

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX122319\
 Data File : VX014212.D
 Acq On : 23 Dec 2019 19:06
 Operator : JC/SP
 Sample : K6387-03
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-3

Quant Time: Dec 24 01:33:11 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	558083	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	857751	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	775631	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	345016	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	310461	49.08	ug/l	0.00
Spiked Amount			Recovery	=	98.16%	
35) Dibromofluoromethane	5.49	113	256276	49.15	ug/l	0.00
Spiked Amount			Recovery	=	98.30%	
50) Toluene-d8	8.71	98	1019593	50.23	ug/l	0.00
Spiked Amount			Recovery	=	100.46%	
62) 4-Bromofluorobenzene	11.13	95	344588	46.44	ug/l	0.00
Spiked Amount			Recovery	=	92.88%	

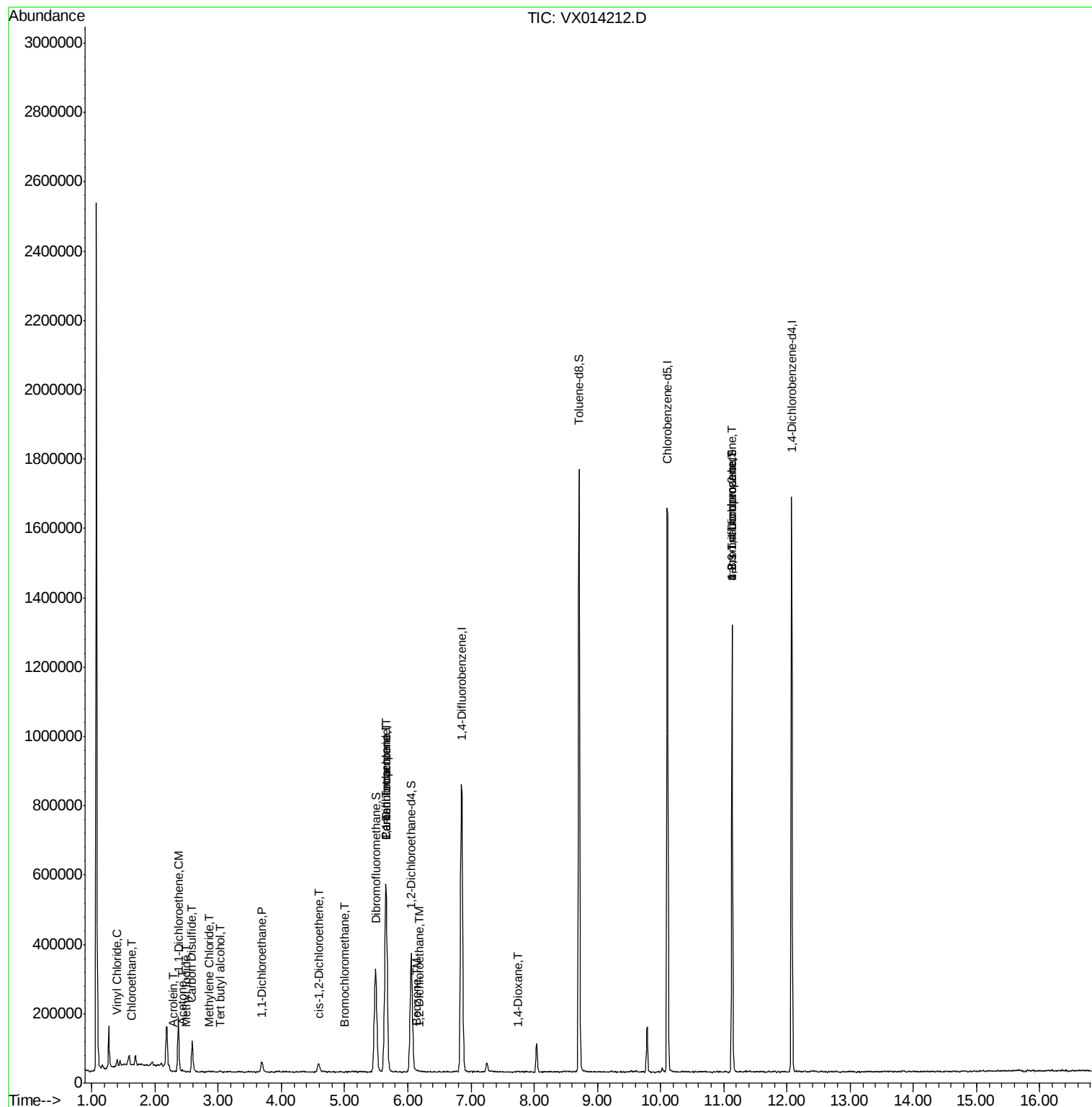
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.40	62	15316	2.166	ug/l	98
6) Chloroethane	1.63	64	1442	0.330	ug/l #	50
10) Methyl Iodide	2.50	142	443	2.681	ug/l #	67
11) Tert butyl alcohol	3.03	59	2283	1.670	ug/l	99
12) 1,1-Dichloroethene	2.37	96	53719	10.007	ug/l	99
13) Acrolein	2.28	56	373	0.477	ug/l #	46
16) Acetone	2.43	43	7607	1.852	ug/l	98
17) Carbon Disulfide	2.58	76	738	0.799	ug/l #	1
20) Methylene Chloride	2.86	84	1661	0.257	ug/l #	48
24) 1,1-Dichloroethane	3.69	63	35199	3.312	ug/l	99
27) cis-1,2-Dichloroethene	4.59	96	15628	2.336	ug/l	91
28) Bromochloromethane	5.00	49	229	0.509	ug/l #	53
36) 1,1-Dichloropropene	5.65	75	37657	4.785	ug/l #	53
38) Carbon Tetrachloride	5.65	117	48859	6.815	ug/l #	18
40) Benzene	6.14	78	5988	0.247	ug/l	96
42) 1,2-Dichloroethane	6.19	62	2983	0.363	ug/l #	72
49) 1,4-Dioxane	7.75	88	2467	17.212	ug/l #	82
76) 1,2,3-Trichloropropane	11.13	75	167828	22.406	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	167828	63.242	ug/l #	12

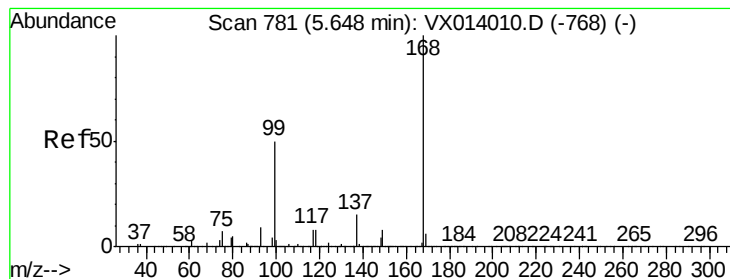
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX014212.D

Acq: 23 Dec 2019 19:06

Instrument :

MSVOA_X

ClientSampleId :

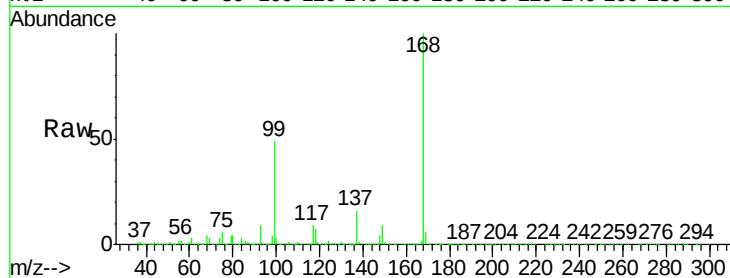
MW-3

Tgt Ion:168 Resp: 558083

Ion Ratio Lower Upper

168 100

99 49.3 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

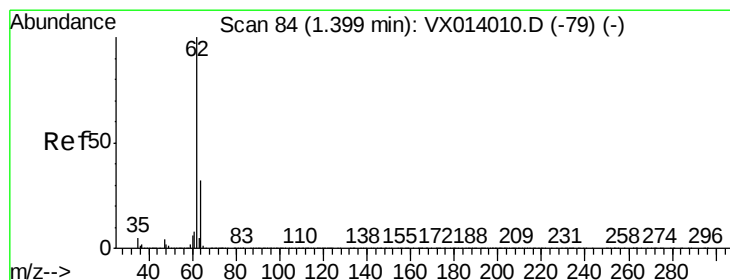
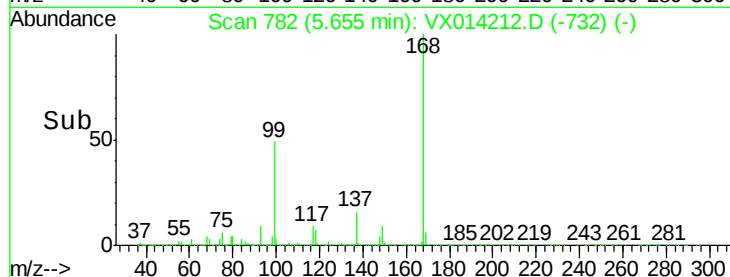
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50000

0

Time-->

5.50 5.60 5.70 5.80



#4

Vinyl Chloride

Concen: 2.166 ug/l

RT: 1.40 min Scan# 84

Delta R.T. 0.00 min

Lab File: VX014212.D

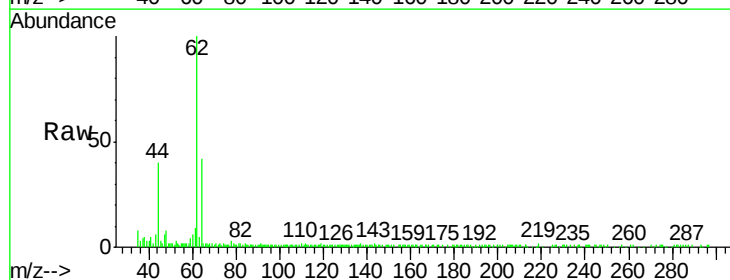
Acq: 23 Dec 2019 19:06

Tgt Ion: 62 Resp: 15316

Ion Ratio Lower Upper

62 100

64 31.0 25.7 38.5



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.40

15000

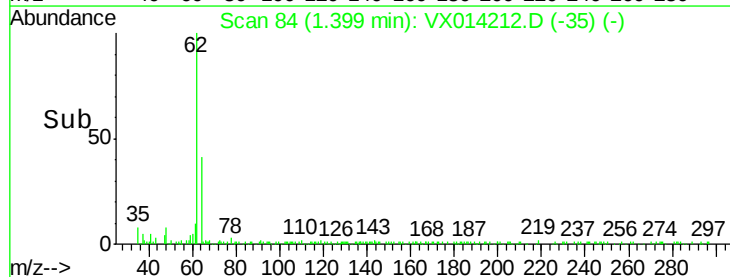
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5000

0

Time-->

1.35 1.40 1.45





#6

Chloroethane

Concen: 0.330 ug/l

RT: 1.63 min Scan# 122

Delta R.T. -0.07 min

Lab File: VX014212.D

Acq: 23 Dec 2019 19:06

Instrument :

MSVOA_X

ClientSampled :

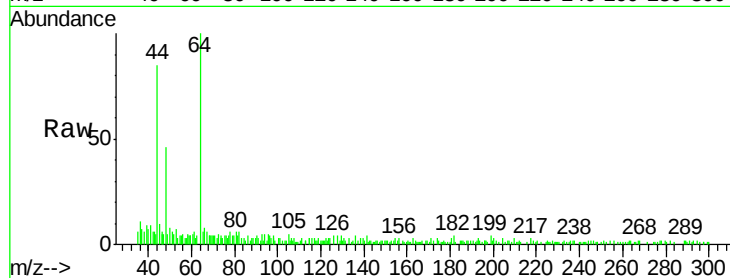
MW-3

Tgt Ion: 64 Resp: 1442

Ion Ratio Lower Upper

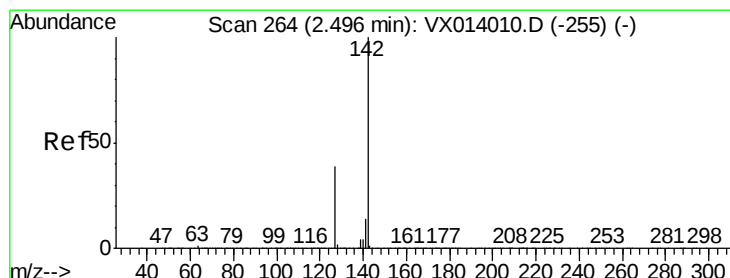
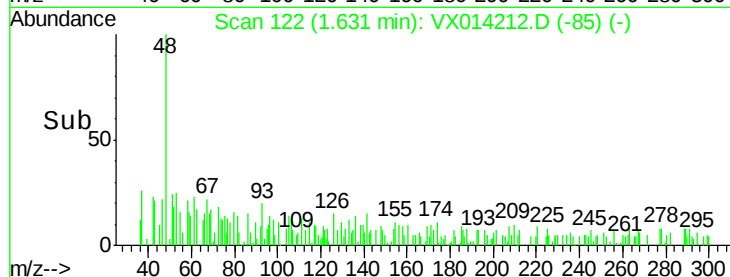
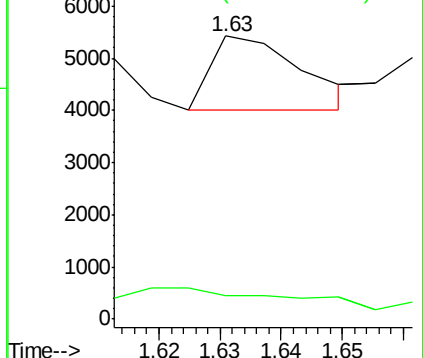
64 100

66 2.5 23.4 35.2#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 2.681 ug/l

RT: 2.50 min Scan# 264

Delta R.T. 0.00 min

Lab File: VX014212.D

Acq: 23 Dec 2019 19:06

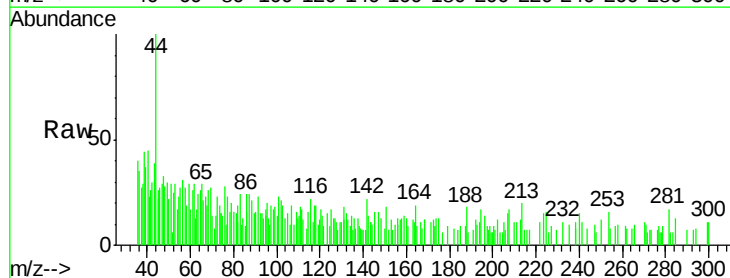
Tgt Ion: 142 Resp: 443

Ion Ratio Lower Upper

142 100

127 52.8 31.6 47.4#

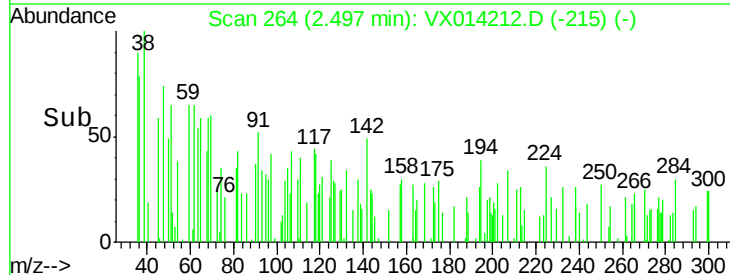
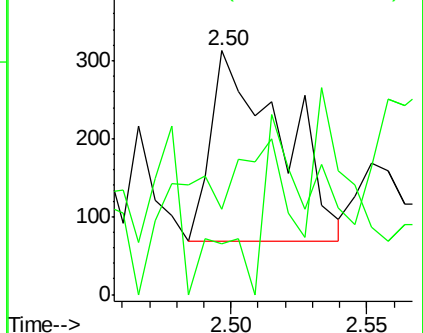
141 41.3 11.6 17.4#

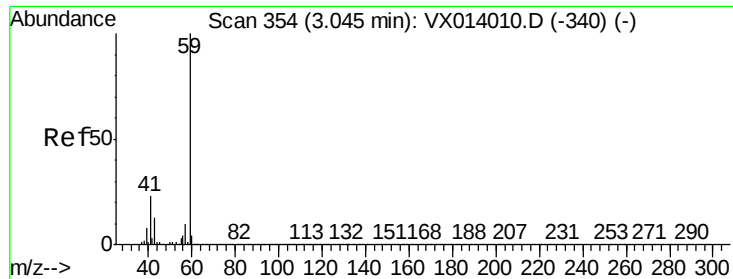


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



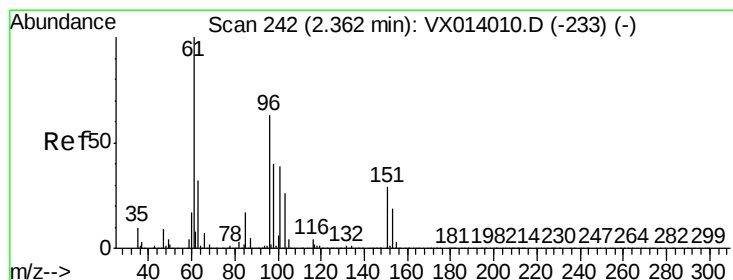
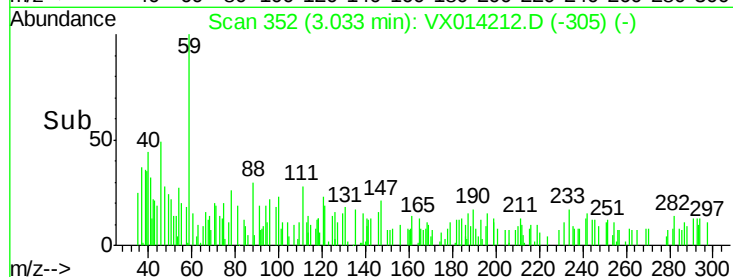
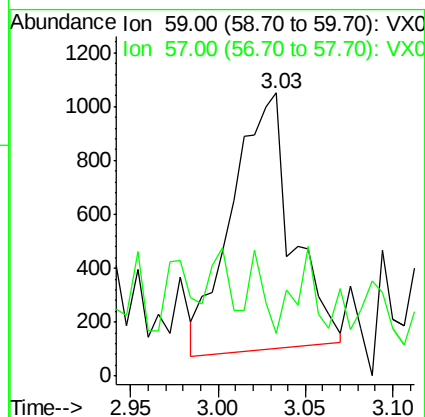
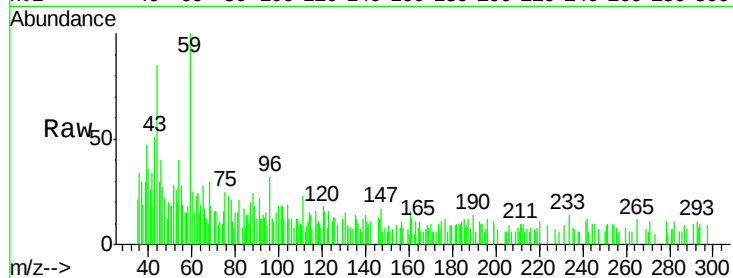


#11

Tert butyl alcohol
Concen: 1.670 ug/l
RT: 3.03 min Scan# 352
Delta R.T. -0.01 min
Lab File: VX014212.D
Acq: 23 Dec 2019 19:06

Instrument :
MSVOA_X
ClientSampled :
MW-3

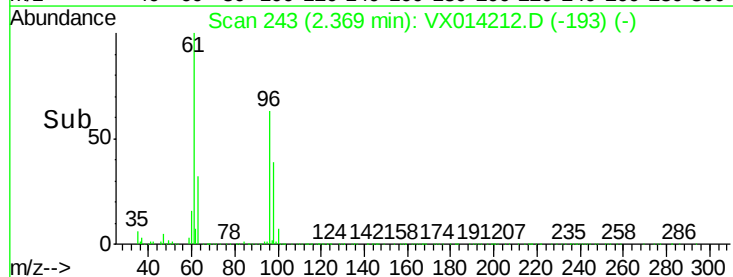
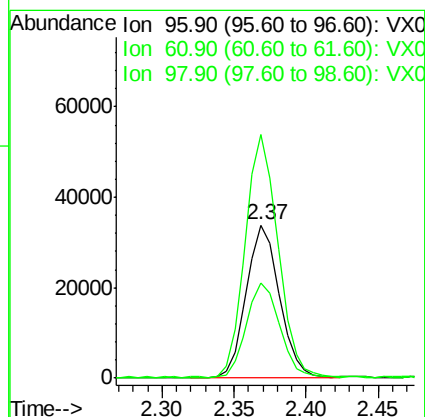
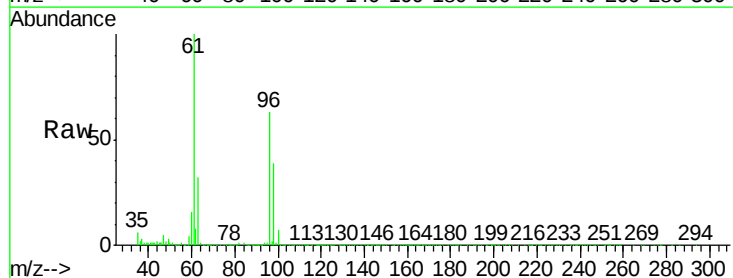
Tgt Ion: 59 Resp: 2283
Ion Ratio Lower Upper
59 100
57 10.7 8.4 12.6

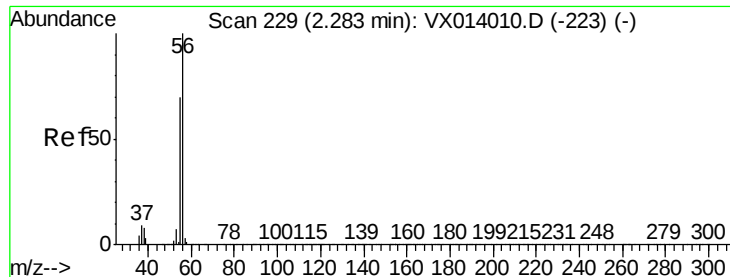


#12

1,1-Dichloroethene
Concen: 10.007 ug/l
RT: 2.37 min Scan# 243
Delta R.T. 0.01 min
Lab File: VX014212.D
Acq: 23 Dec 2019 19:06

Tgt Ion: 96 Resp: 53719
Ion Ratio Lower Upper
96 100
61 159.5 127.9 191.9
98 62.2 50.5 75.7

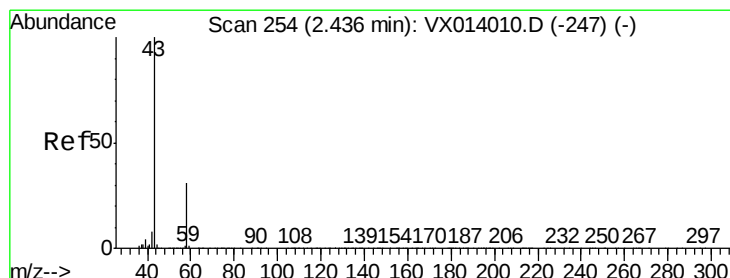
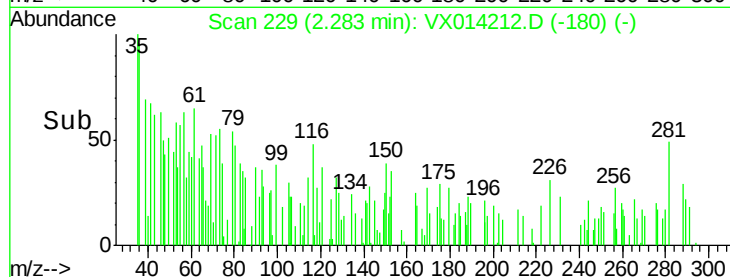
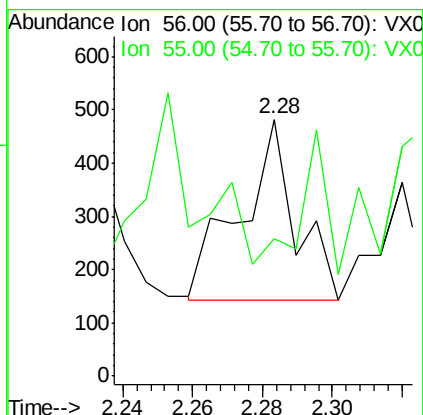
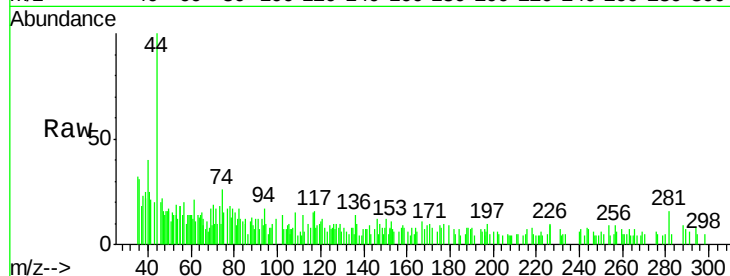




#13
Acrolein
Concen: 0.477 ug/l
RT: 2.28 min Scan# 229
Delta R.T. 0.00 min
Lab File: VX014212.D
Acq: 23 Dec 2019 19:06

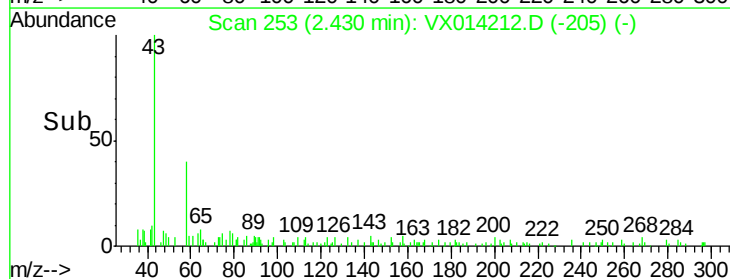
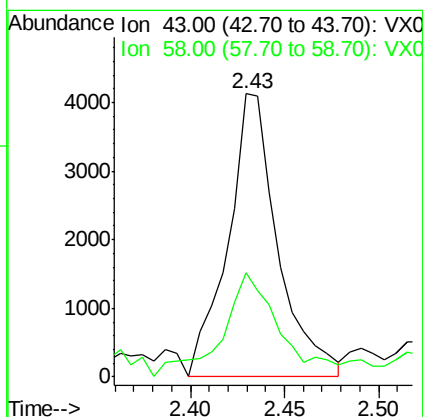
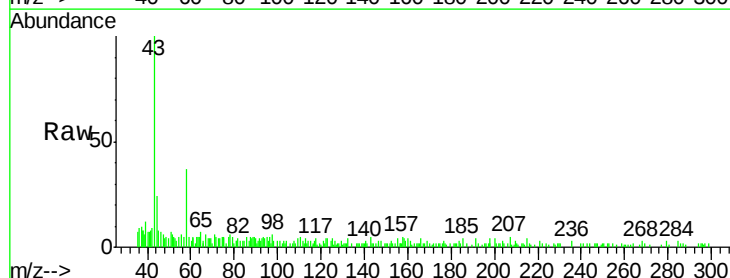
Instrument :
MSVOA_X
ClientSampled :
MW-3

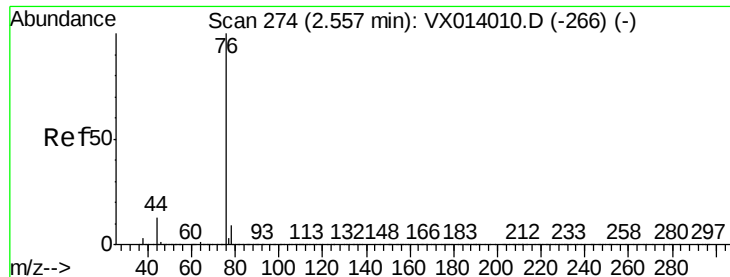
Tgt Ion: 56 Resp: 373
Ion Ratio Lower Upper
56 100
55 26.5 56.9 85.3#



#16
Acetone
Concen: 1.852 ug/l
RT: 2.43 min Scan# 253
Delta R.T. -0.01 min
Lab File: VX014212.D
Acq: 23 Dec 2019 19:06

Tgt Ion: 43 Resp: 7607
Ion Ratio Lower Upper
43 100
58 32.3 24.9 37.3





#17

Carbon Disulfide

Concen: 0.799 ug/l

RT: 2.58 min Scan# 277

Delta R.T. 0.02 min

Lab File: VX014212.D

Acq: 23 Dec 2019 19:06

Instrument :

MSVOA_X

ClientSampled :

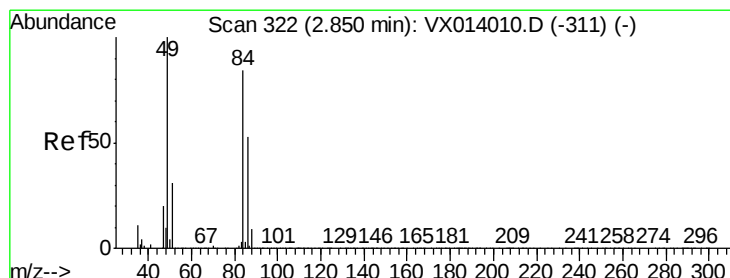
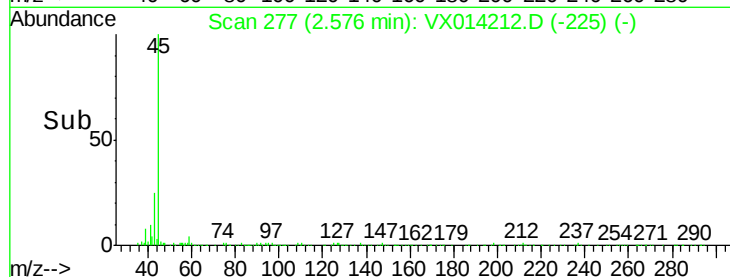
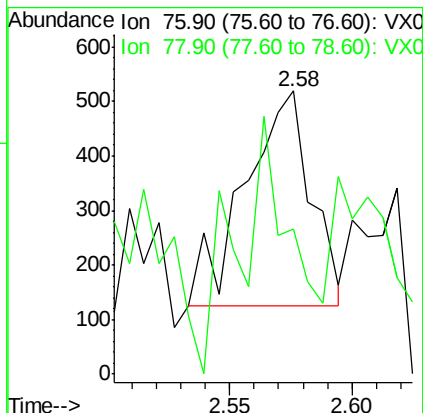
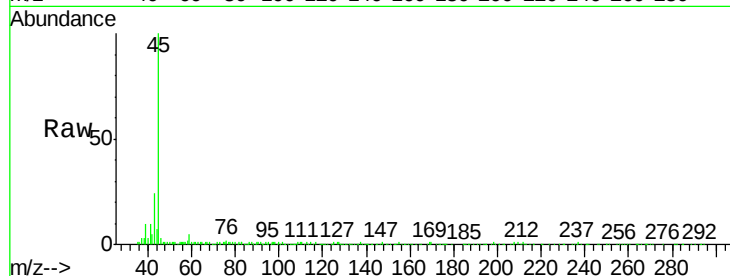
MW-3

Tgt Ion: 76 Resp: 738

Ion Ratio Lower Upper

76 100

78 45.2 7.2 10.8#



#20

Methylene Chloride

Concen: 0.257 ug/l

RT: 2.86 min Scan# 323

Delta R.T. 0.01 min

Lab File: VX014212.D

Acq: 23 Dec 2019 19:06

Tgt Ion: 84 Resp: 1661

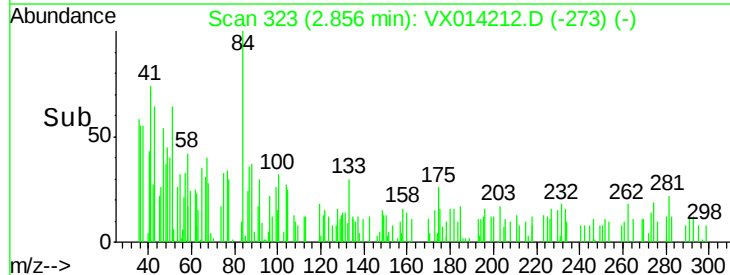
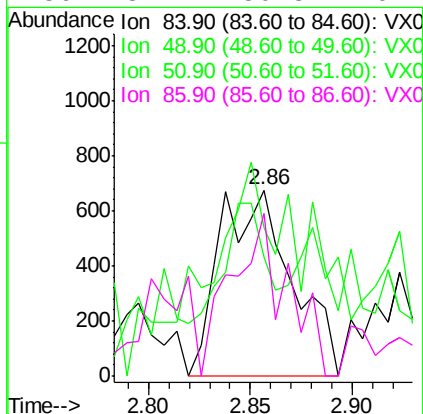
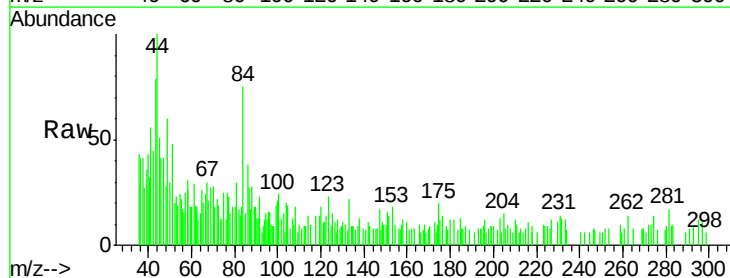
Ion Ratio Lower Upper

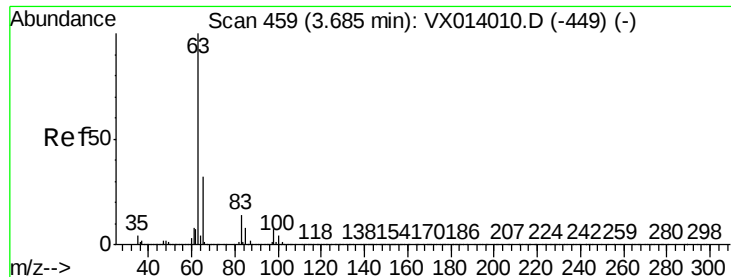
84 100

49 44.4 95.8 143.6#

51 14.2 29.8 44.8#

86 87.1 50.8 76.2#





#24

1,1-Dichloroethane

Concen: 3.312 ug/l

RT: 3.69 min Scan# 460

Delta R.T. 0.01 min

Lab File: VX014212.D

Acq: 23 Dec 2019 19:06

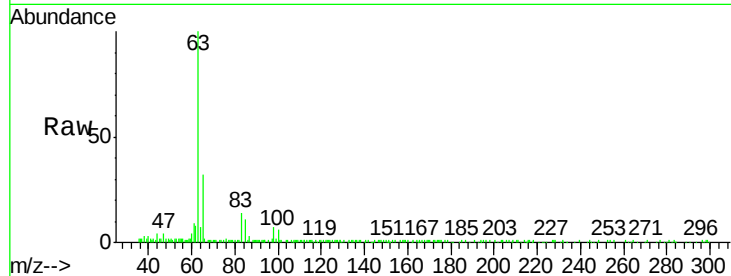
Instrument :

MSVOA_X

ClientSampleId :

MW-3

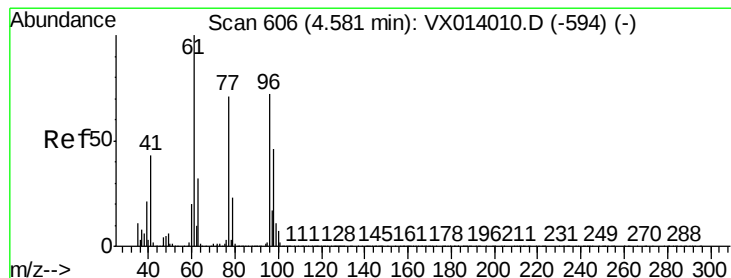
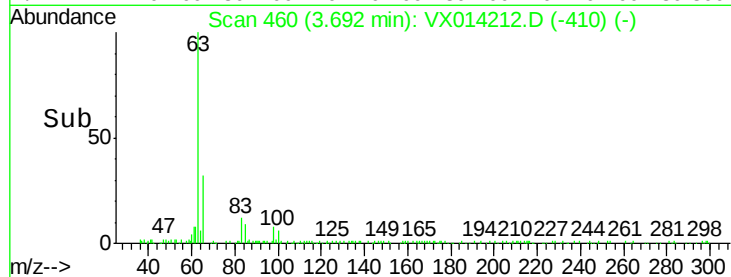
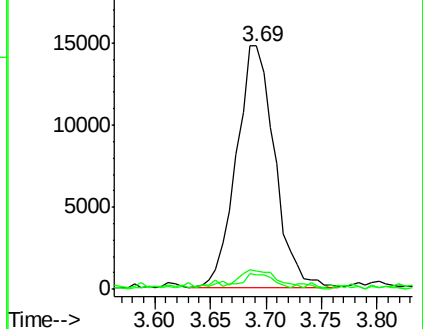
Tgt Ion:	63	Resp:	35199
Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.6	10.8
100	4.1	2.3	6.8



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0



#27

cis-1,2-Dichloroethene

Concen: 2.336 ug/l

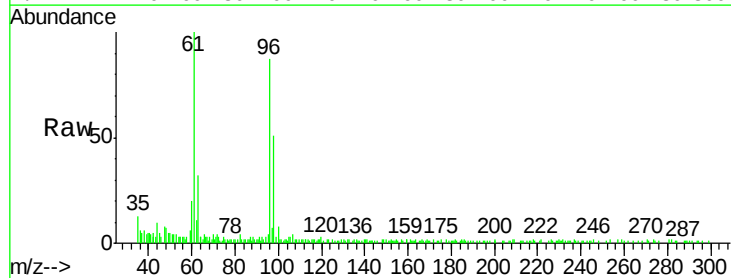
RT: 4.59 min Scan# 607

Delta R.T. 0.01 min

Lab File: VX014212.D

Acq: 23 Dec 2019 19:06

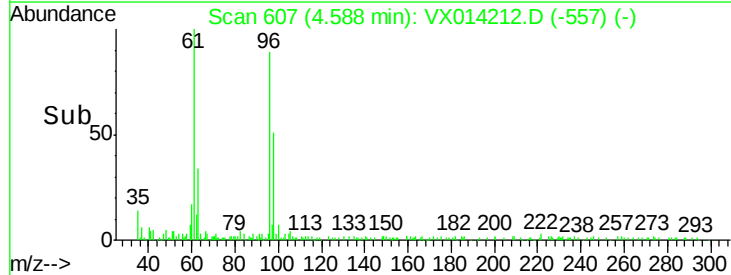
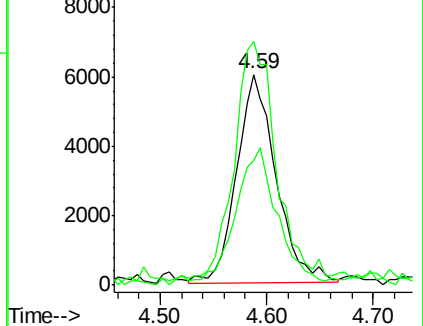
Tgt Ion:	96	Resp:	15628
Ion	Ratio	Lower	Upper
96	100		
61	130.1	0.0	288.4
98	68.7	0.0	129.6

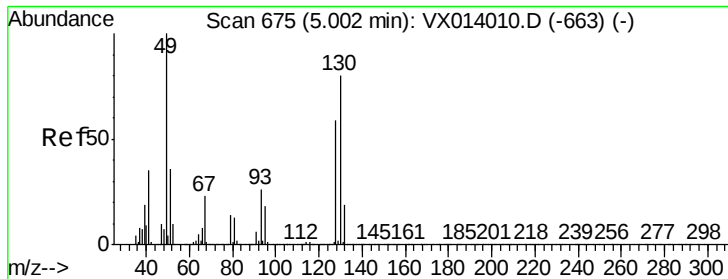


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#28

Bromochloromethane

Concen: 0.509 ug/l

RT: 5.00 min Scan# 675

Delta R.T. 0.00 min

Lab File: VX014212.D

Acq: 23 Dec 2019 19:06

Instrument :

MSVOA_X

ClientSampleId :

MW-3

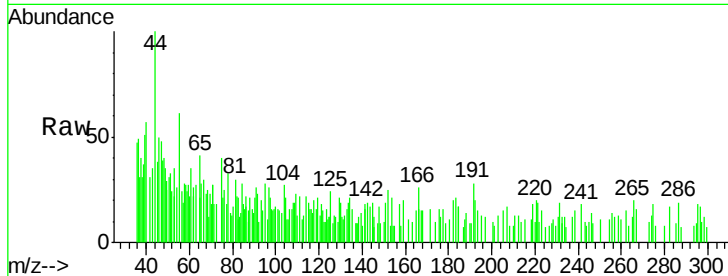
Tgt Ion: 49 Resp: 229

Ion Ratio Lower Upper

49 100

129 0.0 0.0 5.0

130 123.6 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

5.00

600

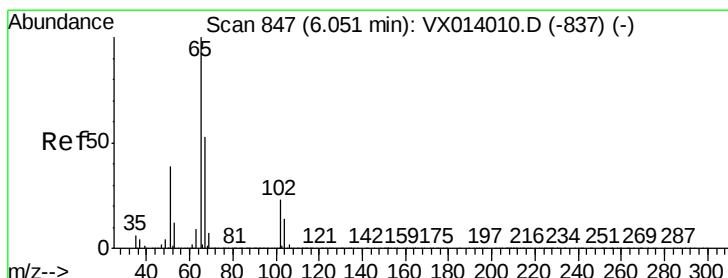
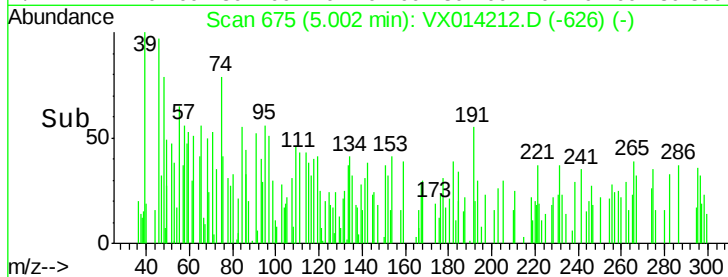
400

200

0

5.00 5.00 5.00 5.01

Time-->



#33

1,2-Dichloroethane-d4

Concen: 49.084 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX014212.D

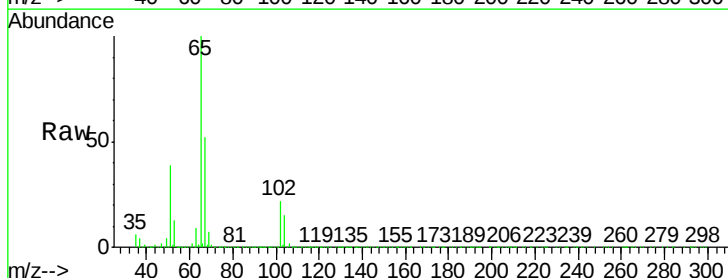
Acq: 23 Dec 2019 19:06

Tgt Ion: 65 Resp: 310461

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

6.05

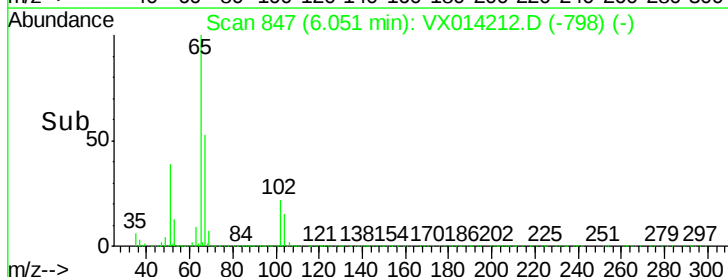
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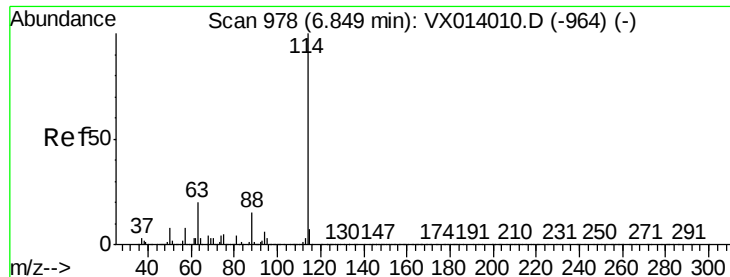
50000

0

5.90 6.00 6.10 6.20

Time-->





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX014212.D

Acq: 23 Dec 2019 19:06

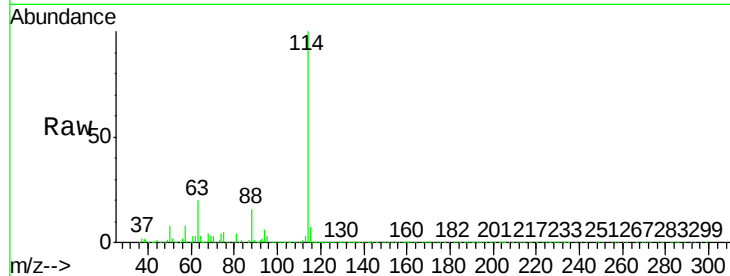
Instrument :

MSVOA_X

ClientSampleId :

MW-3

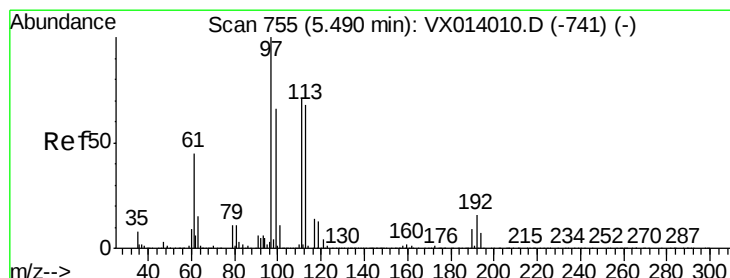
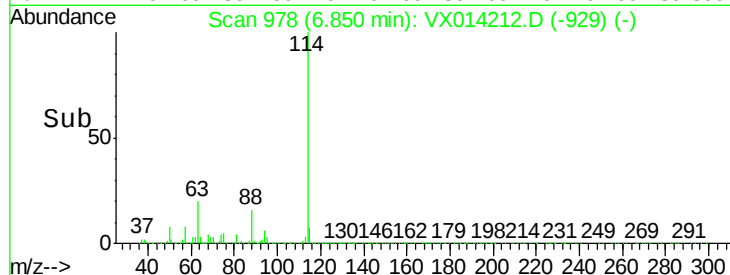
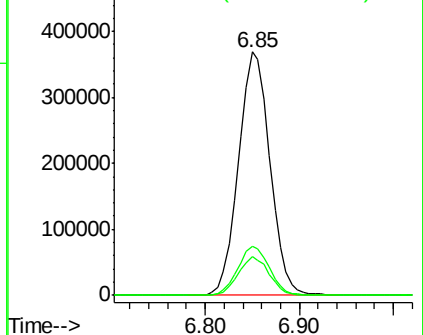
Tgt Ion:	114	Resp:	857751
Ion	Ratio	Lower	Upper
114	100		
63	19.9	0.0	40.8
88	15.9	0.0	30.4



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: 49.150 ug/l

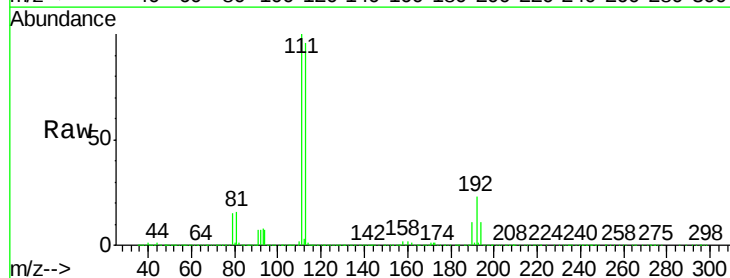
RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014212.D

Acq: 23 Dec 2019 19:06

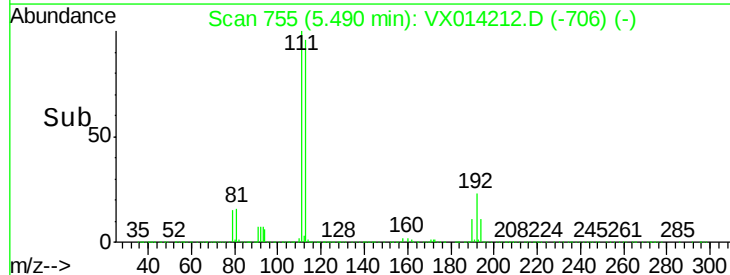
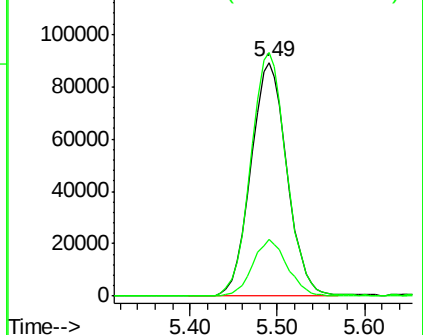
Tgt Ion:	113	Resp:	256276
Ion	Ratio	Lower	Upper
113	100		
111	103.2	82.0	123.0
192	23.5	19.3	28.9

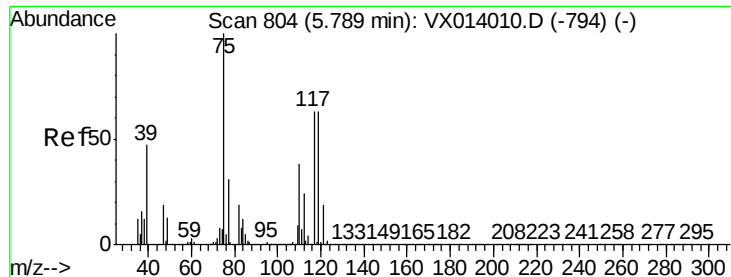


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.785 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX014212.D

Acq: 23 Dec 2019 19:06

Instrument :

MSVOA_X

ClientSampled :

MW-3

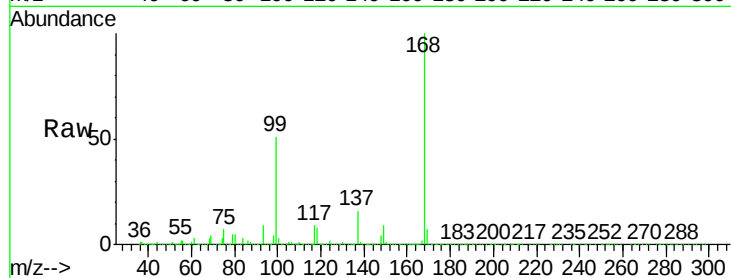
Tgt Ion: 75 Resp: 37657

Ion Ratio Lower Upper

75 100

110 11.8 18.3 54.9#

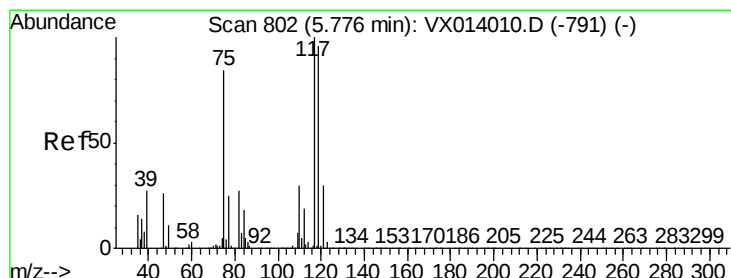
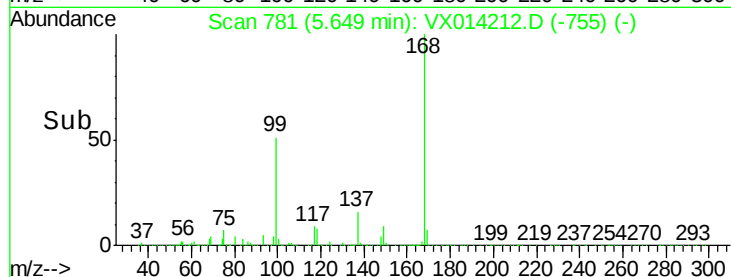
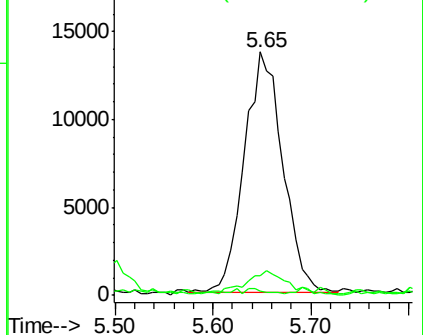
77 1.5 24.8 37.2#



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: 6.815 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX014212.D

Acq: 23 Dec 2019 19:06

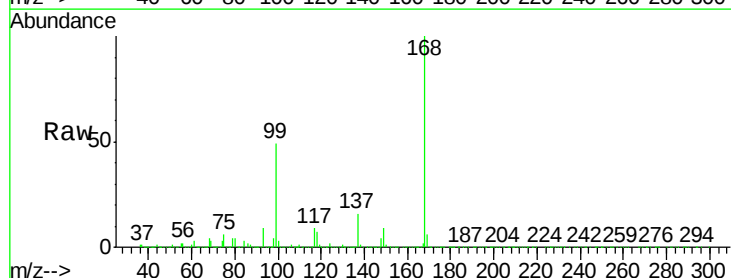
Tgt Ion: 117 Resp: 48859

Ion Ratio Lower Upper

117 100

119 6.8 76.2 114.4#

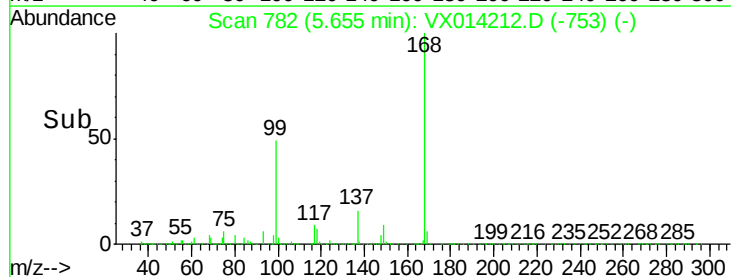
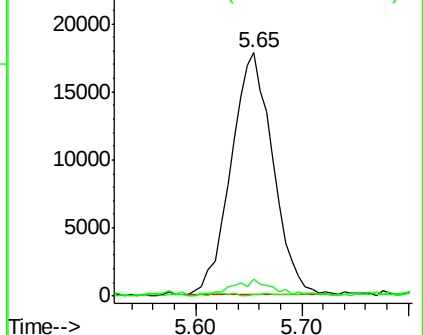
121 0.2 23.6 35.4#

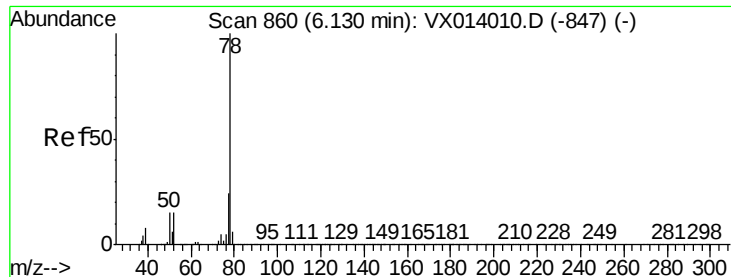


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#40

Benzene

Concen: 0.247 ug/l

RT: 6.14 min Scan# 861

Delta R.T. 0.01 min

Lab File: VX014212.D

Acq: 23 Dec 2019 19:06

Instrument :

MSVOA_X

ClientSampled :

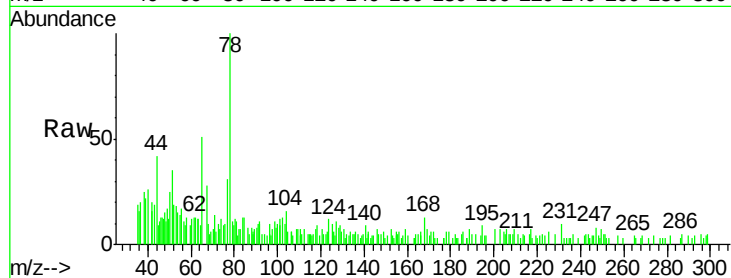
MW-3

Tgt Ion: 78 Resp: 5988

Ion Ratio Lower Upper

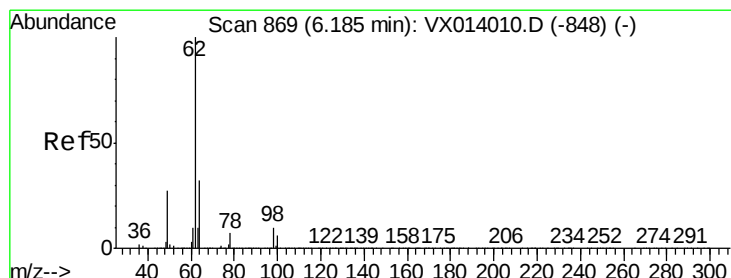
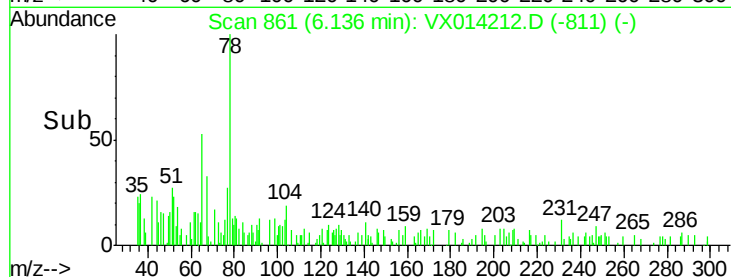
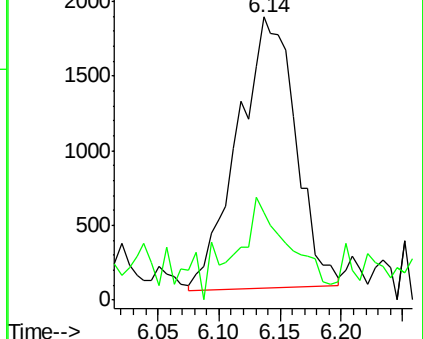
78 100

77 25.6 18.8 28.2



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0



#42

1,2-Dichloroethane

Concen: 0.363 ug/l

RT: 6.19 min Scan# 870

Delta R.T. 0.01 min

Lab File: VX014212.D

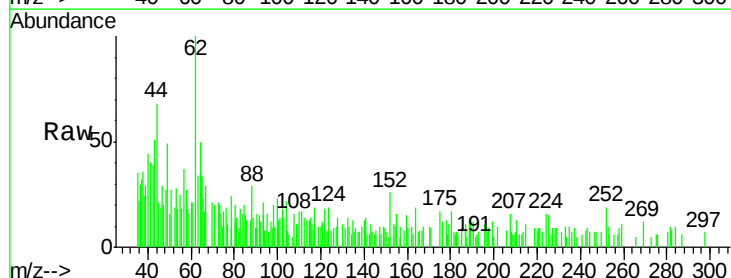
Acq: 23 Dec 2019 19:06

Tgt Ion: 62 Resp: 2983

Ion Ratio Lower Upper

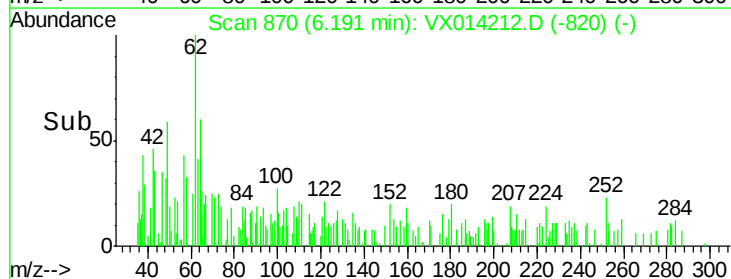
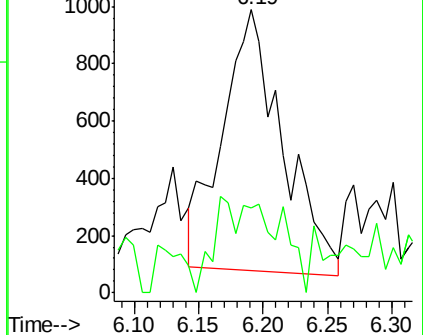
62 100

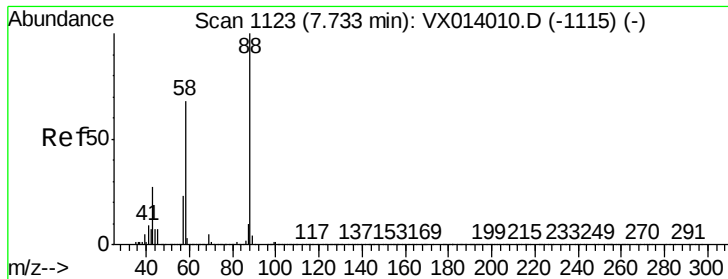
98 0.0 0.0 21.0



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#49

1,4-Dioxane

Concen: 17.212 ug/l

RT: 7.75 min Scan# 1125

Delta R.T. 0.01 min

Lab File: VX014212.D

Acq: 23 Dec 2019 19:06

Instrument :

MSVOA_X

ClientSampled :

MW-3

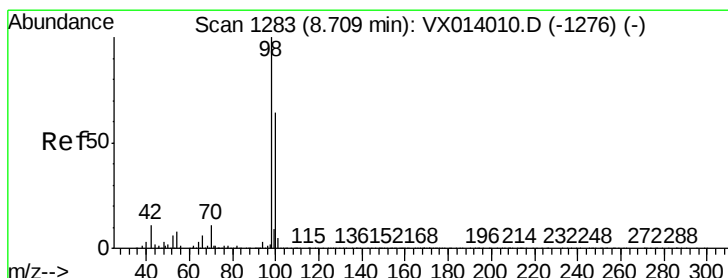
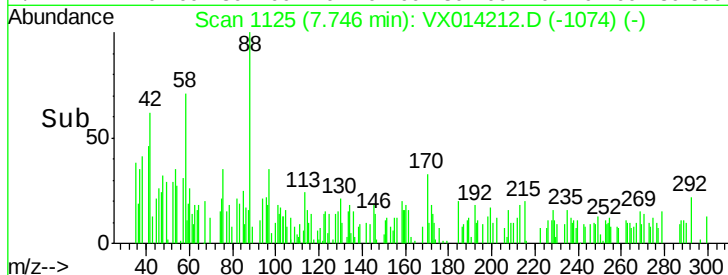
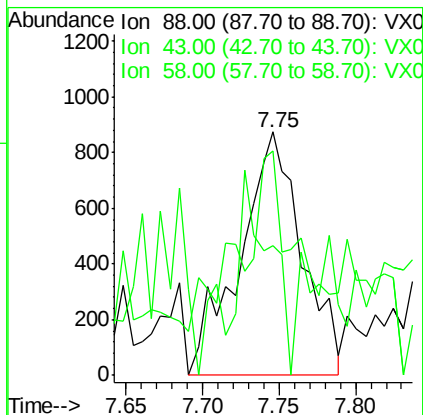
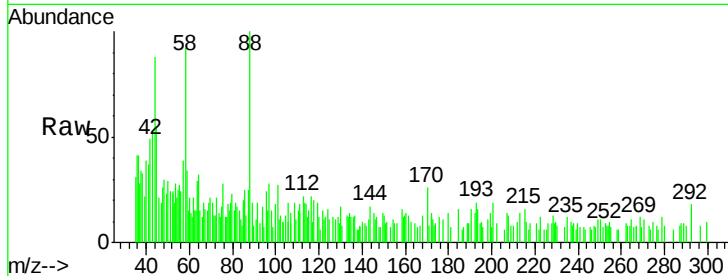
Tgt Ion: 88 Resp: 2467

Ion Ratio Lower Upper

88 100

43 52.7 26.5 39.7#

58 79.9 56.8 85.2



#50

Toluene-d8

Concen: 50.226 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014212.D

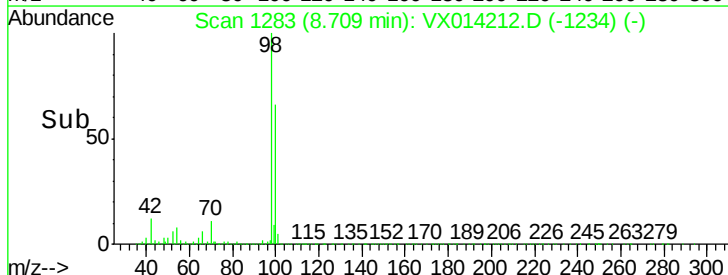
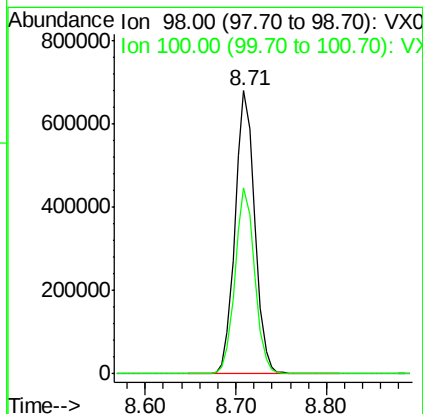
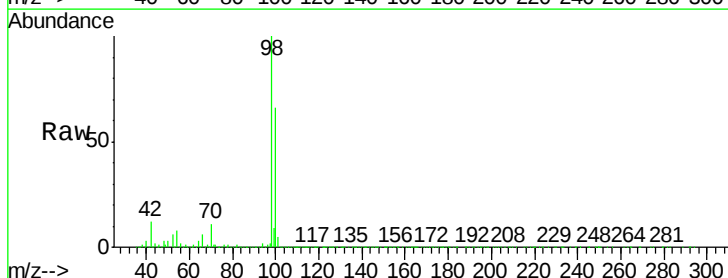
Acq: 23 Dec 2019 19:06

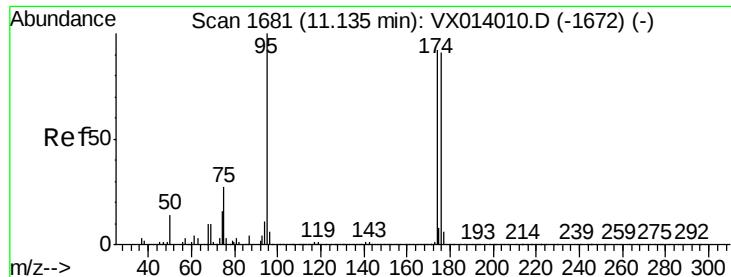
Tgt Ion: 98 Resp: 1019593

Ion Ratio Lower Upper

98 100

100 65.3 52.9 79.3





#62

4-Bromofluorobenzene

Concen: 46.437 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.01 min

Lab File: VX014212.D

Acq: 23 Dec 2019 19:06

Instrument :

MSVOA_X

ClientSampleId :

MW-3

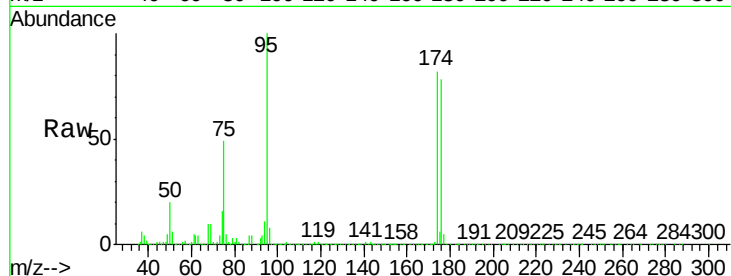
Tgt Ion: 95 Resp: 344588

Ion Ratio Lower Upper

95 100

174 89.7 0.0 175.8

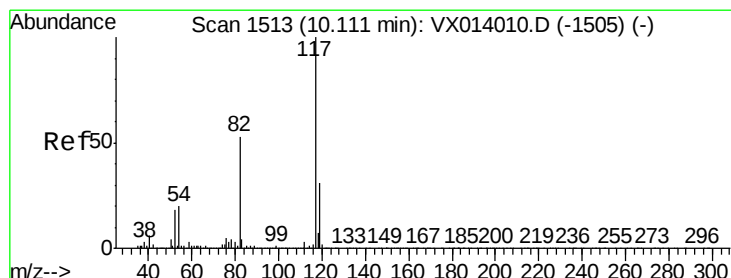
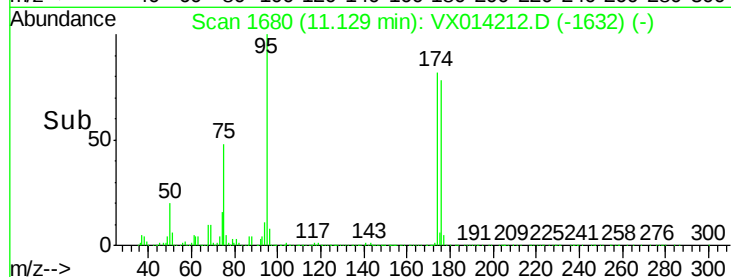
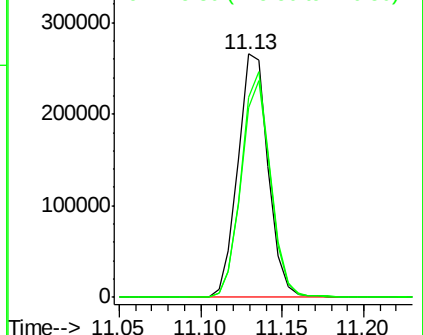
176 86.9 0.0 173.0



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: VX014212.D

Acq: 23 Dec 2019 19:06

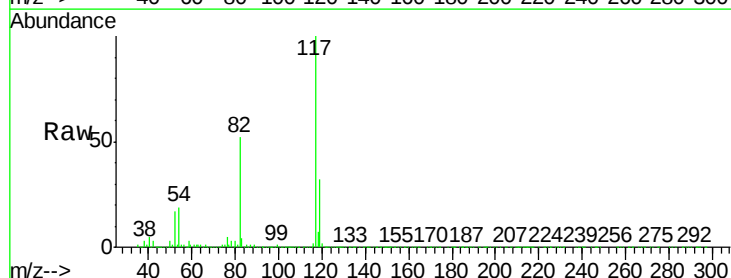
Tgt Ion: 117 Resp: 775631

Ion Ratio Lower Upper

117 100

82 51.9 42.2 63.4

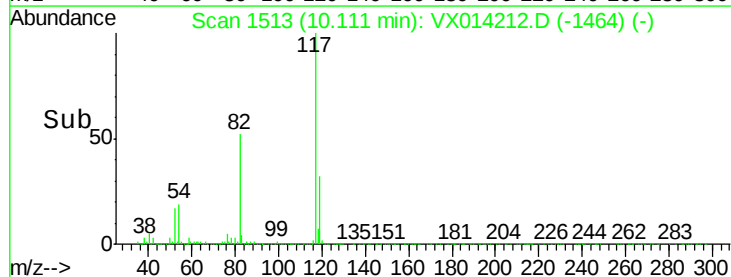
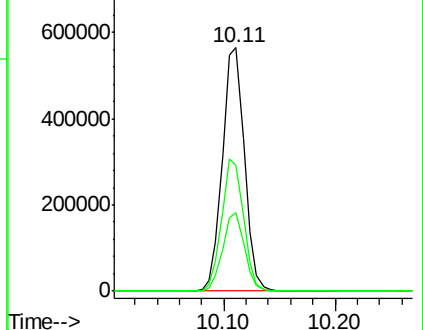
119 32.4 25.1 37.7

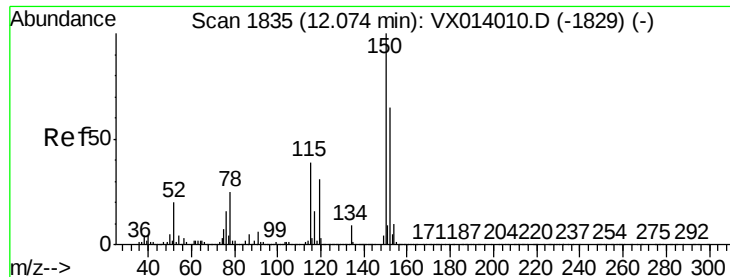


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



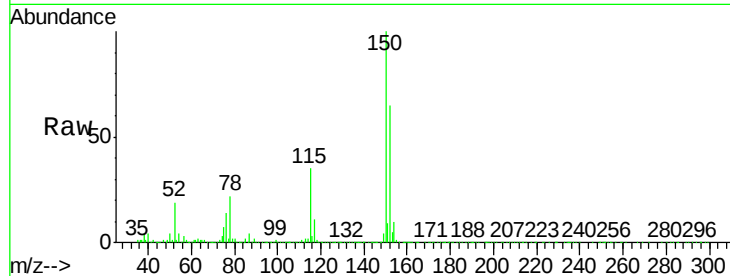


#72

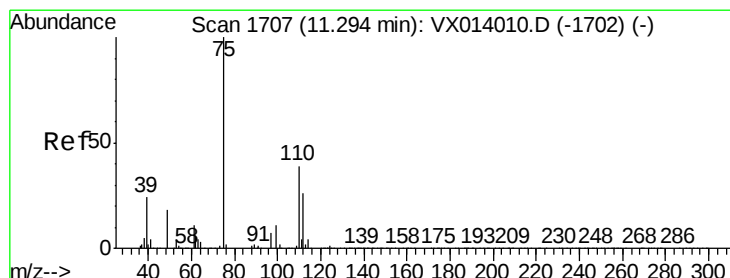
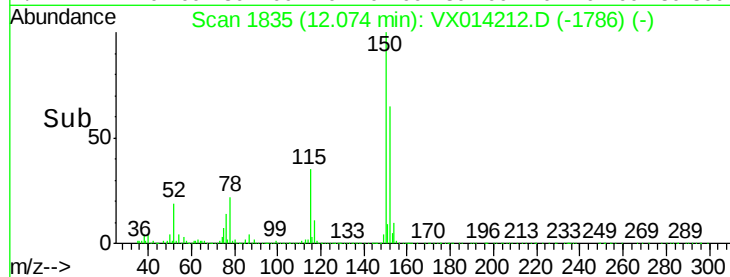
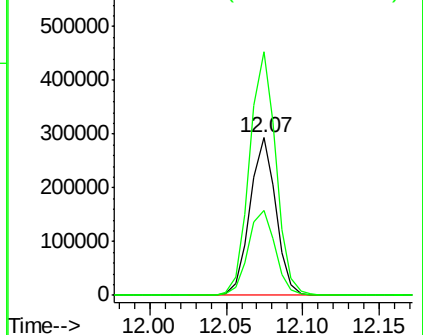
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX014212.D
Acq: 23 Dec 2019 19:06

Instrument :
MSVOA_X
ClientSampled :
MW-3

Tgt Ion: 152 Resp: 345016
Ion Ratio Lower Upper
152 100
115 56.3 38.3 114.9
150 157.7 0.0 345.4



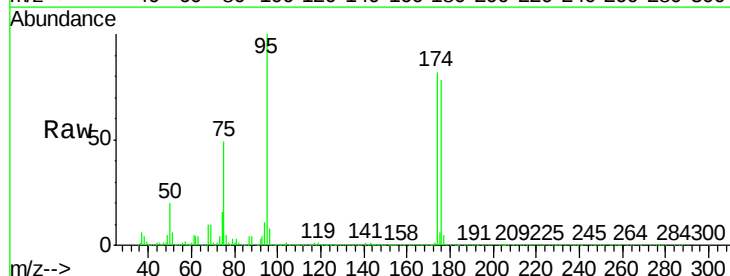
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



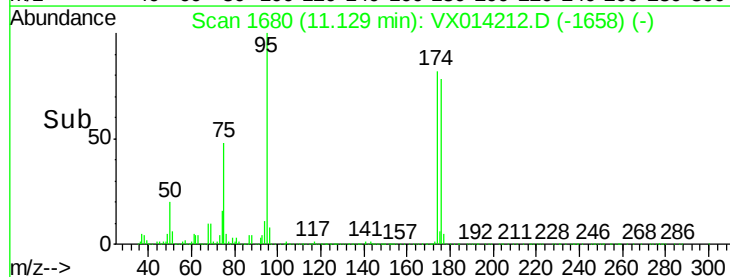
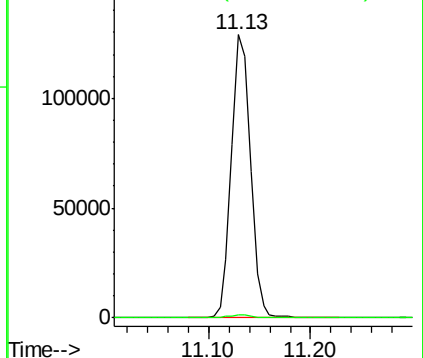
#76

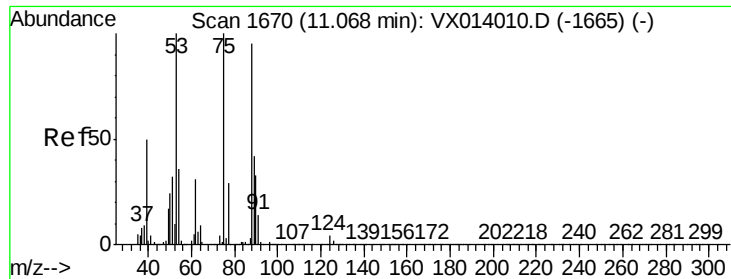
1,2,3-Trichloropropane
Concen: 22.406 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.16 min
Lab File: VX014212.D
Acq: 23 Dec 2019 19:06

Tgt Ion: 75 Resp: 167828
Ion Ratio Lower Upper
75 100
77 1.4 19.3 57.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 63.242 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014212.D

Acq: 23 Dec 2019 19:06

Instrument :

MSVOA_X

ClientSampleId :

MW-3

Tgt Ion: 75 Resp: 167828

Ion Ratio Lower Upper

75 100

53 0.4 76.7 115.1#

89 1.2 34.6 51.8#

