

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061518\
 Data File : VX002608.D
 Acq On : 15 Jun 2018 20:36
 Operator : JC/MD
 Sample : J3544-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 15 23:52:45 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	207802	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	296858	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	277540	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	157725	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	141060	44.67	ug/l	0.00
Spiked Amount			Recovery	=	89.34%	
35) Dibromofluoromethane	5.51	113	106729	45.05	ug/l	0.00
Spiked Amount			Recovery	=	90.10%	
50) Toluene-d8	8.72	98	426516	47.41	ug/l	0.00
Spiked Amount			Recovery	=	94.82%	
62) 4-Bromofluorobenzene	11.14	95	151213	44.36	ug/l	0.00
Spiked Amount			Recovery	=	88.72%	

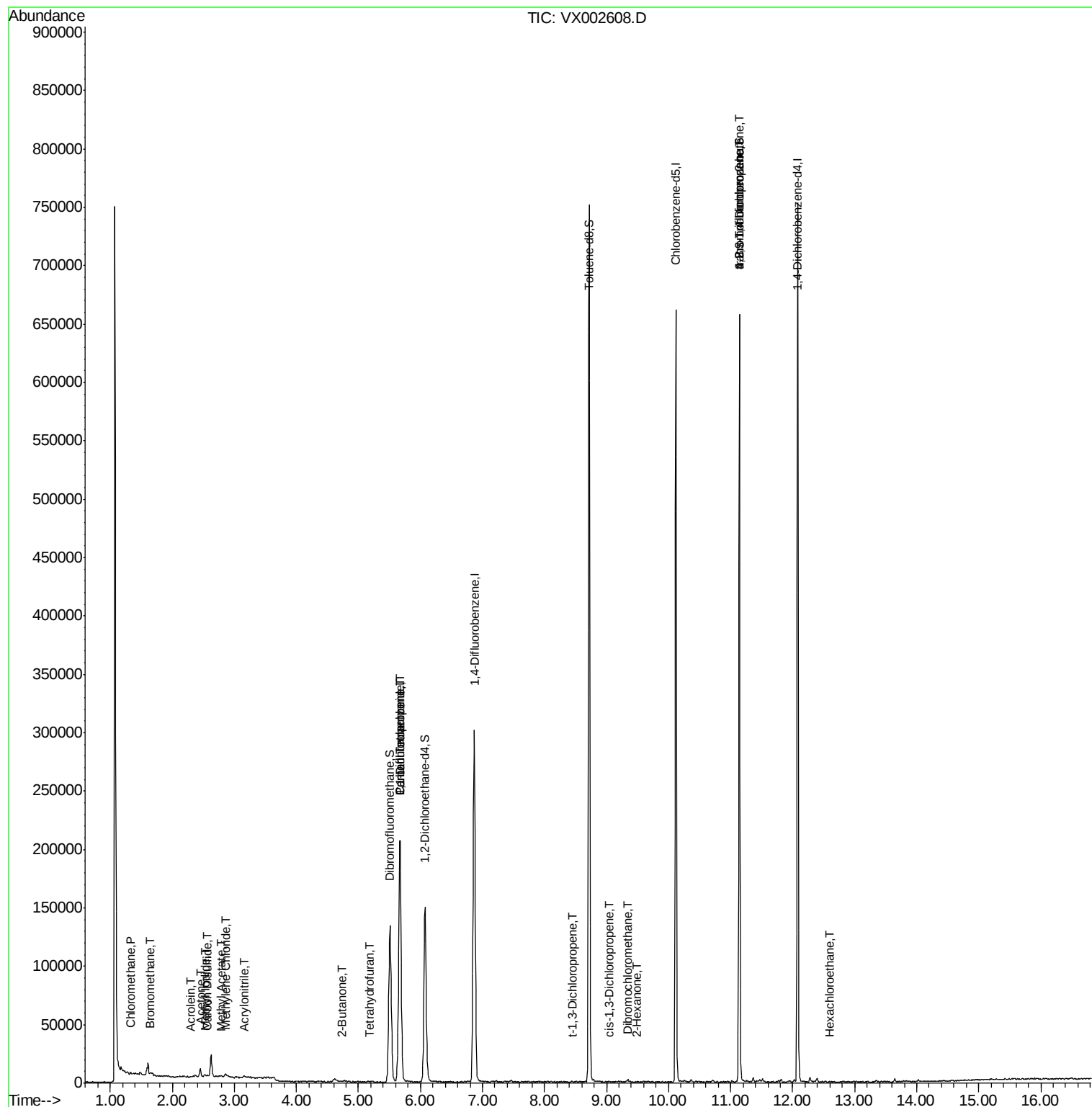
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	823	0.31	ug/l	95
5) Bromomethane	1.65	94	746	0.45	ug/l	# 74
10) Methyl Iodide	2.53	142	1667	5.63	ug/l	94
13) Acrolein	2.29	56	222	7.57	ug/l	# 1
15) Acrylonitrile	3.16	53	583	0.41	ug/l	# 35
16) Acetone	2.45	43	9421	6.76	ug/l	# 88
17) Carbon Disulfide	2.57	76	1271	0.23	ug/l	# 95
18) Methyl Acetate	2.78	43	1009	0.27	ug/l	95
20) Methylene Chloride	2.86	84	1157	0.41	ug/l	# 83
25) 2-Butanone	4.72	43	509	0.28	ug/l	# 52
29) Tetrahydrofuran	5.18	42	367	0.31	ug/l	# 46
36) 1,1-Dichloropropene	5.67	75	14350	4.55	ug/l	# 52
38) Carbon Tetrachloride	5.67	117	18779	5.98	ug/l	# 15
53) t-1,3-Dichloropropene	8.45	75	88	2.42	ug/l	# 1
54) cis-1,3-Dichloropropene	9.05	75	94	3.24	ug/l	# 52
59) 2-Hexanone	9.50	43	725	0.25	ug/l	# 51
60) Dibromochloromethane	9.34	129	282	3.86	ug/l	# 11
76) 1,2,3-Trichloropropane	11.14	75	80260	26.97	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	80260	83.25	ug/l	# 6
90) Hexachloroethane	12.59	117	22	2.64	ug/l	# 1

(#) = 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# 834

Delta R.T. 0.00 min

Lab File: VX002608.D

Acq: 15 Jun 2018 20:36

Instrument :

MSVOA_X

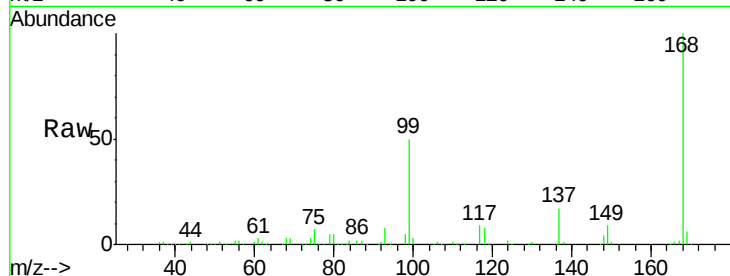
ClientSampleId :

Tot Ion:168 Resp: 207802

Ion Ratio Lower Upper

168 100

99 50.4 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

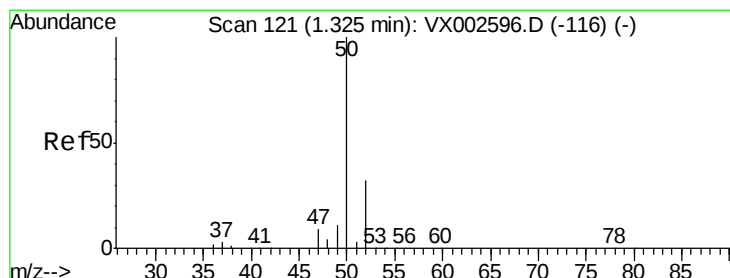
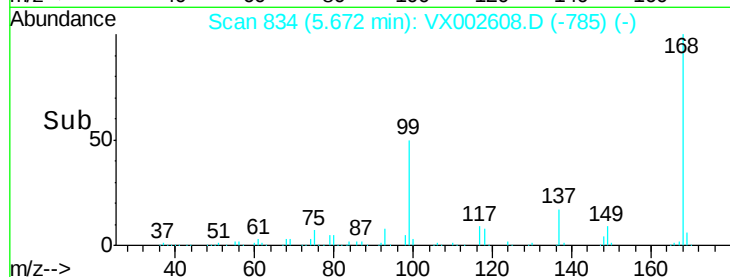
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.31 ug/l

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX002608.D

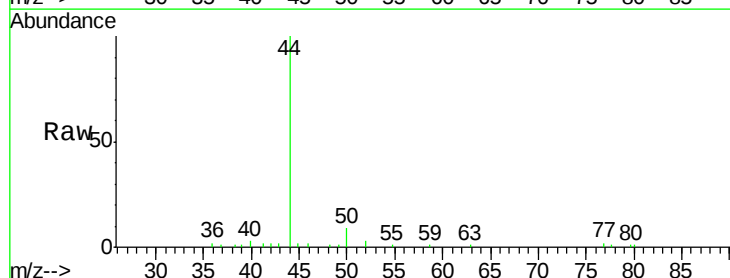
Acq: 15 Jun 2018 20:36

Tgt Ion: 50 Resp: 823

Ion Ratio Lower Upper

50 100

52 29.0 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

600

500

400

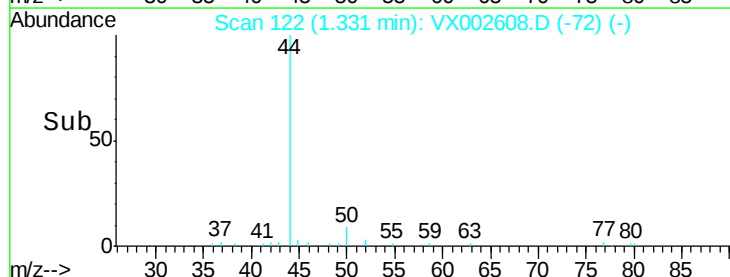
300

200

100

0

Time-->





#5

Bromomethane

Concen: 0.45 ug/l

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX002608.D

Acq: 15 Jun 2018 20:36

Instrument :

MSVOA_X

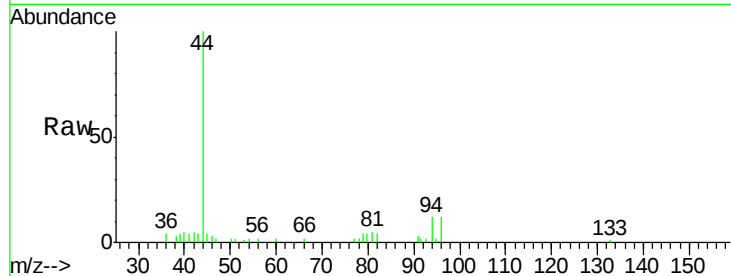
ClientSampleId :

Tot Ion: 94 Resp: 746

Ion Ratio Lower Upper

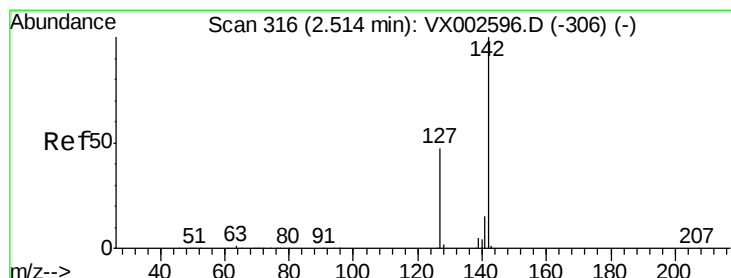
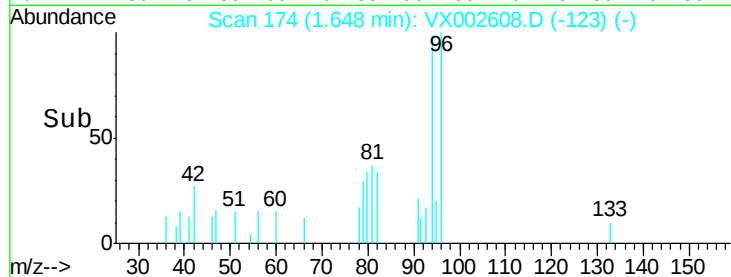
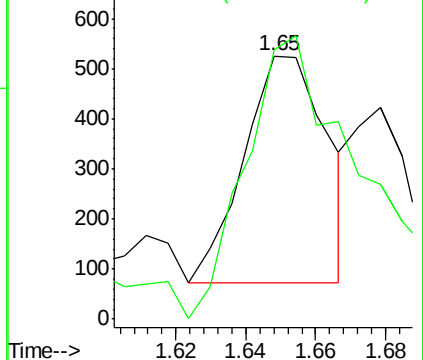
94 100

96 118.8 74.9 112.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#10

Methyl Iodide

Concen: 5.63 ug/l

RT: 2.53 min Scan# 318

Delta R.T. 0.01 min

Lab File: VX002608.D

Acq: 15 Jun 2018 20:36

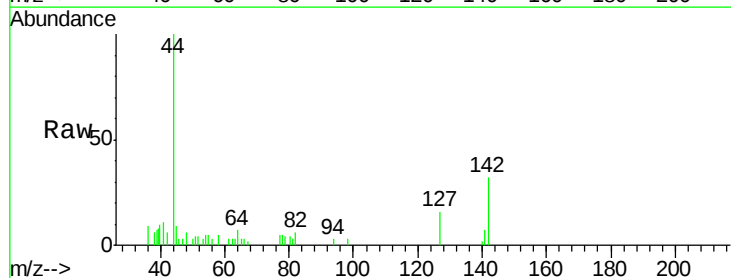
Tgt Ion:142 Resp: 1667

Ion Ratio Lower Upper

142 100

127 49.2 36.6 55.0

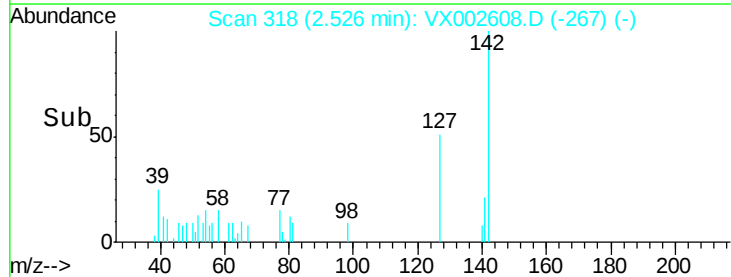
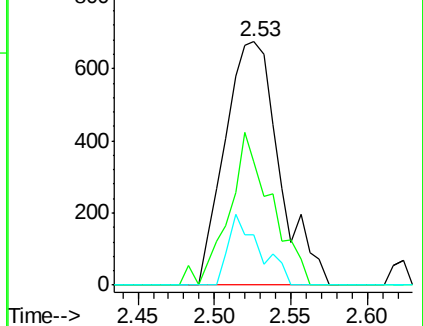
141 16.9 11.3 16.9

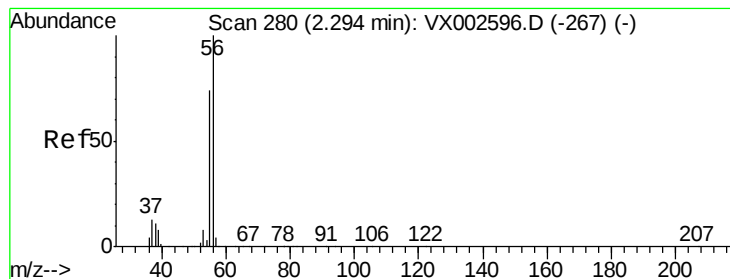


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#13

Acrolein

Concen: 7.57 ug/l

RT: 2.29 min Scan# 280

Delta R.T. 0.00 min

Lab File: VX002608.D

Acq: 15 Jun 2018 20:36

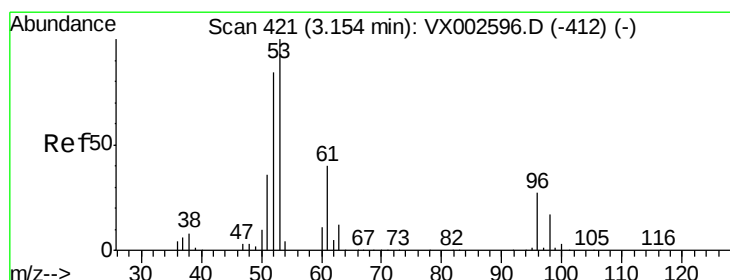
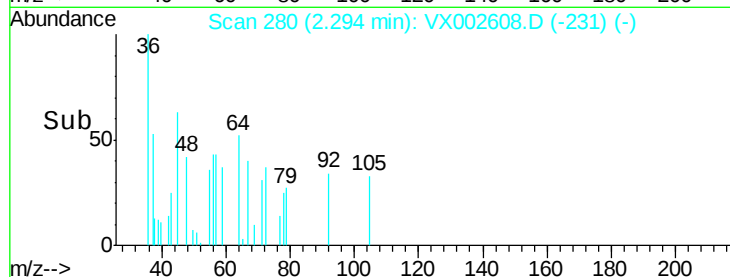
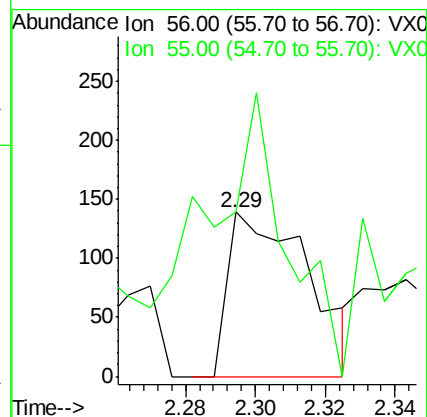
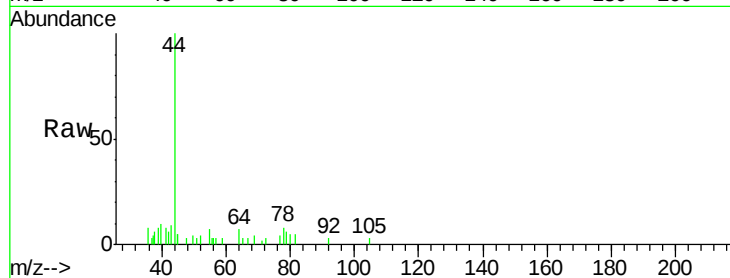
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 222

Ion Ratio Lower Upper

56 100

55 170.7 57.0 85.4#



#15

Acrylonitrile

Concen: 0.41 ug/l

RT: 3.16 min Scan# 422

Delta R.T. 0.01 min

Lab File: VX002608.D

Acq: 15 Jun 2018 20:36

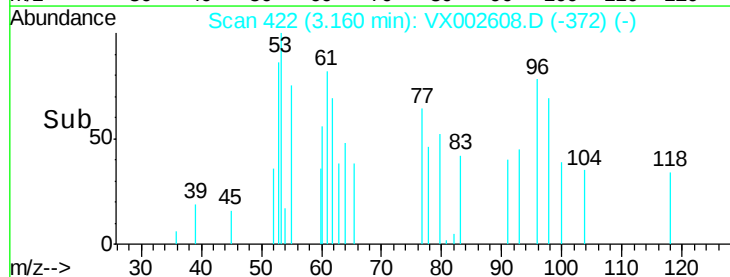
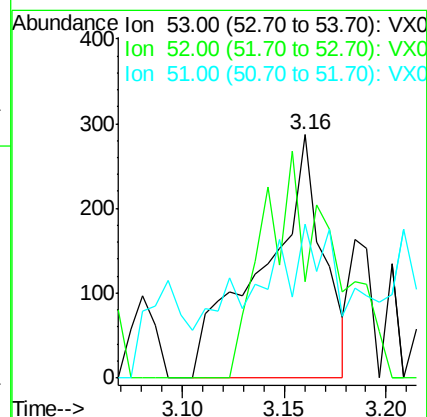
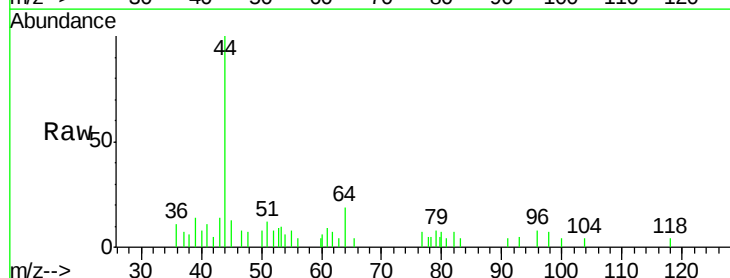
Tgt Ion: 53 Resp: 583

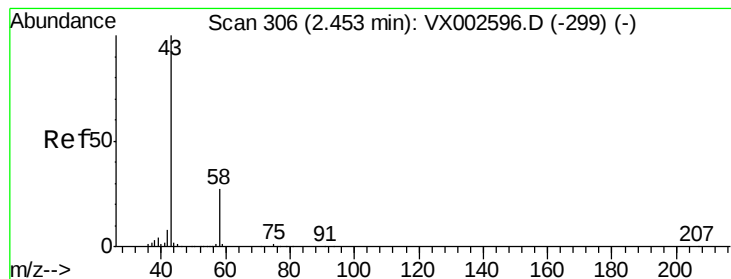
Ion Ratio Lower Upper

53 100

52 0.0 66.7 100.1#

51 35.2 29.9 44.9





#16

Acetone

Concen: 6.76 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.00 min

Lab File: VX002608.D

Acq: 15 Jun 2018 20:36

Instrument :

MSVOA_X

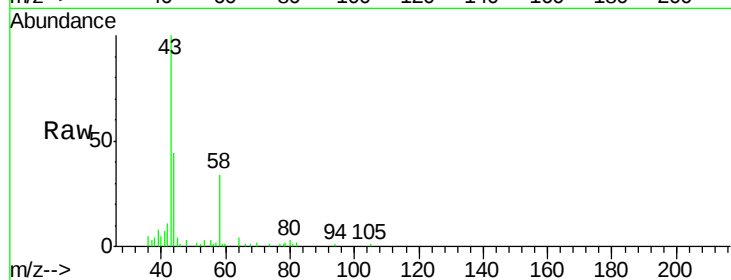
ClientSampled :

Tot Ion: 43 Resp: 9421

Ion Ratio Lower Upper

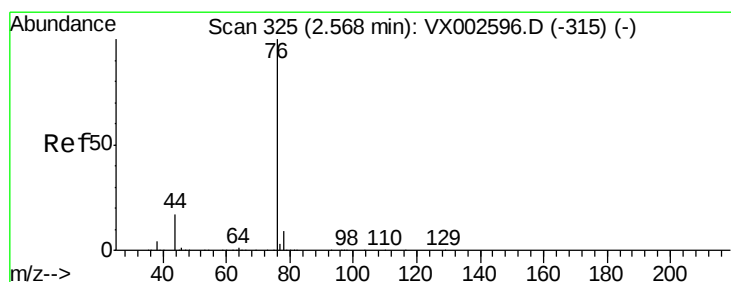
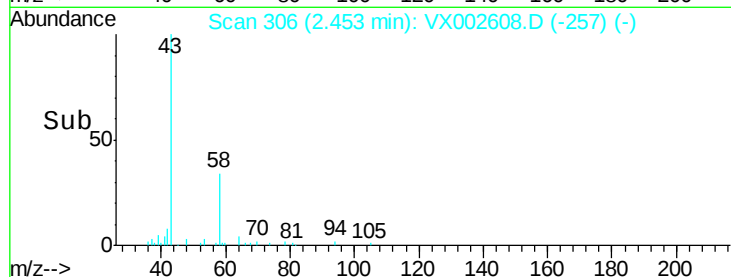
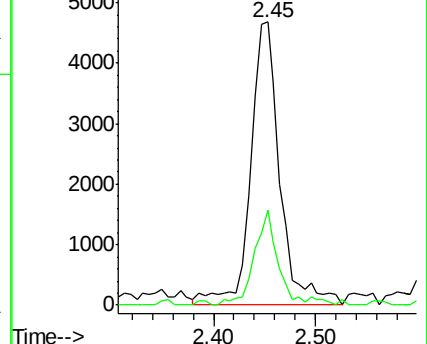
43 100

58 33.6 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: 0.23 ug/l

RT: 2.57 min Scan# 325

Delta R.T. 0.00 min

Lab File: VX002608.D

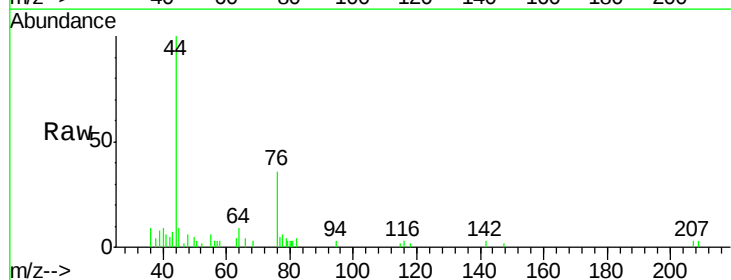
Acq: 15 Jun 2018 20:36

Tgt Ion: 76 Resp: 1271

Ion Ratio Lower Upper

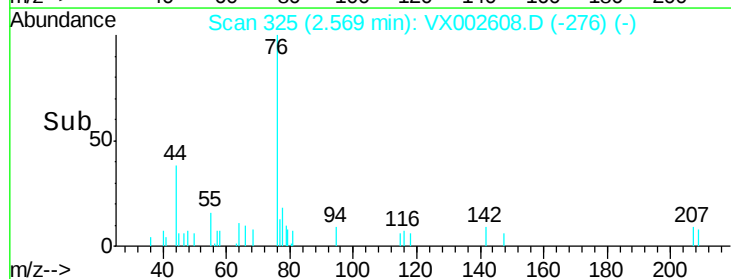
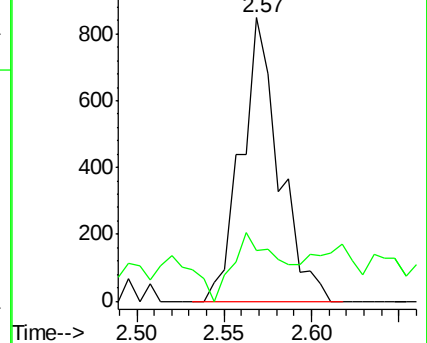
76 100

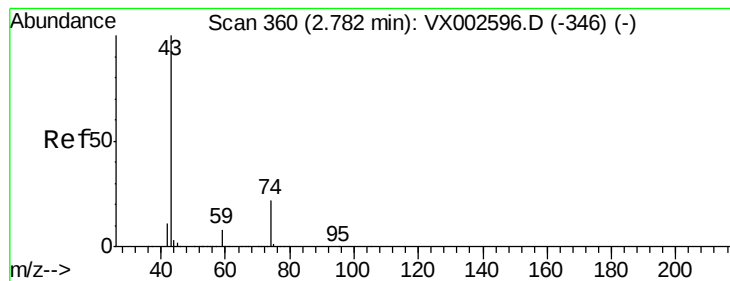
78 6.8 6.9 10.3#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0





#18

Methvl Acetate

Concen: 0.27 ug/l

RT: 2.78 min Scan# 360

Delta R.T. 0.00 min

Lab File: VX002608.D

Acq: 15 Jun 2018 20:36

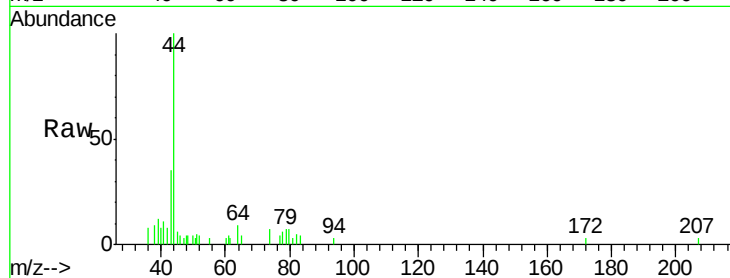
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 43 Resp: 1009

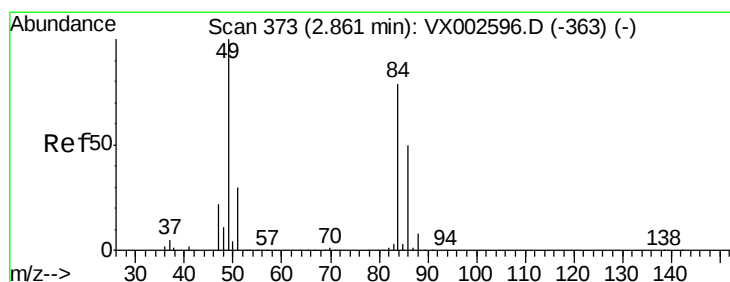
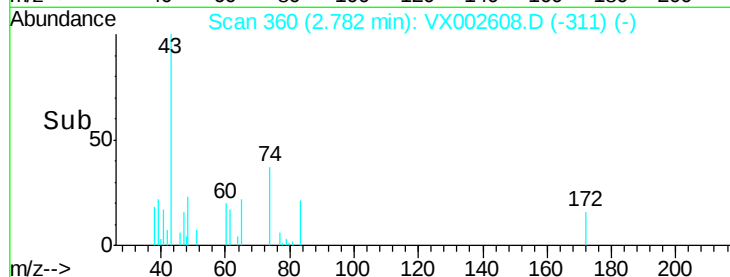
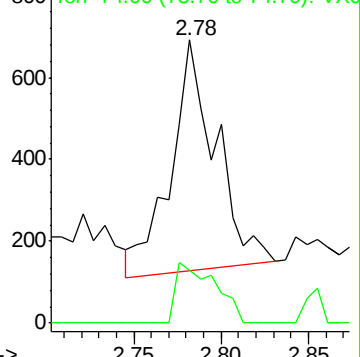
Ion Ratio Lower Upper

43 100

74 23.1 16.7 25.1



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 74.00 (73.70 to 74.70): VX0



#20

Methylene Chloride

Concen: 0.41 ug/l

RT: 2.86 min Scan# 373

Delta R.T. 0.00 min

Lab File: VX002608.D

Acq: 15 Jun 2018 20:36

Tgt Ion: 84 Resp: 1157

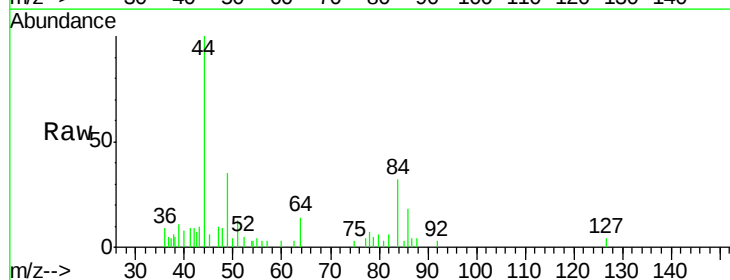
Ion Ratio Lower Upper

84 100

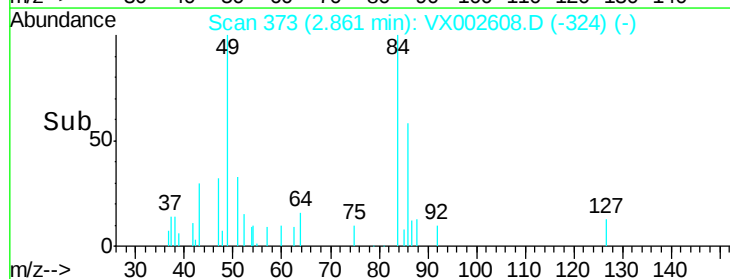
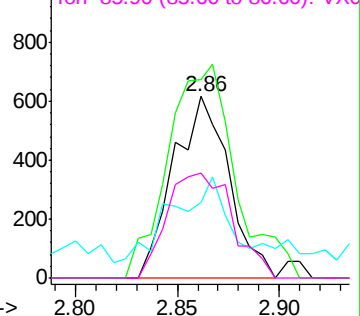
49 109.3 107.8 161.6

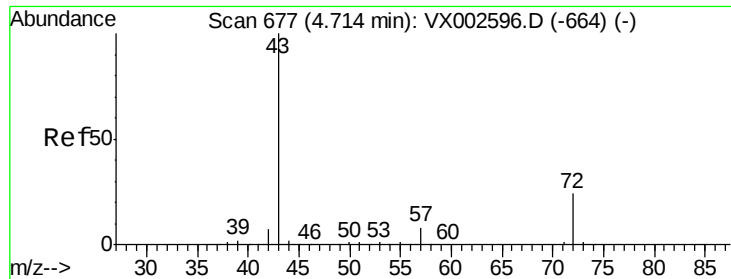
51 31.1 32.8 49.2#

86 58.2 52.5 78.7



Abundance Ion 83.90 (83.60 to 84.60): VX0
Ion 48.90 (48.60 to 49.60): VX0
Ion 50.90 (50.60 to 51.60): VX0
Ion 85.90 (85.60 to 86.60): VX0





#25

2-Butanone

Concen: 0.28 ug/l

RT: 4.72 min Scan# 678

Delta R.T. 0.01 min

Lab File: VX002608.D

Acq: 15 Jun 2018 20:36

Instrument :

MSVOA_X

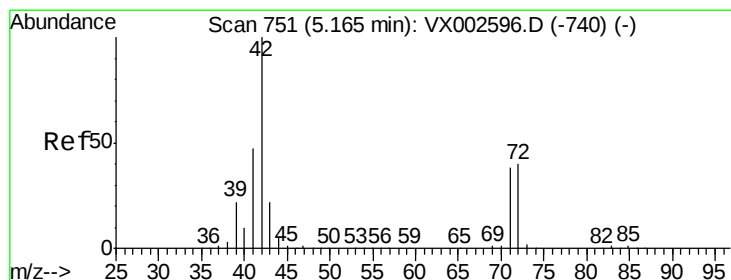
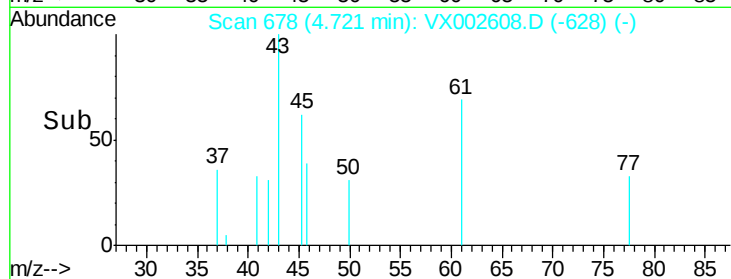
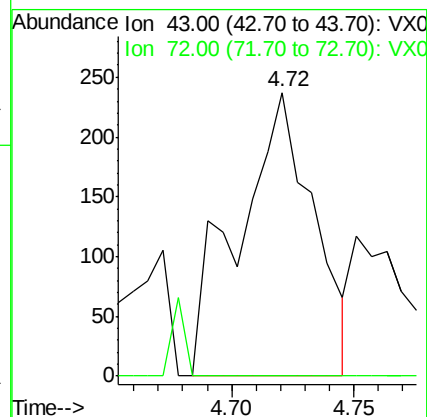
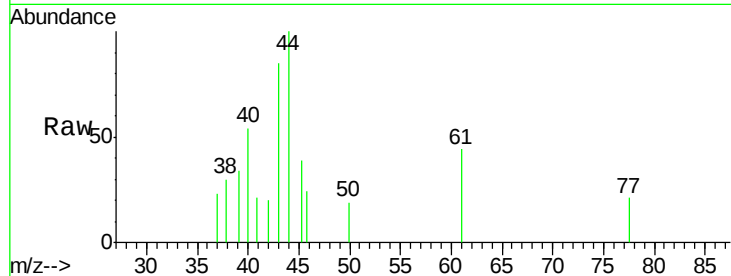
ClientSampled :

Tot Ion: 43 Resp: 509

Ion Ratio Lower Upper

43 100

72 0.0 18.5 27.7#



#29

Tetrahydrofuran

Concen: 0.31 ug/l

RT: 5.18 min Scan# 753

Delta R.T. 0.01 min

Lab File: VX002608.D

Acq: 15 Jun 2018 20:36

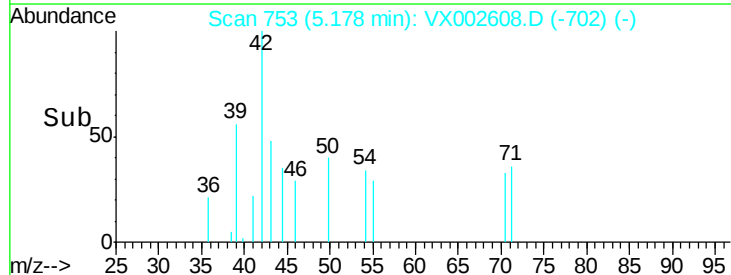
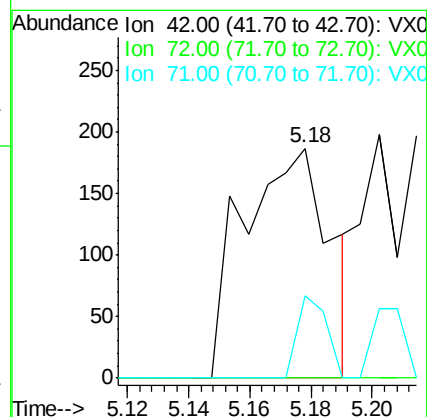
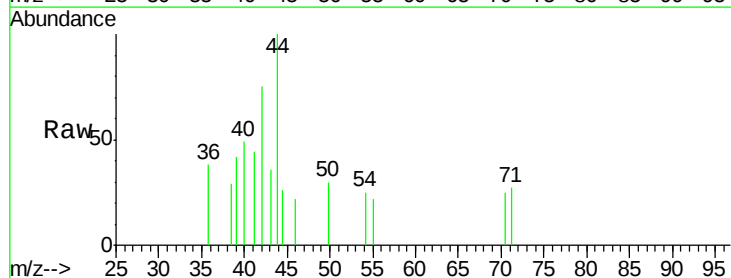
Tgt Ion: 42 Resp: 367

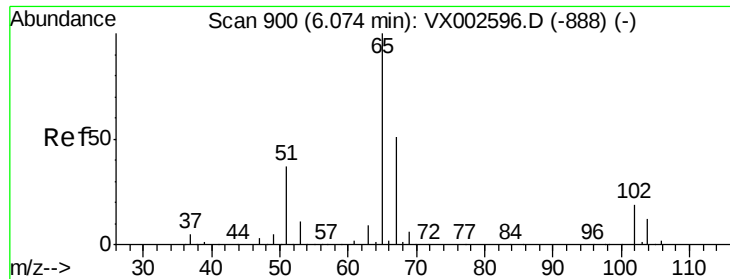
Ion Ratio Lower Upper

42 100

72 0.0 32.0 48.0#

71 12.0 30.1 45.1#

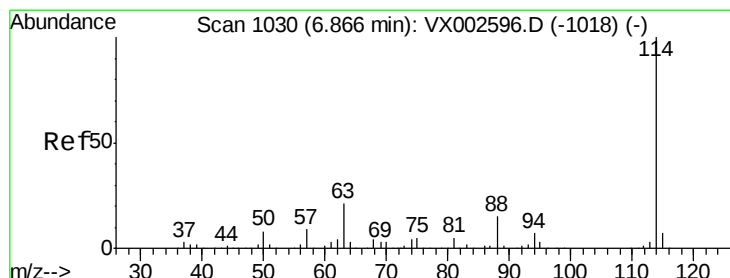
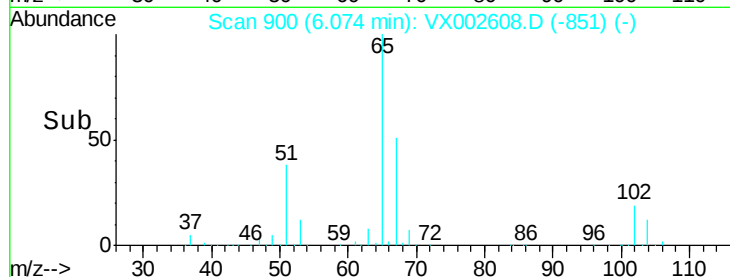
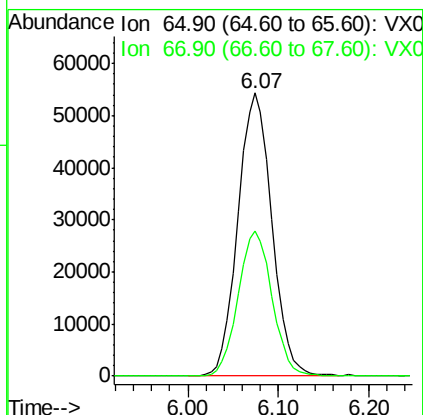
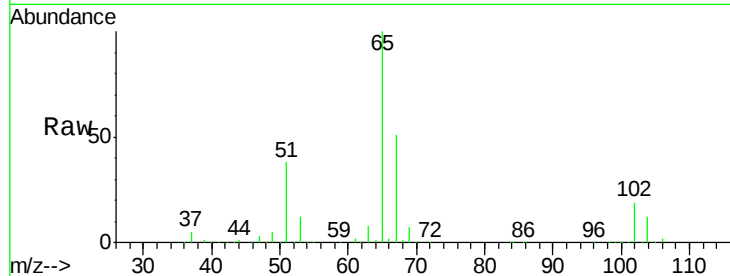




#33
 1,2-Dichloroethane-d4
 Concen: 44.67 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.00 min
 Lab File: VX002608.D
 Acq: 15 Jun 2018 20:36

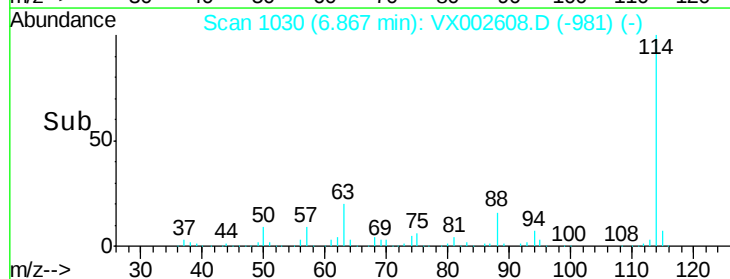
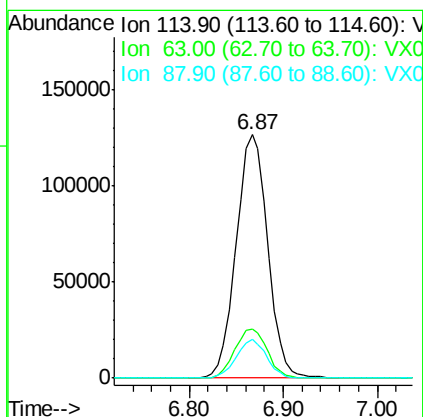
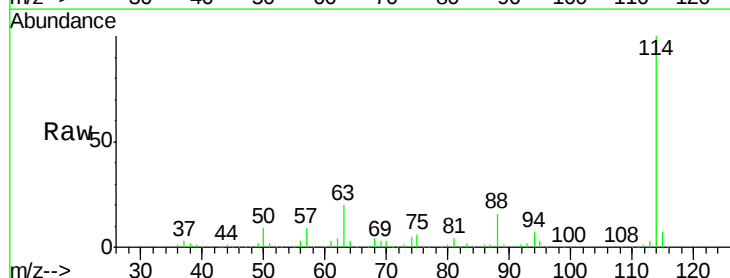
Instrument :
 MSVOA_X
 ClientSampleId :

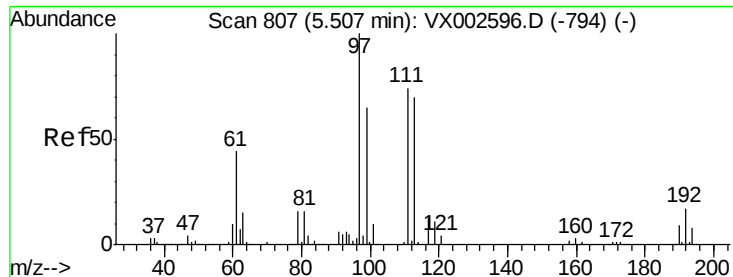
Tot Ion: 65 Resp: 141060
 Ion Ratio Lower Upper
 65 100
 67 51.5 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX002608.D
 Acq: 15 Jun 2018 20:36

Tgt Ion: 114 Resp: 296858
 Ion Ratio Lower Upper
 114 100
 63 20.3 0.0 41.4
 88 15.9 0.0 30.0





#35

Dibromofluoromethane

Concen: 45.05 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX002608.D

Acq: 15 Jun 2018 20:36

Instrument :
MSVOA_X
ClientSampled :

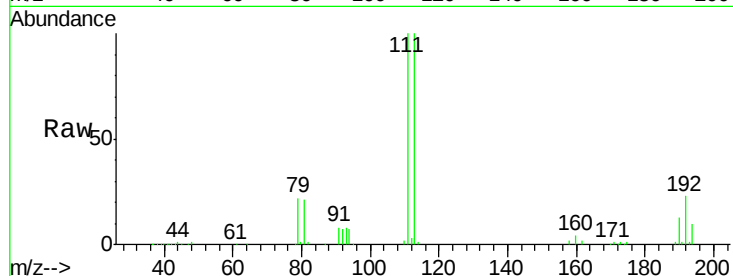
Tot Ion:113 Resp: 106729

Ion Ratio Lower Upper

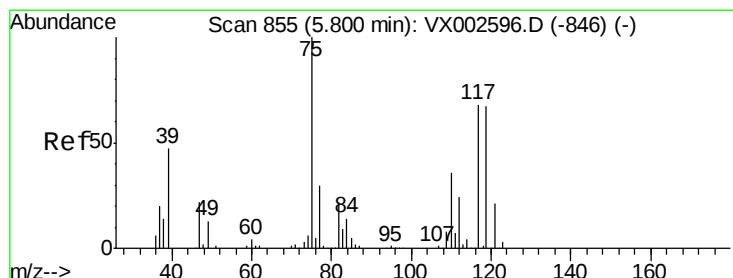
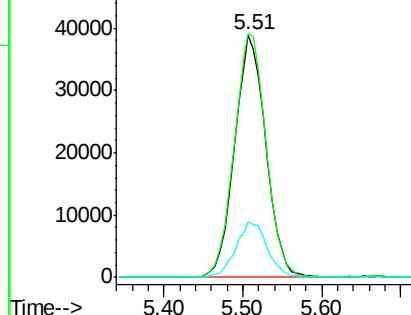
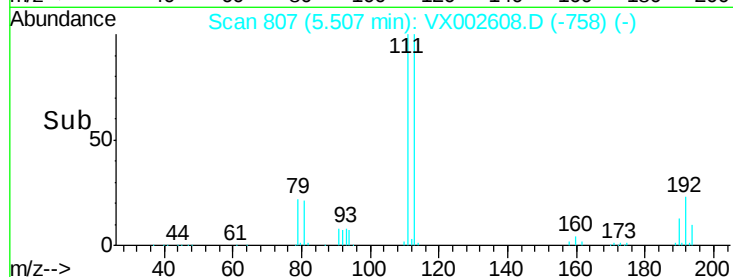
113 100

111 103.0 81.4 122.0

192 23.1 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: 4.55 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.13 min

Lab File: VX002608.D

Acq: 15 Jun 2018 20:36

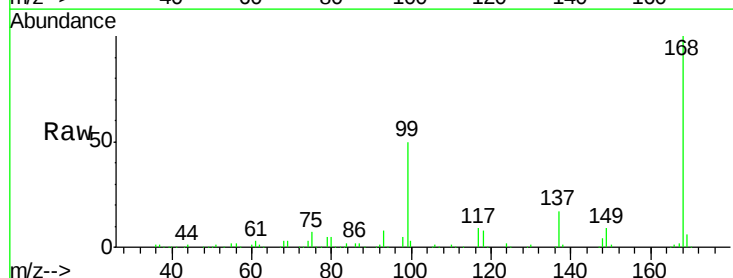
Tgt Ion: 75 Resp: 14350

Ion Ratio Lower Upper

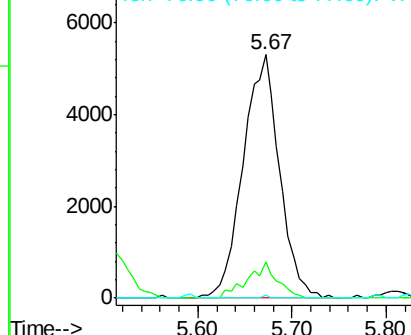
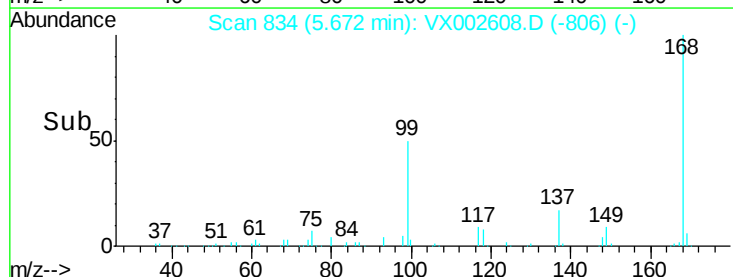
75 100

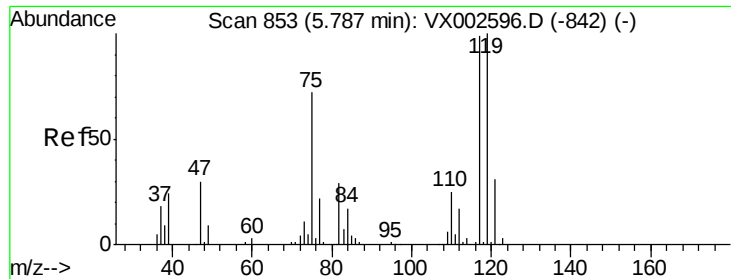
110 12.0 18.1 54.4#

77 0.2 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: 5.98 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX002608.D

Acq: 15 Jun 2018 20:36

Instrument :
MSVOA_X
ClientSampled :

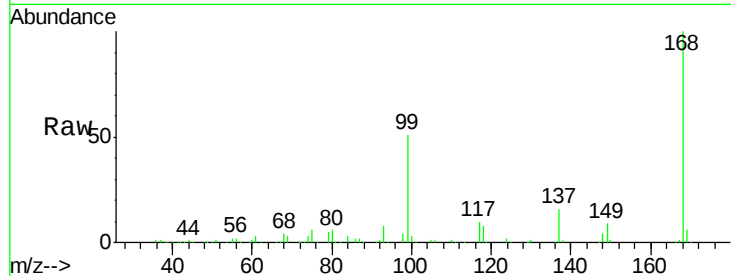
Tot Ion:117 Resp: 18779

Ion Ratio Lower Upper

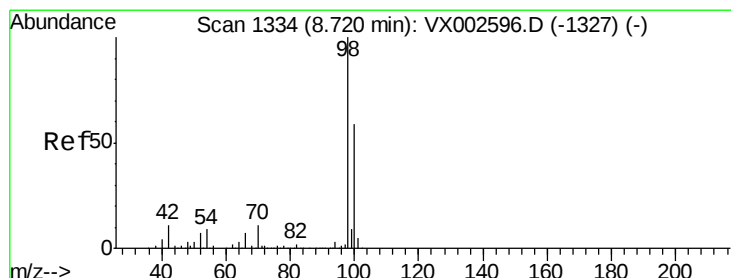
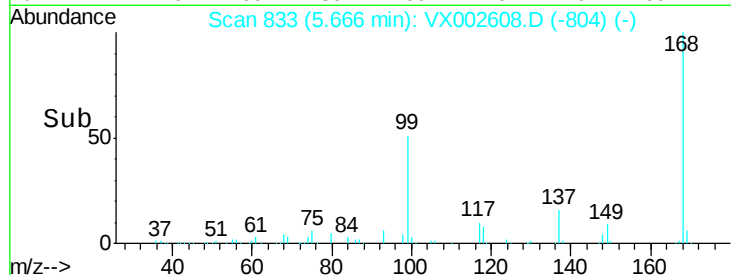
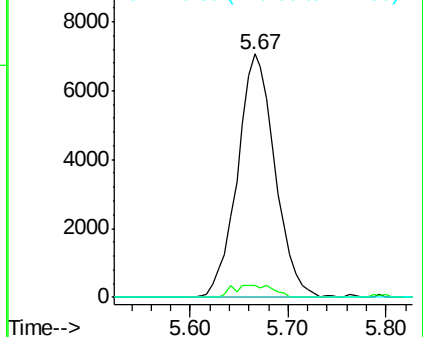
117 100

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



#50

Toluene-d8

Concen: 47.41 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX002608.D

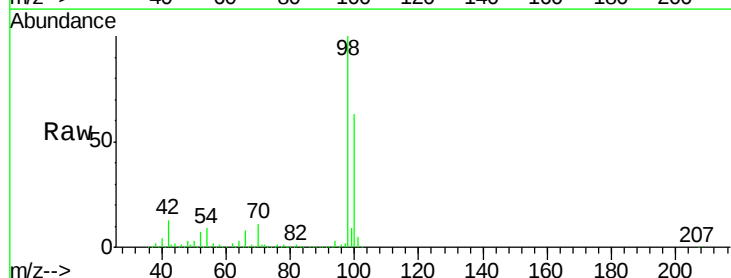
Acq: 15 Jun 2018 20:36

Tgt Ion: 98 Resp: 426516

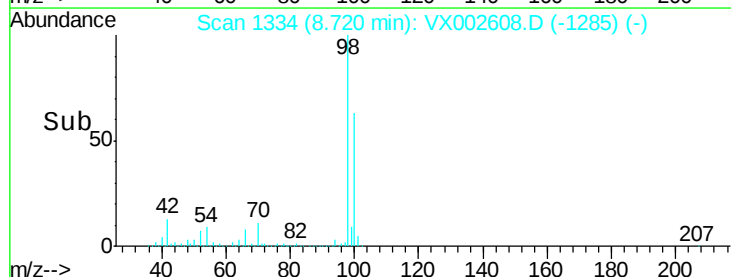
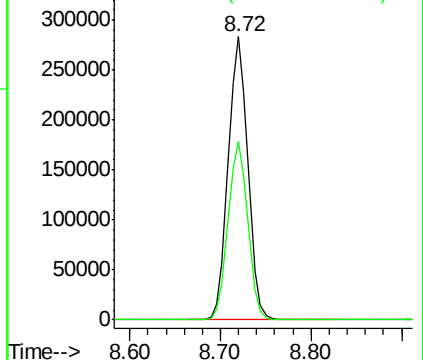
Ion Ratio Lower Upper

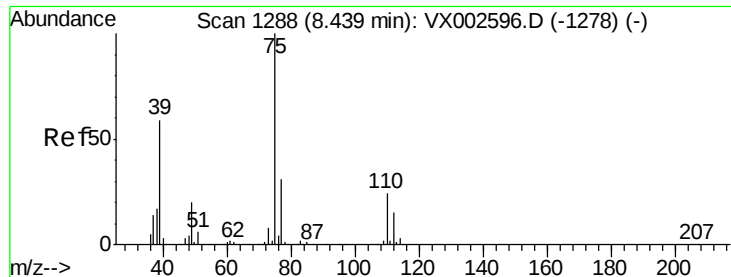
98 100

100 63.1 50.9 76.3



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

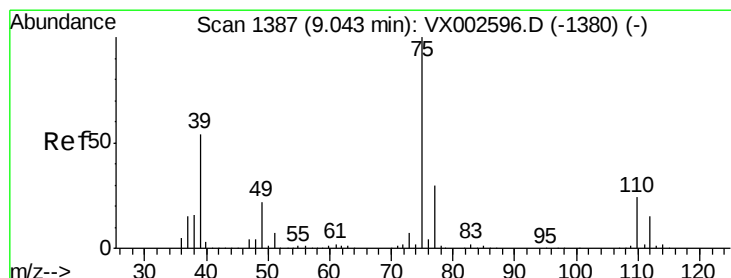
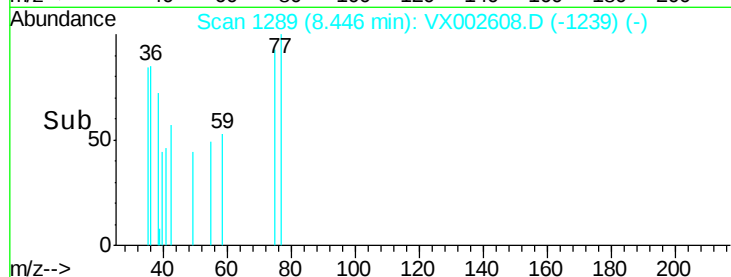
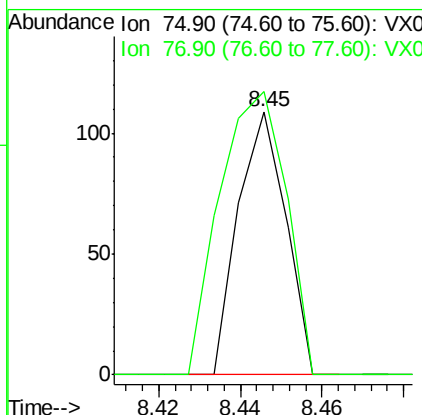
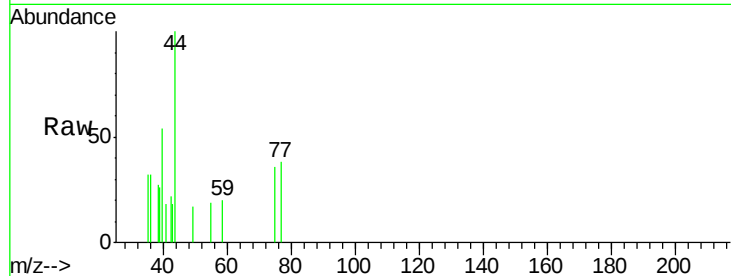




#53
 t-1,3-Dichloropropene
 Concen: 2.42 ug/l
 RT: 8.45 min Scan# 1289
 Delta R.T. 0.01 min
 Lab File: VX002608.D
 Acq: 15 Jun 2018 20:36

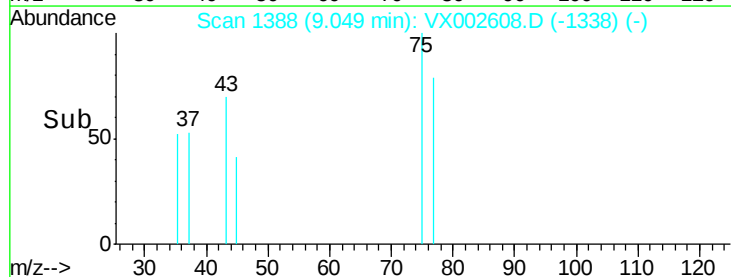
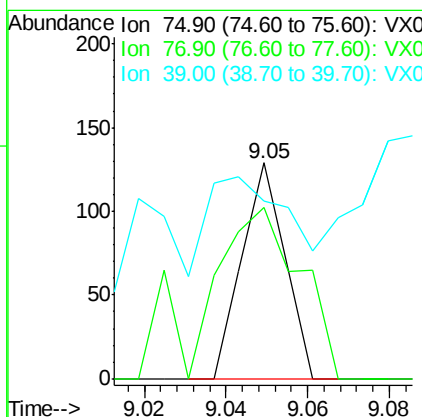
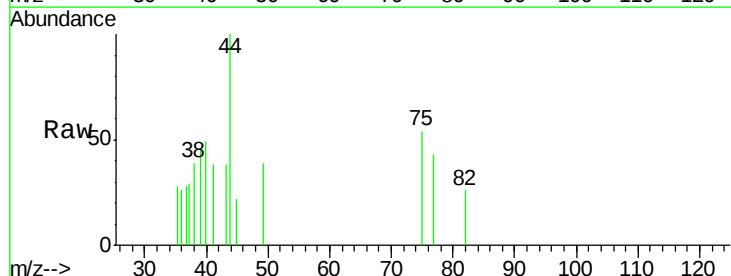
Instrument :
 MSVOA_X
 ClientSampled :

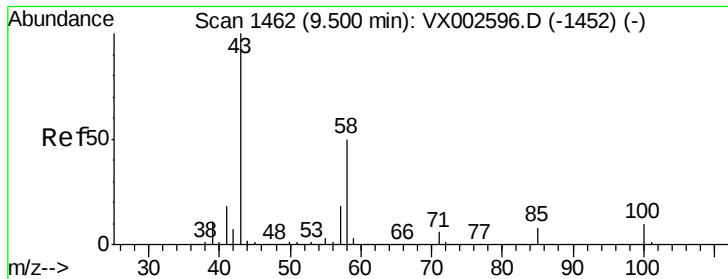
Tot Ion: 75 Resp: 88
 Ion Ratio Lower Upper
 75 100
 77 107.3 25.4 38.2#



#54
 cis-1,3-Dichloropropene
 Concen: 3.24 ug/l
 RT: 9.05 min Scan# 1388
 Delta R.T. 0.01 min
 Lab File: VX002608.D
 Acq: 15 Jun 2018 20:36

Tgt Ion: 75 Resp: 94
 Ion Ratio Lower Upper
 75 100
 77 79.1 24.8 37.2#
 39 34.9 42.4 63.6#

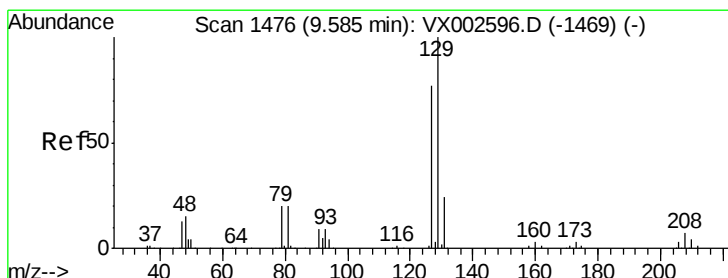
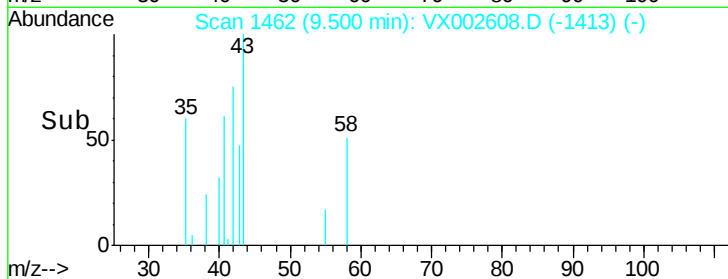
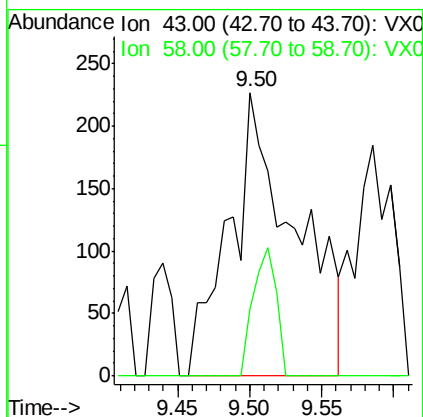
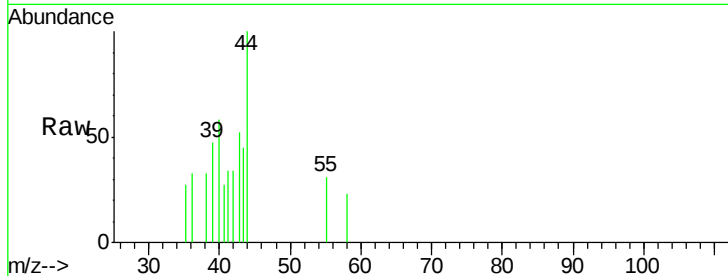




#59
2-Hexanone
Concen: 0.25 ug/l
RT: 9.50 min Scan# 1462
Delta R.T. 0.00 min
Lab File: VX002608.D
Acq: 15 Jun 2018 20:36

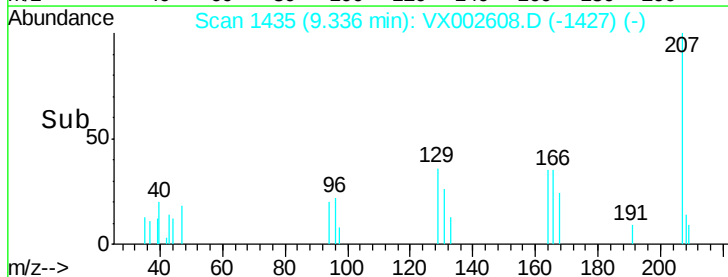
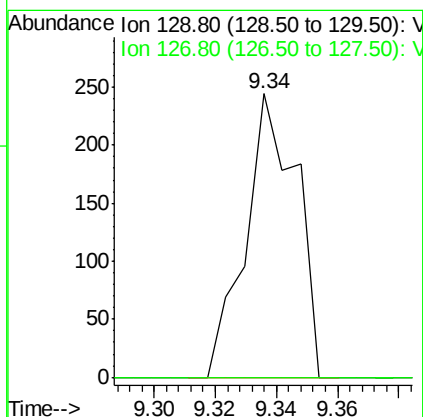
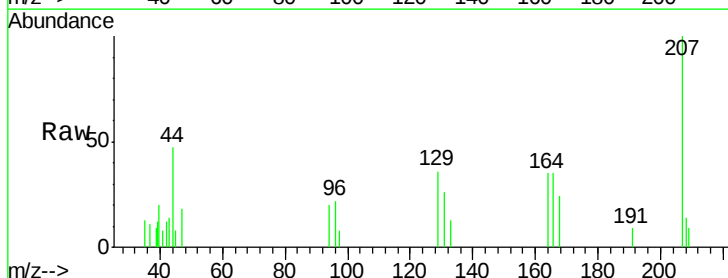
Instrument :
MSVOA_X
ClientSampleId :

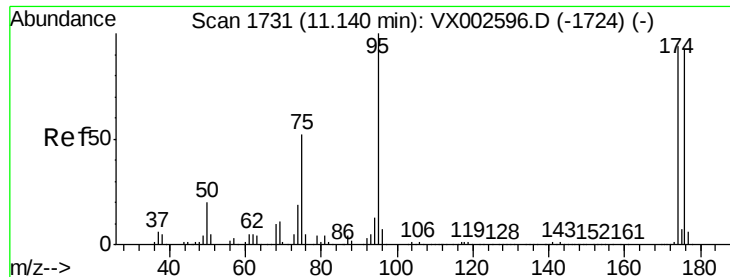
Tot Ion: 43 Resp: 725
Ion Ratio Lower Upper
43 100
58 15.4 24.6 73.6#



#60
Dibromochloromethane
Concen: 3.86 ug/l
RT: 9.34 min Scan# 1435
Delta R.T. -0.25 min
Lab File: VX002608.D
Acq: 15 Jun 2018 20:36

Tgt Ion: 129 Resp: 282
Ion Ratio Lower Upper
129 100
127 0.0 38.5 115.3#





#62

4-Bromofluorobenzene

Concen: 44.36 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX002608.D

Acq: 15 Jun 2018 20:36

Instrument :

MSVOA_X

ClientSampleId :

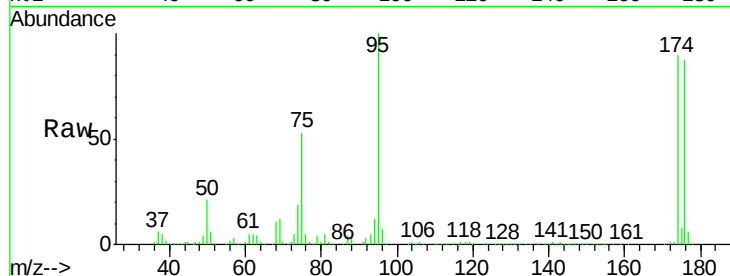
Tot Ion: 95 Resp: 151213

Ion Ratio Lower Upper

95 100

174 94.9 0.0 187.4

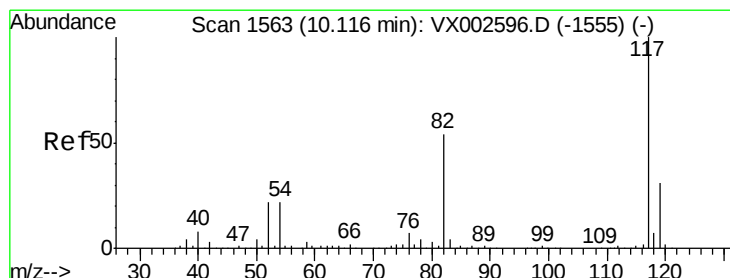
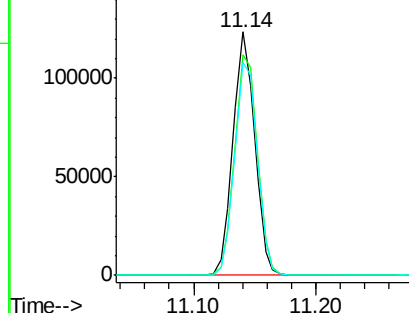
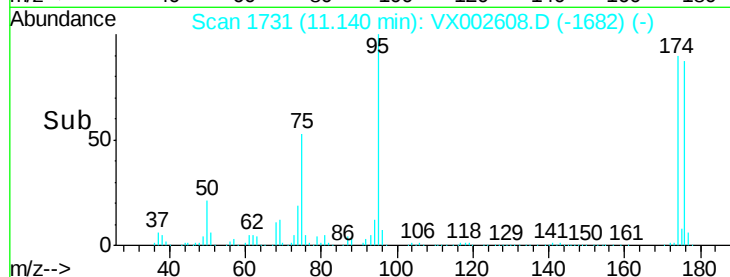
176 91.3 0.0 181.0



Abundance Ion 94.90 (94.60 to 95.60): VX002608.D (-1682) (-)

Ion 173.80 (173.50 to 174.50): VX002608.D (-1682) (-)

Ion 175.80 (175.50 to 176.50): VX002608.D (-1682) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VX002608.D

Acq: 15 Jun 2018 20:36

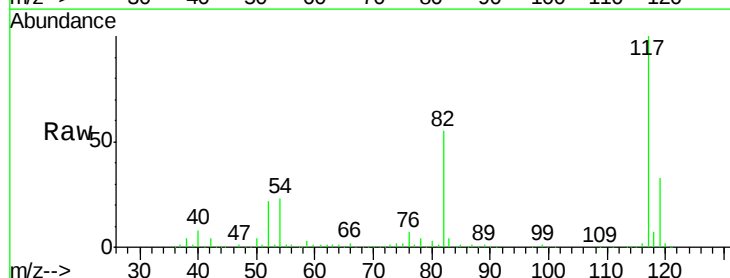
Tgt Ion: 117 Resp: 277540

Ion Ratio Lower Upper

117 100

82 55.0 45.0 67.4

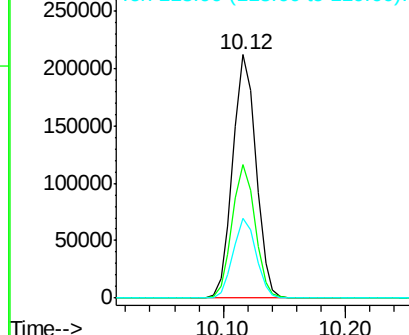
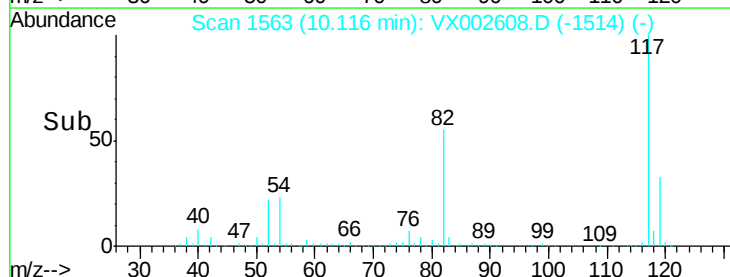
119 33.0 25.8 38.6

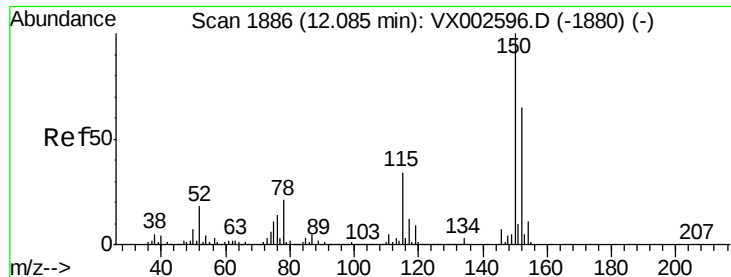


Abundance Ion 116.90 (116.60 to 117.60): VX002608.D (-1514) (-)

Ion 82.00 (81.70 to 82.70): VX002608.D (-1514) (-)

Ion 118.90 (118.60 to 119.60): VX002608.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: VX002608.D

Acq: 15 Jun 2018 20:36

Instrument :

MSVOA_X

ClientSampleId :

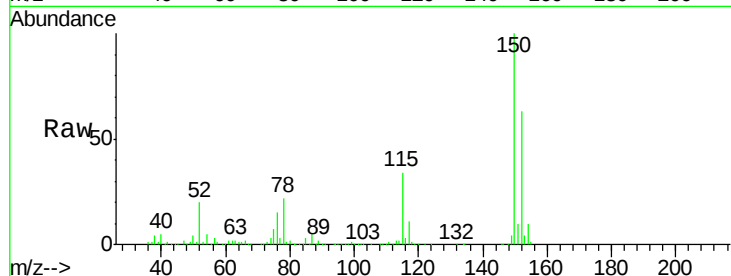
Tot Ion:152 Resp: 157725

Ion Ratio Lower Upper

152 100

115 54.2 40.1 120.2

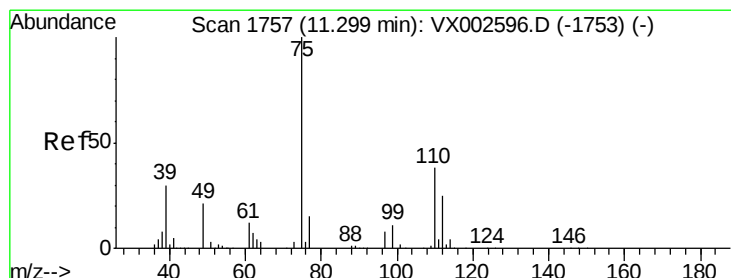
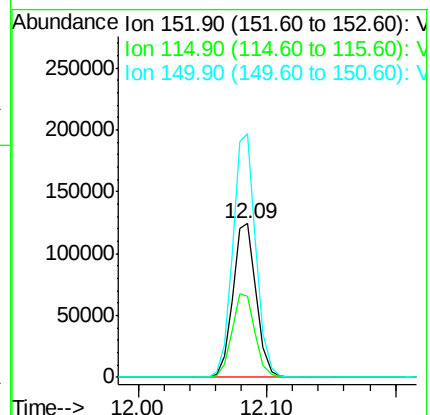
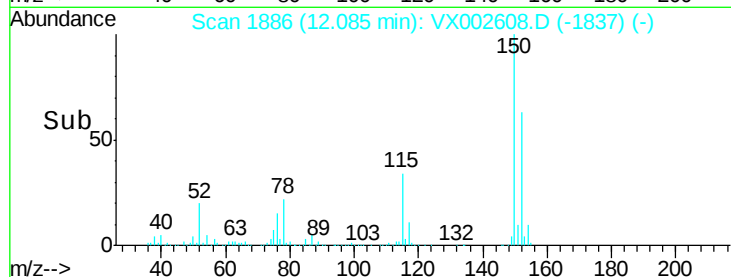
150 156.2 0.0 347.2



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: 26.97 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002608.D

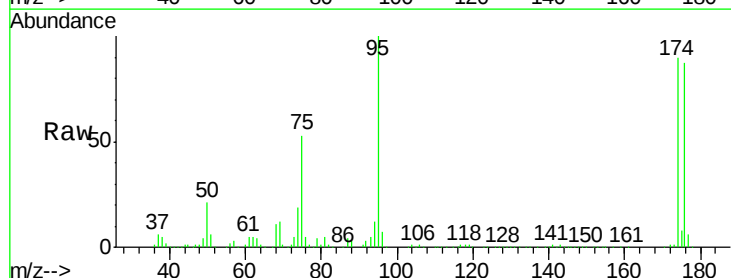
Acq: 15 Jun 2018 20:36

Tgt Ion: 75 Resp: 80260

Ion Ratio Lower Upper

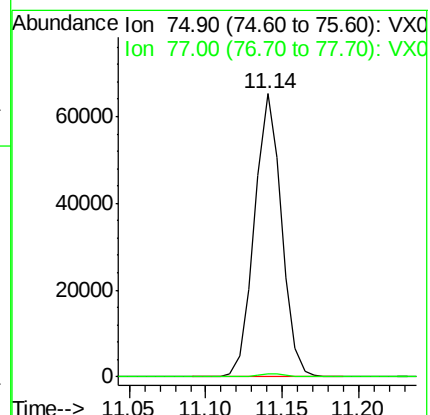
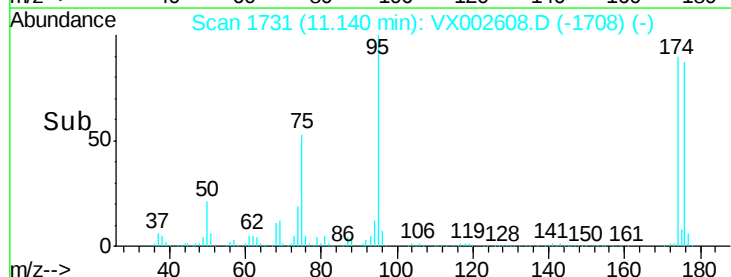
75 100

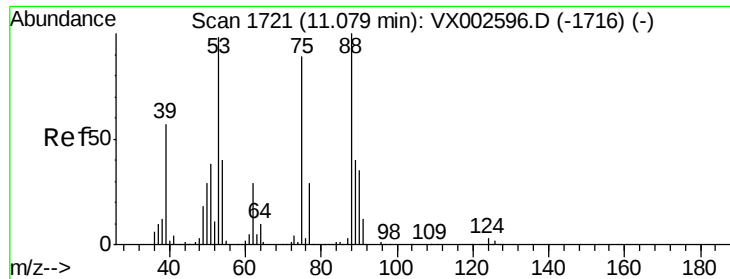
77 1.3 22.8 68.3#



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: 83.25 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002608.D

Acq: 15 Jun 2018 20:36

Instrument :

MSVOA_X

ClientSampled :

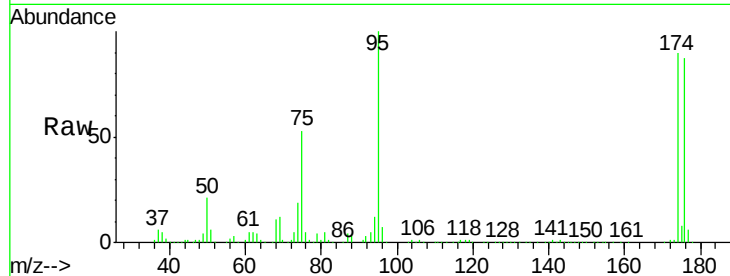
Tot Ion: 75 Resp: 80260

Ion Ratio Lower Upper

75 100

53 0.1 86.8 130.2#

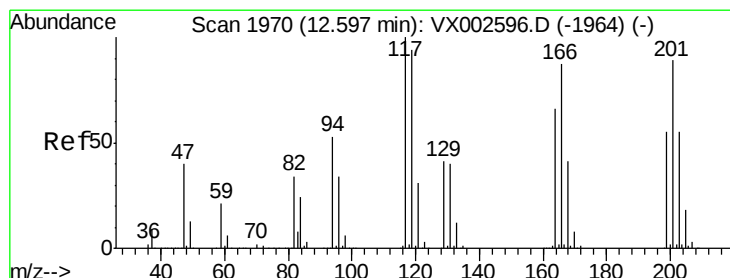
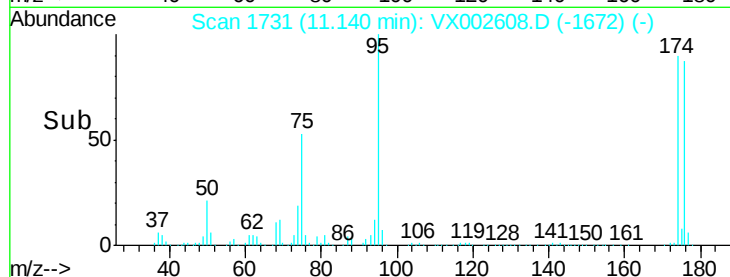
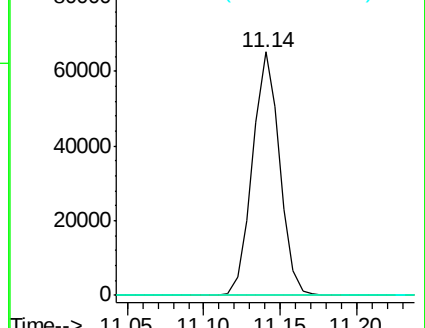
89 0.0 38.2 57.2#



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: 12.59 min Scan# 1969

Delta R.T. -0.01 min

Lab File: VX002608.D

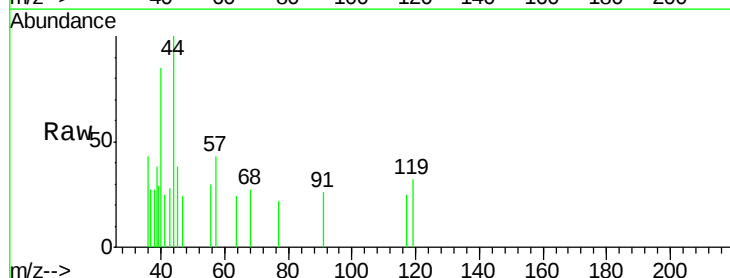
Acq: 15 Jun 2018 20:36

Tgt Ion: 117 Resp: 22

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

