

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071918\
 Data File : VX003478.D
 Acq On : 19 Jul 2018 22:21
 Operator : JC/SP
 Sample : J3965-14
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LF1-EB-2018-1

Quant Time: Jul 20 04:02:37 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071918W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 19 17:09:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	297059	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	431583	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	406819	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	226134	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	175846	50.01	ug/l	0.00
Spiked Amount			Recovery	=	100.02%	
35) Dibromofluoromethane	5.51	113	159510	48.52	ug/l	0.00
Spiked Amount			Recovery	=	97.04%	
50) Toluene-d8	8.72	98	609860	49.36	ug/l	0.00
Spiked Amount			Recovery	=	98.72%	
62) 4-Bromofluorobenzene	11.14	95	211367	46.88	ug/l	0.00
Spiked Amount			Recovery	=	93.76%	

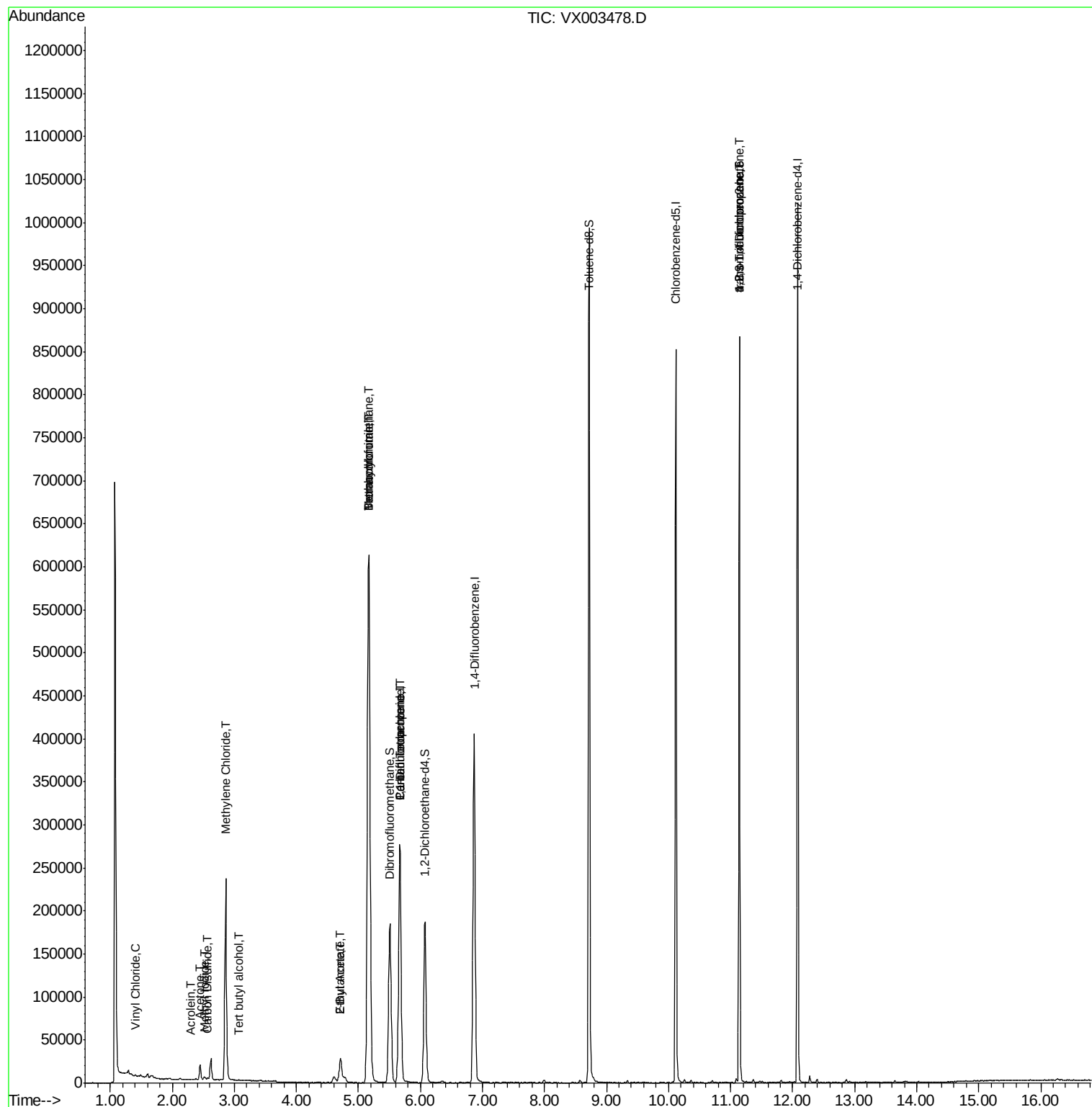
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	390	Below Cal		89
3) Chloromethane	1.32	50	1085	Below Cal		93
4) Vinyl Chloride	1.40	62	1259	0.33	ug/l	95
5) Bromomethane	1.65	94	2486	Below Cal		97
10) Methyl Iodide	2.52	142	2512	0.63	ug/l	92
11) Tert butyl alcohol	3.07	59	978	1.41	ug/l #	82
13) Acrolein	2.29	56	173	0.55	ug/l	87
16) Acetone	2.45	43	18336	13.80	ug/l #	86
17) Carbon Disulfide	2.57	76	2221	0.27	ug/l #	93
20) Methylene Chloride	2.86	84	111624	34.09	ug/l	89
25) 2-Butanone	4.71	43	51210	22.98	ug/l	96
28) Bromochloromethane	5.17	49	1114	0.43	ug/l #	13
29) Tetrahydrofuran	5.17	42	591128	401.54	ug/l	93
36) 1,1-Dichloropropene	5.67	75	17798	3.82	ug/l #	50
37) Ethyl Acetate	4.71	43	51210	11.61	ug/l #	71
38) Carbon Tetrachloride	5.67	117	25152	5.50	ug/l #	16
41) Methacrylonitrile	5.17	41	318123	122.76	ug/l #	45
76) 1,2,3-Trichloropropane	11.14	75	99424	24.47	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	99424	68.59	ug/l #	7

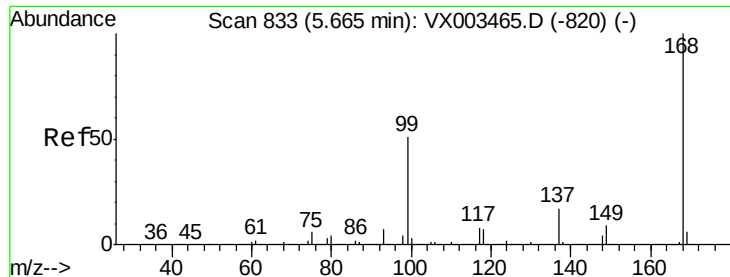
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.00 min

Lab File: VX003478.D

Acq: 19 Jul 2018 22:21

Instrument :

MSVOA_X

ClientSampleId :

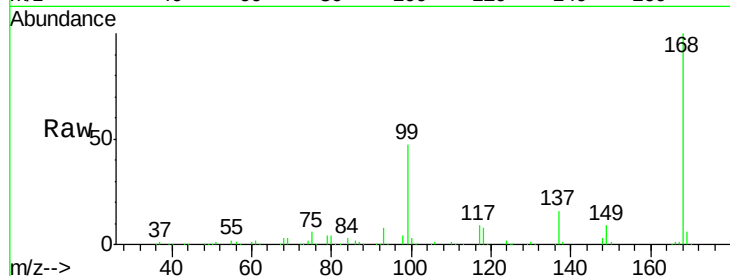
LF1-EB-2018-1

Tot Ion:168 Resp: 297059

Ion Ratio Lower Upper

168 100

99 47.1 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

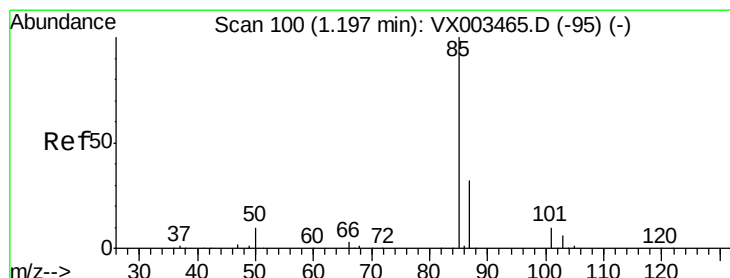
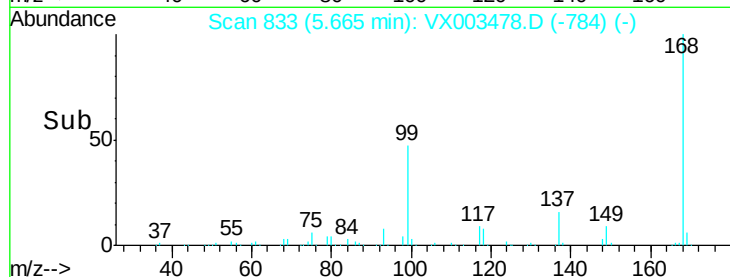
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX003478.D

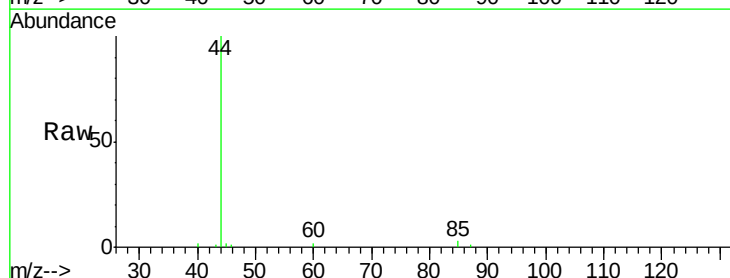
Acq: 19 Jul 2018 22:21

Tgt Ion: 85 Resp: 390

Ion Ratio Lower Upper

85 100

87 38.0 16.0 47.9



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

400

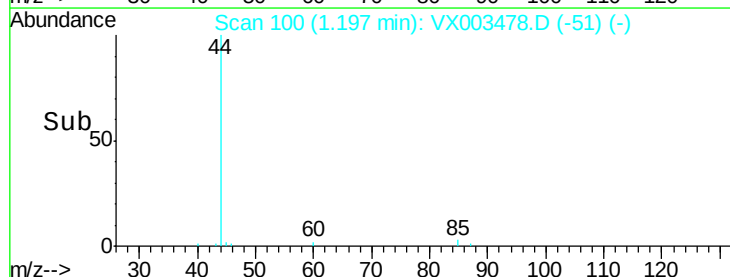
300

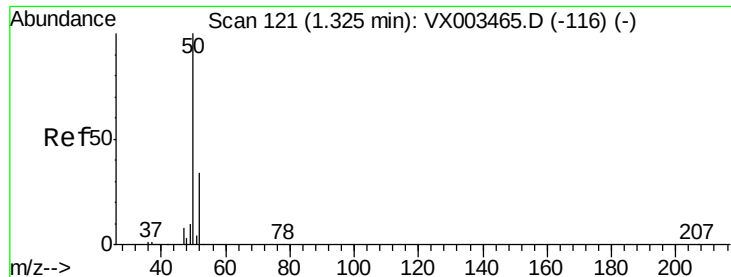
200

100

0

Time--> 1.15 1.20





#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003478.D

Acq: 19 Jul 2018 22:21

Instrument :

MSVOA_X

ClientSampleId :

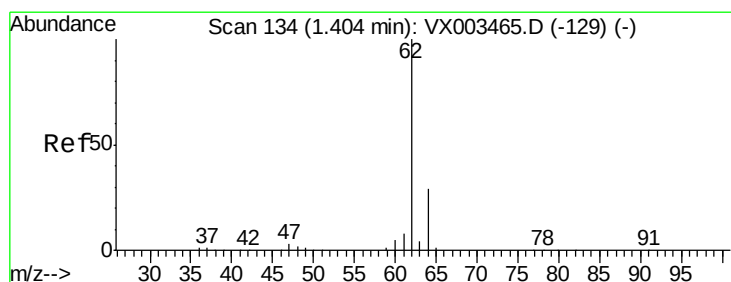
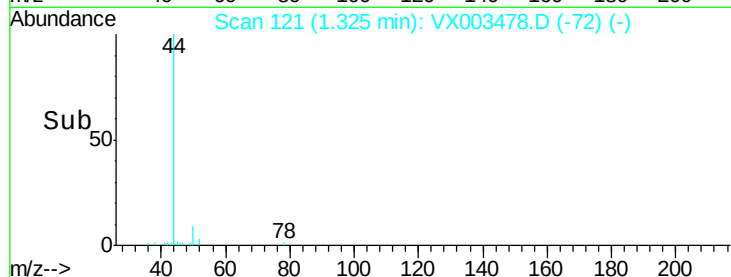
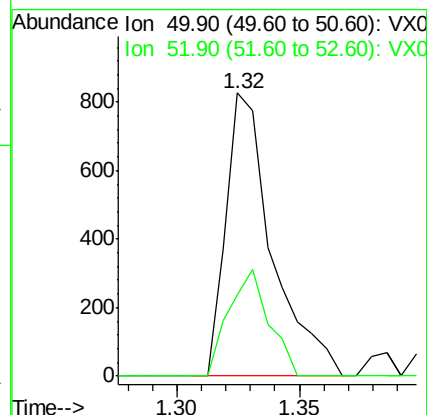
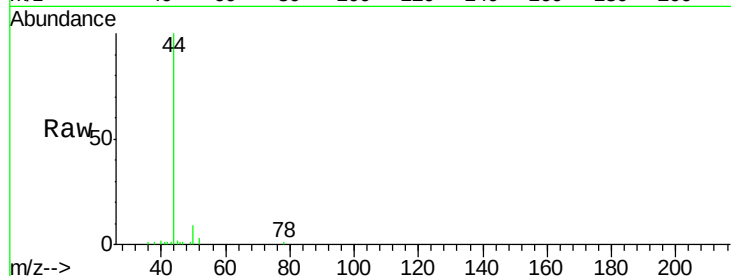
LF1-EB-2018-1

Tot Ion: 50 Resp: 1085

Ion Ratio Lower Upper

50 100

52 28.4 25.7 38.5



#4

Vinyl Chloride

Concen: 0.33 ug/l

RT: 1.40 min Scan# 134

Delta R.T. -0.00 min

Lab File: VX003478.D

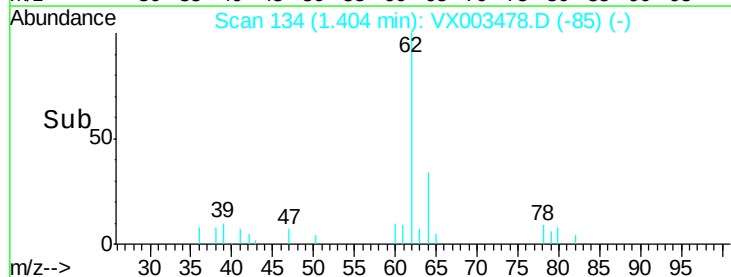
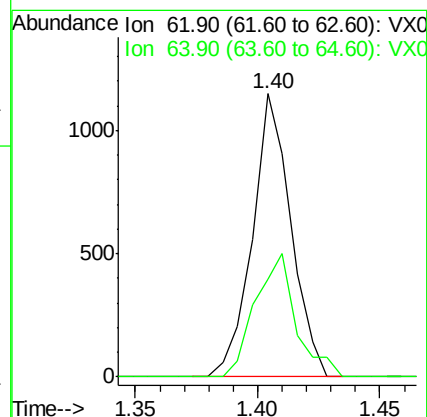
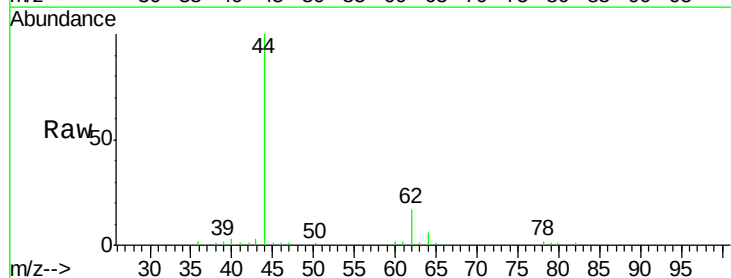
Acq: 19 Jul 2018 22:21

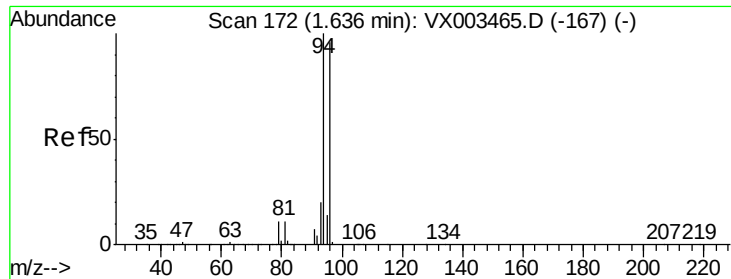
Tgt Ion: 62 Resp: 1259

Ion Ratio Lower Upper

62 100

64 34.4 25.4 38.2





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX003478.D

Acq: 19 Jul 2018 22:21

Instrument :

MSVOA_X

ClientSampled :

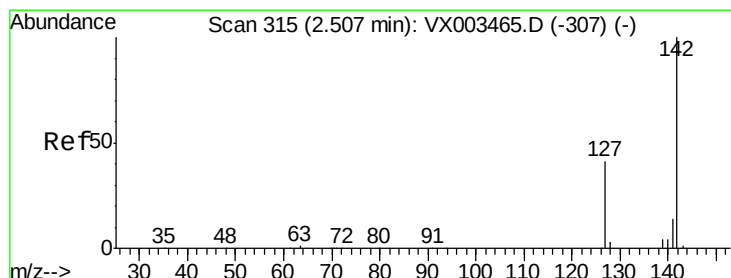
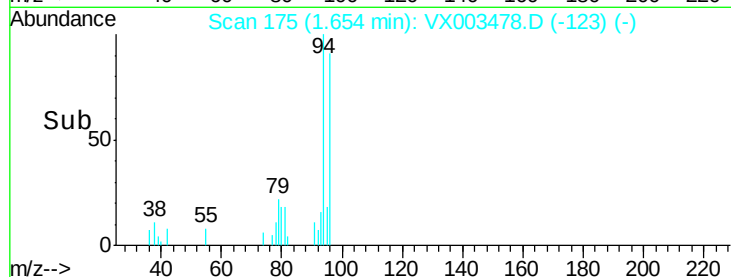
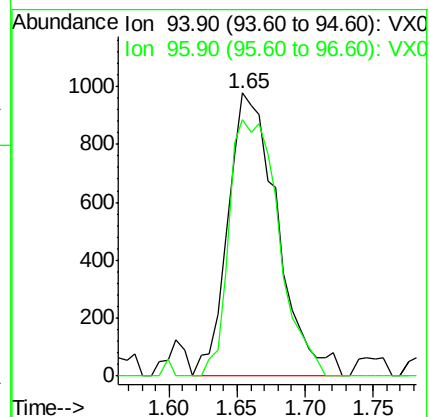
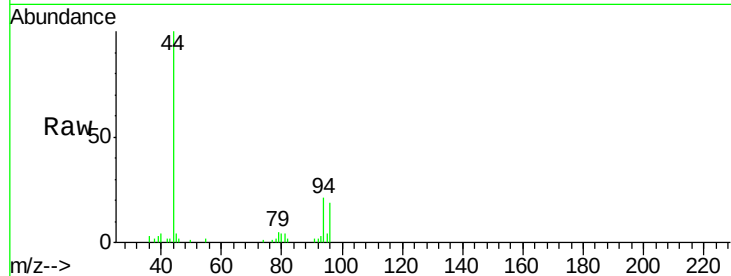
LF1-EB-2018-1

Tot Ion: 94 Resp: 2486

Ion Ratio Lower Upper

94 100

96 90.7 74.9 112.3



#10

Methyl Iodide

Concen: 0.63 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX003478.D

Acq: 19 Jul 2018 22:21

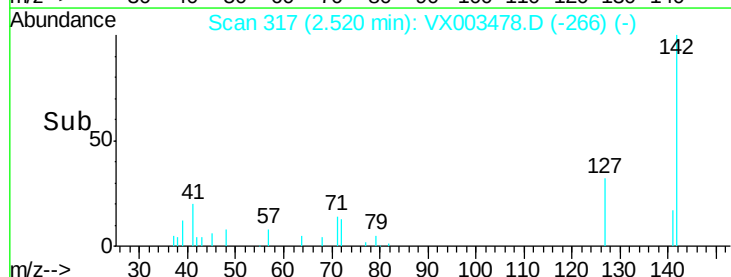
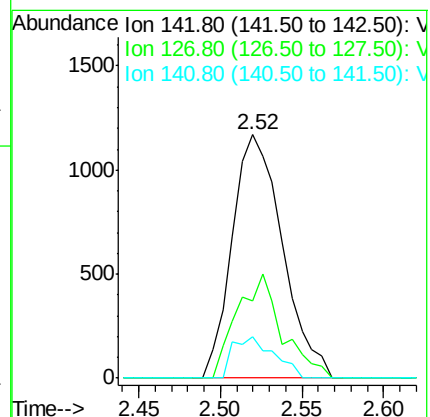
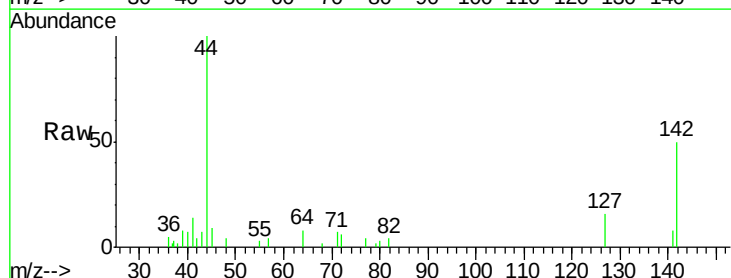
Tgt Ion: 142 Resp: 2512

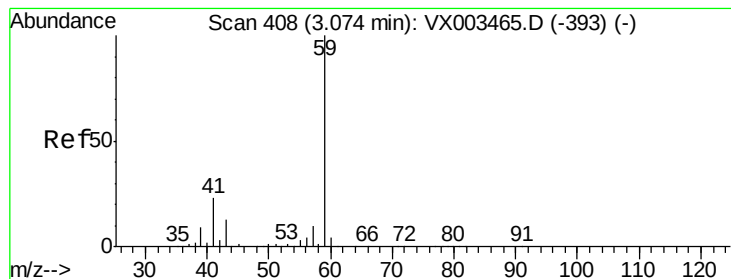
Ion Ratio Lower Upper

142 100

127 38.7 36.6 55.0

141 13.9 11.3 16.9





#11

Tert butyl alcohol

Concen: 1.41 ug/l

RT: 3.07 min Scan# 408

Delta R.T. -0.00 min

Lab File: VX003478.D

Acq: 19 Jul 2018 22:21

Instrument :

MSVOA_X

ClientSampleId :

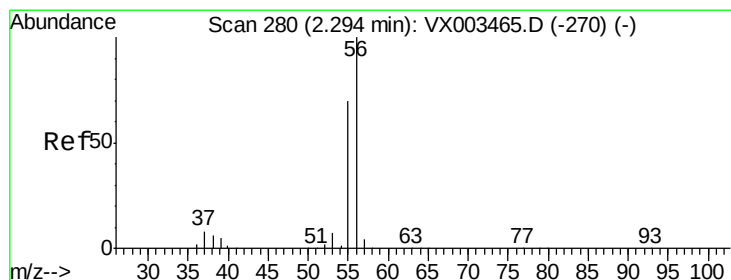
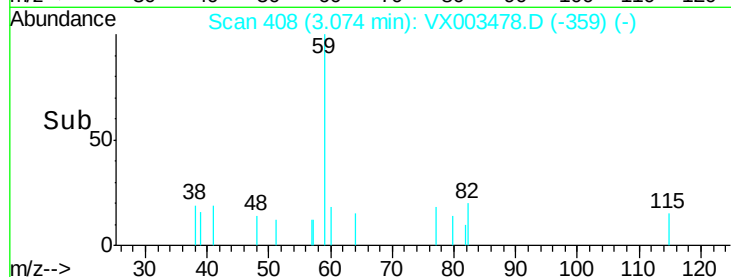
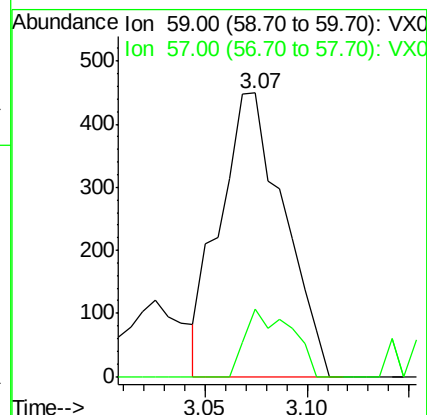
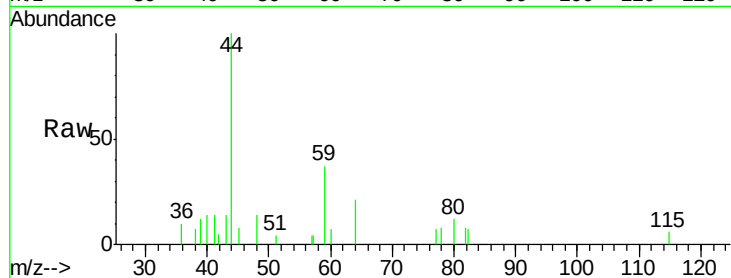
LF1-EB-2018-1

Tot Ion: 59 Resp: 978

Ion Ratio Lower Upper

59 100

57 17.1 8.2 12.2#



#13

Acrolein

Concen: 0.55 ug/l

RT: 2.29 min Scan# 280

Delta R.T. -0.00 min

Lab File: VX003478.D

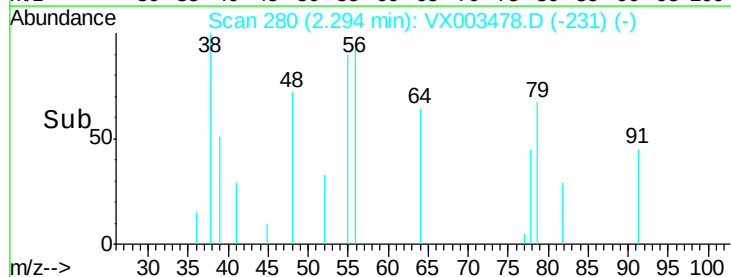
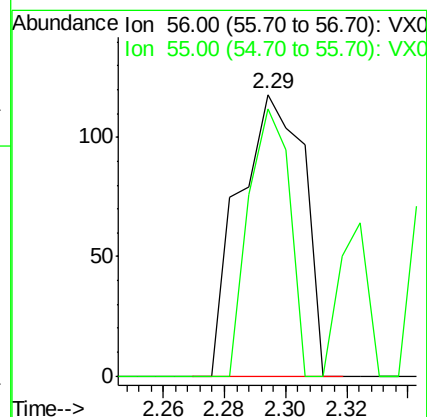
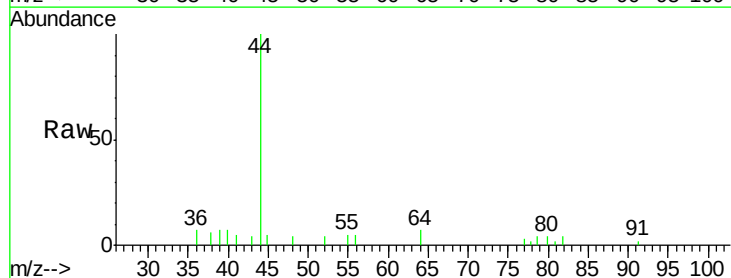
Acq: 19 Jul 2018 22:21

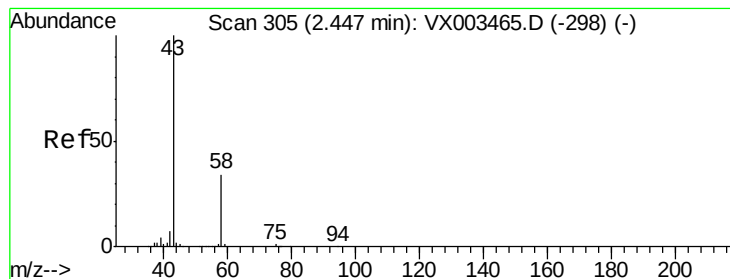
Tgt Ion: 56 Resp: 173

Ion Ratio Lower Upper

56 100

55 60.1 57.0 85.4





#16

Acetone

Concen: 13.80 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.00 min

Lab File: VX003478.D

Acq: 19 Jul 2018 22:21

Instrument :

MSVOA_X

ClientSampleId :

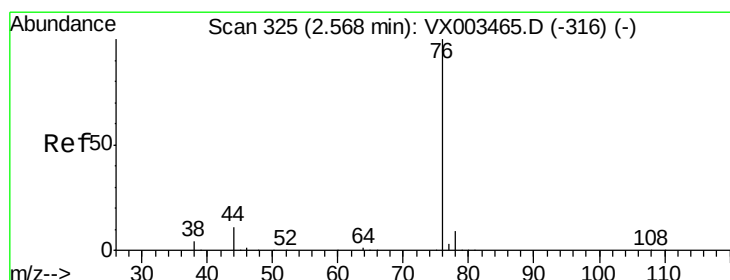
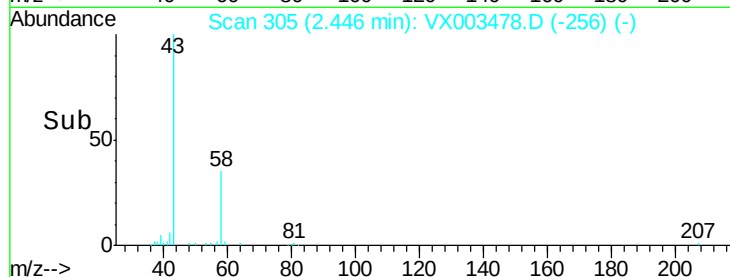
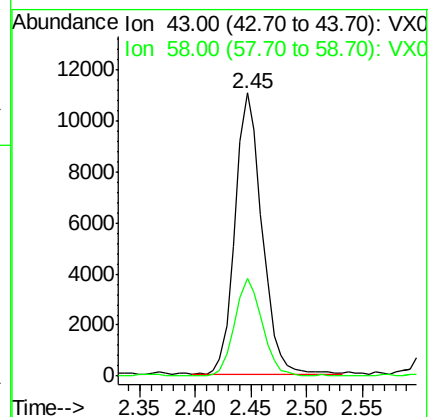
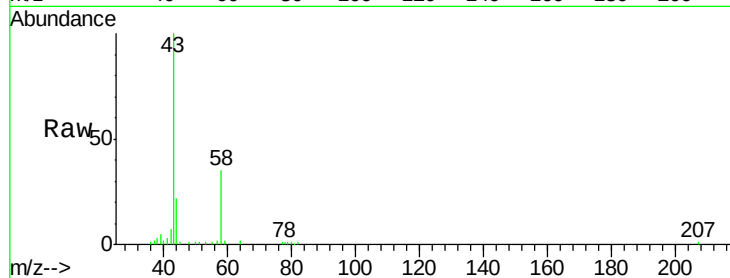
LF1-EB-2018-1

Tot Ion: 43 Resp: 18336

Ion Ratio Lower Upper

43 100

58 34.9 22.1 33.1#



#17

Carbon Disulfide

Concen: 0.27 ug/l

RT: 2.57 min Scan# 325

Delta R.T. 0.00 min

Lab File: VX003478.D

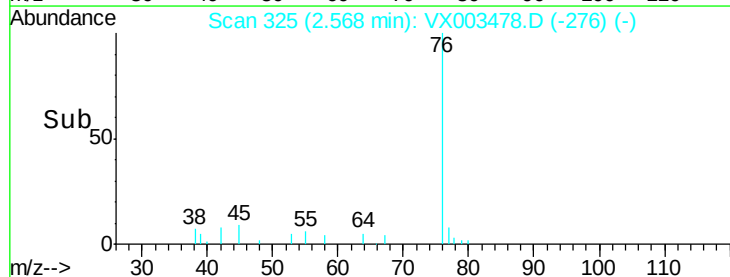
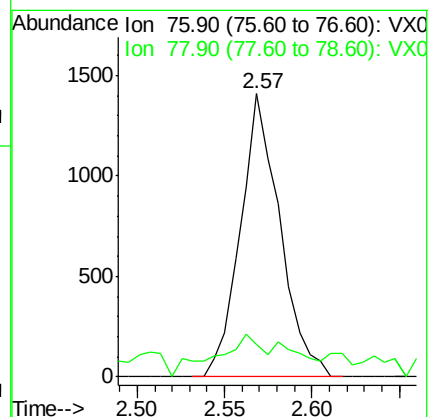
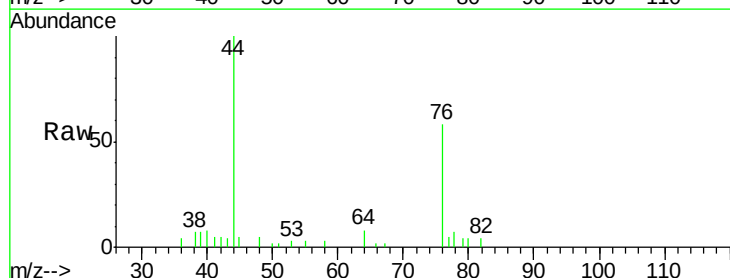
Acq: 19 Jul 2018 22:21

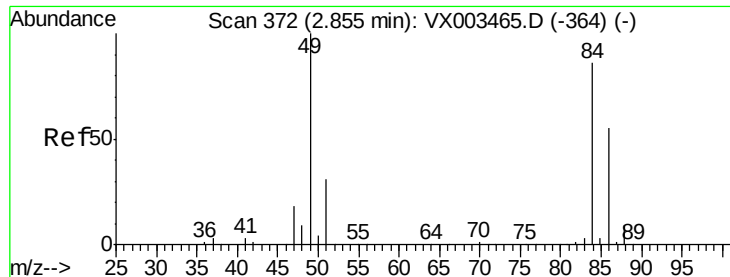
Tgt Ion: 76 Resp: 2221

Ion Ratio Lower Upper

76 100

78 6.3 6.9 10.3#

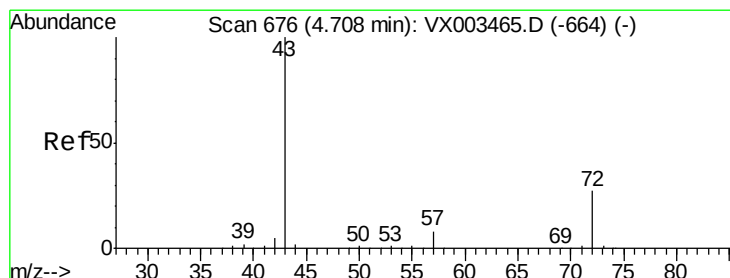
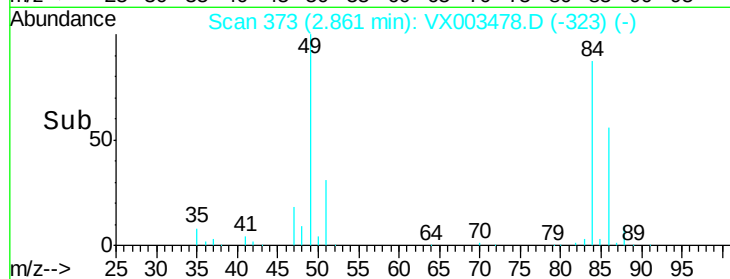
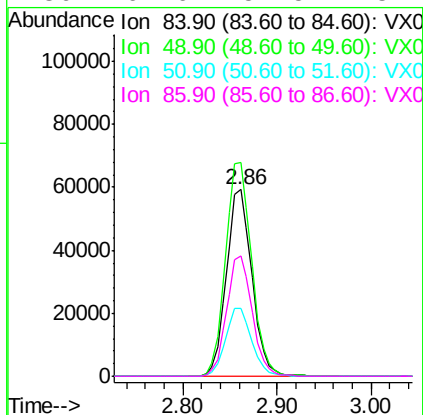
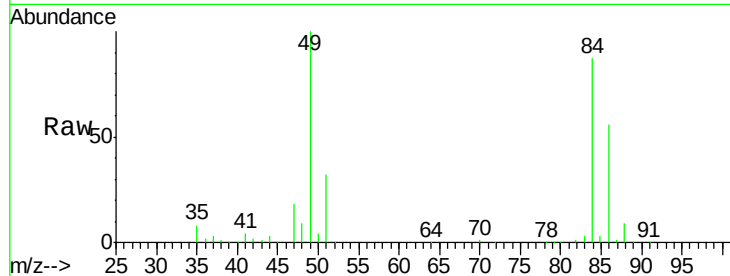




#20
Methvlene Chloride
Concen: 34.09 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX003478.D
Acq: 19 Jul 2018 22:21

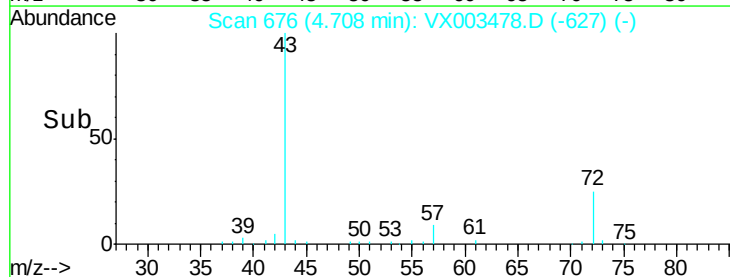
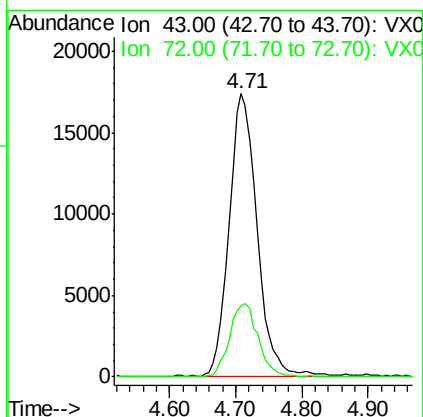
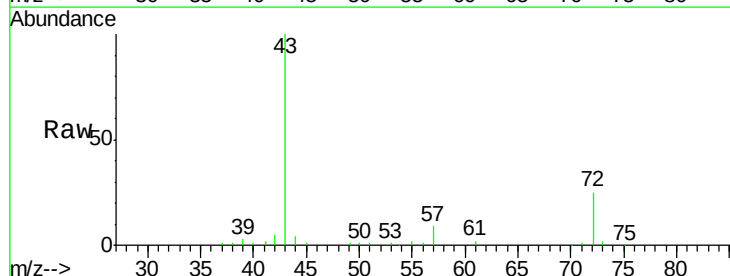
Instrument :
MSVOA_X
ClientSampleId :
LF1-EB-2018-1

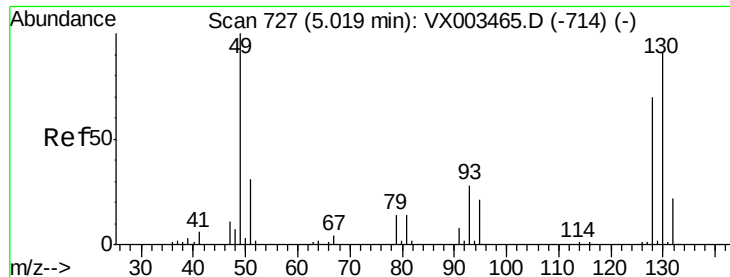
Tot Ion: 84 Resp: 111624
Ion Ratio Lower Upper
84 100
49 114.5 107.8 161.6
51 36.1 32.8 49.2
86 64.6 52.5 78.7



#25
2-Butanone
Concen: 22.98 ug/l
RT: 4.71 min Scan# 676
Delta R.T. -0.00 min
Lab File: VX003478.D
Acq: 19 Jul 2018 22:21

Tgt Ion: 43 Resp: 51210
Ion Ratio Lower Upper
43 100
72 25.0 18.5 27.7





#28

Bromochloromethane

Concen: 0.43 ug/l

RT: 5.17 min Scan# 751

Delta R.T. 0.15 min

Lab File: VX003478.D

Acq: 19 Jul 2018 22:21

Instrument :

MSVOA_X

ClientSampleId :

LF1-EB-2018-1

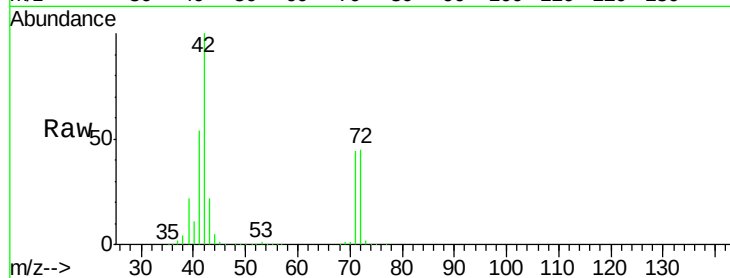
Tot Ion: 49 Resp: 1114

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.2

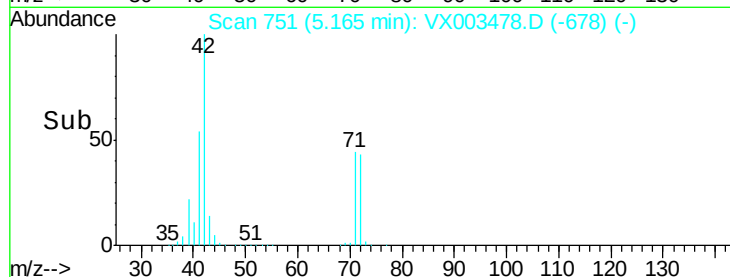
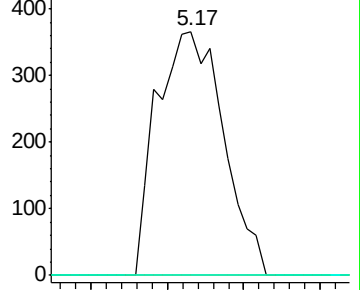
130 0.0 61.2 91.8#



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: 401.54 ug/l

RT: 5.17 min Scan# 752

Delta R.T. 0.01 min

Lab File: VX003478.D

Acq: 19 Jul 2018 22:21

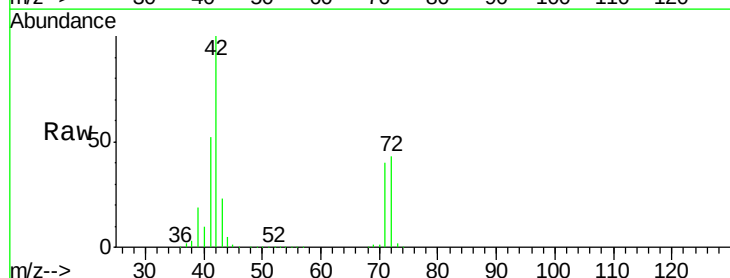
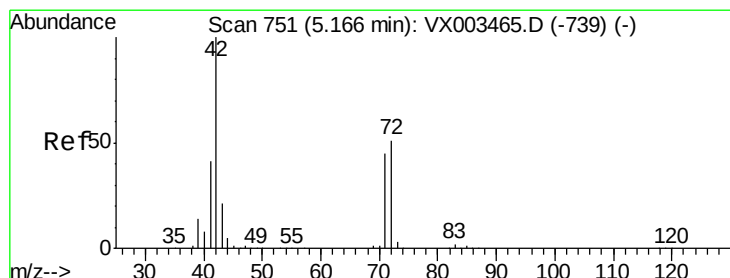
Tgt Ion: 42 Resp: 591128

Ion Ratio Lower Upper

42 100

72 44.8 32.0 48.0

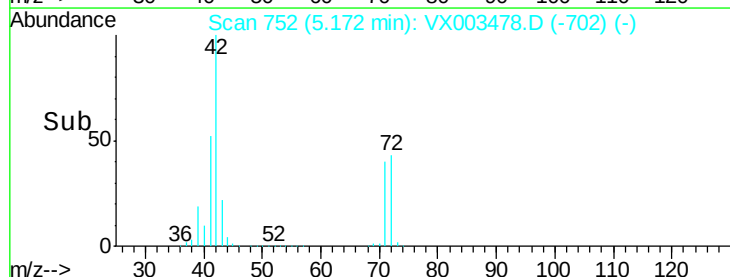
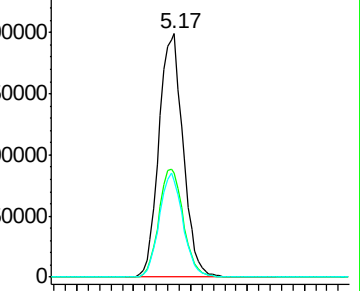
71 41.6 30.1 45.1

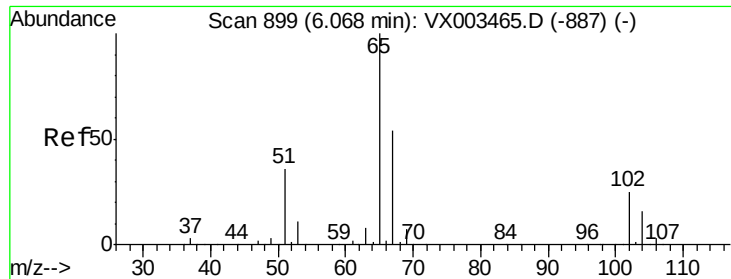


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

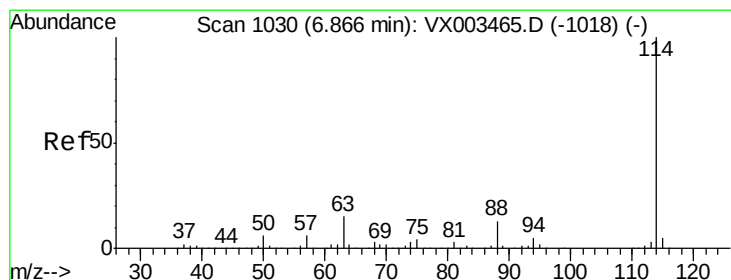
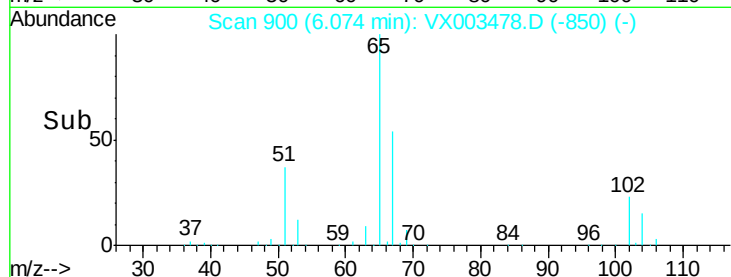
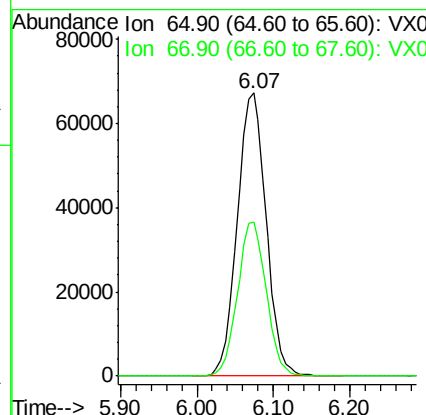
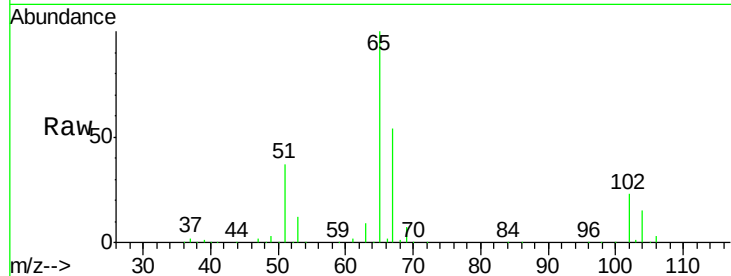




#33
 1,2-Dichloroethane-d4
 Concen: 50.01 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.01 min
 Lab File: VX003478.D
 Acq: 19 Jul 2018 22:21

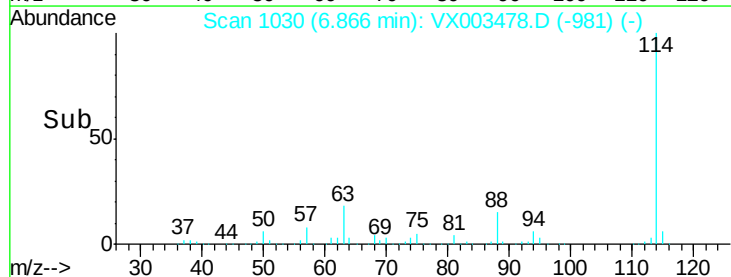
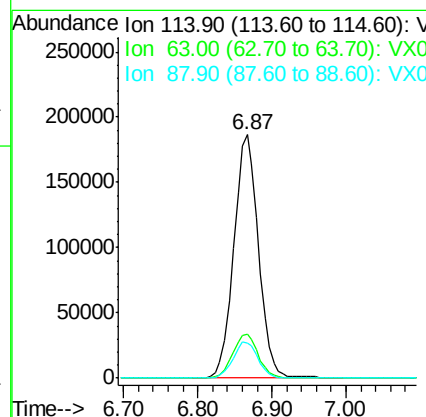
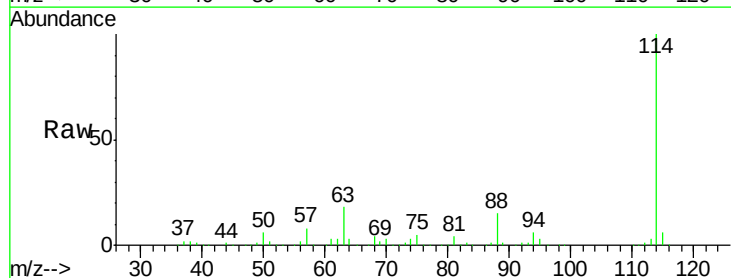
Instrument :
 MSVOA_X
 ClientSampleId :
 LF1-EB-2018-1

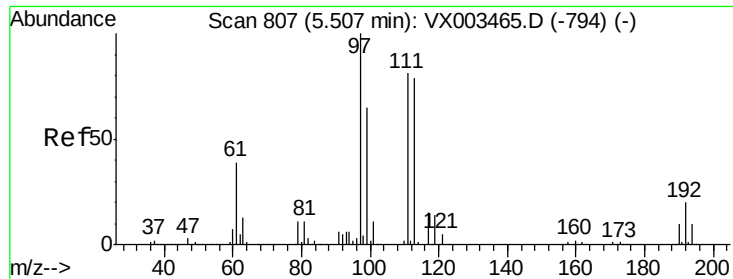
Tot Ion: 65 Resp: 175846
 Ion Ratio Lower Upper
 65 100
 67 54.3 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX003478.D
 Acq: 19 Jul 2018 22:21

Tgt Ion: 114 Resp: 431583
 Ion Ratio Lower Upper
 114 100
 63 18.2 0.0 41.4
 88 14.6 0.0 30.0

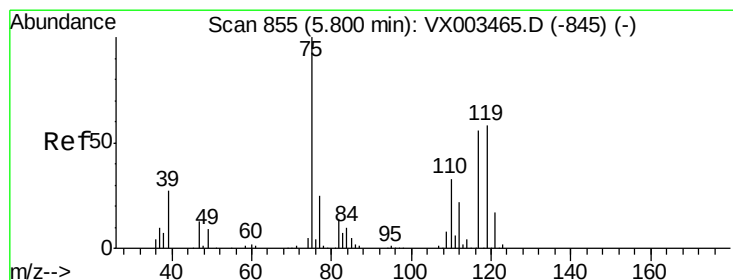
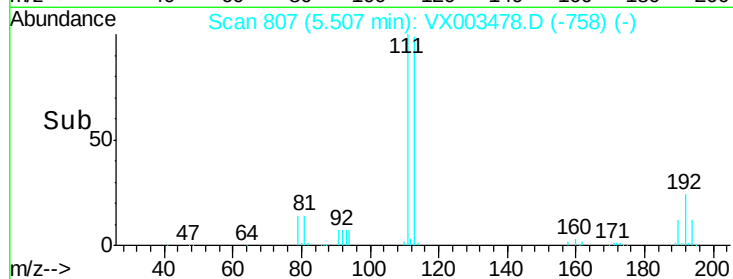
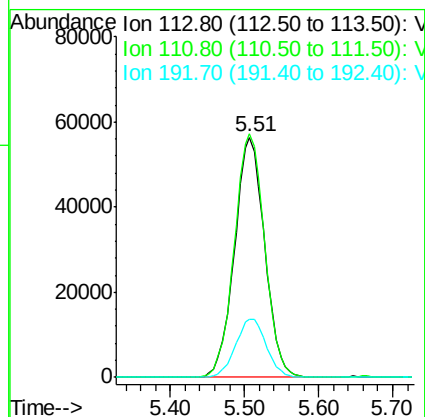
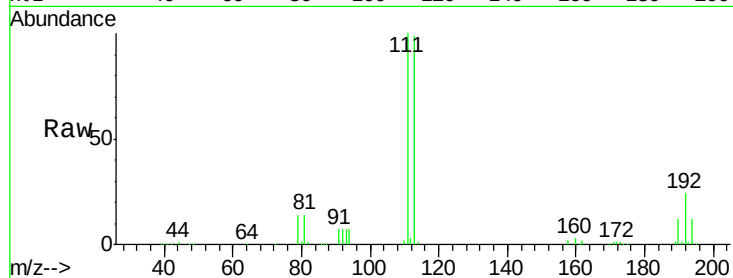




#35
 Dibromofluoromethane
 Concen: 48.52 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. -0.00 min
 Lab File: VX003478.D
 Acq: 19 Jul 2018 22:21

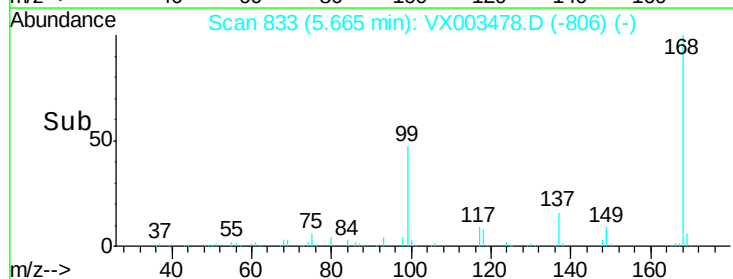
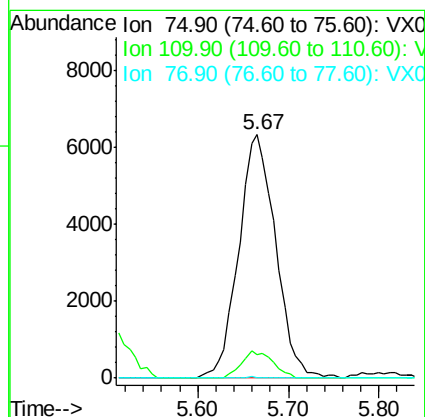
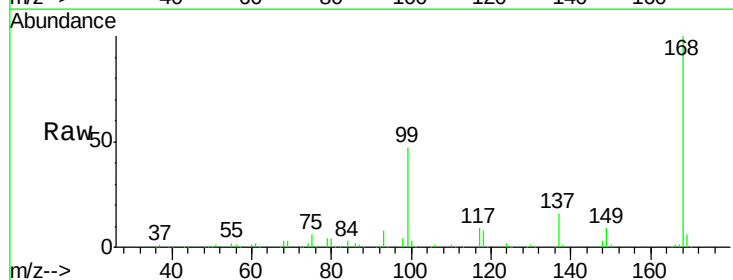
Instrument :
 MSVOA_X
 ClientSampleId :
 LF1-EB-2018-1

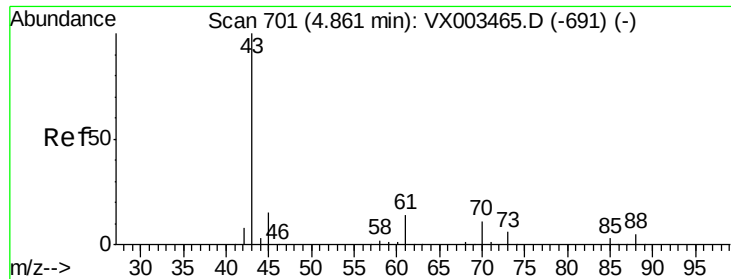
Tot Ion:113 Resp: 159510
 Ion Ratio Lower Upper
 113 100
 111 102.1 81.4 122.0
 192 24.8 19.1 28.7



#36
 1,1-Dichloropropene
 Concen: 3.82 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX003478.D
 Acq: 19 Jul 2018 22:21

Tgt Ion: 75 Resp: 17798
 Ion Ratio Lower Upper
 75 100
 110 9.6 18.1 54.4#
 77 0.1 24.3 36.5#





#37

Ethyl Acetate

Concen: 11.61 ug/l

RT: 4.71 min Scan# 676

Delta R.T. -0.15 min

Lab File: VX003478.D

Acq: 19 Jul 2018 22:21

Instrument :

MSVOA_X

ClientSampleId :

LF1-EB-2018-1

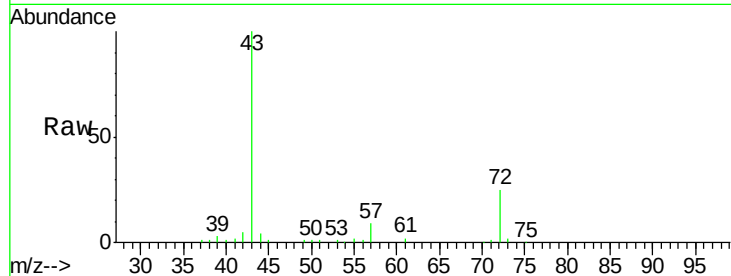
Tot Ion: 43 Resp: 51210

Ion Ratio Lower Upper

43 100

61 0.0 10.4 15.6#

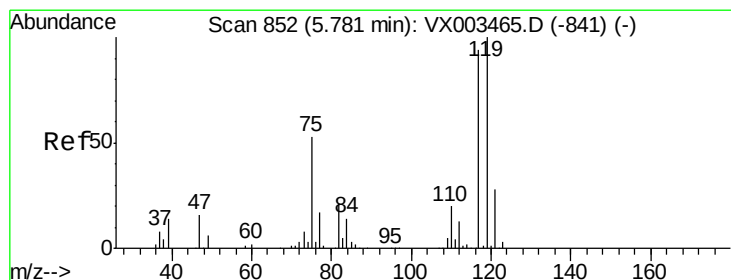
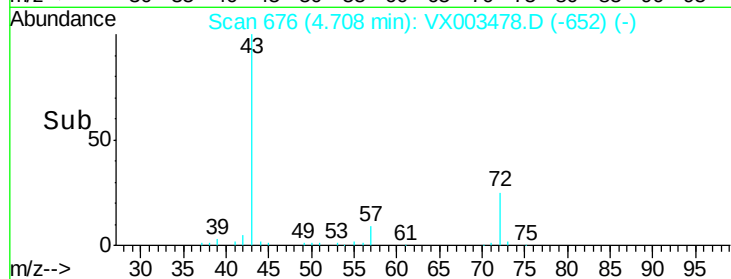
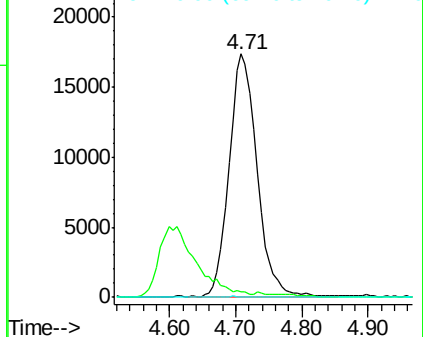
70 0.3 7.6 11.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0



#38

Carbon Tetrachloride

Concen: 5.50 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX003478.D

Acq: 19 Jul 2018 22:21

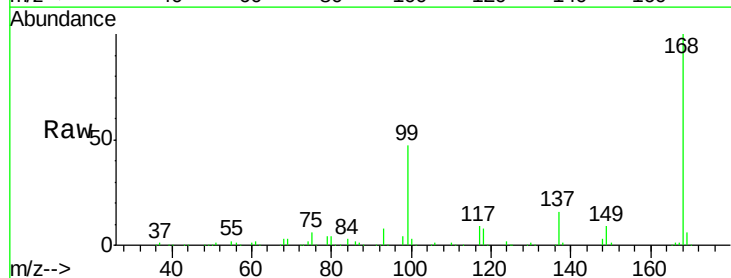
Tgt Ion: 117 Resp: 25152

Ion Ratio Lower Upper

117 100

119 5.0 77.4 116.0#

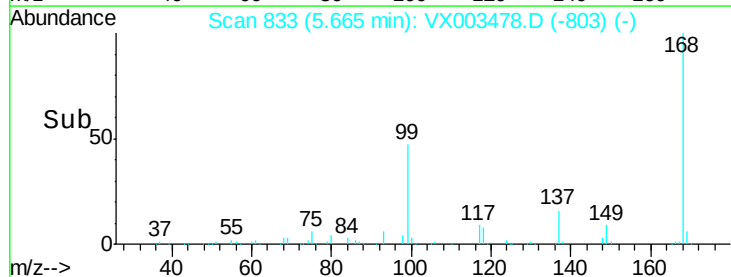
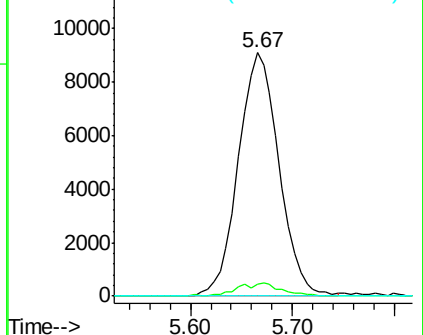
121 0.0 24.4 36.6#

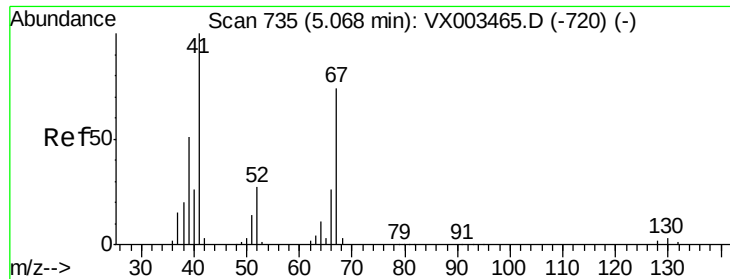


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

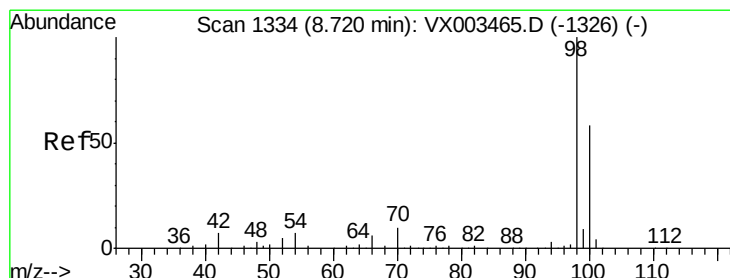
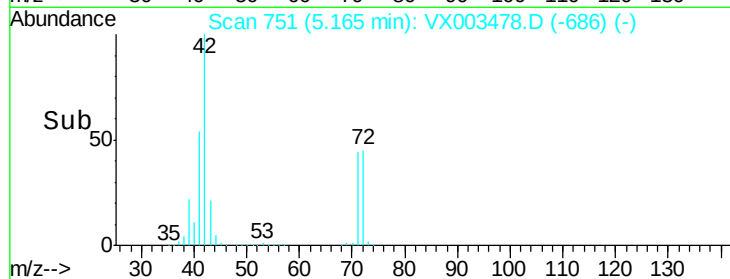
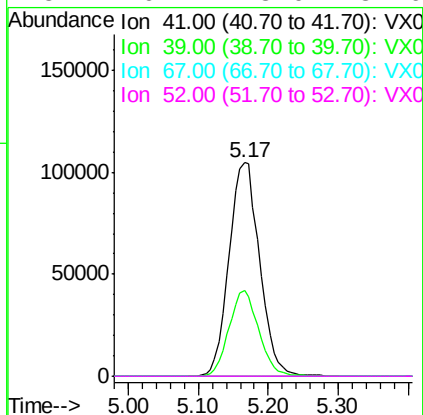
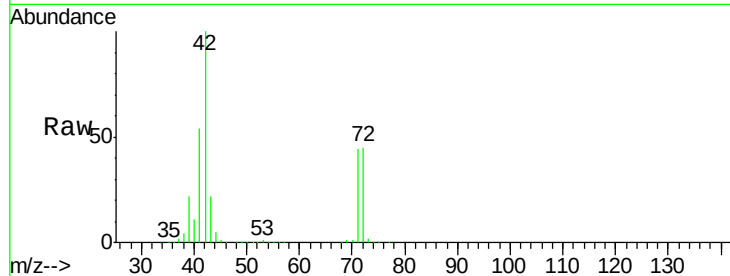




#41
Methacrylonitrile
Concen: 122.76 ug/l
RT: 5.17 min Scan# 751
Delta R.T. 0.10 min
Lab File: VX003478.D
Acq: 19 Jul 2018 22:21

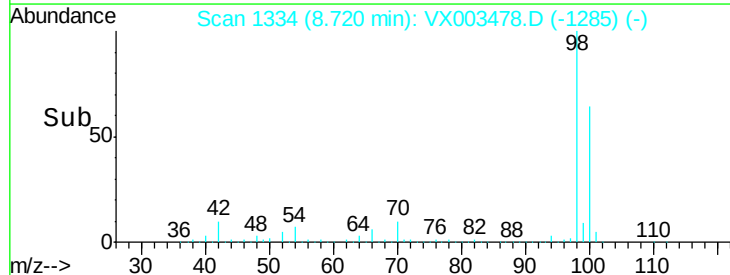
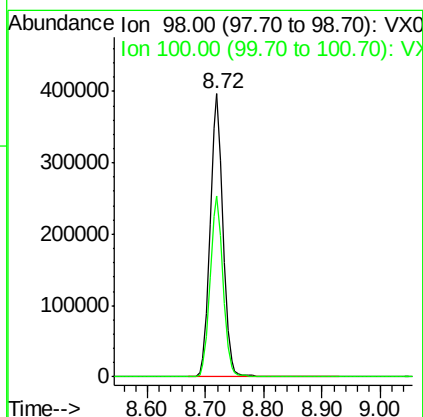
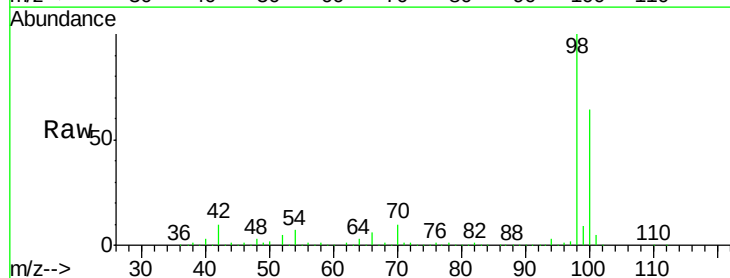
Instrument :
MSVOA_X
ClientSampleId :
LF1-EB-2018-1

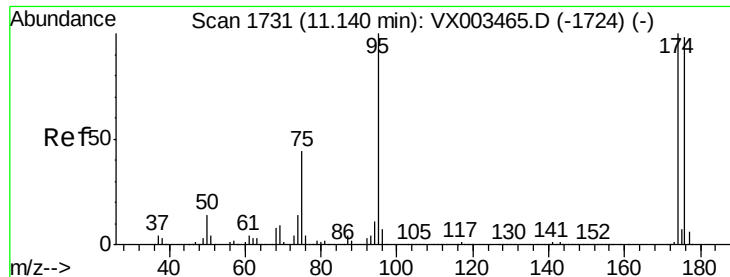
Tot Ion: 41 Resp: 318123
Ion Ratio Lower Upper
41 100
39 39.1 45.8 68.6#
67 0.0 51.3 76.9#
52 0.2 23.0 34.6#



#50
Toluene-d8
Concen: 49.36 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX003478.D
Acq: 19 Jul 2018 22:21

Tgt Ion: 98 Resp: 609860
Ion Ratio Lower Upper
98 100
100 64.3 50.9 76.3

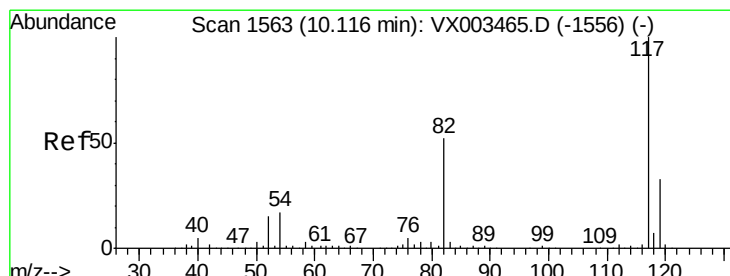
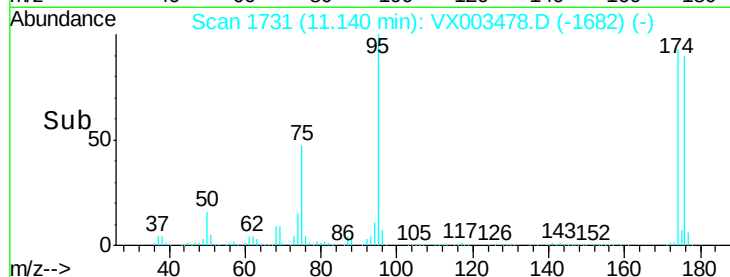
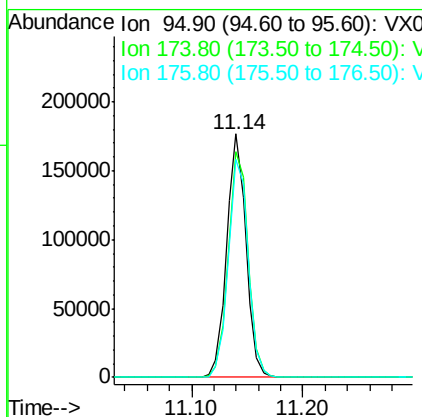
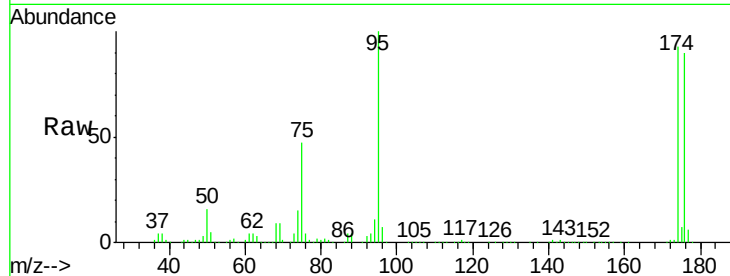




#62
4-Bromofluorobenzene
Concen: 46.88 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX003478.D
Acq: 19 Jul 2018 22:21

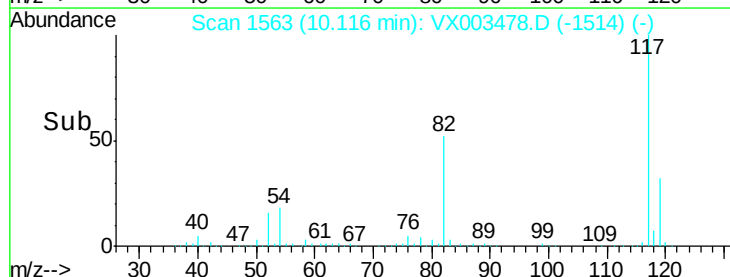
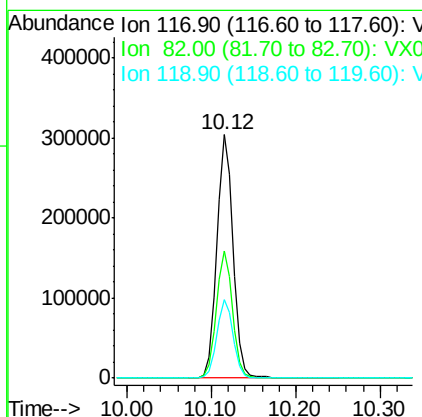
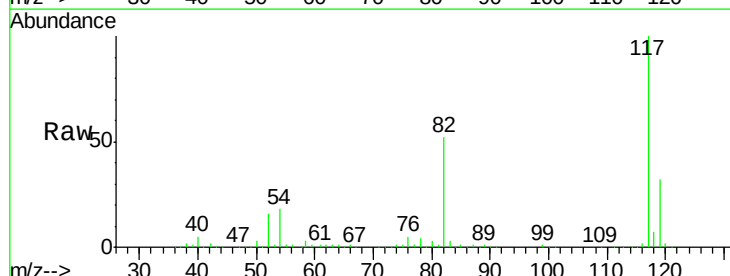
Instrument :
MSVOA_X
ClientSampleId :
LF1-EB-2018-1

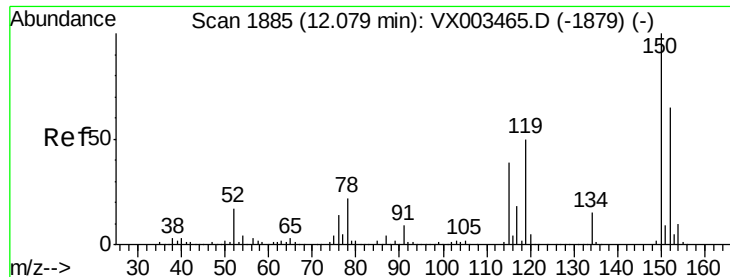
Tot Ion: 95 Resp: 211367
Ion Ratio Lower Upper
95 100
174 96.3 0.0 187.4
176 92.8 0.0 181.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX003478.D
Acq: 19 Jul 2018 22:21

Tgt Ion: 117 Resp: 406819
Ion Ratio Lower Upper
117 100
82 52.4 45.0 67.4
119 32.0 25.8 38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.00 min

Lab File: VX003478.D

Acq: 19 Jul 2018 22:21

Instrument :

MSVOA_X

ClientSampleId :

LF1-EB-2018-1

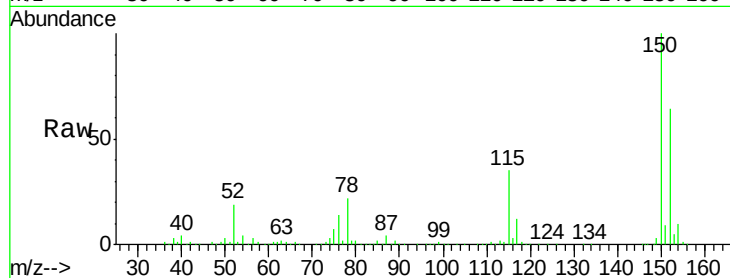
Tot Ion:152 Resp: 226134

Ion Ratio Lower Upper

152 100

115 53.6 40.1 120.2

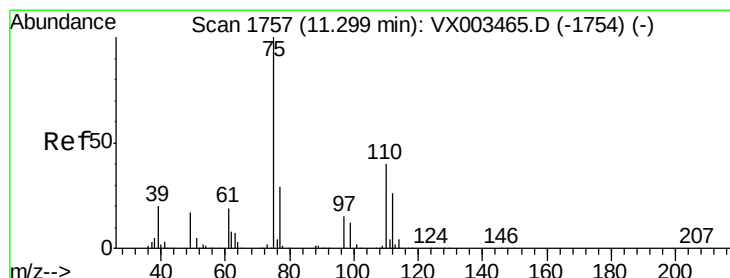
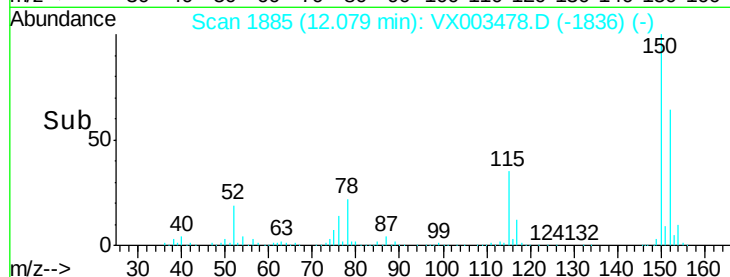
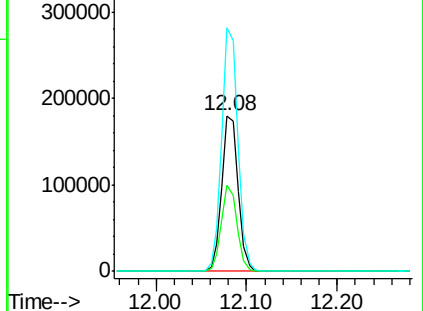
150 155.7 0.0 347.2



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: 24.47 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003478.D

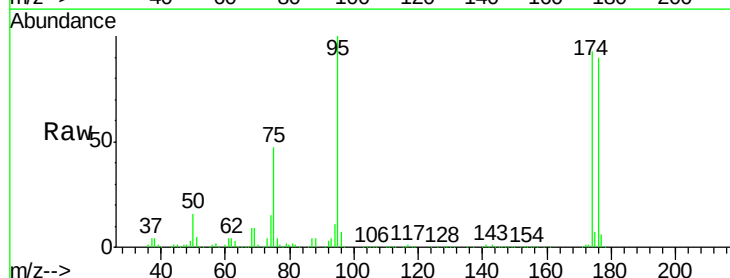
Acq: 19 Jul 2018 22:21

Tgt Ion: 75 Resp: 99424

Ion Ratio Lower Upper

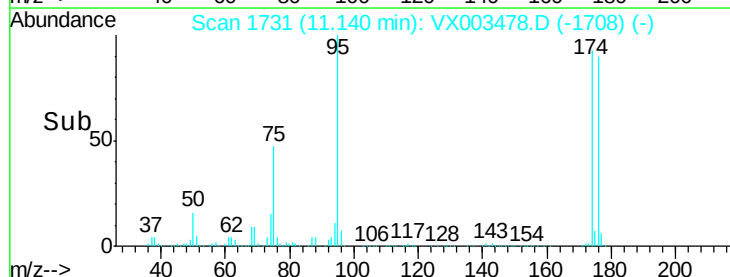
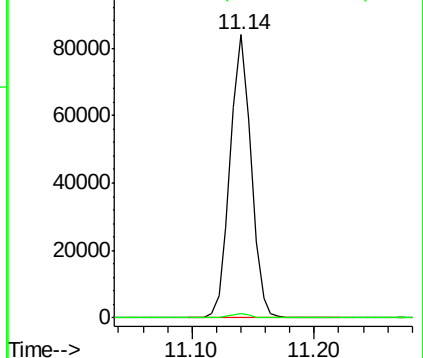
75 100

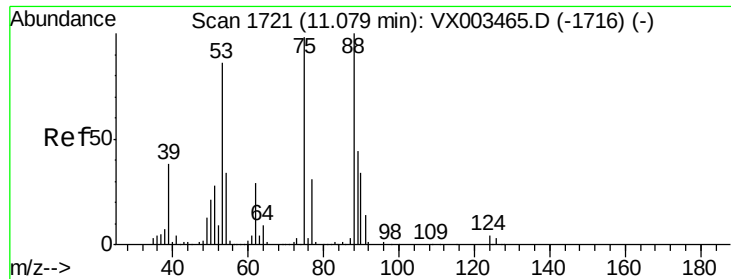
77 1.4 22.8 68.3#



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: 68.59 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003478.D

Acq: 19 Jul 2018 22:21

Instrument :

MSVOA_X

ClientSampleId :

LF1-EB-2018-1

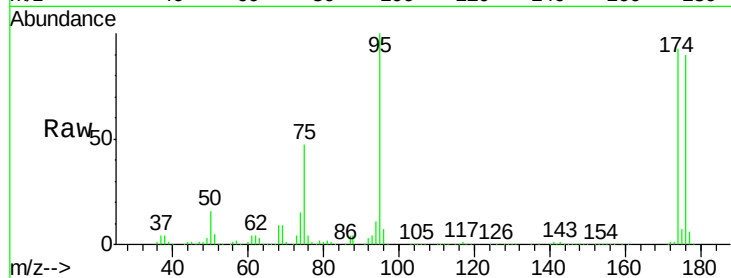
Tot Ion: 75 Resp: 99424

Ion Ratio Lower Upper

75 100

53 0.1 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

