

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062118\
 Data File : VX002797.D
 Acq On : 21 Jun 2018 19:09
 Operator : JC/MD
 Sample : J3603-10
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 22 01:12:45 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	219398	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	314143	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	291330	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	163492	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	152848	45.84	ug/l	0.00
Spiked Amount			Recovery	=	91.68%	
35) Dibromofluoromethane	5.51	113	120791	48.18	ug/l	0.00
Spiked Amount			Recovery	=	96.36%	
50) Toluene-d8	8.72	98	446449	46.90	ug/l	0.00
Spiked Amount			Recovery	=	93.80%	
62) 4-Bromofluorobenzene	11.14	95	152483	42.27	ug/l	0.00
Spiked Amount			Recovery	=	84.54%	

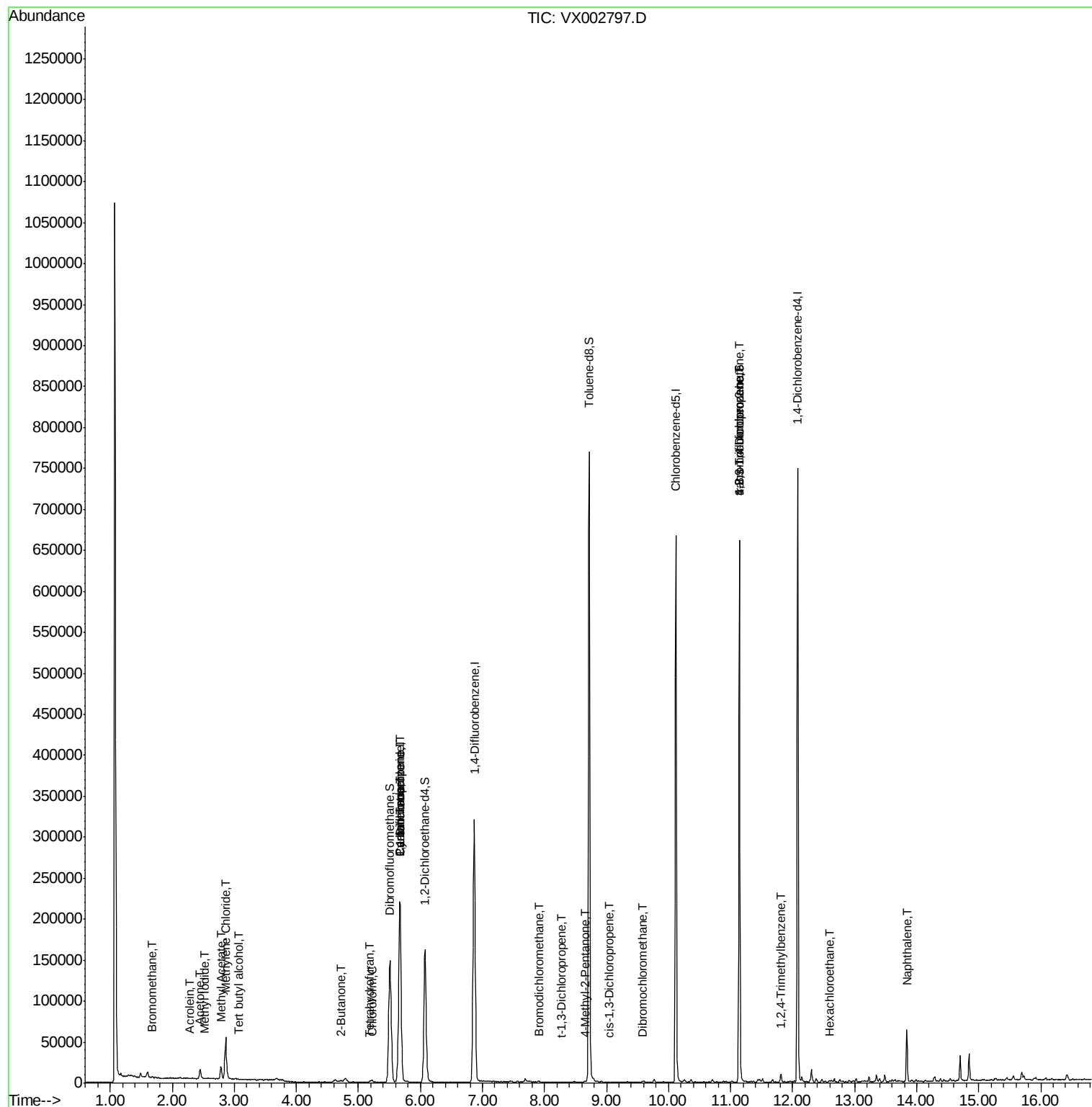
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.66	94	815	0.47	ug/l #	69
10) Methyl Iodide	2.53	142	859	5.40	ug/l #	82
11) Tert butyl alcohol	3.07	59	302	0.44	ug/l #	14
13) Acrolein	2.29	56	495	8.35	ug/l #	61
16) Acetone	2.45	43	12293	8.36	ug/l	100
18) Methyl Acetate	2.78	43	17945	4.58	ug/l	97
20) Methylene Chloride	2.86	84	23015	7.63	ug/l	96
25) 2-Butanone	4.72	43	2297	1.19	ug/l #	86
29) Tetrahydrofuran	5.18	42	694	0.55	ug/l #	88
30) Chloroform	5.22	83	1972	0.43	ug/l	98
31) Cyclohexane	5.67	56	4821	1.23	ug/l #	12
36) 1,1-Dichloropropene	5.67	75	15340	4.60	ug/l #	51
38) Carbon Tetrachloride	5.67	117	20523	6.18	ug/l #	15
47) Bromodichloromethane	7.90	83	796	0.26	ug/l #	88
51) 4-Methyl-2-Pentanone	8.66	43	887	0.22	ug/l #	80
53) t-1,3-Dichloropropene	8.28	75	20	2.40	ug/l #	43
54) cis-1,3-Dichloropropene	9.04	75	22	3.22	ug/l #	32
60) Dibromochloromethane	9.58	129	253	3.84	ug/l	80
76) 1,2,3-Trichloropropane	11.14	75	81281	26.35	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	81281	81.43	ug/l #	7
84) 1,2,4-Trimethylbenzene	11.81	105	3901	0.41	ug/l	90
90) Hexachloroethane	12.59	117	215	2.76	ug/l #	1
95) Naphthalene	13.84	128	38838	3.54	ug/l	98

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

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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: VX002797.D

Acq: 21 Jun 2018 19:09

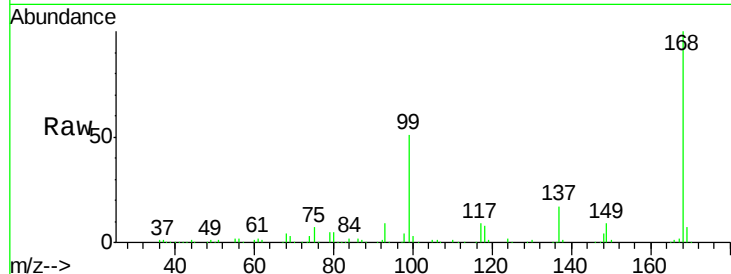
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 219398

Ion Ratio Lower Upper

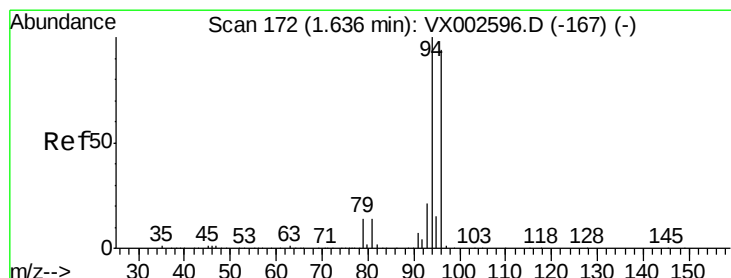
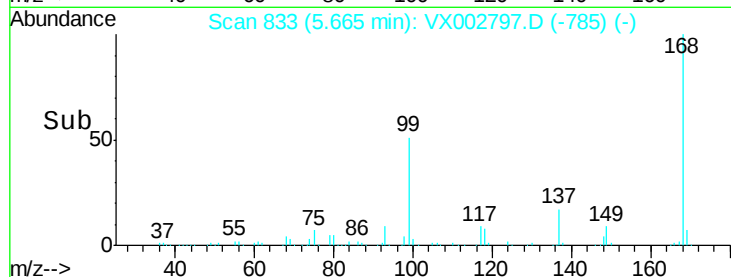
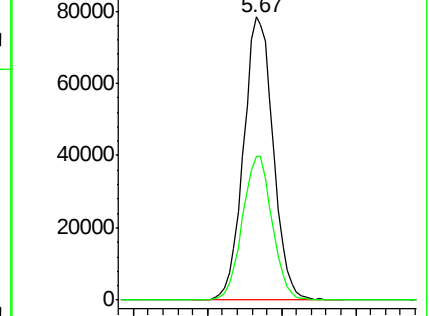
168 100

99 50.8 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.47 ug/l

RT: 1.66 min Scan# 176

Delta R.T. 0.02 min

Lab File: VX002797.D

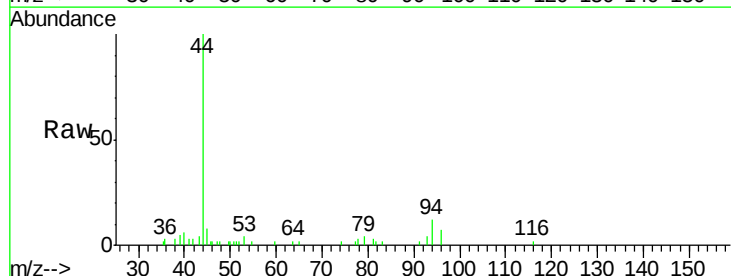
Acq: 21 Jun 2018 19:09

Tgt Ion: 94 Resp: 815

Ion Ratio Lower Upper

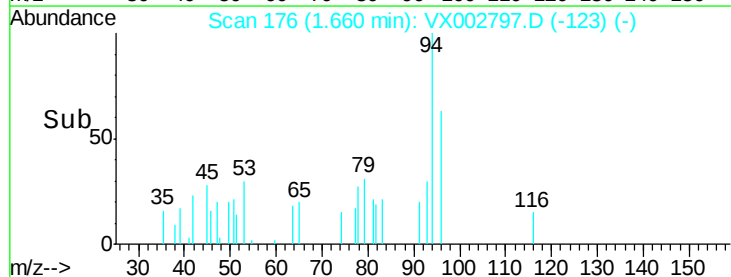
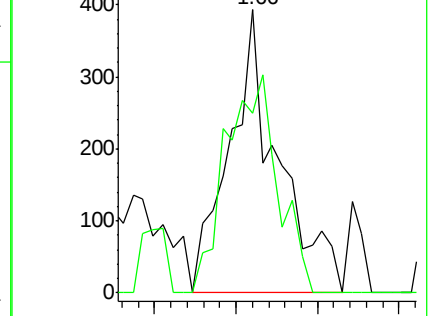
94 100

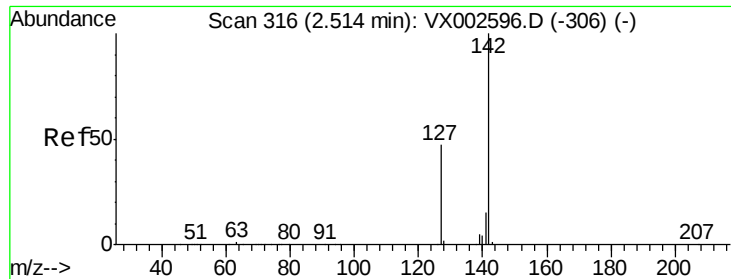
96 63.4 74.9 112.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

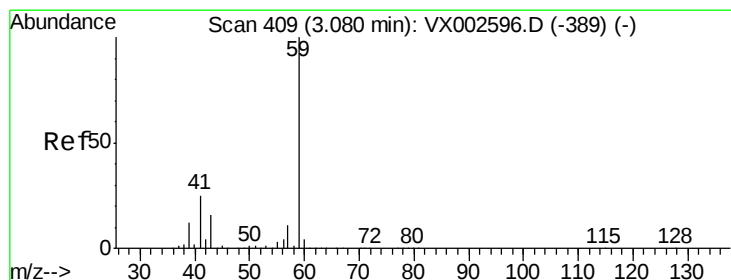
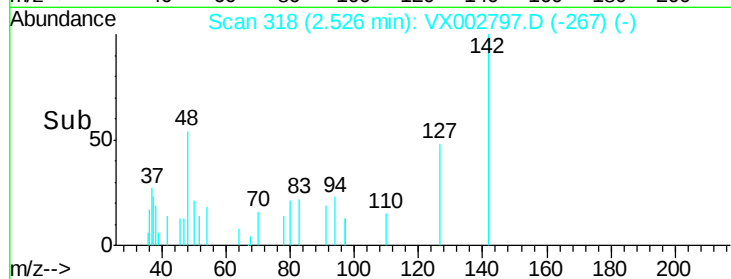
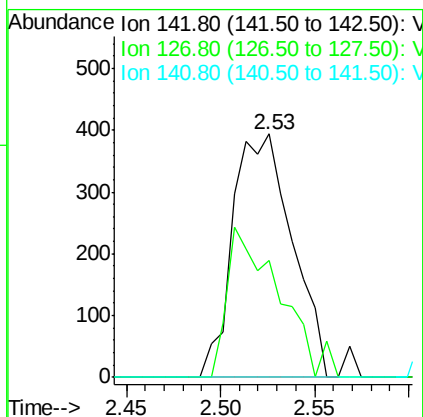
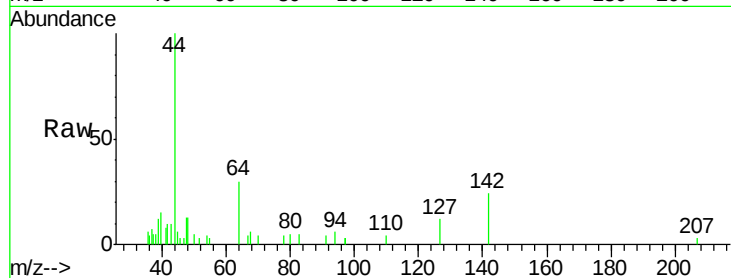




#10
Methvl Iodide
Concen: 5.40 ug/l
RT: 2.53 min Scan# 318
Delta R.T. 0.01 min
Lab File: VX002797.D
Acq: 21 Jun 2018 19:09

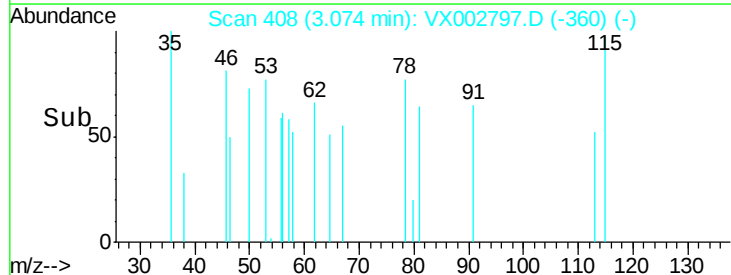
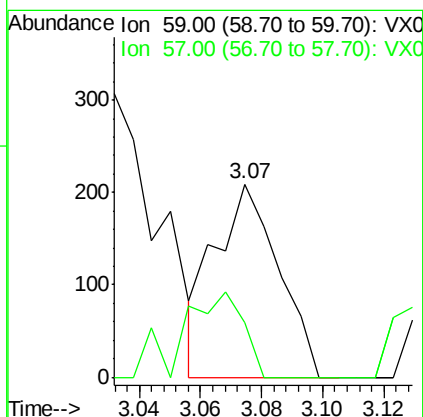
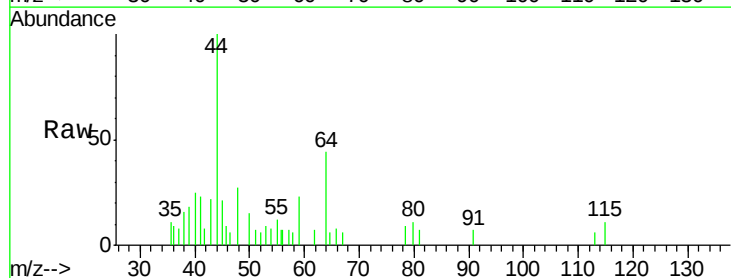
Instrument :
MSVOA_X
ClientSampled :

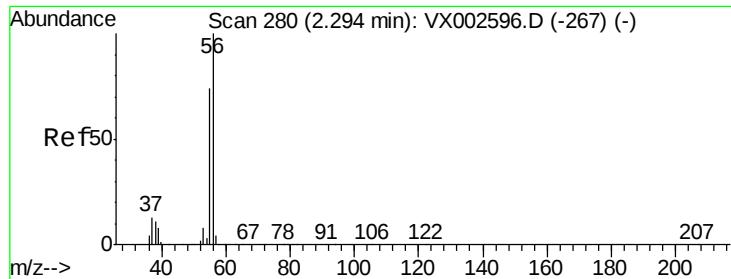
Tot Ion:142 Resp: 859
Ion Ratio Lower Upper
142 100
127 54.4 36.6 55.0
141 0.0 11.3 16.9#



#11
Tert butyl alcohol
Concen: 0.44 ug/l
RT: 3.07 min Scan# 408
Delta R.T. -0.01 min
Lab File: VX002797.D
Acq: 21 Jun 2018 19:09

Tgt Ion: 59 Resp: 302
Ion Ratio Lower Upper
59 100
57 42.4 8.2 12.2#





#13

Acrolein

Concen: 8.35 ug/l

RT: 2.29 min Scan# 280

Delta R.T. 0.00 min

Lab File: VX002797.D

Acq: 21 Jun 2018 19:09

Instrument :

MSVOA_X

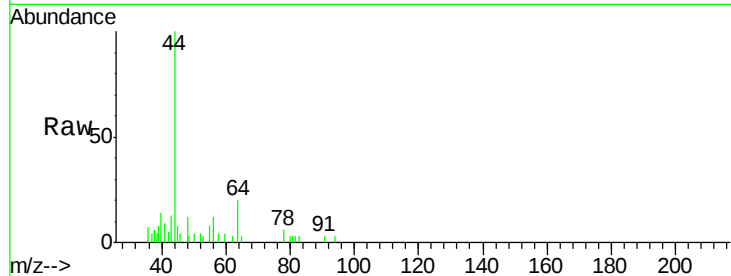
ClientSampled :

Tot Ion: 56 Resp: 495

Ion Ratio Lower Upper

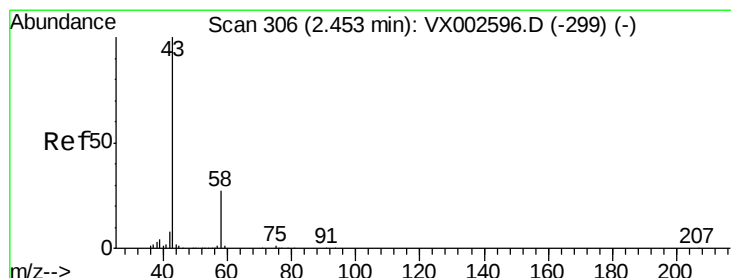
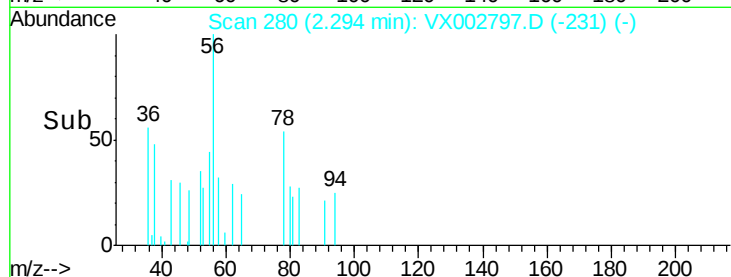
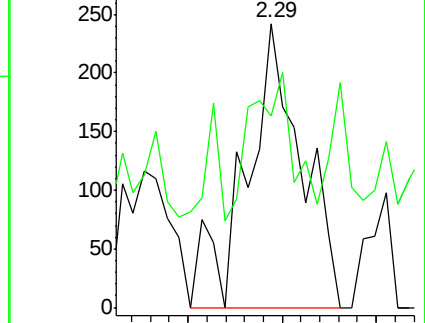
56 100

55 39.2 57.0 85.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 8.36 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002797.D

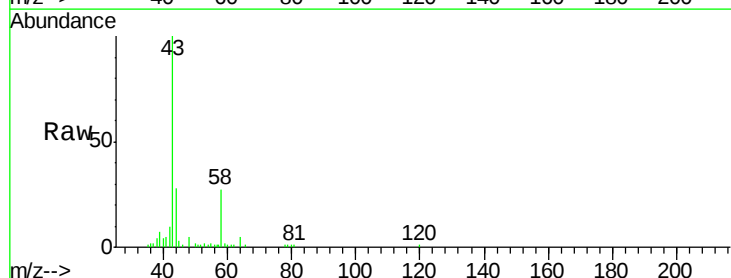
Acq: 21 Jun 2018 19:09

Tgt Ion: 43 Resp: 12293

Ion Ratio Lower Upper

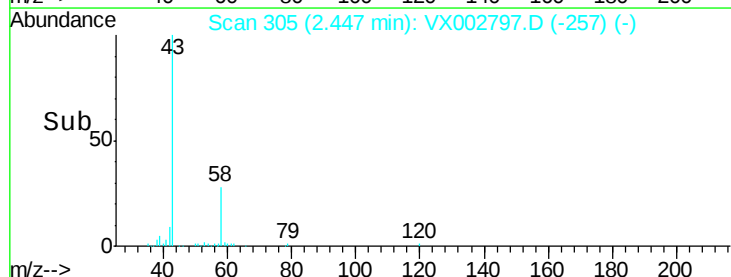
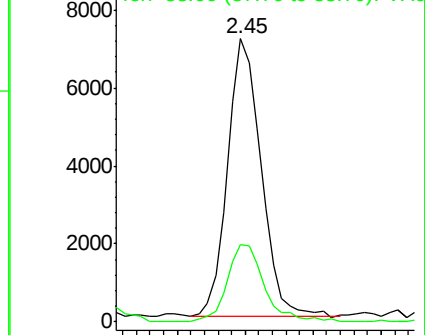
43 100

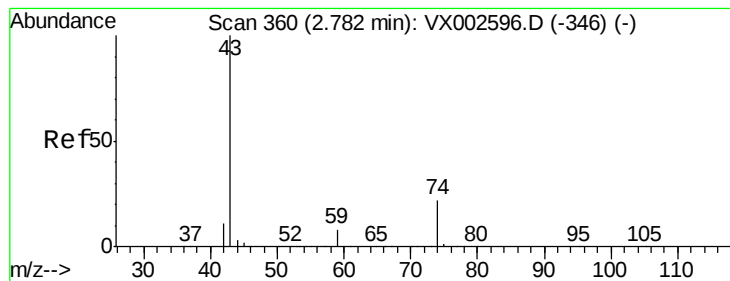
58 27.6 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#18

Methvl Acetate

Concen: 4.58 ug/l

RT: 2.78 min Scan# 360

Delta R.T. 0.00 min

Lab File: VX002797.D

Acq: 21 Jun 2018 19:09

Instrument :

MSVOA_X

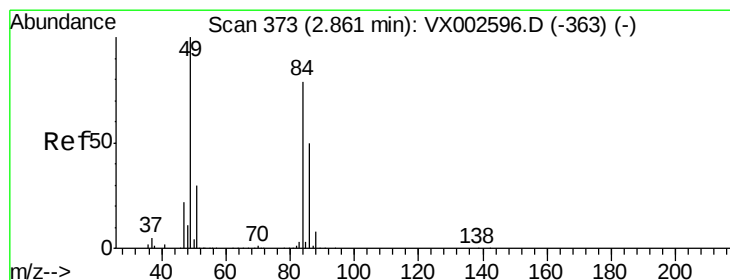
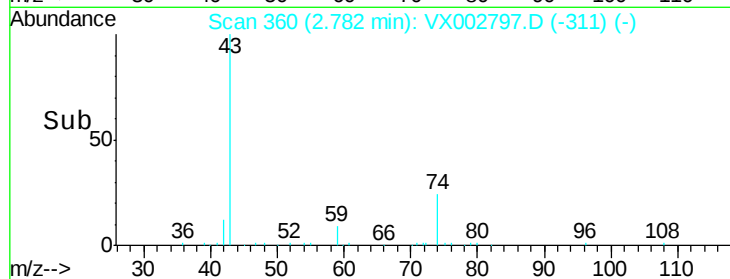
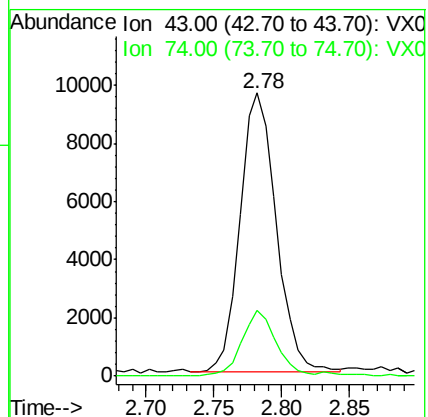
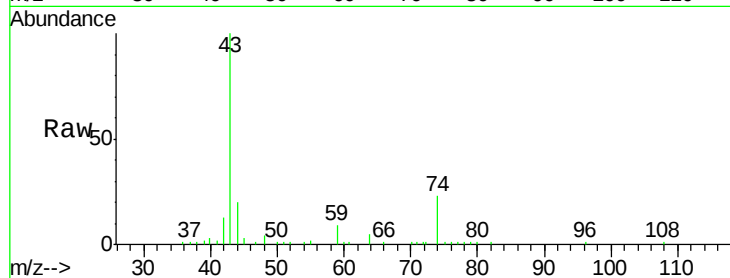
ClientSampled :

Tot Ion: 43 Resp: 17945

Ion Ratio Lower Upper

43 100

74 22.2 16.7 25.1



#20

Methylene Chloride

Concen: 7.63 ug/l

RT: 2.86 min Scan# 373

Delta R.T. 0.00 min

Lab File: VX002797.D

Acq: 21 Jun 2018 19:09

Tgt Ion: 84 Resp: 23015

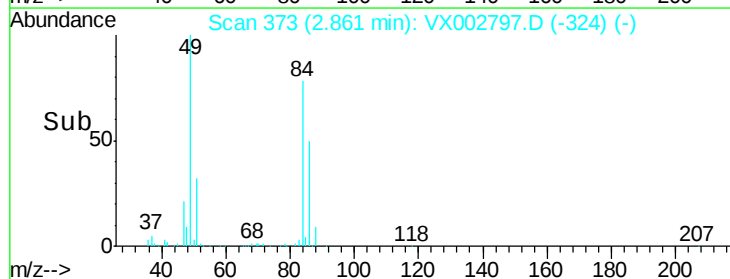
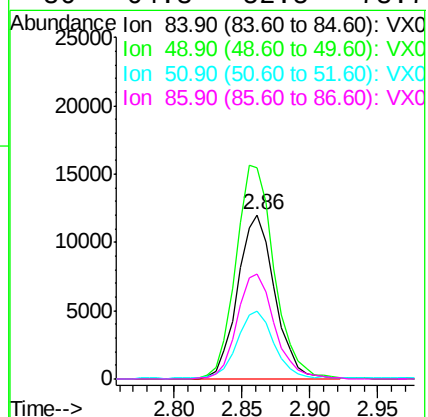
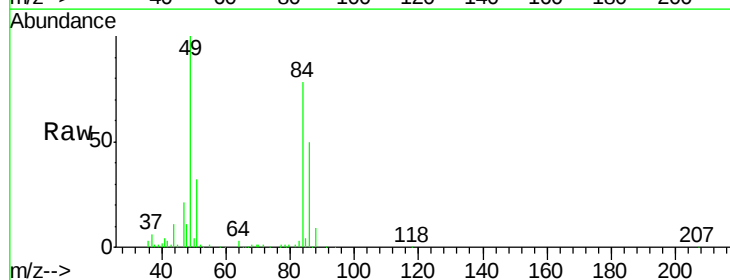
Ion Ratio Lower Upper

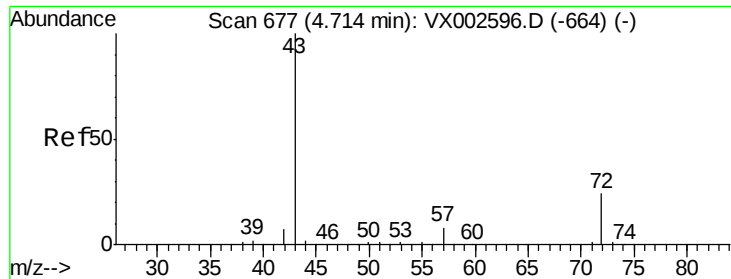
84 100

49 128.6 107.8 161.6

51 40.2 32.8 49.2

86 64.3 52.5 78.7





#25

2-Butanone

Concen: 1.19 ug/l

RT: 4.72 min Scan# 678

Delta R.T. 0.01 min

Lab File: VX002797.D

Acq: 21 Jun 2018 19:09

Instrument :

MSVOA_X

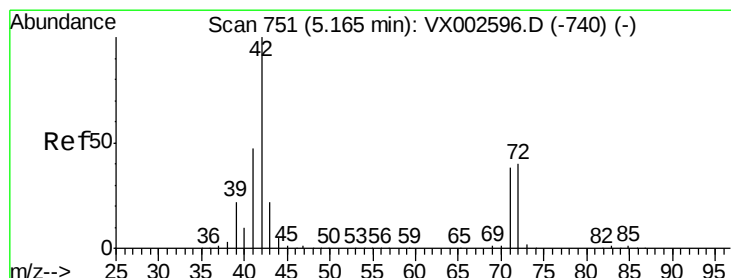
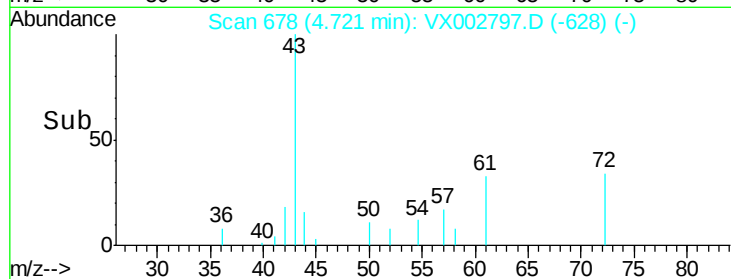
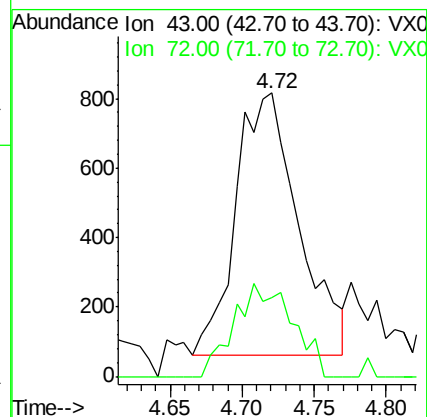
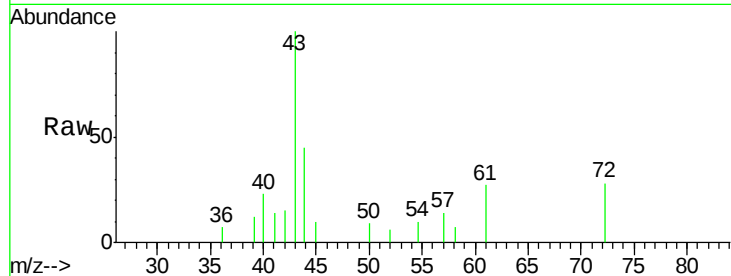
ClientSampled :

Tot Ion: 43 Resp: 2297

Ion Ratio Lower Upper

43 100

72 30.1 18.5 27.7#



#29

Tetrahydrofuran

Concen: 0.55 ug/l

RT: 5.18 min Scan# 753

Delta R.T. 0.01 min

Lab File: VX002797.D

Acq: 21 Jun 2018 19:09

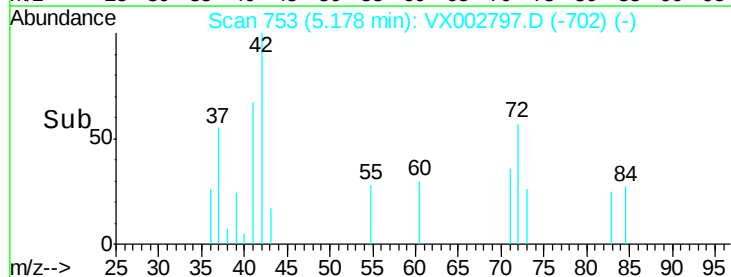
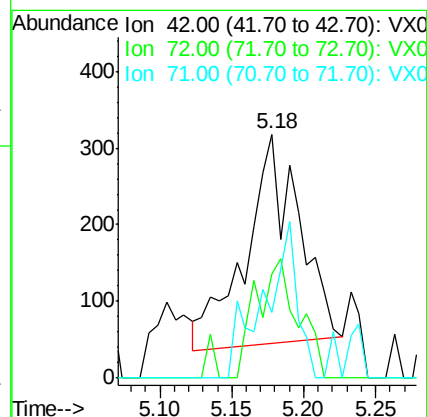
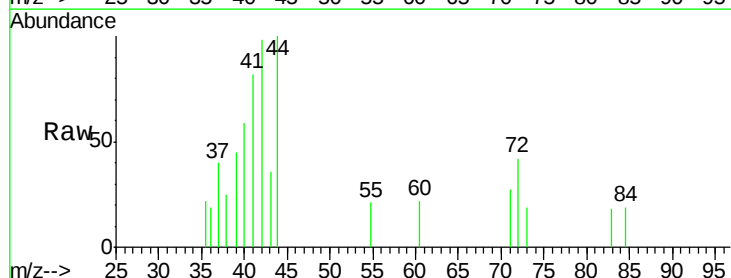
Tgt Ion: 42 Resp: 694

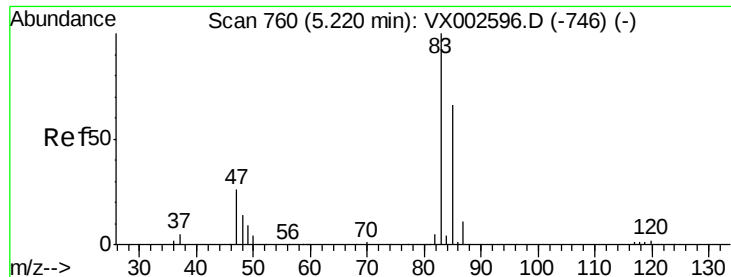
Ion Ratio Lower Upper

42 100

72 45.0 32.0 48.0

71 47.6 30.1 45.1#

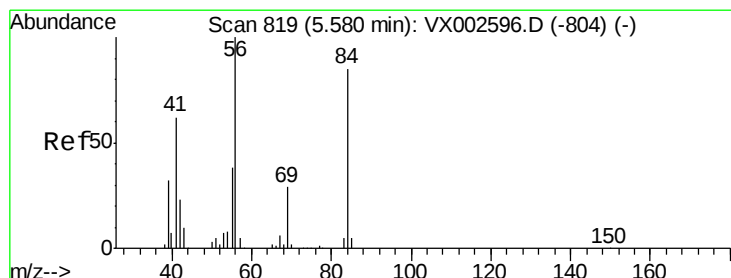
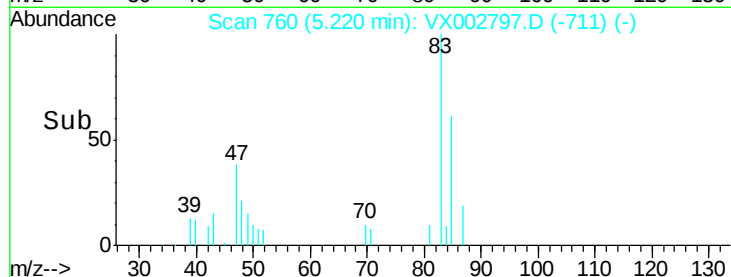
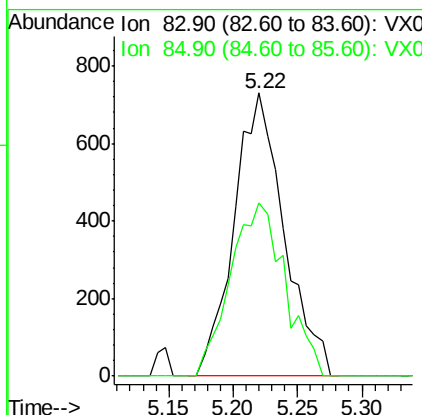
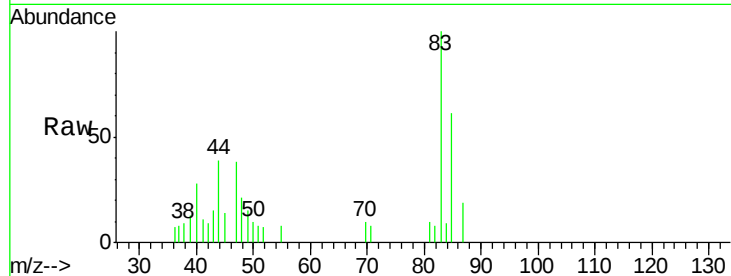




#30
Chloroform
Concen: 0.43 ug/l
RT: 5.22 min Scan# 760
Delta R.T. 0.00 min
Lab File: VX002797.D
Acq: 21 Jun 2018 19:09

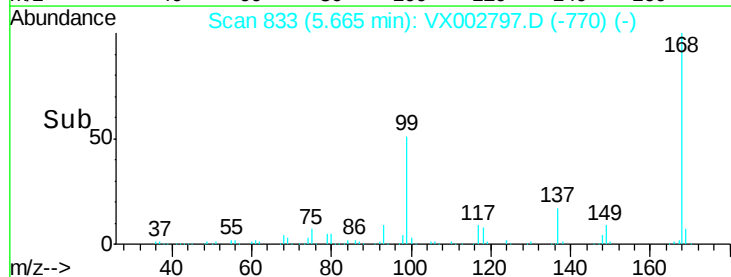
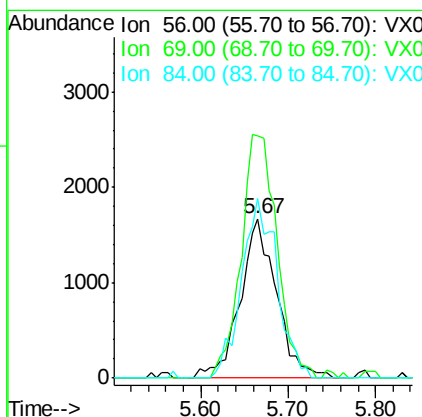
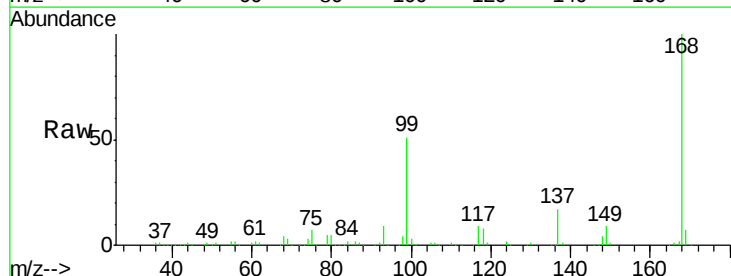
Instrument :
MSVOA_X
ClientSampled :

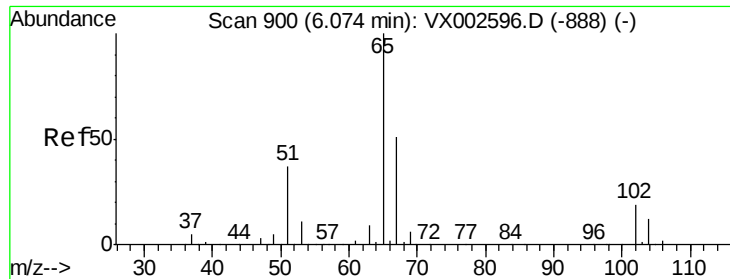
Tot Ion: 83 Resp: 1972
Ion Ratio Lower Upper
83 100
85 61.4 50.4 75.6



#31
Cyclohexane
Concen: 1.23 ug/l
RT: 5.67 min Scan# 833
Delta R.T. 0.09 min
Lab File: VX002797.D
Acq: 21 Jun 2018 19:09

Tgt Ion: 56 Resp: 4821
Ion Ratio Lower Upper
56 100
69 152.4 23.7 35.5#
84 112.5 64.1 96.1#

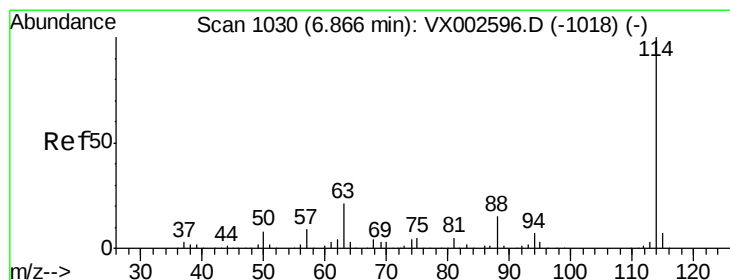
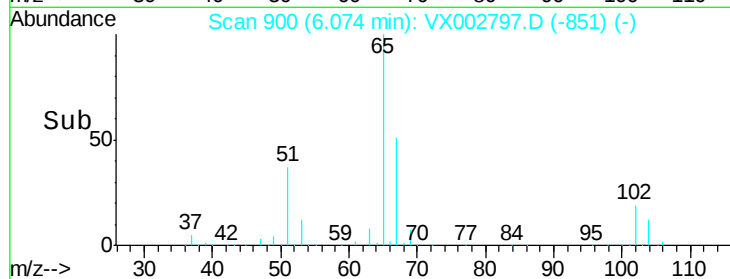
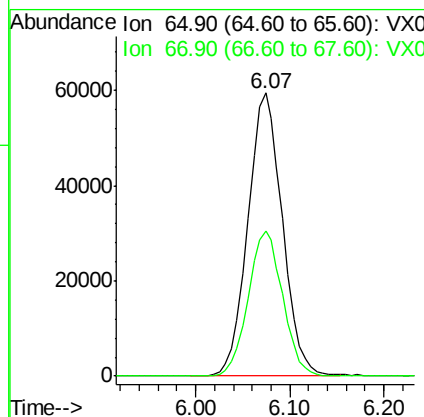
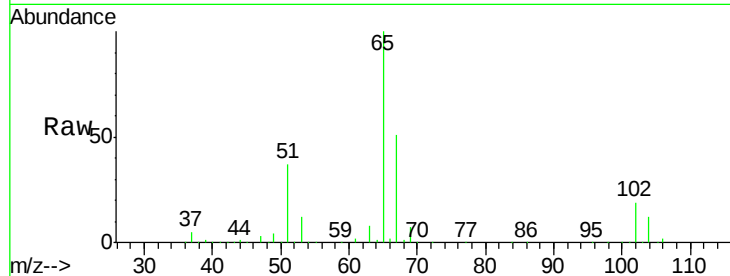




#33
 1,2-Dichloroethane-d4
 Concen: 45.84 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.00 min
 Lab File: VX002797.D
 Acq: 21 Jun 2018 19:09

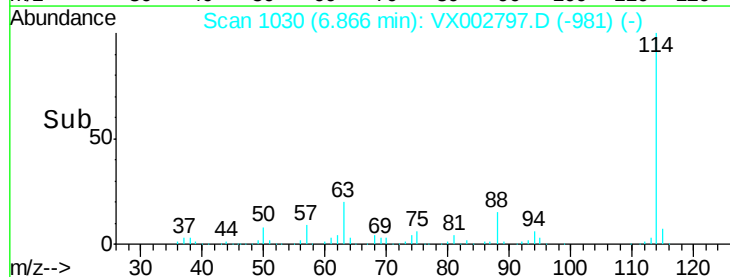
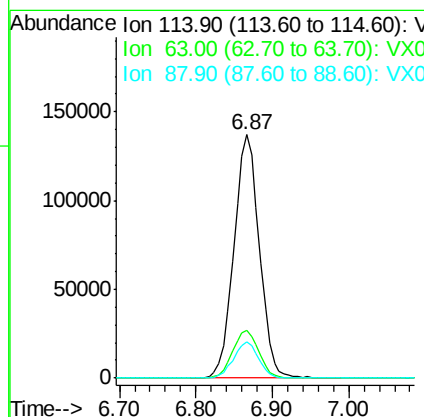
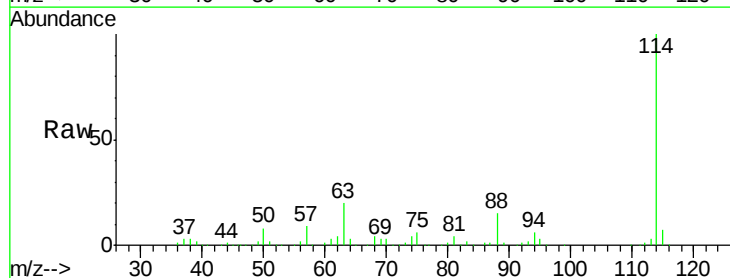
Instrument :
 MSVOA_X
 ClientSampleId :

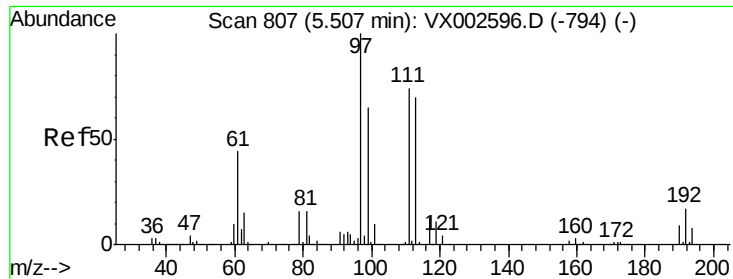
Tot Ion: 65 Resp: 152848
 Ion Ratio Lower Upper
 65 100
 67 51.5 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX002797.D
 Acq: 21 Jun 2018 19:09

Tgt Ion: 114 Resp: 314143
 Ion Ratio Lower Upper
 114 100
 63 19.9 0.0 41.4
 88 15.1 0.0 30.0

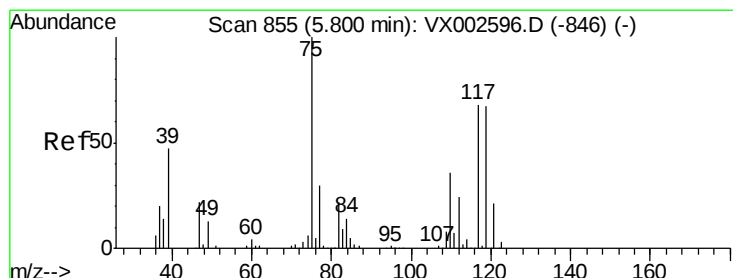
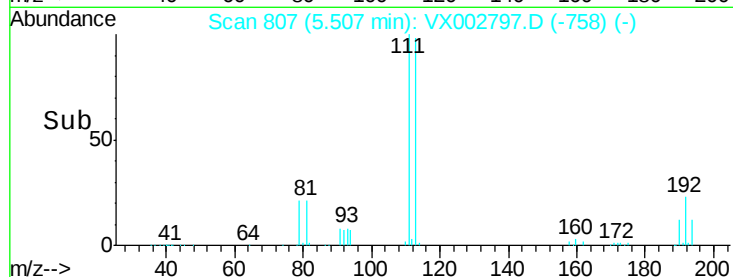
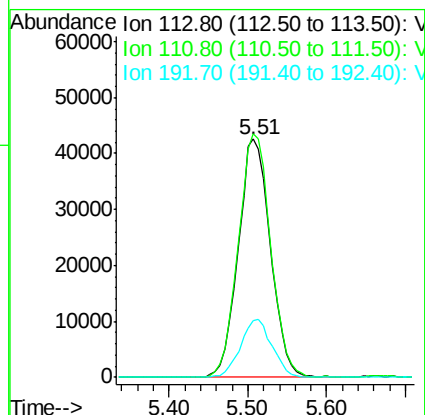
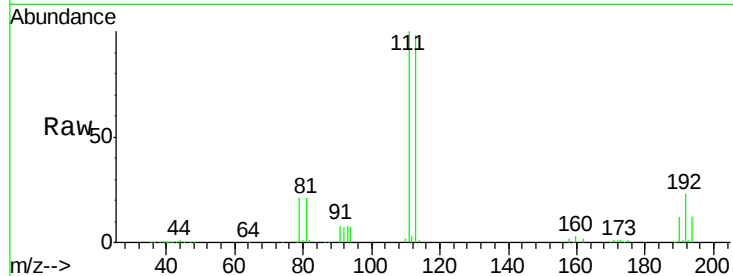




#35
Dibromofluoromethane
Concen: 48.18 ug/l
RT: 5.51 min Scan# 807
Delta R.T. 0.00 min
Lab File: VX002797.D
Acq: 21 Jun 2018 19:09

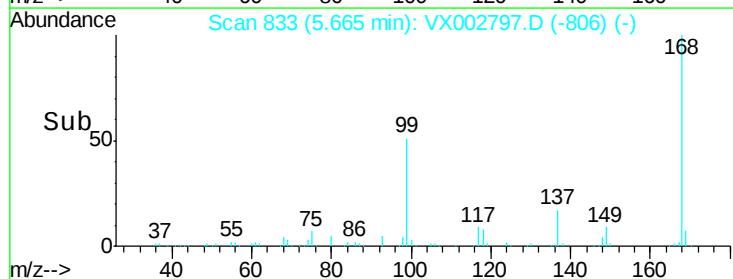
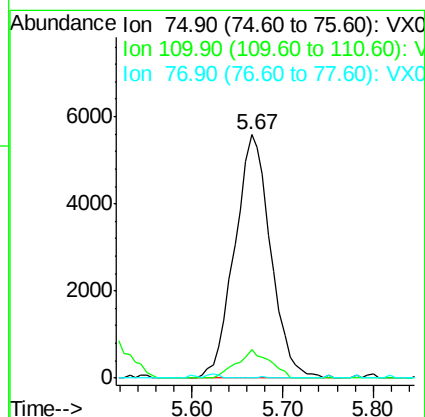
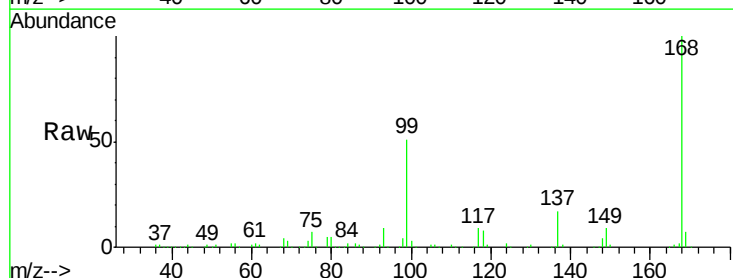
Instrument :
MSVOA_X
ClientSampled :

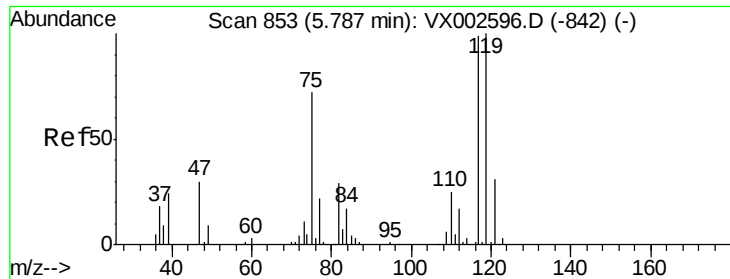
Tot Ion:113 Resp: 120791
Ion Ratio Lower Upper
113 100
111 102.8 81.4 122.0
192 23.9 19.1 28.7



#36
1,1-Dichloropropene
Concen: 4.60 ug/l
RT: 5.67 min Scan# 833
Delta R.T. -0.13 min
Lab File: VX002797.D
Acq: 21 Jun 2018 19:09

Tgt Ion: 75 Resp: 15340
Ion Ratio Lower Upper
75 100
110 10.5 18.1 54.4#
77 0.1 24.3 36.5#

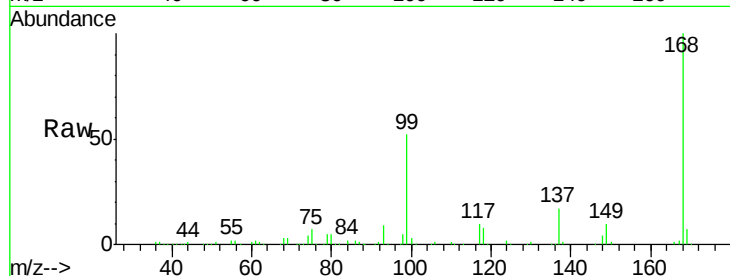




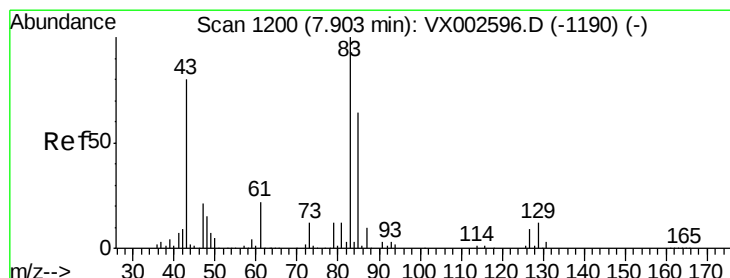
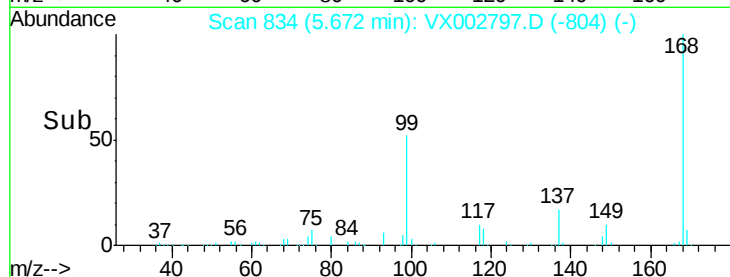
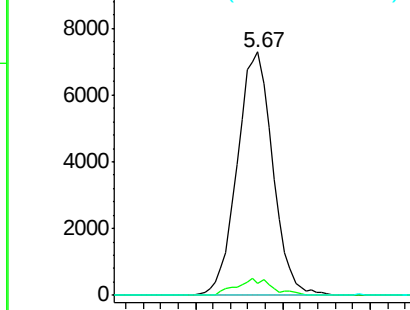
#38
Carbon Tetrachloride
Concen: 6.18 ug/l
RT: 5.67 min Scan# 834
Delta R.T. -0.12 min
Lab File: VX002797.D
Acq: 21 Jun 2018 19:09

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:117 Resp: 20523
Ion Ratio Lower Upper
117 100
119 4.9 77.4 116.0#
121 0.0 24.4 36.6#

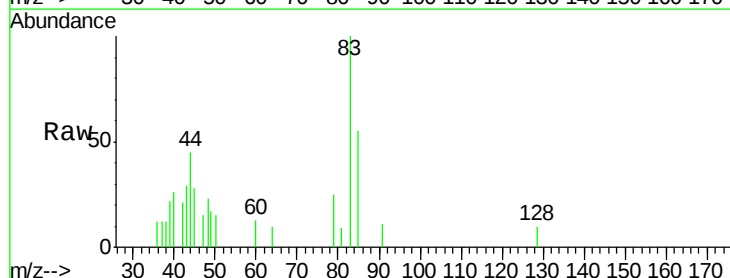


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

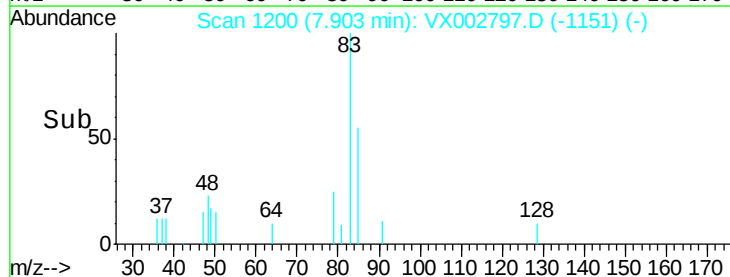
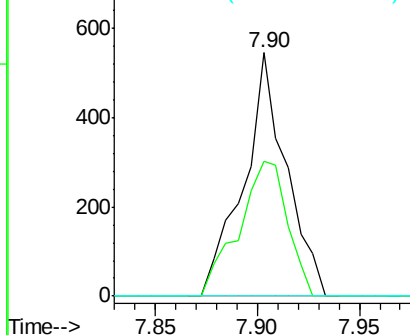


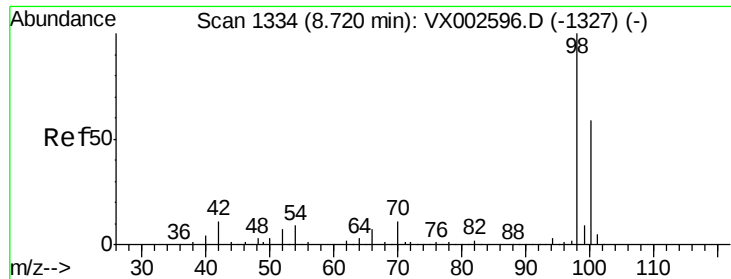
#47
Bromodichloromethane
Concen: 0.26 ug/l
RT: 7.90 min Scan# 1200
Delta R.T. 0.00 min
Lab File: VX002797.D
Acq: 21 Jun 2018 19:09

Tgt Ion: 83 Resp: 796
Ion Ratio Lower Upper
83 100
85 55.2 50.3 75.5
127 0.0 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

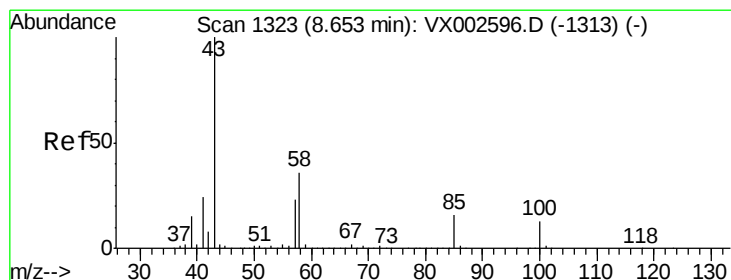
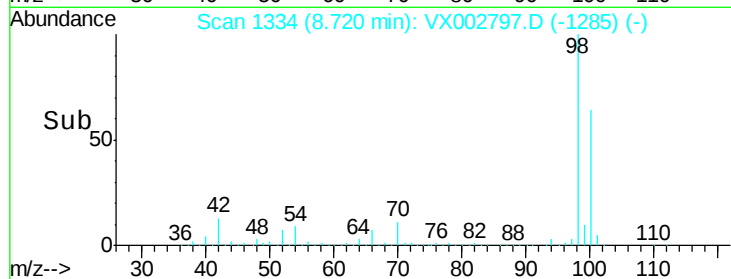
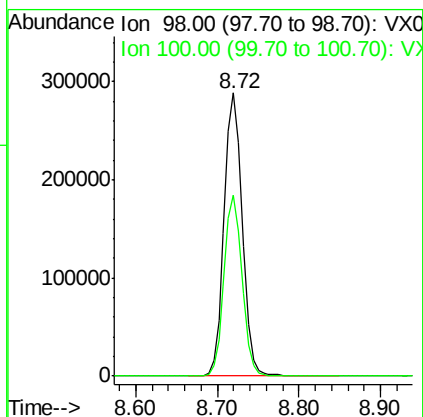
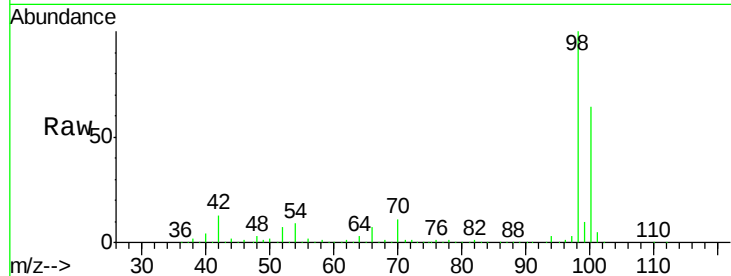




#50
Toluene-d8
Concen: 46.90 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002797.D
Acq: 21 Jun 2018 19:09

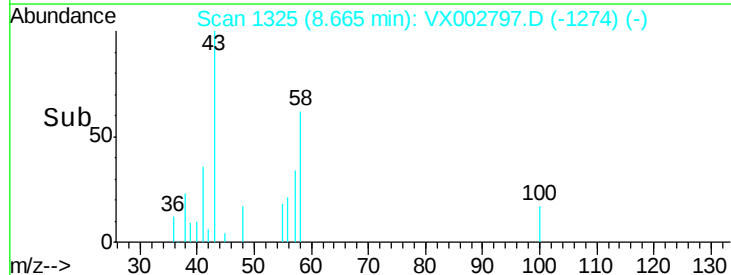
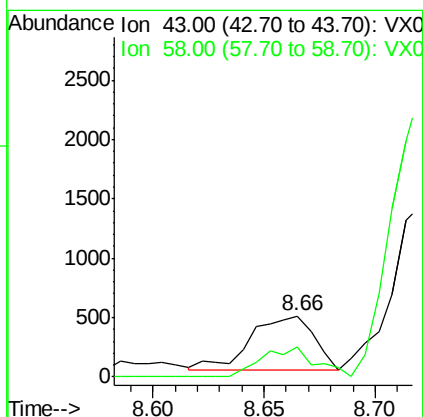
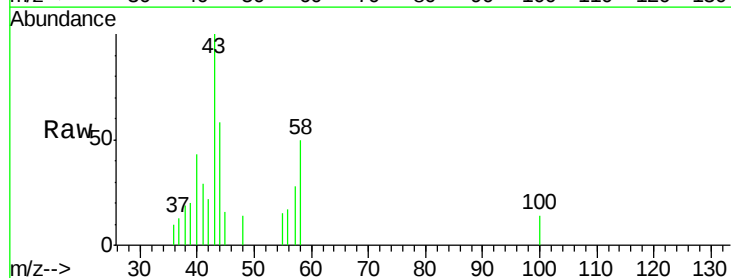
Instrument :
MSVOA_X
ClientSampled :

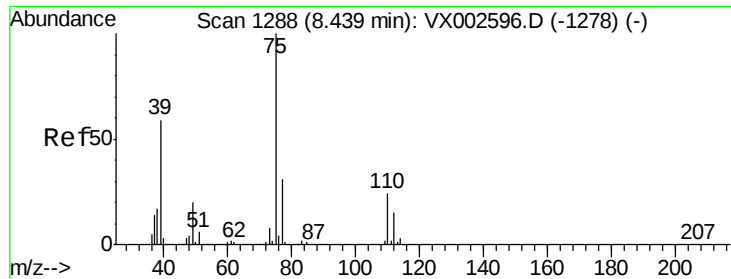
Tot Ion: 98 Resp: 446449
Ion Ratio Lower Upper
98 100
100 63.3 50.9 76.3



#51
4-Methyl-2-Pentanone
Concen: 0.22 ug/l
RT: 8.66 min Scan# 1325
Delta R.T. 0.01 min
Lab File: VX002797.D
Acq: 21 Jun 2018 19:09

Tgt Ion: 43 Resp: 887
Ion Ratio Lower Upper
43 100
58 47.2 28.6 42.8#

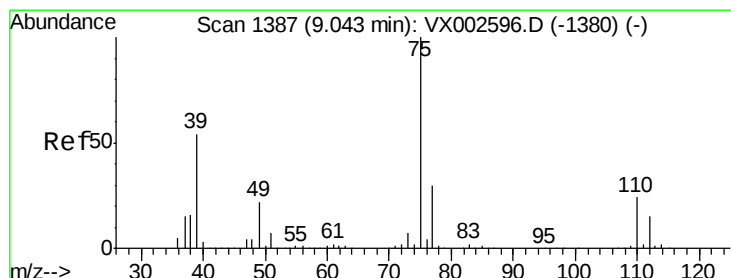
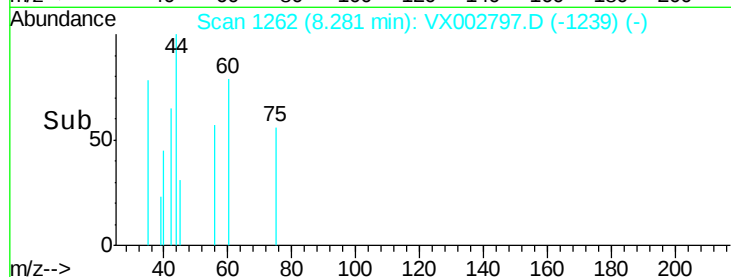
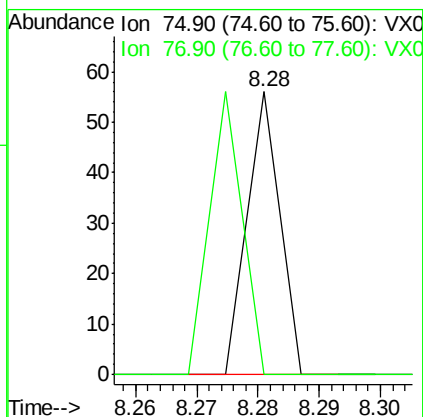
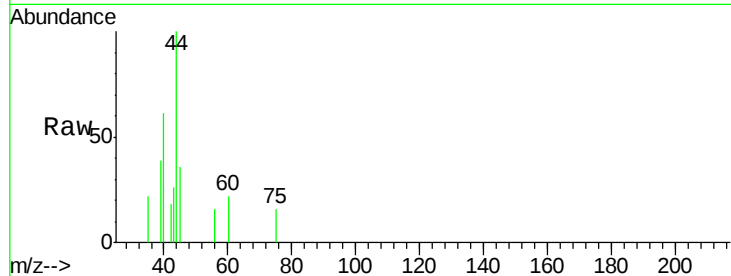




#53
t-1,3-Dichloropropene
Concen: 2.40 ug/l
RT: 8.28 min Scan# 1262
Delta R.T. -0.16 min
Lab File: VX002797.D
Acq: 21 Jun 2018 19:09

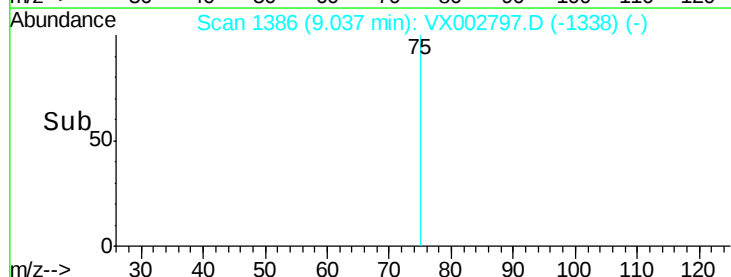
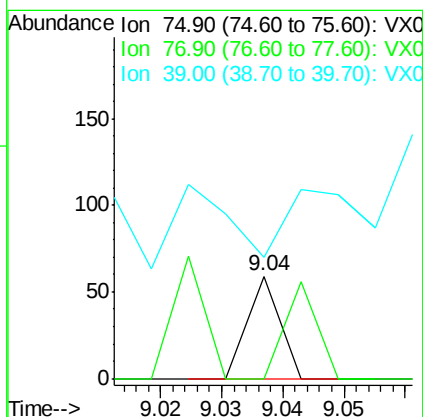
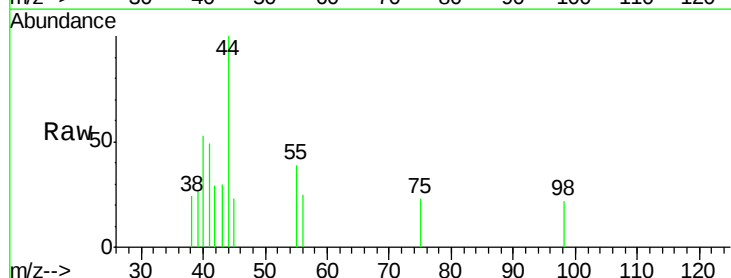
Instrument :
MSVOA_X
ClientSampled :

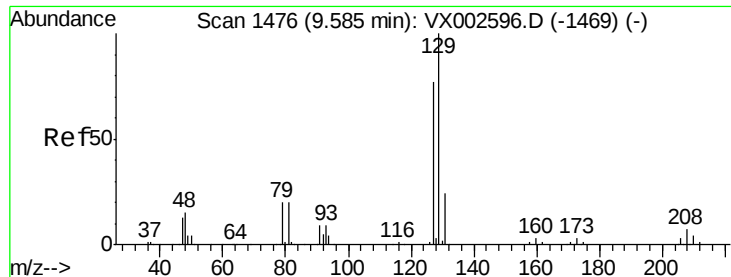
Tot Ion: 75 Resp: 20
Ion Ratio Lower Upper
75 100
77 0.0 25.4 38.2#



#54
cis-1,3-Dichloropropene
Concen: 3.22 ug/l
RT: 9.04 min Scan# 1386
Delta R.T. -0.01 min
Lab File: VX002797.D
Acq: 21 Jun 2018 19:09

Tgt Ion: 75 Resp: 22
Ion Ratio Lower Upper
75 100
77 0.0 24.8 37.2#
39 0.0 42.4 63.6#





#60

Dibromochloromethane

Concen: 3.84 ug/l

RT: 9.58 min Scan# 1475

Delta R.T. -0.01 min

Lab File: VX002797.D

Acq: 21 Jun 2018 19:09

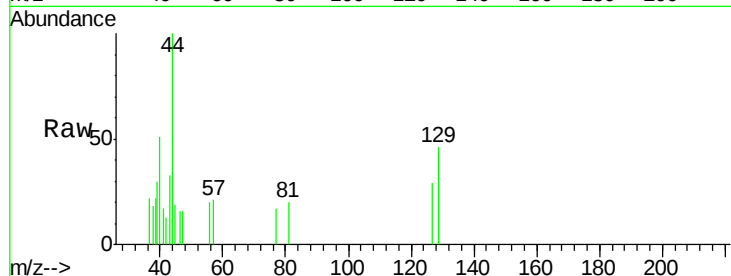
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:129 Resp: 253

Ion Ratio Lower Upper

129 100

127 59.7 38.5 115.3



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.58

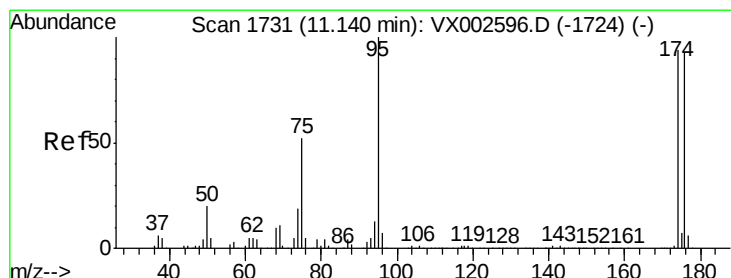
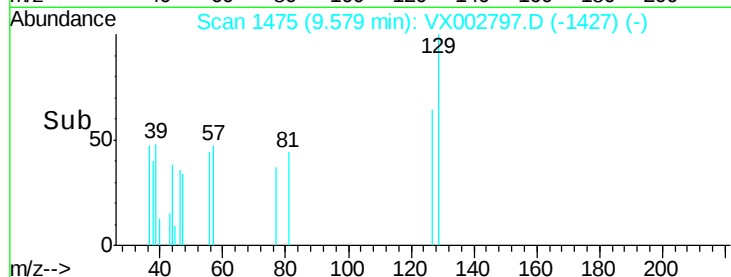
150

100

50

0

Time--> 9.54 9.56 9.58 9.60 9.62



#62

4-Bromofluorobenzene

Concen: 42.27 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX002797.D

Acq: 21 Jun 2018 19:09

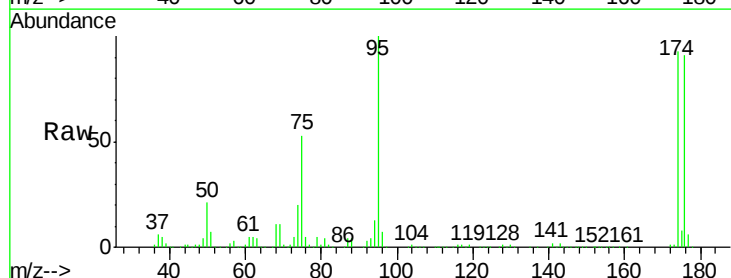
Tgt Ion: 95 Resp: 152483

Ion Ratio Lower Upper

95 100

174 97.5 0.0 187.4

176 94.6 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

11.14

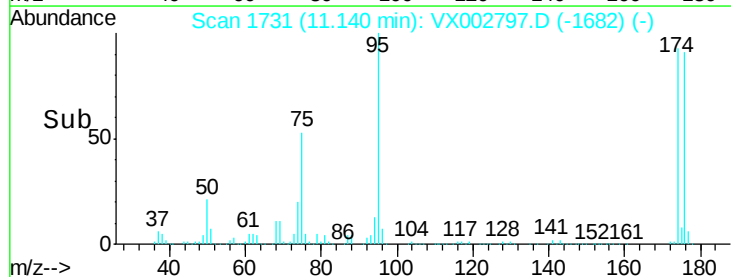
150000

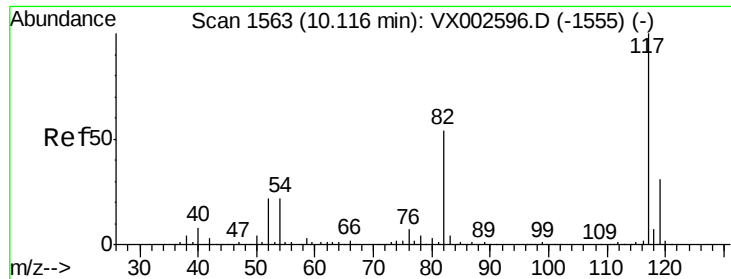
100000

50000

0

Time--> 11.10 11.20





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VX002797.D

Acq: 21 Jun 2018 19:09

Instrument :

MSVOA_X

ClientSampled :

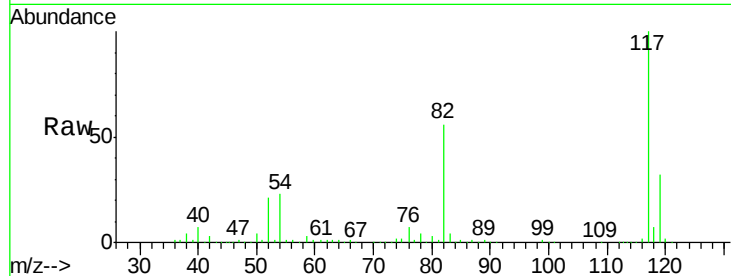
Tot Ion:117 Resp: 291330

Ion Ratio Lower Upper

117 100

82 55.9 45.0 67.4

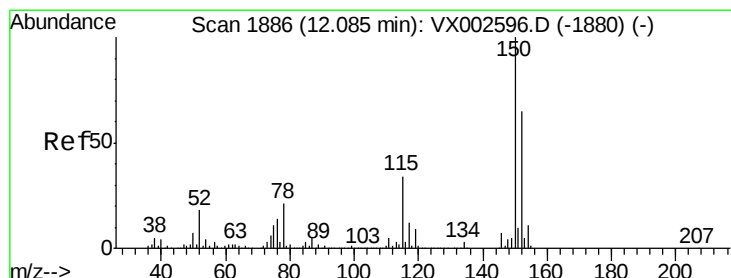
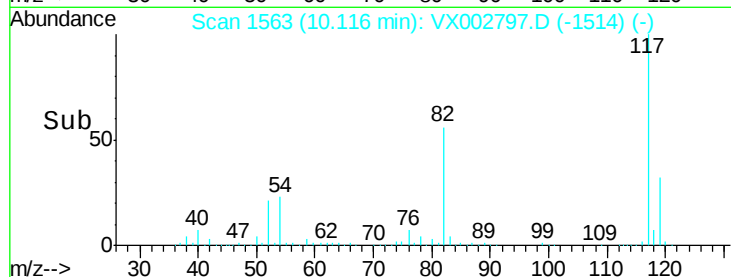
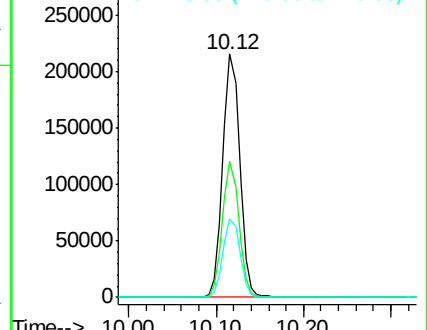
119 32.3 25.8 38.6



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: VX002797.D

Acq: 21 Jun 2018 19:09

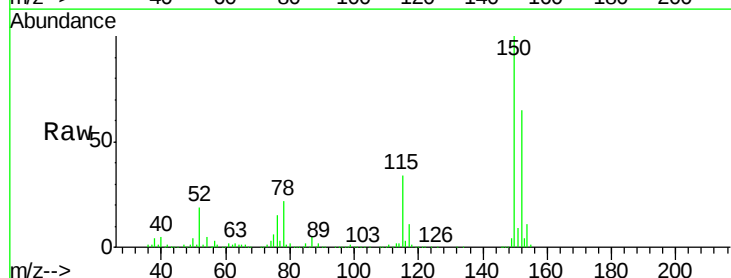
Tgt Ion:152 Resp: 163492

Ion Ratio Lower Upper

152 100

115 55.0 40.1 120.2

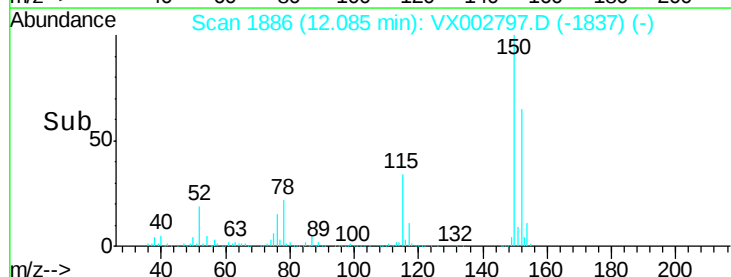
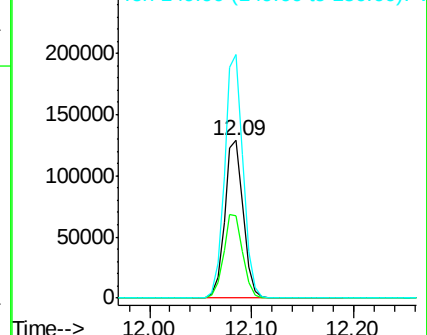
150 154.6 0.0 347.2

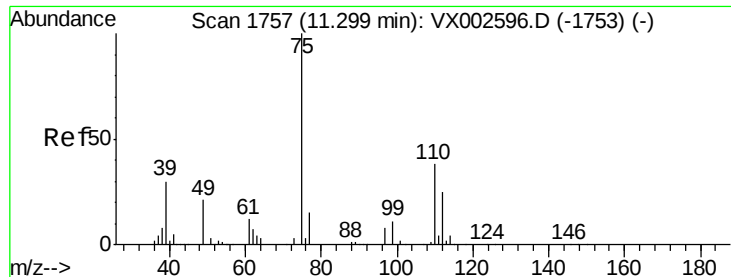


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 26.35 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002797.D

Acq: 21 Jun 2018 19:09

Instrument :

MSVOA_X

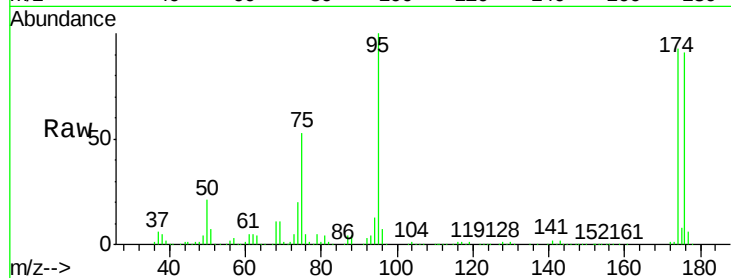
ClientSampleId :

Tot Ion: 75 Resp: 81281

Ion Ratio Lower Upper

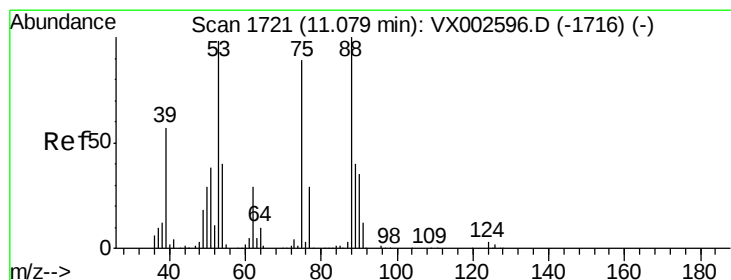
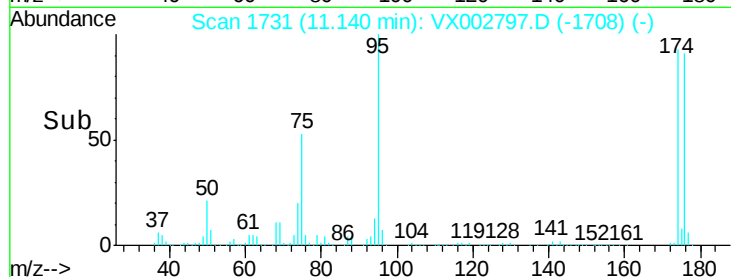
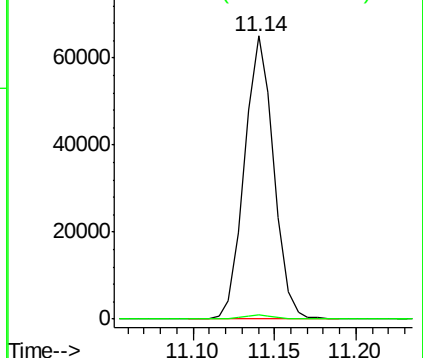
75 100

77 1.5 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: 81.43 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002797.D

Acq: 21 Jun 2018 19:09

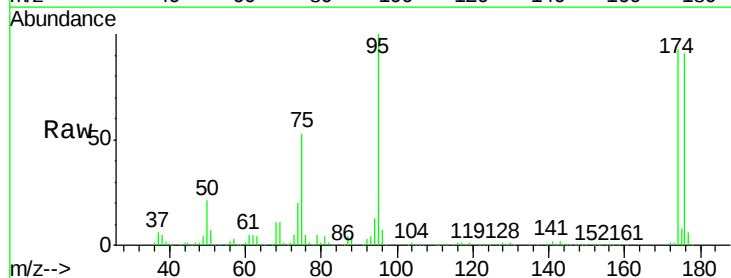
Tgt Ion: 75 Resp: 81281

Ion Ratio Lower Upper

75 100

53 0.3 86.8 130.2#

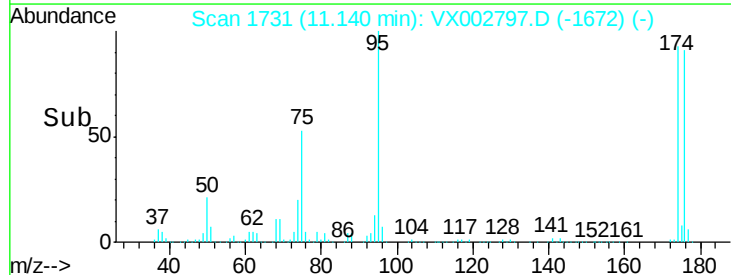
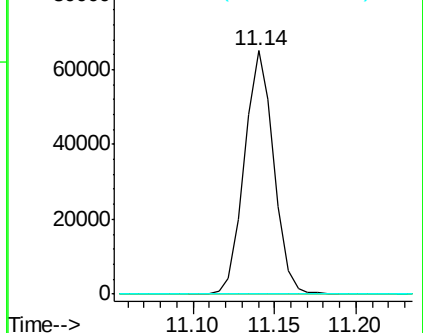
89 0.0 38.2 57.2#

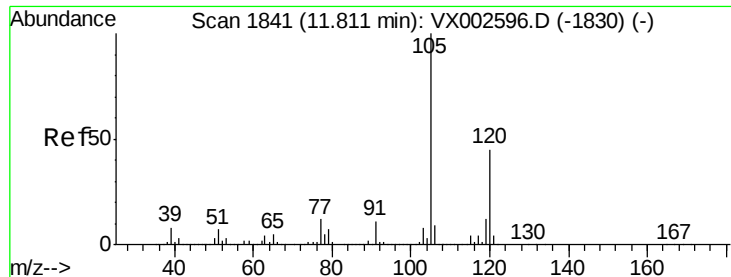


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#84

1,2,4-Trimethylbenzene

Concen: 0.41 ug/l

RT: 11.81 min Scan# 1841

Delta R.T. 0.00 min

Lab File: VX002797.D

Acq: 21 Jun 2018 19:09

Instrument :

MSVOA_X

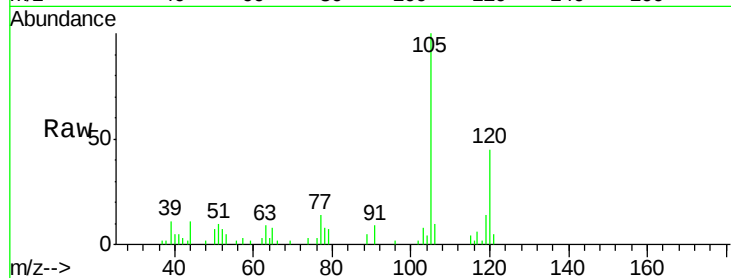
ClientSampled :

Tot Ion:105 Resp: 3901

Ion Ratio Lower Upper

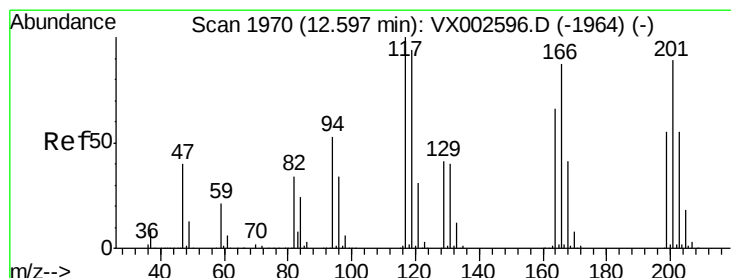
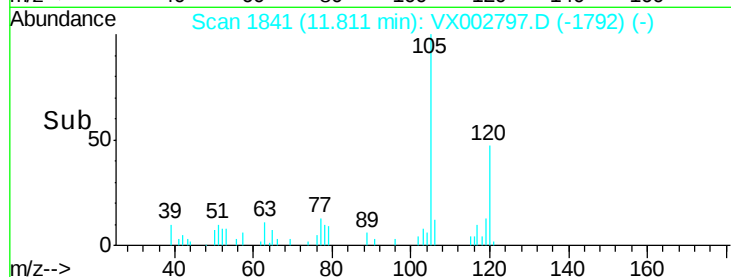
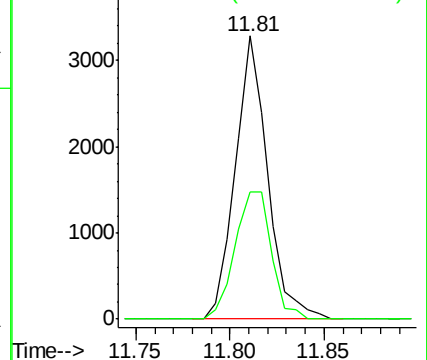
105 100

120 50.8 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: 2.76 ug/l

RT: 12.59 min Scan# 1969

Delta R.T. -0.01 min

Lab File: VX002797.D

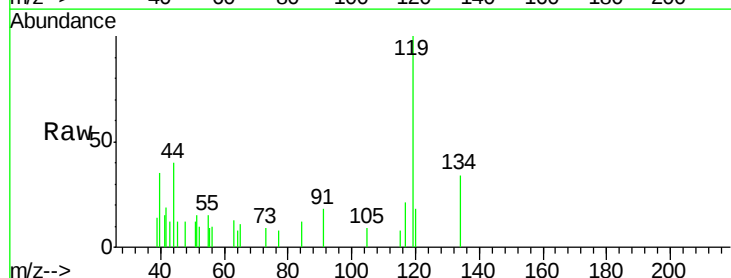
Acq: 21 Jun 2018 19:09

Tgt Ion:117 Resp: 215

Ion Ratio Lower Upper

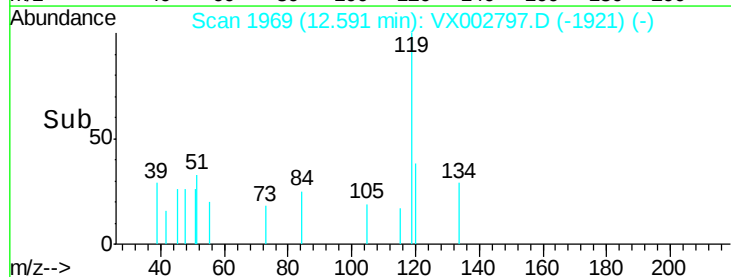
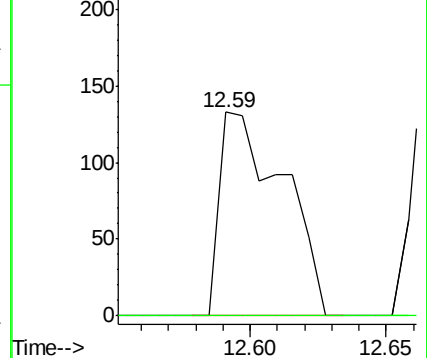
117 100

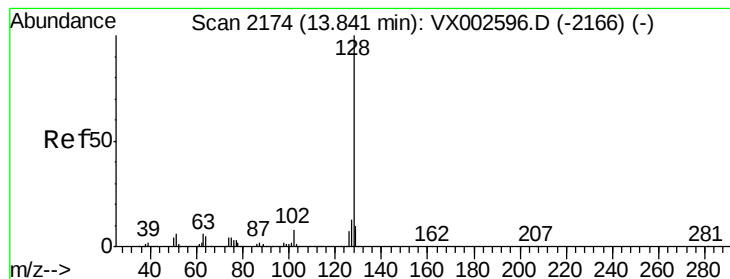
201 0.0 49.0 147.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V





#95

Naphthalene

Concen: 3.54 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. 0.00 min

Lab File: VX002797.D

Acq: 21 Jun 2018 19:09

Instrument :

MSVOA_X

ClientSampleId :

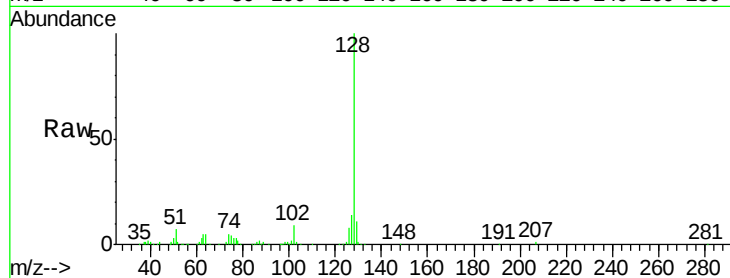
Tot Ion:128 Resp: 38838

Ion Ratio Lower Upper

128 100

127 13.6 10.4 15.6

129 12.0 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

