

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061518\
 Data File : VX002610.D
 Acq On : 15 Jun 2018 21:29
 Operator : JC/MD
 Sample : J3467-09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 FB-061218

Quant Time: Jun 15 23:53:14 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061518W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 15 14:54:36 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	207755	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	302527	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	274250	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	147245	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	143424	45.43	ug/l	0.00
Spiked Amount			Recovery	=	90.86%	
35) Dibromofluoromethane	5.51	113	109079	45.18	ug/l	0.00
Spiked Amount			Recovery	=	90.36%	
50) Toluene-d8	8.72	98	434240	47.37	ug/l	0.00
Spiked Amount			Recovery	=	94.74%	
62) 4-Bromofluorobenzene	11.14	95	143559	41.32	ug/l	0.00
Spiked Amount			Recovery	=	82.64%	

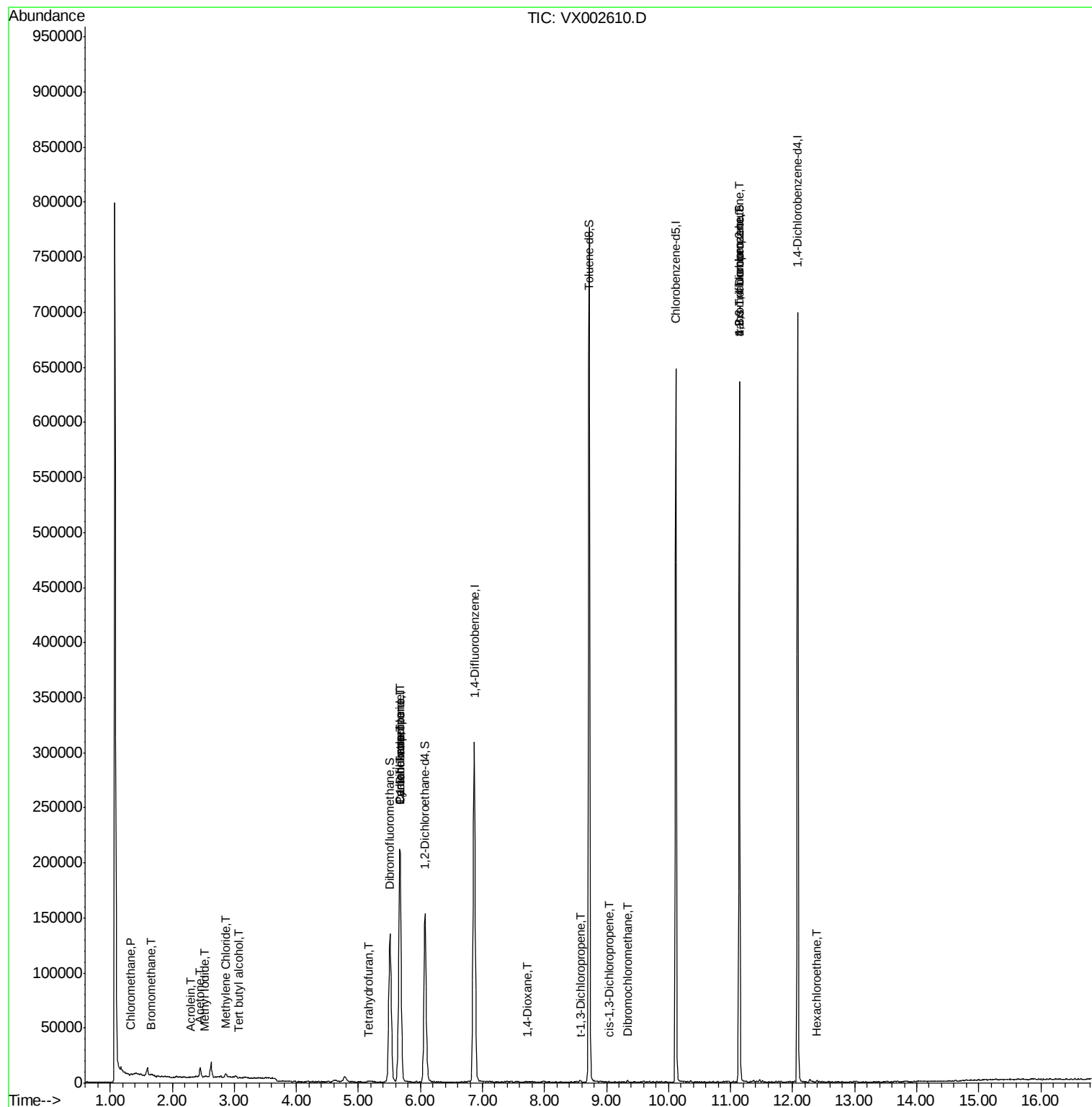
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	771	0.29	ug/l #	83
5) Bromomethane	1.66	94	1098	0.67	ug/l #	61
10) Methyl Iodide	2.52	142	1220	5.51	ug/l #	88
11) Tert butyl alcohol	3.07	59	335	0.51	ug/l #	67
13) Acrolein	2.29	56	158	7.37	ug/l #	32
16) Acetone	2.45	43	9678	6.95	ug/l	99
20) Methylene Chloride	2.86	84	1420	0.50	ug/l #	92
29) Tetrahydrofuran	5.16	42	495	0.41	ug/l #	52
31) Cyclohexane	5.66	56	4732	1.27	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	14754	4.59	ug/l #	50
38) Carbon Tetrachloride	5.67	117	20092	6.28	ug/l #	15
49) 1,4-Dioxane	7.73	88	20	0.34	ug/l #	1
53) t-1,3-Dichloropropene	8.59	75	25	2.40	ug/l #	43
54) cis-1,3-Dichloropropene	9.04	75	53	3.23	ug/l #	32
60) Dibromochloromethane	9.34	129	25	3.77	ug/l #	11
76) 1,2,3-Trichloropropane	11.14	75	77565	27.92	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	77565	86.03	ug/l #	7
90) Hexachloroethane	12.39	117	21	2.64	ug/l #	1

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

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Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
FB-061218

Quant Time: Jun 15 21:51:46 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X061518W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 15 14:54:36 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: VX002610.D

Acq: 15 Jun 2018 21:29

Instrument :

MSVOA_X

ClientSampleId :

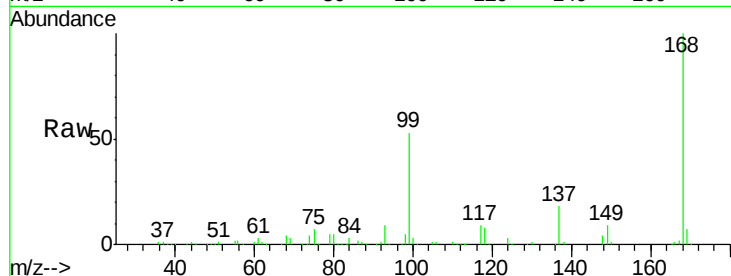
FB-061218

Tot Ion:168 Resp: 207755

Ion Ratio Lower Upper

168 100

99 52.5 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

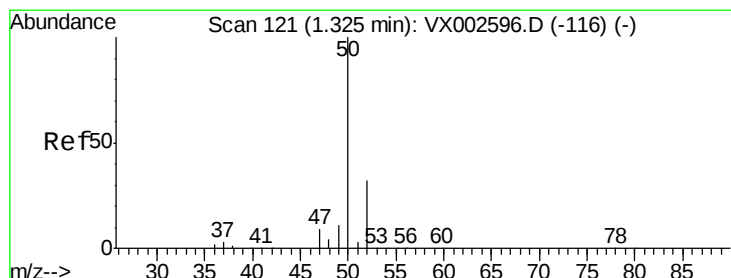
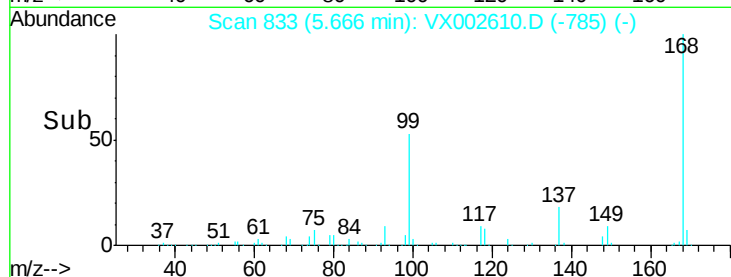
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.29 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX002610.D

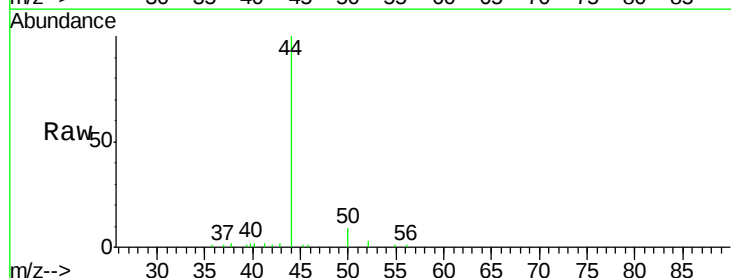
Acq: 15 Jun 2018 21:29

Tgt Ion: 50 Resp: 771

Ion Ratio Lower Upper

50 100

52 22.5 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

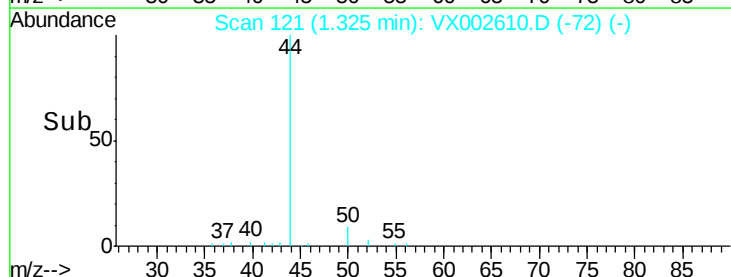
300

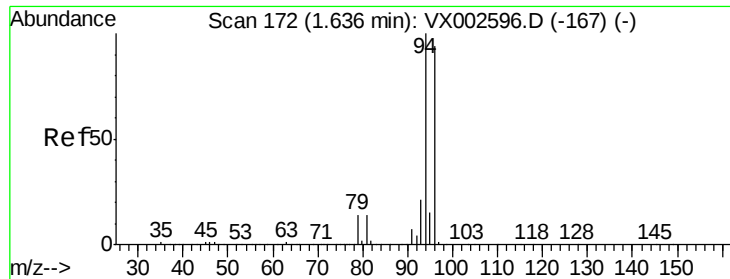
200

100

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: 0.67 ug/l

RT: 1.66 min Scan# 176

Delta R.T. 0.02 min

Lab File: VX002610.D

Acq: 15 Jun 2018 21:29

Instrument :

MSVOA_X

ClientSampled :

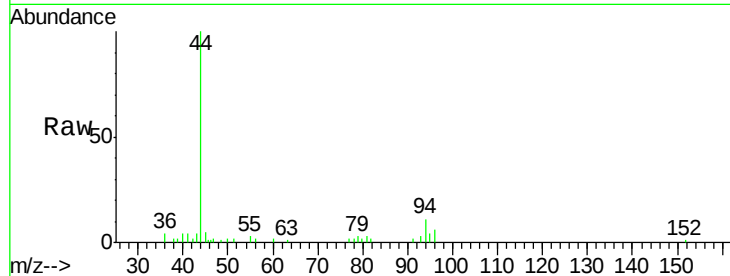
FB-061218

Tot Ion: 94 Resp: 1098

Ion Ratio Lower Upper

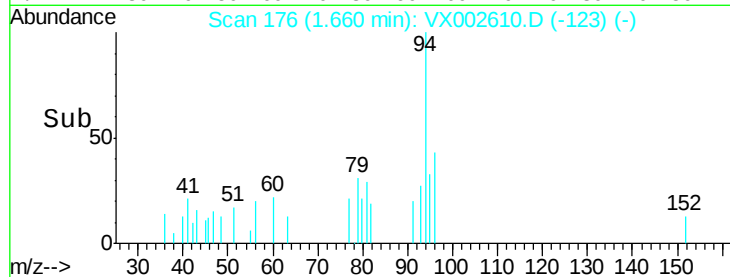
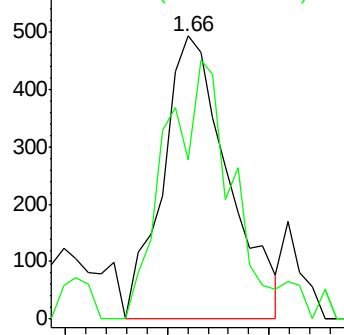
94 100

96 56.4 74.9 112.3#

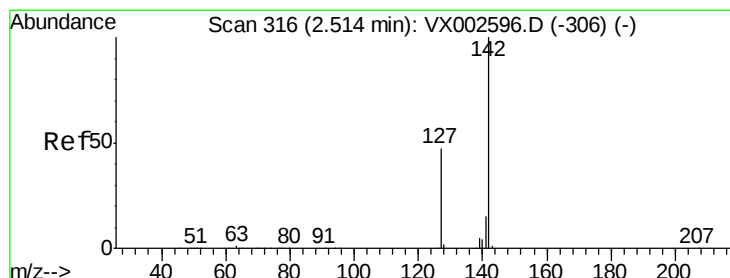


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time-->



#10

Methyl Iodide

Concen: 5.51 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX002610.D

Acq: 15 Jun 2018 21:29

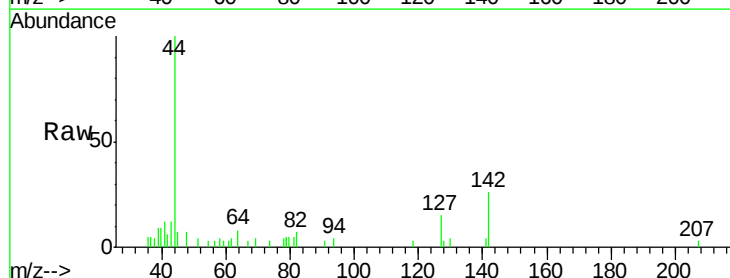
Tgt Ion:142 Resp: 1220

Ion Ratio Lower Upper

142 100

127 55.4 36.6 55.0#

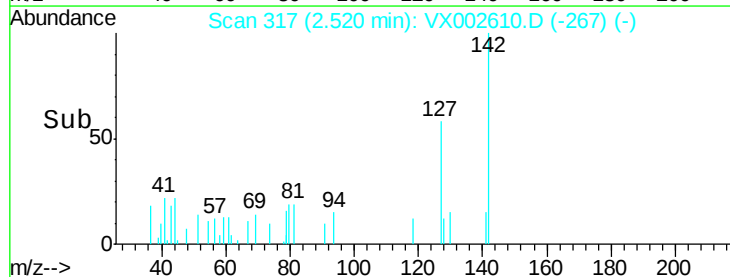
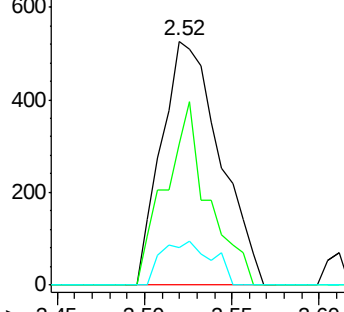
141 15.4 11.3 16.9



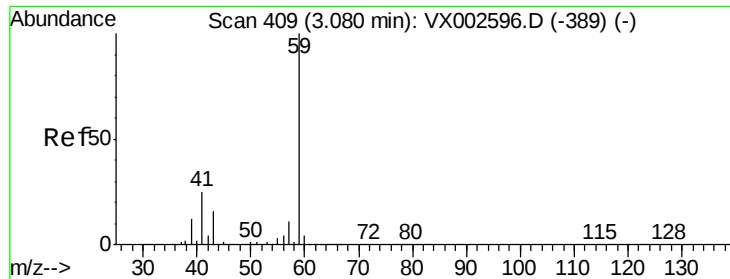
Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



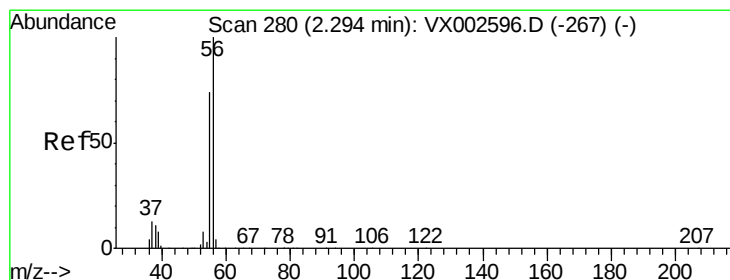
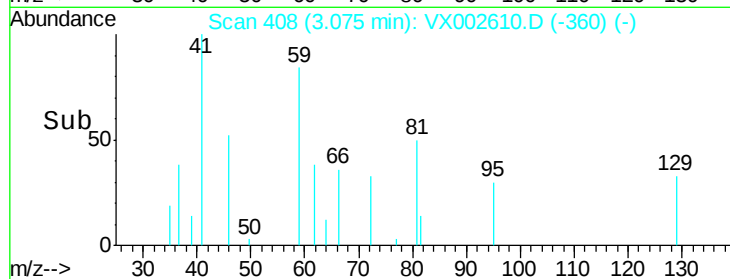
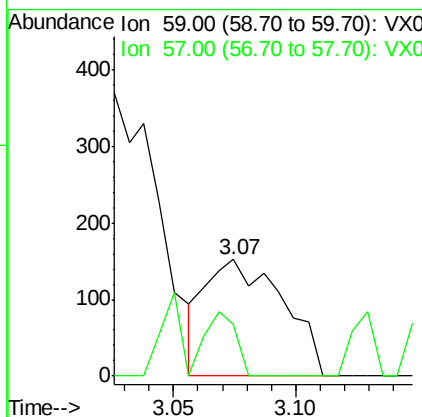
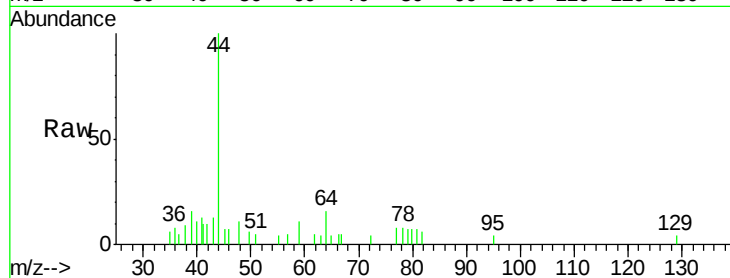
Time-->



#11
Tert butyl alcohol
Concen: 0.51 ug/l
RT: 3.07 min Scan# 408
Delta R.T. -0.01 min
Lab File: VX002610.D
Acq: 15 Jun 2018 21:29

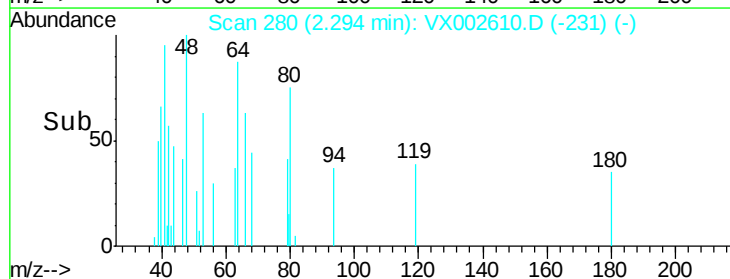
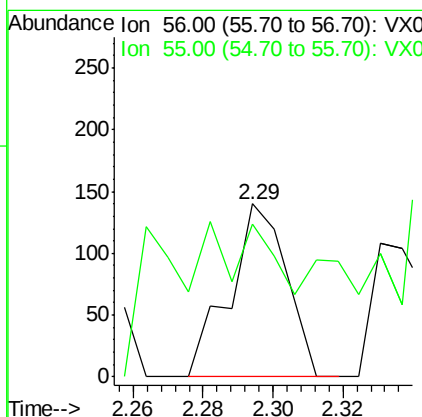
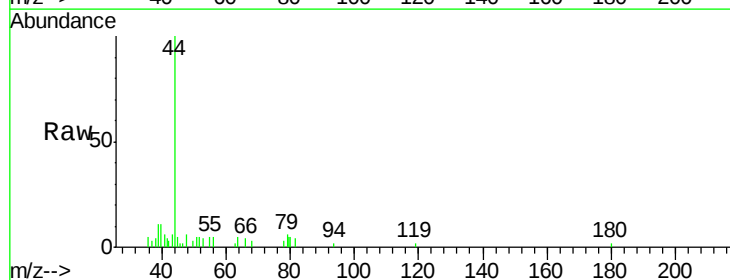
Instrument :
MSVOA_X
ClientSampled :
FB-061218

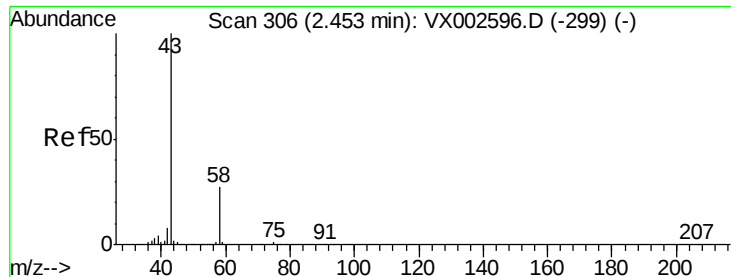
Tot Ion: 59 Resp: 335
Ion Ratio Lower Upper
59 100
57 22.4 8.2 12.2#



#13
Acrolein
Concen: 7.37 ug/l
RT: 2.29 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX002610.D
Acq: 15 Jun 2018 21:29

Tgt Ion: 56 Resp: 158
Ion Ratio Lower Upper
56 100
55 15.2 57.0 85.4#





#16

Acetone

Concen: 6.95 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.00 min

Lab File: VX002610.D

Acq: 15 Jun 2018 21:29

Instrument :

MSVOA_X

ClientSampleId :

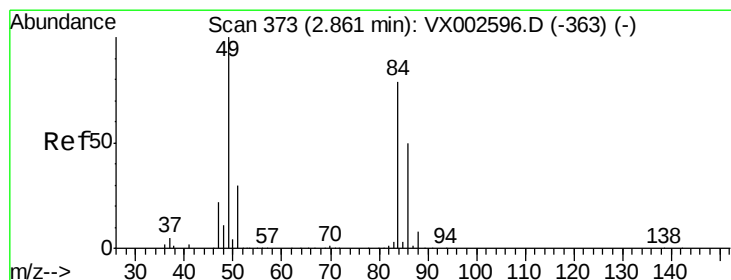
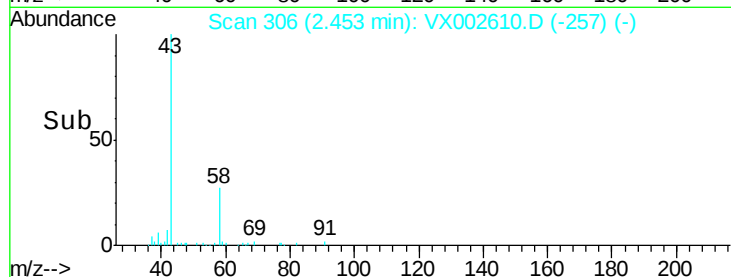
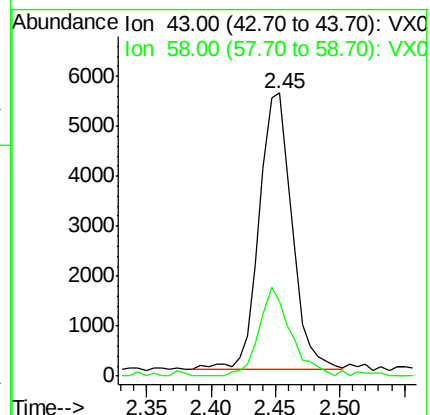
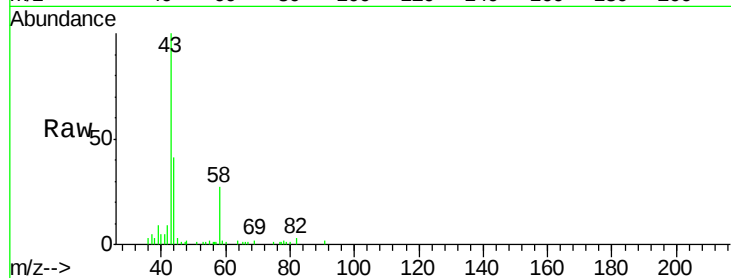
FB-061218

Tot Ion: 43 Resp: 9678

Ion Ratio Lower Upper

43 100

58 27.3 22.1 33.1



#20

Methylene Chloride

Concen: 0.50 ug/l

RT: 2.86 min Scan# 373

Delta R.T. 0.00 min

Lab File: VX002610.D

Acq: 15 Jun 2018 21:29

Tgt Ion: 84 Resp: 1420

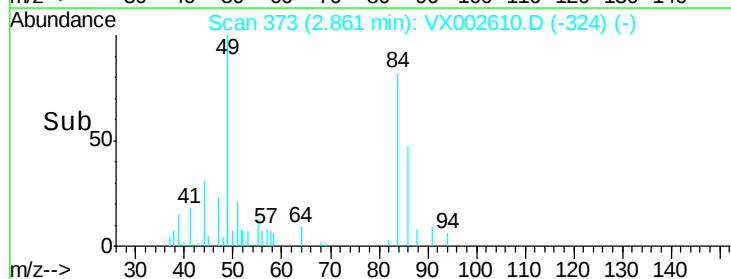
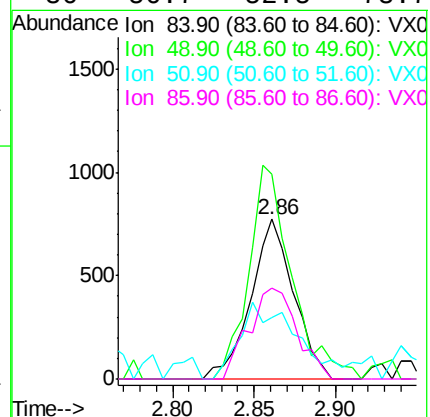
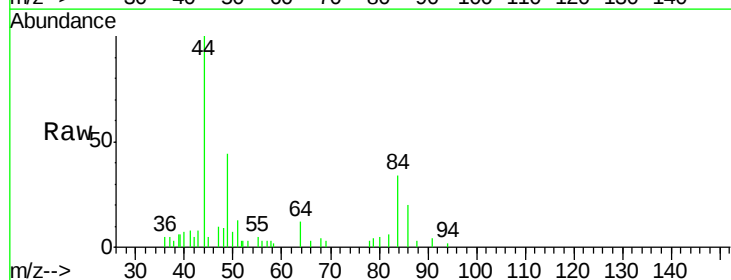
Ion Ratio Lower Upper

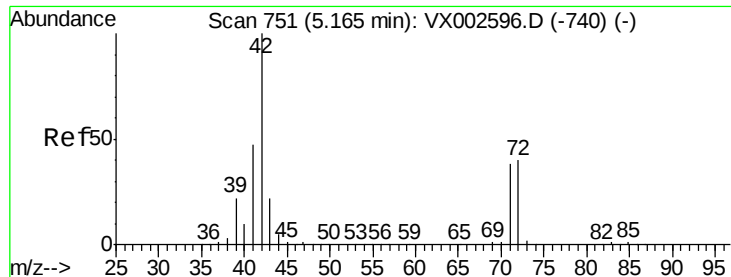
84 100

49 128.5 107.8 161.6

51 31.7 32.8 49.2#

86 56.7 52.5 78.7

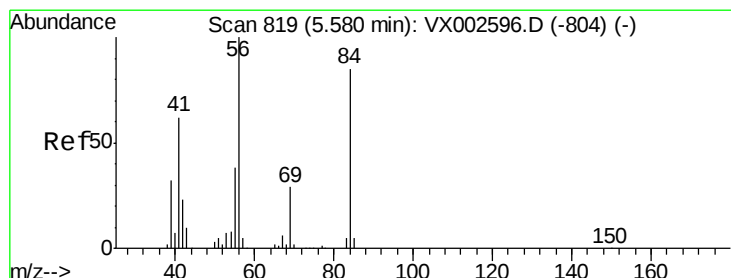
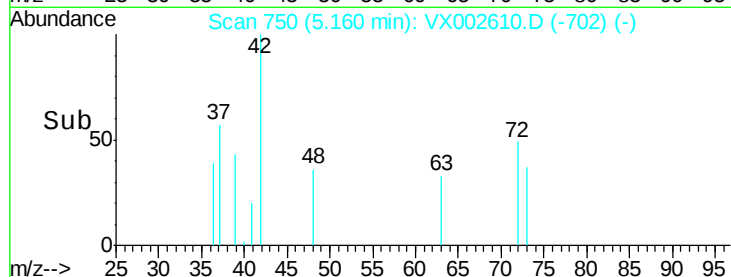
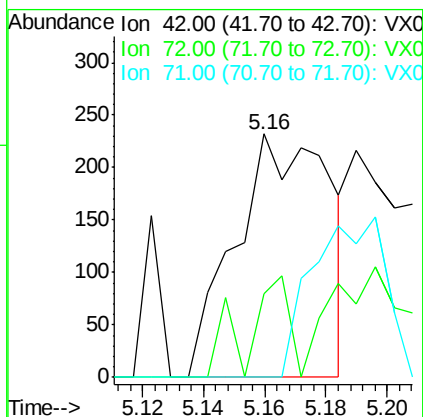
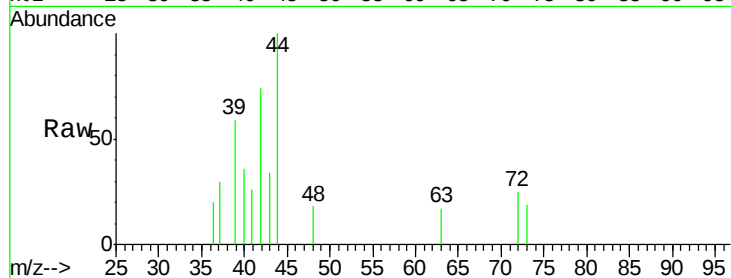




#29
Tetrahydrofuran
Concen: 0.41 ug/l
RT: 5.16 min Scan# 750
Delta R.T. -0.01 min
Lab File: VX002610.D
Acq: 15 Jun 2018 21:29

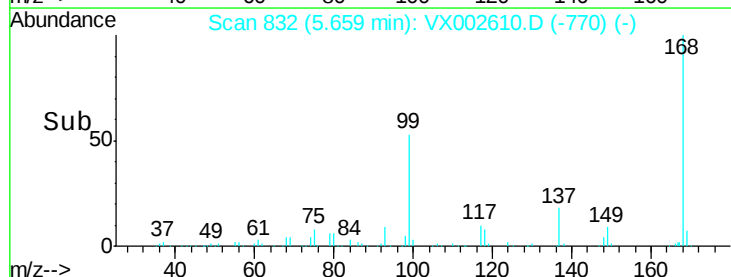
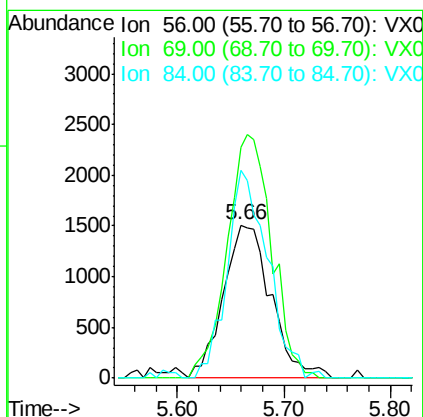
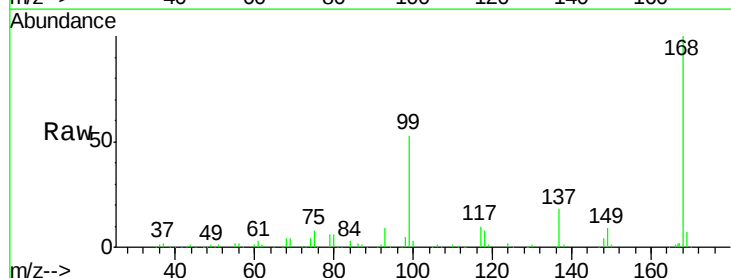
Instrument :
MSVOA_X
ClientSampled :
FB-061218

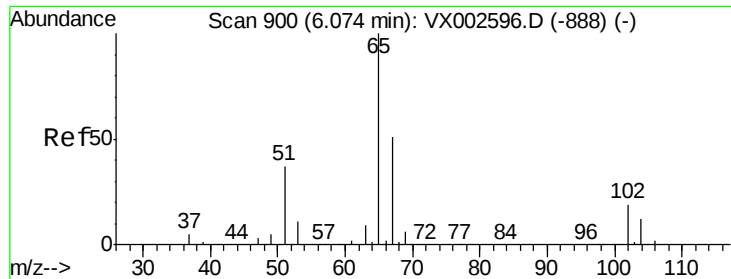
Tot Ion: 42 Resp: 495
Ion Ratio Lower Upper
42 100
72 18.8 32.0 48.0#
71 0.0 30.1 45.1#



#31
Cyclohexane
Concen: 1.27 ug/l
RT: 5.66 min Scan# 832
Delta R.T. 0.08 min
Lab File: VX002610.D
Acq: 15 Jun 2018 21:29

Tgt Ion: 56 Resp: 4732
Ion Ratio Lower Upper
56 100
69 150.9 23.7 35.5#
84 135.7 64.1 96.1#

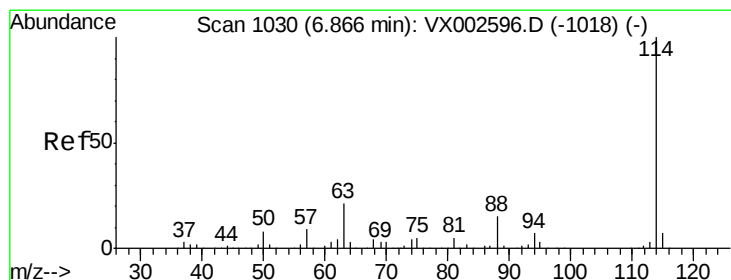
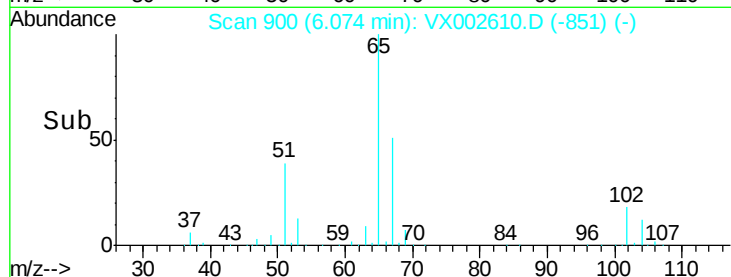
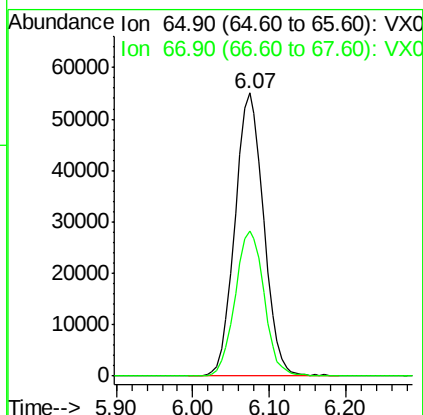
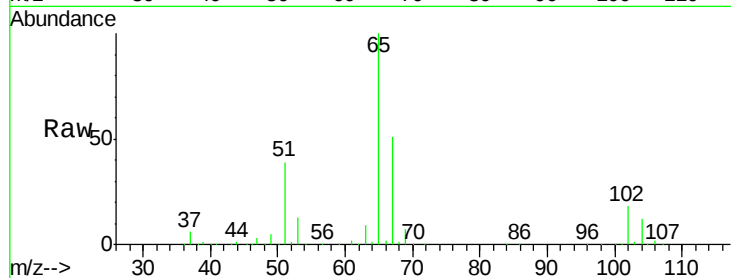




#33
 1,2-Dichloroethane-d4
 Concen: 45.43 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.00 min
 Lab File: VX002610.D
 Acq: 15 Jun 2018 21:29

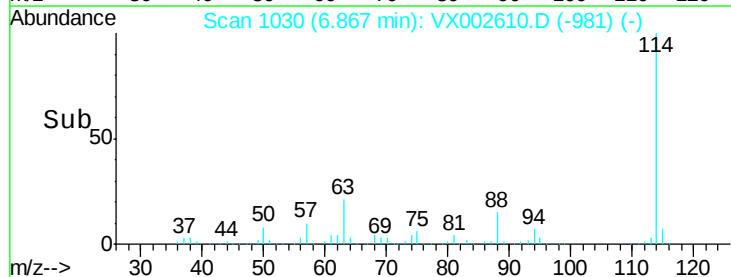
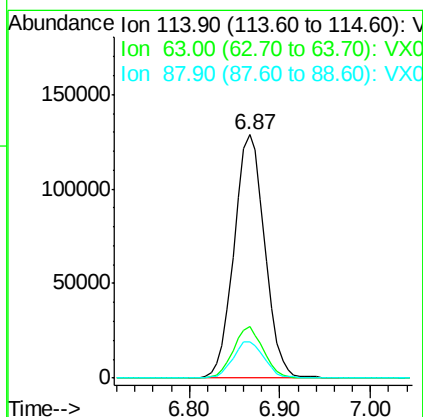
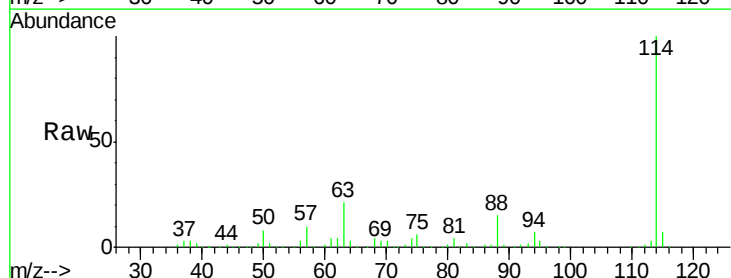
Instrument :
 MSVOA_X
 ClientSampled :
 FB-061218

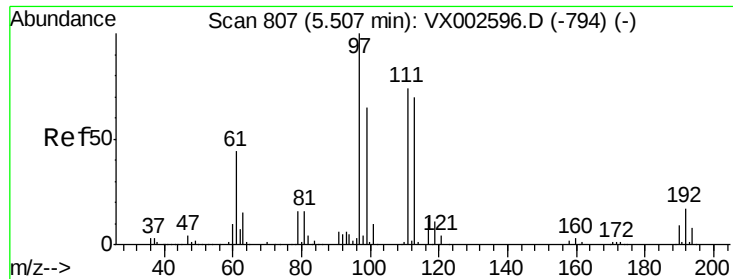
Tot Ion: 65 Resp: 143424
 Ion Ratio Lower Upper
 65 100
 67 51.9 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX002610.D
 Acq: 15 Jun 2018 21:29

Tgt Ion: 114 Resp: 302527
 Ion Ratio Lower Upper
 114 100
 63 21.1 0.0 41.4
 88 15.1 0.0 30.0





#35

Dibromofluoromethane

Concen: 45.18 ug/l

RT: 5.51 min Scan# 808

Delta R.T. 0.01 min

Lab File: VX002610.D

Acq: 15 Jun 2018 21:29

Instrument :

MSVOA_X

ClientSampled :

FB-061218

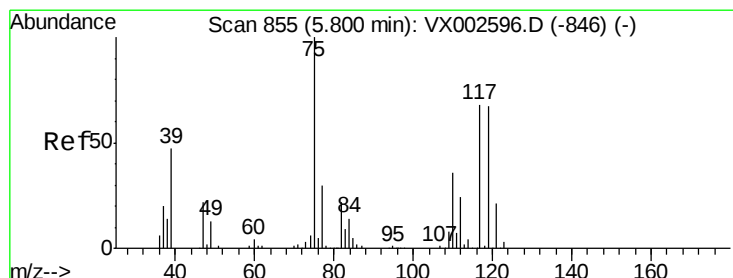
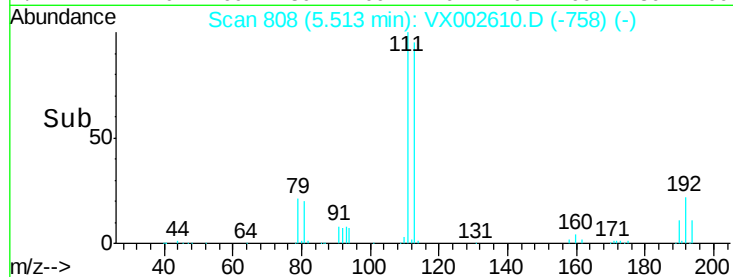
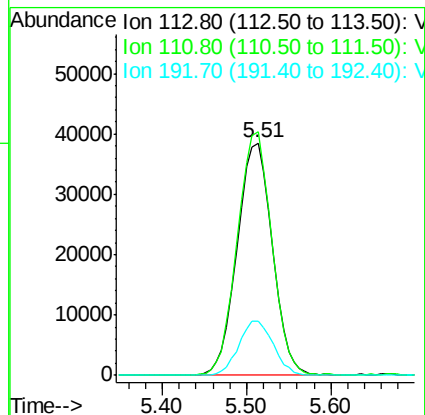
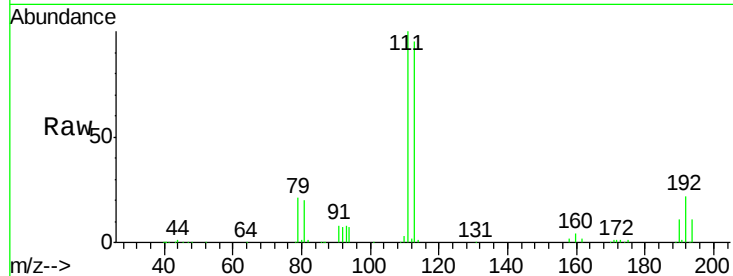
Tot Ion:113 Resp: 109079

Ion Ratio Lower Upper

113 100

111 103.0 81.4 122.0

192 23.1 19.1 28.7



#36

1,1-Dichloropropene

Concen: 4.59 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.14 min

Lab File: VX002610.D

Acq: 15 Jun 2018 21:29

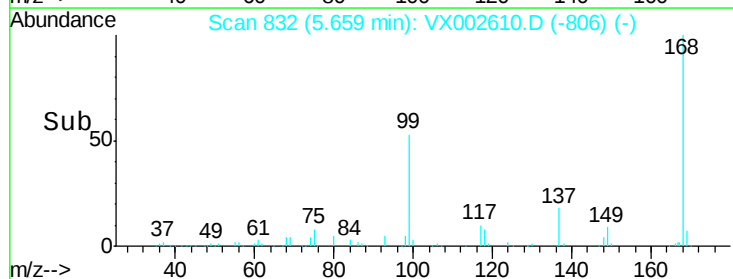
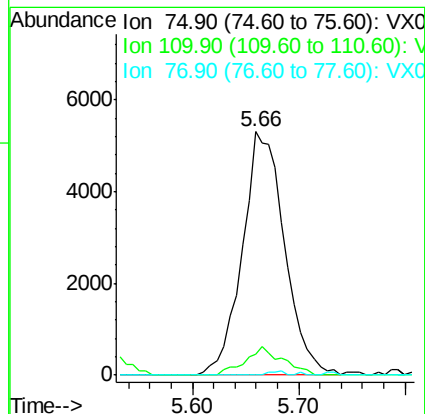
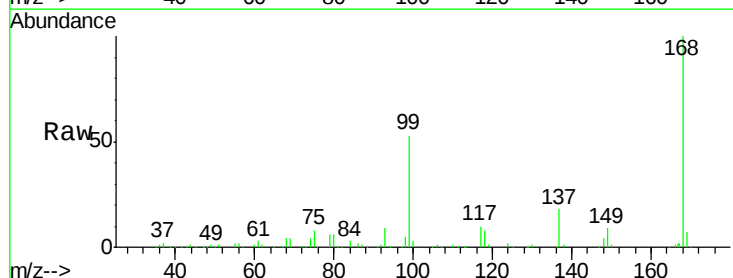
Tgt Ion: 75 Resp: 14754

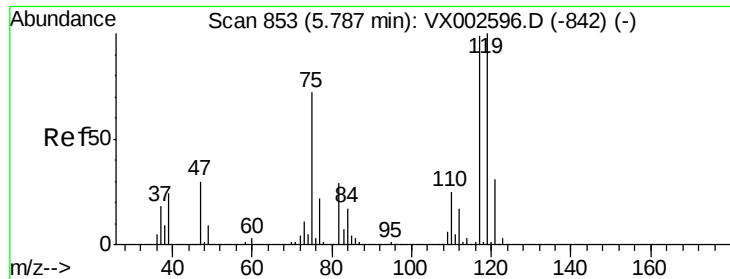
Ion Ratio Lower Upper

75 100

110 10.2 18.1 54.4#

77 0.0 24.3 36.5#





#38

Carbon Tetrachloride

Concen: 6.28 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX002610.D

Acq: 15 Jun 2018 21:29

Instrument :

MSVOA_X

ClientSampled :

FB-061218

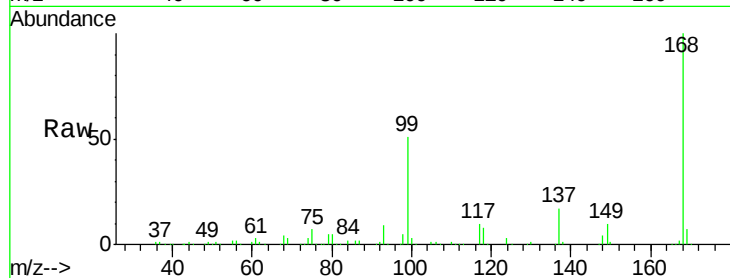
Tot Ion:117 Resp: 20092

Ion Ratio Lower Upper

117 100

119 4.8 77.4 116.0#

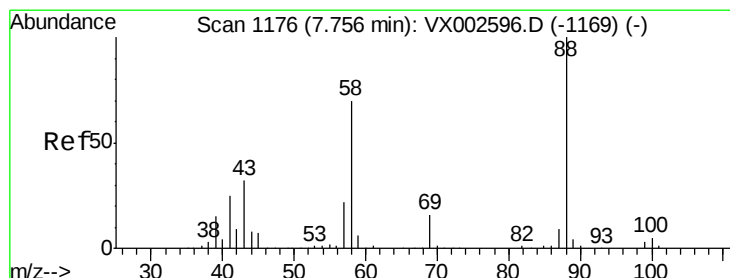
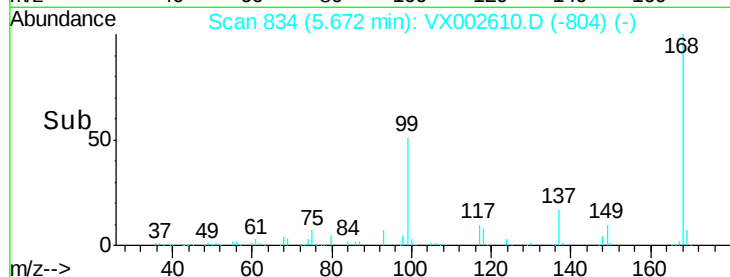
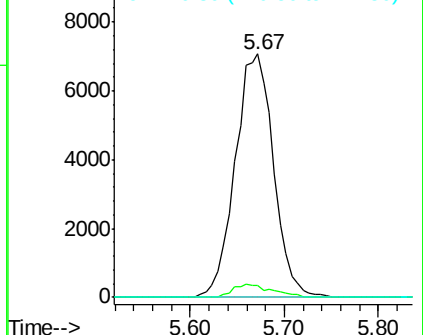
121 0.0 24.4 36.6#



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



#49

1,4-Dioxane

Concen: 0.34 ug/l

RT: 7.73 min Scan# 1171

Delta R.T. -0.03 min

Lab File: VX002610.D

Acq: 15 Jun 2018 21:29

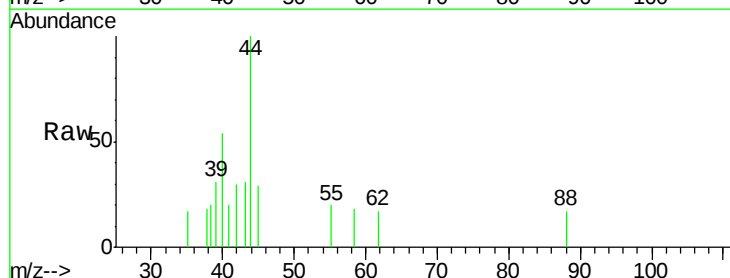
Tgt Ion: 88 Resp: 20

Ion Ratio Lower Upper

88 100

43 480.0 29.8 44.6#

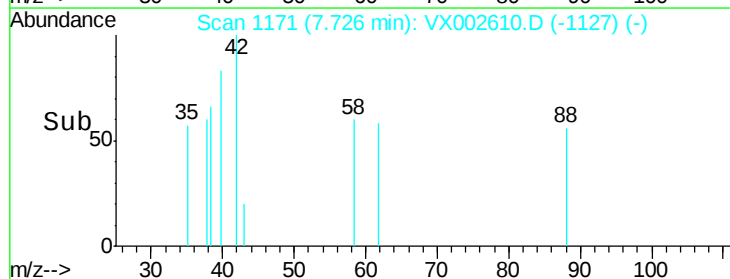
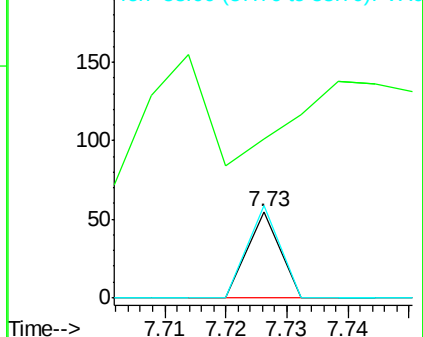
58 110.0 57.1 85.7#

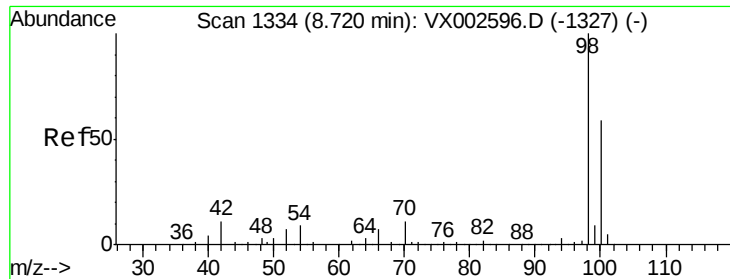


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 47.37 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX002610.D

Acq: 15 Jun 2018 21:29

Instrument :

MSVOA_X

ClientSampleId :

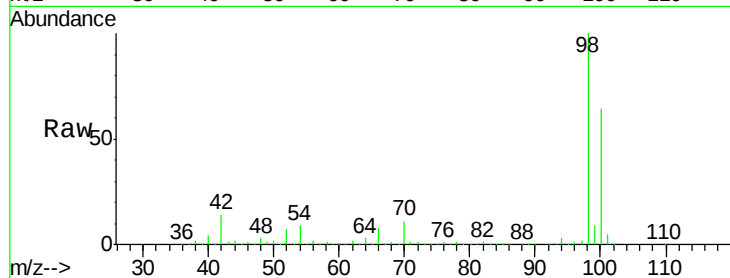
FB-061218

Tot Ion: 98 Resp: 434240

Ion Ratio Lower Upper

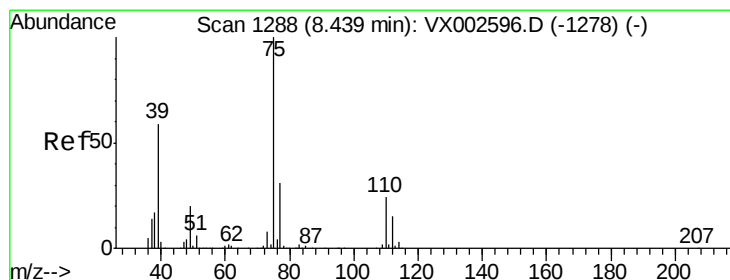
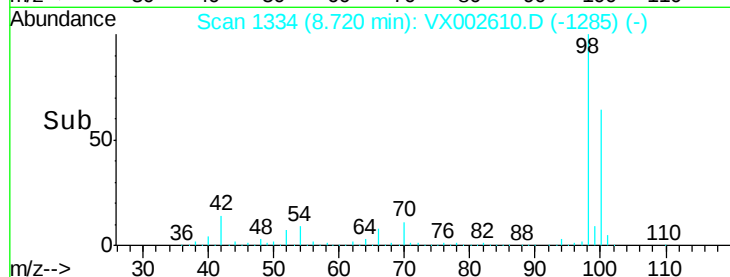
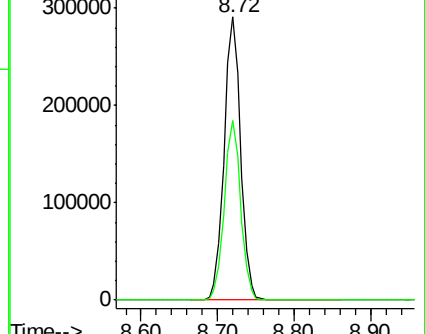
98 100

100 62.8 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#53

t-1,3-Dichloropropene

Concen: 2.40 ug/l

RT: 8.59 min Scan# 1313

Delta R.T. 0.15 min

Lab File: VX002610.D

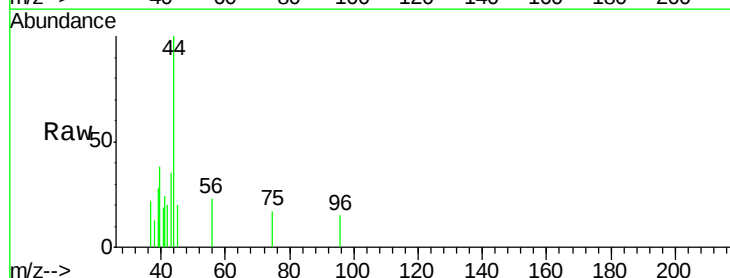
Acq: 15 Jun 2018 21:29

Tgt Ion: 75 Resp: 25

Ion Ratio Lower Upper

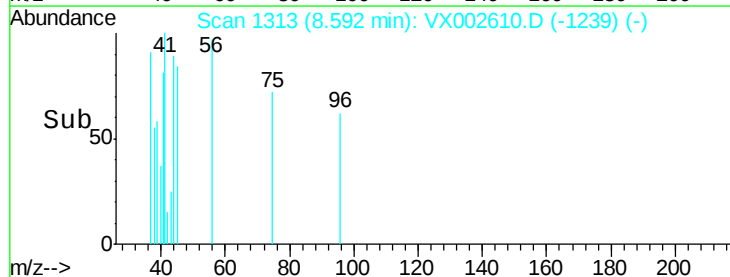
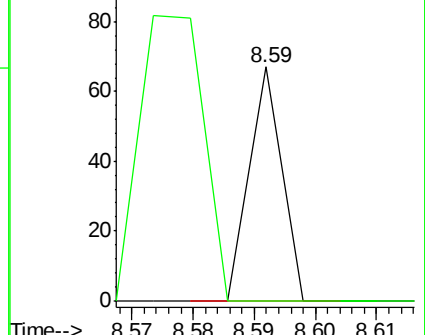
75 100

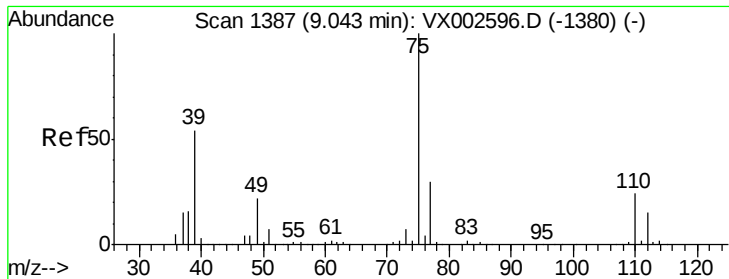
77 0.0 25.4 38.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0



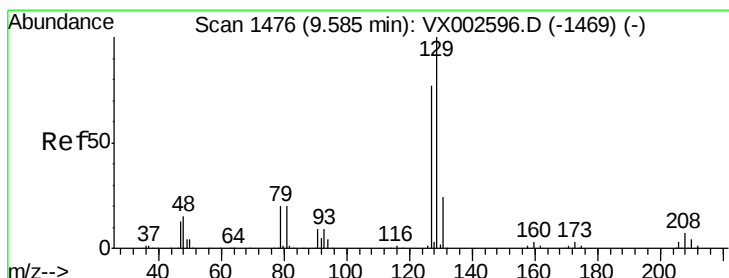
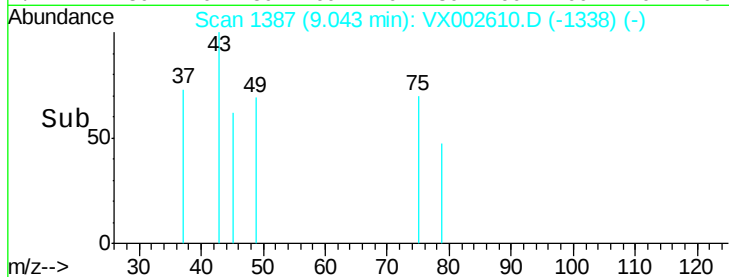
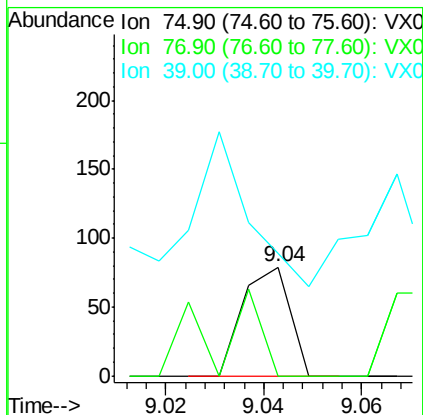
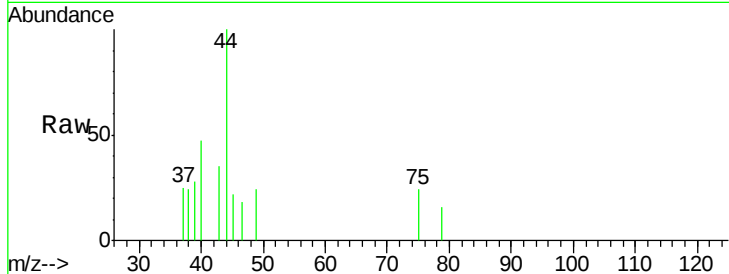


#54

cis-1,3-Dichloropropene
Concen: 3.23 ug/l
RT: 9.04 min Scan# 1387
Delta R.T. 0.00 min
Lab File: VX002610.D
Acq: 15 Jun 2018 21:29

Instrument :
MSVOA_X
ClientSampled :
FB-061218

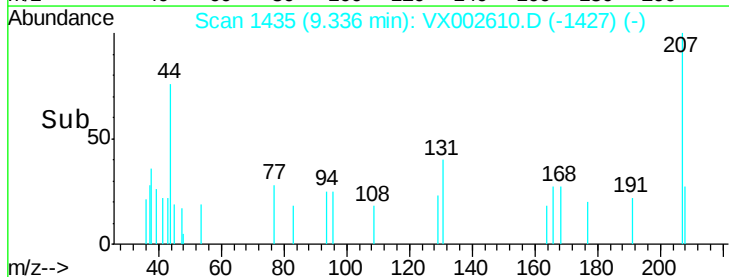
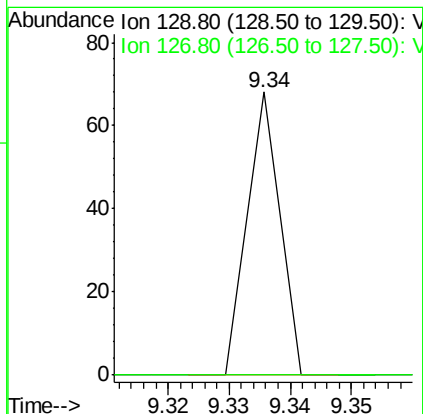
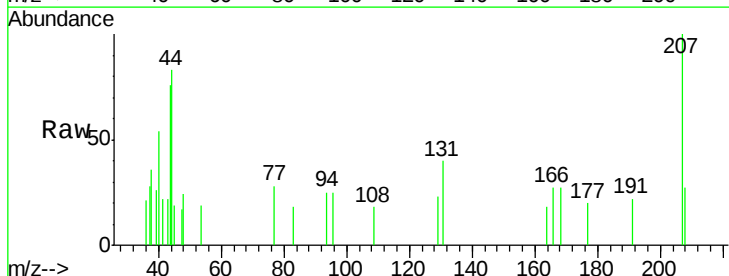
Tot Ion: 75 Resp: 53
Ion Ratio Lower Upper
75 100
77 0.0 24.8 37.2#
39 0.0 42.4 63.6#

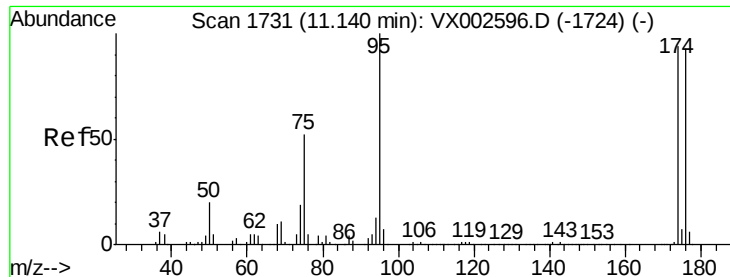


#60

Dibromochloromethane
Concen: 3.77 ug/l
RT: 9.34 min Scan# 1435
Delta R.T. -0.25 min
Lab File: VX002610.D
Acq: 15 Jun 2018 21:29

Tgt Ion: 129 Resp: 25
Ion Ratio Lower Upper
129 100
127 0.0 38.5 115.3#

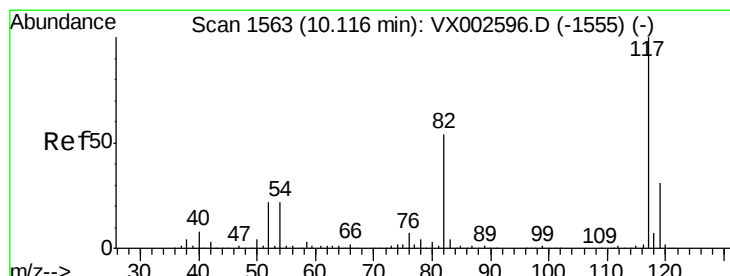
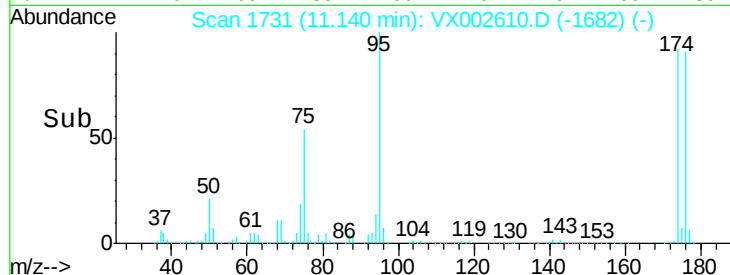
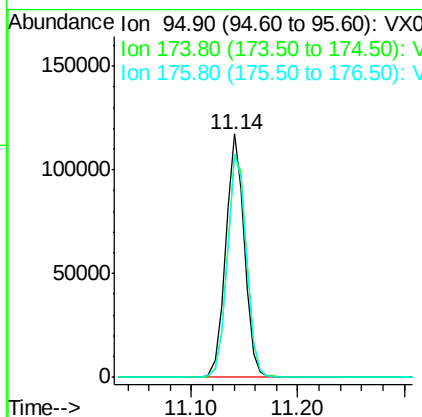
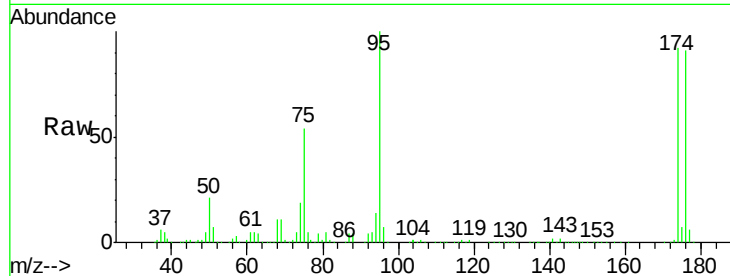




#62
4-Bromofluorobenzene
Concen: 41.32 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX002610.D
Acq: 15 Jun 2018 21:29

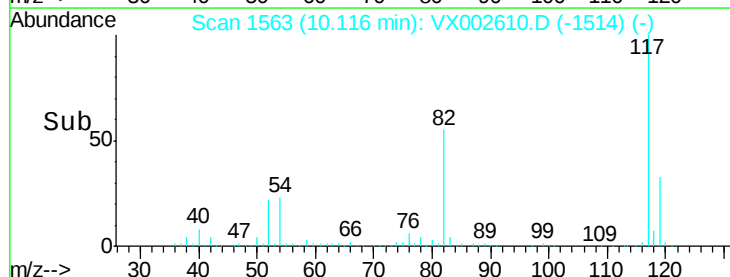
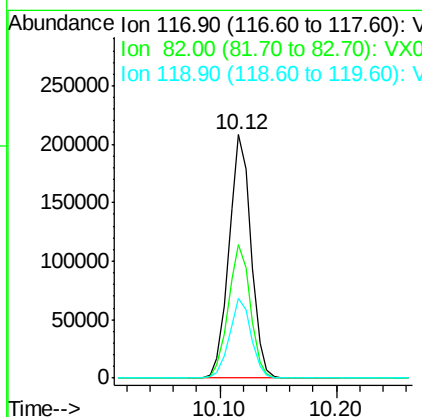
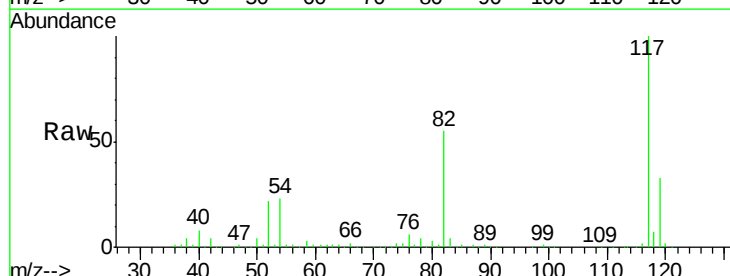
Instrument :
MSVOA_X
ClientSampleId :
FB-061218

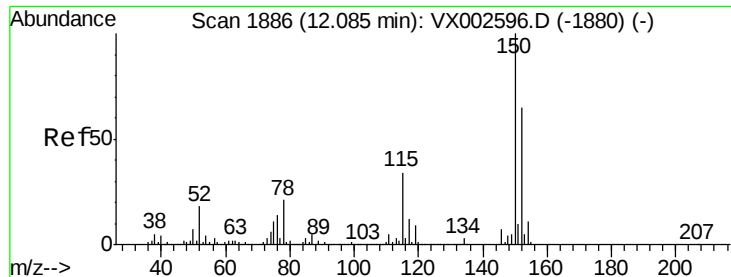
Tot Ion: 95 Resp: 143559
Ion Ratio Lower Upper
95 100
174 95.4 0.0 187.4
176 93.8 0.0 181.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX002610.D
Acq: 15 Jun 2018 21:29

Tgt Ion: 117 Resp: 274250
Ion Ratio Lower Upper
117 100
82 54.9 45.0 67.4
119 32.5 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: VX002610.D

Acq: 15 Jun 2018 21:29

Instrument :

MSVOA_X

ClientSampleId :

FB-061218

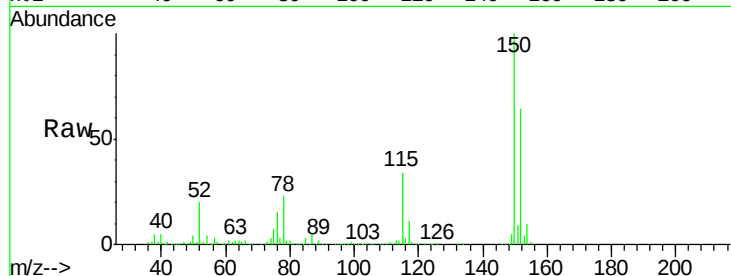
Tot Ion:152 Resp: 147245

Ion Ratio Lower Upper

152 100

115 54.9 40.1 120.2

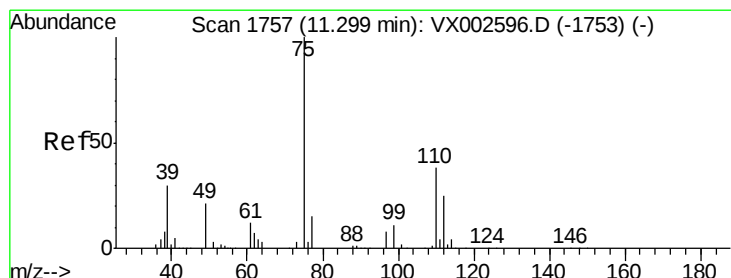
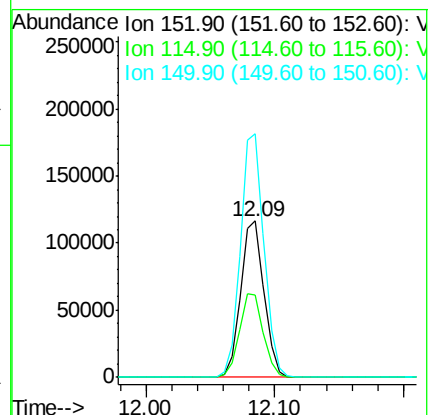
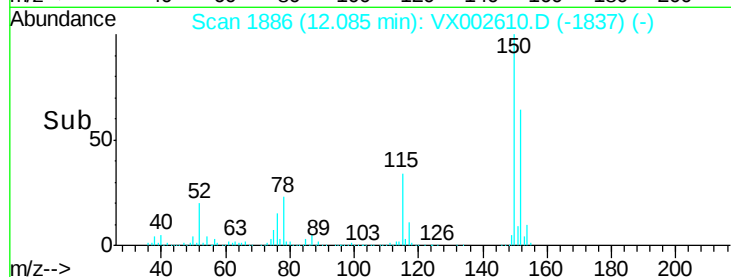
150 156.1 0.0 347.2



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: 27.92 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002610.D

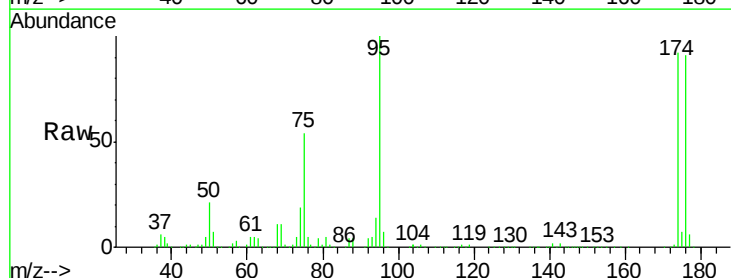
Acq: 15 Jun 2018 21:29

Tgt Ion: 75 Resp: 77565

Ion Ratio Lower Upper

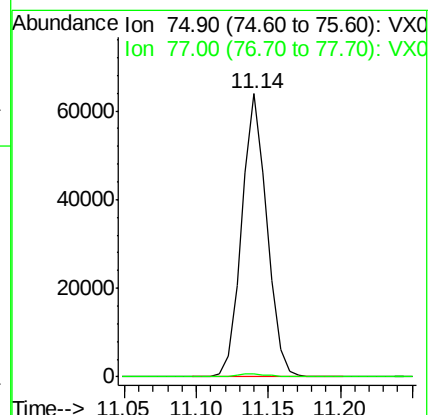
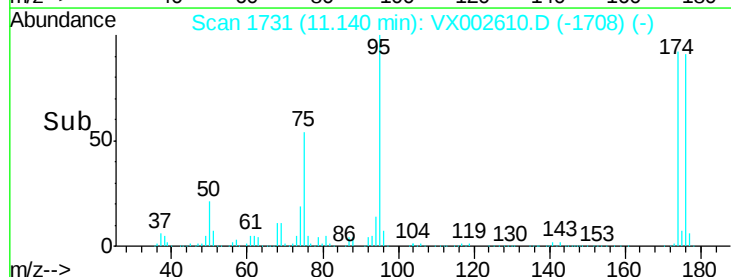
75 100

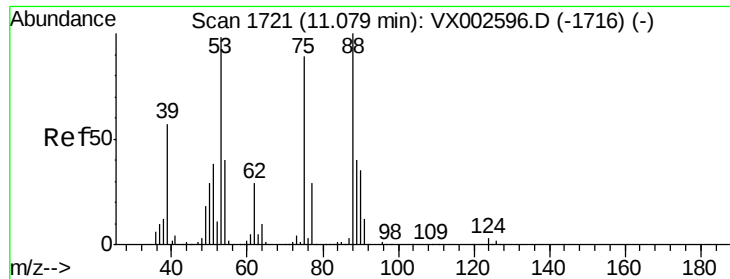
77 1.2 22.8 68.3#



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: 86.03 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002610.D

Acq: 15 Jun 2018 21:29

Instrument :

MSVOA_X

ClientSampled :

FB-061218

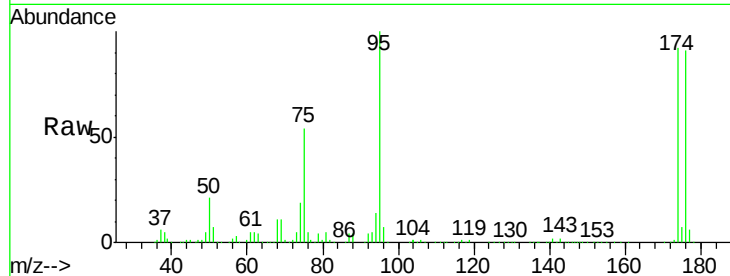
Tot Ion: 75 Resp: 77565

Ion Ratio Lower Upper

75 100

53 0.2 86.8 130.2#

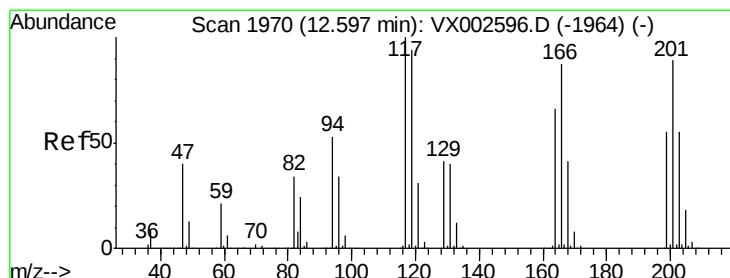
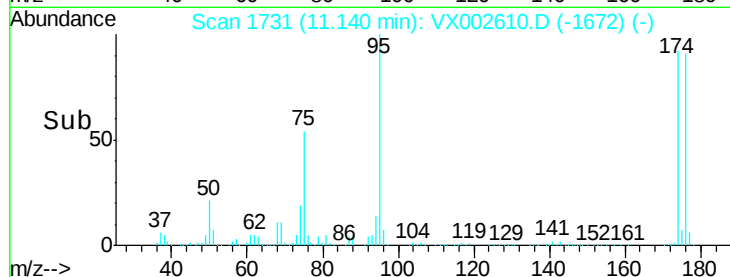
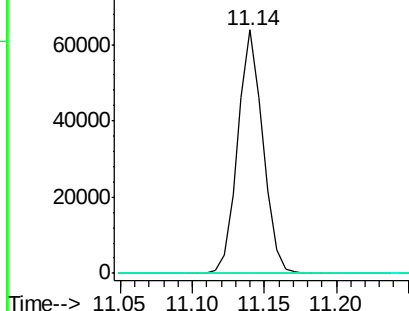
89 0.0 38.2 57.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#90

Hexachloroethane

Concen: 2.64 ug/l

RT: 12.39 min Scan# 1936

Delta R.T. -0.21 min

Lab File: VX002610.D

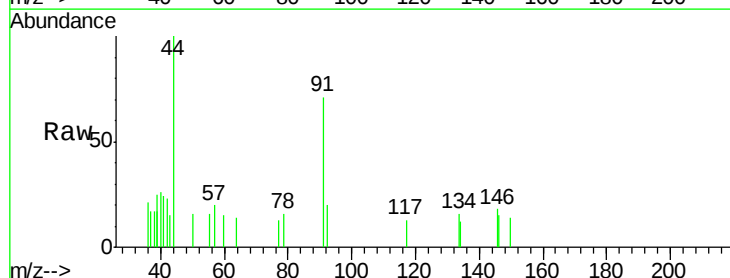
Acq: 15 Jun 2018 21:29

Tgt Ion: 117 Resp: 21

Ion Ratio Lower Upper

117 100

201 0.0 49.0 147.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

