

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060518\
 Data File : VX002305.D
 Acq On : 05 Jun 2018 15:04
 Operator : JC/MD
 Sample : J3270-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LF6-TB-2018-2

Quant Time: Jun 06 04:31:11 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	236380	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	336368	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	309727	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	173114	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	161360	47.57	ug/l	0.00
Spiked Amount			Recovery	=	95.14%	
35) Dibromofluoromethane	5.51	113	119244	45.08	ug/l	0.00
Spiked Amount			Recovery	=	90.16%	
50) Toluene-d8	8.72	98	486346	47.97	ug/l	0.00
Spiked Amount			Recovery	=	95.94%	
62) 4-Bromofluorobenzene	11.14	95	168538	43.11	ug/l	0.00
Spiked Amount			Recovery	=	86.22%	

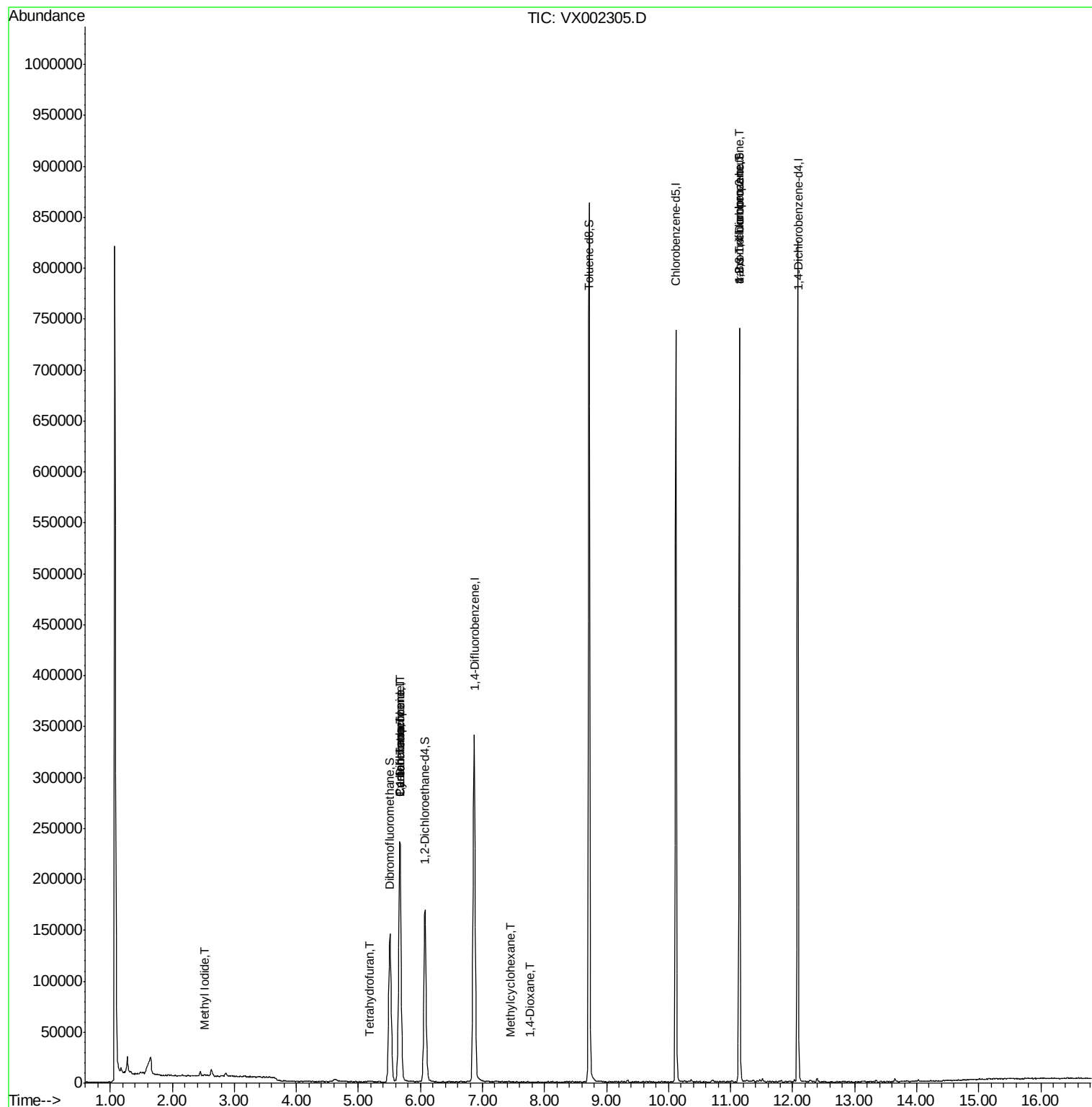
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	989	Below Cal	#	66
5) Bromomethane	1.65	94	2700	Below Cal	#	61
8) Diethyl Ether	2.18	74	147	Below Cal	#	1
10) Methyl Iodide	2.52	142	1533	0.43	ug/l	91
11) Tert butyl alcohol	3.06	59	360	Below Cal	#	1
13) Acrolein	2.29	56	192	Below Cal	#	61
15) Acrylonitrile	3.15	53	647	Below Cal	#	42
16) Acetone	2.45	43	4781	Below Cal	#	93
18) Methyl Acetate	2.78	43	352	Below Cal	#	29
19) Methyl tert-butyl Ether	3.21	73	152	Below Cal	#	84
20) Methylene Chloride	2.86	84	1336	Below Cal	#	84
22) Diisopropyl ether	3.86	45	290	Below Cal	#	55
28) Bromochloromethane	5.02	49	105	Below Cal	#	13
29) Tetrahydrofuran	5.18	42	1159	0.78	ug/l	82
31) Cyclohexane	5.67	56	5358	1.26	ug/l	6
36) 1,1-Dichloropropene	5.67	75	16862	4.77	ug/l	50
38) Carbon Tetrachloride	5.67	117	21415	5.79	ug/l	16
39) Methylcyclohexane	7.46	83	86	0.28	ug/l	16
49) 1,4-Dioxane	7.77	88	19	0.28	ug/l	1
76) 1,2,3-Trichloropropane	11.14	75	92137	24.26	ug/l	33
81) trans-1,4-Dichloro-2-buten	11.14	75	92137	85.02	ug/l	6

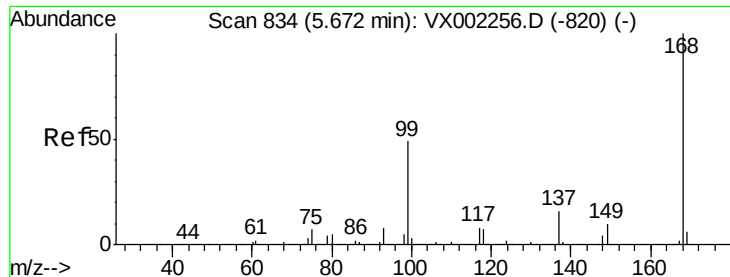
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X060418W.M
Quant Title : SW846 8260
QLast Update : Tue Jun 05 03:22:35 2018
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX002305.D

Acq: 05 Jun 2018 15:04

Instrument :

MSVOA_X

ClientSampleId :

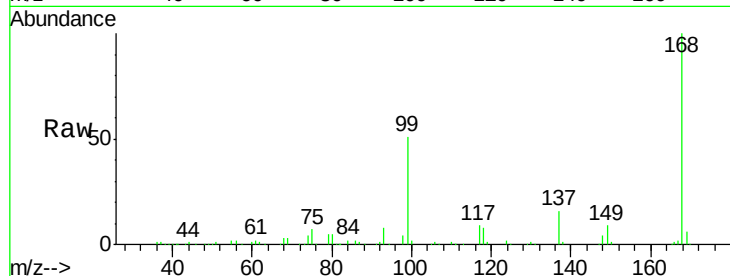
LF6-TB-2018-2

Tot Ion:168 Resp: 236380

Ion Ratio Lower Upper

168 100

99 51.0 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

80000

60000

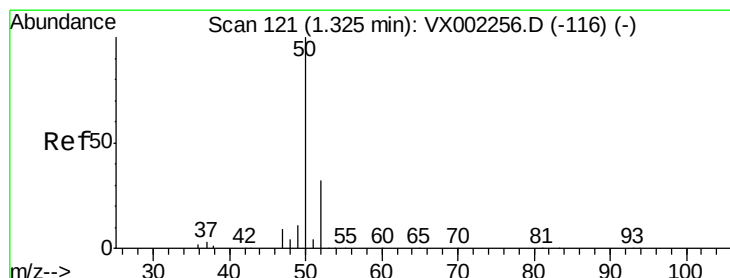
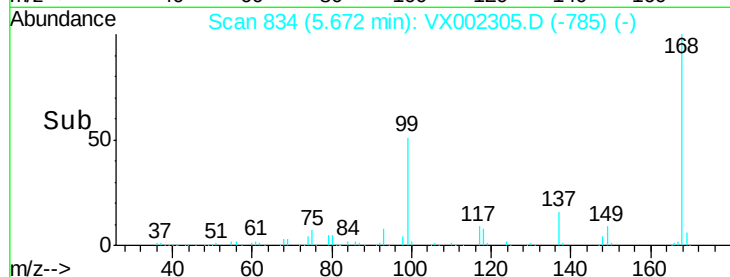
40000

20000

0

Time-->

5.50 5.60 5.70 5.80 5.90



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX002305.D

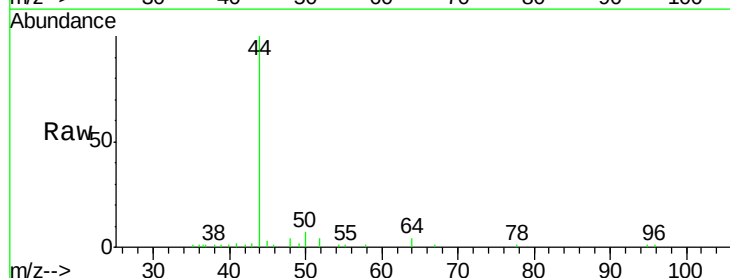
Acq: 05 Jun 2018 15:04

Tgt Ion: 50 Resp: 989

Ion Ratio Lower Upper

50 100

52 51.2 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

600

500

400

300

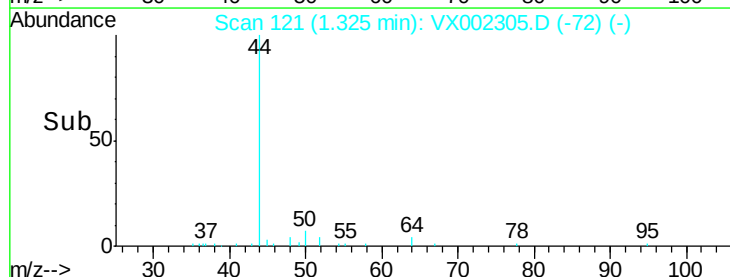
200

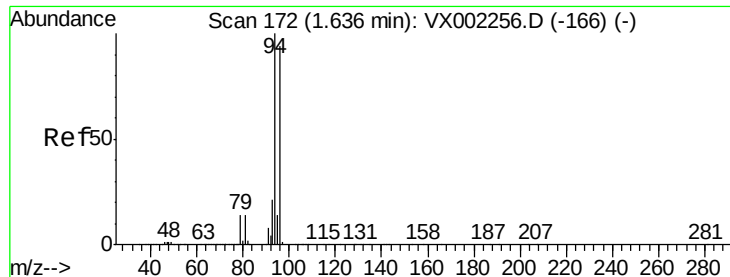
100

0

Time-->

1.30 1.35 1.40





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX002305.D

Acq: 05 Jun 2018 15:04

Instrument :

MSVOA_X

ClientSampleId :

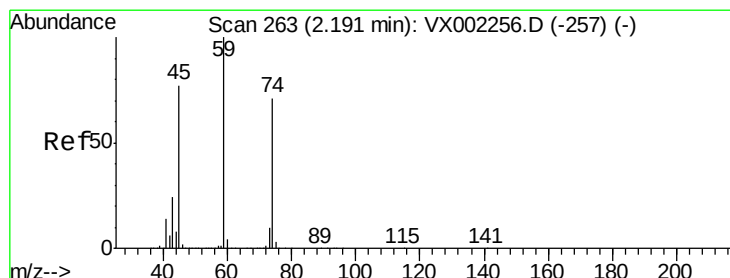
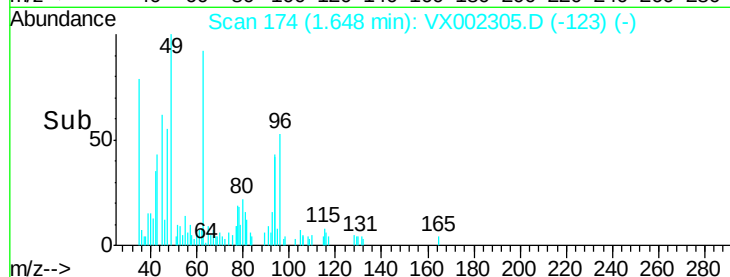
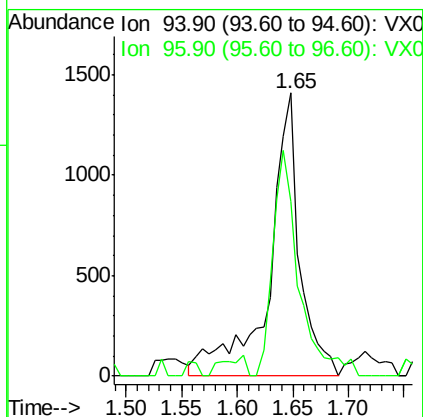
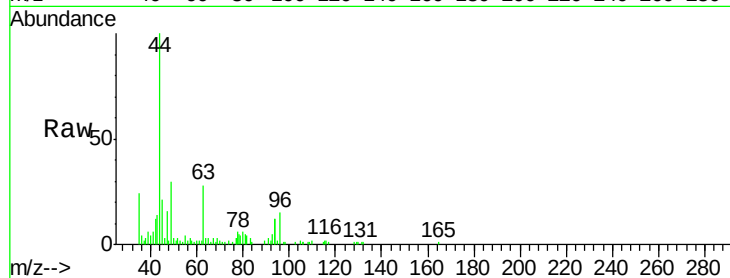
LF6-TB-2018-2

Tot Ion: 94 Resp: 2700

Ion Ratio Lower Upper

94 100

96 56.5 74.9 112.3#



#8

Diethyl Ether

Concen: Below Cal

RT: 2.18 min Scan# 262

Delta R.T. -0.01 min

Lab File: VX002305.D

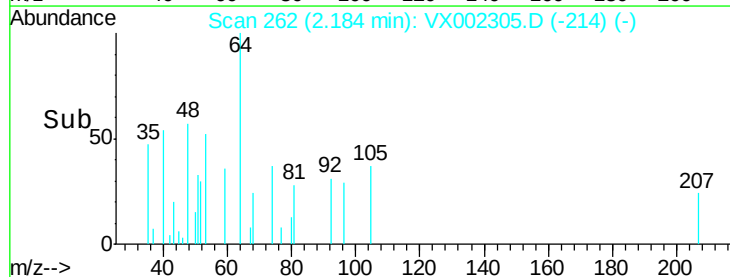
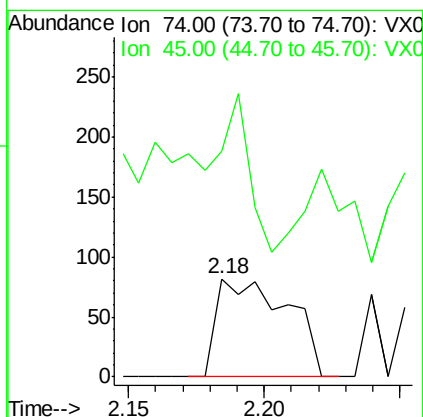
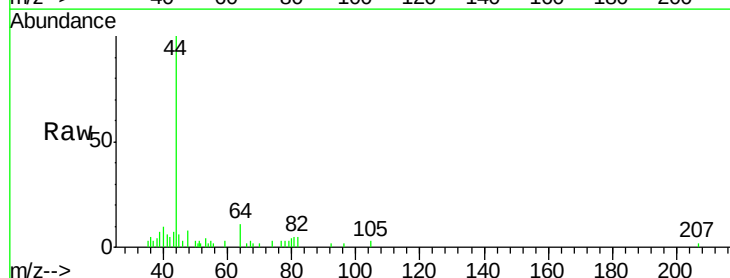
Acq: 05 Jun 2018 15:04

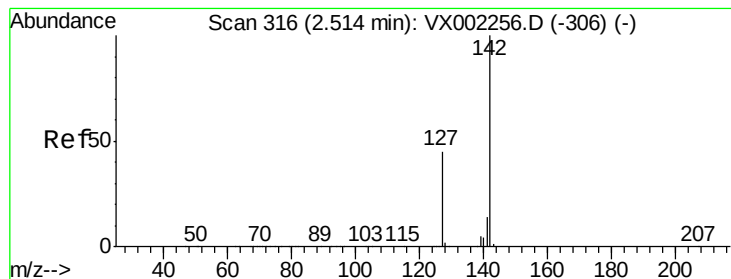
Tgt Ion: 74 Resp: 147

Ion Ratio Lower Upper

74 100

45 0.0 53.1 159.4#





#10

Methyl Iodide

Concen: 0.43 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX002305.D

Acq: 05 Jun 2018 15:04

Instrument :

MSVOA_X

ClientSampled :

LF6-TB-2018-2

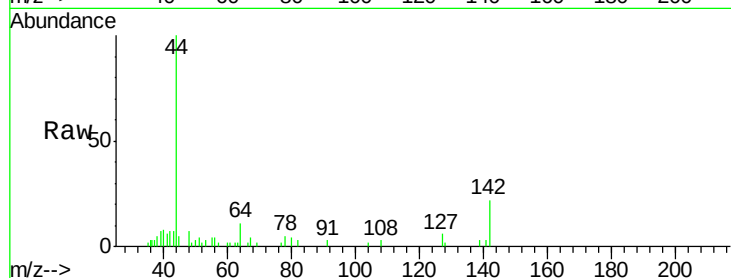
Tot Ion:142 Resp: 1533

Ion Ratio Lower Upper

142 100

127 53.0 36.6 55.0

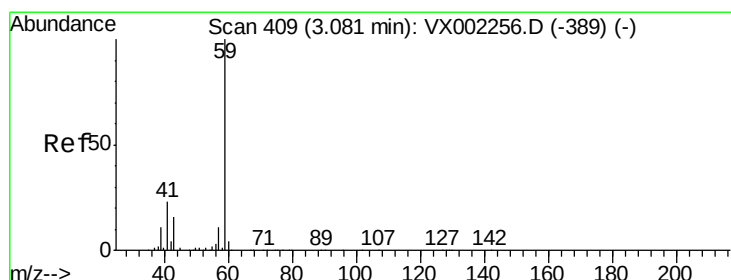
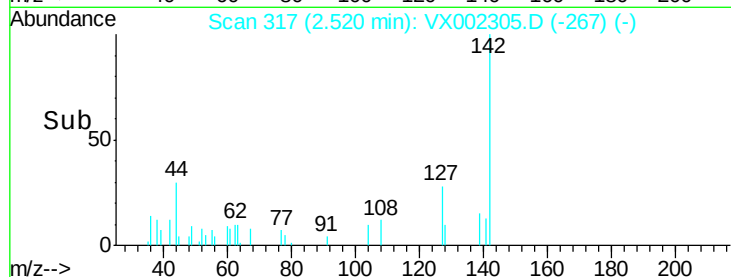
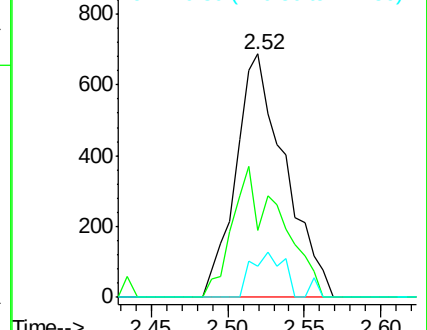
141 12.1 11.3 16.9



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



#11

Tert butyl alcohol

Concen: Below Cal

RT: 3.06 min Scan# 406

Delta R.T. -0.02 min

Lab File: VX002305.D

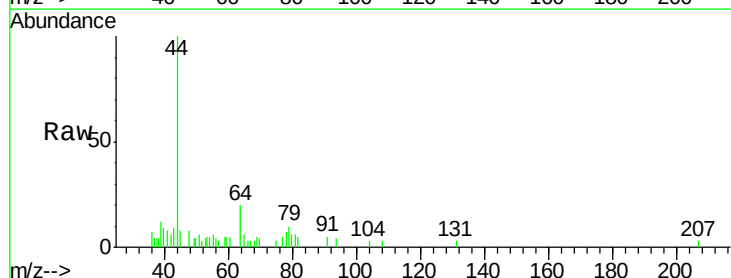
Acq: 05 Jun 2018 15:04

Tgt Ion: 59 Resp: 360

Ion Ratio Lower Upper

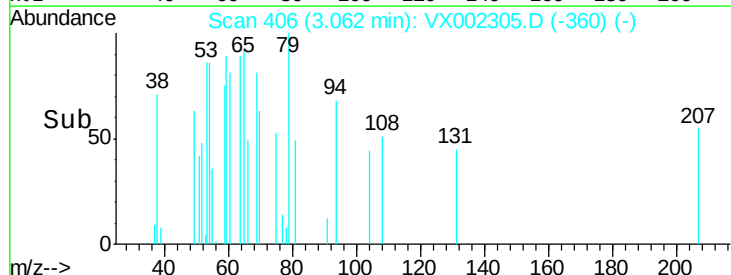
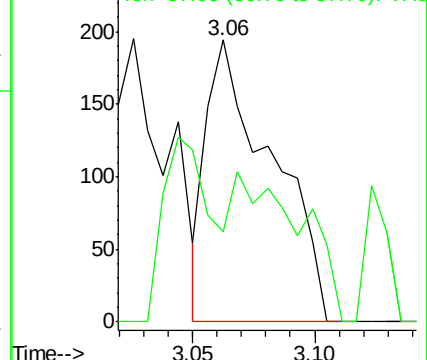
59 100

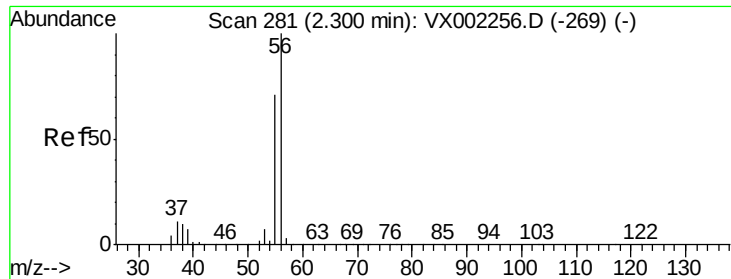
57 55.3 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: Below Cal

RT: 2.29 min Scan# 280

Delta R.T. -0.01 min

Lab File: VX002305.D

Acq: 05 Jun 2018 15:04

Instrument :

MSVOA_X

ClientSampleId :

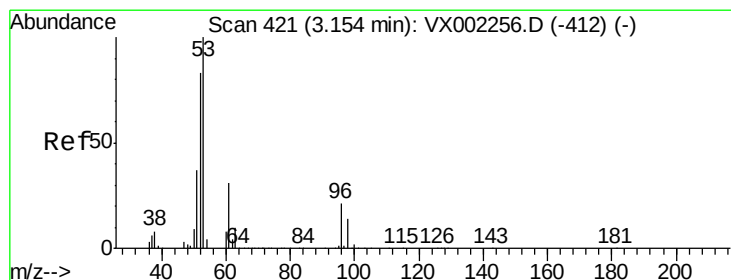
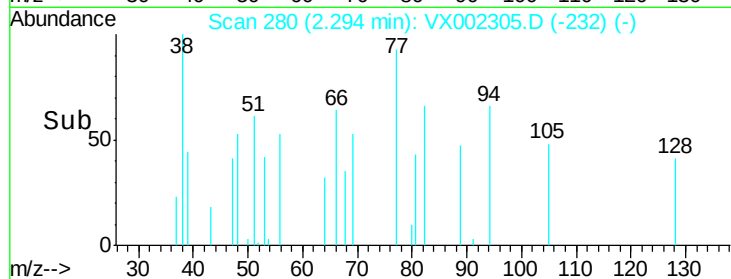
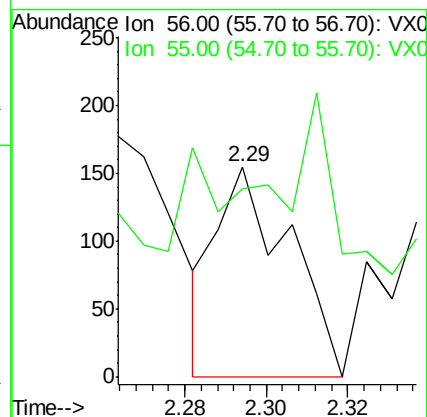
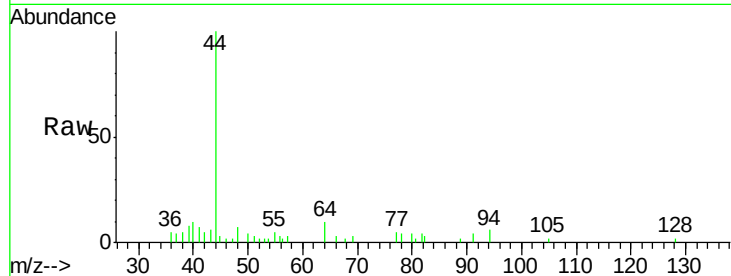
LF6-TB-2018-2

Tot Ion: 56 Resp: 192

Ion Ratio Lower Upper

56 100

55 39.1 57.0 85.4#



#15

Acrylonitrile

Concen: Below Cal

RT: 3.15 min Scan# 420

Delta R.T. -0.01 min

Lab File: VX002305.D

Acq: 05 Jun 2018 15:04

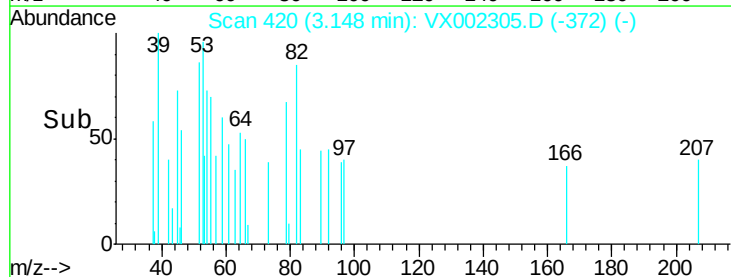
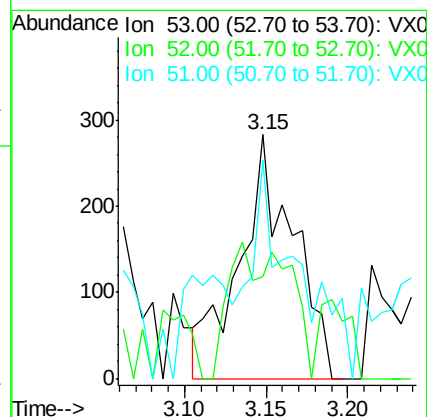
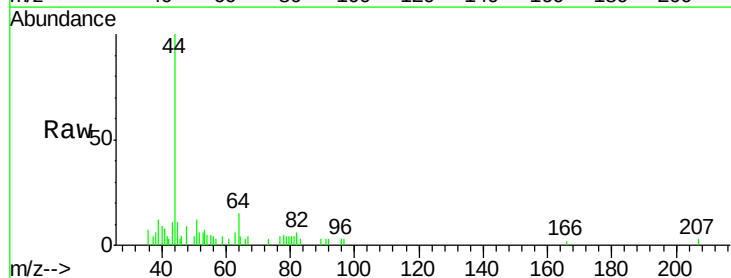
Tgt Ion: 53 Resp: 647

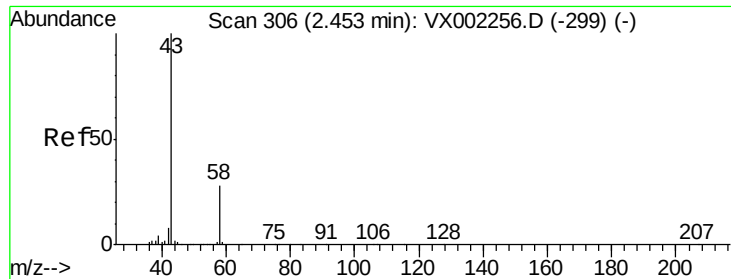
Ion Ratio Lower Upper

53 100

52 34.2 66.7 100.1#

51 76.8 29.9 44.9#

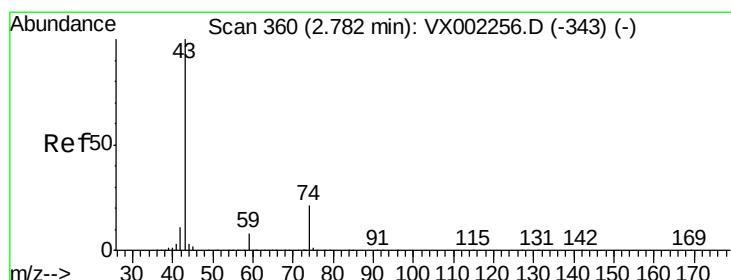
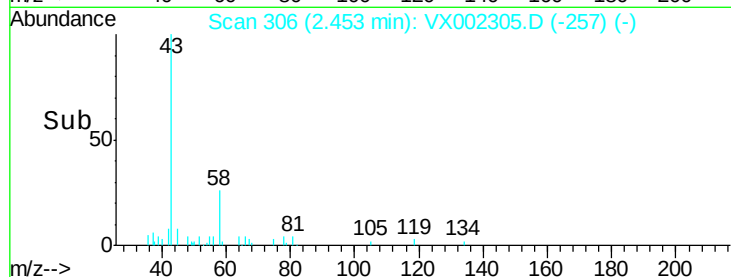
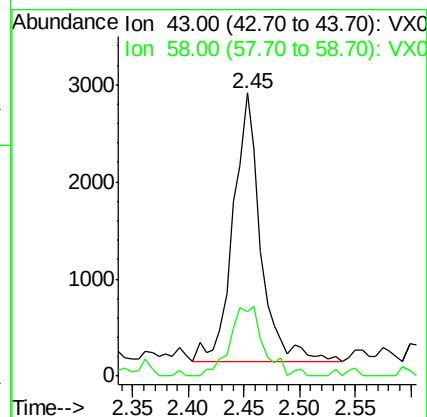
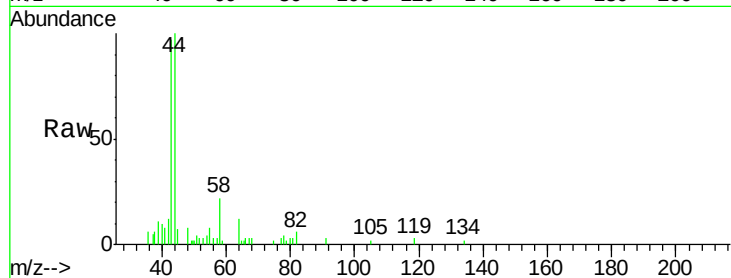




#16
Acetone
Concen: Below Cal
RT: 2.45 min Scan# 306
Delta R.T. 0.00 min
Lab File: VX002305.D
Acq: 05 Jun 2018 15:04

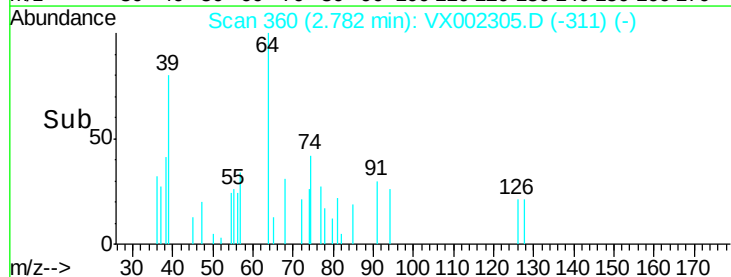
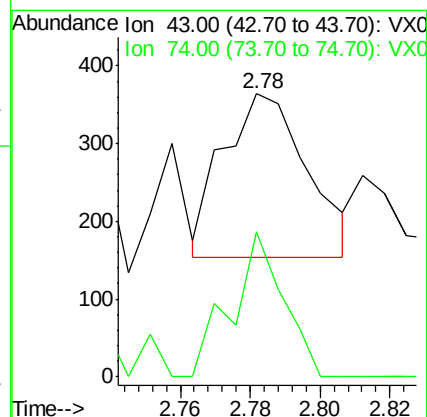
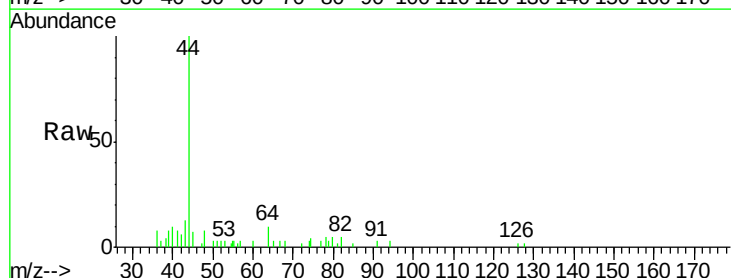
Instrument :
MSVOA_X
ClientSampleId :
LF6-TB-2018-2

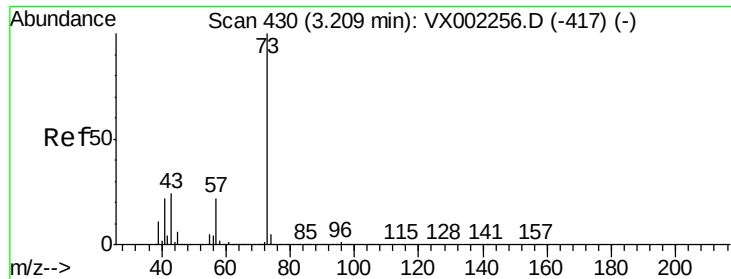
Tot Ion: 43 Resp: 4781
Ion Ratio Lower Upper
43 100
58 23.9 22.1 33.1



#18
Methyl Acetate
Concen: Below Cal
RT: 2.78 min Scan# 360
Delta R.T. -0.00 min
Lab File: VX002305.D
Acq: 05 Jun 2018 15:04

Tgt Ion: 43 Resp: 352
Ion Ratio Lower Upper
43 100
74 54.3 16.7 25.1#



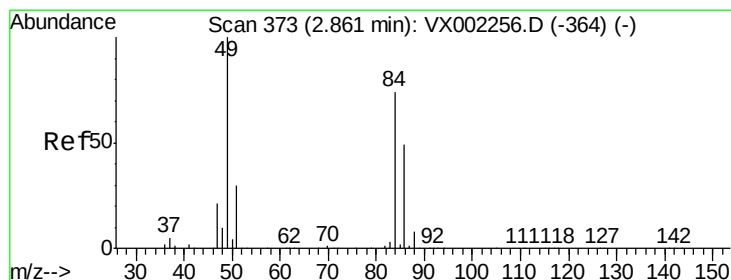
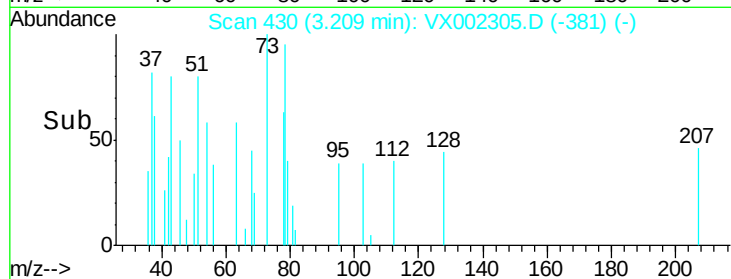
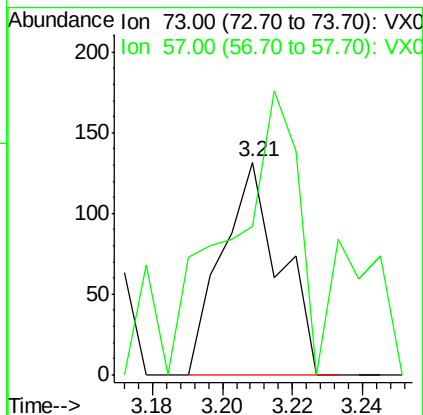
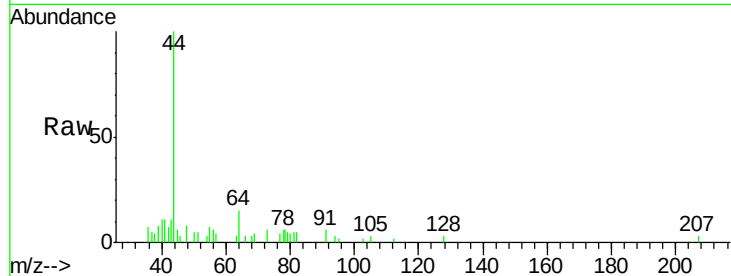


#19

Methyl tert-butyl Ether
Concen: Below Cal
RT: 3.21 min Scan# 430
Delta R.T. 0.00 min
Lab File: VX002305.D
Acq: 05 Jun 2018 15:04

Instrument :
MSVOA_X
ClientSampleId :
LF6-TB-2018-2

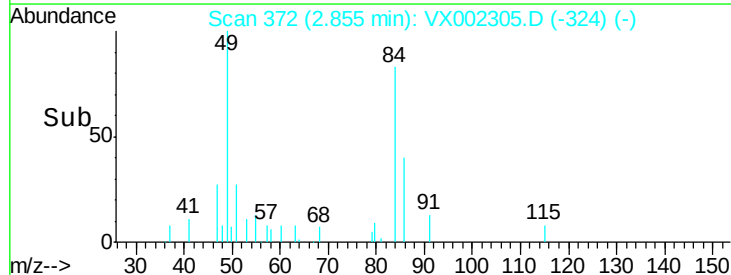
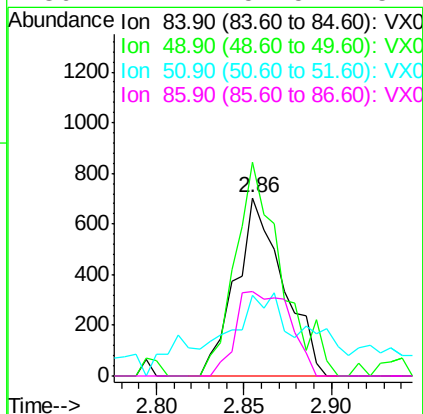
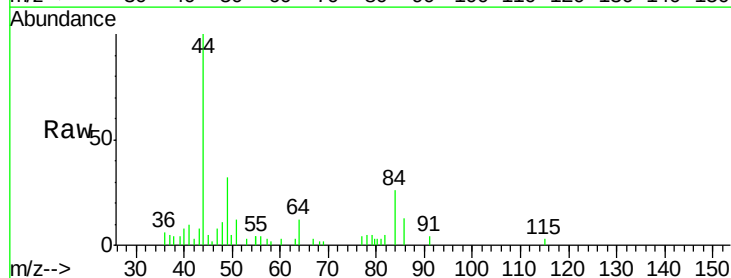
Tot Ion: 73 Resp: 152
Ion Ratio Lower Upper
73 100
57 14.4 17.7 26.5#

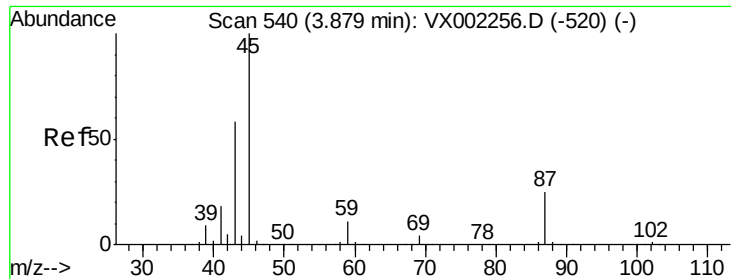


#20

Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 372
Delta R.T. -0.01 min
Lab File: VX002305.D
Acq: 05 Jun 2018 15:04

Tgt Ion: 84 Resp: 1336
Ion Ratio Lower Upper
84 100
49 119.9 107.8 161.6
51 29.4 32.8 49.2#
86 47.4 52.5 78.7#

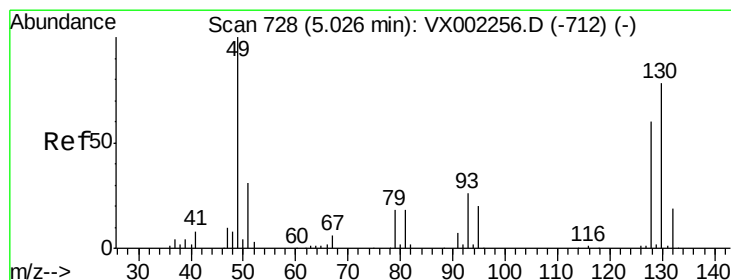
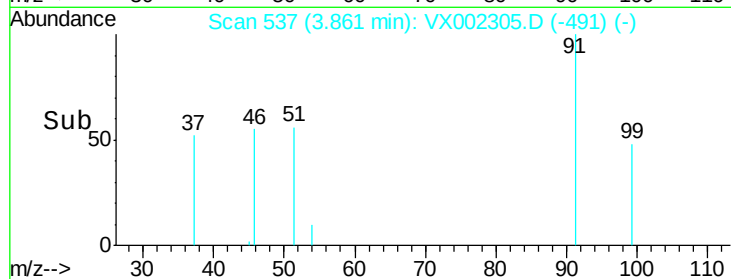
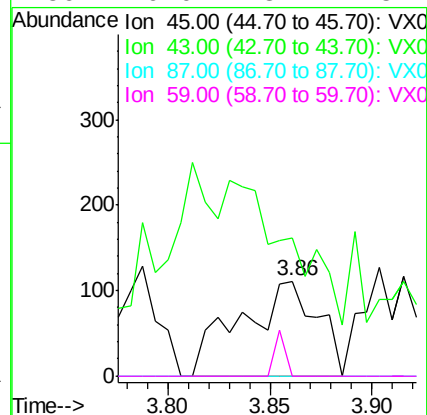
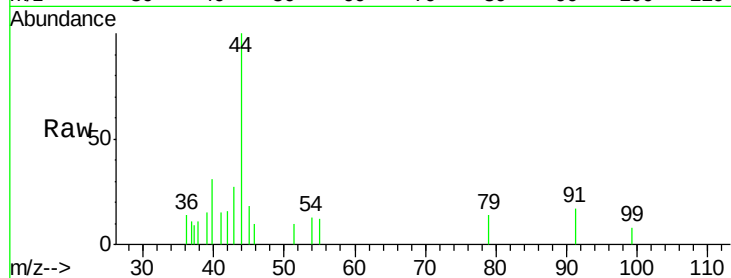




#22
Diisopropyl ether
Concen: Below Cal
RT: 3.86 min Scan# 537
Delta R.T. -0.02 min
Lab File: VX002305.D
Acq: 05 Jun 2018 15:04

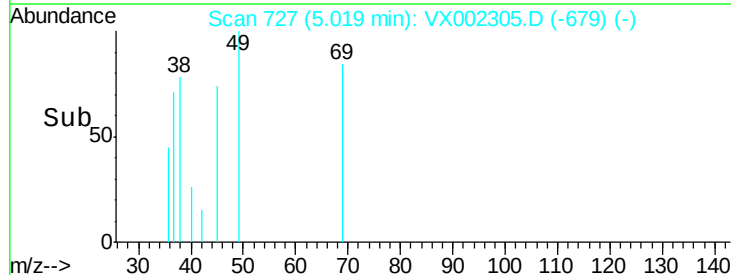
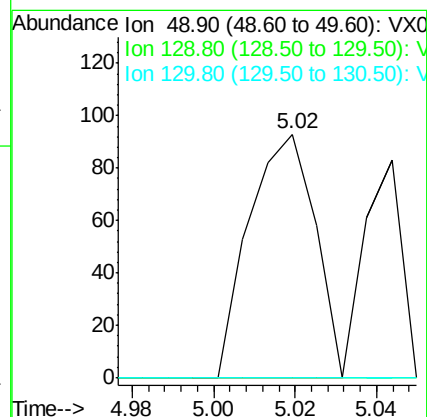
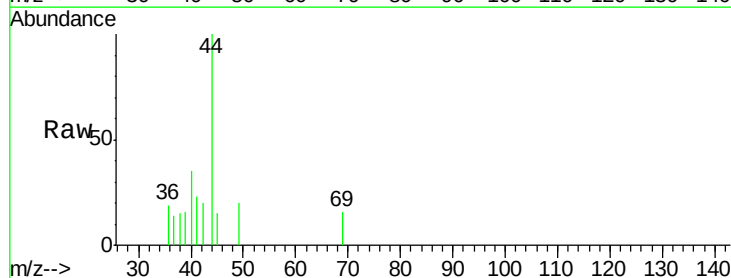
Instrument :
MSVOA_X
ClientSampled :
LF6-TB-2018-2

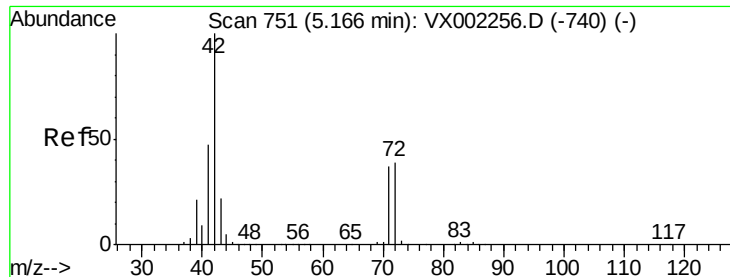
Tot Ion:	45	Resp:	290
Ion	Ratio	Lower	Upper
45	100		
43	92.8	46.8	70.2#
87	0.0	20.2	30.4#
59	0.0	8.7	13.1#



#28
Bromochloromethane
Concen: Below Cal
RT: 5.02 min Scan# 727
Delta R.T. -0.01 min
Lab File: VX002305.D
Acq: 05 Jun 2018 15:04

Tgt Ion:	49	Resp:	105
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.2
130	0.0	61.2	91.8#





#29

Tetrahydrofuran

Concen: 0.78 ug/l

RT: 5.18 min Scan# 753

Delta R.T. 0.01 min

Lab File: VX002305.D

Acq: 05 Jun 2018 15:04

Instrument :

MSVOA_X

ClientSampleId :

LF6-TB-2018-2

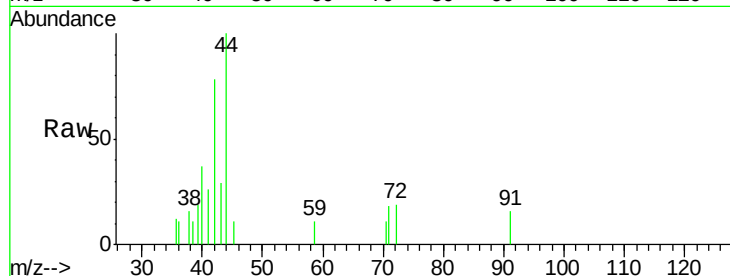
Tot Ion: 42 Resp: 1159

Ion Ratio Lower Upper

42 100

72 27.4 32.0 48.0#

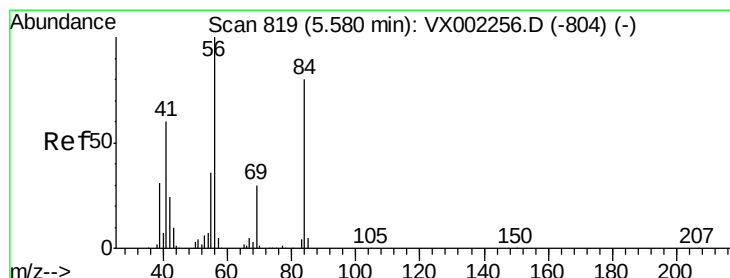
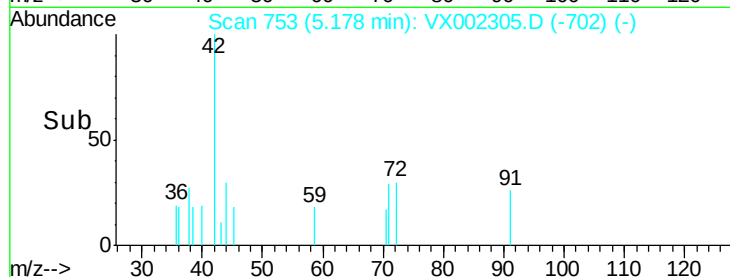
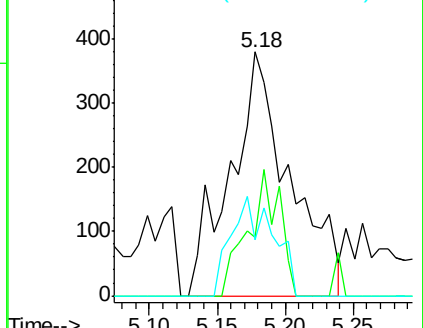
71 28.6 30.1 45.1#



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



#31

Cyclohexane

Concen: 1.26 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.09 min

Lab File: VX002305.D

Acq: 05 Jun 2018 15:04

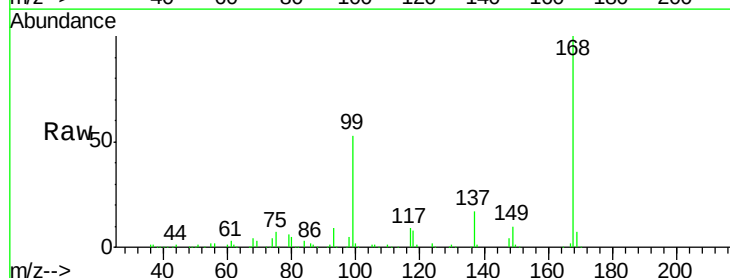
Tgt Ion: 56 Resp: 5358

Ion Ratio Lower Upper

56 100

69 143.7 23.7 35.5#

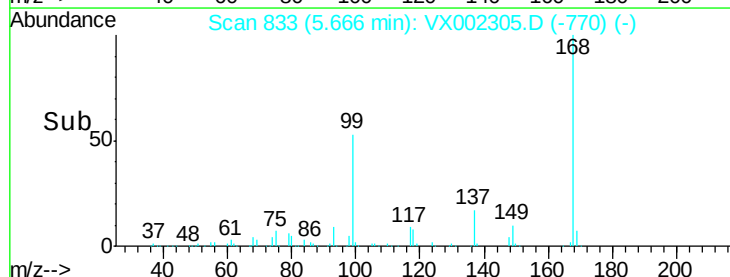
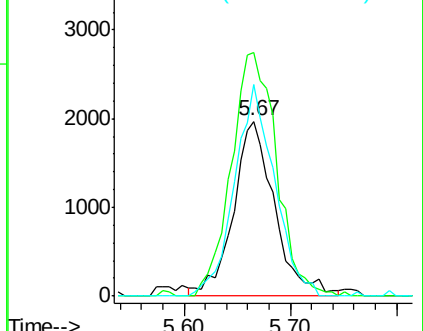
84 125.1 64.1 96.1#

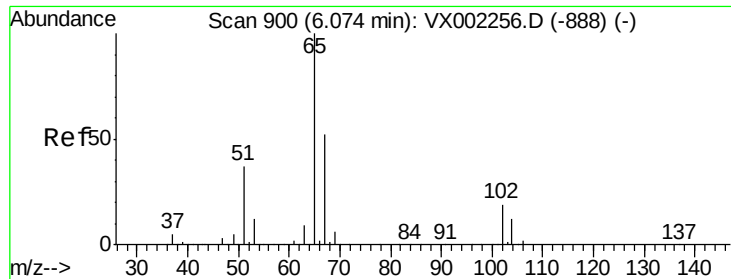


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

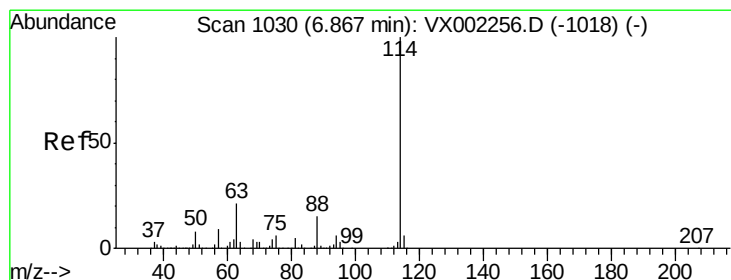
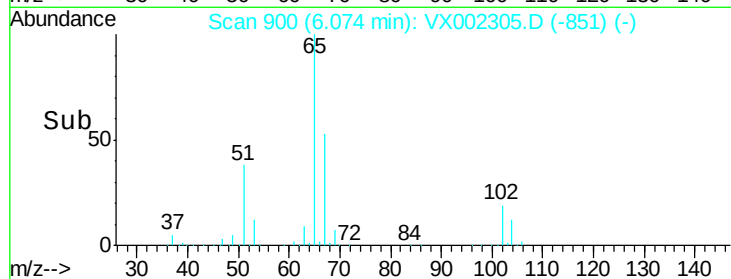
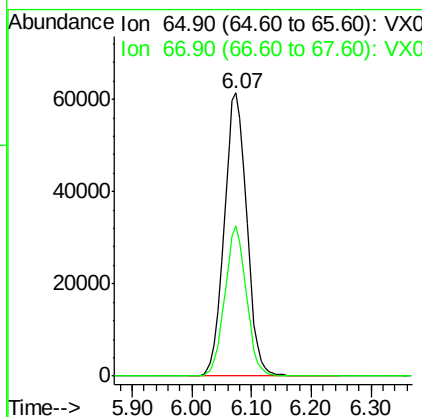
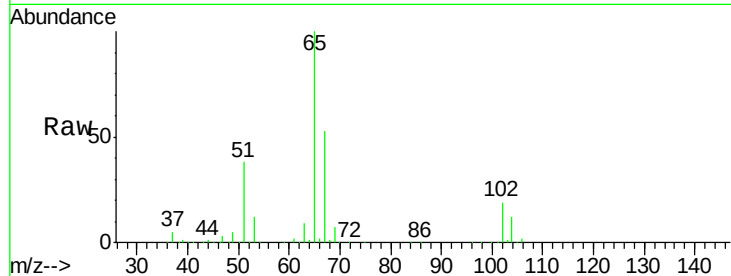




#33
 1,2-Dichloroethane-d4
 Concen: 47.57 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. -0.00 min
 Lab File: VX002305.D
 Acq: 05 Jun 2018 15:04

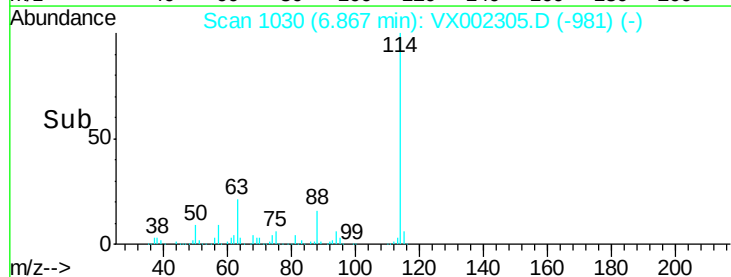
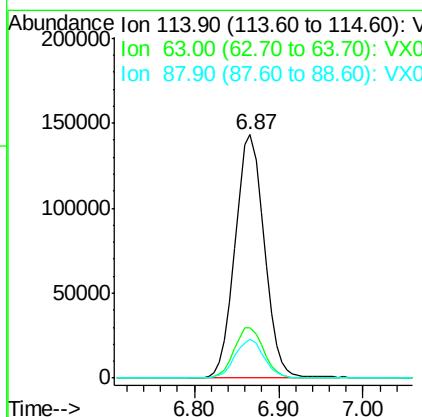
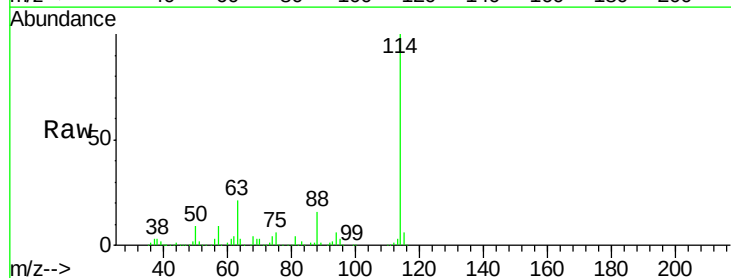
Instrument :
 MSVOA_X
 ClientSampleId :
 LF6-TB-2018-2

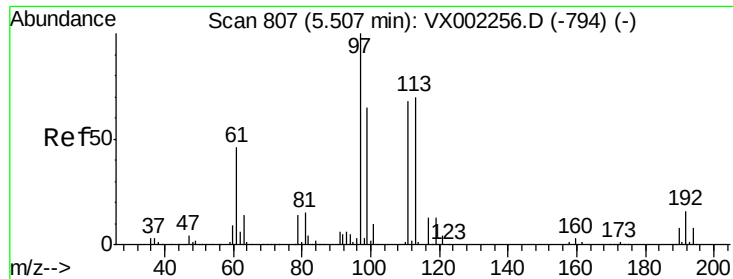
Tot Ion: 65 Resp: 161360
 Ion Ratio Lower Upper
 65 100
 67 50.9 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX002305.D
 Acq: 05 Jun 2018 15:04

Tgt Ion: 114 Resp: 336368
 Ion Ratio Lower Upper
 114 100
 63 20.6 0.0 41.4
 88 15.7 0.0 30.0

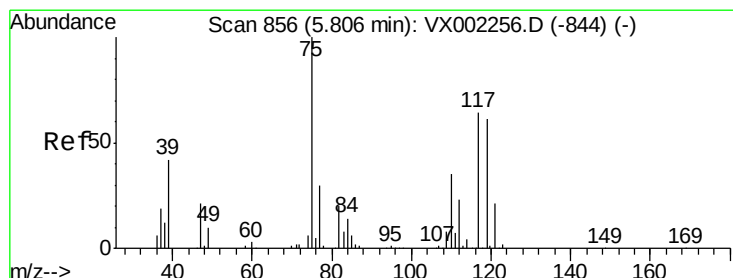
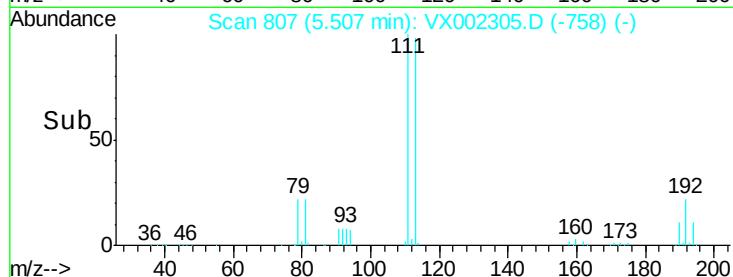
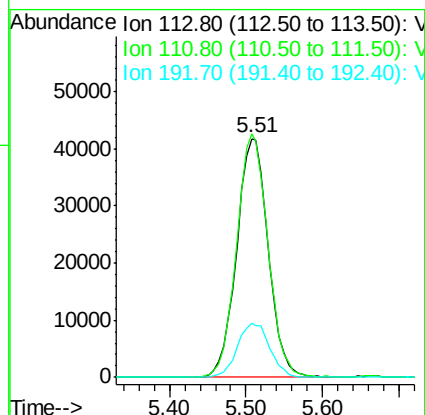
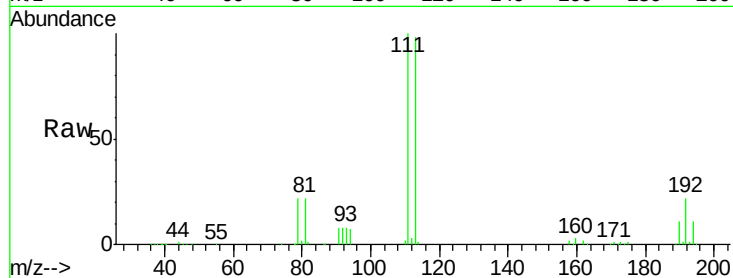




#35
 Dibromofluoromethane
 Concen: 45.08 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. -0.00 min
 Lab File: VX002305.D
 Acq: 05 Jun 2018 15:04

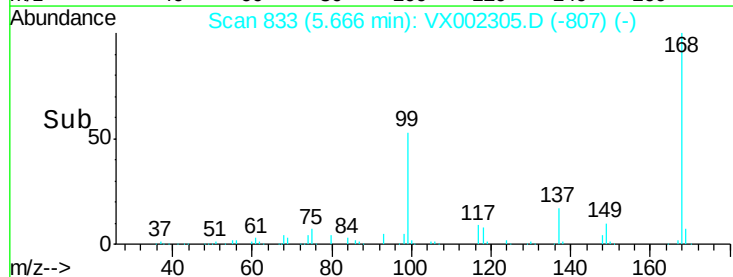
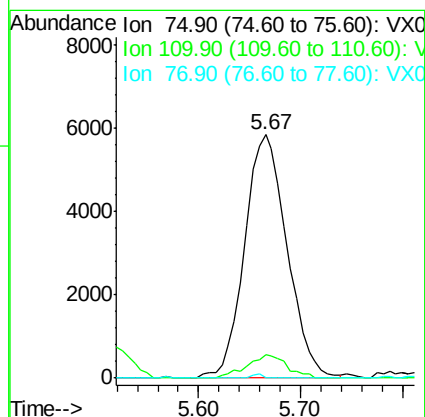
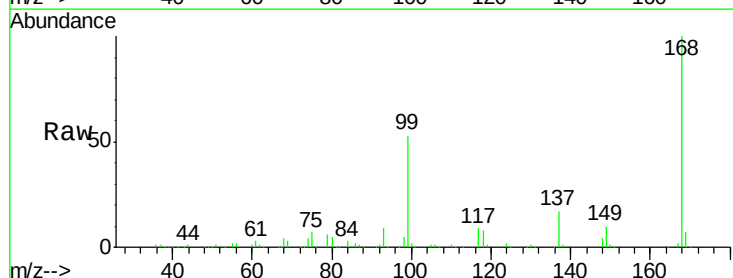
Instrument :
 MSVOA_X
 ClientSampled :
 LF6-TB-2018-2

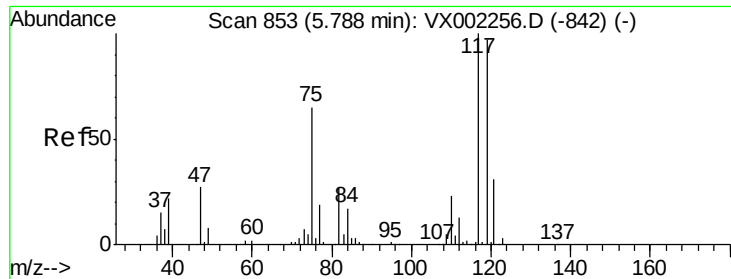
Tot Ion:113 Resp: 119244
 Ion Ratio Lower Upper
 113 100
 111 101.0 81.4 122.0
 192 23.2 19.1 28.7



#36
 1,1-Dichloropropene
 Concen: 4.77 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.14 min
 Lab File: VX002305.D
 Acq: 05 Jun 2018 15:04

Tgt Ion: 75 Resp: 16862
 Ion Ratio Lower Upper
 75 100
 110 9.0 18.1 54.4#
 77 0.4 24.3 36.5#





#38

Carbon Tetrachloride

Concen: 5.79 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX002305.D

Acq: 05 Jun 2018 15:04

Instrument :

MSVOA_X

ClientSampleId :

LF6-TB-2018-2

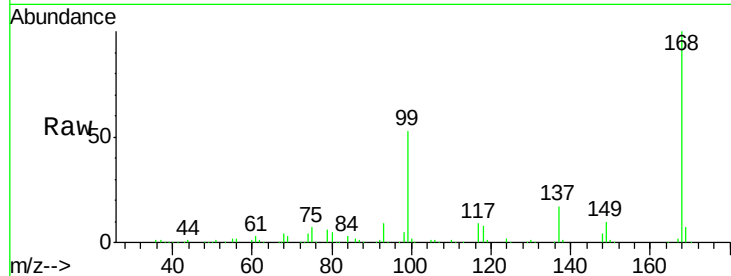
Tot Ion:117 Resp: 21415

Ion Ratio Lower Upper

117 100

119 5.7 77.4 116.0#

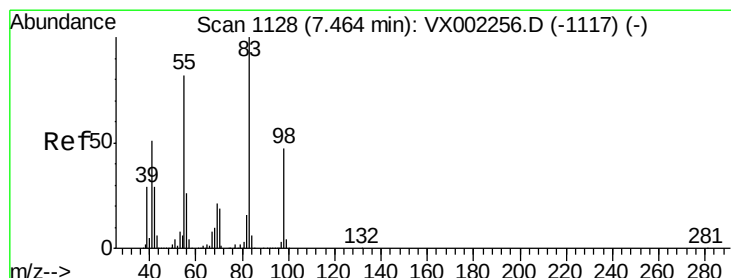
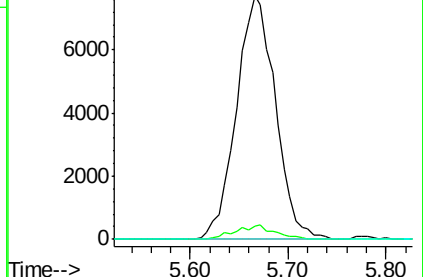
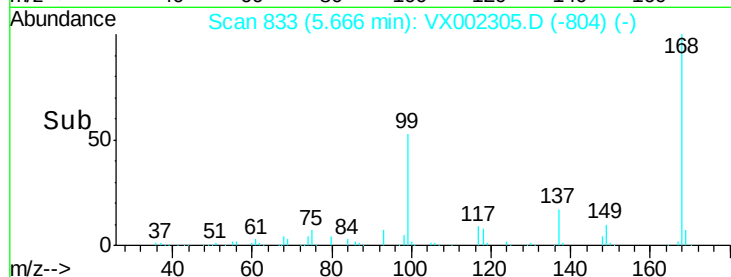
121 0.0 24.4 36.6#



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: 0.28 ug/l

RT: 7.46 min Scan# 1127

Delta R.T. -0.01 min

Lab File: VX002305.D

Acq: 05 Jun 2018 15:04

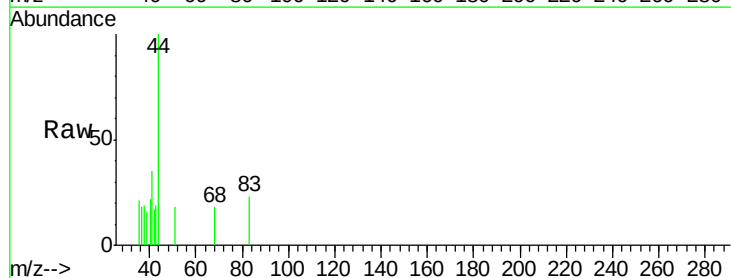
Tgt Ion: 83 Resp: 86

Ion Ratio Lower Upper

83 100

55 0.0 65.4 98.0#

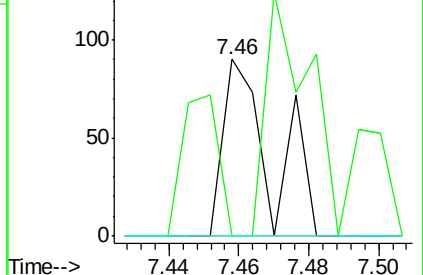
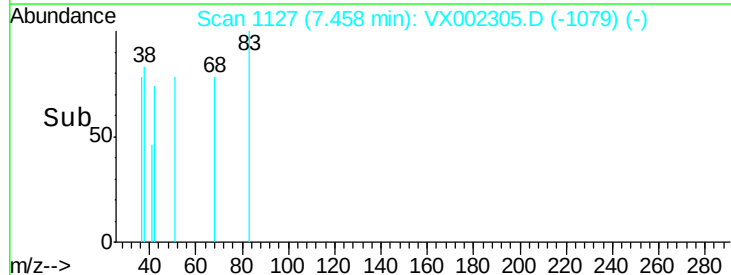
98 0.0 37.4 56.0#

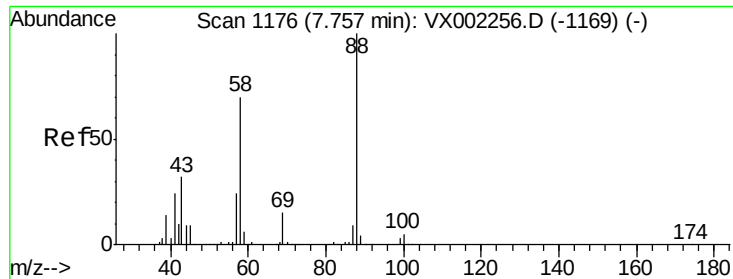


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0

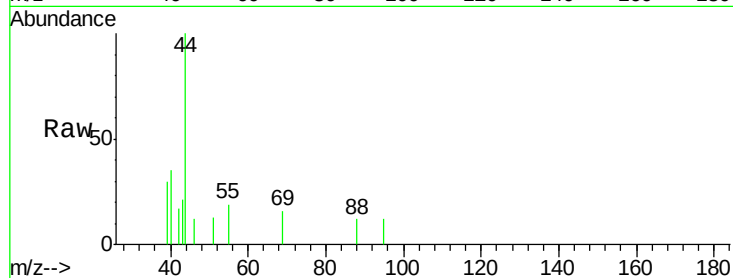




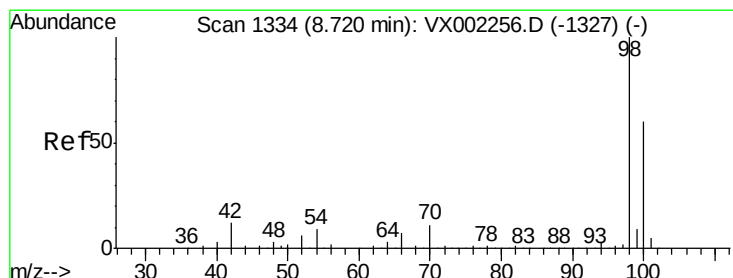
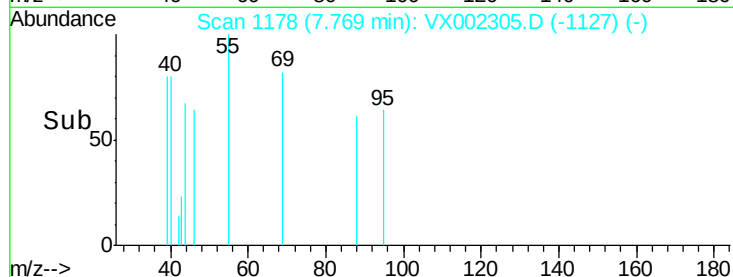
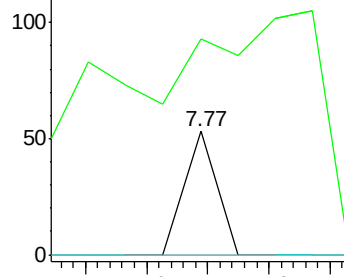
#49
1,4-Dioxane
Concen: 0.28 ug/l
RT: 7.77 min Scan# 1178
Delta R.T. 0.01 min
Lab File: VX002305.D
Acq: 05 Jun 2018 15:04

Instrument :
MSVOA_X
ClientSampleId :
LF6-TB-2018-2

Tot Ion: 88 Resp: 19
Ion Ratio Lower Upper
88 100
43 1263.2 29.8 44.6#
58 0.0 57.1 85.7#

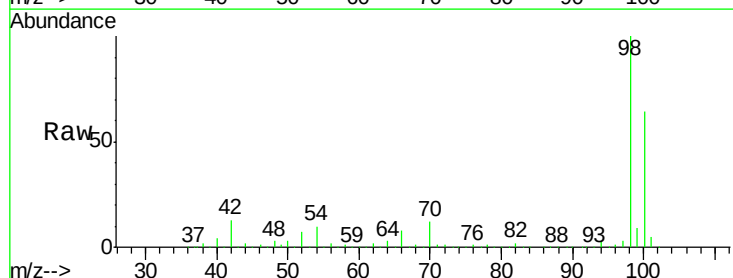


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

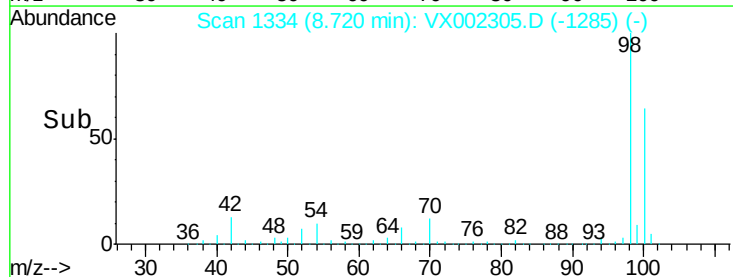
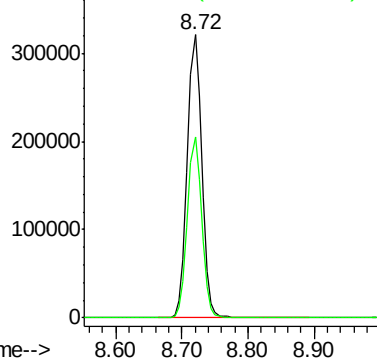


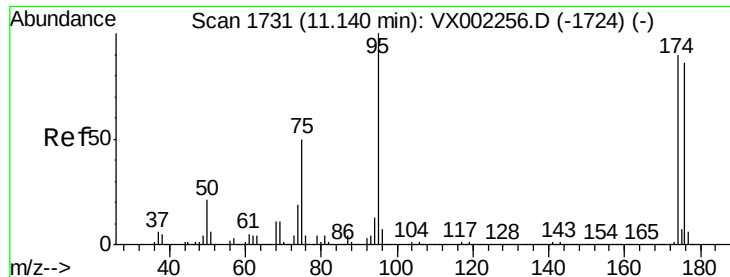
#50
Toluene-d8
Concen: 47.97 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX002305.D
Acq: 05 Jun 2018 15:04

Tgt Ion: 98 Resp: 486346
Ion Ratio Lower Upper
98 100
100 63.3 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): VX0

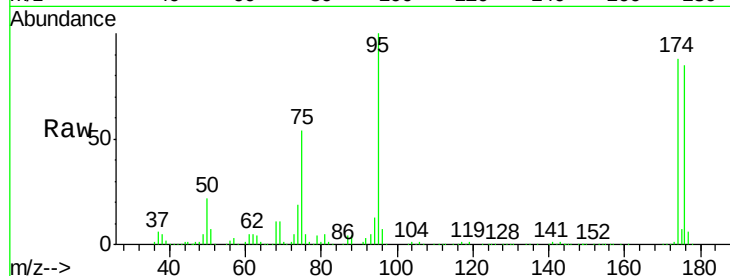




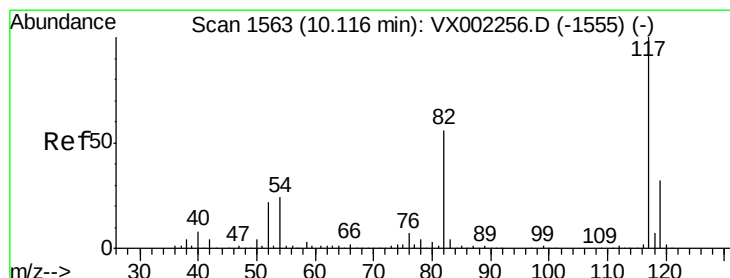
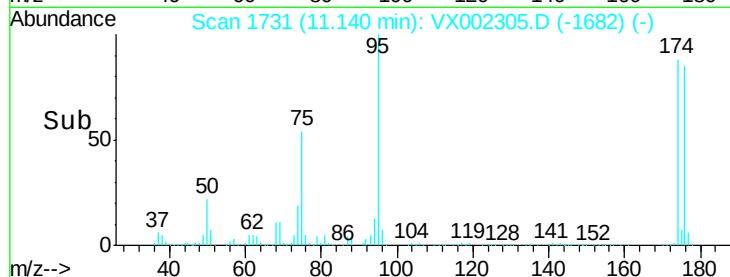
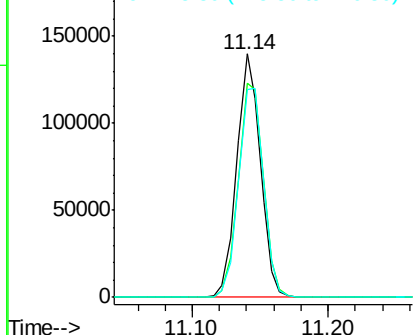
#62
4-Bromofluorobenzene
Concen: 43.11 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.00 min
Lab File: VX002305.D
Acq: 05 Jun 2018 15:04

Instrument :
MSVOA_X
ClientSampleId :
LF6-TB-2018-2

Tot Ion: 95 Resp: 168538
Ion Ratio Lower Upper
95 100
174 93.6 0.0 187.4
176 91.7 0.0 181.0

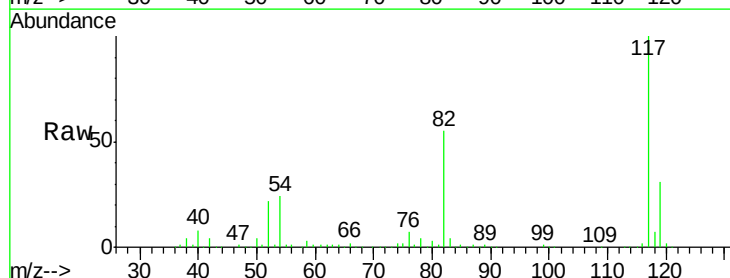


Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

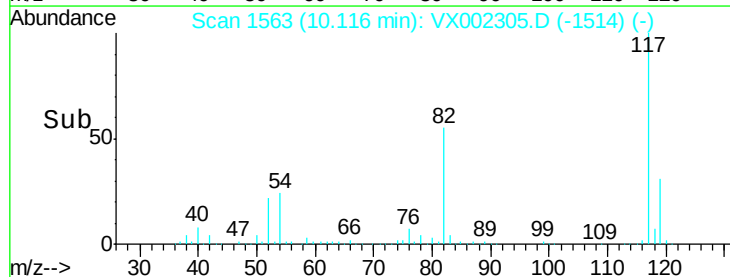
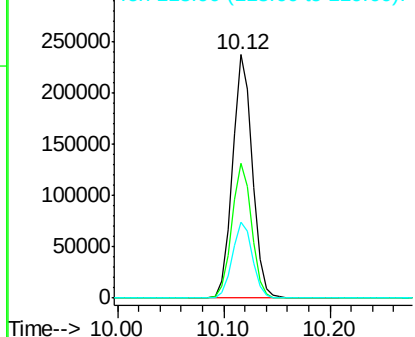


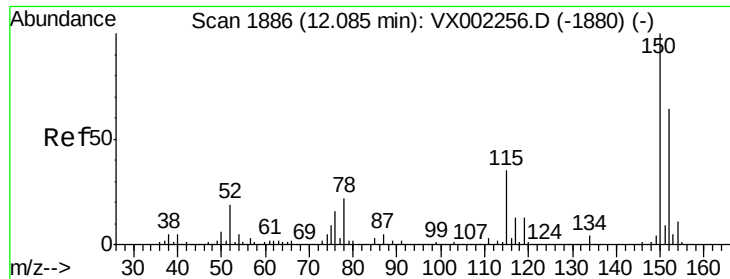
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002305.D
Acq: 05 Jun 2018 15:04

Tgt Ion: 117 Resp: 309727
Ion Ratio Lower Upper
117 100
82 55.1 45.0 67.4
119 31.4 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





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002305.D

Acq: 05 Jun 2018 15:04

Instrument :

MSVOA_X

ClientSampleId :

LF6-TB-2018-2

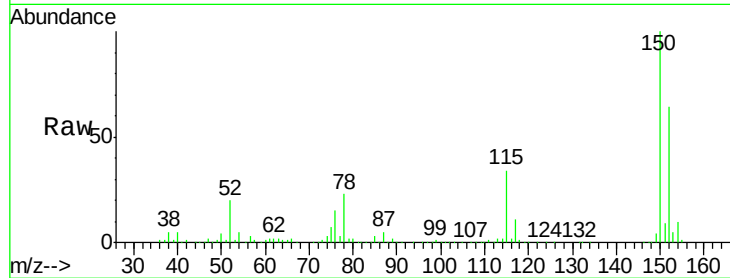
Tot Ion:152 Resp: 173114

Ion Ratio Lower Upper

152 100

115 55.5 40.1 120.2

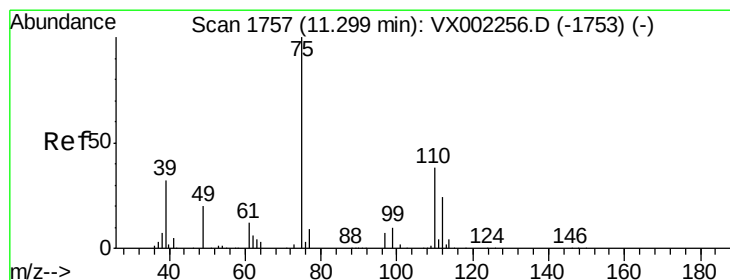
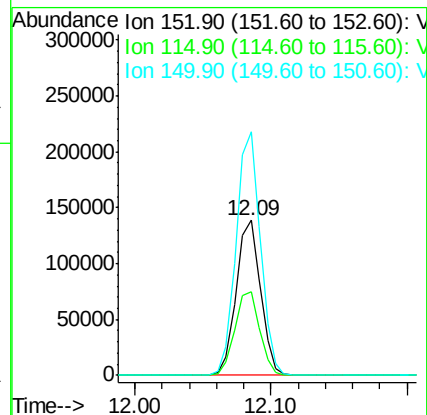
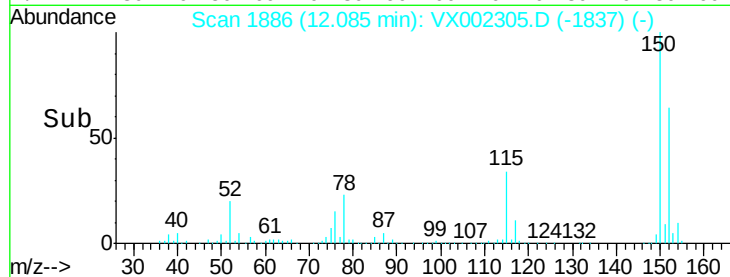
150 156.6 0.0 347.2



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: 24.26 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002305.D

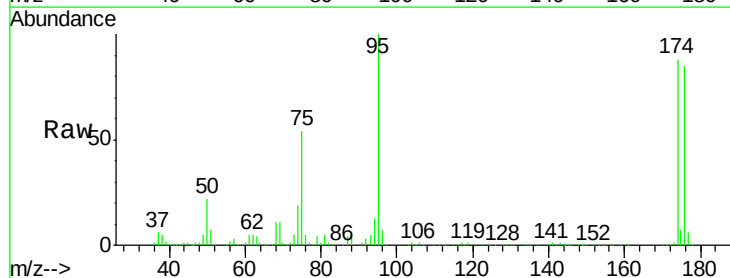
Acq: 05 Jun 2018 15:04

Tgt Ion: 75 Resp: 92137

Ion Ratio Lower Upper

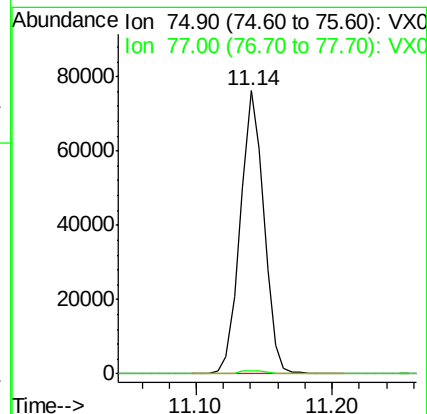
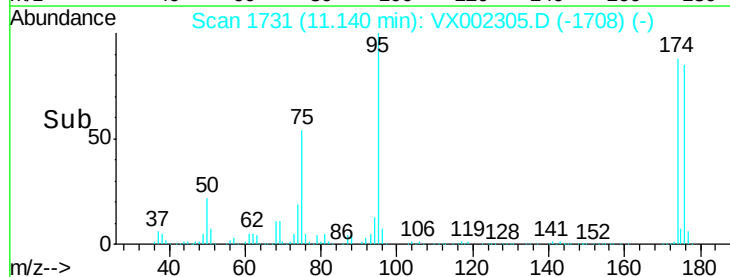
75 100

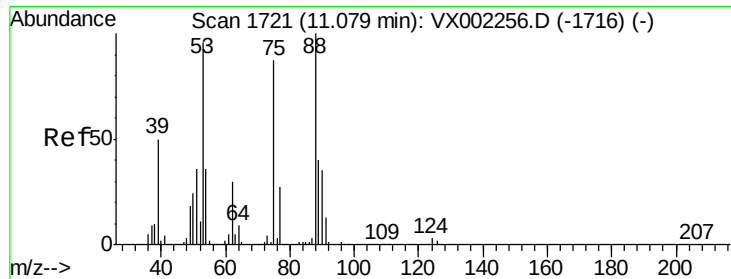
77 1.4 22.8 68.3#



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: 85.02 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX002305.D
 Acq: 05 Jun 2018 15:04

Instrument :
 MSVOA_X
 ClientSampleId :
 LF6-TB-2018-2

Tot Ion: 75 Resp: 92137
 Ion Ratio Lower Upper
 75 100
 53 0.0 86.8 130.2#
 89 0.1 38.2 57.2#

