

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU032019\
 Data File : VU030242.D
 Acq On : 20 Mar 2019 22:49
 Operator : JC/SP
 Sample : K2022-08
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 C09C8

Manual Integrations
 APPROVED

MMDadoda
 3/22/2019 12:14:46 PM

Quant Time: Mar 22 02:50:09 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM031919WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Mar 22 01:27:23 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	537396	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	535747	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.49	152	315526	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	143959	39.62	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	79.24%
7) Chloroethane-d5	1.68	69	129003	44.40	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	88.80%
11) 1,1-Dichloroethene-d2	2.27	63	209022	31.53	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	63.06%
21) 2-Butanone-d5	4.17	46	266029	98.68	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	98.68%
24) Chloroform-d	4.65	84	298846	44.81	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	89.62%
26) 1,2-Dichloroethane-d4	5.31	65	179035	47.07	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.14%
32) Benzene-d6	5.34	84	635569	45.02	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.04%
36) 1,2-Dichloropropane-d6	6.33	67	204149	46.73	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	93.46%
41) Toluene-d8	7.56	98	583082	43.92	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	87.84%
43) trans-1,3-Dichloropropene-	7.85	79	90287	42.45	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	84.90%
47) 2-Hexanone-d5	8.31	63	218518	96.46	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	96.46%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	315122	47.03	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	94.06%
64) 1,2-Dichlorobenzene-d4	11.88	152	297671	46.99	ug/L	0.03
Spiked Amount	50.000	Range	80 - 120	Recovery	=	93.98%

Target Compounds

					Ovalue
13) Acetone	2.32	43	9297	3.300	ug/L 94
29) Cyclohexane	4.99	56	12310	2.115	ug/L 98
31) Carbon tetrachloride	5.13	117	7663	1.499	ug/L 99
33) Benzene	5.39	78	111409	7.208	ug/L 100
35) Methylcyclohexane	6.41	83	53883	8.434	ug/L # 77
46) Tetrachloroethene	8.22	164	4475m	1.300	ug/L
51) Chlorobenzene	9.11	112	23572685m	2117.815	ug/L
62) 1,3-Dichlorobenzene	11.42	146	7150176	710.277	ug/L 99
63) 1,4-Dichlorobenzene	11.50	146	23581504m	2258.346	ug/L
65) 1,2-Dichlorobenzene	11.88	146	34847209m	3388.121	ug/L
67) 1,3,5-Trichlorobenzene	12.89	180	20364	2.588	ug/L 98
68) 1,2,4-trichlorobenzene	13.50	180	23117109m	3322.668	ug/L
70) 1,2,3-Trichlorobenzene	13.99	180	4997721	688.435	ug/L 99

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

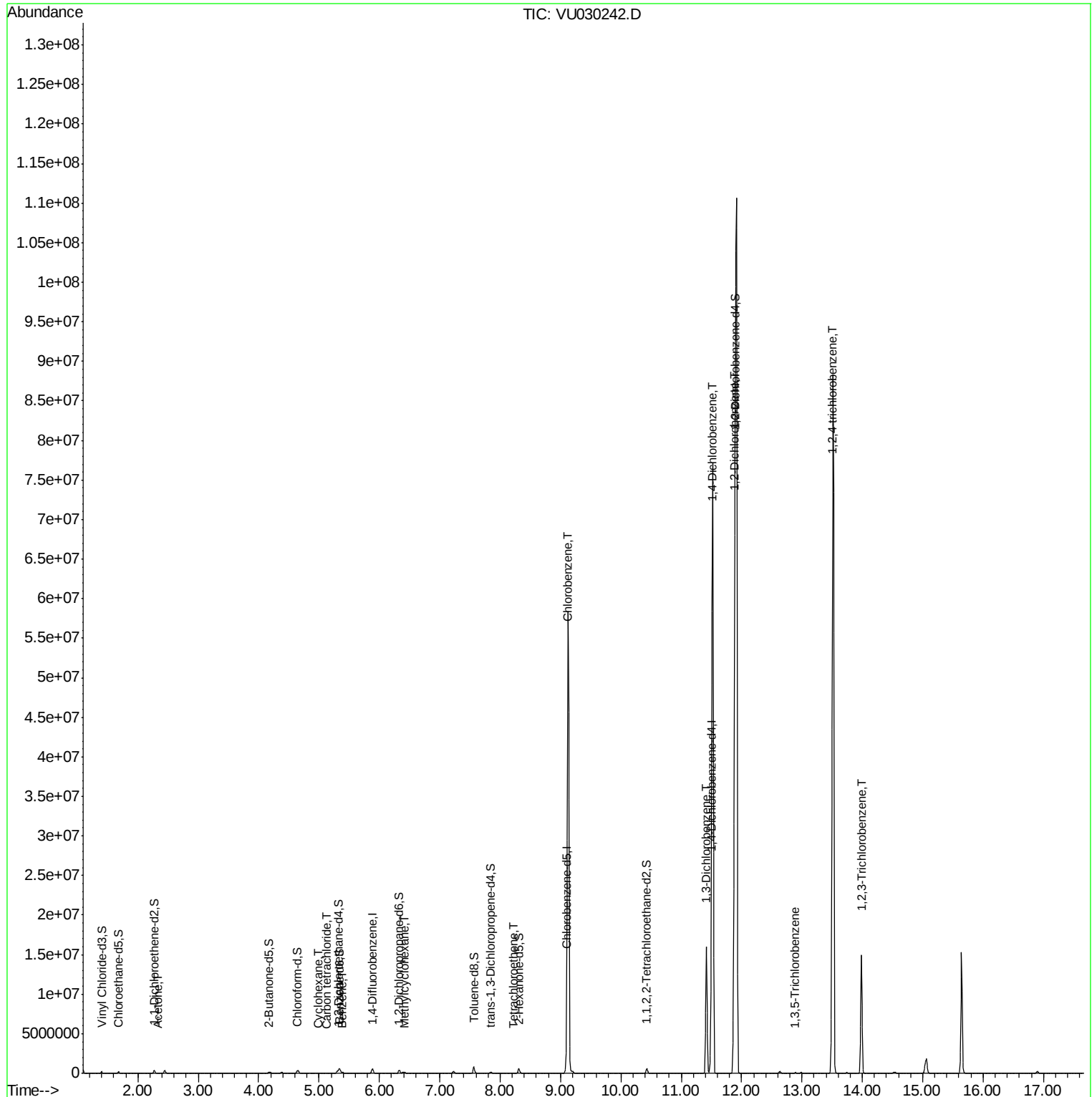
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU032019\
Data File : VU030242.D
Acq On : 20 Mar 2019 22:49
Operator : JC/SP
Sample : K2022-08
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 28 Sample Multiplier: 1

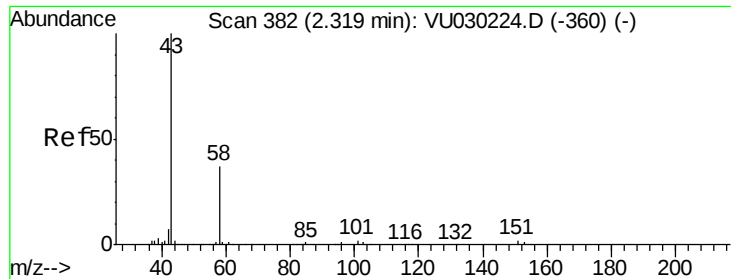
Instrument :
MSVOA_U
ClientSampleId :
C09C8

Manual Integrations
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Quant Time: Mar 22 02:50:09 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM031919WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Mar 22 01:27:23 2019
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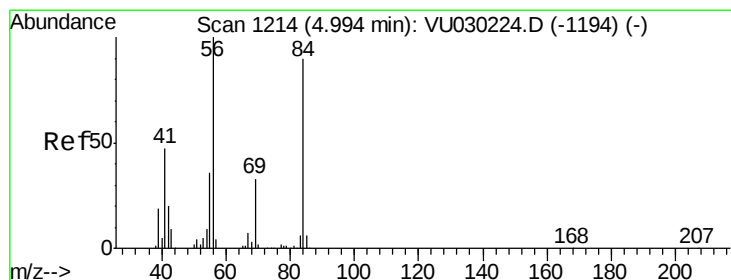
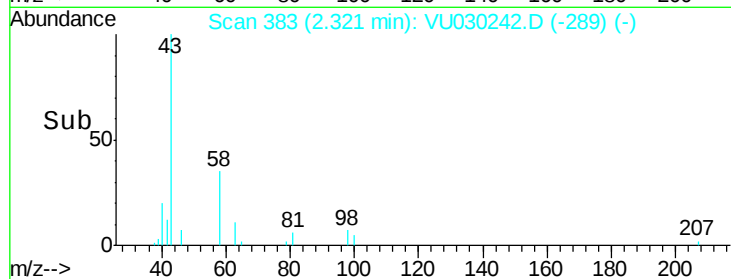
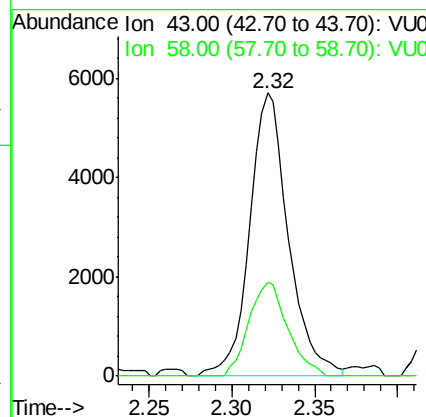
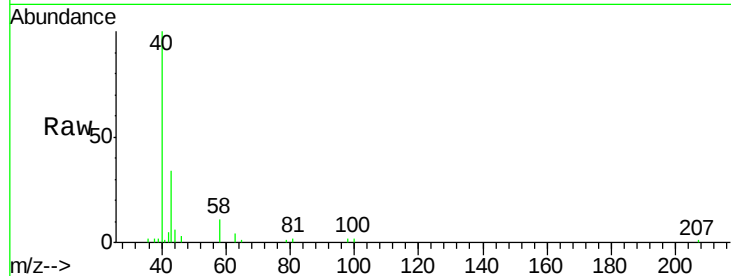
#13
Acetone
Concen: 3.300 ug/L
RT: 2.32 min Scan# 383
Delta R.T. 0.00 min
Lab File: VU030242.D
Acq: 20 Mar 2019 22:49

Instrument :
MSVOA_U
ClientSampleId :
C09C8

Tot Ion: 43 Resp: 9297
Ion Ratio Lower Upper
43 100
58 33.0 0.0 73.4

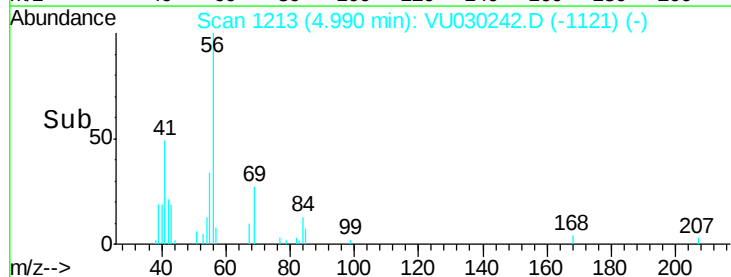
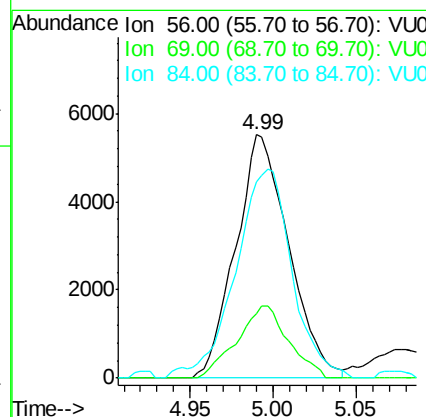
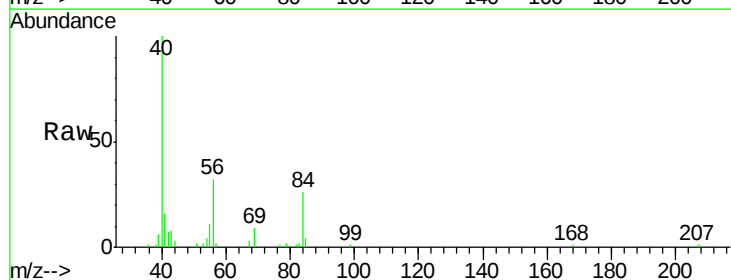
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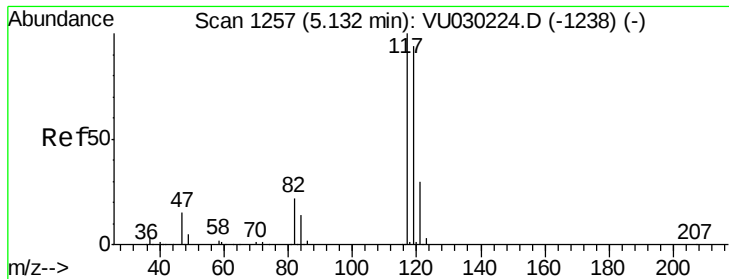
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#29
Cyclohexane
Concen: 2.115 ug/L
RT: 4.99 min Scan# 1213
Delta R.T. -0.00 min
Lab File: VU030242.D
Acq: 20 Mar 2019 22:49

Tgt Ion: 56 Resp: 12310
Ion Ratio Lower Upper
56 100
69 28.7 25.4 38.2
84 90.1 71.5 107.3





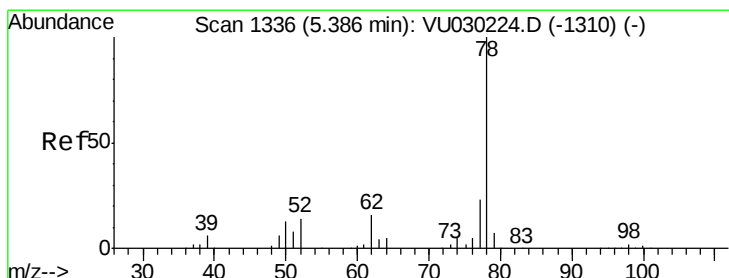
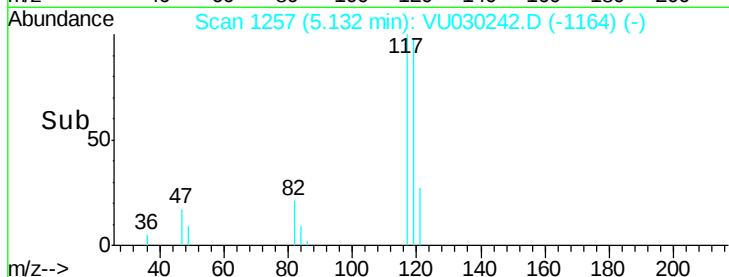
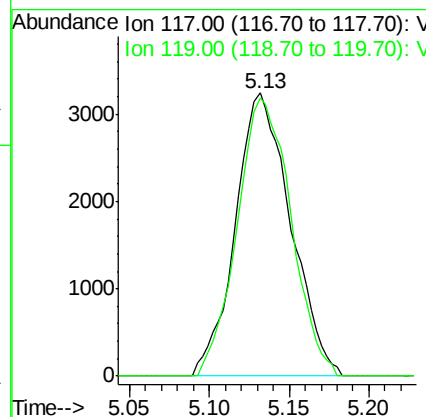
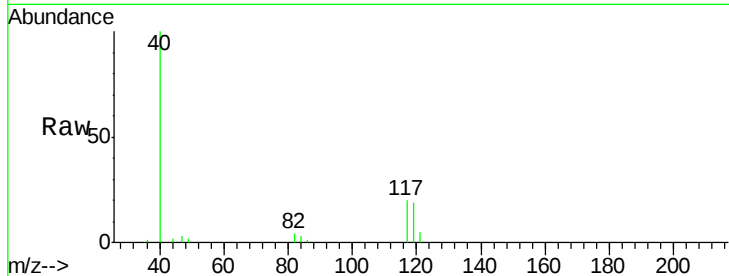
#31
Carbon tetrachloride
Concen: 1.499 ug/L
RT: 5.13 min Scan# 1257
Delta R.T. -0.00 min
Lab File: VU030242.D
Acq: 20 Mar 2019 22:49

Instrument :
MSVOA_U
ClientSampleId :
C09C8

Tot Ion:117 Resp: 7663
Ion Ratio Lower Upper
117 100
119 95.8 77.1 115.7

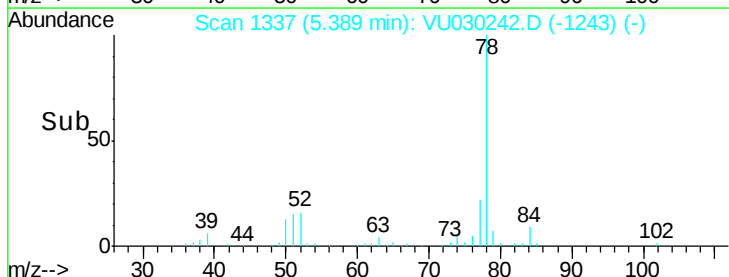
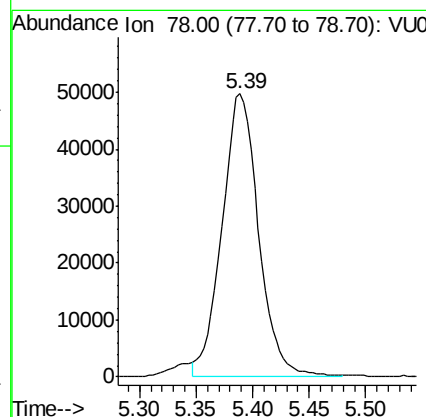
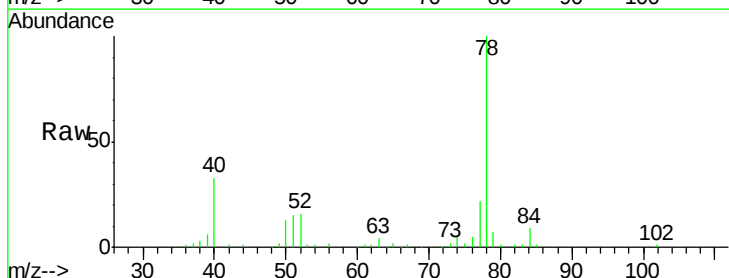
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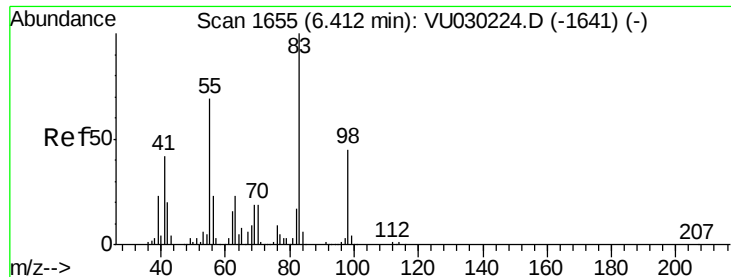
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#33
Benzene
Concen: 7.208 ug/L
RT: 5.39 min Scan# 1337
Delta R.T. 0.00 min
Lab File: VU030242.D
Acq: 20 Mar 2019 22:49

Tgt Ion: 78 Resp: 111409





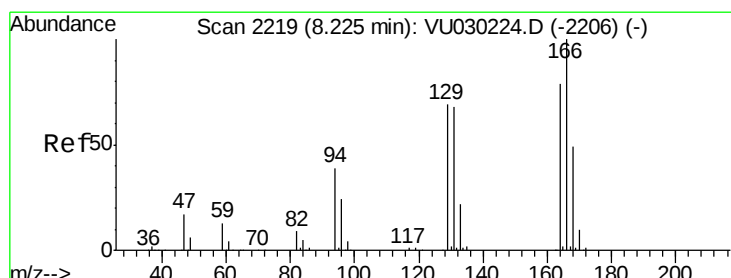
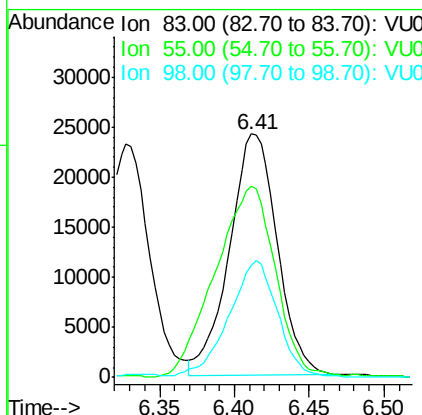
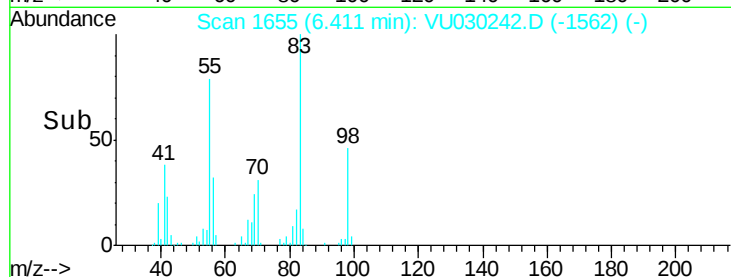
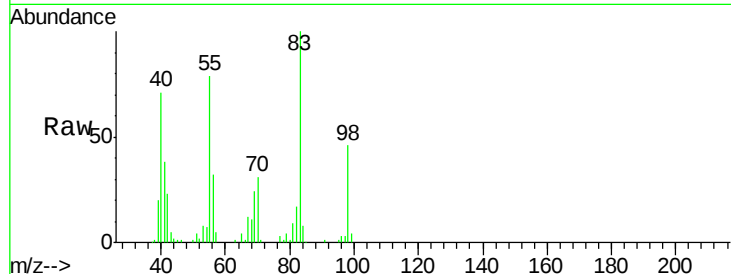
#35
Methvlcvclohexane
Concen: 8.434 ug/L
RT: 6.41 min Scan# 1655
Delta R.T. -0.00 min
Lab File: VU030242.D
Acq: 20 Mar 2019 22:49

Instrument :
MSVOA_U
ClientSampleId :
C09C8

Tot Ion	Ratio	Lower	Upper
83	100		
55	99.2	56.6	85.0#
98	49.4	37.0	55.4

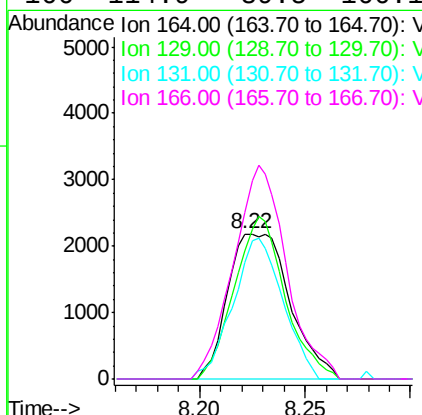
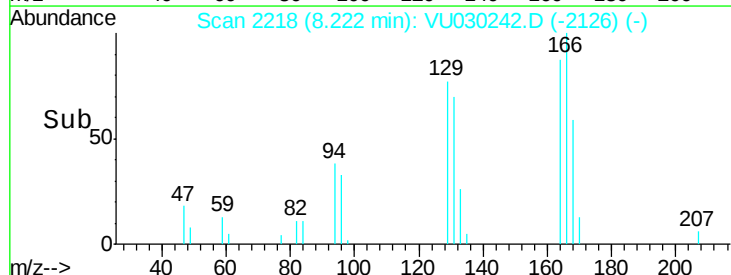
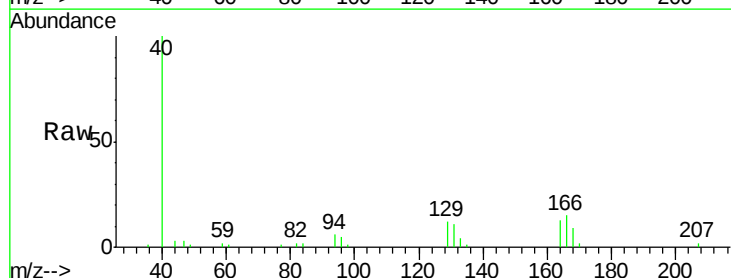
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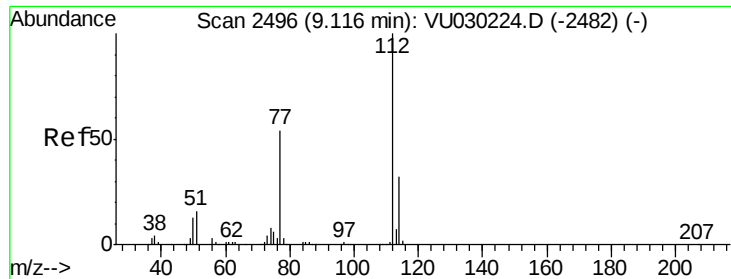
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#46
Tetrachloroethene
Concen: 1.300 ug/L m
RT: 8.22 min Scan# 2218
Delta R.T. -0.00 min
Lab File: VU030242.D
Acq: 20 Mar 2019 22:49

Tgt Ion	Ratio	Lower	Upper
164	100		
129	88.2	64.4	119.6
131	80.2	63.2	117.4
166	114.9	89.5	166.1





#51

Chlorobenzene

Concen: 2117.815 ug/L m

RT: 9.11 min Scan# 2495

Delta R.T. -0.00 min

Lab File: VU030242.D

Acq: 20 Mar 2019 22:49

Instrument :

MSVOA_U

ClientSampleId :

C09C8

Tot Ion:112 Resp:23572685

Ion Ratio Lower Upper

112 100

114 38.8 22.5 41.7

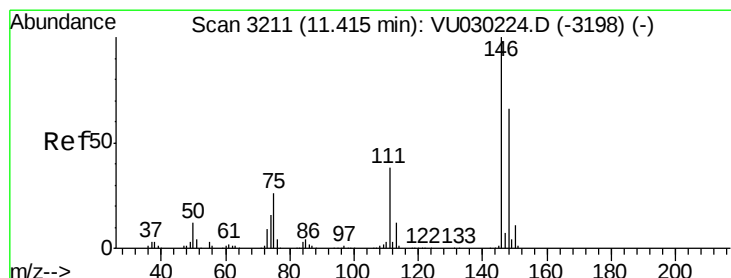
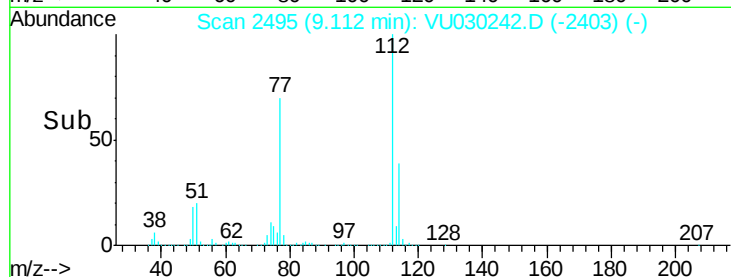
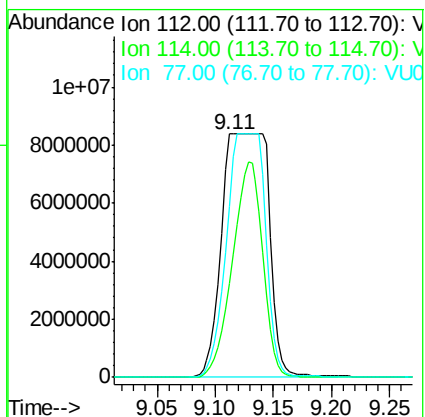
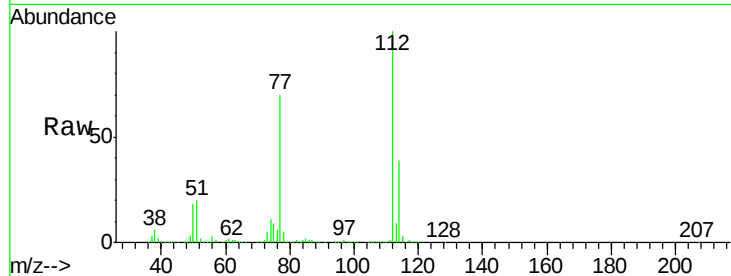
77 70.3 43.4 65.0#

Manual Integrations

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3/22/2019 12:14:46 PM



#62

1,3-Dichlorobenzene

Concen: 710.277 ug/L

RT: 11.42 min Scan# 3212

Delta R.T. 0.00 min

Lab File: VU030242.D

Acq: 20 Mar 2019 22:49

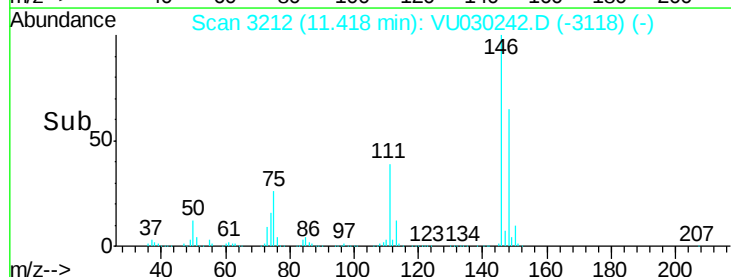
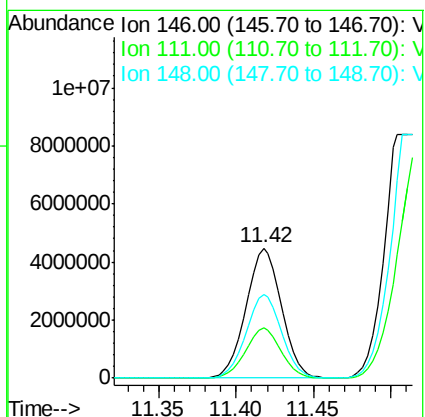
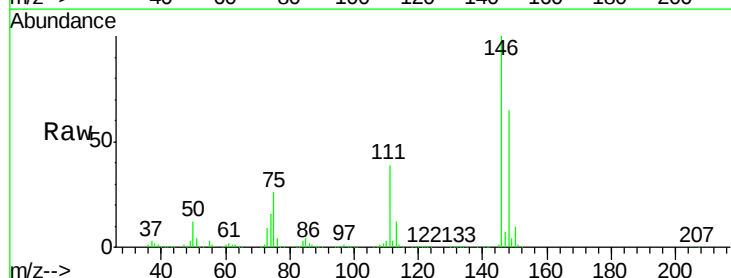
Tgt Ion:146 Resp: 7150176

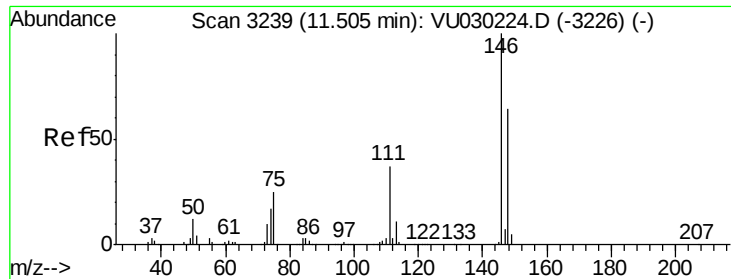
Ion Ratio Lower Upper

146 100

111 38.6 27.2 50.4

148 64.6 44.4 82.5





#63

1,4-Dichlorobenzene

Concen: 2258.346 ug/L m

RT: 11.50 min Scan# 3239

Delta R.T. -0.00 min

Lab File: VU030242.D

Acq: 20 Mar 2019 22:49

Instrument :

MSVOA_U

ClientSampled :

C09C8

Tot Ion:146 Resp:23581504

Ion Ratio Lower Upper

146 100

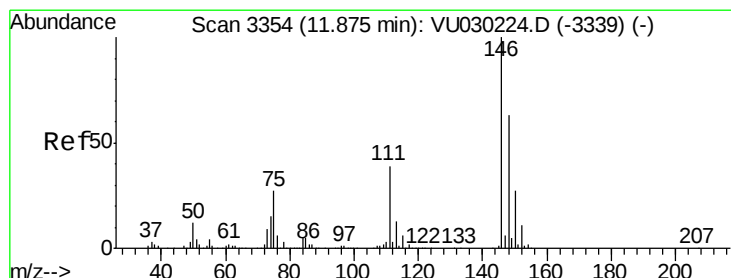
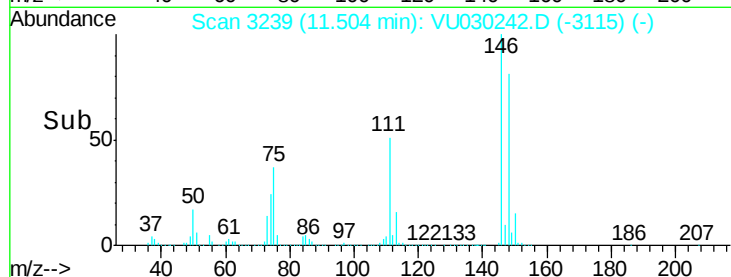
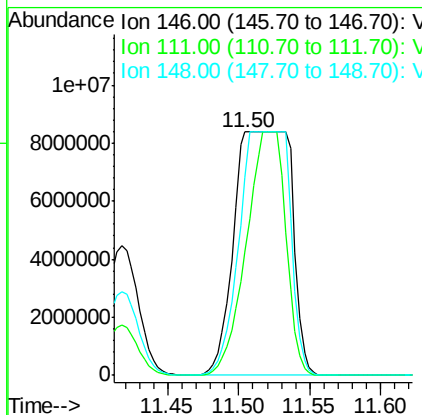
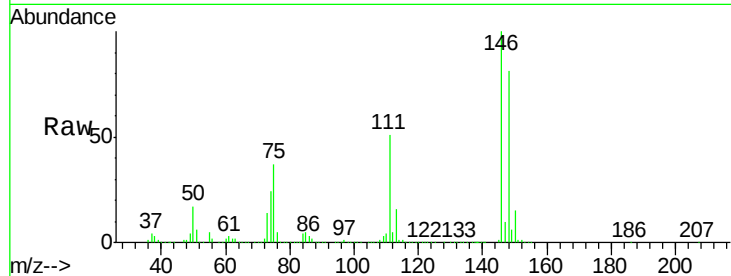
111 50.8 25.3 46.9#

148 81.2 44.7 82.9

Manual Integrations
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#65

1,2-Dichlorobenzene

Concen: 3388.121 ug/L m

RT: 11.88 min Scan# 3355

Delta R.T. 0.00 min

Lab File: VU030242.D

Acq: 20 Mar 2019 22:49

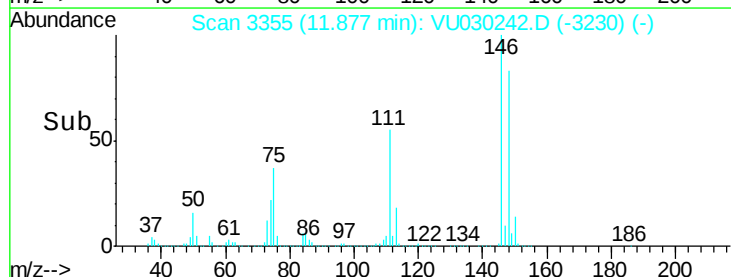
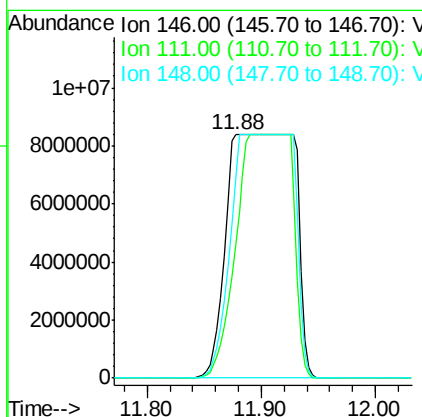
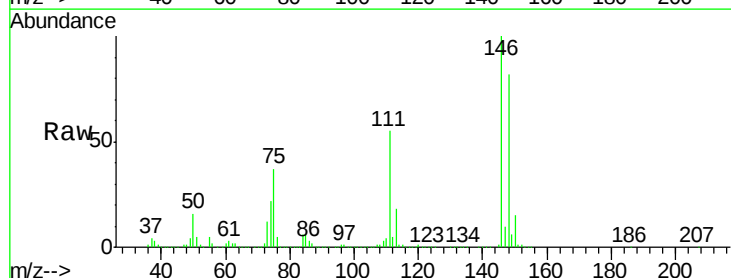
Tgt Ion:146 Resp:34847209

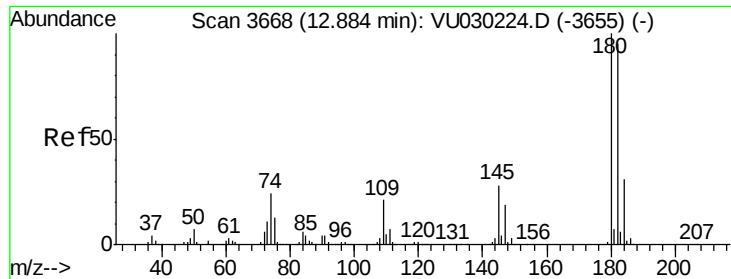
Ion Ratio Lower Upper

146 100

111 54.7 31.7 47.5#

148 82.4 52.0 78.0#





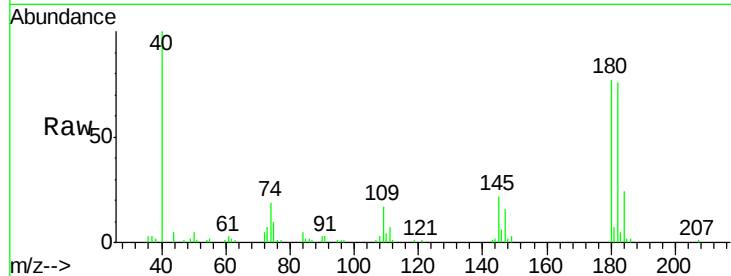
#67
 1,3,5-Trichlorobenzene
 Concen: 2.588 ug/L
 RT: 12.89 min Scan# 3669
 Delta R.T. 0.00 min
 Lab File: VU030242.D
 Acq: 20 Mar 2019 22:49

Instrument :
 MSVOA_U
 ClientSampleId :
 C09C8

Tot Ion	Ratio	Lower	Upper
180	100		
182	98.0	76.0	114.0
184	31.1	24.2	36.4
145	27.7	22.1	33.1

Manual Integrations
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 3/22/2019 12:14:46 PM

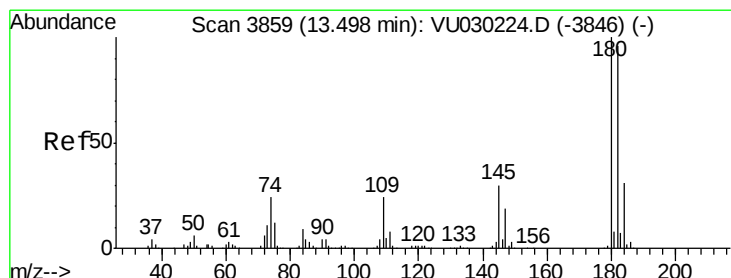
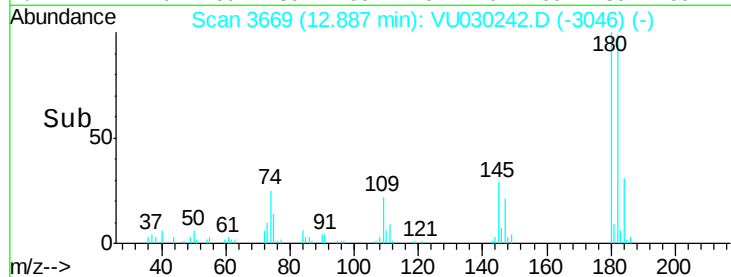
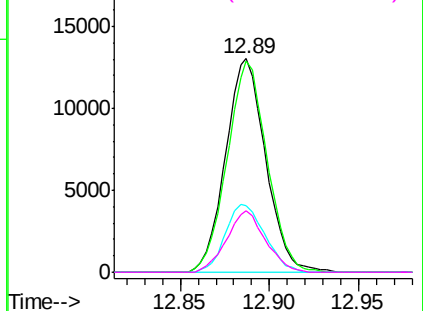


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

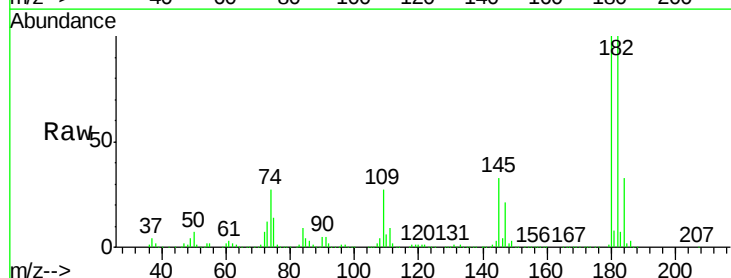
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 3322.668 ug/L m
 RT: 13.50 min Scan# 3860
 Delta R.T. 0.00 min
 Lab File: VU030242.D
 Acq: 20 Mar 2019 22:49

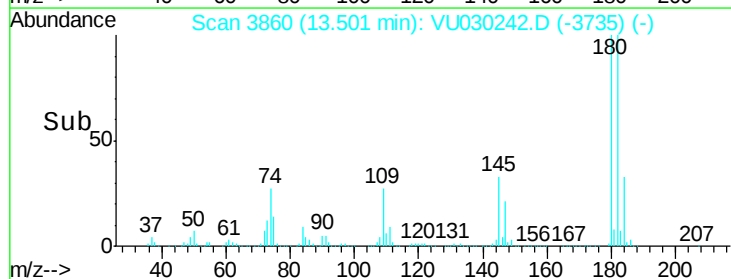
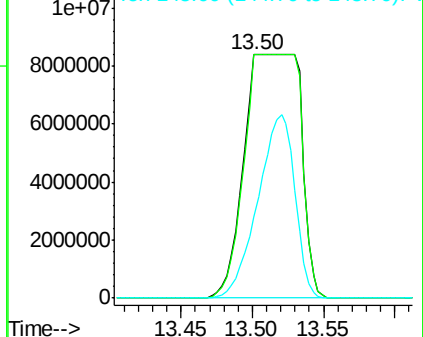
Tgt Ion	Ratio	Lower	Upper
180	100		
182	0.0	76.4	114.6#
145	0.0	22.7	34.1#

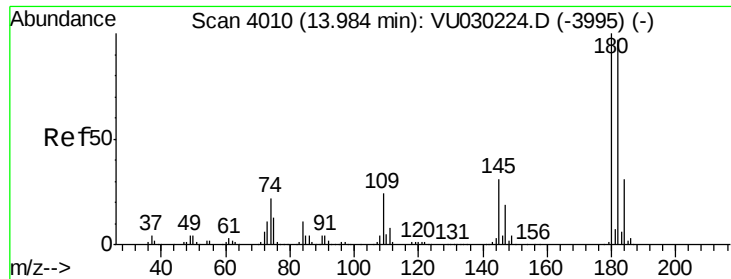


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#70
 1,2,3-Trichlorobenzene
 Concen: 688.435 ug/L
 RT: 13.99 min Scan# 4011
 Delta R.T. 0.00 min
 Lab File: VU030242.D
 Acq: 20 Mar 2019 22:49

Instrument :
 MSVOA_U
 ClientSampleId :
 C09C8

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.0	75.9	113.9
145	31.0	24.1	36.1

Manual Integrations
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