

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX061218\
 Data File : VX002462.D
 Acq On : 12 Jun 2018 13:18
 Operator : JC/MD
 Sample : J3402-07
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LF5-TB-2018-2

Quant Time: Jun 12 13:36:20 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	208062	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	307605	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	283108	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	157366	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	165930	56.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.40%	
35) Dibromofluoromethane	5.51	113	125652	51.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.88%	
50) Toluene-d8	8.72	98	482107	52.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.00%	
62) 4-Bromofluorobenzene	11.14	95	166119	46.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.92%	

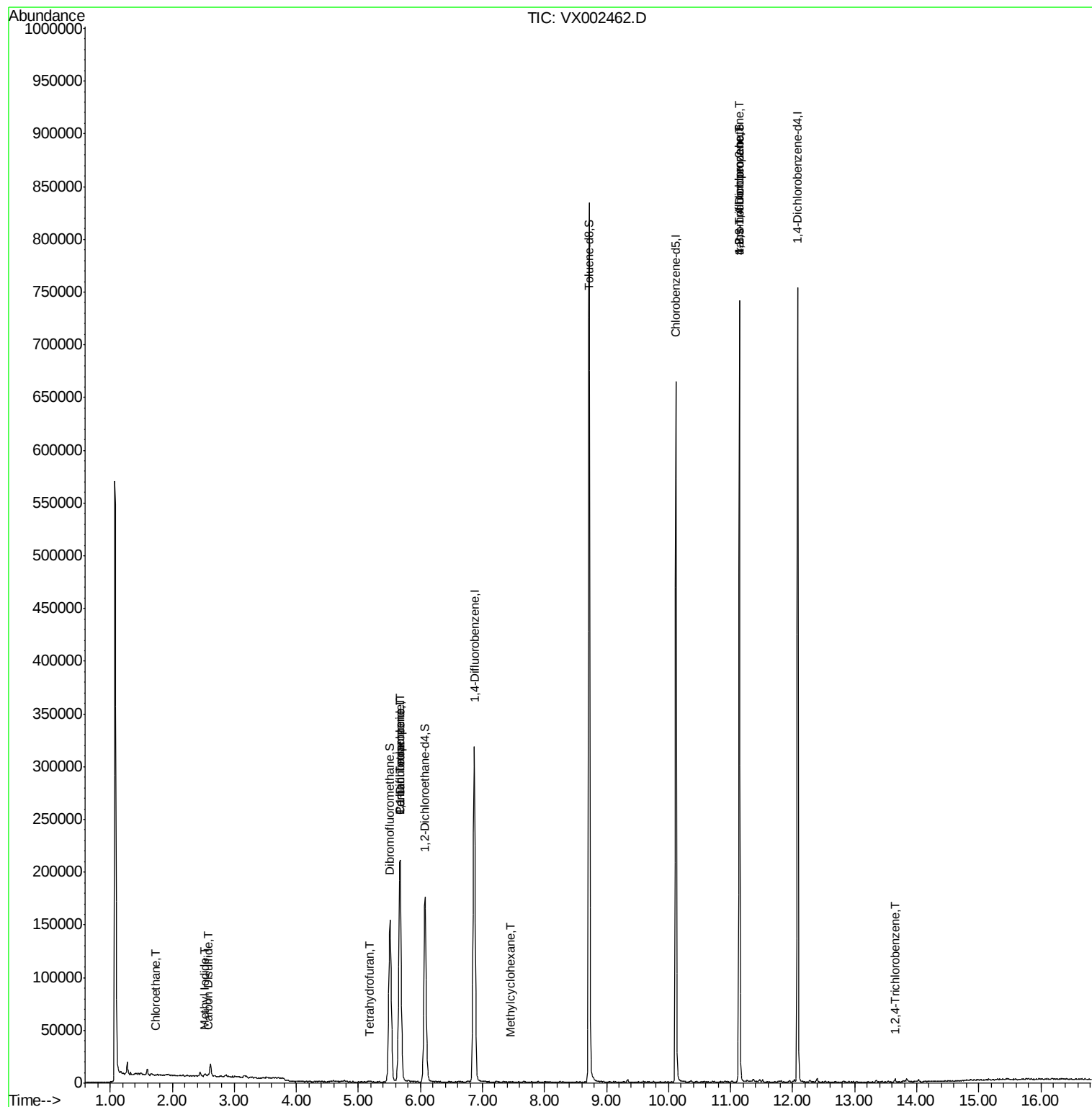
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1063	Below Cal		99
5) Bromomethane	1.61	94	185	Below Cal	#	47
6) Chloroethane	1.73	64	933	0.53	ug/l	59
8) Diethyl Ether	2.18	74	25	Below Cal	#	1
10) Methyl Iodide	2.52	142	2822	0.90	ug/l	98
11) Tert butyl alcohol	3.09	59	245	Below Cal	#	17
13) Acrolein	2.29	56	165	Below Cal	#	1
15) Acrylonitrile	3.15	53	588	Below Cal	#	60
16) Acetone	2.45	43	4368	Below Cal	#	94
17) Carbon Disulfide	2.57	76	1566	0.27	ug/l	76
18) Methyl Acetate	2.79	43	279	Below Cal	#	33
19) Methyl tert-butyl Ether	3.16	73	87	Below Cal	#	54
20) Methylene Chloride	2.87	84	700	Below Cal	#	82
22) Diisopropyl ether	3.86	45	210	Below Cal	#	71
28) Bromochloromethane	5.03	49	131	Below Cal	#	13
29) Tetrahydrofuran	5.18	42	502	0.38	ug/l	68
36) 1,1-Dichloropropene	5.67	75	15204	4.70	ug/l	41
38) Carbon Tetrachloride	5.67	117	20067	5.93	ug/l	15
39) Methylcyclohexane	7.45	83	119	0.29	ug/l	30
76) 1,2,3-Trichloropropane	11.14	75	91478	26.49	ug/l	33
81) trans-1,4-Dichloro-2-buten	11.14	75	91478	92.86	ug/l	7
93) 1,2,4-Trichlorobenzene	13.65	180	872	0.22	ug/l	83

(#) = 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. -0.01 min

Lab File: VX002462.D

Acq: 12 Jun 2018 13:18

Instrument :

MSVOA_X

ClientSampleId :

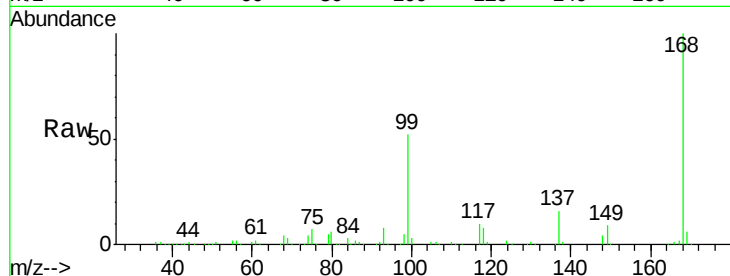
LF5-TB-2018-2

Tgt Ion:168 Resp: 208062

Ion Ratio Lower Upper

168 100

99 52.3 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

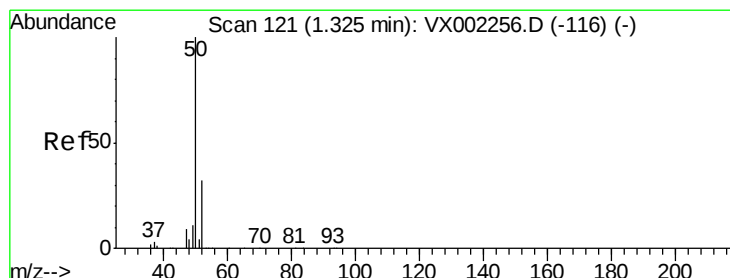
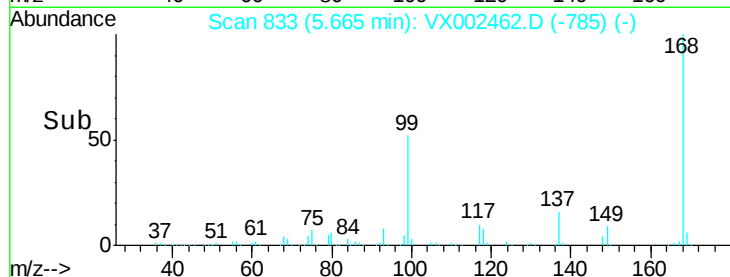
40000

20000

0

Time-->

5.60 5.70 5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX002462.D

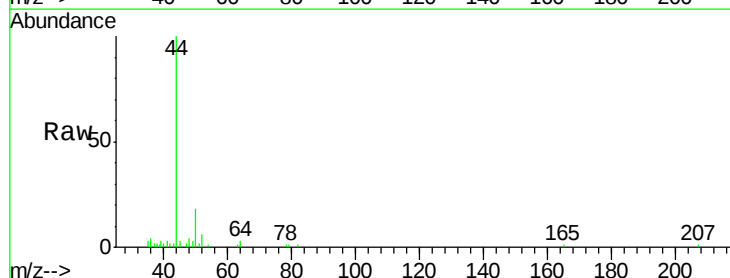
Acq: 12 Jun 2018 13:18

Tgt Ion: 50 Resp: 1063

Ion Ratio Lower Upper

50 100

52 31.4 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

1200

1000

800

600

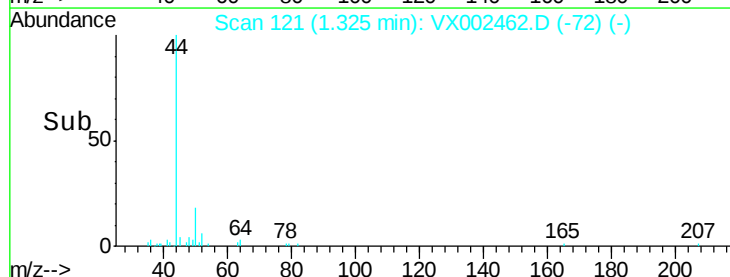
400

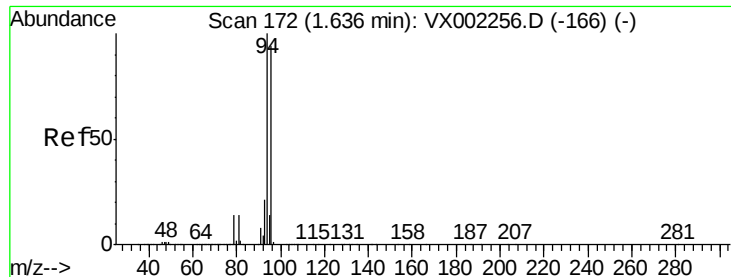
200

0

Time-->

1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.61 min Scan# 168

Delta R.T. -0.02 min

Lab File: VX002462.D

Acq: 12 Jun 2018 13:18

Instrument :

MSVOA_X

ClientSampleId :

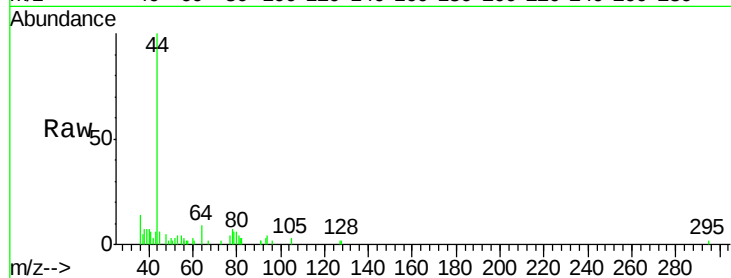
LF5-TB-2018-2

Tgt Ion: 94 Resp: 185

Ion Ratio Lower Upper

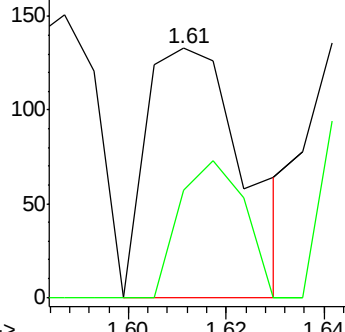
94 100

96 42.9 74.9 112.3#

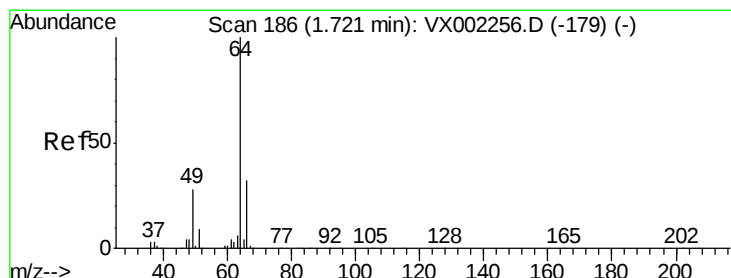
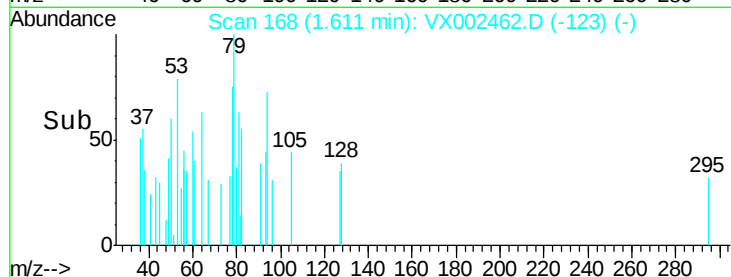


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time-->



#6

Chloroethane

Concen: 0.53 ug/l

RT: 1.73 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX002462.D

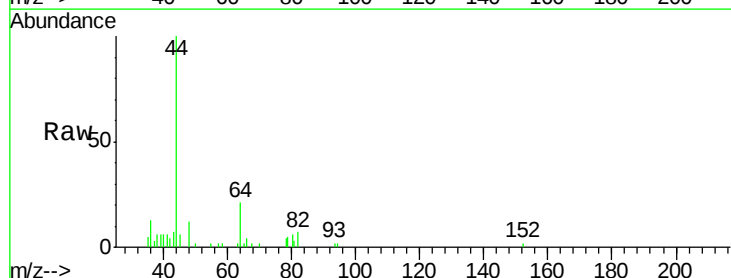
Acq: 12 Jun 2018 13:18

Tgt Ion: 64 Resp: 933

Ion Ratio Lower Upper

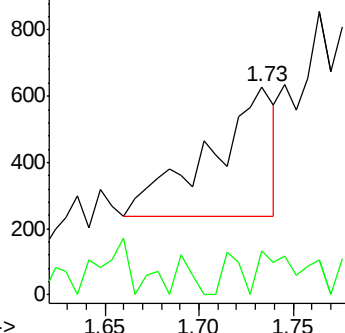
64 100

66 9.2 25.5 38.3#

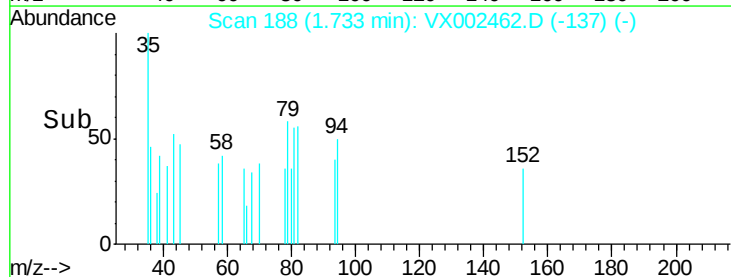


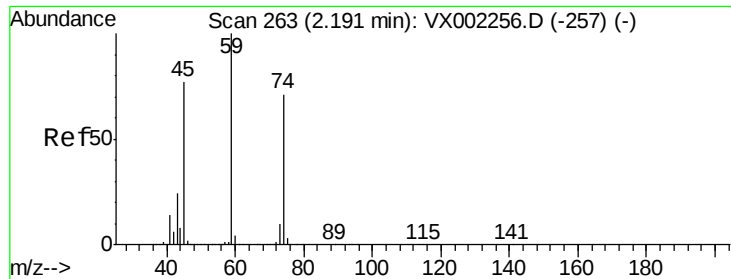
Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



Time-->





#8

Diethyl Ether

Concen: Below Cal

RT: 2.18 min Scan# 261

Delta R.T. -0.01 min

Lab File: VX002462.D

Acq: 12 Jun 2018 13:18

Instrument :

MSVOA_X

ClientSampleId :

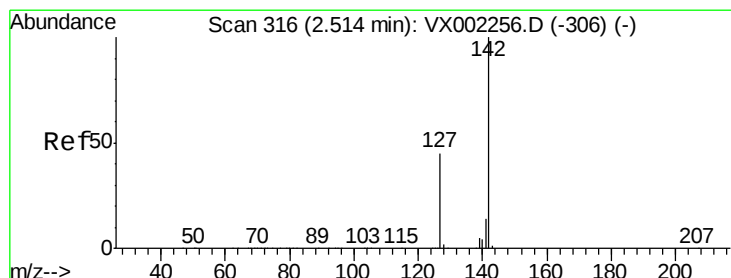
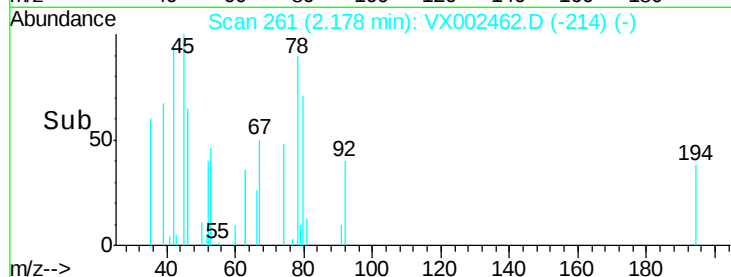
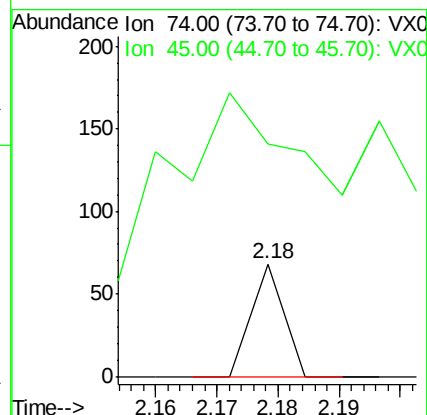
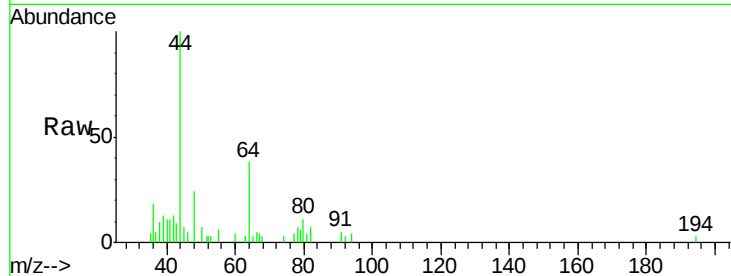
LF5-TB-2018-2

Tgt Ion: 74 Resp: 25

Ion Ratio Lower Upper

74 100

45 912.0 53.1 159.4#



#10

Methyl Iodide

Concen: 0.90 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX002462.D

Acq: 12 Jun 2018 13:18

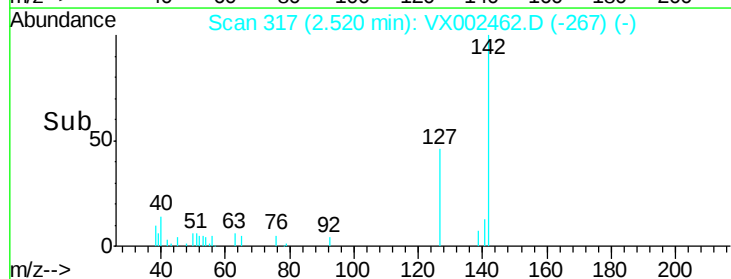
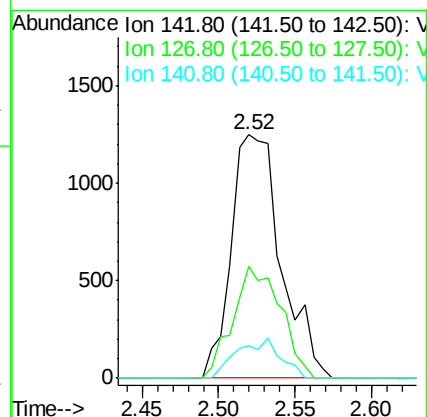
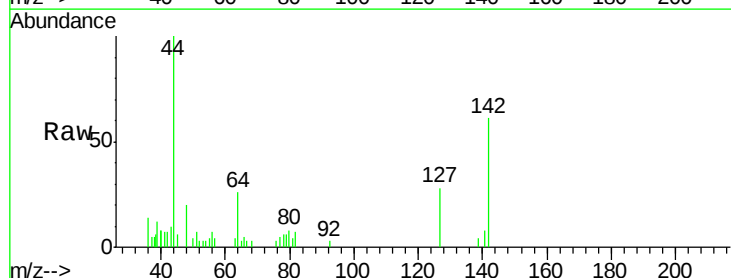
Tgt Ion: 142 Resp: 2822

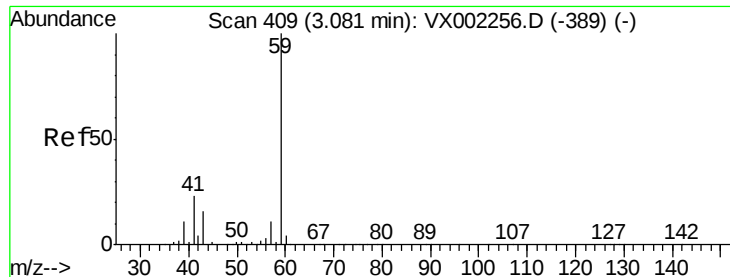
Ion Ratio Lower Upper

142 100

127 44.0 36.6 55.0

141 14.3 11.3 16.9

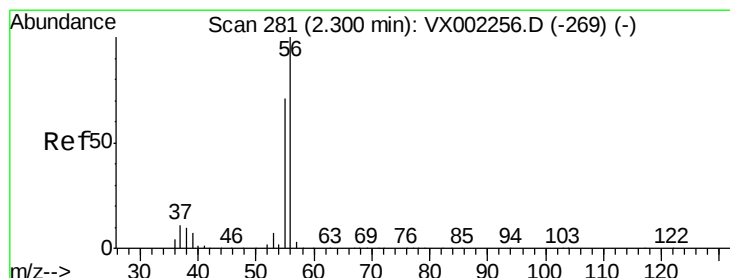
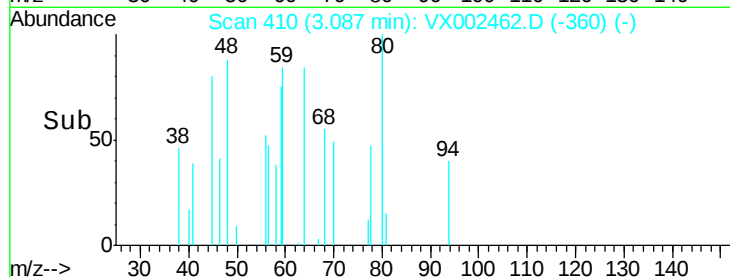
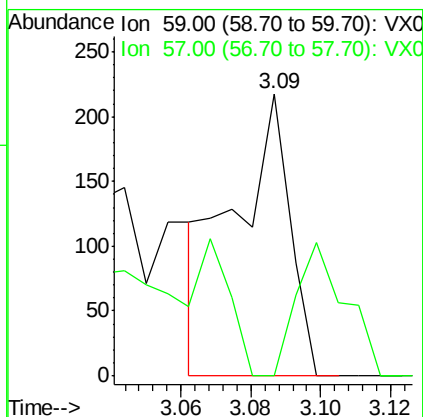
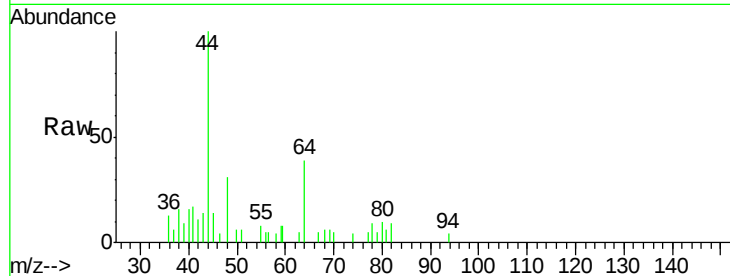




#11
Tert butyl alcohol
Concen: Below Cal
RT: 3.09 min Scan# 410
Delta R.T. 0.01 min
Lab File: VX002462.D
Acq: 12 Jun 2018 13:18

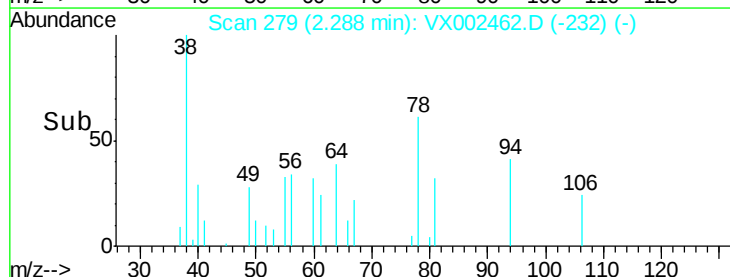
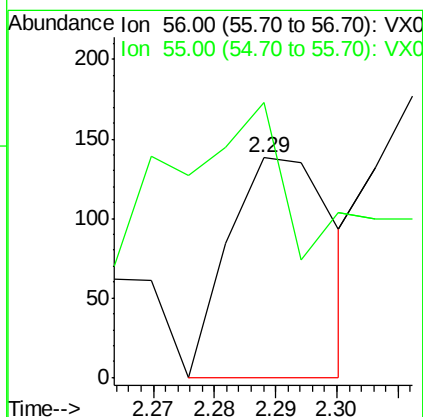
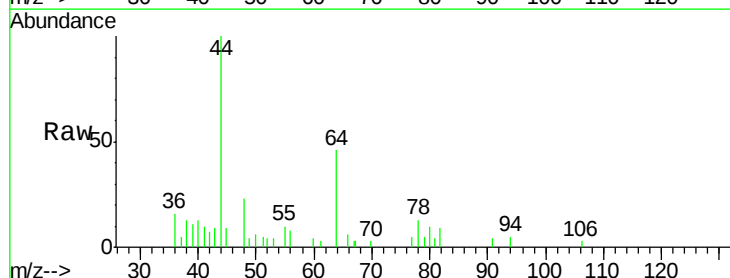
Instrument :
MSVOA_X
ClientSampleId :
LF5-TB-2018-2

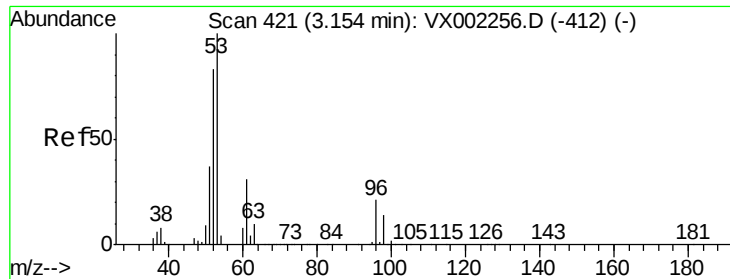
Tgt Ion: 59 Resp: 245
Ion Ratio Lower Upper
59 100
57 41.2 8.2 12.2#



#13
Acrolein
Concen: Below Cal
RT: 2.29 min Scan# 279
Delta R.T. -0.01 min
Lab File: VX002462.D
Acq: 12 Jun 2018 13:18

Tgt Ion: 56 Resp: 165
Ion Ratio Lower Upper
56 100
55 206.7 57.0 85.4#





#15

Acrylonitrile

Concen: Below Cal

RT: 3.15 min Scan# 420

Delta R.T. -0.01 min

Lab File: VX002462.D

Acq: 12 Jun 2018 13:18

Instrument :

MSVOA_X

ClientSampleId :

LF5-TB-2018-2

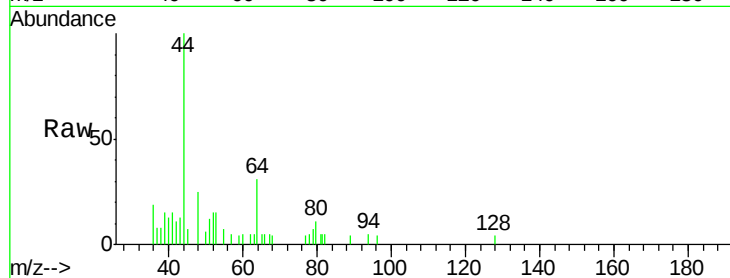
Tgt Ion: 53 Resp: 588

Ion Ratio Lower Upper

53 100

52 118.7 66.7 100.1#

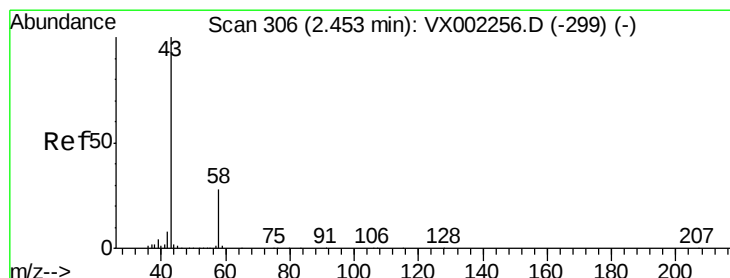
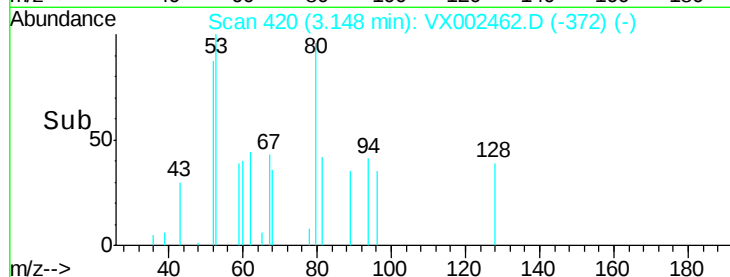
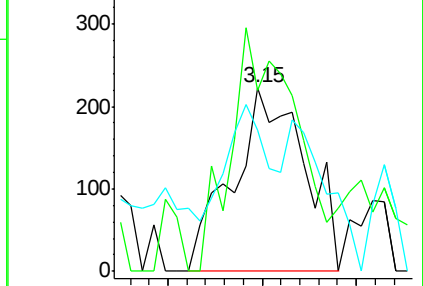
51 61.9 29.9 44.9#



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002462.D

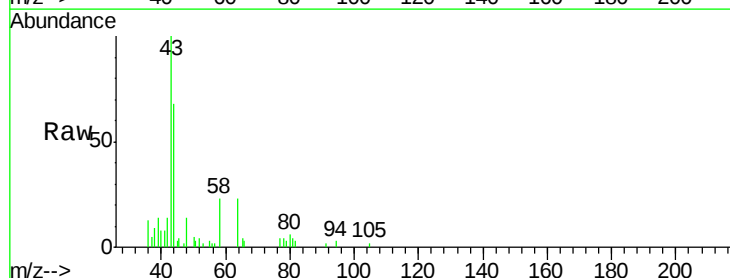
Acq: 12 Jun 2018 13:18

Tgt Ion: 43 Resp: 4368

Ion Ratio Lower Upper

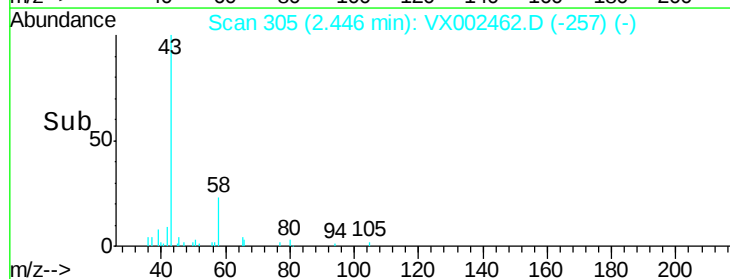
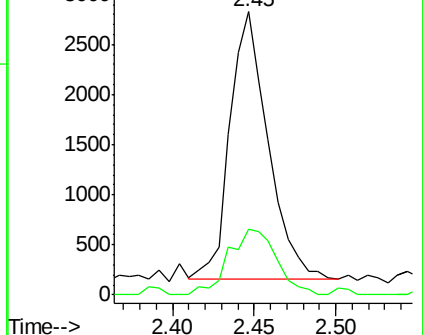
43 100

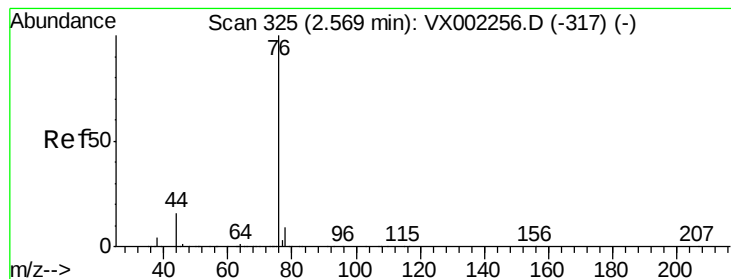
58 24.3 22.1 33.1



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: VX002462.D

Acq: 12 Jun 2018 13:18

Instrument :

MSVOA_X

ClientSampleId :

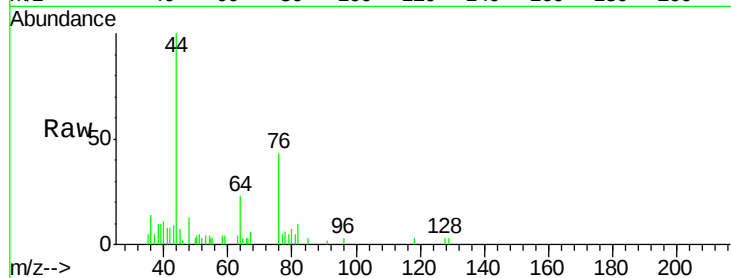
LF5-TB-2018-2

Tgt Ion: 76 Resp: 1566

Ion Ratio Lower Upper

76 100

78 0.0 6.9 10.3#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

1000

800

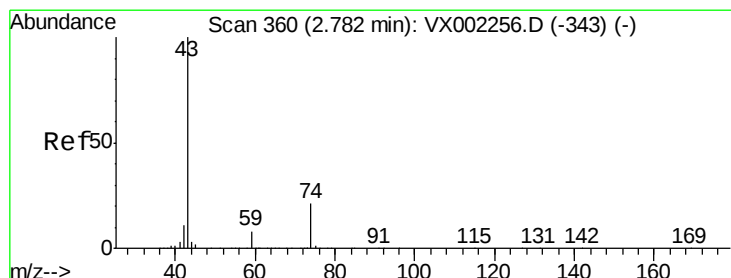
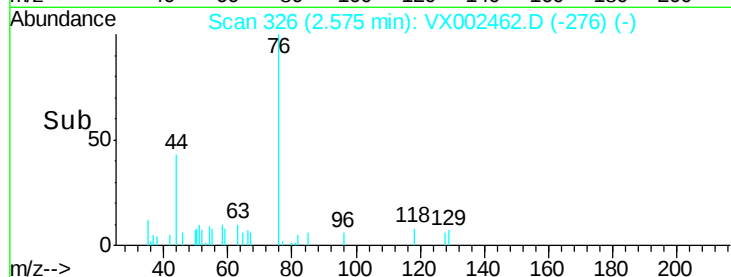
600

400

200

0

Time--> 2.50 2.55 2.60 2.65



#18

Methyl Acetate

Concen: Below Cal

RT: 2.79 min Scan# 362

Delta R.T. 0.01 min

Lab File: VX002462.D

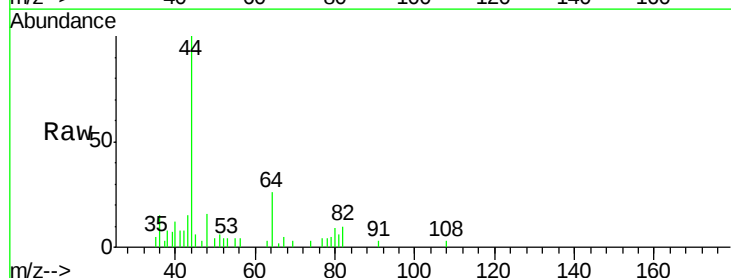
Acq: 12 Jun 2018 13:18

Tgt Ion: 43 Resp: 279

Ion Ratio Lower Upper

43 100

74 52.3 16.7 25.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.79

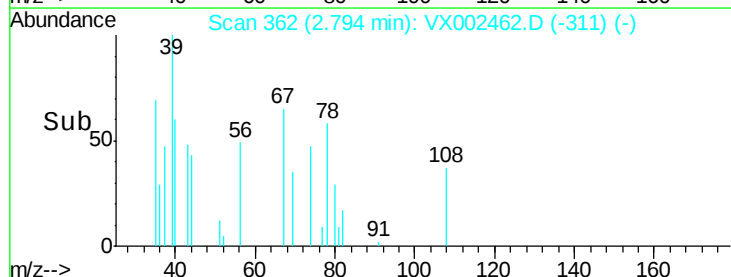
300

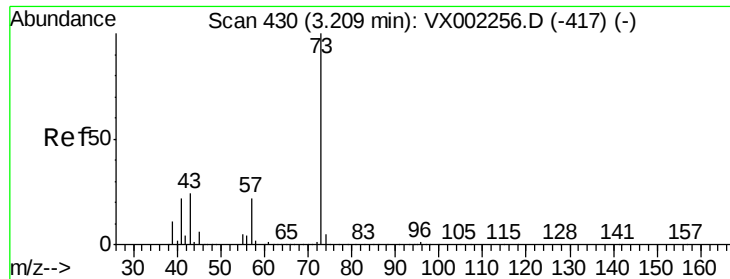
200

100

0

Time--> 2.74 2.76 2.78 2.80 2.82

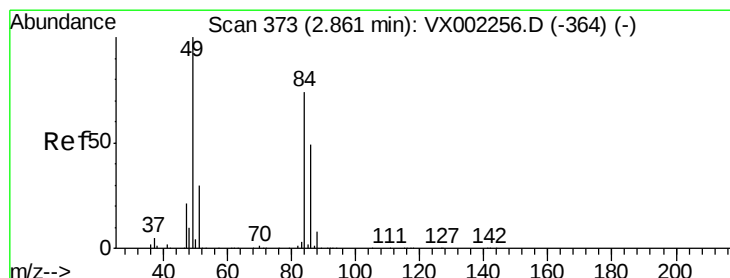
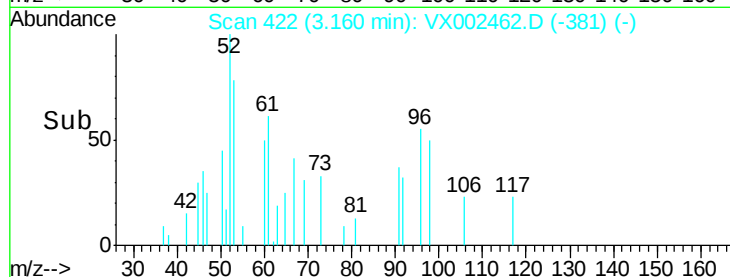
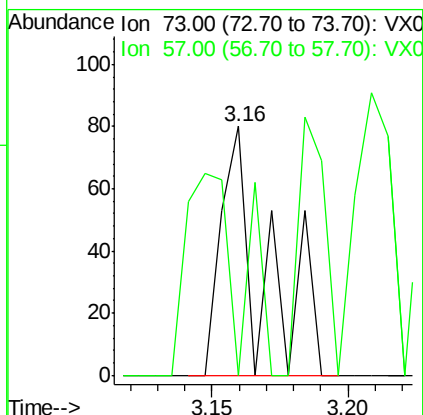
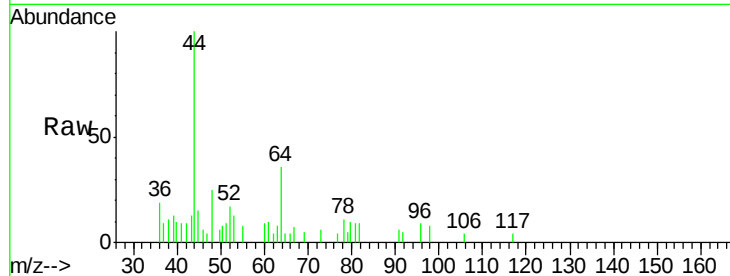




#19
Methyl tert-butyl Ether
Concen: Below Cal
RT: 3.16 min Scan# 422
Delta R.T. -0.05 min
Lab File: VX002462.D
Acq: 12 Jun 2018 13:18

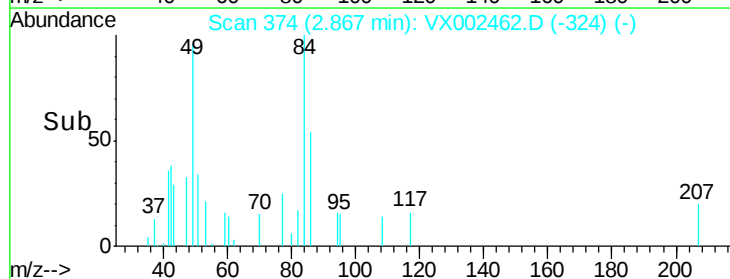
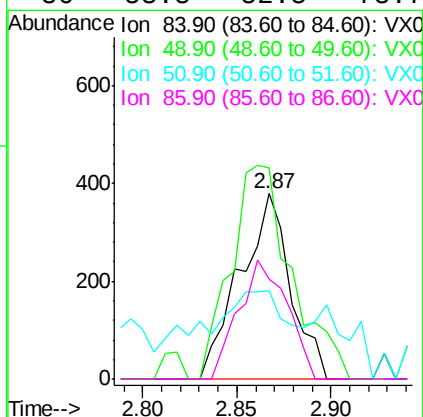
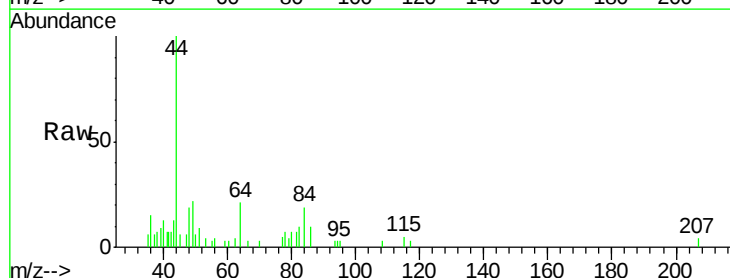
Instrument :
MSVOA_X
ClientSampled :
LF5-TB-2018-2

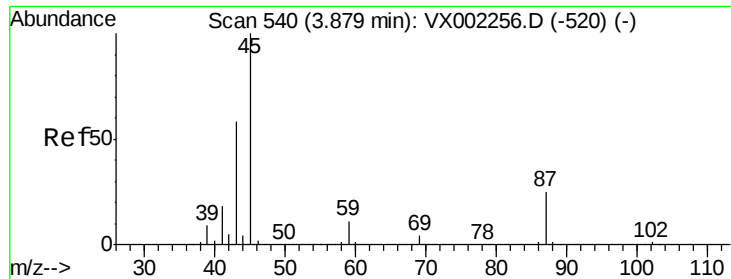
Tgt Ion: 73 Resp: 87
Ion Ratio Lower Upper
73 100
57 0.0 17.7 26.5#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.87 min Scan# 374
Delta R.T. 0.01 min
Lab File: VX002462.D
Acq: 12 Jun 2018 13:18

Tgt Ion: 84 Resp: 700
Ion Ratio Lower Upper
84 100
49 113.7 107.8 161.6
51 24.3 32.8 49.2#
86 53.8 52.5 78.7



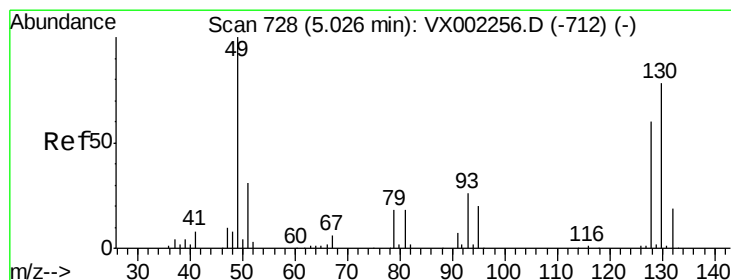
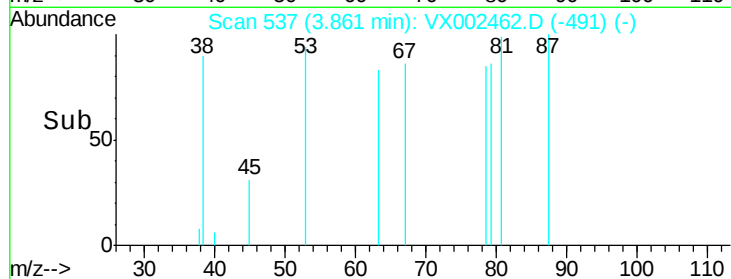
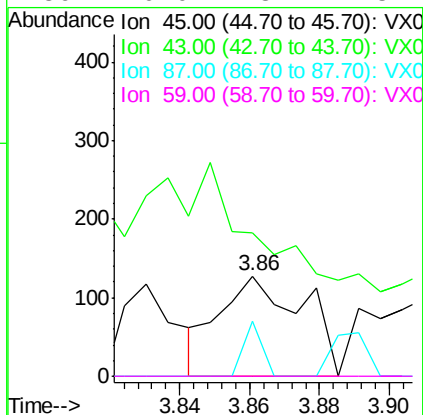
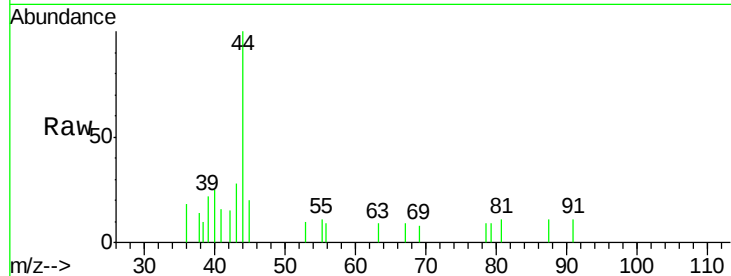


#22

Diisopropyl ether
Concen: Below Cal
RT: 3.86 min Scan# 537
Delta R.T. -0.02 min
Lab File: VX002462.D
Acq: 12 Jun 2018 13:18

Instrument :
MSVOA_X
ClientSampleId :
LF5-TB-2018-2

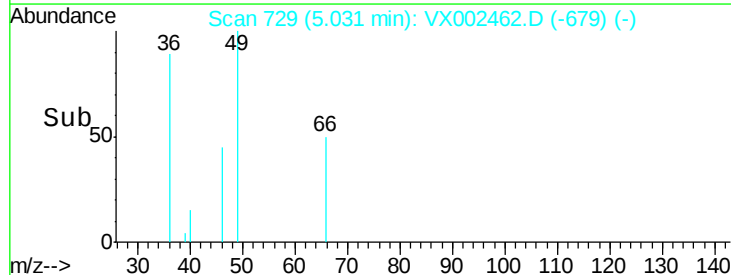
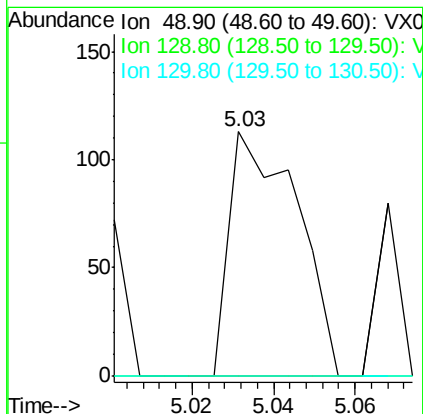
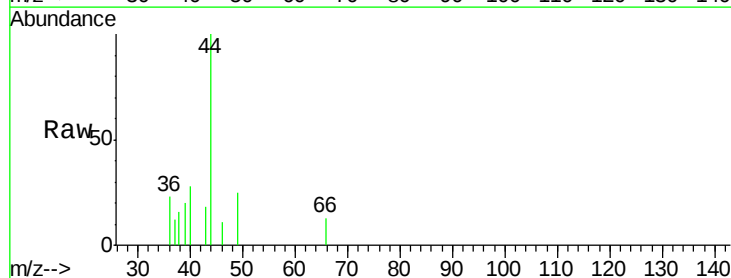
Tgt Ion:	45	Resp:	210
Ion	Ratio	Lower	Upper
45	100		
43	46.9	46.8	70.2
87	55.5	20.2	30.4#
59	0.0	8.7	13.1#

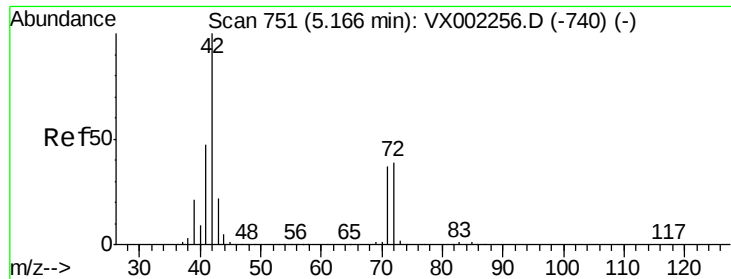


#28

Bromochloromethane
Concen: Below Cal
RT: 5.03 min Scan# 729
Delta R.T. 0.01 min
Lab File: VX002462.D
Acq: 12 Jun 2018 13:18

Tgt Ion:	49	Resp:	131
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.2
130	0.0	61.2	91.8#

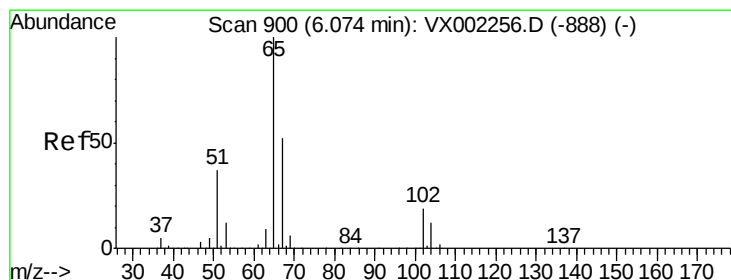
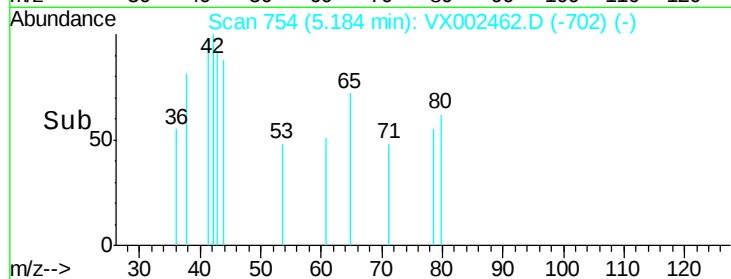
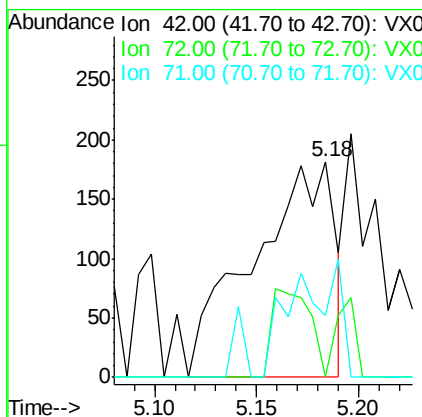
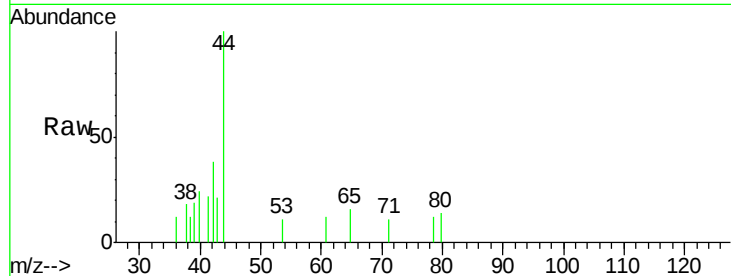




#29
Tetrahydrofuran
Concen: 0.38 ug/l
RT: 5.18 min Scan# 754
Delta R.T. 0.02 min
Lab File: VX002462.D
Acq: 12 Jun 2018 13:18

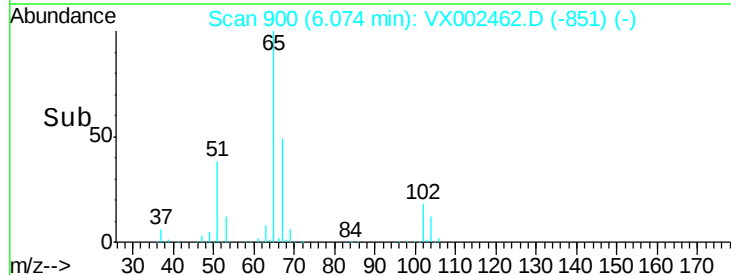
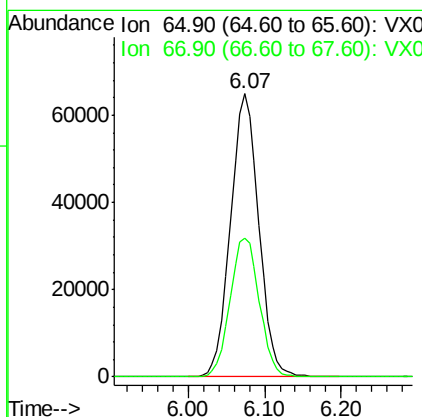
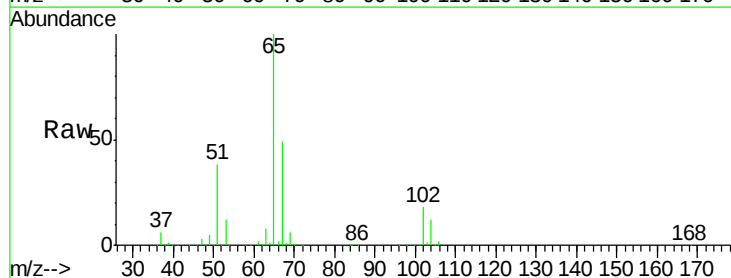
Instrument :
MSVOA_X
ClientSampled :
LF5-TB-2018-2

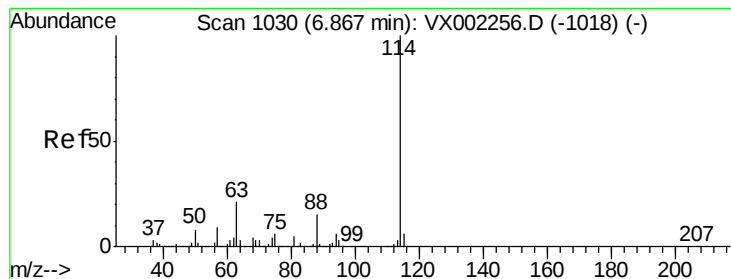
Tgt Ion: 42 Resp: 502
Ion Ratio Lower Upper
42 100
72 8.8 32.0 48.0#
71 30.7 30.1 45.1



#33
1,2-Dichloroethane-d4
Concen: 56.20 ug/l
RT: 6.07 min Scan# 900
Delta R.T. -0.00 min
Lab File: VX002462.D
Acq: 12 Jun 2018 13:18

Tgt Ion: 65 Resp: 165930
Ion Ratio Lower Upper
65 100
67 50.8 0.0 102.6





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX002462.D

Acq: 12 Jun 2018 13:18

Instrument :

MSVOA_X

ClientSampleId :

LF5-TB-2018-2

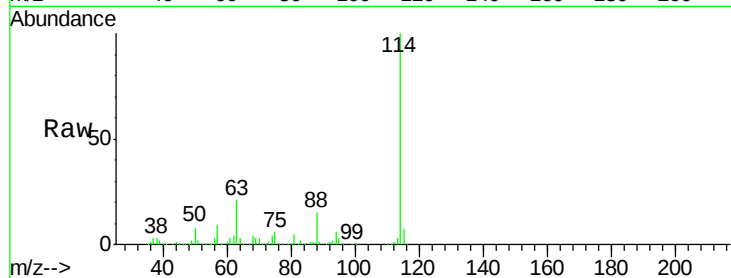
Tgt Ion:114 Resp: 307605

Ion Ratio Lower Upper

114 100

63 21.2 0.0 41.4

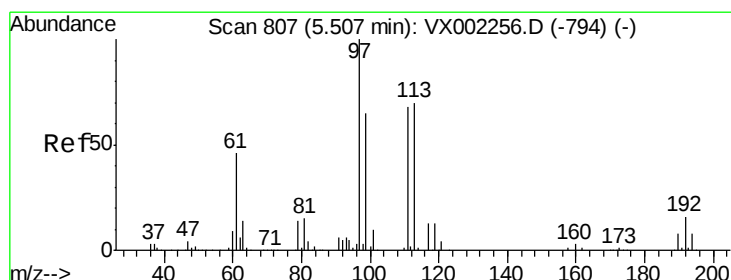
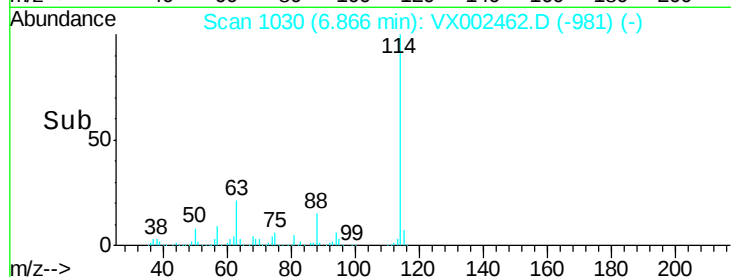
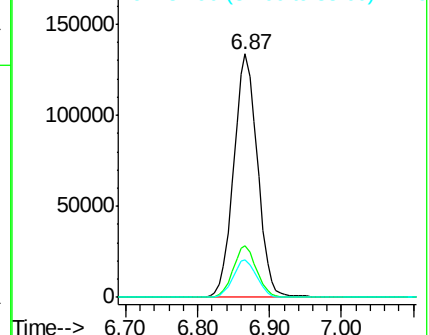
88 15.5 0.0 30.0



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: 51.94 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX002462.D

Acq: 12 Jun 2018 13:18

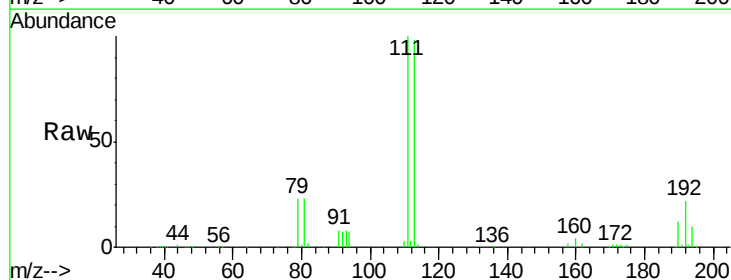
Tgt Ion:113 Resp: 125652

Ion Ratio Lower Upper

113 100

111 101.2 81.4 122.0

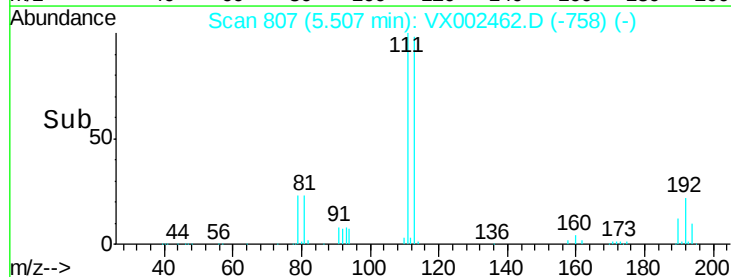
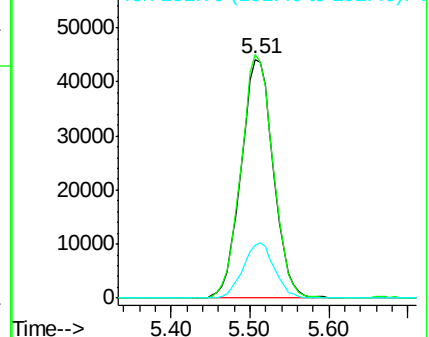
192 22.5 19.1 28.7

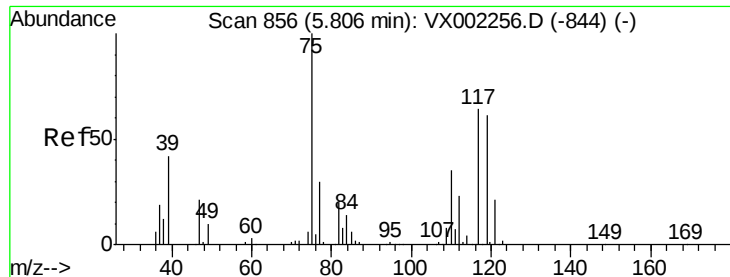


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

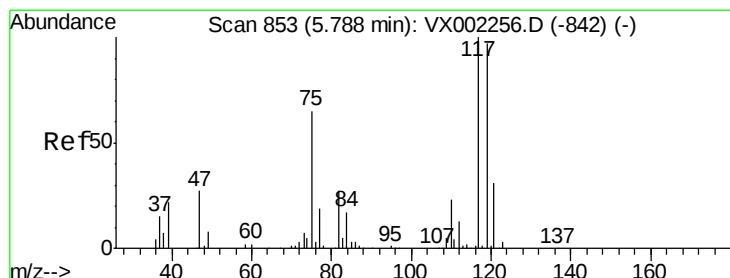
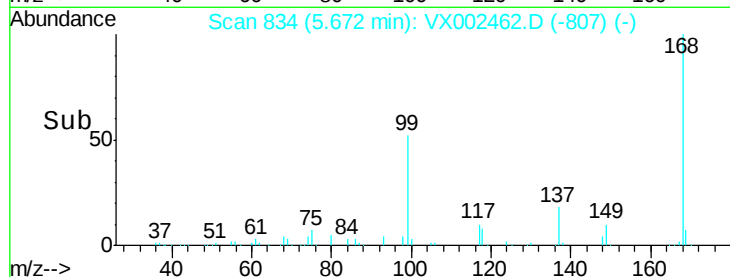
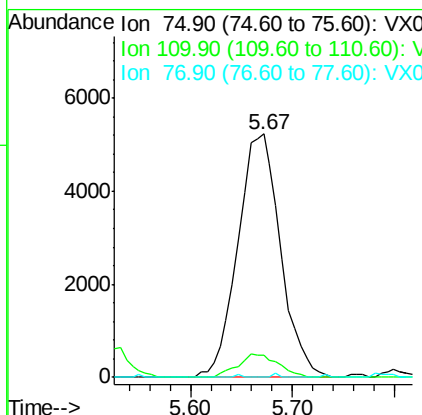
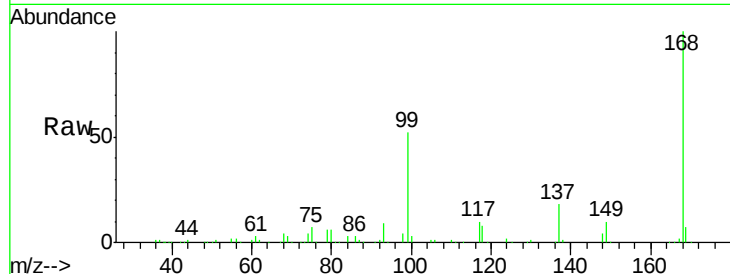




#36
 1,1-Dichloropropene
 Concen: 4.70 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.13 min
 Lab File: VX002462.D
 Acq: 12 Jun 2018 13:18

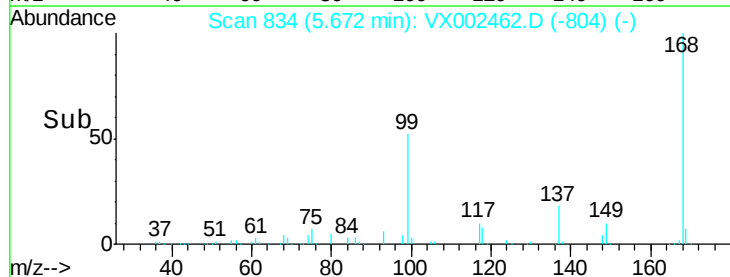
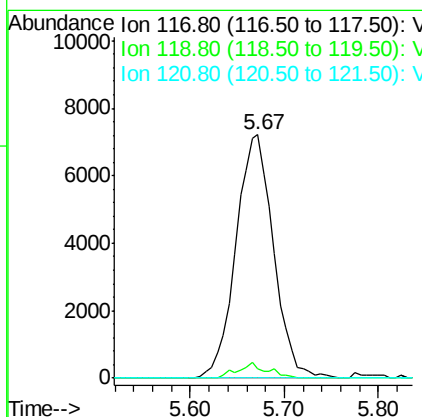
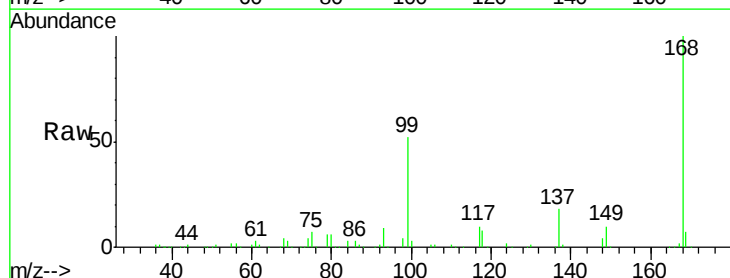
Instrument :
 MSVOA_X
 ClientSampleId :
 LF5-TB-2018-2

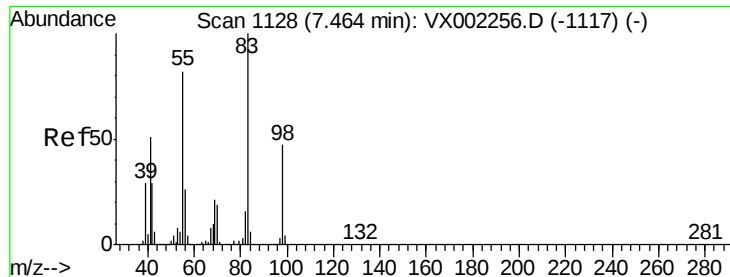
Tgt Ion: 75 Resp: 15204
 Ion Ratio Lower Upper
 75 100
 110 0.0 18.1 54.4#
 77 0.2 24.3 36.5#



#38
 Carbon Tetrachloride
 Concen: 5.93 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.12 min
 Lab File: VX002462.D
 Acq: 12 Jun 2018 13:18

Tgt Ion: 117 Resp: 20067
 Ion Ratio Lower Upper
 117 100
 119 3.7 77.4 116.0#
 121 0.0 24.4 36.6#

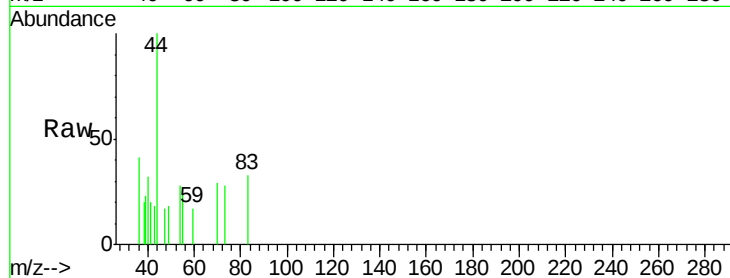




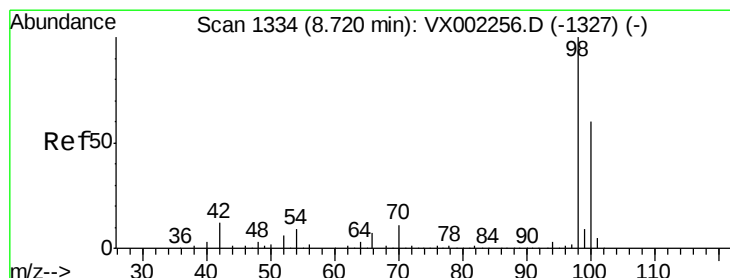
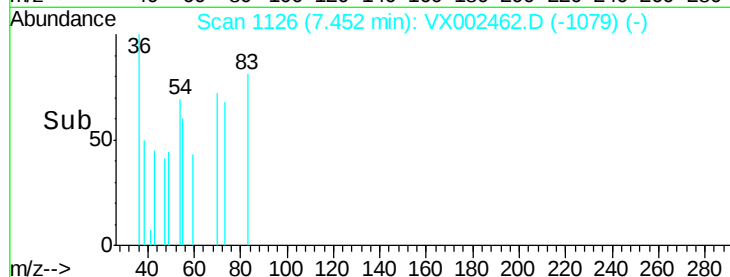
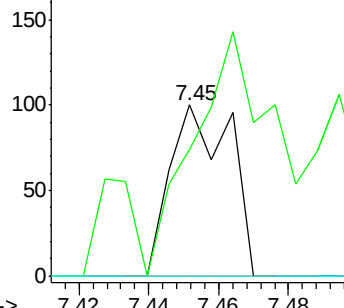
#39
Methylcyclohexane
Concen: 0.29 ug/l
RT: 7.45 min Scan# 1126
Delta R.T. -0.01 min
Lab File: VX002462.D
Acq: 12 Jun 2018 13:18

Instrument :
MSVOA_X
ClientSampleId :
LF5-TB-2018-2

Tgt Ion: 83 Resp: 119
Ion Ratio Lower Upper
83 100
55 19.0 65.4 98.0#
98 0.0 37.4 56.0#

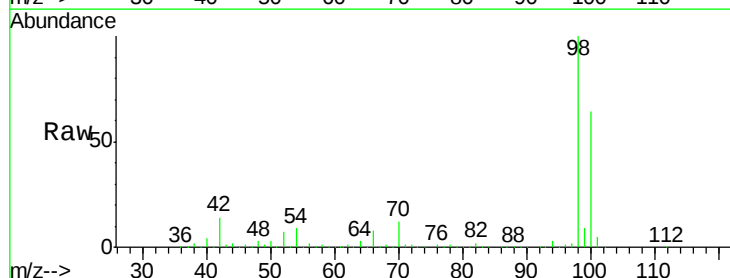


Abundance Ion 83.00 (82.70 to 83.70): VX0
Ion 55.00 (54.70 to 55.70): VX0
Ion 98.00 (97.70 to 98.70): VX0

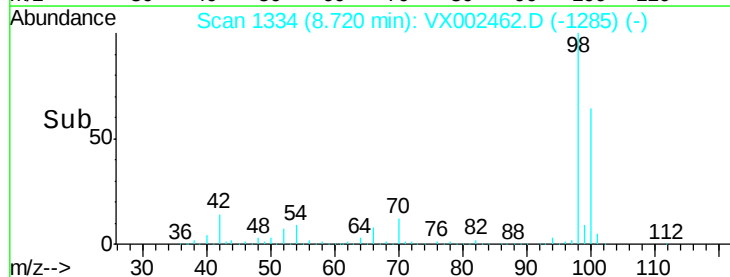
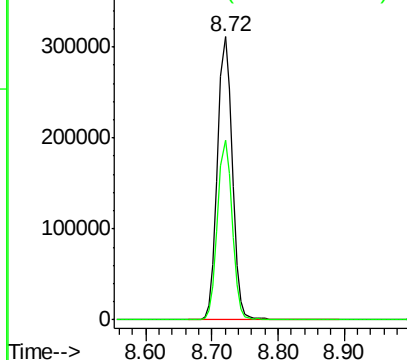


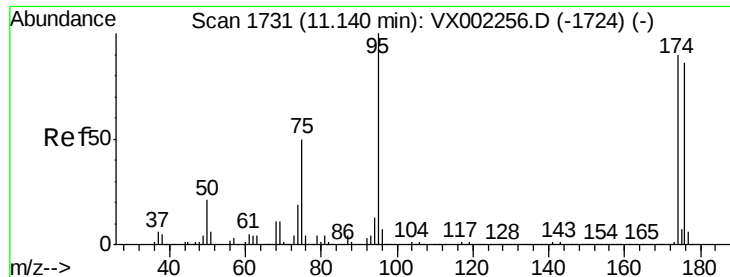
#50
Toluene-d8
Concen: 52.00 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX002462.D
Acq: 12 Jun 2018 13:18

Tgt Ion: 98 Resp: 482107
Ion Ratio Lower Upper
98 100
100 62.9 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: 46.46 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX002462.D

Acq: 12 Jun 2018 13:18

Instrument :

MSVOA_X

ClientSampleId :

LF5-TB-2018-2

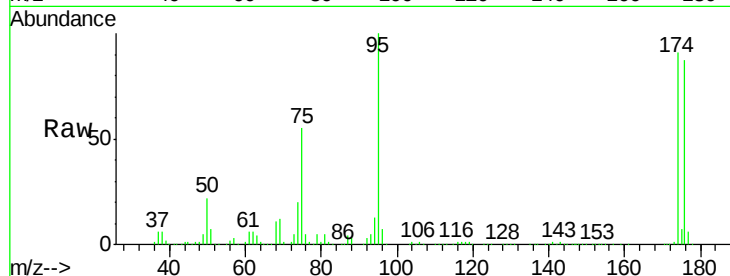
Tgt Ion: 95 Resp: 166119

Ion Ratio Lower Upper

95 100

174 94.3 0.0 187.4

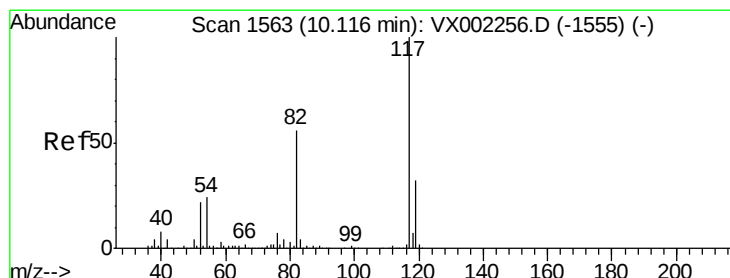
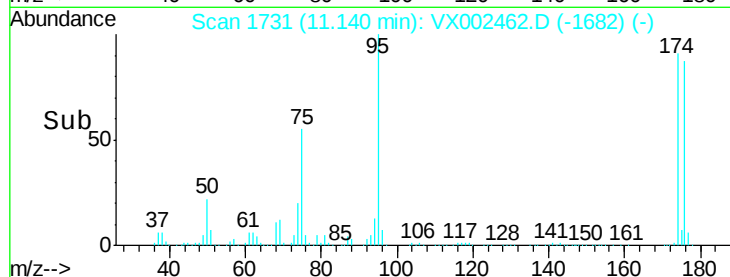
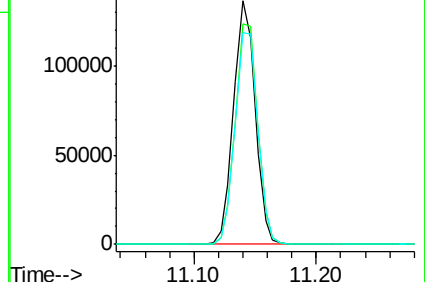
176 91.9 0.0 181.0



Abundance Ion 94.90 (94.60 to 95.60): VX002462.D (-1682) (-)

Ion 173.80 (173.50 to 174.50): VX002462.D (-1682) (-)

Ion 175.80 (175.50 to 176.50): VX002462.D (-1682) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VX002462.D

Acq: 12 Jun 2018 13:18

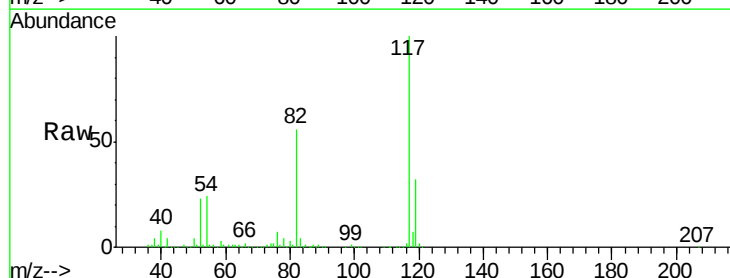
Tgt Ion: 117 Resp: 283108

Ion Ratio Lower Upper

117 100

82 56.1 45.0 67.4

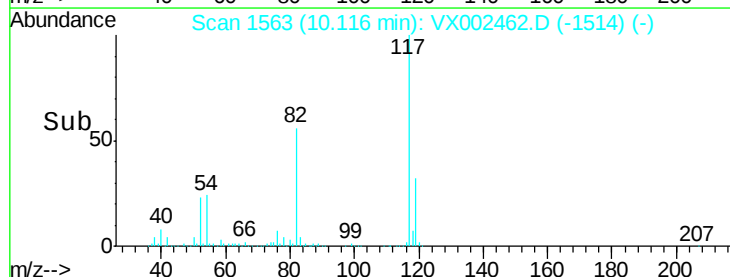
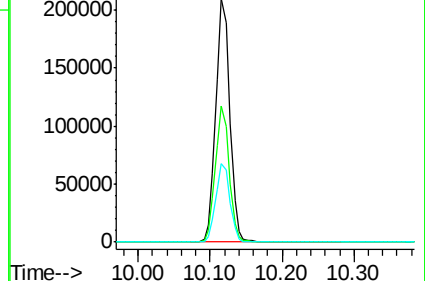
119 32.2 25.8 38.6

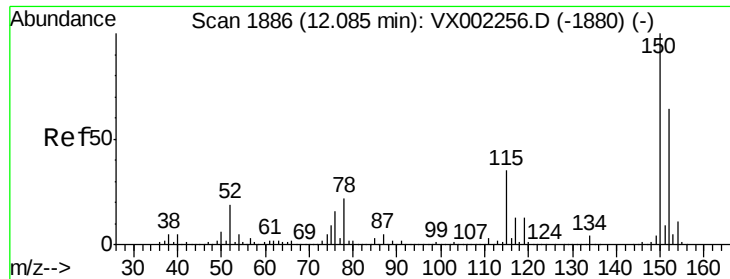


Abundance Ion 116.90 (116.60 to 117.60): VX002462.D (-1514) (-)

Ion 82.00 (81.70 to 82.70): VX002462.D (-1514) (-)

Ion 118.90 (118.60 to 119.60): VX002462.D (-1514) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002462.D

Acq: 12 Jun 2018 13:18

Instrument :

MSVOA_X

ClientSampled :

LF5-TB-2018-2

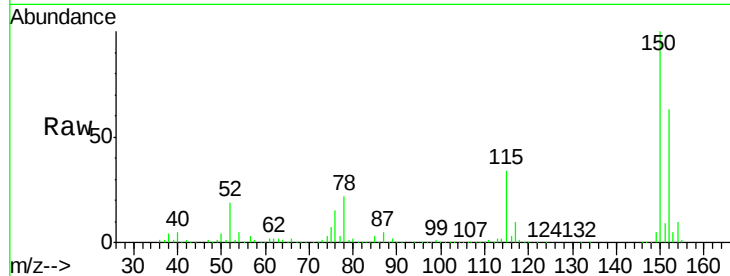
Tgt Ion:152 Resp: 157366

Ion Ratio Lower Upper

152 100

115 55.2 40.1 120.2

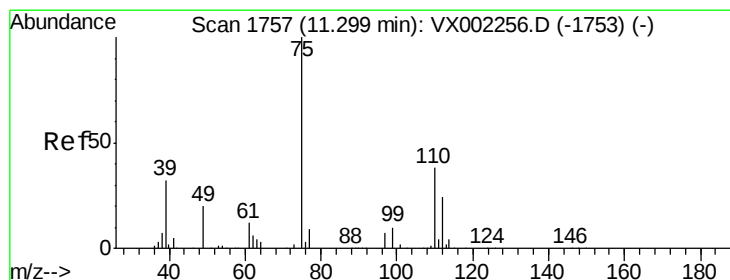
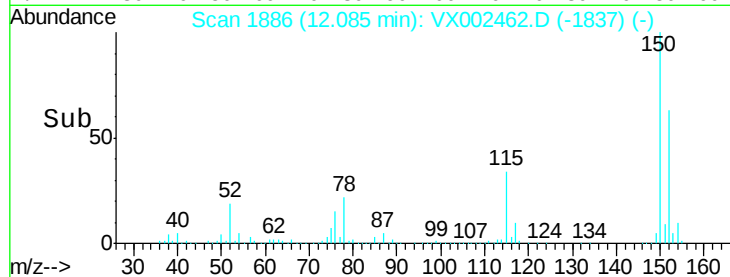
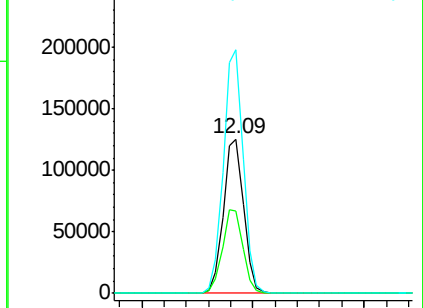
150 155.7 0.0 347.2



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: 26.49 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002462.D

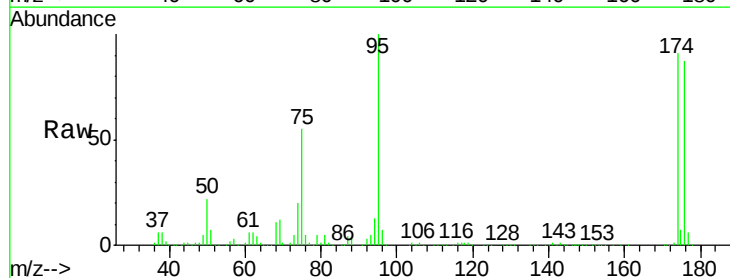
Acq: 12 Jun 2018 13:18

Tgt Ion: 75 Resp: 91478

Ion Ratio Lower Upper

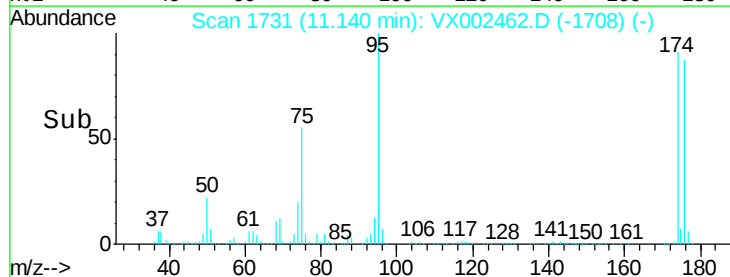
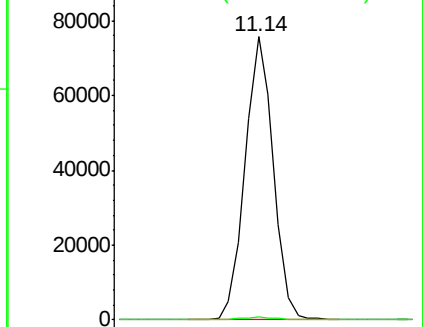
75 100

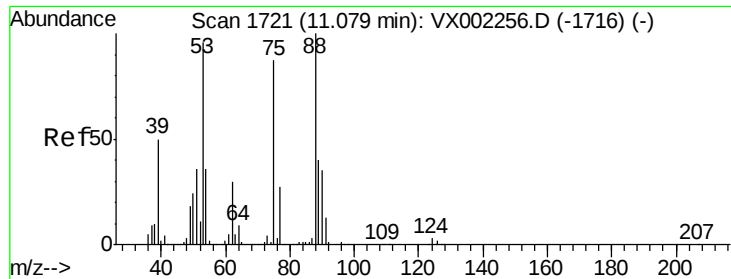
77 1.2 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 92.86 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002462.D

Acq: 12 Jun 2018 13:18

Instrument :

MSVOA_X

ClientSampleId :

LF5-TB-2018-2

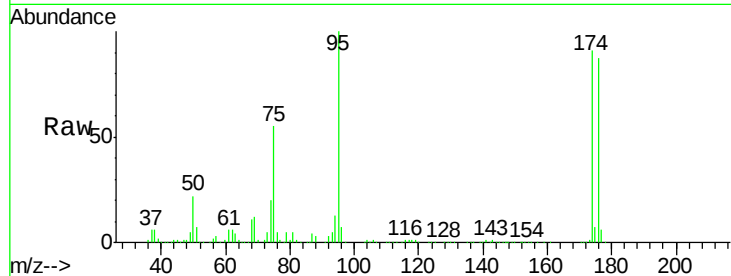
Tgt Ion: 75 Resp: 91478

Ion Ratio Lower Upper

75 100

53 0.1 86.8 130.2#

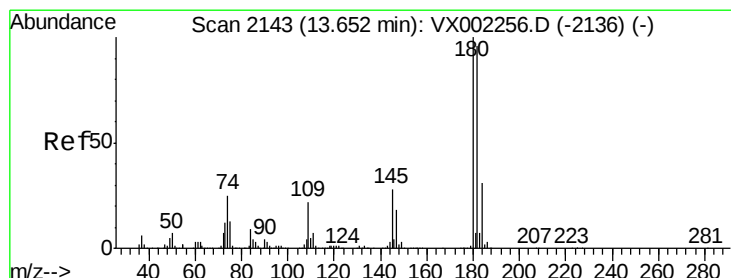
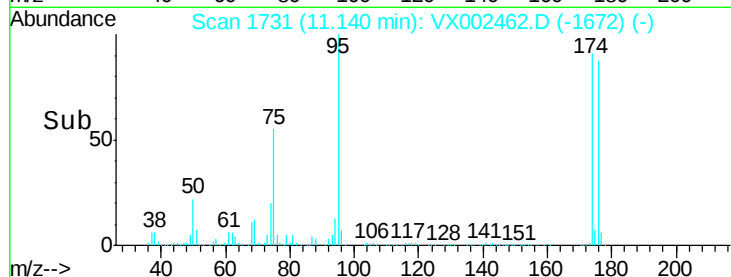
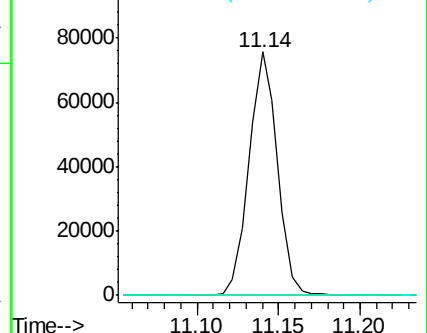
89 0.1 38.2 57.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#93

1,2,4-Trichlorobenzene

Concen: 0.22 ug/l

RT: 13.65 min Scan# 2143

Delta R.T. -0.00 min

Lab File: VX002462.D

Acq: 12 Jun 2018 13:18

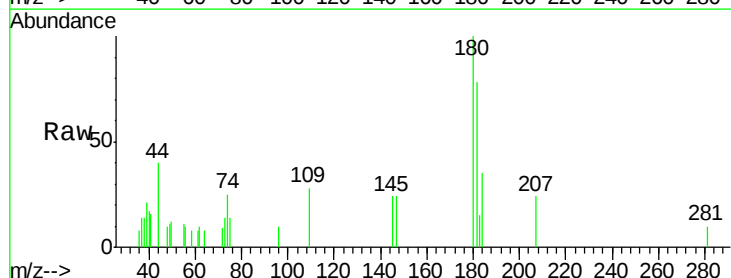
Tgt Ion: 180 Resp: 872

Ion Ratio Lower Upper

180 100

182 76.1 47.7 143.1

145 24.7 14.1 42.4



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

