

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX011720\
 Data File : VX014656.D
 Acq On : 17 Jan 2020 15:44
 Operator : JC/SP
 Sample : L1162-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jan 18 05:08:42 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	450627	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	696443	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	630181	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	286551	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	257452	51.18	ug/l	0.00
Spiked Amount			Recovery	=	102.36%	
35) Dibromofluoromethane	5.49	113	215585	51.14	ug/l	0.00
Spiked Amount			Recovery	=	102.28%	
50) Toluene-d8	8.71	98	832192	50.87	ug/l	0.00
Spiked Amount			Recovery	=	101.74%	
62) 4-Bromofluorobenzene	11.14	95	282148	46.98	ug/l	0.00
Spiked Amount			Recovery	=	93.96%	

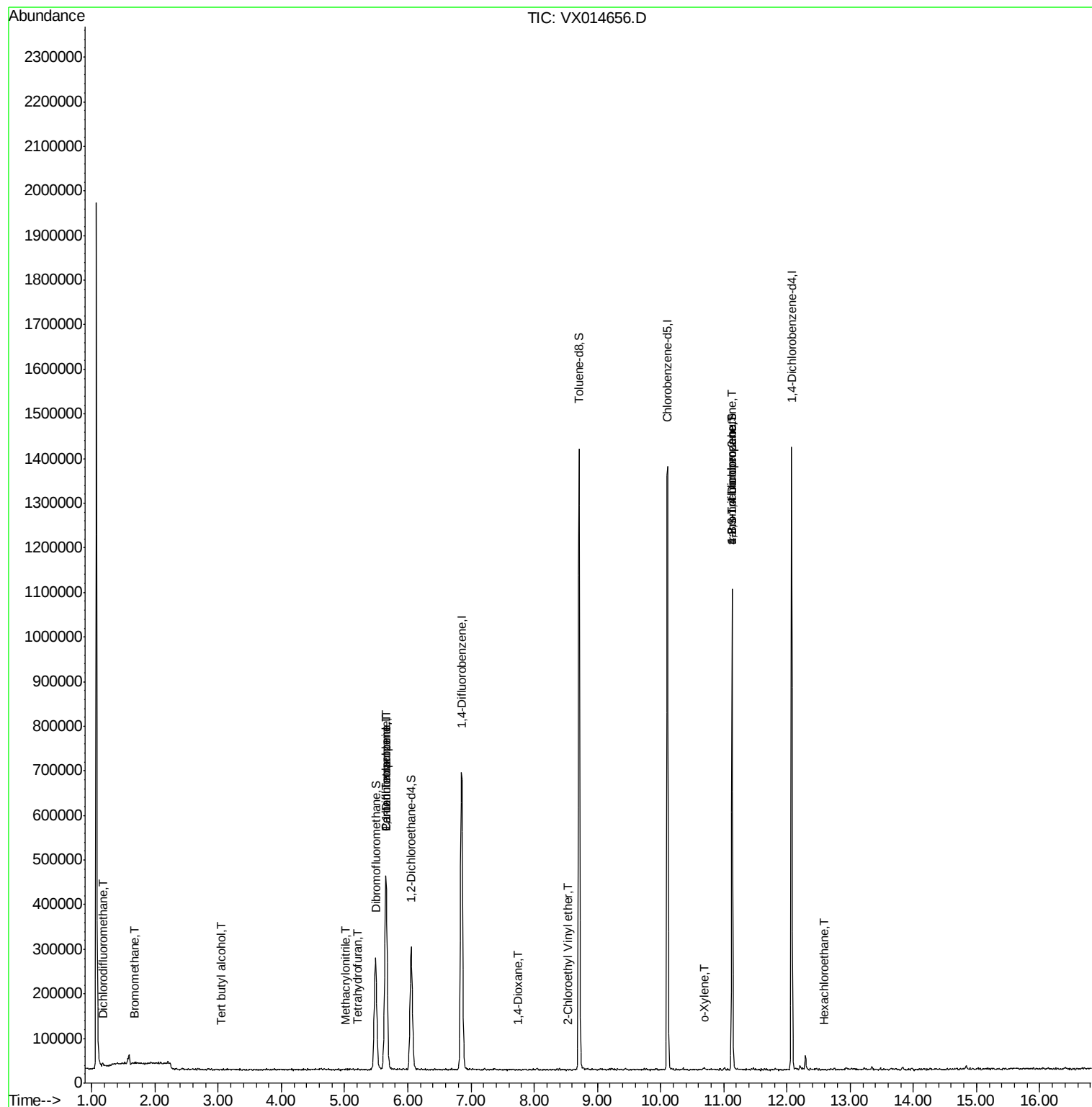
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.17	85	348	0.314	ug/l #	46
5) Bromomethane	1.66	94	1035	0.244	ug/l	85
6) Chloroethane	1.74	64	325	Below Cal	#	1
11) Tert butyl alcohol	3.04	59	723	0.688	ug/l #	1
16) Acetone	2.43	43	4978	Below Cal	#	84
29) Tetrahydrofuran	5.21	42	512	0.230	ug/l	92
36) 1,1-Dichloropropene	5.65	75	31288	4.777	ug/l #	51
38) Carbon Tetrachloride	5.65	117	41140	6.826	ug/l #	17
41) Methacrylonitrile	5.01	41	1480	0.390	ug/l #	30
49) 1,4-Dioxane	7.75	88	340	2.915	ug/l #	12
58) 2-Chloroethyl Vinyl ether	8.54	63	575	0.221	ug/l	97
69) o-Xylene	10.70	106	1817	0.212	ug/l	92
76) 1,2,3-Trichloropropane	11.13	75	138470	23.355	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	138470	61.748	ug/l #	12
88) 1,4-Dichlorobenzene	12.10	146	745	Below Cal	#	39
90) Hexachloroethane	12.59	117	763	0.239	ug/l #	48
93) 1,2,4-Trichlorobenzene	13.64	180	400	Below Cal		83
96) 1,2,3-Trichlorobenzene	14.00	180	297	Below Cal	#	54

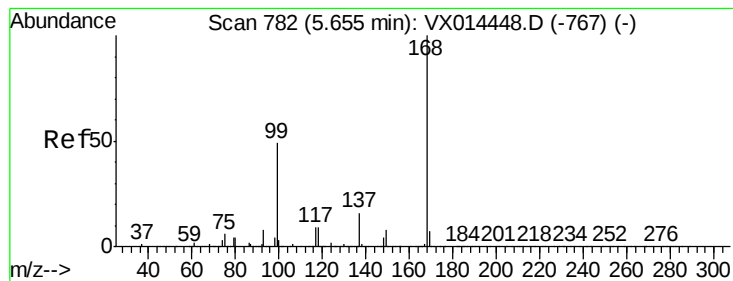
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.00 min

Lab File: VX014656.D

Acq: 17 Jan 2020 15:44

Instrument :

MSVOA_X

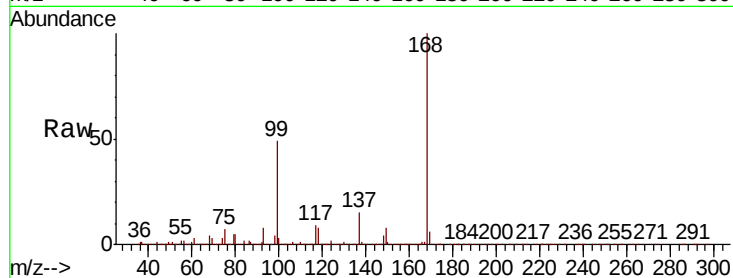
ClientSampleId :

Tot Ion:168 Resp: 450627

Ion Ratio Lower Upper

168 100

99 48.4 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

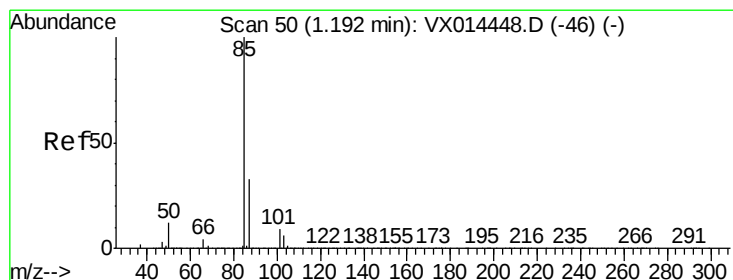
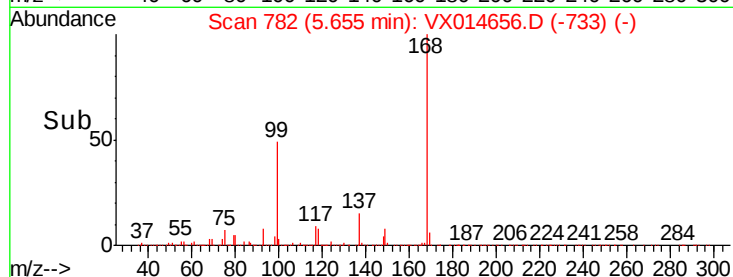
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.314 ug/l

RT: 1.17 min Scan# 46

Delta R.T. -0.02 min

Lab File: VX014656.D

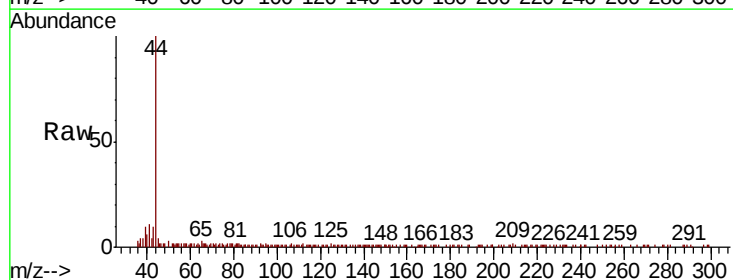
Acq: 17 Jan 2020 15:44

Tgt Ion: 85 Resp: 348

Ion Ratio Lower Upper

85 100

87 2.3 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

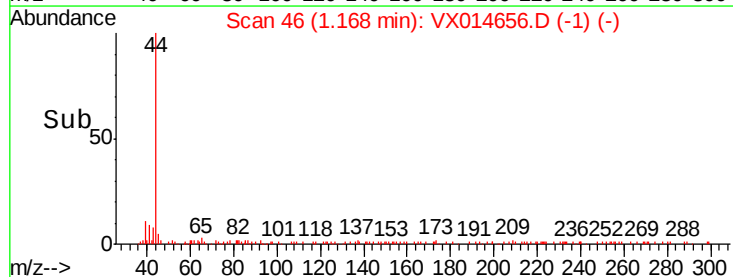
300

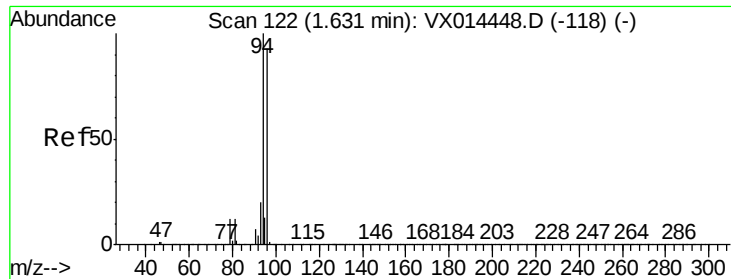
200

100

0

Time-->





#5

Bromomethane

Concen: 0.244 ug/l

RT: 1.66 min Scan# 127

Delta R.T. 0.03 min

Lab File: VX014656.D

Acq: 17 Jan 2020 15:44

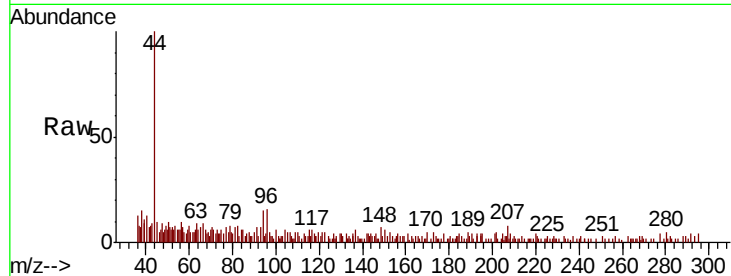
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 94 Resp: 1035

Ion Ratio Lower Upper

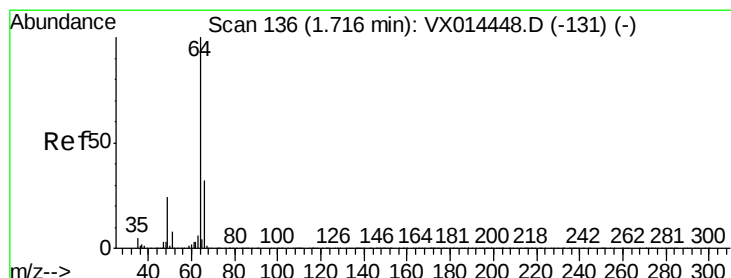
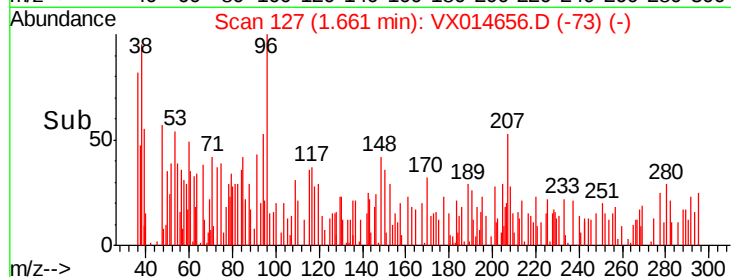
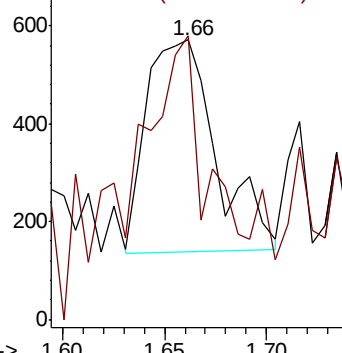
94 100

96 107.3 74.2 111.2



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.74 min Scan# 140

Delta R.T. 0.02 min

Lab File: VX014656.D

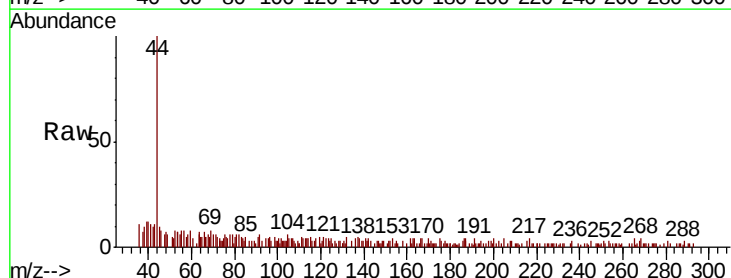
Acq: 17 Jan 2020 15:44

Tgt Ion: 64 Resp: 325

Ion Ratio Lower Upper

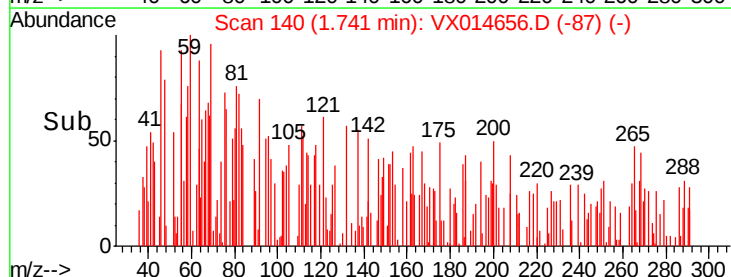
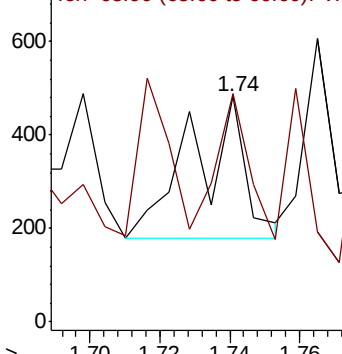
64 100

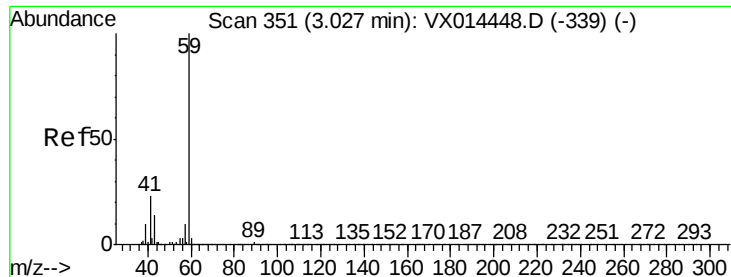
66 102.3 25.3 37.9#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

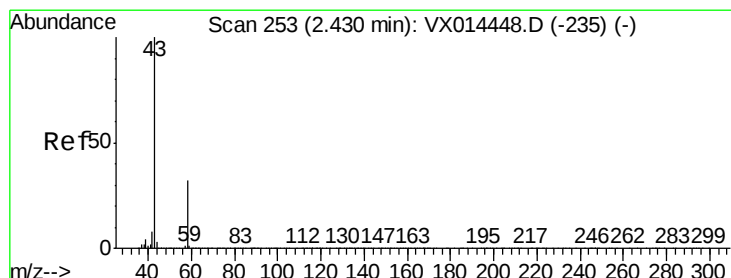
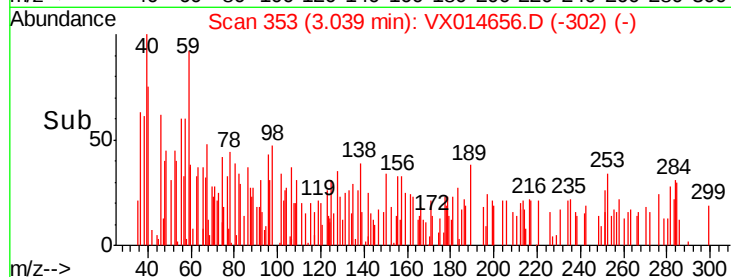
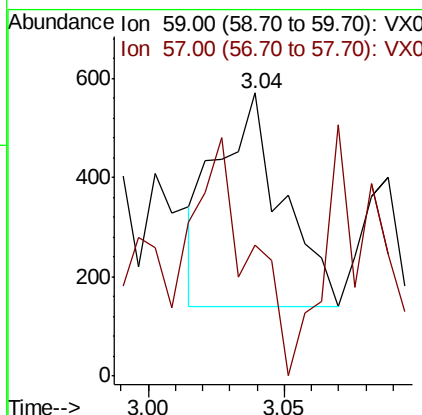
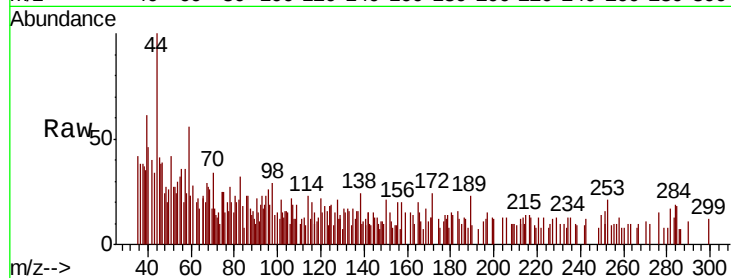




#11
Tert butyl alcohol
Concen: 0.688 ug/l
RT: 3.04 min Scan# 353
Delta R.T. 0.01 min
Lab File: VX014656.D
Acq: 17 Jan 2020 15:44

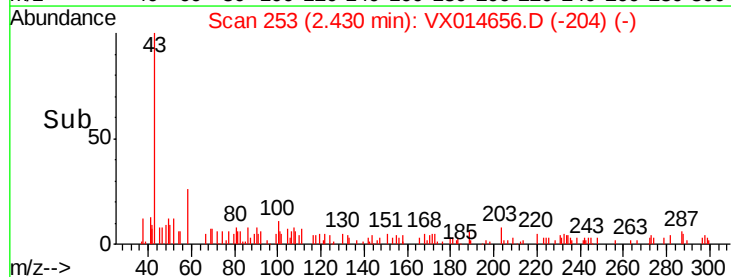
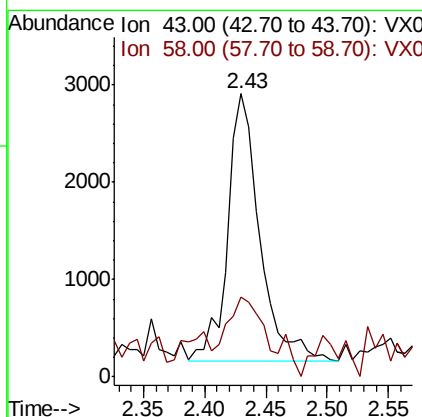
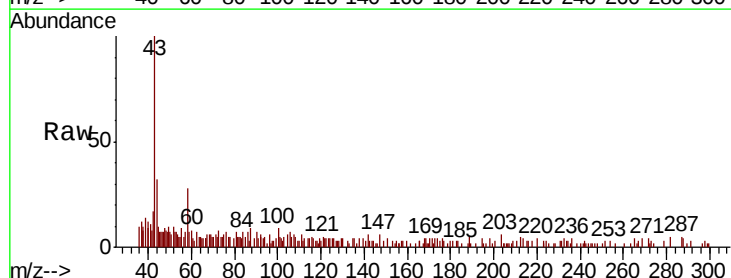
Instrument :
MSVOA_X
ClientSampleId :

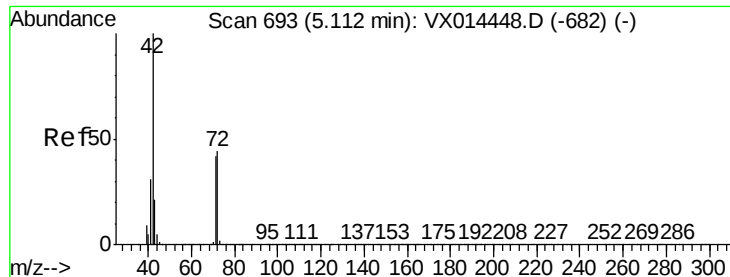
Tot Ion: 59 Resp: 723
Ion Ratio Lower Upper
59 100
57 94.1 8.5 12.7#



#16
Acetone
Concen: Below Cal
RT: 2.43 min Scan# 253
Delta R.T. 0.00 min
Lab File: VX014656.D
Acq: 17 Jan 2020 15:44

Tgt Ion: 43 Resp: 4978
Ion Ratio Lower Upper
43 100
58 22.6 25.4 38.0#





#29

Tetrahydrofuran

Concen: 0.230 ug/l

RT: 5.21 min Scan# 709

Delta R.T. 0.10 min

Lab File: VX014656.D

Acq: 17 Jan 2020 15:44

Instrument :

MSVOA_X

ClientSampleId :

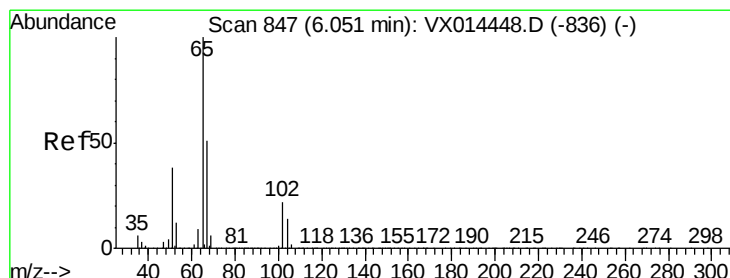
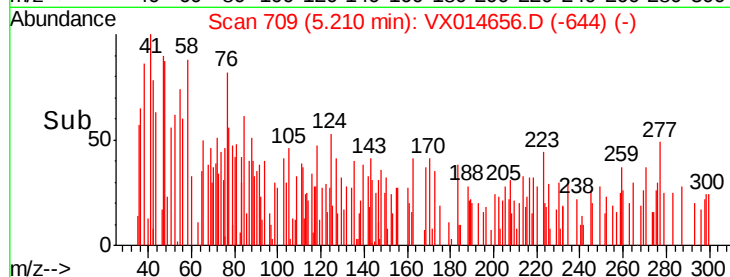
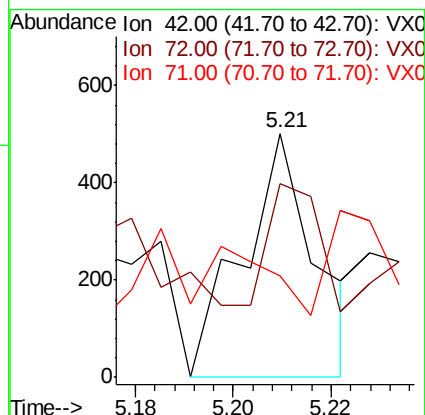
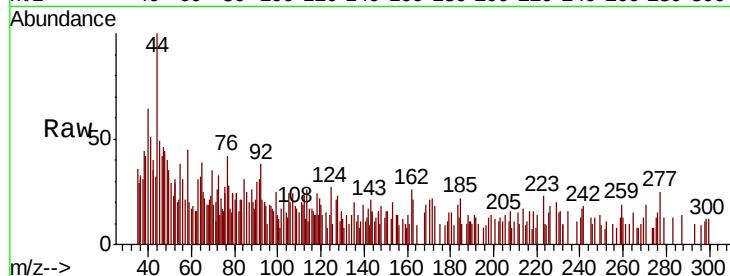
Tot Ion: 42 Resp: 512

Ion Ratio Lower Upper

42 100

72 49.2 36.2 54.4

71 36.1 34.1 51.1



#33

1,2-Dichloroethane-d4

Concen: 51.178 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX014656.D

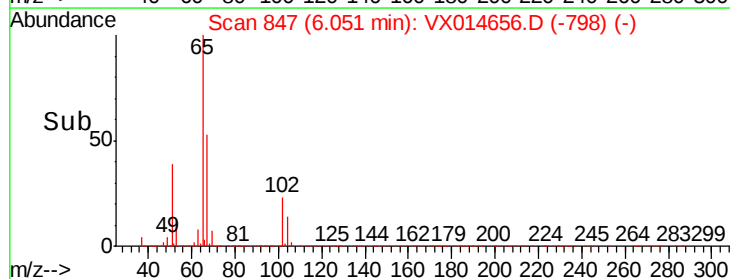
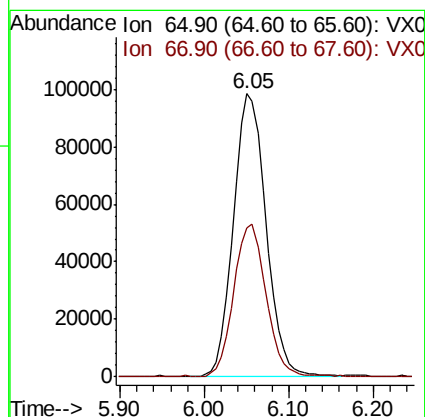
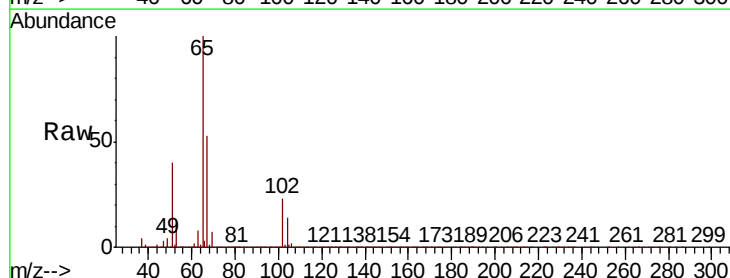
Acq: 17 Jan 2020 15:44

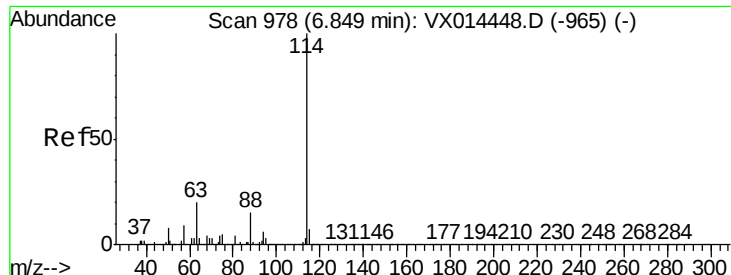
Tgt Ion: 65 Resp: 257452

Ion Ratio Lower Upper

65 100

67 53.2 0.0 106.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX014656.D

Acq: 17 Jan 2020 15:44

Instrument :

MSVOA_X

ClientSampleId :

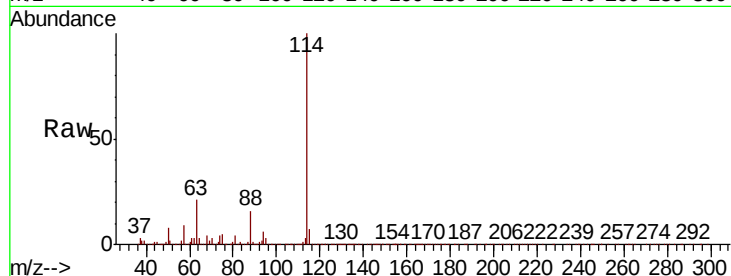
Tot Ion:114 Resp: 696443

Ion Ratio Lower Upper

114 100

63 20.7 0.0 39.6

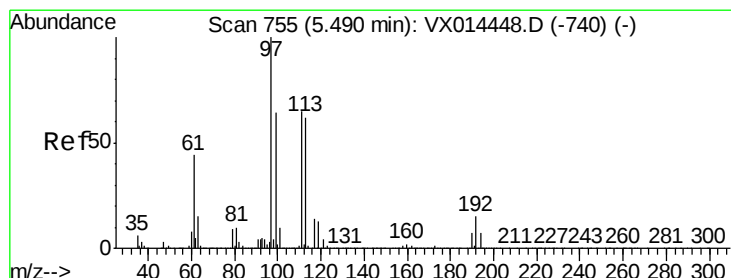
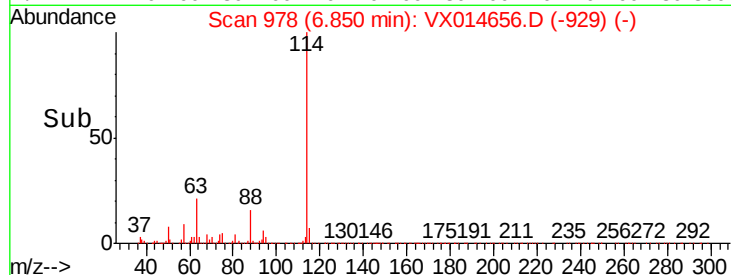
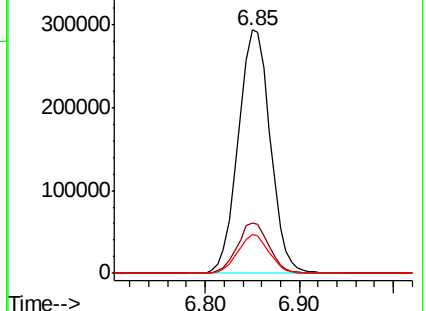
88 15.9 0.0 30.8



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



#35

Dibromofluoromethane

Concen: 51.136 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014656.D

Acq: 17 Jan 2020 15:44

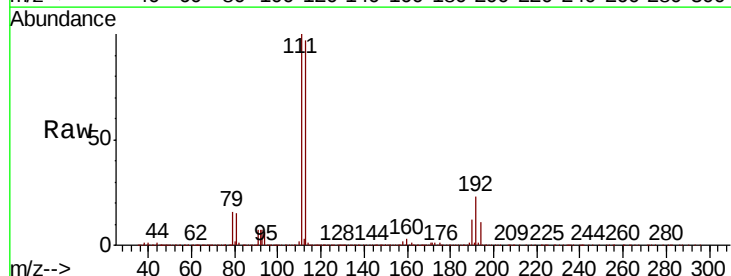
Tgt Ion:113 Resp: 215585

Ion Ratio Lower Upper

113 100

111 102.9 81.5 122.3

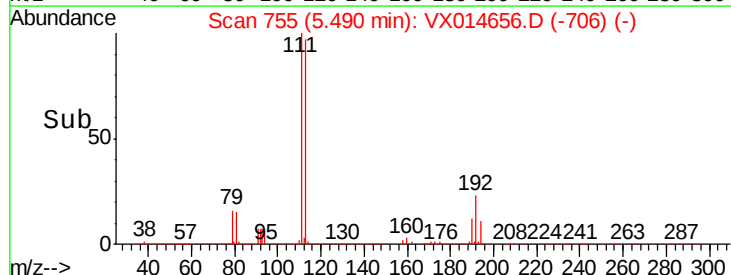
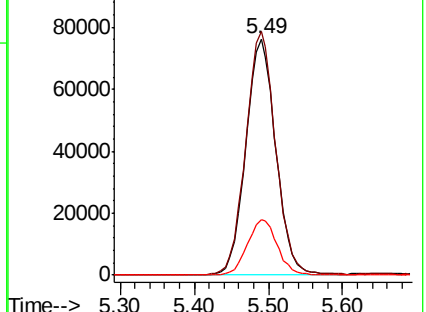
192 23.5 19.2 28.8

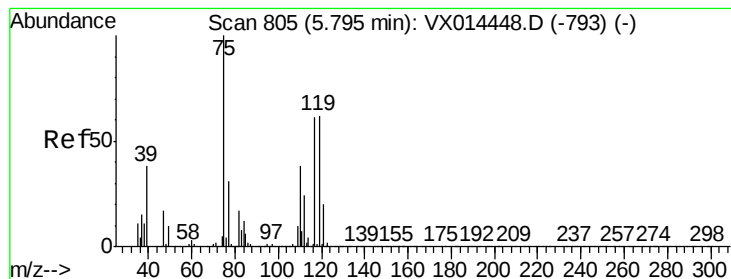


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.777 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.14 min

Lab File: VX014656.D

Acq: 17 Jan 2020 15:44

Instrument :
MSVOA_X
ClientSampled :

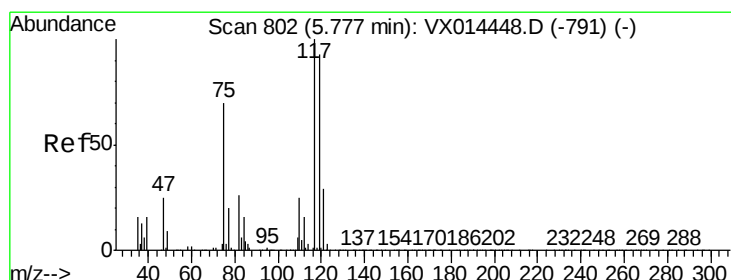
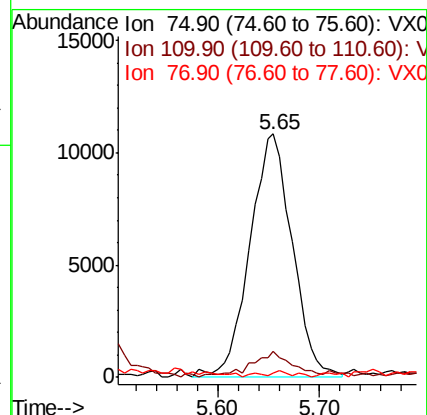
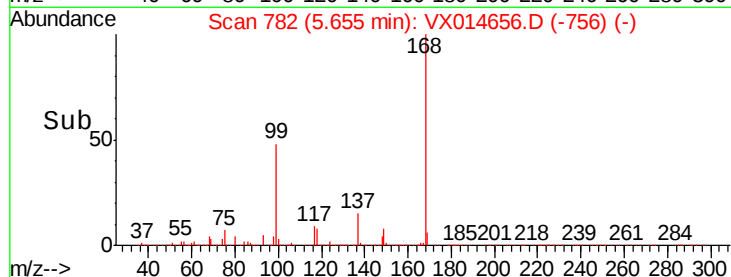
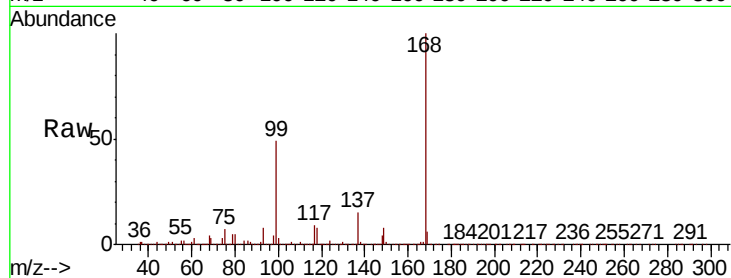
Tot Ion: 75 Resp: 31288

Ion Ratio Lower Upper

75 100

110 10.6 18.6 55.8#

77 0.8 24.5 36.7#



#38

Carbon Tetrachloride

Concen: 6.826 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX014656.D

Acq: 17 Jan 2020 15:44

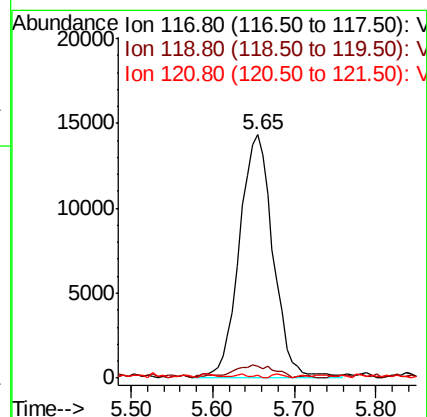
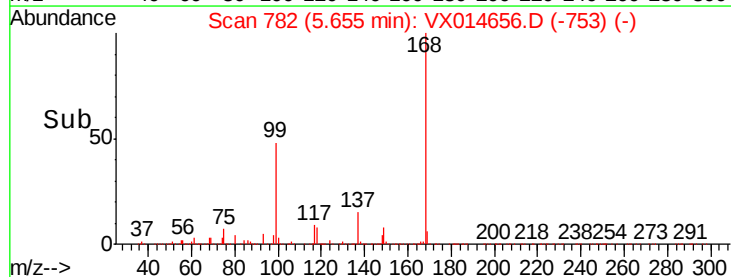
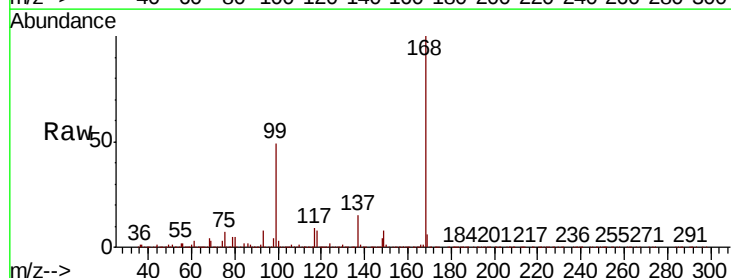
Tgt Ion: 117 Resp: 41140

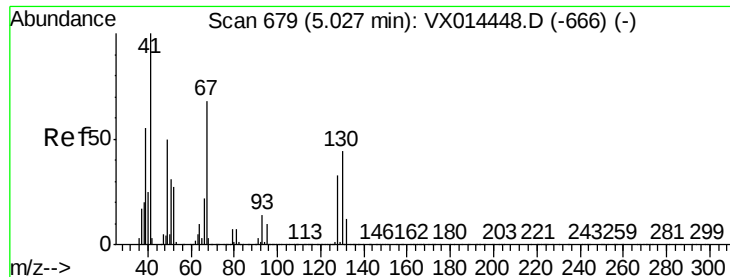
Ion Ratio Lower Upper

117 100

119 4.5 73.8 110.8#

121 0.3 23.4 35.0#

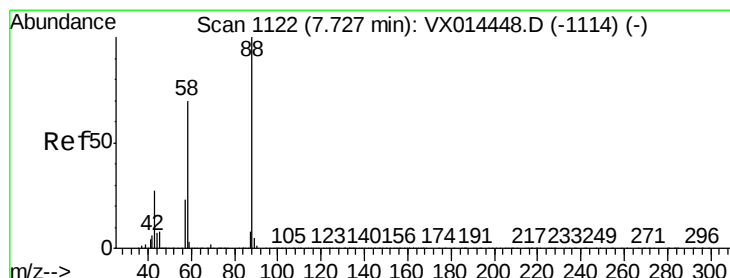
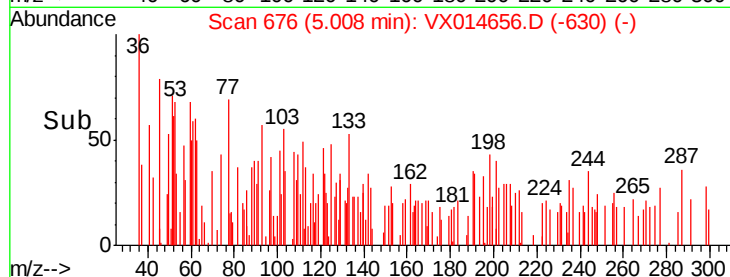
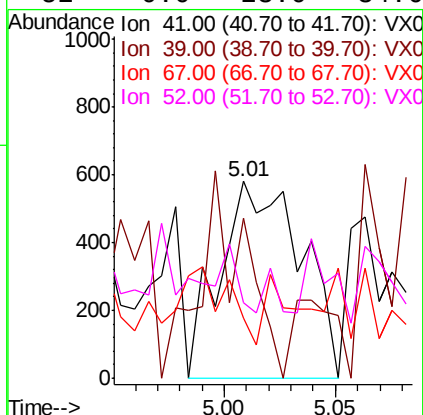
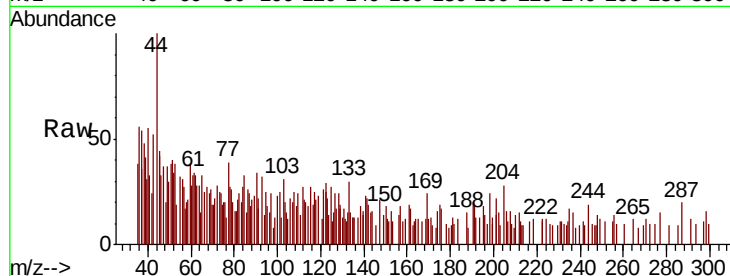




#41
Methacrylonitrile
Concen: 0.390 ug/l
RT: 5.01 min Scan# 676
Delta R.T. -0.02 min
Lab File: VX014656.D
Acq: 17 Jan 2020 15:44

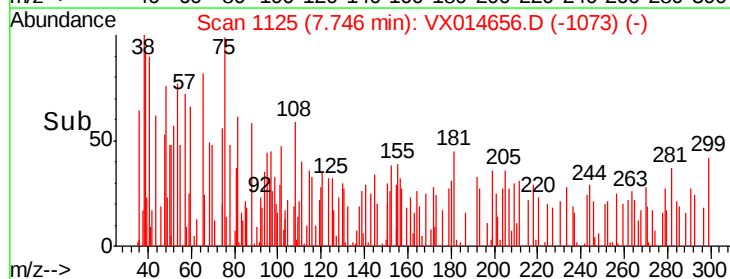
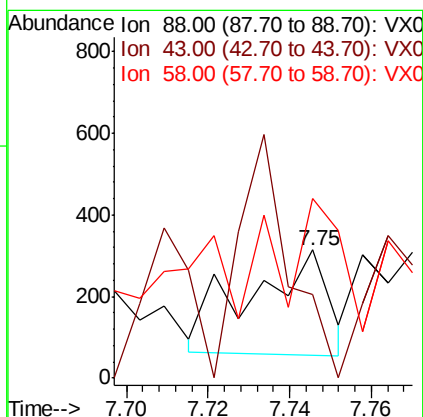
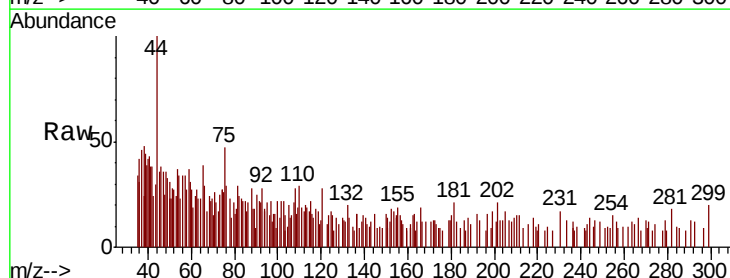
Instrument :
MSVOA_X
ClientSampleID :

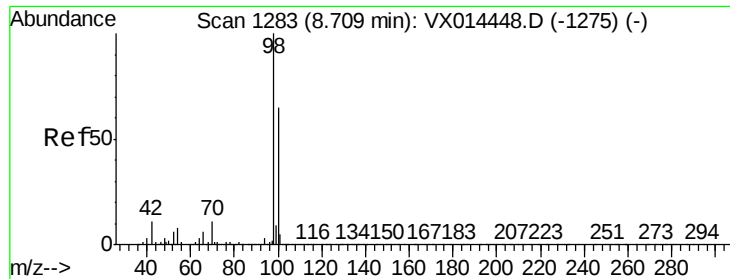
Tot Ion:	41	Resp:	1480
Ion	Ratio	Lower	Upper
41	100		
39	0.0	43.6	65.4#
67	13.0	57.9	86.9#
52	0.0	23.0	34.6#



#49
1,4-Dioxane
Concen: 2.915 ug/l
RT: 7.75 min Scan# 1125
Delta R.T. 0.02 min
Lab File: VX014656.D
Acq: 17 Jan 2020 15:44

Tgt Ion:	88	Resp:	340
Ion	Ratio	Lower	Upper
88	100		
43	149.1	27.4	41.0#
58	99.4	57.1	85.7#





#50

Toluene-d8

Concen: 50.866 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014656.D

Acq: 17 Jan 2020 15:44

Instrument :

MSVOA_X

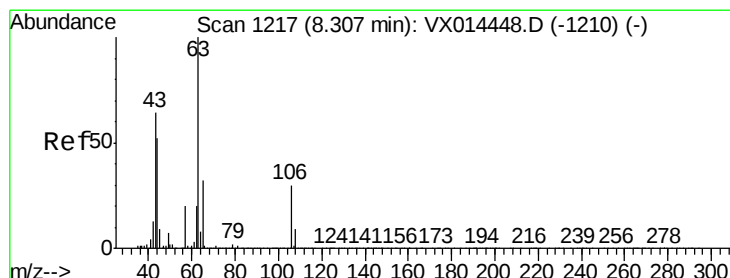
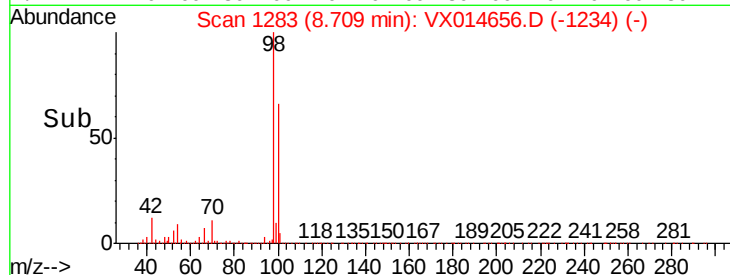
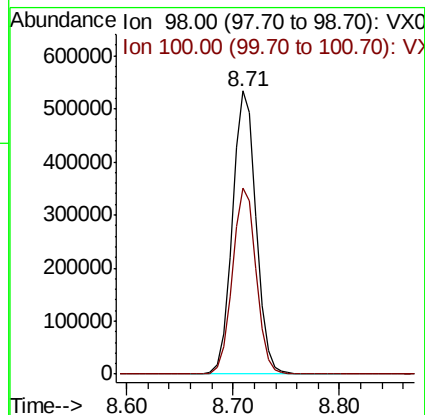
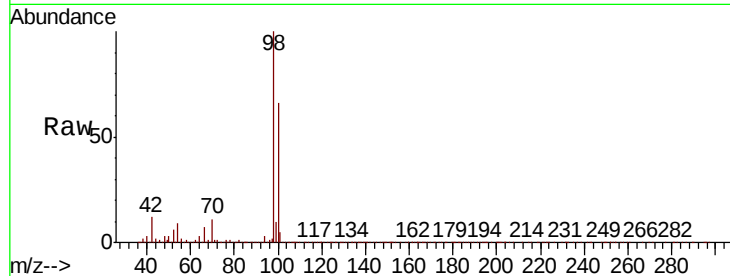
ClientSampleId :

Tot Ion: 98 Resp: 832192

Ion Ratio Lower Upper

98 100

100 65.8 53.2 79.8



#58

2-Chloroethyl Vinyl ether

Concen: 0.221 ug/l

RT: 8.54 min Scan# 1255

Delta R.T. 0.23 min

Lab File: VX014656.D

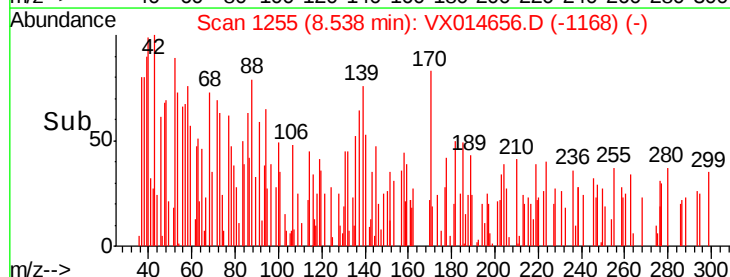
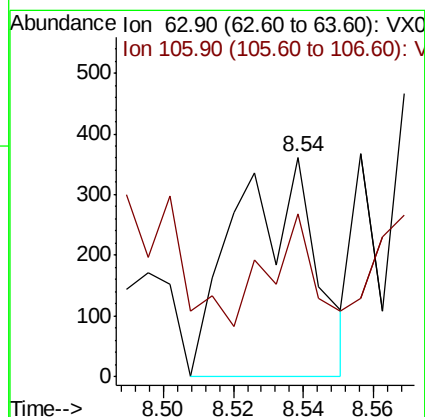
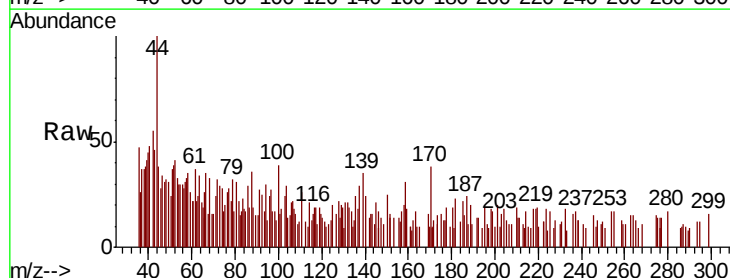
Acq: 17 Jan 2020 15:44

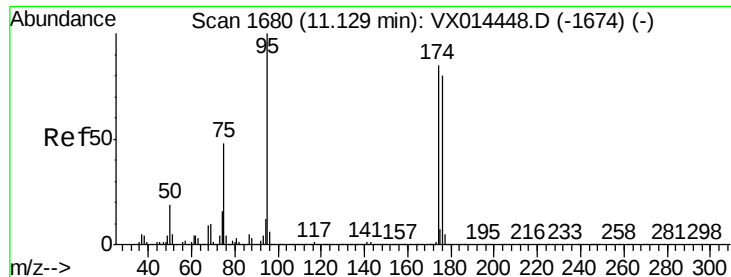
Tgt Ion: 63 Resp: 575

Ion Ratio Lower Upper

63 100

106 28.0 23.6 35.4

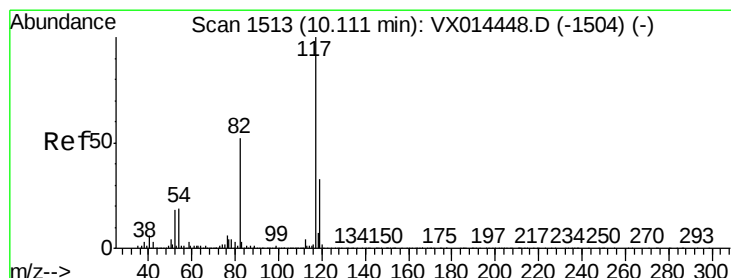
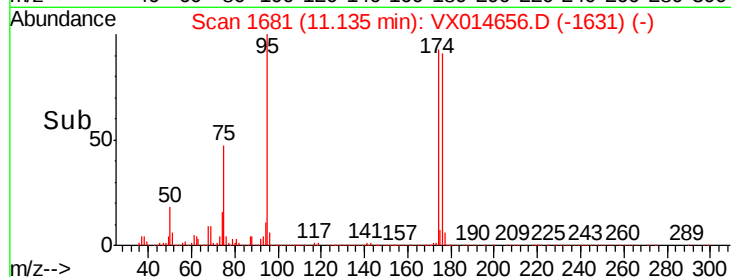
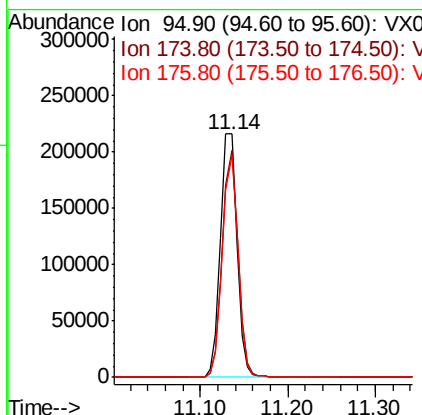
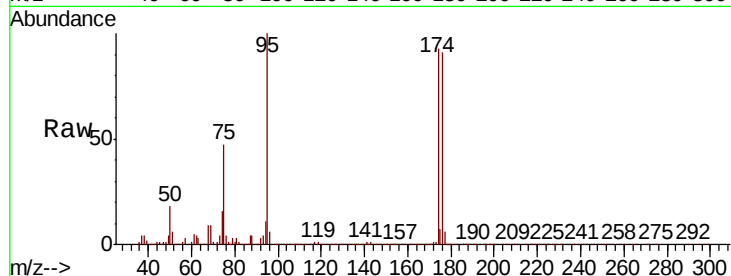




#62
4-Bromofluorobenzene
Concen: 46.977 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. 0.01 min
Lab File: VX014656.D
Acq: 17 Jan 2020 15:44

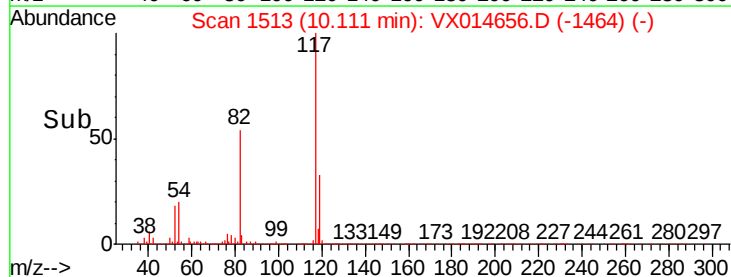
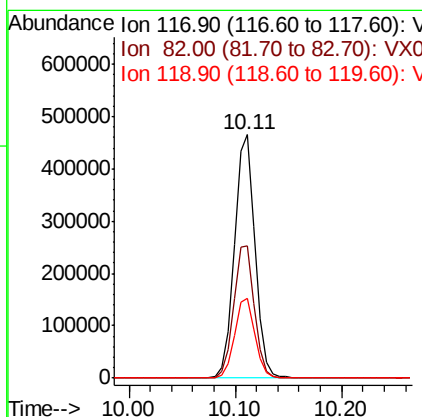
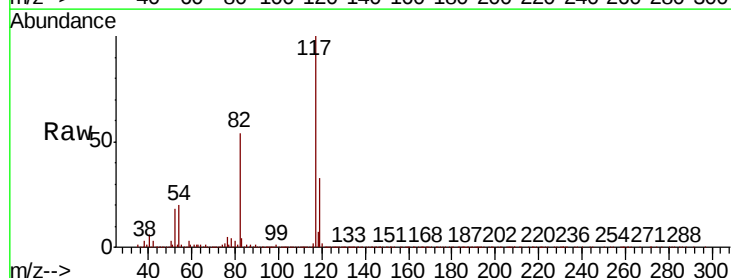
Instrument :
MSVOA_X
ClientSampleId :

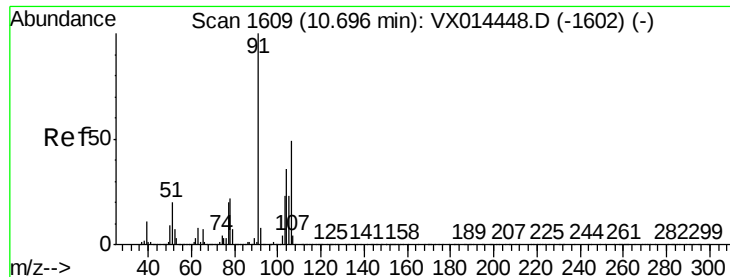
Tot Ion	Ratio	Lower	Upper
95	100		
174	89.1	0.0	180.8
176	86.5	0.0	172.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX014656.D
Acq: 17 Jan 2020 15:44

Tgt Ion	Ratio	Lower	Upper
117	100		
82	54.1	41.8	62.6
119	32.7	26.2	39.4

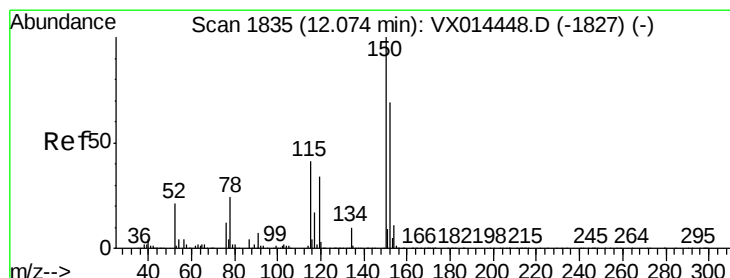
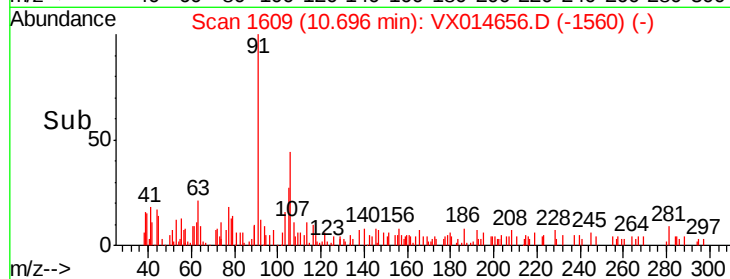
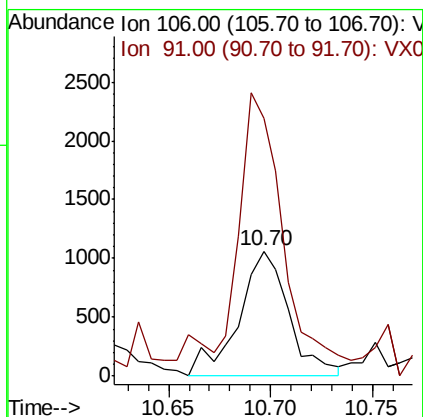
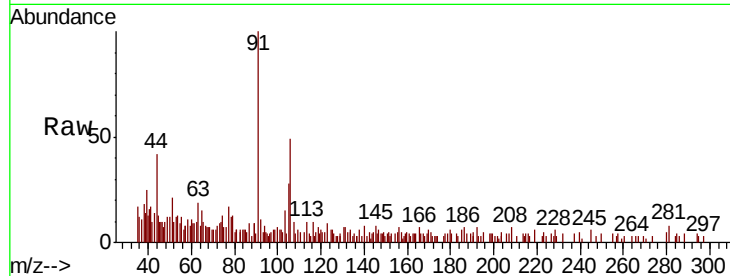




#69
o-Xylene
Concen: 0.212 ug/l
RT: 10.70 min Scan# 1609
Delta R.T. 0.00 min
Lab File: VX014656.D
Acq: 17 Jan 2020 15:44

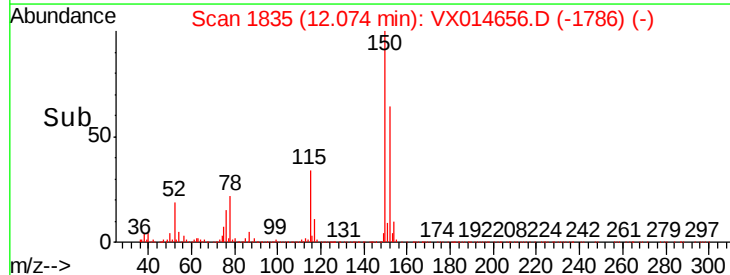
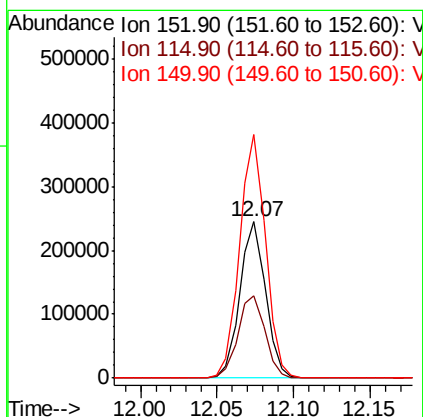
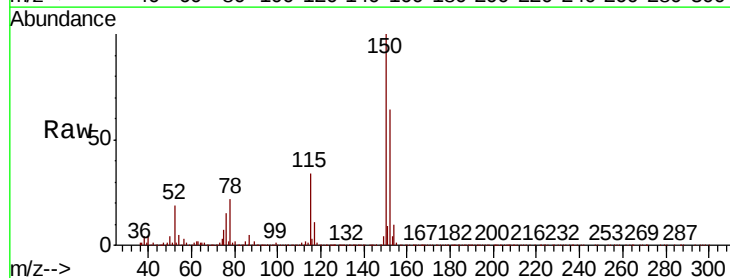
Instrument :
MSVOA_X
ClientSampled :

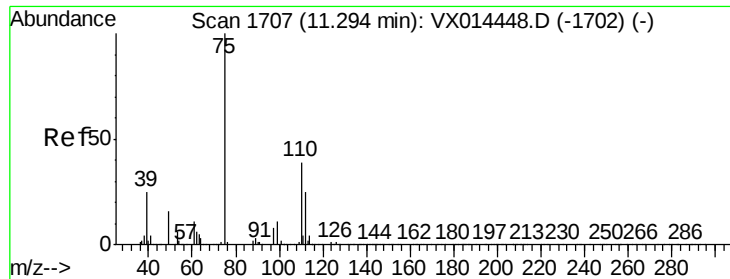
Tot Ion:106 Resp: 1817
Ion Ratio Lower Upper
106 100
91 198.0 105.1 315.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX014656.D
Acq: 17 Jan 2020 15:44

Tgt Ion:152 Resp: 286551
Ion Ratio Lower Upper
152 100
115 55.3 39.5 118.3
150 156.3 0.0 350.2

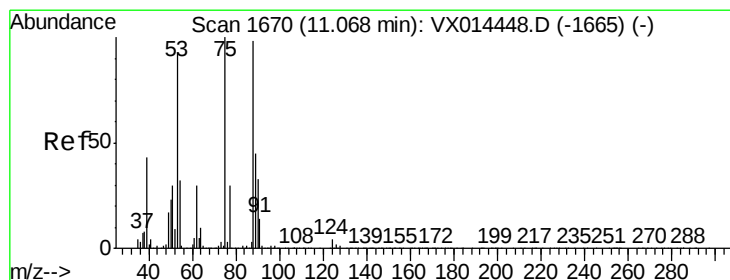
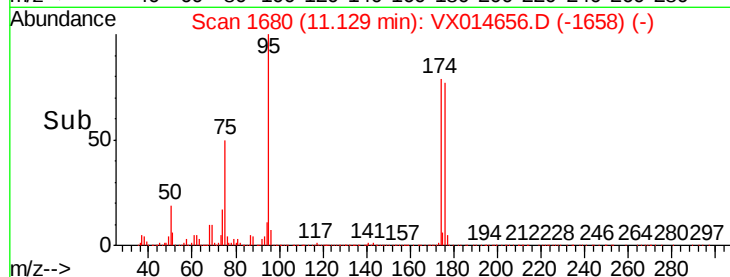
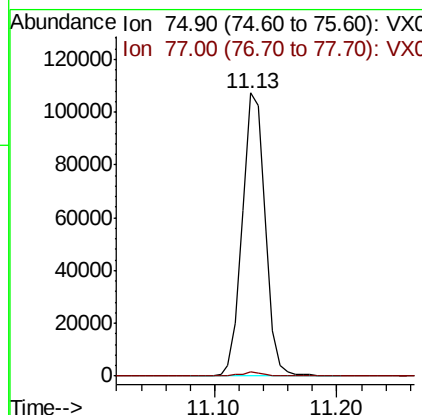
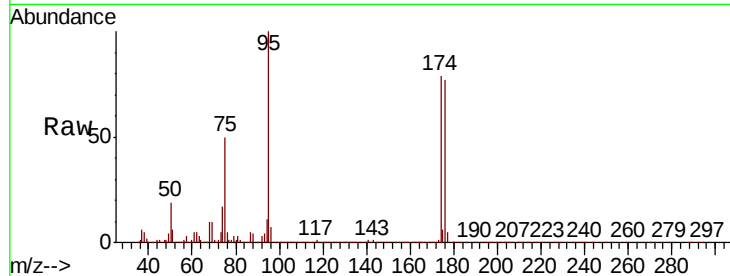




#76
 1,2,3-Trichloropropane
 Concen: 23.355 ug/l
 RT: 11.13 min Scan# 1680
 Delta R.T. -0.16 min
 Lab File: VX014656.D
 Acq: 17 Jan 2020 15:44

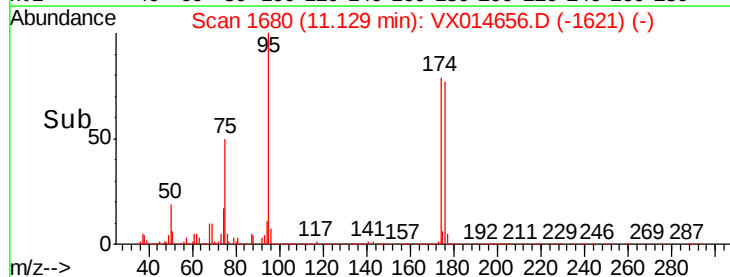
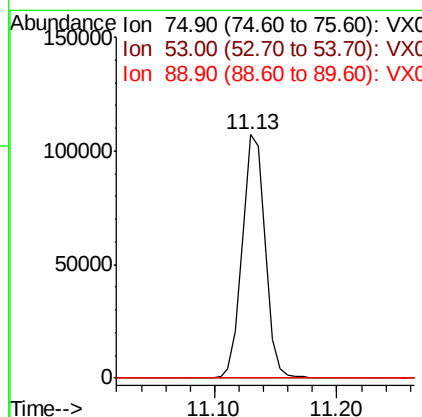
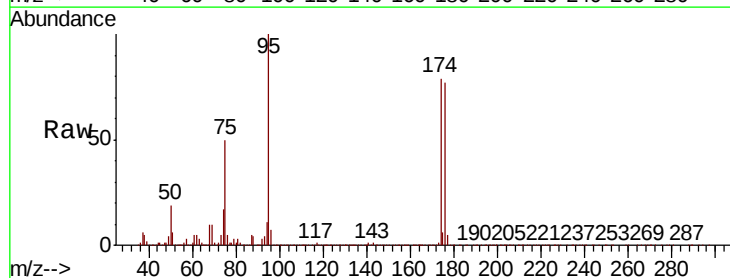
Instrument :
 MSVOA_X
 ClientSampleId :

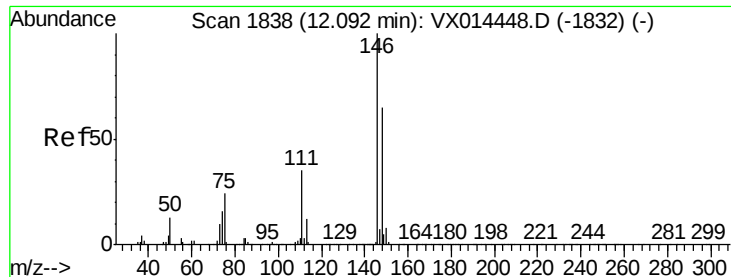
Tot Ion: 75 Resp: 138470
 Ion Ratio Lower Upper
 75 100
 77 1.5 21.9 65.7#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 61.748 ug/l
 RT: 11.13 min Scan# 1680
 Delta R.T. 0.06 min
 Lab File: VX014656.D
 Acq: 17 Jan 2020 15:44

Tgt Ion: 75 Resp: 138470
 Ion Ratio Lower Upper
 75 100
 53 0.3 74.8 112.2#
 89 0.0 36.3 54.5#





#88

1,4-Dichlorobenzene

Concen: Below Cal

RT: 12.10 min Scan# 1839

Delta R.T. 0.01 min

Lab File: VX014656.D

Acq: 17 Jan 2020 15:44

Instrument :

MSVOA_X

ClientSampleId :

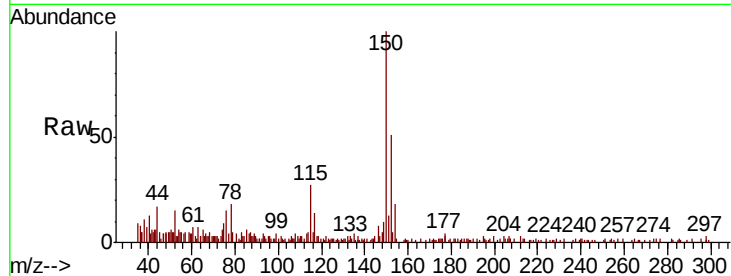
Tot Ion:146 Resp: 745

Ion Ratio Lower Upper

146 100

111 21.9 18.1 54.1

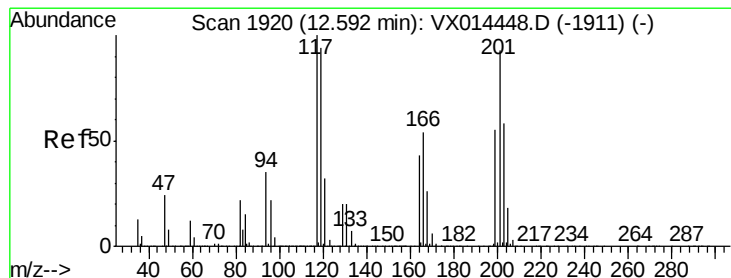
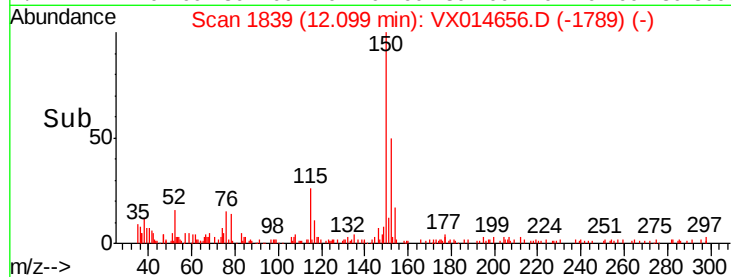
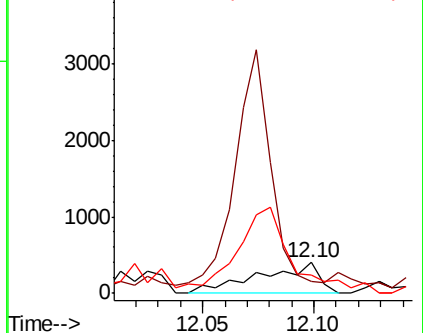
148 0.0 32.1 96.3#



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#90

Hexachloroethane

Concen: 0.239 ug/l

RT: 12.59 min Scan# 1919

Delta R.T. -0.01 min

Lab File: VX014656.D

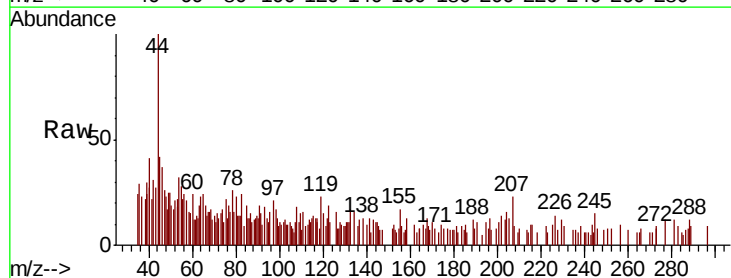
Acq: 17 Jan 2020 15:44

Tgt Ion:117 Resp: 763

Ion Ratio Lower Upper

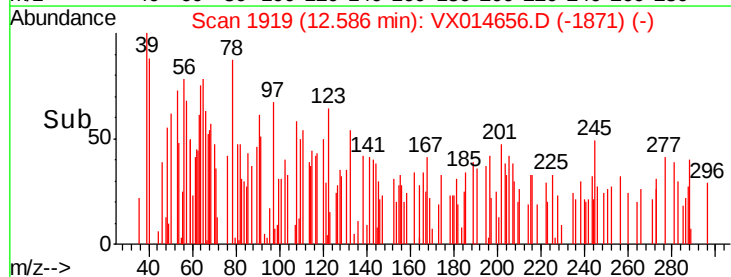
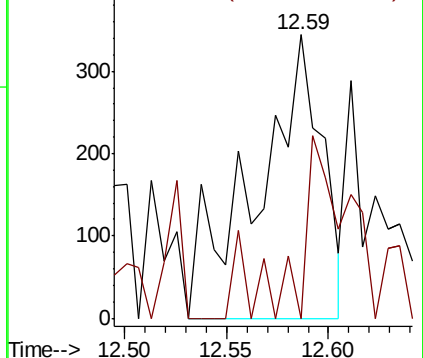
117 100

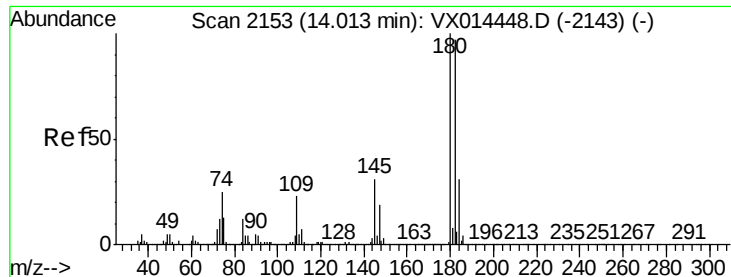
201 41.0 44.8 134.3#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V





#96
 1,2,3-Trichlorobenzene
 Concen: Below Cal
 RT: 14.00 min Scan# 2151
 Delta R.T. -0.01 min
 Lab File: VX014656.D
 Acq: 17 Jan 2020 15:44

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	133.3	47.9	143.6
145	66.7	14.8	44.3#

