

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX021220\
 Data File : VX014925.D
 Acq On : 12 Feb 2020 15:01
 Operator : JC/SP
 Sample : L1495-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Feb 13 03:35:35 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X021020W.M
 Quant Title : SW846 8260
 QLast Update : Mon Feb 10 12:09:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	436639	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	684411	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	659909	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	345646	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	254353	51.62	ug/l	0.00
Spiked Amount			Recovery	=	103.24%	
35) Dibromofluoromethane	5.49	113	210043	49.92	ug/l	0.00
Spiked Amount			Recovery	=	99.84%	
50) Toluene-d8	8.71	98	822713	51.22	ug/l	0.00
Spiked Amount			Recovery	=	102.44%	
62) 4-Bromofluorobenzene	11.13	95	310501	53.67	ug/l	0.00
Spiked Amount			Recovery	=	107.34%	

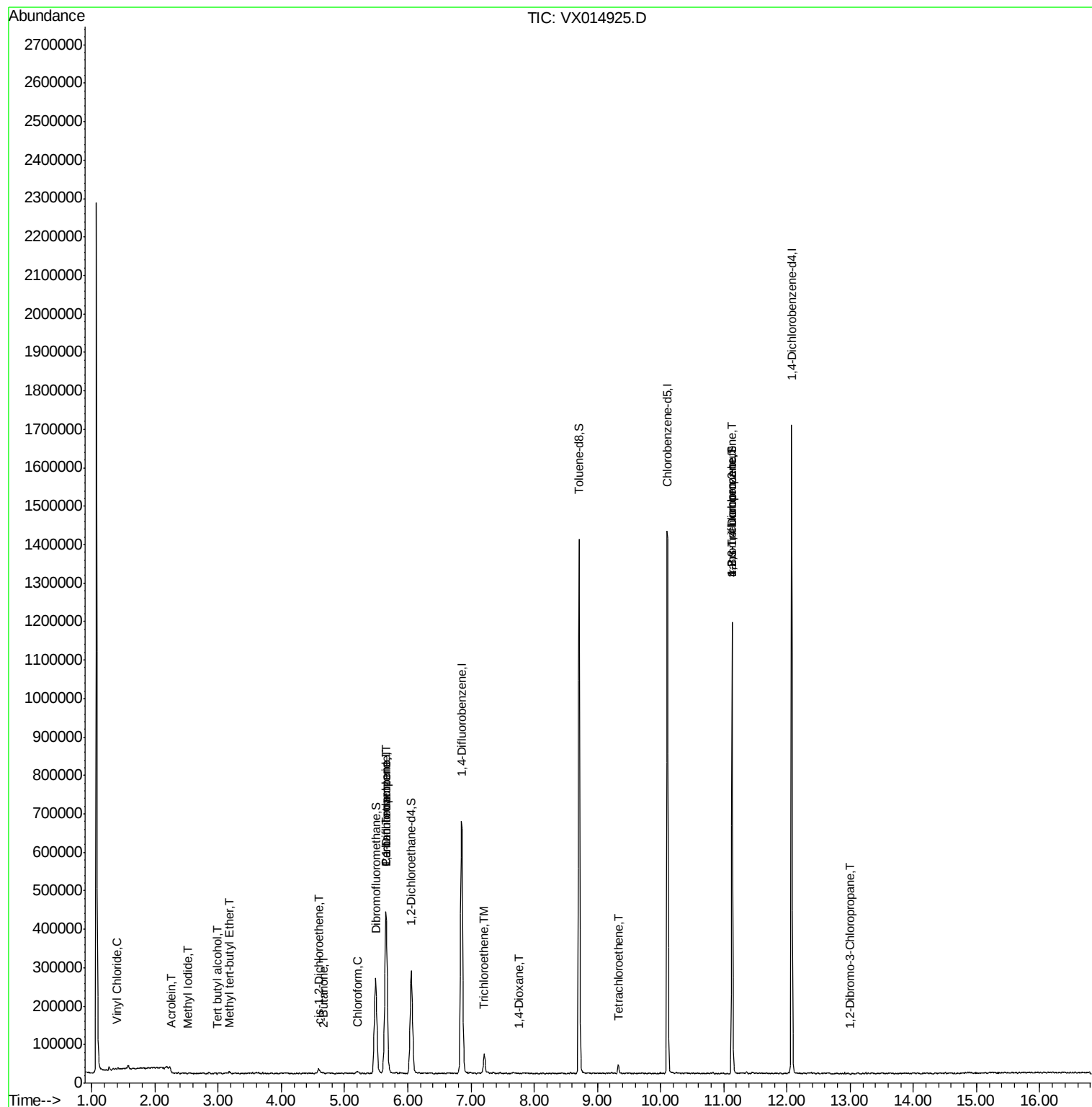
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.39	62	1140	0.226	ug/l #	81
10) Methyl Iodide	2.51	142	355	4.440	ug/l #	1
11) Tert butyl alcohol	2.99	59	584	0.671	ug/l #	59
13) Acrolein	2.27	56	497	0.749	ug/l	89
16) Acetone	2.44	43	3049	Below Cal	#	78
19) Methyl tert-butyl Ether	3.19	73	3354	0.258	ug/l #	90
25) 2-Butanone	4.66	43	908	0.271	ug/l #	49
27) cis-1,2-Dichloroethene	4.59	96	7715	1.563	ug/l	79
30) Chloroform	5.21	83	5639	0.743	ug/l	86
36) 1,1-Dichloropropene	5.66	75	27801	4.541	ug/l #	51
38) Carbon Tetrachloride	5.65	117	38291	6.418	ug/l #	16
44) Trichloroethene	7.21	130	21040	3.962	ug/l	97
49) 1,4-Dioxane	7.76	88	107	1.104	ug/l #	1
64) Tetrachloroethene	9.33	164	5214	0.845	ug/l	92
76) 1,2,3-Trichloropropane	11.13	75	154161	24.664	ug/l #	41
81) trans-1,4-Dichloro-2-buten	11.13	75	154161	63.133	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	13.01	75	335	0.202	ug/l #	1

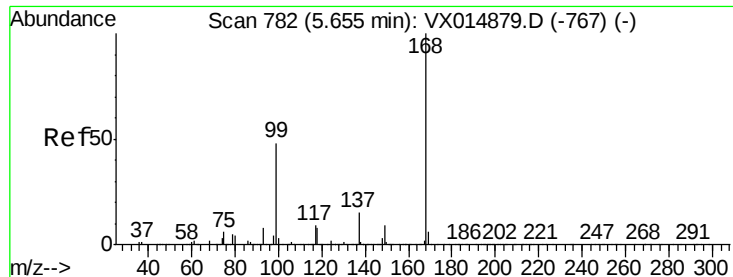
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X021020W.M
Quant Title : SW846 8260
QLast Update : Mon Feb 10 12:09:20 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: VX014925.D

Acq: 12 Feb 2020 15:01

Instrument :

MSVOA_X

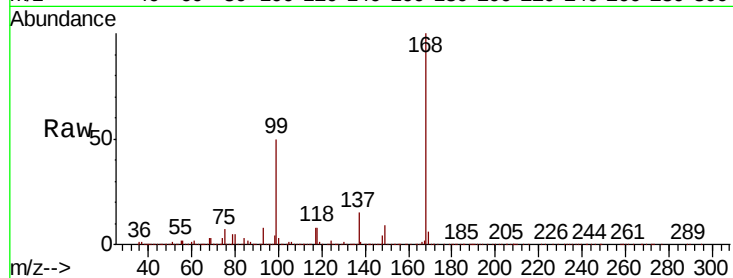
ClientSampleId :

Tot Ion:168 Resp: 436639

Ion Ratio Lower Upper

168 100

99 49.6 38.7 58.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

150000

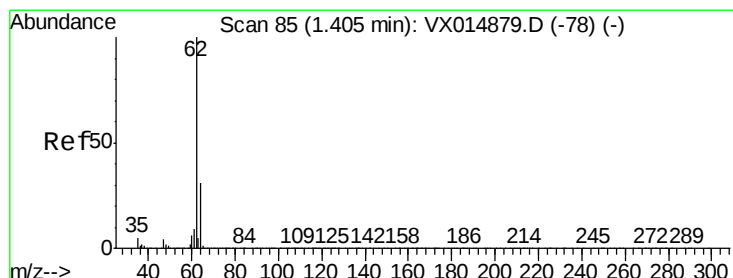
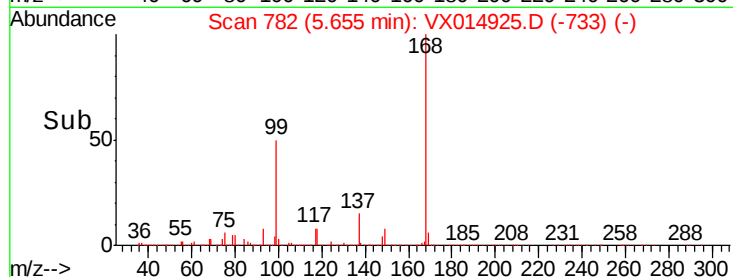
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#4

Vinyl Chloride

Concen: 0.226 ug/l

RT: 1.39 min Scan# 83

Delta R.T. -0.01 min

Lab File: VX014925.D

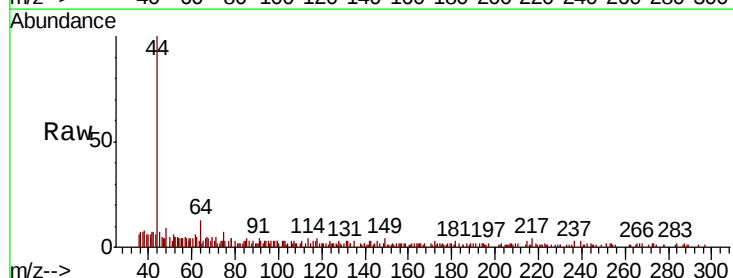
Acq: 12 Feb 2020 15:01

Tgt Ion: 62 Resp: 1140

Ion Ratio Lower Upper

62 100

64 20.4 24.8 37.2#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.39

800

600

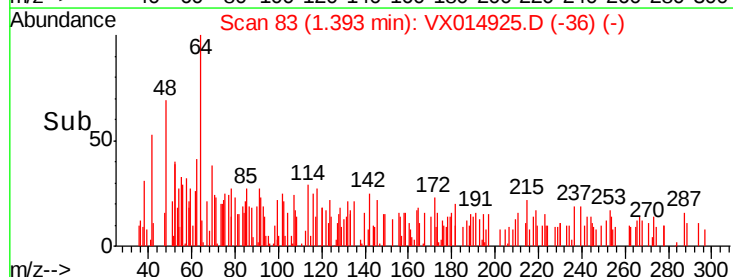
400

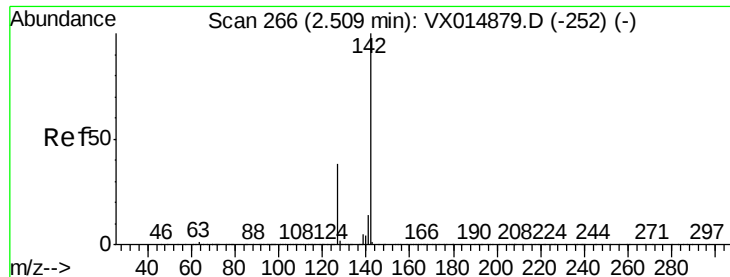
200

0

Time-->

1.35 1.40 1.45

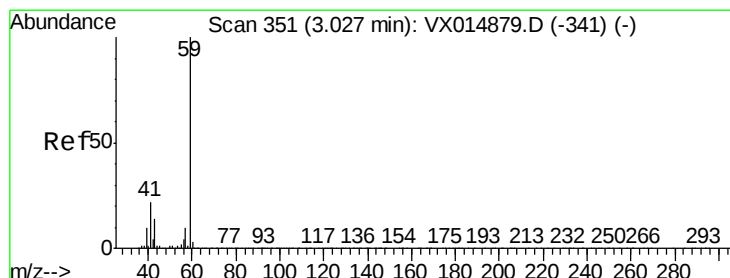
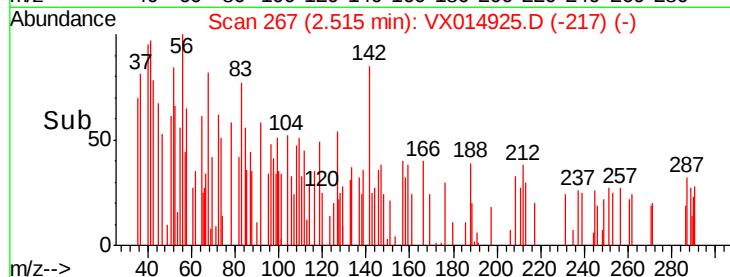
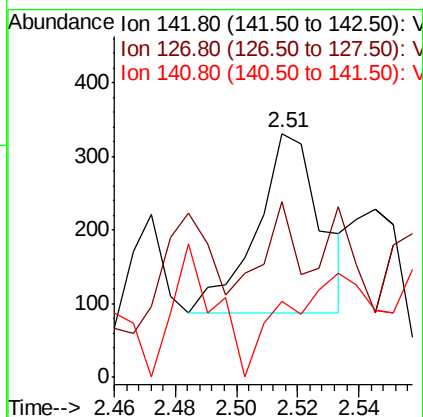
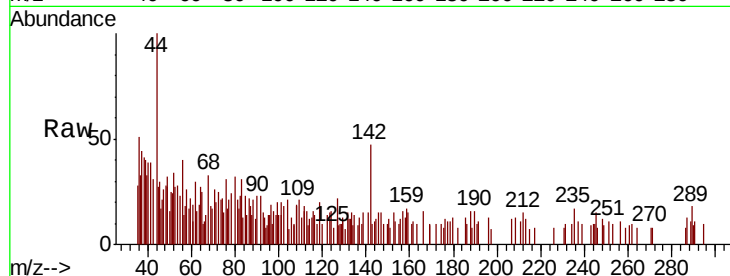




#10
Methyl Iodide
Concen: 4.440 ug/l
RT: 2.51 min Scan# 267
Delta R.T. 0.01 min
Lab File: VX014925.D
Acq: 12 Feb 2020 15:01

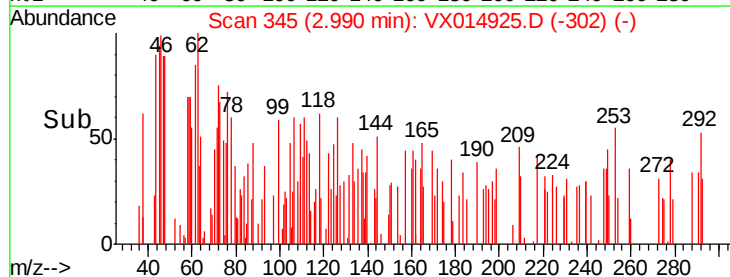
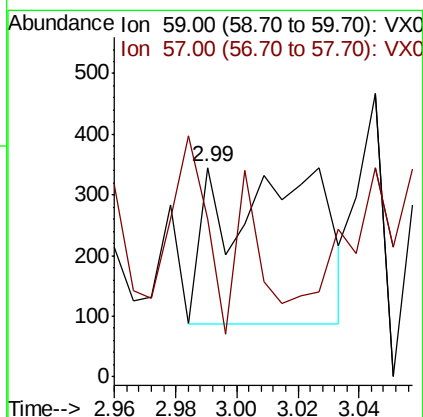
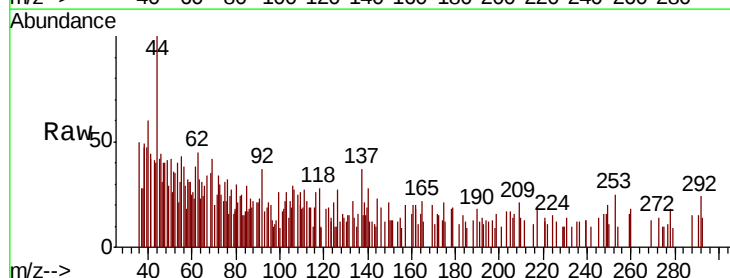
Instrument :
MSVOA_X
ClientSampled :

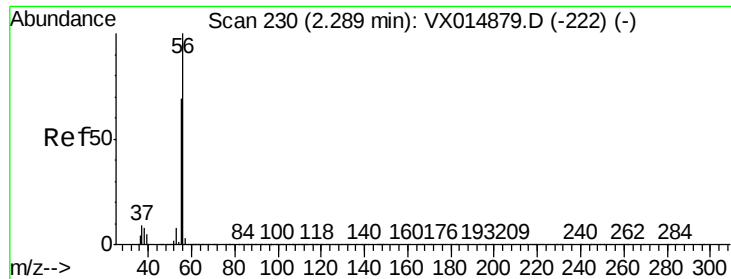
Tot Ion:142 Resp: 355
Ion Ratio Lower Upper
142 100
127 84.5 31.1 46.7#
141 85.1 11.3 16.9#



#11
Tert butyl alcohol
Concen: 0.671 ug/l
RT: 2.99 min Scan# 345
Delta R.T. -0.04 min
Lab File: VX014925.D
Acq: 12 Feb 2020 15:01

Tgt Ion: 59 Resp: 584
Ion Ratio Lower Upper
59 100
57 25.7 8.2 12.4#





#13

Acrolein

Concen: 0.749 ug/l

RT: 2.27 min Scan# 227

Delta R.T. -0.02 min

Lab File: VX014925.D

Acq: 12 Feb 2020 15:01

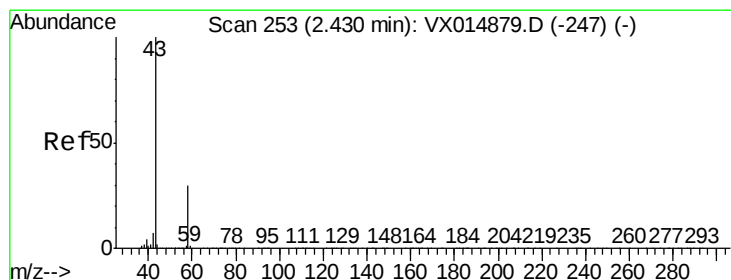
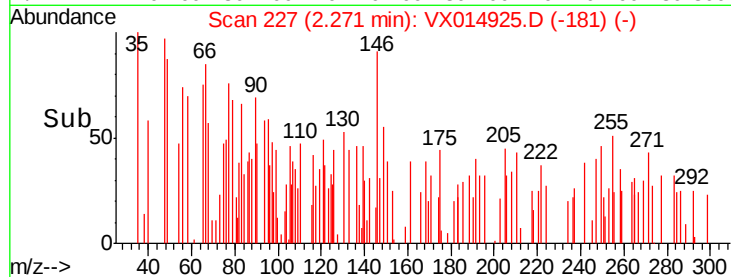
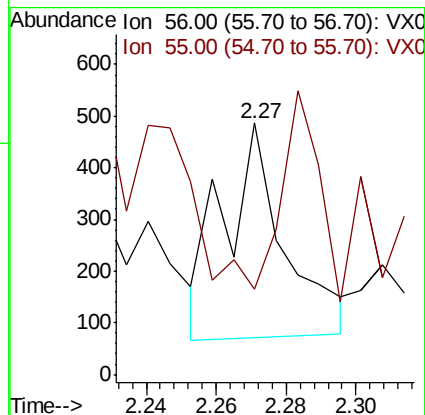
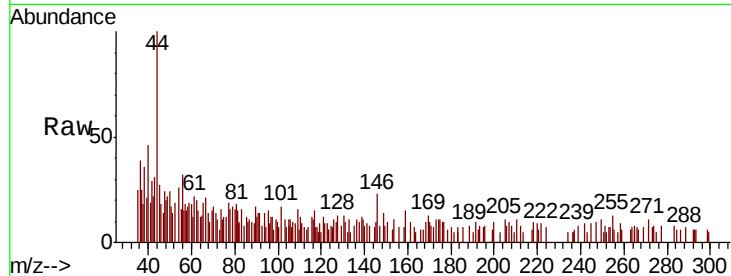
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 497

Ion Ratio Lower Upper

56 100

55 60.2 55.0 82.4



#16

Acetone

Concen: Below Cal

RT: 2.44 min Scan# 254

Delta R.T. 0.01 min

Lab File: VX014925.D

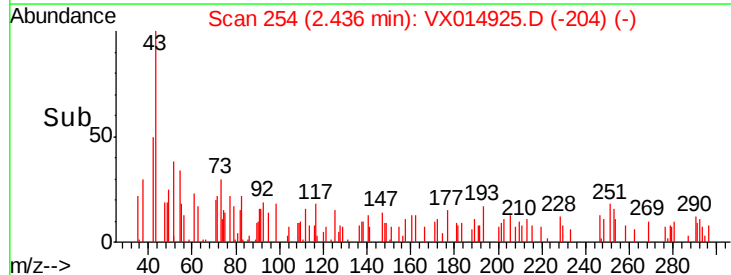
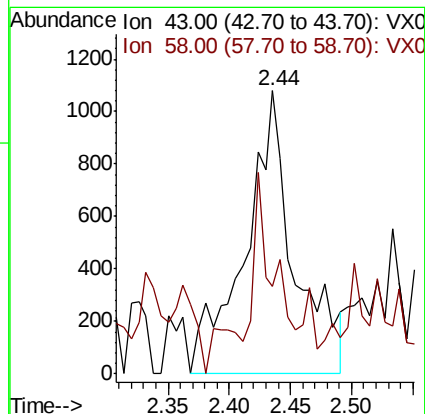
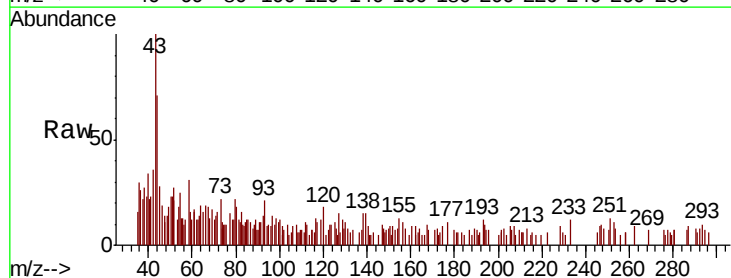
Acq: 12 Feb 2020 15:01

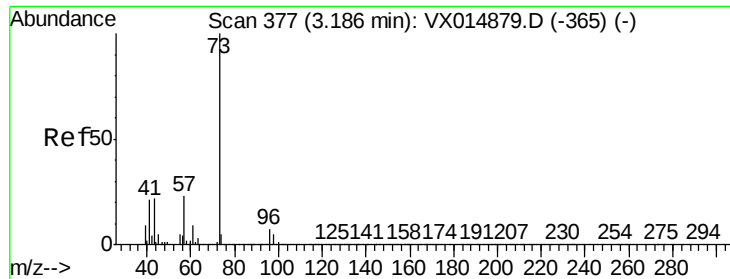
Tgt Ion: 43 Resp: 3049

Ion Ratio Lower Upper

43 100

58 18.1 24.1 36.1#

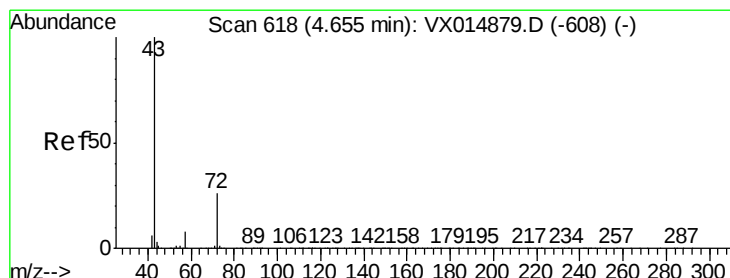
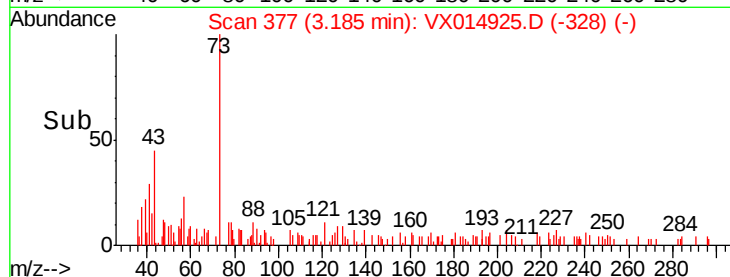
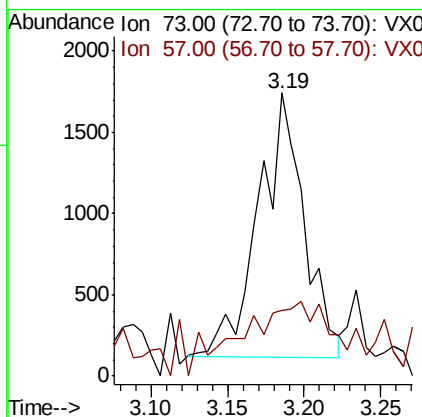
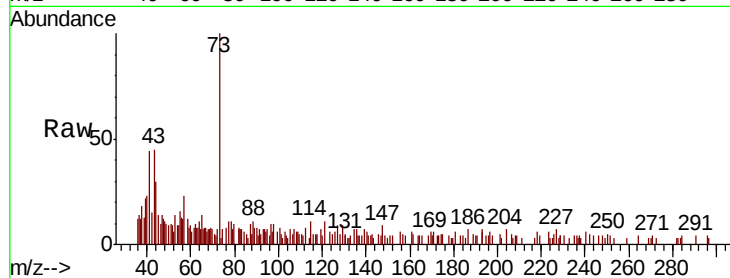




#19
Methvl tert-butvl Ether
Concen: 0.258 ug/l
RT: 3.19 min Scan# 377
Delta R.T. -0.00 min
Lab File: VX014925.D
Acq: 12 Feb 2020 15:01

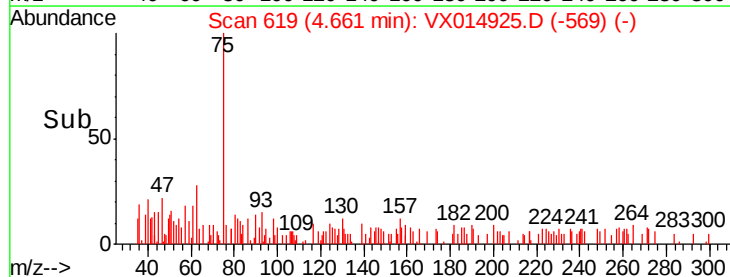
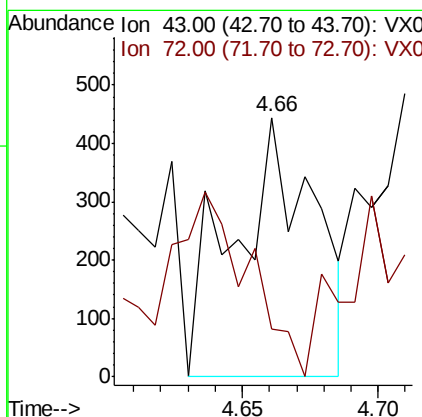
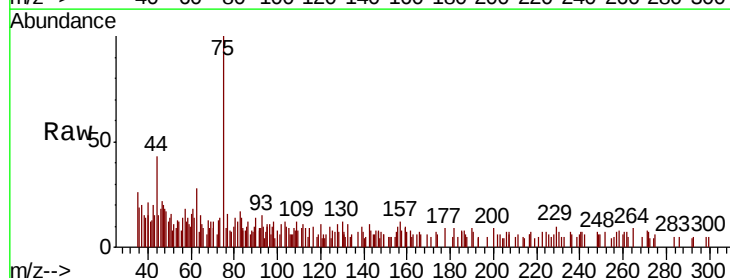
Instrument :
MSVOA_X
ClientSampleId :

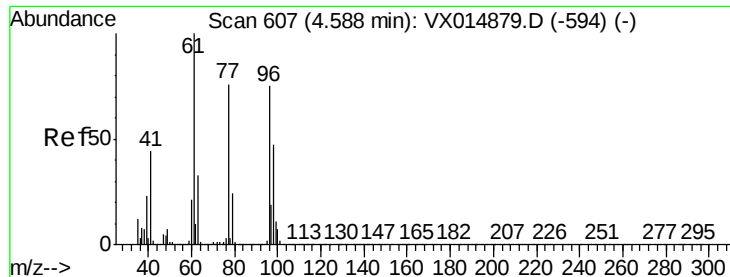
Tot Ion: 73 Resp: 3354
Ion Ratio Lower Upper
73 100
57 18.0 18.2 27.4#



#25
2-Butanone
Concen: 0.271 ug/l
RT: 4.66 min Scan# 619
Delta R.T. 0.01 min
Lab File: VX014925.D
Acq: 12 Feb 2020 15:01

Tgt Ion: 43 Resp: 908
Ion Ratio Lower Upper
43 100
72 0.0 21.0 31.6#



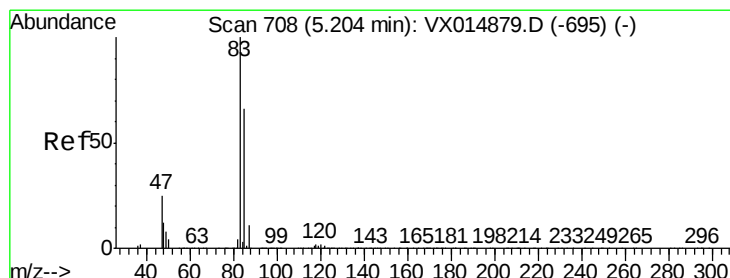
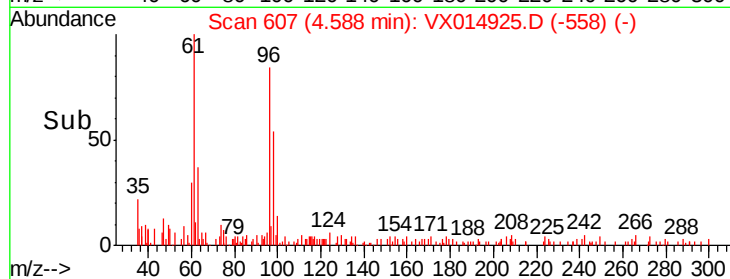
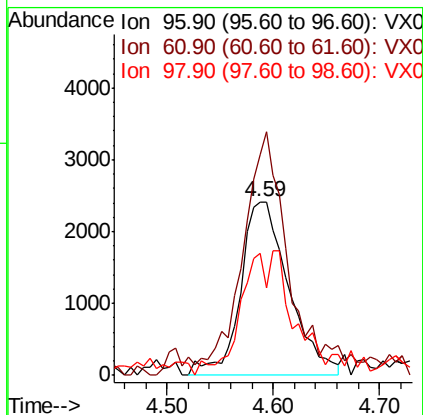
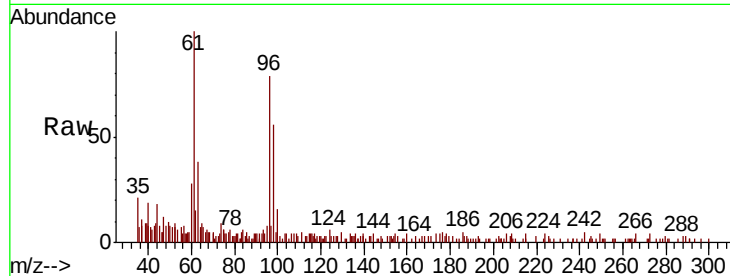


#27

cis-1,2-Dichloroethene
 Concen: 1.563 ug/l
 RT: 4.59 min Scan# 607
 Delta R.T. -0.00 min
 Lab File: VX014925.D
 Acq: 12 Feb 2020 15:01

Instrument :
 MSVOA_X
 ClientSampleId :

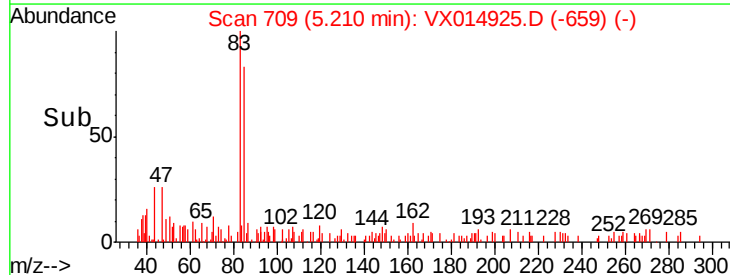
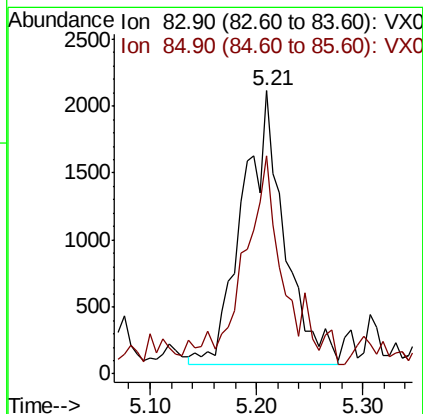
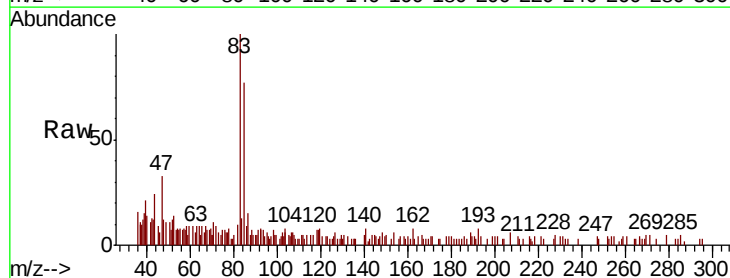
Tot Ion	Ratio	Lower	Upper
96	100		
61	123.6	0.0	286.2
98	39.8	0.0	131.0

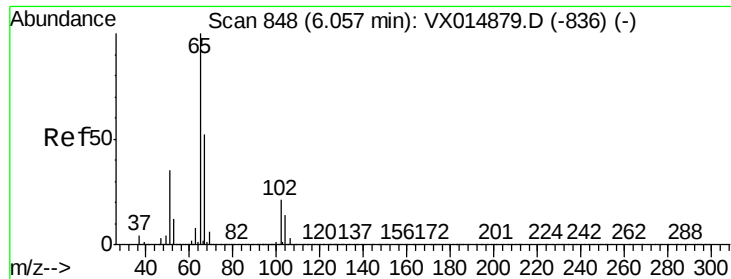


#30

Chloroform
 Concen: 0.743 ug/l
 RT: 5.21 min Scan# 709
 Delta R.T. 0.01 min
 Lab File: VX014925.D
 Acq: 12 Feb 2020 15:01

Tgt Ion	Ratio	Lower	Upper
83	100		
85	77.5	52.9	79.3

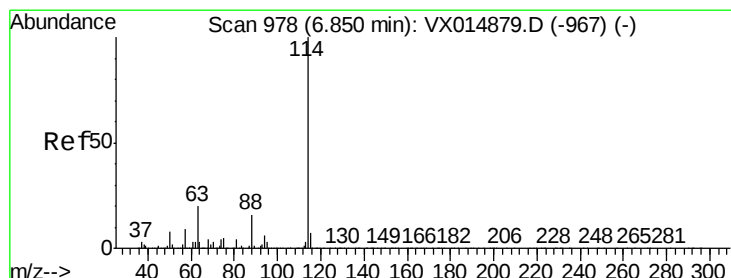
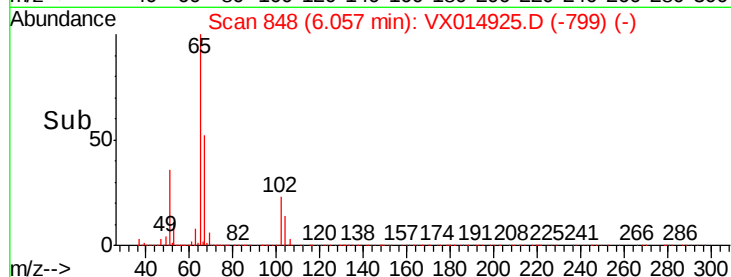
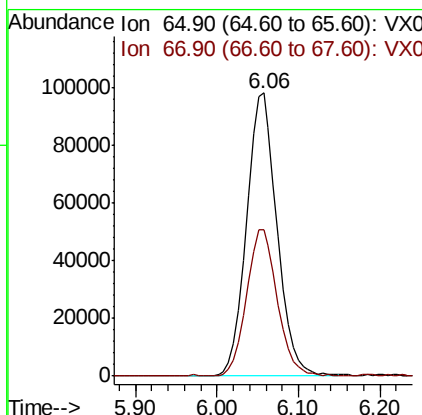
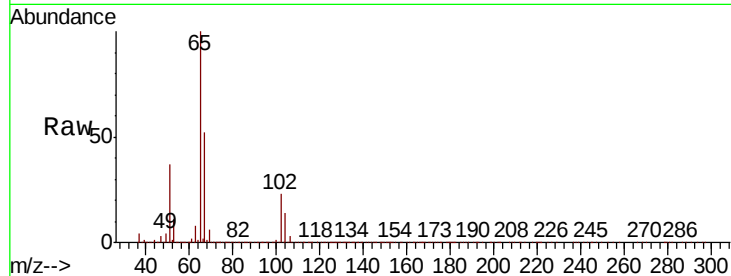




#33
 1,2-Dichloroethane-d4
 Concen: 51.616 ug/l
 RT: 6.06 min Scan# 848
 Delta R.T. -0.00 min
 Lab File: VX014925.D
 Acq: 12 Feb 2020 15:01

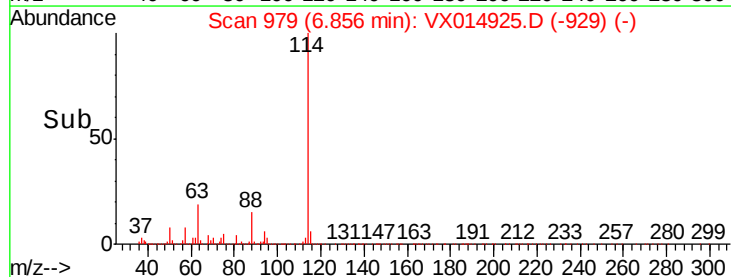
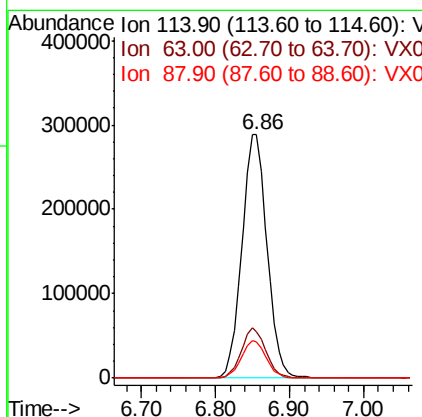
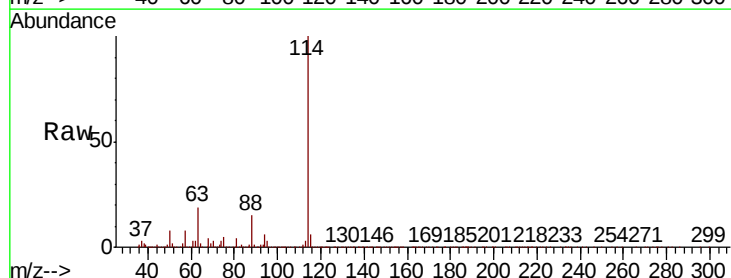
Instrument :
 MSVOA_X
 ClientSampled :

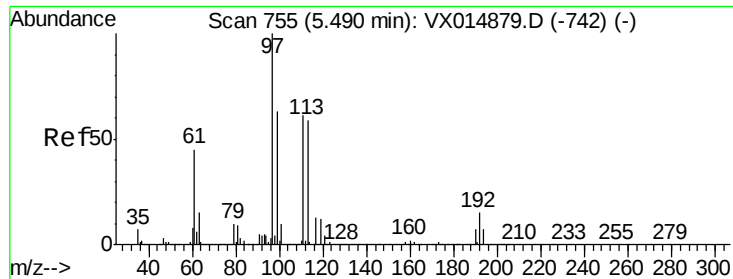
Tot Ion: 65 Resp: 254353
 Ion Ratio Lower Upper
 65 100
 67 52.8 0.0 103.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 979
 Delta R.T. 0.01 min
 Lab File: VX014925.D
 Acq: 12 Feb 2020 15:01

Tgt Ion: 114 Resp: 684411
 Ion Ratio Lower Upper
 114 100
 63 19.2 0.0 39.2
 88 15.1 0.0 32.0





#35

Dibromofluoromethane

Concen: 49.920 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX014925.D

Acq: 12 Feb 2020 15:01

Instrument :
MSVOA_X
ClientSampleId :

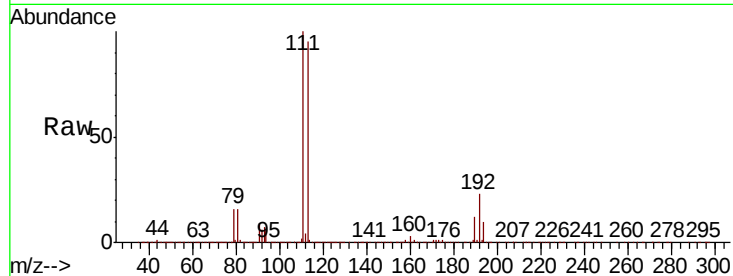
Tot Ion:113 Resp: 210043

Ion Ratio Lower Upper

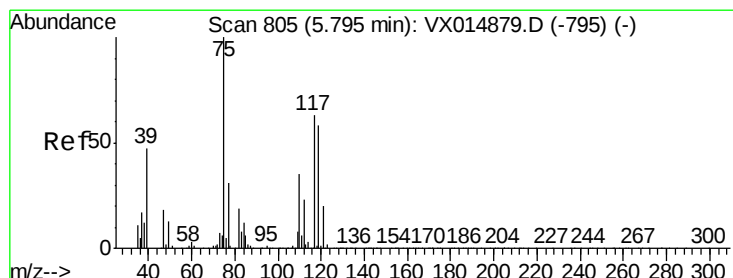
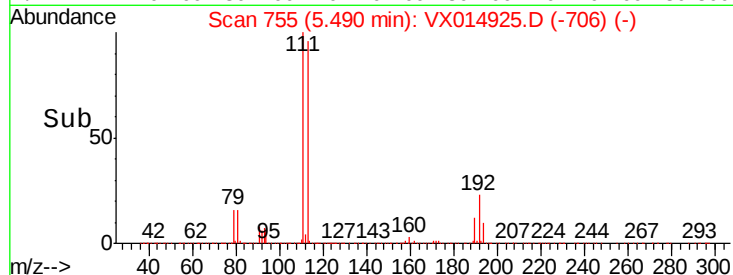
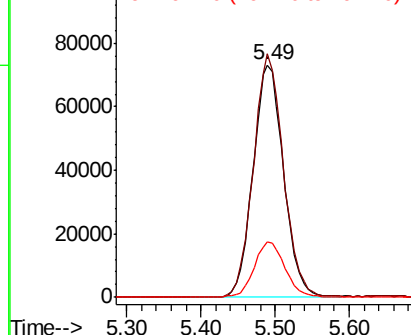
113 100

111 102.4 82.4 123.6

192 24.2 19.1 28.7



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: 4.541 ug/l

RT: 5.66 min Scan# 783

Delta R.T. -0.13 min

Lab File: VX014925.D

Acq: 12 Feb 2020 15:01

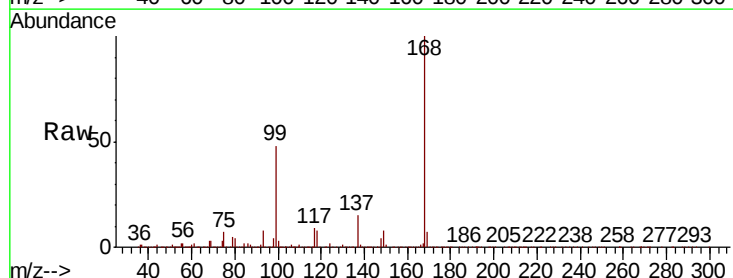
Tgt Ion: 75 Resp: 27801

Ion Ratio Lower Upper

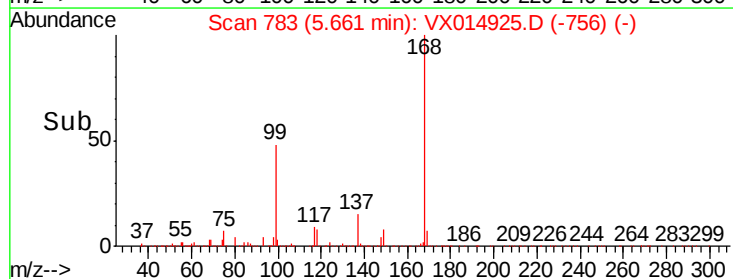
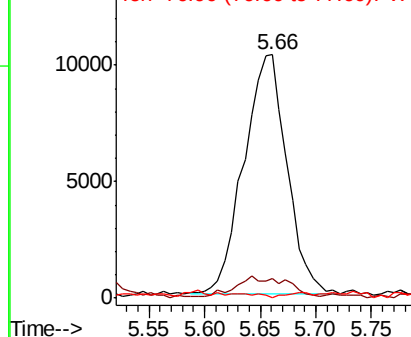
75 100

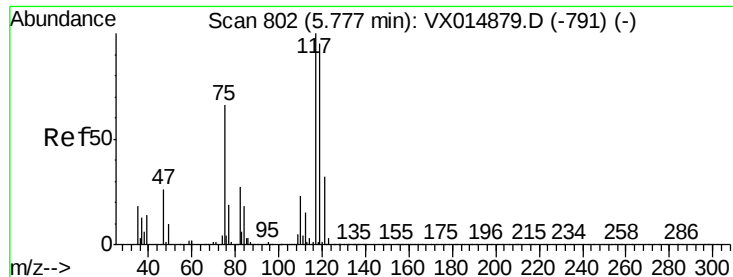
110 11.0 18.3 54.8#

77 0.0 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VX0

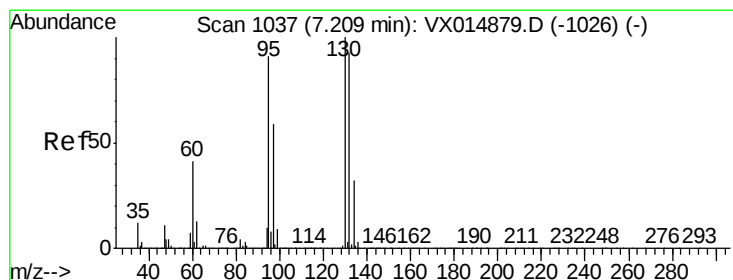
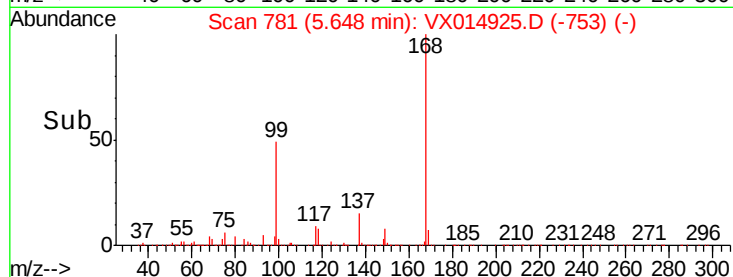
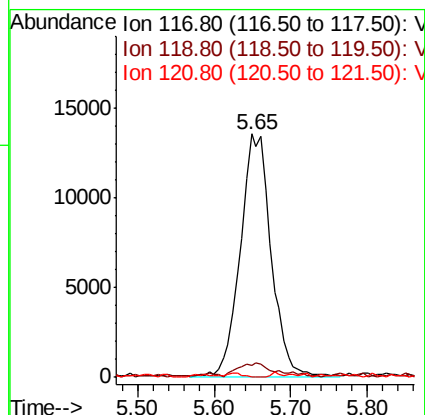
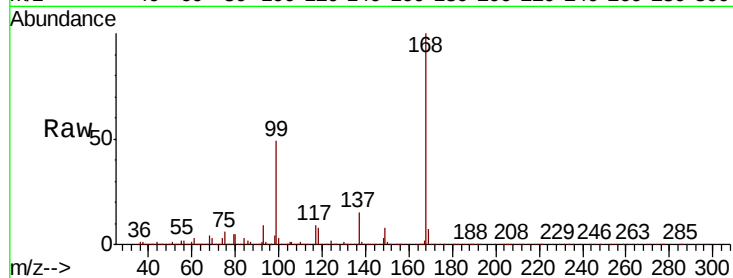




#38
Carbon Tetrachloride
Concen: 6.418 ug/l
RT: 5.65 min Scan# 781
Delta R.T. -0.13 min
Lab File: VX014925.D
Acq: 12 Feb 2020 15:01

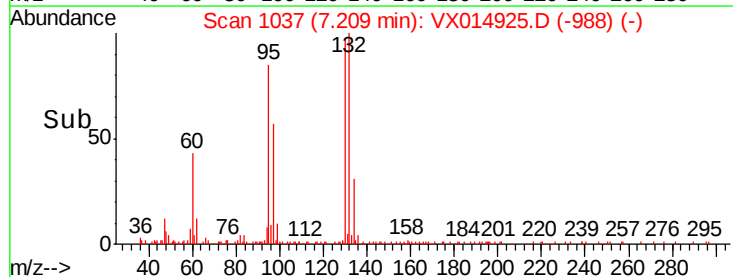
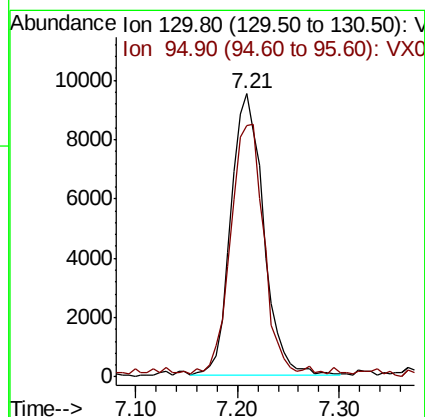
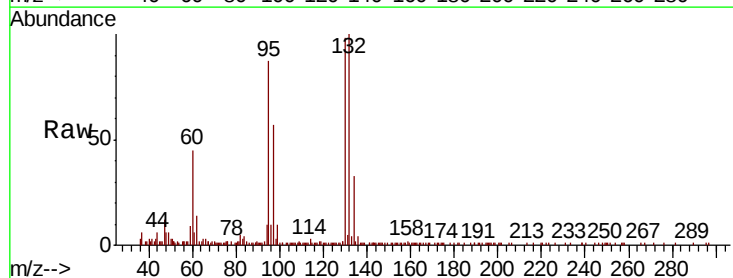
Instrument :
MSVOA_X
ClientSampleId :

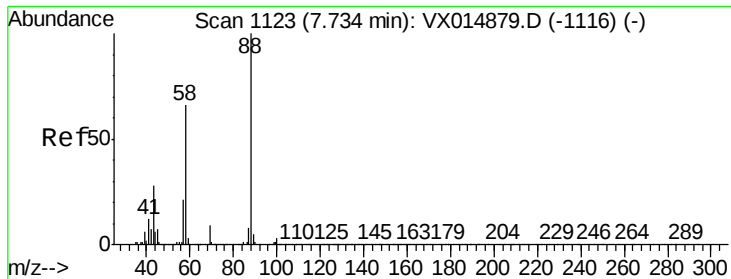
Tot Ion:117 Resp: 38291
Ion Ratio Lower Upper
117 100
119 4.3 76.0 114.0#
121 0.0 25.4 38.2#



#44
Trichloroethene
Concen: 3.962 ug/l
RT: 7.21 min Scan# 1037
Delta R.T. -0.00 min
Lab File: VX014925.D
Acq: 12 Feb 2020 15:01

Tgt Ion:130 Resp: 21040
Ion Ratio Lower Upper
130 100
95 88.7 0.0 182.6





#49

1,4-Dioxane

Concen: 1.104 ug/l

RT: 7.76 min Scan# 1127

Delta R.T. 0.02 min

Lab File: VX014925.D

Acq: 12 Feb 2020 15:01

Instrument :

MSVOA_X

ClientSampleId :

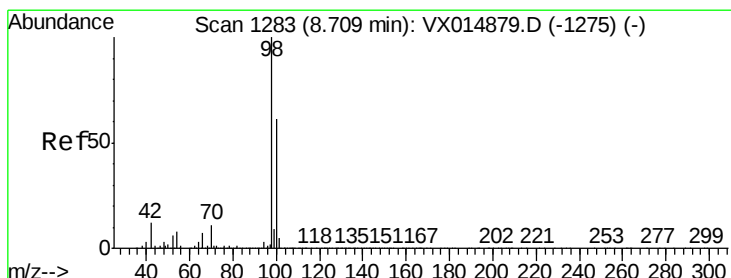
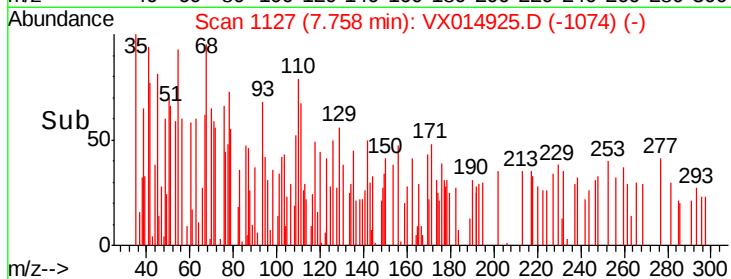
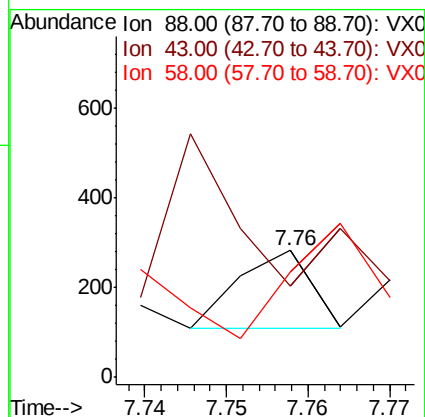
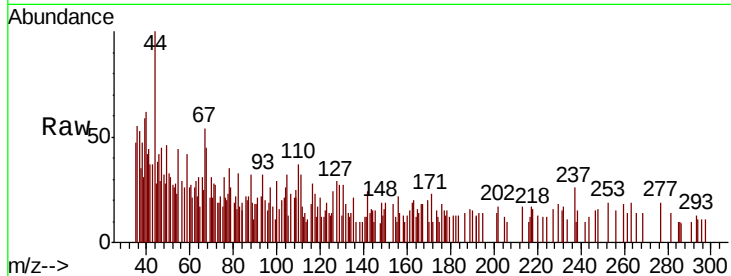
Tot Ion: 88 Resp: 107

Ion Ratio Lower Upper

88 100

43 186.0 27.0 40.4#

58 168.2 53.2 79.8#



#50

Toluene-d8

Concen: 51.225 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX014925.D

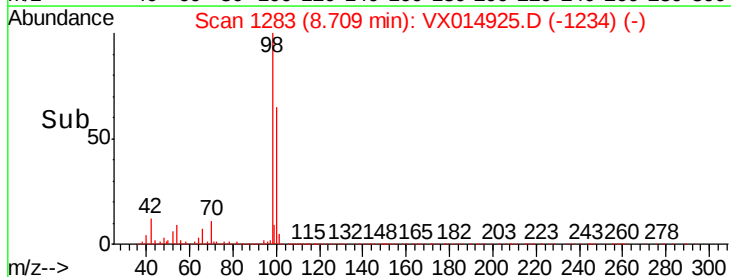
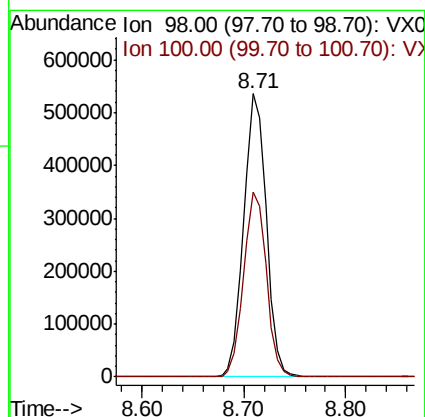
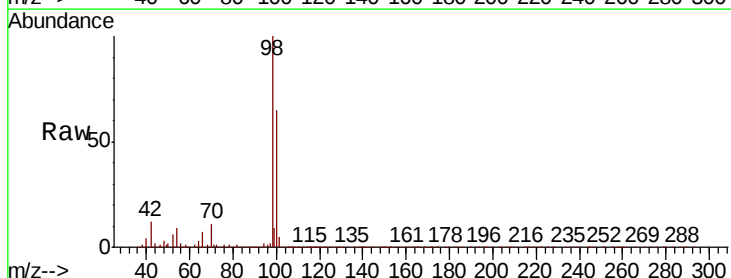
Acq: 12 Feb 2020 15:01

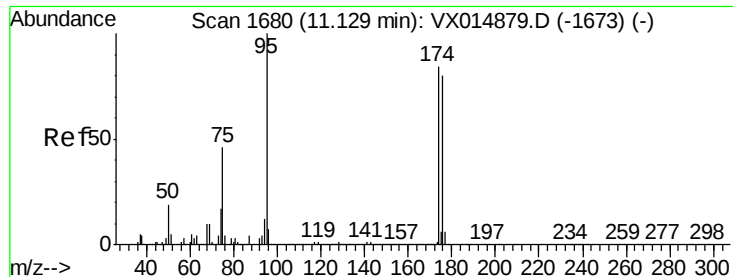
Tgt Ion: 98 Resp: 822713

Ion Ratio Lower Upper

98 100

100 65.7 52.4 78.6





#62

4-Bromofluorobenzene

Concen: 53.668 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.00 min

Lab File: VX014925.D

Acq: 12 Feb 2020 15:01

Instrument :

MSVOA_X

ClientSampleId :

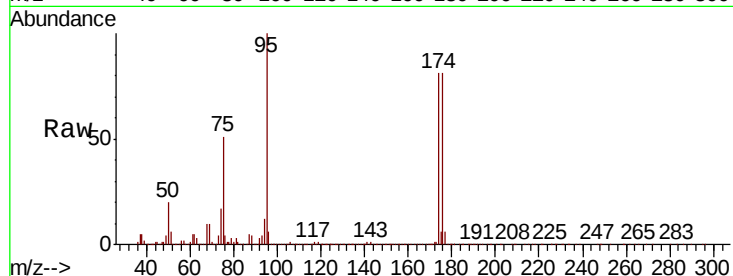
Tot Ion: 95 Resp: 310501

Ion Ratio Lower Upper

95 100

174 91.3 0.0 183.0

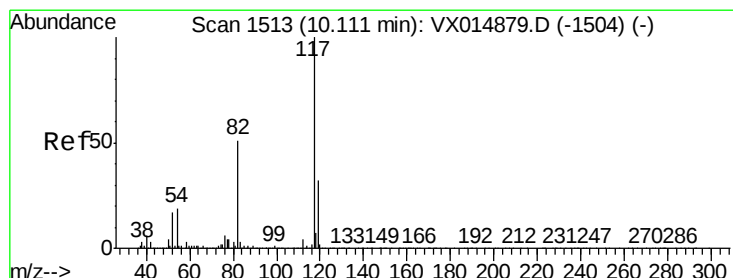
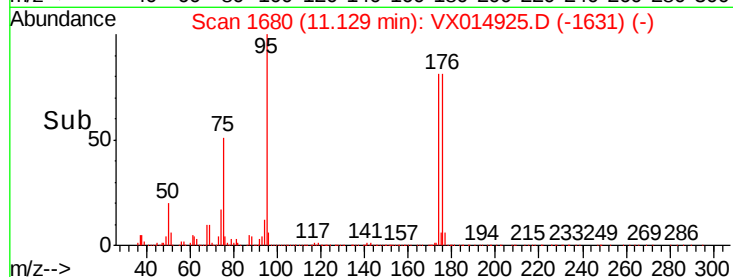
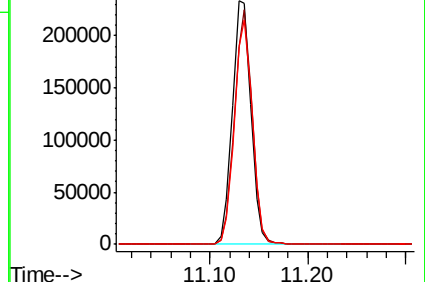
176 89.1 0.0 178.0



Abundance Ion 94.90 (94.60 to 95.60): VX014879.D (-1673) (-)

Ion 173.80 (173.50 to 174.50): VX014879.D (-1673) (-)

Ion 175.80 (175.50 to 176.50): VX014879.D (-1673) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VX014925.D

Acq: 12 Feb 2020 15:01

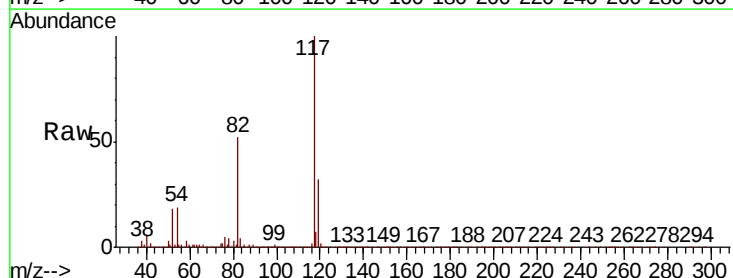
Tgt Ion: 117 Resp: 659909

Ion Ratio Lower Upper

117 100

82 51.8 40.5 60.7

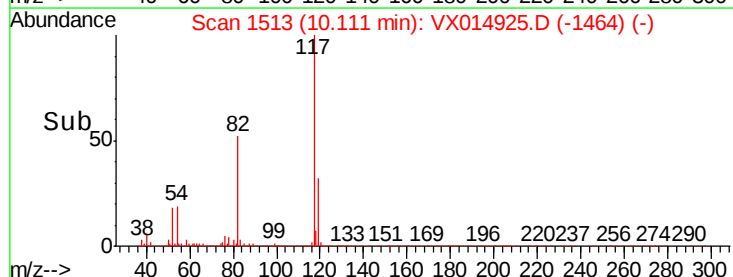
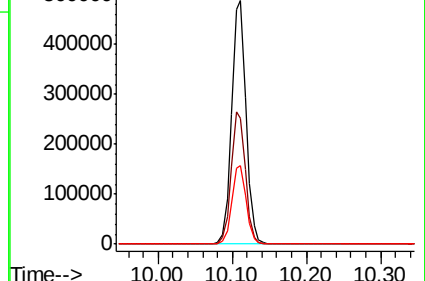
119 32.3 25.8 38.6

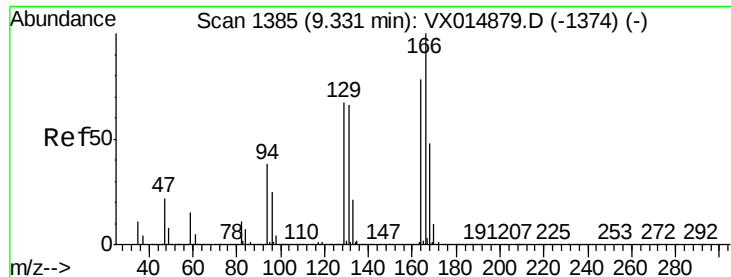


Abundance Ion 116.90 (116.60 to 117.60): VX014879.D (-1504) (-)

Ion 82.00 (81.70 to 82.70): VX014879.D (-1504) (-)

Ion 118.90 (118.60 to 119.60): VX014879.D (-1504) (-)





#64

Tetrachloroethene

Concen: 0.845 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. -0.00 min

Lab File: VX014925.D

Acq: 12 Feb 2020 15:01

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:164 Resp: 5214

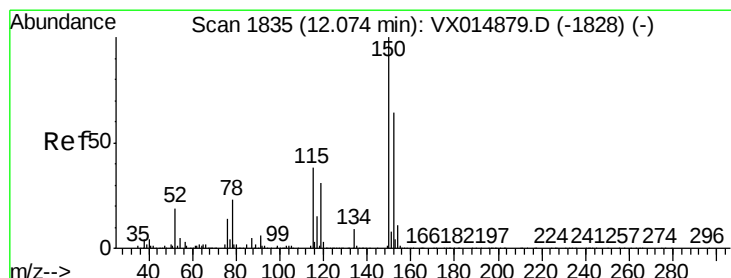
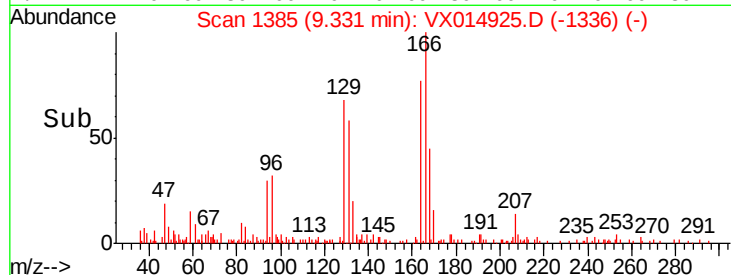
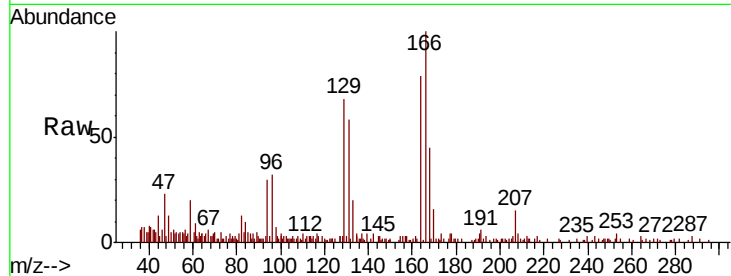
Ion Ratio Lower Upper

164 100

166 122.9 102.6 153.8

129 81.1 68.3 102.5

131 68.1 67.4 101.2



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX014925.D

Acq: 12 Feb 2020 15:01

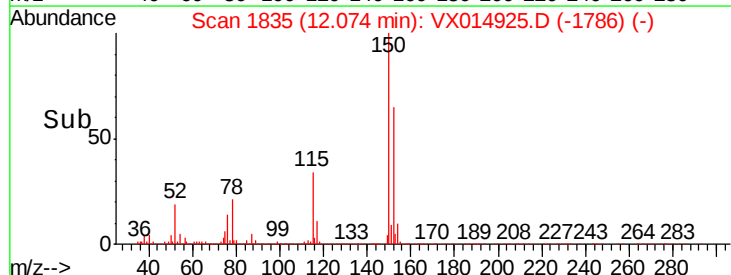
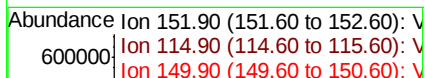
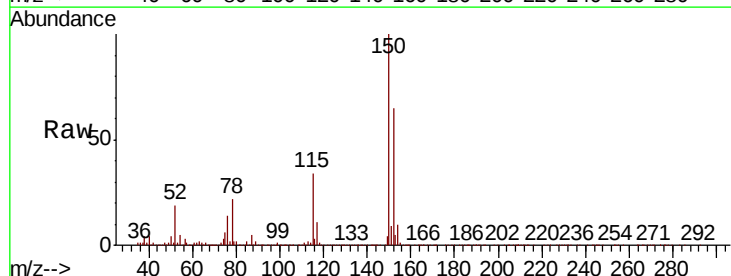
Tgt Ion:152 Resp: 345646

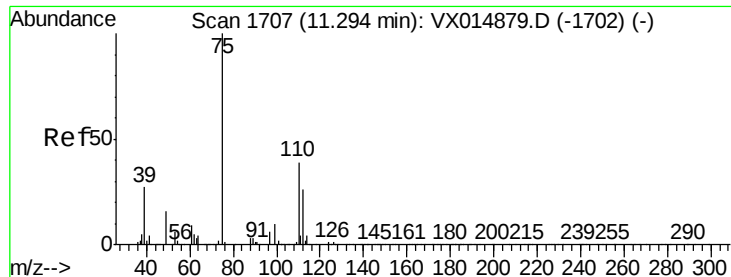
Ion Ratio Lower Upper

152 100

115 54.7 38.6 116.0

150 157.1 0.0 349.0





#76

1,2,3-Trichloropropane

Concen: 24.664 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014925.D

Acq: 12 Feb 2020 15:01

Instrument :

MSVOA_X

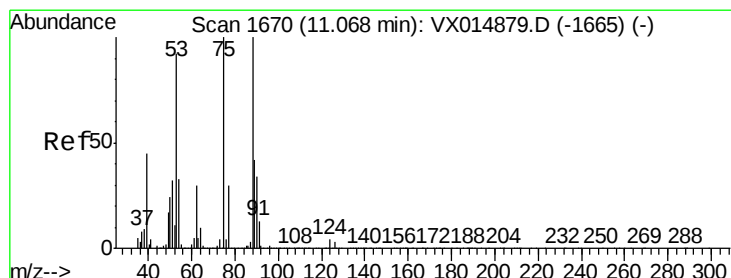
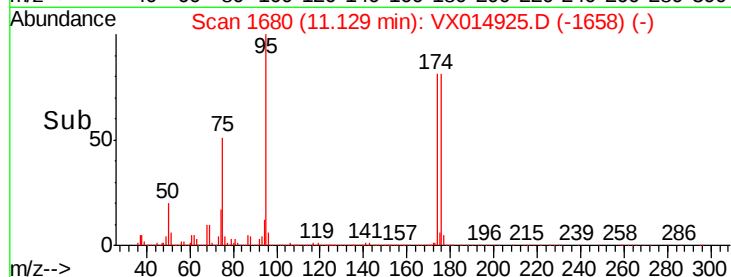
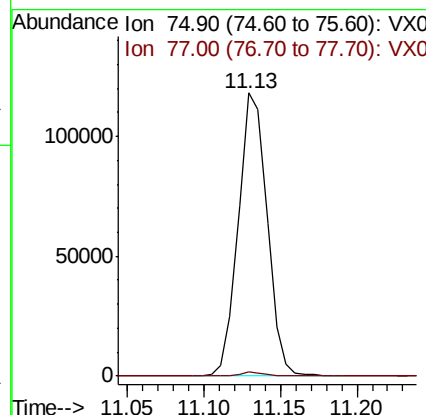
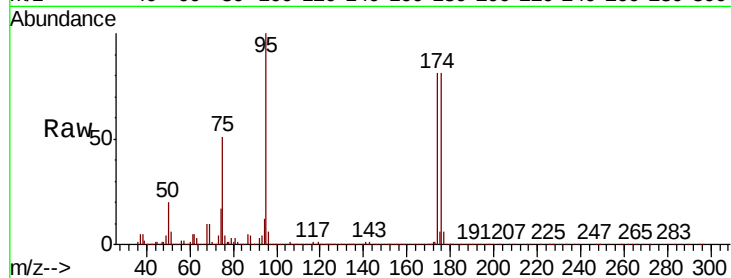
ClientSampleId :

Tot Ion: 75 Resp: 154161

Ion Ratio Lower Upper

75 100

77 1.6 18.4 55.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 63.133 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014925.D

Acq: 12 Feb 2020 15:01

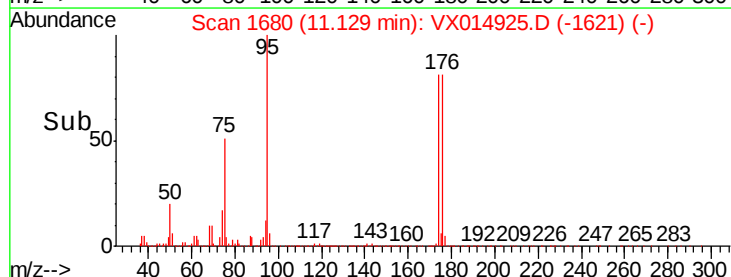
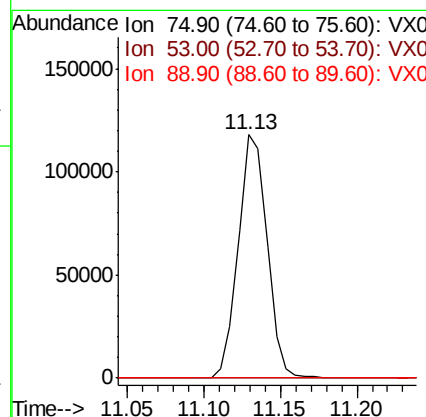
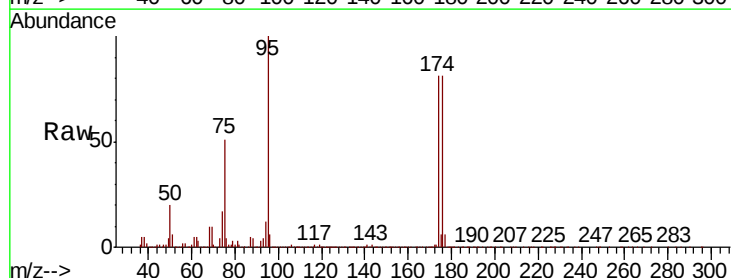
Tgt Ion: 75 Resp: 154161

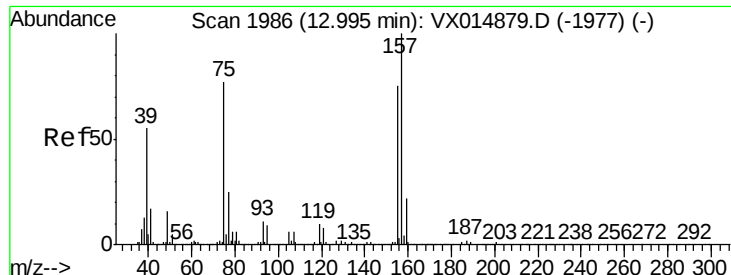
Ion Ratio Lower Upper

75 100

53 0.1 76.2 114.2#

89 0.1 35.8 53.6#





#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.202 ug/l
 RT: 13.01 min Scan# 1988
 Delta R.T. 0.01 min
 Lab File: VX014925.D
 Acq: 12 Feb 2020 15:01

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
75	100		
155	7.2	48.6	145.9#
157	0.0	62.0	186.0#

