

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121819\
 Data File : VX014085.D
 Acq On : 18 Dec 2019 10:34
 Operator : JC/SP
 Sample : VX1218WBL01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1218WBL01

Quant Time: Dec 18 16:16:15 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	573414	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	892568	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	794196	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	346968	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.04	65	326206	50.19	ug/l	0.00
Spiked Amount			Recovery	=	100.38%	
35) Dibromofluoromethane	5.48	113	269131	49.60	ug/l	0.00
Spiked Amount			Recovery	=	99.20%	
50) Toluene-d8	8.71	98	1052115	49.81	ug/l	0.00
Spiked Amount			Recovery	=	99.62%	
62) 4-Bromofluorobenzene	11.13	95	348662	45.15	ug/l	0.00
Spiked Amount			Recovery	=	90.30%	

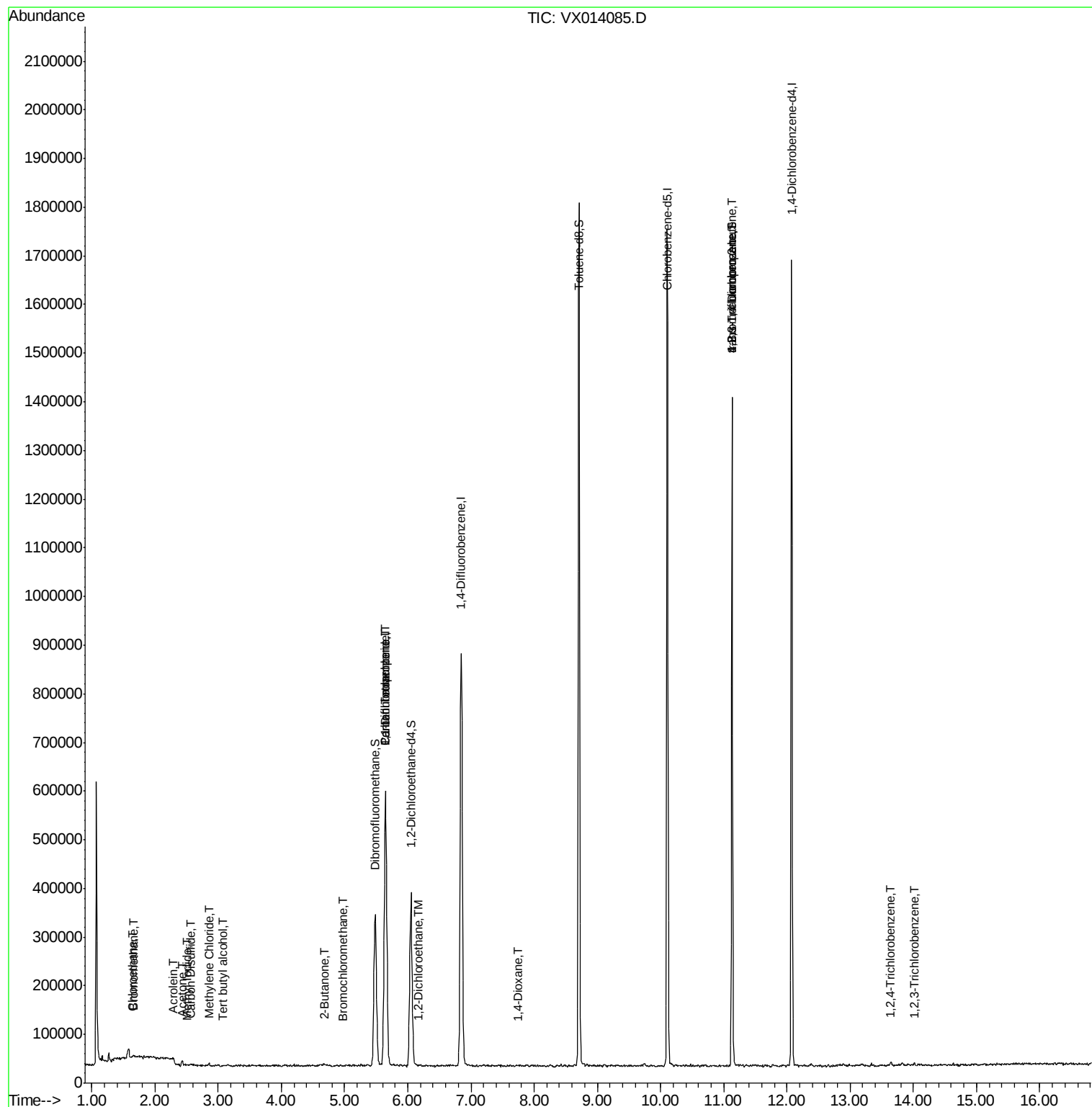
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	2329	0.452	ug/l #	58
6) Chloroethane	1.64	64	2322	0.518	ug/l #	56
10) Methyl Iodide	2.51	142	1761	2.854	ug/l #	81
11) Tert butyl alcohol	3.08	59	378	0.269	ug/l #	72
13) Acrolein	2.28	56	308	0.383	ug/l #	1
16) Acetone	2.43	43	9005	2.134	ug/l	91
17) Carbon Disulfide	2.56	76	3610	0.982	ug/l	96
20) Methylene Chloride	2.84	84	2426	0.365	ug/l #	70
25) 2-Butanone	4.67	43	1067	0.205	ug/l	96
28) Bromochloromethane	4.98	49	178	0.496	ug/l #	71
36) 1,1-Dichloropropene	5.65	75	39788	4.858	ug/l #	51
38) Carbon Tetrachloride	5.65	117	49548	6.641	ug/l #	16
42) 1,2-Dichloroethane	6.17	62	2002	0.234	ug/l #	48
49) 1,4-Dioxane	7.73	88	505	3.386	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	176069	23.374	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	176069	65.974	ug/l #	12
93) 1,2,4-Trichlorobenzene	13.65	180	1916	0.249	ug/l	83
96) 1,2,3-Trichlorobenzene	14.02	180	1778	0.234	ug/l #	91

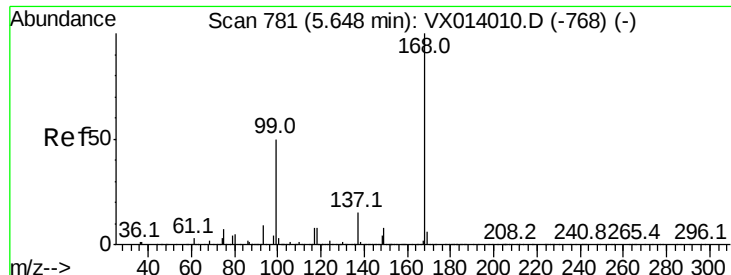
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 18 16:16:15 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# 781

Delta R.T. 0.00 min

Lab File: VX014085.D

Acq: 18 Dec 2019 10:34

Instrument :

MSVOA_X

ClientSampleId :

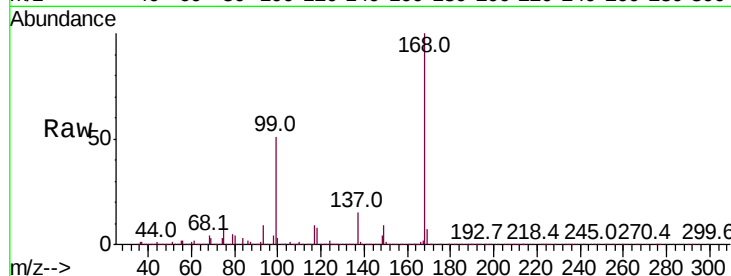
VX1218WBL01

Tot Ion:168 Resp: 573414

Ion Ratio Lower Upper

168 100

99 51.3 40.3 60.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

250000

200000

150000

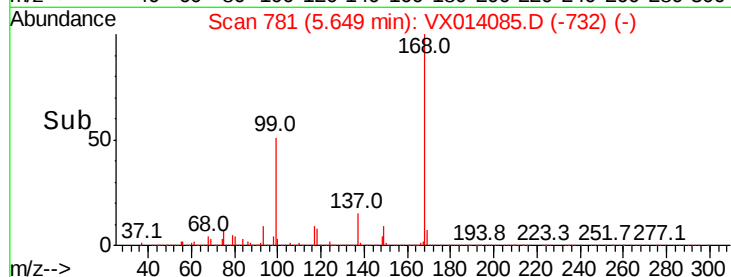
100000

50000

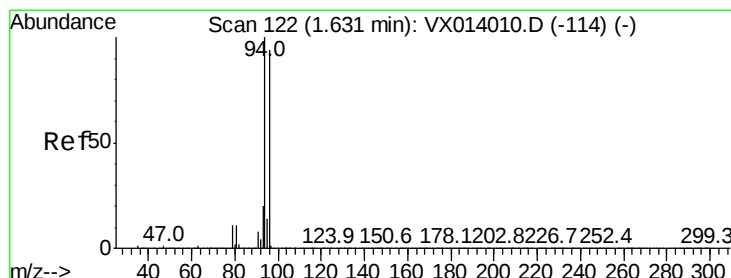
0

5.50 5.60 5.70 5.80

5.65



Time-->



#5

Bromomethane

Concen: 0.452 ug/l

RT: 1.65 min Scan# 125

Delta R.T. 0.02 min

Lab File: VX014085.D

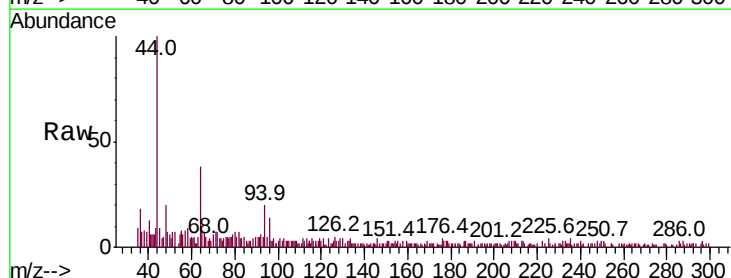
Acq: 18 Dec 2019 10:34

Tgt Ion: 94 Resp: 2329

Ion Ratio Lower Upper

94 100

96 53.4 75.2 112.8#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1200

1000

800

600

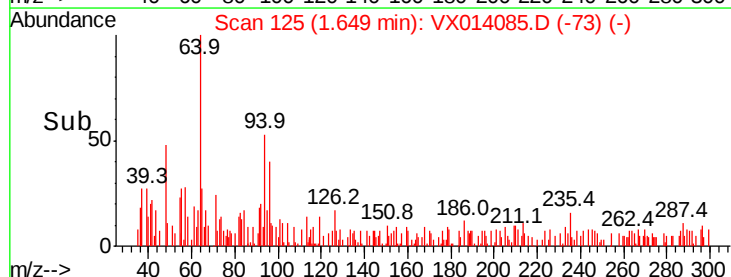
400

200

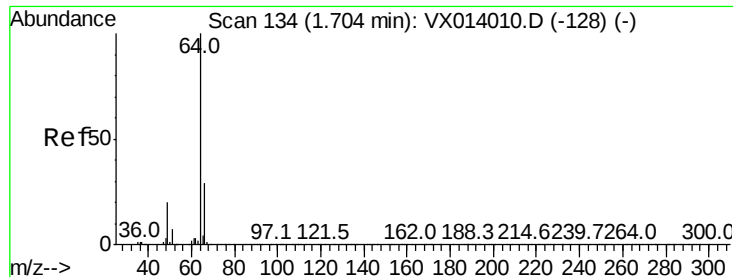
0

1.60 1.65 1.70

1.65



Time-->



#6

Chloroethane

Concen: 0.518 ug/l

RT: 1.64 min Scan# 124

Delta R.T. -0.06 min

Lab File: VX014085.D

Acq: 18 Dec 2019 10:34

Instrument :

MSVOA_X

ClientSampled :

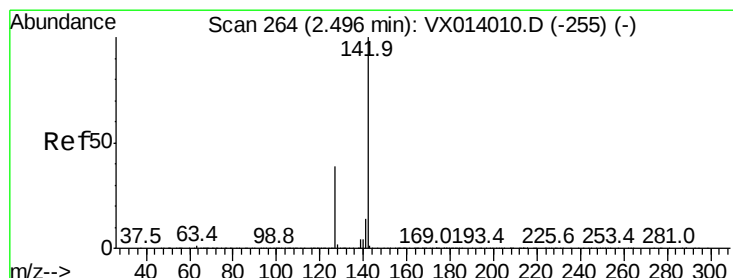
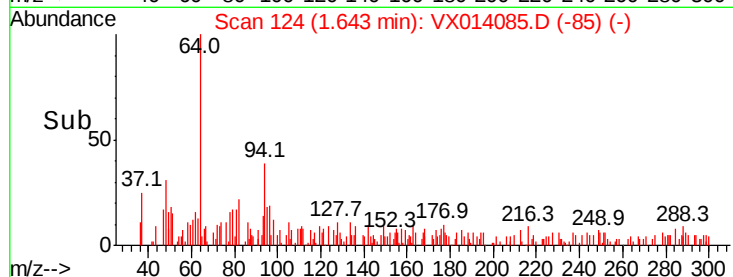
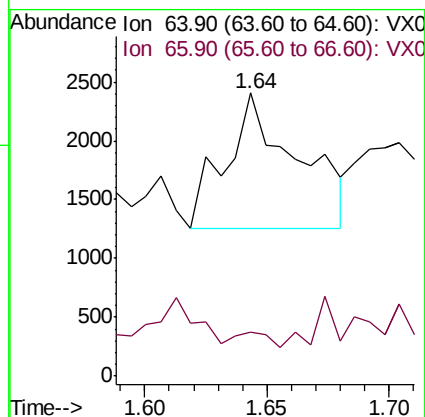
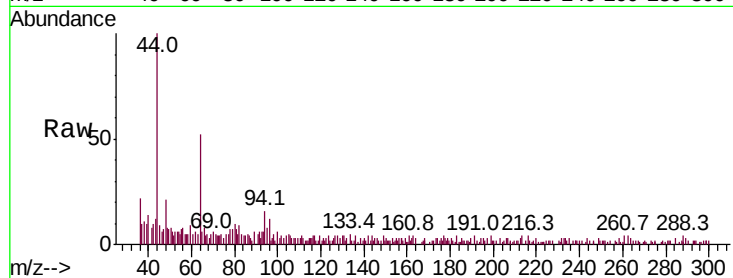
VX1218WBL01

Tot Ion: 64 Resp: 2322

Ion Ratio Lower Upper

64 100

66 5.9 23.4 35.2#



#10

Methyl Iodide

Concen: 2.854 ug/l

RT: 2.51 min Scan# 266

Delta R.T. 0.01 min

Lab File: VX014085.D

Acq: 18 Dec 2019 10:34

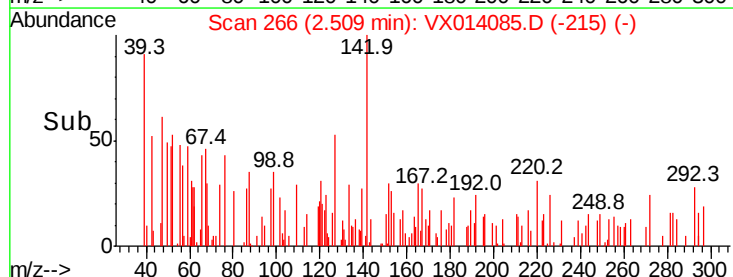
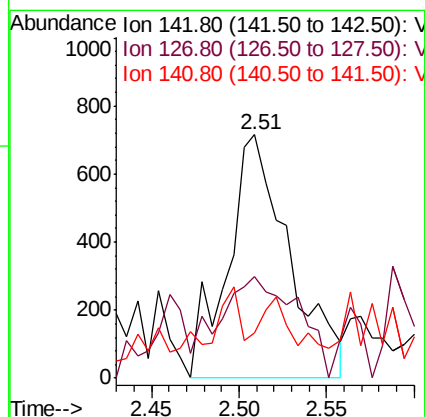
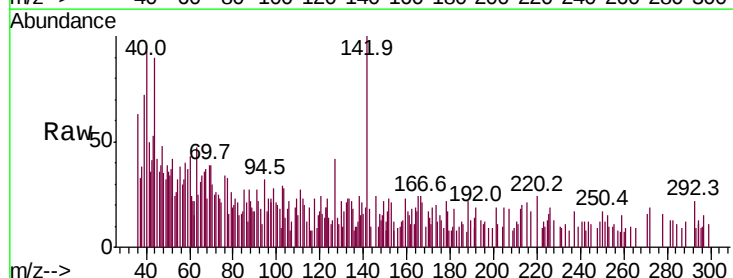
Tgt Ion: 142 Resp: 1761

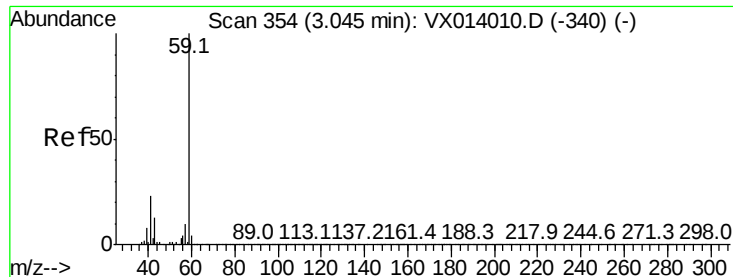
Ion Ratio Lower Upper

142 100

127 52.9 31.6 47.4#

141 10.2 11.6 17.4#



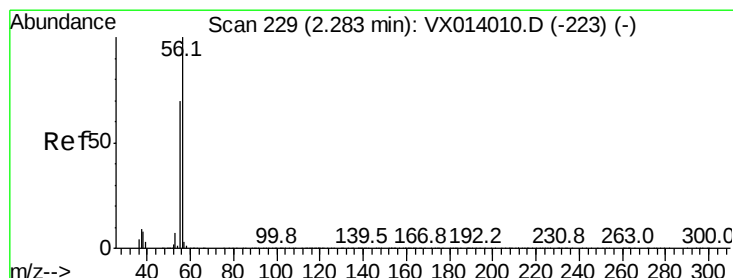
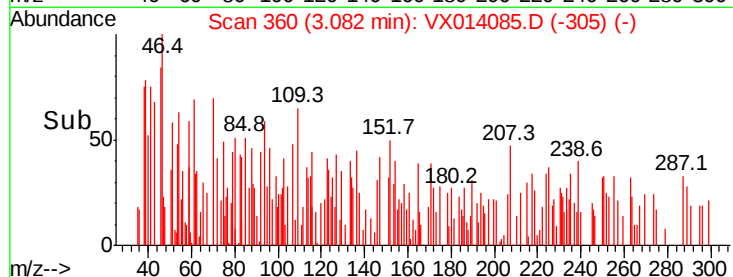
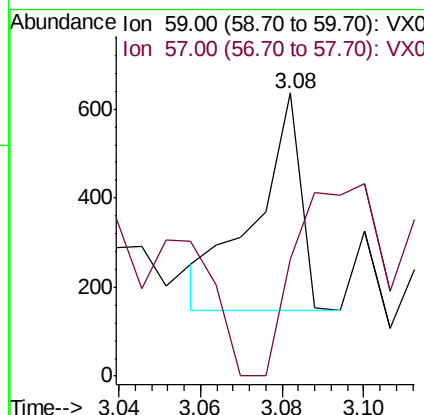
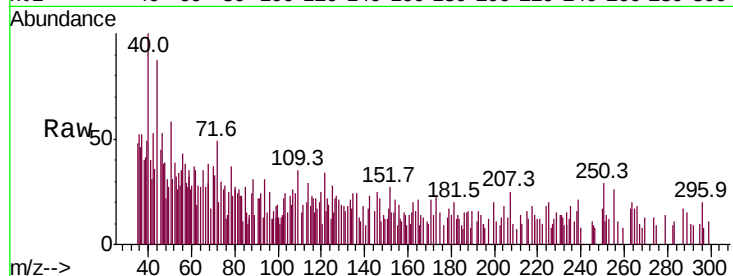


#11

Tert butyl alcohol
Concen: 0.269 ug/l
RT: 3.08 min Scan# 360
Delta R.T. 0.04 min
Lab File: VX014085.D
Acq: 18 Dec 2019 10:34

Instrument :
MSVOA_X
ClientSampleId :
VX1218WBL01

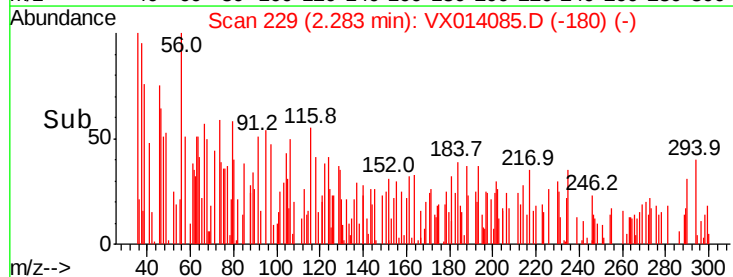
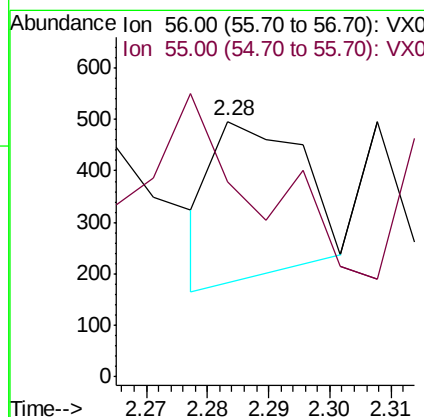
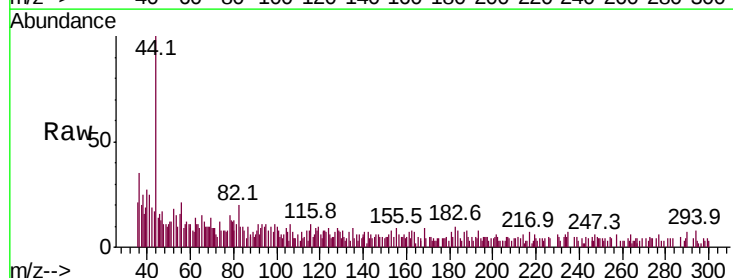
Tot Ion: 59 Resp: 378
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#

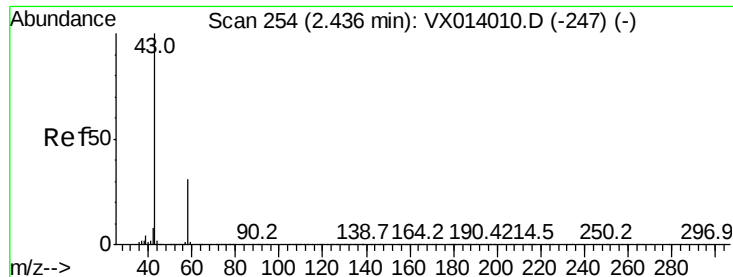


#13

Acrolein
Concen: 0.383 ug/l
RT: 2.28 min Scan# 229
Delta R.T. 0.00 min
Lab File: VX014085.D
Acq: 18 Dec 2019 10:34

Tgt Ion: 56 Resp: 308
Ion Ratio Lower Upper
56 100
55 275.6 56.9 85.3#





#16

Acetone

Concen: 2.134 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX014085.D

Acq: 18 Dec 2019 10:34

Instrument :

MSVOA_X

ClientSampleId :

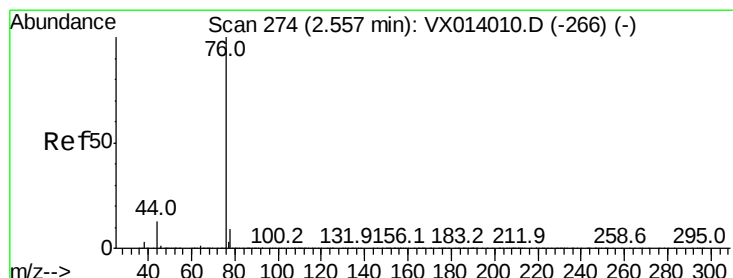
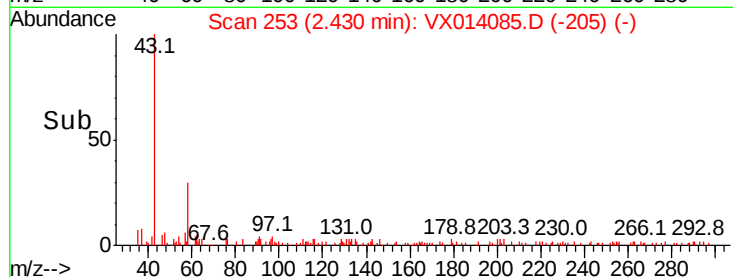
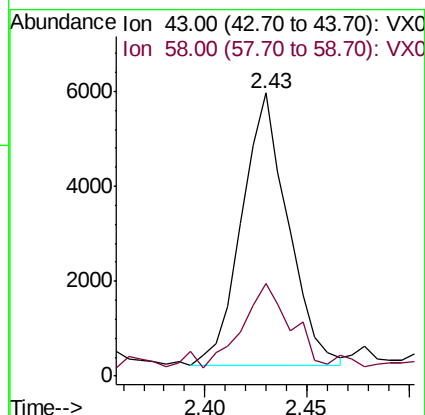
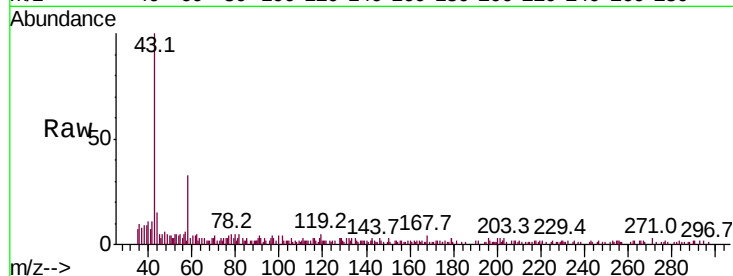
VX1218WBL01

Tot Ion: 43 Resp: 9005

Ion Ratio Lower Upper

43 100

58 26.3 24.9 37.3



#17

Carbon Disulfide

Concen: 0.982 ug/l

RT: 2.56 min Scan# 274

Delta R.T. 0.00 min

Lab File: VX014085.D

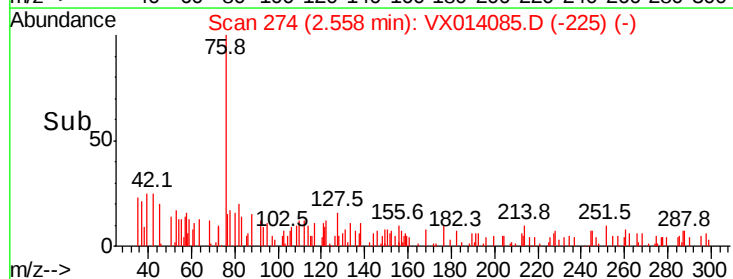
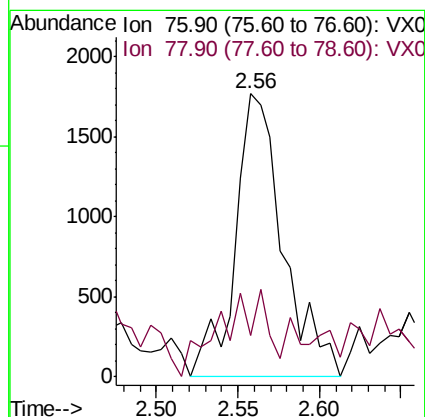
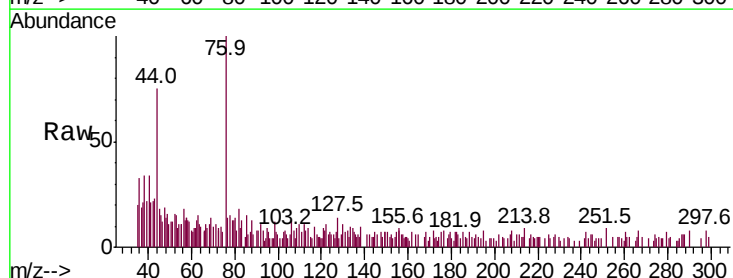
Acq: 18 Dec 2019 10:34

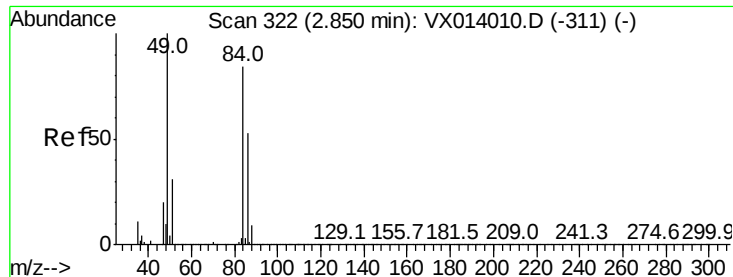
Tgt Ion: 76 Resp: 3610

Ion Ratio Lower Upper

76 100

78 7.6 7.2 10.8

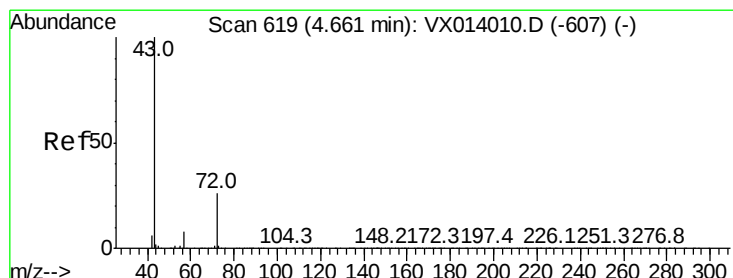
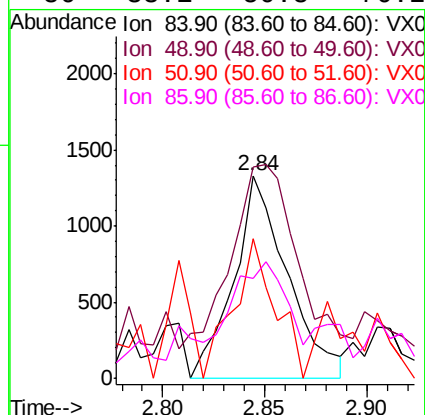
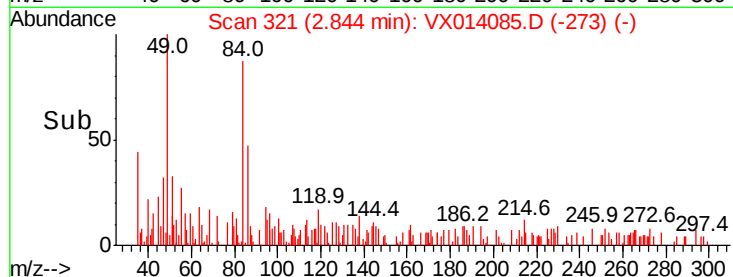
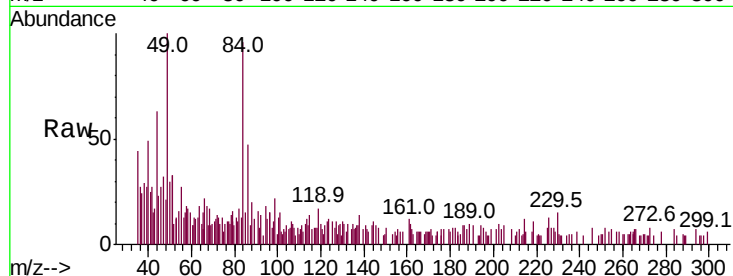




#20
Methvlene Chloride
Concen: 0.365 ug/l
RT: 2.84 min Scan# 321
Delta R.T. -0.01 min
Lab File: VX014085.D
Acq: 18 Dec 2019 10:34

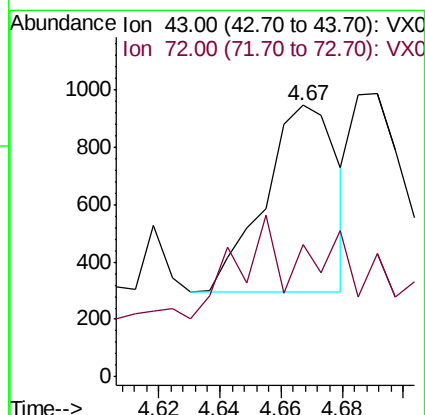
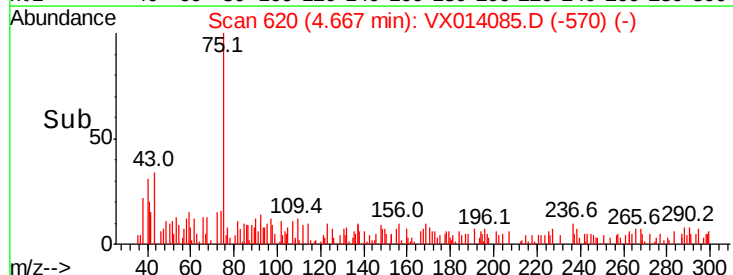
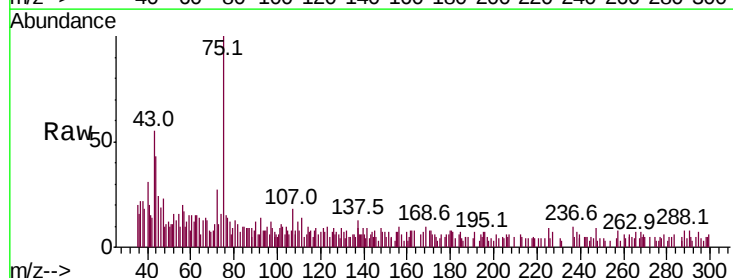
Instrument :
MSVOA_X
ClientSampleId :
VX1218WBL01

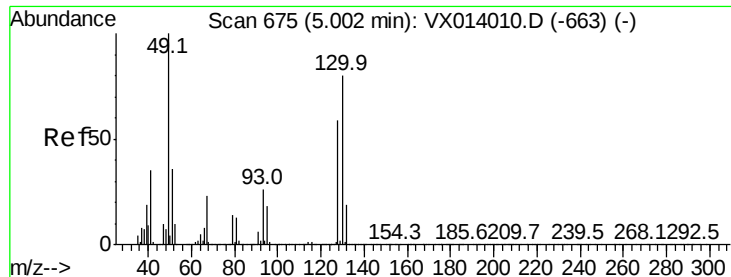
Tot Ion: 84 Resp: 2426
Ion Ratio Lower Upper
84 100
49 92.3 95.8 143.6#
51 55.4 29.8 44.8#
86 33.1 50.8 76.2#



#25
2-Butanone
Concen: 0.205 ug/l
RT: 4.67 min Scan# 620
Delta R.T. 0.01 min
Lab File: VX014085.D
Acq: 18 Dec 2019 10:34

Tgt Ion: 43 Resp: 1067
Ion Ratio Lower Upper
43 100
72 24.2 21.0 31.4





#28

Bromochloromethane

Concen: 0.496 ug/l

RT: 4.98 min Scan# 671

Delta R.T. -0.02 min

Lab File: VX014085.D

Acq: 18 Dec 2019 10:34

Instrument :

MSVOA_X

ClientSampleId :

VX1218WBL01

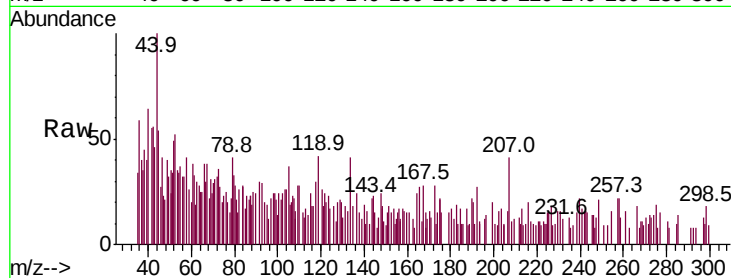
Tot Ion: 49 Resp: 178

Ion Ratio Lower Upper

49 100

129 146.6 0.0 5.0#

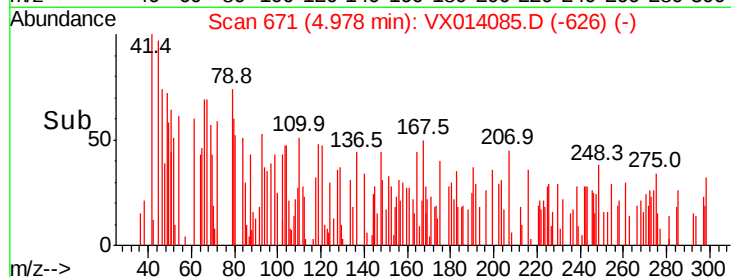
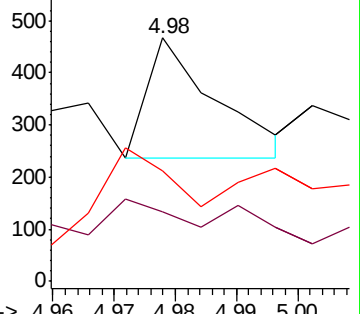
130 95.5 64.6 97.0



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



#33

1,2-Dichloroethane-d4

Concen: 50.194 ug/l

RT: 6.04 min Scan# 846

Delta R.T. -0.01 min

Lab File: VX014085.D

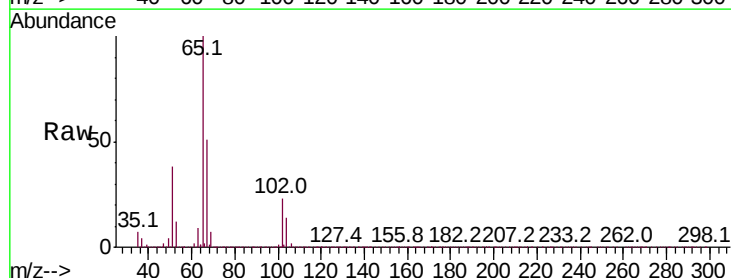
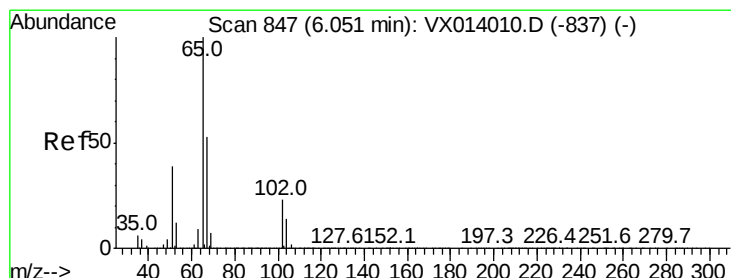
Acq: 18 Dec 2019 10:34

Tgt Ion: 65 Resp: 326206

Ion Ratio Lower Upper

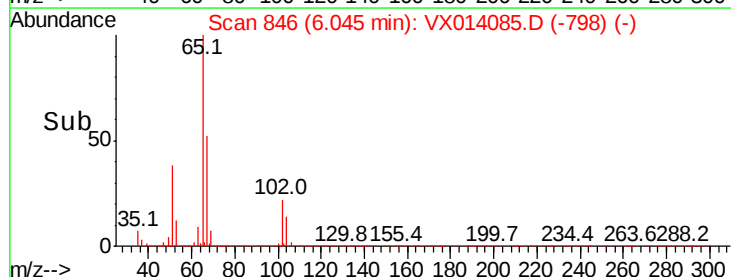
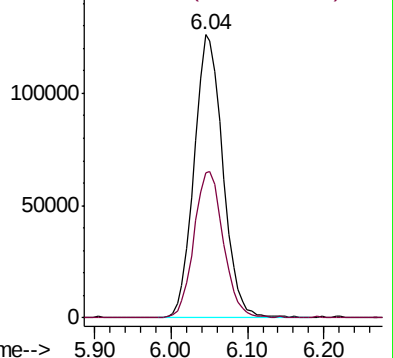
65 100

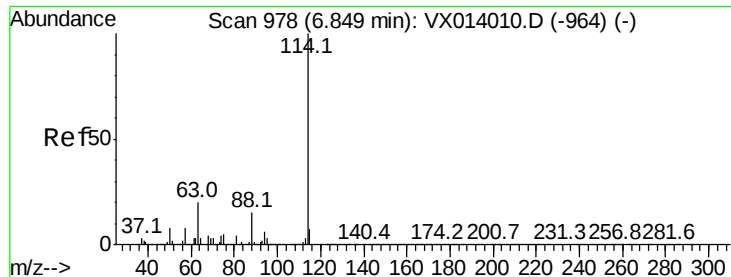
67 52.3 0.0 106.4



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: VX014085.D

Acq: 18 Dec 2019 10:34

Instrument :

MSVOA_X

ClientSampleId :

VX1218WBL01

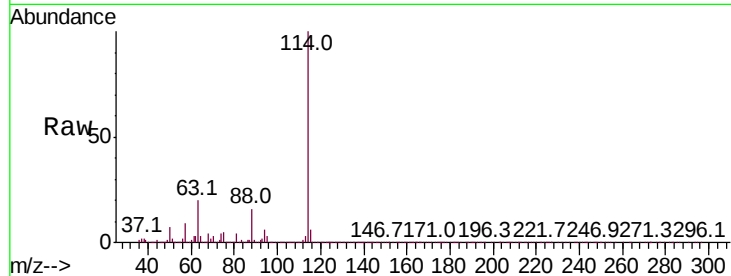
Tot Ion:114 Resp: 892568

Ion Ratio Lower Upper

114 100

63 19.7 0.0 40.8

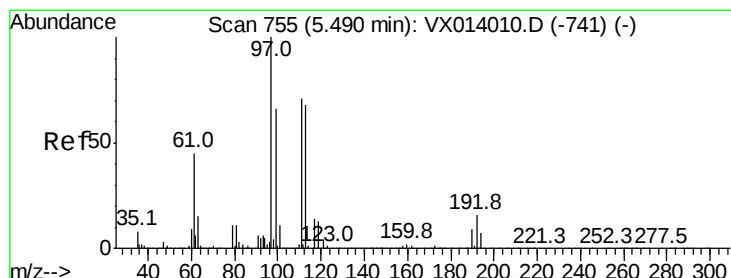
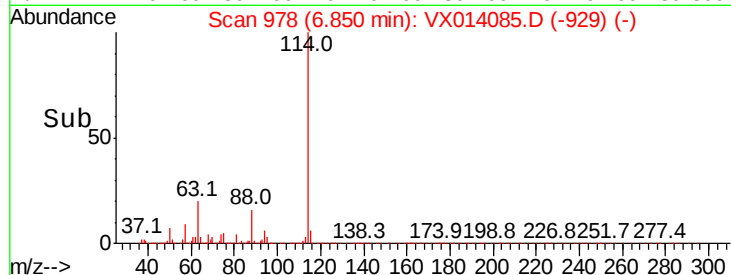
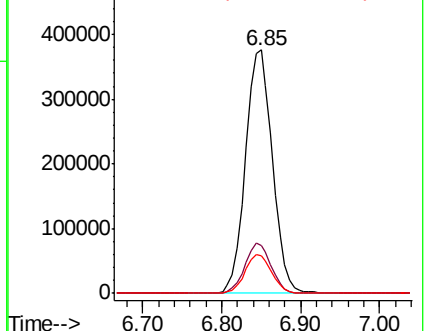
88 15.7 0.0 30.4



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: 49.602 ug/l

RT: 5.48 min Scan# 754

Delta R.T. -0.01 min

Lab File: VX014085.D

Acq: 18 Dec 2019 10:34

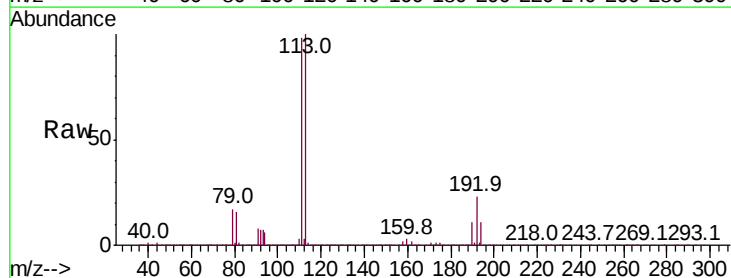
Tgt Ion:113 Resp: 269131

Ion Ratio Lower Upper

113 100

111 102.6 82.0 123.0

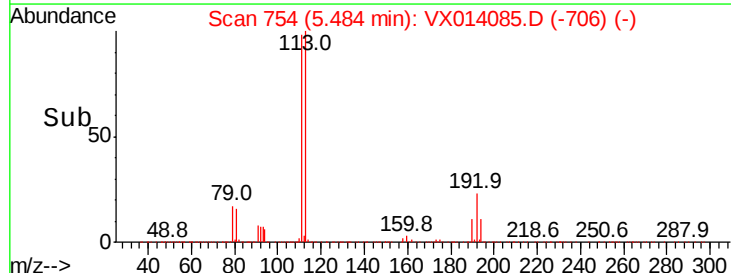
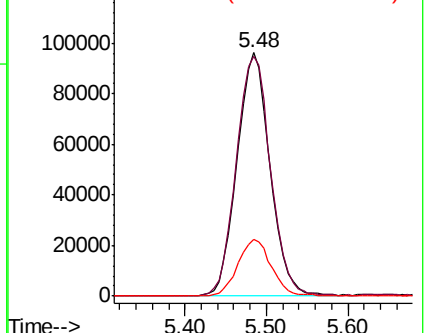
192 23.6 19.3 28.9

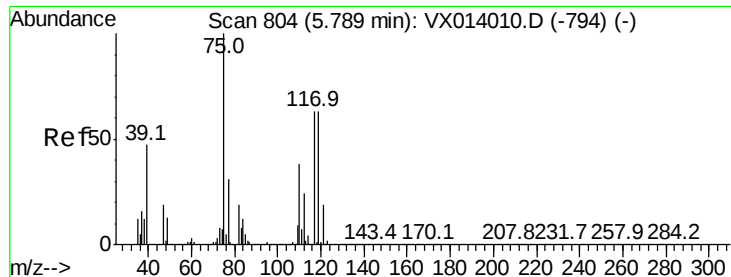


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

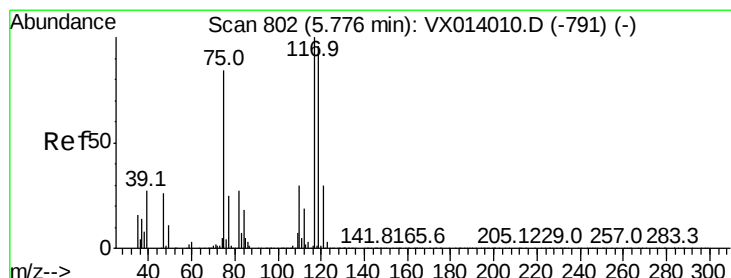
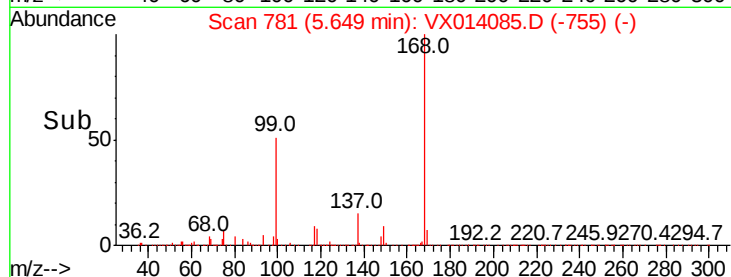
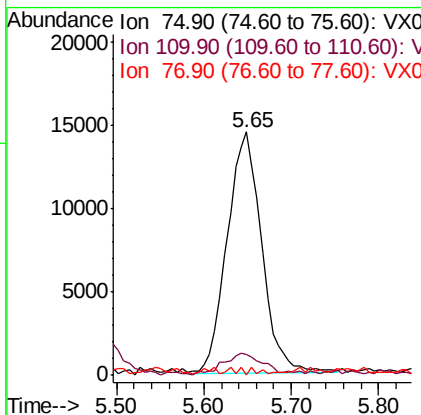
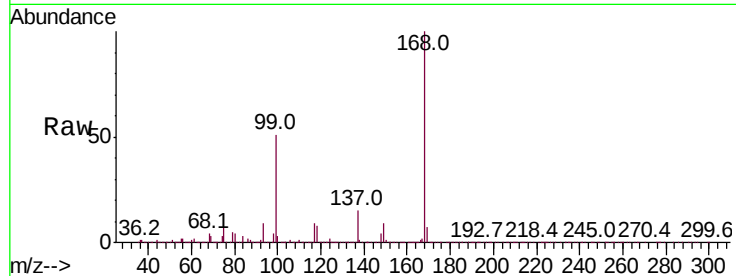




#36
 1,1-Dichloropropene
 Concen: 4.858 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.14 min
 Lab File: VX014085.D
 Acq: 18 Dec 2019 10:34

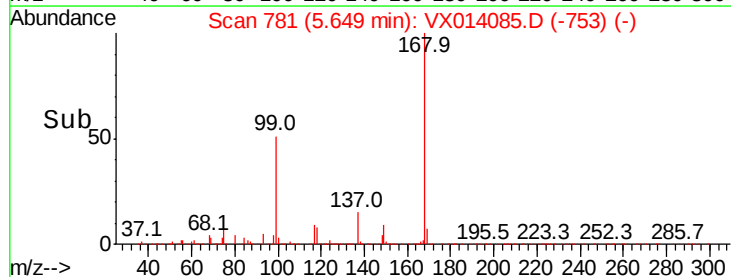
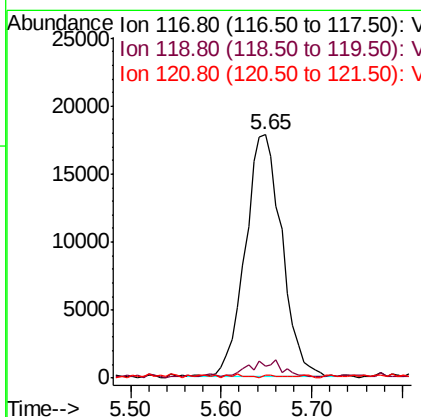
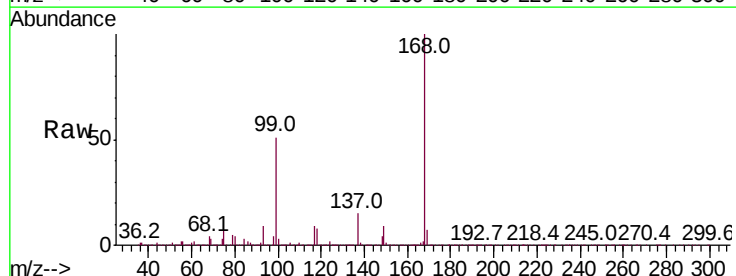
Instrument :
 MSVOA_X
 ClientSampleId :
 VX1218WBL01

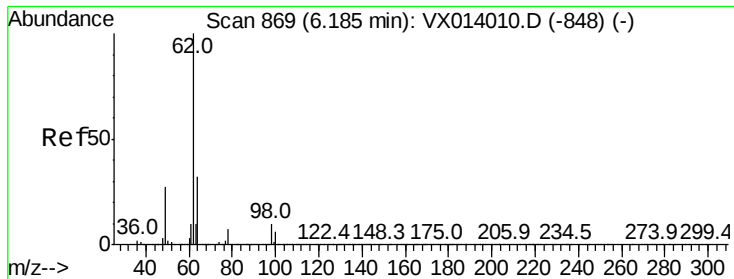
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.5	18.3	54.9#
77	1.2	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 6.641 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.13 min
 Lab File: VX014085.D
 Acq: 18 Dec 2019 10:34

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.2	76.2	114.4#
121	0.3	23.6	35.4#





#42

1,2-Dichloroethane

Concen: 0.234 ug/l

RT: 6.17 min Scan# 867

Delta R.T. -0.01 min

Lab File: VX014085.D

Acq: 18 Dec 2019 10:34

Instrument :

MSVOA_X

ClientSampleId :

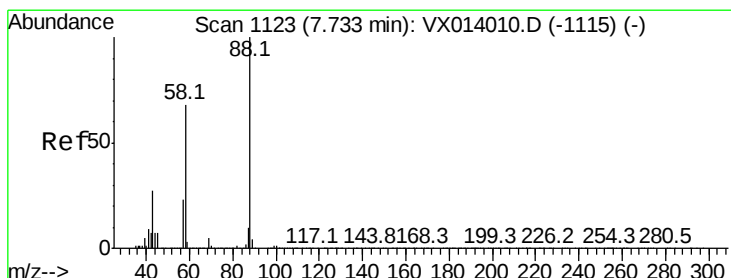
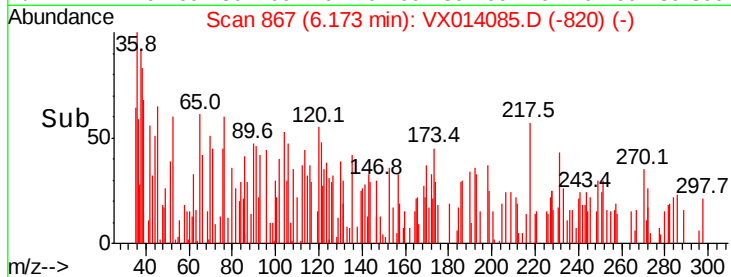
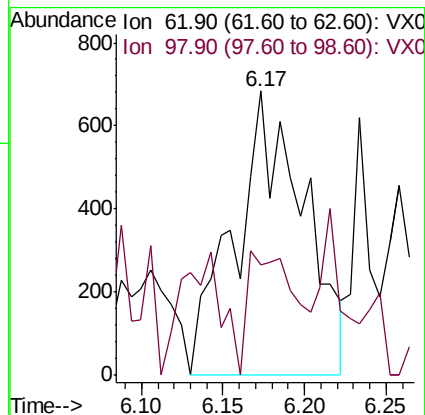
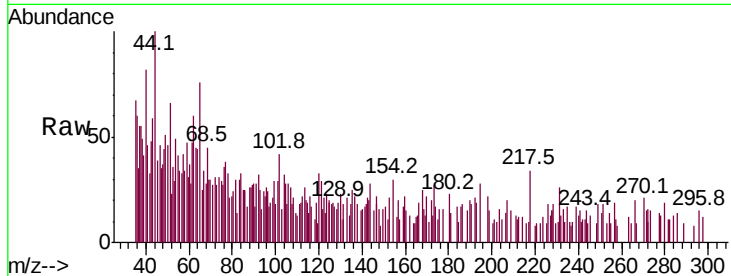
VX1218WBL01

Tot Ion: 62 Resp: 2002

Ion Ratio Lower Upper

62 100

98 29.9 0.0 21.0#



#49

1,4-Dioxane

Concen: 3.386 ug/l

RT: 7.73 min Scan# 1123

Delta R.T. 0.00 min

Lab File: VX014085.D

Acq: 18 Dec 2019 10:34

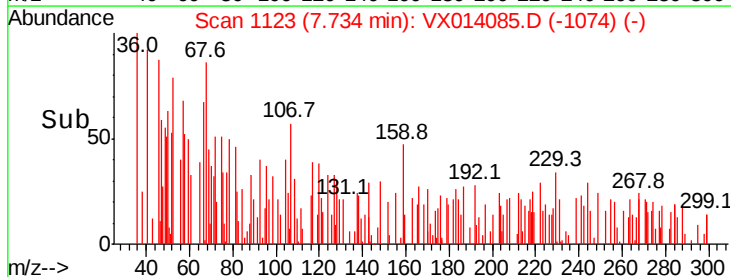
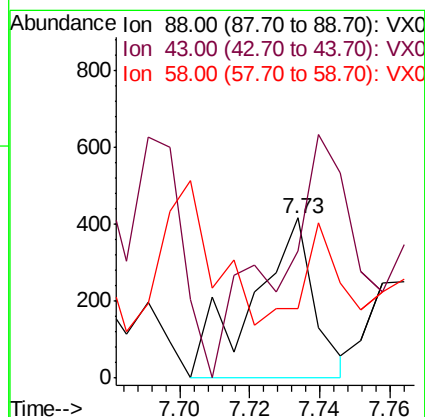
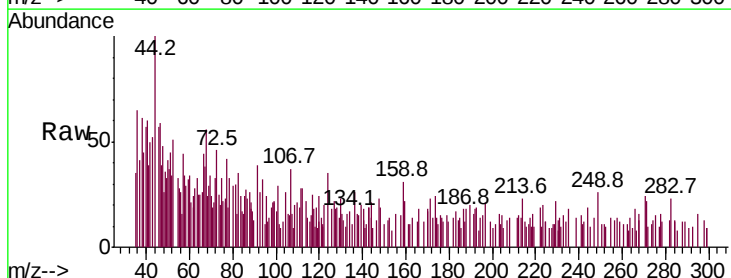
Tgt Ion: 88 Resp: 505

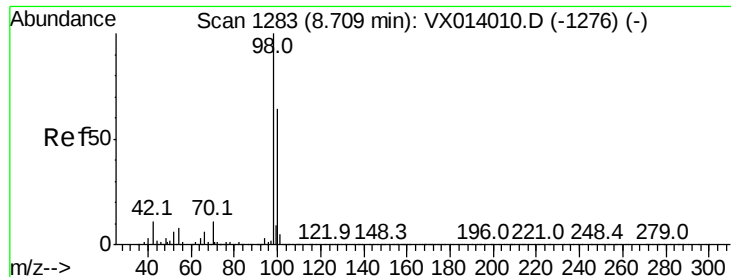
Ion Ratio Lower Upper

88 100

43 202.0 26.5 39.7#

58 30.1 56.8 85.2#





#50

Toluene-d8

Concen: 49.806 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014085.D

Acq: 18 Dec 2019 10:34

Instrument :

MSVOA_X

ClientSampleId :

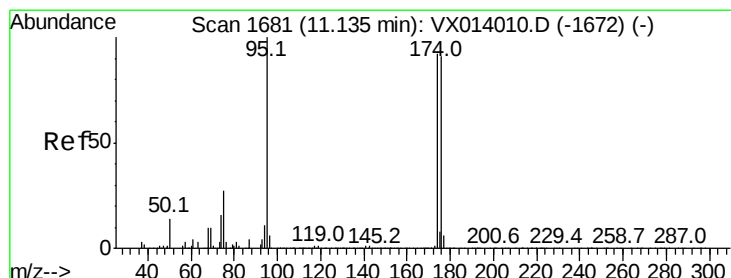
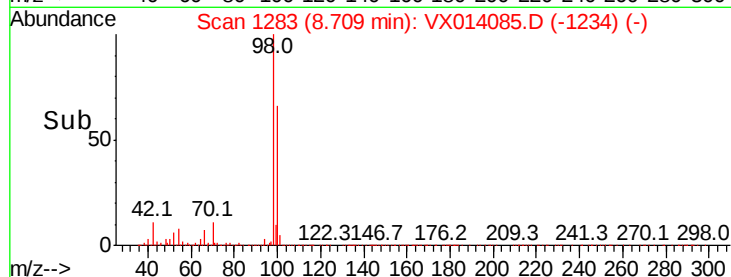
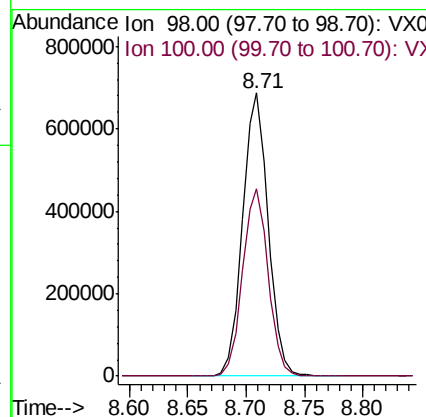
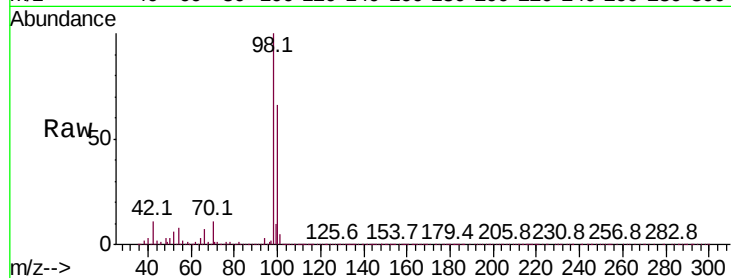
VX1218WBL01

Tot Ion: 98 Resp: 1052115

Ion Ratio Lower Upper

98 100

100 66.1 52.9 79.3



#62

4-Bromofluorobenzene

Concen: 45.153 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.01 min

Lab File: VX014085.D

Acq: 18 Dec 2019 10:34

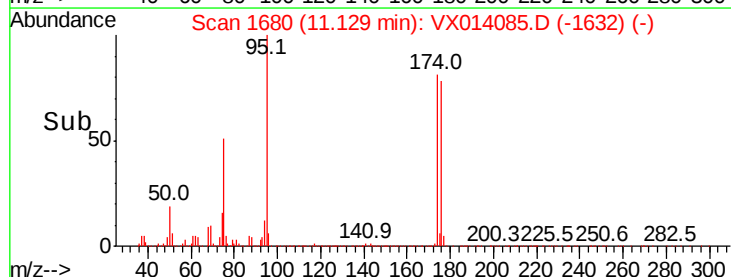
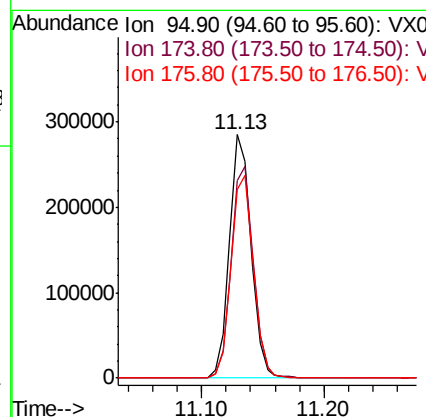
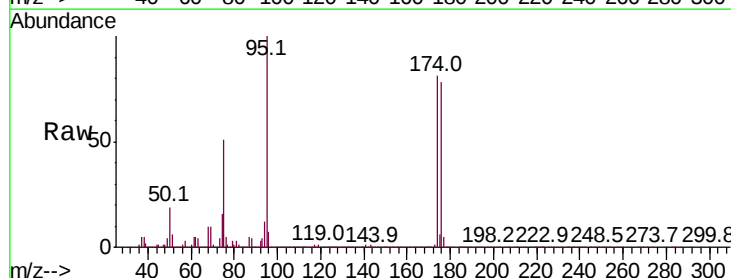
Tgt Ion: 95 Resp: 348662

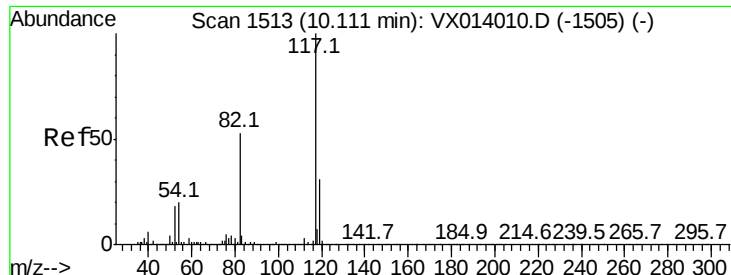
Ion Ratio Lower Upper

95 100

174 88.8 0.0 175.8

176 85.8 0.0 173.0

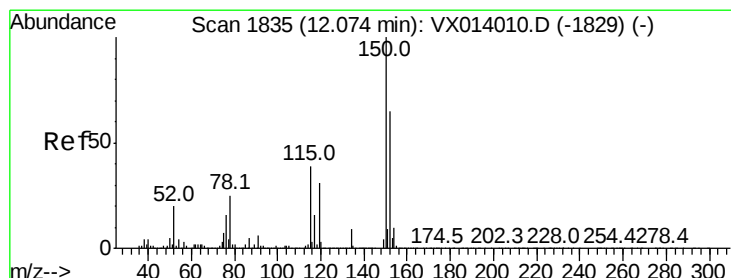
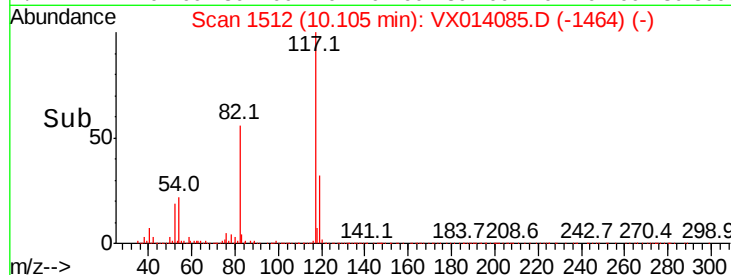
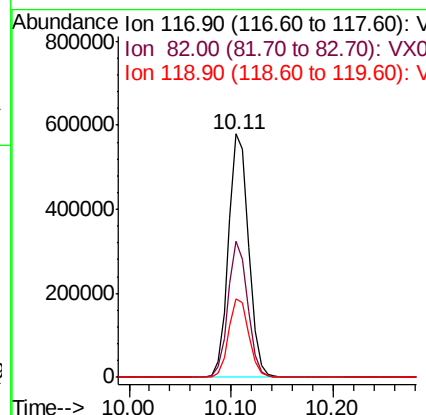
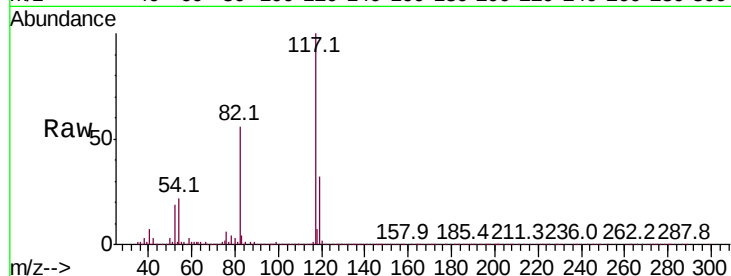




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1512
Delta R.T. -0.01 min
Lab File: VX014085.D
Acq: 18 Dec 2019 10:34

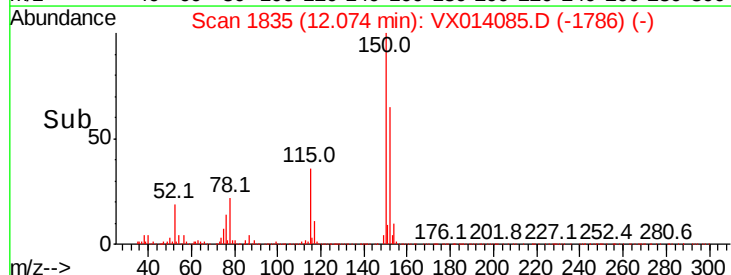
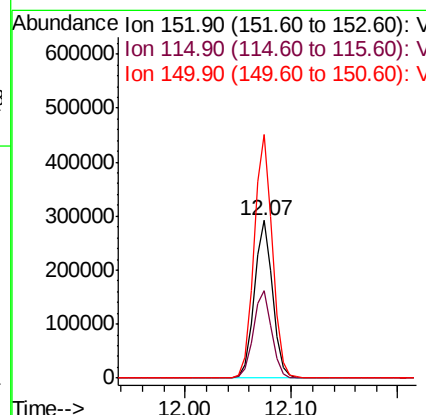
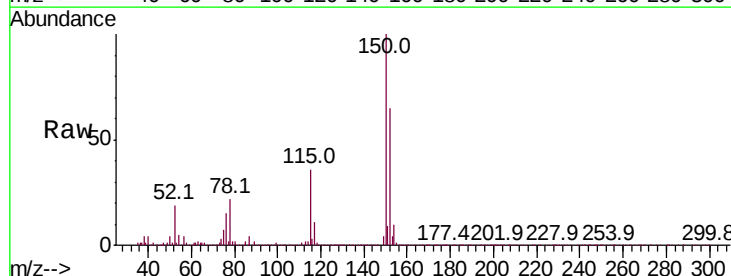
Instrument :
MSVOA_X
ClientSampleId :
VX1218WBL01

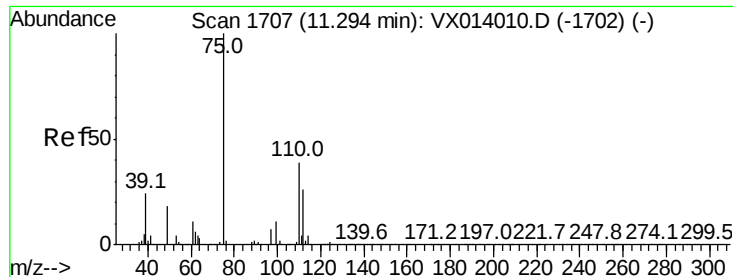
Tot Ion	Ratio	Lower	Upper
117	100		
82	55.7	42.2	63.4
119	32.2	25.1	37.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX014085.D
Acq: 18 Dec 2019 10:34

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.4	38.3	114.9
150	156.0	0.0	345.4

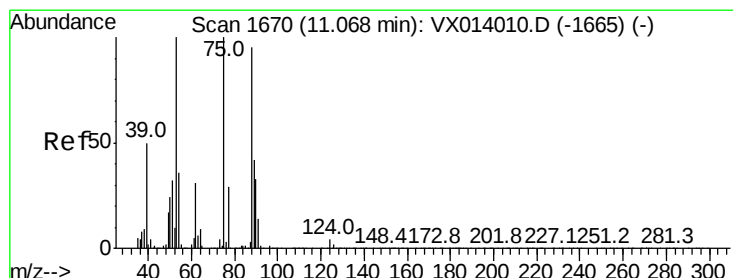
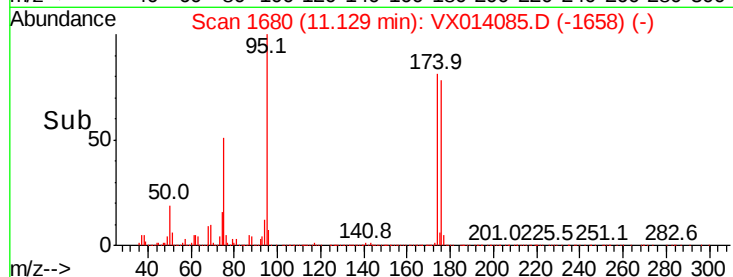
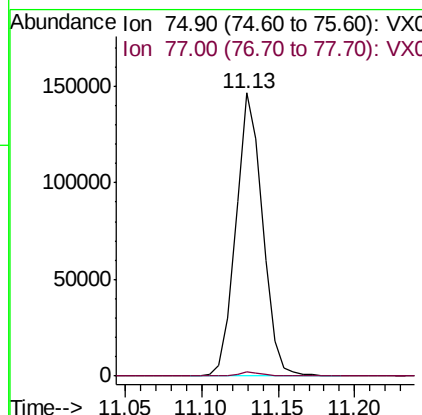
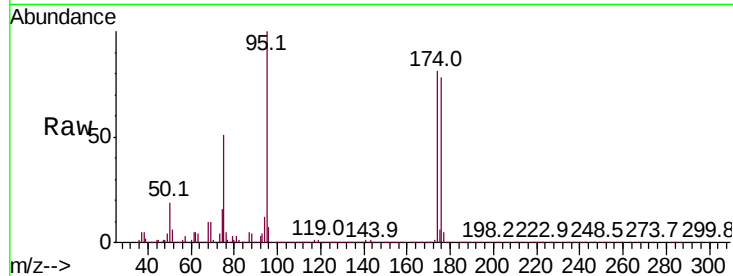




#76
 1,2,3-Trichloropropane
 Concen: 23.374 ug/l
 RT: 11.13 min Scan# 1680
 Delta R.T. -0.16 min
 Lab File: VX014085.D
 Acq: 18 Dec 2019 10:34

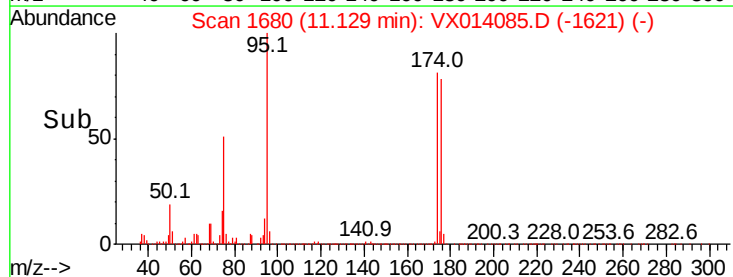
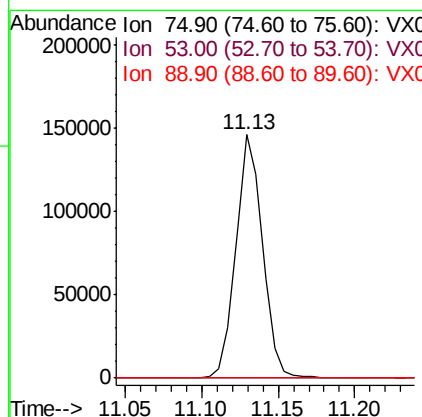
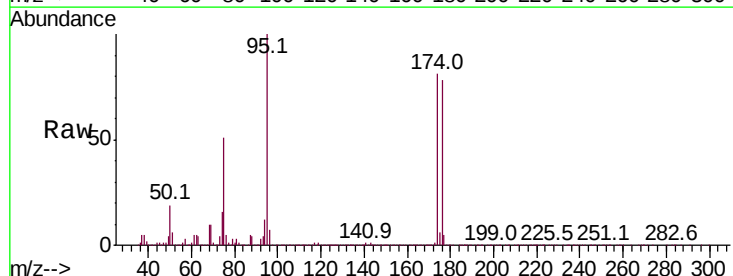
Instrument :
 MSVOA_X
 ClientSampleId :
 VX1218WBL01

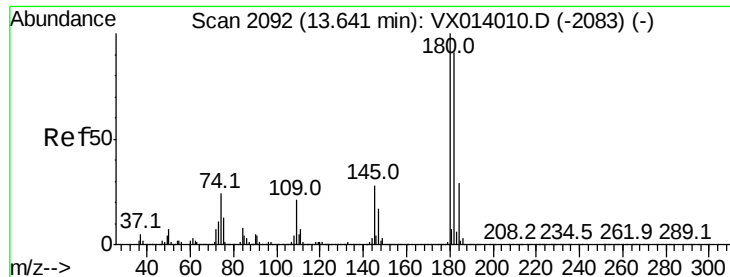
Tot Ion: 75 Resp: 176069
 Ion Ratio Lower Upper
 75 100
 77 1.5 19.3 57.8#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 65.974 ug/l
 RT: 11.13 min Scan# 1680
 Delta R.T. 0.06 min
 Lab File: VX014085.D
 Acq: 18 Dec 2019 10:34

Tgt Ion: 75 Resp: 176069
 Ion Ratio Lower Upper
 75 100
 53 0.3 76.7 115.1#
 89 0.2 34.6 51.8#





#93

1,2,4-Trichlorobenzene

Concen: 0.249 ug/l

RT: 13.65 min Scan# 2093

Delta R.T. 0.01 min

Lab File: VX014085.D

Acq: 18 Dec 2019 10:34

Instrument :

MSVOA_X

ClientSampleId :

VX1218WBL01

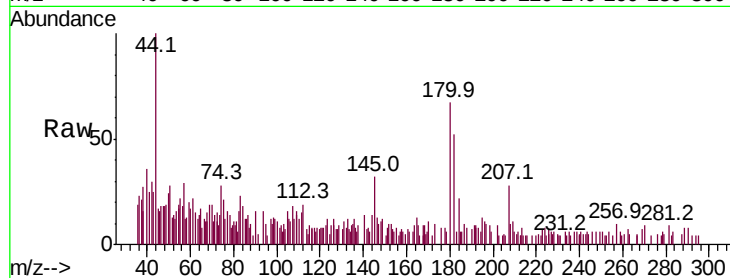
Tot Ion:180 Resp: 1916

Ion Ratio Lower Upper

180 100

182 78.8 46.6 139.8

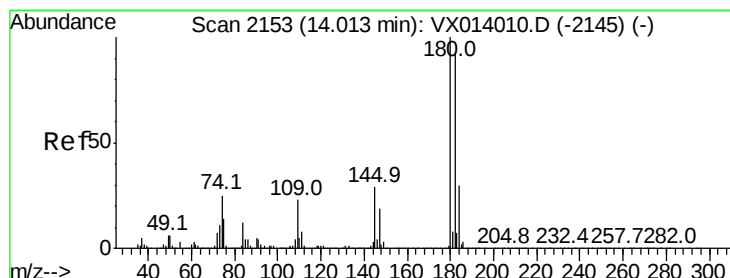
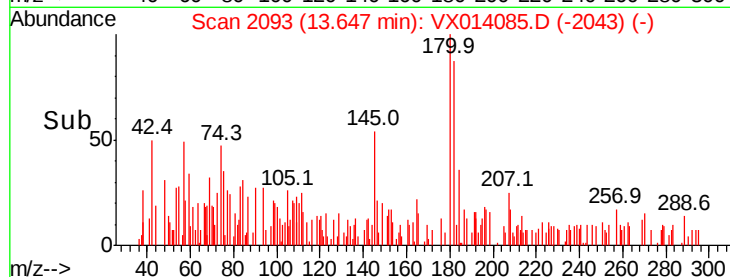
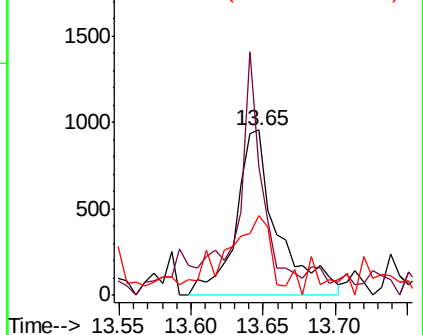
145 40.7 14.2 42.6



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: 0.234 ug/l

RT: 14.02 min Scan# 2154

Delta R.T. 0.01 min

Lab File: VX014085.D

Acq: 18 Dec 2019 10:34

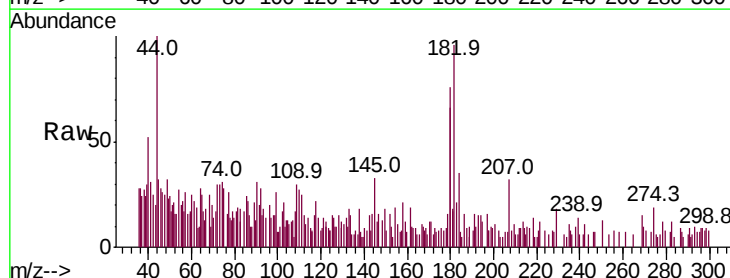
Tgt Ion:180 Resp: 1778

Ion Ratio Lower Upper

180 100

182 90.7 46.8 140.3

145 44.7 14.8 44.4#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

