

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX011720\
 Data File : VX014659.D
 Acq On : 17 Jan 2020 16:54
 Operator : JC/SP
 Sample : L1162-09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jan 18 05:09:30 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	435272	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	670981	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	597452	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	264258	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	247200	50.87	ug/l	0.00
Spiked Amount						
35) Dibromofluoromethane	5.48	113	203515	50.11	ug/l	0.00
Spiked Amount						
50) Toluene-d8	8.71	98	790733	50.17	ug/l	0.00
Spiked Amount						
62) 4-Bromofluorobenzene	11.13	95	257079	44.43	ug/l	0.00
Spiked Amount						

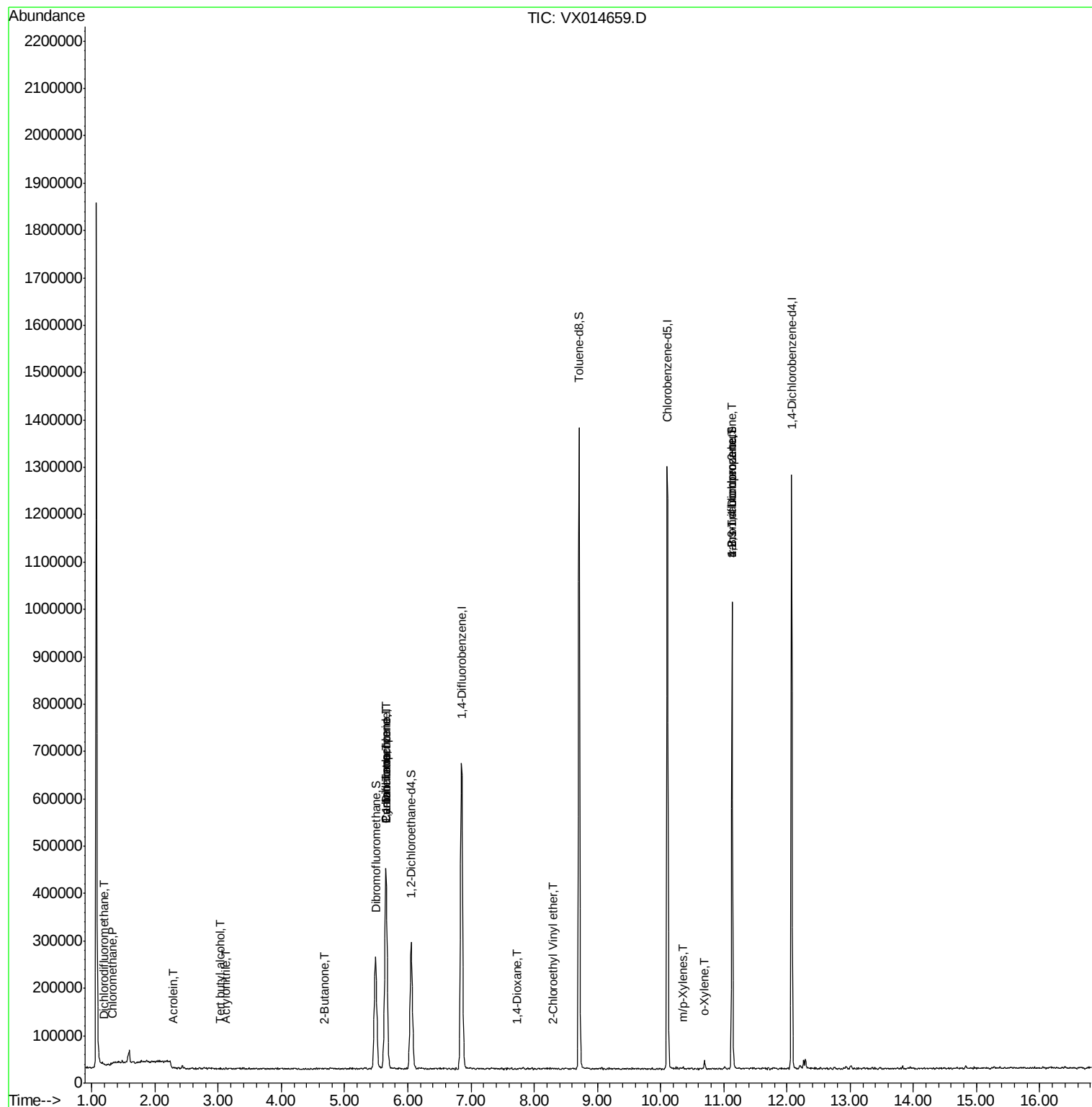
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	369	0.320	ug/l	99
3) Chloromethane	1.32	50	1723	0.311	ug/l	100
6) Chloroethane	1.72	64	182	Below Cal	#	58
11) Tert butyl alcohol	3.03	59	1476	1.455	ug/l #	25
13) Acrolein	2.28	56	191	0.235	ug/l #	62
15) Acrylonitrile	3.13	53	620	0.253	ug/l #	17
16) Acetone	2.43	43	5858	Below Cal		96
25) 2-Butanone	4.68	43	744	0.205	ug/l #	49
31) Cyclohexane	5.65	56	8162	1.099	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	30045	4.762	ug/l #	51
38) Carbon Tetrachloride	5.65	117	36294	6.250	ug/l #	18
49) 1,4-Dioxane	7.73	88	496	4.414	ug/l #	50
58) 2-Chloroethyl Vinyl ether	8.30	63	663	0.264	ug/l	92
68) m/p-Xylenes	10.35	106	1768	0.207	ug/l	85
69) o-Xylene	10.70	106	5104	0.627	ug/l	80
76) 1,2,3-Trichloropropane	11.13	75	128561	23.513	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	128561	62.165	ug/l #	12
88) 1,4-Dichlorobenzene	12.09	146	684	Below Cal	#	1
93) 1,2,4-Trichlorobenzene	13.63	180	379	Below Cal	#	83
96) 1,2,3-Trichlorobenzene	13.99	180	186	Below Cal	#	1

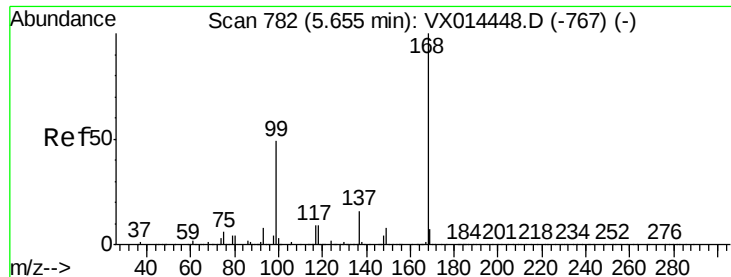
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX014659.D

Acq: 17 Jan 2020 16:54

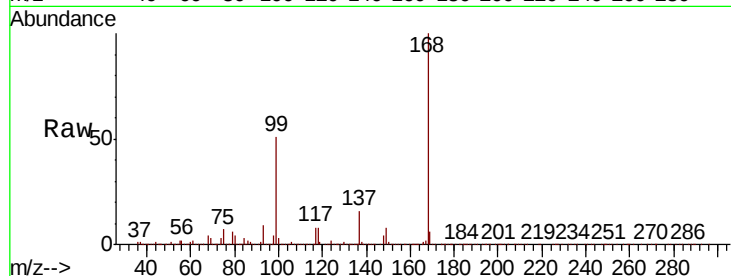
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 435272

Ion Ratio Lower Upper

168 100

99 50.4 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

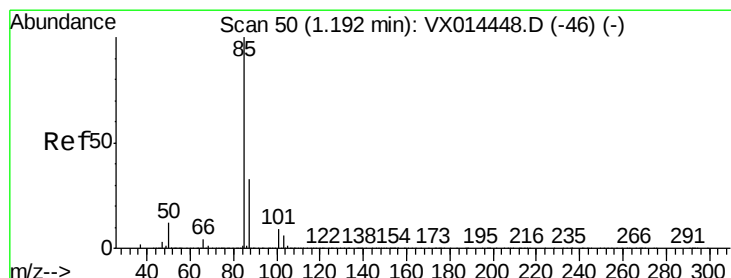
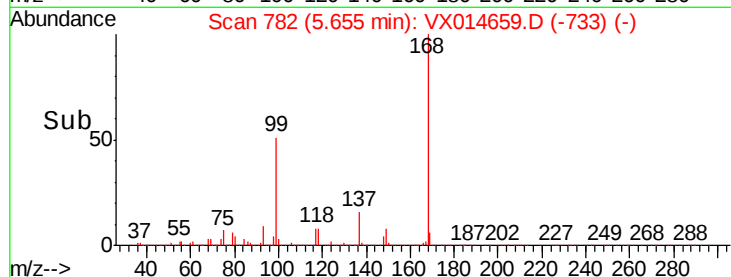
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.320 ug/l

RT: 1.20 min Scan# 51

Delta R.T. 0.01 min

Lab File: VX014659.D

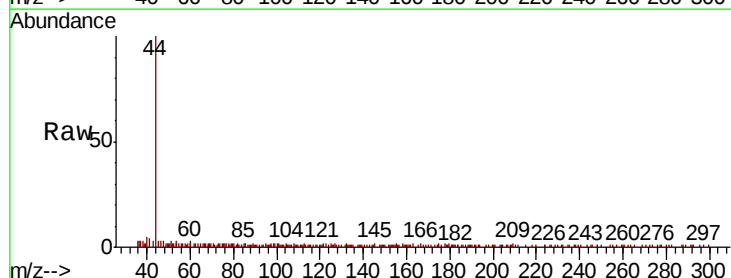
Acq: 17 Jan 2020 16:54

Tgt Ion: 85 Resp: 369

Ion Ratio Lower Upper

85 100

87 33.7 16.5 49.5



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

400

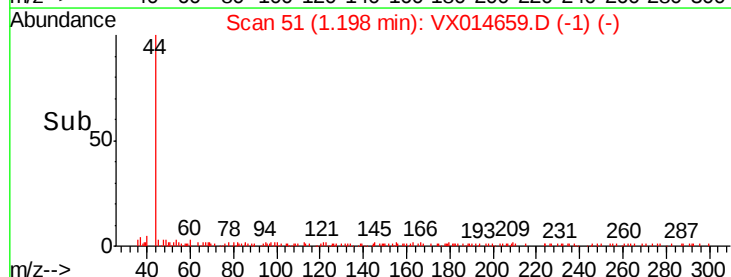
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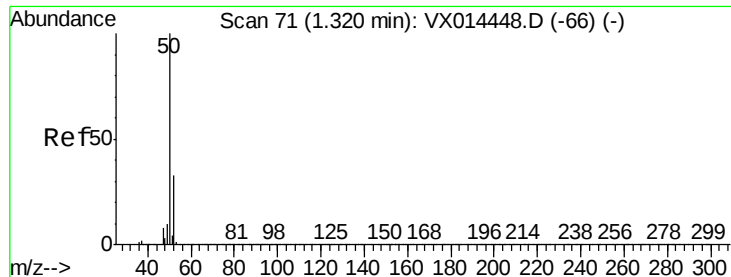
200

100

0

Time-->





#3

Chloromethane

Concen: 0.311 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX014659.D

Acq: 17 Jan 2020 16:54

Instrument :

MSVOA_X

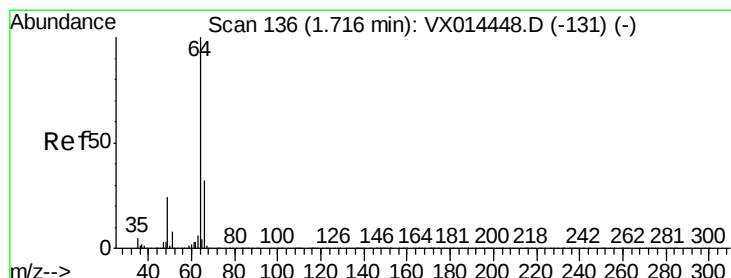
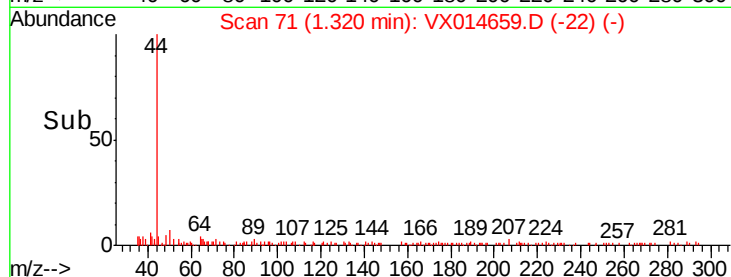
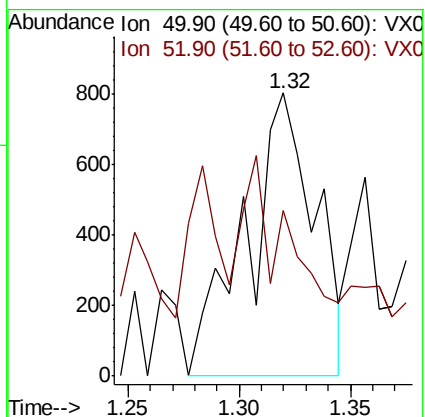
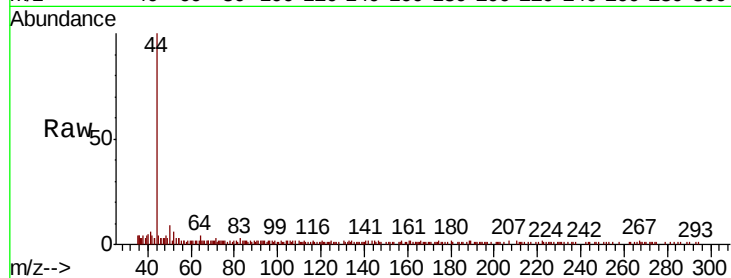
ClientSampleId :

Tot Ion: 50 Resp: 1723

Ion Ratio Lower Upper

50 100

52 32.4 26.1 39.1



#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 137

Delta R.T. 0.01 min

Lab File: VX014659.D

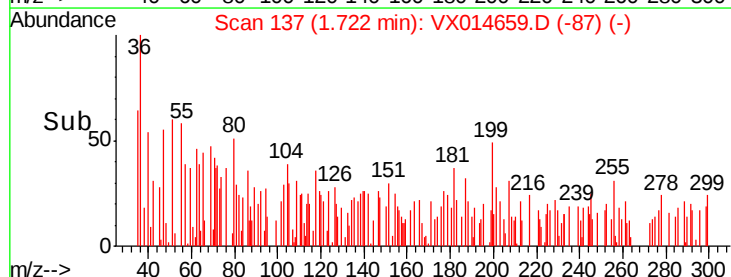
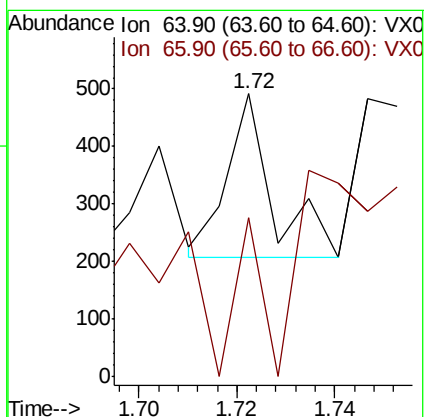
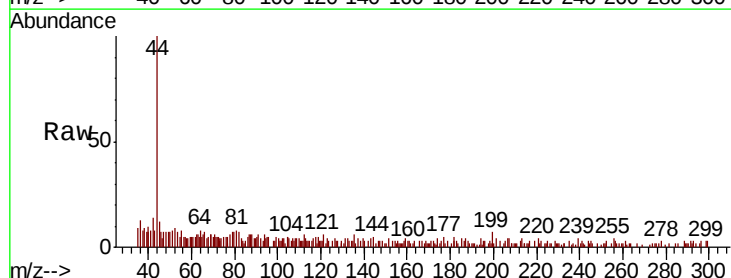
Acq: 17 Jan 2020 16:54

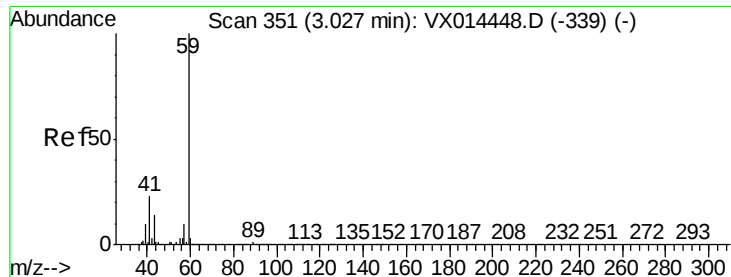
Tgt Ion: 64 Resp: 182

Ion Ratio Lower Upper

64 100

66 8.5 25.3 37.9#



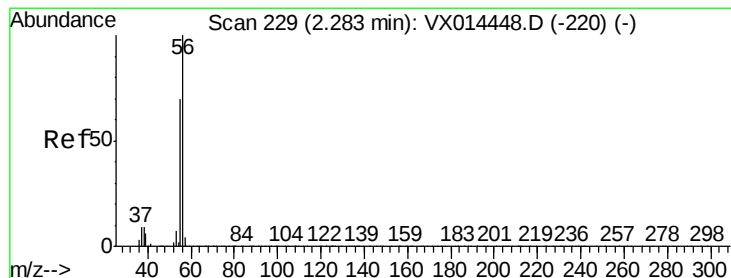
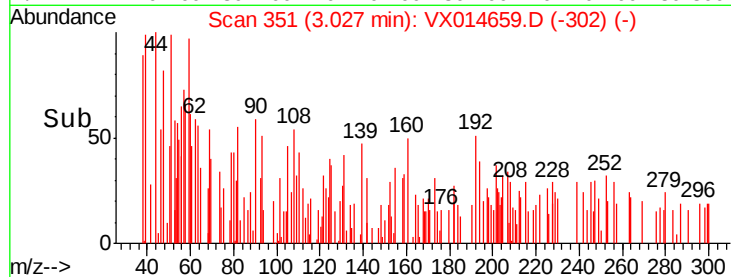
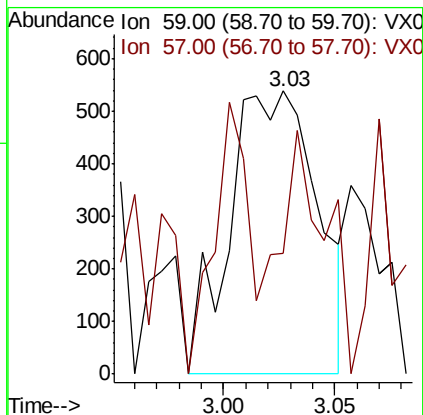
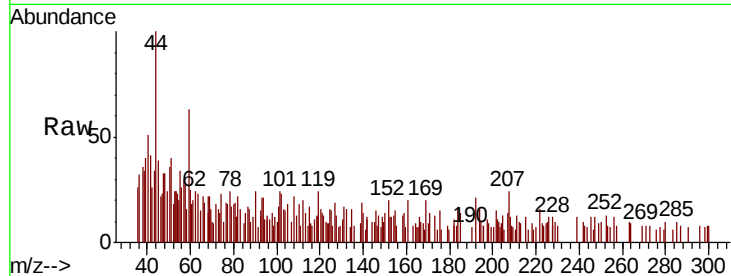


#11

Tert butyl alcohol
 Concen: 1.455 ug/l
 RT: 3.03 min Scan# 351
 Delta R.T. 0.00 min
 Lab File: VX014659.D
 Acq: 17 Jan 2020 16:54

Instrument :
 MSVOA_X
 ClientSampleId :

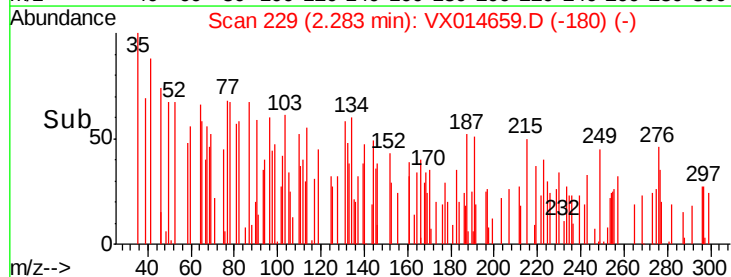
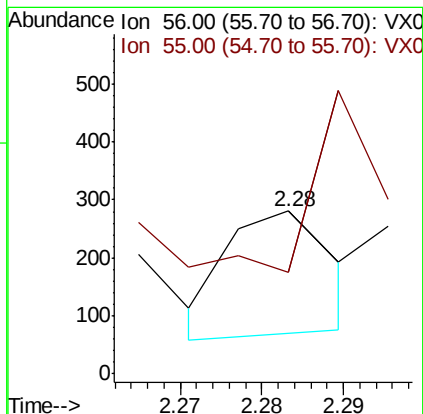
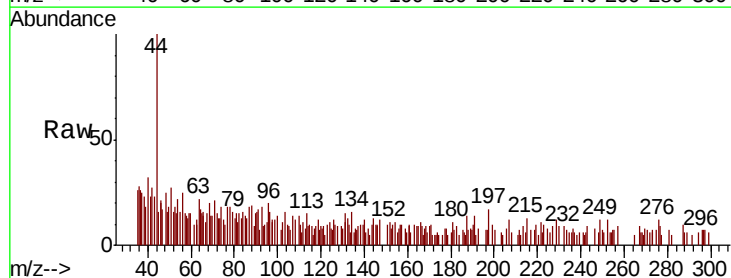
Tot Ion: 59 Resp: 1476
 Ion Ratio Lower Upper
 59 100
 57 38.9 8.5 12.7#

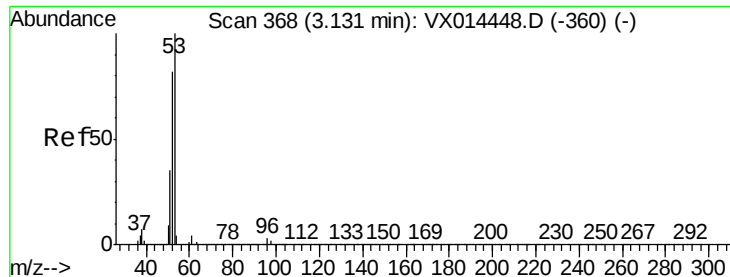


#13

Acrolein
 Concen: 0.235 ug/l
 RT: 2.28 min Scan# 229
 Delta R.T. 0.00 min
 Lab File: VX014659.D
 Acq: 17 Jan 2020 16:54

Tgt Ion: 56 Resp: 191
 Ion Ratio Lower Upper
 56 100
 55 100.0 55.0 82.6#





#15

Acrylonitrile

Concen: 0.253 ug/l

RT: 3.13 min Scan# 368

Delta R.T. 0.00 min

Lab File: VX014659.D

Acq: 17 Jan 2020 16:54

Instrument :

MSVOA_X

ClientSampled :

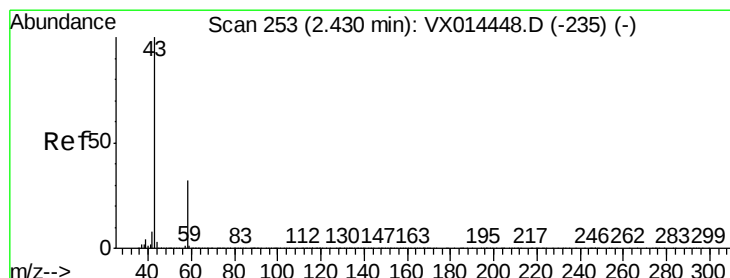
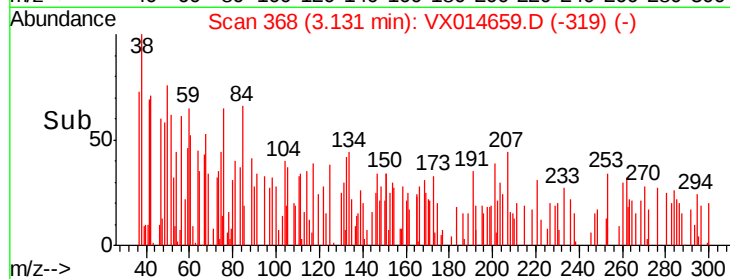
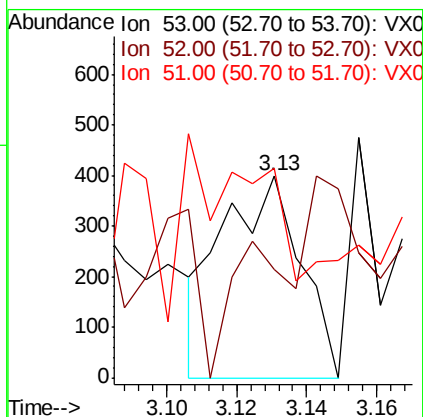
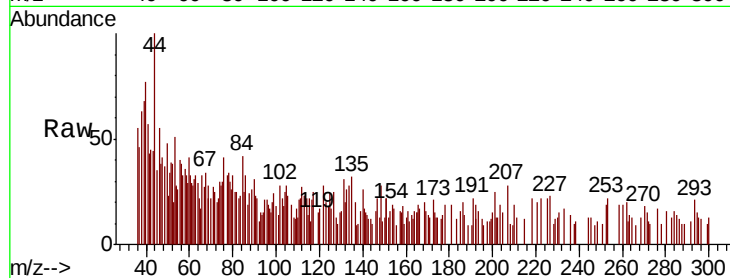
Tot Ion: 53 Resp: 620

Ion Ratio Lower Upper

53 100

52 0.0 67.0 100.4#

51 0.0 28.5 42.7#



#16

Acetone

Concen: Below Cal

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX014659.D

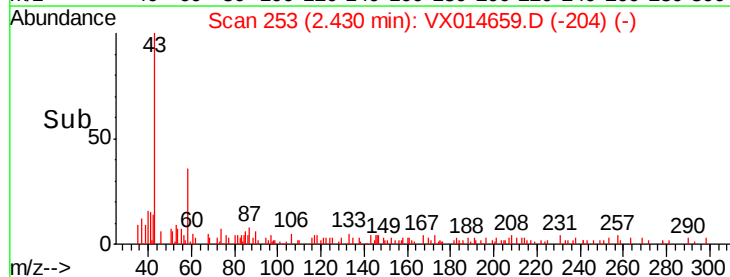
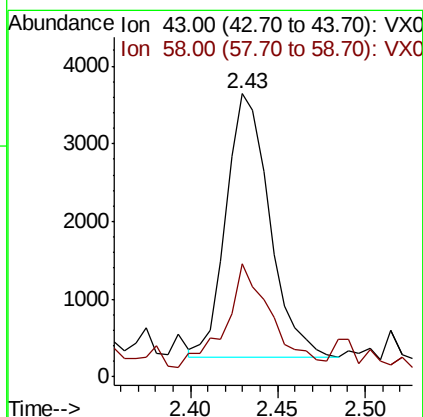
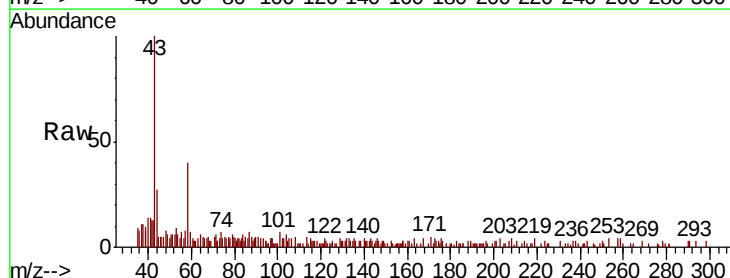
Acq: 17 Jan 2020 16:54

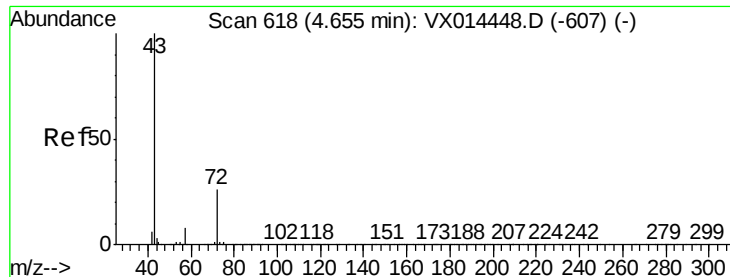
Tgt Ion: 43 Resp: 5858

Ion Ratio Lower Upper

43 100

58 34.2 25.4 38.0

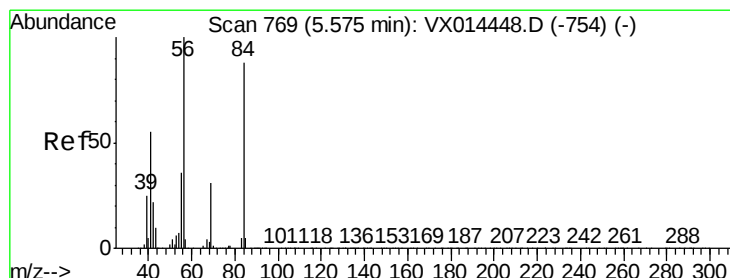
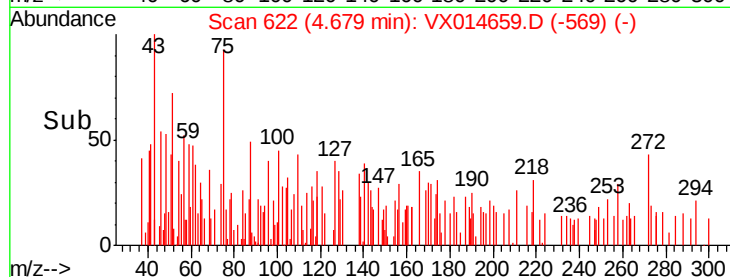
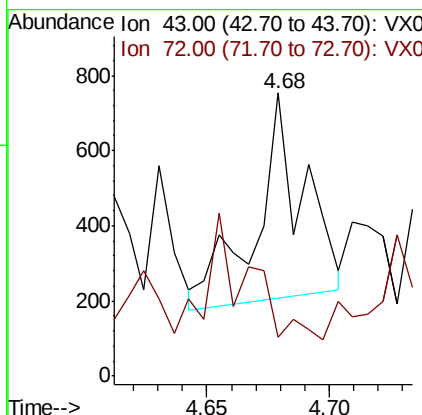
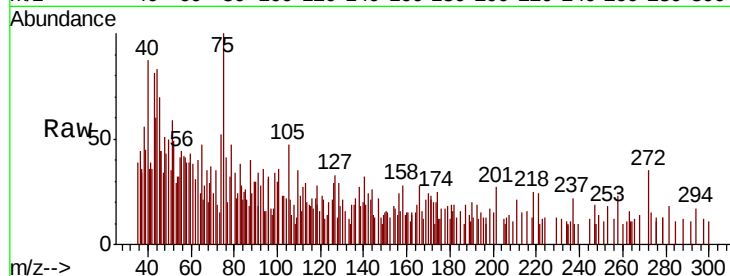




#25
2-Butanone
Concen: 0.205 ug/l
RT: 4.68 min Scan# 622
Delta R.T. 0.02 min
Lab File: VX014659.D
Acq: 17 Jan 2020 16:54

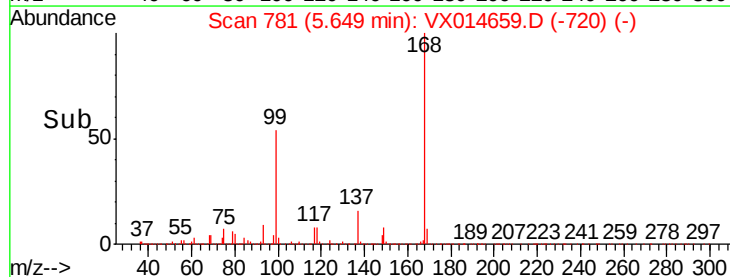
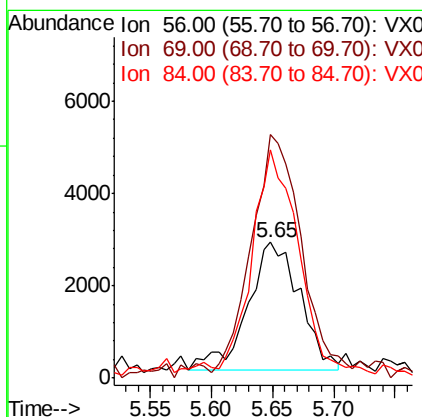
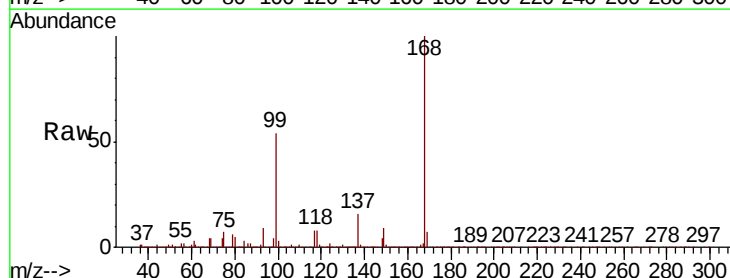
Instrument :
MSVOA_X
ClientSampled :

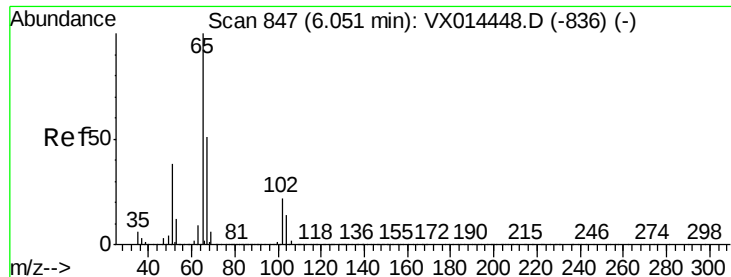
Tot Ion: 43 Resp: 744
Ion Ratio Lower Upper
43 100
72 0.0 20.6 31.0#



#31
Cyclohexane
Concen: 1.099 ug/l
RT: 5.65 min Scan# 781
Delta R.T. 0.07 min
Lab File: VX014659.D
Acq: 17 Jan 2020 16:54

Tgt Ion: 56 Resp: 8162
Ion Ratio Lower Upper
56 100
69 194.3 24.4 36.6#
84 180.8 70.6 106.0#

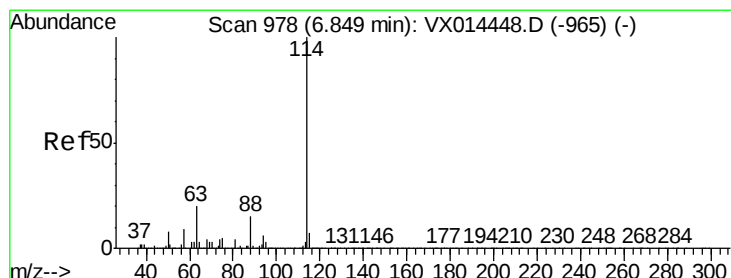
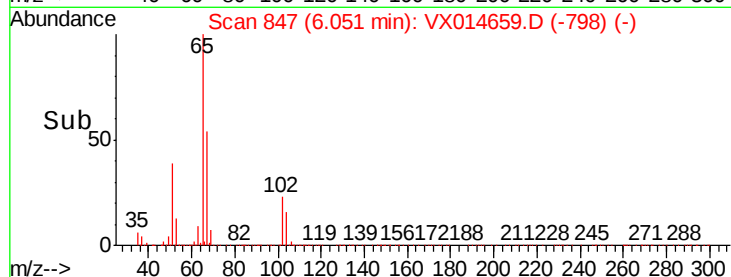
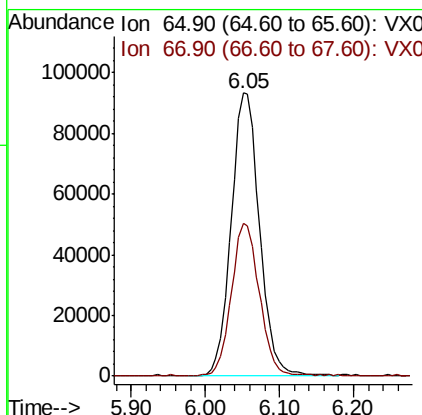
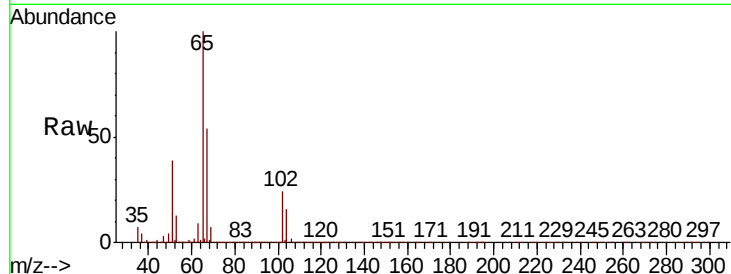




#33
 1,2-Dichloroethane-d4
 Concen: 50.874 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. 0.00 min
 Lab File: VX014659.D
 Acq: 17 Jan 2020 16:54

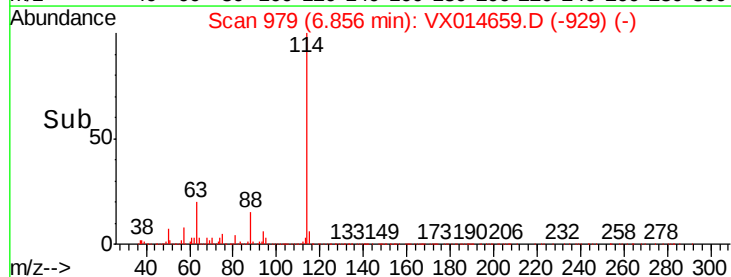
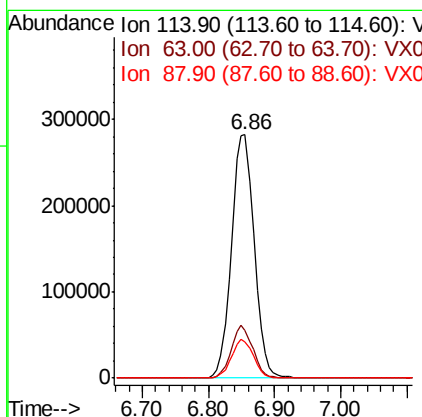
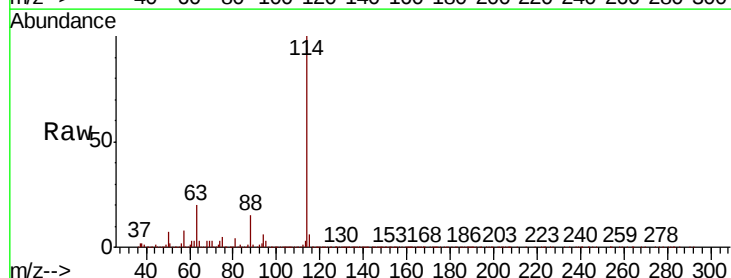
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 MSVOA_X
 ClientSampleId :

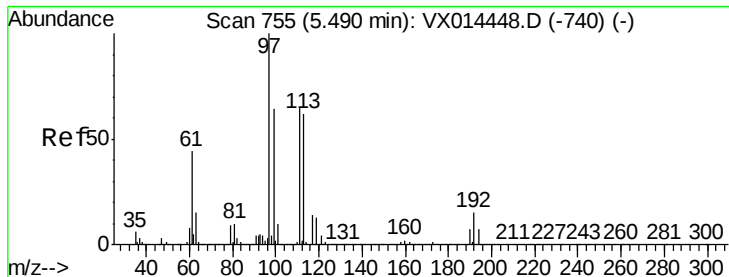
Tot Ion: 65 Resp: 247200
 Ion Ratio Lower Upper
 65 100
 67 53.6 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 979
 Delta R.T. 0.01 min
 Lab File: VX014659.D
 Acq: 17 Jan 2020 16:54

Tgt Ion: 114 Resp: 670981
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 39.6
 88 15.0 0.0 30.8





#35

Dibromofluoromethane

Concen: 50.105 ug/l

RT: 5.48 min Scan# 754

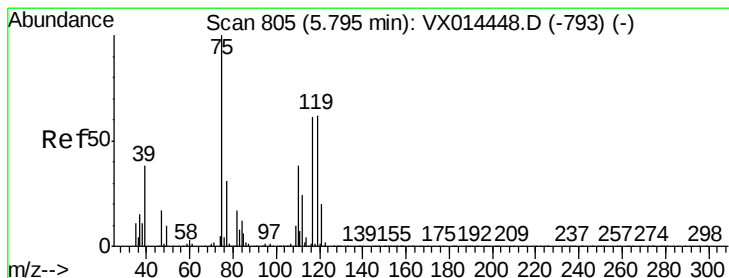
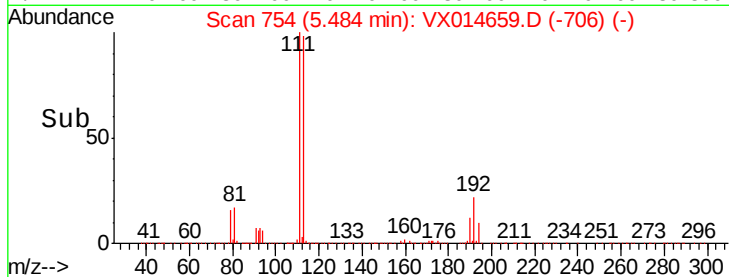
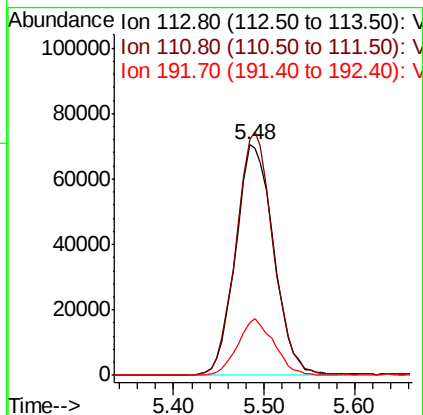
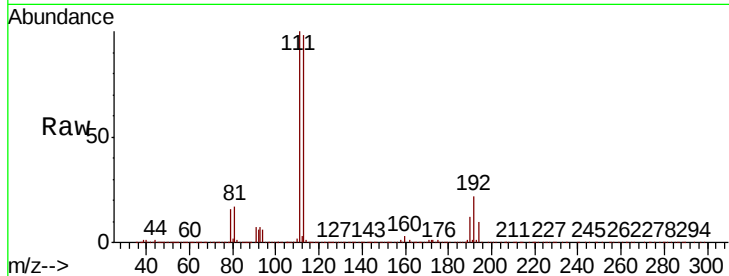
Delta R.T. -0.01 min

Lab File: VX014659.D

Acq: 17 Jan 2020 16:54

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:	113	Resp:	203515
Ion	Ratio	Lower	Upper
113	100		
111	103.5	81.5	122.3
192	23.7	19.2	28.8



#36

1,1-Dichloropropene

Concen: 4.762 ug/l

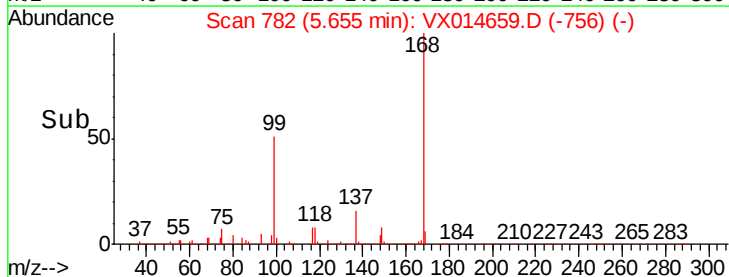
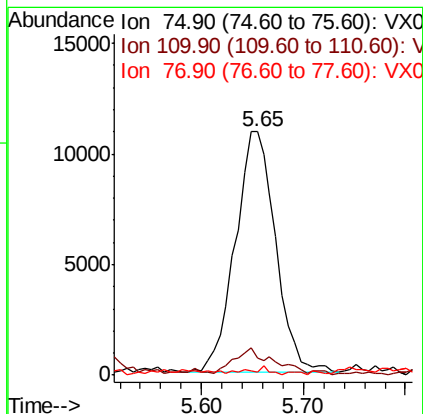
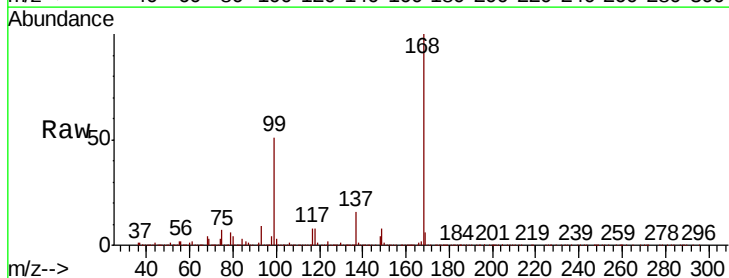
RT: 5.65 min Scan# 782

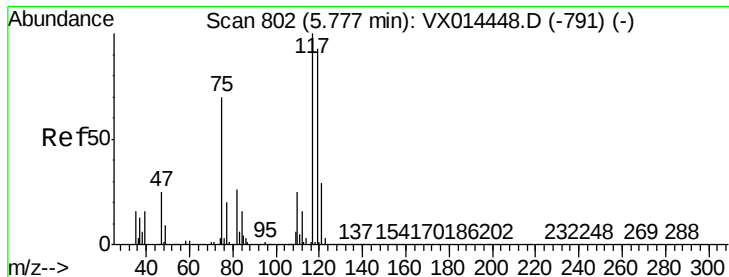
Delta R.T. -0.14 min

Lab File: VX014659.D

Acq: 17 Jan 2020 16:54

Tgt Ion:	75	Resp:	30045
Ion	Ratio	Lower	Upper
75	100		
110	9.2	18.6	55.8#
77	2.0	24.5	36.7#





#38

Carbon Tetrachloride

Concen: 6.250 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX014659.D

Acq: 17 Jan 2020 16:54

Instrument :

MSVOA_X

ClientSampleId :

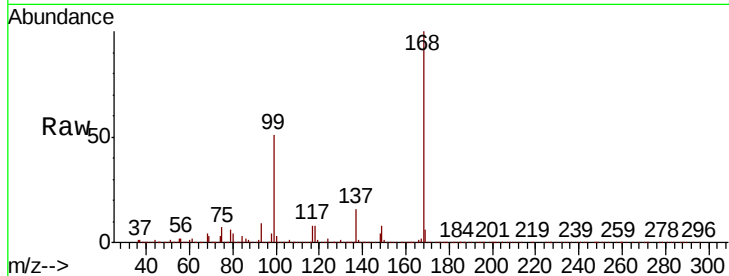
Tot Ion:117 Resp: 36294

Ion Ratio Lower Upper

117 100

119 5.3 73.8 110.8#

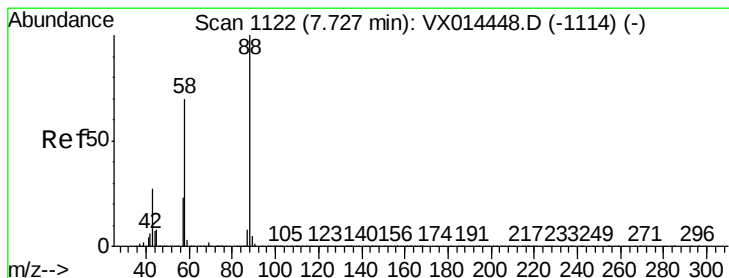
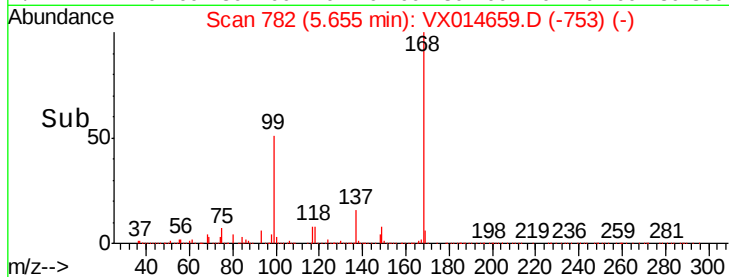
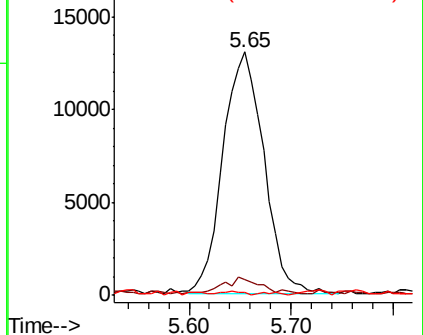
121 0.1 23.4 35.0#



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: 4.414 ug/l

RT: 7.73 min Scan# 1122

Delta R.T. 0.00 min

Lab File: VX014659.D

Acq: 17 Jan 2020 16:54

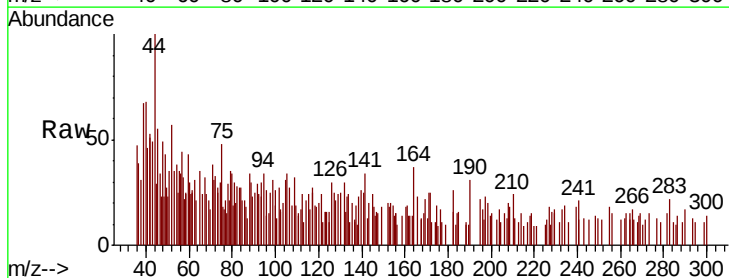
Tgt Ion: 88 Resp: 496

Ion Ratio Lower Upper

88 100

43 72.2 27.4 41.0#

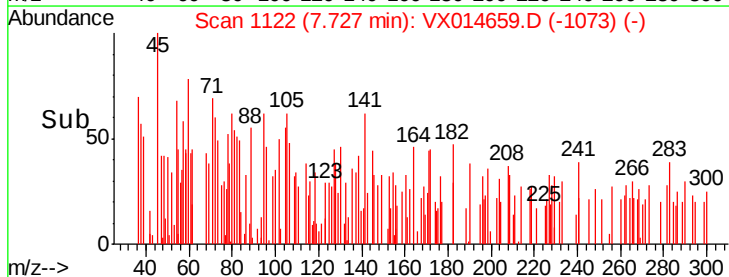
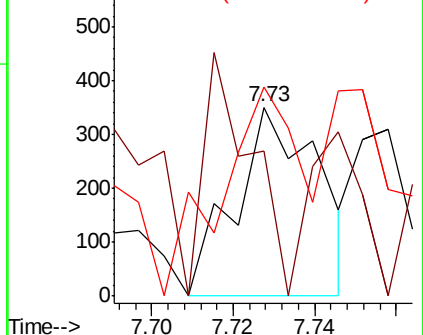
58 106.9 57.1 85.7#

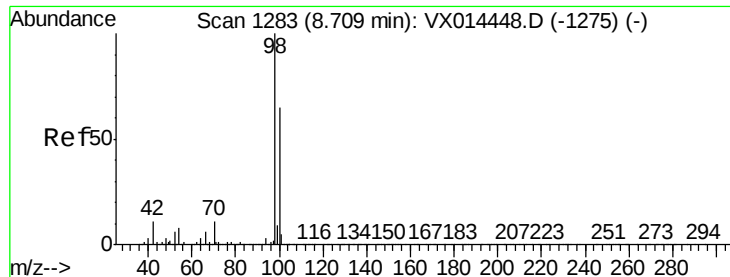


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.166 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014659.D

Acq: 17 Jan 2020 16:54

Instrument :

MSVOA_X

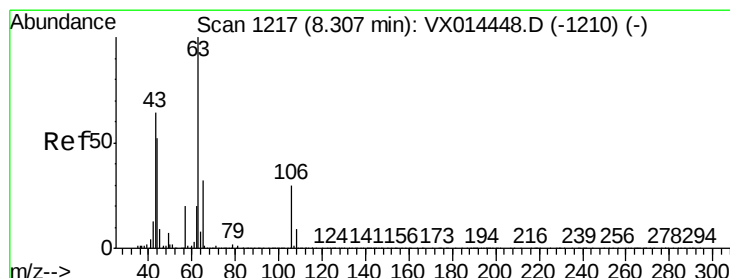
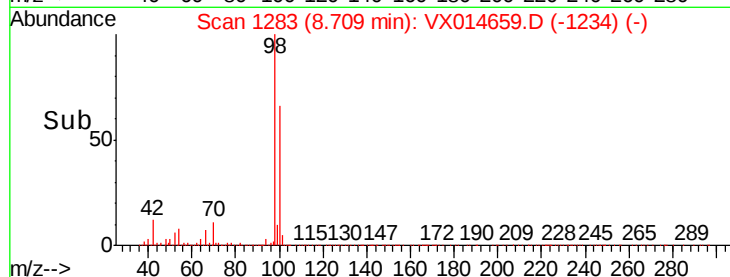
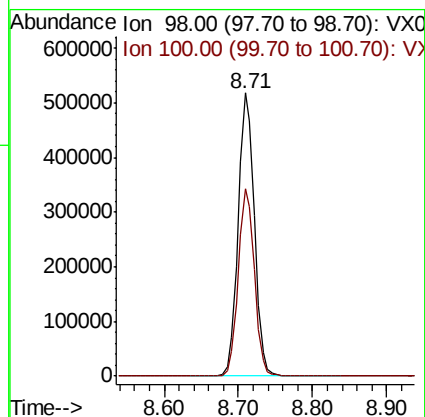
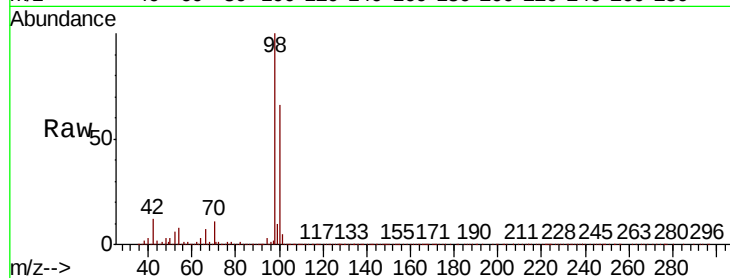
ClientSampled :

Tot Ion: 98 Resp: 790733

Ion Ratio Lower Upper

98 100

100 66.1 53.2 79.8



#58

2-Chloroethyl Vinyl ether

Concen: 0.264 ug/l

RT: 8.30 min Scan# 1216

Delta R.T. -0.01 min

Lab File: VX014659.D

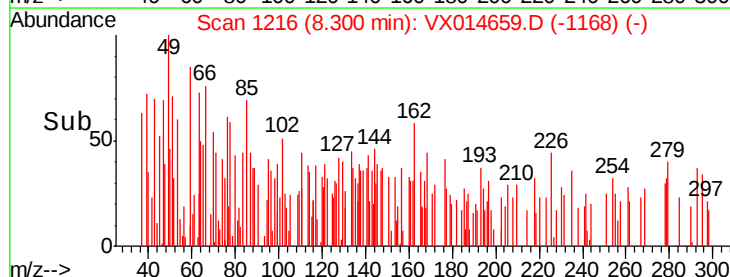
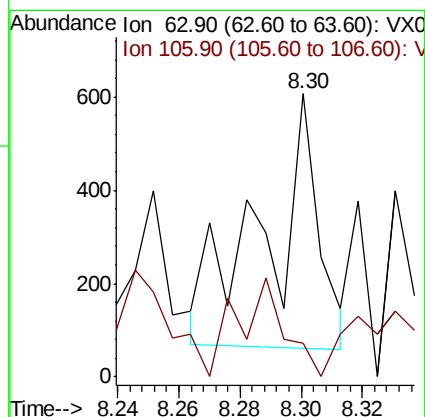
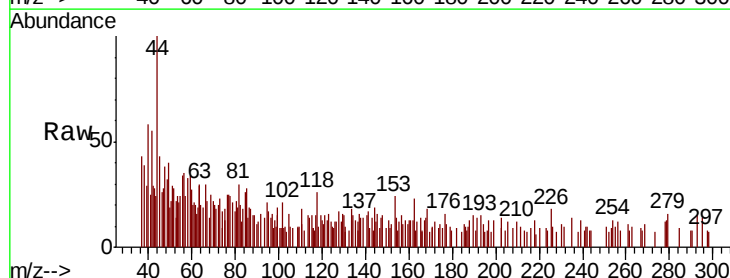
Acq: 17 Jan 2020 16:54

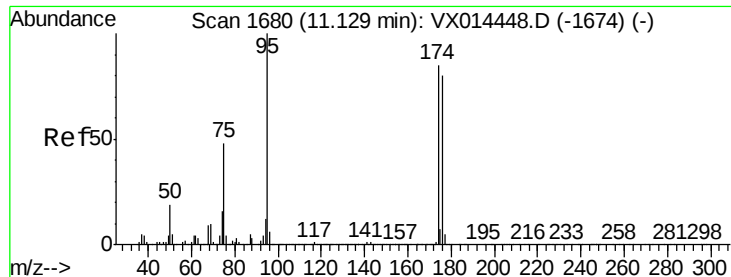
Tgt Ion: 63 Resp: 663

Ion Ratio Lower Upper

63 100

106 33.9 23.6 35.4





#62

4-Bromofluorobenzene

Concen: 44.427 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.00 min

Lab File: VX014659.D

Acq: 17 Jan 2020 16:54

Instrument :

MSVOA_X

ClientSampleId :

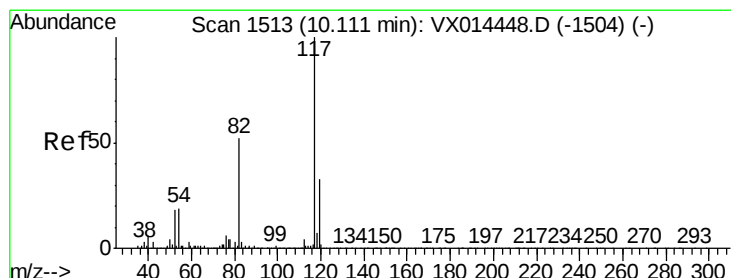
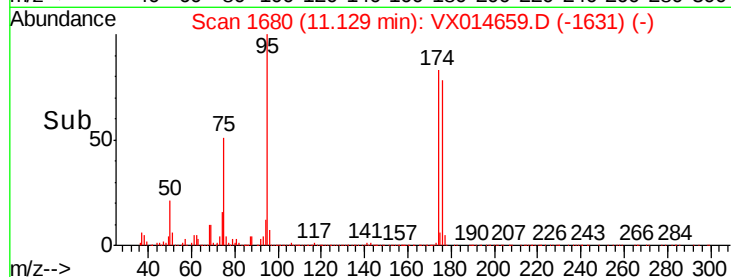
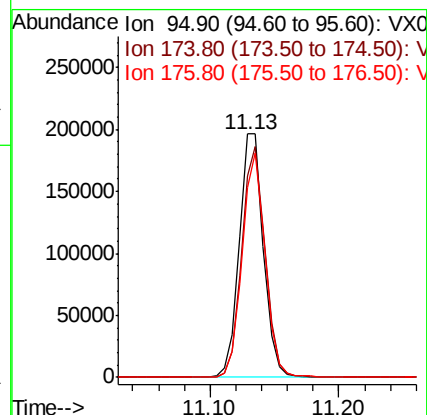
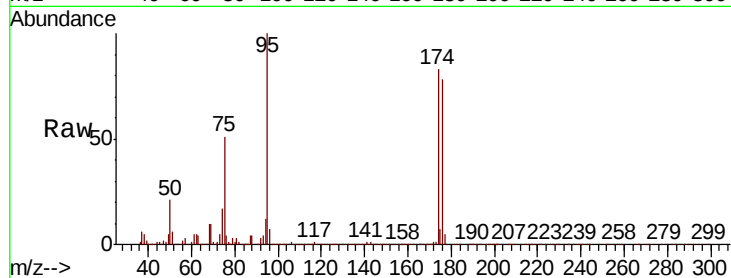
Tot Ion: 95 Resp: 257079

Ion Ratio Lower Upper

95 100

174 91.1 0.0 180.8

176 87.4 0.0 172.8



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1512

Delta R.T. -0.01 min

Lab File: VX014659.D

Acq: 17 Jan 2020 16:54

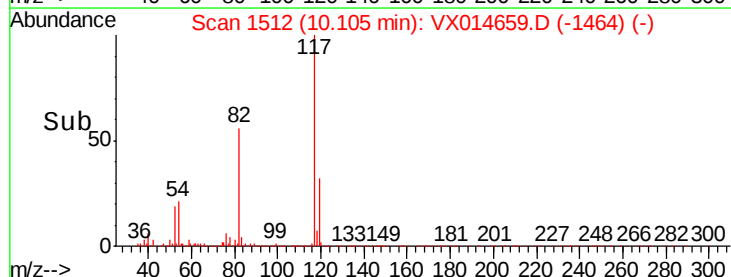
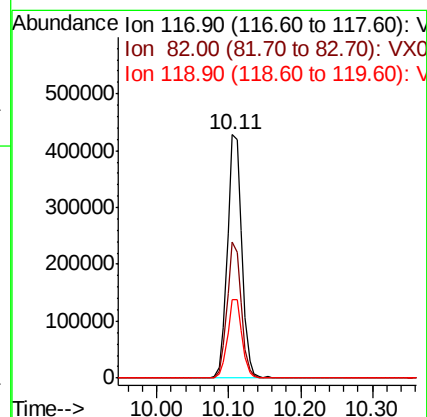
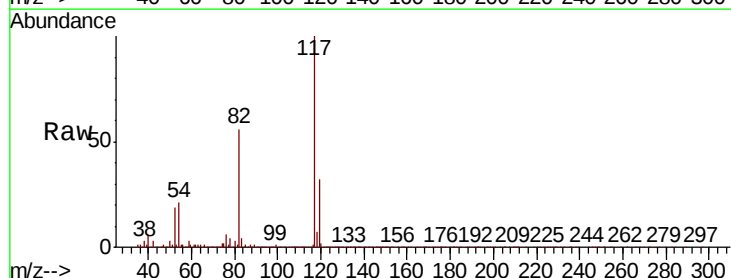
Tgt Ion: 117 Resp: 597452

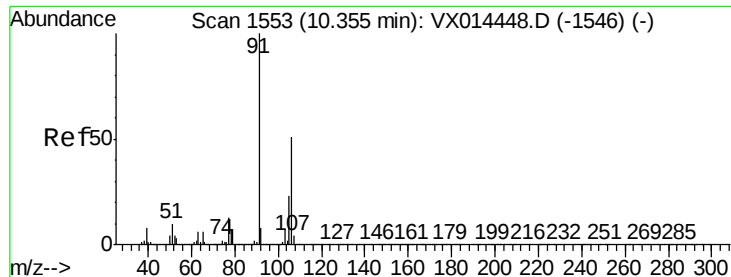
Ion Ratio Lower Upper

117 100

82 56.0 41.8 62.6

119 32.3 26.2 39.4





#68

m/p-Xylenes

Concen: 0.207 ug/l

RT: 10.35 min Scan# 1553

Delta R.T. 0.00 min

Lab File: VX014659.D

Acq: 17 Jan 2020 16:54

Instrument :

MSVOA_X

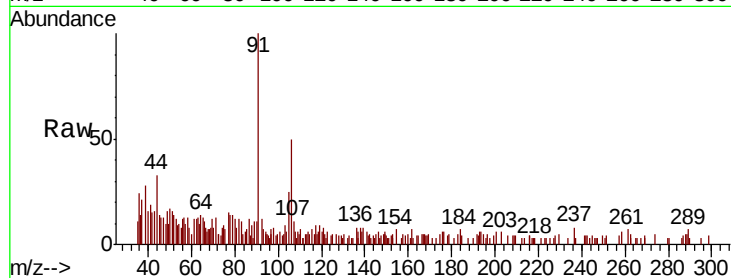
ClientSampleId :

Tot Ion:106 Resp: 1768

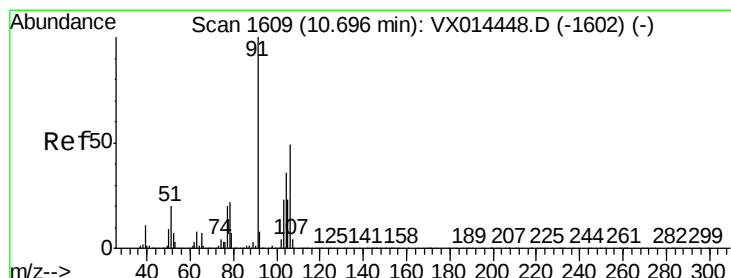
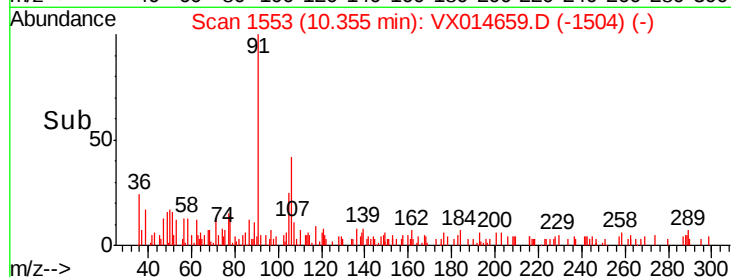
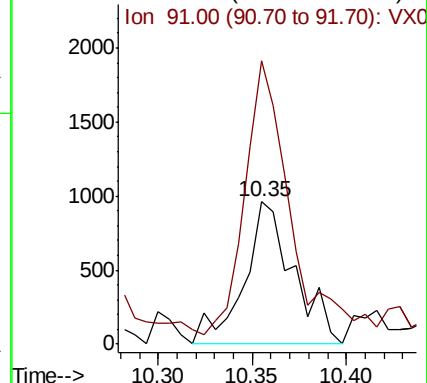
Ion Ratio Lower Upper

106 100

91 174.6 157.4 236.0



Abundance Ion 106.00 (105.70 to 106.70): V



#69

o-Xylene

Concen: 0.627 ug/l

RT: 10.70 min Scan# 1609

Delta R.T. 0.00 min

Lab File: VX014659.D

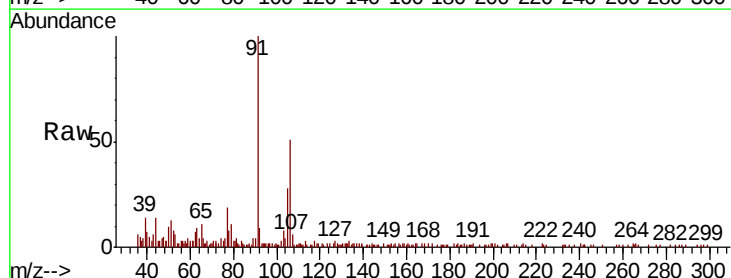
Acq: 17 Jan 2020 16:54

Tgt Ion:106 Resp: 5104

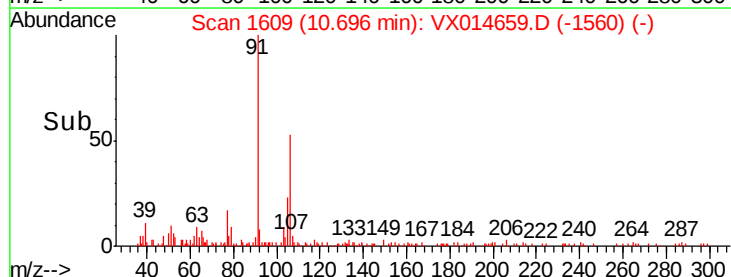
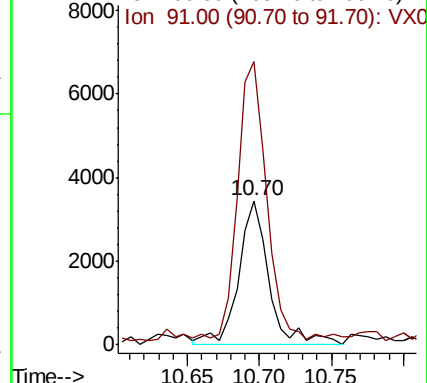
Ion Ratio Lower Upper

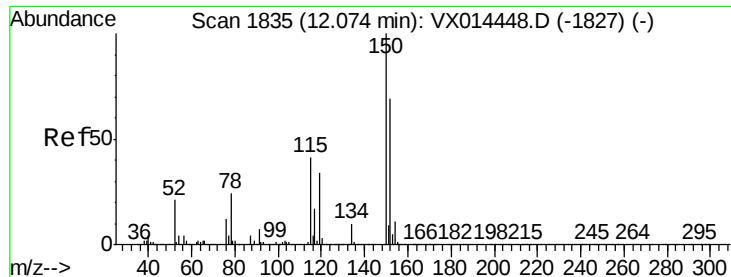
106 100

91 179.5 105.1 315.1



Abundance Ion 106.00 (105.70 to 106.70): V



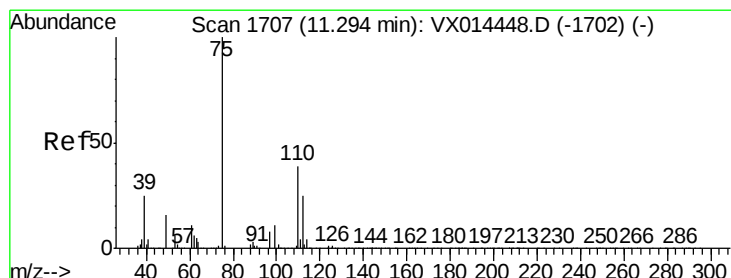
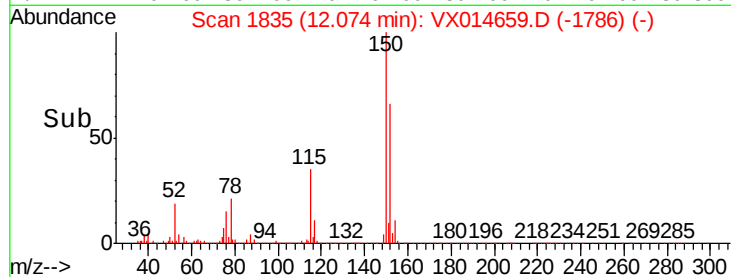
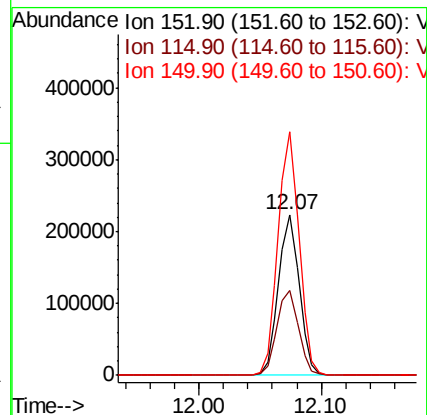
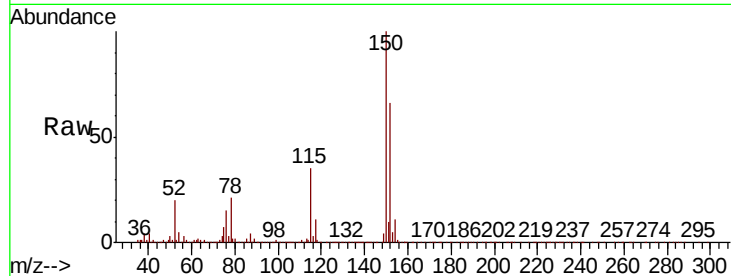


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX014659.D
Acq: 17 Jan 2020 16:54

Instrument :
MSVOA_X
ClientSampled :

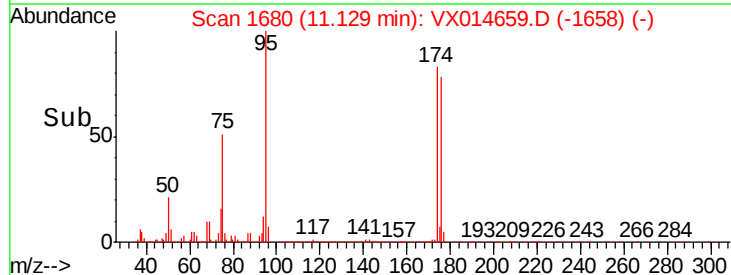
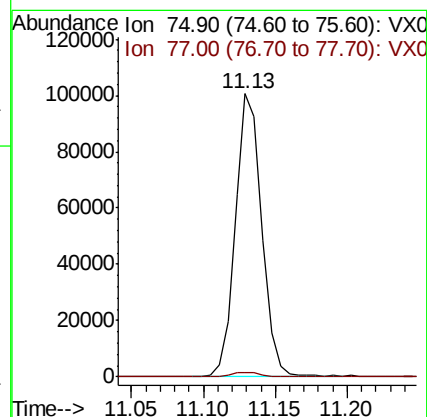
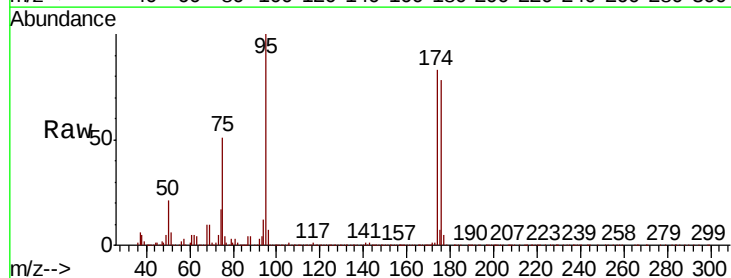
Tot Ion	Ratio	Lower	Upper
152	100		
115	54.8	39.5	118.3
150	154.7	0.0	350.2

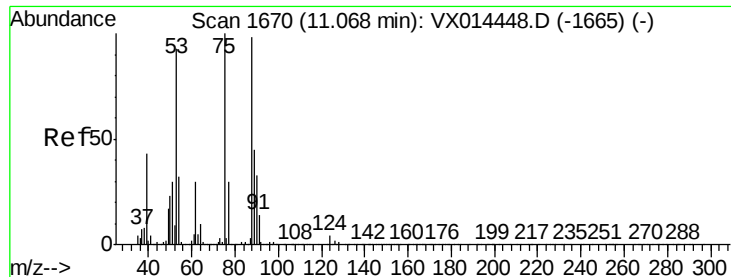


#76

1,2,3-Trichloropropane
Concen: 23.513 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.16 min
Lab File: VX014659.D
Acq: 17 Jan 2020 16:54

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.7	21.9	65.7#





#81

trans-1,4-Dichloro-2-butene

Concen: 62.165 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014659.D

Acq: 17 Jan 2020 16:54

Instrument :

MSVOA_X

ClientSampleId :

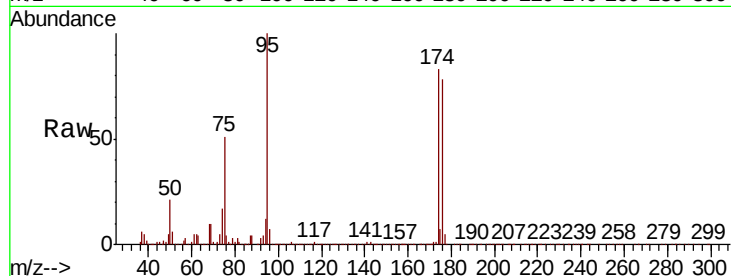
Tot Ion: 75 Resp: 128561

Ion Ratio Lower Upper

75 100

53 0.2 74.8 112.2#

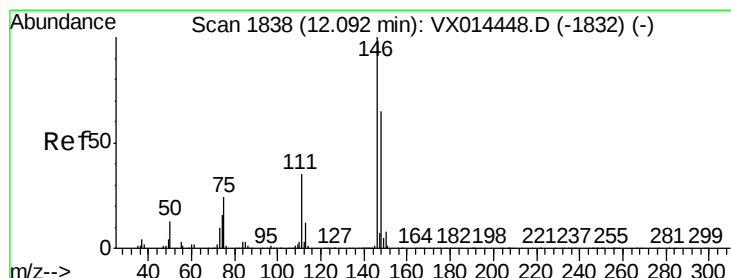
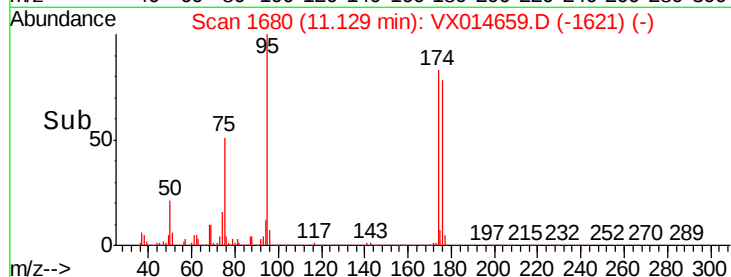
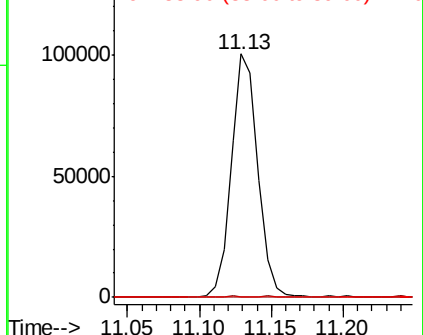
89 0.1 36.3 54.5#



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



#88

1,4-Dichlorobenzene

Concen: Below Cal

RT: 12.09 min Scan# 1838

Delta R.T. 0.00 min

Lab File: VX014659.D

Acq: 17 Jan 2020 16:54

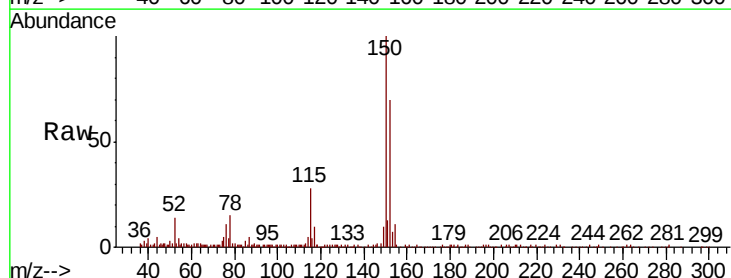
Tgt Ion:146 Resp: 684

Ion Ratio Lower Upper

146 100

111 527.6 18.1 54.1#

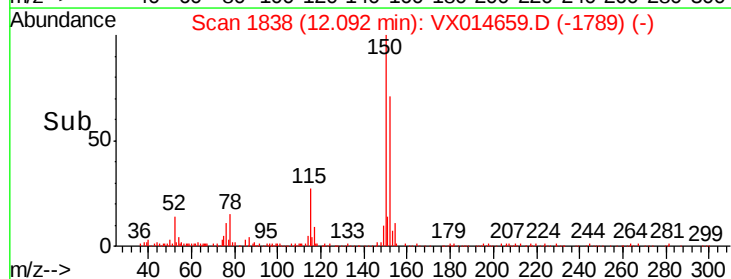
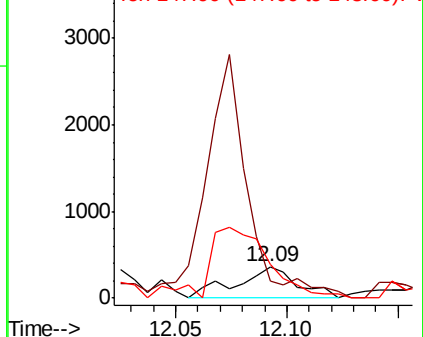
148 230.8 32.1 96.3#

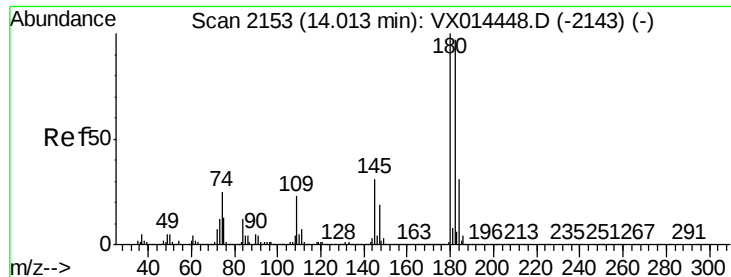


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

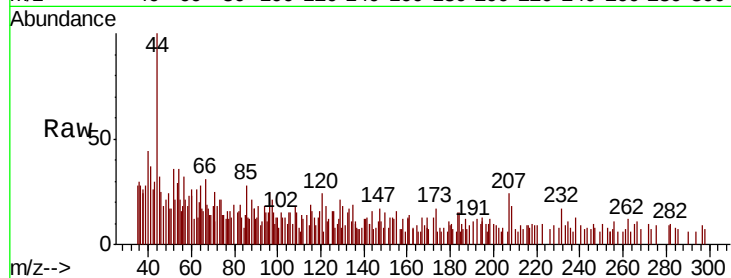




#96
 1,2,3-Trichlorobenzene
 Concen: Below Cal
 RT: 13.99 min Scan# 2150
 Delta R.T. -0.02 min
 Lab File: VX014659.D
 Acq: 17 Jan 2020 16:54

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	47.9	143.6#
145	159.1	14.8	44.3#



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

