

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060818\
 Data File : VX002401.D
 Acq On : 08 Jun 2018 14:57
 Operator : JC/MD
 Sample : J3340-07 4X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LF5-FB-2018-1DL

Quant Time: Jun 09 01:49:01 2018
 Quant Method : Z:\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	229985	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	330507	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	298518	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	163107	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	155637	47.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.24%	
35) Dibromofluoromethane	5.51	113	120015	46.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.36%	
50) Toluene-d8	8.72	98	470856	47.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.52%	
62) 4-Bromofluorobenzene	11.14	95	160577	41.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	83.60%	

Target Compounds

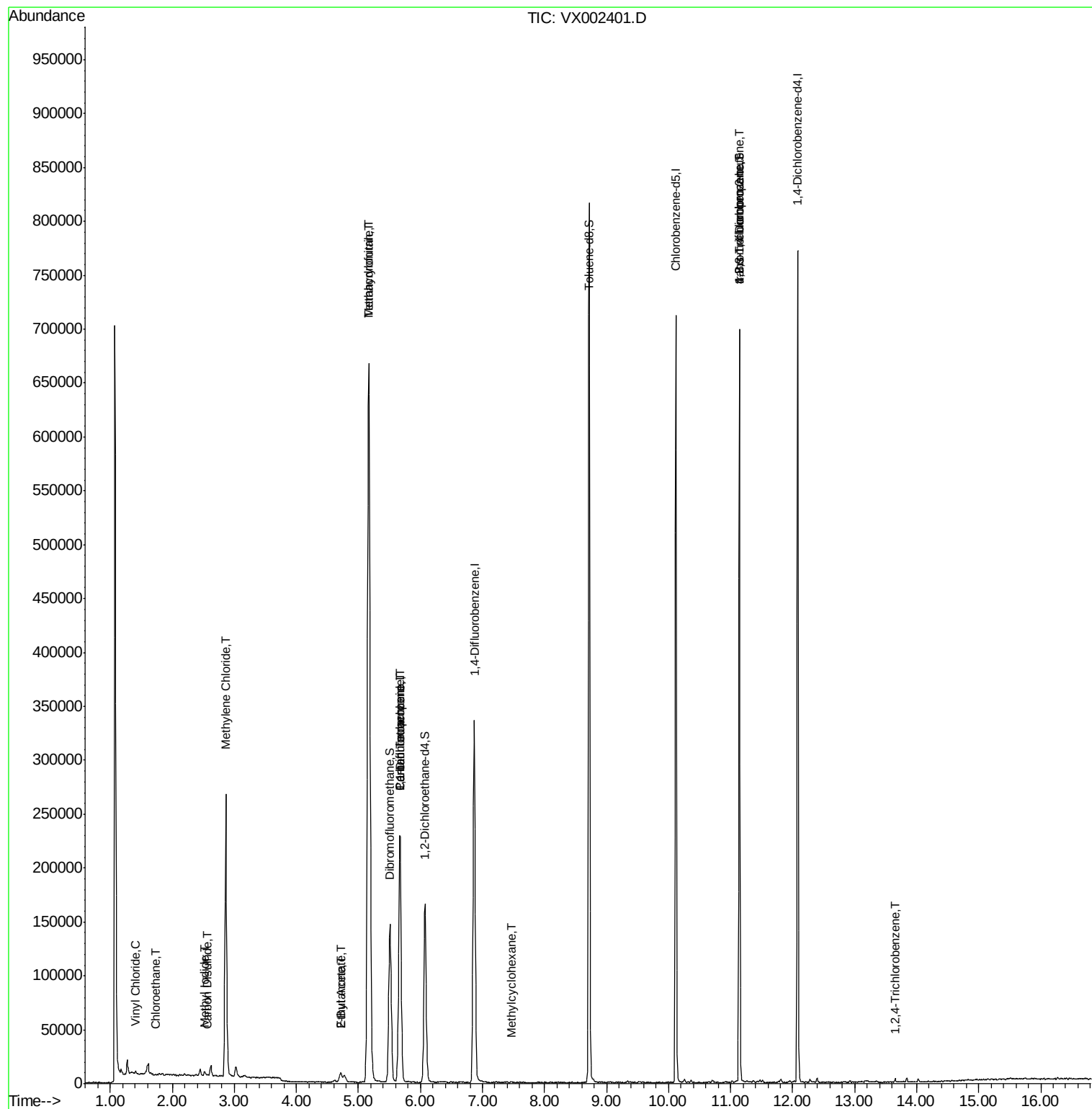
						Qvalue
3) Chloromethane	1.33	50	964	Below Cal		99
4) Vinyl Chloride	1.41	62	1089	0.36 ug/l	#	57
5) Bromomethane	1.65	94	1910	Below Cal		94
6) Chloroethane	1.73	64	1080	0.55 ug/l	#	59
8) Diethyl Ether	2.19	74	258	Below Cal		75
10) Methyl Iodide	2.52	142	3790	1.09 ug/l	#	94
11) Tert butyl alcohol	3.02	59	5447	Below Cal	#	81
13) Acrolein	2.30	56	225	Below Cal	#	83
15) Acrylonitrile	3.15	53	892	Below Cal	#	63
16) Acetone	2.45	43	6616	Below Cal		98
17) Carbon Disulfide	2.57	76	1718	0.27 ug/l	#	85
18) Methyl Acetate	2.78	43	681	Below Cal		92
19) Methyl tert-butyl Ether	3.20	73	120	Below Cal	#	9
20) Methylene Chloride	2.86	84	117473	44.89 ug/l		97
22) Diisopropyl ether	3.88	45	151	Below Cal	#	35
25) 2-Butanone	4.71	43	17289	7.67 ug/l		99
28) Bromochloromethane	5.01	49	261	Below Cal	#	61
29) Tetrahydrofuran	5.17	42	616644	424.14 ug/l		99
36) 1,1-Dichloropropene	5.67	75	16252	4.68 ug/l	#	52
37) Ethyl Acetate	4.71	43	17289	4.14 ug/l	#	70
38) Carbon Tetrachloride	5.67	117	21574	5.94 ug/l	#	16
39) Methylcyclohexane	7.47	83	248	0.32 ug/l	#	52
41) Methacrylonitrile	5.17	41	355770	148.73 ug/l	#	50
76) 1,2,3-Trichloropropane	11.14	75	86242	24.10 ug/l	#	33
81) trans-1,4-Dichloro-2-buten	11.14	75	86242	84.47 ug/l	#	6
93) 1,2,4-Trichlorobenzene	13.65	180	859	0.21 ug/l		86

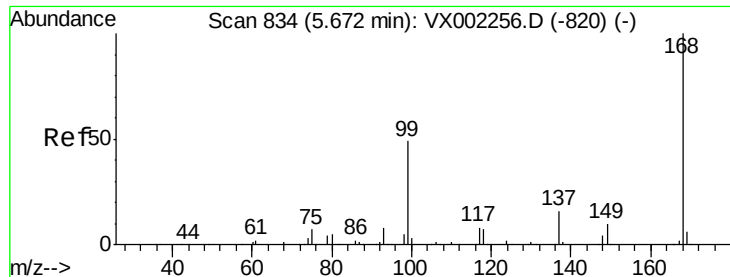
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
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Quant Time: Jun 09 01:49:01 2018
Quant Method : Z:\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# 833

Delta R.T. -0.01 min

Lab File: VX002401.D

Acq: 08 Jun 2018 14:57

Instrument :

MSVOA_X

ClientSampleId :

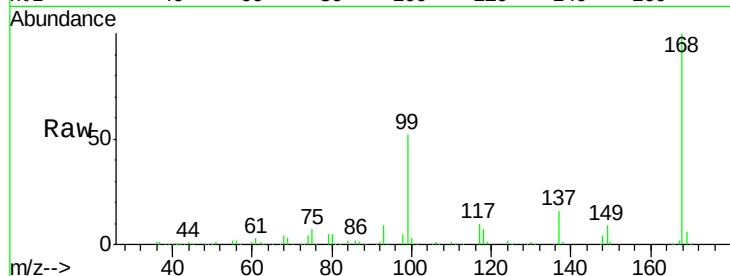
LF5-FB-2018-1DL

Tot Ion:168 Resp: 229985

Ion Ratio Lower Upper

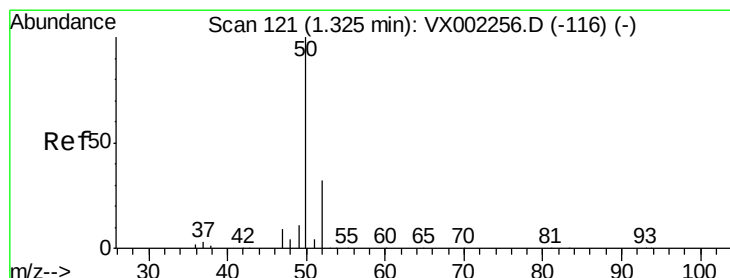
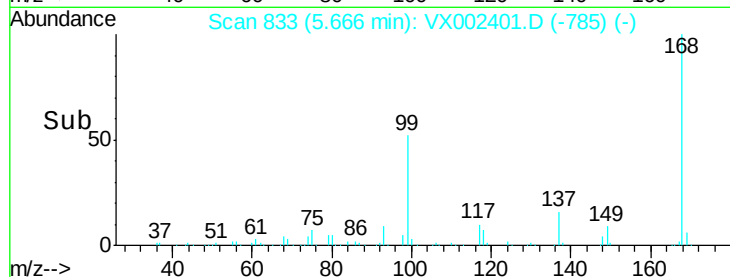
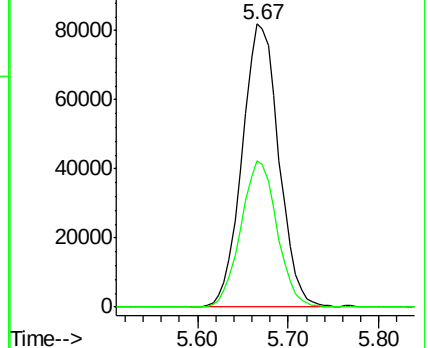
168 100

99 51.6 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: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX002401.D

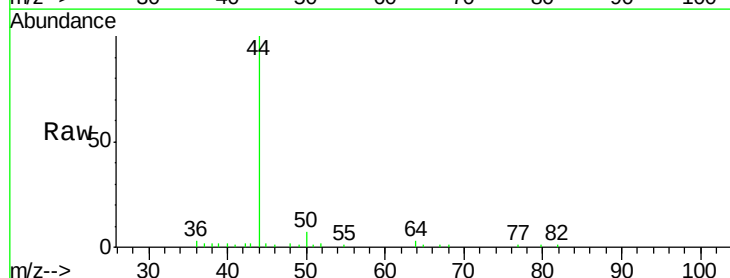
Acq: 08 Jun 2018 14:57

Tgt Ion: 50 Resp: 964

Ion Ratio Lower Upper

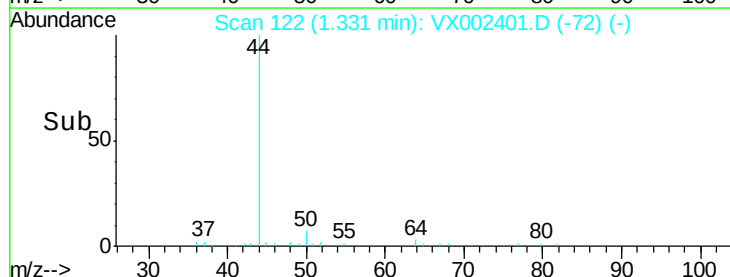
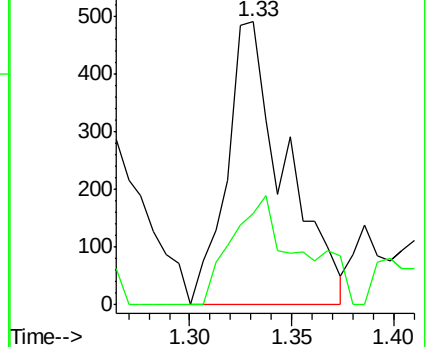
50 100

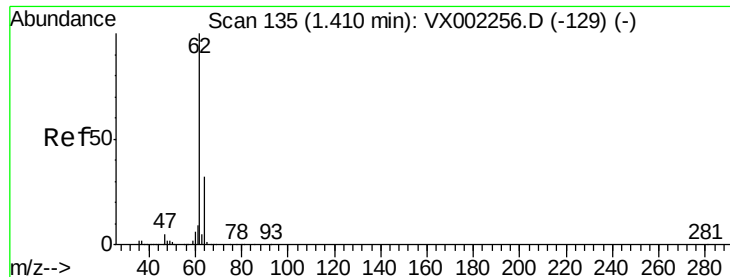
52 32.4 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#4

Vinyl Chloride

Concen: 0.36 ug/l

RT: 1.41 min Scan# 135

Delta R.T. -0.00 min

Lab File: VX002401.D

Acq: 08 Jun 2018 14:57

Instrument :

MSVOA_X

ClientSampleId :

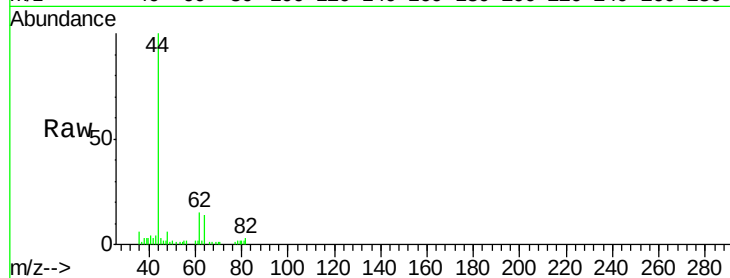
LF5-FB-2018-1DL

Tot Ion: 62 Resp: 1089

Ion Ratio Lower Upper

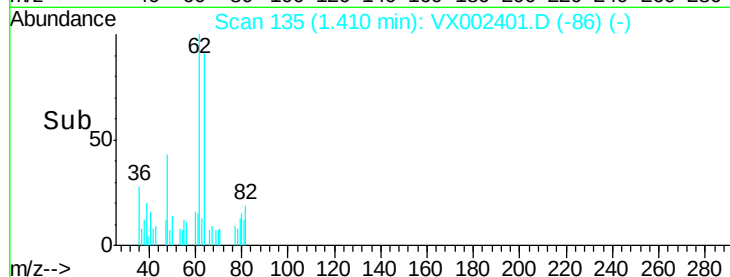
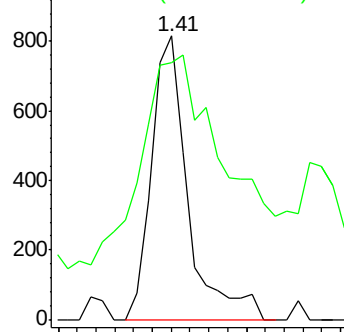
62 100

64 55.6 25.4 38.2#

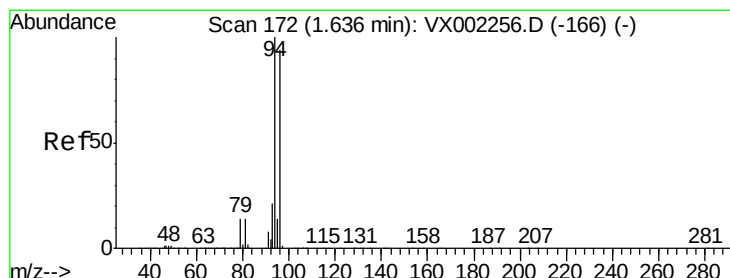


Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



Time-->



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX002401.D

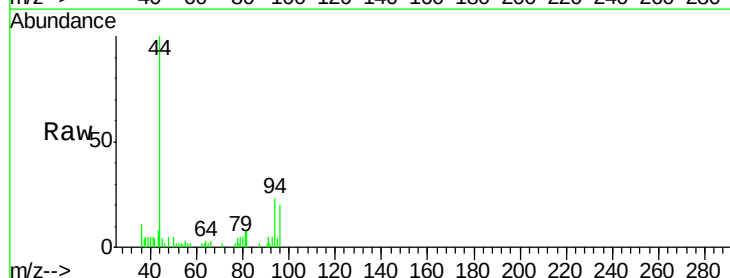
Acq: 08 Jun 2018 14:57

Tgt Ion: 94 Resp: 1910

Ion Ratio Lower Upper

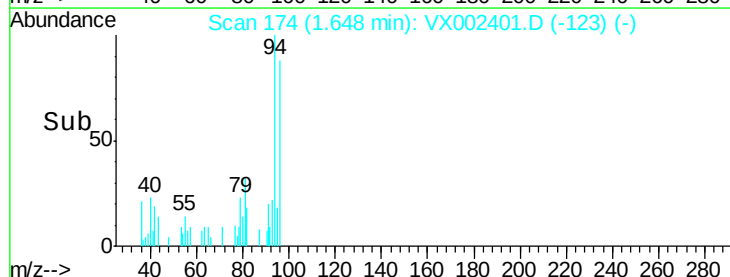
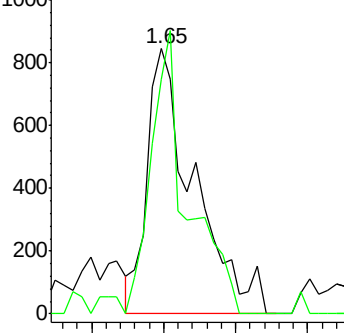
94 100

96 88.3 74.9 112.3

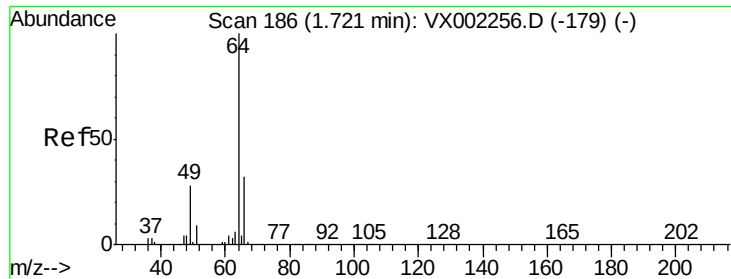


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time-->



#6

Chloroethane

Concen: 0.55 ug/l

RT: 1.73 min Scan# 187

Delta R.T. 0.01 min

Lab File: VX002401.D

Acq: 08 Jun 2018 14:57

Instrument :

MSVOA_X

ClientSampleId :

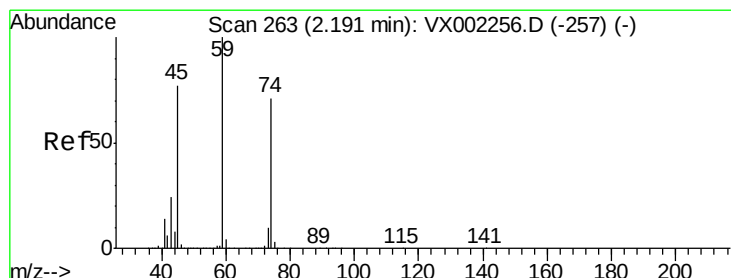
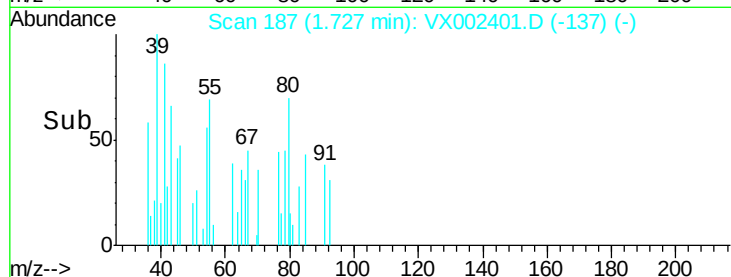
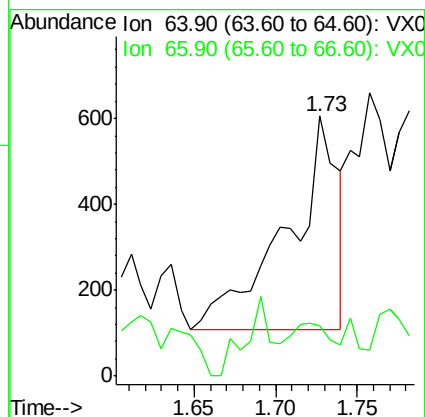
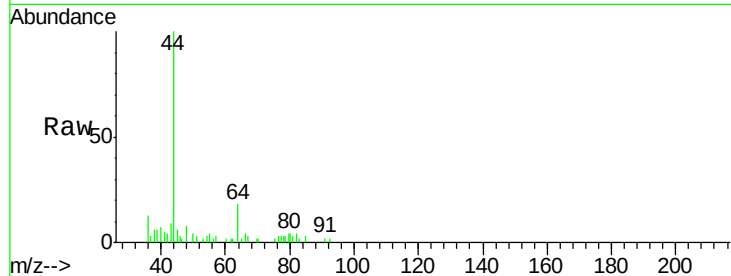
LF5-FB-2018-1DL

Tot Ion: 64 Resp: 1080

Ion Ratio Lower Upper

64 100

66 8.9 25.5 38.3#



#8

Diethyl Ether

Concen: Below Cal

RT: 2.19 min Scan# 263

Delta R.T. 0.00 min

Lab File: VX002401.D

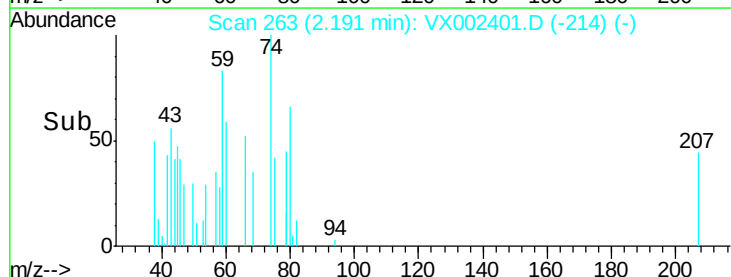
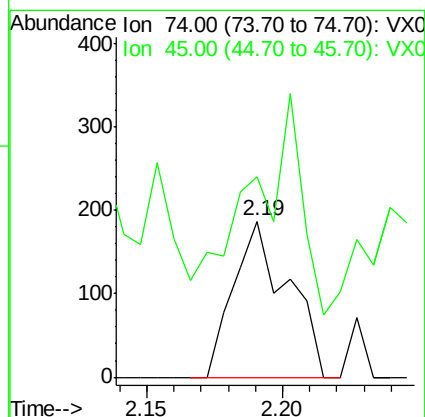
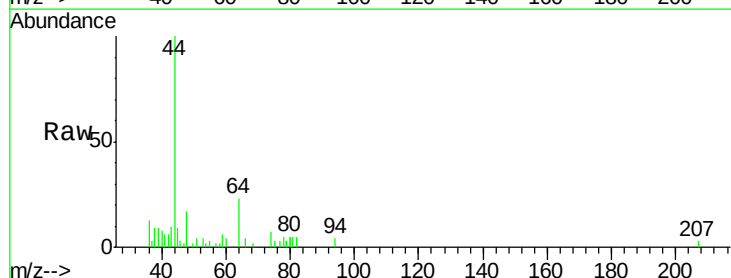
Acq: 08 Jun 2018 14:57

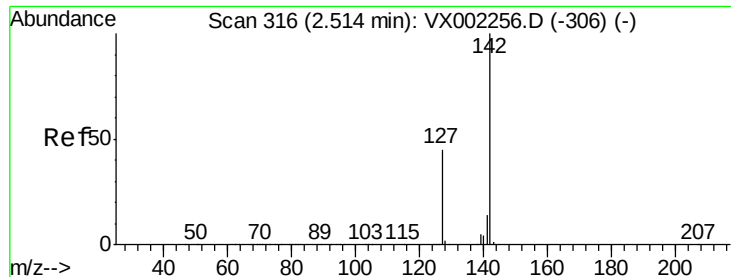
Tgt Ion: 74 Resp: 258

Ion Ratio Lower Upper

74 100

45 132.2 53.1 159.4

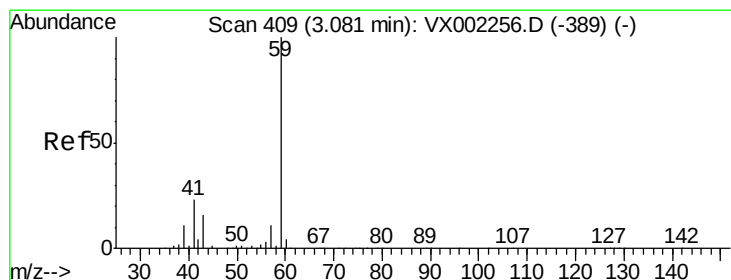
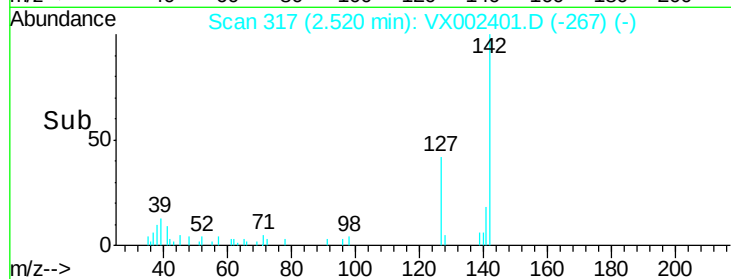
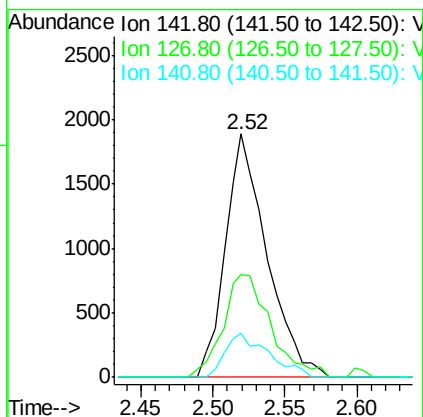
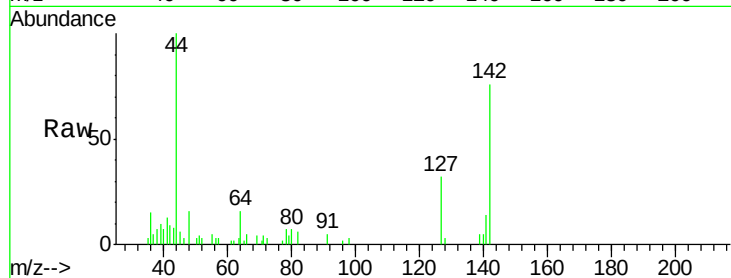




#10
Methvl Iodide
Concen: 1.09 ua/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX002401.D
Acq: 08 Jun 2018 14:57

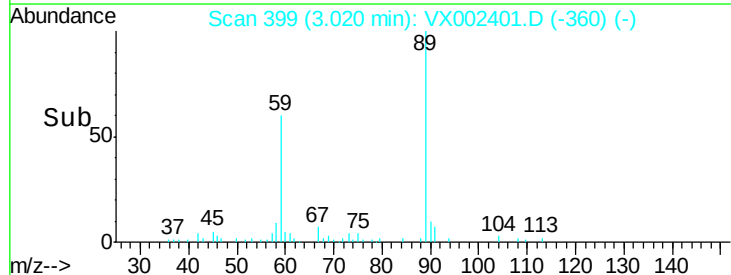
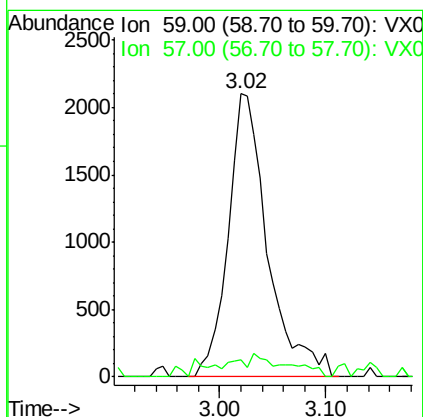
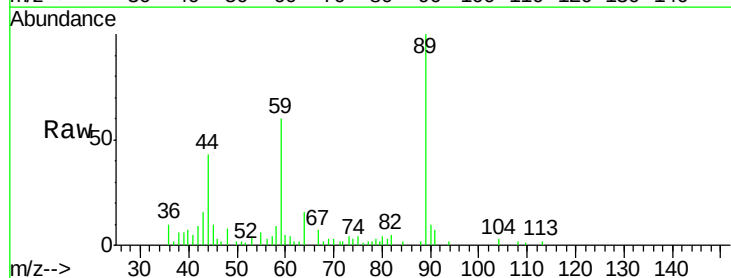
Instrument :
MSVOA_X
ClientSampleId :
LF5-FB-2018-1DL

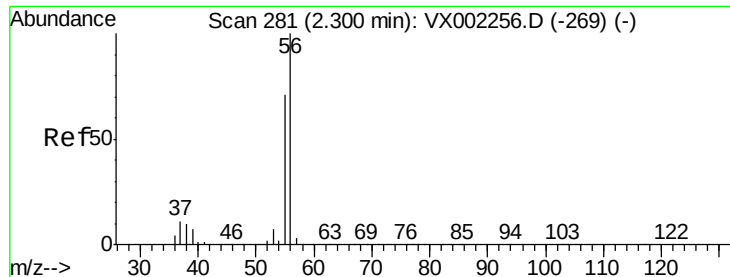
Tot Ion:142 Resp: 3790
Ion Ratio Lower Upper
142 100
127 48.3 36.6 55.0
141 18.8 11.3 16.9#



#11
Tert butyl alcohol
Concen: Below Cal
RT: 3.02 min Scan# 399
Delta R.T. -0.06 min
Lab File: VX002401.D
Acq: 08 Jun 2018 14:57

Tgt Ion: 59 Resp: 5447
Ion Ratio Lower Upper
59 100
57 3.0 8.2 12.2#





#13

Acrolein

Concen: Below Cal

RT: 2.30 min Scan# 281

Delta R.T. 0.00 min

Lab File: VX002401.D

Acq: 08 Jun 2018 14:57

Instrument :

MSVOA_X

ClientSampleId :

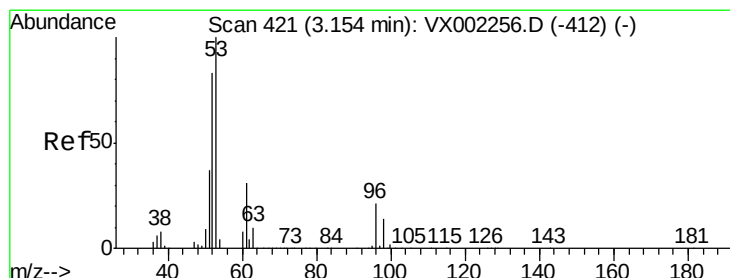
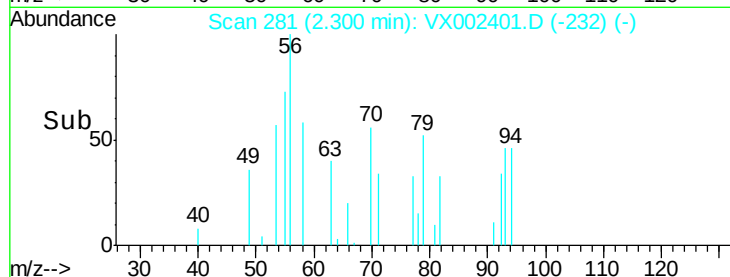
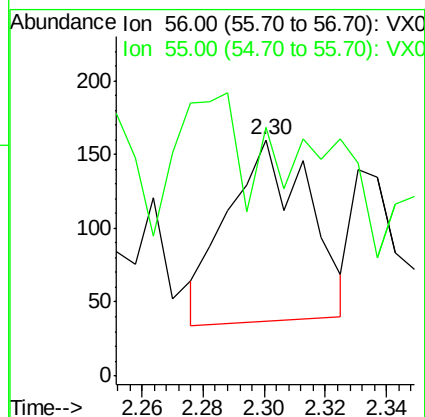
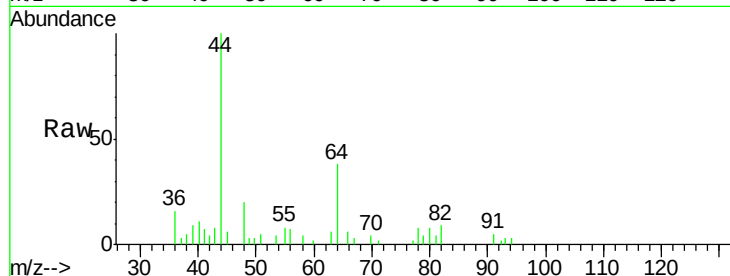
LF5-FB-2018-1DL

Tot Ion: 56 Resp: 225

Ion Ratio Lower Upper

56 100

55 56.9 57.0 85.4#



#15

Acrylonitrile

Concen: Below Cal

RT: 3.15 min Scan# 421

Delta R.T. 0.00 min

Lab File: VX002401.D

Acq: 08 Jun 2018 14:57

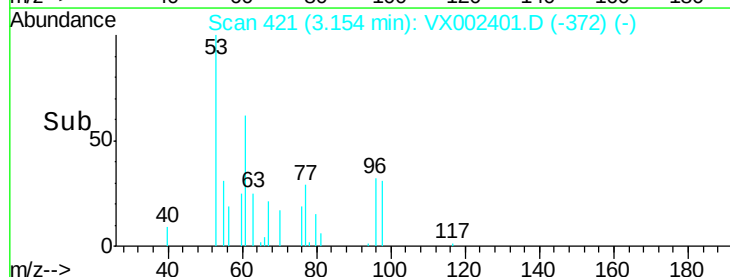
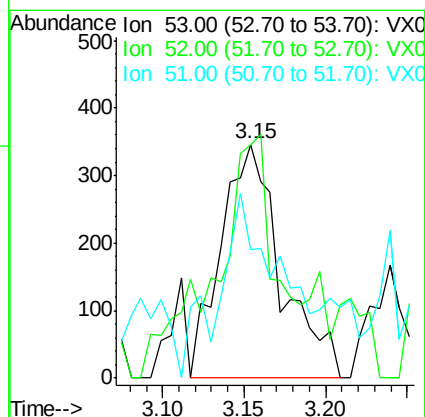
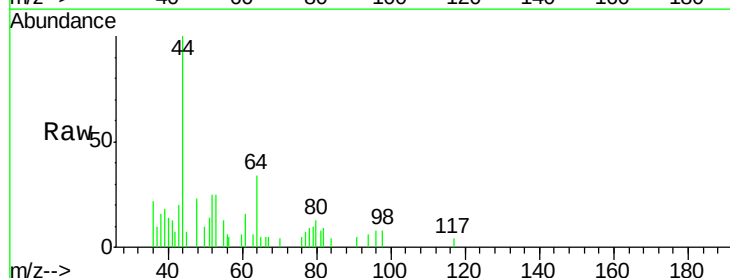
Tgt Ion: 53 Resp: 892

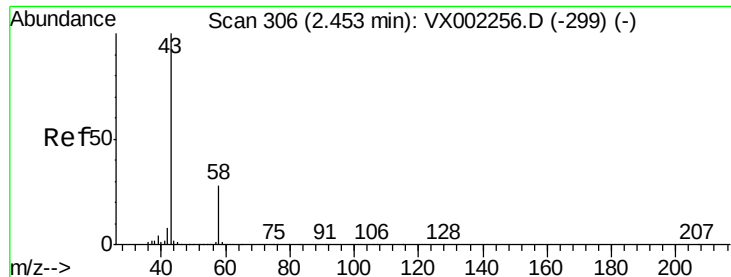
Ion Ratio Lower Upper

53 100

52 106.1 66.7 100.1#

51 0.0 29.9 44.9#





#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002401.D

Acq: 08 Jun 2018 14:57

Instrument :

MSVOA_X

ClientSampleId :

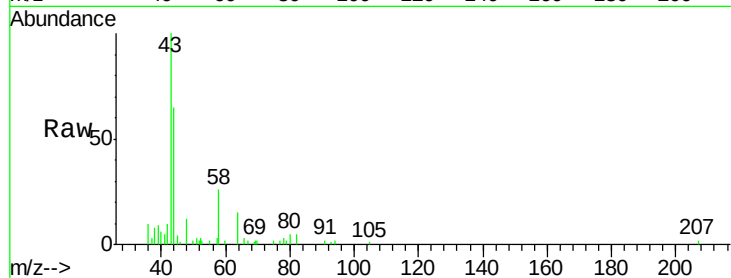
LF5-FB-2018-1DL

Tot Ion: 43 Resp: 6616

Ion Ratio Lower Upper

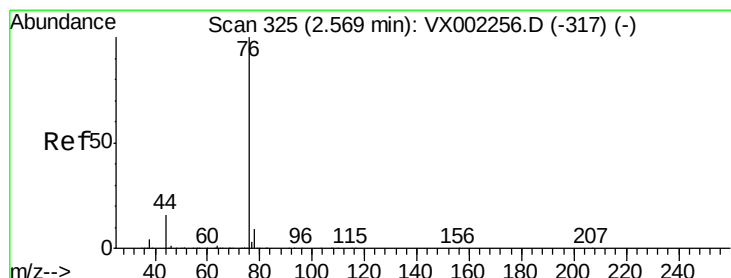
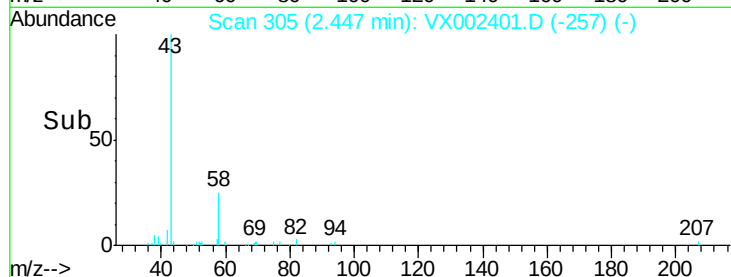
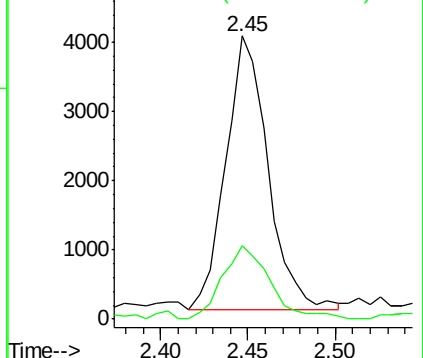
43 100

58 26.7 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 0.27 ug/l

RT: 2.57 min Scan# 326

Delta R.T. 0.01 min

Lab File: VX002401.D

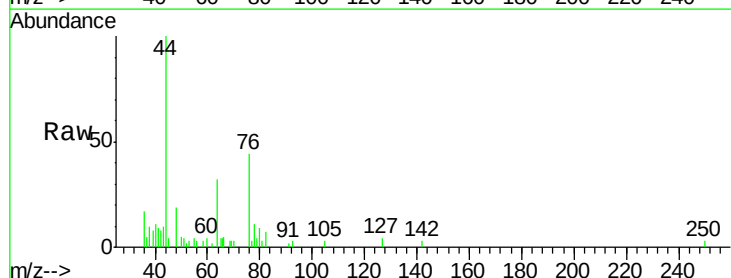
Acq: 08 Jun 2018 14:57

Tgt Ion: 76 Resp: 1718

Ion Ratio Lower Upper

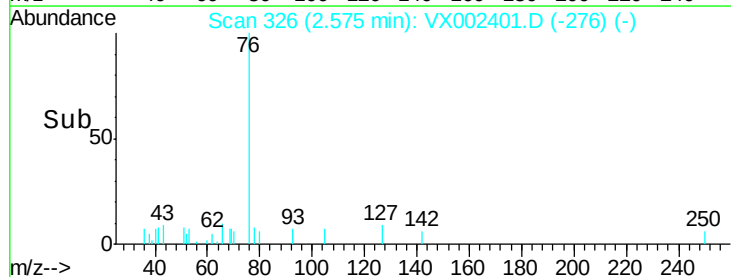
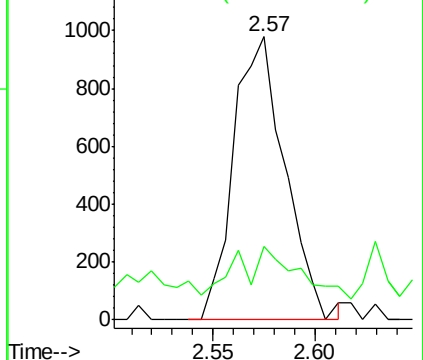
76 100

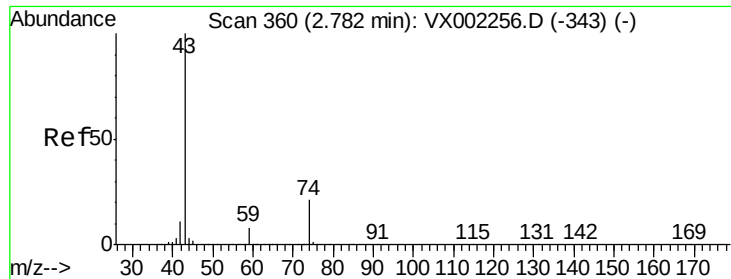
78 13.8 6.9 10.3#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

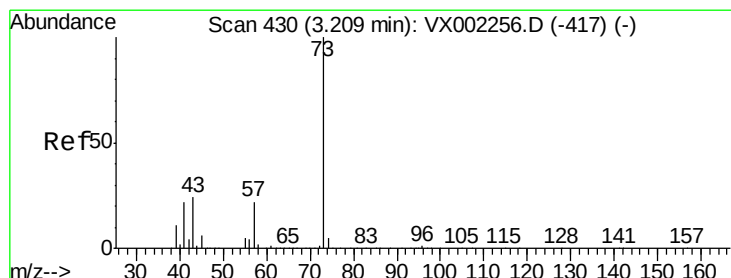
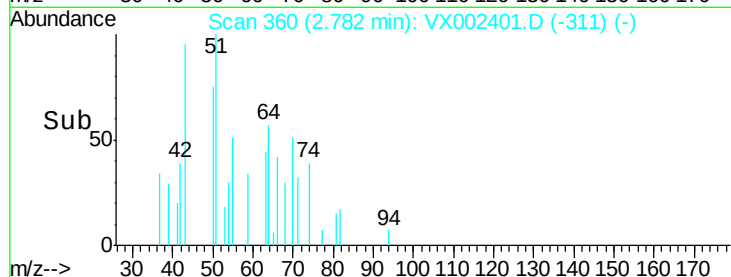
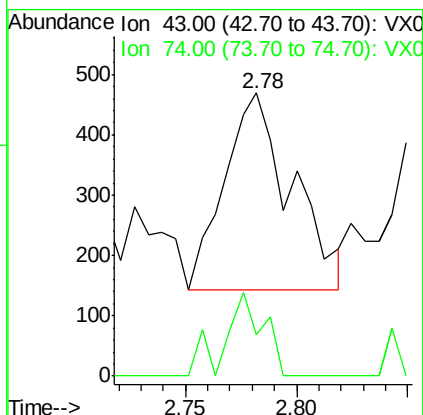
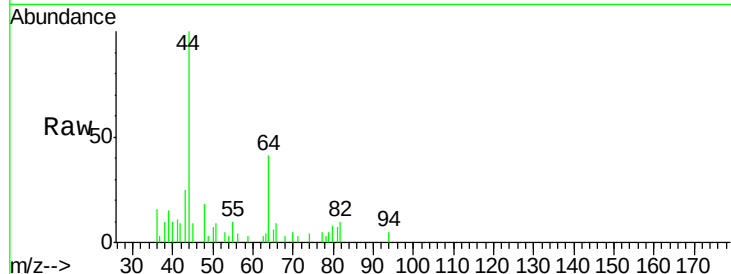




#18
Methyl Acetate
Concen: Below Cal
RT: 2.78 min Scan# 360
Delta R.T. -0.00 min
Lab File: VX002401.D
Acq: 08 Jun 2018 14:57

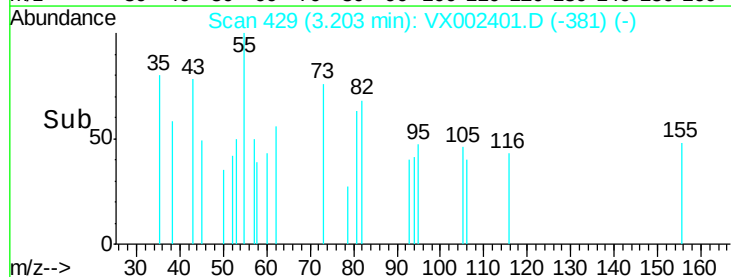
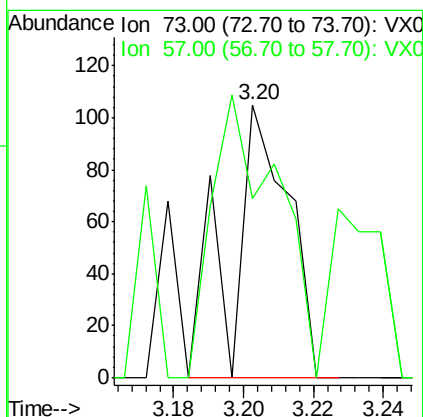
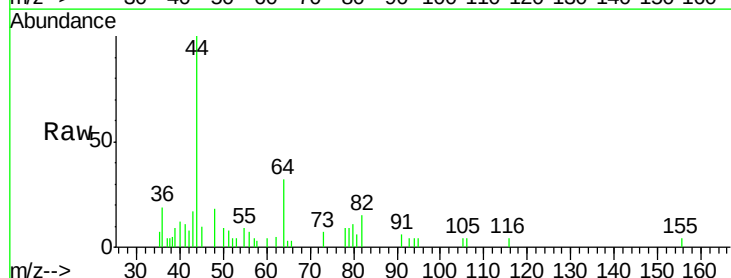
Instrument :
MSVOA_X
ClientSampled :
LF5-FB-2018-1DL

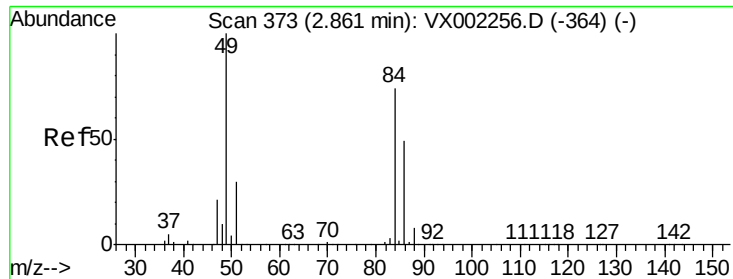
Tot Ion: 43 Resp: 681
Ion Ratio Lower Upper
43 100
74 24.5 16.7 25.1



#19
Methyl tert-butyl Ether
Concen: Below Cal
RT: 3.20 min Scan# 429
Delta R.T. -0.01 min
Lab File: VX002401.D
Acq: 08 Jun 2018 14:57

Tgt Ion: 73 Resp: 120
Ion Ratio Lower Upper
73 100
57 65.7 17.7 26.5#

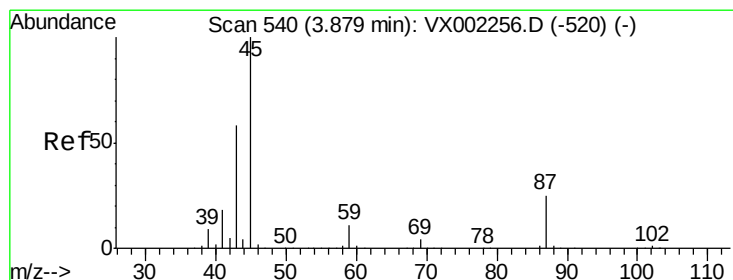
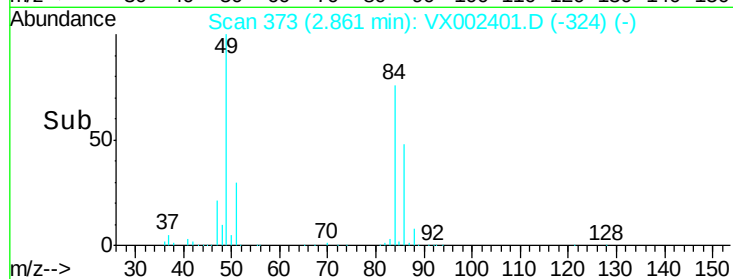
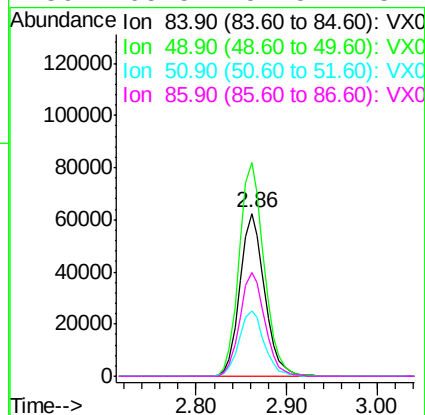
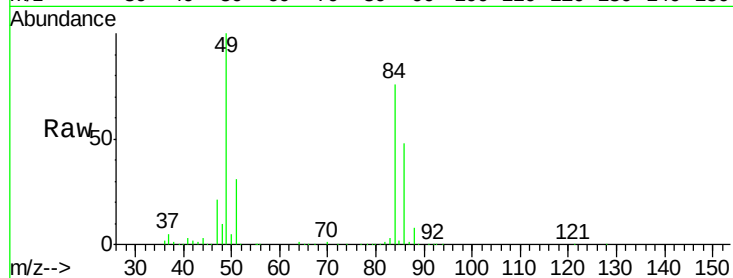




#20
Methylene Chloride
Concen: 44.89 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX002401.D
Acq: 08 Jun 2018 14:57

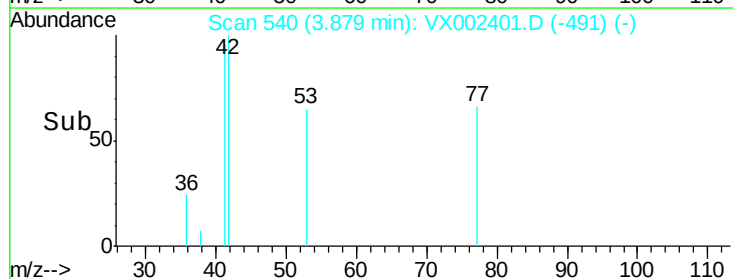
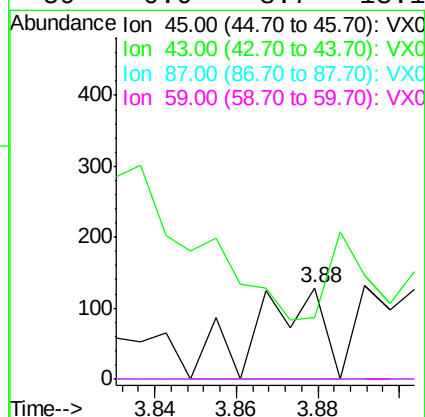
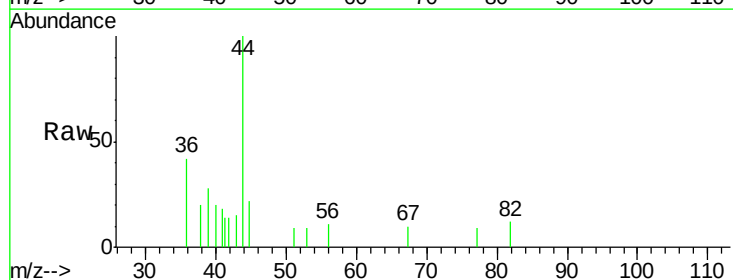
Instrument :
MSVOA_X
ClientSampleId :
LF5-FB-2018-1DL

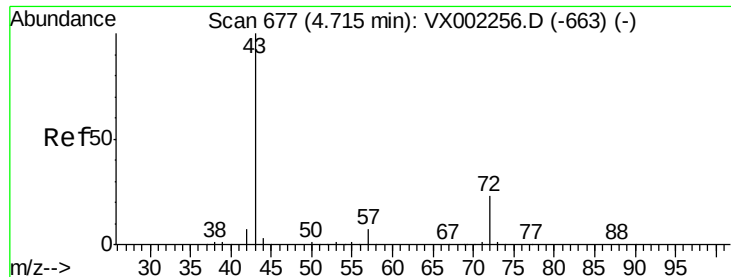
Tot Ion: 84 Resp: 117473
Ion Ratio Lower Upper
84 100
49 131.2 107.8 161.6
51 40.0 32.8 49.2
86 63.5 52.5 78.7



#22
Diisopropyl ether
Concen: Below Cal
RT: 3.88 min Scan# 540
Delta R.T. 0.00 min
Lab File: VX002401.D
Acq: 08 Jun 2018 14:57

Tgt Ion: 45 Resp: 151
Ion Ratio Lower Upper
45 100
43 0.0 46.8 70.2#
87 0.0 20.2 30.4#
59 0.0 8.7 13.1#





#25

2-Butanone

Concen: 7.67 ug/l

RT: 4.71 min Scan# 677

Delta R.T. -0.00 min

Lab File: VX002401.D

Acq: 08 Jun 2018 14:57

Instrument :

MSVOA_X

ClientSampleId :

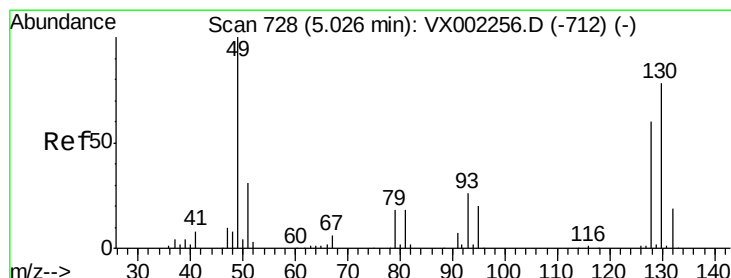
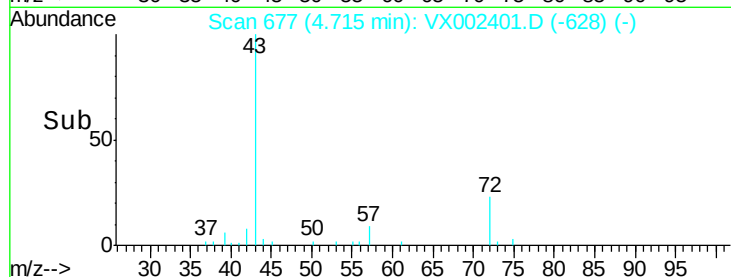
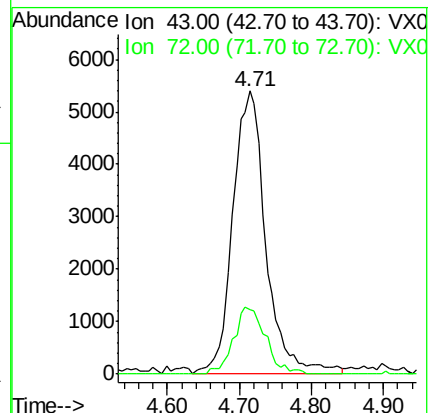
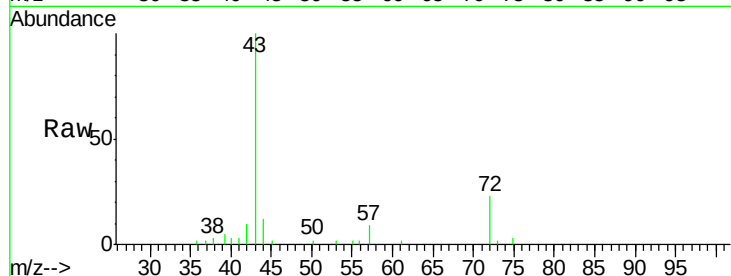
LF5-FB-2018-1DL

Tot Ion: 43 Resp: 17289

Ion Ratio Lower Upper

43 100

72 22.6 18.5 27.7



#28

Bromochloromethane

Concen: Below Cal

RT: 5.01 min Scan# 726

Delta R.T. -0.01 min

Lab File: VX002401.D

Acq: 08 Jun 2018 14:57

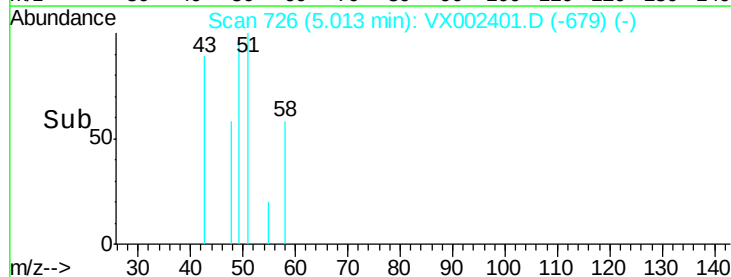
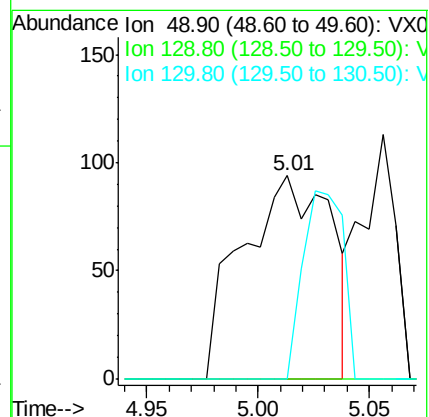
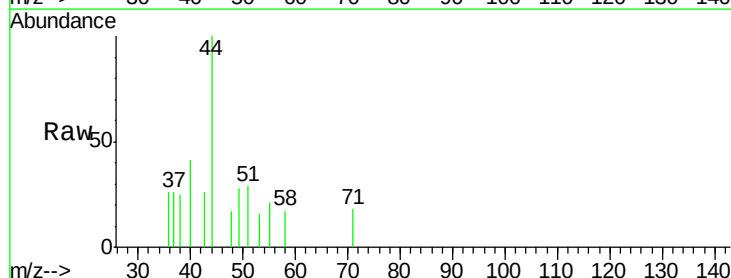
Tgt Ion: 49 Resp: 261

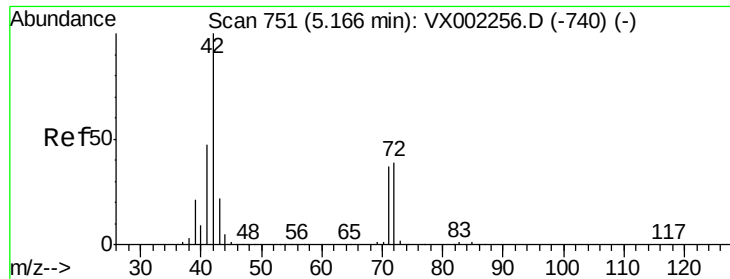
Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.2

130 41.8 61.2 91.8#

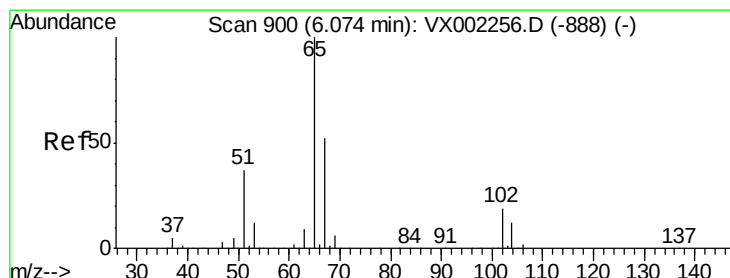
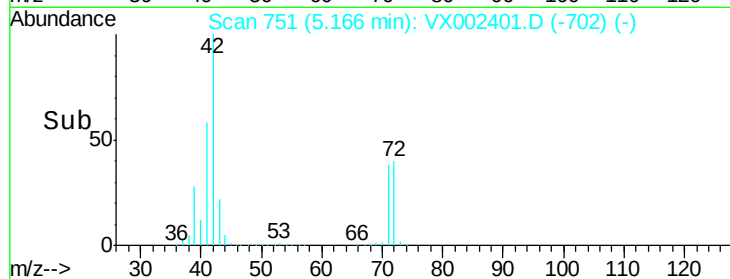
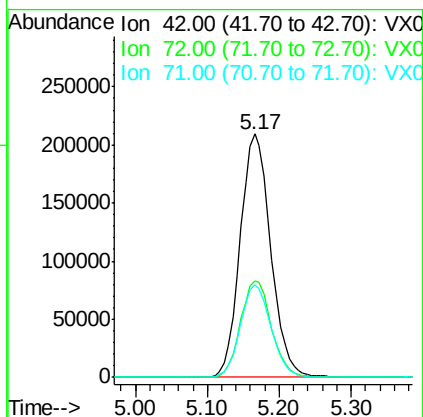
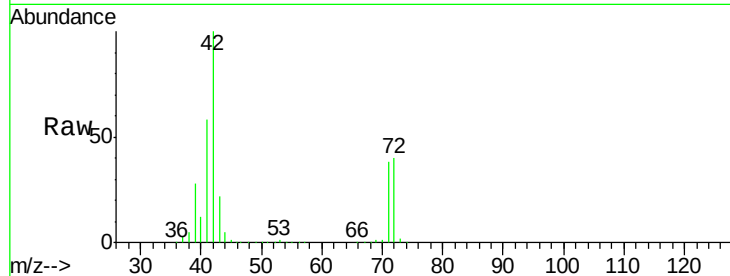




#29
Tetrahydrofuran
Concen: 424.14 ug/l
RT: 5.17 min Scan# 751
Delta R.T. -0.00 min
Lab File: VX002401.D
Acq: 08 Jun 2018 14:57

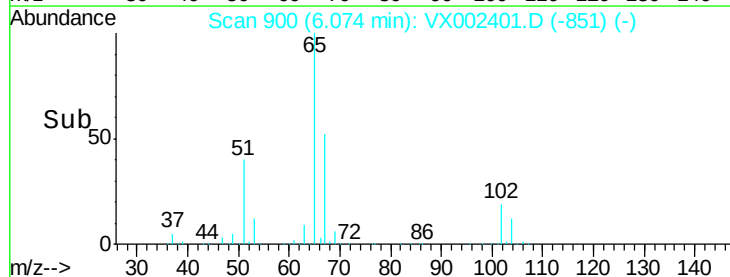
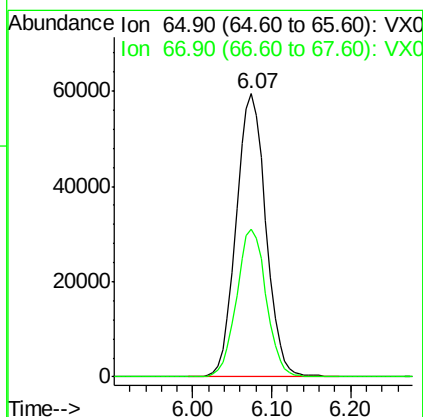
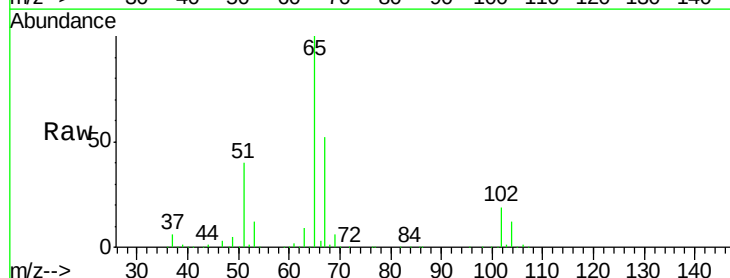
Instrument :
MSVOA_X
ClientSampleId :
LF5-FB-2018-1DL

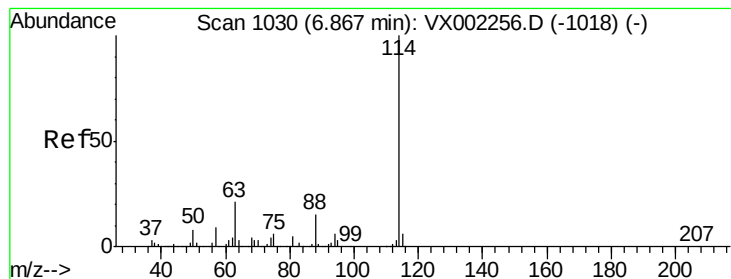
Tot Ion: 42 Resp: 616644
Ion Ratio Lower Upper
42 100
72 40.2 32.0 48.0
71 38.1 30.1 45.1



#33
1,2-Dichloroethane-d4
Concen: 47.12 ug/l
RT: 6.07 min Scan# 900
Delta R.T. 0.00 min
Lab File: VX002401.D
Acq: 08 Jun 2018 14:57

Tgt Ion: 65 Resp: 155637
Ion Ratio Lower Upper
65 100
67 52.0 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: VX002401.D

Acq: 08 Jun 2018 14:57

Instrument :

MSVOA_X

ClientSampleId :

LF5-FB-2018-1DL

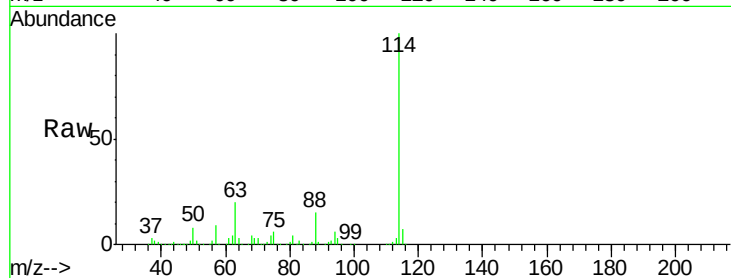
Tot Ion:114 Resp: 330507

Ion Ratio Lower Upper

114 100

63 20.3 0.0 41.4

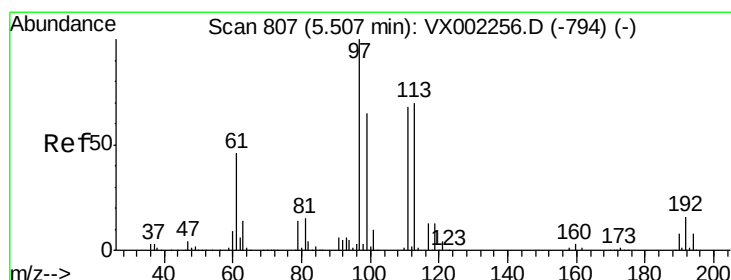
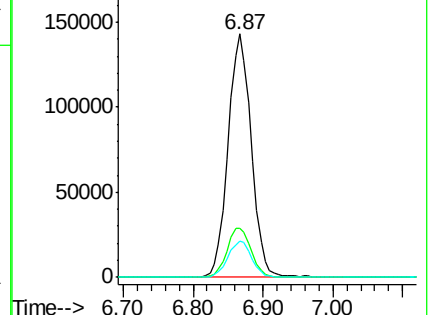
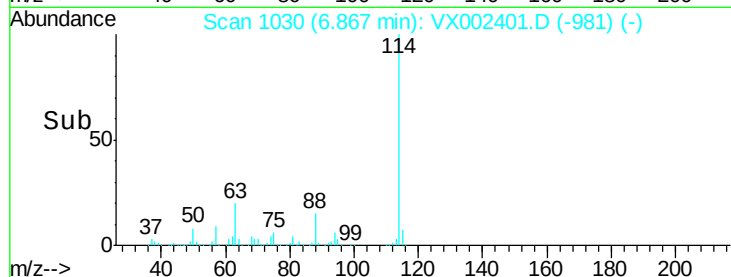
88 15.1 0.0 30.0



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: 46.18 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX002401.D

Acq: 08 Jun 2018 14:57

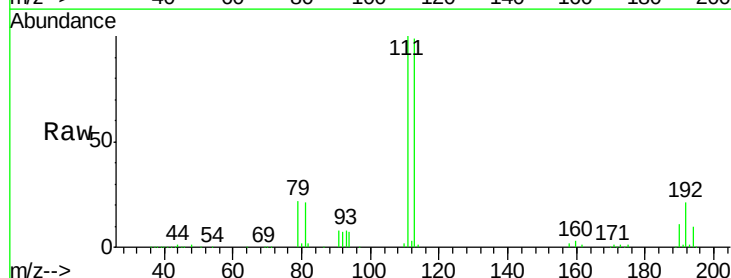
Tgt Ion:113 Resp: 120015

Ion Ratio Lower Upper

113 100

111 101.1 81.4 122.0

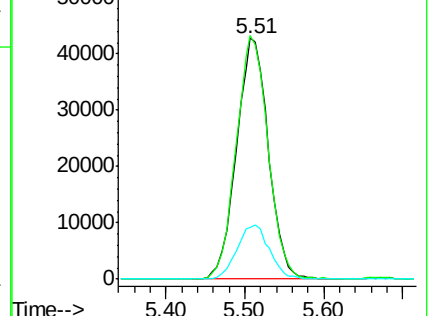
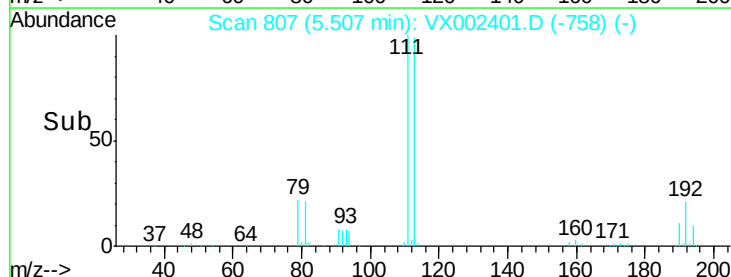
192 22.9 19.1 28.7

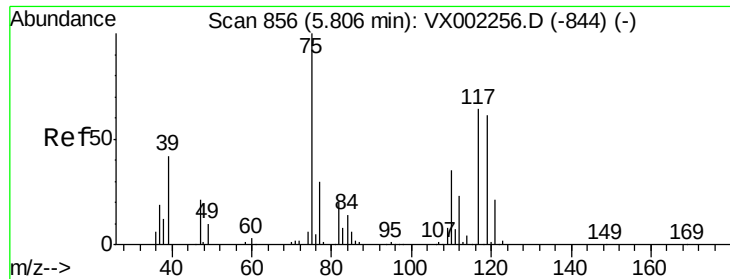


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

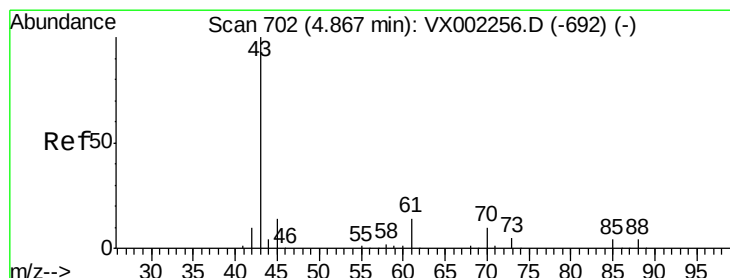
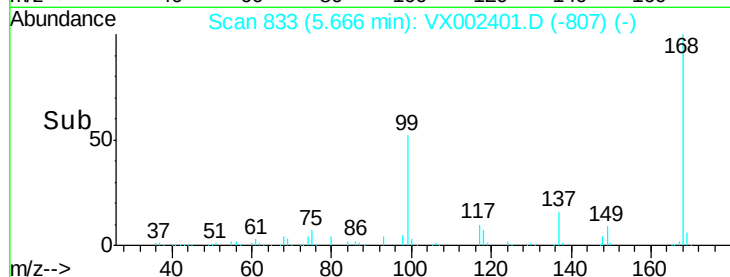
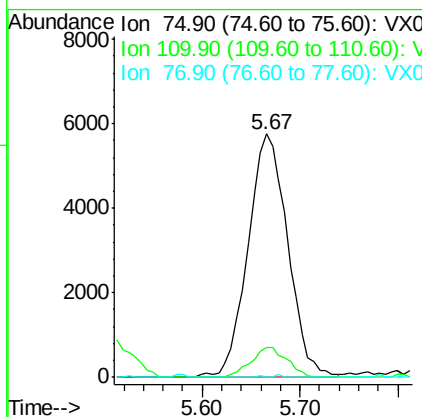
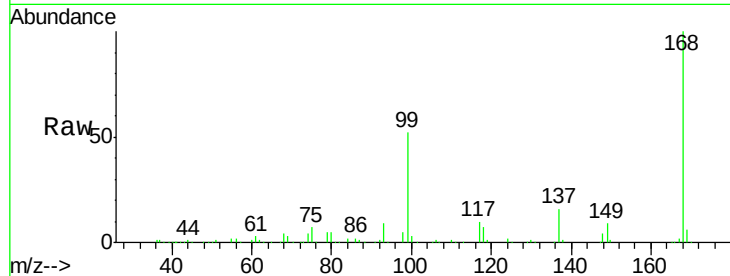




#36
 1,1-Dichloropropene
 Concen: 4.68 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.14 min
 Lab File: VX002401.D
 Acq: 08 Jun 2018 14:57

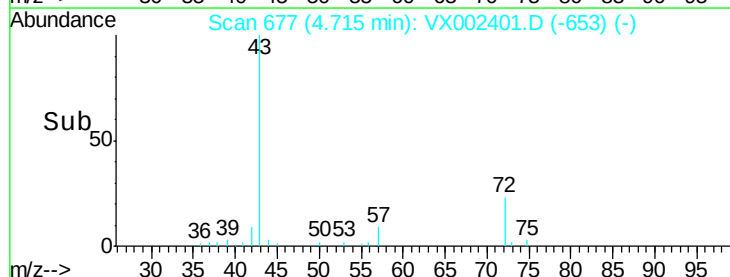
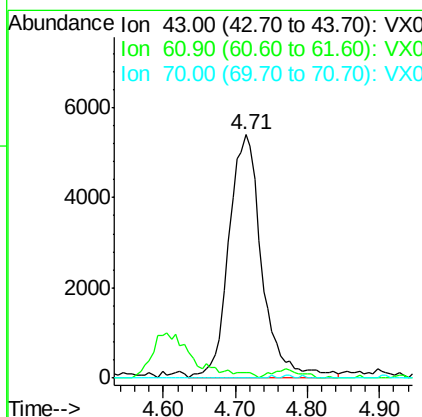
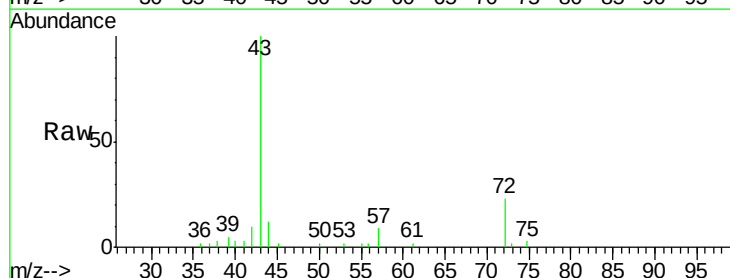
Instrument :
 MSVOA_X
 ClientSampleId :
 LF5-FB-2018-1DL

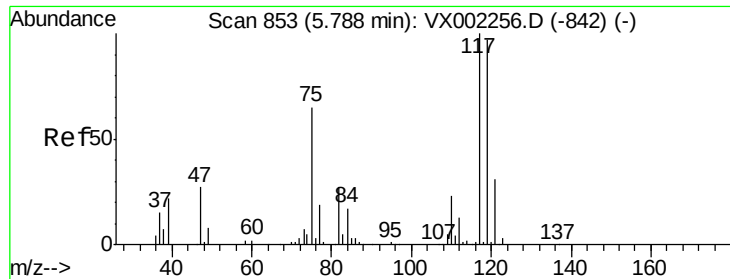
Tot Ion: 75 Resp: 16252
 Ion Ratio Lower Upper
 75 100
 110 11.2 18.1 54.4#
 77 0.1 24.3 36.5#



#37
 Ethyl Acetate
 Concen: 4.14 ug/l
 RT: 4.71 min Scan# 677
 Delta R.T. -0.15 min
 Lab File: VX002401.D
 Acq: 08 Jun 2018 14:57

Tgt Ion: 43 Resp: 17289
 Ion Ratio Lower Upper
 43 100
 61 0.0 10.4 15.6#
 70 0.0 7.6 11.4#





#38

Carbon Tetrachloride

Concen: 5.94 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX002401.D

Acq: 08 Jun 2018 14:57

Instrument :

MSVOA_X

ClientSampleId :

LF5-FB-2018-1DL

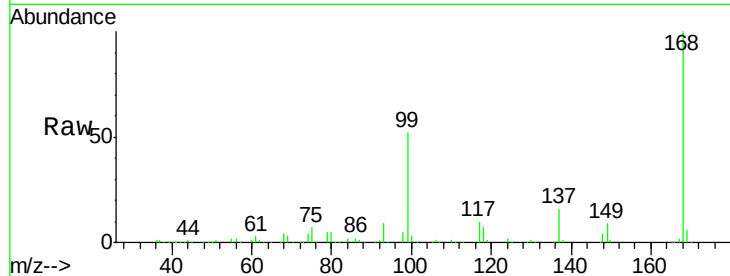
Tot Ion:117 Resp: 21574

Ion Ratio Lower Upper

117 100

119 5.6 77.4 116.0#

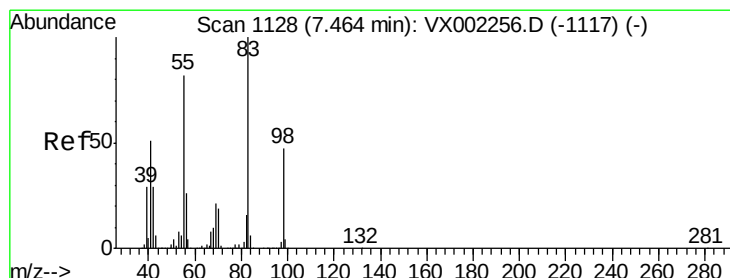
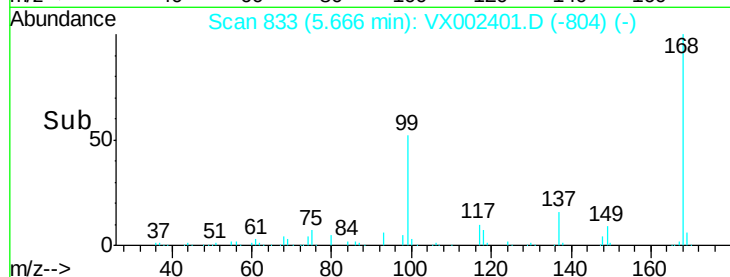
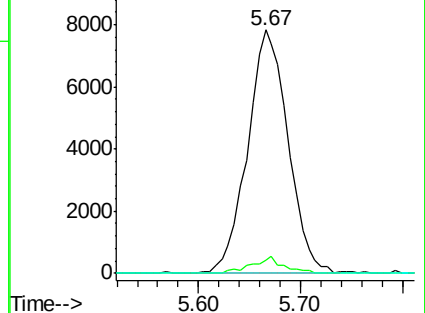
121 0.0 24.4 36.6#



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



#39

Methylcyclohexane

Concen: 0.32 ug/l

RT: 7.47 min Scan# 1129

Delta R.T. 0.01 min

Lab File: VX002401.D

Acq: 08 Jun 2018 14:57

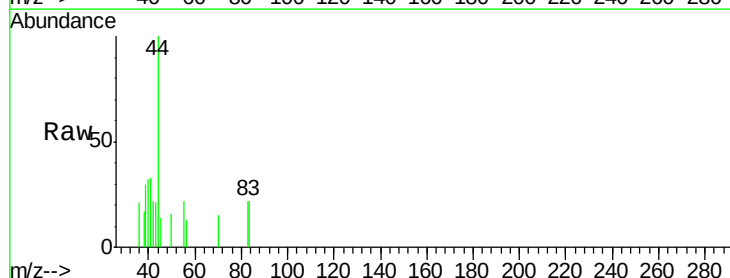
Tgt Ion: 83 Resp: 248

Ion Ratio Lower Upper

83 100

55 50.3 65.4 98.0#

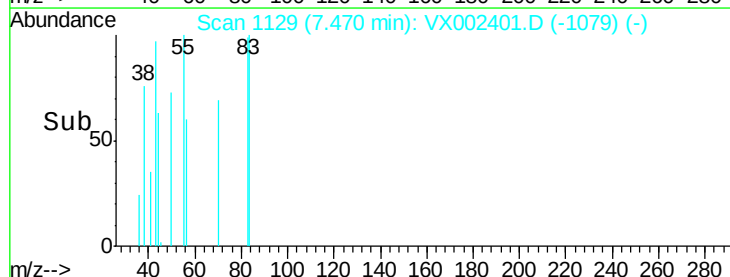
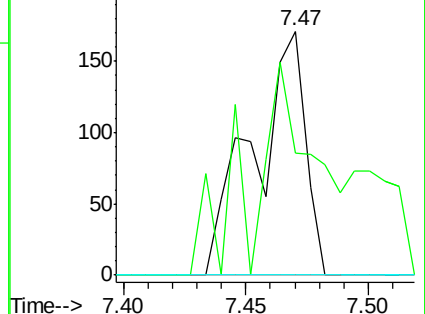
98 0.0 37.4 56.0#

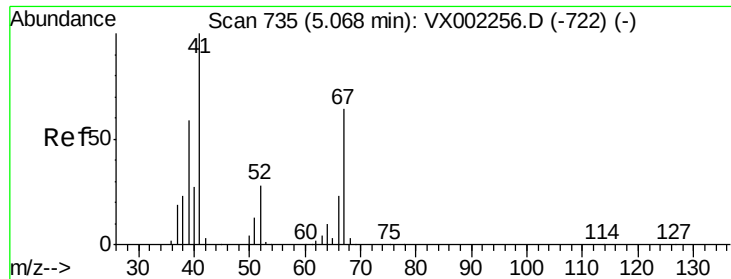


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0

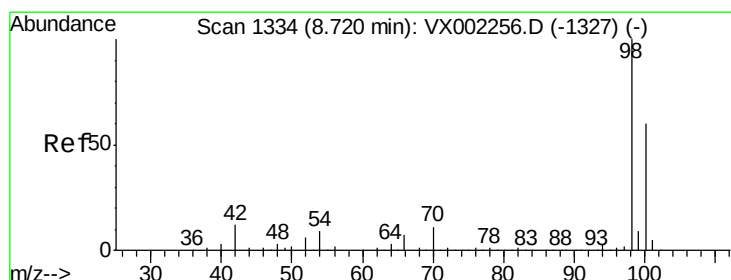
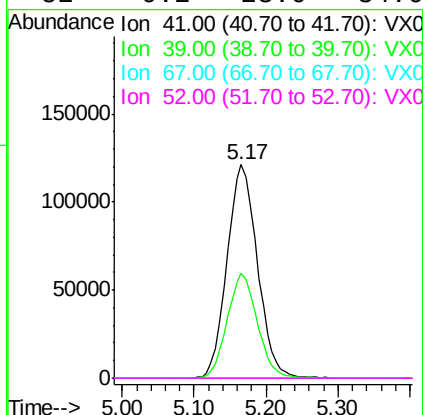
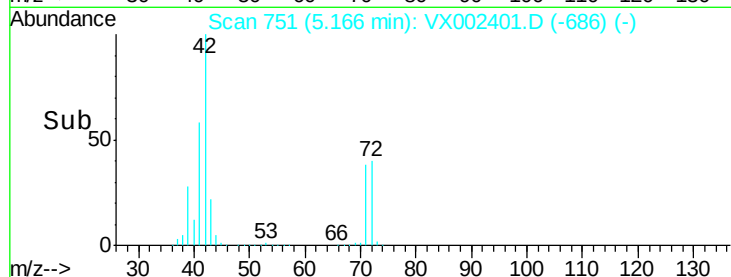
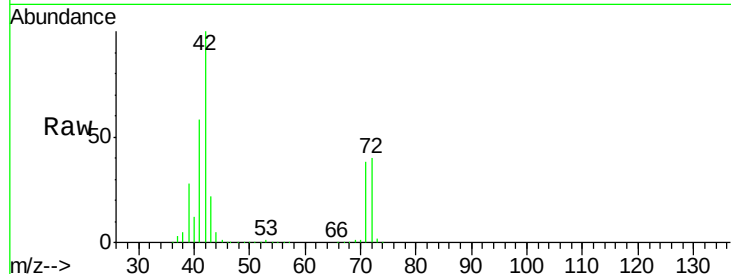




#41
Methacrylonitrile
Concen: 148.73 ug/l
RT: 5.17 min Scan# 751
Delta R.T. 0.10 min
Lab File: VX002401.D
Acq: 08 Jun 2018 14:57

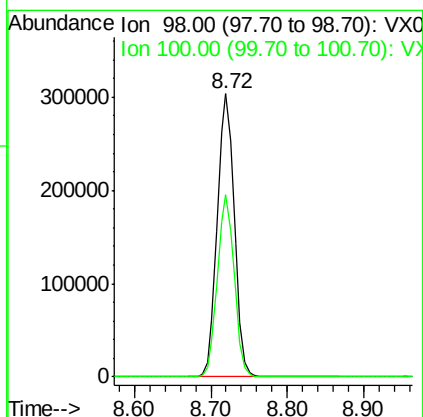
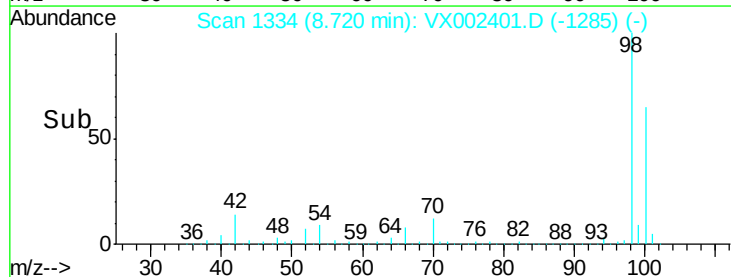
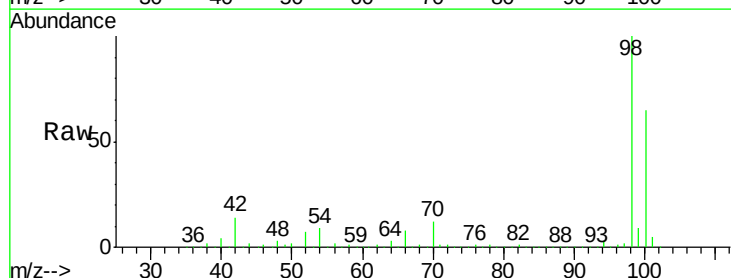
Instrument :
MSVOA_X
ClientSampled :
LF5-FB-2018-1DL

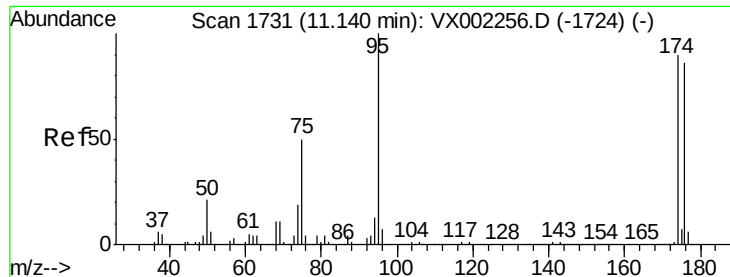
Tot Ion: 41 Resp: 355770
Ion Ratio Lower Upper
41 100
39 48.2 45.8 68.6
67 0.0 51.3 76.9#
52 0.2 23.0 34.6#



#50
Toluene-d8
Concen: 47.26 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX002401.D
Acq: 08 Jun 2018 14:57

Tgt Ion: 98 Resp: 470856
Ion Ratio Lower Upper
98 100
100 63.1 50.9 76.3

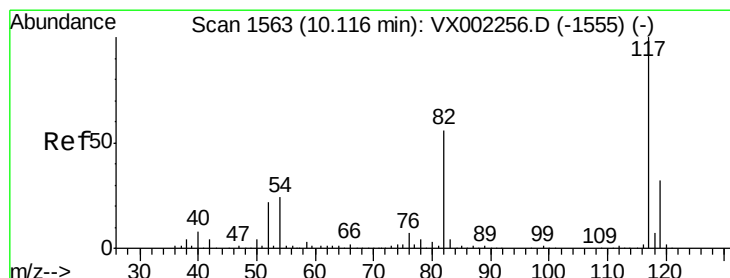
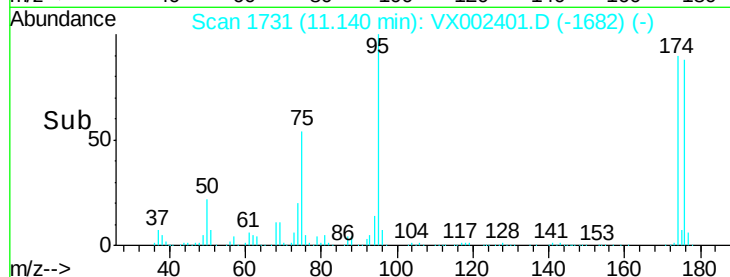
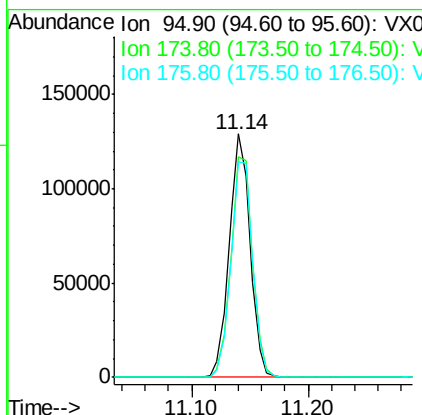
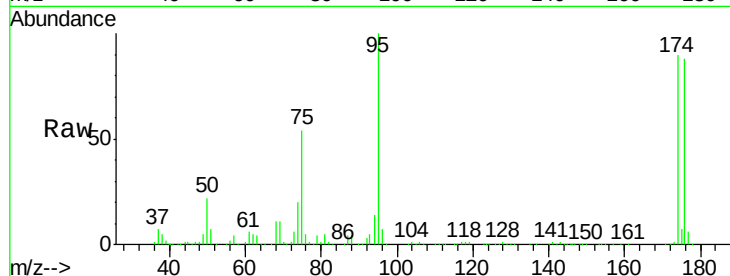




#62
4-Bromofluorobenzene
Concen: 41.80 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.00 min
Lab File: VX002401.D
Acq: 08 Jun 2018 14:57

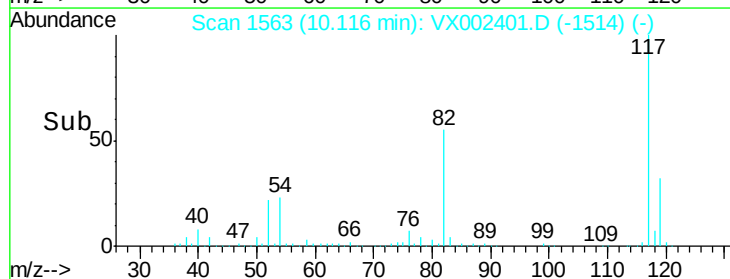
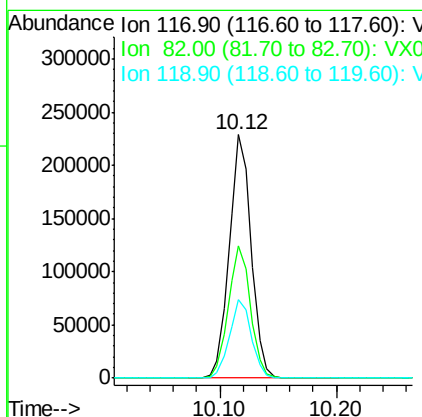
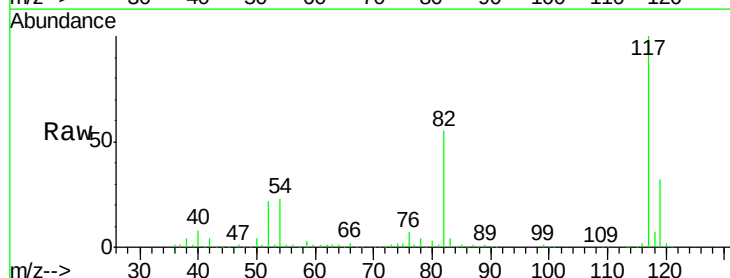
Instrument :
MSVOA_X
ClientSampled :
LF5-FB-2018-1DL

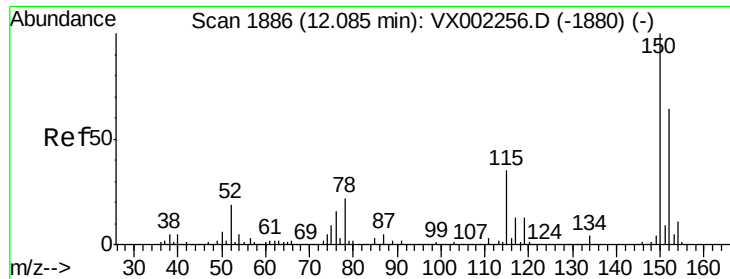
Tot Ion: 95 Resp: 160577
Ion Ratio Lower Upper
95 100
174 94.7 0.0 187.4
176 92.7 0.0 181.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002401.D
Acq: 08 Jun 2018 14:57

Tgt Ion: 117 Resp: 298518
Ion Ratio Lower Upper
117 100
82 54.6 45.0 67.4
119 32.2 25.8 38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002401.D

Acq: 08 Jun 2018 14:57

Instrument :

MSVOA_X

ClientSampleId :

LF5-FB-2018-1DL

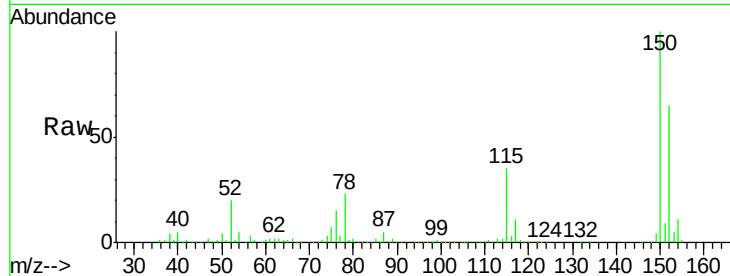
Tot Ion:152 Resp: 163107

Ion Ratio Lower Upper

152 100

115 55.5 40.1 120.2

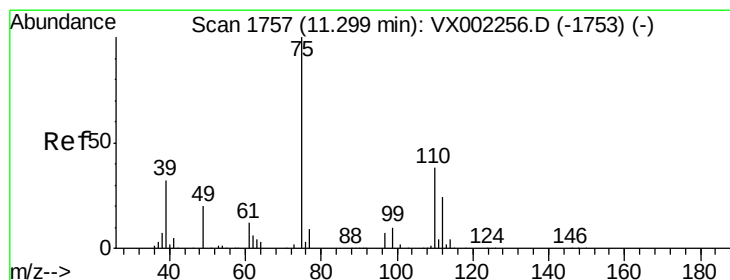
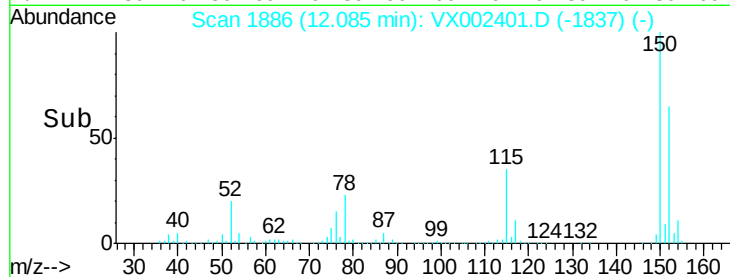
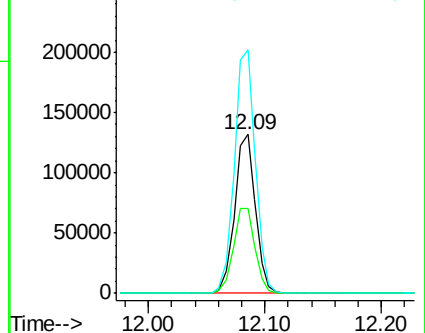
150 155.9 0.0 347.2



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: 24.10 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002401.D

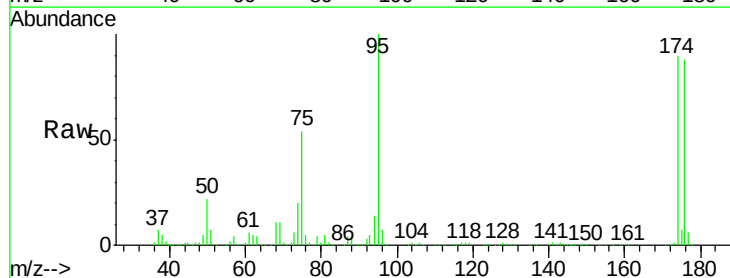
Acq: 08 Jun 2018 14:57

Tgt Ion: 75 Resp: 86242

Ion Ratio Lower Upper

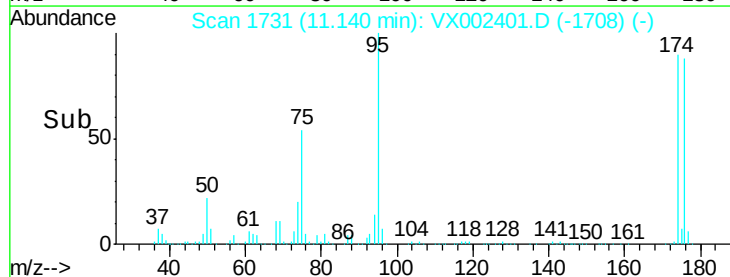
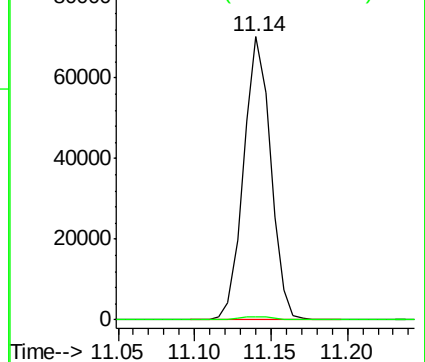
75 100

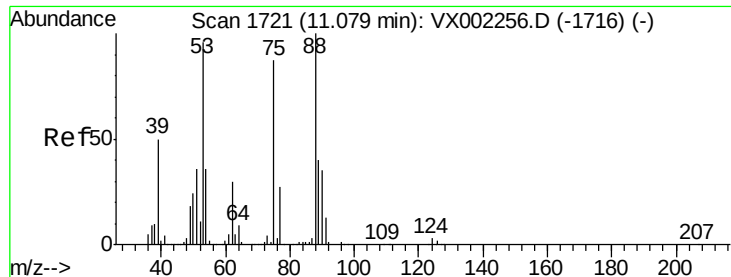
77 1.4 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

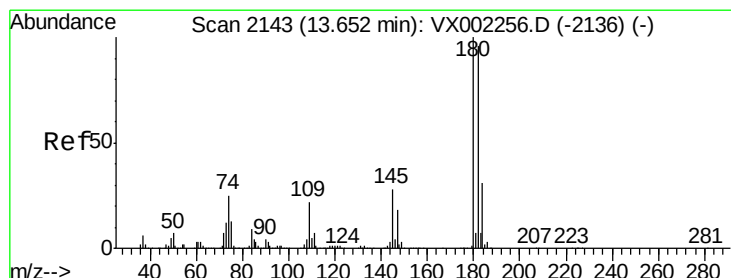
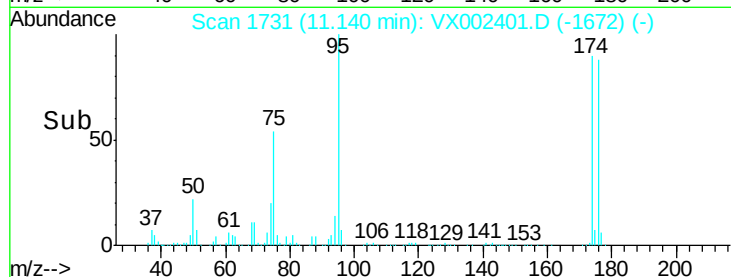
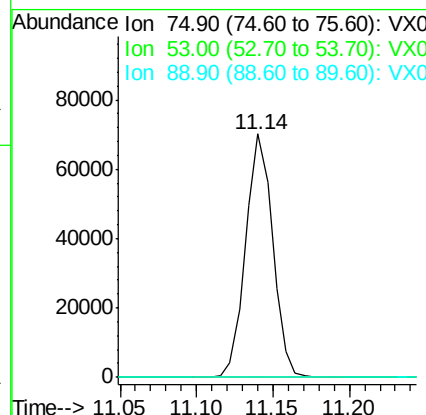
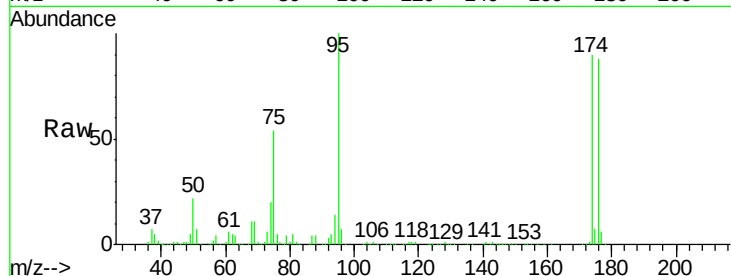




#81
trans-1,4-Dichloro-2-butene
Concen: 84.47 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.06 min
Lab File: VX002401.D
Acq: 08 Jun 2018 14:57

Instrument :
MSVOA_X
ClientSampleId :
LF5-FB-2018-1DL

Tot Ion: 75 Resp: 86242
Ion Ratio Lower Upper
75 100
53 0.0 86.8 130.2#
89 0.0 38.2 57.2#



#93
1,2,4-Trichlorobenzene
Concen: 0.21 ug/l
RT: 13.65 min Scan# 2143
Delta R.T. -0.00 min
Lab File: VX002401.D
Acq: 08 Jun 2018 14:57

Tgt Ion:180 Resp: 859
Ion Ratio Lower Upper
180 100
182 79.3 47.7 143.1
145 26.3 14.1 42.4

