

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX052919\
 Data File : VX009933.D
 Acq On : 29 May 2019 12:32
 Operator : JC/SP
 Sample : K3038-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LF012MW200-190522

Quant Time: May 30 01:13:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X052819W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 29 04:00:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	187673	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	302391	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	273615	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	115321	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	129284	48.77	ug/l	0.00
Spiked Amount			Recovery	=	97.54%	
35) Dibromofluoromethane	5.50	113	93807	49.34	ug/l	0.00
Spiked Amount			Recovery	=	98.68%	
50) Toluene-d8	8.71	98	386847	50.11	ug/l	0.00
Spiked Amount			Recovery	=	100.22%	
62) 4-Bromofluorobenzene	11.13	95	129980	46.87	ug/l	0.00
Spiked Amount			Recovery	=	93.74%	

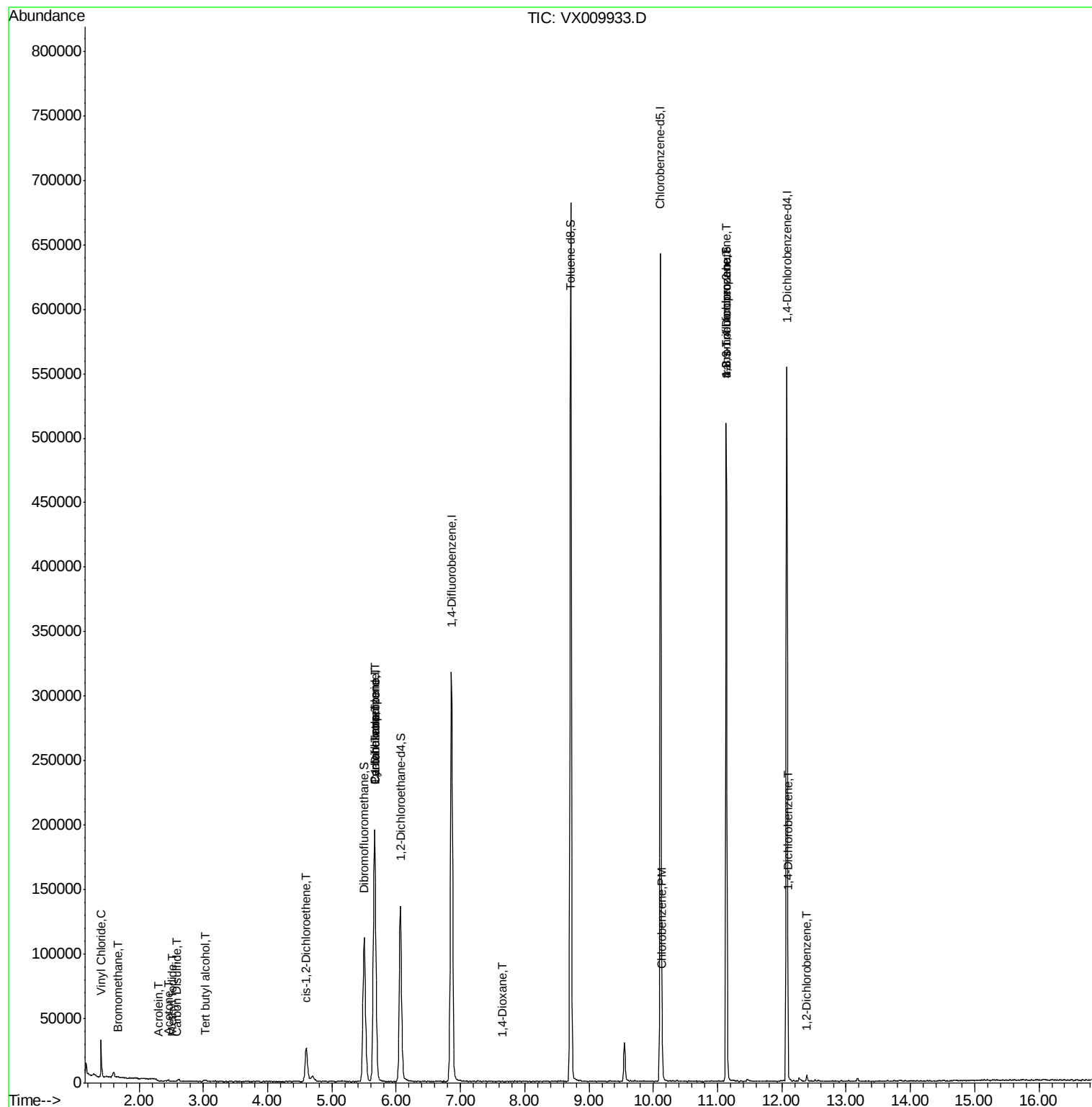
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.41	62	17793	6.402	ug/l	99
5) Bromomethane	1.66	94	347	0.206	ug/l #	63
10) Methyl Iodide	2.52	142	90	4.692	ug/l #	70
11) Tert butyl alcohol	3.03	59	1267	1.942	ug/l #	77
13) Acrolein	2.30	56	70	21.236	ug/l #	1
16) Acetone	2.45	43	1309	0.855	ug/l	100
17) Carbon Disulfide	2.58	76	658	0.498	ug/l #	81
27) cis-1,2-Dichloroethene	4.60	96	16151	6.616	ug/l	87
31) Cyclohexane	5.66	56	4623	1.146	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	14892	4.854	ug/l #	51
38) Carbon Tetrachloride	5.67	117	18041	6.805	ug/l #	18
49) 1,4-Dioxane	7.65	88	19	0.299	ug/l #	1
65) Chlorobenzene	10.14	112	9066	1.583	ug/l	97
76) 1,2,3-Trichloropropane	11.13	75	67760	24.571	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	67760	60.793	ug/l #	10
88) 1,4-Dichlorobenzene	12.10	146	895	0.227	ug/l #	36
91) 1,2-Dichlorobenzene	12.39	146	979	0.257	ug/l	85

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX009933.D

Acq: 29 May 2019 12:32

Instrument :

MSVOA_X

ClientSampleId :

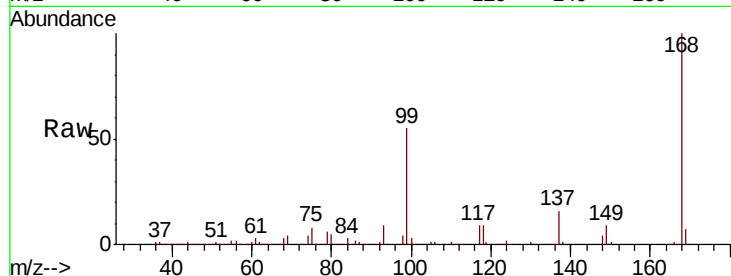
LF012MW200-190522

Tot Ion:168 Resp: 187673

Ion Ratio Lower Upper

168 100

99 55.0 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

60000

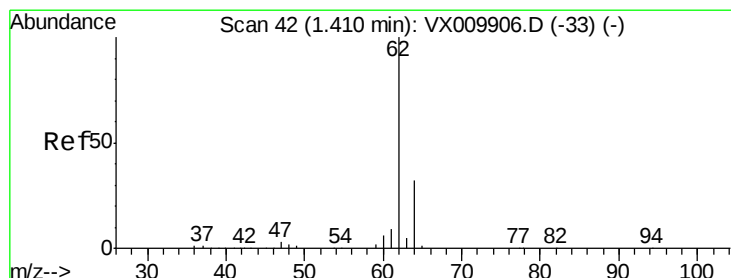
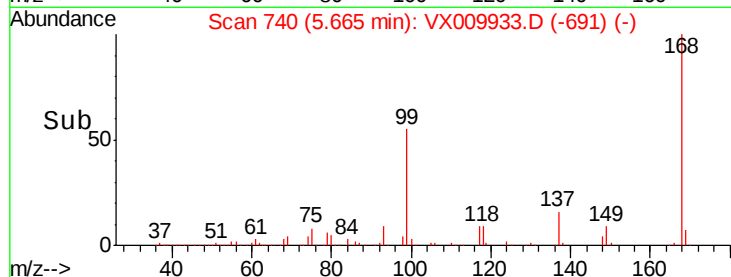
40000

20000

0

Time-->

5.60 5.70 5.80



#4

Vinyl Chloride

Concen: 6.402 ug/l

RT: 1.41 min Scan# 42

Delta R.T. 0.00 min

Lab File: VX009933.D

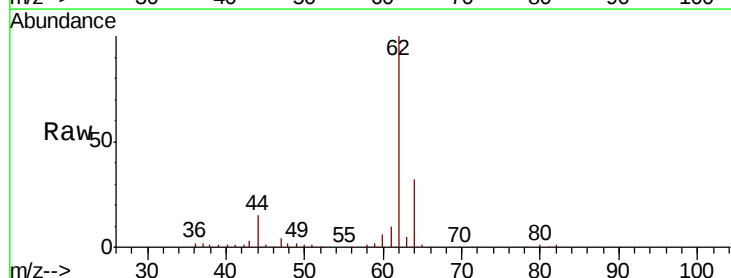
Acq: 29 May 2019 12:32

Tgt Ion: 62 Resp: 17793

Ion Ratio Lower Upper

62 100

64 32.5 25.7 38.5



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.41

20000

15000

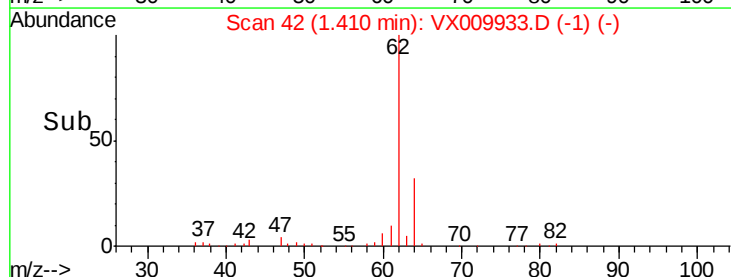
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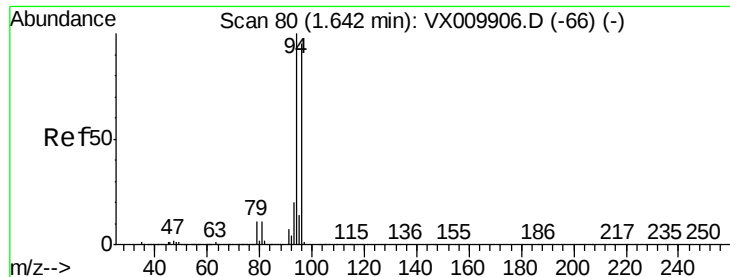
5000

0

Time-->

1.35 1.40 1.45 1.50





#5

Bromomethane

Concen: 0.206 ug/l

RT: 1.66 min Scan# 83

Delta R.T. 0.02 min

Lab File: VX009933.D

Acq: 29 May 2019 12:32

Instrument :

MSVOA_X

ClientSampleId :

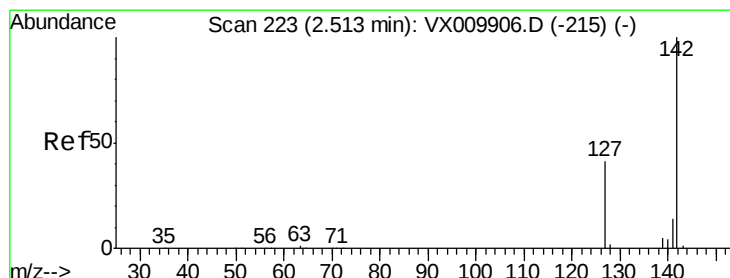
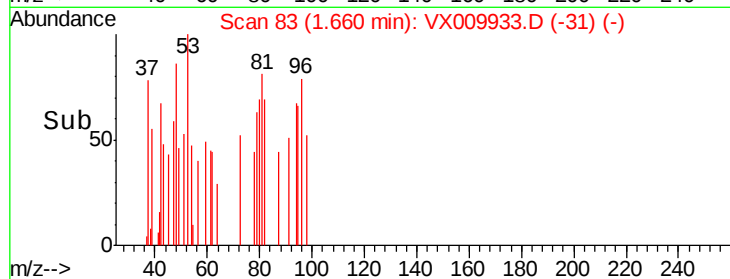
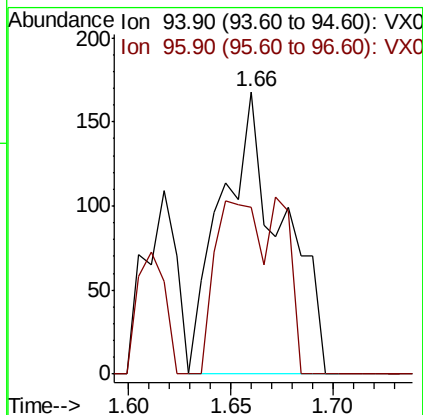
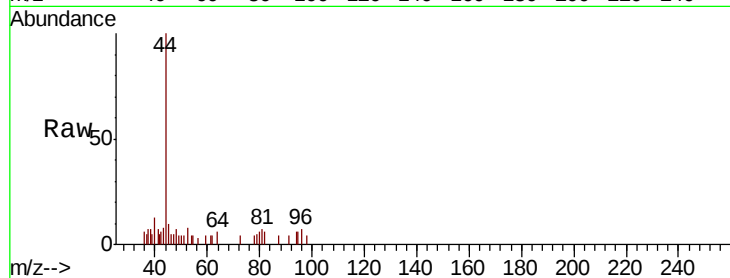
LF012MW200-190522

Tot Ion: 94 Resp: 347

Ion Ratio Lower Upper

94 100

96 58.9 76.2 114.4#



#10

Methyl Iodide

Concen: 4.692 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX009933.D

Acq: 29 May 2019 12:32

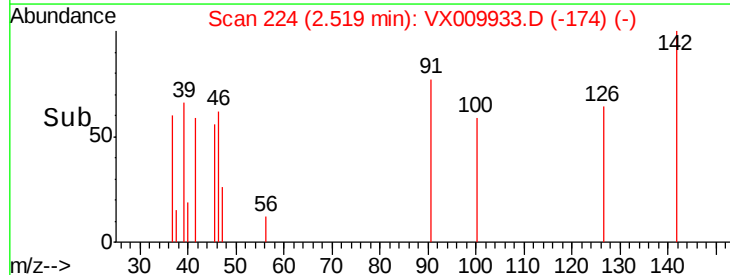
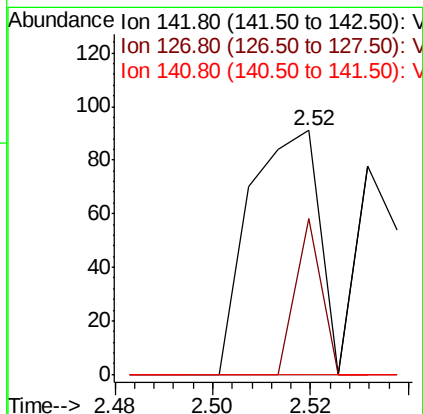
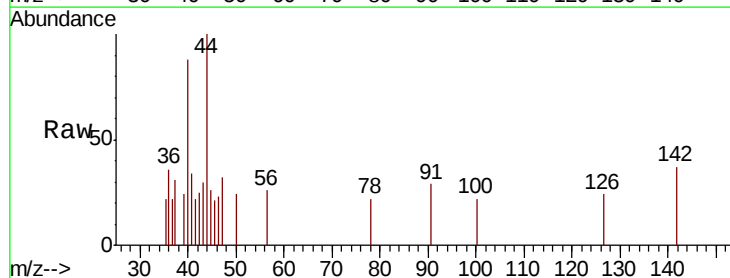
Tgt Ion: 142 Resp: 90

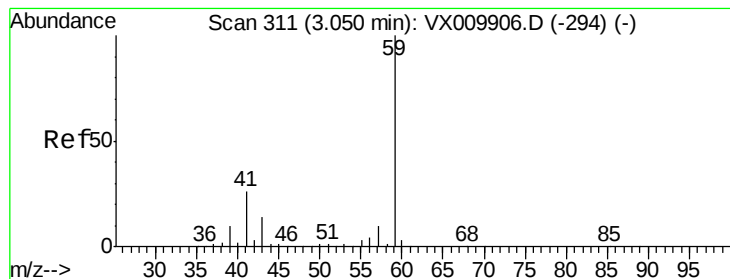
Ion Ratio Lower Upper

142 100

127 23.3 33.0 49.4#

141 0.0 11.4 17.0#



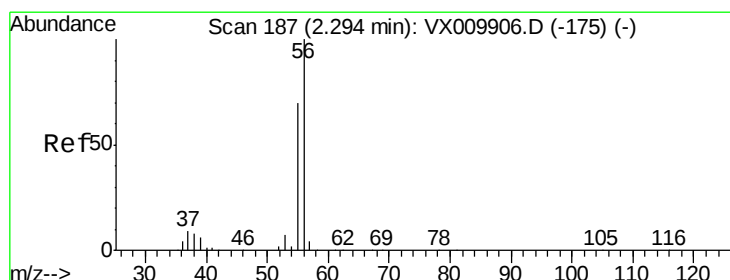
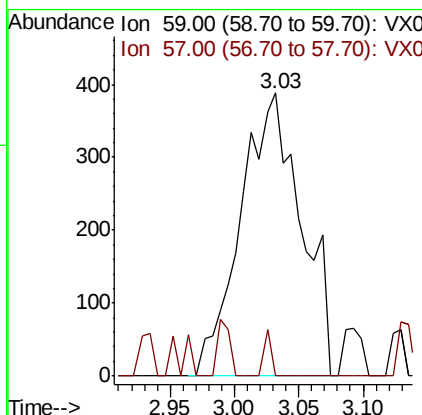
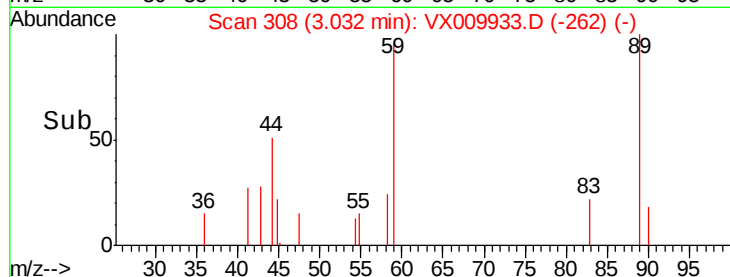
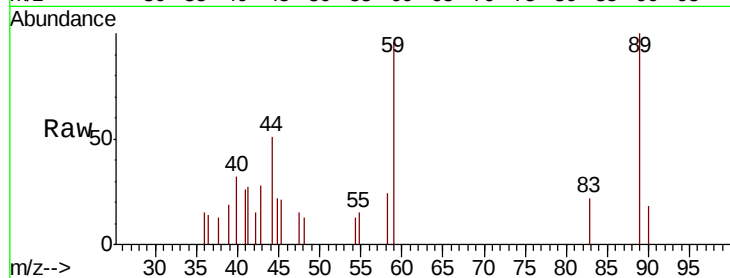


#11

Tert butyl alcohol
 Concen: 1.942 ug/l
 RT: 3.03 min Scan# 308
 Delta R.T. -0.02 min
 Lab File: VX009933.D
 Acq: 29 May 2019 12:32

Instrument :
 MSVOA_X
 ClientSampleId :
 LF012MW200-190522

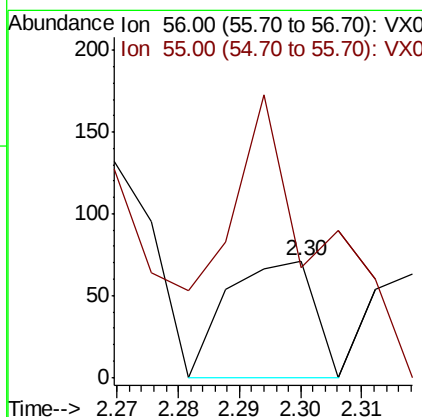
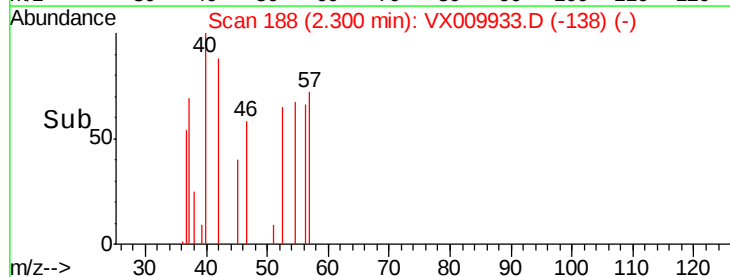
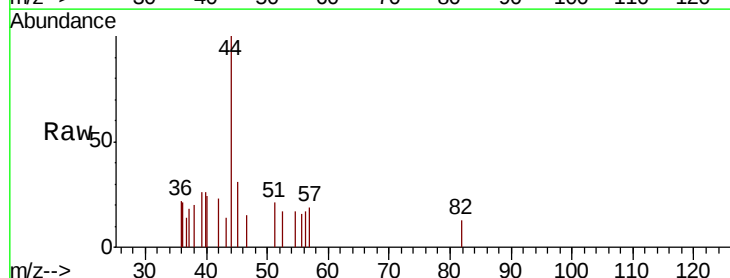
Tot Ion: 59.00 Resp: 1267
 Ion Ratio Lower Upper
 59 100
 57 1.8 8.2 12.2#

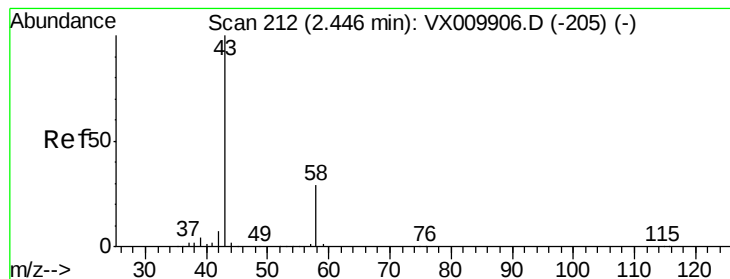


#13

Acrolein
 Concen: 21.236 ug/l
 RT: 2.30 min Scan# 188
 Delta R.T. 0.01 min
 Lab File: VX009933.D
 Acq: 29 May 2019 12:32

Tgt Ion: 56 Resp: 70
 Ion Ratio Lower Upper
 56 100
 55 247.1 57.0 85.4#





#16

Acetone

Concen: 0.855 ug/l

RT: 2.45 min Scan# 213

Delta R.T. 0.01 min

Lab File: VX009933.D

Acq: 29 May 2019 12:32

Instrument :

MSVOA_X

ClientSampleId :

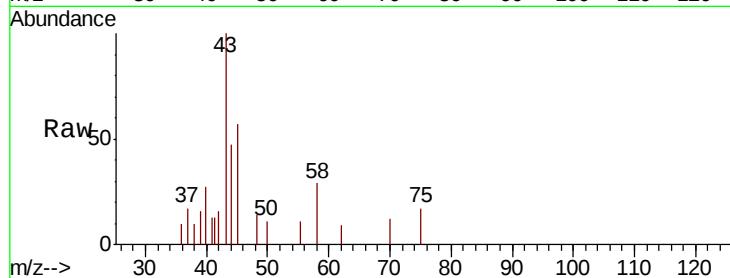
LF012MW200-190522

Tot Ion: 43 Resp: 1309

Ion Ratio Lower Upper

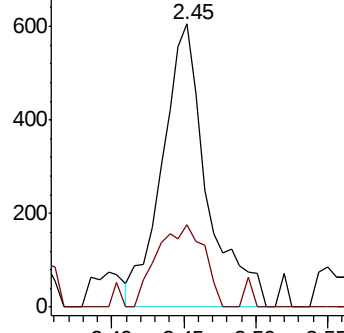
43 100

58 28.9 23.2 34.8

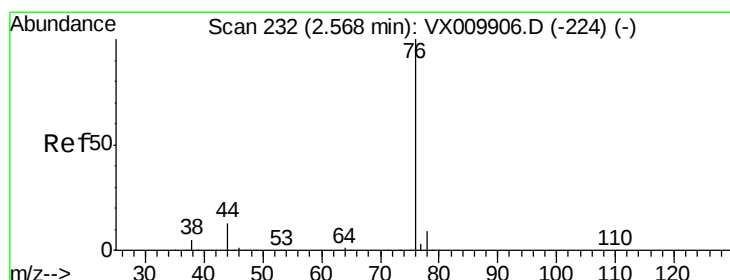
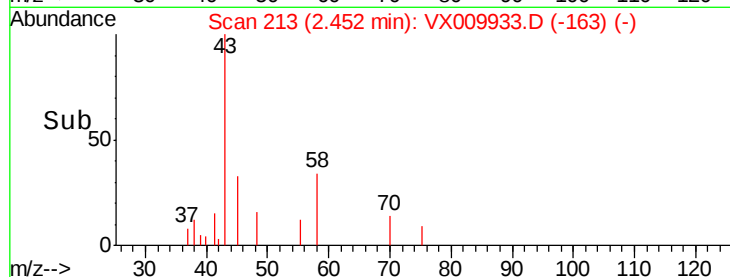


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->



#17

Carbon Disulfide

Concen: 0.498 ug/l

RT: 2.58 min Scan# 234

Delta R.T. 0.01 min

Lab File: VX009933.D

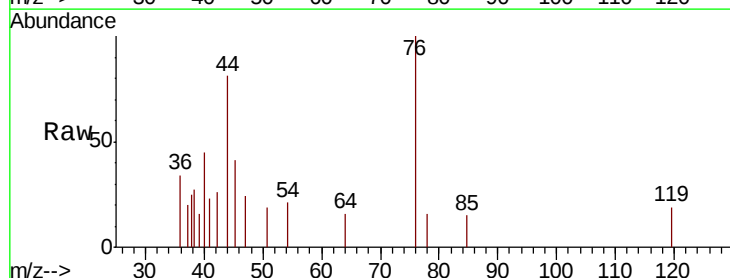
Acq: 29 May 2019 12:32

Tgt Ion: 76 Resp: 658

Ion Ratio Lower Upper

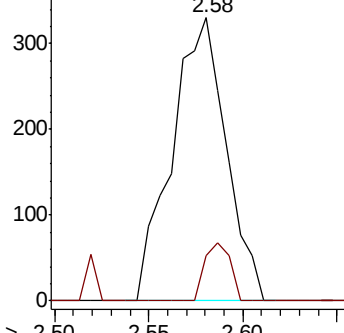
76 100

78 15.8 7.0 10.6#

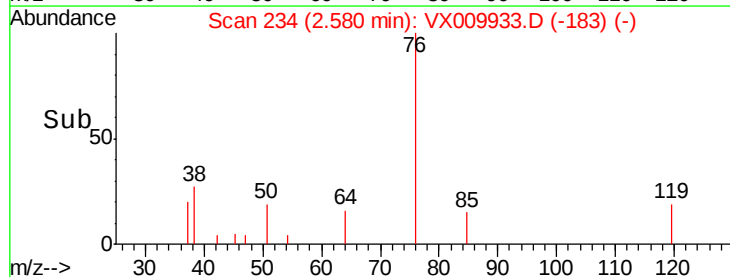


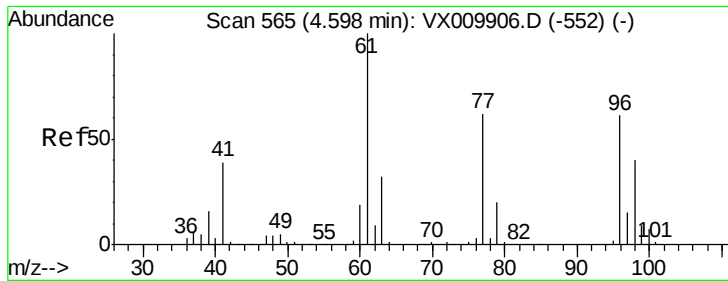
Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



Time-->



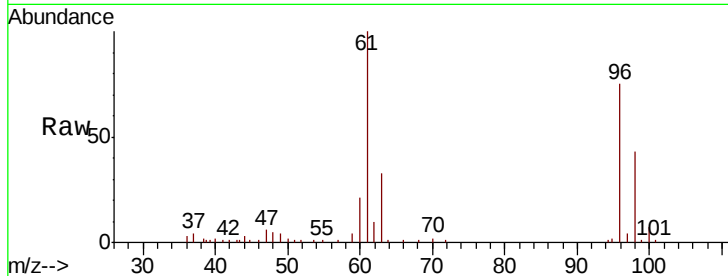


#27

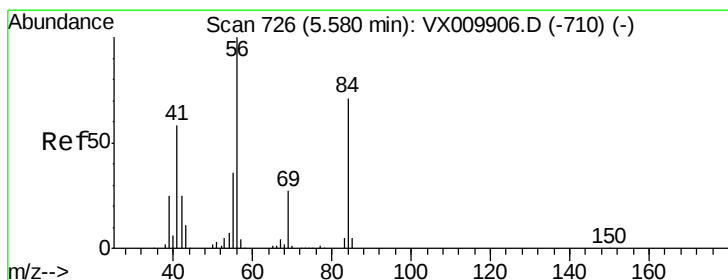
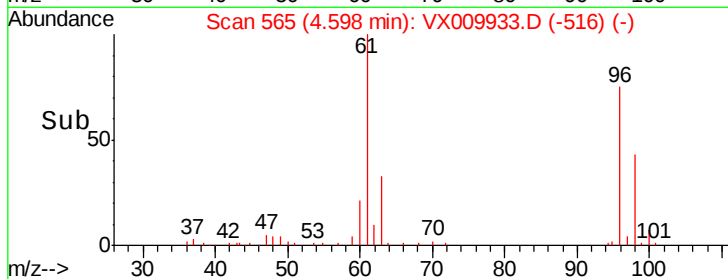
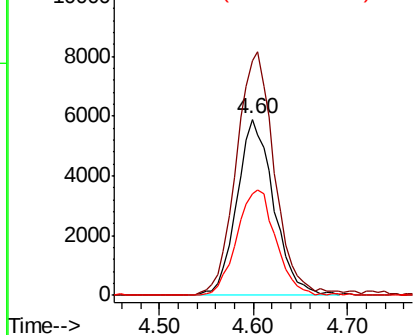
cis-1,2-Dichloroethene
Concen: 6.616 ug/l
RT: 4.60 min Scan# 565
Delta R.T. 0.00 min
Lab File: VX009933.D
Acq: 29 May 2019 12:32

Instrument :
MSVOA_X
ClientSampleId :
LF012MW200-190522

Tot Ion: 96 Resp: 16151
Ion Ratio Lower Upper
96 100
61 144.3 0.0 334.0
98 63.1 0.0 131.6



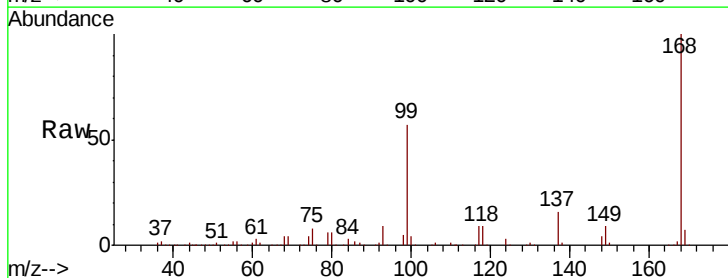
Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



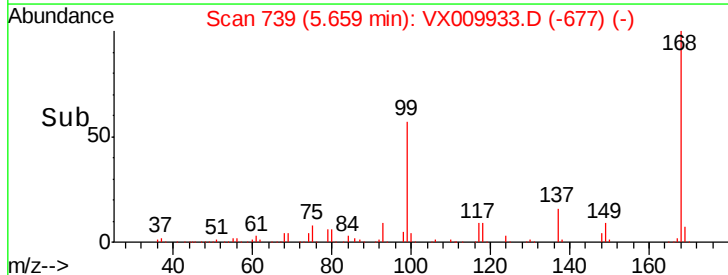
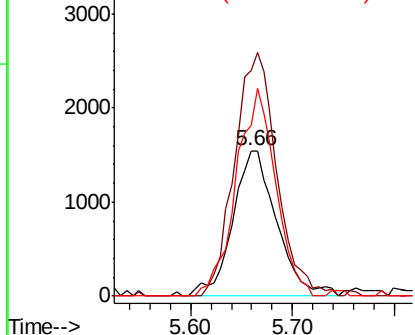
#31

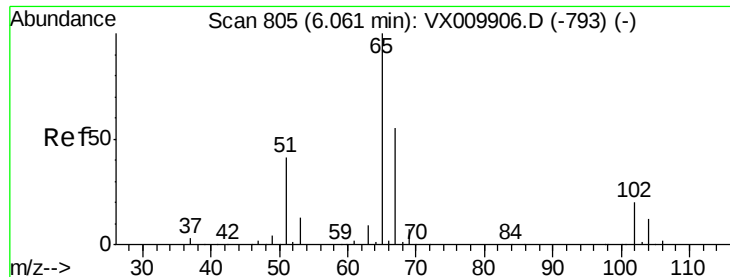
Cyclohexane
Concen: 1.146 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.08 min
Lab File: VX009933.D
Acq: 29 May 2019 12:32

Tgt Ion: 56 Resp: 4623
Ion Ratio Lower Upper
56 100
69 154.8 21.6 32.4#
84 117.6 56.8 85.2#



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

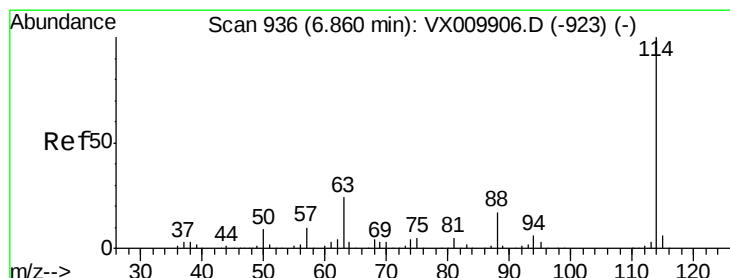
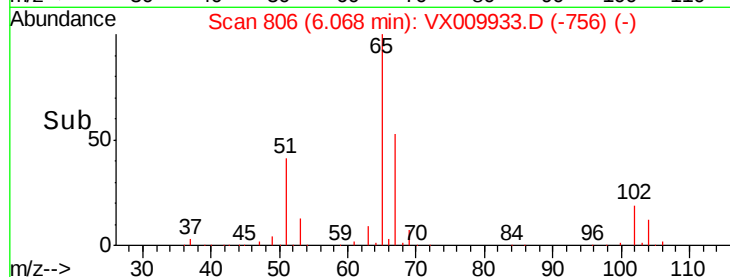
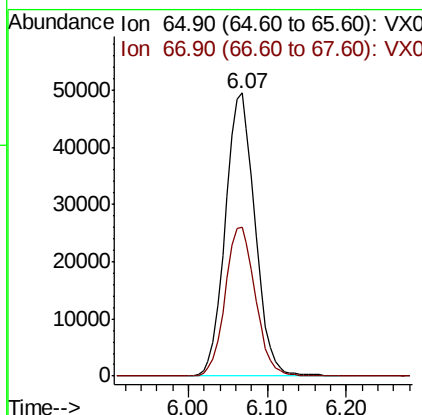
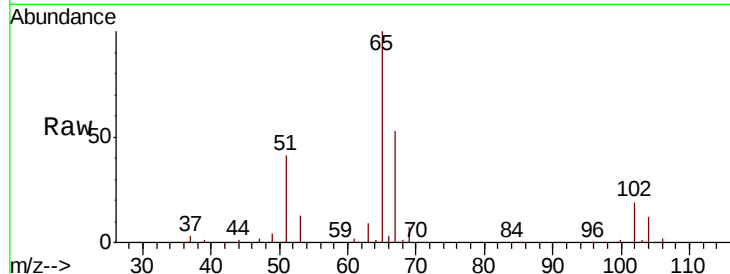




#33
 1,2-Dichloroethane-d4
 Concen: 48.767 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. 0.01 min
 Lab File: VX009933.D
 Acq: 29 May 2019 12:32

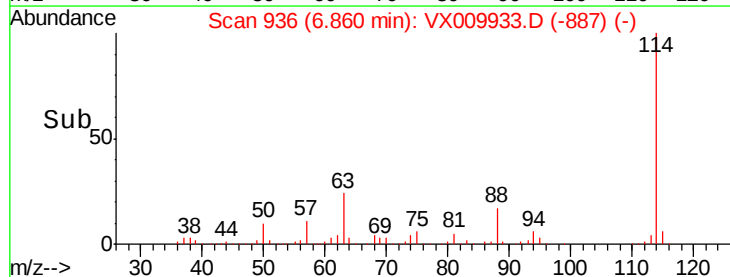
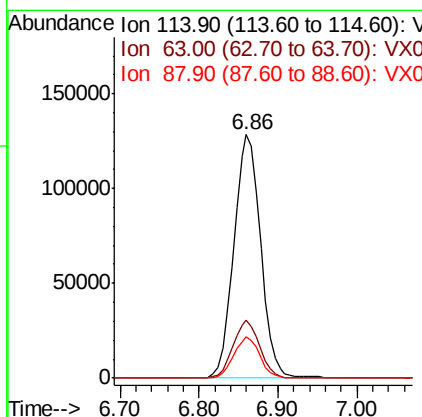
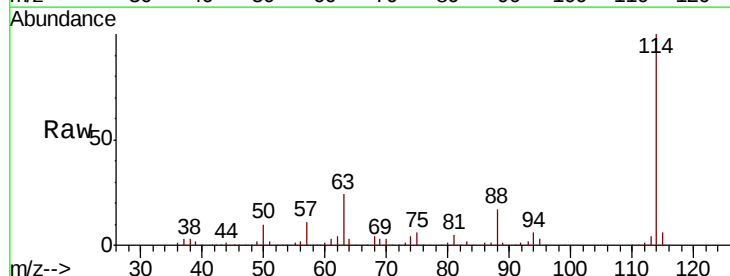
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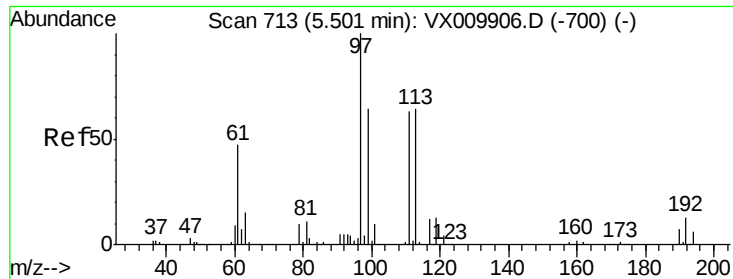
Tot Ion: 65 Resp: 129284
 Ion Ratio Lower Upper
 65 100
 67 53.6 0.0 108.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX009933.D
 Acq: 29 May 2019 12:32

Tgt Ion: 114 Resp: 302391
 Ion Ratio Lower Upper
 114 100
 63 23.8 0.0 47.4
 88 16.9 0.0 33.0

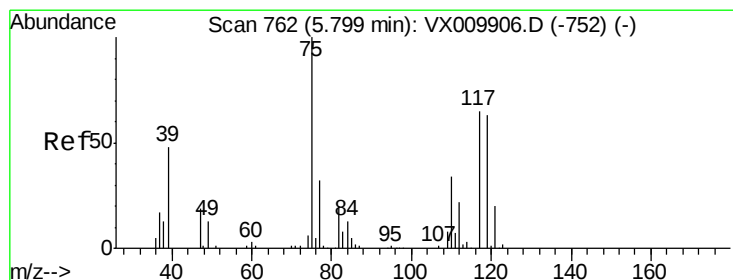
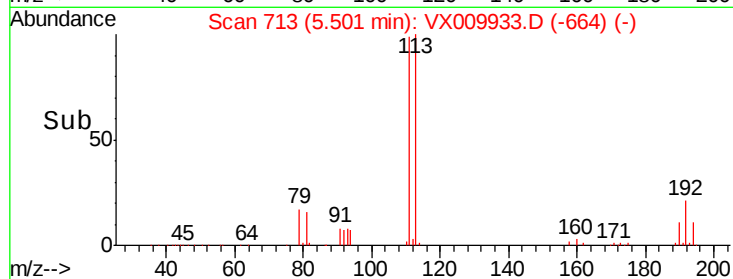
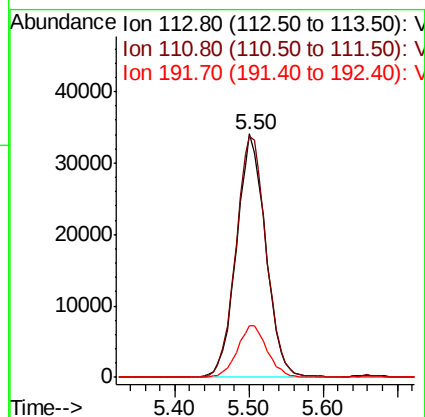
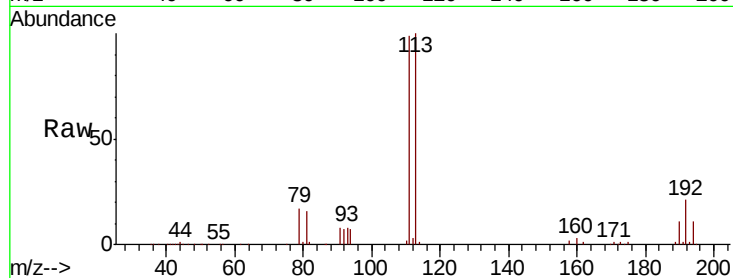




#35
 Dibromofluoromethane
 Concen: 49.342 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.00 min
 Lab File: VX009933.D
 Acq: 29 May 2019 12:32

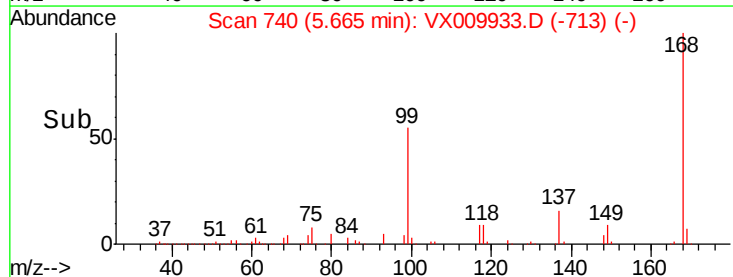
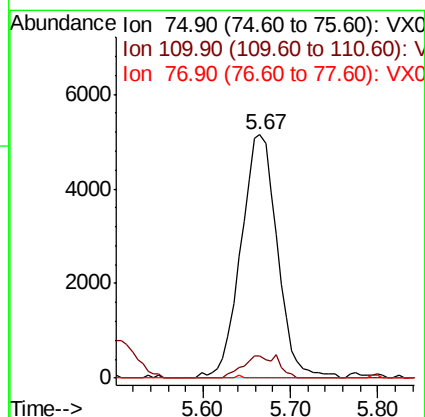
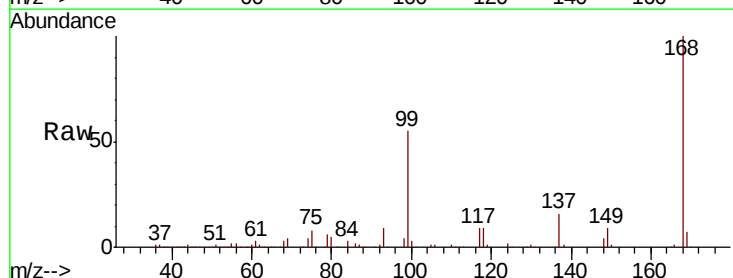
Instrument :
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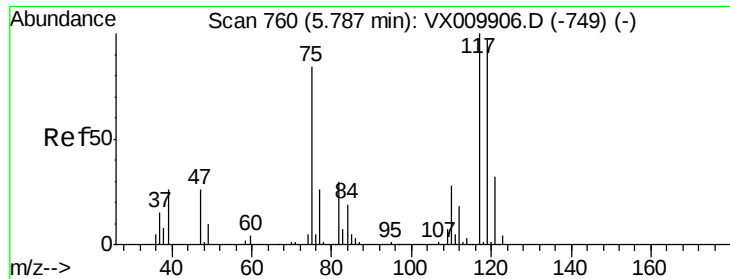
Tot Ion:113 Resp: 93807
 Ion Ratio Lower Upper
 113 100
 111 102.5 82.2 123.2
 192 21.7 17.1 25.7



#36
 1,1-Dichloropropene
 Concen: 4.854 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX009933.D
 Acq: 29 May 2019 12:32

Tgt Ion: 75 Resp: 14892
 Ion Ratio Lower Upper
 75 100
 110 9.1 16.7 50.1#
 77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 6.805 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX009933.D

Acq: 29 May 2019 12:32

Instrument :

MSVOA_X

ClientSampleId :

LF012MW200-190522

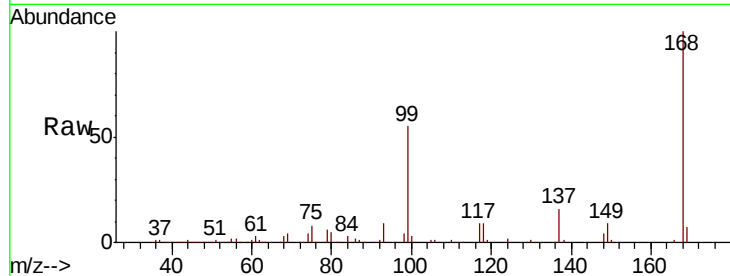
Tot Ion:117 Resp: 18041

Ion Ratio Lower Upper

117 100

119 8.1 77.3 115.9#

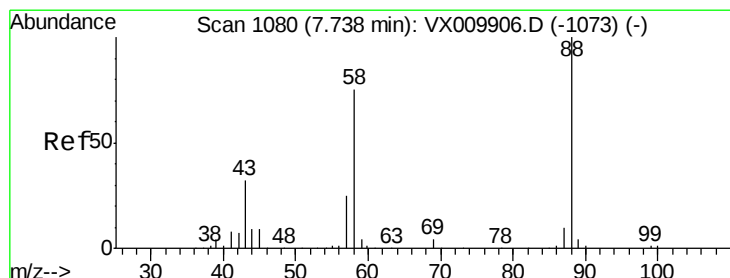
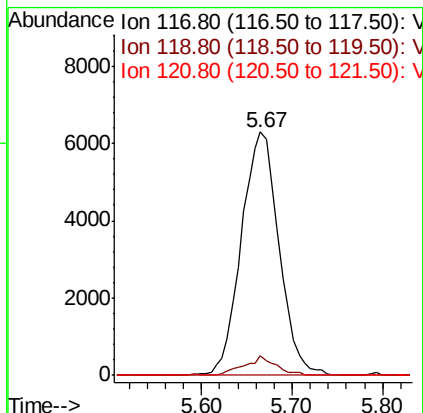
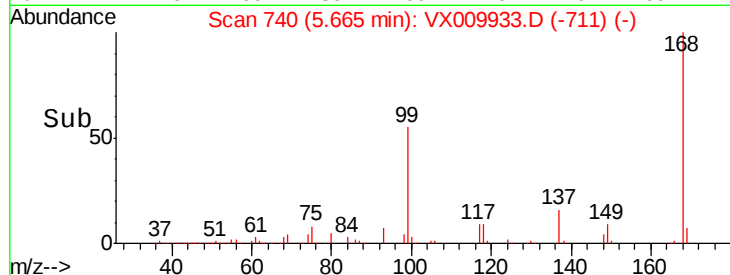
121 0.0 25.4 38.0#



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: 0.299 ug/l

RT: 7.65 min Scan# 1066

Delta R.T. -0.09 min

Lab File: VX009933.D

Acq: 29 May 2019 12:32

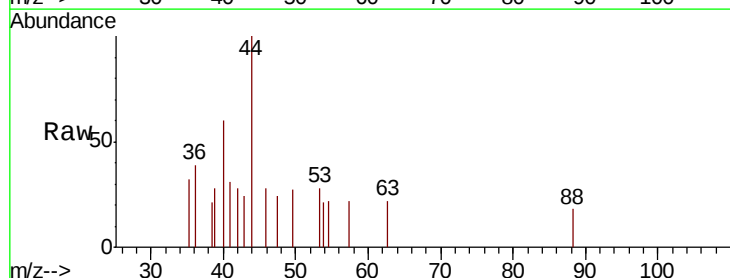
Tgt Ion: 88 Resp: 19

Ion Ratio Lower Upper

88 100

43 373.7 30.2 45.4#

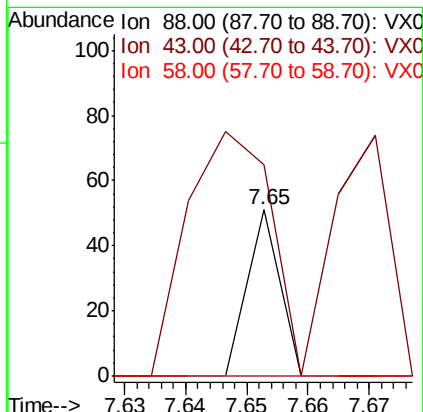
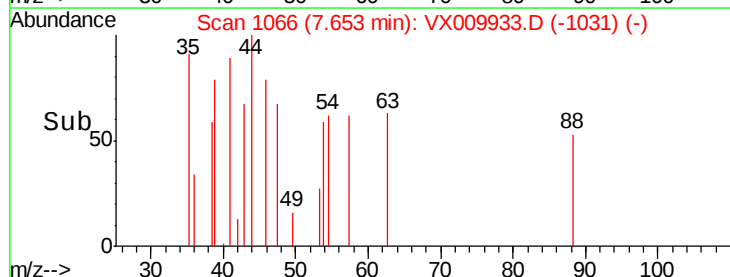
58 0.0 64.0 96.0#

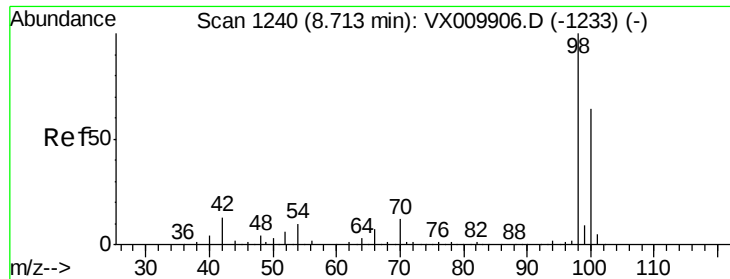


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.109 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX009933.D

Acq: 29 May 2019 12:32

Instrument :

MSVOA_X

ClientSampleId :

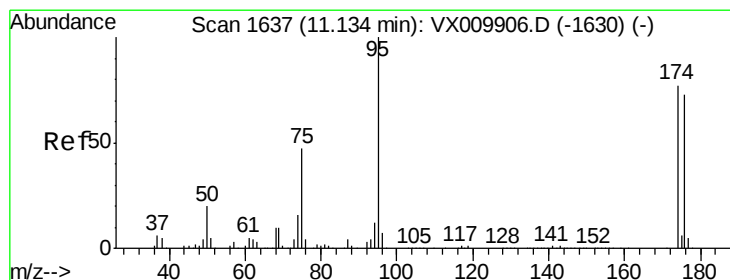
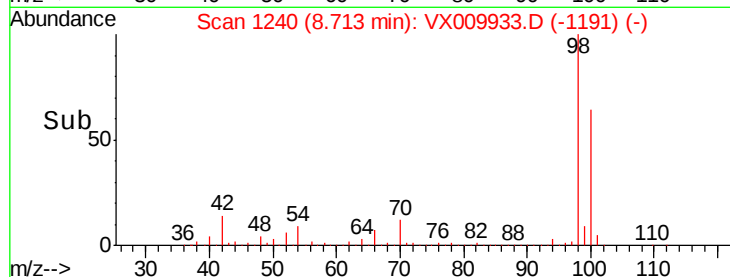
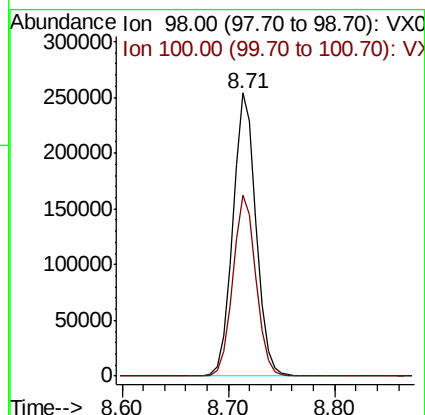
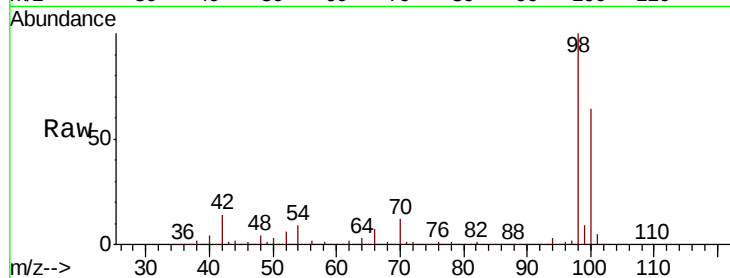
LF012MW200-190522

Tot Ion: 98 Resp: 386847

Ion Ratio Lower Upper

98 100

100 63.8 51.5 77.3



#62

4-Bromofluorobenzene

Concen: 46.875 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX009933.D

Acq: 29 May 2019 12:32

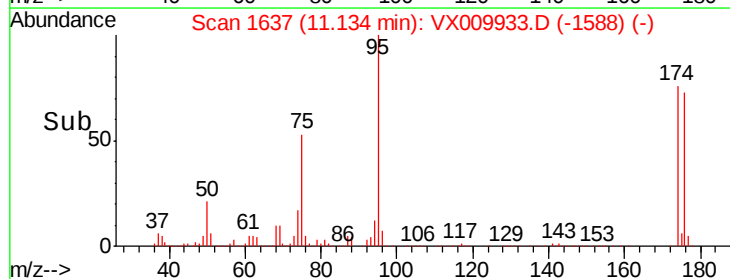
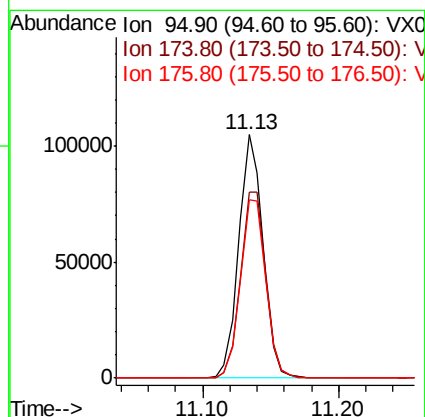
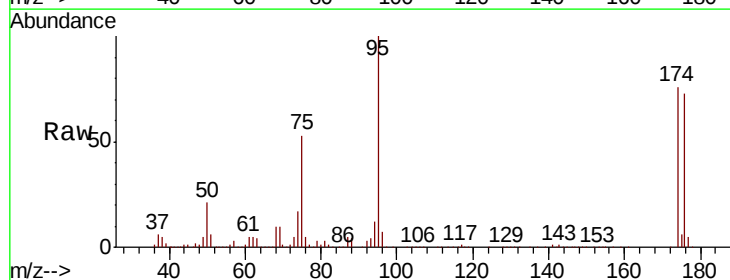
Tgt Ion: 95 Resp: 129980

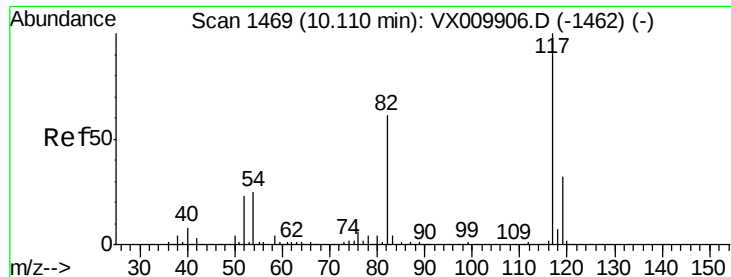
Ion Ratio Lower Upper

95 100

174 80.7 0.0 160.4

176 76.7 0.0 154.6

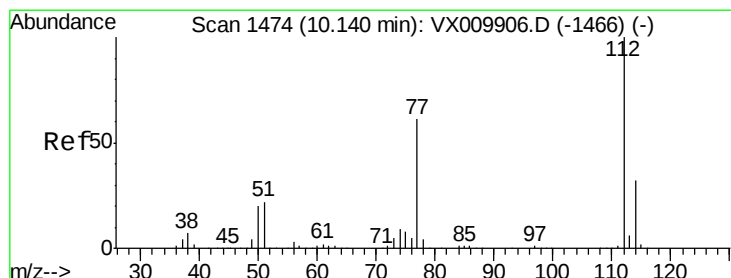
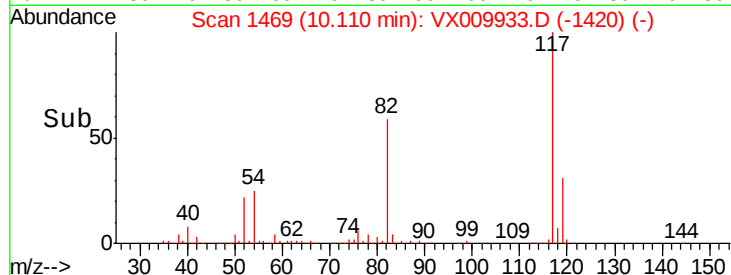
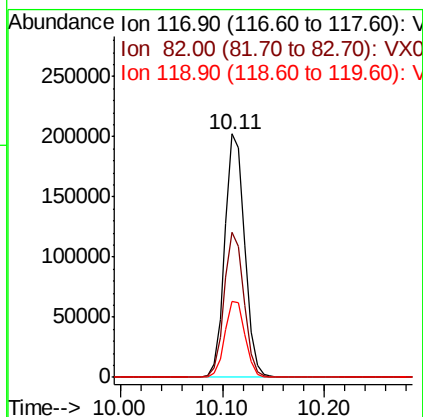
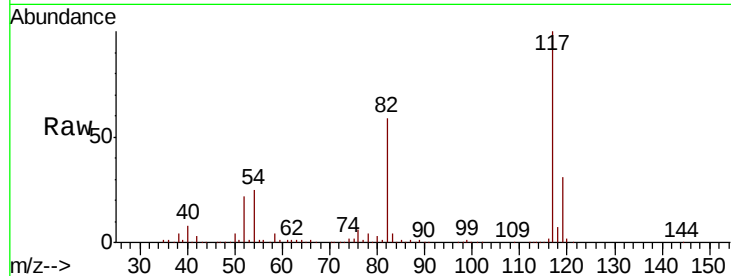




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX009933.D
Acq: 29 May 2019 12:32

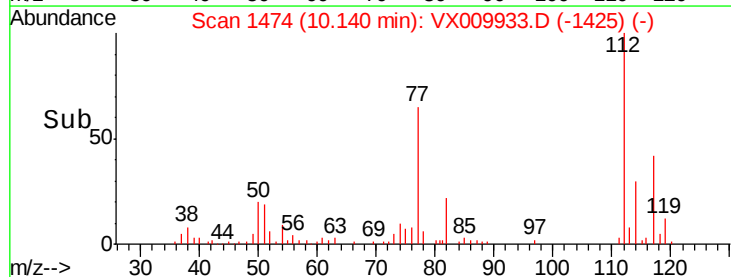
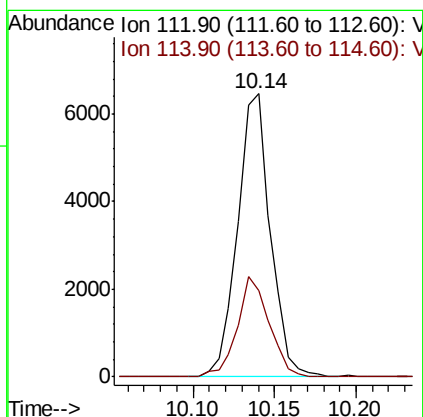
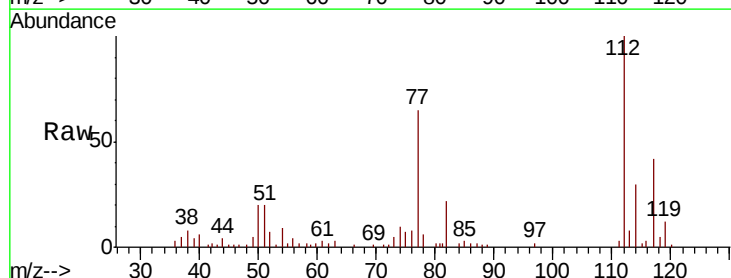
Instrument :
MSVOA_X
ClientSampleId :
LF012MW200-190522

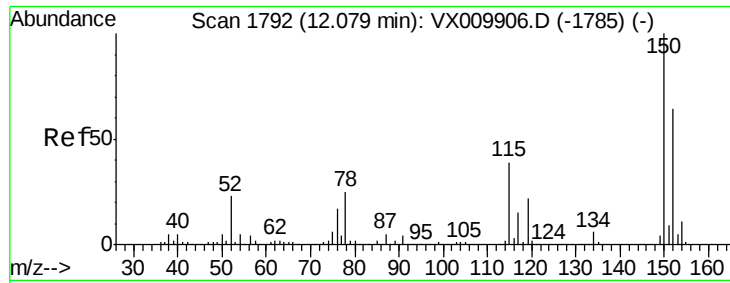
Tot Ion:117 Resp: 273615
Ion Ratio Lower Upper
117 100
82 59.3 49.2 73.8
119 31.4 25.2 37.8



#65
Chlorobenzene
Concen: 1.583 ug/l
RT: 10.14 min Scan# 1474
Delta R.T. 0.00 min
Lab File: VX009933.D
Acq: 29 May 2019 12:32

Tgt Ion:112 Resp: 9066
Ion Ratio Lower Upper
112 100
114 30.5 25.8 38.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX009933.D

Acq: 29 May 2019 12:32

Instrument :

MSVOA_X

ClientSampleId :

LF012MW200-190522

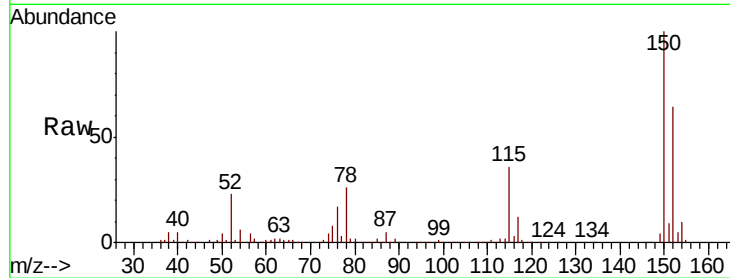
Tot Ion:152 Resp: 115321

Ion Ratio Lower Upper

152 100

115 59.4 41.4 124.2

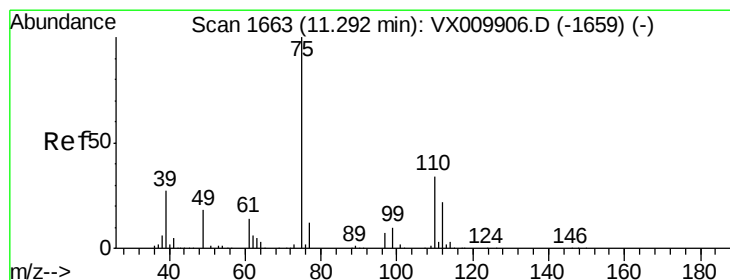
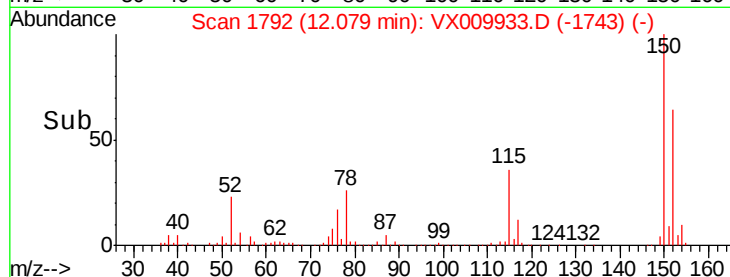
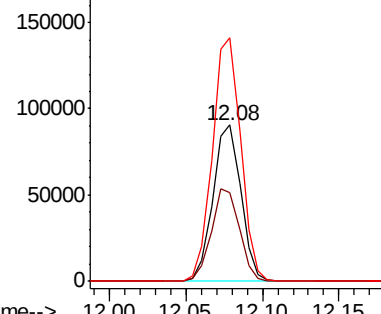
150 157.2 0.0 345.2



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: 24.571 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009933.D

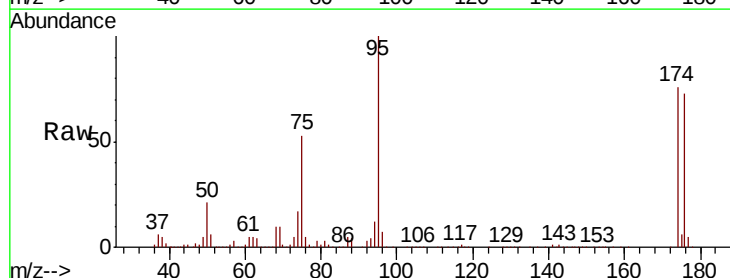
Acq: 29 May 2019 12:32

Tgt Ion: 75 Resp: 67760

Ion Ratio Lower Upper

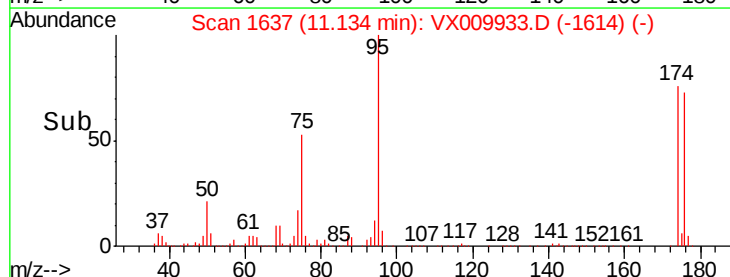
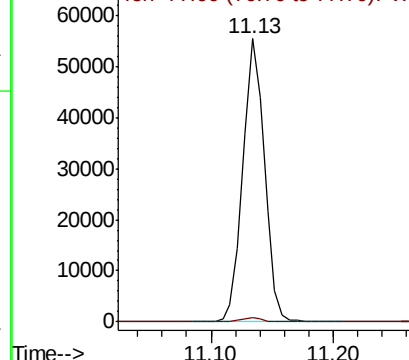
75 100

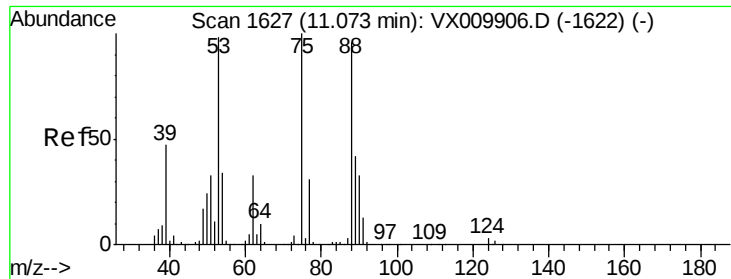
77 1.4 22.1 66.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 60.793 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009933.D

Acq: 29 May 2019 12:32

Instrument :

MSVOA_X

ClientSampleId :

LF012MW200-190522

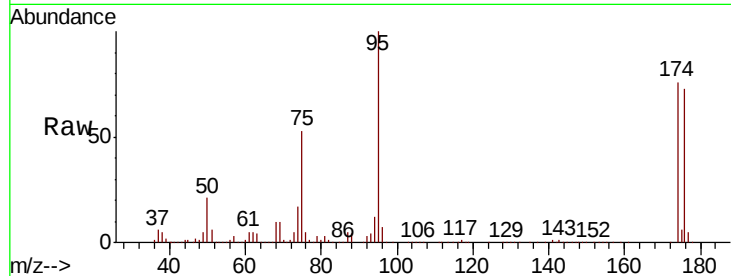
Tot Ion: 75 Resp: 67760

Ion Ratio Lower Upper

75 100

53 0.1 79.8 119.6#

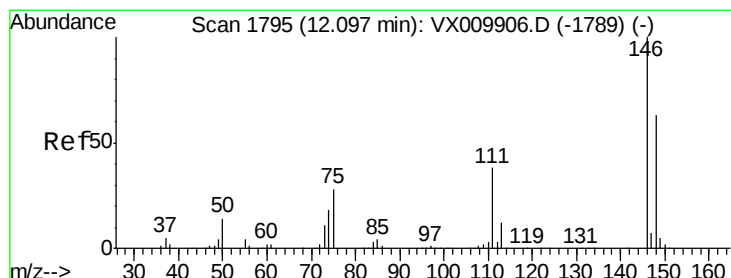
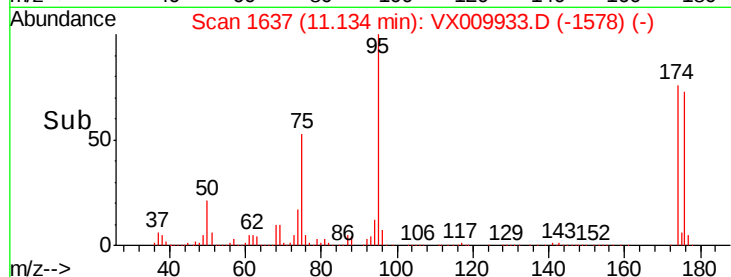
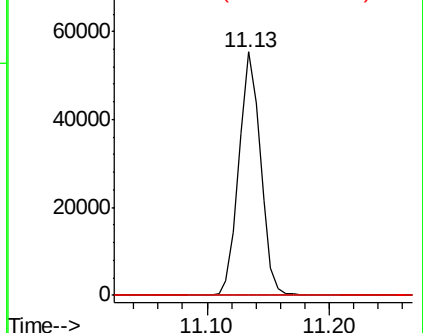
89 0.0 34.2 51.4#



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: 0.227 ug/l

RT: 12.10 min Scan# 1795

Delta R.T. 0.00 min

Lab File: VX009933.D

Acq: 29 May 2019 12:32

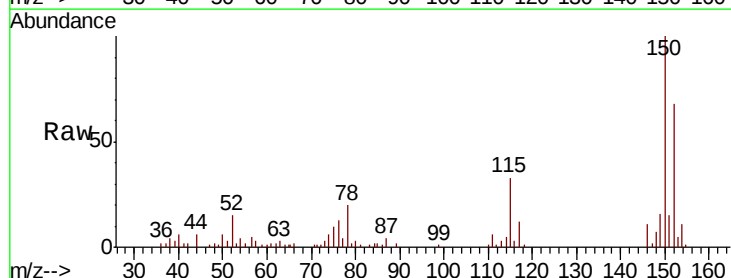
Tgt Ion: 146 Resp: 895

Ion Ratio Lower Upper

146 100

111 0.0 20.0 59.9#

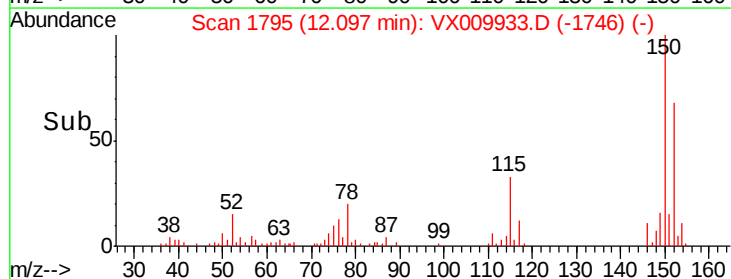
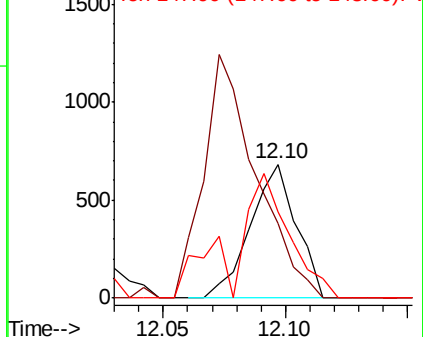
148 114.5 32.3 96.9#

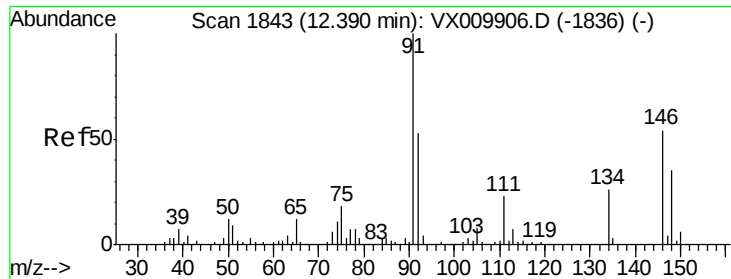


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

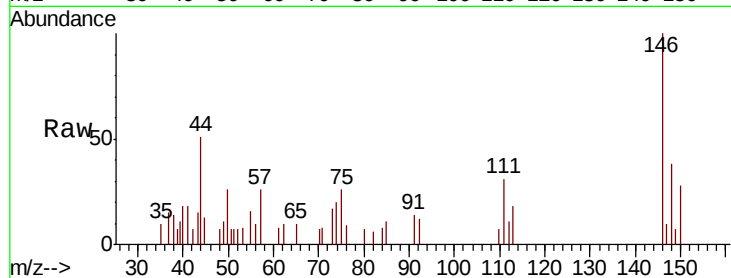




#91
 1,2-Dichlorobenzene
 Concen: 0.257 ug/l
 RT: 12.39 min Scan# 1843
 Delta R.T. 0.00 min
 Lab File: VX009933.D
 Acq: 29 May 2019 12:32

Instrument :
 MSVOA_X
 ClientSampleId :
 LF012MW200-190522

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.8	21.1	63.1
148	47.0	32.3	96.8



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

