

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX090618\
 Data File : VX004391.D
 Acq On : 06 Sep 2018 17:59
 Operator : JC/MD
 Sample : PB112611ZHE#03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB112611ZHE#03

Quant Time: Sep 07 04:47:13 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082218W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 23 05:39:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	296401	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	480461	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	473783	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	250032	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	206623	53.48	ug/l	0.00
Spiked Amount			Recovery	=	106.96%	
35) Dibromofluoromethane	5.50	113	182847	51.16	ug/l	0.00
Spiked Amount			Recovery	=	102.32%	
50) Toluene-d8	8.72	98	689341	51.09	ug/l	0.00
Spiked Amount			Recovery	=	102.18%	
62) 4-Bromofluorobenzene	11.14	95	242046	48.08	ug/l	0.00
Spiked Amount			Recovery	=	96.16%	

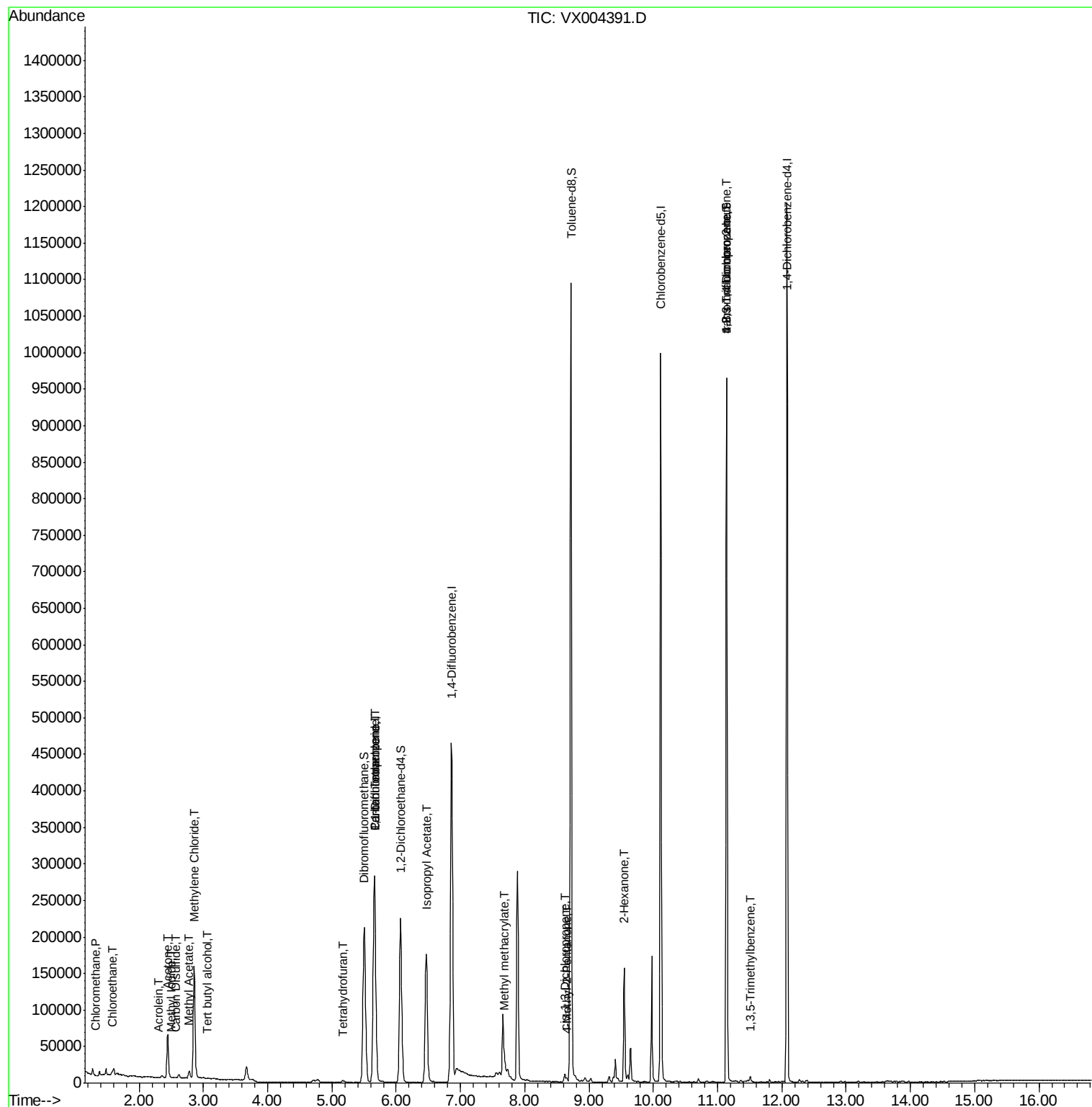
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	896	0.52	ug/l	# 60
5) Bromomethane	1.65	94	1067	Below Cal		95
6) Chloroethane	1.57	64	224	1.04	ug/l	# 44
10) Methyl Iodide	2.51	142	516	4.39	ug/l	# 86
11) Tert butyl alcohol	3.07	59	1072	1.30	ug/l	# 77
13) Acrolein	2.30	56	405	2.04	ug/l	91
16) Acetone	2.45	43	64210	33.73	ug/l	100
17) Carbon Disulfide	2.57	76	840	0.89	ug/l	# 85
18) Methyl Acetate	2.78	43	12220	2.13	ug/l	99
20) Methylene Chloride	2.85	84	71642	19.26	ug/l	97
25) 2-Butanone	4.71	43	5576	Below Cal		98
29) Tetrahydrofuran	5.17	42	2421	1.46	ug/l	93
36) 1,1-Dichloropropene	5.66	75	19096	3.54	ug/l	# 49
38) Carbon Tetrachloride	5.66	117	25631	5.04	ug/l	# 16
43) Isopropyl Acetate	6.47	43	230203	28.20	ug/l	100
48) Methyl methacrylate	7.69	41	12971	2.97	ug/l	# 18
51) 4-Methyl-2-Pentanone	8.65	43	2133	0.36	ug/l	# 63
54) cis-1,3-Dichloropropene	8.62	75	1824	0.30	ug/l	# 63
59) 2-Hexanone	9.55	43	16030	3.54	ug/l	# 56
76) 1,2,3-Trichloropropane	11.14	75	112463	22.12	ug/l	# 37
80) 1,3,5-Trimethylbenzene	11.51	105	2902	0.21	ug/l	91
81) trans-1,4-Dichloro-2-buten	11.14	75	112463	71.76	ug/l	# 10
94) Hexachlorobutadiene	13.79	225	165	Below Cal		# 72

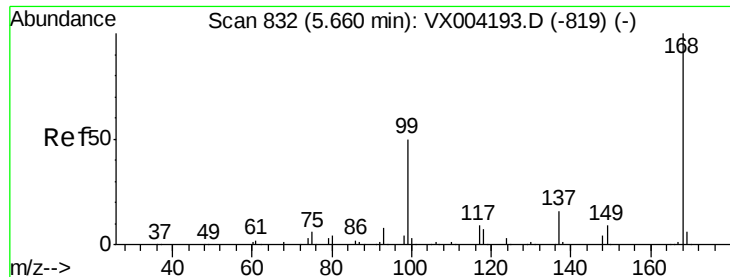
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Aug 23 05:39:44 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX004391.D

Acq: 06 Sep 2018 17:59

Instrument :

MSVOA_X

ClientSampleId :

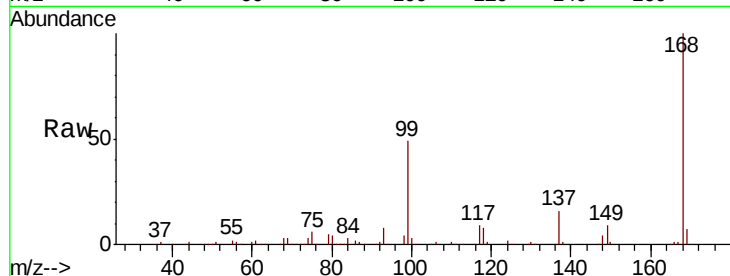
PB112611ZHE#03

Tot Ion:168 Resp: 296401

Ion Ratio Lower Upper

168 100

99 49.2 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

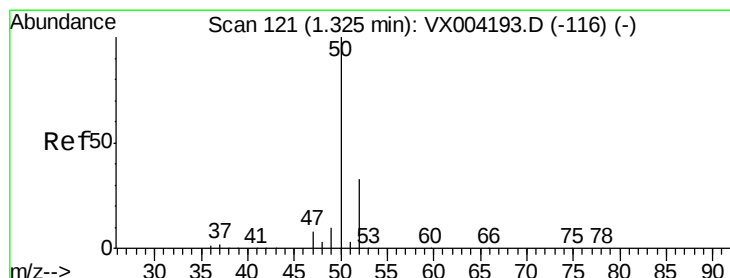
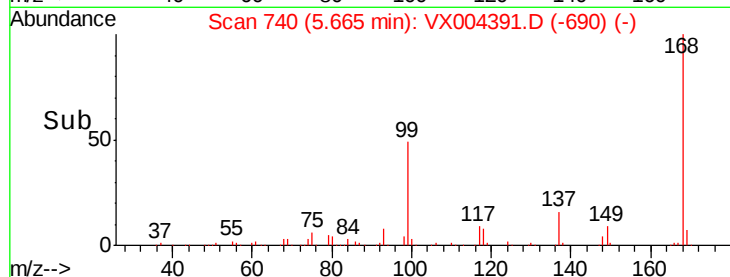
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.52 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX004391.D

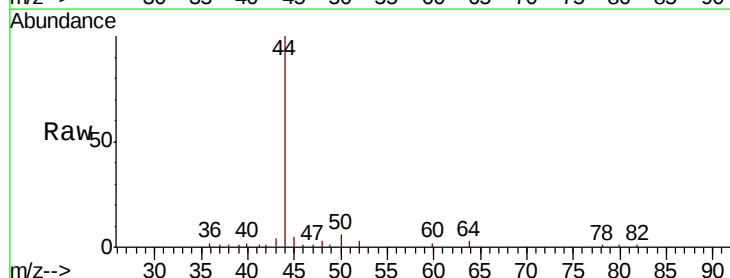
Acq: 06 Sep 2018 17:59

Tgt Ion: 50 Resp: 896

Ion Ratio Lower Upper

50 100

52 55.2 26.2 39.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

500

400

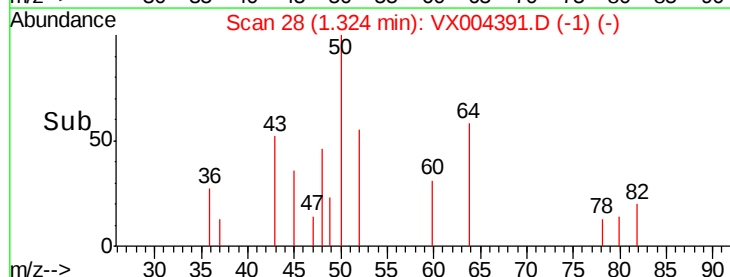
300

200

100

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX004391.D

Acq: 06 Sep 2018 17:59

Instrument :

MSVOA_X

ClientSampleId :

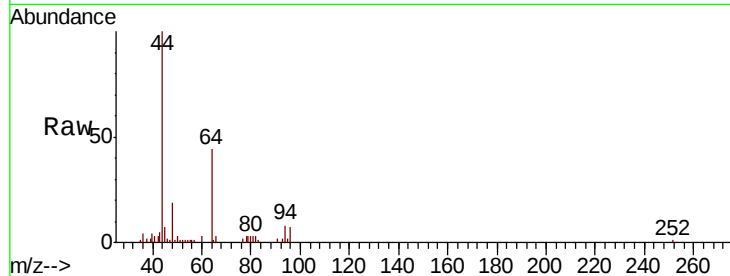
PB112611ZHE#03

Tot Ion: 94 Resp: 1067

Ion Ratio Lower Upper

94 100

96 87.9 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

400

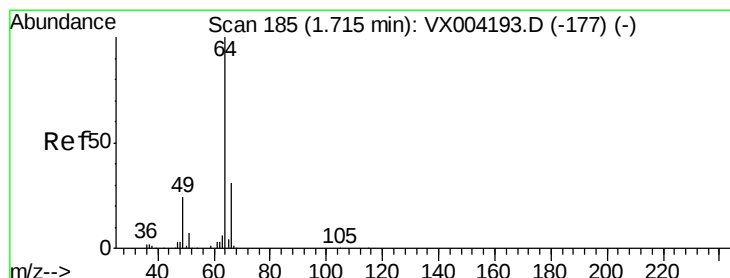
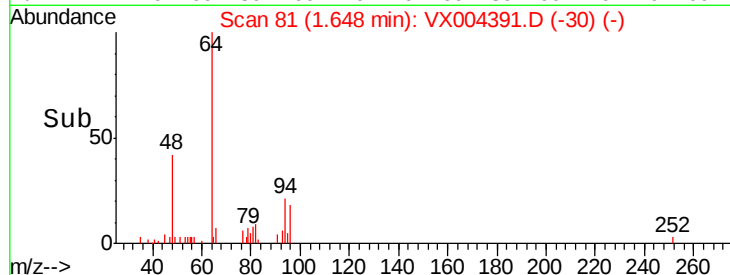
300

200

100

0

Time-->



#6

Chloroethane

Concen: 1.04 ug/l

RT: 1.57 min Scan# 69

Delta R.T. -0.14 min

Lab File: VX004391.D

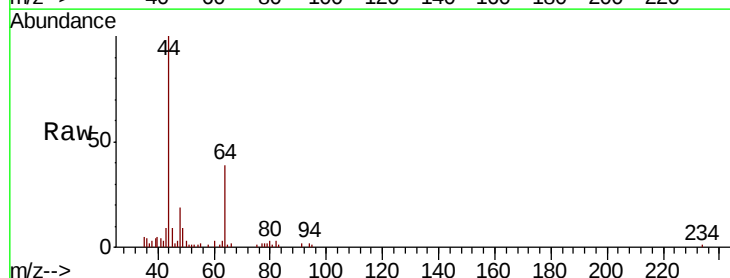
Acq: 06 Sep 2018 17:59

Tgt Ion: 64 Resp: 224

Ion Ratio Lower Upper

64 100

66 0.0 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.57

2500

2000

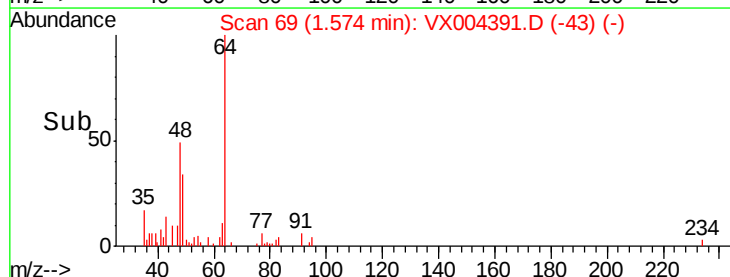
1500

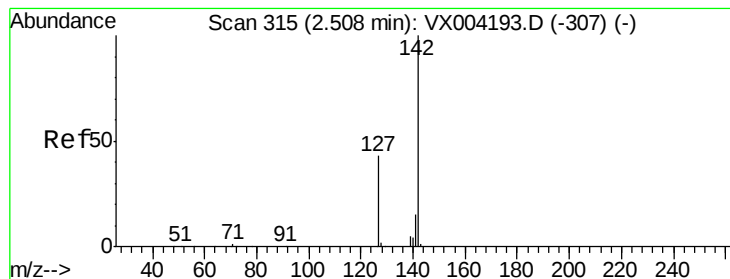
1000

500

0

Time-->





#10

Methyl Iodide

Concen: 4.39 ug/l

RT: 2.51 min Scan# 222

Delta R.T. 0.00 min

Lab File: VX004391.D

Acq: 06 Sep 2018 17:59

Instrument :

MSVOA_X

ClientSampleId :

PB112611ZHE#03

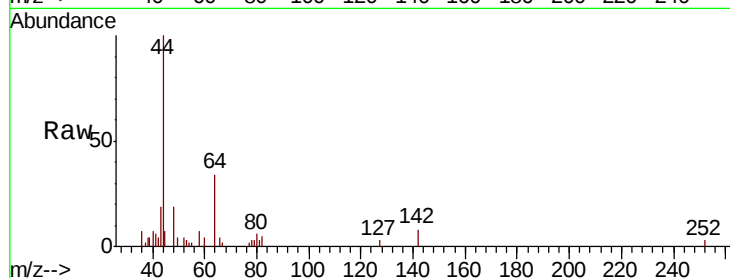
Tot Ion:142 Resp: 516

Ion Ratio Lower Upper

142 100

127 37.8 33.8 50.6

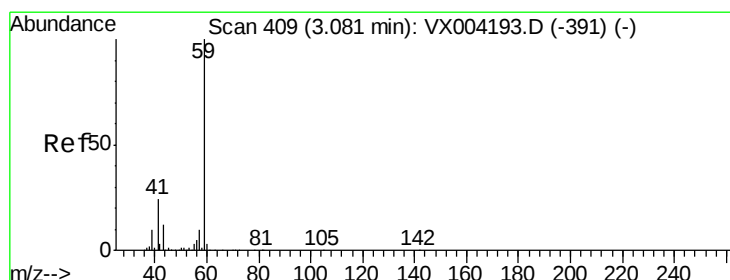
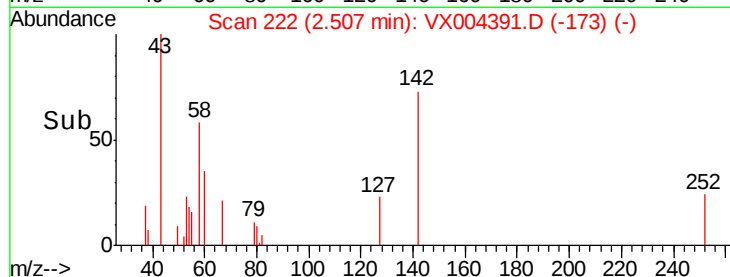
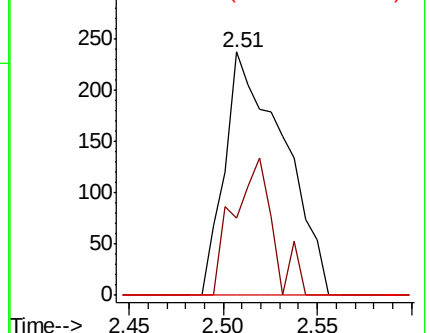
141 0.0 11.4 17.0#



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



#11

Tert butyl alcohol

Concen: 1.30 ug/l

RT: 3.07 min Scan# 314

Delta R.T. -0.01 min

Lab File: VX004391.D

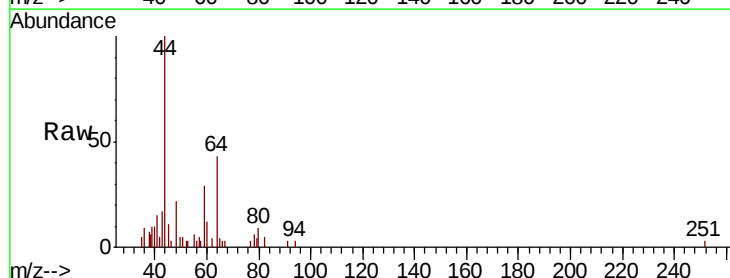
Acq: 06 Sep 2018 17:59

Tgt Ion: 59 Resp: 1072

Ion Ratio Lower Upper

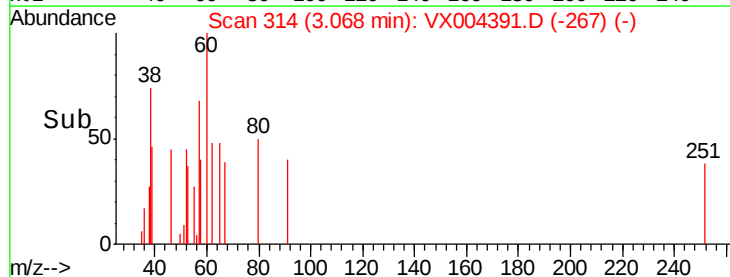
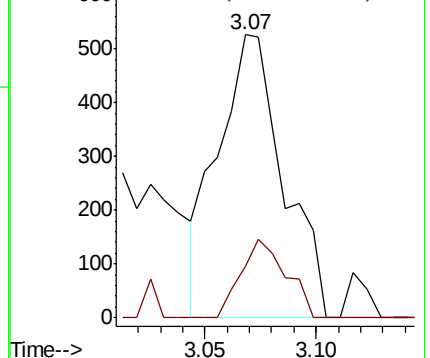
59 100

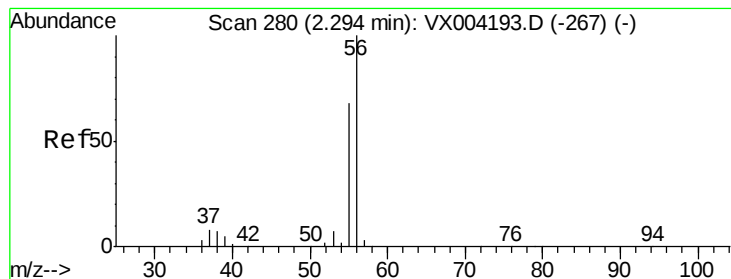
57 19.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 2.04 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX004391.D

Acq: 06 Sep 2018 17:59

Instrument :

MSVOA_X

ClientSampleId :

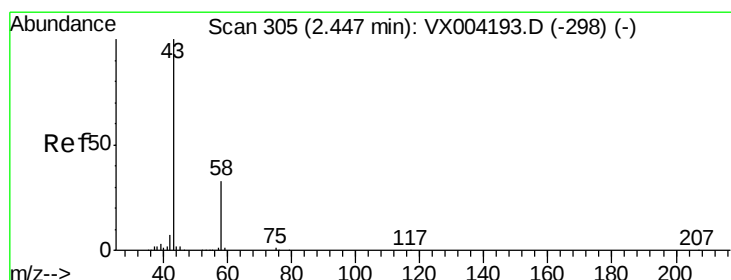
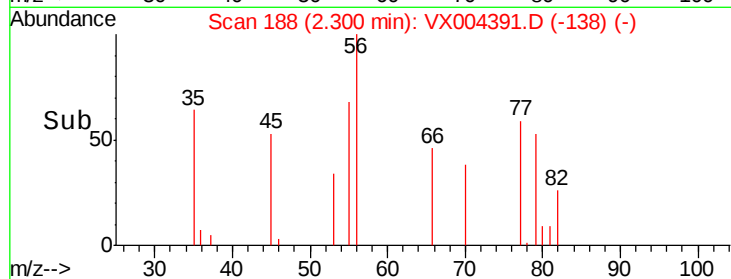
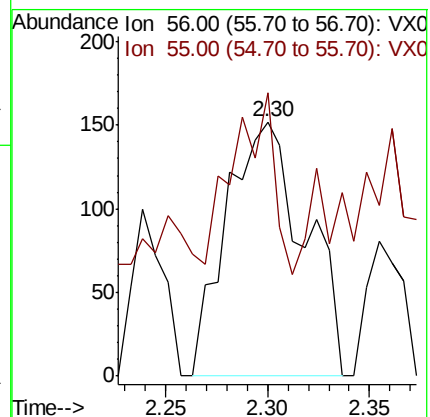
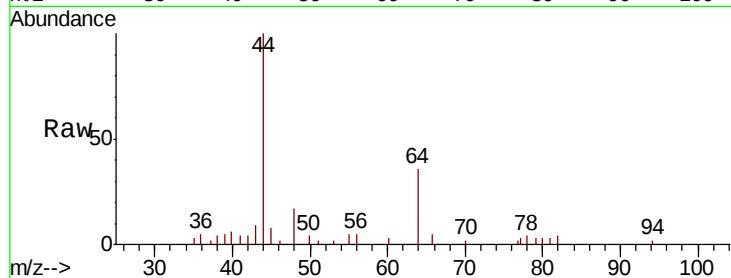
PB112611ZHE#03

Tot Ion: 56 Resp: 405

Ion Ratio Lower Upper

56 100

55 75.8 54.7 82.1



#16

Acetone

Concen: 33.73 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX004391.D

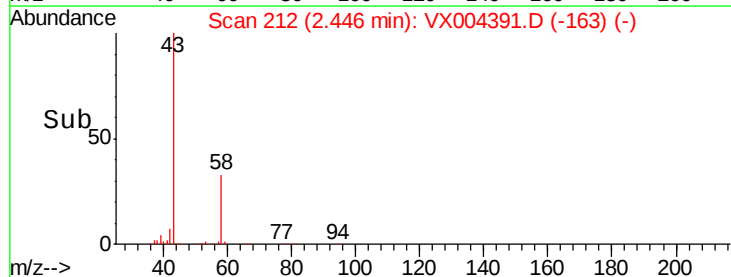
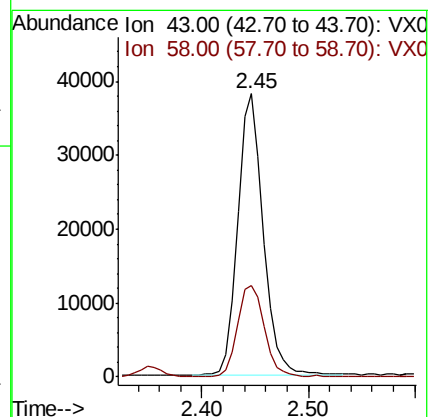
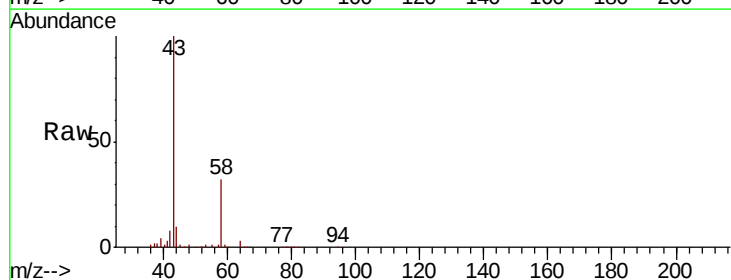
Acq: 06 Sep 2018 17:59

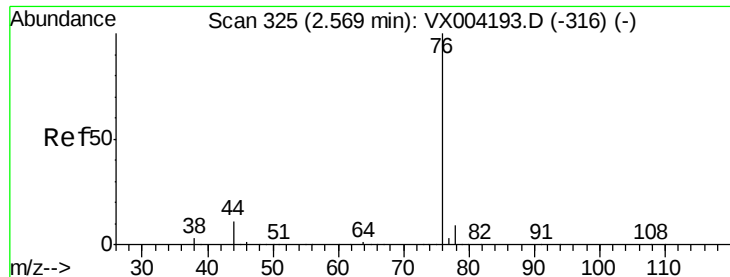
Tgt Ion: 43 Resp: 64210

Ion Ratio Lower Upper

43 100

58 32.6 26.2 39.4





#17

Carbon Disulfide

Concen: 0.89 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX004391.D

Acq: 06 Sep 2018 17:59

Instrument :

MSVOA_X

ClientSampleId :

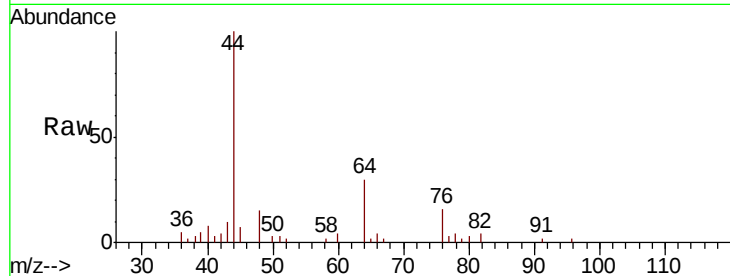
PB112611ZHE#03

Tot Ion: 76 Resp: 840

Ion Ratio Lower Upper

76 100

78 3.6 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

600

500

400

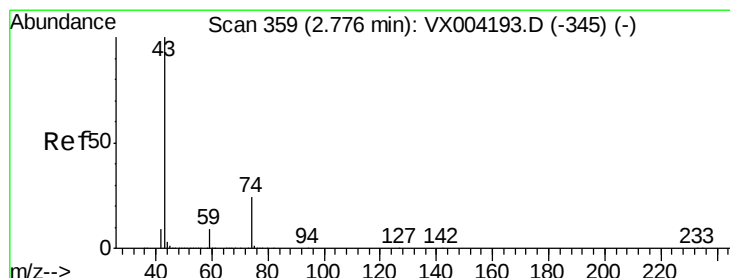
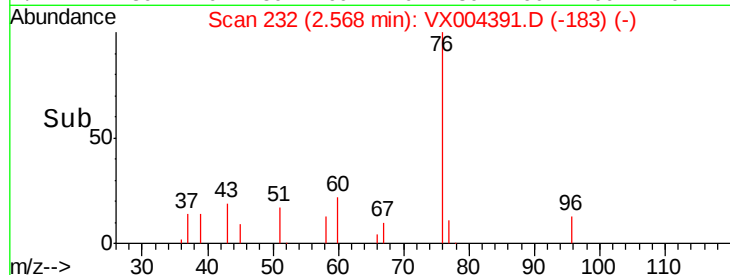
300

200

100

0

Time-->



#18

Methyl Acetate

Concen: 2.13 ug/l

RT: 2.78 min Scan# 266

Delta R.T. -0.00 min

Lab File: VX004391.D

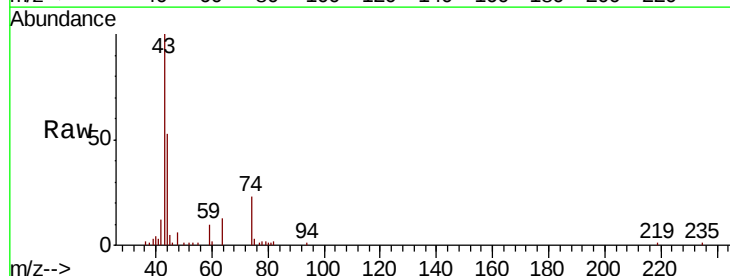
Acq: 06 Sep 2018 17:59

Tgt Ion: 43 Resp: 12220

Ion Ratio Lower Upper

43 100

74 24.9 19.4 29.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.78

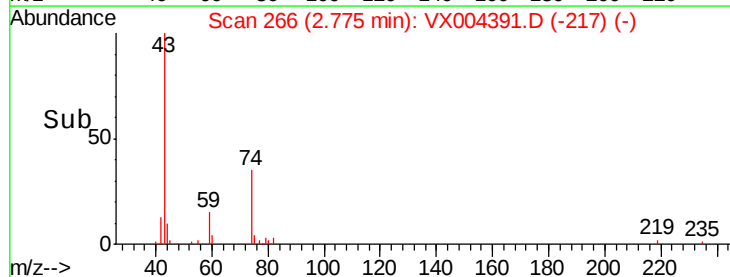
6000

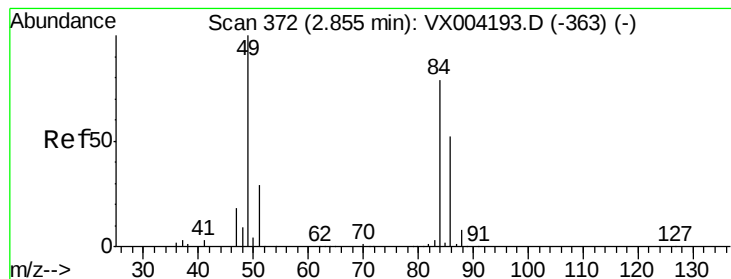
4000

2000

0

Time-->





#20

Methvlene Chloride

Concen: 19.26 ug/l

RT: 2.85 min Scan# 279

Delta R.T. -0.00 min

Lab File: VX004391.D

Acq: 06 Sep 2018 17:59

Instrument :

MSVOA_X

ClientSampleId :

PB112611ZHE#03

Tot Ion: 84 Resp: 71642

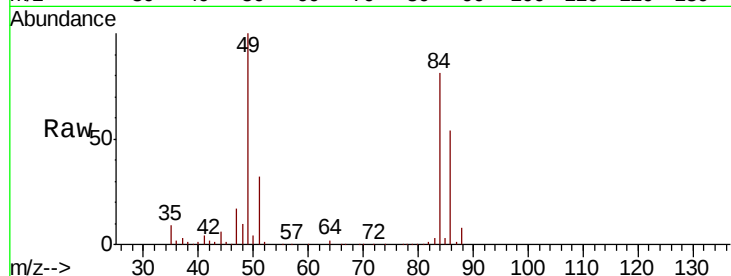
Ion Ratio Lower Upper

84 100

49 122.7 101.2 151.8

51 38.6 29.5 44.3

86 66.0 52.3 78.5

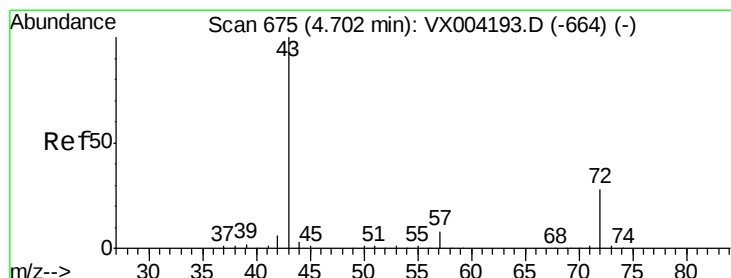
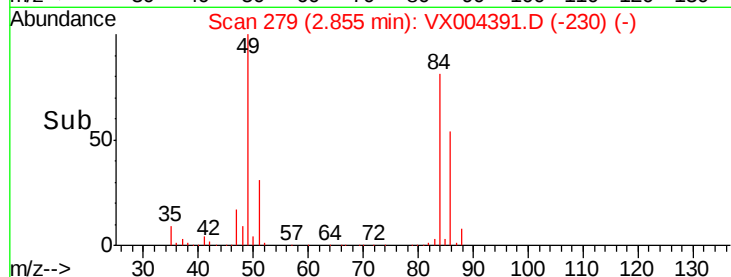
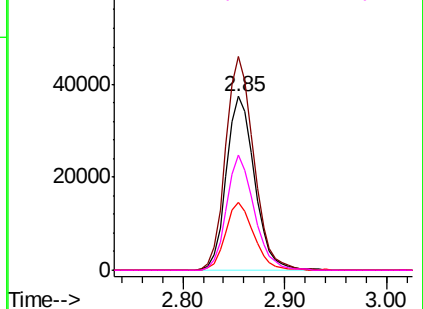


Abundance Ion 83.90 (83.60 to 84.60): VX0

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: Below Cal

RT: 4.71 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX004391.D

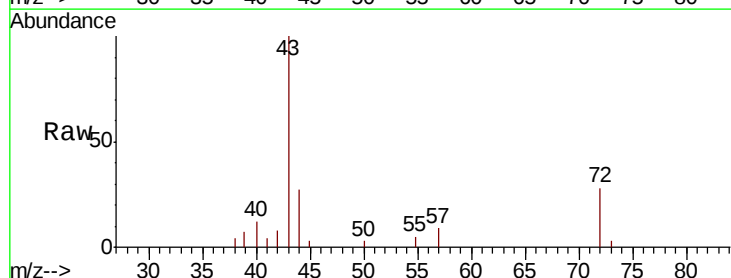
Acq: 06 Sep 2018 17:59

Tgt Ion: 43 Resp: 5576

Ion Ratio Lower Upper

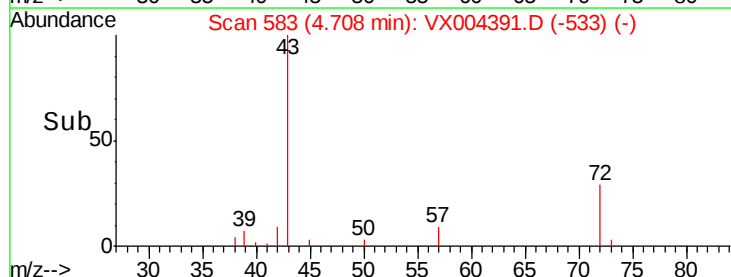
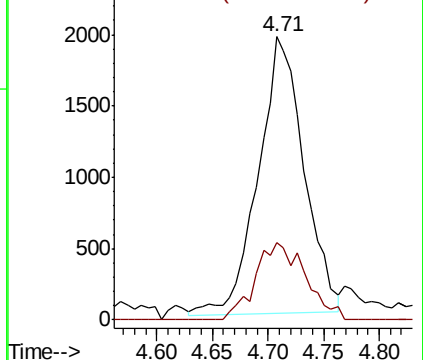
43 100

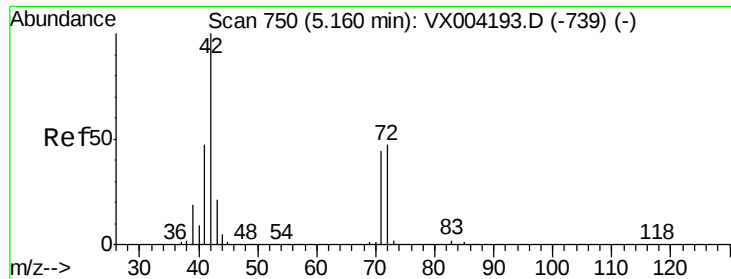
72 28.3 22.0 33.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#29

Tetrahydrofuran

Concen: 1.46 ug/l

RT: 5.17 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX004391.D

Acq: 06 Sep 2018 17:59

Instrument :

MSVOA_X

ClientSampleId :

PB112611ZHE#03

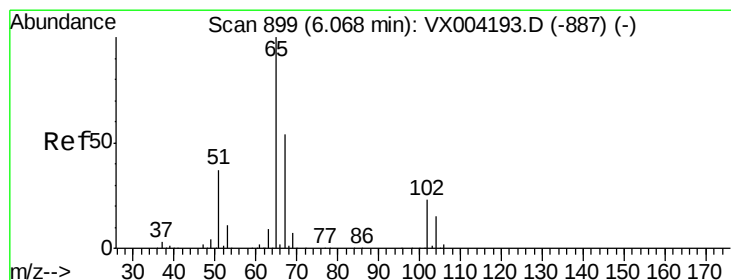
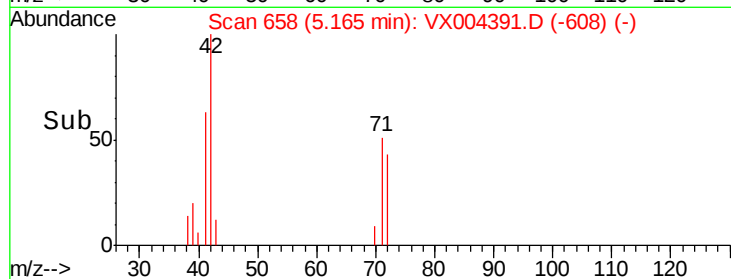
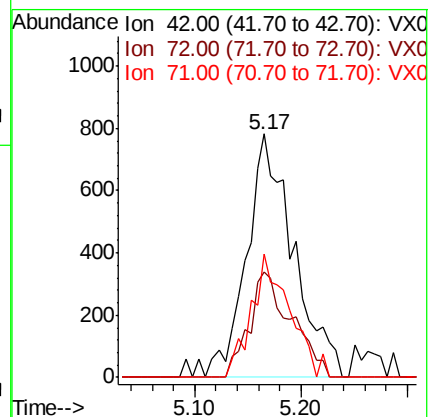
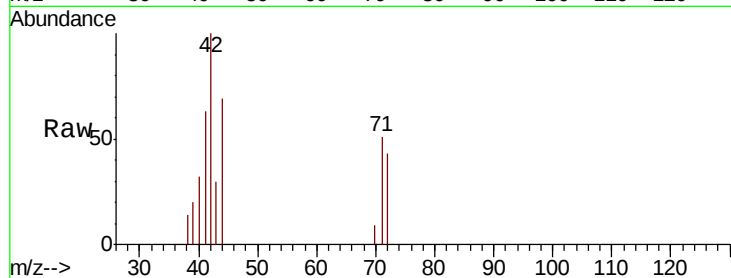
Tot Ion: 42 Resp: 2421

Ion Ratio Lower Upper

42 100

72 38.9 37.4 56.0

71 41.3 34.5 51.7



#33

1,2-Dichloroethane-d4

Concen: 53.48 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX004391.D

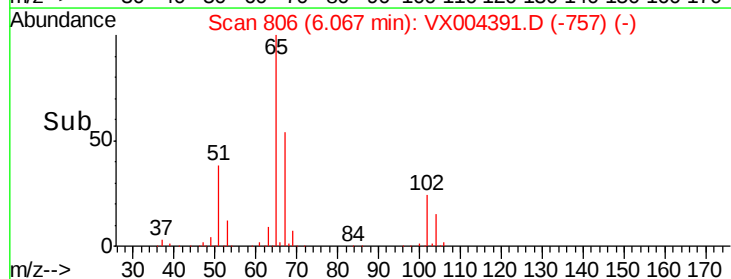
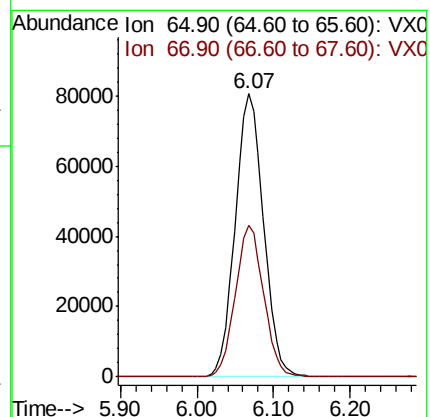
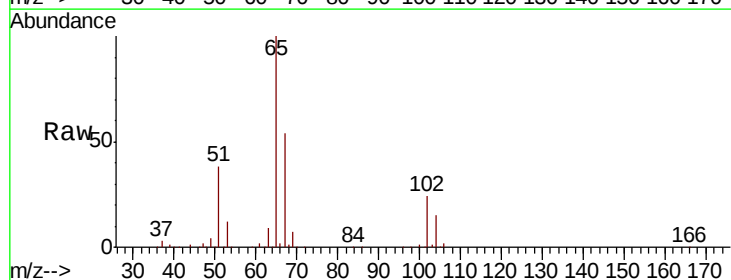
Acq: 06 Sep 2018 17:59

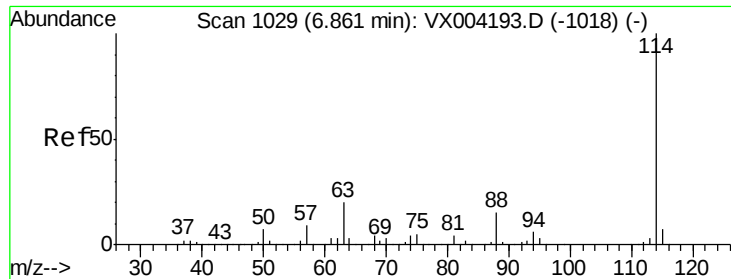
Tgt Ion: 65 Resp: 206623

Ion Ratio Lower Upper

65 100

67 53.4 0.0 106.8

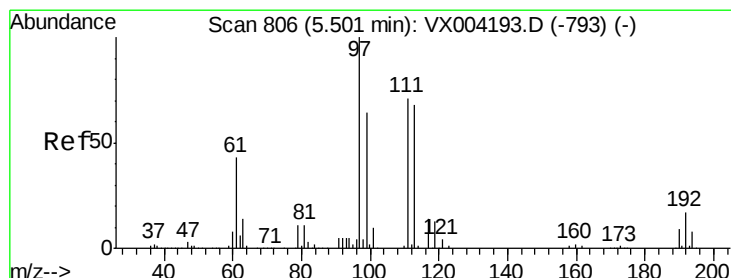
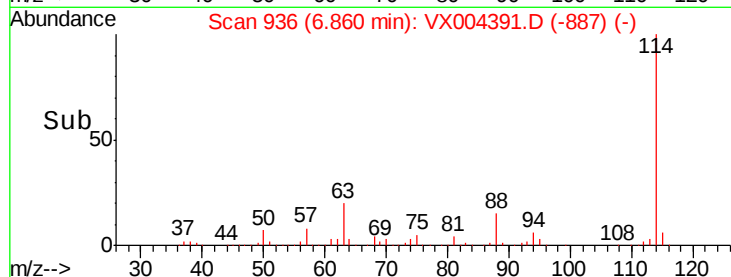
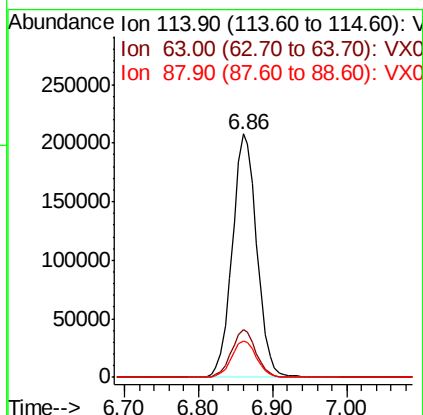
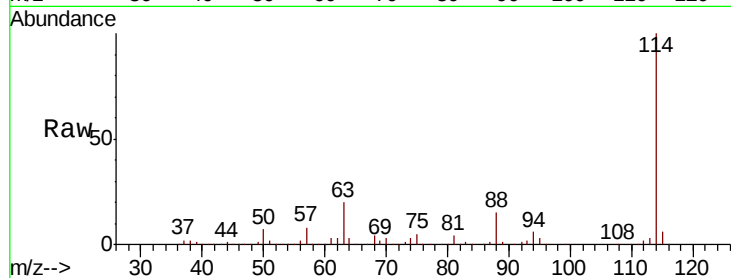




#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.86 min Scan# 936
Delta R.T. -0.00 min
Lab File: VX004391.D
Acq: 06 Sep 2018 17:59

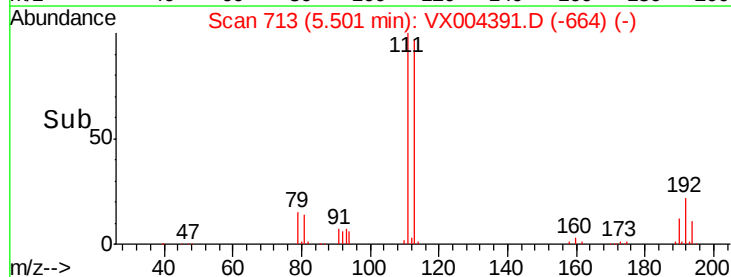
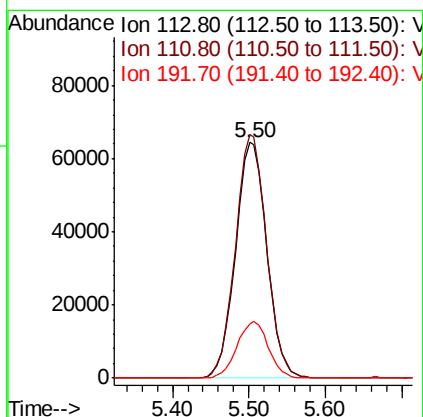
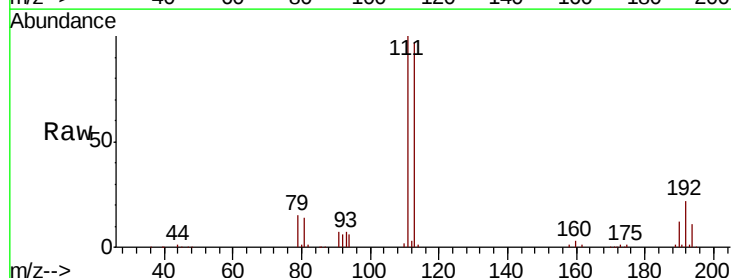
Instrument :
MSVOA_X
ClientSampleId :
PB112611ZHE#03

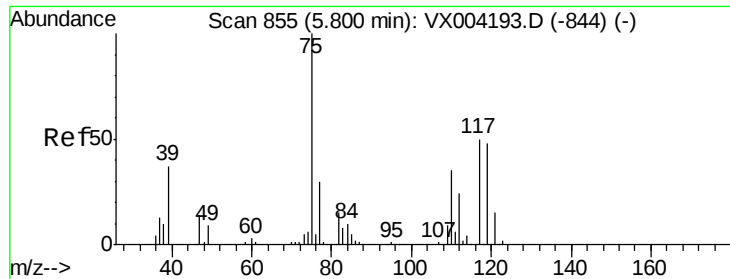
Tot Ion:114 Resp: 480461
Ion Ratio Lower Upper
114 100
63 19.5 0.0 39.0
88 15.0 0.0 30.4



#35
Dibromofluoromethane
Concen: 51.16 ug/l
RT: 5.50 min Scan# 713
Delta R.T. -0.00 min
Lab File: VX004391.D
Acq: 06 Sep 2018 17:59

Tgt Ion:113 Resp: 182847
Ion Ratio Lower Upper
113 100
111 102.7 82.4 123.6
192 24.1 19.4 29.2





#36

1,1-Dichloropropene

Concen: 3.54 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX004391.D

Acq: 06 Sep 2018 17:59

Instrument :

MSVOA_X

ClientSampleId :

PB112611ZHE#03

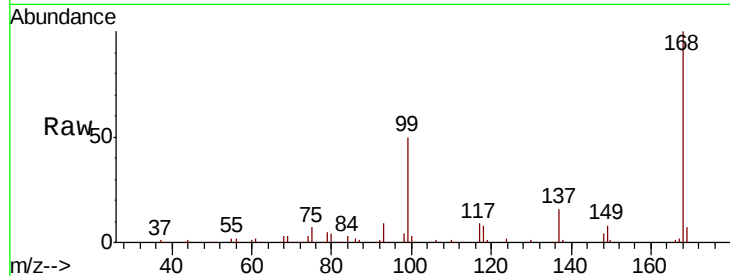
Tot Ion: 75 Resp: 19096

Ion Ratio Lower Upper

75 100

110 8.9 18.0 54.0#

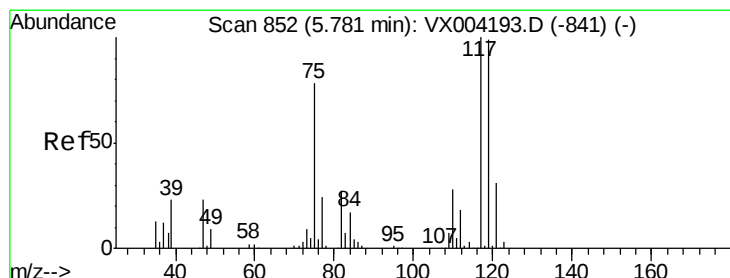
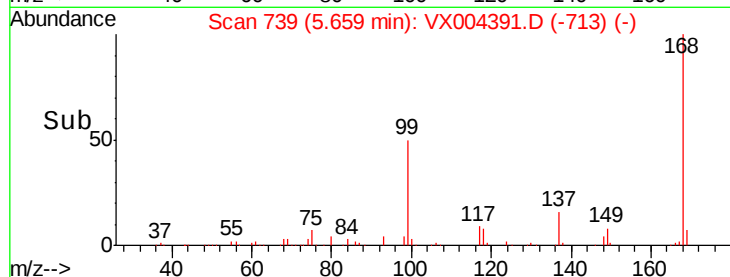
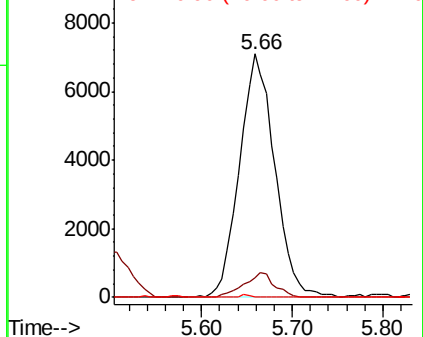
77 0.3 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 5.04 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX004391.D

Acq: 06 Sep 2018 17:59

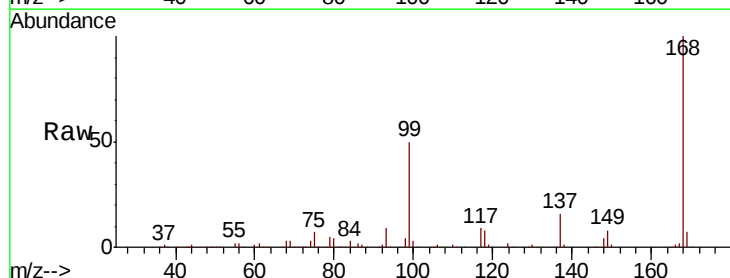
Tgt Ion:117 Resp: 25631

Ion Ratio Lower Upper

117 100

119 6.4 78.8 118.2#

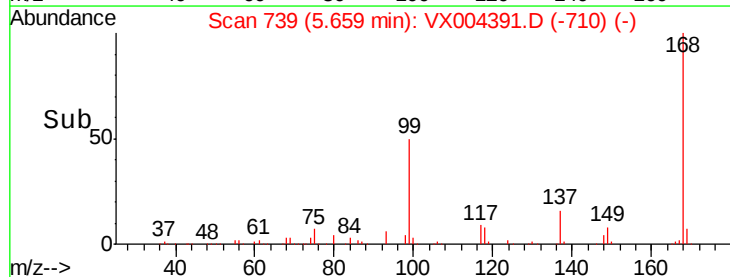
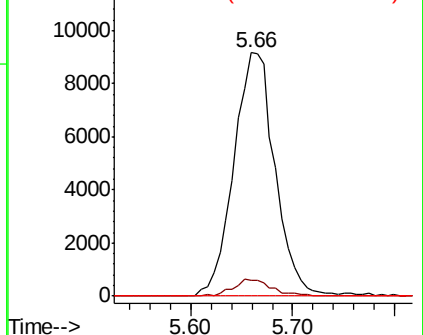
121 0.0 24.9 37.3#

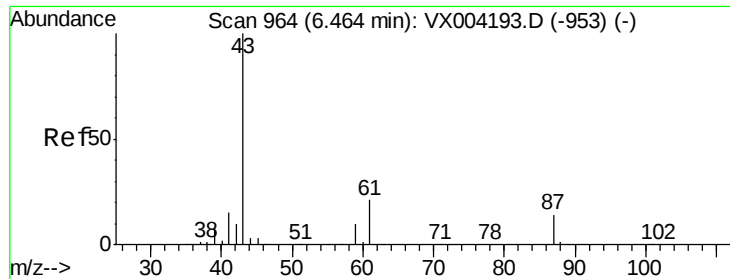


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



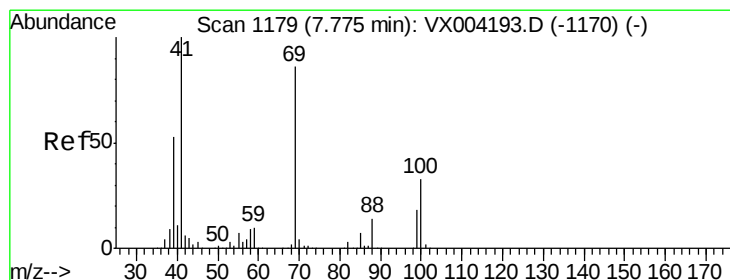
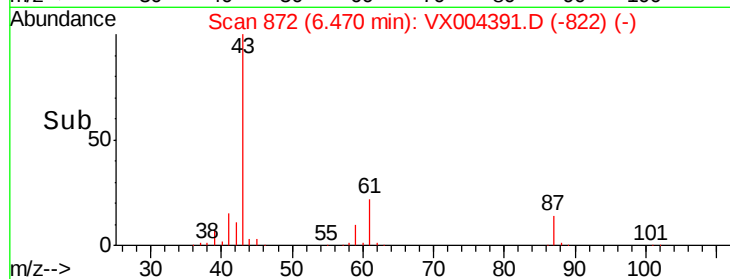
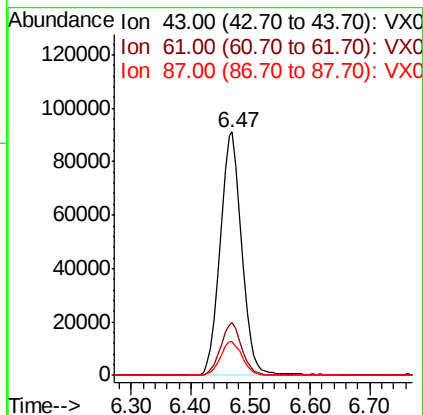
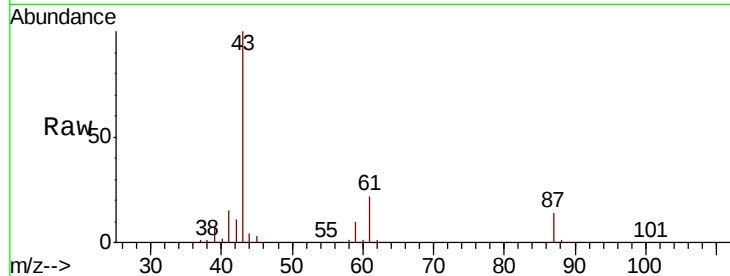


#43

Isopropyl Acetate
 Concen: 28.20 ug/l
 RT: 6.47 min Scan# 872
 Delta R.T. 0.01 min
 Lab File: VX004391.D
 Acq: 06 Sep 2018 17:59

Instrument :
 MSVOA_X
 ClientSampleId :
 PB112611ZHE#03

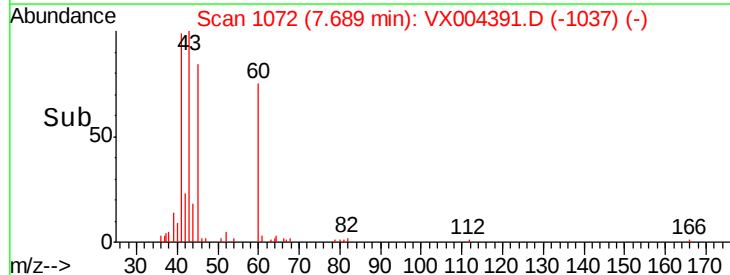
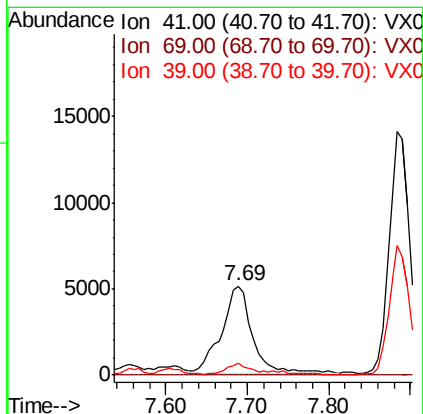
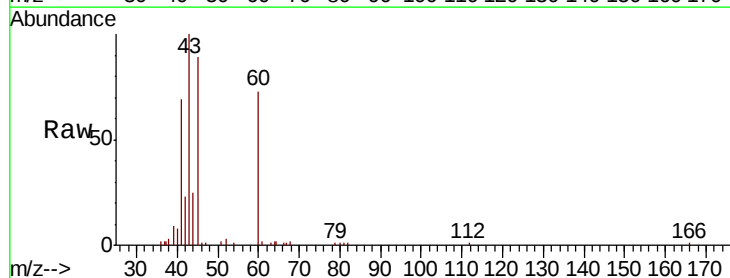
Tot Ion:	43	Resp:	230203
Ion	Ratio	Lower	Upper
43	100		
61	21.1	17.0	25.4
87	14.1	11.4	17.2

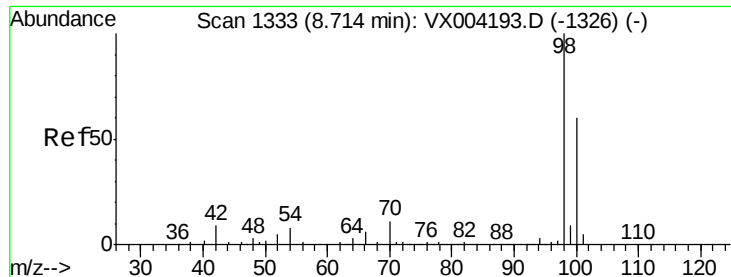


#48

Methyl methacrylate
 Concen: 2.97 ug/l
 RT: 7.69 min Scan# 1072
 Delta R.T. -0.09 min
 Lab File: VX004391.D
 Acq: 06 Sep 2018 17:59

Tgt Ion:	41	Resp:	12971
Ion	Ratio	Lower	Upper
41	100		
69	0.0	70.2	105.4#
39	9.8	42.7	64.1#

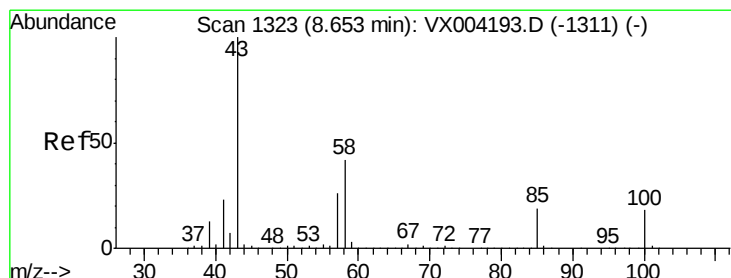
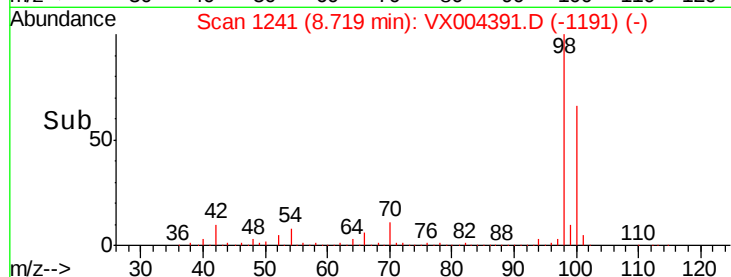
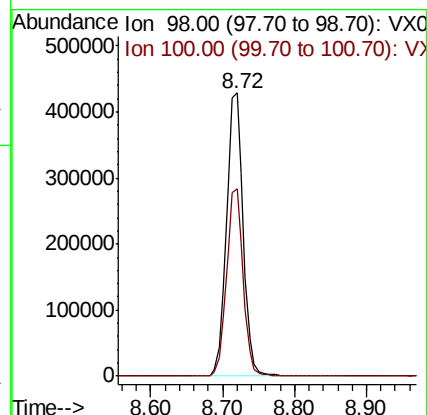
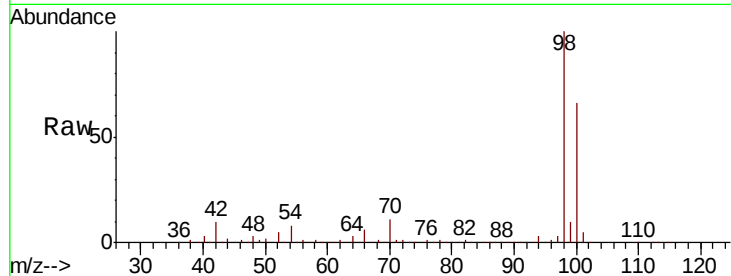




#50
Toluene-d8
Concen: 51.09 ug/l
RT: 8.72 min Scan# 1241
Delta R.T. 0.01 min
Lab File: VX004391.D
Acq: 06 Sep 2018 17:59

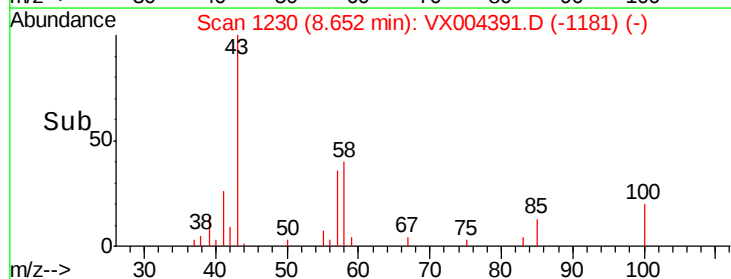
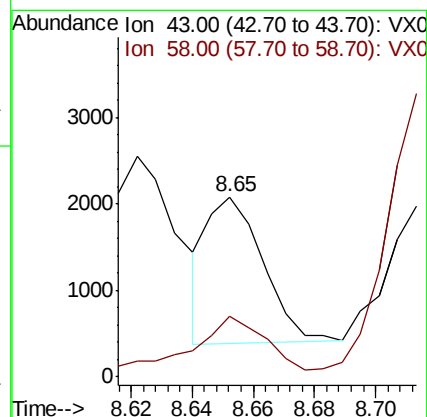
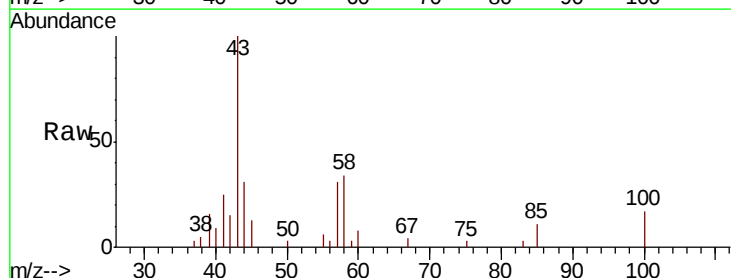
Instrument :
MSVOA_X
ClientSampleId :
PB112611ZHE#03

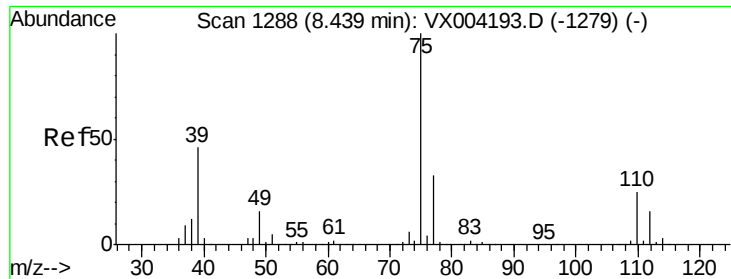
Tot Ion: 98 Resp: 689341
Ion Ratio Lower Upper
98 100
100 65.8 52.9 79.3



#51
4-Methyl-2-Pentanone
Concen: 0.36 ug/l
RT: 8.65 min Scan# 1230
Delta R.T. -0.00 min
Lab File: VX004391.D
Acq: 06 Sep 2018 17:59

Tgt Ion: 43 Resp: 2133
Ion Ratio Lower Upper
43 100
58 64.4 33.1 49.7#





#54

cis-1,3-Dichloropropene

Concen: 0.30 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. 0.18 min

Lab File: VX004391.D

Acq: 06 Sep 2018 17:59

Instrument :

MSVOA_X

ClientSampleId :

PB112611ZHE#03

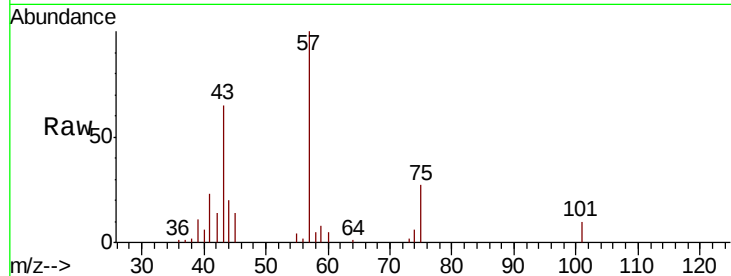
Tot Ion: 75 Resp: 1824

Ion Ratio Lower Upper

75 100

77 0.0 26.2 39.2#

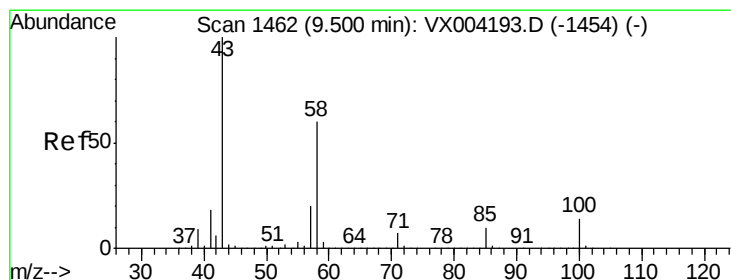
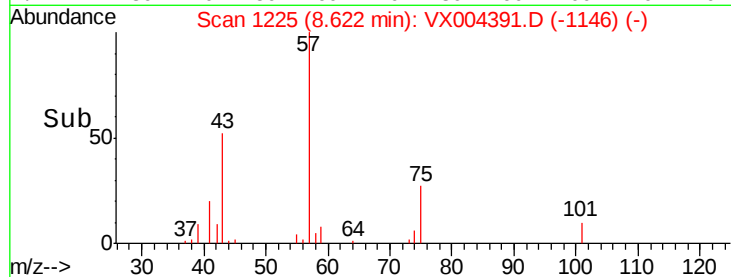
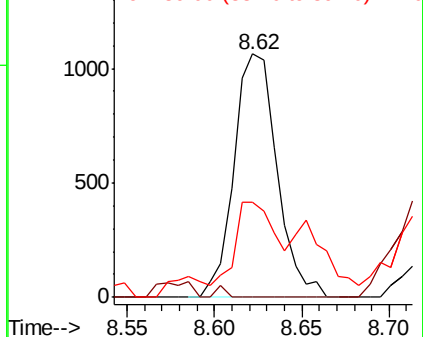
39 30.8 36.4 54.6#



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: 3.54 ug/l

RT: 9.55 min Scan# 1377

Delta R.T. 0.05 min

Lab File: VX004391.D

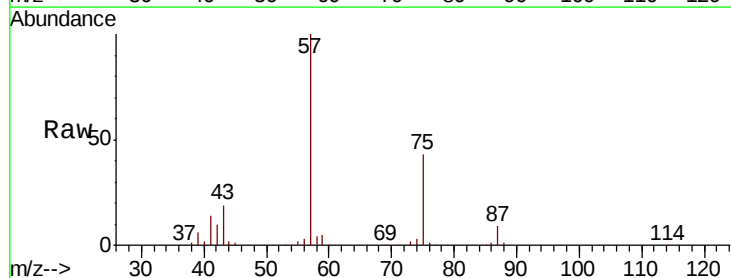
Acq: 06 Sep 2018 17:59

Tgt Ion: 43 Resp: 16030

Ion Ratio Lower Upper

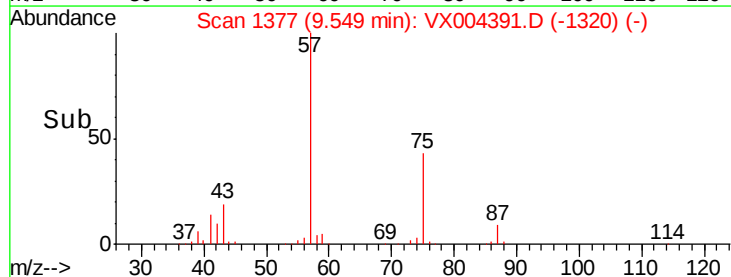
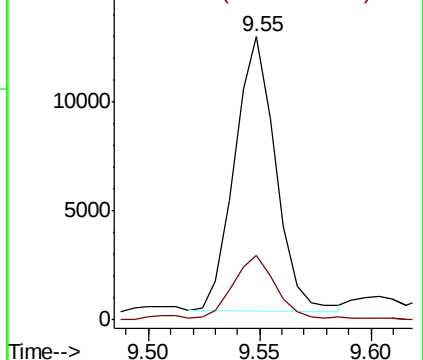
43 100

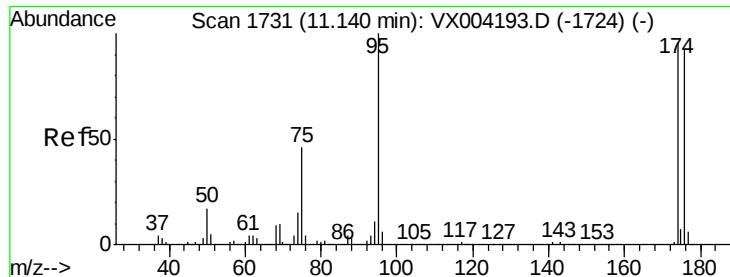
58 25.6 29.0 87.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

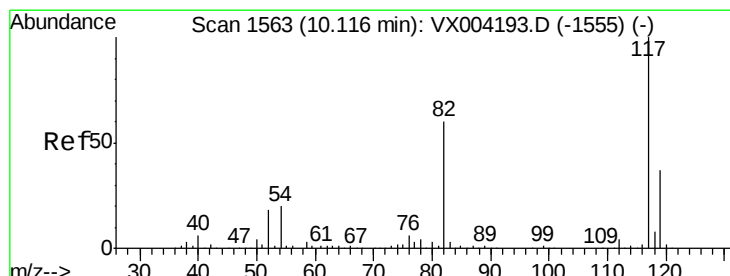
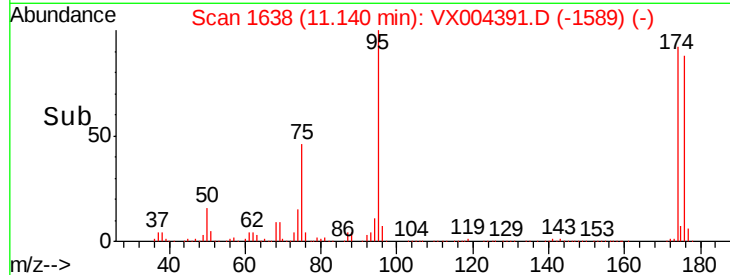
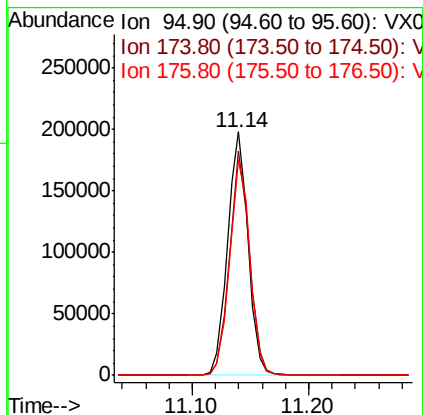
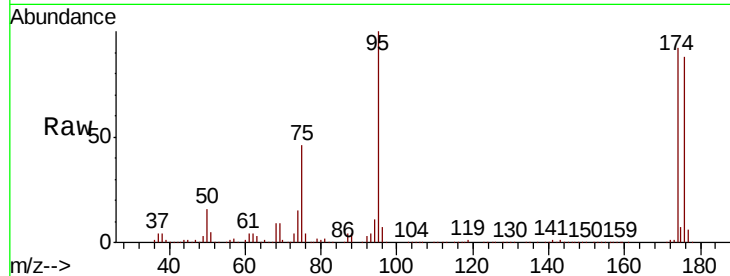




#62
4-Bromofluorobenzene
Concen: 48.08 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX004391.D
Acq: 06 Sep 2018 17:59

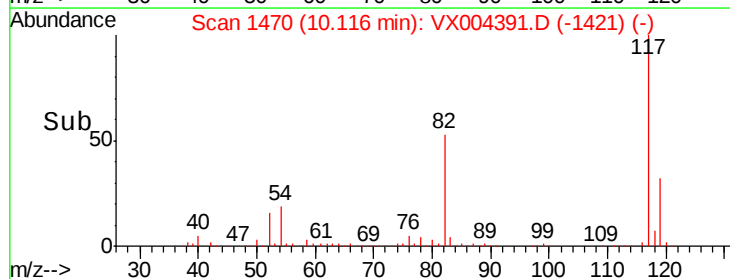
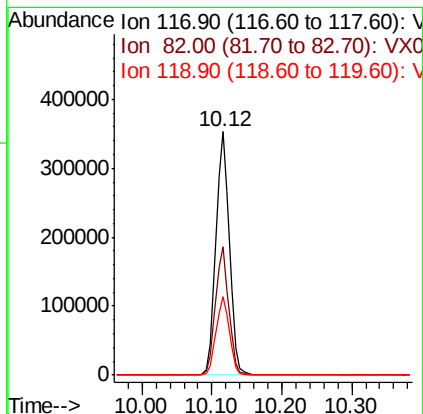
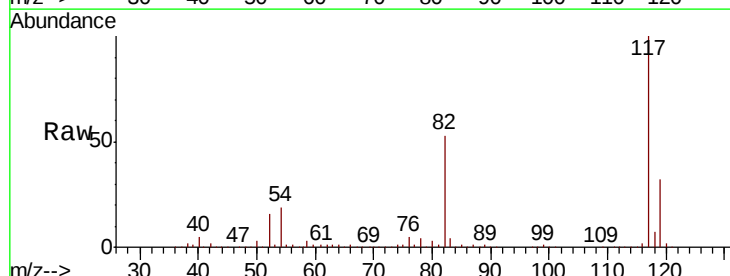
Instrument :
MSVOA_X
ClientSampleId :
PB112611ZHE#03

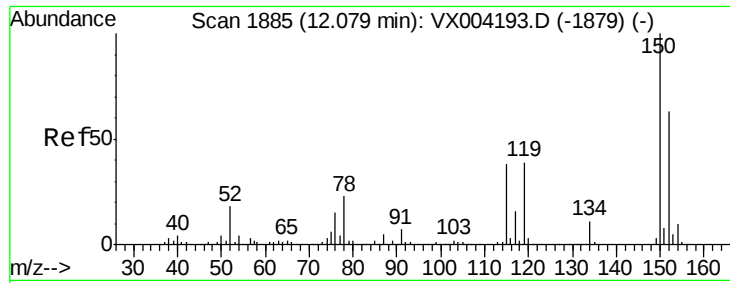
Tot Ion: 95 Resp: 242046
Ion Ratio Lower Upper
95 100
174 89.8 0.0 185.2
176 87.9 0.0 178.6



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX004391.D
Acq: 06 Sep 2018 17:59

Tgt Ion: 117 Resp: 473783
Ion Ratio Lower Upper
117 100
82 52.8 47.8 71.6
119 32.4 29.3 43.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX004391.D

Acq: 06 Sep 2018 17:59

Instrument :

MSVOA_X

ClientSampleId :

PB112611ZHE#03

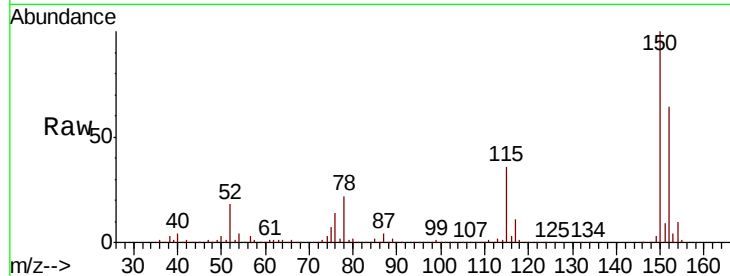
Tot Ion:152 Resp: 250032

Ion Ratio Lower Upper

152 100

115 55.1 39.0 117.0

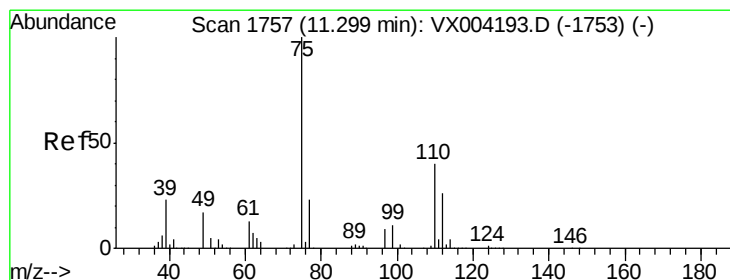
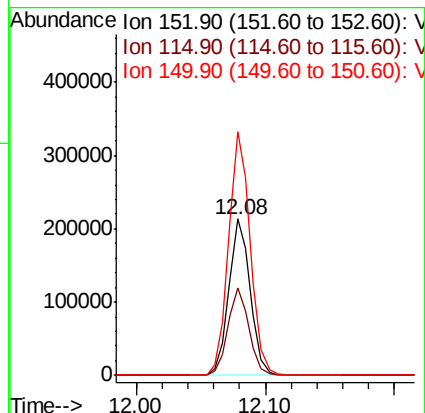
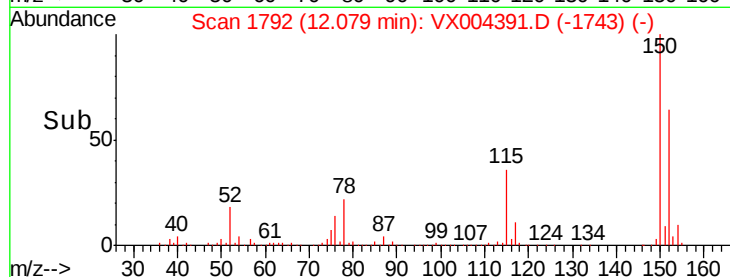
150 157.2 0.0 351.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 22.12 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004391.D

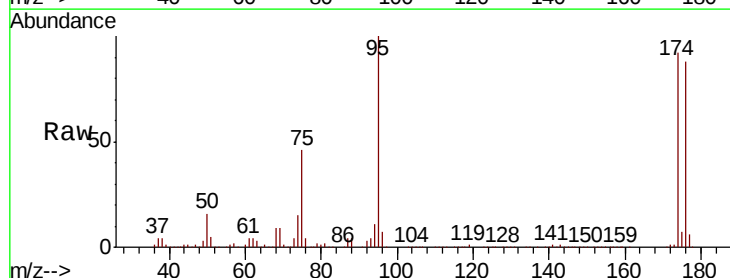
Acq: 06 Sep 2018 17:59

Tgt Ion: 75 Resp: 112463

Ion Ratio Lower Upper

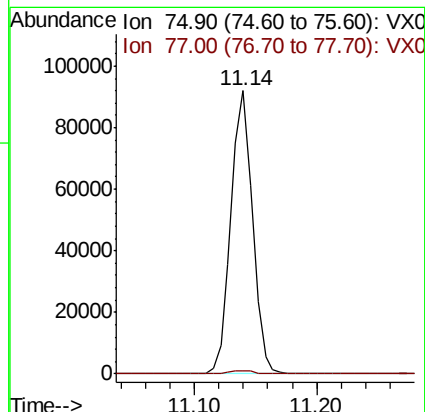
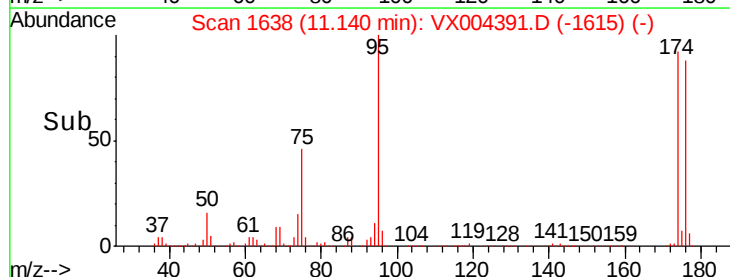
75 100

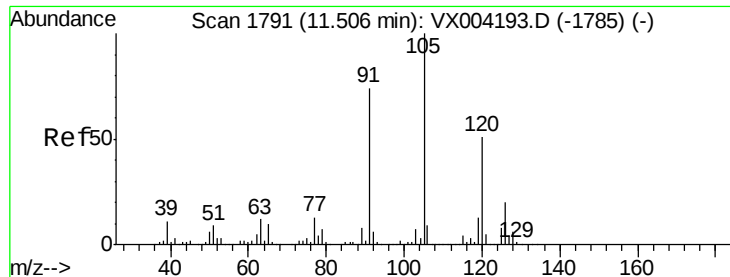
77 1.3 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#80

1,3,5-Trimethylbenzene

Concen: 0.21 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VX004391.D

Acq: 06 Sep 2018 17:59

Instrument :

MSVOA_X

ClientSampleId :

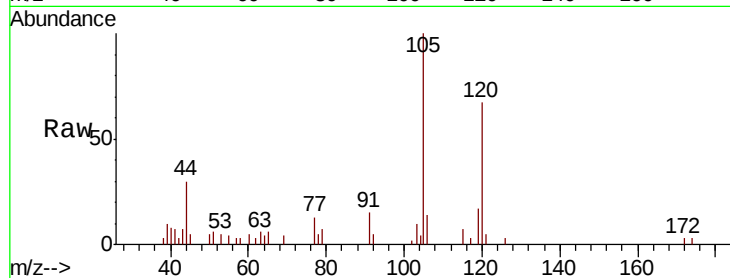
PB112611ZHE#03

Tot Ion:105 Resp: 2902

Ion Ratio Lower Upper

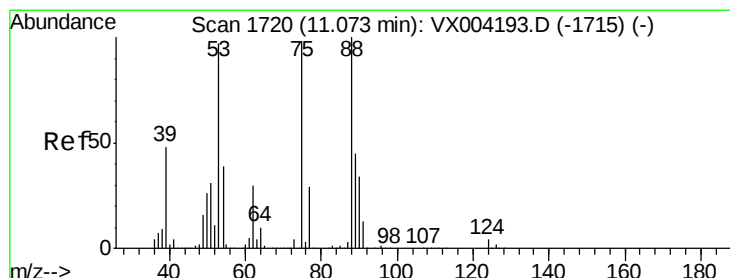
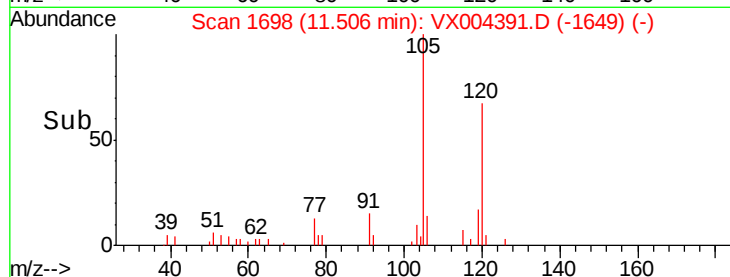
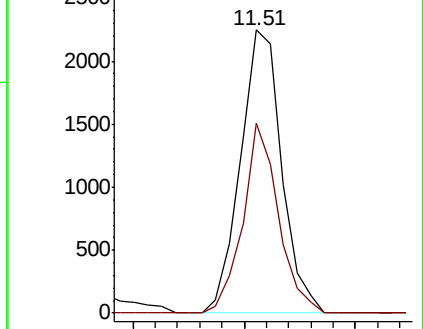
105 100

120 57.7 25.6 76.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 71.76 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX004391.D

Acq: 06 Sep 2018 17:59

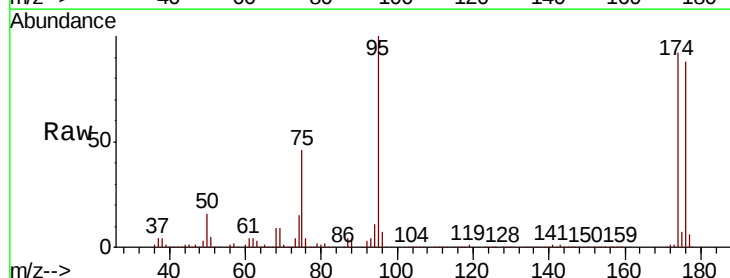
Tgt Ion: 75 Resp: 112463

Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

89 0.0 37.2 55.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

