

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062118\
 Data File : VX002798.D
 Acq On : 21 Jun 2018 19:35
 Operator : JC/MD
 Sample : J3603-12
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 22 01:13:01 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	231633	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	326292	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	308444	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	175289	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	161087	45.76	ug/l	0.00
Spiked Amount			Recovery	=	91.52%	
35) Dibromofluoromethane	5.51	113	126637	48.63	ug/l	0.00
Spiked Amount			Recovery	=	97.26%	
50) Toluene-d8	8.72	98	468097	47.34	ug/l	0.00
Spiked Amount			Recovery	=	94.68%	
62) 4-Bromofluorobenzene	11.14	95	163503	43.64	ug/l	0.00
Spiked Amount			Recovery	=	87.28%	

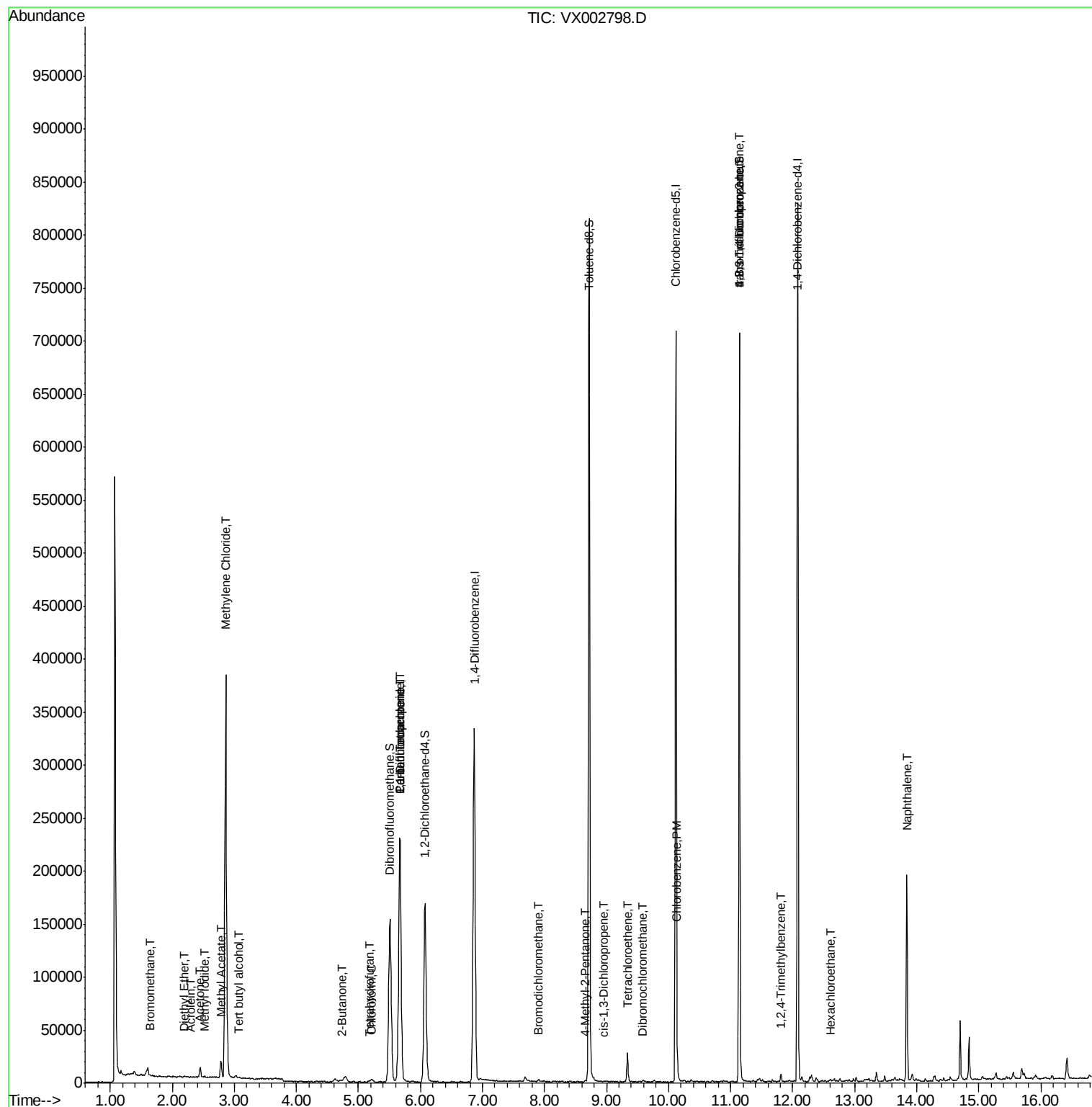
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	889	0.49	ug/l	91
8) Diethyl Ether	2.19	74	409	0.22	ug/l	89
10) Methyl Iodide	2.51	142	859	5.39	ug/l	90
11) Tert butyl alcohol	3.08	59	1127	1.55	ug/l #	86
13) Acrolein	2.29	56	274	7.64	ug/l #	14
16) Acetone	2.45	43	11245	7.24	ug/l	100
18) Methyl Acetate	2.78	43	19529	4.72	ug/l	96
20) Methylene Chloride	2.86	84	176290	55.36	ug/l	96
25) 2-Butanone	4.73	43	2000	0.98	ug/l	96
29) Tetrahydrofuran	5.18	42	1016	0.76	ug/l #	60
30) Chloroform	5.21	83	2259	0.46	ug/l	94
36) 1,1-Dichloropropene	5.67	75	15840	4.57	ug/l #	51
38) Carbon Tetrachloride	5.67	117	21900	6.35	ug/l #	17
47) Bromodichloromethane	7.91	83	1018	0.32	ug/l #	86
51) 4-Methyl-2-Pentanone	8.66	43	1242	0.30	ug/l	91
54) cis-1,3-Dichloropropene	8.95	75	20	3.22	ug/l #	63
60) Dibromochloromethane	9.58	129	382	3.88	ug/l	96
64) Tetrachloroethene	9.34	164	5551	1.62	ug/l	92
65) Chlorobenzene	10.14	112	2263	0.30	ug/l	93
76) 1,2,3-Trichloropropane	11.14	75	86880	26.27	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	86880	81.20	ug/l #	7
84) 1,2,4-Trimethylbenzene	11.81	105	2966	0.29	ug/l	97
90) Hexachloroethane	12.62	117	264	2.77	ug/l #	1
95) Naphthalene	13.84	128	116587	9.90	ug/l	99

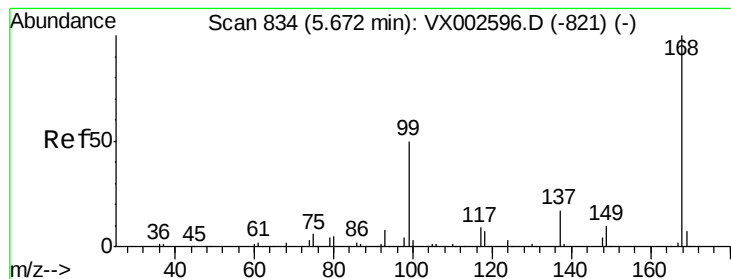
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : VX002798.D
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Instrument :
MSVOA_X
ClientSampled :

Quant Time: Jun 22 01:13:01 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X061518W.M
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# 834

Delta R.T. 0.00 min

Lab File: VX002798.D

Acq: 21 Jun 2018 19:35

Instrument :

MSVOA_X

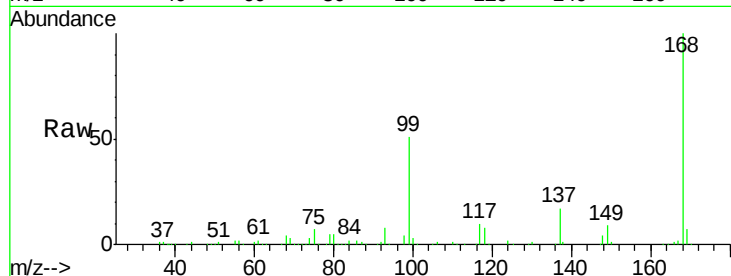
ClientSampled :

Tot Ion:168 Resp: 231633

Ion Ratio Lower Upper

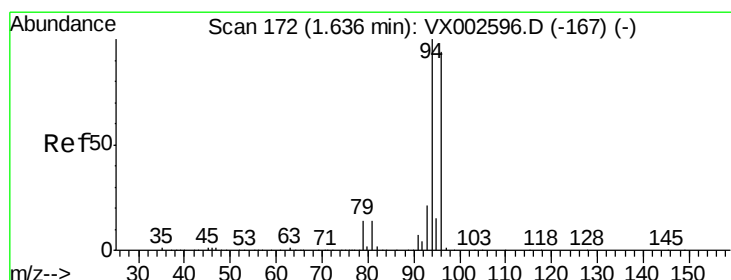
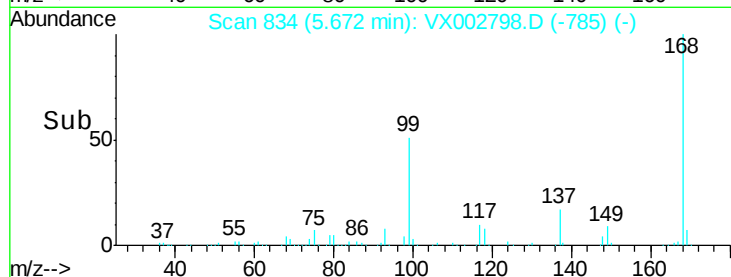
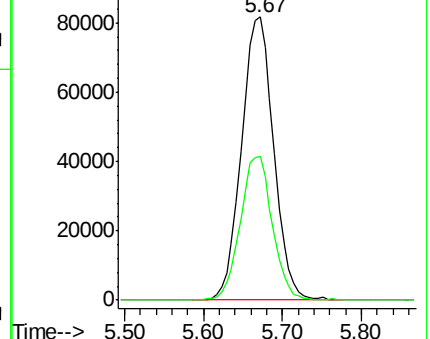
168 100

99 50.9 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: 0.49 ug/l

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX002798.D

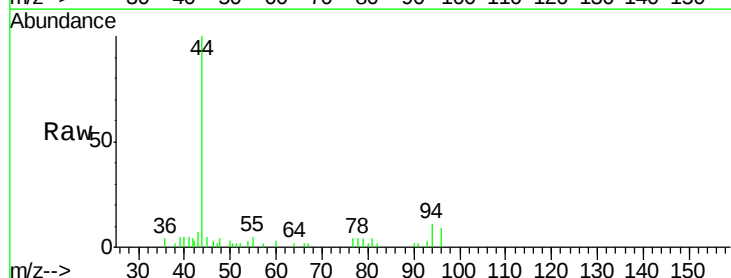
Acq: 21 Jun 2018 19:35

Tgt Ion: 94 Resp: 889

Ion Ratio Lower Upper

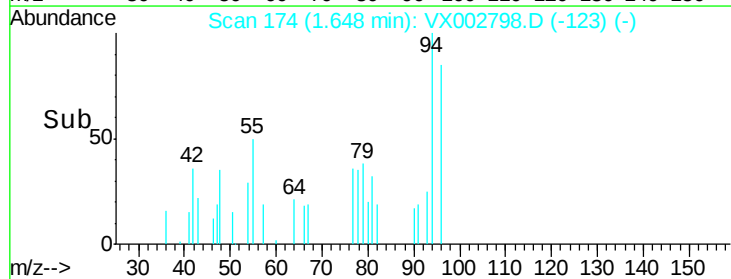
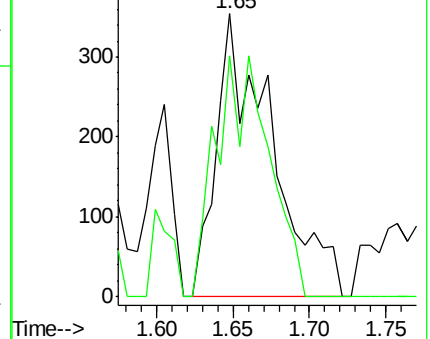
94 100

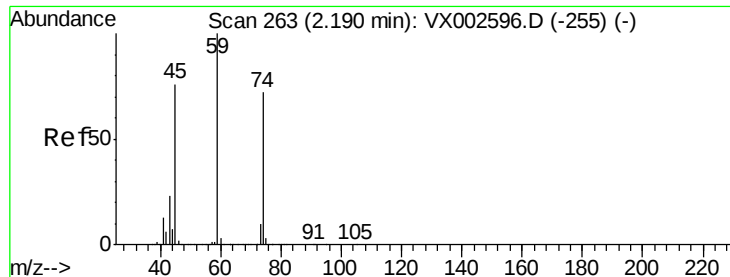
96 85.3 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#8

Diethyl Ether

Concen: 0.22 ug/l

RT: 2.19 min Scan# 263

Delta R.T. 0.00 min

Lab File: VX002798.D

Acq: 21 Jun 2018 19:35

Instrument :

MSVOA_X

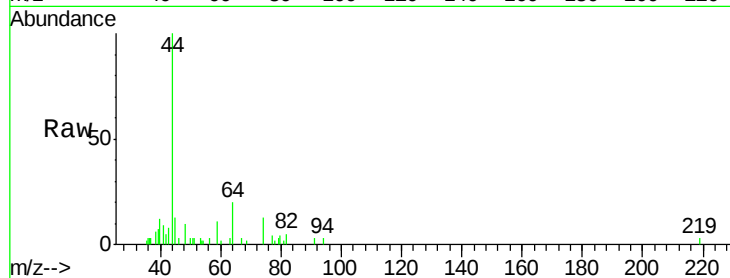
ClientSampleId :

Tot Ion: 74 Resp: 409

Ion Ratio Lower Upper

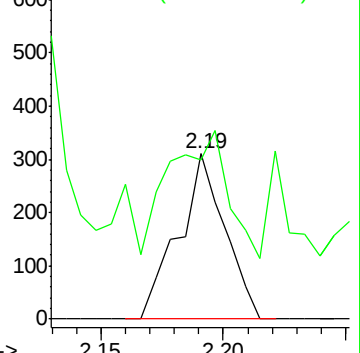
74 100

45 95.4 53.1 159.4

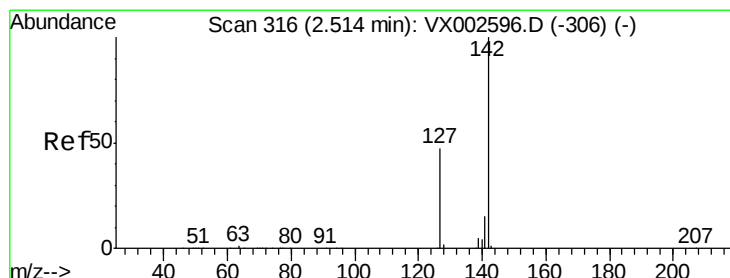
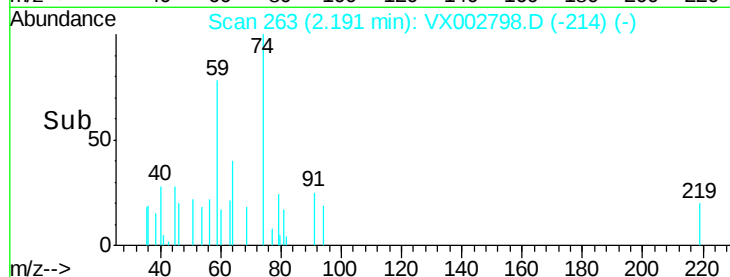


Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



Time-->



#10

Methyl Iodide

Concen: 5.39 ug/l

RT: 2.51 min Scan# 316

Delta R.T. 0.00 min

Lab File: VX002798.D

Acq: 21 Jun 2018 19:35

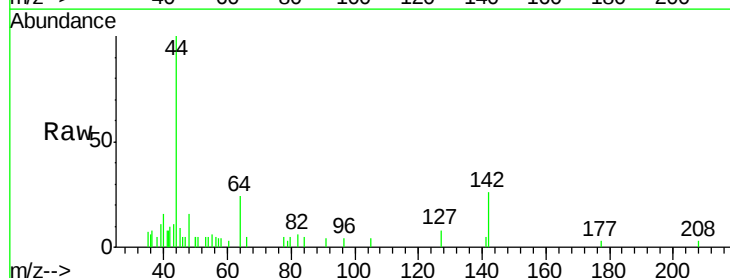
Tgt Ion: 142 Resp: 859

Ion Ratio Lower Upper

142 100

127 38.3 36.6 55.0

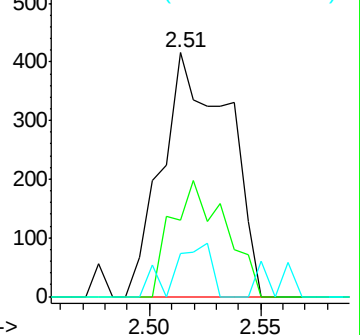
141 12.5 11.3 16.9



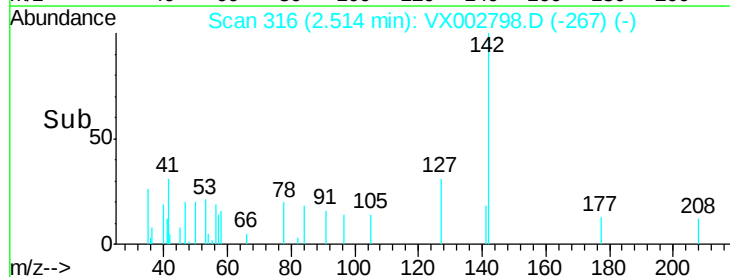
Abundance Ion 141.80 (141.50 to 142.50): V

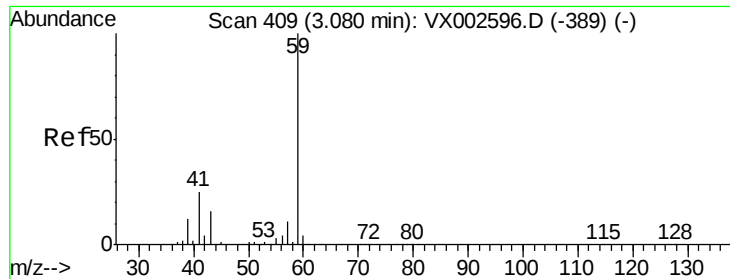
Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



Time-->



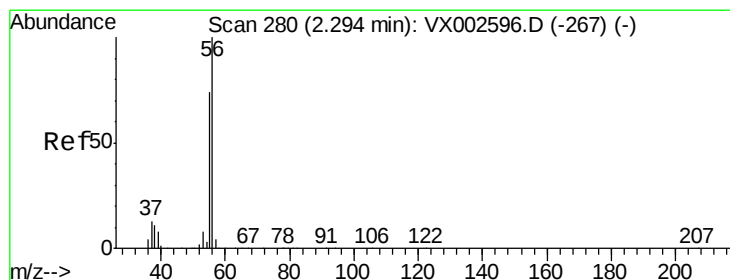
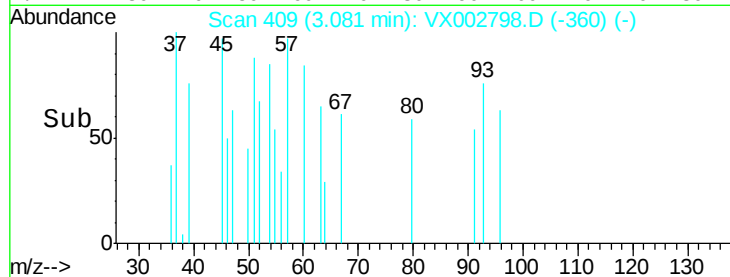
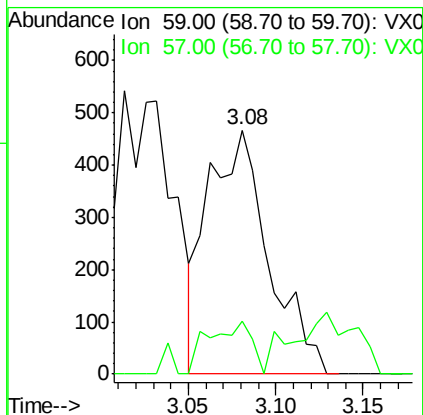
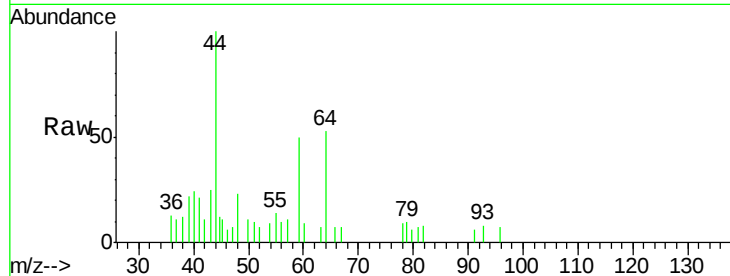


#11

Tert butyl alcohol
 Concen: 1.55 ug/l
 RT: 3.08 min Scan# 409
 Delta R.T. 0.00 min
 Lab File: VX002798.D
 Acq: 21 Jun 2018 19:35

Instrument :
 MSVOA_X
 ClientSampled :

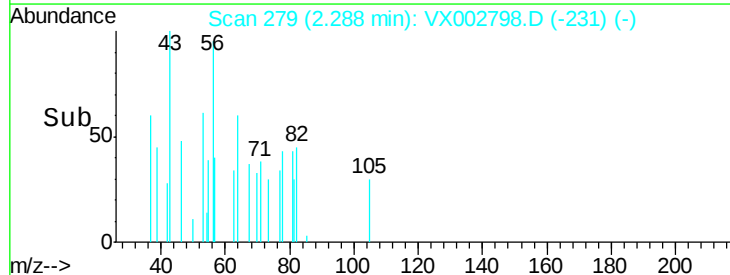
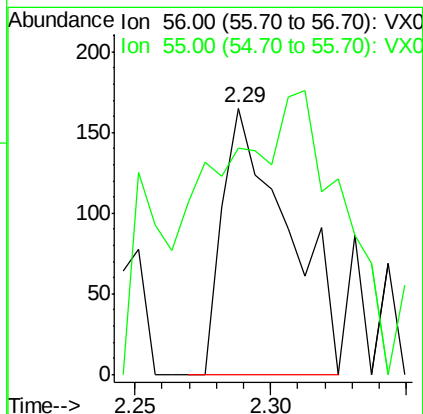
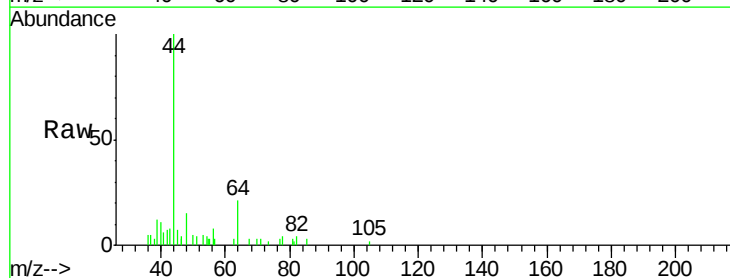
Tot Ion: 59 Resp: 1127
 Ion Ratio Lower Upper
 59 100
 57 15.4 8.2 12.2#

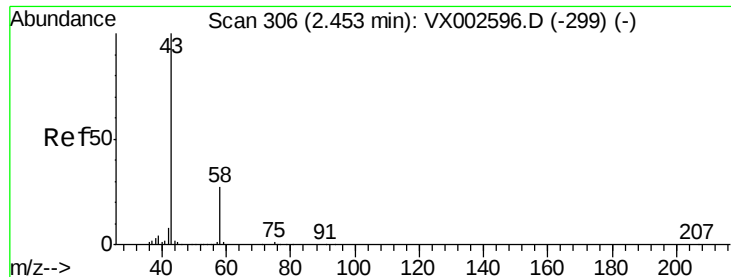


#13

Acrolein
 Concen: 7.64 ug/l
 RT: 2.29 min Scan# 279
 Delta R.T. -0.01 min
 Lab File: VX002798.D
 Acq: 21 Jun 2018 19:35

Tgt Ion: 56 Resp: 274
 Ion Ratio Lower Upper
 56 100
 55 0.0 57.0 85.4#





#16

Acetone

Concen: 7.24 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002798.D

Acq: 21 Jun 2018 19:35

Instrument :

MSVOA_X

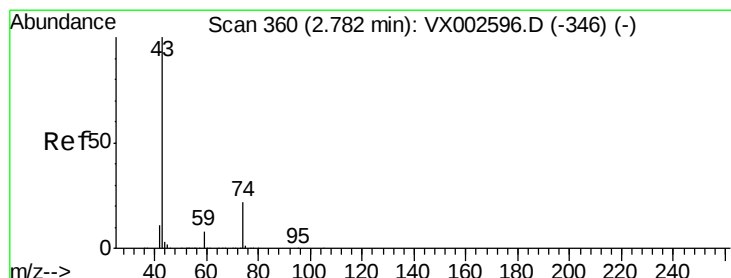
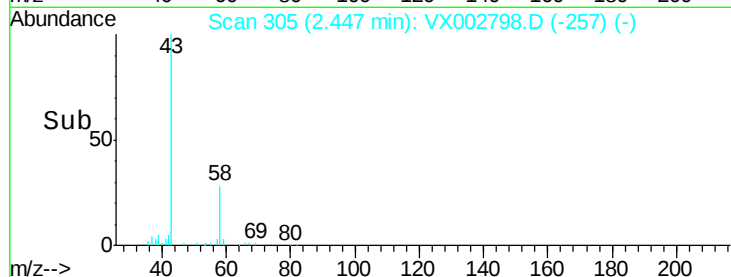
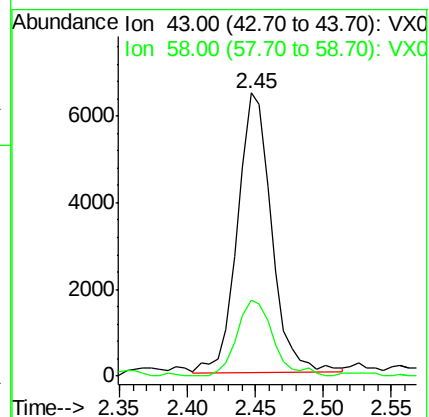
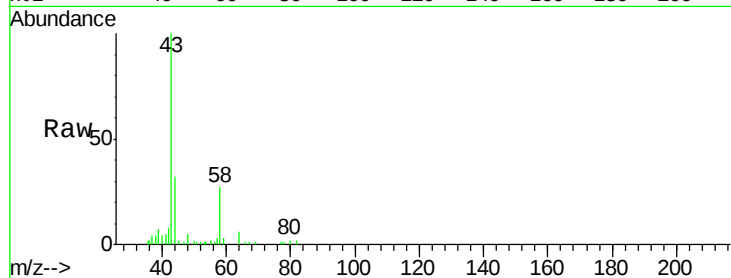
ClientSampleId :

Tot Ion: 43 Resp: 11245

Ion Ratio Lower Upper

43 100

58 27.4 22.1 33.1



#18

Methyl Acetate

Concen: 4.72 ug/l

RT: 2.78 min Scan# 360

Delta R.T. 0.00 min

Lab File: VX002798.D

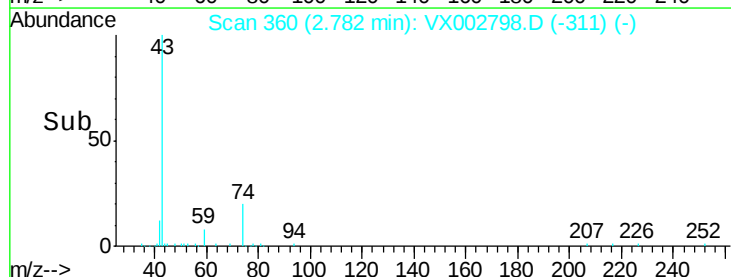
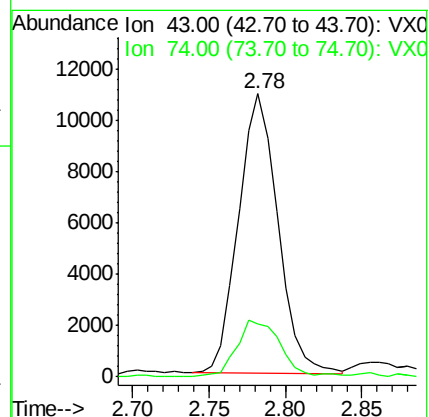
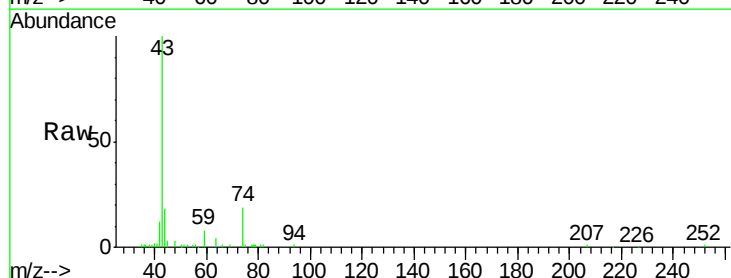
Acq: 21 Jun 2018 19:35

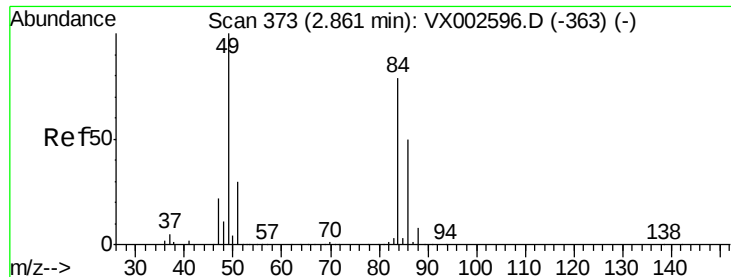
Tgt Ion: 43 Resp: 19529

Ion Ratio Lower Upper

43 100

74 22.7 16.7 25.1

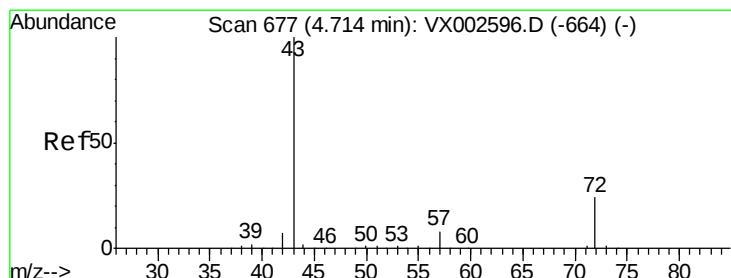
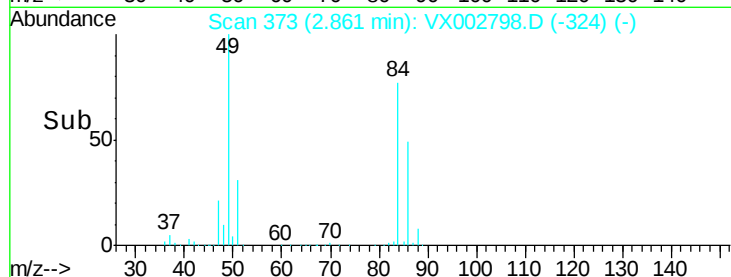
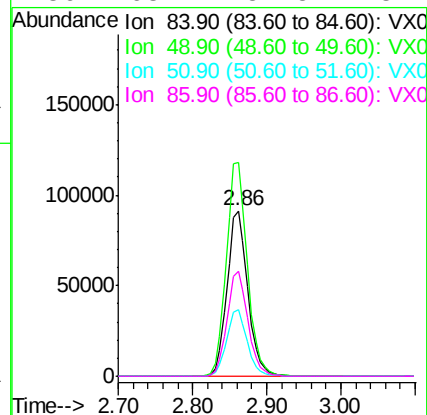
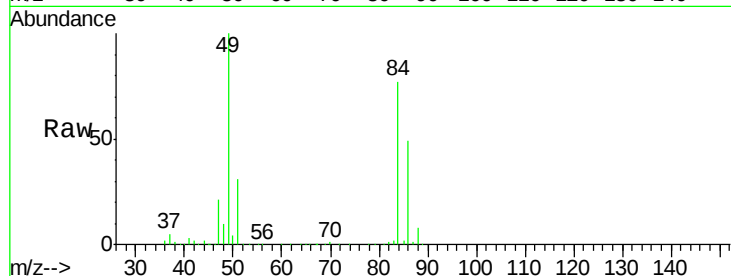




#20
Methylene Chloride
Concen: 55.36 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX002798.D
Acq: 21 Jun 2018 19:35

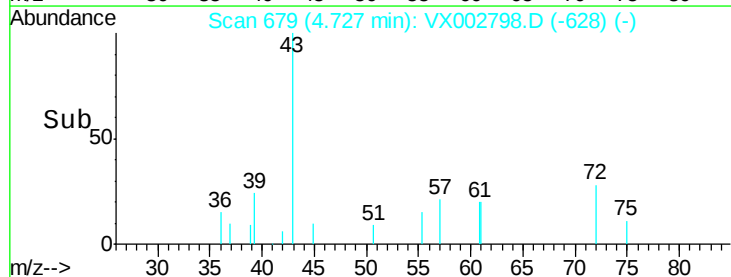
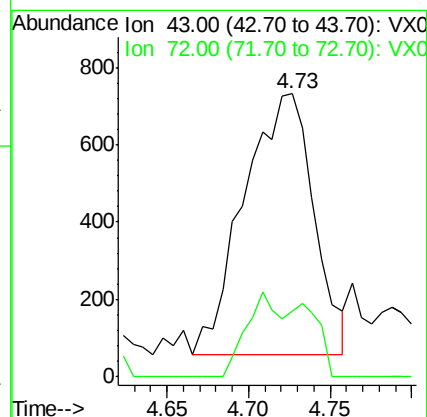
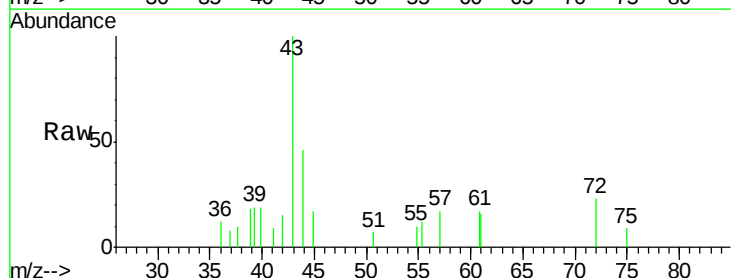
Instrument :
MSVOA_X
ClientSampleId :

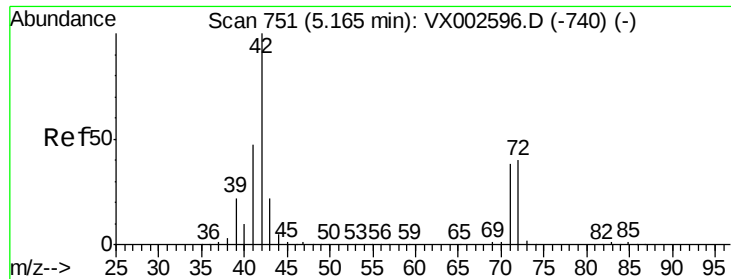
Tot Ion: 84 Resp: 176290
Ion Ratio Lower Upper
84 100
49 129.1 107.8 161.6
51 39.9 32.8 49.2
86 63.4 52.5 78.7



#25
2-Butanone
Concen: 0.98 ug/l
RT: 4.73 min Scan# 679
Delta R.T. 0.01 min
Lab File: VX002798.D
Acq: 21 Jun 2018 19:35

Tgt Ion: 43 Resp: 2000
Ion Ratio Lower Upper
43 100
72 25.3 18.5 27.7

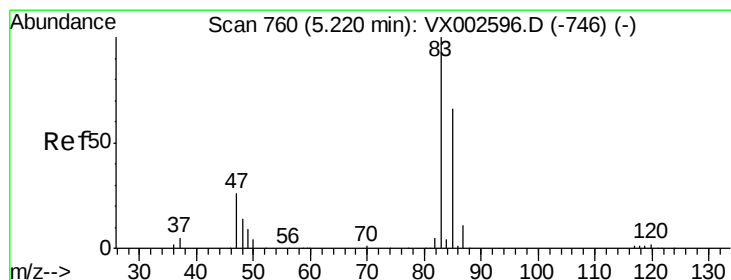
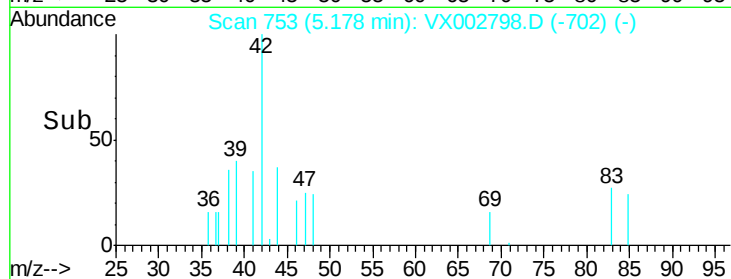
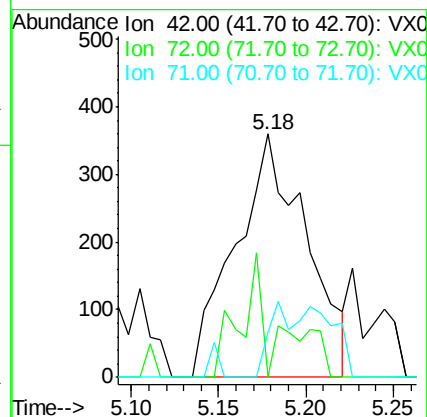
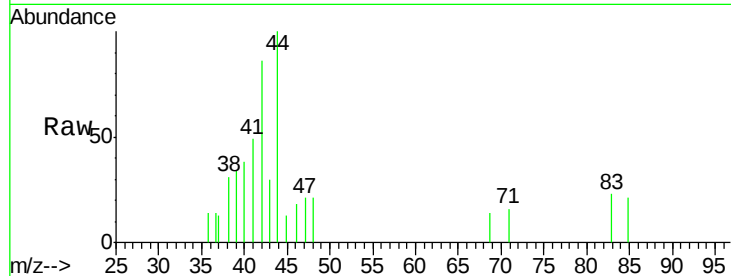




#29
Tetrahydrofuran
Concen: 0.76 ug/l
RT: 5.18 min Scan# 753
Delta R.T. 0.01 min
Lab File: VX002798.D
Acq: 21 Jun 2018 19:35

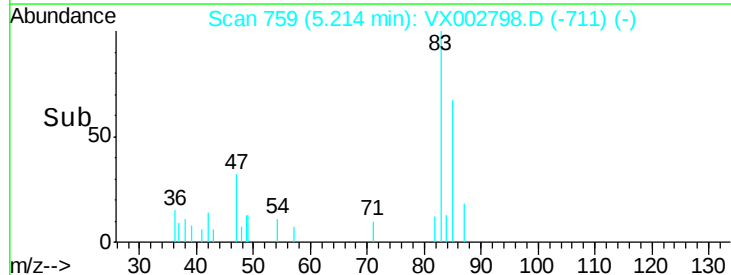
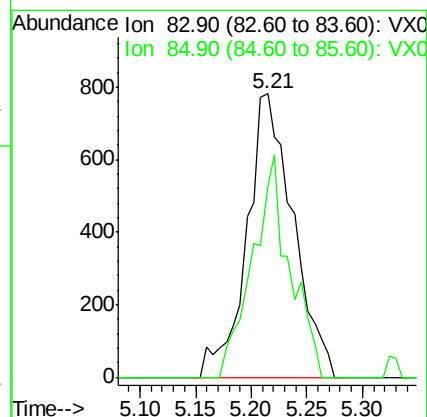
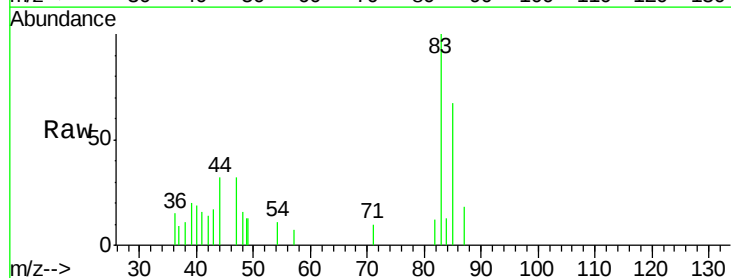
Instrument :
MSVOA_X
ClientSampled :

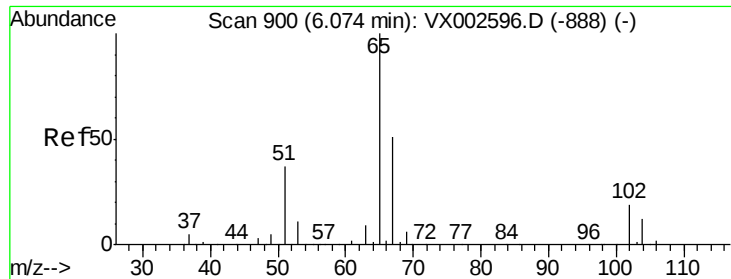
Tot Ion: 42 Resp: 1016
Ion Ratio Lower Upper
42 100
72 20.1 32.0 48.0#
71 9.0 30.1 45.1#



#30
Chloroform
Concen: 0.46 ug/l
RT: 5.21 min Scan# 759
Delta R.T. -0.01 min
Lab File: VX002798.D
Acq: 21 Jun 2018 19:35

Tgt Ion: 83 Resp: 2259
Ion Ratio Lower Upper
83 100
85 67.3 50.4 75.6

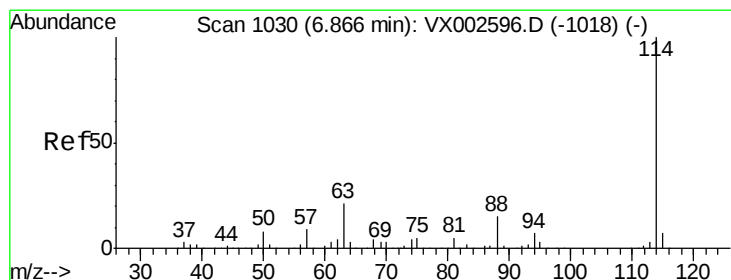
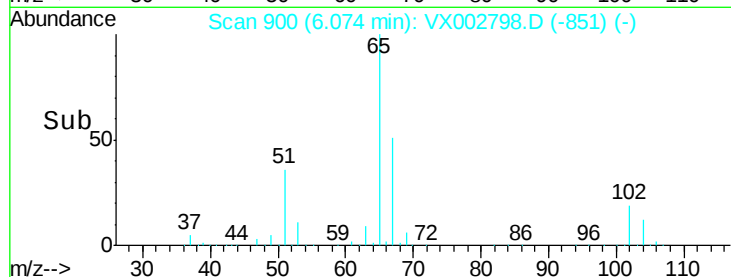
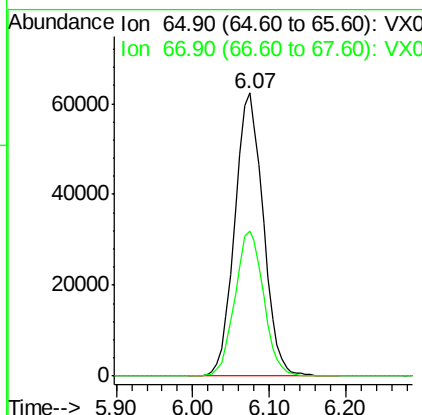
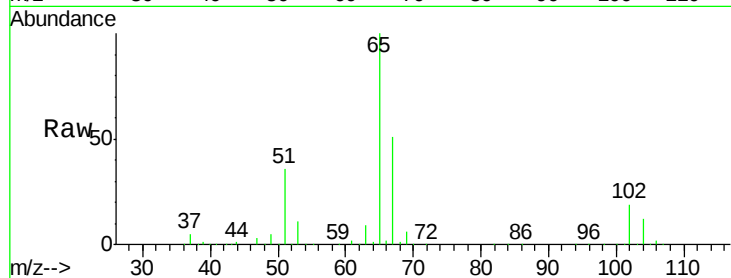




#33
 1,2-Dichloroethane-d4
 Concen: 45.76 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.00 min
 Lab File: VX002798.D
 Acq: 21 Jun 2018 19:35

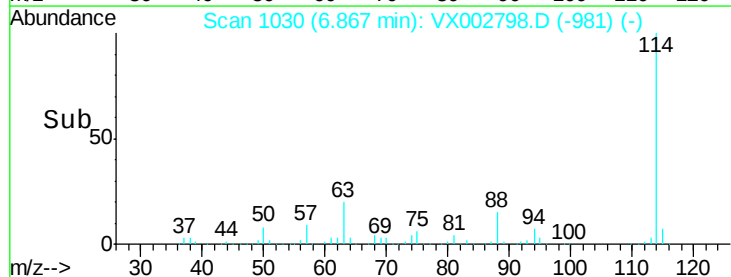
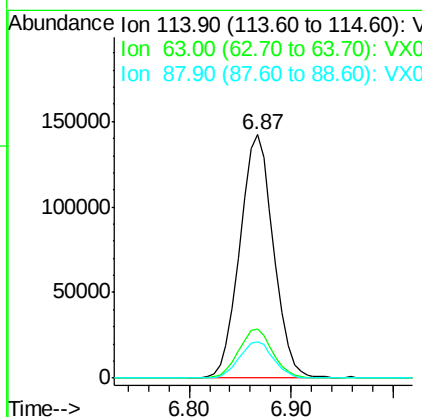
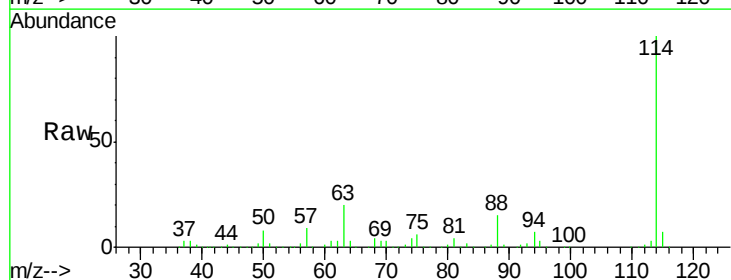
Instrument :
 MSVOA_X
 ClientSampleId :

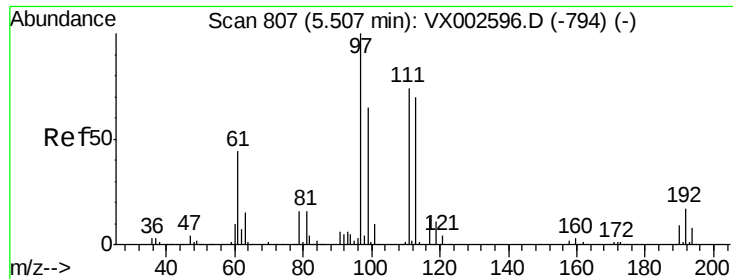
Tot Ion: 65 Resp: 161087
 Ion Ratio Lower Upper
 65 100
 67 51.7 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX002798.D
 Acq: 21 Jun 2018 19:35

Tgt Ion: 114 Resp: 326292
 Ion Ratio Lower Upper
 114 100
 63 20.3 0.0 41.4
 88 14.6 0.0 30.0

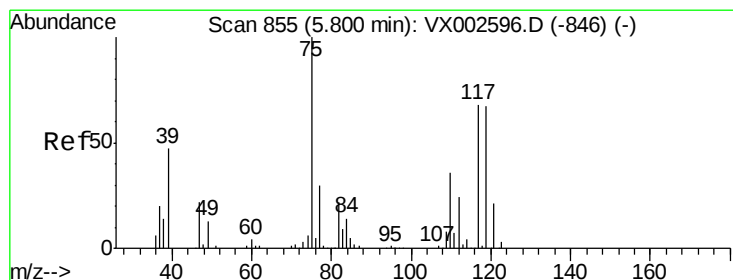
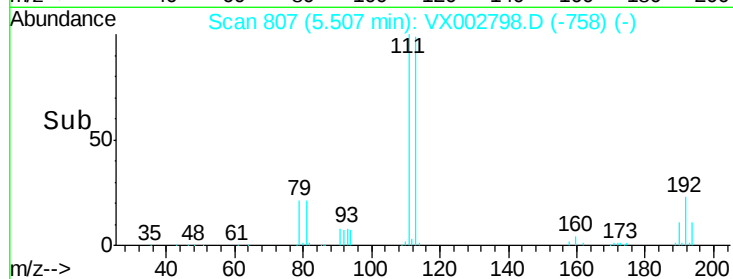
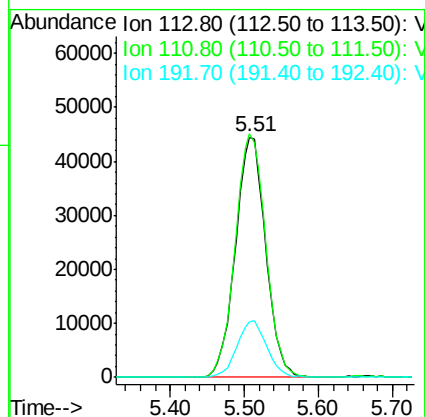
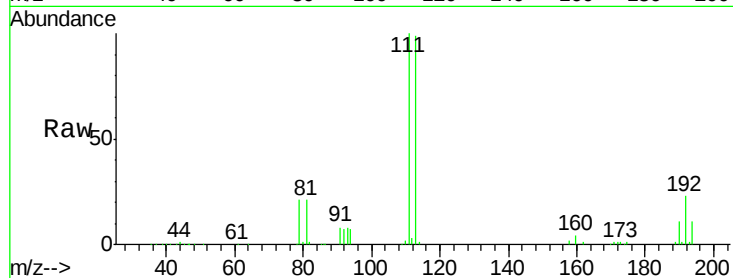




#35
 Dibromofluoromethane
 Concen: 48.63 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. 0.00 min
 Lab File: VX002798.D
 Acq: 21 Jun 2018 19:35

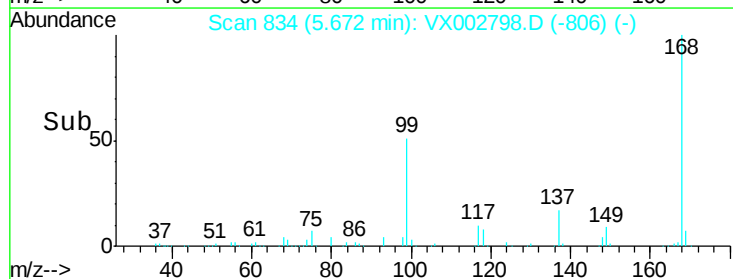
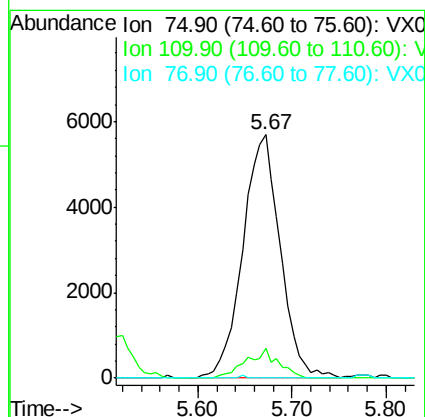
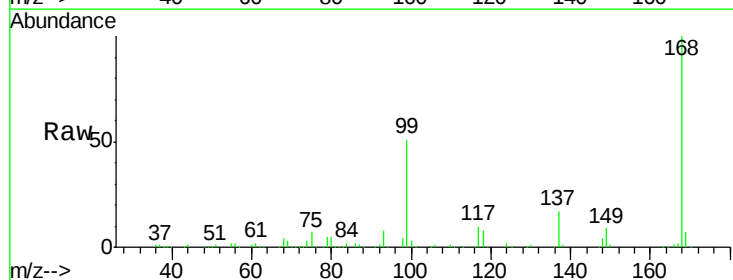
Instrument :
 MSVOA_X
 ClientSampled :

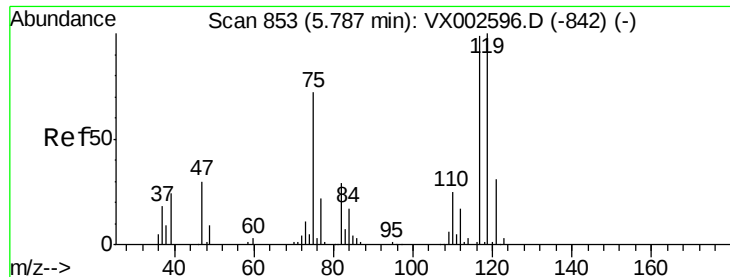
Tot Ion:113 Resp: 126637
 Ion Ratio Lower Upper
 113 100
 111 102.3 81.4 122.0
 192 23.2 19.1 28.7



#36
 1,1-Dichloropropene
 Concen: 4.57 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.13 min
 Lab File: VX002798.D
 Acq: 21 Jun 2018 19:35

Tgt Ion: 75 Resp: 15840
 Ion Ratio Lower Upper
 75 100
 110 10.4 18.1 54.4#
 77 0.0 24.3 36.5#





#38

Carbon Tetrachloride

Concen: 6.35 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX002798.D

Acq: 21 Jun 2018 19:35

Instrument :

MSVOA_X

ClientSampled :

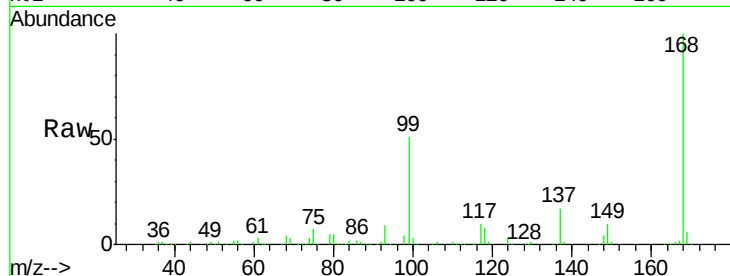
Tot Ion:117 Resp: 21900

Ion Ratio Lower Upper

117 100

119 6.6 77.4 116.0#

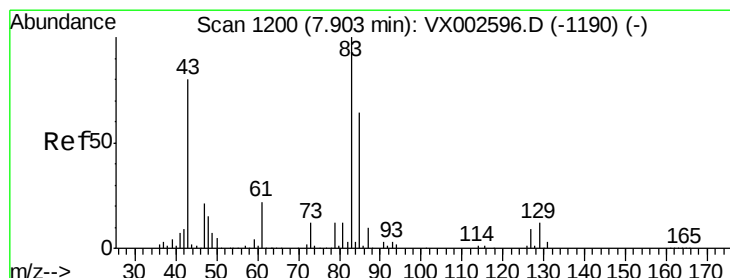
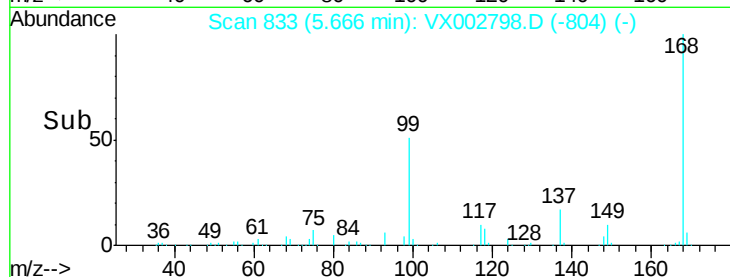
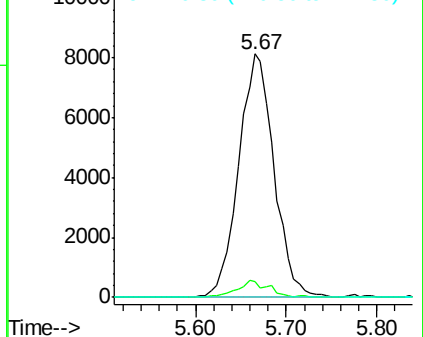
121 0.0 24.4 36.6#



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



#47

Bromodichloromethane

Concen: 0.32 ug/l

RT: 7.91 min Scan# 1201

Delta R.T. 0.01 min

Lab File: VX002798.D

Acq: 21 Jun 2018 19:35

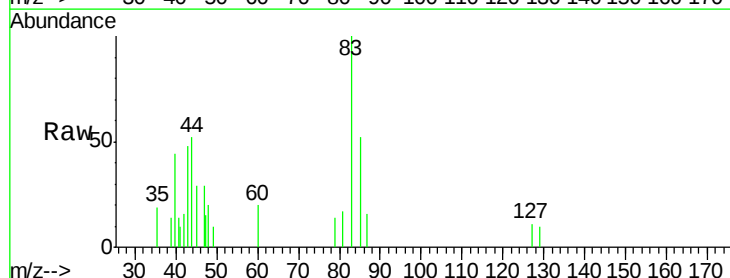
Tgt Ion: 83 Resp: 1018

Ion Ratio Lower Upper

83 100

85 51.5 50.3 75.5

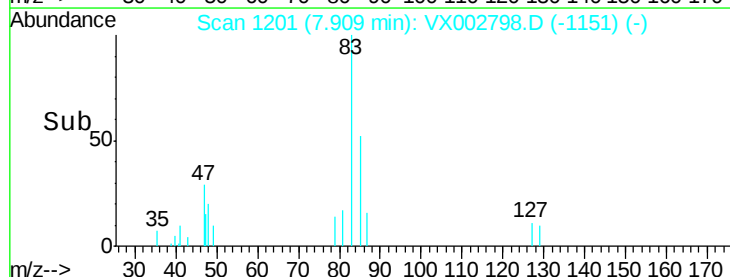
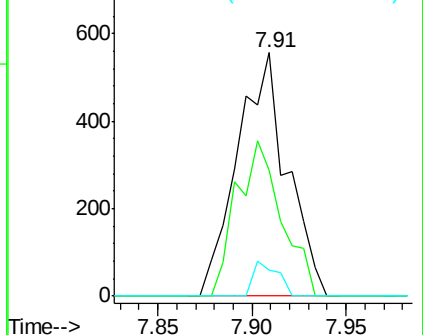
127 10.8 7.0 10.4#

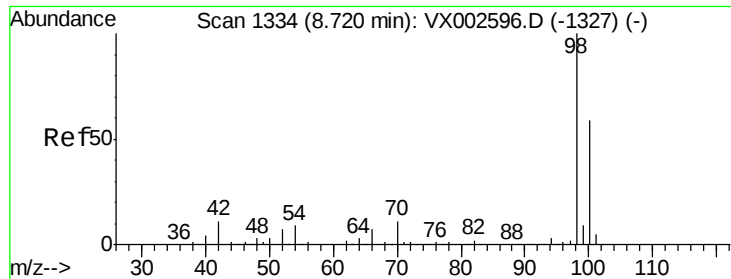


Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 126.80 (126.50 to 127.50): V

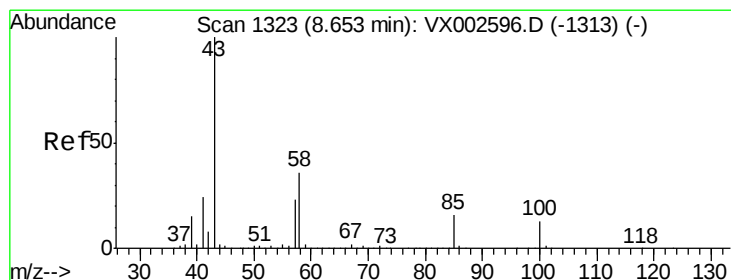
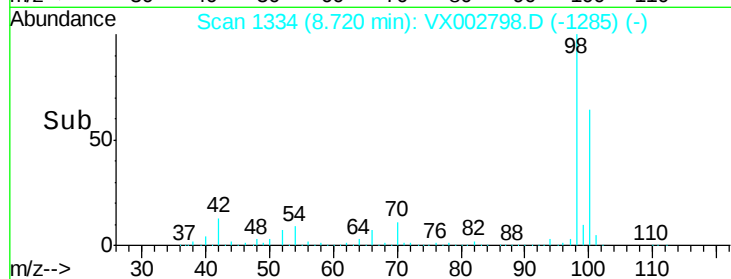
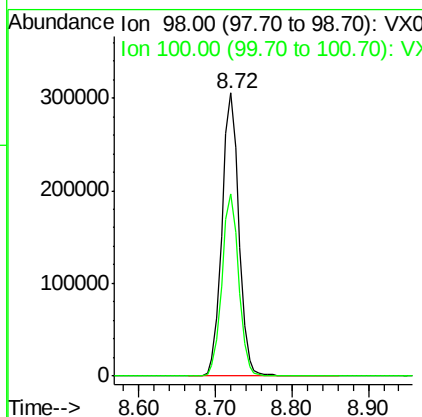
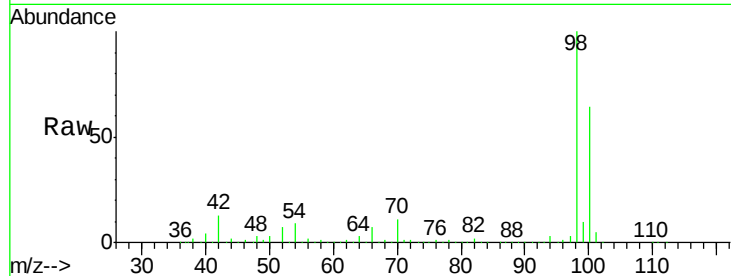




#50
Toluene-d8
Concen: 47.34 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002798.D
Acq: 21 Jun 2018 19:35

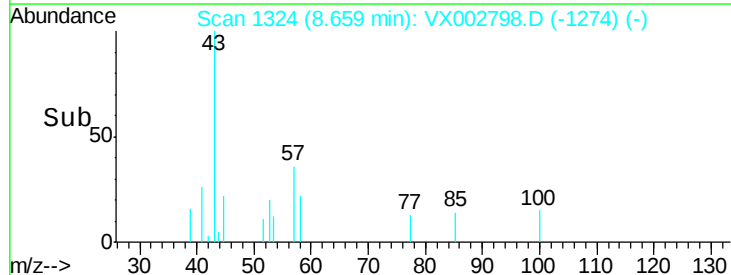
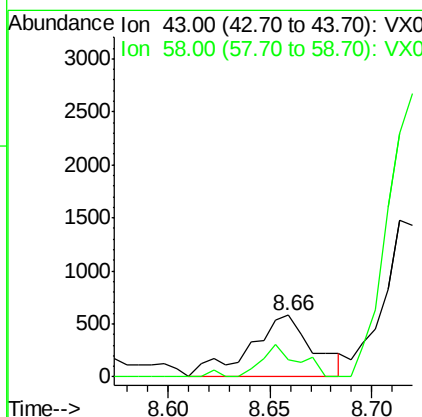
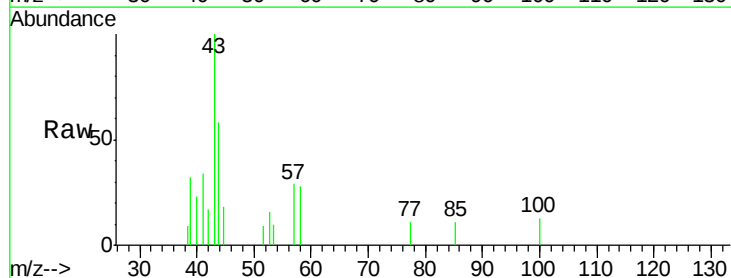
Instrument :
MSVOA_X
ClientSampled :

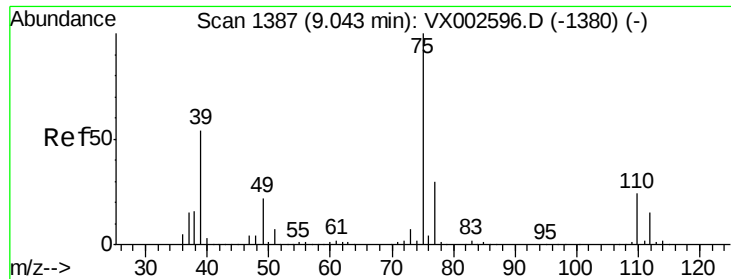
Tot Ion: 98 Resp: 468097
Ion Ratio Lower Upper
98 100
100 64.1 50.9 76.3



#51
4-Methyl-2-Pentanone
Concen: 0.30 ug/l
RT: 8.66 min Scan# 1324
Delta R.T. 0.01 min
Lab File: VX002798.D
Acq: 21 Jun 2018 19:35

Tgt Ion: 43 Resp: 1242
Ion Ratio Lower Upper
43 100
58 30.7 28.6 42.8



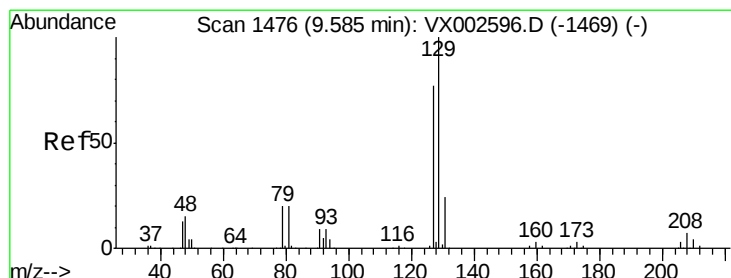
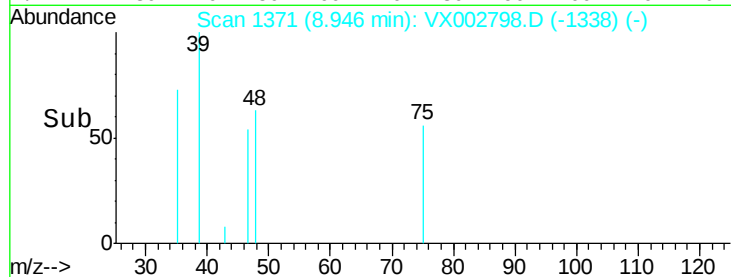
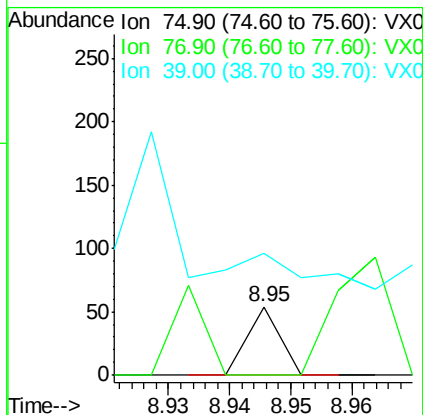
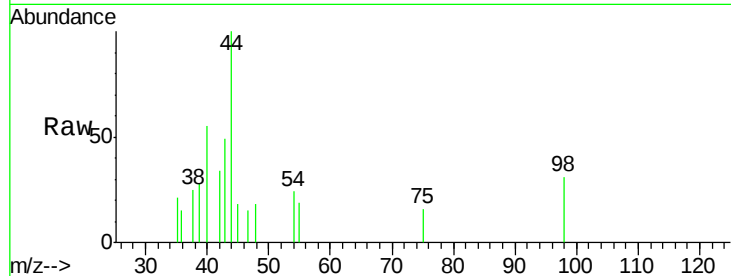


#54

cis-1,3-Dichloropropene
Concen: 3.22 ug/l
RT: 8.95 min Scan# 1371
Delta R.T. -0.10 min
Lab File: VX002798.D
Acq: 21 Jun 2018 19:35

Instrument :
MSVOA_X
ClientSampled :

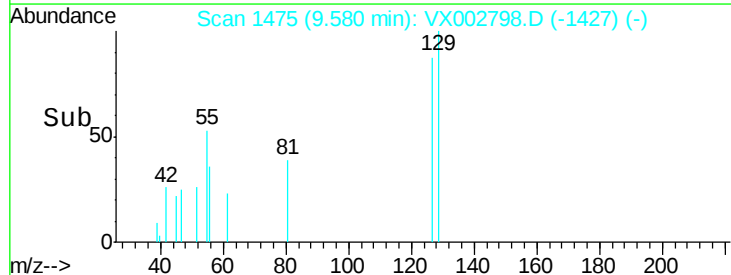
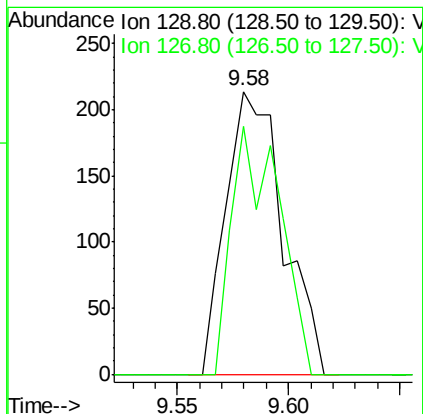
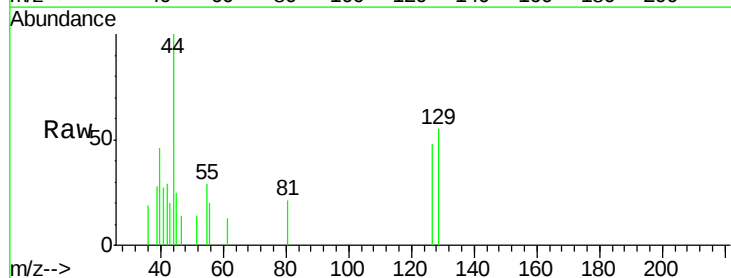
Tot Ion: 75 Resp: 20
Ion Ratio Lower Upper
75 100
77 0.0 24.8 37.2#
39 35.2 42.4 63.6#

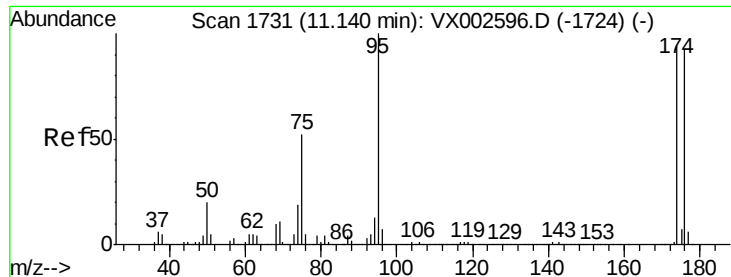


#60

Dibromochloromethane
Concen: 3.88 ug/l
RT: 9.58 min Scan# 1475
Delta R.T. -0.01 min
Lab File: VX002798.D
Acq: 21 Jun 2018 19:35

Tgt Ion: 129 Resp: 382
Ion Ratio Lower Upper
129 100
127 73.8 38.5 115.3

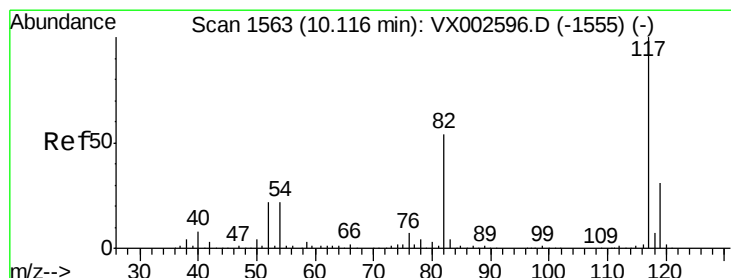
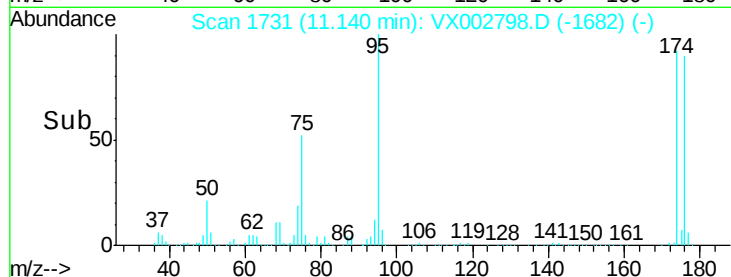
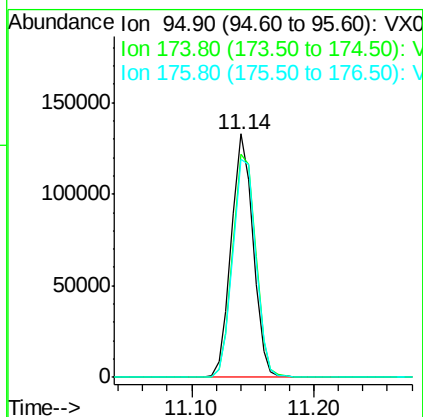
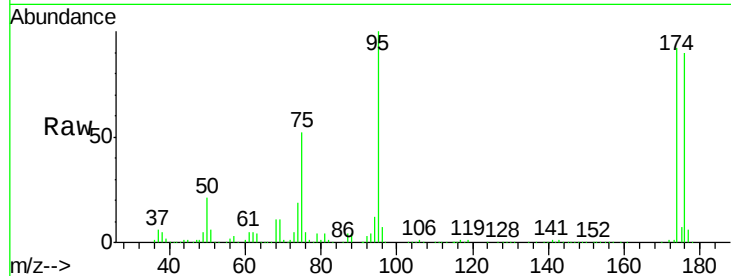




#62
4-Bromofluorobenzene
Concen: 43.64 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX002798.D
Acq: 21 Jun 2018 19:35

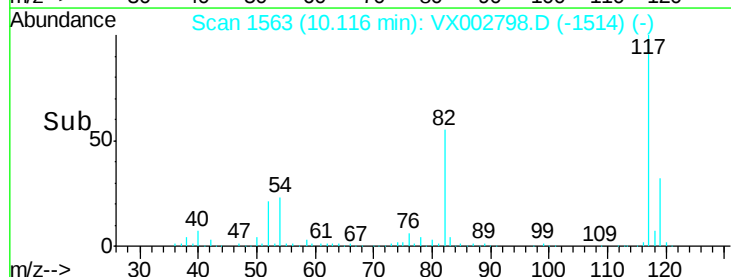
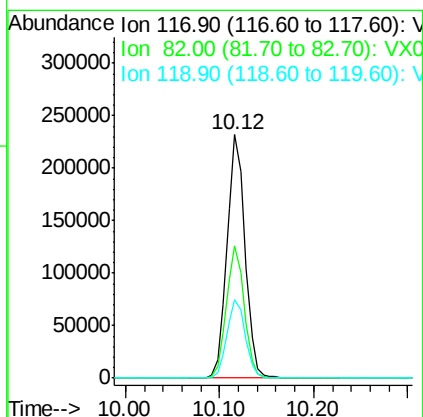
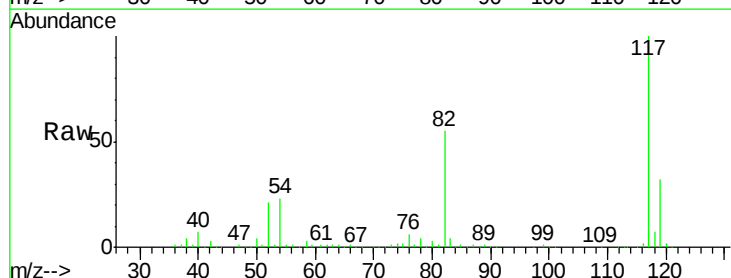
Instrument :
MSVOA_X
ClientSampleId :

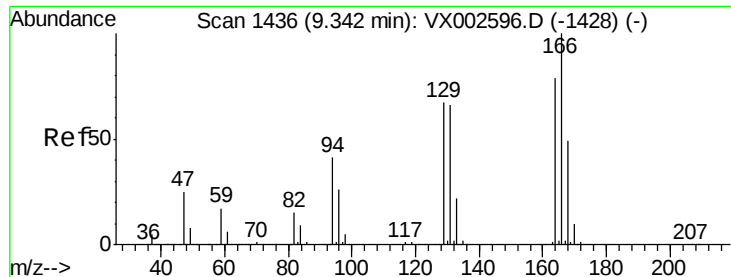
Tot Ion: 95 Resp: 163503
Ion Ratio Lower Upper
95 100
174 97.4 0.0 187.4
176 95.1 0.0 181.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX002798.D
Acq: 21 Jun 2018 19:35

Tgt Ion: 117 Resp: 308444
Ion Ratio Lower Upper
117 100
82 54.5 45.0 67.4
119 32.2 25.8 38.6





#64

Tetrachloroethene

Concen: 1.62 ug/l

RT: 9.34 min Scan# 1435

Delta R.T. -0.01 min

Lab File: VX002798.D

Acq: 21 Jun 2018 19:35

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion:164 Resp: 5551

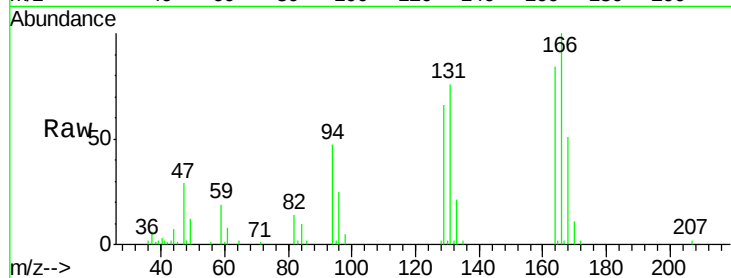
Ion Ratio Lower Upper

164 100

166 119.2 102.9 154.3

129 78.2 68.6 102.8

131 90.0 66.8 100.2

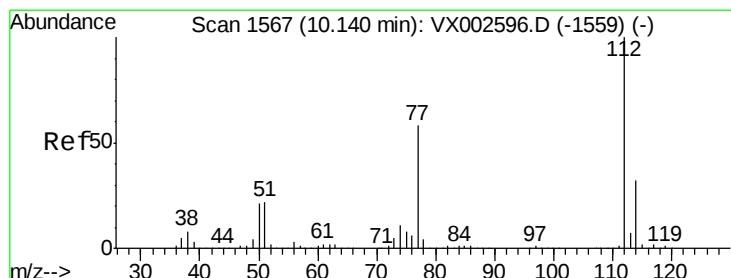
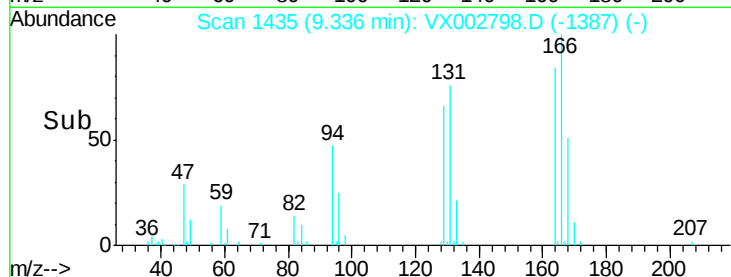
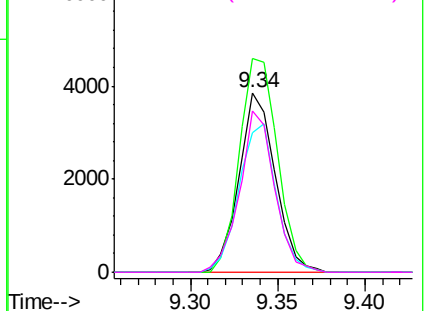


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#65

Chlorobenzene

Concen: 0.30 ug/l

RT: 10.14 min Scan# 1567

Delta R.T. 0.00 min

Lab File: VX002798.D

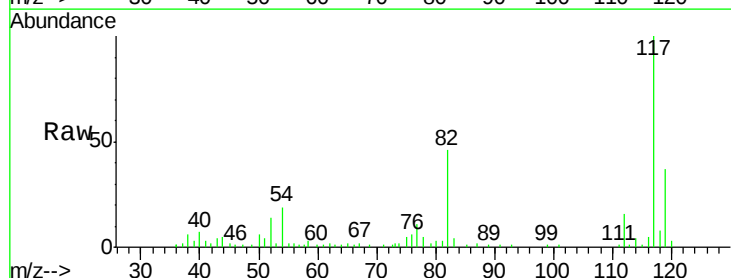
Acq: 21 Jun 2018 19:35

Tgt Ion:112 Resp: 2263

Ion Ratio Lower Upper

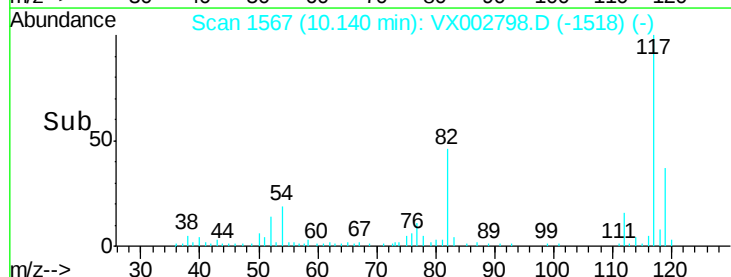
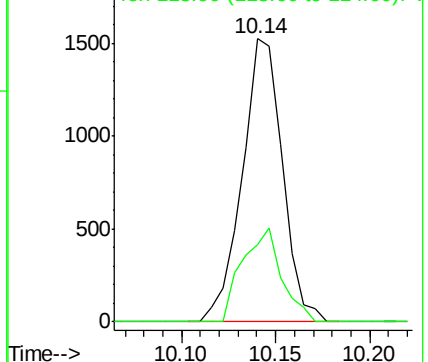
112 100

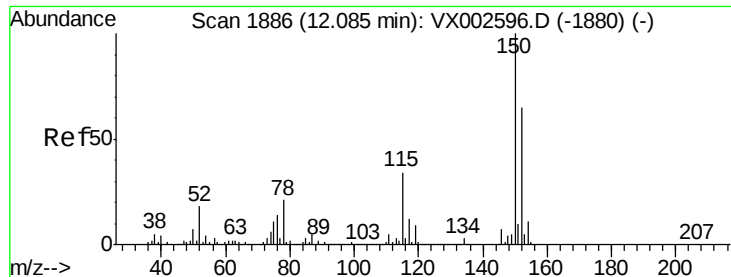
114 27.5 25.3 37.9



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: VX002798.D

Acq: 21 Jun 2018 19:35

Instrument :

MSVOA_X

ClientSampled :

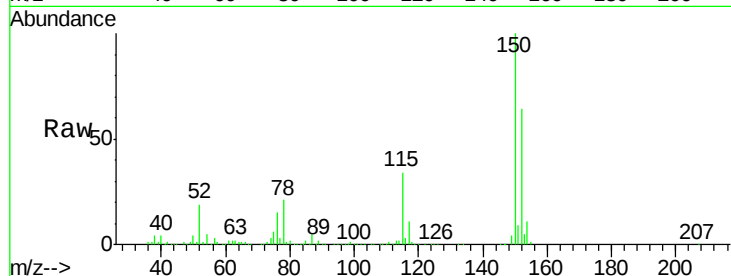
Tot Ion:152 Resp: 175289

Ion Ratio Lower Upper

152 100

115 55.5 40.1 120.2

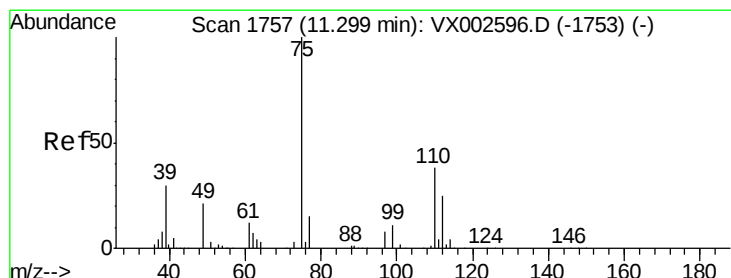
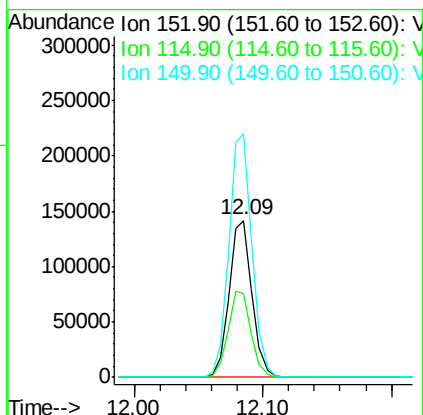
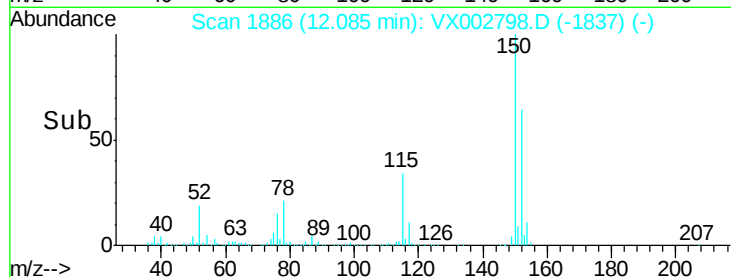
150 157.8 0.0 347.2



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: 26.27 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002798.D

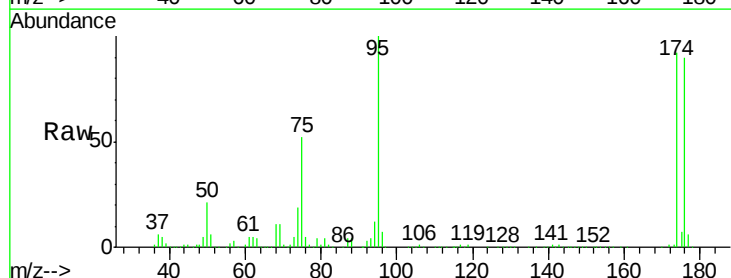
Acq: 21 Jun 2018 19:35

Tgt Ion: 75 Resp: 86880

Ion Ratio Lower Upper

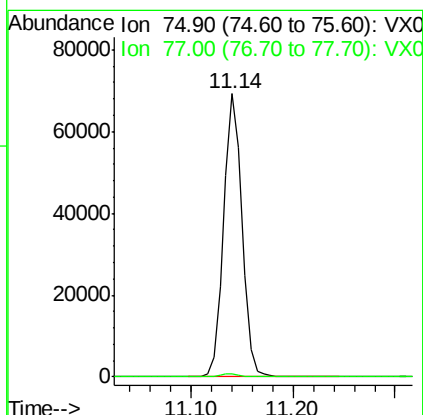
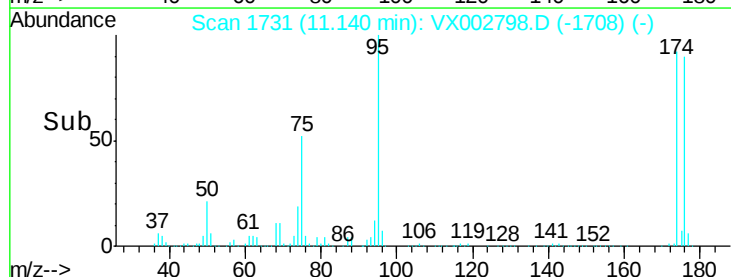
75 100

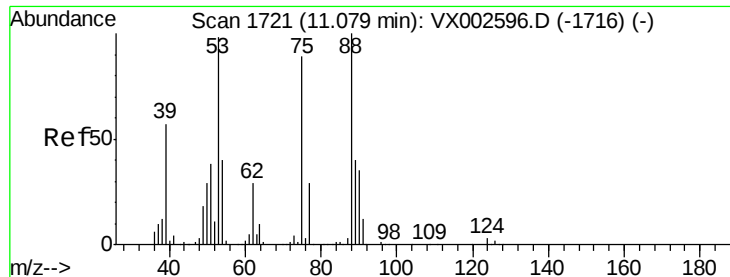
77 1.3 22.8 68.3#



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: 81.20 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002798.D

Acq: 21 Jun 2018 19:35

Instrument :

MSVOA_X

ClientSampleId :

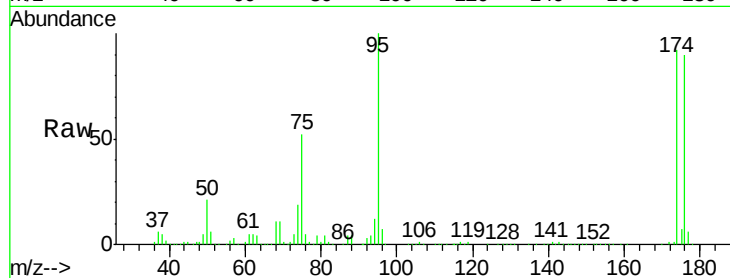
Tot Ion: 75 Resp: 86880

Ion Ratio Lower Upper

75 100

53 0.2 86.8 130.2#

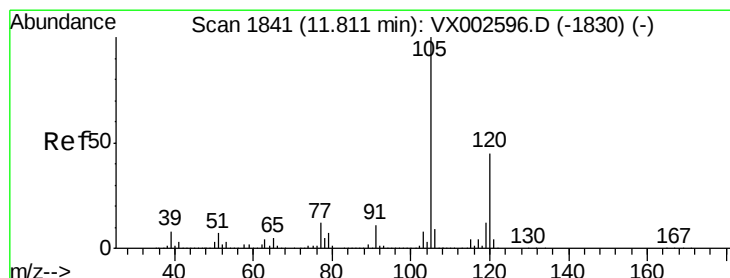
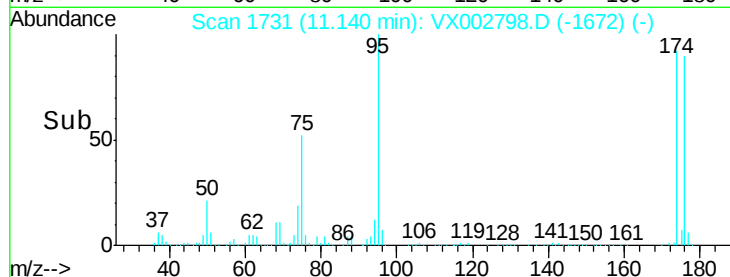
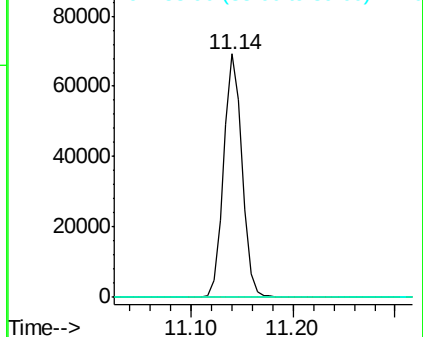
89 0.0 38.2 57.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#84

1,2,4-Trimethylbenzene

Concen: 0.29 ug/l

RT: 11.81 min Scan# 1841

Delta R.T. 0.00 min

Lab File: VX002798.D

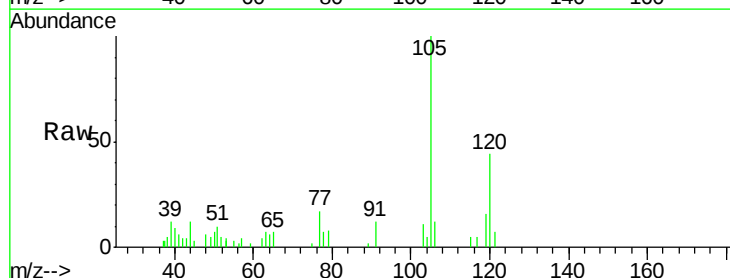
Acq: 21 Jun 2018 19:35

Tgt Ion: 105 Resp: 2966

Ion Ratio Lower Upper

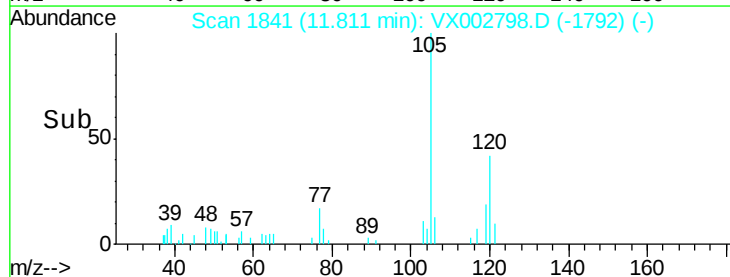
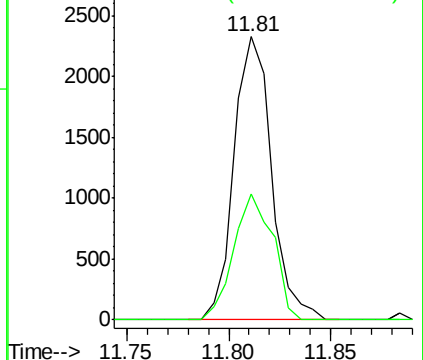
105 100

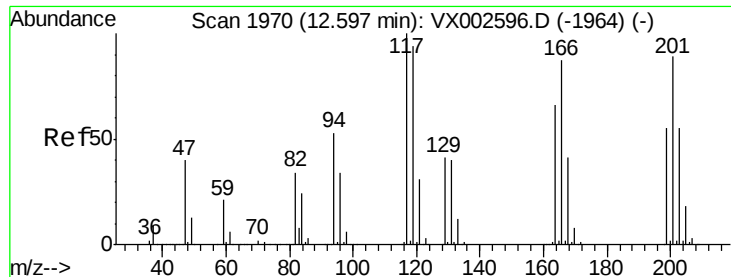
120 46.3 22.3 66.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#90

Hexachloroethane

Concen: 2.77 ug/l

RT: 12.62 min Scan# 1973

Delta R.T. 0.02 min

Lab File: VX002798.D

Acq: 21 Jun 2018 19:35

Instrument :

MSVOA_X

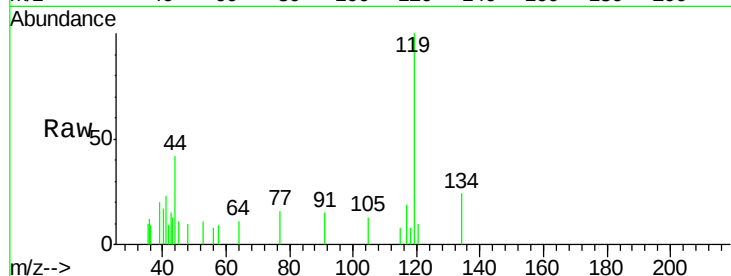
ClientSampleId :

Tot Ion:117 Resp: 264

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

200

150

100

50

0

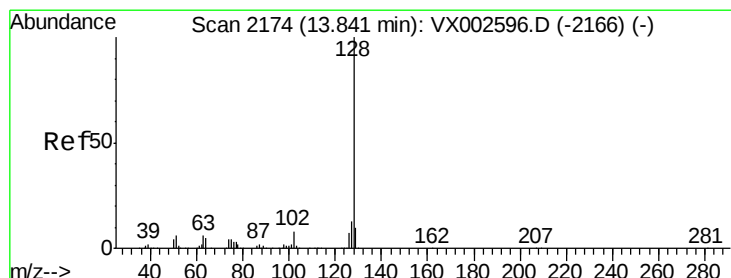
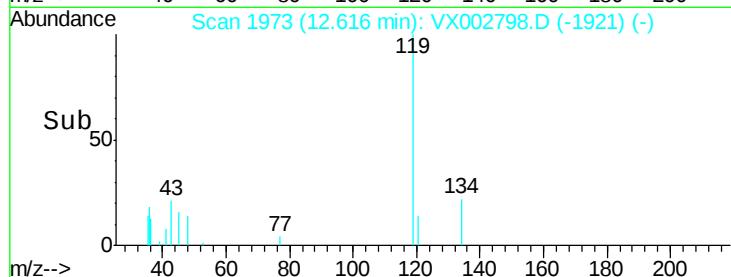
12.55

12.60

12.62

12.65

Time-->



#95

Naphthalene

Concen: 9.90 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. 0.00 min

Lab File: VX002798.D

Acq: 21 Jun 2018 19:35

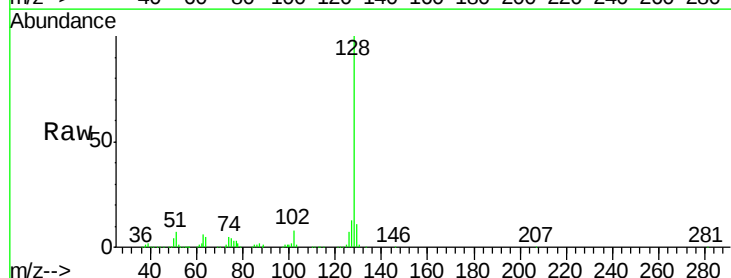
Tgt Ion:128 Resp: 116587

Ion Ratio Lower Upper

128 100

127 13.0 10.4 15.6

129 11.3 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

120000

100000

80000

60000

40000

20000

0

13.80

13.84

13.90

Time-->

