

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX121319\
 Data File : VX014014.D
 Acq On : 13 Dec 2019 18:58
 Operator : JC/SP
 Sample : VX1213WBL01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1213WBL01

Quant Time: Dec 14 01:23:45 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121319W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 13 17:10:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	571235	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	868827	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	779833	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	340083	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	314962	48.65	ug/l	0.00
Spiked Amount			Recovery	=	97.30%	
35) Dibromofluoromethane	5.48	113	257138	48.69	ug/l	0.00
Spiked Amount			Recovery	=	97.38%	
50) Toluene-d8	8.71	98	1031070	50.14	ug/l	0.00
Spiked Amount			Recovery	=	100.28%	
62) 4-Bromofluorobenzene	11.14	95	346853	46.15	ug/l	0.00
Spiked Amount			Recovery	=	92.30%	

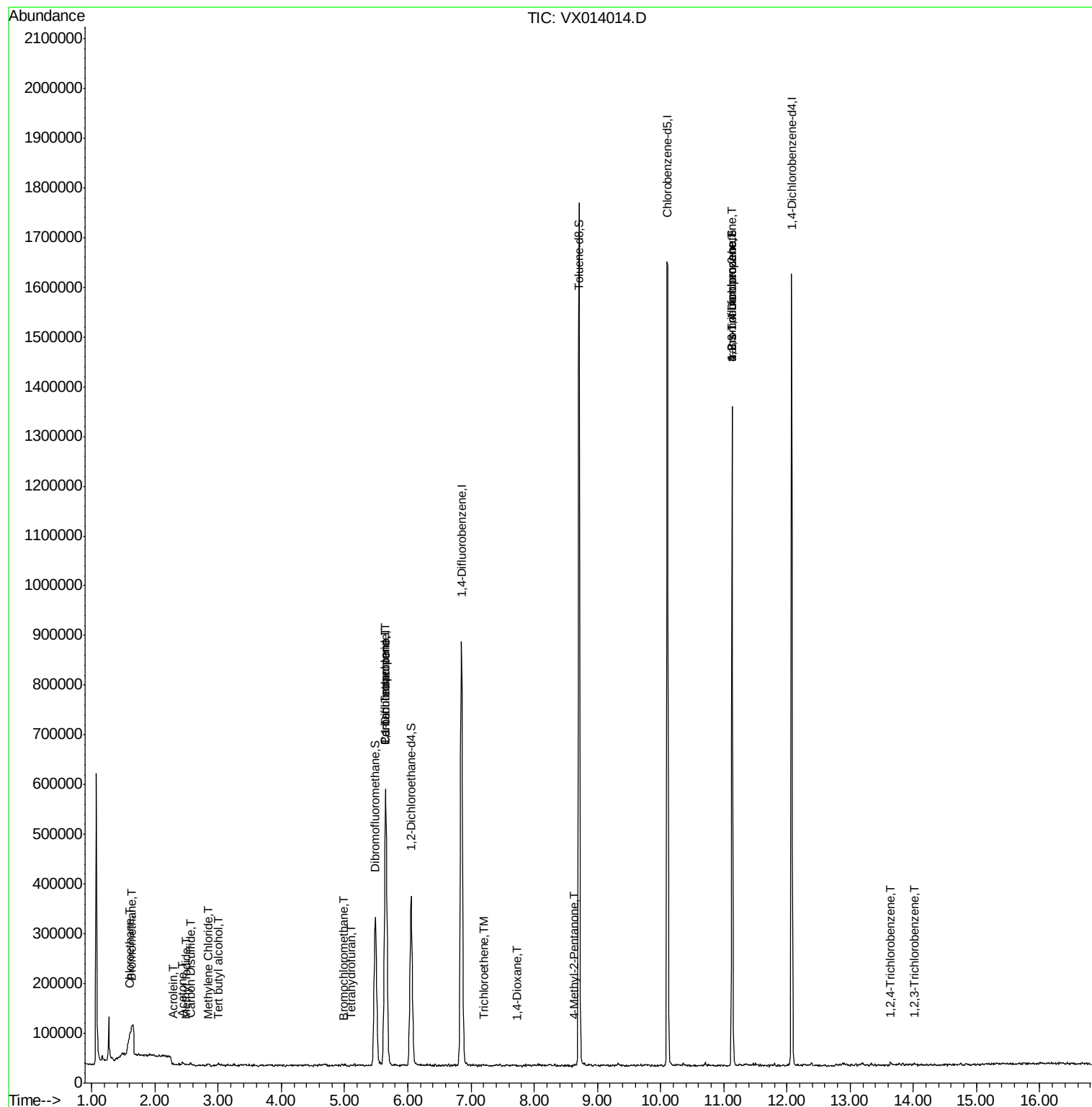
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.63	94	4737	0.922	ug/l #	72
6) Chloroethane	1.60	64	30737	6.882	ug/l #	75
10) Methyl Iodide	2.50	142	1172	2.777	ug/l #	69
11) Tert butyl alcohol	3.01	59	3934	2.812	ug/l	95
13) Acrolein	2.29	56	2095	2.616	ug/l #	14
16) Acetone	2.44	43	8389	1.996	ug/l #	83
17) Carbon Disulfide	2.56	76	6387	1.163	ug/l	95
20) Methylene Chloride	2.84	84	2011	0.304	ug/l #	76
28) Bromochloromethane	4.98	49	418	0.553	ug/l #	73
29) Tetrahydrofuran	5.10	42	749	0.258	ug/l #	88
36) 1,1-Dichloropropene	5.65	75	39633	4.972	ug/l #	51
38) Carbon Tetrachloride	5.65	117	49974	6.881	ug/l #	16
44) Trichloroethene	7.20	130	1566	0.231	ug/l	61
49) 1,4-Dioxane	7.73	88	43	0.296	ug/l #	1
51) 4-Methyl-2-Pentanone	8.64	43	1847	0.202	ug/l #	83
76) 1,2,3-Trichloropropane	11.13	75	169368	22.034	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	169368	64.748	ug/l #	11
93) 1,2,4-Trichlorobenzene	13.64	180	1625	0.215	ug/l #	54
96) 1,2,3-Trichlorobenzene	14.01	180	1753	0.235	ug/l #	58

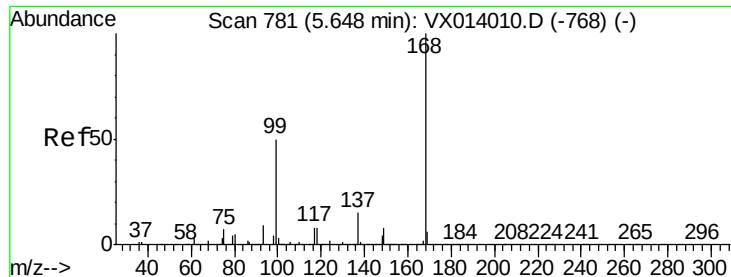
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 14 01:23:45 2019
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Quant Title : SW846 8260
QLast Update : Fri Dec 13 17:10:55 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.00 min

Lab File: VX014014.D

Acq: 13 Dec 2019 18:58

Instrument :

MSVOA_X

ClientSampleId :

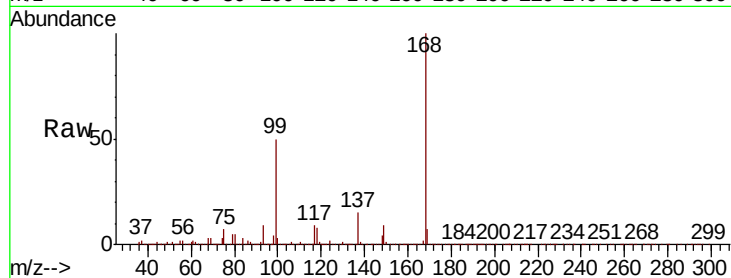
VX1213WBL01

Tgt Ion: 168 Resp: 571235

Ion Ratio Lower Upper

168 100

99 50.4 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

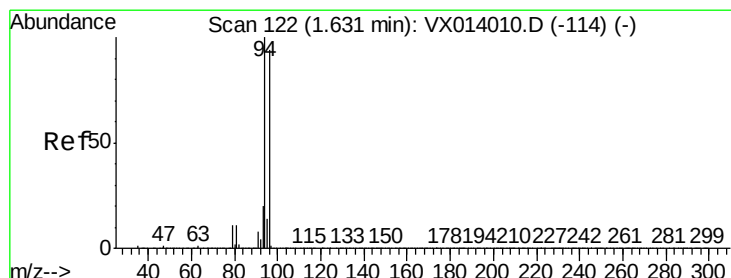
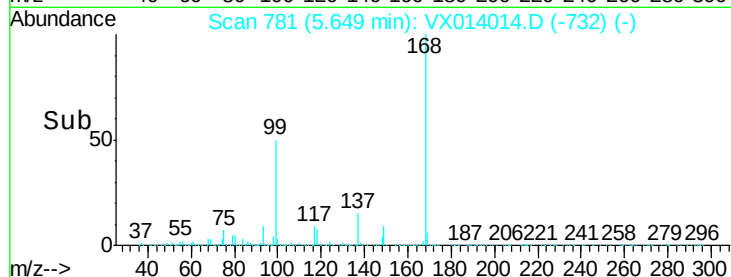
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.922 ug/l

RT: 1.63 min Scan# 122

Delta R.T. 0.00 min

Lab File: VX014014.D

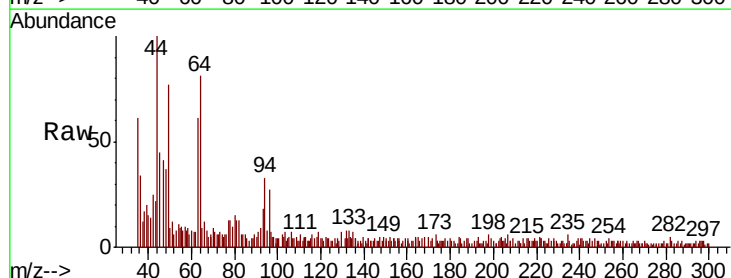
Acq: 13 Dec 2019 18:58

Tgt Ion: 94 Resp: 4737

Ion Ratio Lower Upper

94 100

96 66.9 75.2 112.8#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.63

2000

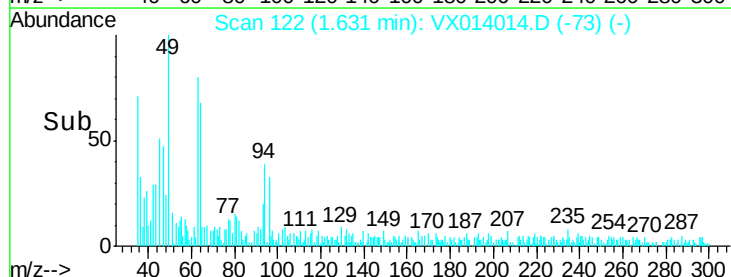
1500

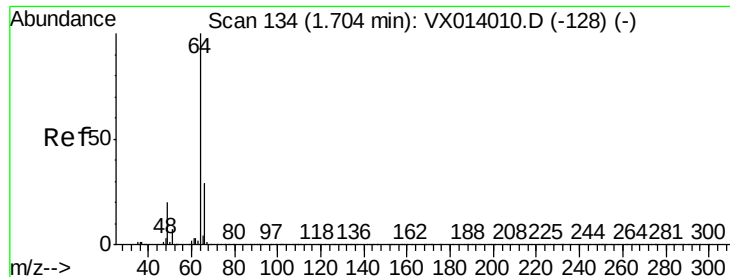
1000

500

0

Time-->





#6

Chloroethane

Concen: 6.882 ug/l

RT: 1.60 min Scan# 117

Delta R.T. -0.10 min

Lab File: VX014014.D

Acq: 13 Dec 2019 18:58

Instrument :

MSVOA_X

ClientSampleId :

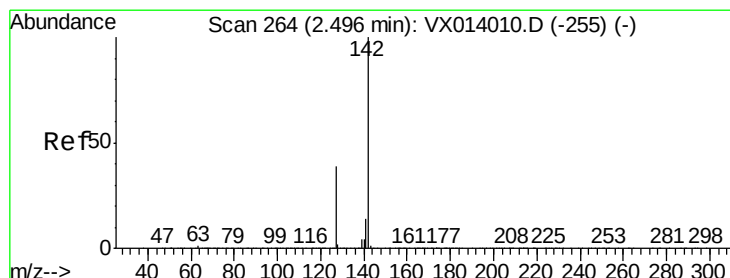
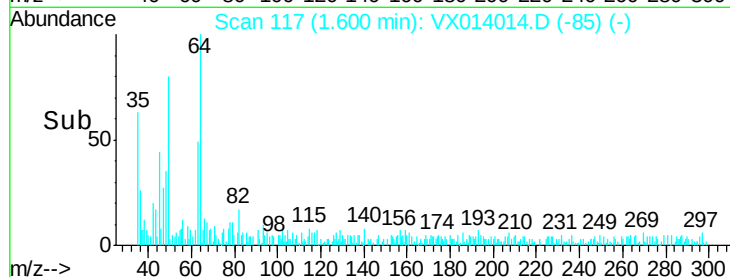
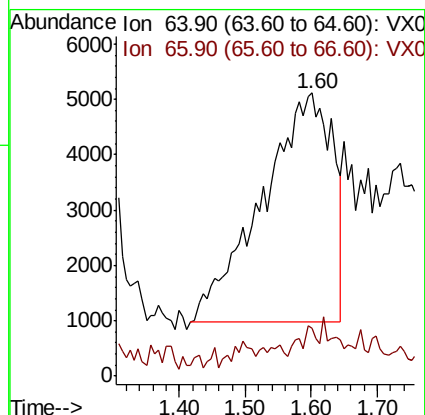
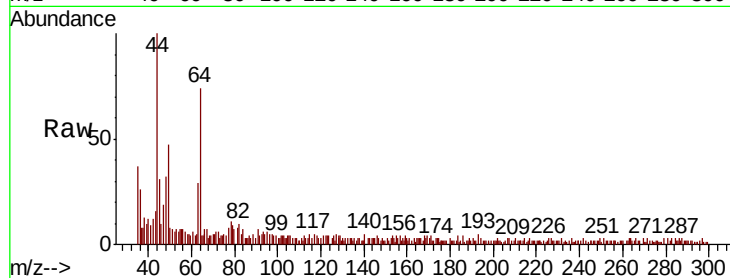
VX1213WBL01

Tgt Ion: 64 Resp: 30737

Ion Ratio Lower Upper

64 100

66 15.8 23.4 35.2#



#10

Methyl Iodide

Concen: 2.777 ug/l

RT: 2.50 min Scan# 265

Delta R.T. 0.01 min

Lab File: VX014014.D

Acq: 13 Dec 2019 18:58

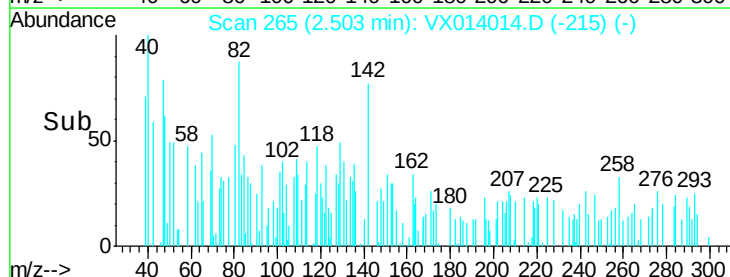
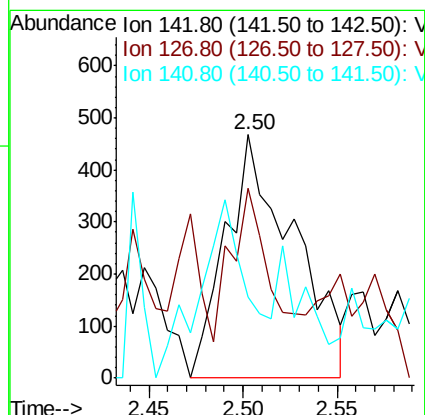
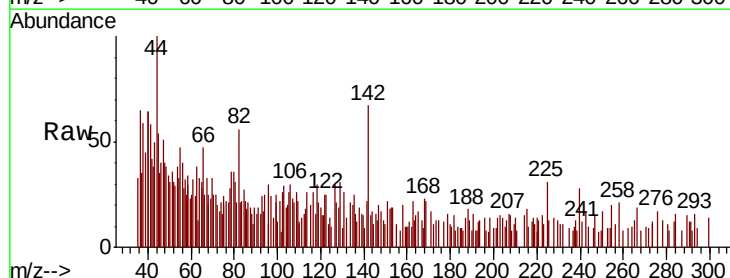
Tgt Ion: 142 Resp: 1172

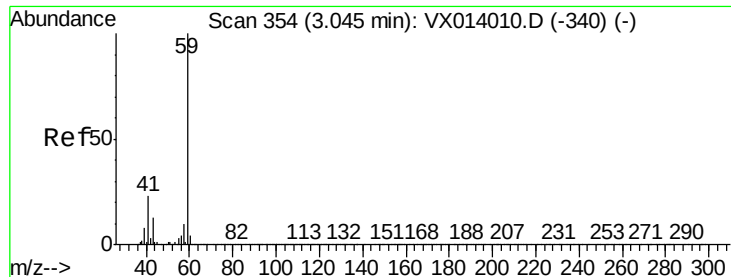
Ion Ratio Lower Upper

142 100

127 34.6 31.6 47.4

141 52.9 11.6 17.4#



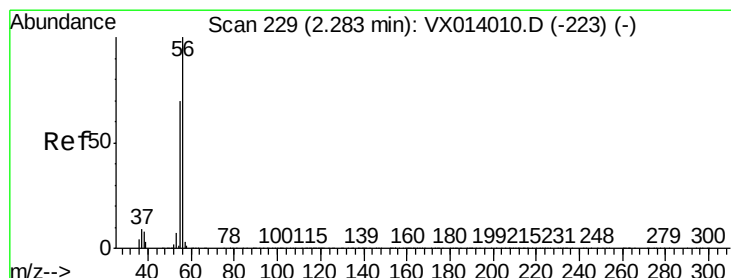
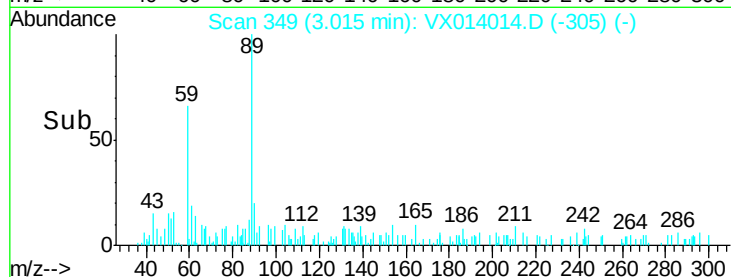
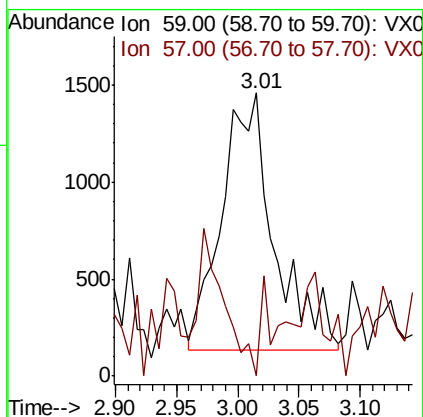
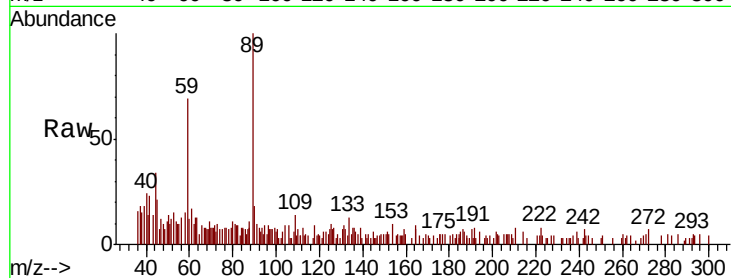


#11

Tert butyl alcohol
Concen: 2.812 ug/l
RT: 3.01 min Scan# 349
Delta R.T. -0.03 min
Lab File: VX014014.D
Acq: 13 Dec 2019 18:58

Instrument :
MSVOA_X
ClientSampleId :
VX1213WBL01

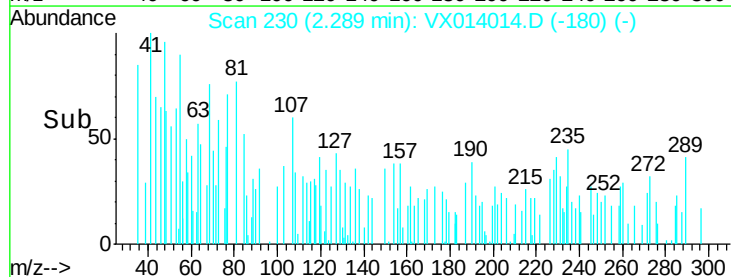
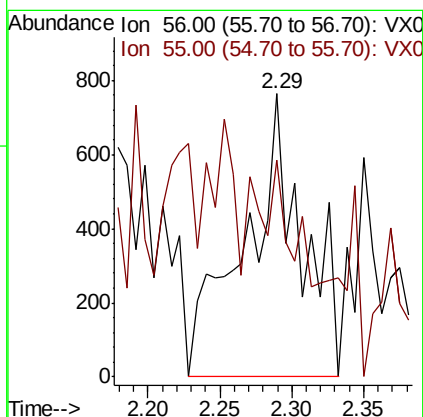
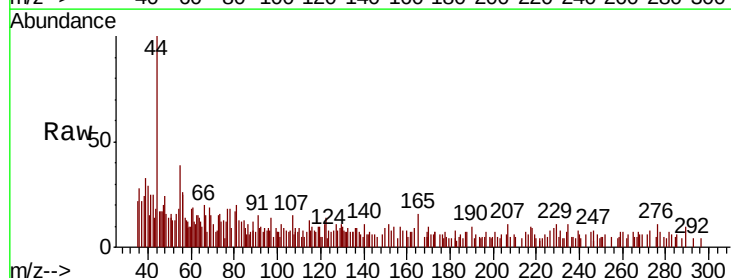
Tgt Ion: 59 Resp: 3934
Ion Ratio Lower Upper
59 100
57 8.7 8.4 12.6

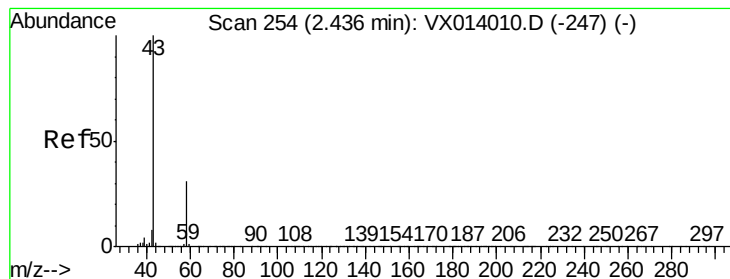


#13

Acrolein
Concen: 2.616 ug/l
RT: 2.29 min Scan# 230
Delta R.T. 0.01 min
Lab File: VX014014.D
Acq: 13 Dec 2019 18:58

Tgt Ion: 56 Resp: 2095
Ion Ratio Lower Upper
56 100
55 0.0 56.9 85.3#





#16

Acetone

Concen: 1.996 ug/l

RT: 2.44 min Scan# 254

Delta R.T. 0.00 min

Lab File: VX014014.D

Acq: 13 Dec 2019 18:58

Instrument :

MSVOA_X

ClientSampleId :

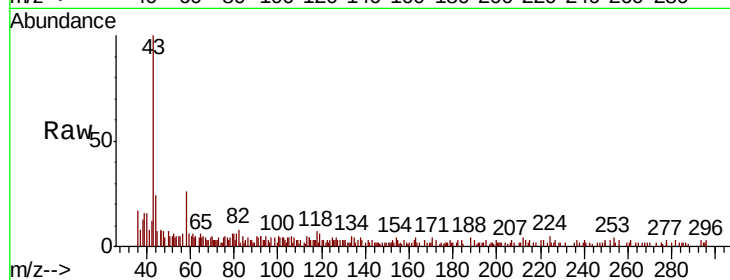
VX1213WBL01

Tgt Ion: 43 Resp: 8389

Ion Ratio Lower Upper

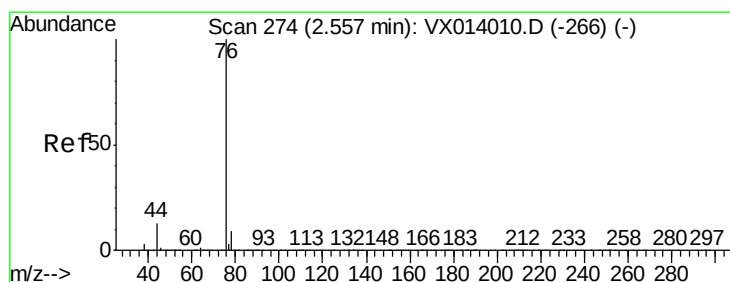
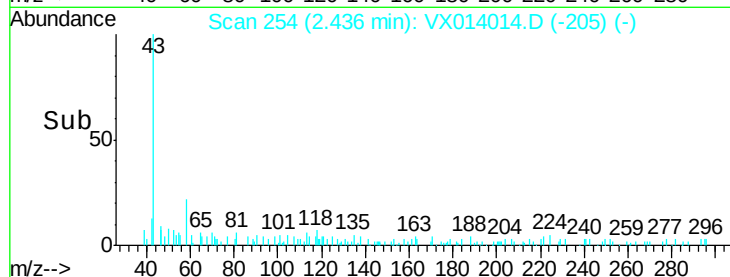
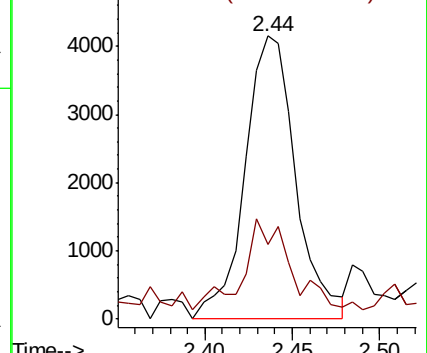
43 100

58 22.0 24.9 37.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 1.163 ug/l

RT: 2.56 min Scan# 274

Delta R.T. 0.00 min

Lab File: VX014014.D

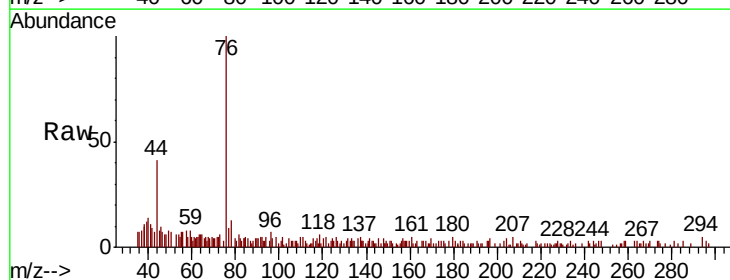
Acq: 13 Dec 2019 18:58

Tgt Ion: 76 Resp: 6387

Ion Ratio Lower Upper

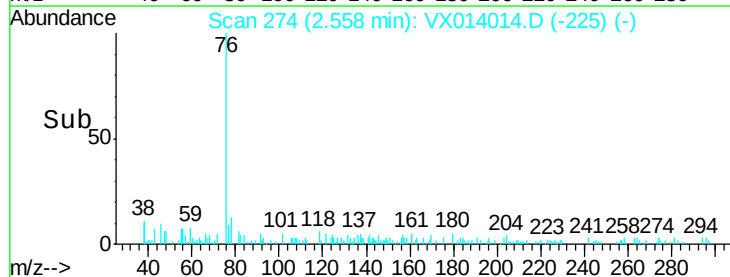
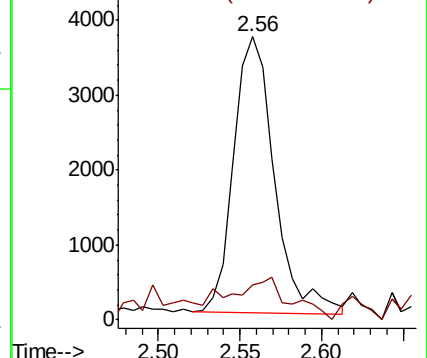
76 100

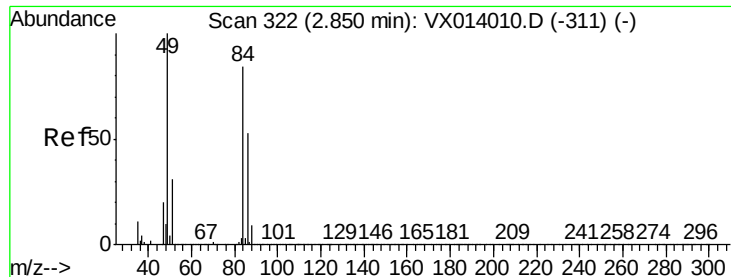
78 7.3 7.2 10.8



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0





#20

Methylene Chloride

Concen: 0.304 ug/l

RT: 2.84 min Scan# 320

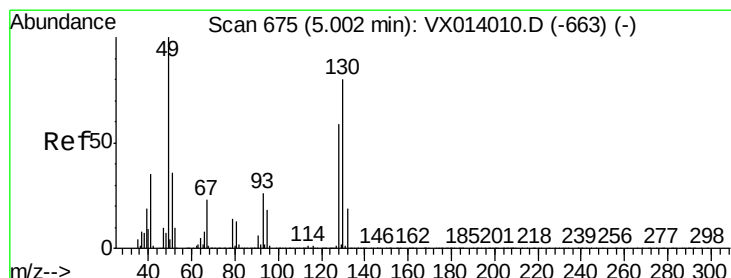
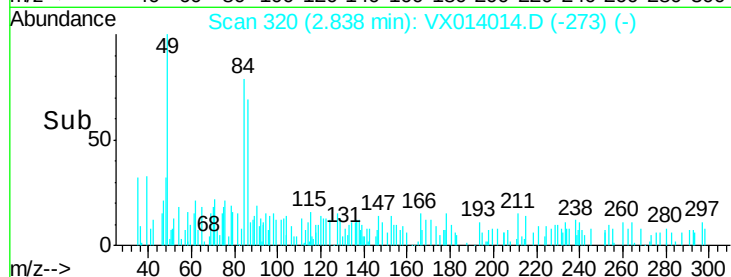
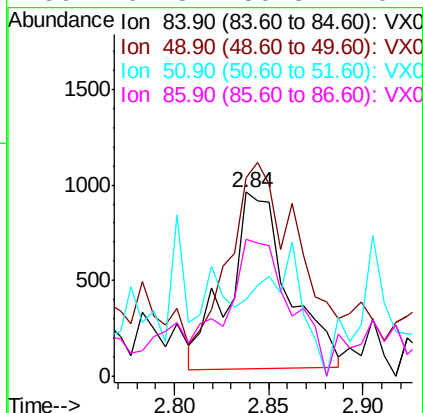
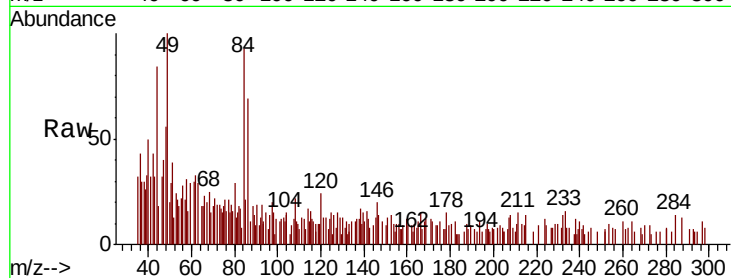
Delta R.T. -0.01 min

Lab File: VX014014.D

Acq: 13 Dec 2019 18:58

Instrument :
MSVOA_X
ClientSampleId :
VX1213WBL01

Tgt Ion:	84	Resp:	2011
Ion	Ratio	Lower	Upper
84	100		
49	85.0	95.8	143.6#
51	14.2	29.8	44.8#
86	62.8	50.8	76.2



#28

Bromochloromethane

Concen: 0.553 ug/l

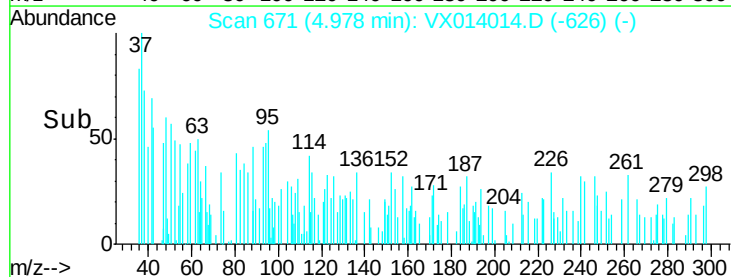
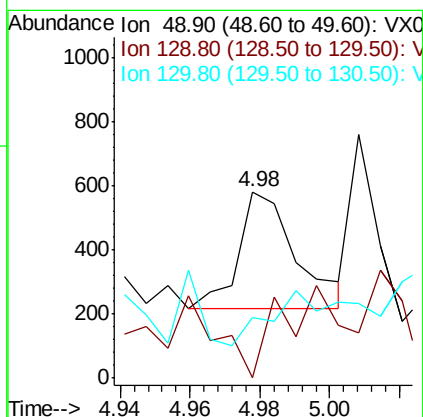
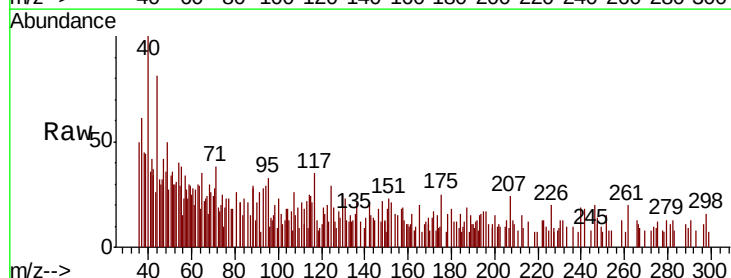
RT: 4.98 min Scan# 671

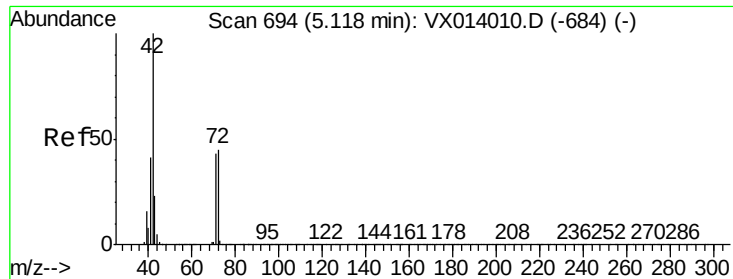
Delta R.T. -0.02 min

Lab File: VX014014.D

Acq: 13 Dec 2019 18:58

Tgt Ion:	49	Resp:	418
Ion	Ratio	Lower	Upper
49	100		
129	85.6	0.0	5.0#
130	62.4	64.6	97.0#





#29

Tetrahydrofuran

Concen: 0.258 ug/l

RT: 5.10 min Scan# 691

Delta R.T. -0.02 min

Lab File: VX014014.D

Acq: 13 Dec 2019 18:58

Instrument :

MSVOA_X

ClientSampled :

VX1213WBL01

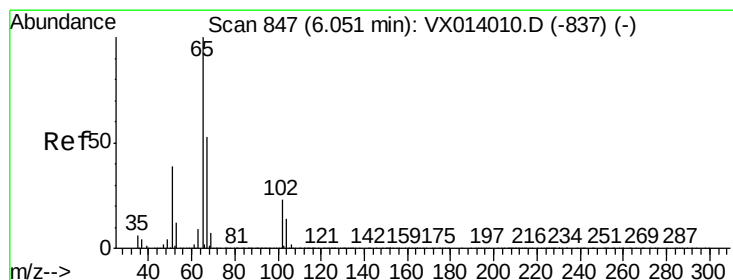
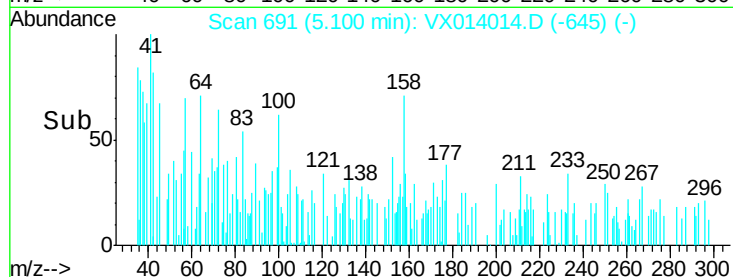
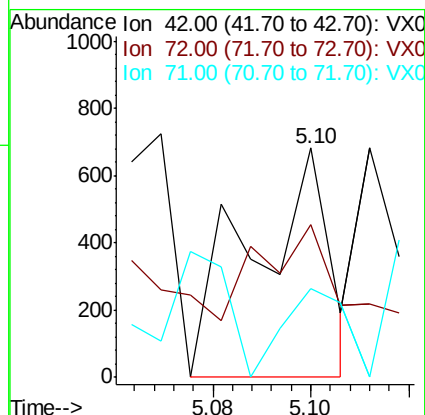
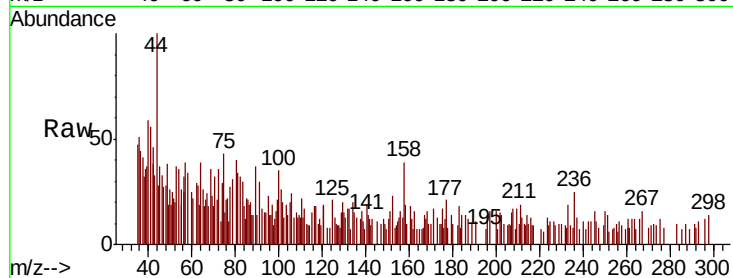
Tgt Ion: 42 Resp: 749

Ion Ratio Lower Upper

42 100

72 40.2 35.8 53.8

71 31.0 33.6 50.4#



#33

1,2-Dichloroethane-d4

Concen: 48.649 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX014014.D

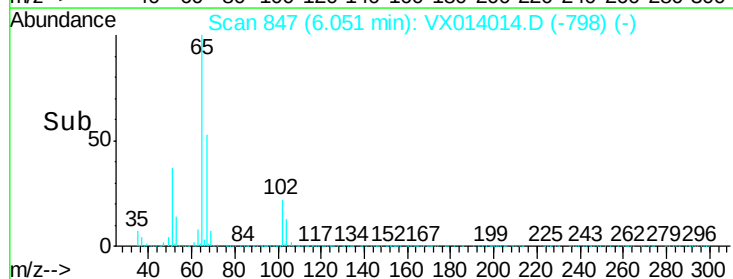
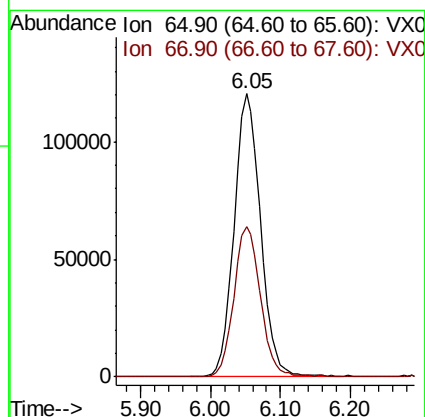
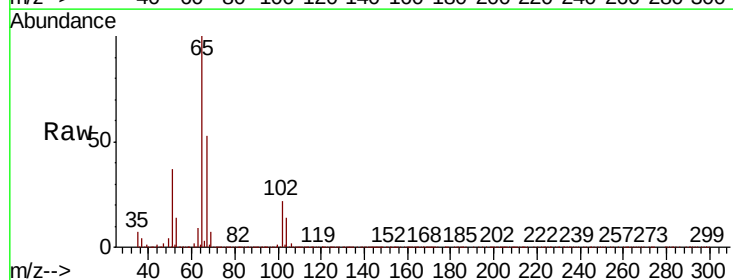
Acq: 13 Dec 2019 18:58

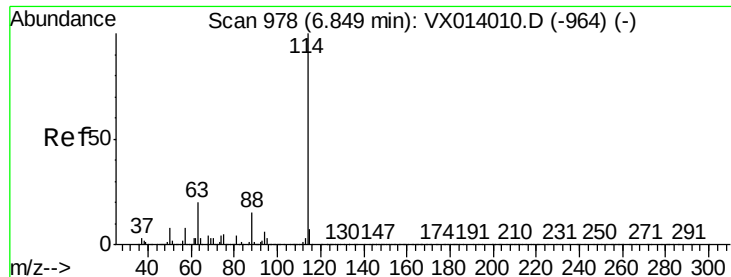
Tgt Ion: 65 Resp: 314962

Ion Ratio Lower Upper

65 100

67 52.7 0.0 106.4

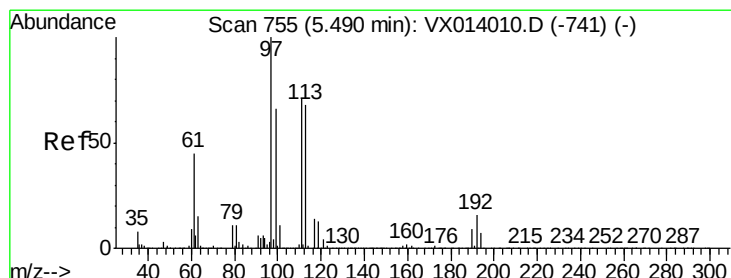
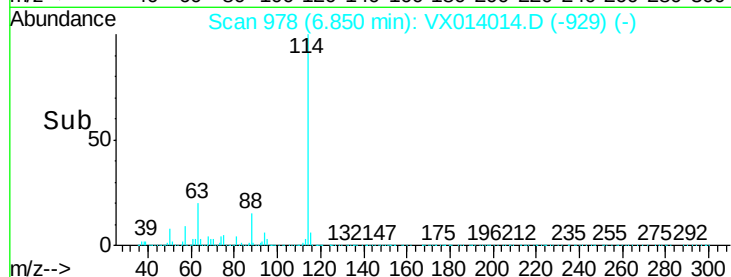
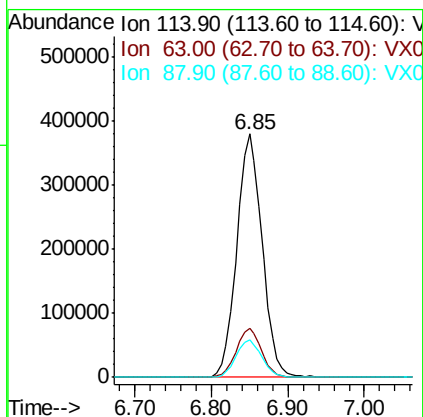
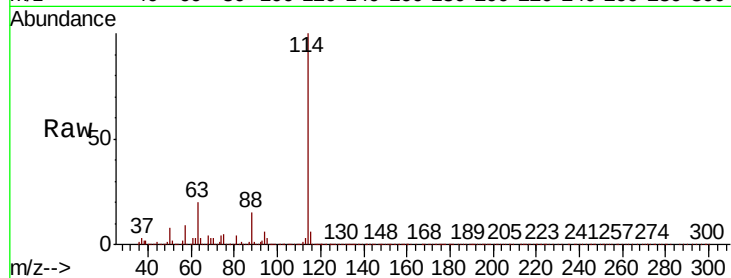




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX014014.D
 Acq: 13 Dec 2019 18:58

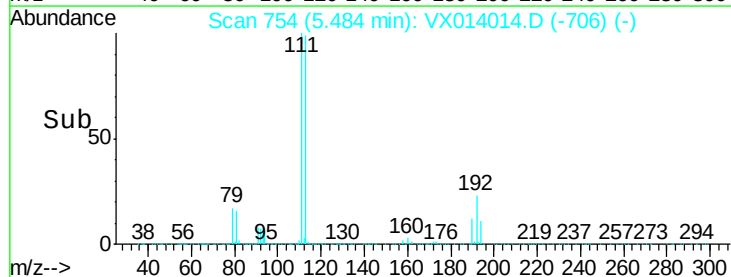
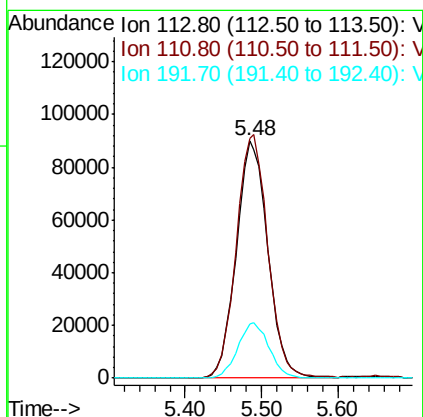
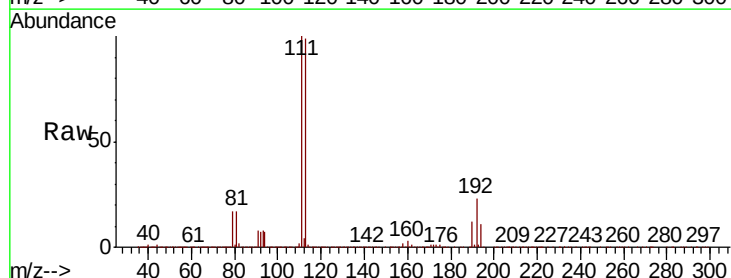
Instrument :
 MSVOA_X
 ClientSampleId :
 VX1213WBL01

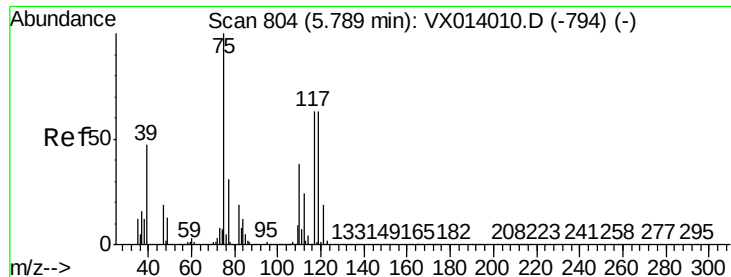
Tgt Ion:	114	Resp:	868827
Ion	Ratio	Lower	Upper
114	100		
63	20.0	0.0	40.8
88	15.4	0.0	30.4



#35
 Dibromofluoromethane
 Concen: 48.686 ug/l
 RT: 5.48 min Scan# 754
 Delta R.T. -0.01 min
 Lab File: VX014014.D
 Acq: 13 Dec 2019 18:58

Tgt Ion:	113	Resp:	257138
Ion	Ratio	Lower	Upper
113	100		
111	102.5	82.0	123.0
192	23.4	19.3	28.9

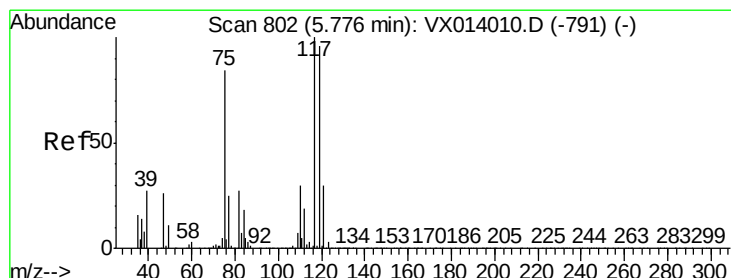
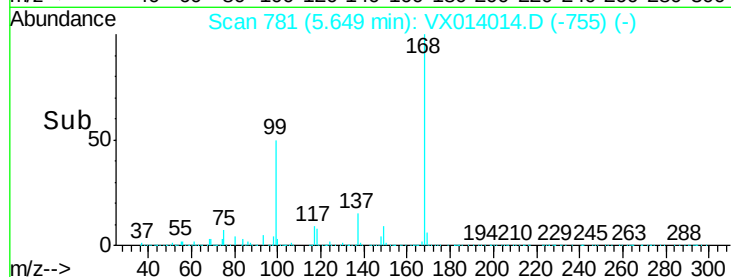
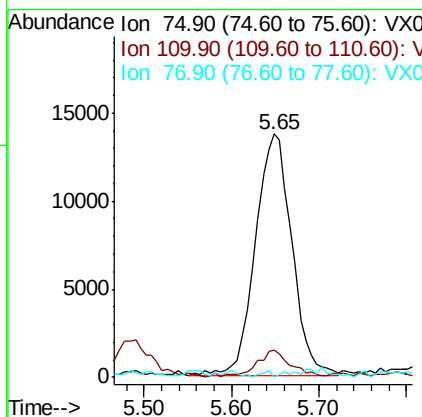
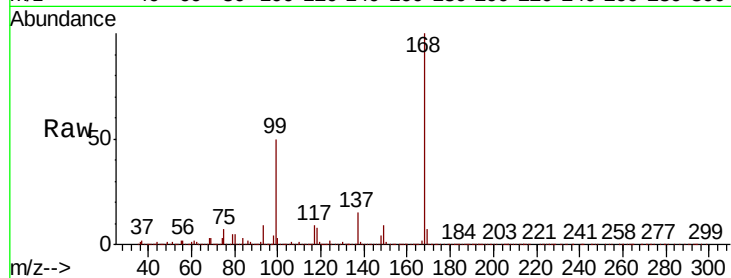




#36
 1,1-Dichloropropene
 Concen: 4.972 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.14 min
 Lab File: VX014014.D
 Acq: 13 Dec 2019 18:58

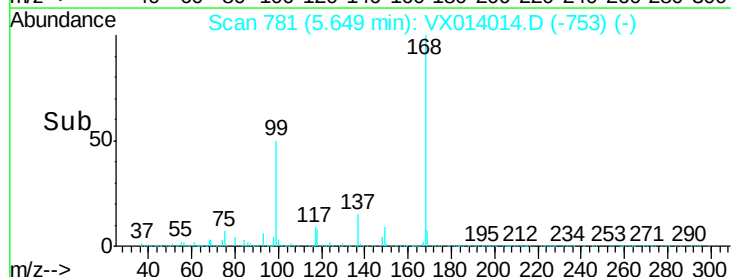
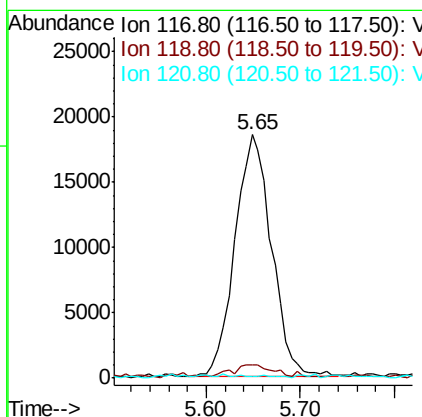
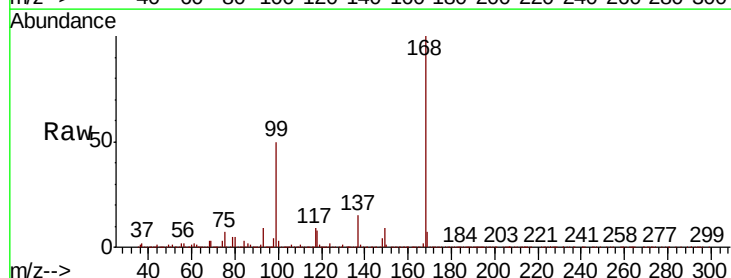
Instrument :
 MSVOA_X
 ClientSampleId :
 VX1213WBL01

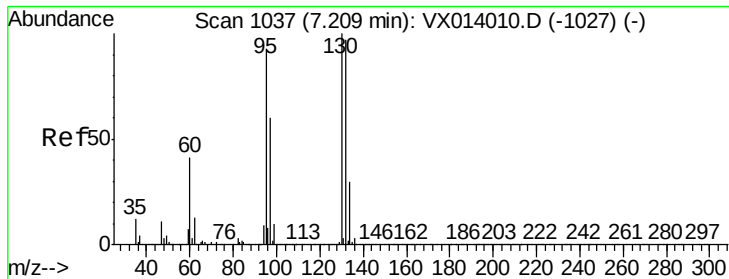
Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.8	18.3	54.9#
77	0.7	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 6.881 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.13 min
 Lab File: VX014014.D
 Acq: 13 Dec 2019 18:58

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.7	76.2	114.4#
121	0.0	23.6	35.4#





#44

Trichloroethene

Concen: 0.231 ug/l

RT: 7.20 min Scan# 1036

Delta R.T. -0.01 min

Lab File: VX014014.D

Acq: 13 Dec 2019 18:58

Instrument :

MSVOA_X

ClientSampleId :

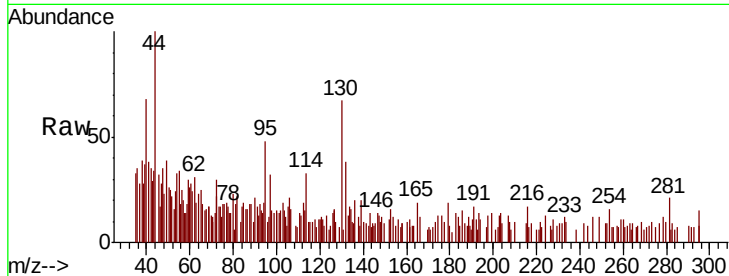
VX1213WBL01

Tgt Ion: 130 Resp: 1566

Ion Ratio Lower Upper

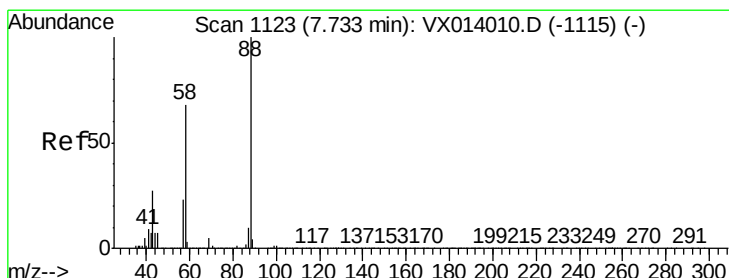
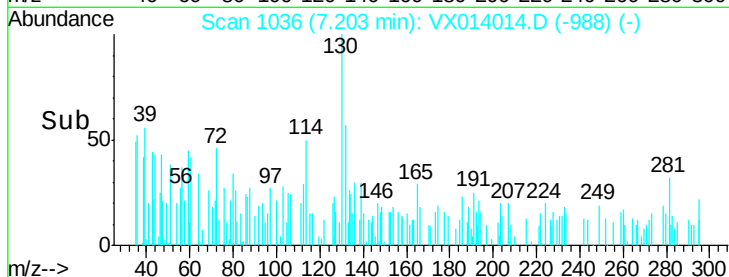
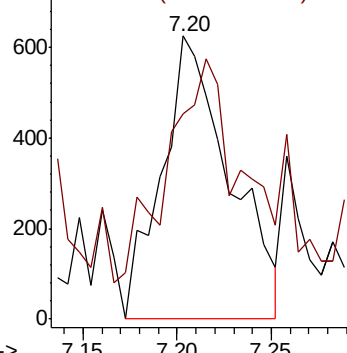
130 100

95 55.7 0.0 185.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 0.296 ug/l

RT: 7.73 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VX014014.D

Acq: 13 Dec 2019 18:58

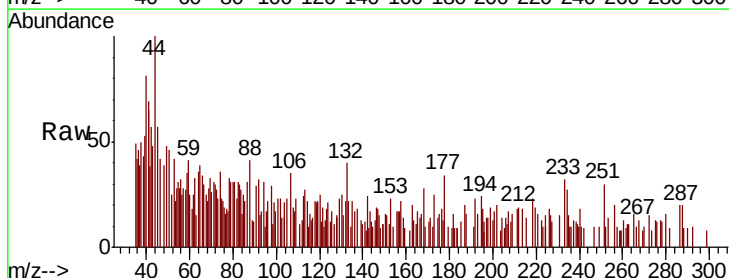
Tgt Ion: 88 Resp: 43

Ion Ratio Lower Upper

88 100

43 290.7 26.5 39.7#

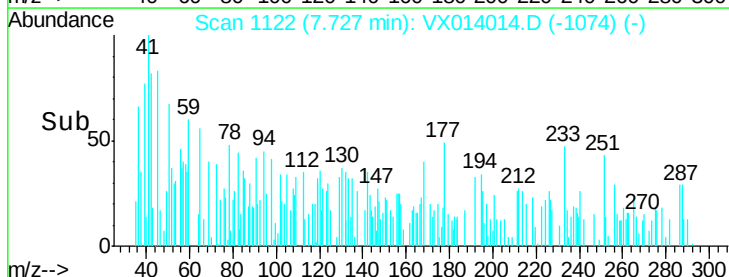
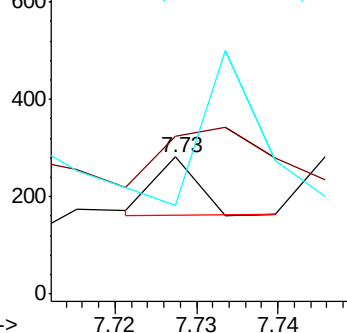
58 1116.3 56.8 85.2#

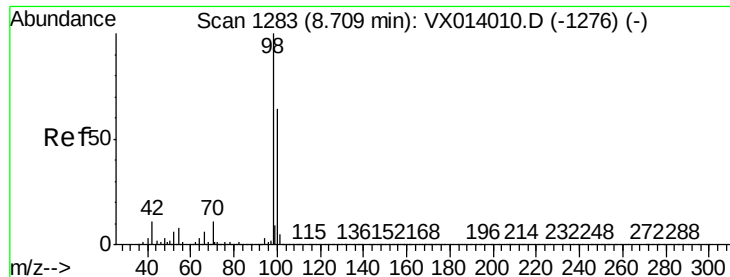


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.144 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014014.D

Acq: 13 Dec 2019 18:58

Instrument :

MSVOA_X

ClientSampleId :

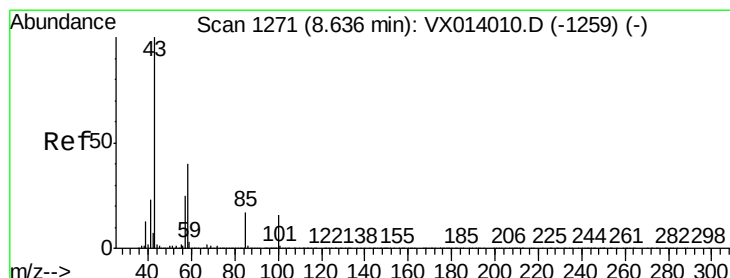
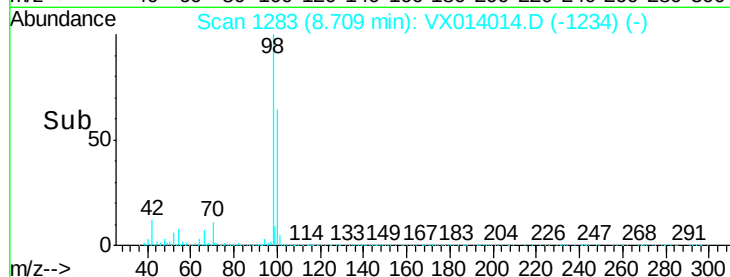
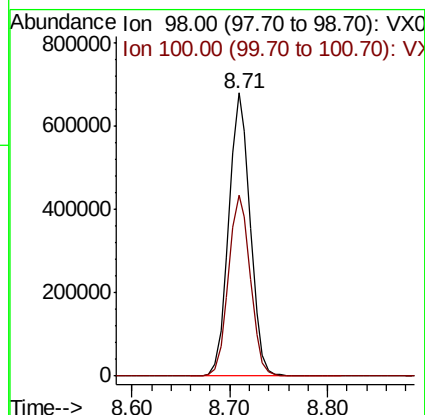
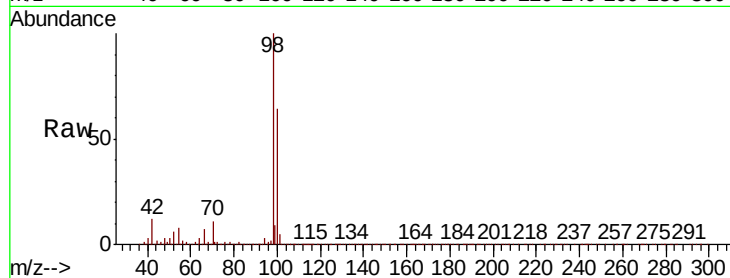
VX1213WBL01

Tgt Ion: 98 Resp: 1031070

Ion Ratio Lower Upper

98 100

100 65.2 52.9 79.3



#51

4-Methyl-2-Pentanone

Concen: 0.202 ug/l

RT: 8.64 min Scan# 1272

Delta R.T. 0.01 min

Lab File: VX014014.D

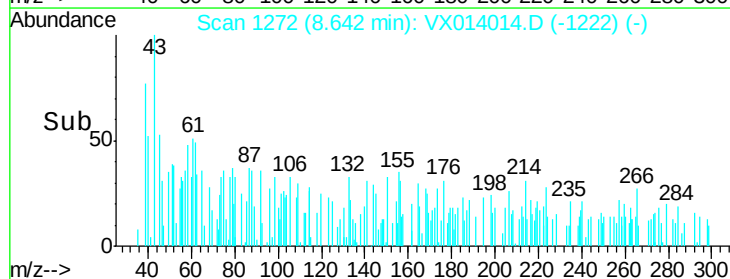
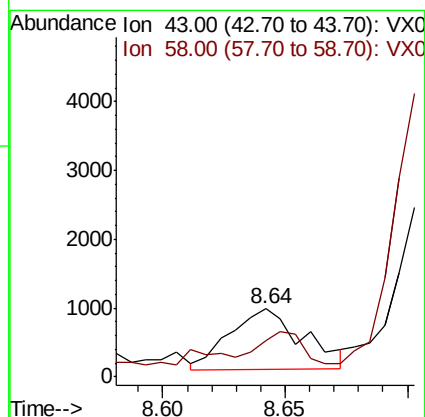
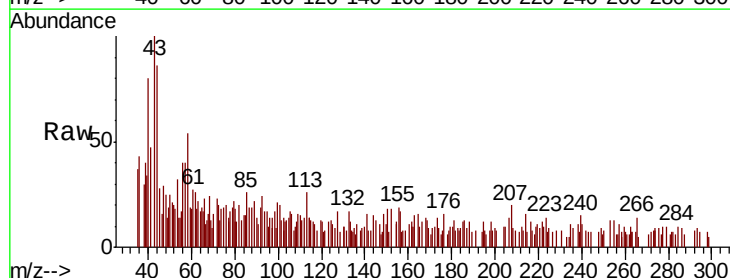
Acq: 13 Dec 2019 18:58

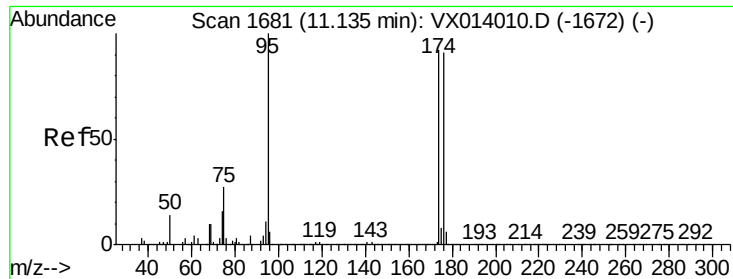
Tgt Ion: 43 Resp: 1847

Ion Ratio Lower Upper

43 100

58 29.9 32.2 48.2#





#62

4-Bromofluorobenzene

Concen: 46.146 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX014014.D

Acq: 13 Dec 2019 18:58

Instrument :

MSVOA_X

ClientSampleId :

VX1213WBL01

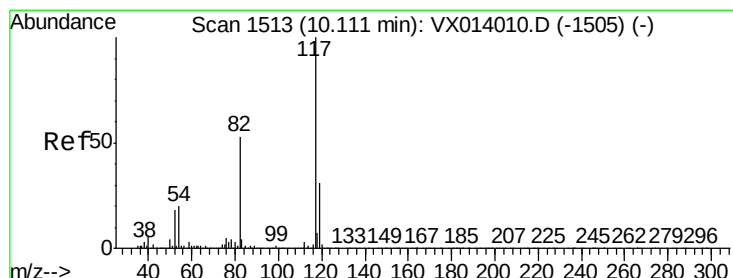
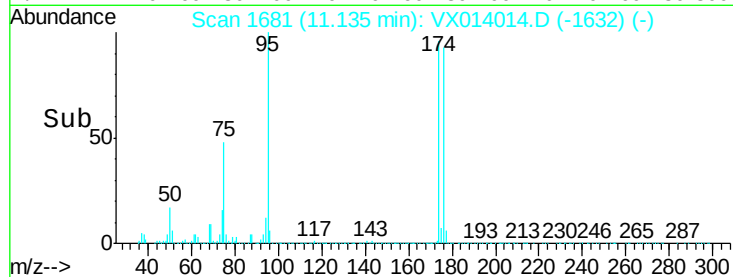
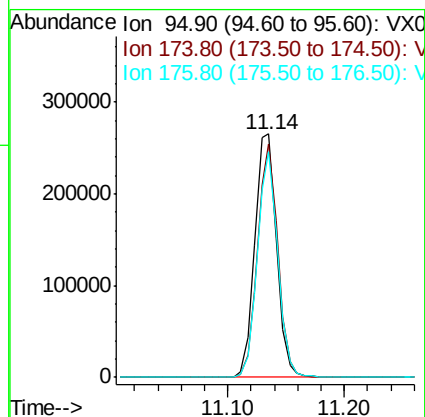
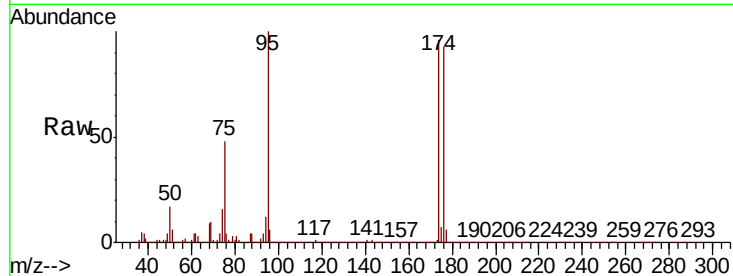
Tgt Ion: 95 Resp: 346853

Ion Ratio Lower Upper

95 100

174 89.7 0.0 175.8

176 86.2 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: VX014014.D

Acq: 13 Dec 2019 18:58

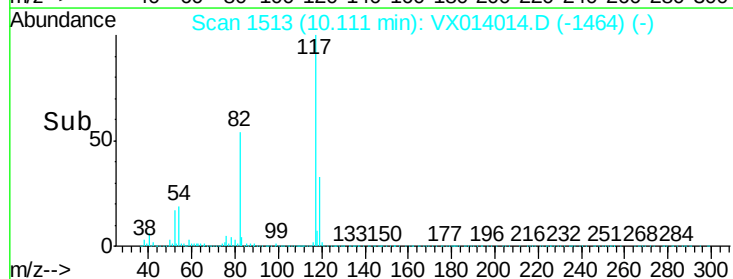
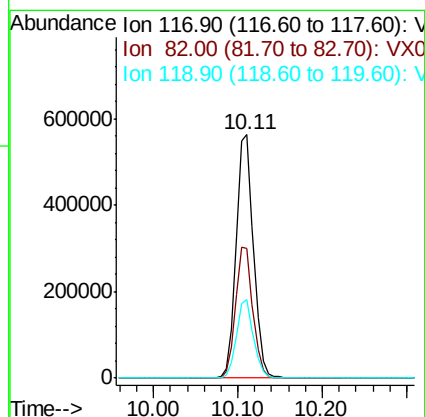
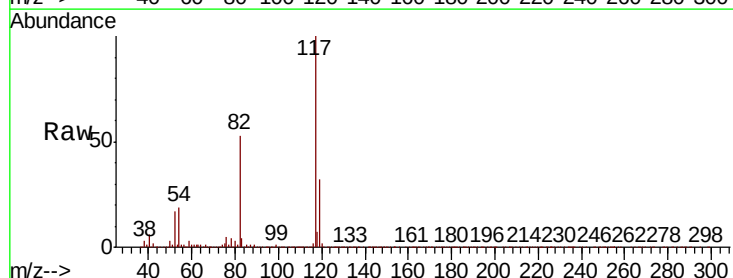
Tgt Ion: 117 Resp: 779833

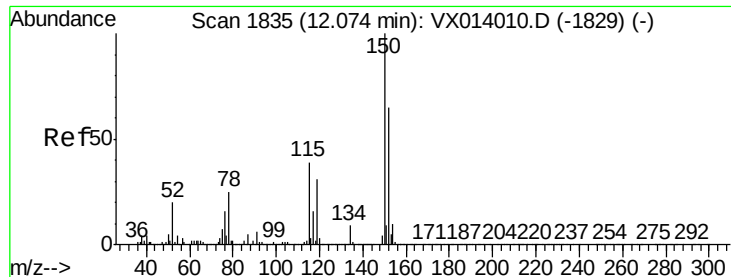
Ion Ratio Lower Upper

117 100

82 53.4 42.2 63.4

119 32.5 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: VX014014.D

Acq: 13 Dec 2019 18:58

Instrument :

MSVOA_X

ClientSampleId :

VX1213WBL01

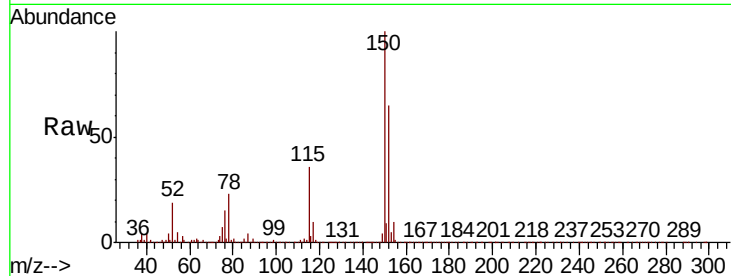
Tgt Ion: 152 Resp: 340083

Ion Ratio Lower Upper

152 100

115 55.2 38.3 114.9

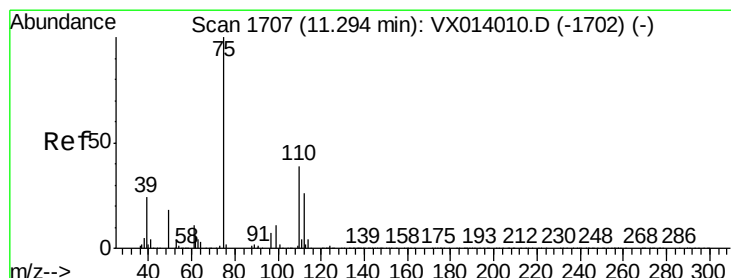
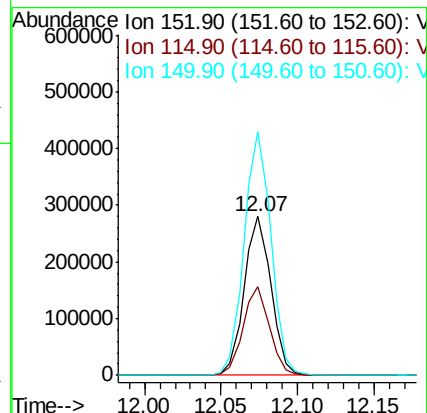
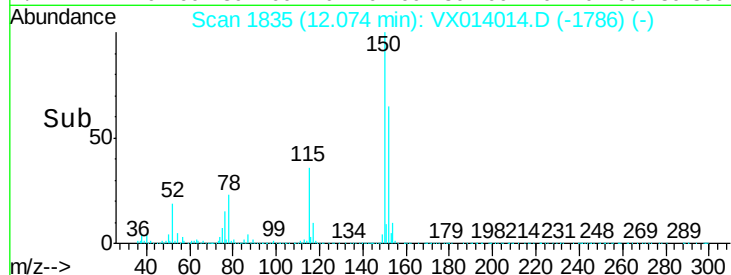
150 153.6 0.0 345.4



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



#76

1,2,3-Trichloropropane

Concen: 22.034 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014014.D

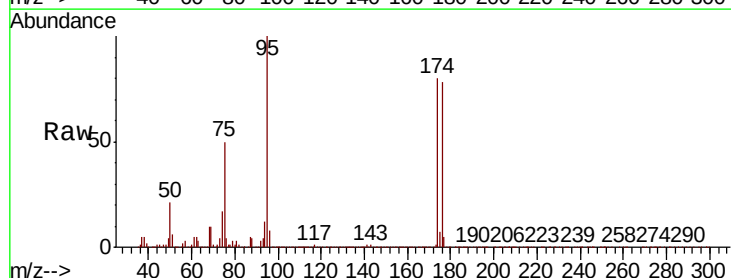
Acq: 13 Dec 2019 18:58

Tgt Ion: 75 Resp: 169368

Ion Ratio Lower Upper

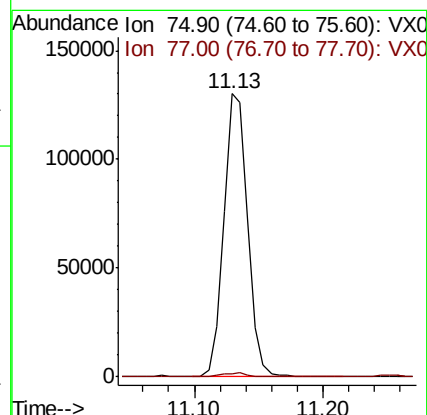
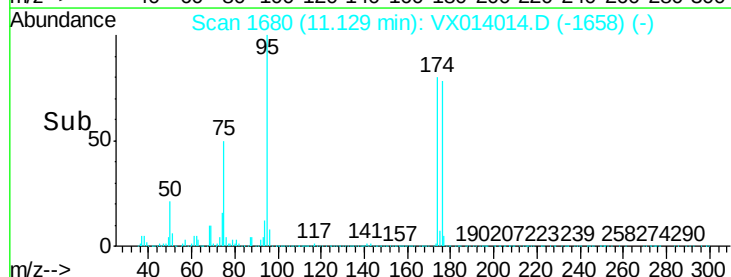
75 100

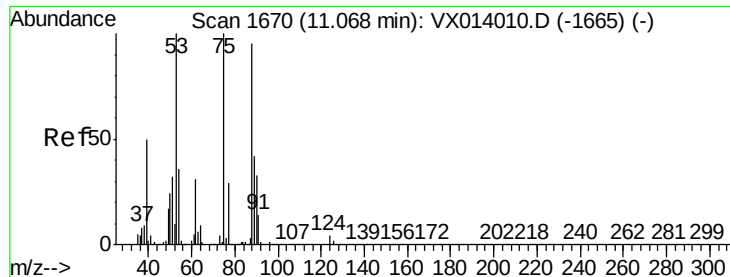
77 1.3 19.3 57.8#



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: 64.748 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014014.D

Acq: 13 Dec 2019 18:58

Instrument :

MSVOA_X

ClientSampleId :

VX1213WBL01

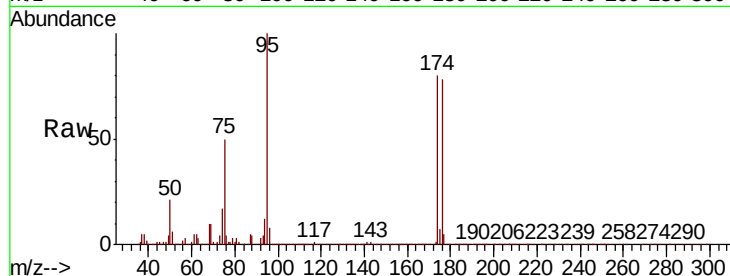
Tgt Ion: 75 Resp: 169368

Ion Ratio Lower Upper

75 100

53 0.1 76.7 115.1#

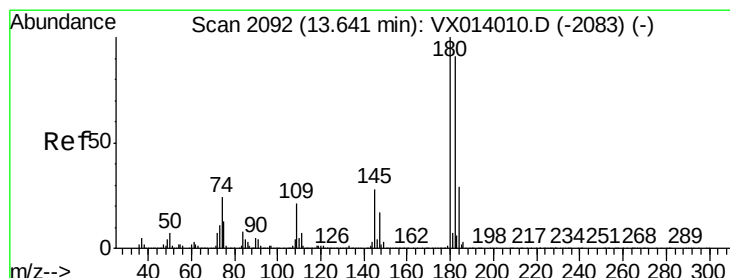
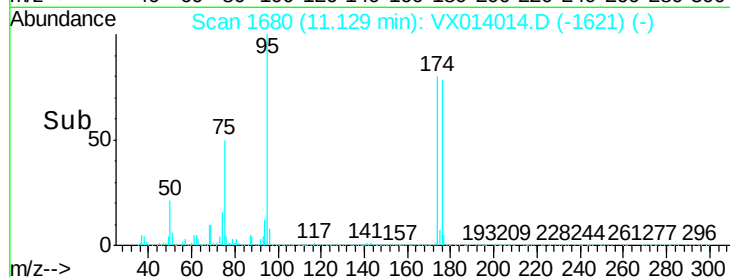
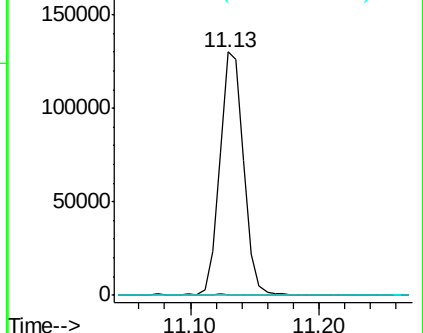
89 0.0 34.6 51.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#93

1,2,4-Trichlorobenzene

Concen: 0.215 ug/l

RT: 13.64 min Scan# 2092

Delta R.T. 0.00 min

Lab File: VX014014.D

Acq: 13 Dec 2019 18:58

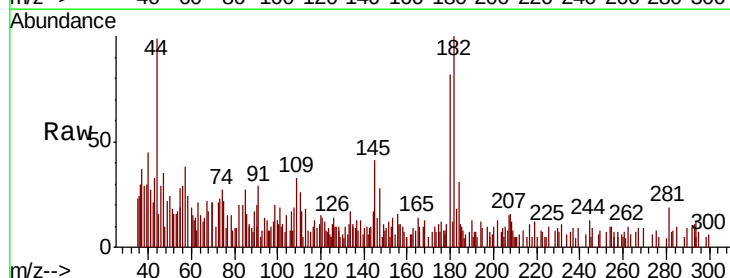
Tgt Ion: 180 Resp: 1625

Ion Ratio Lower Upper

180 100

182 131.2 46.6 139.8

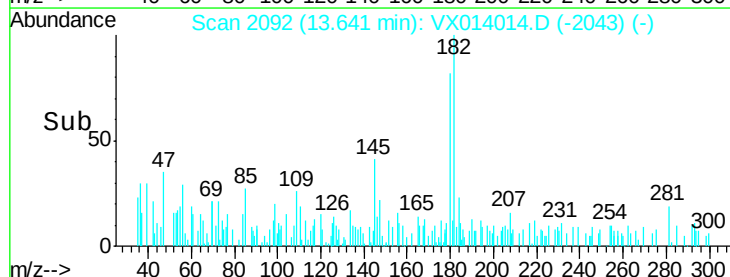
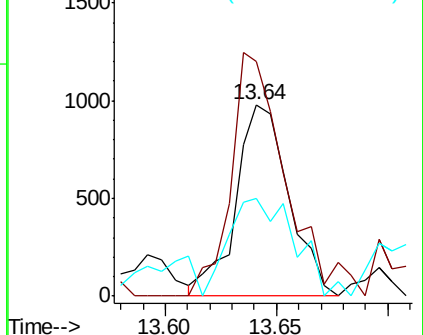
145 64.1 14.2 42.6#

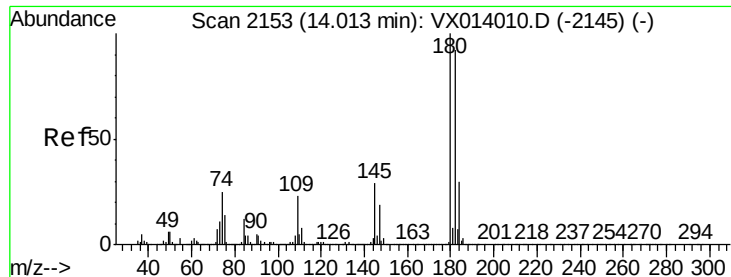


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#96
 1,2,3-Trichlorobenzene
 Concen: 0.235 ug/l
 RT: 14.01 min Scan# 2153
 Delta R.T. 0.00 min
 Lab File: VX014014.D
 Acq: 13 Dec 2019 18:58

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1213WBL01

Tgt Ion	Ratio	Lower	Upper
180	100		
182	49.4	46.8	140.3
145	46.5	14.8	44.4#

