

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061918\
 Data File : VX002721.D
 Acq On : 19 Jun 2018 18:58
 Operator : JC/MD
 Sample : J3467-13
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 20 01:04:06 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061518W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 16 01:37:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	210691	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	301222	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	281601	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	162817	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	144114	45.01	ug/l	0.00
Spiked Amount 50.000			Recovery	=	90.02%	
35) Dibromofluoromethane	5.51	113	112471	46.78	ug/l	0.00
Spiked Amount 50.000			Recovery	=	93.56%	
50) Toluene-d8	8.72	98	429171	47.02	ug/l	0.00
Spiked Amount 50.000			Recovery	=	94.04%	
62) 4-Bromofluorobenzene	11.14	95	148964	43.07	ug/l	0.00
Spiked Amount 50.000			Recovery	=	86.14%	

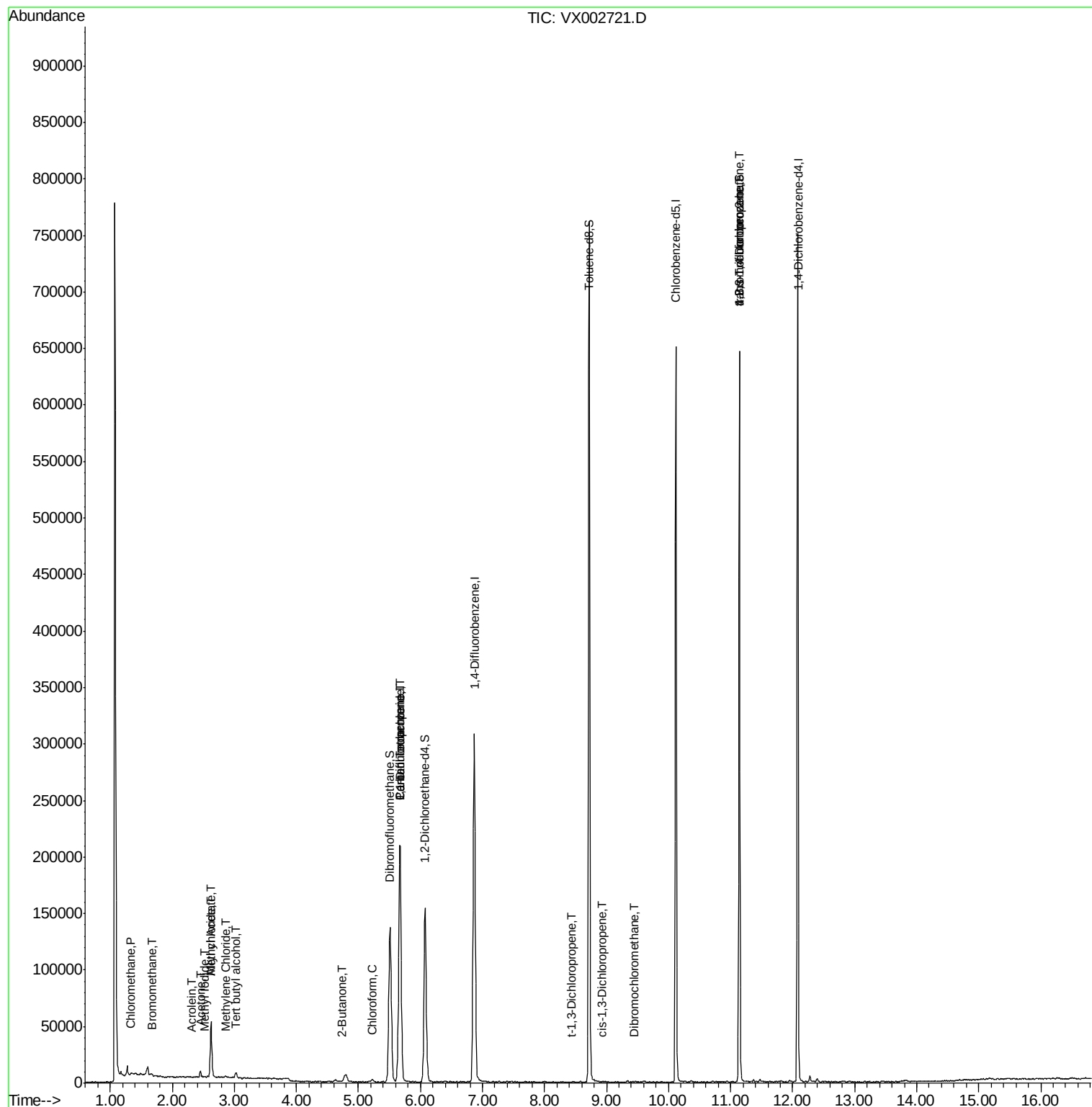
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	695	0.26	ug/l #	80
5) Bromomethane	1.67	94	1297	0.78	ug/l	95
10) Methyl Iodide	2.51	142	1158	5.49	ug/l	98
11) Tert butyl alcohol	3.03	59	3038	4.59	ug/l #	76
13) Acrolein	2.30	56	181	7.43	ug/l #	36
14) Allyl chloride	2.62	41	5082	1.09	ug/l #	63
16) Acetone	2.45	43	6167	4.37	ug/l	99
18) Methyl Acetate	2.62	43	14381	3.82	ug/l #	56
20) Methylene Chloride	2.86	84	720	0.25	ug/l #	72
25) 2-Butanone	4.73	43	519	0.28	ug/l #	74
30) Chloroform	5.22	83	1855	0.42	ug/l	88
36) 1,1-Dichloropropene	5.67	75	15081	4.71	ug/l #	51
38) Carbon Tetrachloride	5.67	117	19728	6.19	ug/l #	15
53) t-1,3-Dichloropropene	8.44	75	43	2.40	ug/l #	43
54) cis-1,3-Dichloropropene	8.93	75	24	3.22	ug/l #	1
60) Dibromochloromethane	9.45	129	20	3.77	ug/l #	11
76) 1,2,3-Trichloropropane	11.14	75	80157	26.09	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	80157	80.68	ug/l #	6

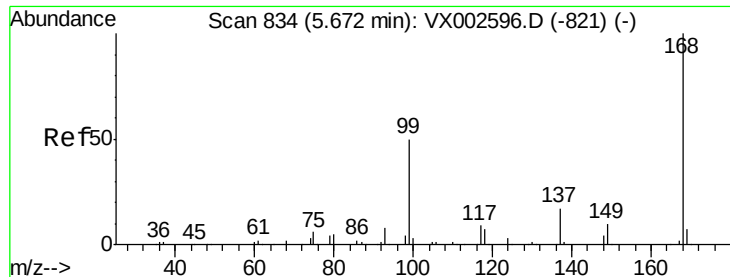
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX002721.D

Acq: 19 Jun 2018 18:58

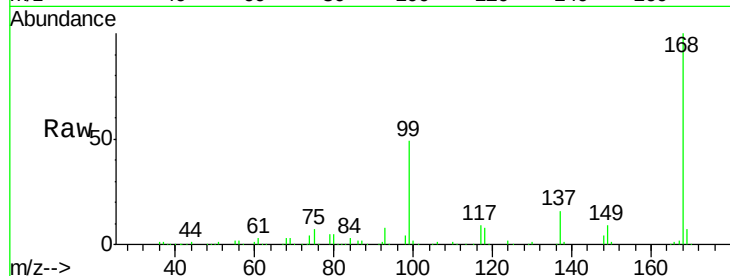
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 210691

Ion Ratio Lower Upper

168 100

99 49.4 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

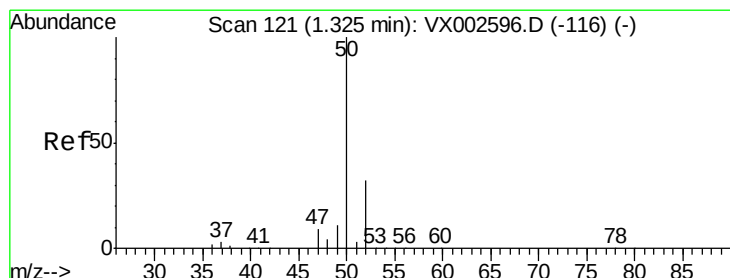
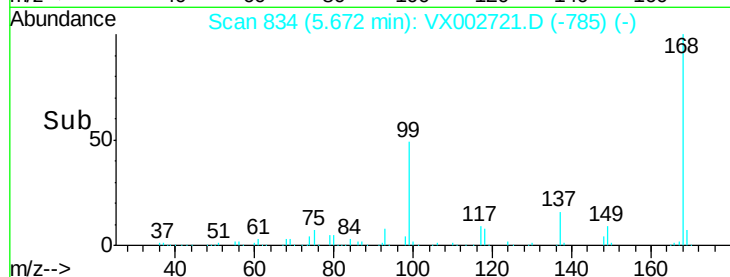
40000

20000

0

Time-->

5.60 5.70 5.80



#3

Chloromethane

Concen: 0.26 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX002721.D

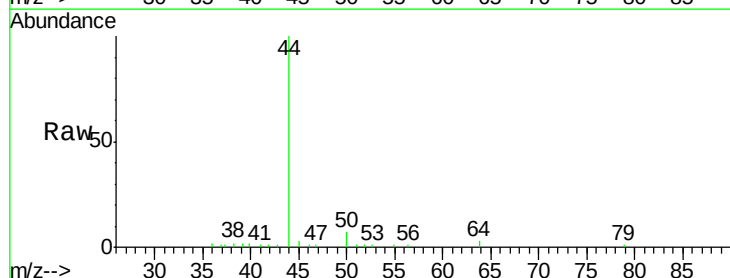
Acq: 19 Jun 2018 18:58

Tgt Ion: 50 Resp: 695

Ion Ratio Lower Upper

50 100

52 20.7 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

400

300

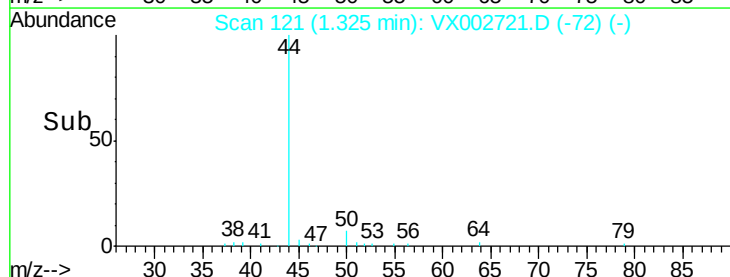
200

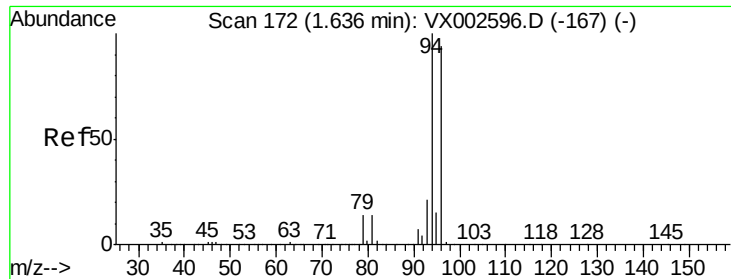
100

0

Time-->

1.30 1.35 1.40





#5

Bromomethane

Concen: 0.78 ug/l

RT: 1.67 min Scan# 177

Delta R.T. 0.03 min

Lab File: VX002721.D

Acq: 19 Jun 2018 18:58

Instrument :

MSVOA_X

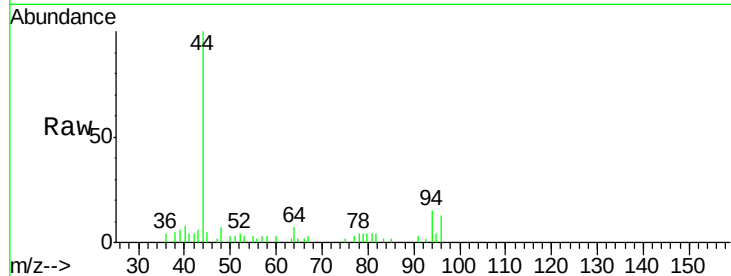
ClientSampled :

Tot Ion: 94 Resp: 1297

Ion Ratio Lower Upper

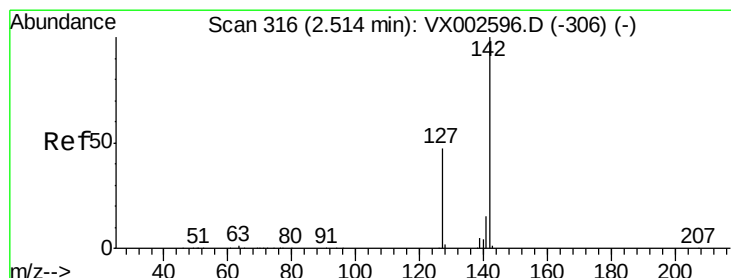
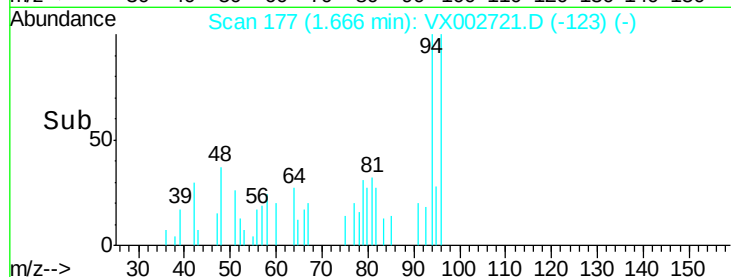
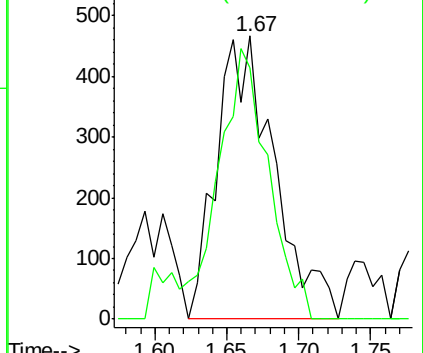
94 100

96 88.9 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: 5.49 ug/l

RT: 2.51 min Scan# 316

Delta R.T. 0.00 min

Lab File: VX002721.D

Acq: 19 Jun 2018 18:58

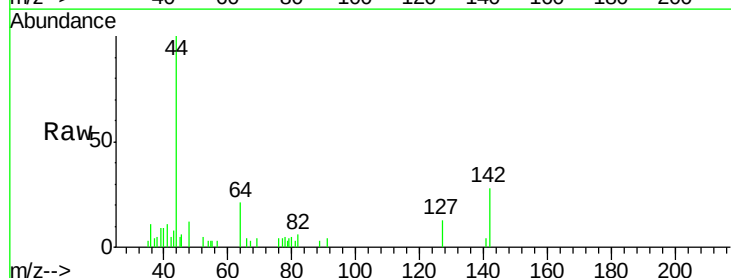
Tgt Ion: 142 Resp: 1158

Ion Ratio Lower Upper

142 100

127 47.2 36.6 55.0

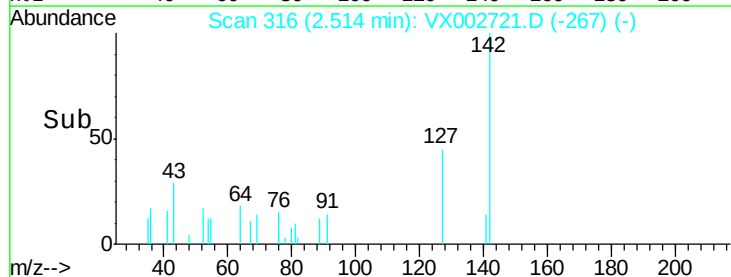
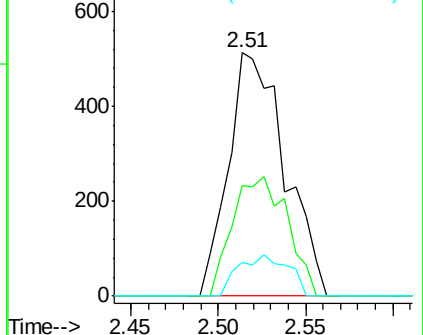
141 14.9 11.3 16.9

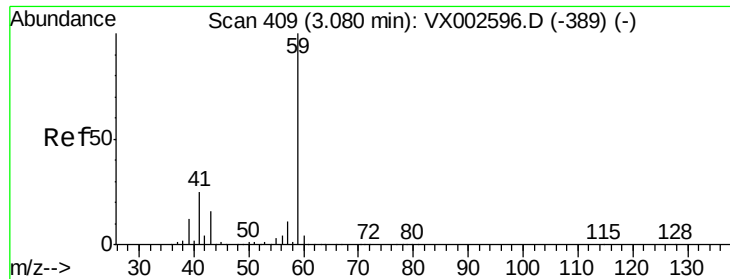


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

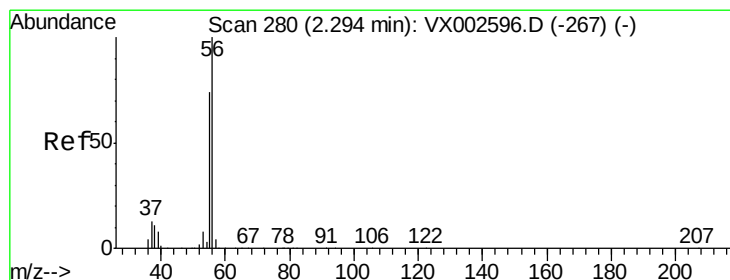
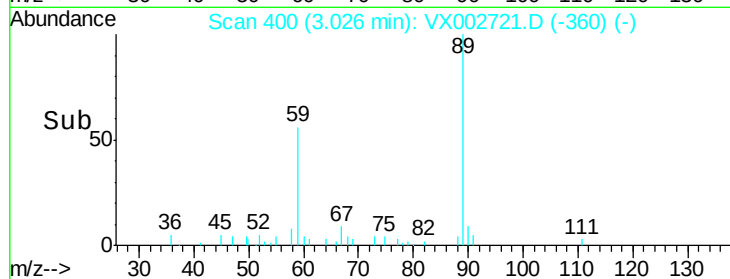
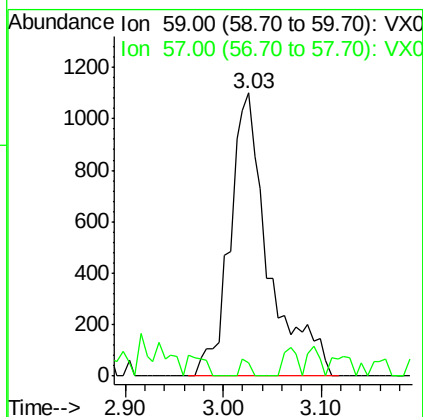
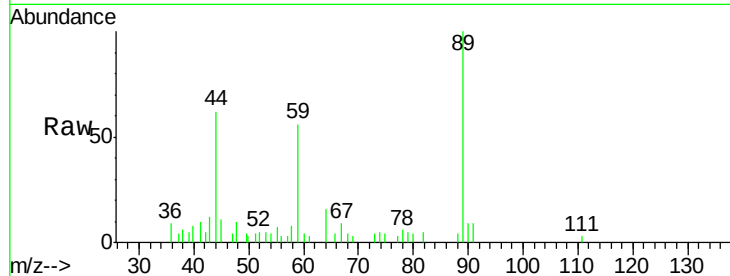




#11
Tert butyl alcohol
Concen: 4.59 ug/l
RT: 3.03 min Scan# 400
Delta R.T. -0.05 min
Lab File: VX002721.D
Acq: 19 Jun 2018 18:58

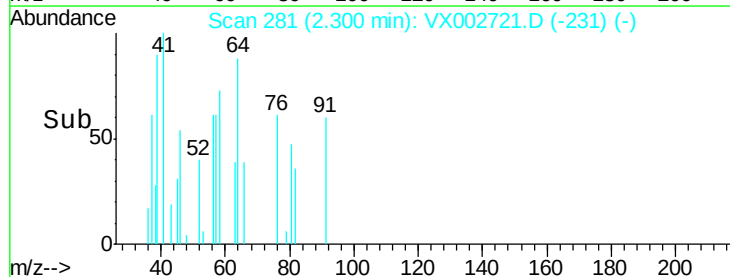
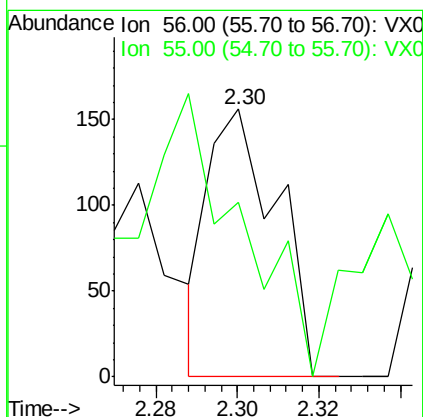
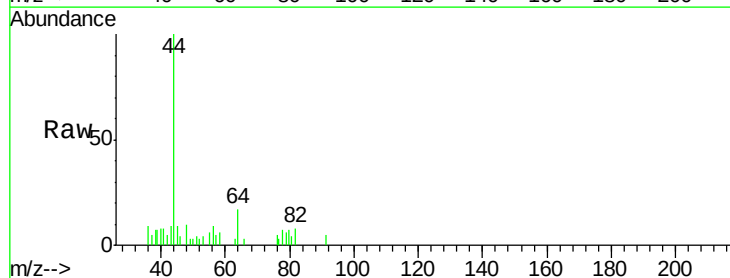
Instrument :
MSVOA_X
ClientSampled :

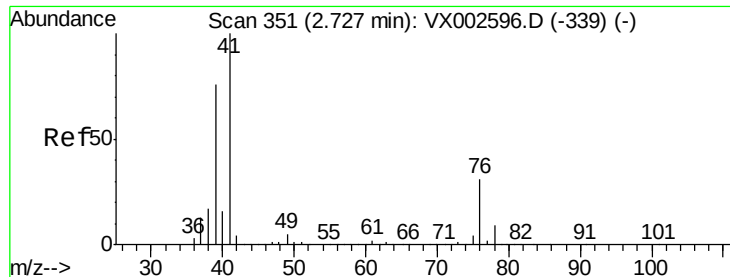
Tot Ion: 59 Resp: 3038
Ion Ratio Lower Upper
59 100
57 1.4 8.2 12.2#



#13
Acrolein
Concen: 7.43 ug/l
RT: 2.30 min Scan# 281
Delta R.T. 0.01 min
Lab File: VX002721.D
Acq: 19 Jun 2018 18:58

Tgt Ion: 56 Resp: 181
Ion Ratio Lower Upper
56 100
55 124.3 57.0 85.4#

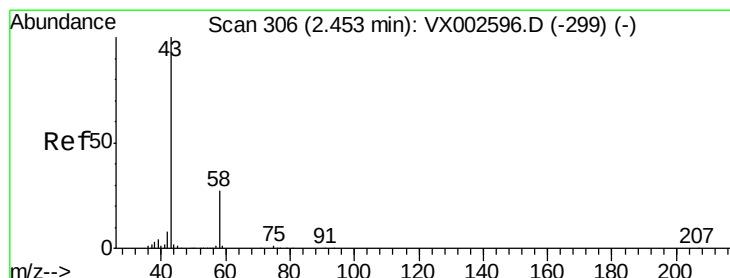
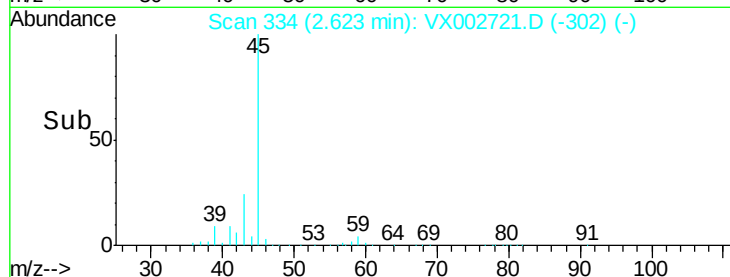
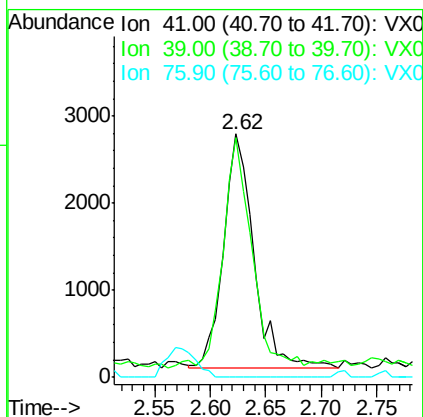
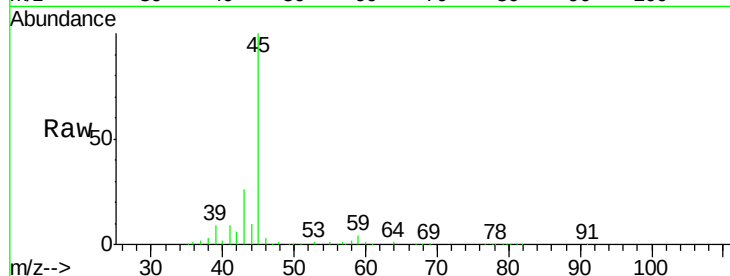




#14
Allvl chloride
Concen: 1.09 ug/l
RT: 2.62 min Scan# 334
Delta R.T. -0.10 min
Lab File: VX002721.D
Acq: 19 Jun 2018 18:58

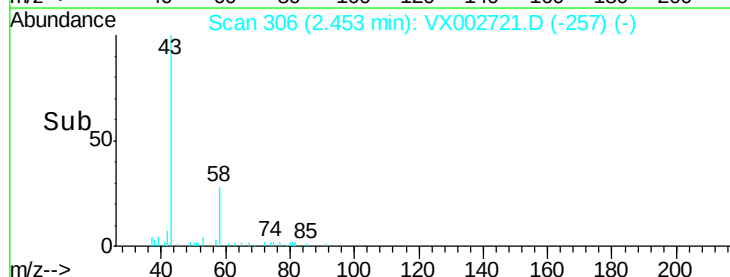
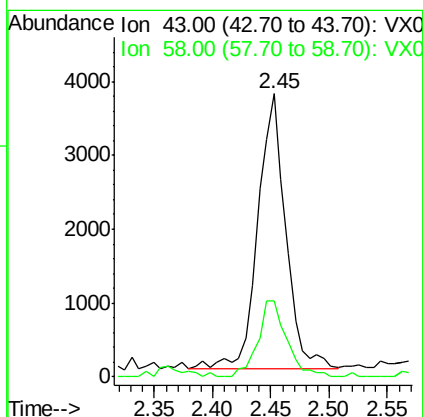
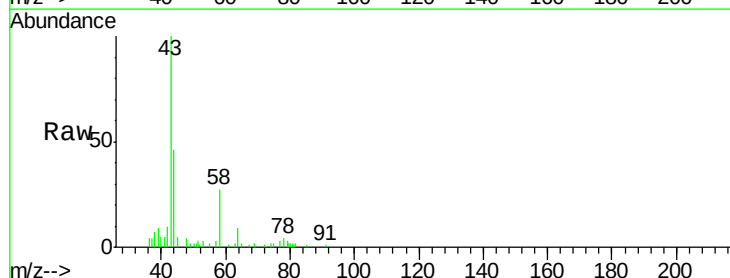
Instrument :
MSVOA_X
ClientSampleId :

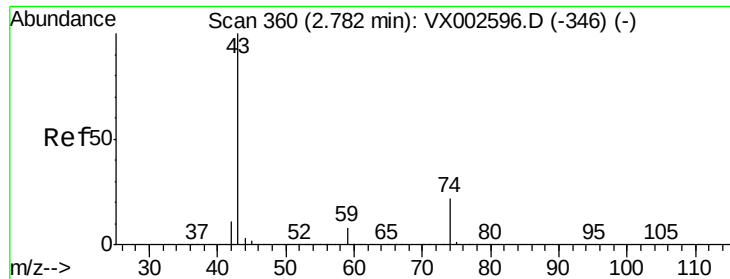
Tot Ion: 41 Resp: 5082
Ion Ratio Lower Upper
41 100
39 94.8 56.8 85.2#
76 0.0 23.8 35.8#



#16
Acetone
Concen: 4.37 ug/l
RT: 2.45 min Scan# 306
Delta R.T. 0.00 min
Lab File: VX002721.D
Acq: 19 Jun 2018 18:58

Tgt Ion: 43 Resp: 6167
Ion Ratio Lower Upper
43 100
58 27.9 22.1 33.1





#18

Methyl Acetate

Concen: 3.82 ug/l

RT: 2.62 min Scan# 334

Delta R.T. -0.16 min

Lab File: VX002721.D

Acq: 19 Jun 2018 18:58

Instrument :

MSVOA_X

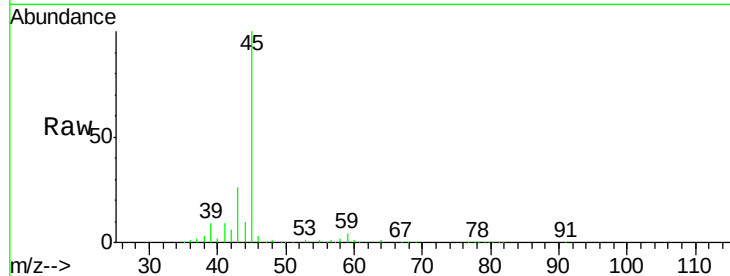
ClientSampleId :

Tot Ion: 43 Resp: 14381

Ion Ratio Lower Upper

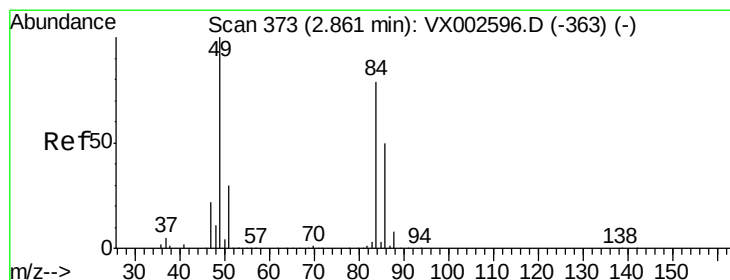
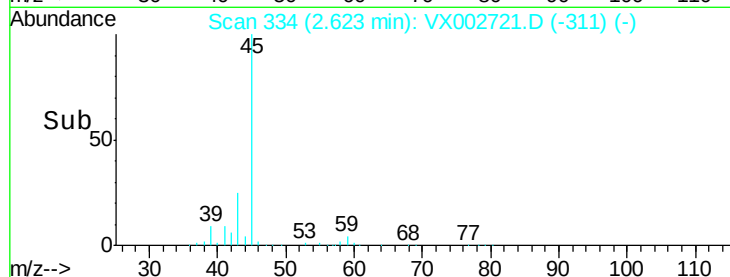
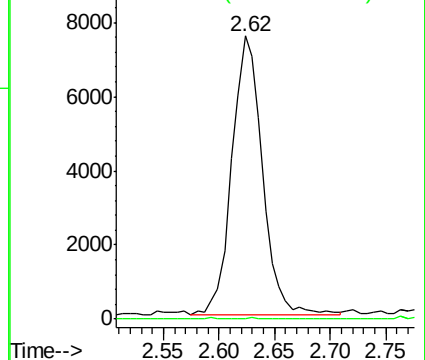
43 100

74 0.1 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: 0.25 ug/l

RT: 2.86 min Scan# 373

Delta R.T. 0.00 min

Lab File: VX002721.D

Acq: 19 Jun 2018 18:58

Tgt Ion: 84 Resp: 720

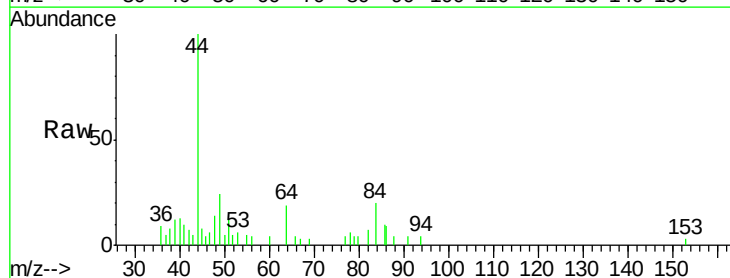
Ion Ratio Lower Upper

84 100

49 105.3 107.8 161.6#

51 27.2 32.8 49.2#

86 97.3 52.5 78.7#

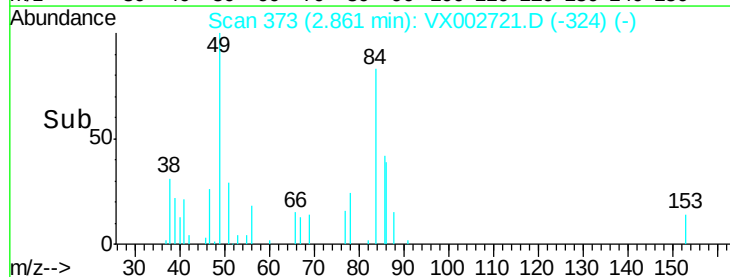
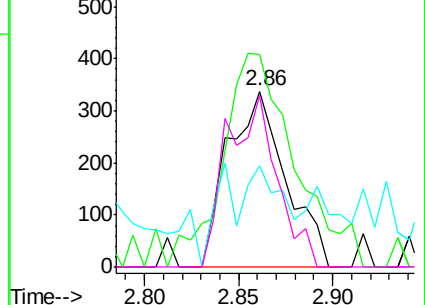


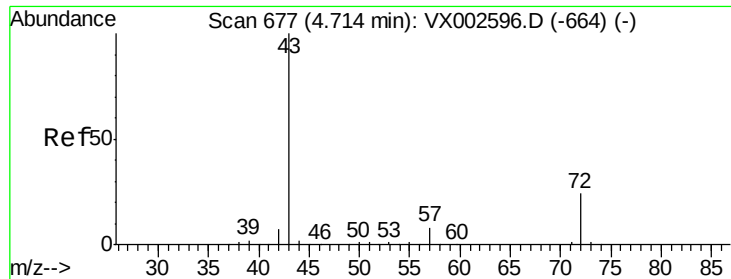
Abundance Ion 83.90 (83.60 to 84.60): VX0

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: 4.73 min Scan# 679

Delta R.T. 0.01 min

Lab File: VX002721.D

Acq: 19 Jun 2018 18:58

Instrument :

MSVOA_X

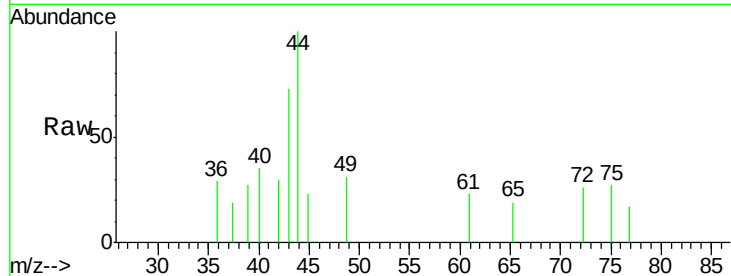
ClientSampled :

Tot Ion: 43 Resp: 519

Ion Ratio Lower Upper

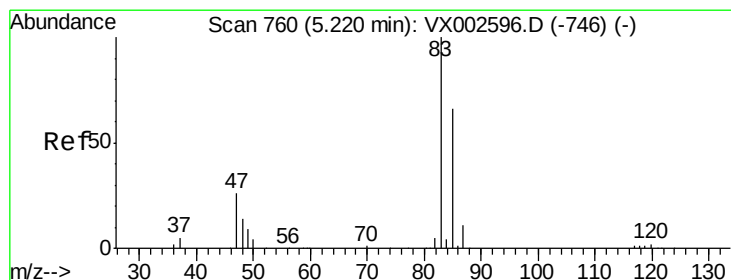
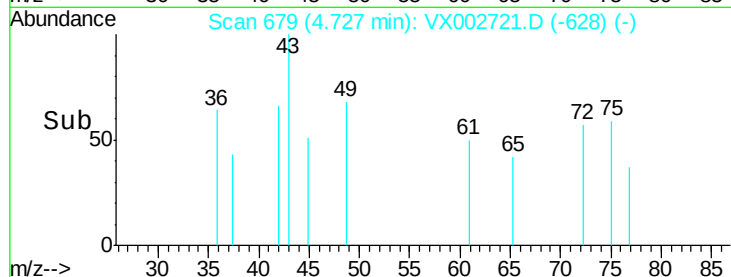
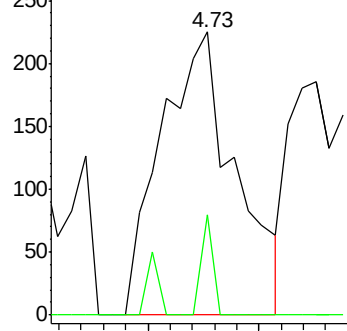
43 100

72 35.6 18.5 27.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#30

Chloroform

Concen: 0.42 ug/l

RT: 5.22 min Scan# 760

Delta R.T. 0.00 min

Lab File: VX002721.D

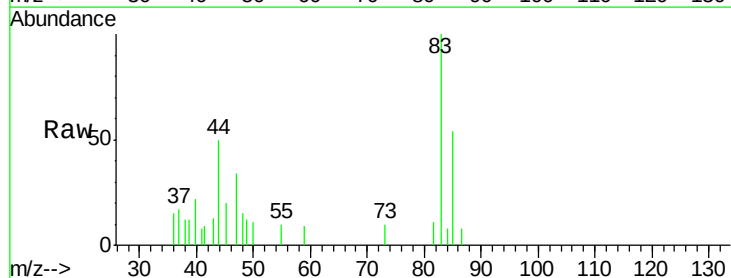
Acq: 19 Jun 2018 18:58

Tgt Ion: 83 Resp: 1855

Ion Ratio Lower Upper

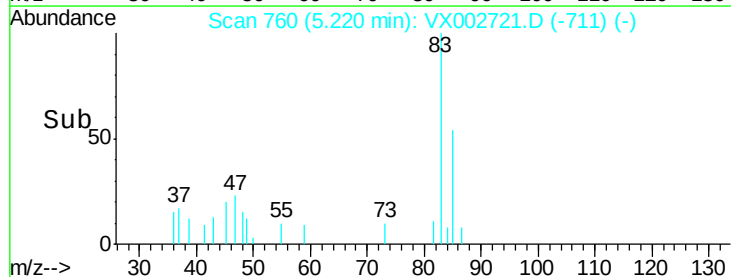
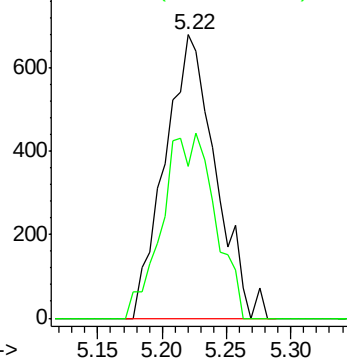
83 100

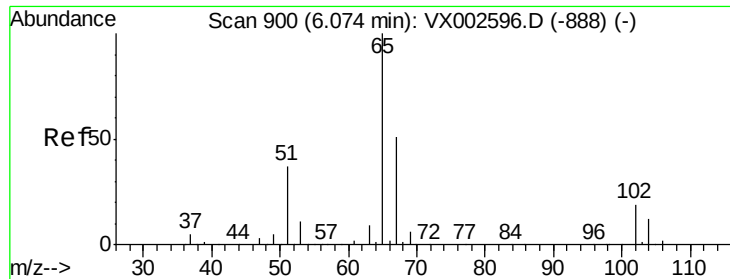
85 53.8 50.4 75.6



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

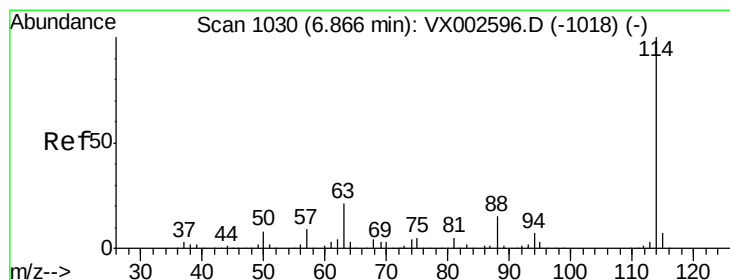
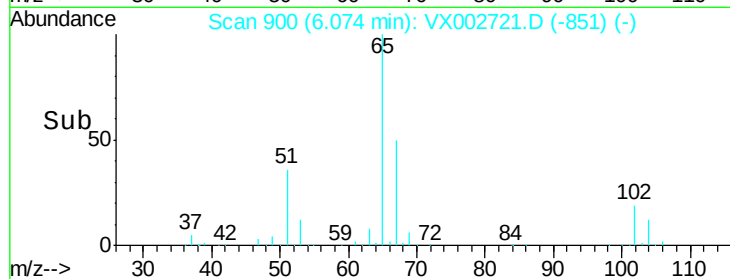
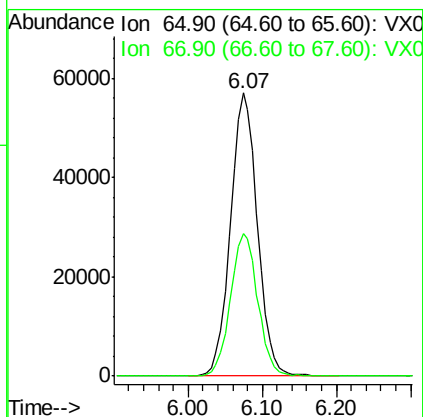
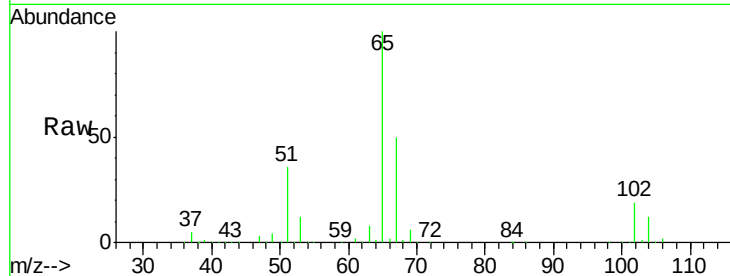




#33
 1,2-Dichloroethane-d4
 Concen: 45.01 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.00 min
 Lab File: VX002721.D
 Acq: 19 Jun 2018 18:58

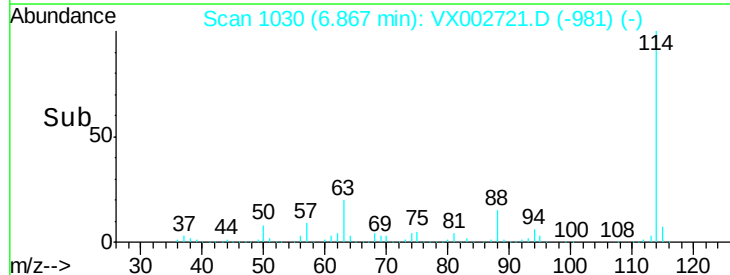
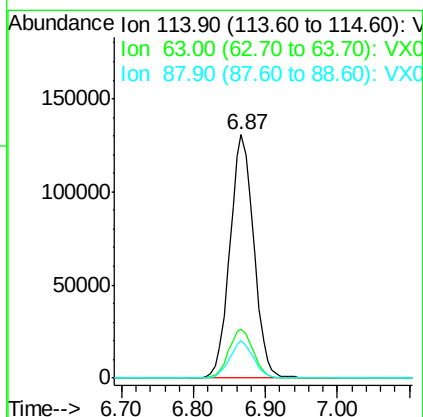
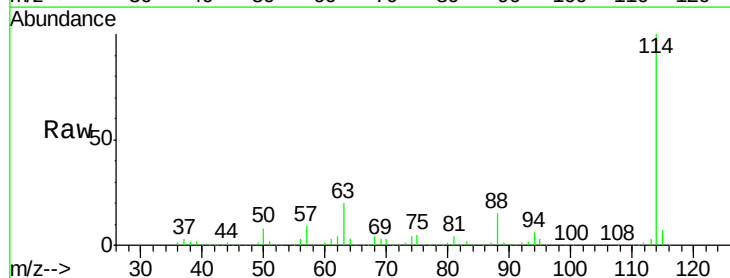
Instrument :
 MSVOA_X
 ClientSampleId :

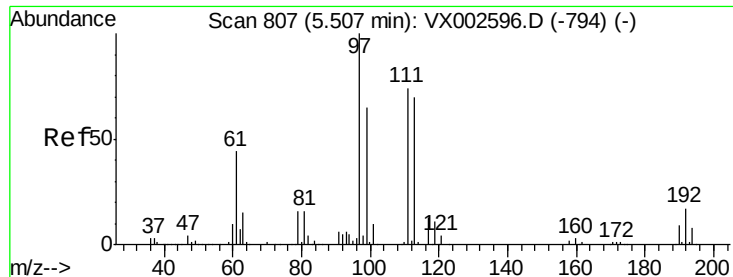
Tot Ion: 65 Resp: 144114
 Ion Ratio Lower Upper
 65 100
 67 51.2 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX002721.D
 Acq: 19 Jun 2018 18:58

Tgt Ion: 114 Resp: 301222
 Ion Ratio Lower Upper
 114 100
 63 20.3 0.0 41.4
 88 15.3 0.0 30.0





#35

Dibromofluoromethane

Concen: 46.78 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX002721.D

Acq: 19 Jun 2018 18:58

Instrument :

MSVOA_X

ClientSampled :

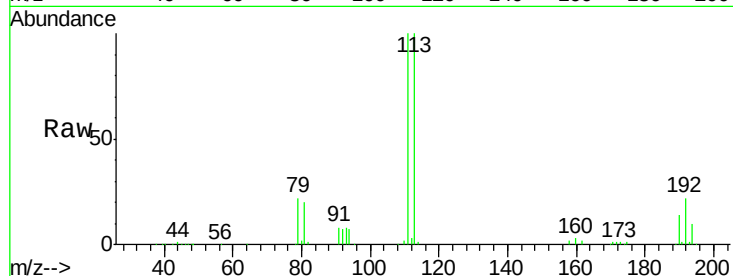
Tot Ion:113 Resp: 112471

Ion Ratio Lower Upper

113 100

111 102.3 81.4 122.0

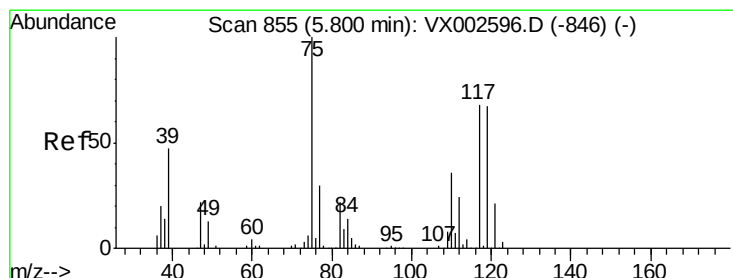
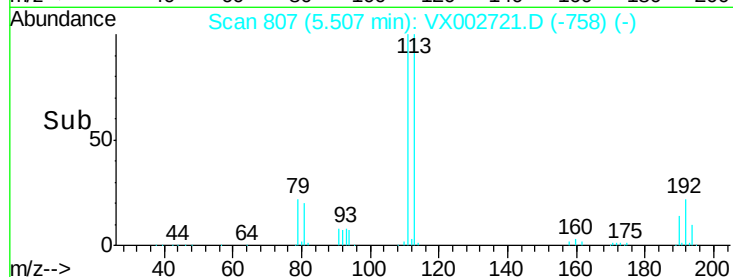
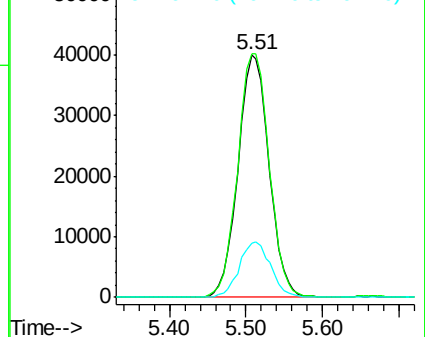
192 23.2 19.1 28.7



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: 4.71 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX002721.D

Acq: 19 Jun 2018 18:58

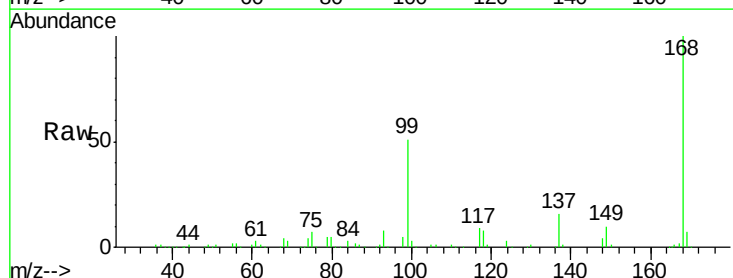
Tgt Ion: 75 Resp: 15081

Ion Ratio Lower Upper

75 100

110 10.3 18.1 54.4#

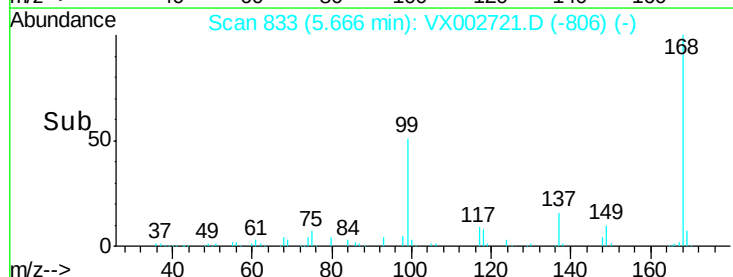
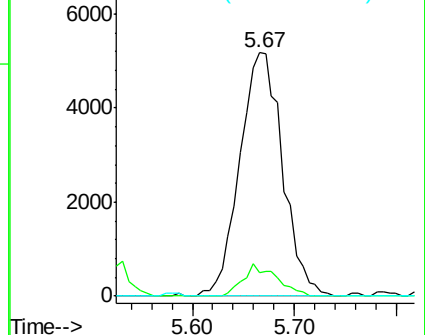
77 0.0 24.3 36.5#

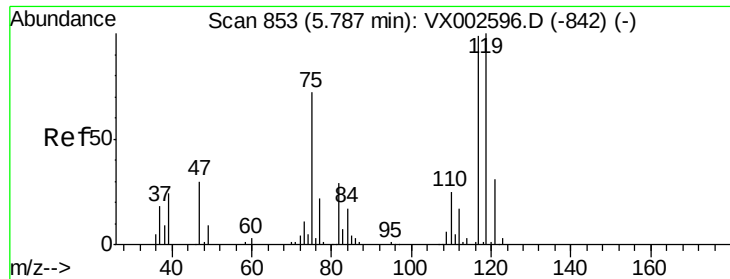


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.19 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX002721.D

Acq: 19 Jun 2018 18:58

Instrument :

MSVOA_X

ClientSampleId :

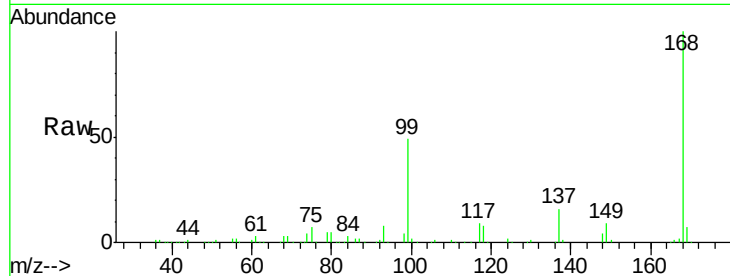
Tot Ion:117 Resp: 19728

Ion Ratio Lower Upper

117 100

119 4.4 77.4 116.0#

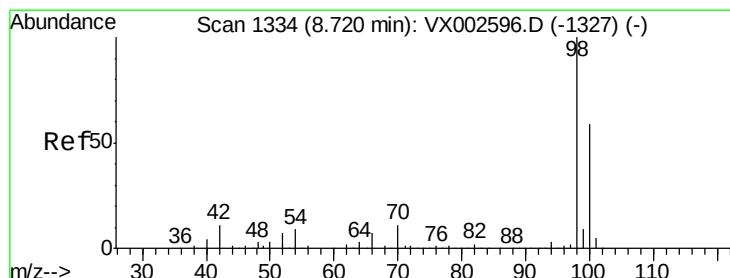
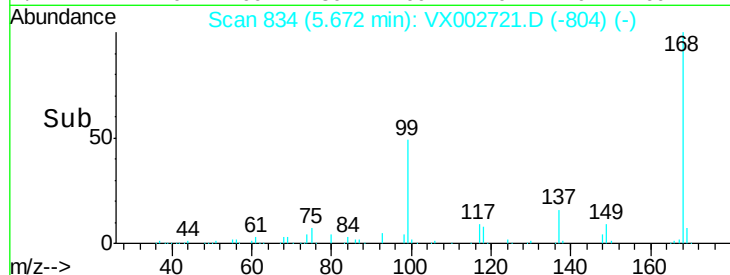
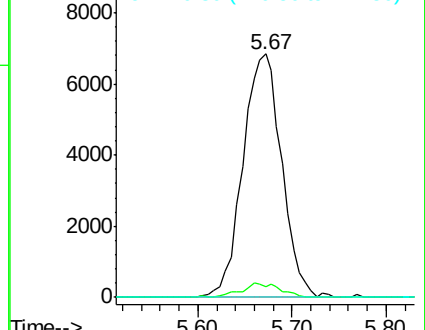
121 0.0 24.4 36.6#



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: 47.02 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX002721.D

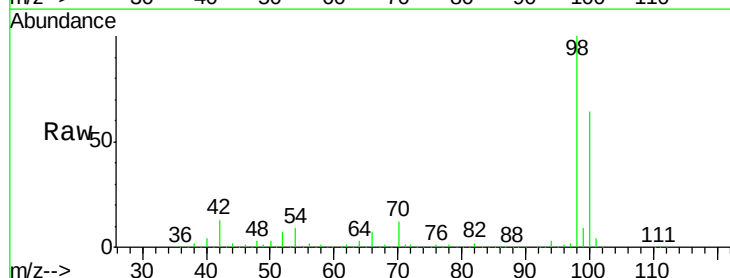
Acq: 19 Jun 2018 18:58

Tgt Ion: 98 Resp: 429171

Ion Ratio Lower Upper

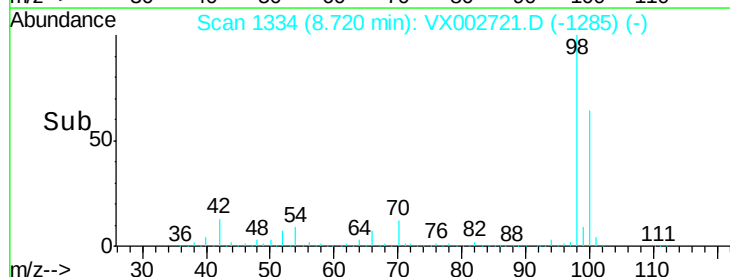
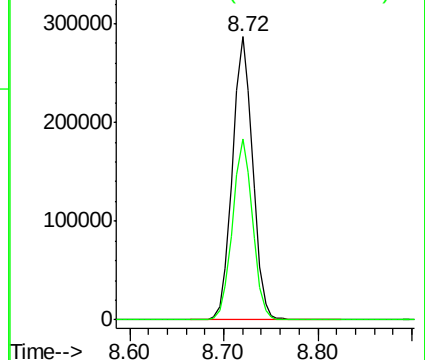
98 100

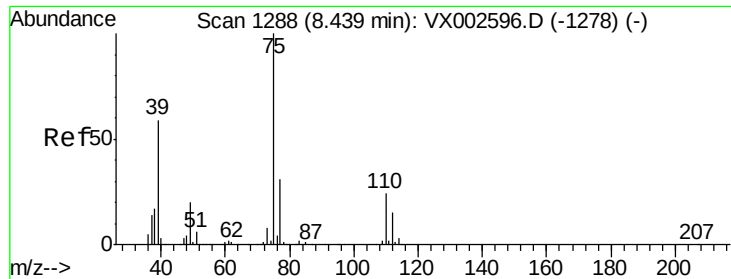
100 63.3 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

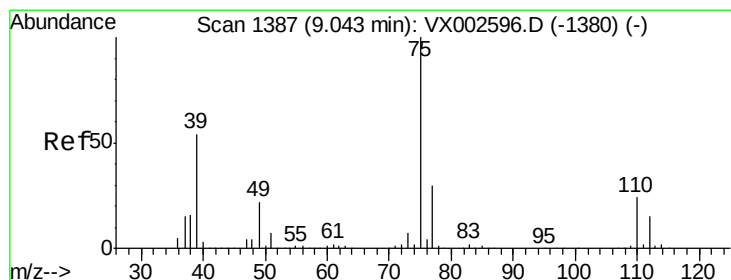
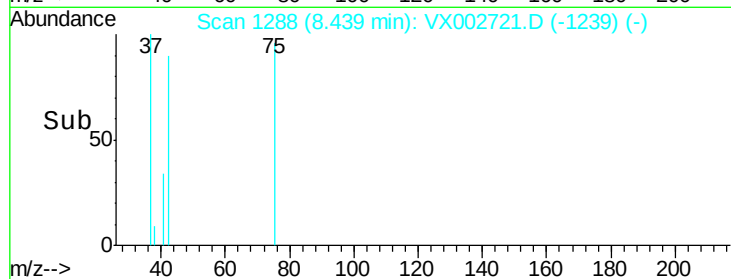
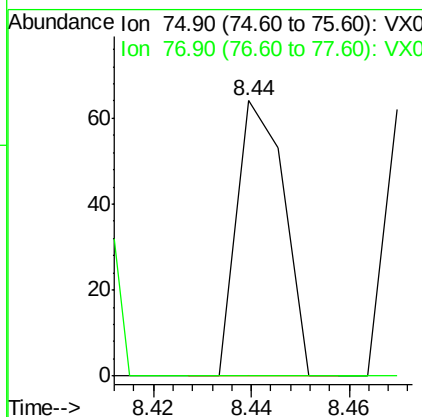
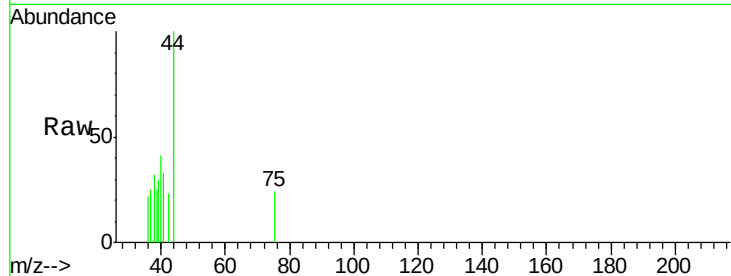




#53
t-1,3-Dichloropropene
Concen: 2.40 ug/l
RT: 8.44 min Scan# 1288
Delta R.T. 0.00 min
Lab File: VX002721.D
Acq: 19 Jun 2018 18:58

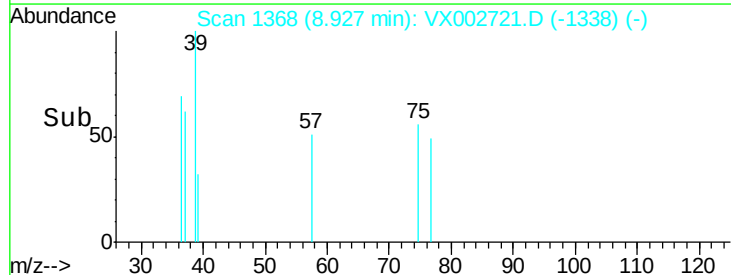
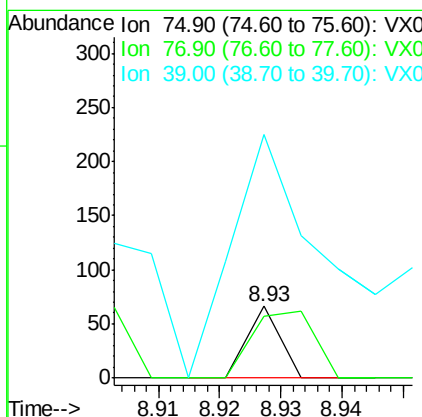
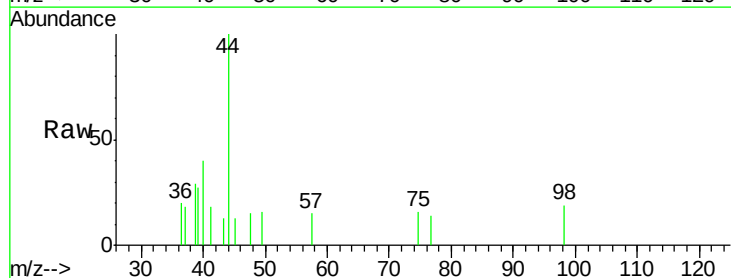
Instrument :
MSVOA_X
ClientSampled :

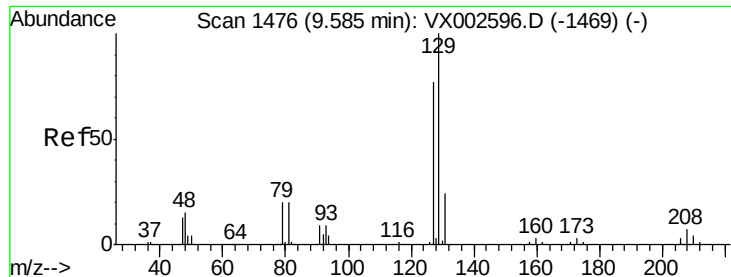
Tot Ion: 75 Resp: 43
Ion Ratio Lower Upper
75 100
77 0.0 25.4 38.2#



#54
cis-1,3-Dichloropropene
Concen: 3.22 ug/l
RT: 8.93 min Scan# 1368
Delta R.T. -0.11 min
Lab File: VX002721.D
Acq: 19 Jun 2018 18:58

Tgt Ion: 75 Resp: 24
Ion Ratio Lower Upper
75 100
77 86.4 24.8 37.2#
39 340.9 42.4 63.6#





#60

Dibromochloromethane

Concen: 3.77 ug/l

RT: 9.45 min Scan# 1453

Delta R.T. -0.14 min

Lab File: VX002721.D

Acq: 19 Jun 2018 18:58

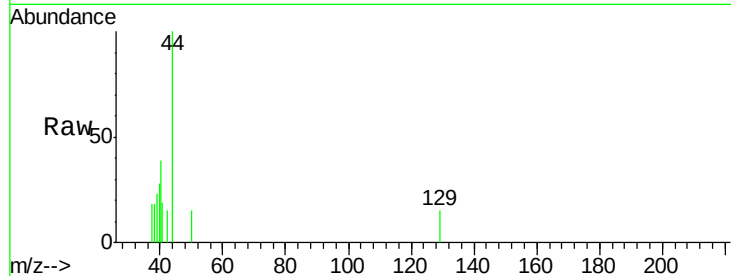
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:129 Resp: 20

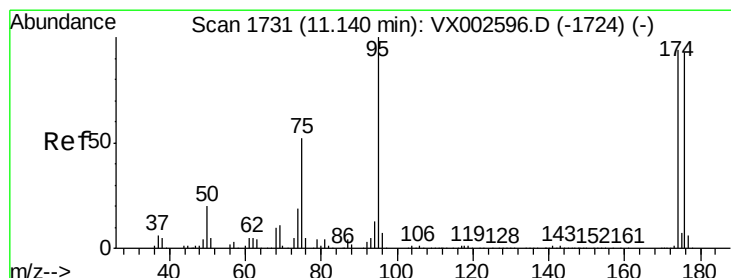
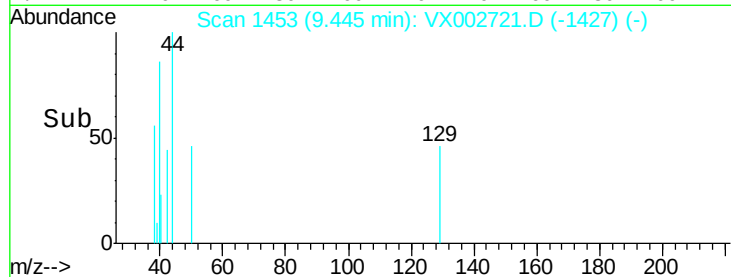
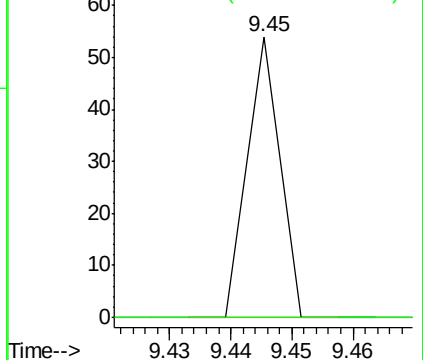
Ion Ratio Lower Upper

129 100

127 0.0 38.5 115.3#



Abundance Ion 128.80 (128.50 to 129.50): V
Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 43.07 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX002721.D

Acq: 19 Jun 2018 18:58

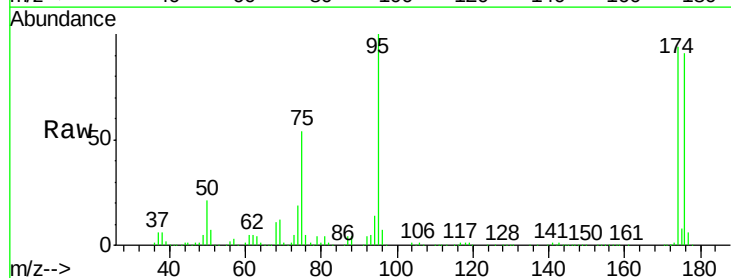
Tgt Ion: 95 Resp: 148964

Ion Ratio Lower Upper

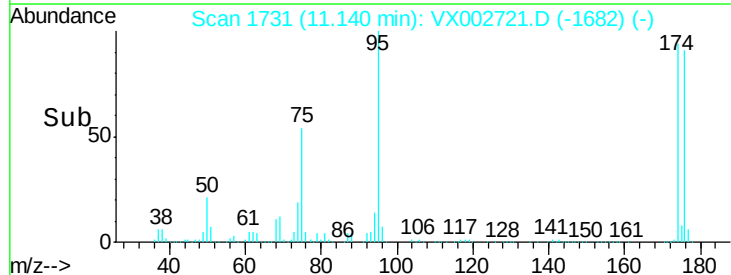
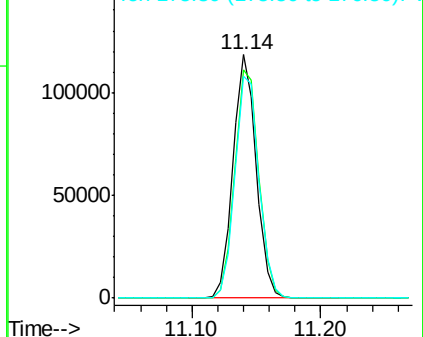
95 100

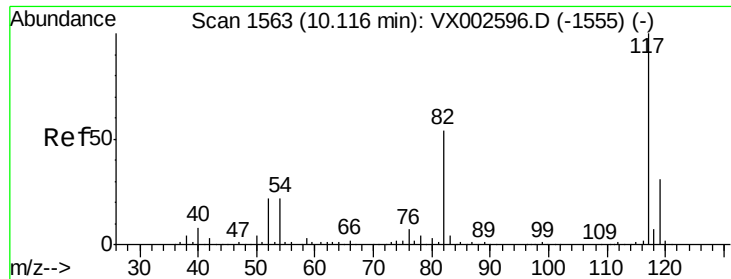
174 97.5 0.0 187.4

176 95.0 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

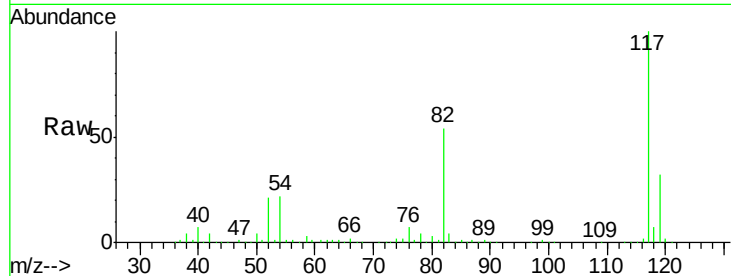




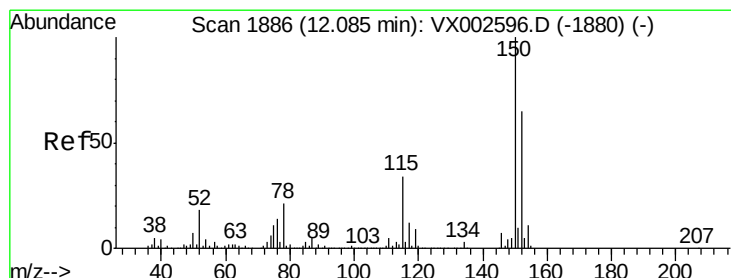
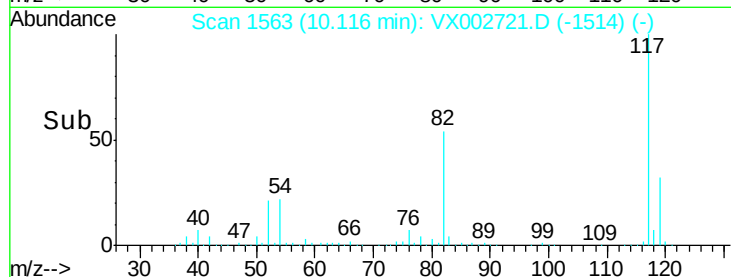
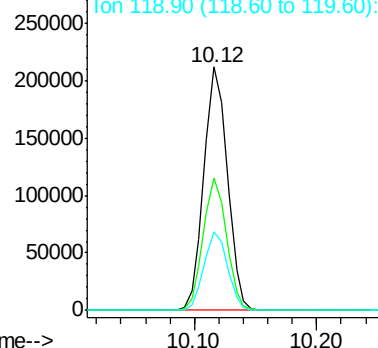
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX002721.D
Acq: 19 Jun 2018 18:58

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:117 Resp: 281601
Ion Ratio Lower Upper
117 100
82 54.2 45.0 67.4
119 32.5 25.8 38.6

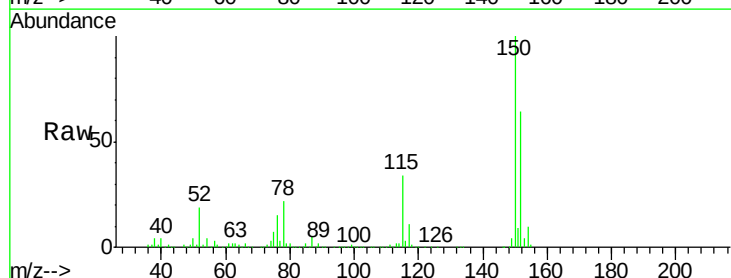


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

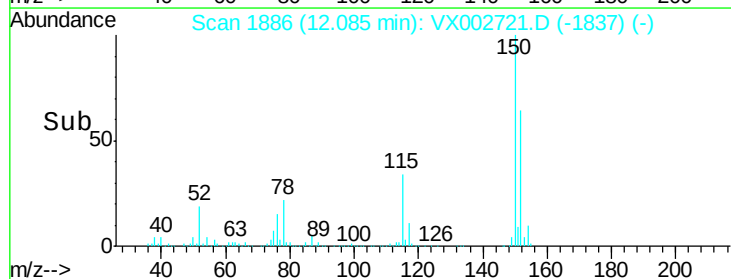
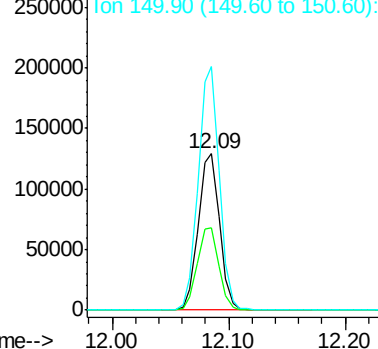


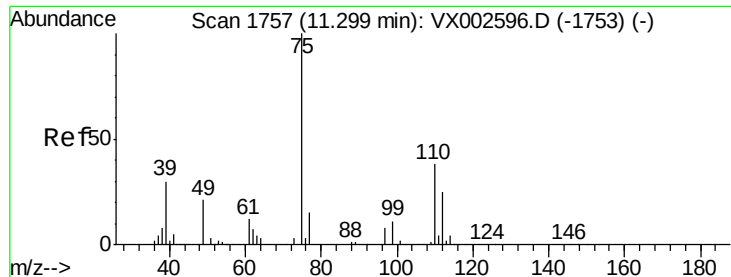
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.09 min Scan# 1886
Delta R.T. 0.00 min
Lab File: VX002721.D
Acq: 19 Jun 2018 18:58

Tgt Ion:152 Resp: 162817
Ion Ratio Lower Upper
152 100
115 54.0 40.1 120.2
150 153.8 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: 26.09 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002721.D

Acq: 19 Jun 2018 18:58

Instrument :

MSVOA_X

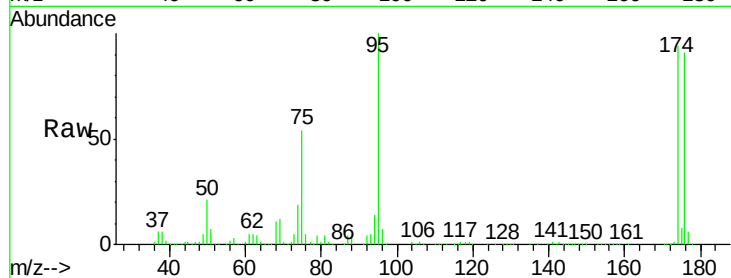
ClientSampleId :

Tot Ion: 75 Resp: 80157

Ion Ratio Lower Upper

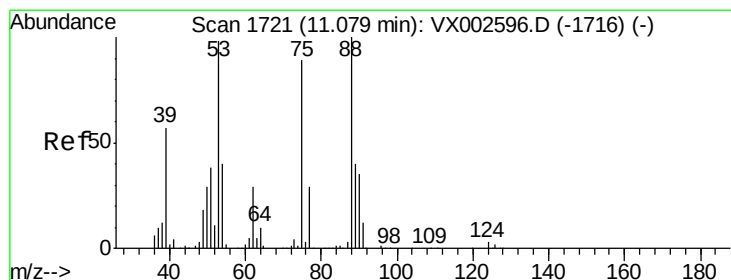
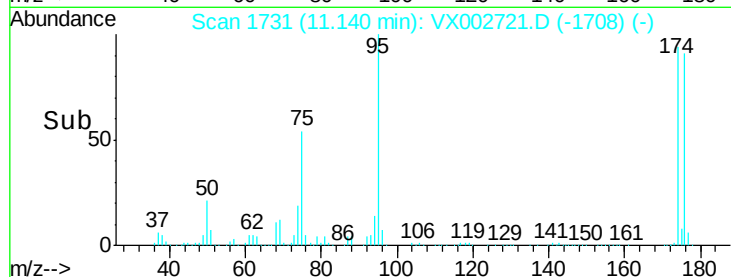
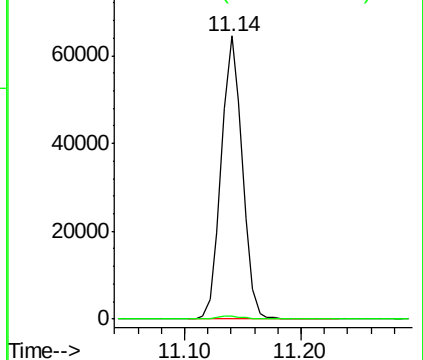
75 100

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: 80.68 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002721.D

Acq: 19 Jun 2018 18:58

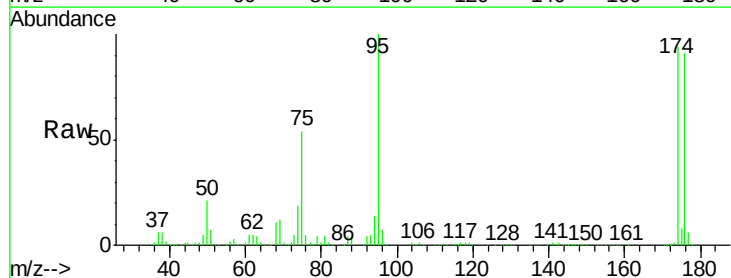
Tgt Ion: 75 Resp: 80157

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

