

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX122319\
 Data File : VX014203.D
 Acq On : 23 Dec 2019 15:36
 Operator : JC/SP
 Sample : K6393-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MH-F

Quant Time: Dec 24 01:30:57 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121319W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 17 03:01:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	574033	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	881988	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	796913	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	363736	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	317985	48.88	ug/l	0.00
Spiked Amount			Recovery	=	97.76%	
35) Dibromofluoromethane	5.49	113	265065	49.44	ug/l	0.00
Spiked Amount			Recovery	=	98.88%	
50) Toluene-d8	8.71	98	1034621	49.57	ug/l	0.00
Spiked Amount			Recovery	=	99.14%	
62) 4-Bromofluorobenzene	11.13	95	358234	46.95	ug/l	0.00
Spiked Amount			Recovery	=	93.90%	

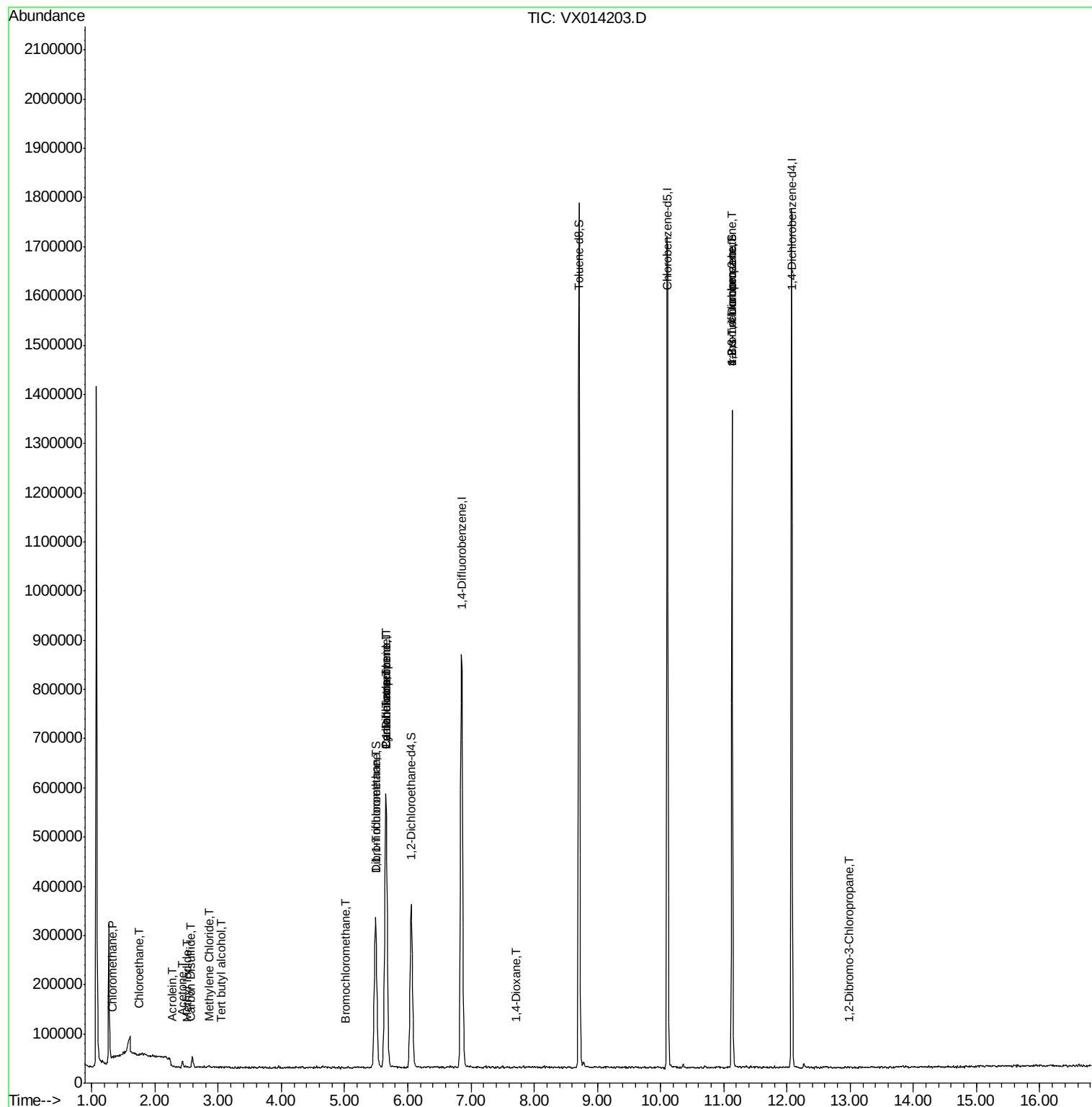
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1563	0.227	ug/l #	54
6) Chloroethane	1.75	64	1911	0.426	ug/l #	63
10) Methyl Iodide	2.51	142	417	2.676	ug/l #	1
11) Tert butyl alcohol	3.03	59	1512	1.076	ug/l #	72
13) Acrolein	2.28	56	239	0.297	ug/l #	14
16) Acetone	2.43	43	11309	2.678	ug/l	95
17) Carbon Disulfide	2.56	76	1918	0.873	ug/l #	41
20) Methylene Chloride	2.85	84	3350	0.504	ug/l #	89
28) Bromochloromethane	5.01	49	301	0.525	ug/l #	1
31) Cyclohexane	5.65	56	11808	1.215	ug/l #	1
32) 1,1,1-Trichloroethane	5.49	97	2306	0.261	ug/l #	38
36) 1,1-Dichloropropene	5.65	75	39232	4.848	ug/l #	52
38) Carbon Tetrachloride	5.65	117	50981	6.915	ug/l #	16
49) 1,4-Dioxane	7.73	88	183	1.242	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	171612	21.732	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	171612	61.340	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	12.98	75	410	0.209	ug/l	53

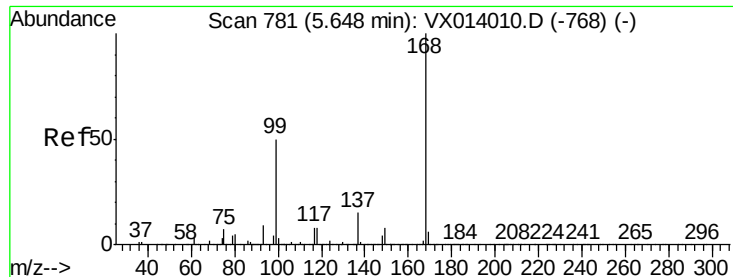
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX014203.D

Acq: 23 Dec 2019 15:36

Instrument :

MSVOA_X

ClientSampled :

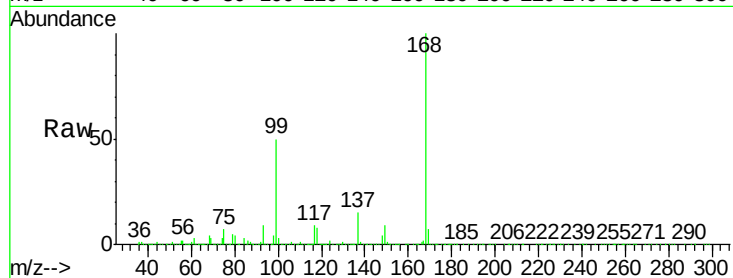
MH-F

Tgt Ion:168 Resp: 574033

Ion Ratio Lower Upper

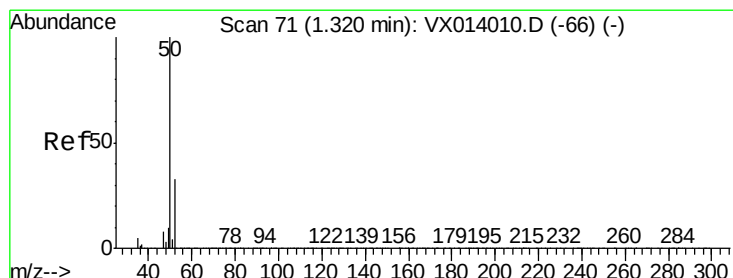
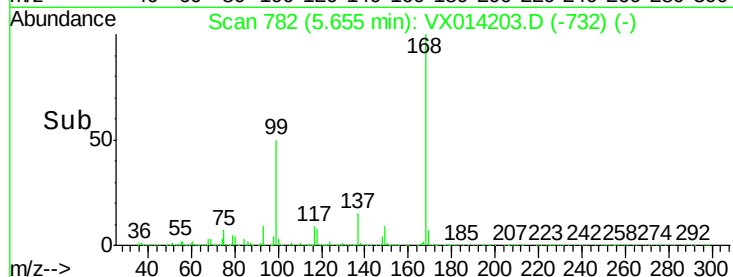
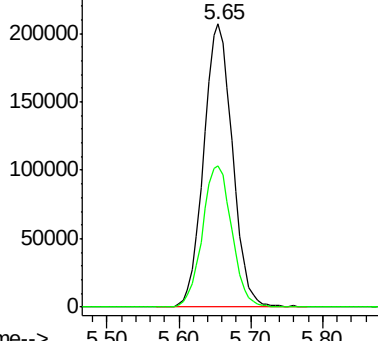
168 100

99 50.0 40.3 60.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.227 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX014203.D

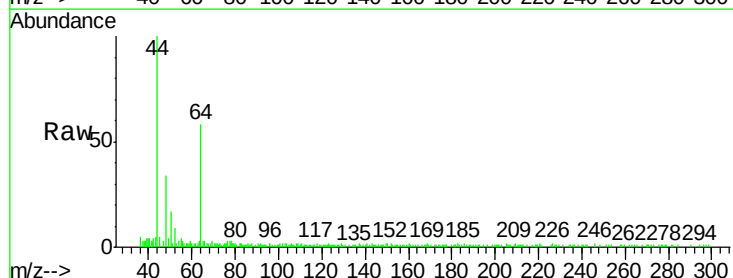
Acq: 23 Dec 2019 15:36

Tgt Ion: 50 Resp: 1563

Ion Ratio Lower Upper

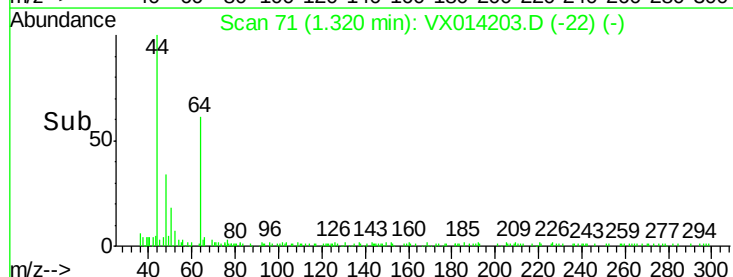
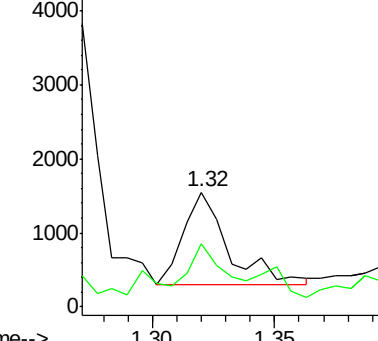
50 100

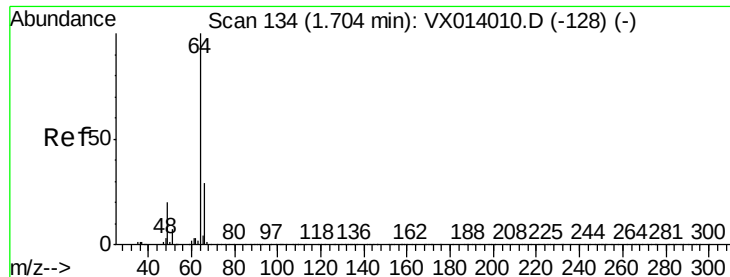
52 58.7 26.2 39.4#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#6

Chloroethane

Concen: 0.426 ug/l

RT: 1.75 min Scan# 141

Delta R.T. 0.04 min

Lab File: VX014203.D

Acq: 23 Dec 2019 15:36

Instrument :

MSVOA_X

ClientSampled :

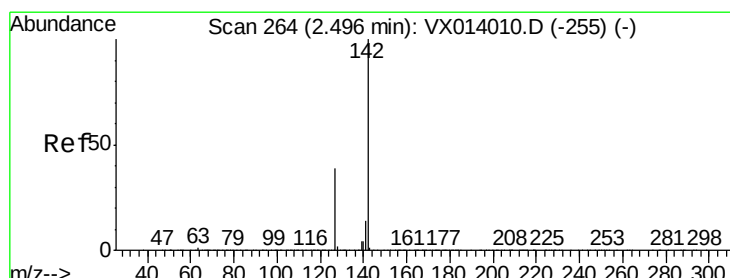
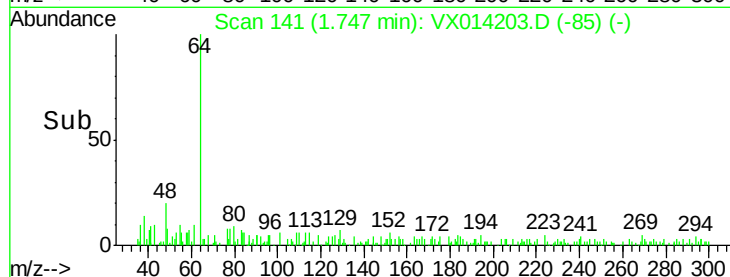
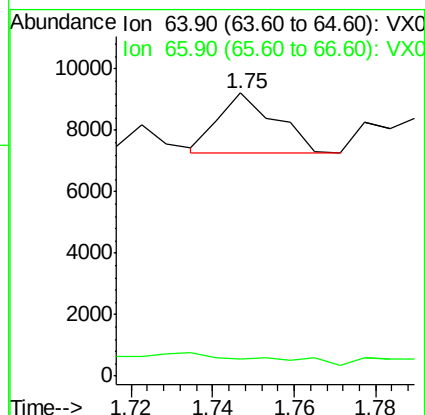
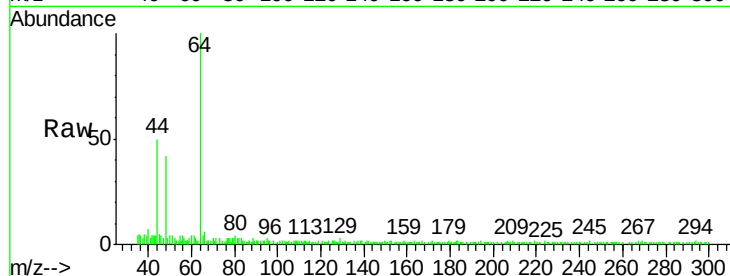
MH-F

Tgt Ion: 64 Resp: 1911

Ion Ratio Lower Upper

64 100

66 9.4 23.4 35.2#



#10

Methyl Iodide

Concen: 2.676 ug/l

RT: 2.51 min Scan# 266

Delta R.T. 0.01 min

Lab File: VX014203.D

Acq: 23 Dec 2019 15:36

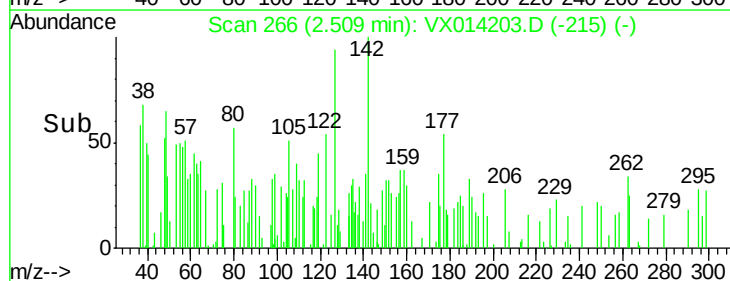
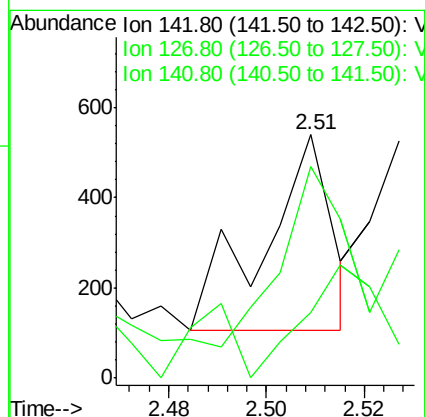
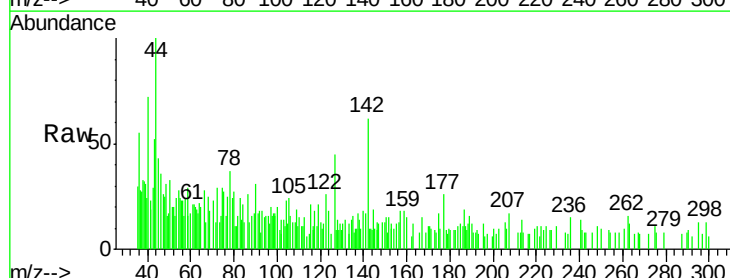
Tgt Ion: 142 Resp: 417

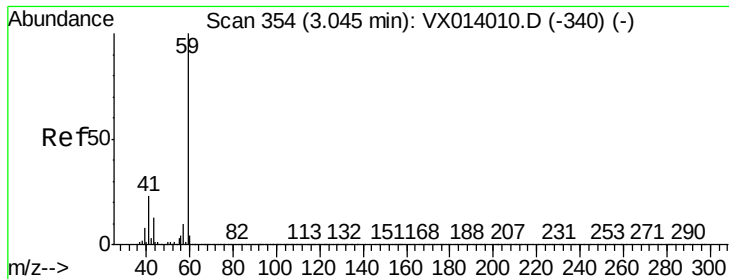
Ion Ratio Lower Upper

142 100

127 190.9 31.6 47.4#

141 66.2 11.6 17.4#



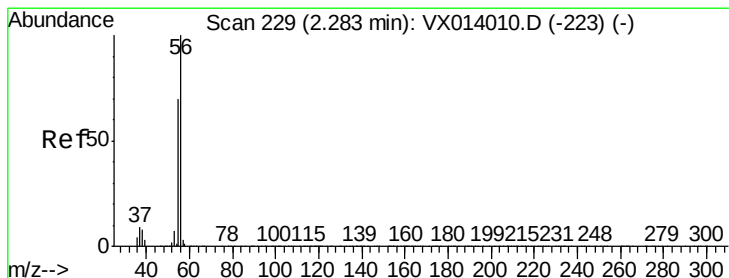
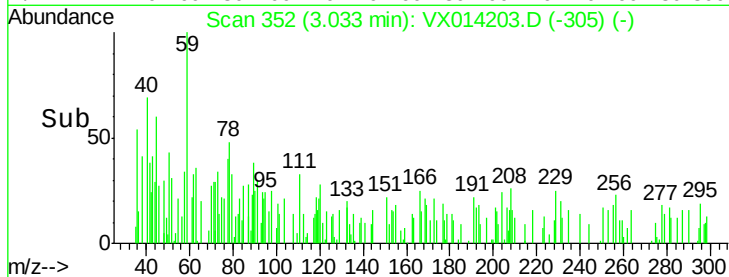
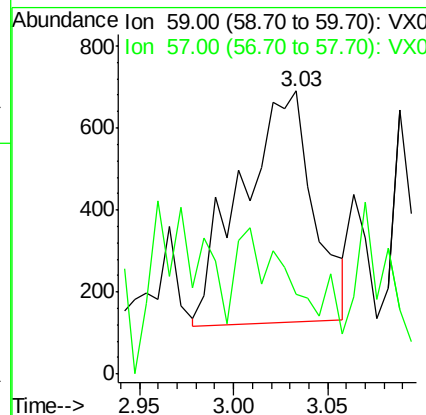
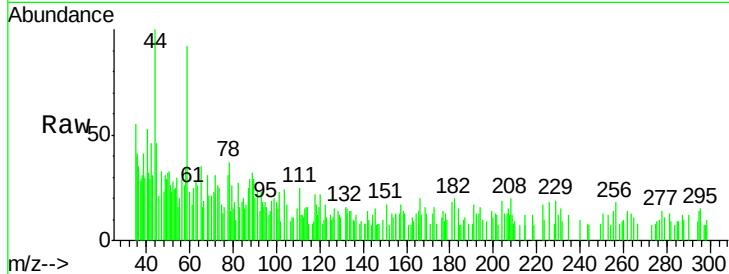


#11

Tert butyl alcohol
 Concen: 1.076 ug/l
 RT: 3.03 min Scan# 352
 Delta R.T. -0.01 min
 Lab File: VX014203.D
 Acq: 23 Dec 2019 15:36

Instrument :
 MSVOA_X
 ClientSampleId :
 MH-F

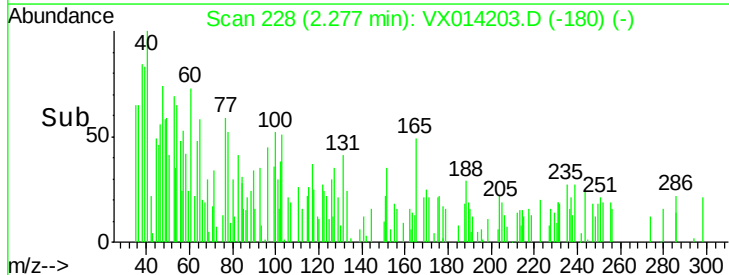
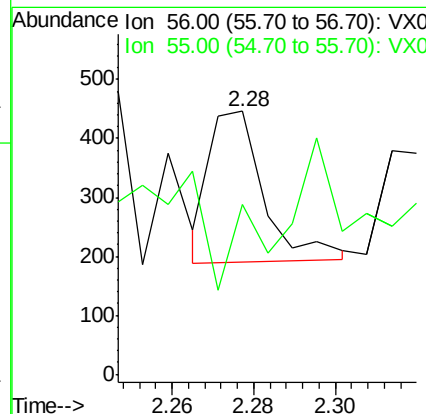
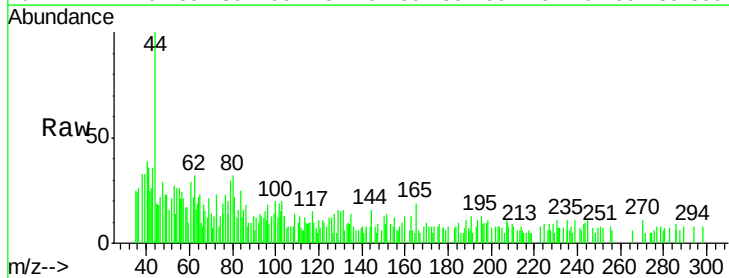
Tgt Ion: 59 Resp: 1512
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.4 12.6#

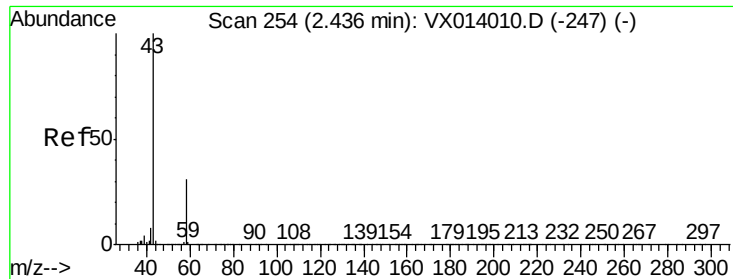


#13

Acrolein
 Concen: 0.297 ug/l
 RT: 2.28 min Scan# 228
 Delta R.T. -0.01 min
 Lab File: VX014203.D
 Acq: 23 Dec 2019 15:36

Tgt Ion: 56 Resp: 239
 Ion Ratio Lower Upper
 56 100
 55 0.0 56.9 85.3#

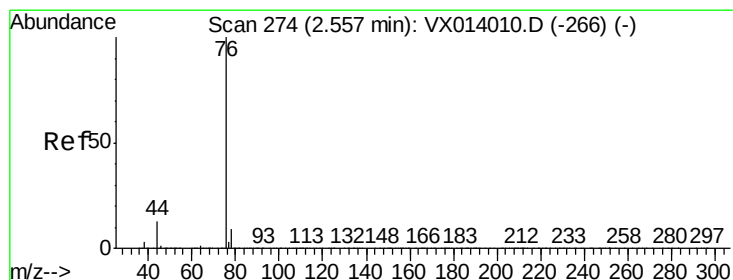
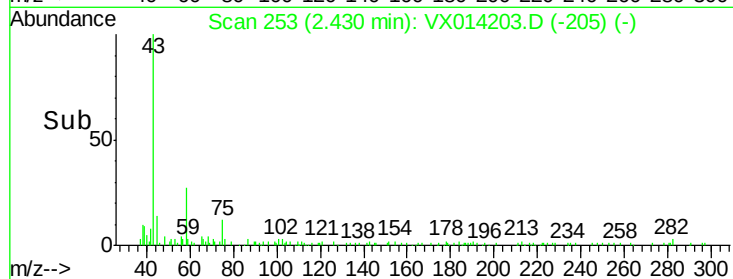
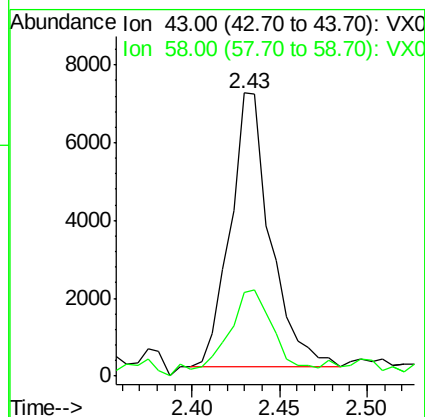
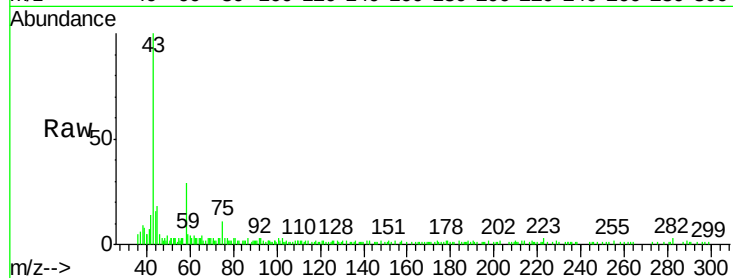




#16
Acetone
Concen: 2.678 ug/l
RT: 2.43 min Scan# 253
Delta R.T. -0.01 min
Lab File: VX014203.D
Acq: 23 Dec 2019 15:36

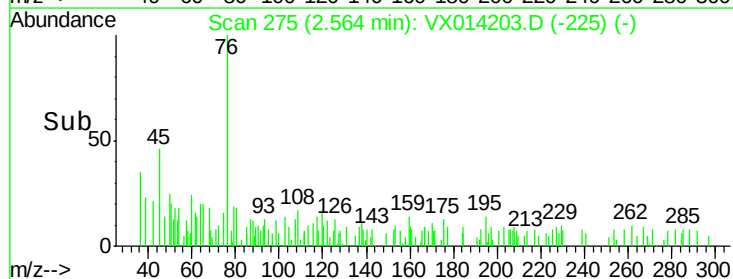
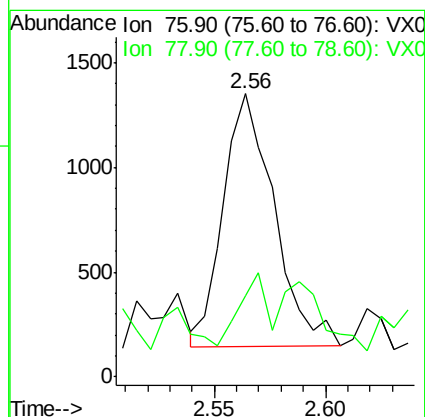
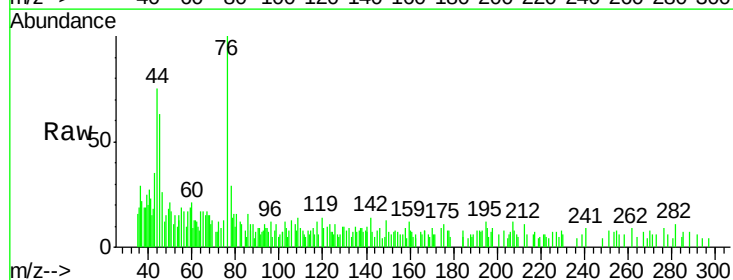
Instrument :
MSVOA_X
ClientSampleId :
MH-F

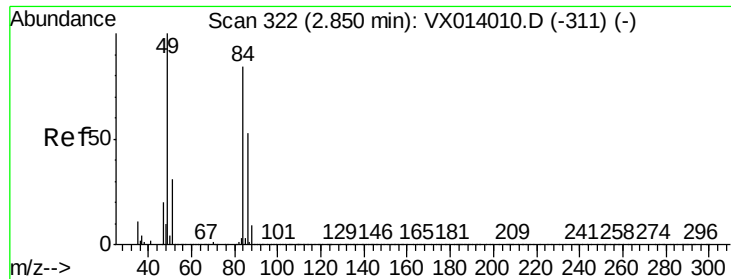
Tgt Ion: 43 Resp: 11309
Ion Ratio Lower Upper
43 100
58 28.2 24.9 37.3



#17
Carbon Disulfide
Concen: 0.873 ug/l
RT: 2.56 min Scan# 275
Delta R.T. 0.01 min
Lab File: VX014203.D
Acq: 23 Dec 2019 15:36

Tgt Ion: 76 Resp: 1918
Ion Ratio Lower Upper
76 100
78 30.4 7.2 10.8#

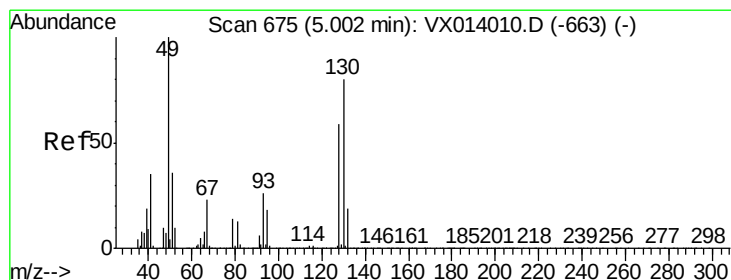
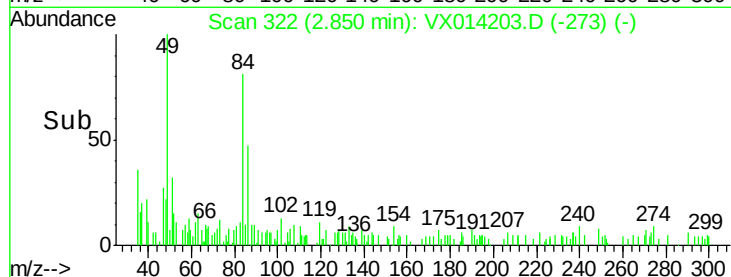
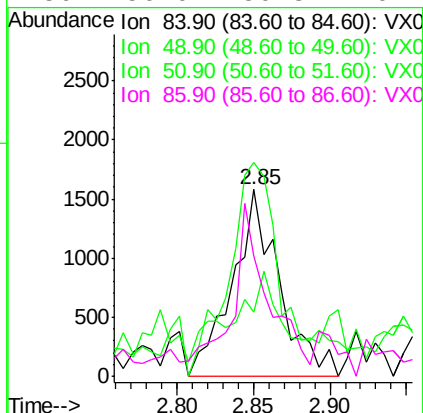
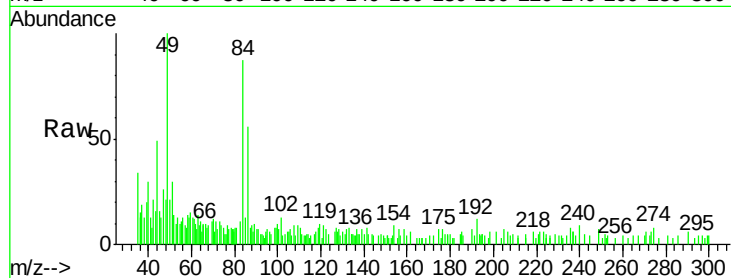




#20
Methylene Chloride
Concen: 0.504 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.00 min
Lab File: VX014203.D
Acq: 23 Dec 2019 15:36

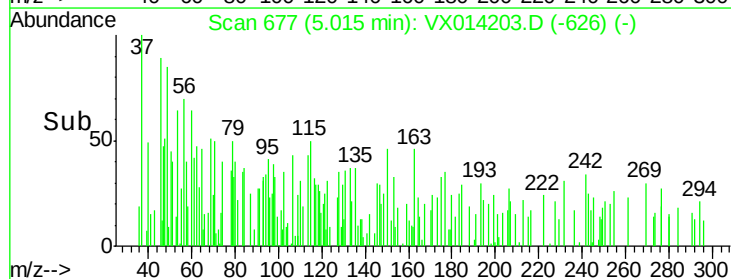
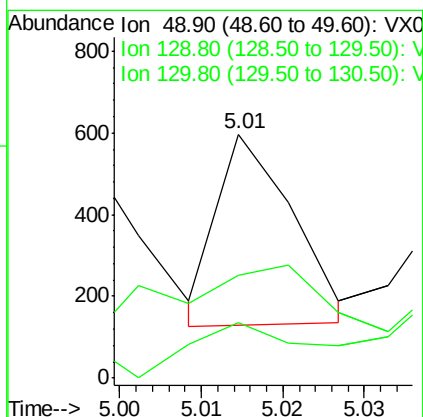
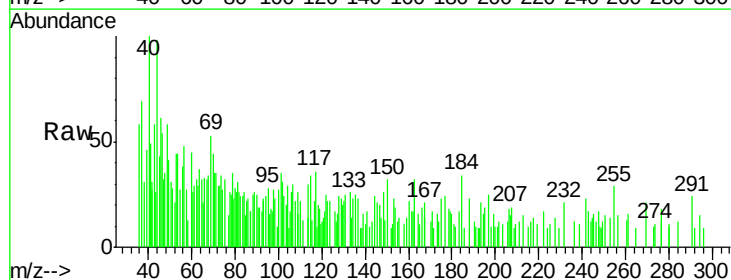
Instrument :
MSVOA_X
ClientSampled :
MH-F

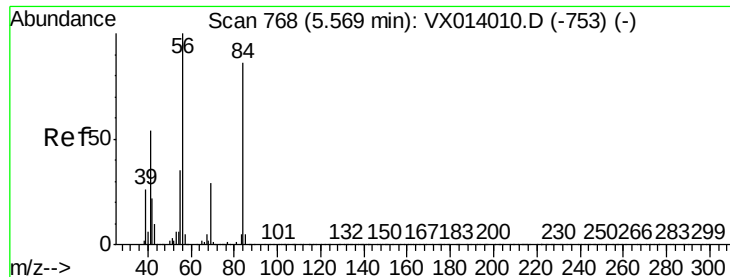
Tgt Ion:	84	Resp:	3350
Ion	Ratio	Lower	Upper
84	100		
49	114.4	95.8	143.6
51	16.6	29.8	44.8#
86	56.0	50.8	76.2



#28
Bromochloromethane
Concen: 0.525 ug/l
RT: 5.01 min Scan# 677
Delta R.T. 0.01 min
Lab File: VX014203.D
Acq: 23 Dec 2019 15:36

Tgt Ion:	49	Resp:	301
Ion	Ratio	Lower	Upper
49	100		
129	46.5	0.0	5.0#
130	196.0	64.6	97.0#

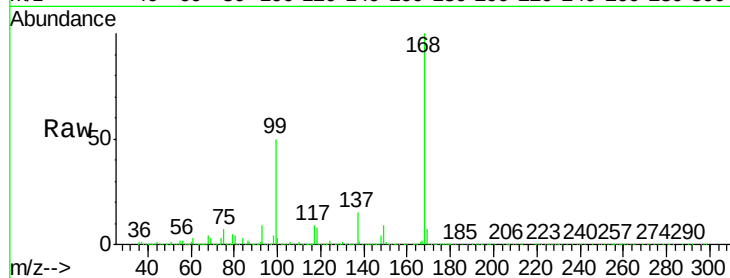




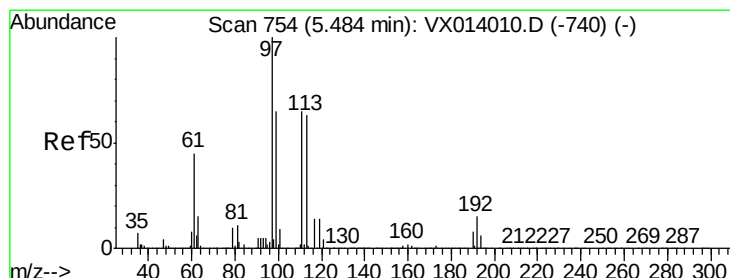
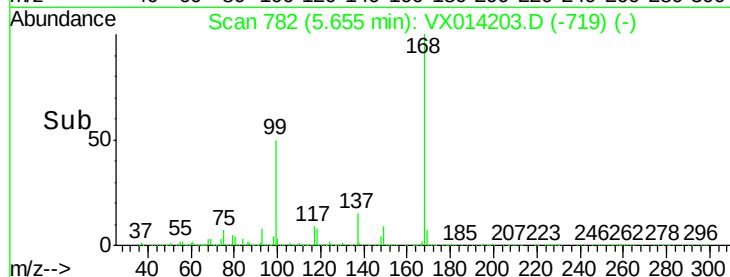
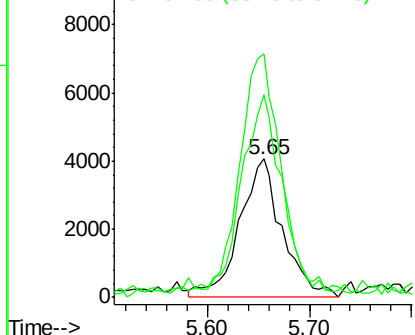
#31
Cyclohexane
Concen: 1.215 ug/l
RT: 5.65 min Scan# 782
Delta R.T. 0.09 min
Lab File: VX014203.D
Acq: 23 Dec 2019 15:36

Instrument :
MSVOA_X
ClientSampleId :
MH-F

Tgt Ion: 56 Resp: 11808
Ion Ratio Lower Upper
56 100
69 171.0 23.2 34.8#
84 141.9 69.2 103.8#

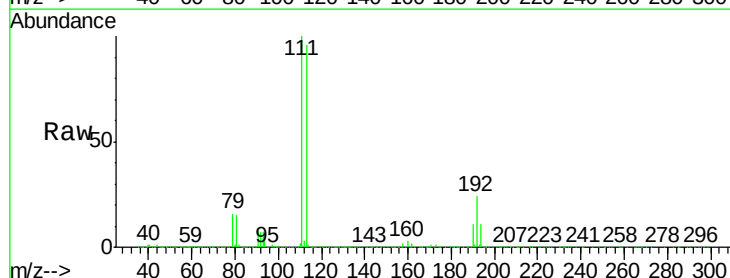


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

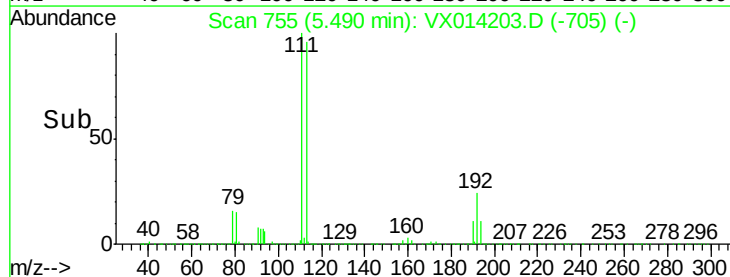
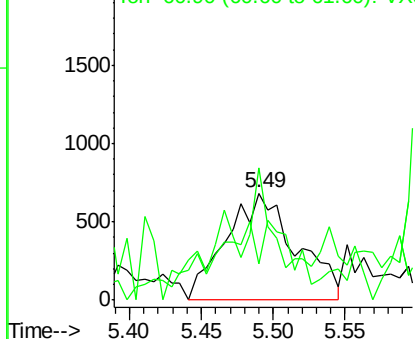


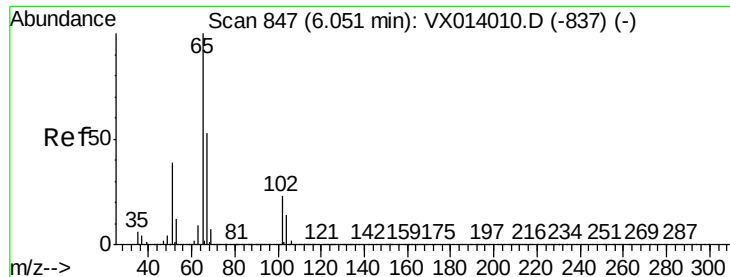
#32
1,1,1-Trichloroethane
Concen: 0.261 ug/l
RT: 5.49 min Scan# 755
Delta R.T. 0.01 min
Lab File: VX014203.D
Acq: 23 Dec 2019 15:36

Tgt Ion: 97 Resp: 2306
Ion Ratio Lower Upper
97 100
99 0.0 52.0 78.0#
61 24.7 36.7 55.1#



Abundance Ion 96.90 (96.60 to 97.60): VX0
Ion 98.90 (98.60 to 99.60): VX0
Ion 60.90 (60.60 to 61.60): VX0

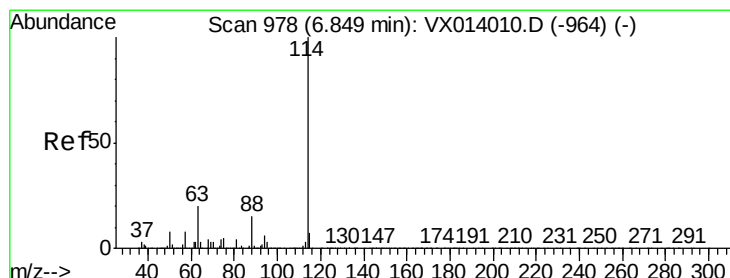
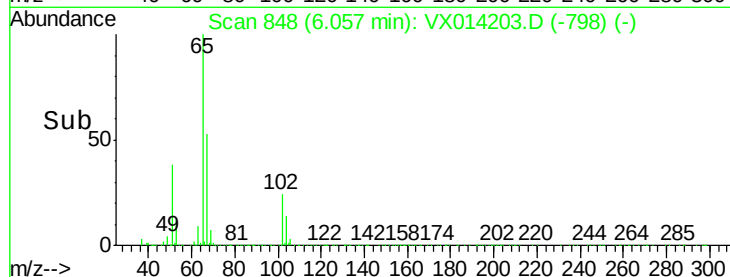
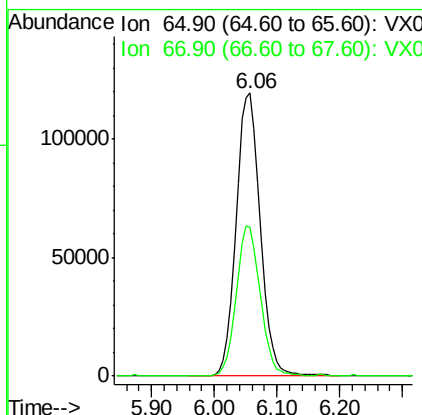
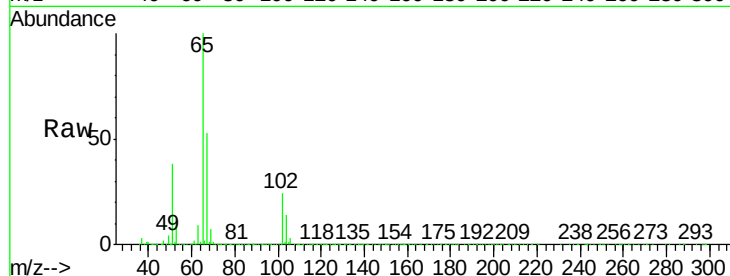




#33
 1,2-Dichloroethane-d4
 Concen: 48.877 ug/l
 RT: 6.06 min Scan# 848
 Delta R.T. 0.01 min
 Lab File: VX014203.D
 Acq: 23 Dec 2019 15:36

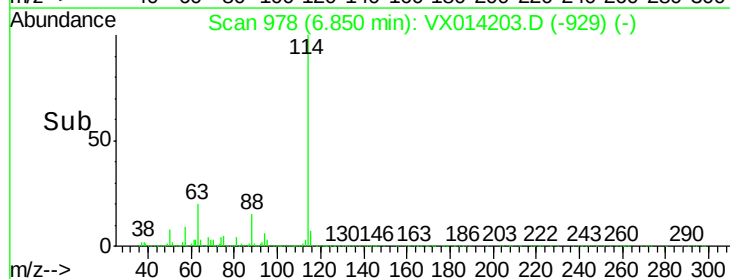
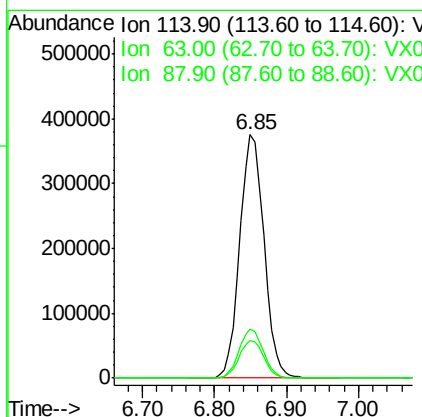
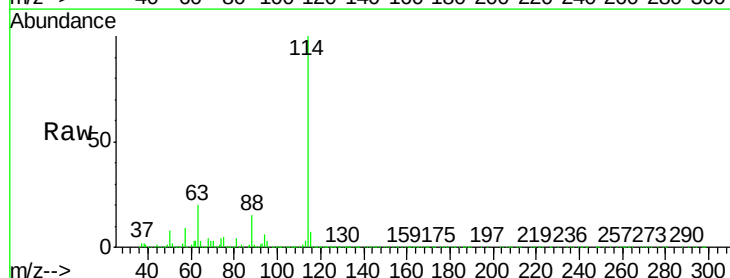
Instrument :
 MSVOA_X
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 MH-F

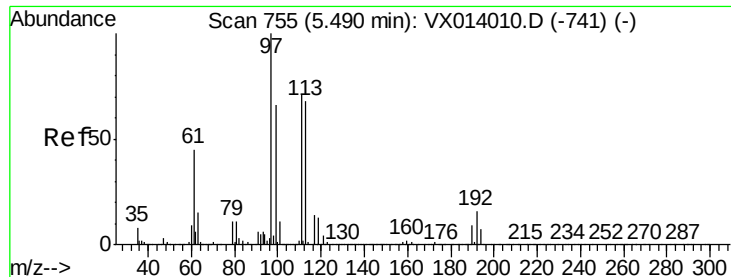
Tgt Ion: 65 Resp: 317985
 Ion Ratio Lower Upper
 65 100
 67 52.3 0.0 106.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX014203.D
 Acq: 23 Dec 2019 15:36

Tgt Ion: 114 Resp: 881988
 Ion Ratio Lower Upper
 114 100
 63 20.2 0.0 40.8
 88 15.3 0.0 30.4





#35

Dibromofluoromethane

Concen: 49.438 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014203.D

Acq: 23 Dec 2019 15:36

Instrument :

MSVOA_X

ClientSampleId :

MH-F

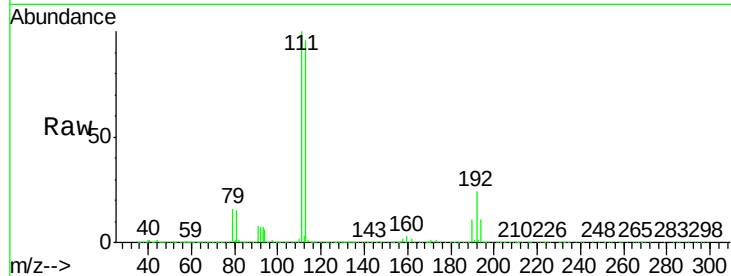
Tgt Ion:113 Resp: 265065

Ion Ratio Lower Upper

113 100

111 101.3 82.0 123.0

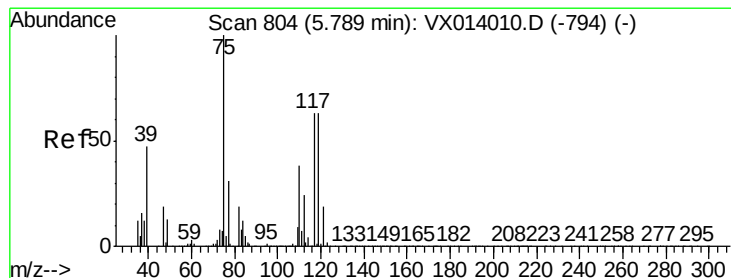
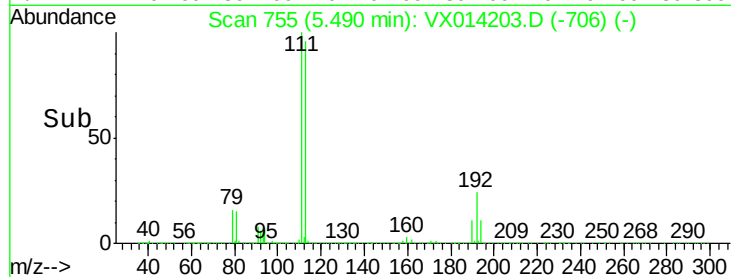
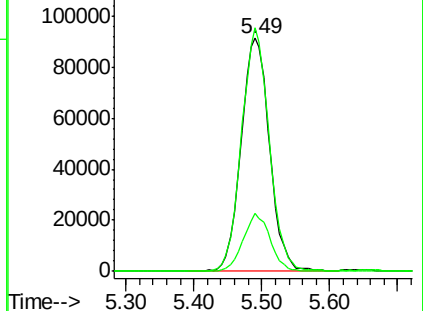
192 23.8 19.3 28.9



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.848 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX014203.D

Acq: 23 Dec 2019 15:36

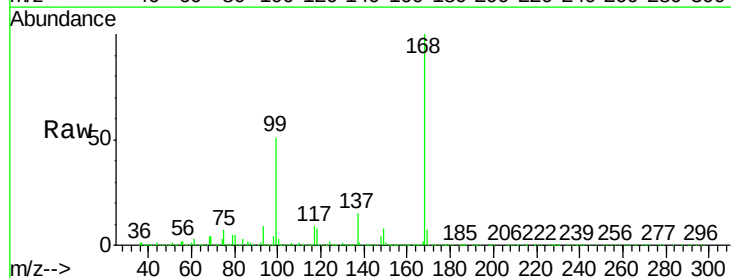
Tgt Ion: 75 Resp: 39232

Ion Ratio Lower Upper

75 100

110 11.6 18.3 54.9#

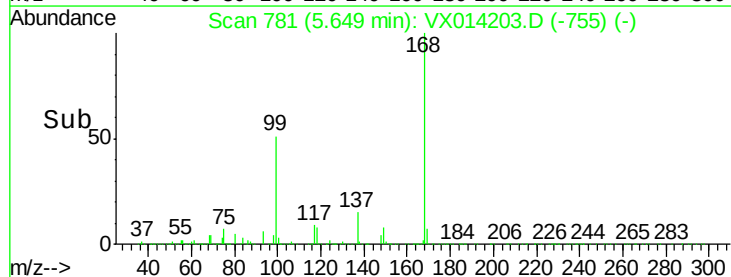
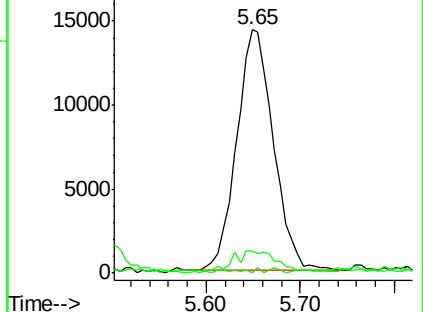
77 0.3 24.8 37.2#

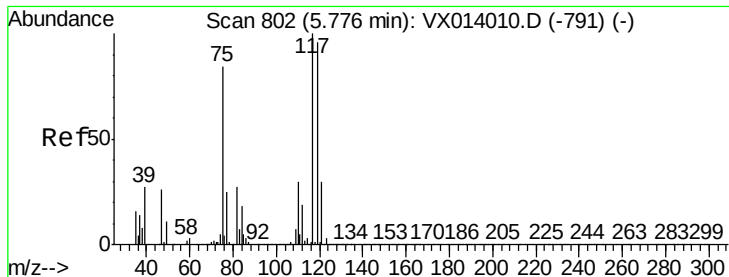


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.915 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX014203.D

Acq: 23 Dec 2019 15:36

Instrument :

MSVOA_X

ClientSampleId :

MH-F

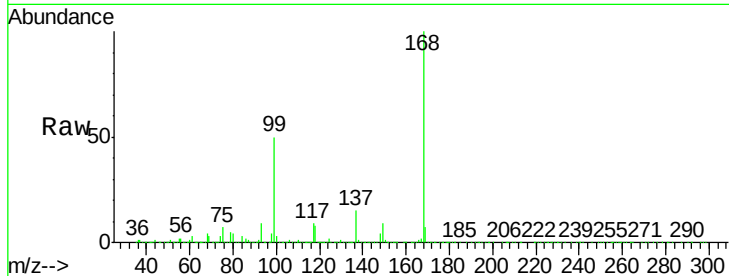
Tgt Ion: 117 Resp: 50981

Ion Ratio Lower Upper

117 100

119 3.9 76.2 114.4#

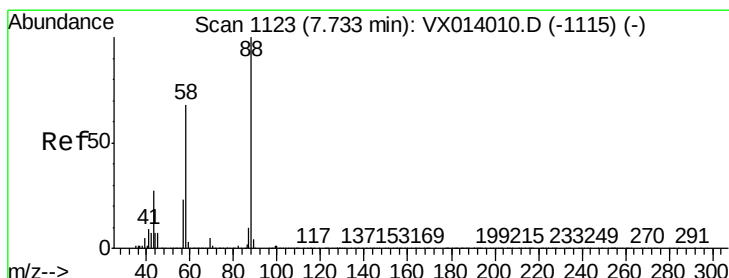
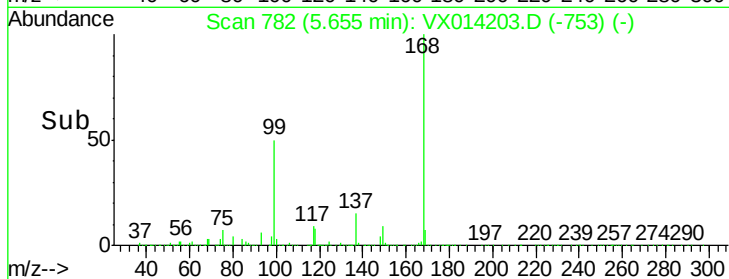
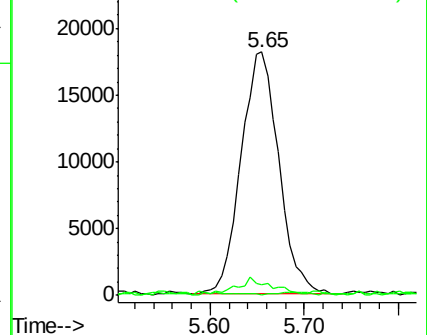
121 1.4 23.6 35.4#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#49

1,4-Dioxane

Concen: 1.242 ug/l

RT: 7.73 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VX014203.D

Acq: 23 Dec 2019 15:36

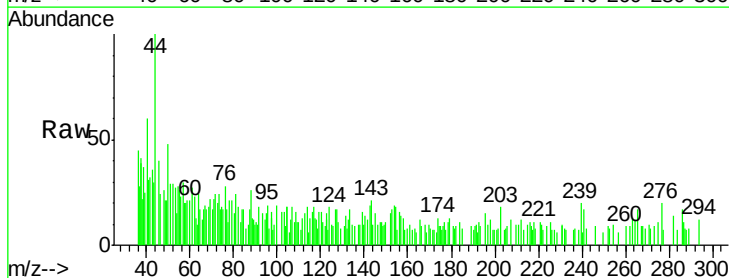
Tgt Ion: 88 Resp: 183

Ion Ratio Lower Upper

88 100

43 138.3 26.5 39.7#

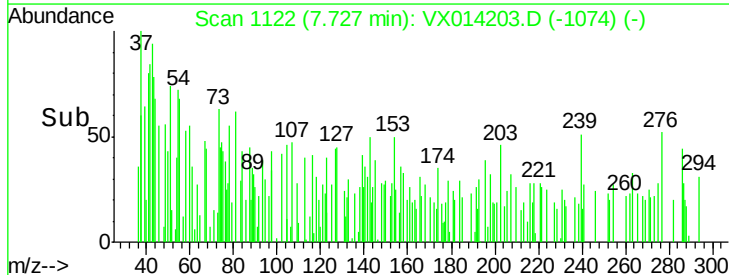
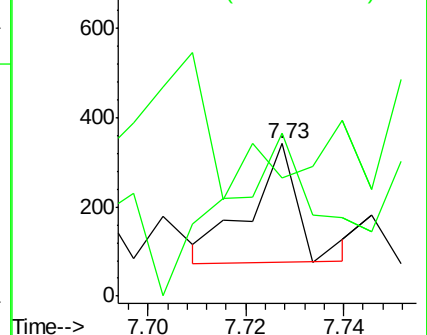
58 294.0 56.8 85.2#

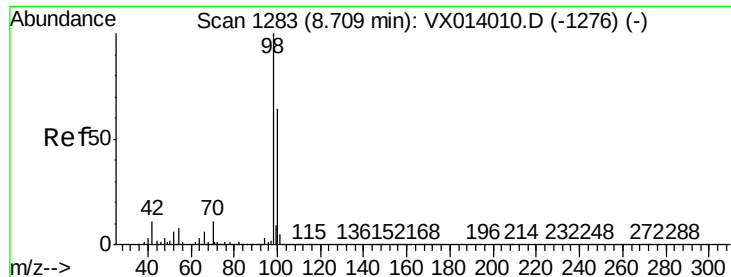


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

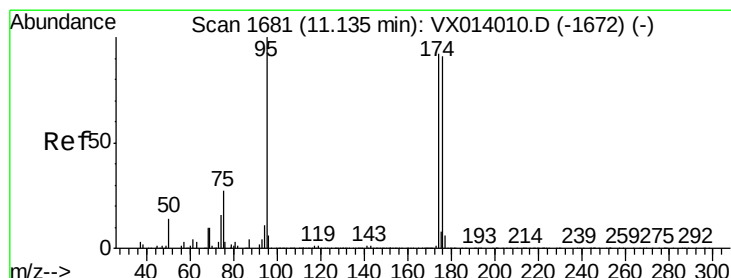
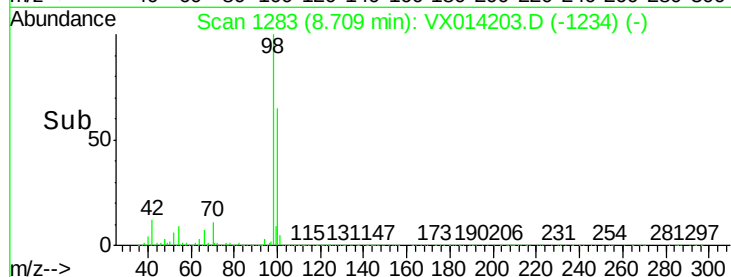
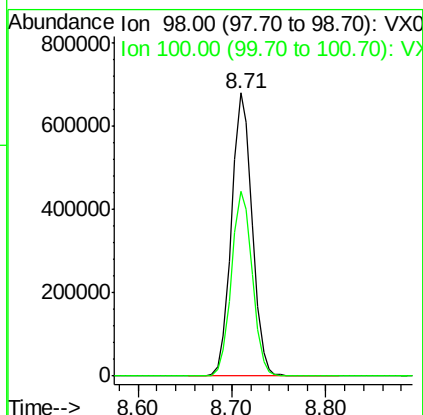
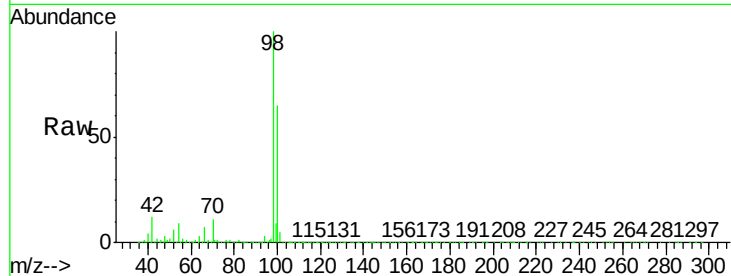




#50
Toluene-d8
Concen: 49.566 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX014203.D
Acq: 23 Dec 2019 15:36

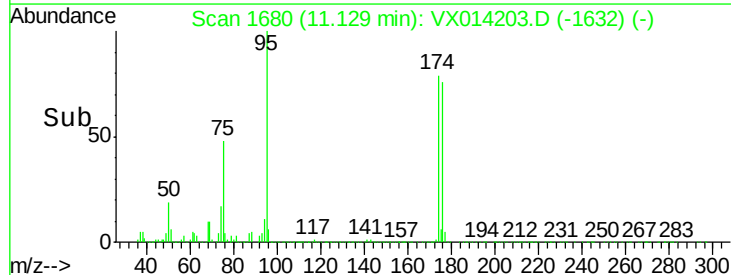
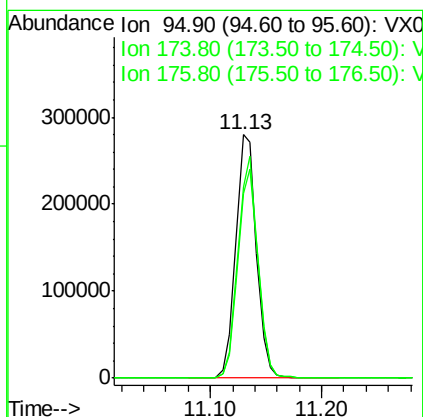
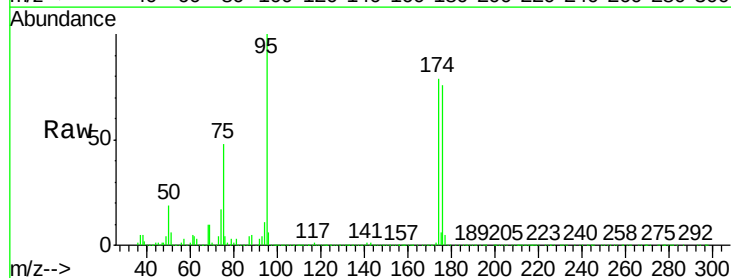
Instrument :
MSVOA_X
ClientSampleId :
MH-F

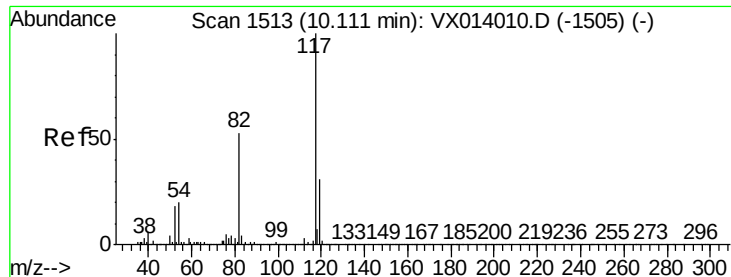
Tgt Ion: 98 Resp: 1034621
Ion Ratio Lower Upper
98 100
100 65.6 52.9 79.3



#62
4-Bromofluorobenzene
Concen: 46.949 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.01 min
Lab File: VX014203.D
Acq: 23 Dec 2019 15:36

Tgt Ion: 95 Resp: 358234
Ion Ratio Lower Upper
95 100
174 88.9 0.0 175.8
176 85.1 0.0 173.0

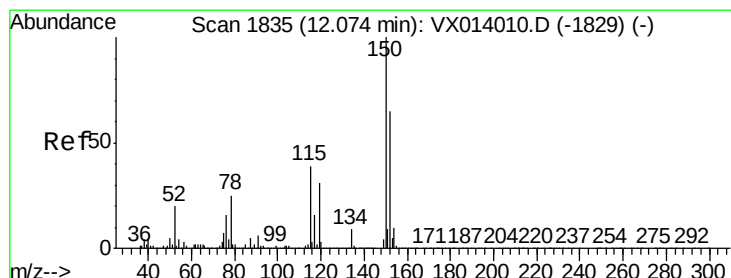
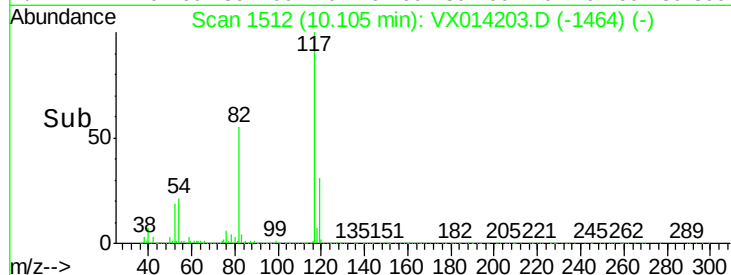
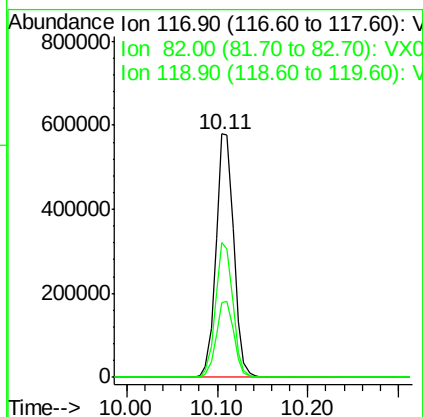
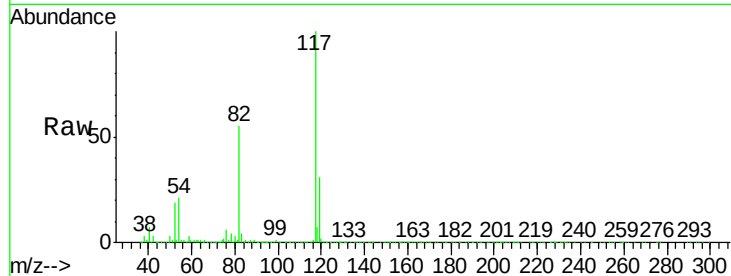




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1512
Delta R.T. -0.01 min
Lab File: VX014203.D
Acq: 23 Dec 2019 15:36

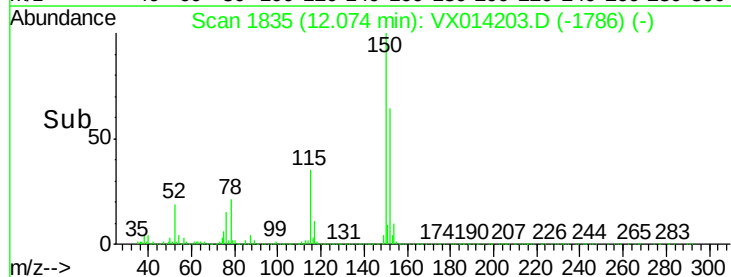
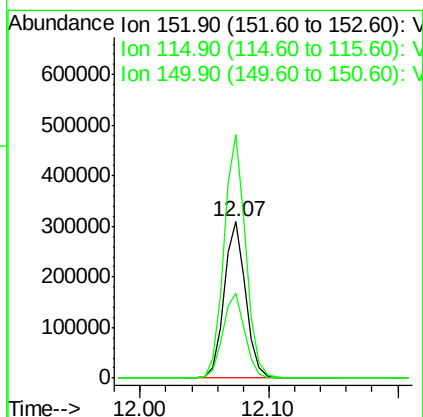
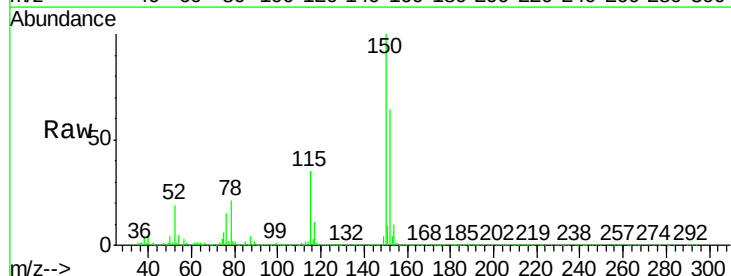
Instrument :
MSVOA_X
ClientSampleId :
MH-F

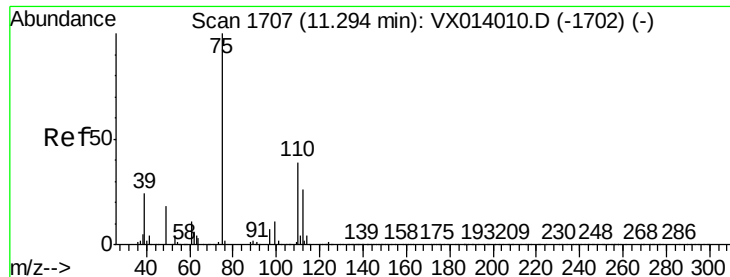
Tgt Ion	Ratio	Lower	Upper
117	100		
82	55.1	42.2	63.4
119	30.6	25.1	37.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX014203.D
Acq: 23 Dec 2019 15:36

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.2	38.3	114.9
150	156.3	0.0	345.4





#76

1,2,3-Trichloropropane

Concen: 21.732 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014203.D

Acq: 23 Dec 2019 15:36

Instrument :

MSVOA_X

ClientSampleId :

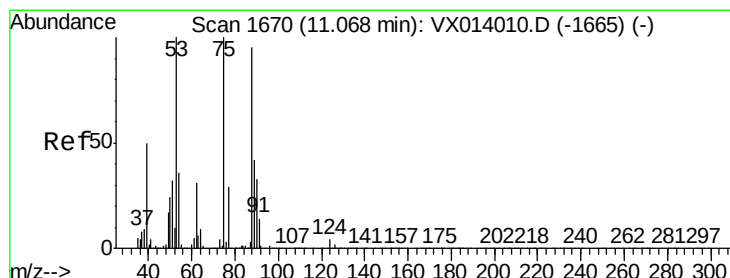
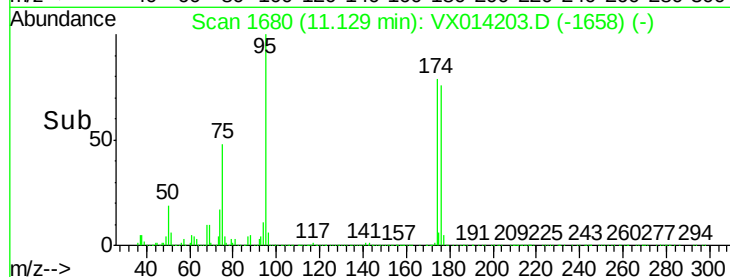
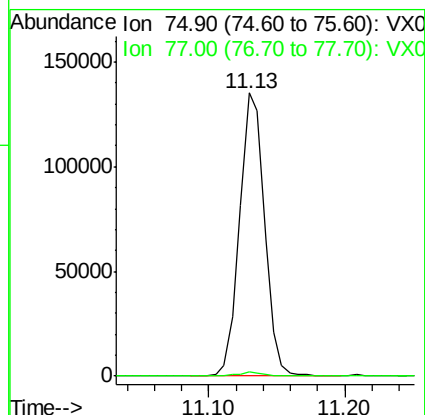
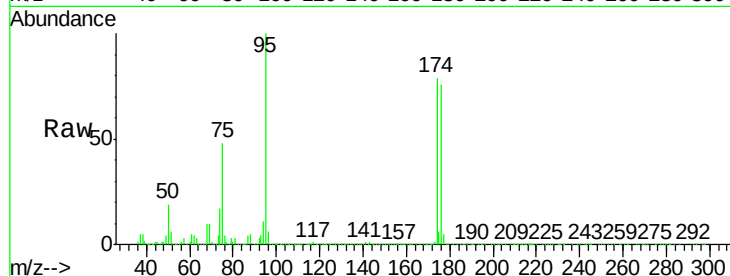
MH-F

Tgt Ion: 75 Resp: 171612

Ion Ratio Lower Upper

75 100

77 1.4 19.3 57.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 61.340 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014203.D

Acq: 23 Dec 2019 15:36

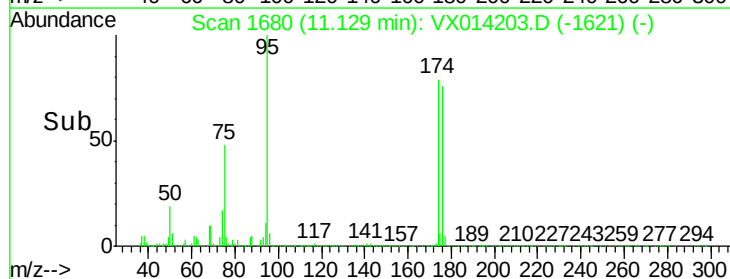
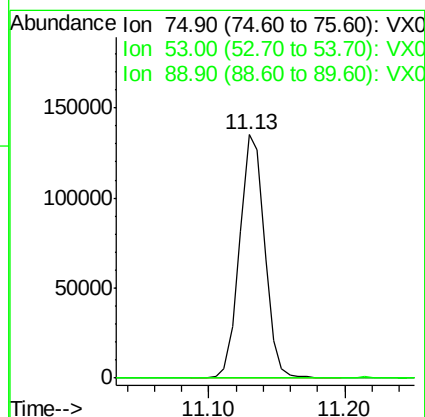
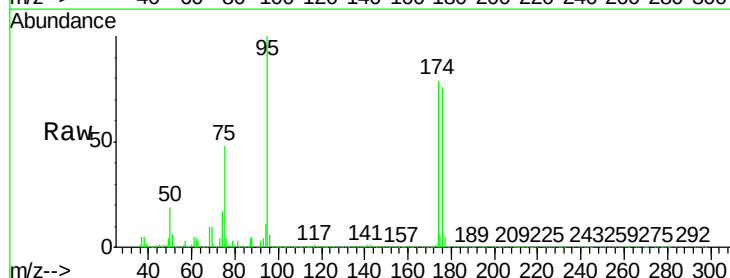
Tgt Ion: 75 Resp: 171612

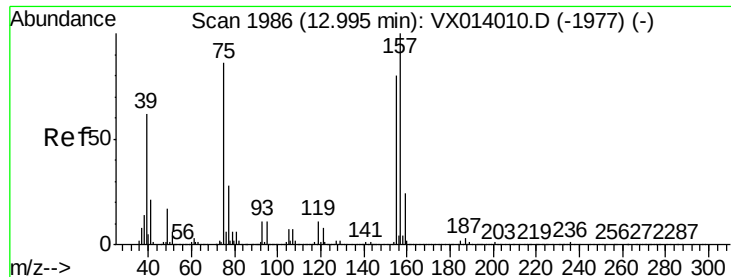
Ion Ratio Lower Upper

75 100

53 0.4 76.7 115.1#

89 0.2 34.6 51.8#





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.209 ug/l

RT: 12.98 min Scan# 1983

Delta R.T. -0.02 min

Lab File: VX014203.D

Acq: 23 Dec 2019 15:36

Instrument :

MSVOA_X

ClientSampleId :

MH-F

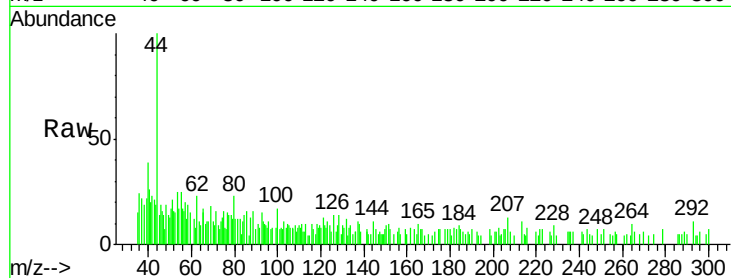
Tgt Ion: 75 Resp: 410

Ion Ratio Lower Upper

75 100

155 48.5 46.9 140.6

157 68.5 60.8 182.4



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

