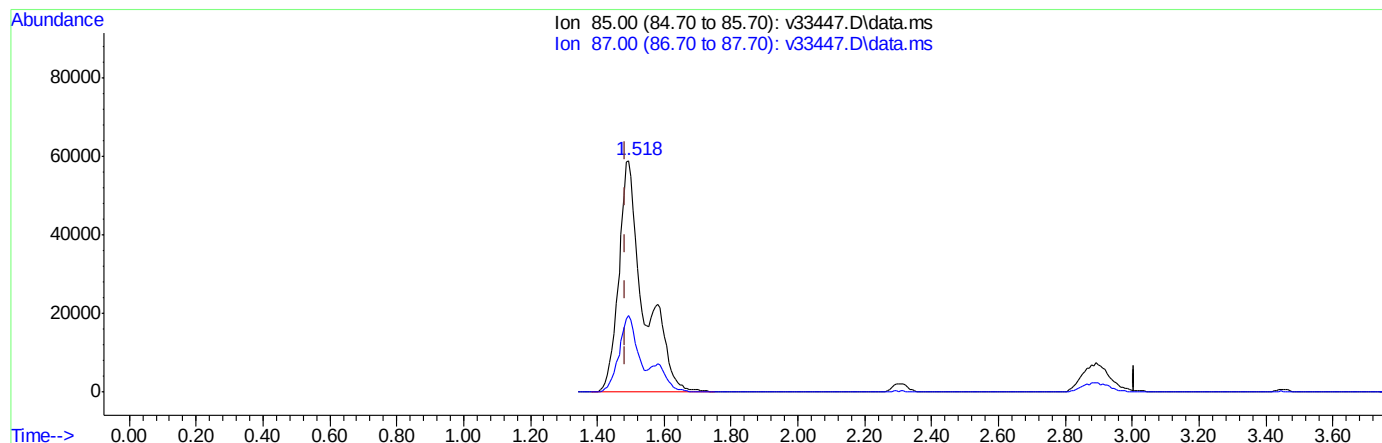
7.6.18



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33447.D
Acq On : 1 Aug 2014 11:38 am
Operator : amym
Sample : ic1226-25
Misc : MS32359,MSV1226,,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 01 13:11:58 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



TIC: v33447.D\data.ms

(5) dichlorodifluoromethane (p)

1.518min (+0.033) 34.12ug/L

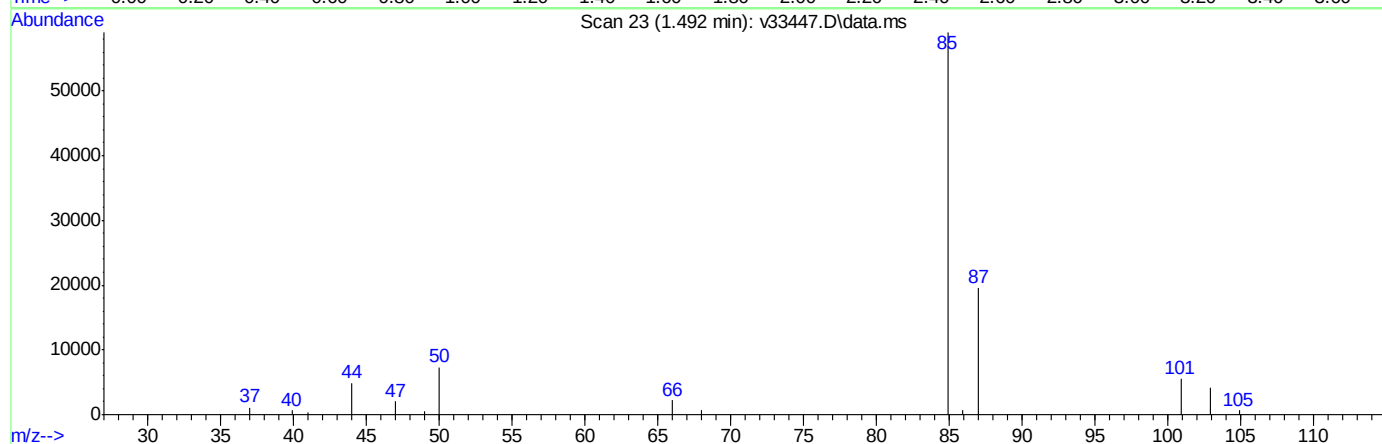
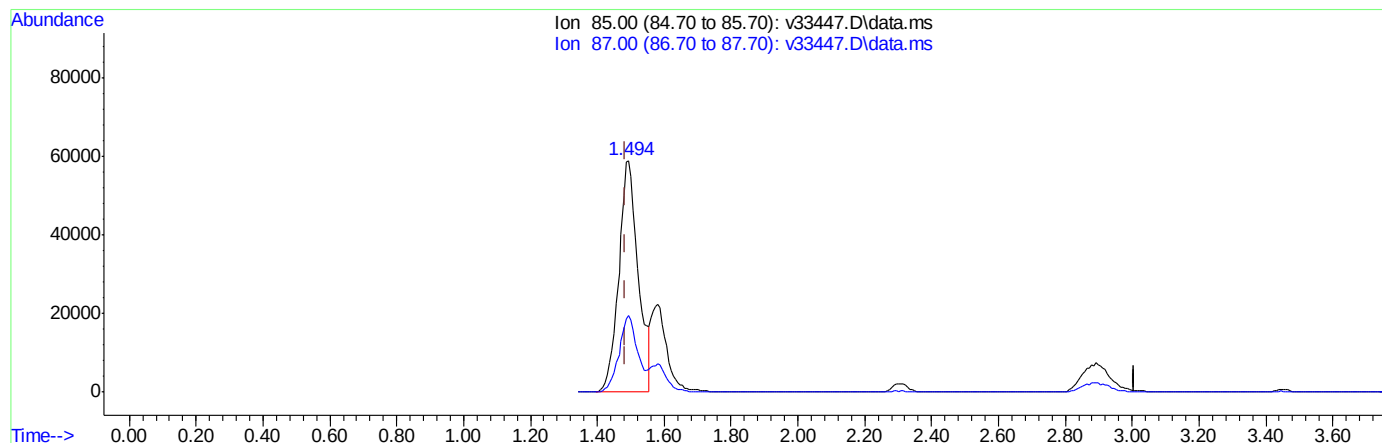
response 304186

Ion	Exp%	Act%
85.00	100	100
87.00	33.00	33.27
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33447.D
Acq On : 1 Aug 2014 11:38 am
Operator : amym
Sample : ic1226-25
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 01 13:11:58 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



TIC: v33447.D\data.ms

(5) dichlorodifluoromethane (p)

1.492min (+0.007) 25.90ug/L m

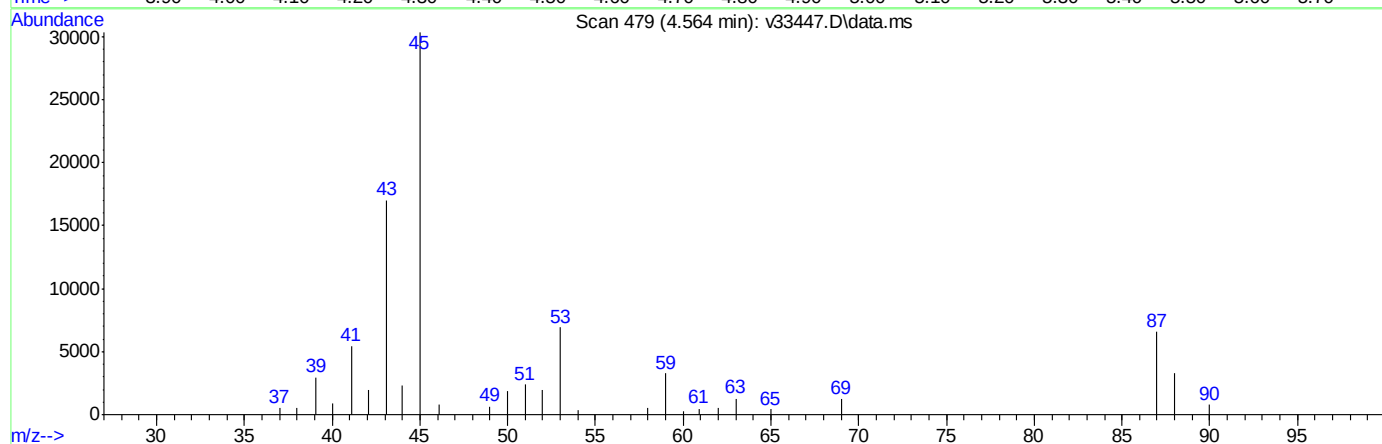
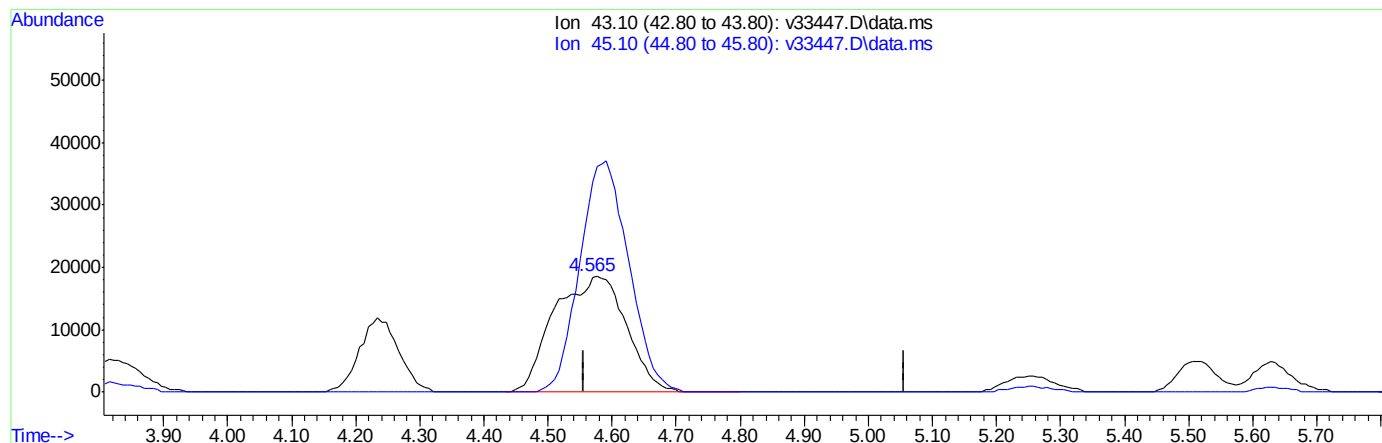
response 230874

Ion	Exp%	Act%
85.00	100	100
87.00	33.00	33.04
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33447.D
Acq On : 1 Aug 2014 11:38 am
Operator : amym
Sample : ic1226-25
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 01 13:11:58 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



(37) ethyl acetate (p)

4.564min (+0.007) 24.16ug/L m

response 144933

Ion	Exp%	Act%
43.10	100	100
45.10	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
 Data File : v33448.D
 Acq On : 1 Aug 2014 12:04 pm
 Operator : amym
 Sample : icc1226-50
 Misc : MS32359,MSV1226,,,,5,1
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 01 13:30:30 2014
 Quant Method : C:\msdchem\1\METHODS\v140801w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Aug 01 13:11:19 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.496	65	53091	500.00	ug/L	# 0.00
4) pentafluorobenzene	6.538	168	199188	50.00	ug/L	0.00
43) 1,4-difluorobenzene	7.725	114	248771	50.00	ug/L	0.00
66) chlorobenzene-d5	11.069	82	92793	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	13.282	152	97330	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	6.417	113	105243	50.00	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	100.00%		
60) toluene-d8 (s)	9.541	98	235105	50.00	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	100.00%		
82) bromofluorobenzene (s)	12.219	95	85735	50.01	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	100.02%		
Target Compounds						
						Qvalue
2) tertiary butyl alcohol	3.606	59	44639	500.00	ug/L	81
3) Ethanol	2.475	45	40639	4791.32	ug/L	# 100
5) dichlorodifluoromethane	1.478	85	423506m	48.46	ug/L	
6) chloromethane	1.601	50	250304	50.00	ug/L	98
7) vinyl chloride	1.710	62	248784	50.00	ug/L	97
8) bromomethane	1.994	96	154275	50.00	ug/L	99
9) chloroethane	2.088	64	88186	50.00	ug/L	97
10) ethyl ether	2.586	59	80867	50.00	ug/L	92
11) acetonitrile	3.270	41	214933	50.03	ug/L	# 21
12) trichlorofluoromethane	2.326	101	366719	50.00	ug/L	98
13) freon-113	2.890	101	187521	50.00	ug/L	94
14) acrolein	2.733	56	53044	250.00	ug/L	98
15) 1,1-dichloroethene	2.842	96	132188	50.00	ug/L	96
16) acetone	2.885	58	18476	50.01	ug/L	# 74
17) Methyl Acetate	3.258	43	57311	50.00	ug/L	# 95
18) methylene chloride	3.438	84	131626	50.00	ug/L	90
19) methyl tert butyl ether	3.816	73	230130	50.00	ug/L	97
20) acrylonitrile	3.754	53	32440	50.00	ug/L	88
21) allyl chloride	3.270	41	214808	50.00	ug/L	93
22) trans-1,2-dichloroethene	3.809	96	121587	50.00	ug/L	98
23) iodomethane	3.009	142	330685	50.00	ug/L	97
24) carbon disulfide	3.093	76	405888	50.00	ug/L	99
25) propionitrile	5.618	54	7851	50.00	ug/L	100
26) vinyl acetate	4.554	43	293992	50.00	ug/L	97
27) chloroprene	4.595	53	170360	50.00	ug/L	98
28) di-isopropyl ether	4.581	45	387657	50.00	ug/L	98
29) methacrylonitrile	5.892	41	39567	50.01	ug/L	94
30) 2-butanone	5.506	72	8272	50.00	ug/L	# 73
31) Hexane	4.228	41	115959	50.00	ug/L	96
32) 1,1-dichloroethane	4.483	63	219893	50.00	ug/L	98
33) tert-butyl ethyl ether	5.246	59	249115	50.00	ug/L	96
34) isobutyl alcohol	4.554	43	294007	250.00	ug/L	93
35) 2,2-dichloropropane	5.521	77	134056	50.00	ug/L	96
36) cis-1,2-dichloroethene	5.504	96	103940	50.00	ug/L	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
 Data File : v33448.D
 Acq On : 1 Aug 2014 12:04 pm
 Operator : amym
 Sample : icc1226-50
 Misc : MS32359,MSV1226,,,,5,1
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 01 13:30:30 2014
 Quant Method : C:\msdchem\1\METHODS\v140801w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Aug 01 13:11:19 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) ethyl acetate	4.557	43	294004m	50.00	ug/L	
38) bromochloromethane	5.926	128	50950	50.00	ug/L	94
39) chloroform	6.145	83	184317	50.00	ug/L	99
41) Tetrahydrofuran	5.937	42	14175	50.00	ug/L	98
42) 1,1,1-trichloroethane	6.391	97	176684	50.00	ug/L	98
44) Cyclohexane	6.499	56	183128	50.00	ug/L	97
45) carbon tetrachloride	6.646	117	167401	50.00	ug/L	98
46) 1,1-dichloropropene	6.661	75	118492	50.00	ug/L	94
47) benzene	6.981	78	288065	50.00	ug/L	99
48) 1,2-dichloroethane	7.105	62	126485	50.00	ug/L	100
49) tert-amyl methyl ether	7.271	73	133628	50.00	ug/L	97
50) heptane	7.542	43	100837	50.00	ug/L	93
51) trichloroethene	8.018	95	85151	50.01	ug/L	96
52) 1,2-dichloropropane	8.368	63	82313	50.00	ug/L	99
53) dibromomethane	8.472	93	42773	50.00	ug/L	92
54) bromodichloromethane	8.724	83	92239	50.00	ug/L	99
55) Methylcyclohexane	8.322	83	115906	50.00	ug/L	99
56) 2-chloroethyl vinyl ether	9.100	63	22041	50.00	ug/L	97
57) methyl methacrylate	8.502	69	23337	50.00	ug/L	84
58) 1,4-dioxane	8.477	88	799m	250.00	ug/L	
59) cis-1,3-dichloropropene	9.252	75	83501	50.00	ug/L	96
61) 4-methyl-2-pentanone	9.439	43	47980	50.00	ug/L	95
62) toluene	9.617	92	154941	50.00	ug/L	99
63) trans-1,3-dichloropropene	9.905	75	58981	50.00	ug/L	98
64) 1,1,2-trichloroethane	10.111	83	38633	50.00	ug/L	99
65) ethyl methacrylate	9.985	69	49537	50.00	ug/L	88
67) tetrachloroethene	10.170	166	79437	50.00	ug/L	95
68) 1,3-dichloropropane	10.273	76	71102	50.00	ug/L	100
69) dibromochloromethane	10.493	129	55844	50.00	ug/L	100
70) 1,2-dibromoethane	10.602	107	46634	50.00	ug/L	97
71) 2-hexanone	10.347	43	46461	50.00	ug/L	93
72) chlorobenzene	11.099	112	172751	50.00	ug/L	99
73) 1,1,1,2-tetrachloroethane	11.199	131	76757	50.00	ug/L	98
74) ethylbenzene	11.204	91	304231	50.00	ug/L	99
75) m,p-xylene	11.335	106	233093	100.00	ug/L	95
76) o-xylene	11.702	106	119553	50.00	ug/L	97
77) styrene	11.722	104	180236	50.00	ug/L	100
78) bromoform	11.897	173	26841	50.00	ug/L	100
79) trans-1,4-dichloro-2-b...	12.114	53	14685	50.00	ug/L	87
81) isopropylbenzene	12.054	105	316127	50.01	ug/L	98
83) bromobenzene	12.344	156	78022	50.01	ug/L	96
84) 1,1,2,2-tetrachloroethane	12.349	83	49252	50.01	ug/L	100
85) 1,2,3-trichloropropane	12.389	75	56909	50.01	ug/L	96
86) n-propylbenzene	12.443	91	350922	50.00	ug/L	100
87) 2-chlorotoluene	12.521	91	216587	50.01	ug/L	98
88) 4-chlorotoluene	12.633	91	246487	50.00	ug/L	98
89) 1,3,5-trimethylbenzene	12.612	105	281324	50.00	ug/L	100
90) tert-butylbenzene	12.898	91	147200	49.35	ug/L	96
91) 1,2,4-trimethylbenzene	12.952	105	280178	50.00	ug/L	100
92) sec-butylbenzene	13.101	105	321255	50.00	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33448.D
Acq On : 1 Aug 2014 12:04 pm
Operator : amym
Sample : icc1226-50
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 01 13:30:30 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,3-dichlorobenzene	13.209	146	148962	50.00	ug/L	99
94) p-isopropyltoluene	13.242	119	289976	50.00	ug/L	98
95) 1,4-dichlorobenzene	13.304	146	149809	50.01	ug/L	99
96) 1,2-dichlorobenzene	13.621	146	142443	50.00	ug/L	99
97) n-butylbenzene	13.607	91	241034	50.00	ug/L	98
98) 1,2-dibromo-3-chloropr...	14.323	75	6018	50.00	ug/L	93
99) 1,3,5-trichlorobenzene	14.487	180	106817	50.00	ug/L	99
100) 1,2,4-trichlorobenzene	15.043	180	86814	50.01	ug/L	99
101) hexachlorobutadiene	15.164	225	33491	50.00	ug/L	95
102) naphthalene	15.277	128	129505	50.00	ug/L	100
103) 1,2,3-trichlorobenzene	15.466	180	70418	50.00	ug/L	98
104) 2-Methylnaphthalene	16.275	142	22608	25.00	ug/L	99
105) 1-Methylnaphthalene	16.444	142	18864	25.00	ug/L	99

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

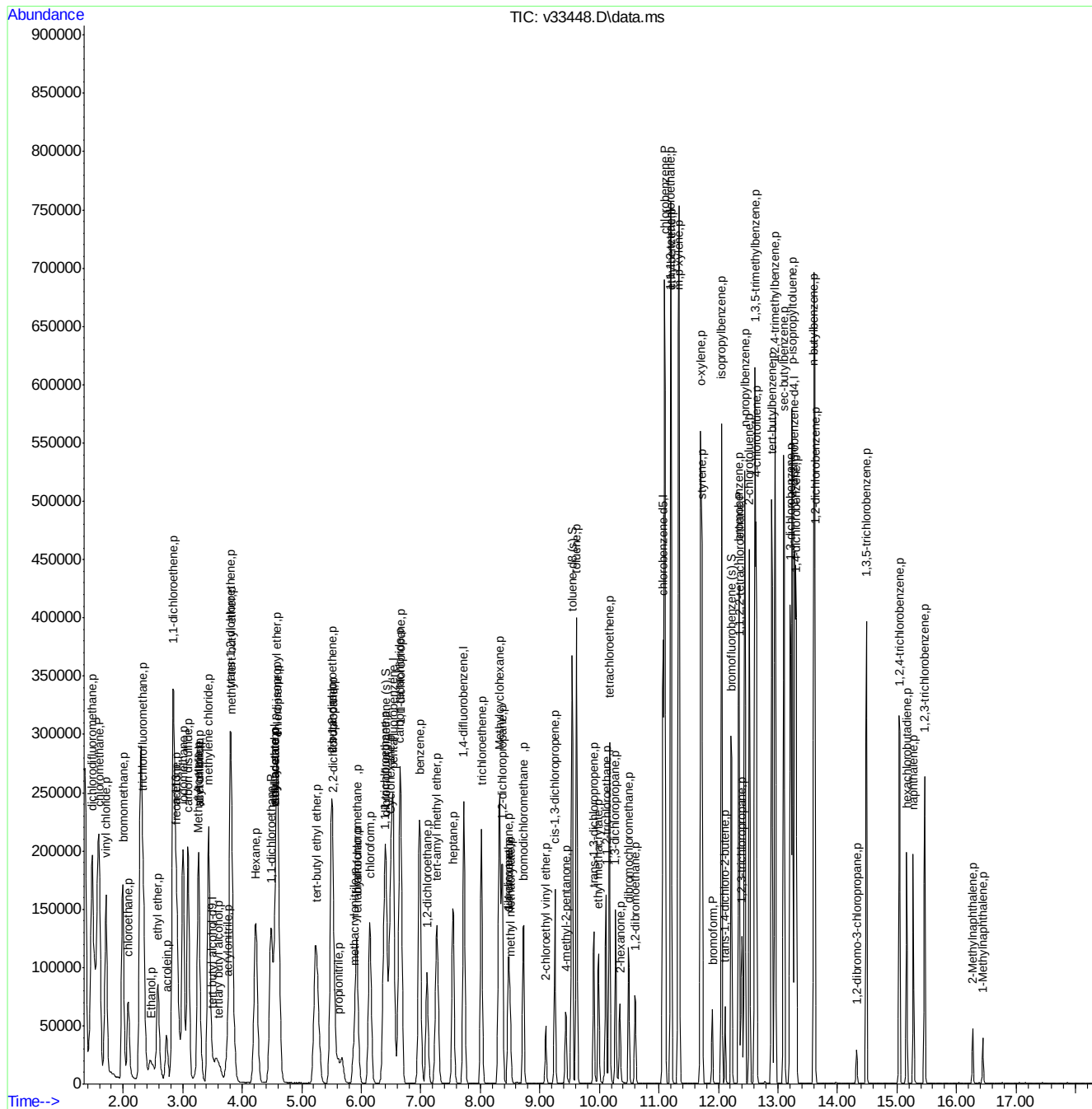
7.6.19

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33448.D
Acq On : 1 Aug 2014 12:04 pm
Operator : amym
Sample : icc1226-50
Misc : MS32359,MSV1226,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 01 13:30:30 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



v140801w.m Mon Aug 04 12:42:49 2014

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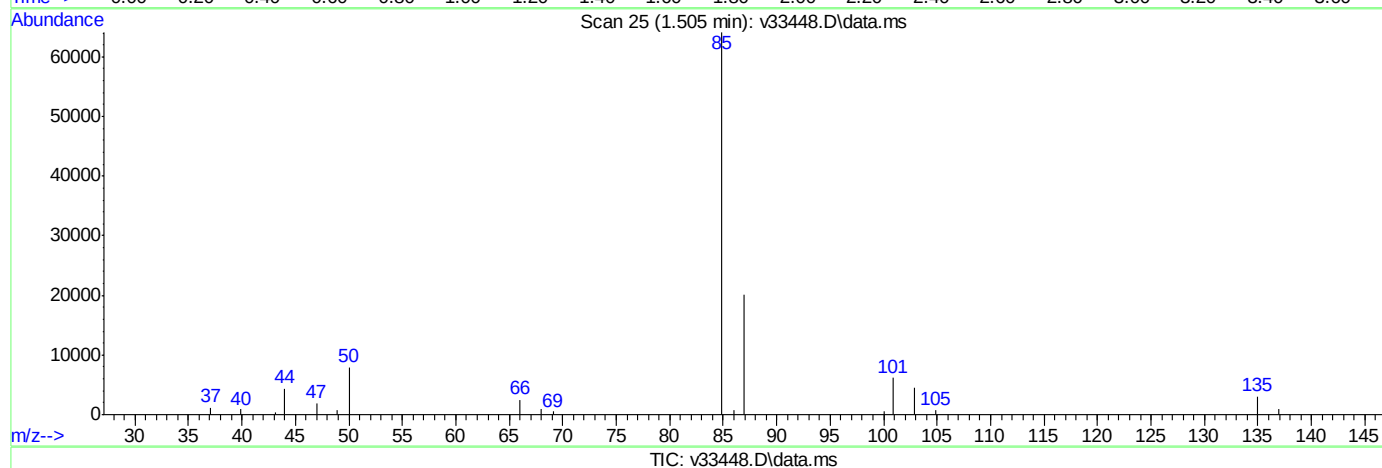
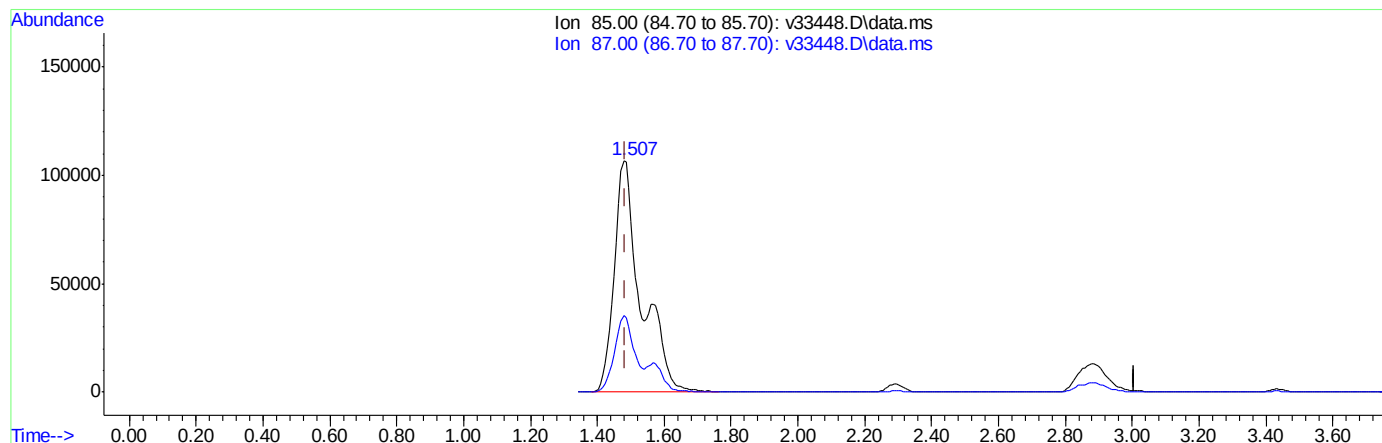
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Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33448.D
Acq On : 1 Aug 2014 12:04 pm
Operator : amym
Sample : icc1226-50
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 01 13:12:01 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



(5) dichlorodifluoromethane (p)

1.507min (+0.022) 66.37ug/L

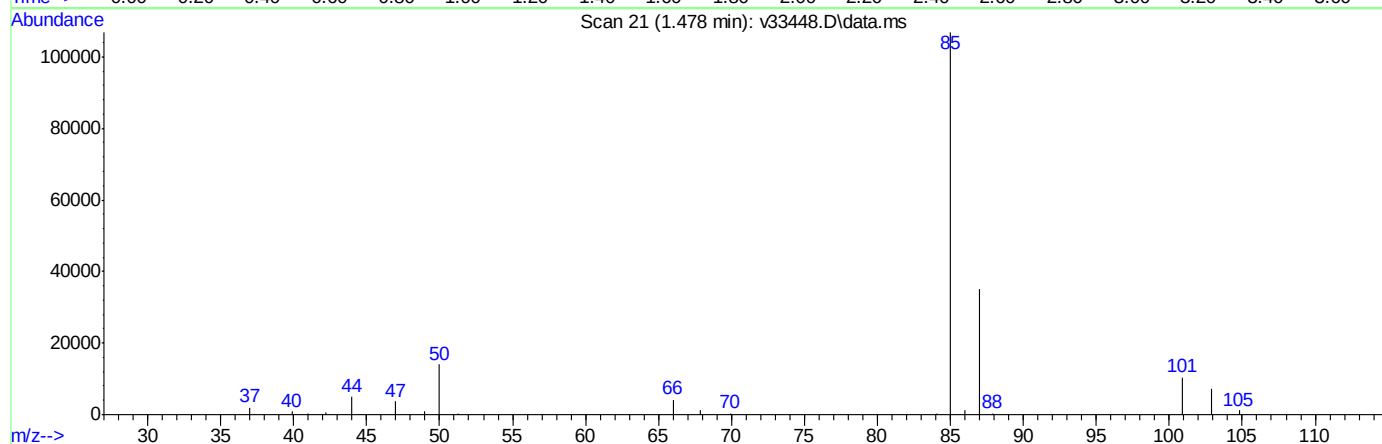
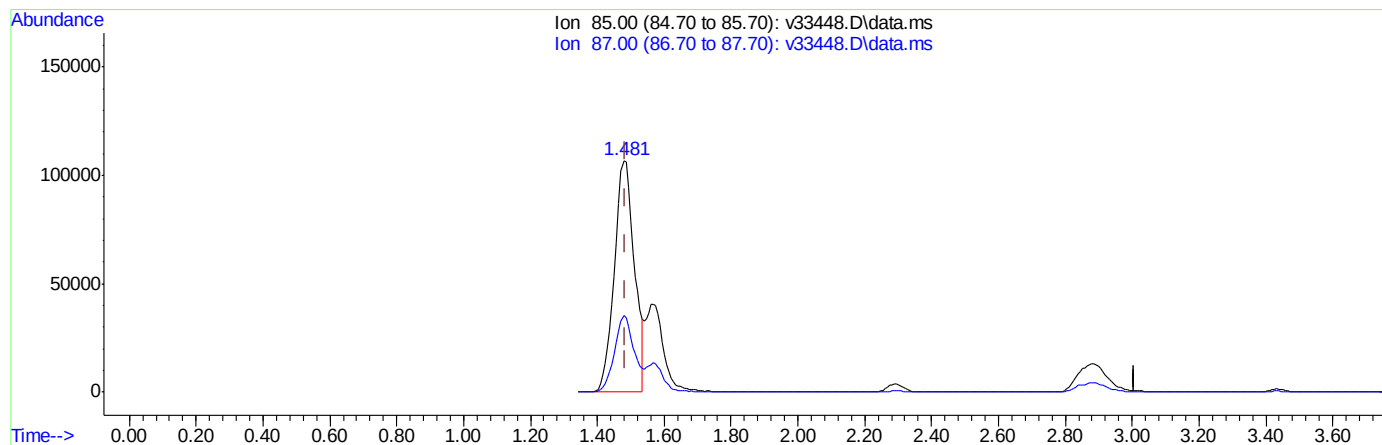
response 579945

Ion	Exp%	Act%
85.00	100	100
87.00	33.00	31.37
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33448.D
Acq On : 1 Aug 2014 12:04 pm
Operator : amym
Sample : icc1226-50
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 01 13:12:01 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



TIC: v33448.D\data.ms

(5) dichlorodifluoromethane (p)

1.478min (-0.007) 48.46ug/L m

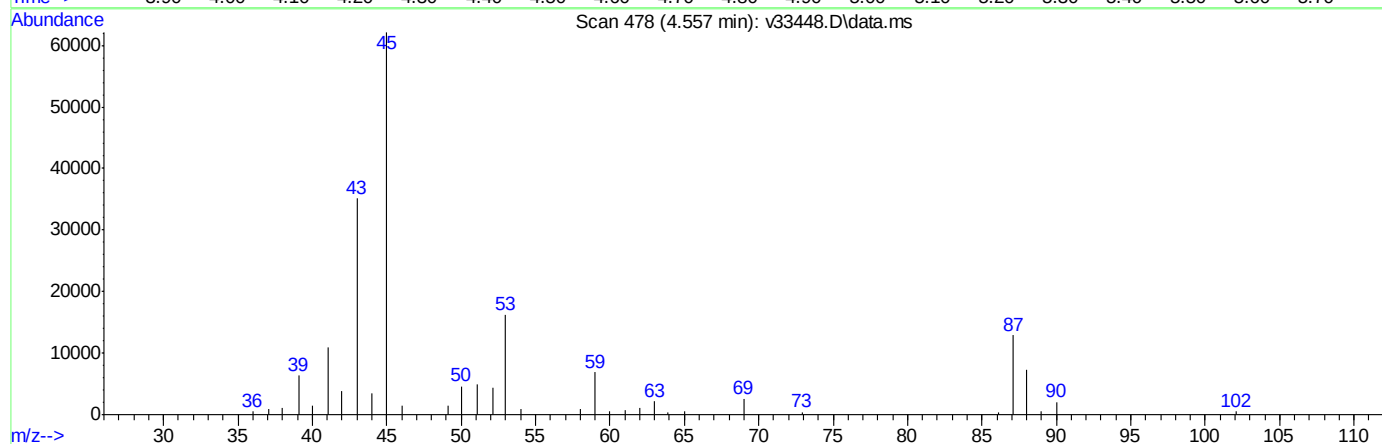
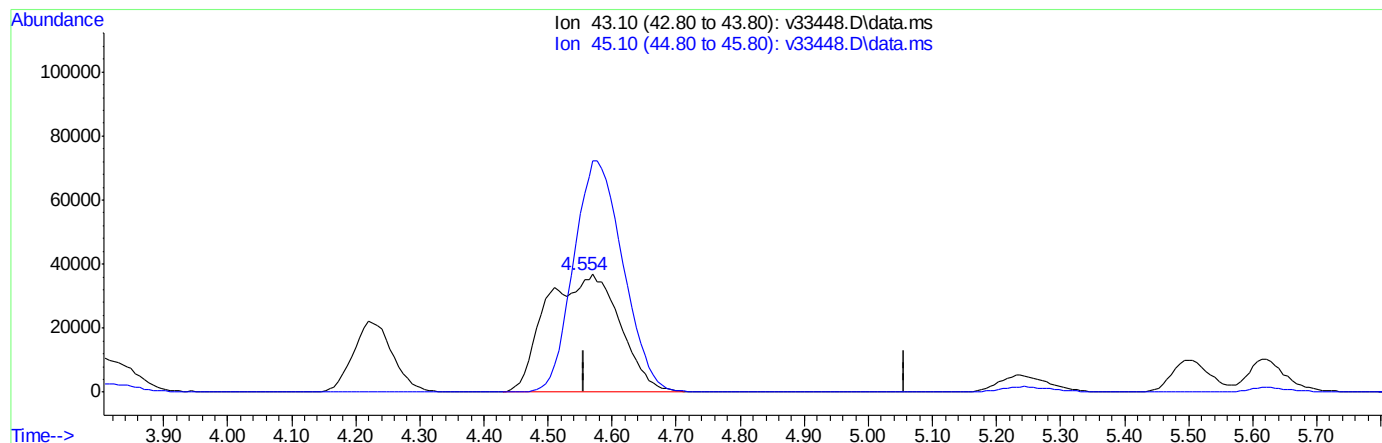
response 423506

Ion	Exp%	Act%
85.00	100	100
87.00	33.00	32.88
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33448.D
Acq On : 1 Aug 2014 12:04 pm
Operator : amym
Sample : icc1226-50
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 01 13:12:01 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



(37) ethyl acetate (p)

4.557min (0.000) 50.00ug/L m

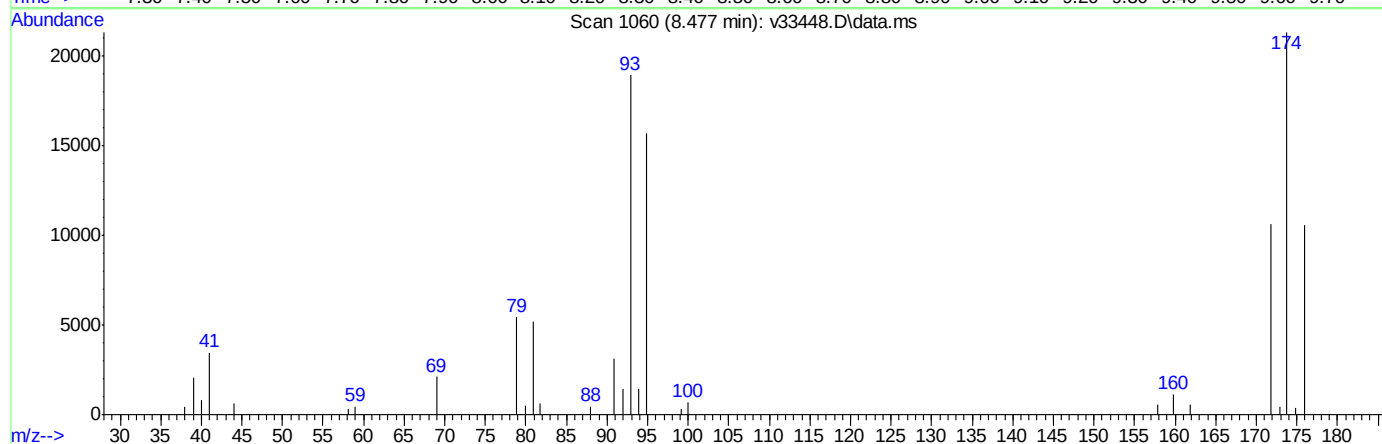
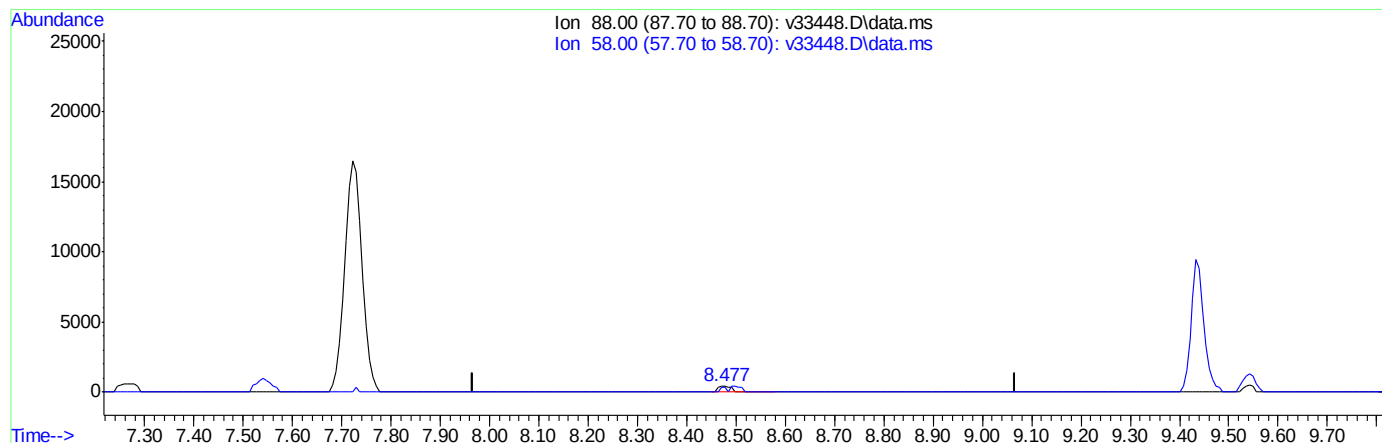
response 294004

Ion	Exp%	Act%
43.10	100	100
45.10	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33448.D
Acq On : 1 Aug 2014 12:04 pm
Operator : amym
Sample : icc1226-50
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 01 13:12:01 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



(58) 1,4-dioxane (p)

8.477min (0.000) 250.00ug/L m

response 799

Ion	Exp%	Act%
88.00	100	100
58.00	101.70	68.16#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
 Data File : v33449.D
 Acq On : 1 Aug 2014 12:30 pm
 Operator : amym
 Sample : ic1226-100
 Misc : MS32359,MSV1226,,,,5,1
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 01 13:31:35 2014
 Quant Method : C:\msdchem\1\METHODS\v140801w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Aug 01 13:11:19 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.499	65	65086	500.00	ug/L	# 0.00
4) pentafluorobenzene	6.541	168	257392	50.00	ug/L	0.00
43) 1,4-difluorobenzene	7.728	114	330884	50.00	ug/L	0.00
66) chlorobenzene-d5	11.070	82	124756	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	13.283	152	165415	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	6.420	113	283226	104.13	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	208.26%#		
60) toluene-d8 (s)	9.542	98	661300	105.74	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	211.48%#		
82) bromofluorobenzene (s)	12.219	95	258743	88.80	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	177.60%#		
Target Compounds						
2) tertiary butyl alcohol	3.608	59	116849	1067.61	ug/L	Qvalue 75
3) Ethanol	2.478	45	92826	8927.19	ug/L	# 100
5) dichlorodifluoromethane	1.485	85	927645m	82.15	ug/L	
6) chloromethane	1.609	50	563978	87.18	ug/L	98
7) vinyl chloride	1.717	62	562497	87.49	ug/L	98
8) bromomethane	2.001	96	346152	86.82	ug/L	99
9) chloroethane	2.093	64	202407	88.81	ug/L	98
10) ethyl ether	2.591	59	196157	93.85	ug/L	99
11) acetonitrile	3.274	41	544813	98.14	ug/L	# 21
12) trichlorofluoromethane	2.332	101	838569	88.48	ug/L	99
13) freon-113	2.894	101	438885	90.56	ug/L	96
14) acrolein	2.737	56	127007	463.23	ug/L	100
15) 1,1-dichloroethene	2.848	96	318735	93.30	ug/L	99
16) acetone	2.890	58	43153	90.38	ug/L	# 75
17) Methyl Acetate	3.262	43	144157	97.33	ug/L	98
18) methylene chloride	3.443	84	324150	95.29	ug/L	92
19) methyl tert butyl ether	3.823	73	596355	100.27	ug/L	96
20) acrylonitrile	3.759	53	82803	98.77	ug/L	94
21) allyl chloride	3.274	41	544813	98.14	ug/L	93
22) trans-1,2-dichloroethene	3.814	96	305252	97.15	ug/L	99
23) iodomethane	3.014	142	808450	94.60	ug/L	97
24) carbon disulfide	3.098	76	1037992	98.95	ug/L	99
25) propionitrile	5.622	54	22015	108.50	ug/L	100
26) vinyl acetate	4.558	43	784436	103.24	ug/L	99
27) chloroprene	4.600	53	442352	100.47	ug/L	99
28) di-isopropyl ether	4.586	45	1005466	100.36	ug/L	98
29) methacrylonitrile	5.896	41	105465	103.15	ug/L	95
30) 2-butanone	5.511	72	22397	104.77	ug/L	# 56
31) Hexane	4.233	41	285549	95.28	ug/L	97
32) 1,1-dichloroethane	4.488	63	563688	99.19	ug/L	99
33) tert-butyl ethyl ether	5.252	59	662569	102.91	ug/L	98
34) isobutyl alcohol	4.558	43	784436	516.19	ug/L	97
35) 2,2-dichloropropane	5.527	77	374024	107.96	ug/L	98
36) cis-1,2-dichloroethene	5.509	96	270688	100.77	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
 Data File : v33449.D
 Acq On : 1 Aug 2014 12:30 pm
 Operator : amym
 Sample : ic1226-100
 Misc : MS32359,MSV1226,,,,,5,1
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 01 13:31:35 2014
 Quant Method : C:\msdchem\1\METHODS\v140801w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Aug 01 13:11:19 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) ethyl acetate	4.557	43	784417m	103.24	ug/L	
38) bromochloromethane	5.931	128	135275	102.73	ug/L	92
39) chloroform	6.149	83	490445	102.95	ug/L	97
41) Tetrahydrofuran	5.940	42	38300	104.55	ug/L	90
42) 1,1,1-trichloroethane	6.395	97	478098	104.70	ug/L	97
44) Cyclohexane	6.503	56	474140	97.33	ug/L	99
45) carbon tetrachloride	6.651	117	475553	106.79	ug/L	100
46) 1,1-dichloropropene	6.665	75	327053	103.76	ug/L	96
47) benzene	6.984	78	789757	103.06	ug/L	99
48) 1,2-dichloroethane	7.109	62	348084	103.45	ug/L	98
49) tert-amyl methyl ether	7.274	73	387959	109.14	ug/L	94
50) heptane	7.545	43	271983	101.38	ug/L	93
51) trichloroethene	8.021	95	238650	105.37	ug/L	96
52) 1,2-dichloropropane	8.370	63	229557	104.84	ug/L	98
53) dibromomethane	8.473	93	120863	106.22	ug/L	95
54) bromodichloromethane	8.725	83	273977	111.65	ug/L	100
55) Methylcyclohexane	8.325	83	315710	102.39	ug/L	99
56) 2-chloroethyl vinyl ether	9.101	63	64286	109.64	ug/L	99
57) methyl methacrylate	8.504	69	71753	115.58	ug/L	82
58) 1,4-dioxane	8.484	88	3506	824.76	ug/L	94
59) cis-1,3-dichloropropene	9.253	75	254251	114.46	ug/L	98
61) 4-methyl-2-pentanone	9.438	43	134538	105.41	ug/L	94
62) toluene	9.618	92	438799	106.46	ug/L	100
63) trans-1,3-dichloropropene	9.906	75	185306	118.11	ug/L	99
64) 1,1,2-trichloroethane	10.112	83	109438	106.49	ug/L	99
65) ethyl methacrylate	9.985	69	147481	111.92	ug/L	88
67) tetrachloroethene	10.171	166	227507	106.51	ug/L	95
68) 1,3-dichloropropane	10.273	76	203664	106.53	ug/L	100
69) dibromochloromethane	10.494	129	176075	117.26	ug/L	99
70) 1,2-dibromoethane	10.603	107	133615	106.56	ug/L	98
71) 2-hexanone	10.347	43	126513	101.27	ug/L	91
72) chlorobenzene	11.100	112	482466	103.87	ug/L	98
73) 1,1,1,2-tetrachloroethane	11.200	131	228519	110.71	ug/L	98
74) ethylbenzene	11.205	91	871623	106.55	ug/L	100
75) m,p-xylene	11.336	106	686299	219.00	ug/L	96
76) o-xylene	11.703	106	354730	110.35	ug/L	98
77) styrene	11.723	104	537297	110.87	ug/L	99
78) bromoform	11.897	173	93844	130.03	ug/L	99
79) trans-1,4-dichloro-2-b...	12.114	53	47538	120.40	ug/L	79
81) isopropylbenzene	12.055	105	949461	88.37	ug/L	99
83) bromobenzene	12.345	156	235769	88.91	ug/L	96
84) 1,1,2,2-tetrachloroethane	12.350	83	149180	89.12	ug/L	99
85) 1,2,3-trichloropropane	12.390	75	181182	93.68	ug/L	99
86) n-propylbenzene	12.443	91	1072120	89.89	ug/L	100
87) 2-chlorotoluene	12.522	91	673855	91.56	ug/L	99
88) 4-chlorotoluene	12.633	91	794176	94.80	ug/L	98
89) 1,3,5-trimethylbenzene	12.613	105	914058	95.58	ug/L	98
90) tert-butylbenzene	12.898	91	490453	96.74	ug/L	97
91) 1,2,4-trimethylbenzene	12.953	105	923836	97.01	ug/L	99
92) sec-butylbenzene	13.102	105	1087085	99.56	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
 Data File : v33449.D
 Acq On : 1 Aug 2014 12:30 pm
 Operator : amym
 Sample : ic1226-100
 Misc : MS32359,MSV1226,,,,,5,1
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 01 13:31:35 2014
 Quant Method : C:\msdchem\1\METHODS\v140801w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Aug 01 13:11:19 2014
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93)	1,3-dichlorobenzene	13.210	146	505575	99.86	ug/L	97
94)	p-isopropyltoluene	13.243	119	1019807	103.46	ug/L	98
95)	1,4-dichlorobenzene	13.305	146	533776	104.85	ug/L	99
96)	1,2-dichlorobenzene	13.622	146	508691	105.07	ug/L	98
97)	n-butylbenzene	13.607	91	842455	102.83	ug/L	94
98)	1,2-dibromo-3-chloropr...	14.323	75	23564	115.20	ug/L	92
99)	1,3,5-trichlorobenzene	14.488	180	368316	101.44	ug/L	100
100)	1,2,4-trichlorobenzene	15.043	180	289607	98.16	ug/L	100
101)	hexachlorobutadiene	15.165	225	112670	98.98	ug/L	95
102)	naphthalene	15.277	128	453656	103.06	ug/L	100
103)	1,2,3-trichlorobenzene	15.466	180	239779	100.18	ug/L	100
104)	2-Methylnaphthalene	16.274	142	83465	54.31	ug/L	98
105)	1-Methylnaphthalene	16.444	142	65937	51.42	ug/L	100

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

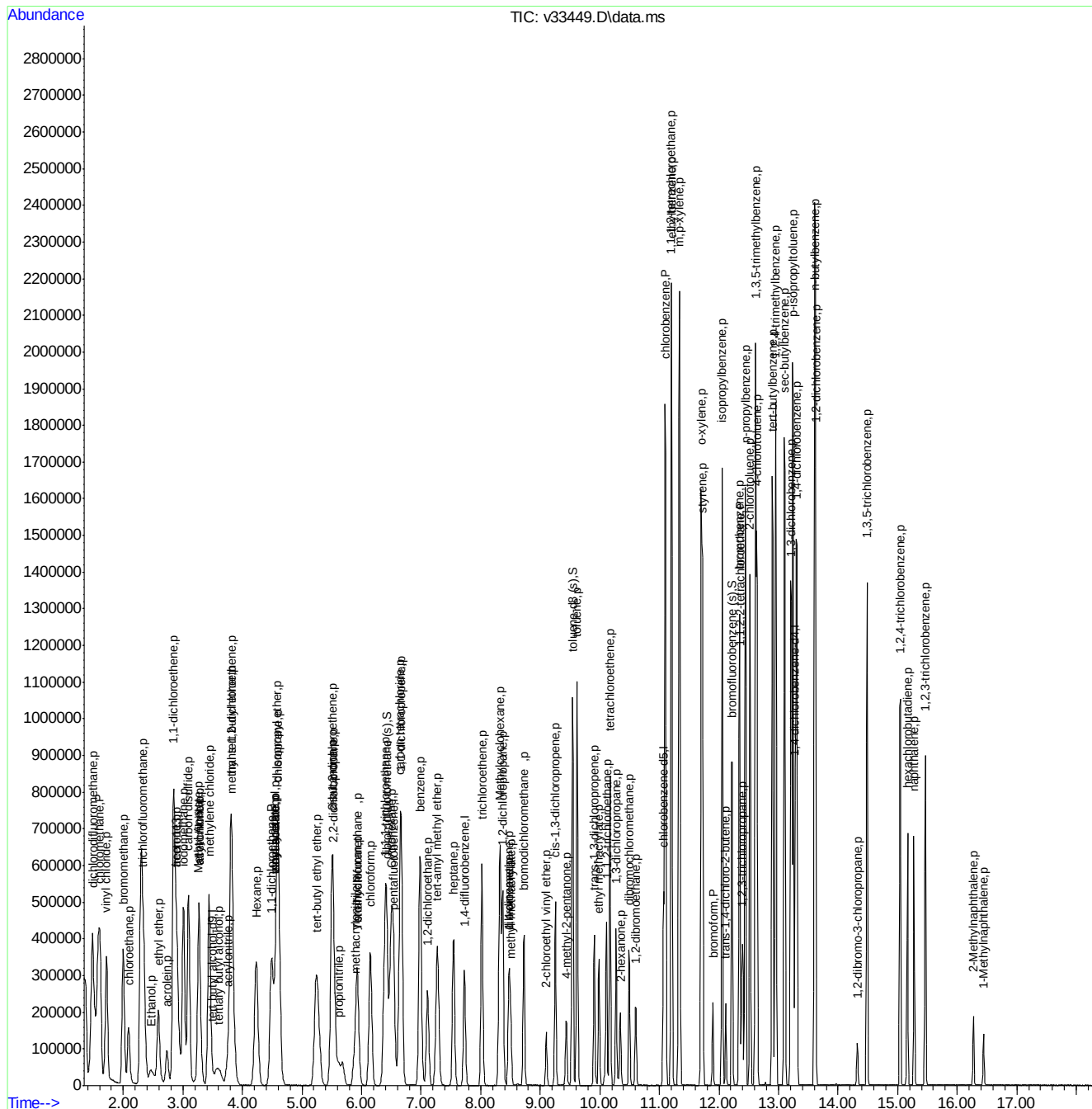
7.6.20

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Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33449.D
Acq On : 1 Aug 2014 12:30 pm
Operator : amym
Sample : ic1226-100
Misc : MS32359,MSV1226,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 01 13:31:35 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



v140801w.m Mon Aug 04 12:42:52 2014

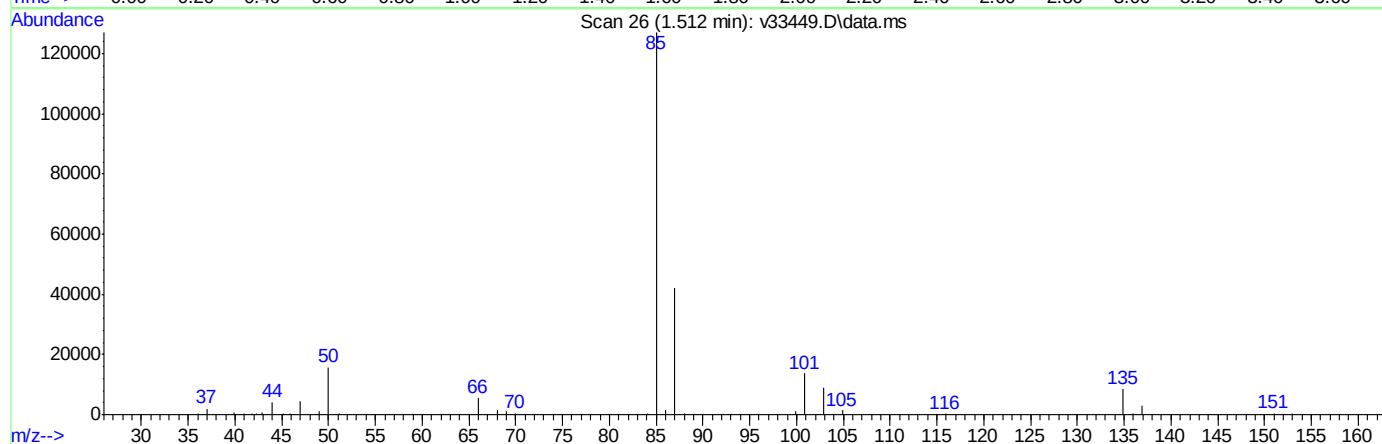
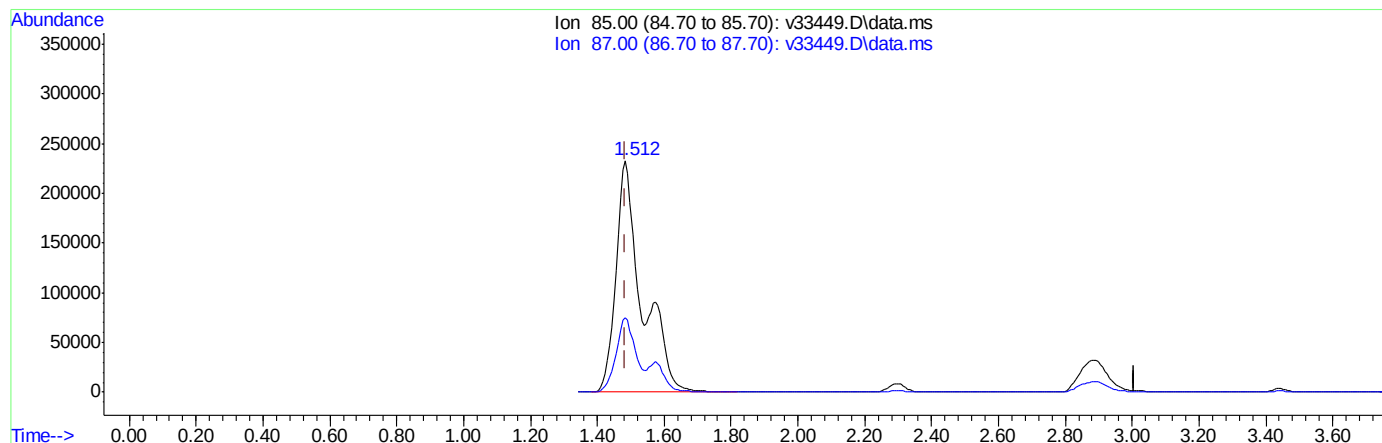
Page: 4

7.6.20

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33449.D
Acq On : 1 Aug 2014 12:30 pm
Operator : amym
Sample : ic1226-100
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 01 13:12:04 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



TIC: v33449.D\data.ms

(5) dichlorodifluoromethane (p)

1.512min (+0.027) 109.44ug/L

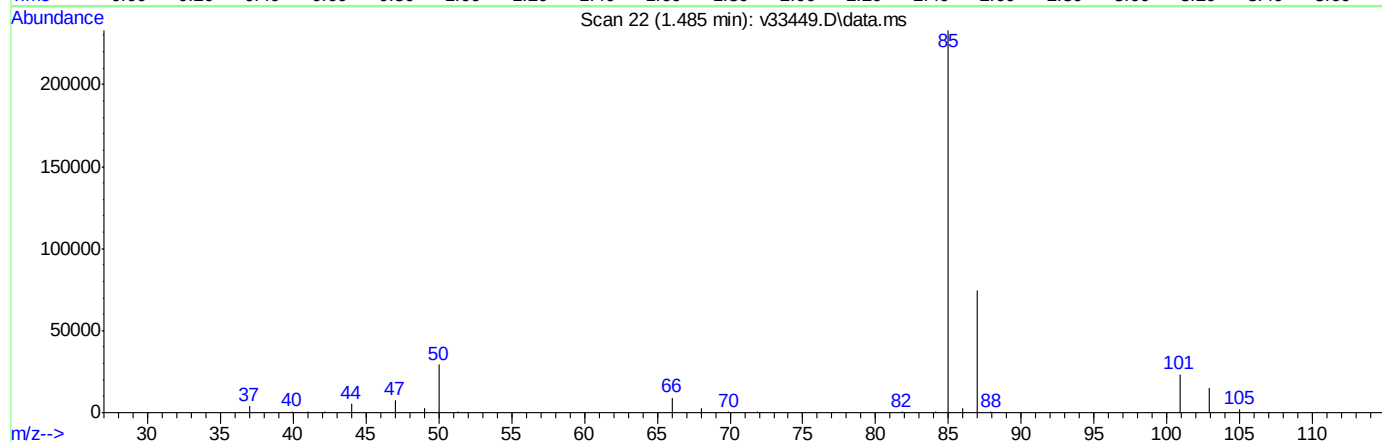
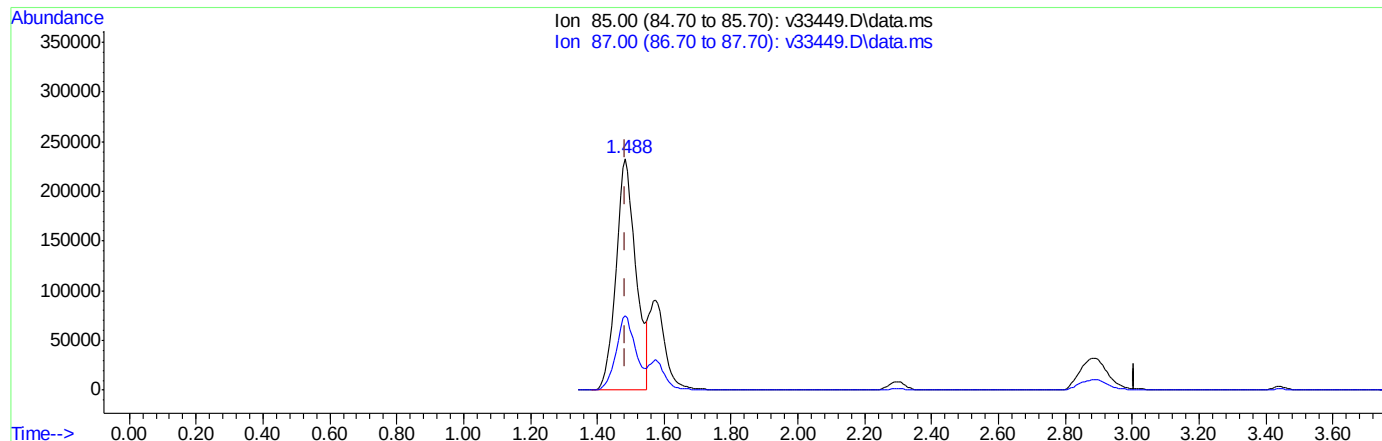
response 1235727

Ion	Exp%	Act%
85.00	100	100
87.00	33.00	33.27
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33449.D
Acq On : 1 Aug 2014 12:30 pm
Operator : amym
Sample : ic1226-100
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 01 13:12:04 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



TIC: v33449.D\data.ms

(5) dichlorodifluoromethane (p)

1.485min (-0.000) 82.15ug/L m

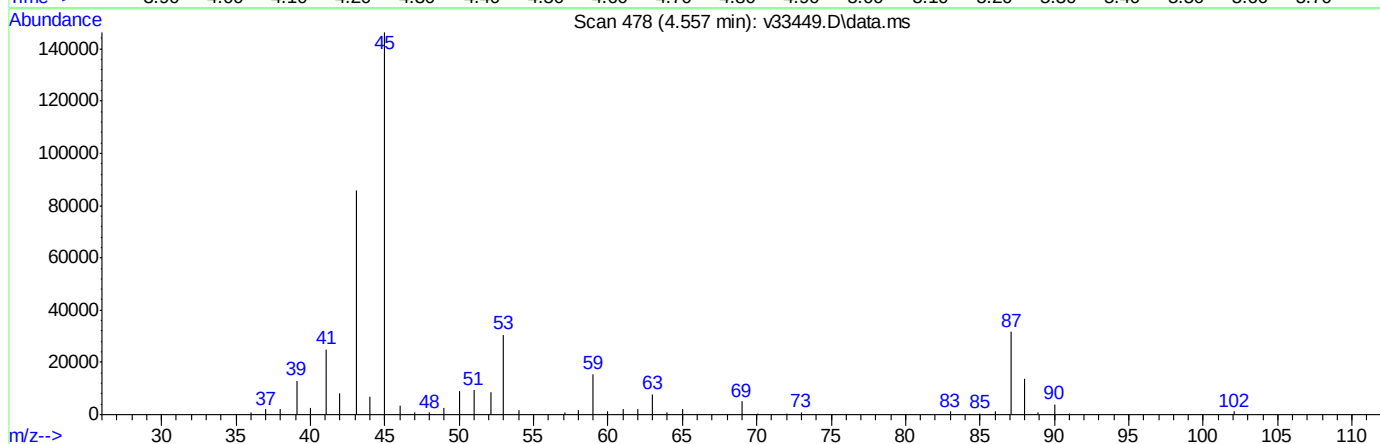
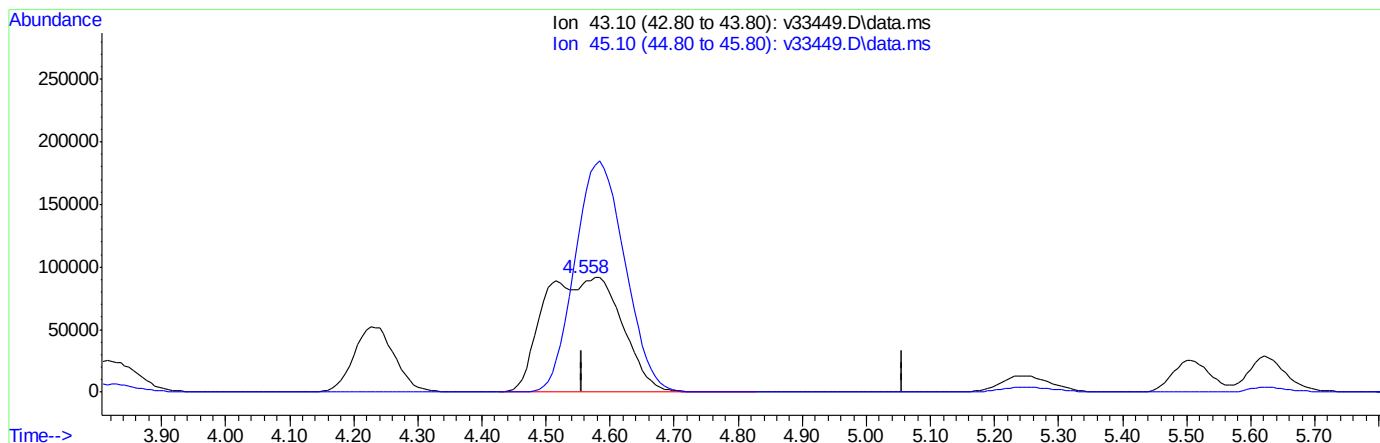
response 927645

Ion	Exp%	Act%
85.00	100	100
87.00	33.00	31.88
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33449.D
Acq On : 1 Aug 2014 12:30 pm
Operator : amym
Sample : ic1226-100
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 01 13:12:04 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



(37) ethyl acetate (p)

4.557min (-0.000) 103.24ug/L m

response 784417

Ion	Exp%	Act%
43.10	100	100
45.10	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
 Data File : v33451.D
 Acq On : 1 Aug 2014 2:03 pm
 Operator : amym
 Sample : ic1226-200
 Misc : MS32359,MSV1226,,,,5,1
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 01 14:31:47 2014
 Quant Method : C:\msdchem\1\METHODS\v140801w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Aug 01 13:35:50 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.508	65	118213	50.00	ug/L	# 0.01
4) pentafluorobenzene	6.544	168	566855	50.00	ug/L	0.00
43) 1,4-difluorobenzene	7.730	114	786811	50.00	ug/L	0.00
66) chlorobenzene-d5	11.072	82	328611	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	13.284	152	422691	50.00	ug/L	0.00

System Monitoring Compounds						
40) dibromofluoromethane (s)	6.424	113	1211182	203.16	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	406.32%#
60) toluene-d8 (s)	9.544	98	3329888	218.71	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	437.42%#
82) bromofluorobenzene (s)	12.221	95	1420156	194.38	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	388.76%#

Target Compounds						Qvalue
2) tertiary butyl alcohol	3.616	59	426637	182.86	ug/L	# 66
3) Ethanol	2.489	45	304542	596.22	ug/L	# 100
5) dichlorodifluoromethane	1.498	85	2342019m	101.08	ug/L	
6) chloromethane	1.621	50	1520384	112.56	ug/L	98
7) vinyl chloride	1.728	62	1506921	114.03	ug/L	98
8) bromomethane	2.011	96	941384	112.62	ug/L	100
9) chloroethane	2.101	64	572311	116.99	ug/L	100
10) ethyl ether	2.595	59	525476	100.89	ug/L	92
11) acetonitrile	3.281	41	1786507	137.97	ug/L	# 23
12) trichlorofluoromethane	2.339	101	2339437	120.32	ug/L	100
13) freon-113	2.900	101	1358292	150.95	ug/L	96
14) acrolein	2.745	56	391097	499.75	ug/L	100
15) 1,1-dichloroethene	2.854	96	1012821	135.98	ug/L	97
16) acetone	2.898	58	141301	141.89	ug/L	# 77
17) Methyl Acetate	3.268	43	451576	125.83	ug/L	95
18) methylene chloride	3.449	84	1087969	130.38	ug/L	# 84
19) methyl tert butyl ether	3.829	73	2155399	148.04	ug/L	96
20) acrylonitrile	3.764	53	277425	142.69	ug/L	96
21) allyl chloride	3.281	41	1786507	137.98	ug/L	89
22) trans-1,2-dichloroethene	3.820	96	1088966	149.39	ug/L	97
23) iodomethane	3.020	142	2591997	127.34	ug/L	96
24) carbon disulfide	3.104	76	3454920	159.49	ug/L	99
25) propionitrile	5.627	54	90914	194.93	ug/L	100
26) vinyl acetate	4.561	43	2920631	157.93	ug/L	100
27) chloroprene	4.606	53	1624278	160.47	ug/L	94
28) di-isopropyl ether	4.592	45	3614862	151.74	ug/L	96
29) methacrylonitrile	5.901	41	425887	167.79	ug/L	94
30) 2-butanone	5.516	72	94988	189.66	ug/L	# 52
31) Hexane	4.238	41	1006271	158.54	ug/L	# 92
32) 1,1-dichloroethane	4.494	63	2120814	147.43	ug/L	99
33) tert-butyl ethyl ether	5.258	59	2743869	176.75	ug/L	98
34) isobutyl alcohol	4.561	43	2919671	530.79	ug/L	99
35) 2,2-dichloropropane	5.532	77	1652889	209.20	ug/L	97
36) cis-1,2-dichloroethene	5.514	96	1127775	171.22	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
 Data File : v33451.D
 Acq On : 1 Aug 2014 2:03 pm
 Operator : amym
 Sample : ic1226-200
 Misc : MS32359,MSV1226,,,,,5,1
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 01 14:31:47 2014
 Quant Method : C:\msdchem\1\METHODS\v140801w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Aug 01 13:35:50 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) ethyl acetate	4.563	43	2916118m	157.71	ug/L	
38) bromochloromethane	5.935	128	568873	175.62	ug/L	# 86
39) chloroform	6.153	83	2065117	171.65	ug/L	97
41) Tetrahydrofuran	5.944	42	156769	197.62	ug/L	91
42) 1,1,1-trichloroethane	6.399	97	2070969	199.55	ug/L	95
44) Cyclohexane	6.507	56	2004590	144.09	ug/L	97
45) carbon tetrachloride	6.654	117	2087695	202.85	ug/L	100
46) 1,1-dichloropropene	6.669	75	1446168	183.80	ug/L	96
47) benzene	6.988	78	3607425	151.62	ug/L	99
48) 1,2-dichloroethane	7.112	62	1501066	164.60	ug/L	98
49) tert-amyl methyl ether	7.277	73	1896294	195.74	ug/L	93
50) heptane	7.547	43	1194158	188.14	ug/L	90
51) trichloroethene	8.023	95	1143072	180.53	ug/L	96
52) 1,2-dichloropropane	8.372	63	1105351	187.88	ug/L	99
53) dibromomethane	8.475	93	577293	181.77	ug/L	89
54) bromodichloromethane	8.727	83	1371778	209.72	ug/L	99
55) Methylcyclohexane	8.328	83	1488042	198.39	ug/L	96
56) 2-chloroethyl vinyl ether	9.102	63	319391	228.31	ug/L	97
57) methyl methacrylate	8.505	69	367564	204.47	ug/L	# 77
58) 1,4-dioxane	8.492	88	22804	987.08	ug/L	98
59) cis-1,3-dichloropropene	9.255	75	1333531	227.19	ug/L	99
61) 4-methyl-2-pentanone	9.439	43	659336	196.82	ug/L	91
62) toluene	9.620	92	2329855	199.45	ug/L	100
63) trans-1,3-dichloropropene	9.907	75	1039185	255.57	ug/L	98
64) 1,1,2-trichloroethane	10.114	83	566805	202.28	ug/L	100
65) ethyl methacrylate	9.987	69	806398	214.91	ug/L	85
67) tetrachloroethene	10.174	166	1249737	196.83	ug/L	93
68) 1,3-dichloropropane	10.275	76	1082459	186.14	ug/L	99
69) dibromochloromethane	10.495	129	996653	247.94	ug/L	99
70) 1,2-dibromoethane	10.604	107	715442	197.46	ug/L	97
71) 2-hexanone	10.347	43	698187	207.96	ug/L	87
72) chlorobenzene	11.102	112	2610804	183.59	ug/L	98
73) 1,1,1,2-tetrachloroethane	11.202	131	1279402	229.41	ug/L	98
74) ethylbenzene	11.207	91	4779594	186.87	ug/L	99
75) m,p-xylene	11.338	106	3800926	353.26	ug/L	97
76) o-xylene	11.704	106	1968262	199.91	ug/L	95
77) styrene	11.725	104	3040786	207.54	ug/L	100
78) bromoform	11.899	173	573316	232.30	ug/L	99
79) trans-1,4-dichloro-2-b...	12.116	53	265692	207.88	ug/L	63
81) isopropylbenzene	12.057	105	5367464	186.38	ug/L	99
83) bromobenzene	12.347	156	1333624	175.79	ug/L	98
84) 1,1,2,2-tetrachloroethane	12.352	83	813606	178.20	ug/L	99
85) 1,2,3-trichloropropane	12.391	75	1023254	197.87	ug/L	100
86) n-propylbenzene	12.445	91	6062200	185.83	ug/L	100
87) 2-chlorotoluene	12.524	91	3756743	178.22	ug/L	99
88) 4-chlorotoluene	12.635	91	4254812	176.78	ug/L	98
89) 1,3,5-trimethylbenzene	12.615	105	5071988	191.87	ug/L	98
90) tert-butylbenzene	12.900	91	2753581	203.56	ug/L	98
91) 1,2,4-trimethylbenzene	12.955	105	5026943	188.94	ug/L	99
92) sec-butylbenzene	13.104	105	5927837	203.43	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33451.D
Acq On : 1 Aug 2014 2:03 pm
Operator : amym
Sample : ic1226-200
Misc : MS32359,MSV1226,,,,,5,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 01 14:31:47 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:35:50 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93)	1,3-dichlorobenzene	13.212	146	2702098	178.99	ug/L	98
94)	p-isopropyltoluene	13.244	119	5342278	199.80	ug/L	98
95)	1,4-dichlorobenzene	13.307	146	2678669	175.50	ug/L	99
96)	1,2-dichlorobenzene	13.623	146	2493341	174.42	ug/L	99
97)	n-butylbenzene	13.609	91	4270410	193.04	ug/L	95
98)	1,2-dibromo-3-chloropr...	14.325	75	120082	209.62	ug/L	85
99)	1,3,5-trichlorobenzene	14.489	180	1932840	181.52	ug/L	99
100)	1,2,4-trichlorobenzene	15.045	180	1544715	183.71	ug/L	97
101)	hexachlorobutadiene	15.166	225	660826	189.78	ug/L	97
102)	naphthalene	15.279	128	2364220	198.27	ug/L	100
103)	1,2,3-trichlorobenzene	15.467	180	1268642	186.48	ug/L	99
104)	2-Methylnaphthalene	16.276	142	429778	105.99	ug/L	98
105)	1-Methylnaphthalene	16.446	142	315066	97.83	ug/L	99

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

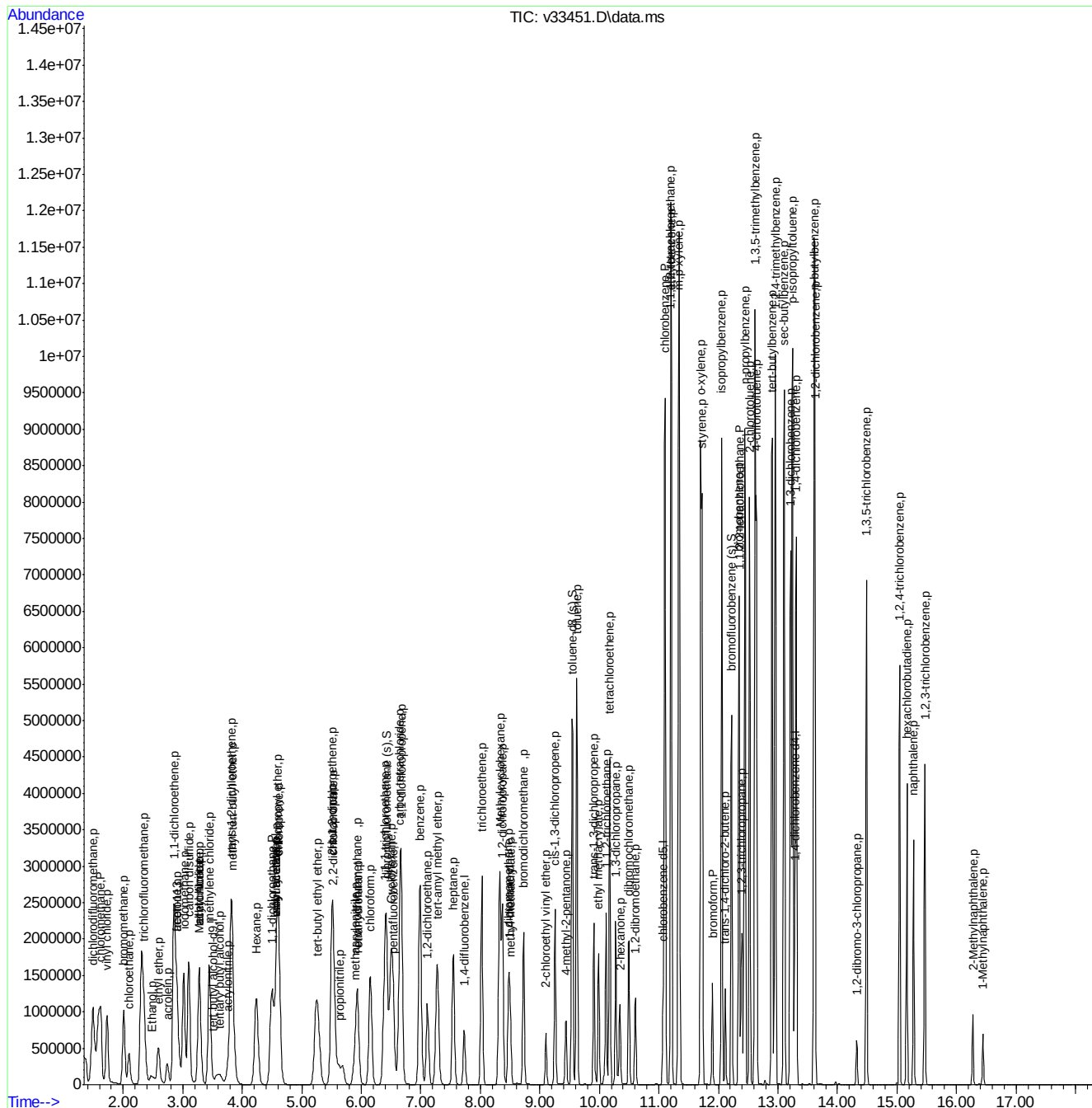
7.6.21

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33451.D
Acq On : 1 Aug 2014 2:03 pm
Operator : amym
Sample : ic1226-200
Misc : MS32359,MSV1226,,,5,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 01 14:31:47 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:35:50 2014
Response via : Initial Calibration



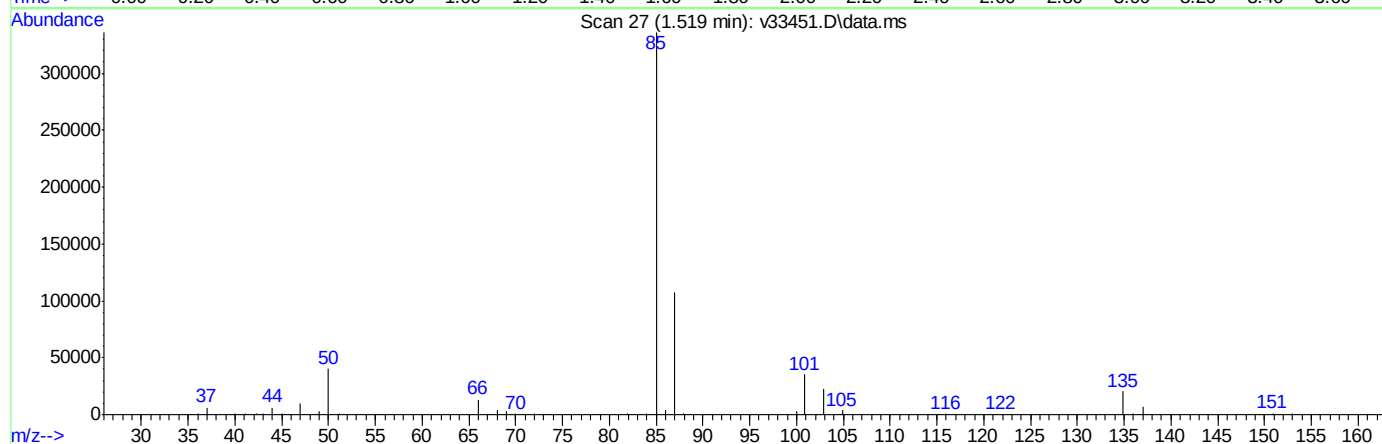
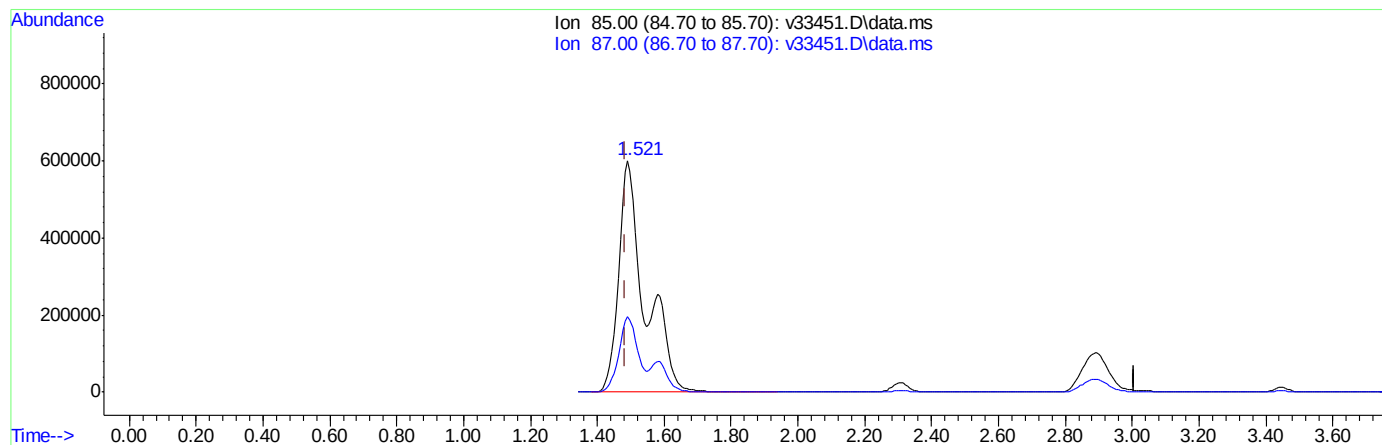
7.6.21



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33451.D
Acq On : 1 Aug 2014 2:03 pm
Operator : amym
Sample : ic1226-200
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 01 14:31:15 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:35:50 2014
Response via : Initial Calibration



TIC: v33451.D\data.ms

(5) dichlorodifluoromethane (p)

1.521min (+0.036) 137.57ug/L

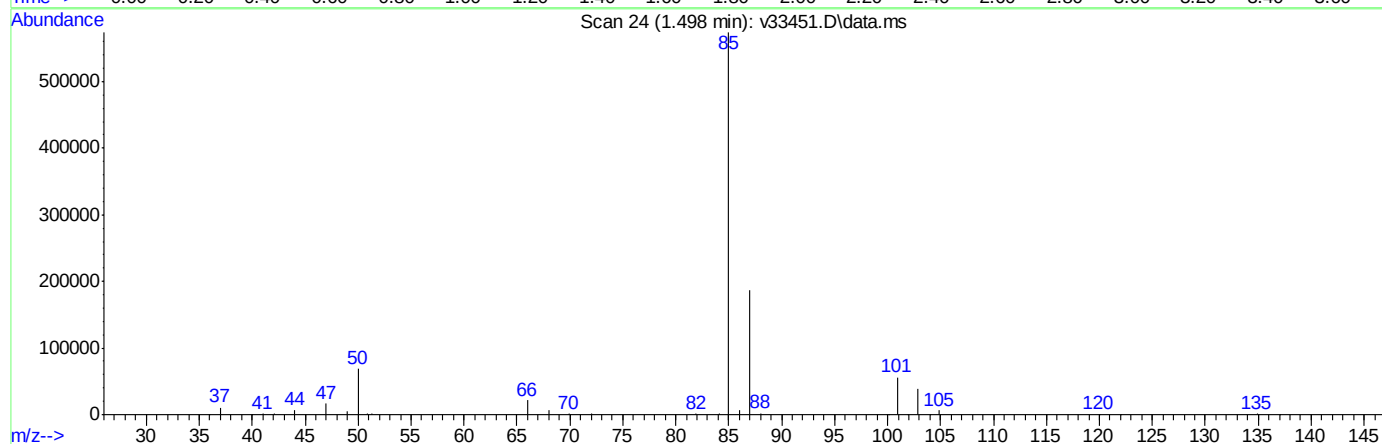
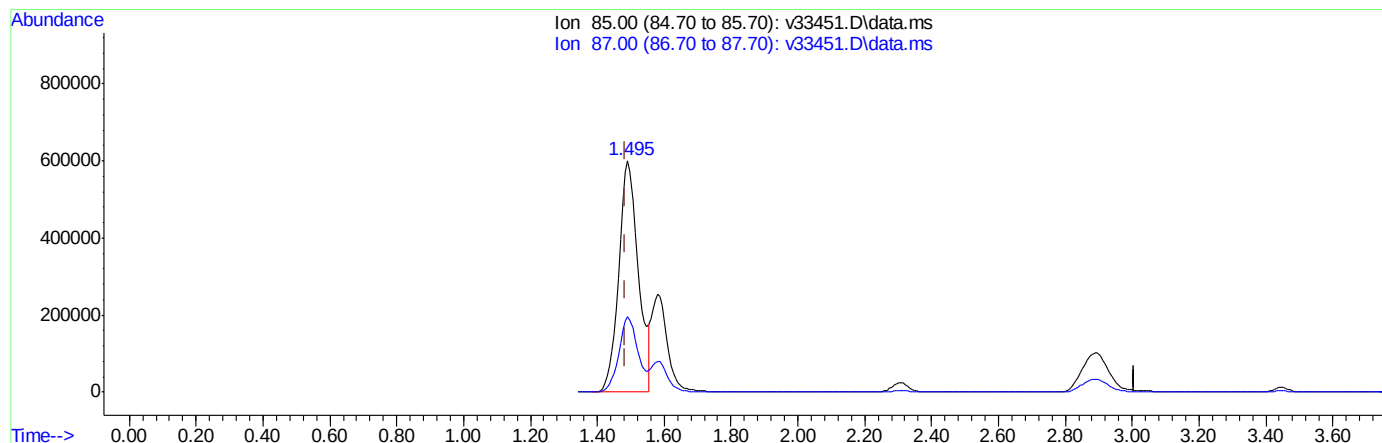
response 3187376

Ion	Exp%	Act%
85.00	100	100
87.00	33.00	31.92
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33451.D
Acq On : 1 Aug 2014 2:03 pm
Operator : amym
Sample : ic1226-200
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 01 14:31:15 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:35:50 2014
Response via : Initial Calibration



TIC: v33451.D\data.ms

(5) dichlorodifluoromethane (p)

1.498min (+0.013) 101.08ug/L m

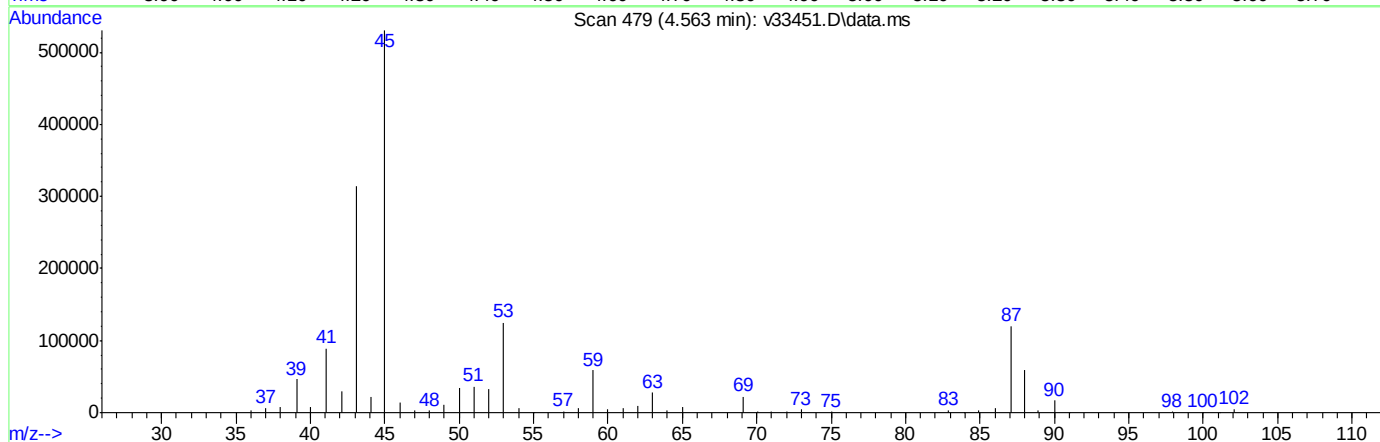
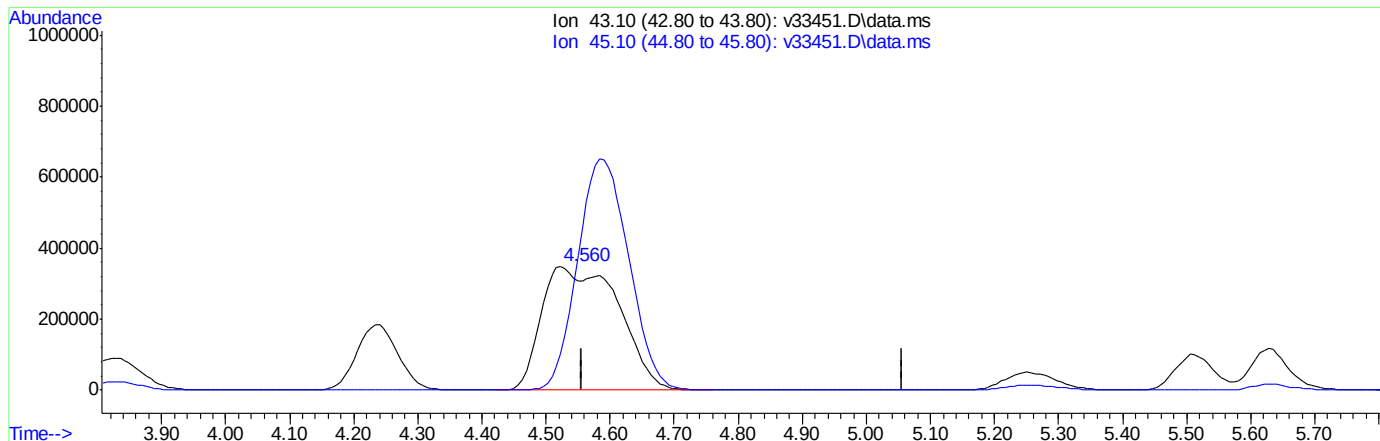
response 2342019

Ion	Exp%	Act%
85.00	100	100
87.00	33.00	32.69
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33451.D
Acq On : 1 Aug 2014 2:03 pm
Operator : amym
Sample : ic1226-200
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 01 14:31:15 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:35:50 2014
Response via : Initial Calibration



TIC: v33451.D\data.ms

(37) ethyl acetate (p)

4.563min (+0.007) 157.71ug/L m

response 2916118

Ion	Exp%	Act%
43.10	100	100
45.10	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
 Data File : v33452.D
 Acq On : 1 Aug 2014 2:29 pm
 Operator : amym
 Sample : ic1226-400
 Misc : MS32359,MSV1226,,,,5,1
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 01 15:30:37 2014
 Quant Method : C:\msdchem\1\METHODS\v140801w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Aug 01 14:32:25 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.506	65	116585	50.00	ug/L	# 0.01
4) pentafluorobenzene	6.542	168	533549	50.00	ug/L	0.00
43) 1,4-difluorobenzene	7.729	114	763198	50.00	ug/L	0.00
66) chlorobenzene-d5	11.072	82	339274	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	13.284	152	396882	50.00	ug/L	0.00

System Monitoring Compounds						
40) dibromofluoromethane (s)	6.421	113	2492943	447.40	ug/L	0.00
Spiked Amount 50.000	Range 70	- 130	Recovery	=	894.80%#	
60) toluene-d8 (s)	9.545	98	7206942	492.50	ug/L	0.00
Spiked Amount 50.000	Range 70	- 130	Recovery	=	985.00%#	
82) bromofluorobenzene (s)	12.221	95	2948469	434.96	ug/L	0.00
Spiked Amount 50.000	Range 70	- 130	Recovery	=	869.92%#	

Target Compounds						Qvalue
2) tertiary butyl alcohol	3.614	59	915256	479.38	ug/L	# 60
3) Ethanol	2.477	45	531169	1094.77	ug/L	# 100
5) dichlorodifluoromethane	1.485	85	4484272m	205.33	ug/L	
6) chloromethane	1.614	50	2942221	231.80	ug/L	97
7) vinyl chloride	1.718	62	2960560	237.20	ug/L	98
8) bromomethane	2.001	96	1704592	215.59	ug/L	100
9) chloroethane	2.090	64	1046603	225.82	ug/L	98
10) ethyl ether	2.588	59	973663	218.45	ug/L	90
11) acetonitrile	3.272	41	3250186	290.39	ug/L	# 22
12) trichlorofluoromethane	2.330	101	4379118	238.87	ug/L	98
13) freon-113	2.889	101	2606030	335.25	ug/L	95
14) acrolein	2.734	56	744992	1009.40	ug/L	99
15) 1,1-dichloroethene	2.844	96	1884209	289.10	ug/L	94
16) acetone	2.892	58	209672	245.24	ug/L	# 69
17) Methyl Acetate	3.260	43	861036	280.42	ug/L	# 93
18) methylene chloride	3.440	84	2075285	285.87	ug/L	# 81
19) methyl tert butyl ether	3.823	73	4378767	351.02	ug/L	94
20) acrylonitrile	3.756	53	533393	330.27	ug/L	97
21) allyl chloride	3.272	41	3250186	290.41	ug/L	87
22) trans-1,2-dichloroethene	3.812	96	2048407	325.86	ug/L	96
23) iodomethane	3.010	142	4938254	277.61	ug/L	95
24) carbon disulfide	3.093	76	6717829	362.69	ug/L	99
25) propionitrile	5.622	54	180418	518.60	ug/L	100
26) vinyl acetate	4.556	43	5562540	361.21	ug/L	100
27) chloroprene	4.600	53	3019502	358.07	ug/L	92
28) di-isopropyl ether	4.588	45	6839176	336.08	ug/L	96
29) methacrylonitrile	5.897	41	836002	413.23	ug/L	89
30) 2-butanone	5.514	72	161698	414.65	ug/L	# 41
31) Hexane	4.232	41	1800598	337.40	ug/L	# 88
32) 1,1-dichloroethane	4.488	63	4059484	325.19	ug/L	100
33) tert-butyl ethyl ether	5.256	59	5550528	425.55	ug/L	98
34) isobutyl alcohol	4.556	43	5562789	1152.63	ug/L	99
35) 2,2-dichloropropane	5.529	77	3145937	496.68	ug/L	97
36) cis-1,2-dichloroethene	5.510	96	2194928	394.32	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
 Data File : v33452.D
 Acq On : 1 Aug 2014 2:29 pm
 Operator : amym
 Sample : ic1226-400
 Misc : MS32359,MSV1226,,,,,5,1
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 01 15:30:37 2014
 Quant Method : C:\msdchem\1\METHODS\v140801w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Aug 01 14:32:25 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) ethyl acetate	4.557	43	5553788m	360.72	ug/L	
38) bromochloromethane	5.931	128	1148085	432.48	ug/L #	84
39) chloroform	6.150	83	4055478	403.67	ug/L	99
41) Tetrahydrofuran	5.940	42	307848	498.51	ug/L	84
42) 1,1,1-trichloroethane	6.398	97	4209070	489.00	ug/L	97
44) Cyclohexane	6.506	56	4000378	326.38	ug/L	94
45) carbon tetrachloride	6.651	117	4289697	502.60	ug/L	100
46) 1,1-dichloropropene	6.667	75	2814896	419.05	ug/L	96
47) benzene	6.986	78	7251745	344.30	ug/L	100
48) 1,2-dichloroethane	7.111	62	2977766	383.43	ug/L	98
49) tert-amyl methyl ether	7.277	73	4052272	498.11	ug/L	92
50) heptane	7.546	43	2210353	408.31	ug/L	85
51) trichloroethene	8.023	95	2286844	416.25	ug/L	97
52) 1,2-dichloropropane	8.372	63	2217651	444.89	ug/L	99
53) dibromomethane	8.475	93	1182192	452.24	ug/L	88
54) bromodichloromethane	8.727	83	2859441	533.20	ug/L	99
55) Methylcyclohexane	8.329	83	3052906	489.37	ug/L	94
56) 2-chloroethyl vinyl ether	9.103	63	714621	537.65	ug/L	98
57) methyl methacrylate	8.505	69	780441	560.97	ug/L #	75
58) 1,4-dioxane	8.494	88	50153	3128.17	ug/L	80
59) cis-1,3-dichloropropene	9.255	75	2839738	583.65	ug/L	98
61) 4-methyl-2-pentanone	9.438	43	1326909	482.08	ug/L	90
62) toluene	9.620	92	4784645	485.77	ug/L	100
63) trans-1,3-dichloropropene	9.907	75	2258094	693.03	ug/L	98
64) 1,1,2-trichloroethane	10.114	83	1224210	528.72	ug/L	99
65) ethyl methacrylate	9.986	69	1750221	606.61	ug/L	81
67) tetrachloroethene	10.174	166	2618444	448.98	ug/L	92
68) 1,3-dichloropropane	10.275	76	2299524	438.91	ug/L	100
69) dibromochloromethane	10.495	129	2216336	639.39	ug/L	99
70) 1,2-dibromoethane	10.604	107	1556373	481.60	ug/L	97
71) 2-hexanone	10.346	43	1119246	375.04	ug/L	85
72) chlorobenzene	11.101	112	5402969	414.43	ug/L	98
73) 1,1,1,2-tetrachloroethane	11.202	131	2665428	542.40	ug/L	98
74) ethylbenzene	11.207	91	9392374	394.18	ug/L	98
75) m,p-xylene	11.338	106	7455951	739.83	ug/L	99
76) o-xylene	11.705	106	3998315	441.02	ug/L	99
77) styrene	11.725	104	6069877	458.94	ug/L	100
78) bromoform	11.899	173	1260907	645.65	ug/L	99
79) trans-1,4-dichloro-2-b...	12.116	53	544140	517.64	ug/L #	55
81) isopropylbenzene	12.057	105	10756398	453.35	ug/L	99
83) bromobenzene	12.346	156	2695309	429.10	ug/L	95
84) 1,1,2,2-tetrachloroethane	12.352	83	1640517	428.60	ug/L	99
85) 1,2,3-trichloropropane	12.391	75	2112184	521.32	ug/L	99
86) n-propylbenzene	12.445	91	11690046	432.83	ug/L	100
87) 2-chlorotoluene	12.524	91	7315113	417.92	ug/L	98
88) 4-chlorotoluene	12.635	91	8112589	404.97	ug/L	98
89) 1,3,5-trimethylbenzene	12.615	105	9792605	448.64	ug/L	99
90) tert-butylbenzene	12.900	91	5364517	487.55	ug/L	96
91) 1,2,4-trimethylbenzene	12.954	105	9606206	435.82	ug/L	99
92) sec-butylbenzene	13.103	105	11400714	475.48	ug/L	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
 Data File : v33452.D
 Acq On : 1 Aug 2014 2:29 pm
 Operator : amym
 Sample : ic1226-400
 Misc : MS32359,MSV1226,,,,,5,1
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 01 15:30:37 2014
 Quant Method : C:\msdchem\1\METHODS\v140801w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Aug 01 14:32:25 2014
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93)	1,3-dichlorobenzene	13.211	146	5171210	410.62	ug/L	97
94)	p-isopropyltoluene	13.244	119	10230236	464.27	ug/L	98
95)	1,4-dichlorobenzene	13.306	146	5144340	403.40	ug/L	99
96)	1,2-dichlorobenzene	13.623	146	4794558	399.97	ug/L	99
97)	n-butylbenzene	13.608	91	7869577	426.02	ug/L	93
98)	1,2-dibromo-3-chloropr...	14.324	75	270530	645.91	ug/L	82
99)	1,3,5-trichlorobenzene	14.489	180	3925905	443.79	ug/L	99
100)	1,2,4-trichlorobenzene	15.045	180	3318605	478.58	ug/L	97
101)	hexachlorobutadiene	15.166	225	1363717	495.37	ug/L	97
102)	naphthalene	15.278	128	5609677	590.65	ug/L	100
103)	1,2,3-trichlorobenzene	15.467	180	2900917	522.56	ug/L	100
104)	2-Methylnaphthalene	16.275	142	1163200	382.76	ug/L	99
105)	1-Methylnaphthalene	16.445	142	842480	334.80	ug/L	100

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

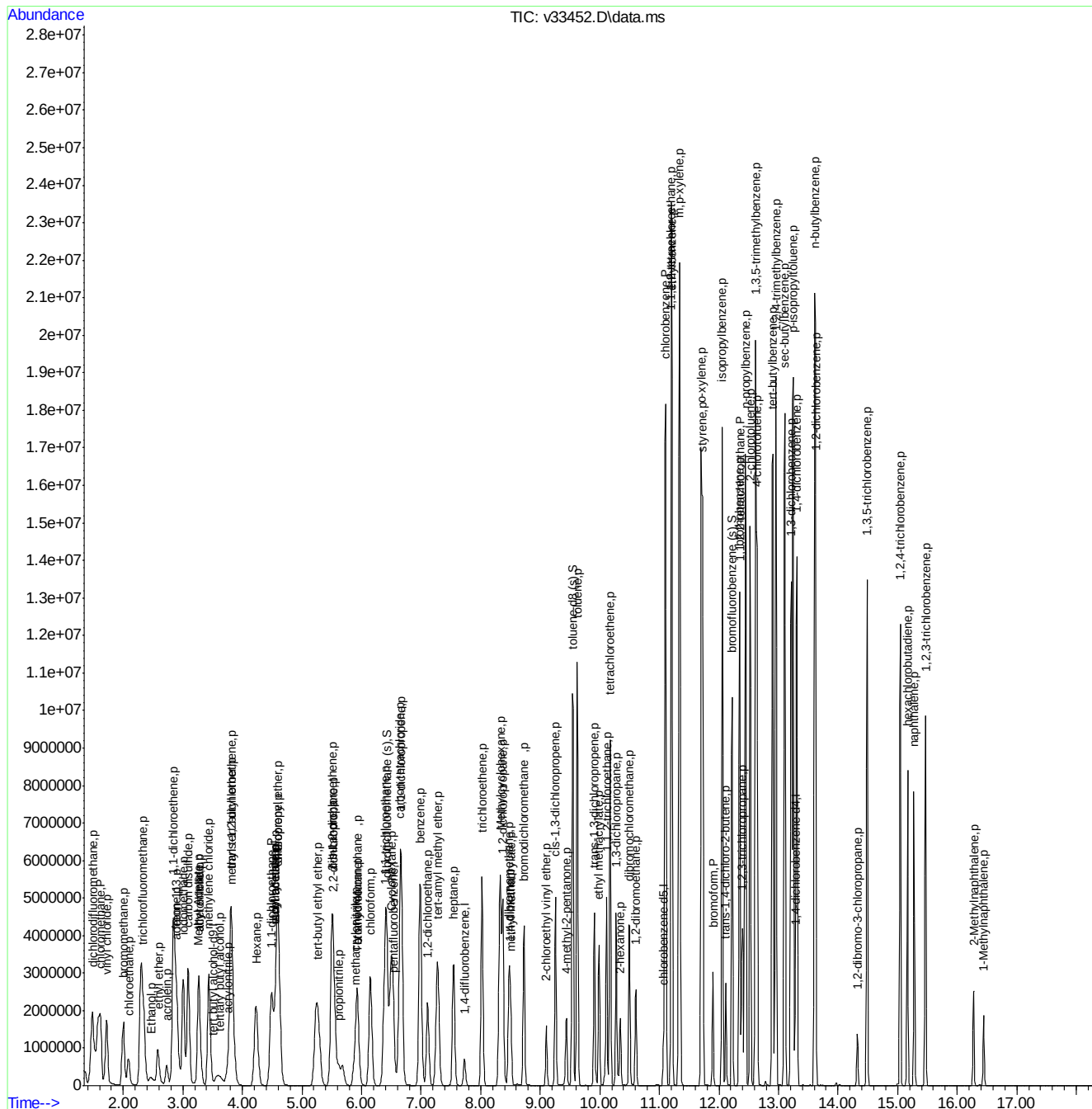
7.6.22

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33452.D
Acq On : 1 Aug 2014 2:29 pm
Operator : amym
Sample : ic1226-400
Misc : MS32359,MSV1226,,,5,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 01 15:30:37 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 14:32:25 2014
Response via : Initial Calibration



v140801w.m Mon Aug 04 12:43:33 2014

Page: 4

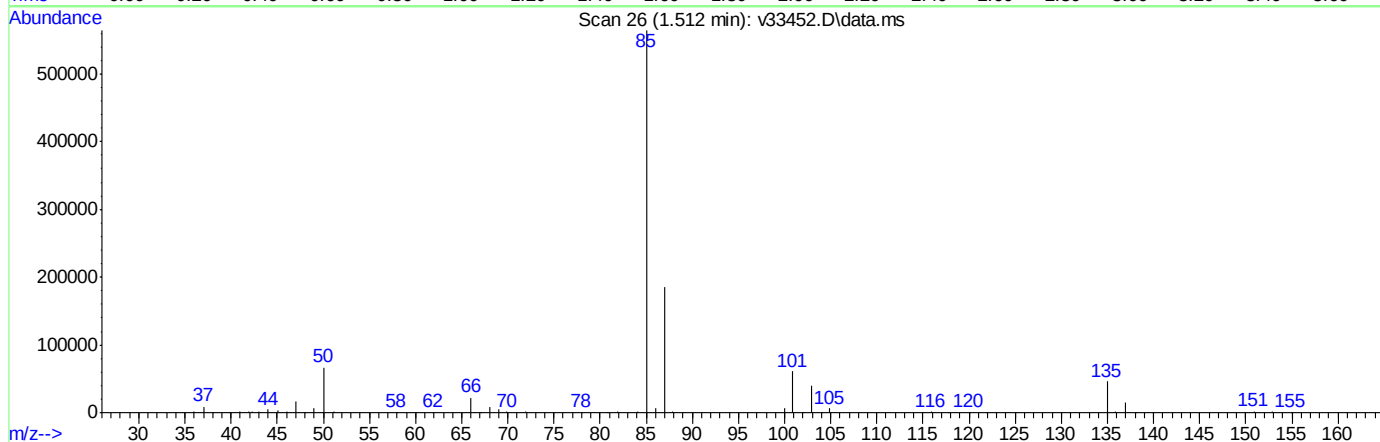
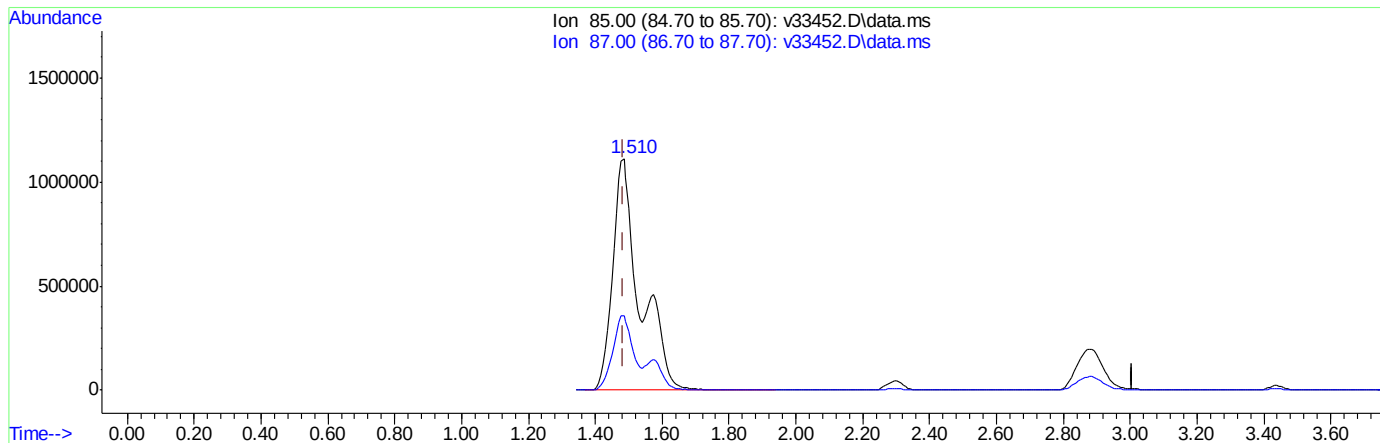
7.6.22



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33452.D
Acq On : 1 Aug 2014 2:29 pm
Operator : amym
Sample : ic1226-400
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 01 15:05:39 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 14:32:25 2014
Response via : Initial Calibration



TIC: v33452.D\data.ms

(5) dichlorodifluoromethane (p)

1.510min (+0.025) 280.33ug/L

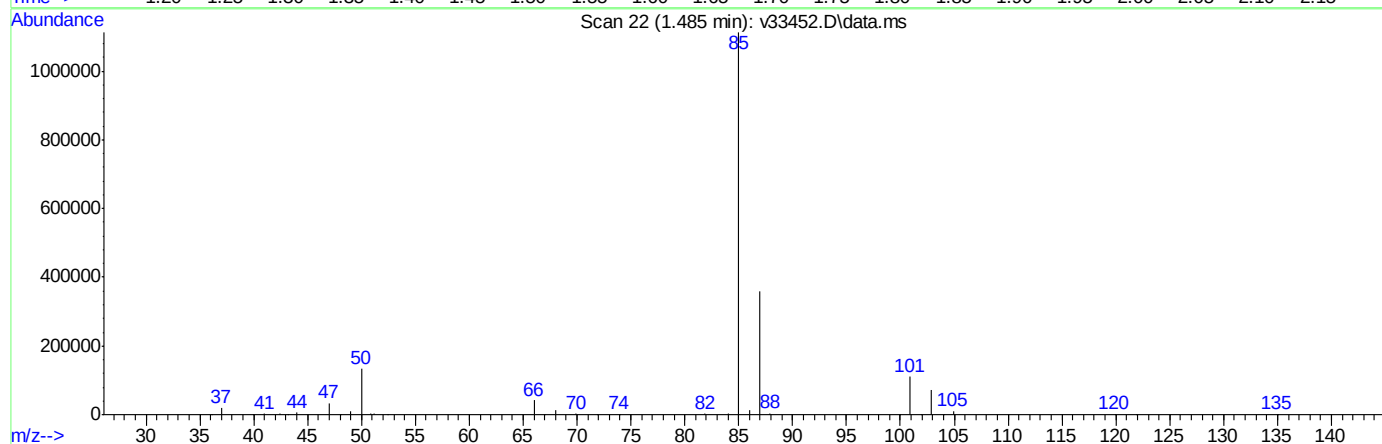
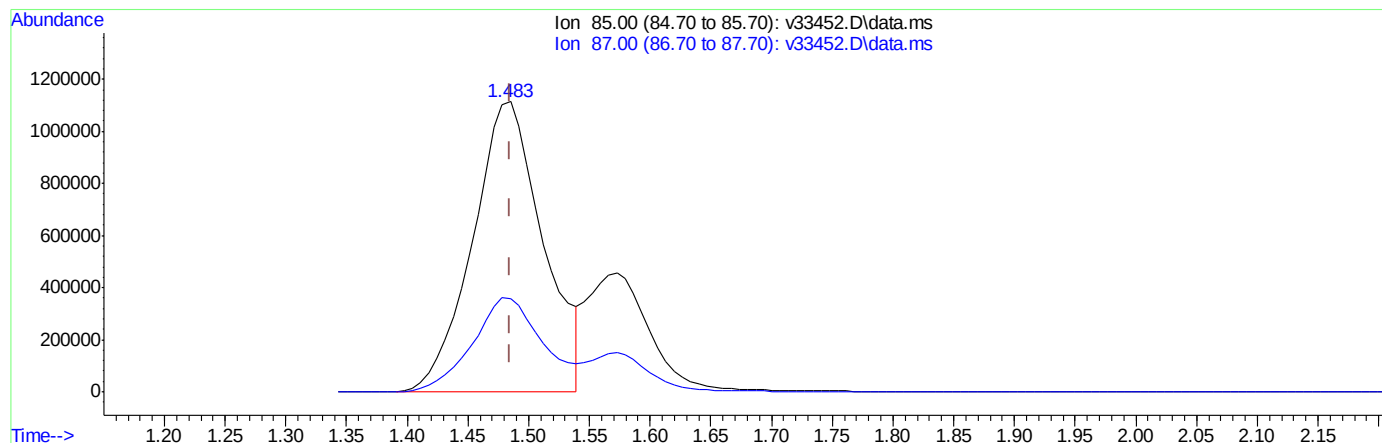
response 6122311

Ion	Exp%	Act%
85.00	100	100
87.00	33.00	32.77
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33452.D
Acq On : 1 Aug 2014 2:29 pm
Operator : amym
Sample : ic1226-400
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 01 15:05:39 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 14:32:25 2014
Response via : Initial Calibration



TIC: v33452.D\data.ms

(5) dichlorodifluoromethane (p)

1.485min (-0.000) 205.33ug/L m

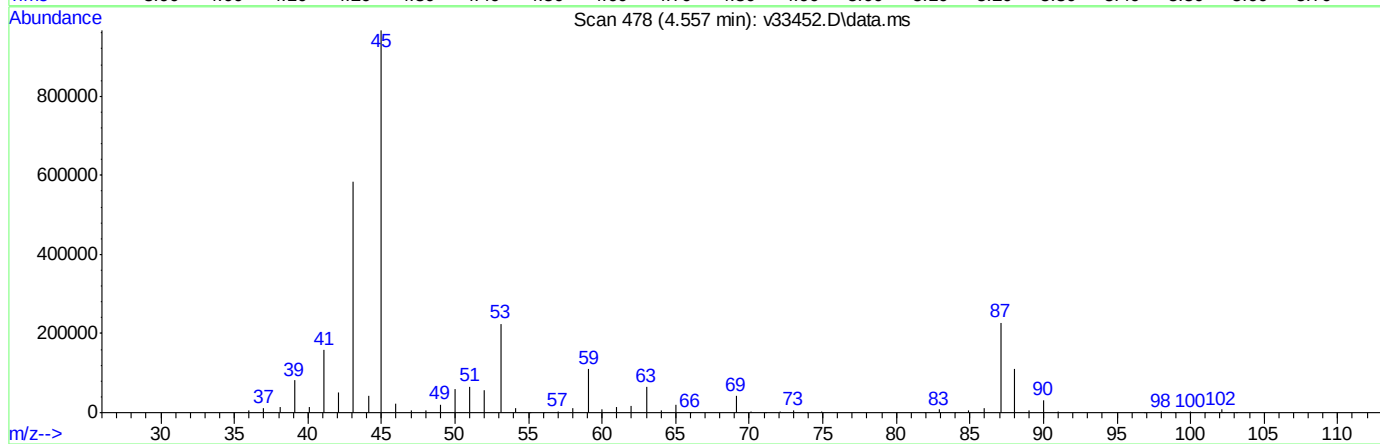
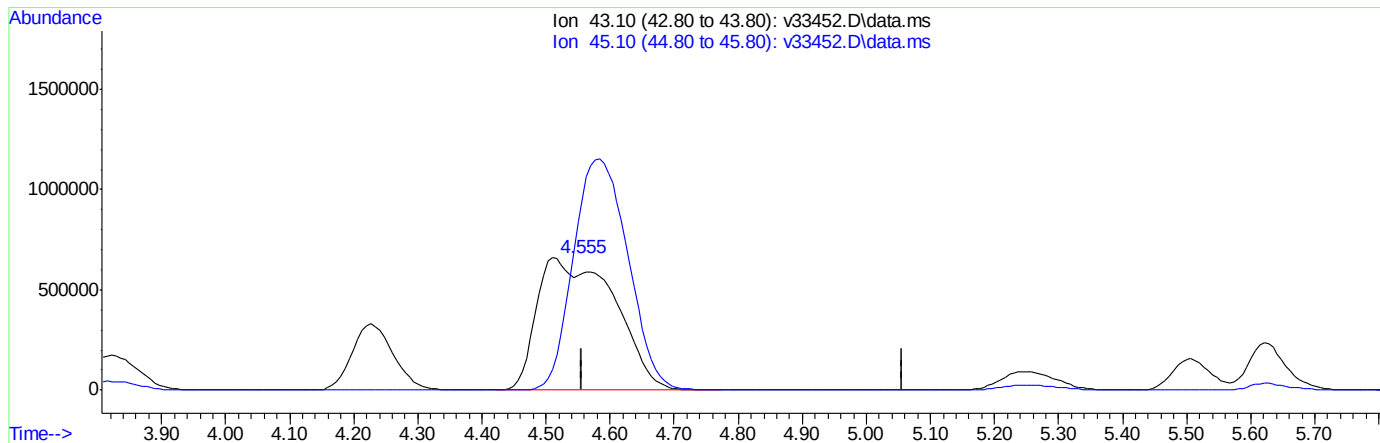
response 4484272

Ion	Exp%	Act%
85.00	100	100
87.00	33.00	32.25
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33452.D
Acq On : 1 Aug 2014 2:29 pm
Operator : amym
Sample : ic1226-400
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 01 15:05:39 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 14:32:25 2014
Response via : Initial Calibration



(37) ethyl acetate (p)

4.557min (-0.000) 360.72ug/L m

response 5553788

Ion	Exp%	Act%
43.10	100	100
45.10	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
 Data File : v33457.D
 Acq On : 1 Aug 2014 5:26 pm
 Operator : amym
 Sample : cc1226-50
 Misc : MS32359,MSV1226,,,,5,1
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 04 12:44:42 2014
 Quant Method : C:\msdchem\1\METHODS\v140801w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Aug 01 17:44:41 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.496	65	22547	500.00	ug/L	# 0.00
4) pentafluorobenzene	6.542	168	125638	50.00	ug/L	0.00
43) 1,4-difluorobenzene	7.728	114	159975	50.00	ug/L	0.00
66) chlorobenzene-d5	11.070	82	61543	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	13.282	152	66247	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	6.421	113	65789	49.31	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	98.62%		
60) toluene-d8 (s)	9.542	98	160304	50.59	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	101.18%		
82) bromofluorobenzene (s)	12.219	95	58064	50.68	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	101.36%		
Target Compounds						
2) tertiary butyl alcohol	3.607	59	13858	364.97	ug/L	Qvalue 79
3) Ethanol	2.479	45	23177	7981.46	ug/L	# 100
5) dichlorodifluoromethane	1.492	85	222263m	39.79	ug/L	
6) chloromethane	1.605	50	139037	42.23	ug/L	96
7) vinyl chloride	1.717	62	133112	40.70	ug/L	99
8) bromomethane	2.002	96	85350	42.44	ug/L	98
9) chloroethane	2.095	64	57628	50.73	ug/L	98
10) ethyl ether	2.592	59	47888	42.35	ug/L	87
11) acetonitrile	3.276	41	138625	54.25	ug/L	# 23
12) trichlorofluoromethane	2.333	101	187326	38.49	ug/L	99
13) freon-113	2.895	101	112040	46.65	ug/L	93
14) acrolein	2.738	56	26444	188.34	ug/L	92
15) 1,1-dichloroethene	2.850	96	86096	57.88	ug/L	98
16) acetone	2.890	58	8885	41.17	ug/L	# 82
17) Methyl Acetate	3.264	43	41583	59.74	ug/L	# 94
18) methylene chloride	3.445	84	83036	50.16	ug/L	87
19) methyl tert butyl ether	3.821	73	143690	49.59	ug/L	94
20) acrylonitrile	3.759	53	19593	52.84	ug/L	94
21) allyl chloride	3.276	41	138625	54.25	ug/L	91
22) trans-1,2-dichloroethene	3.816	96	77992	53.80	ug/L	96
23) iodomethane	3.016	142	209318	51.73	ug/L	94
24) carbon disulfide	3.100	76	283332	65.64	ug/L	99
25) propionitrile	5.622	54	4930	52.45	ug/L	100
26) vinyl acetate	4.563	43	166343	46.43	ug/L	94
27) chloroprene	4.601	53	131582	67.14	ug/L	94
28) di-isopropyl ether	4.586	45	242336	51.49	ug/L	96
29) methacrylonitrile	5.896	41	24895	52.01	ug/L	93
30) 2-butanone	5.511	72	4246	44.83	ug/L	# 72
31) Hexane	4.234	41	71578	58.09	ug/L	# 87
32) 1,1-dichloroethane	4.490	63	141765	52.33	ug/L	99
33) tert-butyl ethyl ether	5.251	59	166684	53.89	ug/L	98
34) isobutyl alcohol	4.563	43	166343	230.70	ug/L	90
35) 2,2-dichloropropane	5.526	77	86228	53.62	ug/L	97
36) cis-1,2-dichloroethene	5.510	96	67068	51.25	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
 Data File : v33457.D
 Acq On : 1 Aug 2014 5:26 pm
 Operator : amym
 Sample : cc1226-50
 Misc : MS32359,MSV1226,,,,,5,1
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 04 12:44:42 2014
 Quant Method : C:\msdchem\1\METHODS\v140801w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Aug 01 17:44:41 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) ethyl acetate	4.564	43	166341m	46.45	ug/L	
38) bromochloromethane	5.931	128	33239	52.64	ug/L #	81
39) chloroform	6.150	83	115767	48.89	ug/L	97
41) Tetrahydrofuran	5.941	42	8554	49.98	ug/L	94
42) 1,1,1-trichloroethane	6.395	97	110228	53.20	ug/L	99
44) Cyclohexane	6.503	56	121470	55.01	ug/L	96
45) carbon tetrachloride	6.651	117	104112	48.09	ug/L	99
46) 1,1-dichloropropene	6.665	75	74235	52.45	ug/L	96
47) benzene	6.985	78	195039	51.62	ug/L	99
48) 1,2-dichloroethane	7.109	62	78187	48.25	ug/L	99
49) tert-amyl methyl ether	7.274	73	99060	56.55	ug/L	95
50) heptane	7.545	43	63258	55.62	ug/L	88
51) trichloroethene	8.021	95	56457	48.83	ug/L	98
52) 1,2-dichloropropane	8.370	63	54745	51.75	ug/L	99
53) dibromomethane	8.474	93	28254	50.74	ug/L	91
54) bromodichloromethane	8.726	83	65127	55.87	ug/L	100
55) Methylcyclohexane	8.325	83	80349	56.89	ug/L	98
56) 2-chloroethyl vinyl ether	9.102	63	14508	49.63	ug/L	97
57) methyl methacrylate	8.504	69	16965	47.27	ug/L #	78
59) cis-1,3-dichloropropene	9.254	75	58535	53.54	ug/L	98
61) 4-methyl-2-pentanone	9.439	43	29533	49.91	ug/L	94
62) toluene	9.618	92	107850	51.02	ug/L	99
63) trans-1,3-dichloropropene	9.906	75	43752	52.78	ug/L	98
64) 1,1,2-trichloroethane	10.111	83	25269	50.27	ug/L	99
65) ethyl methacrylate	9.987	69	32611	48.85	ug/L	84
67) tetrachloroethene	10.171	166	55033	51.39	ug/L	95
68) 1,3-dichloropropane	10.273	76	47771	49.73	ug/L	99
69) dibromochloromethane	10.494	129	39757	50.09	ug/L	100
70) 1,2-dibromoethane	10.603	107	31385	52.35	ug/L	99
71) 2-hexanone	10.346	43	23106	43.02	ug/L	90
72) chlorobenzene	11.100	112	121939	51.36	ug/L	100
73) 1,1,1,2-tetrachloroethane	11.200	131	51067	44.35	ug/L	97
74) ethylbenzene	11.205	91	212177	49.16	ug/L	98
75) m,p-xylene	11.335	106	165079	99.58	ug/L	100
76) o-xylene	11.702	106	84295	50.74	ug/L	100
77) styrene	11.723	104	130508	53.52	ug/L	97
78) bromoform	11.897	173	19230	46.18	ug/L	98
79) trans-1,4-dichloro-2-b...	12.114	53	9186	40.90	ug/L	81
81) isopropylbenzene	12.055	105	229107	57.00	ug/L	99
83) bromobenzene	12.344	156	55074	52.11	ug/L	95
84) 1,1,2,2-tetrachloroethane	12.349	83	33296	51.74	ug/L	99
85) 1,2,3-trichloropropane	12.389	75	38017	54.16	ug/L	99
86) n-propylbenzene	12.443	91	250700	55.11	ug/L	99
87) 2-chlorotoluene	12.522	91	151466	51.59	ug/L	98
88) 4-chlorotoluene	12.633	91	170233	50.84	ug/L	100
89) 1,3,5-trimethylbenzene	12.612	105	191450	51.85	ug/L	99
90) tert-butylbenzene	12.898	91	101762	54.09	ug/L	100
91) 1,2,4-trimethylbenzene	12.952	105	200045	53.84	ug/L	100
92) sec-butylbenzene	13.101	105	225212	55.12	ug/L	98
93) 1,3-dichlorobenzene	13.209	146	105785	50.18	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33457.D
Acq On : 1 Aug 2014 5:26 pm
Operator : amym
Sample : cc1226-50
Misc : MS32359,MSV1226,,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 04 12:44:42 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 17:44:41 2014
Response via : Initial Calibration

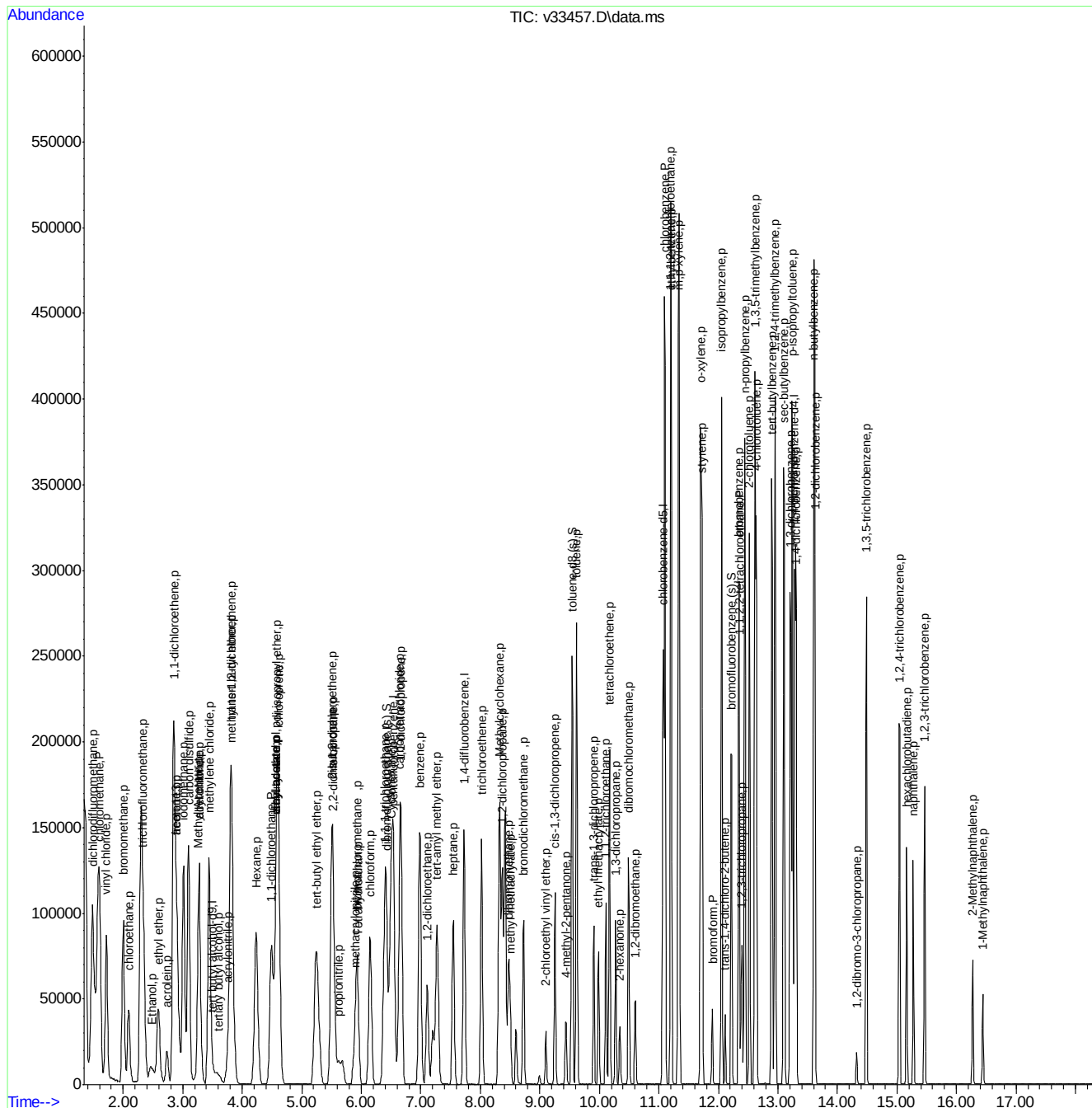
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) p-isopropyltoluene	13.242	119	204328	54.58	ug/L	98
95) 1,4-dichlorobenzene	13.304	146	105754	49.64	ug/L	100
96) 1,2-dichlorobenzene	13.621	146	100600	50.28	ug/L	99
97) n-butylbenzene	13.607	91	170861	55.02	ug/L	98
98) 1,2-dibromo-3-chloropr...	14.322	75	3952	42.49	ug/L	85
99) 1,3,5-trichlorobenzene	14.487	180	77043	51.55	ug/L	98
100) 1,2,4-trichlorobenzene	15.043	180	60536	51.18	ug/L	99
101) hexachlorobutadiene	15.164	225	23539	49.54	ug/L	95
102) naphthalene	15.276	128	86908	52.06	ug/L	100
103) 1,2,3-trichlorobenzene	15.466	180	47923	50.01	ug/L	98
104) 2-Methylnaphthalene	16.274	142	32893	53.04	ug/L	100
105) 1-Methylnaphthalene	16.443	142	25606	52.93	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
 Data File : v33457.D
 Acq On : 1 Aug 2014 5:26 pm
 Operator : amym
 Sample : cc1226-50
 Misc : MS32359,MSV1226,,,,5,1
 ALS Vial : 19 Sample Multiplier: 1

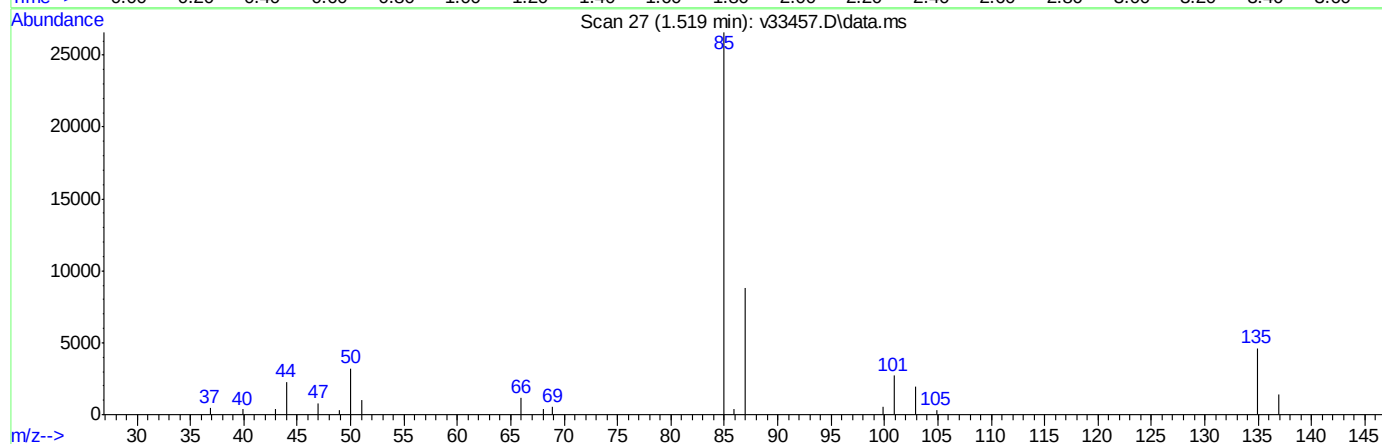
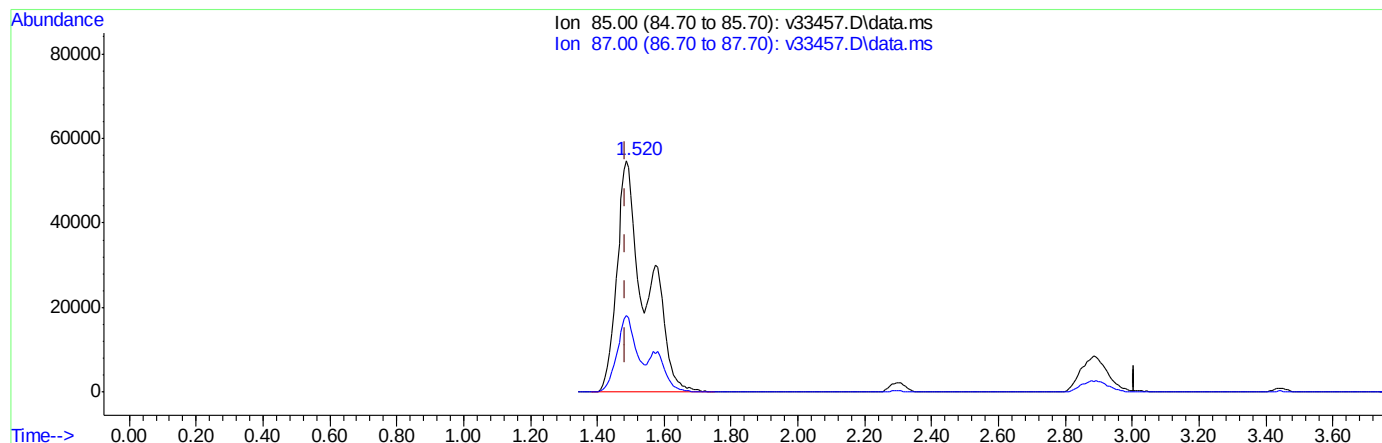
Quant Time: Aug 04 12:44:42 2014
 Quant Method : C:\msdchem\1\METHODS\v140801w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Aug 01 17:44:41 2014
 Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33457.D
Acq On : 1 Aug 2014 5:26 pm
Operator : amym
Sample : icv1226-50
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 04 12:44:07 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 17:44:41 2014
Response via : Initial Calibration



TIC: v33457.D\data.ms

(5) dichlorodifluoromethane (p)

1.520min (+0.035) 62.14ug/L

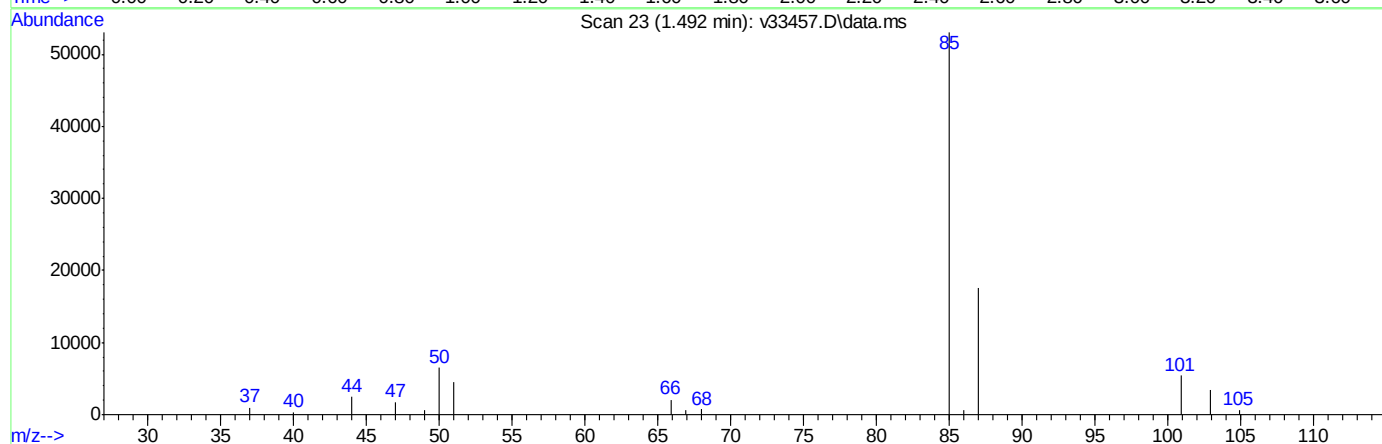
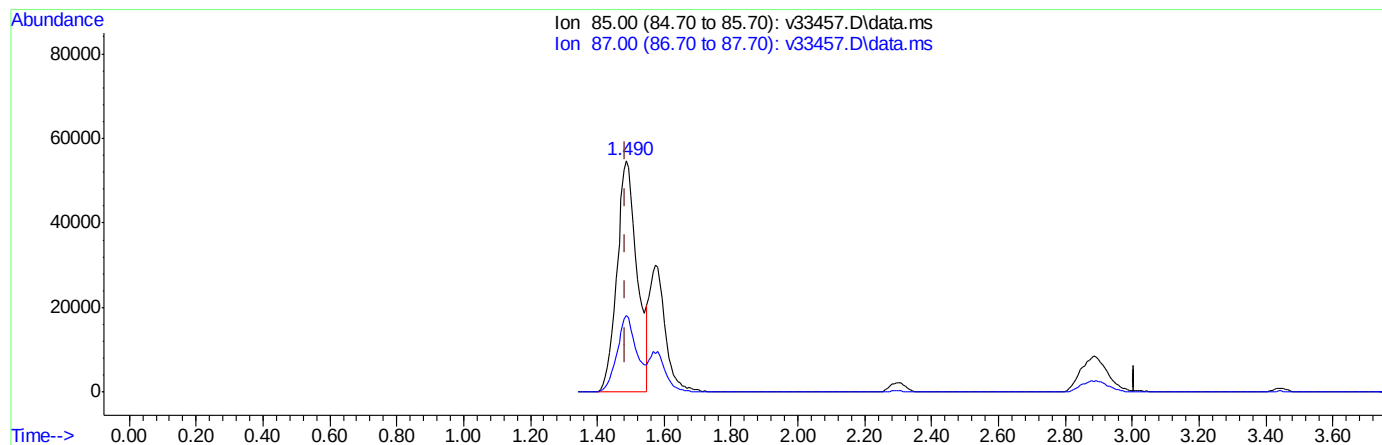
response 321757

Ion	Exp%	Act%
85.00	100	100
87.00	33.00	33.26
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33457.D
Acq On : 1 Aug 2014 5:26 pm
Operator : amym
Sample : icv1226-50
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 04 12:44:07 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 17:44:41 2014
Response via : Initial Calibration



TIC: v33457.D\data.ms

(5) dichlorodifluoromethane (p)

1.492min (+0.007) 39.79ug/L m

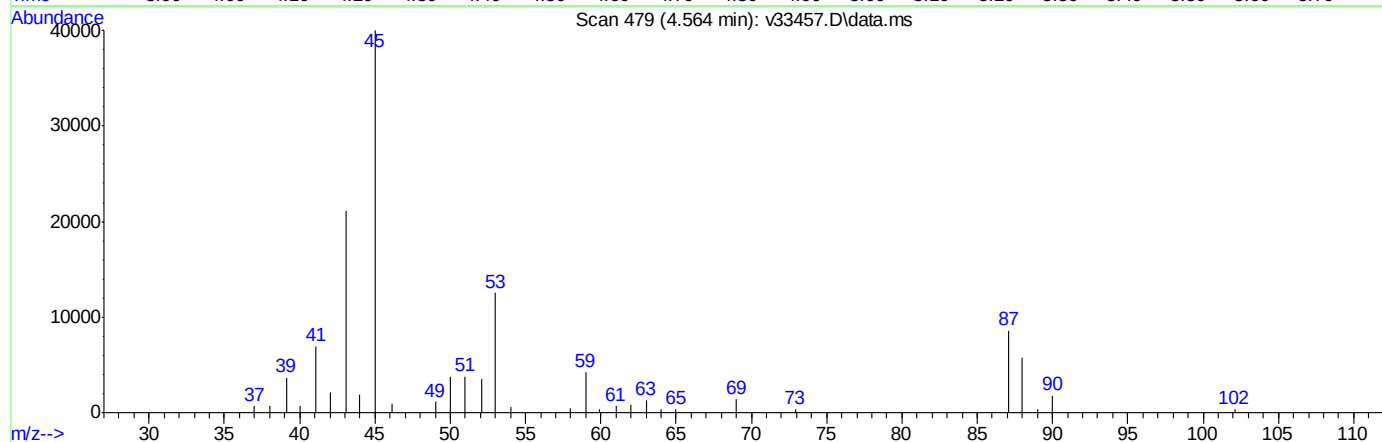
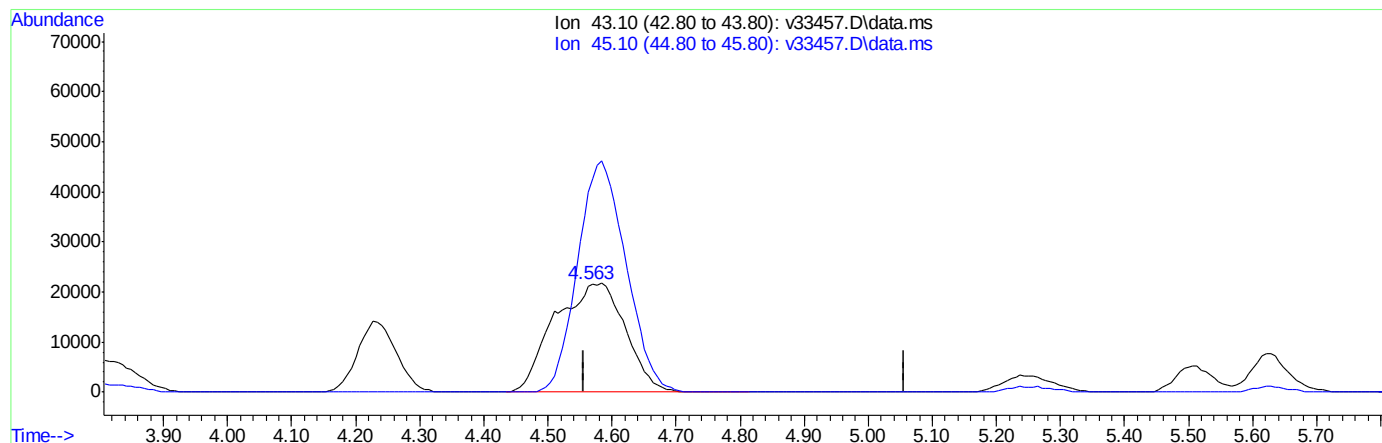
response 222263

Ion	Exp%	Act%
85.00	100	100
87.00	33.00	33.25
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33457.D
Acq On : 1 Aug 2014 5:26 pm
Operator : amym
Sample : icv1226-50
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 04 12:44:07 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 17:44:41 2014
Response via : Initial Calibration



(37) ethyl acetate (p)

4.564min (+0.007) 46.45ug/L m

response 166341

Ion	Exp%	Act%
43.10	100	100
45.10	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140806\
 Data File : v33571.D
 Acq On : 6 Aug 2014 8:48 am
 Operator : amym
 Sample : cc1226-50
 Misc : MS32437,MSV1230,,,,5,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 06 10:25:13 2014
 Quant Method : C:\msdchem\1\METHODS\v140801w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Aug 01 17:44:41 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.517	65	28206	500.00	ug/L	0.02
4) pentafluorobenzene	6.567	168	166999	50.00	ug/L	0.03
43) 1,4-difluorobenzene	7.749	114	224763	50.00	ug/L	0.02
66) chlorobenzene-d5	11.085	82	100173	50.00	ug/L	0.02
80) 1,4-dichlorobenzene-d4	13.297	152	131272	50.00	ug/L	0.01
System Monitoring Compounds						
40) dibromofluoromethane (s)	6.446	113	96791	54.57	ug/L	0.03
Spiked Amount 50.000	Range 70 - 130		Recovery =	109.14%		
60) toluene-d8 (s)	9.559	98	238062	53.47	ug/L	0.02
Spiked Amount 50.000	Range 70 - 130		Recovery =	106.94%		
82) bromofluorobenzene (s)	12.234	95	103573	45.62	ug/L	0.02
Spiked Amount 50.000	Range 70 - 130		Recovery =	91.24%		
Target Compounds						
					Qvalue	
2) tertiary butyl alcohol	3.628	59	37035	779.67	ug/L	96
3) Ethanol	2.502	45	50258	14217.64	ug/L #	100
5) dichlorodifluoromethane	1.498	85	267245m	35.51	ug/L	
6) chloromethane	1.613	50	185119	42.31	ug/L	97
7) vinyl chloride	1.725	62	179966	41.50	ug/L	95
8) bromomethane	2.012	96	114194	42.76	ug/L	97
9) chloroethane	2.107	64	68654	44.69	ug/L	96
10) ethyl ether	2.606	59	68226	45.86	ug/L	93
11) acetonitrile	3.296	41	183826	54.12	ug/L #	21
12) trichlorofluoromethane	2.346	101	305954	48.64	ug/L	97
13) freon-113	2.914	101	132688	41.33	ug/L	95
14) acrolein	2.756	56	46085	253.64	ug/L	97
15) 1,1-dichloroethene	2.867	96	91256	46.16	ug/L #	79
16) acetone	2.908	58	11337	39.43	ug/L	96
17) Methyl Acetate	3.283	43	50616	54.71	ug/L	98
18) methylene chloride	3.467	84	102273	46.48	ug/L	94
19) methyl tert butyl ether	3.843	73	185384	48.13	ug/L	99
20) acrylonitrile	3.783	53	29461	59.77	ug/L	95
21) allyl chloride	3.296	41	183826	54.13	ug/L	94
22) trans-1,2-dichloroethene	3.839	96	96737	50.20	ug/L	88
23) iodomethane	3.035	142	225972	42.01	ug/L	92
24) carbon disulfide	3.119	76	285969	49.84	ug/L	100
25) propionitrile	5.650	54	7833	61.32	ug/L	100
26) vinyl acetate	4.585	43	286508	60.17	ug/L	98
27) chloroprene	4.627	53	162609	62.43	ug/L	92
28) di-isopropyl ether	4.613	45	376294	60.15	ug/L	98
29) methacrylonitrile	5.923	41	40160	63.12	ug/L	96
30) 2-butanone	5.540	72	6443	50.73	ug/L #	76
31) Hexane	4.257	41	96929	59.19	ug/L	94
32) 1,1-dichloroethane	4.516	63	196260	54.50	ug/L	99
33) tert-butyl ethyl ether	5.280	59	220326	53.59	ug/L	96
34) isobutyl alcohol	4.585	43	286502	298.93	ug/L	95
35) 2,2-dichloropropane	5.555	77	103678	48.50	ug/L	94
36) cis-1,2-dichloroethene	5.538	96	90067	51.78	ug/L	85

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140806\
 Data File : v33571.D
 Acq On : 6 Aug 2014 8:48 am
 Operator : amym
 Sample : cc1226-50
 Misc : MS32437,MSV1230,,,,5,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 06 10:25:13 2014
 Quant Method : C:\msdchem\1\METHODS\v140801w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Aug 01 17:44:41 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) ethyl acetate	4.584	43	286517m	60.19	ug/L	
38) bromochloromethane	5.958	128	44777	53.35	ug/L	91
39) chloroform	6.176	83	178153	56.60	ug/L	98
41) Tetrahydrofuran	5.966	42	13793	59.92	ug/L	100
42) 1,1,1-trichloroethane	6.422	97	168115	61.04	ug/L	97
44) Cyclohexane	6.530	56	170654	55.00	ug/L	94
45) carbon tetrachloride	6.677	117	166543	54.58	ug/L	100
46) 1,1-dichloropropene	6.690	75	113075	56.86	ug/L	93
47) benzene	7.009	78	259497	48.86	ug/L	100
48) 1,2-dichloroethane	7.133	62	136042	59.76	ug/L	99
49) tert-amyl methyl ether	7.298	73	126282	51.31	ug/L	96
50) heptane	7.567	43	102236	63.98	ug/L	98
51) trichloroethene	8.041	95	84657	52.11	ug/L	95
52) 1,2-dichloropropane	8.389	63	84092	56.58	ug/L	100
53) dibromomethane	8.493	93	44940	57.44	ug/L	98
54) bromodichloromethane	8.744	83	104593	63.86	ug/L	100
55) Methylcyclohexane	8.345	83	106227	53.53	ug/L	92
56) 2-chloroethyl vinyl ether	9.119	63	21349	51.98	ug/L	96
57) methyl methacrylate	8.523	69	23160	46.04	ug/L	94
59) cis-1,3-dichloropropene	9.271	75	85435	55.43	ug/L	98
61) 4-methyl-2-pentanone	9.456	43	52809	63.52	ug/L	99
62) toluene	9.635	92	159478	53.70	ug/L	97
63) trans-1,3-dichloropropene	9.922	75	62749	53.80	ug/L	95
64) 1,1,2-trichloroethane	10.127	83	40585	57.46	ug/L	97
65) ethyl methacrylate	10.002	69	47596	50.57	ug/L	98
67) tetrachloroethene	10.188	166	80899	46.41	ug/L	97
68) 1,3-dichloropropane	10.290	76	78631	50.29	ug/L	100
69) dibromochloromethane	10.510	129	67712	52.30	ug/L	99
70) 1,2-dibromoethane	10.619	107	49809	51.04	ug/L	98
71) 2-hexanone	10.363	43	45466	52.00	ug/L	99
72) chlorobenzene	11.115	112	189019	48.91	ug/L	98
73) 1,1,1,2-tetrachloroethane	11.215	131	88223	47.01	ug/L	97
74) ethylbenzene	11.220	91	352126	50.12	ug/L	98
75) m,p-xylene	11.350	106	272416	100.96	ug/L	90
76) o-xylene	11.717	106	138930	51.37	ug/L	95
77) styrene	11.738	104	211372	53.26	ug/L	96
78) bromoform	11.912	173	36757	53.27	ug/L	99
79) trans-1,4-dichloro-2-b...	12.129	53	17451	47.14	ug/L	97
81) isopropylbenzene	12.069	105	381875	47.95	ug/L	99
83) bromobenzene	12.360	156	91669	43.77	ug/L	96
84) 1,1,2,2-tetrachloroethane	12.364	83	61998	48.62	ug/L	99
85) 1,2,3-trichloropropane	12.404	75	72259	51.95	ug/L	98
86) n-propylbenzene	12.457	91	444190	49.27	ug/L	98
87) 2-chlorotoluene	12.537	91	281604	48.40	ug/L	98
88) 4-chlorotoluene	12.648	91	336069	50.65	ug/L	95
89) 1,3,5-trimethylbenzene	12.627	105	368664	50.38	ug/L	96
90) tert-butylbenzene	12.912	91	201630	54.09	ug/L	92
91) 1,2,4-trimethylbenzene	12.967	105	378831	51.45	ug/L	96
92) sec-butylbenzene	13.116	105	435164	53.74	ug/L	98
93) 1,3-dichlorobenzene	13.224	146	197896	47.37	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140806\
Data File : v33571.D
Acq On : 6 Aug 2014 8:48 am
Operator : amym
Sample : cc1226-50
Misc : MS32437,MSV1230,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 06 10:25:13 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 17:44:41 2014
Response via : Initial Calibration

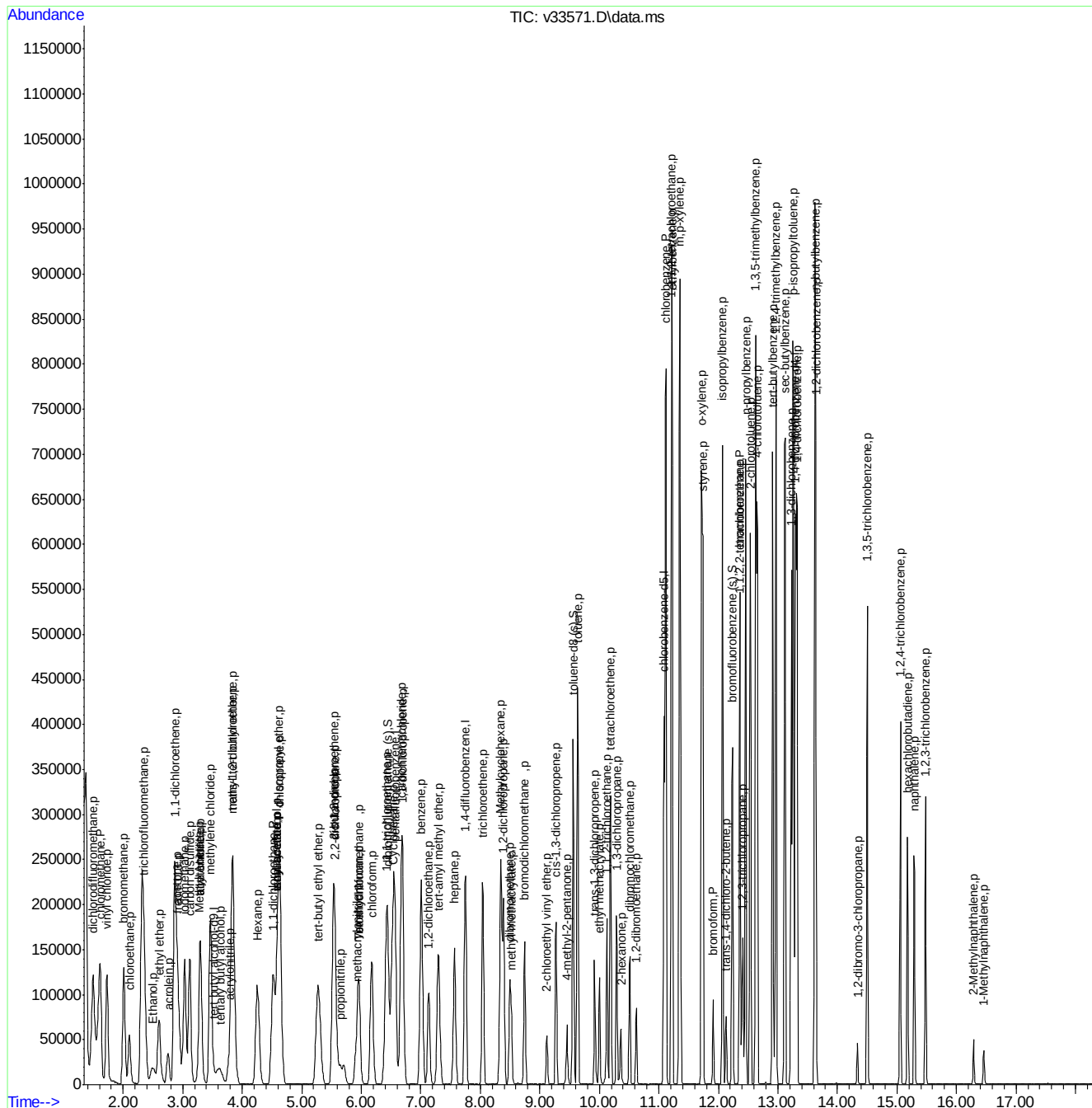
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) p-isopropyltoluene	13.256	119	403994	54.46	ug/L	97
95) 1,4-dichlorobenzene	13.319	146	211954	50.20	ug/L	99
96) 1,2-dichlorobenzene	13.636	146	197184	49.73	ug/L	99
97) n-butylbenzene	13.621	91	341342	55.47	ug/L	98
98) 1,2-dibromo-3-chloropr...	14.337	75	9773	51.73	ug/L	93
99) 1,3,5-trichlorobenzene	14.502	180	134494	45.41	ug/L	98
100) 1,2,4-trichlorobenzene	15.057	180	103795	44.29	ug/L	98
101) hexachlorobutadiene	15.178	225	42272	44.90	ug/L	99
102) naphthalene	15.291	128	164867	49.84	ug/L	100
103) 1,2,3-trichlorobenzene	15.480	180	82516	43.46	ug/L	98
104) 2-Methylnaphthalene	16.289	142	22449	21.35	ug/L	98
105) 1-Methylnaphthalene	16.460	142	17057	19.92	ug/L	98

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

Quantitation Report (QT Reviewed)

```
Data Path   : C:\msdchem\1\DATA\V140806\  
Data File  : v33571.D  
Acq On     : 6 Aug 2014    8:48 am  
Operator   : amym  
Sample     : cc1226-50  
Misc       : MS32437,MSV1230,,,,,5,1  
ALS Vial   : 2      Sample Multiplier: 1
```

Quant Time: Aug 06 10:25:13 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 17:44:41 2014
Response via : Initial Calibration



v140801w.m Wed Aug 06 10:26:27 2014

Page: 4

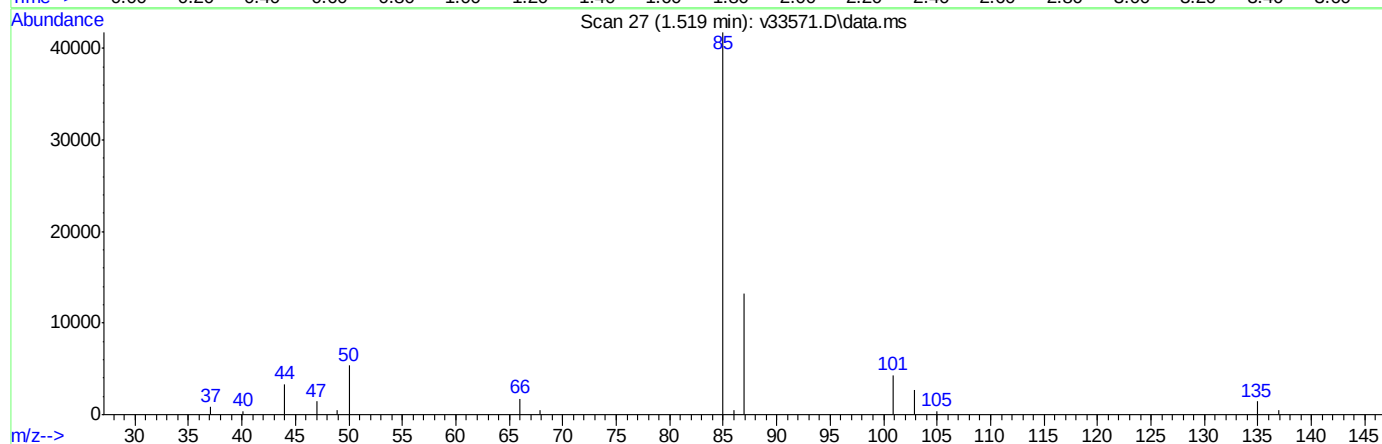
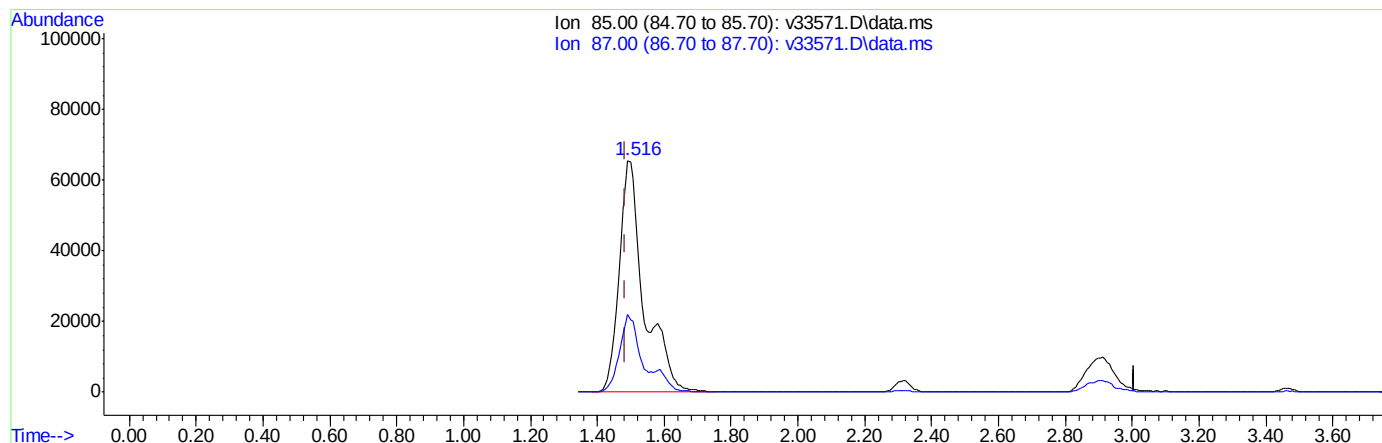
7.6.24



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140806\
Data File : v33571.D
Acq On : 6 Aug 2014 8:48 am
Operator : amym
Sample : cc1226-50
Misc : MS32437,MSV1230,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 06 09:49:03 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 17:44:41 2014
Response via : Initial Calibration



TIC: v33571.D\data.ms

(5) dichlorodifluoromethane (p)

1.516min (+0.031) 44.86ug/L

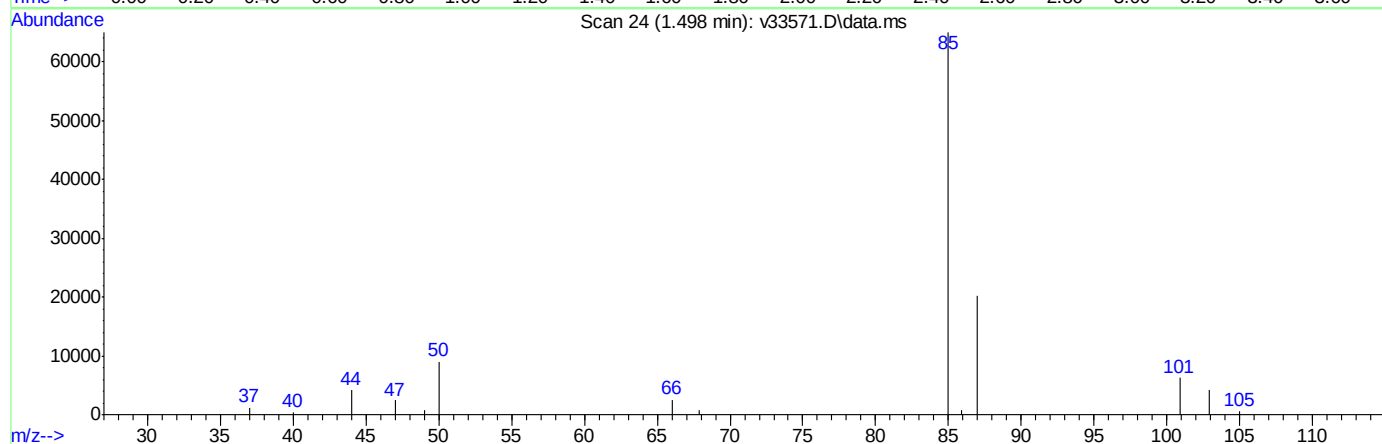
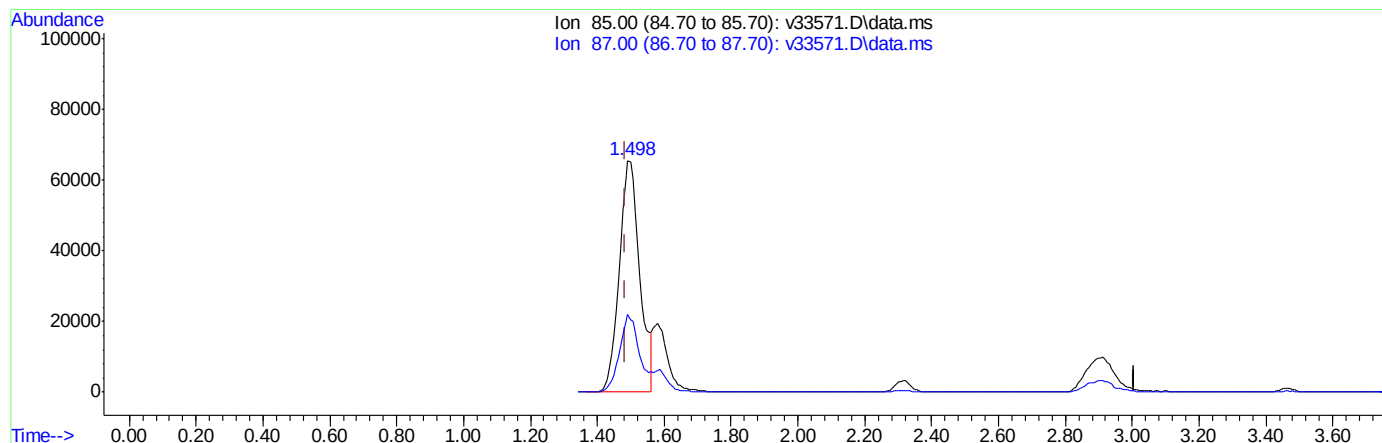
response 327612

Ion	Exp%	Act%
85.00	100	100
87.00	33.00	31.62
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140806\
Data File : v33571.D
Acq On : 6 Aug 2014 8:48 am
Operator : amym
Sample : cc1226-50
Misc : MS32437,MSV1230,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 06 09:49:03 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 17:44:41 2014
Response via : Initial Calibration



TIC: v33571.D\data.ms

(5) dichlorodifluoromethane (p)

1.498min (+0.013) 35.51ug/L m

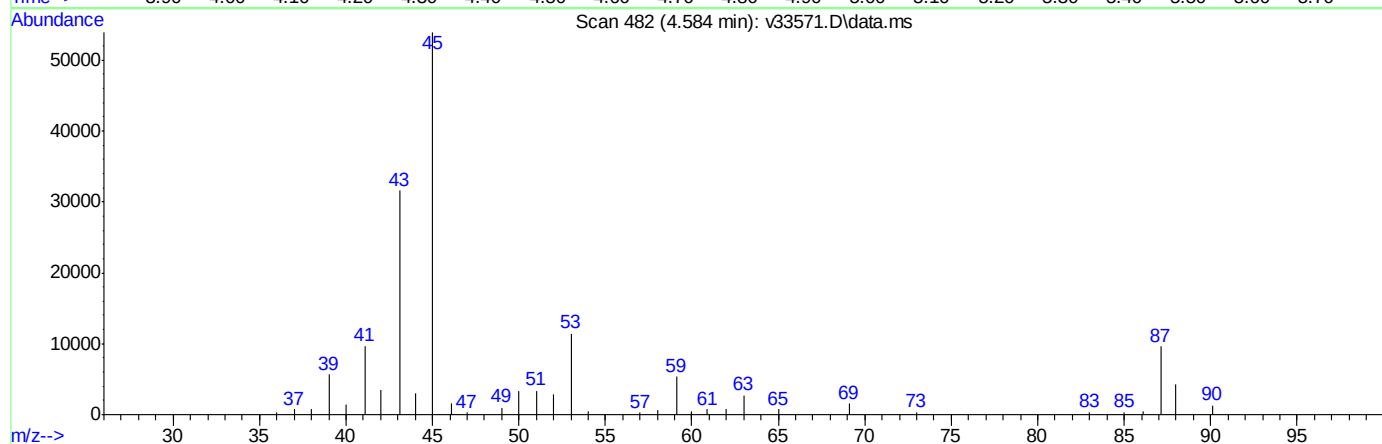
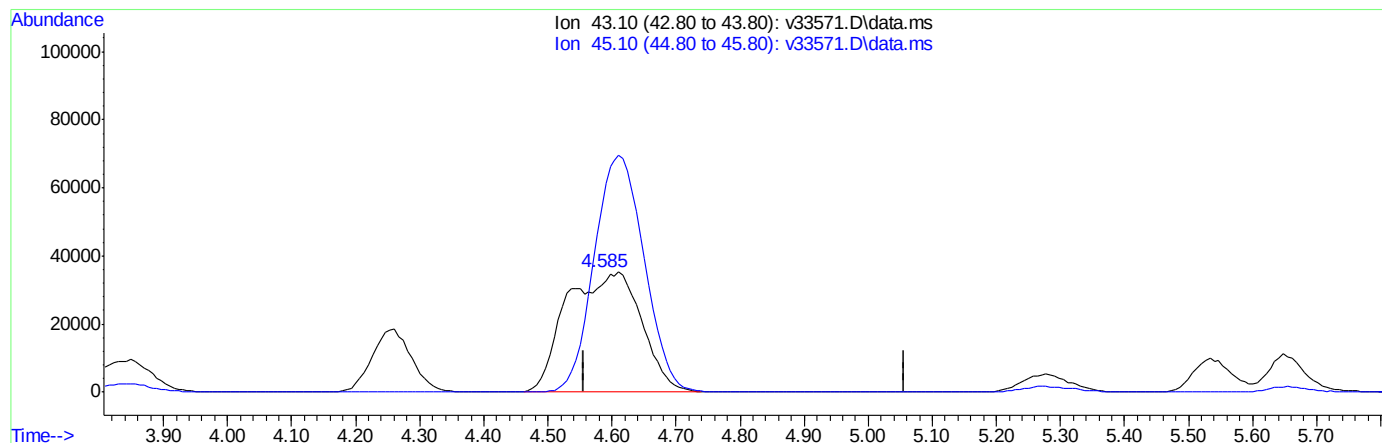
response 267245

Ion	Exp%	Act%
85.00	100	100
87.00	33.00	31.21
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140806\
Data File : v33571.D
Acq On : 6 Aug 2014 8:48 am
Operator : amym
Sample : cc1226-50
Misc : MS32437,MSV1230,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 06 09:49:03 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 17:44:41 2014
Response via : Initial Calibration



(37) ethyl acetate (p)

4.584min (+0.027) 60.19ug/L m

response 286517

Ion	Exp%	Act%
43.10	100	100
45.10	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Standards Data

Lot #	Description	Conc
15 9820	V. B. Cal STD	200 ug/ml
9851	Cal Gas	
9852	BS STD	
9839	BS Gas	
9871	IS	
9847	IS	250 ug/ml

Daily Saved File

Tune file 1:	021506
Tune file 2:	
Initial Cal:	8-2-14
ID File:	U170802w.m
ICAL Verified:	021523
Sequence verified:	OK

Date: 8/2/14

Batch ID: MSU 957

Analysts: Amy Yang

Signature: *[Signature]*

*Note: If sample matrix is soil - method SW846 5035 used for preparation. SW846 5030 is purge and trap method for soil and water

pH paper LOT#202513 exp: 1/15/2016

Data File	Sample ID	Bot No.	Work Group	Test	ALS #	*MTX	Samp Amt.	% Sol	Dil. Fact.	pH	Comments
U 21501	blk	NA	NA	NA	1	NA	5ml	NA	1:1	NA	
	02 test 0.5				2						
	03 1				3						
	04 400				4						
	05 blk				5						
	06				6						
	07				7						
	08				8						
	09				9						
	10 ic 957-0.5	2,2	MS 9850/9851		10						
	11 -1				11						
	12 -2				12						
	13 -5		MS 9850/9851/9851		13						
	14 -10				14						
	15 -25				15						
	16 ic 957-50				16						
	17 ic 957-100				17						
	18 -200				18						
	19 400				19						
	20 blk	NA	NA		20						
	21				21						
	22 ic 957-50	1,1	MS 9852/9839/9811		22						
	23				23						
	24 blk	NA	NA		24						
	25				25						
OK 8-4-14											

MTX = Matrix: Designate W for water, S for soil, O for oil.

Sample amount is reported in grams (wet) for soil and oil, mls for water.

MS001-05 Date: 07/22/13

Review: *[Signature]* 8/4/14

Standards Data

Lot #	Description	Conc
MS 9841	V8200 3555	2500 µg/ml
9850	cc mix	200 µg/ml
9851	cc ges	
9852	bs mix	
9839	bs ges	

Daily Saved File

Tune file 1:	U21528
Tune file 2:	
Initial Cal:	8-2-14
ID File:	U140802w.m
ICAL Verified:	U21523
Sequence verified:	83

Date: 8-4-14

Batch ID: MSU 957

Analysts: GK

Signature: *Henry [unclear]*

*Note: If sample matrix is soil - method SW846 5035 used for preparation. SW846 5030 is purge and trap method for soil and water

pH paper LOT#202513 exp: 1/15/2016

Data File	Sample ID	Bot No.	Work Group	Test	ALS #	*MTX	Samp Amt.	% Sol	Dil. Fact.	pH	Comments
U21526	blk	—	—	V8200	1	W	5 ml	NA	1X	NA	
27	↓	↓	↓	↓	2						
28	QC 957-50	2, 2	MS 9850		3						Tune 9:24 AM
29	bs	1, 1	MS 9852		4						
30	bsd	↓	↓	↓	5						
31	blk	—	—	↓	6						
32	MB	↓	↓	↓	7						NO MIG
33	MC32394-3	11	MS32414	SL	8					2.2	
34	MC32312-1	3		↓	9						
35	↓ -3	↓		↓	10						
36	MC32393-1	21		↓	11				10X		
37	MC32394-1	10		↓	12				100X		
38	MC32295-7	1	MS32429	RCP	13				1X		
39	↓ -4	3		↓	14				2X		
40	MC32460-4	4		TCL42	15				1X		
41	MC32340-3	1		RCP	16						
42	MC32342-1	2		STD mbe	17						
43	MC323508-1	↓		MCP	18						
44	MC32243-5	2	MS32418	Diox	19				1X		
45	↓ 1	4		↓	20				500X		
46	↓ 2	↓		↓	21				↓		
47	↓ 3	3		↓	22				1000X		
48	↓ 4	5		↓	23				1X		
49	MC32340-1	2	MS32429	RCP	24				10X		
50	↓ 2	1		↓	25				↓		
51	MC323508-2	2	MCP	MCP	26				50X		1000X III-ICA
52	MC32460-4 MS 12/10	↓		TCL42	27				1X		
53	↓ -4 MS	↓		↓	28				↓		8:49 pm
54	blk	—	—	—	29				NA		
55	↓	↓	↓	↓	30				↓		

MTX = Matrix: Designate W for water, S for soil, O for oil.

Sample amount is reported in grams (wet) for soil and oil, mls for water.

MS001-05 Date: 07/22/13

Review: *[Signature]* 8/5/14

41

VOLATILE ORGANICS BY GC/MS ANALYSIS LOG

Standards Data

Daily Saved File

Lot #	Description	Conc
MS 9850	V 8260 cal STD	2000ug/ml
9851	cal Gas	
9852	BS STD	
9853	BS Gas	
9854	SS	
9857	SS	250 ug/ml

Tune file 1:	V33440
Tune file 2:	V33457
Initial Cal:	08/01/14
ID File:	V140801W
ICAL Verified:	V33457
Sequence verified:	GK

Date: 8/1/14

Batch ID: MSV 1226

Analysts: Amy Yang

Signature: my

*Note: If sample matrix is soil - method SW846 5035 used for preparation. SW846 5030 is purge and trap method for soil and water

Data File	Sample ID	Bot No.	Work Group	Test	ALS #	*MTX	Samp Amt.	% Sol	Dil. Fact.	pH	Comments
V33439	6lk	NA	NA	NA	1	NA	5ul	NA	1:1	NA	
	40				2						
	41				3						
	42	ic 1226-0.5	1.1	MS 9850/9851	4						
	43	-1			5						
	44	-2			6						
	45	-5			7						
	46	-10			8						
	47	-25			9						
	48	ic 1226-50			10						
	49	ic 1226-100			11						
	50	-200			12						
	51	-400			13						
	52	HK2 -400			14						
	53		NA	NA	15						
	54	ic 1226-50	1.1	MS 9852/9853	16						
	55	6lk	NA	NA	17						
	56				18						
	57	ic 1226-50	1.1	MS 9852/9853	19						
	58	6lk	NA	NA	20						
	59	MB			21						
	60	MC32242-1	1	MS 32418	22	WTS					
	61	MC32243-5	1		23						
	62	MC32242-2	2		24	GW					
	63	-3	1		25						
	64	-4	2		26						
	65	-5	1		27						
	66	-6	1		28						
	67	MC32243-4	3		29						
	68	-1	3		30						
	69	-2	3		31						

TX = Matrix: Designate W for water, S for soil, O for oil.
 sample amount is reported in grams (wet) for soil and oil, mls for water.

S001-05 Date: 07/22/13

Review: 8/1/14

Standards Data

Lot #	Description	Conc
	see previous page	

Daily Saved File

Tune file 1:	
Tune file 2:	see
Initial Cal:	
ID File:	previous
ICAL Verified:	page
Sequence verified:	OK

Date: 8/1/14

Batch ID: MSV 1226

Analysts: Ag Yang

Signature: [Signature]

*Note: If sample matrix is soil - method SW846 5035 used for preparation. SW846 5030 is purge and trap method for soil and water

pH paper LOT#202513 exp: 1/15/2016

Data File	Sample ID	Bot No.	Work Group	Test	ALS #	*MTX	Samp Amt.	% Sol	Dil. Fact.	pH	Comments
V33470	MC32243-3	4	MS32418	V BtSL	32	GW	1:2000	NA	NA	<2	
71	↓ 4	4	↓	↓	33	↓	1:10	↓	↓	↓	No need
72	MC32242-2NA	1	↓	V BtSL	34	↓	1:5	↓	↓	↓	
73	↓ 2NA	↓	↓	↓	35	↓	↓	↓	↓	↓	
74	b/k	NA	NA	NA	36	NA	1:1	↓	↓	↓	
75	↓	↓	↓	↓	37	↓	↓	↓	↓	↓	
8/4/14 [Signature]											

*MTX = Matrix: Designate W for water, S for soil, O for oil.

Sample amount is reported in grams (wet) for soil and oil, mls. for water.

IS001-05 Date: 07/22/13

Review: [Signature] 8/4/14

VOLATILE ORGANICS BY GC/MS ANALYSIS LOG

Standards Data

Daily Saved File

Lot #	Description	Conc
MS 9850	VABO Cal STD	200 ug/ml
9851	Cal Gas	
9852	BS STD	
9859	BS Gas	
9899	25/55	250 ug/ml

Tune file 1:	V33571
Tune file 2:	NA
Initial Cal:	08/07/14
ID File:	V140801W
ICAL Verified:	☒
Sequence verified:	

Date: 8/6/14
 Batch ID: MSV1230
 Analysts: AMP Yang
 Signature: AMP Yang

*Note: If sample matrix is soil - method SW846 5035 used for preparation. SW846 5030 is purge and trap method for soil and water

pH paper LOT#202513 exp: 1/15/2016

Data File	Sample ID	Bot No.	Work Group	Test	ALS #	*MTX	Samp Amt.	% Sol	Dil. Fact.	pH	Comments
V33570	Wk	NA	NA	NA	1	NA	5ml	NA	1:1	NA	
71	CC 226-50	1.1	MS 9850/9851		2						
72	BS		MS 9850/9851		3						
73	BSO				4						
74	Wk	NA	NA		5						
75	MB				6						
76	MC3248-1	2	MS3248	VABO BTX	7	GW				<2	
77	MC21381-10	5		VABO STAR	8						
78	-11	5			9						
79	MC32474-5	1	MS32448	VABO STAR	10	NTB					
80	MC32422-1	1		VABO STAROM	11	GW					
81	MC32460-2	3	MS32442	VABO TCL42	12						
82	-3	2			13						
83	MC32478-2	6		VABO RCP	14						
84	-11	6			15				1:5		
85	MC32460-2 MS	3		VABO TCL42	16						
86	-2 MS				17						
87	Wk	NA	NA	NA	18				1:1		
88	MC32422-2	1	MS32448	VABO STAROM	19						
89	-3				20						
90	-4				21						
91	MC32474-1			VABO STAR	22						
92	-2				23						
93	-3				24						
94	-4				25						
95	-5				26						
96	-6				27						
97	-7				28						
98	-8				29						
99	Wk	NA	NA	NA	30	NA				NA	
V33600					31						

MTX = Matrix: Designate W for water, S for soil, O for oil.

Sample amount is reported in grams (wet) for soil and oil, mls for water.

MS001-05 Date: 07/22/13

Review: _____

General Chemistry

QC Data Summaries

∞

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries
- Instrument Runlogs/QC

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: MC32460
Account: WSPVAR - WSP Environmental & Energy
Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Cyanide	GP17954/GN47811	0.010	0.0	mg/l	0.1	0.0987	98.7	90-110%
Cyanide	GP17954/GN47811			mg/l	0.2	0.193	96.5	90-110%

Associated Samples:
Batch GP17954: MC32460-1
(*) Outside of QC limits

8.1
8

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: MC32460
Account: WSPVAR - WSP Environmental & Energy
Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Cyanide	GP17954/GN47811	MC32373-6	mg/l	0.31	0.31	0.0	0-20%

Associated Samples:
Batch GP17954: MC32460-1
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: MC32460
Account: WSPVAR - WSP Environmental & Energy
Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Cyanide	GP17954/GN47811	MC32373-6	mg/l	0.31	0.1	0.41	100.0	75-125%

Associated Samples:

Batch GP17954: MC32460-1

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

8.3

8

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: MC32460

Account: WSPVAR - WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: 073114W1.CN

Date Analyzed: 07/31/14

Methods: SW846 9012

Analyst: MA

Run ID: GN47811

Parameters: Cyanide

Time	Sample Description	Dilution Factor	PS Recov	Comments
11:28	GN47811-STD1	1		STDA0.50
11:29	GN47811-STD2	1		STDB0.30
11:30	GN47811-STD3	1		STDC0.20
11:31	GN47811-STD4	1		STDD0.10
11:32	GN47811-STD5	1		STDE0.030
11:33	GN47811-STD6	1		STDF0.010
11:34	GN47811-STD7	1		STDG0.00
11:37	GN47811-ICV1	1		
11:38	GN47811-ICB1	1		
11:39	GN47811-CCV1	1		
11:40	GN47811-CCB1	1		
11:41	GP17954-MB1	1		
11:42	GP17954-B1	1		
11:43	GP17954-B2	1		
11:44	GP17954-S1	1		
11:45	GP17954-D1	1		
11:47	MC32373-6	1		(sample used for QC only; not part of login MC32460)
11:48	ZZZZZ	1		DNR, offscale
11:49	ZZZZZ	1		
11:50	ZZZZZ	1		DNR, offscale
11:51	GN47811-CCV2	1		
11:52	GN47811-CCB2	1		
11:56	GN47811-CCV3	1		
11:57	GN47811-CCB3	1		
11:58	ZZZZZ	2		
11:59	MC32460-1	5		
12:00	GN47811-CCV4	1		
12:01	GN47811-CCB4	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: MC32460

Account: WSPVAR - WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: 073114W1.CN

Date Analyzed: 07/31/14

Methods: SW846 9012

Run ID: GN47811

Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN47811-ICV1	Cyanide	0.20	0.010	0.0014	.2	100.0	90-110
GN47811-ICB1	Cyanide	-0.0041	0.010	0.0014			
GN47811-CCV1	Cyanide	0.30	0.010	0.0014	.3	100.0	90-110
GN47811-CCB1	Cyanide	-0.0056	0.010	0.0014			
GN47811-CCV2	Cyanide	0.30	0.010	0.0014	.3	100.0	90-110
GN47811-CCB2	Cyanide	-0.0041	0.010	0.0014			
GN47811-CCV3	Cyanide	0.29	0.010	0.0014	.3	96.7	90-110
GN47811-CCB3	Cyanide	-0.0043	0.010	0.0014			
GN47811-CCV4	Cyanide	0.29	0.010	0.0014	.3	96.7	90-110
GN47811-CCB4	Cyanide	-0.0041	0.010	0.0014			

(!) Outside of QC limits

8.4

8

General Chemistry

Raw Data

6

Reagents				
Calib STD	GNSTD-	34675-CN	Buffer	RGT-
				41719-CN
ICV	GNSTD-	34669-CN-2	Carrier	RGT-
				41375-CN
CCV	GNSTD-	34675-CN-4	Chloramine-T	RGT-
				41898-CN
			Pyridine Barb. Acid	RGT-
				41720-CN

QC Review

Date: 7/21/14



Distillation

Protected Worksheet MGN127-01
(Format edits must be done by Dept. manager)

Analyst: MEHDIA		Date: 7/31/14		Batch ID: GP17954		Matrix: Aqueous				
QC Sample: MC32373-6		Balance ID: N/A		pH Meter ID: N/A		Block ID: MICRO				
Analysis Type										
CN EPA 335.4 ☐		CN SW846 9010B ☒		CN-A SM21 4500CN-G/335.4 ☐		CN-A SW846 9010 ☐				
PAC MADEP ☐		CREAC Chap 7 ☐		SREAC Chap7 ☐		CNWAD SM20 4500CN-I ☐				
Sample ID	Bot #	ID	Interfere Chk		Init. pH	SMPL Amt ML	DIST Vol ML	Start Time	End Time	Comments/Spike
			CL	S						
GP17954-MB1		N/A	ND	ND	>12	6	6	9:13	9:43	
GP17954-B1		N/A	ND	ND	>12	6	6	9:13	9:43	0.10 ML OF SPIKE
GP17954-S1	1	N/A	ND	ND	>12	6	6	9:13	9:43	0.10 ML OF SPIKE
GP17954-D1	1	N/A	ND	ND	>12	6	6	9:13	9:43	
GP17954-B2		N/A	ND	ND	>12	6	6	9:13	9:43	0.20 ML OF SPIKE
MC32373-6	1	N/A	ND	ND	>12	6	6	9:13	9:43	
MC32373-7	1	N/A	ND	ND	>12	6	6	9:13	9:43	
MC32373-8	1	N/A	ND	ND	>12	6	6	9:13	9:43	
MC32460-1	1	N/A	ND	ND	>12	6	6	9:13	9:43	
ICV		N/A	ND	ND	>12	6	6	9:13	9:43	0.20 ML OF ICV SPIKE
7-31-14										
Reagent Lot # (Refer to Individual SOP for amounts added)										
Sulfamic Acid	VENDOR-8715					Spike Solution		GNSTD-34668-CN-2		
Conc. H2SO4	VENDOR-14810					ICV Stock Solution		GNSTD-34669-CN-2		
NaOH	RGT-41236-CN					0.25N NAOH		RGT-41375-CN		
MgCl2.6H2O	RGT-41169-CN					N/A				
Bismuth Nitrate	N/A					N/A				
Comment:										

QC Review

Date

Author: chemistry

Date : 7/31/2014

Original Run Filename: OM_7-31-2014_11-27-18AM.OMN Created: 7/31/2014 11:27:18 AM
 Original Run Author's Signature: [chemistry]
 Current Run Filename: OM_7-31-2014_11-27-18AM.OMN Last Modified: 7/31/2014 11:54:11 AM
 Current Run Author's Signature: [chemistry]
 Description: Default New Run

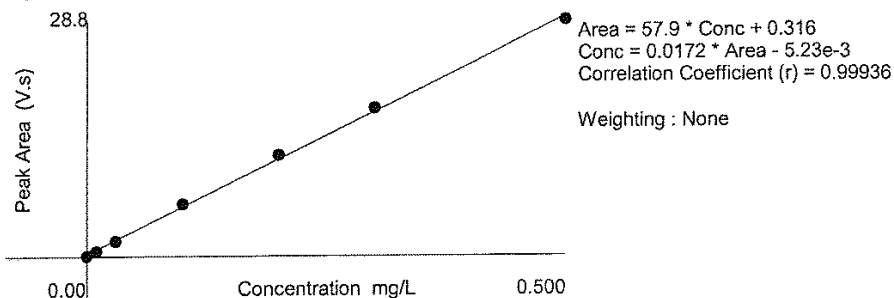
Sample	Rep.	Channel 1 Cn (mg/L)	MDF
StdA0.50	1	0.500	
StdB0.30	1	0.300	
StdC0.20	1	0.200	
StdD0.10	1	0.100	
StdE0.030	1	0.0300	
StdF0.010	1	0.0100	
StdG0.00	1	0.00	
ICV	1	0.204	
Calibration: Table/Fig. : 1			
ICB	1	-4.10e-3	
CCV	1	0.302	
CCB	1	-5.62e-3	
GP17954-MB1	1	-3.34e-3	
GP17954-B1	1	0.0987	
GP17954-B2	1	0.193	
GP17954-S1	1	0.405	
GP17954-D1	1	0.308	
MC32373-6	1	0.306	
MC32373-7	1	0.567	
MC32373-8	1	-2.48e-3	
MC32460-1	1	0.935	
CCV	1	0.295	
CCB	1	-4.10e-3	

DNR offscale
 DNR offscale

Table : 1 (Cn)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	0.500	1	28.8	1.48	0.0	1.6	0.491	7/31/2014	11:28:13 AM
2	0.300	1	18.1	0.937	0.0	-2.4	0.307	7/31/2014	11:29:18 AM
3	0.200	1	12.4	0.644	0.0	-4.0	0.208	7/31/2014	11:30:22 AM
4	0.100	1	6.40	0.334	0.0	-4.8	0.105	7/31/2014	11:31:27 AM
5	0.0300	1	1.87	0.0968	0.0	9.0	0.0270	7/31/2014	11:32:31 AM
6	0.0100	1	0.619	0.0331	0.0	30.9	5.43e-3	7/31/2014	11:33:35 AM
7	0.00	1	0.0735	3.58e-3			-3.96e-3	7/31/2014	11:34:40 AM

Figure : 1 (Cn)



7.31.14

Author: chemistry

Date : 7/31/2014

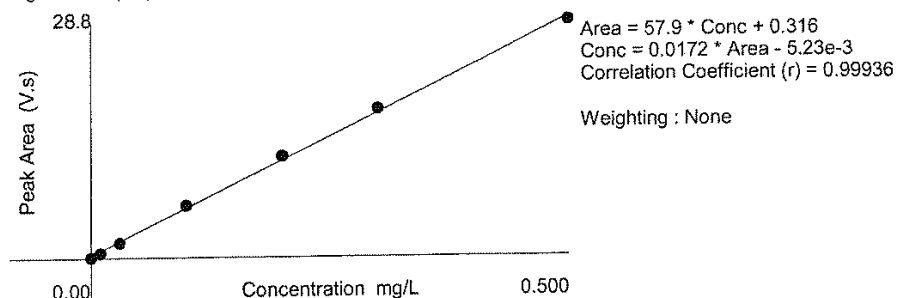
Original Run Filename: OM_7-31-2014_11-55-07AM.OMN Created: 7/31/2014 11:55:07 AM
 Original Run Author's Signature: [chemistry]
 Current Run Filename: OM_7-31-2014_11-55-07AM.OMN Last Modified: 7/31/2014 12:03:19 PM
 Current Run Author's Signature: [chemistry]
 Description: Default New Run

Sample	Rep.	Channel 1 Cn (mg/L)	MDF
CCV	1	0.293	
CCB	1	-4.26e-3	
Calibration:		Table/Fig. : 1	
MC32373-7	1	0.292	2.00
MC32460-1	1	0.200	5.00
CCV	1	0.291	
CCB	1	-4.08e-3	

Table : 1 (Cn)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	0.500	1	28.8	1.48	0.0	1.6	0.491	7/31/2014	11:28:13 AM
2	0.300	1	18.1	0.937	0.0	-2.4	0.307	7/31/2014	11:29:18 AM
3	0.200	1	12.4	0.644	0.0	-4.0	0.208	7/31/2014	11:30:22 AM
4	0.100	1	6.40	0.334	0.0	-4.8	0.105	7/31/2014	11:31:27 AM
5	0.0300	1	1.87	0.0968	0.0	9.0	0.0270	7/31/2014	11:32:31 AM
6	0.0100	1	0.619	0.0331	0.0	30.9	5.43e-3	7/31/2014	11:33:35 AM
7	0.00	1	0.0735	3.58e-3			-3.96e-3	7/31/2014	11:34:40 AM

Figure : 1 (Cn)



7/31/14



08/08/14

Technical Report for

WSP Environmental & Energy

Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY
4255-6

Accutest Job Number: MC32489

Sampling Dates: 07/29/14 - 07/30/14

Report to:

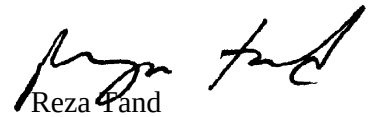
WSP Environmental & Energy
11190 Sunrise Valley Dr
Reston, VA 20191
Lisa.bryda@wspgroup.com

ATTN: Lisa Bryda

Total number of pages in report: **189**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.


Reza Fand
Lab Director

Client Service contact: Frank DAgostino 508-481-6200

Certifications: MA (M-MA136, SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579)
NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220)
DoD ELAP (L-A-B L2235)

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Test results relate only to samples analyzed.

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Sample Summary

WSP Environmental & Energy

Job No: MC32489

Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY
Project No: 4255-6

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
MC32489-1	07/30/14	15:50 MA	07/31/14	AQ	Ground Water	LBA-MW-41
MC32489-2	07/29/14	17:55 MA	07/31/14	AQ	Ground Water	LBA-MW-36

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: WSP Environmental & Energy

Job No MC32489

Site: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca,

Report Date 8/7/2014 5:54:01 PM

2 Sample(s) were collected on between 07/29/2014 and 07/30/2014 and were received at Accutest on 07/31/2014 properly preserved, at 1.9 Deg. C and intact. These Samples received an Accutest job number of MC32489. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260C

Matrix AQ

Batch ID: MSV1231

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC32523-4MS, MC32523-4MSD were used as the QC samples indicated.
- MSV1231-BS for 1,1-Dichloroethane: Outside control limits. Blank Spike meets program technical requirements.
- MSV1231-BS/BSD Recovery(s) for 1,1,1-Trichloroethane, 1,2-Dichloroethane, 4-Methyl-2-pentanone (MIBK), Bromodichloromethane, Carbon disulfide, Chloroethane, Methyl Acetate are outside control limits. Blank Spike meets program technical requirements.
- Matrix Spike Recovery(s) for 1,1-Dichloroethene, 1,2-Dichloropropane, Acetone, Carbon tetrachloride, Methylcyclohexane are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- Matrix Spike Duplicate Recovery(s) for 1,1,2-Trichloroethane, 1,1-Dichloroethane, 1,2-Dichloropropane, Acetone, Carbon tetrachloride, Chloromethane, Methylcyclohexane are outside control limits. Outside control limits due to possible matrix interference. Refer to Blank Spike.
- Initial calibration verification MSV1226-ICV1226 for carbon disulfide exceeds 30% Difference (response bias high). Associated samples are non-detect for this compound.
- MC32523-4MS/MSD has internal standard outside control limits. Outside control limits due to possible matrix interference. Confirmed by reanalysis.
- MC32489-1 for Tert Butyl Alcohol-D9: Outside control limits. Target analytes not associated with this internal standard.
- MC32523-4MS/MSD for 1,1,1-Trichloroethane, 1,1-Dichloroethane, 1,2-Dichloroethane, 4-Methyl-2-pentanone (MIBK), Bromodichloromethane, Carbon disulfide, Chloroethane, Methyl Acetate : Outside control limits. Blank Spike meets program technical requirements.

Wet Chemistry By Method SW846 9012

Matrix AQ

Batch ID: GP17981

- All samples were distilled within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC32562-1DUP, MC32562-1MS were used as the QC samples for Cyanide.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(MC32489).

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Collected: 07/29/14 thru 07/30/14

Lab Sample ID	Client Sample ID	Result/ Analyte	RL	MDL	Units	Method	
MC32489-1	LBA-MW-41						
		cis-1,2-Dichloroethene	104	1.0	0.84	ug/l	SW846 8260C
		trans-1,2-Dichloroethene	0.97 J	1.0	0.51	ug/l	SW846 8260C
		Trichloroethene	5.3	1.0	0.47	ug/l	SW846 8260C
		Vinyl chloride	10.1	1.0	0.58	ug/l	SW846 8260C
MC32489-2	LBA-MW-36						
		Cyanide	2.1	0.10		mg/l	SW846 9012

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

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Client Sample ID:	LBA-MW-41	Date Sampled:	07/30/14
Lab Sample ID:	MC32489-1	Date Received:	07/31/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V33621.D	1	08/07/14	AMY	n/a	n/a	MSV1231
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.9	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.87	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	104	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	0.97	1.0	0.51	ug/l	J
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	LBA-MW-41	Date Sampled:	07/30/14
Lab Sample ID:	MC32489-1	Date Received:	07/31/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY		

VOA TCL 4.2 List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	5.3	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	10.1	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%		70-130%
2037-26-5	Toluene-D8	102%		70-130%
460-00-4	4-Bromofluorobenzene	111%		70-130%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	LBA-MW-36	Date Sampled:	07/29/14
Lab Sample ID:	MC32489-2	Date Received:	07/31/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	2.1	0.10	mg/l	10	08/07/14 12:03	MA	SW846 9012

RL = Reporting Limit

Misc. Forms

5

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

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5.1

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Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC32489 **Client:** WSP **Immediate Client Services Action Required:** No
Date / Time Received: 7/31/2014 **Delivery Method:** **Client Service Action Required at Login:** No
Project: EPT ITHACA **No. Coolers:** 1 **Airbill #'s:**

Cooler Security **Y or N** **Y or N**
1. Custody Seals Present: ☒ ☐ 3. COC Present: ☒ ☐
2. Custody Seals Intact: ☒ ☐ 4. Smpl Dates/Time OK ☒ ☐

Cooler Temperature **Y or N**
1. Temp criteria achieved: ☒ ☐
2. Cooler temp verification: Infrared gun
3. Cooler media: Ice (bag)

Quality Control Preservation **Y or N** **N/A**
1. Trip Blank present / cooler: ☐ ☒ ☐
2. Trip Blank listed on COC: ☐ ☒ ☐
3. Samples preserved properly: ☒ ☐
4. VOCs headspace free: ☒ ☐

Sample Integrity - Documentation **Y or N**
1. Sample labels present on bottles: ☒ ☐
2. Container labeling complete: ☒ ☐
3. Sample container label / COC agree: ☒ ☐

Sample Integrity - Condition **Y or N**
1. Sample recvd within HT: ☒ ☐
2. All containers accounted for: ☒ ☐
3. Condition of sample: Intact

Sample Integrity - Instructions **Y or N** **N/A**
1. Analysis requested is clear: ☒ ☐
2. Bottles received for unspecified tests: ☐ ☒
3. Sufficient volume recvd for analysis: ☒ ☐
4. Compositing instructions clear: ☐ ☐ ☒
5. Filtering instructions clear: ☐ ☐ ☒

Comments

Internal Sample Tracking Chronicle

WSP Environmental & Energy

Job No: MC32489

Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY
Project No: 4255-6

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC32489-1 Collected: 30-JUL-14 15:50 By: MA Received: 31-JUL-14 By: LBA-MW-41						
MC32489-1	SW846 8260C	07-AUG-14 15:40	AMY			V8260TCL42
MC32489-2 Collected: 29-JUL-14 17:55 By: MA Received: 31-JUL-14 By: LBA-MW-36						
MC32489-2	SW846 9012	07-AUG-14 12:03	MA	07-AUG-14	MA	CN

Accutest Internal Chain of Custody

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Job Number: MC32489

Account: WSPVAR WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Received: 07/31/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC32489-1.1	VOC Ref #5	Gary Krasinski	08/04/14 13:10	Retrieve from Storage
MC32489-1.1	Gary Krasinski	GCMSU	08/04/14 13:10	Load on Instrument
MC32489-1.1	GCMSU	Gary Krasinski	08/04/14 16:28	Unload from Instrument
MC32489-1.1	Gary Krasinski	VOC Ref #5	08/04/14 16:28	Return to Storage
MC32489-1.2	VOC Ref #1	Amy Min Yang	08/07/14 15:10	Retrieve from Storage
MC32489-1.2	Amy Min Yang	GCMSV	08/07/14 15:10	Load on Instrument
MC32489-2.1	Walk In Ref #9	Mehdi Abdolrahim	08/07/14 08:16	Retrieve from Storage
MC32489-2.1	Mehdi Abdolrahim	Walk In Ref #9	08/07/14 11:21	Return to Storage

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

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Job Number: MC32489

Account: WSPVAR WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1231-MB	V33609.D	1	08/07/14	AMY	n/a	n/a	MSV1231

The QC reported here applies to the following samples:

Method: SW846 8260C

MC32489-1

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.32	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.34	ug/l	
75-25-2	Bromoform	ND	1.0	0.61	ug/l	
74-83-9	Bromomethane	ND	2.0	1.8	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.5	ug/l	
75-15-0	Carbon disulfide	ND	5.0	0.46	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.53	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.43	ug/l	
75-00-3	Chloroethane	ND	2.0	0.53	ug/l	
67-66-3	Chloroform	ND	1.0	0.41	ug/l	
74-87-3	Chloromethane	ND	2.0	1.1	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.62	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	1.9	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.38	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.87	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.32	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.56	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.36	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.71	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.36	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.61	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.84	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.42	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.38	ug/l	
76-13-1	Freon 113	ND	5.0	0.62	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.6	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	0.35	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.4	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.49	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	0.99	ug/l	

6.1.1

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Method Blank Summary

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Job Number: MC32489

Account: WSPVAR WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1231-MB	V33609.D	1	08/07/14	AMY	n/a	n/a	MSV1231

The QC reported here applies to the following samples:

Method: SW846 8260C

MC32489-1

CAS No.	Compound	Result	RL	MDL	Units	Q
75-09-2	Methylene chloride	ND	2.0	0.28	ug/l	
100-42-5	Styrene	ND	5.0	0.85	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.59	ug/l	
108-88-3	Toluene	ND	1.0	0.33	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.46	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.45	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.47	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.55	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.58	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.36	ug/l	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	113% 70-130%
2037-26-5	Toluene-D8	103% 70-130%
460-00-4	4-Bromofluorobenzene	111% 70-130%

Blank Spike/Blank Spike Duplicate Summary

Page 1 of 2

Job Number: MC32489

Account: WSPVAR WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1231-BS	V33606.D	1	08/07/14	AMY	n/a	n/a	MSV1231
MSV1231-BSD	V33607.D	1	08/07/14	AMY	n/a	n/a	MSV1231

The QC reported here applies to the following samples:

Method: SW846 8260C

MC32489-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	50	45.1	90	43.8	88	3	70-130/25
71-43-2	Benzene	50	56.3	113	54.9	110	3	70-130/25
75-27-4	Bromodichloromethane	50	75.4	151* a	73.4	147* a	3	70-130/25
75-25-2	Bromoform	50	50.3	101	51.1	102	2	70-130/25
74-83-9	Bromomethane	50	54.1	108	57.4	115	6	70-130/25
78-93-3	2-Butanone (MEK)	50	48.1	96	45.9	92	5	70-130/25
75-15-0	Carbon disulfide	50	71.9	144* a	73.0	146* a	2	70-130/25
56-23-5	Carbon tetrachloride	50	64.6	129	63.9	128	1	70-130/25
108-90-7	Chlorobenzene	50	52.9	106	51.9	104	2	70-130/25
75-00-3	Chloroethane	50	67.7	135* a	70.9	142* a	5	70-130/25
67-66-3	Chloroform	50	64.1	128	61.6	123	4	70-130/25
74-87-3	Chloromethane	50	57.6	115	60.2	120	4	70-130/25
110-82-7	Cyclohexane	50	68.9	138	68.2	136	1	71-145/25
96-12-8	1,2-Dibromo-3-chloropropane	50	47.5	95	48.6	97	2	70-130/25
124-48-1	Dibromochloromethane	50	53.0	106	53.0	106	0	70-130/25
106-93-4	1,2-Dibromoethane	50	51.4	103	52.3	105	2	70-130/25
95-50-1	1,2-Dichlorobenzene	50	54.1	108	54.9	110	1	70-130/25
541-73-1	1,3-Dichlorobenzene	50	52.1	104	51.4	103	1	70-130/25
106-46-7	1,4-Dichlorobenzene	50	54.6	109	54.3	109	1	70-130/25
75-71-8	Dichlorodifluoromethane	50	37.4	75	41.8	84	11	70-130/25
75-34-3	1,1-Dichloroethane	50	66.4	133* a	64.3	129	3	70-130/25
107-06-2	1,2-Dichloroethane	50	69.6	139* a	67.8	136* a	3	70-130/25
75-35-4	1,1-Dichloroethene	50	59.8	120	60.9	122	2	70-130/25
156-59-2	cis-1,2-Dichloroethene	50	57.0	114	55.5	111	3	70-130/25
156-60-5	trans-1,2-Dichloroethene	50	58.3	117	57.2	114	2	70-130/25
78-87-5	1,2-Dichloropropane	50	63.1	126	62.3	125	1	70-130/25
10061-01-5	cis-1,3-Dichloropropene	50	60.3	121	59.6	119	1	70-130/25
10061-02-6	trans-1,3-Dichloropropene	50	60.5	121	59.4	119	2	70-130/25
100-41-4	Ethylbenzene	50	55.2	110	54.3	109	2	70-130/25
76-13-1	Freon 113	50	51.9	104	53.8	108	4	70-130/25
591-78-6	2-Hexanone	50	50.3	101	49.3	99	2	70-130/25
98-82-8	Isopropylbenzene	50	54.9	110	53.9	108	2	70-130/25
79-20-9	Methyl Acetate	50	78.6	157* a	79.4	159* a	1	40-137/25
108-87-2	Methylcyclohexane	50	60.8	122	61.1	122	0	74-143/25
1634-04-4	Methyl Tert Butyl Ether	50	50.2	100	52.0	104	4	70-130/25
108-10-1	4-Methyl-2-pentanone (MIBK)	50	68.5	137* a	70.9	142* a	3	70-130/25

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Page 2 of 2

Job Number: MC32489**Account:** WSPVAR WSP Environmental & Energy**Project:** Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MSV1231-BS	V33606.D	1	08/07/14	AMY	n/a	n/a	MSV1231
MSV1231-BSD	V33607.D	1	08/07/14	AMY	n/a	n/a	MSV1231

The QC reported here applies to the following samples:**Method:** SW846 8260C

MC32489-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
75-09-2	Methylene chloride	50	53.9	108	53.6	107	1	70-130/25
100-42-5	Styrene	50	58.4	117	58.6	117	0	70-130/25
79-34-5	1,1,2,2-Tetrachloroethane	50	48.8	98	49.3	99	1	70-130/25
127-18-4	Tetrachloroethene	50	48.5	97	47.9	96	1	70-130/25
108-88-3	Toluene	50	60.2	120	58.9	118	2	70-130/25
120-82-1	1,2,4-Trichlorobenzene	50	48.7	97	50.5	101	4	70-130/25
71-55-6	1,1,1-Trichloroethane	50	70.2	140* a	69.2	138* a	1	70-130/25
79-00-5	1,1,2-Trichloroethane	50	59.4	119	59.2	118	0	70-130/25
79-01-6	Trichloroethene	50	58.4	117	56.1	112	4	70-130/25
75-69-4	Trichlorofluoromethane	50	61.6	123	62.0	124	1	70-130/25
75-01-4	Vinyl chloride	50	52.5	105	55.5	111	6	70-130/25
1330-20-7	Xylene (total)	150	162	108	161	107	1	70-130/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	114%	112%	70-130%
2037-26-5	Toluene-D8	109%	109%	70-130%
460-00-4	4-Bromofluorobenzene	93%	93%	70-130%

(a) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 2

Job Number: MC32489

Account: WSPVAR WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC32523-4MS	V33622.D	5	08/07/14	AMY	n/a	n/a	MSV1231
MC32523-4MSD	V33623.D	5	08/07/14	AMY	n/a	n/a	MSV1231
MC32523-4	V33619.D	1	08/07/14	AMY	n/a	n/a	MSV1231

The QC reported here applies to the following samples:

Method: SW846 8260C

MC32489-1

CAS No.	Compound	MC32523-4		Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
		ug/l	Q								
67-64-1	Acetone	ND		250	127	51* a	250	141	56* a	10	70-130/30
71-43-2	Benzene	ND		250	295	118	250	296	118	0	70-130/30
75-27-4	Bromodichloromethane	ND		250	393	157* b	250	387	155* b	2	70-130/30
75-25-2	Bromoform	ND		250	273	109	250	277	111	1	70-130/30
74-83-9	Bromomethane	ND		250	296	118	250	293	117	1	70-130/30
78-93-3	2-Butanone (MEK)	ND		250	218	87	250	221	88	1	70-130/30
75-15-0	Carbon disulfide	ND		250	421	168* b	250	419	168* b	0	70-130/30
56-23-5	Carbon tetrachloride	ND		250	345	138* a	250	344	138* a	0	70-130/30
108-90-7	Chlorobenzene	ND		250	278	111	250	276	110	1	70-130/30
75-00-3	Chloroethane	ND		250	383	153* b	250	371	148* b	3	70-130/30
67-66-3	Chloroform	ND		250	326	130	250	320	128	2	70-130/30
74-87-3	Chloromethane	ND		250	315	126	250	341	136* a	8	70-130/30
110-82-7	Cyclohexane	ND		250	384	154	250	383	153	0	60-160/30
96-12-8	1,2-Dibromo-3-chloropropane	ND		250	258	103	250	279	112	8	70-130/30
124-48-1	Dibromochloromethane	ND		250	287	115	250	294	118	2	70-130/30
106-93-4	1,2-Dibromoethane	ND		250	277	111	250	283	113	2	70-130/30
95-50-1	1,2-Dichlorobenzene	ND		250	281	112	250	293	117	4	70-130/30
541-73-1	1,3-Dichlorobenzene	ND		250	268	107	250	276	110	3	70-130/30
106-46-7	1,4-Dichlorobenzene	ND		250	283	113	250	284	114	0	70-130/30
75-71-8	Dichlorodifluoromethane	ND		250	208	83	250	198	79	5	70-130/30
75-34-3	1,1-Dichloroethane	ND		250	350	140* b	250	345	138* b	1	70-130/30
107-06-2	1,2-Dichloroethane	ND		250	362	145* b	250	361	144* b	0	70-130/30
75-35-4	1,1-Dichloroethene	ND		250	346	138* a	250	342	137* a	1	70-130/30
156-59-2	cis-1,2-Dichloroethene	ND		250	297	119	250	296	118	0	70-130/30
156-60-5	trans-1,2-Dichloroethene	ND		250	316	126	250	311	124	2	70-130/30
78-87-5	1,2-Dichloropropane	ND		250	334	134* a	250	337	135* a	1	70-130/30
10061-01-5	cis-1,3-Dichloropropene	ND		250	308	123	250	312	125	1	70-130/30
10061-02-6	trans-1,3-Dichloropropene	ND		250	308	123	250	314	126	2	70-130/30
100-41-4	Ethylbenzene	ND		250	292	117	250	290	116	1	70-130/30
76-13-1	Freon 113	ND		250	324	130	250	323	129	0	70-130/30
591-78-6	2-Hexanone	ND		250	205	82	250	219	88	7	70-130/30
98-82-8	Isopropylbenzene	ND		250	288	115	250	295	118	2	70-130/30
79-20-9	Methyl Acetate	ND		250	424	170* b	250	433	173* b	2	34-145/30
108-87-2	Methylcyclohexane	ND		250	331	132* a	250	335	134* a	1	70-130/30
1634-04-4	Methyl Tert Butyl Ether	ND		250	285	114	250	300	120	5	70-130/30
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	356	142* b	250	376	150* b	5	70-130/30

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 2 of 2

Job Number: MC32489

Account: WSPVAR WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC32523-4MS	V33622.D	5	08/07/14	AMY	n/a	n/a	MSV1231
MC32523-4MSD	V33623.D	5	08/07/14	AMY	n/a	n/a	MSV1231
MC32523-4	V33619.D	1	08/07/14	AMY	n/a	n/a	MSV1231

The QC reported here applies to the following samples:

Method: SW846 8260C

MC32489-1

CAS No.	Compound	MC32523-4 ug/l	Spike Q	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
75-09-2	Methylene chloride	ND	250	295	118	250	296	118	0	70-130/30
100-42-5	Styrene	ND	250	302	121	250	300	120	1	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	ND	250	258	103	250	274	110	6	70-130/30
127-18-4	Tetrachloroethene	ND	250	263	105	250	263	105	0	70-130/30
108-88-3	Toluene	ND	250	310	124	250	308	123	1	70-130/30
120-82-1	1,2,4-Trichlorobenzene	ND	250	245	98	250	268	107	9	70-130/30
71-55-6	1,1,1-Trichloroethane	ND	250	371	148* b	250	363	145* b	2	70-130/30
79-00-5	1,1,2-Trichloroethane	ND	250	309	124	250	329	132* a	6	70-130/30
79-01-6	Trichloroethene	ND	250	302	121	250	296	118	2	70-130/30
75-69-4	Trichlorofluoromethane	ND	250	319	128	250	307	123	4	70-130/30
75-01-4	Vinyl chloride	ND	250	284	114	250	287	115	1	70-130/30
1330-20-7	Xylene (total)	ND	750	855	114	750	858	114	0	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	MC32523-4	Limits
1868-53-7	Dibromofluoromethane	111%	109%	111%	70-130%
2037-26-5	Toluene-D8	106%	107%	102%	70-130%
460-00-4	4-Bromofluorobenzene	92%	93%	113%	70-130%

(a) Outside control limits due to possible matrix interference. Refer to Blank Spike.

(b) Outside control limits. Blank Spike meets program technical requirements.

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Page 1 of 1

Job Number: MC32489**Account:** WSPVAR WSP Environmental & Energy**Project:** Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY**Sample:** MSV1226-BFB**Injection Date:** 08/01/14**Lab File ID:** V33440.D**Injection Time:** 08:35**Instrument ID:** GCMSV

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	13183	23.2	Pass
75	30.0 - 60.0% of mass 95	28419	50.1	Pass
95	Base peak, 100% relative abundance	56736	100.0	Pass
96	5.0 - 9.0% of mass 95	4000	7.05	Pass
173	Less than 2.0% of mass 174	328	0.58 (0.70) ^a	Pass
174	50.0 - 100.0% of mass 95	46664	82.2	Pass
175	5.0 - 9.0% of mass 174	3430	6.05 (7.35) ^a	Pass
176	95.0 - 101.0% of mass 174	44848	79.0 (96.1) ^a	Pass
177	5.0 - 9.0% of mass 176	3078	5.43 (6.86) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
MSV1226-IC1226	V33442.D	08/01/14	09:27	00:52	Initial cal 0.5
MSV1226-IC1226	V33443.D	08/01/14	09:54	01:19	Initial cal 1
MSV1226-IC1226	V33444.D	08/01/14	10:20	01:45	Initial cal 2
MSV1226-IC1226	V33445.D	08/01/14	10:46	02:11	Initial cal 5
MSV1226-IC1226	V33446.D	08/01/14	11:12	02:37	Initial cal 10
MSV1226-IC1226	V33447.D	08/01/14	11:38	03:03	Initial cal 25
MSV1226-ICC1226	V33448.D	08/01/14	12:04	03:29	Initial cal 50
MSV1226-IC1226	V33449.D	08/01/14	12:30	03:55	Initial cal 100
MSV1226-IC1226	V33451.D	08/01/14	14:03	05:28	Initial cal 200
MSV1226-IC1226	V33452.D	08/01/14	14:29	05:54	Initial cal 400
MSV1226-ICV1226	V33457.D	08/01/14	17:26	08:51	Initial cal verification 50

Instrument Performance Check (BFB)**Job Number:** MC32489**Account:** WSPVAR WSP Environmental & Energy**Project:** Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY**Sample:** MSV1231-BFB**Injection Date:** 08/07/14**Lab File ID:** V33605.D**Injection Time:** 08:42**Instrument ID:** GCMSV

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	14569	28.8	Pass
75	30.0 - 60.0% of mass 95	28472	56.3	Pass
95	Base peak, 100% relative abundance	50616	100.0	Pass
96	5.0 - 9.0% of mass 95	3388	6.69	Pass
173	Less than 2.0% of mass 174	150	0.30 (0.39) ^a	Pass
174	50.0 - 100.0% of mass 95	38131	75.3	Pass
175	5.0 - 9.0% of mass 174	2910	5.75 (7.63) ^a	Pass
176	95.0 - 101.0% of mass 174	36715	72.5 (96.3) ^a	Pass
177	5.0 - 9.0% of mass 176	2345	4.63 (6.39) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
MSV1231-CC1226	V33605.D	08/07/14	08:42	00:00	Continuing cal 50
MSV1231-BS	V33606.D	08/07/14	09:08	00:26	Blank Spike
MSV1231-BSD	V33607.D	08/07/14	09:34	00:52	Blank Spike Duplicate
MSV1231-MB	V33609.D	08/07/14	10:26	01:44	Method Blank
ZZZZZZ	V33610.D	08/07/14	10:53	02:11	(unrelated sample)
ZZZZZZ	V33611.D	08/07/14	11:19	02:37	(unrelated sample)
ZZZZZZ	V33612.D	08/07/14	11:45	03:03	(unrelated sample)
ZZZZZZ	V33613.D	08/07/14	12:11	03:29	(unrelated sample)
ZZZZZZ	V33614.D	08/07/14	12:37	03:55	(unrelated sample)
ZZZZZZ	V33615.D	08/07/14	13:03	04:21	(unrelated sample)
ZZZZZZ	V33616.D	08/07/14	13:30	04:48	(unrelated sample)
ZZZZZZ	V33618.D	08/07/14	14:22	05:40	(unrelated sample)
MC32523-4	V33619.D	08/07/14	14:48	06:06	(used for QC only; not part of job MC32489)
ZZZZZZ	V33620.D	08/07/14	15:14	06:32	(unrelated sample)
MC32489-1	V33621.D	08/07/14	15:40	06:58	LBA-MW-41
MC32523-4MS	V33622.D	08/07/14	16:06	07:24	Matrix Spike
MC32523-4MSD	V33623.D	08/07/14	16:32	07:50	Matrix Spike Duplicate
ZZZZZZ	V33624.D	08/07/14	16:58	08:16	(unrelated sample)
ZZZZZZ	V33625.D	08/07/14	17:25	08:43	(unrelated sample)
ZZZZZZ	V33626.D	08/07/14	17:51	09:09	(unrelated sample)
ZZZZZZ	V33627.D	08/07/14	18:16	09:34	(unrelated sample)
ZZZZZZ	V33628.D	08/07/14	18:43	10:01	(unrelated sample)
ZZZZZZ	V33629.D	08/07/14	19:09	10:27	(unrelated sample)
ZZZZZZ	V33630.D	08/07/14	19:35	10:53	(unrelated sample)

Volatile Internal Standard Area Summary

Page 1 of 1

Job Number: MC32489

Account: WSPVAR WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Check Std: MSV1231-CC1226

Injection Date: 08/07/14

Lab File ID: V33605.D

Injection Time: 08:42

Instrument ID: GCMSV

Method: SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	131388	6.56	175611	7.74	79186	11.08	105861	13.30	17728	3.51
Upper Limit ^a	262776	7.06	351222	8.24	158372	11.58	211722	13.80	35456	4.01
Lower Limit ^b	65694	6.06	87806	7.24	39593	10.58	52931	12.80	8864	3.01

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
MSV1231-BS	136119	6.56	183002	7.75	85129	11.08	108659	13.30	19064	3.51
MSV1231-BSD	127252	6.56	169586	7.75	78371	11.08	101263	13.29	19750	3.51
MSV1231-MB	216082	6.57	277853	7.75	120296	11.08	112589	13.29	40283 ^c	3.52
ZZZZZZ	208799	6.57	268659	7.75	117326	11.08	107192	13.30	35293	3.52
ZZZZZZ	190969	6.57	247263	7.75	107539	11.08	98051	13.29	33250	3.51
ZZZZZZ	184563	6.56	232526	7.74	110098	11.08	96250	13.30	31775	3.51
ZZZZZZ	178638	6.57	229846	7.75	100346	11.08	94606	13.30	38703 [*]	3.52
ZZZZZZ	218530	6.57	288817	7.75	134683	11.08	127052	13.30	33851	3.52
ZZZZZZ	213721	6.57	274631	7.75	120161	11.08	147764	13.30	34184	3.52
ZZZZZZ	390669 [*]	6.57	564437 [*]	7.75	215910 [*]	11.09	323406 [*]	13.30	105310 [*]	3.54
ZZZZZZ	242976	6.57	307203	7.75	126462	11.09	119210	13.30	41545 [*]	3.52
MC32523-4	213924	6.56	274010	7.75	115420	11.08	104650	13.30	37975 ^d	3.51
ZZZZZZ	205879	6.56	261640	7.75	109295	11.08	100314	13.30	35399	3.51
MC32489-1	199700	6.57	252777	7.75	105796	11.08	97480	13.30	35649 ^c	3.52
MC32523-4MS	263885 ^d	6.56	350644	7.75	156251	11.08	201116	13.30	42461 ^d	3.51
MC32523-4MSD	270632 ^d	6.56	355281 ^d	7.75	157253	11.08	198589	13.30	49759 ^d	3.52
ZZZZZZ	244258	6.57	314148	7.75	129124	11.08	129370	13.30	51504 [*]	3.52
ZZZZZZ	200560	6.56	257032	7.74	106280	11.08	96297	13.29	38735 [*]	3.51
ZZZZZZ	194474	6.56	248145	7.74	104139	11.08	94586	13.29	41010 [*]	3.51
ZZZZZZ	181938	6.56	233542	7.74	98179	11.08	91843	13.29	42505 [*]	3.50
ZZZZZZ	192718	6.56	248592	7.75	106484	11.08	93737	13.29	40193 [*]	3.51
ZZZZZZ	187015	6.56	241135	7.74	102473	11.08	91910	13.29	38586 [*]	3.51
ZZZZZZ	284005 [*]	6.56	366946 [*]	7.74	151335	11.08	238842 [*]	13.29	109099 [*]	3.52

IS 1 = Pentafluorobenzene

IS 2 = 1,4-Difluorobenzene

IS 3 = Chlorobenzene-D5

IS 4 = 1,4-Dichlorobenzene-d4

IS 5 = Tert Butyl Alcohol-D9

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.

(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

(c) Outside control limits. Target analytes not associated with this internal standard.

(d) Outside control limits due to possible matrix interference. Confirmed by reanalysis.

Volatile Surrogate Recovery Summary

Job Number: MC32489
Account: WSPVAR WSP Environmental & Energy
Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Method: SW846 8260C	Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
MC32489-1	V33621.D	113	102	111
MC32523-4MS	V33622.D	111	106	92
MC32523-4MSD	V33623.D	109	107	93
MSV1231-BS	V33606.D	114	109	93
MSV1231-BSD	V33607.D	112	109	93
MSV1231-MB	V33609.D	113	103	111

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	70-130%
S2 = Toluene-D8	70-130%
S3 = 4-Bromofluorobenzene	70-130%

Initial Calibration Summary

Page 1 of 6

Job Number: MC32489
Account: WSPVAR WSP Environmental & Energy
Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY
Sample: MSV1226-ICC1226
Lab FileID: V33448.D

Response Factor Report MSV

Method : C:\msdchem\1\METHODS\140801w.m (RTE Integrator)
 Title : SW-846 Method 8260
 Last Update : Fri Aug 01 17:44:41 2014
 Response via : Initial Calibration

Calibration Files

2	=v33444.D	0.5	=v33442.D	1	=v33443.D	25	=v33447.D
5	=v33445.D	10	=v33446.D	50	=v33448.D	100	=v33449.D
200	=v33451.D	400	=v33452.D				

Compound	2	0.5	1	25	5	10	50	100	200	400	Avg	%RSD

1) I tert butyl alcohol-d9	-----ISTD-----											
2) tertiary butyl alcohol				0.814	0.684	0.775	0.841	0.898	0.902	0.981	0.842	11.52
3) Ethanol				0.076	0.105	0.092	0.077	0.071	0.064	0.057	0.077	21.16
	---- Linear regression ---- Coefficient = 0.9913											
	Response Ratio = 0.06308 + 0.06044 *A											
4) I pentafluorobenzene	-----ISTD-----											
5) dichlorodifluoromethane	1.922		2.228	2.272	2.469	2.521	2.126	1.802	1.033		2.047	23.33
	---- Quadratic regression ---- Coefficient = 0.9993											
	Response Ratio = -0.01018 + 2.53299 *A + -0.37355 *A^2											
6) chloromethane												
	1.104		1.239	1.311	1.377	1.462	1.257	1.096	0.671		1.189	20.51
	---- Quadratic regression ---- Coefficient = 0.9997											
	Response Ratio = -0.01562 + 1.50371 *A + -0.20701 *A^2											
7) vinyl chloride												
	0.882		1.294	1.301	1.366	1.506	1.249	1.093	0.665		1.170	23.64
	---- Quadratic regression ---- Coefficient = 0.9980											
	Response Ratio = -0.00933 + 1.47695 *A + -0.20147 *A^2											
8) bromomethane												
	0.725		0.738	0.800	0.862	0.941	0.775	0.672	0.415		0.741	21.05
	---- Quadratic regression ---- Coefficient = 0.9990											
	Response Ratio = -0.00407 + 0.90942 *A + -0.12287 *A^2											
9) chloroethane												
	0.360		0.486	0.468	0.522	0.550	0.443	0.393	0.252		0.434	22.23
	---- Quadratic regression ---- Coefficient = 0.9982											
	Response Ratio = -0.00186 + 0.52196 *A + -0.06707 *A^2											
10) ethyl ether												
	0.439		0.413	0.500	0.484	0.486	0.406	0.381	0.232		0.418	20.71
	---- Quadratic regression ---- Coefficient = 0.9981											
	Response Ratio = -0.00331 + 0.51319 *A + -0.06998 *A^2											
11) acetonitrile												
	1.123		1.163	1.130	1.032	1.019	1.079	1.058	0.788	0.761	1.017	14.28
12) trichlorofluoromethane												
	1.135		1.889	1.946	2.066	2.205	1.841	1.629	1.032		1.718	24.82

6.7.1
6

Initial Calibration Summary

Job Number: MC32489

Sample: MSV1226-ICC1226

Account: WSPVAR WSP Environmental & Energy

Lab FileID: V33448.D

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

---- Quadratic regression ---- Coefficient = 0.9978
Response Ratio = -0.01521 + 2.17492 *A + -0.28369 *A^2

13) freon-113

0.979 0.764 0.649 0.941 0.853 0.599 0.797 19.36

---- Quadratic regression ---- Coefficient = 0.9996
Response Ratio = -0.06228 + 1.14654 *A + -0.13292 *A^2

14) acrolein

0.035 0.054 0.054 0.063 0.053 0.049 0.034 0.049# 21.29

---- Quadratic regression ---- Coefficient = 0.9984
Response Ratio = -0.00446 + 0.06220 *A + -0.00136 *A^2

15) 1,1-dichloroethene

0.611 0.575 0.717 0.668 0.586 0.664 0.619 0.447 0.441 0.592 15.99

16) acetone

0.093 0.077 0.093 0.084 0.062 0.049 0.076# 23.10

---- Quadratic regression ---- Coefficient = 0.9914
Response Ratio = 0.00003 + 0.09022 *A + -0.00530 *A^2

17) Methyl Acetate

0.337 0.295 0.307 0.309 0.288 0.280 0.199 0.202 0.277 18.13

18) methylene chloride

0.821 0.712 0.707 0.715 0.717 0.661 0.630 0.480 0.486 0.659 17.04

19) methyl tert butyl ether

1.367 1.241 1.146 1.174 1.160 1.155 1.158 0.951 1.026 1.153 10.22

20) acrylonitrile

0.167 0.139 0.156 0.163 0.161 0.122 0.125 0.148 12.62

21) allyl chloride

1.123 1.163 1.130 1.032 1.019 1.078 1.058 0.788 0.761 1.017 14.28

22) trans-1,2-dichloroethene

0.605 0.561 0.651 0.614 0.598 0.610 0.593 0.480 0.480 0.577 10.34

23) iodomethane

1.916 1.816 1.742 1.761 1.726 1.660 1.570 1.143 1.157 1.610 17.25

24) carbon disulfide

1.501 1.584 2.025 1.622 1.576 2.038 2.016 1.524 1.574 1.718 13.63

25) propionitrile

0.034 0.007 0.039 0.043 0.040 0.042 0.034# 40.02

---- Linear regression ---- Coefficient = 0.9982
Response Ratio = -0.00607 + 0.04319 *A

26) vinyl acetate

1.620 1.426 1.383 1.384 1.476 1.524 1.288 1.303 1.426 7.84

27) chloroprene

0.706 0.899 0.777 0.719 0.855 0.859 0.716 0.707 0.780 10.25

28) di-isopropyl ether

2.158 1.923 1.938 1.872 1.873 1.946 1.953 1.594 1.602 1.873 9.45

29) methacrylonitrile

0.195 0.160 0.191 0.199 0.205 0.188 0.196 0.190 7.68

30) 2-butanone

0.036 0.020 0.042 0.044 0.042 0.038 0.037# 23.98

---- Linear regression ---- Coefficient = 0.9937
Response Ratio = -0.00255 + 0.04054 *A

31) Hexane

0.350 0.614 0.516 0.440 0.582 0.555 0.444 0.422 0.490 18.49

32) 1,1-dichloroethane

1.182 1.074 1.148 1.118 1.096 1.104 1.095 0.935 0.951 1.078 7.70

33) tert-butyl ethyl ether

1.358 1.122 1.217 1.167 1.168 1.251 1.287 1.210 1.300 1.231 6.10

Initial Calibration Summary

Job Number: MC32489

Sample: MSV1226-ICC1226

Account: WSPVAR WSP Environmental & Energy

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Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

34)	isobutyl alcohol	0.324	0.302	0.285	0.277	0.277	0.295	0.305	0.258	0.261	0.287	7.54
35)	2,2-dichloropropane		0.626	0.507	0.482	0.673	0.727	0.729	0.737	0.640		16.75
36)	cis-1,2-dichloroethene	0.567	0.477	0.533	0.538	0.513	0.522	0.526	0.497	0.514	0.521	4.91
37)	ethyl acetate	1.620		1.426	1.383	1.384	1.476	1.524	1.286	1.301	1.425	7.89
38)	bromochloromethane	0.226		0.257	0.236	0.252	0.256	0.263	0.251	0.269	0.251	5.57
39)	chloroform	1.012	0.928	0.944	0.941	0.918	0.925	0.953	0.911	0.950	0.942	3.16
40)	dibromofluoromethane (s)		0.524	0.473	0.524	0.528	0.550	0.534	0.584	0.531		6.27
41)	Tetrahydrofuran		0.066	0.008	0.058	0.071	0.074	0.069	0.072	0.060		38.92
	---- Linear regression ----											
	Response Ratio =		-0.00484									
42)	1,1,1-trichloroethane	0.674	0.921	0.655	0.863	0.729	0.689	0.887	0.929	0.913	0.986	15.03
43)	I 1,4-difluorobenzene	-----ISTD-----										
44)	Cyclohexane		0.769	0.752	0.566	0.736	0.716	0.637	0.655	0.690		10.64
45)	carbon tetrachloride	0.424		0.655	0.485	0.458	0.673	0.719	0.663	0.703	0.597	20.14
	---- Linear regression ----											
	Response Ratio =		-0.01782									
46)	1,1-dichloropropene	0.370	0.388	0.502	0.436	0.395	0.476	0.494	0.460	0.461	0.442	10.89
47)	benzene	1.360	2.580	1.447	1.202	1.204	1.129	1.158	1.193	1.146	1.188	32.33
	---- Linear regression ----											
	Response Ratio =		0.00976									
48)	1,2-dichloroethane	0.548	0.470	0.521	0.520	0.501	0.508	0.526	0.477	0.488	0.506	4.95
49)	tert-amyl methyl ether	0.556	0.470	0.525	0.494	0.493	0.537	0.586	0.603	0.664	0.547	11.31
50)	heptane	0.263	0.326	0.417	0.330	0.305	0.405	0.411	0.379	0.362	0.355	14.94
51)	trichloroethene	0.356	0.515	0.292	0.357	0.340	0.313	0.342	0.361	0.363	0.375	16.47
52)	1,2-dichloropropane	0.349	0.265	0.331	0.328	0.310	0.331	0.347	0.351	0.363	0.331	8.81
53)	dibromomethane	0.153	0.174	0.169	0.165	0.172	0.183	0.183	0.194	0.174		7.22
54)	bromodichloromethane	0.342	0.265	0.359	0.312	0.312	0.371	0.414	0.436	0.468	0.364	17.97
55)	Methylcyclohexane		0.478	0.369	0.327	0.466	0.477	0.473	0.500	0.441		14.87
56)	2-chloroethyl vinyl ether		0.084	0.070	0.081	0.089	0.097	0.101	0.117	0.091		16.76
57)	methyl methacrylate		0.089	0.067	0.072	0.094	0.108	0.117	0.128	0.096		23.47
	---- Linear regression ----											
	Response Ratio =		-0.00963									

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58)	1,4-dioxane											0.000#	-1.00
59)	cis-1,3-dichloropropene	0.272	0.359	0.233	0.322	0.261	0.277	0.336	0.384	0.424		0.319	19.79
	---- Quadratic regression ----	Coefficient = 0.9990											
	Response Ratio =	-0.00084 + 0.31152 *A + 0.02895 *A^2											
60)	toluene-d8 (s)												
				0.948	0.861	0.941	0.945	0.999	1.058	1.180		0.990	10.41
61)	4-methyl-2-pentanone	0.159		0.174	0.160	0.164	0.193	0.203	0.209	0.217		0.185	12.79
62)	toluene	0.652		0.630	0.630	0.627	0.597	0.623	0.663	0.740	0.784	0.661	9.27
63)	trans-1,3-dichloropropene	0.167	0.229	0.115	0.218	0.170	0.176	0.237	0.280	0.330	0.370	0.229	34.46
	---- Quadratic regression ----	Coefficient = 0.9975											
	Response Ratio =	-0.00210 + 0.24373 *A + 0.01643 *A^2											
64)	1,1,2-trichloroethane	0.159		0.110	0.149	0.148	0.147	0.155	0.165	0.180	0.201	0.157	15.88
65)	ethyl methacrylate			0.178	0.134	0.144	0.199	0.223	0.256	0.287		0.203	27.81
	---- Quadratic regression ----	Coefficient = 0.9993											
	Response Ratio =	-0.01103 + 0.21021 *A + 0.00997 *A^2											
66) I	chlorobenzene-d5	-----ISTD-----											
67)	tetrachloroethene	0.724	1.212	0.739	0.870	0.772	0.700	0.856	0.912	0.951	0.965	0.870	17.62
68)	1,3-dichloropropane	0.852		0.667	0.756	0.772	0.724	0.766	0.816	0.824	0.847	0.780	7.80
69)	dibromochloromethane	0.419	0.397	0.274	0.541	0.447	0.453	0.602	0.706	0.758	0.817	0.541	32.42
	---- Quadratic regression ----	Coefficient = 0.9978											
	Response Ratio =	-0.00642 + 0.62622 *A + 0.02505 *A^2											
70)	1,2-dibromoethane	0.492		0.354	0.484	0.449	0.449	0.503	0.536	0.544	0.573	0.487	13.38
71)	2-hexanone	0.325		0.450	0.370	0.395	0.501	0.507	0.531	0.412		0.436	16.76
72)	chlorobenzene	2.074		1.914	1.893	1.896	1.812	1.862	1.934	1.986	1.991	1.929	4.05
73)	1,1,1,2-tetrachloroethane	0.625		0.414	0.751	0.633	0.655	0.827	0.916	0.973	0.982	0.753	25.23
	---- Linear regression ----	Coefficient = 0.9963											
	Response Ratio =	-0.01963 + 0.95766 *A											
74)	ethylbenzene	3.324	5.282	3.107	3.295	3.151	3.037	3.279	3.493	3.636	3.460	3.506	18.55
75)	m,p-xylene	1.272	1.989	1.156	1.264	1.177	1.160	1.256	1.375	1.446	1.374	1.347	18.26
76)	o-xylene	1.300	1.723	1.156	1.259	1.222	1.157	1.288	1.422	1.497	1.473	1.350	13.23
77)	styrene	1.923		1.656	1.928	1.868	1.810	1.942	2.153	2.313	2.236	1.981	10.72
78)	bromoform			0.251	0.170	0.205	0.289	0.376	0.436	0.465		0.313	36.61
	---- Quadratic regression ----	Coefficient = 0.9967											
	Response Ratio =	-0.02800 + 0.35477 *A + 0.01497 *A^2											

Initial Calibration Summary

Job Number: MC32489

Sample: MSV1226-ICC1226

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79)	trans-1,4-dichloro-2-butene	0.142	0.110	0.126	0.158	0.191	0.202	0.200	0.161	23.00
	---- Linear regression ----	Coefficient = 0.9969								
		Response Ratio = -0.01428 + 0.19993 *A								
80)	I 1,4-dichlorobenzene-d -----ISTD-----									
81)	isopropylbenzene	2.862	2.868	3.199	2.879	2.812	3.248	2.870	3.175	7.14
82)	bromofluorobenzene (s)	0.877	0.845	0.900	0.881	0.782	0.840	0.929	0.865	5.50
83)	bromobenzene	0.836	0.804	0.811	0.807	0.770	0.802	0.713	0.789	4.95
84)	1,1,2,2-tetrachloroethane	0.472	0.664	0.350	0.475	0.472	0.469	0.506	0.451	15.91
85)	1,2,3-trichloropropane	0.445	0.564	0.413	0.414	0.585	0.548	0.605	0.665	17.90
86)	n-propylbenzene	3.320	3.317	3.633	3.345	3.173	3.605	3.241	3.585	5.58
87)	2-chlorotoluene	2.393	2.217	2.250	2.202	2.096	2.225	2.037	2.222	4.71
88)	4-chlorotoluene	2.636	2.563	2.599	2.520	2.422	2.532	2.401	2.517	3.02
89)	1,3,5-trimethylbenzene	2.641	2.619	2.850	2.683	2.554	2.890	2.763	3.000	6.52
90)	tert-butylbenzene	1.223	1.229	1.490	1.280	1.244	1.512	1.482	1.629	12.68
91)	1,2,4-trimethylbenzene	2.838	2.619	2.830	2.689	2.595	2.879	2.792	2.973	5.30
92)	sec-butylbenzene	2.603	2.687	3.246	2.850	2.688	3.301	3.286	3.506	12.29
93)	1,3-dichlorobenzene	1.746	1.704	1.536	1.557	1.494	1.530	1.528	1.598	5.41
94)	p-isopropyltoluene	2.463	2.462	2.931	2.595	2.535	2.979	3.083	3.160	10.98
95)	1,4-dichlorobenzene	1.763	1.698	1.567	1.581	1.506	1.539	1.613	1.584	4.93
96)	1,2-dichlorobenzene	1.720	1.532	1.449	1.487	1.417	1.464	1.538	1.475	5.82
97)	n-butylbenzene	2.108	2.209	2.487	2.190	2.075	2.476	2.546	2.526	8.26
98)	1,2-dibromo-3-chloropropane	0.052	0.015	0.046	0.062	0.071	0.071	0.085	0.057	39.99
	---- Linear regression ----	Coefficient = 0.9912								
		Response Ratio = -0.00842 + 0.08010 *A								
99)	1,3,5-trichlorobenzene	1.169	1.166	1.088	1.097	1.042	1.097	1.113	1.143	5.07
100)	1,2,4-trichlorobenzene	0.975	0.799	0.855	0.833	0.846	0.892	0.875	0.914	8.56
101)	hexachlorobutadiene	0.346	0.350	0.310	0.344	0.341	0.391	0.430	0.359	10.93
102)	naphthalene	1.171	0.956	1.174	1.050	1.120	1.331	1.371	1.398	19.13
103)	1,2,3-trichlorobenzene	0.721	0.663	0.674	0.677	0.660	0.723	0.725	0.750	10.83
104)	2-Methylnaphthalene	0.328	0.279	0.465	0.505	0.508	0.733	0.470	34.12	
	---- Quadratic regression ----	Coefficient = 0.9970								
		Response Ratio = -0.00972 + 0.38695 *A + 0.08513 *A^2								

Initial Calibration Summary

Job Number: MC32489

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Sample: MSV1226-ICC1226

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105) 1-Methylnaphthalene

0.296	0.254	0.388	0.399	0.373	0.531	0.373	25.61

---- Quadratic regression ---- Coefficient = 0.9949

Response Ratio = -0.00251 + 0.31140 *A + 0.05302 *A^2

(#) = Out of Range ### Number of calibration levels exceeded format ###

v140801w.m Mon Aug 04 12:45:54 2014

6.7.1
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Initial Calibration Verification

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Job Number: MC32489

Sample: MSV1226-ICV1226

Account: WSPVAR WSP Environmental & Energy

Lab FileID: V33457.D

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\V140801\v33457.D Vial: 19
 Acq On : 1 Aug 2014 5:26 pm Operator: amym
 Sample : cc1226-50 Inst : MSV
 Misc : MS32359,MSV1226,,,,5,1 Multiplr: 1.00
 MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\v140801w.m (RTE Integrator)
 Title : SW-846 Method 8260
 Last Update : Fri Aug 01 17:44:41 2014
 Response via : Multiple Level Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	tert butyl alcohol-d9	1.000	1.000	0.0	42#	0.00	3.50
2 p	tertiary butyl alcohol	0.842	0.615	27.0#	31#	0.00	3.61
----- Amount Calc. %Drift -----							
3 p	Ethanol	5000.000	7981.456	-59.6#	57	0.00	2.48
----- AvgRF CCRF %Dev -----							
4 I	pentafluorobenzene	1.000	1.000	0.0	63	0.00	6.54
----- Amount Calc. %Drift -----							
5 p	dichlorodifluoromethane	50.000	39.792	20.4#	52	0.00	1.49
6 P	chloromethane	50.000	42.226	15.5	56	0.00	1.61
7 p	vinyl chloride	50.000	40.703	18.6	54	0.00	1.72
8 p	bromomethane	50.000	42.441	15.1	55	0.00	2.00
9 p	chloroethane	50.000	50.731	-1.5	65	0.00	2.10
10 p	ethyl ether	50.000	42.350	15.3	59	0.00	2.59
----- AvgRF CCRF %Dev -----							
11 p	acetonitrile	1.017	1.103	-8.5	64	0.00	3.28
----- Amount Calc. %Drift -----							
12 p	trichlorofluoromethane	50.000	38.492	23.0#	51	0.00	2.33
13 p	freon-113	50.000	46.652	6.7	60	0.00	2.89
14 p	acrolein	250.000	188.342	24.7#	50	0.00	2.74
----- AvgRF CCRF %Dev -----							
15 p	1,1-dichloroethene	0.592	0.685	-15.7	65	0.00	2.85
----- Amount Calc. %Drift -----							
16 p	acetone	50.000	41.166	17.7	48	0.00	2.89
----- AvgRF CCRF %Dev -----							
17 p	Methyl Acetate	0.277	0.331	-19.5	73	0.00	3.26
18 p	methylene chloride	0.659	0.661	-0.3	63	0.00	3.44
19 p	methyl tert butyl ether	1.153	1.144	0.8	62	0.00	3.82
20 p	acrylonitrile	0.148	0.156	-5.4	60	0.00	3.76
21 p	allyl chloride	1.017	1.103	-8.5	65	0.00	3.28
22 p	trans-1,2-dichloroethene	0.577	0.621	-7.6	64	0.00	3.82
23 p	iodomethane	1.610	1.666	-3.5	63	0.00	3.02
24 p	carbon disulfide	1.718	2.255	-31.3#	70	0.00	3.10

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		Amount	Calc.	%Drift			
25 p	propionitrile	50.000	52.450	-4.9	63	0.00	5.62
		AvgRF	CCRF	%Dev			
26 p	vinyl acetate	1.426	1.324	7.2	57	0.00	4.56
27 p	chloroprene	0.780	1.047	-34.2#	77	0.00	4.60
28 p	di-isopropyl ether	1.873	1.929	-3.0	63	0.00	4.59
29 p	methacrylonitrile	0.190	0.198	-4.2	63	0.00	5.90
		Amount	Calc.	%Drift			
30 p	2-butanone	50.000	44.827	10.3	51	0.00	5.51
		AvgRF	CCRF	%Dev			
31 p	Hexane	0.490	0.570	-16.3	62	0.00	4.23
32 P	1,1-dichloroethane	1.078	1.128	-4.6	64	0.00	4.49
33 p	tert-butyl ethyl ether	1.231	1.327	-7.8	67	0.00	5.25
34 p	isobutyl alcohol	0.287	0.265	7.7	57	0.00	4.56
35 p	2,2-dichloropropane	0.640	0.686	-7.2	64	0.00	5.53
36 p	cis-1,2-dichloroethene	0.521	0.534	-2.5	65	0.00	5.51
37 p	ethyl acetate	1.425	1.324	7.1	57	0.00	4.56
38 p	bromochloromethane	0.251	0.265	-5.6	65	0.00	5.93
39 p	chloroform	0.942	0.921	2.2	63	0.00	6.15
40 S	dibromofluoromethane (s)	0.531	0.524	1.3	63	0.00	6.42
		Amount	Calc.	%Drift			
41 p	Tetrahydrofuran	50.000	49.975	0.0	60	0.00	5.94
		AvgRF	CCRF	%Dev			
42 p	1,1,1-trichloroethane	0.825	0.877	-6.3	62	0.00	6.40
43 I	1,4-difluorobenzene	1.000	1.000	0.0	64	0.00	7.73
44 p	Cyclohexane	0.690	0.759	-10.0	66	0.00	6.50
		Amount	Calc.	%Drift			
45 p	carbon tetrachloride	50.000	48.091	3.8	62	0.00	6.65
		AvgRF	CCRF	%Dev			
46 p	1,1-dichloropropene	0.442	0.464	-5.0	63	0.00	6.67
		Amount	Calc.	%Drift			
47 p	benzene	50.000	51.623	-3.2	68	0.00	6.98
		AvgRF	CCRF	%Dev			
48 p	1,2-dichloroethane	0.506	0.489	3.4	62	0.00	7.11
49 p	tert-amyl methyl ether	0.547	0.619	-13.2	74	0.00	7.27
50 p	heptane	0.355	0.395	-11.3	63	0.00	7.55
51 p	trichloroethene	0.361	0.353	2.2	66	0.00	8.02
52 p	1,2-dichloropropane	0.331	0.342	-3.3	67	0.00	8.37
53 p	dibromomethane	0.174	0.177	-1.7	66	0.00	8.47
54 p	bromodichloromethane	0.364	0.407	-11.8	71	0.00	8.73
55 p	Methylcyclohexane	0.441	0.502	-13.8	69	0.00	8.32
56 p	2-chloroethyl vinyl ether	0.091	0.091	0.0	66	0.00	9.10
		Amount	Calc.	%Drift			
57 p	methyl methacrylate	50.000	47.270	5.5	73	0.00	8.50
		AvgRF	CCRF	%Dev			
58 p	1,4-dioxane	0.000	0.004#	0.0	0#	-0.06	8.42
		Amount	Calc.	%Drift			

Initial Calibration Verification

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59 p	cis-1,3-dichloropropene	50.000	53.536	-7.1	70	0.00	9.25
	----- AvgRF	CCRF	%Dev	-----			
60 S	toluene-d8 (s)	0.990	1.002	-1.2	68	0.00	9.54
61 p	4-methyl-2-pentanone	0.185	0.185	0.0	62	0.00	9.44
62 p	toluene	0.661	0.674	-2.0	70	0.00	9.62
	----- Amount	Calc.	%Drift	-----			
63 p	trans-1,3-dichloropropene	50.000	52.779	-5.6	74	0.00	9.91
	----- AvgRF	CCRF	%Dev	-----			
64 p	1,1,2-trichloroethane	0.157	0.158	-0.6	65	0.00	10.11
	----- Amount	Calc.	%Drift	-----			
65 p	ethyl methacrylate	50.000	48.848	2.3	66	0.00	9.99
	----- AvgRF	CCRF	%Dev	-----			
66 I	chlorobenzene-d5	1.000	1.000	0.0	66	0.00	11.07
67 p	tetrachloroethene	0.870	0.894	-2.8	69	0.00	10.17
68 p	1,3-dichloropropane	0.780	0.776	0.5	67	0.00	10.27
	----- Amount	Calc.	%Drift	-----			
69 p	dibromochloromethane	50.000	50.086	-0.2	71	0.00	10.49
	----- AvgRF	CCRF	%Dev	-----			
70 p	1,2-dibromoethane	0.487	0.510	-4.7	67	0.00	10.60
71 p	2-hexanone	0.436	0.375	14.0	50#	0.00	10.35
72 P	chlorobenzene	1.929	1.981	-2.7	71	0.00	11.10
	----- Amount	Calc.	%Drift	-----			
73 p	1,1,1,2-tetrachloroethane	50.000	44.348	11.3	67	0.00	11.20
	----- AvgRF	CCRF	%Dev	-----			
74 p	ethylbenzene	3.506	3.448	1.7	70	0.00	11.20
75 p	m,p-xylene	1.347	1.341	0.4	71	0.00	11.34
76 p	o-xylene	1.350	1.370	-1.5	71	0.00	11.70
77 p	styrene	1.981	2.121	-7.1	72	0.00	11.72
	----- Amount	Calc.	%Drift	-----			
78 P	bromoform	50.000	46.184	7.6	72	0.00	11.90
79 p	trans-1,4-dichloro-2-bute	50.000	40.899	18.2	63	0.00	12.11
	----- AvgRF	CCRF	%Dev	-----			
80 I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	68	0.00	13.28
81 p	isopropylbenzene	3.033	3.458	-14.0	72	0.00	12.05
82 S	bromofluorobenzene (s)	0.865	0.876	-1.3	68	0.00	12.22
83 p	bromobenzene	0.798	0.831	-4.1	71	0.00	12.34
84 P	1,1,2,2-tetrachloroethane	0.486	0.503	-3.5	68	0.00	12.35
85 p	1,2,3-trichloropropane	0.530	0.574	-8.3	67	0.00	12.39
86 p	n-propylbenzene	3.434	3.784	-10.2	71	0.00	12.44
87 p	2-chlorotoluene	2.216	2.286	-3.2	70	0.00	12.52
88 p	4-chlorotoluene	2.527	2.570	-1.7	69	0.00	12.63
89 p	1,3,5-trimethylbenzene	2.787	2.890	-3.7	68	0.00	12.61
90 p	tert-butylbenzene	1.420	1.536	-8.2	69	0.00	12.90
91 p	1,2,4-trimethylbenzene	2.804	3.020	-7.7	71	0.00	12.95
92 p	sec-butylbenzene	3.084	3.400	-10.2	70	0.00	13.10
93 p	1,3-dichlorobenzene	1.591	1.597	-0.4	71	0.00	13.21
94 p	p-isopropyltoluene	2.826	3.084	-9.1	70	0.00	13.24

Initial Calibration Verification

Page 4 of 4

Job Number: MC32489

Sample: MSV1226-ICV1226

Account: WSPVAR WSP Environmental & Energy

Lab FileID: V33457.D

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

95 p	1,4-dichlorobenzene	1.608	1.596	0.7	71	0.00	13.30
96 p	1,2-dichlorobenzene	1.510	1.519	-0.6	71	0.00	13.62
97 p	n-butylbenzene	2.344	2.579	-10.0	71	0.00	13.61
----- Amount Calc. %Drift -----							
98 p	1,2-dibromo-3-chloropropa	50.000	42.493	15.0	66	0.00	14.32
----- AvgRF CCRF %Dev -----							
99 p	1,3,5-trichlorobenzene	1.128	1.163	-3.1	72	0.00	14.49
100 p	1,2,4-trichlorobenzene	0.893	0.914	-2.4	70	0.00	15.04
101 p	hexachlorobutadiene	0.359	0.355	1.1	70	0.00	15.16
102 p	naphthalene	1.260	1.312	-4.1	67	0.00	15.28
103 p	1,2,3-trichlorobenzene	0.723	0.723	0.0	68	0.00	15.47
----- Amount Calc. %Drift -----							
104 p	2-Methylnaphthalene	25.000	53.038	-112.2#	145	0.00	16.27
105 p	1-Methylnaphthalene	25.000	52.925	-111.7#	136	0.00	16.44

(#) = Out of Range

v33448.D v140801w.m

SPCC's out = 1 CCC's out = 0

Mon Aug 04 12:49:13 2014

6.7.2
6

Continuing Calibration Summary

Page 1 of 4

Job Number: MC32489

Sample: MSV1231-CC1226

Account: WSPVAR WSP Environmental & Energy

Lab FileID: V33605.D

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\V140807\v33605.D Vial: 2
 Acq On : 7 Aug 2014 8:42 am Operator: amym
 Sample : cc1226-50 Inst : MSV
 Misc : MS32448,MSV1231,,,,5,1 Multiplr: 1.00
 MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\v140801w.m (RTE Integrator)
 Title : SW-846 Method 8260
 Last Update : Fri Aug 01 17:44:41 2014
 Response via : Multiple Level Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	tert butyl alcohol-d9	1.000	1.000	0.0	33#	0.01	3.51
2 p	tertiary butyl alcohol	0.842	1.355	-60.9#	54	0.02	3.62
----- Amount Calc. %Drift -----							
3 p	Ethanol	5000.000	15542.779	-210.9#	85	0.01	2.49
----- AvgRF CCRF %Dev -----							
4 I	pentafluorobenzene	1.000	1.000	0.0	66	0.02	6.56
----- Amount Calc. %Drift -----							
5 p	dichlorodifluoromethane	50.000	37.253	25.5#	52	0.01	1.50
6 P	chloromethane	50.000	52.128	-4.3	70	0.01	1.61
7 p	vinyl chloride	50.000	46.047	7.9	62	0.01	1.72
8 p	bromomethane	50.000	49.703	0.6	66	0.02	2.01
9 p	chloroethane	50.000	51.336	-2.7	69	0.02	2.10
10 p	ethyl ether	50.000	46.928	6.1	68	0.02	2.60
----- AvgRF CCRF %Dev -----							
11 p	acetonitrile	1.017	1.157	-13.8	71	0.02	3.29
----- Amount Calc. %Drift -----							
12 p	trichlorofluoromethane	50.000	55.043	-10.1	73	0.02	2.34
13 p	freon-113	50.000	42.085	15.8	57	0.02	2.91
14 p	acrolein	250.000	254.918	-2.0	69	0.02	2.75
----- AvgRF CCRF %Dev -----							
15 p	1,1-dichloroethene	0.592	0.534	9.8	53	0.02	2.86
----- Amount Calc. %Drift -----							
16 p	acetone	50.000	45.625	8.8	55	0.02	2.90
----- AvgRF CCRF %Dev -----							
17 p	Methyl Acetate	0.277	0.304	-9.7	70	0.02	3.28
18 p	methylene chloride	0.659	0.607	7.9	61	0.02	3.46
19 p	methyl tert butyl ether	1.153	1.021	11.4	58	0.02	3.84
20 p	acrylonitrile	0.148	0.182	-23.0#	74	0.02	3.78
21 p	allyl chloride	1.017	1.157	-13.8	71	0.02	3.29
22 p	trans-1,2-dichloroethene	0.577	0.567	1.7	61	0.02	3.83
23 p	iodomethane	1.610	1.304	19.0	52	0.02	3.03
24 p	carbon disulfide	1.718	1.586	7.7	51	0.02	3.12

Continuing Calibration Summary

Page 2 of 4

Job Number: MC32489

Sample: MSV1231-CC1226

Account: WSPVAR WSP Environmental & Energy

Lab FileID: V33605.D

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

		Amount	Calc.	%Drift			
25 p	propionitrile	50.000	58.727	-17.5	75	0.02	5.64
		AvgRF	CCRF	%Dev			
26 p	vinyl acetate	1.426	1.832	-28.5#	82	0.03	4.58
27 p	chloroprene	0.780	1.059	-35.8#	82	0.03	4.62
28 p	di-isopropyl ether	1.873	2.452	-30.9#	83	0.03	4.61
29 p	methacrylonitrile	0.190	0.253	-33.2#	84	0.03	5.92
		Amount	Calc.	%Drift			
30 p	2-butanone	50.000	50.616	-1.2	61	0.03	5.53
		AvgRF	CCRF	%Dev			
31 p	Hexane	0.490	0.618	-26.1#	70	0.02	4.25
32 P	1,1-dichloroethane	1.078	1.227	-13.8	73	0.03	4.51
33 p	tert-butyl ethyl ether	1.231	1.230	0.1	65	0.03	5.27
34 p	isobutyl alcohol	0.287	0.366	-27.5#	82	0.03	4.58
35 p	2,2-dichloropropane	0.640	0.610	4.7	60	0.03	5.55
36 p	cis-1,2-dichloroethene	0.521	0.530	-1.7	67	0.03	5.53
37 p	ethyl acetate	1.425	1.832	-28.6#	82	0.03	4.58
38 p	bromochloromethane	0.251	0.262	-4.4	68	0.03	5.95
39 p	chloroform	0.942	1.140	-21.0#	81	0.03	6.17
40 S	dibromofluoromethane (s)	0.531	0.603	-13.6	75	0.02	6.44
		Amount	Calc.	%Drift			
41 p	Tetrahydrofuran	50.000	57.087	-14.2	73	0.03	5.96
		AvgRF	CCRF	%Dev			
42 p	1,1,1-trichloroethane	0.825	1.066	-29.2#	79	0.03	6.42
43 I	1,4-difluorobenzene	1.000	1.000	0.0	71	0.02	7.74
44 p	Cyclohexane	0.690	0.779	-12.9	75	0.03	6.53
		Amount	Calc.	%Drift			
45 p	carbon tetrachloride	50.000	58.178	-16.4	83	0.03	6.67
		AvgRF	CCRF	%Dev			
46 p	1,1-dichloropropene	0.442	0.520	-17.6	77	0.02	6.69
		Amount	Calc.	%Drift			
47 p	benzene	50.000	49.410	1.2	71	0.02	7.00
		AvgRF	CCRF	%Dev			
48 p	1,2-dichloroethane	0.506	0.664	-31.2#	92	0.02	7.13
49 p	tert-amyl methyl ether	0.547	0.510	6.8	67	0.02	7.29
50 p	heptane	0.355	0.498	-40.3#	87	0.02	7.56
51 p	trichloroethene	0.361	0.392	-8.6	81	0.02	8.04
52 p	1,2-dichloropropane	0.331	0.387	-16.9	83	0.02	8.39
53 p	dibromomethane	0.174	0.205	-17.8	84	0.02	8.49
54 p	bromodichloromethane	0.364	0.481	-32.1#	92	0.02	8.74
55 p	Methylcyclohexane	0.441	0.470	-6.6	71	0.02	8.34
56 p	2-chloroethyl vinyl ether	0.091	0.093	-2.2	74	0.02	9.12
		Amount	Calc.	%Drift			
57 p	methyl methacrylate	50.000	43.095	13.8	72	0.02	8.52
		AvgRF	CCRF	%Dev			
58 p	1,4-dioxane			NA			
		Amount	Calc.	%Drift			

Continuing Calibration Summary

Page 3 of 4

Job Number: MC32489

Sample: MSV1231-CC1226

Account: WSPVAR WSP Environmental & Energy

Lab FileID: V33605.D

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

59	p	cis-1,3-dichloropropene	50.000	53.828	-7.7	77	0.02	9.27
			AvgRF	CCRF	%Dev			
60	S	toluene-d8 (s)	0.990	1.067	-7.8	80	0.02	9.56
61	p	4-methyl-2-pentanone	0.185	0.246	-33.0#	90	0.01	9.45
62	p	toluene	0.661	0.714	-8.0	81	0.02	9.63
			Amount	Calc.	%Drift			
63	p	trans-1,3-dichloropropene	50.000	51.419	-2.8	79	0.01	9.92
			AvgRF	CCRF	%Dev			
64	p	1,1,2-trichloroethane	0.157	0.180	-14.6	82	0.01	10.12
			Amount	Calc.	%Drift			
65	p	ethyl methacrylate	50.000	50.201	-0.4	74	0.02	10.00
			AvgRF	CCRF	%Dev			
66	I	chlorobenzene-d5	1.000	1.000	0.0	85	0.01	11.08
67	p	tetrachloroethene	0.870	0.784	9.9	78	0.02	10.19
68	p	1,3-dichloropropane	0.780	0.769	1.4	86	0.01	10.29
			Amount	Calc.	%Drift			
69	p	dibromochloromethane	50.000	50.682	-1.4	93	0.01	10.51
			AvgRF	CCRF	%Dev			
70	p	1,2-dibromoethane	0.487	0.475	2.5	81	0.01	10.62
71	p	2-hexanone	0.436	0.530	-21.6#	90	0.01	10.36
72	P	chlorobenzene	1.929	1.859	3.6	85	0.01	11.11
			Amount	Calc.	%Drift			
73	p	1,1,1,2-tetrachloroethane	50.000	47.335	5.3	92	0.01	11.21
			AvgRF	CCRF	%Dev			
74	p	ethylbenzene	3.506	3.595	-2.5	94	0.01	11.22
75	p	m,p-xylene	1.347	1.355	-0.6	92	0.01	11.35
76	p	o-xylene	1.350	1.388	-2.8	92	0.01	11.72
77	p	styrene	1.981	2.154	-8.7	95	0.01	11.74
			Amount	Calc.	%Drift			
78	P	bromoform	50.000	48.730	2.5	98	0.01	11.91
79	p	trans-1,4-dichloro-2-bute	50.000	53.331	-6.7	107	0.01	12.13
			AvgRF	CCRF	%Dev			
80	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	109	0.01	13.30
81	p	isopropylbenzene	3.033	2.914	3.9	98	0.01	12.07
82	S	bromofluorobenzene (s)	0.865	0.793	8.3	98	0.01	12.23
83	p	bromobenzene	0.798	0.675	15.4	92	0.01	12.36
84	P	1,1,2,2-tetrachloroethane	0.486	0.451	7.2	97	0.01	12.36
85	p	1,2,3-trichloropropane	0.530	0.450	15.1	84	0.02	12.41
86	p	n-propylbenzene	3.434	3.440	-0.2	104	0.01	12.46
87	p	2-chlorotoluene	2.216	2.166	2.3	106	0.01	12.53
88	p	4-chlorotoluene	2.527	2.618	-3.6	112	0.01	12.65
89	p	1,3,5-trimethylbenzene	2.787	2.831	-1.6	107	0.01	12.62
90	p	tert-butylbenzene	1.420	1.607	-13.2	116	0.01	12.91
91	p	1,2,4-trimethylbenzene	2.804	2.944	-5.0	111	0.01	12.96
92	p	sec-butylbenzene	3.084	3.355	-8.8	111	0.01	13.11
93	p	1,3-dichlorobenzene	1.591	1.494	6.1	106	0.01	13.22
94	p	p-isopropyltoluene	2.826	3.134	-10.9	114	0.01	13.25

Continuing Calibration Summary

Page 4 of 4

Job Number: MC32489

Sample: MSV1231-CC1226

Account: WSPVAR WSP Environmental & Energy

Lab FileID: V33605.D

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

95 p	1,4-dichlorobenzene	1.608	1.590	1.1	112	0.01	13.32
96 p	1,2-dichlorobenzene	1.510	1.514	-0.3	112	0.01	13.63
97 p	n-butylbenzene	2.344	2.723	-16.2	120	0.01	13.62
----- Amount Calc. %Drift -----							
98 p	1,2-dibromo-3-chloropropa	50.000	49.008	2.0	123	0.01	14.33
----- AvgRF CCRF %Dev -----							
99 p	1,3,5-trichlorobenzene	1.128	1.036	8.2	103	0.01	14.50
100 p	1,2,4-trichlorobenzene	0.893	0.806	9.7	98	0.01	15.06
101 p	hexachlorobutadiene	0.359	0.332	7.5	105	0.01	15.18
102 p	naphthalene	1.260	1.222	3.0	100	0.01	15.29
103 p	1,2,3-trichlorobenzene	0.723	0.648	10.4	97	0.01	15.48
----- Amount Calc. %Drift -----							
104 p	2-Methylnaphthalene	25.000	20.024	19.9	74	0.01	16.29
105 p	1-Methylnaphthalene	25.000	19.354	22.6#	71	0.01	16.46

(#) = Out of Range

v33448.D v140801w.m

SPCC's out = 1 CCC's out = 0

Thu Aug 07 13:05:47 2014

6.7.3

6

GC/MS Volatiles

Raw Data

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140807\
 Data File : v33621.D
 Acq On : 7 Aug 2014 3:40 pm
 Operator : amym
 Sample : mc32489-1
 Misc : MS32442,MSV1231,,,,5,1
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 07 15:59:26 2014
 Quant Method : C:\msdchem\1\METHODS\v140801w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Aug 01 17:44:41 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.518	65	35649	500.00	ug/L	0.02
4) pentafluorobenzene	6.566	168	199700	50.00	ug/L	0.03
43) 1,4-difluorobenzene	7.747	114	252777	50.00	ug/L	0.02
66) chlorobenzene-d5	11.084	82	105796	50.00	ug/L	0.01
80) 1,4-dichlorobenzene-d4	13.296	152	97480	50.00	ug/L	0.01
System Monitoring Compounds						
40) dibromofluoromethane (s)	6.444	113	119749	56.46	ug/L	0.03
Spiked Amount 50.000	Range 70 - 130		Recovery =	112.92%		
60) toluene-d8 (s)	9.558	98	254426	50.82	ug/L	0.02
Spiked Amount 50.000	Range 70 - 130		Recovery =	101.64%		
82) bromofluorobenzene (s)	12.233	95	93258	55.32	ug/L	0.01
Spiked Amount 50.000	Range 70 - 130		Recovery =	110.64%		
Target Compounds						
7) vinyl chloride	1.720	62	56235	10.13	ug/L	99
22) trans-1,2-dichloroethene	3.834	96	2239	0.97	ug/L	95
36) cis-1,2-dichloroethene	5.536	96	216491	104.08	ug/L	91
51) trichloroethene	8.040	95	9613	5.26	ug/L	87

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

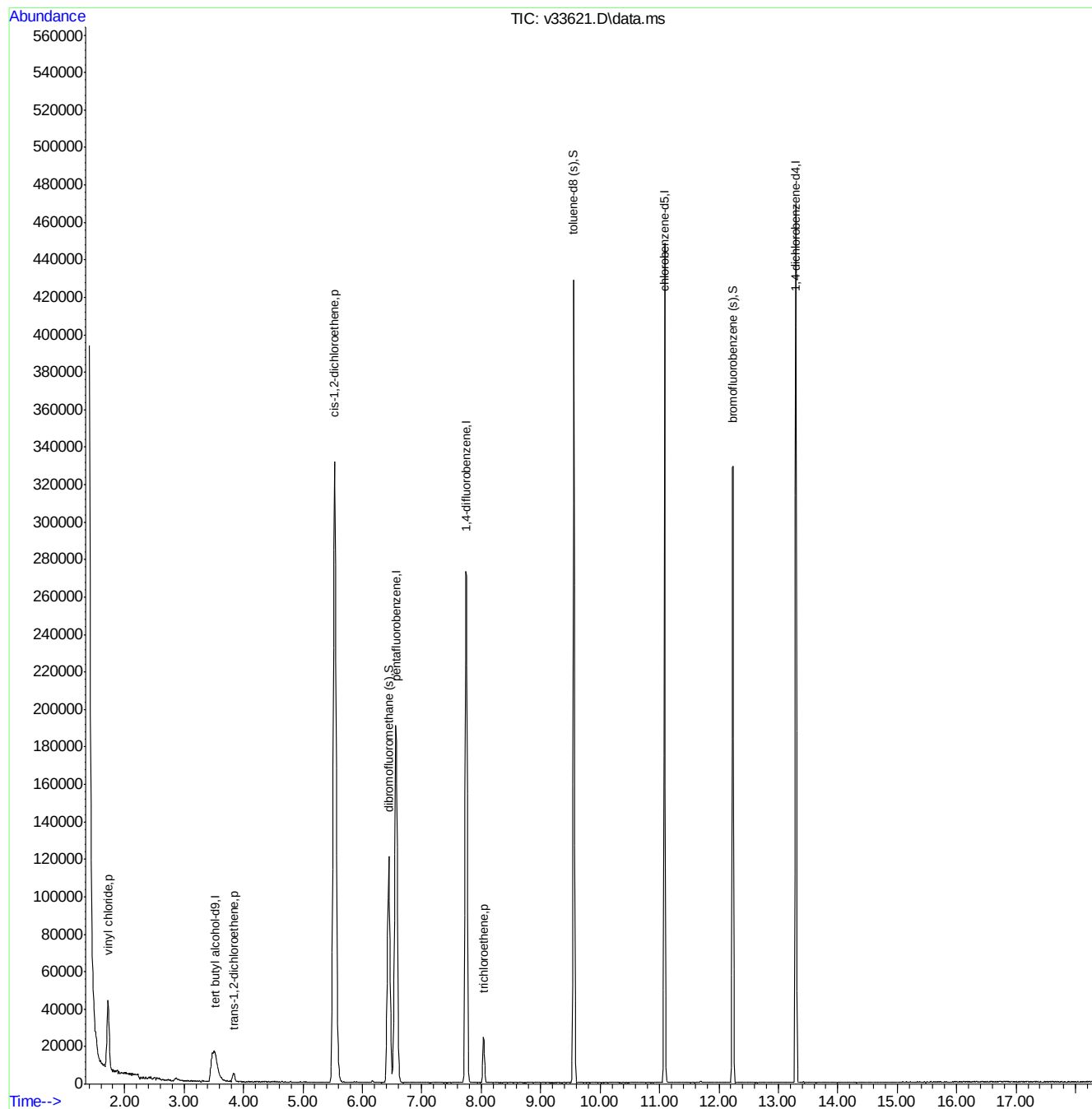
7.1.1

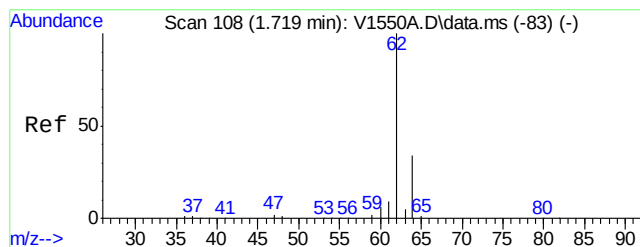
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140807\
Data File : v33621.D
Acq On : 7 Aug 2014 3:40 pm
Operator : amym
Sample : mc32489-1
Misc : MS32442,MSV1231,,,,5,1
ALS Vial : 18 Sample Multiplier: 1

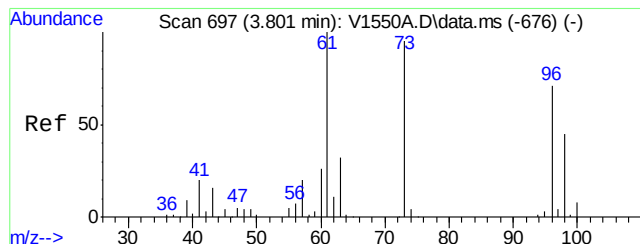
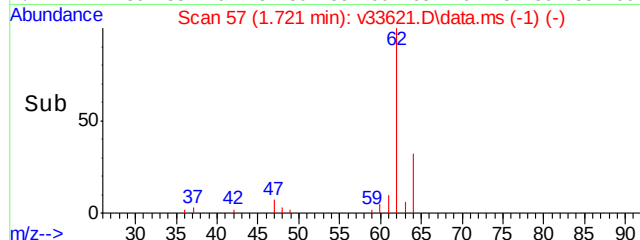
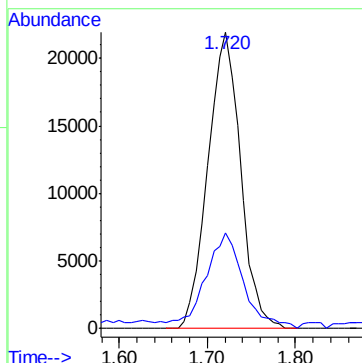
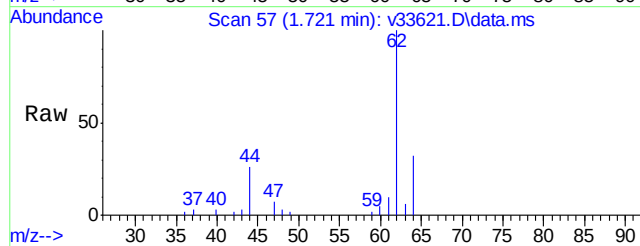
Quant Time: Aug 07 15:59:26 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 17:44:41 2014
Response via : Initial Calibration





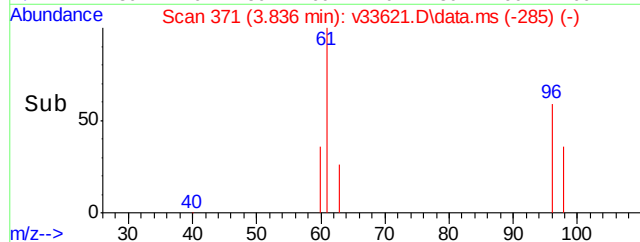
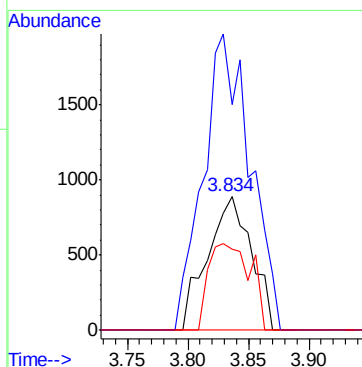
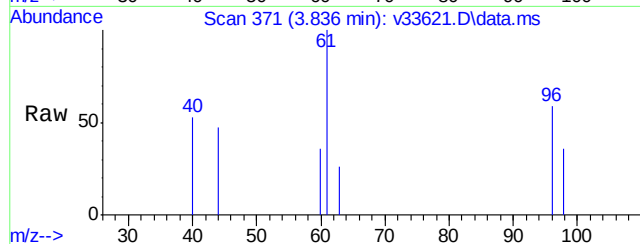
#7
vinyl chloride
Concen: 10.13 ug/L
RT: 1.720 min Scan# 57
Delta R.T. 0.010 min
Lab File: v33621.D
Acq: 7 Aug 2014 3:40 pm

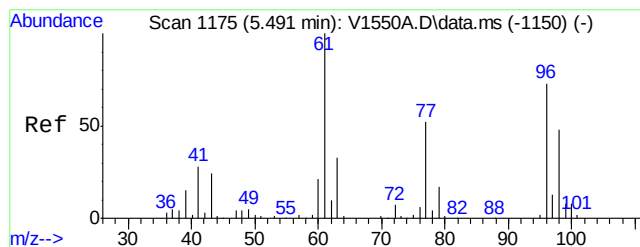
Tgt Ion	Ratio	Lower	Upper
62	100		
64	32.4	1.7	61.7



#22
trans-1,2-dichloroethene
Concen: 0.97 ug/L
RT: 3.834 min Scan# 371
Delta R.T. 0.025 min
Lab File: v33621.D
Acq: 7 Aug 2014 3:40 pm

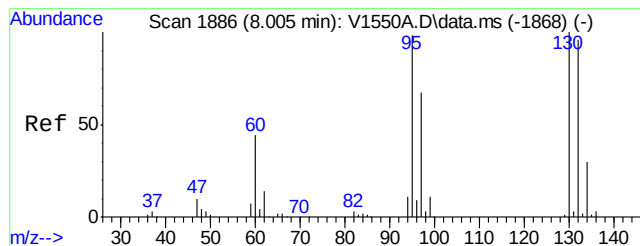
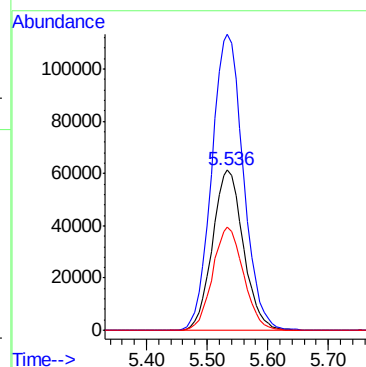
Tgt Ion	Ratio	Lower	Upper
96	100		
61	168.7	145.0	205.0
98	60.7	35.6	95.6





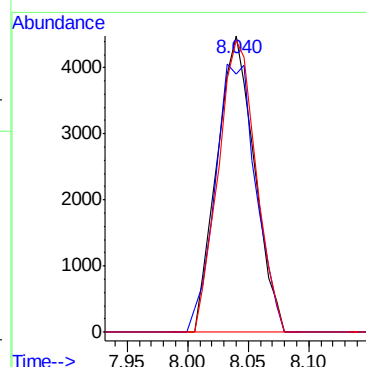
#36
cis-1,2-dichloroethene
Concen: 104.08 ug/L
RT: 5.536 min Scan# 623
Delta R.T. 0.032 min
Lab File: v33621.D
Acq: 7 Aug 2014 3:40 pm

Tgt Ion	Ratio	Lower	Upper
96	100		
61	184.9	138.7	198.7
98	64.7	35.3	95.3



#51
trichloroethene
Concen: 5.26 ug/L
RT: 8.040 min Scan# 995
Delta R.T. 0.022 min
Lab File: v33621.D
Acq: 7 Aug 2014 3:40 pm

Tgt Ion	Ratio	Lower	Upper
95	100		
130	87.0	78.4	138.4
132	98.3	72.8	132.8



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140807\
Data File : v33609.D
Acq On : 7 Aug 2014 10:26 am
Operator : amym
Sample : mb
Misc : MS32448,MSV1231,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 07 13:08:46 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 17:44:41 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) tert butyl alcohol-d9	3.518	65	40283	500.00	ug/L	0.02
4) pentafluorobenzene	6.566	168	216082	50.00	ug/L	0.03
43) 1,4-difluorobenzene	7.747	114	277853	50.00	ug/L	0.02
66) chlorobenzene-d5	11.084	82	120296	50.00	ug/L	0.01
80) 1,4-dichlorobenzene-d4	13.295	152	112589	50.00	ug/L	0.01
System Monitoring Compounds						
40) dibromofluoromethane (s)	6.445	113	129107	56.26	ug/L	0.03
Spiked Amount 50.000	Range 70 - 130		Recovery =	112.52%		
60) toluene-d8 (s)	9.557	98	282542	51.34	ug/L	0.02
Spiked Amount 50.000	Range 70 - 130		Recovery =	102.68%		
82) bromofluorobenzene (s)	12.232	95	108258	55.60	ug/L	0.01
Spiked Amount 50.000	Range 70 - 130		Recovery =	111.20%		

Target Compounds	Qvalue
-----	-----

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

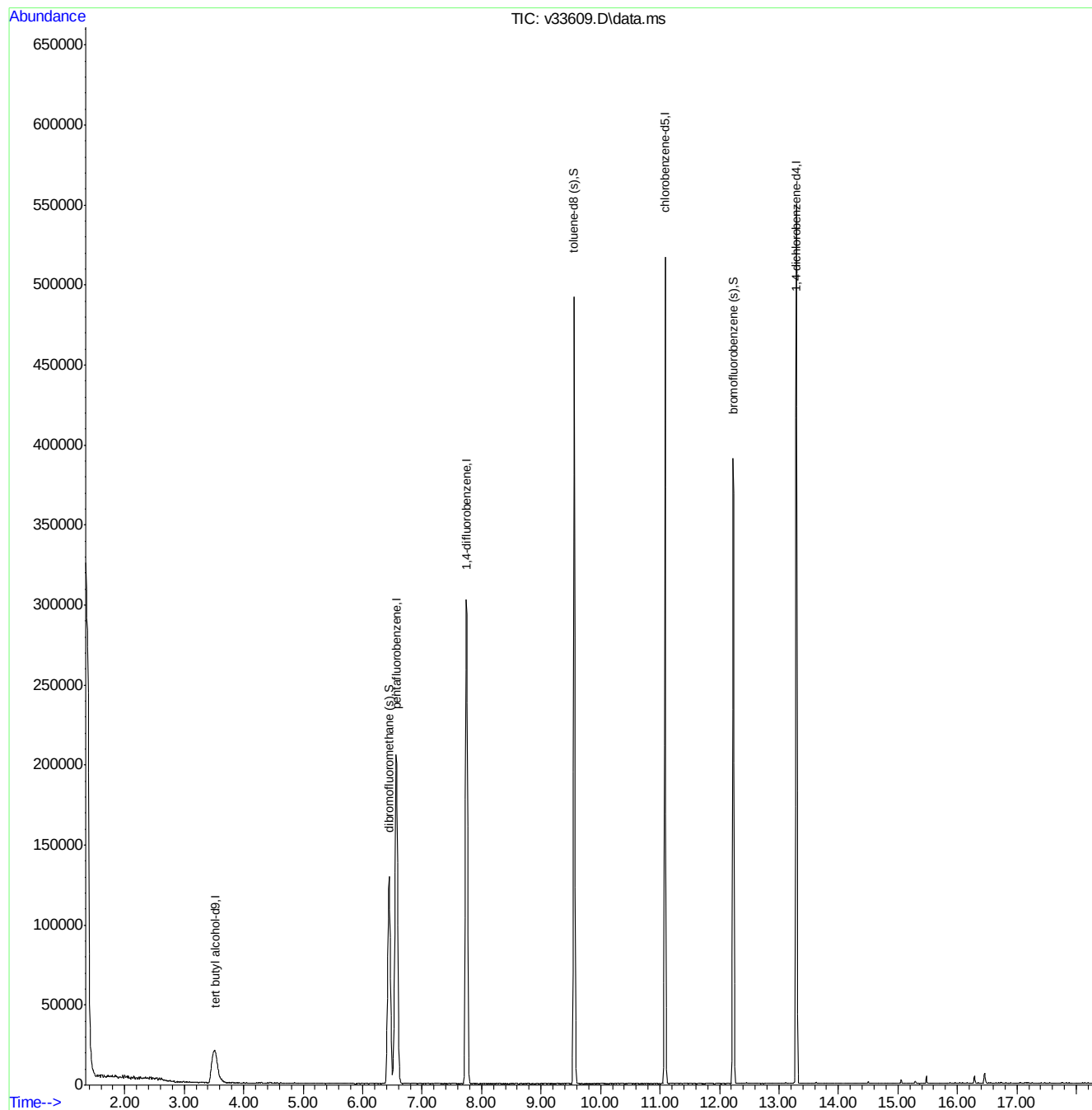
7.2.1

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140807\
Data File : v33609.D
Acq On : 7 Aug 2014 10:26 am
Operator : amym
Sample : mb
Misc : MS32448,MSV1231,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 07 13:08:46 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 17:44:41 2014
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140807\
 Data File : v33606.D
 Acq On : 7 Aug 2014 9:08 am
 Operator : amym
 Sample : bs
 Misc : MS32448,MSV1231,,,,5,1
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 07 13:06:27 2014
 Quant Method : C:\msdchem\1\METHODS\v140801w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Aug 01 17:44:41 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.511	65	19064	500.00	ug/L	0.02
4) pentafluorobenzene	6.565	168	136119	50.00	ug/L	0.03
43) 1,4-difluorobenzene	7.747	114	183002	50.00	ug/L	0.02
66) chlorobenzene-d5	11.084	82	85129	50.00	ug/L	0.01
80) 1,4-dichlorobenzene-d4	13.295	152	108659	50.00	ug/L	0.01
System Monitoring Compounds						
40) dibromofluoromethane (s)	6.444	113	82429	57.02	ug/L	0.03
Spiked Amount 50.000	Range 70 - 130		Recovery =	114.04%		
60) toluene-d8 (s)	9.558	98	197059	54.36	ug/L	0.02
Spiked Amount 50.000	Range 70 - 130		Recovery =	108.72%		
82) bromofluorobenzene (s)	12.232	95	87574	46.61	ug/L	0.01
Spiked Amount 50.000	Range 70 - 130		Recovery =	93.22%		
Target Compounds						
					Qvalue	
2) tertiary butyl alcohol	3.623	59	13744	428.10	ug/L	83
3) Ethanol	2.495	45	32820	13719.24	ug/L #	100
5) dichlorodifluoromethane	1.499	85	227953m	37.38	ug/L	
6) chloromethane	1.613	50	196177	57.57	ug/L	97
7) vinyl chloride	1.726	62	179623	52.51	ug/L	98
8) bromomethane	2.014	96	113808	54.10	ug/L	96
9) chloroethane	2.108	64	79249	67.74	ug/L	100
10) ethyl ether	2.605	59	72539	63.10	ug/L	92
11) acetonitrile	3.296	41	207403	74.92	ug/L #	21
12) trichlorofluoromethane	2.346	101	303958	61.58	ug/L	98
13) freon-113	2.915	101	133997	51.89	ug/L	98
14) acrolein	2.756	56	31096	205.81	ug/L	97
15) 1,1-dichloroethene	2.868	96	96429	59.84	ug/L #	71
16) acetone	2.907	58	10485	45.06	ug/L	96
17) Methyl Acetate	3.283	43	59305	78.64	ug/L	97
18) methylene chloride	3.466	84	96724	53.93	ug/L #	84
19) methyl tert butyl ether	3.842	73	157516	50.18	ug/L	95
20) acrylonitrile	3.784	53	28009	69.72	ug/L	95
21) allyl chloride	3.296	41	207403	74.92	ug/L	90
22) trans-1,2-dichloroethene	3.838	96	91591	58.31	ug/L #	80
23) iodomethane	3.035	142	232088	52.94	ug/L	84
24) carbon disulfide	3.119	76	336094	71.87	ug/L	99
25) propionitrile	5.646	54	6918	65.86	ug/L	100
26) vinyl acetate	4.591	43	261124	67.28	ug/L	94
27) chloroprene	4.626	53	210576	99.18	ug/L	84
28) di-isopropyl ether	4.612	45	371851	72.92	ug/L	97
29) methacrylonitrile	5.922	41	37680	72.66	ug/L	93
30) 2-butanone	5.536	72	4964	48.12	ug/L #	88
31) Hexane	4.257	41	110050	82.44	ug/L #	89
32) 1,1-dichloroethane	4.515	63	194815	66.37	ug/L	99
33) tert-butyl ethyl ether	5.278	59	197839	59.03	ug/L	96
34) isobutyl alcohol	4.591	43	261124	334.26	ug/L	83
35) 2,2-dichloropropane	5.553	77	96740	55.52	ug/L	95
36) cis-1,2-dichloroethene	5.536	96	80747	56.95	ug/L #	81

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140807\
 Data File : v33606.D
 Acq On : 7 Aug 2014 9:08 am
 Operator : amym
 Sample : bs
 Misc : MS32448,MSV1231,,,,5,1
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 07 13:06:27 2014
 Quant Method : C:\msdchem\1\METHODS\v140801w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Aug 01 17:44:41 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) ethyl acetate	4.591	43	261116m	67.30	ug/L	
38) bromochloromethane	5.956	128	38841	56.77	ug/L	# 82
39) chloroform	6.174	83	164565	64.14	ug/L	97
41) Tetrahydrofuran	5.964	42	12426	65.88	ug/L	91
42) 1,1,1-trichloroethane	6.420	97	157476	70.15	ug/L	96
44) Cyclohexane	6.529	56	174089	68.91	ug/L	90
45) carbon tetrachloride	6.675	117	161110	64.60	ug/L	98
46) 1,1-dichloropropene	6.689	75	102146	63.08	ug/L	92
47) benzene	7.008	78	243377	56.35	ug/L	100
48) 1,2-dichloroethane	7.132	62	128921	69.55	ug/L	96
49) tert-amyl methyl ether	7.296	73	112138	55.96	ug/L	91
50) heptane	7.565	43	101781	78.23	ug/L	95
51) trichloroethene	8.039	95	77301	58.44	ug/L	92
52) 1,2-dichloropropane	8.387	63	76320	63.07	ug/L	99
53) dibromomethane	8.491	93	40013	62.81	ug/L	98
54) bromodichloromethane	8.742	83	100608	75.45	ug/L	96
55) Methylcyclohexane	8.343	83	98231	60.80	ug/L	85
56) 2-chloroethyl vinyl ether	9.117	63	19423	58.09	ug/L	95
57) methyl methacrylate	8.521	69	21033	50.90	ug/L	89
59) cis-1,3-dichloropropene	9.270	75	76361	60.34	ug/L	94
61) 4-methyl-2-pentanone	9.455	43	46361	68.49	ug/L	96
62) toluene	9.633	92	145504	60.17	ug/L	99
63) trans-1,3-dichloropropene	9.921	75	58003	60.51	ug/L	91
64) 1,1,2-trichloroethane	10.125	83	34154	59.39	ug/L	98
65) ethyl methacrylate	10.002	69	41124	53.37	ug/L	94
67) tetrachloroethene	10.186	166	71903	48.54	ug/L	96
68) 1,3-dichloropropane	10.288	76	68096	51.25	ug/L	98
69) dibromochloromethane	10.508	129	58397	53.03	ug/L	97
70) 1,2-dibromoethane	10.617	107	42628	51.41	ug/L	99
71) 2-hexanone	10.362	43	37369	50.30	ug/L	98
72) chlorobenzene	11.114	112	173854	52.93	ug/L	97
73) 1,1,1,2-tetrachloroethane	11.213	131	76924	48.20	ug/L	97
74) ethylbenzene	11.218	91	329733	55.23	ug/L	97
75) m,p-xylene	11.349	106	246941	107.69	ug/L	88
76) o-xylene	11.716	106	124796	54.30	ug/L	87
77) styrene	11.736	104	196897	58.38	ug/L	94
78) bromoform	11.911	173	29261	50.26	ug/L	99
79) trans-1,4-dichloro-2-b...	12.127	53	15979	50.51	ug/L	93
81) isopropylbenzene	12.068	105	361919	54.90	ug/L	99
83) bromobenzene	12.358	156	81788	47.18	ug/L	95
84) 1,1,2,2-tetrachloroethane	12.363	83	51541	48.83	ug/L	99
85) 1,2,3-trichloropropane	12.412	75	50953	44.26	ug/L	99
86) n-propylbenzene	12.456	91	423882	56.81	ug/L	97
87) 2-chlorotoluene	12.535	91	263169	54.64	ug/L	96
88) 4-chlorotoluene	12.646	91	314998	57.35	ug/L	95
89) 1,3,5-trimethylbenzene	12.625	105	333822	55.12	ug/L	95
90) tert-butylbenzene	12.911	91	190627	61.78	ug/L	89
91) 1,2,4-trimethylbenzene	12.965	105	359998	59.07	ug/L	96
92) sec-butylbenzene	13.114	105	398716	59.49	ug/L	100
93) 1,3-dichlorobenzene	13.222	146	180141	52.09	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140807\
Data File : v33606.D
Acq On : 7 Aug 2014 9:08 am
Operator : amym
Sample : bs
Misc : MS32448,MSV1231,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 07 13:06:27 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 17:44:41 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) p-isopropyltoluene	13.255	119	373968	60.90	ug/L	96
95) 1,4-dichlorobenzene	13.317	146	190826	54.60	ug/L	98
96) 1,2-dichlorobenzene	13.634	146	177606	54.12	ug/L	99
97) n-butylbenzene	13.620	91	330853	64.95	ug/L	98
98) 1,2-dibromo-3-chloropr...	14.335	75	7348	47.47	ug/L	97
99) 1,3,5-trichlorobenzene	14.500	180	123896	50.54	ug/L	99
100) 1,2,4-trichlorobenzene	15.055	180	94526	48.73	ug/L	99
101) hexachlorobutadiene	15.177	225	38827	49.82	ug/L	95
102) naphthalene	15.289	128	144344	52.72	ug/L	100
103) 1,2,3-trichlorobenzene	15.478	180	77087	49.05	ug/L	99
104) 2-Methylnaphthalene	16.288	142	46715	47.06	ug/L	100
105) 1-Methylnaphthalene	16.458	142	36772	47.16	ug/L	100

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

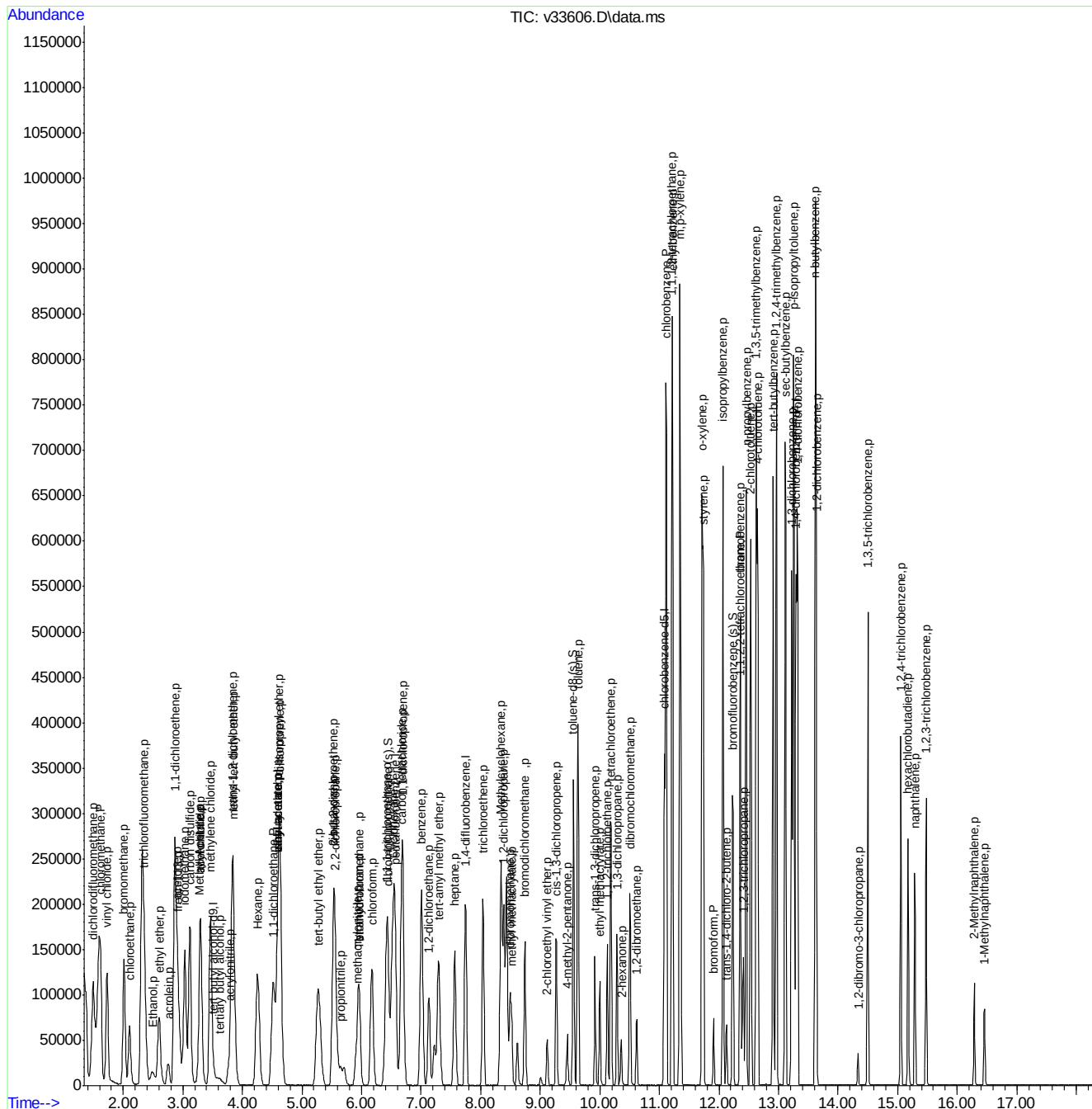
Quantitation Report (QT Reviewed)

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Data Path   : C:\msdchem\1\DATA\V140807\
Data File   : v33606.D
Acq On      : 7 Aug 2014 9:08 am
Operator    : amym
Sample      : bs
Misc        : MS32448,MSV1231,,,,,5,1
ALS Vial    : 3 Sample Multiplier: 1

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Quant Time: Aug 07 13:06:27 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 17:44:41 2014
Response via : Initial Calibration



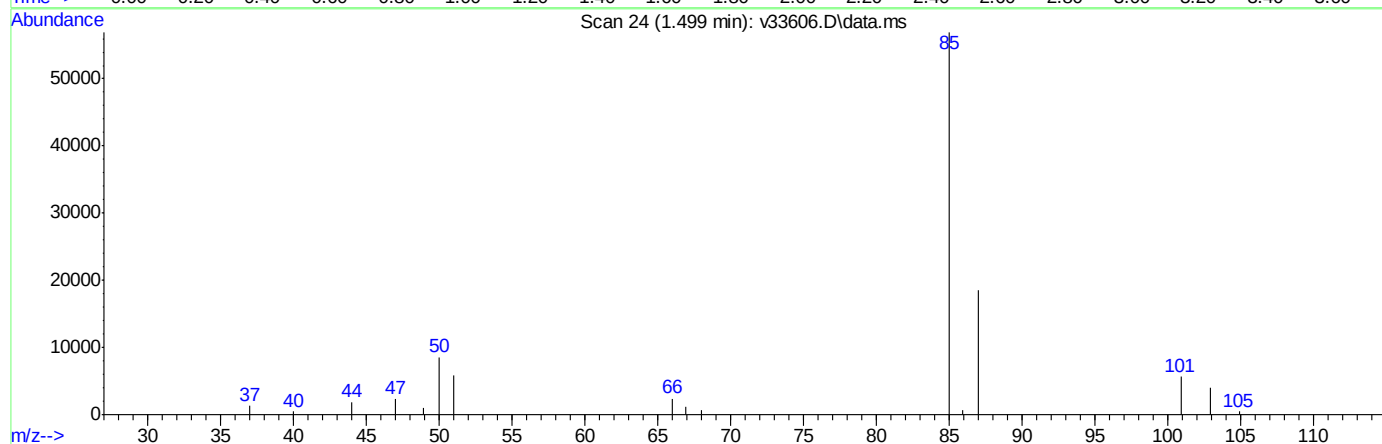
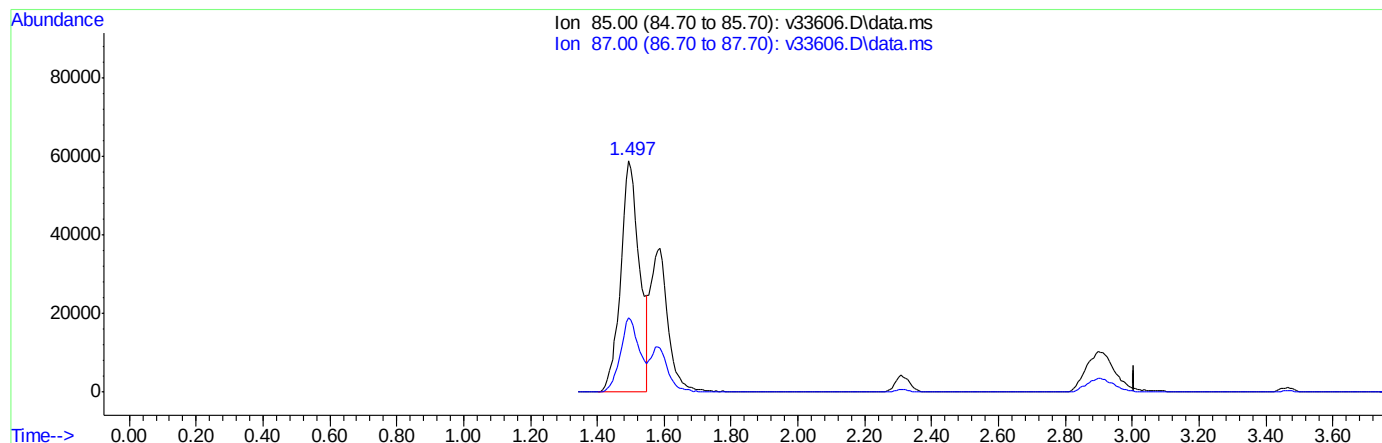
v140801w.m Thu Aug 07 13:07:11 2014

Page: 4

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140807\
Data File : v33606.D
Acq On : 7 Aug 2014 9:08 am
Operator : amym
Sample : bs
Misc : MS32448,MSV1231,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 07 12:32:54 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 17:44:41 2014
Response via : Initial Calibration



TIC: v33606.D\data.ms

(5) dichlorodifluoromethane (p)

1.499min (+0.014) 37.38ug/L m

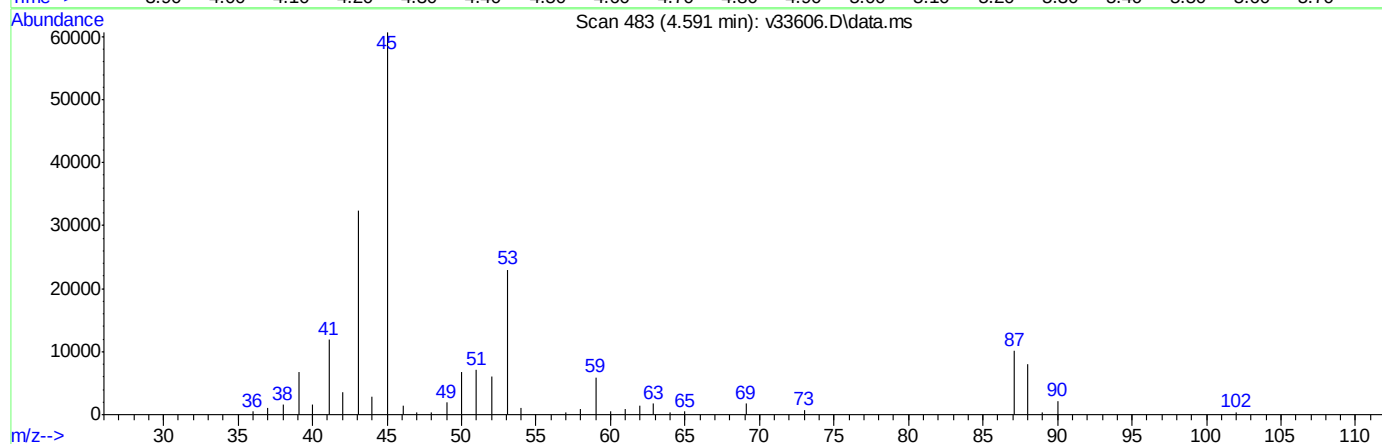
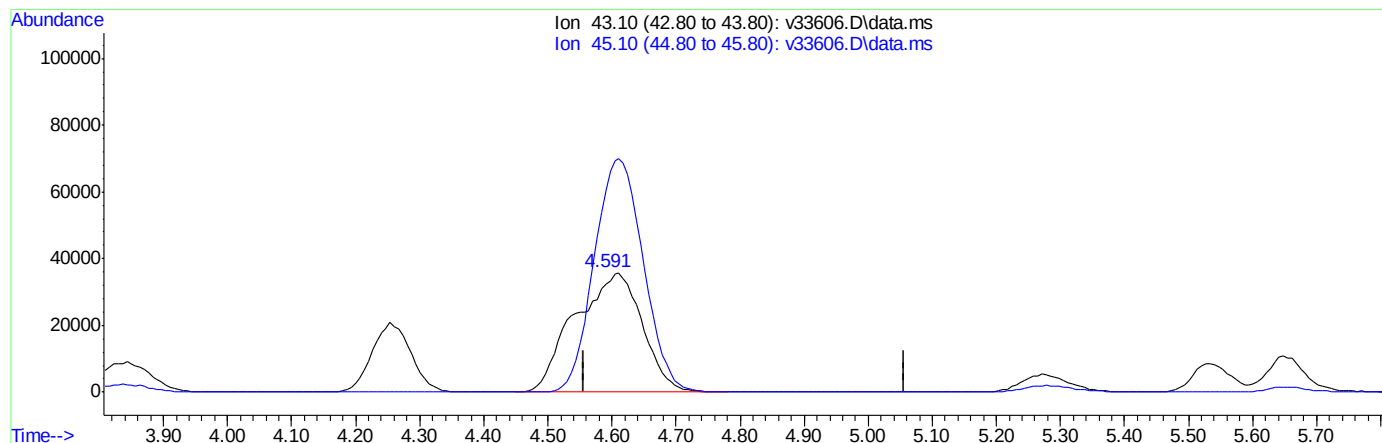
response 227953

Ion	Exp%	Act%
85.00	100	100
87.00	33.00	32.51
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140807\
Data File : v33606.D
Acq On : 7 Aug 2014 9:08 am
Operator : amym
Sample : bs
Misc : MS32448,MSV1231,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 07 12:32:54 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 17:44:41 2014
Response via : Initial Calibration



(37) ethyl acetate (p)

4.591min (+0.034) 67.30ug/L m

response 261116

Ion	Exp%	Act%
43.10	100	100
45.10	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140807\
 Data File : v33607.D
 Acq On : 7 Aug 2014 9:34 am
 Operator : amym
 Sample : bsd
 Misc : MS32448,MSV1231,,,,5,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 13:07:46 2014
 Quant Method : C:\msdchem\1\METHODS\v140801w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Aug 01 17:44:41 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.512	65	19750	500.00	ug/L	0.02
4) pentafluorobenzene	6.563	168	127252	50.00	ug/L	0.03
43) 1,4-difluorobenzene	7.746	114	169586	50.00	ug/L	0.02
66) chlorobenzene-d5	11.083	82	78371	50.00	ug/L	0.01
80) 1,4-dichlorobenzene-d4	13.295	152	101263	50.00	ug/L	0.01
System Monitoring Compounds						
40) dibromofluoromethane (s)	6.442	113	75348	55.75	ug/L	0.03
Spiked Amount 50.000	Range 70 - 130		Recovery =	111.50%		
60) toluene-d8 (s)	9.557	98	183688	54.68	ug/L	0.02
Spiked Amount 50.000	Range 70 - 130		Recovery =	109.36%		
82) bromofluorobenzene (s)	12.232	95	81158	46.35	ug/L	0.01
Spiked Amount 50.000	Range 70 - 130		Recovery =	92.70%		
Target Compounds						
					Qvalue	
2) tertiary butyl alcohol	3.623	59	14457	434.66	ug/L	86
3) Ethanol	2.491	45	32429	13060.82	ug/L #	100
5) dichlorodifluoromethane	1.492	85	234827m	41.78	ug/L	
6) chloromethane	1.609	50	190227	60.21	ug/L	100
7) vinyl chloride	1.722	62	175747	55.46	ug/L	97
8) bromomethane	2.010	96	111719	57.39	ug/L	99
9) chloroethane	2.103	64	76750	70.86	ug/L	100
10) ethyl ether	2.601	59	66621	61.72	ug/L	94
11) acetonitrile	3.291	41	189340	73.16	ug/L #	21
12) trichlorofluoromethane	2.342	101	285783	62.01	ug/L	99
13) freon-113	2.912	101	129443	53.78	ug/L	97
14) acrolein	2.750	56	30376	215.93	ug/L	92
15) 1,1-dichloroethene	2.862	96	91757	60.91	ug/L #	73
16) acetone	2.903	58	9542	43.79	ug/L #	62
17) Methyl Acetate	3.278	43	56005	79.44	ug/L	98
18) methylene chloride	3.461	84	89797	53.56	ug/L	85
19) methyl tert butyl ether	3.840	73	152628	52.01	ug/L	98
20) acrylonitrile	3.779	53	26531	70.64	ug/L	99
21) allyl chloride	3.291	41	189340	73.16	ug/L	94
22) trans-1,2-dichloroethene	3.833	96	83973	57.19	ug/L #	83
23) iodomethane	3.029	142	217840	53.15	ug/L	86
24) carbon disulfide	3.114	76	319321	73.04	ug/L	100
25) propionitrile	5.644	54	6379	65.06	ug/L	100
26) vinyl acetate	4.588	43	243910	67.22	ug/L	94
27) chloroprene	4.622	53	188951	95.20	ug/L	86
28) di-isopropyl ether	4.610	45	351411	73.71	ug/L	98
29) methacrylonitrile	5.920	41	35238	72.69	ug/L	93
30) 2-butanone	5.534	72	4415	45.94	ug/L	91
31) Hexane	4.254	41	99893	80.05	ug/L	88
32) 1,1-dichloroethane	4.511	63	176440	64.30	ug/L	99
33) tert-butyl ethyl ether	5.275	59	187721	59.92	ug/L	96
34) isobutyl alcohol	4.588	43	243910	333.98	ug/L	83
35) 2,2-dichloropropane	5.551	77	90338	55.46	ug/L	93
36) cis-1,2-dichloroethene	5.532	96	73502	55.45	ug/L #	79

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140807\
 Data File : v33607.D
 Acq On : 7 Aug 2014 9:34 am
 Operator : amym
 Sample : bsd
 Misc : MS32448,MSV1231,,,,5,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 13:07:46 2014
 Quant Method : C:\msdchem\1\METHODS\v140801w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Aug 01 17:44:41 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) ethyl acetate	4.591	43	243915m	67.25	ug/L	
38) bromochloromethane	5.953	128	35534	55.56	ug/L	# 79
39) chloroform	6.172	83	147839	61.64	ug/L	99
41) Tetrahydrofuran	5.964	42	11670	66.16	ug/L	100
42) 1,1,1-trichloroethane	6.419	97	145280	69.23	ug/L	96
44) Cyclohexane	6.527	56	159667	68.21	ug/L	87
45) carbon tetrachloride	6.673	117	147631	63.90	ug/L	99
46) 1,1-dichloropropene	6.686	75	91663	61.09	ug/L	93
47) benzene	7.006	78	219959	54.95	ug/L	99
48) 1,2-dichloroethane	7.130	62	116438	67.79	ug/L	98
49) tert-amyl methyl ether	7.294	73	105113	56.61	ug/L	93
50) heptane	7.564	43	93028	77.16	ug/L	96
51) trichloroethene	8.038	95	68796	56.13	ug/L	92
52) 1,2-dichloropropane	8.387	63	69867	62.30	ug/L	98
53) dibromomethane	8.490	93	36876	62.47	ug/L	98
54) bromodichloromethane	8.741	83	90704	73.40	ug/L	98
55) Methylcyclohexane	8.342	83	91491	61.11	ug/L	# 85
56) 2-chloroethyl vinyl ether	9.117	63	18172	58.64	ug/L	95
57) methyl methacrylate	8.520	69	19739	51.50	ug/L	92
59) cis-1,3-dichloropropene	9.269	75	69831	59.62	ug/L	95
61) 4-methyl-2-pentanone	9.454	43	44466	70.88	ug/L	97
62) toluene	9.633	92	131929	58.88	ug/L	98
63) trans-1,3-dichloropropene	9.921	75	52700	59.42	ug/L	95
64) 1,1,2-trichloroethane	10.125	83	31557	59.22	ug/L	98
65) ethyl methacrylate	10.001	69	39634	55.31	ug/L	96
67) tetrachloroethene	10.186	166	65287	47.88	ug/L	94
68) 1,3-dichloropropane	10.288	76	62346	50.97	ug/L	100
69) dibromochloromethane	10.508	129	53740	53.01	ug/L	98
70) 1,2-dibromoethane	10.617	107	39953	52.33	ug/L	96
71) 2-hexanone	10.361	43	33752	49.35	ug/L	97
72) chlorobenzene	11.113	112	156788	51.85	ug/L	96
73) 1,1,1,2-tetrachloroethane	11.213	131	69770	47.51	ug/L	97
74) ethylbenzene	11.218	91	298547	54.32	ug/L	98
75) m,p-xylene	11.349	106	225911	107.01	ug/L	87
76) o-xylene	11.716	106	115022	54.37	ug/L	91
77) styrene	11.736	104	182085	58.64	ug/L	95
78) bromoform	11.910	173	27441	51.09	ug/L	99
79) trans-1,4-dichloro-2-b...	12.127	53	14745	50.62	ug/L	92
81) isopropylbenzene	12.067	105	330899	53.86	ug/L	99
83) bromobenzene	12.358	156	74880	46.35	ug/L	96
84) 1,1,2,2-tetrachloroethane	12.362	83	48506	49.32	ug/L	99
85) 1,2,3-trichloropropane	12.411	75	47759	44.51	ug/L	96
86) n-propylbenzene	12.456	91	389939	56.07	ug/L	97
87) 2-chlorotoluene	12.535	91	239837	53.44	ug/L	96
88) 4-chlorotoluene	12.646	91	285929	55.86	ug/L	96
89) 1,3,5-trimethylbenzene	12.625	105	303254	53.73	ug/L	96
90) tert-butylbenzene	12.910	91	170454	59.27	ug/L	89
91) 1,2,4-trimethylbenzene	12.965	105	330383	58.17	ug/L	97
92) sec-butylbenzene	13.114	105	365426	58.51	ug/L	99
93) 1,3-dichlorobenzene	13.222	146	165657	51.40	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140807\
Data File : v33607.D
Acq On : 7 Aug 2014 9:34 am
Operator : amym
Sample : bsd
Misc : MS32448,MSV1231,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 13:07:46 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 17:44:41 2014
Response via : Initial Calibration

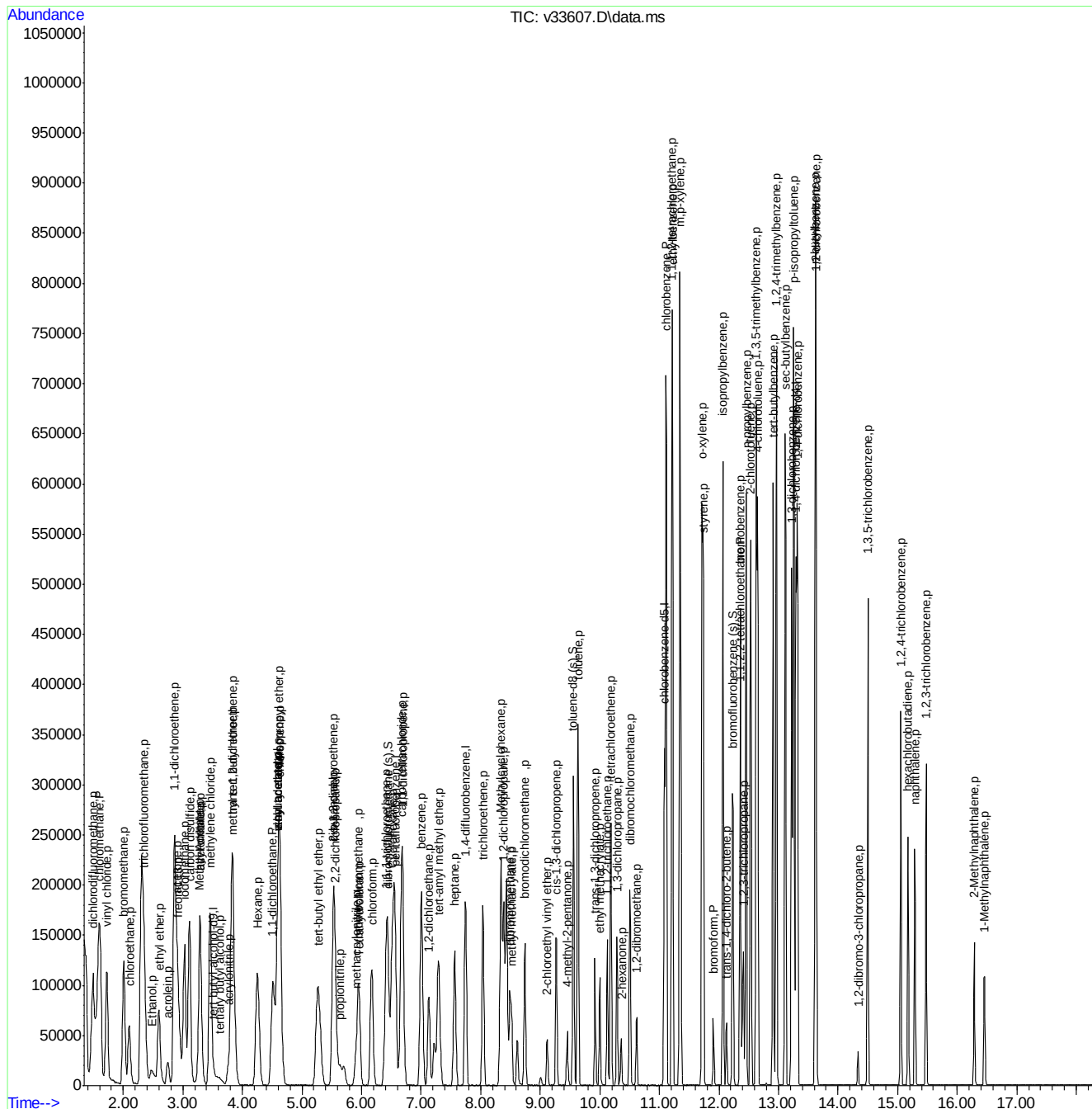
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) p-isopropyltoluene	13.254	119	341515	59.68	ug/L	97
95) 1,4-dichlorobenzene	13.317	146	176912	54.32	ug/L	97
96) 1,2-dichlorobenzene	13.634	146	167942	54.91	ug/L	98
97) n-butylbenzene	13.619	91	301972	63.61	ug/L	99
98) 1,2-dibromo-3-chloropr...	14.335	75	7032	48.60	ug/L	96
99) 1,3,5-trichlorobenzene	14.500	180	117602	51.48	ug/L	99
100) 1,2,4-trichlorobenzene	15.055	180	91350	50.53	ug/L	97
101) hexachlorobutadiene	15.176	225	35399	48.74	ug/L	100
102) naphthalene	15.289	128	141357	55.40	ug/L	100
103) 1,2,3-trichlorobenzene	15.478	180	75612	51.63	ug/L	98
104) 2-Methylnaphthalene	16.288	142	58341	59.91	ug/L	98
105) 1-Methylnaphthalene	16.457	142	47732	62.70	ug/L	99

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

Quantitation Report (QT Reviewed)

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Data Path   : C:\msdchem\1\DATA\V140807\
Data File  : v33607.D
Acq On     : 7 Aug 2014   9:34 am
Operator   : amym
Sample     : bsd
Misc       : MS32448,MSV1231,,,,,5,1
ALS Vial   : 4      Sample Multiplier: 1
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Quant Time: Aug 07 13:07:46 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 17:44:41 2014
Response via : Initial Calibration



v140801w.m Thu Aug 07 13:08:27 2014

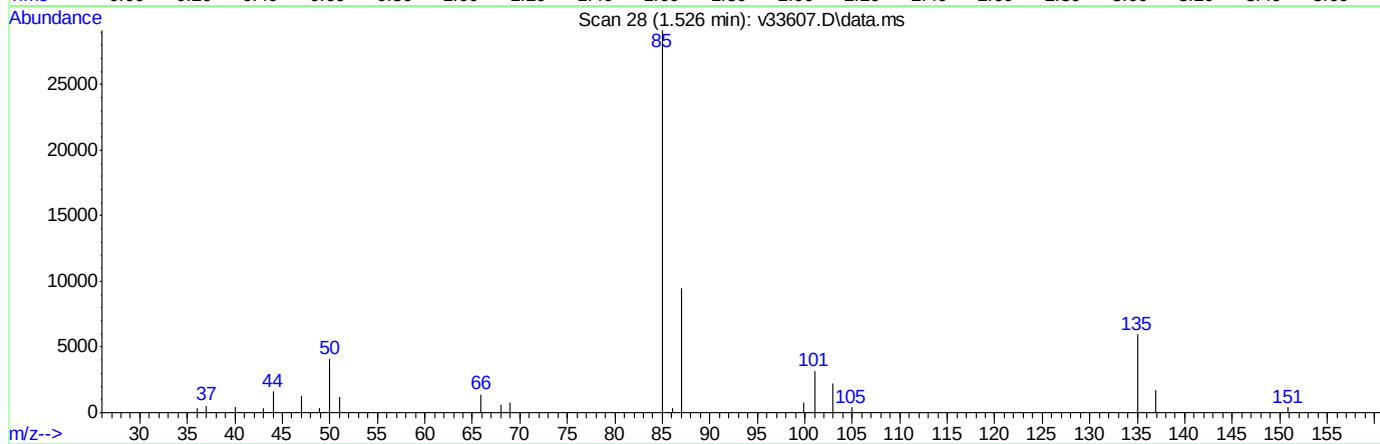
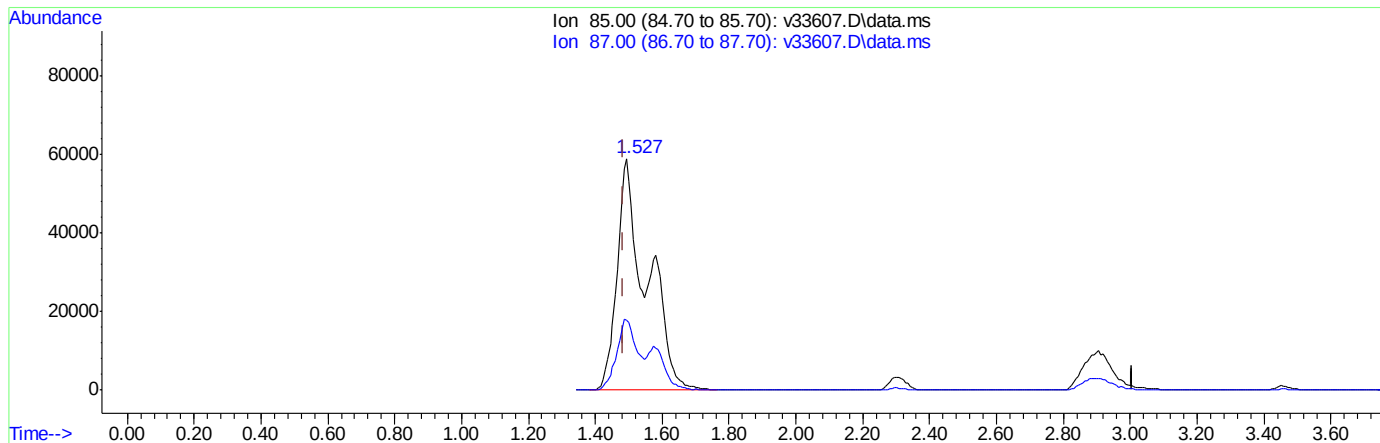
Page: 4

7.3.2

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140807\
Data File : v33607.D
Acq On : 7 Aug 2014 9:34 am
Operator : amym
Sample : bsd
Misc : MS32448,MSV1231,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 12:32:57 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 17:44:41 2014
Response via : Initial Calibration



TIC: v33607.D\data.ms

(5) dichlorodifluoromethane (p)

1.527min (+0.042) 70.33ug/L

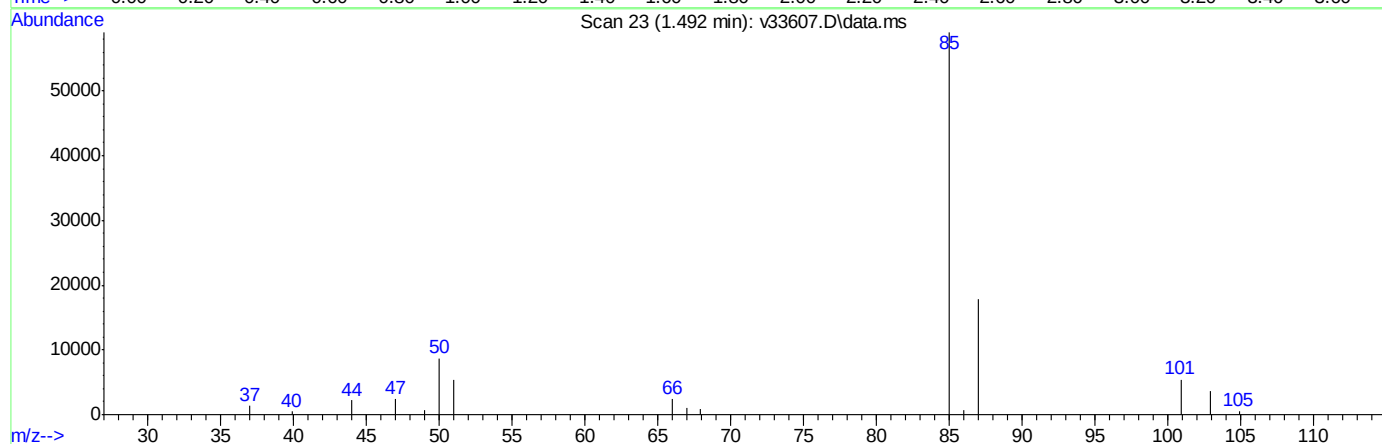
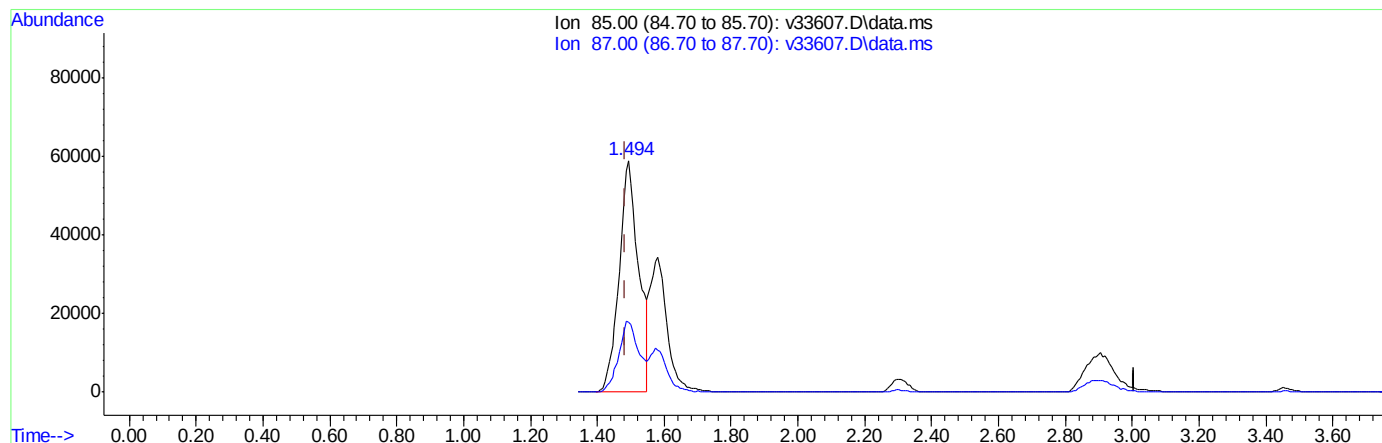
response 358055

Ion	Exp%	Act%
85.00	100	100
87.00	33.00	32.65
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140807\
Data File : v33607.D
Acq On : 7 Aug 2014 9:34 am
Operator : amym
Sample : bsd
Misc : MS32448,MSV1231,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 12:32:57 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 17:44:41 2014
Response via : Initial Calibration



TIC: v33607.D\data.ms

(5) dichlorodifluoromethane (p)

1.492min (+0.007) 41.78ug/L m

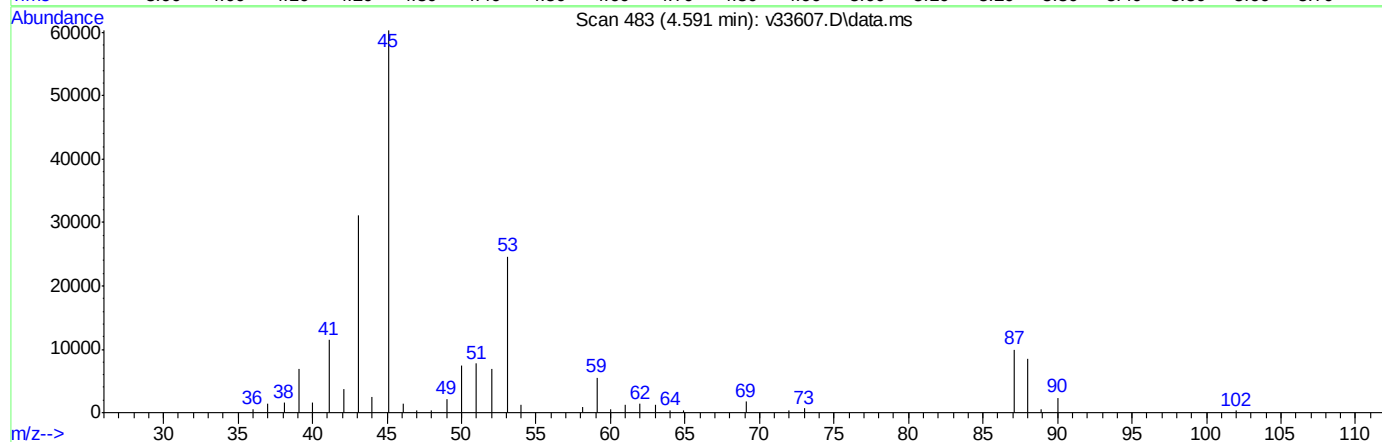
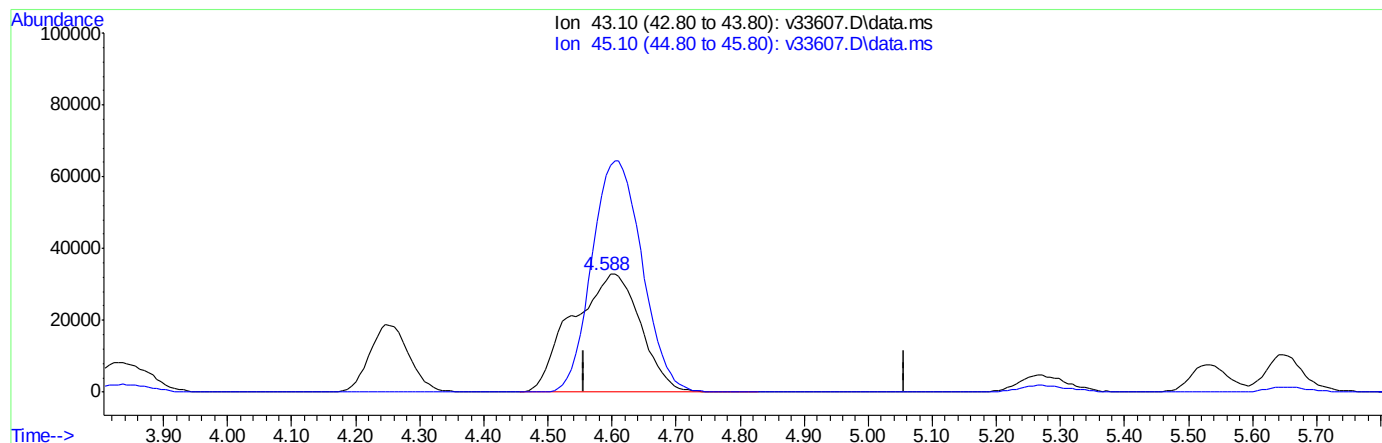
response 234827

Ion	Exp%	Act%
85.00	100	100
87.00	33.00	30.34
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140807\
Data File : v33607.D
Acq On : 7 Aug 2014 9:34 am
Operator : amym
Sample : bsd
Misc : MS32448,MSV1231,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 07 12:32:57 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 17:44:41 2014
Response via : Initial Calibration



(37) ethyl acetate (p)

4.591min (+0.034) 67.25ug/L m

response 243915

Ion	Exp%	Act%
43.10	100	100
45.10	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140807\
 Data File : v33622.D
 Acq On : 7 Aug 2014 4:06 pm
 Operator : amym
 Sample : mc32523-4ms
 Misc : MS32458,MSV1231,,,,5,5
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 07 16:30:29 2014
 Quant Method : C:\msdchem\1\METHODS\v140801w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Aug 01 17:44:41 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.513	65	42461	500.00	ug/L	0.02
4) pentafluorobenzene	6.562	168	263885	50.00	ug/L	0.02
43) 1,4-difluorobenzene	7.746	114	350644	50.00	ug/L	0.02
66) chlorobenzene-d5	11.084	82	156251	50.00	ug/L	0.02
80) 1,4-dichlorobenzene-d4	13.295	152	201116	50.00	ug/L	0.01
System Monitoring Compounds						
40) dibromofluoromethane (s)	6.441	113	155471	55.48	ug/L	0.02
Spiked Amount 50.000	Range 70 - 130		Recovery =	110.96%		
60) toluene-d8 (s)	9.557	98	368395	53.04	ug/L	0.02
Spiked Amount 50.000	Range 70 - 130		Recovery =	106.08%		
82) bromofluorobenzene (s)	12.232	95	160743	46.22	ug/L	0.01
Spiked Amount 50.000	Range 70 - 130		Recovery =	92.44%		
Target Compounds						
					Qvalue	
2) tertiary butyl alcohol	3.626	59	31386	438.92	ug/L	88
3) Ethanol	2.489	45	73947	13884.34	ug/L #	100
5) dichlorodifluoromethane	1.494	85	485841	41.66	ug/L	99
6) chloromethane	1.606	50	408926	62.96	ug/L	97
7) vinyl chloride	1.719	62	372022	56.86	ug/L	99
8) bromomethane	2.008	96	237528	59.17	ug/L	99
9) chloroethane	2.102	64	169039	76.63	ug/L	99
10) ethyl ether	2.600	59	152434	69.95	ug/L	92
11) acetonitrile	3.289	41	437740	81.56	ug/L #	21
12) trichlorofluoromethane	2.340	101	606096	63.76	ug/L	99
13) freon-113	2.911	101	316613	64.76	ug/L	97
14) acrolein	2.749	56	61946	212.01	ug/L	100
15) 1,1-dichloroethene	2.860	96	215933	69.12	ug/L #	76
16) acetone	2.902	58	11705	25.32	ug/L #	68
17) Methyl Acetate	3.276	43	123859	84.72	ug/L	97
18) methylene chloride	3.459	84	204860	58.92	ug/L #	82
19) methyl tert butyl ether	3.838	73	346849	56.99	ug/L	99
20) acrylonitrile	3.779	53	60259	77.37	ug/L	97
21) allyl chloride	3.289	41	437740	81.57	ug/L	92
22) trans-1,2-dichloroethene	3.831	96	192283	63.15	ug/L #	81
23) iodomethane	3.027	142	506046	59.54	ug/L	85
24) carbon disulfide	3.111	76	763339	84.20	ug/L	98
25) propionitrile	5.646	54	14996	72.81	ug/L	100
26) vinyl acetate	4.586	43	543075	72.18	ug/L	96
27) chloroprene	4.620	53	438436	106.52	ug/L	87
28) di-isopropyl ether	4.608	45	783579	79.26	ug/L	98
29) methacrylonitrile	5.920	41	76520	76.11	ug/L	96
30) 2-butanone	5.535	72	8654	43.59	ug/L #	63
31) Hexane	4.252	41	241371	93.27	ug/L	91
32) 1,1-dichloroethane	4.509	63	398335	70.00	ug/L	99
33) tert-butyl ethyl ether	5.275	59	409521	63.03	ug/L	95
34) isobutyl alcohol	4.586	43	543075	358.60	ug/L	88
35) 2,2-dichloropropane	5.550	77	201616	59.69	ug/L	94
36) cis-1,2-dichloroethene	5.531	96	163283	59.40	ug/L #	78

7.4.1

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140807\
 Data File : v33622.D
 Acq On : 7 Aug 2014 4:06 pm
 Operator : amym
 Sample : mc32523-4ms
 Misc : MS32458,MSV1231,,,,5,5
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 07 16:30:29 2014
 Quant Method : C:\msdchem\1\METHODS\v140801w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Aug 01 17:44:41 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) ethyl acetate	4.584	43	543087m	72.21	ug/L	
38) bromochloromethane	5.952	128	77733	58.61	ug/L #	83
39) chloroform	6.171	83	324771	65.29	ug/L	99
41) Tetrahydrofuran	5.962	42	27341	74.32	ug/L	95
42) 1,1,1-trichloroethane	6.418	97	323245	74.28	ug/L	96
44) Cyclohexane	6.526	56	372112	76.88	ug/L	90
45) carbon tetrachloride	6.673	117	330520	69.08	ug/L	100
46) 1,1-dichloropropene	6.686	75	206785	66.65	ug/L	93
47) benzene	7.005	78	487818	58.97	ug/L	100
48) 1,2-dichloroethane	7.129	62	257345	72.46	ug/L	96
49) tert-amyl methyl ether	7.294	73	229571	59.79	ug/L	94
50) heptane	7.564	43	215623	86.50	ug/L	96
51) trichloroethene	8.038	95	153271	60.48	ug/L	91
52) 1,2-dichloropropane	8.387	63	155066	66.87	ug/L	99
53) dibromomethane	8.491	93	80725	66.13	ug/L	98
54) bromodichloromethane	8.742	83	200662	78.54	ug/L	98
55) Methylcyclohexane	8.342	83	205024	66.23	ug/L #	84
56) 2-chloroethyl vinyl ether	9.117	63	7815	12.20	ug/L	98
57) methyl methacrylate	8.521	69	42918	53.95	ug/L	94
59) cis-1,3-dichloropropene	9.269	75	149558	61.55	ug/L	94
61) 4-methyl-2-pentanone	9.454	43	92478	71.30	ug/L	98
62) toluene	9.633	92	287327	62.02	ug/L	96
63) trans-1,3-dichloropropene	9.921	75	113461	61.68	ug/L	93
64) 1,1,2-trichloroethane	10.125	83	68139	61.84	ug/L	96
65) ethyl methacrylate	10.002	69	79209	53.63	ug/L	92
67) tetrachloroethene	10.186	166	142973	52.59	ug/L	96
68) 1,3-dichloropropane	10.288	76	132327	54.26	ug/L	99
69) dibromochloromethane	10.508	129	116529	57.42	ug/L	94
70) 1,2-dibromoethane	10.617	107	84229	55.34	ug/L	98
71) 2-hexanone	10.362	43	55787	40.91	ug/L	99
72) chlorobenzene	11.114	112	334747	55.53	ug/L	94
73) 1,1,1,2-tetrachloroethane	11.213	131	151070	51.50	ug/L	98
74) ethylbenzene	11.218	91	640349	58.44	ug/L	98
75) m,p-xylene	11.349	106	479482	113.92	ug/L	89
76) o-xylene	11.716	106	241042	57.14	ug/L	88
77) styrene	11.737	104	373811	60.38	ug/L	95
78) bromoform	11.911	173	58936	54.59	ug/L	98
79) trans-1,4-dichloro-2-b...	12.127	53	27387	47.40	ug/L	97
81) isopropylbenzene	12.068	105	702511	57.58	ug/L	99
83) bromobenzene	12.358	156	156913	48.90	ug/L	96
84) 1,1,2,2-tetrachloroethane	12.363	83	100704	51.55	ug/L	99
85) 1,2,3-trichloropropane	12.402	75	120866	56.72	ug/L	99
86) n-propylbenzene	12.456	91	819291	59.32	ug/L	97
87) 2-chlorotoluene	12.535	91	505921	56.76	ug/L	95
88) 4-chlorotoluene	12.646	91	598192	58.85	ug/L	95
89) 1,3,5-trimethylbenzene	12.626	105	637178	56.84	ug/L	95
90) tert-butylbenzene	12.911	91	360667	63.15	ug/L	88
91) 1,2,4-trimethylbenzene	12.966	105	690925	61.25	ug/L	95
92) sec-butylbenzene	13.114	105	775977	62.55	ug/L	100
93) 1,3-dichlorobenzene	13.223	146	343236	53.63	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140807\
Data File : v33622.D
Acq On : 7 Aug 2014 4:06 pm
Operator : amym
Sample : mc32523-4ms
Misc : MS32458,MSV1231,,,,5,5
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 07 16:30:29 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 17:44:41 2014
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94)	p-isopropyltoluene	13.255	119	720569	63.40	ug/L	97
95)	1,4-dichlorobenzene	13.318	146	366543	56.67	ug/L	99
96)	1,2-dichlorobenzene	13.635	146	341358	56.20	ug/L	99
97)	n-butylbenzene	13.620	91	641259	68.01	ug/L	97
98)	1,2-dibromo-3-chloropr...	14.336	75	14959	51.68	ug/L	98
99)	1,3,5-trichlorobenzene	14.500	180	235383	51.88	ug/L	98
100)	1,2,4-trichlorobenzene	15.056	180	176069	49.04	ug/L	97
101)	hexachlorobutadiene	15.177	225	72805	50.47	ug/L	100
102)	naphthalene	15.290	128	263178	51.93	ug/L	100
103)	1,2,3-trichlorobenzene	15.479	180	138019	47.45	ug/L	99
104)	2-Methylnaphthalene	16.288	142	81576	44.83	ug/L	99
105)	1-Methylnaphthalene	16.458	142	58148	41.08	ug/L	99

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

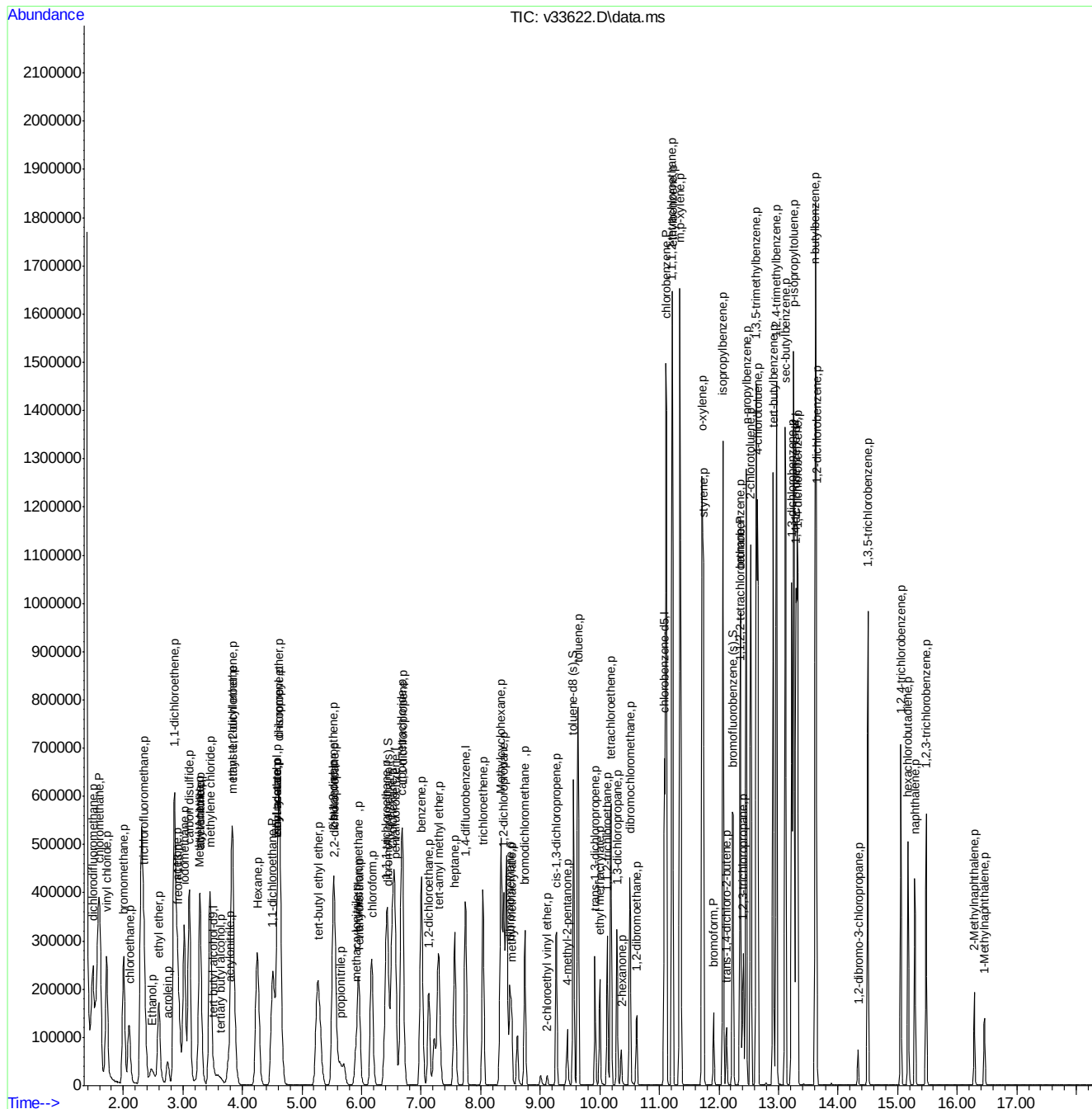
7.4.1

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Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140807\
Data File : v33622.D
Acq On : 7 Aug 2014 4:06 pm
Operator : amym
Sample : mc32523-4ms
Misc : MS32458,MSV1231,,,,,5,5
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 07 16:30:29 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 17:44:41 2014
Response via : Initial Calibration



v140801w.m Thu Aug 07 16:31:08 2014

Page: 4

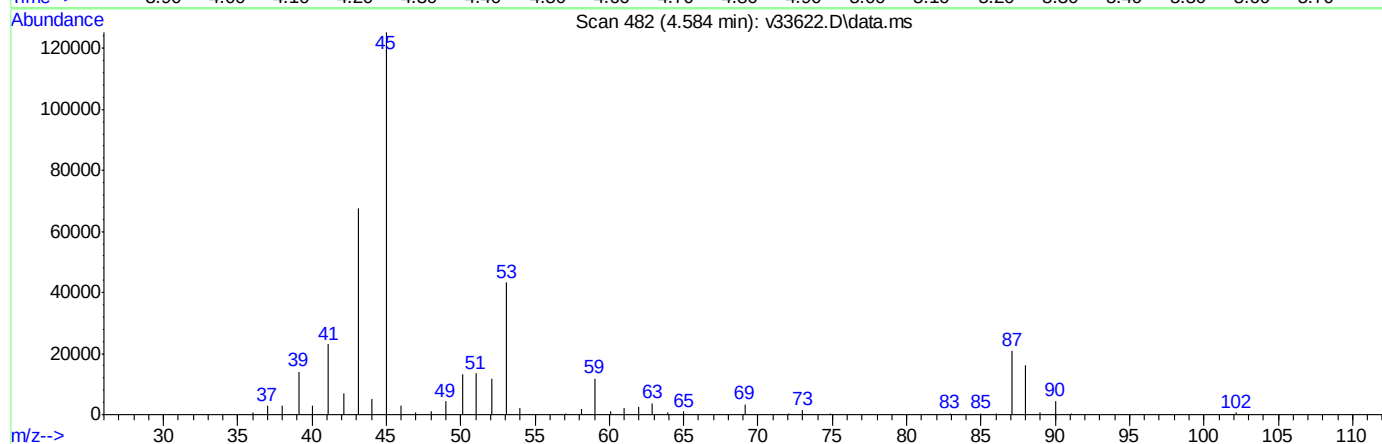
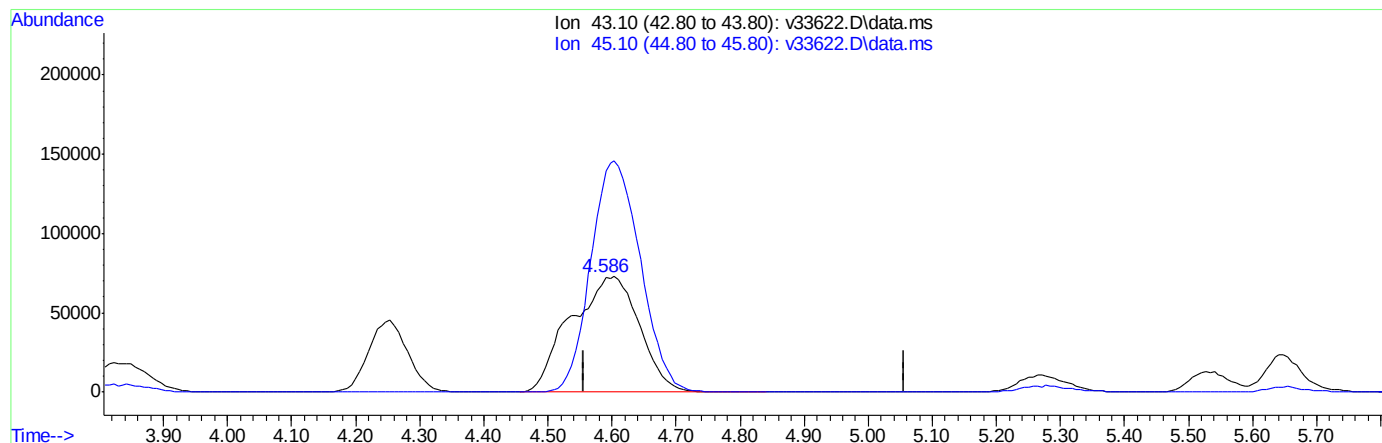
7.4.1



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140807\
Data File : v33622.D
Acq On : 7 Aug 2014 4:06 pm
Operator : amym
Sample : mc32523-4ms
Misc : MS32458,MSV1231,,,,5,5
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 07 16:30:08 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 17:44:41 2014
Response via : Initial Calibration



(37) ethyl acetate (p)

4.584min (+0.027) 72.21ug/L m

response 543087

Ion	Exp%	Act%
43.10	100	100
45.10	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140807\
 Data File : v33623.D
 Acq On : 7 Aug 2014 4:32 pm
 Operator : amym
 Sample : mc32523-4msd
 Misc : MS32458,MSV1231,,,,5,5
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Aug 07 16:51:30 2014
 Quant Method : C:\msdchem\1\METHODS\v140801w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Aug 01 17:44:41 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.517	65	49759	500.00	ug/L	0.02
4) pentafluorobenzene	6.565	168	270632	50.00	ug/L	0.03
43) 1,4-difluorobenzene	7.747	114	355281	50.00	ug/L	0.02
66) chlorobenzene-d5	11.085	82	157253	50.00	ug/L	0.02
80) 1,4-dichlorobenzene-d4	13.296	152	198589	50.00	ug/L	0.01
System Monitoring Compounds						
40) dibromofluoromethane (s)	6.443	113	157087	54.65	ug/L	0.03
Spiked Amount 50.000	Range 70 - 130		Recovery =	109.30%		
60) toluene-d8 (s)	9.559	98	375521	53.36	ug/L	0.02
Spiked Amount 50.000	Range 70 - 130		Recovery =	106.72%		
82) bromofluorobenzene (s)	12.233	95	159725	46.51	ug/L	0.01
Spiked Amount 50.000	Range 70 - 130		Recovery =	93.02%		
Target Compounds						
					Qvalue	
2) tertiary butyl alcohol	3.627	59	37373	445.99	ug/L	92
3) Ethanol	2.490	45	87218	13977.66	ug/L #	100
5) dichlorodifluoromethane	1.495	85	477538	39.67	ug/L	99
6) chloromethane	1.608	50	447116	68.30	ug/L	99
7) vinyl chloride	1.722	62	384896	57.47	ug/L	96
8) bromomethane	2.009	96	241518	58.55	ug/L	96
9) chloroethane	2.103	64	169205	74.23	ug/L	96
10) ethyl ether	2.602	59	161751	73.14	ug/L	96
11) acetonitrile	3.291	41	450557	81.86	ug/L #	22
12) trichlorofluoromethane	2.342	101	603667	61.49	ug/L	97
13) freon-113	2.915	101	324190	64.65	ug/L	97
14) acrolein	2.750	56	65507	219.25	ug/L	99
15) 1,1-dichloroethene	2.862	96	219359	68.46	ug/L #	75
16) acetone	2.901	58	13346	28.25	ug/L	94
17) Methyl Acetate	3.277	43	129785	86.57	ug/L	96
18) methylene chloride	3.461	84	210746	59.11	ug/L #	84
19) methyl tert butyl ether	3.842	73	374763	60.05	ug/L	95
20) acrylonitrile	3.779	53	62101	77.74	ug/L	94
21) allyl chloride	3.291	41	450557	81.86	ug/L	94
22) trans-1,2-dichloroethene	3.834	96	194478	62.28	ug/L	87
23) iodomethane	3.029	142	521053	59.78	ug/L	88
24) carbon disulfide	3.113	76	778326	83.71	ug/L	98
25) propionitrile	5.647	54	15389	72.85	ug/L	100
26) vinyl acetate	4.587	43	565129	73.24	ug/L	96
27) chloroprene	4.623	53	439519	104.12	ug/L	85
28) di-isopropyl ether	4.610	45	813181	80.20	ug/L	99
29) methacrylonitrile	5.921	41	81470	79.02	ug/L	92
30) 2-butanone	5.536	72	9001	44.17	ug/L	93
31) Hexane	4.255	41	237459	89.47	ug/L	92
32) 1,1-dichloroethane	4.512	63	402786	69.02	ug/L	99
33) tert-butyl ethyl ether	5.277	59	440390	66.10	ug/L	97
34) isobutyl alcohol	4.587	43	565129	363.85	ug/L	86
35) 2,2-dichloropropane	5.552	77	209707	60.53	ug/L	92
36) cis-1,2-dichloroethene	5.534	96	167009	59.24	ug/L #	79

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140807\
Data File : v33623.D
Acq On : 7 Aug 2014 4:32 pm
Operator : amym
Sample : mc32523-4msd
Misc : MS32458,MSV1231,,,,5,5
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Aug 07 16:51:30 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 17:44:41 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) ethyl acetate	4.590	43	565138m	73.26	ug/L	
38) bromochloromethane	5.954	128	79414	58.38	ug/L	# 82
39) chloroform	6.173	83	326320	63.97	ug/L	98
41) Tetrahydrofuran	5.964	42	29357	77.65	ug/L	90
42) 1,1,1-trichloroethane	6.419	97	324036	72.60	ug/L	97
44) Cyclohexane	6.528	56	376060	76.68	ug/L	91
45) carbon tetrachloride	6.675	117	333880	68.87	ug/L	99
46) 1,1-dichloropropene	6.688	75	205862	65.49	ug/L	93
47) benzene	7.007	78	496403	59.22	ug/L	98
48) 1,2-dichloroethane	7.131	62	259596	72.14	ug/L	97
49) tert-amyl methyl ether	7.295	73	244178	62.77	ug/L	93
50) heptane	7.566	43	214388	84.88	ug/L	96
51) trichloroethene	8.040	95	151999	59.19	ug/L	94
52) 1,2-dichloropropane	8.388	63	158459	67.45	ug/L	99
53) dibromomethane	8.492	93	81424	65.84	ug/L	99
54) bromodichloromethane	8.742	83	200545	77.46	ug/L	96
55) Methylcyclohexane	8.343	83	210370	67.07	ug/L	87
57) methyl methacrylate	8.522	69	46100	56.96	ug/L	99
59) cis-1,3-dichloropropene	9.270	75	153635	62.32	ug/L	93
61) 4-methyl-2-pentanone	9.455	43	98828	75.20	ug/L	99
62) toluene	9.634	92	289167	61.60	ug/L	97
63) trans-1,3-dichloropropene	9.921	75	117199	62.79	ug/L	95
64) 1,1,2-trichloroethane	10.128	83	73538	65.87	ug/L	95
65) ethyl methacrylate	10.003	69	84726	56.34	ug/L	92
67) tetrachloroethene	10.187	166	143985	52.62	ug/L	95
68) 1,3-dichloropropane	10.289	76	138051	56.24	ug/L	100
69) dibromochloromethane	10.509	129	120395	58.87	ug/L	100
70) 1,2-dibromoethane	10.618	107	86840	56.69	ug/L	98
71) 2-hexanone	10.363	43	60194	43.86	ug/L	99
72) chlorobenzene	11.115	112	334654	55.16	ug/L	98
73) 1,1,1,2-tetrachloroethane	11.214	131	152422	51.63	ug/L	96
74) ethylbenzene	11.219	91	639302	57.97	ug/L	97
75) m,p-xylene	11.350	106	482576	113.93	ug/L	90
76) o-xylene	11.717	106	244599	57.62	ug/L	88
77) styrene	11.737	104	373310	59.92	ug/L	93
78) bromoform	11.911	173	60322	55.42	ug/L	99
79) trans-1,4-dichloro-2-b...	12.128	53	28813	49.39	ug/L	96
81) isopropylbenzene	12.068	105	710165	58.94	ug/L	100
83) bromobenzene	12.359	156	158478	50.02	ug/L	98
84) 1,1,2,2-tetrachloroethane	12.363	83	105778	54.84	ug/L	99
85) 1,2,3-trichloropropane	12.403	75	123112	58.51	ug/L	96
86) n-propylbenzene	12.457	91	821715	60.25	ug/L	97
87) 2-chlorotoluene	12.536	91	501865	57.02	ug/L	95
88) 4-chlorotoluene	12.647	91	597676	59.54	ug/L	95
89) 1,3,5-trimethylbenzene	12.626	105	639962	57.81	ug/L	95
90) tert-butylbenzene	12.912	91	361694	64.14	ug/L	90
91) 1,2,4-trimethylbenzene	12.966	105	695110	62.40	ug/L	96
92) sec-butylbenzene	13.115	105	778266	63.54	ug/L	100
93) 1,3-dichlorobenzene	13.223	146	348733	55.18	ug/L	99
94) p-isopropyltoluene	13.255	119	726494	64.74	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140807\
Data File : v33623.D
Acq On : 7 Aug 2014 4:32 pm
Operator : amym
Sample : mc32523-4msd
Misc : MS32458,MSV1231,,,,5,5
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Aug 07 16:51:30 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 17:44:41 2014
Response via : Initial Calibration

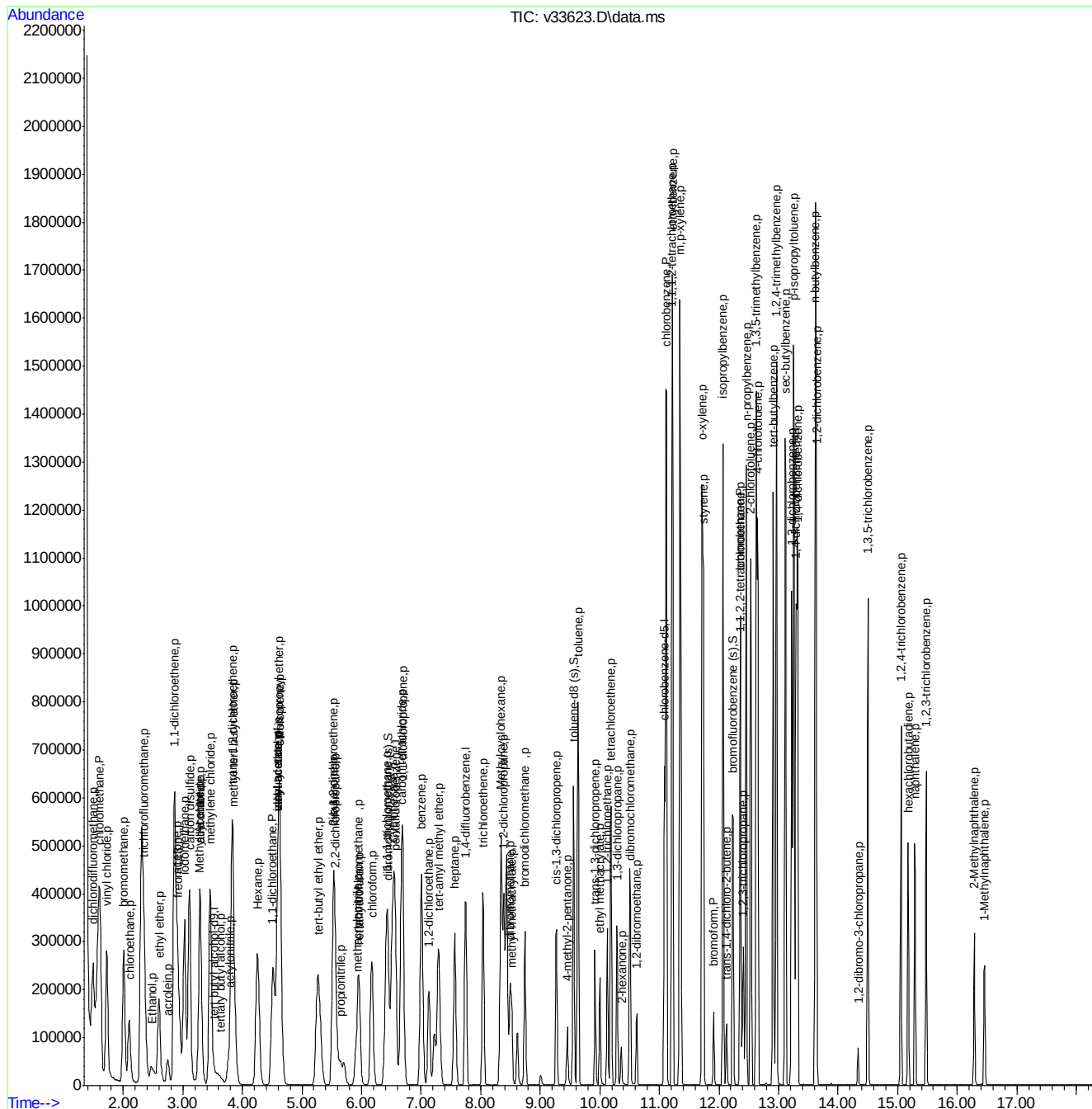
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) 1,4-dichlorobenzene	13.318	146	363292	56.88	ug/L	99
96) 1,2-dichlorobenzene	13.635	146	351401	58.59	ug/L	98
97) n-butylbenzene	13.620	91	637524	68.48	ug/L	97
98) 1,2-dibromo-3-chloropr...	14.336	75	16104	55.87	ug/L	97
99) 1,3,5-trichlorobenzene	14.501	180	242940	54.22	ug/L	99
100) 1,2,4-trichlorobenzene	15.056	180	189849	53.55	ug/L	98
101) hexachlorobutadiene	15.177	225	74162	52.07	ug/L	99
102) naphthalene	15.290	128	308858	61.72	ug/L	100
103) 1,2,3-trichlorobenzene	15.479	180	158287	55.11	ug/L	100
104) 2-Methylnaphthalene	16.288	142	134079	68.10	ug/L	99
105) 1-Methylnaphthalene	16.458	142	107452	70.40	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140807\
Data File : v33623.D
Acq On : 7 Aug 2014 4:32 pm
Operator : amym
Sample : mc32523-4msd
Misc : MS32458,MSV1231,,,,,5,5
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Aug 07 16:51:30 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 17:44:41 2014
Response via : Initial Calibration



v140801w.m Thu Aug 07 16:51:54 2014

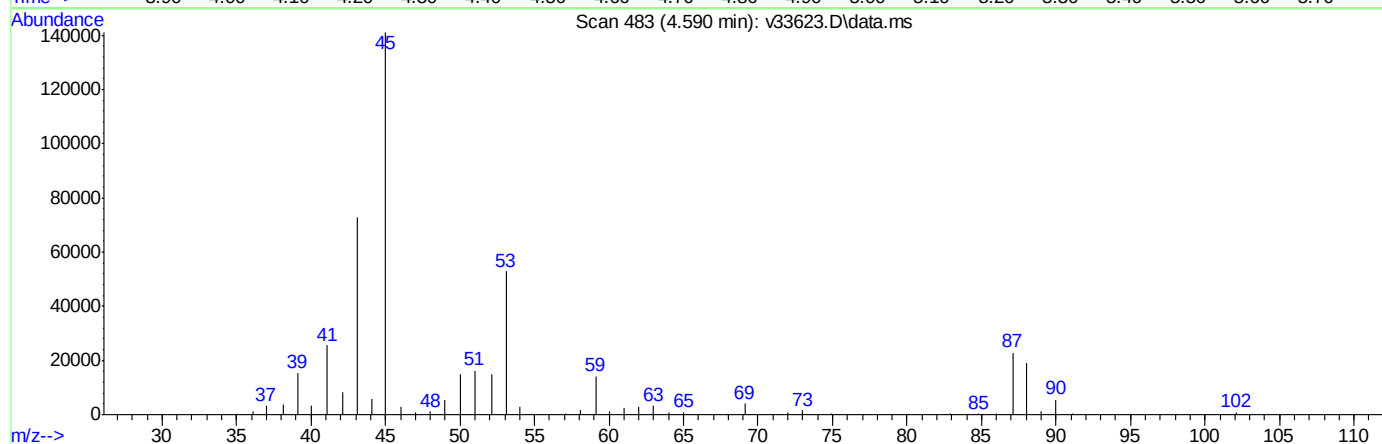
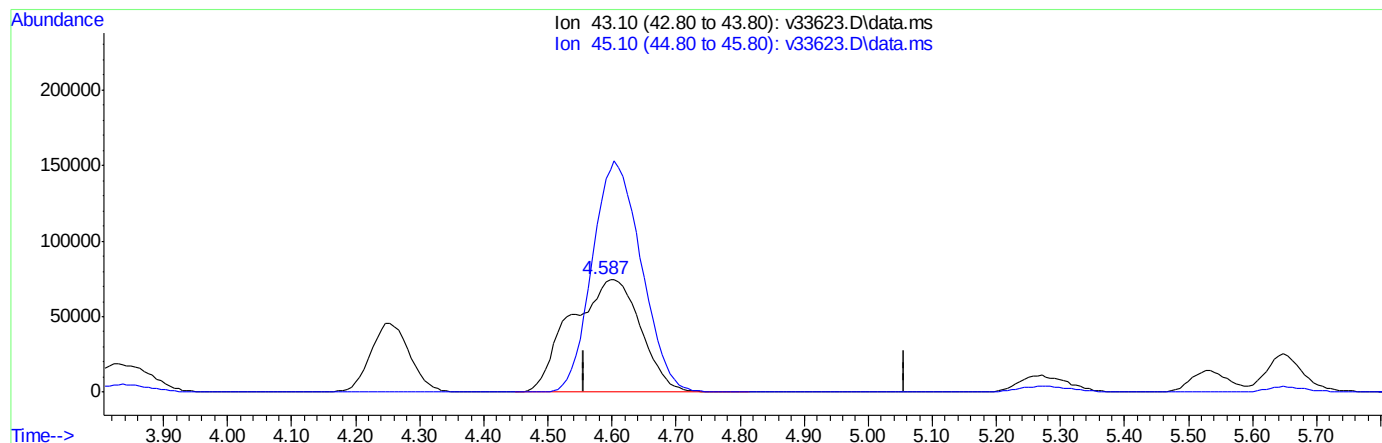
Page: 4

7.4.2

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140807\
Data File : v33623.D
Acq On : 7 Aug 2014 4:32 pm
Operator : amym
Sample : mc32523-4msd
Misc : MS32458,MSV1231,,,,5,5
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Aug 07 16:50:58 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 17:44:41 2014
Response via : Initial Calibration



(37) ethyl acetate (p)

4.590min (+0.033) 73.26ug/L m

response 565138

Ion	Exp%	Act%
43.10	100	100
45.10	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

SW-846 Method 8260

Data File : C:\msdchem\1\DATA\V140801\v33440.D

Vial: 2

Acq On : 1 Aug 2014 8:35 am

Operator: amym

Sample : bfb

Inst : MSV

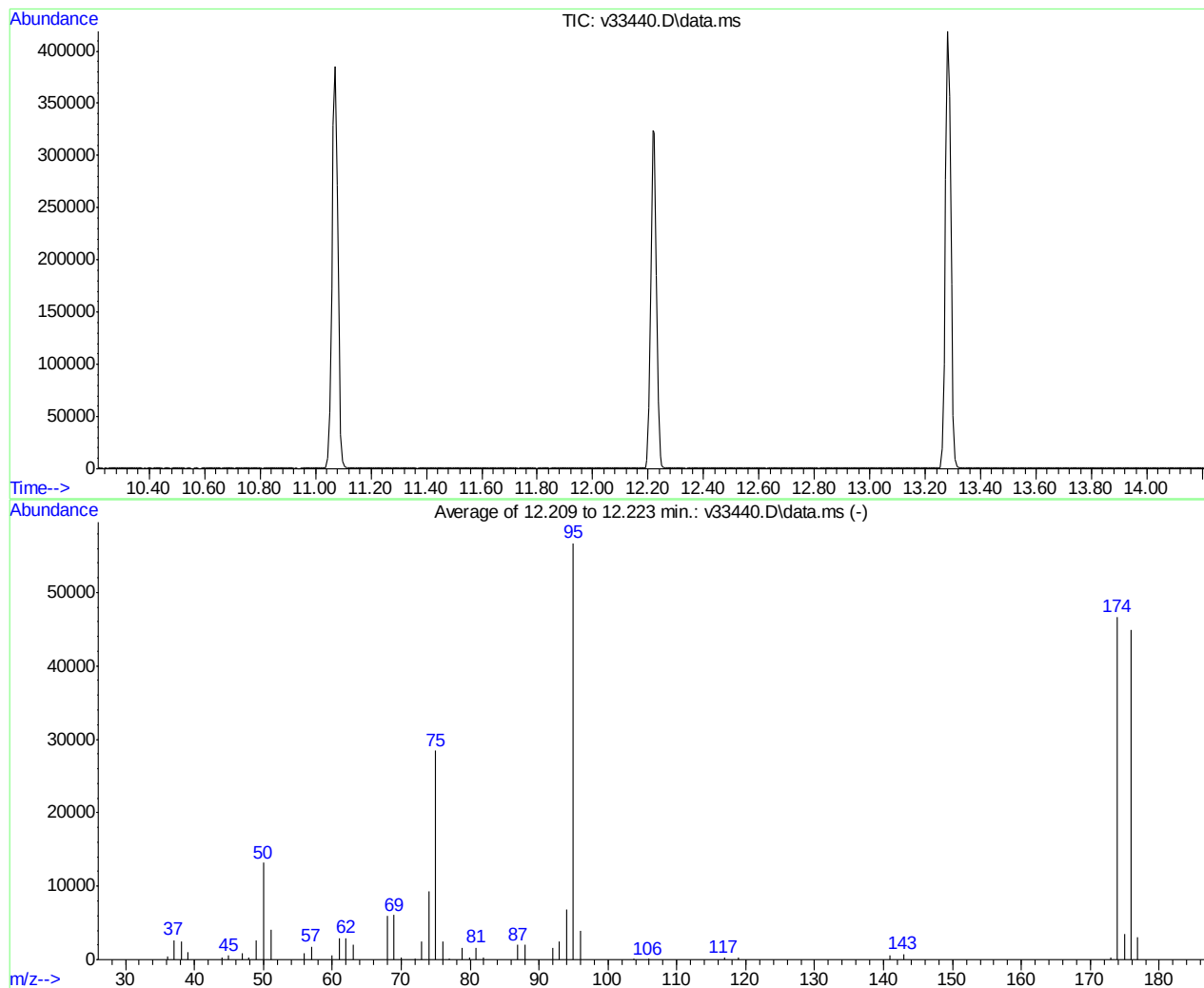
Misc : MS32359,MSV1226,,,,,5,1

Multiplr: 1.00

MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\v140801w.m (RTE Integrator)

Title : SW-846 Method 8260



Spectrum Information: Average of 12.209 to 12.223 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.2	13183	PASS
75	95	30	60	50.1	28419	PASS
95	95	100	100	100.0	56736	PASS
96	95	5	9	7.1	4000	PASS
173	174	0.00	2	0.7	328	PASS
174	95	50	100	82.2	46664	PASS
175	174	5	9	7.4	3430	PASS
176	174	95	101	96.1	44848	PASS
177	176	5	9	6.9	3078	PASS

v33440.D v140801w.m Mon Aug 04 12:36:40 2014

Average of 12.209 to 12.223 min.: v33440.D\data.ms

bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	465	56.00	942	74.00	9375	93.00	2433
37.00	2671	57.00	1773	75.00	28419	94.00	6837
38.05	2458	59.95	580	76.00	2419	95.00	56736
39.00	1068	61.00	2915	77.00	125	96.00	4000
44.00	335	62.00	2919	78.90	1578	103.80	113
45.00	533	63.00	2105	79.95	342	105.90	122
47.00	917	68.00	6033	80.90	1620	116.90	290
47.95	277	69.00	6051	81.90	262	118.95	235
49.00	2616	70.00	363	86.95	2030	140.90	653
50.00	13183	72.00	117	87.95	2004	142.90	730
51.05	4027	73.00	2449	92.00	1636	173.00	328

Average of 12.209 to 12.223 min.: v33440.D\data.ms

bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
173.90	46664						
174.95	3430						
175.90	44848						
176.90	3078						

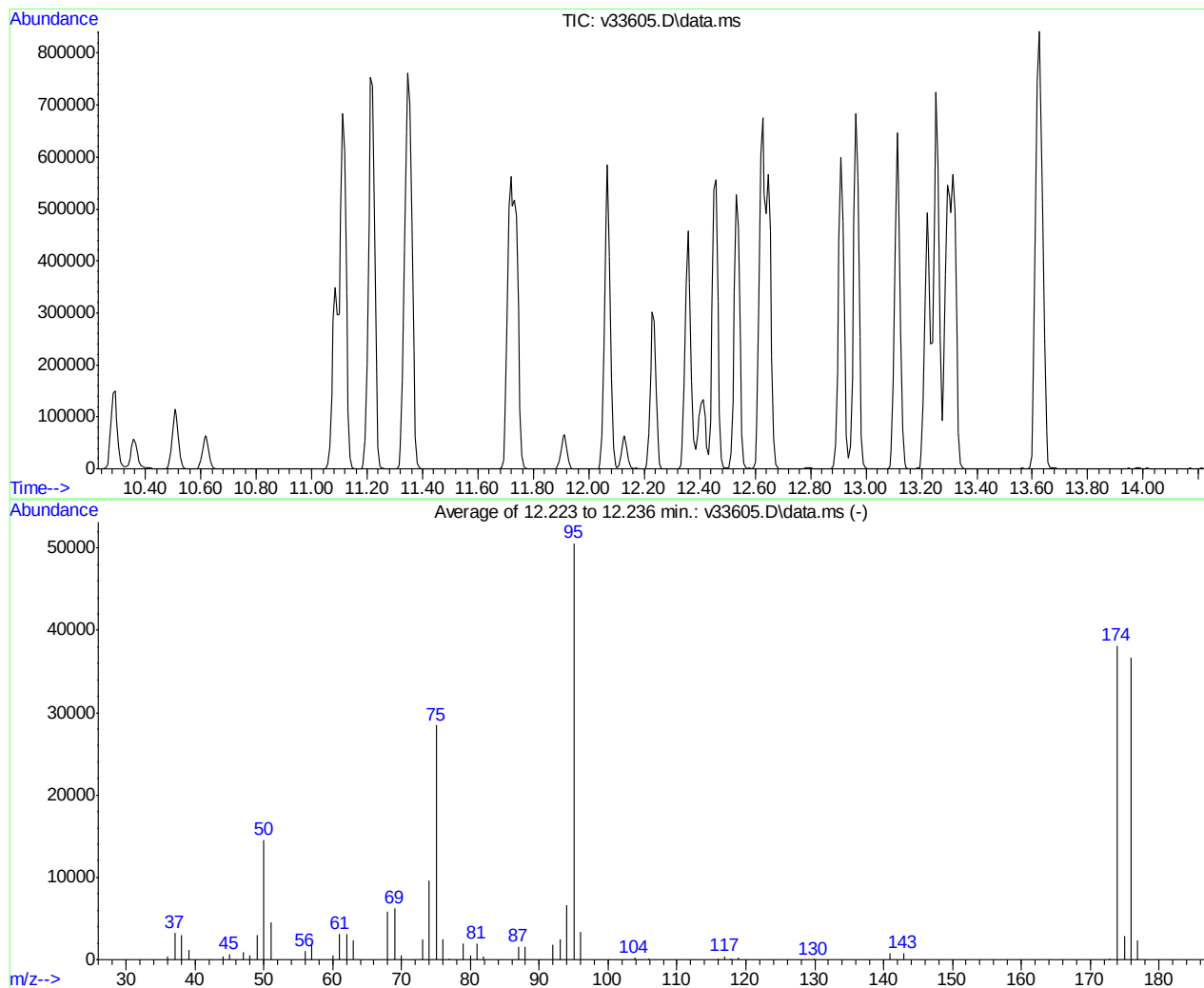
7.5.1

7

SW-846 Method 8260

Data File : C:\msdchem\1\DATA\V140807\v33605.D Vial: 2
Acq On : 7 Aug 2014 8:42 am Operator: amym
Sample : bfb Inst : MSV
Misc : MS32448,MSV1231,,,,5,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\METHODS\v140801w.m (RTE Integrator)
Title : SW-846 Method 8260



Spectrum Information: Average of 12.223 to 12.236 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	28.8	14569	PASS
75	95	30	60	56.3	28472	PASS
95	95	100	100	100.0	50616	PASS
96	95	5	9	6.7	3388	PASS
173	174	0.00	2	0.4	150	PASS
174	95	50	100	75.3	38131	PASS
175	174	5	9	7.6	2910	PASS
176	174	95	101	96.3	36715	PASS
177	176	5	9	6.4	2345	PASS

Average of 12.223 to 12.236 min.: v33605.D\data.ms

bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.95	422	56.00	1051	75.00	28472	94.00	6578
37.05	3243	57.00	1979	76.00	2442	95.00	50616
38.00	3027	60.00	543	77.00	111	96.00	3388
39.05	1150	61.00	3175	78.90	1937	103.85	216
44.00	405	62.00	3068	79.95	518	105.90	114
45.00	713	63.00	2301	80.90	1994	115.90	103
47.00	923	68.00	5888	81.95	442	116.95	400
47.95	469	69.00	6283	87.00	1621	117.90	115
49.00	2954	69.95	477	87.95	1501	118.95	271
50.00	14569	73.00	2422	92.00	1800	129.90	103
51.05	4590	74.00	9599	93.00	2407	140.90	828

Average of 12.223 to 12.236 min.: v33605.D\data.ms

bfb

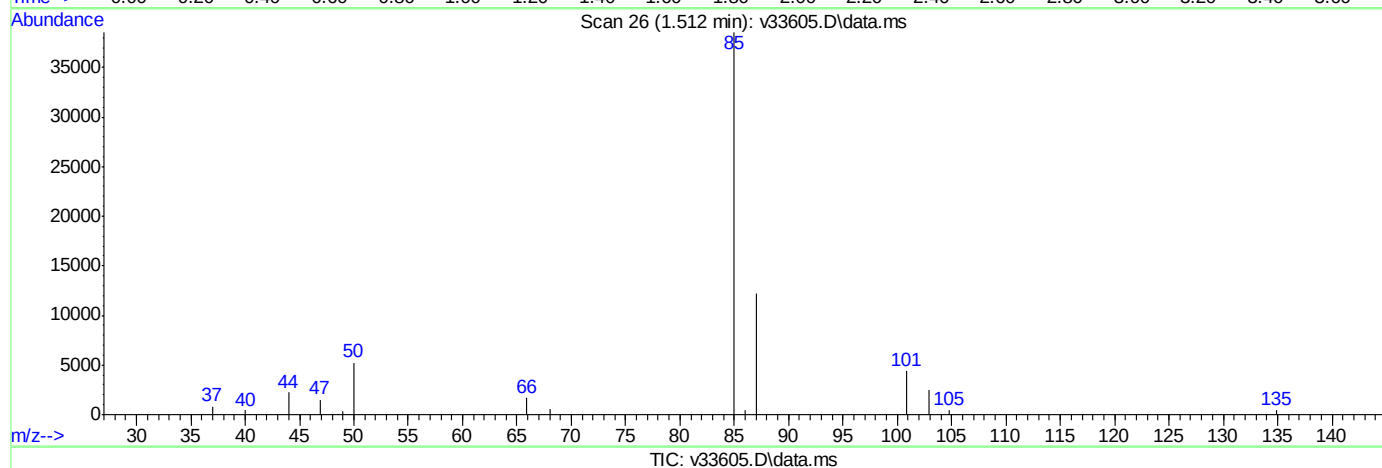
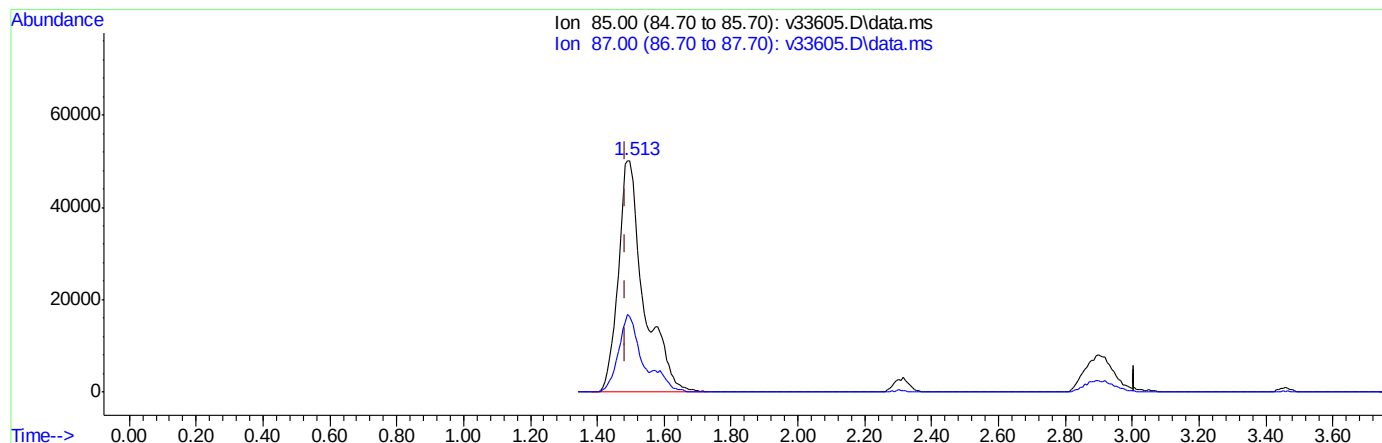
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
142.90	840						
172.90	150						
173.90	38131						
174.95	2910						
175.90	36715						
176.95	2345						

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140807\
Data File : v33605.D
Acq On : 7 Aug 2014 8:42 am
Operator : amym
Sample : cc1226-50
Misc : MS32448,MSV1231,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 07 12:32:52 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 17:44:41 2014
Response via : Initial Calibration



(5) dichlorodifluoromethane (p)

1.513min (+0.028) 44.79ug/L

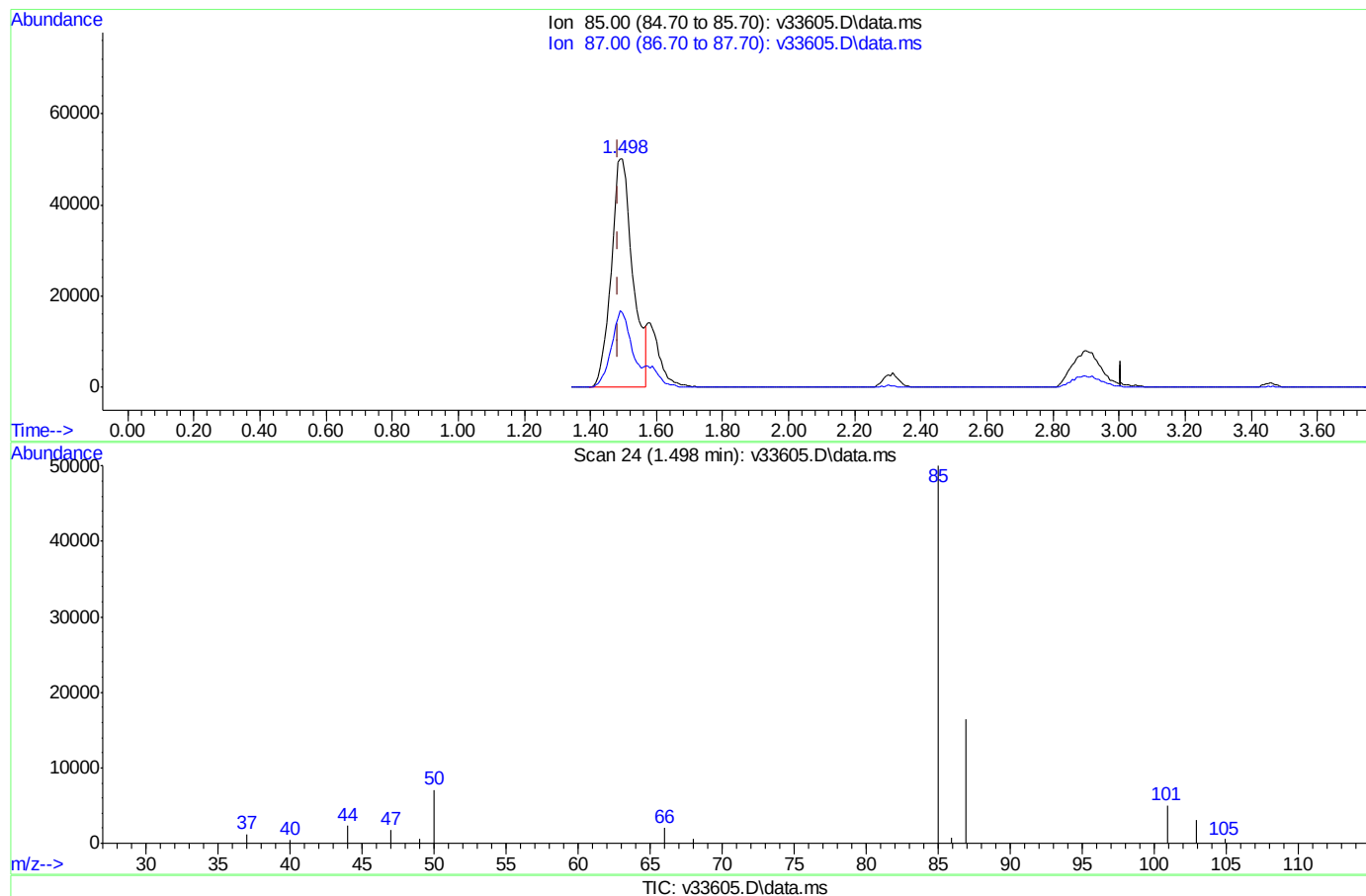
response 257419

Ion	Exp%	Act%
85.00	100	100
87.00	33.00	31.54
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140807\
Data File : v33605.D
Acq On : 7 Aug 2014 8:42 am
Operator : amym
Sample : cc1226-50
Misc : MS32448,MSV1231,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 07 12:32:52 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 17:44:41 2014
Response via : Initial Calibration



(5) dichlorodifluoromethane (p)

1.498min (+0.013) 37.25ug/L m

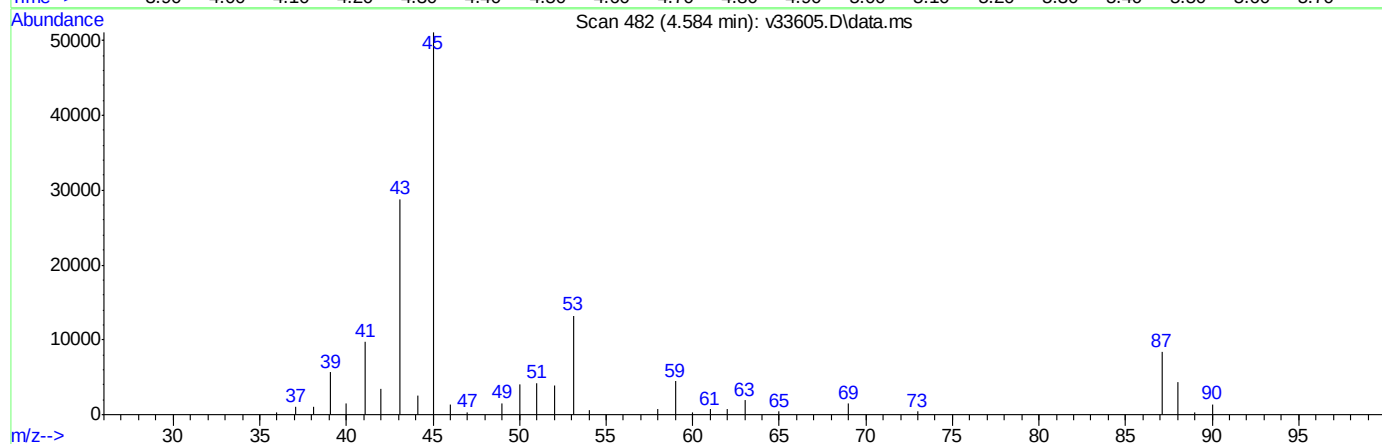
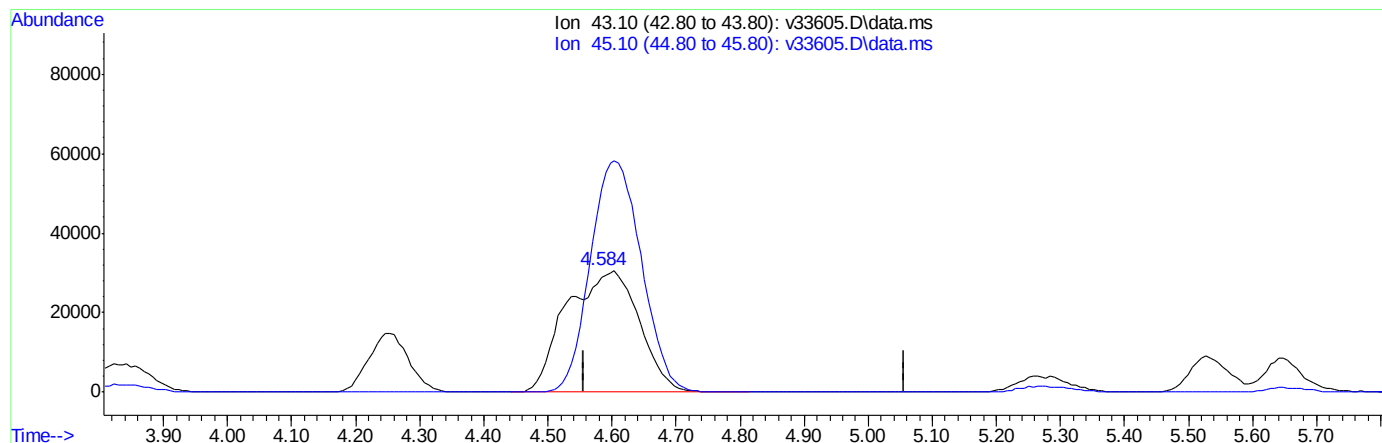
response 219377

Ion	Exp%	Act%
85.00	100	100
87.00	33.00	32.76
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140807\
Data File : v33605.D
Acq On : 7 Aug 2014 8:42 am
Operator : amym
Sample : cc1226-50
Misc : MS32448,MSV1231,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 07 12:32:52 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 17:44:41 2014
Response via : Initial Calibration



TIC: v33605.D\data.ms

(37) ethyl acetate (p)

4.584min (+0.027) 64.26ug/L m

response 240647

Ion	Exp%	Act%
43.10	100	100
45.10	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
 Data File : v33442.D
 Acq On : 1 Aug 2014 9:27 am
 Operator : amym
 Sample : ic1226-0.5
 Misc : MS32359,MSV1226,,,,5,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 01 13:14:48 2014
 Quant Method : C:\msdchem\1\METHODS\v140801w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Aug 01 13:11:19 2014
 Response via : Initial Calibration

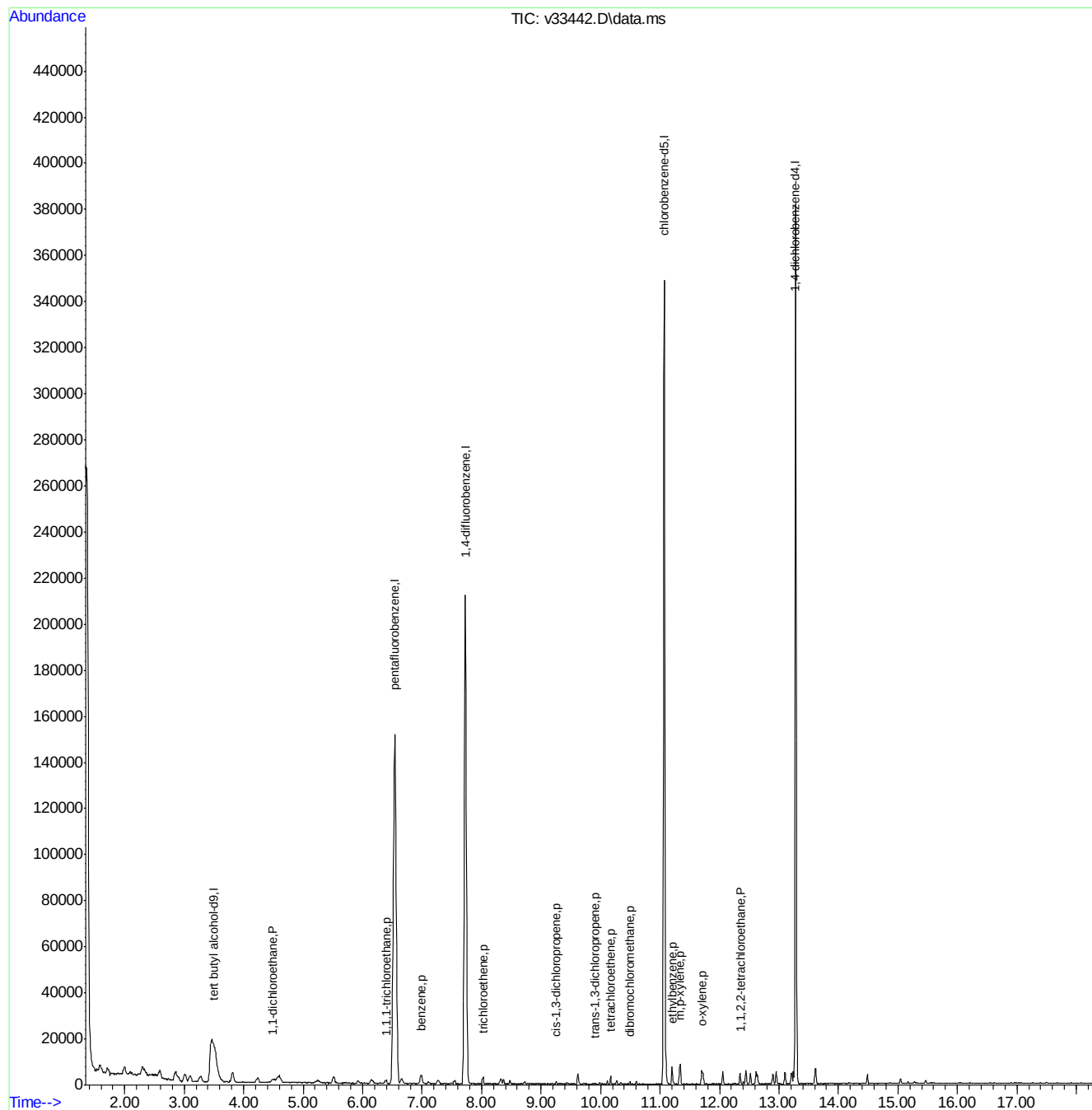
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.500	65	50029	500.00	ug/L	# 0.00
4) pentafluorobenzene	6.542	168	178791	50.00	ug/L	0.00
43) 1,4-difluorobenzene	7.727	114	221199	50.00	ug/L	0.00
66) chlorobenzene-d5	11.070	82	86468	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	13.283	152	85825	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	0.000	113	0	0.00	ug/L	
Spiked Amount 50.000	Range 70 - 130		Recovery =	0.00%		
60) toluene-d8 (s)	0.000	98	0	0.00	ug/L	
Spiked Amount 50.000	Range 70 - 130		Recovery =	0.00%		
82) bromofluorobenzene (s)	0.000	95	0	0.00	ug/L	
Spiked Amount 50.000	Range 70 - 130		Recovery =	0.00%		
Target Compounds						
32) 1,1-dichloroethane	4.487	63	3175	0.80	ug/L	# 51
42) 1,1,1-trichloroethane	6.388	97	1646	0.52	ug/L	90
47) benzene	6.982	78	5706m	1.11	ug/L	
51) trichloroethene	8.020	95	1140	0.75	ug/L	89
59) cis-1,3-dichloropropene	9.252	75	795m	0.54	ug/L	
63) trans-1,3-dichloropropene	9.906	75	506m	0.48	ug/L	
67) tetrachloroethene	10.172	166	1048	0.71	ug/L	80
69) dibromochloromethane	10.492	129	343m	0.33	ug/L	
74) ethylbenzene	11.204	91	4567	0.81	ug/L	93
75) m,p-xylene	11.335	106	3439	1.58	ug/L	95
76) o-xylene	11.702	106	1490	0.67	ug/L	91
84) 1,1,2,2-tetrachloroethane	12.351	83	570m	0.66	ug/L	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33442.D
Acq On : 1 Aug 2014 9:27 am
Operator : amym
Sample : ic1226-0.5
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

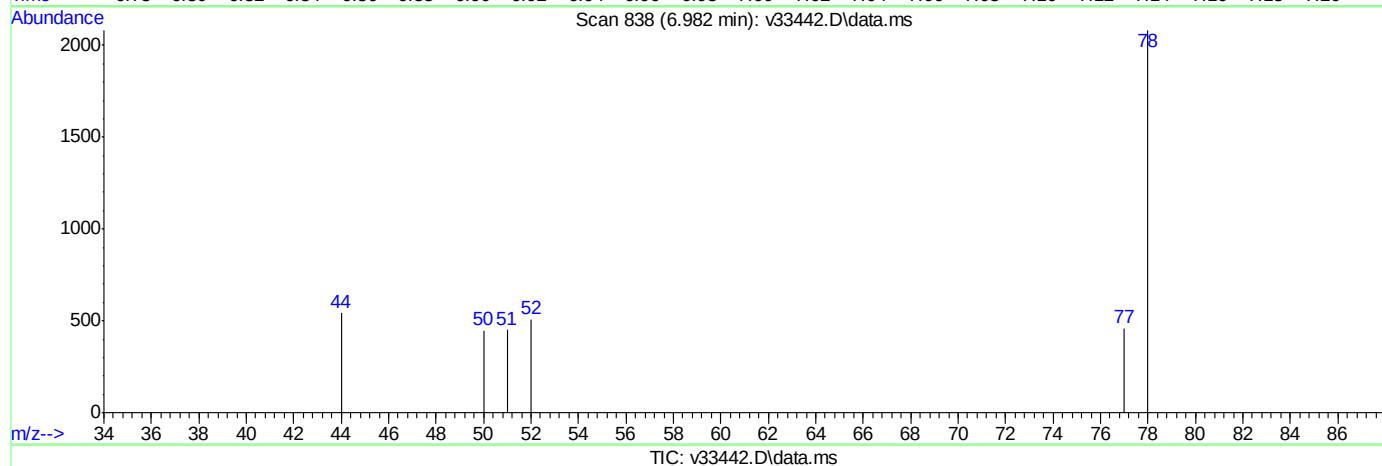
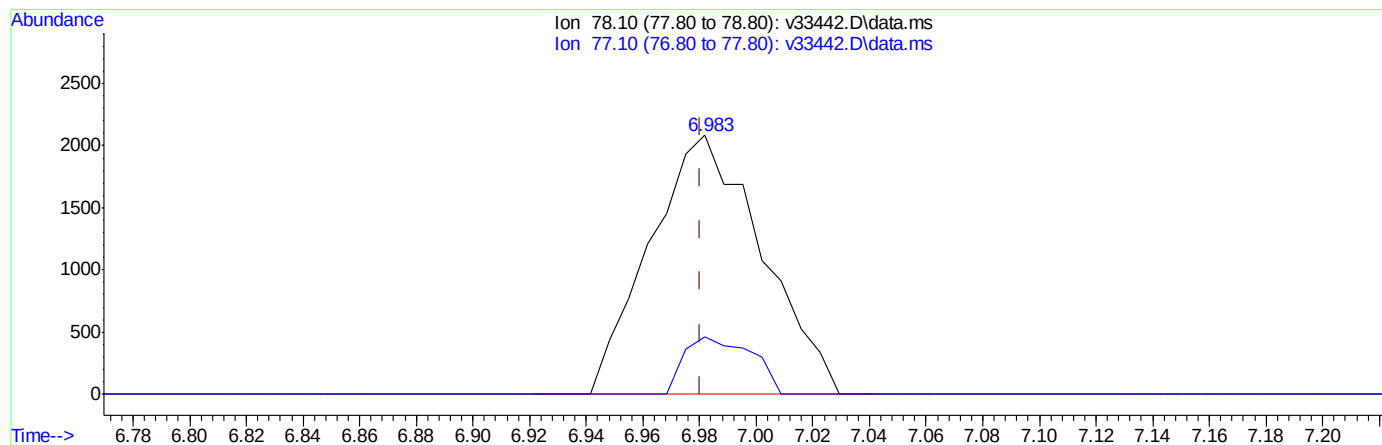
Quant Time: Aug 01 13:14:48 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33442.D
Acq On : 1 Aug 2014 9:27 am
Operator : amym
Sample : ic1226-0.5
Misc : MS32359,MSV1226,,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 01 13:11:43 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



(47) benzene (p)

6.983min (+0.003) 1.11ug/L

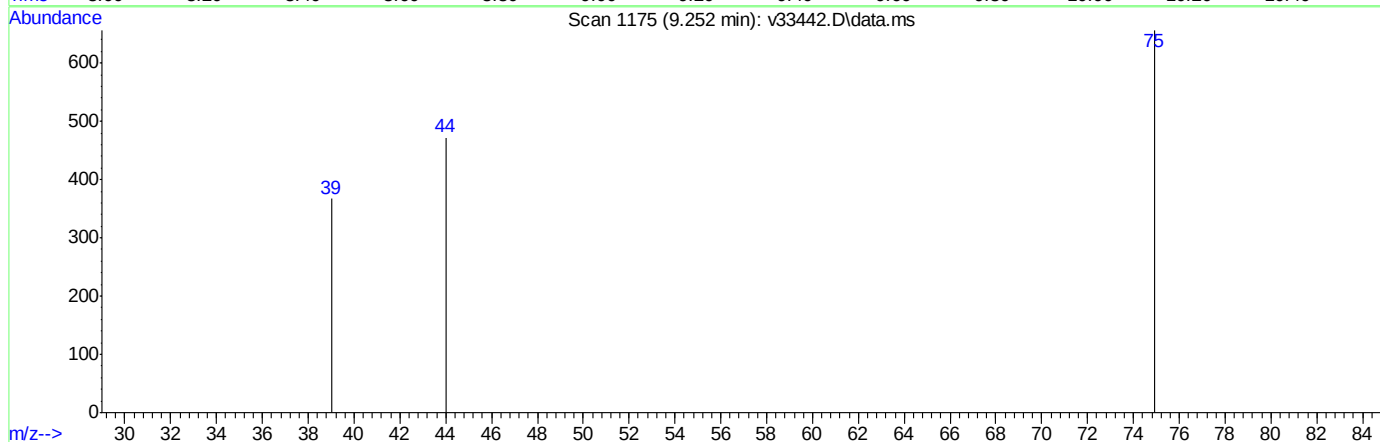
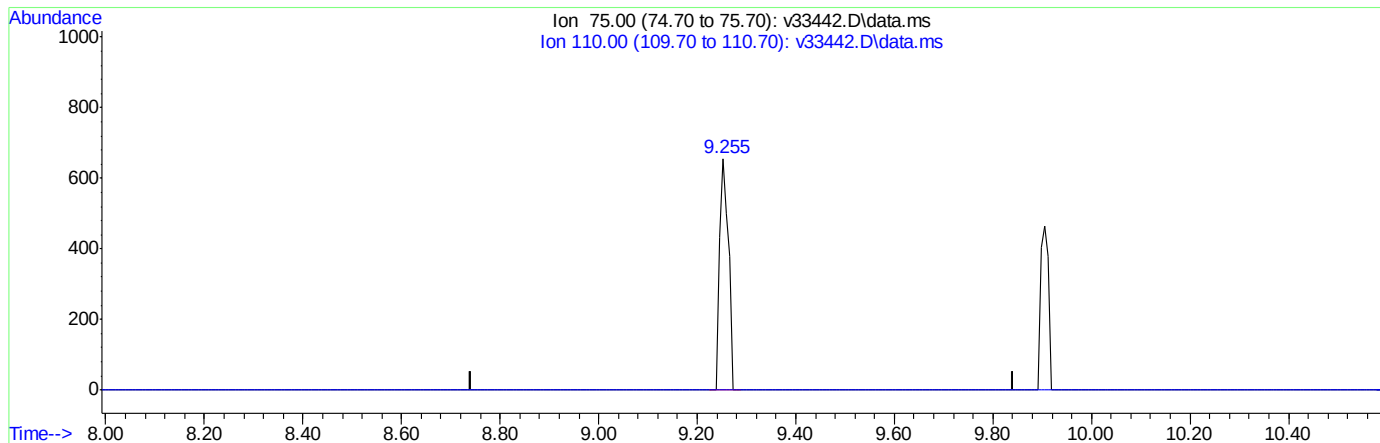
response 5706

Ion	Exp%	Act%
78.10	100	100
77.10	23.30	22.05
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33442.D
Acq On : 1 Aug 2014 9:27 am
Operator : amym
Sample : ic1226-0.5
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 01 13:11:43 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



TIC: v33442.D\data.ms

(59) cis-1,3-dichloropropene (p)

9.252min (+0.000) 0.54ug/L m

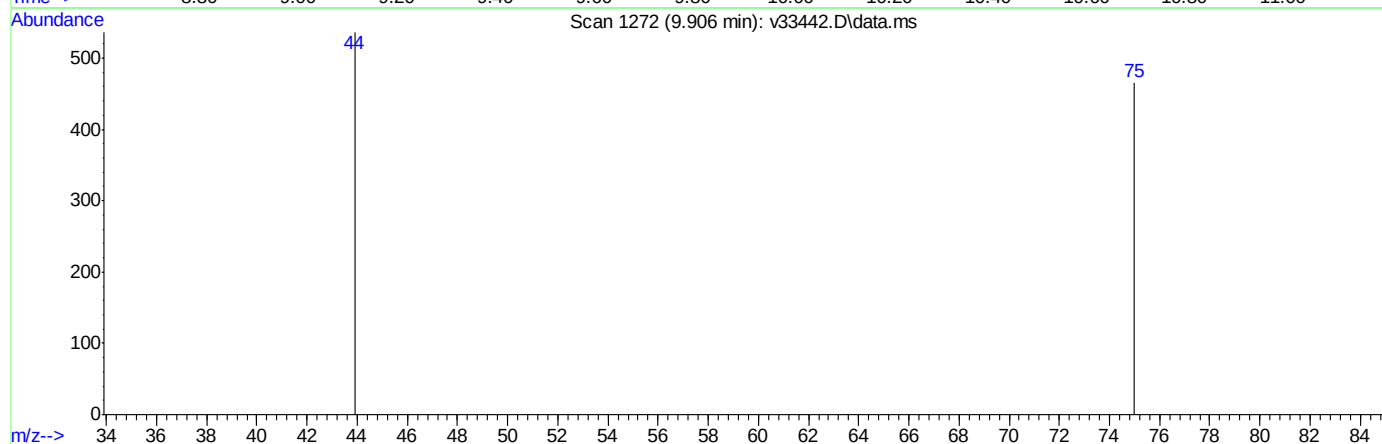
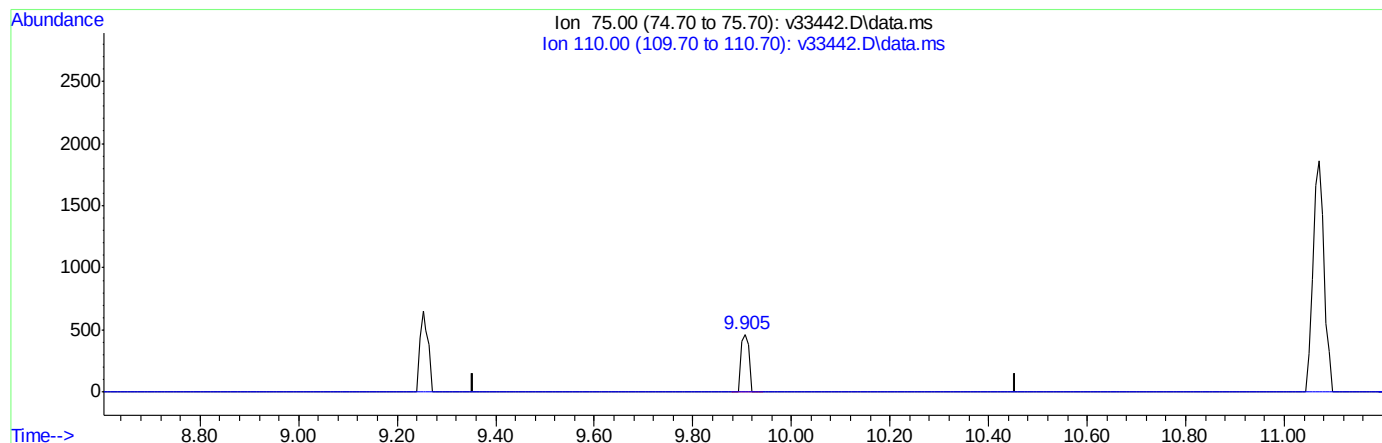
response 795

Ion	Exp%	Act%
75.00	100	100
110.00	25.10	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33442.D
Acq On : 1 Aug 2014 9:27 am
Operator : amym
Sample : ic1226-0.5
Misc : MS32359,MSV1226,,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 01 13:11:43 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



(63) trans-1,3-dichloropropene (p)

9.906min (+0.001) 0.48ug/L m

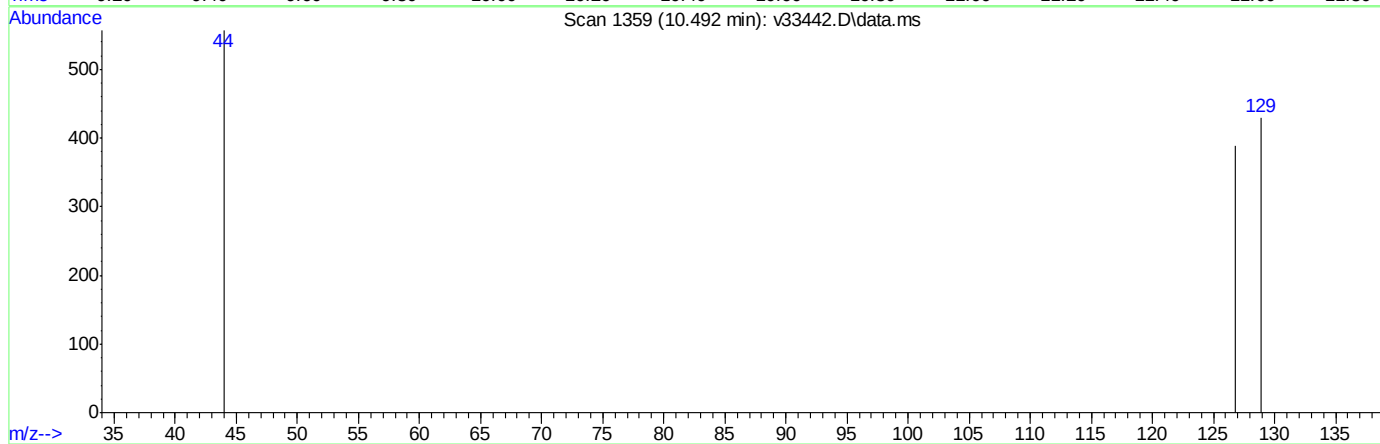
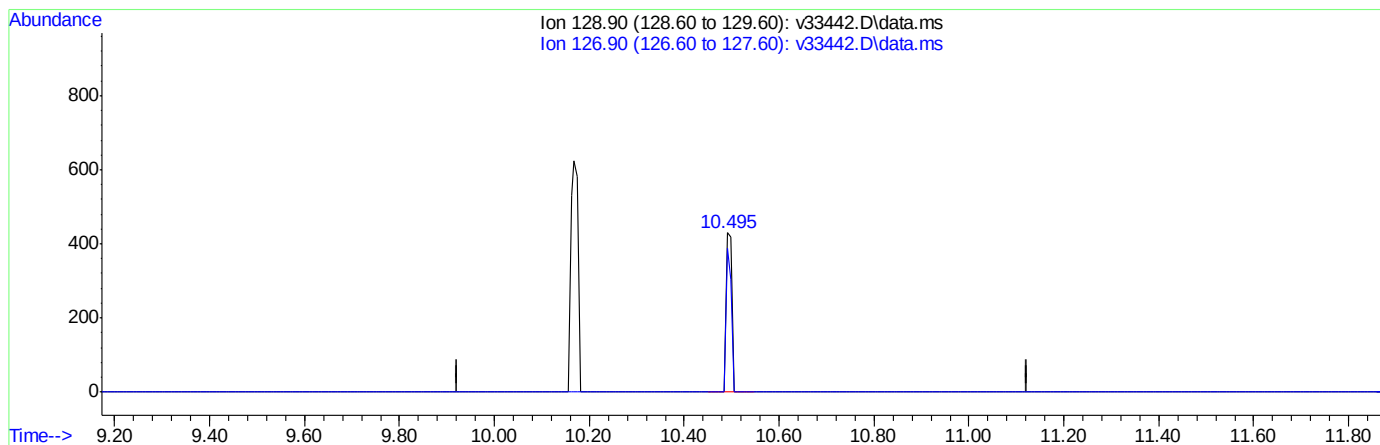
response 506

Ion	Exp%	Act%
75.00	100	100
110.00	24.80	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33442.D
Acq On : 1 Aug 2014 9:27 am
Operator : amym
Sample : ic1226-0.5
Misc : MS32359,MSV1226,,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 01 13:11:43 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



TIC: v33442.D\data.ms

(69) dibromochloromethane (p)

10.492min (-0.001) 0.33ug/L m

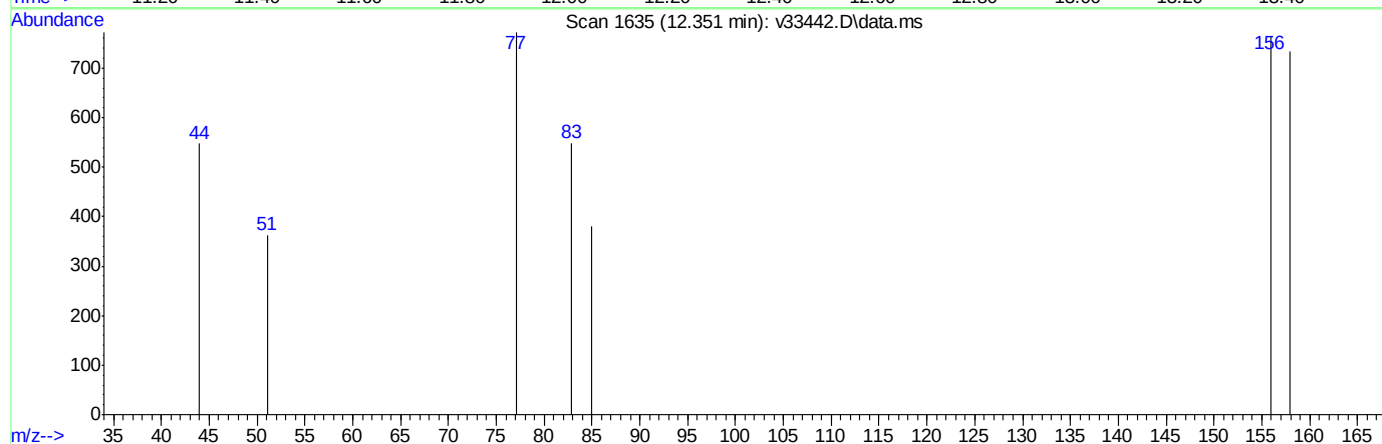
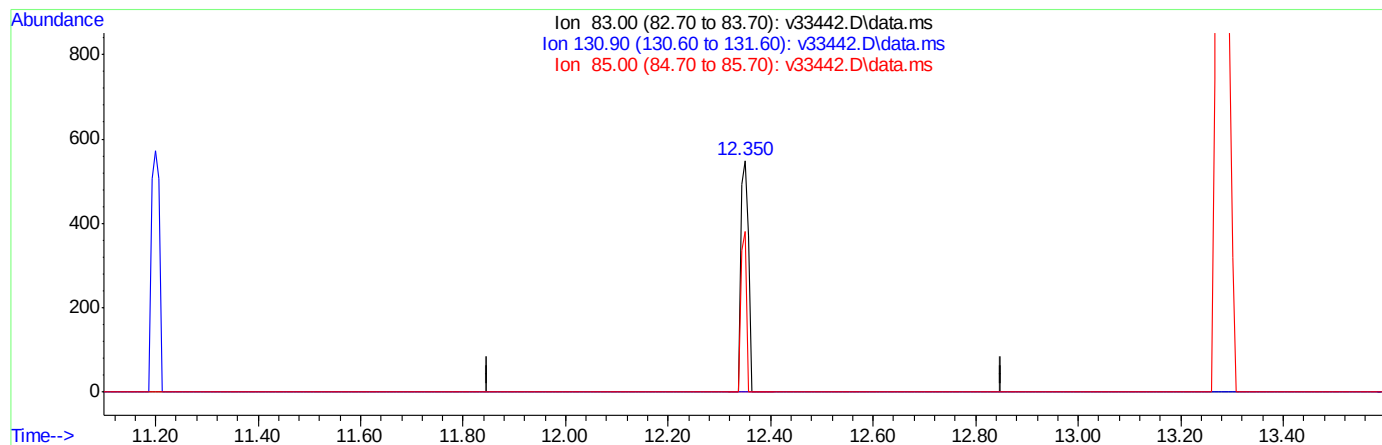
response 343

Ion	Exp%	Act%
128.90	100	100
126.90	76.70	90.47
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33442.D
Acq On : 1 Aug 2014 9:27 am
Operator : amym
Sample : ic1226-0.5
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 01 13:11:43 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



(84) 1,1,2,2-tetrachloroethane (P)

12.351min (+0.002) 0.66ug/L m

response 570

Ion	Exp%	Act%
83.00	100	100
130.90	12.80	0.00
85.00	66.90	69.22
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
 Data File : v33443.D
 Acq On : 1 Aug 2014 9:54 am
 Operator : amym
 Sample : ic1226-1
 Misc : MS32359,MSV1226,,,,5,1
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 01 13:18:02 2014
 Quant Method : C:\msdchem\1\METHODS\v140801w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Aug 01 13:11:19 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.493	65	44323	500.00	ug/L	# 0.00
4) pentafluorobenzene	6.537	168	170646	50.00	ug/L	0.00
43) 1,4-difluorobenzene	7.724	114	209947	50.00	ug/L	0.00
66) chlorobenzene-d5	11.069	82	81835	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	13.282	152	81388	50.00	ug/L	0.00

System Monitoring Compounds						
40) dibromofluoromethane (s)	0.000	113	0	0.00	ug/L	
Spiked Amount	50.000	Range	70 - 130	Recovery	=	0.00%#
60) toluene-d8 (s)	0.000	98	0	0.00	ug/L	
Spiked Amount	50.000	Range	70 - 130	Recovery	=	0.00%#
82) bromofluorobenzene (s)	0.000	95	0	0.00	ug/L	
Spiked Amount	50.000	Range	70 - 130	Recovery	=	0.00%#

Target Compounds				Qvalue		
5) dichlorodifluoromethane	1.478	85	7603m	1.02	ug/L	
6) chloromethane	1.589	50	4229	0.99	ug/L	91
7) vinyl chloride	1.705	62	4418	1.04	ug/L	96
8) bromomethane	1.989	96	2518	0.95	ug/L	98
9) chloroethane	2.081	64	1660	1.10	ug/L	# 44
10) ethyl ether	2.584	59	1410	1.02	ug/L	91
11) acetonitrile	3.271	41	3970	1.08	ug/L	# 33
12) trichlorofluoromethane	2.326	101	6448	1.03	ug/L	96
13) freon-113	2.886	101	1789	0.56	ug/L	# 72
15) 1,1-dichloroethene	2.842	96	1964	0.87	ug/L	# 80
18) methylene chloride	3.438	84	2431	1.08	ug/L	97
19) methyl tert butyl ether	3.809	73	4235	1.07	ug/L	47
21) allyl chloride	3.271	41	3970	1.08	ug/L	87
22) trans-1,2-dichloroethene	3.809	96	1914	0.92	ug/L	# 80
23) iodomethane	3.009	142	6199	1.09	ug/L	96
24) carbon disulfide	3.093	76	5407	0.78	ug/L	74
28) di-isopropyl ether	4.577	45	6562	0.99	ug/L	83
32) 1,1-dichloroethane	4.479	63	3667	0.97	ug/L	89
33) tert-butyl ethyl ether	5.240	59	3828	0.90	ug/L	# 41
34) isobutyl alcohol	4.551	43	5147	5.11	ug/L	47
36) cis-1,2-dichloroethene	5.503	96	1627	0.91	ug/L	# 77
39) chloroform	6.145	83	3167	1.00	ug/L	92
42) 1,1,1-trichloroethane	6.388	97	2235	0.74	ug/L	93
44) cyclohexane	6.520	56	5815	1.88	ug/L	# 27
45) carbon tetrachloride	6.644	117	1664	0.59	ug/L	91
46) 1,1-dichloropropene	6.658	75	1629	0.81	ug/L	# 38
47) benzene	6.979	78	6077	1.25	ug/L	100
48) 1,2-dichloroethane	7.105	62	1974	0.92	ug/L	83
49) tert-amyl methyl ether	7.266	73	1972	0.87	ug/L	82
50) heptane	7.541	43	1370	0.80	ug/L	# 69
51) trichloroethene	8.021	95	1226	0.85	ug/L	100
52) 1,2-dichloropropane	8.369	63	1114	0.80	ug/L	91
54) bromodichloromethane	8.725	83	1113	0.71	ug/L	93
59) cis-1,3-dichloropropene	9.252	75	978m	0.69	ug/L	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
 Data File : v33443.D
 Acq On : 1 Aug 2014 9:54 am
 Operator : amym
 Sample : ic1226-1
 Misc : MS32359,MSV1226,,,,,5,1
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 01 13:18:02 2014
 Quant Method : C:\msdchem\1\METHODS\v140801w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Aug 01 13:11:19 2014
 Response via : Initial Calibration

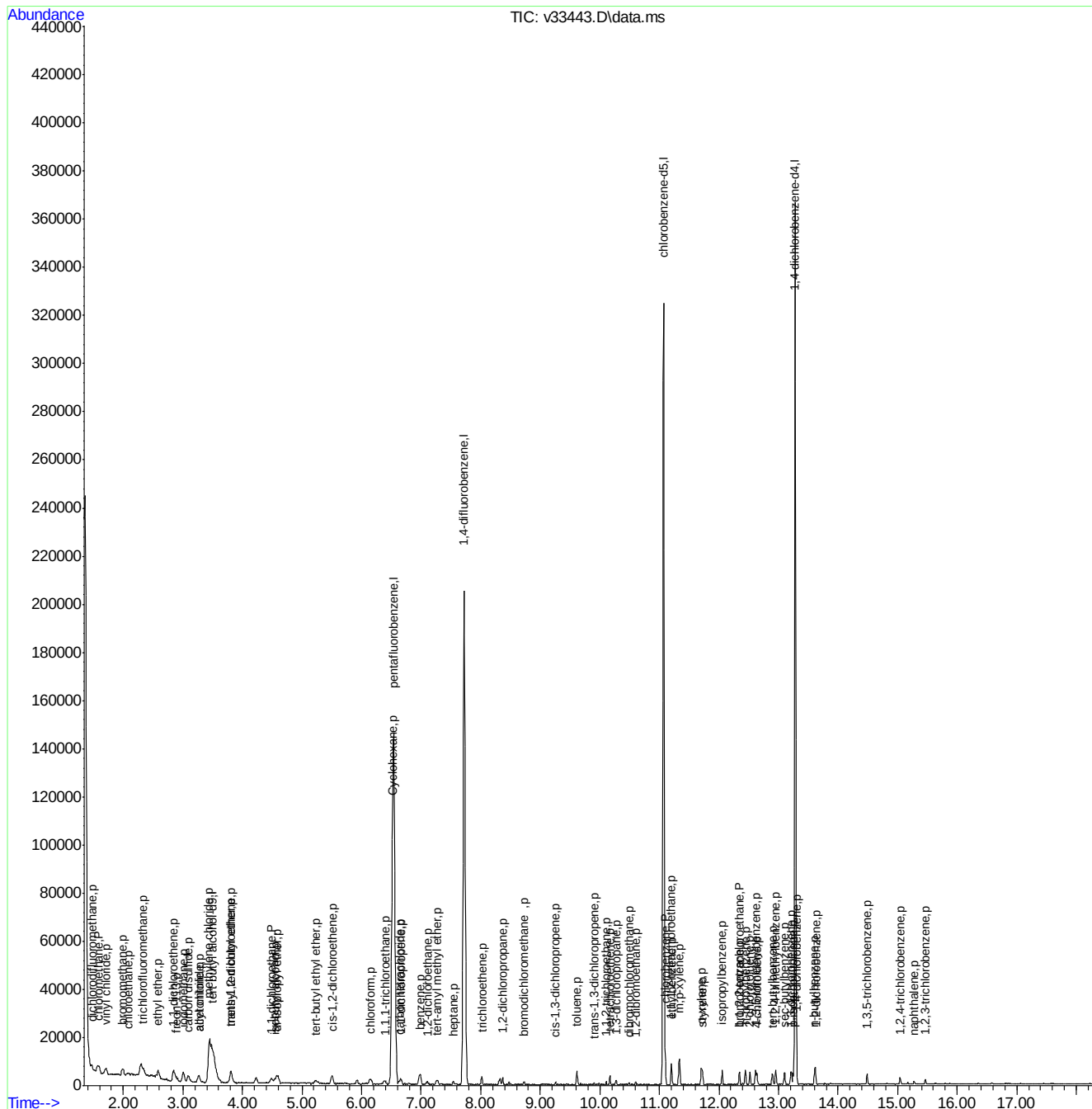
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
62) toluene	9.617	92	2646	1.01	ug/L	93
63) trans-1,3-dichloropropene	9.905	75	482m	0.48	ug/L	
64) 1,1,2-trichloroethane	10.107	83	461m	0.71	ug/L	
67) tetrachloroethene	10.169	166	1209	0.86	ug/L	87
68) 1,3-dichloropropane	10.273	76	1092	0.87	ug/L #	42
69) dibromochloromethane	10.491	129	449m	0.46	ug/L	
70) 1,2-dibromoethane	10.599	107	579m	0.70	ug/L	
72) chlorobenzene	11.098	112	3133	1.03	ug/L	99
73) 1,1,1,2-tetrachloroethane	11.199	131	677m	0.50	ug/L	
74) ethylbenzene	11.203	91	5085	0.95	ug/L	100
75) m,p-xylene	11.334	106	3784	1.84	ug/L	96
76) o-xylene	11.702	106	1892	0.90	ug/L	86
77) styrene	11.723	104	2710	0.85	ug/L	92
81) isopropylbenzene	12.053	105	4668	0.88	ug/L	99
83) bromobenzene	12.344	156	1308	1.00	ug/L	84
84) 1,1,2,2-tetrachloroethane	12.344	83	569m	0.69	ug/L	
86) n-propylbenzene	12.443	91	5399	0.92	ug/L	94
87) 2-chlorotoluene	12.522	91	3608	1.00	ug/L	100
88) 4-chlorotoluene	12.634	91	4172	1.01	ug/L	94
89) 1,3,5-trimethylbenzene	12.612	105	4263	0.91	ug/L	95
90) tert-butylbenzene	12.897	91	2001	0.80	ug/L	91
91) 1,2,4-trimethylbenzene	12.953	105	4263	0.91	ug/L	95
92) sec-butylbenzene	13.101	105	4373	0.81	ug/L	98
93) 1,3-dichlorobenzene	13.210	146	2773	1.11	ug/L	95
94) p-isopropyltoluene	13.242	119	4008	0.83	ug/L	99
95) 1,4-dichlorobenzene	13.304	146	2764	1.10	ug/L	96
96) 1,2-dichlorobenzene	13.622	146	2494	1.05	ug/L	94
97) n-butylbenzene	13.607	91	3595	0.89	ug/L	95
99) 1,3,5-trichlorobenzene	14.487	180	1898	1.06	ug/L	99
100) 1,2,4-trichlorobenzene	15.043	180	1300	0.90	ug/L	93
102) naphthalene	15.277	128	1556	0.72	ug/L	100
103) 1,2,3-trichlorobenzene	15.466	180	1080	0.92	ug/L	89

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

Quantitation Report (QT Reviewed)

```
Data Path   : C:\msdchem\1\DATA\V140801\
Data File   : v33443.D
Acq On      : 1 Aug 2014 9:54 am
Operator    : amym
Sample      : ic1226-1
Misc        : MS32359,MSV1226,,,,,5,1
ALS Vial    : 5 Sample Multiplier: 1
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Quant Time: Aug 01 13:18:02 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



v140801w.m Mon Aug 04 12:42:24 2014

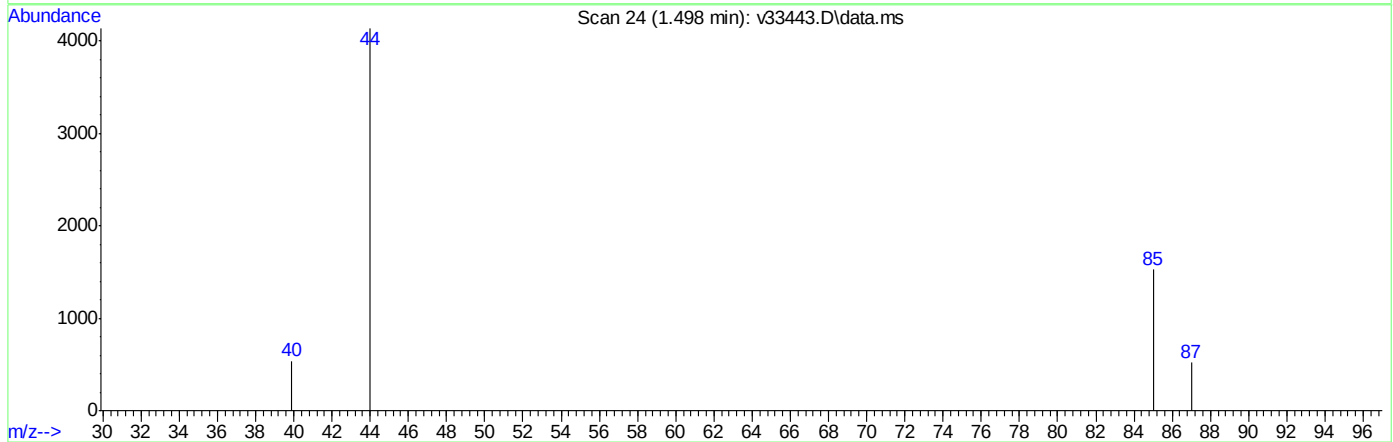
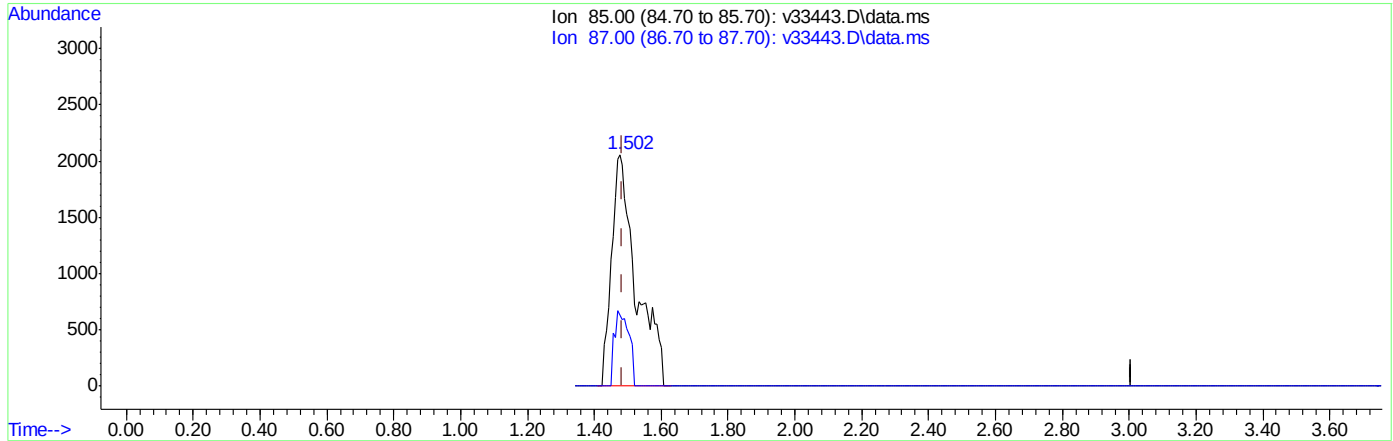
Page: 3

7.6.2

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33443.D
Acq On : 1 Aug 2014 9:54 am
Operator : amym
Sample : ic1226-1
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 01 13:11:46 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



TIC: v33443.D\data.ms

(5) dichlorodifluoromethane (p)

1.502min (+0.017) 1.37ug/L

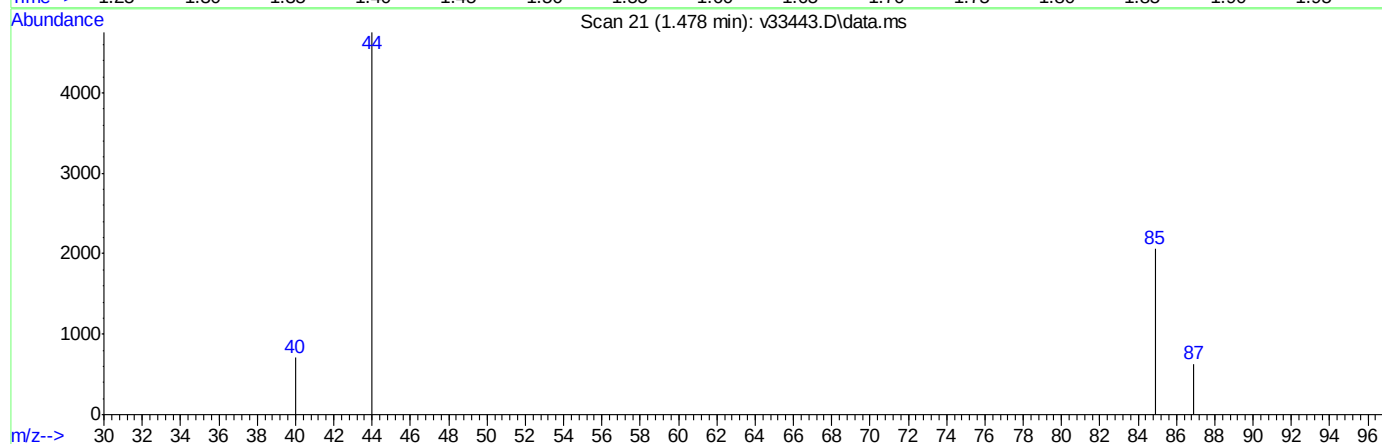
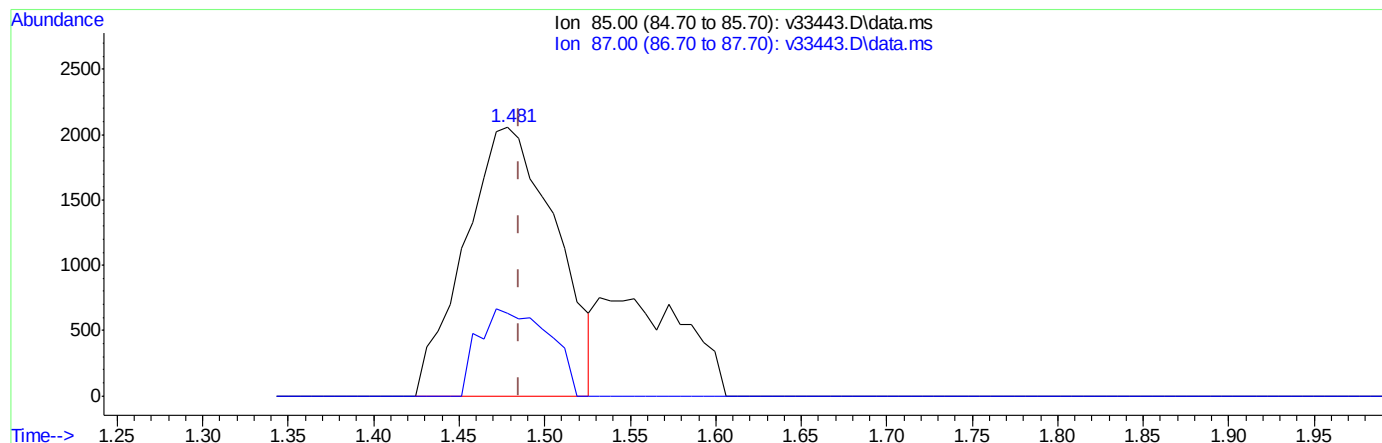
response 10282

Ion	Exp%	Act%
85.00	100	100
87.00	33.00	33.88
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33443.D
Acq On : 1 Aug 2014 9:54 am
Operator : amym
Sample : ic1226-1
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 01 13:11:46 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



TIC: v33443.D\data.ms

(5) dichlorodifluoromethane (p)

1.478min (-0.007) 1.02ug/L m

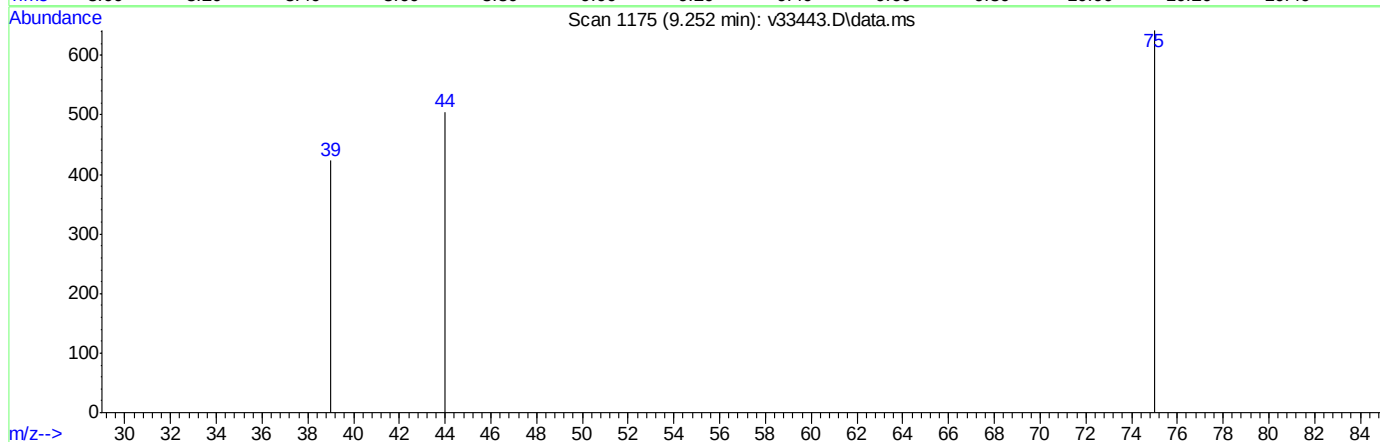
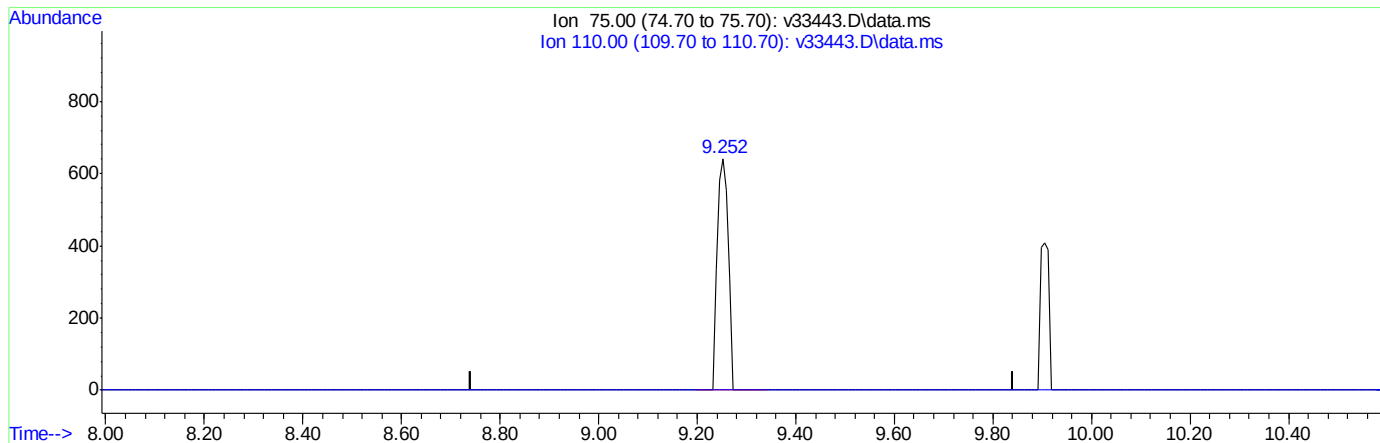
response 7603

Ion	Exp%	Act%
85.00	100	100
87.00	33.00	30.79
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33443.D
Acq On : 1 Aug 2014 9:54 am
Operator : amym
Sample : ic1226-1
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 01 13:11:46 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



TIC: v33443.D\data.ms

(59) cis-1,3-dichloropropene (p)

9.252min (-0.000) 0.69ug/L m

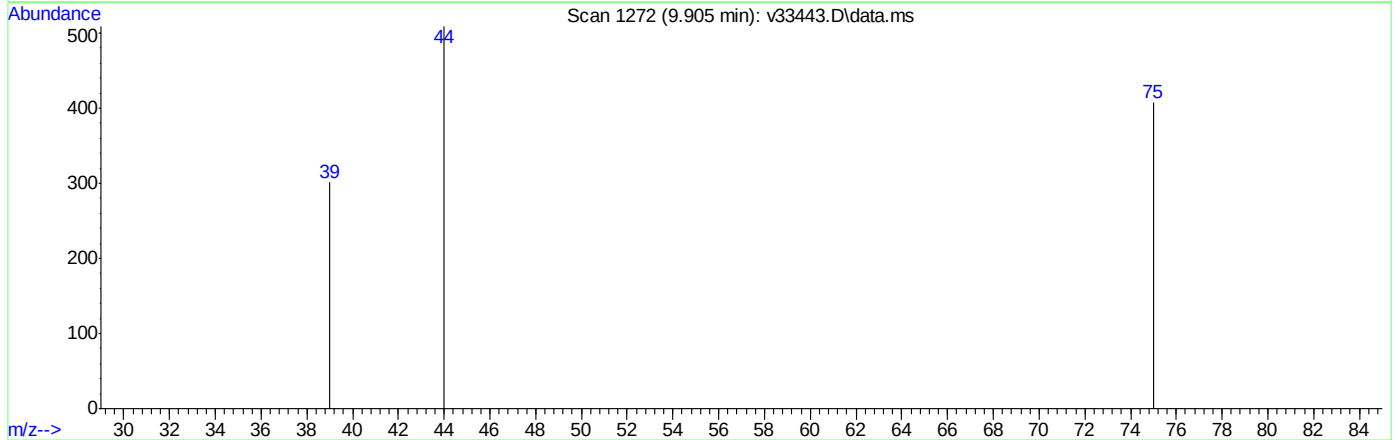
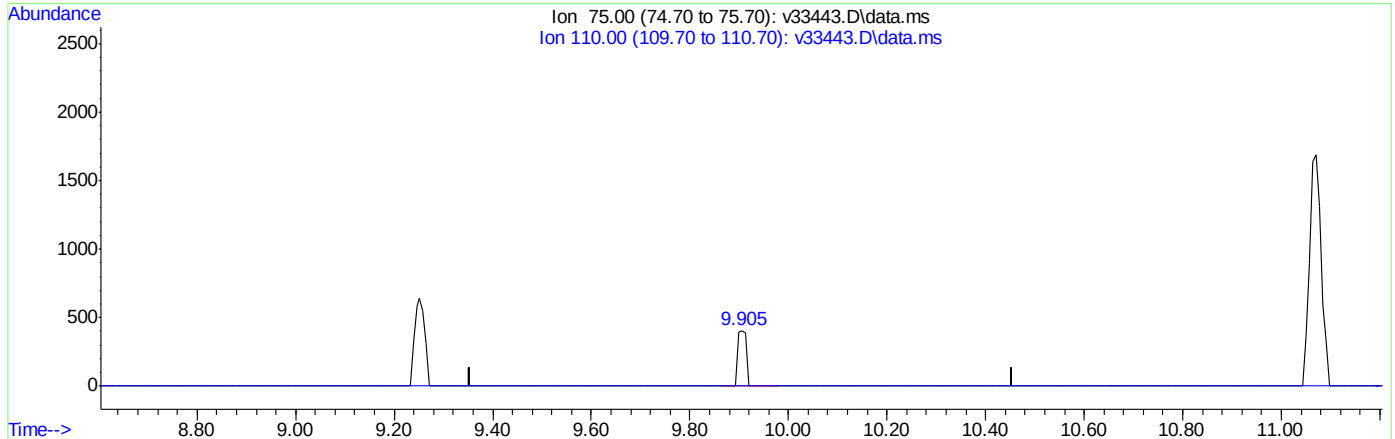
response 978

Ion	Exp%	Act%
75.00	100	100
110.00	25.10	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33443.D
Acq On : 1 Aug 2014 9:54 am
Operator : amym
Sample : ic1226-1
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 01 13:11:46 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



TIC: v33443.D\data.ms

(63) trans-1,3-dichloropropene (p)

9.905min (+0.000) 0.48ug/L m

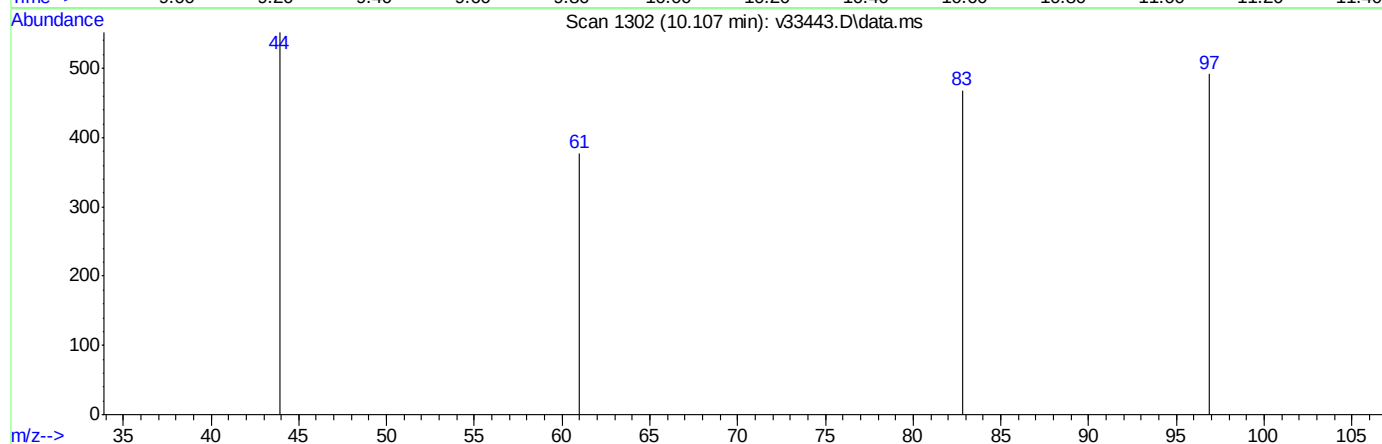
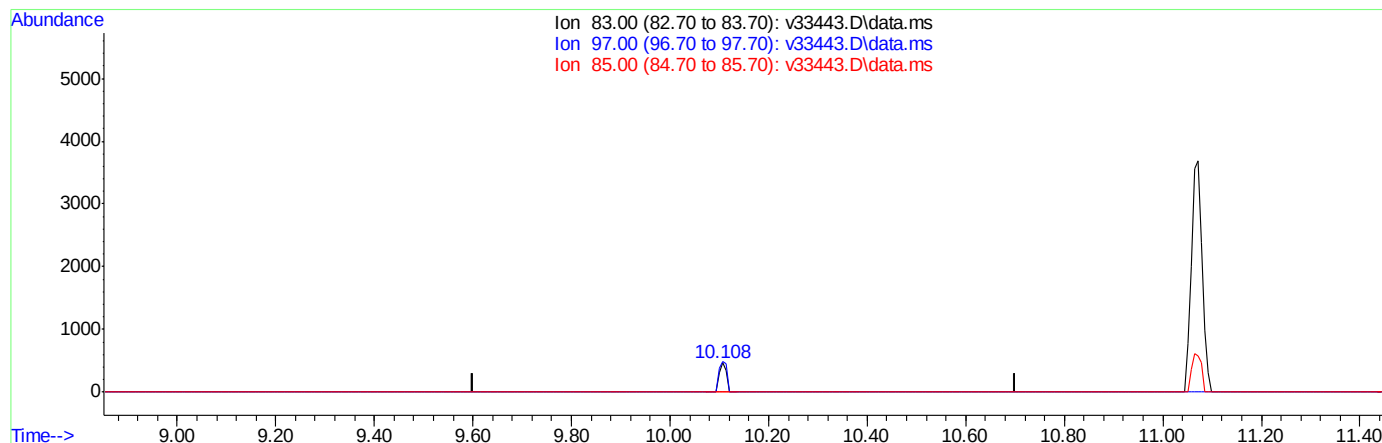
response 482

Ion	Exp%	Act%
75.00	100	100
110.00	24.80	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33443.D
Acq On : 1 Aug 2014 9:54 am
Operator : amym
Sample : ic1226-1
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 01 13:11:46 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



TIC: v33443.D\data.ms

(64) 1,1,2-trichloroethane (p)

10.107min (-0.004) 0.71ug/L m

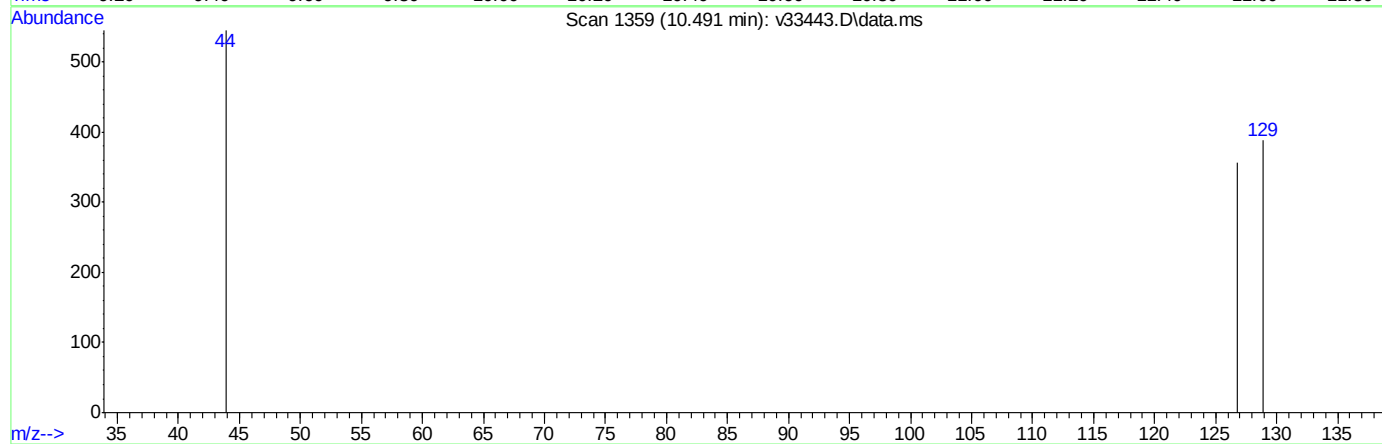
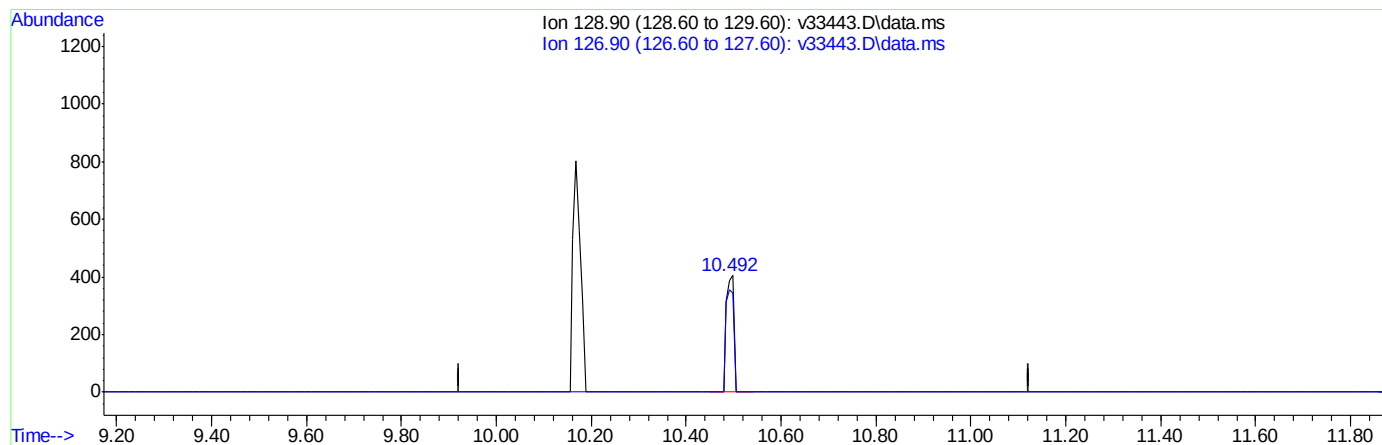
response 461

Ion	Exp%	Act%
83.00	100	100
97.00	119.50	105.13
85.00	66.90	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33443.D
Acq On : 1 Aug 2014 9:54 am
Operator : amym
Sample : ic1226-1
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 01 13:11:46 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



TIC: v33443.D\data.ms

(69) dibromochloromethane (p)

10.491min (-0.001) 0.46ug/L m

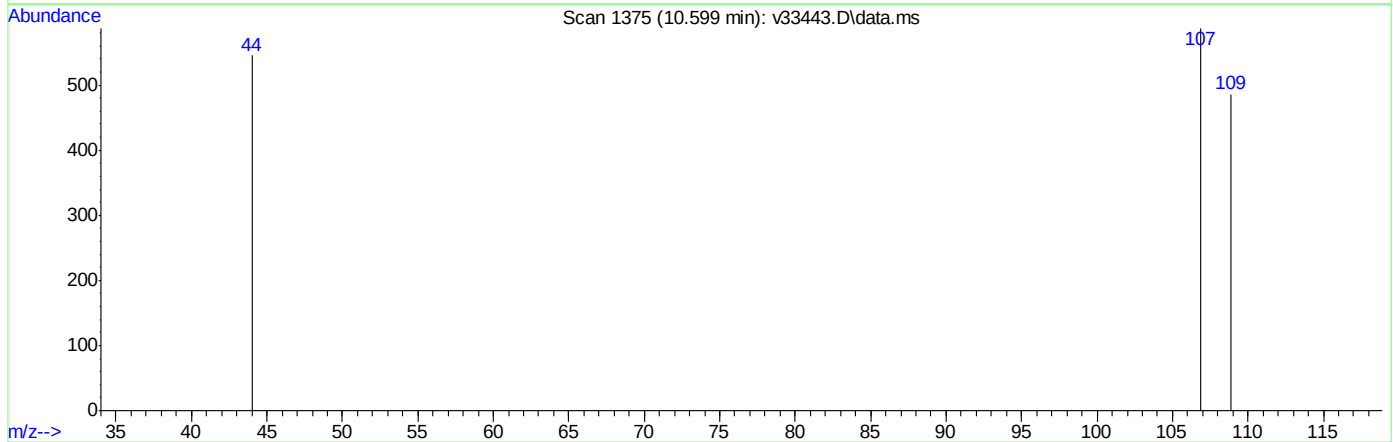
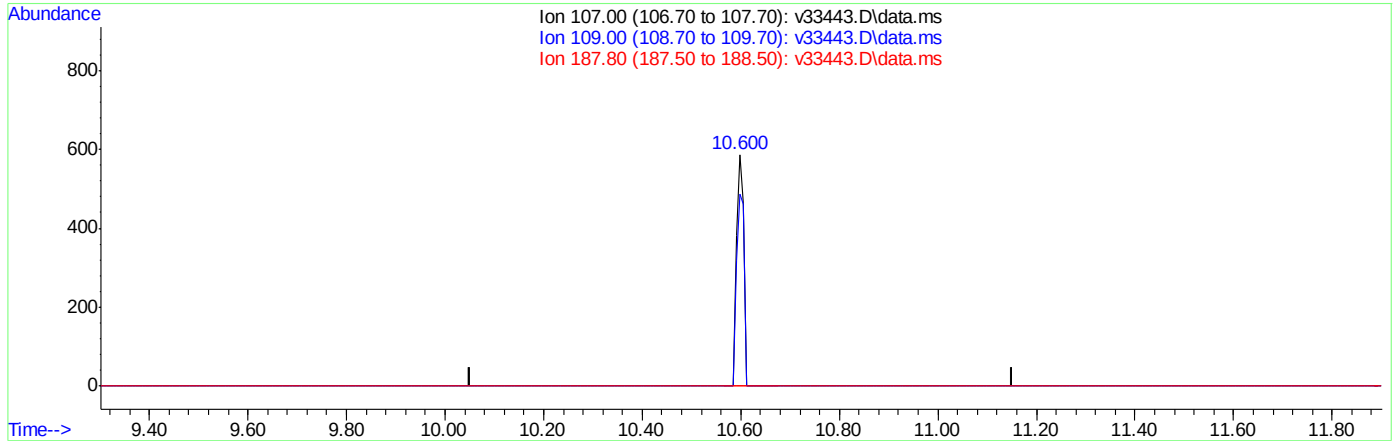
response 449

Ion	Exp%	Act%
128.90	100	100
126.90	76.70	91.75
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33443.D
Acq On : 1 Aug 2014 9:54 am
Operator : amym
Sample : ic1226-1
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 01 13:11:46 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



TIC: v33443.D\data.ms

(70) 1,2-dibromoethane (p)

10.599min (-0.003) 0.70ug/L m

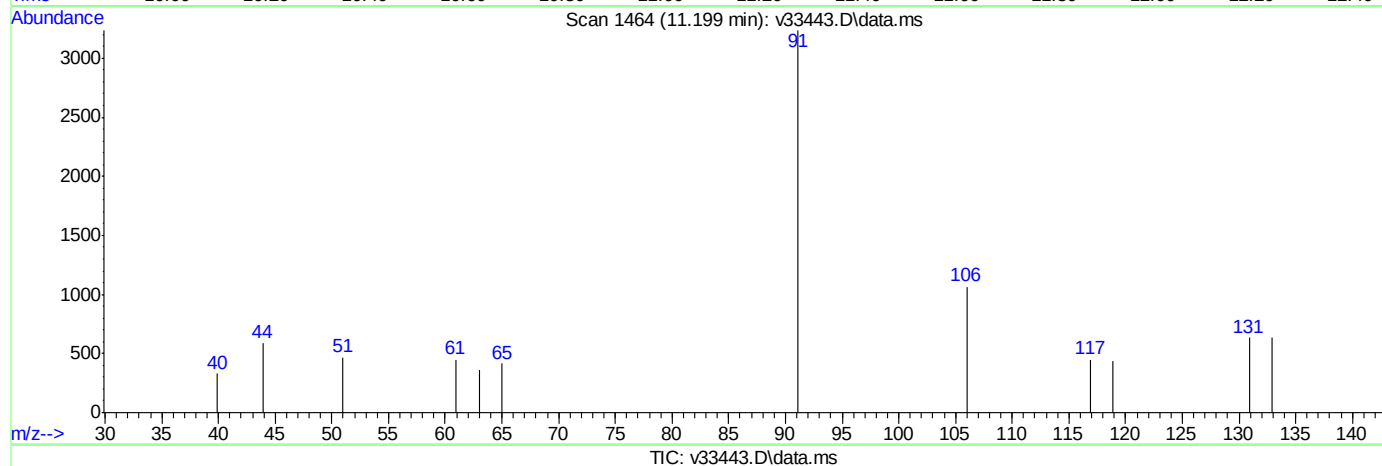
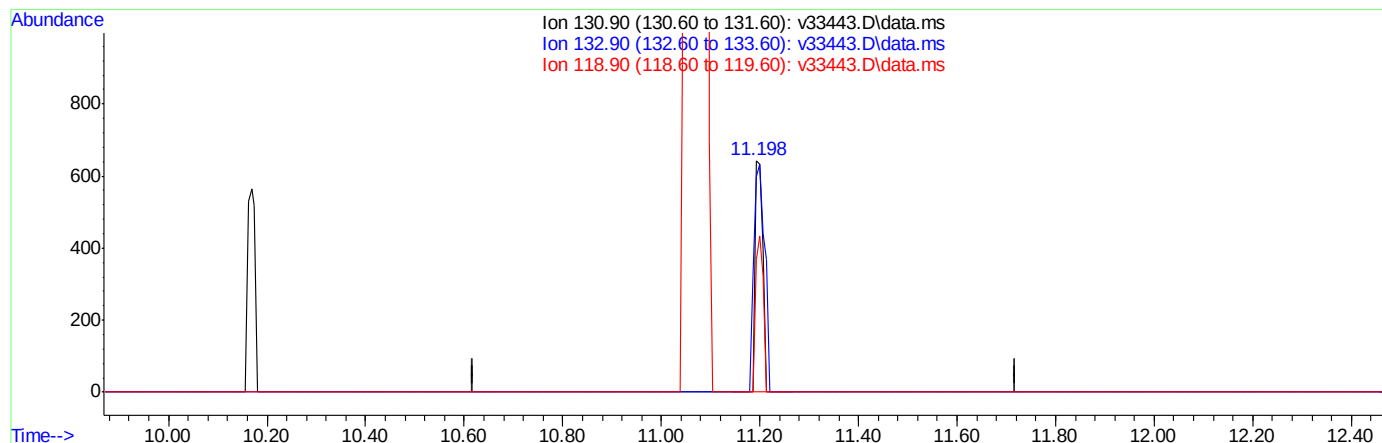
response 579

Ion	Exp%	Act%
107.00	100	100
109.00	97.00	82.79
187.80	2.70	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33443.D
Acq On : 1 Aug 2014 9:54 am
Operator : amym
Sample : ic1226-1
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 01 13:11:46 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



(73) 1,1,1,2-tetrachloroethane (p)

11.199min (-0.000) 0.50ug/L m

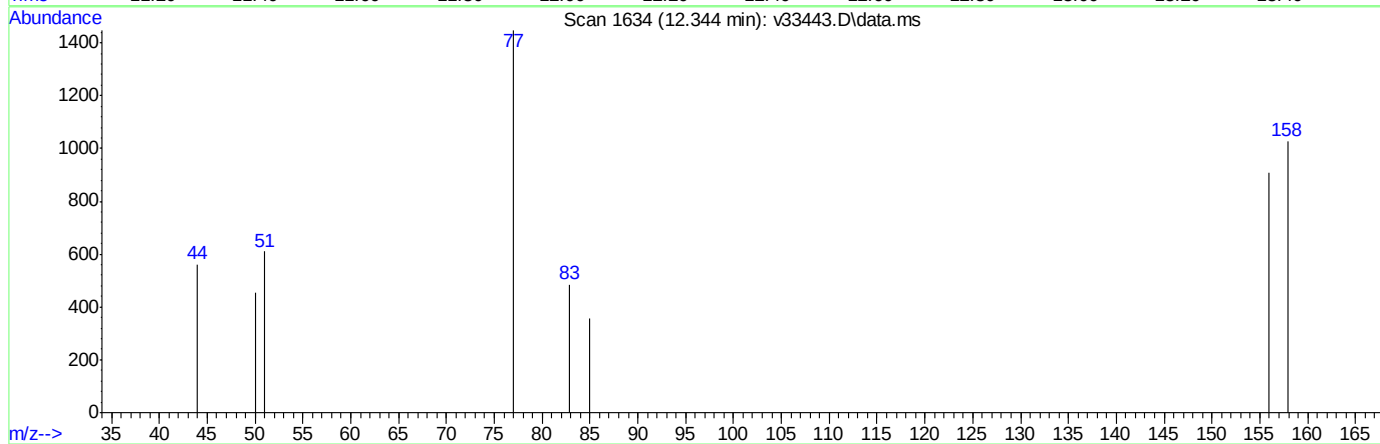
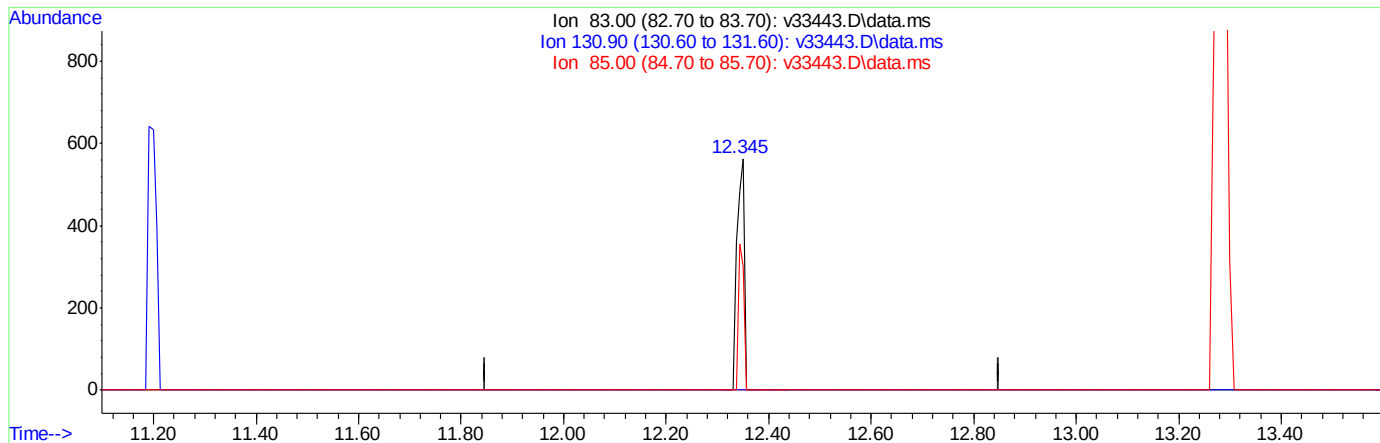
response 677

Ion	Exp%	Act%
130.90	100	100
132.90	94.50	99.68
118.90	62.80	68.45
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33443.D
Acq On : 1 Aug 2014 9:54 am
Operator : amym
Sample : ic1226-1
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 01 13:11:46 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



(84) 1,1,2,2-tetrachloroethane (P)

12.344min (-0.005) 0.69ug/L m

response 569

Ion	Exp%	Act%
83.00	100	100
130.90	12.80	0.00
85.00	66.90	73.35
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
 Data File : v33444.D
 Acq On : 1 Aug 2014 10:20 am
 Operator : amym
 Sample : ic1226-2
 Misc : MS32359,MSV1226,,,,5,1
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 01 13:20:07 2014
 Quant Method : C:\msdchem\1\METHODS\v140801w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Aug 01 13:11:19 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.495	65	44654	500.00	ug/L	# 0.00
4) pentafluorobenzene	6.538	168	167762	50.00	ug/L	0.00
43) 1,4-difluorobenzene	7.724	114	206215	50.00	ug/L	0.00
66) chlorobenzene-d5	11.069	82	80258	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	13.282	152	81374	50.00	ug/L	0.00

System Monitoring Compounds						
40) dibromofluoromethane (s)	0.000	113	0	0.00	ug/L	
Spiked Amount	50.000	Range	70 - 130	Recovery	=	0.00%#
60) toluene-d8 (s)	0.000	98	0	0.00	ug/L	
Spiked Amount	50.000	Range	70 - 130	Recovery	=	0.00%#
82) bromofluorobenzene (s)	0.000	95	0	0.00	ug/L	
Spiked Amount	50.000	Range	70 - 130	Recovery	=	0.00%#

Target Compounds						Qvalue
3) Ethanol	2.466	45	1735	243.20	ug/L	# 100
5) dichlorodifluoromethane	1.508	85	12898	1.75	ug/L	93
6) chloromethane	1.593	50	7407	1.76	ug/L	87
7) vinyl chloride	1.706	62	5920	1.41	ug/L	79
8) bromomethane	1.991	96	4867	1.87	ug/L	79
9) chloroethane	2.085	64	2416	1.63	ug/L	85
10) ethyl ether	2.584	59	2949	2.16	ug/L	93
11) acetonitrile	3.273	41	7533	2.08	ug/L	# 20
12) trichlorofluoromethane	2.326	101	7619	1.23	ug/L	98
13) freon-113	2.884	101	3484	1.10	ug/L	# 68
14) acrolein	2.730	56	1185	6.63	ug/L	92
15) 1,1-dichloroethene	2.842	96	4099	1.84	ug/L	92
17) Methyl Acetate	3.253	43	2261	2.34	ug/L	# 69
18) methylene chloride	3.438	84	5511	2.49	ug/L	99
19) methyl tert butyl ether	3.815	73	9172	2.37	ug/L	86
21) allyl chloride	3.273	41	7533	2.08	ug/L	99
22) trans-1,2-dichloroethene	3.809	96	4063	1.98	ug/L	92
23) iodomethane	3.011	142	12859	2.31	ug/L	99
24) carbon disulfide	3.094	76	10072	1.47	ug/L	97
26) vinyl acetate	4.557	43	10874	2.20	ug/L	94
27) chloroprene	4.594	53	4739	1.65	ug/L	95
28) di-isopropyl ether	4.580	45	14479	2.22	ug/L	98
31) Hexane	4.231	41	2350	1.20	ug/L	# 93
32) 1,1-dichloroethane	4.483	63	7932	2.14	ug/L	87
33) tert-butyl ethyl ether	5.243	59	9110	2.17	ug/L	93
34) isobutyl alcohol	4.557	43	10873	10.98	ug/L	75
35) 2,2-dichloropropane	5.519	77	2763	1.22	ug/L	52
36) cis-1,2-dichloroethene	5.503	96	3806	2.17	ug/L	82
37) ethyl acetate	4.557	43	10873m	2.20	ug/L	
38) bromochloromethane	5.927	128	1516	1.77	ug/L	91
39) chloroform	6.145	83	6791	2.19	ug/L	89
42) 1,1,1-trichloroethane	6.389	97	4525	1.52	ug/L	92
44) Cyclohexane	6.516	56	7117	2.34	ug/L	# 38
45) carbon tetrachloride	6.645	117	3496	1.26	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
 Data File : v33444.D
 Acq On : 1 Aug 2014 10:20 am
 Operator : amym
 Sample : ic1226-2
 Misc : MS32359,MSV1226,,,,,5,1
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 01 13:20:07 2014
 Quant Method : C:\msdchem\1\METHODS\v140801w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Aug 01 13:11:19 2014
 Response via : Initial Calibration

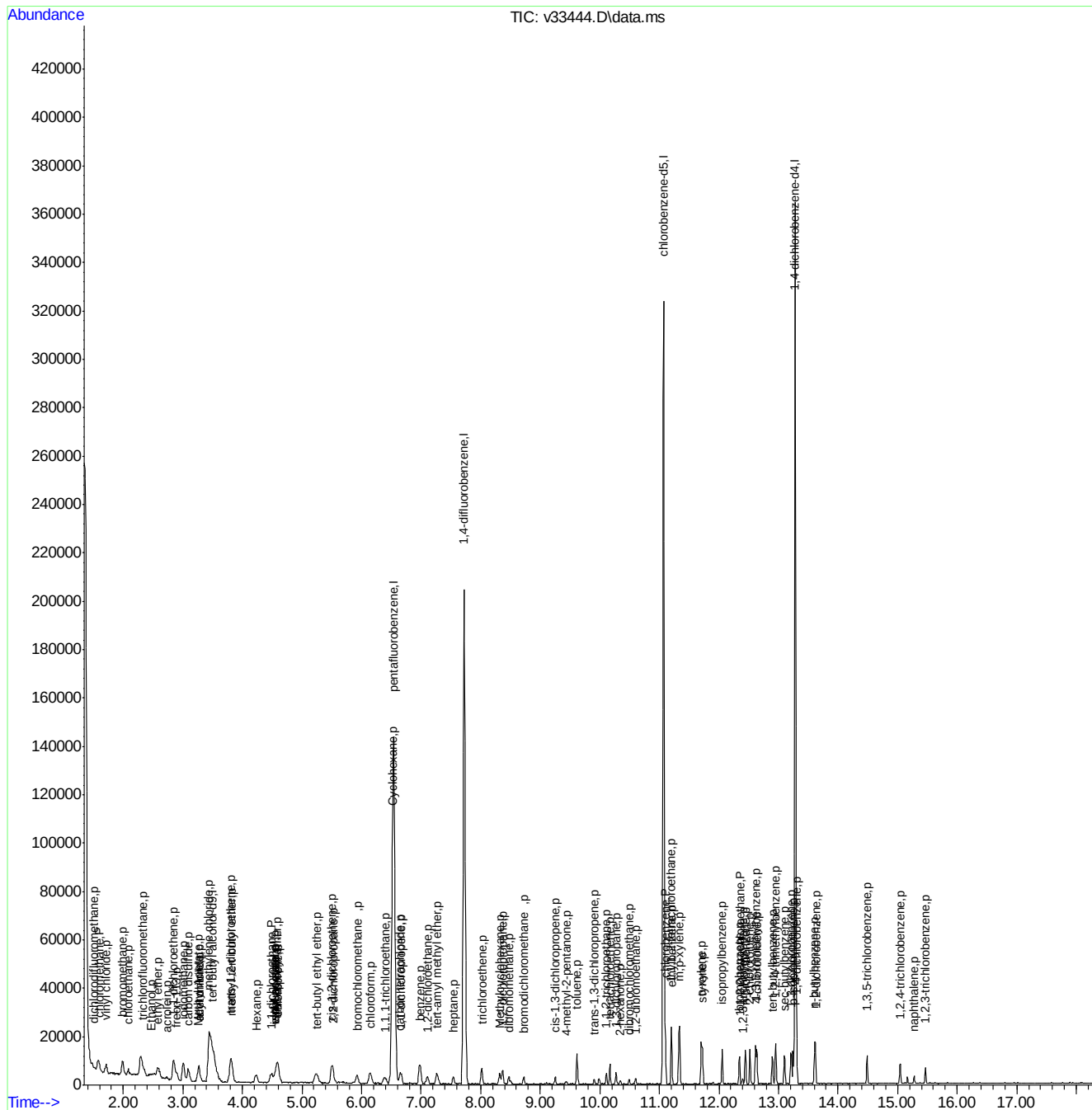
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) 1,1-dichloropropene	6.660	75	3052	1.55	ug/L #	68
47) benzene	6.980	78	11215	2.35	ug/L	96
48) 1,2-dichloroethane	7.106	62	4517	2.15	ug/L	83
49) tert-amyl methyl ether	7.268	73	4589	2.07	ug/L	94
50) heptane	7.542	43	2169	1.30	ug/L	93
51) trichloroethene	8.017	95	2933	2.08	ug/L	94
52) 1,2-dichloropropane	8.367	63	2881	2.11	ug/L	91
53) dibromomethane	8.471	93	1262	1.78	ug/L	96
54) bromodichloromethane	8.723	83	2823	1.85	ug/L	92
55) Methylcyclohexane	8.319	83	2236	1.16	ug/L	98
59) cis-1,3-dichloropropene	9.251	75	2245	1.62	ug/L	50
61) 4-methyl-2-pentanone	9.437	43	1311	1.65	ug/L #	49
62) toluene	9.616	92	5375	2.09	ug/L	97
63) trans-1,3-dichloropropene	9.905	75	1377	1.41	ug/L	50
64) 1,1,2-trichloroethane	10.109	83	1312	2.05	ug/L	91
67) tetrachloroethene	10.170	166	2324	1.69	ug/L	95
68) 1,3-dichloropropane	10.273	76	2735	2.22	ug/L	95
69) dibromochloromethane	10.492	129	1346	1.39	ug/L	76
70) 1,2-dibromoethane	10.601	107	1578	1.96	ug/L	97
71) 2-hexanone	10.346	43	1043	1.30	ug/L #	32
72) chlorobenzene	11.099	112	6657	2.23	ug/L	96
73) 1,1,1,2-tetrachloroethane	11.198	131	2005	1.51	ug/L	94
74) ethylbenzene	11.204	91	10670	2.03	ug/L	98
75) m,p-xylene	11.334	106	8169	4.05	ug/L	96
76) o-xylene	11.701	106	4174	2.02	ug/L	98
77) styrene	11.723	104	6173	1.98	ug/L	95
81) isopropylbenzene	12.054	105	9317	1.76	ug/L	97
83) bromobenzene	12.344	156	2722	2.09	ug/L	96
84) 1,1,2,2-tetrachloroethane	12.348	83	1535	1.86	ug/L	90
85) 1,2,3-trichloropropane	12.397	75	1448	1.52	ug/L	97
86) n-propylbenzene	12.443	91	10808	1.84	ug/L	96
87) 2-chlorotoluene	12.521	91	7790	2.15	ug/L	96
88) 4-chlorotoluene	12.634	91	8580	2.08	ug/L	98
89) 1,3,5-trimethylbenzene	12.612	105	8596	1.83	ug/L	96
90) tert-butylbenzene	12.897	91	3980	1.60	ug/L	96
91) 1,2,4-trimethylbenzene	12.953	105	9238	1.97	ug/L	99
92) sec-butylbenzene	13.101	105	8472	1.58	ug/L	100
93) 1,3-dichlorobenzene	13.209	146	5682	2.28	ug/L	97
94) p-isopropyltoluene	13.243	119	8018	1.65	ug/L	95
95) 1,4-dichlorobenzene	13.304	146	5738	2.29	ug/L	98
96) 1,2-dichlorobenzene	13.621	146	5600	2.35	ug/L	97
97) n-butylbenzene	13.607	91	6862	1.70	ug/L	100
99) 1,3,5-trichlorobenzene	14.488	180	3804	2.13	ug/L	90
100) 1,2,4-trichlorobenzene	15.043	180	3173	2.19	ug/L	90
102) naphthalene	15.277	128	3813	1.76	ug/L	100
103) 1,2,3-trichlorobenzene	15.465	180	2348	1.99	ug/L	96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33444.D
Acq On : 1 Aug 2014 10:20 am
Operator : amym
Sample : ic1226-2
Misc : MS32359,MSV1226,,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 01 13:20:07 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



v140801w.m Mon Aug 04 12:42:29 2014

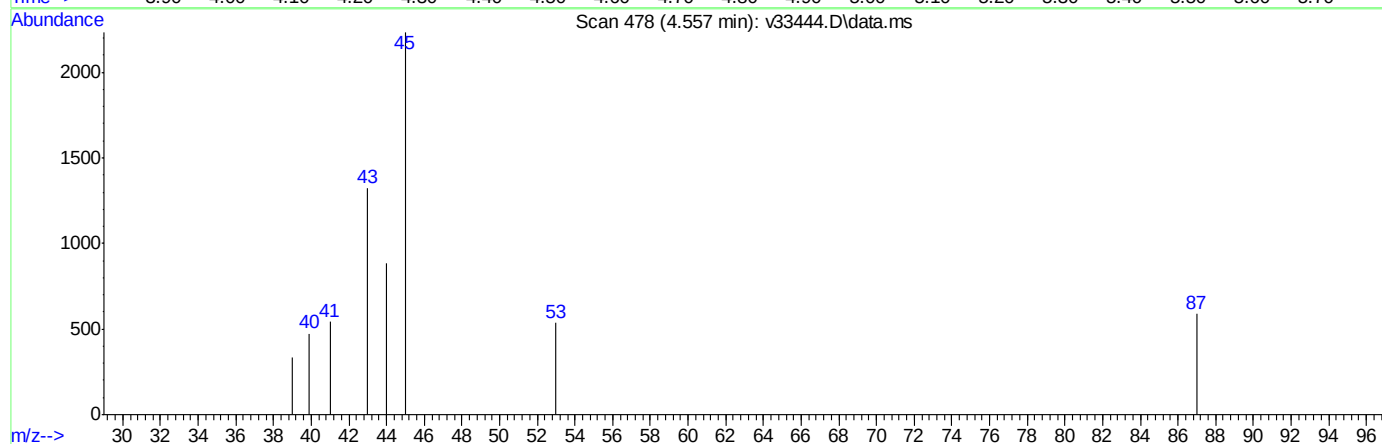
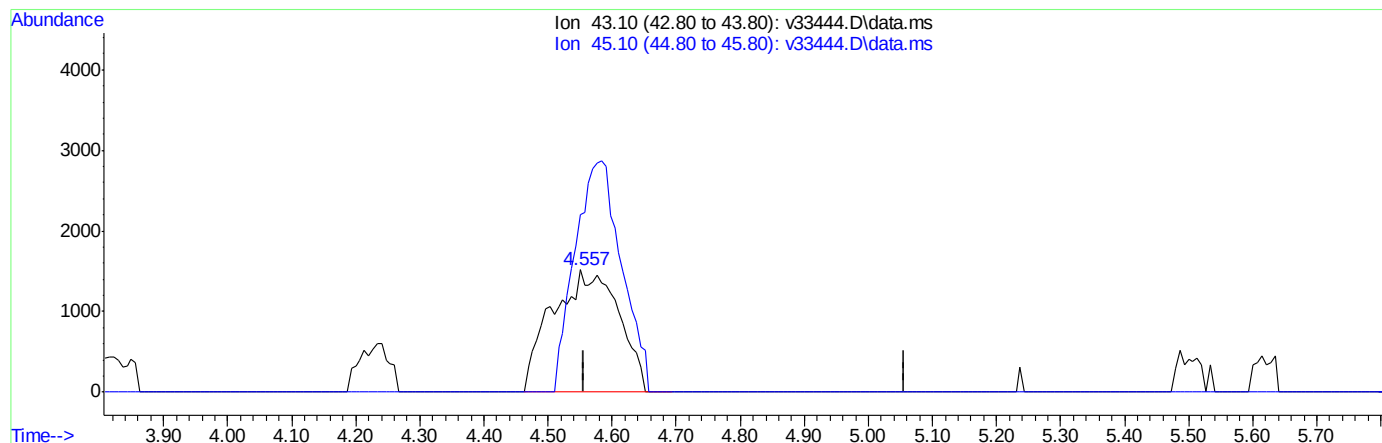
Page: 3

7.6.3

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33444.D
Acq On : 1 Aug 2014 10:20 am
Operator : amym
Sample : ic1226-2
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 01 13:11:49 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



TIC: v33444.D\data.ms

(37) ethyl acetate (p)

4.557min (-0.000) 2.20ug/L m

response 10873

Ion	Exp%	Act%
43.10	100	100
45.10	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
 Data File : v33445.D
 Acq On : 1 Aug 2014 10:46 am
 Operator : amym
 Sample : ic1226-5
 Misc : MS32359,MSV1226,,,,5,1
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 01 13:23:07 2014
 Quant Method : C:\msdchem\1\METHODS\v140801w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Aug 01 13:11:19 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.500	65	46841	500.00	ug/L	# 0.00
4) pentafluorobenzene	6.541	168	176221	50.00	ug/L	0.00
43) 1,4-difluorobenzene	7.726	114	215912	50.00	ug/L	0.00
66) chlorobenzene-d5	11.069	82	83533	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	13.282	152	84819	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	6.420	113	8337	4.48	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	8.96%#		
60) toluene-d8 (s)	9.541	98	18591	4.56	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	9.12%#		
82) bromofluorobenzene (s)	12.219	95	7163	4.79	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	9.58%#		
Target Compounds						
2) tertiary butyl alcohol	3.598	59	3204	40.68	ug/L	# 61
3) Ethanol	2.487	45	4914	656.66	ug/L	# 100
5) dichlorodifluoromethane	1.485	85	43513m	5.63	ug/L	
6) chloromethane	1.597	50	24266	5.48	ug/L	95
7) vinyl chloride	1.712	62	24080	5.47	ug/L	92
8) bromomethane	1.997	96	15182	5.56	ug/L	90
9) chloroethane	2.093	64	9200	5.90	ug/L	93
10) ethyl ether	2.590	59	8529	5.96	ug/L	94
11) acetonitrile	3.276	41	18179	4.78	ug/L	# 27
12) trichlorofluoromethane	2.331	101	36410	5.61	ug/L	98
13) freon-113	2.893	101	13463	4.06	ug/L	84
14) acrolein	2.738	56	4769	25.41	ug/L	92
15) 1,1-dichloroethene	2.849	96	11767	5.03	ug/L	96
16) acetone	2.883	58	1259	3.85	ug/L	# 65
17) Methyl Acetate	3.263	43	5404	5.33	ug/L	# 69
18) methylene chloride	3.444	84	12593	5.41	ug/L	87
19) methyl tert butyl ether	3.819	73	20689	5.08	ug/L	90
20) acrylonitrile	3.748	53	2447	4.26	ug/L	83
21) allyl chloride	3.276	41	18181	4.78	ug/L	93
22) trans-1,2-dichloroethene	3.815	96	10824	5.03	ug/L	91
23) iodomethane	3.016	142	31033	5.30	ug/L	100
24) carbon disulfide	3.099	76	28576	3.98	ug/L	96
26) vinyl acetate	4.561	43	24371	4.69	ug/L	94
27) chloroprene	4.600	53	13690	4.54	ug/L	98
28) di-isopropyl ether	4.584	45	32983	4.81	ug/L	97
29) methacrylonitrile	5.890	41	2813	4.02	ug/L	# 70
31) Hexane	4.232	41	9091	4.43	ug/L	# 91
32) 1,1-dichloroethane	4.487	63	19704	5.06	ug/L	100
33) tert-butyl ethyl ether	5.248	59	20564	4.67	ug/L	98
34) isobutyl alcohol	4.561	43	24371	23.42	ug/L	93
35) 2,2-dichloropropane	5.522	77	8927	3.76	ug/L	99
36) cis-1,2-dichloroethene	5.507	96	9488	5.16	ug/L	98
37) ethyl acetate	4.564	43	24370m	4.68	ug/L	
38) bromochloromethane	5.930	128	4165	4.62	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
 Data File : v33445.D
 Acq On : 1 Aug 2014 10:46 am
 Operator : amym
 Sample : ic1226-5
 Misc : MS32359,MSV1226,,,,5,1
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 01 13:23:07 2014
 Quant Method : C:\msdchem\1\METHODS\v140801w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Aug 01 13:11:19 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) chloroform	6.148	83	16578	5.08	ug/L	88
41) Tetrahydrofuran	5.938	42	148m	0.59	ug/L	
42) 1,1,1-trichloroethane	6.393	97	12855	4.11	ug/L	98
44) Cyclohexane	6.508	56	16228	5.11	ug/L #	88
45) carbon tetrachloride	6.648	117	10468	3.60	ug/L	85
46) 1,1-dichloropropene	6.663	75	9406	4.57	ug/L	91
47) benzene	6.983	78	25996	5.20	ug/L	99
48) 1,2-dichloroethane	7.107	62	11221	5.11	ug/L	83
49) tert-amyl methyl ether	7.272	73	10664	4.60	ug/L	95
50) heptane	7.544	43	7128	4.07	ug/L	97
51) trichloroethene	8.019	95	7337	4.96	ug/L	97
52) 1,2-dichloropropane	8.369	63	7082	4.96	ug/L	91
53) dibromomethane	8.473	93	3641	4.90	ug/L	96
54) bromodichloromethane	8.725	83	6746	4.21	ug/L	94
55) Methylcyclohexane	8.323	83	7971	3.96	ug/L #	95
56) 2-chloroethyl vinyl ether	9.101	63	1520	3.97	ug/L #	46
57) methyl methacrylate	8.502	69	1454	3.59	ug/L #	76
59) cis-1,3-dichloropropene	9.253	75	5637	3.89	ug/L	95
61) 4-methyl-2-pentanone	9.437	43	3461	4.16	ug/L #	49
62) toluene	9.617	92	13545	5.04	ug/L	98
63) trans-1,3-dichloropropene	9.905	75	3667	3.58	ug/L	93
64) 1,1,2-trichloroethane	10.110	83	3193	4.76	ug/L	96
65) ethyl methacrylate	9.988	69	2897	3.37	ug/L	87
67) tetrachloroethene	10.170	166	6450	4.51	ug/L	90
68) 1,3-dichloropropane	10.273	76	6452	5.04	ug/L	96
69) dibromochloromethane	10.493	129	3732	3.71	ug/L	96
70) 1,2-dibromoethane	10.602	107	3752	4.47	ug/L	98
71) 2-hexanone	10.348	43	3088	3.69	ug/L	95
72) chlorobenzene	11.099	112	15835	5.09	ug/L	98
73) 1,1,1,2-tetrachloroethane	11.199	131	5290	3.83	ug/L	97
74) ethylbenzene	11.204	91	26320	4.81	ug/L	99
75) m,p-xylene	11.335	106	19660	9.37	ug/L	97
76) o-xylene	11.702	106	10208	4.74	ug/L	99
77) styrene	11.723	104	15603	4.81	ug/L	92
78) bromoform	11.896	173	1417	2.93	ug/L	92
79) trans-1,4-dichloro-2-b...	12.115	53	920m	3.48	ug/L	
81) isopropylbenzene	12.054	105	24423	4.43	ug/L	100
83) bromobenzene	12.344	156	6843	5.03	ug/L	93
84) 1,1,2,2-tetrachloroethane	12.348	83	4006	4.67	ug/L	95
85) 1,2,3-trichloropropane	12.397	75	3499	3.53	ug/L	71
86) n-propylbenzene	12.443	91	28376	4.64	ug/L	99
87) 2-chlorotoluene	12.521	91	18675	4.95	ug/L	99
88) 4-chlorotoluene	12.634	91	21377	4.98	ug/L	100
89) 1,3,5-trimethylbenzene	12.612	105	22754	4.64	ug/L	98
90) tert-butylbenzene	12.898	91	10857	4.18	ug/L	91
91) 1,2,4-trimethylbenzene	12.953	105	22809	4.67	ug/L	99
92) sec-butylbenzene	13.101	105	24173	4.32	ug/L	98
93) 1,3-dichlorobenzene	13.209	146	13204	5.09	ug/L	97
94) p-isopropyltoluene	13.242	119	22012	4.36	ug/L	98
95) 1,4-dichlorobenzene	13.304	146	13414	5.14	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33445.D
Acq On : 1 Aug 2014 10:46 am
Operator : amym
Sample : ic1226-5
Misc : MS32359,MSV1226,,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 01 13:23:07 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) 1,2-dichlorobenzene	13.621	146	12610	5.08	ug/L	97
97) n-butylbenzene	13.607	91	18578	4.42	ug/L	99
98) 1,2-dibromo-3-chloropr...	14.325	75	124m	1.18	ug/L	
99) 1,3,5-trichlorobenzene	14.487	180	9303	5.00	ug/L	98
100) 1,2,4-trichlorobenzene	15.043	180	7066	4.67	ug/L	98
101) hexachlorobutadiene	15.164	225	2965	5.08	ug/L	99
102) naphthalene	15.276	128	8909	3.95	ug/L	100
103) 1,2,3-trichlorobenzene	15.466	180	5743	4.68	ug/L	98
104) 2-Methylnaphthalene	16.278	142	901m	1.14	ug/L	
105) 1-Methylnaphthalene	16.447	142	817m	1.24	ug/L	

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

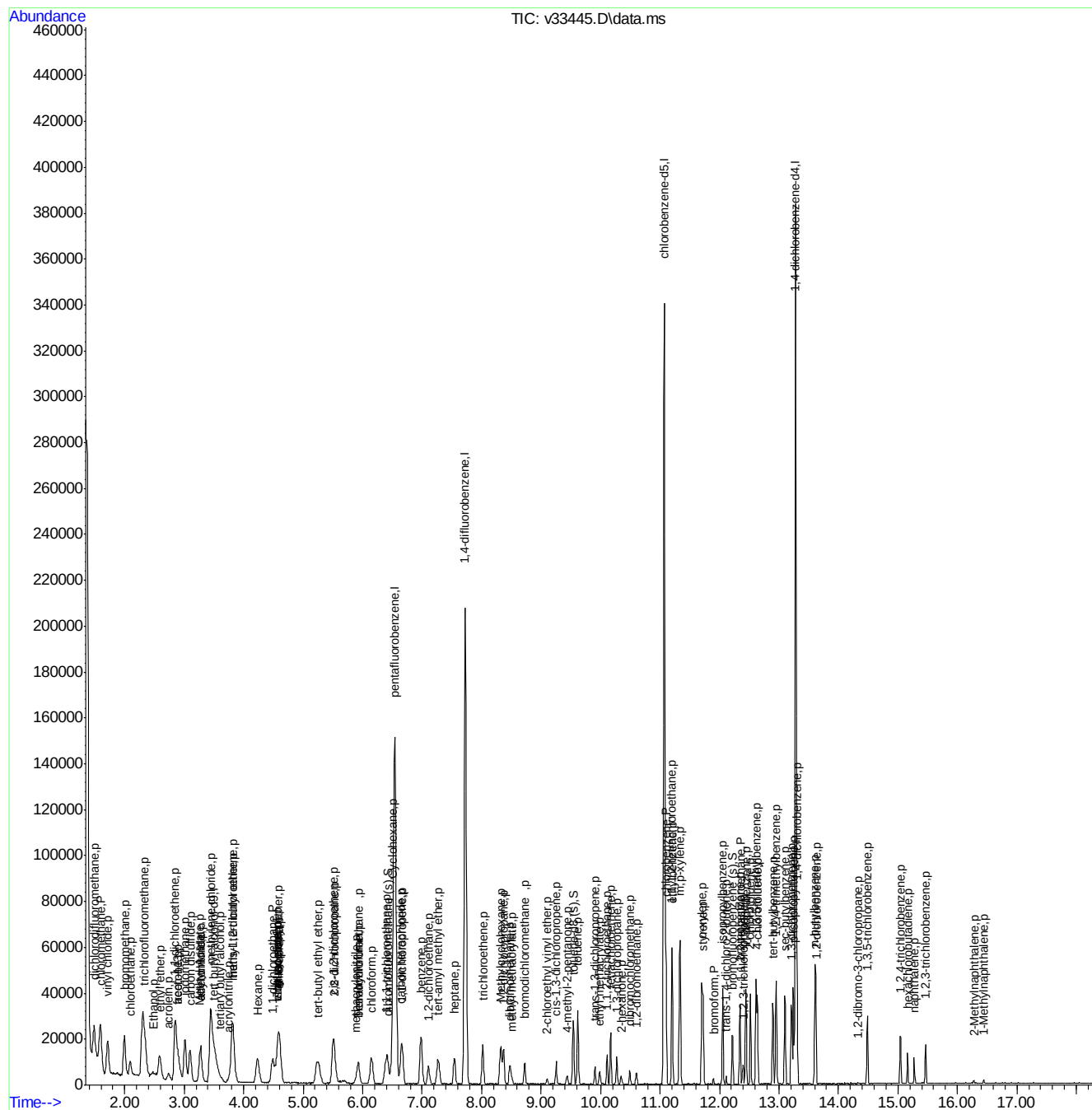
7.6.4

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33445.D
Acq On : 1 Aug 2014 10:46 am
Operator : amym
Sample : ic1226-5
Misc : MS32359,MSV1226,,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 01 13:23:07 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



v140801w.m Mon Aug 04 12:42:34 2014

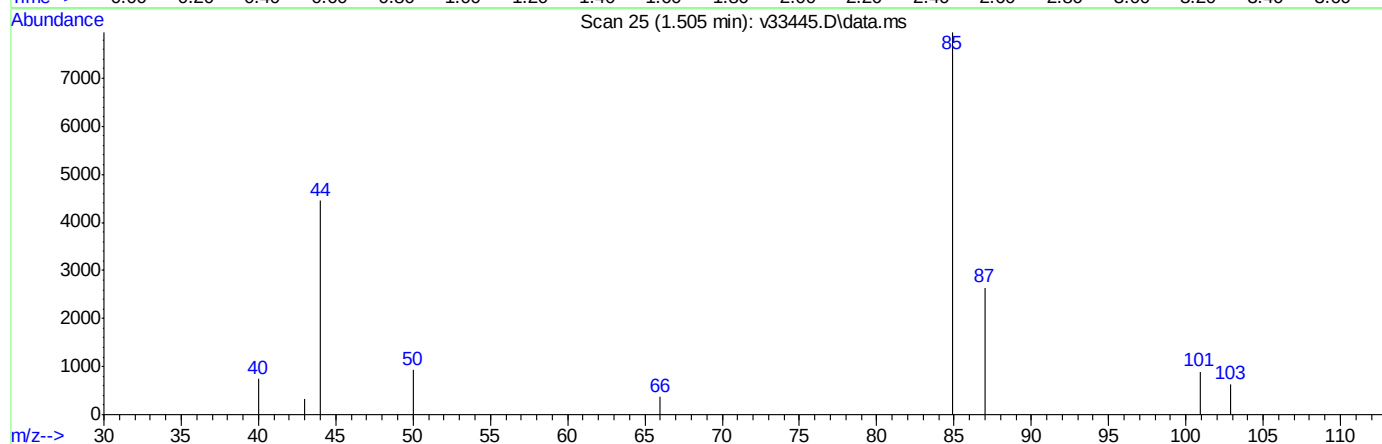
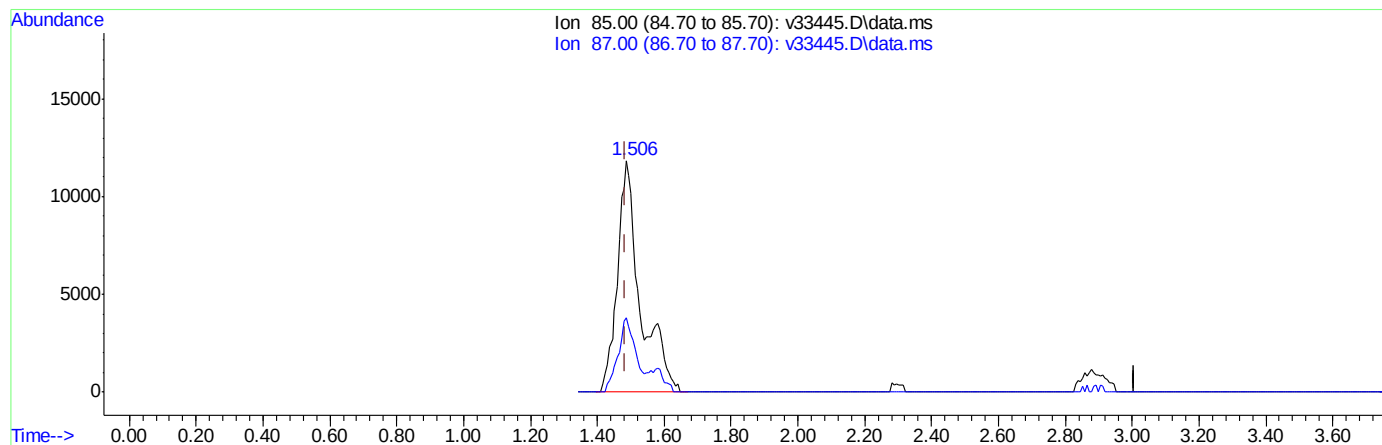
Page: 4

7.6.4

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33445.D
Acq On : 1 Aug 2014 10:46 am
Operator : amym
Sample : ic1226-5
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 01 13:11:52 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



TIC: v33445.D\data.ms

(5) dichlorodifluoromethane (p)

1.506min (+0.021) 7.20ug/L

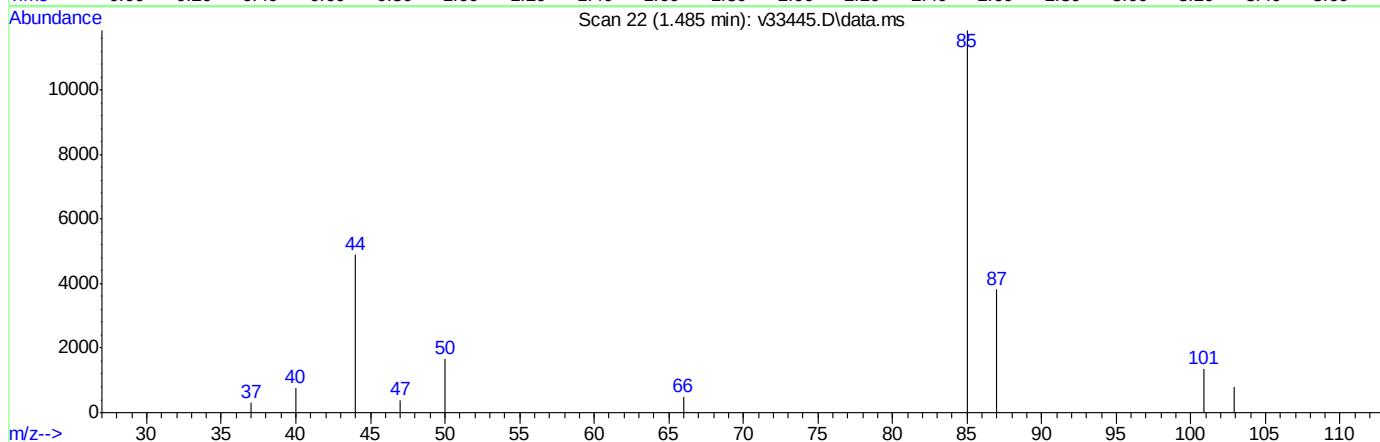
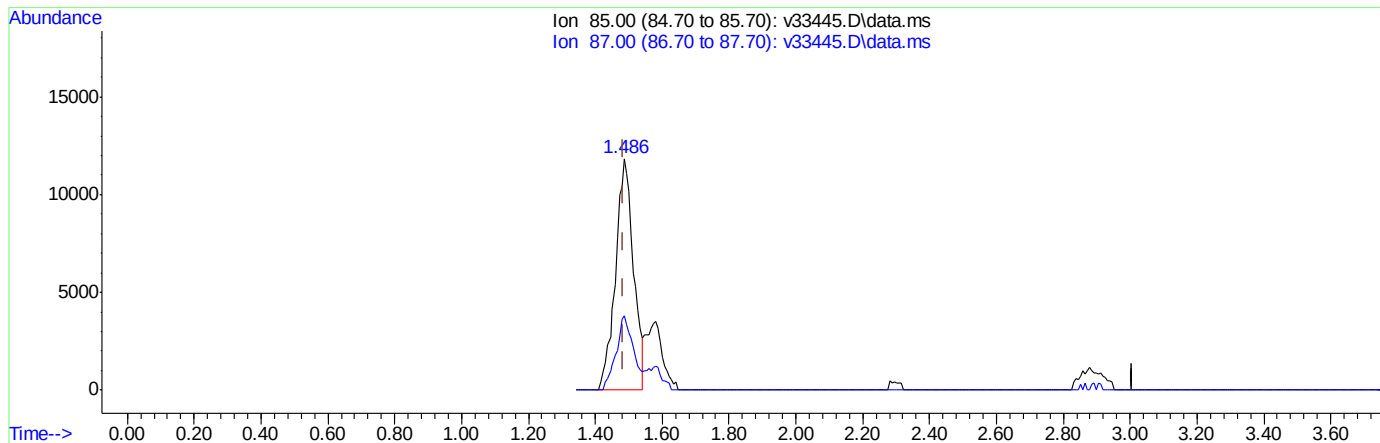
response 55635

Ion	Exp%	Act%
85.00	100	100
87.00	33.00	33.27
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33445.D
Acq On : 1 Aug 2014 10:46 am
Operator : amym
Sample : ic1226-5
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 01 13:11:52 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



TIC: v33445.D\data.ms

(5) dichlorodifluoromethane (p)

1.485min (+0.000) 5.63ug/L m

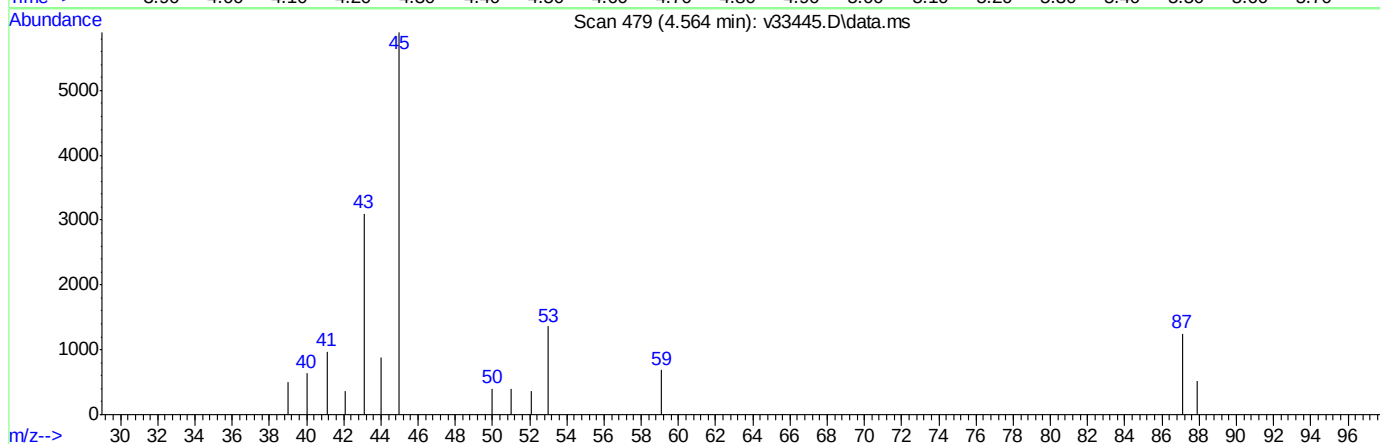
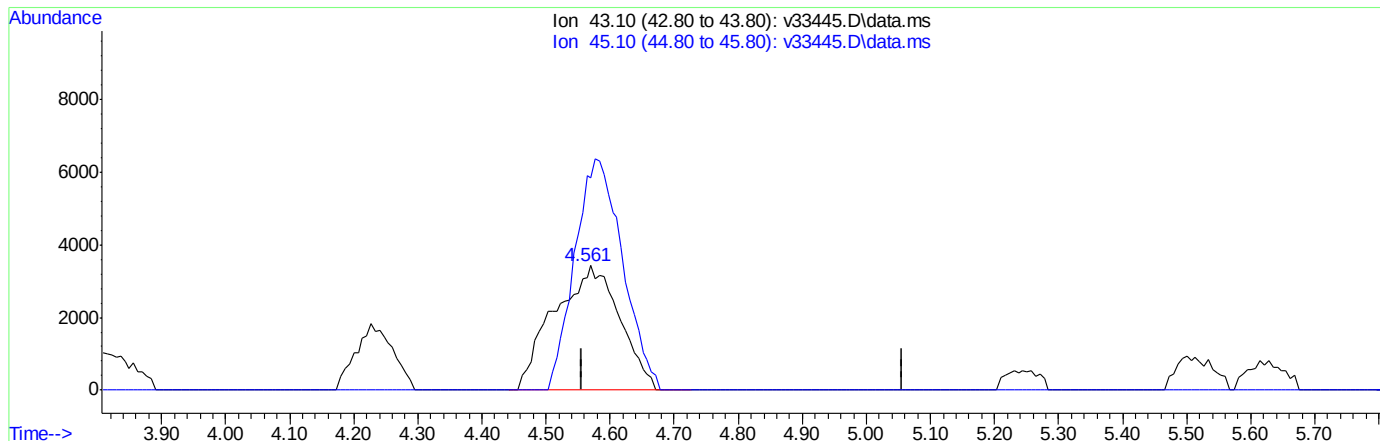
response 43513

Ion	Exp%	Act%
85.00	100	100
87.00	33.00	32.14
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33445.D
Acq On : 1 Aug 2014 10:46 am
Operator : amym
Sample : ic1226-5
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 01 13:11:52 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



(37) ethyl acetate (p)

4.564min (+0.007) 4.68ug/L m

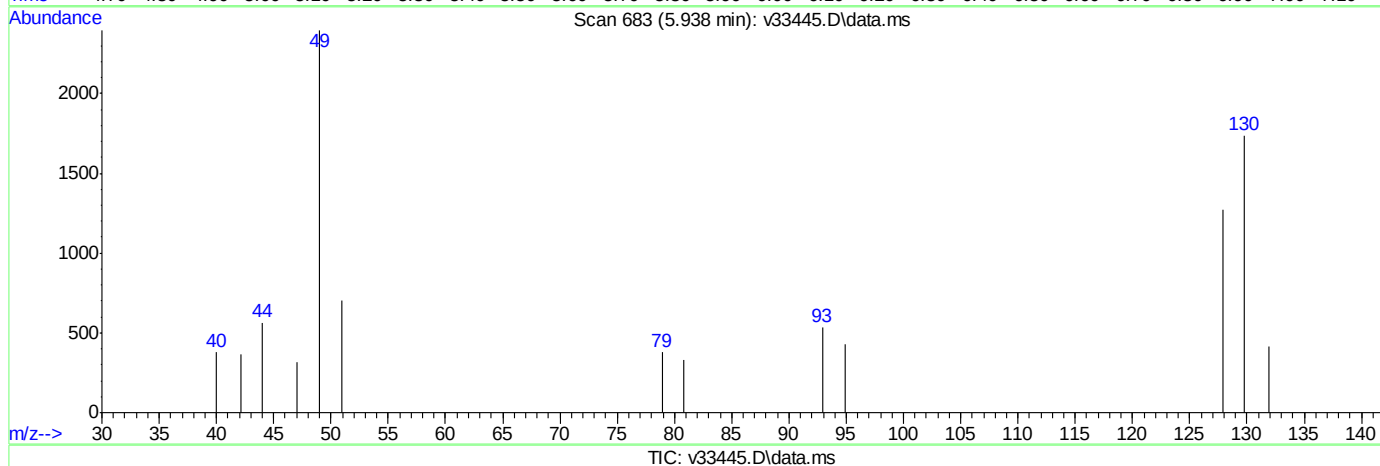
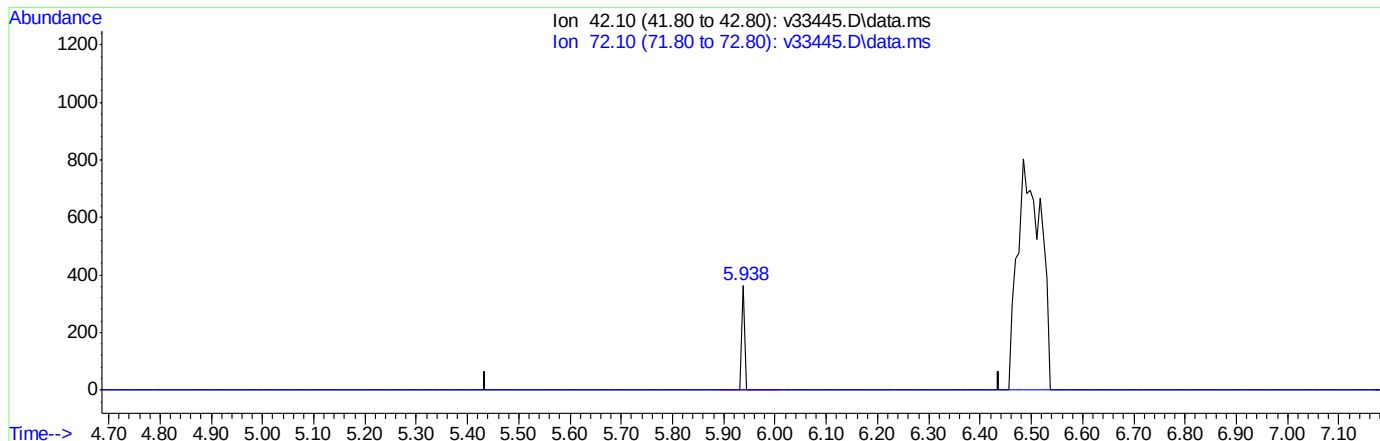
response 24370

Ion	Exp%	Act%
43.10	100	100
45.10	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33445.D
Acq On : 1 Aug 2014 10:46 am
Operator : amym
Sample : ic1226-5
Misc : MS32359,MSV1226,,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 01 13:11:52 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



(41) Tetrahydrofuran (p)

5.938min (+0.001) 0.59ug/L m

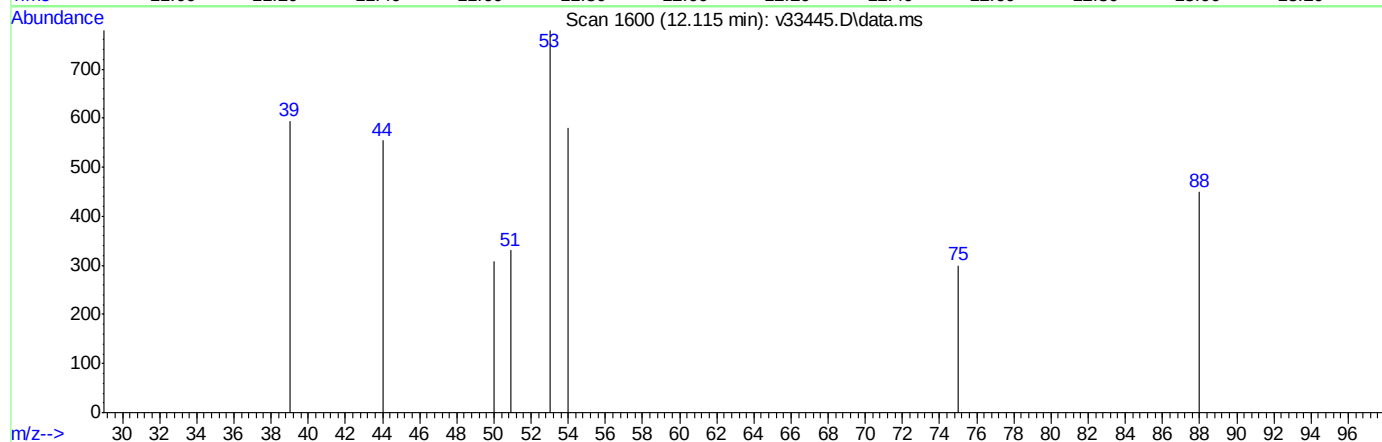
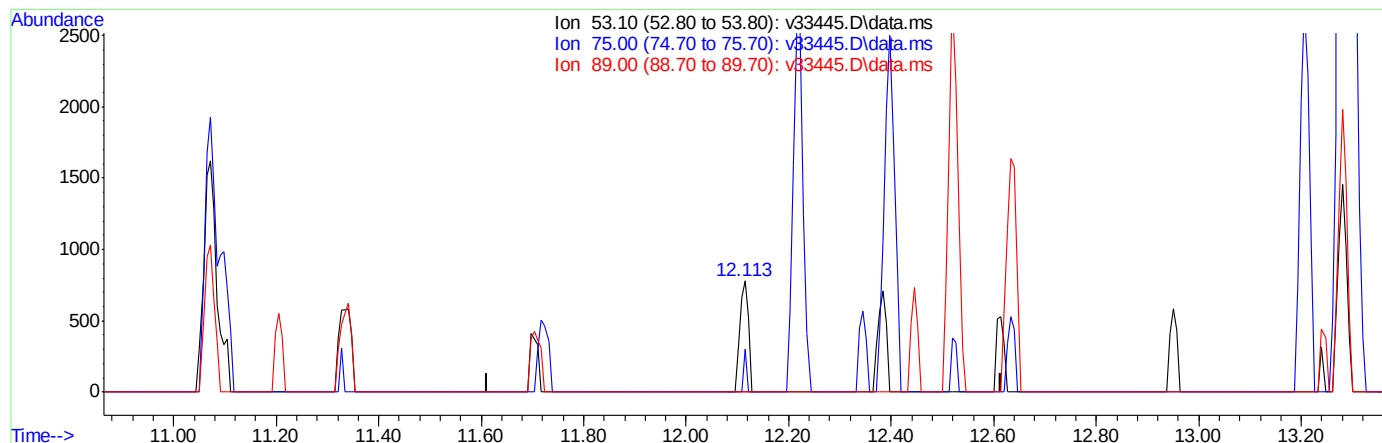
response 148

Ion	Exp%	Act%
42.10	100	100
72.10	28.80	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33445.D
Acq On : 1 Aug 2014 10:46 am
Operator : amym
Sample : ic1226-5
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 01 13:11:52 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



(79) trans-1,4-dichloro-2-butene (p)

12.115min (+0.001) 3.48ug/L m

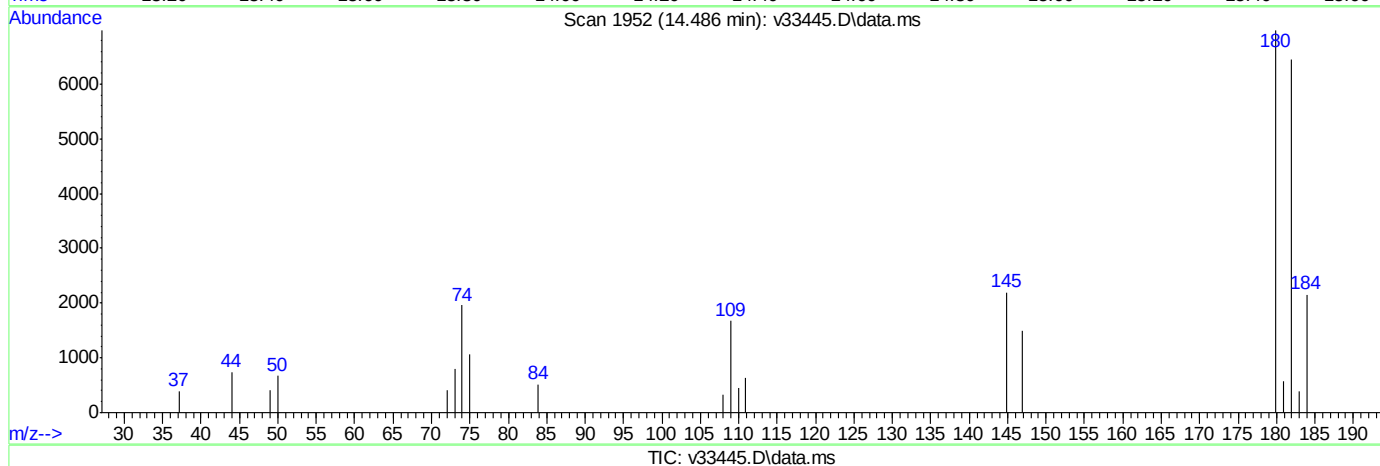
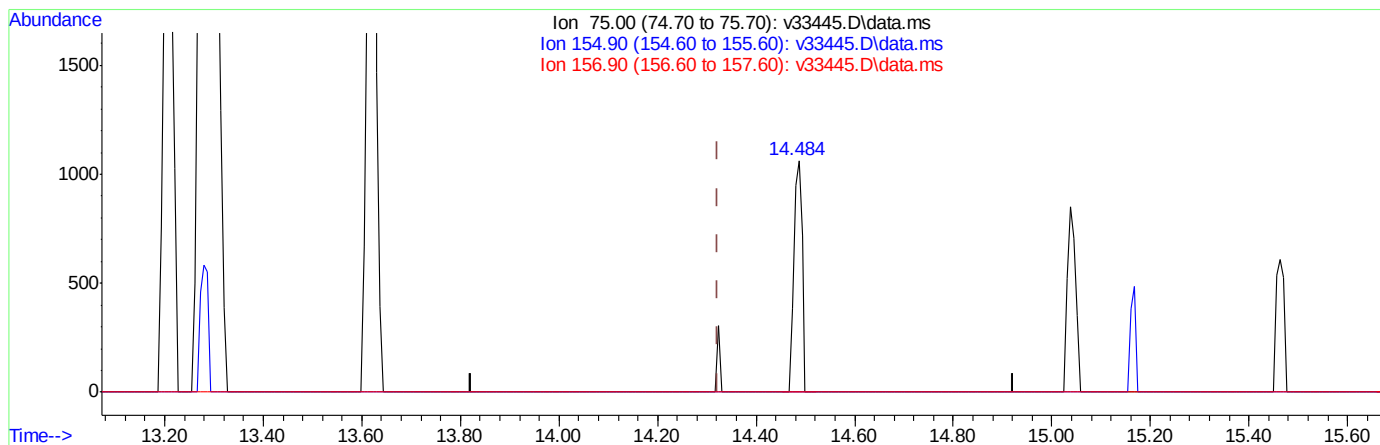
response 920

Ion	Exp%	Act%
53.10	100	100
75.00	49.10	38.51
89.00	23.20	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33445.D
Acq On : 1 Aug 2014 10:46 am
Operator : amym
Sample : ic1226-5
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 01 13:11:52 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



(98) 1,2-dibromo-3-chloropropane (p)

14.484min (+0.162) 11.99ug/L

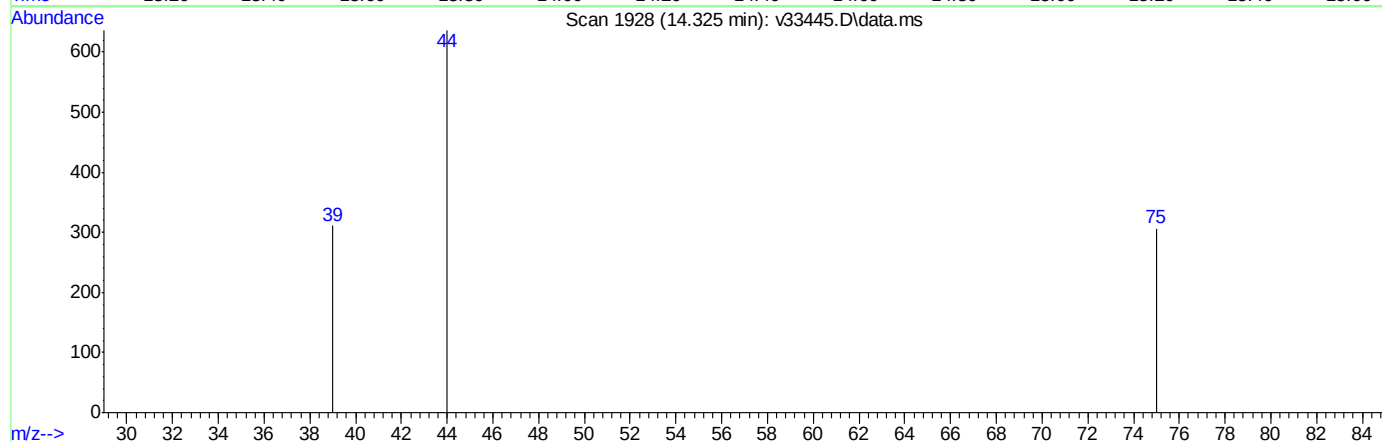
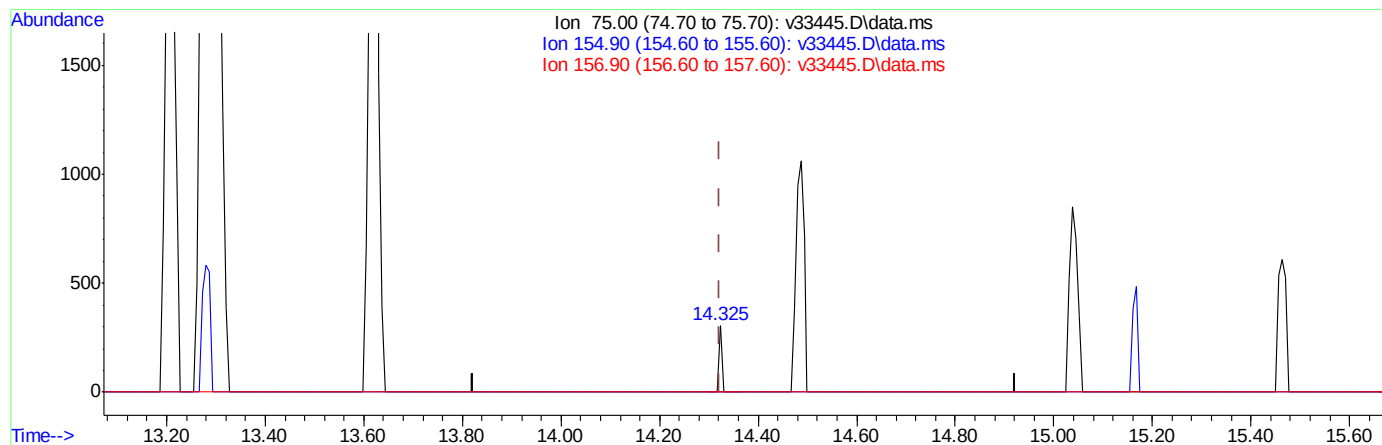
response 1258

Ion	Exp%	Act%
75.00	100	100
154.90	83.60	0.00#
156.90	101.10	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33445.D
Acq On : 1 Aug 2014 10:46 am
Operator : amym
Sample : ic1226-5
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 01 13:11:52 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



TIC: v33445.D\data.ms

(98) 1,2-dibromo-3-chloropropane (p)

14.325min (+0.002) 1.18ug/L m

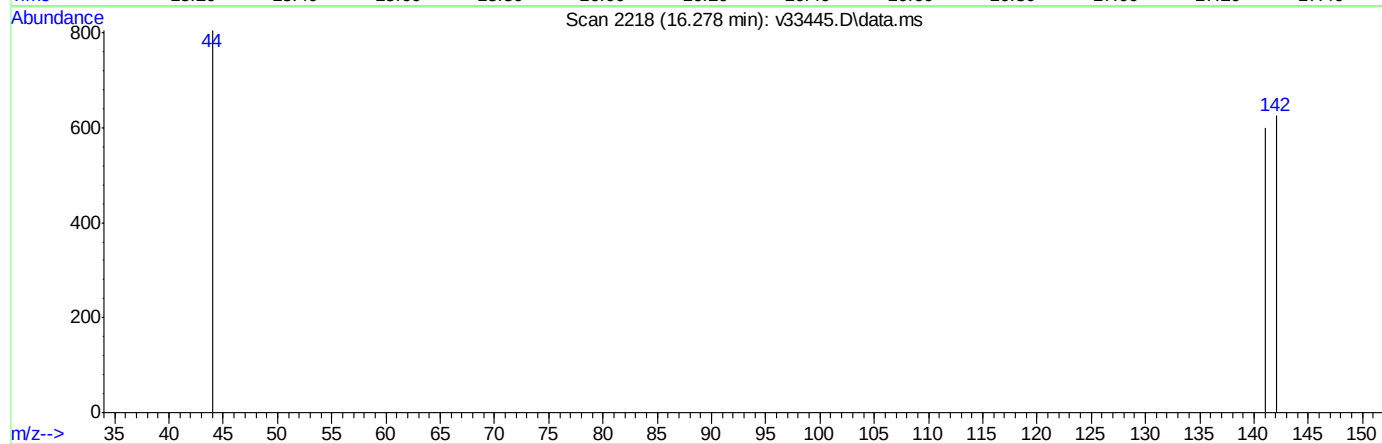
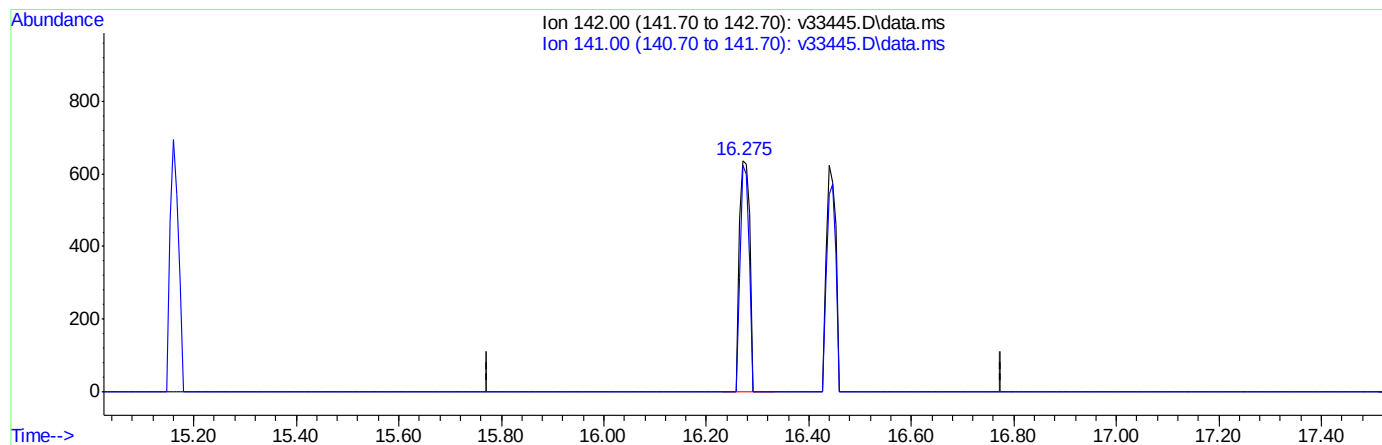
response 124

Ion	Exp%	Act%
75.00	100	100
154.90	83.60	0.00#
156.90	101.10	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33445.D
Acq On : 1 Aug 2014 10:46 am
Operator : amym
Sample : ic1226-5
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 01 13:11:52 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



TIC: v33445.D\data.ms

(104) 2-Methylnaphthalene (p)

16.278min (+0.004) 1.14ug/L m

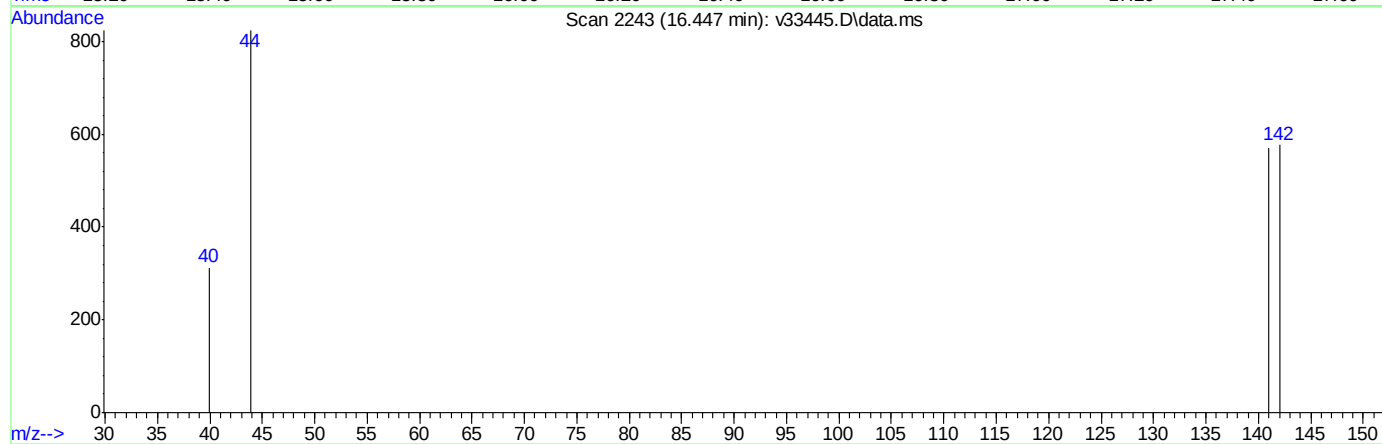
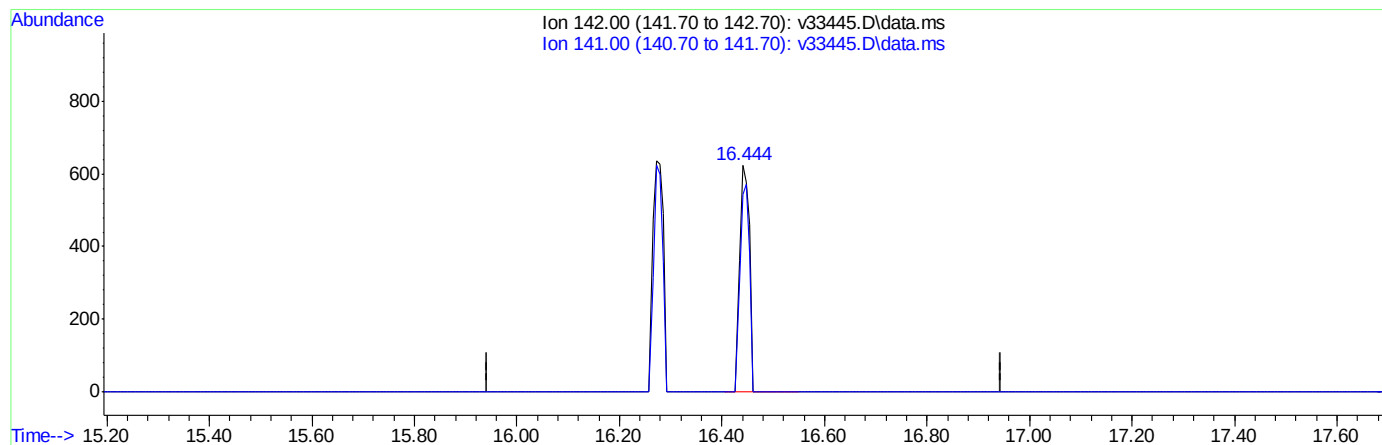
response 901

Ion	Exp%	Act%
142.00	100	100
141.00	87.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33445.D
Acq On : 1 Aug 2014 10:46 am
Operator : amym
Sample : ic1226-5
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 01 13:11:52 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



(105) 1-Methylnaphthalene (p)

16.447min (+0.003) 1.24ug/L m

response 817

Ion	Exp%	Act%
142.00	100	100
141.00	89.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
 Data File : v33446.D
 Acq On : 1 Aug 2014 11:12 am
 Operator : amym
 Sample : ic1226-10
 Misc : MS32359,MSV1226,,,,5,1
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 01 13:24:35 2014
 Quant Method : C:\msdchem\1\METHODS\v140801w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Aug 01 13:11:19 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.502	65	47933	500.00	ug/L	# 0.00
4) pentafluorobenzene	6.543	168	181369	50.00	ug/L	0.00
43) 1,4-difluorobenzene	7.727	114	223415	50.00	ug/L	0.00
66) chlorobenzene-d5	11.070	82	85138	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	13.283	152	87630	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	6.422	113	18997	9.91	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	19.82%#		
60) toluene-d8 (s)	9.542	98	42040	9.96	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	19.92%#		
82) bromofluorobenzene (s)	12.219	95	15772	10.22	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	20.44%#		
Target Compounds						
2) tertiary butyl alcohol	3.604	59	7426	92.13	ug/L	85
3) Ethanol	2.487	45	8865	1157.65	ug/L	# 100
5) dichlorodifluoromethane	1.492	85	91439m	11.49	ug/L	
6) chloromethane	1.602	50	53042	11.64	ug/L	98
7) vinyl chloride	1.716	62	54644	12.06	ug/L	98
8) bromomethane	2.001	96	34132	12.15	ug/L	97
9) chloroethane	2.096	64	19944	12.42	ug/L	97
10) ethyl ether	2.593	59	17632	11.97	ug/L	91
11) acetonitrile	3.278	41	36949	9.45	ug/L	# 24
12) trichlorofluoromethane	2.335	101	79976	11.98	ug/L	97
13) freon-113	2.894	101	23535	6.89	ug/L	99
14) acrolein	2.741	56	11387	58.94	ug/L	92
15) 1,1-dichloroethene	2.852	96	21246	8.83	ug/L	99
16) acetone	2.888	58	2789	8.29	ug/L	# 85
17) Methyl Acetate	3.265	43	11212	10.74	ug/L	# 92
18) methylene chloride	3.448	84	26005	10.85	ug/L	88
19) methyl tert butyl ether	3.822	73	42069	10.04	ug/L	98
20) acrylonitrile	3.760	53	5667	9.59	ug/L	89
21) allyl chloride	3.278	41	36949	9.45	ug/L	90
22) trans-1,2-dichloroethene	3.817	96	21687	9.79	ug/L	98
23) iodomethane	3.019	142	62621	10.40	ug/L	97
24) carbon disulfide	3.103	76	57182	7.74	ug/L	97
25) propionitrile	5.621	54	256m	1.79	ug/L	
26) vinyl acetate	4.562	43	50218	9.38	ug/L	94
27) chloroprene	4.602	53	26064	8.40	ug/L	97
28) di-isopropyl ether	4.586	45	67937	9.62	ug/L	95
29) methacrylonitrile	5.897	41	6940	9.63	ug/L	92
30) 2-butanone	5.513	72	713m	4.73	ug/L	
31) Hexane	4.233	41	15961	7.56	ug/L	89
32) 1,1-dichloroethane	4.489	63	39753	9.93	ug/L	99
33) tert-butyl ethyl ether	5.250	59	42355	9.34	ug/L	96
34) isobutyl alcohol	4.562	43	50218	46.90	ug/L	85
35) 2,2-dichloropropane	5.526	77	17472	7.16	ug/L	99
36) cis-1,2-dichloroethene	5.511	96	18604	9.83	ug/L	93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
 Data File : v33446.D
 Acq On : 1 Aug 2014 11:12 am
 Operator : amym
 Sample : ic1226-10
 Misc : MS32359,MSV1226,,,,,5,1
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 01 13:24:35 2014
 Quant Method : C:\msdchem\1\METHODS\v140801w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Aug 01 13:11:19 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) ethyl acetate	4.564	43	50218m	9.38	ug/L	
38) bromochloromethane	5.932	128	9148	9.86	ug/L	90
39) chloroform	6.151	83	33301	9.92	ug/L	98
41) Tetrahydrofuran	5.939	42	2114	8.19	ug/L	46
42) 1,1,1-trichloroethane	6.395	97	24982	7.76	ug/L	98
44) Cyclohexane	6.507	56	25281	7.69	ug/L #	86
45) carbon tetrachloride	6.648	117	20477	6.81	ug/L	99
46) 1,1-dichloropropene	6.665	75	17641	8.29	ug/L	96
47) benzene	6.984	78	50450	9.75	ug/L	98
48) 1,2-dichloroethane	7.109	62	22384	9.85	ug/L	98
49) tert-amyl methyl ether	7.273	73	22015	9.17	ug/L	93
50) heptane	7.545	43	13633	7.53	ug/L	89
51) trichloroethene	8.020	95	14008	9.16	ug/L	97
52) 1,2-dichloropropane	8.370	63	13863	9.38	ug/L	91
53) dibromomethane	8.475	93	7368	9.59	ug/L	88
54) bromodichloromethane	8.725	83	13924	8.40	ug/L	97
55) Methylcyclohexane	8.324	83	14625	7.03	ug/L	97
56) 2-chloroethyl vinyl ether	9.102	63	3611	9.12	ug/L	96
57) methyl methacrylate	8.504	69	3200	7.63	ug/L #	76
59) cis-1,3-dichloropropene	9.253	75	12386	8.26	ug/L	95
61) 4-methyl-2-pentanone	9.441	43	7313	8.49	ug/L #	94
62) toluene	9.618	92	26675	9.59	ug/L	99
63) trans-1,3-dichloropropene	9.906	75	7858	7.42	ug/L	100
64) 1,1,2-trichloroethane	10.111	83	6559	9.45	ug/L	96
65) ethyl methacrylate	9.988	69	6422	7.22	ug/L	88
67) tetrachloroethene	10.171	166	11916	8.17	ug/L	98
68) 1,3-dichloropropane	10.273	76	12325	9.45	ug/L	100
69) dibromochloromethane	10.494	129	7720	7.53	ug/L	93
70) 1,2-dibromoethane	10.603	107	7646	8.93	ug/L	95
71) 2-hexanone	10.349	43	6731	7.90	ug/L	97
72) chlorobenzene	11.099	112	30858	9.73	ug/L	97
73) 1,1,1,2-tetrachloroethane	11.200	131	11145	7.91	ug/L	97
74) ethylbenzene	11.205	91	51716	9.26	ug/L	100
75) m,p-xylene	11.336	106	39515	18.48	ug/L	100
76) o-xylene	11.702	106	19703	8.98	ug/L	93
77) styrene	11.724	104	30816	9.32	ug/L	100
78) bromoform	11.897	173	3486	7.08	ug/L	95
79) trans-1,4-dichloro-2-b...	12.115	53	2153	7.99	ug/L	87
81) isopropylbenzene	12.055	105	49278	8.66	ug/L	100
83) bromobenzene	12.345	156	13497	9.61	ug/L	98
84) 1,1,2,2-tetrachloroethane	12.349	83	8218	9.27	ug/L	99
85) 1,2,3-trichloropropane	12.398	75	7252	7.08	ug/L	64
86) n-propylbenzene	12.443	91	55613	8.80	ug/L	98
87) 2-chlorotoluene	12.522	91	36731	9.42	ug/L	98
88) 4-chlorotoluene	12.634	91	42443	9.56	ug/L	96
89) 1,3,5-trimethylbenzene	12.612	105	44753	8.83	ug/L	100
90) tert-butylbenzene	12.898	91	21800	8.12	ug/L	96
91) 1,2,4-trimethylbenzene	12.953	105	45474	9.01	ug/L	100
92) sec-butylbenzene	13.101	105	47111	8.14	ug/L	99
93) 1,3-dichlorobenzene	13.210	146	26188	9.76	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33446.D
Acq On : 1 Aug 2014 11:12 am
Operator : amym
Sample : ic1226-10
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 01 13:24:35 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration

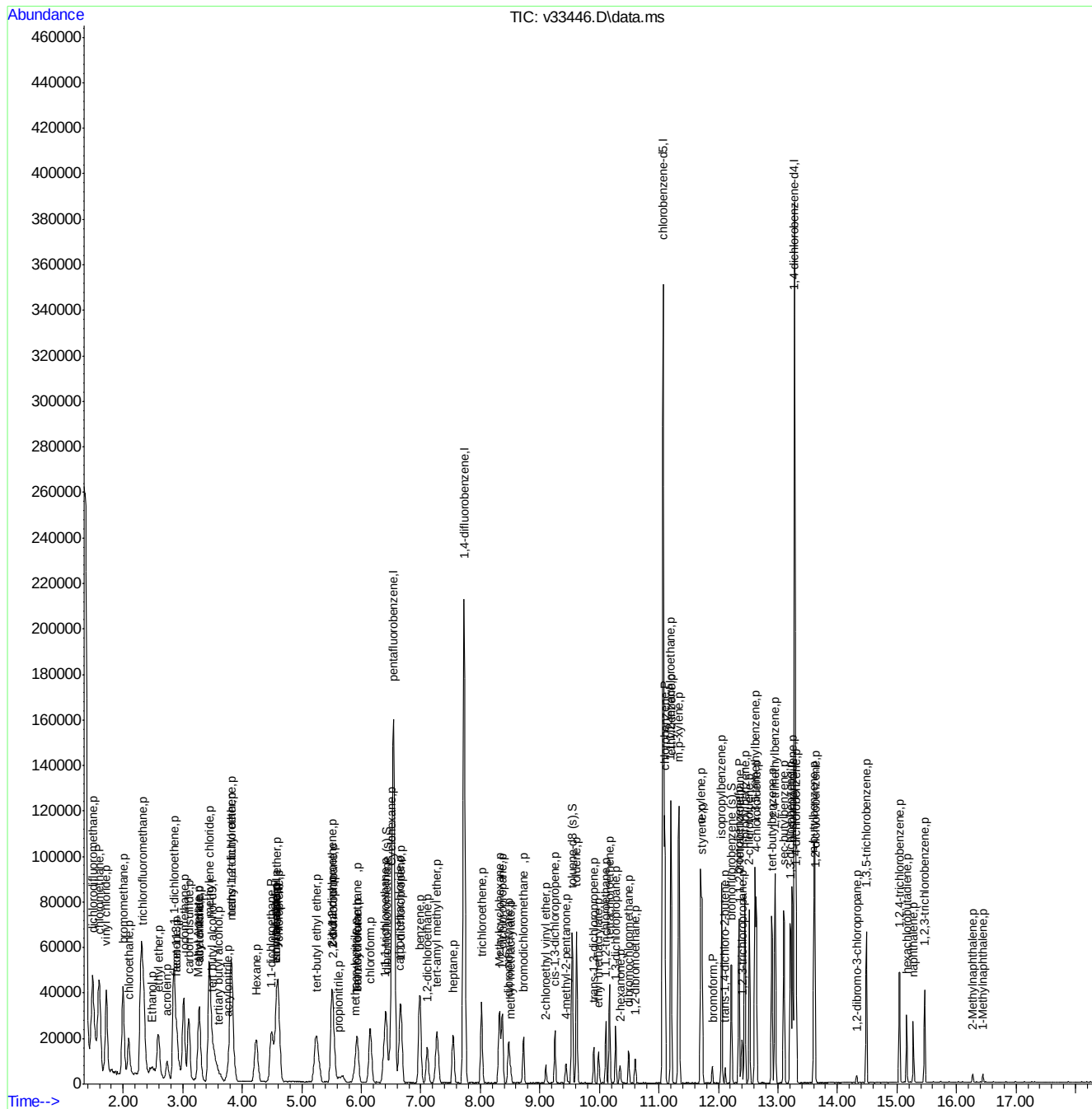
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94)	p-isopropyltoluene	13.243	119	44431	8.51	ug/L	96
95)	1,4-dichlorobenzene	13.305	146	26393	9.79	ug/L	99
96)	1,2-dichlorobenzene	13.622	146	24843	9.69	ug/L	97
97)	n-butylbenzene	13.607	91	36363	8.38	ug/L	99
98)	1,2-dibromo-3-chloropr...	14.325	75	804m	7.42	ug/L	
99)	1,3,5-trichlorobenzene	14.487	180	18264	9.50	ug/L	96
100)	1,2,4-trichlorobenzene	15.043	180	14827	9.49	ug/L	94
101)	hexachlorobutadiene	15.164	225	5432	9.01	ug/L	97
102)	naphthalene	15.277	128	19631	8.42	ug/L	100
103)	1,2,3-trichlorobenzene	15.465	180	11570	9.13	ug/L	100
104)	2-Methylnaphthalene	16.274	142	2446	3.00	ug/L	98
105)	1-Methylnaphthalene	16.445	142	2229	3.28	ug/L	97

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

Quantitation Report (QT Reviewed)

```
Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33446.D
Acq On    : 1 Aug 2014 11:12 am
Operator  : amym
Sample    : ic1226-10
Misc      : MS32359,MSV1226,,,,,5,1
ALS Vial  : 8 Sample Multiplier: 1
```

Quant Time: Aug 01 13:24:35 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



v140801w.m Mon Aug 04 12:42:40 2014

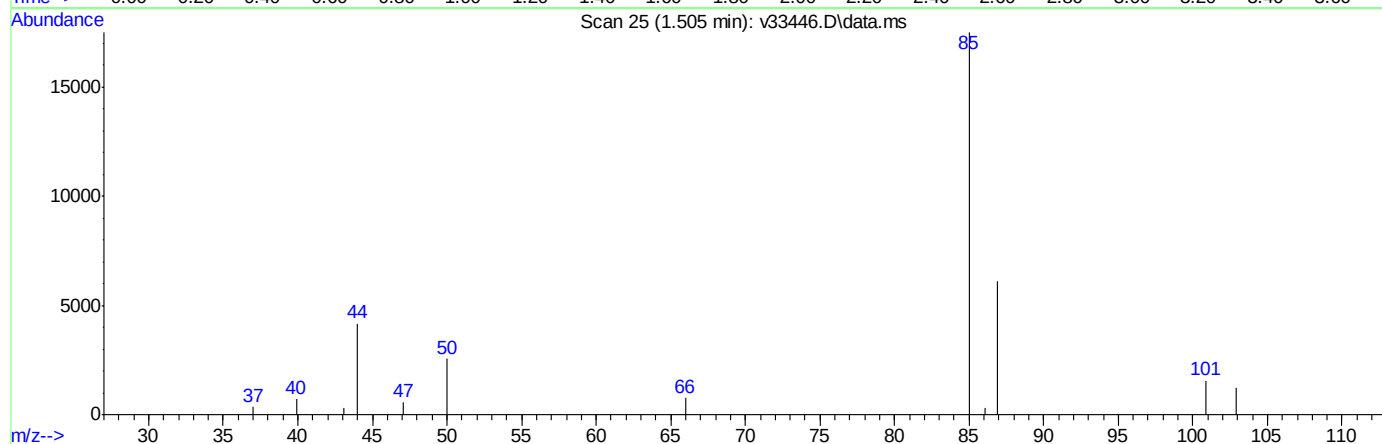
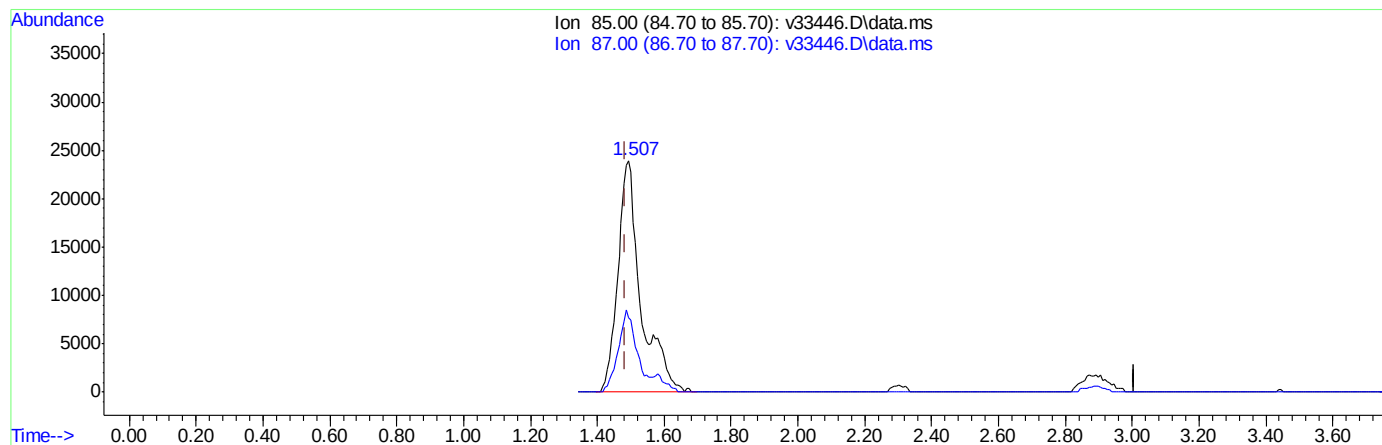
Page: 4

7.6.5

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33446.D
Acq On : 1 Aug 2014 11:12 am
Operator : amym
Sample : ic1226-10
Misc : MS32359,MSV1226,,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 01 13:11:55 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



TIC: v33446.D\data.ms

(5) dichlorodifluoromethane (p)

1.507min (+0.022) 14.02ug/L

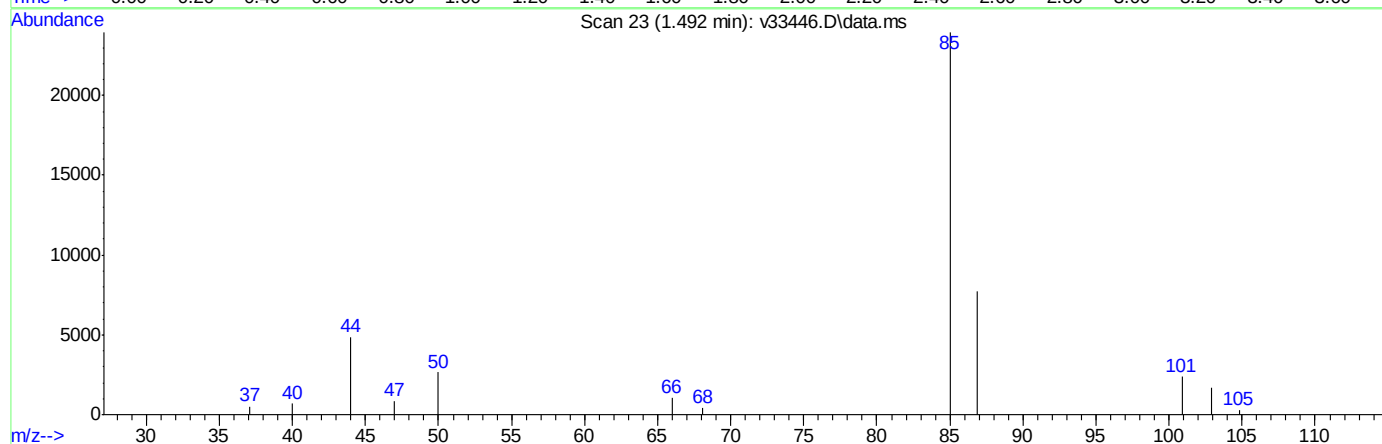
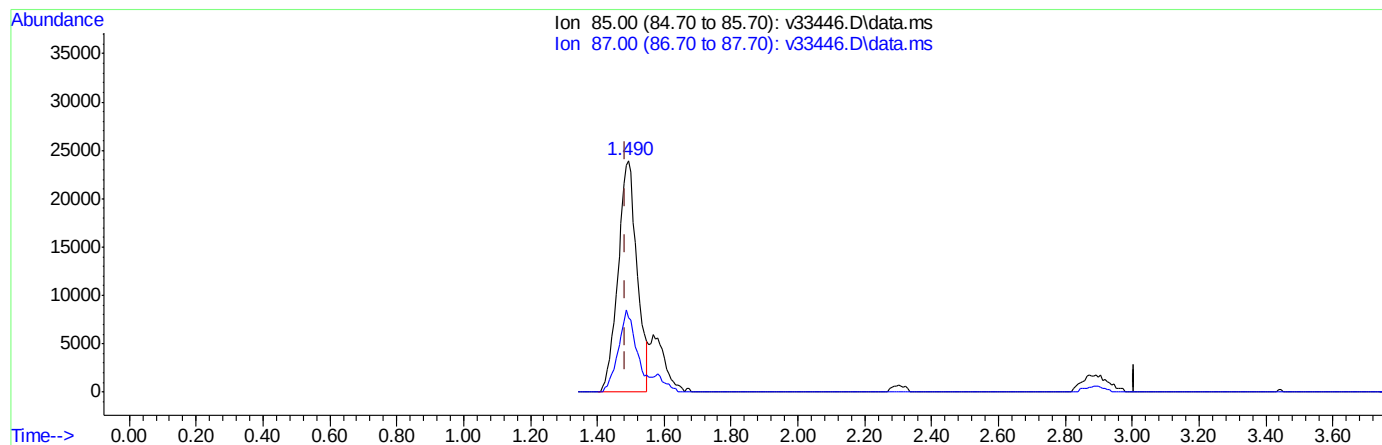
response 111515

Ion	Exp%	Act%
85.00	100	100
87.00	33.00	34.82
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33446.D
Acq On : 1 Aug 2014 11:12 am
Operator : amym
Sample : ic1226-10
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 01 13:11:55 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



TIC: v33446.D\data.ms

(5) dichlorodifluoromethane (p)

1.492min (+0.007) 11.49ug/L m

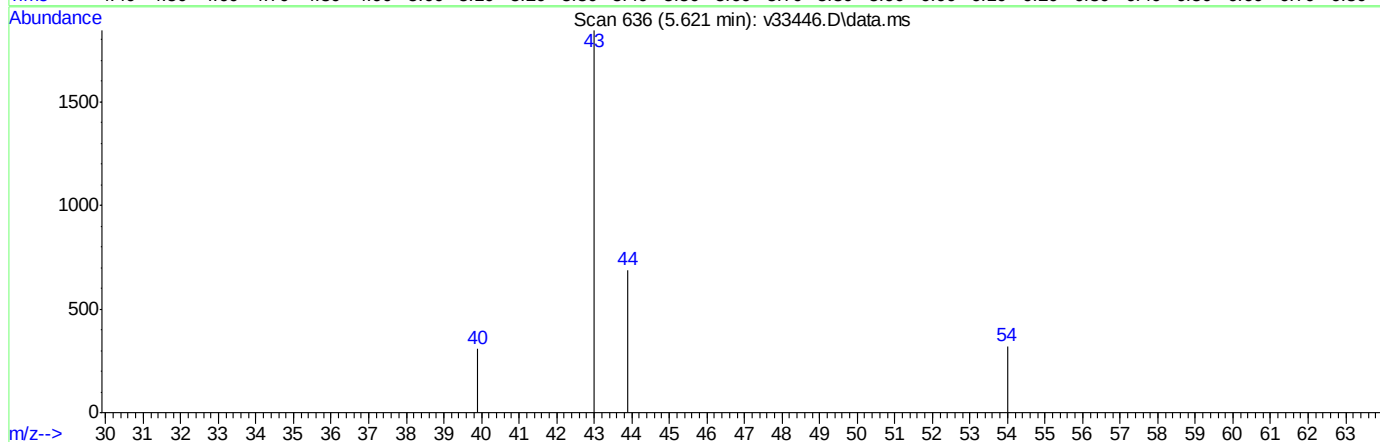
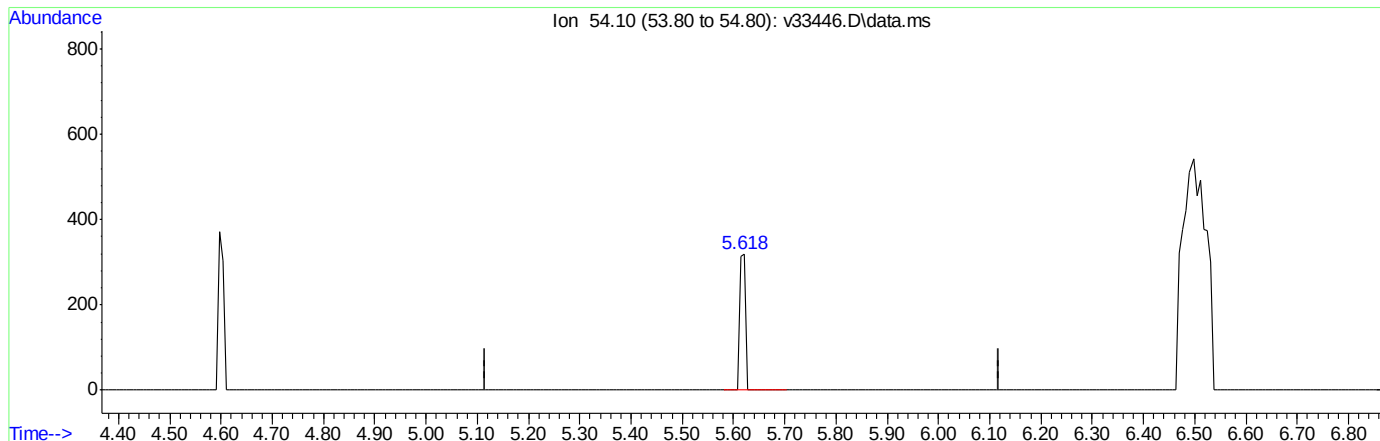
response 91439

Ion	Exp%	Act%
85.00	100	100
87.00	33.00	32.16
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33446.D
Acq On : 1 Aug 2014 11:12 am
Operator : amym
Sample : ic1226-10
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 01 13:11:55 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



TIC: v33446.D\data.ms

(25) propionitrile (p)

5.621min (+0.003) 1.79ug/L m

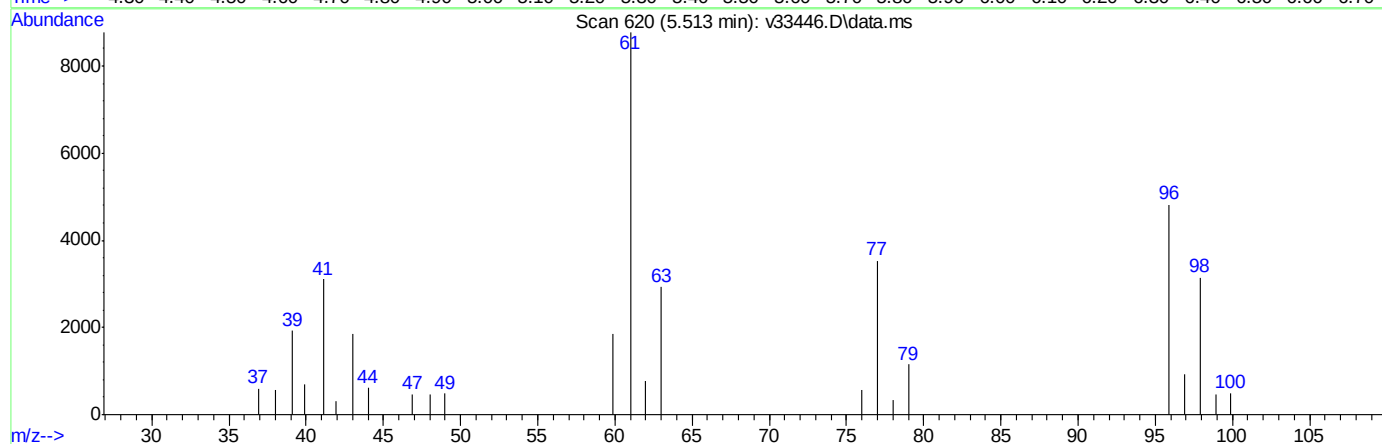
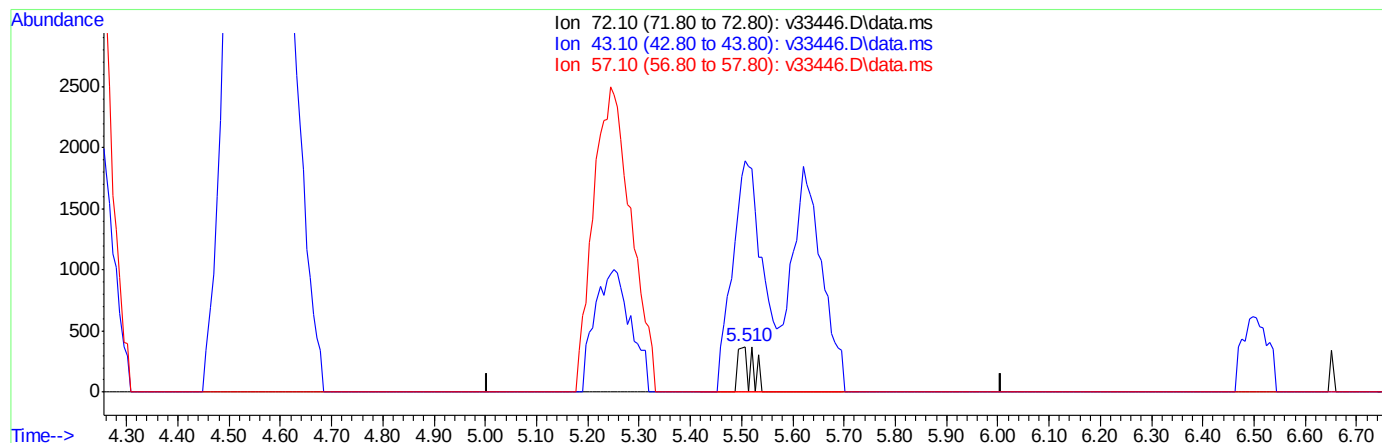
response 256

Ion	Exp%	Act%
54.10	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33446.D
Acq On : 1 Aug 2014 11:12 am
Operator : amym
Sample : ic1226-10
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 01 13:11:55 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



(30) 2-butanone (p)

5.513min (+0.008) 4.73ug/L m

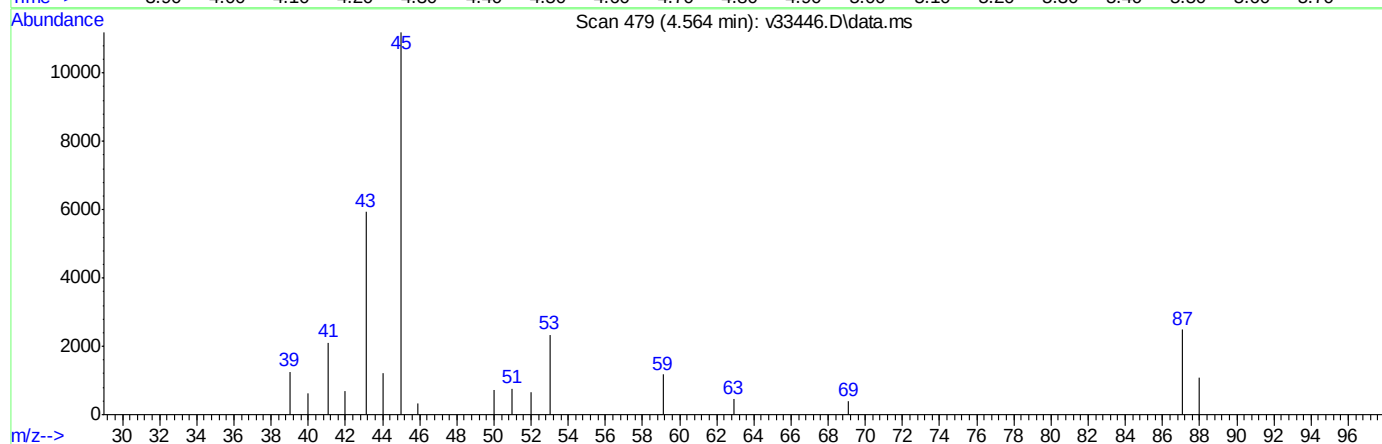
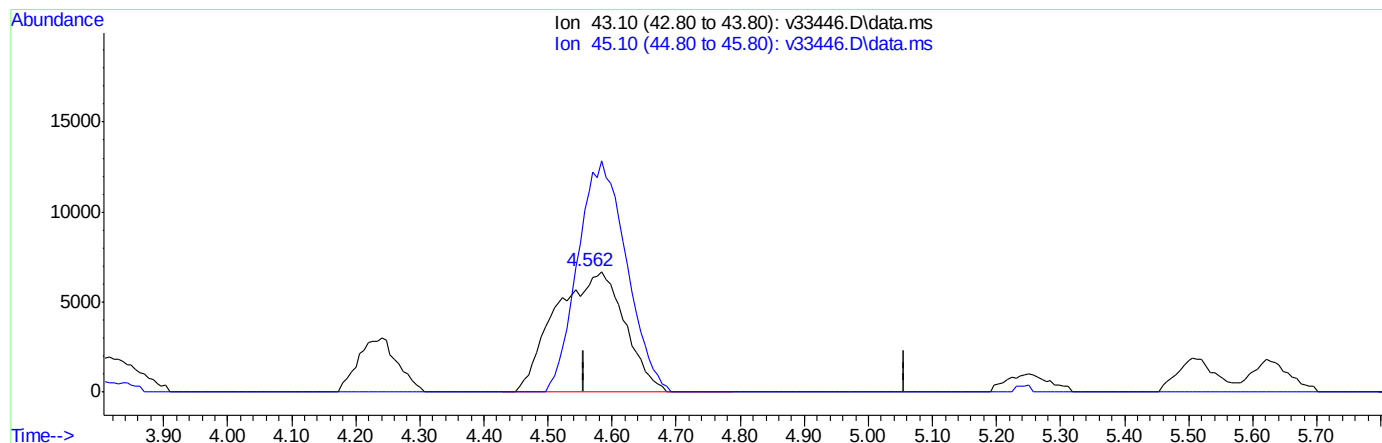
response 713

Ion	Exp%	Act%
72.10	100	100
43.10	602.10	184800.00#
57.10	42.30	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33446.D
Acq On : 1 Aug 2014 11:12 am
Operator : amym
Sample : ic1226-10
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 01 13:11:55 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



TIC: v33446.D\data.ms

(37) ethyl acetate (p)

4.564min (+0.007) 9.38ug/L m

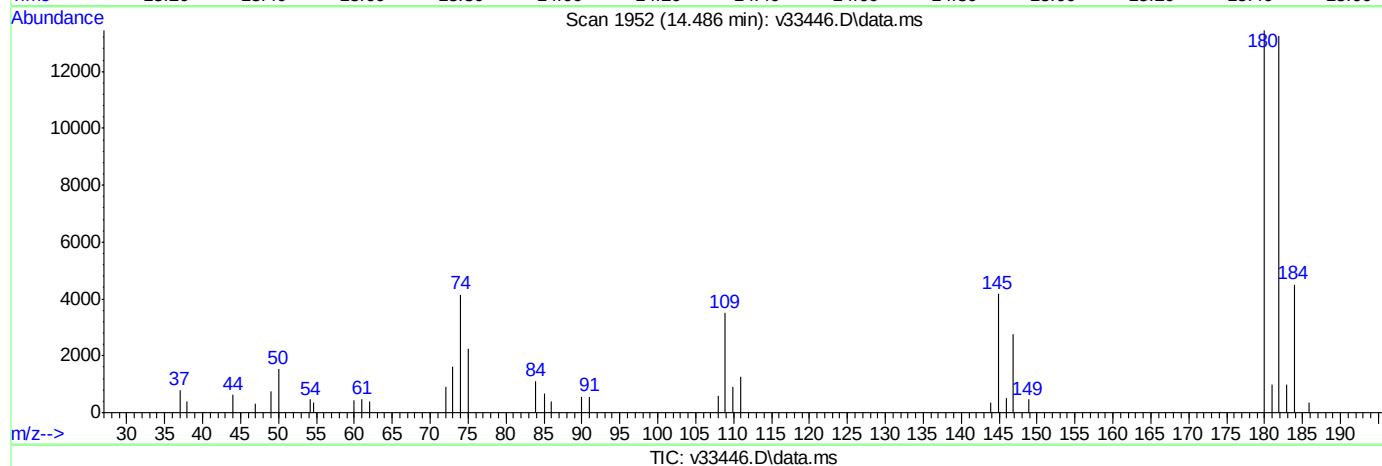
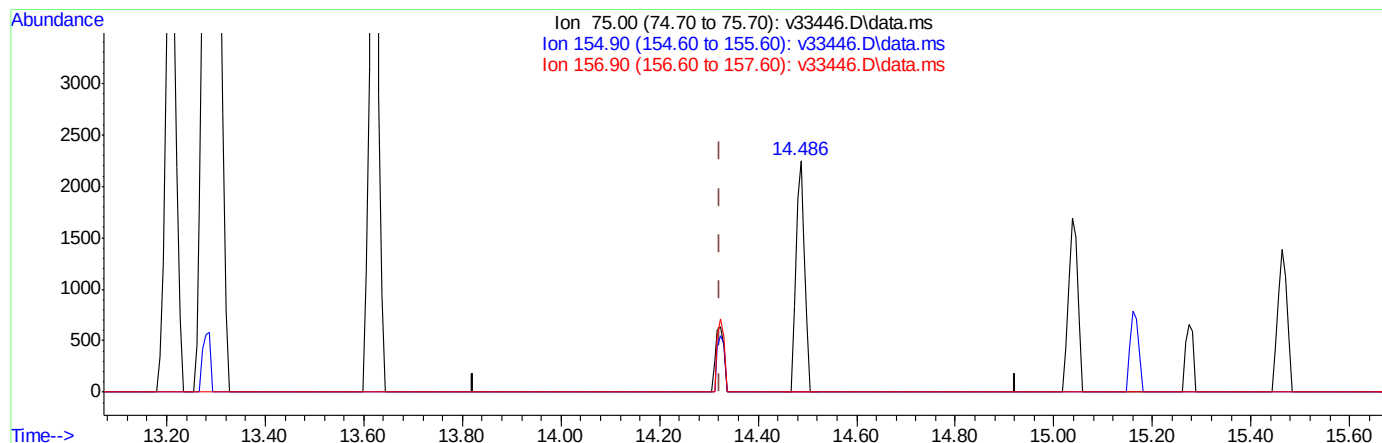
response 50218

Ion	Exp%	Act%
43.10	100	100
45.10	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33446.D
Acq On : 1 Aug 2014 11:12 am
Operator : amym
Sample : ic1226-10
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 01 13:11:55 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



(98) 1,2-dibromo-3-chloropropane (p)

14.486min (+0.163) 26.80ug/L

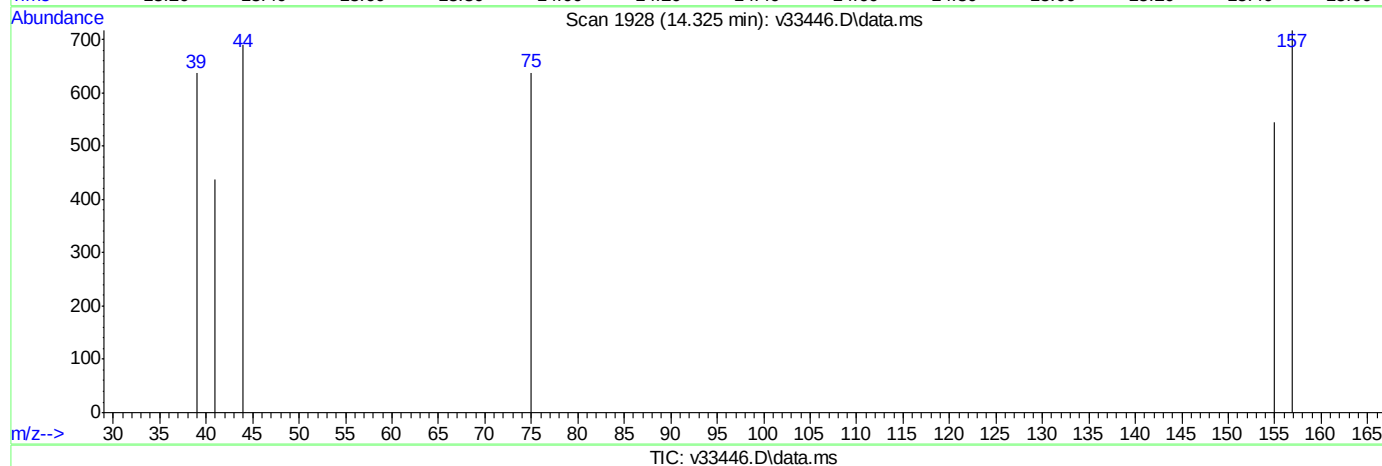
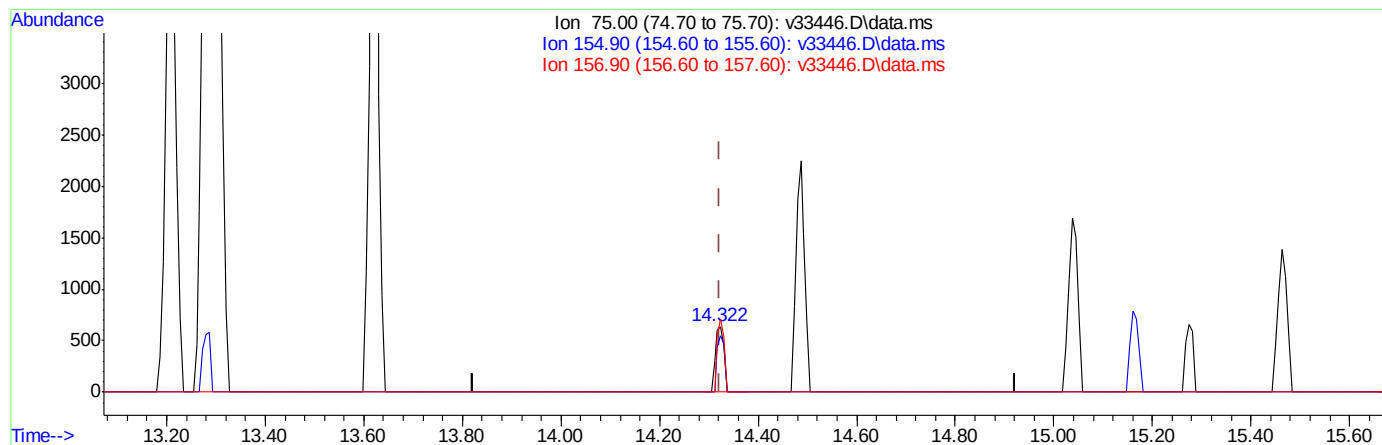
response 2904

Ion	Exp%	Act%
75.00	100	100
154.90	83.60	0.00#
156.90	101.10	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33446.D
Acq On : 1 Aug 2014 11:12 am
Operator : amym
Sample : ic1226-10
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 01 13:11:55 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



(98) 1,2-dibromo-3-chloropropane (p)

14.325min (+0.002) 7.42ug/L m

response 804

Ion	Exp%	Act%
75.00	100	100
154.90	83.60	85.42
156.90	101.10	112.38
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
 Data File : v33447.D
 Acq On : 1 Aug 2014 11:38 am
 Operator : amym
 Sample : ic1226-25
 Misc : MS32359,MSV1226,,,,5,1
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 01 13:27:15 2014
 Quant Method : C:\msdchem\1\METHODS\v140801w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Aug 01 13:11:19 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.503	65	51262	500.00	ug/L	# 0.00
4) pentafluorobenzene	6.544	168	203223	50.00	ug/L	0.00
43) 1,4-difluorobenzene	7.728	114	248666	50.00	ug/L	0.00
66) chlorobenzene-d5	11.070	82	94195	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	13.282	152	97156	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	6.423	113	53194	24.77	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	49.54%#		
60) toluene-d8 (s)	9.542	98	117848	25.07	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	50.14%#		
82) bromofluorobenzene (s)	12.219	95	42586	24.88	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	49.76%#		
Target Compounds						
						Qvalue
2) tertiary butyl alcohol	3.610	59	20852	241.90	ug/L	84
3) Ethanol	2.484	45	19372	2365.44	ug/L	# 100
5) dichlorodifluoromethane	1.492	85	230874m	25.90	ug/L	
6) chloromethane	1.609	50	133206	26.08	ug/L	98
7) vinyl chloride	1.720	62	132225	26.05	ug/L	99
8) bromomethane	2.005	96	81281	25.82	ug/L	99
9) chloroethane	2.099	64	47545	26.42	ug/L	100
10) ethyl ether	2.595	59	50810	30.79	ug/L	99
11) acetonitrile	3.282	41	114775	26.19	ug/L	# 23
12) trichlorofluoromethane	2.337	101	197778	26.43	ug/L	99
13) freon-113	2.901	101	99433	25.99	ug/L	93
14) acrolein	2.745	56	27208	125.69	ug/L	92
15) 1,1-dichloroethene	2.855	96	72845	27.01	ug/L	97
16) acetone	2.895	58	9500	25.20	ug/L	# 74
17) Methyl Acetate	3.269	43	29938	25.60	ug/L	# 93
18) methylene chloride	3.450	84	71852	26.75	ug/L	88
19) methyl tert butyl ether	3.826	73	116465	24.80	ug/L	97
20) acrylonitrile	3.766	53	16961	25.62	ug/L	94
21) allyl chloride	3.282	41	114775	26.19	ug/L	99
22) trans-1,2-dichloroethene	3.821	96	66114	26.65	ug/L	99
23) iodomethane	3.022	142	177023	26.23	ug/L	97
24) carbon disulfide	3.106	76	205759	24.84	ug/L	98
25) propionitrile	5.621	54	3422	21.36	ug/L	100
26) vinyl acetate	4.565	43	144932	24.16	ug/L	94
27) chloroprene	4.605	53	91368	26.28	ug/L	98
28) di-isopropyl ether	4.590	45	196897	24.89	ug/L	98
29) methacrylonitrile	5.900	41	19839	24.58	ug/L	94
30) 2-butanone	5.515	72	3672	21.75	ug/L	# 28
31) Hexane	4.238	41	62396	26.37	ug/L	98
32) 1,1-dichloroethane	4.493	63	116643	26.00	ug/L	100
33) tert-butyl ethyl ether	5.254	59	123650	24.33	ug/L	100
34) isobutyl alcohol	4.565	43	144932	120.79	ug/L	92
35) 2,2-dichloropropane	5.529	77	63651	23.27	ug/L	99
36) cis-1,2-dichloroethene	5.513	96	54146	25.53	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
 Data File : v33447.D
 Acq On : 1 Aug 2014 11:38 am
 Operator : amym
 Sample : ic1226-25
 Misc : MS32359,MSV1226,,,,,5,1
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 01 13:27:15 2014
 Quant Method : C:\msdchem\1\METHODS\v140801w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Aug 01 13:11:19 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) ethyl acetate	4.564	43	144933m	24.16	ug/L	
38) bromochloromethane	5.935	128	26164	25.17	ug/L	90
39) chloroform	6.153	83	95947	25.51	ug/L	99
41) Tetrahydrofuran	5.946	42	6690	23.13	ug/L	78
42) 1,1,1-trichloroethane	6.397	97	87641	24.31	ug/L	97
44) Cyclohexane	6.506	56	95646	26.13	ug/L	99
45) carbon tetrachloride	6.652	117	81460	24.34	ug/L	97
46) 1,1-dichloropropene	6.667	75	62439	26.36	ug/L	98
47) benzene	6.986	78	149407	25.94	ug/L	100
48) 1,2-dichloroethane	7.111	62	64718	25.59	ug/L	99
49) tert-amyl methyl ether	7.275	73	65307	24.45	ug/L	98
50) heptane	7.546	43	51844	25.72	ug/L	94
51) trichloroethene	8.021	95	44387	26.08	ug/L	98
52) 1,2-dichloropropane	8.370	63	41124	24.99	ug/L	100
53) dibromomethane	8.474	93	21669	25.34	ug/L	92
54) bromodichloromethane	8.725	83	44597	24.18	ug/L	97
55) Methylcyclohexane	8.325	83	59379	25.63	ug/L	98
56) 2-chloroethyl vinyl ether	9.102	63	10448	23.71	ug/L	96
57) methyl methacrylate	8.505	69	11052	23.69	ug/L	86
59) cis-1,3-dichloropropene	9.254	75	40093	24.02	ug/L	99
61) 4-methyl-2-pentanone	9.440	43	21599	22.52	ug/L	97
62) toluene	9.618	92	78323	25.29	ug/L	99
63) trans-1,3-dichloropropene	9.906	75	27067	22.96	ug/L	98
64) 1,1,2-trichloroethane	10.111	83	18558	24.03	ug/L	99
65) ethyl methacrylate	9.988	69	22135	22.35	ug/L	88
67) tetrachloroethene	10.172	166	40977	25.41	ug/L	97
68) 1,3-dichloropropane	10.274	76	35585	24.65	ug/L	98
69) dibromochloromethane	10.494	129	25501	22.49	ug/L	99
70) 1,2-dibromoethane	10.603	107	22805	24.09	ug/L	97
71) 2-hexanone	10.350	43	21190	22.46	ug/L	96
72) chlorobenzene	11.100	112	89169	25.42	ug/L	99
73) 1,1,1,2-tetrachloroethane	11.200	131	35388	22.71	ug/L	98
74) ethylbenzene	11.205	91	155208	25.13	ug/L	99
75) m,p-xylene	11.335	106	119027	50.30	ug/L	97
76) o-xylene	11.703	106	59290	24.43	ug/L	98
77) styrene	11.724	104	90799	24.81	ug/L	99
78) bromoform	11.898	173	11820	21.69	ug/L	98
79) trans-1,4-dichloro-2-b...	12.114	53	6689	22.44	ug/L	99
81) isopropylbenzene	12.055	105	155407	24.63	ug/L	98
83) bromobenzene	12.345	156	39388	25.29	ug/L	96
84) 1,1,2,2-tetrachloroethane	12.348	83	23087	23.48	ug/L	99
85) 1,2,3-trichloropropane	12.389	75	27410	24.13	ug/L	99
86) n-propylbenzene	12.443	91	176494	25.19	ug/L	99
87) 2-chlorotoluene	12.522	91	109288	25.28	ug/L	99
88) 4-chlorotoluene	12.633	91	126272	25.66	ug/L	97
89) 1,3,5-trimethylbenzene	12.613	105	138424	24.64	ug/L	100
90) tert-butylbenzene	12.898	91	72383	24.31	ug/L	97
91) 1,2,4-trimethylbenzene	12.953	105	137466	24.58	ug/L	100
92) sec-butylbenzene	13.101	105	157666	24.58	ug/L	99
93) 1,3-dichlorobenzene	13.209	146	74592	25.08	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33447.D
Acq On : 1 Aug 2014 11:38 am
Operator : amym
Sample : ic1226-25
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 01 13:27:15 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration

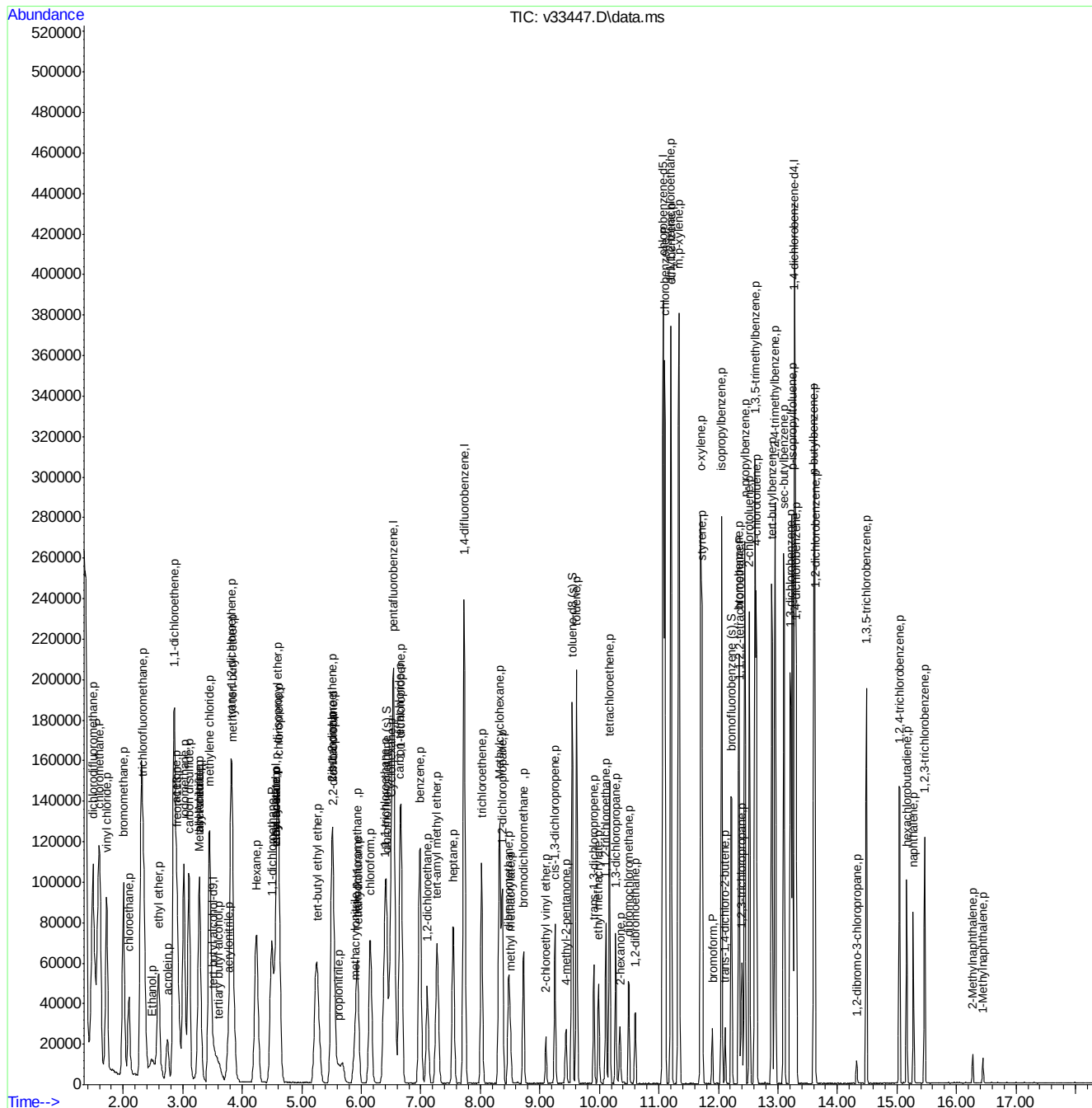
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) p-isopropyltoluene	13.242	119	142364	24.59	ug/L	97
95) 1,4-dichlorobenzene	13.305	146	76139	25.46	ug/L	99
96) 1,2-dichlorobenzene	13.622	146	70388	24.75	ug/L	97
97) n-butylbenzene	13.607	91	120819	25.11	ug/L	100
98) 1,2-dibromo-3-chloropr...	14.323	75	2527	21.03	ug/L	87
99) 1,3,5-trichlorobenzene	14.488	180	52860	24.79	ug/L	100
100) 1,2,4-trichlorobenzene	15.043	180	41545	23.97	ug/L	97
101) hexachlorobutadiene	15.164	225	16803	25.13	ug/L	94
102) naphthalene	15.277	128	57033	22.06	ug/L	100
103) 1,2,3-trichlorobenzene	15.466	180	32756	23.30	ug/L	99
104) 2-Methylnaphthalene	16.275	142	7967	8.83	ug/L	98
105) 1-Methylnaphthalene	16.445	142	7193	9.55	ug/L	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33447.D
Acq On : 1 Aug 2014 11:38 am
Operator : amym
Sample : ic1226-25
Misc : MS32359,MSV1226,,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 01 13:27:15 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



v140801w.m Mon Aug 04 12:42:46 2014

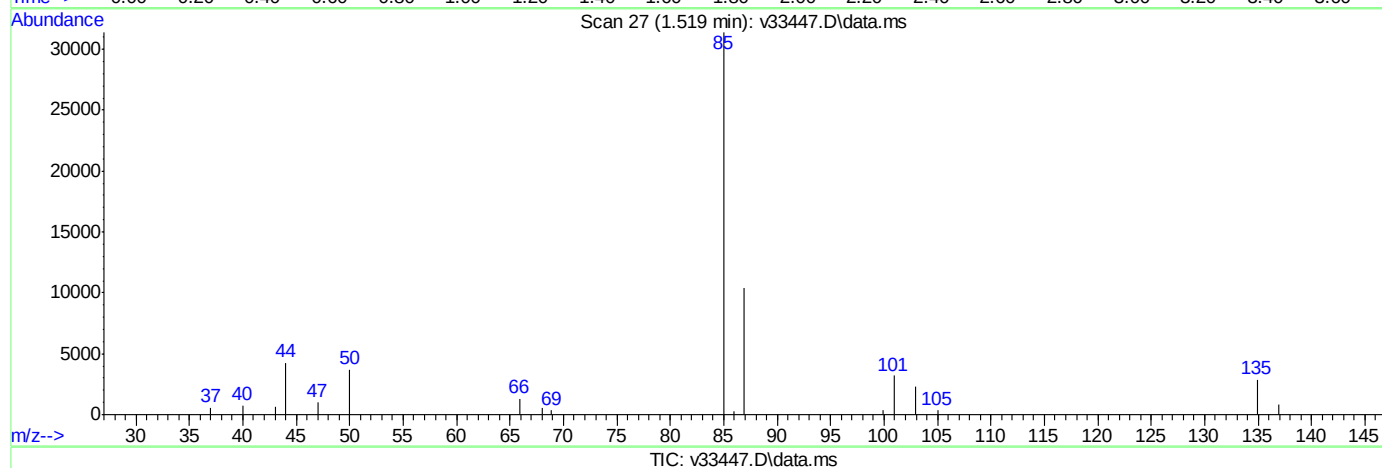
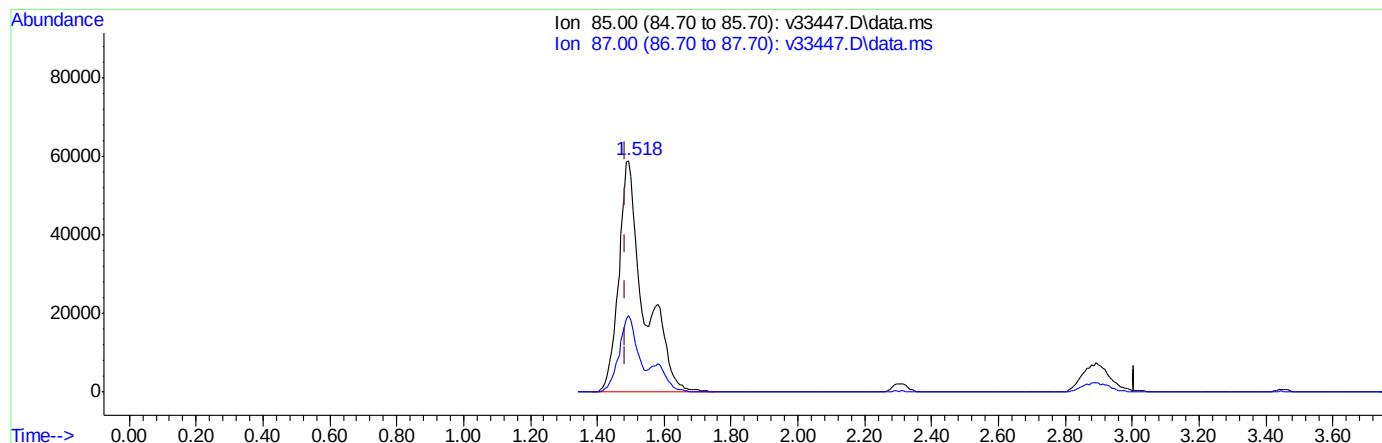
Page: 4

7.6.6

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33447.D
Acq On : 1 Aug 2014 11:38 am
Operator : amym
Sample : ic1226-25
Misc : MS32359,MSV1226,,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 01 13:11:58 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



(5) dichlorodifluoromethane (p)

1.518min (+0.033) 34.12ug/L

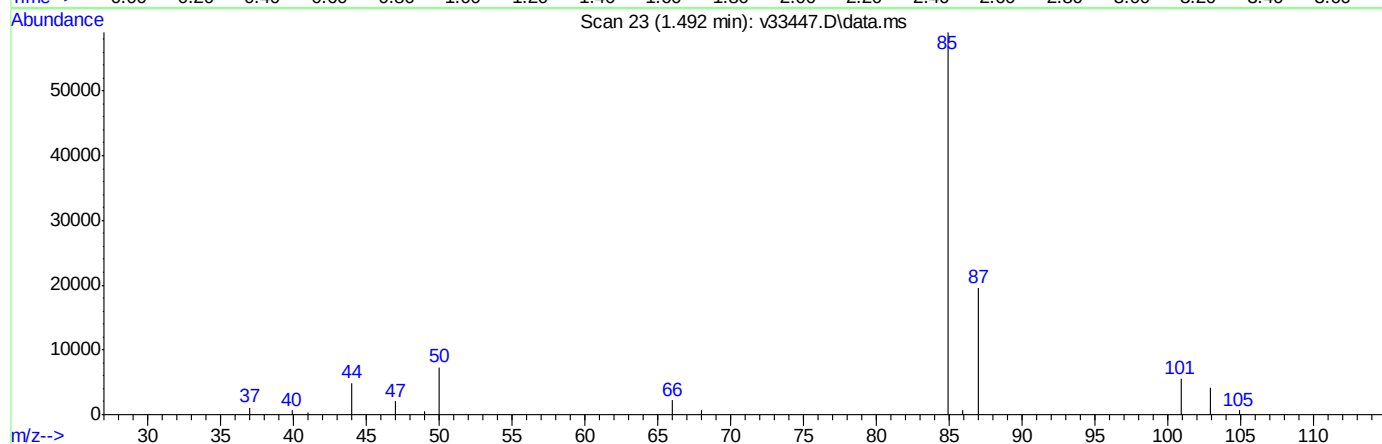
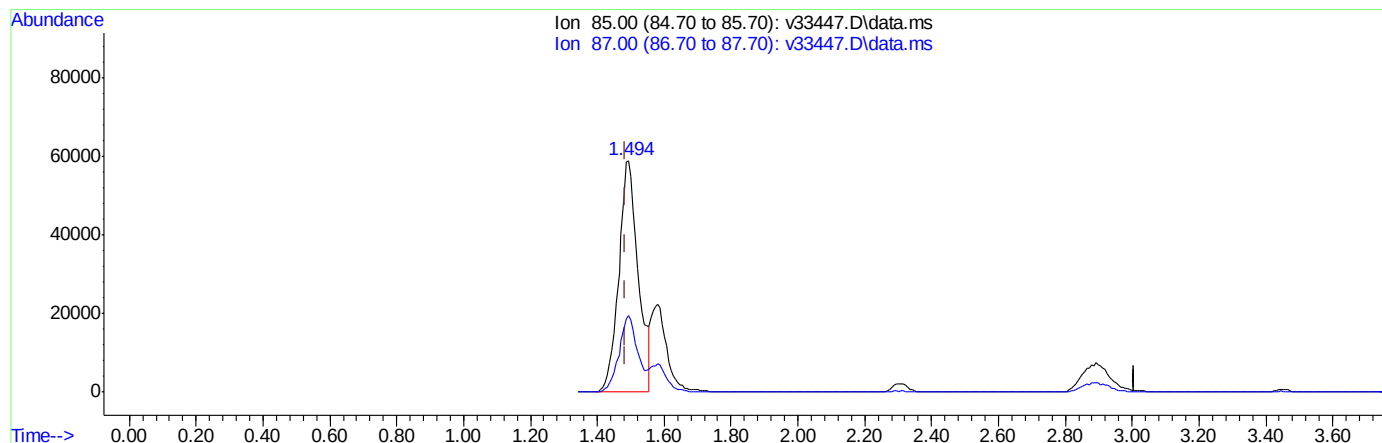
response 304186

Ion	Exp%	Act%
85.00	100	100
87.00	33.00	33.27
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33447.D
Acq On : 1 Aug 2014 11:38 am
Operator : amym
Sample : ic1226-25
Misc : MS32359,MSV1226,,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 01 13:11:58 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



TIC: v33447.D\data.ms

(5) dichlorodifluoromethane (p)

1.492min (+0.007) 25.90ug/L m

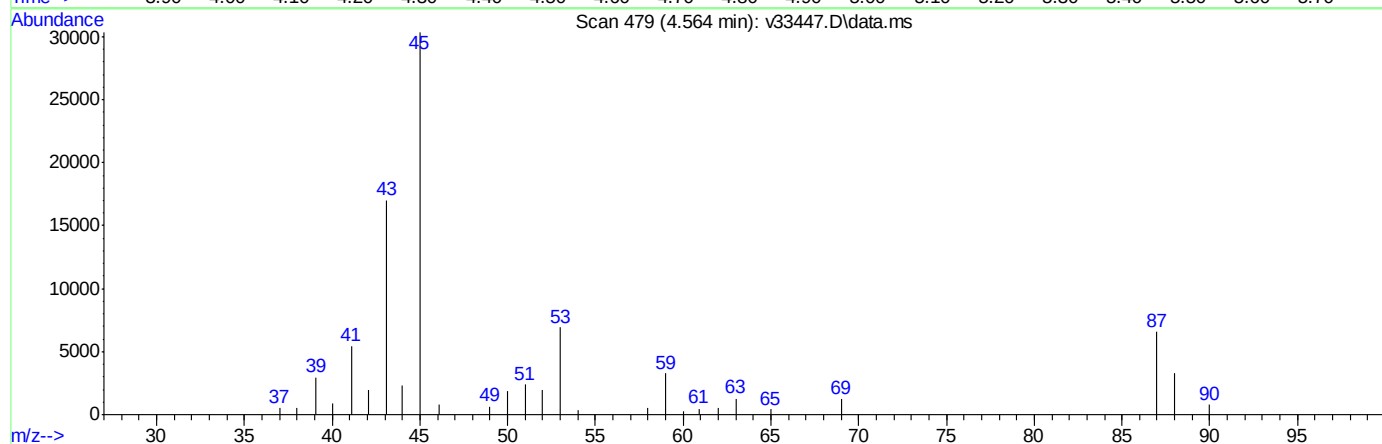
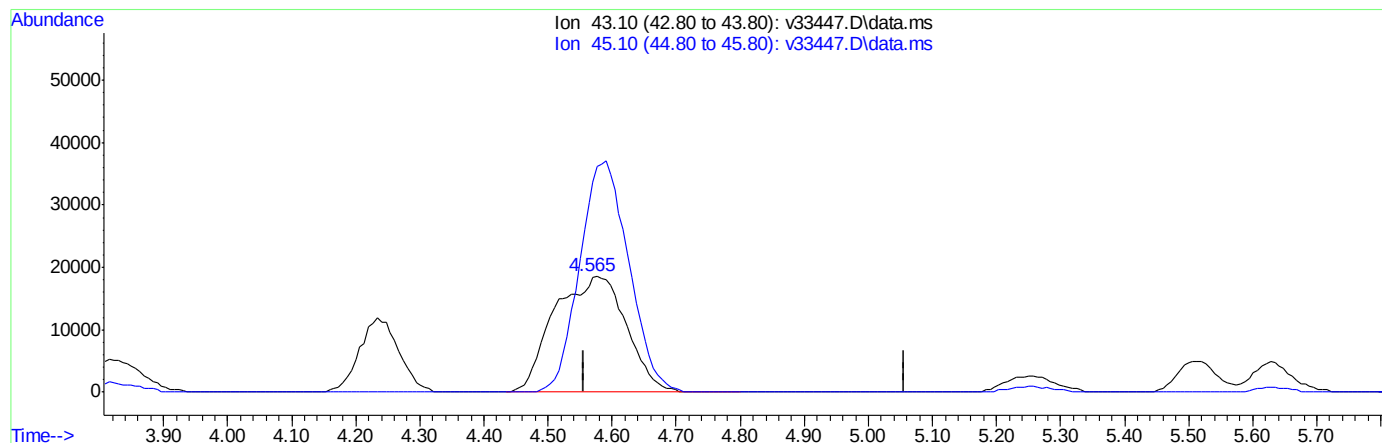
response 230874

Ion	Exp%	Act%
85.00	100	100
87.00	33.00	33.04
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33447.D
Acq On : 1 Aug 2014 11:38 am
Operator : amym
Sample : ic1226-25
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 01 13:11:58 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



(37) ethyl acetate (p)

4.564min (+0.007) 24.16ug/L m

response 144933

Ion	Exp%	Act%
43.10	100	100
45.10	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
 Data File : v33448.D
 Acq On : 1 Aug 2014 12:04 pm
 Operator : amym
 Sample : icc1226-50
 Misc : MS32359,MSV1226,,,,5,1
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 01 13:30:30 2014
 Quant Method : C:\msdchem\1\METHODS\v140801w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Aug 01 13:11:19 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.496	65	53091	500.00	ug/L	# 0.00
4) pentafluorobenzene	6.538	168	199188	50.00	ug/L	0.00
43) 1,4-difluorobenzene	7.725	114	248771	50.00	ug/L	0.00
66) chlorobenzene-d5	11.069	82	92793	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	13.282	152	97330	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	6.417	113	105243	50.00	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	100.00%		
60) toluene-d8 (s)	9.541	98	235105	50.00	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	100.00%		
82) bromofluorobenzene (s)	12.219	95	85735	50.01	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	100.02%		
Target Compounds						
						Qvalue
2) tertiary butyl alcohol	3.606	59	44639	500.00	ug/L	81
3) Ethanol	2.475	45	40639	4791.32	ug/L	# 100
5) dichlorodifluoromethane	1.478	85	423506m	48.46	ug/L	
6) chloromethane	1.601	50	250304	50.00	ug/L	98
7) vinyl chloride	1.710	62	248784	50.00	ug/L	97
8) bromomethane	1.994	96	154275	50.00	ug/L	99
9) chloroethane	2.088	64	88186	50.00	ug/L	97
10) ethyl ether	2.586	59	80867	50.00	ug/L	92
11) acetonitrile	3.270	41	214933	50.03	ug/L	# 21
12) trichlorofluoromethane	2.326	101	366719	50.00	ug/L	98
13) freon-113	2.890	101	187521	50.00	ug/L	94
14) acrolein	2.733	56	53044	250.00	ug/L	98
15) 1,1-dichloroethene	2.842	96	132188	50.00	ug/L	96
16) acetone	2.885	58	18476	50.01	ug/L	# 74
17) Methyl Acetate	3.258	43	57311	50.00	ug/L	# 95
18) methylene chloride	3.438	84	131626	50.00	ug/L	90
19) methyl tert butyl ether	3.816	73	230130	50.00	ug/L	97
20) acrylonitrile	3.754	53	32440	50.00	ug/L	88
21) allyl chloride	3.270	41	214808	50.00	ug/L	93
22) trans-1,2-dichloroethene	3.809	96	121587	50.00	ug/L	98
23) iodomethane	3.009	142	330685	50.00	ug/L	97
24) carbon disulfide	3.093	76	405888	50.00	ug/L	99
25) propionitrile	5.618	54	7851	50.00	ug/L	100
26) vinyl acetate	4.554	43	293992	50.00	ug/L	97
27) chloroprene	4.595	53	170360	50.00	ug/L	98
28) di-isopropyl ether	4.581	45	387657	50.00	ug/L	98
29) methacrylonitrile	5.892	41	39567	50.01	ug/L	94
30) 2-butanone	5.506	72	8272	50.00	ug/L	# 73
31) Hexane	4.228	41	115959	50.00	ug/L	96
32) 1,1-dichloroethane	4.483	63	219893	50.00	ug/L	98
33) tert-butyl ethyl ether	5.246	59	249115	50.00	ug/L	96
34) isobutyl alcohol	4.554	43	294007	250.00	ug/L	93
35) 2,2-dichloropropane	5.521	77	134056	50.00	ug/L	96
36) cis-1,2-dichloroethene	5.504	96	103940	50.00	ug/L	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
 Data File : v33448.D
 Acq On : 1 Aug 2014 12:04 pm
 Operator : amym
 Sample : icc1226-50
 Misc : MS32359,MSV1226,,,,5,1
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 01 13:30:30 2014
 Quant Method : C:\msdchem\1\METHODS\v140801w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Aug 01 13:11:19 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) ethyl acetate	4.557	43	294004m	50.00	ug/L	
38) bromochloromethane	5.926	128	50950	50.00	ug/L	94
39) chloroform	6.145	83	184317	50.00	ug/L	99
41) Tetrahydrofuran	5.937	42	14175	50.00	ug/L	98
42) 1,1,1-trichloroethane	6.391	97	176684	50.00	ug/L	98
44) Cyclohexane	6.499	56	183128	50.00	ug/L	97
45) carbon tetrachloride	6.646	117	167401	50.00	ug/L	98
46) 1,1-dichloropropene	6.661	75	118492	50.00	ug/L	94
47) benzene	6.981	78	288065	50.00	ug/L	99
48) 1,2-dichloroethane	7.105	62	126485	50.00	ug/L	100
49) tert-amyl methyl ether	7.271	73	133628	50.00	ug/L	97
50) heptane	7.542	43	100837	50.00	ug/L	93
51) trichloroethene	8.018	95	85151	50.01	ug/L	96
52) 1,2-dichloropropane	8.368	63	82313	50.00	ug/L	99
53) dibromomethane	8.472	93	42773	50.00	ug/L	92
54) bromodichloromethane	8.724	83	92239	50.00	ug/L	99
55) Methylcyclohexane	8.322	83	115906	50.00	ug/L	99
56) 2-chloroethyl vinyl ether	9.100	63	22041	50.00	ug/L	97
57) methyl methacrylate	8.502	69	23337	50.00	ug/L	84
58) 1,4-dioxane	8.477	88	799m	250.00	ug/L	
59) cis-1,3-dichloropropene	9.252	75	83501	50.00	ug/L	96
61) 4-methyl-2-pentanone	9.439	43	47980	50.00	ug/L	95
62) toluene	9.617	92	154941	50.00	ug/L	99
63) trans-1,3-dichloropropene	9.905	75	58981	50.00	ug/L	98
64) 1,1,2-trichloroethane	10.111	83	38633	50.00	ug/L	99
65) ethyl methacrylate	9.985	69	49537	50.00	ug/L	88
67) tetrachloroethene	10.170	166	79437	50.00	ug/L	95
68) 1,3-dichloropropane	10.273	76	71102	50.00	ug/L	100
69) dibromochloromethane	10.493	129	55844	50.00	ug/L	100
70) 1,2-dibromoethane	10.602	107	46634	50.00	ug/L	97
71) 2-hexanone	10.347	43	46461	50.00	ug/L	93
72) chlorobenzene	11.099	112	172751	50.00	ug/L	99
73) 1,1,1,2-tetrachloroethane	11.199	131	76757	50.00	ug/L	98
74) ethylbenzene	11.204	91	304231	50.00	ug/L	99
75) m,p-xylene	11.335	106	233093	100.00	ug/L	95
76) o-xylene	11.702	106	119553	50.00	ug/L	97
77) styrene	11.722	104	180236	50.00	ug/L	100
78) bromoform	11.897	173	26841	50.00	ug/L	100
79) trans-1,4-dichloro-2-b...	12.114	53	14685	50.00	ug/L	87
81) isopropylbenzene	12.054	105	316127	50.01	ug/L	98
83) bromobenzene	12.344	156	78022	50.01	ug/L	96
84) 1,1,2,2-tetrachloroethane	12.349	83	49252	50.01	ug/L	100
85) 1,2,3-trichloropropane	12.389	75	56909	50.01	ug/L	96
86) n-propylbenzene	12.443	91	350922	50.00	ug/L	100
87) 2-chlorotoluene	12.521	91	216587	50.01	ug/L	98
88) 4-chlorotoluene	12.633	91	246487	50.00	ug/L	98
89) 1,3,5-trimethylbenzene	12.612	105	281324	50.00	ug/L	100
90) tert-butylbenzene	12.898	91	147200	49.35	ug/L	96
91) 1,2,4-trimethylbenzene	12.952	105	280178	50.00	ug/L	100
92) sec-butylbenzene	13.101	105	321255	50.00	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33448.D
Acq On : 1 Aug 2014 12:04 pm
Operator : amym
Sample : icc1226-50
Misc : MS32359,MSV1226,,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 01 13:30:30 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration

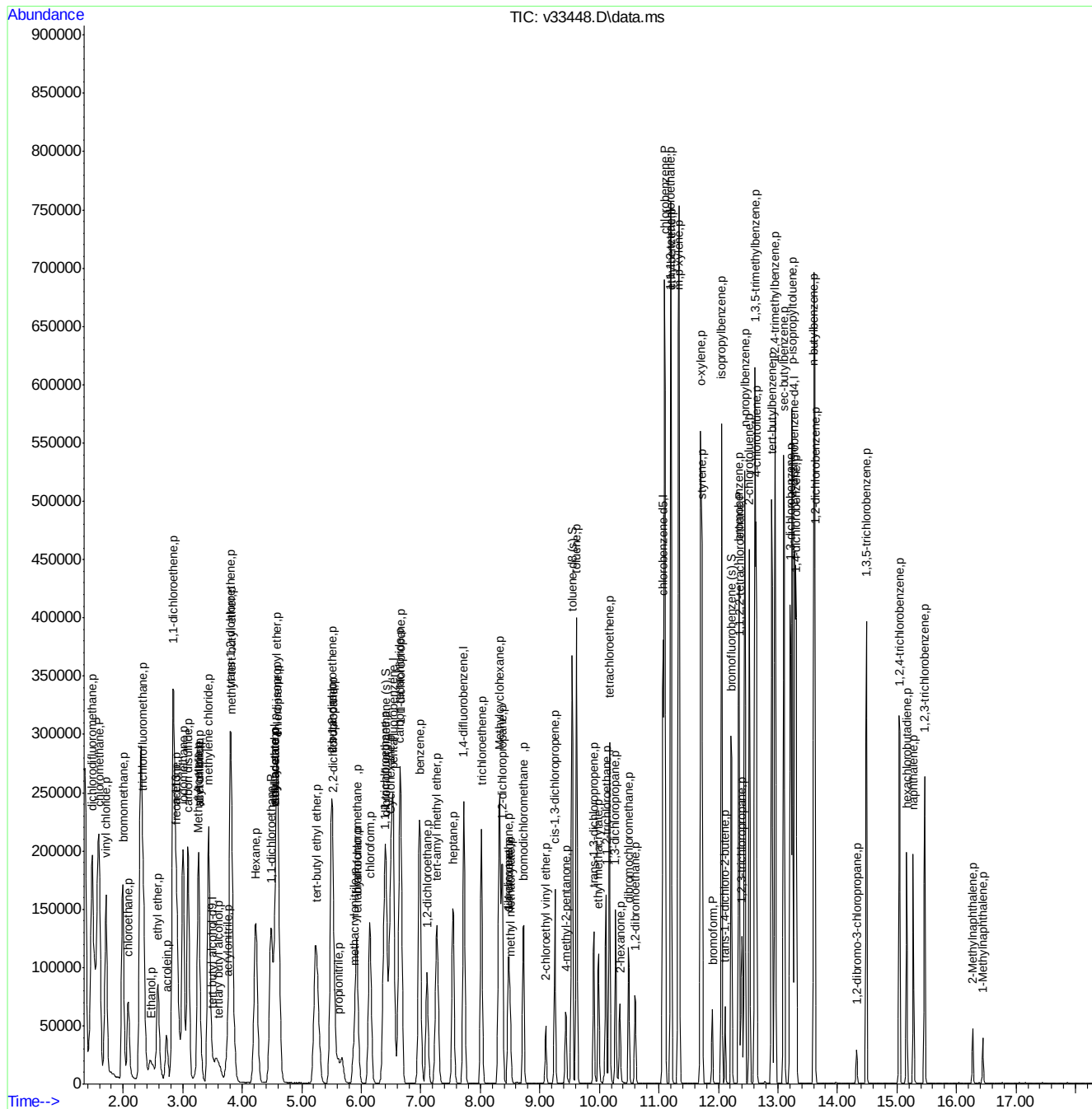
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,3-dichlorobenzene	13.209	146	148962	50.00	ug/L	99
94) p-isopropyltoluene	13.242	119	289976	50.00	ug/L	98
95) 1,4-dichlorobenzene	13.304	146	149809	50.01	ug/L	99
96) 1,2-dichlorobenzene	13.621	146	142443	50.00	ug/L	99
97) n-butylbenzene	13.607	91	241034	50.00	ug/L	98
98) 1,2-dibromo-3-chloropr...	14.323	75	6018	50.00	ug/L	93
99) 1,3,5-trichlorobenzene	14.487	180	106817	50.00	ug/L	99
100) 1,2,4-trichlorobenzene	15.043	180	86814	50.01	ug/L	99
101) hexachlorobutadiene	15.164	225	33491	50.00	ug/L	95
102) naphthalene	15.277	128	129505	50.00	ug/L	100
103) 1,2,3-trichlorobenzene	15.466	180	70418	50.00	ug/L	98
104) 2-Methylnaphthalene	16.275	142	22608	25.00	ug/L	99
105) 1-Methylnaphthalene	16.444	142	18864	25.00	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33448.D
Acq On : 1 Aug 2014 12:04 pm
Operator : amym
Sample : icc1226-50
Misc : MS32359,MSV1226,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 01 13:30:30 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



v140801w.m Mon Aug 04 12:42:49 2014

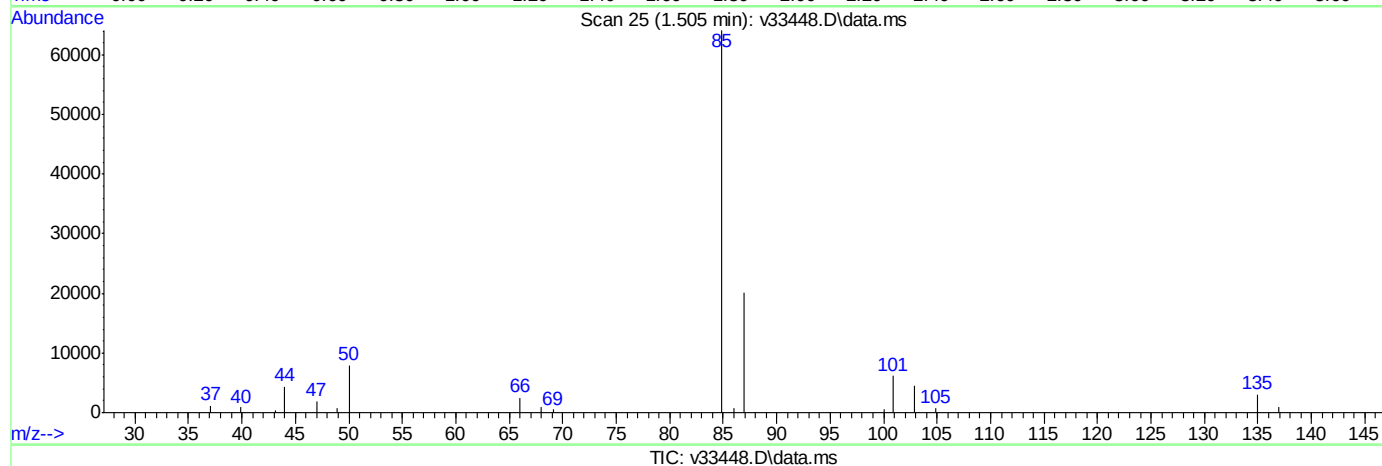
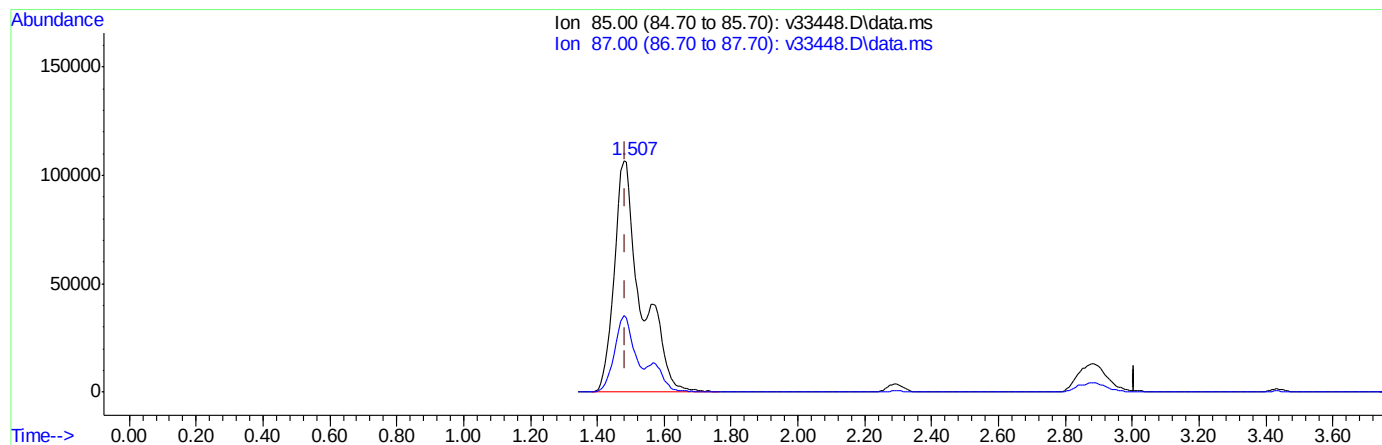
Page: 4

7.6.7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33448.D
Acq On : 1 Aug 2014 12:04 pm
Operator : amym
Sample : icc1226-50
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 01 13:12:01 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



(5) dichlorodifluoromethane (p)

1.507min (+0.022) 66.37ug/L

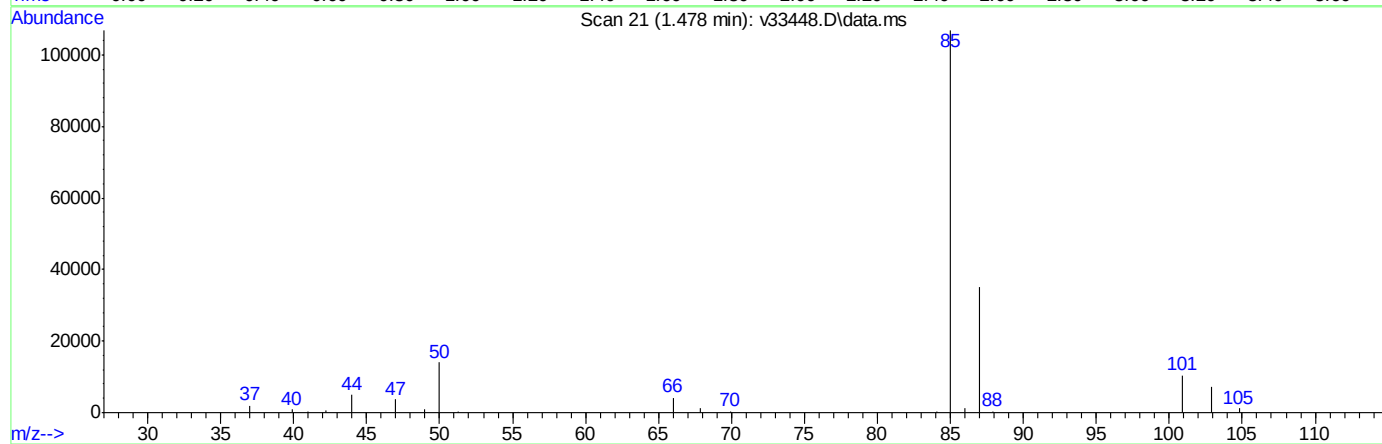
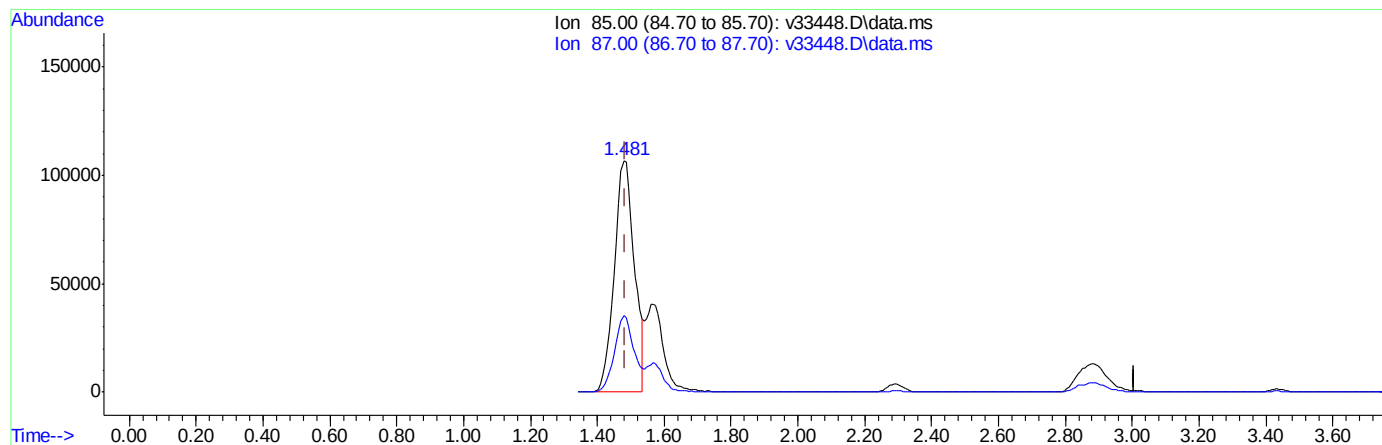
response 579945

Ion	Exp%	Act%
85.00	100	100
87.00	33.00	31.37
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33448.D
Acq On : 1 Aug 2014 12:04 pm
Operator : amym
Sample : icc1226-50
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 01 13:12:01 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



TIC: v33448.D\data.ms

(5) dichlorodifluoromethane (p)

1.478min (-0.007) 48.46ug/L m

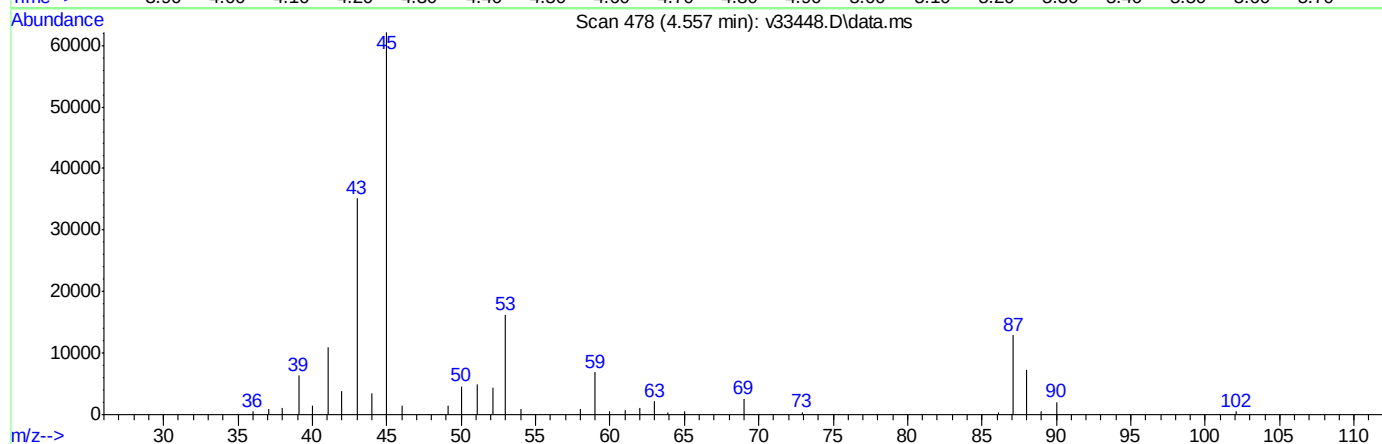
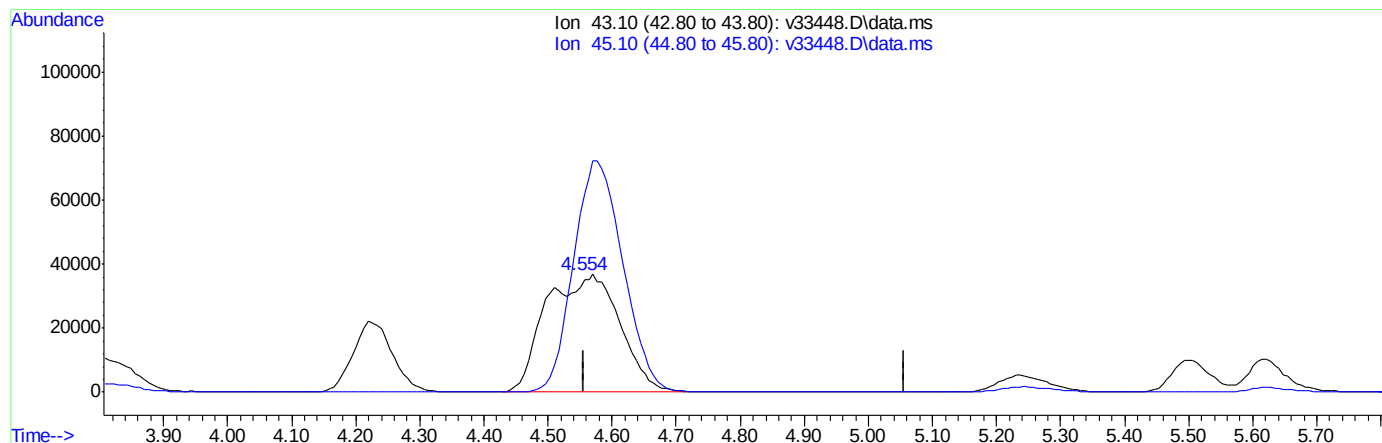
response 423506

Ion	Exp%	Act%
85.00	100	100
87.00	33.00	32.88
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33448.D
Acq On : 1 Aug 2014 12:04 pm
Operator : amym
Sample : icc1226-50
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 01 13:12:01 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



(37) ethyl acetate (p)

4.557min (0.000) 50.00ug/L m

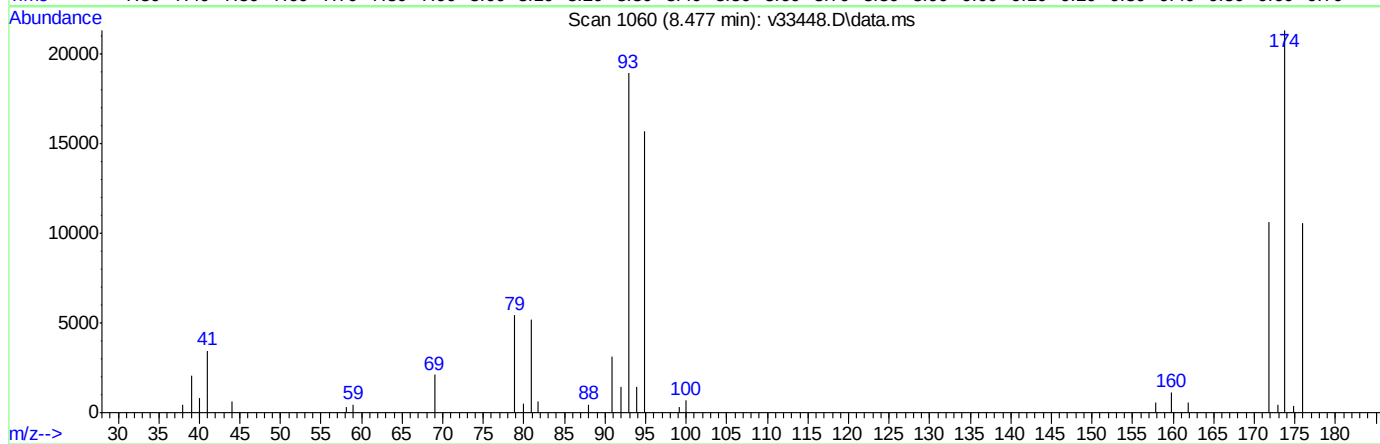
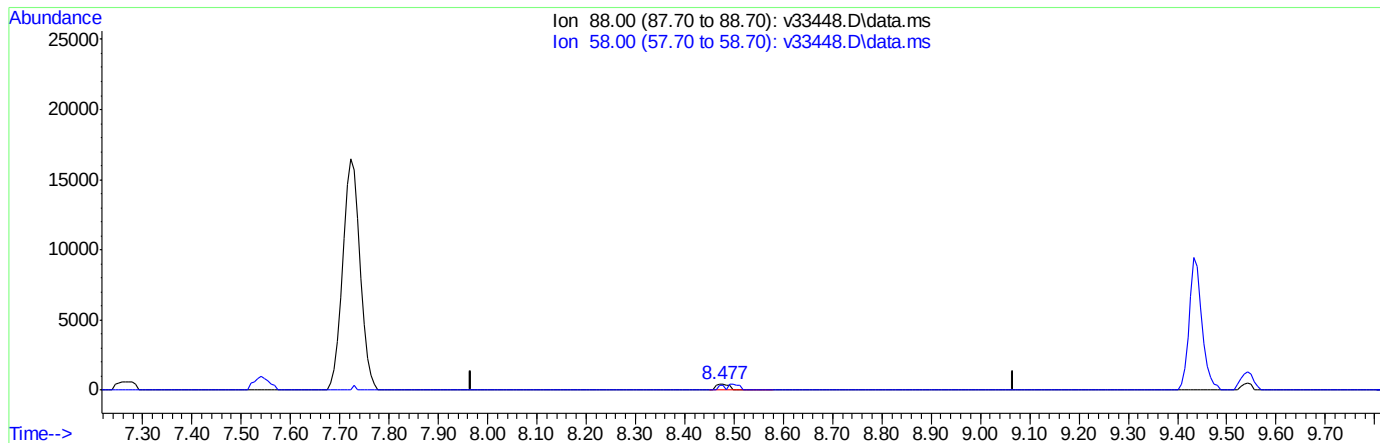
response 294004

Ion	Exp%	Act%
43.10	100	100
45.10	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33448.D
Acq On : 1 Aug 2014 12:04 pm
Operator : amym
Sample : icc1226-50
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 01 13:12:01 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



(58) 1,4-dioxane (p)

8.477min (0.000) 250.00ug/L m

response 799

Ion	Exp%	Act%
88.00	100	100
58.00	101.70	68.16#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
 Data File : v33449.D
 Acq On : 1 Aug 2014 12:30 pm
 Operator : amym
 Sample : ic1226-100
 Misc : MS32359,MSV1226,,,,5,1
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 01 13:31:35 2014
 Quant Method : C:\msdchem\1\METHODS\v140801w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Aug 01 13:11:19 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.499	65	65086	500.00	ug/L	# 0.00
4) pentafluorobenzene	6.541	168	257392	50.00	ug/L	0.00
43) 1,4-difluorobenzene	7.728	114	330884	50.00	ug/L	0.00
66) chlorobenzene-d5	11.070	82	124756	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	13.283	152	165415	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	6.420	113	283226	104.13	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	208.26%#		
60) toluene-d8 (s)	9.542	98	661300	105.74	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	211.48%#		
82) bromofluorobenzene (s)	12.219	95	258743	88.80	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	177.60%#		
Target Compounds						
2) tertiary butyl alcohol	3.608	59	116849	1067.61	ug/L	Qvalue 75
3) Ethanol	2.478	45	92826	8927.19	ug/L	# 100
5) dichlorodifluoromethane	1.485	85	927645m	82.15	ug/L	
6) chloromethane	1.609	50	563978	87.18	ug/L	98
7) vinyl chloride	1.717	62	562497	87.49	ug/L	98
8) bromomethane	2.001	96	346152	86.82	ug/L	99
9) chloroethane	2.093	64	202407	88.81	ug/L	98
10) ethyl ether	2.591	59	196157	93.85	ug/L	99
11) acetonitrile	3.274	41	544813	98.14	ug/L	# 21
12) trichlorofluoromethane	2.332	101	838569	88.48	ug/L	99
13) freon-113	2.894	101	438885	90.56	ug/L	96
14) acrolein	2.737	56	127007	463.23	ug/L	100
15) 1,1-dichloroethene	2.848	96	318735	93.30	ug/L	99
16) acetone	2.890	58	43153	90.38	ug/L	# 75
17) Methyl Acetate	3.262	43	144157	97.33	ug/L	98
18) methylene chloride	3.443	84	324150	95.29	ug/L	92
19) methyl tert butyl ether	3.823	73	596355	100.27	ug/L	96
20) acrylonitrile	3.759	53	82803	98.77	ug/L	94
21) allyl chloride	3.274	41	544813	98.14	ug/L	93
22) trans-1,2-dichloroethene	3.814	96	305252	97.15	ug/L	99
23) iodomethane	3.014	142	808450	94.60	ug/L	97
24) carbon disulfide	3.098	76	1037992	98.95	ug/L	99
25) propionitrile	5.622	54	22015	108.50	ug/L	100
26) vinyl acetate	4.558	43	784436	103.24	ug/L	99
27) chloroprene	4.600	53	442352	100.47	ug/L	99
28) di-isopropyl ether	4.586	45	1005466	100.36	ug/L	98
29) methacrylonitrile	5.896	41	105465	103.15	ug/L	95
30) 2-butanone	5.511	72	22397	104.77	ug/L	# 56
31) Hexane	4.233	41	285549	95.28	ug/L	97
32) 1,1-dichloroethane	4.488	63	563688	99.19	ug/L	99
33) tert-butyl ethyl ether	5.252	59	662569	102.91	ug/L	98
34) isobutyl alcohol	4.558	43	784436	516.19	ug/L	97
35) 2,2-dichloropropane	5.527	77	374024	107.96	ug/L	98
36) cis-1,2-dichloroethene	5.509	96	270688	100.77	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
 Data File : v33449.D
 Acq On : 1 Aug 2014 12:30 pm
 Operator : amym
 Sample : ic1226-100
 Misc : MS32359,MSV1226,,,,,5,1
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 01 13:31:35 2014
 Quant Method : C:\msdchem\1\METHODS\v140801w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Aug 01 13:11:19 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) ethyl acetate	4.557	43	784417m	103.24	ug/L	
38) bromochloromethane	5.931	128	135275	102.73	ug/L	92
39) chloroform	6.149	83	490445	102.95	ug/L	97
41) Tetrahydrofuran	5.940	42	38300	104.55	ug/L	90
42) 1,1,1-trichloroethane	6.395	97	478098	104.70	ug/L	97
44) Cyclohexane	6.503	56	474140	97.33	ug/L	99
45) carbon tetrachloride	6.651	117	475553	106.79	ug/L	100
46) 1,1-dichloropropene	6.665	75	327053	103.76	ug/L	96
47) benzene	6.984	78	789757	103.06	ug/L	99
48) 1,2-dichloroethane	7.109	62	348084	103.45	ug/L	98
49) tert-amyl methyl ether	7.274	73	387959	109.14	ug/L	94
50) heptane	7.545	43	271983	101.38	ug/L	93
51) trichloroethene	8.021	95	238650	105.37	ug/L	96
52) 1,2-dichloropropane	8.370	63	229557	104.84	ug/L	98
53) dibromomethane	8.473	93	120863	106.22	ug/L	95
54) bromodichloromethane	8.725	83	273977	111.65	ug/L	100
55) Methylcyclohexane	8.325	83	315710	102.39	ug/L	99
56) 2-chloroethyl vinyl ether	9.101	63	64286	109.64	ug/L	99
57) methyl methacrylate	8.504	69	71753	115.58	ug/L	82
58) 1,4-dioxane	8.484	88	3506	824.76	ug/L	94
59) cis-1,3-dichloropropene	9.253	75	254251	114.46	ug/L	98
61) 4-methyl-2-pentanone	9.438	43	134538	105.41	ug/L	94
62) toluene	9.618	92	438799	106.46	ug/L	100
63) trans-1,3-dichloropropene	9.906	75	185306	118.11	ug/L	99
64) 1,1,2-trichloroethane	10.112	83	109438	106.49	ug/L	99
65) ethyl methacrylate	9.985	69	147481	111.92	ug/L	88
67) tetrachloroethene	10.171	166	227507	106.51	ug/L	95
68) 1,3-dichloropropane	10.273	76	203664	106.53	ug/L	100
69) dibromochloromethane	10.494	129	176075	117.26	ug/L	99
70) 1,2-dibromoethane	10.603	107	133615	106.56	ug/L	98
71) 2-hexanone	10.347	43	126513	101.27	ug/L	91
72) chlorobenzene	11.100	112	482466	103.87	ug/L	98
73) 1,1,1,2-tetrachloroethane	11.200	131	228519	110.71	ug/L	98
74) ethylbenzene	11.205	91	871623	106.55	ug/L	100
75) m,p-xylene	11.336	106	686299	219.00	ug/L	96
76) o-xylene	11.703	106	354730	110.35	ug/L	98
77) styrene	11.723	104	537297	110.87	ug/L	99
78) bromoform	11.897	173	93844	130.03	ug/L	99
79) trans-1,4-dichloro-2-b...	12.114	53	47538	120.40	ug/L	79
81) isopropylbenzene	12.055	105	949461	88.37	ug/L	99
83) bromobenzene	12.345	156	235769	88.91	ug/L	96
84) 1,1,2,2-tetrachloroethane	12.350	83	149180	89.12	ug/L	99
85) 1,2,3-trichloropropane	12.390	75	181182	93.68	ug/L	99
86) n-propylbenzene	12.443	91	1072120	89.89	ug/L	100
87) 2-chlorotoluene	12.522	91	673855	91.56	ug/L	99
88) 4-chlorotoluene	12.633	91	794176	94.80	ug/L	98
89) 1,3,5-trimethylbenzene	12.613	105	914058	95.58	ug/L	98
90) tert-butylbenzene	12.898	91	490453	96.74	ug/L	97
91) 1,2,4-trimethylbenzene	12.953	105	923836	97.01	ug/L	99
92) sec-butylbenzene	13.102	105	1087085	99.56	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33449.D
Acq On : 1 Aug 2014 12:30 pm
Operator : amym
Sample : ic1226-100
Misc : MS32359,MSV1226,,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 01 13:31:35 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration

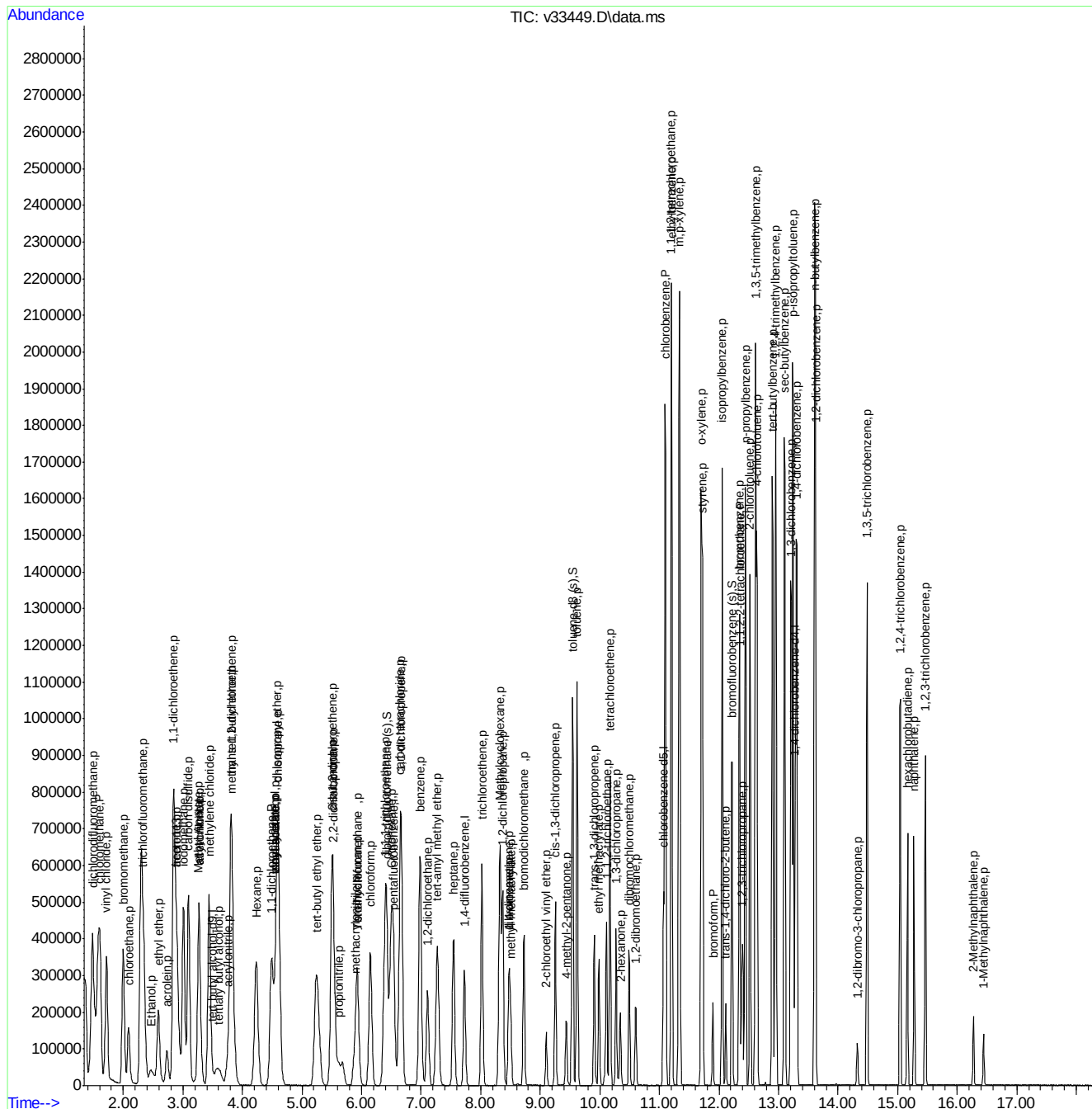
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93)	1,3-dichlorobenzene	13.210	146	505575	99.86	ug/L	97
94)	p-isopropyltoluene	13.243	119	1019807	103.46	ug/L	98
95)	1,4-dichlorobenzene	13.305	146	533776	104.85	ug/L	99
96)	1,2-dichlorobenzene	13.622	146	508691	105.07	ug/L	98
97)	n-butylbenzene	13.607	91	842455	102.83	ug/L	94
98)	1,2-dibromo-3-chloropr...	14.323	75	23564	115.20	ug/L	92
99)	1,3,5-trichlorobenzene	14.488	180	368316	101.44	ug/L	100
100)	1,2,4-trichlorobenzene	15.043	180	289607	98.16	ug/L	100
101)	hexachlorobutadiene	15.165	225	112670	98.98	ug/L	95
102)	naphthalene	15.277	128	453656	103.06	ug/L	100
103)	1,2,3-trichlorobenzene	15.466	180	239779	100.18	ug/L	100
104)	2-Methylnaphthalene	16.274	142	83465	54.31	ug/L	98
105)	1-Methylnaphthalene	16.444	142	65937	51.42	ug/L	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33449.D
Acq On : 1 Aug 2014 12:30 pm
Operator : amym
Sample : ic1226-100
Misc : MS32359,MSV1226,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 01 13:31:35 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



v140801w.m Mon Aug 04 12:42:52 2014

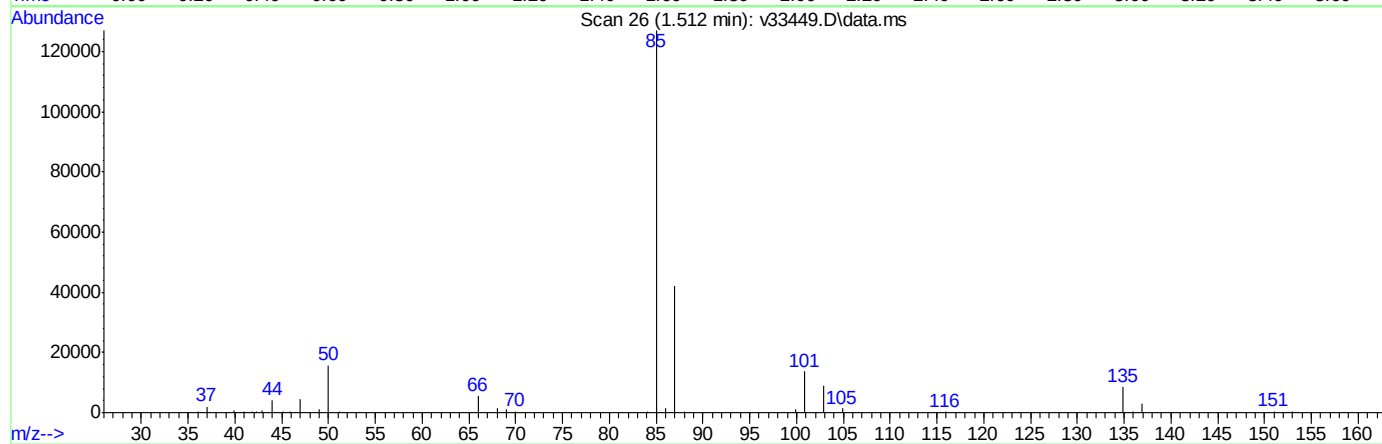
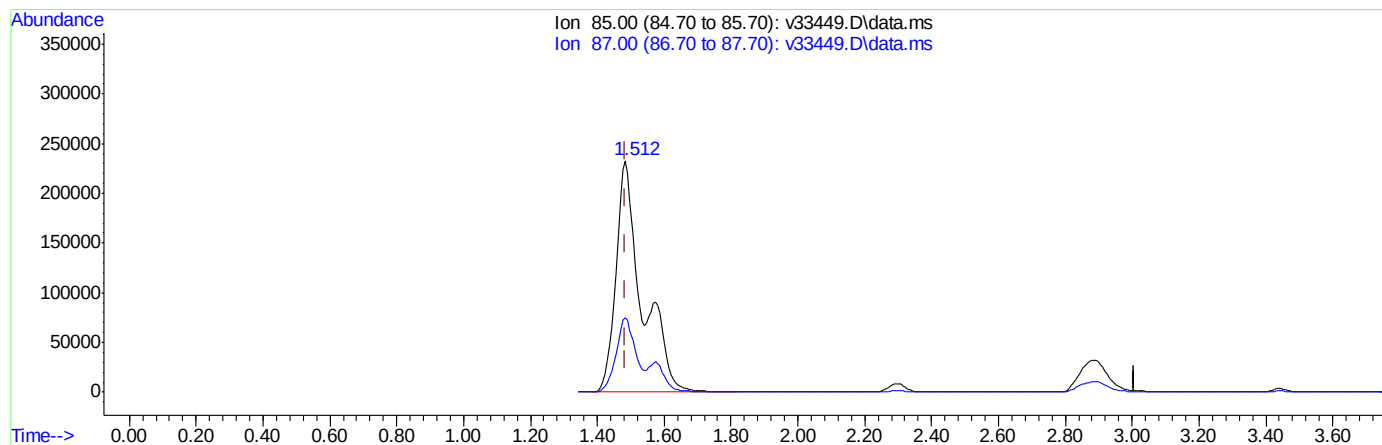
Page: 4

7.6.8

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33449.D
Acq On : 1 Aug 2014 12:30 pm
Operator : amym
Sample : ic1226-100
Misc : MS32359,MSV1226,,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 01 13:12:04 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



TIC: v33449.D\data.ms

(5) dichlorodifluoromethane (p)

1.512min (+0.027) 109.44ug/L

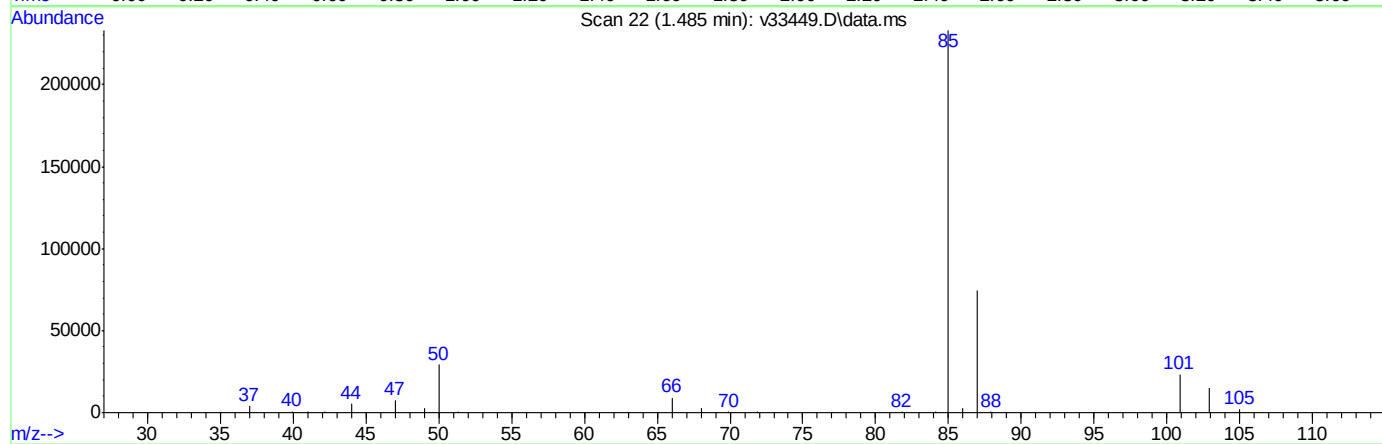
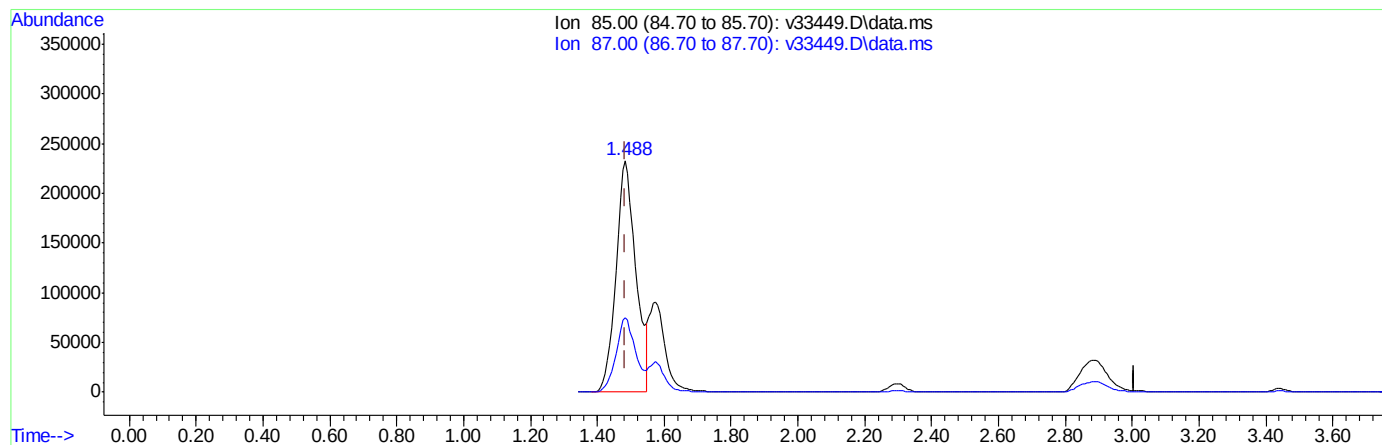
response 1235727

Ion	Exp%	Act%
85.00	100	100
87.00	33.00	33.27
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33449.D
Acq On : 1 Aug 2014 12:30 pm
Operator : amym
Sample : ic1226-100
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 01 13:12:04 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



TIC: v33449.D\data.ms

(5) dichlorodifluoromethane (p)

1.485min (-0.000) 82.15ug/L m

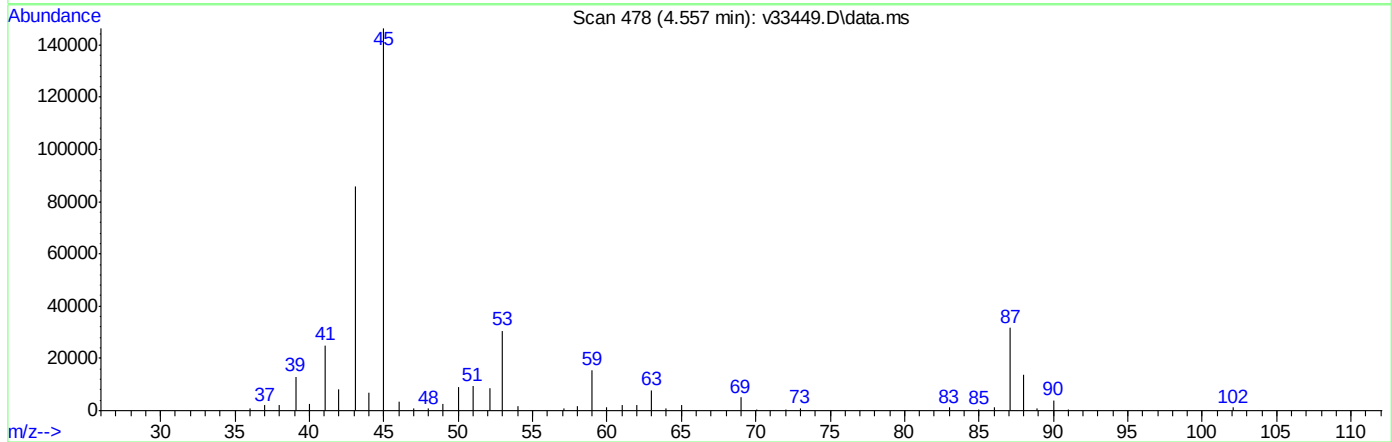
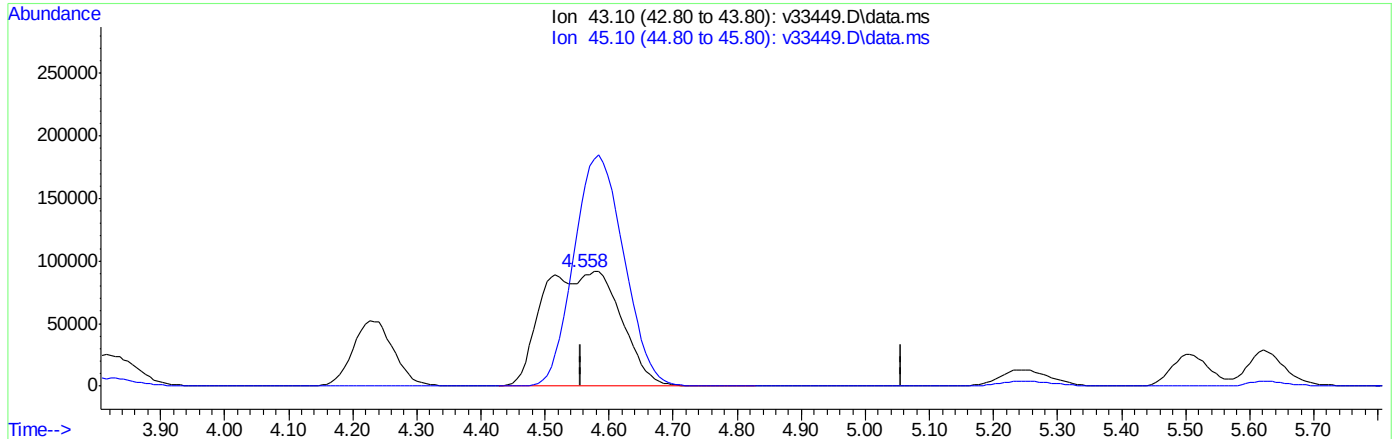
response 927645

Ion	Exp%	Act%
85.00	100	100
87.00	33.00	31.88
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33449.D
Acq On : 1 Aug 2014 12:30 pm
Operator : amym
Sample : ic1226-100
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 01 13:12:04 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:11:19 2014
Response via : Initial Calibration



(37) ethyl acetate (p)

4.557min (-0.000) 103.24ug/L m

response 784417

Ion	Exp%	Act%
43.10	100	100
45.10	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
 Data File : v33451.D
 Acq On : 1 Aug 2014 2:03 pm
 Operator : amym
 Sample : ic1226-200
 Misc : MS32359,MSV1226,,,,,5,1
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 01 14:31:47 2014
 Quant Method : C:\msdchem\1\METHODS\v140801w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Aug 01 13:35:50 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.508	65	118213	50.00	ug/L	# 0.01
4) pentafluorobenzene	6.544	168	566855	50.00	ug/L	0.00
43) 1,4-difluorobenzene	7.730	114	786811	50.00	ug/L	0.00
66) chlorobenzene-d5	11.072	82	328611	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	13.284	152	422691	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	6.424	113	1211182	203.16	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	406.32%#		
60) toluene-d8 (s)	9.544	98	3329888	218.71	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	437.42%#		
82) bromofluorobenzene (s)	12.221	95	1420156	194.38	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	388.76%#		
Target Compounds						
						Qvalue
2) tertiary butyl alcohol	3.616	59	426637	182.86	ug/L	# 66
3) Ethanol	2.489	45	304542	596.22	ug/L	# 100
5) dichlorodifluoromethane	1.498	85	2342019m	101.08	ug/L	
6) chloromethane	1.621	50	1520384	112.56	ug/L	98
7) vinyl chloride	1.728	62	1506921	114.03	ug/L	98
8) bromomethane	2.011	96	941384	112.62	ug/L	100
9) chloroethane	2.101	64	572311	116.99	ug/L	100
10) ethyl ether	2.595	59	525476	100.89	ug/L	92
11) acetonitrile	3.281	41	1786507	137.97	ug/L	# 23
12) trichlorofluoromethane	2.339	101	2339437	120.32	ug/L	100
13) freon-113	2.900	101	1358292	150.95	ug/L	96
14) acrolein	2.745	56	391097	499.75	ug/L	100
15) 1,1-dichloroethene	2.854	96	1012821	135.98	ug/L	97
16) acetone	2.898	58	141301	141.89	ug/L	# 77
17) Methyl Acetate	3.268	43	451576	125.83	ug/L	95
18) methylene chloride	3.449	84	1087969	130.38	ug/L	# 84
19) methyl tert butyl ether	3.829	73	2155399	148.04	ug/L	96
20) acrylonitrile	3.764	53	277425	142.69	ug/L	96
21) allyl chloride	3.281	41	1786507	137.98	ug/L	89
22) trans-1,2-dichloroethene	3.820	96	1088966	149.39	ug/L	97
23) iodomethane	3.020	142	2591997	127.34	ug/L	96
24) carbon disulfide	3.104	76	3454920	159.49	ug/L	99
25) propionitrile	5.627	54	90914	194.93	ug/L	100
26) vinyl acetate	4.561	43	2920631	157.93	ug/L	100
27) chloroprene	4.606	53	1624278	160.47	ug/L	94
28) di-isopropyl ether	4.592	45	3614862	151.74	ug/L	96
29) methacrylonitrile	5.901	41	425887	167.79	ug/L	94
30) 2-butanone	5.516	72	94988	189.66	ug/L	# 52
31) Hexane	4.238	41	1006271	158.54	ug/L	# 92
32) 1,1-dichloroethane	4.494	63	2120814	147.43	ug/L	99
33) tert-butyl ethyl ether	5.258	59	2743869	176.75	ug/L	98
34) isobutyl alcohol	4.561	43	2919671	530.79	ug/L	99
35) 2,2-dichloropropane	5.532	77	1652889	209.20	ug/L	97
36) cis-1,2-dichloroethene	5.514	96	1127775	171.22	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
 Data File : v33451.D
 Acq On : 1 Aug 2014 2:03 pm
 Operator : amym
 Sample : ic1226-200
 Misc : MS32359,MSV1226,,,,,5,1
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 01 14:31:47 2014
 Quant Method : C:\msdchem\1\METHODS\v140801w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Aug 01 13:35:50 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) ethyl acetate	4.563	43	2916118m	157.71	ug/L	
38) bromochloromethane	5.935	128	568873	175.62	ug/L #	86
39) chloroform	6.153	83	2065117	171.65	ug/L	97
41) Tetrahydrofuran	5.944	42	156769	197.62	ug/L	91
42) 1,1,1-trichloroethane	6.399	97	2070969	199.55	ug/L	95
44) Cyclohexane	6.507	56	2004590	144.09	ug/L	97
45) carbon tetrachloride	6.654	117	2087695	202.85	ug/L	100
46) 1,1-dichloropropene	6.669	75	1446168	183.80	ug/L	96
47) benzene	6.988	78	3607425	151.62	ug/L	99
48) 1,2-dichloroethane	7.112	62	1501066	164.60	ug/L	98
49) tert-amyl methyl ether	7.277	73	1896294	195.74	ug/L	93
50) heptane	7.547	43	1194158	188.14	ug/L	90
51) trichloroethene	8.023	95	1143072	180.53	ug/L	96
52) 1,2-dichloropropane	8.372	63	1105351	187.88	ug/L	99
53) dibromomethane	8.475	93	577293	181.77	ug/L	89
54) bromodichloromethane	8.727	83	1371778	209.72	ug/L	99
55) Methylcyclohexane	8.328	83	1488042	198.39	ug/L	96
56) 2-chloroethyl vinyl ether	9.102	63	319391	228.31	ug/L	97
57) methyl methacrylate	8.505	69	367564	204.47	ug/L #	77
58) 1,4-dioxane	8.492	88	22804	987.08	ug/L	98
59) cis-1,3-dichloropropene	9.255	75	1333531	227.19	ug/L	99
61) 4-methyl-2-pentanone	9.439	43	659336	196.82	ug/L	91
62) toluene	9.620	92	2329855	199.45	ug/L	100
63) trans-1,3-dichloropropene	9.907	75	1039185	255.57	ug/L	98
64) 1,1,2-trichloroethane	10.114	83	566805	202.28	ug/L	100
65) ethyl methacrylate	9.987	69	806398	214.91	ug/L	85
67) tetrachloroethene	10.174	166	1249737	196.83	ug/L	93
68) 1,3-dichloropropane	10.275	76	1082459	186.14	ug/L	99
69) dibromochloromethane	10.495	129	996653	247.94	ug/L	99
70) 1,2-dibromoethane	10.604	107	715442	197.46	ug/L	97
71) 2-hexanone	10.347	43	698187	207.96	ug/L	87
72) chlorobenzene	11.102	112	2610804	183.59	ug/L	98
73) 1,1,1,2-tetrachloroethane	11.202	131	1279402	229.41	ug/L	98
74) ethylbenzene	11.207	91	4779594	186.87	ug/L	99
75) m,p-xylene	11.338	106	3800926	353.26	ug/L	97
76) o-xylene	11.704	106	1968262	199.91	ug/L	95
77) styrene	11.725	104	3040786	207.54	ug/L	100
78) bromoform	11.899	173	573316	232.30	ug/L	99
79) trans-1,4-dichloro-2-b...	12.116	53	265692	207.88	ug/L	63
81) isopropylbenzene	12.057	105	5367464	186.38	ug/L	99
83) bromobenzene	12.347	156	1333624	175.79	ug/L	98
84) 1,1,2,2-tetrachloroethane	12.352	83	813606	178.20	ug/L	99
85) 1,2,3-trichloropropane	12.391	75	1023254	197.87	ug/L	100
86) n-propylbenzene	12.445	91	6062200	185.83	ug/L	100
87) 2-chlorotoluene	12.524	91	3756743	178.22	ug/L	99
88) 4-chlorotoluene	12.635	91	4254812	176.78	ug/L	98
89) 1,3,5-trimethylbenzene	12.615	105	5071988	191.87	ug/L	98
90) tert-butylbenzene	12.900	91	2753581	203.56	ug/L	98
91) 1,2,4-trimethylbenzene	12.955	105	5026943	188.94	ug/L	99
92) sec-butylbenzene	13.104	105	5927837	203.43	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
 Data File : v33451.D
 Acq On : 1 Aug 2014 2:03 pm
 Operator : amym
 Sample : ic1226-200
 Misc : MS32359,MSV1226,,,,5,1
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 01 14:31:47 2014
 Quant Method : C:\msdchem\1\METHODS\v140801w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Aug 01 13:35:50 2014
 Response via : Initial Calibration

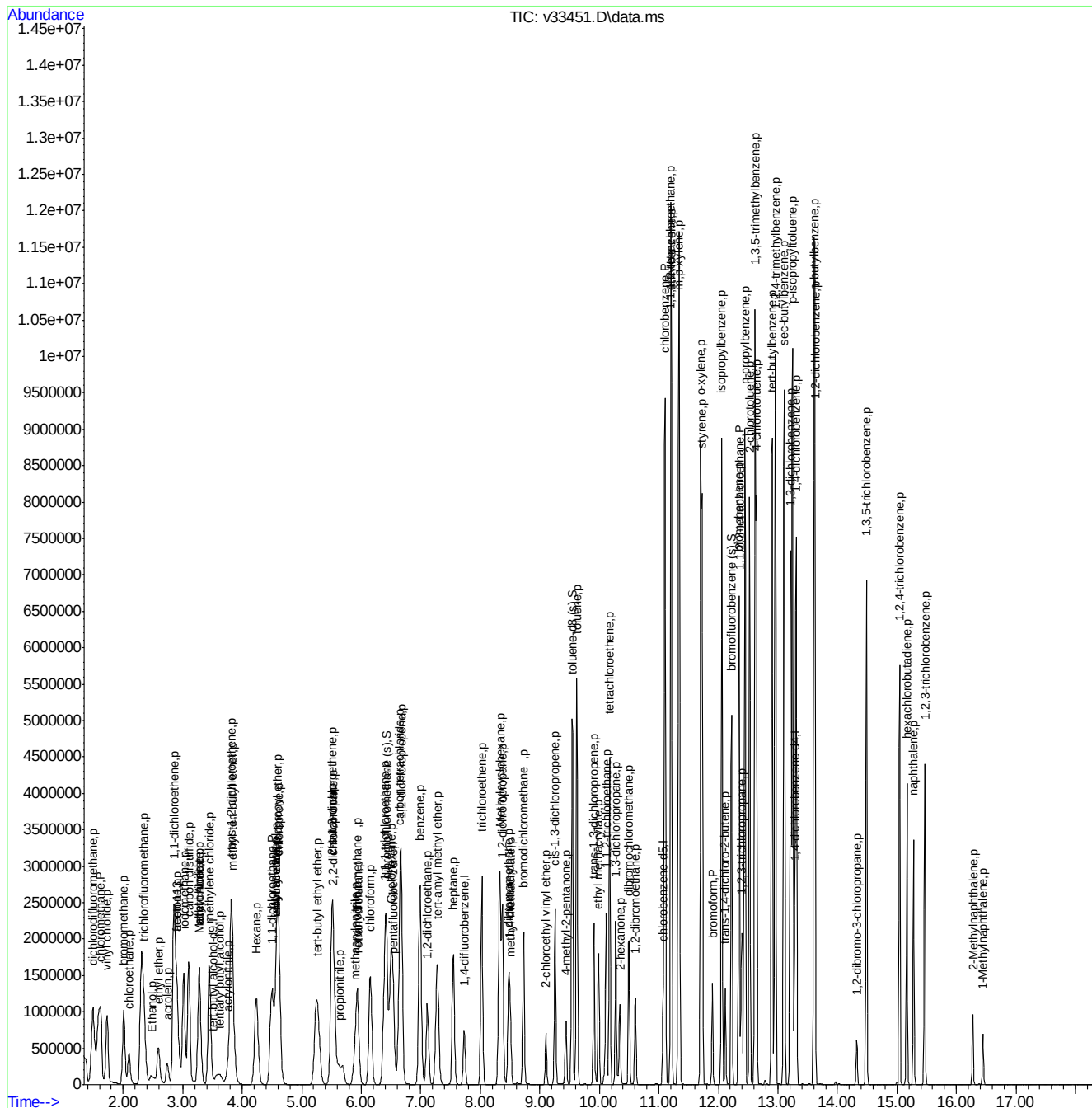
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93)	1,3-dichlorobenzene	13.212	146	2702098	178.99	ug/L	98
94)	p-isopropyltoluene	13.244	119	5342278	199.80	ug/L	98
95)	1,4-dichlorobenzene	13.307	146	2678669	175.50	ug/L	99
96)	1,2-dichlorobenzene	13.623	146	2493341	174.42	ug/L	99
97)	n-butylbenzene	13.609	91	4270410	193.04	ug/L	95
98)	1,2-dibromo-3-chloropr...	14.325	75	120082	209.62	ug/L	85
99)	1,3,5-trichlorobenzene	14.489	180	1932840	181.52	ug/L	99
100)	1,2,4-trichlorobenzene	15.045	180	1544715	183.71	ug/L	97
101)	hexachlorobutadiene	15.166	225	660826	189.78	ug/L	97
102)	naphthalene	15.279	128	2364220	198.27	ug/L	100
103)	1,2,3-trichlorobenzene	15.467	180	1268642	186.48	ug/L	99
104)	2-Methylnaphthalene	16.276	142	429778	105.99	ug/L	98
105)	1-Methylnaphthalene	16.446	142	315066	97.83	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33451.D
Acq On : 1 Aug 2014 2:03 pm
Operator : amym
Sample : ic1226-200
Misc : MS32359,MSV1226,,,5,1
ALS Vial : 13 Sample Multiplier: 1

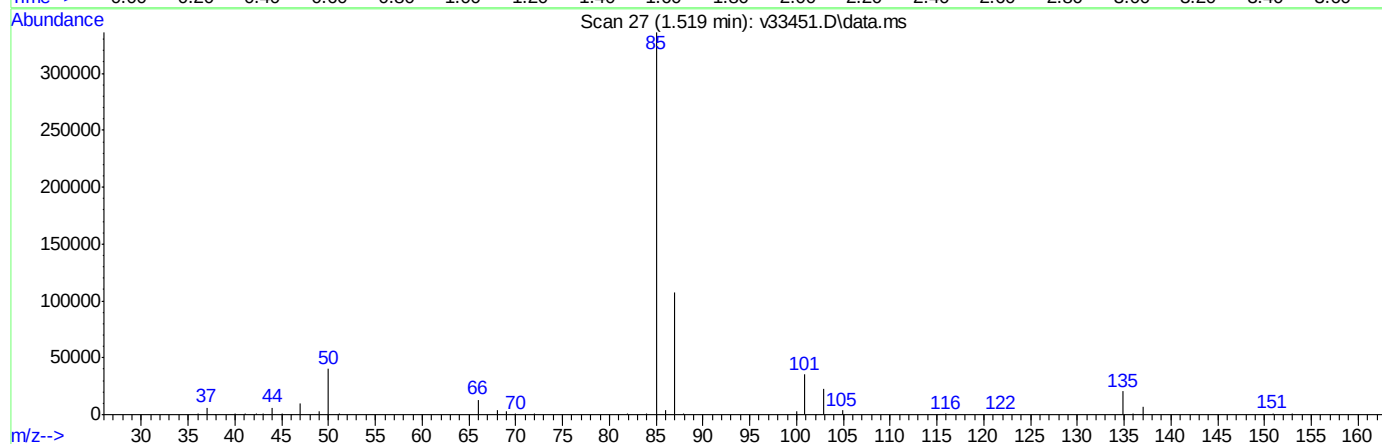
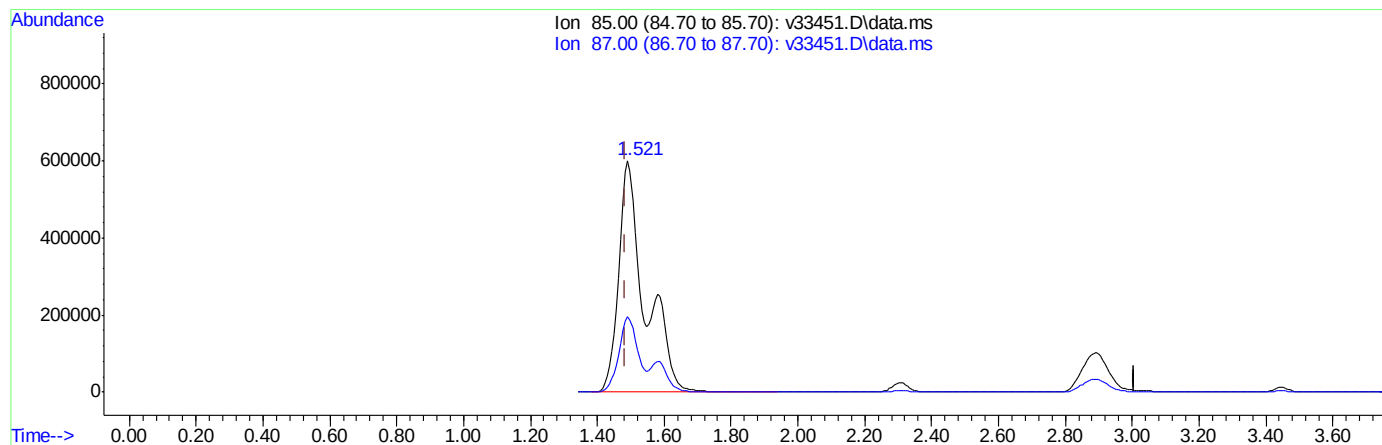
Quant Time: Aug 01 14:31:47 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:35:50 2014
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33451.D
Acq On : 1 Aug 2014 2:03 pm
Operator : amym
Sample : ic1226-200
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 01 14:31:15 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:35:50 2014
Response via : Initial Calibration



TIC: v33451.D\data.ms

(5) dichlorodifluoromethane (p)

1.521min (+0.036) 137.57ug/L

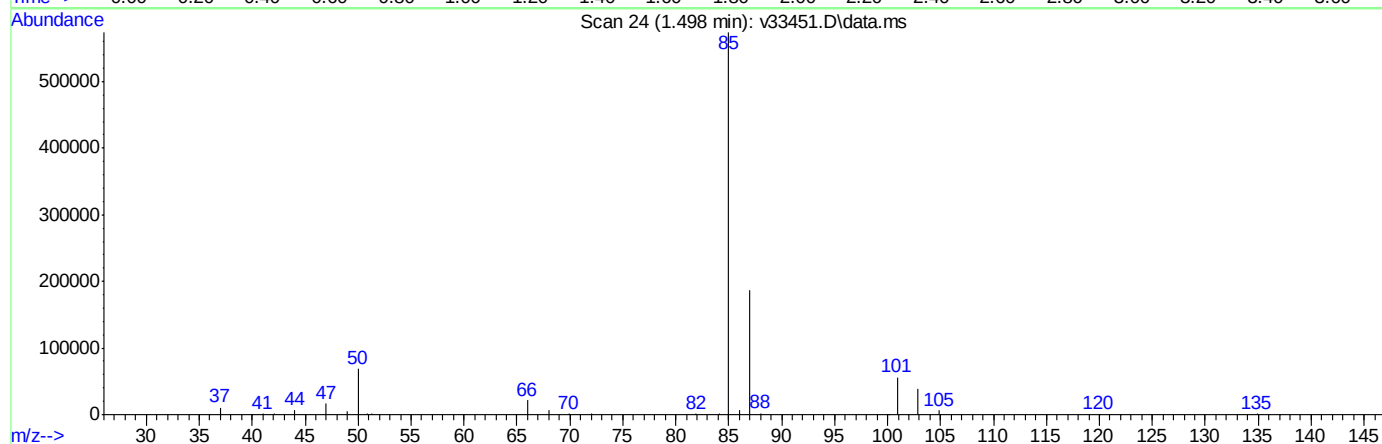
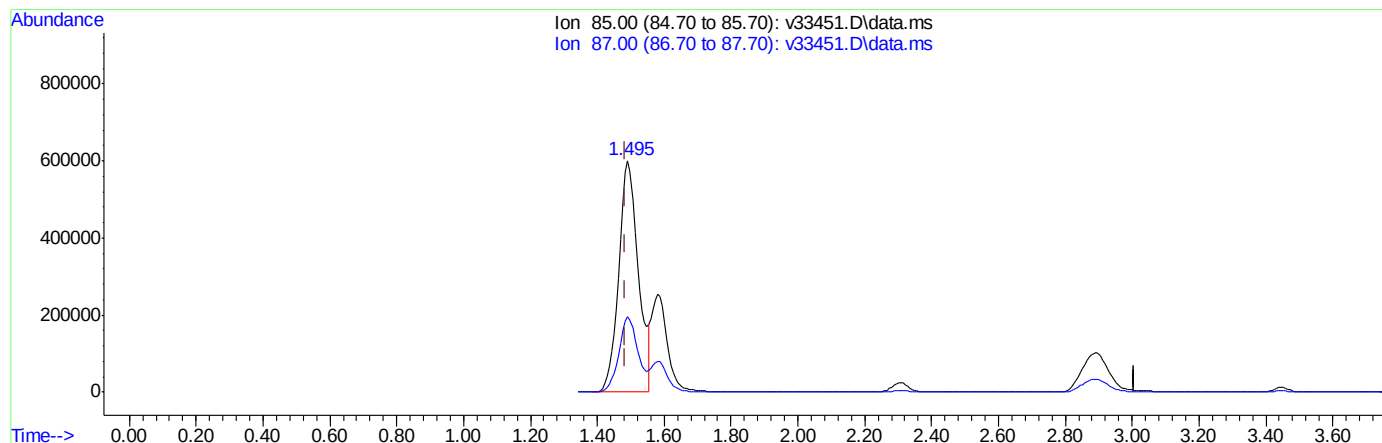
response 3187376

Ion	Exp%	Act%
85.00	100	100
87.00	33.00	31.92
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33451.D
Acq On : 1 Aug 2014 2:03 pm
Operator : amym
Sample : ic1226-200
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 01 14:31:15 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:35:50 2014
Response via : Initial Calibration



TIC: v33451.D\data.ms

(5) dichlorodifluoromethane (p)

1.498min (+0.013) 101.08ug/L m

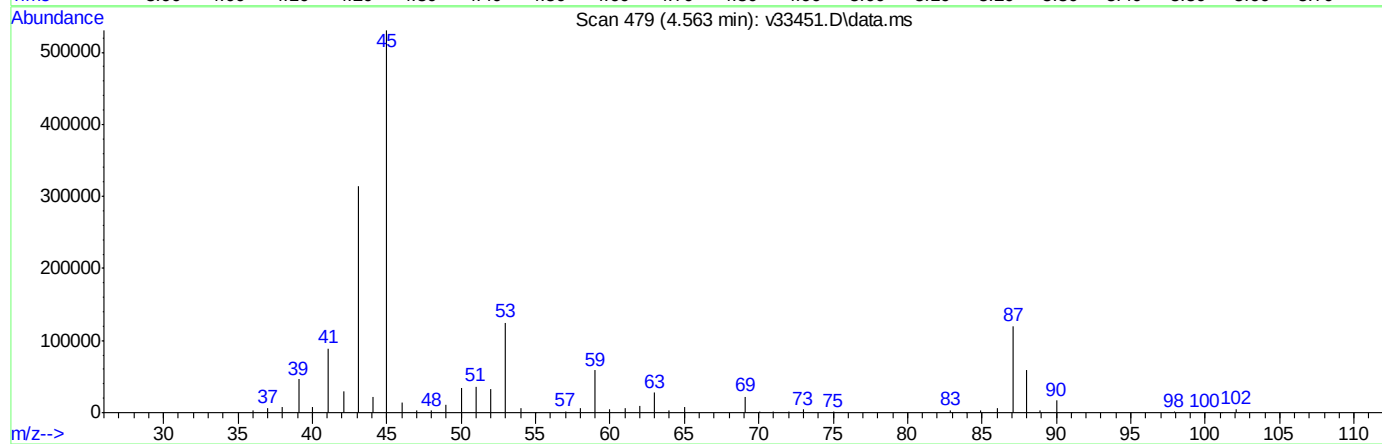
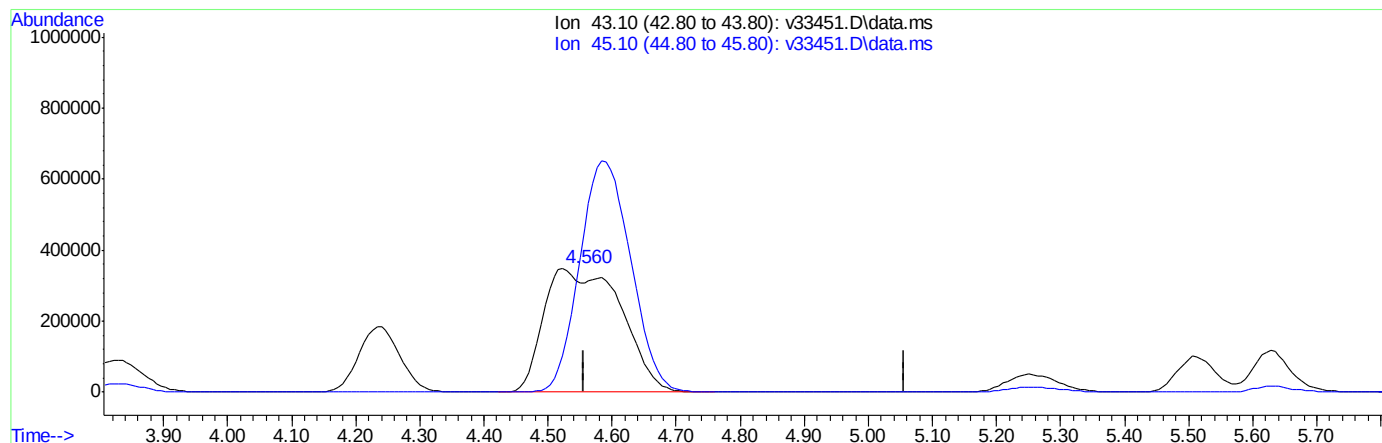
response 2342019

Ion	Exp%	Act%
85.00	100	100
87.00	33.00	32.69
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33451.D
Acq On : 1 Aug 2014 2:03 pm
Operator : amym
Sample : ic1226-200
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 01 14:31:15 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 13:35:50 2014
Response via : Initial Calibration



(37) ethyl acetate (p)

4.563min (+0.007) 157.71ug/L m

response 2916118

Ion	Exp%	Act%
43.10	100	100
45.10	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
 Data File : v33452.D
 Acq On : 1 Aug 2014 2:29 pm
 Operator : amym
 Sample : ic1226-400
 Misc : MS32359,MSV1226,,,,,5,1
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 01 15:30:37 2014
 Quant Method : C:\msdchem\1\METHODS\v140801w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Aug 01 14:32:25 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.506	65	116585	50.00	ug/L	# 0.01
4) pentafluorobenzene	6.542	168	533549	50.00	ug/L	0.00
43) 1,4-difluorobenzene	7.729	114	763198	50.00	ug/L	0.00
66) chlorobenzene-d5	11.072	82	339274	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	13.284	152	396882	50.00	ug/L	0.00

System Monitoring Compounds						
40) dibromofluoromethane (s)	6.421	113	2492943	447.40	ug/L	0.00
Spiked Amount 50.000	Range 70	- 130	Recovery	=	894.80%#	
60) toluene-d8 (s)	9.545	98	7206942	492.50	ug/L	0.00
Spiked Amount 50.000	Range 70	- 130	Recovery	=	985.00%#	
82) bromofluorobenzene (s)	12.221	95	2948469	434.96	ug/L	0.00
Spiked Amount 50.000	Range 70	- 130	Recovery	=	869.92%#	

Target Compounds						Qvalue
2) tertiary butyl alcohol	3.614	59	915256	479.38	ug/L	# 60
3) Ethanol	2.477	45	531169	1094.77	ug/L	# 100
5) dichlorodifluoromethane	1.485	85	4484272m	205.33	ug/L	
6) chloromethane	1.614	50	2942221	231.80	ug/L	97
7) vinyl chloride	1.718	62	2960560	237.20	ug/L	98
8) bromomethane	2.001	96	1704592	215.59	ug/L	100
9) chloroethane	2.090	64	1046603	225.82	ug/L	98
10) ethyl ether	2.588	59	973663	218.45	ug/L	90
11) acetonitrile	3.272	41	3250186	290.39	ug/L	# 22
12) trichlorofluoromethane	2.330	101	4379118	238.87	ug/L	98
13) freon-113	2.889	101	2606030	335.25	ug/L	95
14) acrolein	2.734	56	744992	1009.40	ug/L	99
15) 1,1-dichloroethene	2.844	96	1884209	289.10	ug/L	94
16) acetone	2.892	58	209672	245.24	ug/L	# 69
17) Methyl Acetate	3.260	43	861036	280.42	ug/L	# 93
18) methylene chloride	3.440	84	2075285	285.87	ug/L	# 81
19) methyl tert butyl ether	3.823	73	4378767	351.02	ug/L	94
20) acrylonitrile	3.756	53	533393	330.27	ug/L	97
21) allyl chloride	3.272	41	3250186	290.41	ug/L	87
22) trans-1,2-dichloroethene	3.812	96	2048407	325.86	ug/L	96
23) iodomethane	3.010	142	4938254	277.61	ug/L	95
24) carbon disulfide	3.093	76	6717829	362.69	ug/L	99
25) propionitrile	5.622	54	180418	518.60	ug/L	100
26) vinyl acetate	4.556	43	5562540	361.21	ug/L	100
27) chloroprene	4.600	53	3019502	358.07	ug/L	92
28) di-isopropyl ether	4.588	45	6839176	336.08	ug/L	96
29) methacrylonitrile	5.897	41	836002	413.23	ug/L	89
30) 2-butanone	5.514	72	161698	414.65	ug/L	# 41
31) Hexane	4.232	41	1800598	337.40	ug/L	# 88
32) 1,1-dichloroethane	4.488	63	4059484	325.19	ug/L	100
33) tert-butyl ethyl ether	5.256	59	5550528	425.55	ug/L	98
34) isobutyl alcohol	4.556	43	5562789	1152.63	ug/L	99
35) 2,2-dichloropropane	5.529	77	3145937	496.68	ug/L	97
36) cis-1,2-dichloroethene	5.510	96	2194928	394.32	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
 Data File : v33452.D
 Acq On : 1 Aug 2014 2:29 pm
 Operator : amym
 Sample : ic1226-400
 Misc : MS32359,MSV1226,,,,,5,1
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 01 15:30:37 2014
 Quant Method : C:\msdchem\1\METHODS\v140801w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Aug 01 14:32:25 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) ethyl acetate	4.557	43	5553788m	360.72	ug/L	
38) bromochloromethane	5.931	128	1148085	432.48	ug/L	# 84
39) chloroform	6.150	83	4055478	403.67	ug/L	99
41) Tetrahydrofuran	5.940	42	307848	498.51	ug/L	84
42) 1,1,1-trichloroethane	6.398	97	4209070	489.00	ug/L	97
44) Cyclohexane	6.506	56	4000378	326.38	ug/L	94
45) carbon tetrachloride	6.651	117	4289697	502.60	ug/L	100
46) 1,1-dichloropropene	6.667	75	2814896	419.05	ug/L	96
47) benzene	6.986	78	7251745	344.30	ug/L	100
48) 1,2-dichloroethane	7.111	62	2977766	383.43	ug/L	98
49) tert-amyl methyl ether	7.277	73	4052272	498.11	ug/L	92
50) heptane	7.546	43	2210353	408.31	ug/L	85
51) trichloroethene	8.023	95	2286844	416.25	ug/L	97
52) 1,2-dichloropropane	8.372	63	2217651	444.89	ug/L	99
53) dibromomethane	8.475	93	1182192	452.24	ug/L	88
54) bromodichloromethane	8.727	83	2859441	533.20	ug/L	99
55) Methylcyclohexane	8.329	83	3052906	489.37	ug/L	94
56) 2-chloroethyl vinyl ether	9.103	63	714621	537.65	ug/L	98
57) methyl methacrylate	8.505	69	780441	560.97	ug/L	# 75
58) 1,4-dioxane	8.494	88	50153	3128.17	ug/L	80
59) cis-1,3-dichloropropene	9.255	75	2839738	583.65	ug/L	98
61) 4-methyl-2-pentanone	9.438	43	1326909	482.08	ug/L	90
62) toluene	9.620	92	4784645	485.77	ug/L	100
63) trans-1,3-dichloropropene	9.907	75	2258094	693.03	ug/L	98
64) 1,1,2-trichloroethane	10.114	83	1224210	528.72	ug/L	99
65) ethyl methacrylate	9.986	69	1750221	606.61	ug/L	81
67) tetrachloroethene	10.174	166	2618444	448.98	ug/L	92
68) 1,3-dichloropropane	10.275	76	2299524	438.91	ug/L	100
69) dibromochloromethane	10.495	129	2216336	639.39	ug/L	99
70) 1,2-dibromoethane	10.604	107	1556373	481.60	ug/L	97
71) 2-hexanone	10.346	43	1119246	375.04	ug/L	85
72) chlorobenzene	11.101	112	5402969	414.43	ug/L	98
73) 1,1,1,2-tetrachloroethane	11.202	131	2665428	542.40	ug/L	98
74) ethylbenzene	11.207	91	9392374	394.18	ug/L	98
75) m,p-xylene	11.338	106	7455951	739.83	ug/L	99
76) o-xylene	11.705	106	3998315	441.02	ug/L	99
77) styrene	11.725	104	6069877	458.94	ug/L	100
78) bromoform	11.899	173	1260907	645.65	ug/L	99
79) trans-1,4-dichloro-2-b...	12.116	53	544140	517.64	ug/L	# 55
81) isopropylbenzene	12.057	105	10756398	453.35	ug/L	99
83) bromobenzene	12.346	156	2695309	429.10	ug/L	95
84) 1,1,2,2-tetrachloroethane	12.352	83	1640517	428.60	ug/L	99
85) 1,2,3-trichloropropane	12.391	75	2112184	521.32	ug/L	99
86) n-propylbenzene	12.445	91	11690046	432.83	ug/L	100
87) 2-chlorotoluene	12.524	91	7315113	417.92	ug/L	98
88) 4-chlorotoluene	12.635	91	8112589	404.97	ug/L	98
89) 1,3,5-trimethylbenzene	12.615	105	9792605	448.64	ug/L	99
90) tert-butylbenzene	12.900	91	5364517	487.55	ug/L	96
91) 1,2,4-trimethylbenzene	12.954	105	9606206	435.82	ug/L	99
92) sec-butylbenzene	13.103	105	11400714	475.48	ug/L	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
 Data File : v33452.D
 Acq On : 1 Aug 2014 2:29 pm
 Operator : amym
 Sample : ic1226-400
 Misc : MS32359,MSV1226,,,,,5,1
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 01 15:30:37 2014
 Quant Method : C:\msdchem\1\METHODS\v140801w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Aug 01 14:32:25 2014
 Response via : Initial Calibration

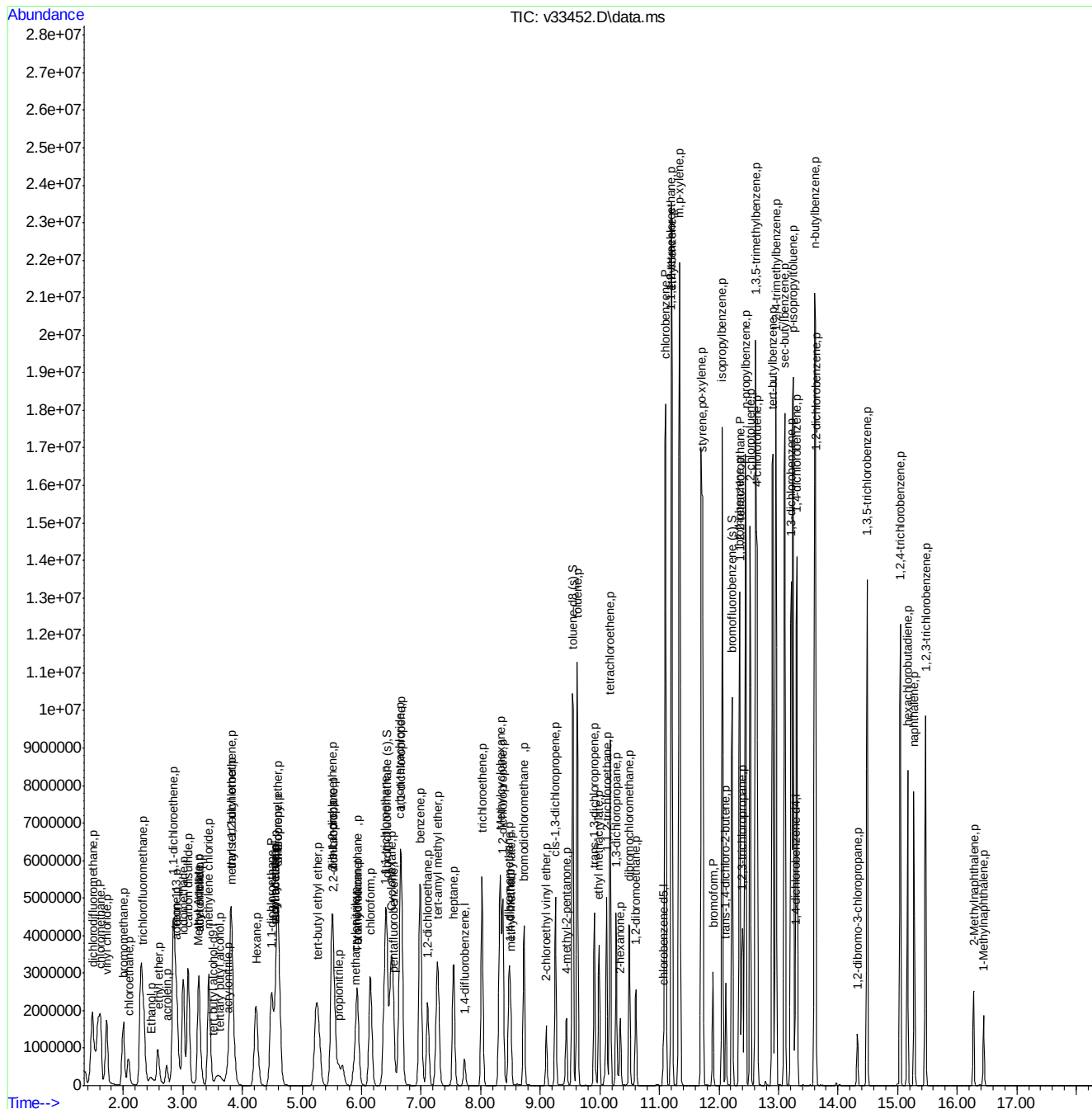
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,3-dichlorobenzene	13.211	146	5171210	410.62	ug/L	97
94) p-isopropyltoluene	13.244	119	10230236	464.27	ug/L	98
95) 1,4-dichlorobenzene	13.306	146	5144340	403.40	ug/L	99
96) 1,2-dichlorobenzene	13.623	146	4794558	399.97	ug/L	99
97) n-butylbenzene	13.608	91	7869577	426.02	ug/L	93
98) 1,2-dibromo-3-chloropr...	14.324	75	270530	645.91	ug/L	82
99) 1,3,5-trichlorobenzene	14.489	180	3925905	443.79	ug/L	99
100) 1,2,4-trichlorobenzene	15.045	180	3318605	478.58	ug/L	97
101) hexachlorobutadiene	15.166	225	1363717	495.37	ug/L	97
102) naphthalene	15.278	128	5609677	590.65	ug/L	100
103) 1,2,3-trichlorobenzene	15.467	180	2900917	522.56	ug/L	100
104) 2-Methylnaphthalene	16.275	142	1163200	382.76	ug/L	99
105) 1-Methylnaphthalene	16.445	142	842480	334.80	ug/L	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33452.D
Acq On : 1 Aug 2014 2:29 pm
Operator : amym
Sample : ic1226-400
Misc : MS32359,MSV1226,,,5,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 01 15:30:37 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 14:32:25 2014
Response via : Initial Calibration



v140801w.m Mon Aug 04 12:43:33 2014

Page: 4

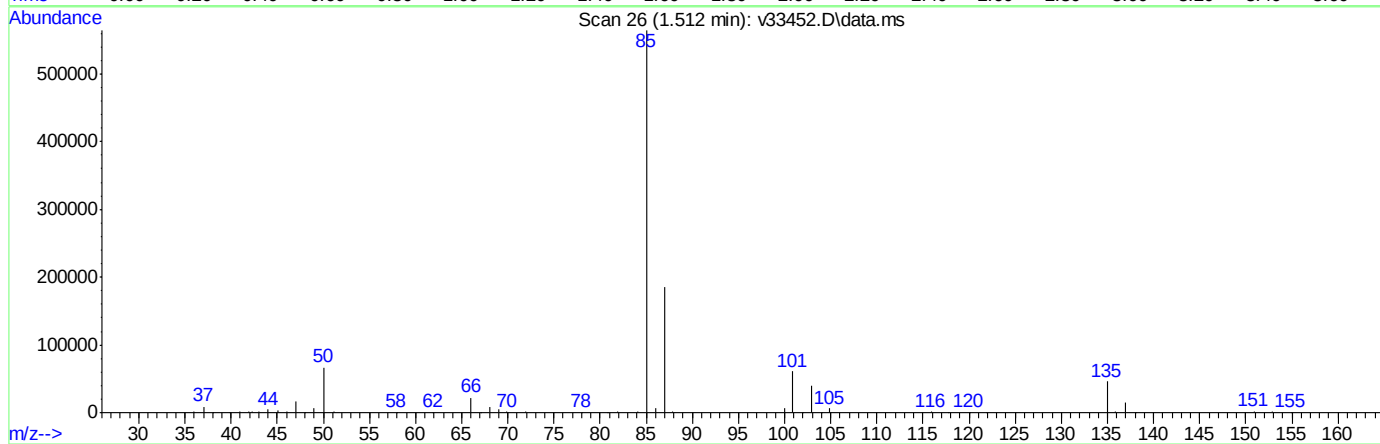
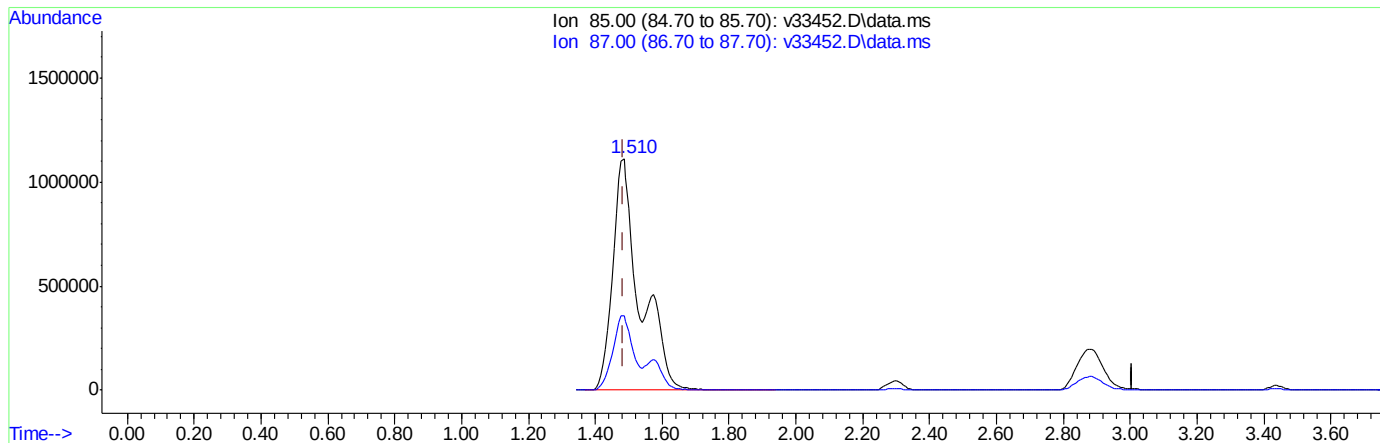
7.6.10



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33452.D
Acq On : 1 Aug 2014 2:29 pm
Operator : amym
Sample : ic1226-400
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 01 15:05:39 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 14:32:25 2014
Response via : Initial Calibration



TIC: v33452.D\data.ms

(5) dichlorodifluoromethane (p)

1.510min (+0.025) 280.33ug/L

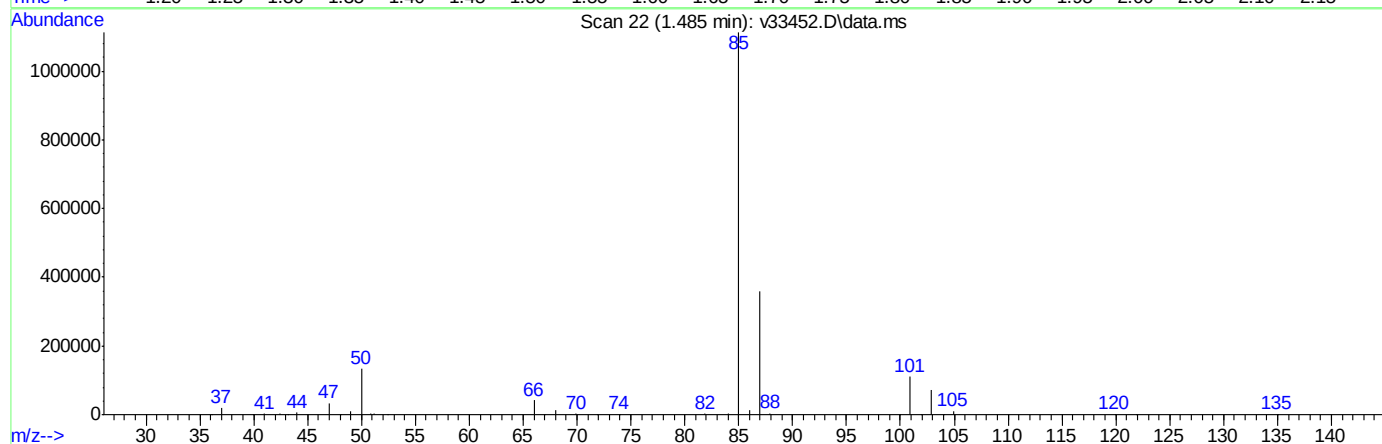
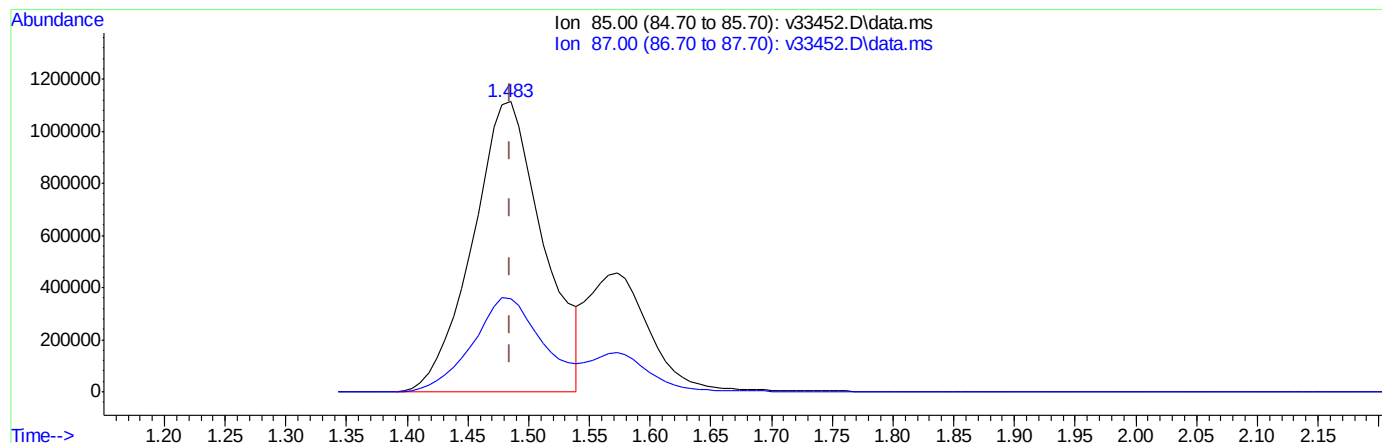
response 6122311

Ion	Exp%	Act%
85.00	100	100
87.00	33.00	32.77
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33452.D
Acq On : 1 Aug 2014 2:29 pm
Operator : amym
Sample : ic1226-400
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 01 15:05:39 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 14:32:25 2014
Response via : Initial Calibration



TIC: v33452.D\data.ms

(5) dichlorodifluoromethane (p)

1.485min (-0.000) 205.33ug/L m

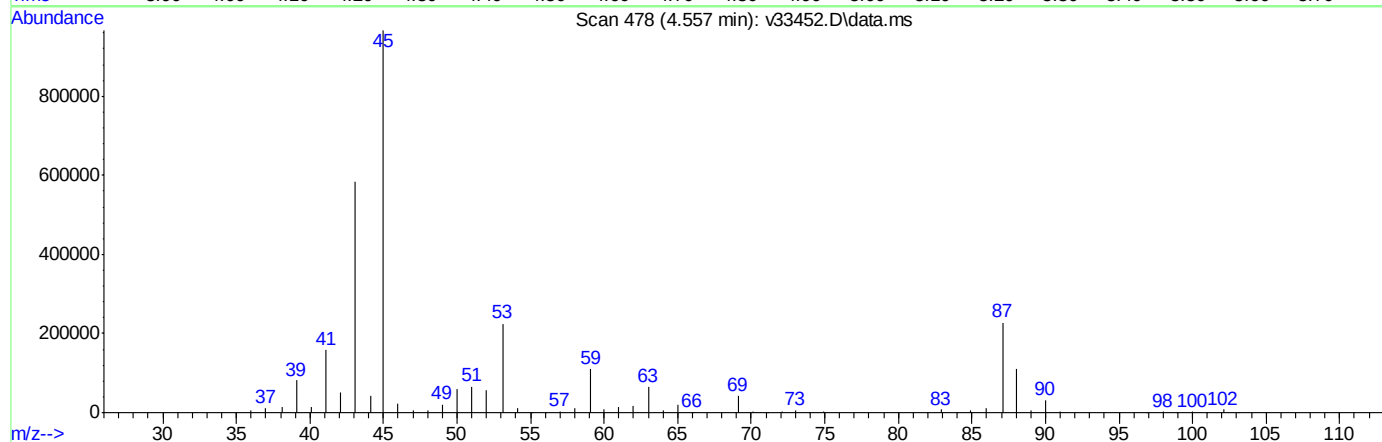
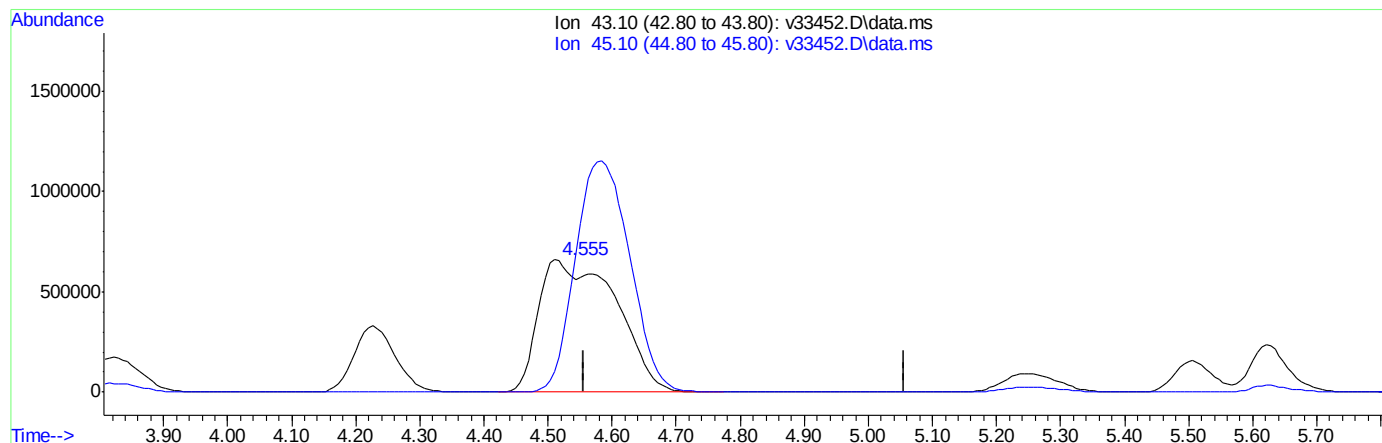
response 4484272

Ion	Exp%	Act%
85.00	100	100
87.00	33.00	32.25
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33452.D
Acq On : 1 Aug 2014 2:29 pm
Operator : amym
Sample : ic1226-400
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 01 15:05:39 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 14:32:25 2014
Response via : Initial Calibration



TIC: v33452.D\data.ms

(37) ethyl acetate (p)

4.557min (-0.000) 360.72ug/L m

response 5553788

Ion	Exp%	Act%
43.10	100	100
45.10	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
 Data File : v33457.D
 Acq On : 1 Aug 2014 5:26 pm
 Operator : amym
 Sample : cc1226-50
 Misc : MS32359,MSV1226,,,,,5,1
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 04 12:44:42 2014
 Quant Method : C:\msdchem\1\METHODS\v140801w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Aug 01 17:44:41 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.496	65	22547	500.00	ug/L	# 0.00
4) pentafluorobenzene	6.542	168	125638	50.00	ug/L	0.00
43) 1,4-difluorobenzene	7.728	114	159975	50.00	ug/L	0.00
66) chlorobenzene-d5	11.070	82	61543	50.00	ug/L	0.00
80) 1,4-dichlorobenzene-d4	13.282	152	66247	50.00	ug/L	0.00
System Monitoring Compounds						
40) dibromofluoromethane (s)	6.421	113	65789	49.31	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	98.62%		
60) toluene-d8 (s)	9.542	98	160304	50.59	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	101.18%		
82) bromofluorobenzene (s)	12.219	95	58064	50.68	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	101.36%		
Target Compounds						
2) tertiary butyl alcohol	3.607	59	13858	364.97	ug/L	Qvalue 79
3) Ethanol	2.479	45	23177	7981.46	ug/L	# 100
5) dichlorodifluoromethane	1.492	85	222263m	39.79	ug/L	
6) chloromethane	1.605	50	139037	42.23	ug/L	96
7) vinyl chloride	1.717	62	133112	40.70	ug/L	99
8) bromomethane	2.002	96	85350	42.44	ug/L	98
9) chloroethane	2.095	64	57628	50.73	ug/L	98
10) ethyl ether	2.592	59	47888	42.35	ug/L	87
11) acetonitrile	3.276	41	138625	54.25	ug/L	# 23
12) trichlorofluoromethane	2.333	101	187326	38.49	ug/L	99
13) freon-113	2.895	101	112040	46.65	ug/L	93
14) acrolein	2.738	56	26444	188.34	ug/L	92
15) 1,1-dichloroethene	2.850	96	86096	57.88	ug/L	98
16) acetone	2.890	58	8885	41.17	ug/L	# 82
17) Methyl Acetate	3.264	43	41583	59.74	ug/L	# 94
18) methylene chloride	3.445	84	83036	50.16	ug/L	87
19) methyl tert butyl ether	3.821	73	143690	49.59	ug/L	94
20) acrylonitrile	3.759	53	19593	52.84	ug/L	94
21) allyl chloride	3.276	41	138625	54.25	ug/L	91
22) trans-1,2-dichloroethene	3.816	96	77992	53.80	ug/L	96
23) iodomethane	3.016	142	209318	51.73	ug/L	94
24) carbon disulfide	3.100	76	283332	65.64	ug/L	99
25) propionitrile	5.622	54	4930	52.45	ug/L	100
26) vinyl acetate	4.563	43	166343	46.43	ug/L	94
27) chloroprene	4.601	53	131582	67.14	ug/L	94
28) di-isopropyl ether	4.586	45	242336	51.49	ug/L	96
29) methacrylonitrile	5.896	41	24895	52.01	ug/L	93
30) 2-butanone	5.511	72	4246	44.83	ug/L	# 72
31) Hexane	4.234	41	71578	58.09	ug/L	# 87
32) 1,1-dichloroethane	4.490	63	141765	52.33	ug/L	99
33) tert-butyl ethyl ether	5.251	59	166684	53.89	ug/L	98
34) isobutyl alcohol	4.563	43	166343	230.70	ug/L	90
35) 2,2-dichloropropane	5.526	77	86228	53.62	ug/L	97
36) cis-1,2-dichloroethene	5.510	96	67068	51.25	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
 Data File : v33457.D
 Acq On : 1 Aug 2014 5:26 pm
 Operator : amym
 Sample : cc1226-50
 Misc : MS32359,MSV1226,,,,5,1
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 04 12:44:42 2014
 Quant Method : C:\msdchem\1\METHODS\v140801w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Aug 01 17:44:41 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) ethyl acetate	4.564	43	166341m	46.45	ug/L	
38) bromochloromethane	5.931	128	33239	52.64	ug/L	# 81
39) chloroform	6.150	83	115767	48.89	ug/L	97
41) Tetrahydrofuran	5.941	42	8554	49.98	ug/L	94
42) 1,1,1-trichloroethane	6.395	97	110228	53.20	ug/L	99
44) Cyclohexane	6.503	56	121470	55.01	ug/L	96
45) carbon tetrachloride	6.651	117	104112	48.09	ug/L	99
46) 1,1-dichloropropene	6.665	75	74235	52.45	ug/L	96
47) benzene	6.985	78	195039	51.62	ug/L	99
48) 1,2-dichloroethane	7.109	62	78187	48.25	ug/L	99
49) tert-amyl methyl ether	7.274	73	99060	56.55	ug/L	95
50) heptane	7.545	43	63258	55.62	ug/L	88
51) trichloroethene	8.021	95	56457	48.83	ug/L	98
52) 1,2-dichloropropane	8.370	63	54745	51.75	ug/L	99
53) dibromomethane	8.474	93	28254	50.74	ug/L	91
54) bromodichloromethane	8.726	83	65127	55.87	ug/L	100
55) Methylcyclohexane	8.325	83	80349	56.89	ug/L	98
56) 2-chloroethyl vinyl ether	9.102	63	14508	49.63	ug/L	97
57) methyl methacrylate	8.504	69	16965	47.27	ug/L	# 78
59) cis-1,3-dichloropropene	9.254	75	58535	53.54	ug/L	98
61) 4-methyl-2-pentanone	9.439	43	29533	49.91	ug/L	94
62) toluene	9.618	92	107850	51.02	ug/L	99
63) trans-1,3-dichloropropene	9.906	75	43752	52.78	ug/L	98
64) 1,1,2-trichloroethane	10.111	83	25269	50.27	ug/L	99
65) ethyl methacrylate	9.987	69	32611	48.85	ug/L	84
67) tetrachloroethene	10.171	166	55033	51.39	ug/L	95
68) 1,3-dichloropropane	10.273	76	47771	49.73	ug/L	99
69) dibromochloromethane	10.494	129	39757	50.09	ug/L	100
70) 1,2-dibromoethane	10.603	107	31385	52.35	ug/L	99
71) 2-hexanone	10.346	43	23106	43.02	ug/L	90
72) chlorobenzene	11.100	112	121939	51.36	ug/L	100
73) 1,1,1,2-tetrachloroethane	11.200	131	51067	44.35	ug/L	97
74) ethylbenzene	11.205	91	212177	49.16	ug/L	98
75) m,p-xylene	11.335	106	165079	99.58	ug/L	100
76) o-xylene	11.702	106	84295	50.74	ug/L	100
77) styrene	11.723	104	130508	53.52	ug/L	97
78) bromoform	11.897	173	19230	46.18	ug/L	98
79) trans-1,4-dichloro-2-b...	12.114	53	9186	40.90	ug/L	81
81) isopropylbenzene	12.055	105	229107	57.00	ug/L	99
83) bromobenzene	12.344	156	55074	52.11	ug/L	95
84) 1,1,2,2-tetrachloroethane	12.349	83	33296	51.74	ug/L	99
85) 1,2,3-trichloropropane	12.389	75	38017	54.16	ug/L	99
86) n-propylbenzene	12.443	91	250700	55.11	ug/L	99
87) 2-chlorotoluene	12.522	91	151466	51.59	ug/L	98
88) 4-chlorotoluene	12.633	91	170233	50.84	ug/L	100
89) 1,3,5-trimethylbenzene	12.612	105	191450	51.85	ug/L	99
90) tert-butylbenzene	12.898	91	101762	54.09	ug/L	100
91) 1,2,4-trimethylbenzene	12.952	105	200045	53.84	ug/L	100
92) sec-butylbenzene	13.101	105	225212	55.12	ug/L	98
93) 1,3-dichlorobenzene	13.209	146	105785	50.18	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33457.D
Acq On : 1 Aug 2014 5:26 pm
Operator : amym
Sample : cc1226-50
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 04 12:44:42 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 17:44:41 2014
Response via : Initial Calibration

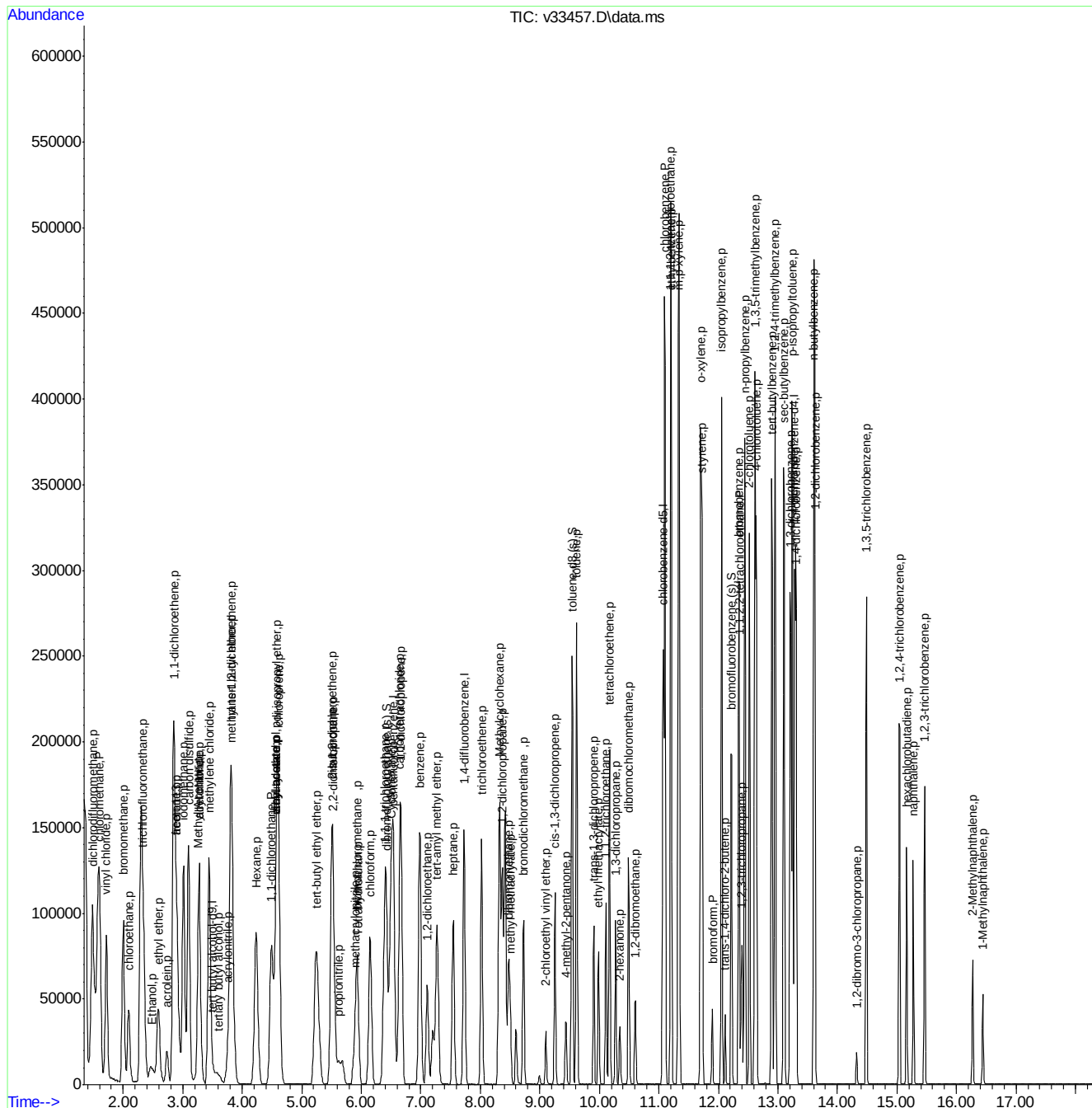
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) p-isopropyltoluene	13.242	119	204328	54.58	ug/L	98
95) 1,4-dichlorobenzene	13.304	146	105754	49.64	ug/L	100
96) 1,2-dichlorobenzene	13.621	146	100600	50.28	ug/L	99
97) n-butylbenzene	13.607	91	170861	55.02	ug/L	98
98) 1,2-dibromo-3-chloropr...	14.322	75	3952	42.49	ug/L	85
99) 1,3,5-trichlorobenzene	14.487	180	77043	51.55	ug/L	98
100) 1,2,4-trichlorobenzene	15.043	180	60536	51.18	ug/L	99
101) hexachlorobutadiene	15.164	225	23539	49.54	ug/L	95
102) naphthalene	15.276	128	86908	52.06	ug/L	100
103) 1,2,3-trichlorobenzene	15.466	180	47923	50.01	ug/L	98
104) 2-Methylnaphthalene	16.274	142	32893	53.04	ug/L	100
105) 1-Methylnaphthalene	16.443	142	25606	52.93	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33457.D
Acq On : 1 Aug 2014 5:26 pm
Operator : amym
Sample : cc1226-50
Misc : MS32359,MSV1226,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 04 12:44:42 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 17:44:41 2014
Response via : Initial Calibration



v140801w.m Mon Aug 04 12:49:17 2014

Page: 4

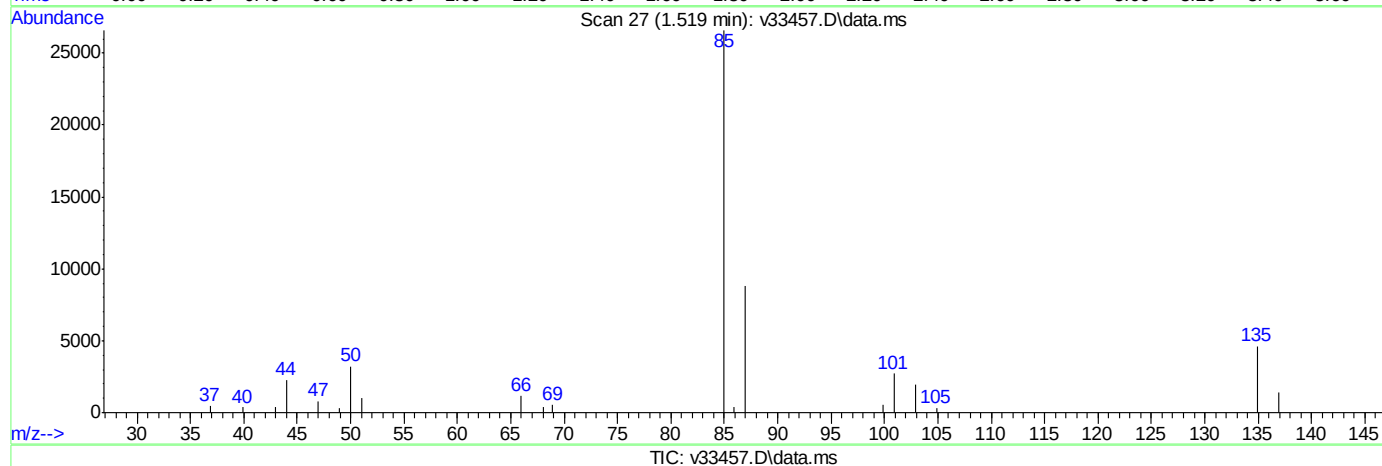
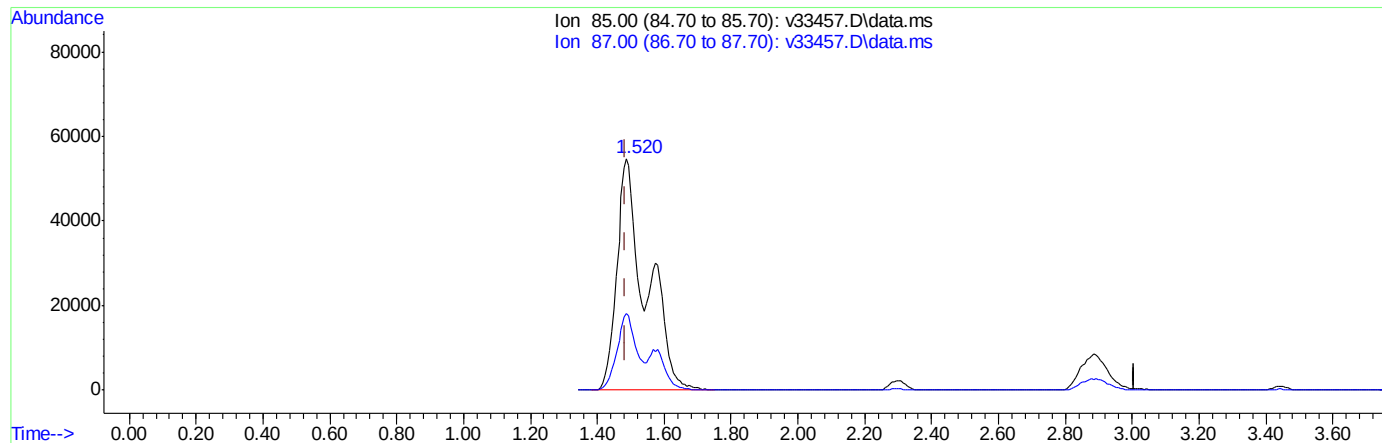
7.6.11



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33457.D
Acq On : 1 Aug 2014 5:26 pm
Operator : amym
Sample : icv1226-50
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 04 12:44:07 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 17:44:41 2014
Response via : Initial Calibration



(5) dichlorodifluoromethane (p)

1.520min (+0.035) 62.14ug/L

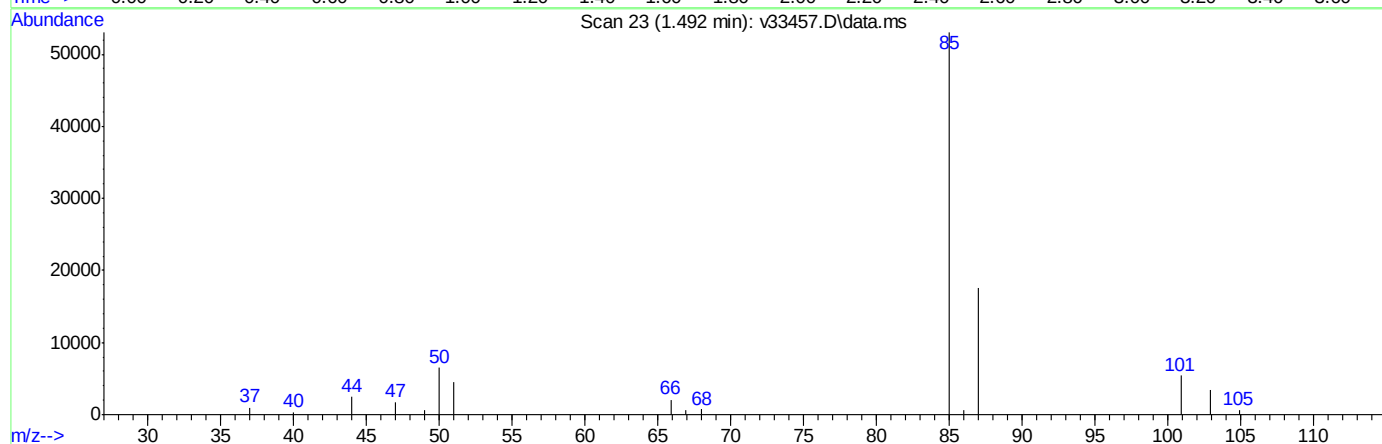
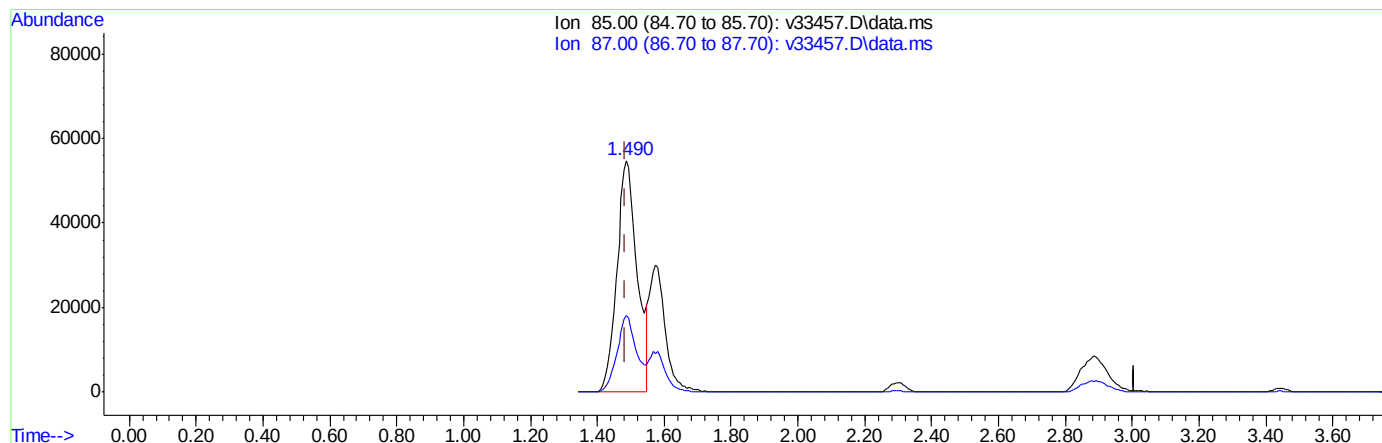
response 321757

Ion	Exp%	Act%
85.00	100	100
87.00	33.00	33.26
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33457.D
Acq On : 1 Aug 2014 5:26 pm
Operator : amym
Sample : icv1226-50
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 04 12:44:07 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 17:44:41 2014
Response via : Initial Calibration



TIC: v33457.D\data.ms

(5) dichlorodifluoromethane (p)

1.492min (+0.007) 39.79ug/L m

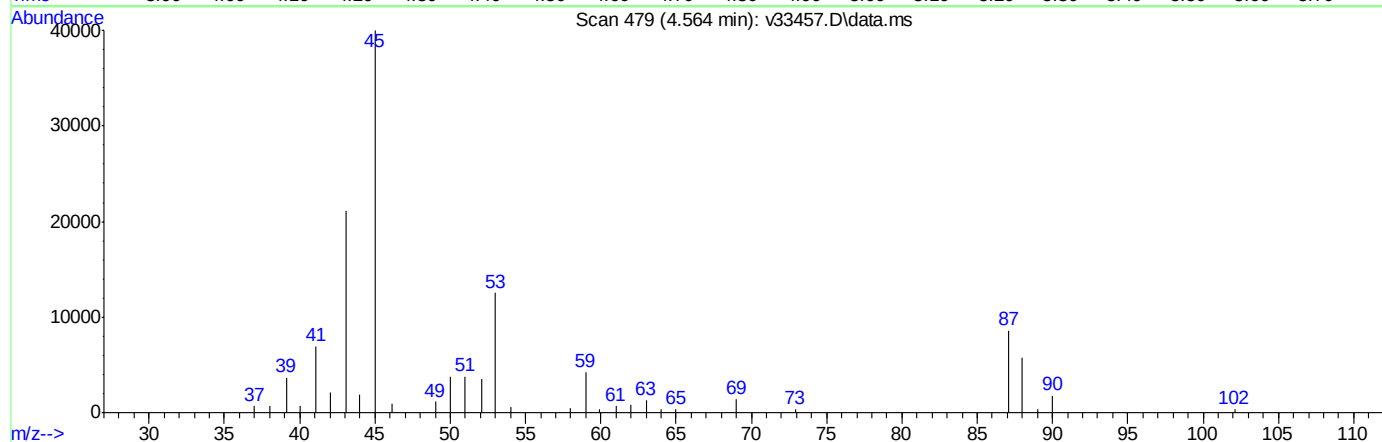
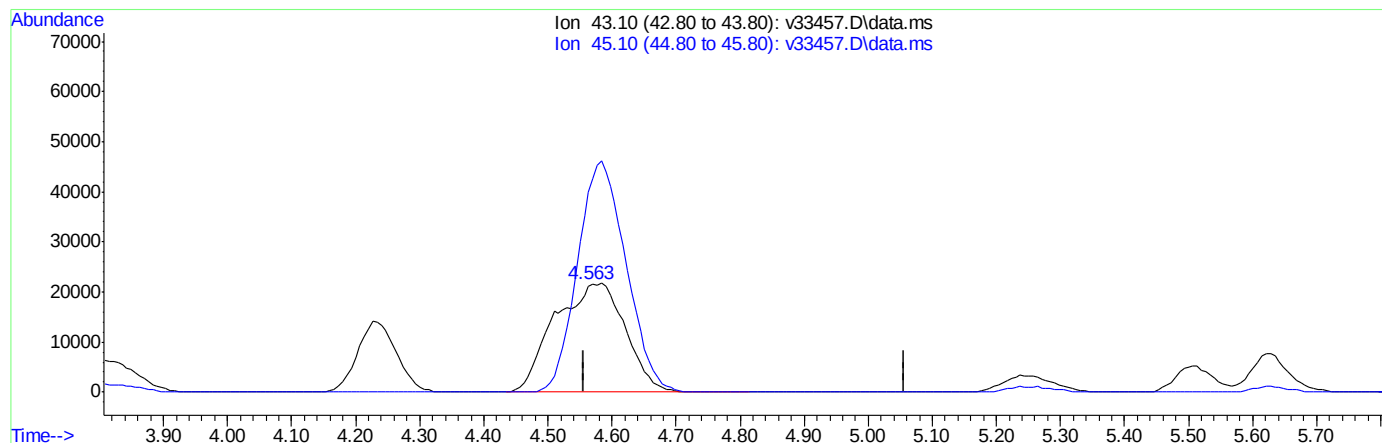
response 222263

Ion	Exp%	Act%
85.00	100	100
87.00	33.00	33.25
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140801\
Data File : v33457.D
Acq On : 1 Aug 2014 5:26 pm
Operator : amym
Sample : icv1226-50
Misc : MS32359,MSV1226,,,,5,1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 04 12:44:07 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 17:44:41 2014
Response via : Initial Calibration



(37) ethyl acetate (p)

4.564min (+0.007) 46.45ug/L m

response 166341

Ion	Exp%	Act%
43.10	100	100
45.10	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140807\
 Data File : v33605.D
 Acq On : 7 Aug 2014 8:42 am
 Operator : amym
 Sample : cc1226-50
 Misc : MS32448,MSV1231,,,,5,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 07 13:05:11 2014
 Quant Method : C:\msdchem\1\METHODS\v140801w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Aug 01 17:44:41 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	3.510	65	17728	500.00	ug/L	# 0.01
4) pentafluorobenzene	6.562	168	131388	50.00	ug/L	0.02
43) 1,4-difluorobenzene	7.745	114	175611	50.00	ug/L	0.02
66) chlorobenzene-d5	11.083	82	79186	50.00	ug/L	0.01
80) 1,4-dichlorobenzene-d4	13.295	152	105861	50.00	ug/L	0.01
System Monitoring Compounds						
40) dibromofluoromethane (s)	6.441	113	79167	56.74	ug/L	0.02
Spiked Amount 50.000	Range 70 - 130		Recovery =	113.48%		
60) toluene-d8 (s)	9.557	98	187291	53.84	ug/L	0.02
Spiked Amount 50.000	Range 70 - 130		Recovery =	107.68%		
82) bromofluorobenzene (s)	12.232	95	83955	45.86	ug/L	0.01
Spiked Amount 50.000	Range 70 - 130		Recovery =	91.72%		
Target Compounds						
						Qvalue
2) tertiary butyl alcohol	3.622	59	24017	804.45	ug/L	84
3) Ethanol	2.492	45	34428	15542.78	ug/L	# 100
5) dichlorodifluoromethane	1.498	85	219377m	37.25	ug/L	
6) chloromethane	1.612	50	174361	52.13	ug/L	97
7) vinyl chloride	1.722	62	155034	46.05	ug/L	100
8) bromomethane	2.009	96	102289	49.70	ug/L	98
9) chloroethane	2.103	64	60878	51.34	ug/L	99
10) ethyl ether	2.602	59	54750	46.93	ug/L	91
11) acetonitrile	3.292	41	152062	56.90	ug/L	# 21
12) trichlorofluoromethane	2.343	101	267412	55.04	ug/L	99
13) freon-113	2.912	101	106241	42.09	ug/L	96
14) acrolein	2.751	56	36420	254.92	ug/L	99
15) 1,1-dichloroethene	2.863	96	70161	45.10	ug/L	# 77
16) acetone	2.902	58	10241	45.63	ug/L	# 82
17) Methyl Acetate	3.278	43	39917	54.84	ug/L	96
18) methylene chloride	3.462	84	79803	46.10	ug/L	# 81
19) methyl tert butyl ether	3.839	73	134095	44.25	ug/L	100
20) acrylonitrile	3.779	53	23870	61.55	ug/L	99
21) allyl chloride	3.292	41	152062	56.91	ug/L	93
22) trans-1,2-dichloroethene	3.834	96	74519	49.15	ug/L	# 80
23) iodomethane	3.031	142	171386	40.50	ug/L	85
24) carbon disulfide	3.115	76	208380	46.16	ug/L	98
25) propionitrile	5.641	54	5868	58.73	ug/L	100
26) vinyl acetate	4.584	43	240642	64.24	ug/L	94
27) chloroprene	4.622	53	139196	67.92	ug/L	89
28) di-isopropyl ether	4.608	45	322181	65.45	ug/L	97
29) methacrylonitrile	5.919	41	33177	66.28	ug/L	95
30) 2-butanone	5.532	72	5057	50.62	ug/L	# 71
31) Hexane	4.253	41	81159	62.99	ug/L	92
32) 1,1-dichloroethane	4.511	63	161192	56.89	ug/L	98
33) tert-butyl ethyl ether	5.274	59	161620	49.96	ug/L	95
34) isobutyl alcohol	4.584	43	240642	319.14	ug/L	89
35) 2,2-dichloropropane	5.550	77	80178	47.67	ug/L	95
36) cis-1,2-dichloroethene	5.532	96	69581	50.84	ug/L	# 79

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140807\
 Data File : v33605.D
 Acq On : 7 Aug 2014 8:42 am
 Operator : amym
 Sample : cc1226-50
 Misc : MS32448,MSV1231,,,,5,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 07 13:05:11 2014
 Quant Method : C:\msdchem\1\METHODS\v140801w.m
 Quant Title : SW-846 Method 8260
 QLast Update : Fri Aug 01 17:44:41 2014
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) ethyl acetate	4.584	43	240647m	64.26	ug/L	
38) bromochloromethane	5.953	128	34408	52.11	ug/L	# 81
39) chloroform	6.171	83	149828	60.50	ug/L	98
41) Tetrahydrofuran	5.963	42	10309	57.09	ug/L	88
42) 1,1,1-trichloroethane	6.417	97	140070	64.64	ug/L	95
44) Cyclohexane	6.525	56	136798	56.43	ug/L	91
45) carbon tetrachloride	6.672	117	138917	58.18	ug/L	99
46) 1,1-dichloropropene	6.685	75	91362	58.80	ug/L	91
47) benzene	7.005	78	204997	49.41	ug/L	98
48) 1,2-dichloroethane	7.129	62	116571	65.54	ug/L	98
49) tert-amyl methyl ether	7.293	73	89565	46.58	ug/L	92
50) heptane	7.563	43	87415	70.02	ug/L	96
51) trichloroethene	8.037	95	68756	54.17	ug/L	92
52) 1,2-dichloropropane	8.385	63	67923	58.49	ug/L	99
53) dibromomethane	8.489	93	36001	58.89	ug/L	98
54) bromodichloromethane	8.741	83	84528	66.06	ug/L	99
55) Methylcyclohexane	8.341	83	82570	53.26	ug/L	87
56) 2-chloroethyl vinyl ether	9.116	63	16293	50.78	ug/L	95
57) methyl methacrylate	8.520	69	16829	43.09	ug/L	85
59) cis-1,3-dichloropropene	9.268	75	64640	53.83	ug/L	93
61) 4-methyl-2-pentanone	9.454	43	43223	66.54	ug/L	96
62) toluene	9.632	92	125385	54.04	ug/L	97
63) trans-1,3-dichloropropene	9.920	75	46700	51.42	ug/L	93
64) 1,1,2-trichloroethane	10.124	83	31586	57.24	ug/L	96
65) ethyl methacrylate	10.000	69	36891	50.20	ug/L	88
67) tetrachloroethene	10.185	166	62104	45.07	ug/L	96
68) 1,3-dichloropropane	10.287	76	60891	49.26	ug/L	100
69) dibromochloromethane	10.507	129	51794	50.68	ug/L	97
70) 1,2-dibromoethane	10.617	107	37597	48.74	ug/L	99
71) 2-hexanone	10.361	43	41955	60.71	ug/L	96
72) chlorobenzene	11.113	112	147209	48.19	ug/L	95
73) 1,1,1,2-tetrachloroethane	11.213	131	70236	47.33	ug/L	98
74) ethylbenzene	11.218	91	284653	51.26	ug/L	99
75) m,p-xylene	11.348	106	214584	100.60	ug/L	90
76) o-xylene	11.715	106	109873	51.40	ug/L	92
77) styrene	11.736	104	170567	54.36	ug/L	93
78) bromoform	11.910	173	26288	48.73	ug/L	98
79) trans-1,4-dichloro-2-b...	12.127	53	15756	53.33	ug/L	93
81) isopropylbenzene	12.067	105	308475	48.03	ug/L	98
83) bromobenzene	12.358	156	71507	42.34	ug/L	96
84) 1,1,2,2-tetrachloroethane	12.362	83	47767	46.45	ug/L	98
85) 1,2,3-trichloropropane	12.412	75	47630	42.46	ug/L	97
86) n-propylbenzene	12.455	91	364161	50.09	ug/L	97
87) 2-chlorotoluene	12.535	91	229256	48.86	ug/L	95
88) 4-chlorotoluene	12.646	91	277148	51.80	ug/L	95
89) 1,3,5-trimethylbenzene	12.625	105	299649	50.78	ug/L	96
90) tert-butylbenzene	12.911	91	170070	56.57	ug/L	89
91) 1,2,4-trimethylbenzene	12.965	105	311700	52.49	ug/L	96
92) sec-butylbenzene	13.114	105	355159	54.39	ug/L	100
93) 1,3-dichlorobenzene	13.222	146	158186	46.95	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\V140807\
Data File : v33605.D
Acq On : 7 Aug 2014 8:42 am
Operator : amym
Sample : cc1226-50
Misc : MS32448,MSV1231,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 07 13:05:11 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 17:44:41 2014
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) p-isopropyltoluene	13.255	119	331750	55.45	ug/L	96
95) 1,4-dichlorobenzene	13.317	146	168333	49.44	ug/L	97
96) 1,2-dichlorobenzene	13.634	146	160237	50.11	ug/L	98
97) n-butylbenzene	13.619	91	288235	58.08	ug/L	99
98) 1,2-dibromo-3-chloropr...	14.335	75	7420	49.01	ug/L	92
99) 1,3,5-trichlorobenzene	14.500	180	109663	45.92	ug/L	98
100) 1,2,4-trichlorobenzene	15.055	180	85365	45.17	ug/L	97
101) hexachlorobutadiene	15.176	225	35157	46.30	ug/L	100
102) naphthalene	15.289	128	129323	48.48	ug/L	100
103) 1,2,3-trichlorobenzene	15.478	180	68550	44.77	ug/L	98
104) 2-Methylnaphthalene	16.287	142	16821	20.02	ug/L	99
105) 1-Methylnaphthalene	16.458	142	13336	19.35	ug/L	99

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

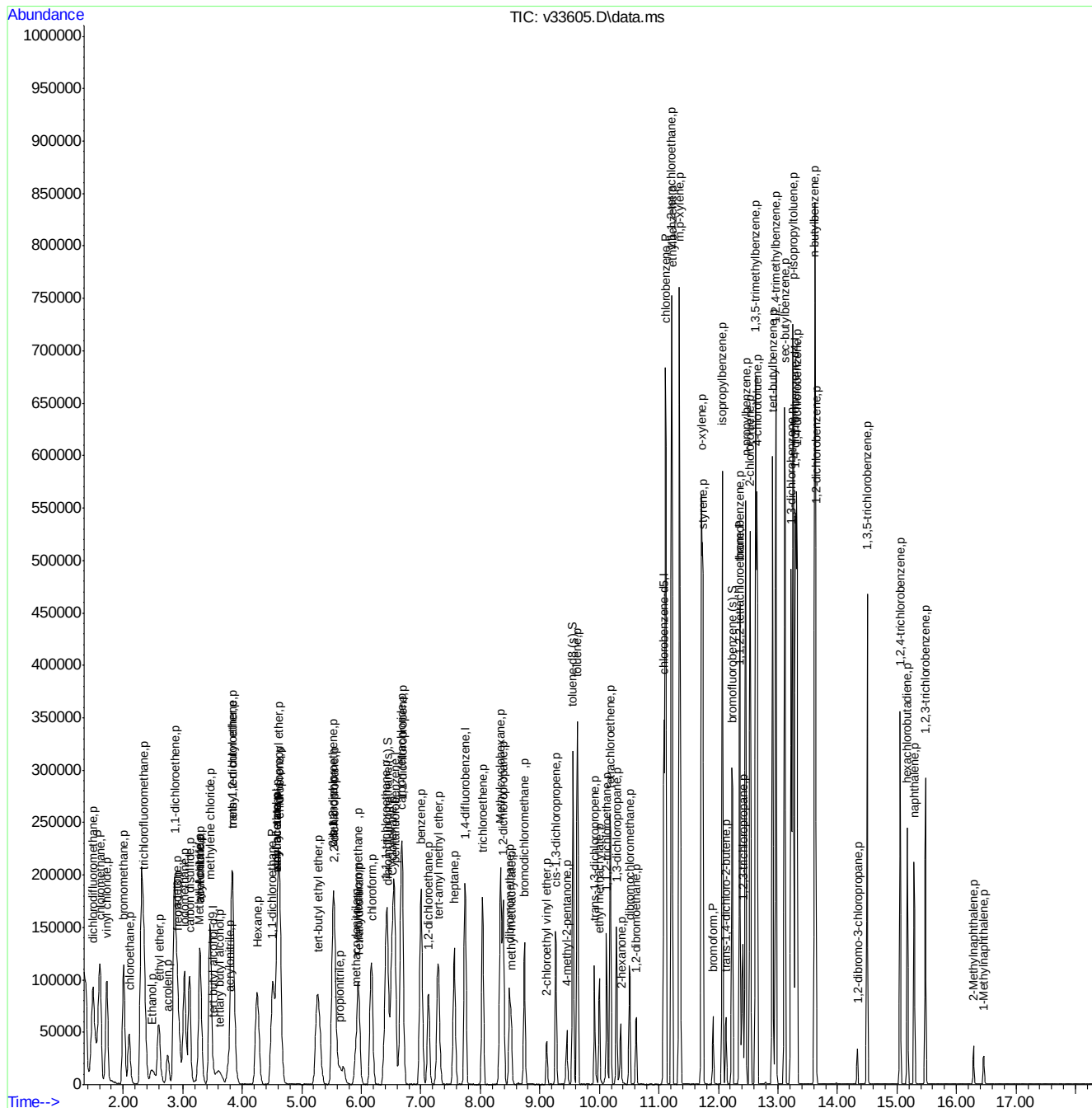
Quantitation Report (QT Reviewed)

```

Data Path   : C:\msdchem\1\DATA\V140807\
Data File   : v33605.D
Acq On      : 7 Aug 2014    8:42 am
Operator    : amym
Sample      : cc1226-50
Misc        : MS32448,MSV1231,,,,,5,1
ALS Vial    : 2      Sample Multiplier: 1

```

Quant Time: Aug 07 13:05:11 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 17:44:41 2014
Response via : Initial Calibration



v140801w.m Thu Aug 07 13:05:59 2014

Page: 4

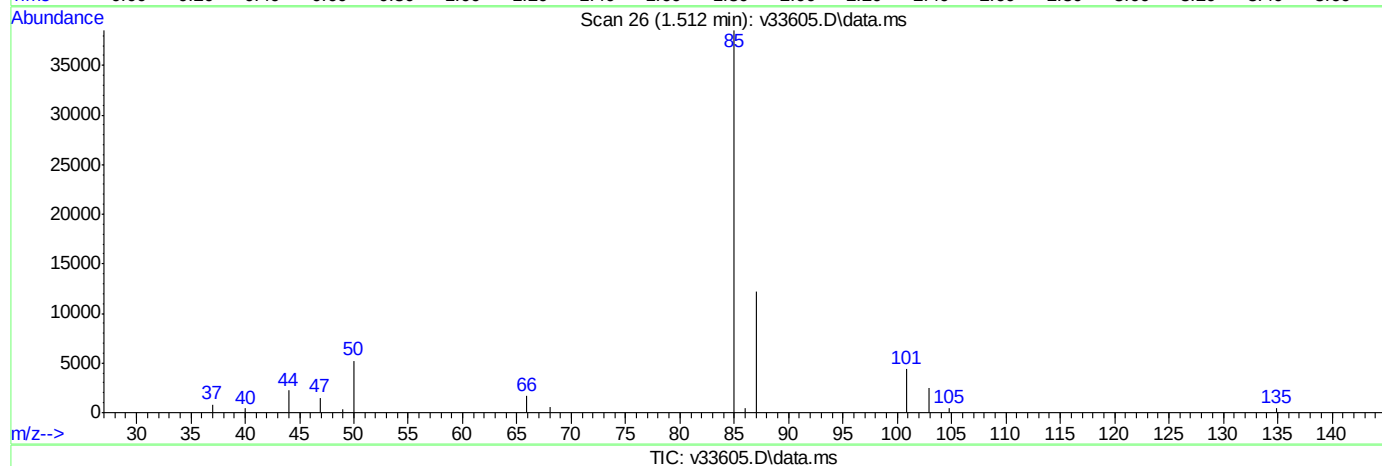
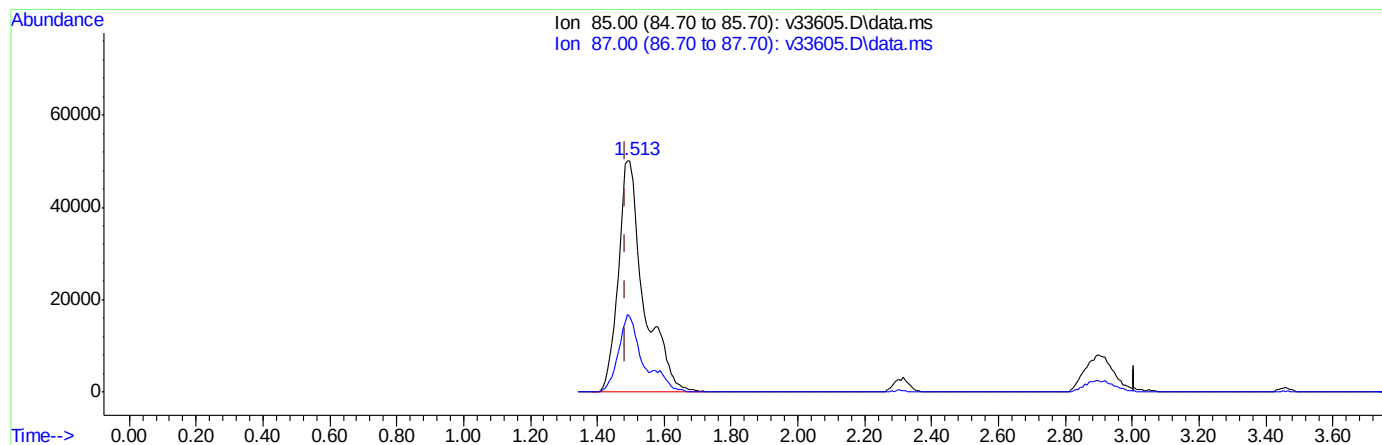
7.6.12



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140807\
Data File : v33605.D
Acq On : 7 Aug 2014 8:42 am
Operator : amym
Sample : cc1226-50
Misc : MS32448,MSV1231,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 07 12:32:52 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 17:44:41 2014
Response via : Initial Calibration



(5) dichlorodifluoromethane (p)

1.513min (+0.028) 44.79ug/L

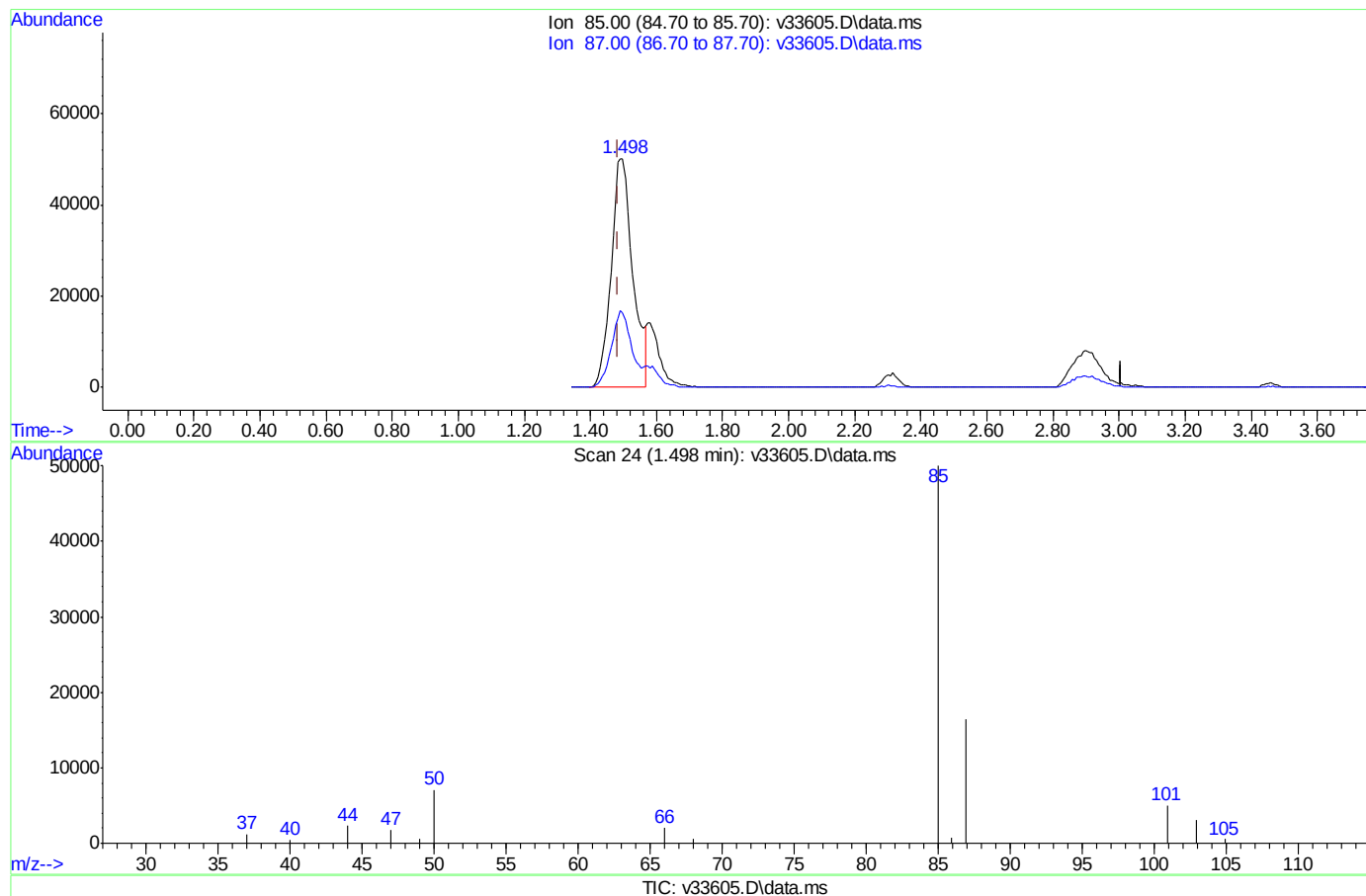
response 257419

Ion	Exp%	Act%
85.00	100	100
87.00	33.00	31.54
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140807\
Data File : v33605.D
Acq On : 7 Aug 2014 8:42 am
Operator : amym
Sample : cc1226-50
Misc : MS32448,MSV1231,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 07 12:32:52 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 17:44:41 2014
Response via : Initial Calibration



(5) dichlorodifluoromethane (p)

1.498min (+0.013) 37.25ug/L m

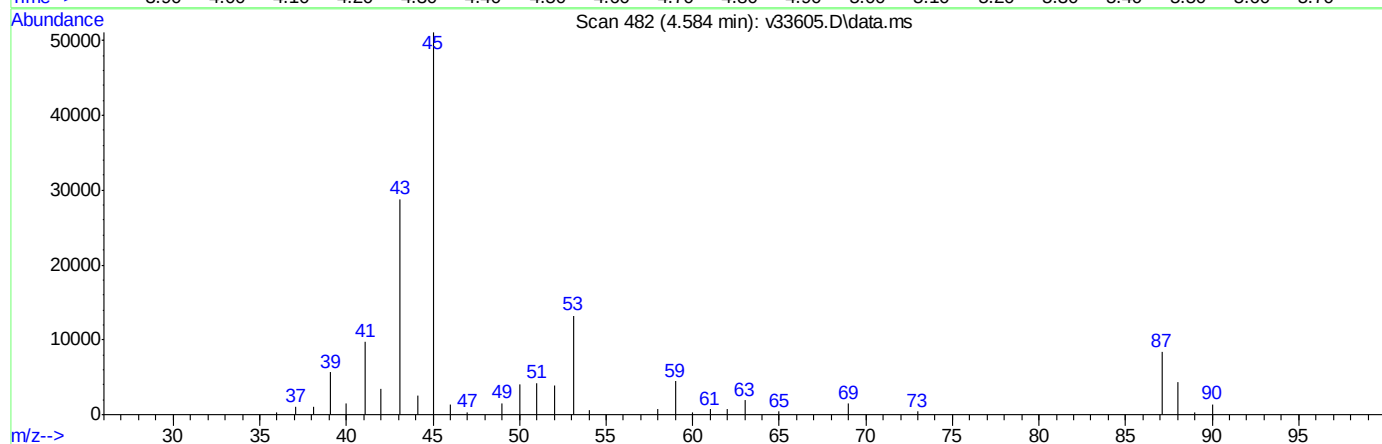
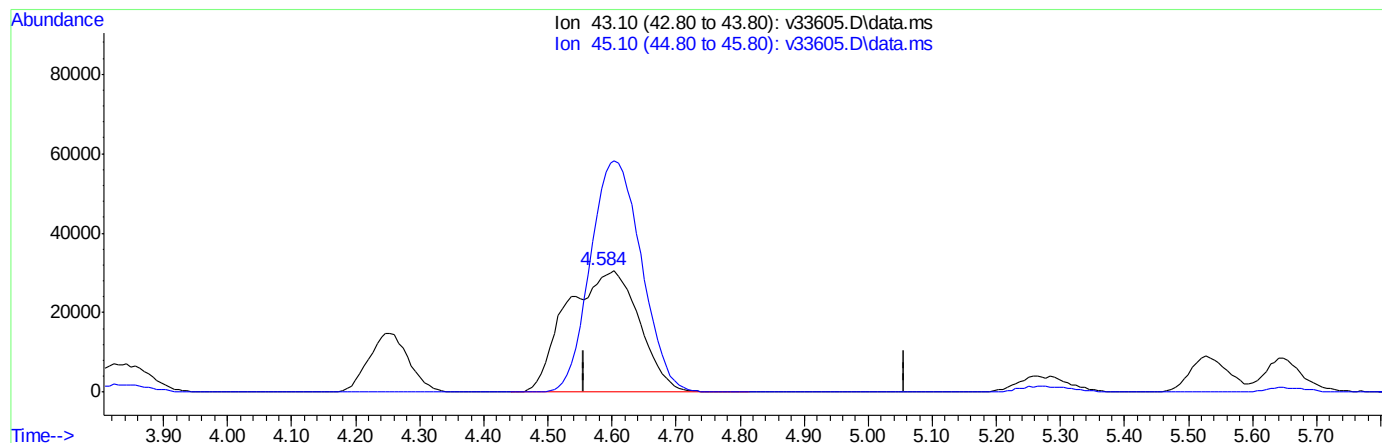
response 219377

Ion	Exp%	Act%
85.00	100	100
87.00	33.00	32.76
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\V140807\
Data File : v33605.D
Acq On : 7 Aug 2014 8:42 am
Operator : amym
Sample : cc1226-50
Misc : MS32448,MSV1231,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 07 12:32:52 2014
Quant Method : C:\msdchem\1\METHODS\v140801w.m
Quant Title : SW-846 Method 8260
QLast Update : Fri Aug 01 17:44:41 2014
Response via : Initial Calibration



TIC: v33605.D\data.ms

(37) ethyl acetate (p)

4.584min (+0.027) 64.26ug/L m

response 240647

Ion	Exp%	Act%
43.10	100	100
45.10	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Standards Data

Daily Saved File

Lot #	Description	Conc
MS 9850	V 8260 cal STD	2000ug/ml
9851	cal Gas	
9852	BS STD	
9853	BS Gas	
9854	SS	
9857	SS	250ug/ml

Tune file 1:	V33440
Tune file 2:	V33457
Initial Cal:	08/01/14
ID File:	V140801W
ICAL Verified:	V33457
Sequence verified:	GK

Date: 8/1/14

Batch ID: MSV 1226

Analysts: Amy Yang

Signature: my

*Note: If sample matrix is soil - method SW846 5035 used for preparation. SW846 5030 is purge and trap method for soil and water

Data File	Sample ID	Bot No.	Work Group	Test	ALS #	*MTX	Samp Amt.	% Sol	Dil. Fact.	pH	Comments
V33439	6lk	NA	NA	NA	1	NA	5ul	NA	1:1	NA	
	40				2						
	41				3						
	42	ic 1226-0.5	1.1	MS 9850/9851	4						
	43	-1			5						
	44	-2			6						
	45	-5			7						
	46	-10			8						
	47	-25			9						
	48	ic 1226-50			10						
	49	ic 1226-100			11						
	50	-200			12						
	51	-400			13						
	52	HK -400			14						
	53		NA	NA	15						
	54	ic 1226-50	1.1	MS 9852/9853	16						
	55	6lk	NA	NA	17						
	56				18						
	57	ic 1226-50	1.1	MS 9852/9853	19						
	58	6lk	NA	NA	20						
	59	MB			21						
	60	MC32242-1	1	MS 32418	22	WTS					
	61	MC32243-5	1		23						
	62	MC32242-2	2		24	GW					
	63	-3	1		25						
	64	-4	2		26						
	65	-5	1		27						
	66	-6	1		28						
	67	MC32243-4	3		29						
	68	-1	3		30						
	69	-2	3		31						

TX = Matrix: Designate W for water, S for soil, O for oil.
 sample amount is reported in grams (wet) for soil and oil, mls for water.

S001-05 Date: 07/22/13

Review: 8/4/14

Standards Data

Lot #	Description	Conc
	see previous page	

Daily Saved File

Tune file 1:	
Tune file 2:	see
Initial Cal:	
ID File:	previous
ICAL Verified:	page
Sequence verified:	OK

Date: 8/1/14

Batch ID: MSV 1226

Analysts: Ag Yang

Signature: [Signature]

*Note: If sample matrix is soil - method SW846 5035 used for preparation. SW846 5030 is purge and trap method for soil and water

pH paper LOT#202513 exp: 1/15/2016

Data File	Sample ID	Bot No.	Work Group	Test	ALS #	*MTX	Samp Amt.	% Sol	Dil. Fact.	pH	Comments
V33470	MC32243-3	4	MS32418	V BSL	32	GW	1:2000	NA	NA	<2	
71	↓ 4	4	↓	↓	33	↓	1:10	↓	↓	↓	No need
72	MC32242-2NA	1	↓	V BSL	34	↓	1:5	↓	↓	↓	
73	↓ 2NA	↓	↓	↓	35	↓	↓	↓	↓	↓	
74	NA	NA	NA	NA	36	NA	1:1	↓	↓	↓	
75	↓	↓	↓	↓	37	↓	↓	↓	↓	↓	
8/4/14 [Signature]											

MTX = Matrix: Designate W for water, S for soil, O for oil.

Sample amount is reported in grams (wet) for soil and oil, mls. for water.

IS001-05 Date: 07/22/13

Review: [Signature] 8/4/14

VOLATILE ORGANICS BY GC/MS ANALYSIS LOG

Standards Data

Daily Saved File

Lot #	Description	Conc
MS 9850	V. B. Cal STD	200 µg/ml
9851	Cal Gas	
9852	BS STD	
9859	BS Gas	
9899	IS/SS	200 µg/ml

Tune file 1:	V33605
Tune file 2:	NA
Initial Cal:	08/01/14
ID File:	V14680/W
ICAL Verified:	22
Sequence verified:	JB

Date: 8/7/14

Batch ID: MSV 1231

Analysts: Amy Yang

Signature: [Signature]

*Note: If sample matrix is soil - method SW846 5035 used for preparation. SW846 5036 is purge and trap method for soil and water

pH paper LOT#202513 exp: 1/15/2016

Data File	Sample ID	Bot No.	Work Group	Test	ALS #	*MTX	Samp Amt.	% Sol	Dil. Fact.	pH	Comments
V33604	HR	NA	NA	NA	1	NA	5ml	NA	1:1	NA	
05	CC1226-ID	1.2	MS9850/9851		2						
06	BS	1.1	MS9852/9859		3						
07	BSD				4						
08	HR	NA	NA		5						
09	MB				6						
10	MC32510-2	6	MS32448	V. B. RCP	7	GW				<2	
11	MC32516-2	8			8						
12	↓ -18	8		↓.	9				1:5		
13	MC32432-1	1	MS32441	V. B. BFX	10				1:1		
14	MC32437-2	5		↓	11						
15	MC32407-8	2	MS32458	V. B. STD	12						
16	MC32523-1	1			13						RR=1:10
17	↓ -2				14						C.O. RR
18	↓ -3				15						
19	↓ -4				16						
20	↓ -5				17						
21	MC32439-1	2	MS32442	V. B. STD40	18						
22	MC32523-4M		MS32458	V. B. STD	19				1:5		
23	↓ -4M				20				↓		✓✓
24	MC32523-1	✓			21				1:10		
25	↓ -6	1			22				1:1		
26	↓ -7				23						
27	↓ -8				24						
28	MC32511-1				25						
29	↓ -3				26						
30	↓ -2				27						RR=1:10
X31	MC32432-6	3			28						C.O. RR
32	HR	NA	NA	NA	29	NA				NA	
33	↓				30						
34	↓				31						

MTX = Matrix: Designate W for water, S for soil, O for oil.

Sample amount is reported in grams (wet) for soil and oil, mls for water.

MS001-05 Date: 07/22/13

Review: _____

General Chemistry

QC Data Summaries

∞

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries
- Instrument Runlogs/QC

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: MC32489
Account: WSPVAR - WSP Environmental & Energy
Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Cyanide	GP17981/GN47894	0.010	0.0	mg/l	0.1	0.0987	98.7	90-110%
Cyanide	GP17981/GN47894			mg/l	0.2	0.204	102.0	90-110%

Associated Samples:
Batch GP17981: MC32489-2
(*) Outside of QC limits

8.1
8

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: MC32489
Account: WSPVAR - WSP Environmental & Energy
Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Cyanide	GP17981/GN47894	MC32562-1	mg/l	0.0	0.0	0.0	0-20%

Associated Samples:
Batch GP17981: MC32489-2
(*) Outside of QC limits

8.2

8

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: MC32489
Account: WSPVAR - WSP Environmental & Energy
Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Cyanide	GP17981/GN47894	MC32562-1	mg/l	0.0	0.1	0.11	110.0	75-125%

Associated Samples:

Batch GP17981: MC32489-2

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

8.3

8

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: MC32489

Account: WSPVAR - WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: 080714W1.CN

Date Analyzed: 08/07/14

Methods: SW846 9012

Analyst: MA

Run ID: GN47894

Parameters: Cyanide

Time	Sample Description	Dilution Factor	PS Recov	Comments
10:52	GN47894-STD1	1		STDA0.50
10:53	GN47894-STD2	1		STDB0.30
10:54	GN47894-STD3	1		STDC0.20
10:56	GN47894-STD4	1		STDD0.10
10:57	GN47894-STD5	1		STDE0.030
10:58	GN47894-STD6	1		STDF0.010
10:59	GN47894-STD7	1		STDG0.00
11:02	GN47894-ICV1	1		
11:03	GN47894-ICB1	1		
11:04	GN47894-CCV3	1		
11:05	GN47894-CCB3	1		
11:06	GP17981-MB1	1		
11:07	GP17981-B1	1		
11:08	GP17981-B2	1		
11:09	GP17981-S1	1		
11:10	GP17981-D1	1		
11:11	MC32562-1	1		(sample used for QC only; not part of login MC32489)
11:12	ZZZZZZ	1		
11:13	ZZZZZZ	1		
11:14	ZZZZZZ	1		
11:15	ZZZZZZ	1		
11:16	GN47894-CCV4	1		
11:17	GN47894-CCB4	1		
11:18	ZZZZZZ	1		
11:19	ZZZZZZ	1		
11:20	ZZZZZZ	1		
11:22	ZZZZZZ	1		
11:23	ZZZZZZ	1		
11:24	ZZZZZZ	1		DNR, offscale
11:25	GN47894-CCV5	1		
11:26	GN47894-CCB5	1		
12:01	GN47894-CCV1	1		
12:02	GN47894-CCB1	1		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: MC32489

Account: WSPVAR - WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: 080714W1.CN

Date Analyzed: 08/07/14

Methods: SW846 9012

Analyst: MA

Run ID: GN47894

Parameters: Cyanide

Time	Sample Description	Dilution Factor	PS Recov	Comments

12:03 MC32489-2 10

12:04 GN47894-CCV2 1

12:05 GN47894-CCB2 1

Refer to raw data for calibration curve and standards.

8.4

8

Instrument QC Summary
Inorganics Analyses

Login Number: MC32489

Account: WSPVAR - WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: 080714W1.CN

Date Analyzed: 08/07/14

Methods: SW846 9012

Run ID: GN47894

Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN47894-ICV1	Cyanide	0.20	0.010	0.0014	.2	100.0	90-110
GN47894-ICB1	Cyanide	0.0014 U	0.010	0.0014			
GN47894-CCV3	Cyanide	0.30	0.010	0.0014	.3	100.0	90-110
GN47894-CCB3	Cyanide	0.0014 U	0.010	0.0014			
GN47894-CCV4	Cyanide	0.31	0.010	0.0014	.3	103.3	90-110
GN47894-CCB4	Cyanide	-0.0057	0.010	0.0014			
GN47894-CCV5	Cyanide	0.31	0.010	0.0014	.3	103.3	90-110
GN47894-CCB5	Cyanide	-0.0058	0.010	0.0014			
GN47894-CCV1	Cyanide	0.31	0.010	0.0014	.3	103.3	90-110
GN47894-CCB1	Cyanide	-0.0067	0.010	0.0014			
GN47894-CCV2	Cyanide	0.31	0.010	0.0014	.3	103.3	90-110
GN47894-CCB2	Cyanide	-0.0044	0.010	0.0014			

(!) Outside of QC limits

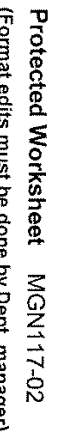
8.4

8

General Chemistry

Raw Data

6



Protected Worksheet MGN117-02
(Format edits must be done by Dept manager)

Reagents					
Calib STD	GNSTD-	34734-CN	Buffer	RGT-	41719-CN
ICV	GNSTD-	34732-CN-2	Carrier	RGT-	41375-CN
CCV	GNSTD-	34734-CN-4	Chloramine-T	RGT-	41972-CN
Silver Nitrate	RGT-	41629-CN	Pyridine Barb. Acid	RGT-	41720-CN
Rhodanine Indicator	RGT-	41630-CN	CN STOCK STD	GNSTD-	34735-CN-1

QC Review *WJ* Date: 08/27/14


ACCUTEST™

(Format edits must be done by Dept. manager)

Analysis Type

Sample ID	Bot #	ID	Interfere Chk		Init. pH	SMPL Amt	DIST Vol	Start Time	End Time	Comments/Spike
			CL	S		ML	ML			

9.1

Comment:

08/07/14

Author: chemistry

Date : 8/7/2014

Original Run Filename: OM_8-7-2014_10-51-51AM.OMN Created: 8/7/2014 10:51:51 AM

Original Run Author's Signature: [chemistry]

Current Run Filename: OM_8-7-2014_10-51-51AM.OMN Last Modified: 8/7/2014 11:28:12 AM

Current Run Author's Signature: [chemistry]

Description: Default New Run

Sample	Rep.	Channel 1 Cn (mg/L)	MDF
StdA0.50	1	0.500	
StdB0.30	1	0.300	
StdC0.20	1	0.200	
StdD0.10	1	0.100	
StdE0.030	1	0.0300	
StdF0.010	1	0.0100	
StdG0.00	1	0.00	
ICV	1	0.202	
Calibration:		Table/Fig. : 1	
ICB	1	-1.25e-3	
CCV	1	0.300	
CCB	1	3.63e-4	
GP17981-MB1	1	-5.30e-3	
GP17981-B1	1	0.0987	
GP17981-B2	1	0.204	
GP17981-S1	1	0.106	
GP17981-D1	1	-4.07e-4	
MC31562-1	1	-2.03e-3	
MC32562-2	1	-1.86e-3	
MC32562-3	1	-1.90e-3	
MC32562-4	1	-2.83e-3	
MC32562-5	1	5.68e-3	
CCV	1	0.309	
CCB	1	-5.73e-3	
MC32562-6	1	5.79e-3	
MC32562-7	1	-3.65e-3	
MC32562-8	1	-2.05e-3	
MC32562-9	1	-3.95e-3	
MC32562-12	1	-3.60e-3	
MC32489-2	1	1.83	
CCV	1	0.307	
CCB	1	-5.78e-3	

DNR offscale. *MA 8-7-14*

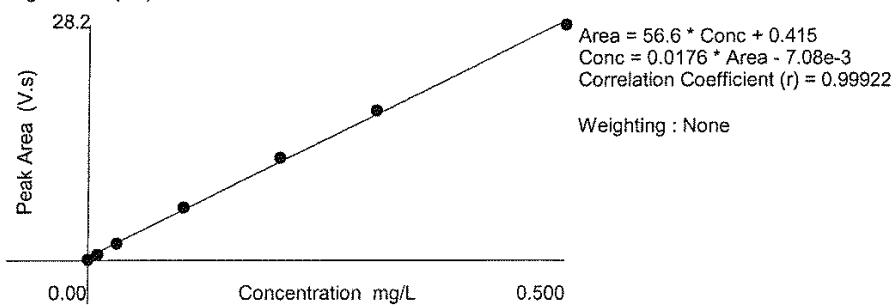
Table : 1 (Cn)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	0.500	1	28.2	1.44	0.0	1.9	0.490	8/7/2014	10:52:46 AM
2	0.300	1	17.9	0.922	0.0	-2.9	0.309	8/7/2014	10:53:51 AM
3	0.200	1	12.2	0.630	0.0	-4.1	0.208	8/7/2014	10:54:56 AM
4	0.100	1	6.32	0.326	0.0	-4.1	0.104	8/7/2014	10:56:00 AM
5	0.0300	1	2.03	0.103	0.0	4.1	0.0287	8/7/2014	10:57:05 AM
6	0.0100	1	0.679	0.0347	0.0	30.8	4.91e-3	8/7/2014	10:58:09 AM
7	0.00	1	0.103	5.95e-3			-5.26e-3	8/7/2014	10:59:14 AM

Author: chemistry

Date : 8/7/2014

Figure : 1 (Cn)



Author: chemistry

Date : 8/7/2014

Original Run Filename: OM_8-7-2014_12-00-44PM.OMN Created: 8/7/2014 12:00:44 PM

Original Run Author's Signature: [chemistry]

Current Run Filename: OM_8-7-2014_12-00-44PM.OMN Last Modified: 8/7/2014 12:07:52 PM

Current Run Author's Signature: [chemistry]

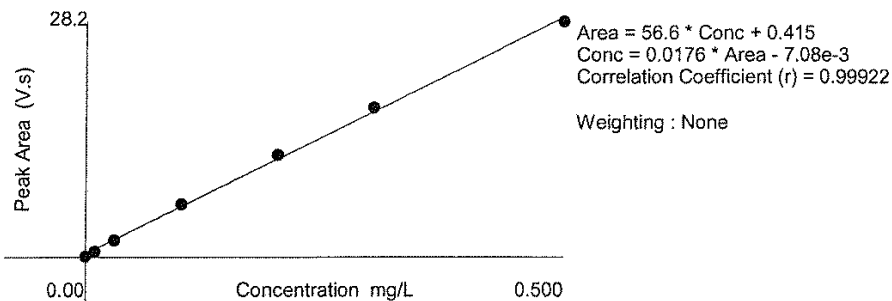
Description: Default New Run

Sample	Rep.	Channel 1 Cn (mg/L)	MDF
CCV	1	0.306	
Calibration: Table/Fig.: 1			
CCB	1	-6.66e-3	
MC32489-2	1	0.209	10.00
CCV	1	0.308	
CCB	1	-4.42e-3	

Table : 1 (Cn)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	0.500	1	28.2	1.44	0.0	1.9	0.490	8/7/2014	10:52:46 AM
2	0.300	1	17.9	0.922	0.0	-2.9	0.309	8/7/2014	10:53:51 AM
3	0.200	1	12.2	0.630	0.0	-4.1	0.208	8/7/2014	10:54:56 AM
4	0.100	1	6.32	0.326	0.0	-4.1	0.104	8/7/2014	10:56:00 AM
5	0.0300	1	2.03	0.103	0.0	4.1	0.0287	8/7/2014	10:57:05 AM
6	0.0100	1	0.679	0.0347	0.0	30.8	4.91e-3	8/7/2014	10:58:09 AM
7	0.00	1	0.103	5.95e-3			-5.26e-3	8/7/2014	10:59:14 AM

Figure : 1 (Cn)





08/18/14

Technical Report for

WSP Environmental & Energy

Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY
4255-6

Accutest Job Number: MC32842

Sampling Date: 08/11/14

Report to:

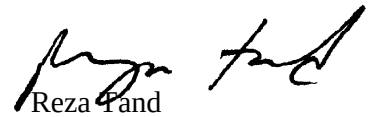
WSP Environmental & Energy
11190 Sunrise Valley Dr
Reston, VA 20191
Lisa.bryda@wspgroup.com

ATTN: Lisa Bryda

Total number of pages in report: **71**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.


Reza Fand
Lab Director

Client Service contact: Frank DAgostino 508-481-6200

Certifications: MA (M-MA136, SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

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Sample Summary

WSP Environmental & Energy

Job No: MC32842

Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY
Project No: 4255-6

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
MC32842-1	08/11/14	12:45	08/13/14	AQ	Ground Water	LBA-MW-18(0811)



SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: WSP Environmental & Energy

Job No MC32842

Site: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca,

Report Date 8/18/2014 3:28:44 PM

1 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were collected on 08/11/2014 and were received at Accutest on 08/13/2014 properly preserved, at 0.4 Deg. C and intact. These Samples received an Accutest job number of MC32842. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Sample Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Metals By Method SW846 6010C

Matrix AQ

Batch ID: MP23493

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Wet Chemistry By Method SW846 9012

Matrix AQ

Batch ID: GP18034

- All samples were distilled within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC32881-1DUP, MC32881-1MS were used as the QC samples for Cyanide.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report (MC32842).

Summary of Hits

Job Number: MC32842
Account: WSP Environmental & Energy
Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY
Collected: 08/11/14



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC32842-1	LBA-MW-18(0811)					
Barium		8050	50	2.0	ug/l	SW846 6010C
Cyanide		0.71	0.020		mg/l	SW846 9012

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	LBA-MW-18(0811)	Date Sampled:	08/11/14
Lab Sample ID:	MC32842-1	Date Received:	08/13/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Barium	8050	50	2.0	ug/l	1	08/15/14	08/18/14 EAL	SW846 6010C ¹	SW846 3010A ²

(1) Instrument QC Batch: MA17448
(2) Prep QC Batch: MP23493

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	LBA-MW-18(0811)	Date Sampled:	08/11/14
Lab Sample ID:	MC32842-1	Date Received:	08/13/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	0.71	0.020	mg/l	2	08/18/14 12:41	MA	SW846 9012

RL = Reporting Limit

4.1
4

Misc. Forms

5

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

CHAIN OF CUSTODY RECORD

Page 1 of 1

Project Number: 4255/6		Site and Location: EPT Ithaca		Matrices: S = Soil: Aq = Water A = Air: Bu = Bulk W = Wipe Bi = Biota: OW = Oily Waste: O = Other		Requested Analyses										Page 1 of 1							
Contact Name: lisa.bryda@wspgroup.com		Contact Email: lisa.bryda@wspgroup.com		Sampler's Name: Anthony [Signature]		Sampler's Signature: [Signature]		Number of Containers		Barium Cyanide										Nº			
Sample Identification: LBA-MW-18 (0811)		Depth: -		Date: 081114		Time: 1245		Matrix: dg		2		X X										mc32842	
Remarks		10B 6F																					
Relinquished by (Signature): [Signature]		Date Time: 081214		Received by (Signature): FedEx		Date Time: 081314		Laboratory Name: Accutest		Laboratory Location: MA		Custody Seal Numbers:		Method of Shipment: FedEx		0.4°C		WSP					
Relinquished by (Signature): FX		Date Time: 081314		Received by (Signature): [Signature]		Date Time:		Laboratory Name:		Laboratory Location:		Custody Seal Numbers:		Method of Shipment:		WSP Environment & Energy		FX 9-13-14 [Signature]					
Turn-Around Time: 7 day		Tracking Number:		Reston Office: 11190 Sunrise Valley Dr., #300, Reston, VA 20191 / Tel: 703-709-6500		Pittsburgh Office: 750 Holiday Dr., #410, Pittsburgh, PA 15220 / Tel: 412-604-1040		San Jose Office: 2025 Gateway Place, #435, San Jose, CA 95110 / Tel: 408-453-6100		New Jersey Office: 200 Cottontail Ln., Somerset, NJ 08873 / Tel: 732-564-0888		Denver Office: 4600 South Ulster, #930, Denver, CO 80237 / Tel: 303-850-9200		Minneapolis Office: 123 North 3rd St., #808, Minneapolis, MN 55401 / Tel: 612-343-0510		Woburn Office: 300 Trade Center, Suite 4690, Woburn, MA 01801		Cazenovia Office: 5 Sullivan St., Cazenovia, NY 13035 / Tel: 315-655-3900					

MC32842: Chain of Custody

Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC32842 **Client:** WSP **Immediate Client Services Action Required:** No
Date / Time Received: 8/13/2014 **Delivery Method:** **Client Service Action Required at Login:** No
Project: 4255/6 **No. Coolers:** 1 **Airbill #'s:**

Cooler Security **Y or N** **Y or N**
1. Custody Seals Present: ☒ ☐ 3. COC Present: ☒ ☐
2. Custody Seals Intact: ☒ ☐ 4. Smpl Dates/Time OK ☒ ☐

Cooler Temperature **Y or N**
1. Temp criteria achieved: ☒ ☐
2. Cooler temp verification: Infrared gun
3. Cooler media: Ice (bag)

Quality Control Preservation **Y** **or** **N** **N/A**
1. Trip Blank present / cooler: ☐ ☐ ☒
2. Trip Blank listed on COC: ☐ ☐ ☒
3. Samples preserved properly: ☒ ☐
4. VOCs headspace free: ☐ ☐ ☒

Sample Integrity - Documentation **Y or N**
1. Sample labels present on bottles: ☒ ☐
2. Container labeling complete: ☒ ☐
3. Sample container label / COC agree: ☒ ☐

Sample Integrity - Condition **Y or N**
1. Sample recvd within HT: ☒ ☐
2. All containers accounted for: ☒ ☐
3. Condition of sample: Intact

Sample Integrity - Instructions **Y** **or** **N** **N/A**
1. Analysis requested is clear: ☒ ☐
2. Bottles received for unspecified tests: ☐ ☒
3. Sufficient volume recvd for analysis: ☒ ☐
4. Compositing instructions clear: ☐ ☐ ☒
5. Filtering instructions clear: ☐ ☐ ☒

Comments

Internal Sample Tracking Chronicle

WSP Environmental & Energy

Job No: MC32842

Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY
Project No: 4255-6

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC32842-1 Collected: 11-AUG-14 12:45 By: Received: 13-AUG-14 By: AF LBA-MW-18(0811)						
MC32842-1	SW846 6010C	18-AUG-14 11:37	EAL	15-AUG-14 EM	BA	
MC32842-1	SW846 9012	18-AUG-14 12:41	MA	18-AUG-14 MA	CN	

Accutest Internal Chain of Custody

Page 1 of 1

Job Number: MC32842

Account: WSPVAR WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Received: 08/13/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC32842-1.1	Walk In Ref #9	Mehdi Abdolrahim	08/18/14 08:16	Retrieve from Storage
MC32842-1.1	Mehdi Abdolrahim	Walk In Ref #9	08/18/14 10:09	Return to Storage
MC32842-1.2	Walk In Ref #5	Eric Mensah	08/15/14 12:30	Retrieve from Storage
MC32842-1.2	Eric Mensah	Walk In Ref #5	08/18/14 10:03	Return to Storage

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Instrument Runlogs
- Initial and Continuing Calibration Blanks
- Initial and Continuing Calibration Checks
- High and Low Check Standards
- Interfering Element Check Standards
- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: MC32842

Account: WSPVAR - WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB081814M1.ICP

Date Analyzed: 08/18/14

Methods: SW846 6010C

Analyst: EAL

Run ID: MA17448

Parameters: Ba

Time	Sample Description	Dilution Factor	PS Recov	Comments
09:44	MA17448-STD1	1		STD1
09:50	MA17448-STD2	1		STD2
09:55	MA17448-ICV1	1		
10:02	MA17448-ICB1	1		
10:08	MA17448-CCV1	1		
10:13	MA17448-CCB1	1		
10:19	MA17448-CRI1	1		
10:24	MA17448-ICSA1	1		
10:30	MA17448-ICSAB1	1		
10:36	MP23493-B1	1		
10:41	MP23493-MB1	1		
10:47	MP23493-S1	1		
10:52	MP23493-S2	1		
10:58	MC32825-4	1		(sample used for QC only; not part of login MC32842)
11:03	MP23493-SD1	5		
11:09	ZZZZZZ	1		DNR: BSD NOT NEEDED.
11:15	MA17448-CCV2	1		
11:20	MA17448-CCB2	1		
11:26	ZZZZZZ	1		DNR: FOR CONFIRMATION ONLY.
11:31	ZZZZZZ	1		DNR: FOR CONFIRMATION ONLY.
11:37	MC32842-1	1		
----->	Last reportable sample/prep for job MC32842			
11:43	ZZZZZZ	1		
11:48	ZZZZZZ	1		
11:54	ZZZZZZ	1		DNR: METALS BY 200.7 EPR CLIENT.
12:00	MA17448-CRI2	1		
12:05	MA17448-ICSA2	1		
12:11	MA17448-ICSAB2	1		
12:17	MA17448-CCV3	1		
12:22	MA17448-CCB3	1		
----->	Last reportable CCB for job MC32842			
	Refer to raw data for calibration curve and standards.			

INTERNAL STANDARD SUMMARY

Login Number: MC32842
 Account: WSPVAR - WSP Environmental & Energy
 Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB081814M1.ICP Date Analyzed: 08/18/14 Methods: SW846 6010C
 Analyst: EAL Run ID: MA17448
 Parameters: Ba

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
09:44	MA17448-STD1	2559 R	105130 R	15420 R	4916 R
09:50	MA17448-STD2	2543	106200	16462	5045
09:55	MA17448-ICV1	2528	105240	16181	5000
10:02	MA17448-ICB1	2594	107750	16536	5005
10:08	MA17448-CCV1	2584	107940	16514	5073
10:13	MA17448-CCB1	2578	107380	16296	4986
10:19	MA17448-CRI1	2573	106920	16499	4997
10:24	MA17448-ICSA1	2308	97601	15466	4739
10:30	MA17448-ICSAB1	2313	97400	15696	4750
10:36	MP23493-B1	2521	106090	16392	4974
10:41	MP23493-MB1	2526	106440	16451	4902
10:47	MP23493-S1	2515	105850	16495	4972
10:52	MP23493-S2	2499	105100	16235	4938
10:58	MC32825-4	2545	106870	16600	4948
11:03	MP23493-SD1	2559	106550	16332	4955
11:09	ZZZZZZ	2513	105630	16341	4970
11:15	MA17448-CCV2	2561	105870	16383	5041
11:20	MA17448-CCB2	2582	107560	16576	5002
11:26	ZZZZZZ	2645	110780	17385	5141
11:31	ZZZZZZ	2647	110740	17013	5145
11:37	MC32842-1	2514	104120	16270	4950
11:43	ZZZZZZ	2502	103290	16008	4924
11:48	ZZZZZZ	2470	103740	15978	4911
11:54	ZZZZZZ	2553	106250	16568	5032
12:00	MA17448-CRI2	2571	106190	16300	5018
12:05	MA17448-ICSA2	2317	97839	15670	4772
12:11	MA17448-ICSAB2	2332	98048	15803	4797
12:17	MA17448-CCV3	2568	105880	16259	5056
12:22	MA17448-CCB3	2575	106040	16322	4984

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	70-130 %
Istd#2	Yttrium (3600)	70-130 %
Istd#3	Yttrium (3710)	70-130 %
Istd#4	Indium	70-130 %

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: MC32842
Account: WSPVAR - WSP Environmental & Energy
Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB081814M1.ICP Date Analyzed: 08/18/14 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA17448 Units: ug/l

Time: Sample ID:	RL	IDL	10:02 ICB1 raw	final	10:13 CCB1 raw	final	11:20 CCB2 raw	final	12:22 CCB3 raw	final
Metal										
Aluminum	200	7.5	anr							
Antimony	6.0	.94	anr							
Arsenic	4.0	.64	anr							
Barium	50	.17	0.0	<50	0.10	<50	0.10	<50	0.10	<50
Beryllium	4.0	.04	anr							
Bismuth	50	1								
Boron	100	1.1								
Cadmium	4.0	.16	anr							
Calcium	5000	3.8	anr							
Chromium	10	.43	anr							
Cobalt	50	.19	anr							
Copper	25	.44	anr							
Gold	50	.67								
Iron	100	1.9	anr							
Lead	5.0	.83	anr							
Lithium	500	1.5								
Magnesium	5000	27	anr							
Manganese	15	.04	anr							
Molybdenum	100	1.6								
Nickel	40	.23	anr							
Palladium	50	.98								
Platinum	50	2.3								
Potassium	5000	28	anr							
Selenium	10	1.8	anr							
Silicon	100	5.9								
Silver	5.0	.5	anr							
Sodium	5000	6.5	anr							
Sulfur	50	2								
Strontium	10	.079								
Thallium	5.0	1.3	anr							
Tin	100	.74								
Titanium	50	.25								
Tungsten	100	2.6								

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: MC32842
Account: WSPVAR - WSP Environmental & Energy
Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB081814M1.ICP Date Analyzed: 08/18/14 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA17448 Units: ug/l

Time: Sample ID:			10:02 ICB1		10:13 CCB1		11:20 CCB2		12:22 CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final

Vanadium 10 .38 anr

Zinc 20 .24 anr

Zirconium 50 .19

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: MC32842
Account: WSPVAR - WSP Environmental & Energy
Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB081814M1.ICP Date Analyzed: 08/18/14 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA17448 Units: ug/l

Time: Sample ID:		09:55 ICV1	% Rec	CCV	10:08 CCV1	% Rec	CCV	11:15 CCV2	% Rec
Metal	ICV True	Results		True	Results		True	Results	
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	3000	3060	102.0	2000	1950	97.5	2000	1970	98.5
Beryllium	anr								
Bismuth									
Boron									
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Gold									
Iron	anr								
Lead	anr								
Lithium									
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Palladium									
Platinum									
Potassium	anr								
Selenium	anr								
Silicon									
Silver	anr								
Sodium	anr								
Sulfur									
Strontium									
Thallium	anr								
Tin									
Titanium									
Tungsten									

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: MC32842

Account: WSPVAR - WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB081814M1.ICP
QC Limits: 90 to 110 % Recovery

Date Analyzed: 08/18/14
Run ID: MA17448

Methods: SW846 6010C
Units: ug/l

Time:		09:55		10:08		11:15	
Sample ID:		ICV		CCV		CCV	
Metal		ICV1		CCV1		CCV2	
		Results	% Rec	Results	% Rec	Results	% Rec

Vanadium anr

Zinc anr

Zirconium

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: MC32842

Account: WSPVAR - WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB081814M1.ICP
QC Limits: 90 to 110 % Recovery

Date Analyzed: 08/18/14
Run ID: MA17448

Methods: SW846 6010C
Units: ug/l

Time: Sample ID: CCV		12:17 CCV3		
Metal	True	Results	% Rec	
Aluminum	anr			
Antimony	anr			
Arsenic	anr			
Barium	2000	1950	97.5	
Beryllium	anr			
Bismuth				
Boron				
Cadmium	anr			
Calcium	anr			
Chromium	anr			
Cobalt	anr			
Copper	anr			
Gold				
Iron	anr			
Lead	anr			
Lithium				
Magnesium	anr			
Manganese	anr			
Molybdenum				
Nickel	anr			
Palladium				
Platinum				
Potassium	anr			
Selenium	anr			
Silicon				
Silver	anr			
Sodium	anr			
Sulfur				
Strontium				
Thallium	anr			
Tin				
Titanium				
Tungsten				

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: MC32842

Account: WSPVAR - WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB081814M1.ICP
QC Limits: 90 to 110 % Recovery

Date Analyzed: 08/18/14
Run ID: MA17448

Methods: SW846 6010C
Units: ug/l

Time:	12:17
Sample ID:	CCV
Metal	True
Results	% Rec

Vanadium anr

Zinc anr

Zirconium

(*) Outside of QC limits
(anr) Analyte not requested

6.1.3

6

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: MC32842

Account: WSPVAR - WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB081814M1.ICP

Date Analyzed: 08/18/14

Methods: SW846 6010C

QC Limits: CRI 70-130% CRIA 70-130%

Run ID: MA17448

Units: ug/l

Time: Sample ID:	CRI	CRIA	10:19 CRI1	% Rec	12:00 CRI2	% Rec
Metal	True	True	Results		Results	
Aluminum	200	200	anr			
Antimony	6.0	10	anr			
Arsenic	4.0	10	anr			
Barium	50	50	49.6	99.2	50.0	100.0
Beryllium	4.0	4.0	anr			
Bismuth	50	50				
Boron	100	100				
Cadmium	4.0	4.0	anr			
Calcium	5000	5000	anr			
Chromium	10	10	anr			
Cobalt	50	50	anr			
Copper	25	25	anr			
Gold	50	50				
Iron	100	100	anr			
Lead	5.0	10	anr			
Lithium	500	500				
Magnesium	5000	5000	anr			
Manganese	15	15	anr			
Molybdenum	100	100				
Nickel	40	40	anr			
Palladium	50	50				
Platinum	50	50				
Potassium	5000	5000	anr			
Selenium	10	10	anr			
Silicon	100	100				
Silver	5.0	5.0	anr			
Sodium	5000	5000	anr			
Sulfur	50	50				
Strontium	10	10				
Thallium	5.0	10	anr			
Tin	100	100				
Titanium	50	50				
Tungsten	100	100				

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: MC32842

Account: WSPVAR - WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB081814M1.ICP

Date Analyzed: 08/18/14

Methods: SW846 6010C

QC Limits: CRI 70-130% CRIA 70-130%

Run ID: MA17448

Units: ug/l

Time:						
Sample ID:	CRI	CRIA	10:19 CRI1	% Rec	12:00 CRI2	% Rec
Metal	True	True	Results		Results	

Vanadium 10 10 anr

Zinc 20 20 anr

Zirconium 50 50

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: MC32842

Account: WSPVAR - WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB081814M1.ICP
QC Limits: 80 to 120 % Recovery

Date Analyzed: 08/18/14
Run ID: MA17448

Methods: SW846 6010C
Units: ug/l

Time: Sample ID:	ICSA True	ICSAB True	10:24 ICSA1 Results	% Rec	10:30 ICSAB1 Results	% Rec	12:05 ICSA2 Results	% Rec	12:11 ICSAB2 Results	% Rec
Metal										
Aluminum	500000	500000	522000	104.4	521000	104.2	517000	103.4	517000	103.4
Antimony		2000	1.0		2100	105.0	2.5		2080	104.0
Arsenic		2000	0.70		2020	101.0	0.30		2020	101.0
Barium		500	0.50		480	96.0	0.50		482	96.4
Beryllium		500	0.0		479	95.8	0.0		478	95.6
Bismuth		500	2.3		529	105.8	1.5		519	103.8
Boron		1000	2.0		1060	106.0	2.1		1060	106.0
Cadmium		1000	0.0		1040	104.0	-0.20		1040	104.0
Calcium	500000	500000	459000	91.8	458000	91.6	462000	92.4	457000	91.4
Chromium		500	0.20		461	92.2	0.0		458	91.6
Cobalt		500	0.90		462	92.4	0.70		460	92.0
Copper		500	-0.20		524	104.8	-0.70		521	104.2
Gold		500	-0.90		497	99.4	-1.4		496	99.2
Iron	200000	200000	184000	92.0	181000	90.5	183000	91.5	182000	91.0
Lead		1000	0.30		937	93.7	-0.30		932	93.2
Lithium		500	7.6		506	101.2	7.0		505	101.0
Magnesium	500000	500000	524000	104.8	521000	104.2	520000	104.0	517000	103.4
Manganese		500	-0.10		480	96.0	-0.30		475	95.0
Molybdenum		1000	2.4		963	96.3	1.7		959	95.9
Nickel		1000	0.0		901	90.1	0.10		892	89.2
Palladium		500	-0.20		550	110.0	0.80		547	109.4
Platinum		500	-1.2		499	99.8	-3.9		497	99.4
Potassium			-160		-150		-140		-160	
Selenium		2000	-1.0		2020	101.0	-2.4		2000	100.0
Silicon		2000	24.0		2110	105.5	27.1		2090	104.5
Silver		1000	0.10		1030	103.0	-0.20		1040	104.0
Sodium			86.2		84.8		102		97.2	
Sulfur		500	49.2		578	115.6	53.2		575	115.0
Strontium		1000	1.3		987	98.7	1.3		988	98.8
Thallium		2000	-0.70		1950	97.5	-0.90		1950	97.5
Tin		1000	2.8		1010	101.0	3.1		999	99.9
Titanium		500	0.40		478	95.6	0.40		473	94.6
Tungsten		2000	22.5		1950	97.5	15.0		1940	97.0

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: MC32842
 Account: WSPVAR - WSP Environmental & Energy
 Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB081814M1.ICP Date Analyzed: 08/18/14 Methods: SW846 6010C
 QC Limits: 80 to 120 % Recovery Run ID: MA17448 Units: ug/l

Time:				10:24		10:30		12:05		12:11	
Sample ID:	ICSAB	ICSAB	ICSAB	% Rec	Results	% Rec	Results	% Rec	Results	% Rec	Results
Metal	True	True	True								
Vanadium		500	1.0		477	95.4	1.2		469	93.8	
Zinc		1000	0.10		903	90.3	-0.30		901	90.1	
Zirconium		500	1.7		353	70.6*	1.4		343	68.6*	
(*) Outside of QC limits											
(anr) Analyte not requested											

6.1.5

6

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: MC32842

Account: WSPVAR - WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

QC Batch ID: MP23493

Methods: SW846 6010C

Matrix Type: AQUEOUS

Units: ug/l

Prep Date:

08/15/14

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	7.5	13		
Antimony	6.0	.94	2.4		
Arsenic	4.0	.64	2.4		
Barium	50	.17	2	0.20	<50
Beryllium	4.0	.04	.18		
Bismuth	50	1	3		
Boron	100	1.1	3.4		
Cadmium	4.0	.16	.24		
Calcium	5000	3.8	21		
Chromium	10	.43	.73		
Cobalt	50	.19	.6		
Copper	25	.44	3.6		
Gold	50	.67	1.4		
Iron	100	1.9	7.4		
Lead	5.0	.83	1.9		
Lithium	500	1.5	45		
Magnesium	5000	27	74		
Manganese	15	.04	.35		
Molybdenum	100	1.6	.81		
Nickel	40	.23	.57		
Palladium	50	.98	6.5		
Platinum	50	2.3	5.1		
Potassium	5000	28	69		
Selenium	10	1.8	2.7		
Silicon	100	5.9	21		
Silver	5.0	.5	.96		
Sodium	5000	6.5	22		
Sulfur	50	2	9.7		
Strontium	10	.079	.18		
Thallium	5.0	1.3	1.5		
Tin	100	.74	3.3		
Titanium	50	.25	.89		
Tungsten	100	2.6	5.2		

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: MC32842
Account: WSPVAR - WSP Environmental & Energy
Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

QC Batch ID: MP23493
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 08/15/14

Metal	RL	IDL	MDL	MB raw	final

Vanadium	10	.38	.72		
Zinc	20	.24	4.2		
Zirconium	50	.19	1.3		

Associated samples MP23493: MC32842-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

6.2.1

6

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: MC32842

Account: WSPVAR - WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

QC Batch ID: MP23493

Methods: SW846 6010C

Matrix Type: AQUEOUS

Units: ug/l

Prep Date: 08/15/14

Metal	MC32825-4 Original MS	Spike Lot MPICP		% Rec	QC Limits
Aluminum	anr				
Antimony	anr				
Arsenic	anr				
Barium	80.3	2050	2000	98.5	75-125
Beryllium	anr				
Bismuth					
Boron					
Cadmium	anr				
Calcium	anr				
Chromium	anr				
Cobalt	anr				
Copper	anr				
Gold					
Iron	anr				
Lead	anr				
Lithium					
Magnesium	anr				
Manganese	anr				
Molybdenum					
Nickel	anr				
Palladium					
Platinum					
Potassium	anr				
Selenium	anr				
Silicon					
Silver	anr				
Sodium	anr				
Sulfur					
Strontium					
Thallium	anr				
Tin					
Titanium					
Tungsten					

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: MC32842
 Account: WSPVAR - WSP Environmental & Energy
 Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

QC Batch ID: MP23493
 Matrix Type: AQUEOUS

Methods: SW846 6010C
 Units: ug/l

Prep Date: 08/15/14

Metal	MC32825-4 Original MS	Spikelet MPICP	% Rec	QC Limits

Vanadium anr

Zinc anr

Zirconium

Associated samples MP23493: MC32842-1

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

6.2.2

6

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: MC32842

Account: WSPVAR - WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

QC Batch ID: MP23493

Methods: SW846 6010C

Matrix Type: AQUEOUS

Units: ug/l

Prep Date:

08/15/14

Metal	MC32825-4 Original	MSD	Spike/lot MPICP	% Rec	MSD RPD	QC Limit
Aluminum	anr					
Antimony	anr					
Arsenic	anr					
Barium	80.3	2030	2000	97.5	1.0	20
Beryllium	anr					
Bismuth						
Boron						
Cadmium	anr					
Calcium	anr					
Chromium	anr					
Cobalt	anr					
Copper	anr					
Gold						
Iron	anr					
Lead	anr					
Lithium						
Magnesium	anr					
Manganese	anr					
Molybdenum						
Nickel	anr					
Palladium						
Platinum						
Potassium	anr					
Selenium	anr					
Silicon						
Silver	anr					
Sodium	anr					
Sulfur						
Strontium						
Thallium	anr					
Tin						
Titanium						
Tungsten						

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: MC32842
 Account: WSPVAR - WSP Environmental & Energy
 Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

QC Batch ID: MP23493
 Matrix Type: AQUEOUS

Methods: SW846 6010C
 Units: ug/l

Prep Date: 08/15/14

Metal	MC32825-4 Original MSD	Spike lot MPICP	% Rec	MSD RPD	QC Limit

Vanadium anr

Zinc anr

Zirconium

Associated samples MP23493: MC32842-1

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

6.2.2

6

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: MC32842

Account: WSPVAR - WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

QC Batch ID: MP23493

Methods: SW846 6010C

Matrix Type: AQUEOUS

Units: ug/l

Prep Date: 08/15/14

Metal	BSP Result	Spike lot MPICP	% Rec	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	anr			
Barium	1970	2000	98.5	80-120
Beryllium	anr			
Bismuth				
Boron				
Cadmium	anr			
Calcium	anr			
Chromium	anr			
Cobalt	anr			
Copper	anr			
Gold				
Iron	anr			
Lead	anr			
Lithium				
Magnesium	anr			
Manganese	anr			
Molybdenum				
Nickel	anr			
Palladium				
Platinum				
Potassium	anr			
Selenium	anr			
Silicon				
Silver	anr			
Sodium	anr			
Sulfur				
Strontium				
Thallium	anr			
Tin				
Titanium				
Tungsten				

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: MC32842

Account: WSPVAR - WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

QC Batch ID: MP23493

Methods: SW846 6010C

Matrix Type: AQUEOUS

Units: ug/l

Prep Date: 08/15/14

Metal	BSP Result	Spike lot MPICP	% Rec	QC Limits

Vanadium anr

Zinc anr

Zirconium

Associated samples MP23493: MC32842-1

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

6.2.3

6

SERIAL DILUTION RESULTS SUMMARY

Login Number: MC32842

Account: WSPVAR - WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

QC Batch ID: MP23493

Methods: SW846 6010C

Matrix Type: AQUEOUS

Units: ug/l

Prep Date: 08/15/14

Metal	MC32825-4 Original	SDL 1:5	%DIF	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	anr			
Barium	80.3	82.7	3.0	0-10
Beryllium	anr			
Bismuth				
Boron				
Cadmium	anr			
Calcium	anr			
Chromium	anr			
Cobalt	anr			
Copper	anr			
Gold				
Iron	anr			
Lead	anr			
Lithium				
Magnesium	anr			
Manganese	anr			
Molybdenum				
Nickel	anr			
Palladium				
Platinum				
Potassium	anr			
Selenium	anr			
Silicon				
Silver	anr			
Sodium	anr			
Sulfur				
Strontium				
Thallium	anr			
Tin				
Titanium				
Tungsten				

SERIAL DILUTION RESULTS SUMMARY

Login Number: MC32842
 Account: WSPVAR - WSP Environmental & Energy
 Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

QC Batch ID: MP23493
 Matrix Type: AQUEOUS

Methods: SW846 6010C
 Units: ug/l

Prep Date: 08/15/14

Metal	MC32825-4 Original SDL 1:5	%DIF	QC Limits

Vanadium anr

Zinc anr

Zirconium

Associated samples MP23493: MC32842-1

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

6.2.4

6

Metals Analysis

Raw Data

7

Sample Name: STD1 Acquired: 8/18/2014 9:44:45 Type: Cal
Method: Accutest2(v113) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-0.0014	-0.0003	-0.0009	-0.0000	.0013	-0.0007	.0000	.0011	.0055
Stddev	.0000	.0001	.0001	.0000	.0000	.0002	.0000	.0000	.0001
%RSD	.8711	43.96	12.11	36.46	.6660	27.99	135.0	1.953	2.738
#1	-0.0014	-0.0004	-0.0010	-0.0000	.0013	-0.0009	.0000	.0011	.0056
#2	-0.0014	-0.0002	-0.0008	-0.0001	.0013	-0.0006	.0001	.0010	.0054

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0017	-0.0009	.0000	.0022	.0003	.0000	.0012	-0.0000	.0001
Stddev	.0003	.0000	.0000	.0001	.0001	.0000	.0004	.0000	.0000
%RSD	20.19	4.955	121.8	3.876	20.35	58.09	31.24	75.09	.0403

#1	.0019	-0.0009	.0000	.0022	.0003	.0000	.0015	-0.0000	.0001
#2	.0014	-0.0010	.0000	.0021	.0002	.0001	.0009	-0.0001	.0001

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0008	.0015	-0.0013	-0.0010	-0.0002	-0.0002	-0.0003	.0012	.0012
Stddev	.0000	.0001	.0000	.0001	.0000	.0000	.0001	.0000	.0002
%RSD	5.443	7.342	3.223	13.48	15.57	2.628	24.49	3.079	17.18

#1	.0008	.0014	-0.0014	-0.0011	-0.0002	-0.0003	-0.0003	.0011	.0010
#2	.0007	.0015	-0.0013	-0.0009	-0.0003	-0.0002	-0.0002	.0012	.0013

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0168	-0.0001	-0.0026	-0.0003	-0.0020	.0001	.0042	.0003	-0.0002
Stddev	.0002	.0000	.0002	.0001	.0001	.0000	.0001	.0001	.0000
%RSD	1.042	42.94	7.675	19.58	3.482	2.323	2.735	31.14	.4909

#1	.0167	-0.0001	-0.0028	-0.0004	-0.0019	.0001	.0041	.0004	-0.0002
#2	.0169	-0.0001	-0.0025	-0.0003	-0.0020	.0001	.0043	.0003	-0.0002

Raw Data MA17448 page 1 of 58

Sample Name: STD2 Acquired: 8/18/2014 9:50:26 Type: Cal
Method: Accutest2(v113) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0866	1.050	.8244	.1409	1.639	12.28	9.959	1.496	1.136
Stddev	.0001	.002	.0022	.0002	.006	.03	.014	.004	.004
%RSD	.1608	.1702	.2653	.1115	.3444	.2554	.1407	.2376	.3171

#1	.0865	1.052	.8229	.1408	1.635	12.30	9.969	1.494	1.139
#2	.0867	1.049	.8260	.1410	1.643	12.26	9.949	1.499	1.134

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6.667	2.680	.3804	1.404	1.014	.5684	3.605	.0879	2.884
Stddev	.012	.002	.0000	.000	.001	.0021	.006	.0005	.001
%RSD	.1778	.0580	.0077	.0072	.1107	.3681	.1546	.6090	.0265

#1	6.658	2.679	.3804	1.404	1.015	.5698	3.609	.0882	2.885
#2	6.675	2.682	.3804	1.404	1.013	.5669	3.601	.0875	2.884

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4.627	2.860	2.135	.8346	.3038	.0435	.5138	1.231	.6914
Stddev	.025	.001	.001	.0013	.0001	.0000	.0014	.003	.0016
%RSD	.5414	.0412	.0232	.1546	.0393	.0638	.2669	.2000	.2368

#1	4.609	2.861	2.135	.8337	.3037	.0435	.5128	1.229	.6902
#2	4.645	2.859	2.136	.8355	.3039	.0435	.5147	1.233	.6926

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.700	.9486	22.05	.7236	.3243	.5792	1.792	5.034	1.742
Stddev	.005	.0023	.27	.0000	.0004	.0001	.009	.003	.002
%RSD	.2697	.2449	1.226	.0067	.1296	.0170	.4835	.0531	.0833

#1	1.696	.9469	21.86	.7236	.3240	.5792	1.786	5.035	1.741
#2	1.703	.9502	22.24	.7235	.3246	.5791	1.798	5.032	1.743

Raw Data MA17448 page 3 of 58

Sample Name: STD1 Acquired: 8/18/2014 9:44:45 Type: Cal
Method: Accutest2(v113) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4916.0	2559.3	105130.	15420.
Stddev	31.2	7.0	218.	11.
%RSD	.63558	.27277	.20775	.07379

#1	4893.9	2554.3	104980.	15428.
#2	4938.1	2564.2	105290.	15412.

Raw Data MA17448 page 2 of 58

Sample Name: STD2 Acquired: 8/18/2014 9:50:26 Type: Cal
Method: Accutest2(v113) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5045.0	2543.3	106200.	16462.
Stddev	.8	3.7	94.	23.
%RSD	.01616	.14511	.08812	.14002

#1	5044.4	2545.9	106140.	16445.
#2	5045.6	2540.7	106270.	16478.

Raw Data MA17448 page 4 of 58

Sample Name: ICV Acquired: 8/18/2014 9:55:57 Type: QC
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5183	15.79	3.022	3.040	3.137	3.062	3.036	3.024	18.39
Stddev	.0005	.03	.003	.005	.002	.006	.005	.001	.02
%RSD	.0988	.1773	.1091	.1501	.0715	.1967	.1814	.0252	.1088
#1	.5187	15.81	3.019	3.037	3.135	3.066	3.040	3.025	18.40
#2	.5179	15.77	3.024	3.043	3.138	3.057	3.032	3.024	18.38

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass None Chk Pass
Value
Range

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.060	2.986	3.068	2.962	18.47	15.40	2.980	18.73	3.074
Stddev	.003	.004	.009	.000	.05	.01	.007	.09	.004
%RSD	.0904	.1442	.3034	.0105	.2772	.0714	.2322	.4740	.1237
#1	3.058	2.983	3.062	2.962	18.51	15.40	2.985	18.79	3.072
#2	3.062	2.989	3.075	2.963	18.43	15.39	2.975	18.67	3.077

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass None Chk Pass Chk Pass
Value
Range

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.975	15.52	2.986	3.014	3.023	3.093	3.059	3.066	3.017
Stddev	.008	.06	.004	.001	.004	.008	.005	.002	.002
%RSD	.2831	.4031	.1186	.0418	.1230	.2482	.1738	.0722	.0806
#1	2.969	15.57	2.984	3.013	3.020	3.098	3.055	3.065	3.015
#2	2.981	15.48	2.989	3.015	3.026	3.088	3.062	3.068	3.018

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

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Sample Name: ICV Acquired: 8/18/2014 9:55:57 Type: QC
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.869	3.005	3.085	3.041	3.018	3.052	3.030	2.999	3.200
Stddev	.000	.001	.050	.006	.005	.004	.005	.003	.002
%RSD	.0022	.0421	1.610	.2143	.1685	.1465	.1671	.1100	.0566
#1	2.869	3.006	3.120	3.036	3.014	3.049	3.026	2.996	3.198
#2	2.869	3.004	3.050	3.045	3.021	3.055	3.033	3.001	3.201

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4999.7	2528.0	105240.	16181.
Stddev	.4	1.5	200.	41.
%RSD	.00753	.06059	.18991	.25257
#1	5000.0	2526.9	105380.	16152.
#2	4999.4	2529.1	105100.	16210.

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Sample Name: ICB Acquired: 8/18/2014 10:02:31 Type: QC
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0086	.0005	.0010	.0037	-0.0000	.0000	.0002	-0.0004
Stddev	.0001	.0012	.0005	.0001	.0002	.0001	.0000	.0003	.0018
%RSD	25.38	14.20	90.05	11.85	5.468	290.1	54.80	178.0	417.6
#1	.0003	.0094	.0008	.0011	.0039	.0000	.0000	.0004	.0008
#2	.0002	.0077	.0002	.0009	.0036	-0.0001	.0000	-0.0000	-0.0017

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0001	.0000	-0.0001	-0.0005	.0011	-0.0043	.0013	-0.0047	.0001
Stddev	.0002	.0002	.0000	.0005	.0006	.0009	.0005	.0025	.0000
%RSD	345.5	746.2	17.21	100.2	60.37	21.14	41.13	53.69	20.60
#1	-0.0002	-0.0001	-0.0001	-0.0002	.0006	-0.0049	.0016	-0.0029	.0000
#2	.0001	.0002	-0.0001	-0.0009	.0015	-0.0036	.0009	-0.0065	.0001

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0087	.0056	-0.0000	-0.0002	.0006	.0016	.0020	-0.0001	.0006
Stddev	.0014	.0007	.0001	.0003	.0008	.0017	.0010	.0002	.0001
%RSD	16.05	12.62	825.9	174.5	125.3	109.7	49.51	114.3	13.07
#1	.0097	.0061	.0001	.0000	.0001	.0004	.0027	-0.0003	.0007
#2	.0077	.0051	-0.0001	-0.0003	.0012	.0028	.0013	-0.0000	.0005

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

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Sample Name: ICB Acquired: 8/18/2014 10:02:31 Type: QC
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0000	.0006	.0000	.0003	.0013	.0001	F .0162	-0.0000	.0016
Stddev	.0003	.0007	.0000	.0002	.0009	.0000	.0011	.0001	.0001
%RSD	10590.	121.9	90.44	63.64	69.55	4.539	6.611	1805.	4.253
#1	.0002	.0001	.0001	.0005	.0006	.0001	.0169	.0000	.0015
#2	-0.0002	.0010	.0000	.0002	.0019	.0001	.0154	-0.0000	.0016

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Fail Chk Pass Chk Pass
High Limit
Low Limit

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5004.8	2594.0	107750.	16536.
Stddev	11.3	5.2	253.	51.
%RSD	.22547	.20136	.23518	.30766
#1	4996.8	2590.3	107570.	16500.
#2	5012.7	2597.7	107930.	16572.

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Sample Name: CCV Acquired: 8/18/2014 10:08:11 Type: QC
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2450	9.803	1.964	1.993	1.941	1.950	1.968	1.943	9.785
Stddev	.0015	.006	.001	.005	.002	.001	.000	.002	.005
%RSD	.5977	.0625	.0485	.2455	.0960	.0557	.0069	.1193	.0465
#1	.2461	9.808	1.965	1.997	1.940	1.951	1.968	1.941	9.789
#2	.2440	9.799	1.963	1.990	1.943	1.949	1.968	1.944	9.782

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass None Chk Pass
Value
Range

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.943	1.976	1.918	1.928	9.970	9.639	1.953	9.655	1.965
Stddev	.001	.000	.006	.001	.006	.016	.000	.020	.006
%RSD	.0669	.0172	.3267	.0363	.0620	.1694	.0078	.2098	.3132
#1	1.942	1.976	1.923	1.928	9.966	9.651	1.952	9.641	1.970
#2	1.944	1.975	1.914	1.927	9.975	9.628	1.953	9.669	1.961

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass None Chk Pass Chk Pass
Value
Range

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.962	9.768	1.991	1.962	1.907	1.968	1.950	1.943	1.950
Stddev	.005	.009	.001	.001	.002	.007	.001	.003	.001
%RSD	.2765	.0927	.0244	.0408	.0885	.3748	.0669	.1405	.0328
#1	1.958	9.774	1.992	1.961	1.908	1.974	1.951	1.945	1.950
#2	1.966	9.762	1.991	1.962	1.905	1.963	1.949	1.941	1.951

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

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Sample Name: CCV Acquired: 8/18/2014 10:08:11 Type: QC
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.976	1.991	2.024	1.930	1.958	1.941	1.919	1.970	1.960
Stddev	.001	.001	.001	.005	.003	.003	.003	.001	.004
%RSD	.0665	.0334	.0450	.2524	.1616	.1608	.1750	.0317	.2106
#1	1.975	1.990	2.025	1.933	1.960	1.944	1.917	1.969	1.963
#2	1.977	1.991	2.024	1.926	1.956	1.939	1.921	1.970	1.957

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5073.2	2583.5	107940.	16514.
Stddev	2.9	3.9	535.	19.
%RSD	.05742	.15037	.49560	.11368
#1	5075.3	2586.3	107570.	16501.
#2	5071.2	2580.8	108320.	16527.

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Sample Name: CCB Acquired: 8/18/2014 10:13:36 Type: QC
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	.0102	-.0003	.0007	.0039	.0001	.0000	-.0000	-.0019
Stddev	.0001	.0047	.0002	.0001	.0007	.0001	.0000	.0006	.0015
%RSD	29.34	46.43	76.59	15.94	19.14	201.0	90.23	17880.	82.14
#1	.0006	.0136	-.0005	.0006	.0044	.0002	.0000	-.0004	-.0030
#2	.0004	.0069	-.0001	.0007	.0034	-.0000	.0000	.0004	-.0008

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0004	-.0003	-.0000	.0005	.0071	.0012	.0129	.0001
Stddev	.0000	.0001	.0002	.0000	.0009	.0097	.0001	.0027	.0000
%RSD	23.40	36.42	61.17	21.06	171.6	136.9	9.323	21.16	8.598
#1	.0002	.0003	-.0002	-.0000	.0011	.0140	.0012	.0148	.0001
#2	.0002	.0005	-.0004	-.0000	-.0001	.0002	.0013	.0110	.0001

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0063	.0027	.0001	.0001	.0011	-.0001	.0010	.0003	.0005
Stddev	.0011	.0014	.0002	.0004	.0002	.0022	.0015	.0002	.0003
%RSD	17.21	52.31	150.8	308.3	18.76	344.1	160.1	70.90	71.26
#1	.0070	.0037	.0003	.0004	.0012	.0015	.0020	.0002	.0007
#2	.0055	.0017	-.0000	-.0001	.0009	-.0016	-.0001	.0005	.0002

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

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Sample Name: CCB Acquired: 8/18/2014 10:13:36 Type: QC
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010	.0010	.0001	.0001	.0002	.0003	F .0124	.0002	.0015
Stddev	.0004	.0002	.0000	.0001	.0004	.0001	.0013	.0000	.0001
%RSD	36.72	17.55	54.64	76.17	151.1	34.08	10.19	24.39	5.694
#1	.0007	.0008	.0001	.0001	.0005	.0003	.0133	.0001	.0015
#2	.0012	.0011	.0001	.0002	.0000	.0004	.0115	.0002	.0014

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Fail Chk Pass Chk Pass
High Limit
Low Limit

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4986.1	2578.3	107380.	16296.
Stddev	4.1	1.4	173.	43.
%RSD	.08290	.05386	.16067	.26110
#1	4983.2	2577.3	107250.	16266.
#2	4989.1	2579.3	107500.	16326.

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Sample Name: CRI Acquired: 8/18/2014 10:19:17 Type: QC
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0052	.2087	.0046	.0496	.1010	.0496	.0040	.0490	4.976
Stddev	.0001	.0015	.0001	.0004	.0001	.0002	.0000	.0007	.015
%RSD	2.254	.7255	1.735	.8238	.1406	.3362	.4115	1.332	.3034
#1	.0053	.2077	.0046	.0499	.1011	.0497	.0040	.0485	4.986
#2	.0052	.2098	.0045	.0493	.1009	.0495	.0040	.0495	4.965

Check ? Chk Pass Chk Pass Chk Pass None Chk Pass Chk Pass Chk Pass None Chk Pass
Value
Range

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0039	.0519	.0103	.0239	.1038	4.954	.4890	4.991	.0157
Stddev	.0001	.0001	.0002	.0004	.0000	.011	.0014	.014	.0001
%RSD	3.799	.1131	1.691	1.527	.0255	.2201	.2889	.2735	.8187
#1	.0040	.0519	.0104	.0242	.1038	4.946	.4900	5.001	.0158
#2	.0038	.0519	.0102	.0236	.1038	4.962	.4880	4.982	.0156

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass None Chk Pass Chk Pass
Value
Range

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1046	4.898	.0424	.0044	.0493	.0512	.0525	.0062	.0114
Stddev	.0003	.003	.0001	.0011	.0011	.0013	.0008	.0004	.0005
%RSD	.2897	.0515	.2292	25.04	2.235	2.502	1.512	6.239	4.460
#1	.1044	4.897	.0424	.0036	.0485	.0521	.0531	.0060	.0110
#2	.1048	4.900	.0423	.0052	.0501	.0503	.0519	.0065	.0117

Check ? Chk Pass Chk Pass Chk Pass Chk Pass None None None Chk Pass Chk Pass
Value
Range

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Sample Name: CRI Acquired: 8/18/2014 10:19:17 Type: QC
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1086	.0995	.0102	.0497	.0040	.0103	.1085	.0207	.0542
Stddev	.0009	.0004	.0000	.0003	.0010	.0002	.0005	.0002	.0002
%RSD	.8165	.4465	.4831	.6961	24.24	1.522	.4494	1.193	.3359
#1	.1092	.0998	.0102	.0499	.0047	.0102	.1082	.0205	.0544
#2	.1080	.0992	.0103	.0494	.0033	.0104	.1089	.0209	.0541

Check ? None Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass None Chk Pass None
Value
Range

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4996.8	2572.5	106920.	16499.
Stddev	5.4	1.0	150.	37.
%RSD	.10871	.03814	.14032	.22154
#1	4993.0	2573.2	106810.	16473.
#2	5000.7	2571.8	107030.	16524.

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Sample Name: ICSEA Acquired: 8/18/2014 10:24:53 Type: QC
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	521.5	.0007	-.0009	.0020	.0005	-.0000	.0023	458.8
Stddev	.0002	4.3	.0020	.0004	.0003	.0001	.0000	.0009	.6
%RSD	137.7	.8169	297.3	48.48	16.64	15.51	176.4	39.83	.1264
#1	.0002	518.5	-.0007	-.0012	.0018	.0004	-.0000	.0017	459.2
#2	.0000	524.5	.0021	-.0006	.0023	.0005	.0000	.0030	458.4

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0000	.0009	.0002	-.0002	183.8	-.1605	.0076	524.2	-.0001
Stddev	.0000	.0001	.0002	.0001	.2	.0002	.0006	.5	.0000
%RSD	94.91	7.441	142.8	66.78	.0887	.1333	7.924	.0924	.7169
#1	-.0000	.0009	-.0000	-.0003	183.9	-.1607	.0072	524.6	-.0001
#2	-.0001	.0010	.0003	-.0001	183.7	-.1604	.0080	523.9	-.0001

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass None Chk Pass Chk Pass
High Limit
Low Limit

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0024	.0862	.0000	.0003	-.0002	-.0012	.0492	.0010	-.0010
Stddev	.0004	.0022	.0003	.0003	.0005	.0015	.0009	.0008	.0004
%RSD	15.70	2.516	4619.	89.33	252.9	123.7	1.910	80.81	40.40
#1	.0021	.0846	.0002	.0001	.0002	-.0002	.0499	.0004	-.0007
#2	.0027	.0877	-.0002	.0005	-.0006	-.0023	.0485	.0016	-.0013

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

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Sample Name: ICSEA Acquired: 8/18/2014 10:24:53 Type: QC
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0240	.0028	.0013	.0004	-.0007	.0010	.0225	.0001	.0017
Stddev	.0010	.0006	.0000	.0000	.0010	.0002	.0012	.0000	.0000
%RSD	3.979	20.23	1.414	9.288	132.5	14.48	5.247	.0801	1.291
#1	.0234	.0032	.0013	.0004	-.0014	.0012	.0233	.0001	.0017
#2	.0247	.0024	.0013	.0004	-.0000	.0009	.0216	.0001	.0017

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4738.7	2308.3	97801.	15466.
Stddev	5.1	2.8	319.	5.
%RSD	.10784	.12180	.32707	.03186
#1	4742.3	2310.3	97826.	15470.
#2	4735.1	2306.3	97375.	15463.

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Sample Name: ICSAB Acquired: 8/18/2014 10:30:36 Type: QC
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.031	520.9	2.020	4972	1.061	4799	4786	5293	457.9
Stddev	.001	3.9	.004	.0017	.000	.0008	.0010	.0005	8.2
%RSD	.1043	.7500	.1837	.3423	.0230	.1578	.2102	.1021	1.800
#1	1.032	523.7	2.023	4960	1.061	4804	4779	5290	452.0
#2	1.030	518.2	2.017	4984	1.061	4794	4793	5297	463.7

Check ? High Limit Low Limit
Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.044	4621	4605	5236	180.9	-1452	5059	521.2	4795
Stddev	.002	.0005	.0012	.0016	.3	.0239	.0010	1.9	.0003
%RSD	.2121	.1114	.2702	.3041	.1654	16.47	.1915	.3718	.0538
#1	1.046	4617	4596	5247	180.7	-1621	5066	519.9	4793
#2	1.043	4624	4614	5225	181.1	-1283	5053	522.6	4797

Check ? High Limit Low Limit
Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9625	0848	9013	9368	5504	4993	5779	2101	2021
Stddev	.0023	.0001	.0002	.0019	.0014	.0023	.0009	.004	.001
%RSD	.2395	.1594	.0232	.1994	.2614	.4615	.1546	.2082	.0654
#1	9609	0849	9014	9381	5514	5010	5785	2105	2022
#2	9642	0847	9011	9355	5494	4977	5773	2098	2020

Check ? High Limit Low Limit
Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

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Sample Name: ICSAB Acquired: 8/18/2014 10:30:36 Type: QC
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.109	1.006	9871	4777	1.947	4771	1.951	9027	3534
Stddev	.001	.001	.0009	.0005	.002	.0002	.003	.0002	.0073
%RSD	.0400	.1041	.0949	.0989	.1079	.0340	.1330	.0232	2.057
#1	2.109	1.006	9878	4774	1.949	4773	1.949	9028	3483
#2	2.108	1.005	9865	4781	1.946	4770	1.953	9025	3586

Check ? High Limit Low Limit
Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4750.3	2313.2	97400.	15696.
Stddev	6.2	4.9	115.	54.
%RSD	.13123	.21345	.11776	.34396
#1	4745.9	2309.7	97481.	15734.
#2	4754.7	2316.7	97319.	15657.

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Sample Name: MP23493-B1 Acquired: 8/18/2014 10:36:12 Type: Unk
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1788	2054	5036	-0004	1022	1974	5091	0004	25.32
Stddev	.0003	.004	.0008	.0006	.002	.003	.0002	.0004	.01
%RSD	.1918	.1901	.1527	142.8	.1822	.1443	.0411	101.1	.0248
#1	1785	2057	5030	-0008	1021	1976	5090	0007	25.33
#2	1790	2051	5041	0000	1024	1972	5092	0001	25.32

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5165	4928	4984	4764	2062	25.24	0006	25.37	5115
Stddev	.0016	.0000	.0008	.0006	.001	.00	.0000	.10	.0001
%RSD	.3152	.0034	.1557	.1225	.0245	.0076	2.251	.3877	.0225
#1	5154	4928	4990	4768	2062	25.24	0007	25.30	5116
#2	5177	4929	4979	4760	2061	25.24	0006	25.44	5114

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4943	26.00	5019	1.012	-0004	0021	0054	5034	5003
Stddev	.0009	.04	.0009	.001	.0002	.0023	.0012	.0001	.0002
%RSD	.1916	.1634	.1792	.0911	45.20	108.1	22.74	.0291	.0480
#1	4937	26.03	5013	1.013	-0005	0038	0063	5032	5005
#2	4950	25.97	5026	1.011	-0002	0005	0045	5035	5002

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	0684	1.027	5125	4985	5093	5016	0230	5078	1143
Stddev	.0002	.002	.0008	.0001	.0004	.0000	.0028	.0011	.0161
%RSD	.3612	.2022	.1623	.0267	.0728	.0035	12.30	.2208	14.13
#1	0686	1.025	5131	4985	5090	5017	0250	5070	1257
#2	0682	1.028	5120	4986	5096	5016	0210	5086	1029

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Sample Name: MP23493-B1 Acquired: 8/18/2014 10:36:12 Type: Unk
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4973.9	2520.9	106090.	16392.
Stddev	9.2	6.0	21.	31.
%RSD	.18531	.23856	.01983	.18762
#1	4980.4	2525.2	106070.	16370.
#2	4967.4	2516.7	106100.	16413.

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Sample Name: MP23493-MB1 Acquired: 8/18/2014 10:41:39 Type: Unk
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0152	-.0007	-.0004	.0034	.0002	-.0001	.0008	.0164
Stddev	.0001	.0009	.0011	.0005	.0004	.0001	.0000	.0007	.0019
%RSD	559.8	5.696	171.2	124.0	11.68	60.36	16.20	89.01	11.53
#1	-.0000	.0158	-.0015	-.0001	.0037	.0001	-.0001	.0013	.0177
#2	.0001	.0146	.0001	-.0008	.0032	.0003	-.0001	.0003	.0150

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	-.0001	.0003	.0001	.0112	.0091	.0008	-.0061	.0004
Stddev	.0000	.0001	.0002	.0001	.0002	.0263	.0004	.0231	.0000
%RSD	24.31	92.79	75.47	84.12	2.146	288.1	48.52	380.3	6.265
#1	.0001	-.0000	.0001	.0001	.0114	.0278	.0011	-.0224	.0004
#2	.0002	-.0002	.0005	.0000	.0111	-.0095	.0005	.0102	.0005

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0022	.0206	-.0003	.0002	.0006	.0010	.0057	.0017	.0007
Stddev	.0002	.0041	.0001	.0006	.0005	.0023	.0011	.0008	.0003
%RSD	7.642	19.93	42.32	259.9	82.58	223.4	19.67	47.00	37.85
#1	.0024	.0235	-.0002	.0007	.0009	.0027	.0065	.0023	.0009
#2	.0021	.0177	-.0004	-.0002	.0002	-.0006	.0049	.0011	.0005

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0505	.0008	.0001	-.0000	-.0030	.0001	.0120	.0011	.0005
Stddev	.0007	.0007	.0000	.0004	.0000	.0002	.0002	.0002	.0001
%RSD	1.476	81.47	31.70	5602.	.5339	108.6	1.287	15.20	26.94
#1	.0510	.0013	.0000	-.0003	-.0029	.0003	.0121	.0012	.0006
#2	.0499	.0003	.0001	.0003	-.0030	.0000	.0119	.0010	.0004

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Sample Name: MP23493-MB1 Acquired: 8/18/2014 10:41:39 Type: Unk
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4902.2	2525.7	106440.	16451.
Stddev	25.9	14.6	689.	3.
%RSD	.52912	.57637	.64761	.01823

#1	4883.9	2515.4	105950.	16449.
#2	4920.6	2536.0	106920.	16453.

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Sample Name: MP23493-S1 Acquired: 8/18/2014 10:47:20 Type: Unk
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2382	2.207	.4945	-.0013	1.009	2.051	.6026	.0006	24.98
Stddev	.0004	.013	.0001	.0001	.002	.002	.0009	.0004	.10
%RSD	.1867	.5951	.0239	4.778	.1481	.1001	.1445	65.86	4063
#1	.2379	2.198	.4946	-.0012	1.008	2.053	.6019	.0003	24.90
#2	.2385	2.217	.4944	-.0013	1.010	2.050	.6032	.0008	25.05

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5113	.6313	.4952	.6104	2.026	25.13	.0008	24.98	.5083
Stddev	.0001	.0003	.0010	.0001	.009	.03	.0002	.07	.0002
%RSD	.0117	.0405	.2077	.0176	.4398	.1138	28.58	.2792	.0341
#1	.5113	.6311	.4945	.6105	2.020	25.15	.0009	24.93	.5084
#2	.5114	.6315	.4959	.6103	2.033	25.11	.0006	25.03	.5082

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4940	25.86	.5881	1.104	-.0003	.0022	.0597	.6744	.4805
Stddev	.0009	.01	.0002	.001	.0005	.0019	.0003	.0018	.0007
%RSD	.1748	.0272	.0268	.0616	208.8	83.41	.5388	.2629	.1434
#1	.4934	25.85	.5883	1.103	-.0006	.0036	.0595	.6757	.4800
#2	.4946	25.86	.5880	1.104	.0001	.0009	.0600	.6732	.4809

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0560	1.022	.5107	.4969	.6639	.4988	.0236	.5032	.0274
Stddev	.0001	.001	.0004	.0002	.0037	.0008	.0002	.0012	.0018
%RSD	.2280	.0441	.0713	.0460	.5605	.1588	.6763	.2296	6.453
#1	.0559	1.023	.5109	.4970	.6613	.4982	.0237	.5024	.0286
#2	.0561	1.022	.5104	.4967	.6665	.4993	.0235	.5040	.0261

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Sample Name: MP23493-S1 Acquired: 8/18/2014 10:47:20 Type: Unk
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4971.5	2514.8	105850.	16495.
Stddev	5.8	1.8	95.	96.
%RSD	.11689	.07126	.08985	.58043

#1	4975.6	2516.0	105920.	16563.
#2	4967.4	2513.5	105790.	16427.

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Sample Name: MP23493-S2 Acquired: 8/18/2014 10:52:48 Type: Unk
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2379	2.191	.4923	-0.020	1.008	2.034	.5979	.0008	24.90
Stddev	.0010	.002	.0011	.0000	.002	.004	.0008	.0001	.01
%RSD	.4260	.1018	.2175	1.502	.1491	.2135	.1416	16.39	.0584
#1	.2372	2.190	.4916	-.0019	1.007	2.031	.5973	.0007	24.89
#2	.2386	2.193	.4931	-.0020	1.009	2.037	.5985	.0009	24.91

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5138	.6301	.4949	.6076	2.003	25.00	.0012	24.85	.5058
Stddev	.0007	.0013	.0026	.0003	.010	.06	.0000	.07	.0025
%RSD	.1430	.2072	.5236	.0549	.4857	.2342	1.380	.2882	.4910
#1	.5133	.6292	.4931	.6078	1.996	24.95	.0012	24.80	.5040
#2	.5144	.6310	.4968	.6073	2.010	25.04	.0012	24.90	.5075

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4912	25.66	.5859	1.099	.0001	-0.0006	.0598	.6773	.4799
Stddev	.0010	.03	.0013	.002	.0001	.0012	.0006	.0002	.0003
%RSD	.1977	.1274	.2149	.1776	104.4	187.5	.9713	.0317	.0725
#1	.4905	25.64	.5850	1.098	.0002	-.0015	.0602	.6772	.4801
#2	.4918	25.69	.5868	1.101	.0000	.0002	.0594	.6775	.4796

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0554	1.014	.5050	.4951	.6639	.4970	.0197	.5027	.0101
Stddev	.0003	.000	.0016	.0020	.0042	.0024	.0001	.0023	.0003
%RSD	.6139	.0319	.3117	.3991	.6332	.4828	.6884	.4504	2.716
#1	.0557	1.013	.5039	.4937	.6610	.4953	.0196	.5011	.0103
#2	.0552	1.014	.5061	.4965	.6669	.4987	.0198	.5043	.0099

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Sample Name: MP23493-S2 Acquired: 8/18/2014 10:52:48 Type: Unk
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4937.7	2498.9	105100.	16235.
Stddev	.8	1.8	446.	19.
%RSD	.01592	.07066	.42477	.11951
#1	4938.3	2497.7	105420.	16222.
#2	4937.1	2500.2	104790.	16249.

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Sample Name: MC32825-4 Acquired: 8/18/2014 10:58:16 Type: Unk
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0631	.1923	-0.007	-0.011	.0038	.0803	.0991	.0010	.0181
Stddev	.0003	.0038	.0000	.0000	.0004	.0001	.0004	.0001	.0002
%RSD	.5507	1.987	5.386	1.701	10.55	.1648	.4443	14.97	1.009
#1	.0628	.1896	-.0007	-.0010	.0041	.0804	.0994	.0009	.0182
#2	.0633	.1950	-.0007	-.0011	.0035	.0802	.0988	.0011	.0180

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.1488	.0000	.1330	.0086	-0.1111	.0009	.0056	.0002
Stddev	.0000	.0021	.0000	.0006	.0002	.0015	.0001	.0075	.0000
%RSD	18.66	1.414	110.2	.4660	2.547	13.47	6.268	133.4	7.002
#1	.0002	.1473	.0000	.1326	.0085	-.0101	.0009	.0003	.0003
#2	.0002	.1503	.0001	.1334	.0088	-.0122	.0009	.0109	.0002

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0020	.0321	.0949	.1018	.0004	-0.0008	.0596	.1794	.0011
Stddev	.0003	.0016	.0014	.0012	.0001	.0021	.0004	.0028	.0004
%RSD	13.78	4.923	1.429	1.194	17.69	253.2	.5938	1.584	31.83
#1	.0022	.0310	.0939	.1009	.0005	.0006	.0594	.1774	.0014
#2	.0018	.0332	.0958	.1027	.0004	-.0023	.0599	.1814	.0009

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0430	.0016	.0000	-0.0000	.1558	.0002	.0153	.0028	.0003
Stddev	.0008	.0001	.0000	.0000	.0013	.0001	.0004	.0001	.0000
%RSD	1.902	4.165	22.28	89.40	.8565	39.56	2.895	4.317	7.499
#1	.0424	.0017	.0001	-.0000	.1548	.0002	.0156	.0027	.0003
#2	.0436	.0016	.0000	-.0000	.1567	.0003	.0150	.0029	.0004

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Sample Name: MC32825-4 Acquired: 8/18/2014 10:58:16 Type: Unk
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4947.8	2544.5	106870.	16600.
Stddev	31.5	19.0	53.	14.
%RSD	.63757	.74587	.04940	.08137
#1	4970.1	2557.9	106840.	16609.
#2	4925.5	2531.1	106910.	16590.

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Sample Name: MP23493-SD1 Acquired: 8/18/2014 11:03:55 Type: Unk
Method: Accutest2(v113) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0649	.2195	-.0015	-.0031	.0072	.0827	.1009	-.0007	.0563
Stddev	.0021	.0226	.0022	.0023	.0011	.0003	.0001	.0043	.0109
%RSD	3.294	10.31	140.6	74.57	15.50	.3864	.0662	611.5	19.35
#1	.0664	.2035	-.0000	-.0015	.0080	.0829	.1009	-.0037	.0486
#2	.0634	.2355	-.0031	-.0048	.0064	.0825	.1008	.0023	.0640

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.1505	-.0005	.1359	.0146	.0304	.0046	.0363	.0005
Stddev	.0002	.0005	.0000	.0009	.0082	.0153	.0002	.0602	.0001
%RSD	54.42	.2996	9.034	.6827	56.02	50.48	3.809	165.9	24.45
#1	.0004	.1502	-.0005	.1366	.0203	.0195	.0045	-.0063	.0004
#2	.0002	.1508	-.0006	.1352	.0088	.0412	.0047	.0789	.0005

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0023	.0567	.0984	.1042	.0008	.0053	.0660	.1866	.0047
Stddev	.0004	.0020	.0003	.0019	.0018	.0164	.0066	.0011	.0001
%RSD	16.08	3.544	.3337	1.868	227.7	312.7	9.961	.5860	1.863
#1	.0026	.0581	.0987	.1056	.0021	.0169	.0707	.1858	.0048
#2	.0020	.0553	.0982	.1028	-.0005	-.0064	.0614	.1873	.0047

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0534	.0065	-.0000	-.0004	.1527	.0001	.0203	.0062	.0011
Stddev	.0022	.0017	.0001	.0002	.0009	.0020	.0049	.0003	.0006
%RSD	4.106	26.03	241.2	46.93	.5882	2794.	24.42	5.372	53.28
#1	.0550	.0076	.0000	-.0006	.1534	-.0014	.0238	.0064	.0015
#2	.0519	.0053	-.0001	-.0003	.1521	.0015	.0168	.0059	.0007

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Sample Name: MP23493-SD1 Acquired: 8/18/2014 11:03:55 Type: Unk
Method: Accutest2(v113) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4955.2	2559.2	106550.	16332.
Stddev	2.0	1.3	355.	45.
%RSD	.03946	.05111	.33281	.27856
#1	4953.8	2558.3	106800.	16300.
#2	4956.6	2560.1	106300.	16364.

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Sample Name: MP23493-B2CONF Acquired: 8/18/2014 11:09:35 Type: Unk
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1790	2.046	.5089	-.0012	1.033	1.986	.5123	.0007	25.40
Stddev	.0006	.029	.0004	.0003	.002	.024	.0069	.0001	.32
%RSD	.3283	1.441	.0789	25.78	.1615	1.198	1.350	8.413	1.252
#1	.1794	2.067	.5092	-.0010	1.032	2.003	.5172	.0007	25.62
#2	.1786	2.025	.5086	-.0014	1.034	1.970	.5074	.0007	25.17

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5197	.4960	.5018	.4788	2.054	25.43	.0005	25.39	.5143
Stddev	.0005	.0010	.0026	.0042	.028	.33	.0003	.32	.0026
%RSD	.0883	.1944	.5104	.8759	1.368	1.294	60.02	1.257	.5107
#1	.5200	.4967	.5035	.4818	2.074	25.66	.0007	25.61	.5161
#2	.5194	.4953	.4998	.4759	2.034	25.19	.0003	25.16	.5124

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4962	26.05	.5031	1.018	.0004	-.0004	.0059	.5087	.5080
Stddev	.0007	.31	.0005	.000	.0002	.0014	.0008	.0004	.0020
%RSD	.1311	1.187	.1093	.0006	49.92	347.5	13.06	.0870	.3892
#1	.4957	26.27	.5035	1.018	.0005	-.0014	.0054	.5090	.5074
#2	.4967	25.84	.5027	1.018	.0002	.0006	.0065	.5084	.5046

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0646	1.030	.5132	.5021	.5159	.5030	.0126	.5114	.0060
Stddev	.0001	.001	.0066	.0027	.0008	.0032	.0006	.0005	.0003
%RSD	.1286	.0986	1.290	.5447	.1464	.6309	5.055	.0892	5.406
#1	.0646	1.031	.5179	.5041	.5153	.5053	.0130	.5117	.0062
#2	.0647	1.029	.5085	.5002	.5164	.5008	.0121	.5111	.0057

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Sample Name: MP23493-B2CONF Acquired: 8/18/2014 11:09:35 Type: Unk
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4969.7	2513.2	105630.	16341.
Stddev	6.6	2.4	293.	207.
%RSD	.13203	.09425	.27772	1.2692
#1	4965.1	2511.5	105420.	16194.
#2	4974.4	2514.9	105830.	16487.

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Sample Name: CCV Acquired: 8/18/2014 11:15:02 Type: QC
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2505	9.849	1.982	1.993	1.972	1.972	1.960	1.946	9.880
Stddev	.0004	.023	.001	.005	.002	.002	.002	.002	.015
%RSD	.1725	.2372	.0570	.2319	.0987	.0758	.1228	.1069	.1497
#1	.2502	9.833	1.981	1.990	1.971	1.971	1.959	1.944	9.890
#2	.2508	9.866	1.982	1.997	1.973	1.974	1.962	1.947	9.869

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value Range

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.982	1.983	1.968	1.941	9.937	9.814	1.955	9.651	1.992
Stddev	.001	.003	.002	.002	.011	.009	.004	.074	.002
%RSD	.0492	.1662	.1151	.0837	.1083	.0969	.1814	.7623	.0777
#1	1.983	1.980	1.967	1.940	9.944	9.808	1.953	9.703	1.991
#2	1.982	1.985	1.970	1.942	9.929	9.821	1.958	9.599	1.993

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value Range

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.971	9.810	1.980	1.962	1.937	1.993	1.986	1.962	1.970
Stddev	.008	.007	.002	.000	.000	.002	.005	.004	.000
%RSD	.4206	.0741	.1210	.0159	.0187	.0764	.2569	.1885	.0158
#1	1.965	9.805	1.978	1.961	1.937	1.994	1.983	1.965	1.970
#2	1.977	9.815	1.982	1.962	1.938	1.992	1.990	1.959	1.970

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value Range

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Sample Name: CCV Acquired: 8/18/2014 11:15:02 Type: QC
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.979	1.976	2.009	1.969	1.967	1.959	1.931	1.986	1.948
Stddev	.003	.002	.001	.002	.002	.002	.009	.004	.008
%RSD	.1514	.1145	.0554	.0779	.1245	.0906	.4549	.1753	.3940
#1	1.977	1.975	2.009	1.968	1.965	1.958	1.924	1.984	1.943
#2	1.981	1.978	2.010	1.970	1.969	1.960	1.937	1.989	1.954

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value Range

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5041.3	2560.5	105870.	16383.
Stddev	4.1	1.5	72.	16.
%RSD	.08039	.05727	.06816	.09835
#1	5038.5	2559.5	105920.	16395.
#2	5044.2	2561.6	105820.	16372.

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Sample Name: CCB Acquired: 8/18/2014 11:20:27 Type: QC
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0097	.0007	.0007	.0032	.0001	-.0000	.0006	-.0015
Stddev	.0002	.0001	.0003	.0001	.0001	.0001	.0000	.0002	.0023
%RSD	62.35	1.486	39.83	11.54	1.779	94.83	100.5	37.07	149.3
#1	.0002	.0098	.0005	.0008	.0032	.0000	-.0001	.0005	-.0032
#2	.0005	.0096	.0008	.0007	.0033	.0001	-.0000	.0008	.0001

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit Low Limit

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0004	-.0003	-.0002	.0017	-.0150	.0013	-.0097	.0000
Stddev	.0000	.0001	.0001	.0001	.0001	.0043	.0001	.0157	.0000
%RSD	32.40	14.28	33.54	64.40	5.991	29.04	8.846	161.7	51.85
#1	.0001	.0005	-.0002	-.0001	.0016	-.0180	.0012	.0014	.0000
#2	.0002	.0004	-.0003	-.0003	.0018	-.0119	.0013	-.0208	.0001

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit Low Limit

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0052	.0057	.0000	.0003	.0003	.0026	-.0005	.0006	-.0005
Stddev	.0008	.0040	.0001	.0001	.0002	.0001	.0005	.0001	.0008
%RSD	14.92	70.04	520.3	34.29	70.06	5.402	94.45	25.49	148.5
#1	.0057	.0085	-.0000	.0002	.0004	.0025	-.0002	.0005	-.0011
#2	.0046	.0029	.0001	.0004	.0002	.0027	-.0008	.0007	.0000

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit Low Limit

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Sample Name: CCB Acquired: 8/18/2014 11:20:27 Type: QC
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0023	.0009	.0001	.0002	.0011	.0002	.0094	.0001	.0012
Stddev	.0003	.0002	.0000	.0001	.0010	.0001	.0009	.0001	.0000
%RSD	10.85	24.95	27.20	63.42	91.59	72.47	10.01	83.30	.1673
#1	.0025	.0011	.0001	.0001	.0018	.0001	.0100	.0001	.0012
#2	.0021	.0008	.0001	.0003	.0004	.0003	.0087	.0002	.0012

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit Low Limit

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5002.1	2582.2	107580.	16576.
Stddev	13.5	5.7	24.	65.
%RSD	.26993	.22194	.02205	.39444
#1	5011.7	2586.3	107580.	16623.
#2	4992.6	2578.2	107550.	16530.

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Sample Name: MP23485-LC1CONF Acquired: 8/18/2014 11:26:09 Type: Unk
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3536	81.75	1.313	.0005	1.019	2.440	.5606	-.0133	59.47
Stddev	.0009	.08	.002	.0006	.004	.004	.0007	.0006	.06
%RSD	.2583	.0943	.1208	.1167	.3717	.1782	.1233	4.608	.0962
#1	.3543	81.81	1.312	.0009	1.016	2.443	.5611	-.0138	59.51
#2	.3530	81.70	1.314	.0001	1.022	2.437	.5601	-.0129	59.43
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9364	1.036	1.045	.7779	164.0	25.57	.0749	31.33	4.076
Stddev	.0017	.003	.001	.0014	.1	.04	.0001	.05	.007
%RSD	.1860	.2930	.0593	.1864	.0901	.1627	.1041	.1731	.1729
#1	.9352	1.034	1.045	.7769	164.1	25.60	.0749	31.29	4.081
#2	.9377	1.039	1.046	.7789	163.9	25.54	.0750	31.37	4.071
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3978	2.385	.5835	.9981	.0029	-.0055	1.348	.6416	1.733
Stddev	.0015	.007	.0006	.0017	.0000	.0025	.001	.0018	.006
%RSD	.3854	.2821	.1007	.1709	.2801	45.19	.0404	.2832	.3250
#1	.3967	2.390	.5831	.9969	.0029	-.0072	1.349	.6403	1.729
#2	.3989	2.380	.5839	.9993	.0029	-.0037	1.348	.6429	1.737
Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 18.45	1.066	.5817	3.662	1.266	.7025	.0240	2.106	.0591
Stddev	.04	.002	.0008	.002	.004	.0012	.0004	.005	.0000
%RSD	.1899	.2195	.1394	.0441	.2767	.1675	1.754	.2549	.0120
#1	18.43	1.065	.5823	3.663	1.263	.7034	.0243	2.102	.0591
#2	18.48	1.068	.5811	3.661	1.268	.7017	.0237	2.110	.0591

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Sample Name: MP23485-LC1CONF Acquired: 8/18/2014 11:26:09 Type: Unk
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5141.1	2644.9	110780.	17385.
Stddev	2.1	2.5	134.	8.
%RSD	.04012	.09513	.12131	.04372
#1	5142.5	2646.7	110690.	17380.
#2	5139.6	2643.1	110880.	17391.

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Sample Name: MP23483-LC1CONF Acquired: 8/18/2014 11:31:41 Type: Unk
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3466	78.07	1.299	-.0010	.9727	1.715	.5604	-.0122	59.89
Stddev	.0031	.12	.005	.0008	.0084	.001	.0009	.0011	.30
%RSD	.9050	.1502	.4247	88.34	.8658	.0510	.1561	8.602	.4936
#1	.3488	77.99	1.295	-.0004	.9667	1.714	.5597	-.0115	59.68
#2	.3444	78.15	1.303	-.0015	.9786	1.716	.5610	-.0130	60.09
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9428	1.038	1.033	.7717	163.2	24.83	.0730	31.02	4.009
Stddev	.0058	.004	.012	.0068	.4	.04	.0002	.07	.051
%RSD	.6150	.3855	1.129	.8800	.2637	.1626	.2840	.2406	1.283
#1	.9387	1.035	1.041	.7765	162.8	24.90	.0732	30.96	4.046
#2	.9469	1.041	1.024	.7669	163.5	24.96	.0729	31.07	3.973
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4017	2.385	.5807	.9870	.0048	-.0037	1.414	.7287	1.783
Stddev	.0031	.004	.0025	.0035	.0010	.0023	.012	.0042	.012
%RSD	.7687	.1775	.4224	.3533	21.48	62.60	.8540	.5777	.6546
#1	.3995	2.382	.5789	.9845	.0041	-.0053	1.406	.7257	1.775
#2	.4039	2.388	.5824	.9894	.0056	-.0020	1.423	.7317	1.791
Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	16.42	1.056	.5867	3.509	1.261	.6968	.0210	2.089	.0590
Stddev	.08	.005	.0000	.034	.006	.0069	.0008	.010	.0005
%RSD	.4684	.4811	.0069	.9669	.4652	.9965	3.693	.4935	.8726
#1	16.37	1.052	.5867	3.533	1.256	.7017	.0205	2.081	.0594
#2	16.48	1.060	.5868	3.485	1.265	.6919	.0216	2.096	.0587

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Sample Name: MP23483-LC1CONF Acquired: 8/18/2014 11:31:41 Type: Unk
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5145.0	2647.0	110740.	17013.
Stddev	25.3	14.6	626.	116.
%RSD	.49082	.55062	.56512	.68401
#1	5162.8	2657.3	110300.	17096.
#2	5127.1	2636.7	111190.	16931.

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Sample Name: MC32842-1 Acquired: 8/18/2014 11:37:12 Type: Unk
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.000	.3241	.0017	-0.006	.0562	8.045	-0.001	-0.015	15.13
Stddev	.0002	.0108	.0003	.0001	.0001	.012	.0000	.0005	.00
%RSD	540.1	3.346	18.53	17.16	.1315	.1514	16.00	31.26	.0277
#1	-0.001	.3318	.0015	-0.006	.0562	8.054	-0.001	-0.012	15.13
#2	.0001	.3165	.0019	-0.005	.0563	8.037	-0.001	-0.019	15.12
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0004	.0004	.0007	.4858	41.69	-0.0073	2.252	.0991
Stddev	.0000	.0001	.0002	.0001	.0039	.02	.0006	.027	.0003
%RSD	15.57	29.15	36.50	8.721	.8119	.0414	8.524	1.182	.2921
#1	.0003	.0004	.0003	.0006	.4830	41.70	-0.0078	2.233	.0993
#2	.0002	.0003	.0006	.0007	.4886	41.67	-0.0069	2.270	.0989
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0518	324.5	.0005	.0005	.0002	.0004	5.794	.0022	.0009
Stddev	.0003	2.4	.0001	.0001	.0000	.0035	.020	.0006	.0012
%RSD	.6492	.7326	18.31	30.23	.1050	.872.7	.3451	29.49	138.9
#1	.0521	322.8	.0006	.0004	.0002	-.0021	5.780	.0026	.0017
#2	.0516	326.1	.0004	.0006	.0002	.0029	5.808	.0017	.0000
Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.289	.0015	.1065	.0087	.0039	.0013	.0136	.0061	.0042
Stddev	.004	.0002	.0001	.0003	.0001	.0002	.0011	.0000	.0001
%RSD	.1027	13.02	.0571	3.279	2.537	19.01	8.010	.4136	3.521
#1	4.286	.0016	.1065	.0089	.0038	.0014	.0144	.0061	.0043
#2	4.292	.0014	.1066	.0085	.0040	.0011	.0129	.0062	.0041

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Sample Name: MC32842-1 Acquired: 8/18/2014 11:37:12 Type: Unk
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4949.8	2514.2	104120.	16270.
Stddev	5.6	4.7	194.	34.
%RSD	.11295	.18831	.18672	.21075
#1	4953.7	2517.6	103980.	16246.
#2	4945.8	2510.9	104260.	16294.

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Sample Name: MC32872-1 Acquired: 8/18/2014 11:43:01 Type: Unk
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.1571	.0010	-0.003	.0568	5.714	-0.001	.0001	17.38
Stddev	.0001	.0019	.0002	.0005	.0004	.035	.0000	.0012	.01
%RSD	56.38	1.191	26.13	196.8	.7043	.6192	74.82	2285.	.0705
#1	.0001	.1557	.0008	.0001	.0571	5.689	-0.000	-0.008	17.38
#2	.0002	.1584	.0011	-0.006	.0565	5.739	-0.001	.0009	17.37
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0002	.0007	.0048	.3044	40.13	-0.0083	2.529	.0503
Stddev	.0000	.0001	.0002	.0003	.0015	.13	.0003	.025	.0000
%RSD	1.144	75.90	26.37	6.253	.4847	.3198	3.957	.9738	.0304
#1	.0002	.0001	.0006	.0046	.3054	40.22	-0.0080	2.546	.0504
#2	.0002	.0002	.0008	.0050	.3033	40.04	-0.0085	2.511	.0503
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0516	331.2	.0012	-0.003	-0.003	.0010	5.363	.0054	.0019
Stddev	.0003	.9	.0003	.0003	.0000	.0006	.013	.0004	.0005
%RSD	.5960	.2605	21.61	114.1	8.480	59.33	.2427	7.186	23.55
#1	.0514	330.6	.0010	-0.001	-0.003	.0006	5.354	.0057	.0016
#2	.0518	331.8	.0014	-0.005	-0.003	.0014	5.373	.0052	.0022
Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.818	.0063	.1123	.0024	.0022	.0025	.0129	.3014	.0028
Stddev	.010	.0002	.0001	.0002	.0013	.0002	.0004	.0009	.0000
%RSD	.2502	3.456	.0885	7.406	57.39	8.550	2.715	.3136	1.215
#1	3.811	.0062	.1124	.0023	.0013	.0026	.0127	.3007	.0028
#2	3.825	.0065	.1123	.0026	.0031	.0023	.0132	.3020	.0028

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Sample Name: MC32872-1 Acquired: 8/18/2014 11:43:01 Type: Unk
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4924.2	2502.0	103290.	16008.
Stddev	1.0	1.0	79.	52.
%RSD	.02073	.04140	.07617	.32782
#1	4923.5	2502.7	103230.	15971.
#2	4924.9	2501.2	103340.	16045.

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Sample Name: MC32872-2 Acquired: 8/18/2014 11:48:49 Type: Unk
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0301	.0011	-.0012	.1906	.9024	-.0000	.0004	95.55
Stddev	.0003	.0044	.0008	.0001	.0004	.0005	.0000	.0002	.12
%RSD	95.90	14.71	72.04	9.302	.2258	.0540	19.56	43.17	.1213
#1	.0005	.0269	.0016	-.0011	.1909	.9020	-.0000	.0006	95.46
#2	.0001	.0332	.0005	-.0013	.1903	.9027	-.0001	.0003	95.63

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0010	.0013	.0016	.0456	7.705	.0530	34.55	.0140
Stddev	.0000	.0000	.0000	.0005	.0012	.024	.0006	.19	.0001
%RSD	4.467	2.361	3.255	29.51	2.705	.3158	1.077	.5531	.5208
#1	.0002	.0010	.0013	.0019	.0464	7.688	.0534	34.42	.0140
#2	.0002	.0009	.0013	.0013	.0447	7.722	.0526	34.69	.0139

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0058	132.7	.0010	.0021	.0003	.0010	11.67	.0052	.0012
Stddev	.0001	.2	.0000	.0008	.0003	.0011	.01	.0010	.0008
%RSD	1.992	.1552	4.402	37.27	117.4	105.5	.0482	18.77	71.28
#1	.0057	132.5	.0010	.0026	.0000	.0003	11.67	.0045	.0006
#2	.0059	132.8	.0010	.0015	.0005	.0018	11.68	.0059	.0017

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.085	.0029	2.792	.0010	.0001	.0009	.0210	.0128	.0021
Stddev	.003	.0007	.018	.0002	.0006	.0006	.0005	.0000	.0001
%RSD	.0532	22.82	.6579	17.60	512.3	63.58	2.444	.3290	5.411
#1	5.083	.0024	2.805	.0011	.0006	.0013	.0207	.0128	.0020
#2	5.087	.0033	2.779	.0008	-.0003	.0005	.0214	.0128	.0021

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Sample Name: MC32872-2 Acquired: 8/18/2014 11:48:49 Type: Unk
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4911.2	2470.0	103740.	15978.
Stddev	8.0	2.1	233.	15.
%RSD	.16323	.08448	.22499	.09613
#1	4916.9	2471.4	103570.	15988.
#2	4905.6	2468.5	103900.	15967.

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Sample Name: MC32923-1CONF Acquired: 8/18/2014 11:54:30 Type: Unk
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0000	.2571	.0004	-.0006	.0096	.0064	.0000	.0006	11.26
Stddev	.0000	.0090	.0000	.0002	.0004	.0000	.0000	.0004	.03
%RSD	22.52	3.512	6.645	33.14	4.011	.1596	1056.	71.51	2935
#1	-.0000	.2635	.0004	-.0005	.0093	.0064	-.0000	.0003	11.23
#2	-.0001	.2507	.0004	-.0008	.0099	.0064	.0000	.0009	11.28

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0002	.0005	.0001	.2379	3.829	.0034	1.938	.1835
Stddev	.0000	.0001	.0001	.0001	.0008	.005	.0008	.025	.0006
%RSD	.8161	57.71	15.64	111.9	.3375	.1399	24.48	1.272	.3007
#1	.0002	.0001	.0005	.0001	.2385	3.826	.0040	1.955	.1931
#2	.0002	.0003	.0006	.0000	.2373	3.833	.0028	1.921	.1939

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015	20.90	.0003	-.0003	.0005	.0011	4.448	.0024	.0014
Stddev	.0000	.06	.0002	.0004	.0011	.0014	.008	.0005	.0013
%RSD	2.552	.2654	57.92	120.3	243.1	125.6	.1740	20.05	89.69
#1	.0014	20.86	.0004	-.0000	.0012	.0001	4.442	.0021	.0023
#2	.0015	20.94	.0002	-.0006	-.0003	.0022	4.453	.0027	.0005

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.667	.0010	.1348	.0111	-.0031	.0005	.0076	.0168	.0014
Stddev	.001	.0001	.0004	.0001	.0013	.0000	.0014	.0003	.0002
%RSD	.0158	5.046	.2878	.9576	41.36	4.631	18.41	1.949	14.34
#1	4.668	.0010	.1345	.0110	-.0022	.0005	.0086	.0170	.0015
#2	4.667	.0011	.1350	.0112	-.0041	.0005	.0066	.0166	.0012

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Sample Name: MC32923-1CONF Acquired: 8/18/2014 11:54:30 Type: Unk
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5031.5	2553.1	106250.	16568.
Stddev	2.8	1.7	283.	24.
%RSD	.05576	.06744	.26608	.14413
#1	5029.5	2551.9	106450.	16585.
#2	5033.4	2554.3	106050.	16551.

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Sample Name: CRI Acquired: 8/18/2014 12:00:07 Type: QC									
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0049	.2033	.0044	.0491	.1015	.0500	.0040	.0485	5.038
Stddev	.0000	.0074	.0007	.0003	.0009	.0003	.0000	.0006	.035
%RSD	.8552	3.617	15.10	.6405	.9164	.5057	1.021	1.187	.7000
#1	.0049	.2085	.0039	.0493	.1008	.0498	.0041	.0489	5.061
#2	.0049	.1981	.0049	.0489	.1022	.0501	.0040	.0481	5.011

Check ? Value Range
Chk Pass Chk Pass Chk Pass None Chk Pass Chk Pass Chk Pass None Chk Pass

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0040	.0518	.0107	.0233	.1034	4.979	.4852	4.919	.0156
Stddev	.0000	.0001	.0001	.0002	.0010	.021	.0002	.023	.0000
%RSD	1.155	.2263	.9252	.8696	.9877	.4166	.0404	.4591	.1626
#1	.0040	.0517	.0108	.0232	.1041	4.965	.4853	4.903	.0156
#2	.0039	.0518	.0106	.0234	.1026	4.994	.4850	4.935	.0156

Check ? Value Range
Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass None Chk Pass Chk Pass

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1029	4.916	.0421	.0041	.0478	.0503	.0537	.0073	.0105
Stddev	.0004	.006	.0000	.0008	.0005	.0004	.0010	.0006	.0004
%RSD	.4284	.1324	.1063	20.52	.9819	.8141	1.917	8.063	3.854
#1	.1026	4.921	.0421	.0035	.0475	.0506	.0530	.0069	.0107
#2	.1033	4.912	.0421	.0047	.0481	.0500	.0544	.0077	.0102

Check ? Value Range
Chk Pass Chk Pass Chk Pass Chk Pass None None None Chk Pass Chk Pass

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Sample Name: CRI Acquired: 8/18/2014 12:00:07 Type: QC									
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1115	.0980	.0102	.0495	.0039	.0102	.1020	.0208	.0413
Stddev	.0008	.0002	.0001	.0001	.0009	.0000	.0003	.0000	.0008
%RSD	.7421	.2200	.5730	.2535	22.64	.2622	.3410	.0970	1.979
#1	.1121	.0978	.0101	.0496	.0045	.0102	.1018	.0208	.0408
#2	.1109	.0981	.0102	.0494	.0033	.0102	.1022	.0208	.0419

Check ? Value Range
None Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass None Chk Pass None

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5018.1	2571.1	106190.	16300.
Stddev	2.1	2.4	317.	142.
%RSD	.04252	.09307	.29898	.86986
#1	5016.5	2569.4	105960.	16200.
#2	5019.6	2572.8	106410.	16400.

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Sample Name: ICSEA Acquired: 8/18/2014 12:05:43 Type: QC									
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0002	516.8	.0003	-0.0014	.0021	.0005	.0000	.0015	461.5
Stddev	.0004	5.6	.0015	.0003	.0009	.0001	.0000	.0001	4.7
%RSD	187.8	1.075	562.0	24.40	40.17	14.34	45.06	9.686	1.026
#1	-0.0005	512.7	-0.0008	-0.0012	.0027	.0006	.0000	.0016	458.2
#2	-0.0001	520.6	.0014	-0.0016	.0015	.0005	.0001	.0014	464.9

Check ? High Limit Low Limit
Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0002	.0007	.0000	-0.0007	182.8	-1.426	.0070	520.0	-0.0003
Stddev	.0001	.0003	.0003	.0001	.2	.0181	.0009	1.2	.0000
%RSD	24.63	42.69	552.8	14.45	.1153	12.71	12.82	.2237	11.20
#1	-0.0002	.0005	.0002	-0.0008	182.6	-1.554	.0076	519.2	-0.0003
#2	-0.0003	.0009	-0.0001	-0.0007	182.9	-1.298	.0063	520.8	-0.0003

Check ? High Limit Low Limit
Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass None Chk Pass Chk Pass

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0017	.1022	.0001	-0.0003	.0008	-0.0039	.0532	.0025	-0.0024
Stddev	.0000	.0010	.0002	.0006	.0008	.0011	.0013	.0013	.0044
%RSD	2.585	1.012	401.2	182.0	99.69	28.10	2.392	53.44	182.3
#1	.0017	.1014	.0002	.0001	.0013	-0.0031	.0523	.0034	-0.0055
#2	.0017	.1029	-0.0001	-0.0007	.0002	-0.0047	.0541	.0016	.0007

Check ? High Limit Low Limit
Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

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Sample Name: ICSEA Acquired: 8/18/2014 12:05:43 Type: QC									
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0271	.0031	.0013	.0004	-0.0009	.0012	.0150	-0.0003	.0014
Stddev	.0005	.0007	.0000	.0002	.0005	.0002	.0021	.0003	.0001
%RSD	1.907	23.09	2.689	40.82	60.50	18.78	14.08	114.8	6.023
#1	.0275	.0026	.0013	.0003	-0.0005	.0011	.0165	-0.0000	.0015
#2	.0268	.0036	.0013	.0005	-0.0013	.0014	.0135	-0.0005	.0013

Check ? High Limit Low Limit
Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4771.9	2316.6	97839.	15670.
Stddev	5.8	3.1	114.	42.
%RSD	.12209	.13329	.11603	.26976
#1	4776.0	2318.8	97758.	15699.
#2	4767.8	2314.4	97919.	15640.

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Sample Name: ICSAB Acquired: 8/18/2014 12:11:26 Type: QC										
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000										
User: admin Custom ID1: Custom ID2: Custom ID3:										
Comment:										
Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	1.036	517.1	2.019	4960	1.060	4816	4780	5191	456.5	
Stddev	.001	1.8	.001	.0010	.001	.0041	.0033	.0003	2.4	
%RSD	.0883	.3532	.0368	.2071	.0572	.8453	.6863	.0576	.5171	
#1	1.037	515.8	2.018	4967	1.060	4845	4804	5194	458.2	
#2	1.036	518.4	2.019	4952	1.059	4787	4757	5189	454.8	
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	
High Limit										
Low Limit										
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	1.038	4600	4579	5213	181.8	-1614	5053	516.8	4749	
Stddev	.002	.0001	.0008	.0003	1.1	.0070	.0051	4.1	.0005	
%RSD	.1839	.0278	.1694	.0612	.6215	4.316	1.007	.8024	.1120	
#1	1.036	4601	4573	5216	182.6	-1565	5089	519.8	4753	
#2	1.039	4599	4584	5211	181.0	-1663	5017	513.9	4746	
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	
High Limit										
Low Limit										
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	.9588	.0972	.8921	.9320	.5466	.4971	.5749	2.075	2.003	
Stddev	.0044	.0021	.0001	.0019	.0004	.0005	.0029	.001	.002	
%RSD	.4578	2.113	.0167	.2047	.0764	.1053	.5026	.0594	.0937	
#1	.9557	.0986	.8920	.9306	.5463	.4975	.5729	2.074	2.004	
#2	.9619	.0957	.8923	.9333	.5469	.4968	.5770	2.076	2.002	
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	
High Limit										
Low Limit										

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Sample Name: CCV Acquired: 8/18/2014 12:17:02 Type: QC										
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000										
User: admin Custom ID1: Custom ID2: Custom ID3:										
Comment:										
Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	2.492	9.829	1.970	1.983	1.959	1.953	1.950	1.923	9.875	
Stddev	.0012	.039	.002	.004	.003	.001	.009	.010	.099	
%RSD	.4921	.3941	.0884	.2157	.1627	.0736	.4852	.5208	.9986	
#1	2.483	9.857	1.969	1.980	1.957	1.954	1.956	1.916	9.945	
#2	2.501	9.802	1.971	1.986	1.962	1.952	1.943	1.930	9.806	
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	
Value Range										
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	1.966	1.968	1.946	1.917	9.923	9.726	1.932	9.716	1.970	
Stddev	.001	.002	.002	.003	.068	.052	.003	.060	.004	
%RSD	.0443	.0835	.1176	.1361	.6802	.5395	.1427	.6166	.1771	
#1	1.965	1.967	1.944	1.916	9.970	9.763	1.930	9.759	1.968	
#2	1.967	1.969	1.948	1.919	9.875	9.689	1.934	9.674	1.973	
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	
Value Range										
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960	
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Avg	1.958	9.753	1.962	1.947	1.908	1.978	1.975	1.945	1.951	
Stddev	.011	.011	.002	.000	.001	.006	.000	.005	.004	
%RSD	.5433	.1108	.0903	.0130	.0479	.2900	.0113	.2703	.1932	
#1	1.950	9.761	1.961	1.947	1.907	1.982	1.975	1.941	1.948	
#2	1.965	9.745	1.963	1.947	1.909	1.974	1.975	1.949	1.953	
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	
Value Range										

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Sample Name: ICSAB Acquired: 8/18/2014 12:11:26 Type: QC									
Method: Accutest2(v113)		Mode: CONC		Corr. Factor: 1.000000					
User: admin		Custom ID1:		Custom ID2:		Custom ID3:			
Comment:									
Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.093	.9987	.9879	.4725	1.947	4.694	1.944	.9006	.3426
Stddev	.003	.0018	.0077	.0011	.005	.0005	.013	.0006	.0061
%RSD	.1202	.1778	.7827	.2290	.2590	.1043	.6521	.0701	1.786
#1	2.091	.9974	.9934	.4732	1.943	4.698	1.935	.9002	.3383
#2	2.095	.9999	.9825	.4717	1.951	4.691	1.953	.9011	.3470
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit									
Low Limit									
Int. Std.	In2306	Y_2243	Y_3600	Y_3710					
Units	Cts/S	Cts/S	Cts/S	Cts/S					
Avg	4796.9	2331.5	98048.	15803.					
Stddev	3.2	.1	42.	77.					
%RSD	.06595	.00641	.04272	.48441					
#1	4794.7	2331.6	98019.	15749.					
#2	4799.1	2331.4	98078.	15857.					

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Sample Name: CCV Acquired: 8/18/2014 12:17:02 Type: QC									
Method: Accutest2(v113)		Mode: CONC		Corr. Factor: 1.000000					
User: admin		Custom ID1:		Custom ID2:		Custom ID3:			
Comment:									
Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.963	1.956	1.997	1.942	1.956	1.931	1.927	1.975	1.980
Stddev	.004	.005	.003	.003	.003	.005	.010	.001	.003
%RSD	.2210	.2643	.1403	.1433	.1296	.2369	.5042	.0651	.1565
#1	1.960	1.952	1.999	1.940	1.954	1.928	1.920	1.974	1.982
#2	1.966	1.960	1.995	1.944	1.958	1.935	1.934	1.975	1.978
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value Range									
Int. Std.	In2306	Y_2243	Y_3600	Y_3710					
Units	Cts/S	Cts/S	Cts/S	Cts/S					
Avg	5055.9	2568.4	105880.	16259.					
Stddev	9.0	3.8	350.	236.					
%RSD	.17743	.14668	.33072	1.4508					
#1	5049.5	2565.7	106120.	16092.					
#2	5062.2	2571.0	105630.	16426.					

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Sample Name: CCB Acquired: 8/18/2014 12:22:28 Type: QC
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0001	.0120	.0003	.0007	.0025	.0001	.0000	.0011	-0.0029
Stddev	.0001	.0005	.0003	.0001	.0002	.0000	.0000	.0007	.0011
%RSD	128.0	4.033	94.62	18.99	7.709	33.40	97.71	62.34	39.22
#1	-0.0002	.0123	.0001	.0006	.0026	.0001	.0000	.0016	-0.0037
#2	-0.0000	.0116	.0005	.0008	.0023	.0002	.0000	.0006	-0.0021

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0000	.0000	-0.0003	-0.0004	.0018	-0.0038	.0011	-0.0079	.0001
Stddev	.0000	.0000	.0001	.0001	.0009	.0144	.0006	.0001	.0000
%RSD	33.63	53.10	29.57	21.77	48.66	383.2	55.96	1.358	26.05
#1	-0.0000	.0001	-0.0003	-0.0004	.0025	.0064	.0016	-0.0078	.0001
#2	-0.0001	.0000	-0.0004	-0.0003	.0012	-0.0139	.0007	-0.0080	.0001

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0048	.0019	.0000	.0001	.0004	.0019	.0002	.0005	.0009
Stddev	.0008	.0054	.0002	.0010	.0004	.0002	.0012	.0002	.0003
%RSD	15.85	278.3	377.0	907.0	87.68	12.25	584.6	33.05	39.07
#1	.0053	.0058	-0.0001	.0008	.0002	.0017	-0.0007	.0007	.0006
#2	.0043	-0.0019	.0002	-0.0006	.0007	.0021	.0011	.0004	.0011

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

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Sample Name: CCB Acquired: 8/18/2014 12:22:28 Type: QC
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0021	.0007	.0000	.0002	.0006	.0000	.0095	-0.0001	.0015
Stddev	.0004	.0003	.0001	.0001	.0001	.0000	.0010	.0000	.0001
%RSD	18.25	38.22	189.2	62.63	16.85	231.1	10.54	16.40	9.187
#1	.0024	.0005	.0001	.0002	.0006	-0.0000	.0102	-0.0001	.0015
#2	.0018	.0008	-0.0000	.0001	.0007	.0000	.0087	-0.0001	.0014

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4983.6	2574.5	106040.	16322.
Stddev	24.5	11.9	109.	276.
%RSD	.49167	.46288	.10313	1.6940
#1	5000.9	2583.0	105960.	16127.
#2	4966.3	2566.1	106110.	16518.

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Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
Ag 328.068 {103}	☒	10	Fe	-0.000104	0.000000	No
			Mn	0.000165	0.000000	No
			Ti	-0.000056	0.000000	No
			V	-0.000322	0.000000	No
			Cu	-0.000053	0.000000	No
			Mo	-0.000089	0.000000	No
			Zr	0.003220	0.000000	No
			Al	-0.000001	0.000000	No
			Ca	-0.000002	0.000000	No
			Mg	-0.000001	0.000000	No
Al 396.152 { 85}	☒	4	Na	0.000009	0.000000	No
			Mo	0.035743	0.000000	No
			Mn	-0.000198	0.000000	No
			Ca	0.000050	0.000000	No
As 189.042 {478}	☒	15	Fe	-0.000014	0.000000	No
			Mg	0.000001	0.000000	No
			Ca	-0.000001	0.000000	No
			Na	0.000002	0.000000	No
			Mn	-0.000012	0.000000	No
			Co	-0.000735	0.000000	No
			Cr	0.000345	0.000000	No
			Mo	0.001043	0.000000	No
			Ti	-0.000031	0.000000	No
			V	0.000051	0.000000	No
			Al	0.000002	0.000000	No
			Pd	0.023781	0.000000	No
			Zr	0.000110	0.000000	No
			B	-0.000051	0.000000	No
			W	0.001461	0.000000	No
Au 242.795 {139}	☒	3	Fe	0.000401	0.000000	No
			Mn	0.006172	0.000000	No
			W	-0.000213	0.000000	No
B 208.959 {462}	☒	5	Si	0.000676	0.000000	No
			Mo	0.013583	0.000000	No
			Ti	0.000480	0.000000	No
			V	0.001000	0.000000	No
			W	-0.000376	0.000000	No
Ba 455.403 { 74}	☒	1	Ca	0.000010	0.000000	No
Be 313.042 {108}	☒	2	Ti	-0.000303	0.000000	No
			V	0.000137	0.000000	No
Bi 223.061 {451}	☒	7	Fe	0.000031	0.000000	No
			Co	-0.001818	0.000000	No
			Cr	0.001095	0.000000	No
			Ti	-0.001595	0.000000	No
			V	-0.001151	0.000000	No
			Cu	-0.002887	0.000000	No
			W	-0.002446	0.000000	No
			Al	0.000075	0.000000	No
Ca 317.933 {106}	☒	2	Mg	0.000046	0.000000	No
Cd 228.802 {448}	☒	7	Fe	-0.000002	0.000000	No
			Mg	0.000002	0.000000	No
			Co	-0.001551	0.000000	No
			Ni	-0.000103	0.000000	No
			Ca	0.000000	0.000000	No
			V	0.000084	0.000000	No
			W	-0.000853	0.000000	No
Co 228.616 {448}	☒	4	Fe	0.000028	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
			Mo	-0.000377	0.000000	No
			Ti	0.002017	0.000000	No
			Mg	0.000002	0.000000	No
Cr 267.716 {126}	☒	5	Cu	0.000181	0.000000	No
			Al	0.000003	0.000000	No
			Fe	-0.000007	0.000000	No
			Mn	0.000201	0.000000	No
			W	0.000467	0.000000	No
Cu 324.754 {104}2	☒	8	Fe	-0.000082	0.000000	No
			Co	-0.000695	0.000000	No
			Mo	0.000224	0.000000	No
			V	-0.000093	0.000000	No
			Zr	-0.001600	0.000000	No
			Mn	-0.000037	0.000000	No
			Ca	0.000003	0.000000	No
			Ti	0.000014	0.000000	No
Fe 259.940 {130}	☒	None				
In 230.606 {446}*	☒	None				
K 766.490 { 44}	☒	1	Na	0.000226	0.000000	No
Li 670.784 { 50}	☒	2	Ca	0.000024	0.000000	No
			Na	0.000048	0.000000	No
Mg 279.079 {121}	☒	2	Fe	-0.000180	0.000000	No
			Mo	-0.009670	0.000000	No
Mn 257.610 {131}	☒	3	Fe	-0.000015	0.000000	No
			Ca	0.000003	0.000000	No
			Si	0.000235	0.000000	No
Mo 202.030 {467}	☒	8	Al	-0.000002	0.000000	No
			Mg	-0.000002	0.000000	No
			Ca	0.000001	0.000000	No
			Na	-0.000007	0.000000	No
			Mn	-0.000036	0.000000	No
			Co	0.000002	0.000000	No
			Cu	0.000020	0.000000	No
			Ni	0.000009	0.000000	No
Na 589.592 { 57}	☒	1	Al	0.000506	0.000000	No
Ni 231.604 {446}	☒	5	Co	-0.000195	0.000000	No
			Mo	0.000025	0.000000	No
			Fe	0.000032	0.000000	No
			Al	0.000000	0.000000	No
			Ca	-0.000001	0.000000	No
Pb 220.353 {453}	☒	15	Fe	0.000048	0.000000	No
			Al	-0.000062	0.000000	No
			Si	0.000051	0.000000	No
			Co	-0.000024	0.000000	No
			Cu	0.000248	0.000000	No
			Ni	0.000062	0.000000	No
			Mo	-0.000999	0.000000	No
			Mg	0.000004	0.000000	No
			Ca	-0.000008	0.000000	No
			Mn	0.000098	0.000000	No
			S	-0.000075	0.000000	No
			Na	0.000000	0.000000	No
			Ti	-0.000316	0.000000	No
			V	-0.000128	0.000000	No
			W	-0.002172	0.000000	No
Pd 340.458 { 99}	☒	4	Fe	-0.000312	0.000000	No
			Ca	-0.000017	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
Pt 265.945 {127}	☒	7	Co	-0.004770	0.000000	No
			Ti	-0.000574	0.000000	No
			Fe	-0.000028	0.000000	No
			Al	-0.000018	0.000000	No
			Mn	-0.001394	0.000000	No
			Cr	0.004108	0.000000	No
			Mo	-0.001488	0.000000	No
S 182.034 {485}	☒	8	V	-0.008690	0.000000	No
			W	-0.000924	0.000000	No
			Fe	0.000603	0.000000	No
			Al	-0.000004	0.000000	No
			Mg	-0.000007	0.000000	No
			Ca	-0.000083	0.000000	No
			Mn	0.004670	0.000000	No
Sb 206.833 {463}	☒	13	Mo	-0.004370	0.000000	No
			Ti	0.000201	0.000000	No
			W	-0.024551	0.000000	No
			Fe	0.000010	0.000000	No
			Al	-0.000018	0.000000	No
			Mg	-0.000008	0.000000	No
			Ca	0.000000	0.000000	No
			Cr	0.006228	0.000000	No
			Ni	-0.000081	0.000000	No
			Mo	-0.000117	0.000000	No
			Cu	-0.000015	0.000000	No
			Sn	-0.005930	0.000000	No
			Zr	-0.000420	0.000000	No
Se 196.090 {472}	☒	14	Ti	-0.000315	0.000000	No
			V	-0.001466	0.000000	No
			W	-0.000497	0.000000	No
			Fe	-0.000257	0.000000	No
			Al	-0.000002	0.000000	No
			Mg	-0.000012	0.000000	No
			Ca	-0.000009	0.000000	No
			Na	-0.000004	0.000000	No
			Co	-0.000535	0.000000	No
			Ni	-0.000130	0.000000	No
			Mn	0.000299	0.000000	No
			Sn	0.000400	0.000000	No
			Pd	-0.001226	0.000000	No
			V	0.000093	0.000000	No
Si 212.412 {459}	☒	4	Mo	0.000066	0.000000	No
			Ti	0.000001	0.000000	No
			W	0.008850	0.000000	No
			Al	0.000049	0.000000	No
			Mo	0.024726	0.000000	No
Sn 189.989 {478}	☒	1	Ti	0.008351	0.000000	No
Sr 407.771 {83}	☒	None	V	0.028014	0.000000	No
Ti 334.904 {101}	☒	3	Ti	-0.002079	0.000000	No
Tl 190.856 {477}	☒	11	Mo	0.000248	0.000000	No
			Ca	0.000004	0.000000	No
			Al	0.000006	0.000000	No
			Al	0.000001	0.000000	No
			Mg	-0.000001	0.000000	No
			Ca	0.000005	0.000000	No
			Na	-0.000003	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
			Mn	0.000750	0.000000	No
			Co	0.001630	0.000000	No
			Cr	0.000194	0.000000	No
			Ti	-0.002717	0.000000	No
			V	-0.040228	0.000000	No
			Fe	0.000010	0.000000	No
V 292.402 {115}	☒	5	Mo	0.000093	0.000000	No
			Fe	0.000022	0.000000	No
			Mn	-0.000124	0.000000	No
			Cr	-0.002287	0.000000	No
			Mo	-0.006532	0.000000	No
			Ti	0.000602	0.000000	No
W 207.911 {462}	☒	6	Co	-0.000470	0.000000	No
			Cr	-0.000390	0.000000	No
			Cu	-0.000430	0.000000	No
			Ni	-0.000440	0.000000	No
			Ti	-0.000410	0.000000	No
			V	-0.000520	0.000000	No
Y 224.306 {451}* Y 360.073 { 94}* Y 371.030 { 91}* Zn 206.200 {464}	☒ ☒ ☒ ☒	None None None 7				
			Mg	0.000002	0.000000	No
			Al	0.000003	0.000000	No
			Ca	0.000002	0.000000	No
			Na	0.000004	0.000000	No
			Cr	-0.000410	0.000000	No
			Ti	0.000095	0.000000	No
			Fe	-0.000000	0.000000	No
Zr 339.198 { 99}	☒	5	Fe	-0.000043	0.000000	No
			Ti	0.002216	0.000000	No
			V	0.003207	0.000000	No
			Mo	0.000594	0.000000	No
			S	-0.000027	0.000000	No



Date:	08/15/14
Time	13:05

Name:	ERICM1		
MP Batch ID:	MP23493		
QC Sample ID:	MC32825-4		
Reagent Lot #			
1:1 HNO3			
1:1 HCl	RGT-41708-METALS		
Conc HNO3	VENDOR-14860		
Conc HCl			
H2O2			
LCS Lot #			
Digestion Tube Lot #	1312222		
Dig Block ID:	4	Therm ID	GN017
Dig Block ID:		Therm ID	
Balance ID:	N/A	Repipetor ID	1

Aqueous EPA 200.7/ 200.8	☐	WW	☐
Aqueous SW846 3010A	☒		
Soil SW846 3050B	☐		

ML Used		Spike Lot#		
0.5		METSTK-1158-METALS		
Spike ID		MPICP		▼
95	Factor	-1	Corrected Temp. C	94
	Factor		Corrected Temp. C	
Filter Paper Lot #				

Note: (A) Serial dilution shown for QC purposes only (not a separate digestion). (B) For DW samples <1NTU, measure pH prior to analysis.

[illegible]

Protected Worksheet

MMP003-03

QC Review EAL

Date:

08/18/14

(Format edits must be done by Dept. Manager)

General Chemistry

QC Data Summaries

∞

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries
- Instrument Runlogs/QC

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: MC32842
Account: WSPVAR - WSP Environmental & Energy
Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Cyanide	GP18034/GN48016	0.010	0.0026	mg/l	0.1	0.0992	99.2	90-110%
Cyanide	GP18034/GN48016			mg/l	0.2	0.202	101.0	90-110%

Associated Samples:
Batch GP18034: MC32842-1
(*) Outside of QC limits

BLANK SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: MC32842
Account: WSPVAR - WSP Environmental & Energy
Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Analyte	Batch ID	Units	Spike Amount	BSD Result	RPD	QC Limit
Cyanide	GP18034/GN48016	mg/l	0.1	0.101	1.8	20%

Associated Samples:
Batch GP18034: MC32842-1
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: MC32842
Account: WSPVAR - WSP Environmental & Energy
Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Cyanide	GP18034/GN48016	MC32881-1	mg/l	0.0	0.0	0.0	0-20%

Associated Samples:
Batch GP18034: MC32842-1
(*) Outside of QC limits

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MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: MC32842
Account: WSPVAR - WSP Environmental & Energy
Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Cyanide	GP18034/GN48016	MC32881-1	mg/l	0.0	0.1	0.10	100.0	75-125%

Associated Samples:

Batch GP18034: MC32842-1

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

8.4

8

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: MC32842

Account: WSPVAR - WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: 081814W1.CN

Date Analyzed: 08/18/14

Methods: SW846 9012

Analyst: MA

Run ID: GN48016

Parameters: Cyanide

Time	Sample Description	Dilution Factor	PS Recov	Comments
11:45	GN48016-STD1	1		STDA0.50
11:46	GN48016-STD2	1		STDB0.30
11:47	GN48016-STD3	1		STDC0.20
11:48	GN48016-STD4	1		STDD0.10
11:49	GN48016-STD5	1		STDE0.030
11:50	GN48016-STD6	1		STDF0.010
11:52	GN48016-STD7	1		STDG0.00
11:54	GN48016-ICV1	1		
11:56	GN48016-ICB1	1		
11:57	GN48016-CCV1	1		
11:58	GN48016-CCB1	1		
11:59	GP18034-MB1	1		
12:00	GP18034-B1	1		
12:01	GP18034-B2	1		
12:02	GP18034-B3	1		
12:03	GP18034-S1	1		
12:04	GP18034-D1	1		
12:05	MC32881-1	1		(sample used for QC only; not part of login MC32842)
12:06	ZZZZZZ	1		DNR, offscale
12:07	ZZZZZZ	1		DNR, offscale
12:08	ZZZZZZ	1		
12:09	GN48016-CCV2	1		
12:10	GN48016-CCB2	1		
12:11	ZZZZZZ	1		
12:12	ZZZZZZ	1		
12:13	ZZZZZZ	1		
12:14	ZZZZZZ	1		
12:15	GN48016-CCV3	1		
12:16	GN48016-CCB3	1		
12:39	GN48016-CCV4	1		
12:40	GN48016-CCB4	1		
12:41	MC32842-1	2		
12:42	ZZZZZZ	2		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: MC32842

Account: WSPVAR - WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: 081814W1.CN

Date Analyzed: 08/18/14

Methods: SW846 9012

Analyst: MA

Run ID: GN48016

Parameters: Cyanide

Time	Sample Description	Dilution Factor	PS Recov	Comments

12:43 GN48016-CCV5 1

12:44 GN48016-CCB5 1

Refer to raw data for calibration curve and standards.

8.5

8

Instrument QC Summary
Inorganics Analyses

Login Number: MC32842
Account: WSPVAR - WSP Environmental & Energy
Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: 081814W1.CN

Date Analyzed: 08/18/14
Run ID: GN48016

Methods: SW846 9012
Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN48016-ICV1	Cyanide	0.20	0.010	0.0014	.2	100.0	90-110
GN48016-ICB1	Cyanide	0.0014 U	0.010	0.0014			
GN48016-CCV1	Cyanide	0.30	0.010	0.0014	.3	100.0	90-110
GN48016-CCB1	Cyanide	0.0014 U	0.010	0.0014			
GN48016-CCV2	Cyanide	0.30	0.010	0.0014	.3	100.0	90-110
GN48016-CCB2	Cyanide	0.0014 U	0.010	0.0014			
GN48016-CCV3	Cyanide	0.30	0.010	0.0014	.3	100.0	90-110
GN48016-CCB3	Cyanide	0.0014 U	0.010	0.0014			
GN48016-CCV4	Cyanide	0.30	0.010	0.0014	.3	100.0	90-110
GN48016-CCB4	Cyanide	0.0014 U	0.010	0.0014			
GN48016-CCV5	Cyanide	0.30	0.010	0.0014	.3	100.0	90-110
GN48016-CCB5	Cyanide	0.0014 U	0.010	0.0014			

(!) Outside of QC limits

General Chemistry

Raw Data

6

Reagents					
Calib STD	GNSTD-	34839-CN	Buffer	RGT-	42106-CN
ICV	GNSTD-	34838-CN-2	Carrier	RGT-	41375-CN
CCV	GNSTD-	34839-CN-4	Chloramine-T	RGT-	42104-CN
Silver Nitrate	RGT-	41629-CN	Pyridine Barb. Acid	RGT-	42105-CN
Rhodamine indicator	RGT-	41630-CN	CN STOCK STD	GNSTD-	34840-CN-1

QC Review

Date:

8-18-58

[illegible]

QC Review

Date _____

Author: chemistry

Date : 8/18/2014

Original Run Filename: OM_8-18-2014_11-44-41AM.OMN Created: 8/18/2014 11:44:41 AM

Original Run Author's Signature: [chemistry]

Current Run Filename: OM_8-18-2014_11-44-41AM.OMN Last Modified: 8/18/2014 12:19:00 PM

Current Run Author's Signature: [chemistry]

Description: Default New Run

Sample	Rep.	Channel 1 Cn (mg/L)	MDF
StdA0.50	1	0.500	
StdB0.30	1	0.300	
StdC0.20	1	0.200	
StdD0.10	1	0.100	
StdE0.030	1	0.0300	
StdF0.010	1	0.0100	
StdG0.00	1	0.00	
ICV	1	0.200	
Calibration: Table/Fig. : 1			
ICB	1	8.20e-4	
CCV	1	0.296	
CCB	1	9.92e-4	
GP18034-MB1	1	2.57e-3	
GP18034-B1	1	0.0992	
GP18034-B2	1	0.101	
GP18034-B3	1	0.202	
GP18034-S1	1	0.101	
GP18034-D1	1	5.82e-6	
MC32881-1	1	-7.86e-4	
MC32842-1	1	0.677	
MC32872-3	1	0.579	
MC32881-2	1	6.71e-4	
CCV	1	0.300	
CCB	1	7.73e-4	
MC32881-3	1	-5.57e-4	
MC32881-4	1	-9.21e-4	
MC32881-5	1	-9.00e-4	
MC32881-6	1	-4.66e-4	
CCV	1	0.299	
CCB	1	7.25e-4	

DNR offscale MC3 8-18-14
DNR offscale MC3

Table : 1 (Cn)

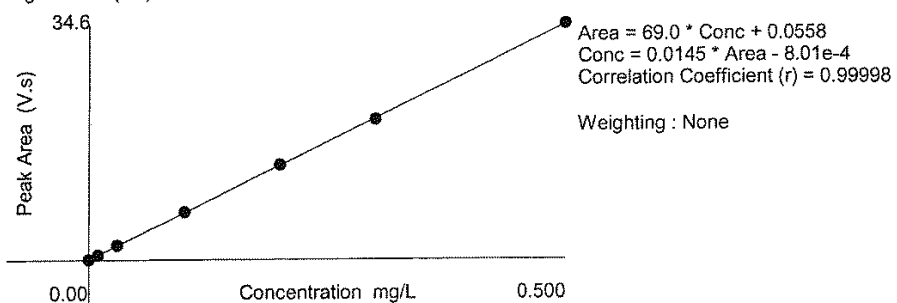
	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	0.500	1	34.6	1.78	0.0	-0.2	0.501	8/18/2014	11:45:36 AM
2	0.300	1	20.6	1.05	0.0	0.9	0.297	8/18/2014	11:46:41 AM
3	0.200	1	13.9	0.714	0.0	-0.4	0.201	8/18/2014	11:47:45 AM
4	0.100	1	7.03	0.362	0.0	-1.0	0.101	8/18/2014	11:48:50 AM
5	0.0300	1	2.13	0.109	0.0	-0.4	0.0301	8/18/2014	11:49:54 AM
6	0.0100	1	0.737	0.0375	0.0	1.2	9.88e-3	8/18/2014	11:50:59 AM
7	0.00	1	0.0437	2.89e-3			-1.67e-4	8/18/2014	11:52:03 AM

8,18,14

Author: chemistry

Date : 8/18/2014

Figure : 1 (Cn)

9.1
6

8,18,19

Author: chemistry

Date : 8/18/2014

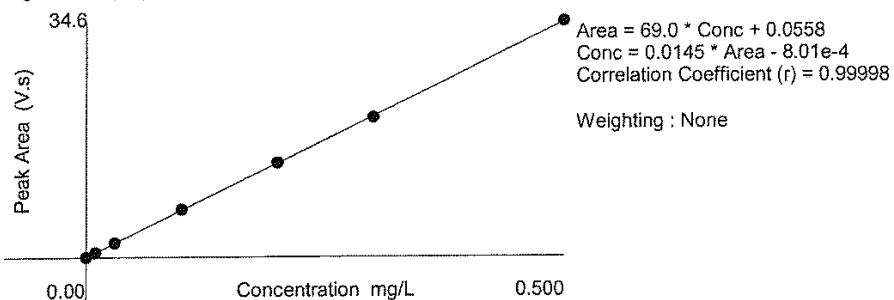
Original Run Filename: OM_8-18-2014_12-38-43PM.OMN Created: 8/18/2014 12:38:43 PM
 Original Run Author's Signature: [chemistry]
 Current Run Filename: OM_8-18-2014_12-38-43PM.OMN Last Modified: 8/18/2014 12:46:56 PM
 Current Run Author's Signature: [chemistry]
 Description: Default New Run

Sample	Rep.	Channel 1 Cn (mg/L)	MDF
CCV	1	0.301	
Calibration: Table/Fig. : 1			
CCB	1	1.02e-3	
MC32842-1	1	0.354	2.00
MC32872-3	1	0.312	2.00
CCV	1	0.304	
CCB	1	8.13e-4	

Table : 1 (Cn)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	0.500	1	34.6	1.78	0.0	-0.2	0.501	8/18/2014	11:45:36 AM
2	0.300	1	20.6	1.05	0.0	0.9	0.297	8/18/2014	11:46:41 AM
3	0.200	1	13.9	0.714	0.0	-0.4	0.201	8/18/2014	11:47:45 AM
4	0.100	1	7.03	0.362	0.0	-1.0	0.101	8/18/2014	11:48:50 AM
5	0.0300	1	2.13	0.109	0.0	-0.4	0.0301	8/18/2014	11:49:54 AM
6	0.0100	1	0.737	0.0375	0.0	1.2	9.88e-3	8/18/2014	11:50:59 AM
7	0.00	1	0.0437	2.89e-3			-1.67e-4	8/18/2014	11:52:03 AM

Figure : 1 (Cn)



8,18,14



08/20/14

Technical Report for

WSP Environmental & Energy

Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY
4255-6

Accutest Job Number: MC32872

Sampling Date: 08/13/14

Report to:

WSP Environmental & Energy

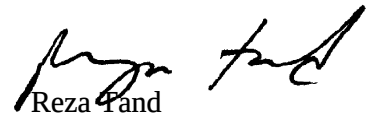
Martha.fleming@wspgroup.com

ATTN: Martha Fleming

Total number of pages in report: **72**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.


Reza Fand
Lab Director

Client Service contact: Frank DAgostino 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579)
NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220)
DoD ELAP (L-A-B L2235)

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Test results relate only to samples analyzed.

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Sample Summary

WSP Environmental & Energy

Job No: MC32872

Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY
Project No: 4255-6

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
MC32872-1	08/13/14	11:00 MF	08/14/14	AQ	Ground Water	LBA-MW-18(0813)
MC32872-2	08/13/14	11:50 MF	08/14/14	AQ	Ground Water	LBA-MW-41
MC32872-3	08/13/14	12:20 MF	08/14/14	AQ	Ground Water	LBA-MW-18(0813)



SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: WSP Environmental & Energy

Job No MC32872

Site: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca,

Report Date 8/18/2014 3:23:14 PM

3 Sample(s) were collected on 08/13/2014 and were received at Accutest on 08/14/2014 properly preserved, at 1.2 Deg. C and intact. These Samples received an Accutest job number of MC32872. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Sample Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Metals By Method SW846 6010C

Matrix AQ

Batch ID: MP23493

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Wet Chemistry By Method SW846 9012

Matrix AQ

Batch ID: GP18034

- All samples were distilled within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC32881-1DUP, MC32881-1MS were used as the QC samples for Cyanide.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety. The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report (MC32872).

Summary of Hits

Page 1 of 1

Job Number: MC32872

Account: WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Collected: 08/13/14



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC32872-1	LBA-MW-18(0813)					
Barium		5710	50	2.0	ug/l	SW846 6010C
MC32872-2	LBA-MW-41					
Barium		902	50	2.0	ug/l	SW846 6010C
MC32872-3	LBA-MW-18(0813)					
Cyanide		0.62	0.020		mg/l	SW846 9012

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	LBA-MW-18(0813)	Date Sampled:	08/13/14
Lab Sample ID:	MC32872-1	Date Received:	08/14/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Barium	5710	50	2.0	ug/l	1	08/15/14	08/18/14 EAL	SW846 6010C ¹	SW846 3010A ²

(1) Instrument QC Batch: MA17448
(2) Prep QC Batch: MP23493

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	LBA-MW-41	Date Sampled:	08/13/14
Lab Sample ID:	MC32872-2	Date Received:	08/14/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Barium	902	50	2.0	ug/l	1	08/15/14	08/18/14 EAL	SW846 6010C ¹	SW846 3010A ²

(1) Instrument QC Batch: MA17448
(2) Prep QC Batch: MP23493

RL = Reporting Limit
MDL = Method Detection Limit
U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

4.2
4

Report of Analysis

Client Sample ID:	LBA-MW-18(0813)	Date Sampled:	08/13/14
Lab Sample ID:	MC32872-3	Date Received:	08/14/14
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	0.62	0.020	mg/l	2	08/18/14 12:42	MA	SW846 9012

RL = Reporting Limit

4.3
4

Misc. Forms

5

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

Page 1 of 1

5.1

Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC32872 **Client:** WSP **Immediate Client Services Action Required:** No
Date / Time Received: 8/14/2014 **Delivery Method:** **Client Service Action Required at Login:** No
Project: 4255/6 **No. Coolers:** 1 **Airbill #'s:**

Cooler Security **Y or N** **Y or N**
1. Custody Seals Present: ☒ ☐ 3. COC Present: ☒ ☐
2. Custody Seals Intact: ☒ ☐ 4. Smpl Dates/Time OK: ☒ ☐

Cooler Temperature **Y or N**
1. Temp criteria achieved: ☒ ☐
2. Cooler temp verification: Infrared gun
3. Cooler media: Ice (bag)

Quality Control Preservation **Y** **or** **N** **N/A**
1. Trip Blank present / cooler: ☐ ☐ ☒
2. Trip Blank listed on COC: ☐ ☐ ☒
3. Samples preserved properly: ☒ ☐
4. VOCs headspace free: ☐ ☐ ☒

Sample Integrity - Documentation **Y** **or** **N**
1. Sample labels present on bottles: ☒ ☐
2. Container labeling complete: ☒ ☐
3. Sample container label / COC agree: ☒ ☐

Sample Integrity - Condition **Y** **or** **N**
1. Sample recvd within HT: ☒ ☐
2. All containers accounted for: ☒ ☐
3. Condition of sample: Intact

Sample Integrity - Instructions **Y** **or** **N** **N/A**
1. Analysis requested is clear: ☒ ☐
2. Bottles received for unspecified tests: ☐ ☒
3. Sufficient volume recvd for analysis: ☒ ☐
4. Compositing instructions clear: ☐ ☐ ☒
5. Filtering instructions clear: ☐ ☐ ☒

Comments

Internal Sample Tracking Chronicle

WSP Environmental & Energy

Job No: MC32872

Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY
Project No: 4255-6

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC32872-1 Collected: 13-AUG-14 11:00 By: MF Received: 14-AUG-14 By: AF LBA-MW-18(0813)						
MC32872-1	SW846 6010C	18-AUG-14 11:43	EAL	15-AUG-14 EM	BA	
MC32872-2 Collected: 13-AUG-14 11:50 By: MF Received: 14-AUG-14 By: AF LBA-MW-41						
MC32872-2	SW846 6010C	18-AUG-14 11:48	EAL	15-AUG-14 EM	BA	
MC32872-3 Collected: 13-AUG-14 12:20 By: MF Received: 14-AUG-14 By: AF LBA-MW-18(0813)						
MC32872-3	SW846 9012	18-AUG-14 12:42	MA	18-AUG-14 MA	CN	

Accutest Internal Chain of Custody

Page 1 of 1

Job Number: MC32872

Account: WSPVAR WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Received: 08/14/14

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC32872-1.1	Walk In Ref #5	Eric Mensah	08/15/14 12:30	Retrieve from Storage
MC32872-1.1	Eric Mensah	Walk In Ref #5	08/18/14 10:03	Return to Storage
MC32872-2.1	Walk In Ref #5	Eric Mensah	08/15/14 12:30	Retrieve from Storage
MC32872-2.1	Eric Mensah	Walk In Ref #5	08/18/14 10:03	Return to Storage
MC32872-3.1	Walk In Ref #9	Mehdi Abdolrahim	08/18/14 08:16	Retrieve from Storage
MC32872-3.1	Mehdi Abdolrahim	Walk In Ref #9	08/18/14 10:09	Return to Storage

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Instrument Runlogs
- Initial and Continuing Calibration Blanks
- Initial and Continuing Calibration Checks
- High and Low Check Standards
- Interfering Element Check Standards
- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: MC32872

Account: WSPVAR - WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB081814M1.ICP

Date Analyzed: 08/18/14

Methods: SW846 6010C

Analyst: EAL

Run ID: MA17448

Parameters: Ba

Time	Sample Description	Dilution Factor	PS Recov	Comments
09:44	MA17448-STD1	1		STD1
09:50	MA17448-STD2	1		STD2
09:55	MA17448-ICV1	1		
10:02	MA17448-ICB1	1		
10:08	MA17448-CCV1	1		
10:13	MA17448-CCB1	1		
10:19	MA17448-CRI1	1		
10:24	MA17448-ICSA1	1		
10:30	MA17448-ICSAB1	1		
10:36	MP23493-B1	1		
10:41	MP23493-MB1	1		
10:47	MP23493-S1	1		
10:52	MP23493-S2	1		
10:58	MC32825-4	1		(sample used for QC only; not part of login MC32872)
11:03	MP23493-SD1	5		
11:09	ZZZZZZ	1		DNR: BSD NOT NEEDED.
11:15	MA17448-CCV2	1		
11:20	MA17448-CCB2	1		
11:26	ZZZZZZ	1		DNR: FOR CONFIRMATION ONLY.
11:31	ZZZZZZ	1		DNR: FOR CONFIRMATION ONLY.
11:37	ZZZZZZ	1		
11:43	MC32872-1	1		
11:48	MC32872-2	1		
----->	Last reportable sample/prep for job MC32872			
11:54	ZZZZZZ	1		DNR: METALS BY 200.7 EPR CLIENT.
12:00	MA17448-CRI2	1		
12:05	MA17448-ICSA2	1		
12:11	MA17448-ICSAB2	1		
12:17	MA17448-CCV3	1		
12:22	MA17448-CCB3	1		
----->	Last reportable CCB for job MC32872			
	Refer to raw data for calibration curve and standards.			

INTERNAL STANDARD SUMMARY

Login Number: MC32872

Account: WSPVAR - WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB081814M1.ICP

Date Analyzed: 08/18/14

Methods: SW846 6010C

Analyst: EAL

Run ID: MA17448

Parameters: Ba

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
09:44	MA17448-STD1	2559 R	105130 R	15420 R	4916 R
09:50	MA17448-STD2	2543	106200	16462	5045
09:55	MA17448-ICV1	2528	105240	16181	5000
10:02	MA17448-ICB1	2594	107750	16536	5005
10:08	MA17448-CCV1	2584	107940	16514	5073
10:13	MA17448-CCB1	2578	107380	16296	4986
10:19	MA17448-CRI1	2573	106920	16499	4997
10:24	MA17448-ICSA1	2308	97601	15466	4739
10:30	MA17448-ICSAB1	2313	97400	15696	4750
10:36	MP23493-B1	2521	106090	16392	4974
10:41	MP23493-MB1	2526	106440	16451	4902
10:47	MP23493-S1	2515	105850	16495	4972
10:52	MP23493-S2	2499	105100	16235	4938
10:58	MC32825-4	2545	106870	16600	4948
11:03	MP23493-SD1	2559	106550	16332	4955
11:09	ZZZZZZ	2513	105630	16341	4970
11:15	MA17448-CCV2	2561	105870	16383	5041
11:20	MA17448-CCB2	2582	107560	16576	5002
11:26	ZZZZZZ	2645	110780	17385	5141
11:31	ZZZZZZ	2647	110740	17013	5145
11:37	ZZZZZZ	2514	104120	16270	4950
11:43	MC32872-1	2502	103290	16008	4924
11:48	MC32872-2	2470	103740	15978	4911
11:54	ZZZZZZ	2553	106250	16568	5032
12:00	MA17448-CRI2	2571	106190	16300	5018
12:05	MA17448-ICSA2	2317	97839	15670	4772
12:11	MA17448-ICSAB2	2332	98048	15803	4797
12:17	MA17448-CCV3	2568	105880	16259	5056
12:22	MA17448-CCB3	2575	106040	16322	4984

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	70-130 %
Istd#2	Yttrium (3600)	70-130 %
Istd#3	Yttrium (3710)	70-130 %
Istd#4	Indium	70-130 %

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: MC32872
Account: WSPVAR - WSP Environmental & Energy
Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB081814M1.ICP Date Analyzed: 08/18/14 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA17448 Units: ug/l

Time: Sample ID:	RL	IDL	10:02 ICB1 raw	final	10:13 CCB1 raw	final	11:20 CCB2 raw	final	12:22 CCB3 raw	final
Metal										
Aluminum	200	7.5	anr							
Antimony	6.0	.94	anr							
Arsenic	4.0	.64	anr							
Barium	50	.17	0.0	<50	0.10	<50	0.10	<50	0.10	<50
Beryllium	4.0	.04	anr							
Bismuth	50	1								
Boron	100	1.1								
Cadmium	4.0	.16	anr							
Calcium	5000	3.8	anr							
Chromium	10	.43	anr							
Cobalt	50	.19	anr							
Copper	25	.44	anr							
Gold	50	.67								
Iron	100	1.9	anr							
Lead	5.0	.83	anr							
Lithium	500	1.5								
Magnesium	5000	27	anr							
Manganese	15	.04	anr							
Molybdenum	100	1.6								
Nickel	40	.23	anr							
Palladium	50	.98								
Platinum	50	2.3								
Potassium	5000	28	anr							
Selenium	10	1.8	anr							
Silicon	100	5.9								
Silver	5.0	.5	anr							
Sodium	5000	6.5	anr							
Sulfur	50	2								
Strontium	10	.079								
Thallium	5.0	1.3	anr							
Tin	100	.74								
Titanium	50	.25								
Tungsten	100	2.6								

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: MC32872
Account: WSPVAR - WSP Environmental & Energy
Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB081814M1.ICP Date Analyzed: 08/18/14 Methods: SW846 6010C
QC Limits: result < RL Run ID: MA17448 Units: ug/l

Time: Sample ID:			10:02 ICB1		10:13 CCB1		11:20 CCB2		12:22 CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final

Vanadium 10 .38 anr

Zinc 20 .24 anr

Zirconium 50 .19

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: MC32872

Account: WSPVAR - WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB081814M1.ICP
QC Limits: 90 to 110 % Recovery

Date Analyzed: 08/18/14
Run ID: MA17448

Methods: SW846 6010C
Units: ug/l

Time: Sample ID:		09:55 ICV1	% Rec	CCV	10:08 CCV1	% Rec	CCV	11:15 CCV2	% Rec
Metal	ICV True	Results		True	Results		True	Results	
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	3000	3060	102.0	2000	1950	97.5	2000	1970	98.5
Beryllium	anr								
Bismuth									
Boron									
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Gold									
Iron	anr								
Lead	anr								
Lithium									
Magnesium	anr								
Manganese	anr								
Molybdenum									
Nickel	anr								
Palladium									
Platinum									
Potassium	anr								
Selenium	anr								
Silicon									
Silver	anr								
Sodium	anr								
Sulfur									
Strontium									
Thallium	anr								
Tin									
Titanium									
Tungsten									

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: MC32872
Account: WSPVAR - WSP Environmental & Energy
Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB081814M1.ICP Date Analyzed: 08/18/14 Methods: SW846 6010C
QC Limits: 90 to 110 % Recovery Run ID: MA17448 Units: ug/l

Time:		09:55		10:08		11:15			
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec

Vanadium anr

Zinc anr

Zirconium

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: MC32872

Account: WSPVAR - WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB081814M1.ICP
QC Limits: 90 to 110 % Recovery

Date Analyzed: 08/18/14
Run ID: MA17448

Methods: SW846 6010C
Units: ug/l

Time: Sample ID: CCV		12:17 CCV3		
Metal	True	Results	% Rec	
Aluminum	anr			
Antimony	anr			
Arsenic	anr			
Barium	2000	1950	97.5	
Beryllium	anr			
Bismuth				
Boron				
Cadmium	anr			
Calcium	anr			
Chromium	anr			
Cobalt	anr			
Copper	anr			
Gold				
Iron	anr			
Lead	anr			
Lithium				
Magnesium	anr			
Manganese	anr			
Molybdenum				
Nickel	anr			
Palladium				
Platinum				
Potassium	anr			
Selenium	anr			
Silicon				
Silver	anr			
Sodium	anr			
Sulfur				
Strontium				
Thallium	anr			
Tin				
Titanium				
Tungsten				

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: MC32872

Account: WSPVAR - WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB081814M1.ICP
QC Limits: 90 to 110 % Recovery

Date Analyzed: 08/18/14
Run ID: MA17448

Methods: SW846 6010C
Units: ug/l

Time:		12:17
Sample ID:		CCV3
Metal	True	Results % Rec

Vanadium anr

Zinc anr

Zirconium

(*) Outside of QC limits
(anr) Analyte not requested

6.1.3

6

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: MC32872

Account: WSPVAR - WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB081814M1.ICP Date Analyzed: 08/18/14 Methods: SW846 6010C
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA17448 Units: ug/l

Time: Sample ID:	CRI	CRIA	10:19 CRI1	% Rec	12:00 CRI2	% Rec
Metal	True	True	Results		Results	
Aluminum	200	200	anr			
Antimony	6.0	10	anr			
Arsenic	4.0	10	anr			
Barium	50	50	49.6	99.2	50.0	100.0
Beryllium	4.0	4.0	anr			
Bismuth	50	50				
Boron	100	100				
Cadmium	4.0	4.0	anr			
Calcium	5000	5000	anr			
Chromium	10	10	anr			
Cobalt	50	50	anr			
Copper	25	25	anr			
Gold	50	50				
Iron	100	100	anr			
Lead	5.0	10	anr			
Lithium	500	500				
Magnesium	5000	5000	anr			
Manganese	15	15	anr			
Molybdenum	100	100				
Nickel	40	40	anr			
Palladium	50	50				
Platinum	50	50				
Potassium	5000	5000	anr			
Selenium	10	10	anr			
Silicon	100	100				
Silver	5.0	5.0	anr			
Sodium	5000	5000	anr			
Sulfur	50	50				
Strontium	10	10				
Thallium	5.0	10	anr			
Tin	100	100				
Titanium	50	50				
Tungsten	100	100				

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: MC32872

Account: WSPVAR - WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB081814M1.ICP

Date Analyzed: 08/18/14

Methods: SW846 6010C

QC Limits: CRI 70-130% CRIA 70-130%

Run ID: MA17448

Units: ug/l

Time:						
Sample ID:	CRI	CRIA	10:19 CRI1	% Rec	12:00 CRI2	% Rec
Metal	True	True	Results		Results	

Vanadium 10 10 anr

Zinc 20 20 anr

Zirconium 50 50

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: MC32872

Account: WSPVAR - WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB081814M1.ICP
 QC Limits: 80 to 120 % Recovery

Date Analyzed: 08/18/14
 Run ID: MA17448

Methods: SW846 6010C
 Units: ug/l

Time: Sample ID:	ICSA True	ICSAB True	10:24 ICSA1 Results	% Rec	10:30 ICSAB1 Results	% Rec	12:05 ICSA2 Results	% Rec	12:11 ICSAB2 Results	% Rec
Metal										
Aluminum	500000	500000	522000	104.4	521000	104.2	517000	103.4	517000	103.4
Antimony		2000	1.0		2100	105.0	2.5		2080	104.0
Arsenic		2000	0.70		2020	101.0	0.30		2020	101.0
Barium		500	0.50		480	96.0	0.50		482	96.4
Beryllium		500	0.0		479	95.8	0.0		478	95.6
Bismuth		500	2.3		529	105.8	1.5		519	103.8
Boron		1000	2.0		1060	106.0	2.1		1060	106.0
Cadmium		1000	0.0		1040	104.0	-0.20		1040	104.0
Calcium	500000	500000	459000	91.8	458000	91.6	462000	92.4	457000	91.4
Chromium		500	0.20		461	92.2	0.0		458	91.6
Cobalt		500	0.90		462	92.4	0.70		460	92.0
Copper		500	-0.20		524	104.8	-0.70		521	104.2
Gold		500	-0.90		497	99.4	-1.4		496	99.2
Iron	200000	200000	184000	92.0	181000	90.5	183000	91.5	182000	91.0
Lead		1000	0.30		937	93.7	-0.30		932	93.2
Lithium		500	7.6		506	101.2	7.0		505	101.0
Magnesium	500000	500000	524000	104.8	521000	104.2	520000	104.0	517000	103.4
Manganese		500	-0.10		480	96.0	-0.30		475	95.0
Molybdenum		1000	2.4		963	96.3	1.7		959	95.9
Nickel		1000	0.0		901	90.1	0.10		892	89.2
Palladium		500	-0.20		550	110.0	0.80		547	109.4
Platinum		500	-1.2		499	99.8	-3.9		497	99.4
Potassium			-160		-150		-140		-160	
Selenium		2000	-1.0		2020	101.0	-2.4		2000	100.0
Silicon		2000	24.0		2110	105.5	27.1		2090	104.5
Silver		1000	0.10		1030	103.0	-0.20		1040	104.0
Sodium			86.2		84.8		102		97.2	
Sulfur		500	49.2		578	115.6	53.2		575	115.0
Strontium		1000	1.3		987	98.7	1.3		988	98.8
Thallium		2000	-0.70		1950	97.5	-0.90		1950	97.5
Tin		1000	2.8		1010	101.0	3.1		999	99.9
Titanium		500	0.40		478	95.6	0.40		473	94.6
Tungsten		2000	22.5		1950	97.5	15.0		1940	97.0

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: MC32872
 Account: WSPVAR - WSP Environmental & Energy
 Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: SB081814M1.ICP Date Analyzed: 08/18/14 Methods: SW846 6010C
 QC Limits: 80 to 120 % Recovery Run ID: MA17448 Units: ug/l

Time:				10:24			10:30			12:05			12:11		
Sample ID:	ICSAB	ICSAB	ICSAB	ICSAB1	% Rec	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Metal	True	True	True	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec	Results	% Rec
Vanadium		500	1.0			477	95.4	1.2		469	93.8				
Zinc		1000	0.10			903	90.3	-0.30		901	90.1				
Zirconium		500	1.7			353	70.6*	1.4		343	68.6*				
(*) Outside of QC limits															
(anr) Analyte not requested															

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: MC32872

Account: WSPVAR - WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

QC Batch ID: MP23493

Methods: SW846 6010C

Matrix Type: AQUEOUS

Units: ug/l

Prep Date:

08/15/14

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	7.5	13		
Antimony	6.0	.94	2.4		
Arsenic	4.0	.64	2.4		
Barium	50	.17	2	0.20	<50
Beryllium	4.0	.04	.18		
Bismuth	50	1	3		
Boron	100	1.1	3.4		
Cadmium	4.0	.16	.24		
Calcium	5000	3.8	21		
Chromium	10	.43	.73		
Cobalt	50	.19	.6		
Copper	25	.44	3.6		
Gold	50	.67	1.4		
Iron	100	1.9	7.4		
Lead	5.0	.83	1.9		
Lithium	500	1.5	45		
Magnesium	5000	27	74		
Manganese	15	.04	.35		
Molybdenum	100	1.6	.81		
Nickel	40	.23	.57		
Palladium	50	.98	6.5		
Platinum	50	2.3	5.1		
Potassium	5000	28	69		
Selenium	10	1.8	2.7		
Silicon	100	5.9	21		
Silver	5.0	.5	.96		
Sodium	5000	6.5	22		
Sulfur	50	2	9.7		
Strontium	10	.079	.18		
Thallium	5.0	1.3	1.5		
Tin	100	.74	3.3		
Titanium	50	.25	.89		
Tungsten	100	2.6	5.2		

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: MC32872
Account: WSPVAR - WSP Environmental & Energy
Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

QC Batch ID: MP23493
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 08/15/14

Metal	RL	IDL	MDL	MB raw	final

Vanadium 10 .38 .72

Zinc 20 .24 4.2

Zirconium 50 .19 1.3

Associated samples MP23493: MC32872-1, MC32872-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

6.2.1

6

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: MC32872

Account: WSPVAR - WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

QC Batch ID: MP23493

Methods: SW846 6010C

Matrix Type: AQUEOUS

Units: ug/l

Prep Date: 08/15/14

Metal	MC32825-4 Original MS	Spike Lot MPICP		% Rec	QC Limits
Aluminum	anr				
Antimony	anr				
Arsenic	anr				
Barium	80.3	2050	2000	98.5	75-125
Beryllium	anr				
Bismuth					
Boron					
Cadmium	anr				
Calcium	anr				
Chromium	anr				
Cobalt	anr				
Copper	anr				
Gold					
Iron	anr				
Lead	anr				
Lithium					
Magnesium	anr				
Manganese	anr				
Molybdenum					
Nickel	anr				
Palladium					
Platinum					
Potassium	anr				
Selenium	anr				
Silicon					
Silver	anr				
Sodium	anr				
Sulfur					
Strontium					
Thallium	anr				
Tin					
Titanium					
Tungsten					

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: MC32872
 Account: WSPVAR - WSP Environmental & Energy
 Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

QC Batch ID: MP23493
 Matrix Type: AQUEOUS

Methods: SW846 6010C
 Units: ug/l

Prep Date: 08/15/14

Metal	MC32825-4 Original MS	Spike lot MPICP	% Rec	QC Limits

Vanadium anr

Zinc anr

Zirconium

Associated samples MP23493: MC32872-1, MC32872-2

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

6.2.2

6

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: MC32872

Account: WSPVAR - WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

QC Batch ID: MP23493

Methods: SW846 6010C

Matrix Type: AQUEOUS

Units: ug/l

Prep Date:

08/15/14

Metal	MC32825-4 Original	MSD	Spike/lot MPICP	% Rec	MSD RPD	QC Limit
Aluminum	anr					
Antimony	anr					
Arsenic	anr					
Barium	80.3	2030	2000	97.5	1.0	20
Beryllium	anr					
Bismuth						
Boron						
Cadmium	anr					
Calcium	anr					
Chromium	anr					
Cobalt	anr					
Copper	anr					
Gold						
Iron	anr					
Lead	anr					
Lithium						
Magnesium	anr					
Manganese	anr					
Molybdenum						
Nickel	anr					
Palladium						
Platinum						
Potassium	anr					
Selenium	anr					
Silicon						
Silver	anr					
Sodium	anr					
Sulfur						
Strontium						
Thallium	anr					
Tin						
Titanium						
Tungsten						

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: MC32872
 Account: WSPVAR - WSP Environmental & Energy
 Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

QC Batch ID: MP23493
 Matrix Type: AQUEOUS

Methods: SW846 6010C
 Units: ug/l

Prep Date: 08/15/14

Metal	MC32825-4 Original MSD	Spike lot MPICP	% Rec	MSD RPD	QC Limit

Vanadium anr

Zinc anr

Zirconium

Associated samples MP23493: MC32872-1, MC32872-2

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

6.2.2

6

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: MC32872

Account: WSPVAR - WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

QC Batch ID: MP23493

Methods: SW846 6010C

Matrix Type: AQUEOUS

Units: ug/l

Prep Date: 08/15/14

Metal	BSP Result	Spike lot MPICP	% Rec	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	anr			
Barium	1970	2000	98.5	80-120
Beryllium	anr			
Bismuth				
Boron				
Cadmium	anr			
Calcium	anr			
Chromium	anr			
Cobalt	anr			
Copper	anr			
Gold				
Iron	anr			
Lead	anr			
Lithium				
Magnesium	anr			
Manganese	anr			
Molybdenum				
Nickel	anr			
Palladium				
Platinum				
Potassium	anr			
Selenium	anr			
Silicon				
Silver	anr			
Sodium	anr			
Sulfur				
Strontium				
Thallium	anr			
Tin				
Titanium				
Tungsten				

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: MC32872

Account: WSPVAR - WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

QC Batch ID: MP23493

Methods: SW846 6010C

Matrix Type: AQUEOUS

Units: ug/l

Prep Date: 08/15/14

Metal	BSP Result	Spike lot MPICP	% Rec	QC Limits

Vanadium anr

Zinc anr

Zirconium

Associated samples MP23493: MC32872-1, MC32872-2

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

6.2.3

6

SERIAL DILUTION RESULTS SUMMARY

Login Number: MC32872

Account: WSPVAR - WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

QC Batch ID: MP23493

Methods: SW846 6010C

Matrix Type: AQUEOUS

Units: ug/l

Prep Date: 08/15/14

Metal	MC32825-4 Original	SDL 1:5	%DIF	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	anr			
Barium	80.3	82.7	3.0	0-10
Beryllium	anr			
Bismuth				
Boron				
Cadmium	anr			
Calcium	anr			
Chromium	anr			
Cobalt	anr			
Copper	anr			
Gold				
Iron	anr			
Lead	anr			
Lithium				
Magnesium	anr			
Manganese	anr			
Molybdenum				
Nickel	anr			
Palladium				
Platinum				
Potassium	anr			
Selenium	anr			
Silicon				
Silver	anr			
Sodium	anr			
Sulfur				
Strontium				
Thallium	anr			
Tin				
Titanium				
Tungsten				

SERIAL DILUTION RESULTS SUMMARY

Login Number: MC32872
 Account: WSPVAR - WSP Environmental & Energy
 Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

QC Batch ID: MP23493
 Matrix Type: AQUEOUS

Methods: SW846 6010C
 Units: ug/l

Prep Date: 08/15/14

Metal	MC32825-4 Original SDL 1:5	%DIF	QC Limits

Vanadium anr

Zinc anr

Zirconium

Associated samples MP23493: MC32872-1, MC32872-2

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

6.2.4
6

Metals Analysis

Raw Data

7

Sample Name: STD1 Acquired: 8/18/2014 9:44:45 Type: Cal
Method: Accutest2(v113) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-0.0014	-0.0003	-0.0009	-0.0000	.0013	-0.0007	.0000	.0011	.0055
Stddev	.0000	.0001	.0001	.0000	.0000	.0002	.0000	.0000	.0001
%RSD	.8711	43.96	12.11	36.46	.6660	27.99	135.0	1.953	2.738
#1	-0.0014	-0.0004	-0.0010	-0.0000	.0013	-0.0009	.0000	.0011	.0056
#2	-0.0014	-0.0002	-0.0008	-0.0001	.0013	-0.0006	.0001	.0010	.0054

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0017	-0.0009	.0000	.0022	.0003	.0000	.0012	-0.0000	.0001
Stddev	.0003	.0000	.0000	.0001	.0001	.0000	.0004	.0000	.0000
%RSD	20.19	4.955	121.8	3.876	20.35	58.09	31.24	75.09	.0403
#1	.0019	-0.0009	.0000	.0022	.0003	.0000	.0015	-0.0000	.0001
#2	.0014	-0.0010	.0000	.0021	.0002	.0001	.0009	-0.0001	.0001

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0008	.0015	-0.0013	-0.0010	-0.0002	-0.0002	-0.0003	.0012	.0012
Stddev	.0000	.0001	.0000	.0001	.0000	.0000	.0001	.0000	.0002
%RSD	5.443	7.342	3.223	13.48	15.57	2.628	24.49	3.079	17.18
#1	.0008	.0014	-0.0014	-0.0011	-0.0002	-0.0003	-0.0003	.0011	.0010
#2	.0007	.0015	-0.0013	-0.0009	-0.0003	-0.0002	-0.0002	.0012	.0013

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0168	-0.0001	-0.0026	-0.0003	-0.0020	.0001	.0042	.0003	-0.0002
Stddev	.0002	.0000	.0002	.0001	.0001	.0000	.0001	.0001	.0000
%RSD	1.042	42.94	7.675	19.58	3.482	2.323	2.735	31.14	.4909
#1	.0167	-0.0001	-0.0028	-0.0004	-0.0019	.0001	.0041	.0004	-0.0002
#2	.0169	-0.0001	-0.0025	-0.0003	-0.0020	.0001	.0043	.0003	-0.0002

Raw Data MA17448 page 1 of 58

Sample Name: STD2 Acquired: 8/18/2014 9:50:26 Type: Cal
Method: Accutest2(v113) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0866	1.050	.8244	.1409	1.639	12.28	9.959	1.496	1.136
Stddev	.0001	.002	.0022	.0002	.006	.03	.014	.004	.004
%RSD	.1608	.1702	.2653	.1115	.3444	.2554	.1407	.2376	.3171
#1	.0865	1.052	.8229	.1408	1.635	12.30	9.969	1.494	1.139
#2	.0867	1.049	.8260	.1410	1.643	12.26	9.949	1.499	1.134

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6.667	2.680	.3804	1.404	1.014	.5684	3.605	.0879	2.884
Stddev	.012	.002	.0000	.000	.001	.0021	.006	.0005	.001
%RSD	.1778	.0580	.0077	.0072	.1107	.3681	.1546	.6090	.0265
#1	6.658	2.679	.3804	1.404	1.015	.5698	3.609	.0882	2.885
#2	6.675	2.682	.3804	1.404	1.013	.5669	3.601	.0875	2.884

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4.627	2.860	2.135	.8346	.3038	.0435	.5138	1.231	.6914
Stddev	.025	.001	.001	.0013	.0001	.0000	.0014	.003	.0016
%RSD	.5414	.0412	.0232	.1546	.0393	.0638	.2669	.2000	.2368
#1	4.609	2.861	2.135	.8337	.3037	.0435	.5128	1.229	.6902
#2	4.645	2.859	2.136	.8355	.3039	.0435	.5147	1.233	.6926

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.700	.9486	22.05	.7236	.3243	.5792	1.792	5.034	1.742
Stddev	.005	.0023	.27	.0000	.0004	.0001	.009	.003	.002
%RSD	.2697	.2449	1.226	.0067	.1296	.0170	.4835	.0531	.0833
#1	1.696	.9469	21.86	.7236	.3240	.5792	1.786	5.035	1.741
#2	1.703	.9502	22.24	.7235	.3246	.5791	1.798	5.032	1.743

Raw Data MA17448 page 3 of 58

Sample Name: STD1 Acquired: 8/18/2014 9:44:45 Type: Cal
Method: Accutest2(v113) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4916.0	2559.3	105130.	15420.
Stddev	31.2	7.0	218.	11.
%RSD	.63558	.27277	.20775	.07379
#1	4893.9	2554.3	104980.	15428.
#2	4938.1	2564.2	105290.	15412.

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Sample Name: STD2 Acquired: 8/18/2014 9:50:26 Type: Cal
Method: Accutest2(v113) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5045.0	2543.3	106200.	16462.
Stddev	.8	3.7	94.	23.
%RSD	.01616	.14511	.08812	.14002
#1	5044.4	2545.9	106140.	16445.
#2	5045.6	2540.7	106270.	16478.

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Sample Name: ICV		Acquired: 8/18/2014 9:55:57		Type: QC					
Method: Accutest2(v113)		Mode: CONC		Corr. Factor: 1.000000					
User: admin		Custom ID1:		Custom ID2:					
Comment:				Custom ID3:					
Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	5.183	15.79	3.022	3.040	3.137	3.062	3.036	3.020	18.38
Stdev	.0005	.03	.003	.005	.002	.006	.005	.001	.02
%RSD	.0988	.1773	.1091	.1501	.0715	.1967	.1814	.0252	.1088
#1	5.187	15.81	3.019	3.037	3.135	3.066	3.040	3.025	18.40
#2	5.179	15.77	3.024	3.043	3.138	3.057	3.032	3.024	18.38

[illegible]

	Cd2288	Cd2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Elem Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.060	2.986	3.068	2.962	18.47	15.40	2.980	18.73	3.074
Stddev	.003	.004	.009	.000	.05	.01	.007	.09	.004
%RSD	.0904	.1442	.3034	.0105	.2772	.0714	.2322	.4740	.1237
#1	3.058	2.983	3.062	2.962	18.51	15.40	2.985	18.79	3.072
#2	3.062	2.989	3.075	2.963	18.43	15.39	2.975	18.67	3.077

[illegible]

Elem Units	Mo2020	Na5895	NI2136	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Avg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	2.975	15.52	2.986	3.014	3.023	3.093	3.059	3.066	3.017
Stdev	.008	.06	.004	.004	.004	.008	.005	.002	.002
%RSD	.2831	.4031	.1186	.0418	.1230	.2482	.1738	.0722	.0806
#1	2.969	15.57	2.984	3.013	3.020	3.098	3.055	3.065	3.015
#2	2.981	15.48	2.989	3.015	3.026	3.088	3.062	3.068	3.018

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

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Sample Name: ICV		Acquired: 8/18/2014 9:55:57		Type: QC					
Method: Accutest2(v113)		Mode: CONC		Corr. Factor: 1.000000					
User: admin		Custom ID1:		Custom ID2:					
Comment:				Custom ID3:					
Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Avg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Units	2.869	3.005	3.085	3.041	3.018	3.052	3.030	2.989	3.200
StdDev	.000	.001	.050	.006	.005	.004	.005	.003	.002
%RSD	.0022	.0421	1.610	.2143	.1685	.1465	.1671	.1100	.0566
#1	2.869	3.006	3.120	3.036	3.014	3.049	3.026	2.996	3.198
#2	2.869	3.004	3.050	3.045	3.021	3.055	3.033	3.001	3.201

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4999.7	2528.0	105240.	16181.
Stddev	4	1.5	200.	41.
%RSD	.00753	.06059	.18991	.25257
#1	5000.0	2526.9	105380.	16152.
#2	4999.4	2529.1	105100.	16210.

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Sample Name: ICB Acquired: 8/18/2014 10:02:31 Type: QC
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3177
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0086	.0005	.0010	.0037	-0.0000	.0000	.0002	-0.0000
StdDev	.0001	.0012	.0005	.0001	.0002	.0001	.0000	.0003	.0011
%RSD	25.38	14.20	90.05	11.85	5.468	290.1	54.80	178.0	417.1

[illegible]

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2575
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.001	0.000	-0.001	-0.005	0.011	-0.043	0.013	-0.047	0.000
StdDev	0.002	0.002	0.000	0.005	0.006	0.009	0.005	0.025	0.000
%RSD	345.5	746.2	17.21	100.2	60.37	21.14	41.13	53.69	20.66

#1	-0.0002	-0.0001	-0.0001	-0.0002	.0006	-0.0049	.0016	-0.0029	.000
#2	.0001	.0002	-0.0001	-0.0009	.0015	-0.0036	.0009	-0.0065	.000

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2658	S_1820	Sb2068	Se1961
Elem									
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	0.007	0.056	-0.000	-0.002	0.006	0.016	0.020	-0.001	0.000
Stddev	0.014	0.007	0.001	0.003	0.008	0.017	0.010	0.002	0.000
%RSD	16.05	12.62	825.9	174.5	125.3	109.7	49.51	114.3	13.0
#1	0.097	0.061	0.001	0.000	0.001	0.004	0.027	-0.003	0.000
#2	0.077	0.051	-0.001	-0.003	0.012	0.028	0.013	-0.000	0.000

[illegible]

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Sample Name: ICB Acquired: 8/18/2014 10:02:31 Type: QC
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3350
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.000	0.006	0.000	0.003	0.013	0.001	F 0.162	-0.000	0.011
Stddev	0.003	0.007	0.000	0.002	0.009	0.000	0.011	0.001	0.003
%RSD	1059.0	121.9	90.44	63.64	69.55	4.539	6.611	1805.	4.25

[illegible]

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5004.8	2594.0	10775.0	16536.
Stddev	11.3	5.2	253.	51.
%RSD	.22547	.20136	.23518	.30766

#1	4996.8	2590.3	107570.	16500.
#2	5012.7	2597.7	107930.	16572.

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Sample Name: CCV Acquired: 8/18/2014 10:08:11 Type: QC
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2450	9.803	1.964	1.993	1.941	1.950	1.968	1.943	9.785
Stddev	.0015	.006	.001	.005	.002	.001	.000	.002	.005
%RSD	.5977	.0625	.0485	.2455	.0960	.0557	.0069	.1193	.0465
#1	.2461	9.808	1.965	1.997	1.940	1.951	1.968	1.941	9.789
#2	.2440	9.799	1.963	1.990	1.943	1.949	1.968	1.944	9.782

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass None Chk Pass
Value
Range

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.943	1.976	1.918	1.928	9.970	9.639	1.953	9.655	1.965
Stddev	.001	.000	.006	.001	.006	.016	.000	.020	.006
%RSD	.0669	.0172	.3267	.0363	.0620	.1694	.0078	.2098	.3132
#1	1.942	1.976	1.923	1.928	9.966	9.651	1.952	9.641	1.970
#2	1.944	1.975	1.914	1.927	9.975	9.628	1.953	9.669	1.961

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.962	9.768	1.991	1.962	1.907	1.968	1.950	1.943	1.950
Stddev	.005	.009	.001	.001	.002	.007	.001	.003	.001
%RSD	.2765	.0927	.0244	.0408	.0885	.3748	.0669	.1405	.0328
#1	1.958	9.774	1.992	1.961	1.908	1.974	1.951	1.945	1.950
#2	1.966	9.762	1.991	1.962	1.905	1.963	1.949	1.941	1.951

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

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Sample Name: CCV Acquired: 8/18/2014 10:08:11 Type: QC
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.976	1.991	2.024	1.930	1.958	1.941	1.919	1.970	1.960
Stddev	.001	.001	.001	.005	.003	.003	.003	.001	.004
%RSD	.0665	.0334	.0450	.2524	.1616	.1608	.1750	.0317	.2106
#1	1.975	1.990	2.025	1.933	1.960	1.944	1.917	1.969	1.963
#2	1.977	1.991	2.024	1.926	1.956	1.939	1.921	1.970	1.957

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5073.2	2583.5	107940.	16514.
Stddev	2.9	3.9	535.	19.
%RSD	.05742	.15037	.49560	.11368
#1	5075.3	2586.3	107570.	16501.
#2	5071.2	2580.8	108320.	16527.

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Sample Name: CCB Acquired: 8/18/2014 10:13:36 Type: QC
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	.0102	-.0003	.0007	.0039	.0001	.0000	-.0000	-.0019
Stddev	.0001	.0047	.0002	.0001	.0007	.0001	.0000	.0006	.0015
%RSD	29.34	46.43	76.59	15.94	19.14	201.0	90.23	17880.	82.14
#1	.0006	.0136	-.0005	.0006	.0044	.0002	.0000	-.0004	-.0030
#2	.0004	.0069	-.0001	.0007	.0034	-.0000	.0000	.0004	-.0008

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0004	-.0003	-.0000	.0005	.0071	.0012	.0129	.0001
Stddev	.0000	.0001	.0002	.0000	.0009	.0097	.0001	.0027	.0000
%RSD	23.40	36.42	61.17	21.06	171.6	136.9	9.323	21.16	8.598
#1	.0002	.0003	-.0002	-.0000	.0011	.0140	.0012	.0148	.0001
#2	.0002	.0005	-.0004	-.0000	-.0001	.0002	.0013	.0110	.0001

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0063	.0027	.0001	.0001	.0011	-.0001	.0010	.0003	.0005
Stddev	.0011	.0014	.0002	.0004	.0002	.0022	.0015	.0002	.0003
%RSD	17.21	52.31	150.8	308.3	18.76	344.1	160.1	70.90	71.26
#1	.0070	.0037	.0003	.0004	.0012	.0015	.0020	.0002	.0007
#2	.0055	.0017	-.0000	-.0001	.0009	-.0016	-.0001	.0005	.0002

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

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Sample Name: CCB Acquired: 8/18/2014 10:13:36 Type: QC
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010	.0010	.0001	.0001	.0002	.0003	F .0124	.0002	.0015
Stddev	.0004	.0002	.0000	.0001	.0004	.0001	.0013	.0000	.0001
%RSD	36.72	17.55	54.64	76.17	151.1	34.08	10.19	24.39	5.694
#1	.0007	.0008	.0001	.0001	.0005	.0003	.0133	.0001	.0015
#2	.0012	.0011	.0001	.0002	.0000	.0004	.0115	.0002	.0014

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Fail Chk Pass Chk Pass
High Limit
Low Limit

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4986.1	2578.3	107380.	16296.
Stddev	4.1	1.4	173.	43.
%RSD	.08290	.05386	.16067	.26110
#1	4983.2	2577.3	107250.	16266.
#2	4989.1	2579.3	107500.	16326.

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Sample Name: CRI Acquired: 8/18/2014 10:19:17 Type: QC
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0052	.2087	.0046	.0496	.1010	.0496	.0040	.0490	4.976
Stddev	.0001	.0015	.0001	.0004	.0001	.0002	.0000	.0007	.015
%RSD	2.254	.7255	1.735	.8238	.1406	.3362	.4115	1.332	.3034
#1	.0053	.2077	.0046	.0499	.1011	.0497	.0040	.0485	4.986
#2	.0052	.2098	.0045	.0493	.1009	.0495	.0040	.0495	4.965

Check ? Chk Pass Chk Pass Chk Pass None Chk Pass Chk Pass Chk Pass None Chk Pass
Value
Range

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0039	.0519	.0103	.0239	.1038	4.954	.4890	4.991	.0157
Stddev	.0001	.0001	.0002	.0004	.0000	.011	.0014	.014	.0001
%RSD	3.799	.1131	1.691	1.527	.0255	.2201	.2889	.2735	.8187
#1	.0040	.0519	.0104	.0242	.1038	4.946	.4900	5.001	.0158
#2	.0038	.0519	.0102	.0236	.1038	4.962	.4880	4.982	.0156

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass None Chk Pass Chk Pass
Value
Range

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1046	4.898	.0424	.0044	.0493	.0512	.0525	.0062	.0114
Stddev	.0003	.003	.0001	.0011	.0011	.0013	.0008	.0004	.0005
%RSD	.2897	.0515	.2292	25.04	2.235	2.502	1.512	6.239	4.460
#1	.1044	4.897	.0424	.0036	.0485	.0521	.0531	.0060	.0110
#2	.1048	4.900	.0423	.0052	.0501	.0503	.0519	.0065	.0117

Check ? Chk Pass Chk Pass Chk Pass Chk Pass None None None Chk Pass Chk Pass
Value
Range

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Sample Name: CRI Acquired: 8/18/2014 10:19:17 Type: QC
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1086	.0995	.0102	.0497	.0040	.0103	.1085	.0207	.0542
Stddev	.0009	.0004	.0000	.0003	.0010	.0002	.0005	.0002	.0002
%RSD	.8165	.4465	.4831	.6961	24.24	1.522	.4494	1.193	.3359
#1	.1092	.0998	.0102	.0499	.0047	.0102	.1082	.0205	.0544
#2	.1080	.0992	.0103	.0494	.0033	.0104	.1089	.0209	.0541

Check ? None Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass None Chk Pass None
Value
Range

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4996.8	2572.5	106920.	16499.
Stddev	5.4	1.0	150.	37.
%RSD	.10871	.03814	.14032	.22154
#1	4993.0	2573.2	106810.	16473.
#2	5000.7	2571.8	107030.	16524.

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Sample Name: ICSEA Acquired: 8/18/2014 10:24:53 Type: QC
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	521.5	.0007	-.0009	.0020	.0005	-.0000	.0023	458.8
Stddev	.0002	4.3	.0020	.0004	.0003	.0001	.0000	.0009	.6
%RSD	137.7	.8169	297.3	48.48	16.64	15.51	176.4	39.83	.1264
#1	.0002	518.5	-.0007	-.0012	.0018	.0004	-.0000	.0017	459.2
#2	.0000	524.5	.0021	-.0006	.0023	.0005	.0000	.0030	458.4

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0000	.0009	.0002	-.0002	183.8	-.1605	.0076	524.2	-.0001
Stddev	.0000	.0001	.0002	.0001	.0002	.0002	.0006	.5	.0000
%RSD	94.91	7.441	142.8	66.78	.0887	.1333	7.924	.0924	.7169
#1	-.0000	.0009	-.0000	-.0003	183.9	-.1607	.0072	524.6	-.0001
#2	-.0001	.0010	.0003	-.0001	183.7	-.1604	.0080	523.9	-.0001

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass None Chk Pass Chk Pass
High Limit
Low Limit

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0024	.0862	.0000	.0003	-.0002	-.0012	.0492	.0010	-.0010
Stddev	.0004	.0022	.0003	.0003	.0005	.0015	.0009	.0008	.0004
%RSD	15.70	2.516	4619.	89.33	252.9	123.7	1.910	80.81	40.40
#1	.0021	.0846	.0002	.0001	.0002	-.0002	.0499	.0004	-.0007
#2	.0027	.0877	-.0002	.0005	-.0006	-.0023	.0485	.0016	-.0013

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

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Sample Name: ICSEA Acquired: 8/18/2014 10:24:53 Type: QC
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0240	.0028	.0013	.0004	-.0007	.0010	.0225	.0001	.0017
Stddev	.0010	.0006	.0000	.0000	.0010	.0002	.0012	.0000	.0000
%RSD	3.979	20.23	1.414	9.288	132.5	14.48	5.247	.0801	1.291
#1	.0234	.0032	.0013	.0004	-.0014	.0012	.0233	.0001	.0017
#2	.0247	.0024	.0013	.0004	-.0000	.0009	.0216	.0001	.0017

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4738.7	2308.3	97801.	15466.
Stddev	5.1	2.8	319.	5.
%RSD	.10784	.12180	.32707	.03186
#1	4742.3	2310.3	97826.	15470.
#2	4735.1	2306.3	97375.	15463.

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Sample Name: ICSAB Acquired: 8/18/2014 10:30:36 Type: QC
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.031	520.9	2.020	4972	1.061	4799	4786	5293	457.9
Stddev	.001	3.9	.004	.0017	.000	.0008	.0010	.0005	8.2
%RSD	.1043	.7500	.1837	.3423	.0230	.1578	.2102	.1021	1.800
#1	1.032	523.7	2.023	4960	1.061	4804	4779	5290	452.0
#2	1.030	518.2	2.017	4984	1.061	4794	4793	5297	463.7

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass None Chk Pass
High Limit
Low Limit

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.044	4621	4605	5236	180.9	-1452	5059	521.2	4795
Stddev	.002	.0005	.0012	.0016	.3	.0239	.0010	1.9	.0003
%RSD	.2121	.1114	.2702	.3041	.1654	16.47	.1915	.3718	.0538
#1	1.046	4617	4596	5247	180.7	-1621	5066	519.9	4793
#2	1.043	4624	4614	5225	181.1	-1283	5053	522.6	4797

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass None Chk Pass Chk Pass
High Limit
Low Limit

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9625	0848	9013	9368	5504	4993	5779	2101	2021
Stddev	.0023	.0001	.0002	.0019	.0014	.0023	.0009	.004	.001
%RSD	.2395	.1594	.0232	.1994	.2614	.4615	.1546	.2082	.0654
#1	9609	0849	9014	9381	5514	5010	5785	2105	2022
#2	9642	0847	9011	9355	5494	4977	5773	2098	2020

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

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Sample Name: ICSAB Acquired: 8/18/2014 10:30:36 Type: QC
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.109	1.006	9871	4777	1.947	4771	1.951	9027	3534
Stddev	.001	.001	.0009	.0005	.002	.0002	.003	.0002	.0073
%RSD	.0400	.1041	.0949	.0989	.1079	.0340	.1330	.0232	2.057
#1	2.109	1.006	9878	4774	1.949	4773	1.949	9028	3483
#2	2.108	1.005	9865	4781	1.946	4770	1.953	9025	3586

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass None
High Limit
Low Limit

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4750.3	2313.2	97400.	15696.
Stddev	6.2	4.9	115.	54.
%RSD	.13123	.21345	.11776	.34396
#1	4745.9	2309.7	97481.	15734.
#2	4754.7	2316.7	97319.	15657.

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Sample Name: MP23493-B1 Acquired: 8/18/2014 10:36:12 Type: Unk
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1788	2054	5036	-0004	1022	1974	5091	0004	25.32
Stddev	.0003	.004	.0008	.0006	.002	.003	.0002	.0004	.01
%RSD	.1918	.1901	.1527	142.8	.1822	.1443	.0411	101.1	.0248
#1	1785	2057	5030	-0008	1021	1976	5090	0007	25.33
#2	1790	2051	5041	0000	1024	1972	5092	0001	25.32

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5165	4928	4984	4764	2062	25.24	0006	25.37	5115
Stddev	.0016	.0000	.0008	.0006	.001	.00	.0000	.10	.0001
%RSD	.3152	.0034	.1557	.1225	.0245	.0076	2.251	.3877	.0225
#1	5154	4928	4990	4768	2062	25.24	0007	25.30	5116
#2	5177	4929	4979	4760	2061	25.24	0006	25.44	5114

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4943	26.00	5019	1.012	-0004	0021	0054	5034	5003
Stddev	.0009	.04	.0009	.001	.0002	.0023	.0012	.0001	.0002
%RSD	.1916	.1634	.1792	.0911	45.20	108.1	22.74	.0291	.0480
#1	4937	26.03	5013	1.013	-0005	0038	0063	5032	5005
#2	4950	25.97	5026	1.011	-0002	0005	0045	5035	5002

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	0684	1.027	5125	4985	5093	5016	0230	5078	1143
Stddev	.0002	.002	.0008	.0001	.0004	.0000	.0028	.0011	.0161
%RSD	.3612	.2022	.1623	.0267	.0728	.0035	12.30	.2208	14.13
#1	0686	1.025	5131	4985	5090	5017	0250	5070	1257
#2	0682	1.028	5120	4986	5096	5016	0210	5086	1029

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Sample Name: MP23493-B1 Acquired: 8/18/2014 10:36:12 Type: Unk
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4973.9	2520.9	106090.	16392.
Stddev	9.2	6.0	21.	31.
%RSD	.18531	.23856	.01983	.18762
#1	4980.4	2525.2	106070.	16370.
#2	4967.4	2516.7	106100.	16413.

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Sample Name: MP23493-MB1 Acquired: 8/18/2014 10:41:39 Type: Unk
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0152	-.0007	-.0004	.0034	.0002	-.0001	.0008	.0164
Stddev	.0001	.0009	.0011	.0005	.0004	.0001	.0000	.0007	.0019
%RSD	559.8	5.696	171.2	124.0	11.68	60.36	16.20	89.01	11.53
#1	-.0000	.0158	-.0015	-.0001	.0037	.0001	-.0001	.0013	.0177
#2	.0001	.0146	.0001	-.0008	.0032	.0003	-.0001	.0003	.0150

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	-.0001	.0003	.0001	.0112	.0091	.0008	-.0061	.0004
Stddev	.0000	.0001	.0002	.0001	.0002	.0263	.0004	.0231	.0000
%RSD	24.31	92.79	75.47	84.12	2.146	288.1	48.52	380.3	6.265
#1	.0001	-.0000	.0001	.0001	.0114	.0278	.0011	-.0224	.0004
#2	.0002	-.0002	.0005	.0000	.0111	-.0095	.0005	.0102	.0005

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0022	.0206	-.0003	.0002	.0006	.0010	.0057	.0017	.0007
Stddev	.0002	.0041	.0001	.0006	.0005	.0023	.0011	.0008	.0003
%RSD	7.642	19.93	42.32	259.9	82.58	223.4	19.67	47.00	37.85
#1	.0024	.0235	-.0002	.0007	.0009	.0027	.0065	.0023	.0009
#2	.0021	.0177	-.0004	-.0002	.0002	-.0006	.0049	.0011	.0005

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0505	.0008	.0001	-.0000	-.0030	.0001	.0120	.0011	.0005
Stddev	.0007	.0007	.0000	.0004	.0000	.0002	.0002	.0002	.0001
%RSD	1.476	81.47	31.70	5602.	.5339	108.6	1.287	15.20	26.94
#1	.0510	.0013	.0000	-.0003	-.0029	.0003	.0121	.0012	.0006
#2	.0499	.0003	.0001	.0003	-.0030	.0000	.0119	.0010	.0004

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Sample Name: MP23493-MB1 Acquired: 8/18/2014 10:41:39 Type: Unk
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4902.2	2525.7	106440.	16451.
Stddev	25.9	14.6	689.	3.
%RSD	.52912	.57637	.64761	.01823

#1	4883.9	2515.4	105950.	16449.
#2	4920.6	2536.0	106920.	16453.

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Sample Name: MP23493-S1 Acquired: 8/18/2014 10:47:20 Type: Unk
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2382	2.207	.4945	-.0013	1.009	2.051	.6026	.0006	24.98
Stddev	.0004	.013	.0001	.0001	.002	.002	.0009	.0004	.10
%RSD	.1867	.5951	.0239	4.778	.1481	.1001	.1445	65.86	4063
#1	.2379	2.198	.4946	-.0012	1.008	2.053	.6019	.0003	24.90
#2	.2385	2.217	.4944	-.0013	1.010	2.050	.6032	.0008	25.05

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5113	.6313	.4952	.6104	2.026	25.13	.0008	24.98	.5083
Stddev	.0001	.0003	.0010	.0001	.009	.03	.0002	.07	.0002
%RSD	.0117	.0405	.2077	.0176	.4398	.1138	28.58	.2792	.0341
#1	.5113	.6311	.4945	.6105	2.020	25.15	.0009	24.93	.5084
#2	.5114	.6315	.4959	.6103	2.033	25.11	.0006	25.03	.5082

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4940	25.86	.5881	1.104	-.0003	.0022	.0597	.6744	.4805
Stddev	.0009	.01	.0002	.001	.0005	.0019	.0003	.0018	.0007
%RSD	.1748	.0272	.0268	.0616	208.8	83.41	.5388	.2629	.1434
#1	.4934	25.85	.5883	1.103	-.0006	.0036	.0595	.6757	.4800
#2	.4946	25.86	.5880	1.104	.0001	.0009	.0600	.6732	.4809

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0560	1.022	.5107	.4969	.6639	.4988	.0236	.5032	.0274
Stddev	.0001	.001	.0004	.0002	.0037	.0008	.0002	.0012	.0018
%RSD	.2280	.0441	.0713	.0460	.5605	.1588	.6763	.2296	6.453
#1	.0559	1.023	.5109	.4970	.6613	.4982	.0237	.5024	.0286
#2	.0561	1.022	.5104	.4967	.6665	.4993	.0235	.5040	.0261

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Sample Name: MP23493-S1 Acquired: 8/18/2014 10:47:20 Type: Unk
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4971.5	2514.8	105850.	16495.
Stddev	5.8	1.8	95.	96.
%RSD	.11689	.07126	.08985	.58043

#1	4975.6	2516.0	105920.	16563.
#2	4967.4	2513.5	105790.	16427.

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Sample Name: MP23493-S2 Acquired: 8/18/2014 10:52:48 Type: Unk
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2379	2.191	.4923	-0.020	1.008	2.034	.5979	.0008	24.90
Stddev	.0010	.002	.0011	.0000	.002	.004	.0008	.0001	.01
%RSD	.4260	.1018	.2175	1.502	.1491	.2135	.1416	16.39	.0584
#1	.2372	2.190	.4916	-.0019	1.007	2.031	.5973	.0007	24.89
#2	.2386	2.193	.4931	-.0020	1.009	2.037	.5985	.0009	24.91

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5138	.6301	.4949	.6076	2.003	25.00	.0012	24.85	.5058
Stddev	.0007	.0013	.0026	.0003	.010	.06	.0000	.07	.0025
%RSD	.1430	.2072	.5236	.0549	.4857	.2342	1.380	.2882	.4910
#1	.5133	.6292	.4931	.6078	1.996	24.95	.0012	24.80	.5040
#2	.5144	.6310	.4968	.6073	2.010	25.04	.0012	24.90	.5075

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4912	25.66	.5859	1.099	.0001	-0.0006	.0598	.6773	.4799
Stddev	.0010	.03	.0013	.002	.0001	.0012	.0006	.0002	.0003
%RSD	.1977	.1274	.2149	.1776	104.4	187.5	.9713	.0317	.0725
#1	.4905	25.64	.5850	1.098	.0002	-.0015	.0602	.6772	.4801
#2	.4918	25.69	.5868	1.101	.0000	.0002	.0594	.6775	.4796

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0554	1.014	.5050	.4951	.6639	.4970	.0197	.5027	.0101
Stddev	.0003	.000	.0016	.0020	.0042	.0024	.0001	.0023	.0003
%RSD	.6139	.0319	.3117	.3991	.6332	.4828	.6884	.4504	2.716
#1	.0557	1.013	.5039	.4937	.6610	.4953	.0196	.5011	.0103
#2	.0552	1.014	.5061	.4965	.6669	.4987	.0198	.5043	.0099

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Sample Name: MP23493-S2 Acquired: 8/18/2014 10:52:48 Type: Unk
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4937.7	2498.9	105100.	16235.
Stddev	.8	1.8	446.	19.
%RSD	.01592	.07066	.42477	.11951
#1	4938.3	2497.7	105420.	16222.
#2	4937.1	2500.2	104790.	16249.

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Sample Name: MC32825-4 Acquired: 8/18/2014 10:58:16 Type: Unk
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0631	.1923	-0.007	-0.011	.0038	.0803	.0991	.0010	.0181
Stddev	.0003	.0038	.0000	.0000	.0004	.0001	.0004	.0001	.0002
%RSD	.5507	1.987	5.386	1.701	10.55	.1648	.4443	14.97	1.009
#1	.0628	.1896	-.0007	-.0010	.0041	.0804	.0994	.0009	.0182
#2	.0633	.1950	-.0007	-.0011	.0035	.0802	.0988	.0011	.0180

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.1488	.0000	.1330	.0086	-0.1111	.0009	.0056	.0002
Stddev	.0000	.0021	.0000	.0006	.0002	.0015	.0001	.0075	.0000
%RSD	18.66	1.414	110.2	.4660	2.547	13.47	6.268	133.4	7.002
#1	.0002	.1473	.0000	.1326	.0085	-.0101	.0009	.0003	.0003
#2	.0002	.1503	.0001	.1334	.0088	-.0122	.0009	.0109	.0002

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0020	.0321	.0949	.1018	.0004	-0.0008	.0596	.1794	.0011
Stddev	.0003	.0016	.0014	.0012	.0001	.0021	.0004	.0028	.0004
%RSD	13.78	4.923	1.429	1.194	17.69	253.2	.5938	1.584	31.83
#1	.0022	.0310	.0939	.1009	.0005	.0006	.0594	.1774	.0014
#2	.0018	.0332	.0958	.1027	.0004	-.0023	.0599	.1814	.0009

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0430	.0016	.0000	-0.0000	.1558	.0002	.0153	.0028	.0003
Stddev	.0008	.0001	.0000	.0000	.0013	.0001	.0004	.0001	.0000
%RSD	1.902	4.165	22.28	89.40	.8565	39.56	2.895	4.317	7.499
#1	.0424	.0017	.0001	-.0000	.1548	.0002	.0156	.0027	.0003
#2	.0436	.0016	.0000	-.0000	.1567	.0003	.0150	.0029	.0004

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Sample Name: MC32825-4 Acquired: 8/18/2014 10:58:16 Type: Unk
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4947.8	2544.5	106870.	16600.
Stddev	31.5	19.0	53.	14.
%RSD	.63757	.74587	.04940	.08137
#1	4970.1	2557.9	106840.	16609.
#2	4925.5	2531.1	106910.	16590.

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Sample Name: MP23493-SD1 Acquired: 8/18/2014 11:03:55 Type: Unk
Method: Accutest2(v113) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0649	.2195	-.0015	-.0031	.0072	.0827	.1009	-.0007	.0563
Stddev	.0021	.0226	.0022	.0023	.0011	.0003	.0001	.0043	.0109
%RSD	3.294	10.31	140.6	74.57	15.50	.3864	.0662	611.5	19.35
#1	.0664	.2035	-.0000	-.0015	.0080	.0829	.1009	-.0037	.0486
#2	.0634	.2355	-.0031	-.0048	.0064	.0825	.1008	.0023	.0640

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.1505	-.0005	.1359	.0146	.0304	.0046	.0363	.0005
Stddev	.0002	.0005	.0000	.0009	.0082	.0153	.0002	.0602	.0001
%RSD	54.42	.2996	9.034	.6827	56.02	50.48	3.809	165.9	24.45
#1	.0004	.1502	-.0005	.1366	.0203	.0195	.0045	-.0063	.0004
#2	.0002	.1508	-.0006	.1352	.0088	.0412	.0047	.0789	.0005

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0023	.0567	.0984	.1042	.0008	.0053	.0660	.1866	.0047
Stddev	.0004	.0020	.0003	.0019	.0018	.0164	.0066	.0011	.0001
%RSD	16.08	3.544	.3337	1.868	227.7	312.7	9.961	.5860	1.863
#1	.0026	.0581	.0987	.1056	.0021	.0169	.0707	.1858	.0048
#2	.0020	.0553	.0982	.1028	-.0005	-.0064	.0614	.1873	.0047

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0534	.0065	-.0000	-.0004	.1527	.0001	.0203	.0062	.0011
Stddev	.0022	.0017	.0001	.0002	.0009	.0020	.0049	.0003	.0006
%RSD	4.106	26.03	241.2	46.93	.5882	2794.	24.42	5.372	53.28
#1	.0550	.0076	.0000	-.0006	.1534	-.0014	.0238	.0064	.0015
#2	.0519	.0053	-.0001	-.0003	.1521	.0015	.0168	.0059	.0007

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Sample Name: MP23493-SD1 Acquired: 8/18/2014 11:03:55 Type: Unk
Method: Accutest2(v113) Mode: CONC Corr. Factor: 5.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4955.2	2559.2	106550.	16332.
Stddev	2.0	1.3	355.	45.
%RSD	.03946	.05111	.33281	.27856
#1	4953.8	2558.3	106800.	16300.
#2	4956.6	2560.1	106300.	16364.

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Sample Name: MP23493-B2CONF Acquired: 8/18/2014 11:09:35 Type: Unk
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1790	2.046	.5089	-.0012	1.033	1.986	.5123	.0007	25.40
Stddev	.0006	.029	.0004	.0003	.002	.024	.0069	.0001	.32
%RSD	.3283	1.441	.0789	25.78	.1615	1.198	1.350	8.413	1.252
#1	.1794	2.067	.5092	-.0010	1.032	2.003	.5172	.0007	25.62
#2	.1786	2.025	.5086	-.0014	1.034	1.970	.5074	.0007	25.17

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5197	.4960	.5018	.4788	2.054	25.43	.0005	25.39	.5143
Stddev	.0005	.0010	.0026	.0042	.028	.33	.0003	.32	.0026
%RSD	.0883	.1944	.5104	.8759	1.368	1.294	60.02	1.257	.5107
#1	.5200	.4967	.5035	.4818	2.074	25.66	.0007	25.61	.5161
#2	.5194	.4953	.4998	.4759	2.034	25.19	.0003	25.16	.5124

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4962	26.05	.5031	1.018	.0004	-.0004	.0059	.5087	.5080
Stddev	.0007	.31	.0005	.000	.0002	.0014	.0008	.0004	.0020
%RSD	.1311	1.187	.1093	.0006	49.92	347.5	13.06	.0870	.3892
#1	.4957	26.27	.5035	1.018	.0005	-.0014	.0054	.5090	.5074
#2	.4967	25.84	.5027	1.018	.0002	.0006	.0065	.5084	.5046

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0646	1.030	.5132	.5021	.5159	.5030	.0126	.5114	.0060
Stddev	.0001	.001	.0066	.0027	.0008	.0032	.0006	.0005	.0003
%RSD	.1286	.0986	1.290	.5447	.1464	.6309	5.055	.0892	5.406
#1	.0646	1.031	.5179	.5041	.5153	.5053	.0130	.5117	.0062
#2	.0647	1.029	.5085	.5002	.5164	.5008	.0121	.5111	.0057

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Sample Name: MP23493-B2CONF Acquired: 8/18/2014 11:09:35 Type: Unk
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4969.7	2513.2	105630.	16341.
Stddev	6.6	2.4	293.	207.
%RSD	.13203	.09425	.27772	1.2692
#1	4965.1	2511.5	105420.	16194.
#2	4974.4	2514.9	105830.	16487.

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Sample Name: CCV Acquired: 8/18/2014 11:15:02 Type: QC
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2505	9.849	1.982	1.993	1.972	1.972	1.960	1.946	9.880
Stddev	.0004	.023	.001	.005	.002	.002	.002	.002	.015
%RSD	.1725	.2372	.0570	.2319	.0987	.0758	.1228	.1069	.1497
#1	.2502	9.833	1.981	1.990	1.971	1.971	1.959	1.944	9.890
#2	.2508	9.866	1.982	1.997	1.973	1.974	1.962	1.947	9.869

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value Range

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.982	1.983	1.968	1.941	9.937	9.814	1.955	9.651	1.992
Stddev	.001	.003	.002	.002	.011	.009	.004	.074	.002
%RSD	.0492	.1662	.1151	.0837	.1083	.0969	.1814	.7623	.0777
#1	1.983	1.980	1.967	1.940	9.944	9.808	1.953	9.703	1.991
#2	1.982	1.985	1.970	1.942	9.929	9.821	1.958	9.599	1.993

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value Range

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.971	9.810	1.980	1.962	1.937	1.993	1.986	1.962	1.970
Stddev	.008	.007	.002	.000	.000	.002	.005	.004	.000
%RSD	.4206	.0741	.1210	.0159	.0187	.0764	.2569	.1885	.0158
#1	1.965	9.805	1.978	1.961	1.937	1.994	1.983	1.965	1.970
#2	1.977	9.815	1.982	1.962	1.938	1.992	1.990	1.959	1.970

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value Range

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Sample Name: CCV Acquired: 8/18/2014 11:15:02 Type: QC
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.979	1.976	2.009	1.969	1.967	1.959	1.931	1.986	1.948
Stddev	.003	.002	.001	.002	.002	.002	.009	.004	.008
%RSD	.1514	.1145	.0554	.0779	.1245	.0906	.4549	.1753	.3940
#1	1.977	1.975	2.009	1.968	1.965	1.958	1.924	1.984	1.943
#2	1.981	1.978	2.010	1.970	1.969	1.960	1.937	1.989	1.954

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value Range

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5041.3	2560.5	105870.	16383.
Stddev	4.1	1.5	72.	16.
%RSD	.08039	.05727	.06816	.09835
#1	5038.5	2559.5	105920.	16395.
#2	5044.2	2561.6	105820.	16372.

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Sample Name: CCB Acquired: 8/18/2014 11:20:27 Type: QC
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0097	.0007	.0007	.0032	.0001	-0.0000	.0006	-.0015
Stddev	.0002	.0001	.0003	.0001	.0001	.0001	.0000	.0002	.0023
%RSD	62.35	1.486	39.83	11.54	1.779	94.83	100.5	37.07	149.3
#1	.0002	.0098	.0005	.0008	.0032	.0000	-0.0001	.0005	-.0032
#2	.0005	.0096	.0008	.0007	.0033	.0001	-0.0000	.0008	.0001

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit Low Limit

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0004	-0.003	-0.002	.0017	-0.0150	.0013	-0.0097	.0000
Stddev	.0000	.0001	.0001	.0001	.0001	.0043	.0001	.0157	.0000
%RSD	32.40	14.28	33.54	64.40	5.991	29.04	8.846	161.7	51.85
#1	.0001	.0005	-.0002	-.0001	.0016	-.0180	.0012	.0014	.0000
#2	.0002	.0004	-.0003	-.0003	.0018	-.0119	.0013	-.0208	.0001

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit Low Limit

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0052	.0057	.0000	.0003	.0003	.0026	-0.0005	.0006	-0.0005
Stddev	.0008	.0040	.0001	.0001	.0002	.0001	.0005	.0001	.0008
%RSD	14.92	70.04	520.3	34.29	70.06	5.402	94.45	25.49	148.5
#1	.0057	.0085	-.0000	.0002	.0004	.0025	-.0002	.0005	-.0011
#2	.0046	.0029	.0001	.0004	.0002	.0027	-.0008	.0007	.0000

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit Low Limit

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Sample Name: CCB Acquired: 8/18/2014 11:20:27 Type: QC
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0023	.0009	.0001	.0002	.0011	.0002	.0094	.0001	.0012
Stddev	.0003	.0002	.0000	.0001	.0010	.0001	.0009	.0001	.0000
%RSD	10.85	24.95	27.20	63.42	91.59	72.47	10.01	83.30	.1673
#1	.0025	.0011	.0001	.0001	.0018	.0001	.0100	.0001	.0012
#2	.0021	.0008	.0001	.0003	.0004	.0003	.0087	.0002	.0012

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit Low Limit

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5002.1	2582.2	107580.	16576.
Stddev	13.5	5.7	24.	65.
%RSD	.26993	.22194	.02205	.39444
#1	5011.7	2586.3	107580.	16623.
#2	4992.6	2578.2	107550.	16530.

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Sample Name: MP23485-LC1CONF Acquired: 8/18/2014 11:26:09 Type: Unk
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3536	81.75	1.313	.0005	1.019	2.440	.5606	-.0133	59.47
Stddev	.0009	.08	.002	.0006	.004	.004	.0007	.0006	.06
%RSD	.2583	.0943	.1208	.1167	.3717	.1782	.1233	4.608	.0962
#1	.3543	81.81	1.312	.0009	1.016	2.443	.5611	-.0138	59.51
#2	.3530	81.70	1.314	.0001	1.022	2.437	.5601	-.0129	59.43

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9364	1.036	1.045	.7779	164.0	25.57	.0749	31.33	4.076
Stddev	.0017	.003	.001	.0014	.1	.04	.0001	.05	.007
%RSD	.1860	.2930	.0593	.1864	.0901	.1627	.1041	.1731	.1729
#1	.9352	1.034	1.045	.7769	164.1	25.60	.0749	31.29	4.081
#2	.9377	1.039	1.046	.7789	163.9	25.54	.0750	31.37	4.071

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3978	2.385	.5835	.9981	.0029	-.0055	1.348	.6416	1.733
Stddev	.0015	.007	.0006	.0017	.0000	.0025	.001	.0018	.006
%RSD	.3854	.2821	.1007	.1709	.2801	45.19	.0404	.2832	.3250
#1	.3967	2.390	.5831	.9969	.0029	-.0072	1.349	.6403	1.729
#2	.3989	2.380	.5839	.9993	.0029	-.0037	1.348	.6429	1.737

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	F 18.45	1.066	.5817	3.662	1.266	.7025	.0240	2.106	.0591
Stddev	.04	.002	.0008	.002	.004	.0012	.0004	.005	.0000
%RSD	.1899	.2195	.1394	.0441	.2767	.1675	1.754	.2549	.0120
#1	18.43	1.065	.5823	3.663	1.263	.7034	.0243	2.102	.0591
#2	18.48	1.068	.5811	3.661	1.268	.7017	.0237	2.110	.0591

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Sample Name: MP23485-LC1CONF Acquired: 8/18/2014 11:26:09 Type: Unk
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5141.1	2644.9	110780.	17385.
Stddev	2.1	2.5	134.	8.
%RSD	.04012	.09513	.12131	.04372
#1	5142.5	2646.7	110690.	17380.
#2	5139.6	2643.1	110880.	17391.

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Sample Name: MP23483-LC1CONF Acquired: 8/18/2014 11:31:41 Type: Unk
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3466	78.07	1.299	-.0010	.9727	1.715	.5604	-.0122	59.89
Stddev	.0031	.12	.005	.0008	.0084	.001	.0009	.0011	.30
%RSD	.9050	.1502	.4247	88.34	.8658	.0510	.1561	8.602	.4936
#1	.3488	77.99	1.295	-.0004	.9667	1.714	.5597	-.0115	59.68
#2	.3444	78.15	1.303	-.0015	.9786	1.716	.5610	-.0130	60.09

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9428	1.038	1.033	.7717	163.2	24.83	.0730	31.02	4.009
Stddev	.0058	.004	.012	.0068	.4	.04	.0002	.07	.051
%RSD	.6150	.3855	1.129	.8800	.2637	.1626	.2840	.2406	1.283
#1	.9387	1.035	1.041	.7765	162.8	24.90	.0732	30.96	4.046
#2	.9469	1.041	1.024	.7669	163.5	24.96	.0729	31.07	3.973

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4017	2.385	.5807	.9870	.0048	-.0037	1.414	.7287	1.783
Stddev	.0031	.004	.0025	.0035	.0010	.0023	.012	.0042	.012
%RSD	.7687	.1775	.4224	.3533	21.48	62.60	.8540	.5777	.6546
#1	.3995	2.382	.5789	.9845	.0041	-.0053	1.406	.7257	1.775
#2	.4039	2.388	.5824	.9894	.0056	-.0020	1.423	.7317	1.791

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	16.42	1.056	.5867	3.509	1.261	.6968	.0210	2.089	.0590
Stddev	.08	.005	.0000	.034	.006	.0069	.0008	.010	.0005
%RSD	.4684	.4811	.0069	.9669	.4652	.9965	3.693	.4935	.8726
#1	16.37	1.052	.5867	3.533	1.256	.7017	.0205	2.081	.0594
#2	16.48	1.060	.5868	3.485	1.265	.6919	.0216	2.096	.0587

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Sample Name: MP23483-LC1CONF Acquired: 8/18/2014 11:31:41 Type: Unk
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5145.0	2647.0	110740.	17013.
Stddev	25.3	14.6	626.	116.
%RSD	.49082	.55062	.56512	.68401
#1	5162.8	2657.3	110300.	17096.
#2	5127.1	2636.7	111190.	16931.

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Sample Name: MC32842-1 Acquired: 8/18/2014 11:37:12 Type: Unk
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.000	.3241	.0017	-0.006	.0562	8.045	-0.001	-0.015	15.13
Stddev	.0002	.0108	.0003	.0001	.0001	.012	.0000	.0005	.00
%RSD	540.1	3.346	18.53	17.16	.1315	.1514	16.00	31.26	.0277
#1	-0.001	.3318	.0015	-0.006	.0562	8.054	-0.001	-0.012	15.13
#2	.0001	.3165	.0019	-0.005	.0563	8.037	-0.001	-0.019	15.12
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0004	.0004	.0007	.4858	41.69	-0.0073	2.252	.0991
Stddev	.0000	.0001	.0002	.0001	.0039	.02	.0006	.027	.0003
%RSD	15.57	29.15	36.50	8.721	.8119	.0414	8.524	1.182	.2921
#1	.0003	.0004	.0003	.0006	.4830	41.70	-0.0078	2.233	.0993
#2	.0002	.0003	.0006	.0007	.4886	41.67	-0.0069	2.270	.0989
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0518	324.5	.0005	.0005	.0002	.0004	5.794	.0022	.0009
Stddev	.0003	2.4	.0001	.0001	.0000	.0035	.020	.0006	.0012
%RSD	.6492	.7326	18.31	30.23	.1050	.872.7	.3451	29.49	138.9
#1	.0521	322.8	.0006	.0004	.0002	-.0021	5.780	.0026	.0017
#2	.0516	326.1	.0004	.0006	.0002	.0029	5.808	.0017	.0000
Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.289	.0015	.1065	.0087	.0039	.0013	.0136	.0061	.0042
Stddev	.004	.0002	.0001	.0003	.0001	.0002	.0011	.0000	.0001
%RSD	.1027	13.02	.0571	3.279	2.537	19.01	8.010	.4136	3.521
#1	4.286	.0016	.1065	.0089	.0038	.0014	.0144	.0061	.0043
#2	4.292	.0014	.1066	.0085	.0040	.0011	.0129	.0062	.0041

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Sample Name: MC32842-1 Acquired: 8/18/2014 11:37:12 Type: Unk
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4949.8	2514.2	104120.	16270.
Stddev	5.6	4.7	194.	34.
%RSD	.11295	.18831	.18672	.21075
#1	4953.7	2517.6	103980.	16246.
#2	4945.8	2510.9	104260.	16294.

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Sample Name: MC32872-1 Acquired: 8/18/2014 11:43:01 Type: Unk
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.1571	.0010	-0.003	.0568	5.714	-0.001	.0001	17.38
Stddev	.0001	.0019	.0002	.0005	.0004	.035	.0000	.0012	.01
%RSD	56.38	1.191	26.13	196.8	.7043	.6192	74.82	2285.	.0705
#1	.0001	.1557	.0008	.0001	.0571	5.689	-0.000	-0.008	17.38
#2	.0002	.1584	.0011	-0.006	.0565	5.739	-0.001	-0.009	17.37
Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0002	.0007	.0048	.3044	40.13	-0.0083	2.529	.0503
Stddev	.0000	.0001	.0002	.0003	.0015	.13	.0003	.025	.0000
%RSD	1.144	75.90	26.37	6.253	.4847	.3198	3.957	.9738	.0304
#1	.0002	.0001	.0006	.0046	.3054	40.22	-0.0080	2.546	.0504
#2	.0002	.0002	.0008	.0050	.3033	40.04	-0.0085	2.511	.0503
Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0516	331.2	.0012	-0.003	-0.003	.0010	5.363	.0054	.0019
Stddev	.0003	.9	.0003	.0003	.0000	.0006	.013	.0004	.0005
%RSD	.5960	.2605	21.61	114.1	8.480	59.33	.2427	7.186	23.55
#1	.0514	330.6	.0010	-0.001	-0.003	.0006	5.354	.0057	.0016
#2	.0518	331.8	.0014	-0.005	-0.003	.0014	5.373	.0052	.0022
Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	3.818	.0063	.1123	.0024	.0022	.0025	.0129	.3014	.0028
Stddev	.010	.0002	.0001	.0002	.0013	.0002	.0004	.0009	.0000
%RSD	.2502	3.456	.0885	7.406	57.39	8.550	2.715	.3136	1.215
#1	3.811	.0062	.1124	.0023	.0013	.0026	.0127	.3007	.0028
#2	3.825	.0065	.1123	.0026	.0031	.0023	.0132	.3020	.0028

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Sample Name: MC32872-1 Acquired: 8/18/2014 11:43:01 Type: Unk
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4924.2	2502.0	103290.	16008.
Stddev	1.0	1.0	79.	52.
%RSD	.02073	.04140	.07617	.32782
#1	4923.5	2502.7	103230.	15971.
#2	4924.9	2501.2	103340.	16045.

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Sample Name: MC32872-2 Acquired: 8/18/2014 11:48:49 Type: Unk
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0301	.0011	-.0012	.1906	.9024	-.0000	.0004	95.55
Stddev	.0003	.0044	.0008	.0001	.0004	.0005	.0000	.0002	.12
%RSD	95.90	14.71	72.04	9.302	.2258	.0540	19.56	43.17	.1213

#1	.0005	.0269	.0016	-.0011	.1909	.9020	-.0000	.0006	95.46
#2	.0001	.0332	.0005	-.0013	.1903	.9027	-.0001	.0003	95.63

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0010	.0013	.0016	.0456	7.705	.0530	34.55	.0140
Stddev	.0000	.0000	.0000	.0005	.0012	.024	.0006	.19	.0001
%RSD	4.467	2.361	3.255	29.51	2.705	.3158	1.077	.5531	.5208

#1	.0002	.0010	.0013	.0019	.0464	7.688	.0534	34.42	.0140
#2	.0002	.0009	.0013	.0013	.0447	7.722	.0526	34.69	.0139

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0058	132.7	.0010	.0021	.0003	.0010	11.67	.0052	.0012
Stddev	.0001	.2	.0000	.0008	.0003	.0011	.01	.0010	.0008
%RSD	1.992	.1552	4.402	37.27	117.4	105.5	.0482	18.77	71.28

#1	.0057	132.5	.0010	.0026	.0000	.0003	11.67	.0045	.0006
#2	.0059	132.8	.0010	.0015	.0005	.0018	11.68	.0059	.0017

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.085	.0029	2.792	.0010	.0001	.0009	.0210	.0128	.0021
Stddev	.003	.0007	.018	.0002	.0006	.0006	.0005	.0000	.0001
%RSD	.0532	22.82	.6579	17.60	512.3	63.58	2.444	.3290	5.411

#1	5.083	.0024	2.805	.0011	.0006	.0013	.0207	.0128	.0020
#2	5.087	.0033	2.779	.0008	-.0003	.0005	.0214	.0128	.0021

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Sample Name: MC32872-2 Acquired: 8/18/2014 11:48:49 Type: Unk
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4911.2	2470.0	103740.	15978.
Stddev	8.0	2.1	233.	15.
%RSD	.16323	.08448	.22499	.09613

#1	4916.9	2471.4	103570.	15988.
#2	4905.6	2468.5	103900.	15967.

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Sample Name: MC32923-1CONF Acquired: 8/18/2014 11:54:30 Type: Unk
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0000	.2571	.0004	-.0006	.0096	.0064	.0000	.0006	11.26
Stddev	.0000	.0090	.0000	.0002	.0004	.0000	.0000	.0004	.03
%RSD	22.52	3.512	6.645	33.14	4.011	.1596	1056.	71.51	2935

#1	-.0000	.2635	.0004	-.0005	.0093	.0064	-.0000	.0003	11.23
#2	-.0001	.2507	.0004	-.0008	.0099	.0064	.0000	.0009	11.28

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0002	.0005	.0001	.2379	3.829	.0034	1.938	.1835
Stddev	.0000	.0001	.0001	.0001	.0008	.005	.0008	.025	.0006
%RSD	.8161	57.71	15.64	111.9	.3375	.1399	24.48	1.272	.3007

#1	.0002	.0001	.0005	.0001	.2385	3.826	.0040	1.955	.1931
#2	.0002	.0003	.0006	.0000	.2373	3.833	.0028	1.921	.1939

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015	20.90	.0003	-.0003	.0005	.0011	4.448	.0024	.0014
Stddev	.0000	.06	.0002	.0004	.0011	.0014	.008	.0005	.0013
%RSD	2.552	.2654	57.92	120.3	243.1	125.6	.1740	20.05	89.69

#1	.0014	20.86	.0004	-.0000	.0012	.0001	4.442	.0021	.0023
#2	.0015	20.94	.0002	-.0006	-.0003	.0022	4.453	.0027	.0005

Elem	Si2124	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.667	.0010	.1348	.0111	-.0031	.0005	.0076	.0168	.0014
Stddev	.001	.0001	.0004	.0001	.0013	.0000	.0014	.0003	.0002
%RSD	.0158	5.046	.2878	.9576	41.36	4.631	18.41	1.949	14.34

#1	4.668	.0010	.1345	.0110	-.0022	.0005	.0086	.0170	.0015
#2	4.667	.0011	.1350	.0112	-.0041	.0005	.0066	.0166	.0012

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Sample Name: MC32923-1CONF Acquired: 8/18/2014 11:54:30 Type: Unk
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5031.5	2553.1	106250.	16568.
Stddev	2.8	1.7	283.	24.
%RSD	.05576	.06744	.26608	.14413

#1	5029.5	2551.9	106450.	16585.
#2	5033.4	2554.3	106050.	16551.

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Sample Name: CRI Acquired: 8/18/2014 12:00:07 Type: QC									
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0049	.2033	.0044	.0491	.1015	.0500	.0040	.0485	5.038
Stddev	.0000	.0074	.0007	.0003	.0009	.0003	.0000	.0006	.035
%RSD	.8552	3.617	15.10	.6405	.9164	.5057	1.021	1.187	.7000
#1	.0049	.2085	.0039	.0493	.1008	.0498	.0041	.0489	5.061
#2	.0049	.1981	.0049	.0489	.1022	.0501	.0040	.0481	5.011

Check ? Value Range
Chk Pass Chk Pass Chk Pass None Chk Pass Chk Pass Chk Pass None Chk Pass

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0040	.0518	.0107	.0233	.1034	4.979	.4852	4.919	.0156
Stddev	.0000	.0001	.0001	.0002	.0010	.021	.0002	.023	.0000
%RSD	1.155	.2263	.9252	.8696	.9877	.4166	.0404	.4591	.1626
#1	.0040	.0517	.0108	.0232	.1041	4.965	.4853	4.903	.0156
#2	.0039	.0518	.0106	.0234	.1026	4.994	.4850	4.935	.0156

Check ? Value Range
Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass None Chk Pass Chk Pass

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1029	4.916	.0421	.0041	.0478	.0503	.0537	.0073	.0105
Stddev	.0004	.006	.0000	.0008	.0005	.0004	.0010	.0006	.0004
%RSD	.4284	.1324	.1063	20.52	.9819	.8141	1.917	8.063	3.854
#1	.1026	4.921	.0421	.0035	.0475	.0506	.0530	.0069	.0107
#2	.1033	4.912	.0421	.0047	.0481	.0500	.0544	.0077	.0102

Check ? Value Range
Chk Pass Chk Pass Chk Pass Chk Pass None None None Chk Pass Chk Pass

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Sample Name: CRI Acquired: 8/18/2014 12:00:07 Type: QC									
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1115	.0980	.0102	.0495	.0039	.0102	.1020	.0208	.0413
Stddev	.0008	.0002	.0001	.0001	.0009	.0000	.0003	.0000	.0008
%RSD	.7421	.2200	.5730	.2535	22.64	.2622	.3410	.0970	1.979
#1	.1121	.0978	.0101	.0496	.0045	.0102	.1018	.0208	.0408
#2	.1109	.0981	.0102	.0494	.0033	.0102	.1022	.0208	.0419

Check ? Value Range
None Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass None Chk Pass None

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5018.1	2571.1	106190.	16300.
Stddev	2.1	2.4	317.	142.
%RSD	.04252	.09307	.29898	.86986
#1	5016.5	2569.4	105960.	16200.
#2	5019.6	2572.8	106410.	16400.

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Sample Name: ICSEA Acquired: 8/18/2014 12:05:43 Type: QC									
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0002	516.8	.0003	-0.0014	.0021	.0005	.0000	.0015	461.5
Stddev	.0004	5.6	.0015	.0003	.0009	.0001	.0000	.0001	4.7
%RSD	187.8	1.075	562.0	24.40	40.17	14.34	45.06	9.686	1.026
#1	-0.0005	512.7	-0.0008	-0.0012	.0027	.0006	.0000	.0016	458.2
#2	-0.0001	520.6	.0014	-0.0016	.0015	.0005	.0001	.0014	464.9

Check ? High Limit Low Limit
Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0002	.0007	.0000	-0.0007	182.8	-1.426	.0070	520.0	-0.0003
Stddev	.0001	.0003	.0003	.0001	.2	.0181	.0009	1.2	.0000
%RSD	24.63	42.69	552.8	14.45	.1153	12.71	12.82	.2237	11.20
#1	-0.0002	.0005	.0002	-0.0008	182.6	-1.554	.0076	519.2	-0.0003
#2	-0.0003	.0009	-0.0001	-0.0007	182.9	-1.298	.0063	520.8	-0.0003

Check ? High Limit Low Limit
Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass None Chk Pass Chk Pass

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0017	.1022	.0001	-0.0003	.0008	-0.0039	.0532	.0025	-0.0024
Stddev	.0000	.0010	.0002	.0006	.0008	.0011	.0013	.0013	.0044
%RSD	2.585	1.012	401.2	182.0	99.69	28.10	2.392	53.44	182.3
#1	.0017	.1014	.0002	.0001	.0013	-0.0031	.0523	.0034	-0.0055
#2	.0017	.1029	-0.0001	-0.0007	.0002	-0.0047	.0541	.0016	.0007

Check ? High Limit Low Limit
Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

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Sample Name: ICSEA Acquired: 8/18/2014 12:05:43 Type: QC									
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000									
User: admin Custom ID1: Custom ID2: Custom ID3:									
Comment:									
Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0271	.0031	.0013	.0004	-0.0009	.0012	.0150	-0.0003	.0014
Stddev	.0005	.0007	.0000	.0002	.0005	.0002	.0021	.0003	.0001
%RSD	1.907	23.09	2.689	40.82	60.50	18.78	14.08	114.8	6.023
#1	.0275	.0026	.0013	.0003	-0.0005	.0011	.0165	-0.0000	.0015
#2	.0268	.0036	.0013	.0005	-0.0013	.0014	.0135	-0.0005	.0013

Check ? High Limit Low Limit
Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4771.9	2316.6	97839.	15670.
Stddev	5.8	3.1	114.	42.
%RSD	.12209	.13329	.11603	.26976
#1	4776.0	2318.8	97758.	15699.
#2	4767.8	2314.4	97919.	15640.

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Sample Name: ICSAB Acquired: 8/18/2014 12:11:26 Type: QC
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.036	517.1	2.019	4960	1.060	4816	4780	5191	456.5
Stddev	.001	1.8	.001	.0010	.001	.0041	.0033	.0003	2.4
%RSD	.0883	.3532	.0368	.2071	.0572	.8453	.6863	.0576	.5171
#1	1.037	515.8	2.018	4967	1.060	4845	4804	5194	458.2
#2	1.036	518.4	2.019	4952	1.059	4787	4757	5189	454.8

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass None Chk Pass
High Limit
Low Limit

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.038	4600	4579	5213	181.8	-1614	5053	516.8	4749
Stddev	.002	.0001	.0008	.0003	1.1	.0070	.0051	4.1	.0005
%RSD	.1839	.0278	.1694	.0612	.6215	4.316	1.007	.8024	.1120
#1	1.036	4601	4573	5216	182.6	-1565	5089	519.8	4753
#2	1.039	4599	4584	5211	181.0	-1663	5017	513.9	4746

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9588	9972	8921	9320	5466	4971	5749	2075	2003
Stddev	.0044	.0021	.0001	.0019	.0004	.0005	.0029	.001	.002
%RSD	.4578	2.113	.0167	.2047	.0764	.1053	.5026	.0594	.0937
#1	9557	9986	8920	9306	5463	4975	5729	2074	2004
#2	9619	9957	8923	9333	5469	4968	5770	2076	2002

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

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Sample Name: CCV Acquired: 8/18/2014 12:17:02 Type: QC
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2492	9829	1970	1983	1959	1953	1950	1923	9875
Stddev	.0012	.039	.002	.004	.003	.001	.009	.010	.099
%RSD	.4921	.3941	.0884	.2157	.1627	.0736	.4852	.5208	.9986
#1	2483	9857	1969	1980	1957	1954	1956	1916	9945
#2	2501	9802	1971	1986	1962	1952	1943	1930	9806

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass None Chk Pass
Value
Range

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.966	1.968	1.946	1.917	9.923	9.726	1.932	9.716	1.870
Stddev	.001	.002	.002	.003	.068	.052	.003	.060	.004
%RSD	.0443	.0835	.1176	.1361	.6802	.5395	.1427	.6166	.1771
#1	1.965	1.967	1.944	1.916	9.970	9.763	1.930	9.759	1.968
#2	1.967	1.969	1.948	1.919	9.875	9.689	1.934	9.674	1.973

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.958	9.753	1.962	1.947	1.908	1.978	1.975	1.945	1.951
Stddev	.011	.011	.002	.000	.001	.006	.000	.005	.004
%RSD	.5433	.1108	.0903	.0130	.0479	.2900	.0113	.2703	.1932
#1	1.950	9.761	1.961	1.947	1.907	1.982	1.975	1.941	1.948
#2	1.965	9.745	1.963	1.947	1.909	1.974	1.975	1.949	1.953

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

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Sample Name: ICSAB Acquired: 8/18/2014 12:11:26 Type: QC
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.093	.9987	.9879	.4725	1.947	4694	1.944	.9006	.3426
Stddev	.003	.0018	.0077	.0011	.005	.0005	.013	.0006	.0061
%RSD	.1202	.1778	.7827	.2290	.2590	.1043	.6521	.0701	1.786
#1	2.091	.9974	.9934	.4732	1.943	4698	1.935	.9002	.3383
#2	2.095	.9999	.9825	.4717	1.951	4691	1.953	.9011	.3470

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4796.9	2331.5	98048.	15803.
Stddev	3.2	.1	42.	77.
%RSD	.06595	.00641	.04272	.48441
#1	4794.7	2331.6	98019.	15749.
#2	4799.1	2331.4	98078.	15857.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9588	9972	8921	9320	5466	4971	5749	2075	2003
Stddev	.0044	.0021	.0001	.0019	.0004	.0005	.0029	.001	.002
%RSD	.4578	2.113	.0167	.2047	.0764	.1053	.5026	.0594	.0937
#1	9557	9986	8920	9306	5463	4975	5729	2074	2004
#2	9619	9957	8923	9333	5469	4968	5770	2076	2002

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

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Sample Name: CCV Acquired: 8/18/2014 12:17:02 Type: QC
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.963	1.956	1.997	1.942	1.956	1.931	1.927	1.975	1.980
Stddev	.004	.005	.003	.003	.003	.005	.010	.001	.003
%RSD	.2210	.2643	.1403	.1433	.1296	.2369	.5042	.0651	.1565
#1	1.960	1.952	1.999	1.940	1.954	1.928	1.920	1.974	1.982
#2	1.966	1.960	1.995	1.944	1.958	1.935	1.934	1.975	1.978

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	5055.9	2568.4	105880.	16259.
Stddev	9.0	3.8	350.	236.
%RSD	.17743	.14668	.33072	1.4508
#1	5049.5	2565.7	106120.	16092.
#2	5062.2	2571.0	105630.	16426.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.958	9.753	1.962	1.947	1.908	1.978	1.975	1.945	1.951
Stddev	.011	.011	.002	.000	.001	.006	.000	.005	.004
%RSD	.5433	.1108	.0903	.0130	.0479	.2900	.0113	.2703	.1932
#1	1.950	9.761	1.961	1.947	1.907	1.982	1.975	1.941	1.948
#2	1.965	9.745	1.963	1.947	1.909	1.974	1.975	1.949	1.953

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
Value
Range

Raw Data MA17448 page 56 of 58

Sample Name: CCB Acquired: 8/18/2014 12:22:28 Type: QC
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3961	As1890	Au2427	B_2089	Ba4554	Be3130	Bi2230	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0001	.0120	.0003	.0007	.0025	.0001	.0000	.0011	-0.0029
Stddev	.0001	.0005	.0003	.0001	.0002	.0000	.0000	.0007	.0011
%RSD	128.0	4.033	94.62	18.99	7.709	33.40	97.71	62.34	39.22
#1	-0.0002	.0123	.0001	.0006	.0026	.0001	.0000	.0016	-0.0037
#2	-0.0000	.0116	.0005	.0008	.0023	.0002	.0000	.0006	-0.0021

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Cd2288	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-0.0000	.0000	-0.0003	-0.0004	.0018	-0.0038	.0011	-0.0079	.0001
Stddev	.0000	.0000	.0001	.0001	.0009	.0144	.0006	.0001	.0000
%RSD	33.63	53.10	29.57	21.77	48.66	383.2	55.96	1.358	26.05
#1	-0.0000	.0001	-0.0003	-0.0004	.0025	.0064	.0016	-0.0078	.0001
#2	-0.0001	.0000	-0.0004	-0.0003	.0012	-0.0139	.0007	-0.0080	.0001

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Mo2020	Na5895	Ni2316	Pb2203	Pd3404	Pt2659	S_1820	Sb2068	Se1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0048	.0019	.0000	.0001	.0004	.0019	.0002	.0005	.0009
Stddev	.0008	.0054	.0002	.0010	.0004	.0002	.0012	.0002	.0003
%RSD	15.85	278.3	377.0	907.0	87.68	12.25	584.6	33.05	39.07
#1	.0053	.0058	-0.0001	.0008	.0002	.0017	-0.0007	.0007	.0006
#2	.0043	-0.0019	.0002	-0.0006	.0007	.0021	.0011	.0004	.0011

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Raw Data MA17448 page 57 of 58

Sample Name: CCB Acquired: 8/18/2014 12:22:28 Type: QC
Method: Accutest2(v113) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Si2124	Sn1899	Sr4077	Ti3349	Ti1908	V_2924	W_2079	Zn2062	Zr3391
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0021	.0007	.0000	.0002	.0006	.0000	.0095	-0.0001	.0015
Stddev	.0004	.0003	.0001	.0001	.0001	.0000	.0010	.0000	.0001
%RSD	18.25	38.22	189.2	62.63	16.85	231.1	10.54	16.40	9.187
#1	.0024	.0005	.0001	.0002	.0006	-0.0000	.0102	-0.0001	.0015
#2	.0018	.0008	-0.0000	.0001	.0007	.0000	.0087	-0.0001	.0014

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4983.6	2574.5	106040.	16322.
Stddev	24.5	11.9	109.	276.
%RSD	.49167	.46288	.10313	1.6940
#1	5000.9	2583.0	105960.	16127.
#2	4966.3	2566.1	106110.	16518.

Raw Data MA17448 page 58 of 58

Inter-element Corrections were performed on 08/18/2014. *WJ*

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
Ag 328.068 {103}	☒	10	Fe	-0.000104	0.000000	No
			Mn	0.000165	0.000000	No
			Ti	-0.000056	0.000000	No
			V	-0.000322	0.000000	No
			Cu	-0.000053	0.000000	No
			Mo	-0.000089	0.000000	No
			Zr	0.003220	0.000000	No
			Al	-0.000001	0.000000	No
			Ca	-0.000002	0.000000	No
			Mg	-0.000001	0.000000	No
Al 396.152 { 85}	☒	4	Na	0.000009	0.000000	No
			Mo	0.035743	0.000000	No
			Mn	-0.000198	0.000000	No
			Ca	0.000050	0.000000	No
As 189.042 {478}	☒	15	Fe	-0.000014	0.000000	No
			Mg	0.000001	0.000000	No
			Ca	-0.000001	0.000000	No
			Na	0.000002	0.000000	No
			Mn	-0.000012	0.000000	No
			Co	-0.000735	0.000000	No
			Cr	0.000345	0.000000	No
			Mo	0.001043	0.000000	No
			Ti	-0.000031	0.000000	No
			V	0.000051	0.000000	No
			Al	0.000002	0.000000	No
			Pd	0.023781	0.000000	No
			Zr	0.000110	0.000000	No
			B	-0.000051	0.000000	No
Au 242.795 {139}	☒	3	W	0.001461	0.000000	No
			Fe	0.000401	0.000000	No
			Mn	0.006172	0.000000	No
B 208.959 {462}	☒	5	W	-0.000213	0.000000	No
			Si	0.000676	0.000000	No
			Mo	0.013583	0.000000	No
			Ti	0.000480	0.000000	No
			V	0.001000	0.000000	No
Ba 455.403 { 74}	☒	1	W	-0.000376	0.000000	No
			Ca	0.000010	0.000000	No
Be 313.042 {108}	☒	2	Ti	-0.000303	0.000000	No
			V	0.000137	0.000000	No
Bi 223.061 {451}	☒	7	Fe	0.000031	0.000000	No
			Co	-0.001818	0.000000	No
			Cr	0.001095	0.000000	No
			Ti	-0.001595	0.000000	No
			V	-0.001151	0.000000	No
			Cu	-0.002887	0.000000	No
Ca 317.933 {106}	☒	2	W	-0.002446	0.000000	No
			Al	0.000075	0.000000	No
Cd 228.802 {448}	☒	7	Mg	0.000046	0.000000	No
			Fe	-0.000002	0.000000	No
			Mg	0.000002	0.000000	No
			Co	-0.001551	0.000000	No
			Ni	-0.000103	0.000000	No
			Ca	0.000000	0.000000	No
			V	0.000084	0.000000	No
Co 228.616 {448}	☒	4	W	-0.000853	0.000000	No
			Fe	0.000028	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
			Mo	-0.000377	0.000000	No
			Ti	0.002017	0.000000	No
			Mg	0.000002	0.000000	No
Cr 267.716 {126}	☒	5	Cu	0.000181	0.000000	No
			Al	0.000003	0.000000	No
			Fe	-0.000007	0.000000	No
			Mn	0.000201	0.000000	No
			W	0.000467	0.000000	No
Cu 324.754 {104}2	☒	8	Fe	-0.000082	0.000000	No
			Co	-0.000695	0.000000	No
			Mo	0.000224	0.000000	No
			V	-0.000093	0.000000	No
			Zr	-0.001600	0.000000	No
			Mn	-0.000037	0.000000	No
			Ca	0.000003	0.000000	No
			Ti	0.000014	0.000000	No
Fe 259.940 {130}	☒	None				
In 230.606 {446}* K 766.490 { 44}	☒	None				
Li 670.784 { 50}	☒	1	Na	0.000226	0.000000	No
		2	Ca	0.000024	0.000000	No
			Na	0.000048	0.000000	No
Mg 279.079 {121}	☒	2	Fe	-0.000180	0.000000	No
			Mo	-0.009670	0.000000	No
Mn 257.610 {131}	☒	3	Fe	-0.000015	0.000000	No
			Ca	0.000003	0.000000	No
			Si	0.000235	0.000000	No
Mo 202.030 {467}	☒	8	Al	-0.000002	0.000000	No
			Mg	-0.000002	0.000000	No
			Ca	0.000001	0.000000	No
			Na	-0.000007	0.000000	No
			Mn	-0.000036	0.000000	No
			Co	0.000002	0.000000	No
			Cu	0.000020	0.000000	No
			Ni	0.000009	0.000000	No
Na 589.592 { 57}	☒	1	Al	0.000506	0.000000	No
Ni 231.604 {446}	☒	5	Co	-0.000195	0.000000	No
			Mo	0.000025	0.000000	No
			Fe	0.000032	0.000000	No
			Al	0.000000	0.000000	No
			Ca	-0.000001	0.000000	No
Pb 220.353 {453}	☒	15	Fe	0.000048	0.000000	No
			Al	-0.000062	0.000000	No
			Si	0.000051	0.000000	No
			Co	-0.000024	0.000000	No
			Cu	0.000248	0.000000	No
			Ni	0.000062	0.000000	No
			Mo	-0.000999	0.000000	No
			Mg	0.000004	0.000000	No
			Ca	-0.000008	0.000000	No
			Mn	0.000098	0.000000	No
			S	-0.000075	0.000000	No
			Na	0.000000	0.000000	No
			Ti	-0.000316	0.000000	No
			V	-0.000128	0.000000	No
			W	-0.002172	0.000000	No
Pd 340.458 { 99}	☒	4	Fe	-0.000312	0.000000	No
			Ca	-0.000017	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
Pt 265.945 {127}	☒	7	Co	-0.004770	0.000000	No
			Ti	-0.000574	0.000000	No
			Fe	-0.000028	0.000000	No
			Al	-0.000018	0.000000	No
			Mn	-0.001394	0.000000	No
			Cr	0.004108	0.000000	No
			Mo	-0.001488	0.000000	No
S 182.034 {485}	☒	8	V	-0.008690	0.000000	No
			W	-0.000924	0.000000	No
			Fe	0.000603	0.000000	No
			Al	-0.000004	0.000000	No
			Mg	-0.000007	0.000000	No
			Ca	-0.000083	0.000000	No
			Mn	0.004670	0.000000	No
Sb 206.833 {463}	☒	13	Mo	-0.004370	0.000000	No
			Ti	0.000201	0.000000	No
			W	-0.024551	0.000000	No
			Fe	0.000010	0.000000	No
			Al	-0.000018	0.000000	No
			Mg	-0.000008	0.000000	No
			Ca	0.000000	0.000000	No
			Cr	0.006228	0.000000	No
			Ni	-0.000081	0.000000	No
			Mo	-0.000117	0.000000	No
			Cu	-0.000015	0.000000	No
			Sn	-0.005930	0.000000	No
			Zr	-0.000420	0.000000	No
Se 196.090 {472}	☒	14	Ti	-0.000315	0.000000	No
			V	-0.001466	0.000000	No
			W	-0.000497	0.000000	No
			Fe	-0.000257	0.000000	No
			Al	-0.000002	0.000000	No
			Mg	-0.000012	0.000000	No
			Ca	-0.000009	0.000000	No
			Na	-0.000004	0.000000	No
			Co	-0.000535	0.000000	No
			Ni	-0.000130	0.000000	No
			Mn	0.000299	0.000000	No
			Sn	0.000400	0.000000	No
			Pd	-0.001226	0.000000	No
			V	0.000093	0.000000	No
Si 212.412 {459}	☒	4	Mo	0.000066	0.000000	No
			Ti	0.000001	0.000000	No
			W	0.008850	0.000000	No
			Al	0.000049	0.000000	No
			Mo	0.024726	0.000000	No
Sn 189.989 {478}	☒	1	Ti	0.008351	0.000000	No
Sr 407.771 { 83}	☒	None	V	0.028014	0.000000	No
Tl 334.904 {101}	☒	3	Ti	-0.002079	0.000000	No
Tl 190.856 {477}	☒	11	Mo	0.000248	0.000000	No
			Ca	0.000004	0.000000	No
			Al	0.000006	0.000000	No
			Al	0.000001	0.000000	No
			Mg	-0.000001	0.000000	No
			Ca	0.000005	0.000000	No
			Na	-0.000003	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
			Mn	0.000750	0.000000	No
			Co	0.001630	0.000000	No
			Cr	0.000194	0.000000	No
			Ti	-0.002717	0.000000	No
			V	-0.040228	0.000000	No
			Fe	0.000010	0.000000	No
			Mo	0.000093	0.000000	No
V 292.402 (115)	☒	5	Fe	0.000022	0.000000	No
			Mn	-0.000124	0.000000	No
			Cr	-0.002287	0.000000	No
			Mo	-0.006532	0.000000	No
			Ti	0.000602	0.000000	No
W 207.911 (462)	☒	6	Co	-0.000470	0.000000	No
			Cr	-0.000390	0.000000	No
			Cu	-0.000430	0.000000	No
			Ni	-0.000440	0.000000	No
			Ti	-0.000410	0.000000	No
			V	-0.000520	0.000000	No
Y 224.306 (451)*	☒	None				
Y 360.073 (94)*	☒	None				
Y 371.030 (91)*	☒	None				
Zn 206.200 (464)	☒	7	Mg	0.000002	0.000000	No
			Al	0.000003	0.000000	No
			Ca	0.000002	0.000000	No
			Na	0.000004	0.000000	No
			Cr	-0.000410	0.000000	No
			Ti	0.000095	0.000000	No
			Fe	-0.000000	0.000000	No
Zr 339.198 (99)	☒	5	Fe	-0.000043	0.000000	No
			Ti	0.002216	0.000000	No
			V	0.003207	0.000000	No
			Mo	0.000594	0.000000	No
			S	-0.000027	0.000000	No



Date:	08/15/14
Time	13:05

Name:	ERICM1		
MP Batch ID:	MP23493		
QC Sample ID:	MC32825-4		
Reagent Lot #			
1:1 HNO3			
1:1 HCl	RGT-41708-METALS		
Conc HNO3	VENDOR-14860		
Conc HCl			
H2O2			
LCS Lot #			
Digestion Tube Lot #	1312222		
Dig Block ID:	4	Therm ID	GN017
Dig Block ID:		Therm ID	
Balance ID:	N/A	Repipetor ID	1

Aqueous EPA 200.7/ 200.8	☐	WW	▼
Aqueous SW846 3010A	☒		
Soil SW846 3050B	☐		

ML Used		Spike Lot#			
0.5		METSTK-1158-METALS			
Spike ID		MPICP ▼			
95	Factor	-1	Corrected Temp. C	94	
	Factor		Corrected Temp. C		
Filter Paper Lot #					

Note: (A) Serial dilution shown for QC purposes only (not a separate digestion). (B) For DW samples <1NTU, measure pH prior to analysis.

[illegible]

Protected Worksheet

MMP003-03

QC Review EAL

Date:

08/18/14

(Format edits must be done by Dept. Manager)

General Chemistry

QC Data Summaries

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Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries
- Instrument Runlogs/QC

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: MC32872
Account: WSPVAR - WSP Environmental & Energy
Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Cyanide	GP18034/GN48016	0.010	0.0026	mg/l	0.1	0.0992	99.2	90-110%
Cyanide	GP18034/GN48016			mg/l	0.2	0.202	101.0	90-110%

Associated Samples:
Batch GP18034: MC32872-3
(*) Outside of QC limits

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BLANK SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: MC32872
Account: WSPVAR - WSP Environmental & Energy
Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Analyte	Batch ID	Units	Spike Amount	BSD Result	RPD	QC Limit
Cyanide	GP18034/GN48016	mg/l	0.1	0.101	1.8	20%

Associated Samples:
Batch GP18034: MC32872-3
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: MC32872
Account: WSPVAR - WSP Environmental & Energy
Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Cyanide	GP18034/GN48016	MC32881-1	mg/l	0.0	0.0	0.0	0-20%

Associated Samples:
Batch GP18034: MC32872-3
(*) Outside of QC limits

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MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: MC32872
Account: WSPVAR - WSP Environmental & Energy
Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Cyanide	GP18034/GN48016	MC32881-1	mg/l	0.0	0.1	0.10	100.0	75-125%

Associated Samples:

Batch GP18034: MC32872-3

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

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Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: MC32872

Account: WSPVAR - WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: 081814W1.CN

Date Analyzed: 08/18/14

Methods: SW846 9012

Analyst: MA

Run ID: GN48016

Parameters: Cyanide

Time	Sample Description	Dilution Factor	PS Recov	Comments
11:45	GN48016-STD1	1		STDA0.50
11:46	GN48016-STD2	1		STDB0.30
11:47	GN48016-STD3	1		STDC0.20
11:48	GN48016-STD4	1		STDD0.10
11:49	GN48016-STD5	1		STDE0.030
11:50	GN48016-STD6	1		STDF0.010
11:52	GN48016-STD7	1		STDG0.00
11:54	GN48016-ICV1	1		
11:56	GN48016-ICB1	1		
11:57	GN48016-CCV1	1		
11:58	GN48016-CCB1	1		
11:59	GP18034-MB1	1		
12:00	GP18034-B1	1		
12:01	GP18034-B2	1		
12:02	GP18034-B3	1		
12:03	GP18034-S1	1		
12:04	GP18034-D1	1		
12:05	MC32881-1	1		(sample used for QC only; not part of login MC32872)
12:06	ZZZZZZ	1		DNR, offscale
12:07	ZZZZZZ	1		DNR, offscale
12:08	ZZZZZZ	1		
12:09	GN48016-CCV2	1		
12:10	GN48016-CCB2	1		
12:11	ZZZZZZ	1		
12:12	ZZZZZZ	1		
12:13	ZZZZZZ	1		
12:14	ZZZZZZ	1		
12:15	GN48016-CCV3	1		
12:16	GN48016-CCB3	1		
12:39	GN48016-CCV4	1		
12:40	GN48016-CCB4	1		
12:41	ZZZZZZ	2		
12:42	MC32872-3	2		

Accutest Laboratories Instrument Runlog
Inorganics Analyses

Login Number: MC32872

Account: WSPVAR - WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: 081814W1.CN

Date Analyzed: 08/18/14

Methods: SW846 9012

Analyst: MA

Run ID: GN48016

Parameters: Cyanide

Time	Sample Description	Dilution Factor	PS Recov	Comments

12:43 GN48016-CCV5 1

12:44 GN48016-CCB5 1

Refer to raw data for calibration curve and standards.

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Instrument QC Summary
Inorganics Analyses

Login Number: MC32872

Account: WSPVAR - WSP Environmental & Energy

Project: Emerson Power Transmission, EPT, 620 South Aurora Street, Ithaca, NY

File ID: 081814W1.CN

Date Analyzed: 08/18/14

Methods: SW846 9012

Run ID: GN48016

Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN48016-ICV1	Cyanide	0.20	0.010	0.0014	.2	100.0	90-110
GN48016-ICB1	Cyanide	0.0014 U	0.010	0.0014			
GN48016-CCV1	Cyanide	0.30	0.010	0.0014	.3	100.0	90-110
GN48016-CCB1	Cyanide	0.0014 U	0.010	0.0014			
GN48016-CCV2	Cyanide	0.30	0.010	0.0014	.3	100.0	90-110
GN48016-CCB2	Cyanide	0.0014 U	0.010	0.0014			
GN48016-CCV3	Cyanide	0.30	0.010	0.0014	.3	100.0	90-110
GN48016-CCB3	Cyanide	0.0014 U	0.010	0.0014			
GN48016-CCV4	Cyanide	0.30	0.010	0.0014	.3	100.0	90-110
GN48016-CCB4	Cyanide	0.0014 U	0.010	0.0014			
GN48016-CCV5	Cyanide	0.30	0.010	0.0014	.3	100.0	90-110
GN48016-CCB5	Cyanide	0.0014 U	0.010	0.0014			

(!) Outside of QC limits

General Chemistry

Raw Data

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Reagents					
Calib STD	GNSTD-	34839-CN	Buffer	RGT-	42106-CN
ICV	GNSTD-	34838-CN-2	Carrier	RGT-	41375-CN
CCV	GNSTD-	34839-CN-4	Chloramine-T	RGT-	42104-CN
Silver Nitrate	RGT-	41629-CN	Pyridine Barb. Acid	RGT-	42105-CN
Rhodamine Indicator	RGT-	41630-CN	CN STOCK STD	GNSTD-	34840-CN-1

QC Review

Date:

8-18-58


ACCUTEST.

MGN127-01

(Format edits must be done by Dept. manager)

QC Review

Date _____

8,18,19

Author: chemistry

Date : 8/18/2014

Original Run Filename: OM_8-18-2014_11-44-41AM.OMN Created: 8/18/2014 11:44:41 AM

Original Run Author's Signature: [chemistry]

Current Run Filename: OM_8-18-2014_11-44-41AM.OMN Last Modified: 8/18/2014 12:19:00 PM

Current Run Author's Signature: [chemistry]

Description: Default New Run

Sample	Rep.	Channel 1 Cn (mg/L)	MDF
StdA0.50	1	0.500	
StdB0.30	1	0.300	
StdC0.20	1	0.200	
StdD0.10	1	0.100	
StdE0.030	1	0.0300	
StdF0.010	1	0.0100	
StdG0.00	1	0.00	
ICV	1	0.200	
Calibration: Table/Fig. : 1			
ICB	1	8.20e-4	
CCV	1	0.296	
CCB	1	9.92e-4	
GP18034-MB1	1	2.57e-3	
GP18034-B1	1	0.0992	
GP18034-B2	1	0.101	
GP18034-B3	1	0.202	
GP18034-S1	1	0.101	
GP18034-D1	1	5.82e-6	
MC32881-1	1	-7.86e-4	
MC32842-1	1	0.677	
MC32872-3	1	0.579	
MC32881-2	1	6.71e-4	
CCV	1	0.300	
CCB	1	7.73e-4	
MC32881-3	1	-5.57e-4	
MC32881-4	1	-9.21e-4	
MC32881-5	1	-9.00e-4	
MC32881-6	1	-4.66e-4	
CCV	1	0.299	
CCB	1	7.25e-4	

DNR offscale MCB 8-18-14
DNR offscale MCB

Table : 1 (Cn)

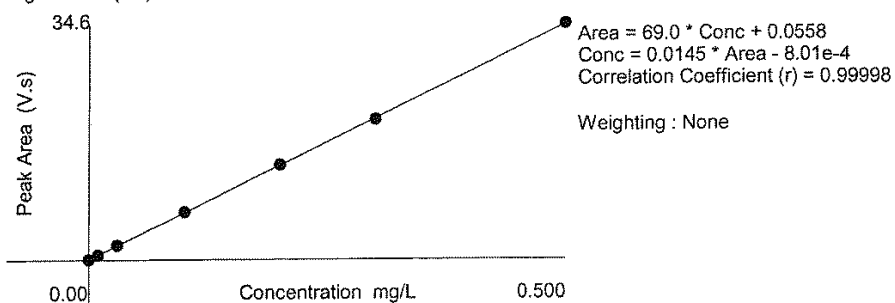
	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	0.500	1	34.6	1.78	0.0	-0.2	0.501	8/18/2014	11:45:36 AM
2	0.300	1	20.6	1.05	0.0	0.9	0.297	8/18/2014	11:46:41 AM
3	0.200	1	13.9	0.714	0.0	-0.4	0.201	8/18/2014	11:47:45 AM
4	0.100	1	7.03	0.362	0.0	-1.0	0.101	8/18/2014	11:48:50 AM
5	0.0300	1	2.13	0.109	0.0	-0.4	0.0301	8/18/2014	11:49:54 AM
6	0.0100	1	0.737	0.0375	0.0	1.2	9.88e-3	8/18/2014	11:50:59 AM
7	0.00	1	0.0437	2.89e-3			-1.67e-4	8/18/2014	11:52:03 AM

8,18,14

Author: chemistry

Date : 8/18/2014

Figure : 1 (Cn)

9.1
6

8,18,19

Author: chemistry

Date : 8/18/2014

Original Run Filename: OM_8-18-2014_12-38-43PM.OMN Created: 8/18/2014 12:38:43 PM

Original Run Author's Signature: [chemistry]

Current Run Filename: OM_8-18-2014_12-38-43PM.OMN Last Modified: 8/18/2014 12:46:56 PM

Current Run Author's Signature: [chemistry]

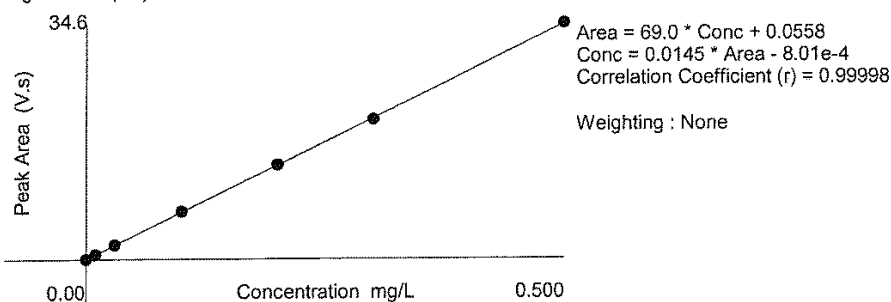
Description: Default New Run

Sample	Rep.	Channel 1 Cn (mg/L)	MDF
CCV	1	0.301	
Calibration: Table/Fig. : 1			
CCB	1	1.02e-3	
MC32842-1	1	0.354	2.00
MC32872-3	1	0.312	2.00
CCV	1	0.304	
CCB	1	8.13e-4	

Table : 1 (Cn)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	0.500	1	34.6	1.78	0.0	-0.2	0.501	8/18/2014	11:45:36 AM
2	0.300	1	20.6	1.05	0.0	0.9	0.297	8/18/2014	11:46:41 AM
3	0.200	1	13.9	0.714	0.0	-0.4	0.201	8/18/2014	11:47:45 AM
4	0.100	1	7.03	0.362	0.0	-1.0	0.101	8/18/2014	11:48:50 AM
5	0.0300	1	2.13	0.109	0.0	-0.4	0.0301	8/18/2014	11:49:54 AM
6	0.0100	1	0.737	0.0375	0.0	1.2	9.88e-3	8/18/2014	11:50:59 AM
7	0.00	1	0.0437	2.89e-3			-1.67e-4	8/18/2014	11:52:03 AM

Figure : 1 (Cn)



8,18,14