

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV030920\
 Data File : VV014775.D
 Acq On : 09 Mar 2020 14:36
 Operator : SY/MD
 Sample : L1834-17
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 C0DL0

Quant Time: Mar 10 14:48:18 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM030620WMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Mar 10 14:44:37 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	416063	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	413980	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.37	152	41	50.00	ug/L	0.11

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	125501	44.57	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	89.14%
7) Chloroethane-d5	1.58	69	104449	46.92	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	93.84%
11) 1,1-Dichloroethene-d2	2.12	63	166698	35.63	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	71.26%
21) 2-Butanone-d5	3.93	46	198275	94.42	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	94.42%
24) Chloroform-d	4.38	84	259864	48.74	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.48%
26) 1,2-Dichloroethane-d4	5.06	65	179362	49.53	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.06%
32) Benzene-d6	5.08	84	553181	50.61	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.22%
36) 1,2-Dichloropropane-d6	6.10	67	171478	47.33	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	94.66%
41) Toluene-d8	7.34	98	529407	49.45	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.90%
43) trans-1,3-Dichloropropene-	7.64	79	80855	45.71	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	91.42%
47) 2-Hexanone-d5	8.11	63	161046	100.12	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	100.12%
57) 1,1,2,2-Tetrachloroethane-	10.24	84	233995	46.95	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	93.90%
64) 1,2-Dichlorobenzene-d4	11.65	152	229537	282459.16	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	564918.32%#

Target Compounds

						Qvalue
8) Chloroethane	1.61	64	16520	9.16	ug/L #	50
10) 1,1,2-Trichloro-1,2,2-trif	2.12	101	1568	0.68	ug/L #	20
12) 1,1-Dichloroethene	2.12	96	1851	0.82	ug/L #	1
25) Chloroform	4.41	83	41228	7.30	ug/L	95
31) Carbon tetrachloride	4.85	117	7485	1.84	ug/L	98
33) Benzene	5.13	78	3772579	314.56	ug/L	100
39) cis-1,3-Dichloropropene	7.01	75	4920	0.97	ug/L #	77
48) 2-Hexanone	8.11	43	18449	4.99	ug/L #	75
51) Chlorobenzene	8.90	112	5211146	612.13	ug/L	99
61) Bromoform	9.75	173	418	939.75	ug/L #	93
62) 1,3-Dichlorobenzene	11.20	146	928508	700320.11	ug/L	98
63) 1,4-Dichlorobenzene	11.30	146	5904132	4420052.17	ug/L	97
65) 1,2-Dichlorobenzene	11.67	146	10163794	7699953.17	ug/L	96
66) 1,2-Dibromo-3-chloropropan	12.42	75	2595	11583.46	ug/L #	2
67) 1,3,5-Trichlorobenzene	13.28	180	1102425	1075119.76	ug/L	99
68) 1,2,4-trichlorobenzene	13.28	180	1102425	1169715.51	ug/L	100
69) Naphthalene	13.52	128	1345	947.96	ug/L #	81

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QLast Update : Tue Mar 10 14:44:37 2020
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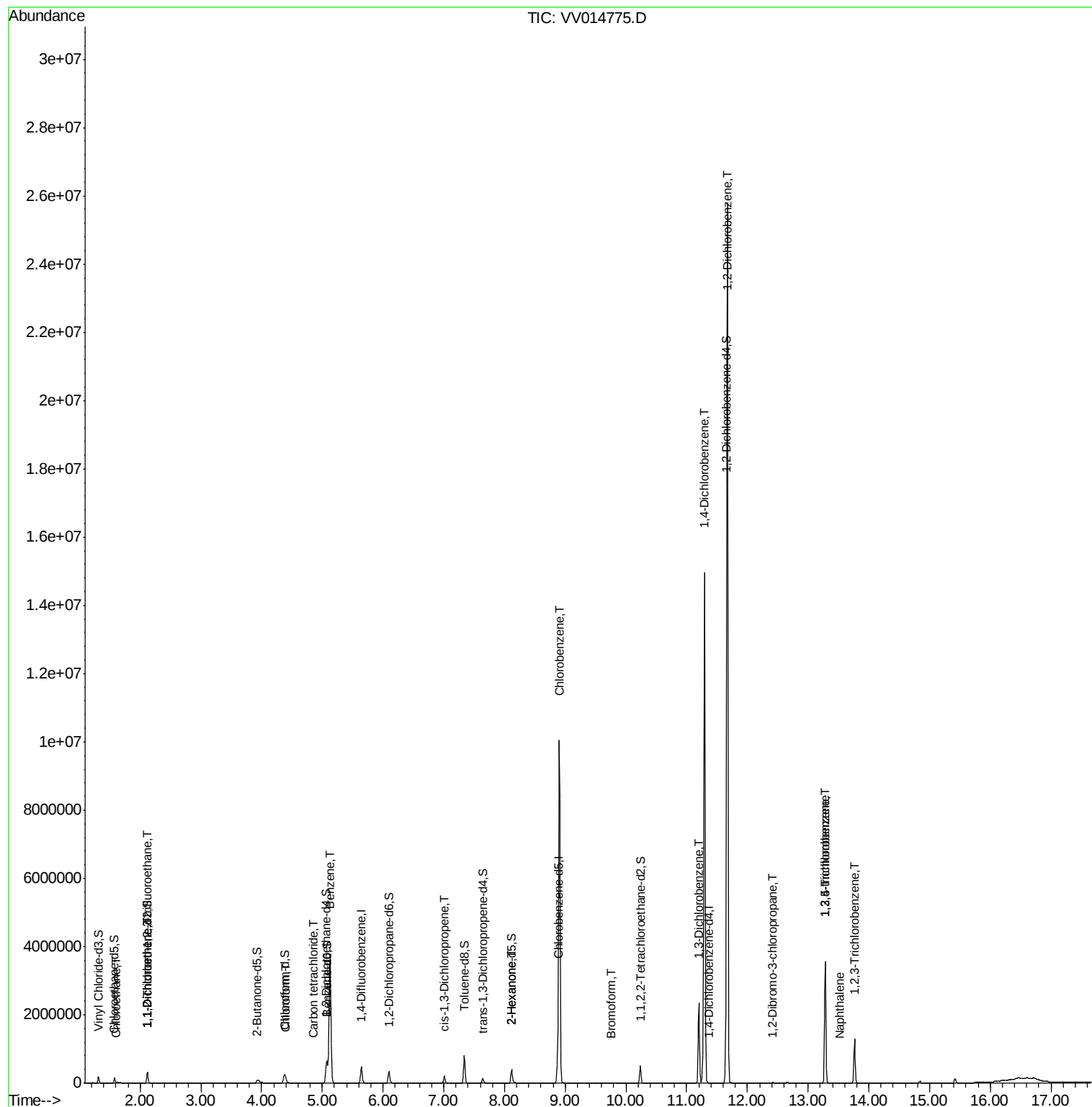
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 1,2,3-Trichlorobenzene	13.77	180	401657	427559.85	ug/L	100

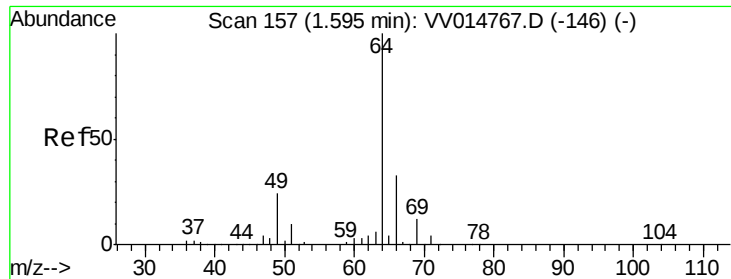
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#8

Chloroethane

Concen: 9.16 ug/L

RT: 1.61 min Scan# 162

Delta R.T. 0.02 min

Lab File: VV014775.D

Acq: 09 Mar 2020 14:36

Instrument :

MSVOA_V

ClientSampleId :

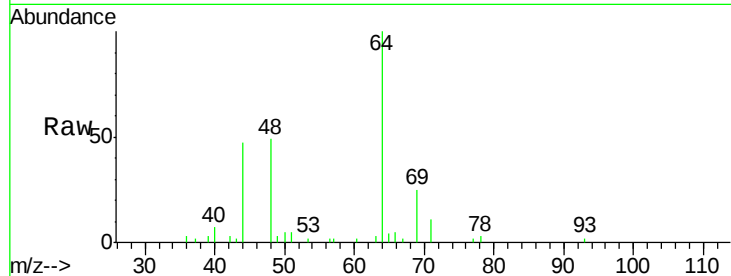
C0DL0

Tgt Ion: 64 Resp: 16520

Ion Ratio Lower Upper

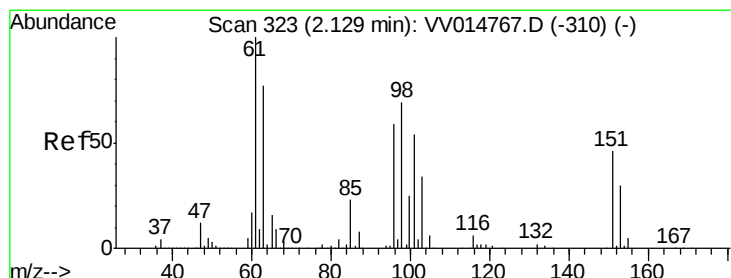
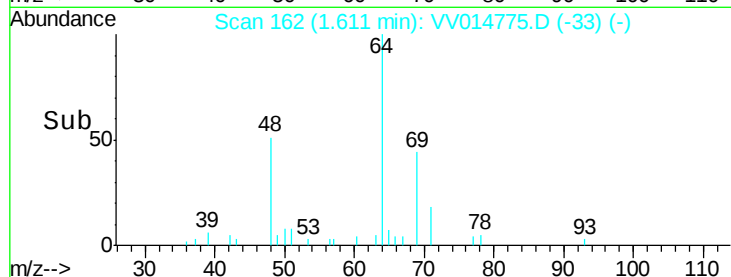
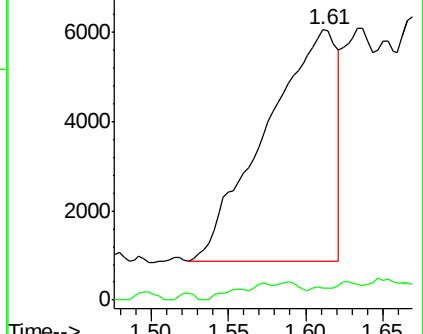
64 100

66 4.6 22.6 42.0#



Abundance Ion 64.00 (63.70 to 64.70): VV014767.D (-146) (-)

Ion 66.00 (65.70 to 66.70): VV014767.D (-146) (-)



#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.68 ug/L

RT: 2.12 min Scan# 320

Delta R.T. -0.01 min

Lab File: VV014775.D

Acq: 09 Mar 2020 14:36

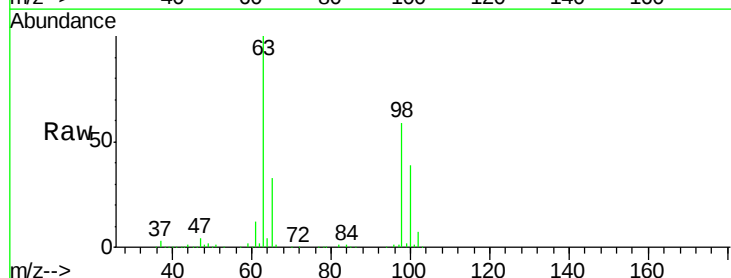
Tgt Ion: 101 Resp: 1568

Ion Ratio Lower Upper

101 100

85 7.5 35.0 52.6#

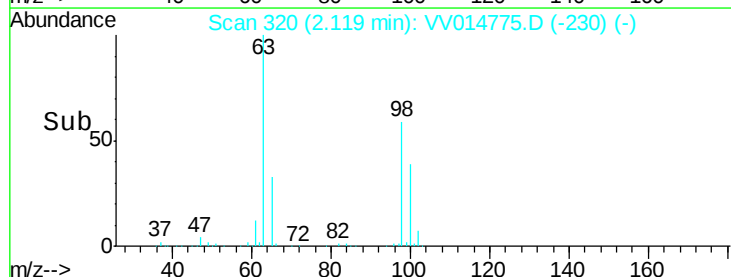
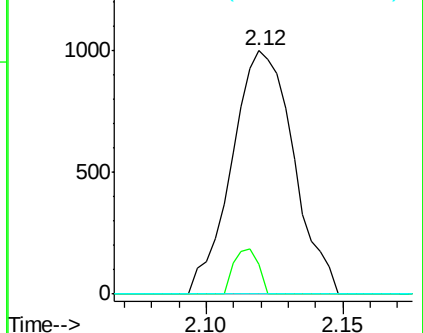
151 0.0 66.4 99.6#

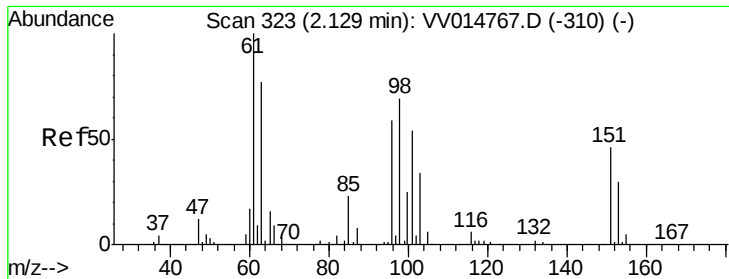


Abundance Ion 101.00 (100.70 to 101.70): VV014767.D (-310) (-)

Ion 85.00 (84.70 to 85.70): VV014767.D (-310) (-)

Ion 151.00 (150.70 to 151.70): VV014767.D (-310) (-)

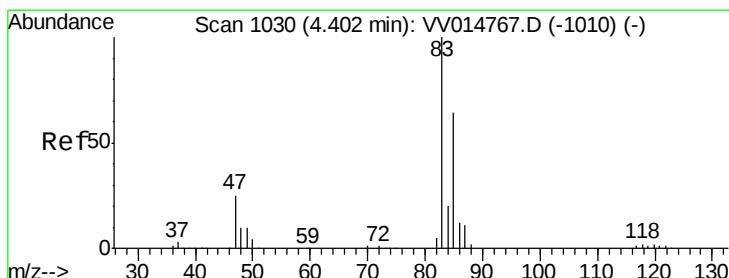
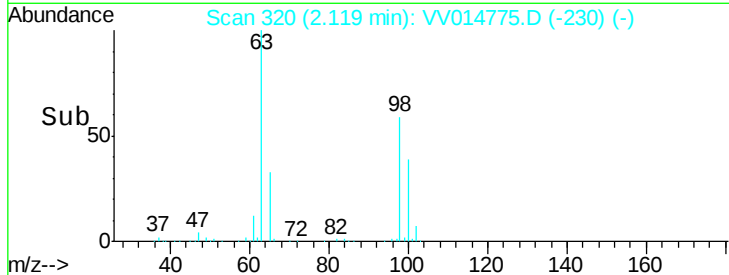
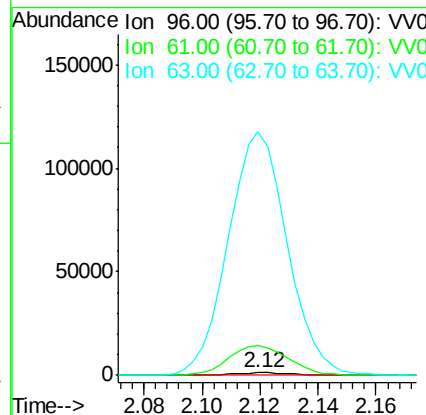
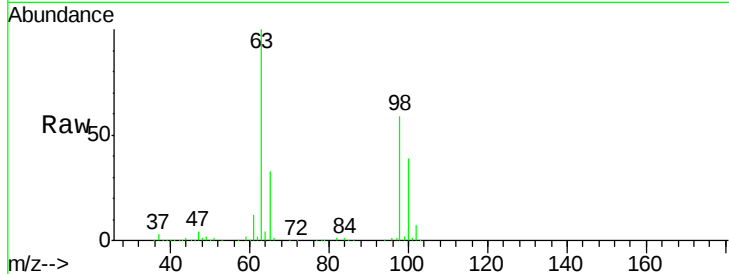




#12
 1,1-Dichloroethene
 Concen: 0.82 ug/L
 RT: 2.12 min Scan# 320
 Delta R.T. -0.01 min
 Lab File: VV014775.D
 Acq: 09 Mar 2020 14:36

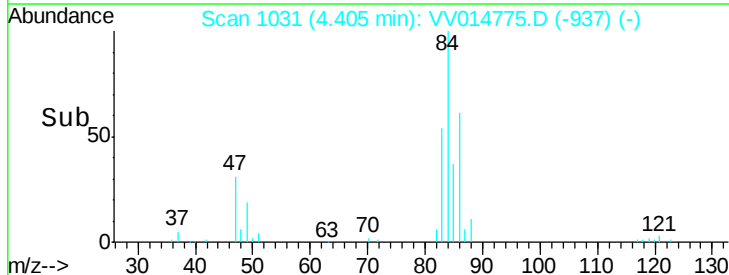
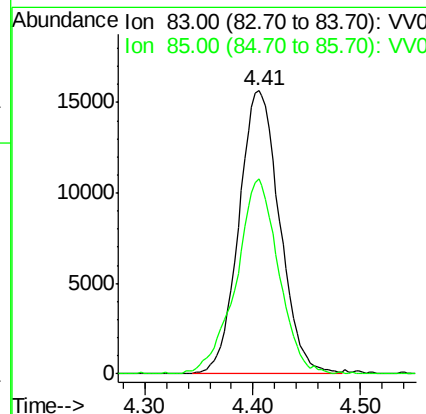
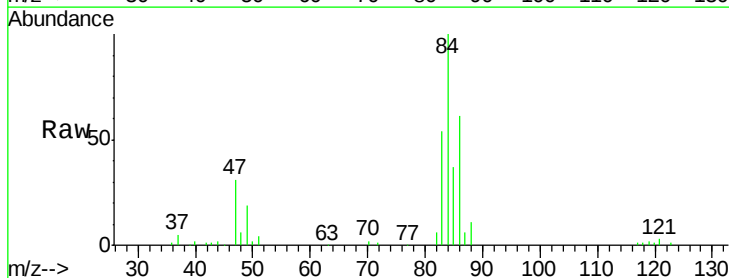
Instrument :
 MSVOA_V
 ClientSampleID :
 C0DL0

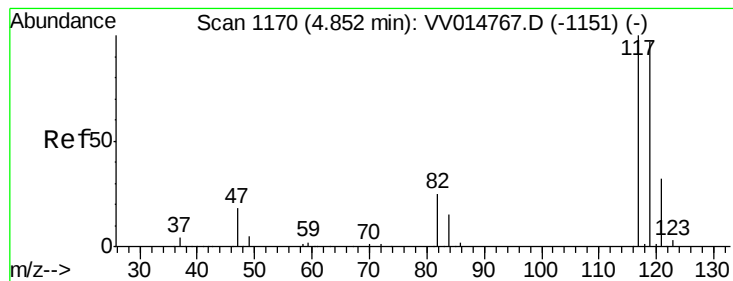
Tgt Ion: 96 Resp: 1851
 Ion Ratio Lower Upper
 96 100
 61 1240.2 118.4 220.0#
 63 10116.6 88.4 164.2#



#25
 Chloroform
 Concen: 7.30 ug/L
 RT: 4.41 min Scan# 1031
 Delta R.T. 0.00 min
 Lab File: VV014775.D
 Acq: 09 Mar 2020 14:36

Tgt Ion: 83 Resp: 41228
 Ion Ratio Lower Upper
 83 100
 85 68.8 45.1 83.9





#31

Carbon tetrachloride

Concen: 1.84 ug/L

RT: 4.85 min Scan# 1170

Delta R.T. 0.00 min

Lab File: VV014775.D

Acq: 09 Mar 2020 14:36

Instrument :

MSVOA_V

ClientSampleId :

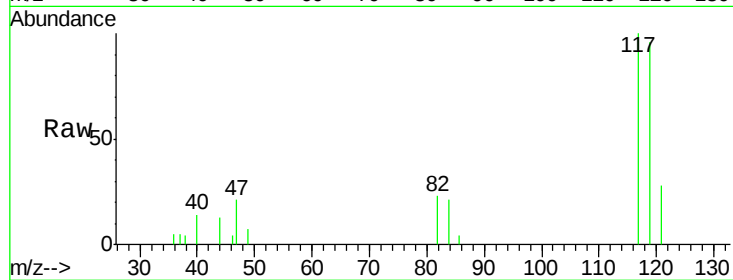
C0DL0

Tgt Ion:117 Resp: 7485

Ion Ratio Lower Upper

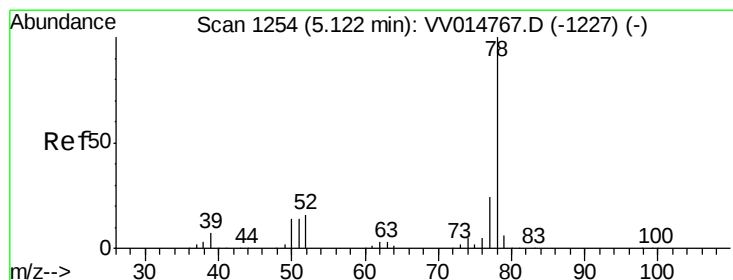
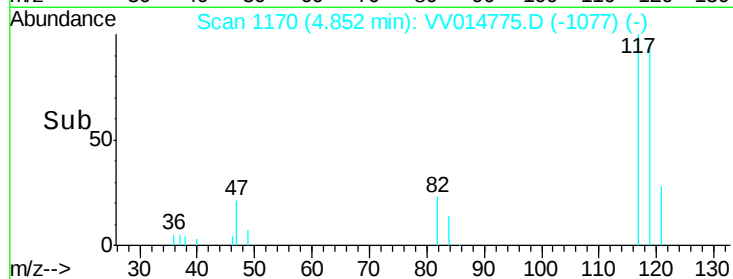
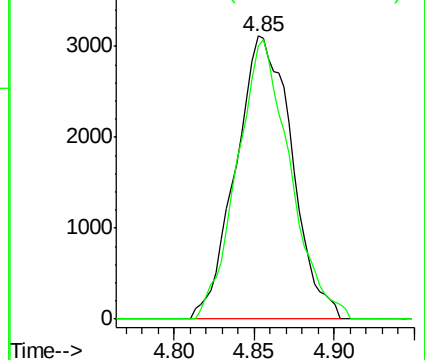
117 100

119 93.2 76.5 114.7



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 314.56 ug/L

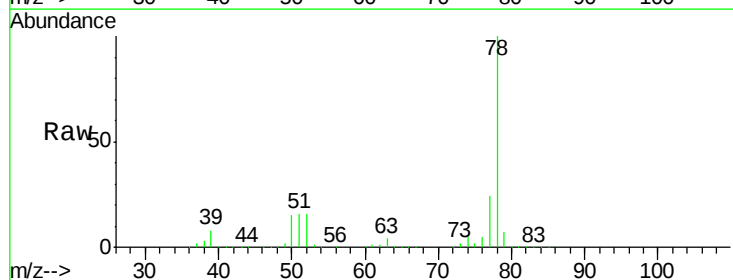
RT: 5.13 min Scan# 1255

Delta R.T. 0.00 min

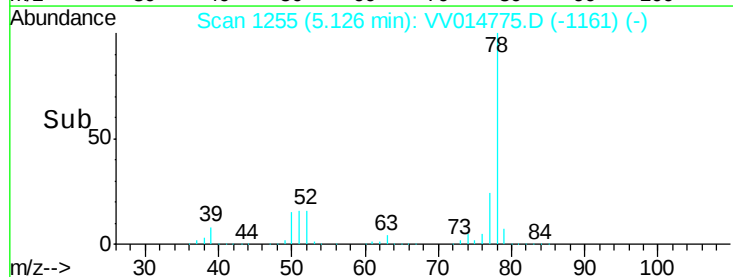
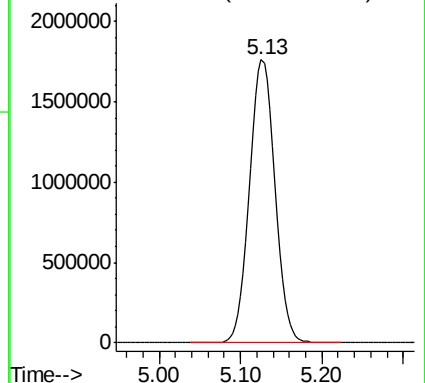
Lab File: VV014775.D

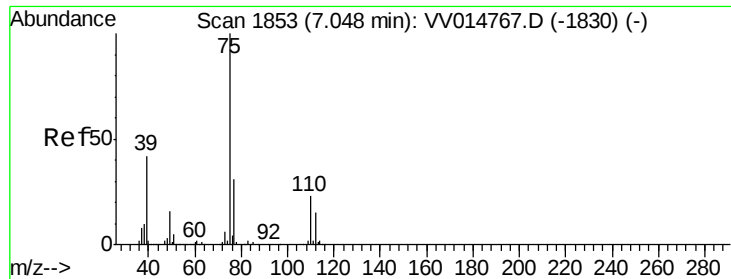
Acq: 09 Mar 2020 14:36

Tgt Ion: 78 Resp: 3772579



Abundance Ion 78.00 (77.70 to 78.70): VV0

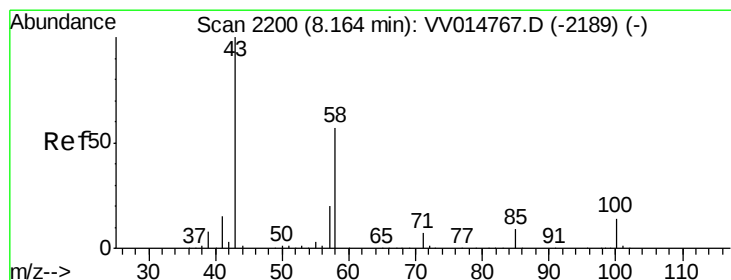
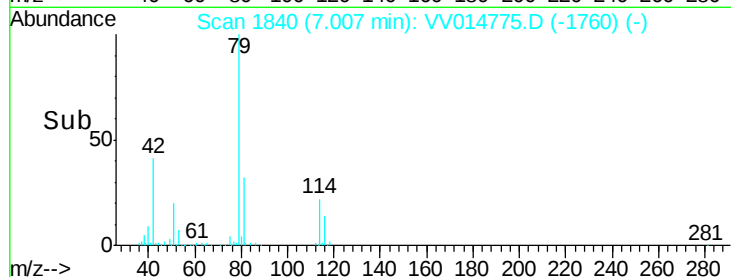
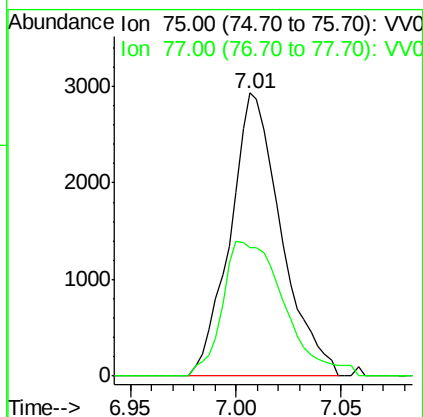
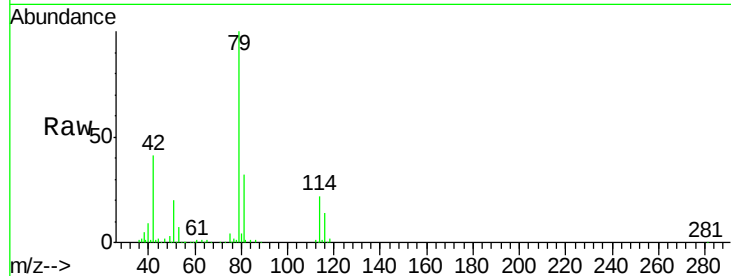




#39
 cis-1,3-Dichloropropene
 Concen: 0.97 ug/L
 RT: 7.01 min Scan# 1840
 Delta R.T. -0.04 min
 Lab File: VV014775.D
 Acq: 09 Mar 2020 14:36

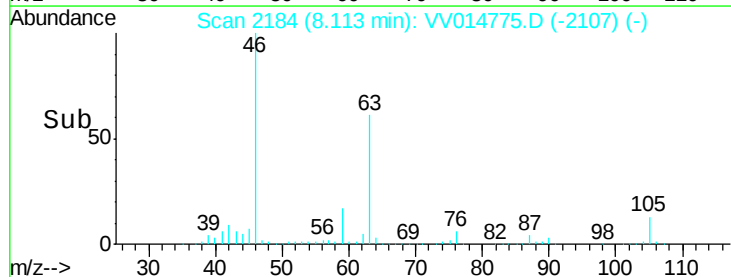
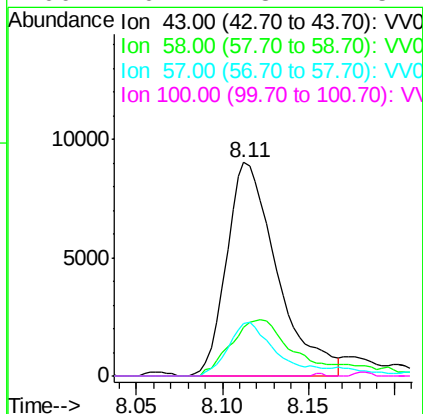
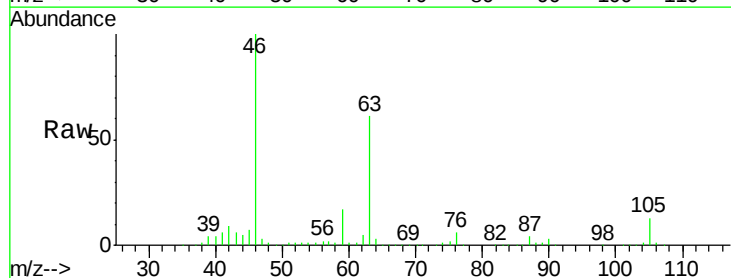
Instrument :
 MSVOA_V
 ClientSampleId :
 C0DL0

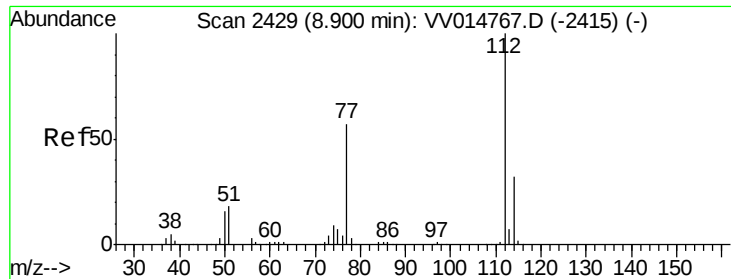
Tgt Ion: 75 Resp: 4920
 Ion Ratio Lower Upper
 75 100
 77 45.6 22.8 42.4#



#48
 2-Hexanone
 Concen: 4.99 ug/L
 RT: 8.11 min Scan# 2184
 Delta R.T. -0.05 min
 Lab File: VV014775.D
 Acq: 09 Mar 2020 14:36

Tgt Ion: 43 Resp: 18449
 Ion Ratio Lower Upper
 43 100
 58 31.2 43.3 64.9#
 57 22.2 15.6 23.4
 100 0.2 8.7 13.1#





#51

Chlorobenzene

Concen: 612.13 ug/L

RT: 8.90 min Scan# 2430

Delta R.T. 0.00 min

Lab File: VV014775.D

Acq: 09 Mar 2020 14:36

Instrument :

MSVOA_V

ClientSampled :

C0DL0

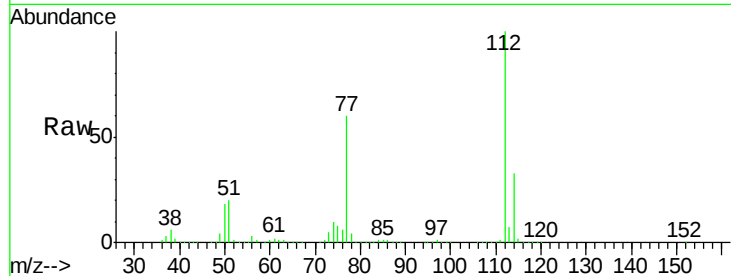
Tgt Ion:112 Resp: 5211146

Ion Ratio Lower Upper

112 100

114 33.1 22.1 41.1

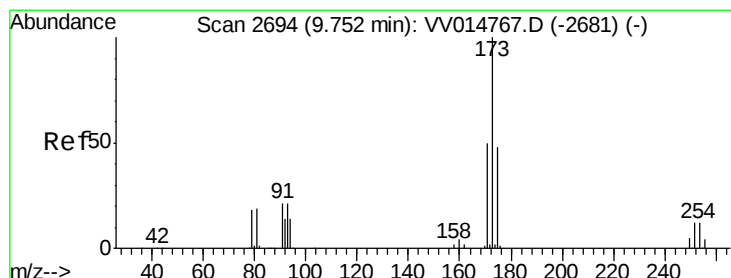
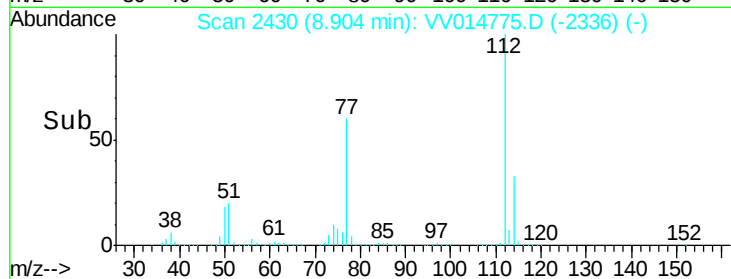
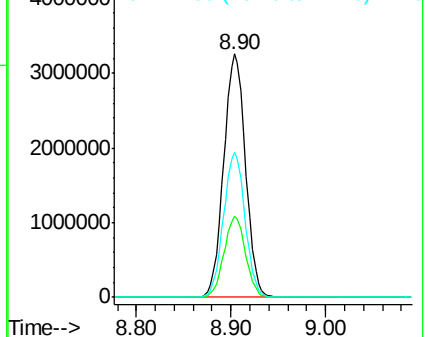
77 59.7 47.8 71.8



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): V



#61

Bromoform

Concen: 939.75 ug/L

RT: 9.75 min Scan# 2694

Delta R.T. 0.00 min

Lab File: VV014775.D

Acq: 09 Mar 2020 14:36

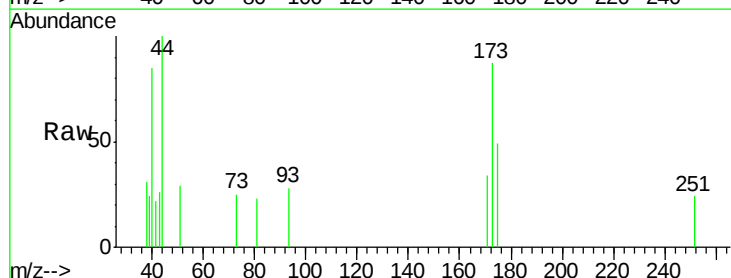
Tgt Ion:173 Resp: 418

Ion Ratio Lower Upper

173 100

175 50.5 39.0 58.4

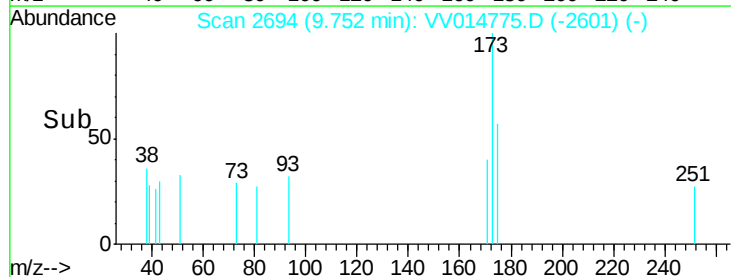
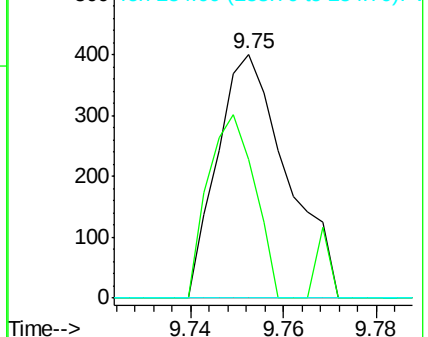
254 0.0 8.6 13.0#

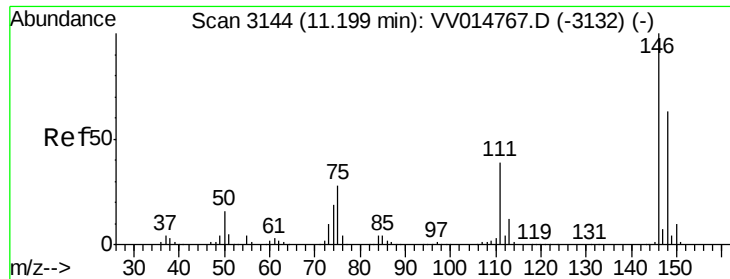


Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V

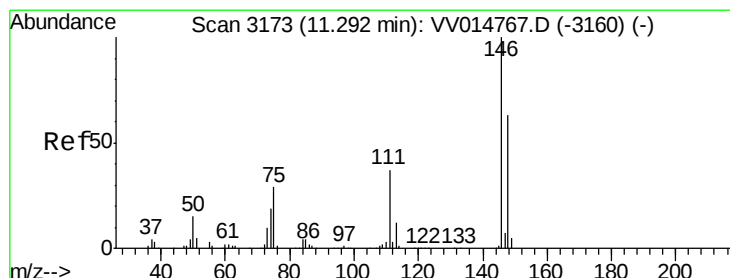
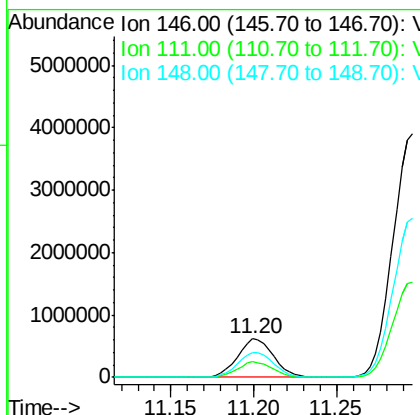
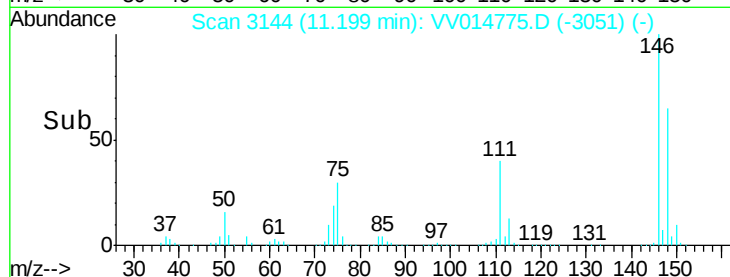
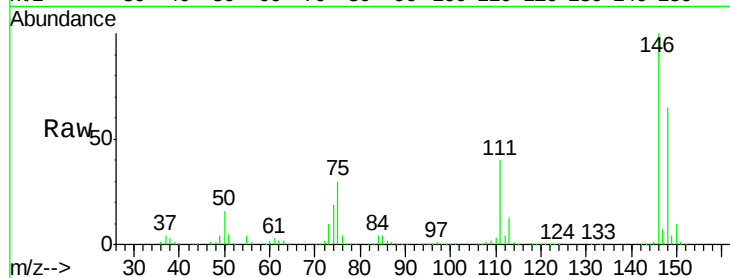




#62
 1,3-Dichlorobenzene
 Concen: 700320.11 ug/L
 RT: 11.20 min Scan# 3144
 Delta R.T. 0.00 min
 Lab File: VV014775.D
 Acq: 09 Mar 2020 14:36

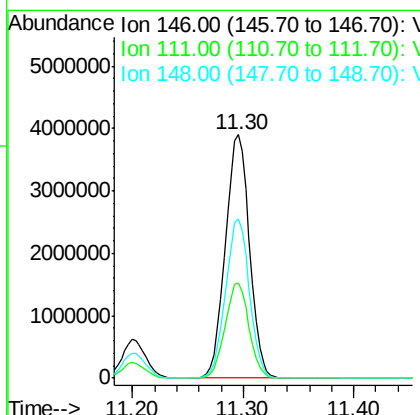
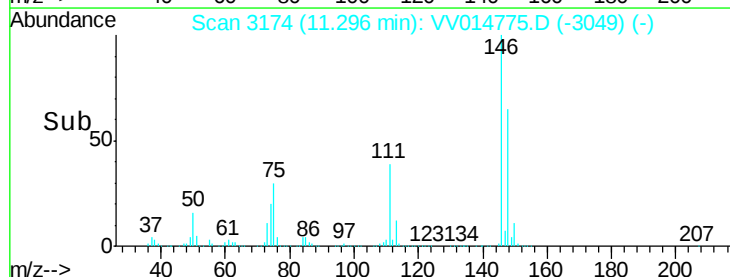
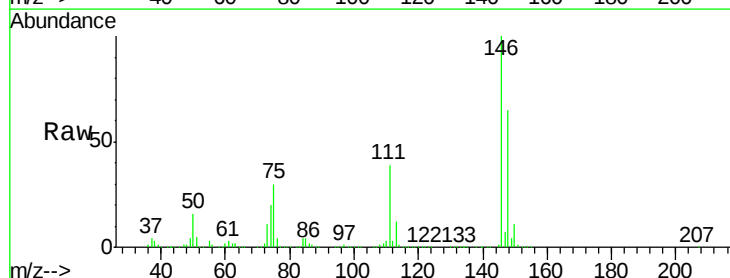
Instrument :
 MSVOA_V
 ClientSampleId :
 C0DL0

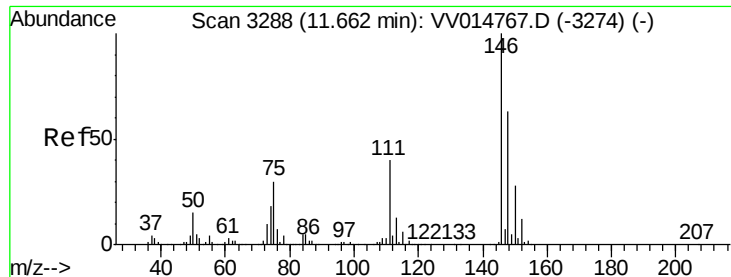
Tgt Ion:146 Resp: 928508
 Ion Ratio Lower Upper
 146 100
 111 39.9 27.2 50.4
 148 64.9 44.2 82.2



#63
 1,4-Dichlorobenzene
 Concen: 4420052.17 ug/L
 RT: 11.30 min Scan# 3174
 Delta R.T. 0.00 min
 Lab File: VV014775.D
 Acq: 09 Mar 2020 14:36

Tgt Ion:146 Resp: 5904132
 Ion Ratio Lower Upper
 146 100
 111 39.2 26.3 48.9
 148 65.4 44.0 81.8

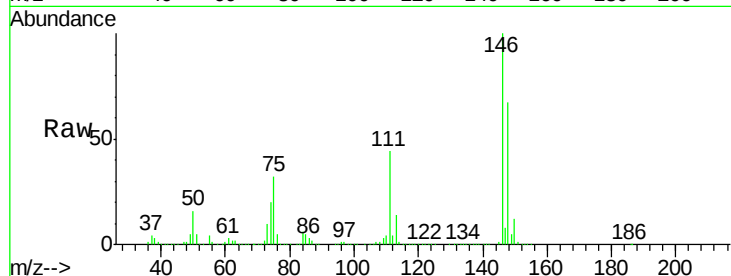




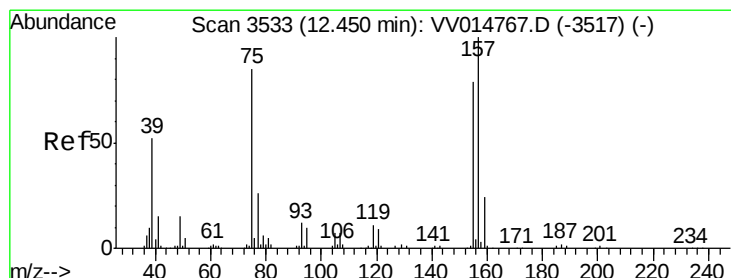
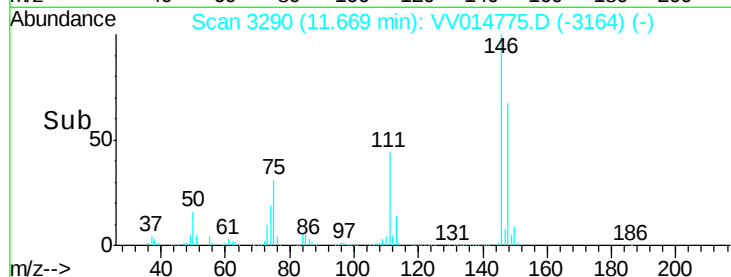
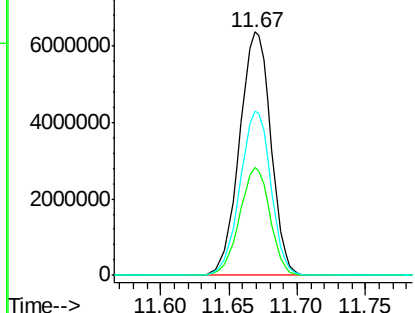
#65
 1,2-Dichlorobenzene
 Concen: 7699953.17 ug/L
 RT: 11.67 min Scan# 3290
 Delta R.T. 0.01 min
 Lab File: VV014775.D
 Acq: 09 Mar 2020 14:36

Instrument :
 MSVOA_V
 ClientSampled :
 C0DL0

Tgt Ion:146 Resp:10163794
 Ion Ratio Lower Upper
 146 100
 111 44.2 33.9 50.9
 148 67.5 51.4 77.0

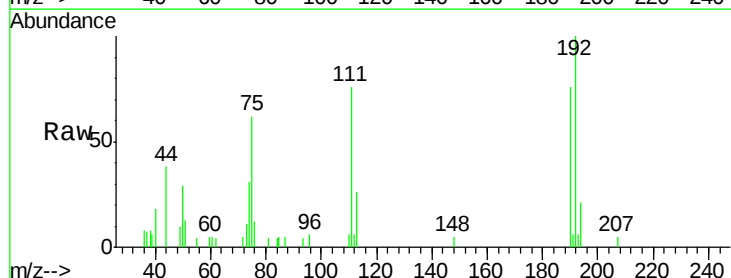


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

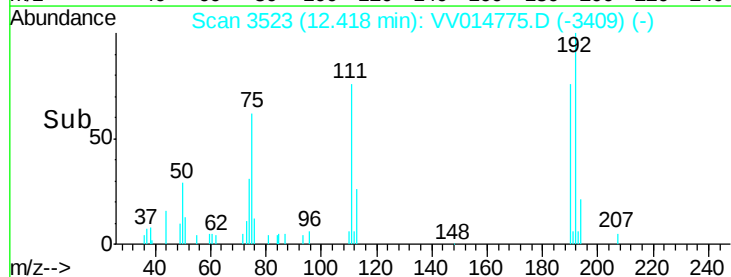
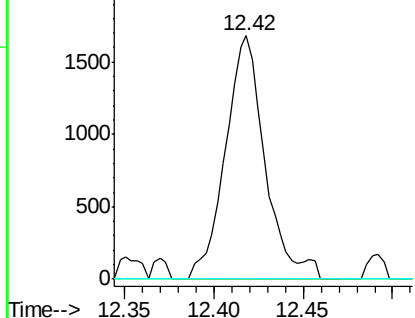


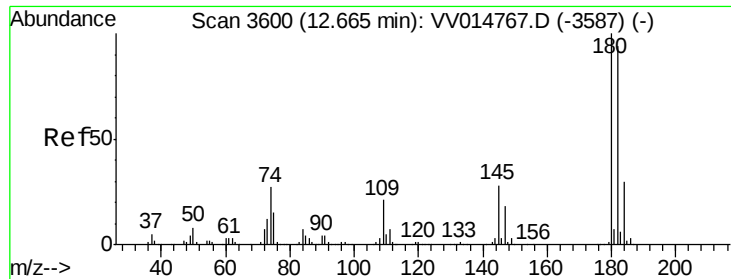
#66
 1,2-Dibromo-3-chloropropane
 Concen: 11583.46 ug/L
 RT: 12.42 min Scan# 3523
 Delta R.T. -0.03 min
 Lab File: VV014775.D
 Acq: 09 Mar 2020 14:36

Tgt Ion: 75 Resp: 2595
 Ion Ratio Lower Upper
 75 100
 155 0.0 66.4 99.6#
 157 0.0 86.1 129.1#



Abundance Ion 75.00 (74.70 to 75.70): VV0
 Ion 155.00 (154.70 to 155.70): V
 Ion 157.00 (156.70 to 157.70): V

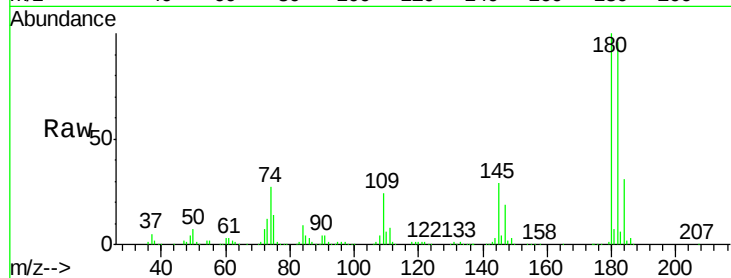




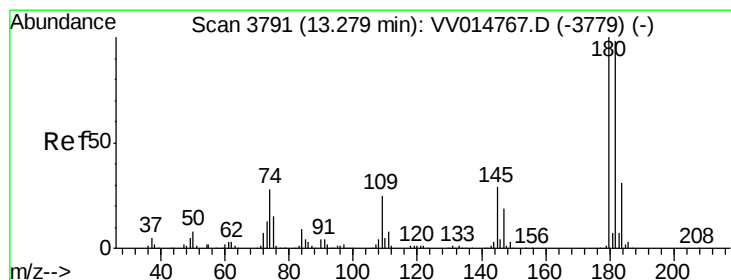
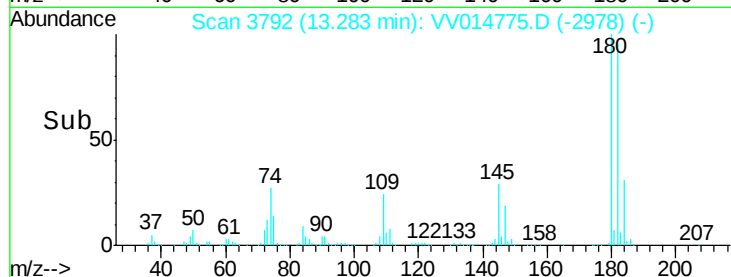
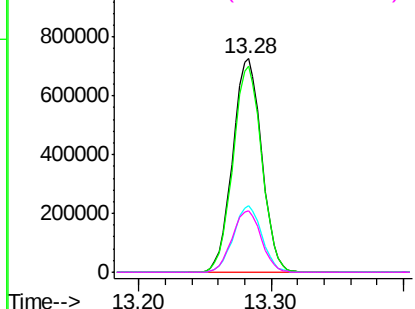
#67
 1,3,5-Trichlorobenzene
 Concen: 1075119.76 ug/L
 RT: 13.28 min Scan# 3792
 Delta R.T. 0.62 min
 Lab File: VV014775.D
 Acq: 09 Mar 2020 14:36

Instrument :
 MSVOA_V
 ClientSampleId :
 C0DL0

Tgt Ion:180 Resp: 1102425
 Ion Ratio Lower Upper
 180 100
 182 95.8 75.6 113.4
 184 30.6 24.8 37.2
 145 28.9 23.3 34.9

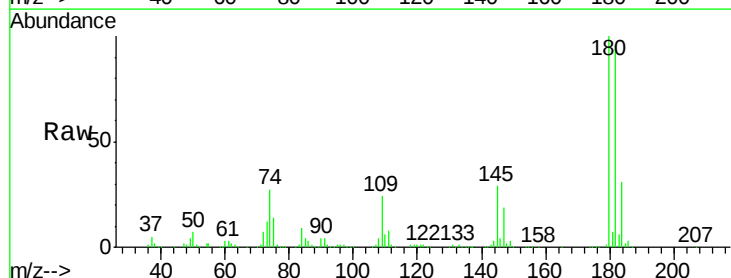


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

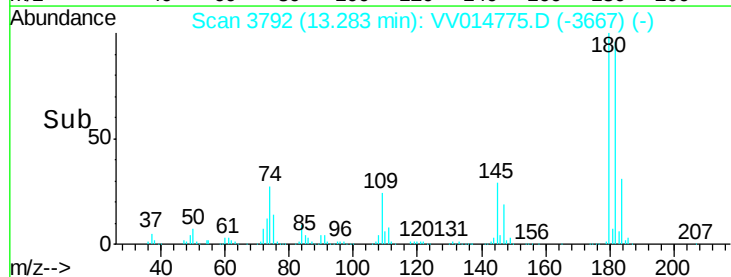
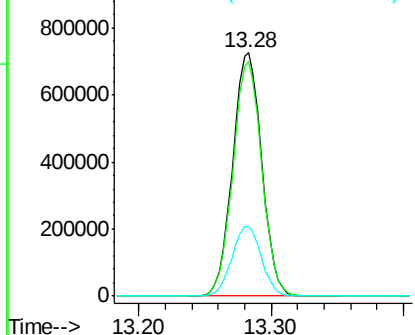


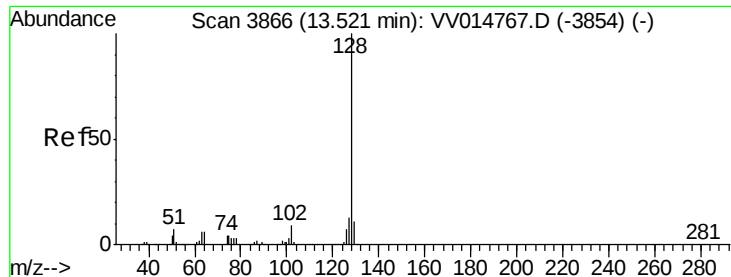
#68
 1,2,4-trichlorobenzene
 Concen: 1169715.51 ug/L
 RT: 13.28 min Scan# 3792
 Delta R.T. 0.00 min
 Lab File: VV014775.D
 Acq: 09 Mar 2020 14:36

Tgt Ion:180 Resp: 1102425
 Ion Ratio Lower Upper
 180 100
 182 95.8 76.6 114.8
 145 28.9 23.4 35.0



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





#69

Naphthalene

Concen: 947.96 ug/L

RT: 13.52 min Scan# 3867

Delta R.T. 0.00 min

Lab File: VV014775.D

Acq: 09 Mar 2020 14:36

Instrument :

MSVOA_V

ClientSampled :

C0DL0

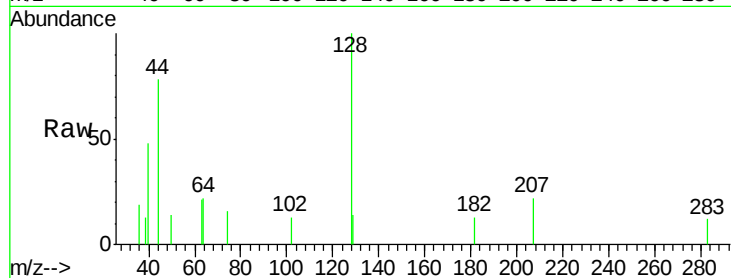
Tgt Ion:128 Resp: 1345

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

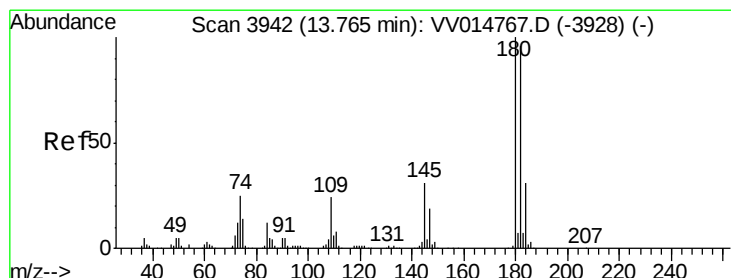
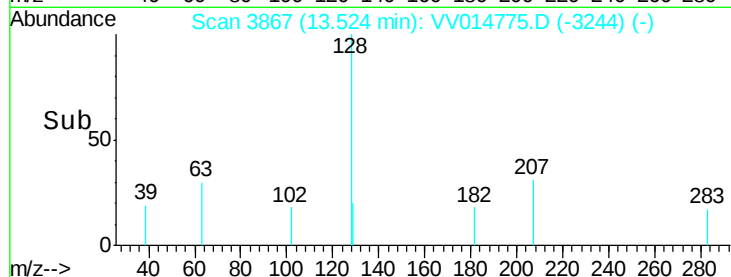
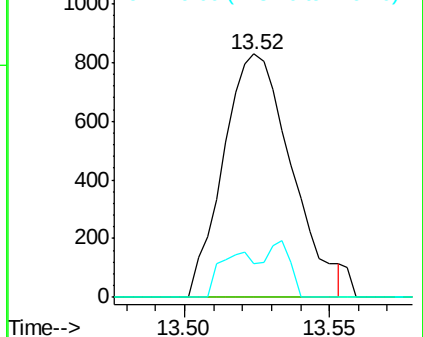
129 9.4 8.5 12.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 427559.85 ug/L

RT: 13.77 min Scan# 3942

Delta R.T. 0.00 min

Lab File: VV014775.D

Acq: 09 Mar 2020 14:36

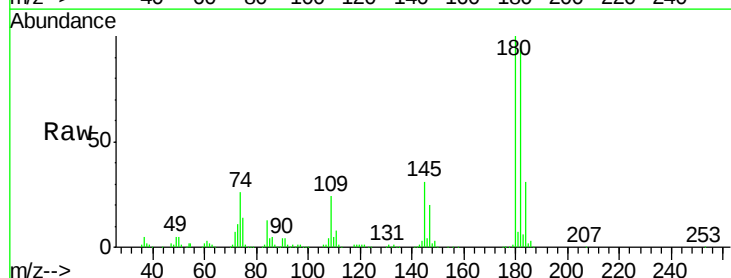
Tgt Ion:180 Resp: 401657

Ion Ratio Lower Upper

180 100

182 95.8 76.5 114.7

145 30.6 25.0 37.4



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

