

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070318\
 Data File : VX003159.D
 Acq On : 03 Jul 2018 19:53
 Operator : JC/MD
 Sample : J3815-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

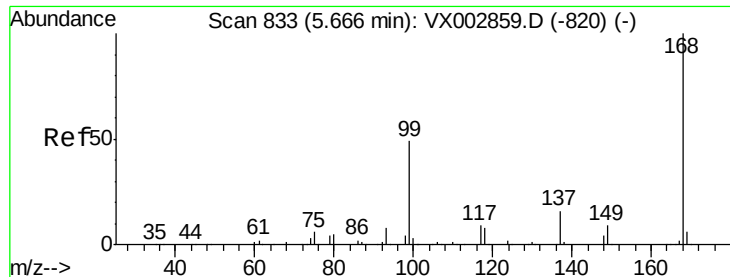
Quant Time: Jul 04 03:19:03 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062518W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 25 14:38:05 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	271945	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	373720	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	349028	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	198932	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	175785	46.77	ug/l	0.00
Spiked Amount			Recovery	=	93.54%	
35) Dibromofluoromethane	5.51	113	144823	48.93	ug/l	0.00
Spiked Amount			Recovery	=	97.86%	
50) Toluene-d8	8.72	98	532226	49.25	ug/l	0.00
Spiked Amount			Recovery	=	98.50%	
62) 4-Bromofluorobenzene	11.14	95	185456	44.50	ug/l	0.00
Spiked Amount			Recovery	=	89.00%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.33	85	21	Below Cal	#	43
3) Chloromethane	1.32	50	535	Below Cal		91
5) Bromomethane	1.66	94	1759	Below Cal		81
6) Chloroethane	1.65	64	455	Below Cal	#	52
10) Methyl Iodide	2.52	142	1584	6.68	ug/l	# 93
11) Tert butyl alcohol	3.07	59	2508	3.35	ug/l	# 79
13) Acrolein	2.30	56	207	4.72	ug/l	# 46
16) Acetone	2.45	43	13628	8.75	ug/l	# 89
18) Methyl Acetate	2.78	43	22142	5.09	ug/l	97
20) Methylene Chloride	2.86	84	23291	7.69	ug/l	94
25) 2-Butanone	4.71	43	10387	4.50	ug/l	98
29) Tetrahydrofuran	5.19	42	1433	0.97	ug/l	# 76
30) Chloroform	5.22	83	2579	0.46	ug/l	98
36) 1,1-Dichloropropene	5.67	75	17357	4.24	ug/l	# 51
38) Carbon Tetrachloride	5.67	117	23268	5.17	ug/l	# 16
40) Benzene	6.15	78	7221	0.61	ug/l	97
47) Bromodichloromethane	7.90	83	990	0.24	ug/l	# 84
48) Methyl methacrylate	7.72	41	3160	0.83	ug/l	# 22
49) 1,4-Dioxane	7.73	88	24	0.32	ug/l	# 1
51) 4-Methyl-2-Pentanone	8.66	43	1378	0.30	ug/l	# 79
59) 2-Hexanone	9.51	43	3038	0.86	ug/l	96
64) Tetrachloroethene	9.34	164	2594	0.67	ug/l	97
76) 1,2,3-Trichloropropane	11.14	75	94097	26.11	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	94097	74.03	ug/l	# 7
84) 1,2,4-Trimethylbenzene	11.81	105	2869	0.25	ug/l	97
95) Naphthalene	13.83	128	98700	7.25	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.01 min

Lab File: VX003159.D

Acq: 03 Jul 2018 19:53

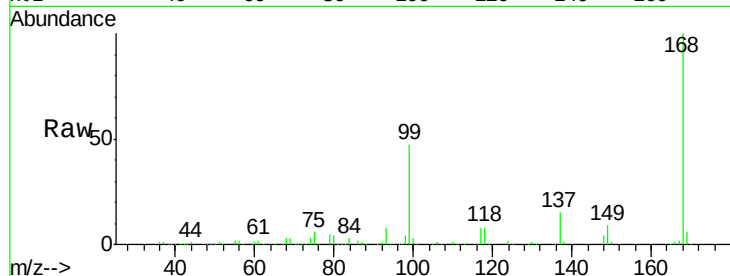
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 271945

Ion Ratio Lower Upper

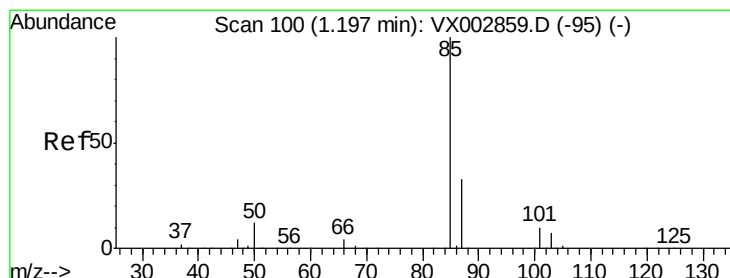
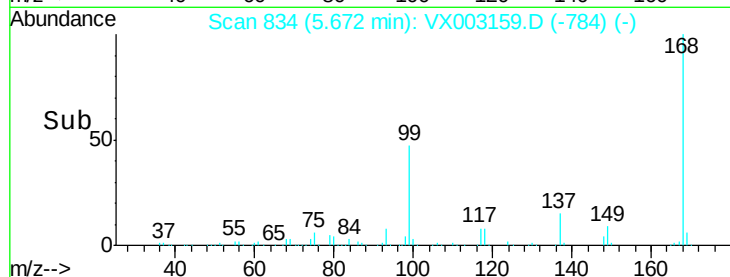
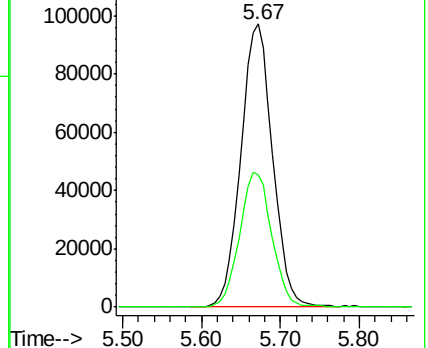
168 100

99 46.6 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.33 min Scan# 122

Delta R.T. 0.14 min

Lab File: VX003159.D

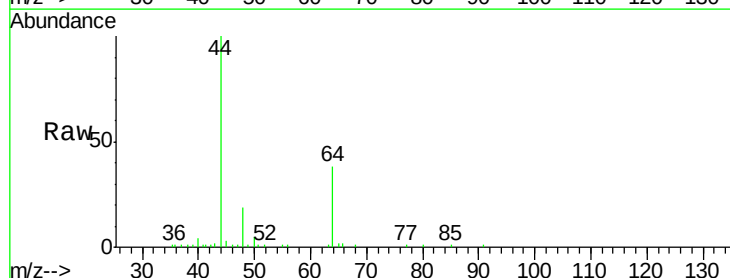
Acq: 03 Jul 2018 19:53

Tgt Ion: 85 Resp: 21

Ion Ratio Lower Upper

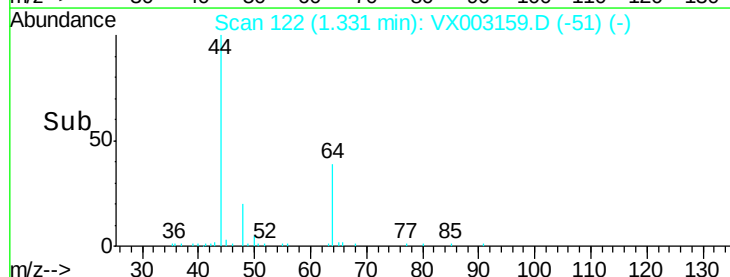
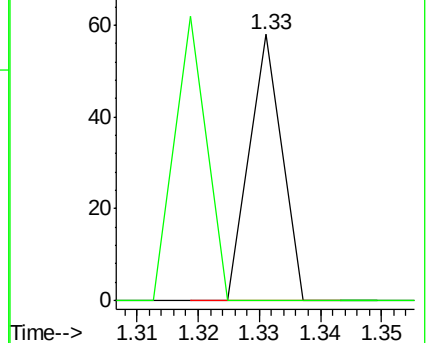
85 100

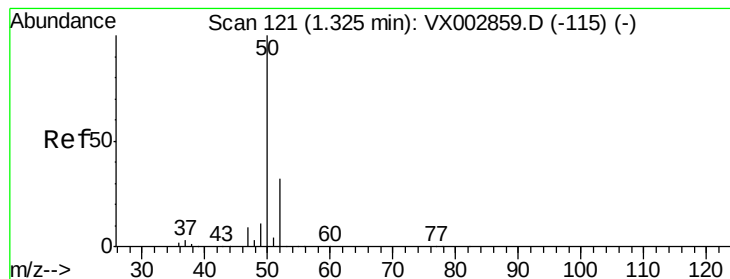
87 0.0 16.0 47.9#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003159.D

Acq: 03 Jul 2018 19:53

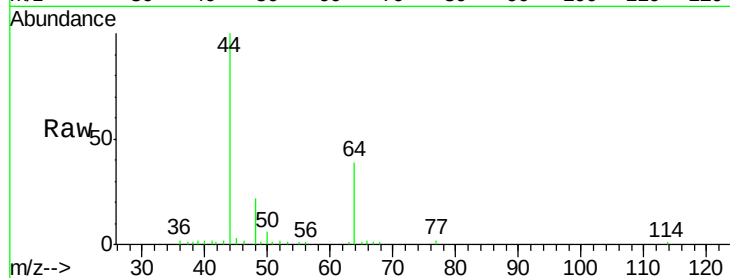
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 50 Resp: 535

Ion Ratio Lower Upper

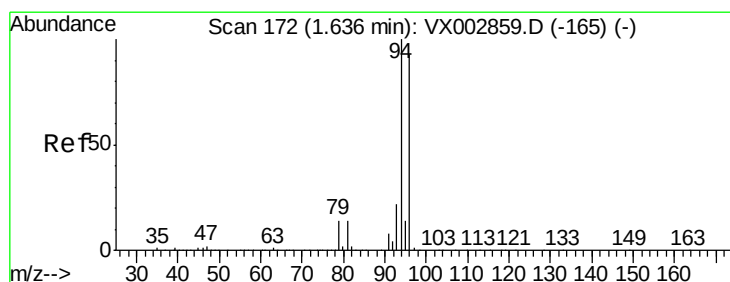
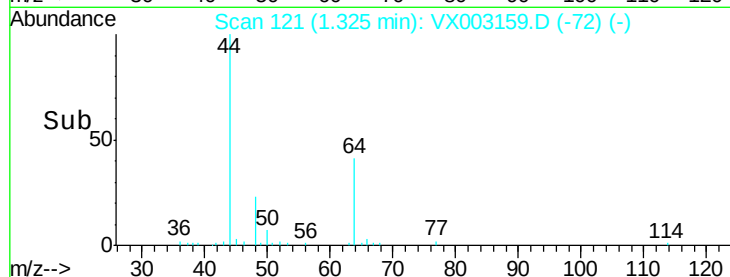
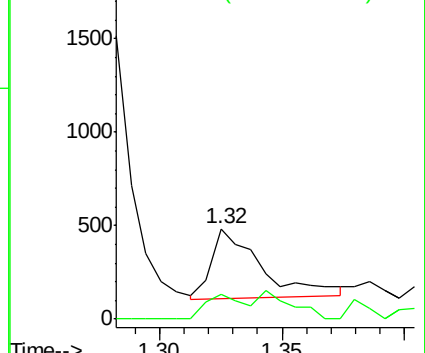
50 100

52 36.9 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 176

Delta R.T. 0.03 min

Lab File: VX003159.D

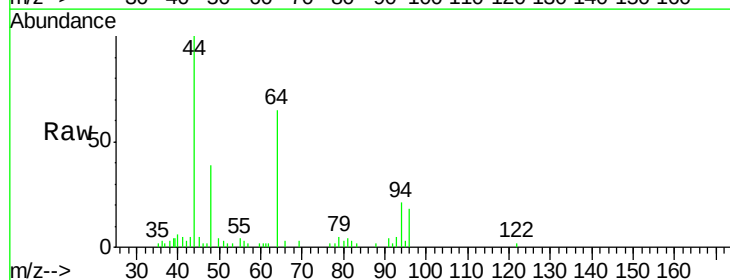
Acq: 03 Jul 2018 19:53

Tgt Ion: 94 Resp: 1759

Ion Ratio Lower Upper

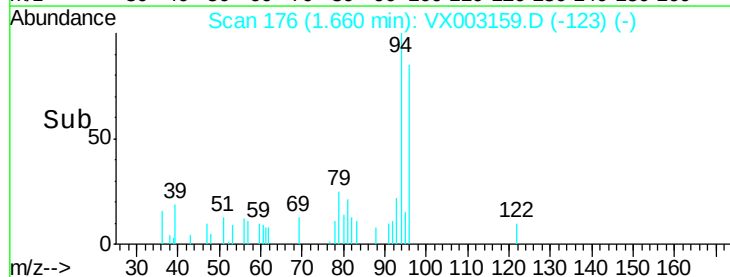
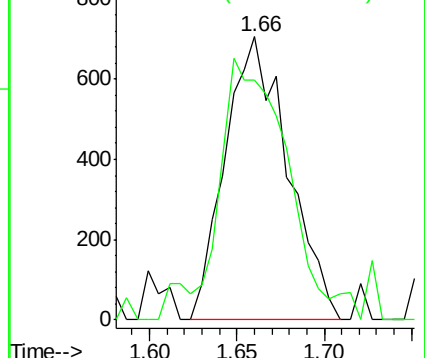
94 100

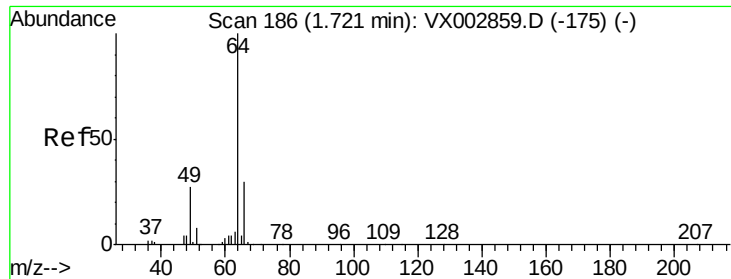
96 75.7 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. -0.07 min

Lab File: VX003159.D

Acq: 03 Jul 2018 19:53

Instrument :

MSVOA_X

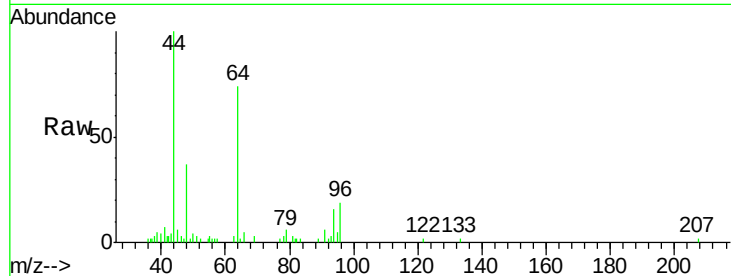
ClientSampled :

Tot Ion: 64 Resp: 455

Ion Ratio Lower Upper

64 100

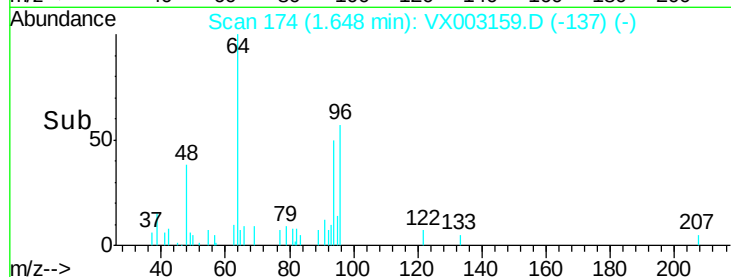
66 5.3 25.5 38.3#



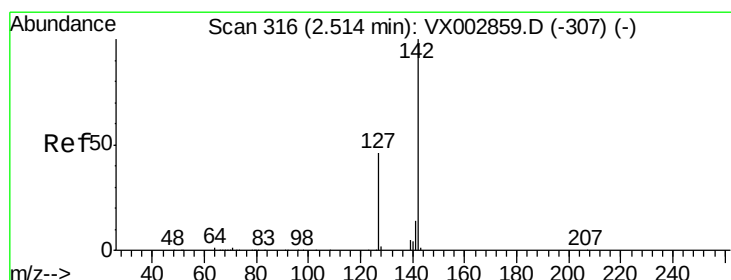
Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

Time--> 1.63 1.64 1.65 1.66 1.67



Time--> 1.63 1.64 1.65 1.66 1.67



#10

Methyl Iodide

Concen: 6.68 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX003159.D

Acq: 03 Jul 2018 19:53

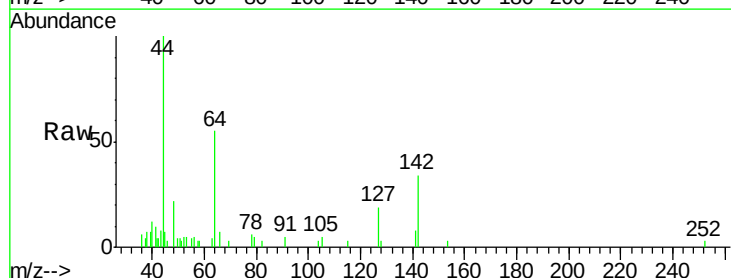
Tgt Ion: 142 Resp: 1584

Ion Ratio Lower Upper

142 100

127 49.3 36.6 55.0

141 18.4 11.3 16.9#

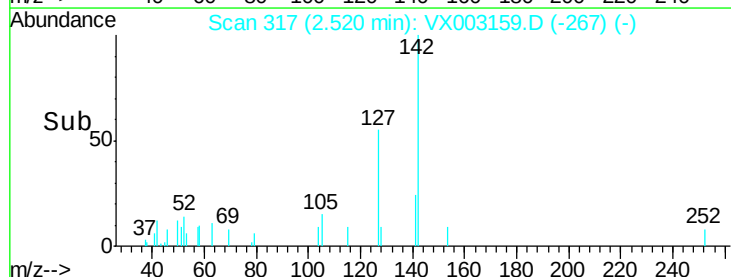


Abundance Ion 141.80 (141.50 to 142.50): V

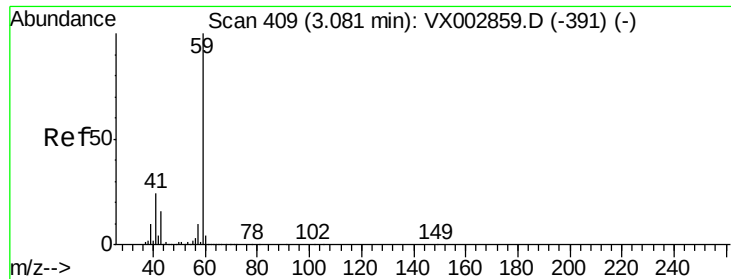
Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

Time--> 2.45 2.50 2.55 2.60



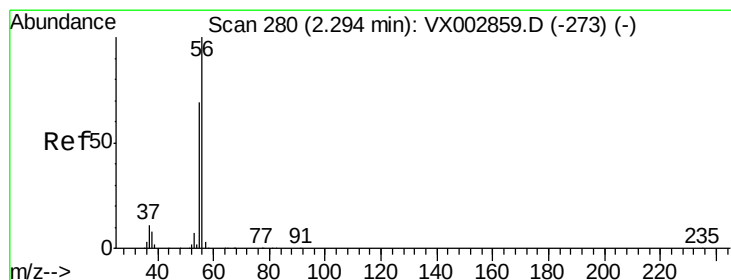
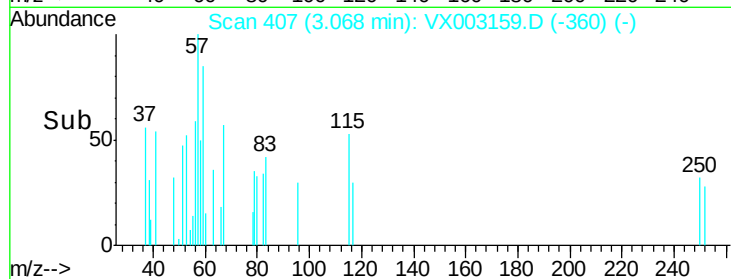
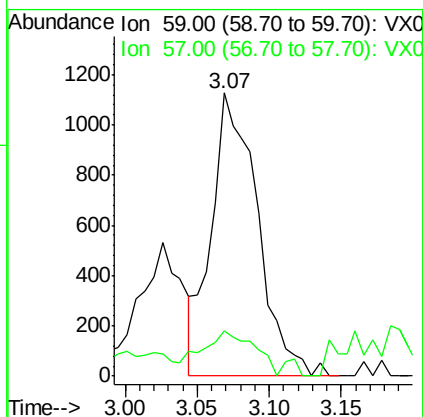
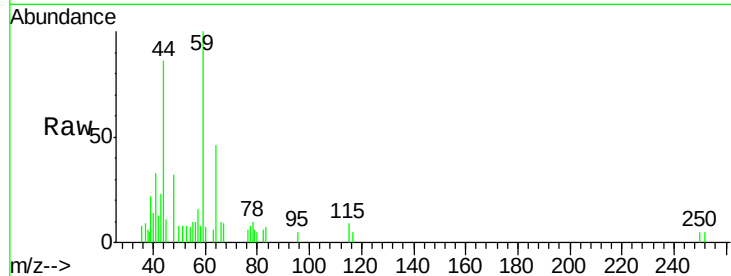
Time--> 2.45 2.50 2.55 2.60



#11
Tert butyl alcohol
Concen: 3.35 ug/l
RT: 3.07 min Scan# 407
Delta R.T. -0.01 min
Lab File: VX003159.D
Acq: 03 Jul 2018 19:53

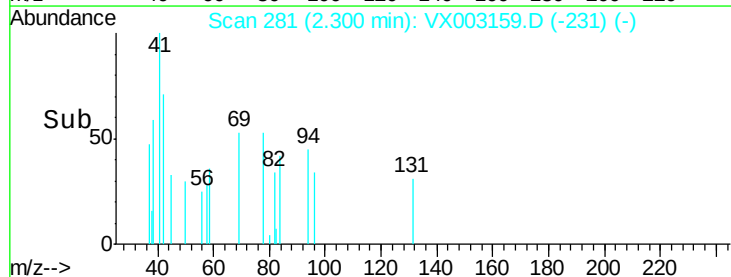
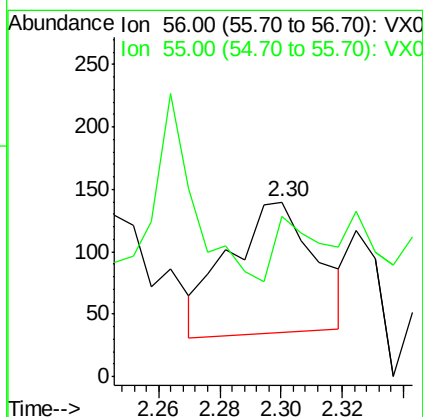
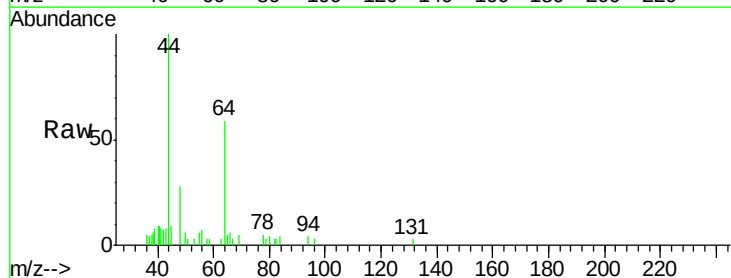
Instrument :
MSVOA_X
ClientSampled :

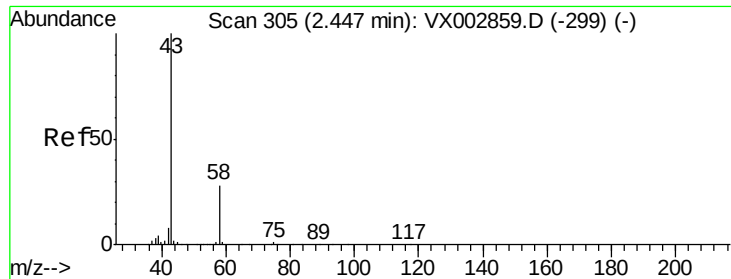
Tot Ion: 59 Resp: 2508
Ion Ratio Lower Upper
59 100
57 18.1 8.2 12.2#



#13
Acrolein
Concen: 4.72 ug/l
RT: 2.30 min Scan# 281
Delta R.T. 0.01 min
Lab File: VX003159.D
Acq: 03 Jul 2018 19:53

Tgt Ion: 56 Resp: 207
Ion Ratio Lower Upper
56 100
55 26.6 57.0 85.4#

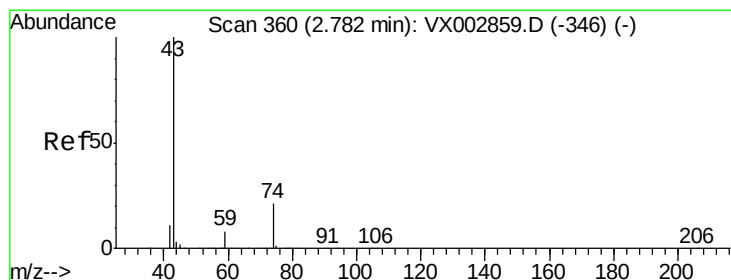
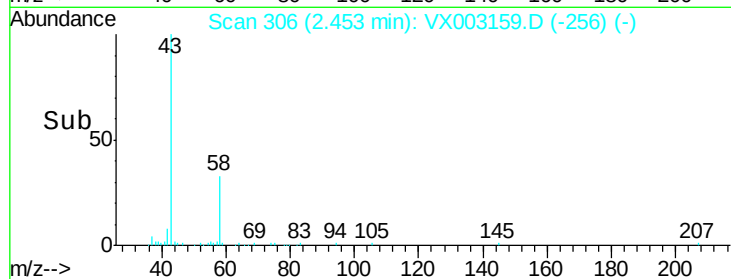
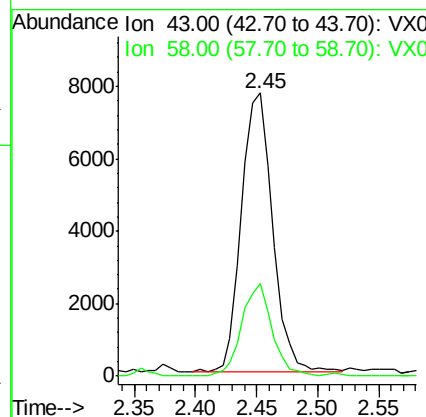
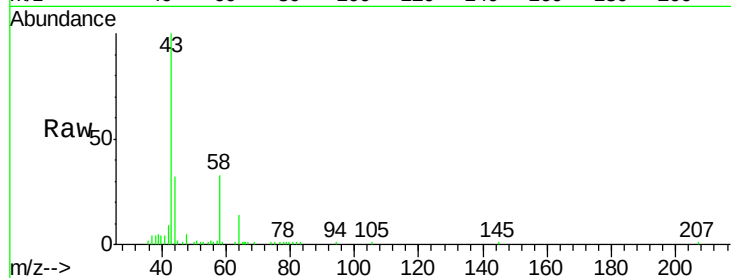




#16
Acetone
Concen: 8.75 ug/l
RT: 2.45 min Scan# 306
Delta R.T. 0.01 min
Lab File: VX003159.D
Acq: 03 Jul 2018 19:53

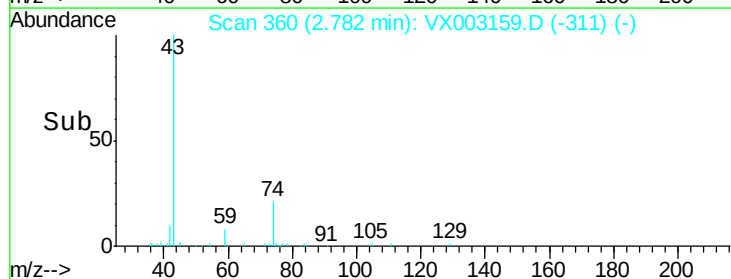
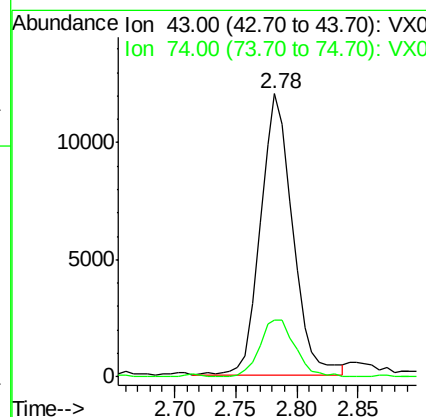
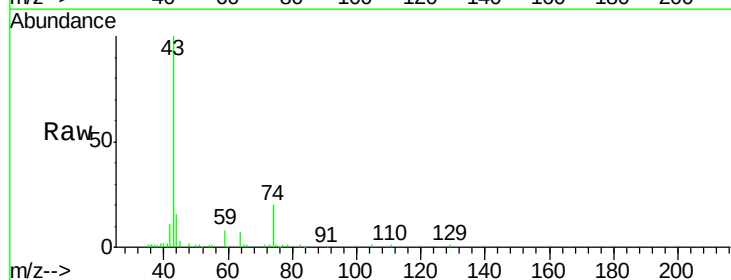
Instrument :
MSVOA_X
ClientSampleId :

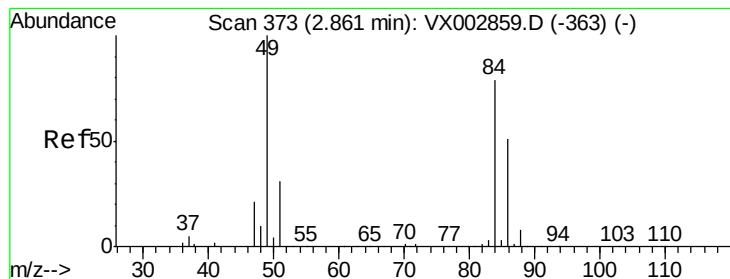
Tot Ion: 43 Resp: 13628
Ion Ratio Lower Upper
43 100
58 33.1 22.1 33.1#



#18
Methyl Acetate
Concen: 5.09 ug/l
RT: 2.78 min Scan# 360
Delta R.T. 0.00 min
Lab File: VX003159.D
Acq: 03 Jul 2018 19:53

Tgt Ion: 43 Resp: 22142
Ion Ratio Lower Upper
43 100
74 22.2 16.7 25.1





#20

Methylene Chloride

Concen: 7.69 ug/l

RT: 2.86 min Scan# 373

Delta R.T. 0.00 min

Lab File: VX003159.D

Acq: 03 Jul 2018 19:53

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 84 Resp: 23291

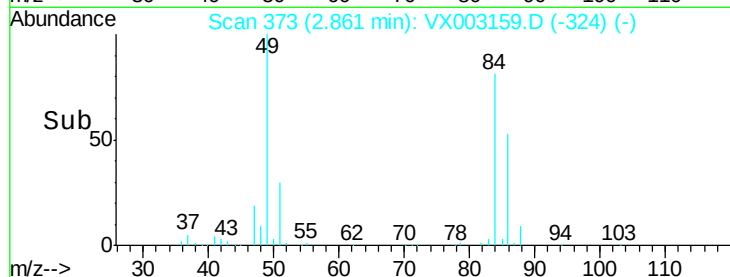
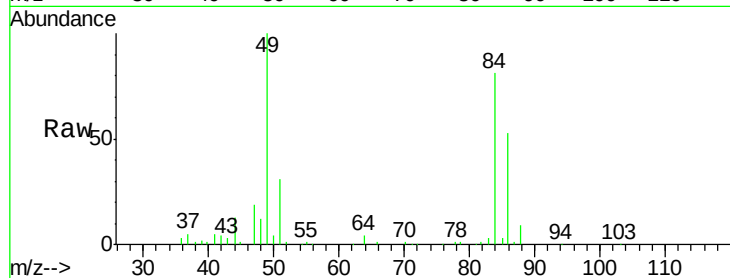
Ion	Ratio	Lower	Upper
84	100		
49	123.4	107.8	161.6
51	37.6	32.8	49.2
86	65.4	52.5	78.7

84 100

49 123.4 107.8 161.6

51 37.6 32.8 49.2

86 65.4 52.5 78.7

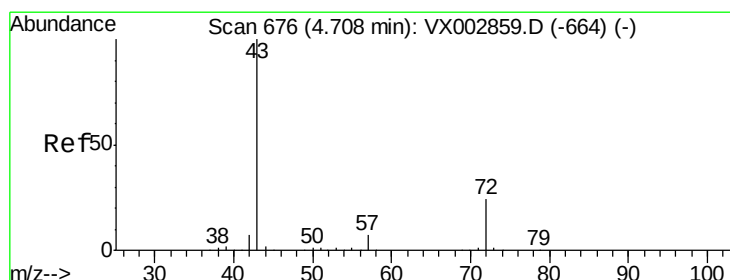
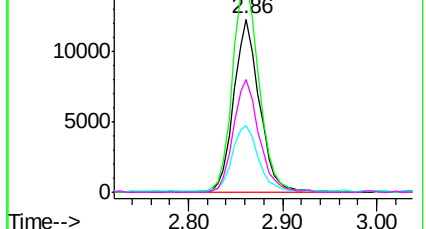


Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#25

2-Butanone

Concen: 4.50 ug/l

RT: 4.71 min Scan# 677

Delta R.T. 0.01 min

Lab File: VX003159.D

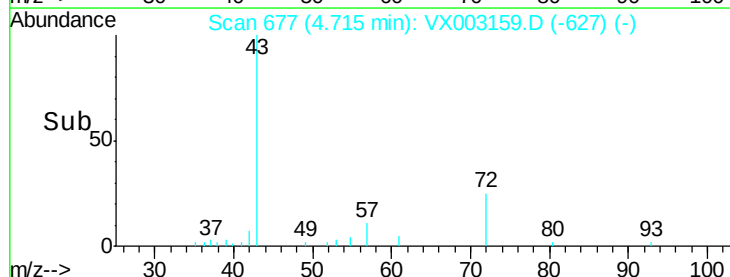
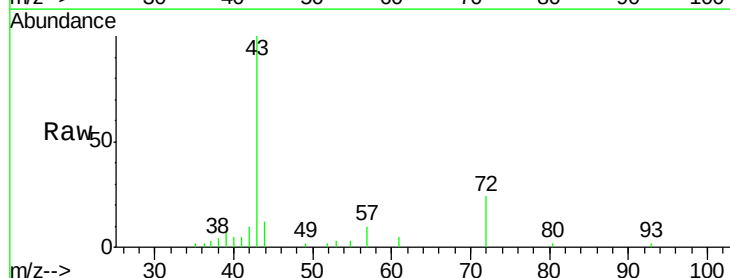
Acq: 03 Jul 2018 19:53

Tgt Ion: 43 Resp: 10387

Ion	Ratio	Lower	Upper
43	100		
72	23.9	18.5	27.7

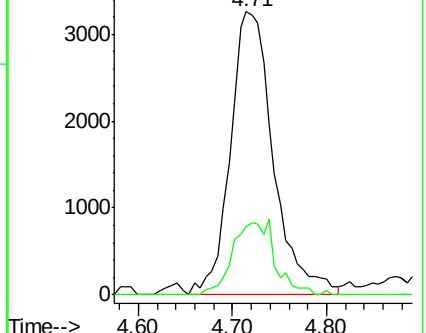
43 100

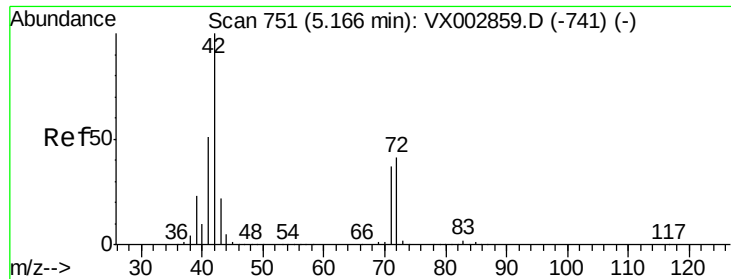
72 23.9 18.5 27.7



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

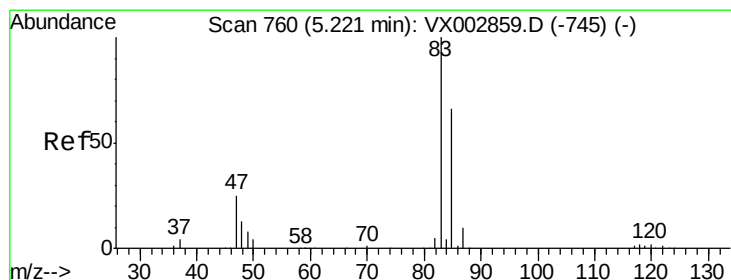
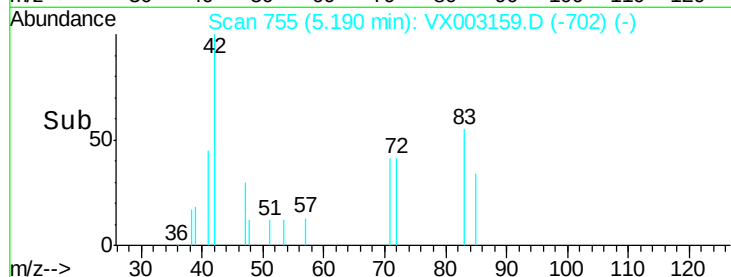
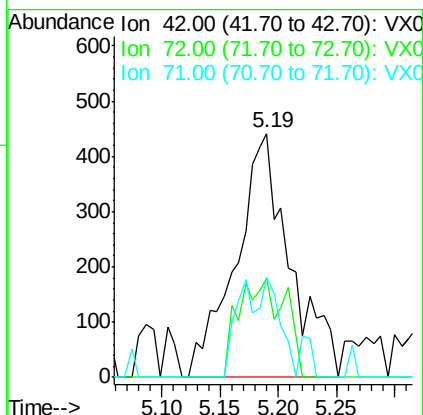
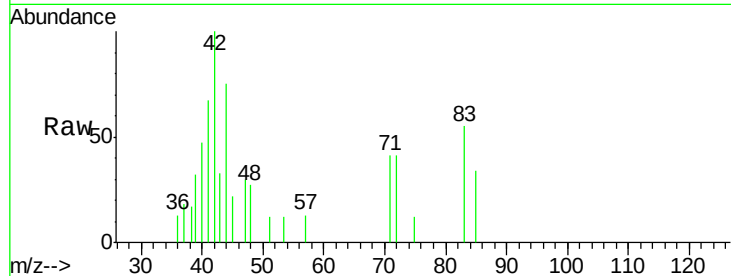




#29
Tetrahydrofuran
Concen: 0.97 ug/l
RT: 5.19 min Scan# 755
Delta R.T. 0.02 min
Lab File: VX003159.D
Acq: 03 Jul 2018 19:53

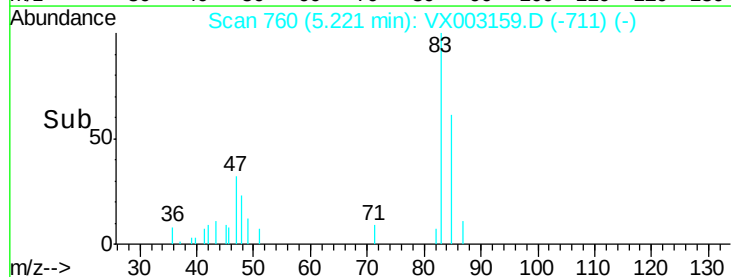
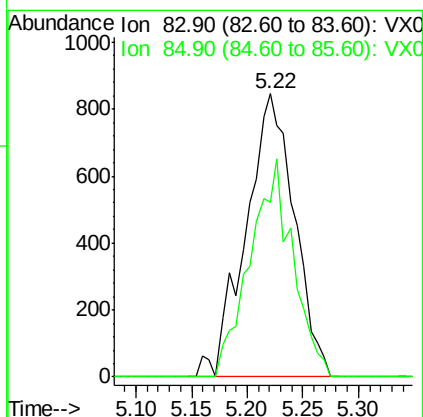
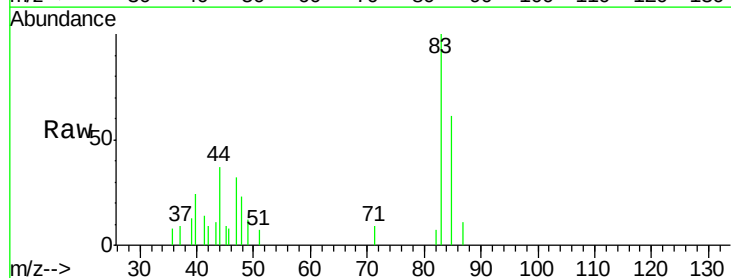
Instrument :
MSVOA_X
ClientSampled :

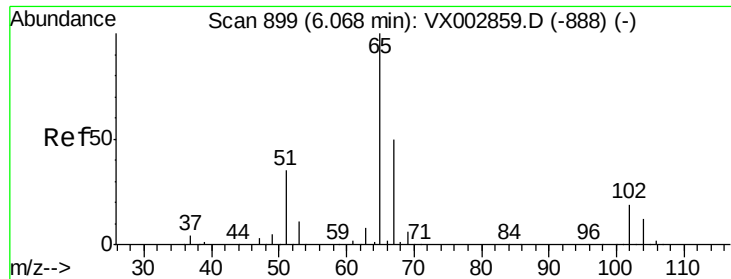
Tot Ion: 42 Resp: 1433
Ion Ratio Lower Upper
42 100
72 34.5 32.0 48.0
71 13.6 30.1 45.1#



#30
Chloroform
Concen: 0.46 ug/l
RT: 5.22 min Scan# 760
Delta R.T. 0.00 min
Lab File: VX003159.D
Acq: 03 Jul 2018 19:53

Tgt Ion: 83 Resp: 2579
Ion Ratio Lower Upper
83 100
85 61.5 50.4 75.6

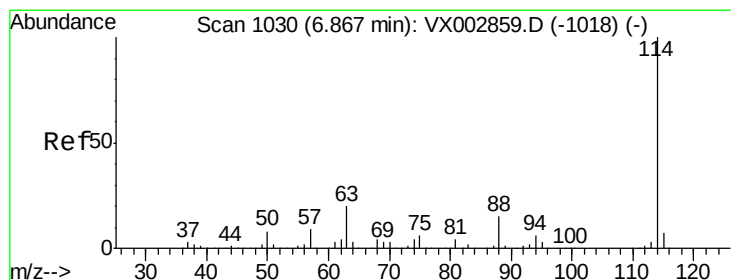
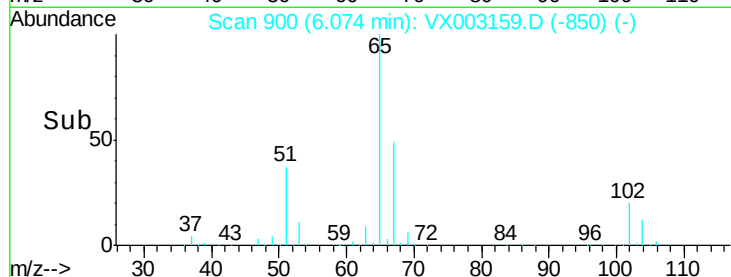
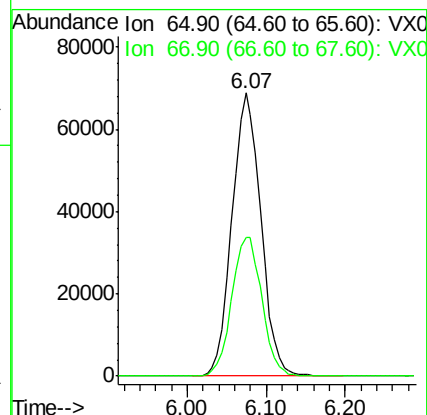
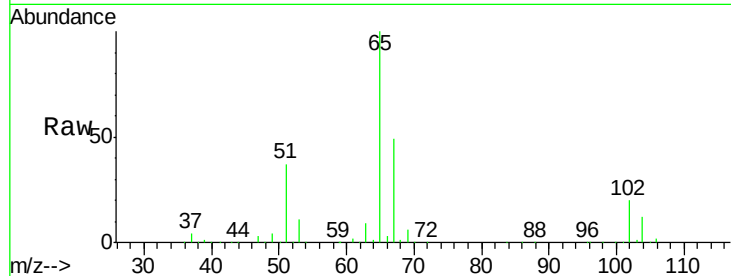




#33
 1,2-Dichloroethane-d4
 Concen: 46.77 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.01 min
 Lab File: VX003159.D
 Acq: 03 Jul 2018 19:53

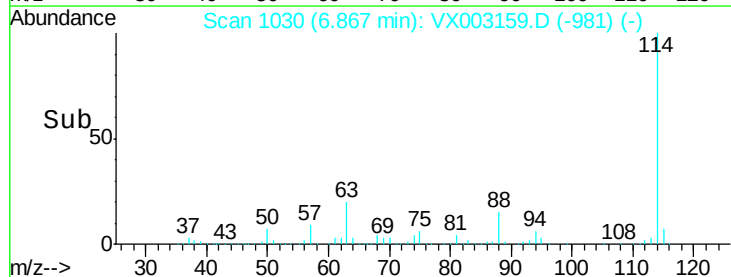
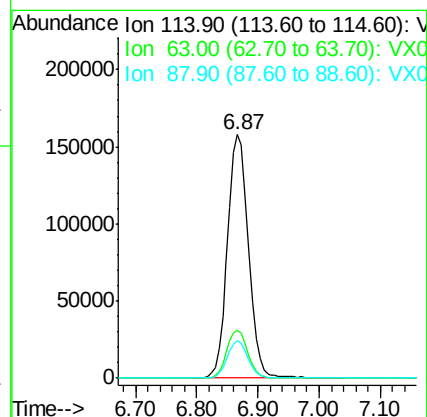
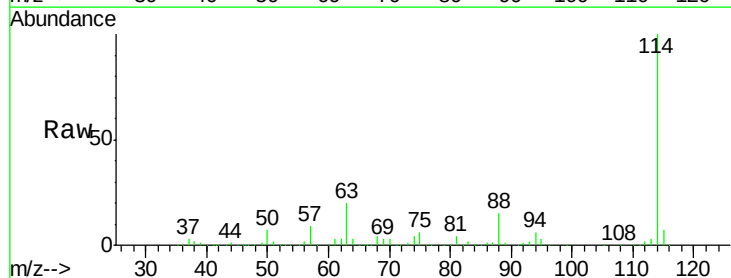
Instrument :
 MSVOA_X
 ClientSampleId :

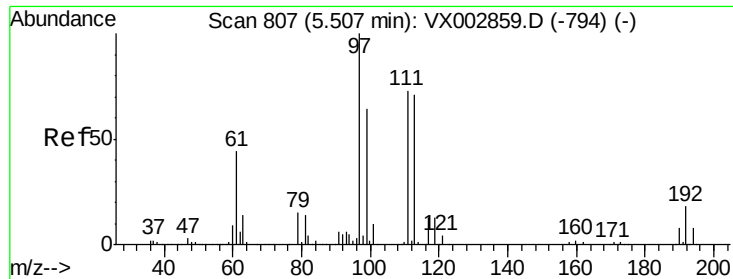
Tot Ion: 65 Resp: 175785
 Ion Ratio Lower Upper
 65 100
 67 51.0 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX003159.D
 Acq: 03 Jul 2018 19:53

Tgt Ion: 114 Resp: 373720
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 41.4
 88 15.3 0.0 30.0

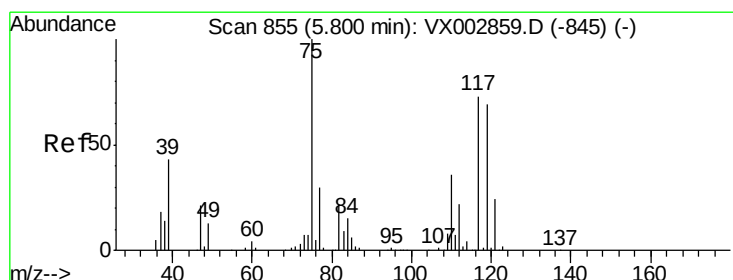
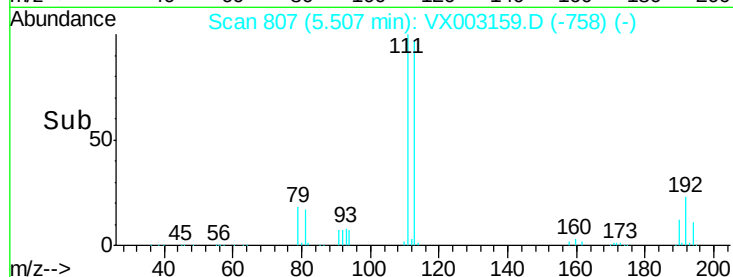
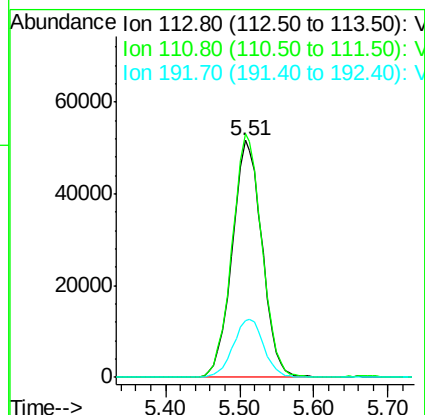
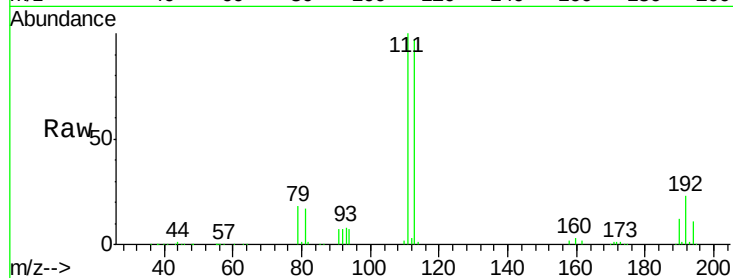




#35
 Dibromofluoromethane
 Concen: 48.93 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. 0.00 min
 Lab File: VX003159.D
 Acq: 03 Jul 2018 19:53

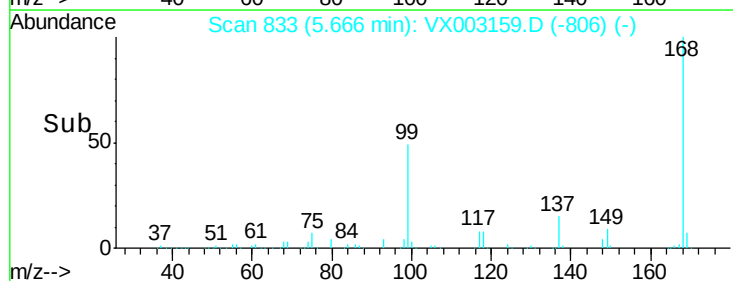
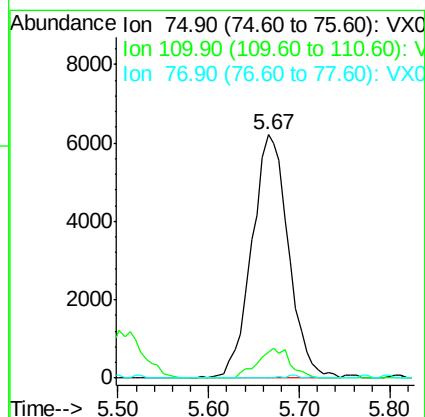
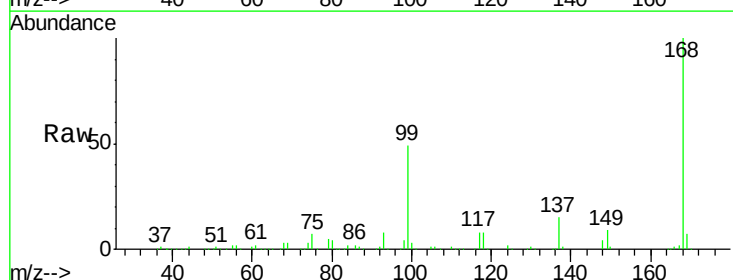
Instrument :
 MSVOA_X
 ClientSampleId :

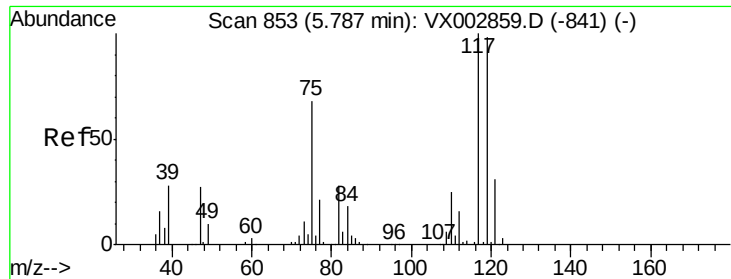
Tot Ion:113 Resp: 144823
 Ion Ratio Lower Upper
 113 100
 111 102.4 81.4 122.0
 192 24.9 19.1 28.7



#36
 1,1-Dichloropropene
 Concen: 4.24 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX003159.D
 Acq: 03 Jul 2018 19:53

Tgt Ion: 75 Resp: 17357
 Ion Ratio Lower Upper
 75 100
 110 10.8 18.1 54.4#
 77 0.0 24.3 36.5#

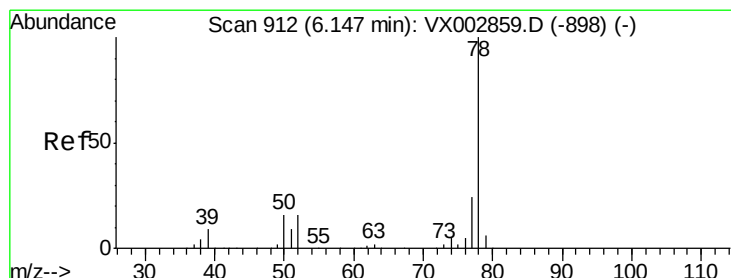
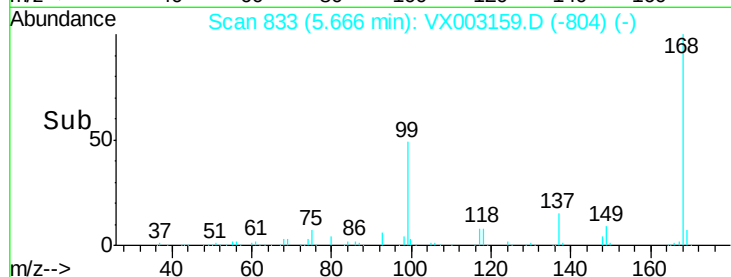
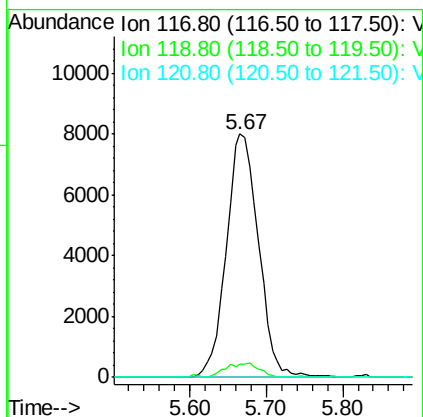
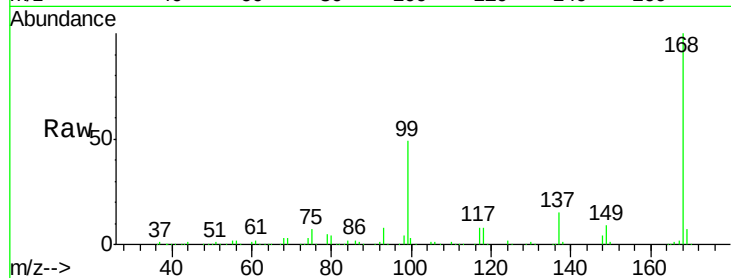




#38
Carbon Tetrachloride
Concen: 5.17 ug/l
RT: 5.67 min Scan# 833
Delta R.T. -0.12 min
Lab File: VX003159.D
Acq: 03 Jul 2018 19:53

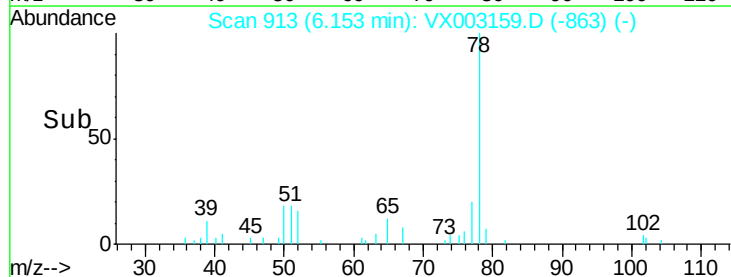
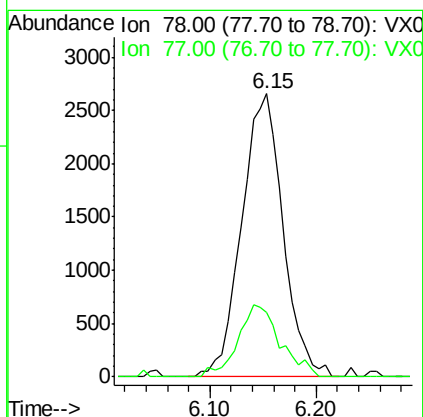
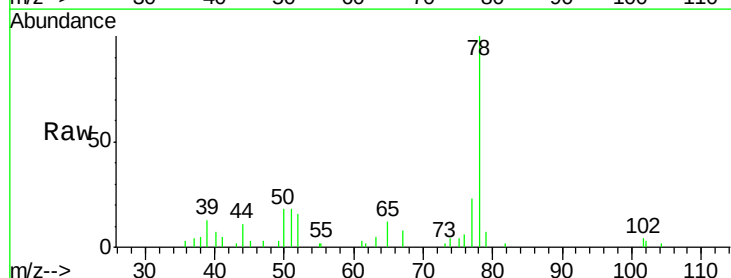
Instrument :
MSVOA_X
ClientSampleId :

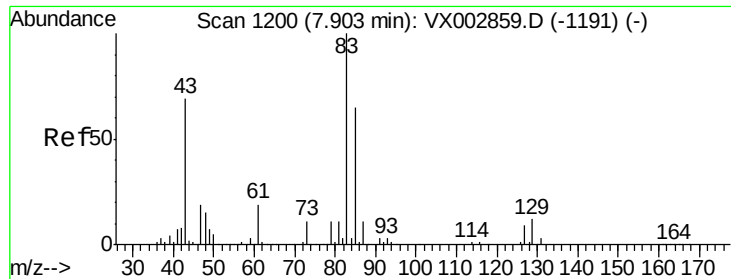
Tot Ion:117 Resp: 23268
Ion Ratio Lower Upper
117 100
119 5.6 77.4 116.0#
121 0.0 24.4 36.6#



#40
Benzene
Concen: 0.61 ug/l
RT: 6.15 min Scan# 913
Delta R.T. 0.01 min
Lab File: VX003159.D
Acq: 03 Jul 2018 19:53

Tgt Ion: 78 Resp: 7221
Ion Ratio Lower Upper
78 100
77 22.6 19.1 28.7





#47

Bromodichloromethane

Concen: 0.24 ug/l

RT: 7.90 min Scan# 1199

Delta R.T. -0.01 min

Lab File: VX003159.D

Acq: 03 Jul 2018 19:53

Instrument :

MSVOA_X

ClientSampleId :

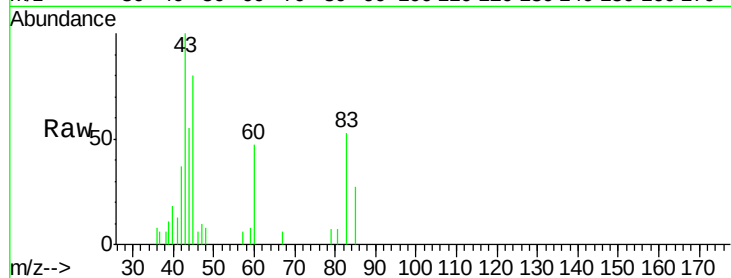
Tot Ion: 83 Resp: 990

Ion Ratio Lower Upper

83 100

85 51.2 50.3 75.5

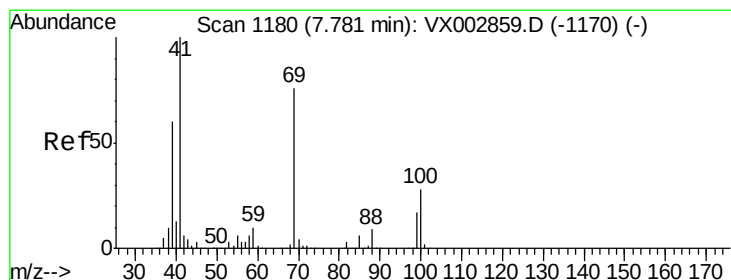
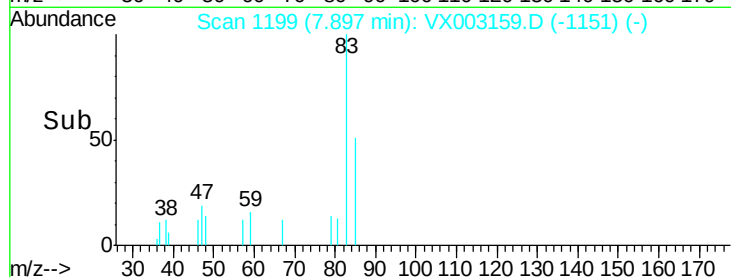
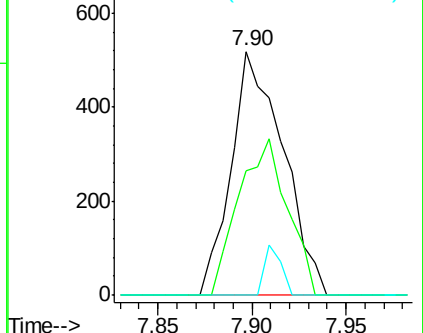
127 0.0 7.0 10.4#



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



#48

Methyl methacrylate

Concen: 0.83 ug/l

RT: 7.72 min Scan# 1170

Delta R.T. -0.06 min

Lab File: VX003159.D

Acq: 03 Jul 2018 19:53

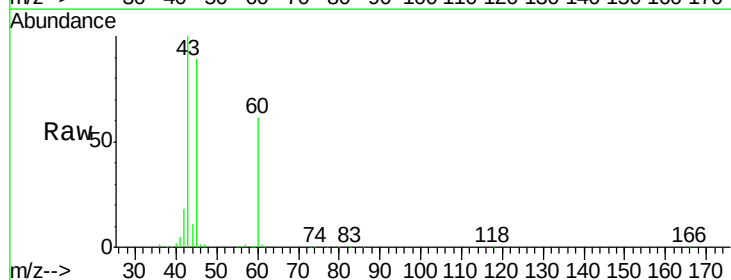
Tgt Ion: 41 Resp: 3160

Ion Ratio Lower Upper

41 100

69 0.7 59.1 88.7#

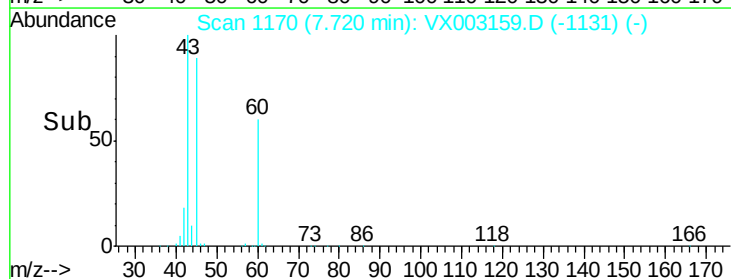
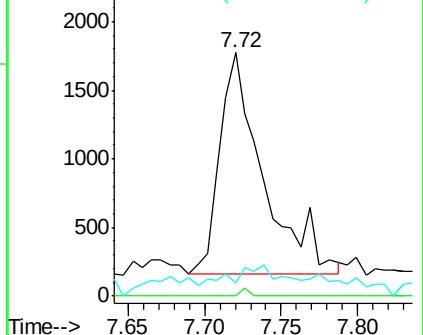
39 8.9 48.9 73.3#

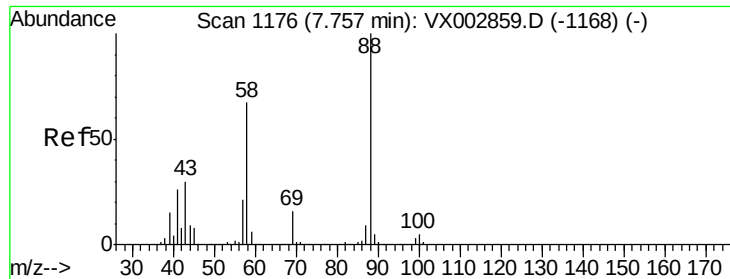


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0





#49

1,4-Dioxane

Concen: 0.32 ug/l

RT: 7.73 min Scan# 1171

Delta R.T. -0.03 min

Lab File: VX003159.D

Acq: 03 Jul 2018 19:53

Instrument :
MSVOA_X
ClientSampleId :

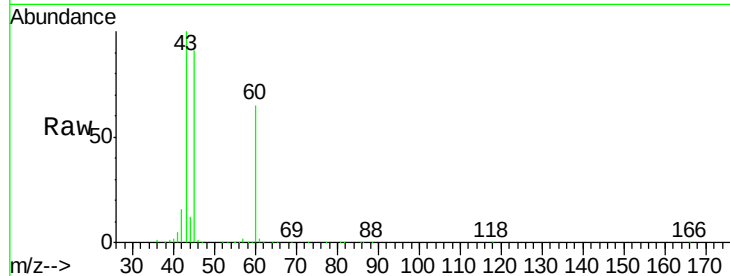
Tot Ion: 88 Resp: 24

Ion Ratio Lower Upper

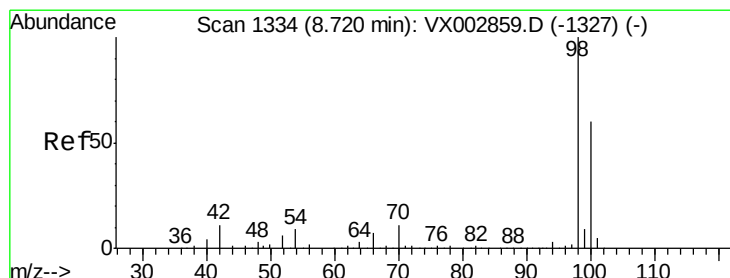
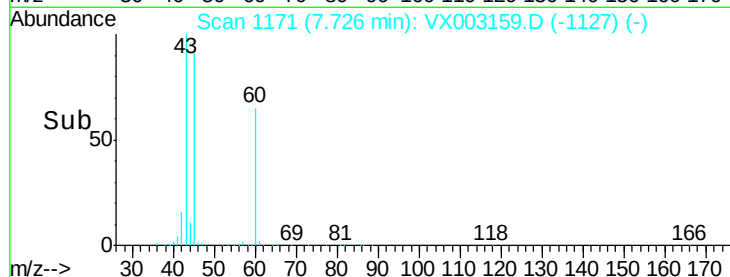
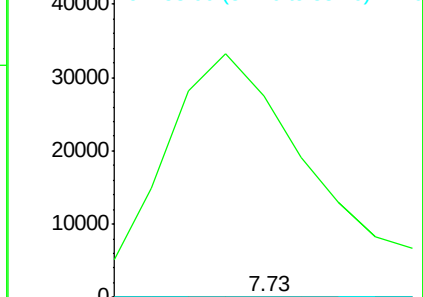
88 100

43 265575.0 29.8 44.6#

58 420.8 57.1 85.7#



Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0



#50

Toluene-d8

Concen: 49.25 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003159.D

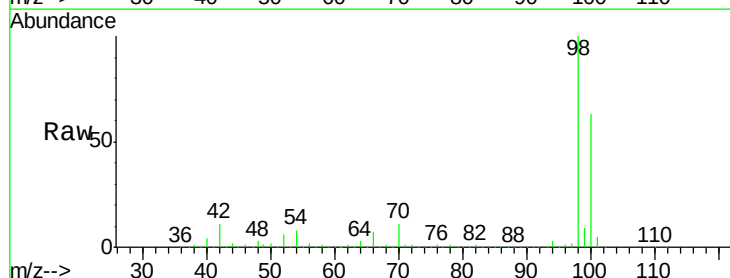
Acq: 03 Jul 2018 19:53

Tgt Ion: 98 Resp: 532226

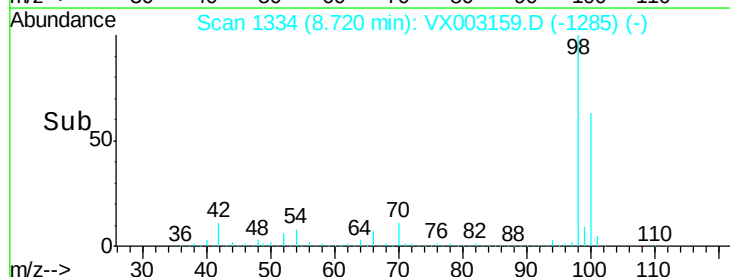
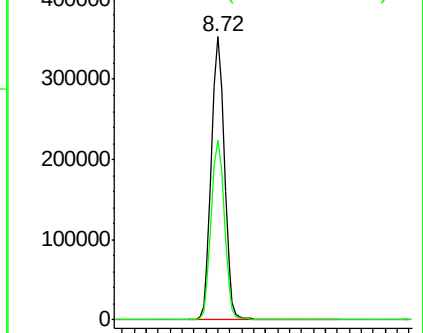
Ion Ratio Lower Upper

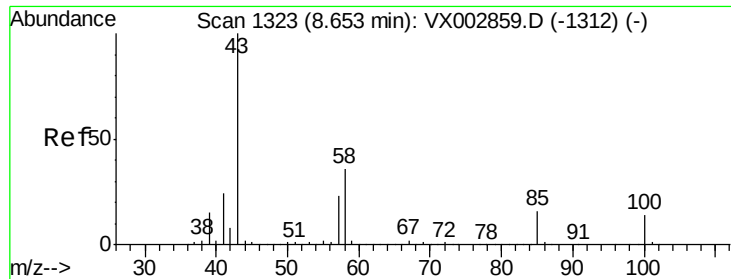
98 100

100 64.0 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): VX0





#51

4-Methyl-2-Pentanone

Concen: 0.30 ug/l

RT: 8.66 min Scan# 1324

Delta R.T. 0.01 min

Lab File: VX003159.D

Acq: 03 Jul 2018 19:53

Instrument :

MSVOA_X

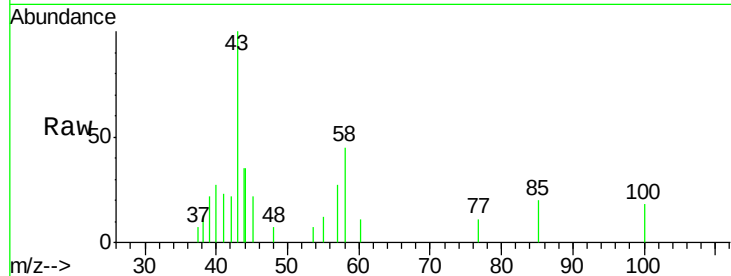
ClientSampled :

Tot Ion: 43 Resp: 1378

Ion Ratio Lower Upper

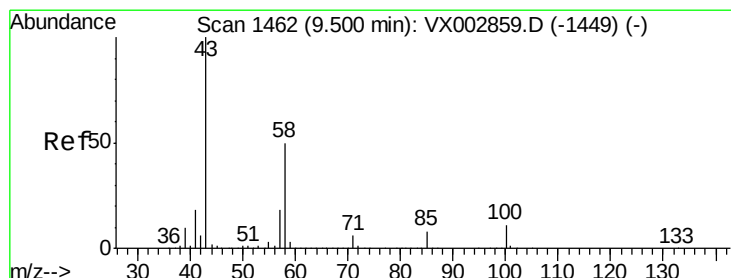
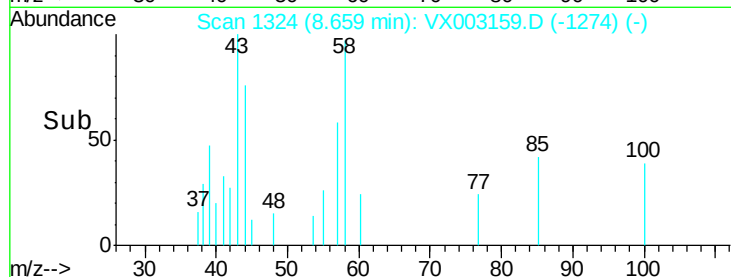
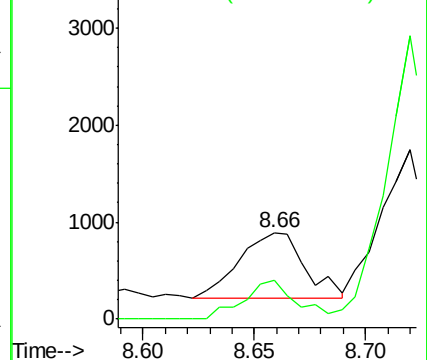
43 100

58 47.9 28.6 42.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#59

2-Hexanone

Concen: 0.86 ug/l

RT: 9.51 min Scan# 1463

Delta R.T. 0.01 min

Lab File: VX003159.D

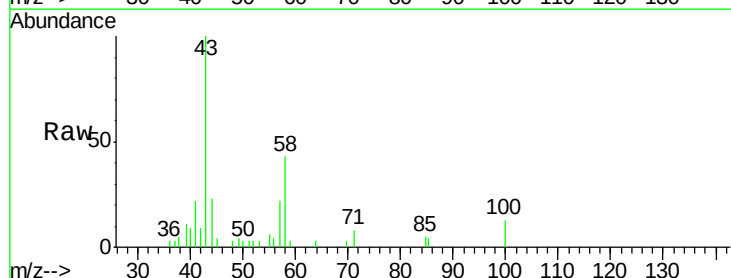
Acq: 03 Jul 2018 19:53

Tgt Ion: 43 Resp: 3038

Ion Ratio Lower Upper

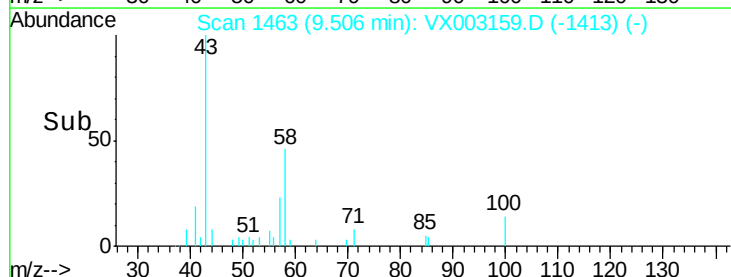
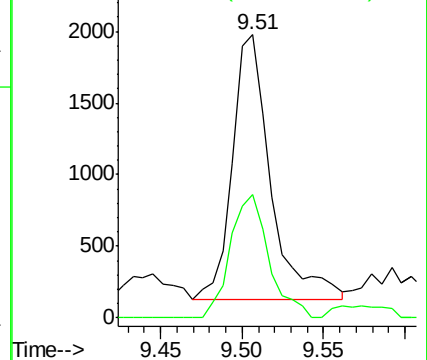
43 100

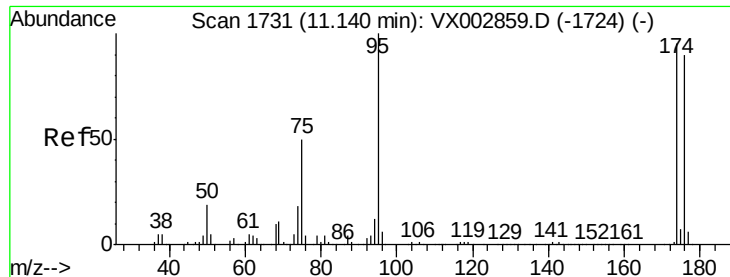
58 46.4 24.6 73.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

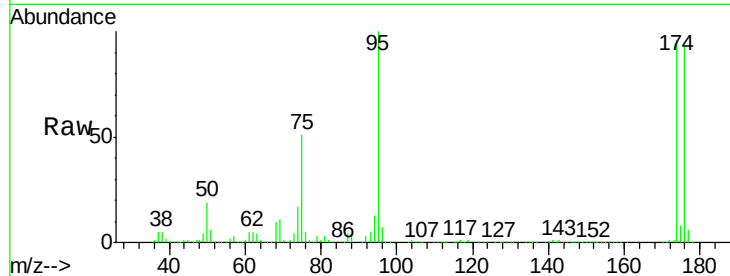




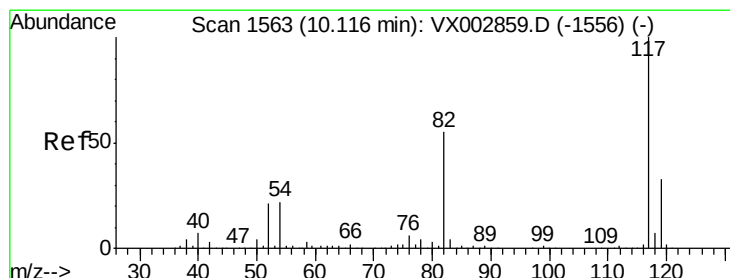
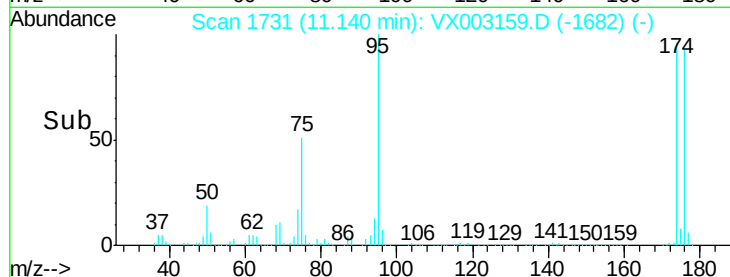
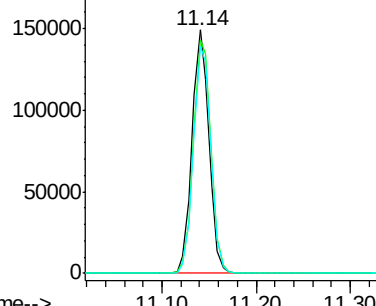
#62
4-Bromofluorobenzene
Concen: 44.50 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX003159.D
Acq: 03 Jul 2018 19:53

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 95 Resp: 185456
Ion Ratio Lower Upper
95 100
174 99.4 0.0 187.4
176 95.6 0.0 181.0

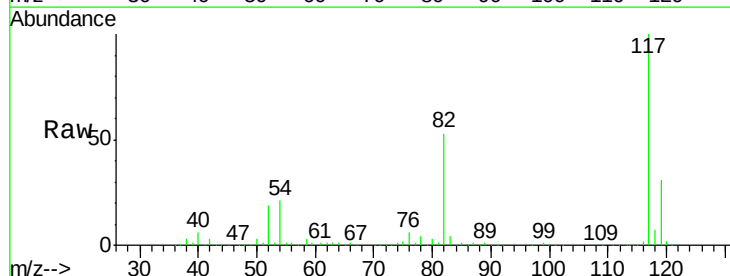


Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

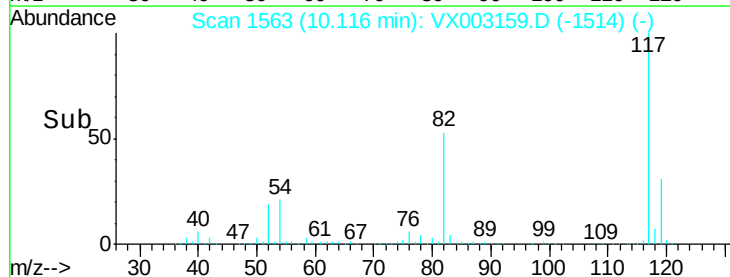
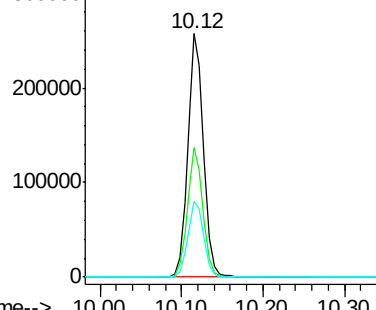


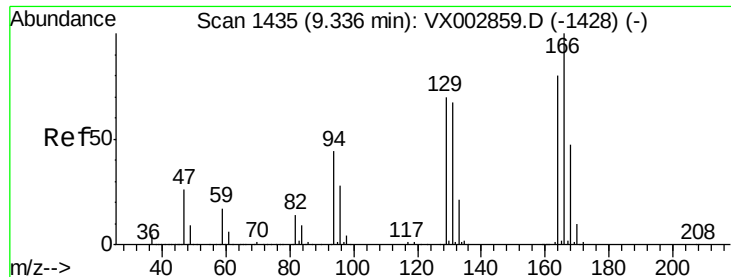
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX003159.D
Acq: 03 Jul 2018 19:53

Tgt Ion: 117 Resp: 349028
Ion Ratio Lower Upper
117 100
82 53.3 45.0 67.4
119 31.1 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

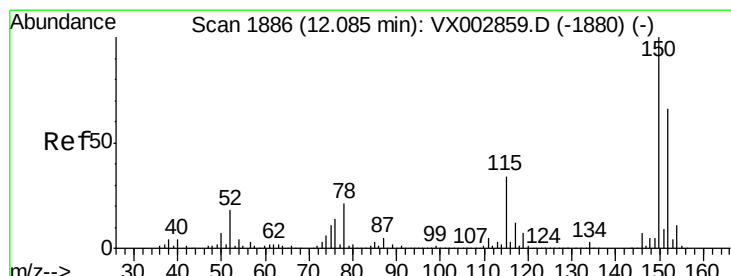
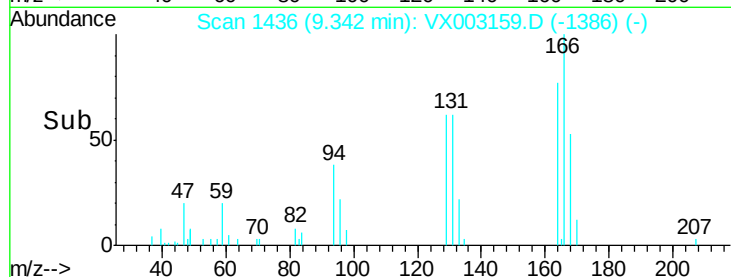
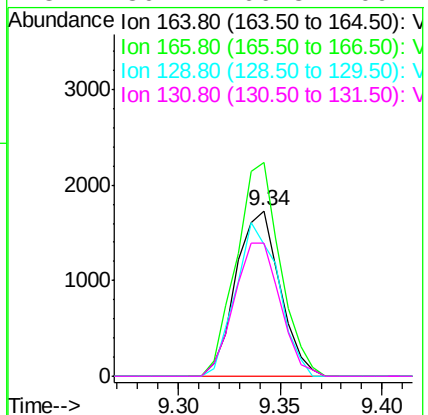
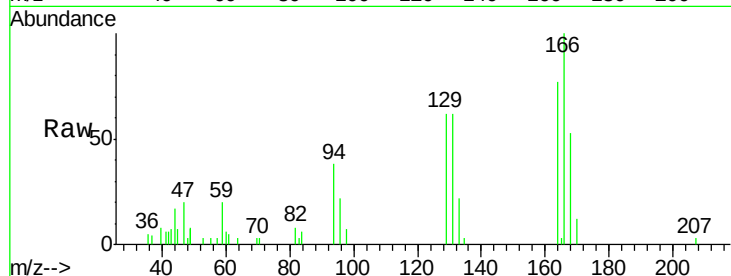




#64
Tetrachloroethene
Concen: 0.67 ug/l
RT: 9.34 min Scan# 1436
Delta R.T. 0.01 min
Lab File: VX003159.D
Acq: 03 Jul 2018 19:53

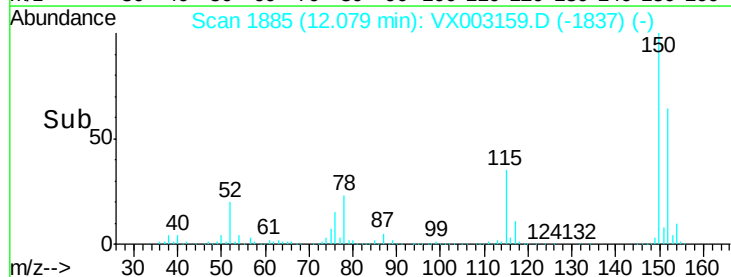
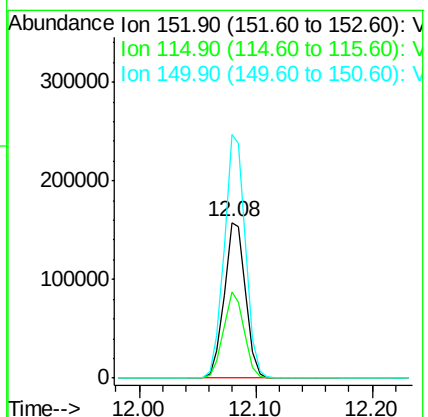
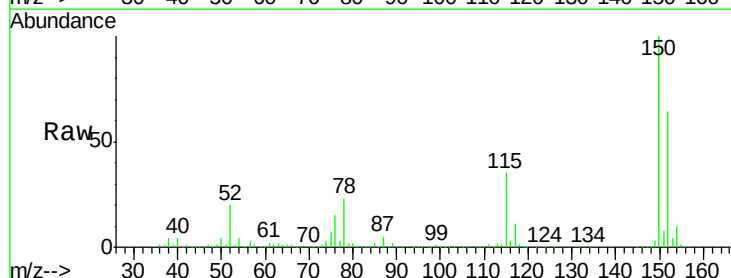
Instrument :
MSVOA_X
ClientSampleId :

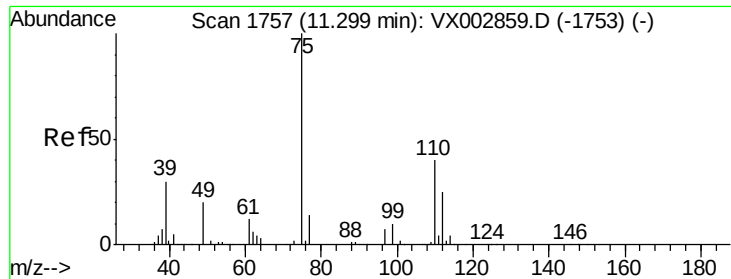
Tot Ion:164 Resp: 2594
Ion Ratio Lower Upper
164 100
166 129.1 102.9 154.3
129 79.5 68.6 102.8
131 80.4 66.8 100.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1885
Delta R.T. -0.01 min
Lab File: VX003159.D
Acq: 03 Jul 2018 19:53

Tgt Ion:152 Resp: 198932
Ion Ratio Lower Upper
152 100
115 53.6 40.1 120.2
150 155.7 0.0 347.2

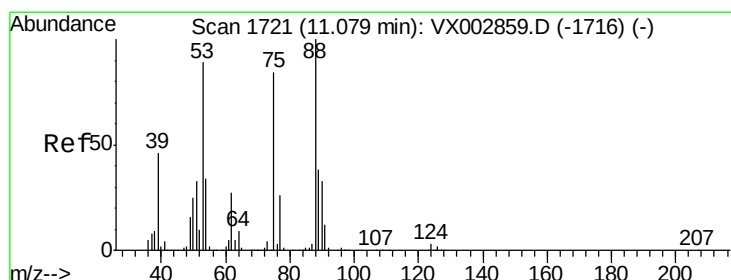
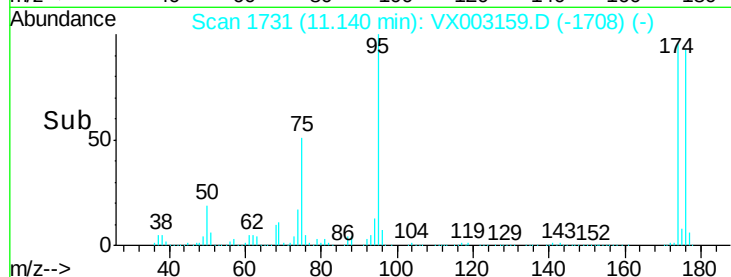
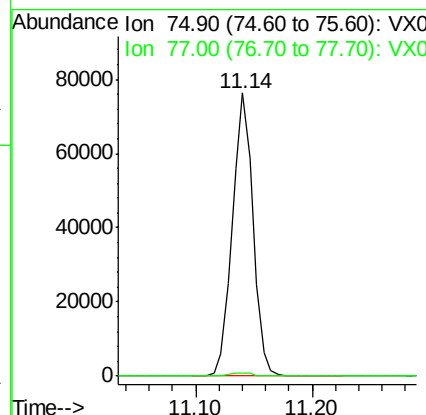
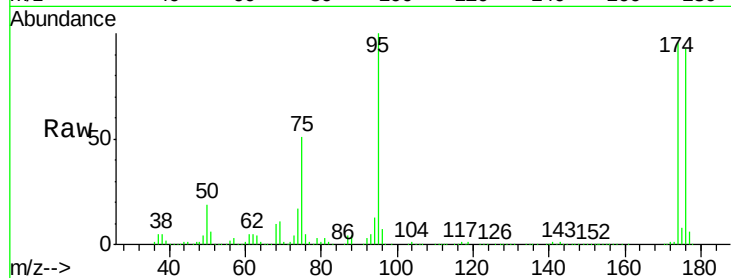




#76
 1,2,3-Trichloropropane
 Concen: 26.11 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX003159.D
 Acq: 03 Jul 2018 19:53

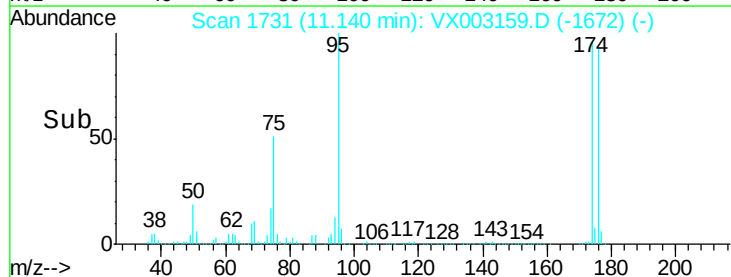
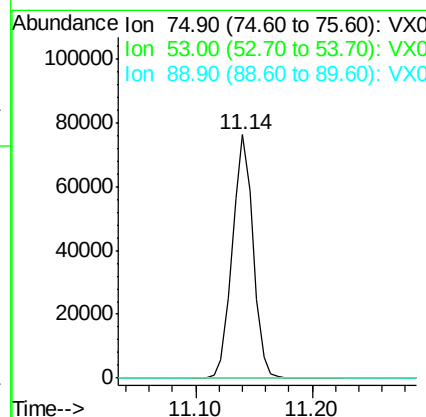
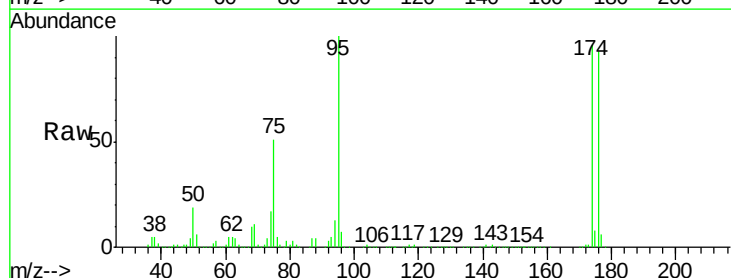
Instrument :
 MSVOA_X
 ClientSampleId :

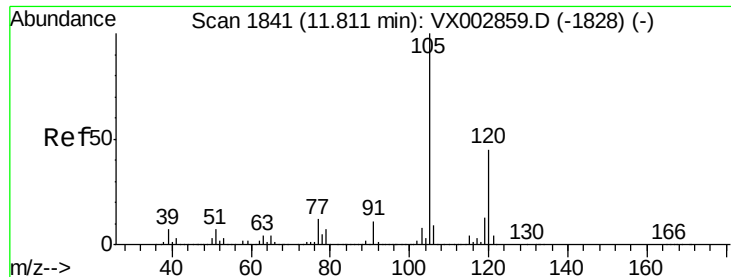
Tot Ion: 75 Resp: 94097
 Ion Ratio Lower Upper
 75 100
 77 1.3 22.8 68.3#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 74.03 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX003159.D
 Acq: 03 Jul 2018 19:53

Tgt Ion: 75 Resp: 94097
 Ion Ratio Lower Upper
 75 100
 53 0.3 86.8 130.2#
 89 0.0 38.2 57.2#

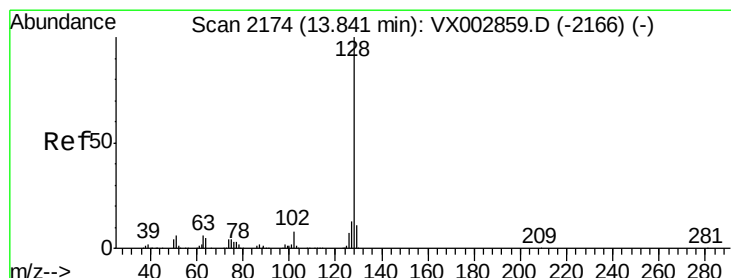
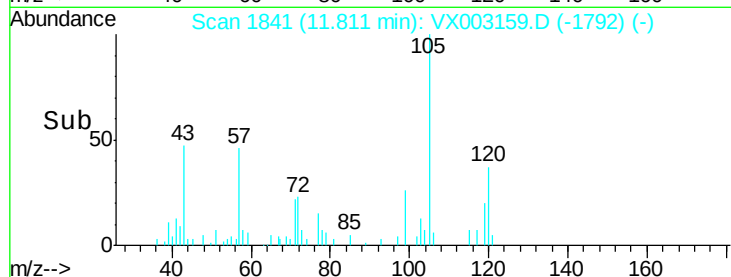
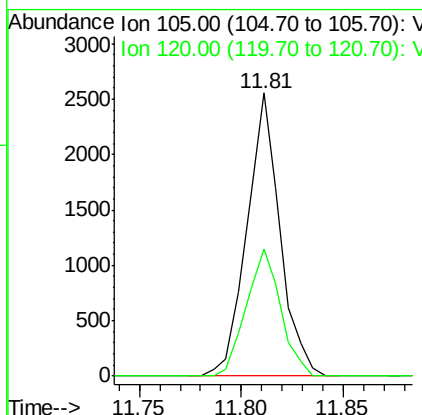
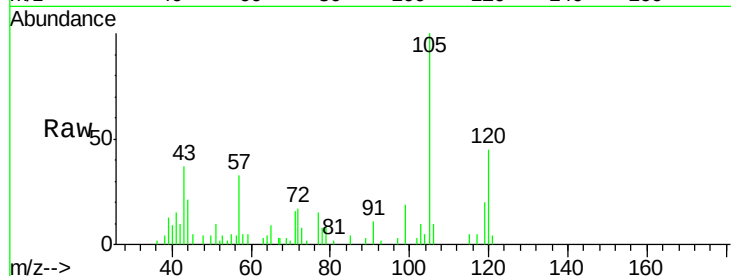




#84
 1,2,4-Trimethylbenzene
 Concen: 0.25 ug/l
 RT: 11.81 min Scan# 1841
 Delta R.T. 0.00 min
 Lab File: VX003159.D
 Acq: 03 Jul 2018 19:53

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:105 Resp: 2869
 Ion Ratio Lower Upper
 105 100
 120 46.7 22.3 66.8



#95
 Naphthalene
 Concen: 7.25 ug/l
 RT: 13.83 min Scan# 2173
 Delta R.T. -0.01 min
 Lab File: VX003159.D
 Acq: 03 Jul 2018 19:53

Tgt Ion:128 Resp: 98700
 Ion Ratio Lower Upper
 128 100
 127 12.9 10.4 15.6
 129 11.1 8.6 13.0

