

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062018\
 Data File : VX002769.D
 Acq On : 21 Jun 2018 04:18
 Operator : JC/MD
 Sample : PB110408ZHE#08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 21 05:58:51 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	223271	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	317148	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	295677	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	166283	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	153453	45.23	ug/l	0.00
Spiked Amount			Recovery	=	90.46%	
35) Dibromofluoromethane	5.51	113	123347	48.73	ug/l	0.00
Spiked Amount			Recovery	=	97.46%	
50) Toluene-d8	8.72	98	452802	47.11	ug/l	0.00
Spiked Amount			Recovery	=	94.22%	
62) 4-Bromofluorobenzene	11.14	95	157370	43.21	ug/l	0.00
Spiked Amount			Recovery	=	86.42%	

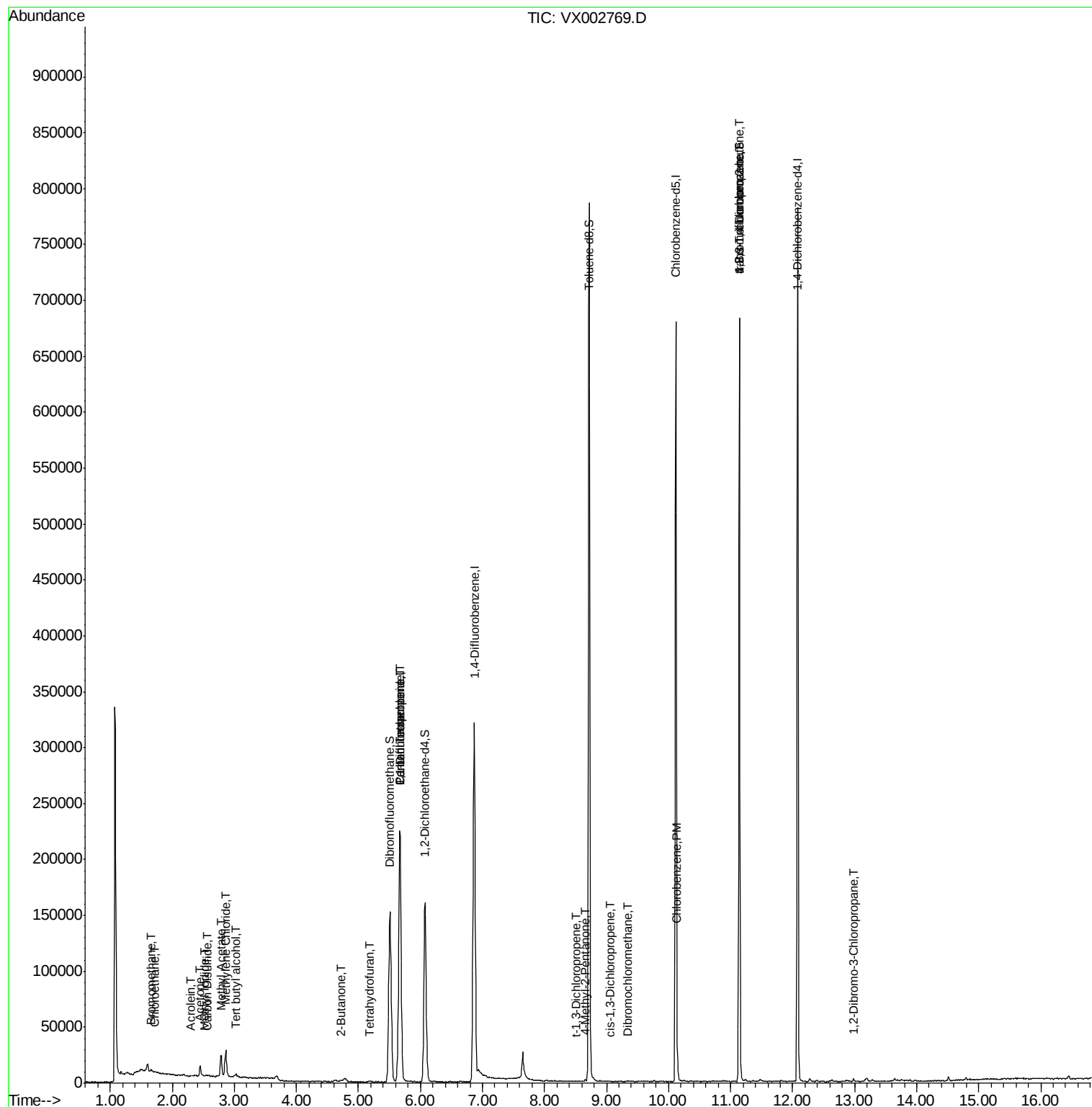
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.67	94	1108	0.63	ug/l	90
6) Chloroethane	1.70	64	401	0.21	ug/l #	66
10) Methyl Iodide	2.51	142	1068	5.45	ug/l #	88
11) Tert butyl alcohol	3.03	59	1863	2.66	ug/l #	91
13) Acrolein	2.29	56	292	7.73	ug/l #	14
16) Acetone	2.45	43	10610	7.09	ug/l	100
17) Carbon Disulfide	2.57	76	1265	0.21	ug/l #	92
18) Methyl Acetate	2.78	43	24088	6.04	ug/l	98
20) Methylene Chloride	2.86	84	11258	3.67	ug/l	93
25) 2-Butanone	4.72	43	1839	0.94	ug/l	99
29) Tetrahydrofuran	5.18	42	1012	0.79	ug/l #	54
36) 1,1-Dichloropropene	5.67	75	15324	4.55	ug/l #	51
38) Carbon Tetrachloride	5.67	117	20500	6.11	ug/l #	16
51) 4-Methyl-2-Pentanone	8.66	43	909	0.22	ug/l #	83
53) t-1,3-Dichloropropene	8.51	75	19	2.40	ug/l #	43
54) cis-1,3-Dichloropropene	9.06	75	73	3.23	ug/l #	36
60) Dibromochloromethane	9.34	129	72	3.78	ug/l #	11
65) Chlorobenzene	10.14	112	3877	0.53	ug/l #	87
76) 1,2,3-Trichloropropane	11.14	75	82921	26.43	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	82921	81.67	ug/l #	7
92) 1,2-Dibromo-3-Chloropropan	12.99	75	281	0.41	ug/l #	1

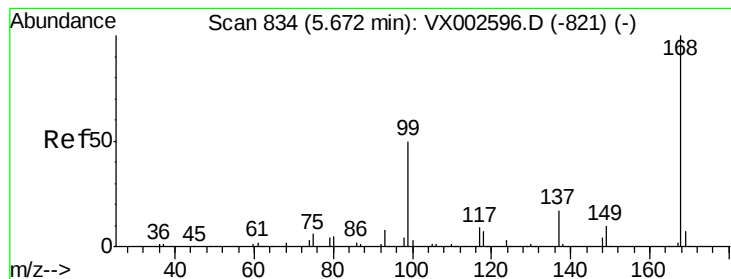
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Jun 16 01:37:33 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: VX002769.D

Acq: 21 Jun 2018 04:18

Instrument :

MSVOA_X

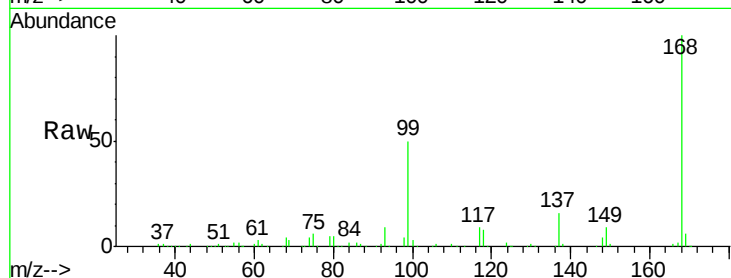
ClientSampleId :

Tot Ion:168 Resp: 223271

Ion Ratio Lower Upper

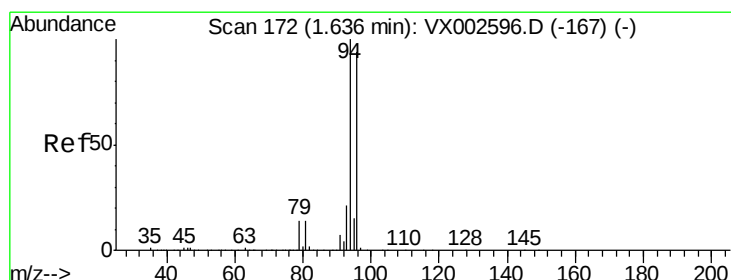
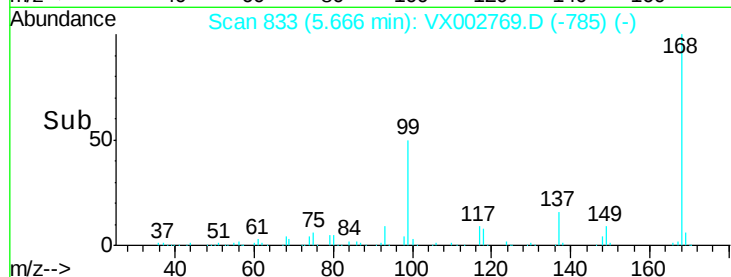
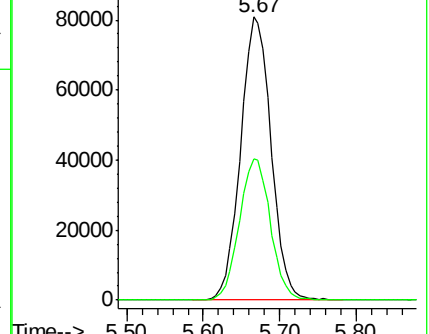
168 100

99 50.1 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.63 ug/l

RT: 1.67 min Scan# 177

Delta R.T. 0.03 min

Lab File: VX002769.D

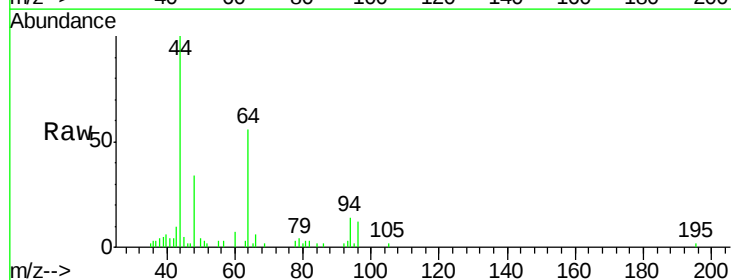
Acq: 21 Jun 2018 04:18

Tgt Ion: 94 Resp: 1108

Ion Ratio Lower Upper

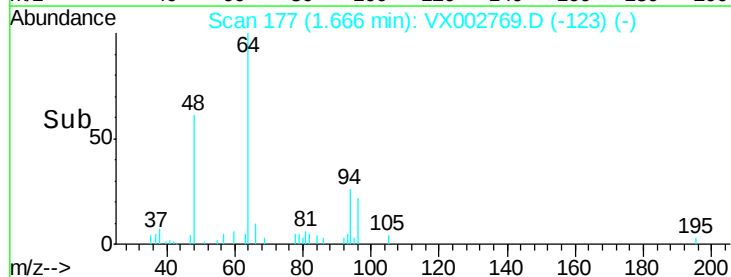
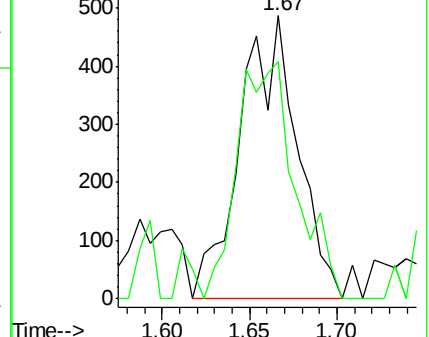
94 100

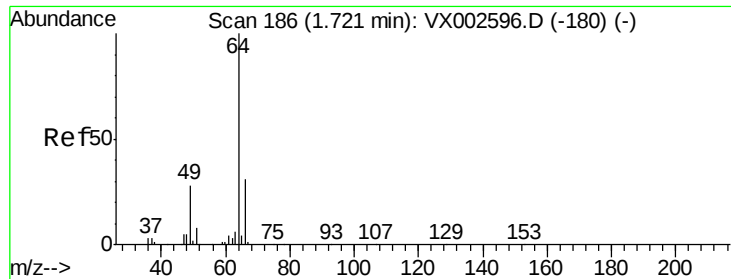
96 83.6 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.21 ug/l

RT: 1.70 min Scan# 183

Delta R.T. -0.02 min

Lab File: VX002769.D

Acq: 21 Jun 2018 04:18

Instrument :

MSVOA_X

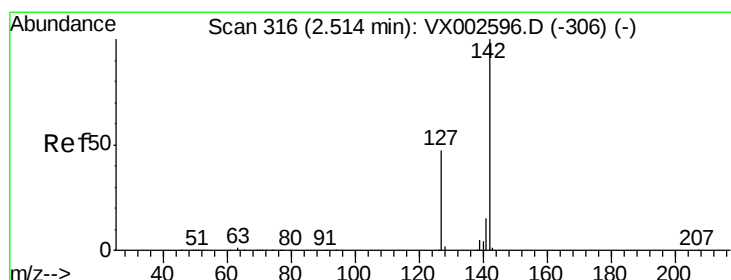
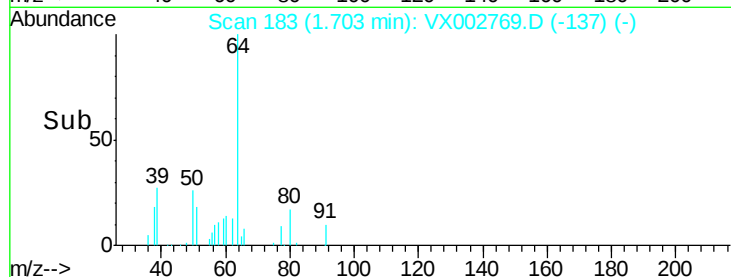
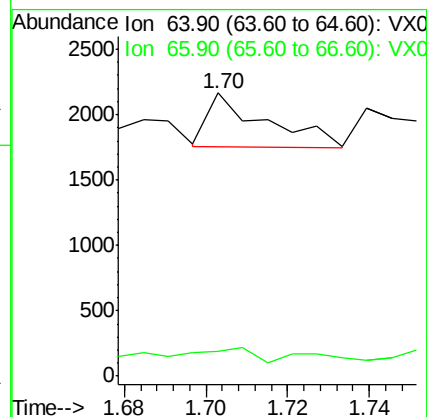
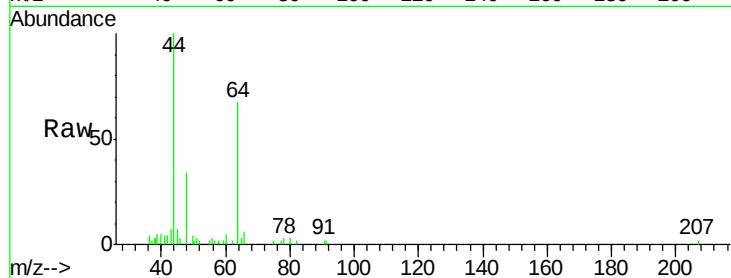
ClientSampleId :

Tot Ion: 64 Resp: 401

Ion Ratio Lower Upper

64 100

66 13.0 25.5 38.3#



#10

Methyl Iodide

Concen: 5.45 ug/l

RT: 2.51 min Scan# 316

Delta R.T. 0.00 min

Lab File: VX002769.D

Acq: 21 Jun 2018 04:18

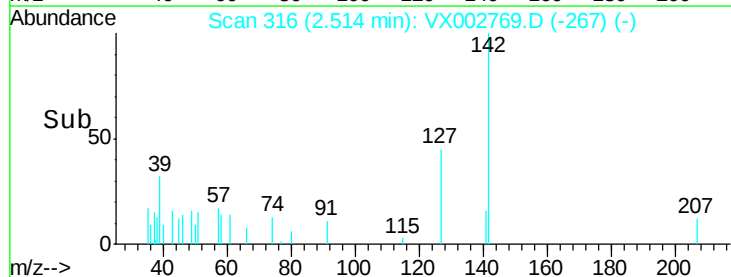
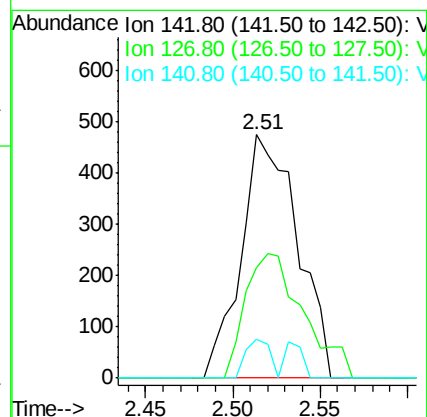
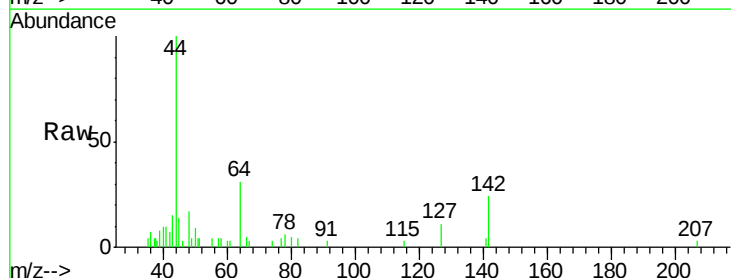
Tgt Ion:142 Resp: 1068

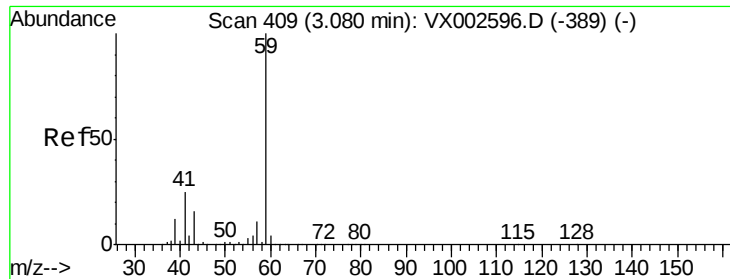
Ion Ratio Lower Upper

142 100

127 52.4 36.6 55.0

141 6.7 11.3 16.9#

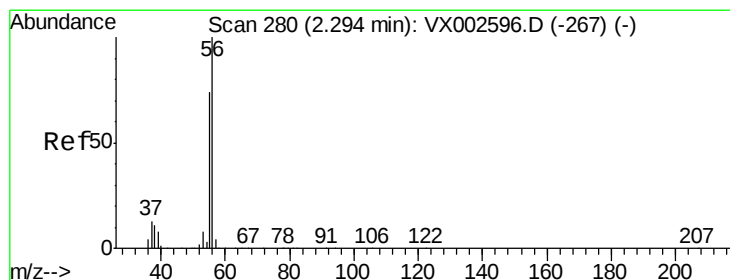
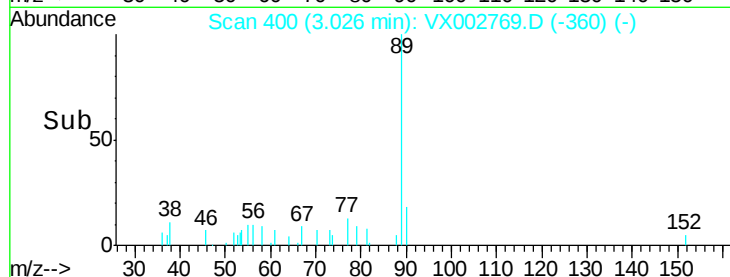
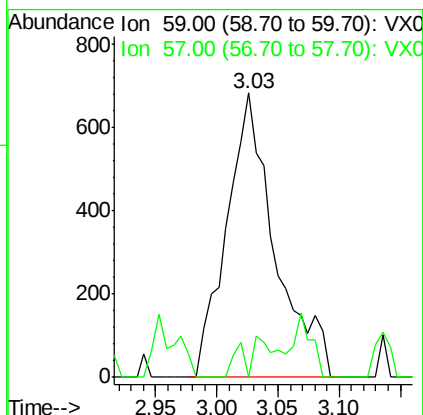
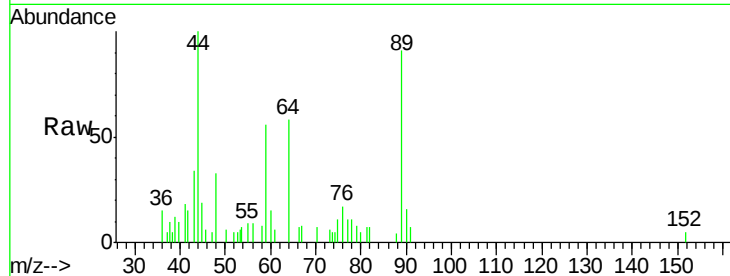




#11
Tert butyl alcohol
Concen: 2.66 ug/l
RT: 3.03 min Scan# 400
Delta R.T. -0.05 min
Lab File: VX002769.D
Acq: 21 Jun 2018 04:18

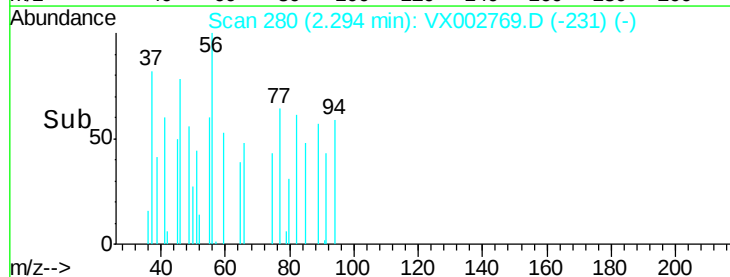
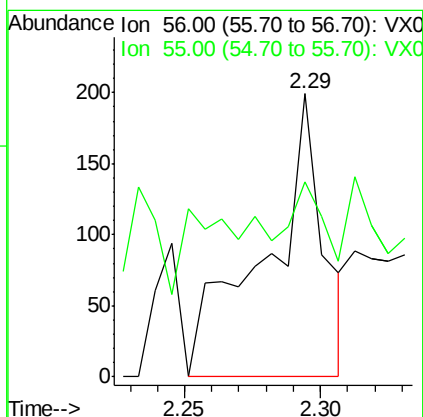
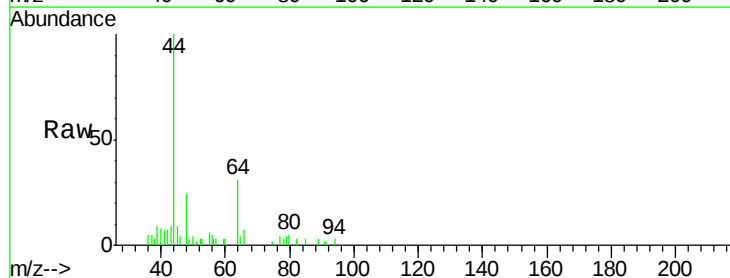
Instrument :
MSVOA_X
ClientSampleId :

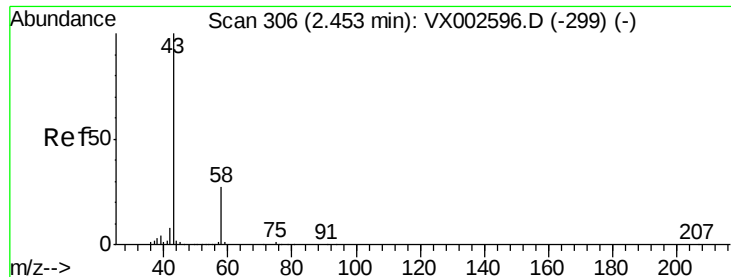
Tot Ion: 59 Resp: 1863
Ion Ratio Lower Upper
59 100
57 6.9 8.2 12.2#



#13
Acrolein
Concen: 7.73 ug/l
RT: 2.29 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX002769.D
Acq: 21 Jun 2018 04:18

Tgt Ion: 56 Resp: 292
Ion Ratio Lower Upper
56 100
55 0.0 57.0 85.4#





#16

Acetone

Concen: 7.09 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002769.D

Acq: 21 Jun 2018 04:18

Instrument :

MSVOA_X

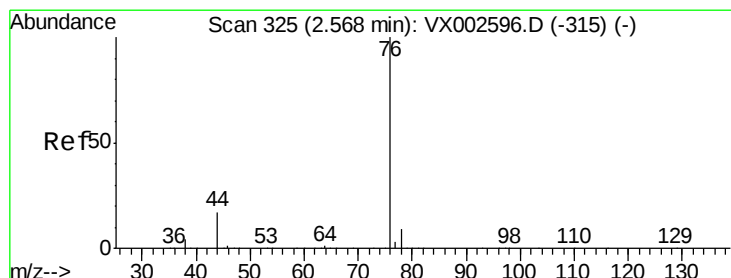
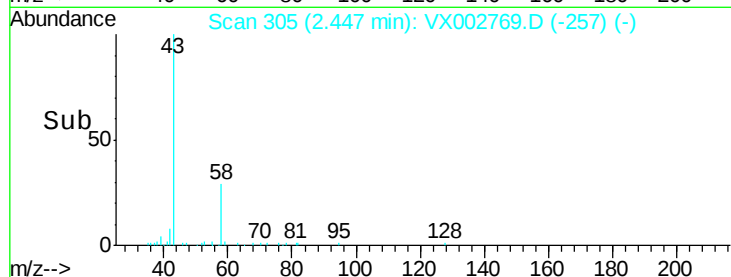
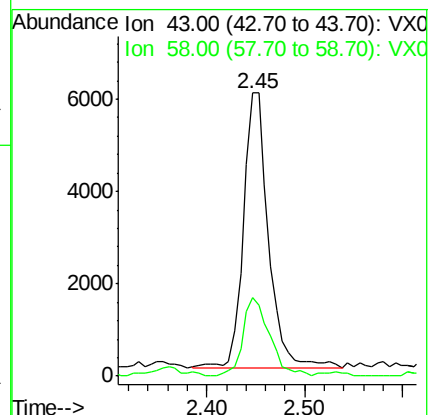
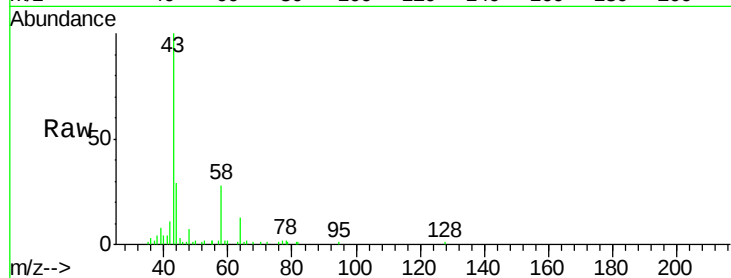
ClientSampleId :

Tot Ion: 43 Resp: 10610

Ion Ratio Lower Upper

43 100

58 27.8 22.1 33.1



#17

Carbon Disulfide

Concen: 0.21 ug/l

RT: 2.57 min Scan# 326

Delta R.T. 0.01 min

Lab File: VX002769.D

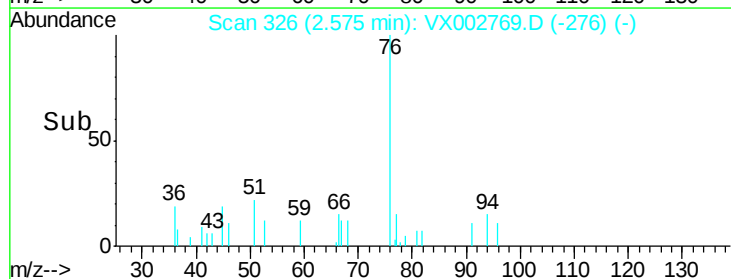
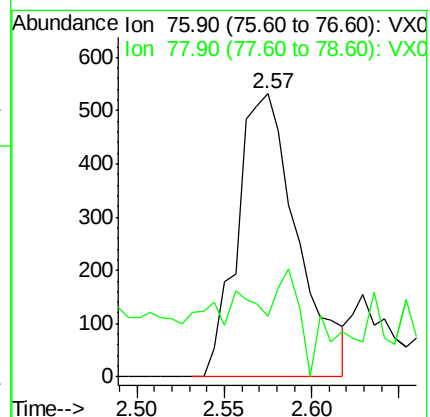
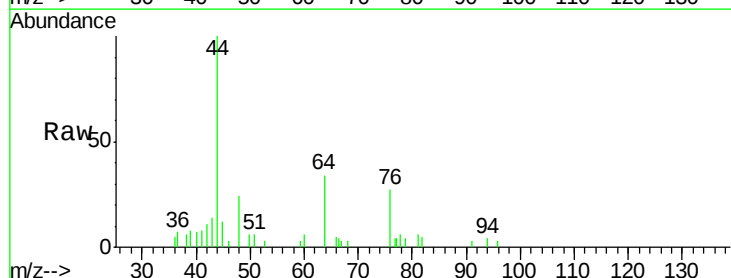
Acq: 21 Jun 2018 04:18

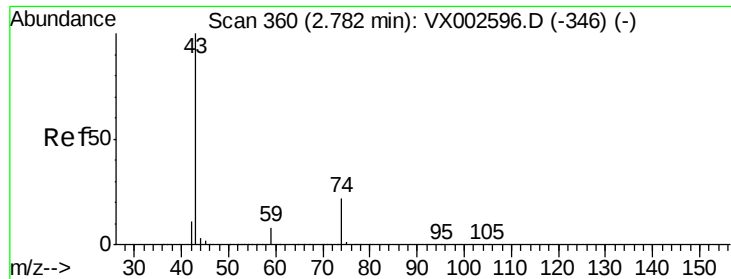
Tgt Ion: 76 Resp: 1265

Ion Ratio Lower Upper

76 100

78 5.6 6.9 10.3#

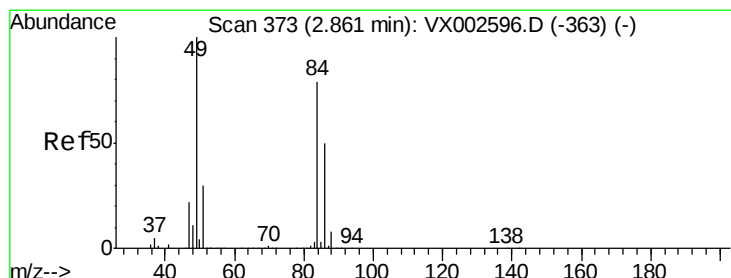
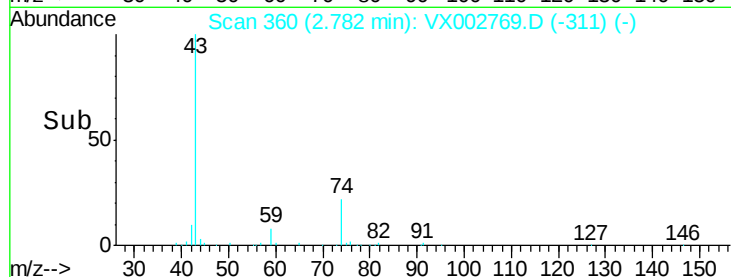
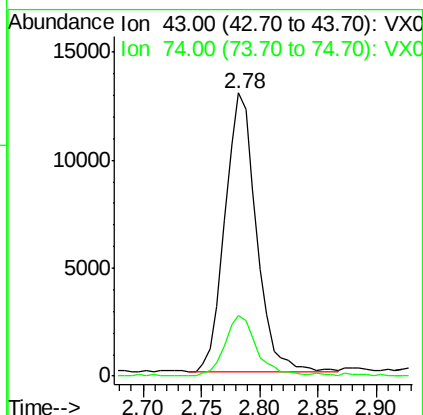
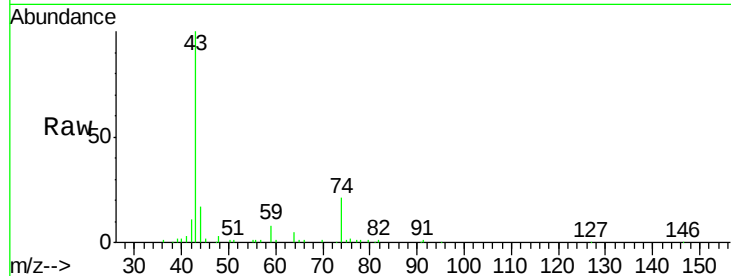




#18
Methyl Acetate
Concen: 6.04 ug/l
RT: 2.78 min Scan# 360
Delta R.T. 0.00 min
Lab File: VX002769.D
Acq: 21 Jun 2018 04:18

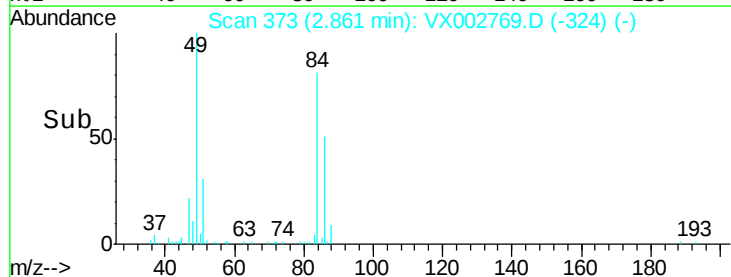
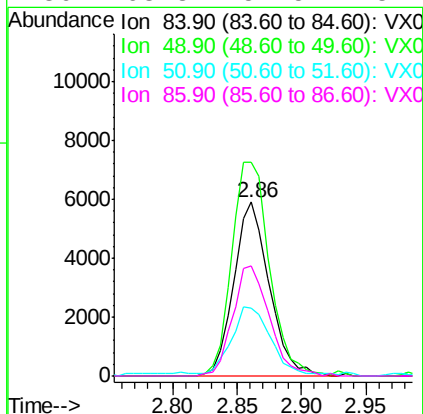
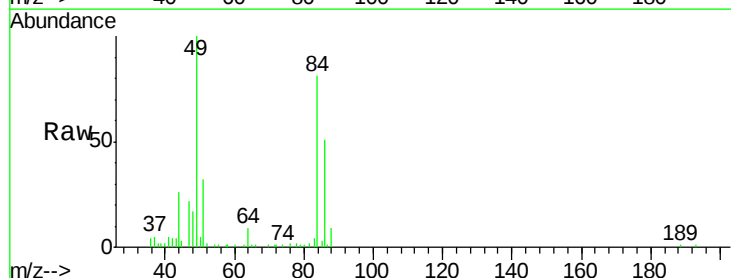
Instrument :
MSVOA_X
ClientSampleId :

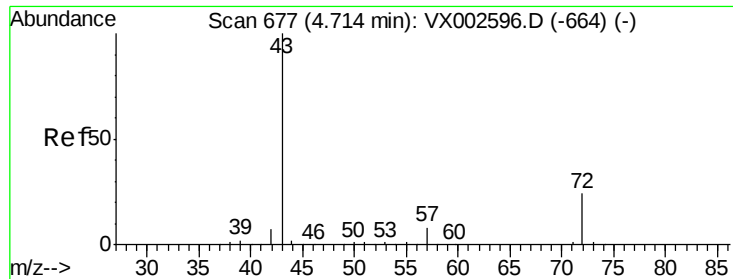
Tot Ion: 43 Resp: 24088
Ion Ratio Lower Upper
43 100
74 21.8 16.7 25.1



#20
Methylene Chloride
Concen: 3.67 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX002769.D
Acq: 21 Jun 2018 04:18

Tgt Ion: 84 Resp: 11258
Ion Ratio Lower Upper
84 100
49 123.0 107.8 161.6
51 38.1 32.8 49.2
86 63.3 52.5 78.7

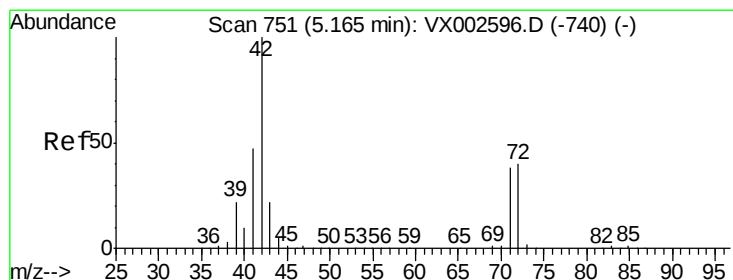
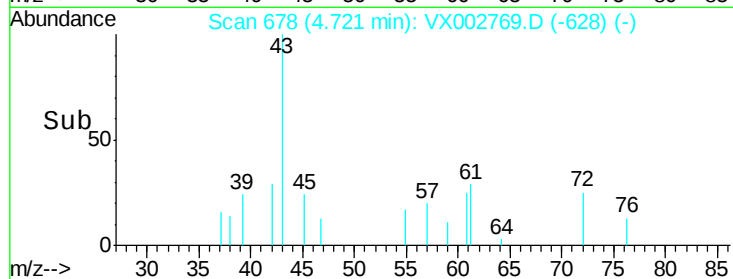
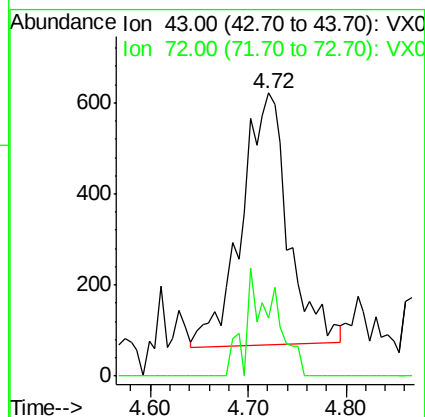
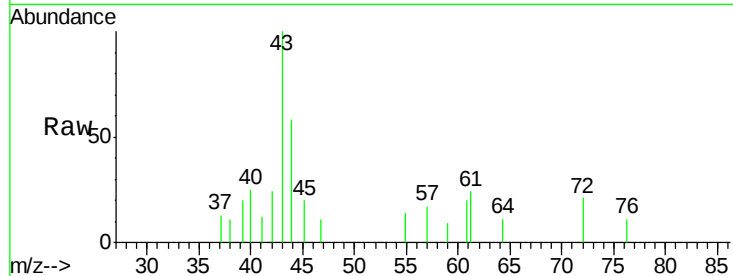




#25
2-Butanone
Concen: 0.94 ug/l
RT: 4.72 min Scan# 678
Delta R.T. 0.01 min
Lab File: VX002769.D
Acq: 21 Jun 2018 04:18

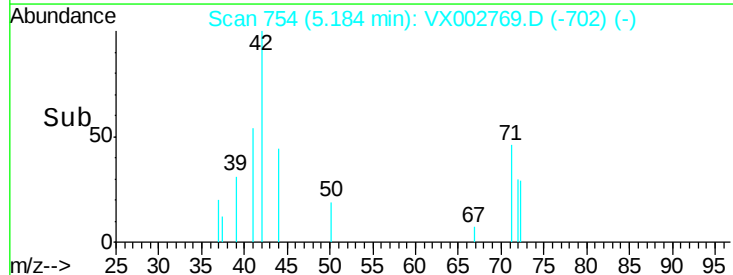
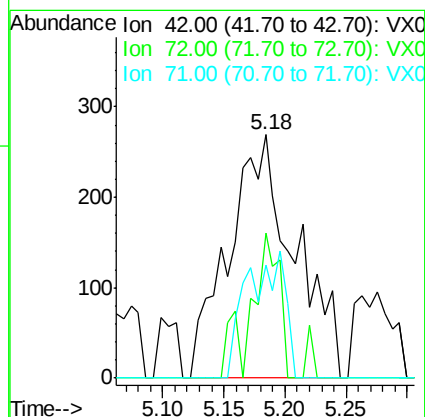
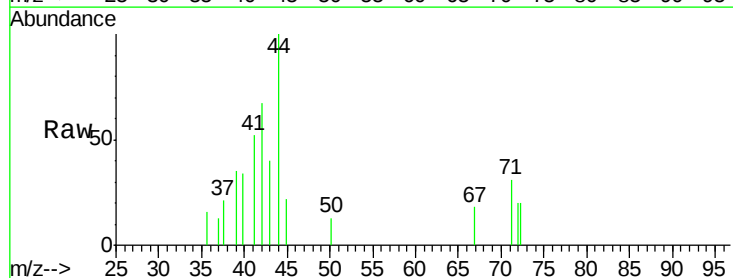
Instrument :
MSVOA_X
ClientSampled :

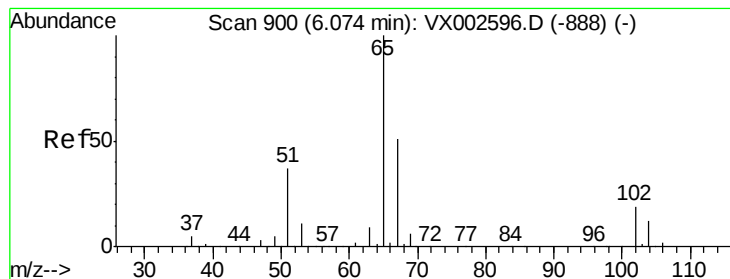
Tot Ion: 43 Resp: 1839
Ion Ratio Lower Upper
43 100
72 23.4 18.5 27.7



#29
Tetrahydrofuran
Concen: 0.79 ug/l
RT: 5.18 min Scan# 754
Delta R.T. 0.02 min
Lab File: VX002769.D
Acq: 21 Jun 2018 04:18

Tgt Ion: 42 Resp: 1012
Ion Ratio Lower Upper
42 100
72 21.1 32.0 48.0#
71 0.0 30.1 45.1#





#33

1,2-Dichloroethane-d4

Concen: 45.23 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX002769.D

Acq: 21 Jun 2018 04:18

Instrument :

MSVOA_X

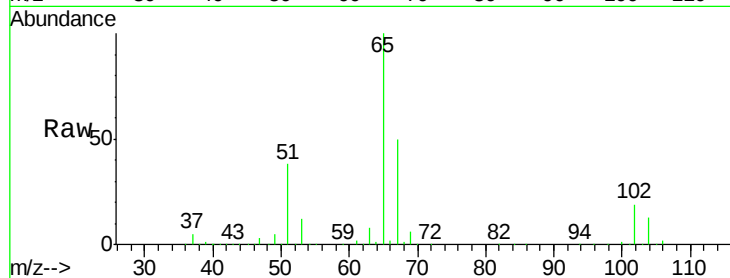
ClientSampleId :

Tot Ion: 65 Resp: 153453

Ion Ratio Lower Upper

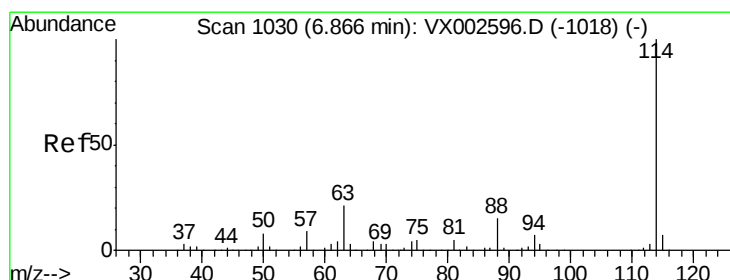
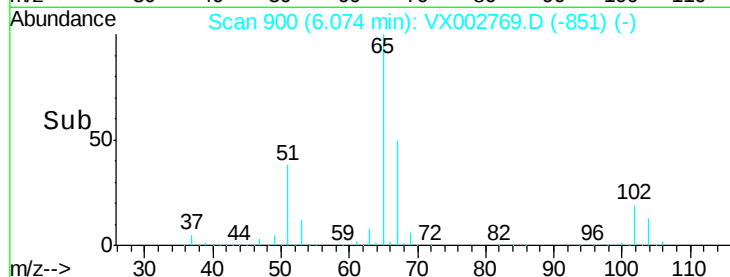
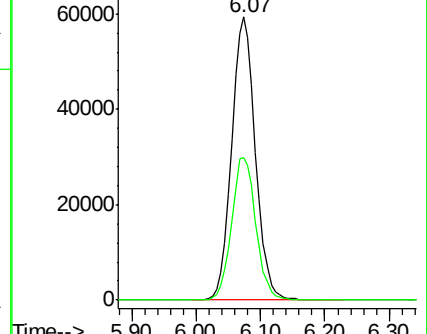
65 100

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: VX002769.D

Acq: 21 Jun 2018 04:18

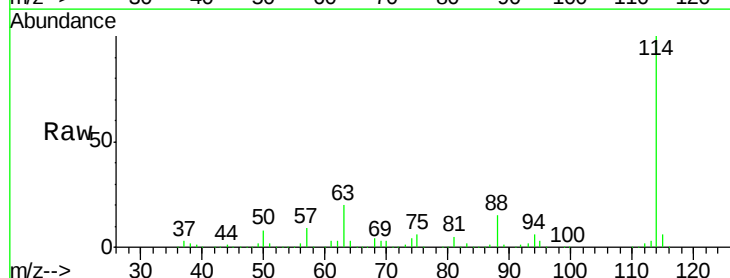
Tgt Ion: 114 Resp: 317148

Ion Ratio Lower Upper

114 100

63 20.3 0.0 41.4

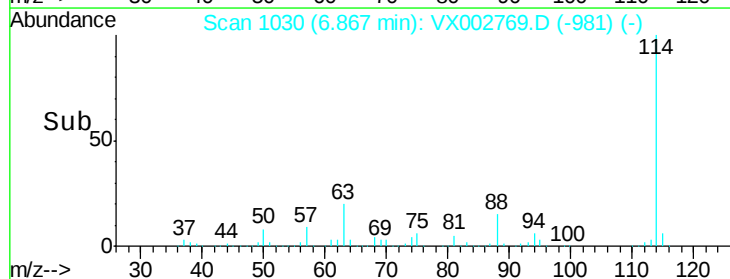
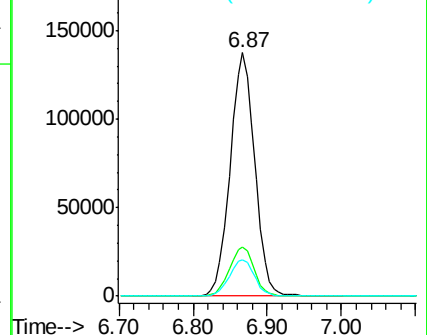
88 15.0 0.0 30.0

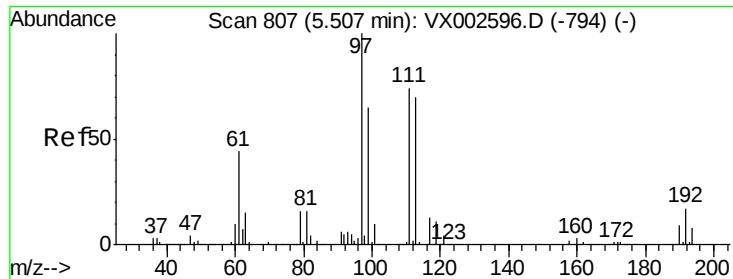


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 48.73 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX002769.D

Acq: 21 Jun 2018 04:18

Instrument :

MSVOA_X

ClientSampleId :

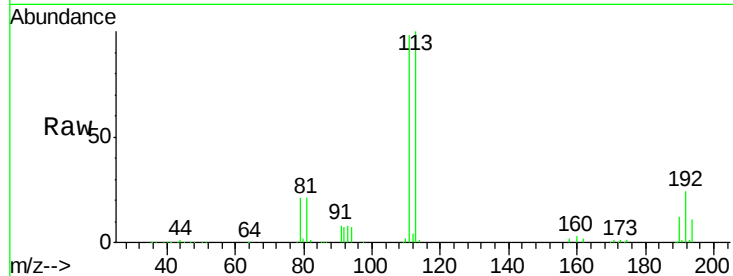
Tot Ion:113 Resp: 123347

Ion Ratio Lower Upper

113 100

111 101.7 81.4 122.0

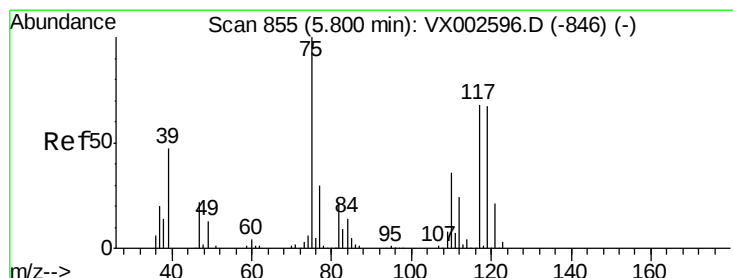
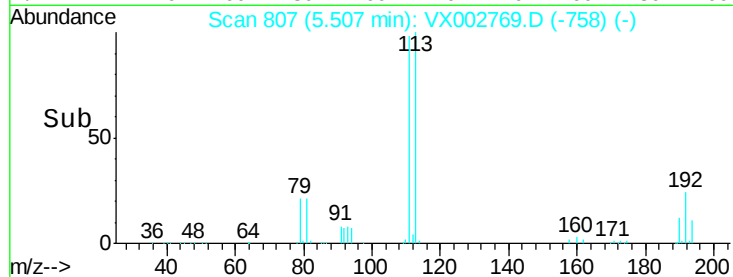
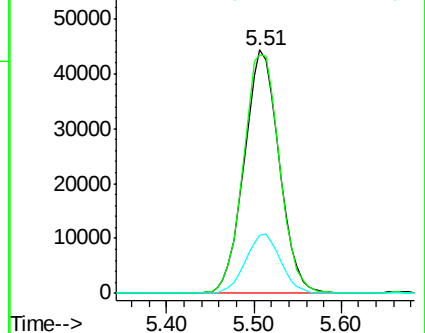
192 24.4 19.1 28.7



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: VX002769.D

Acq: 21 Jun 2018 04:18

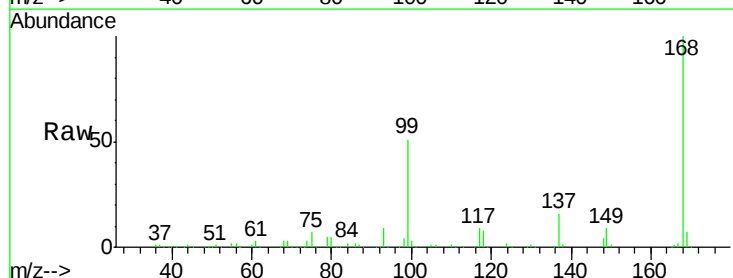
Tgt Ion: 75 Resp: 15324

Ion Ratio Lower Upper

75 100

110 10.6 18.1 54.4#

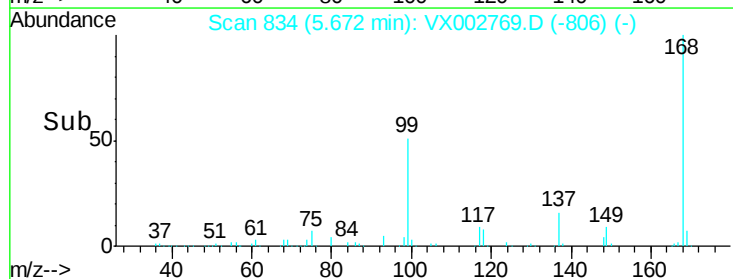
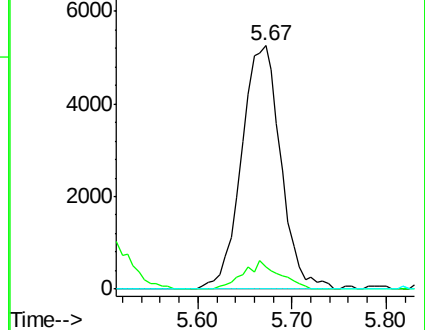
77 0.0 24.3 36.5#

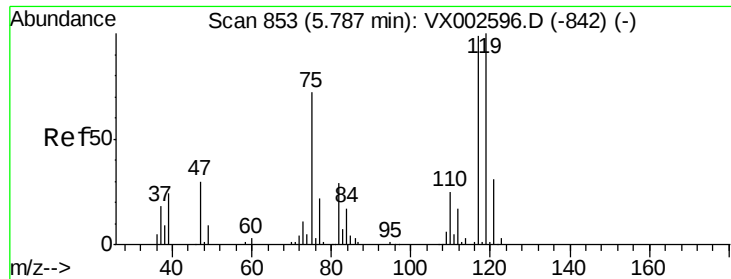


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.11 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX002769.D

Acq: 21 Jun 2018 04:18

Instrument :
MSVOA_X
ClientSampled :

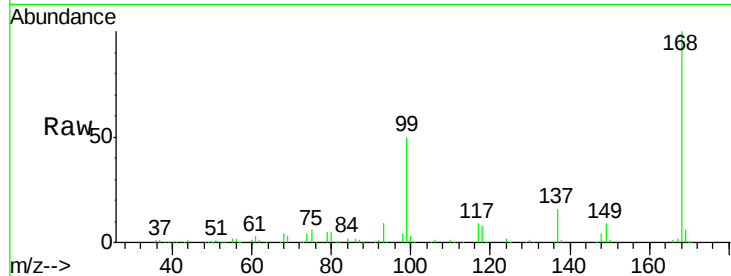
Tot Ion:117 Resp: 20500

Ion Ratio Lower Upper

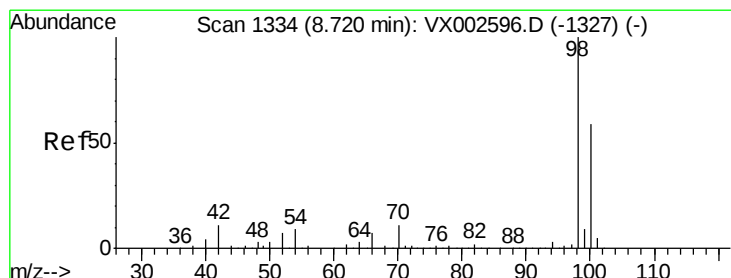
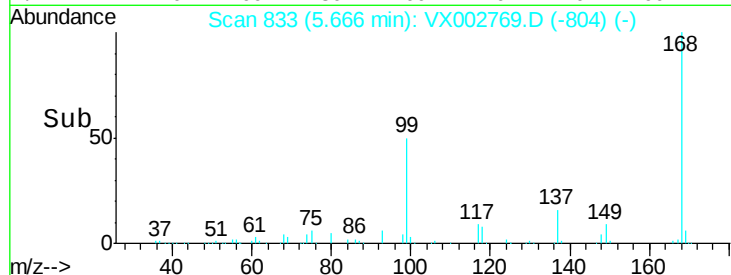
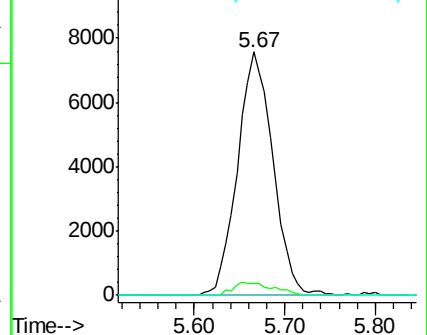
117 100

119 4.9 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: 47.11 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX002769.D

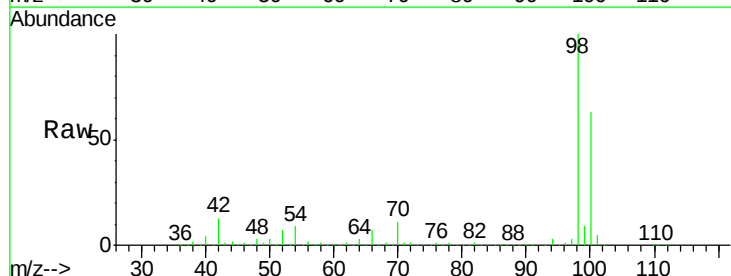
Acq: 21 Jun 2018 04:18

Tgt Ion: 98 Resp: 452802

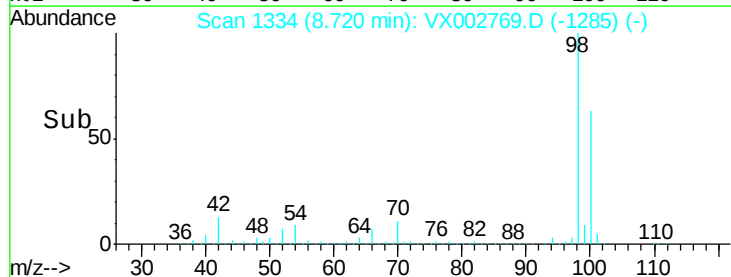
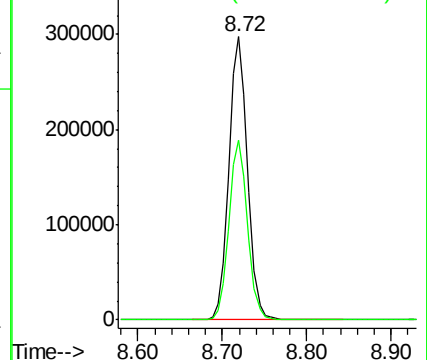
Ion Ratio Lower Upper

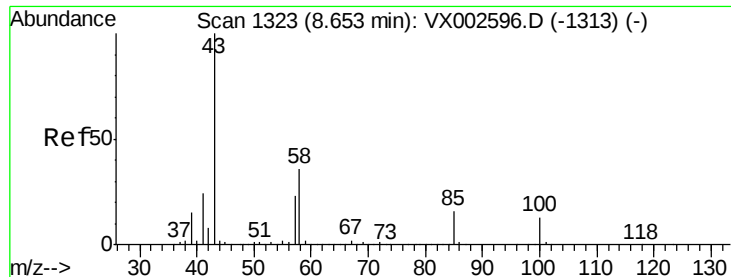
98 100

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





#51

4-Methyl-2-Pentanone

Concen: 0.22 ug/l

RT: 8.66 min Scan# 1324

Delta R.T. 0.01 min

Lab File: VX002769.D

Acq: 21 Jun 2018 04:18

Instrument :

MSVOA_X

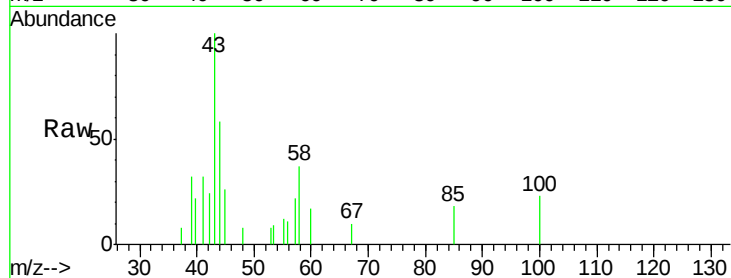
ClientSampled :

Tot Ion: 43 Resp: 909

Ion Ratio Lower Upper

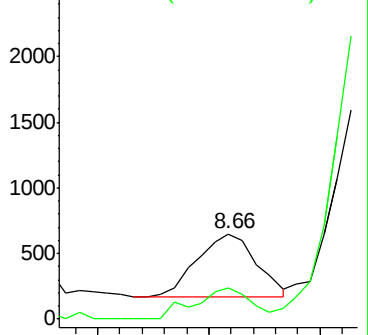
43 100

58 45.9 28.6 42.8#

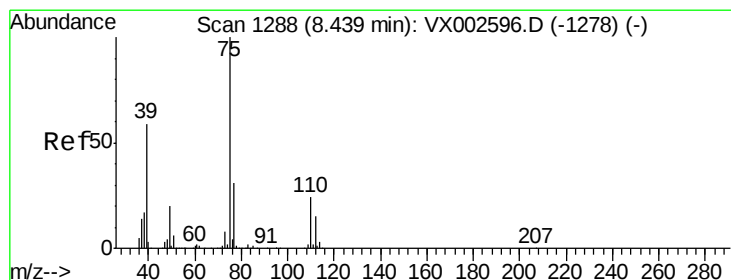
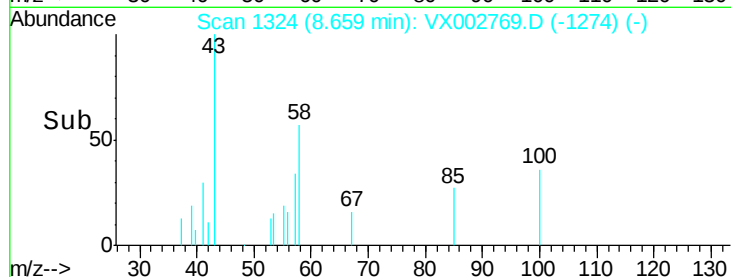


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->



#53

t-1,3-Dichloropropene

Concen: 2.40 ug/l

RT: 8.51 min Scan# 1300

Delta R.T. 0.07 min

Lab File: VX002769.D

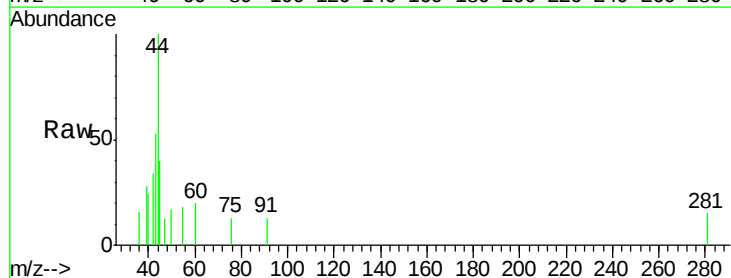
Acq: 21 Jun 2018 04:18

Tgt Ion: 75 Resp: 19

Ion Ratio Lower Upper

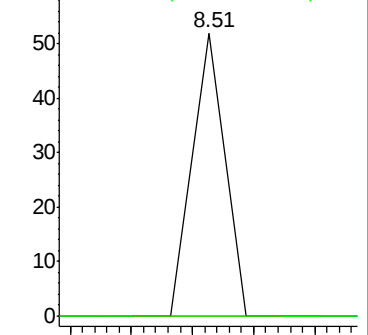
75 100

77 0.0 25.4 38.2#

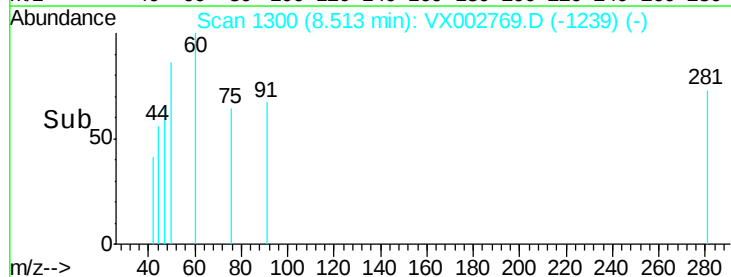


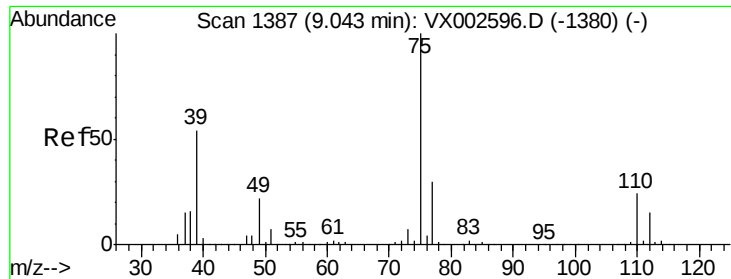
Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0



Time-->



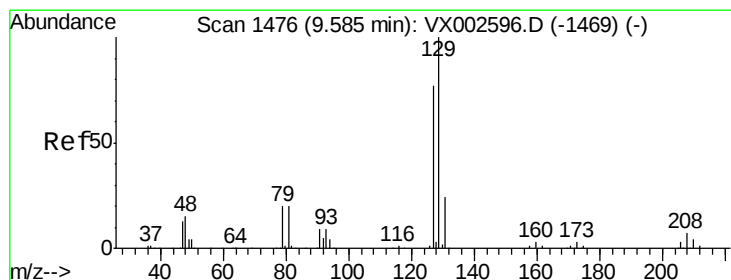
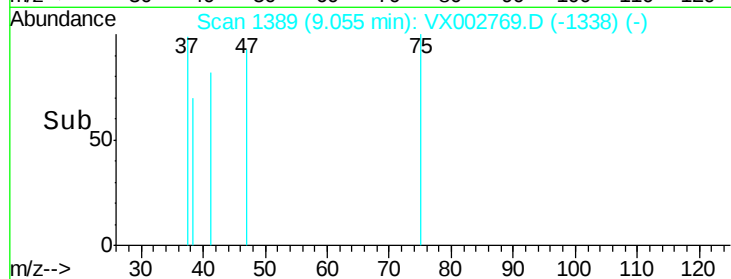
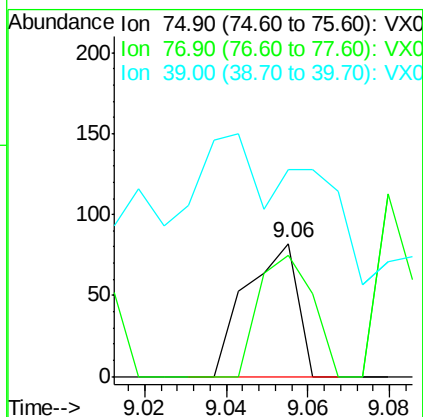
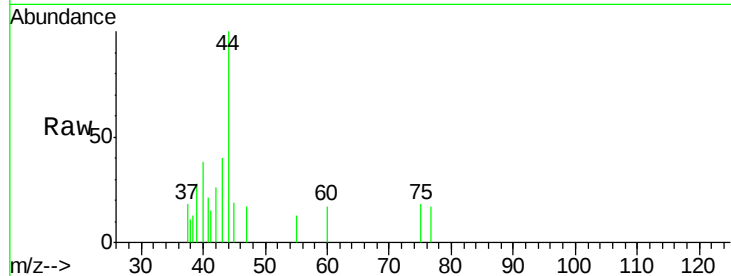


#54

cis-1,3-Dichloropropene
Concen: 3.23 ug/l
RT: 9.06 min Scan# 1389
Delta R.T. 0.01 min
Lab File: VX002769.D
Acq: 21 Jun 2018 04:18

Instrument :
MSVOA_X
ClientSampled :

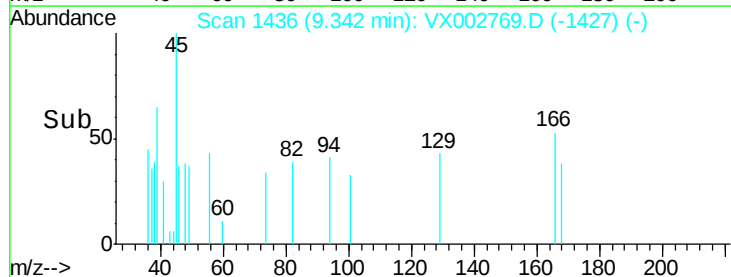
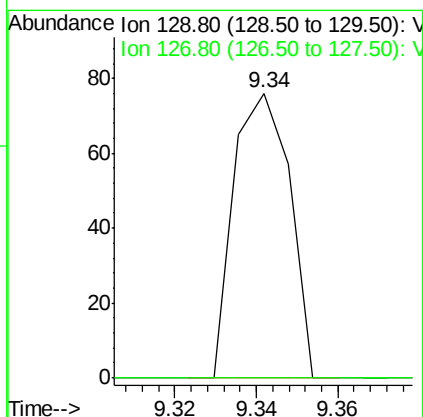
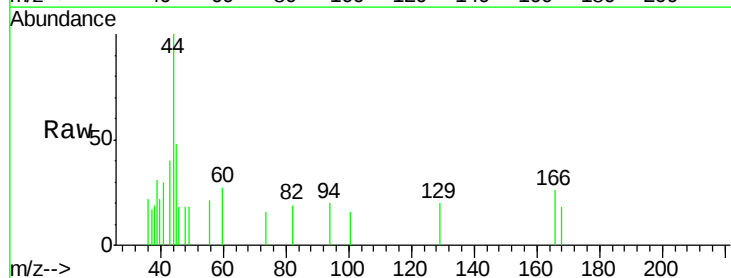
Tot Ion: 75 Resp: 73
Ion Ratio Lower Upper
75 100
77 91.5 24.8 37.2#
39 26.8 42.4 63.6#

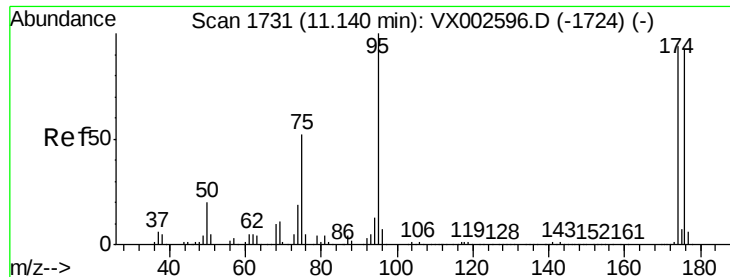


#60

Dibromochloromethane
Concen: 3.78 ug/l
RT: 9.34 min Scan# 1436
Delta R.T. -0.24 min
Lab File: VX002769.D
Acq: 21 Jun 2018 04:18

Tgt Ion: 129 Resp: 72
Ion Ratio Lower Upper
129 100
127 0.0 38.5 115.3#

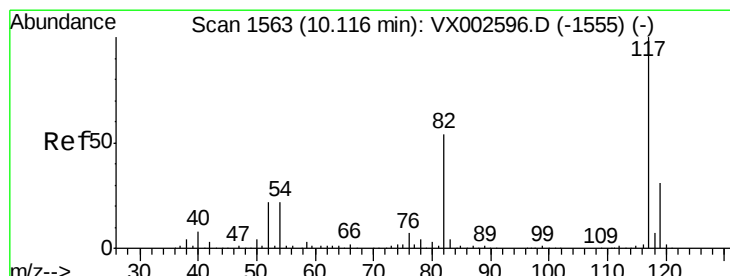
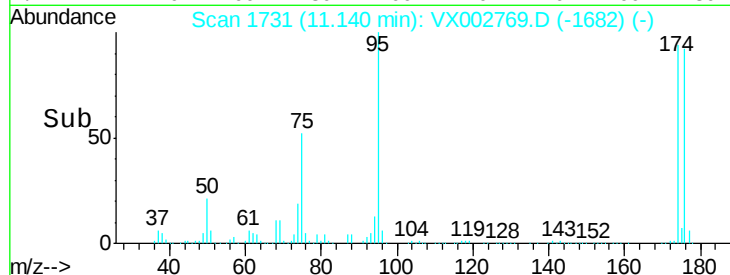
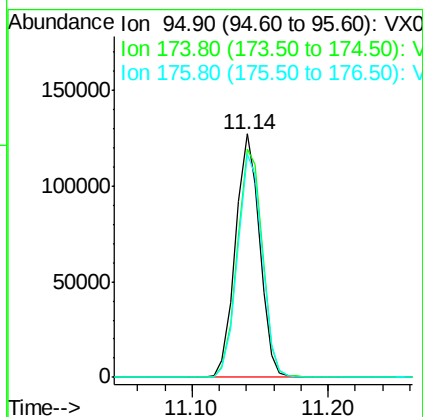
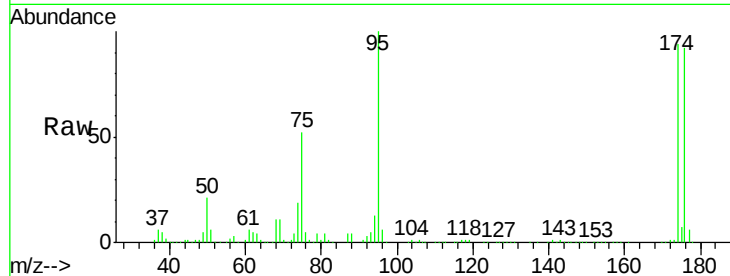




#62
4-Bromofluorobenzene
Concen: 43.21 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX002769.D
Acq: 21 Jun 2018 04:18

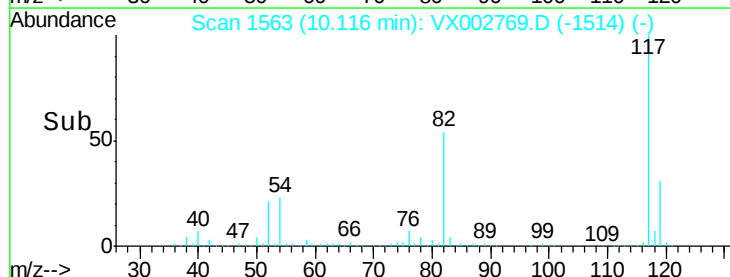
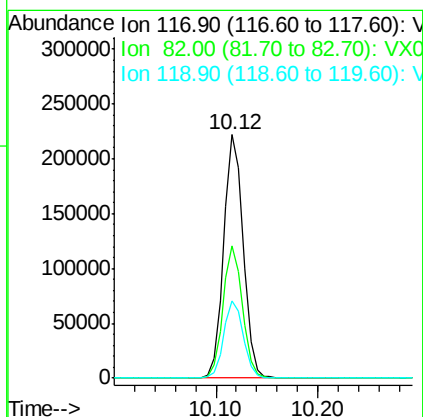
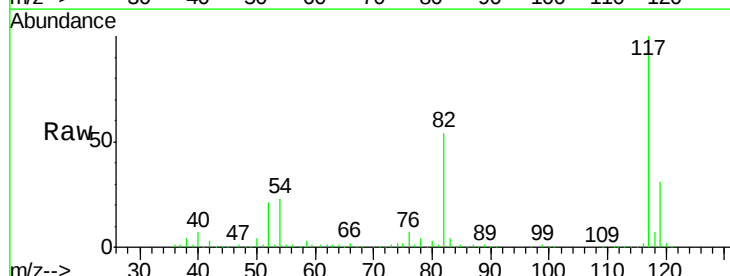
Instrument :
MSVOA_X
ClientSampleId :

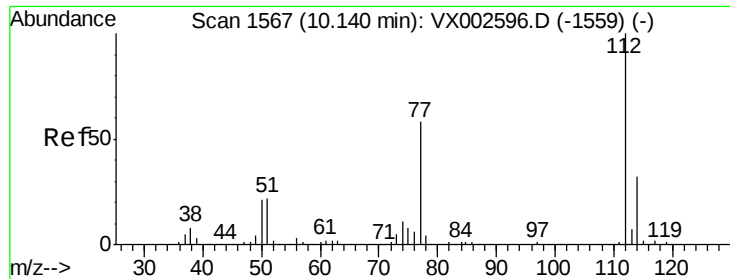
Tot Ion: 95 Resp: 157370
Ion Ratio Lower Upper
95 100
174 97.4 0.0 187.4
176 93.8 0.0 181.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX002769.D
Acq: 21 Jun 2018 04:18

Tgt Ion: 117 Resp: 295677
Ion Ratio Lower Upper
117 100
82 54.4 45.0 67.4
119 31.5 25.8 38.6





#65

Chlorobenzene

Concen: 0.53 ug/l

RT: 10.14 min Scan# 1567

Delta R.T. 0.00 min

Lab File: VX002769.D

Acq: 21 Jun 2018 04:18

Instrument :

MSVOA_X

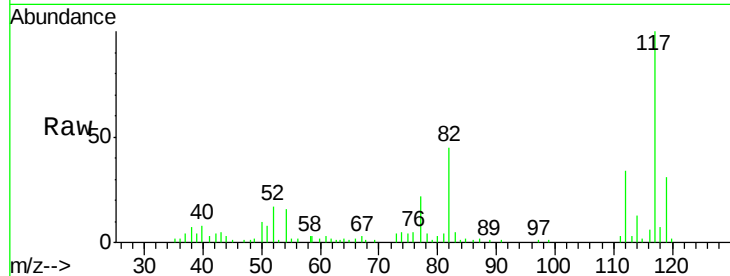
ClientSampleId :

Tot Ion:112 Resp: 3877

Ion Ratio Lower Upper

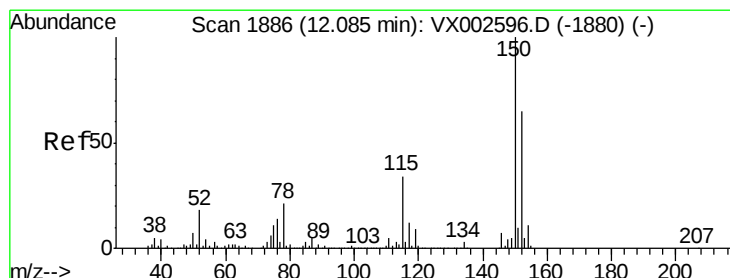
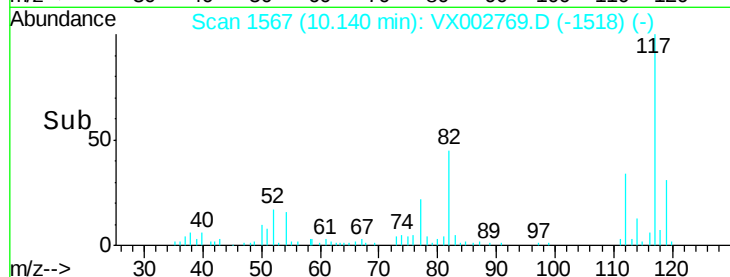
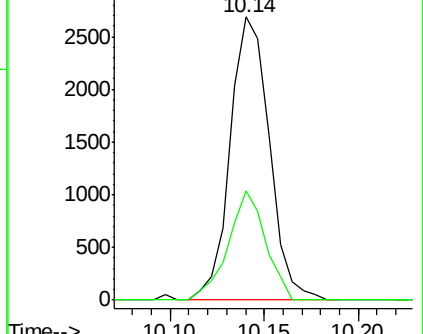
112 100

114 38.6 25.3 37.9#



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): 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: VX002769.D

Acq: 21 Jun 2018 04:18

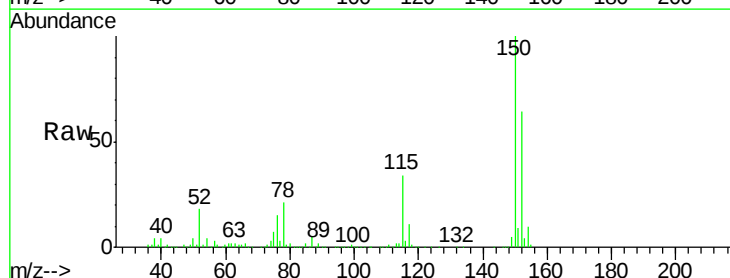
Tgt Ion:152 Resp: 166283

Ion Ratio Lower Upper

152 100

115 55.1 40.1 120.2

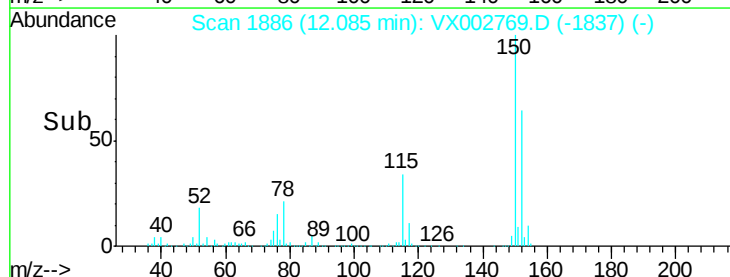
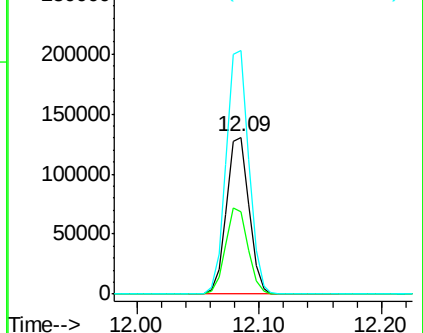
150 156.0 0.0 347.2

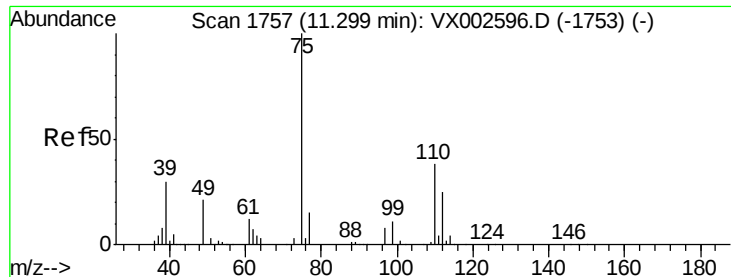


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

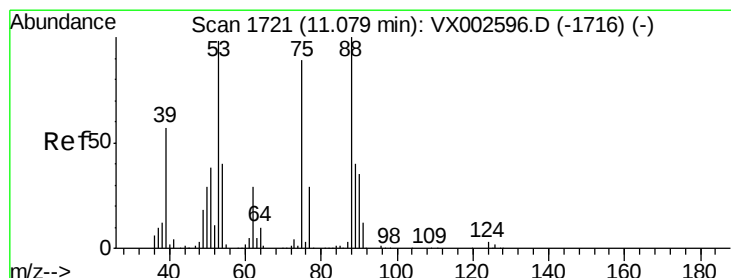
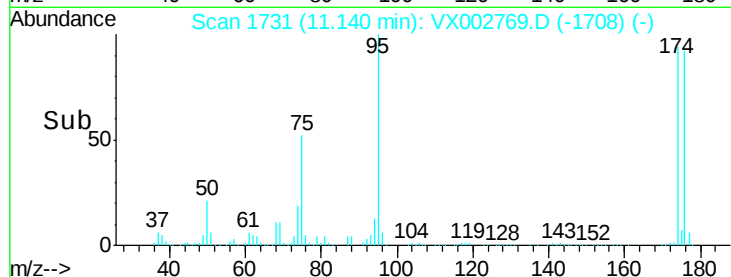
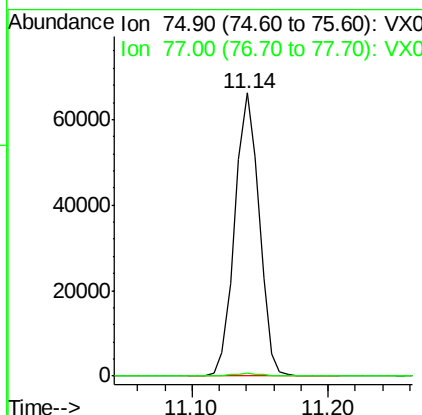
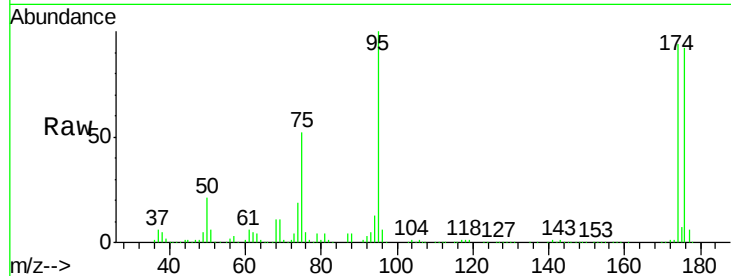




#76
 1,2,3-Trichloropropane
 Concen: 26.43 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX002769.D
 Acq: 21 Jun 2018 04:18

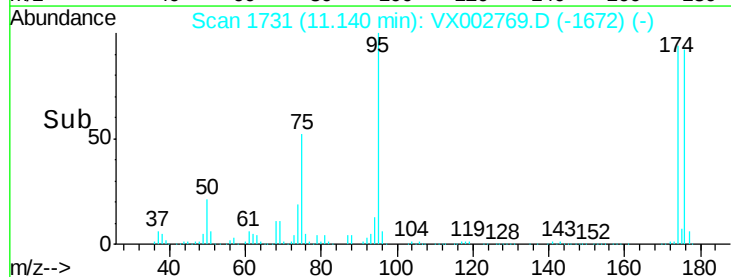
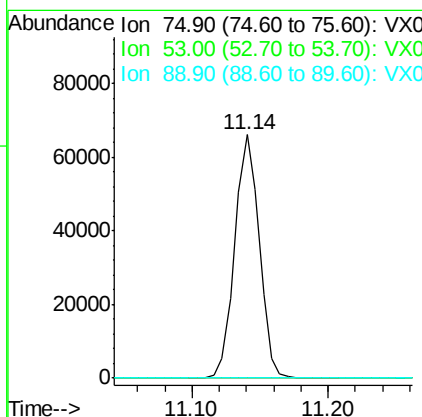
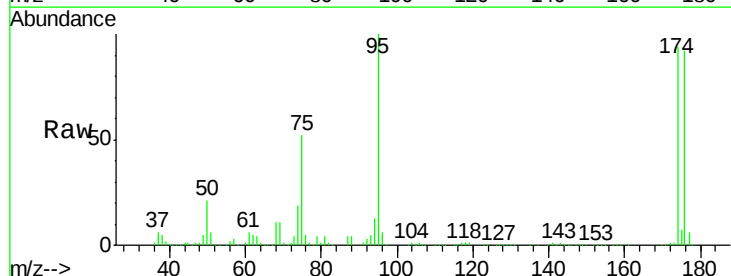
Instrument :
 MSVOA_X
 ClientSampled :

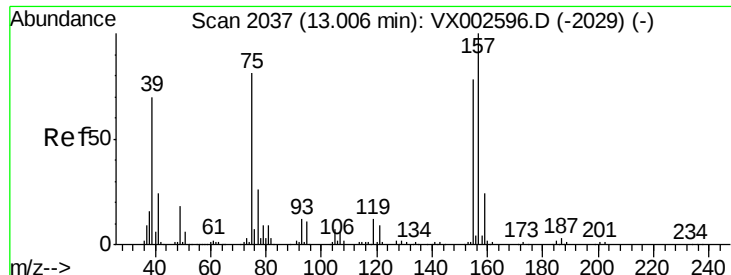
Tot Ion: 75 Resp: 82921
 Ion Ratio Lower Upper
 75 100
 77 1.2 22.8 68.3#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 81.67 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX002769.D
 Acq: 21 Jun 2018 04:18

Tgt Ion: 75 Resp: 82921
 Ion Ratio Lower Upper
 75 100
 53 0.2 86.8 130.2#
 89 0.0 38.2 57.2#





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.41 ug/l

RT: 12.99 min Scan# 2034

Delta R.T. -0.02 min

Lab File: VX002769.D

Acq: 21 Jun 2018 04:18

Instrument :

MSVOA_X

ClientSampleId :

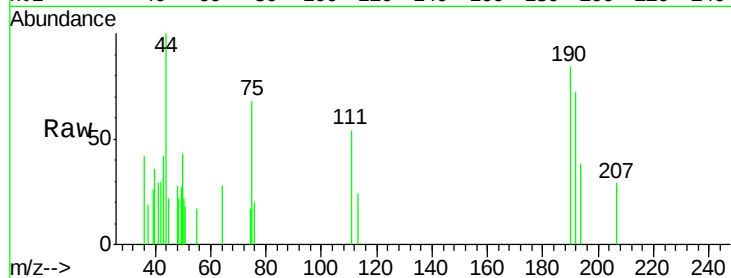
Tot Ion: 75 Resp: 281

Ion Ratio Lower Upper

75 100

155 0.0 45.8 137.4#

157 0.0 60.1 180.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

