

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX122019\
 Data File : VX014176.D
 Acq On : 20 Dec 2019 16:03
 Operator : JC/SP
 Sample : K6379-03
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MH-20A

Quant Time: Dec 20 22:28:44 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	563554	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	855143	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	758723	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	343778	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	306257	47.95	ug/l	0.00
Spiked Amount			Recovery	=	95.90%	
35) Dibromofluoromethane	5.49	113	253704	48.80	ug/l	0.00
Spiked Amount			Recovery	=	97.60%	
50) Toluene-d8	8.71	98	998828	49.35	ug/l	0.00
Spiked Amount			Recovery	=	98.70%	
62) 4-Bromofluorobenzene	11.13	95	343638	46.45	ug/l	0.00
Spiked Amount			Recovery	=	92.90%	

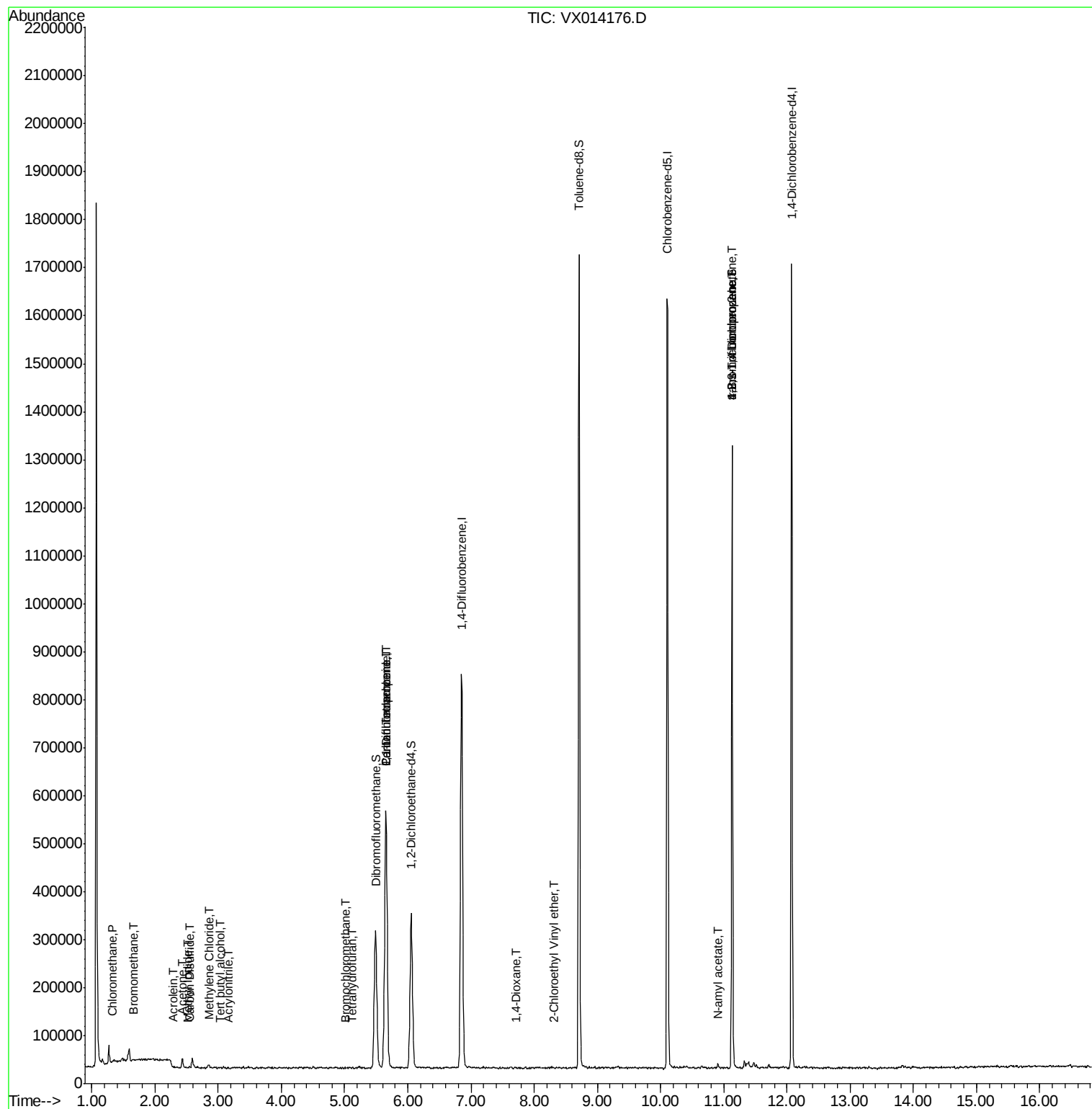
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1765	0.261	ug/l	93
5) Bromomethane	1.66	94	1126	0.222	ug/l	86
10) Methyl Iodide	2.51	142	301	2.661	ug/l #	1
11) Tert butyl alcohol	3.03	59	491	0.356	ug/l #	1
13) Acrolein	2.28	56	460	0.582	ug/l #	1
15) Acrylonitrile	3.16	53	863	0.268	ug/l #	38
16) Acetone	2.43	43	20585	4.964	ug/l	93
17) Carbon Disulfide	2.55	76	791	0.802	ug/l #	1
20) Methylene Chloride	2.85	84	3999	0.612	ug/l #	95
28) Bromochloromethane	5.01	49	714	0.625	ug/l #	51
29) Tetrahydrofuran	5.13	42	647	0.226	ug/l #	75
36) 1,1-Dichloropropene	5.65	75	37707	4.806	ug/l #	51
38) Carbon Tetrachloride	5.65	117	48360	6.766	ug/l #	17
49) 1,4-Dioxane	7.73	88	121	0.847	ug/l #	23
58) 2-Chloroethyl Vinyl ether	8.32	63	1022	0.281	ug/l #	46
74) N-amyl acetate	10.91	43	3664	0.323	ug/l #	73
76) 1,2,3-Trichloropropane	11.13	75	166341	22.288	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	166341	62.907	ug/l #	12

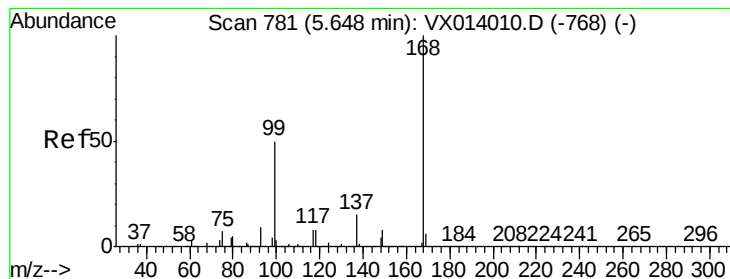
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_X\DATA\VX122019\
Data File : VX014176.D
Acq On : 20 Dec 2019 16:03
Operator : JC/SP
Sample : K6379-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MH-20A

Quant Time: Dec 20 22:28:44 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X121319W.M
Quant Title : SW846 8260
QLast Update : Tue Dec 17 03:01:07 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX014176.D

Acq: 20 Dec 2019 16:03

Instrument :

MSVOA_X

ClientSampled :

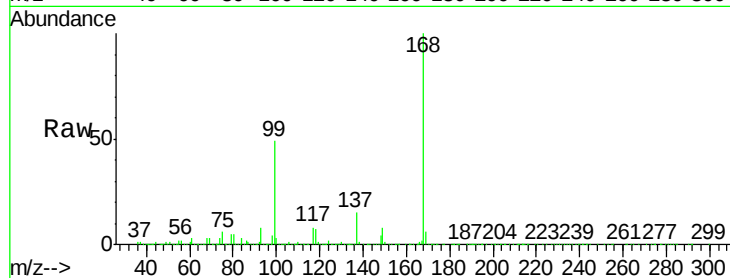
MH-20A

Tgt Ion:168 Resp: 563554

Ion Ratio Lower Upper

168 100

99 48.6 40.3 60.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

200000

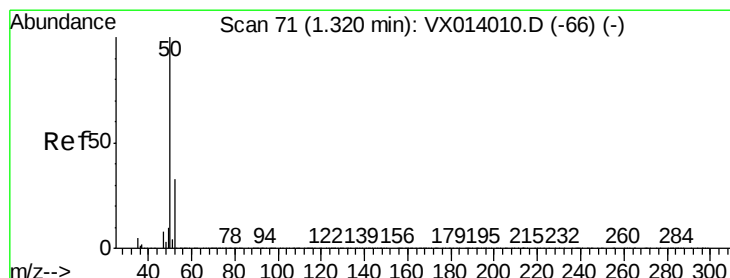
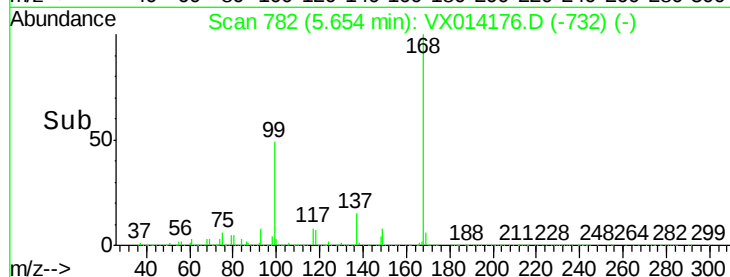
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.261 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX014176.D

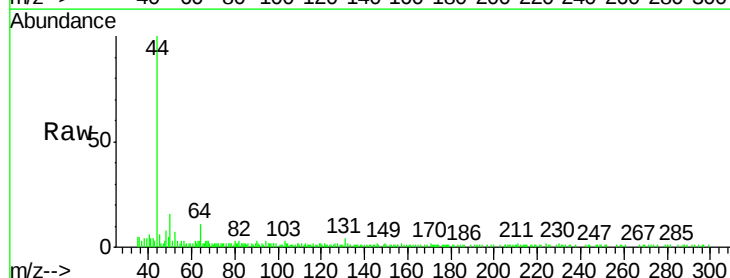
Acq: 20 Dec 2019 16:03

Tgt Ion: 50 Resp: 1765

Ion Ratio Lower Upper

50 100

52 28.9 26.2 39.4



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

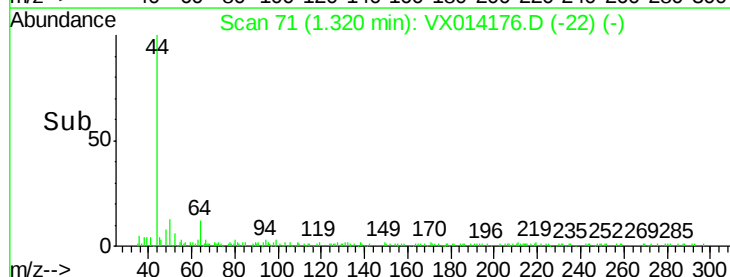
1500

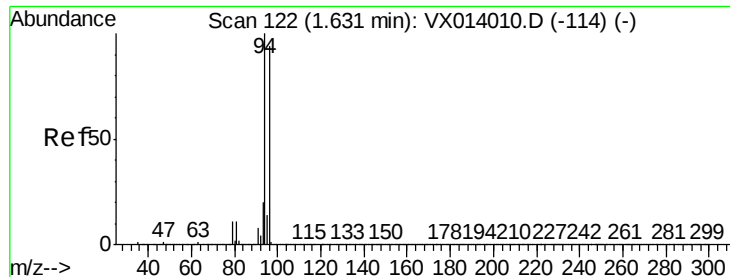
1000

500

0

Time-->





#5

Bromomethane

Concen: 0.222 ug/l

RT: 1.66 min Scan# 127

Delta R.T. 0.03 min

Lab File: VX014176.D

Acq: 20 Dec 2019 16:03

Instrument :

MSVOA_X

ClientSampled :

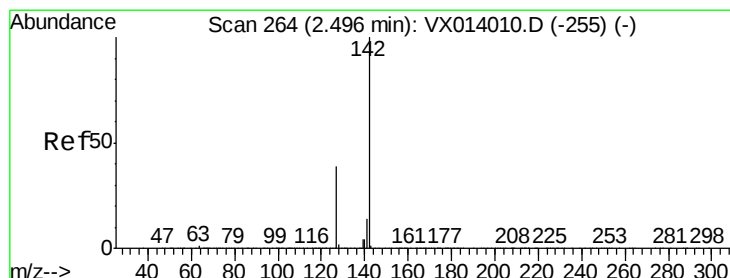
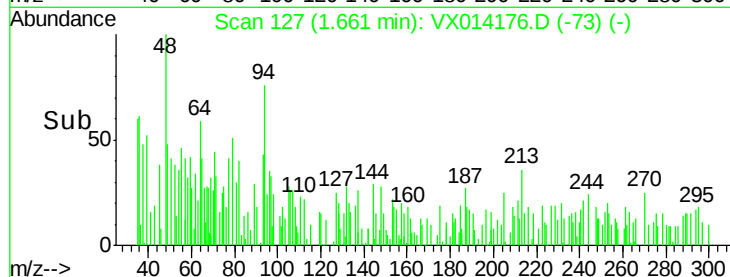
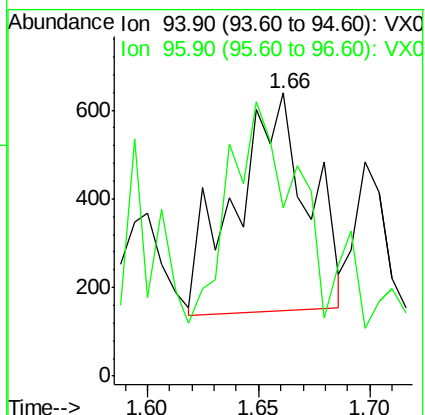
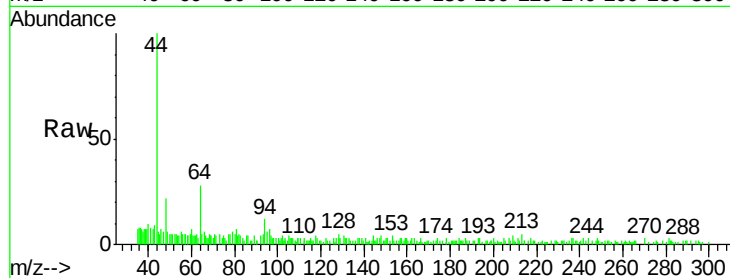
MH-20A

Tgt Ion: 94 Resp: 1126

Ion Ratio Lower Upper

94 100

96 80.9 75.2 112.8



#10

Methyl Iodide

Concen: 2.661 ug/l

RT: 2.51 min Scan# 266

Delta R.T. 0.01 min

Lab File: VX014176.D

Acq: 20 Dec 2019 16:03

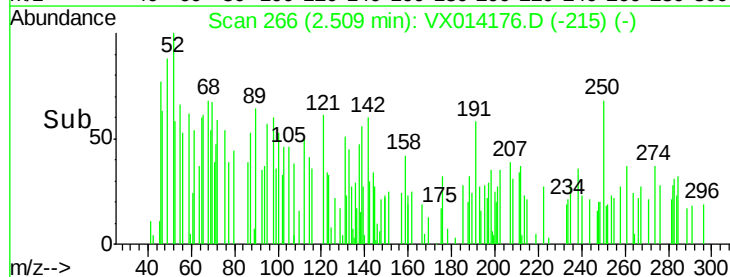
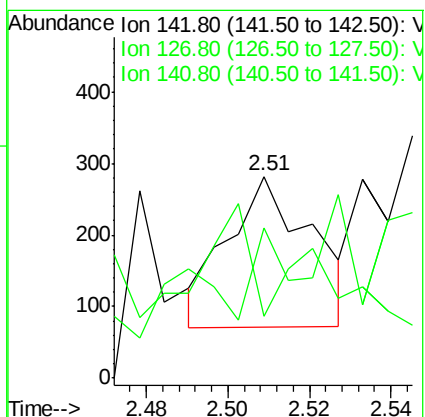
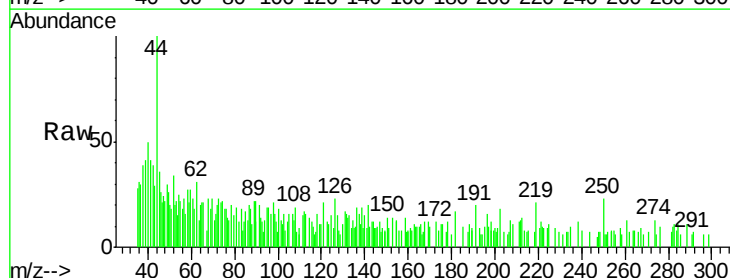
Tgt Ion: 142 Resp: 301

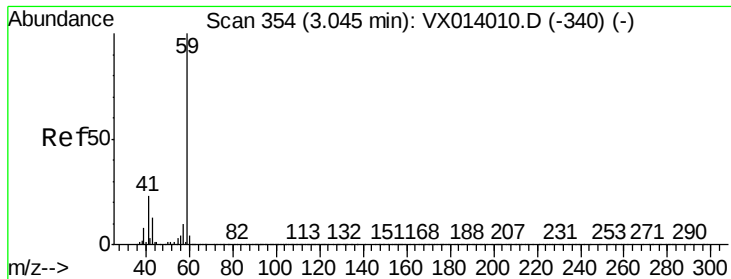
Ion Ratio Lower Upper

142 100

127 0.0 31.6 47.4#

141 122.3 11.6 17.4#

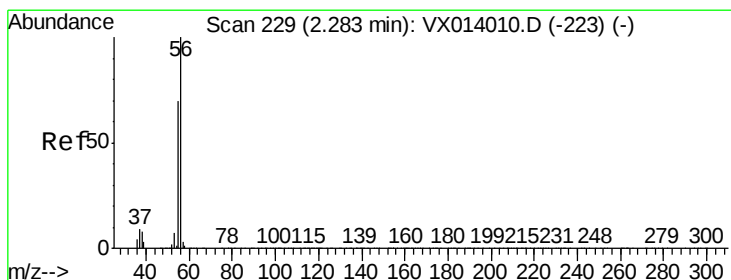
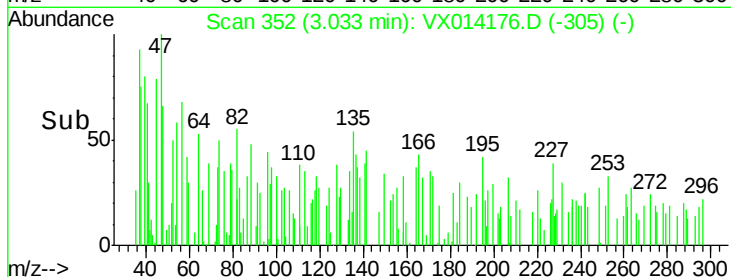
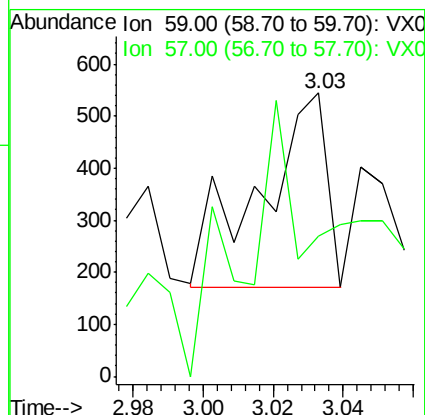
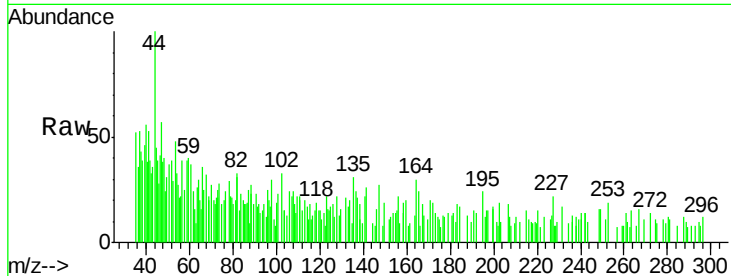




#11
Tert butyl alcohol
Concen: 0.356 ug/l
RT: 3.03 min Scan# 352
Delta R.T. -0.01 min
Lab File: VX014176.D
Acq: 20 Dec 2019 16:03

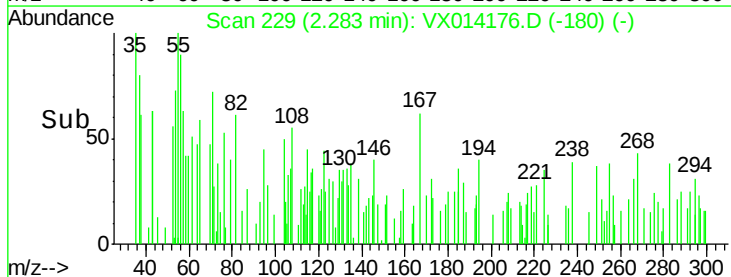
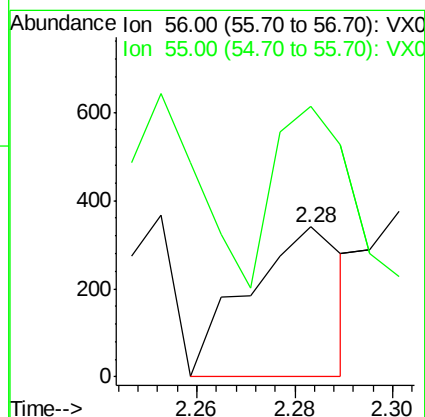
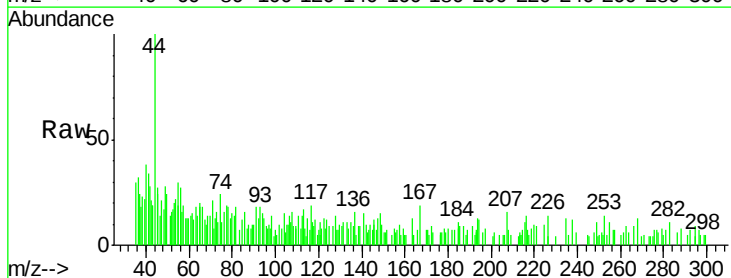
Instrument :
MSVOA_X
ClientSampled :
MH-20A

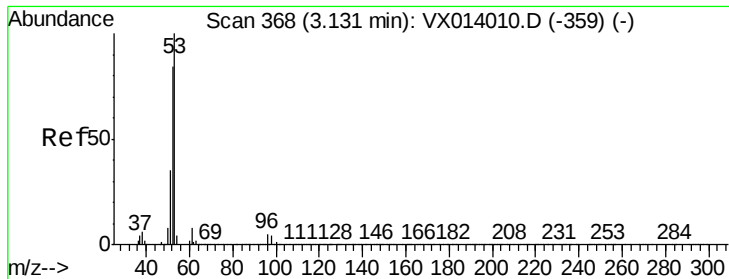
Tgt Ion: 59 Resp: 491
Ion Ratio Lower Upper
59 100
57 127.1 8.4 12.6#



#13
Acrolein
Concen: 0.582 ug/l
RT: 2.28 min Scan# 229
Delta R.T. 0.00 min
Lab File: VX014176.D
Acq: 20 Dec 2019 16:03

Tgt Ion: 56 Resp: 460
Ion Ratio Lower Upper
56 100
55 197.0 56.9 85.3#





#15

Acrylonitrile

Concen: 0.268 ug/l

RT: 3.16 min Scan# 373

Delta R.T. 0.03 min

Lab File: VX014176.D

Acq: 20 Dec 2019 16:03

Instrument :

MSVOA_X

ClientSampleId :

MH-20A

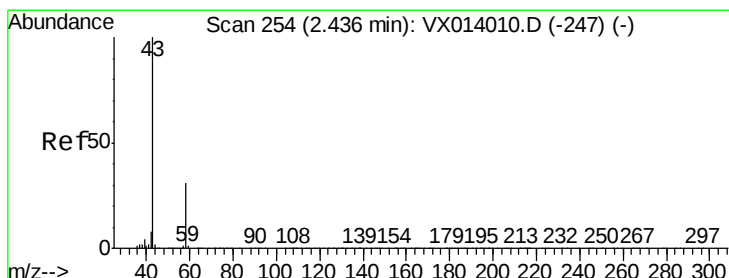
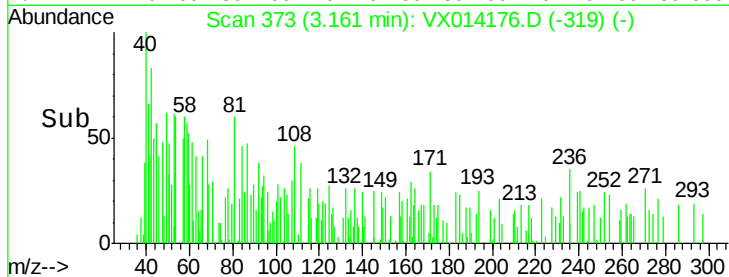
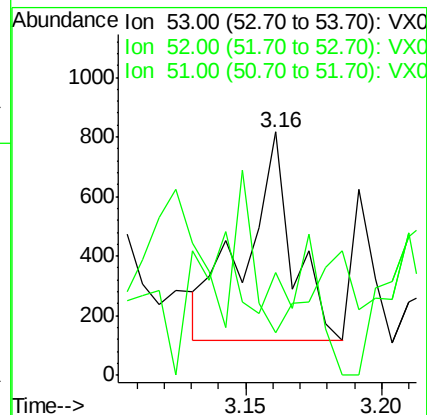
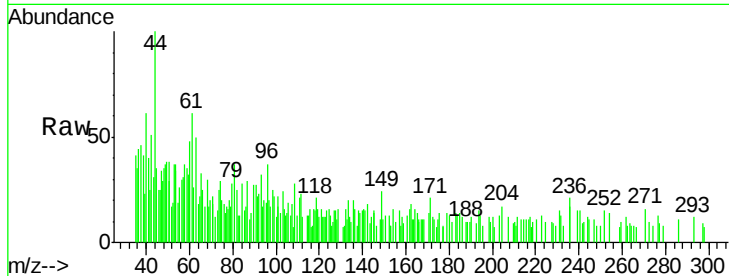
Tgt Ion: 53 Resp: 863

Ion Ratio Lower Upper

53 100

52 27.2 66.5 99.7#

51 70.9 28.1 42.1#



#16

Acetone

Concen: 4.964 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX014176.D

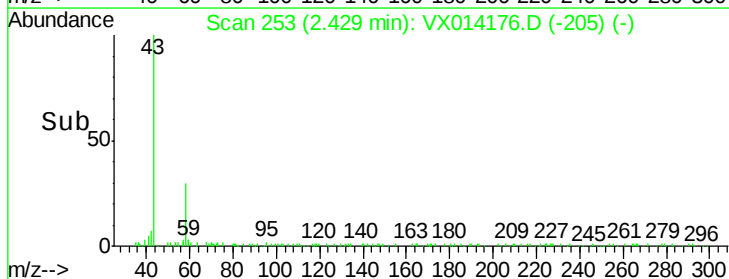
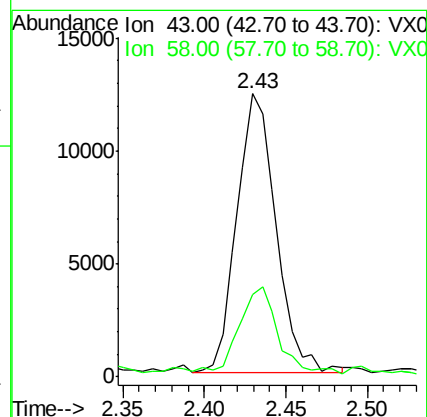
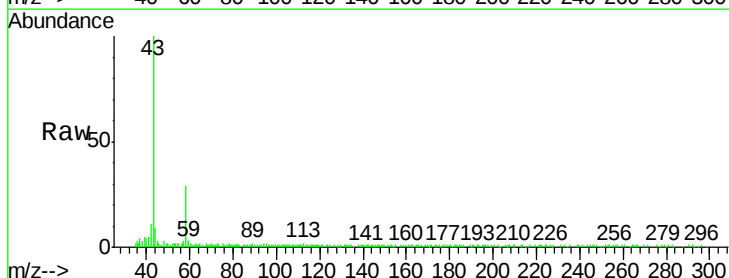
Acq: 20 Dec 2019 16:03

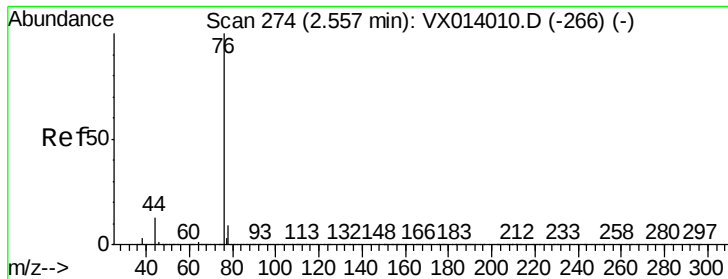
Tgt Ion: 43 Resp: 20585

Ion Ratio Lower Upper

43 100

58 27.5 24.9 37.3





#17

Carbon Disulfide

Concen: 0.802 ug/l

RT: 2.55 min Scan# 273

Delta R.T. -0.01 min

Lab File: VX014176.D

Acq: 20 Dec 2019 16:03

Instrument :

MSVOA_X

ClientSampleID :

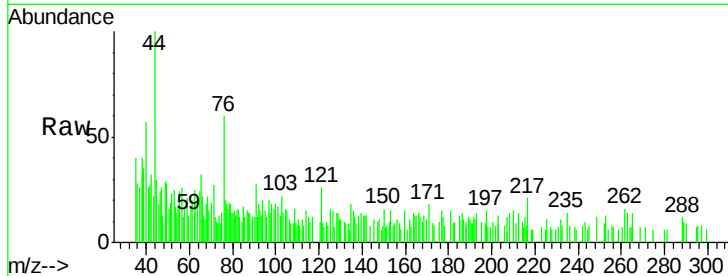
MH-20A

Tgt Ion: 76 Resp: 791

Ion Ratio Lower Upper

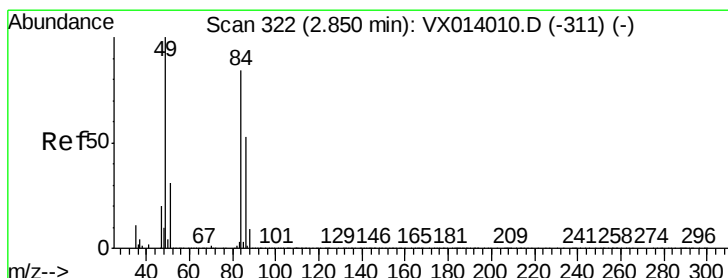
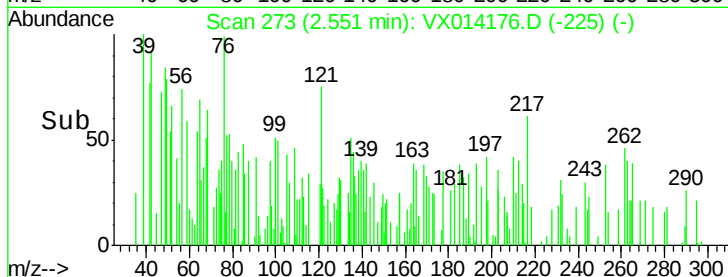
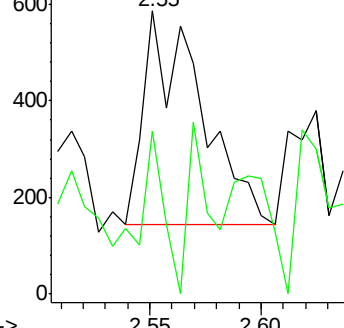
76 100

78 47.6 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#20

Methylene Chloride

Concen: 0.612 ug/l

RT: 2.85 min Scan# 322

Delta R.T. 0.00 min

Lab File: VX014176.D

Acq: 20 Dec 2019 16:03

Tgt Ion: 84 Resp: 3999

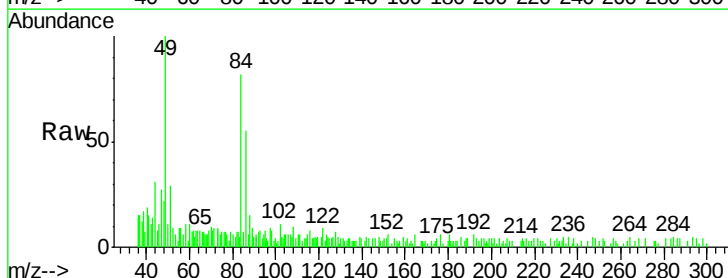
Ion Ratio Lower Upper

84 100

49 116.8 95.8 143.6

51 28.8 29.8 44.8#

86 66.0 50.8 76.2

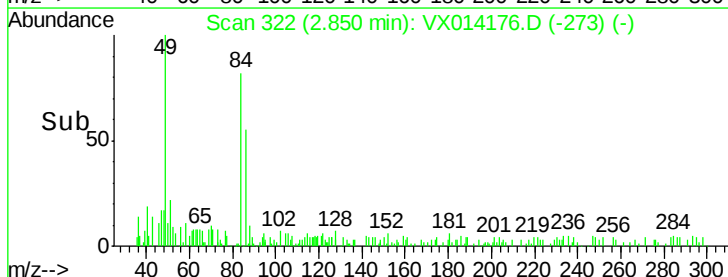
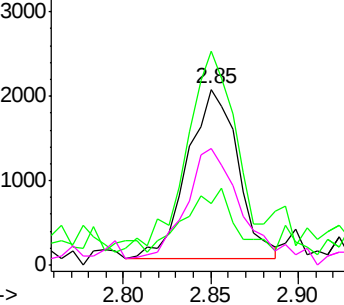


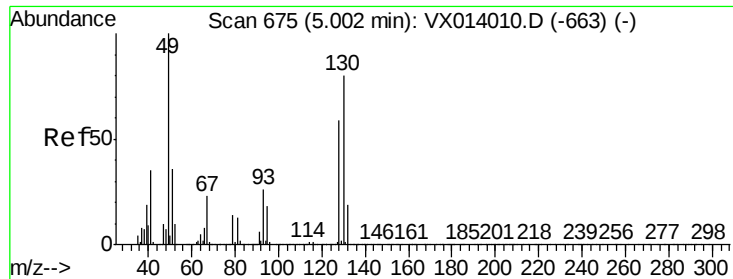
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0





#28

Bromochloromethane

Concen: 0.625 ug/l

RT: 5.01 min Scan# 676

Delta R.T. 0.01 min

Lab File: VX014176.D

Acq: 20 Dec 2019 16:03

Instrument :

MSVOA_X

ClientSampled :

MH-20A

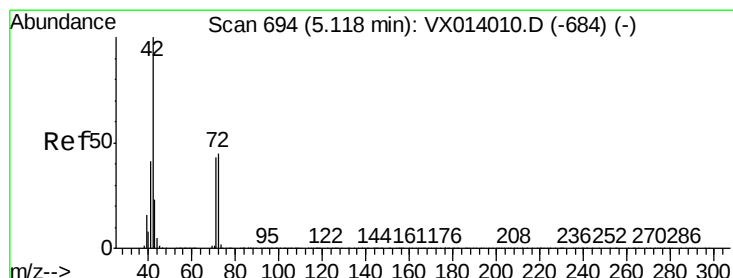
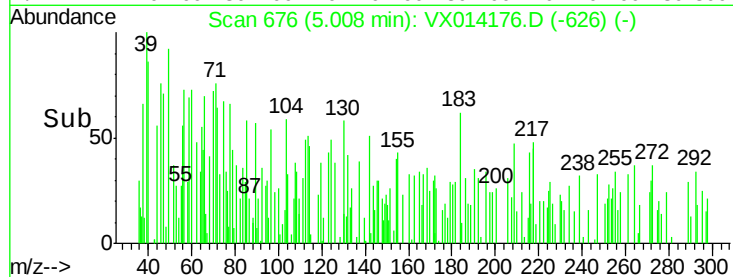
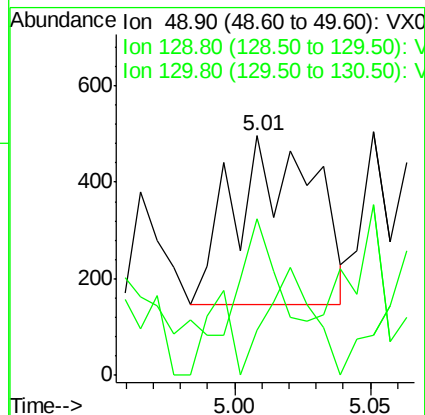
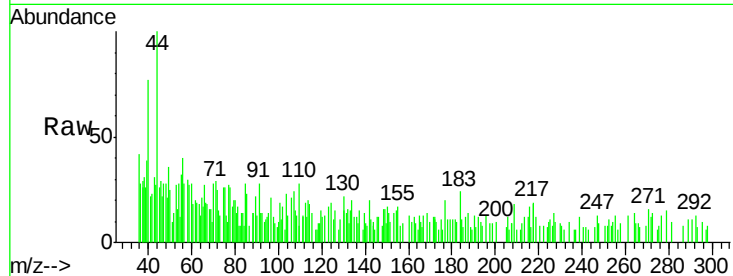
Tgt Ion: 49 Resp: 714

Ion Ratio Lower Upper

49 100

129 36.7 0.0 5.0#

130 38.5 64.6 97.0#



#29

Tetrahydrofuran

Concen: 0.226 ug/l

RT: 5.13 min Scan# 696

Delta R.T. 0.01 min

Lab File: VX014176.D

Acq: 20 Dec 2019 16:03

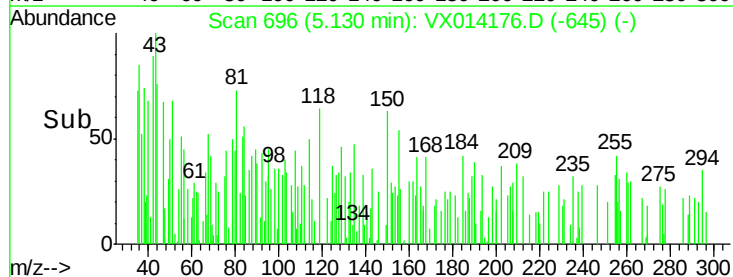
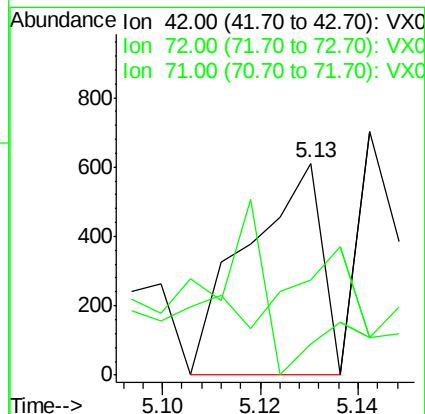
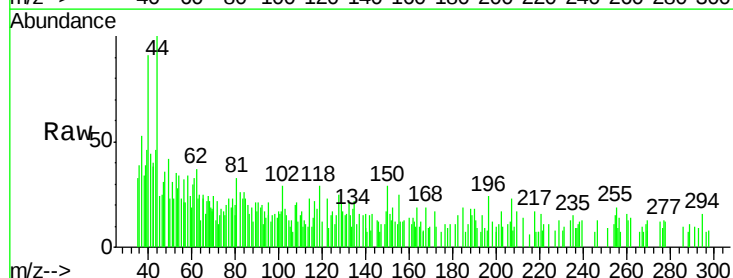
Tgt Ion: 42 Resp: 647

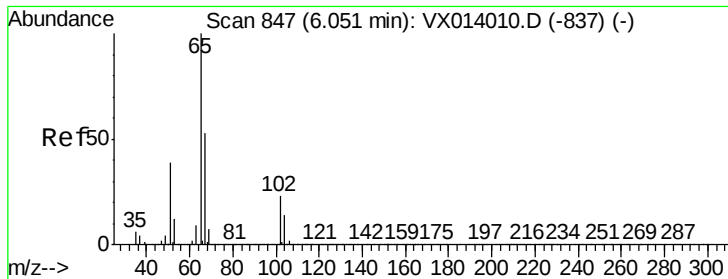
Ion Ratio Lower Upper

42 100

72 70.3 35.8 53.8#

71 48.7 33.6 50.4





#33

1,2-Dichloroethane-d4

Concen: 47.949 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX014176.D

Acq: 20 Dec 2019 16:03

Instrument :

MSVOA_X

ClientSampleId :

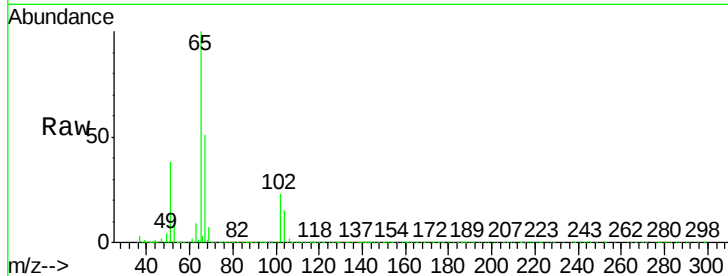
MH-20A

Tgt Ion: 65 Resp: 306257

Ion Ratio Lower Upper

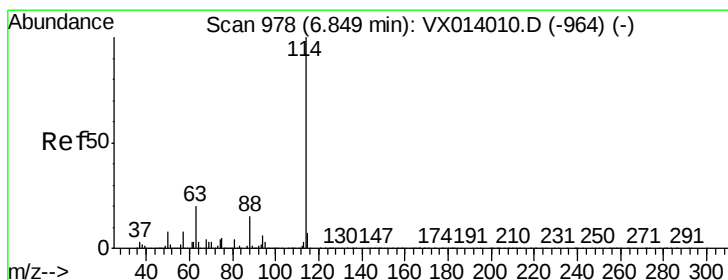
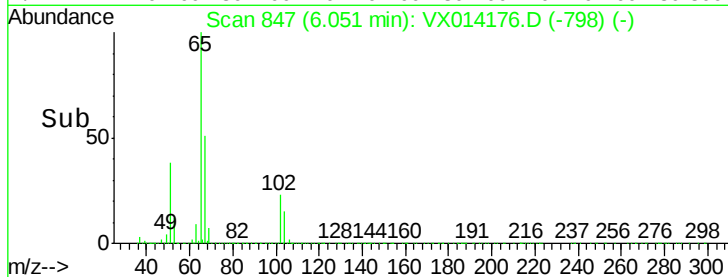
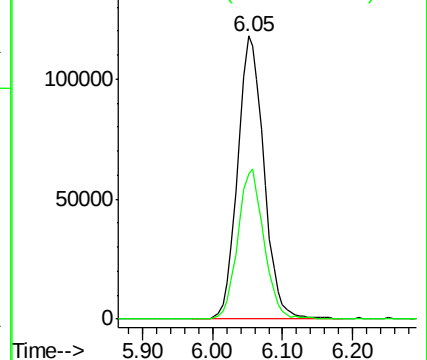
65 100

67 52.7 0.0 106.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX014176.D

Acq: 20 Dec 2019 16:03

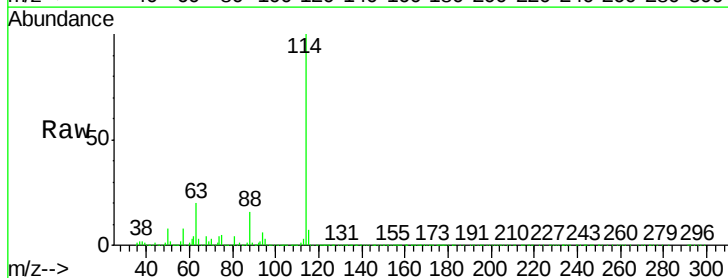
Tgt Ion: 114 Resp: 855143

Ion Ratio Lower Upper

114 100

63 20.4 0.0 40.8

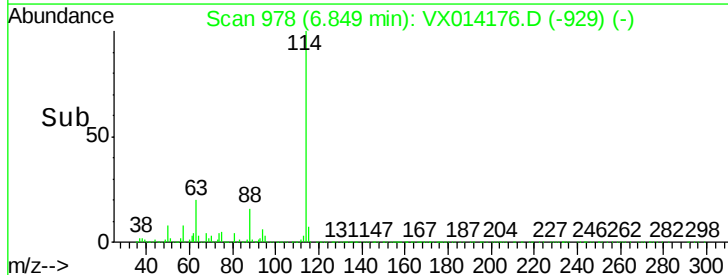
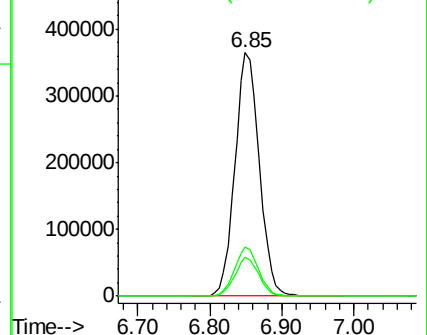
88 16.1 0.0 30.4

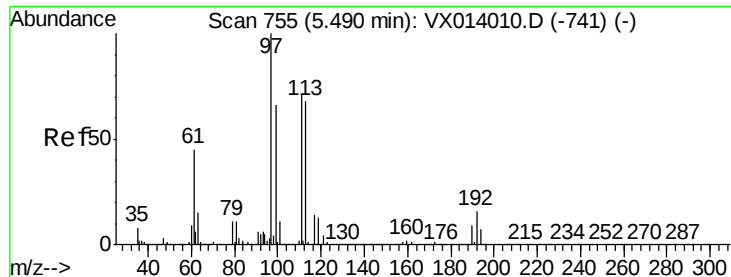


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 48.805 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014176.D

Acq: 20 Dec 2019 16:03

Instrument :

MSVOA_X

ClientSampleId :

MH-20A

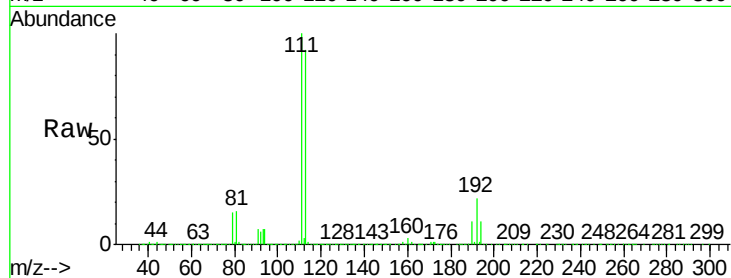
Tgt Ion: 113 Resp: 253704

Ion Ratio Lower Upper

113 100

111 102.2 82.0 123.0

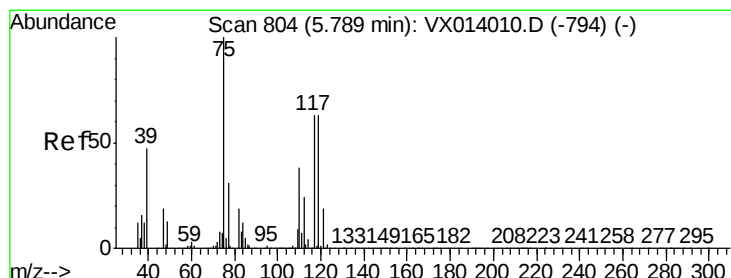
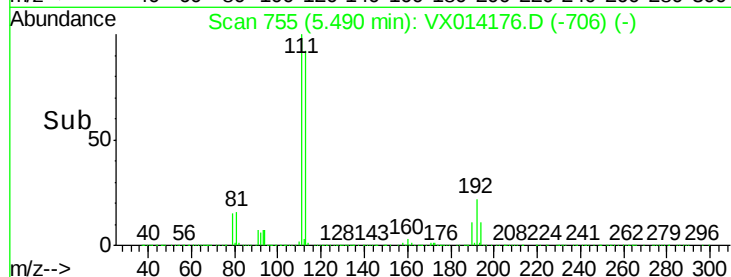
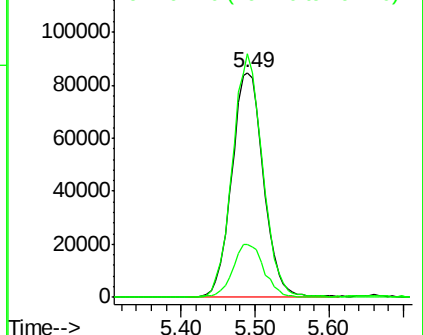
192 23.5 19.3 28.9



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: 4.806 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX014176.D

Acq: 20 Dec 2019 16:03

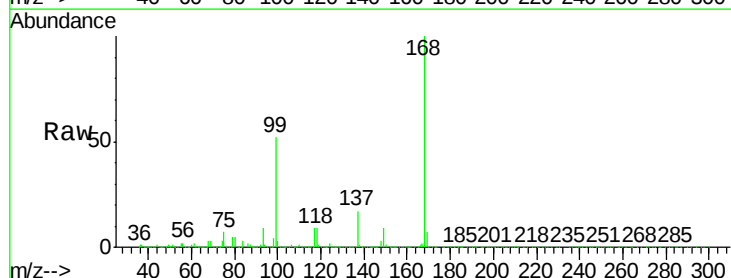
Tgt Ion: 75 Resp: 37707

Ion Ratio Lower Upper

75 100

110 10.6 18.3 54.9#

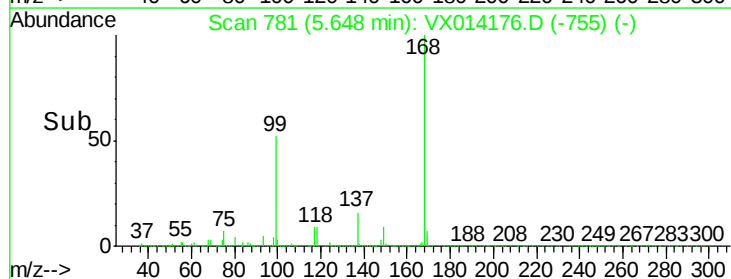
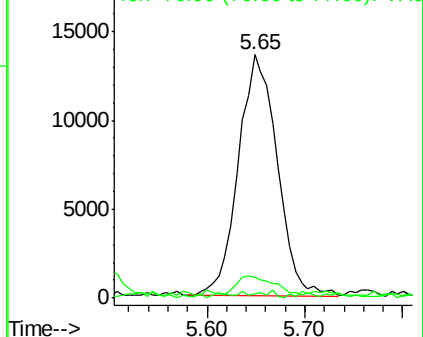
77 0.3 24.8 37.2#

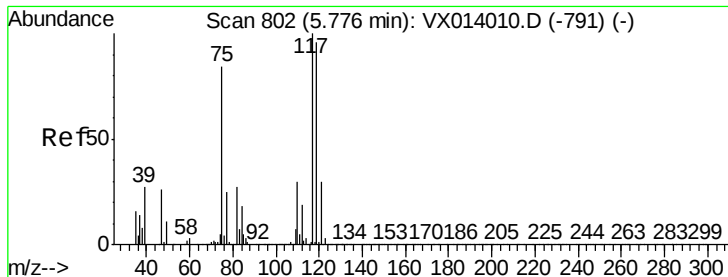


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.766 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX014176.D

Acq: 20 Dec 2019 16:03

Instrument :

MSVOA_X

ClientSampled :

MH-20A

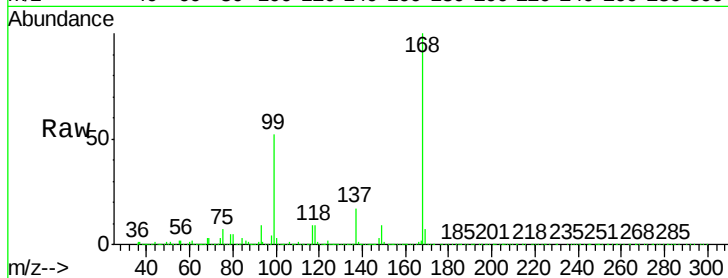
Tgt Ion: 117 Resp: 48360

Ion Ratio Lower Upper

117 100

119 5.7 76.2 114.4#

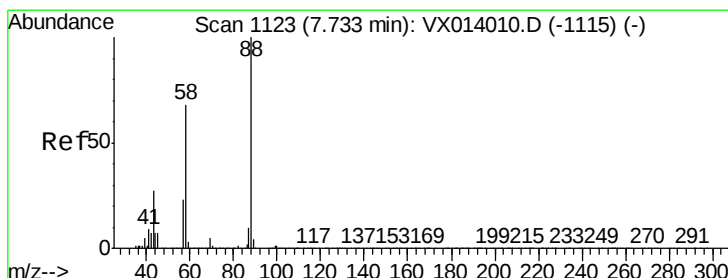
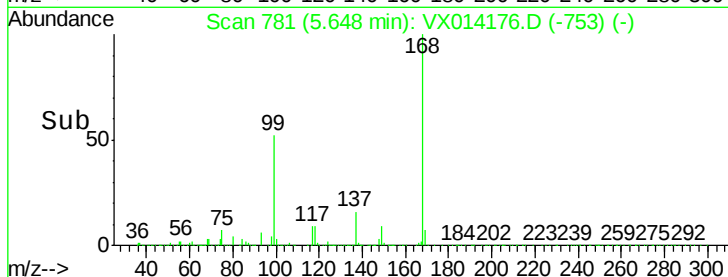
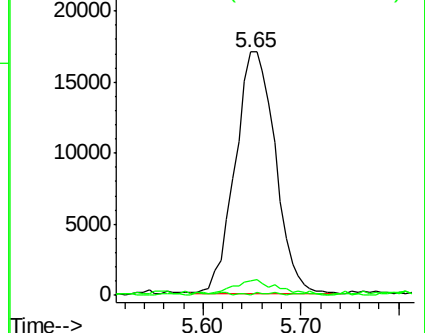
121 0.0 23.6 35.4#



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: 0.847 ug/l

RT: 7.73 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VX014176.D

Acq: 20 Dec 2019 16:03

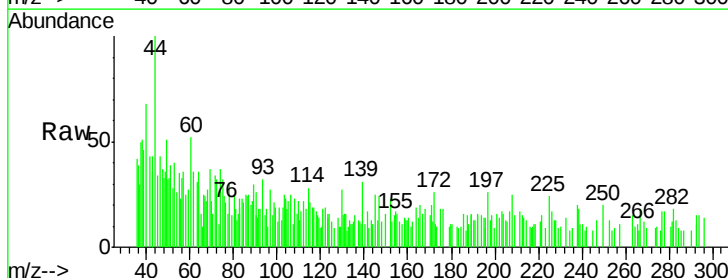
Tgt Ion: 88 Resp: 121

Ion Ratio Lower Upper

88 100

43 0.0 26.5 39.7#

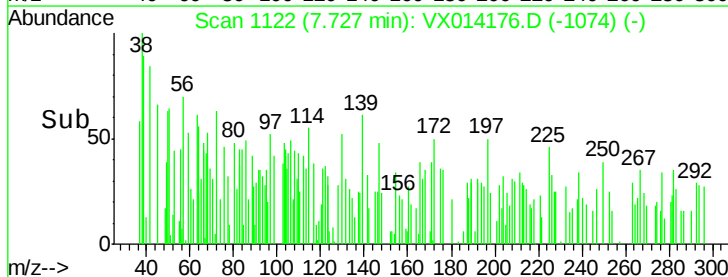
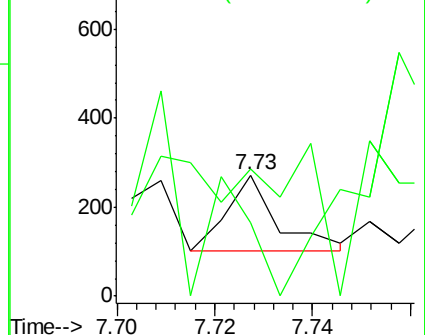
58 0.0 56.8 85.2#

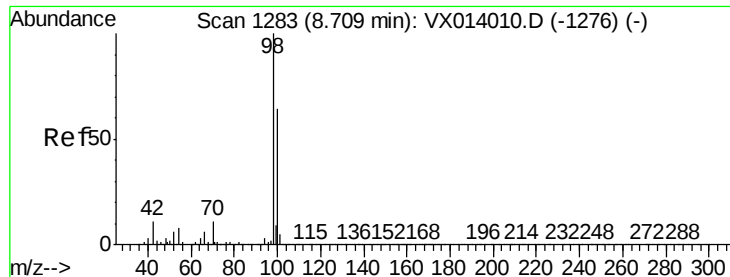


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 49.353 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014176.D

Acq: 20 Dec 2019 16:03

Instrument :

MSVOA_X

ClientSampleId :

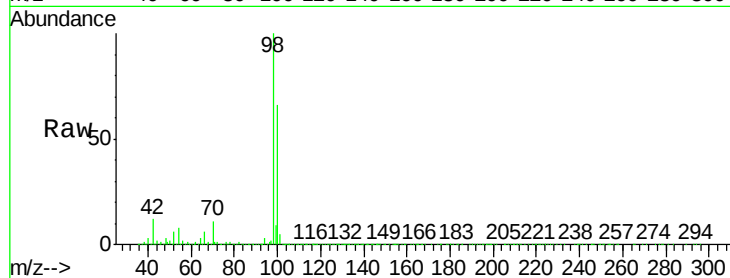
MH-20A

Tgt Ion: 98 Resp: 998828

Ion Ratio Lower Upper

98 100

100 65.8 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

8.71

600000

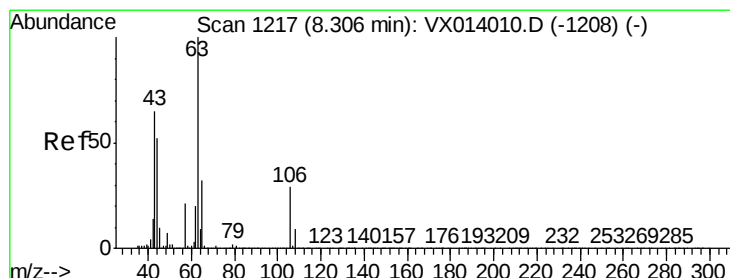
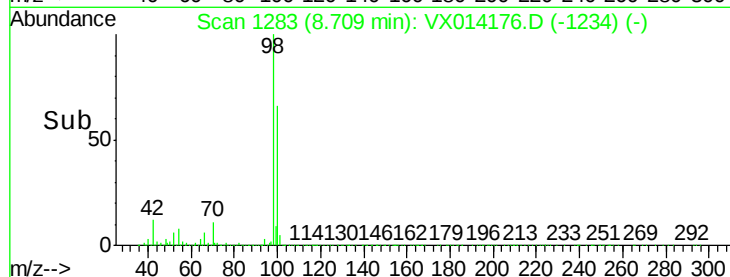
400000

200000

0

8.60 8.70 8.80

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 0.281 ug/l

RT: 8.32 min Scan# 1219

Delta R.T. 0.01 min

Lab File: VX014176.D

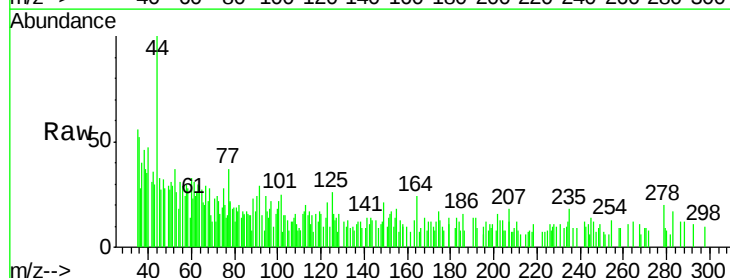
Acq: 20 Dec 2019 16:03

Tgt Ion: 63 Resp: 1022

Ion Ratio Lower Upper

63 100

106 0.0 23.0 34.6#



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 105.90 (105.60 to 106.60): V

8.32

800

600

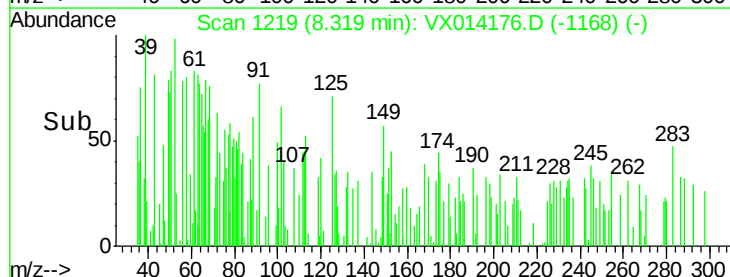
400

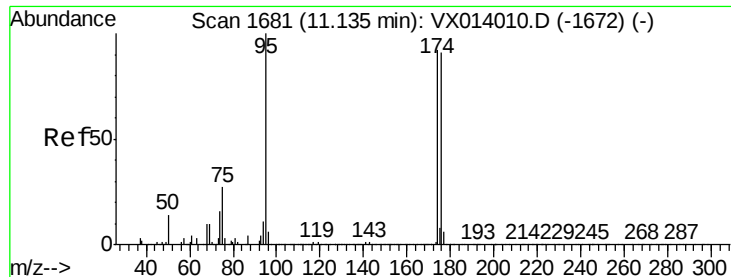
200

0

8.30 8.35

Time-->





#62

4-Bromofluorobenzene

Concen: 46.450 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.01 min

Lab File: VX014176.D

Acq: 20 Dec 2019 16:03

Instrument :

MSVOA_X

ClientSampleId :

MH-20A

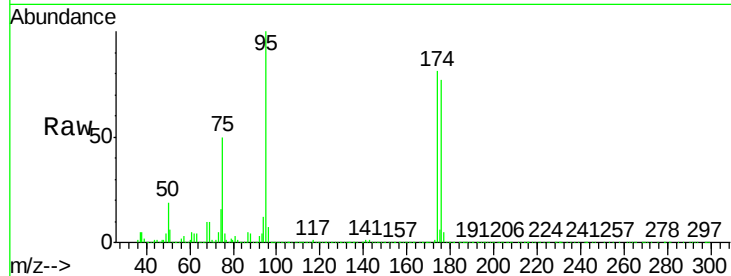
Tgt Ion: 95 Resp: 343638

Ion Ratio Lower Upper

95 100

174 90.2 0.0 175.8

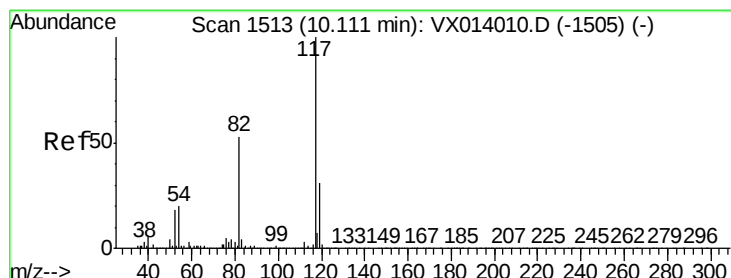
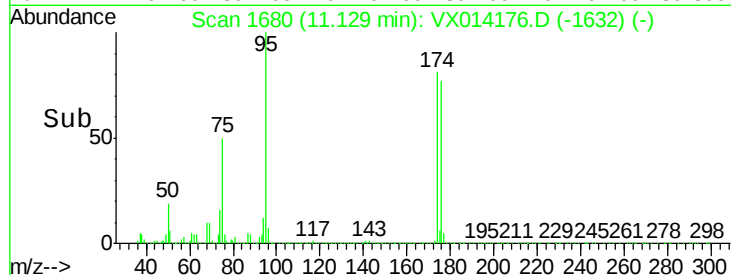
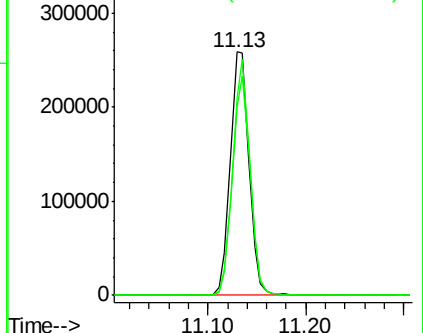
176 85.8 0.0 173.0



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX014176.D

Acq: 20 Dec 2019 16:03

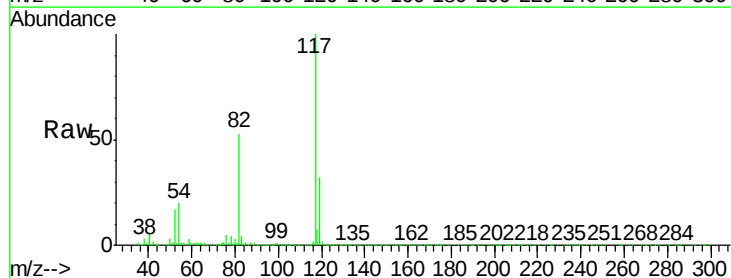
Tgt Ion: 117 Resp: 758723

Ion Ratio Lower Upper

117 100

82 52.6 42.2 63.4

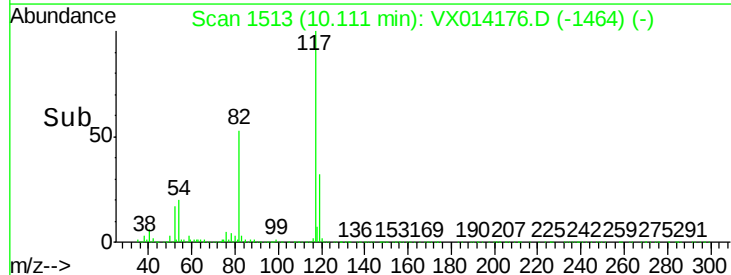
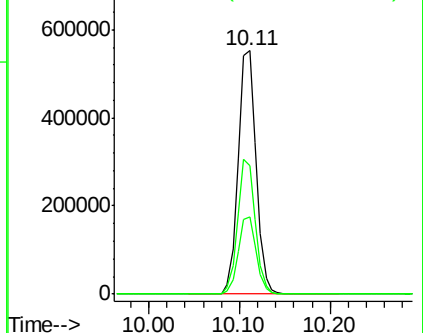
119 31.7 25.1 37.7

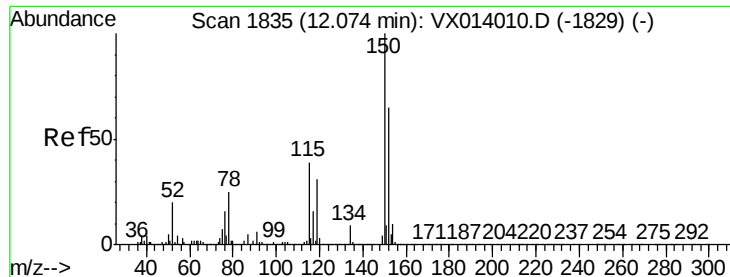


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX014176.D

Acq: 20 Dec 2019 16:03

Instrument :

MSVOA_X

ClientSampleId :

MH-20A

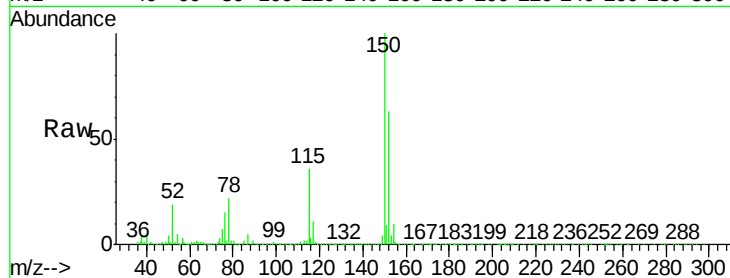
Tgt Ion:152 Resp: 343778

Ion Ratio Lower Upper

152 100

115 55.3 38.3 114.9

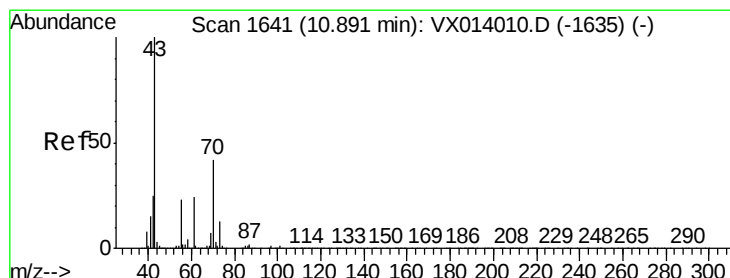
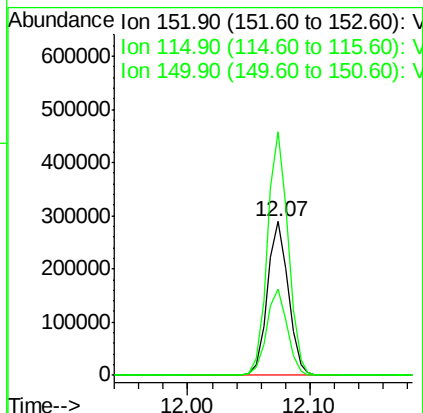
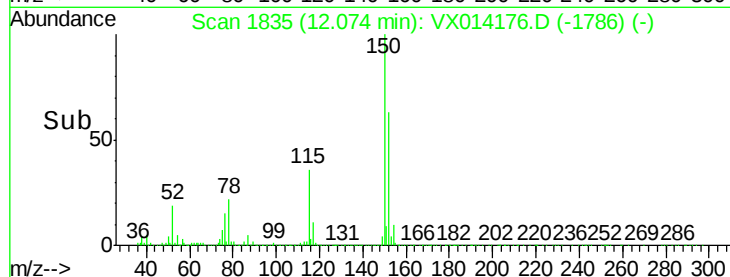
150 156.6 0.0 345.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 0.323 ug/l

RT: 10.91 min Scan# 1644

Delta R.T. 0.02 min

Lab File: VX014176.D

Acq: 20 Dec 2019 16:03

Tgt Ion: 43 Resp: 3664

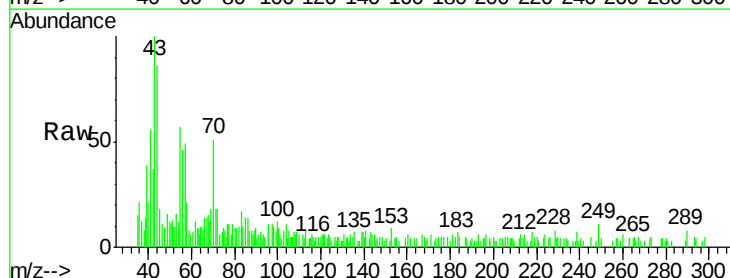
Ion Ratio Lower Upper

43 100

70 37.3 34.4 51.6

55 42.1 19.1 28.7#

61 0.0 19.7 29.5#

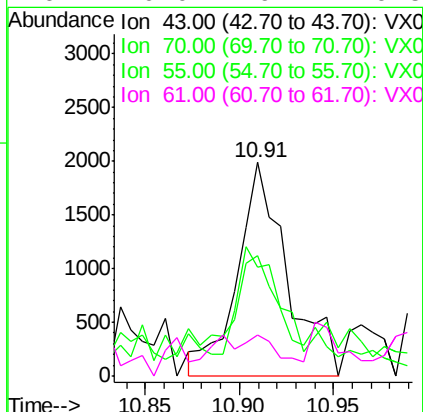
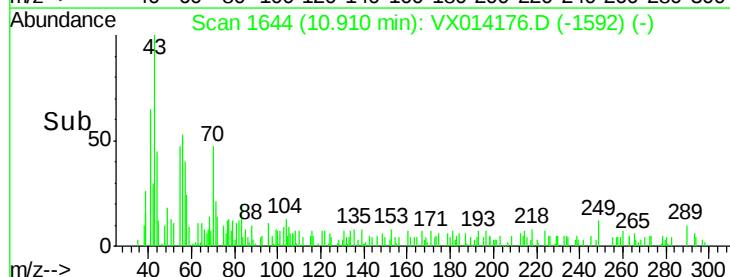


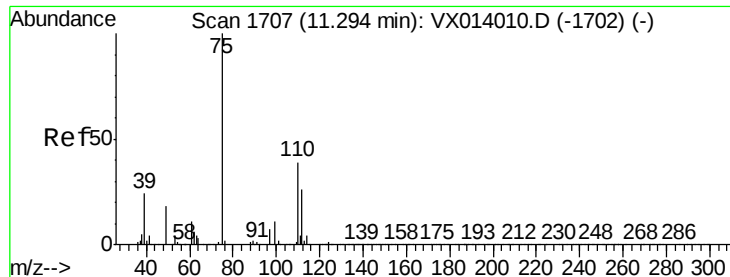
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0





#76

1,2,3-Trichloropropane

Concen: 22.288 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014176.D

Acq: 20 Dec 2019 16:03

Instrument :

MSVOA_X

ClientSampleId :

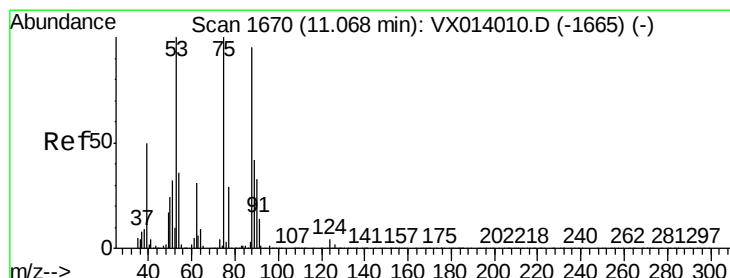
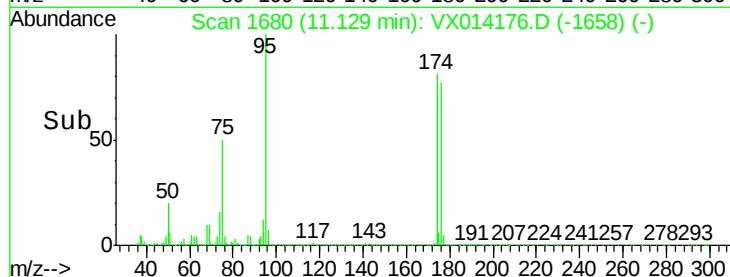
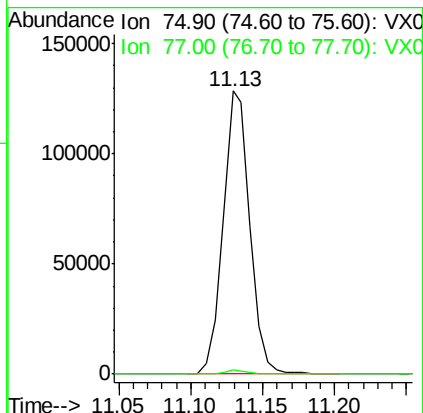
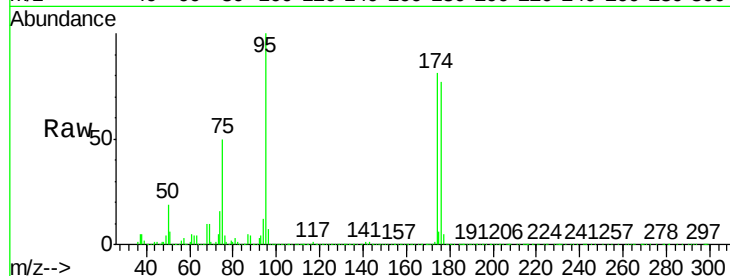
MH-20A

Tgt Ion: 75 Resp: 166341

Ion Ratio Lower Upper

75 100

77 1.7 19.3 57.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 62.907 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014176.D

Acq: 20 Dec 2019 16:03

Tgt Ion: 75 Resp: 166341

Ion Ratio Lower Upper

75 100

53 0.2 76.7 115.1#

89 0.0 34.6 51.8#

