

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX081018\
 Data File : VX003986.D
 Acq On : 10 Aug 2018 19:23
 Operator : JC/MD
 Sample : J4397-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-4

Quant Time: Aug 11 01:47:14 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X080618W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 07 07:45:48 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	279224	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	442182	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	418190	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	225137	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	198963	53.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.50%	
35) Dibromofluoromethane	5.51	113	172224	51.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.82%	
50) Toluene-d8	8.72	98	635414	48.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.56%	
62) 4-Bromofluorobenzene	11.14	95	214605	50.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.82%	

Target Compounds

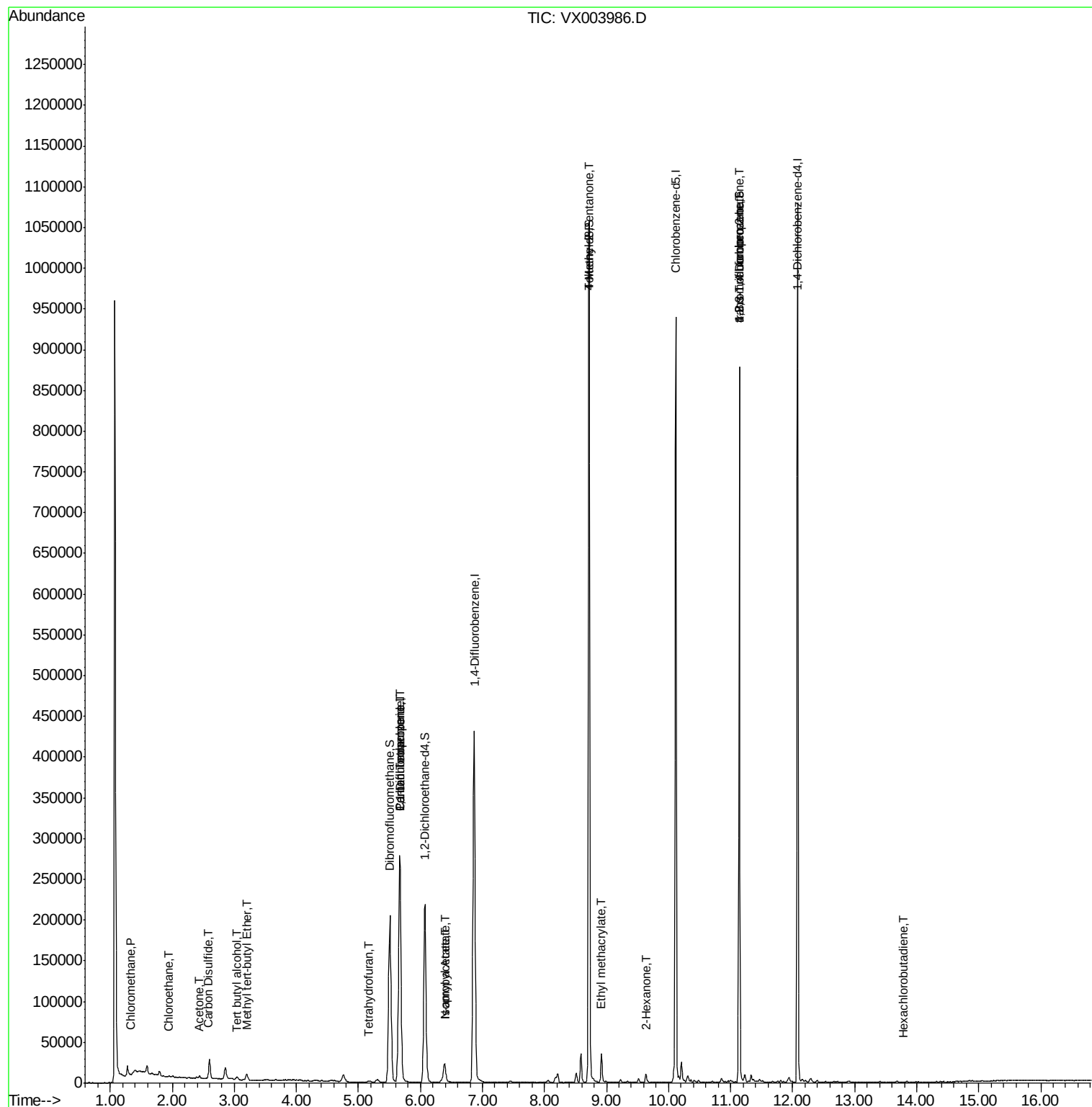
						Qvalue
3) Chloromethane	1.32	50	786	0.20	ug/l	92
5) Bromomethane	1.66	94	743	Below	Cal	82
6) Chloroethane	1.94	64	507	0.21	ug/l #	42
11) Tert butyl alcohol	3.04	59	4546	5.11	ug/l	99
13) Acrolein	2.29	56	93	Below	Cal #	1
16) Acetone	2.44	43	3267	1.48	ug/l	91
17) Carbon Disulfide	2.57	76	902	0.54	ug/l #	65
19) Methyl tert-butyl Ether	3.20	73	9342	0.88	ug/l	96
20) Methylene Chloride	2.86	84	4412	Below	Cal #	86
29) Tetrahydrofuran	5.17	42	1437	0.84	ug/l #	86
36) 1,1-Dichloropropene	5.66	75	19010	3.84	ug/l #	49
38) Carbon Tetrachloride	5.66	117	25462	5.40	ug/l #	15
43) Isopropyl Acetate	6.38	43	6892	0.84	ug/l #	61
51) 4-Methyl-2-Pentanone	8.71	43	2721	0.40	ug/l #	1
56) Ethyl methacrylate	8.91	69	4160	0.75	ug/l #	79
59) 2-Hexanone	9.63	43	1773	0.35	ug/l	70
74) N-amyl acetate	6.38	43	6883	0.79	ug/l #	57
76) 1,2,3-Trichloropropane	11.14	75	104260	20.97	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.14	75	104260	56.72	ug/l #	10
88) 1,4-Dichlorobenzene	12.10	146	370	Below	Cal #	1
94) Hexachlorobutadiene	13.79	225	141	0.49	ug/l #	54

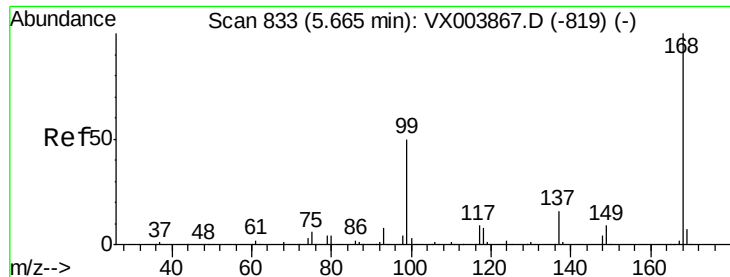
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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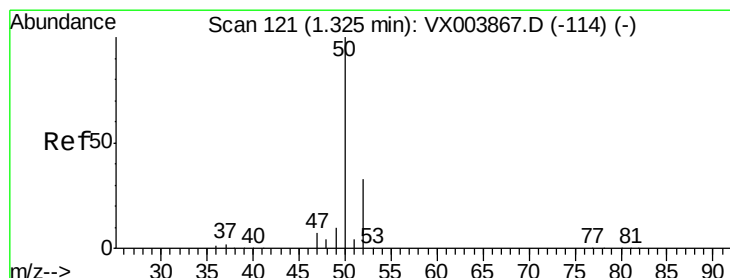
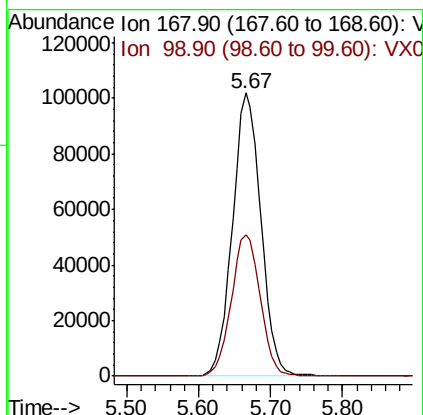
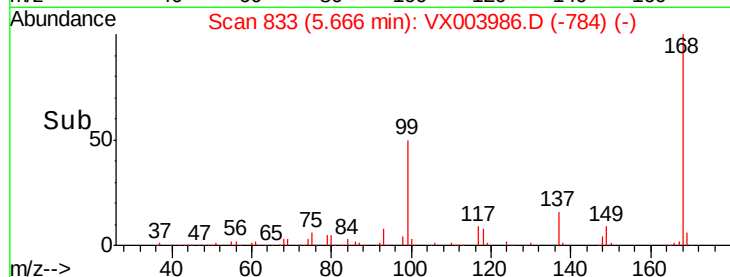
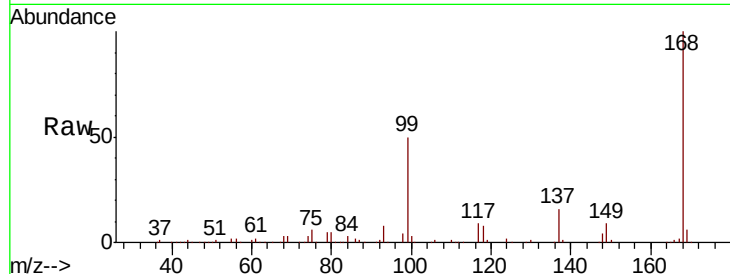




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.67 min Scan# 833
Delta R.T. 0.00 min
Lab File: VX003986.D
Acq: 10 Aug 2018 19:23

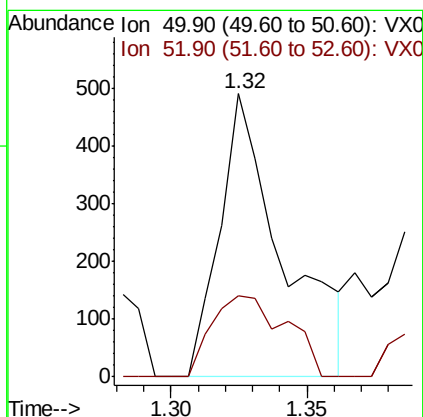
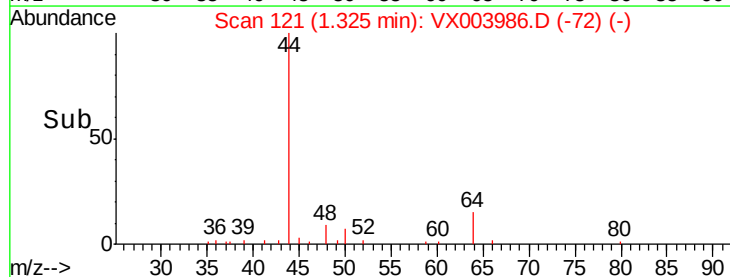
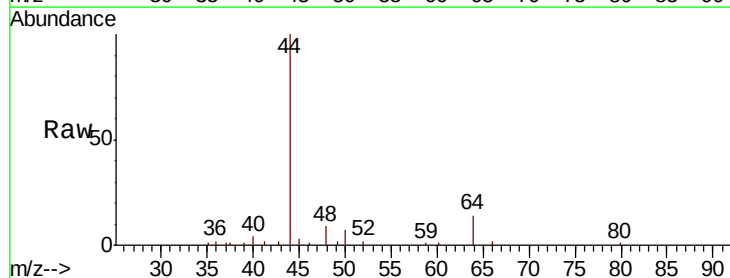
Instrument :
MSVOA_X
ClientSampleId :
MW-4

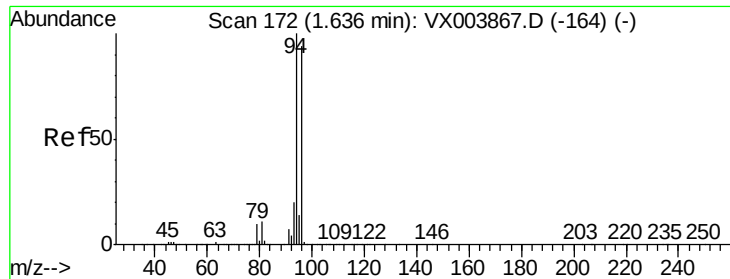
Tot Ion:168 Resp: 279224
Ion Ratio Lower Upper
168 100
99 49.9 40.1 60.1



#3
Chloromethane
Concen: 0.20 ug/l
RT: 1.32 min Scan# 121
Delta R.T. 0.00 min
Lab File: VX003986.D
Acq: 10 Aug 2018 19:23

Tgt Ion: 50 Resp: 786
Ion Ratio Lower Upper
50 100
52 28.8 26.6 39.8





#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 176

Delta R.T. 0.03 min

Lab File: VX003986.D

Acq: 10 Aug 2018 19:23

Instrument :

MSVOA_X

ClientSampled :

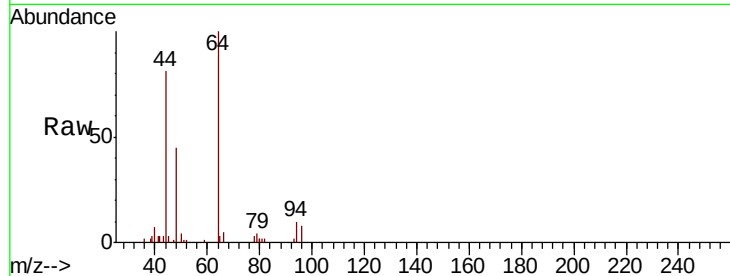
MW-4

Tot Ion: 94 Resp: 743

Ion Ratio Lower Upper

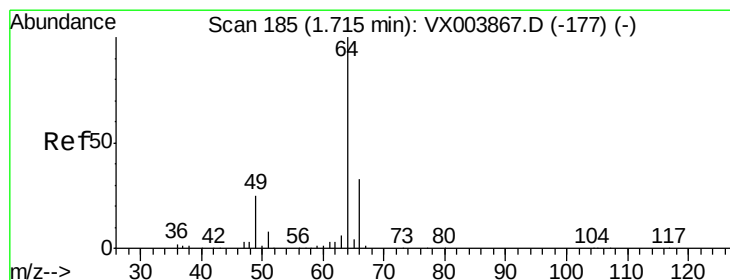
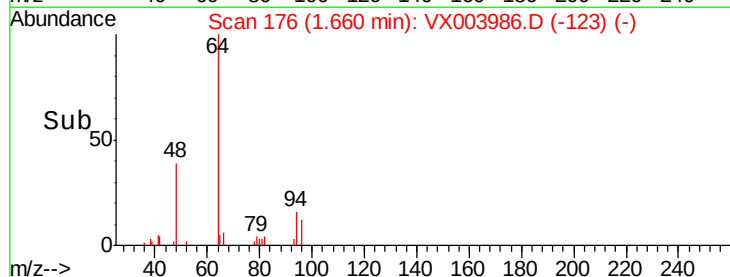
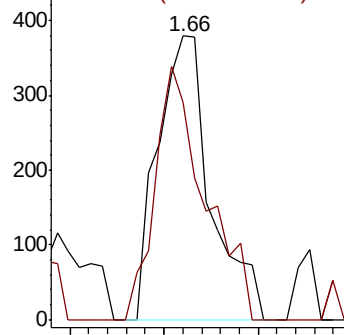
94 100

96 76.8 75.2 112.8



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 0.21 ug/l

RT: 1.94 min Scan# 222

Delta R.T. 0.23 min

Lab File: VX003986.D

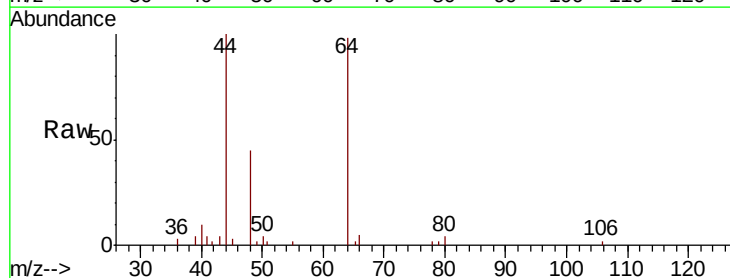
Acq: 10 Aug 2018 19:23

Tgt Ion: 64 Resp: 507

Ion Ratio Lower Upper

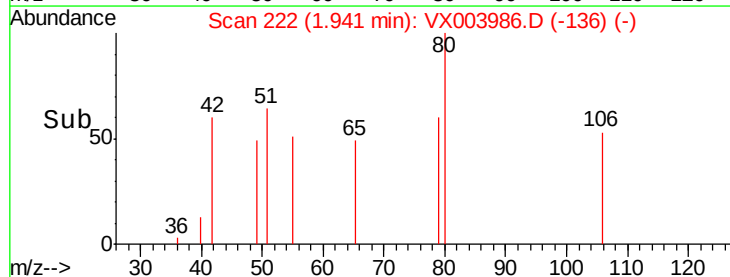
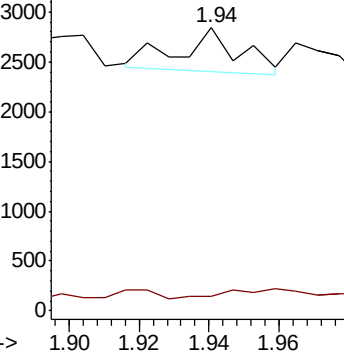
64 100

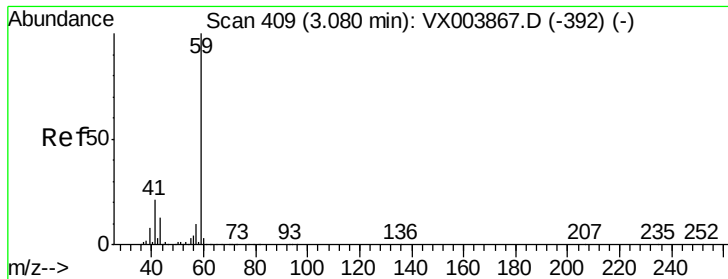
66 0.0 26.5 39.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



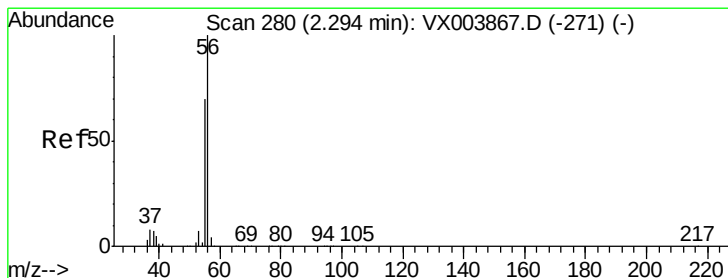
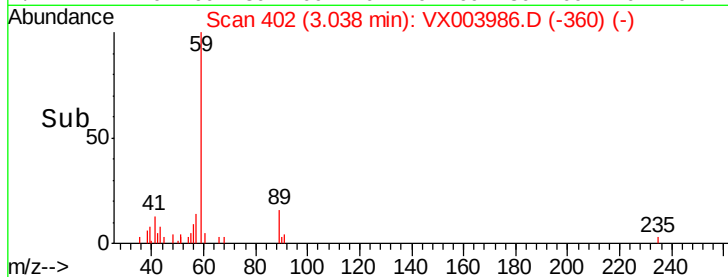
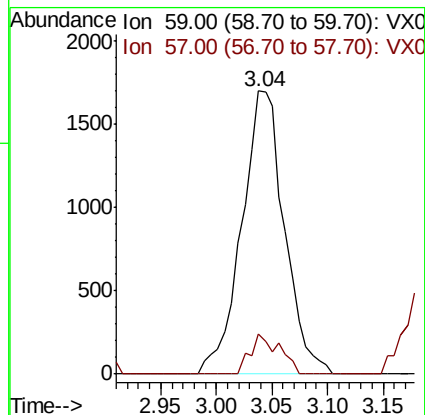
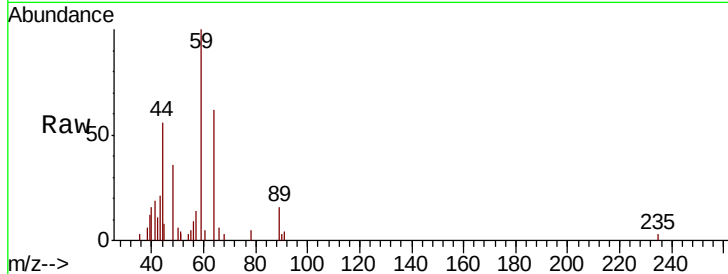


#11

Tert butyl alcohol
 Concen: 5.11 ug/l
 RT: 3.04 min Scan# 402
 Delta R.T. -0.04 min
 Lab File: VX003986.D
 Acq: 10 Aug 2018 19:23

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-4

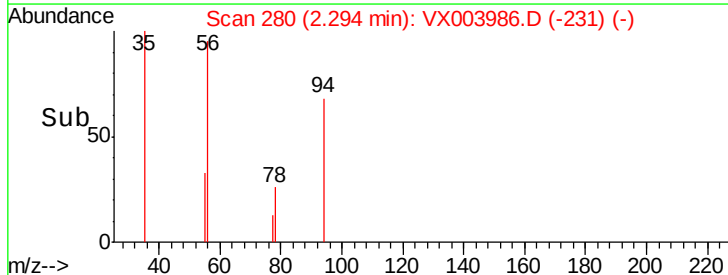
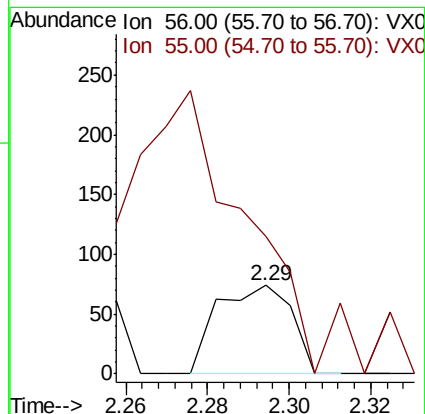
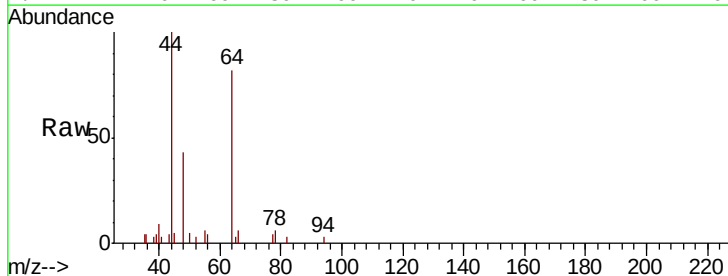
Tot Ion: 59 Resp: 4546
 Ion Ratio Lower Upper
 59 100
 57 9.7 8.1 12.1

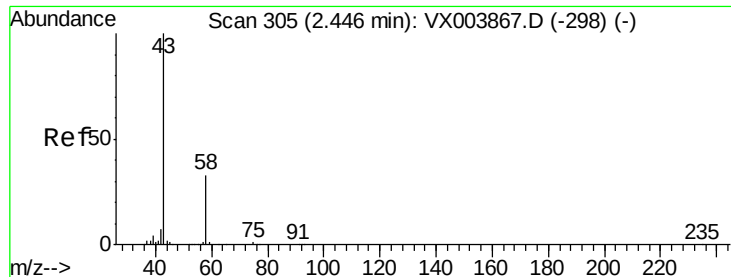


#13

Acrolein
 Concen: Below Cal
 RT: 2.29 min Scan# 280
 Delta R.T. 0.00 min
 Lab File: VX003986.D
 Acq: 10 Aug 2018 19:23

Tgt Ion: 56 Resp: 93
 Ion Ratio Lower Upper
 56 100
 55 537.6 56.1 84.1#





#16

Acetone

Concen: 1.48 ug/l

RT: 2.44 min Scan# 304

Delta R.T. -0.01 min

Lab File: VX003986.D

Acq: 10 Aug 2018 19:23

Instrument :

MSVOA_X

ClientSampled :

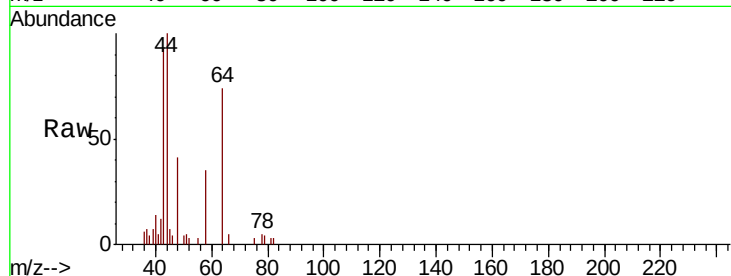
MW-4

Tot Ion: 43 Resp: 3267

Ion Ratio Lower Upper

43 100

58 38.3 26.4 39.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2000

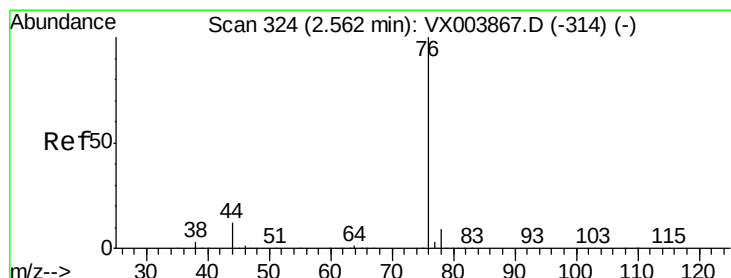
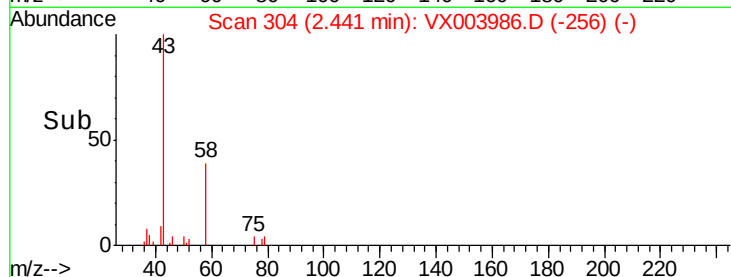
1500

1000

500

0

Time-->



#17

Carbon Disulfide

Concen: 0.54 ug/l

RT: 2.57 min Scan# 326

Delta R.T. 0.01 min

Lab File: VX003986.D

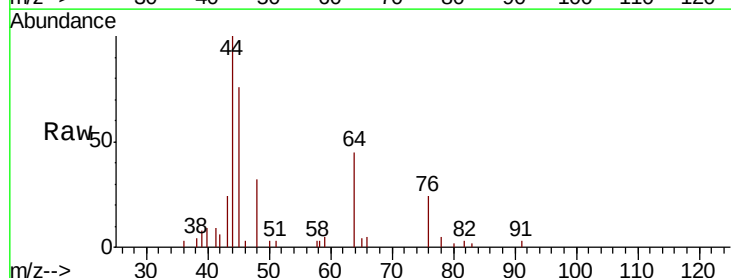
Acq: 10 Aug 2018 19:23

Tgt Ion: 76 Resp: 902

Ion Ratio Lower Upper

76 100

78 22.3 7.5 11.3#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

600

500

400

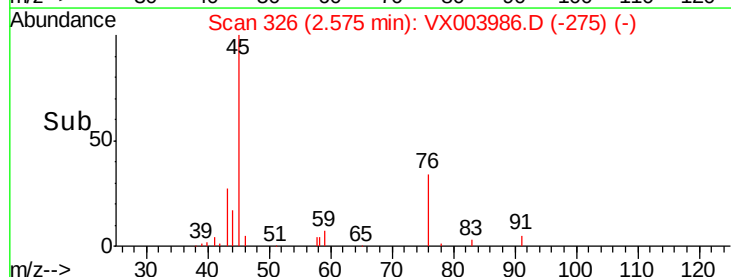
300

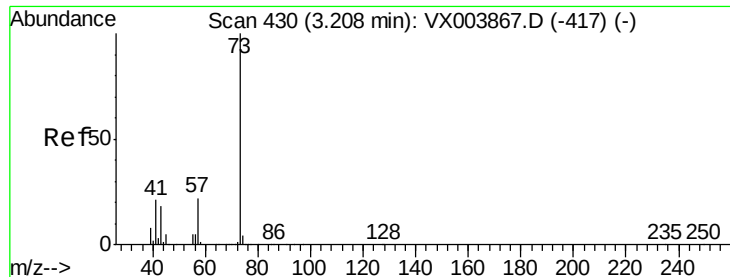
200

100

0

Time-->





#19

Methyl tert-butyl Ether

Concen: 0.88 ug/l

RT: 3.20 min Scan# 428

Delta R.T. -0.01 min

Lab File: VX003986.D

Acq: 10 Aug 2018 19:23

Instrument :

MSVOA_X

ClientSampleId :

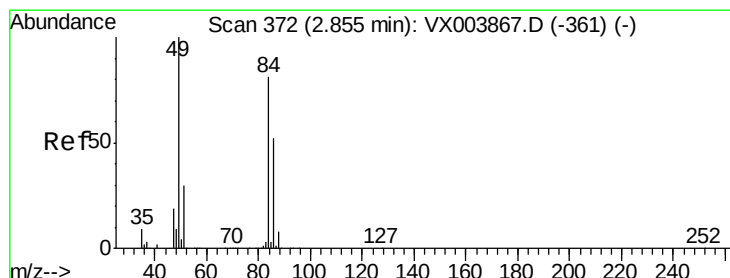
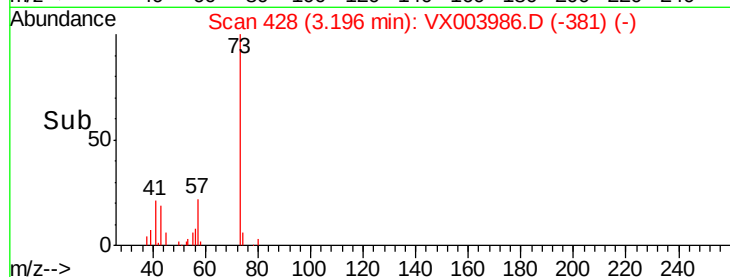
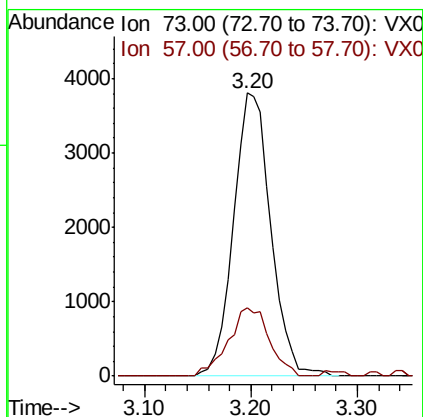
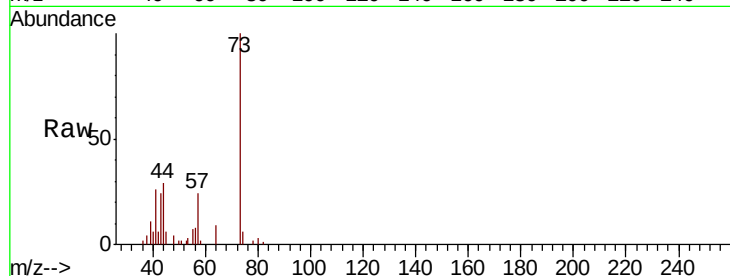
MW-4

Tot Ion: 73 Resp: 9342

Ion Ratio Lower Upper

73 100

57 24.2 18.0 27.0



#20

Methylene Chloride

Concen: Below Cal

RT: 2.86 min Scan# 373

Delta R.T. 0.01 min

Lab File: VX003986.D

Acq: 10 Aug 2018 19:23

Tgt Ion: 84 Resp: 4412

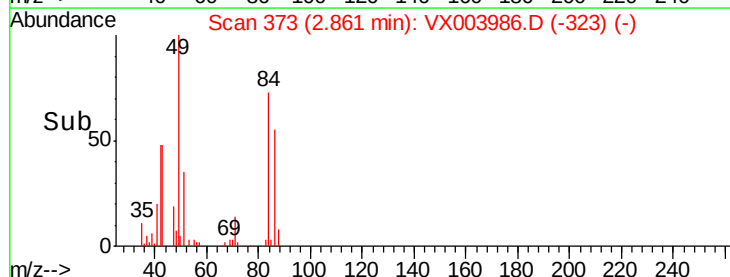
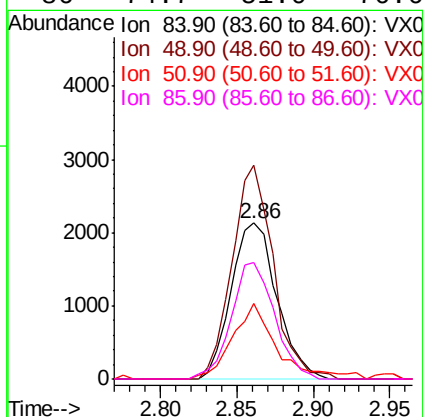
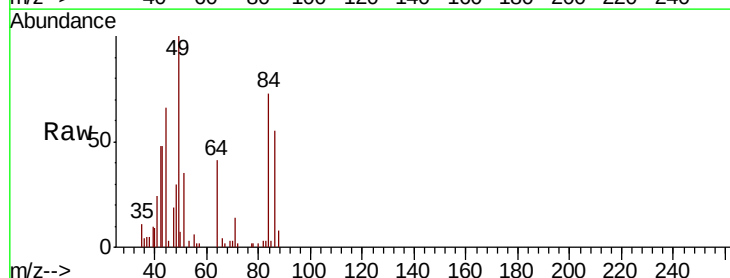
Ion Ratio Lower Upper

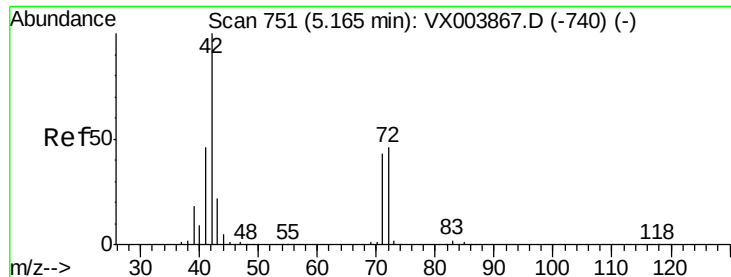
84 100

49 137.0 98.9 148.3

51 48.3 29.9 44.9#

86 74.7 51.0 76.6

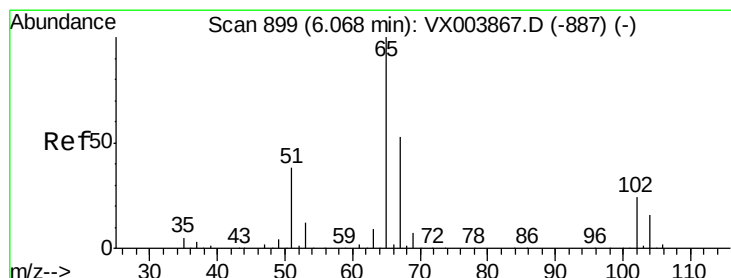
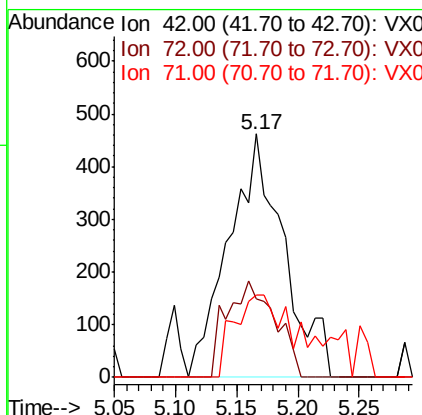
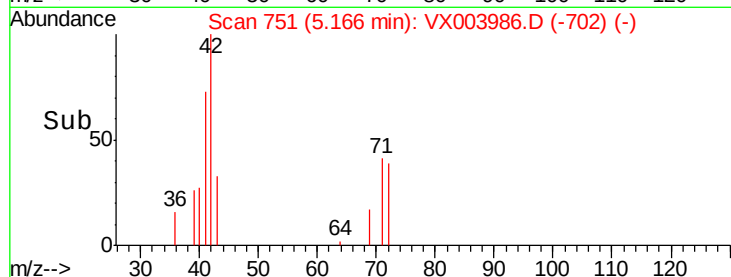
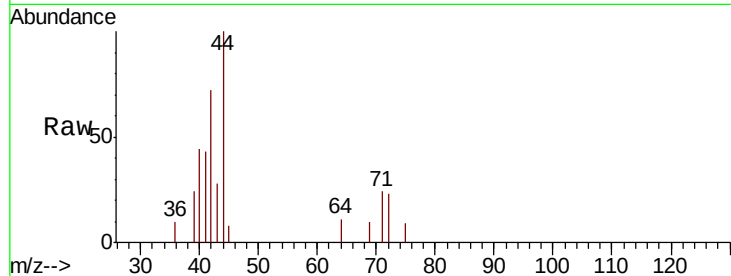




#29
Tetrahydrofuran
Concen: 0.84 ug/l
RT: 5.17 min Scan# 751
Delta R.T. 0.00 min
Lab File: VX003986.D
Acq: 10 Aug 2018 19:23

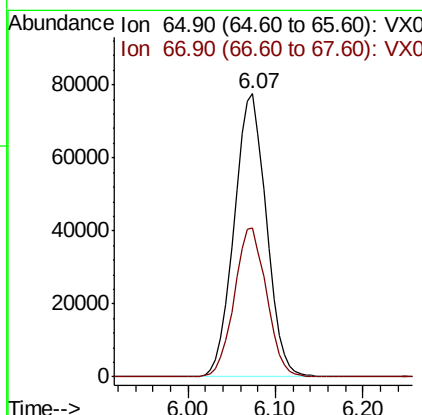
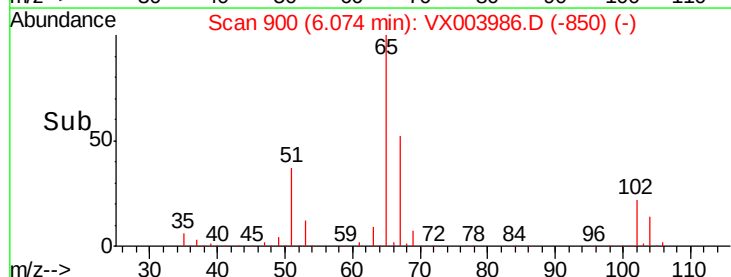
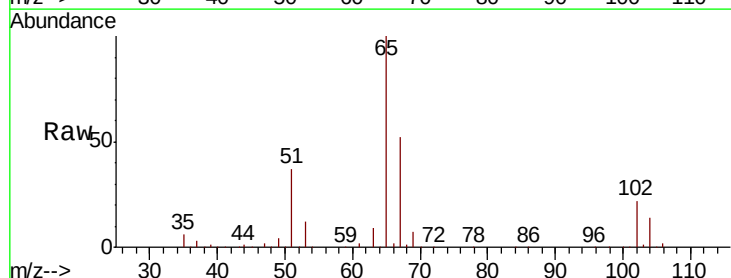
Instrument :
MSVOA_X
ClientSampled :
MW-4

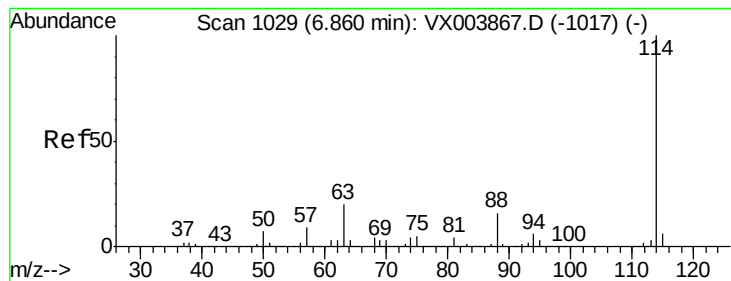
Tot Ion: 42 Resp: 1437
Ion Ratio Lower Upper
42 100
72 35.0 37.7 56.5#
71 37.6 35.0 52.6



#33
1,2-Dichloroethane-d4
Concen: 53.75 ug/l
RT: 6.07 min Scan# 900
Delta R.T. 0.01 min
Lab File: VX003986.D
Acq: 10 Aug 2018 19:23

Tgt Ion: 65 Resp: 198963
Ion Ratio Lower Upper
65 100
67 52.7 0.0 105.8





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. 0.01 min

Lab File: VX003986.D

Acq: 10 Aug 2018 19:23

Instrument :

MSVOA_X

ClientSampleId :

MW-4

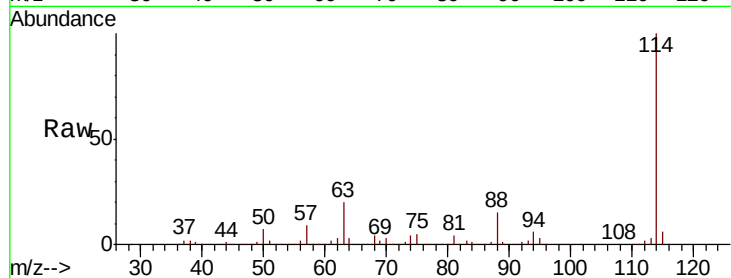
Tot Ion:114 Resp: 442182

Ion Ratio Lower Upper

114 100

63 20.1 0.0 39.0

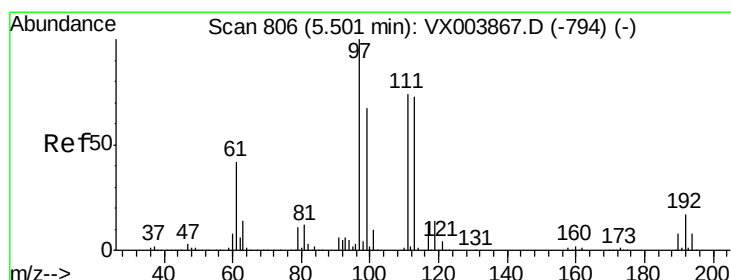
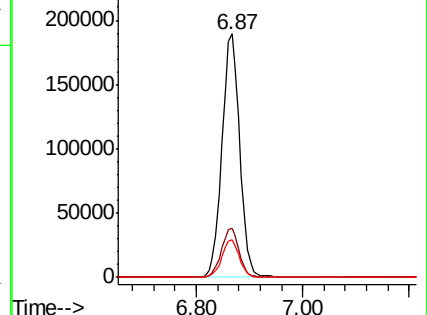
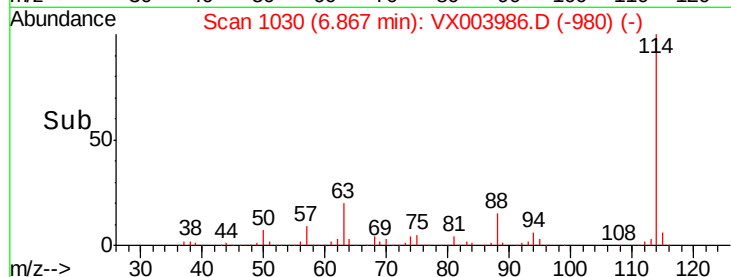
88 15.3 0.0 32.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 51.41 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.01 min

Lab File: VX003986.D

Acq: 10 Aug 2018 19:23

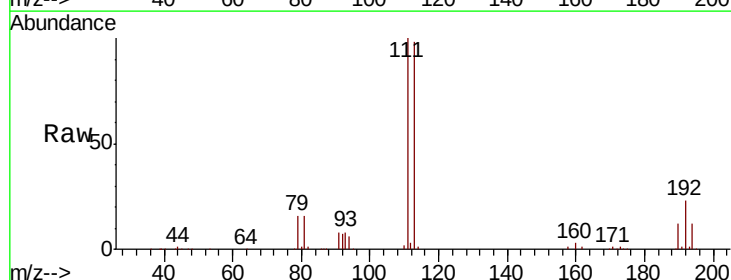
Tgt Ion:113 Resp: 172224

Ion Ratio Lower Upper

113 100

111 102.2 82.0 123.0

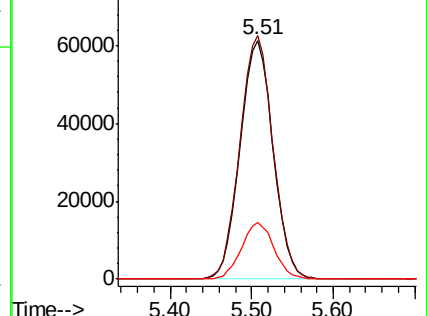
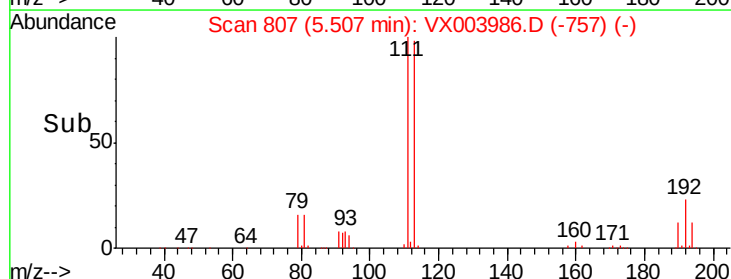
192 23.4 19.0 28.4

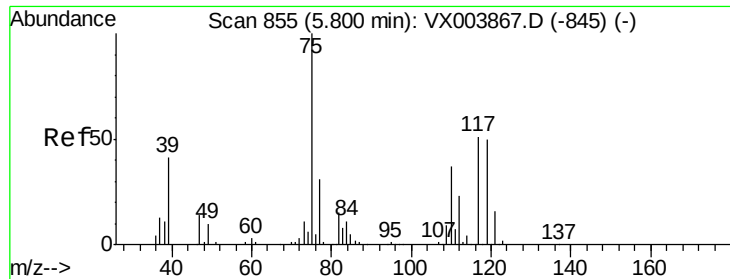


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

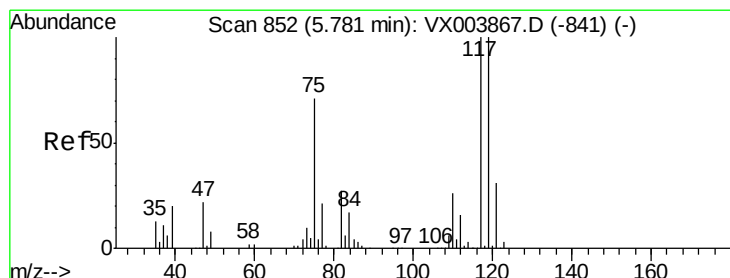
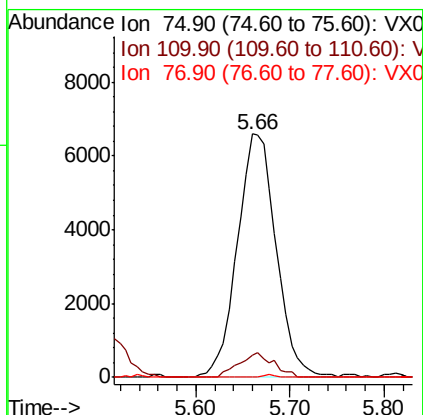
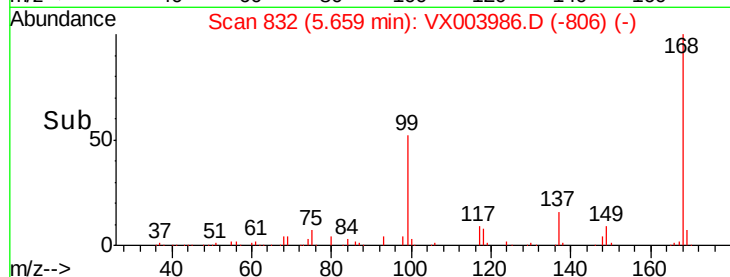
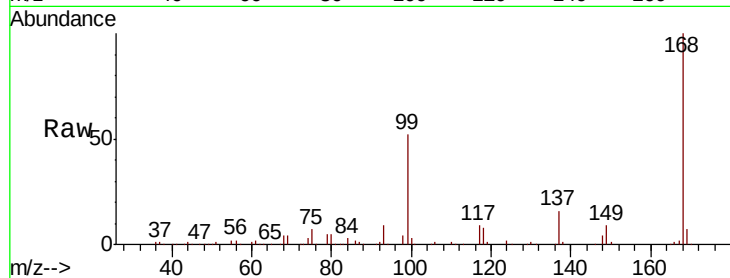




#36
 1,1-Dichloropropene
 Concen: 3.84 ug/l
 RT: 5.66 min Scan# 832
 Delta R.T. -0.14 min
 Lab File: VX003986.D
 Acq: 10 Aug 2018 19:23

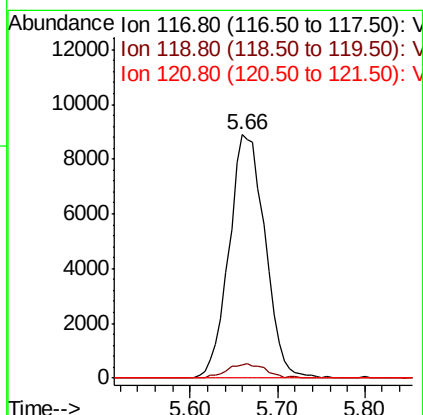
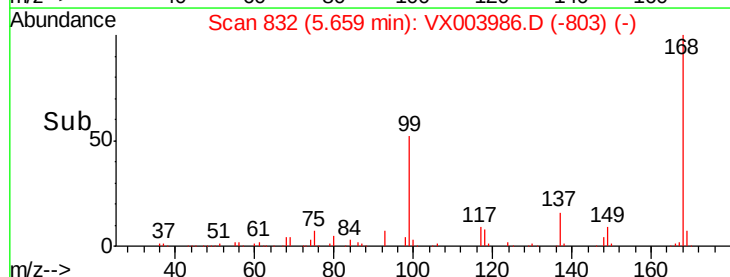
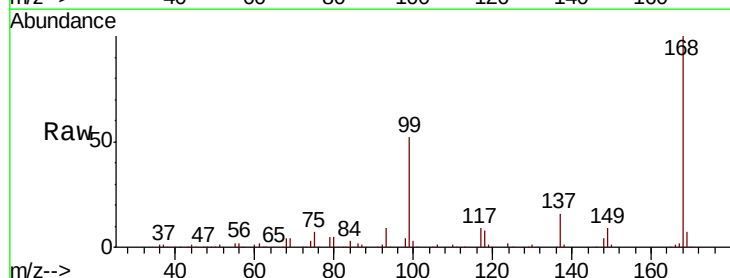
Instrument :
 MSVOA_X
 ClientSampled :
 MW-4

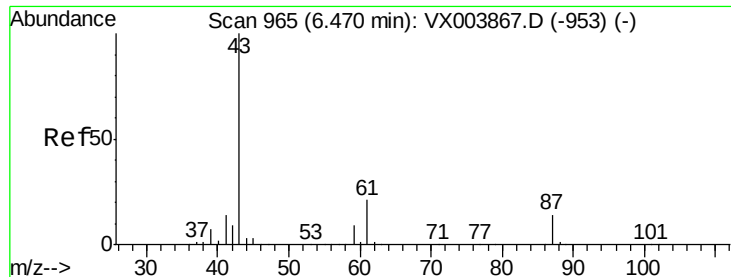
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.9	18.2	54.6#
77	0.4	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 5.40 ug/l
 RT: 5.66 min Scan# 832
 Delta R.T. -0.12 min
 Lab File: VX003986.D
 Acq: 10 Aug 2018 19:23

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.6	79.5	119.3#
121	0.0	25.0	37.4#





#43

Isopropyl Acetate

Concen: 0.84 ug/l

RT: 6.38 min Scan# 951

Delta R.T. -0.09 min

Lab File: VX003986.D

Acq: 10 Aug 2018 19:23

Instrument :

MSVOA_X

ClientSampleId :

MW-4

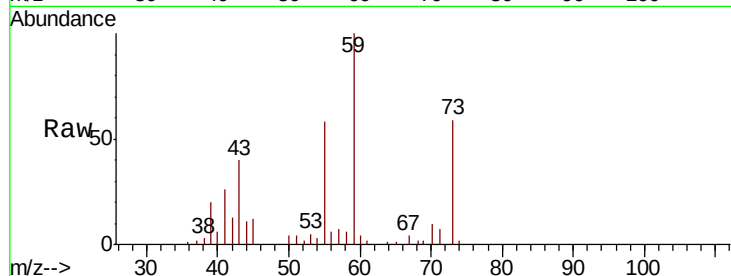
Tot Ion: 43 Resp: 6892

Ion Ratio Lower Upper

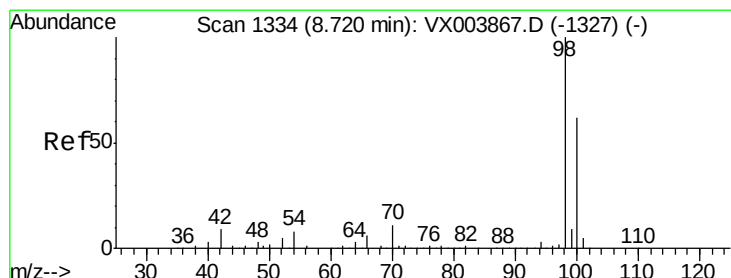
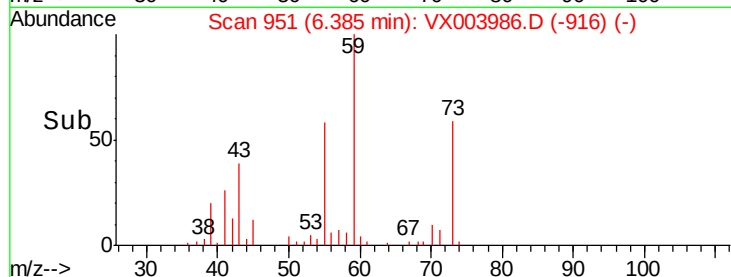
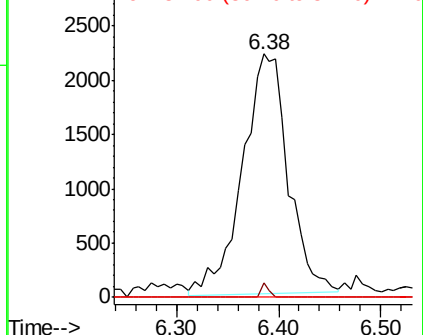
43 100

61 1.1 16.9 25.3#

87 0.0 11.3 16.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 61.00 (60.70 to 61.70): VX0
Ion 87.00 (86.70 to 87.70): VX0



#50

Toluene-d8

Concen: 48.78 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003986.D

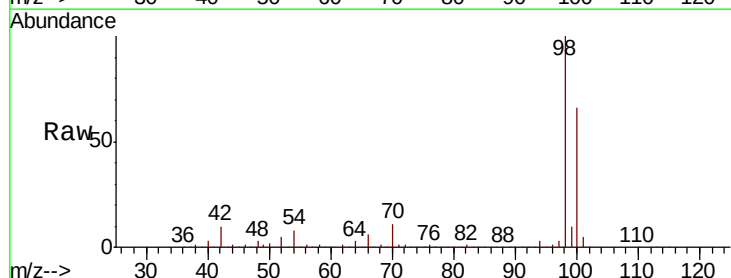
Acq: 10 Aug 2018 19:23

Tgt Ion: 98 Resp: 635414

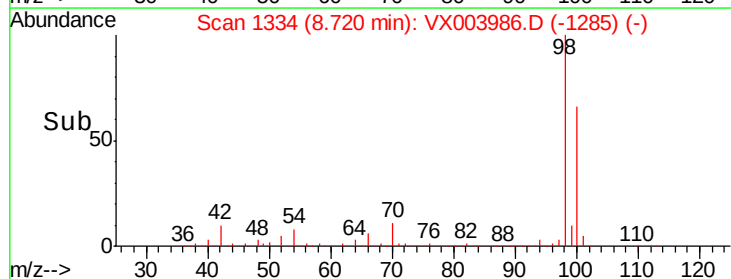
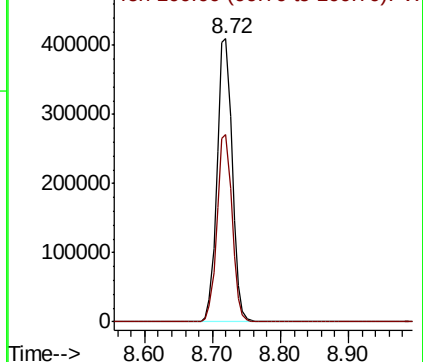
Ion Ratio Lower Upper

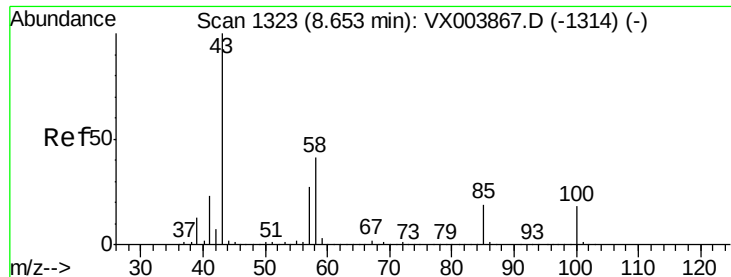
98 100

100 65.8 53.3 79.9



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





#51

4-Methyl-2-Pentanone

Concen: 0.40 ug/l

RT: 8.71 min Scan# 1333

Delta R.T. 0.06 min

Lab File: VX003986.D

Acq: 10 Aug 2018 19:23

Instrument :

MSVOA_X

ClientSampled :

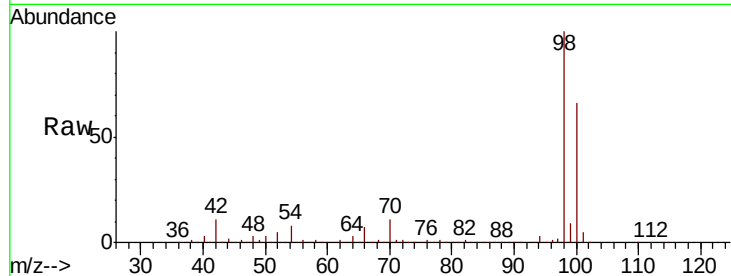
MW-4

Tot Ion: 43 Resp: 2721

Ion Ratio Lower Upper

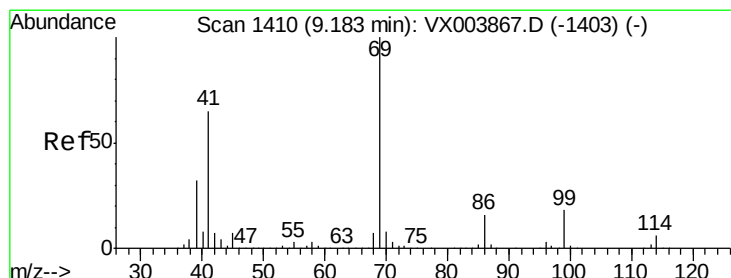
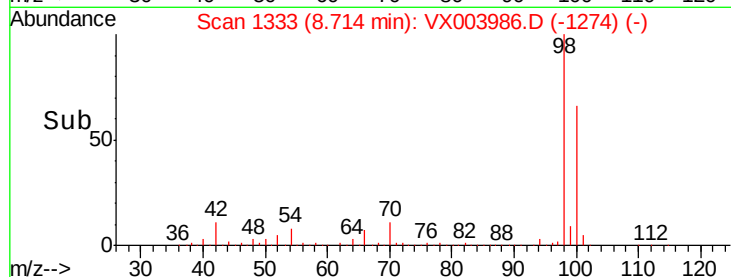
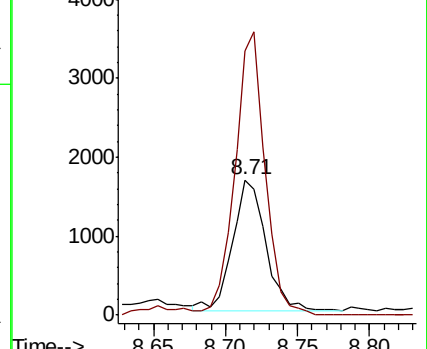
43 100

58 193.1 33.0 49.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#56

Ethyl methacrylate

Concen: 0.75 ug/l

RT: 8.91 min Scan# 1366

Delta R.T. -0.27 min

Lab File: VX003986.D

Acq: 10 Aug 2018 19:23

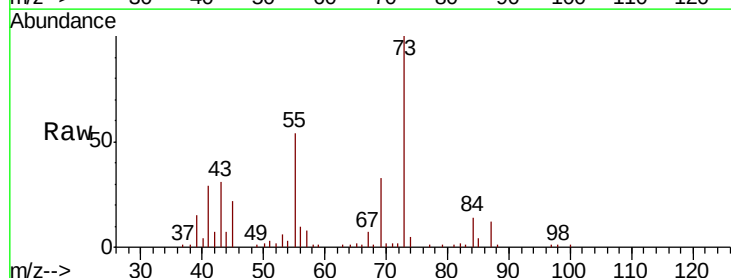
Tgt Ion: 69 Resp: 4160

Ion Ratio Lower Upper

69 100

41 83.8 50.6 76.0#

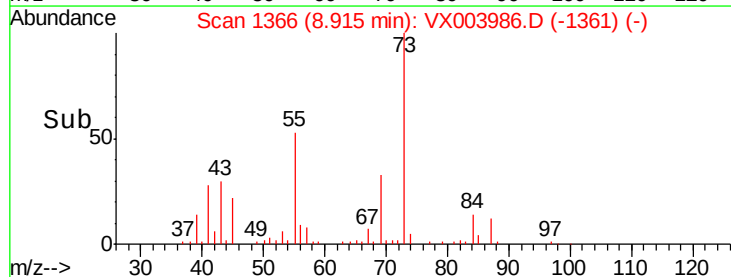
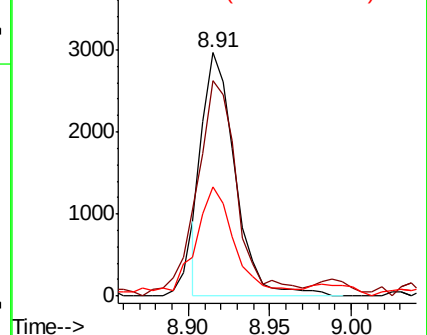
39 38.6 25.8 38.6

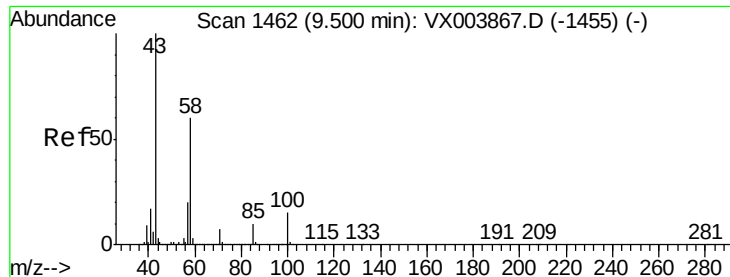


Abundance Ion 69.00 (68.70 to 69.70): VX0

Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

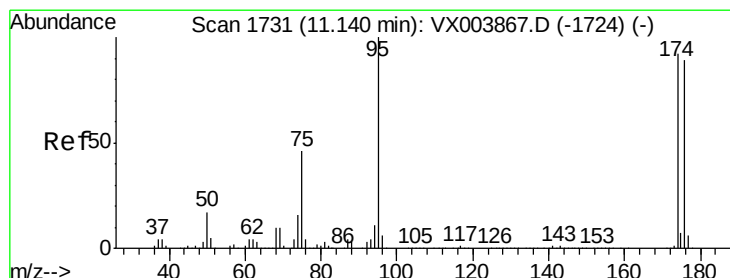
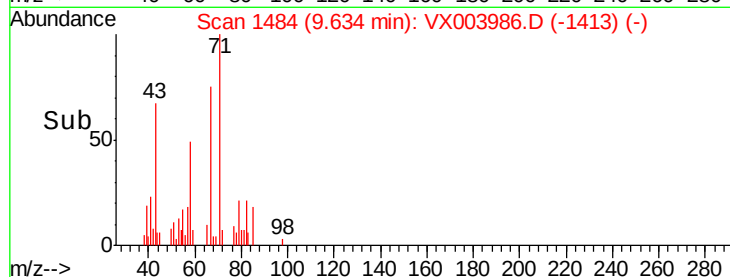
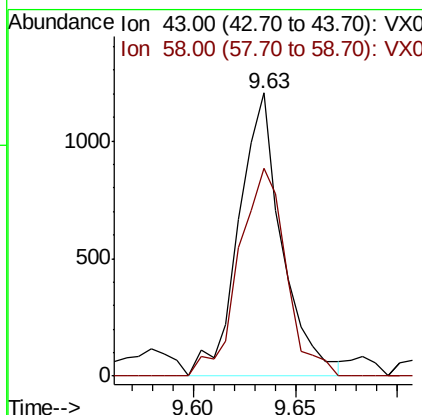
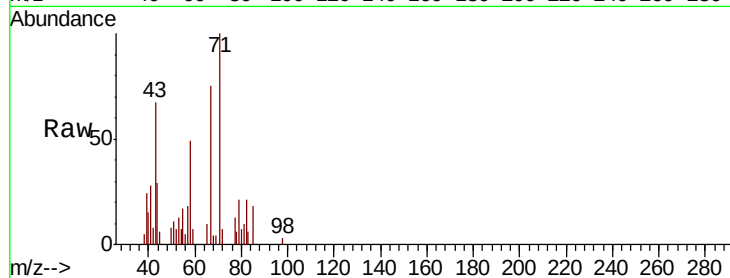




#59
2-Hexanone
Concen: 0.35 ug/l
RT: 9.63 min Scan# 1484
Delta R.T. 0.13 min
Lab File: VX003986.D
Acq: 10 Aug 2018 19:23

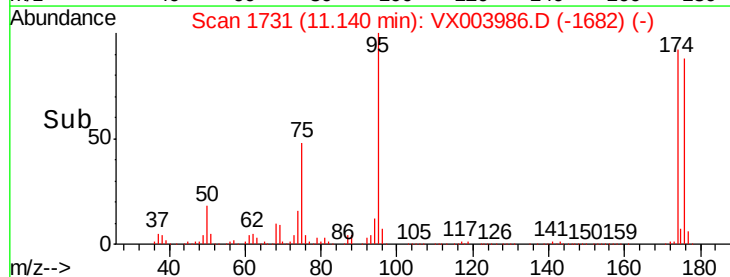
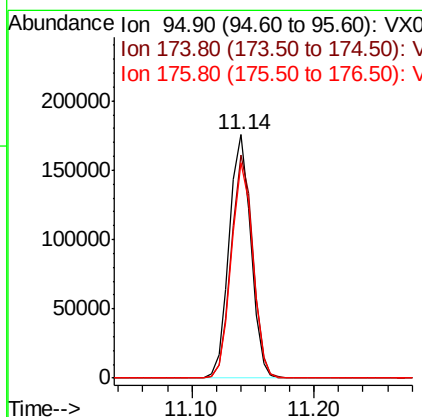
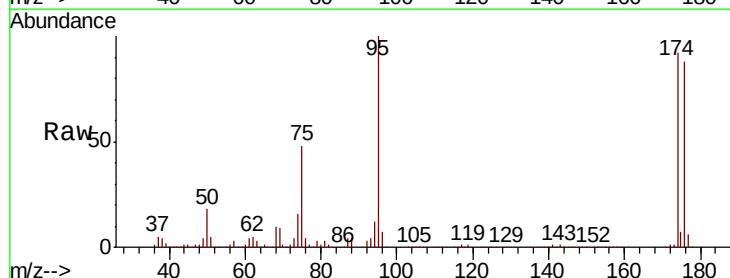
Instrument :
MSVOA_X
ClientSampleId :
MW-4

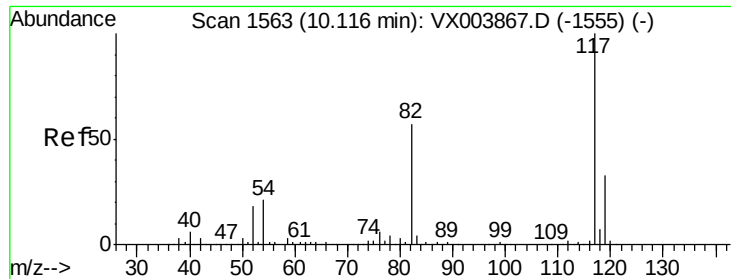
Tot Ion: 43 Resp: 1773
Ion Ratio Lower Upper
43 100
58 80.2 29.0 87.0



#62
4-Bromofluorobenzene
Concen: 50.91 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX003986.D
Acq: 10 Aug 2018 19:23

Tgt Ion: 95 Resp: 214605
Ion Ratio Lower Upper
95 100
174 91.9 0.0 182.8
176 87.9 0.0 179.0

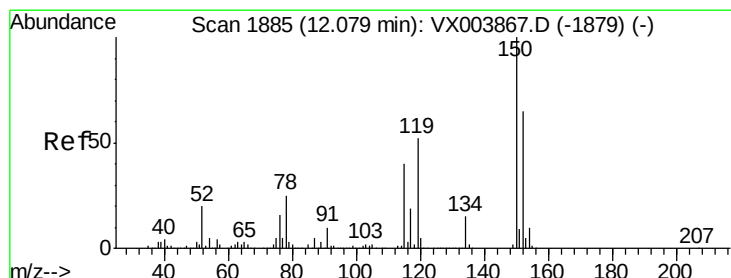
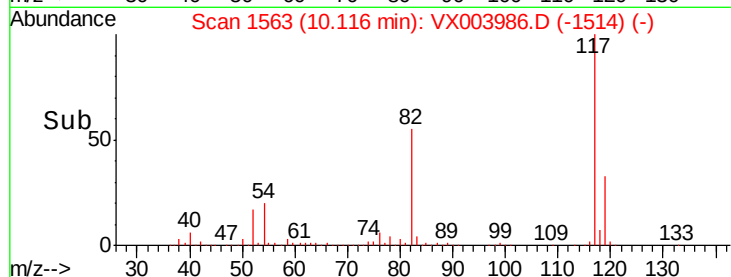
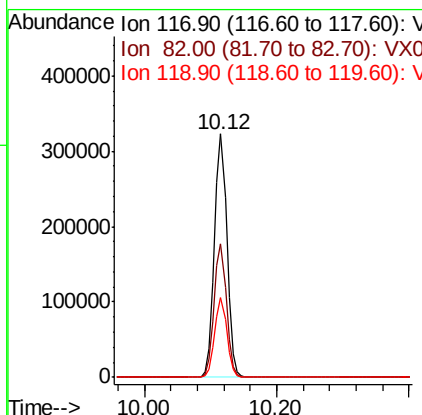
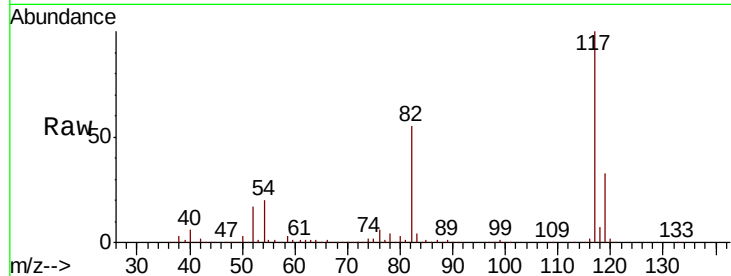




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX003986.D
Acq: 10 Aug 2018 19:23

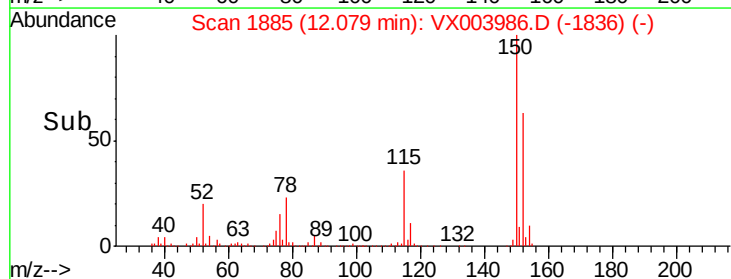
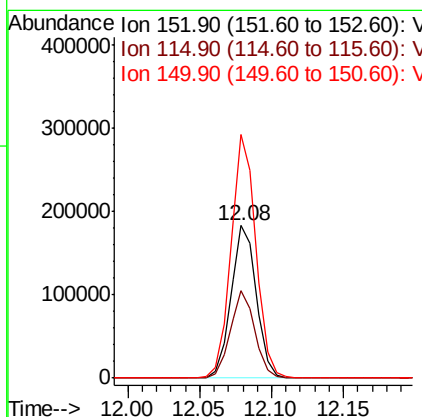
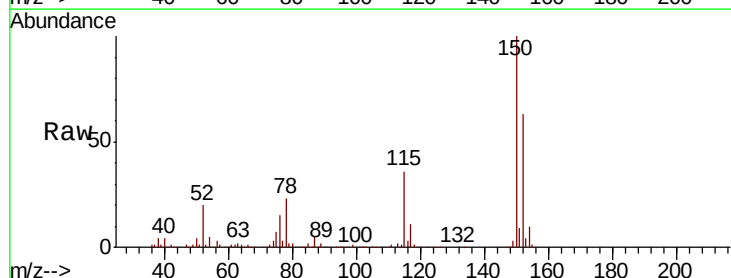
Instrument :
MSVOA_X
ClientSampled :
MW-4

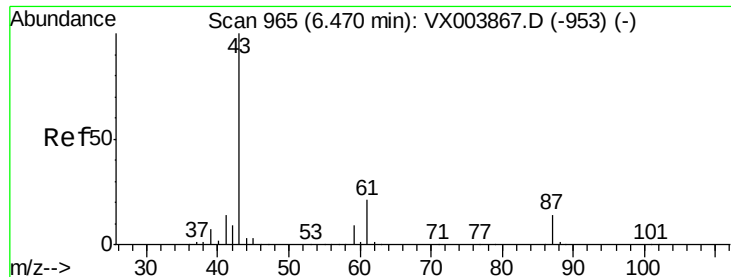
Tot Ion:117 Resp: 418190
Ion Ratio Lower Upper
117 100
82 55.1 45.4 68.0
119 32.7 26.6 40.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1885
Delta R.T. 0.00 min
Lab File: VX003986.D
Acq: 10 Aug 2018 19:23

Tgt Ion:152 Resp: 225137
Ion Ratio Lower Upper
152 100
115 55.4 39.1 117.3
150 156.9 0.0 349.2





#74

N-amyl acetate

Concen: 0.79 ug/l

RT: 6.38 min Scan# 951

Delta R.T. -0.09 min

Lab File: VX003986.D

Acq: 10 Aug 2018 19:23

Instrument :

MSVOA_X

ClientSampled :

MW-4

Tot Ion: 43 Resp: 6883

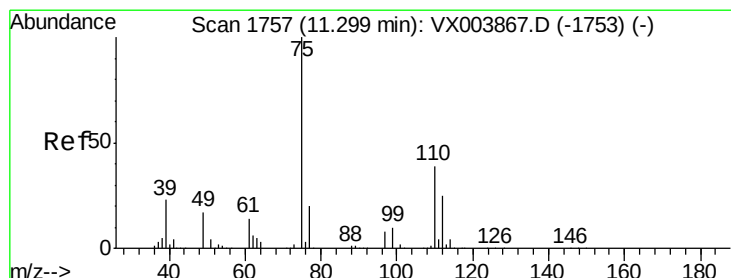
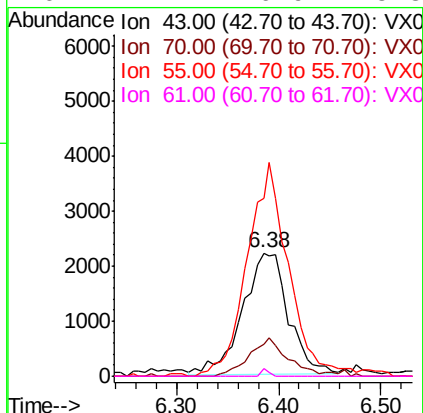
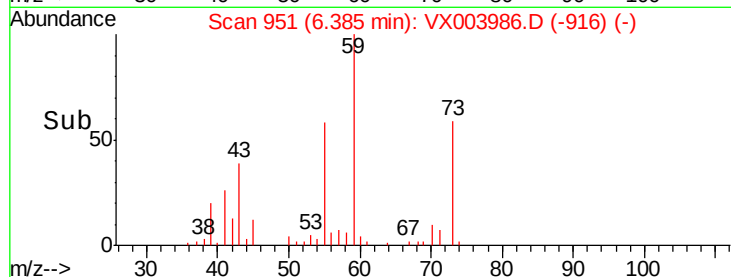
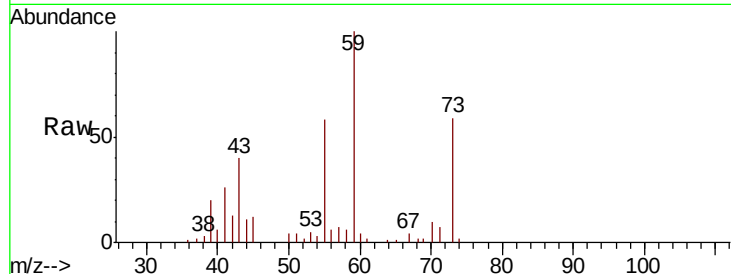
Ion Ratio Lower Upper

43 100

70 27.1 0.0 0.0#

55 158.4 0.1 0.1#

61 1.1 16.9 25.3#



#76

1,2,3-Trichloropropane

Concen: 20.97 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003986.D

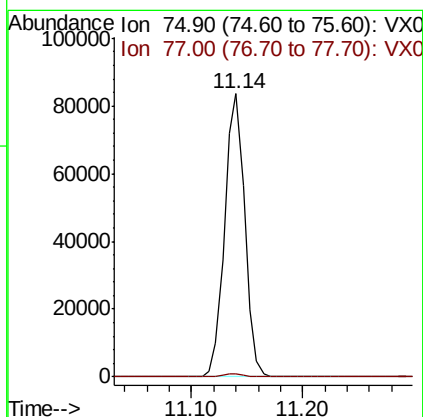
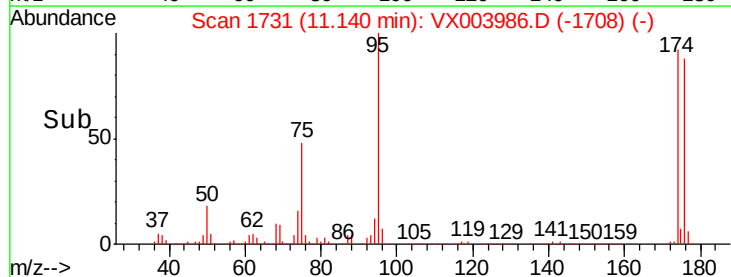
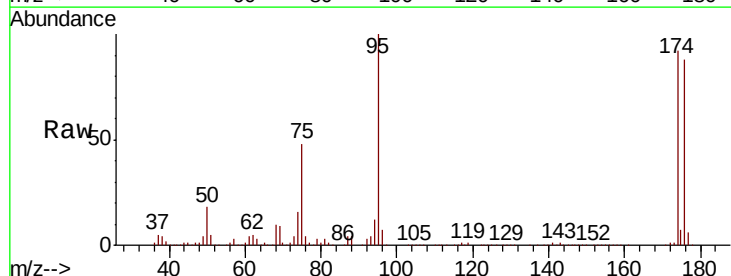
Acq: 10 Aug 2018 19:23

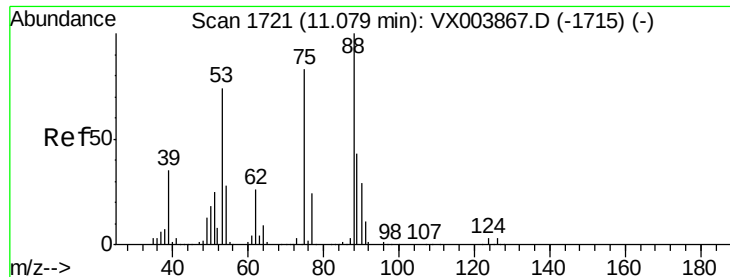
Tgt Ion: 75 Resp: 104260

Ion Ratio Lower Upper

75 100

77 1.4 20.8 62.5#

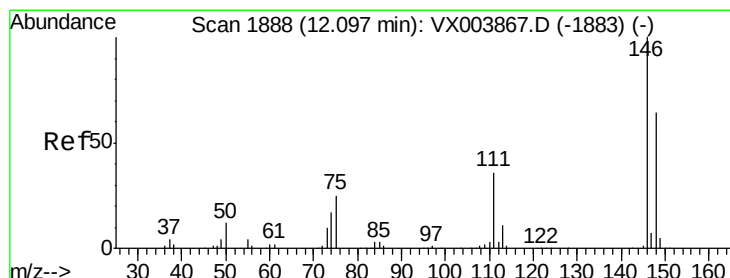
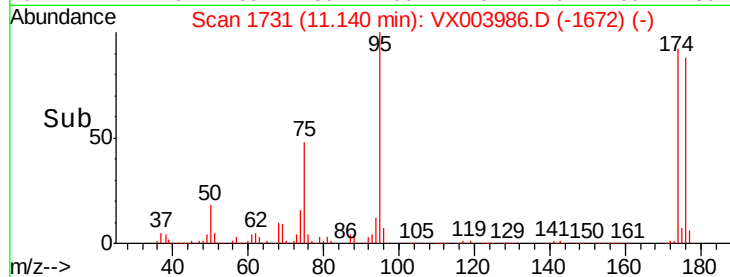
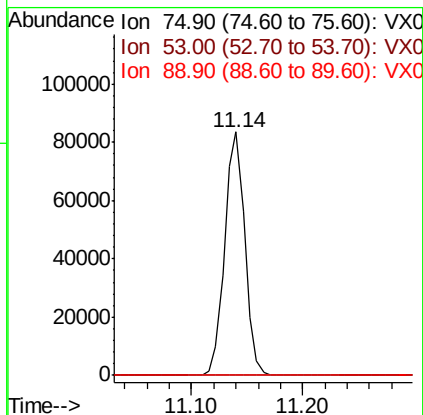
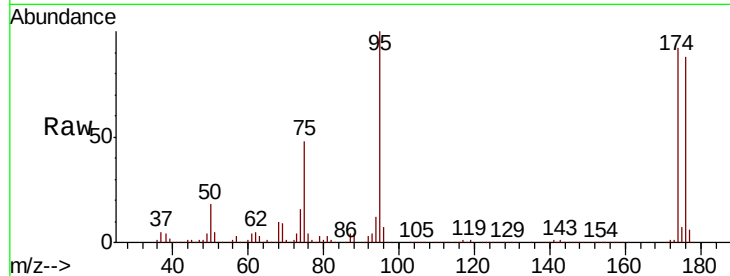




#81
trans-1,4-Dichloro-2-butene
Concen: 56.72 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.06 min
Lab File: VX003986.D
Acq: 10 Aug 2018 19:23

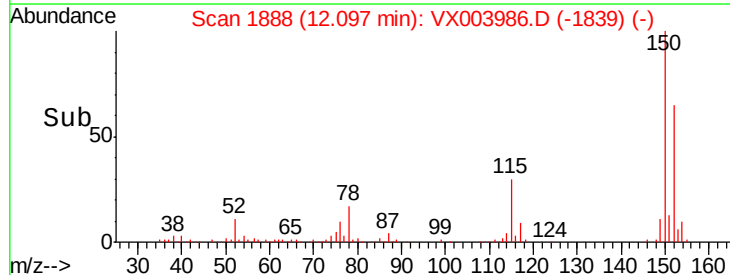
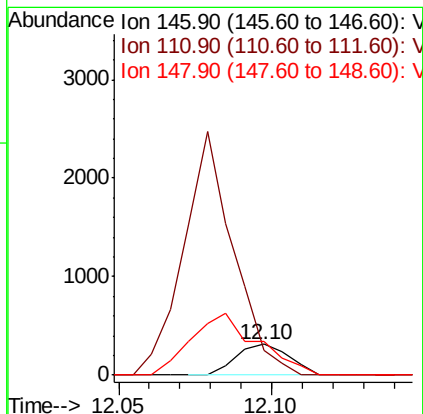
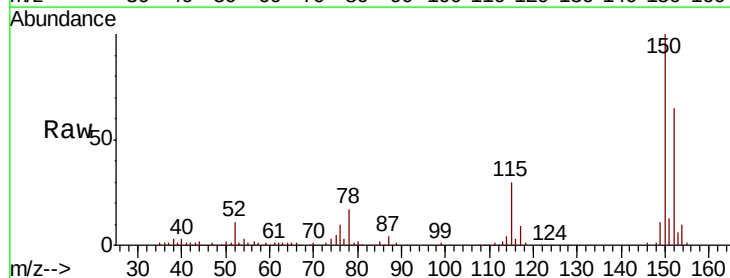
Instrument :
MSVOA_X
ClientSampled :
MW-4

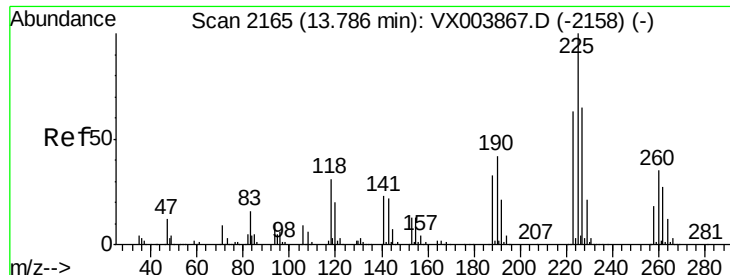
Tot Ion: 75 Resp: 104260
Ion Ratio Lower Upper
75 100
53 0.3 80.3 120.5#
89 0.0 37.8 56.8#



#88
1,4-Dichlorobenzene
Concen: Below Cal
RT: 12.10 min Scan# 1888
Delta R.T. 0.00 min
Lab File: VX003986.D
Acq: 10 Aug 2018 19:23

Tgt Ion: 146 Resp: 370
Ion Ratio Lower Upper
146 100
111 759.5 18.4 55.0#
148 256.5 32.3 96.8#





#94

Hexachlorobutadiene

Concen: 0.49 ug/l

RT: 13.79 min Scan# 2165

Delta R.T. 0.00 min

Lab File: VX003986.D

Acq: 10 Aug 2018 19:23

Instrument :

MSVOA_X

ClientSampleId :

MW-4

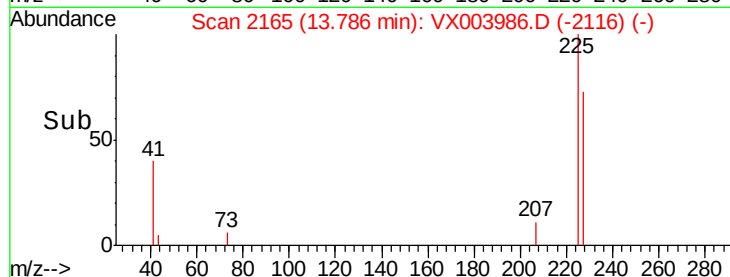
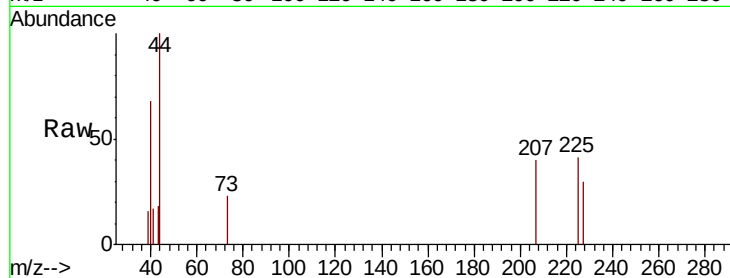
Tot Ion:225 Resp: 141

Ion Ratio Lower Upper

225 100

223 14.2 31.4 94.0#

227 40.4 32.1 96.5



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

