

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061518\
 Data File : VX002609.D
 Acq On : 15 Jun 2018 21:03
 Operator : JC/MD
 Sample : J3467-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 FB-061118

Quant Time: Jun 15 23:53:00 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	204927	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	296689	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	273607	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	148062	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	141089	45.31	ug/l	0.00
Spiked Amount			Recovery	=	90.62%	
35) Dibromofluoromethane	5.51	113	105361	44.50	ug/l	0.00
Spiked Amount			Recovery	=	89.00%	
50) Toluene-d8	8.72	98	422029	46.94	ug/l	0.00
Spiked Amount			Recovery	=	93.88%	
62) 4-Bromofluorobenzene	11.14	95	145347	42.66	ug/l	0.00
Spiked Amount			Recovery	=	85.32%	

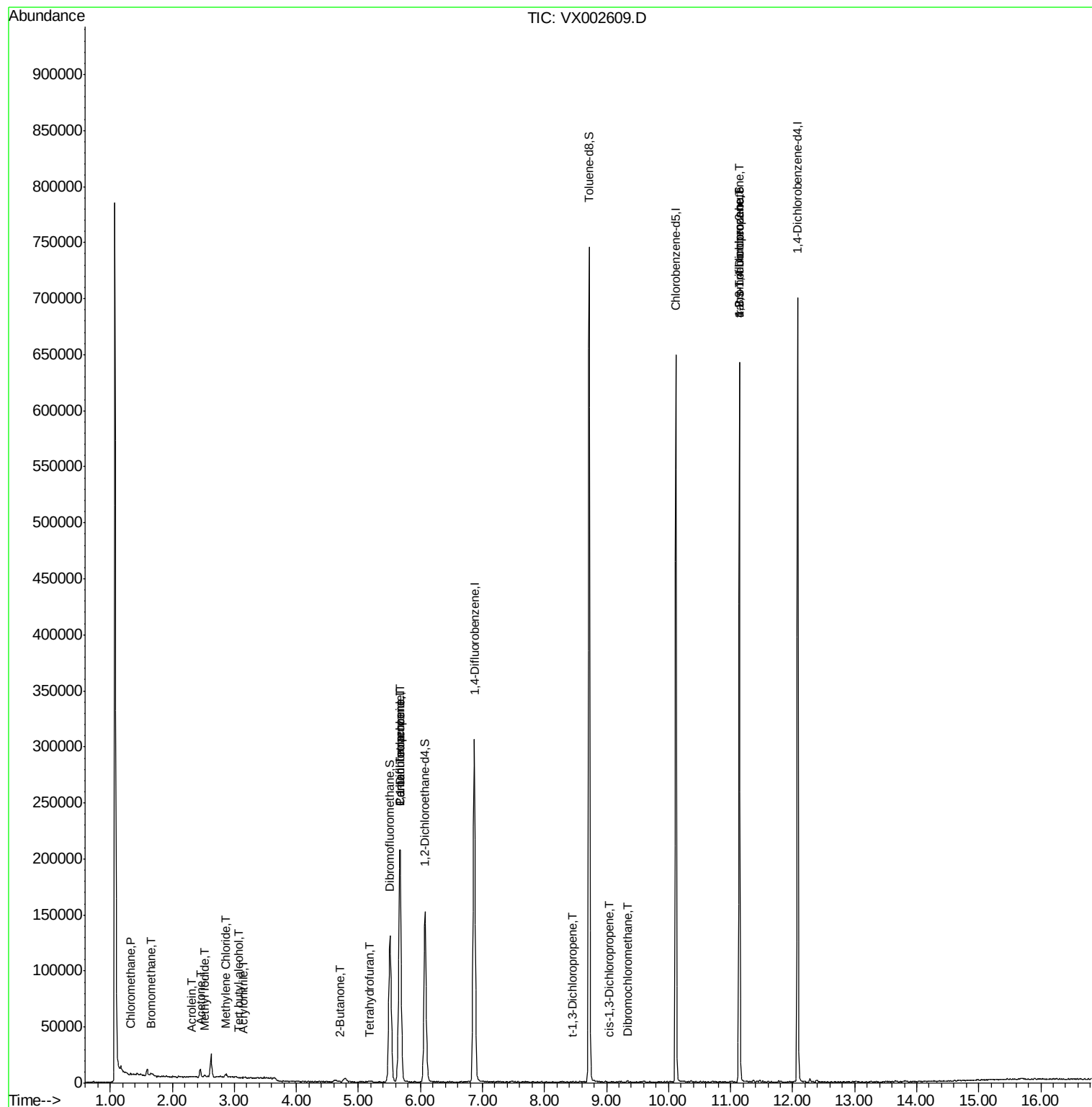
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	787	0.30	ug/l	93
5) Bromomethane	1.66	94	1247	0.77	ug/l #	78
10) Methyl Iodide	2.53	142	1457	5.58	ug/l #	88
11) Tert butyl alcohol	3.07	59	184	0.29	ug/l #	73
13) Acrolein	2.31	56	63	7.07	ug/l #	1
15) Acrylonitrile	3.15	53	295	0.21	ug/l #	43
16) Acetone	2.45	43	7983	5.81	ug/l	96
20) Methylene Chloride	2.87	84	1360	0.48	ug/l #	84
25) 2-Butanone	4.70	43	386	0.21	ug/l #	52
29) Tetrahydrofuran	5.18	42	947	0.80	ug/l #	66
36) 1,1-Dichloropropene	5.67	75	15103	4.79	ug/l #	50
38) Carbon Tetrachloride	5.67	117	19330	6.16	ug/l #	16
53) t-1,3-Dichloropropene	8.45	75	21	2.40	ug/l #	43
54) cis-1,3-Dichloropropene	9.05	75	19	3.22	ug/l #	46
60) Dibromochloromethane	9.34	129	128	3.80	ug/l #	11
76) 1,2,3-Trichloropropane	11.14	75	76190	27.27	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	76190	84.14	ug/l #	7

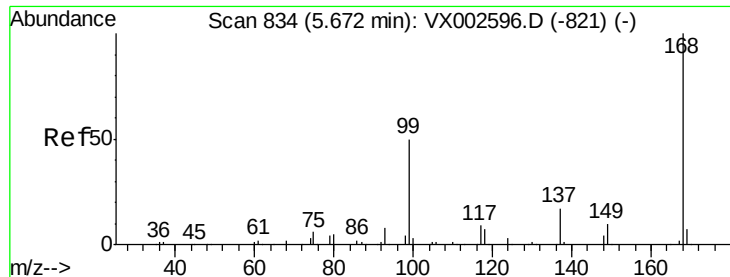
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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# 834

Delta R.T. 0.00 min

Lab File: VX002609.D

Acq: 15 Jun 2018 21:03

Instrument :

MSVOA_X

ClientSampleId :

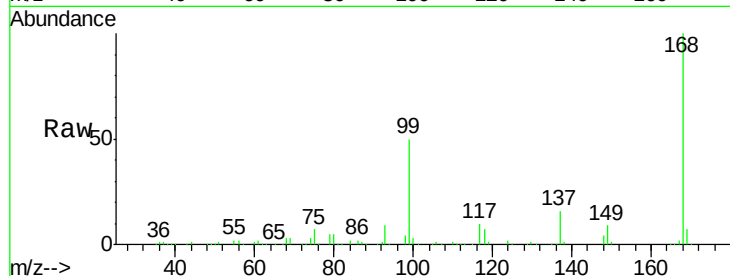
FB-061118

Tot Ion:168 Resp: 204927

Ion Ratio Lower Upper

168 100

99 49.8 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

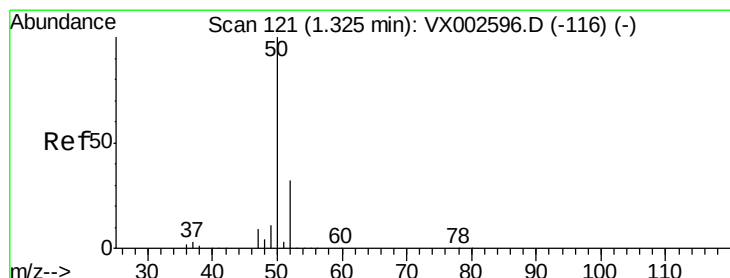
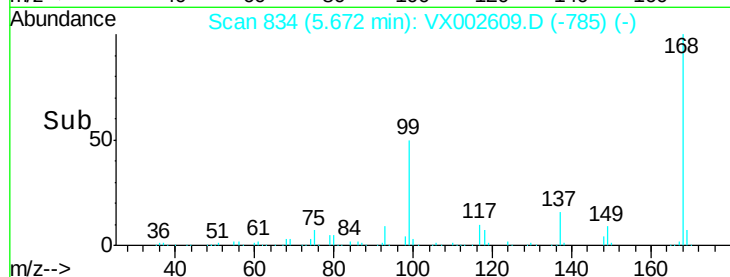
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.30 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX002609.D

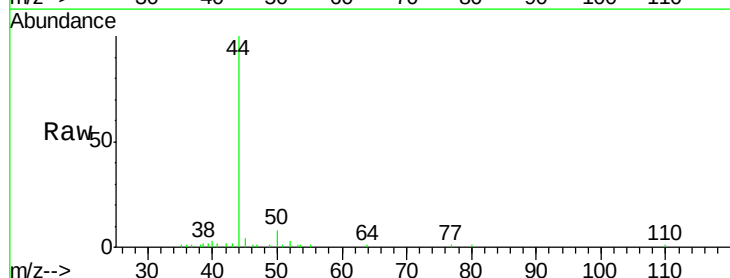
Acq: 15 Jun 2018 21:03

Tgt Ion: 50 Resp: 787

Ion Ratio Lower Upper

50 100

52 36.1 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

500

400

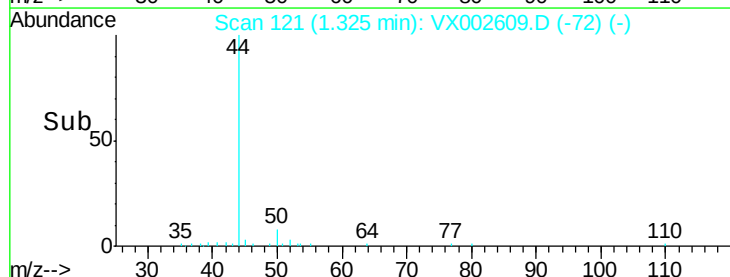
300

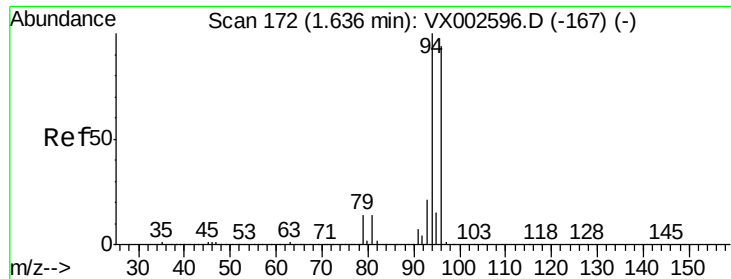
200

100

0

Time--> 1.30 1.35 1.40





#5

Bromomethane

Concen: 0.77 ug/l

RT: 1.66 min Scan# 176

Delta R.T. 0.02 min

Lab File: VX002609.D

Acq: 15 Jun 2018 21:03

Instrument :

MSVOA_X

ClientSampled :

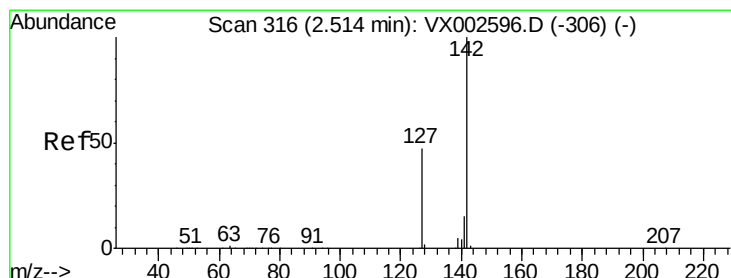
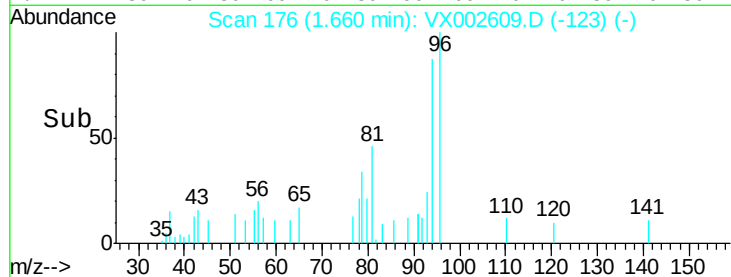
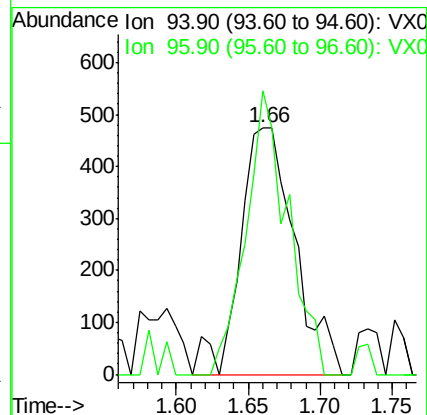
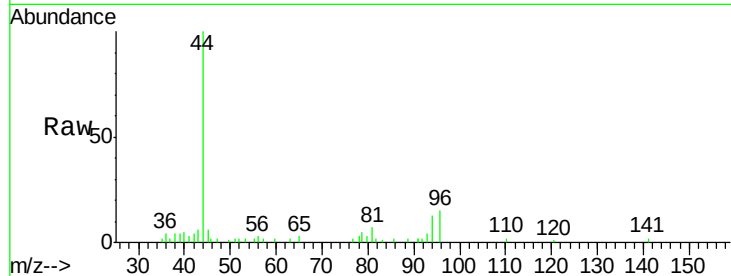
FB-061118

Tot Ion: 94 Resp: 1247

Ion Ratio Lower Upper

94 100

96 114.7 74.9 112.3#



#10

Methyl Iodide

Concen: 5.58 ug/l

RT: 2.53 min Scan# 318

Delta R.T. 0.01 min

Lab File: VX002609.D

Acq: 15 Jun 2018 21:03

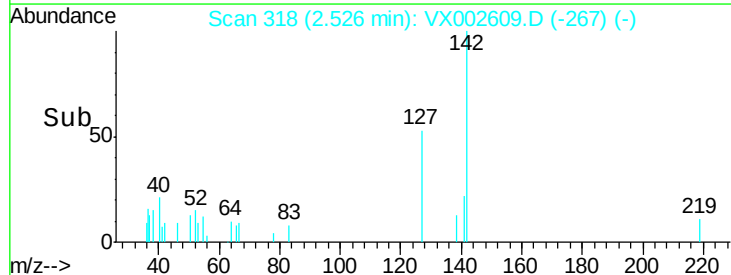
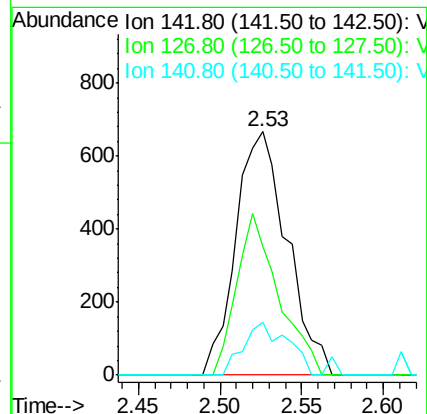
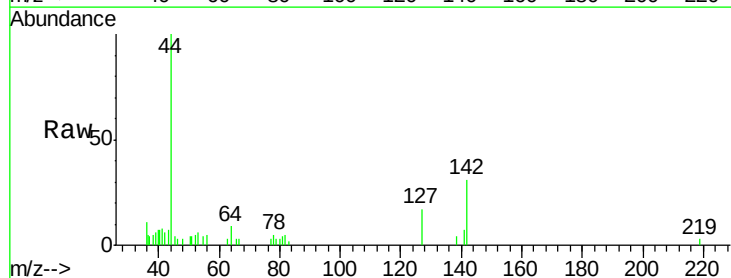
Tgt Ion: 142 Resp: 1457

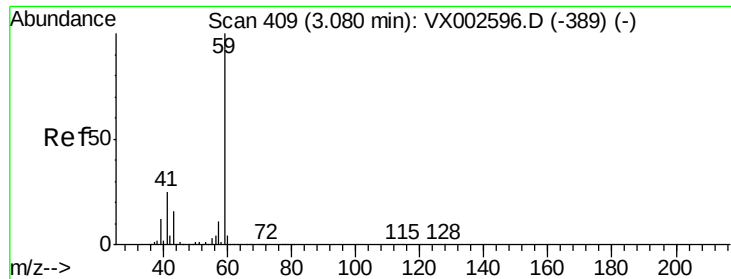
Ion Ratio Lower Upper

142 100

127 54.3 36.6 55.0

141 18.7 11.3 16.9#





#11

Tert butyl alcohol

Concen: 0.29 ug/l

RT: 3.07 min Scan# 408

Delta R.T. -0.01 min

Lab File: VX002609.D

Acq: 15 Jun 2018 21:03

Instrument :

MSVOA_X

ClientSampled :

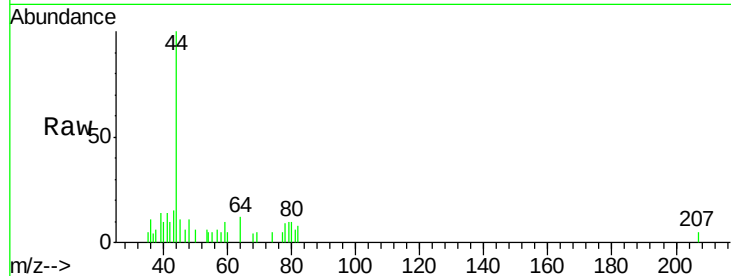
FB-061118

Tot Ion: 59 Resp: 184

Ion Ratio Lower Upper

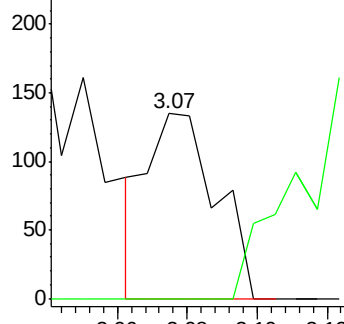
59 100

57 0.0 8.2 12.2#

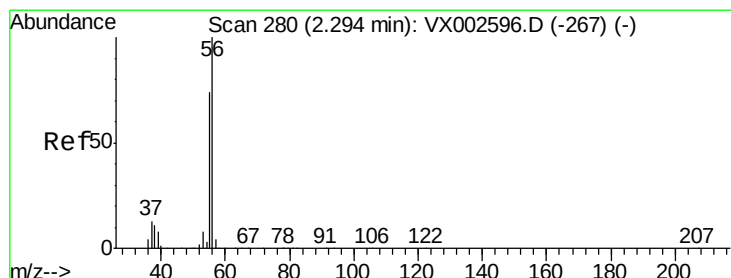
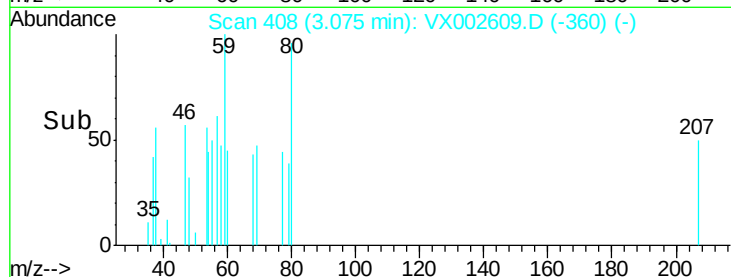


Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0



Time-->



#13

Acrolein

Concen: 7.07 ug/l

RT: 2.31 min Scan# 282

Delta R.T. 0.01 min

Lab File: VX002609.D

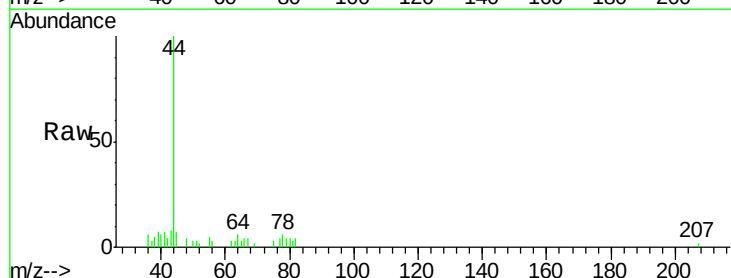
Acq: 15 Jun 2018 21:03

Tgt Ion: 56 Resp: 63

Ion Ratio Lower Upper

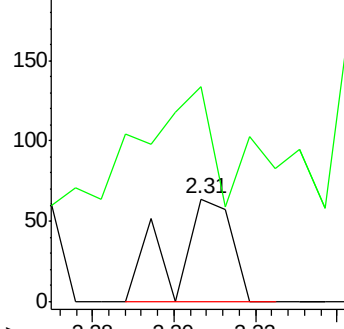
56 100

55 258.7 57.0 85.4#

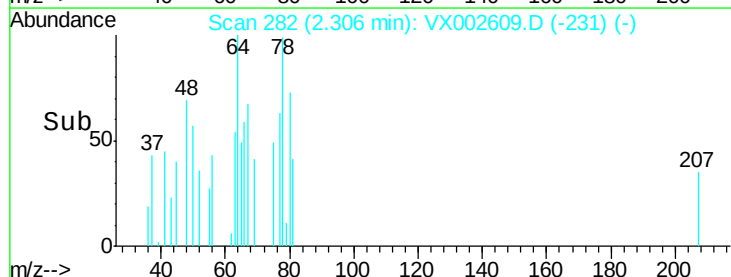


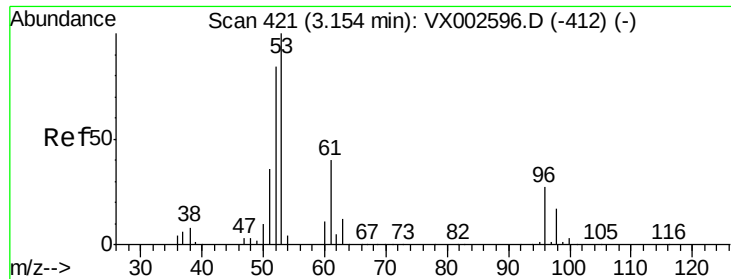
Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



Time-->





#15

Acrylonitrile

Concen: 0.21 ug/l

RT: 3.15 min Scan# 421

Delta R.T. 0.00 min

Lab File: VX002609.D

Acq: 15 Jun 2018 21:03

Instrument :

MSVOA_X

ClientSampled :

FB-061118

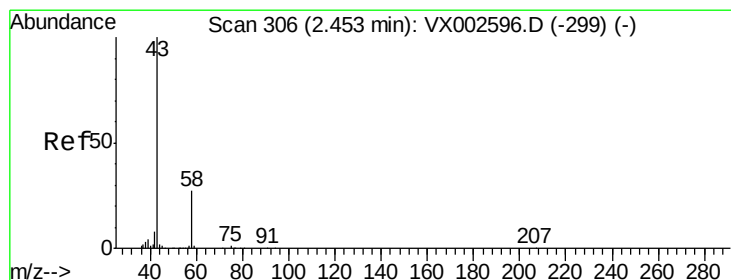
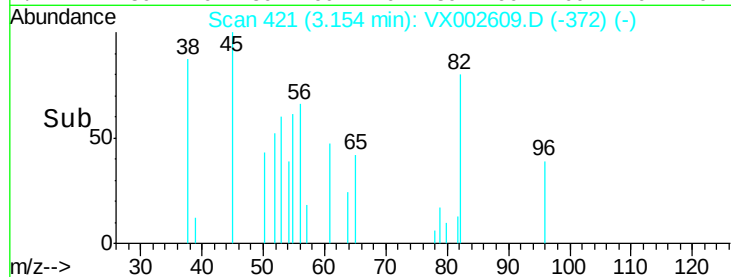
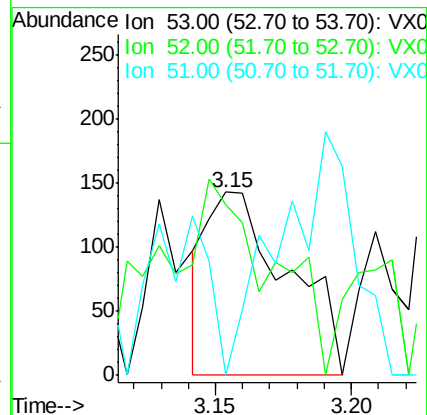
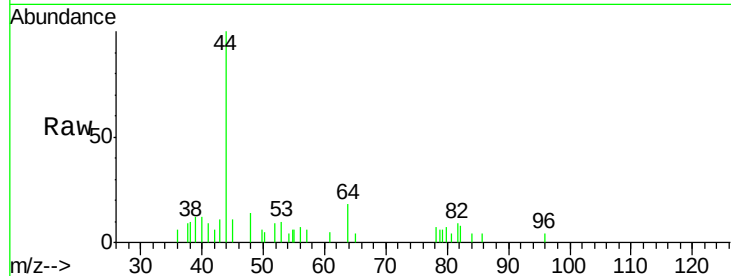
Tot Ion: 53 Resp: 295

Ion Ratio Lower Upper

53 100

52 144.1 66.7 100.1#

51 58.6 29.9 44.9#



#16

Acetone

Concen: 5.81 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002609.D

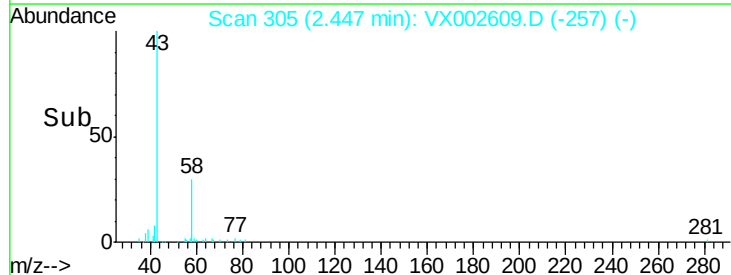
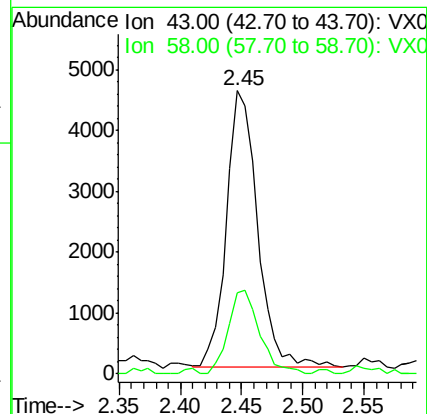
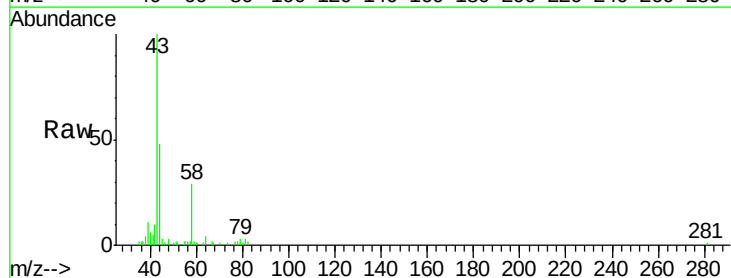
Acq: 15 Jun 2018 21:03

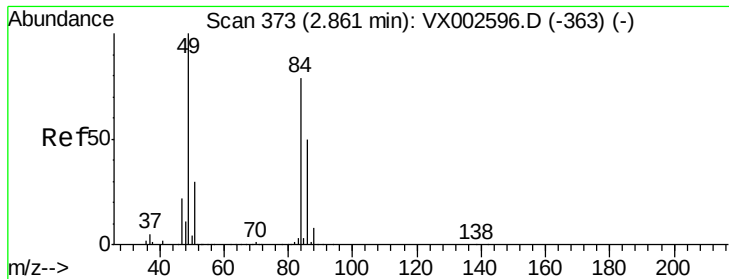
Tgt Ion: 43 Resp: 7983

Ion Ratio Lower Upper

43 100

58 29.5 22.1 33.1

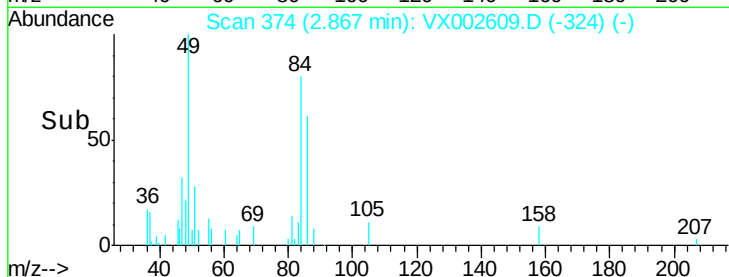
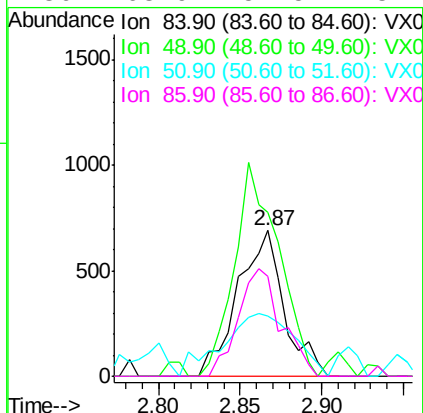
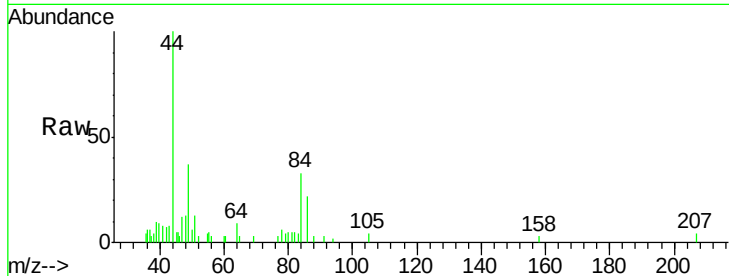




#20
Methylene Chloride
Concen: 0.48 ug/l
RT: 2.87 min Scan# 374
Delta R.T. 0.01 min
Lab File: VX002609.D
Acq: 15 Jun 2018 21:03

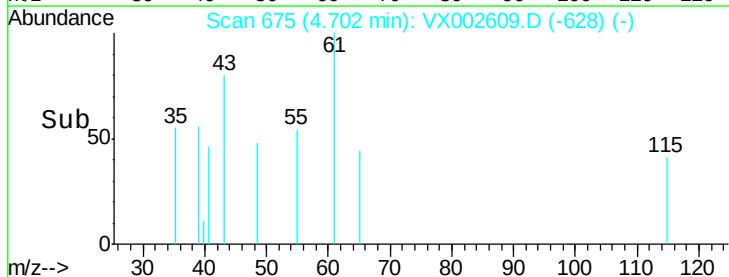
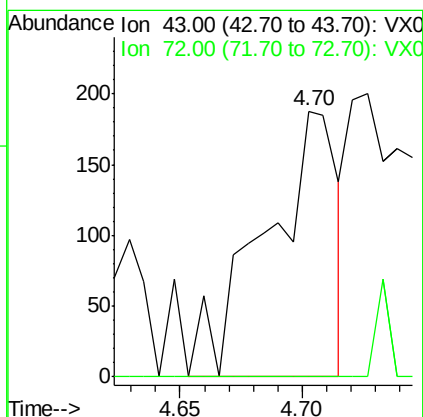
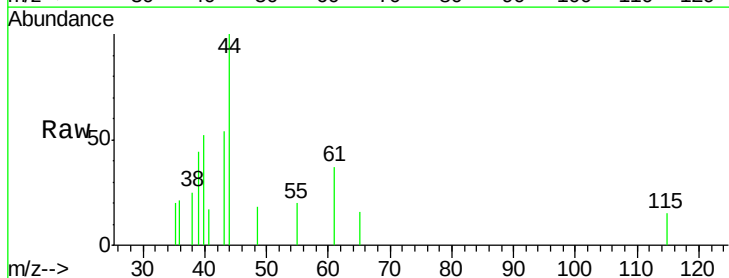
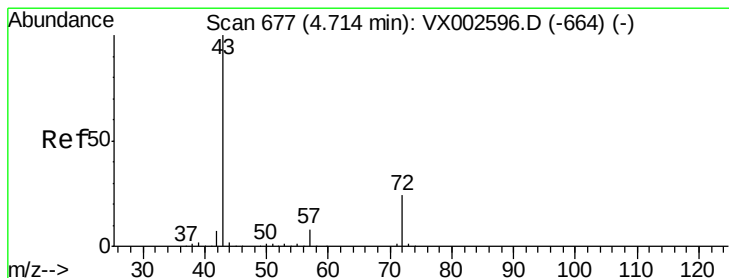
Instrument :
MSVOA_X
ClientSampleId :
FB-061118

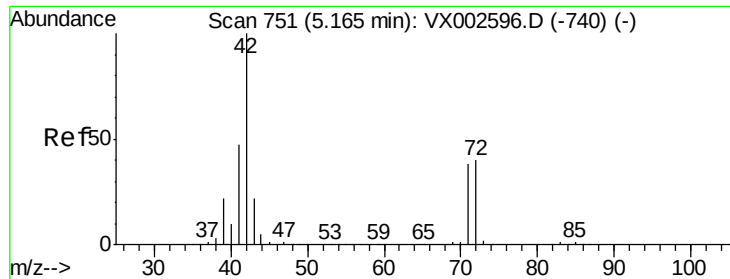
Tot Ion: 84 Resp: 1360
Ion Ratio Lower Upper
84 100
49 112.2 107.8 161.6
51 26.8 32.8 49.2#
86 68.9 52.5 78.7



#25
2-Butanone
Concen: 0.21 ug/l
RT: 4.70 min Scan# 675
Delta R.T. -0.01 min
Lab File: VX002609.D
Acq: 15 Jun 2018 21:03

Tgt Ion: 43 Resp: 386
Ion Ratio Lower Upper
43 100
72 0.0 18.5 27.7#





#29

Tetrahydrofuran

Concen: 0.80 ug/l

RT: 5.18 min Scan# 754

Delta R.T. 0.02 min

Lab File: VX002609.D

Acq: 15 Jun 2018 21:03

Instrument :

MSVOA_X

ClientSampled :

FB-061118

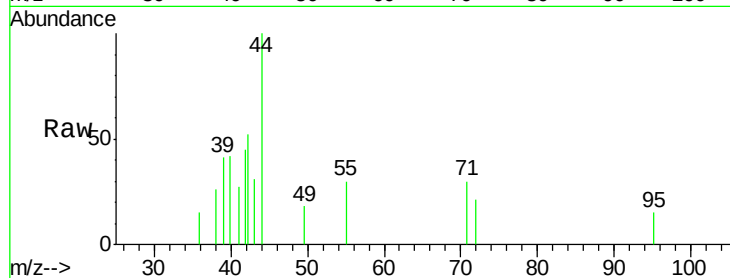
Tot Ion: 42 Resp: 947

Ion Ratio Lower Upper

42 100

72 9.8 32.0 48.0#

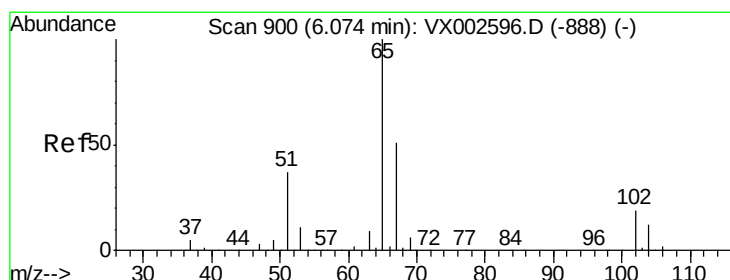
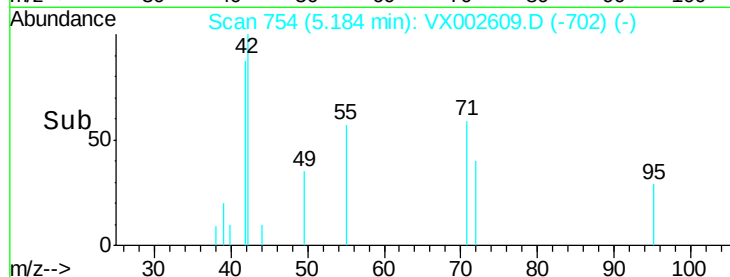
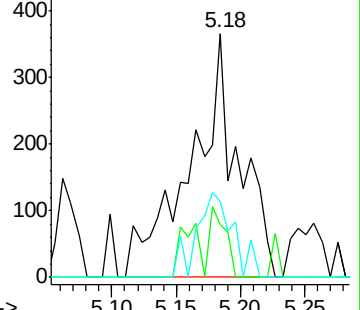
71 26.4 30.1 45.1#



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 45.31 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX002609.D

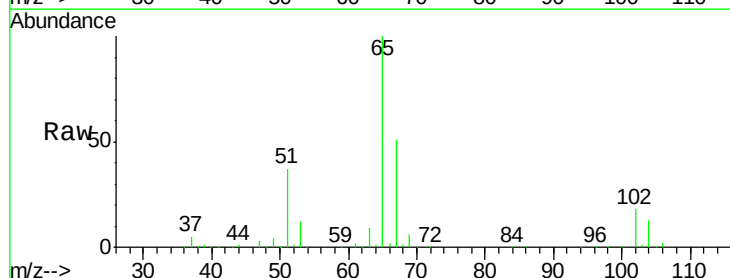
Acq: 15 Jun 2018 21:03

Tgt Ion: 65 Resp: 141089

Ion Ratio Lower Upper

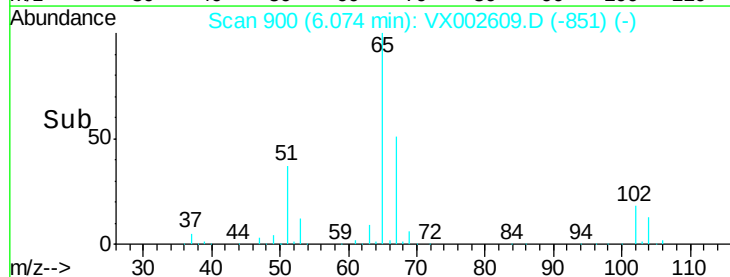
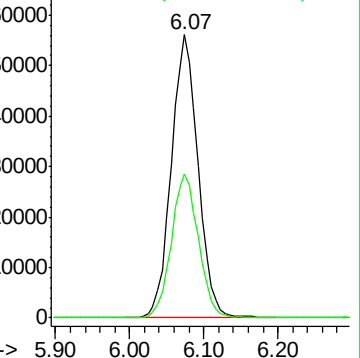
65 100

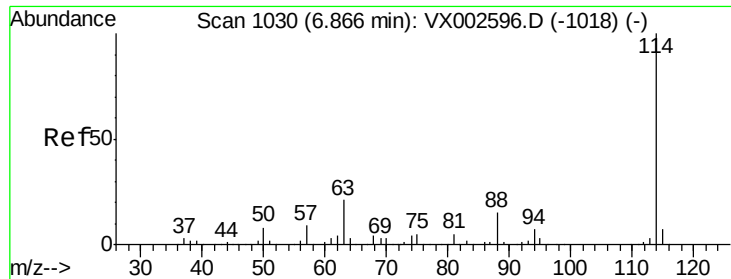
67 51.6 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

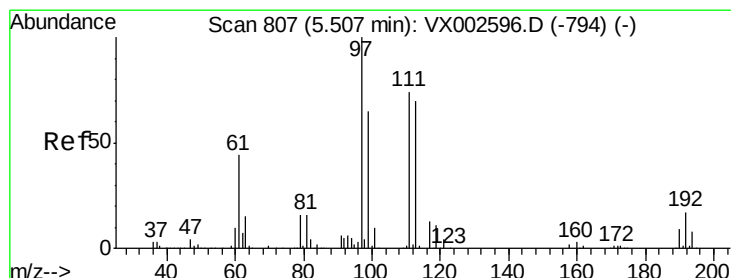
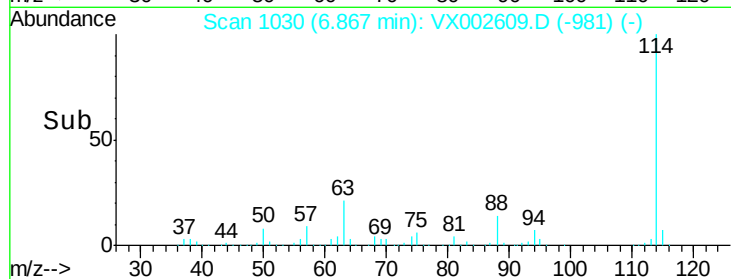
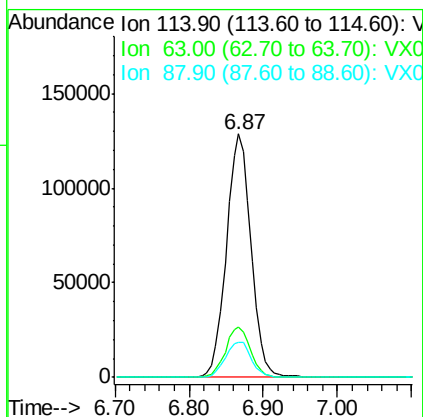
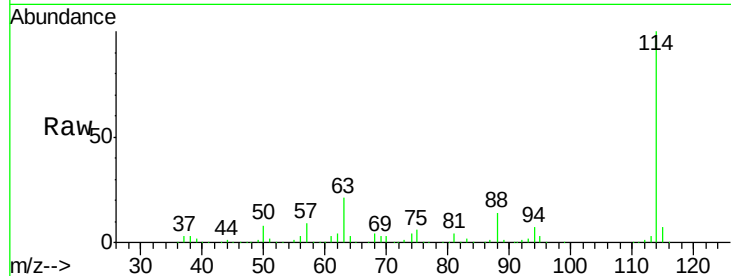




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX002609.D
 Acq: 15 Jun 2018 21:03

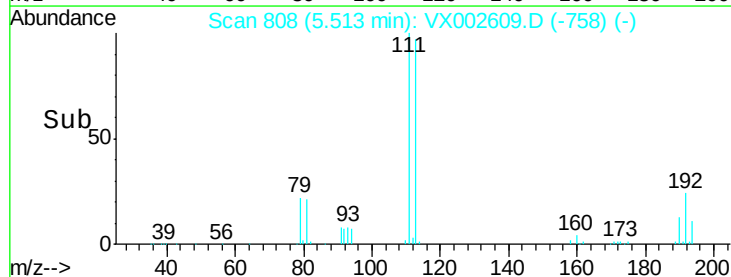
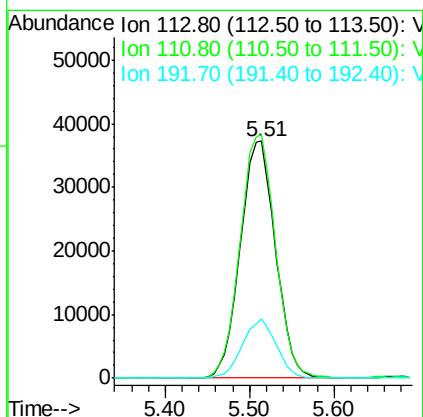
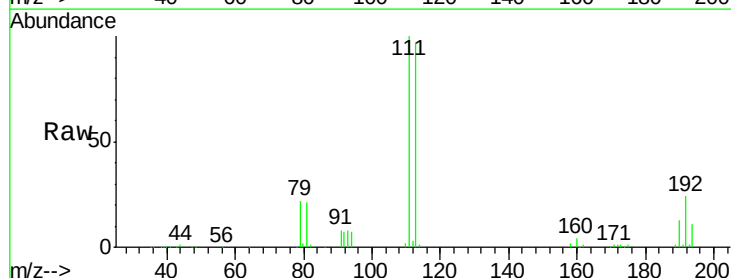
Instrument :
 MSVOA_X
 ClientSampleId :
 FB-061118

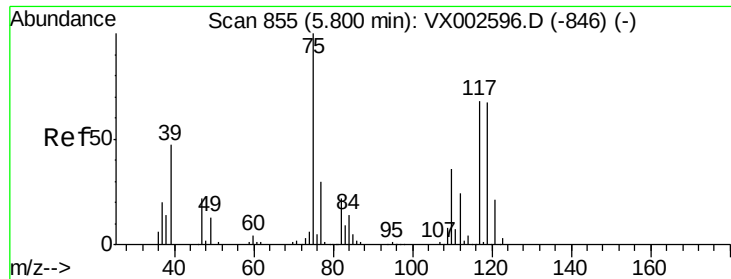
Tot Ion	Ratio	Lower	Upper
114	100		
63	20.6	0.0	41.4
88	14.5	0.0	30.0



#35
 Dibromofluoromethane
 Concen: 44.50 ug/l
 RT: 5.51 min Scan# 808
 Delta R.T. 0.01 min
 Lab File: VX002609.D
 Acq: 15 Jun 2018 21:03

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.4	81.4	122.0
192	23.8	19.1	28.7

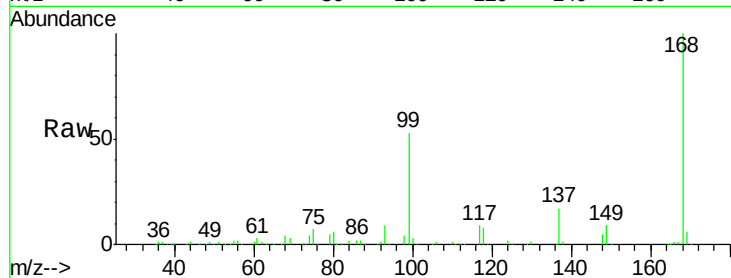




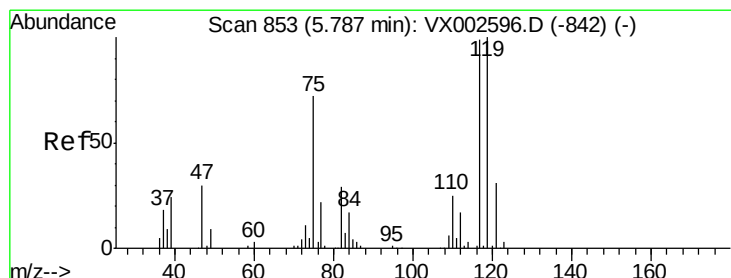
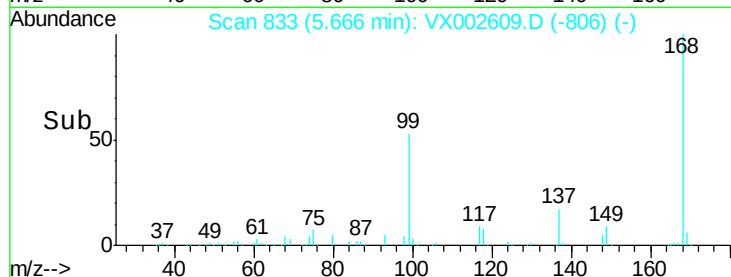
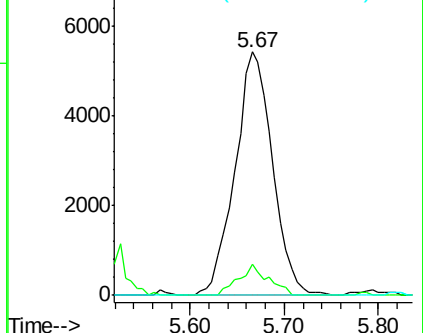
#36
 1,1-Dichloropropene
 Concen: 4.79 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX002609.D
 Acq: 15 Jun 2018 21:03

Instrument :
 MSVOA_X
 ClientSampled :
 FB-061118

Tot Ion	Ratio	Lower	Upper
75	100		
110	10.1	18.1	54.4#
77	0.0	24.3	36.5#

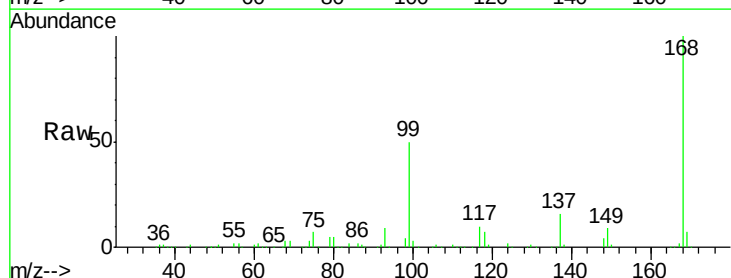


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

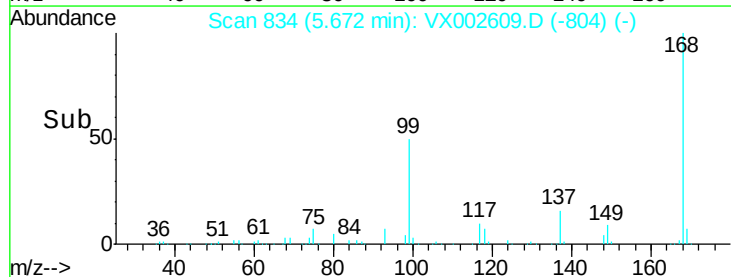
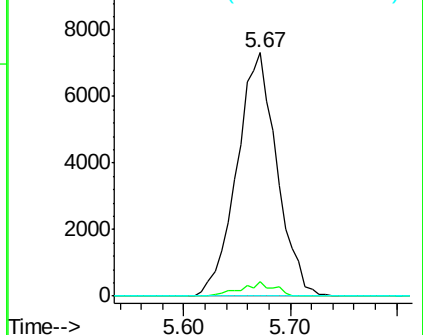


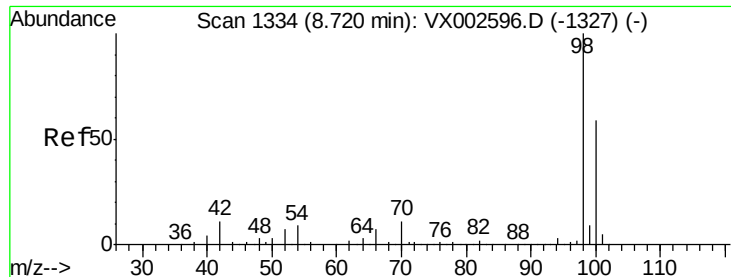
#38
 Carbon Tetrachloride
 Concen: 6.16 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.12 min
 Lab File: VX002609.D
 Acq: 15 Jun 2018 21:03

Tgt 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





#50

Toluene-d8

Concen: 46.94 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX002609.D

Acq: 15 Jun 2018 21:03

Instrument :

MSVOA_X

ClientSampled :

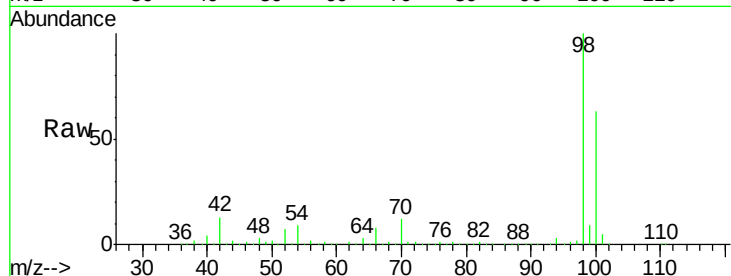
FB-061118

Tot Ion: 98 Resp: 422029

Ion Ratio Lower Upper

98 100

100 63.8 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

8.72

300000

250000

200000

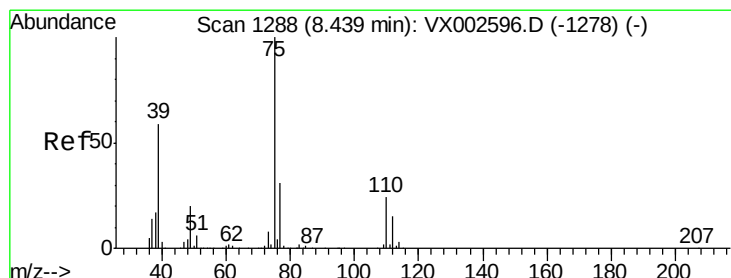
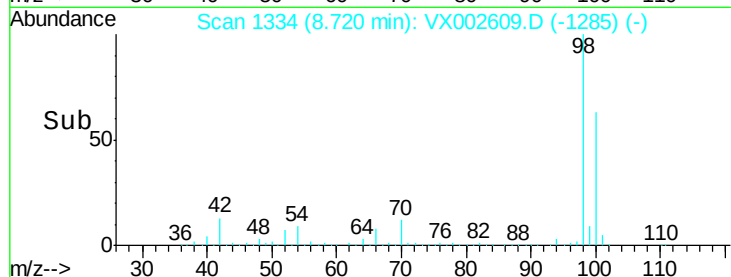
150000

100000

50000

0

Time--> 8.60 8.70 8.80



#53

t-1,3-Dichloropropene

Concen: 2.40 ug/l

RT: 8.45 min Scan# 1290

Delta R.T. 0.01 min

Lab File: VX002609.D

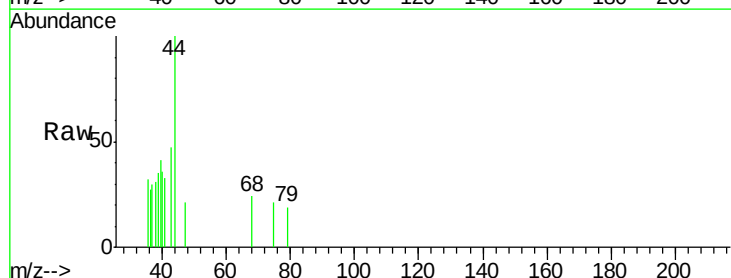
Acq: 15 Jun 2018 21:03

Tgt Ion: 75 Resp: 21

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

8.45

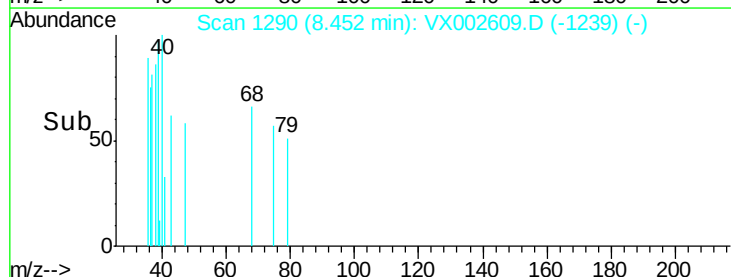
60

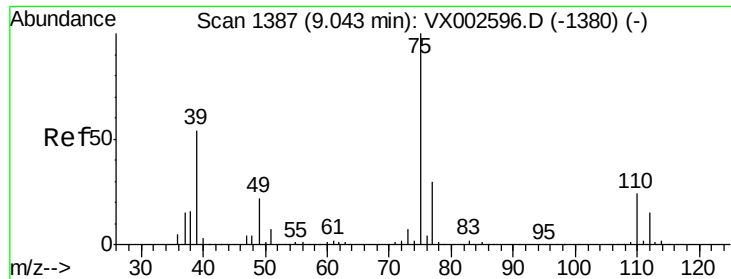
40

20

0

Time--> 8.43 8.44 8.45 8.46 8.47



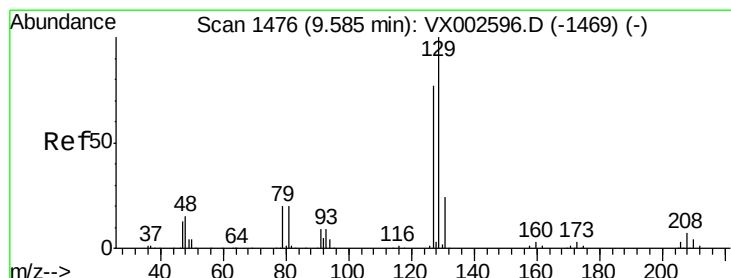
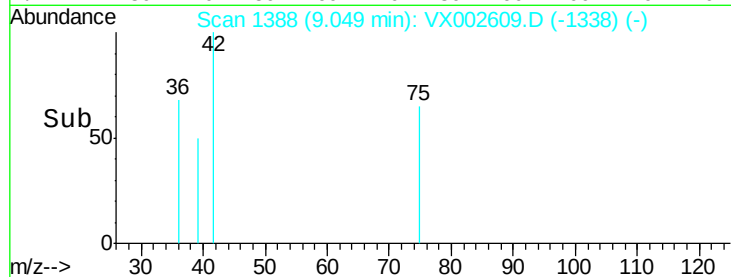
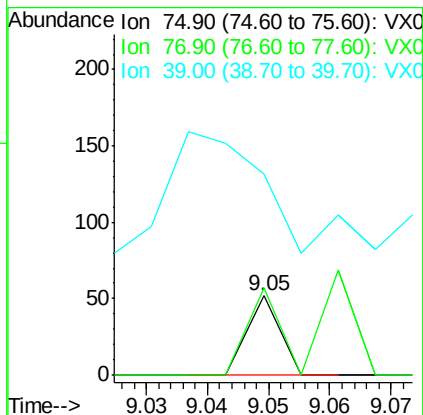
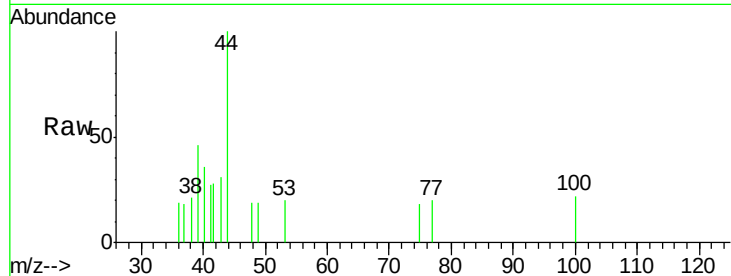


#54

cis-1,3-Dichloropropene
Concen: 3.22 ug/l
RT: 9.05 min Scan# 1388
Delta R.T. 0.01 min
Lab File: VX002609.D
Acq: 15 Jun 2018 21:03

Instrument :
MSVOA_X
ClientSampled :
FB-061118

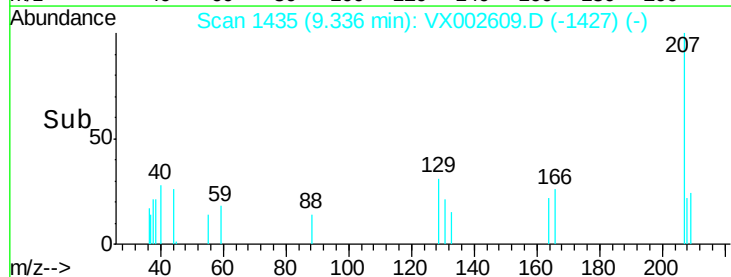
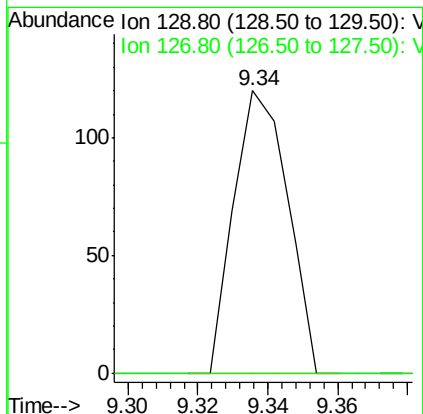
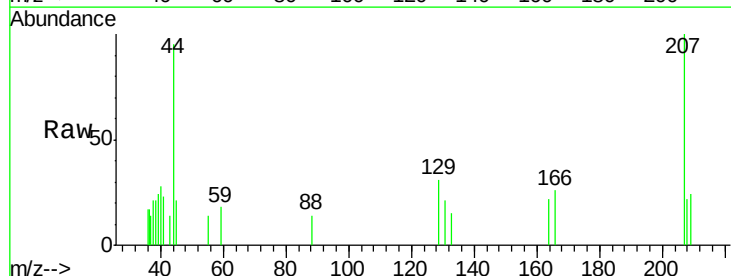
Tot Ion: 75 Resp: 19
Ion Ratio Lower Upper
75 100
77 109.6 24.8 37.2#
39 51.9 42.4 63.6

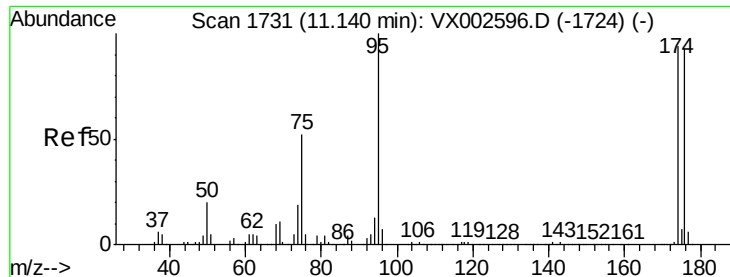


#60

Dibromochloromethane
Concen: 3.80 ug/l
RT: 9.34 min Scan# 1435
Delta R.T. -0.25 min
Lab File: VX002609.D
Acq: 15 Jun 2018 21:03

Tgt Ion:129 Resp: 128
Ion Ratio Lower Upper
129 100
127 0.0 38.5 115.3#





#62

4-Bromofluorobenzene

Concen: 42.66 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX002609.D

Acq: 15 Jun 2018 21:03

Instrument :

MSVOA_X

ClientSampleId :

FB-061118

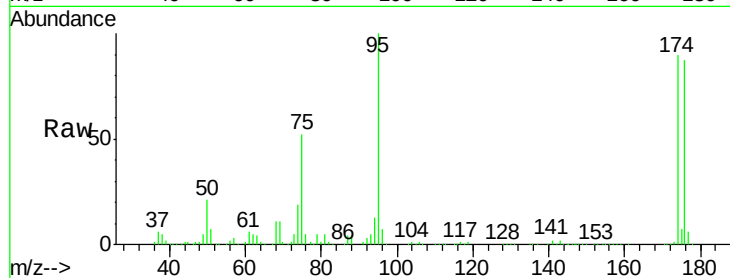
Tot Ion: 95 Resp: 145347

Ion Ratio Lower Upper

95 100

174 94.2 0.0 187.4

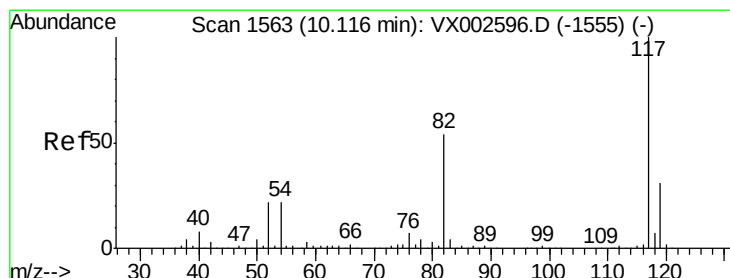
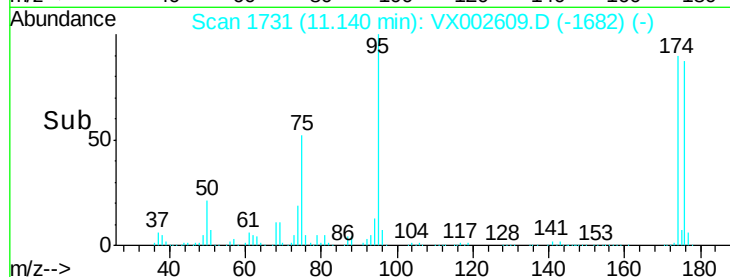
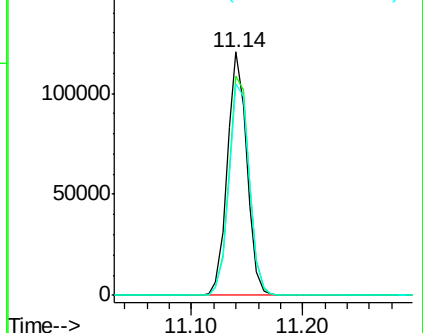
176 91.4 0.0 181.0



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: VX002609.D

Acq: 15 Jun 2018 21:03

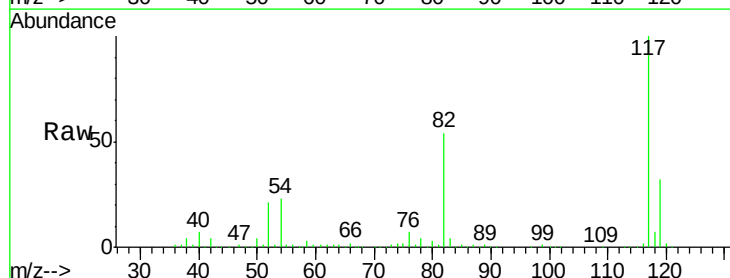
Tgt Ion: 117 Resp: 273607

Ion Ratio Lower Upper

117 100

82 54.4 45.0 67.4

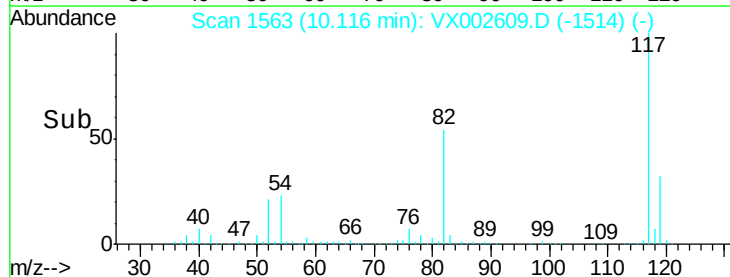
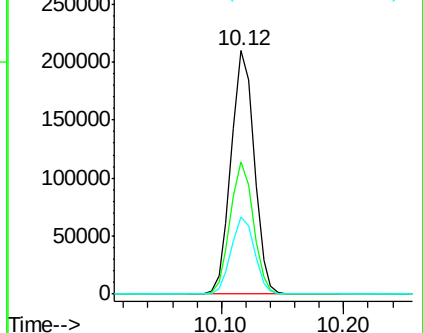
119 31.7 25.8 38.6

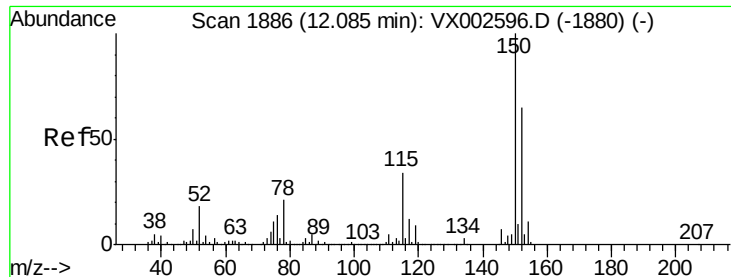


Abundance Ion 116.90 (116.60 to 117.60): V

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: VX002609.D

Acq: 15 Jun 2018 21:03

Instrument :

MSVOA_X

ClientSampleId :

FB-061118

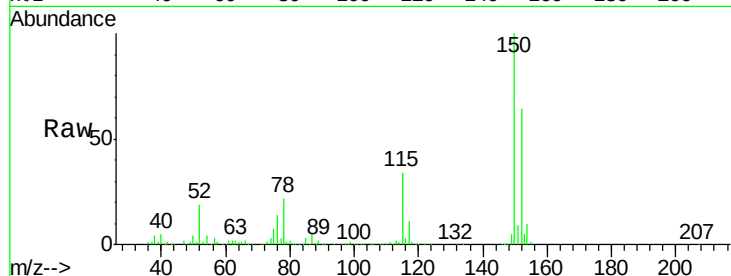
Tot Ion:152 Resp: 148062

Ion Ratio Lower Upper

152 100

115 54.7 40.1 120.2

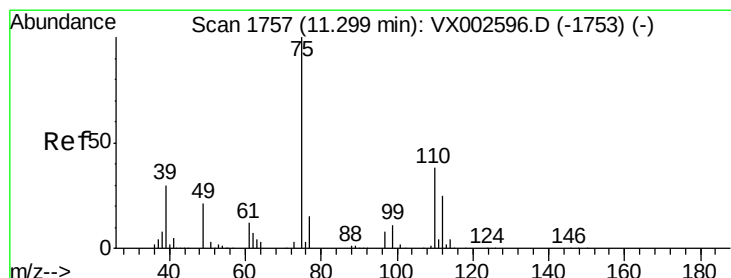
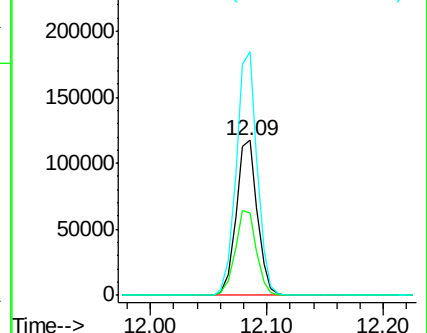
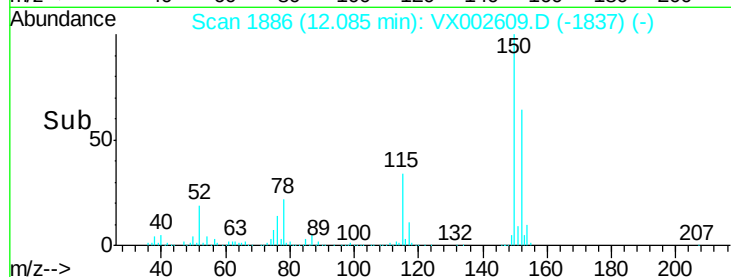
150 155.7 0.0 347.2



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: 27.27 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002609.D

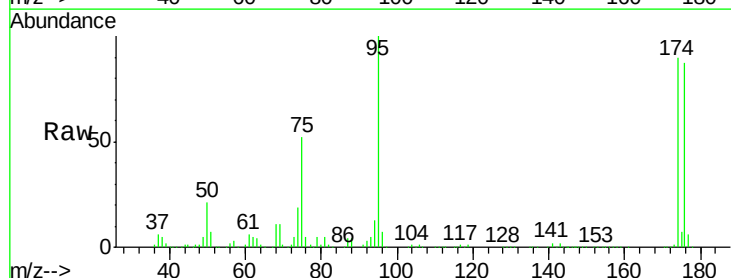
Acq: 15 Jun 2018 21:03

Tgt Ion: 75 Resp: 76190

Ion Ratio Lower Upper

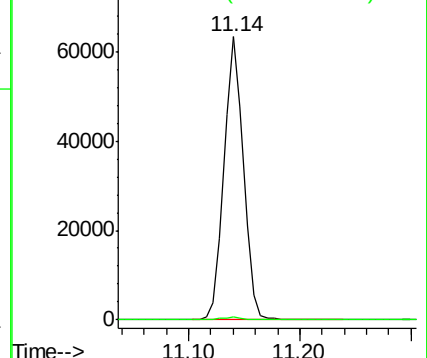
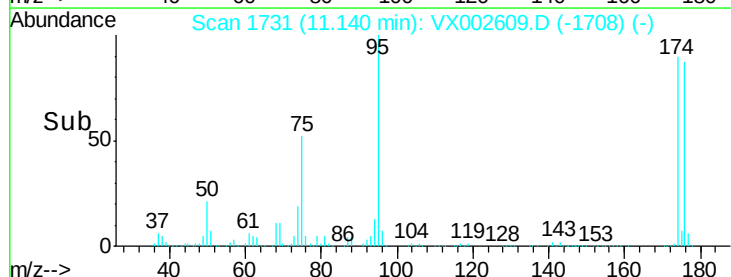
75 100

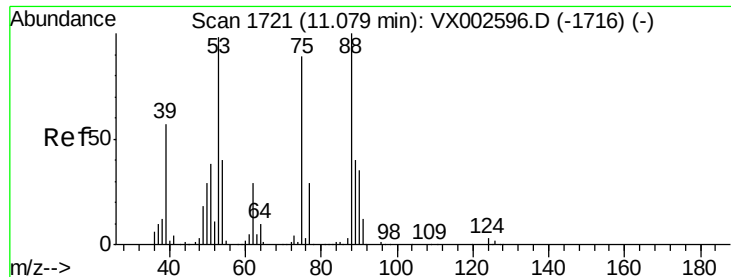
77 1.1 22.8 68.3#



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: 84.14 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002609.D

Acq: 15 Jun 2018 21:03

Instrument :

MSVOA_X

ClientSampleId :

FB-061118

Tot Ion: 75 Resp: 76190

Ion Ratio Lower Upper

75 100

53 0.1 86.8 130.2#

89 0.0 38.2 57.2#

