

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062118\
 Data File : VX002789.D
 Acq On : 21 Jun 2018 15:36
 Operator : JC/MD
 Sample : J3617-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 22 01:10:11 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	226555	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	320484	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	302769	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	174174	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	155676	45.22	ug/l	0.00
Spiked Amount			Recovery	=	90.44%	
35) Dibromofluoromethane	5.51	113	121198	47.38	ug/l	0.00
Spiked Amount			Recovery	=	94.76%	
50) Toluene-d8	8.72	98	455299	46.88	ug/l	0.00
Spiked Amount			Recovery	=	93.76%	
62) 4-Bromofluorobenzene	11.14	95	163257	44.36	ug/l	0.00
Spiked Amount			Recovery	=	88.72%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	394	0.22	ug/l #	59
8) Diethyl Ether	2.18	74	406	0.22	ug/l	76
10) Methyl Iodide	2.53	142	1184	5.47	ug/l #	40
11) Tert butyl alcohol	3.07	59	545	0.77	ug/l #	1
13) Acrolein	2.29	56	338	7.85	ug/l #	58
16) Acetone	2.45	43	144276	94.99	ug/l	100
18) Methyl Acetate	2.78	43	19421	4.80	ug/l	94
20) Methylene Chloride	2.86	84	7291	2.34	ug/l	97
25) 2-Butanone	4.71	43	97178	48.72	ug/l	99
29) Tetrahydrofuran	5.17	42	1009	0.77	ug/l #	66
31) Cyclohexane	5.67	56	4671	1.15	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	15788	4.64	ug/l #	51
37) Ethyl Acetate	4.71	43	97178	25.22	ug/l #	70
38) Carbon Tetrachloride	5.67	117	20591	6.08	ug/l #	15
49) 1,4-Dioxane	7.68	88	19	0.31	ug/l #	1
51) 4-Methyl-2-Pentanone	8.65	43	2206	0.54	ug/l #	82
53) t-1,3-Dichloropropene	8.45	75	24	2.40	ug/l #	43
54) cis-1,3-Dichloropropene	9.04	75	93	3.23	ug/l #	32
59) 2-Hexanone	9.50	43	34990	11.33	ug/l	100
65) Chlorobenzene	10.14	112	1546	0.21	ug/l	100
76) 1,2,3-Trichloropropane	11.14	75	86926	26.45	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	86926	81.73	ug/l #	7
90) Hexachloroethane	12.72	117	44	2.65	ug/l #	1

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.01 min

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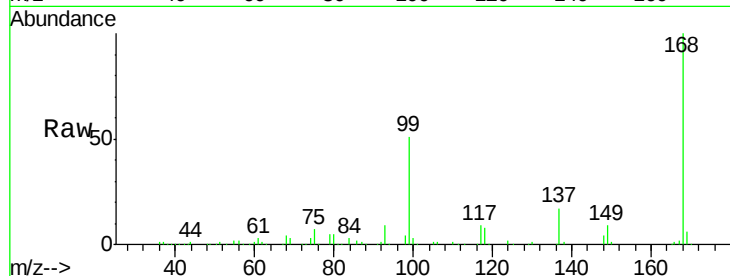
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 226555

Ion Ratio Lower Upper

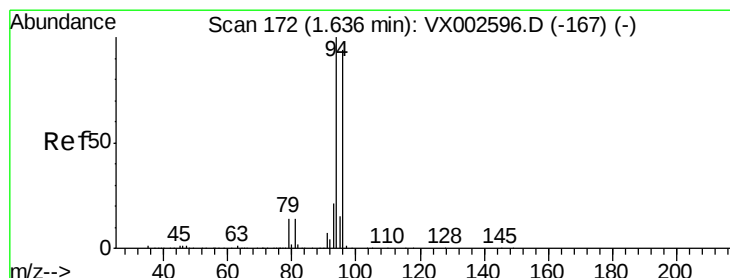
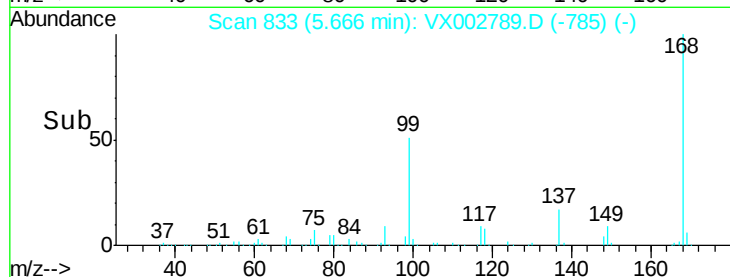
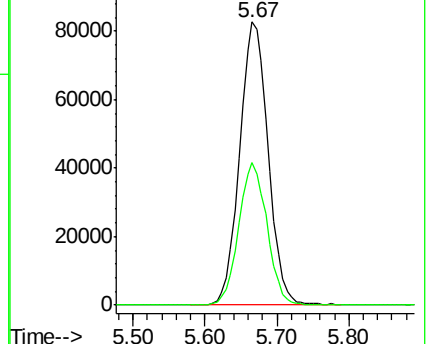
168 100

99 50.6 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: 0.22 ug/l

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX002789.D

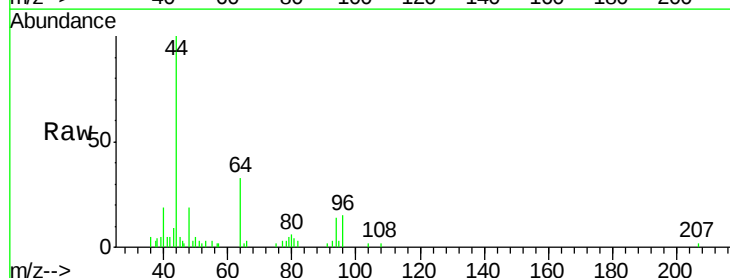
Acq: 21 Jun 2018 15:36

Tgt Ion: 94 Resp: 394

Ion Ratio Lower Upper

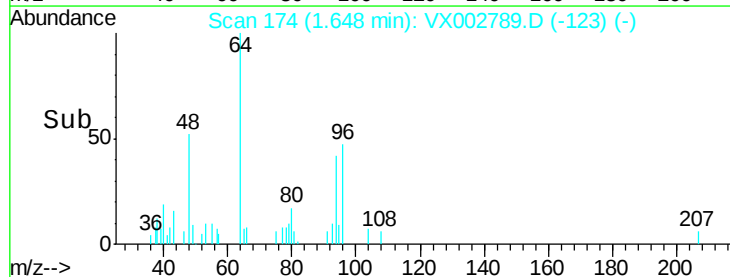
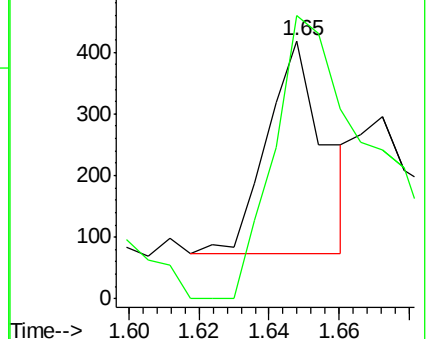
94 100

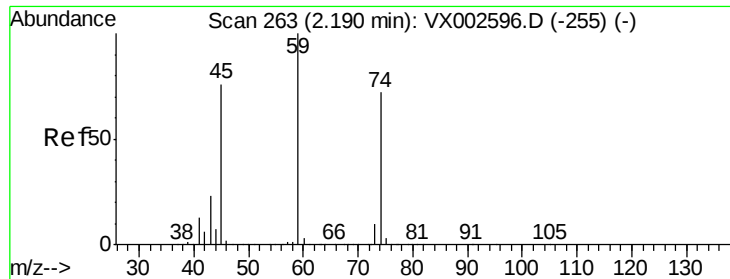
96 133.0 74.9 112.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

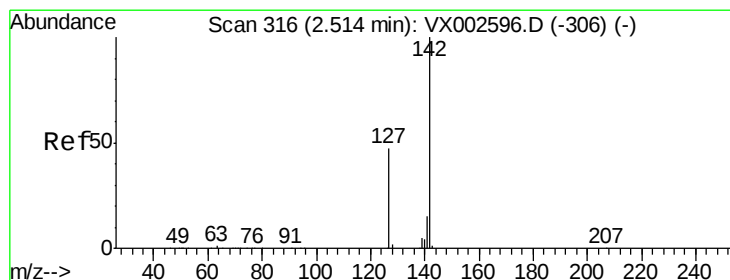
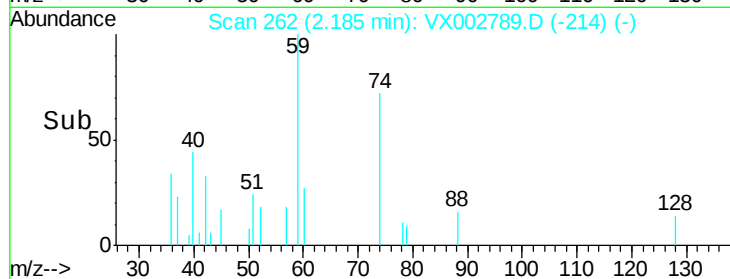
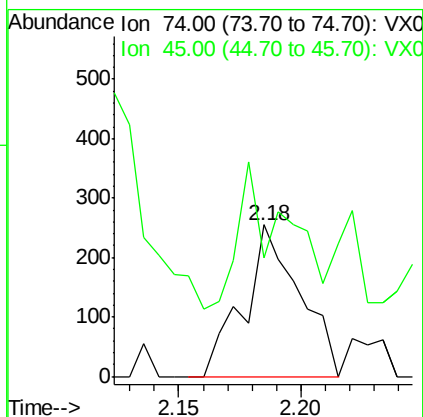
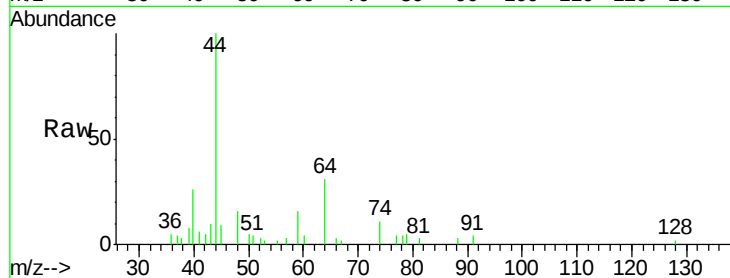




#8
Diethyl Ether
Concen: 0.22 ug/l
RT: 2.18 min Scan# 262
Delta R.T. -0.01 min
Lab File: VX002789.D
Acq: 21 Jun 2018 15:36

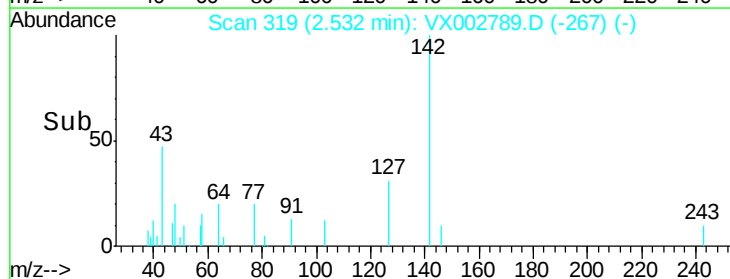
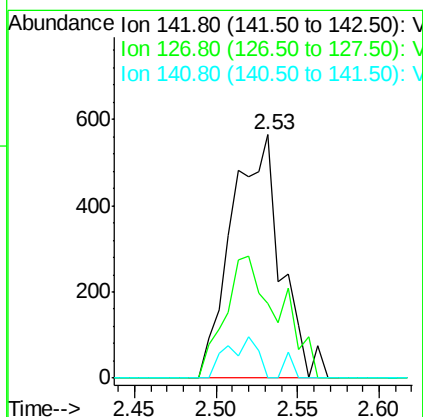
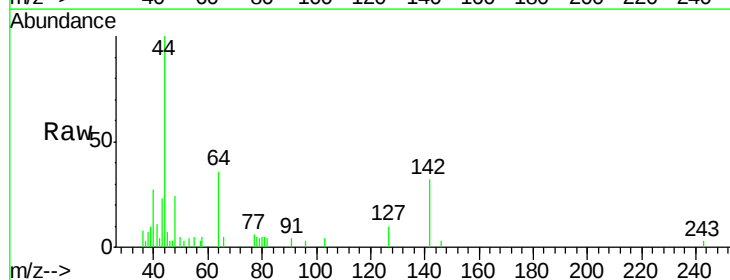
Instrument :
MSVOA_X
ClientSampled :

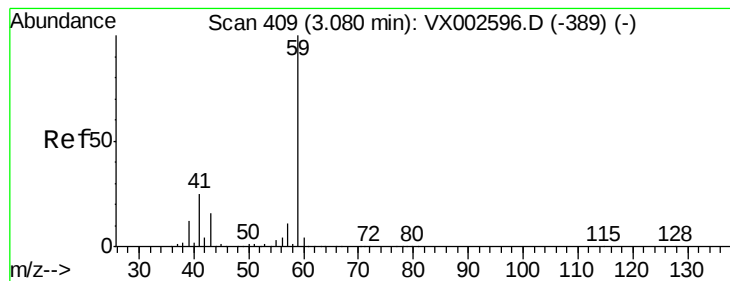
Tot Ion: 74 Resp: 406
Ion Ratio Lower Upper
74 100
45 81.8 53.1 159.4



#10
Methyl Iodide
Concen: 5.47 ug/l
RT: 2.53 min Scan# 319
Delta R.T. 0.02 min
Lab File: VX002789.D
Acq: 21 Jun 2018 15:36

Tgt Ion:142 Resp: 1184
Ion Ratio Lower Upper
142 100
127 0.0 36.6 55.0#
141 1.9 11.3 16.9#



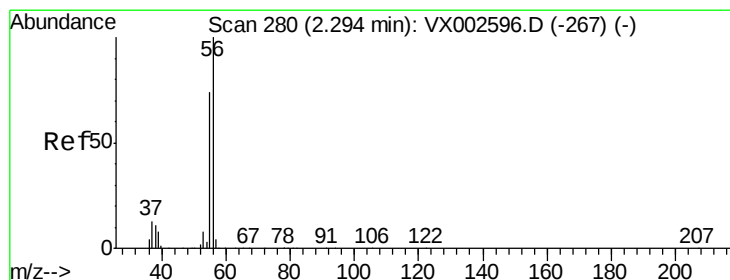
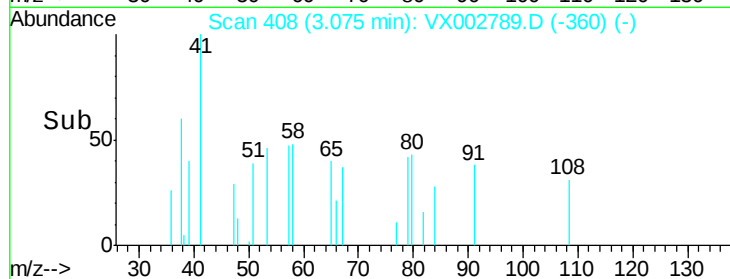
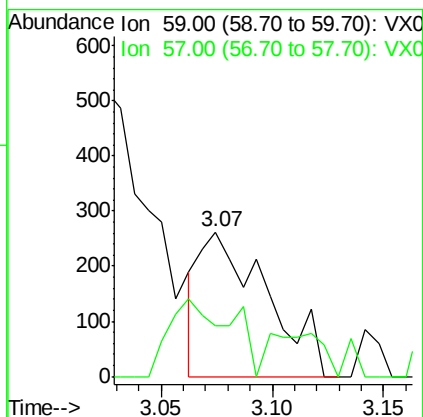
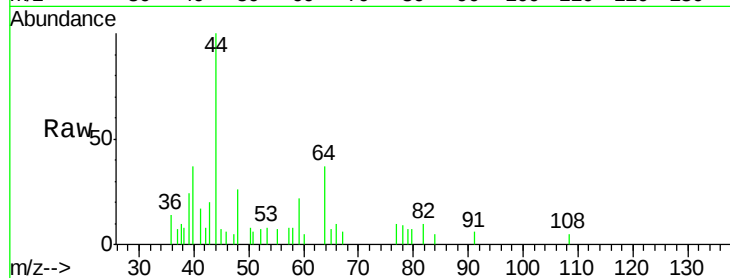


#11

Tert butyl alcohol
Concen: 0.77 ug/l
RT: 3.07 min Scan# 408
Delta R.T. -0.01 min
Lab File: VX002789.D
Acq: 21 Jun 2018 15:36

Instrument :
MSVOA_X
ClientSampled :

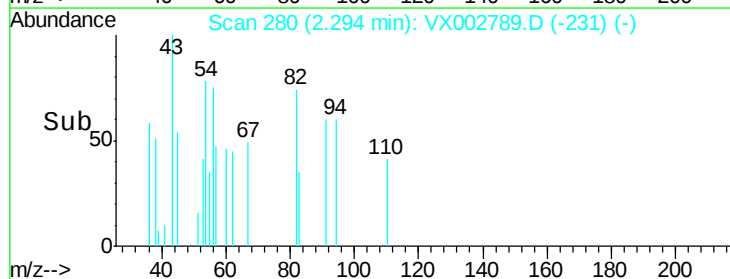
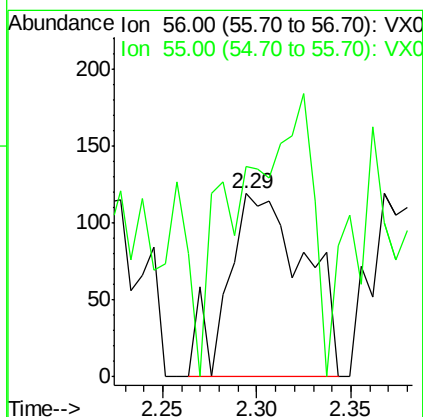
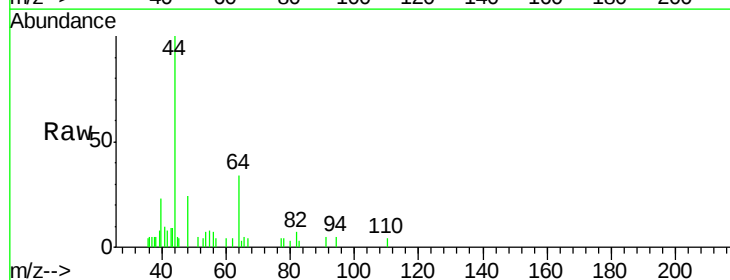
Tot Ion: 59 Resp: 545
Ion Ratio Lower Upper
59 100
57 49.5 8.2 12.2#

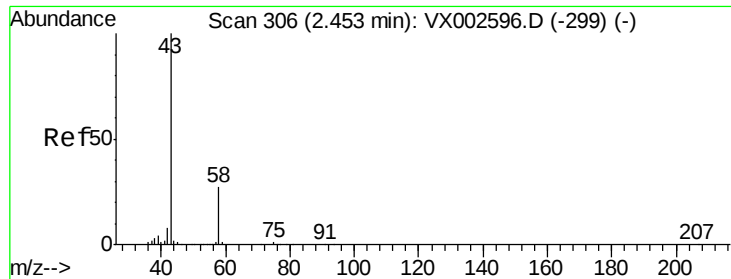


#13

Acrolein
Concen: 7.85 ug/l
RT: 2.29 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX002789.D
Acq: 21 Jun 2018 15:36

Tgt Ion: 56 Resp: 338
Ion Ratio Lower Upper
56 100
55 36.7 57.0 85.4#





#16

Acetone

Concen: 94.99 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002789.D

Acq: 21 Jun 2018 15:36

Instrument :

MSVOA_X

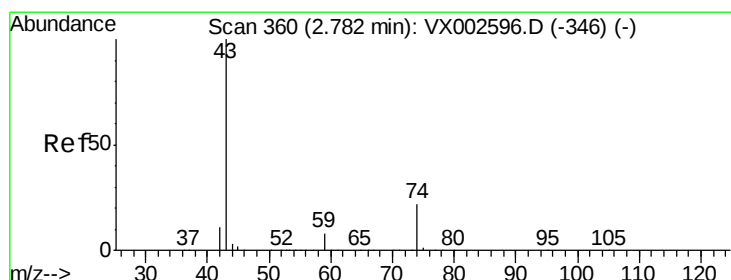
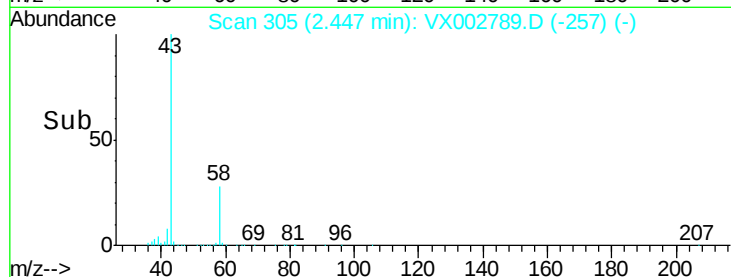
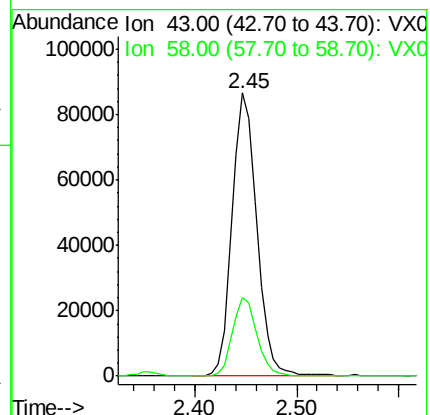
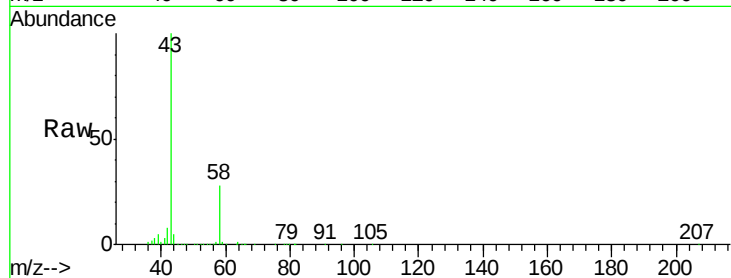
ClientSampleId :

Tot Ion: 43 Resp: 144276

Ion Ratio Lower Upper

43 100

58 27.6 22.1 33.1



#18

Methyl Acetate

Concen: 4.80 ug/l

RT: 2.78 min Scan# 360

Delta R.T. 0.00 min

Lab File: VX002789.D

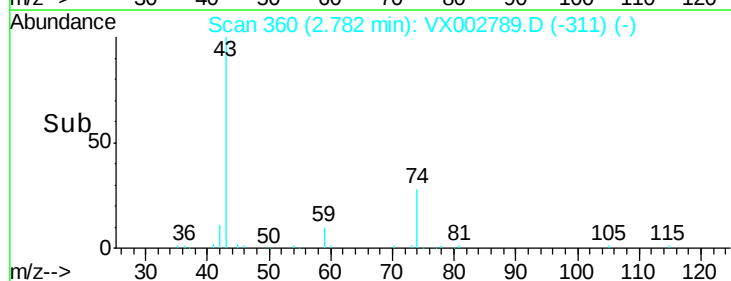
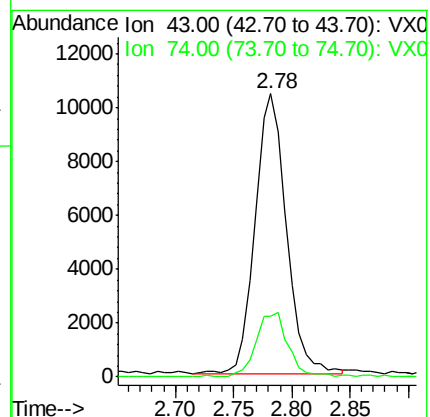
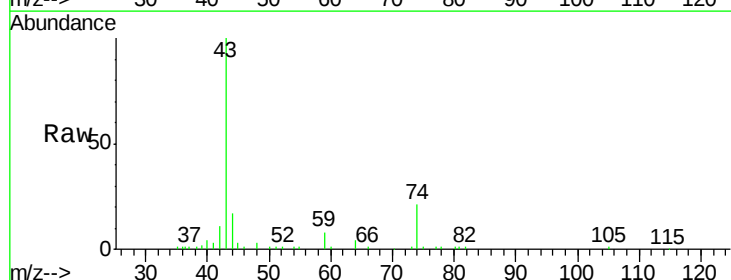
Acq: 21 Jun 2018 15:36

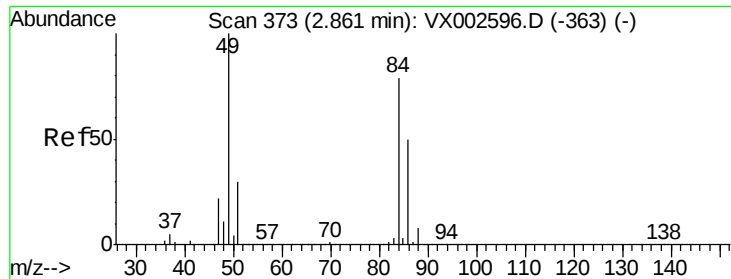
Tgt Ion: 43 Resp: 19421

Ion Ratio Lower Upper

43 100

74 23.7 16.7 25.1

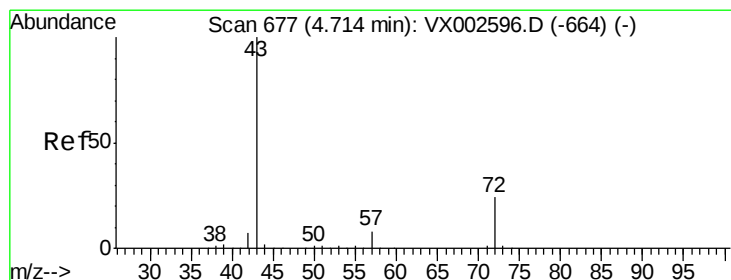
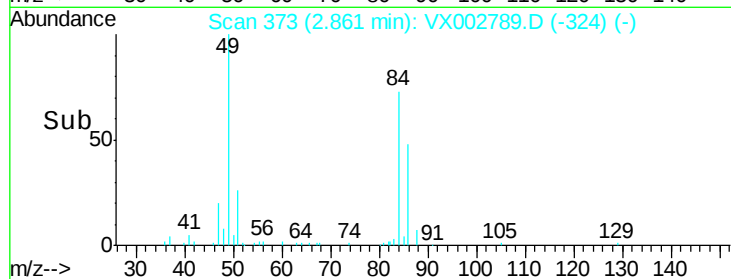
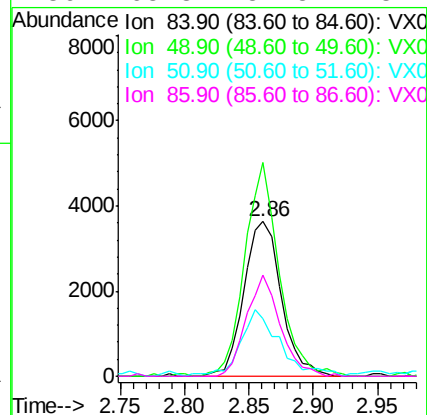
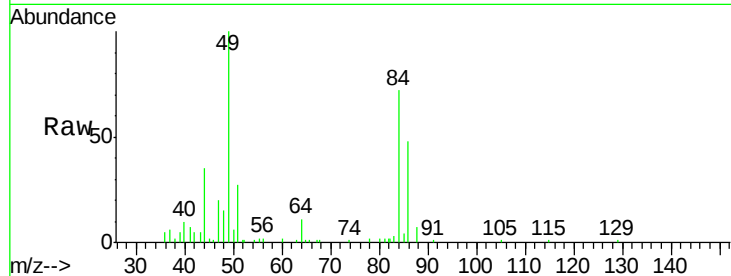




#20
Methvlene Chloride
Concen: 2.34 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX002789.D
Acq: 21 Jun 2018 15:36

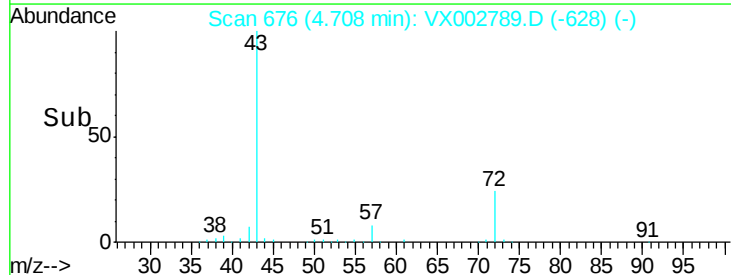
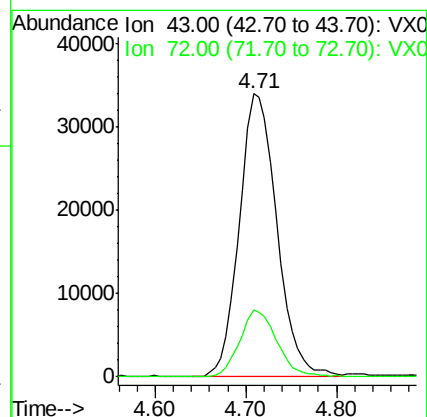
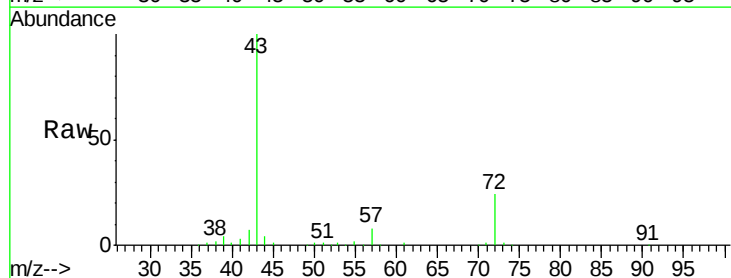
Instrument :
MSVOA_X
ClientSampleId :

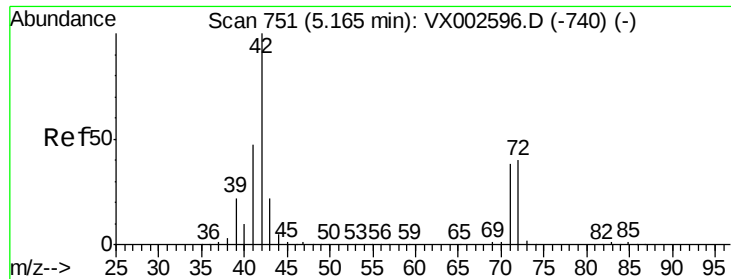
Tot Ion: 84 Resp: 7291
Ion Ratio Lower Upper
84 100
49 138.0 107.8 161.6
51 37.0 32.8 49.2
86 65.8 52.5 78.7



#25
2-Butanone
Concen: 48.72 ug/l
RT: 4.71 min Scan# 676
Delta R.T. -0.01 min
Lab File: VX002789.D
Acq: 21 Jun 2018 15:36

Tgt Ion: 43 Resp: 97178
Ion Ratio Lower Upper
43 100
72 23.7 18.5 27.7

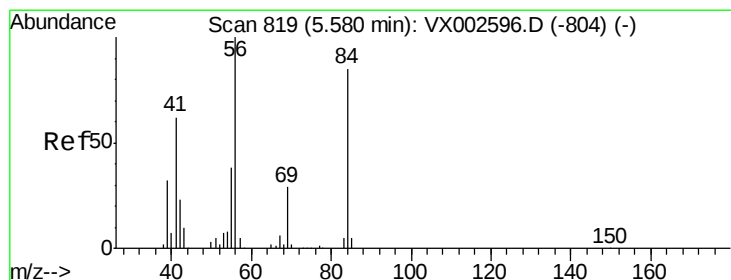
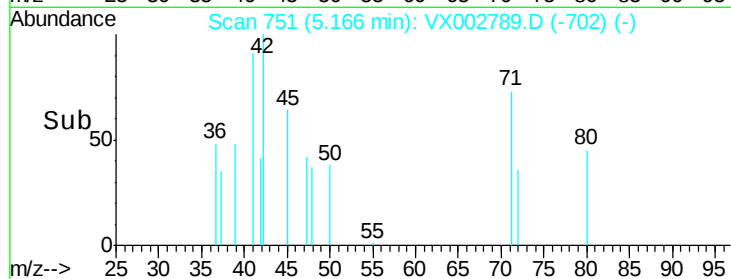
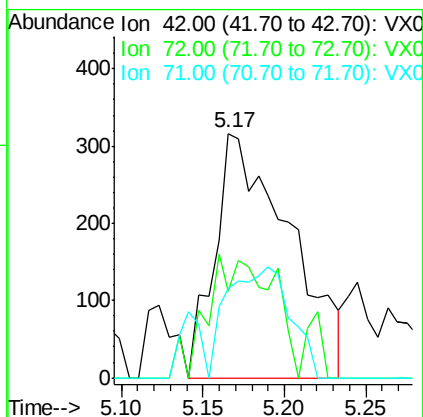
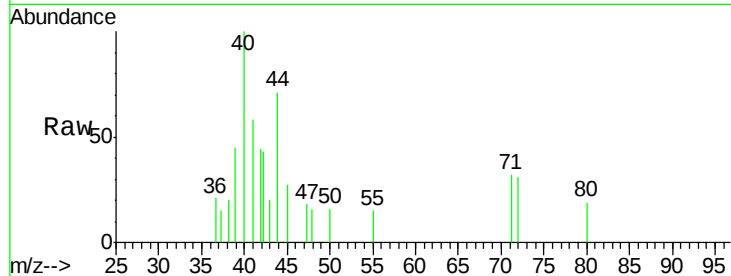




#29
Tetrahydrofuran
Concen: 0.77 ug/l
RT: 5.17 min Scan# 751
Delta R.T. 0.00 min
Lab File: VX002789.D
Acq: 21 Jun 2018 15:36

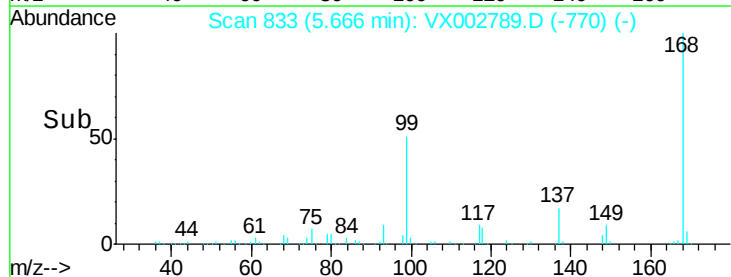
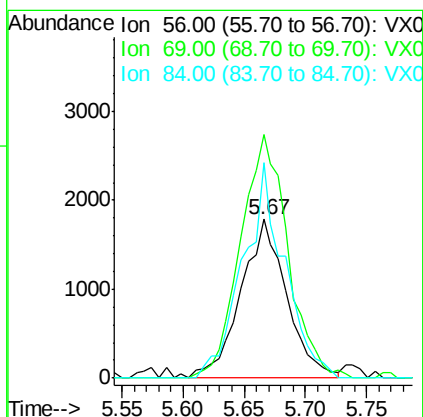
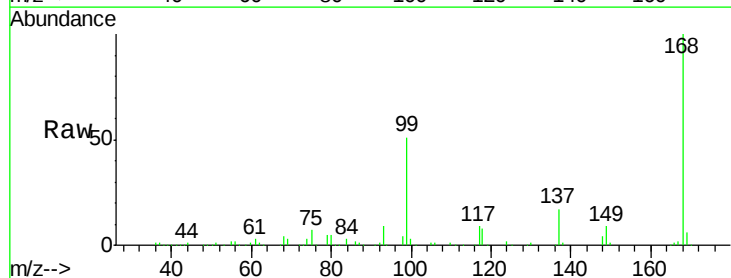
Instrument :
MSVOA_X
ClientSampled :

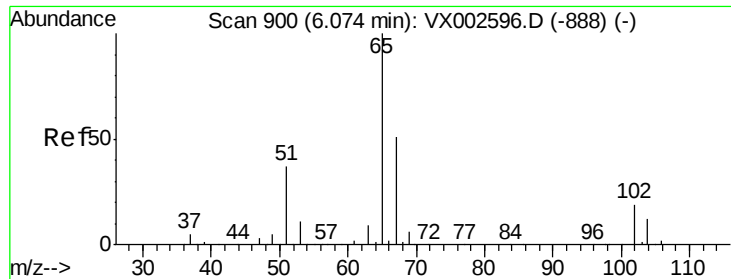
Tot Ion: 42 Resp: 1009
Ion Ratio Lower Upper
42 100
72 43.9 32.0 48.0
71 0.0 30.1 45.1#



#31
Cyclohexane
Concen: 1.15 ug/l
RT: 5.67 min Scan# 833
Delta R.T. 0.09 min
Lab File: VX002789.D
Acq: 21 Jun 2018 15:36

Tgt Ion: 56 Resp: 4671
Ion Ratio Lower Upper
56 100
69 153.3 23.7 35.5#
84 136.0 64.1 96.1#

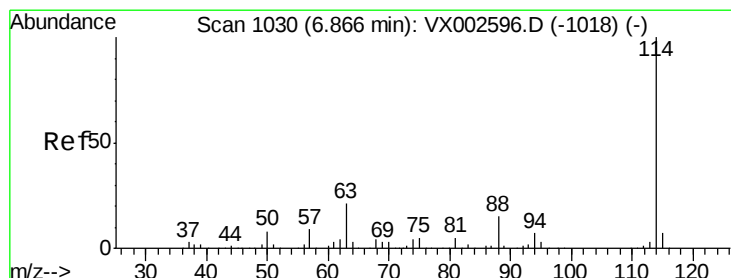
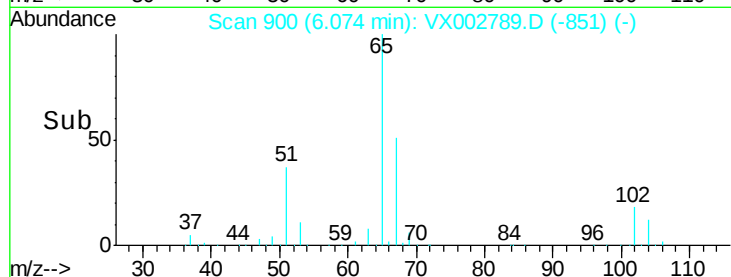
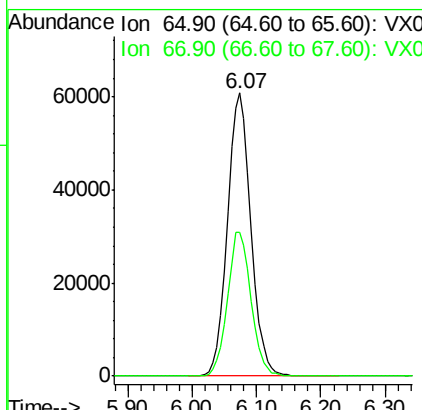
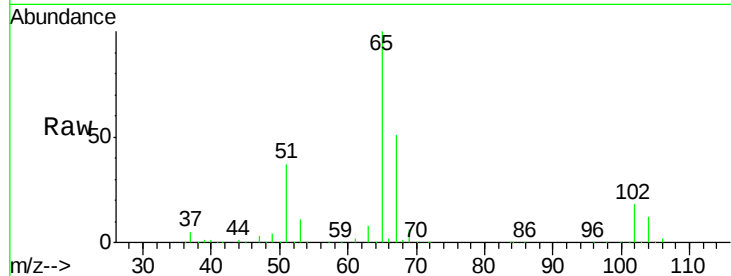




#33
 1,2-Dichloroethane-d4
 Concen: 45.22 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.00 min
 Lab File: VX002789.D
 Acq: 21 Jun 2018 15:36

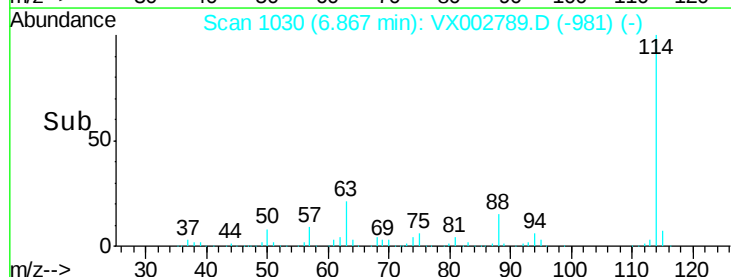
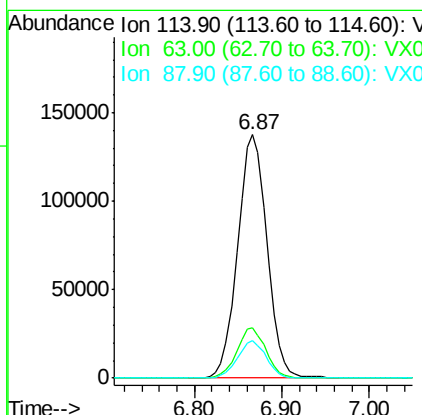
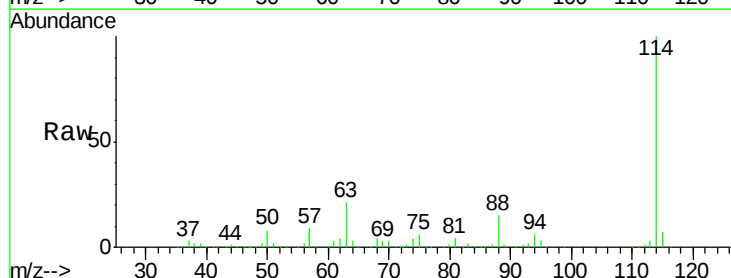
Instrument :
 MSVOA_X
 ClientSampleId :

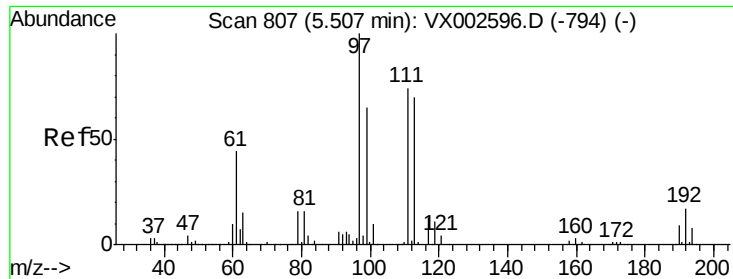
Tot Ion: 65 Resp: 155676
 Ion Ratio Lower Upper
 65 100
 67 51.2 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX002789.D
 Acq: 21 Jun 2018 15:36

Tgt Ion: 114 Resp: 320484
 Ion Ratio Lower Upper
 114 100
 63 20.6 0.0 41.4
 88 15.3 0.0 30.0

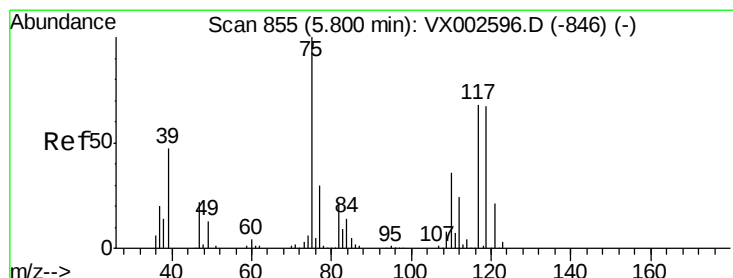
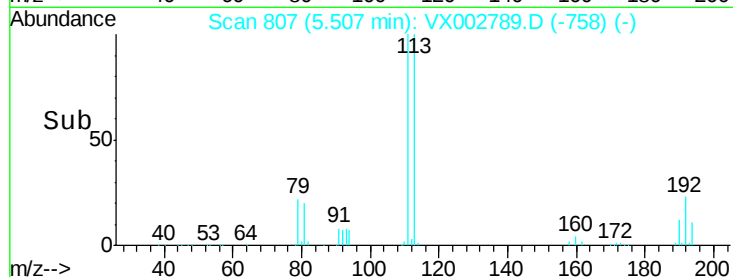
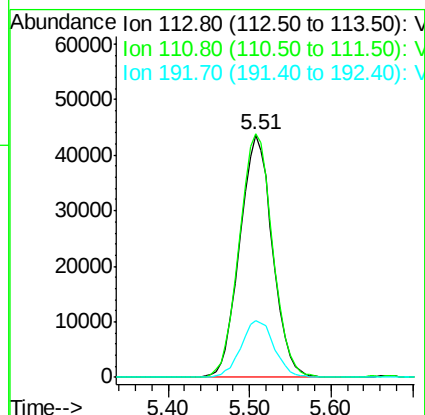
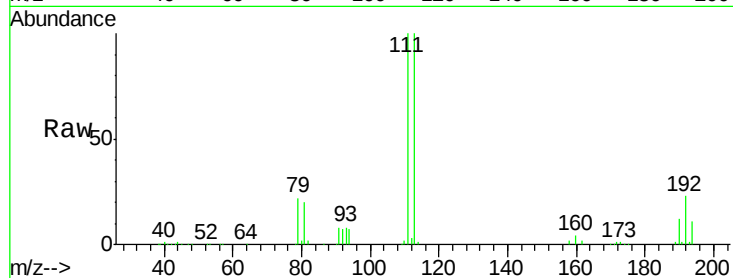




#35
 Dibromofluoromethane
 Concen: 47.38 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. 0.00 min
 Lab File: VX002789.D
 Acq: 21 Jun 2018 15:36

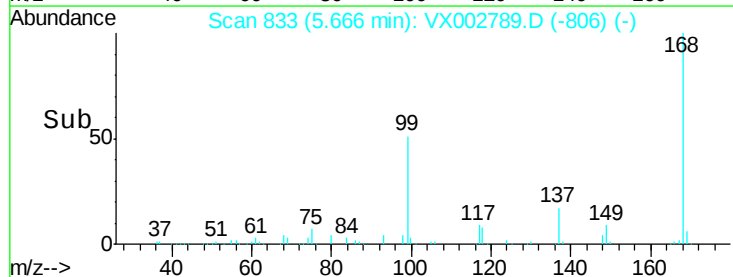
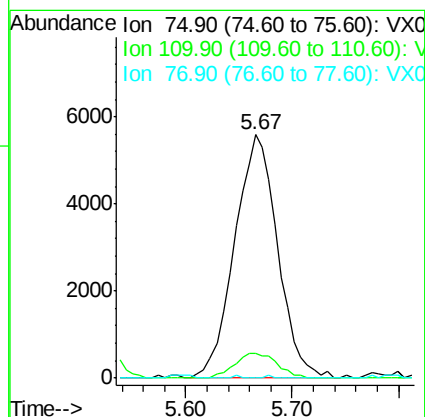
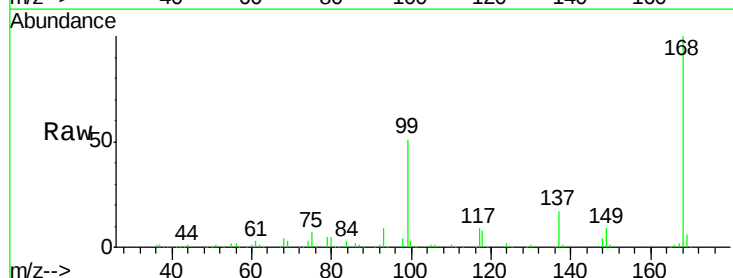
Instrument :
 MSVOA_X
 ClientSampled :

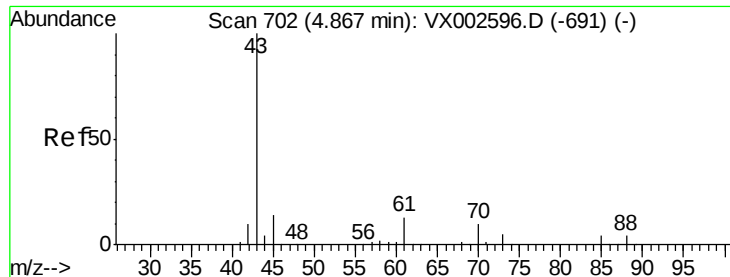
Tot Ion:113 Resp: 121198
 Ion Ratio Lower Upper
 113 100
 111 102.7 81.4 122.0
 192 23.8 19.1 28.7



#36
 1,1-Dichloropropene
 Concen: 4.64 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX002789.D
 Acq: 21 Jun 2018 15:36

Tgt Ion: 75 Resp: 15788
 Ion Ratio Lower Upper
 75 100
 110 10.2 18.1 54.4#
 77 0.2 24.3 36.5#





#37

Ethyl Acetate

Concen: 25.22 ug/l

RT: 4.71 min Scan# 676

Delta R.T. -0.16 min

Lab File: VX002789.D

Acq: 21 Jun 2018 15:36

Instrument :

MSVOA_X

ClientSampleId :

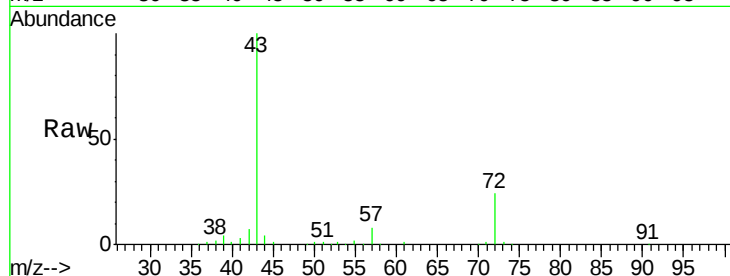
Tot Ion: 43 Resp: 97178

Ion Ratio Lower Upper

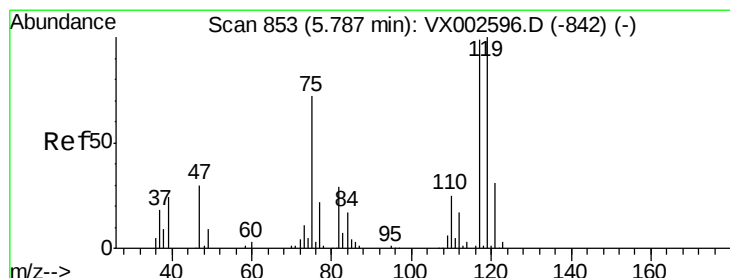
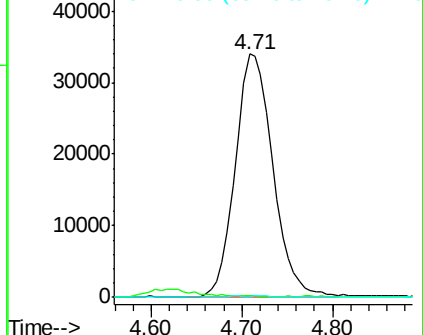
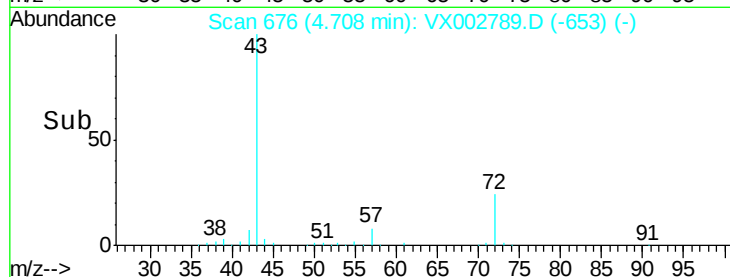
43 100

61 0.0 10.4 15.6#

70 0.3 7.6 11.4#



Abundance Ion 43.00 (42.70 to 43.70): VX002789.D (-653) (-)



#38

Carbon Tetrachloride

Concen: 6.08 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX002789.D

Acq: 21 Jun 2018 15:36

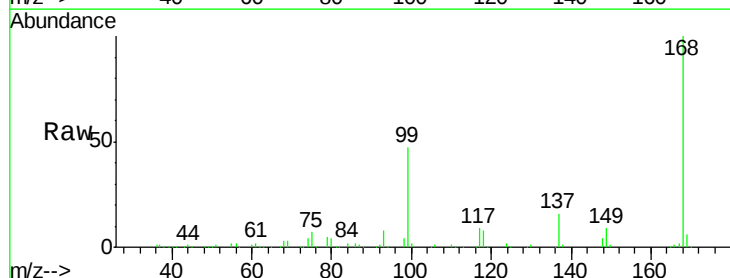
Tgt Ion: 117 Resp: 20591

Ion Ratio Lower Upper

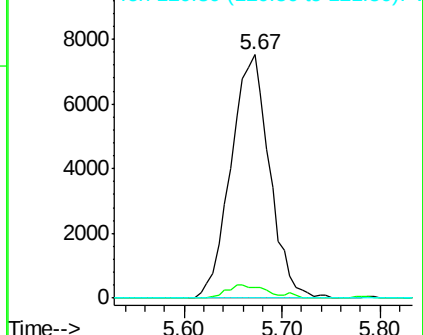
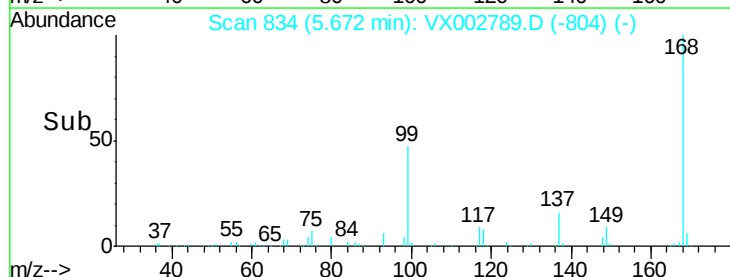
117 100

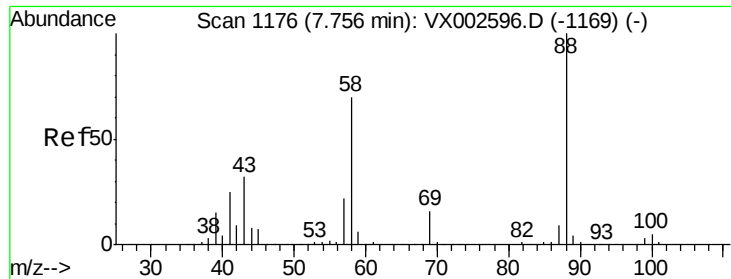
119 4.4 77.4 116.0#

121 0.0 24.4 36.6#



Abundance Ion 116.80 (116.50 to 117.50): VX002789.D (-804) (-)

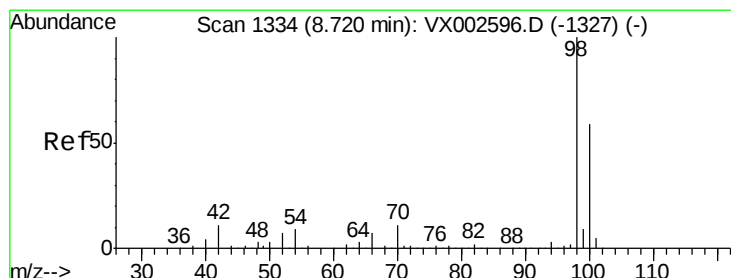
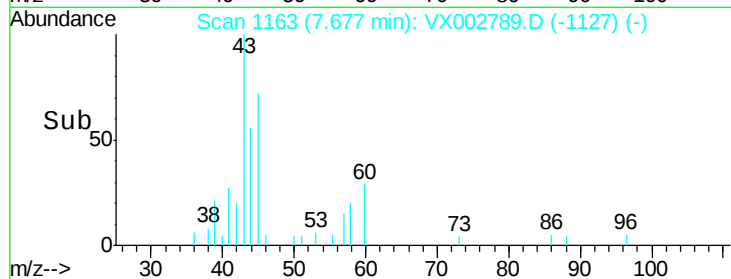
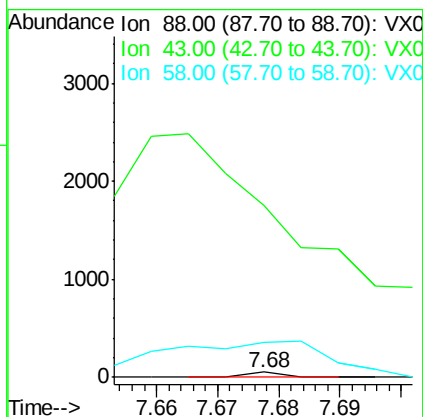
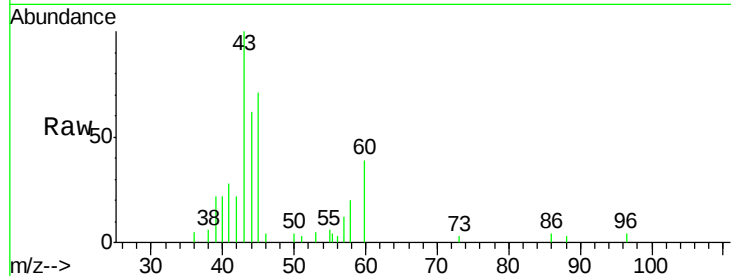




#49
1,4-Dioxane
Concen: 0.31 ug/l
RT: 7.68 min Scan# 1163
Delta R.T. -0.08 min
Lab File: VX002789.D
Acq: 21 Jun 2018 15:36

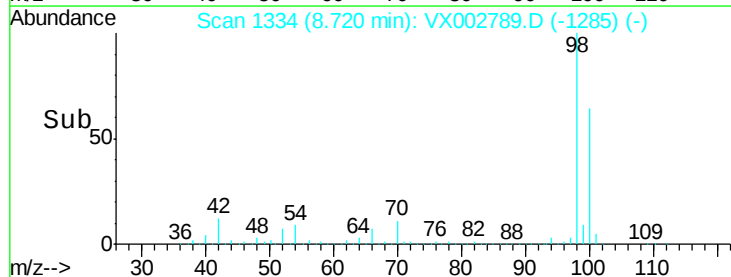
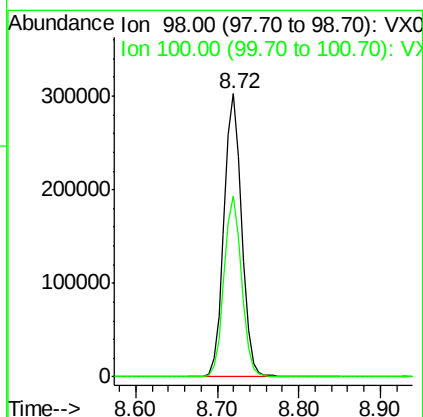
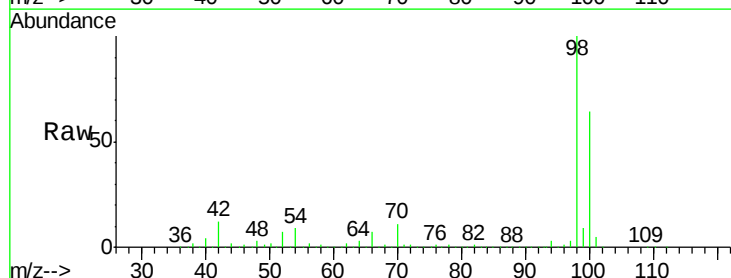
Instrument :
MSVOA_X
ClientSampleId :

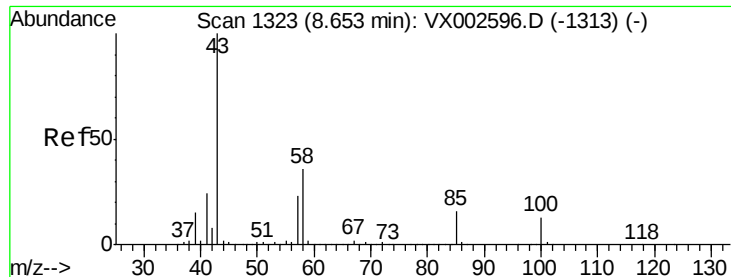
Tot Ion: 88 Resp: 19
Ion Ratio Lower Upper
88 100
43 21531.6 29.8 44.6#
58 4400.0 57.1 85.7#



#50
Toluene-d8
Concen: 46.88 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002789.D
Acq: 21 Jun 2018 15:36

Tgt Ion: 98 Resp: 455299
Ion Ratio Lower Upper
98 100
100 63.2 50.9 76.3





#51

4-Methyl-2-Pentanone

Concen: 0.54 ug/l

RT: 8.65 min Scan# 1323

Delta R.T. 0.00 min

Lab File: VX002789.D

Acq: 21 Jun 2018 15:36

Instrument :

MSVOA_X

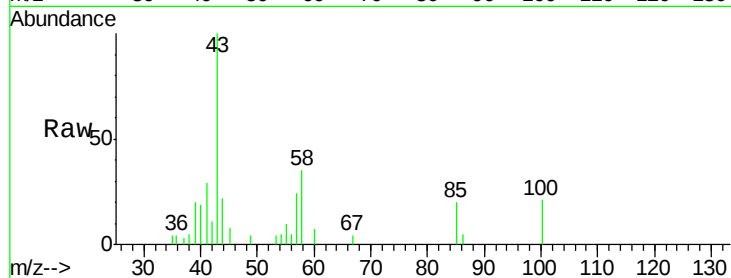
ClientSampled :

Tot Ion: 43 Resp: 2206

Ion Ratio Lower Upper

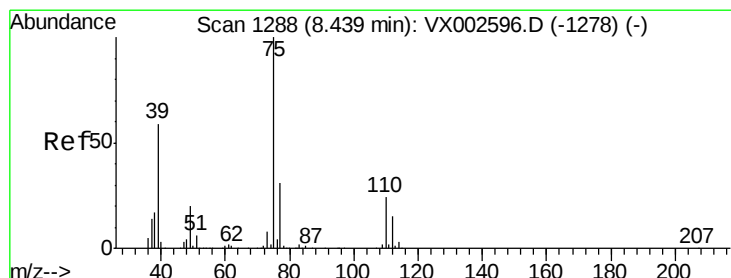
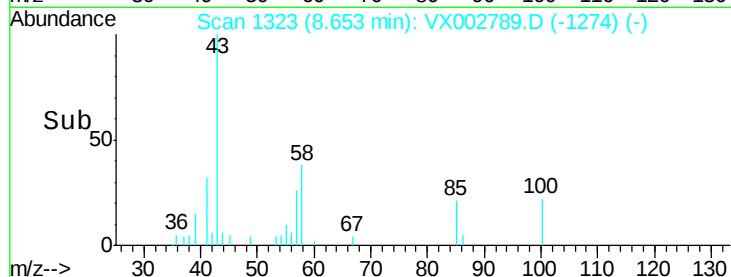
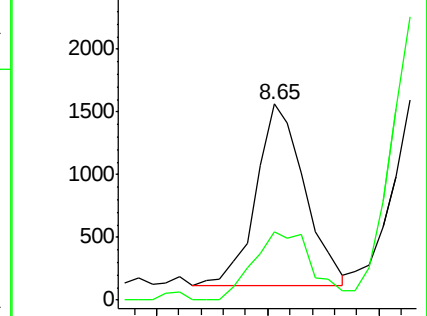
43 100

58 46.1 28.6 42.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#53

t-1,3-Dichloropropene

Concen: 2.40 ug/l

RT: 8.45 min Scan# 1289

Delta R.T. 0.01 min

Lab File: VX002789.D

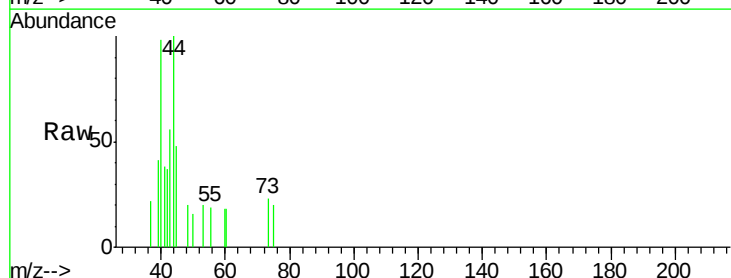
Acq: 21 Jun 2018 15:36

Tgt Ion: 75 Resp: 24

Ion Ratio Lower Upper

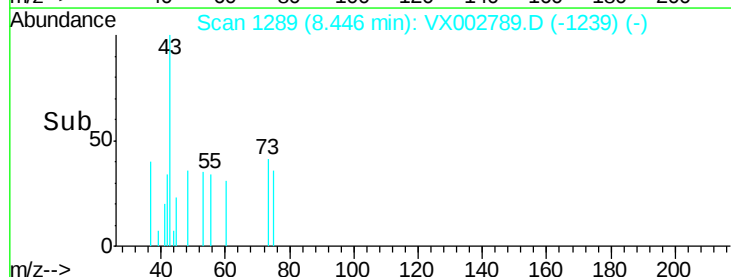
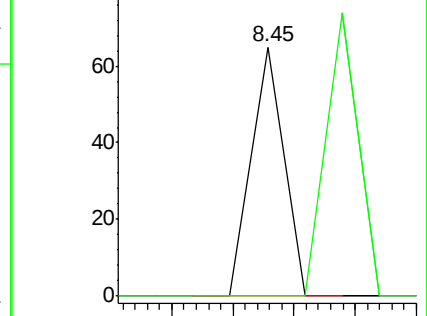
75 100

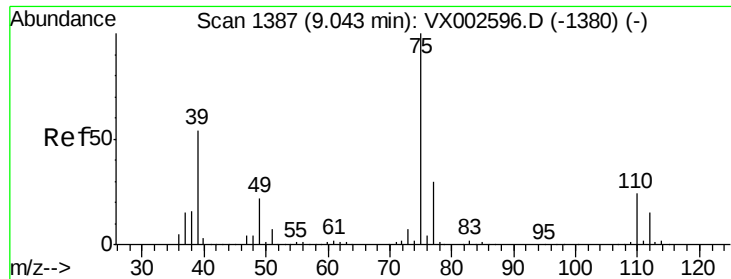
77 0.0 25.4 38.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0



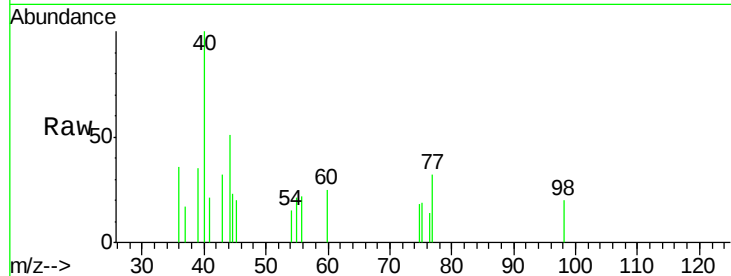


#54

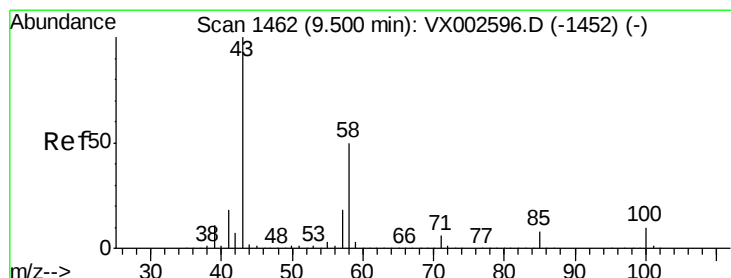
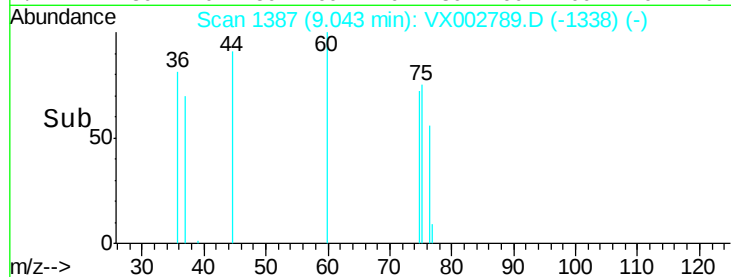
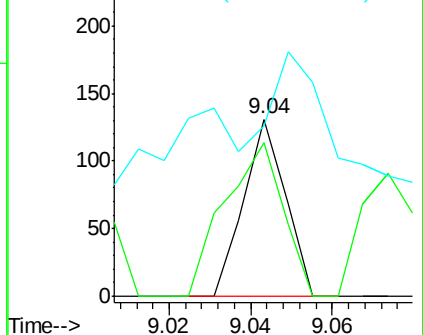
cis-1,3-Dichloropropene
Concen: 3.23 ug/l
RT: 9.04 min Scan# 1387
Delta R.T. 0.00 min
Lab File: VX002789.D
Acq: 21 Jun 2018 15:36

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 75 Resp: 93
Ion Ratio Lower Upper
75 100
77 87.0 24.8 37.2#
39 18.3 42.4 63.6#



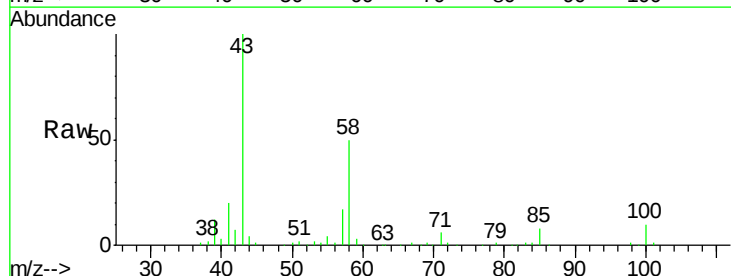
Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 76.90 (76.60 to 77.60): VX0
Ion 39.00 (38.70 to 39.70): VX0



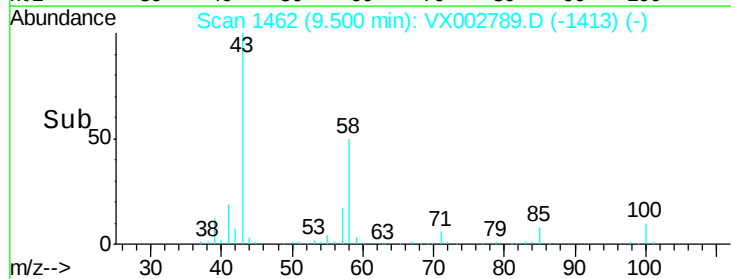
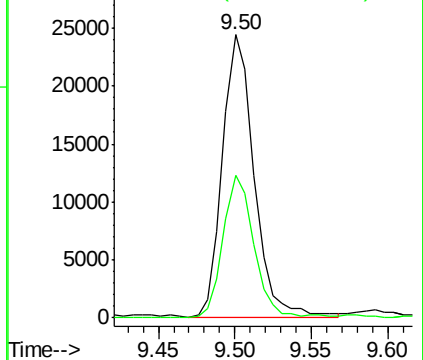
#59

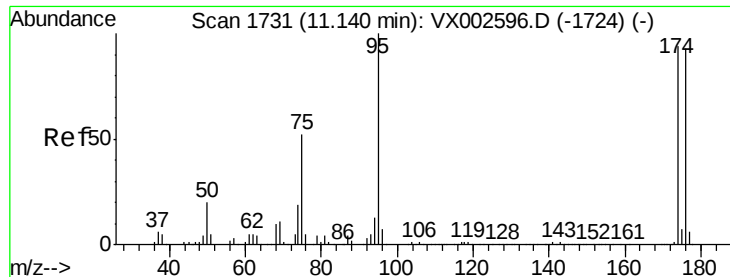
2-Hexanone
Concen: 11.33 ug/l
RT: 9.50 min Scan# 1462
Delta R.T. 0.00 min
Lab File: VX002789.D
Acq: 21 Jun 2018 15:36

Tgt Ion: 43 Resp: 34990
Ion Ratio Lower Upper
43 100
58 48.8 24.6 73.6



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

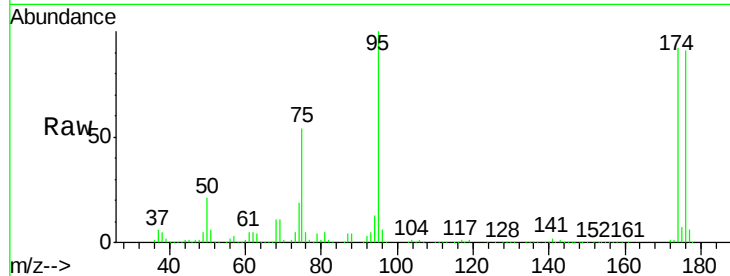




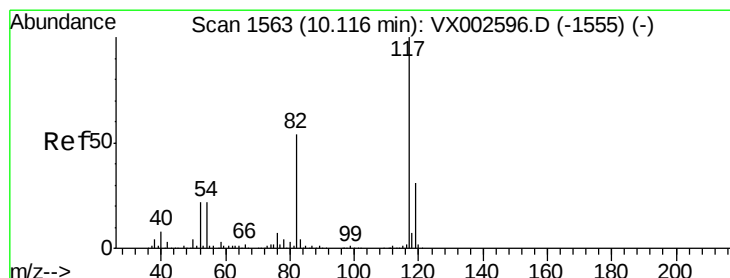
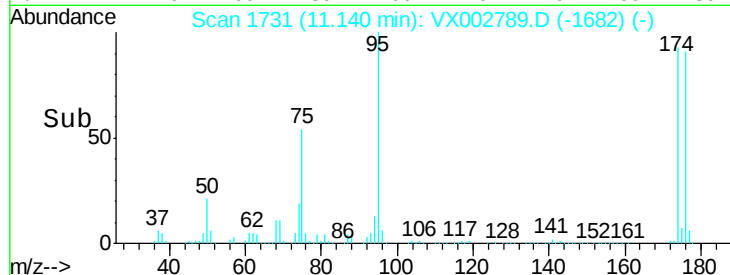
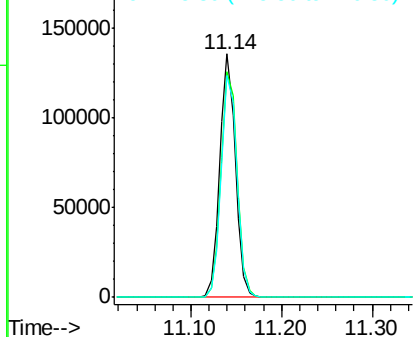
#62
4-Bromofluorobenzene
Concen: 44.36 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX002789.D
Acq: 21 Jun 2018 15:36

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 95 Resp: 163257
Ion Ratio Lower Upper
95 100
174 96.1 0.0 187.4
176 93.1 0.0 181.0

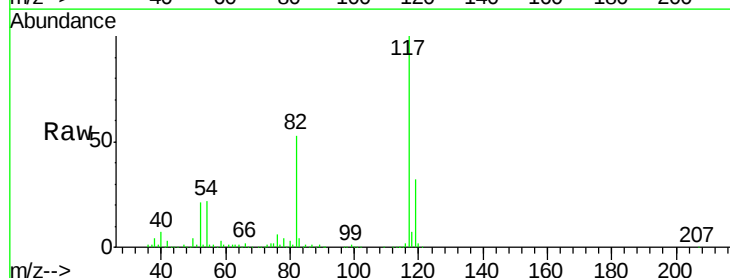


Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

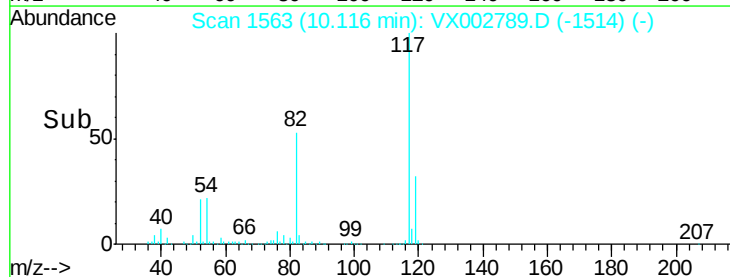
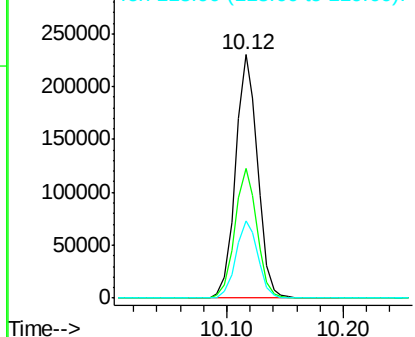


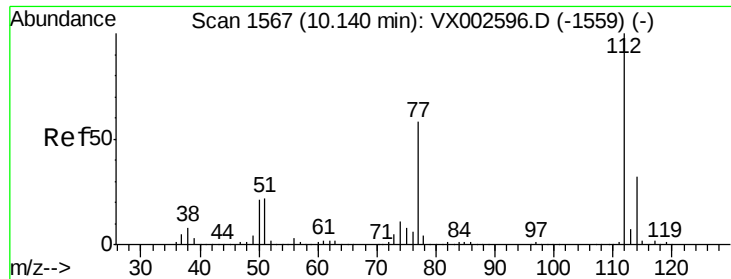
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX002789.D
Acq: 21 Jun 2018 15:36

Tgt Ion: 117 Resp: 302769
Ion Ratio Lower Upper
117 100
82 53.3 45.0 67.4
119 31.7 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

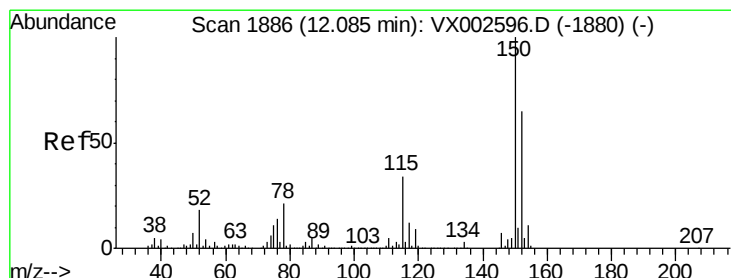
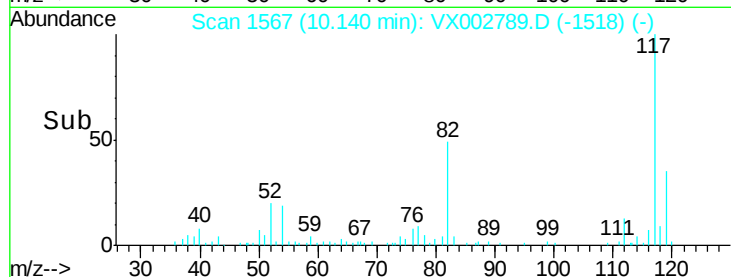
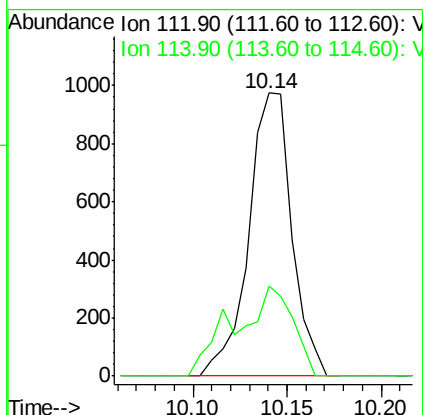
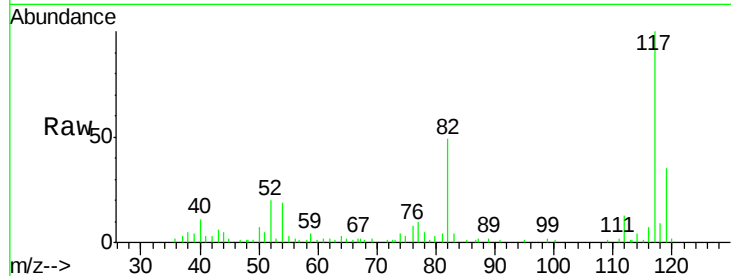




#65
Chlorobenzene
Concen: 0.21 ug/l
RT: 10.14 min Scan# 1567
Delta R.T. 0.00 min
Lab File: VX002789.D
Acq: 21 Jun 2018 15:36

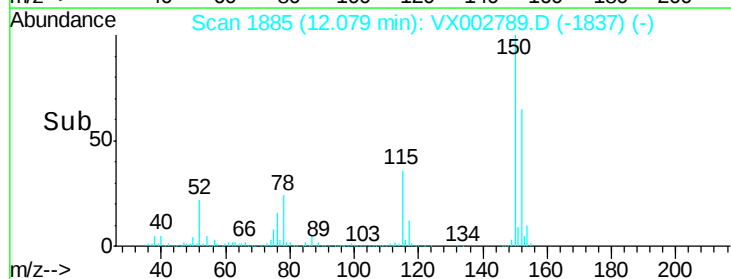
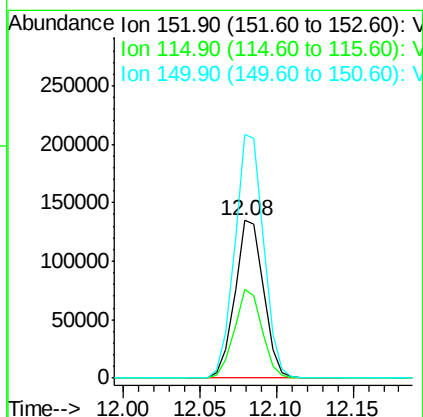
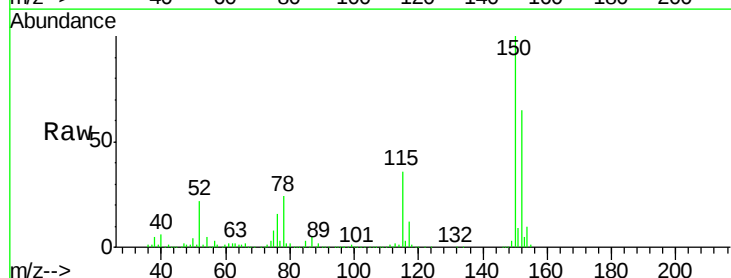
Instrument :
MSVOA_X
ClientSampled :

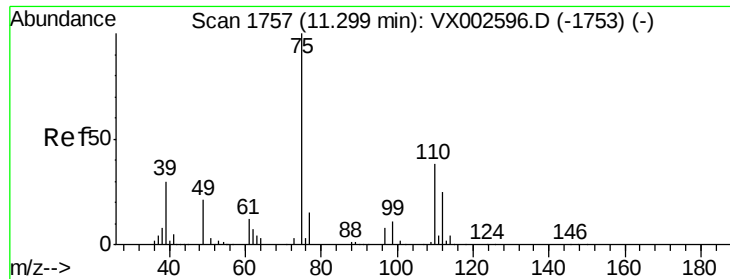
Tot Ion:112 Resp: 1546
Ion Ratio Lower Upper
112 100
114 31.8 25.3 37.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1885
Delta R.T. -0.01 min
Lab File: VX002789.D
Acq: 21 Jun 2018 15:36

Tgt Ion:152 Resp: 174174
Ion Ratio Lower Upper
152 100
115 54.3 40.1 120.2
150 155.9 0.0 347.2

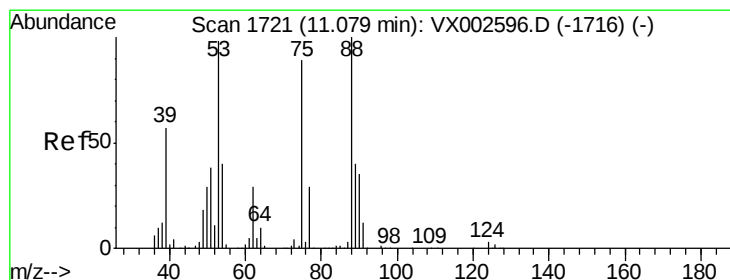
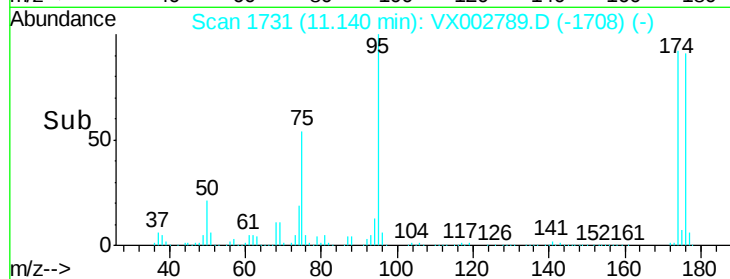
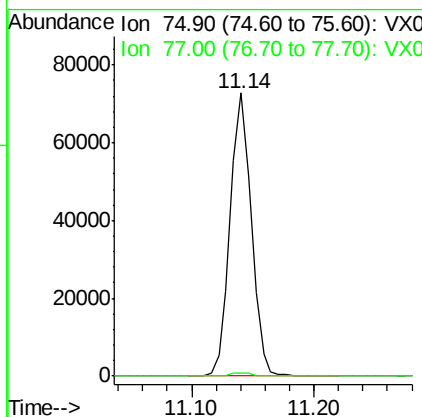
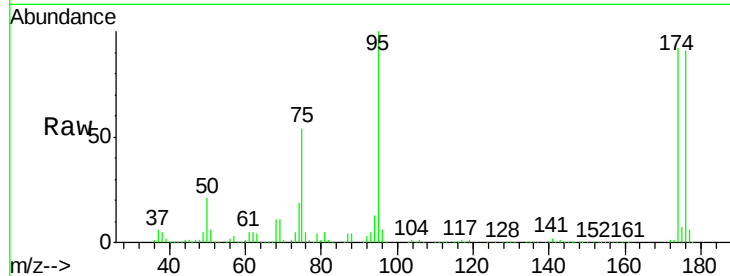




#76
 1,2,3-Trichloropropane
 Concen: 26.45 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX002789.D
 Acq: 21 Jun 2018 15:36

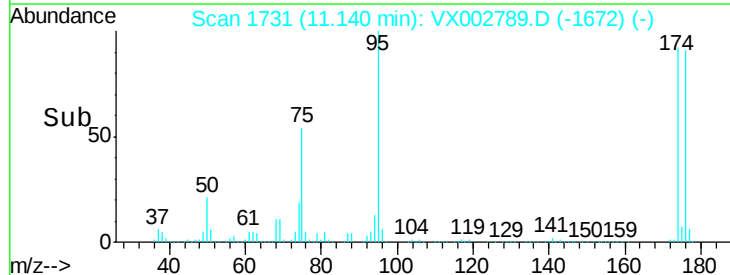
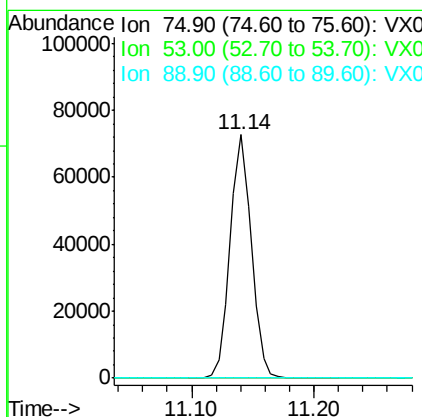
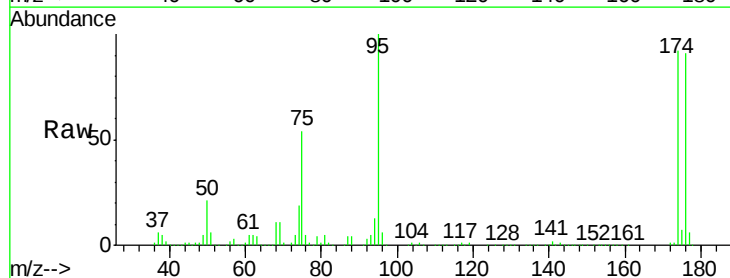
Instrument :
 MSVOA_X
 ClientSampled :

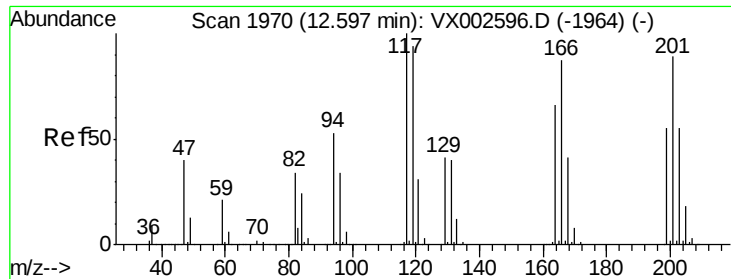
Tot Ion: 75 Resp: 86926
 Ion Ratio Lower Upper
 75 100
 77 1.4 22.8 68.3#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 81.73 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX002789.D
 Acq: 21 Jun 2018 15:36

Tgt Ion: 75 Resp: 86926
 Ion Ratio Lower Upper
 75 100
 53 0.2 86.8 130.2#
 89 0.0 38.2 57.2#





#90

Hexachloroethane

Concen: 2.65 ug/l

RT: 12.72 min Scan# 1990

Delta R.T. 0.12 min

Lab File: VX002789.D

Acq: 21 Jun 2018 15:36

Instrument :

MSVOA_X

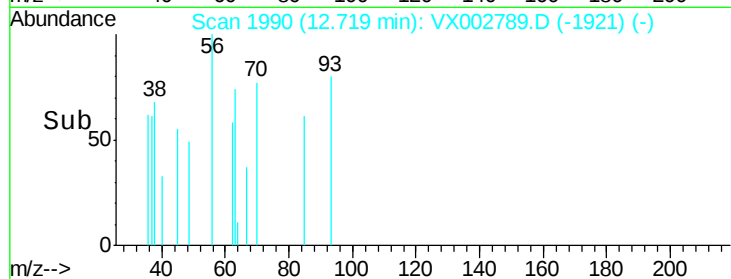
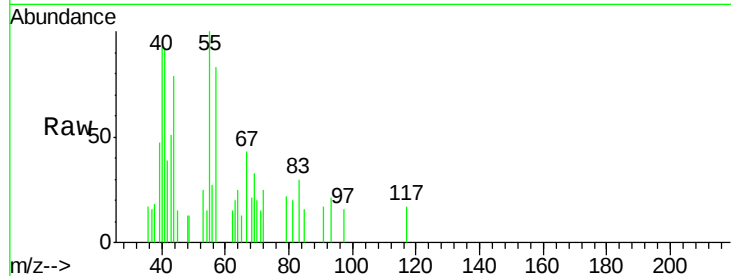
ClientSampleId :

Tot Ion:117 Resp: 44

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

