

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061419\
 Data File : VX010302.D
 Acq On : 14 Jun 2019 15:52
 Operator : JC/SP
 Sample : K3309-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LF001MW002-190610

Quant Time: Jun 15 01:22:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X060719W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 08 02:12:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	317763	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	489487	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	438926	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	208379	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	144761	46.67	ug/l	0.00
Spiked Amount			Recovery	=	93.34%	
35) Dibromofluoromethane	5.50	113	146464	48.51	ug/l	0.00
Spiked Amount			Recovery	=	97.02%	
50) Toluene-d8	8.71	98	568993	50.28	ug/l	0.00
Spiked Amount			Recovery	=	100.56%	
62) 4-Bromofluorobenzene	11.13	95	196836	46.58	ug/l	0.00
Spiked Amount			Recovery	=	93.16%	

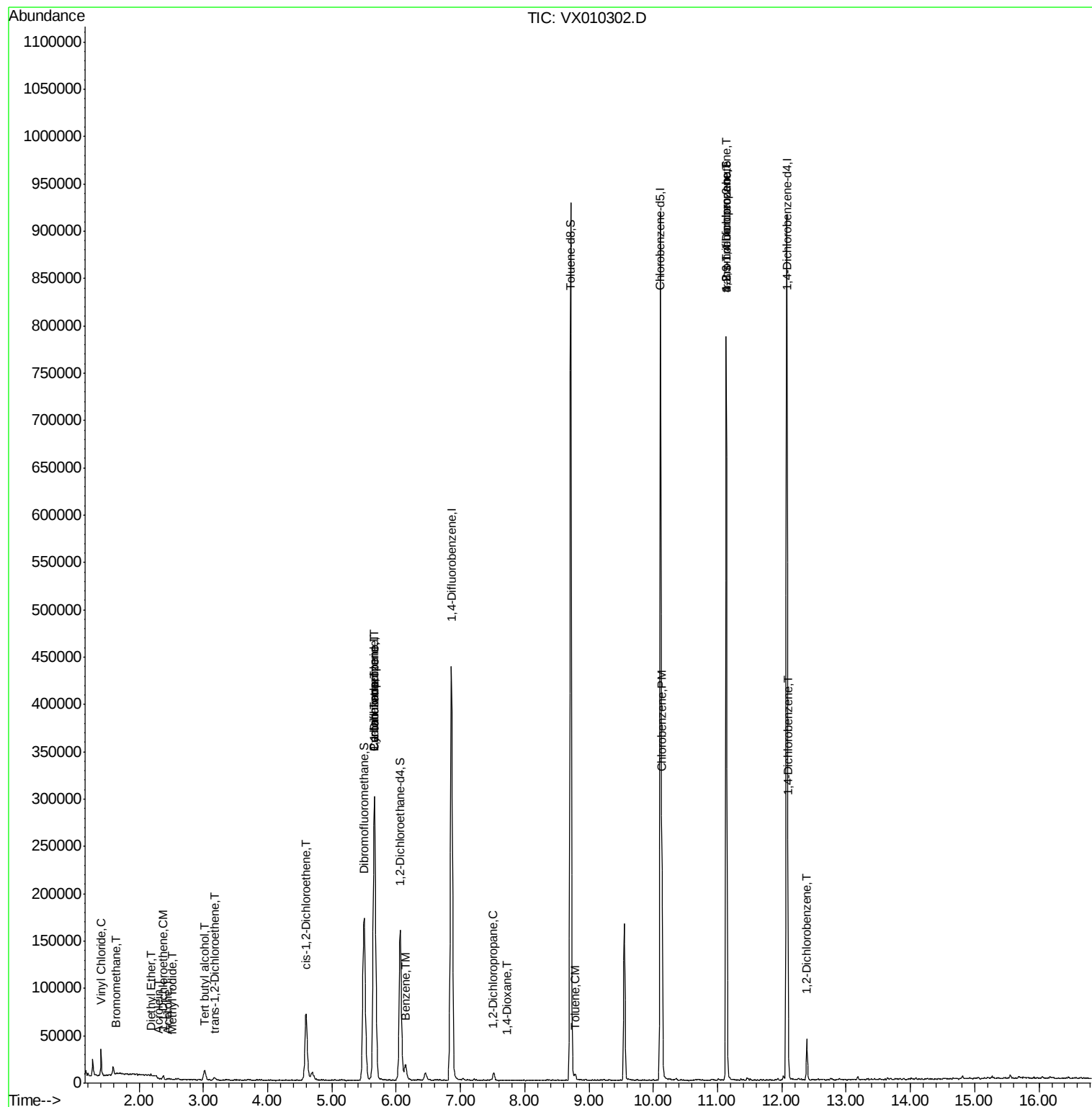
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.41	62	18123	6.641	ug/l	100
5) Bromomethane	1.65	94	375	0.364	ug/l #	59
8) Diethyl Ether	2.20	74	438	0.313	ug/l	79
10) Methyl Iodide	2.52	142	1030	0.238	ug/l	93
11) Tert butyl alcohol	3.01	59	6795	8.943	ug/l #	78
12) 1,1-Dichloroethene	2.38	96	1267	0.444	ug/l	84
13) Acrolein	2.31	56	87	0.628	ug/l #	74
16) Acetone	2.45	43	1116	0.765	ug/l #	72
21) trans-1,2-Dichloroethene	3.17	96	1096	0.347	ug/l #	74
27) cis-1,2-Dichloroethene	4.60	96	50037	14.240	ug/l	69
31) Cyclohexane	5.66	56	4889	1.083	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	19225	4.814	ug/l #	52
38) Carbon Tetrachloride	5.66	117	28306	6.262	ug/l #	17
40) Benzene	6.15	78	19573	1.585	ug/l	98
45) 1,2-Dichloropropane	7.51	63	3708	1.200	ug/l	96
49) 1,4-Dioxane	7.73	88	53	0.572	ug/l #	57
52) Toluene	8.79	92	2048	0.252	ug/l	89
65) Chlorobenzene	10.13	112	91355	10.084	ug/l	99
76) 1,2,3-Trichloropropane	11.13	75	90302	21.666	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	90302	47.869	ug/l #	10
88) 1,4-Dichlorobenzene	12.10	146	33140	4.666	ug/l	97
91) 1,2-Dichlorobenzene	12.39	146	14650	2.139	ug/l	97

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X060719W.M
Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX010302.D

Acq: 14 Jun 2019 15:52

Instrument :

MSVOA_X

ClientSampleId :

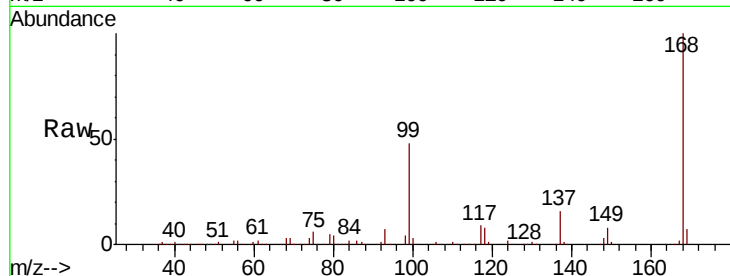
LF001MW002-190610

Tot Ion:168 Resp: 317763

Ion Ratio Lower Upper

168 100

99 48.5 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

120000

100000

80000

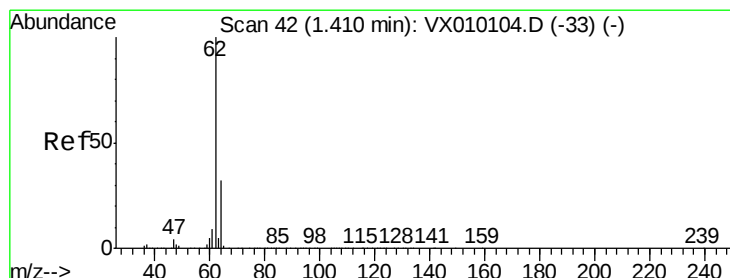
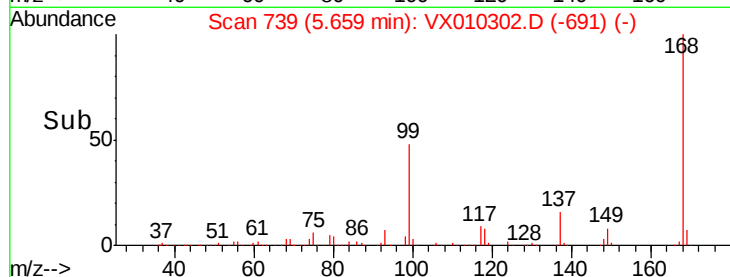
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#4

Vinyl Chloride

Concen: 6.641 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX010302.D

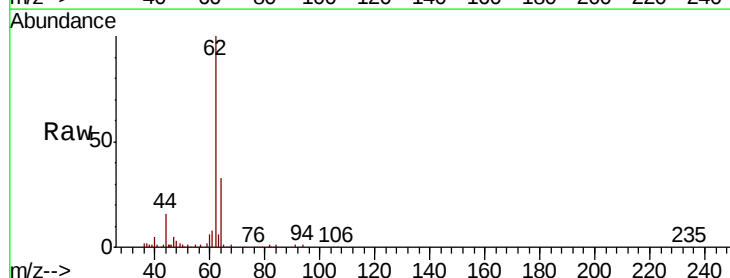
Acq: 14 Jun 2019 15:52

Tgt Ion: 62 Resp: 18123

Ion Ratio Lower Upper

62 100

64 32.2 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

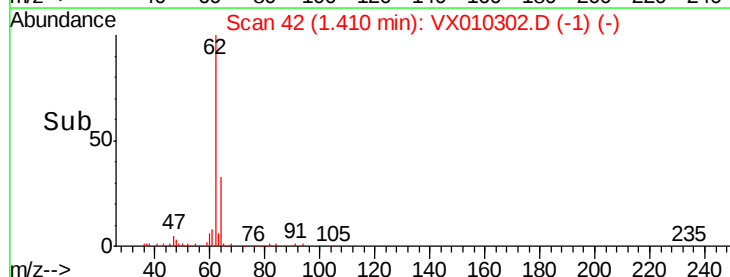
15000

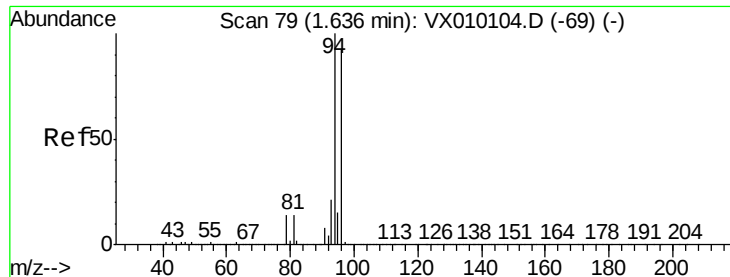
10000

5000

0

Time--> 1.35 1.40 1.45 1.50





#5

Bromomethane

Concen: 0.364 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX010302.D

Acq: 14 Jun 2019 15:52

Instrument :

MSVOA_X

ClientSampleId :

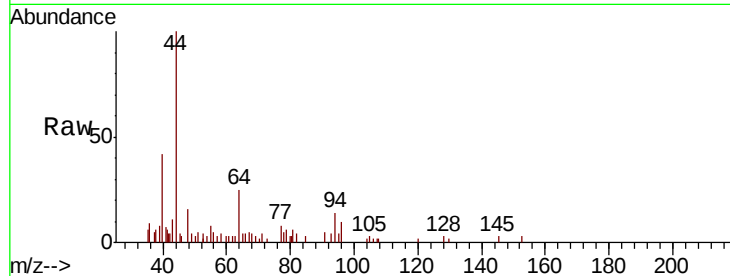
LF001MW002-190610

Tot Ion: 94 Resp: 375

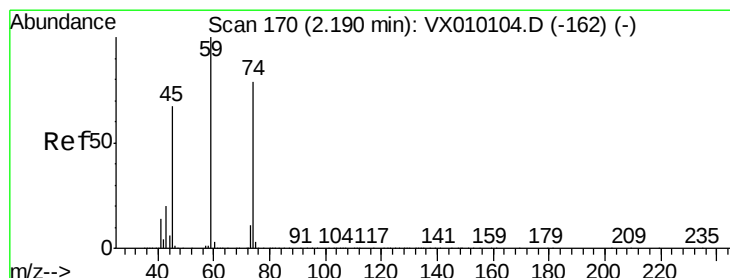
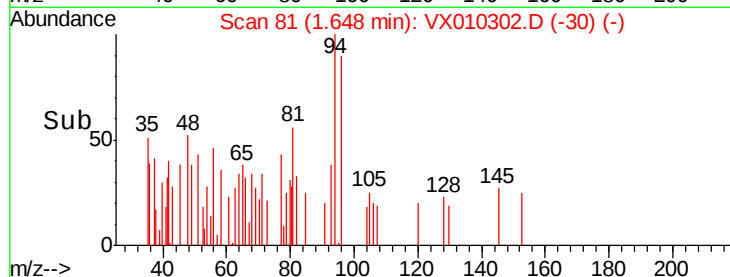
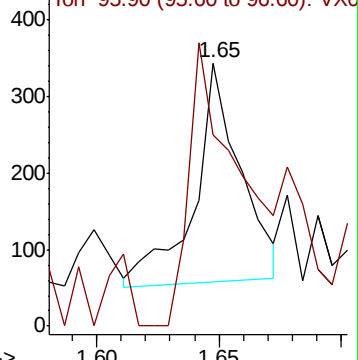
Ion Ratio Lower Upper

94 100

96 55.5 76.2 114.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0



#8

Diethyl Ether

Concen: 0.313 ug/l

RT: 2.20 min Scan# 171

Delta R.T. 0.01 min

Lab File: VX010302.D

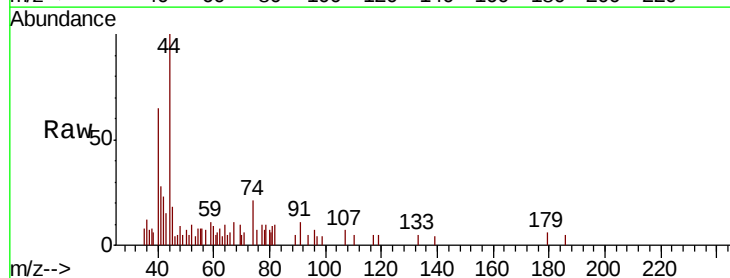
Acq: 14 Jun 2019 15:52

Tgt Ion: 74 Resp: 438

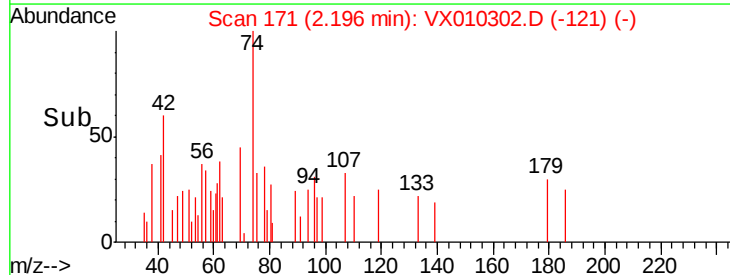
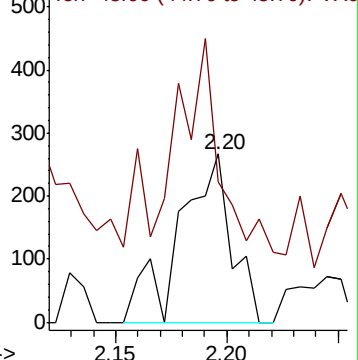
Ion Ratio Lower Upper

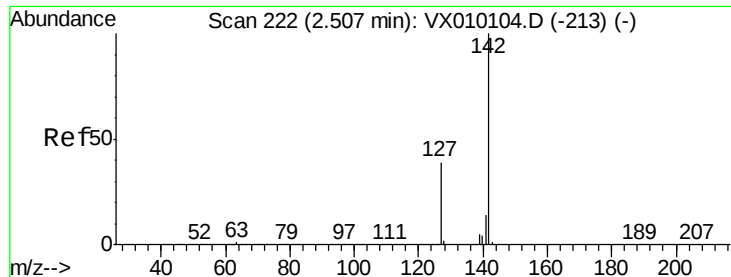
74 100

45 134.2 56.1 168.3



Abundance Ion 74.00 (73.70 to 74.70): VX0

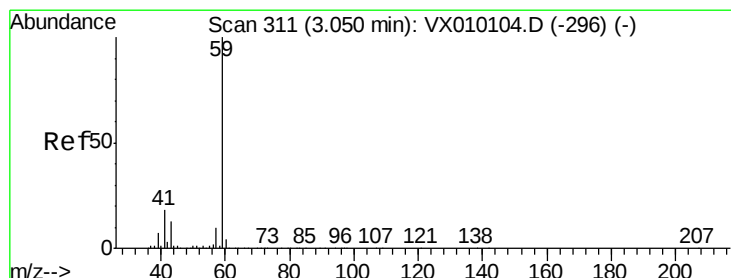
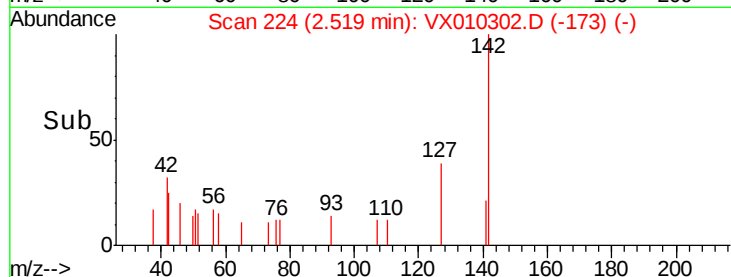
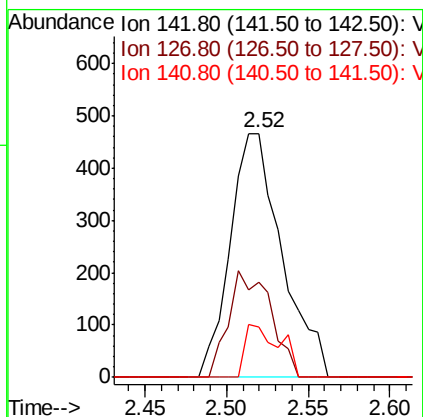
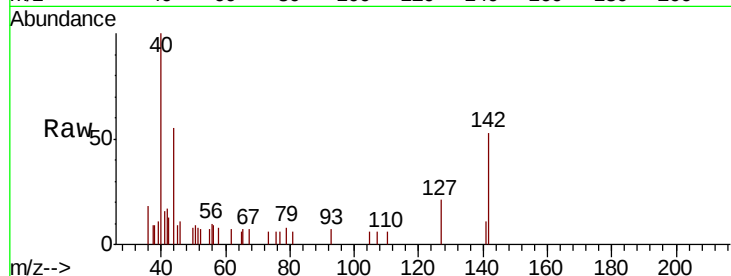




#10
Methvl Iodide
Concen: 0.238 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX010302.D
Acq: 14 Jun 2019 15:52

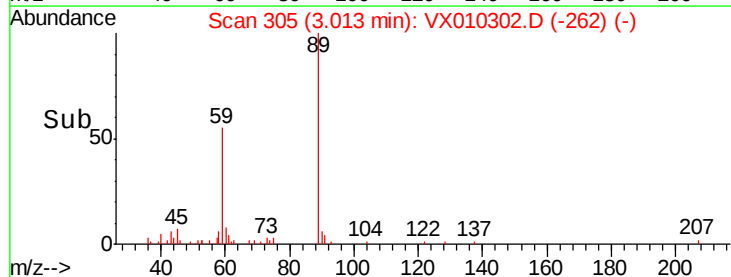
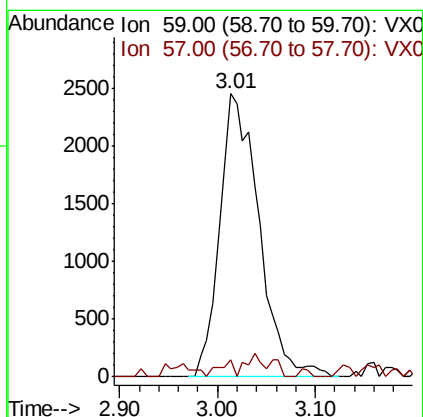
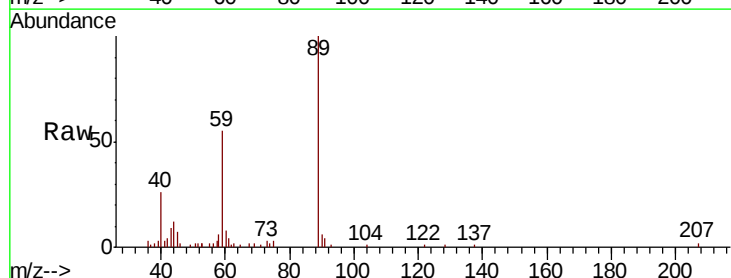
Instrument :
MSVOA_X
ClientSampleId :
LF001MW002-190610

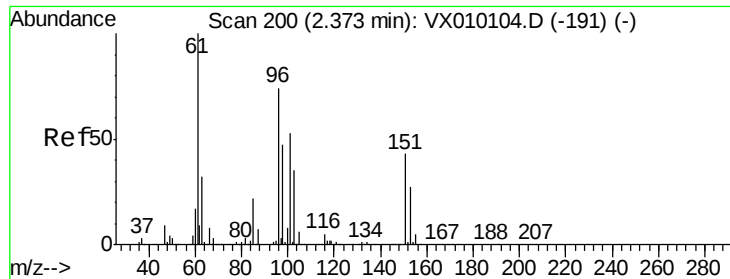
Tot Ion:142 Resp: 1030
Ion Ratio Lower Upper
142 100
127 35.5 33.0 49.4
141 14.3 11.4 17.0



#11
Tert butyl alcohol
Concen: 8.943 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.04 min
Lab File: VX010302.D
Acq: 14 Jun 2019 15:52

Tgt Ion: 59 Resp: 6795
Ion Ratio Lower Upper
59 100
57 2.1 8.2 12.2#





#12

1,1-Dichloroethene

Concen: 0.444 ug/l

RT: 2.38 min Scan# 201

Delta R.T. 0.01 min

Lab File: VX010302.D

Acq: 14 Jun 2019 15:52

Instrument :

MSVOA_X

ClientSampleId :

LF001MW002-190610

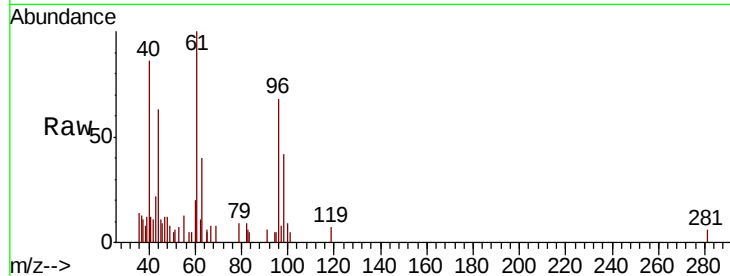
Tot Ion: 96 Resp: 1267

Ion Ratio Lower Upper

96 100

61 147.0 140.7 211.1

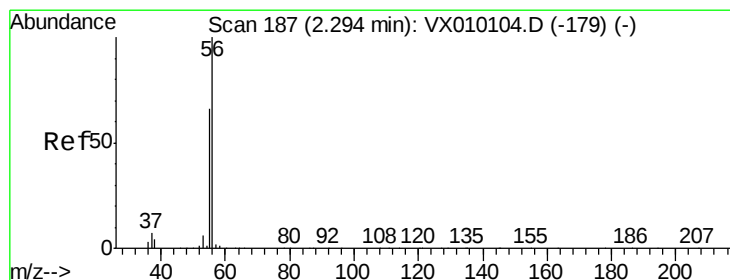
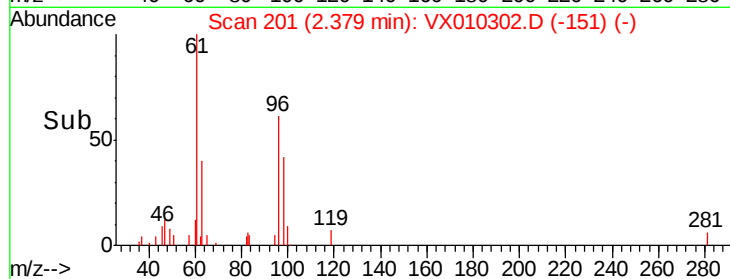
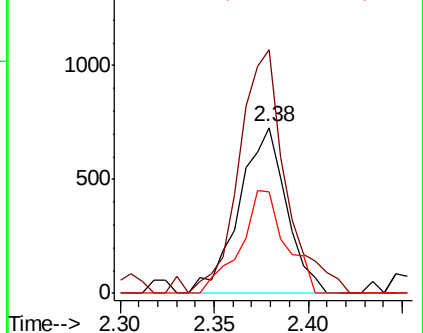
98 61.6 50.1 75.1



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



#13

Acrolein

Concen: 0.628 ug/l

RT: 2.31 min Scan# 189

Delta R.T. 0.01 min

Lab File: VX010302.D

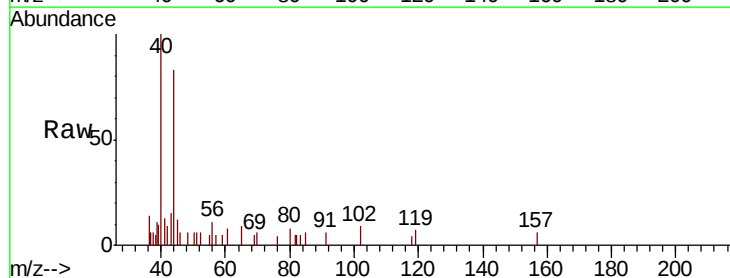
Acq: 14 Jun 2019 15:52

Tgt Ion: 56 Resp: 87

Ion Ratio Lower Upper

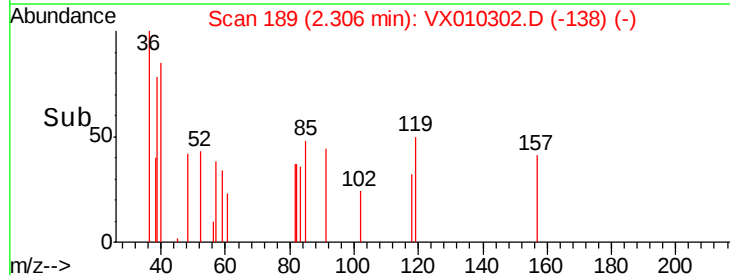
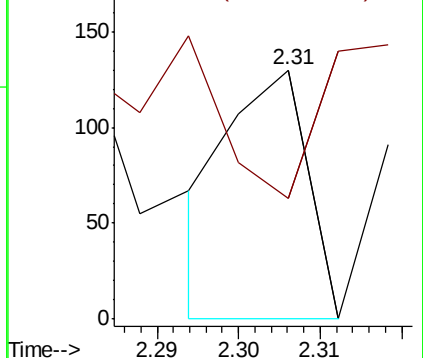
56 100

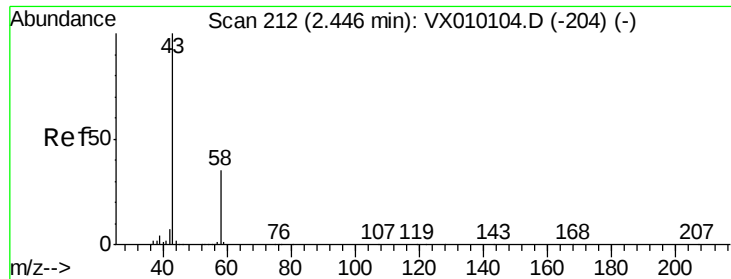
55 93.1 57.0 85.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 0.765 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX010302.D

Acq: 14 Jun 2019 15:52

Instrument :

MSVOA_X

ClientSampleId :

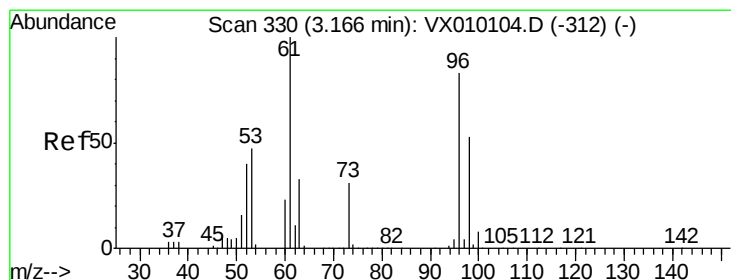
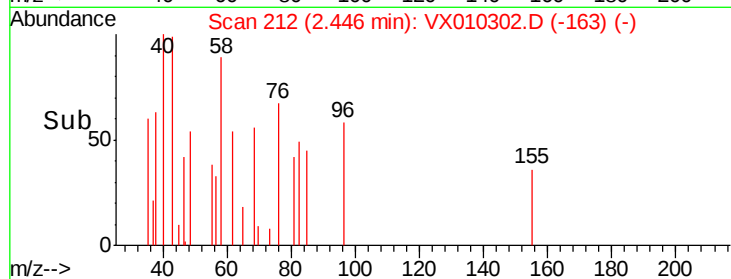
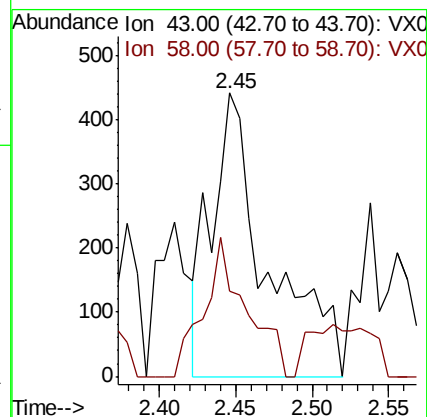
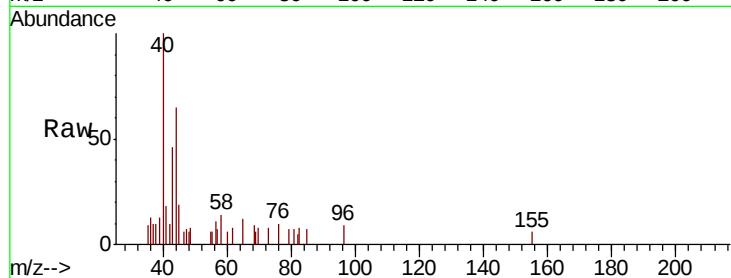
LF001MW002-190610

Tot Ion: 43 Resp: 1116

Ion Ratio Lower Upper

43 100

58 14.3 23.2 34.8#



#21

trans-1,2-Dichloroethene

Concen: 0.347 ug/l

RT: 3.17 min Scan# 330

Delta R.T. -0.00 min

Lab File: VX010302.D

Acq: 14 Jun 2019 15:52

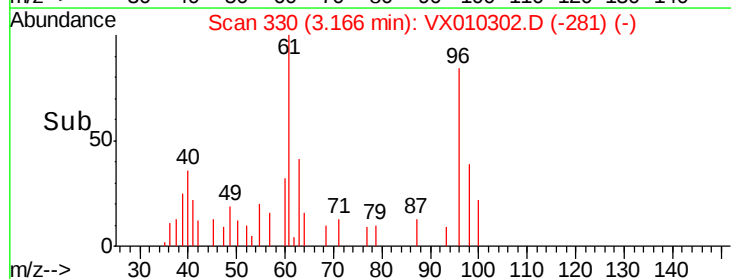
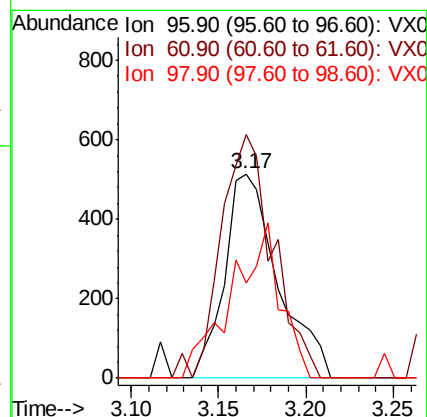
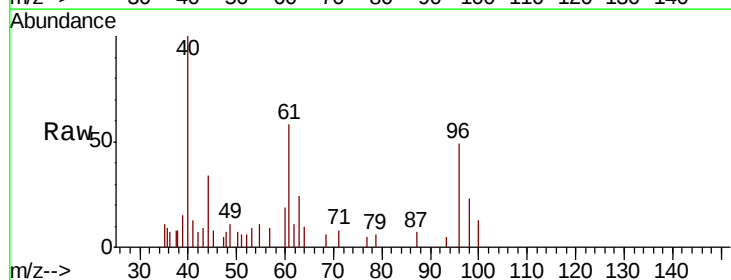
Tgt Ion: 96 Resp: 1096

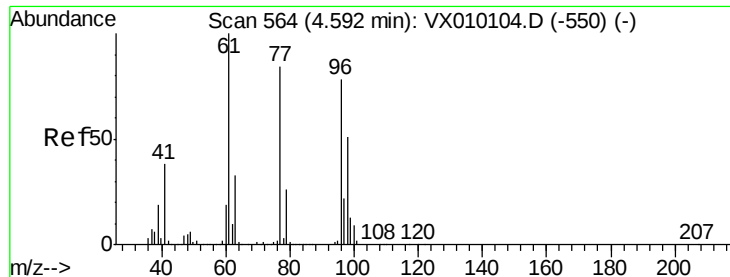
Ion Ratio Lower Upper

96 100

61 119.3 125.7 188.5#

98 46.9 49.0 73.6#



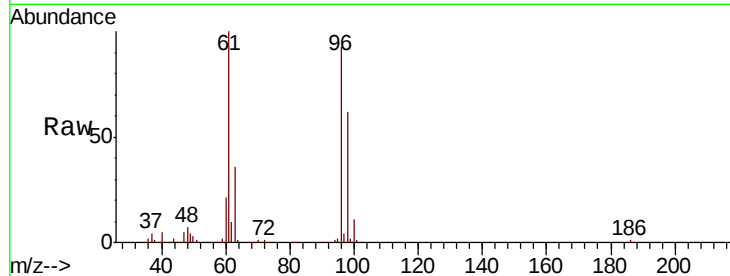


#27

cis-1,2-Dichloroethene
 Concen: 14.240 ug/l
 RT: 4.60 min Scan# 565
 Delta R.T. 0.01 min
 Lab File: VX010302.D
 Acq: 14 Jun 2019 15:52

Instrument :
 MSVOA_X
 ClientSampleId :
 LF001MW002-190610

Tot Ion	Ratio	Lower	Upper
96	100		
61	108.6	0.0	334.0
98	65.2	0.0	131.6

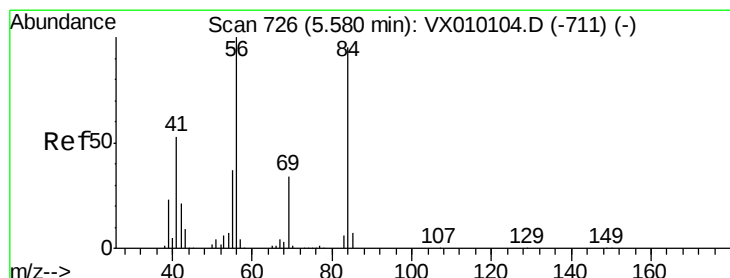
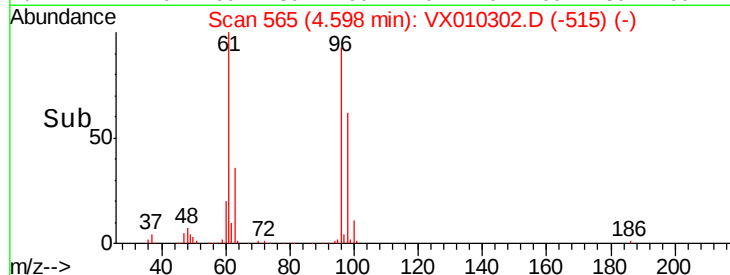
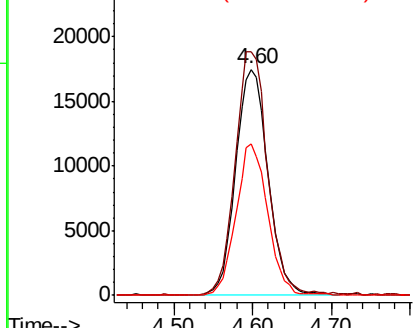


Abundance

Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

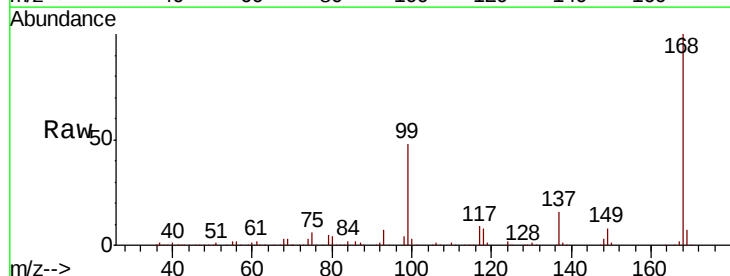
Ion 97.90 (97.60 to 98.60): VX0



#31

Cyclohexane
 Concen: 1.083 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. 0.08 min
 Lab File: VX010302.D
 Acq: 14 Jun 2019 15:52

Tgt Ion	Ratio	Lower	Upper
56	100		
69	147.3	21.6	32.4#
84	116.7	56.8	85.2#

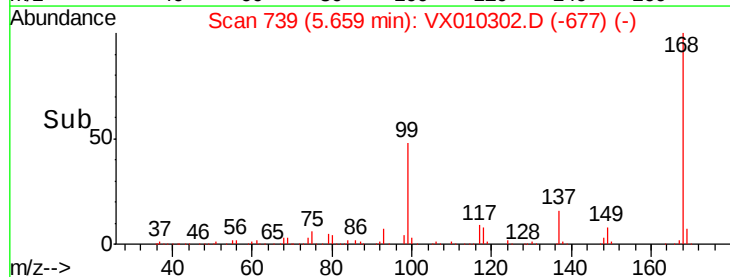
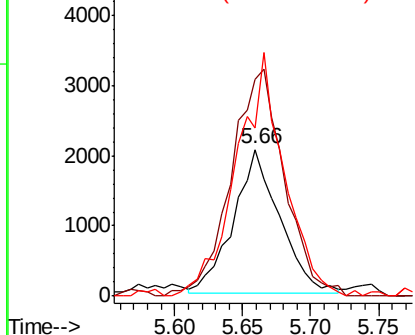


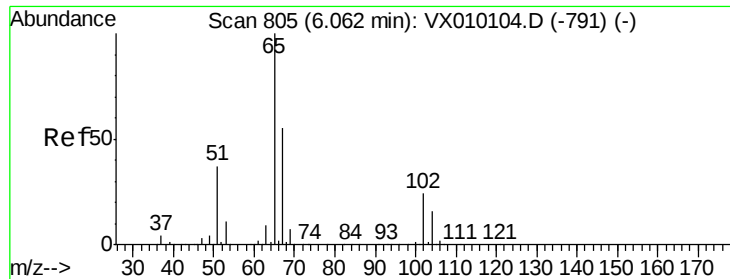
Abundance

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: 46.671 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX010302.D

Acq: 14 Jun 2019 15:52

Instrument :

MSVOA_X

ClientSampleId :

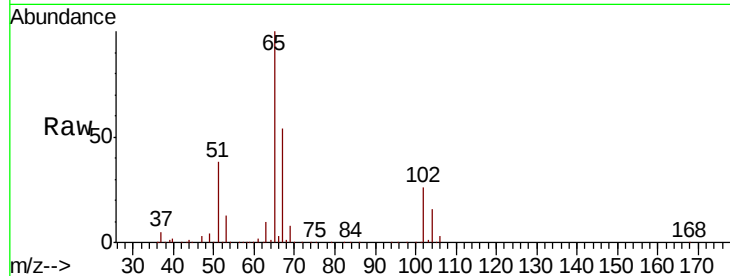
LF001MW002-190610

Tot Ion: 65 Resp: 144761

Ion Ratio Lower Upper

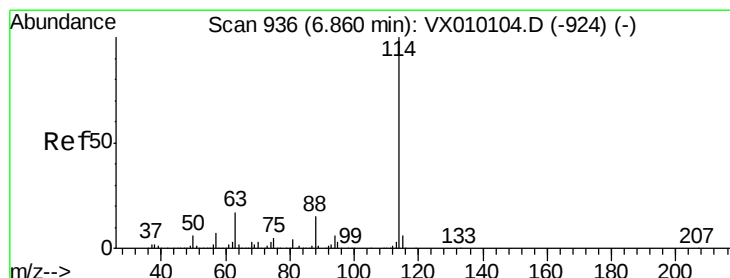
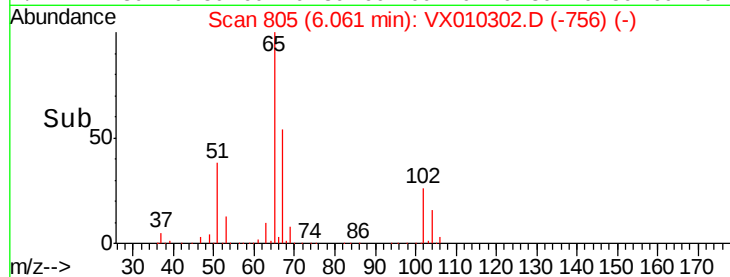
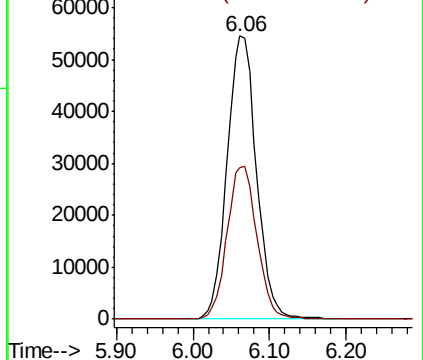
65 100

67 55.2 0.0 108.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX010302.D

Acq: 14 Jun 2019 15:52

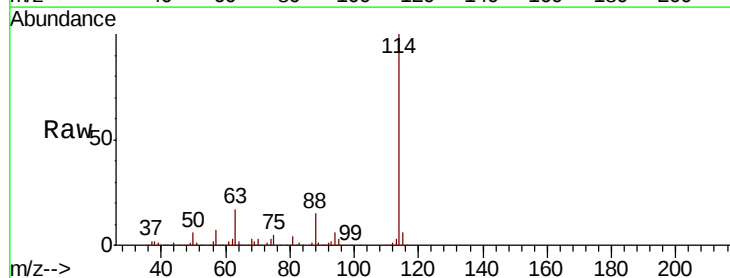
Tgt Ion: 114 Resp: 489487

Ion Ratio Lower Upper

114 100

63 16.9 0.0 47.4

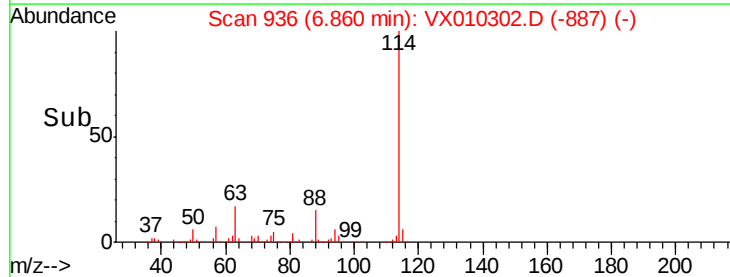
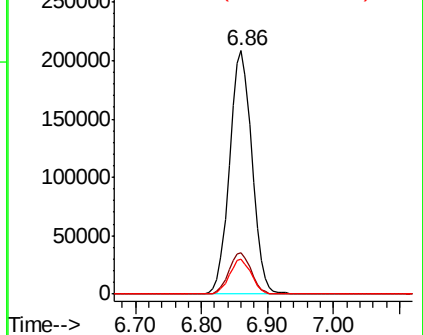
88 14.5 0.0 33.0

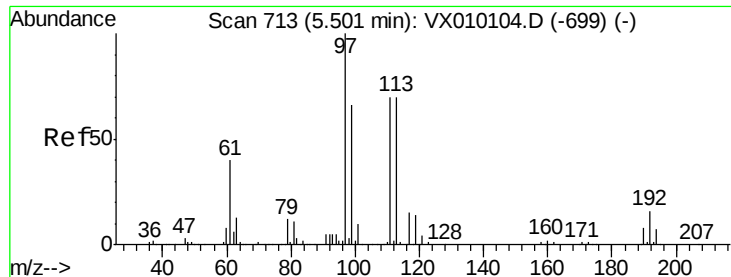


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

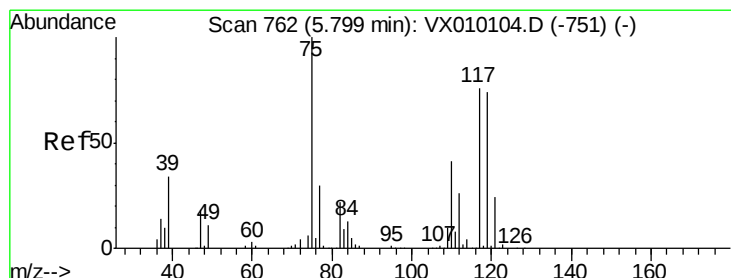
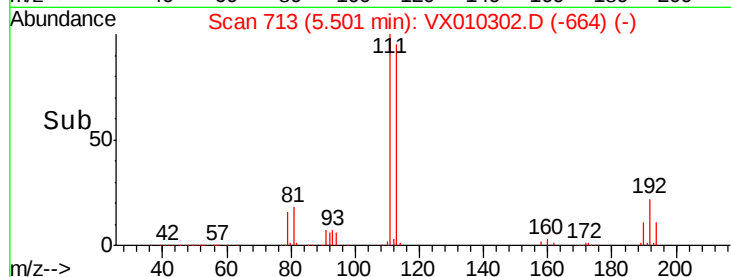
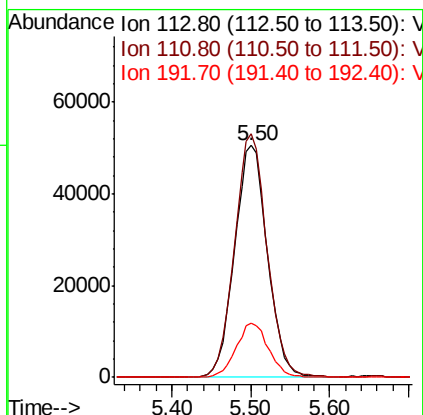
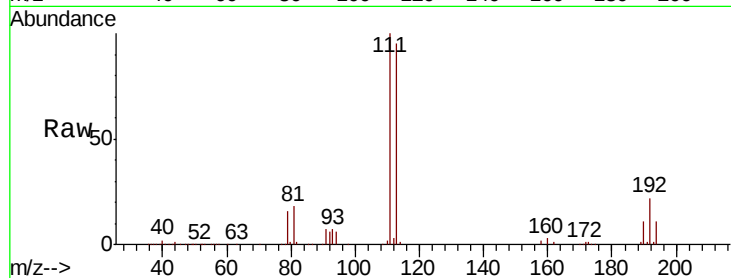




#35
Dibromofluoromethane
Concen: 48.510 ug/l
RT: 5.50 min Scan# 713
Delta R.T. -0.00 min
Lab File: VX010302.D
Acq: 14 Jun 2019 15:52

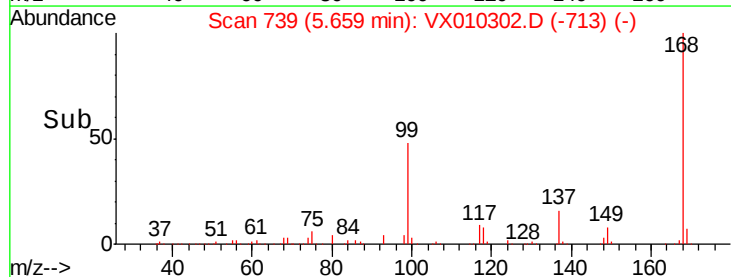
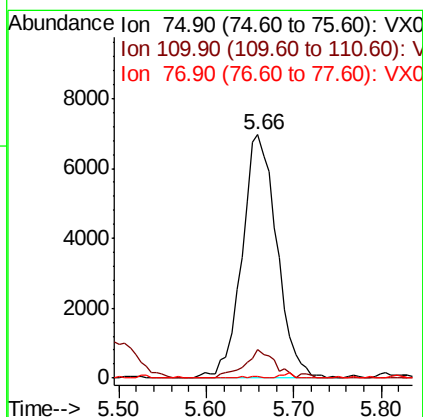
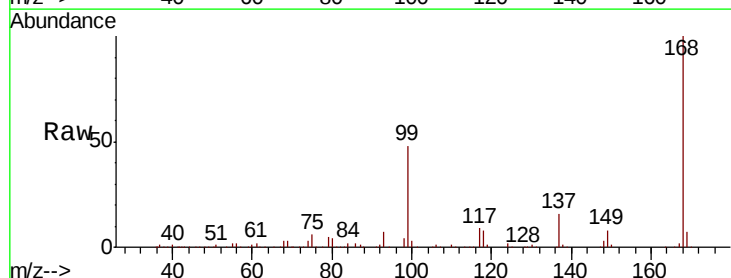
Instrument :
MSVOA_X
ClientSampleId :
LF001MW002-190610

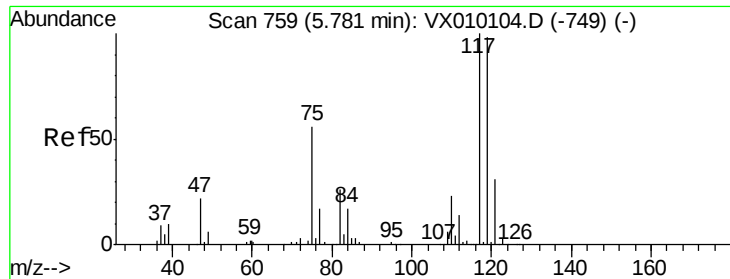
Tot Ion:113 Resp: 146464
Ion Ratio Lower Upper
113 100
111 103.7 82.2 123.2
192 22.9 17.1 25.7



#36
1,1-Dichloropropene
Concen: 4.814 ug/l
RT: 5.66 min Scan# 739
Delta R.T. -0.14 min
Lab File: VX010302.D
Acq: 14 Jun 2019 15:52

Tgt Ion: 75 Resp: 19225
Ion Ratio Lower Upper
75 100
110 10.2 16.7 50.1#
77 0.3 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 6.262 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX010302.D

Acq: 14 Jun 2019 15:52

Instrument :

MSVOA_X

ClientSampleId :

LF001MW002-190610

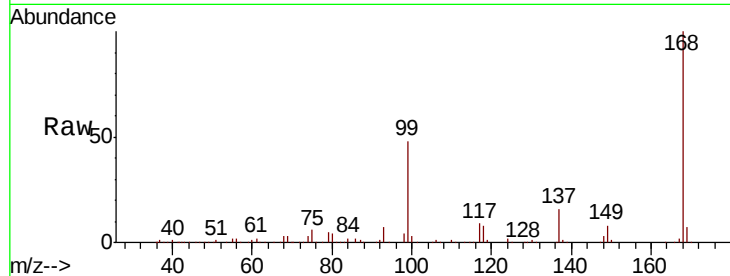
Tot Ion:117 Resp: 28306

Ion Ratio Lower Upper

117 100

119 6.5 77.3 115.9#

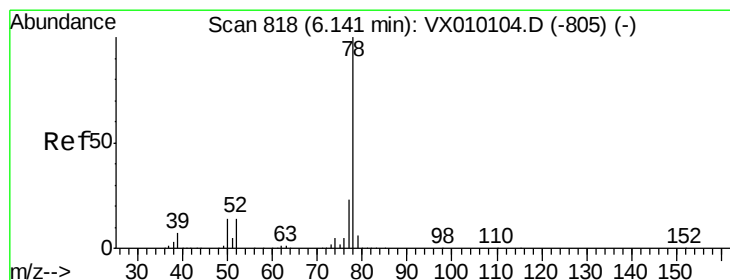
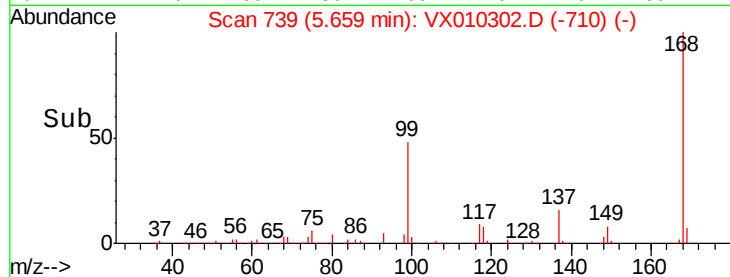
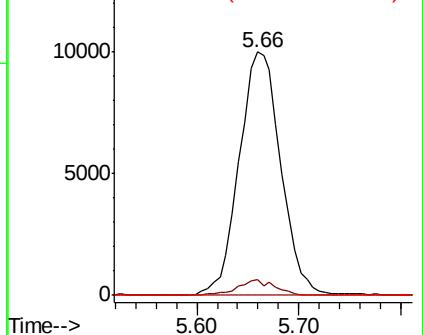
121 0.0 25.4 38.0#



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



#40

Benzene

Concen: 1.585 ug/l

RT: 6.15 min Scan# 819

Delta R.T. 0.01 min

Lab File: VX010302.D

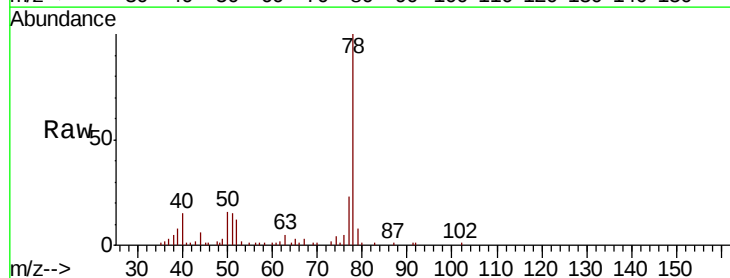
Acq: 14 Jun 2019 15:52

Tgt Ion: 78 Resp: 19573

Ion Ratio Lower Upper

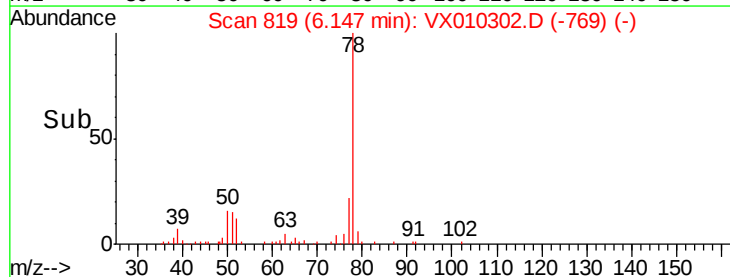
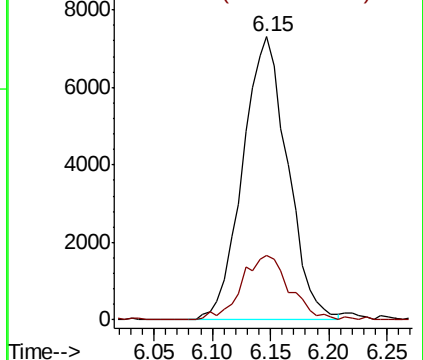
78 100

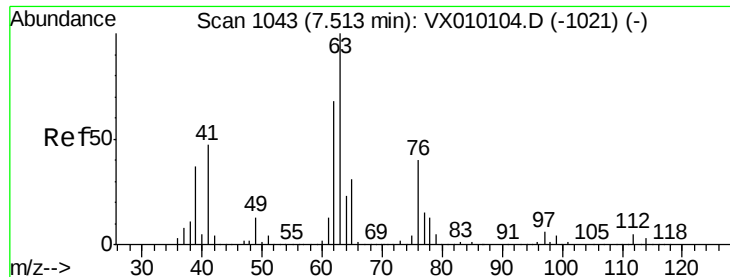
77 22.8 19.2 28.8



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0





#45

1,2-Dichloropropane

Concen: 1.200 ug/l

RT: 7.51 min Scan# 1043

Delta R.T. -0.00 min

Lab File: VX010302.D

Acq: 14 Jun 2019 15:52

Instrument :

MSVOA_X

ClientSampleId :

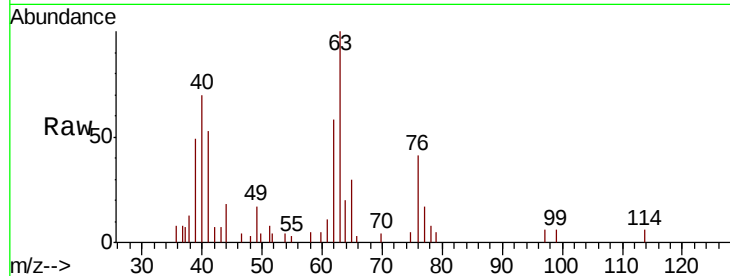
LF001MW002-190610

Tot Ion: 63 Resp: 3708

Ion Ratio Lower Upper

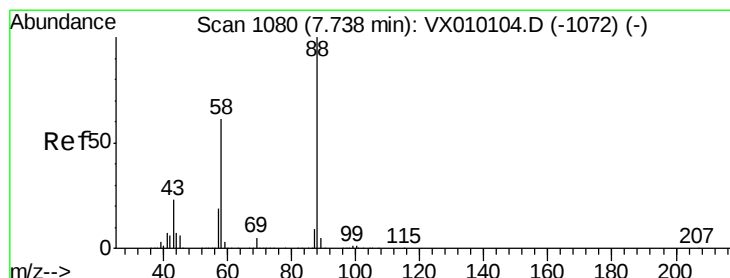
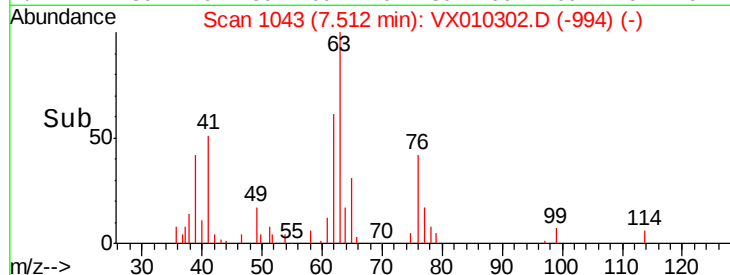
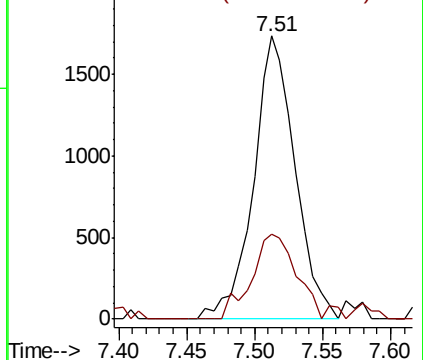
63 100

65 29.8 25.7 38.5



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 64.90 (64.60 to 65.60): VX0



#49

1,4-Dioxane

Concen: 0.572 ug/l

RT: 7.73 min Scan# 1078

Delta R.T. -0.01 min

Lab File: VX010302.D

Acq: 14 Jun 2019 15:52

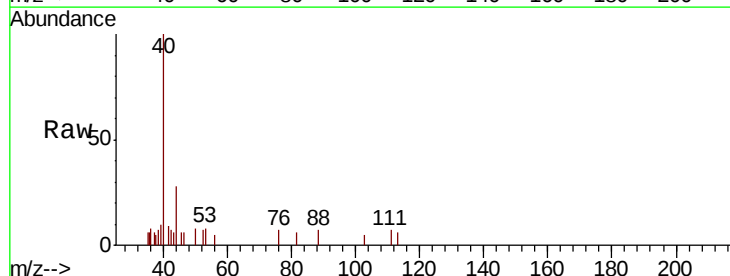
Tgt Ion: 88 Resp: 53

Ion Ratio Lower Upper

88 100

43 0.0 30.2 45.4#

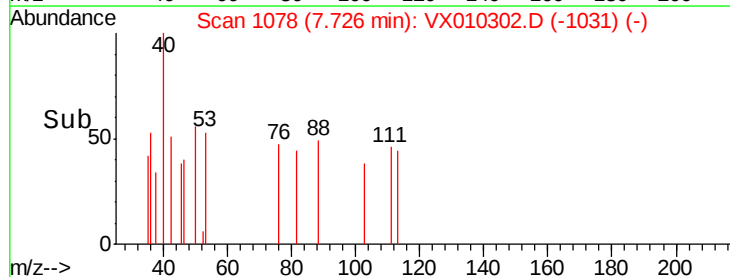
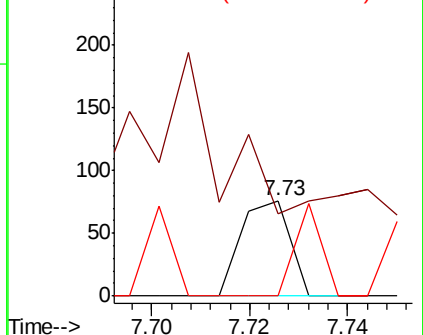
58 50.9 64.0 96.0#

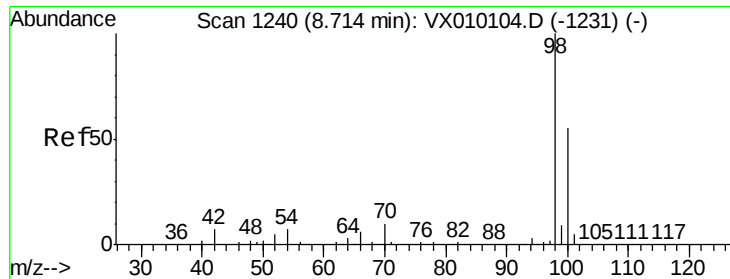


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.283 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX010302.D

Acq: 14 Jun 2019 15:52

Instrument :

MSVOA_X

ClientSampleId :

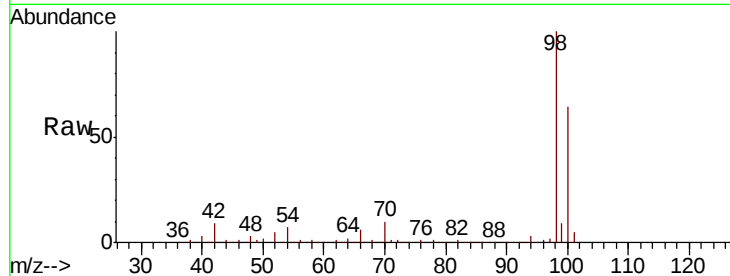
LF001MW002-190610

Tot Ion: 98 Resp: 568993

Ion Ratio Lower Upper

98 100

100 64.0 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

8.71

400000

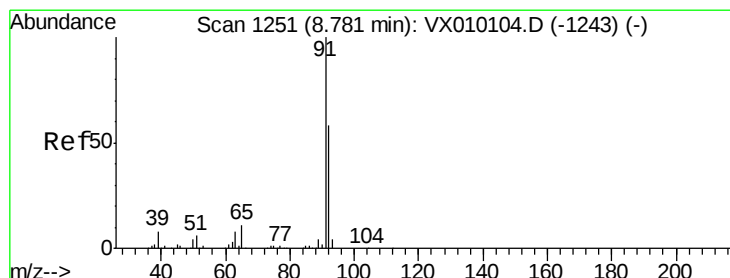
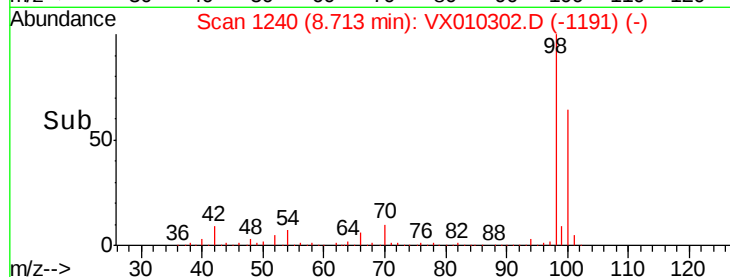
300000

200000

100000

0

Time-->



#52

Toluene

Concen: 0.252 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. 0.01 min

Lab File: VX010302.D

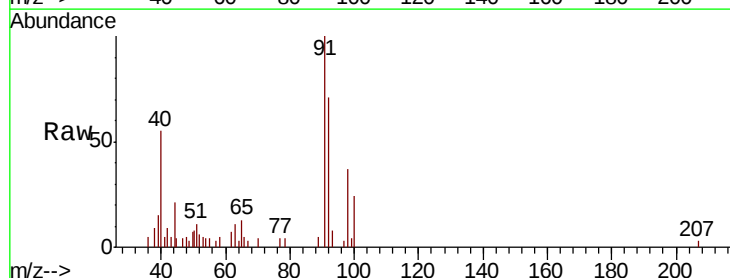
Acq: 14 Jun 2019 15:52

Tgt Ion: 92 Resp: 2048

Ion Ratio Lower Upper

92 100

91 159.4 139.9 209.9



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0

2000

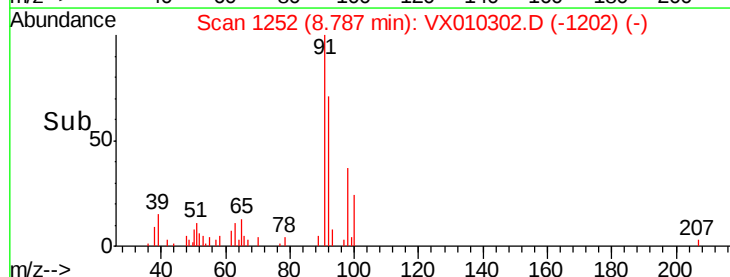
1500

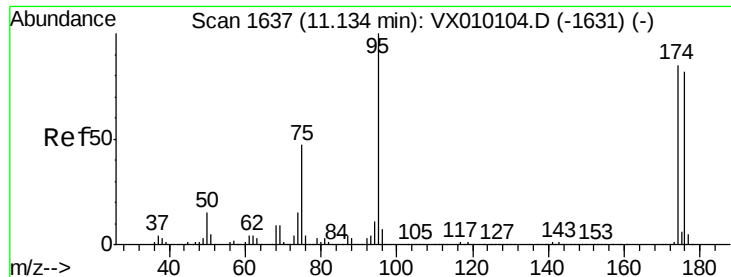
1000

500

0

Time-->





#62

4-Bromofluorobenzene

Concen: 46.578 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010302.D

Acq: 14 Jun 2019 15:52

Instrument :

MSVOA_X

ClientSampleId :

LF001MW002-190610

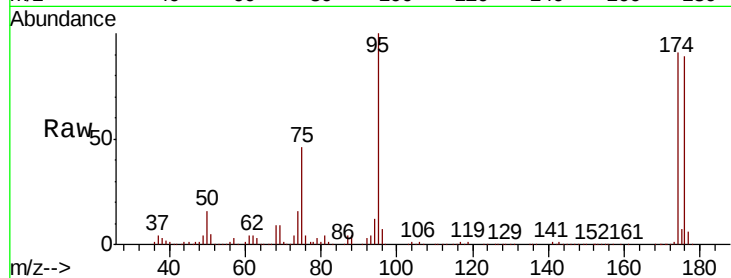
Tot Ion: 95 Resp: 196836

Ion Ratio Lower Upper

95 100

174 94.3 0.0 160.4

176 91.6 0.0 154.6



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

11.13

150000

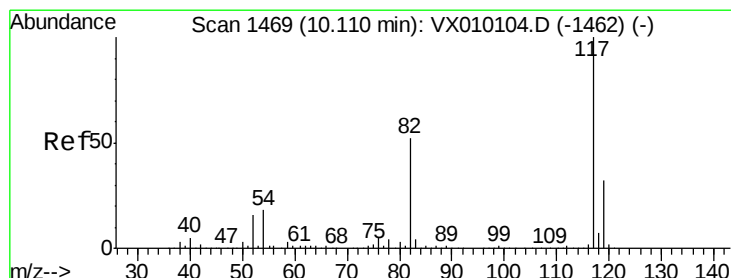
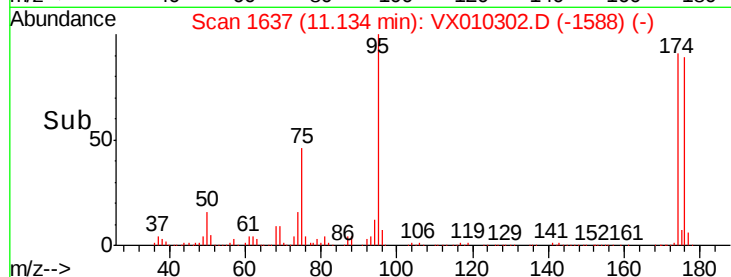
100000

50000

0

11.10 11.20

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX010302.D

Acq: 14 Jun 2019 15:52

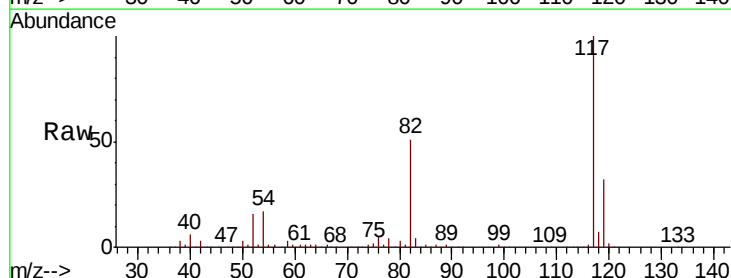
Tgt Ion: 117 Resp: 438926

Ion Ratio Lower Upper

117 100

82 51.0 49.2 73.8

119 31.9 25.2 37.8



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V

10.11

400000

300000

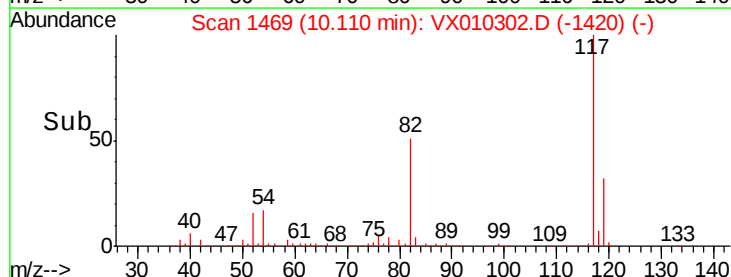
200000

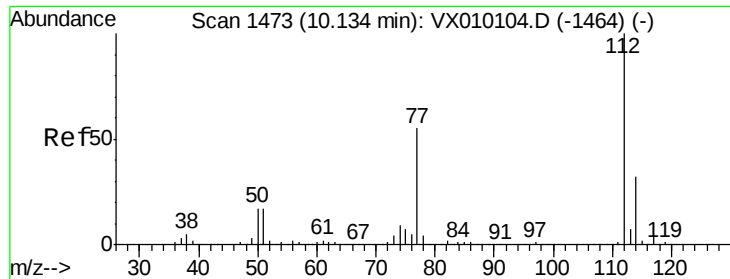
100000

0

10.00 10.10 10.20 10.30

Time-->

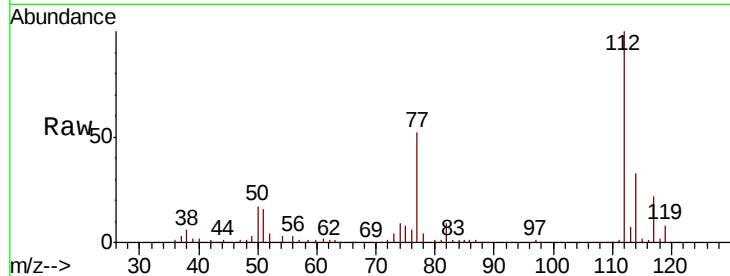




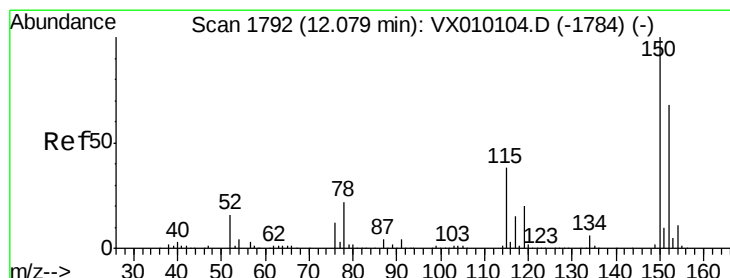
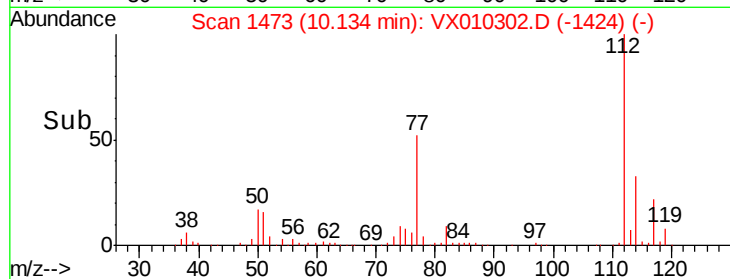
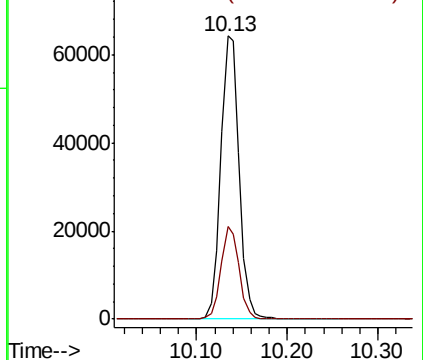
#65
Chlorobenzene
Concen: 10.084 ug/l
RT: 10.13 min Scan# 1473
Delta R.T. -0.00 min
Lab File: VX010302.D
Acq: 14 Jun 2019 15:52

Instrument :
MSVOA_X
ClientSampleId :
LF001MW002-190610

Tot Ion:112 Resp: 91355
Ion Ratio Lower Upper
112 100
114 32.9 25.8 38.8

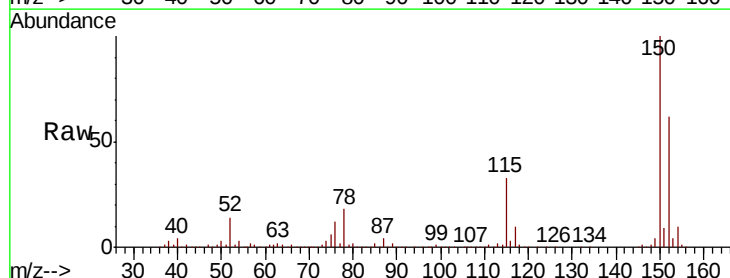


Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): V

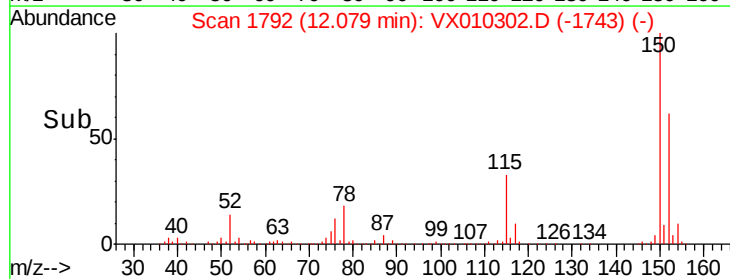
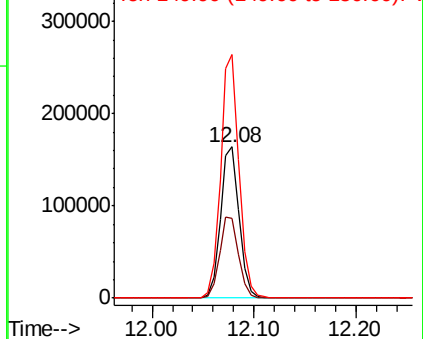


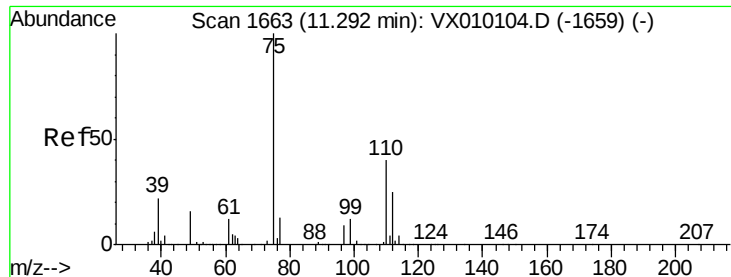
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX010302.D
Acq: 14 Jun 2019 15:52

Tgt Ion:152 Resp: 208379
Ion Ratio Lower Upper
152 100
115 54.6 41.4 124.2
150 159.3 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

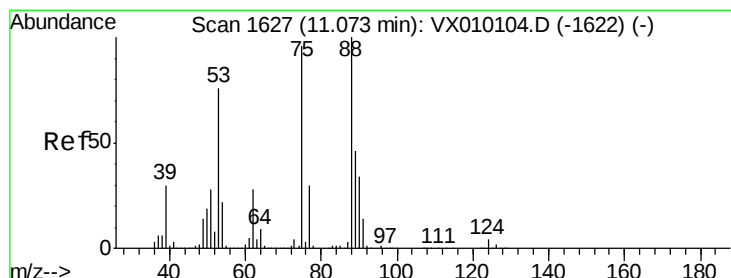
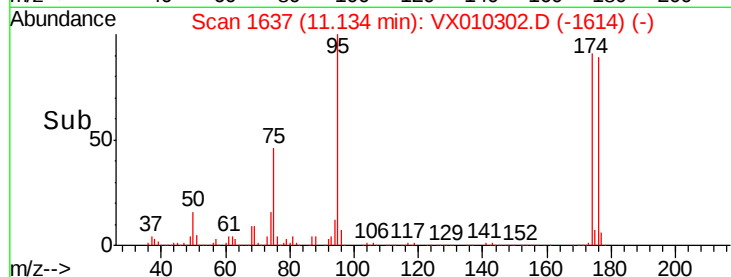
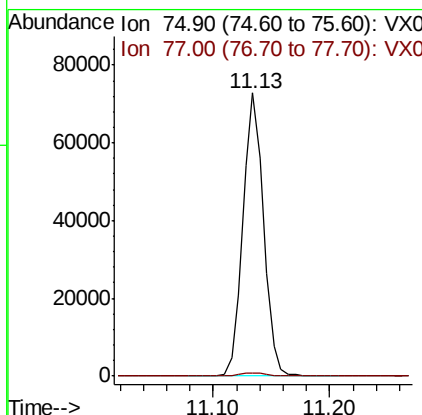
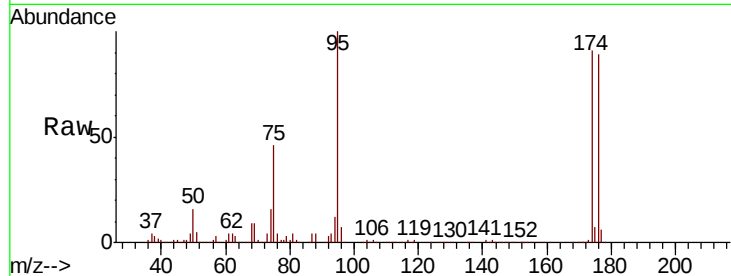




#76
 1,2,3-Trichloropropane
 Concen: 21.666 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX010302.D
 Acq: 14 Jun 2019 15:52

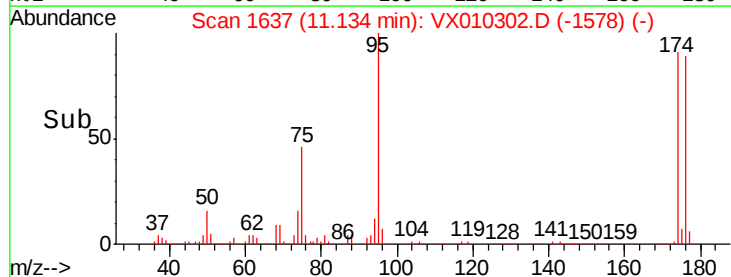
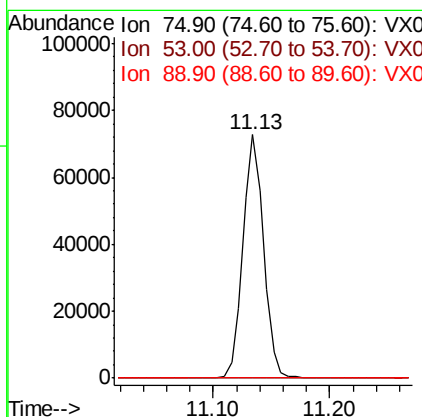
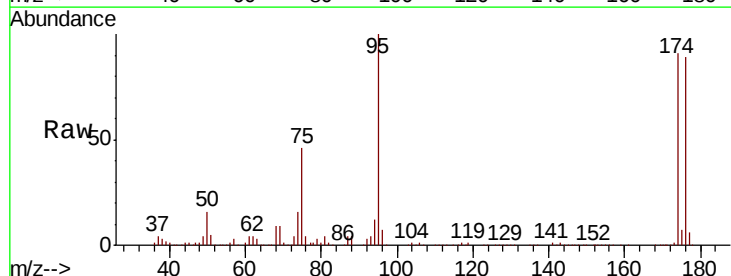
Instrument :
 MSVOA_X
 ClientSampleId :
 LF001MW002-190610

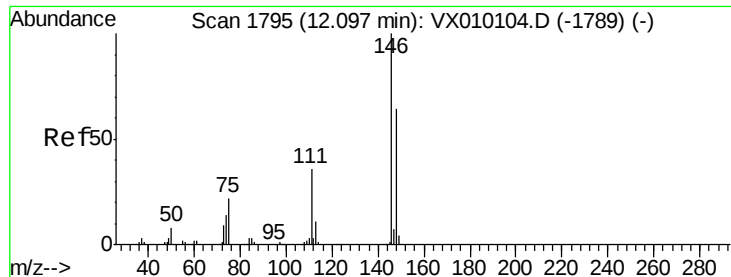
Tot Ion: 75 Resp: 90302
 Ion Ratio Lower Upper
 75 100
 77 1.4 22.1 66.1#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 47.869 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX010302.D
 Acq: 14 Jun 2019 15:52

Tgt Ion: 75 Resp: 90302
 Ion Ratio Lower Upper
 75 100
 53 0.1 79.8 119.6#
 89 0.0 34.2 51.4#

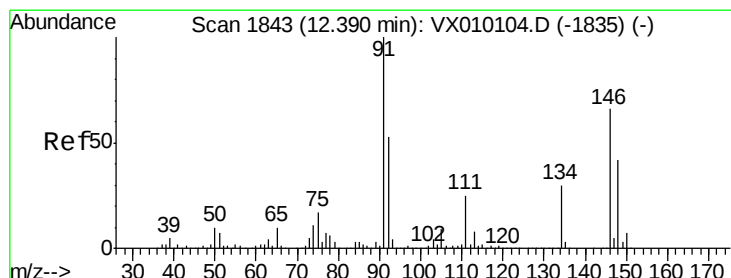
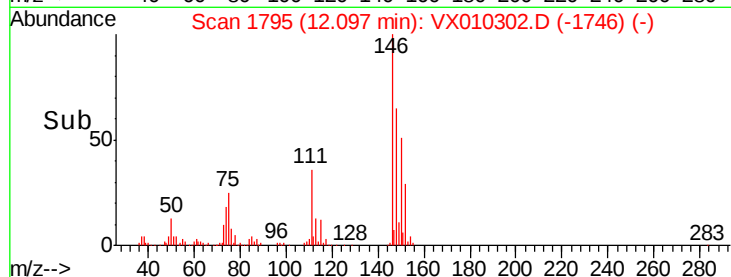
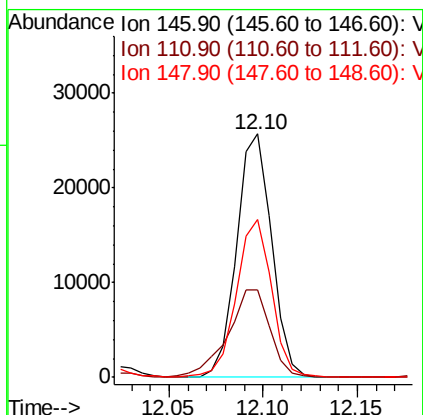
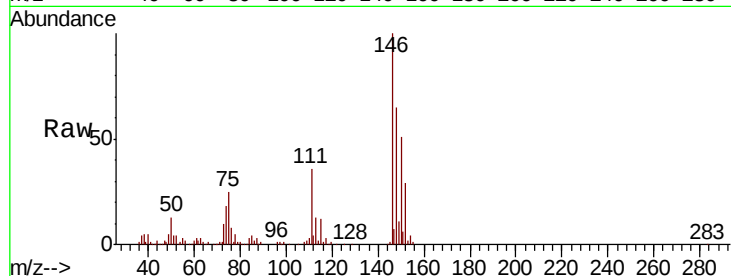




#88
 1,4-Dichlorobenzene
 Concen: 4.666 ug/l
 RT: 12.10 min Scan# 1795
 Delta R.T. -0.00 min
 Lab File: VX010302.D
 Acq: 14 Jun 2019 15:52

Instrument :
 MSVOA_X
 ClientSampleId :
 LF001MW002-190610

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.4	20.0	59.9
148	65.2	32.3	96.9



#91
 1,2-Dichlorobenzene
 Concen: 2.139 ug/l
 RT: 12.39 min Scan# 1843
 Delta R.T. -0.00 min
 Lab File: VX010302.D
 Acq: 14 Jun 2019 15:52

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.9	21.1	63.1
148	62.7	32.3	96.8

