

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121819\
 Data File : VX014106.D
 Acq On : 18 Dec 2019 18:54
 Operator : JC/SP
 Sample : K6369-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-3

Quant Time: Dec 19 03:02:26 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	555733	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	866248	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	766824	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	326529	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	310792	49.34	ug/l	0.00
Spiked Amount			Recovery	=	98.68%	
35) Dibromofluoromethane	5.49	113	255534	48.53	ug/l	0.00
Spiked Amount			Recovery	=	97.06%	
50) Toluene-d8	8.71	98	1013780	49.45	ug/l	0.00
Spiked Amount			Recovery	=	98.90%	
62) 4-Bromofluorobenzene	11.13	95	337780	45.07	ug/l	0.00
Spiked Amount			Recovery	=	90.14%	

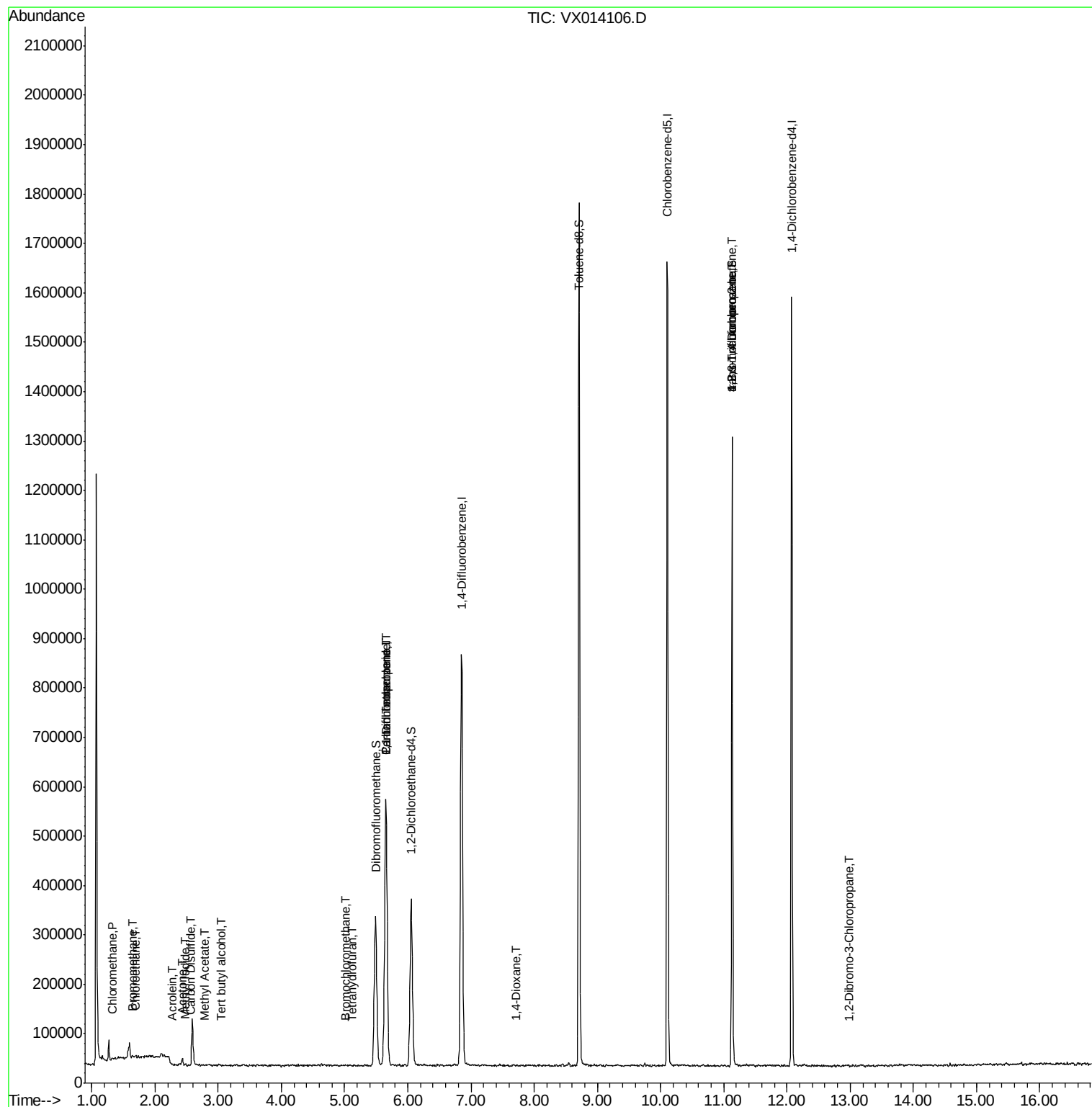
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	2725	0.408	ug/l #	80
5) Bromomethane	1.66	94	1015	0.203	ug/l #	12
6) Chloroethane	1.69	64	1235	0.284	ug/l #	84
10) Methyl Iodide	2.48	142	112	2.636	ug/l #	1
11) Tert butyl alcohol	3.03	59	4010	2.946	ug/l	95
13) Acrolein	2.28	56	458	0.588	ug/l #	66
16) Acetone	2.43	43	16199	3.962	ug/l	98
17) Carbon Disulfide	2.56	76	110	0.757	ug/l #	1
18) Methyl Acetate	2.78	43	1812	0.224	ug/l #	90
28) Bromochloromethane	5.00	49	642	0.610	ug/l #	68
29) Tetrahydrofuran	5.11	42	780	0.277	ug/l #	78
36) 1,1-Dichloropropene	5.65	75	39028	4.910	ug/l #	50
38) Carbon Tetrachloride	5.65	117	49935	6.896	ug/l #	17
49) 1,4-Dioxane	7.72	88	205	1.416	ug/l #	38
76) 1,2,3-Trichloropropane	11.13	75	160896	22.697	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	160896	64.063	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	12.99	75	375	0.213	ug/l #	35

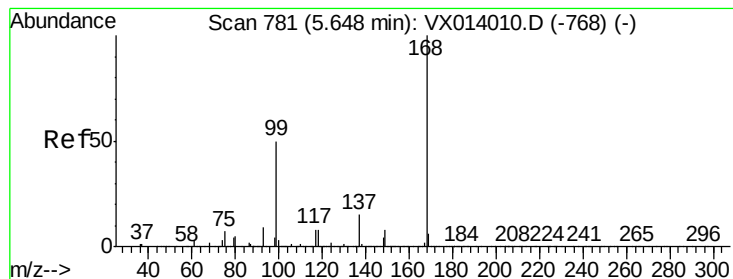
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX014106.D

Acq: 18 Dec 2019 18:54

Instrument :

MSVOA_X

ClientSampled :

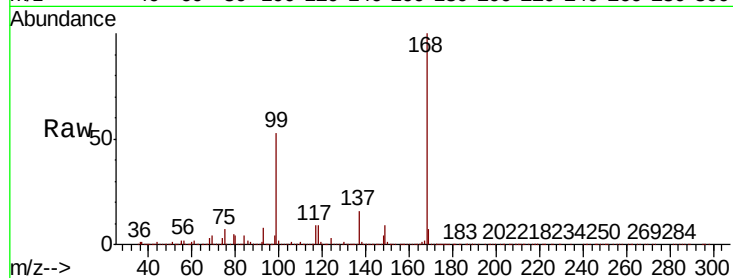
MW-3

Tot Ion:168 Resp: 555733

Ion Ratio Lower Upper

168 100

99 52.5 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

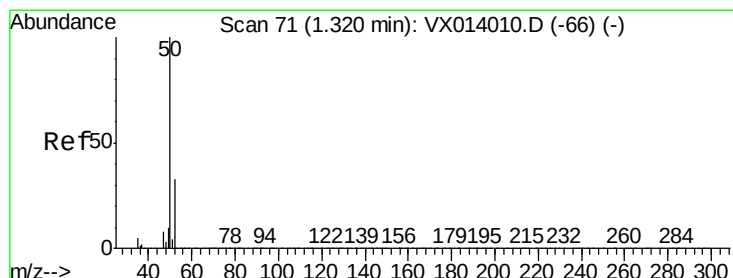
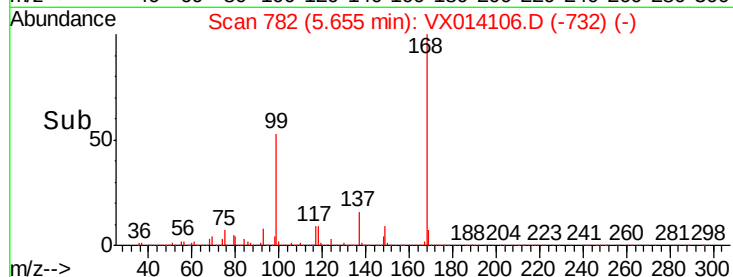
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.408 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX014106.D

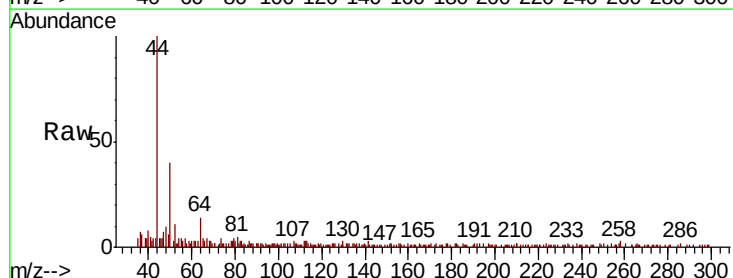
Acq: 18 Dec 2019 18:54

Tgt Ion: 50 Resp: 2725

Ion Ratio Lower Upper

50 100

52 21.7 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

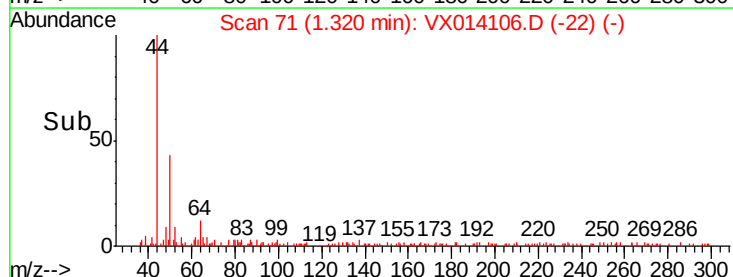
3000

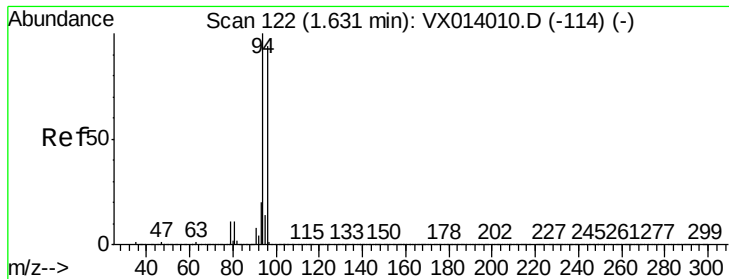
2000

1000

0

Time-->





#5

Bromomethane

Concen: 0.203 ug/l

RT: 1.66 min Scan# 126

Delta R.T. 0.02 min

Lab File: VX014106.D

Acq: 18 Dec 2019 18:54

Instrument :

MSVOA_X

ClientSampled :

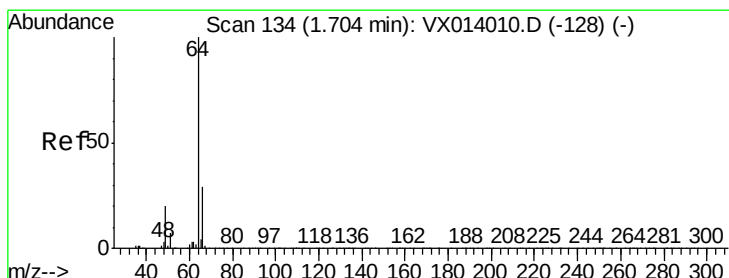
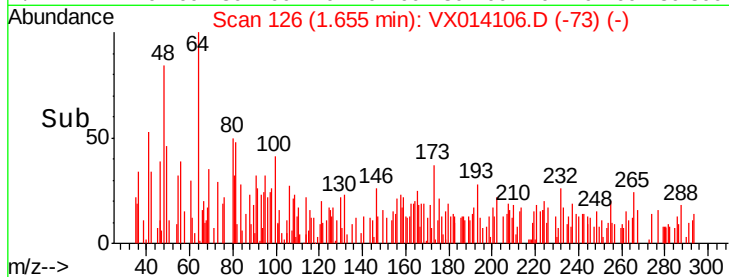
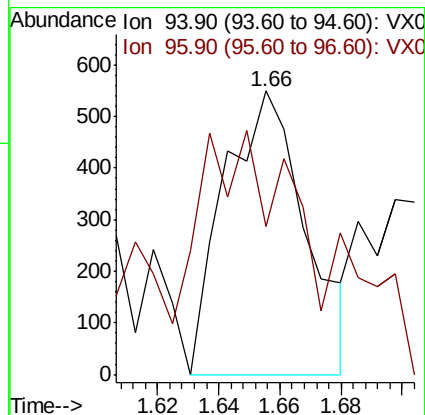
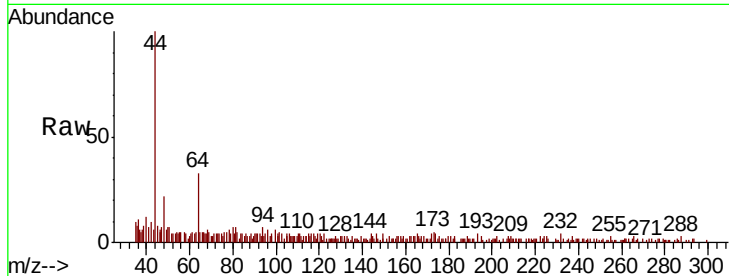
MW-3

Tot Ion: 94 Resp: 1015

Ion Ratio Lower Upper

94 100

96 8.9 75.2 112.8#



#6

Chloroethane

Concen: 0.284 ug/l

RT: 1.69 min Scan# 131

Delta R.T. -0.02 min

Lab File: VX014106.D

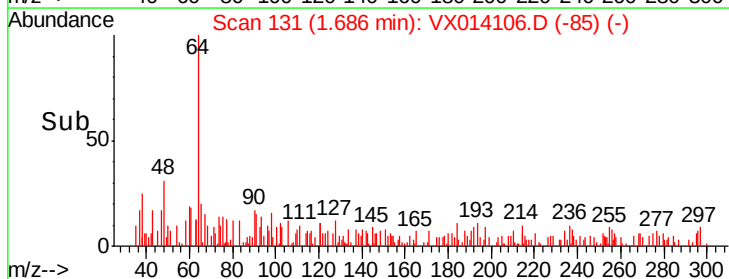
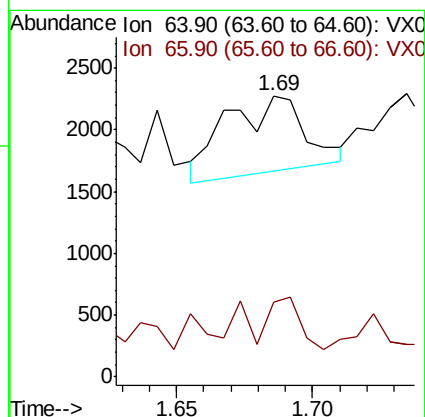
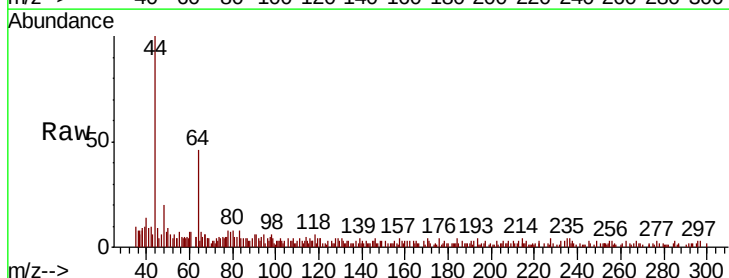
Acq: 18 Dec 2019 18:54

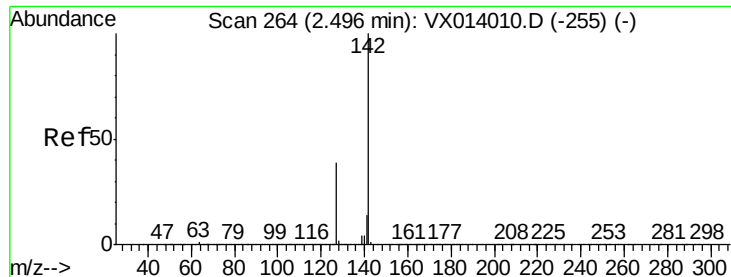
Tgt Ion: 64 Resp: 1235

Ion Ratio Lower Upper

64 100

66 20.7 23.4 35.2#





#10

Methyl Iodide

Concen: 2.636 ug/l

RT: 2.48 min Scan# 261

Delta R.T. -0.02 min

Lab File: VX014106.D

Acq: 18 Dec 2019 18:54

Instrument :

MSVOA_X

ClientSampled :

MW-3

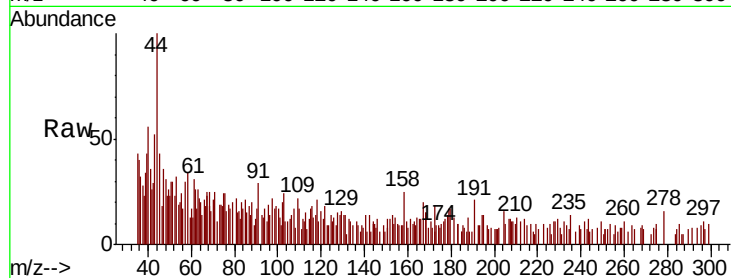
Tot Ion:142 Resp: 112

Ion Ratio Lower Upper

142 100

127 308.0 31.6 47.4#

141 233.9 11.6 17.4#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

400

300

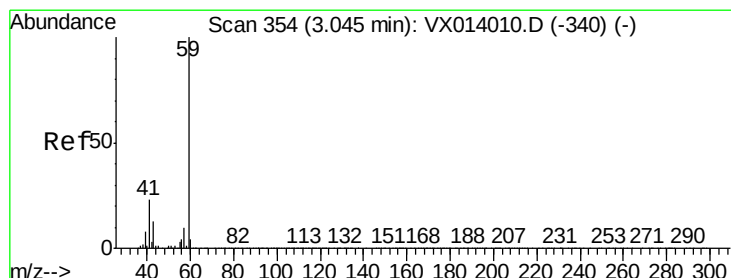
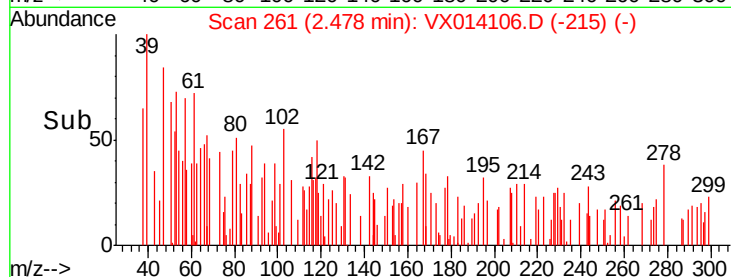
200

100

0

2.46 2.47 2.48 2.49 2.50

Time-->



#11

Tert butyl alcohol

Concen: 2.946 ug/l

RT: 3.03 min Scan# 352

Delta R.T. -0.01 min

Lab File: VX014106.D

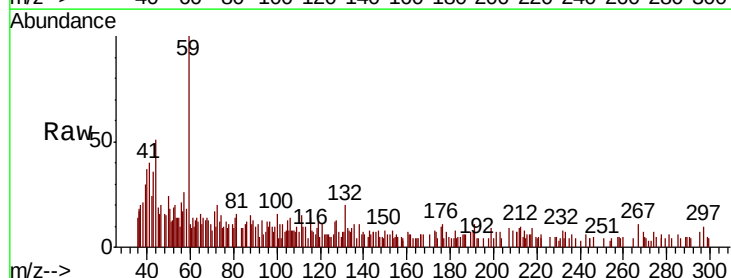
Acq: 18 Dec 2019 18:54

Tgt Ion: 59 Resp: 4010

Ion Ratio Lower Upper

59 100

57 8.7 8.4 12.6



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

1500

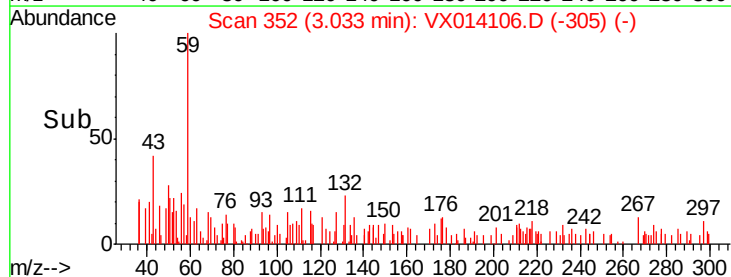
1000

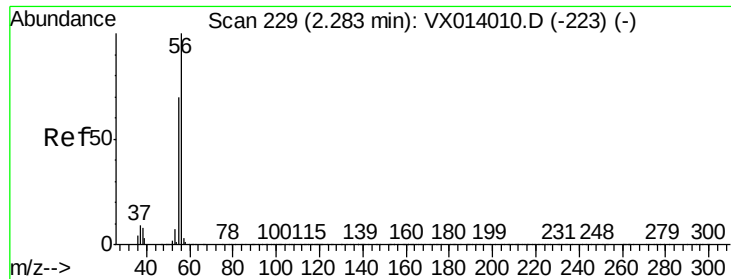
500

0

2.95 3.00 3.05 3.10

Time-->

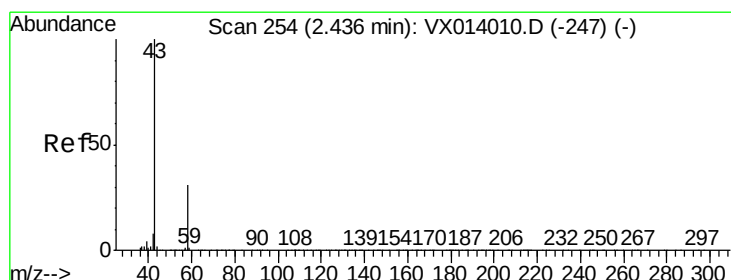
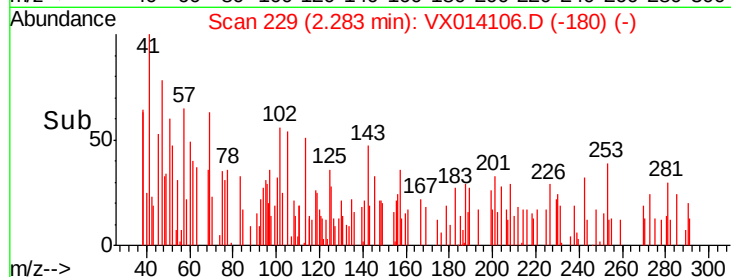
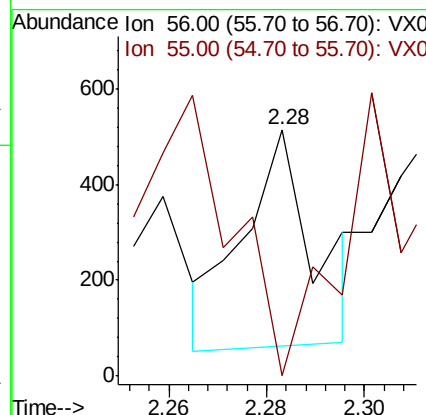
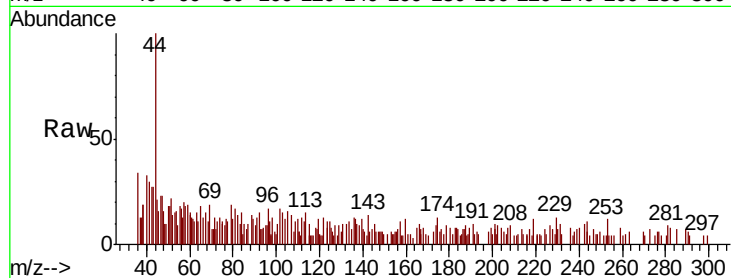




#13
Acrolein
Concen: 0.588 ug/l
RT: 2.28 min Scan# 229
Delta R.T. 0.00 min
Lab File: VX014106.D
Acq: 18 Dec 2019 18:54

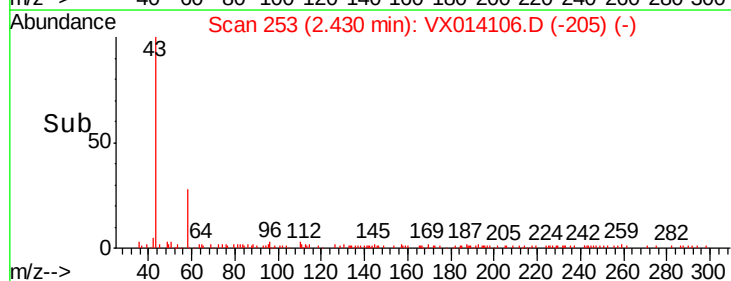
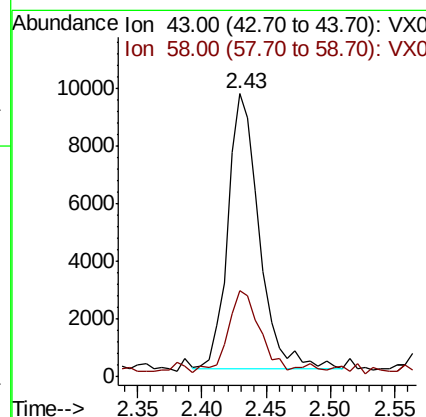
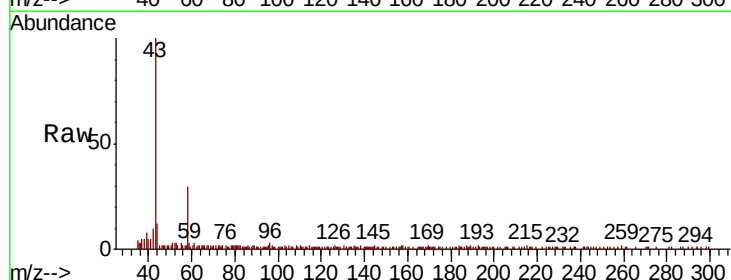
Instrument :
MSVOA_X
ClientSampled :
MW-3

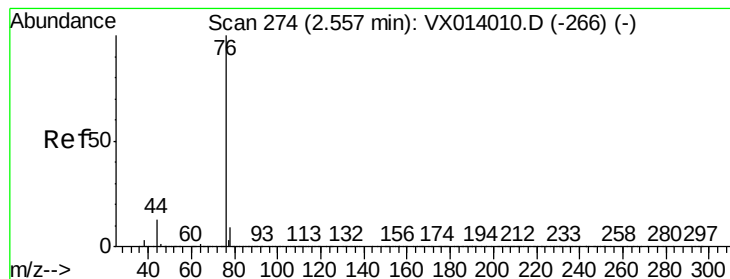
Tot Ion: 56 Resp: 458
Ion Ratio Lower Upper
56 100
55 99.6 56.9 85.3#



#16
Acetone
Concen: 3.962 ug/l
RT: 2.43 min Scan# 253
Delta R.T. -0.01 min
Lab File: VX014106.D
Acq: 18 Dec 2019 18:54

Tgt Ion: 43 Resp: 16199
Ion Ratio Lower Upper
43 100
58 29.9 24.9 37.3





#17

Carbon Disulfide

Concen: 0.757 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX014106.D

Acq: 18 Dec 2019 18:54

Instrument :

MSVOA_X

ClientSampled :

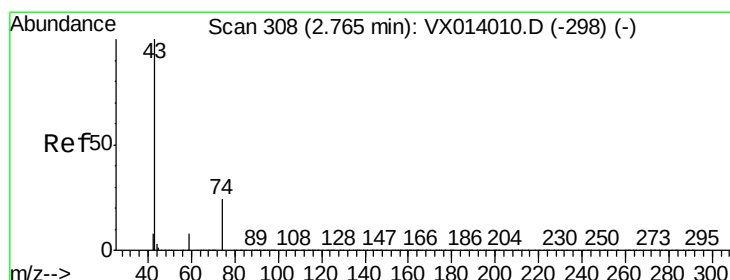
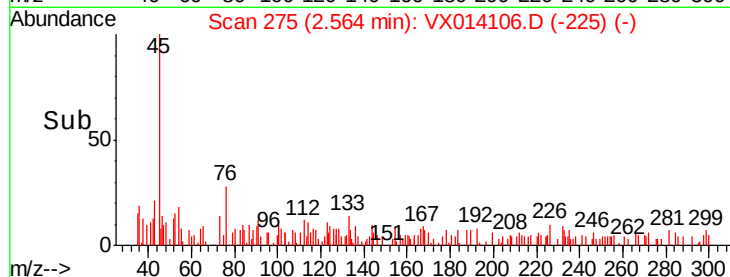
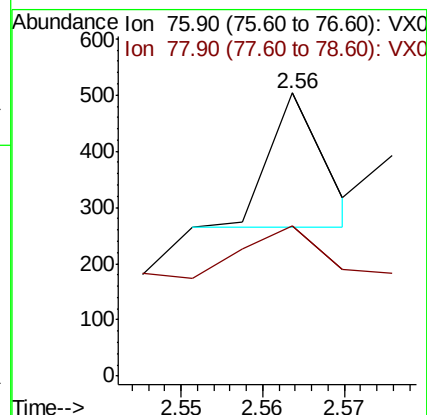
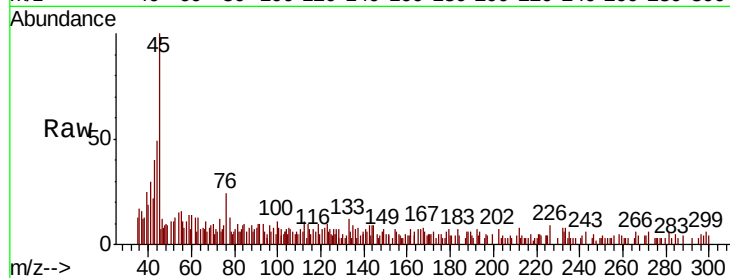
MW-3

Tot Ion: 76 Resp: 110

Ion Ratio Lower Upper

76 100

78 94.5 7.2 10.8#



#18

Methyl Acetate

Concen: 0.224 ug/l

RT: 2.78 min Scan# 311

Delta R.T. 0.02 min

Lab File: VX014106.D

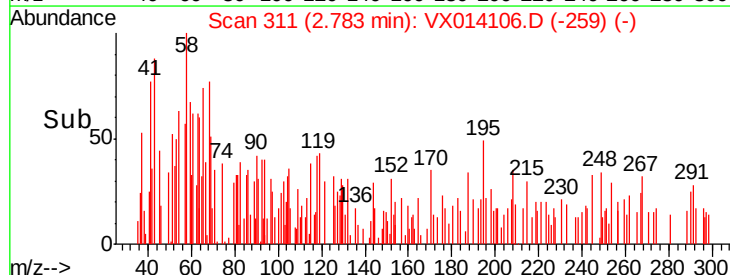
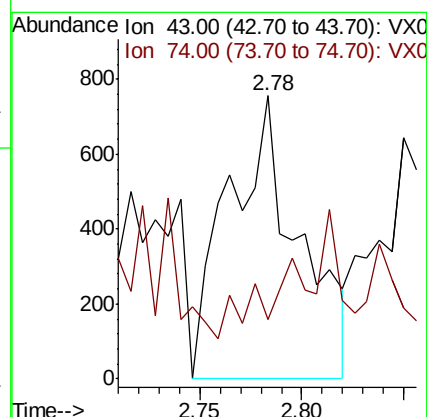
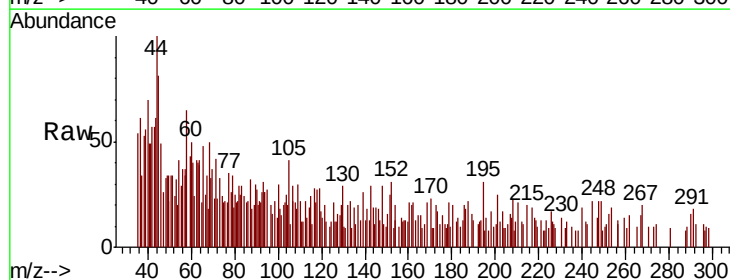
Acq: 18 Dec 2019 18:54

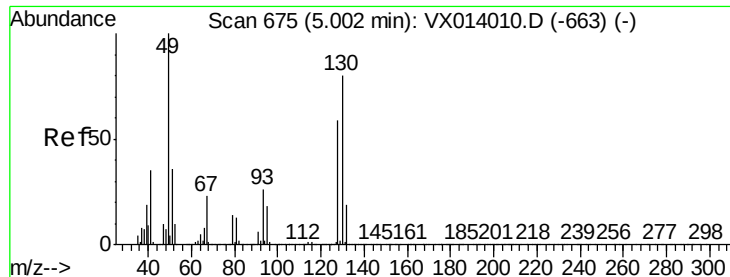
Tgt Ion: 43 Resp: 1812

Ion Ratio Lower Upper

43 100

74 19.2 19.5 29.3#





#28

Bromochloromethane

Concen: 0.610 ug/l

RT: 5.00 min Scan# 675

Delta R.T. 0.00 min

Lab File: VX014106.D

Acq: 18 Dec 2019 18:54

Instrument :

MSVOA_X

ClientSampled :

MW-3

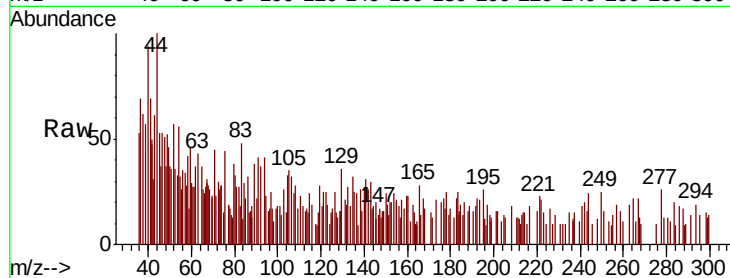
Tot Ion: 49 Resp: 642

Ion Ratio Lower Upper

49 100

129 59.8 0.0 5.0#

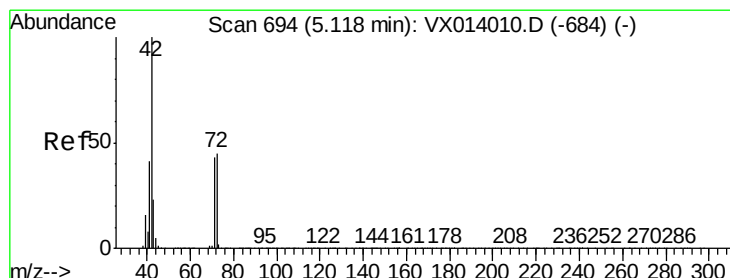
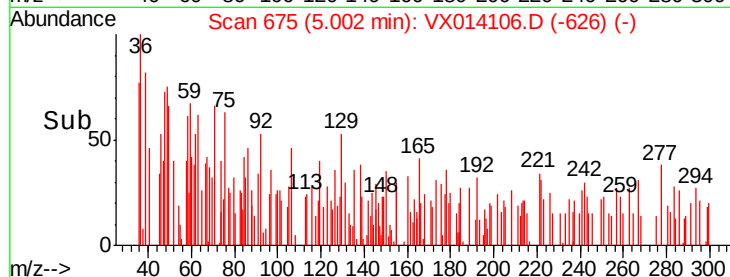
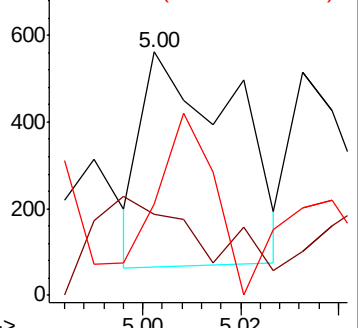
130 56.5 64.6 97.0#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#29

Tetrahydrofuran

Concen: 0.277 ug/l

RT: 5.11 min Scan# 692

Delta R.T. -0.01 min

Lab File: VX014106.D

Acq: 18 Dec 2019 18:54

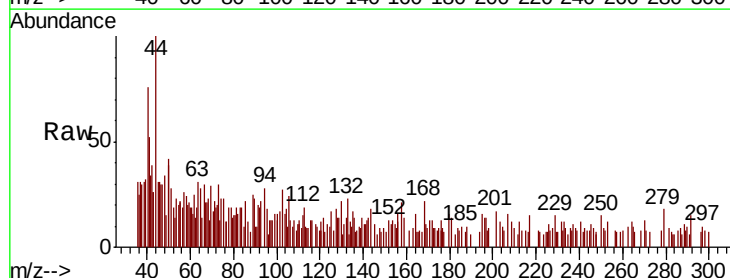
Tgt Ion: 42 Resp: 780

Ion Ratio Lower Upper

42 100

72 51.2 35.8 53.8

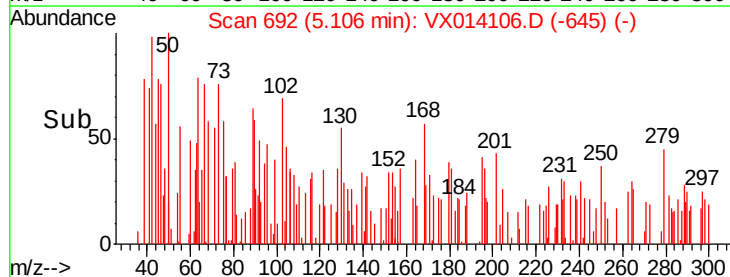
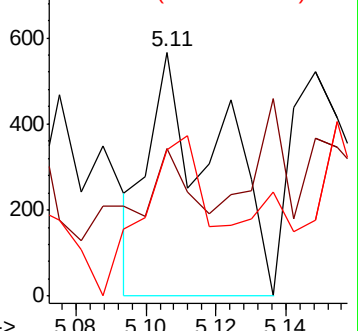
71 64.6 33.6 50.4#

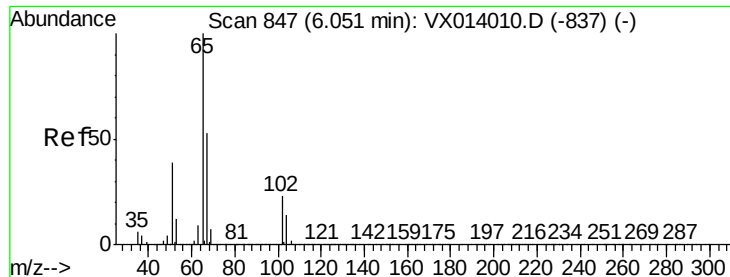


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 49.344 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX014106.D

Acq: 18 Dec 2019 18:54

Instrument :

MSVOA_X

ClientSampleId :

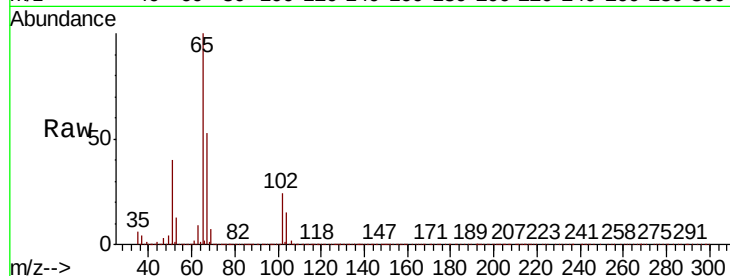
MW-3

Tot Ion: 65 Resp: 310792

Ion Ratio Lower Upper

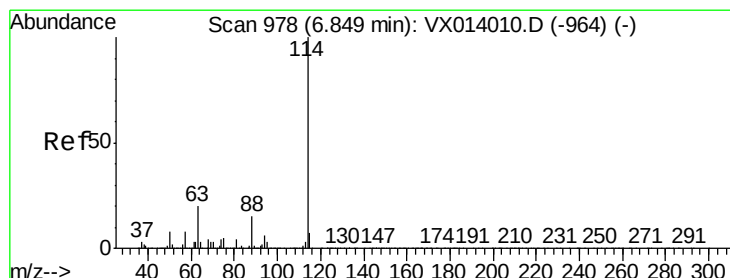
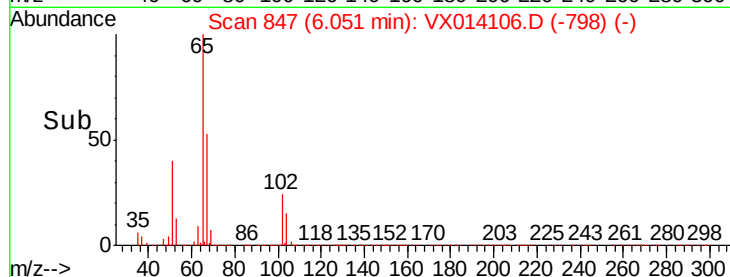
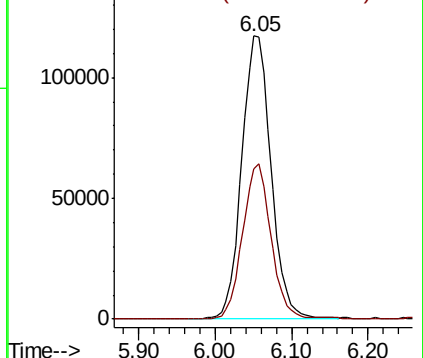
65 100

67 53.5 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: VX014106.D

Acq: 18 Dec 2019 18:54

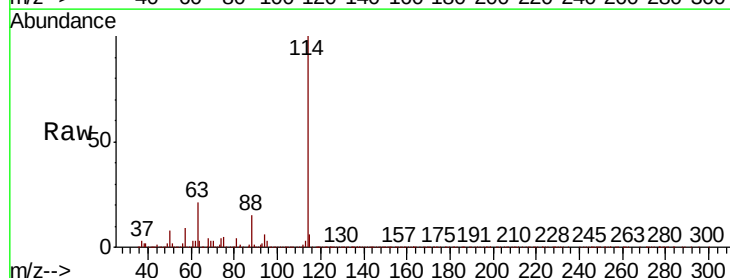
Tgt Ion: 114 Resp: 866248

Ion Ratio Lower Upper

114 100

63 20.6 0.0 40.8

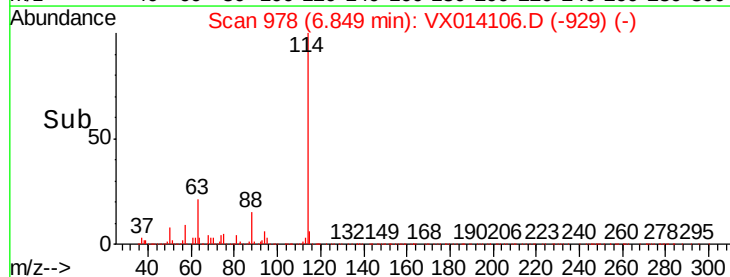
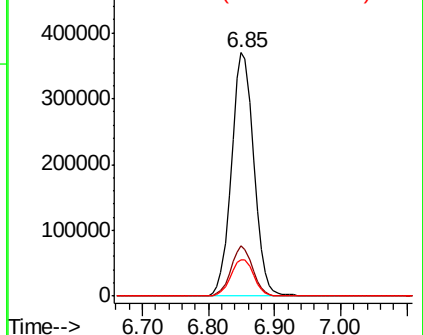
88 15.0 0.0 30.4

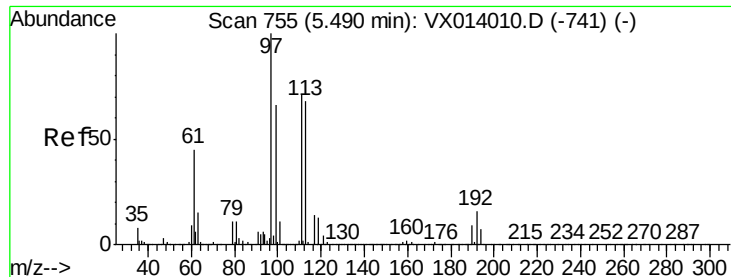


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 48.527 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014106.D

Acq: 18 Dec 2019 18:54

Instrument :

MSVOA_X

ClientSampleId :

MW-3

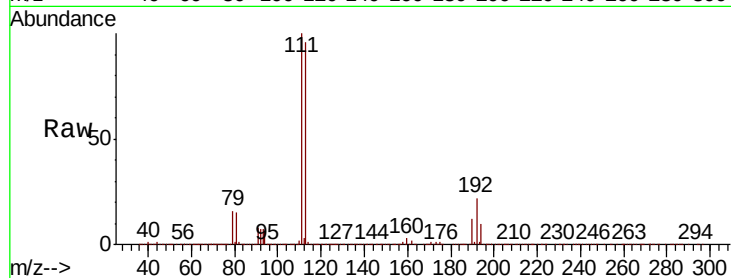
Tot Ion:113 Resp: 255534

Ion Ratio Lower Upper

113 100

111 103.6 82.0 123.0

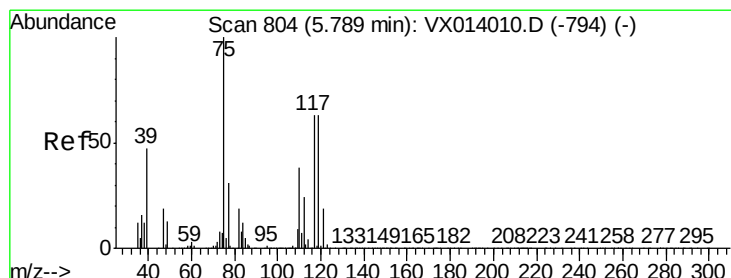
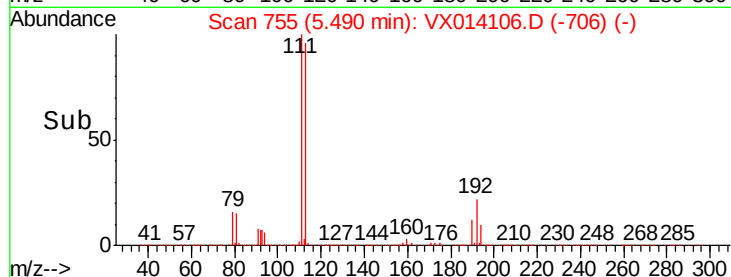
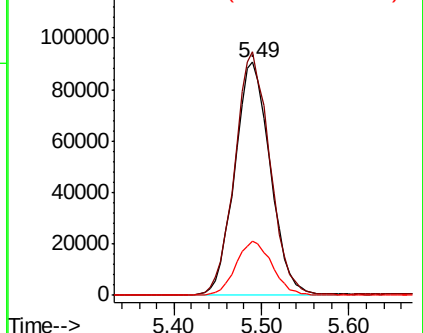
192 23.6 19.3 28.9



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: 4.910 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX014106.D

Acq: 18 Dec 2019 18:54

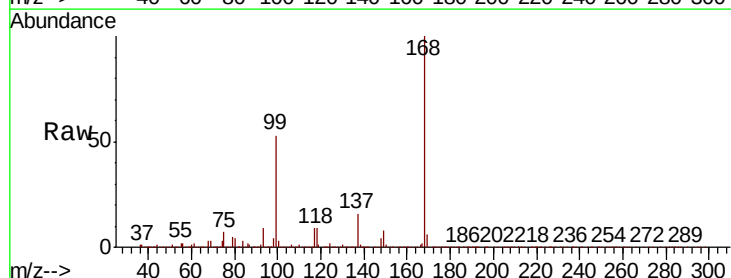
Tgt Ion: 75 Resp: 39028

Ion Ratio Lower Upper

75 100

110 10.4 18.3 54.9#

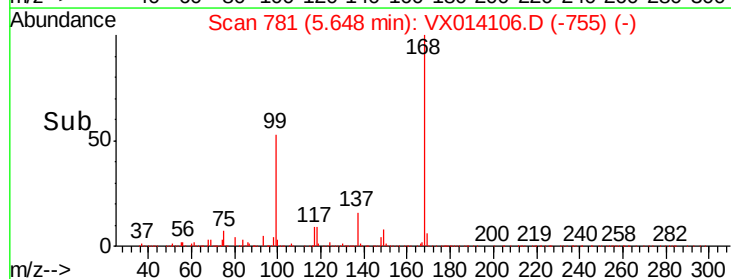
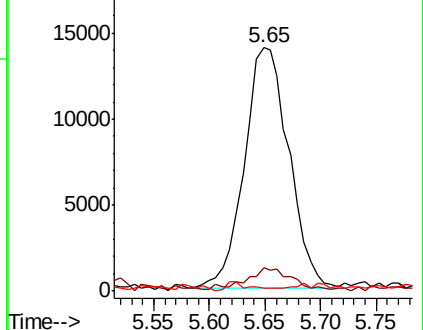
77 0.0 24.8 37.2#

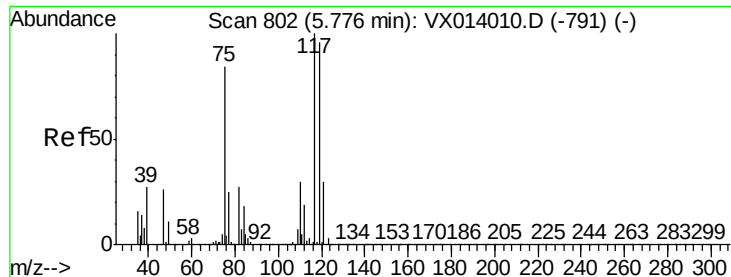


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

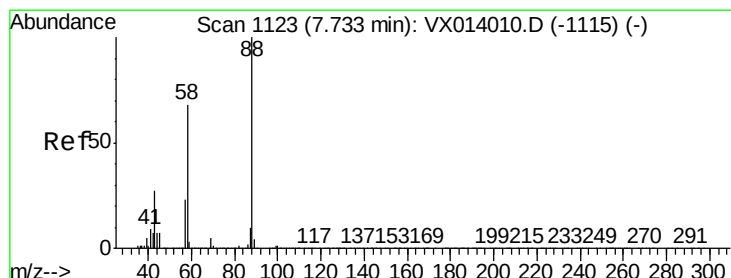
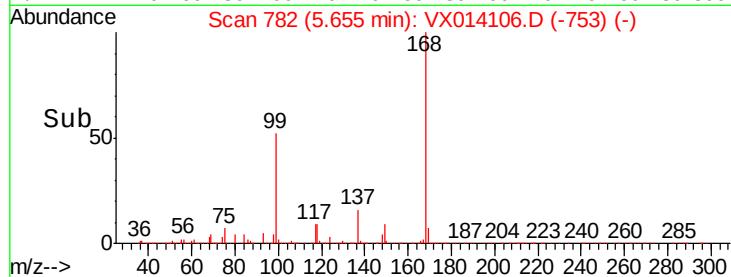
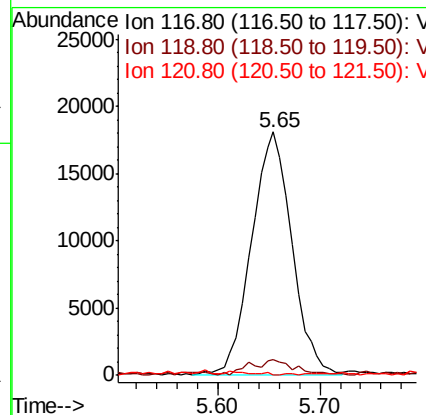
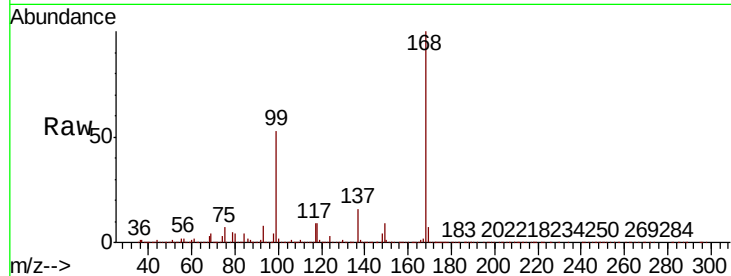




#38
Carbon Tetrachloride
Concen: 6.896 ug/l
RT: 5.65 min Scan# 782
Delta R.T. -0.12 min
Lab File: VX014106.D
Acq: 18 Dec 2019 18:54

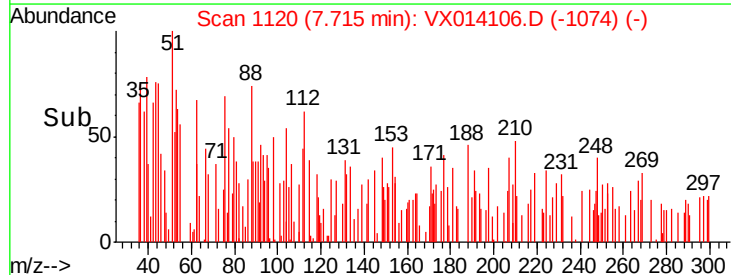
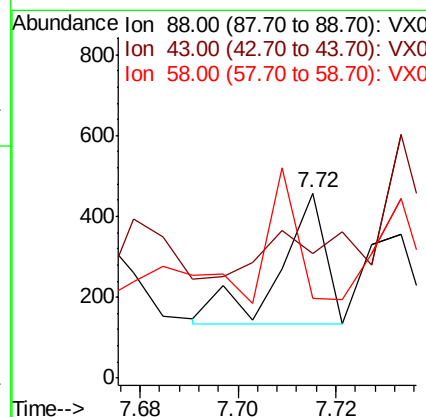
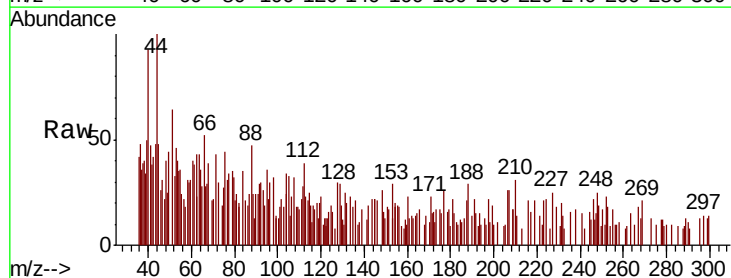
Instrument :
MSVOA_X
ClientSampleID :
MW-3

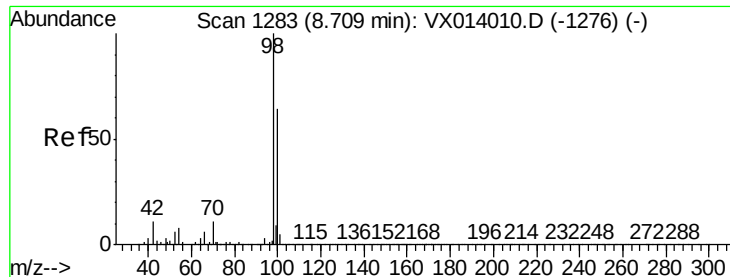
Tot Ion: 117 Resp: 49935
Ion Ratio Lower Upper
117 100
119 6.3 76.2 114.4#
121 0.2 23.6 35.4#



#49
1,4-Dioxane
Concen: 1.416 ug/l
RT: 7.72 min Scan# 1120
Delta R.T. -0.02 min
Lab File: VX014106.D
Acq: 18 Dec 2019 18:54

Tgt Ion: 88 Resp: 205
Ion Ratio Lower Upper
88 100
43 132.2 26.5 39.7#
58 62.9 56.8 85.2

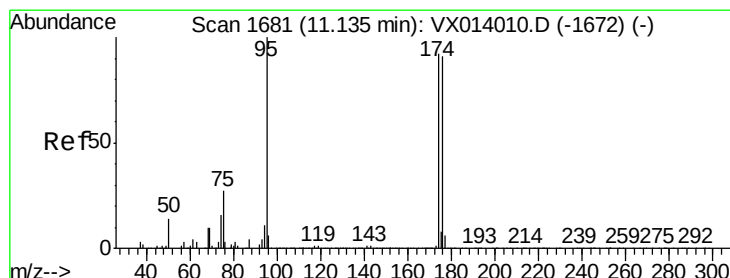
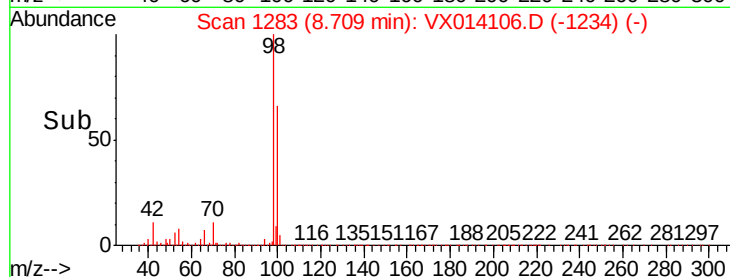
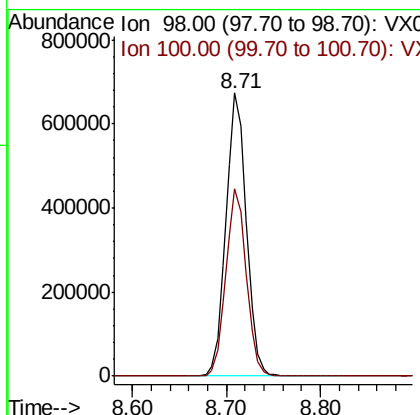
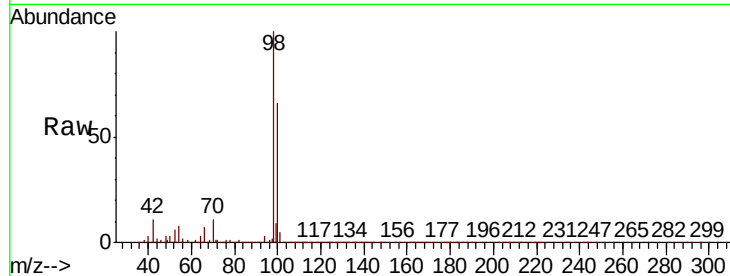




#50
Toluene-d8
Concen: 49.450 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX014106.D
Acq: 18 Dec 2019 18:54

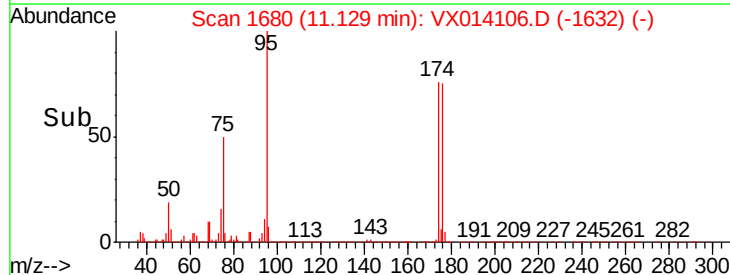
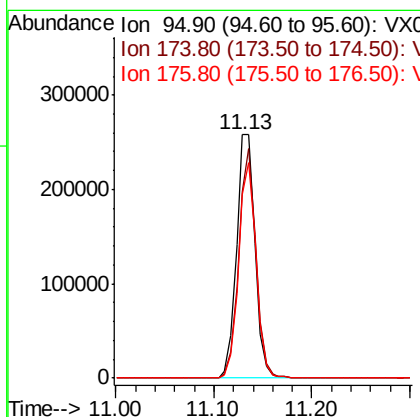
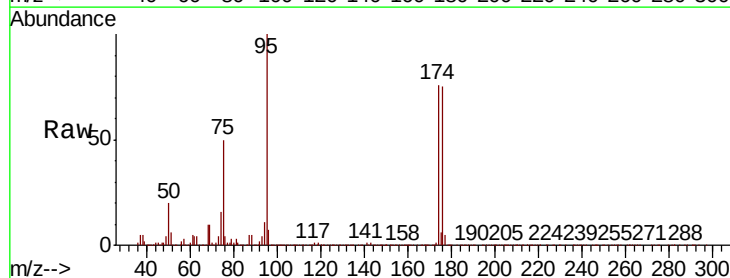
Instrument :
MSVOA_X
ClientSampleId :
MW-3

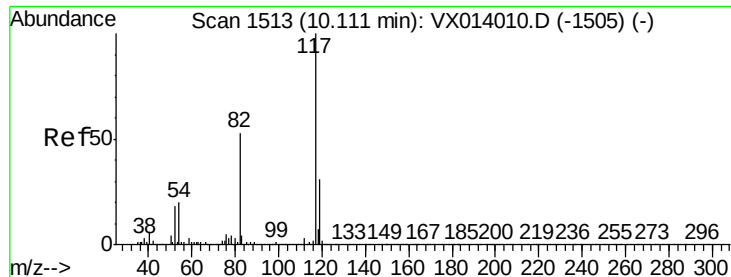
Tot Ion: 98 Resp: 1013780
Ion Ratio Lower Upper
98 100
100 66.0 52.9 79.3



#62
4-Bromofluorobenzene
Concen: 45.073 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.01 min
Lab File: VX014106.D
Acq: 18 Dec 2019 18:54

Tgt Ion: 95 Resp: 337780
Ion Ratio Lower Upper
95 100
174 87.6 0.0 175.8
176 83.7 0.0 173.0

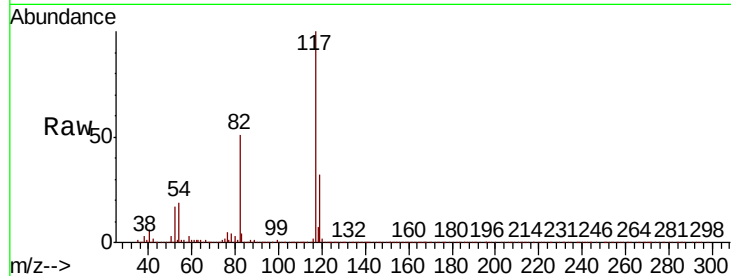




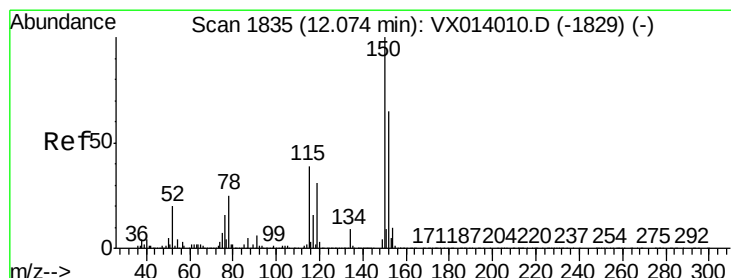
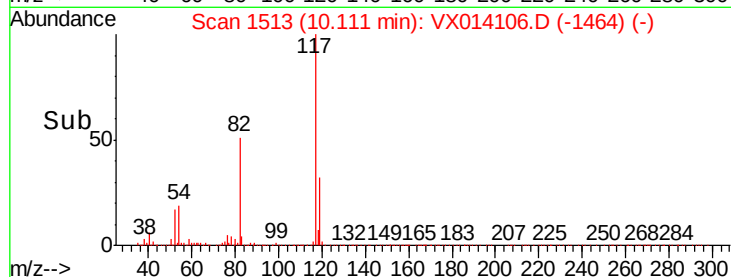
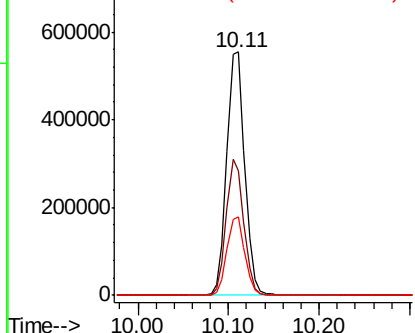
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX014106.D
Acq: 18 Dec 2019 18:54

Instrument :
MSVOA_X
ClientSampleId :
MW-3

Tot Ion:117 Resp: 766824
Ion Ratio Lower Upper
117 100
82 51.2 42.2 63.4
119 32.4 25.1 37.7

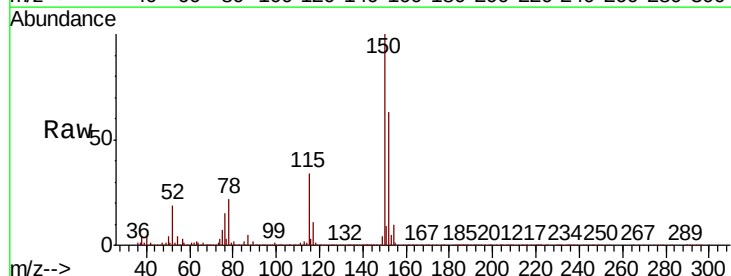


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

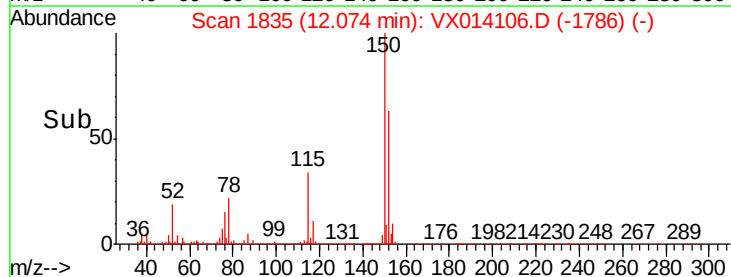
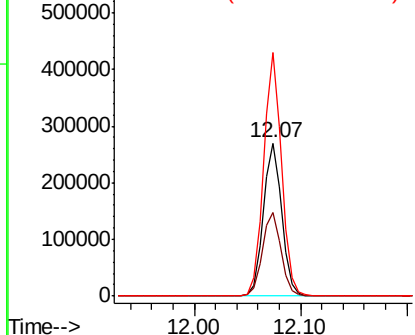


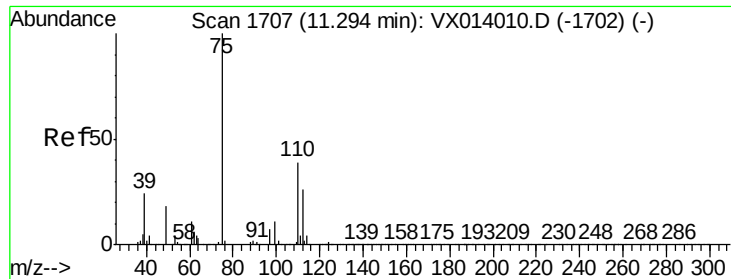
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX014106.D
Acq: 18 Dec 2019 18:54

Tgt Ion:152 Resp: 326529
Ion Ratio Lower Upper
152 100
115 55.4 38.3 114.9
150 155.2 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

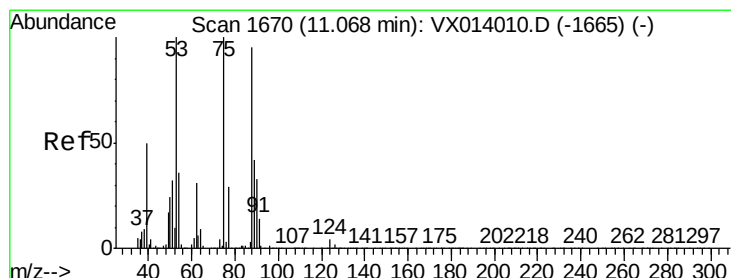
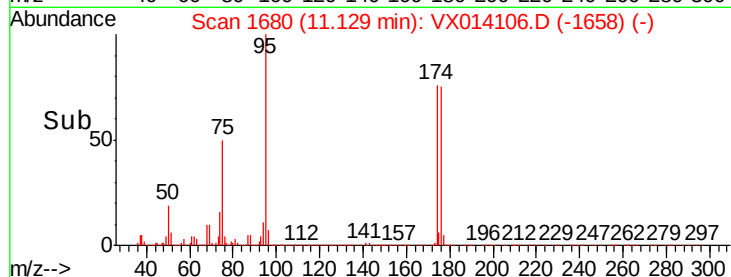
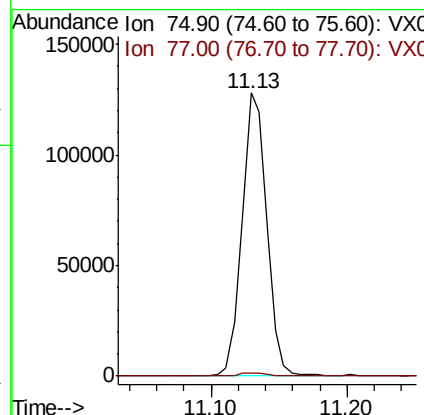
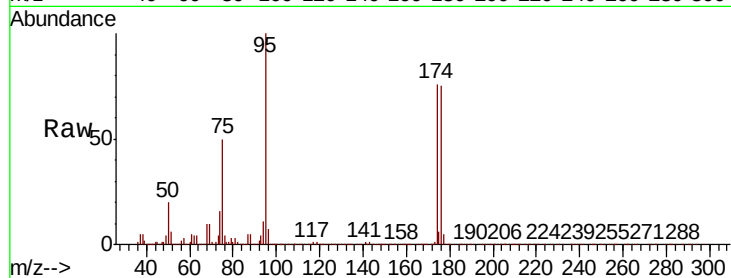




#76
 1,2,3-Trichloropropane
 Concen: 22.697 ug/l
 RT: 11.13 min Scan# 1680
 Delta R.T. -0.16 min
 Lab File: VX014106.D
 Acq: 18 Dec 2019 18:54

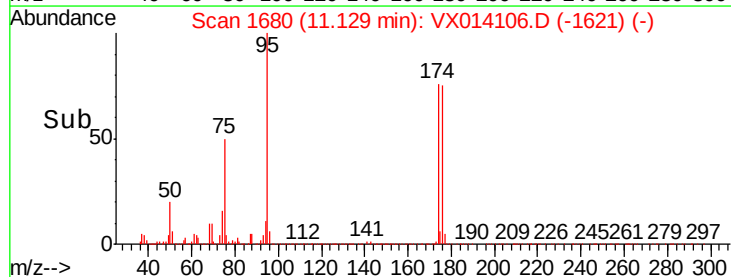
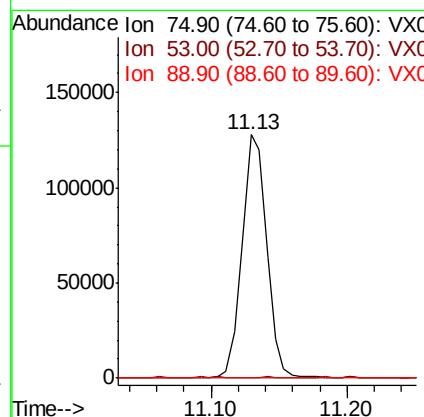
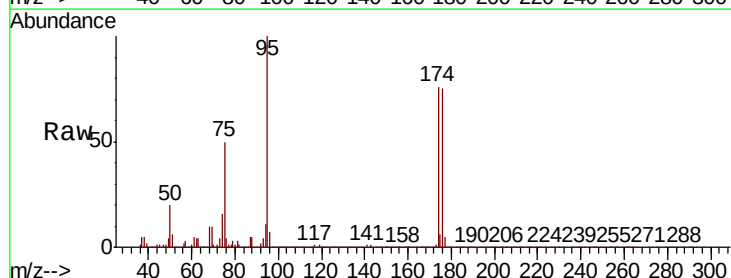
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-3

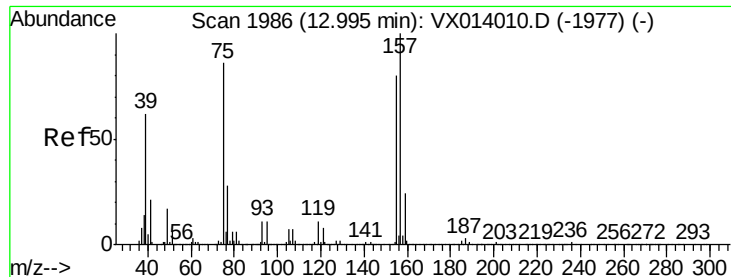
Tot Ion: 75 Resp: 160896
 Ion Ratio Lower Upper
 75 100
 77 1.3 19.3 57.8#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 64.063 ug/l
 RT: 11.13 min Scan# 1680
 Delta R.T. 0.06 min
 Lab File: VX014106.D
 Acq: 18 Dec 2019 18:54

Tgt Ion: 75 Resp: 160896
 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: 0.213 ug/l

RT: 12.99 min Scan# 1985

Delta R.T. -0.01 min

Lab File: VX014106.D

Acq: 18 Dec 2019 18:54

Instrument :

MSVOA_X

ClientSampleId :

MW-3

Tot Ion: 75 Resp: 375

Ion Ratio Lower Upper

75 100

155 33.6 46.9 140.6#

157 47.5 60.8 182.4#

