

Data Path : Y:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060418\
 Data File : VX002270.D
 Acq On : 04 Jun 2018 19:40
 Operator : JC/MD
 Sample : J3234-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LF6-0058

Quant Time: Jun 05 05:01:24 2018
 Quant Method : Y:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X060418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 05 03:22:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	264049	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	378152	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	347468	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	195701	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	177328	46.74	ug/l	0.00
Spiked Amount			Recovery	=	93.48%	
35) Dibromofluoromethane	5.51	113	133573	44.92	ug/l	0.00
Spiked Amount			Recovery	=	89.84%	
50) Toluene-d8	8.72	98	544972	47.81	ug/l	0.00
Spiked Amount			Recovery	=	95.62%	
62) 4-Bromofluorobenzene	11.14	95	191462	43.56	ug/l	0.00
Spiked Amount			Recovery	=	87.12%	

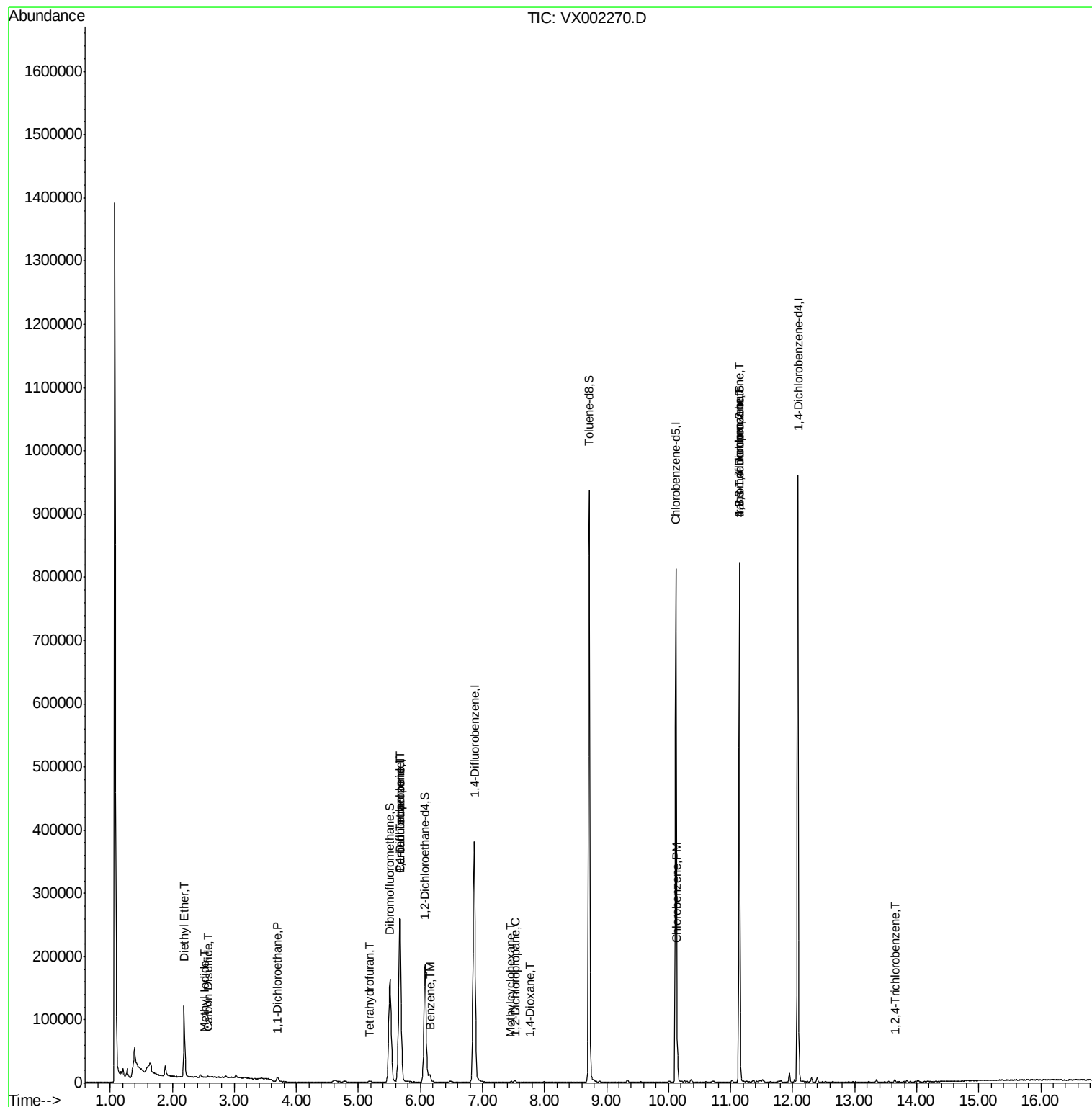
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	636	Below Cal		89
5) Bromomethane	1.64	94	1331	Below Cal		81
8) Diethyl Ether	2.19	74	36707	18.07	ug/l	99
10) Methyl Iodide	2.51	142	1373	0.34	ug/l	# 87
11) Tert butyl alcohol	3.09	59	1954	Below Cal		# 73
13) Acrolein	2.29	56	176	Below Cal		# 19
15) Acrylonitrile	3.17	53	395	Below Cal		# 28
16) Acetone	2.45	43	4789	Below Cal		99
17) Carbon Disulfide	2.57	76	1674	0.23	ug/l	# 92
18) Methyl Acetate	2.79	43	222	Below Cal		# 55
19) Methyl tert-butyl Ether	3.22	73	330	Below Cal		# 34
20) Methylene Chloride	2.86	84	1046	Below Cal		# 73
22) Diisopropyl ether	3.89	45	77	Below Cal		# 34
24) 1,1-Dichloroethane	3.70	63	6433	1.07	ug/l	98
28) Bromochloromethane	5.02	49	26	Below Cal		# 13
29) Tetrahydrofuran	5.18	42	1894	1.13	ug/l	# 85
36) 1,1-Dichloropropene	5.67	75	18966	4.77	ug/l	# 50
38) Carbon Tetrachloride	5.67	117	24871	5.98	ug/l	# 15
39) Methylcyclohexane	7.46	83	419	0.35	ug/l	# 78
40) Benzene	6.15	78	12713	1.04	ug/l	94
45) 1,2-Dichloropropane	7.52	63	1122	0.34	ug/l	98
49) 1,4-Dioxane	7.76	88	322	4.22	ug/l	# 54
65) Chlorobenzene	10.14	112	14597	1.69	ug/l	94
76) 1,2,3-Trichloropropane	11.14	75	102555	23.88	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	102555	83.72	ug/l	# 6
93) 1,2,4-Trichlorobenzene	13.65	180	1045	0.21	ug/l	93

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

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Sample : J3234-06
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Instrument :
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Quant Time: Jun 05 05:01:24 2018
Quant Method : Y:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X060418W.M
Quant Title : SW846 8260
QLast Update : Tue Jun 05 03:22:35 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX002270.D

Acq: 04 Jun 2018 19:40

Instrument :

MSVOA_X

ClientSampleId :

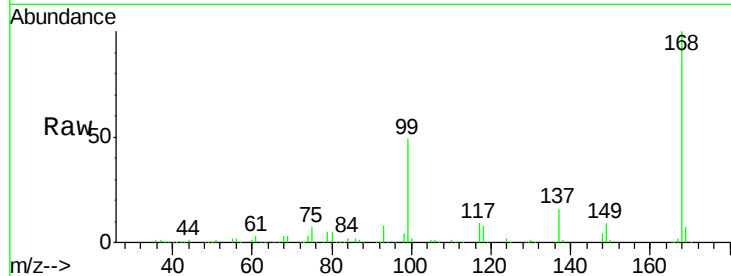
LF6-0058

Tot Ion:168 Resp: 264049

Ion Ratio Lower Upper

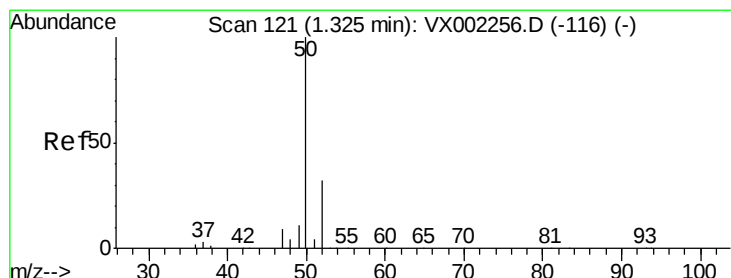
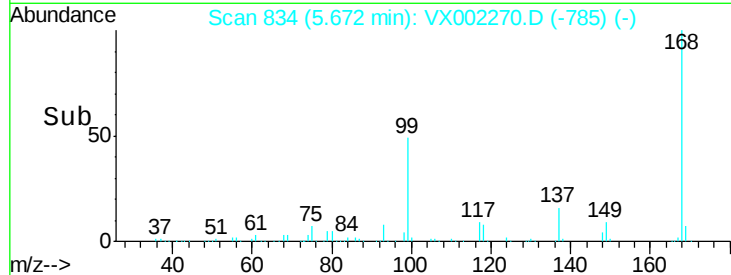
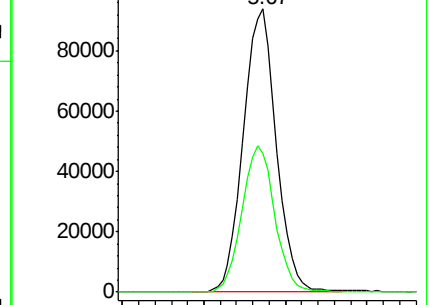
168 100

99 49.1 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX002270.D

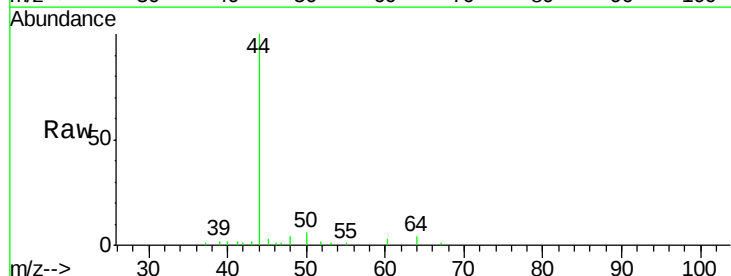
Acq: 04 Jun 2018 19:40

Tgt Ion: 50 Resp: 636

Ion Ratio Lower Upper

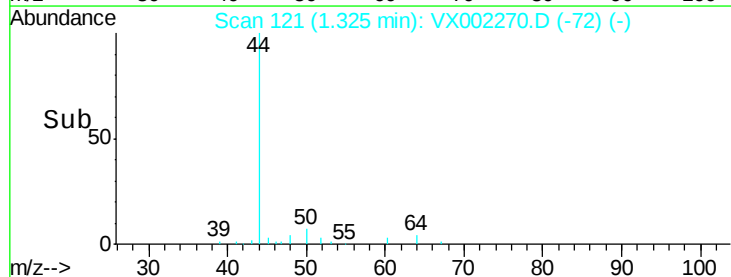
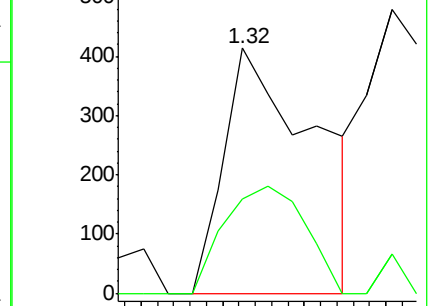
50 100

52 38.2 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 173

Delta R.T. 0.01 min

Lab File: VX002270.D

Acq: 04 Jun 2018 19:40

Instrument :

MSVOA_X

ClientSampled :

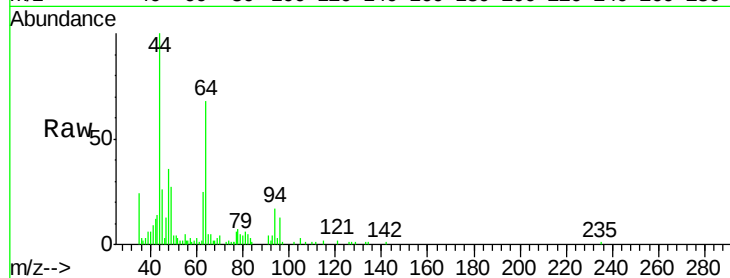
LF6-0058

Tot Ion: 94 Resp: 1331

Ion Ratio Lower Upper

94 100

96 75.3 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

800

600

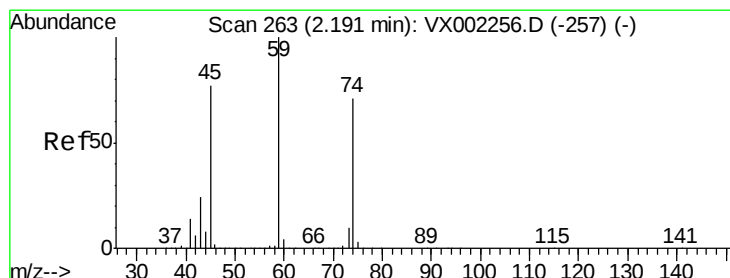
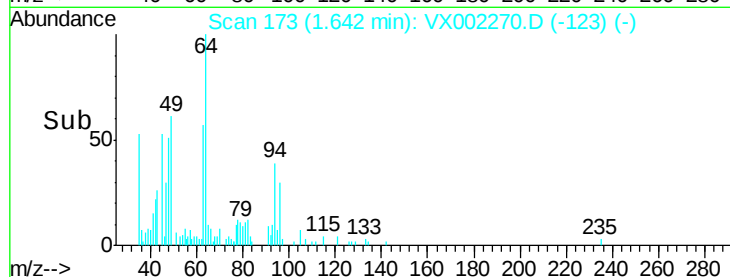
400

200

0

1.60 1.65 1.70

Time-->



#8

Diethyl Ether

Concen: 18.07 ug/l

RT: 2.19 min Scan# 263

Delta R.T. 0.00 min

Lab File: VX002270.D

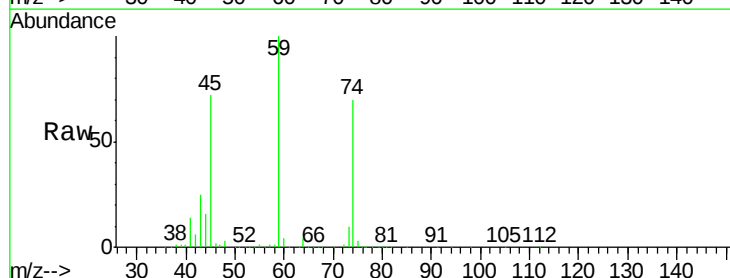
Acq: 04 Jun 2018 19:40

Tgt Ion: 74 Resp: 36707

Ion Ratio Lower Upper

74 100

45 104.9 53.1 159.4



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

30000

25000

20000

15000

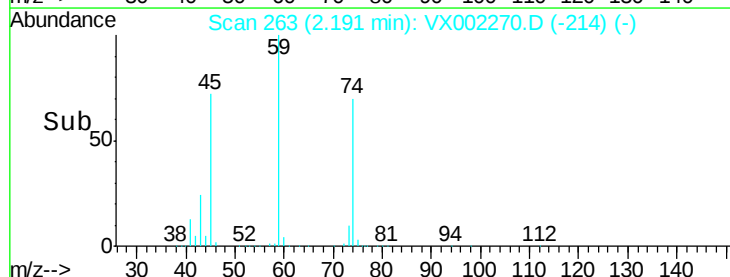
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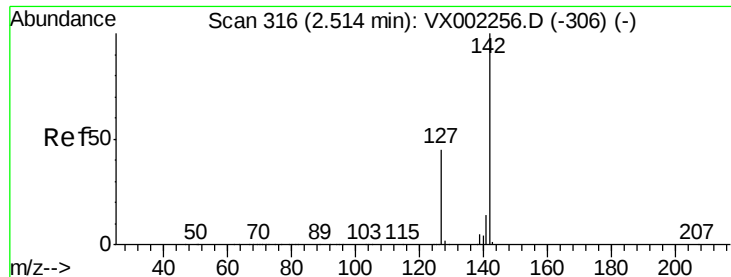
5000

0

2.10 2.15 2.20 2.25 2.30

Time-->

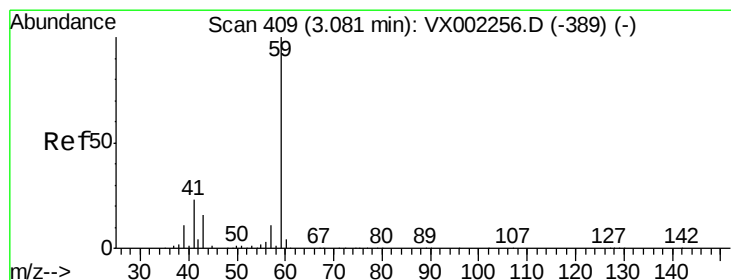
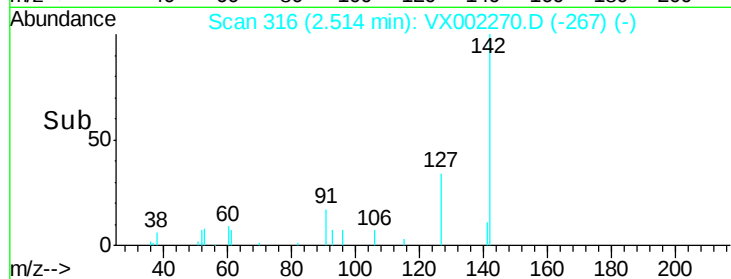
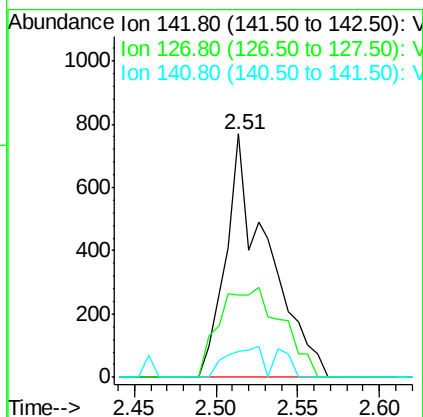
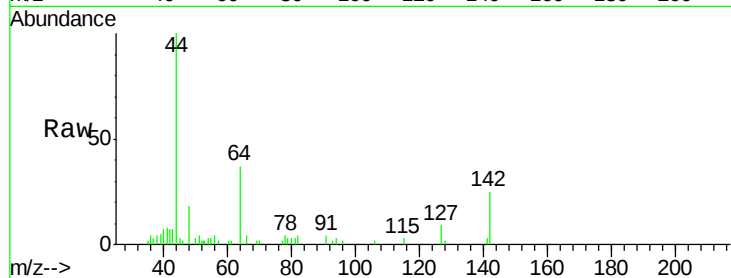




#10
Methvl Iodide
Concen: 0.34 ua/l
RT: 2.51 min Scan# 316
Delta R.T. -0.00 min
Lab File: VX002270.D
Acq: 04 Jun 2018 19:40

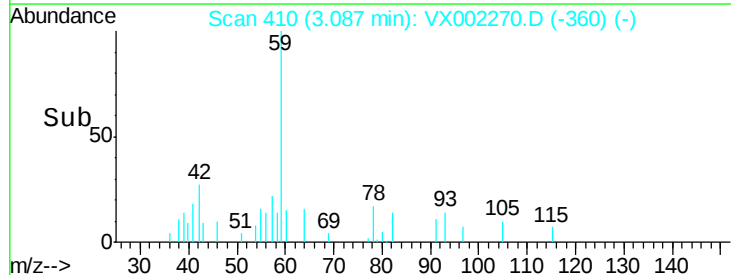
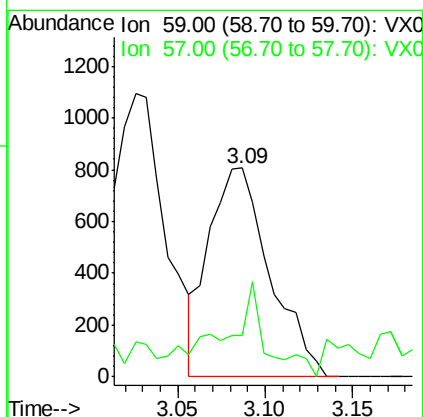
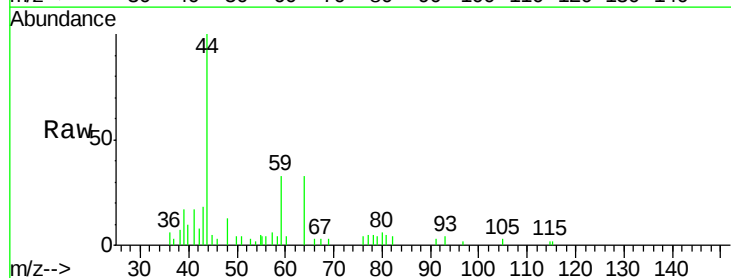
Instrument :
MSVOA_X
ClientSampled :
LF6-0058

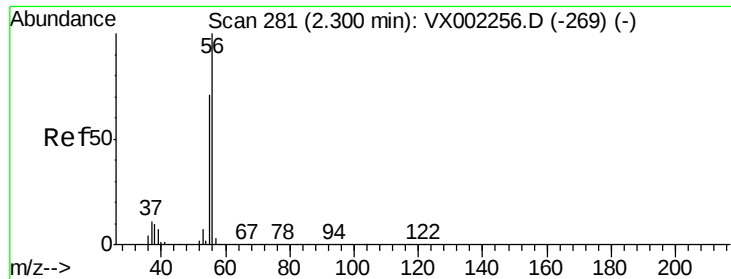
Tot Ion:142 Resp: 1373
Ion Ratio Lower Upper
142 100
127 55.1 36.6 55.0#
141 10.4 11.3 16.9#



#11
Tert butyl alcohol
Concen: Below Cal
RT: 3.09 min Scan# 410
Delta R.T. 0.01 min
Lab File: VX002270.D
Acq: 04 Jun 2018 19:40

Tgt Ion: 59 Resp: 1954
Ion Ratio Lower Upper
59 100
57 20.3 8.2 12.2#





#13

Acrolein

Concen: Below Cal

RT: 2.29 min Scan# 280

Delta R.T. -0.01 min

Lab File: VX002270.D

Acq: 04 Jun 2018 19:40

Instrument :

MSVOA_X

ClientSampled :

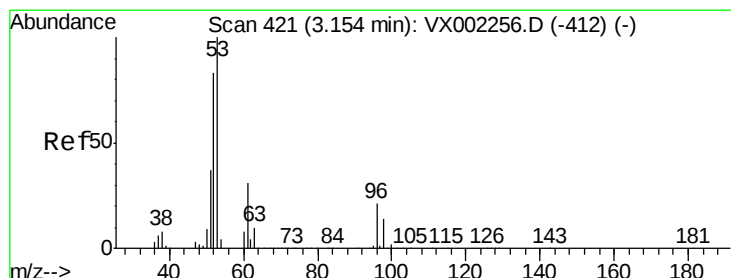
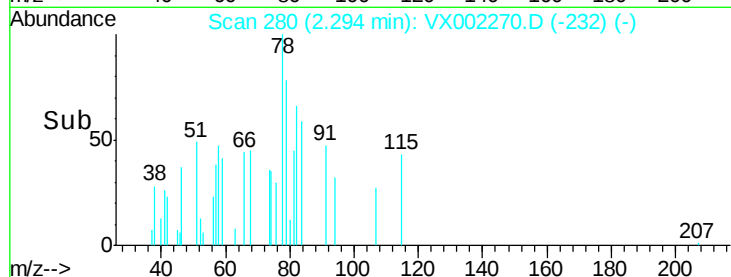
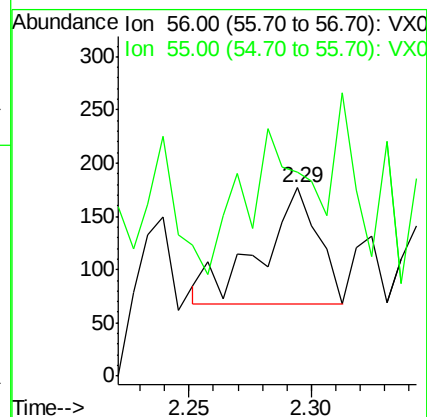
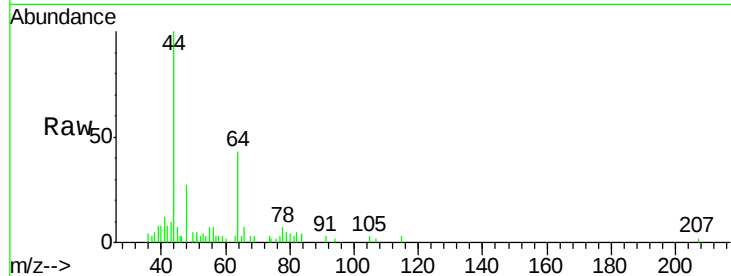
LF6-0058

Tot Ion: 56 Resp: 176

Ion Ratio Lower Upper

56 100

55 138.6 57.0 85.4#



#15

Acrylonitrile

Concen: Below Cal

RT: 3.17 min Scan# 423

Delta R.T. 0.01 min

Lab File: VX002270.D

Acq: 04 Jun 2018 19:40

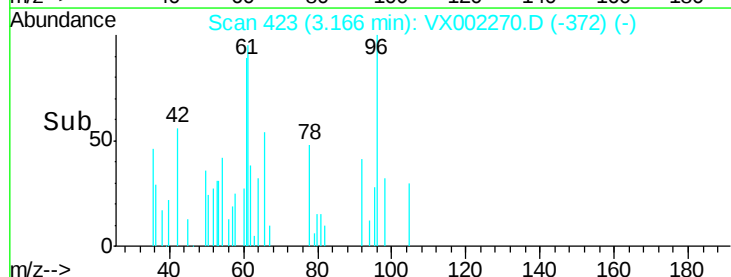
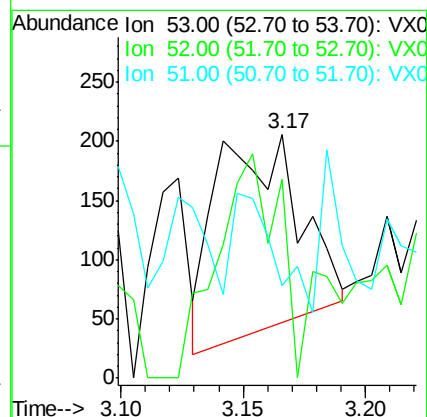
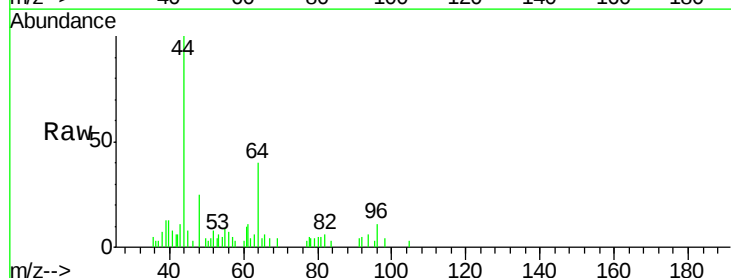
Tgt Ion: 53 Resp: 395

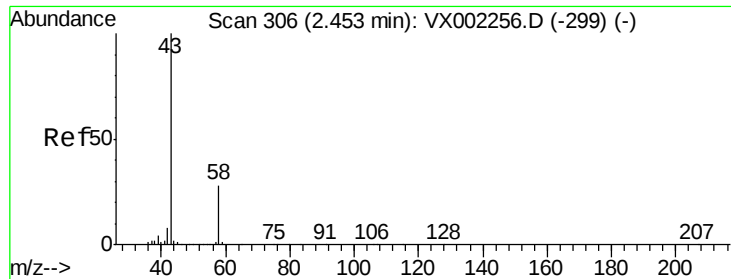
Ion Ratio Lower Upper

53 100

52 0.0 66.7 100.1#

51 22.0 29.9 44.9#





#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 306

Delta R.T. 0.00 min

Lab File: VX002270.D

Acq: 04 Jun 2018 19:40

Instrument :

MSVOA_X

ClientSampled :

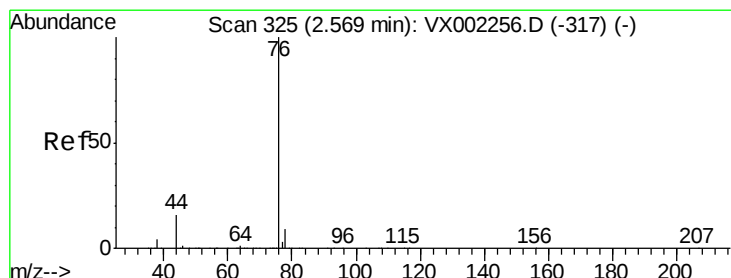
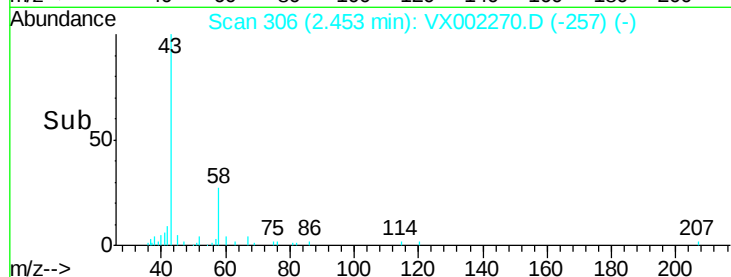
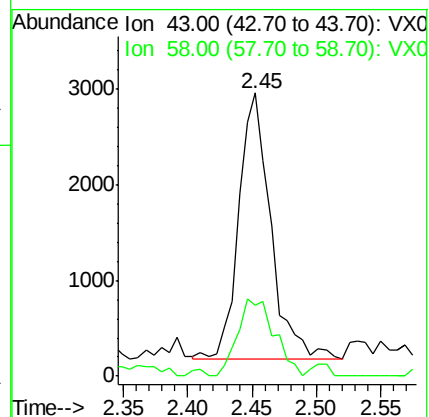
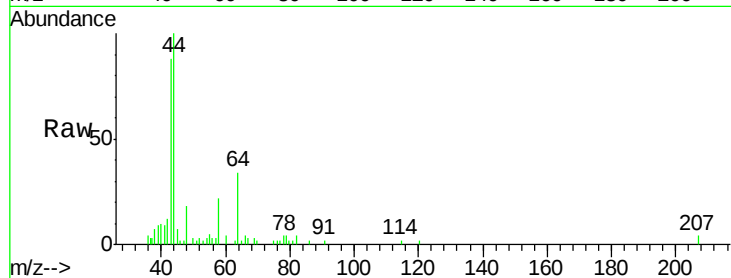
LF6-0058

Tot Ion: 43 Resp: 4789

Ion Ratio Lower Upper

43 100

58 26.9 22.1 33.1



#17

Carbon Disulfide

Concen: 0.23 ug/l

RT: 2.57 min Scan# 325

Delta R.T. -0.00 min

Lab File: VX002270.D

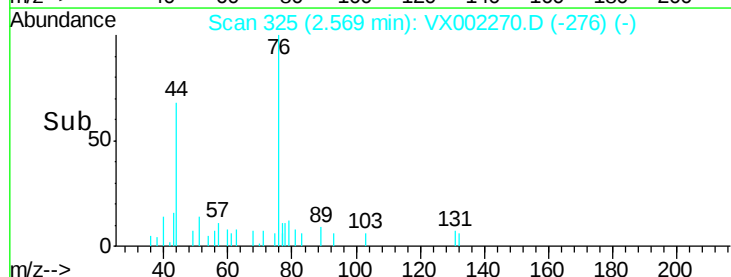
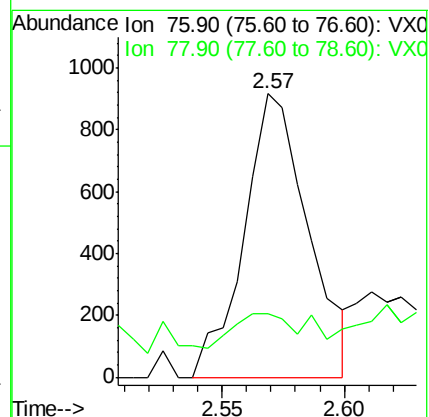
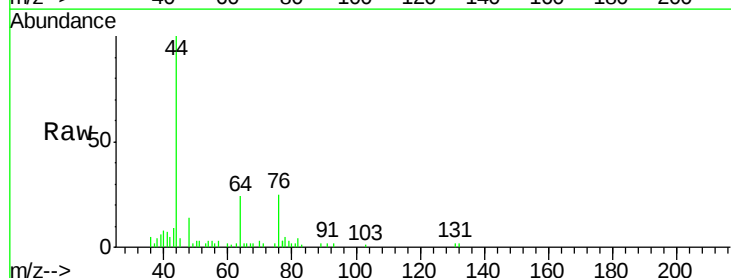
Acq: 04 Jun 2018 19:40

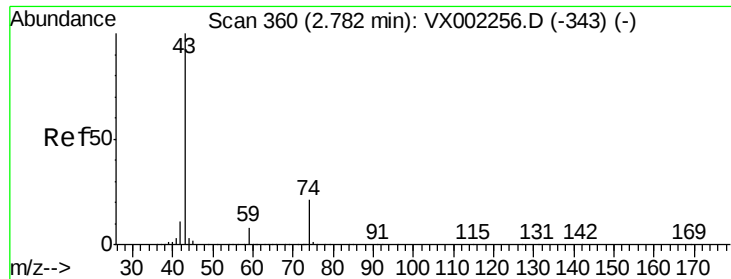
Tgt Ion: 76 Resp: 1674

Ion Ratio Lower Upper

76 100

78 11.4 6.9 10.3#

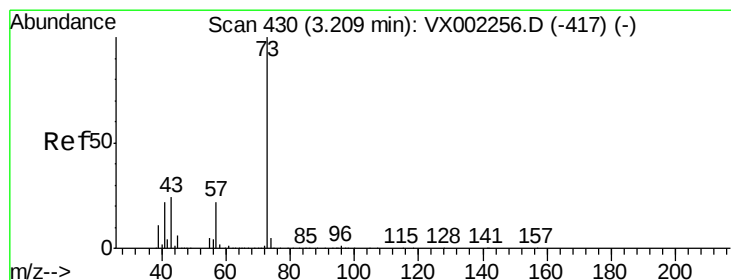
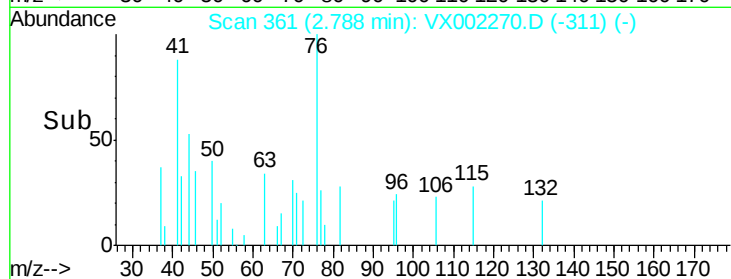
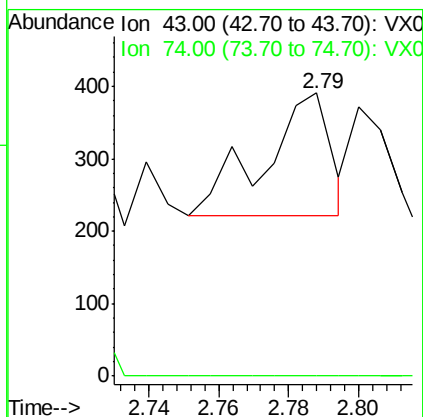
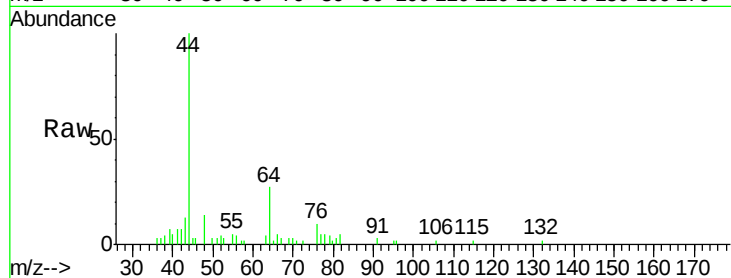




#18
Methyl Acetate
Concen: Below Cal
RT: 2.79 min Scan# 361
Delta R.T. 0.01 min
Lab File: VX002270.D
Acq: 04 Jun 2018 19:40

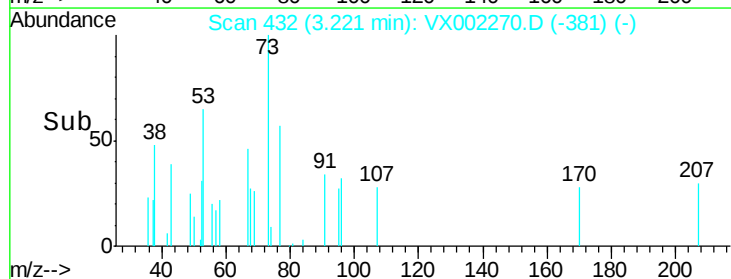
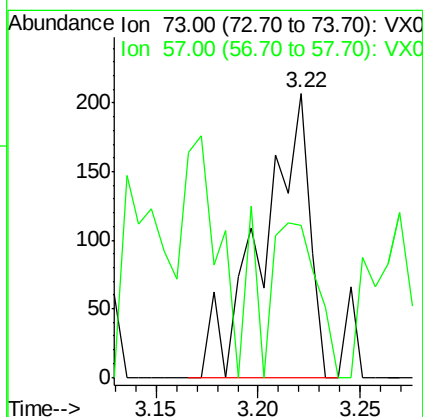
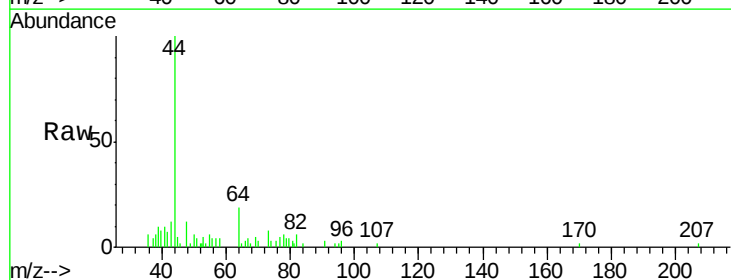
Instrument :
MSVOA_X
ClientSampled :
LF6-0058

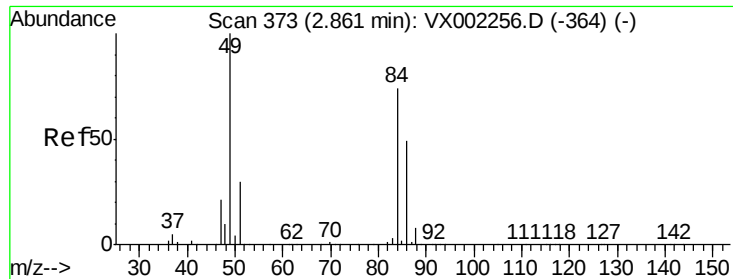
Tot Ion: 43 Resp: 222
Ion Ratio Lower Upper
43 100
74 0.0 16.7 25.1#



#19
Methyl tert-butyl Ether
Concen: Below Cal
RT: 3.22 min Scan# 432
Delta R.T. 0.01 min
Lab File: VX002270.D
Acq: 04 Jun 2018 19:40

Tgt Ion: 73 Resp: 330
Ion Ratio Lower Upper
73 100
57 53.6 17.7 26.5#

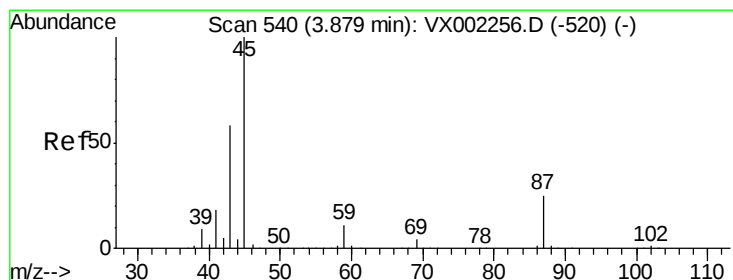
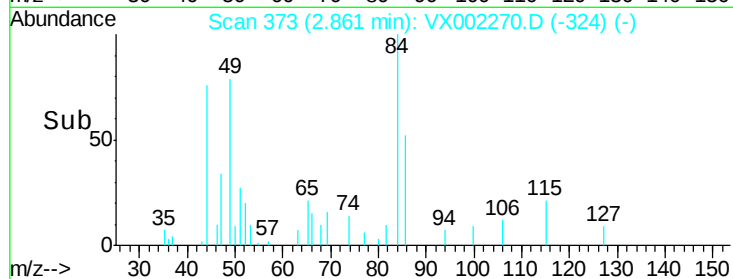
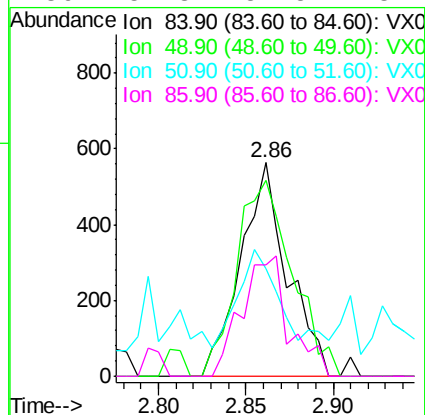
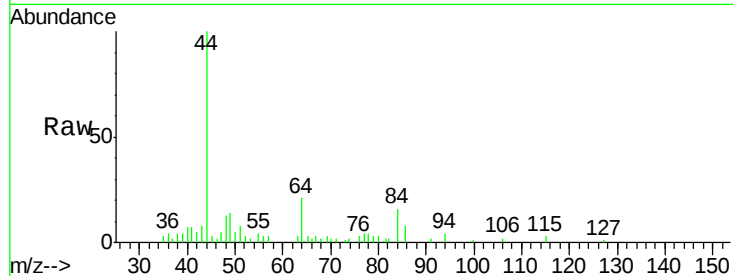




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX002270.D
Acq: 04 Jun 2018 19:40

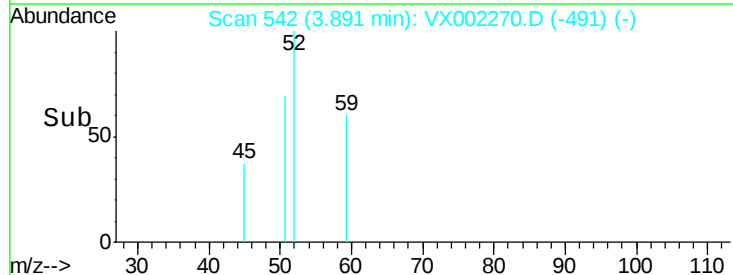
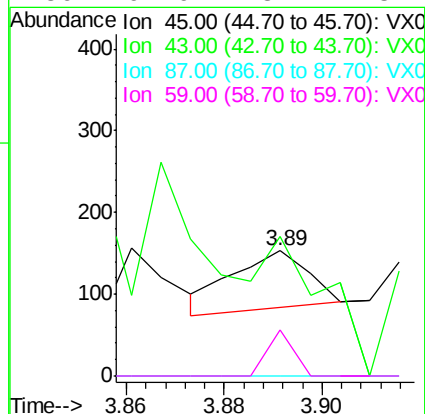
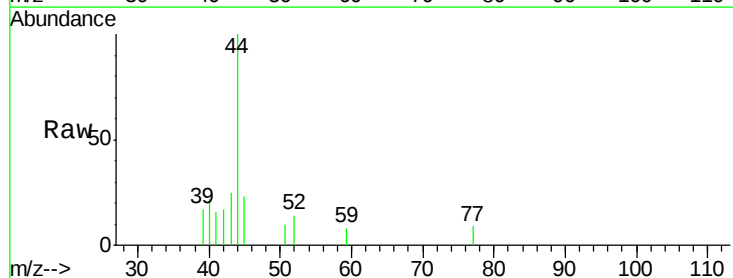
Instrument :
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ClientSampled :
LF6-0058

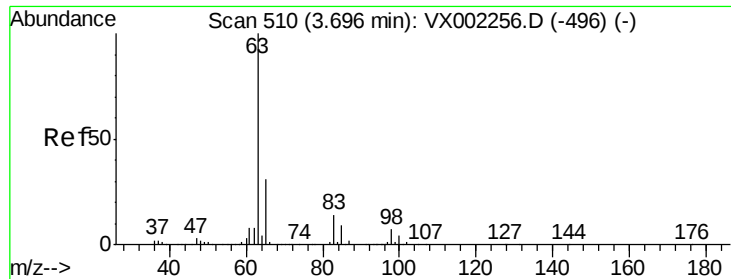
Tot Ion: 84 Resp: 1046
Ion Ratio Lower Upper
84 100
49 91.8 107.8 161.6#
51 33.0 32.8 49.2
86 52.3 52.5 78.7#



#22
Diisopropyl ether
Concen: Below Cal
RT: 3.89 min Scan# 542
Delta R.T. 0.01 min
Lab File: VX002270.D
Acq: 04 Jun 2018 19:40

Tgt Ion: 45 Resp: 77
Ion Ratio Lower Upper
45 100
43 91.9 46.8 70.2#
87 0.0 20.2 30.4#
59 91.9 8.7 13.1#





#24

1,1-Dichloroethane

Concen: 1.07 ug/l

RT: 3.70 min Scan# 510

Delta R.T. -0.00 min

Lab File: VX002270.D

Acq: 04 Jun 2018 19:40

Instrument :

MSVOA_X

ClientSampleId :

LF6-0058

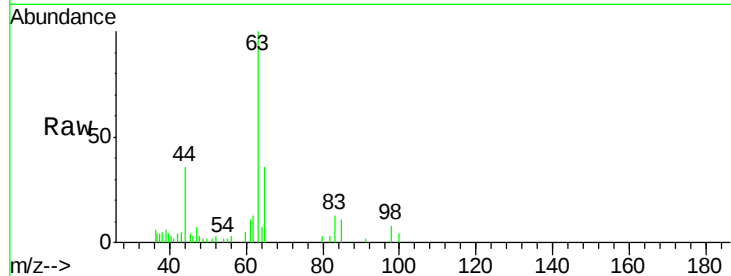
Tot Ion: 63 Resp: 6433

Ion Ratio Lower Upper

63 100

98 7.6 3.4 10.2

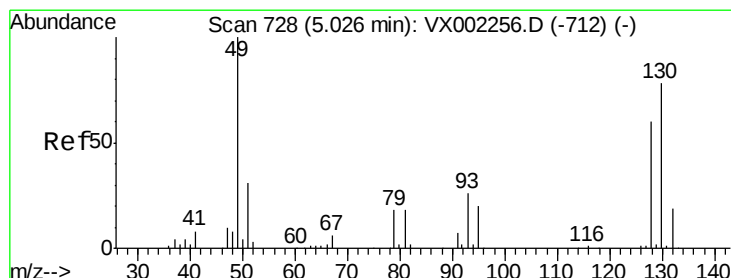
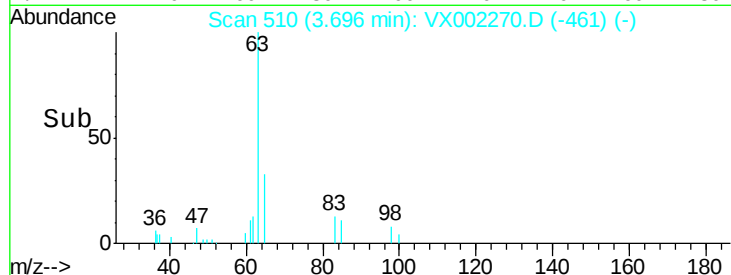
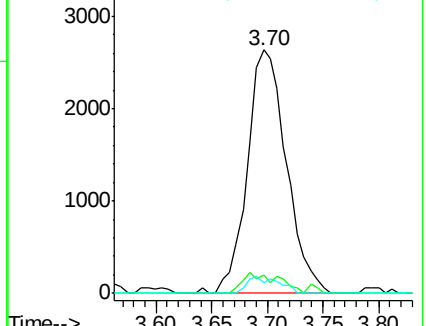
100 4.4 2.0 6.0



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0



#28

Bromochloromethane

Concen: Below Cal

RT: 5.02 min Scan# 727

Delta R.T. -0.01 min

Lab File: VX002270.D

Acq: 04 Jun 2018 19:40

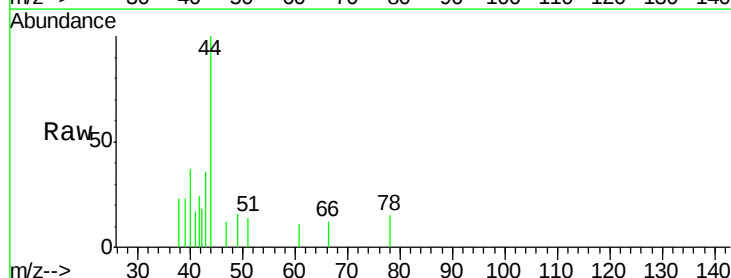
Tgt Ion: 49 Resp: 26

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.2

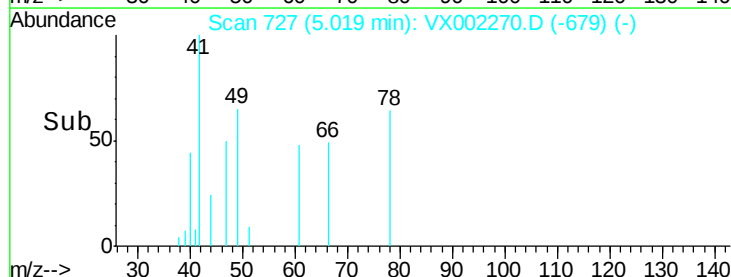
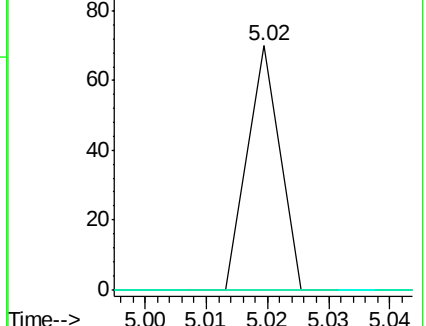
130 0.0 61.2 91.8#

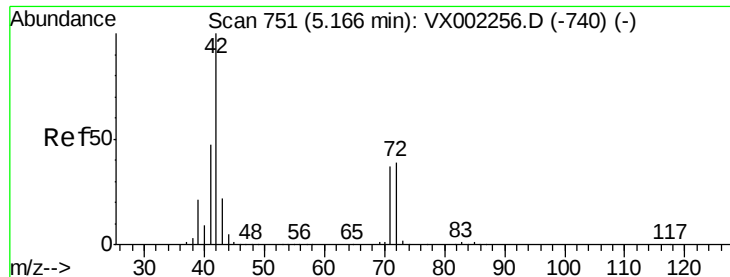


Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

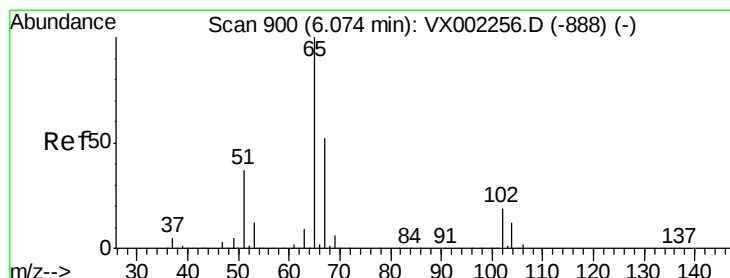
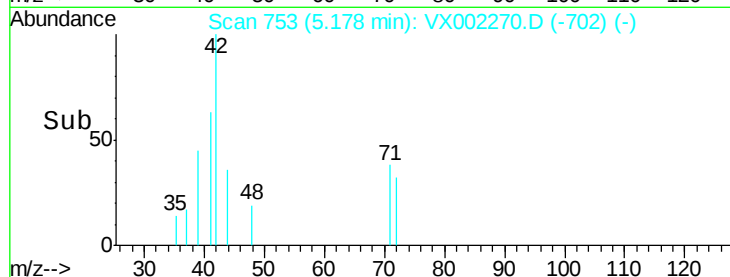
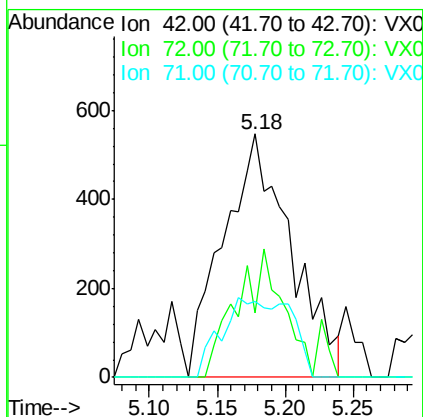
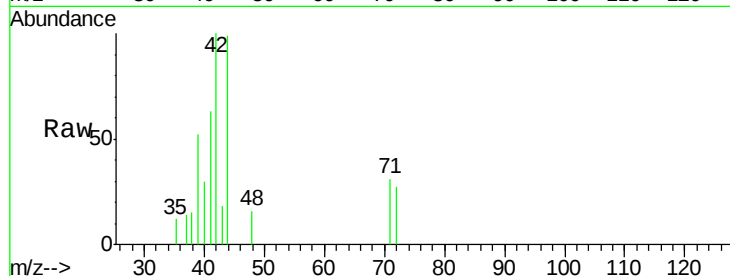




#29
Tetrahydrofuran
Concen: 1.13 ug/l
RT: 5.18 min Scan# 753
Delta R.T. 0.01 min
Lab File: VX002270.D
Acq: 04 Jun 2018 19:40

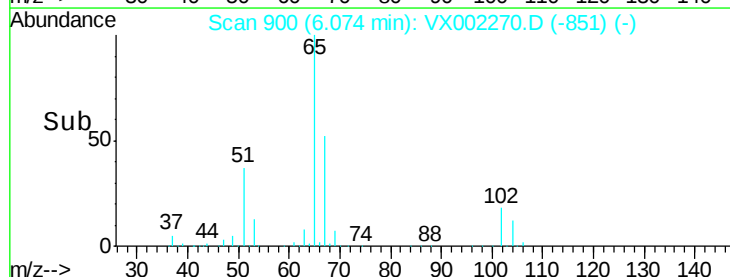
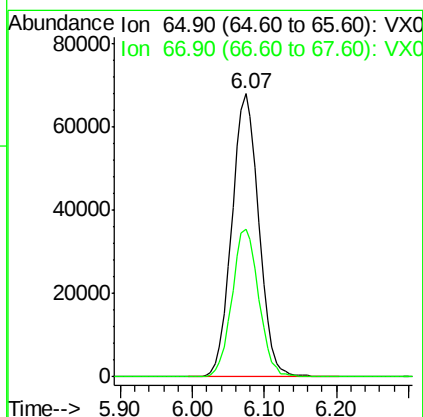
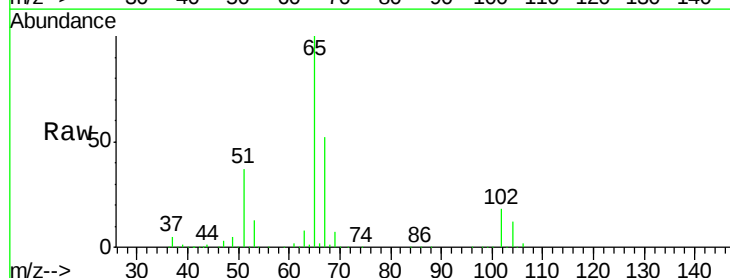
Instrument :
MSVOA_X
ClientSampleId :
LF6-0058

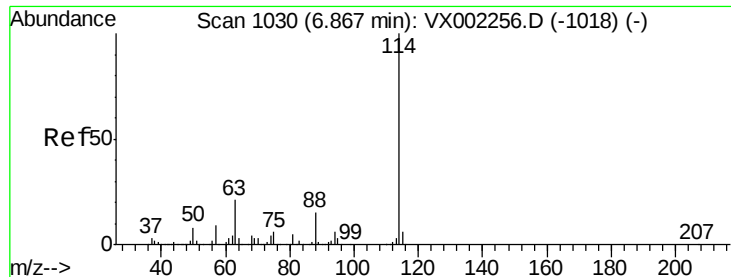
Tot Ion	Ratio	Lower	Upper
42	100		
72	36.3	32.0	48.0
71	23.4	30.1	45.1#



#33
1,2-Dichloroethane-d4
Concen: 46.74 ug/l
RT: 6.07 min Scan# 900
Delta R.T. 0.00 min
Lab File: VX002270.D
Acq: 04 Jun 2018 19:40

Tgt Ion	Ratio	Lower	Upper
65	100		
67	51.8	0.0	102.6





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX002270.D

Acq: 04 Jun 2018 19:40

Instrument :

MSVOA_X

ClientSampleId :

LF6-0058

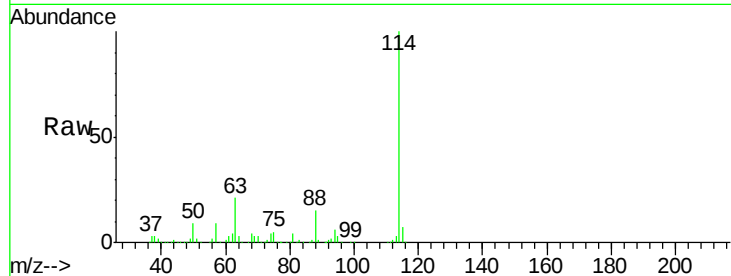
Tot Ion:114 Resp: 378152

Ion Ratio Lower Upper

114 100

63 20.8 0.0 41.4

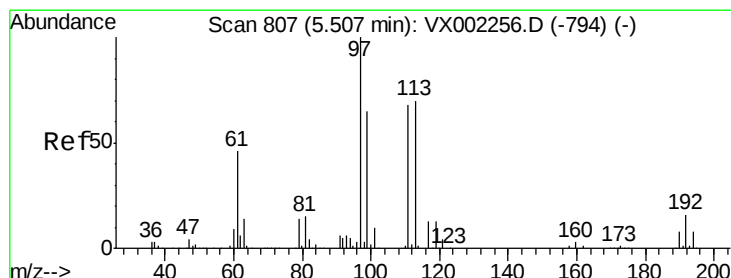
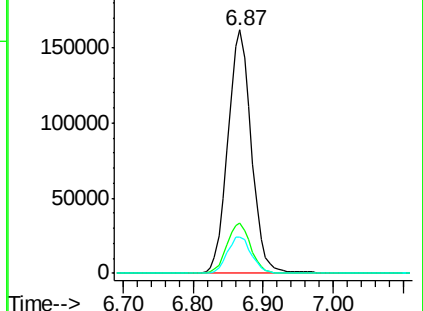
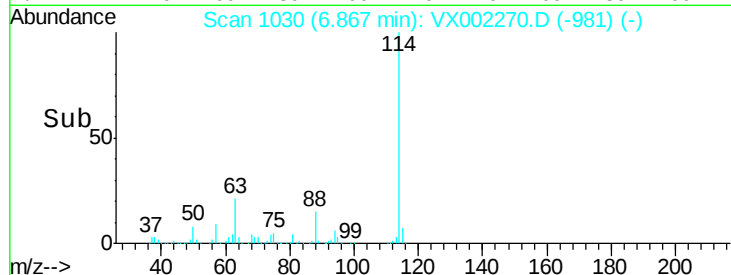
88 15.0 0.0 30.0



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: 44.92 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX002270.D

Acq: 04 Jun 2018 19:40

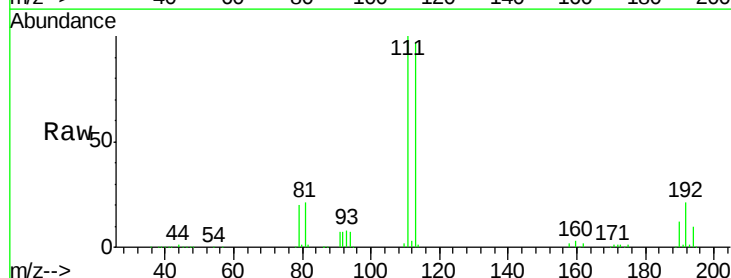
Tgt Ion:113 Resp: 133573

Ion Ratio Lower Upper

113 100

111 101.4 81.4 122.0

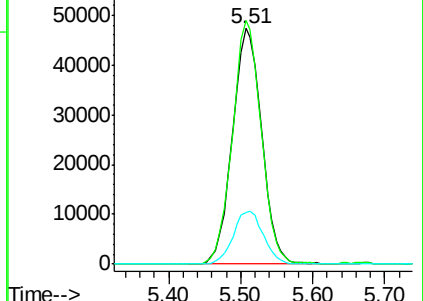
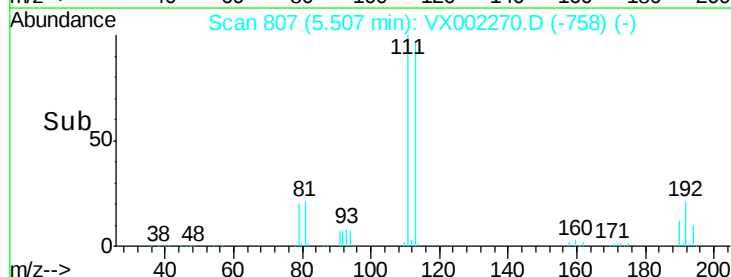
192 23.1 19.1 28.7

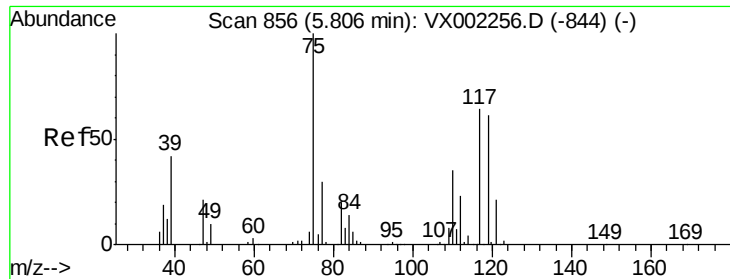


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

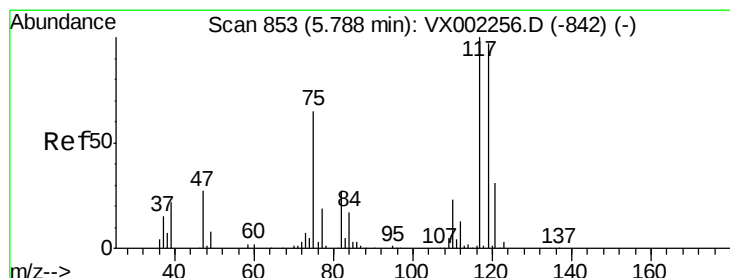
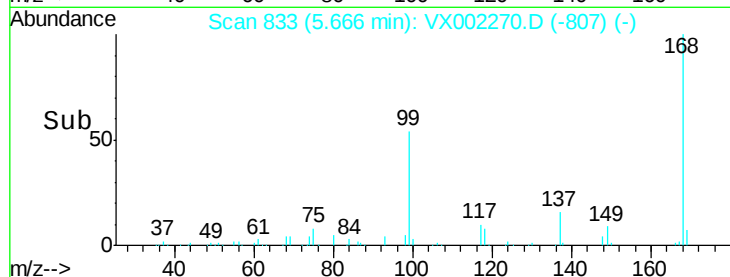
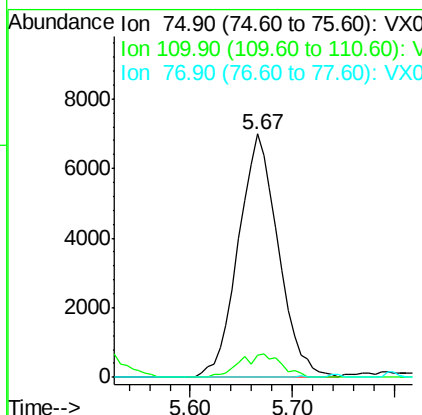
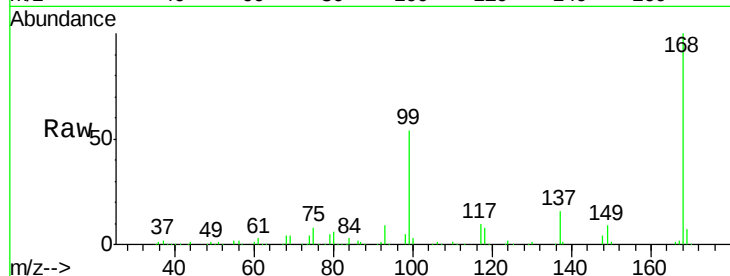




#36
 1,1-Dichloropropene
 Concen: 4.77 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.14 min
 Lab File: VX002270.D
 Acq: 04 Jun 2018 19:40

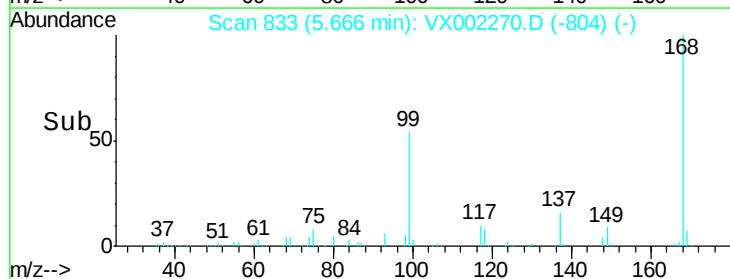
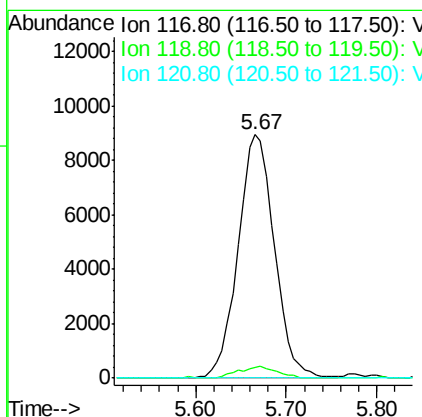
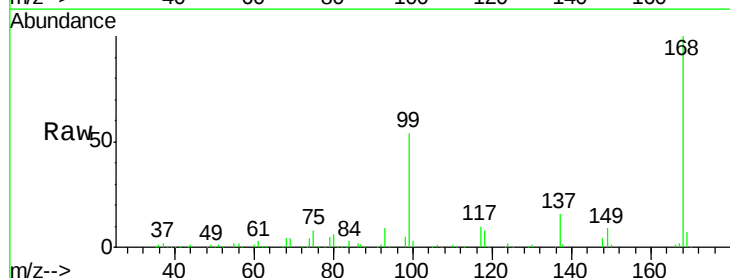
Instrument :
 MSVOA_X
 ClientSampled :
 LF6-0058

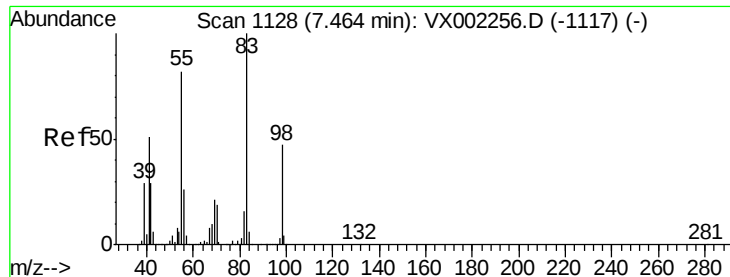
Tot Ion	75	Resp	18966
Ion Ratio	100	Lower	Upper
75	100		
110	10.1	18.1	54.4#
77	0.0	24.3	36.5#



#38
 Carbon Tetrachloride
 Concen: 5.98 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.12 min
 Lab File: VX002270.D
 Acq: 04 Jun 2018 19:40

Tgt Ion	117	Resp	24871
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
117	100		
119	4.5	77.4	116.0#
121	0.0	24.4	36.6#

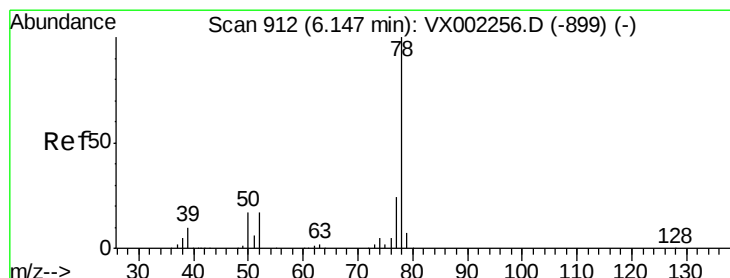
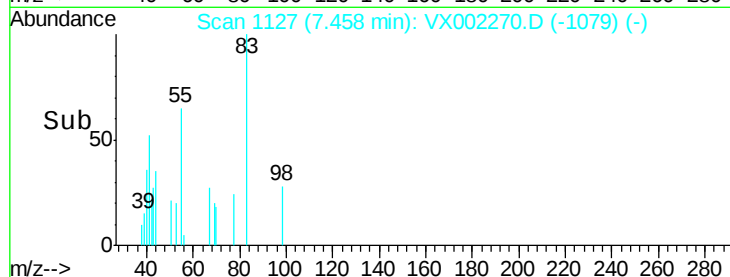
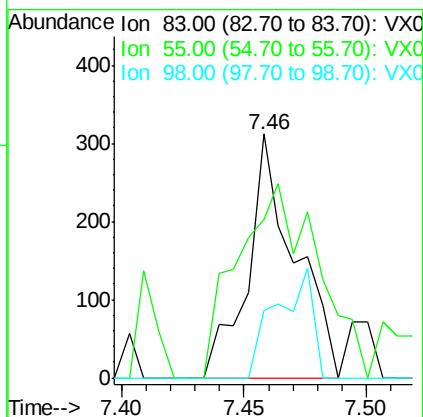
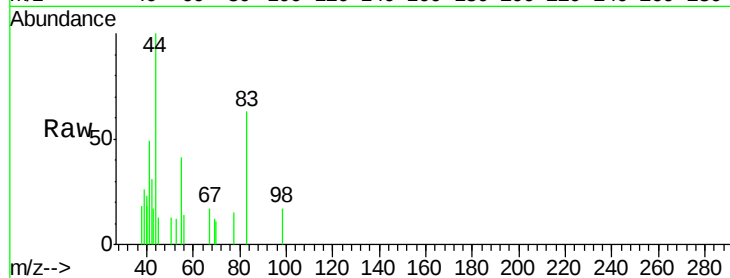




#39
Methvlcvclohexane
Concen: 0.35 ug/l
RT: 7.46 min Scan# 1127
Delta R.T. -0.01 min
Lab File: VX002270.D
Acq: 04 Jun 2018 19:40

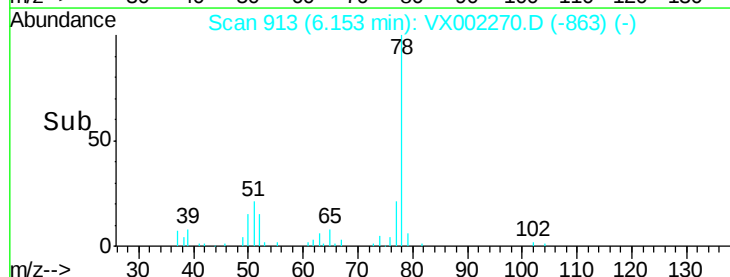
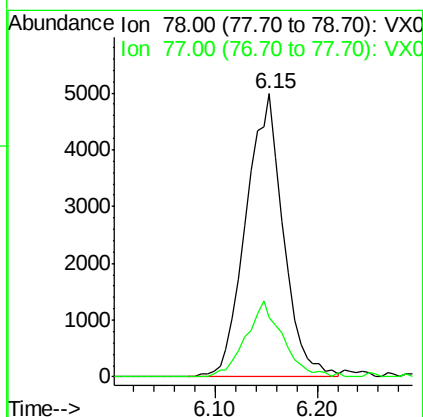
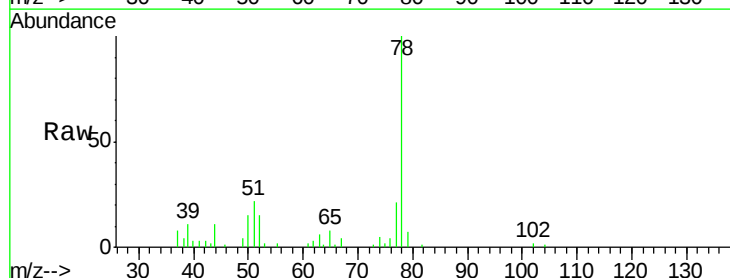
Instrument :
MSVOA_X
ClientSampleId :
LF6-0058

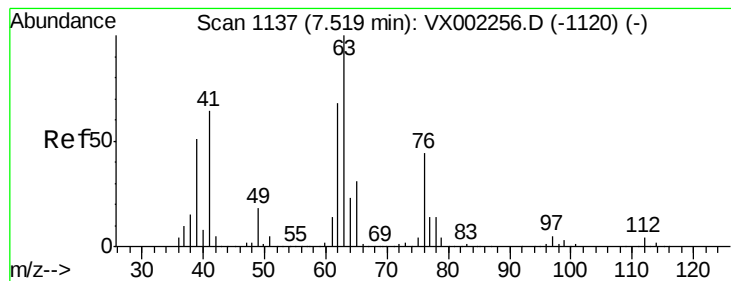
Tot Ion: 83 Resp: 419
Ion Ratio Lower Upper
83 100
55 65.1 65.4 98.0#
98 27.6 37.4 56.0#



#40
Benzene
Concen: 1.04 ug/l
RT: 6.15 min Scan# 913
Delta R.T. 0.01 min
Lab File: VX002270.D
Acq: 04 Jun 2018 19:40

Tgt Ion: 78 Resp: 12713
Ion Ratio Lower Upper
78 100
77 21.1 19.1 28.7





#45

1,2-Dichloropropane

Concen: 0.34 ug/l

RT: 7.52 min Scan# 1138

Delta R.T. 0.01 min

Lab File: VX002270.D

Acq: 04 Jun 2018 19:40

Instrument :

MSVOA_X

ClientSampled :

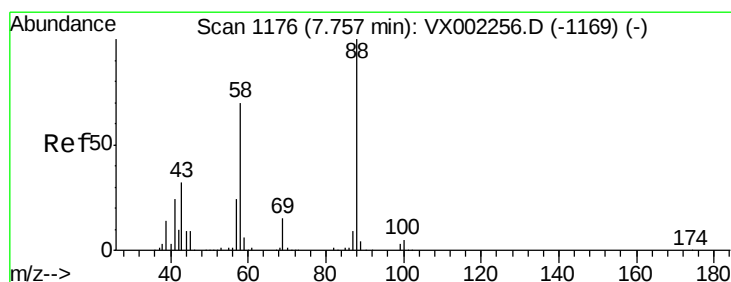
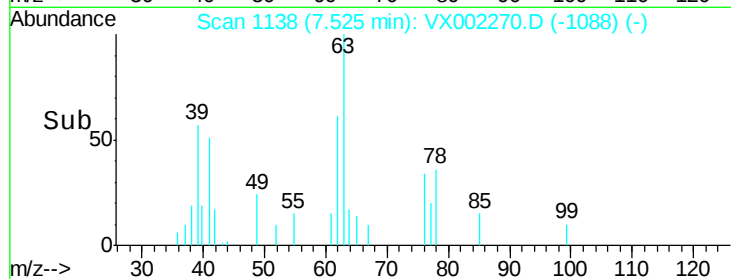
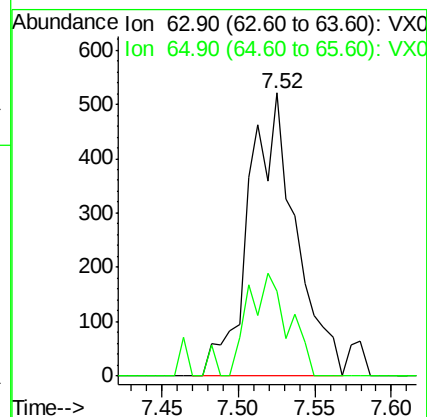
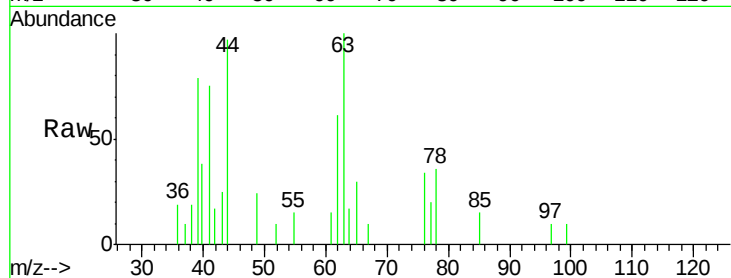
LF6-0058

Tot Ion: 63 Resp: 1122

Ion Ratio Lower Upper

63 100

65 29.8 24.7 37.1



#49

1,4-Dioxane

Concen: 4.22 ug/l

RT: 7.76 min Scan# 1177

Delta R.T. 0.01 min

Lab File: VX002270.D

Acq: 04 Jun 2018 19:40

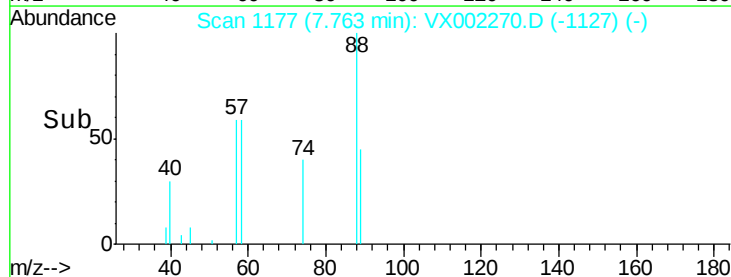
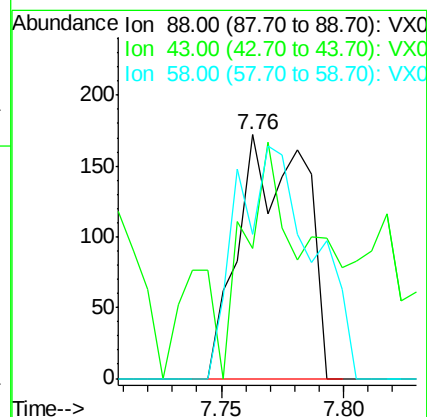
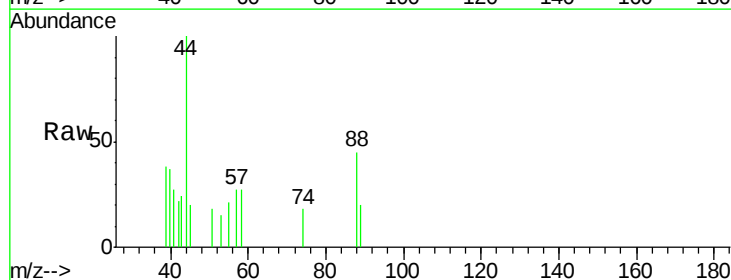
Tgt Ion: 88 Resp: 322

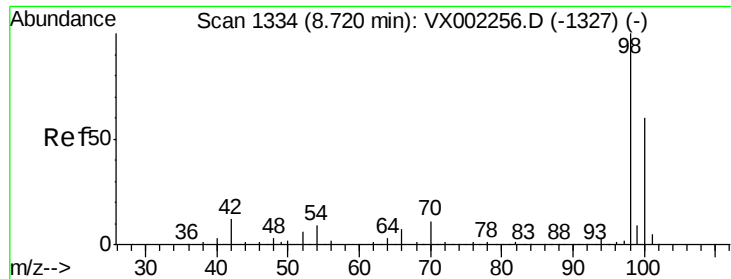
Ion Ratio Lower Upper

88 100

43 63.7 29.8 44.6#

58 110.6 57.1 85.7#

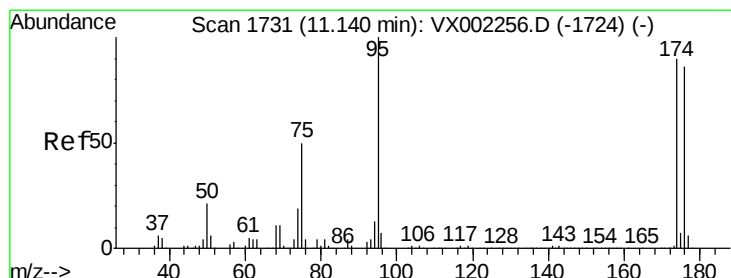
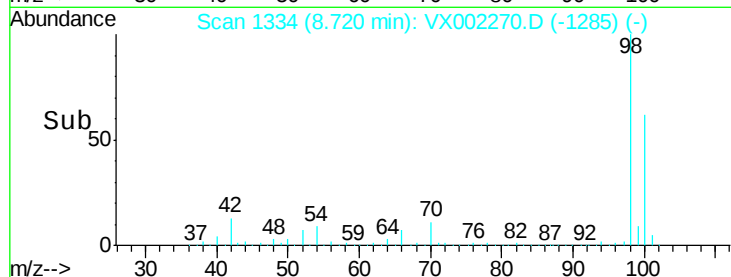
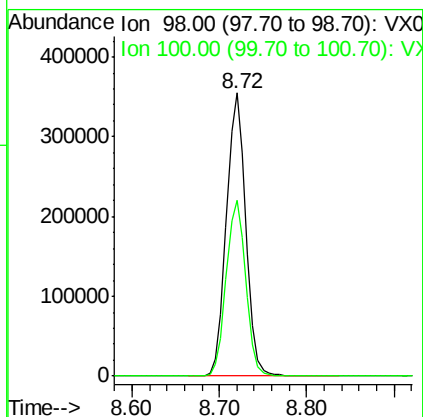
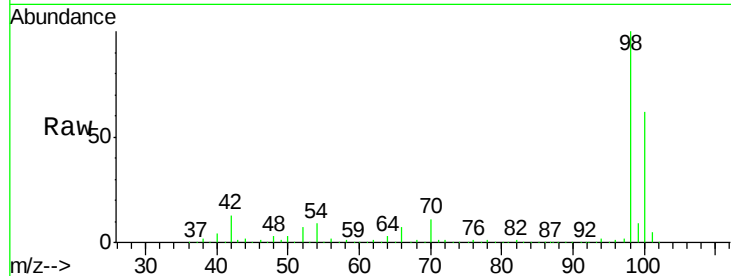




#50
Toluene-d8
Concen: 47.81 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX002270.D
Acq: 04 Jun 2018 19:40

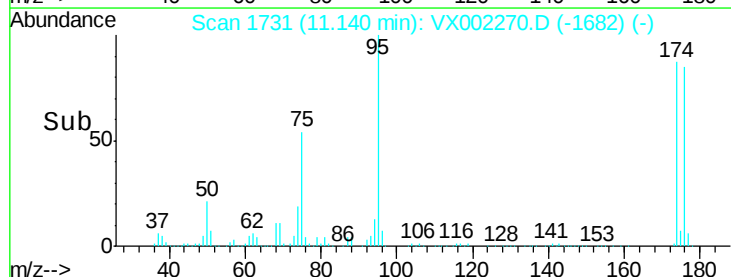
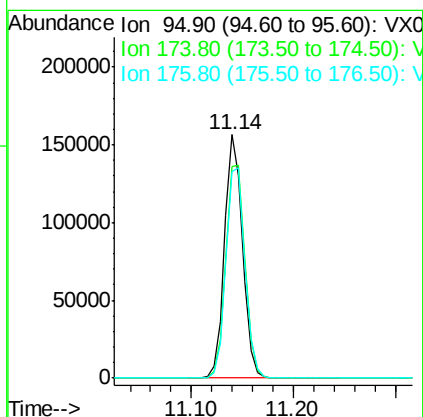
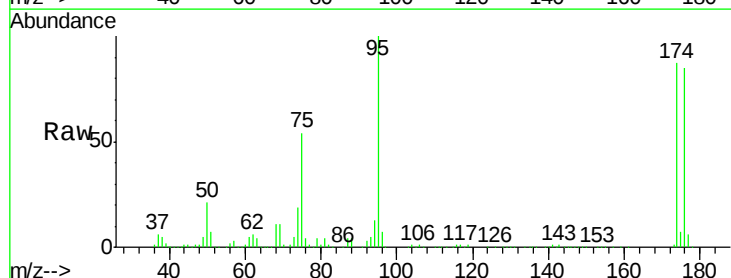
Instrument :
MSVOA_X
ClientSampleId :
LF6-0058

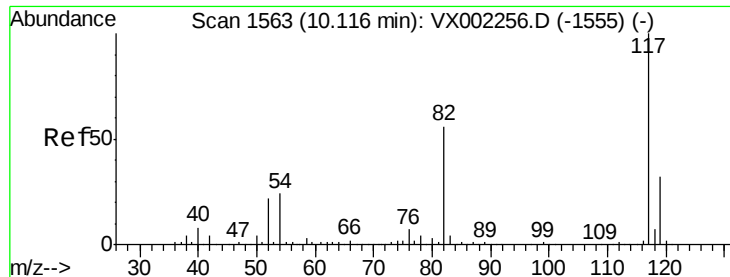
Tot Ion: 98 Resp: 544972
Ion Ratio Lower Upper
98 100
100 63.1 50.9 76.3



#62
4-Bromofluorobenzene
Concen: 43.56 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.00 min
Lab File: VX002270.D
Acq: 04 Jun 2018 19:40

Tgt Ion: 95 Resp: 191462
Ion Ratio Lower Upper
95 100
174 93.3 0.0 187.4
176 91.0 0.0 181.0

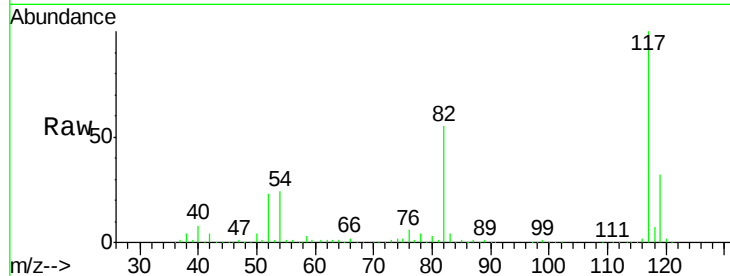




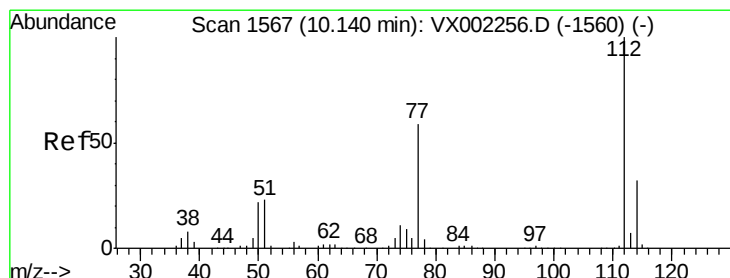
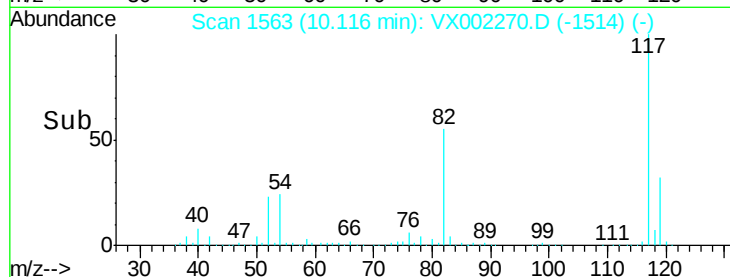
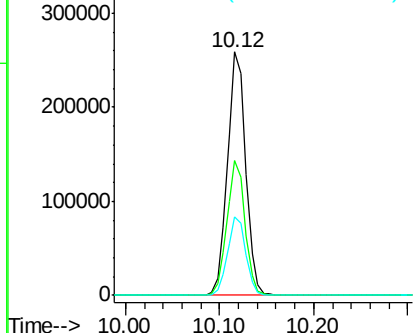
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002270.D
Acq: 04 Jun 2018 19:40

Instrument :
MSVOA_X
ClientSampleId :
LF6-0058

Tot Ion:117 Resp: 347468
Ion Ratio Lower Upper
117 100
82 55.2 45.0 67.4
119 32.0 25.8 38.6

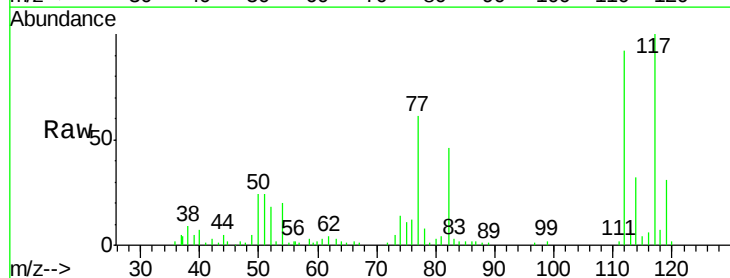


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

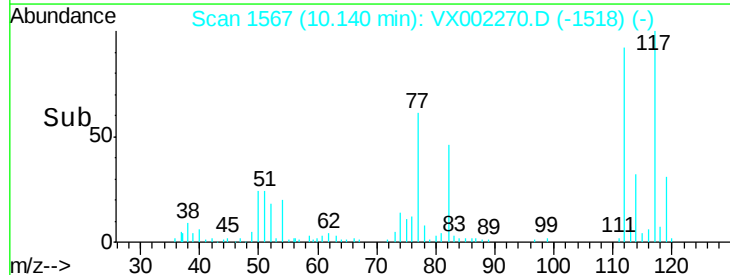
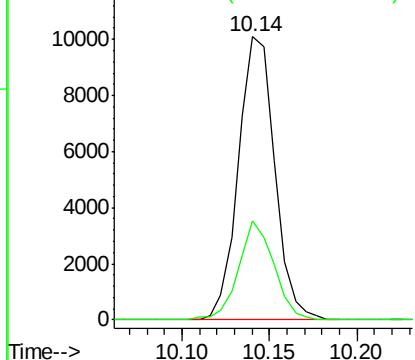


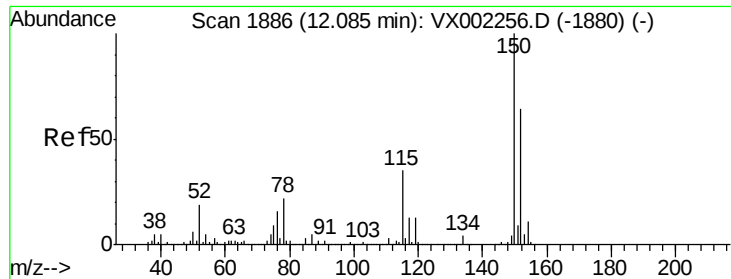
#65
Chlorobenzene
Concen: 1.69 ug/l
RT: 10.14 min Scan# 1567
Delta R.T. -0.00 min
Lab File: VX002270.D
Acq: 04 Jun 2018 19:40

Tgt Ion:112 Resp: 14597
Ion Ratio Lower Upper
112 100
114 35.2 25.3 37.9



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



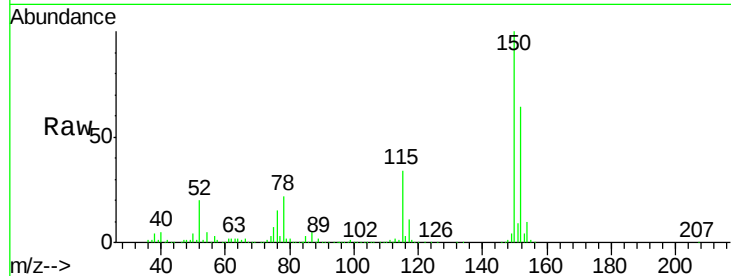


#72

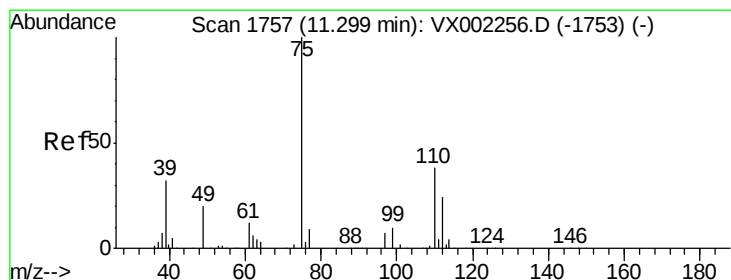
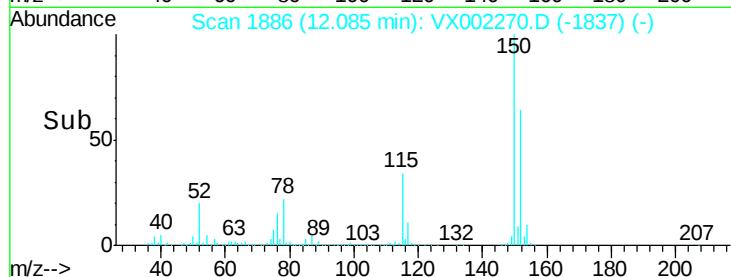
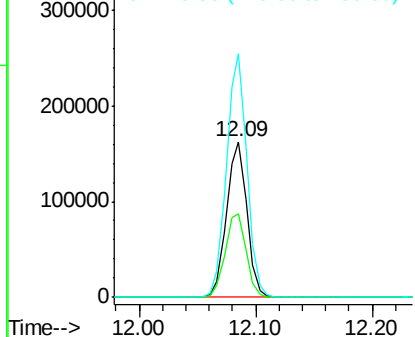
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.09 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX002270.D
Acq: 04 Jun 2018 19:40

Instrument :
MSVOA_X
ClientSampleId :
LF6-0058

Tot Ion:152 Resp: 195701
Ion Ratio Lower Upper
152 100
115 55.5 40.1 120.2
150 157.0 0.0 347.2



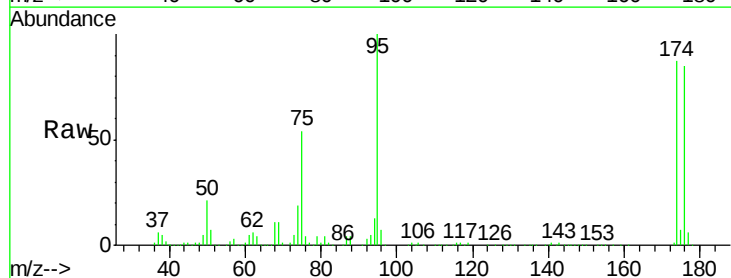
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



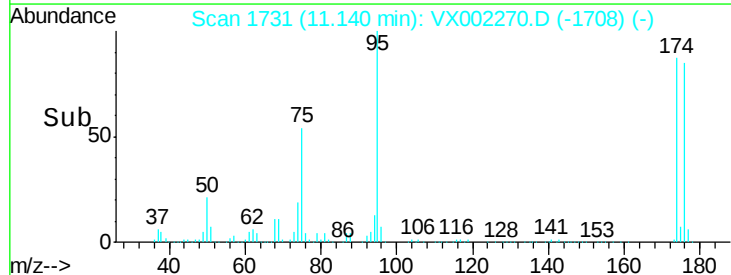
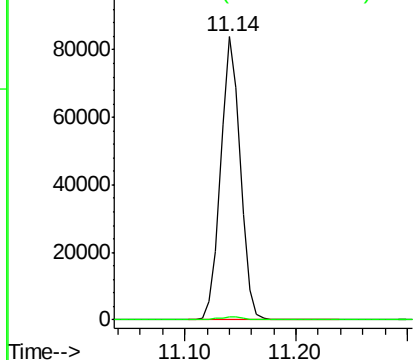
#76

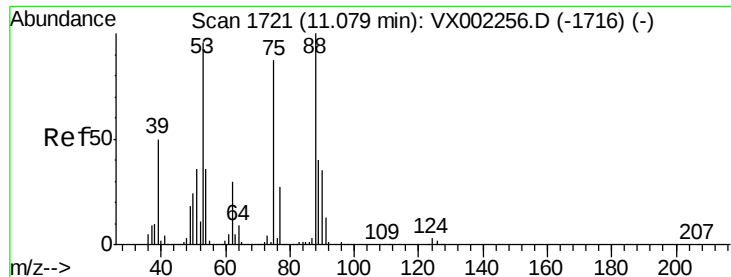
1,2,3-Trichloropropane
Concen: 23.88 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.16 min
Lab File: VX002270.D
Acq: 04 Jun 2018 19:40

Tgt Ion: 75 Resp: 102555
Ion Ratio Lower Upper
75 100
77 1.2 22.8 68.3#



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: 83.72 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002270.D

Acq: 04 Jun 2018 19:40

Instrument :

MSVOA_X

ClientSampled :

LF6-0058

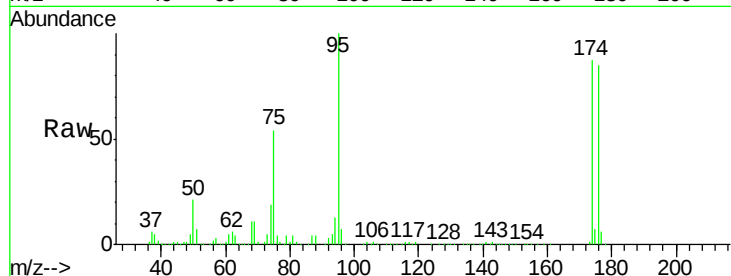
Tot Ion: 75 Resp: 102555

Ion Ratio Lower Upper

75 100

53 0.0 86.8 130.2#

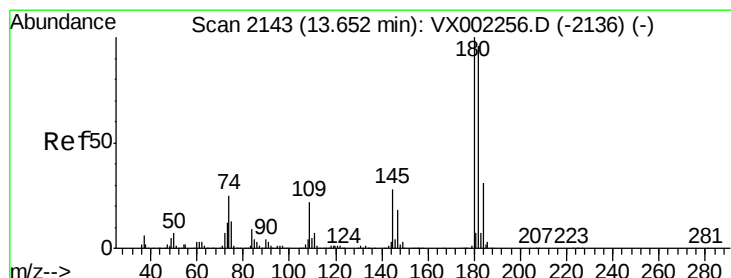
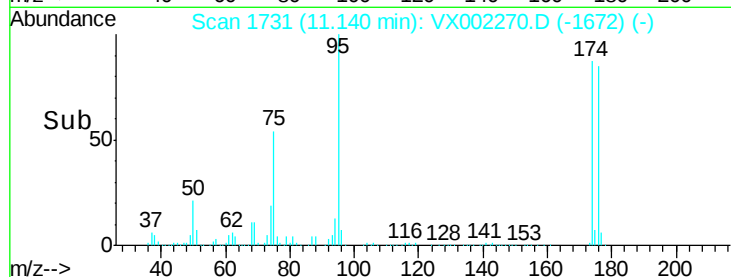
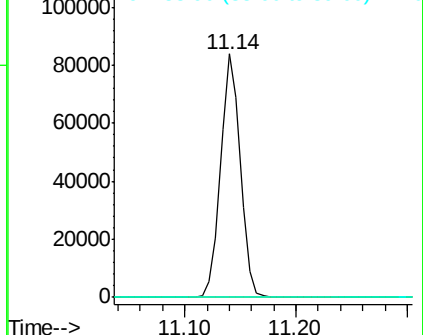
89 0.0 38.2 57.2#



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



#93

1,2,4-Trichlorobenzene

Concen: 0.21 ug/l

RT: 13.65 min Scan# 2143

Delta R.T. -0.00 min

Lab File: VX002270.D

Acq: 04 Jun 2018 19:40

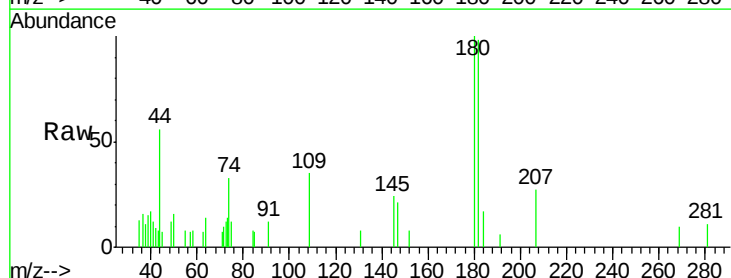
Tgt Ion: 180 Resp: 1045

Ion Ratio Lower Upper

180 100

182 102.5 47.7 143.1

145 24.6 14.1 42.4



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

