

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091018\
 Data File : VX004454.D
 Acq On : 10 Sep 2018 17:41
 Operator : JC/MD
 Sample : PB112704ZHE#11
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB112704ZHE#11

Quant Time: Sep 11 01:22:02 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	285126	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	472134	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	431913	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	250147	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	203743	54.82	ug/l	0.00
Spiked Amount			Recovery	=	109.64%	
35) Dibromofluoromethane	5.50	113	181578	51.70	ug/l	0.00
Spiked Amount			Recovery	=	103.40%	
50) Toluene-d8	8.71	98	682551	51.48	ug/l	0.00
Spiked Amount			Recovery	=	102.96%	
62) 4-Bromofluorobenzene	11.14	95	239129	48.34	ug/l	0.00
Spiked Amount			Recovery	=	96.68%	

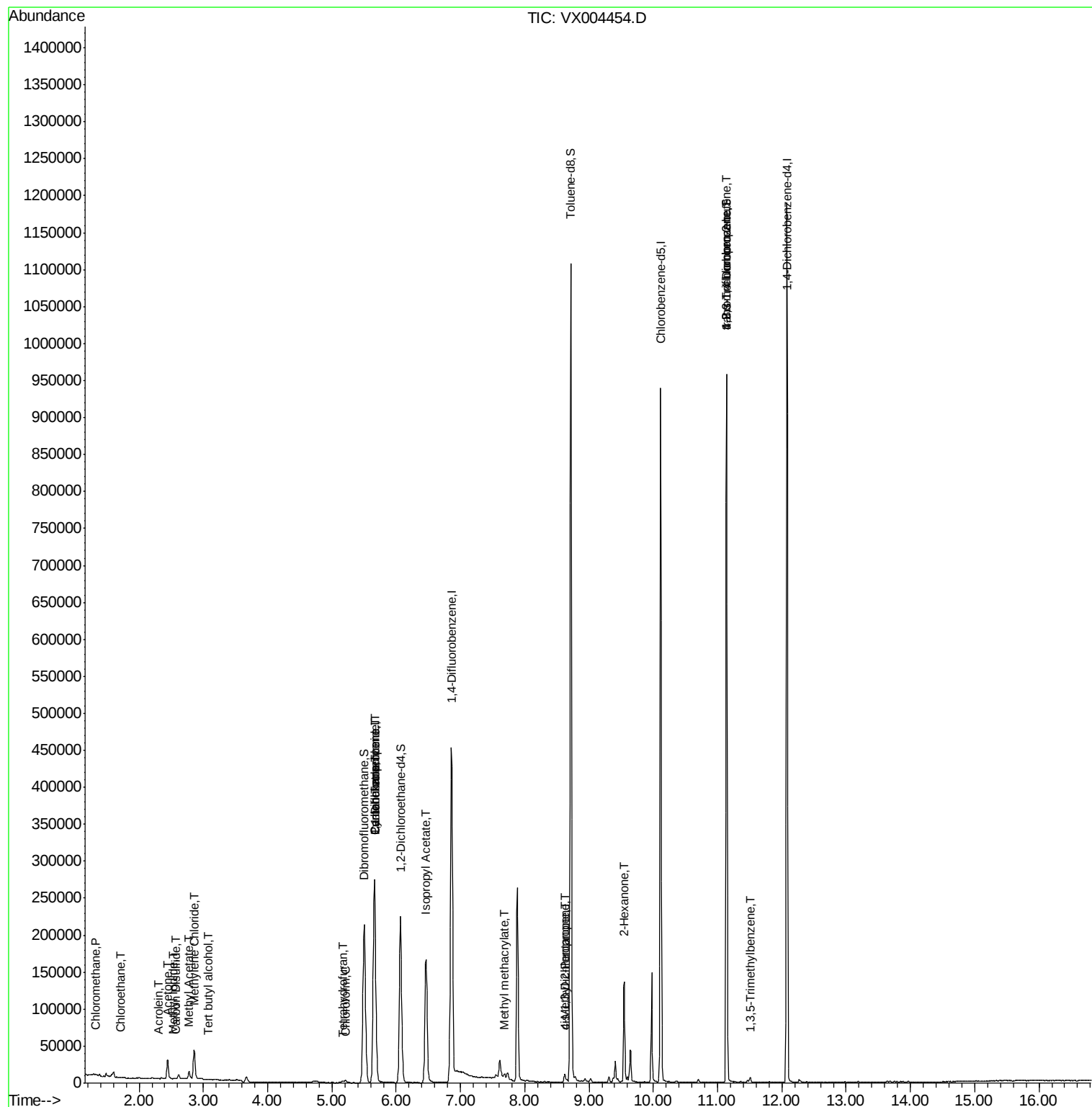
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	620	0.46	ug/l	# 78
5) Bromomethane	1.65	94	325	Below Cal		# 68
6) Chloroethane	1.70	64	71	0.99	ug/l	# 44
10) Methyl Iodide	2.52	142	247	4.33	ug/l	# 41
11) Tert butyl alcohol	3.07	59	444	0.56	ug/l	97
13) Acrolein	2.29	56	191	1.00	ug/l	91
16) Acetone	2.45	43	27763	10.57	ug/l	97
17) Carbon Disulfide	2.56	76	503	0.86	ug/l	# 90
18) Methyl Acetate	2.78	43	12517	2.27	ug/l	97
20) Methylene Chloride	2.85	84	18630	5.21	ug/l	98
25) 2-Butanone	4.70	43	3604	Below Cal		94
29) Tetrahydrofuran	5.16	42	1639	1.03	ug/l	# 79
30) Chloroform	5.21	83	3326	0.55	ug/l	95
31) Cyclohexane	5.67	56	4598	0.88	ug/l	# 1
36) 1,1-Dichloropropene	5.66	75	18482	3.48	ug/l	# 50
38) Carbon Tetrachloride	5.67	117	24278	4.86	ug/l	# 15
43) Isopropyl Acetate	6.46	43	218924	27.29	ug/l	99
48) Methyl methacrylate	7.69	41	9406	2.19	ug/l	# 20
51) 4-Methyl-2-Pentanone	8.62	43	3487	0.60	ug/l	# 34
54) cis-1,3-Dichloropropene	8.62	75	1746	0.30	ug/l	# 75
59) 2-Hexanone	9.55	43	14596	3.28	ug/l	# 57
76) 1,2,3-Trichloropropane	11.14	75	111515	21.92	ug/l	# 37
80) 1,3,5-Trimethylbenzene	11.51	105	3056	0.22	ug/l	94
81) trans-1,4-Dichloro-2-buten	11.14	75	111515	71.12	ug/l	# 10
94) Hexachlorobutadiene	13.79	225	77	Below Cal		# 38

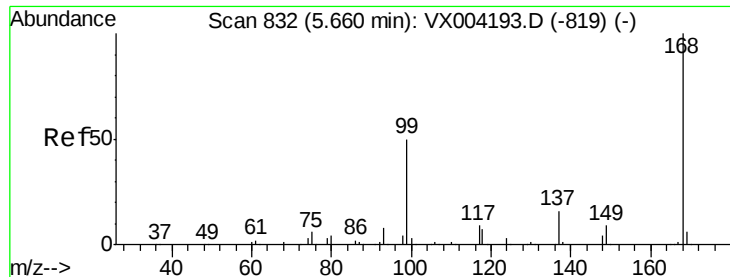
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X082218W.M
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: VX004454.D

Acq: 10 Sep 2018 17:41

Instrument :

MSVOA_X

ClientSampleId :

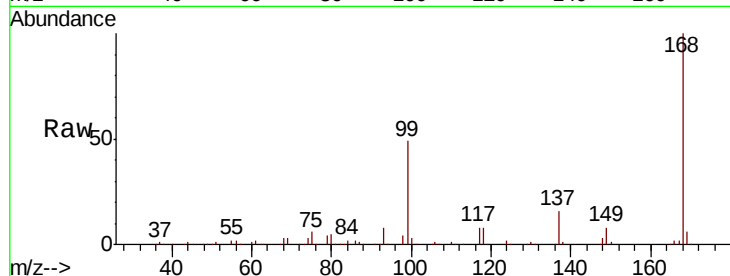
PB112704ZHE#11

Tot Ion:168 Resp: 285126

Ion Ratio Lower Upper

168 100

99 48.5 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

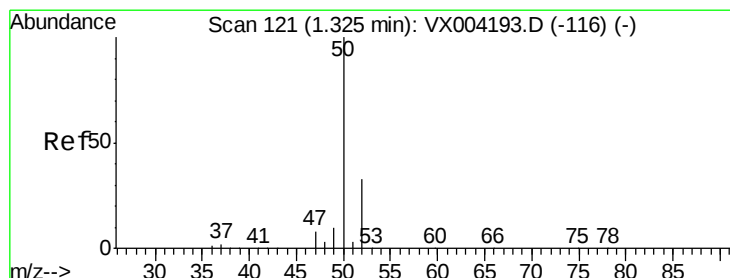
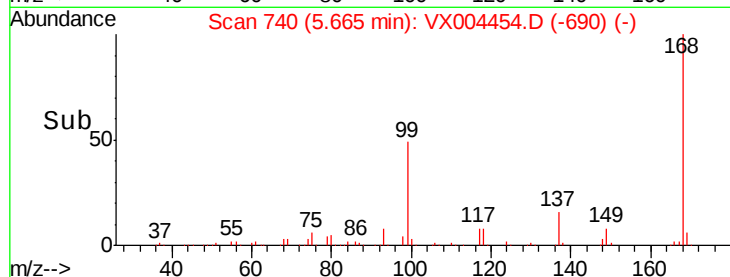
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.46 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX004454.D

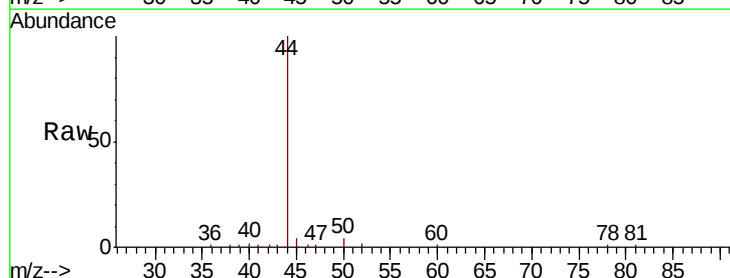
Acq: 10 Sep 2018 17:41

Tgt Ion: 50 Resp: 620

Ion Ratio Lower Upper

50 100

52 45.3 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

400

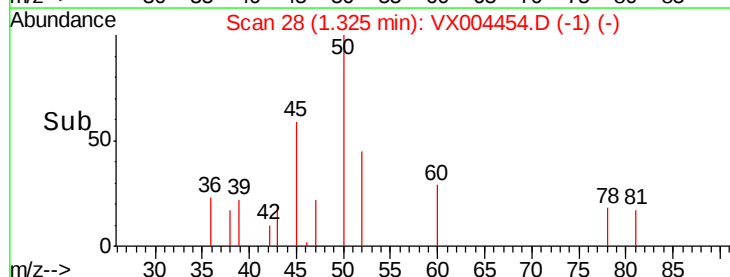
300

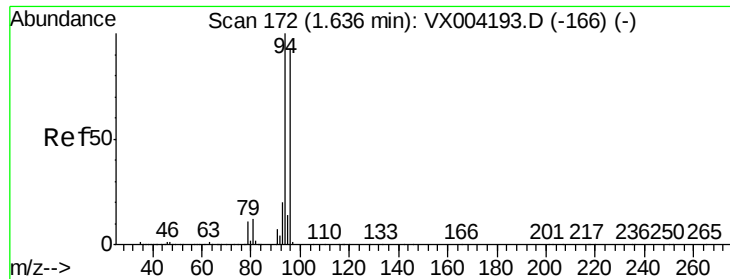
200

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: VX004454.D

Acq: 10 Sep 2018 17:41

Instrument :

MSVOA_X

ClientSampleId :

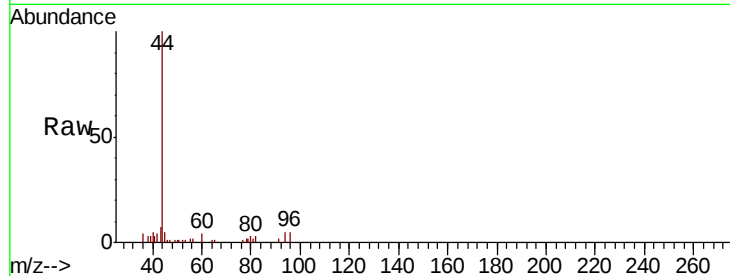
PB112704ZHE#11

Tot Ion: 94 Resp: 325

Ion Ratio Lower Upper

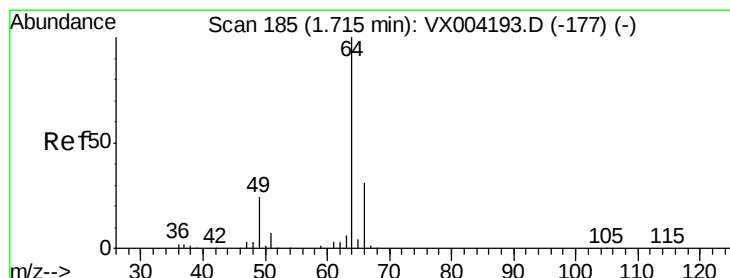
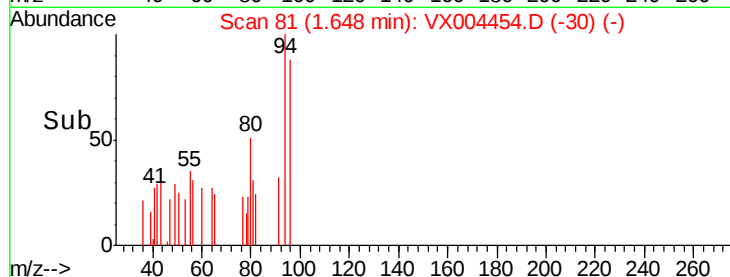
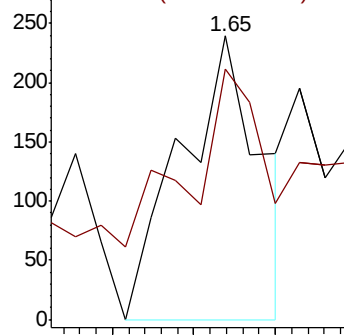
94 100

96 62.8 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 0.99 ug/l

RT: 1.70 min Scan# 90

Delta R.T. -0.01 min

Lab File: VX004454.D

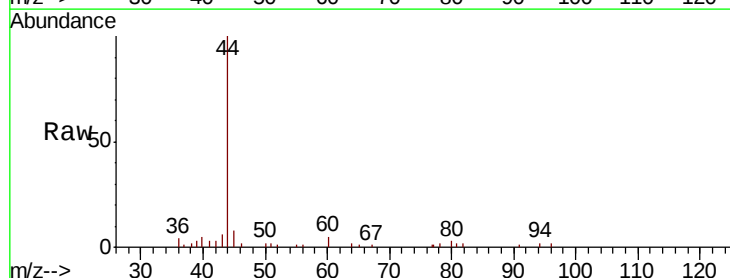
Acq: 10 Sep 2018 17:41

Tgt Ion: 64 Resp: 71

Ion Ratio Lower Upper

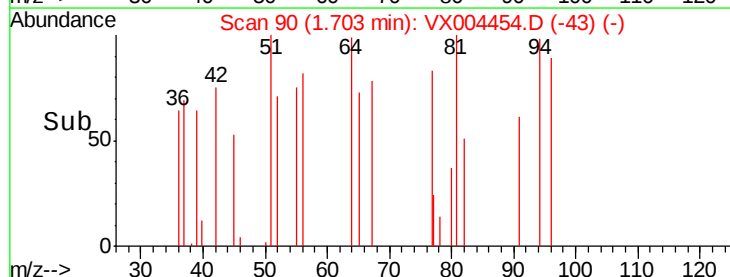
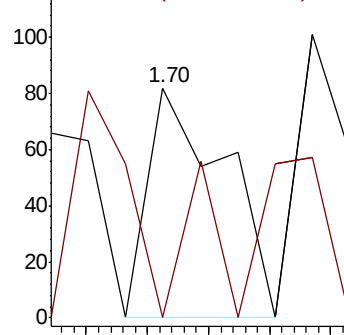
64 100

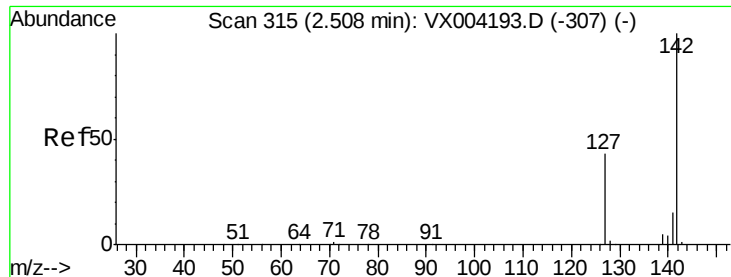
66 0.0 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

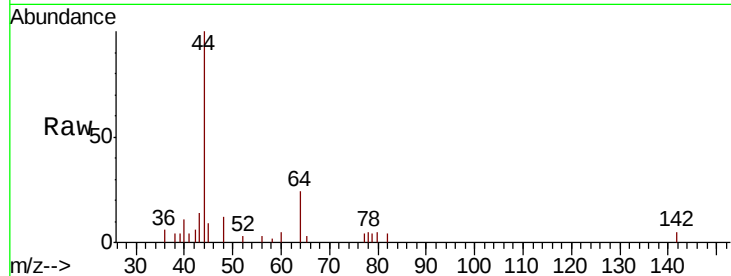




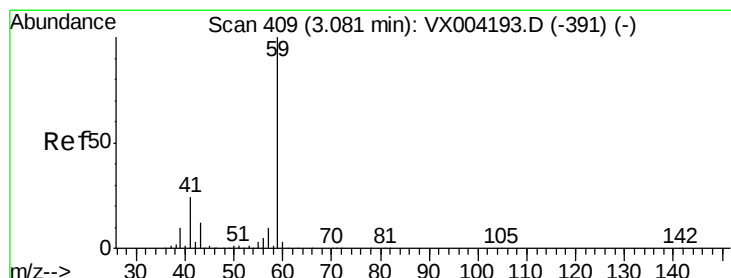
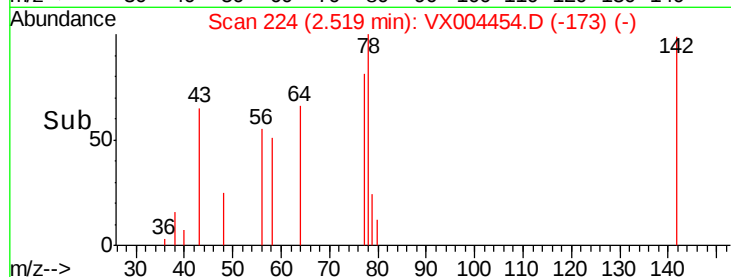
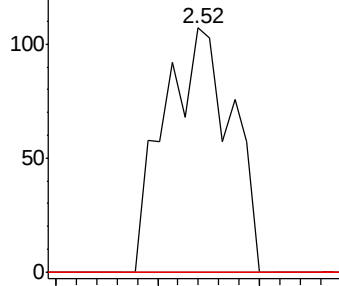
#10
Methvl Iodide
Concen: 4.33 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX004454.D
Acq: 10 Sep 2018 17:41

Instrument :
MSVOA_X
ClientSampleId :
PB112704ZHE#11

Tot Ion:142 Resp: 247
Ion Ratio Lower Upper
142 100
127 0.0 33.8 50.6#
141 0.0 11.4 17.0#

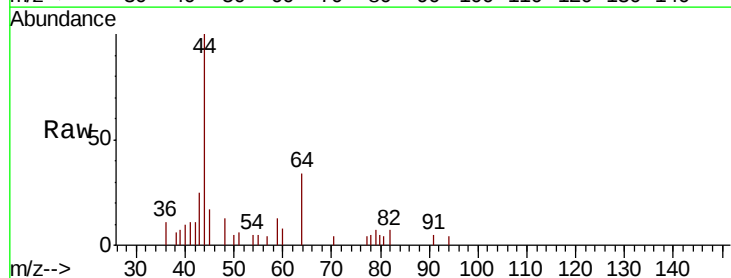


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

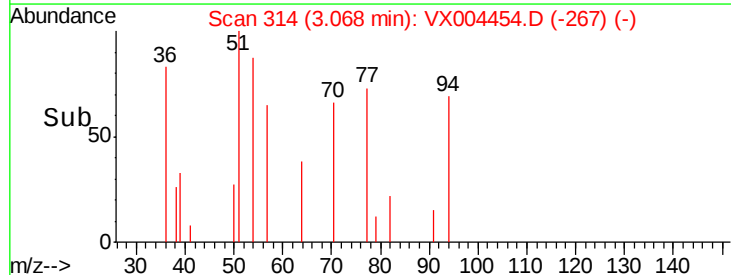
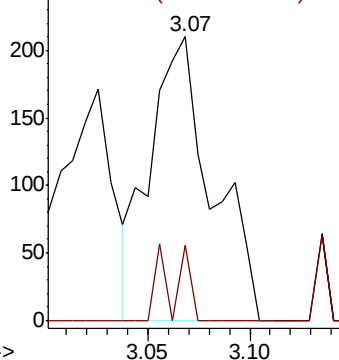


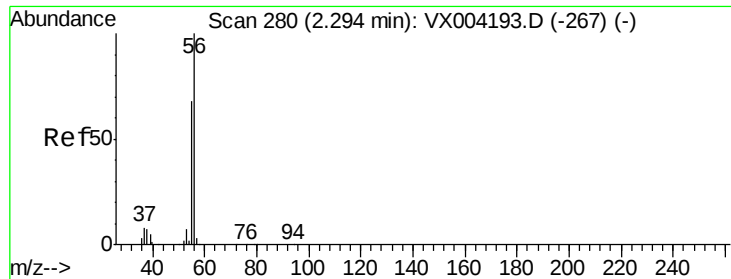
#11
Tert butyl alcohol
Concen: 0.56 ug/l
RT: 3.07 min Scan# 314
Delta R.T. -0.01 min
Lab File: VX004454.D
Acq: 10 Sep 2018 17:41

Tgt Ion: 59 Resp: 444
Ion Ratio Lower Upper
59 100
57 9.2 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: 1.00 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.00 min

Lab File: VX004454.D

Acq: 10 Sep 2018 17:41

Instrument :

MSVOA_X

ClientSampleId :

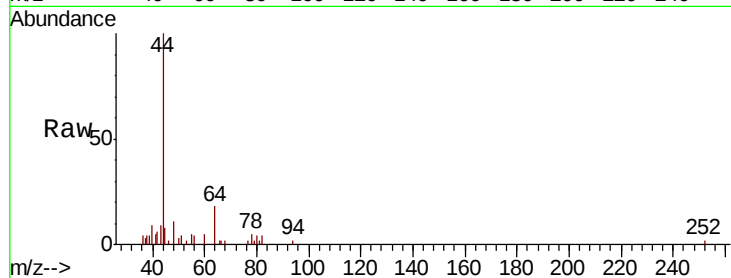
PB112704ZHE#11

Tot Ion: 56 Resp: 191

Ion Ratio Lower Upper

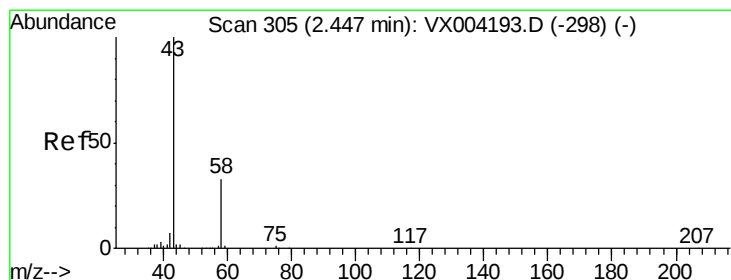
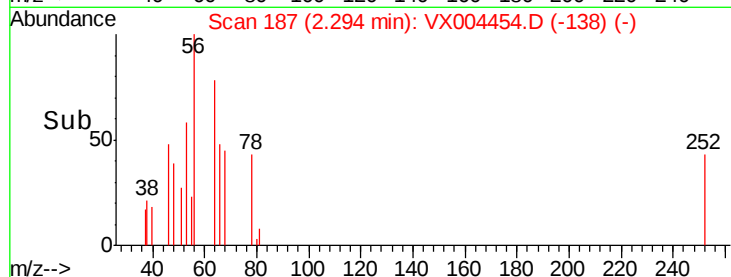
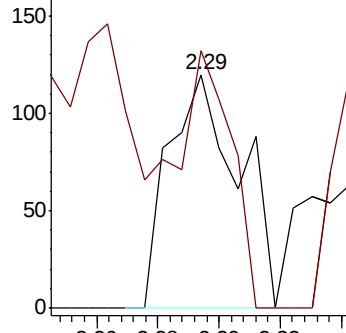
56 100

55 60.7 54.7 82.1



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 10.57 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX004454.D

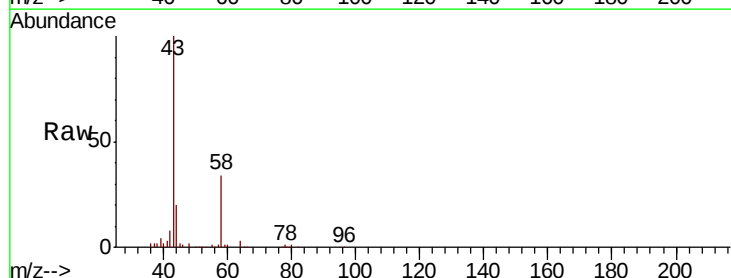
Acq: 10 Sep 2018 17:41

Tgt Ion: 43 Resp: 27763

Ion Ratio Lower Upper

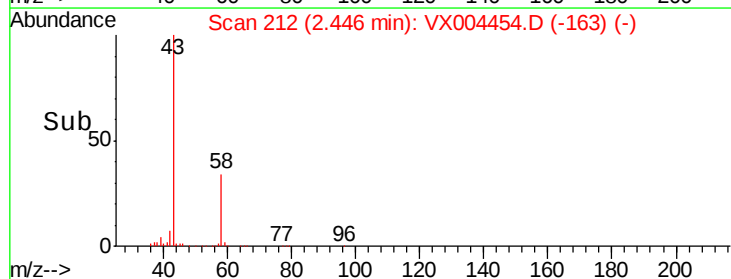
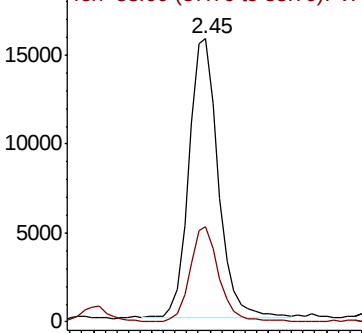
43 100

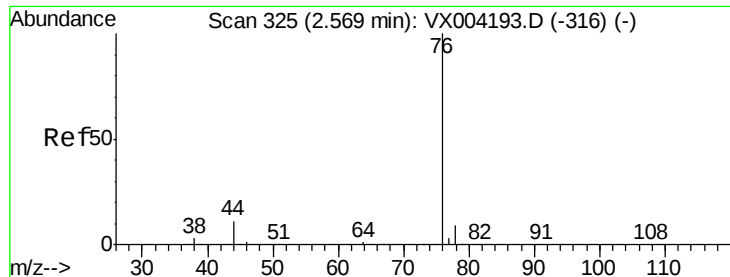
58 34.2 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.86 ug/l

RT: 2.56 min Scan# 231

Delta R.T. -0.01 min

Lab File: VX004454.D

Acq: 10 Sep 2018 17:41

Instrument :

MSVOA_X

ClientSampleId :

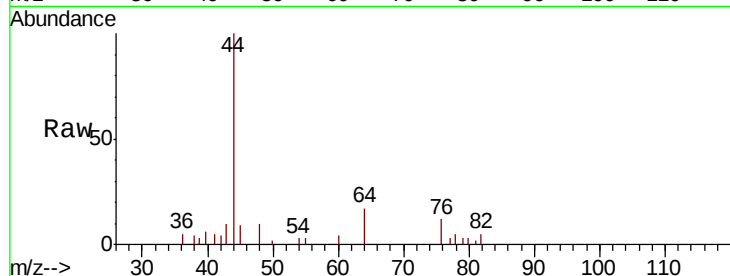
PB112704ZHE#11

Tot Ion: 76 Resp: 503

Ion Ratio Lower Upper

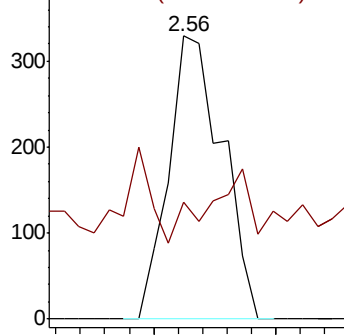
76 100

78 5.2 7.0 10.6#

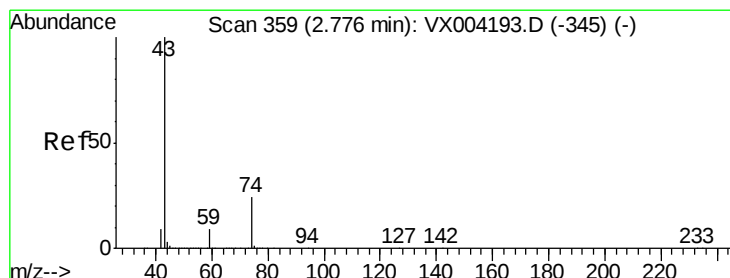
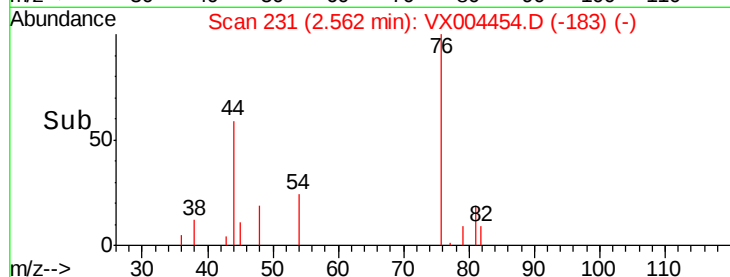


Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



Time-->



#18

Methyl Acetate

Concen: 2.27 ug/l

RT: 2.78 min Scan# 266

Delta R.T. -0.00 min

Lab File: VX004454.D

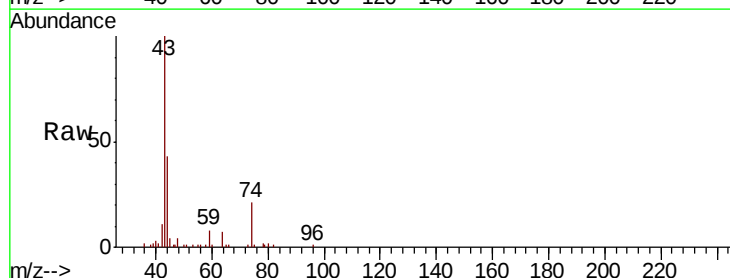
Acq: 10 Sep 2018 17:41

Tgt Ion: 43 Resp: 12517

Ion Ratio Lower Upper

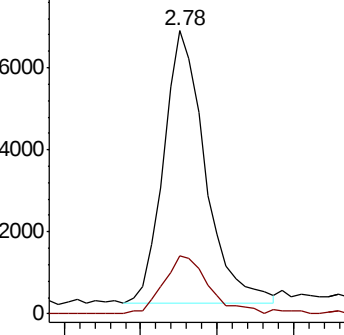
43 100

74 23.0 19.4 29.2

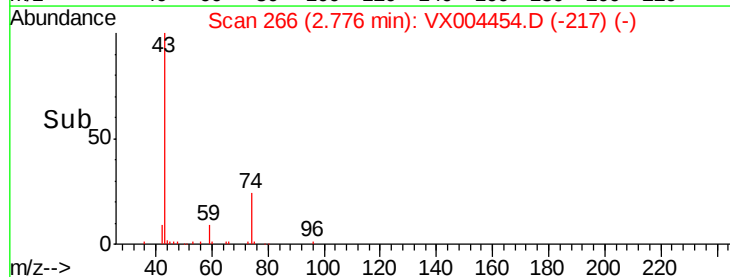


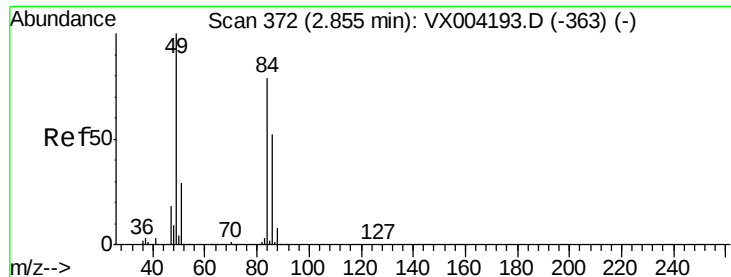
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0



Time-->

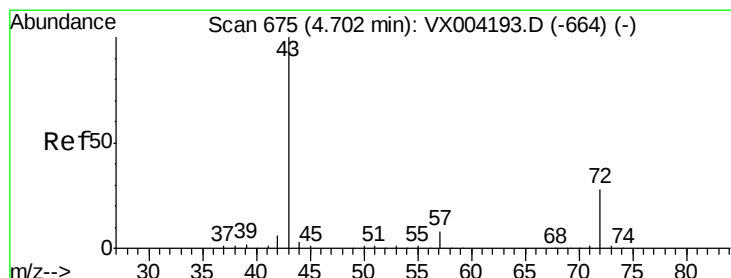
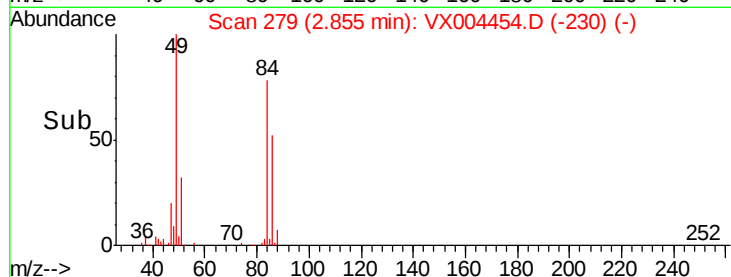
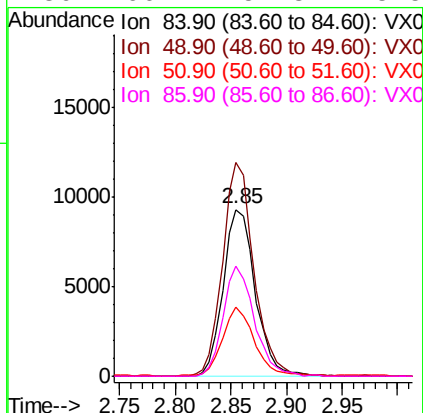
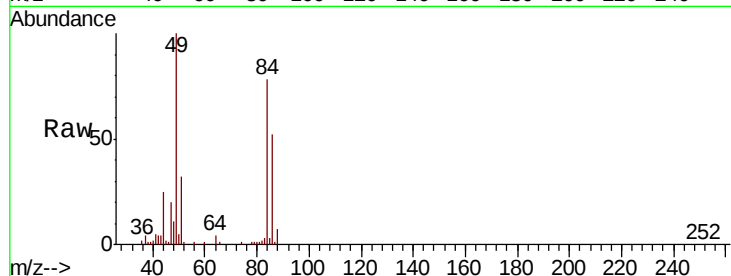




#20
Methylene Chloride
Concen: 5.21 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.00 min
Lab File: VX004454.D
Acq: 10 Sep 2018 17:41

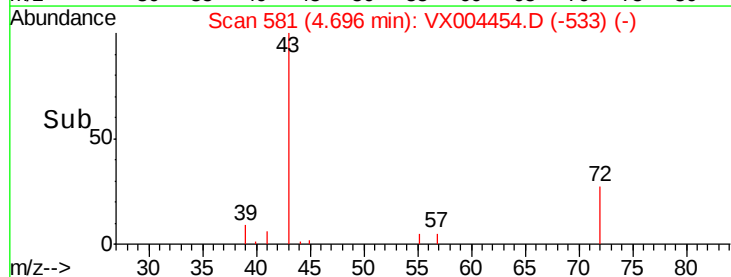
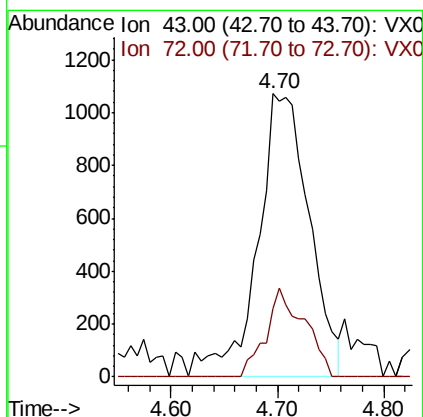
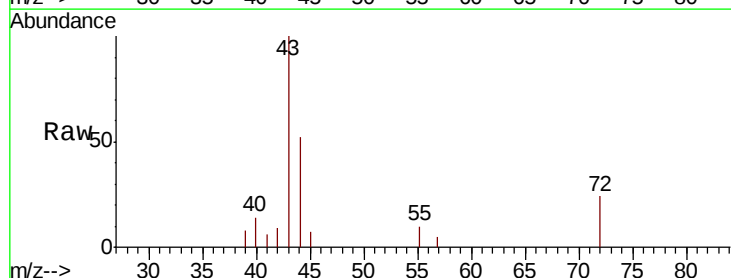
Instrument :
MSVOA_X
ClientSampleId :
PB112704ZHE#11

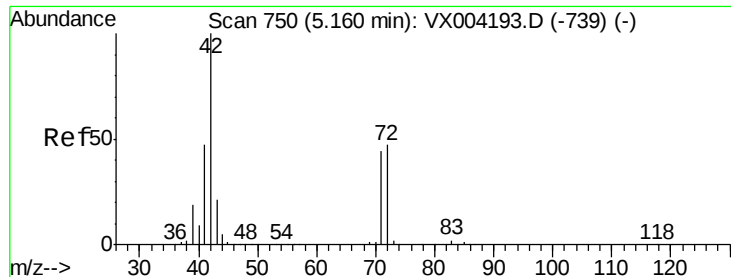
Tot Ion: 84 Resp: 18630
Ion Ratio Lower Upper
84 100
49 128.1 101.2 151.8
51 41.0 29.5 44.3
86 66.2 52.3 78.5



#25
2-Butanone
Concen: Below Cal
RT: 4.70 min Scan# 581
Delta R.T. -0.01 min
Lab File: VX004454.D
Acq: 10 Sep 2018 17:41

Tgt Ion: 43 Resp: 3604
Ion Ratio Lower Upper
43 100
72 24.3 22.0 33.0





#29

Tetrahydrofuran

Concen: 1.03 ug/l

RT: 5.16 min Scan# 657

Delta R.T. -0.00 min

Lab File: VX004454.D

Acq: 10 Sep 2018 17:41

Instrument :

MSVOA_X

ClientSampleId :

PB112704ZHE#11

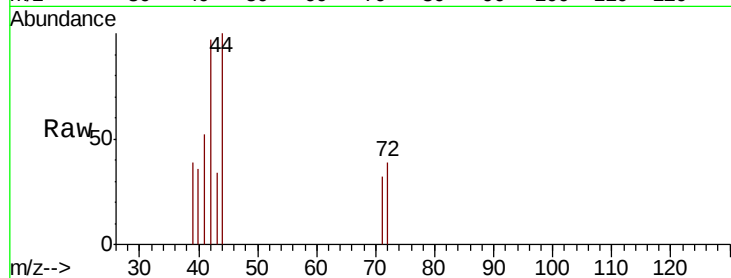
Tot Ion: 42 Resp: 1639

Ion Ratio Lower Upper

42 100

72 38.5 37.4 56.0

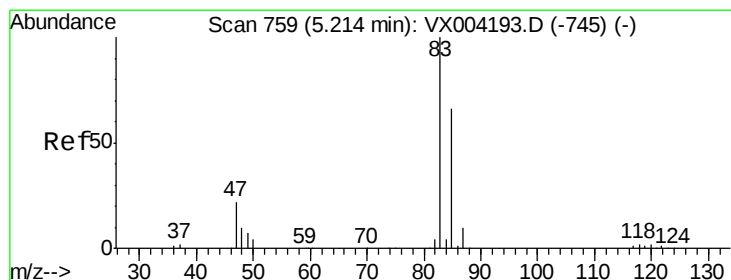
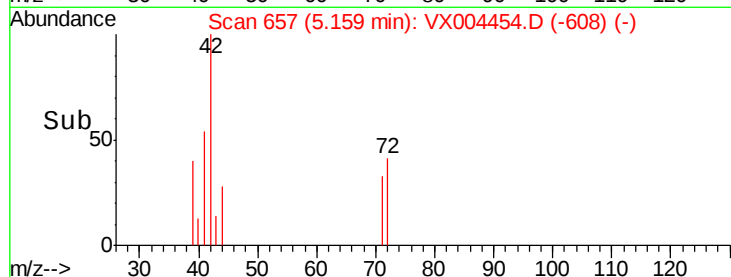
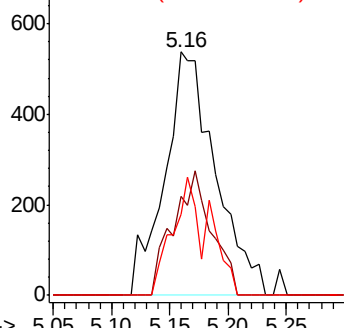
71 23.5 34.5 51.7#



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#30

Chloroform

Concen: 0.55 ug/l

RT: 5.21 min Scan# 666

Delta R.T. -0.00 min

Lab File: VX004454.D

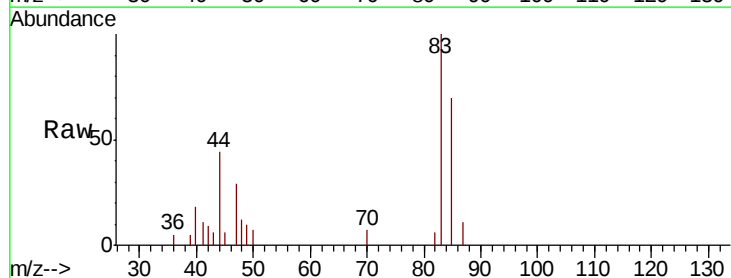
Acq: 10 Sep 2018 17:41

Tgt Ion: 83 Resp: 3326

Ion Ratio Lower Upper

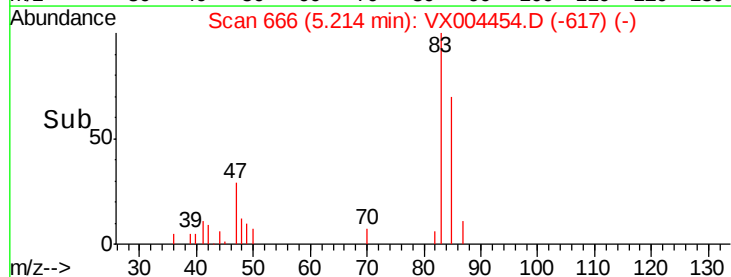
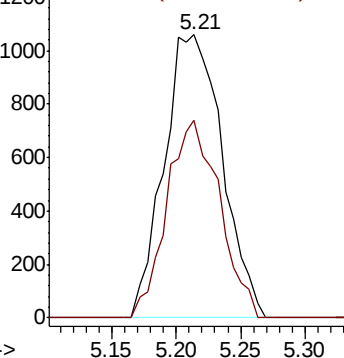
83 100

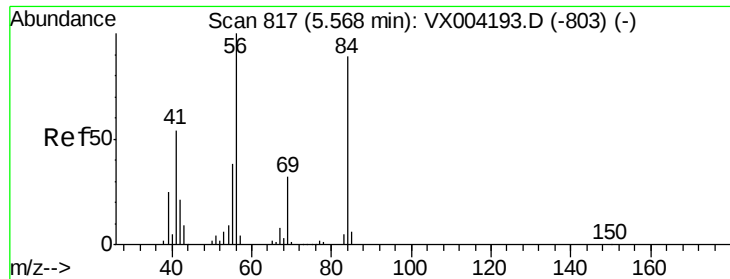
85 70.0 52.6 79.0



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

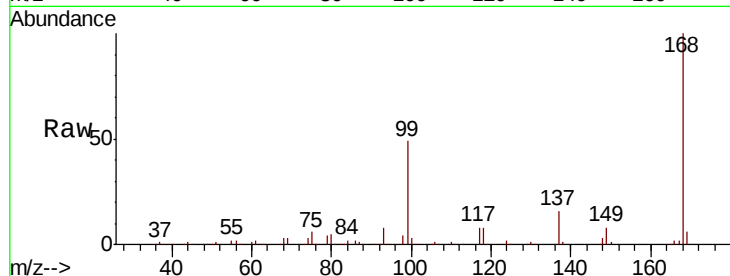




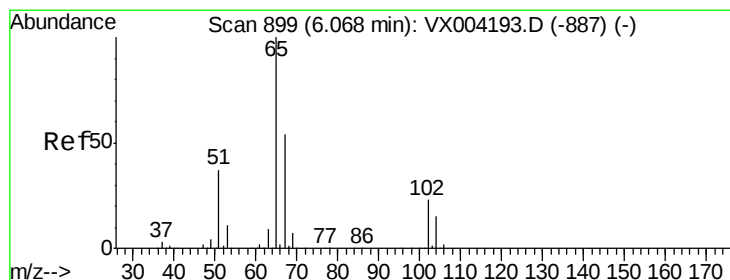
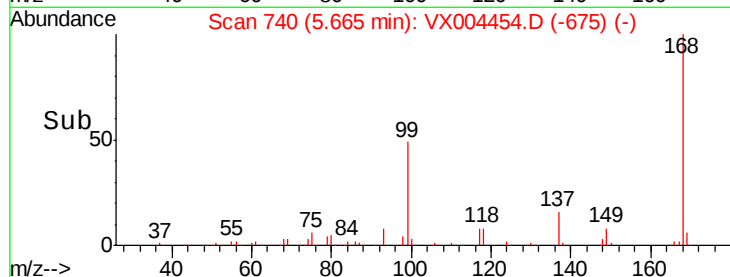
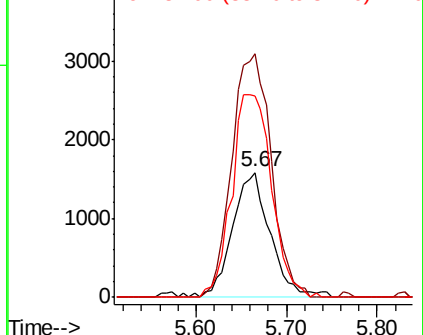
#31
Cyclohexane
Concen: 0.88 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.10 min
Lab File: VX004454.D
Acq: 10 Sep 2018 17:41

Instrument :
MSVOA_X
ClientSampleId :
PB112704ZHE#11

Tot Ion: 56 Resp: 4598
Ion Ratio Lower Upper
56 100
69 194.5 25.4 38.2#
84 160.6 71.4 107.2#

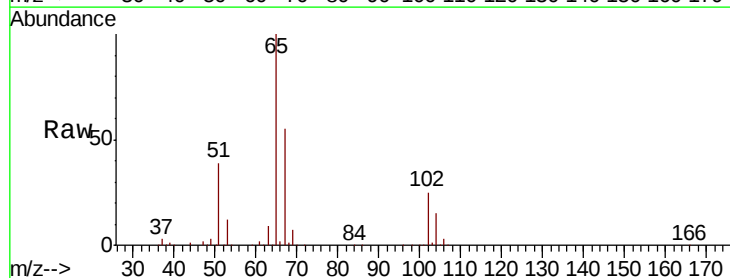


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

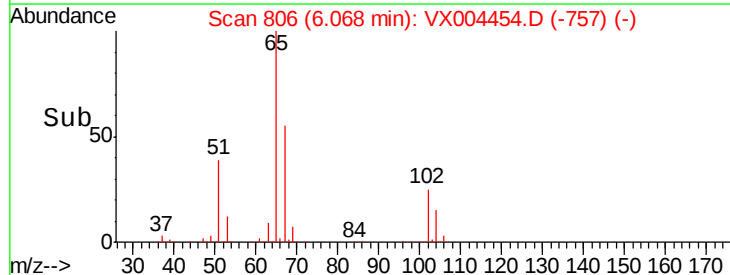
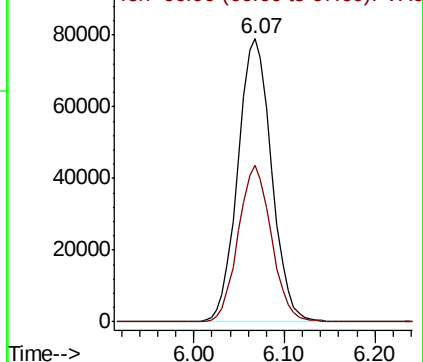


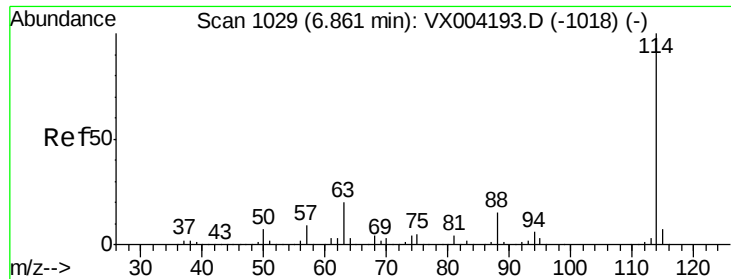
#33
1,2-Dichloroethane-d4
Concen: 54.82 ug/l
RT: 6.07 min Scan# 806
Delta R.T. -0.00 min
Lab File: VX004454.D
Acq: 10 Sep 2018 17:41

Tgt Ion: 65 Resp: 203743
Ion Ratio Lower Upper
65 100
67 54.5 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

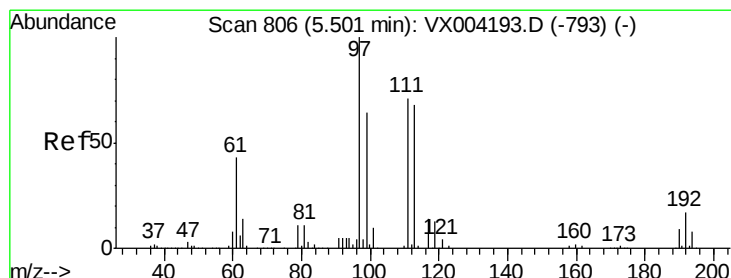
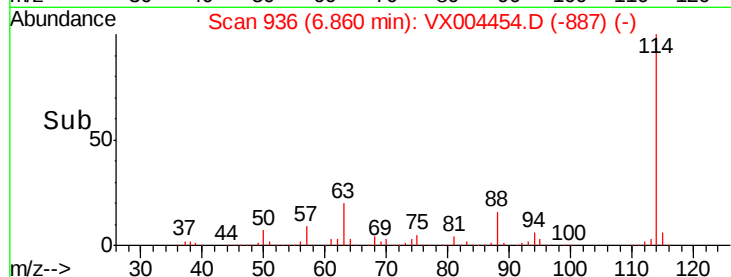
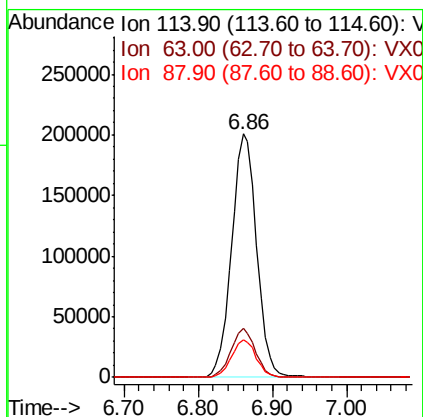
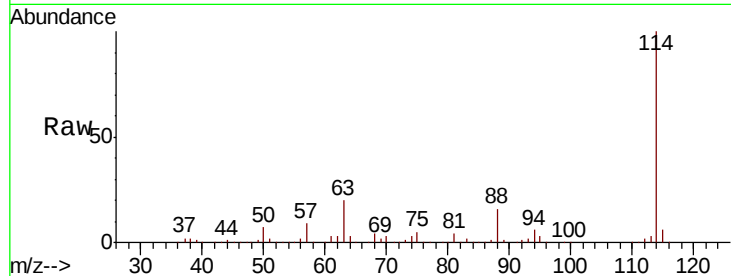




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX004454.D
 Acq: 10 Sep 2018 17:41

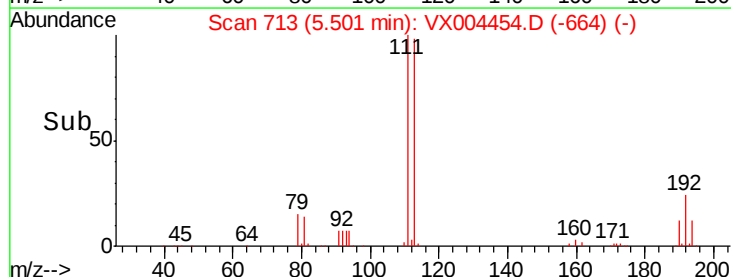
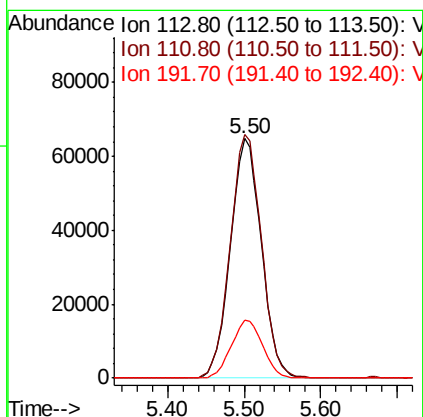
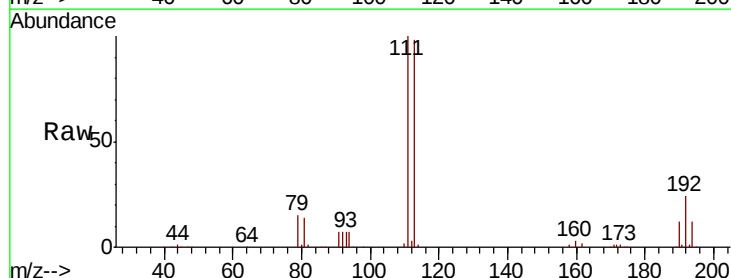
Instrument :
 MSVOA_X
 ClientSampleId :
 PB112704ZHE#11

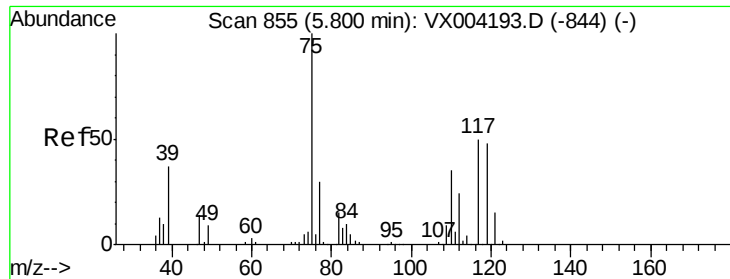
Tot Ion:114 Resp: 472134
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 39.0
 88 15.7 0.0 30.4



#35
 Dibromofluoromethane
 Concen: 51.70 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX004454.D
 Acq: 10 Sep 2018 17:41

Tgt Ion:113 Resp: 181578
 Ion Ratio Lower Upper
 113 100
 111 102.5 82.4 123.6
 192 24.5 19.4 29.2

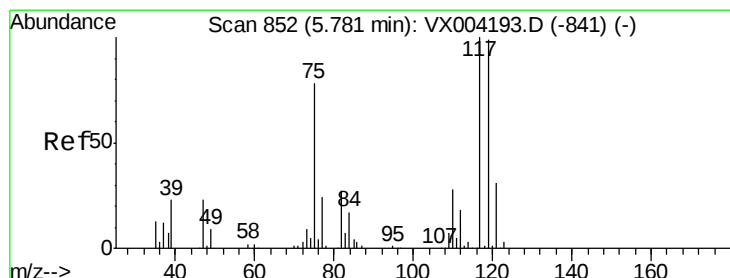
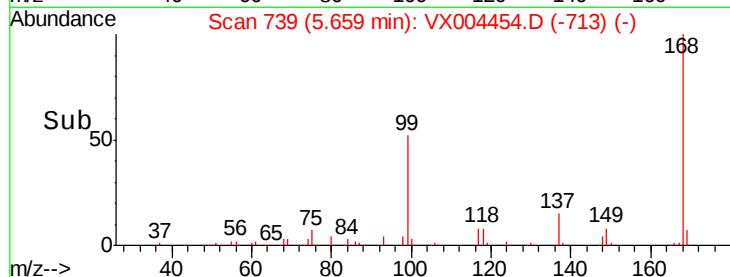
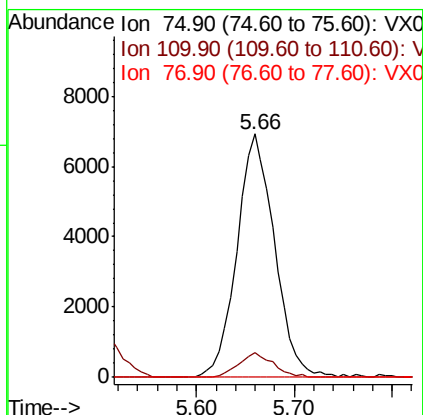
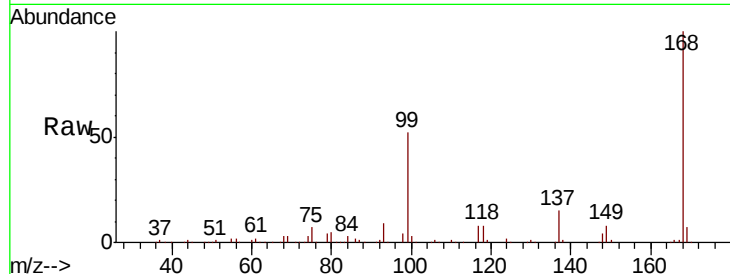




#36
 1,1-Dichloropropene
 Concen: 3.48 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX004454.D
 Acq: 10 Sep 2018 17:41

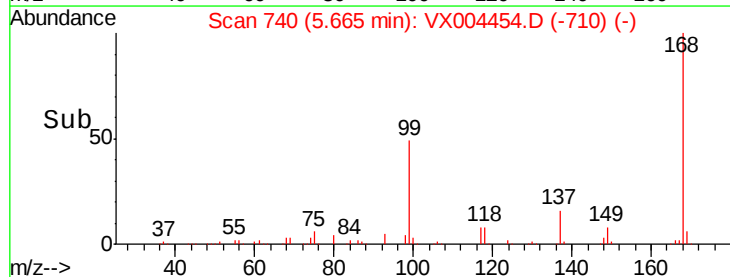
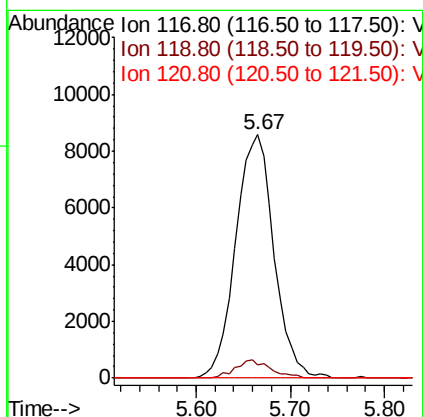
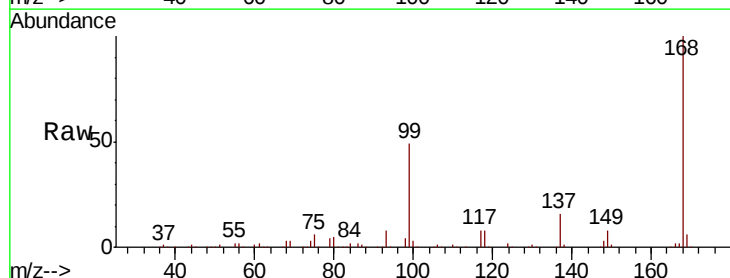
Instrument :
 MSVOA_X
 ClientSampleId :
 PB112704ZHE#11

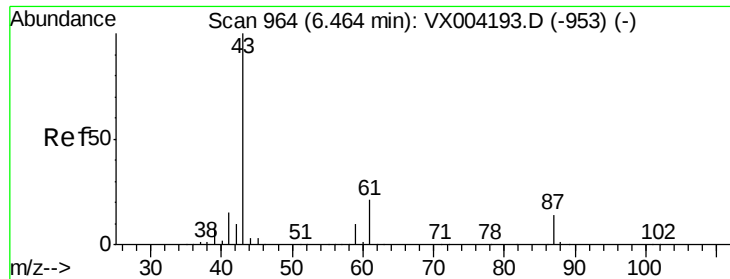
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.5	18.0	54.0#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 4.86 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.12 min
 Lab File: VX004454.D
 Acq: 10 Sep 2018 17:41

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.3	78.8	118.2#
121	0.0	24.9	37.3#



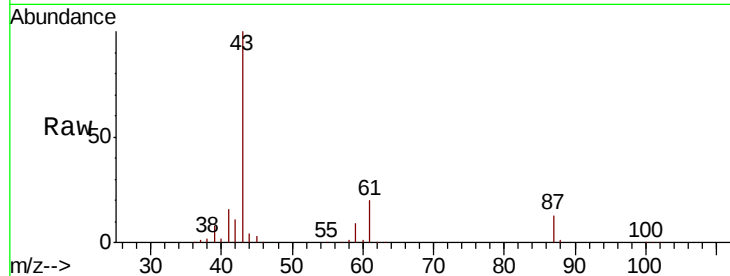


#43

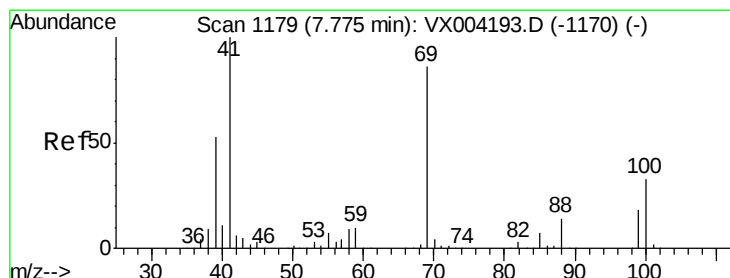
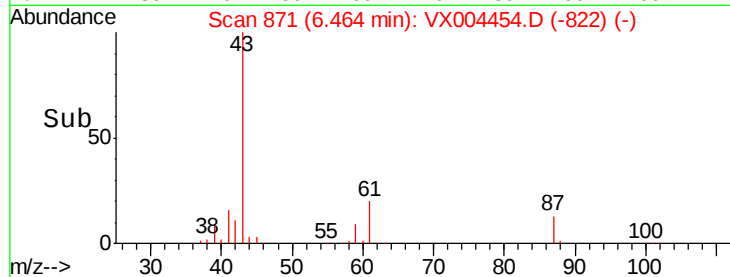
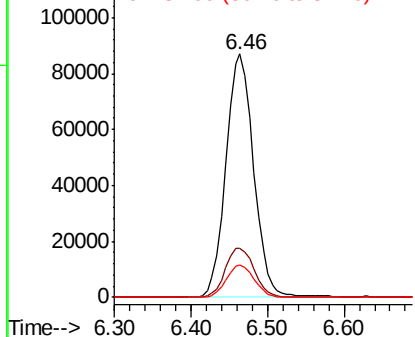
Isopropyl Acetate
 Concen: 27.29 ug/l
 RT: 6.46 min Scan# 871
 Delta R.T. -0.00 min
 Lab File: VX004454.D
 Acq: 10 Sep 2018 17:41

Instrument :
 MSVOA_X
 ClientSampleId :
 PB112704ZHE#11

Tot Ion	43	Resp	218924
Ion Ratio	Lower	Upper	
43	100		
61	21.3	17.0	25.4
87	13.7	11.4	17.2



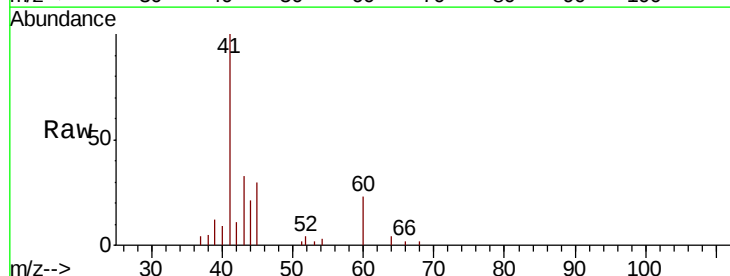
Abundance Ion 43.00 (42.70 to 43.70): VX0
 Ion 61.00 (60.70 to 61.70): VX0
 Ion 87.00 (86.70 to 87.70): VX0



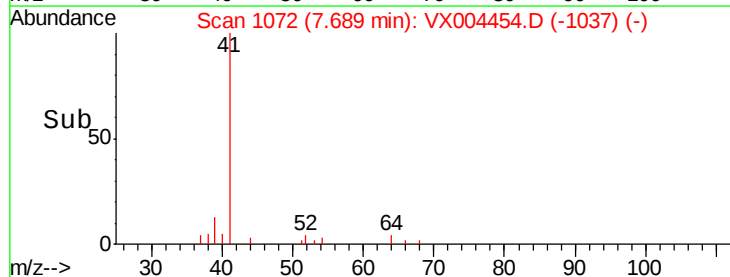
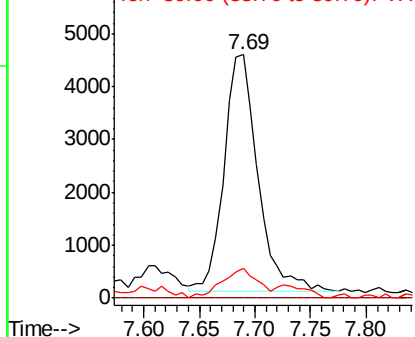
#48

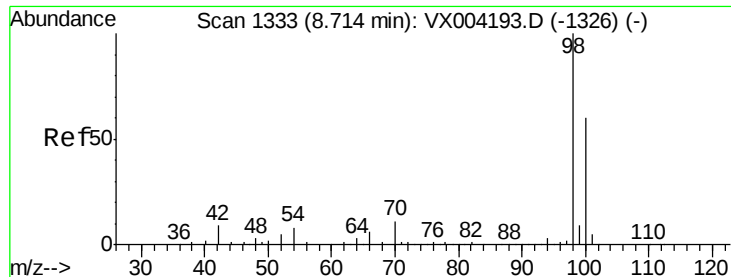
Methyl methacrylate
 Concen: 2.19 ug/l
 RT: 7.69 min Scan# 1072
 Delta R.T. -0.09 min
 Lab File: VX004454.D
 Acq: 10 Sep 2018 17:41

Tgt Ion	41	Resp	9406
Ion Ratio	Lower	Upper	
41	100		
69	0.0	70.2	105.4#
39	13.4	42.7	64.1#



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





#50

Toluene-d8

Concen: 51.48 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX004454.D

Acq: 10 Sep 2018 17:41

Instrument :

MSVOA_X

ClientSampleId :

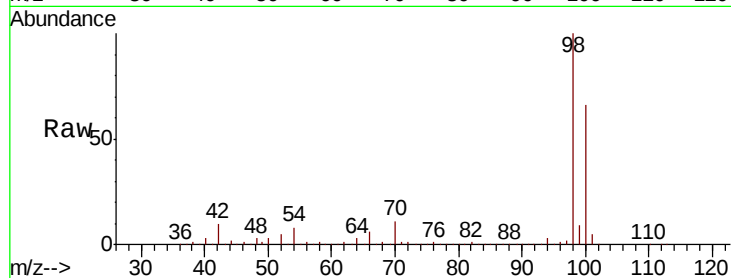
PB112704ZHE#11

Tot Ion: 98 Resp: 682551

Ion Ratio Lower Upper

98 100

100 65.7 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

8.71

400000

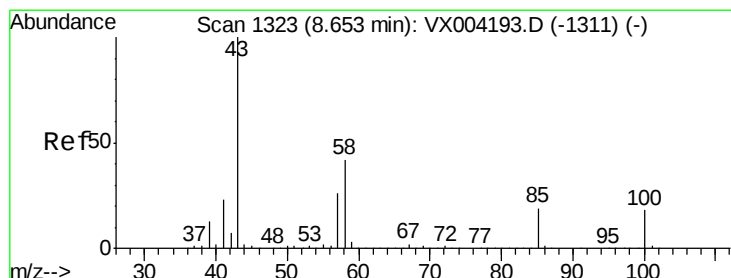
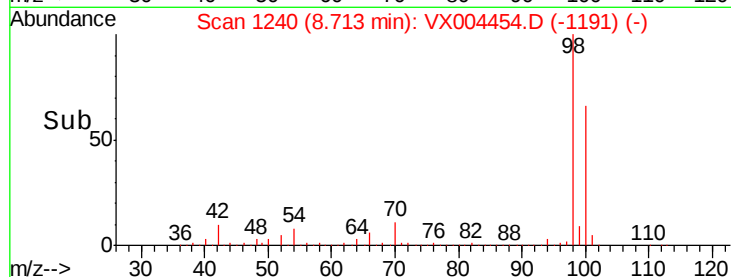
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.60 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. -0.03 min

Lab File: VX004454.D

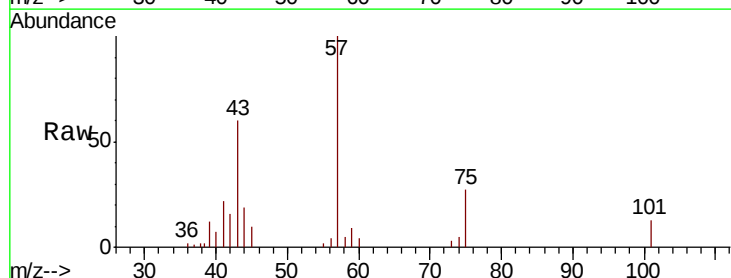
Acq: 10 Sep 2018 17:41

Tgt Ion: 43 Resp: 3487

Ion Ratio Lower Upper

43 100

58 0.0 33.1 49.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

8.62

2500

2000

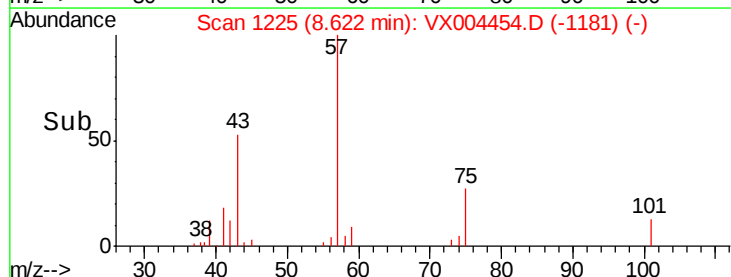
1500

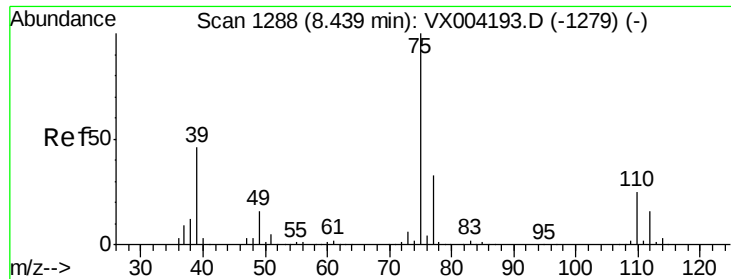
1000

500

0

Time-->

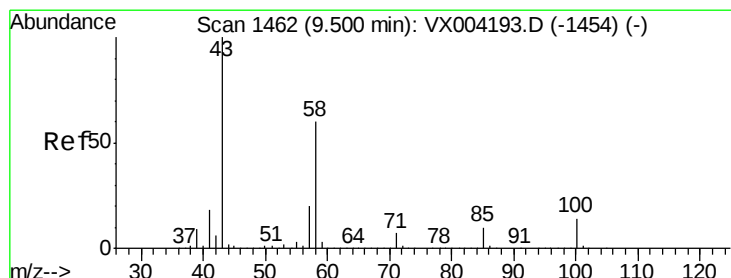
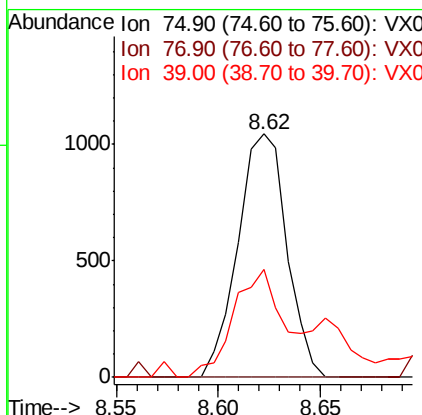
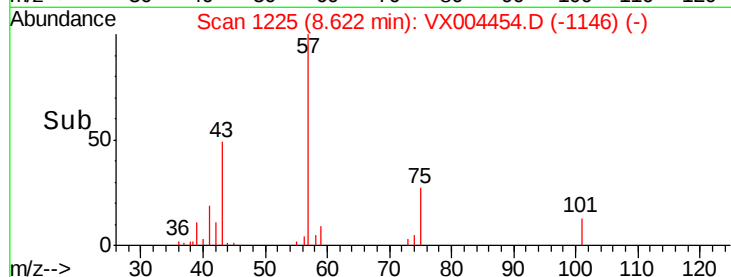
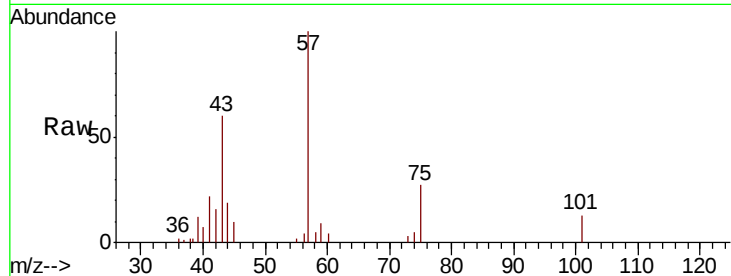




#54
 cis-1,3-Dichloropropene
 Concen: 0.30 ug/l
 RT: 8.62 min Scan# 1225
 Delta R.T. 0.18 min
 Lab File: VX004454.D
 Acq: 10 Sep 2018 17:41

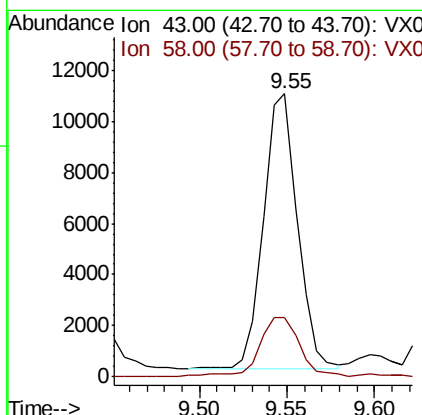
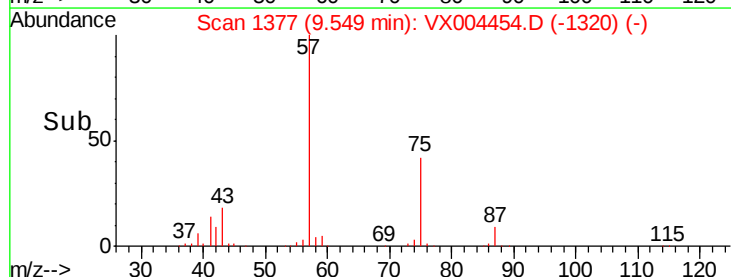
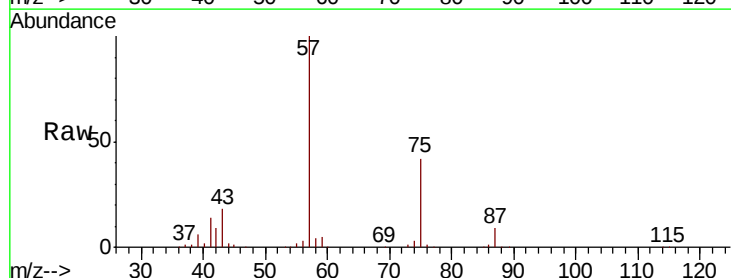
Instrument :
 MSVOA_X
 ClientSampleId :
 PB112704ZHE#11

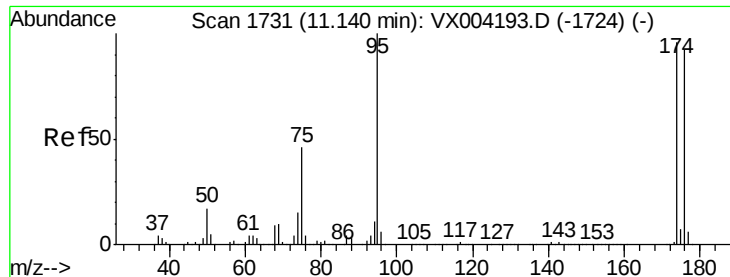
Tot Ion: 75 Resp: 1746
 Ion Ratio Lower Upper
 75 100
 77 0.0 26.2 39.2#
 39 44.2 36.4 54.6



#59
 2-Hexanone
 Concen: 3.28 ug/l
 RT: 9.55 min Scan# 1377
 Delta R.T. 0.05 min
 Lab File: VX004454.D
 Acq: 10 Sep 2018 17:41

Tgt Ion: 43 Resp: 14596
 Ion Ratio Lower Upper
 43 100
 58 25.9 29.0 87.0#

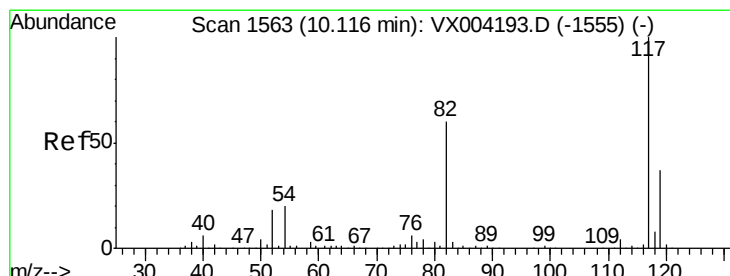
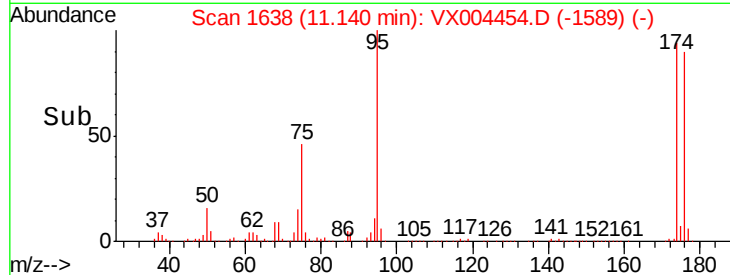
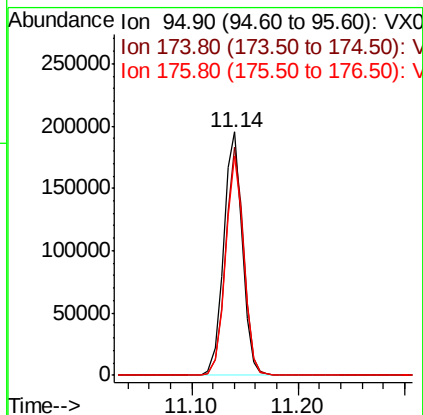
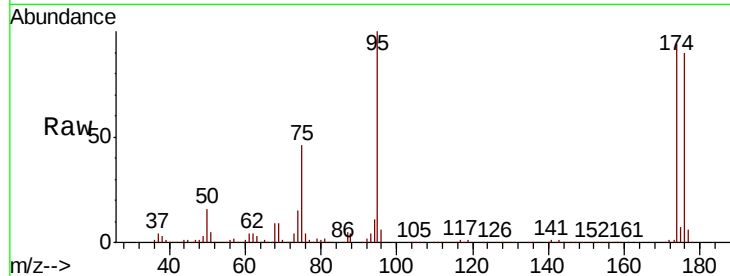




#62
4-Bromofluorobenzene
Concen: 48.34 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX004454.D
Acq: 10 Sep 2018 17:41

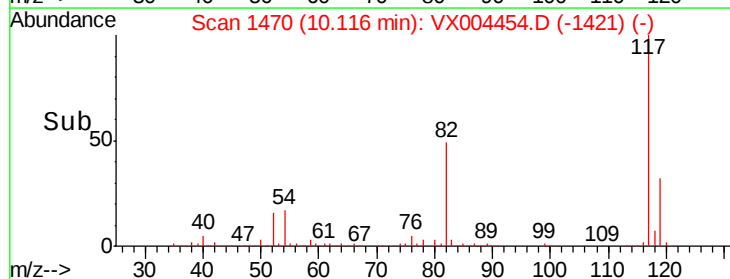
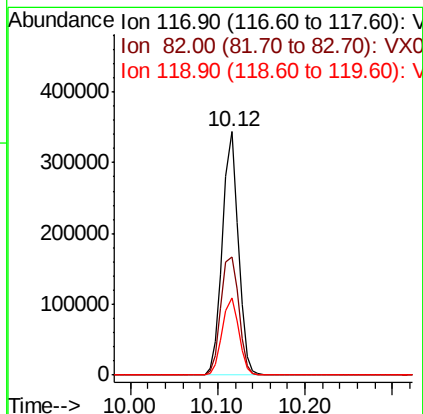
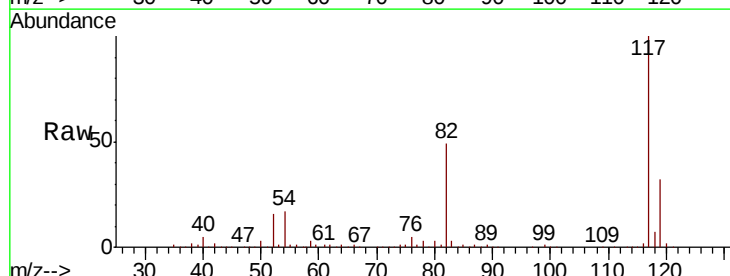
Instrument :
MSVOA_X
ClientSampleId :
PB112704ZHE#11

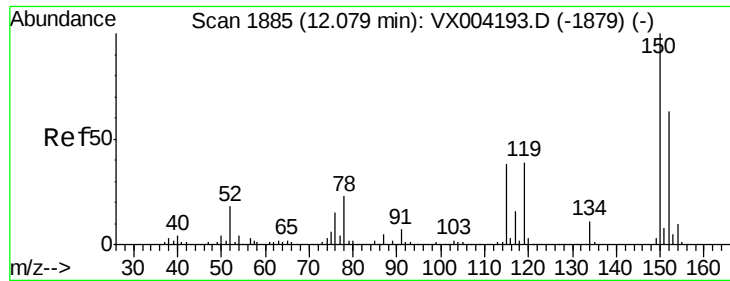
Tot Ion: 95 Resp: 239129
Ion Ratio Lower Upper
95 100
174 91.8 0.0 185.2
176 88.5 0.0 178.6



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX004454.D
Acq: 10 Sep 2018 17:41

Tgt Ion: 117 Resp: 431913
Ion Ratio Lower Upper
117 100
82 48.6 47.8 71.6
119 31.9 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: VX004454.D

Acq: 10 Sep 2018 17:41

Instrument :

MSVOA_X

ClientSampleId :

PB112704ZHE#11

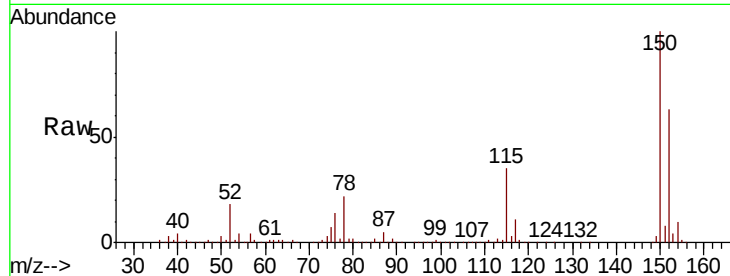
Tot Ion:152 Resp: 250147

Ion Ratio Lower Upper

152 100

115 54.5 39.0 117.0

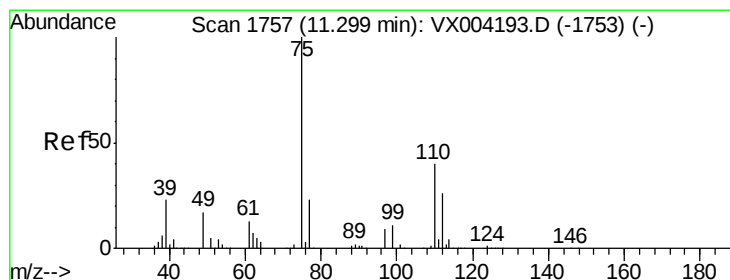
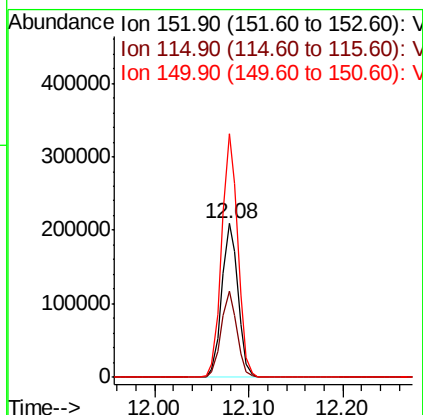
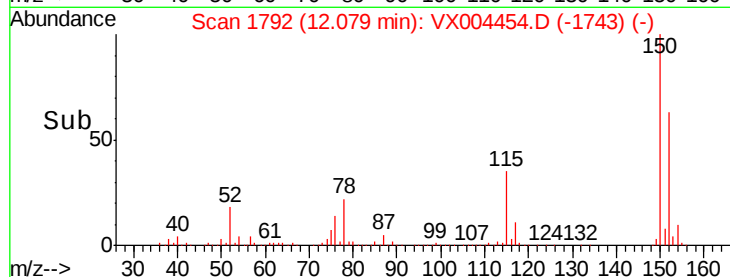
150 157.3 0.0 351.0



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: 21.92 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004454.D

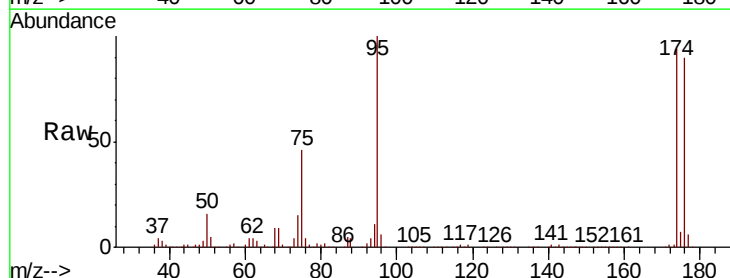
Acq: 10 Sep 2018 17:41

Tgt Ion: 75 Resp: 111515

Ion Ratio Lower Upper

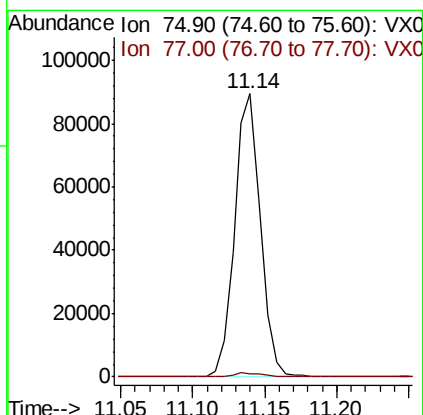
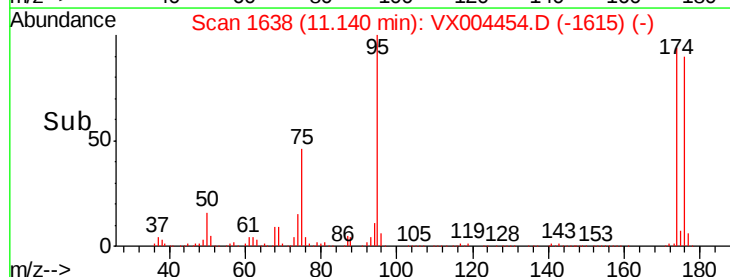
75 100

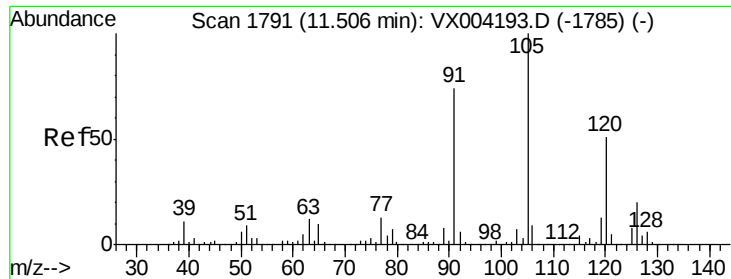
77 1.5 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

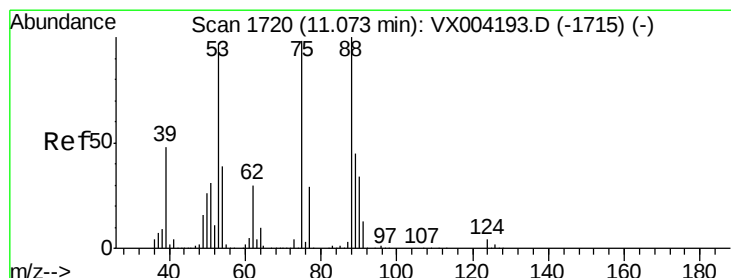
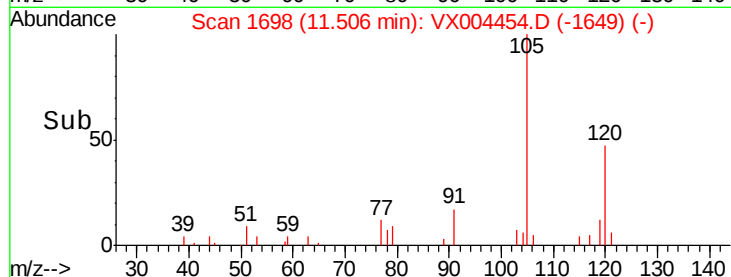
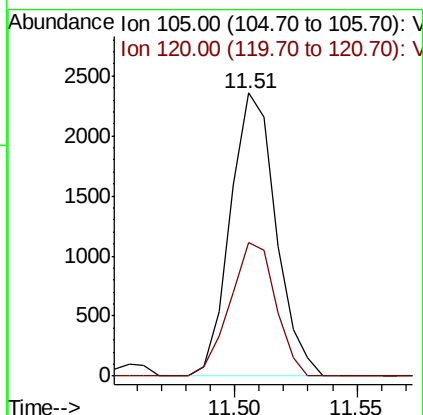
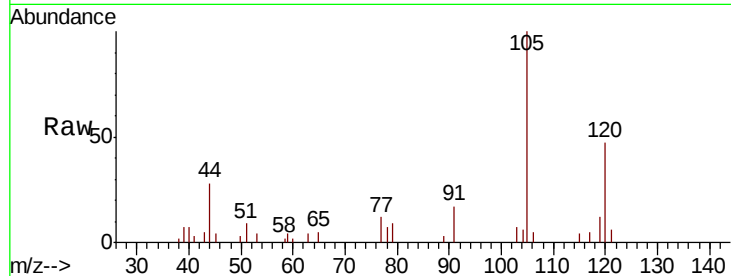




#80
 1,3,5-Trimethylbenzene
 Concen: 0.22 ug/l
 RT: 11.51 min Scan# 1698
 Delta R.T. -0.00 min
 Lab File: VX004454.D
 Acq: 10 Sep 2018 17:41

Instrument :
 MSVOA_X
 ClientSampleId :
 PB112704ZHE#11

Tot Ion:105 Resp: 3056
 Ion Ratio Lower Upper
 105 100
 120 47.3 25.6 76.8



#81
 trans-1,4-Dichloro-2-butene
 Concen: 71.12 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. 0.07 min
 Lab File: VX004454.D
 Acq: 10 Sep 2018 17:41

Tgt Ion: 75 Resp: 111515
 Ion Ratio Lower Upper
 75 100
 53 0.2 80.1 120.1#
 89 0.0 37.2 55.8#

