

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX011720\
 Data File : VX014653.D
 Acq On : 17 Jan 2020 14:34
 Operator : JC/SP
 Sample : L1162-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jan 18 05:07:53 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X010720W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 07 15:54:41 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	443276	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	701074	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	631238	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	282007	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	259930	52.53	ug/l	0.00
Spiked Amount			Recovery	=	105.06%	
35) Dibromofluoromethane	5.49	113	215155	50.70	ug/l	0.00
Spiked Amount			Recovery	=	101.40%	
50) Toluene-d8	8.71	98	826333	50.17	ug/l	0.00
Spiked Amount			Recovery	=	100.34%	
62) 4-Bromofluorobenzene	11.13	95	277878	45.96	ug/l	0.00
Spiked Amount			Recovery	=	91.92%	

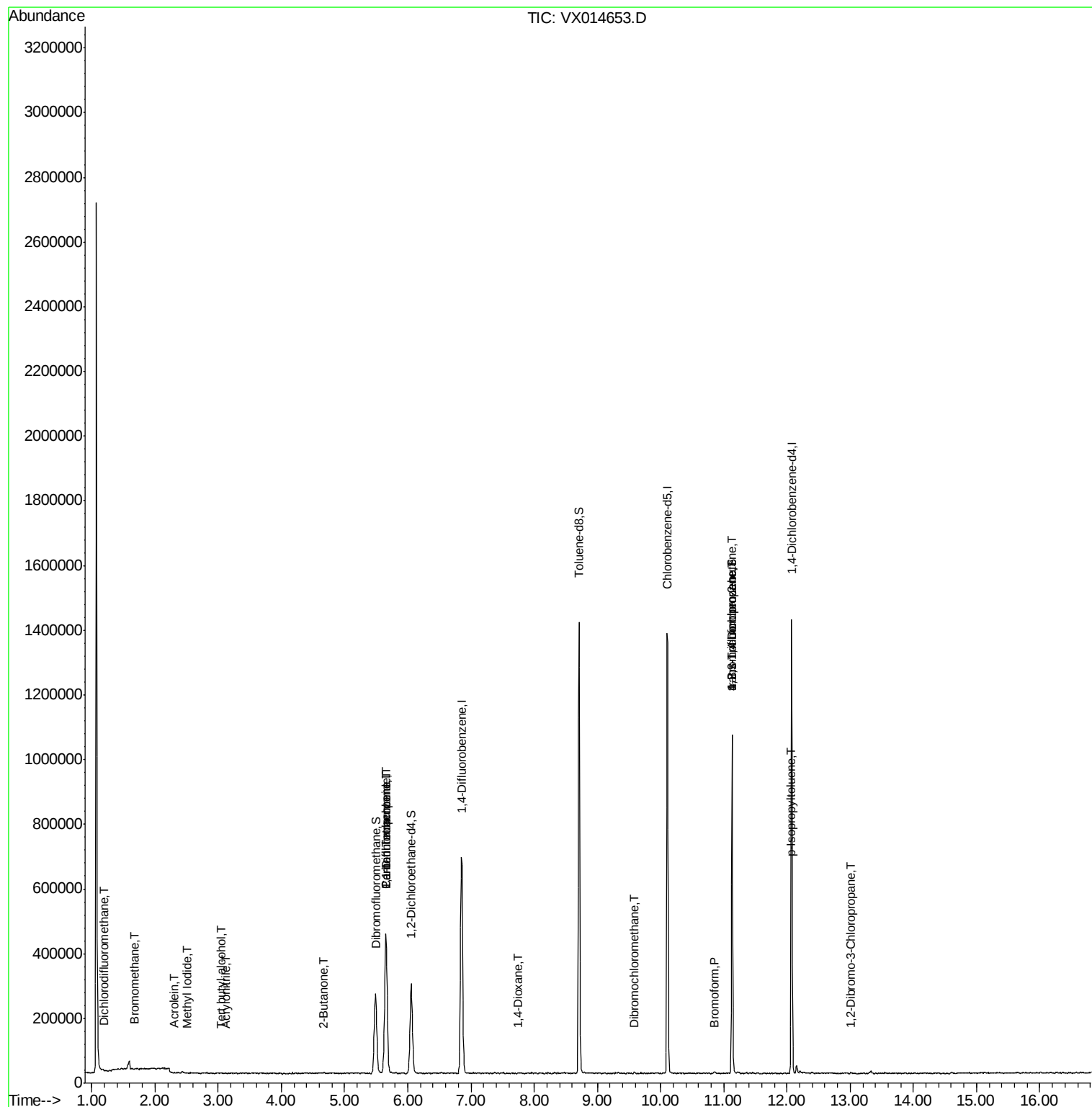
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	404	0.326	ug/l #	61
5) Bromomethane	1.66	94	1857	0.445	ug/l #	17
6) Chloroethane	1.71	64	332	Below Cal	#	43
10) Methyl Iodide	2.51	142	1275	0.245	ug/l #	95
11) Tert butyl alcohol	3.03	59	452	0.437	ug/l #	72
13) Acrolein	2.31	56	780	0.942	ug/l #	15
15) Acrylonitrile	3.11	53	761	0.305	ug/l #	6
16) Acetone	2.43	43	4188	Below Cal	#	78
25) 2-Butanone	4.66	43	778	0.210	ug/l #	49
36) 1,1-Dichloropropene	5.65	75	32312	4.901	ug/l #	50
38) Carbon Tetrachloride	5.65	117	39434	6.500	ug/l #	16
49) 1,4-Dioxane	7.74	88	609	5.187	ug/l #	33
60) Dibromochloromethane	9.58	129	2030	0.401	ug/l	93
71) Bromoform	10.85	173	2083	0.521	ug/l #	98
76) 1,2,3-Trichloropropane	11.13	75	135411	23.208	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	135411	61.356	ug/l #	12
86) p-Isopropyltoluene	12.06	119	7191	0.401	ug/l #	76
88) 1,4-Dichlorobenzene	12.09	146	854	Below Cal	#	1
92) 1,2-Dibromo-3-Chloropropan	13.01	75	309	0.216	ug/l	57
96) 1,2,3-Trichlorobenzene	13.87	180	190	Below Cal		85

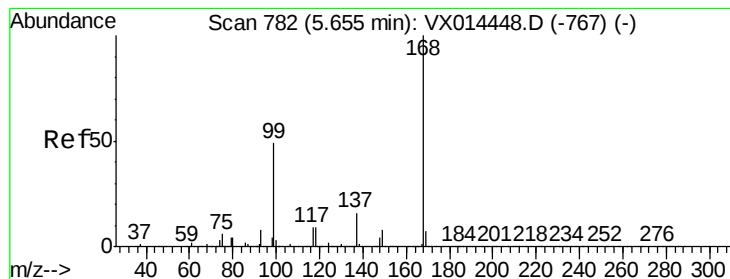
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX011720\
Data File : VX014653.D
Acq On : 17 Jan 2020 14:34
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ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :

Quant Time: Jan 18 05:07:53 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X010720W.M
Quant Title : SW846 8260
QLast Update : Tue Jan 07 15:54:41 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.00 min

Lab File: VX014653.D

Acq: 17 Jan 2020 14:34

Instrument :

MSVOA_X

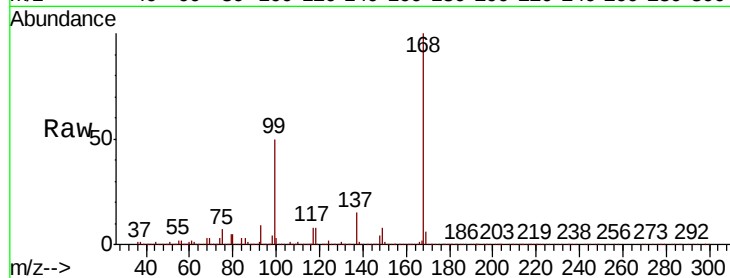
ClientSampleId :

Tot Ion:168 Resp: 443276

Ion Ratio Lower Upper

168 100

99 50.3 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

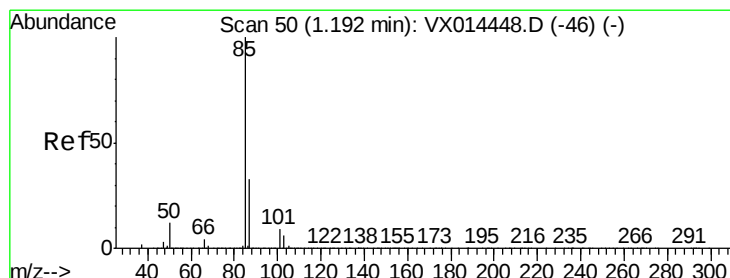
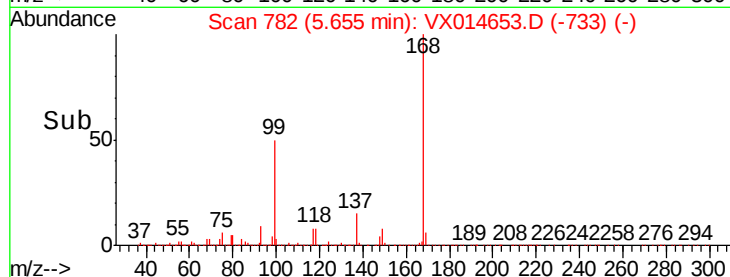
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.326 ug/l

RT: 1.19 min Scan# 50

Delta R.T. 0.00 min

Lab File: VX014653.D

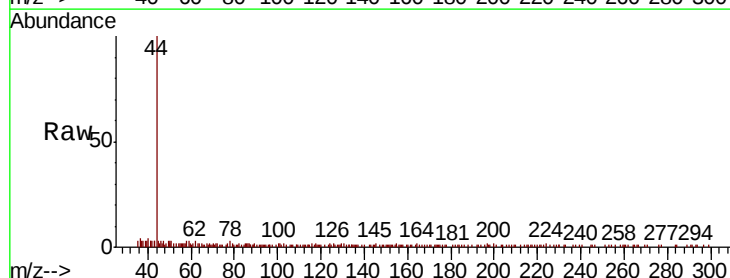
Acq: 17 Jan 2020 14:34

Tgt Ion: 85 Resp: 404

Ion Ratio Lower Upper

85 100

87 55.2 16.5 49.5#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

500

400

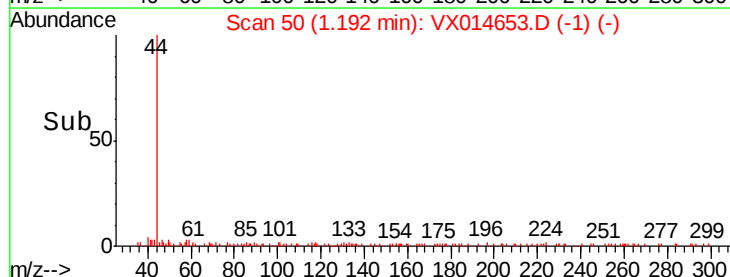
300

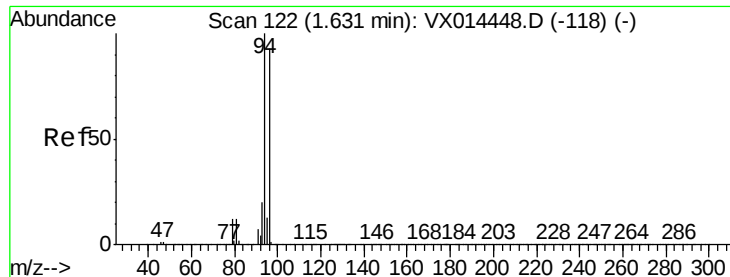
200

100

0

Time-->





#5

Bromomethane

Concen: 0.445 ug/l

RT: 1.66 min Scan# 127

Delta R.T. 0.03 min

Lab File: VX014653.D

Acq: 17 Jan 2020 14:34

Instrument :

MSVOA_X

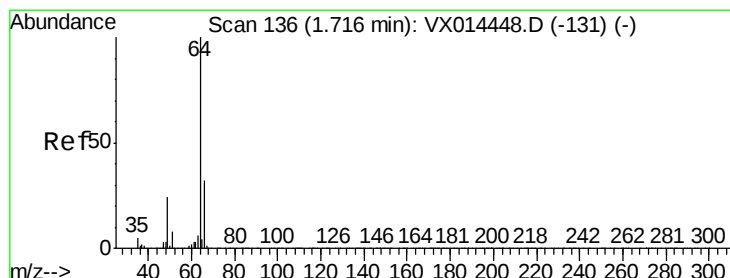
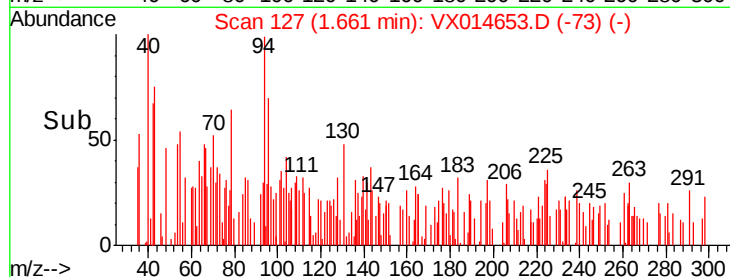
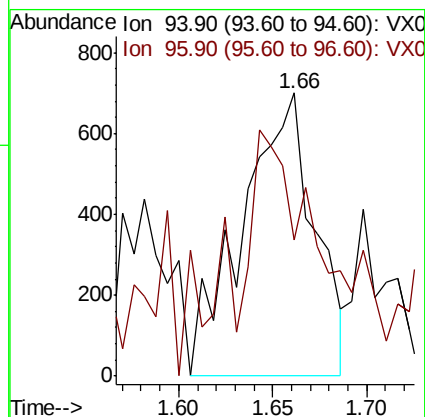
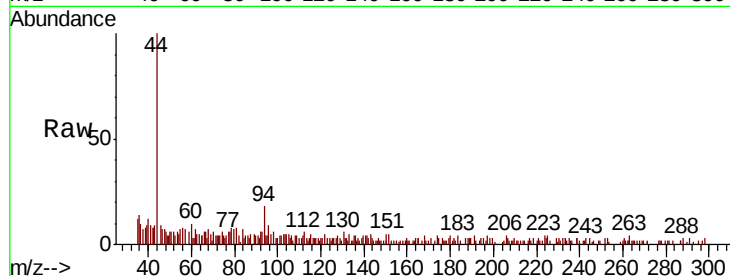
ClientSampled :

Tot Ion: 94 Resp: 1857

Ion Ratio Lower Upper

94 100

96 13.0 74.2 111.2#



#6

Chloroethane

Concen: Below Cal

RT: 1.71 min Scan# 135

Delta R.T. -0.01 min

Lab File: VX014653.D

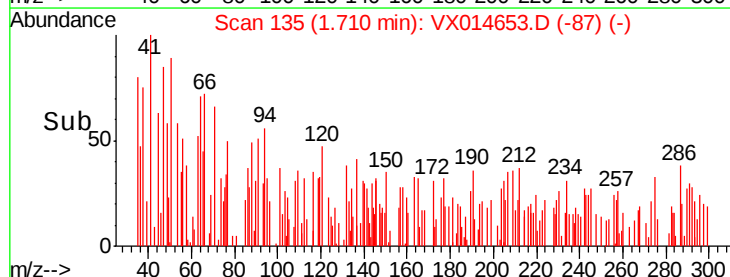
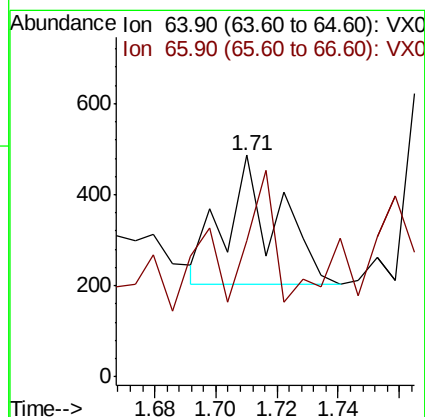
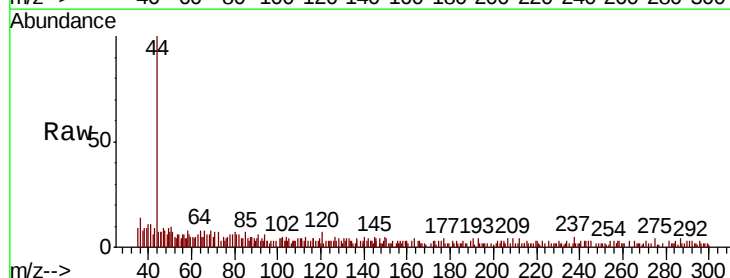
Acq: 17 Jan 2020 14:34

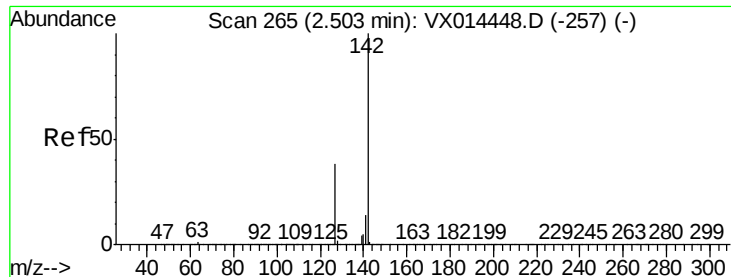
Tgt Ion: 64 Resp: 332

Ion Ratio Lower Upper

64 100

66 0.0 25.3 37.9#

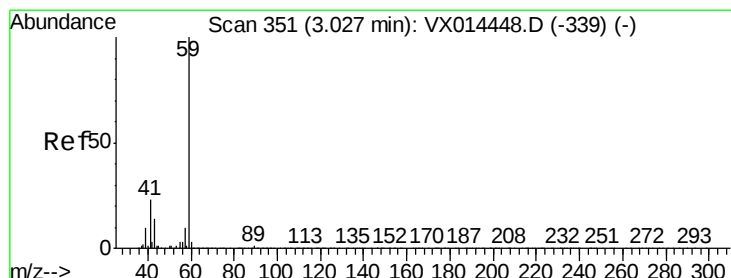
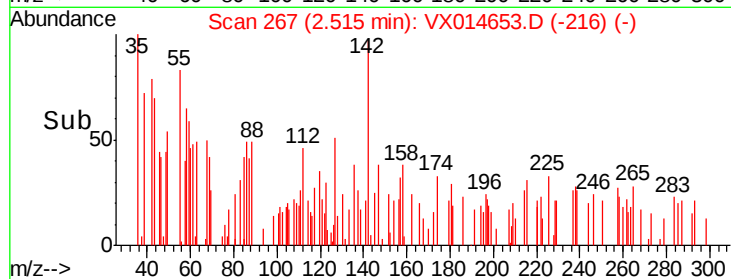
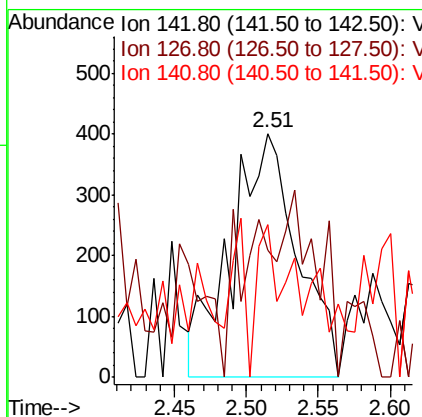
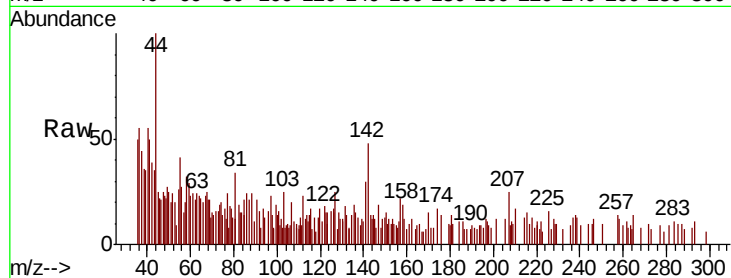




#10
Methvl Iodide
Concen: 0.245 ug/l
RT: 2.51 min Scan# 267
Delta R.T. 0.01 min
Lab File: VX014653.D
Acq: 17 Jan 2020 14:34

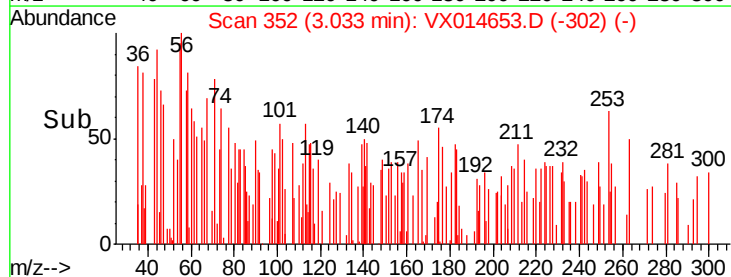
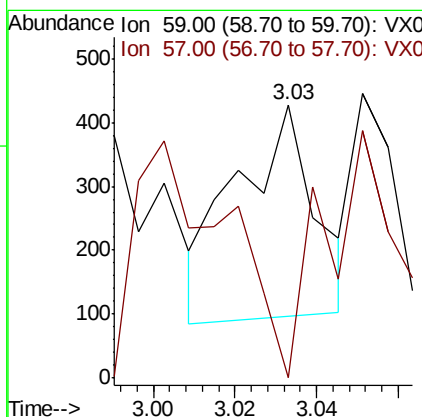
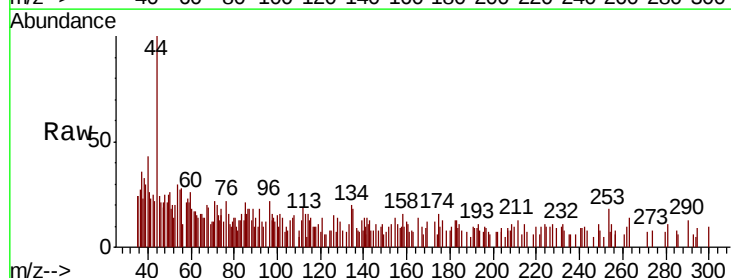
Instrument :
MSVOA_X
ClientSampled :

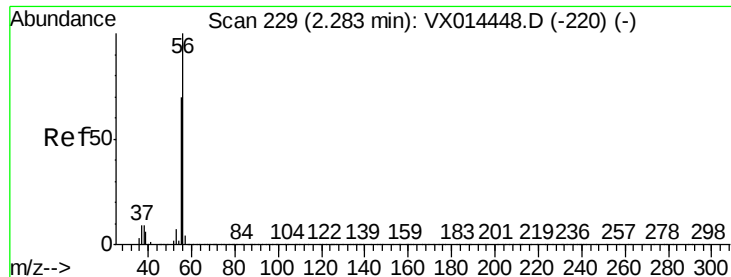
Tot Ion:142 Resp: 1275
Ion Ratio Lower Upper
142 100
127 38.7 31.2 46.8
141 21.5 11.4 17.2#



#11
Tert butyl alcohol
Concen: 0.437 ug/l
RT: 3.03 min Scan# 352
Delta R.T. 0.01 min
Lab File: VX014653.D
Acq: 17 Jan 2020 14:34

Tgt Ion: 59 Resp: 452
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#

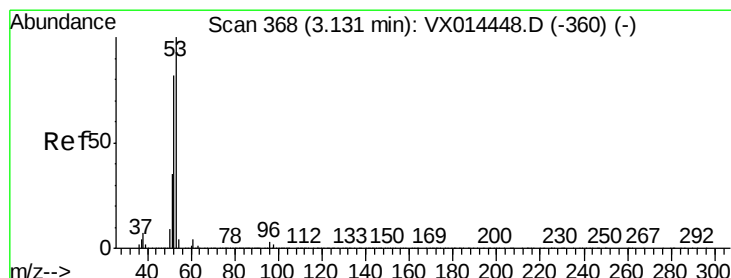
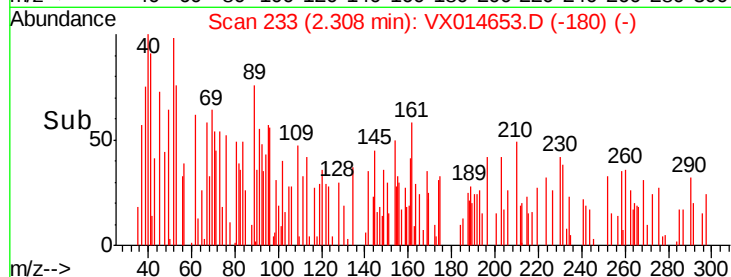
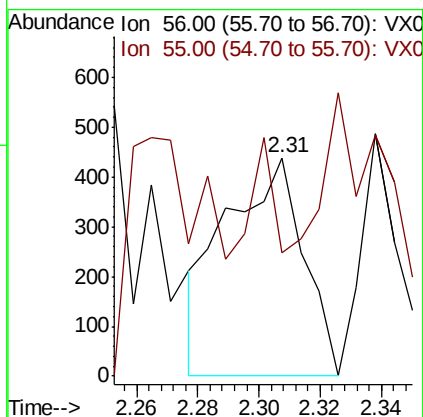
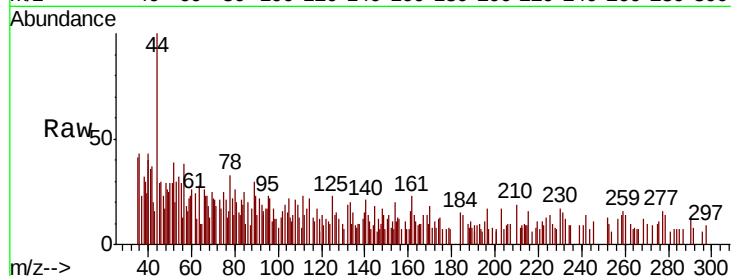




#13
Acrolein
Concen: 0.942 ug/l
RT: 2.31 min Scan# 233
Delta R.T. 0.02 min
Lab File: VX014653.D
Acq: 17 Jan 2020 14:34

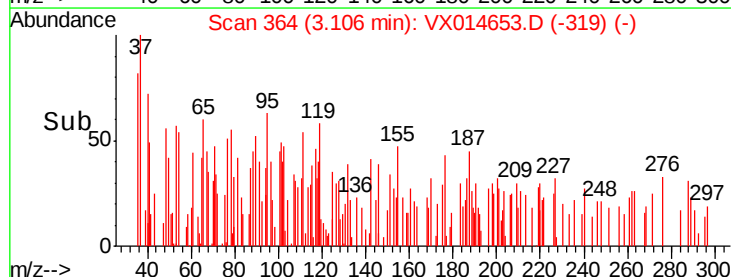
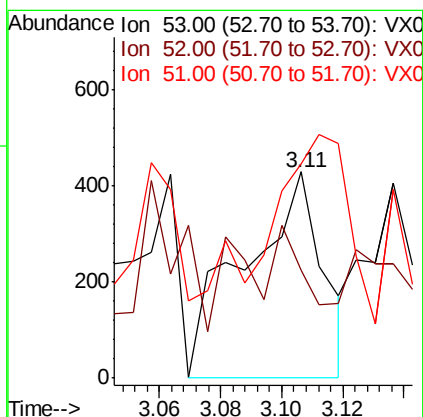
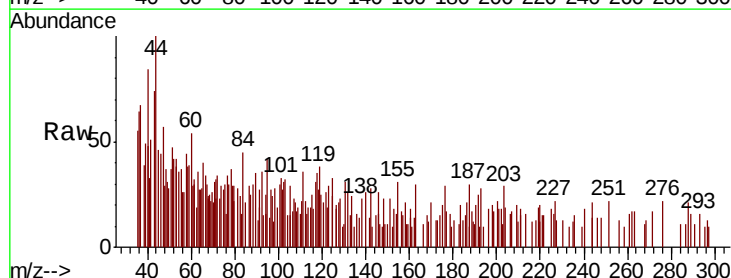
Instrument :
MSVOA_X
ClientSampleId :

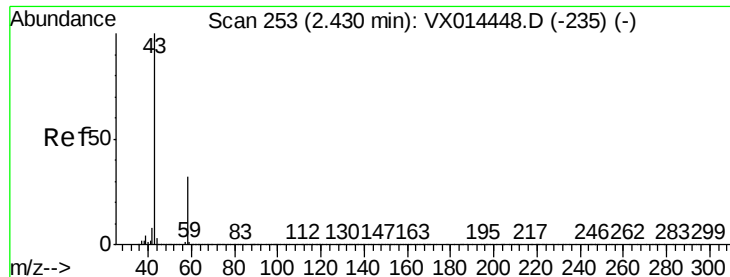
Tot Ion: 56 Resp: 780
Ion Ratio Lower Upper
56 100
55 0.0 55.0 82.6#



#15
Acrylonitrile
Concen: 0.305 ug/l
RT: 3.11 min Scan# 364
Delta R.T. -0.02 min
Lab File: VX014653.D
Acq: 17 Jan 2020 14:34

Tgt Ion: 53 Resp: 761
Ion Ratio Lower Upper
53 100
52 0.0 67.0 100.4#
51 92.9 28.5 42.7#





#16

Acetone

Concen: Below Cal

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX014653.D

Acq: 17 Jan 2020 14:34

Instrument :

MSVOA_X

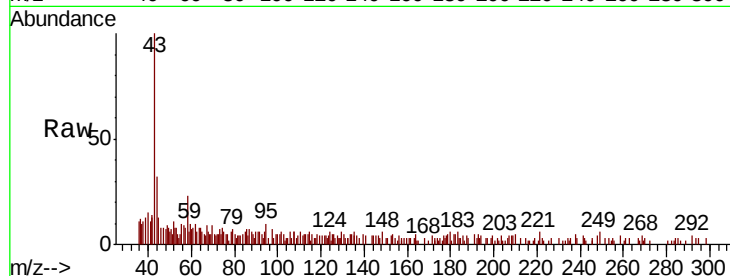
ClientSampled :

Tot Ion: 43 Resp: 4188

Ion Ratio Lower Upper

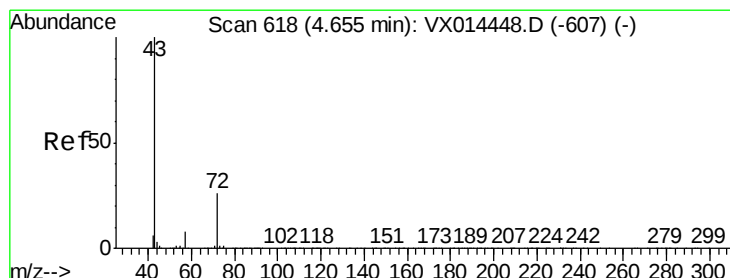
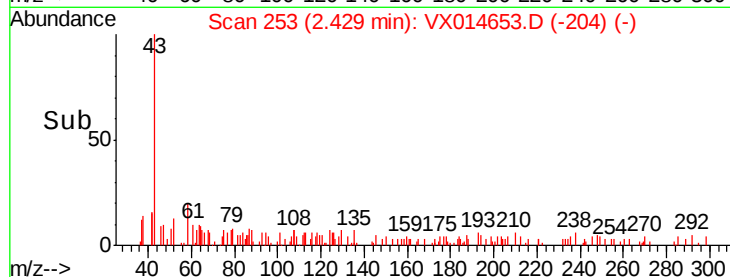
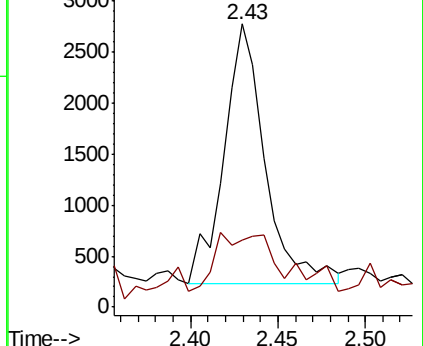
43 100

58 19.4 25.4 38.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#25

2-Butanone

Concen: 0.210 ug/l

RT: 4.66 min Scan# 619

Delta R.T. 0.01 min

Lab File: VX014653.D

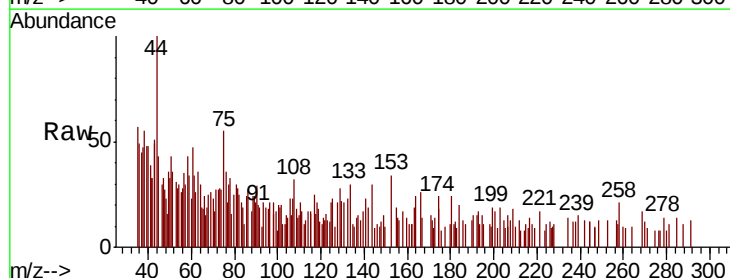
Acq: 17 Jan 2020 14:34

Tgt Ion: 43 Resp: 778

Ion Ratio Lower Upper

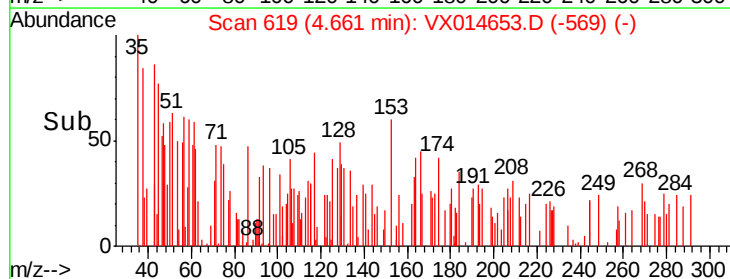
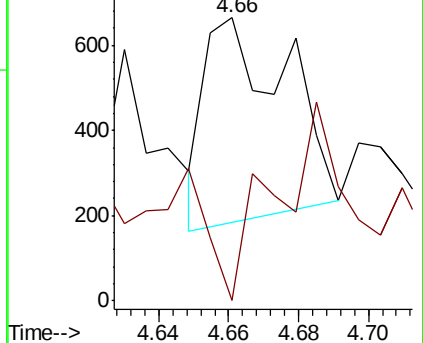
43 100

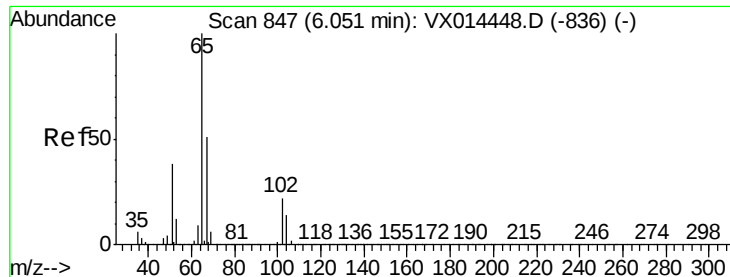
72 0.0 20.6 31.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 52.527 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX014653.D

Acq: 17 Jan 2020 14:34

Instrument :

MSVOA_X

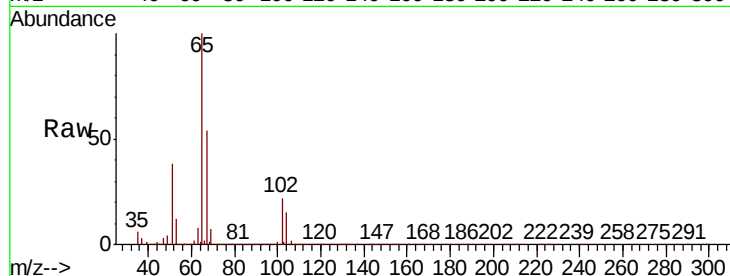
ClientSampleId :

Tot Ion: 65 Resp: 259930

Ion Ratio Lower Upper

65 100

67 52.2 0.0 106.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.06

100000

80000

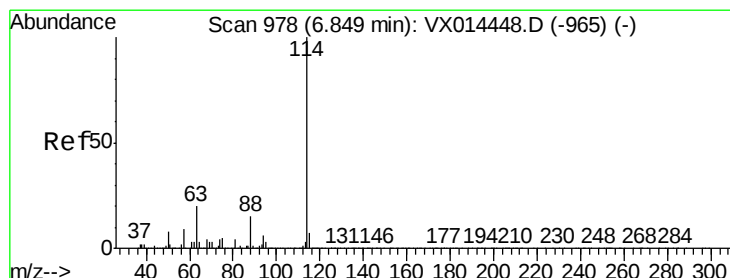
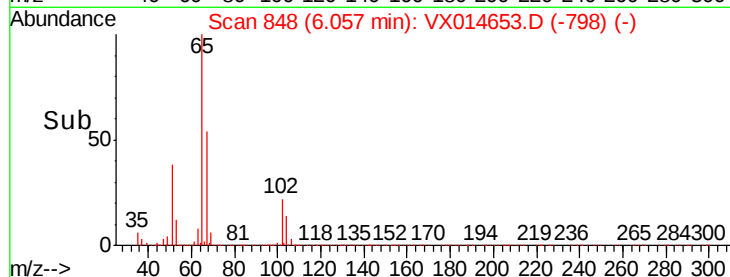
60000

40000

20000

0

Time--> 5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX014653.D

Acq: 17 Jan 2020 14:34

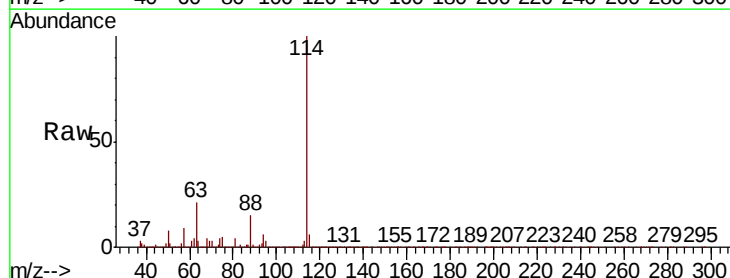
Tgt Ion: 114 Resp: 701074

Ion Ratio Lower Upper

114 100

63 20.6 0.0 39.6

88 15.2 0.0 30.8



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

400000

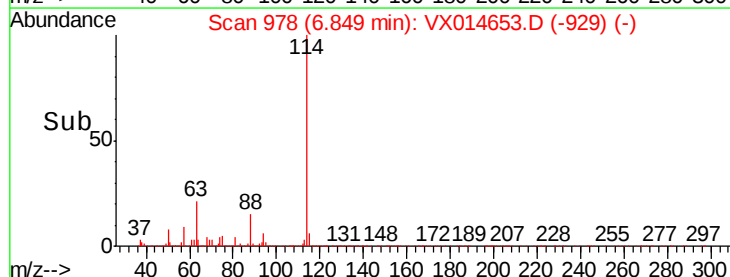
300000

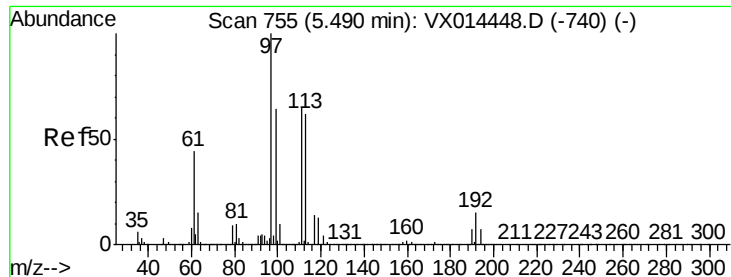
200000

100000

0

Time--> 6.70 6.80 6.90 7.00





#35

Dibromofluoromethane

Concen: 50.697 ug/l

RT: 5.49 min Scan# 755

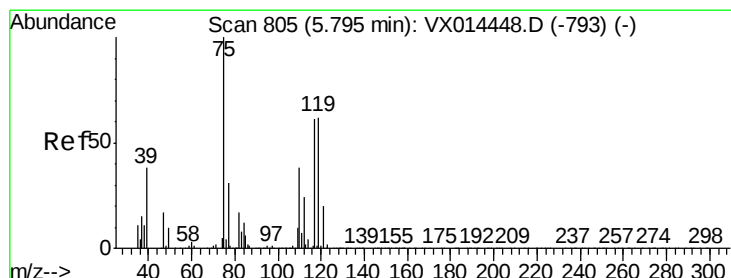
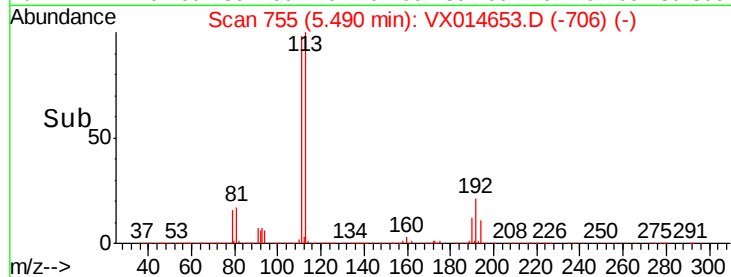
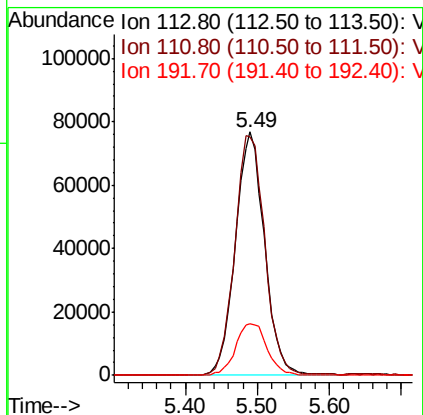
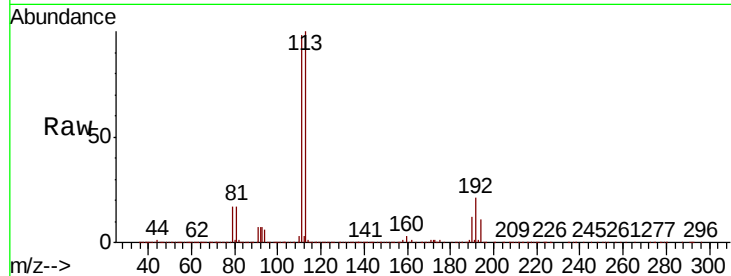
Delta R.T. -0.00 min

Lab File: VX014653.D

Acq: 17 Jan 2020 14:34

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:	113	Resp:	215155
Ion	Ratio	Lower	Upper
113	100		
111	101.9	81.5	122.3
192	22.8	19.2	28.8



#36

1,1-Dichloropropene

Concen: 4.901 ug/l

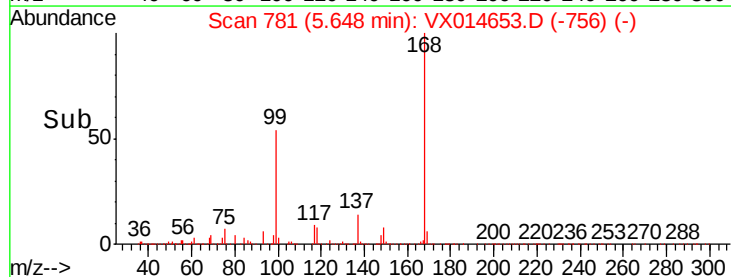
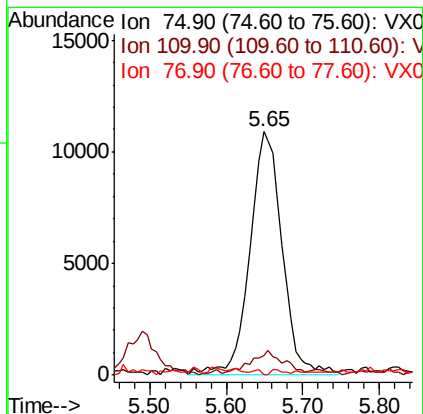
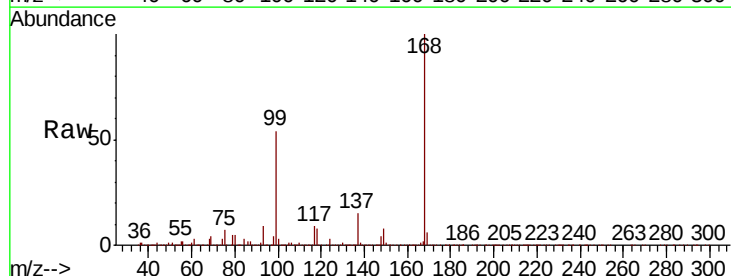
RT: 5.65 min Scan# 781

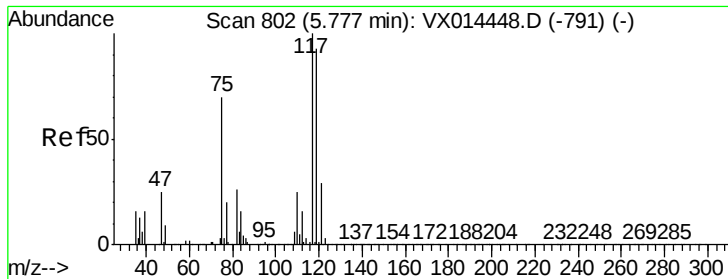
Delta R.T. -0.15 min

Lab File: VX014653.D

Acq: 17 Jan 2020 14:34

Tgt Ion:	75	Resp:	32312
Ion	Ratio	Lower	Upper
75	100		
110	10.4	18.6	55.8#
77	0.5	24.5	36.7#





#38

Carbon Tetrachloride

Concen: 6.500 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX014653.D

Acq: 17 Jan 2020 14:34

Instrument :

MSVOA_X

ClientSampled :

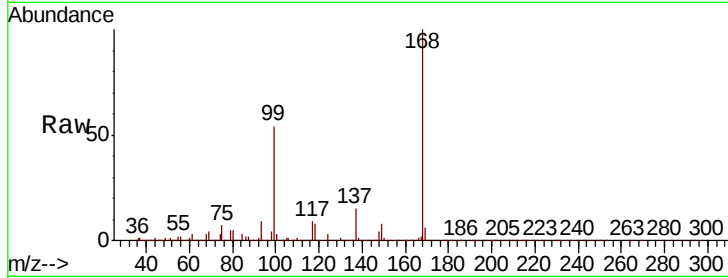
Tot Ion:117 Resp: 39434

Ion Ratio Lower Upper

117 100

119 3.6 73.8 110.8#

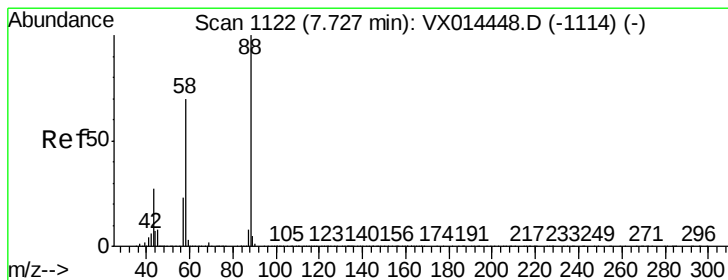
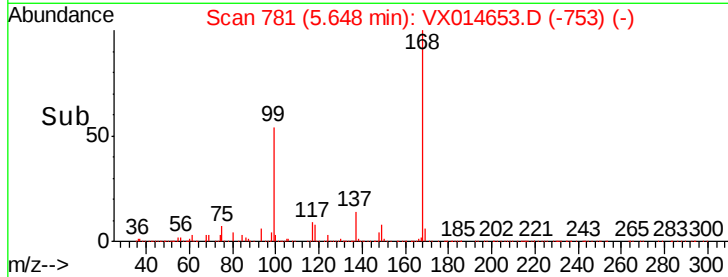
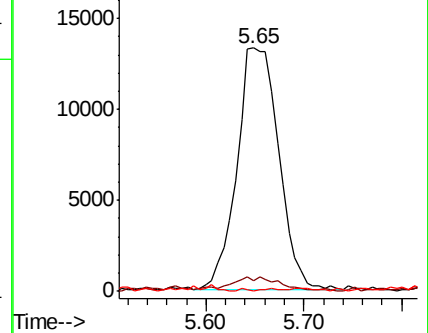
121 0.0 23.4 35.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#49

1,4-Dioxane

Concen: 5.187 ug/l

RT: 7.74 min Scan# 1124

Delta R.T. 0.01 min

Lab File: VX014653.D

Acq: 17 Jan 2020 14:34

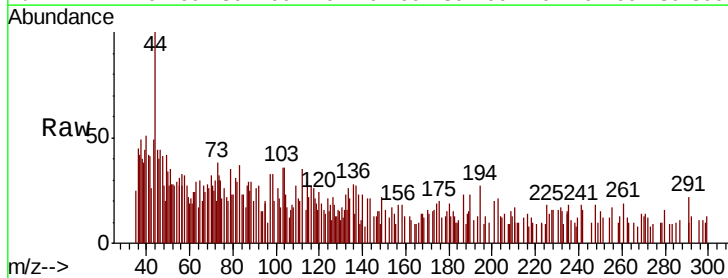
Tgt Ion: 88 Resp: 609

Ion Ratio Lower Upper

88 100

43 0.0 27.4 41.0#

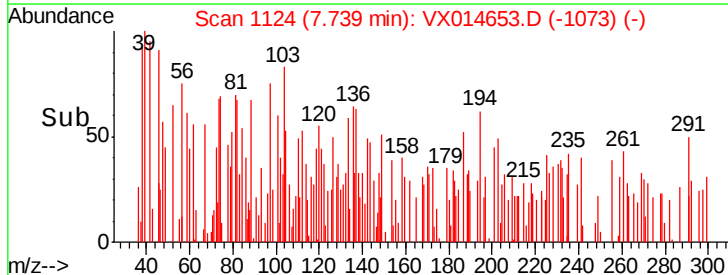
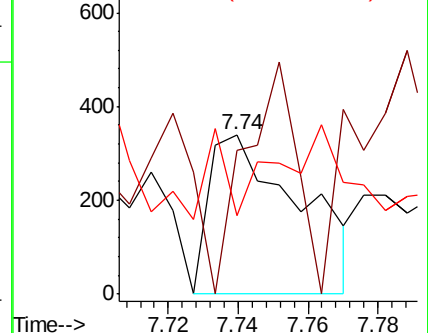
58 12.3 57.1 85.7#

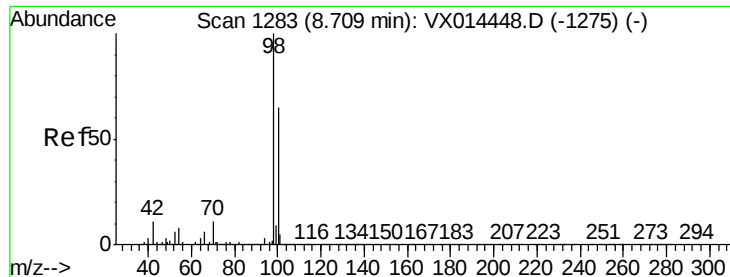


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.175 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX014653.D

Acq: 17 Jan 2020 14:34

Instrument :

MSVOA_X

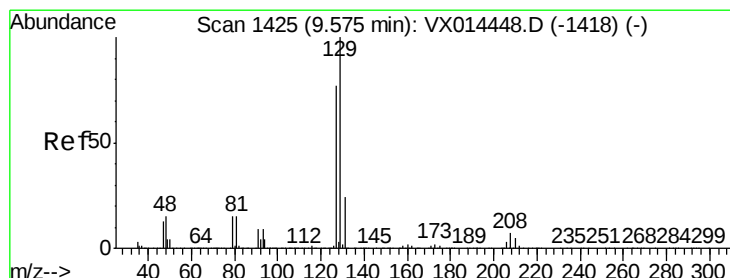
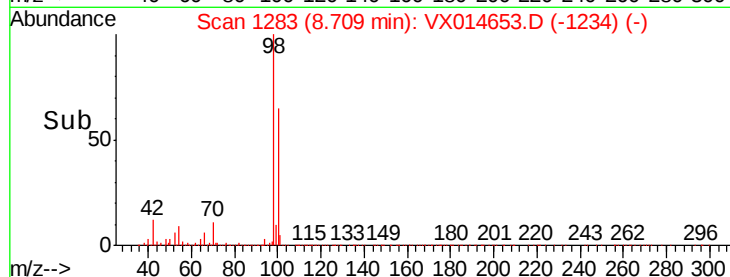
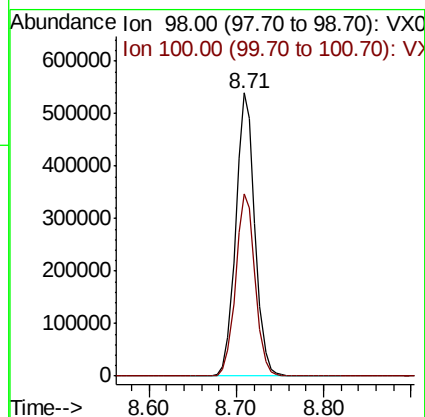
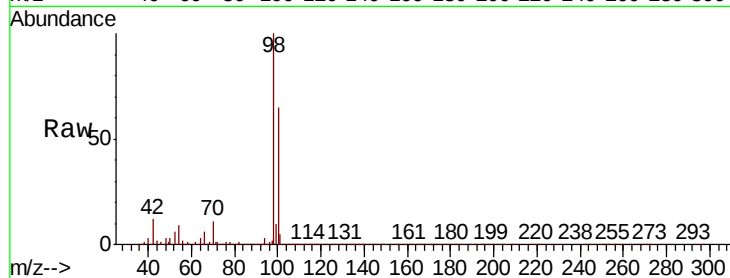
ClientSampleId :

Tot Ion: 98 Resp: 826333

Ion Ratio Lower Upper

98 100

100 65.3 53.2 79.8



#60

Dibromochloromethane

Concen: 0.401 ug/l

RT: 9.58 min Scan# 1426

Delta R.T. 0.01 min

Lab File: VX014653.D

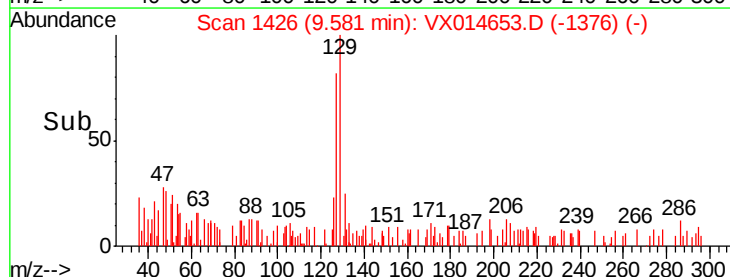
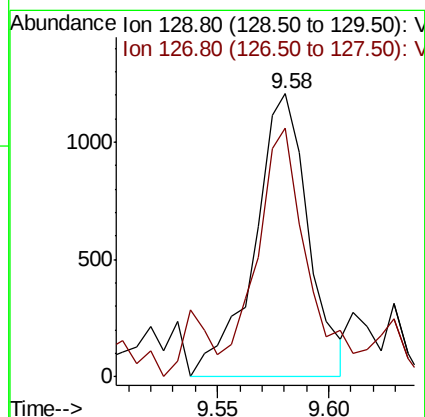
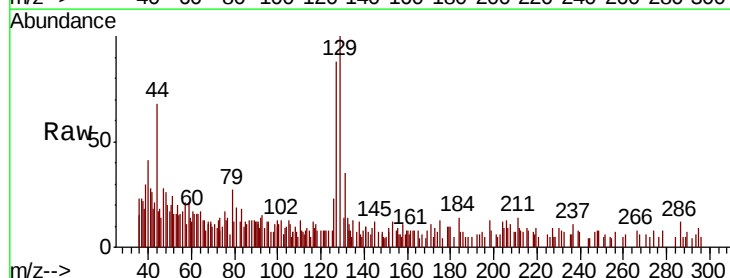
Acq: 17 Jan 2020 14:34

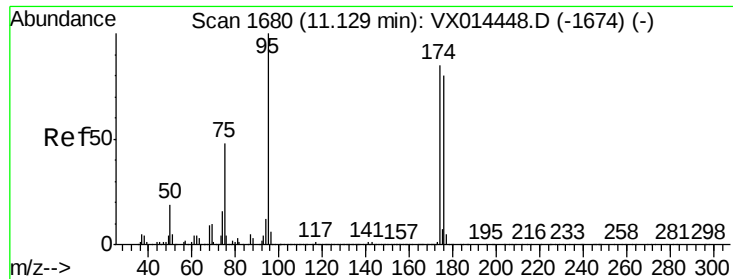
Tgt Ion: 129 Resp: 2030

Ion Ratio Lower Upper

129 100

127 71.4 38.6 116.0





#62

4-Bromofluorobenzene

Concen: 45.960 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.00 min

Lab File: VX014653.D

Acq: 17 Jan 2020 14:34

Instrument :

MSVOA_X

ClientSampleId :

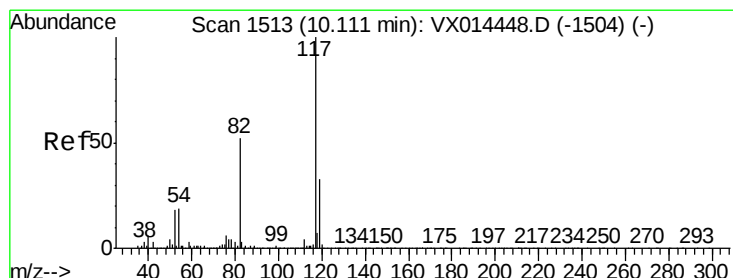
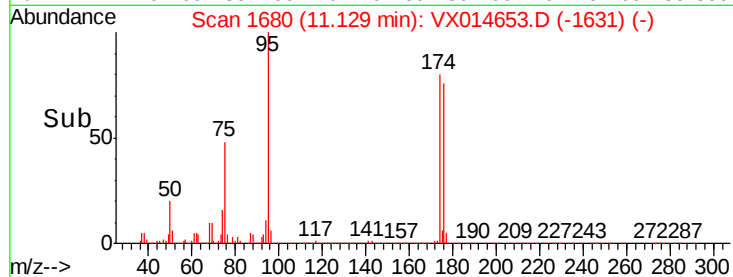
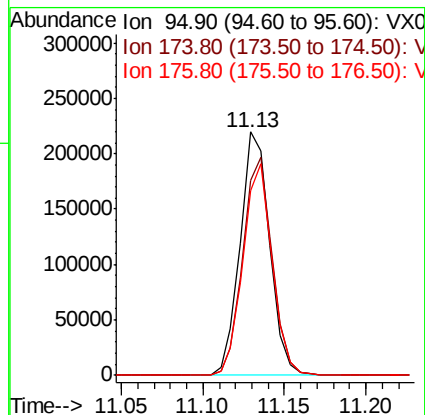
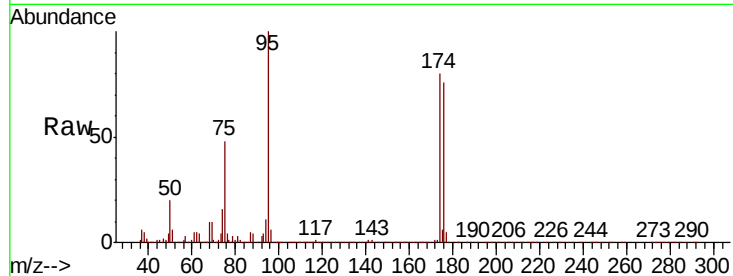
Tot Ion: 95 Resp: 277878

Ion Ratio Lower Upper

95 100

174 89.5 0.0 180.8

176 86.2 0.0 172.8



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VX014653.D

Acq: 17 Jan 2020 14:34

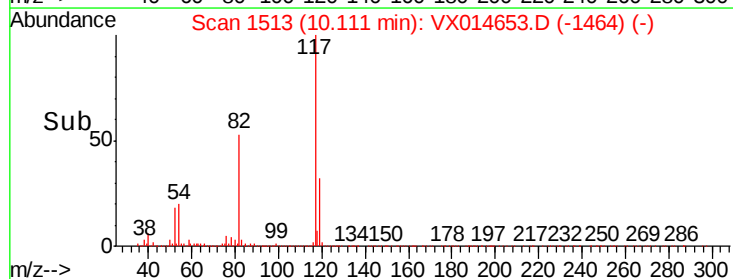
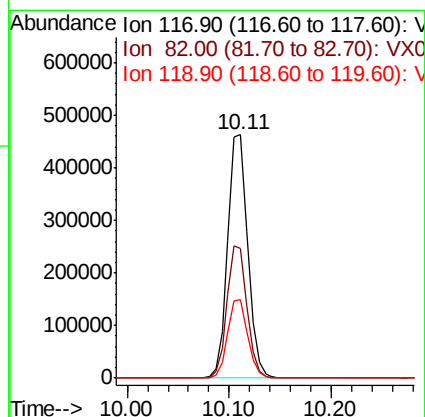
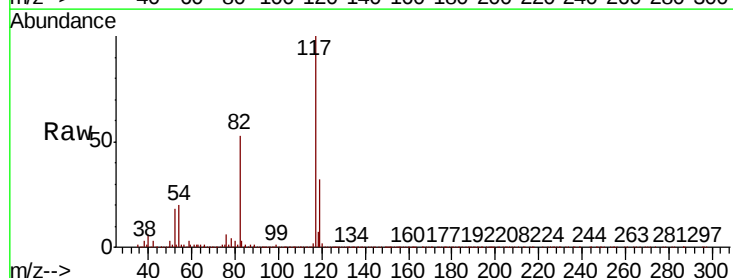
Tgt Ion: 117 Resp: 631238

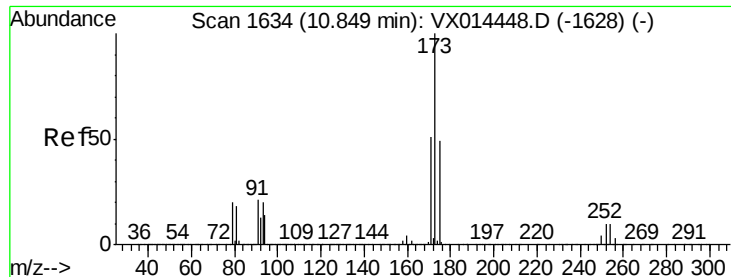
Ion Ratio Lower Upper

117 100

82 53.4 41.8 62.6

119 32.0 26.2 39.4





#71

Bromoform

Concen: 0.521 ug/l

RT: 10.85 min Scan# 1634

Delta R.T. -0.00 min

Lab File: VX014653.D

Acq: 17 Jan 2020 14:34

Instrument :

MSVOA_X

ClientSampleId :

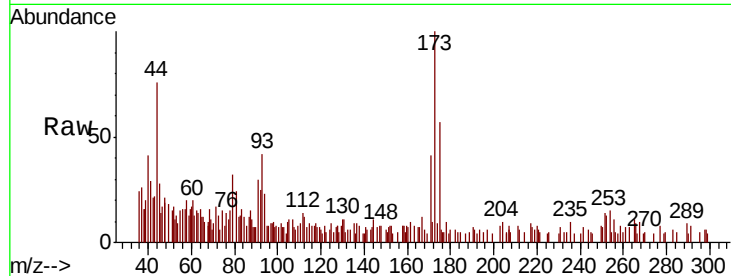
Tot Ion:173 Resp: 2083

Ion Ratio Lower Upper

173 100

175 46.9 24.3 72.8

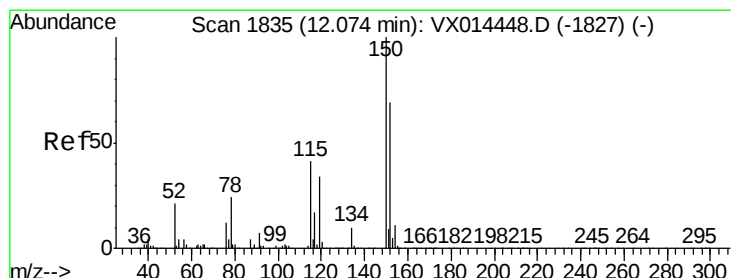
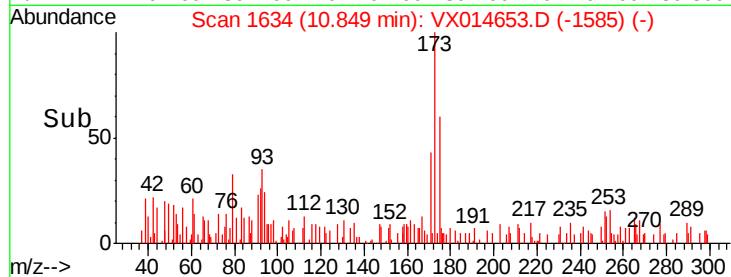
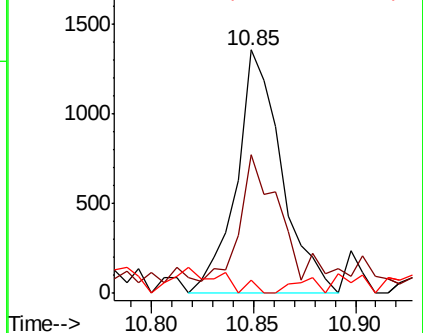
254 0.0 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): 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: VX014653.D

Acq: 17 Jan 2020 14:34

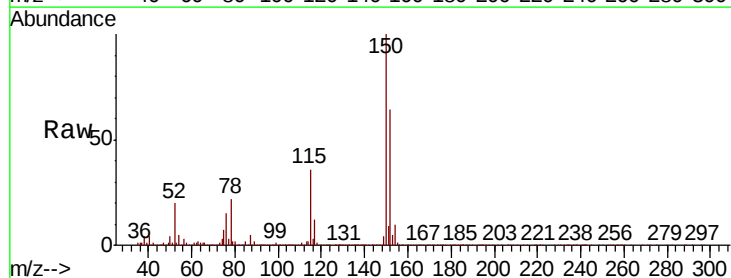
Tgt Ion:152 Resp: 282007

Ion Ratio Lower Upper

152 100

115 56.3 39.5 118.3

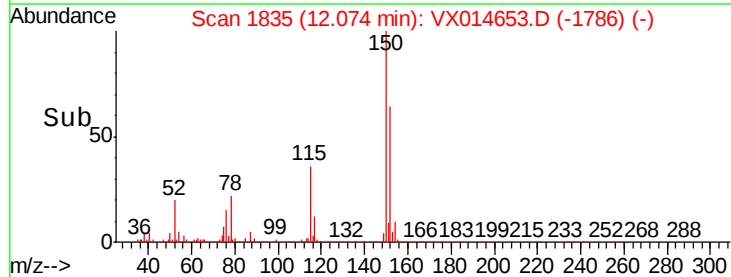
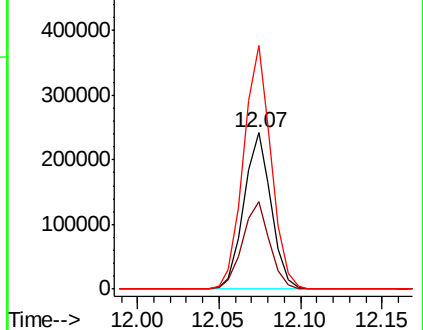
150 157.4 0.0 350.2

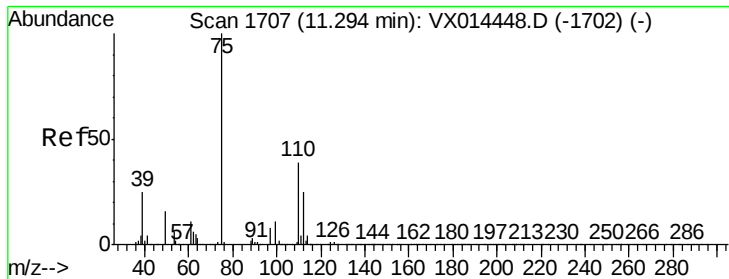


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 23.208 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014653.D

Acq: 17 Jan 2020 14:34

Instrument :

MSVOA_X

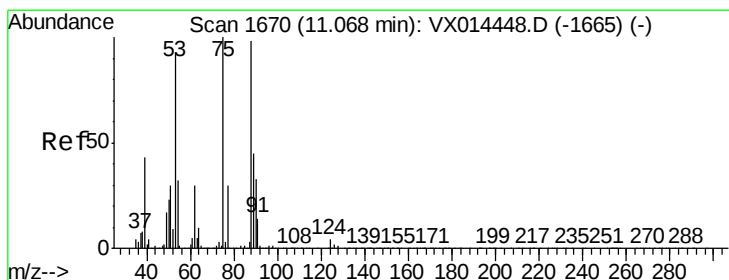
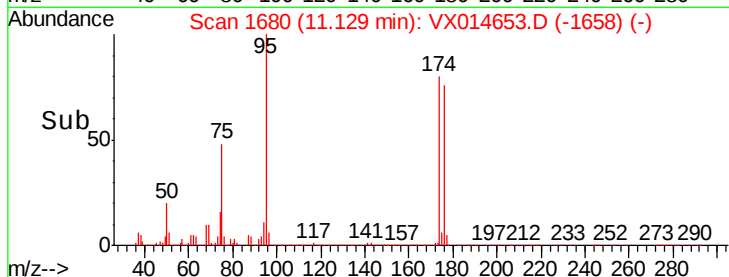
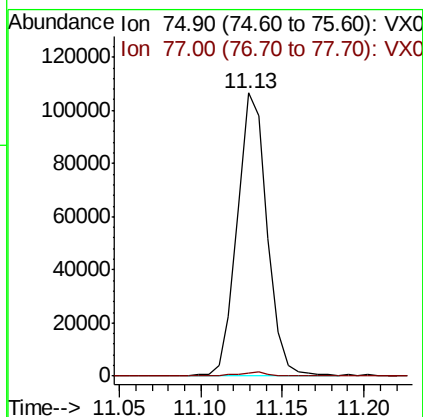
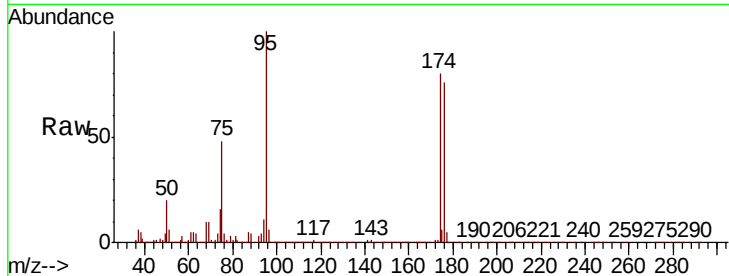
ClientSampleId :

Tot Ion: 75 Resp: 135411

Ion Ratio Lower Upper

75 100

77 1.7 21.9 65.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 61.356 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014653.D

Acq: 17 Jan 2020 14:34

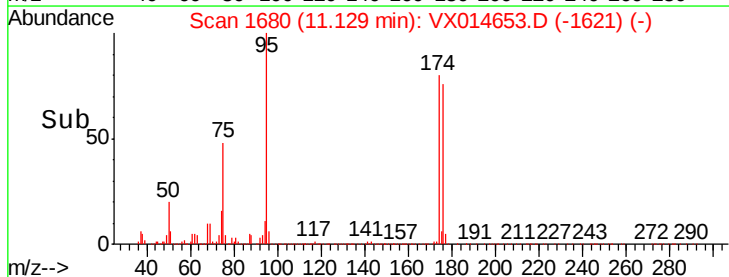
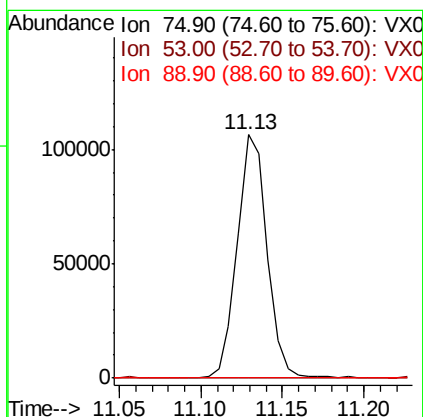
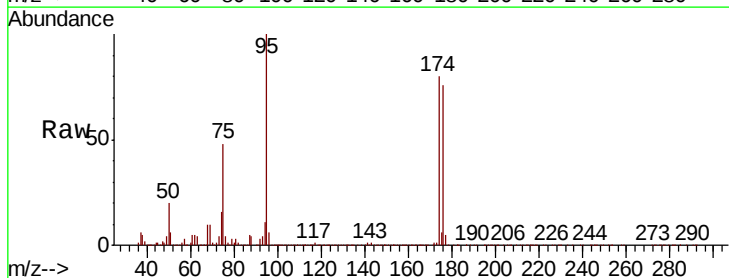
Tgt Ion: 75 Resp: 135411

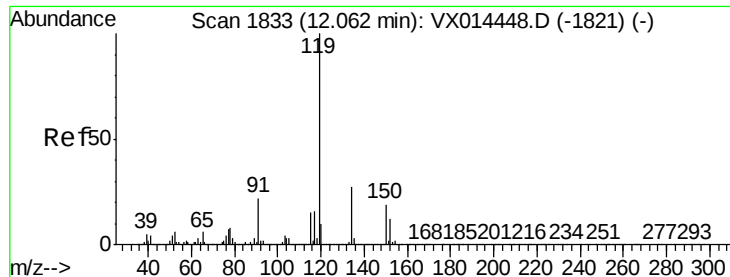
Ion Ratio Lower Upper

75 100

53 0.2 74.8 112.2#

89 0.1 36.3 54.5#

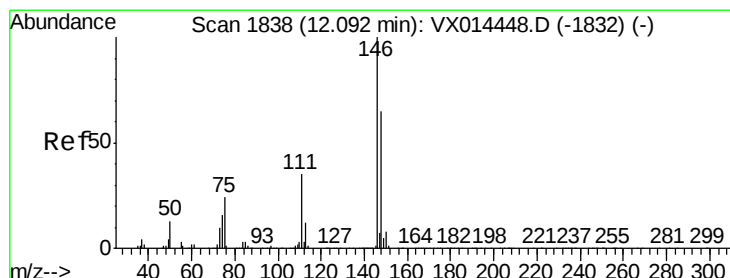
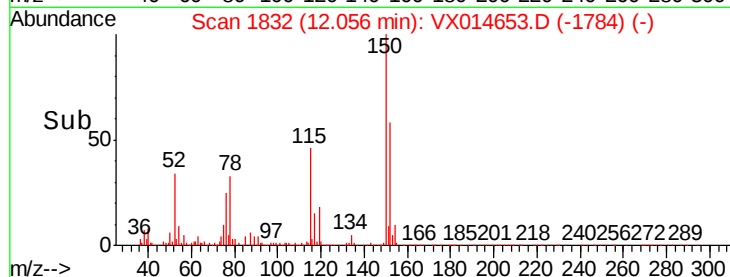
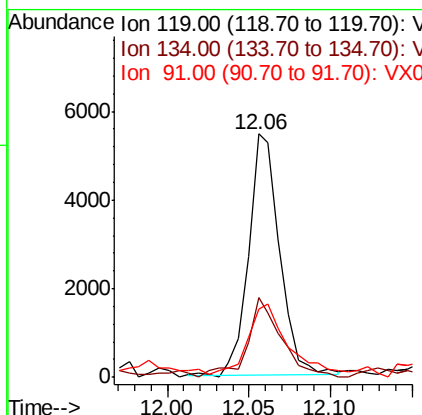
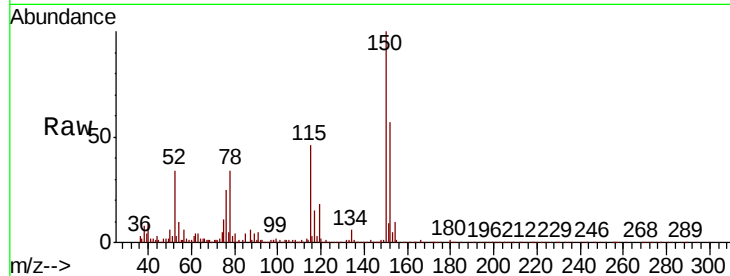




#86
p-Isopropyltoluene
Concen: 0.401 ug/l
RT: 12.06 min Scan# 1832
Delta R.T. -0.01 min
Lab File: VX014653.D
Acq: 17 Jan 2020 14:34

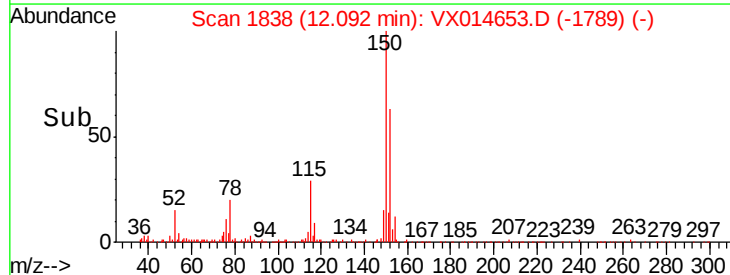
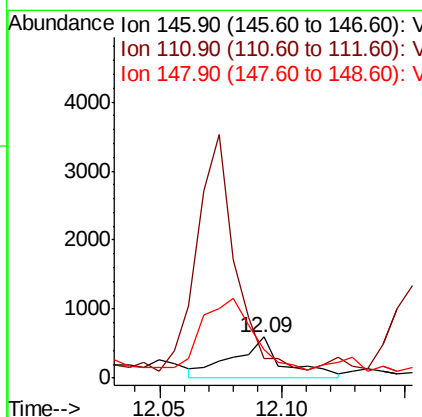
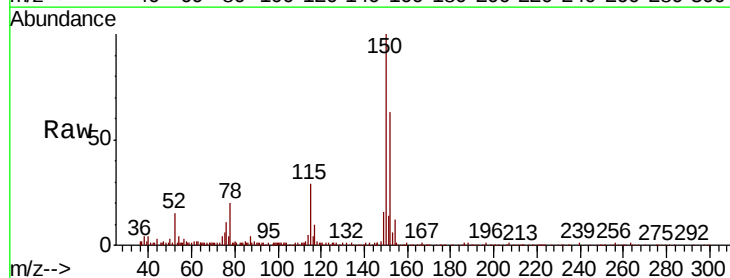
Instrument :
MSVOA_X
ClientSampleId :

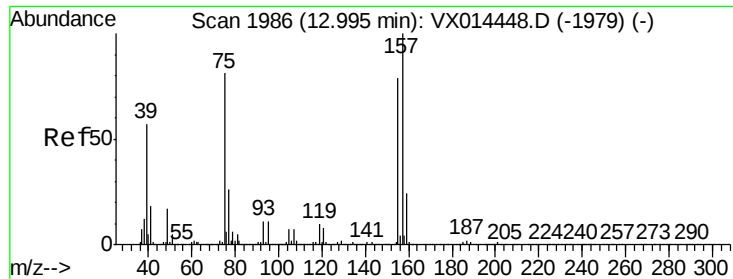
Tot Ion	Ratio	Lower	Upper
119	100		
134	36.3	13.5	40.4
91	37.0	11.1	33.3#



#88
1,4-Dichlorobenzene
Concen: Below Cal
RT: 12.09 min Scan# 1838
Delta R.T. 0.00 min
Lab File: VX014653.D
Acq: 17 Jan 2020 14:34

Tgt Ion	Ratio	Lower	Upper
146	100		
111	483.1	18.1	54.1#
148	223.4	32.1	96.3#





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.216 ug/l

RT: 13.01 min Scan# 1988

Delta R.T. 0.01 min

Lab File: VX014653.D

Acq: 17 Jan 2020 14:34

Instrument :

MSVOA_X

ClientSampled :

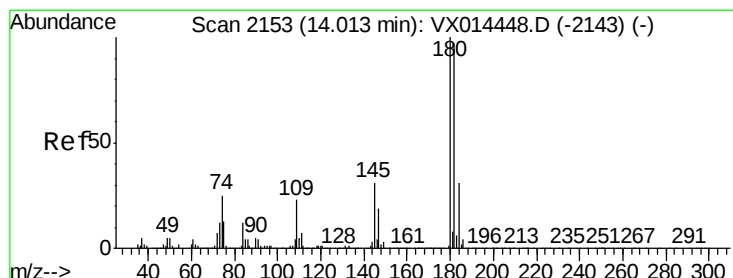
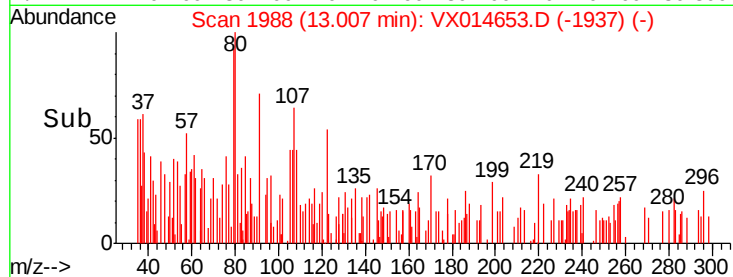
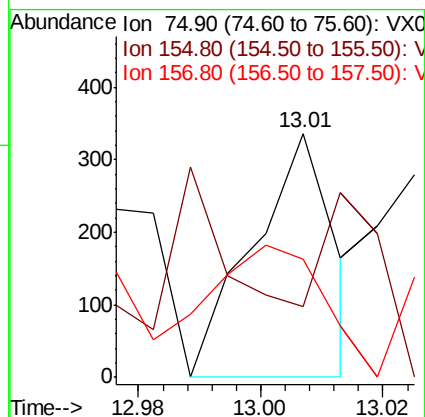
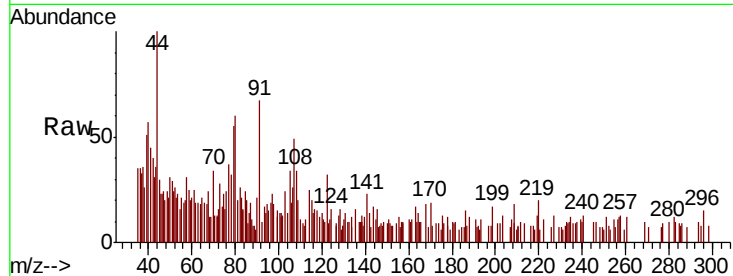
Tot Ion: 75 Resp: 309

Ion Ratio Lower Upper

75 100

155 53.4 48.7 146.1

157 76.4 62.0 185.9



#96

1,2,3-Trichlorobenzene

Concen: Below Cal

RT: 13.87 min Scan# 2129

Delta R.T. -0.15 min

Lab File: VX014653.D

Acq: 17 Jan 2020 14:34

Tgt Ion: 180 Resp: 190

Ion Ratio Lower Upper

180 100

182 84.7 47.9 143.6

145 43.7 14.8 44.3

