

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091018\
 Data File : VX004453.D
 Acq On : 10 Sep 2018 17:14
 Operator : JC/MD
 Sample : PB112704ZHE#10
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB112704ZHE#10

Quant Time: Sep 11 01:21:45 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	5.66	168	291674	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	485362	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	447338	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	270338	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	209176	55.02	ug/l	0.00
Spiked Amount			Recovery	=	110.04%	
35) Dibromofluoromethane	5.50	113	186476	51.64	ug/l	0.00
Spiked Amount			Recovery	=	103.28%	
50) Toluene-d8	8.71	98	699906	51.35	ug/l	0.00
Spiked Amount			Recovery	=	102.70%	
62) 4-Bromofluorobenzene	11.14	95	251726	49.50	ug/l	0.00
Spiked Amount			Recovery	=	99.00%	

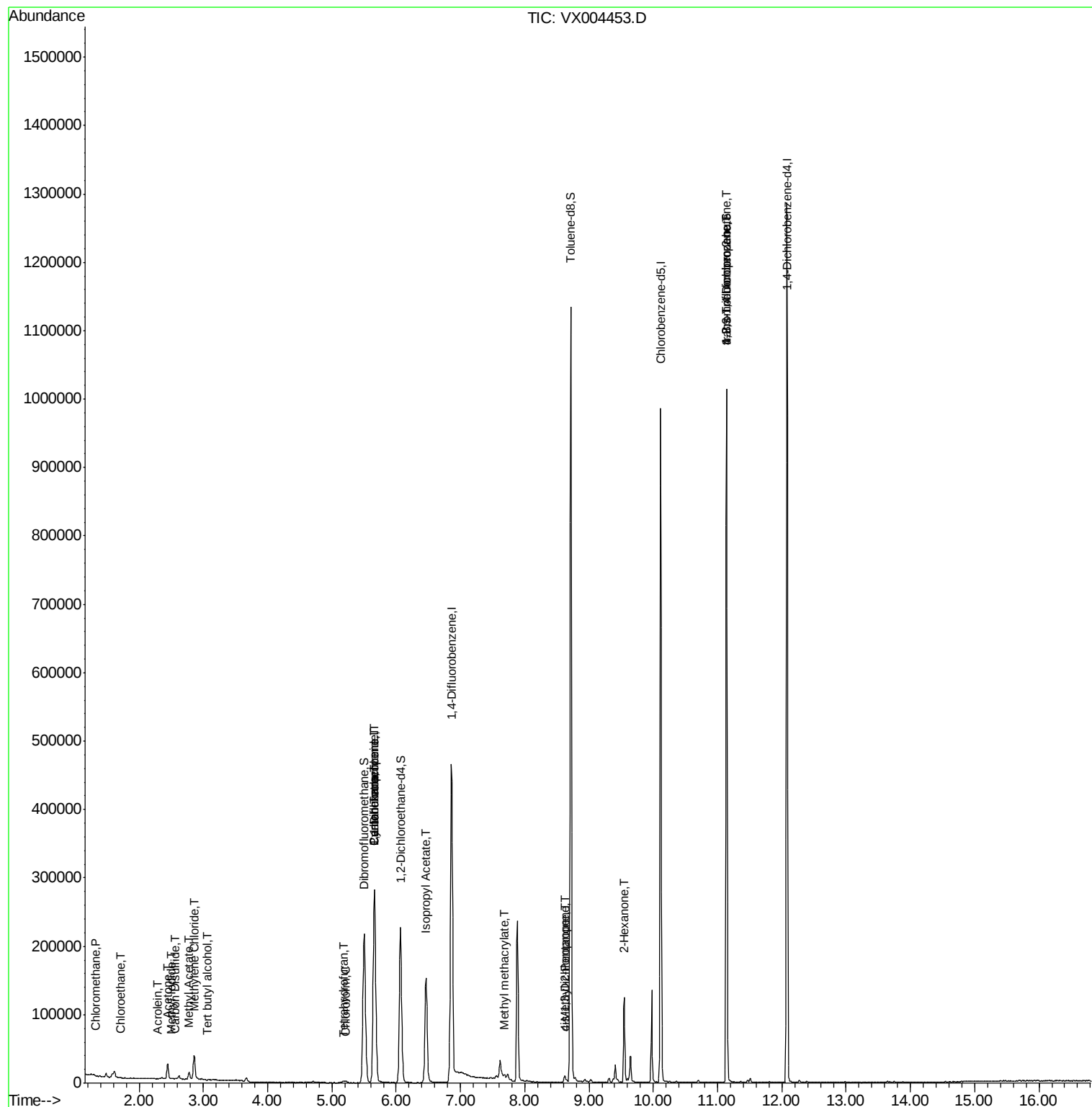
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	571	0.44	ug/l	100
5) Bromomethane	1.64	94	303	Below Cal	#	43
6) Chloroethane	1.72	64	175	1.03	ug/l	44
10) Methyl Iodide	2.51	142	201	4.31	ug/l	72
11) Tert butyl alcohol	3.07	59	356	0.44	ug/l	93
13) Acrolein	2.29	56	294	1.50	ug/l	75
16) Acetone	2.45	43	24759	8.14	ug/l	95
17) Carbon Disulfide	2.57	76	534	0.86	ug/l	98
18) Methyl Acetate	2.78	43	12128	2.15	ug/l	99
20) Methylene Chloride	2.85	84	16893	4.62	ug/l	95
25) 2-Butanone	4.71	43	3573	Below Cal	#	87
29) Tetrahydrofuran	5.18	42	1526	0.93	ug/l	92
30) Chloroform	5.21	83	2689	0.43	ug/l	96
31) Cyclohexane	5.66	56	4920	0.92	ug/l	1
36) 1,1-Dichloropropene	5.67	75	19117	3.50	ug/l	49
38) Carbon Tetrachloride	5.67	117	25131	4.90	ug/l	17
43) Isopropyl Acetate	6.46	43	196507	23.83	ug/l	100
48) Methyl methacrylate	7.69	41	8361	1.89	ug/l	19
51) 4-Methyl-2-Pentanone	8.62	43	3201	0.53	ug/l	34
54) cis-1,3-Dichloropropene	8.62	75	1579	0.26	ug/l	62
59) 2-Hexanone	9.55	43	13317	2.91	ug/l	55
76) 1,2,3-Trichloropropane	11.14	75	116935	21.27	ug/l	37
81) trans-1,4-Dichloro-2-buten	11.14	75	116935	69.01	ug/l	10
94) Hexachlorobutadiene	13.78	225	123	Below Cal	#	53

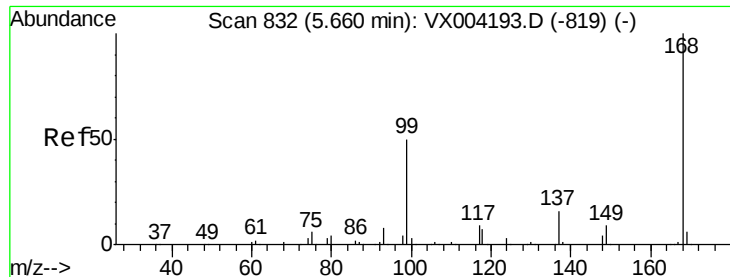
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX091018\
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ClientSampleId :
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Quant Time: Sep 11 01:21:45 2018
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: 5.66 min Scan# 739

Delta R.T. -0.00 min

Lab File: VX004453.D

Acq: 10 Sep 2018 17:14

Instrument :

MSVOA_X

ClientSampleId :

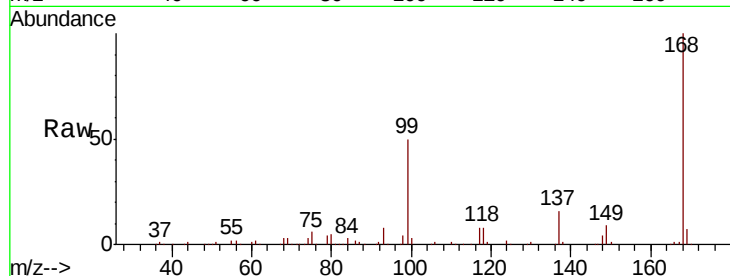
PB112704ZHE#10

Tot Ion:168 Resp: 291674

Ion Ratio Lower Upper

168 100

99 49.8 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

120000

100000

80000

60000

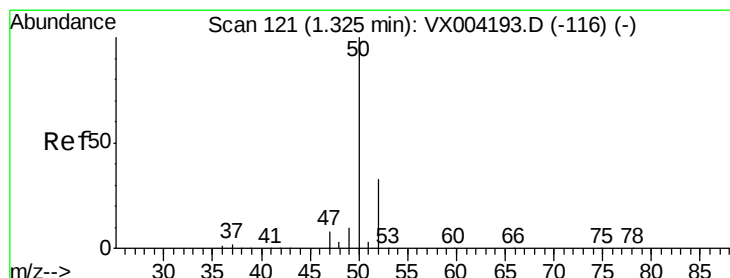
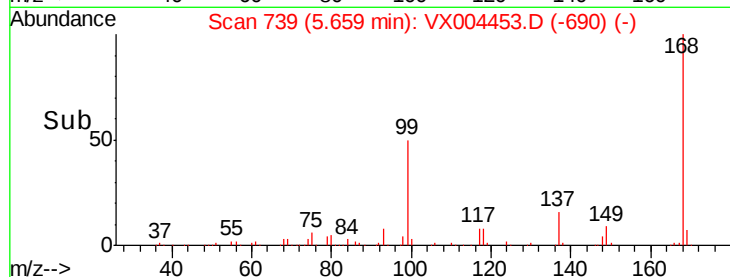
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.44 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX004453.D

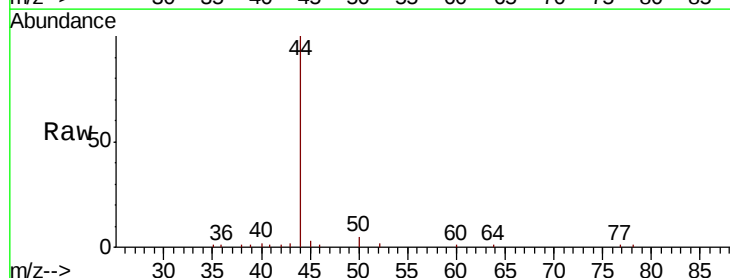
Acq: 10 Sep 2018 17:14

Tgt Ion: 50 Resp: 571

Ion Ratio Lower Upper

50 100

52 32.6 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

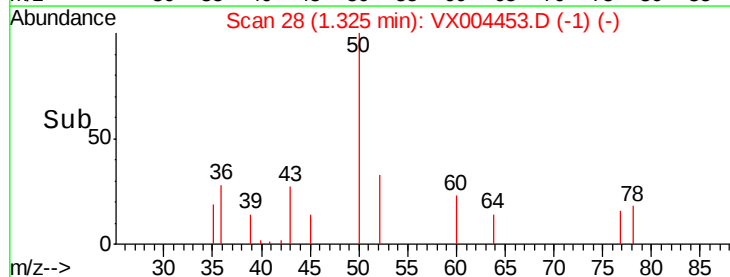
200

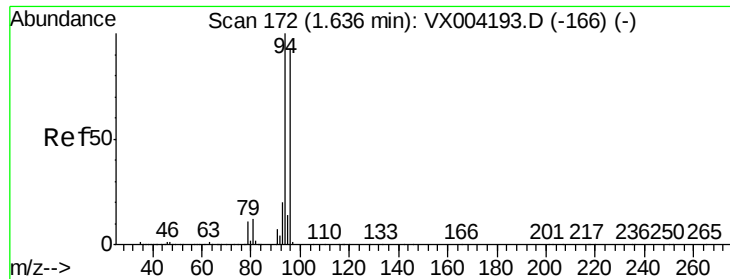
100

0

Time-->

1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX004453.D

Acq: 10 Sep 2018 17:14

Instrument :

MSVOA_X

ClientSampleId :

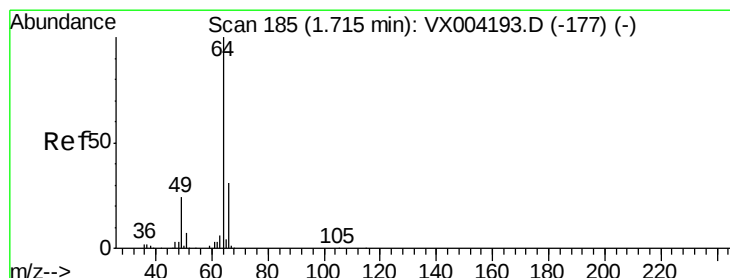
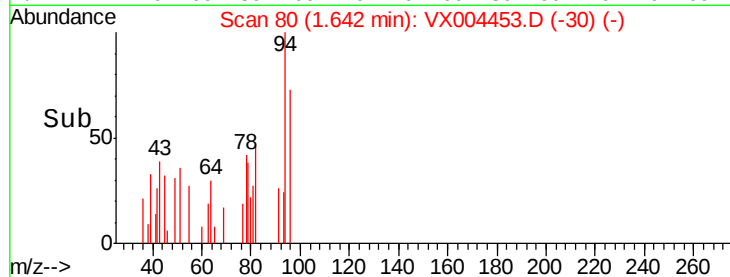
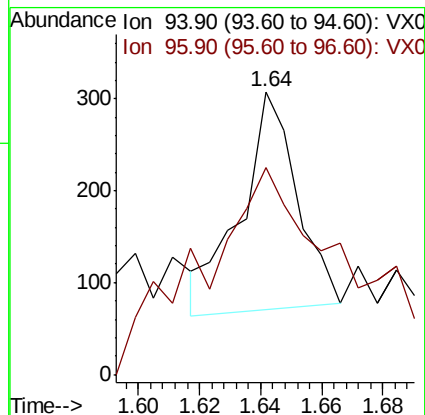
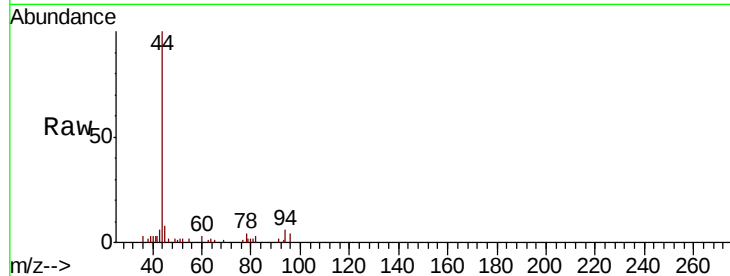
PB112704ZHE#10

Tot Ion: 94 Resp: 303

Ion Ratio Lower Upper

94 100

96 38.1 74.5 111.7#



#6

Chloroethane

Concen: 1.03 ug/l

RT: 1.72 min Scan# 93

Delta R.T. 0.01 min

Lab File: VX004453.D

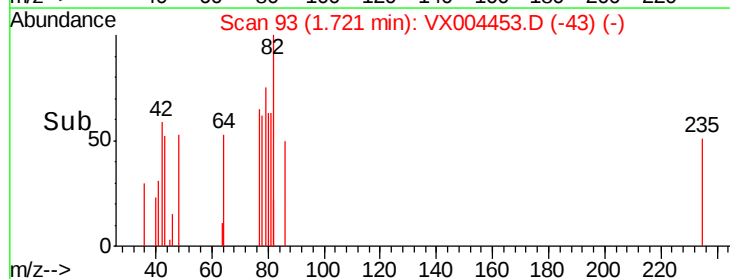
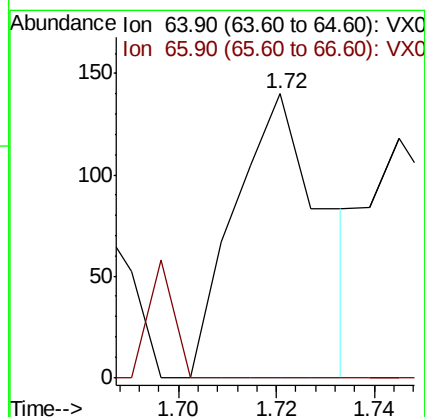
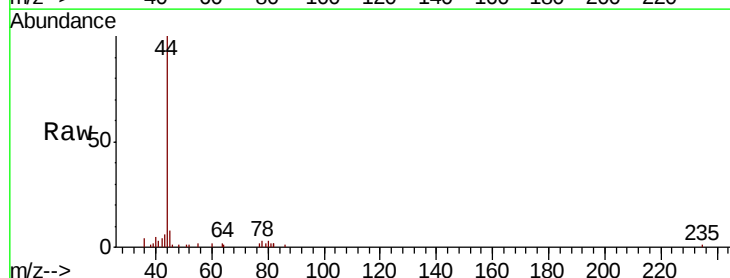
Acq: 10 Sep 2018 17:14

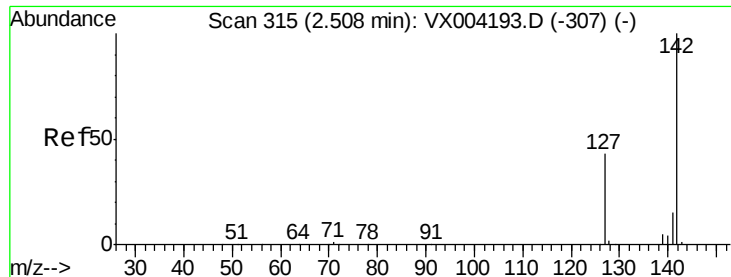
Tgt Ion: 64 Resp: 175

Ion Ratio Lower Upper

64 100

66 0.0 24.6 36.8#

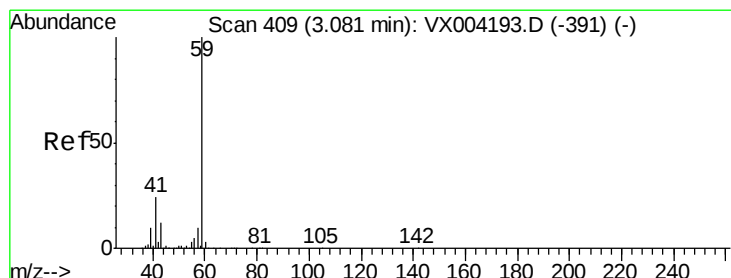
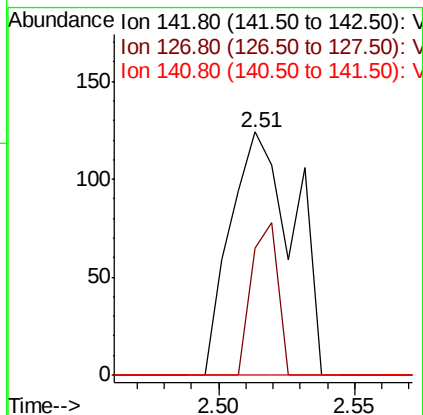
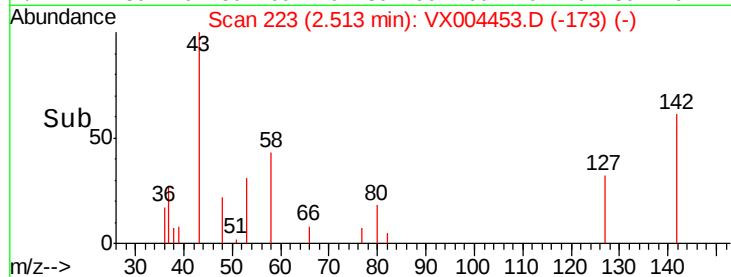
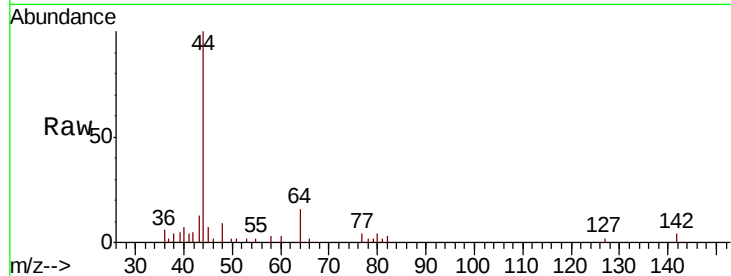




#10
Methyl Iodide
Concen: 4.31 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX004453.D
Acq: 10 Sep 2018 17:14

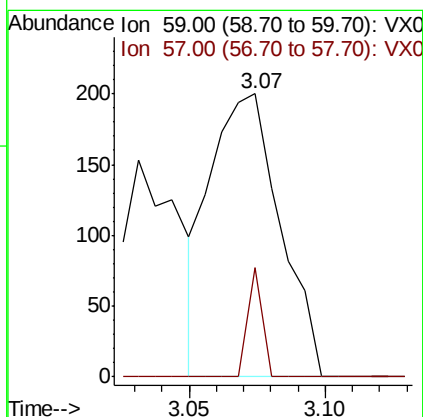
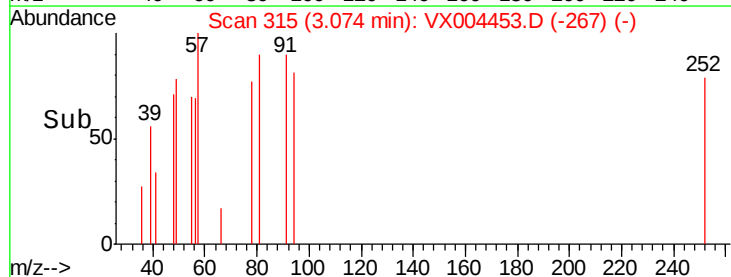
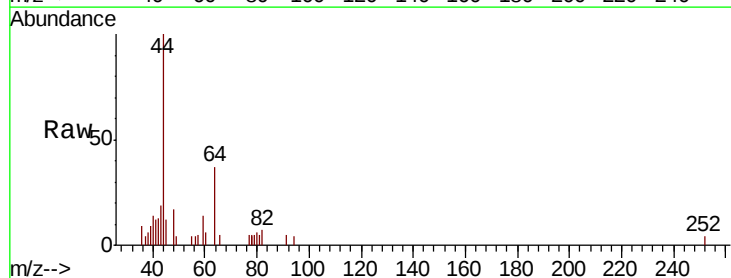
Instrument :
MSVOA_X
ClientSampleId :
PB112704ZHE#10

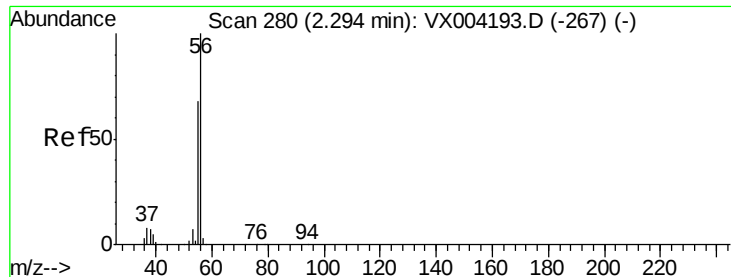
Tot Ion:142 Resp: 201
Ion Ratio Lower Upper
142 100
127 25.9 33.8 50.6#
141 0.0 11.4 17.0#



#11
Tert butyl alcohol
Concen: 0.44 ug/l
RT: 3.07 min Scan# 315
Delta R.T. -0.01 min
Lab File: VX004453.D
Acq: 10 Sep 2018 17:14

Tgt Ion: 59 Resp: 356
Ion Ratio Lower Upper
59 100
57 7.9 8.2 12.4#

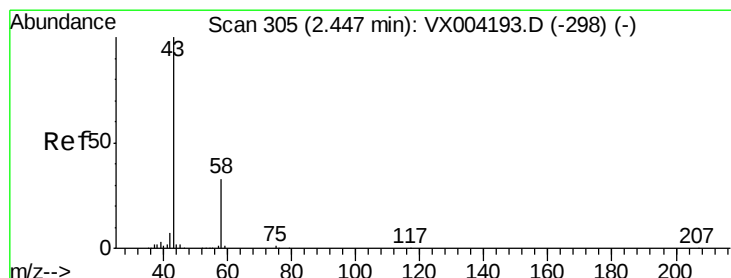
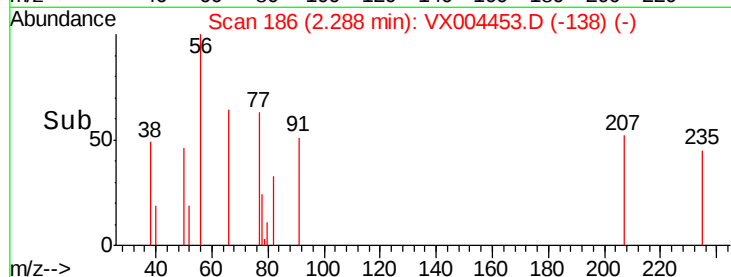
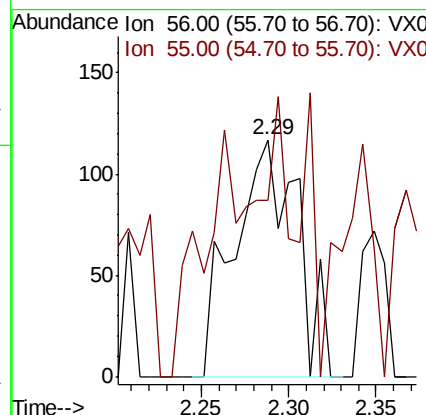
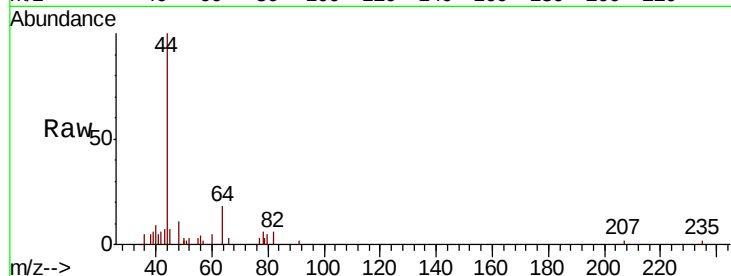




#13
Acrolein
Concen: 1.50 ug/l
RT: 2.29 min Scan# 186
Delta R.T. -0.01 min
Lab File: VX004453.D
Acq: 10 Sep 2018 17:14

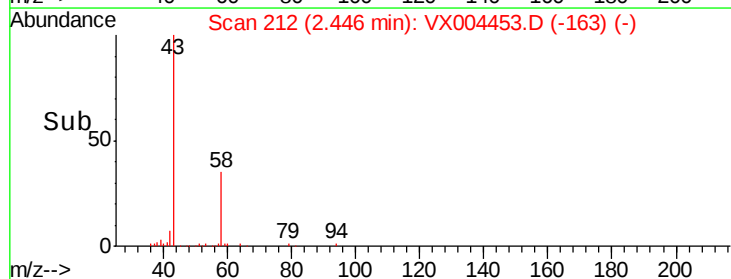
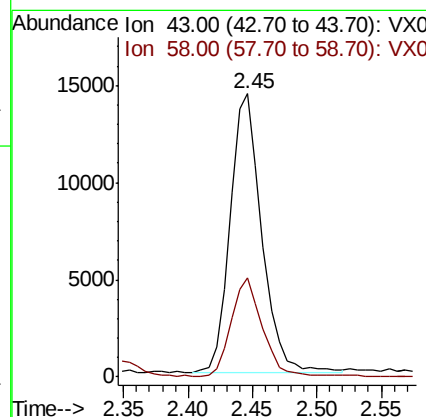
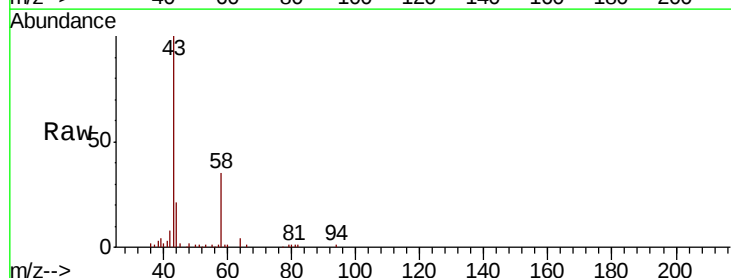
Instrument :
MSVOA_X
ClientSampleId :
PB112704ZHE#10

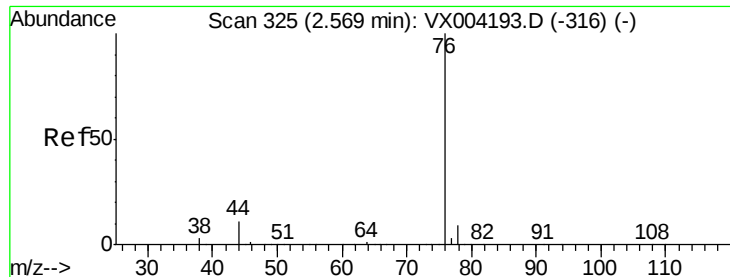
Tot Ion: 56 Resp: 294
Ion Ratio Lower Upper
56 100
55 48.0 54.7 82.1#



#16
Acetone
Concen: 8.14 ug/l
RT: 2.45 min Scan# 212
Delta R.T. 0.00 min
Lab File: VX004453.D
Acq: 10 Sep 2018 17:14

Tgt Ion: 43 Resp: 24759
Ion Ratio Lower Upper
43 100
58 35.4 26.2 39.4





#17

Carbon Disulfide

Concen: 0.86 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX004453.D

Acq: 10 Sep 2018 17:14

Instrument :

MSVOA_X

ClientSampleId :

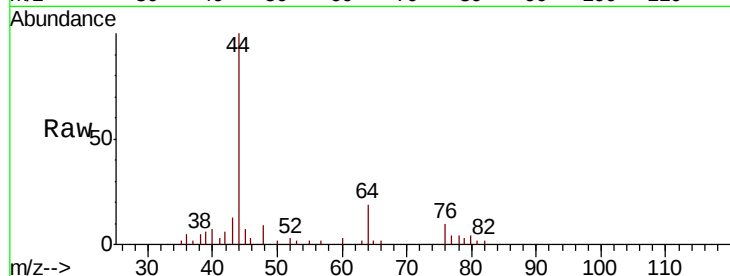
PB112704ZHE#10

Tot Ion: 76 Resp: 534

Ion Ratio Lower Upper

76 100

78 9.6 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

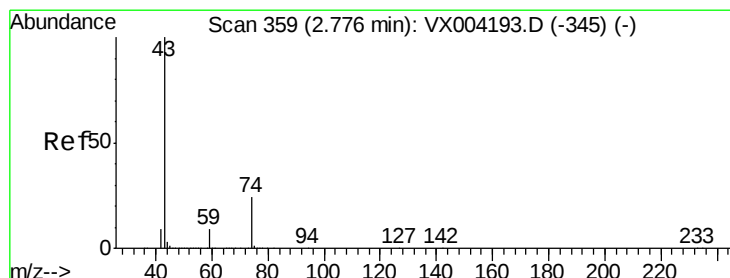
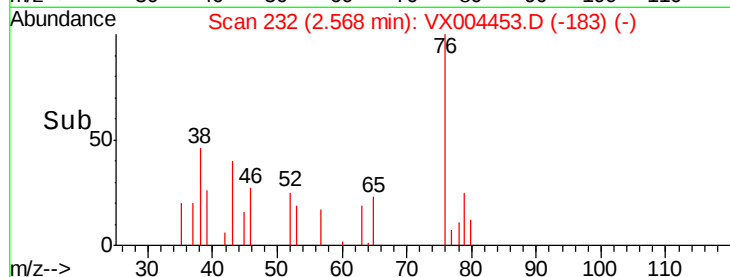
300

200

100

0

Time-->



#18

Methyl Acetate

Concen: 2.15 ug/l

RT: 2.78 min Scan# 266

Delta R.T. -0.00 min

Lab File: VX004453.D

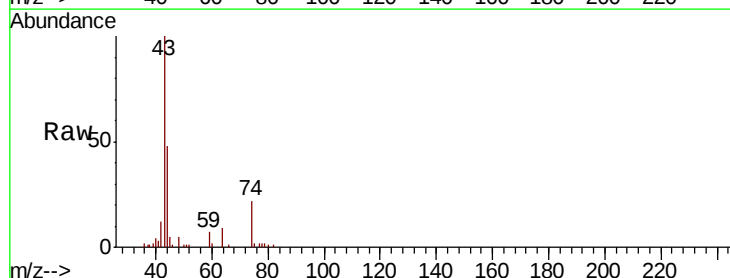
Acq: 10 Sep 2018 17:14

Tgt Ion: 43 Resp: 12128

Ion Ratio Lower Upper

43 100

74 23.8 19.4 29.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

8000

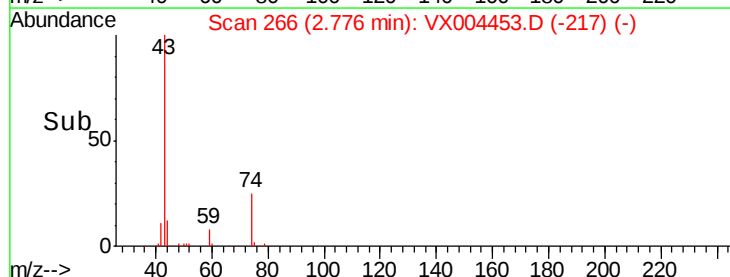
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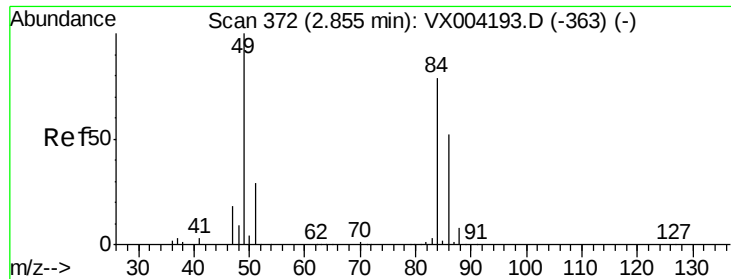
4000

2000

0

Time-->

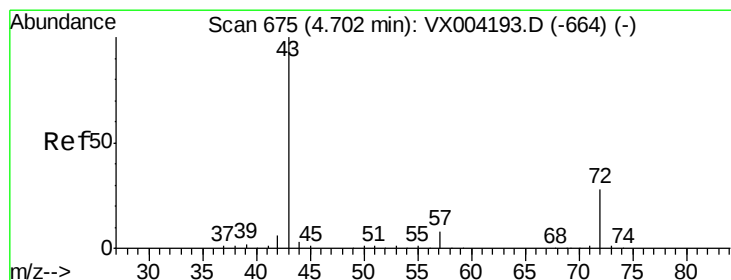
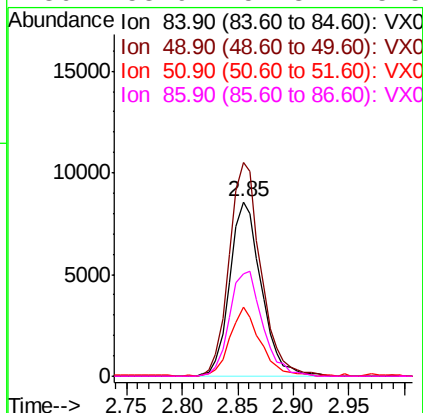
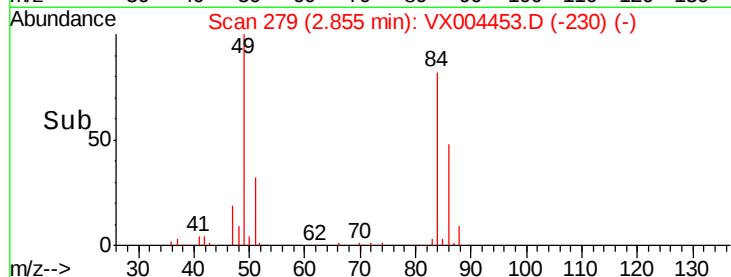
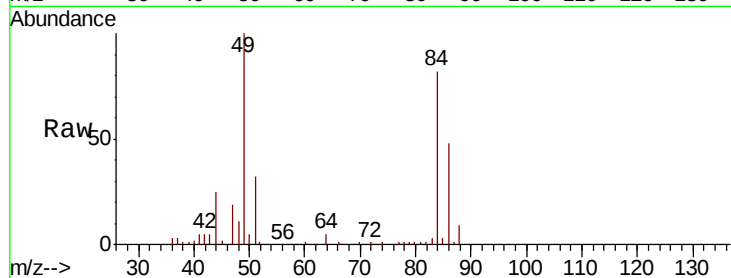




#20
Methvlene Chloride
Concen: 4.62 ua/l
RT: 2.85 min Scan# 279
Delta R.T. -0.00 min
Lab File: VX004453.D
Acq: 10 Sep 2018 17:14

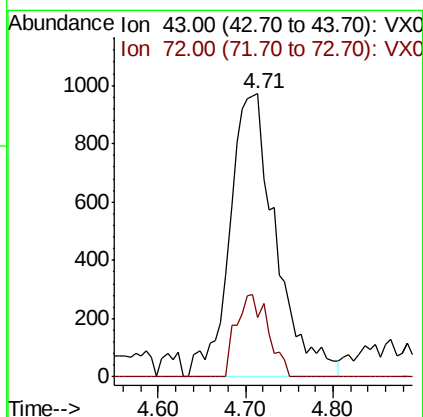
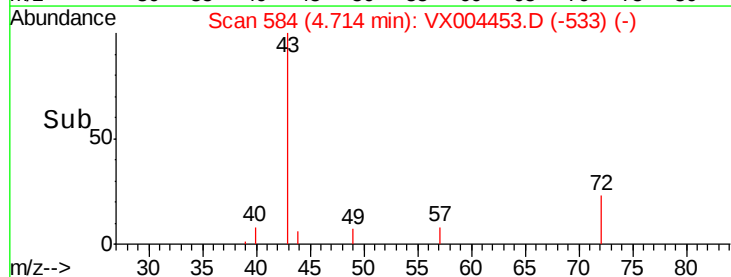
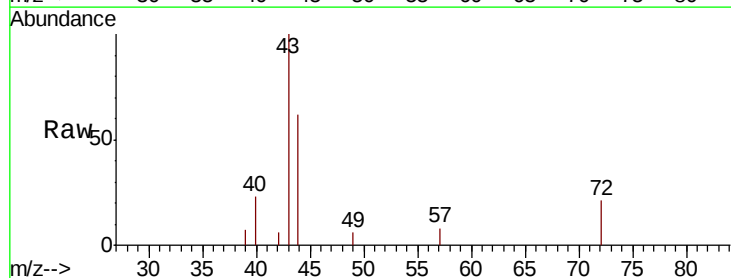
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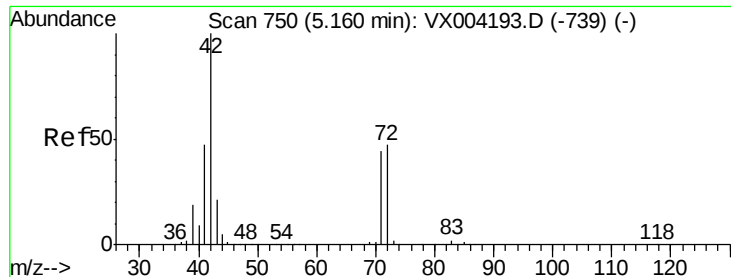
Tot Ion: 84 Resp: 16893
Ion Ratio Lower Upper
84 100
49 122.6 101.2 151.8
51 39.7 29.5 44.3
86 58.9 52.3 78.5



#25
2-Butanone
Concen: Below Cal
RT: 4.71 min Scan# 584
Delta R.T. 0.01 min
Lab File: VX004453.D
Acq: 10 Sep 2018 17:14

Tgt Ion: 43 Resp: 3573
Ion Ratio Lower Upper
43 100
72 20.9 22.0 33.0#





#29

Tetrahydrofuran

Concen: 0.93 ug/l

RT: 5.18 min Scan# 661

Delta R.T. 0.02 min

Lab File: VX004453.D

Acq: 10 Sep 2018 17:14

Instrument :

MSVOA_X

ClientSampleId :

PB112704ZHE#10

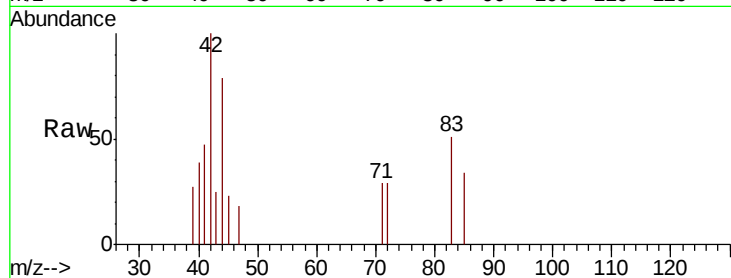
Tot Ion: 42 Resp: 1526

Ion Ratio Lower Upper

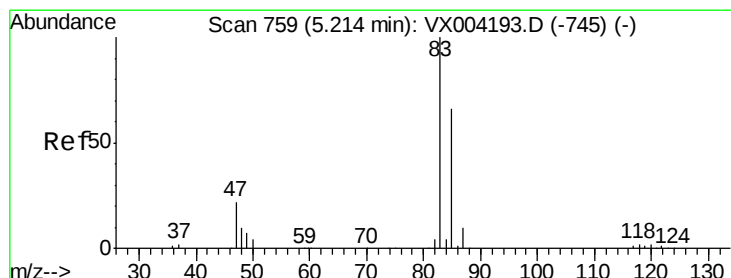
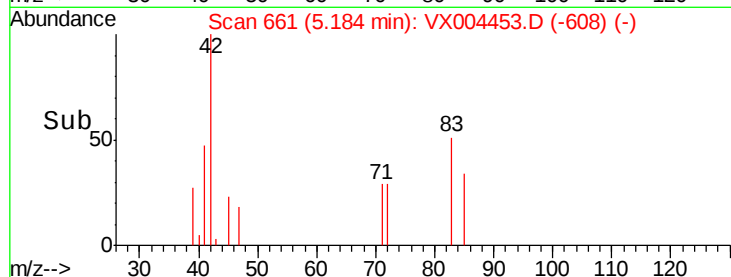
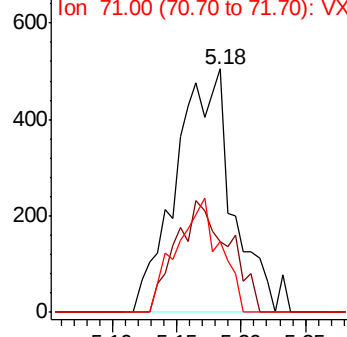
42 100

72 43.3 37.4 56.0

71 36.4 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: 0.43 ug/l

RT: 5.21 min Scan# 665

Delta R.T. -0.01 min

Lab File: VX004453.D

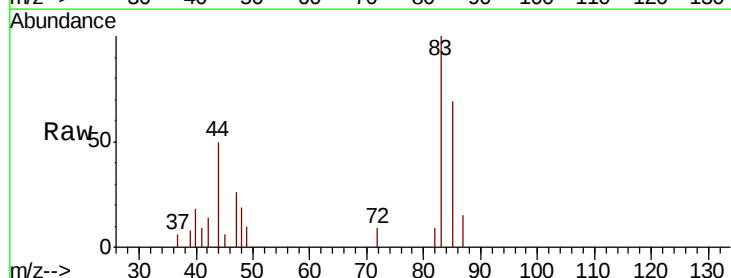
Acq: 10 Sep 2018 17:14

Tgt Ion: 83 Resp: 2689

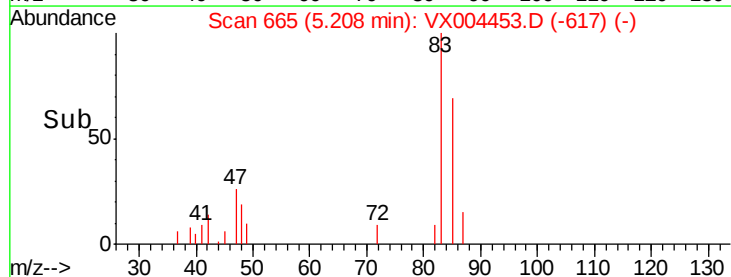
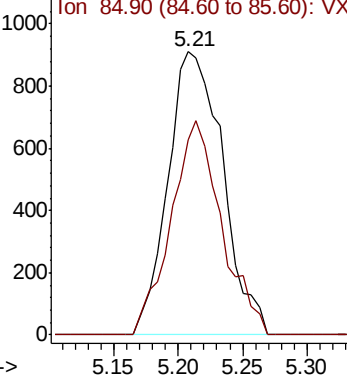
Ion Ratio Lower Upper

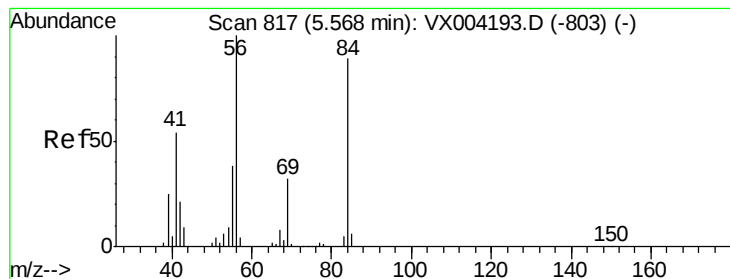
83 100

85 69.1 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: 0.92 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.09 min

Lab File: VX004453.D

Acq: 10 Sep 2018 17:14

Instrument :

MSVOA_X

ClientSampleId :

PB112704ZHE#10

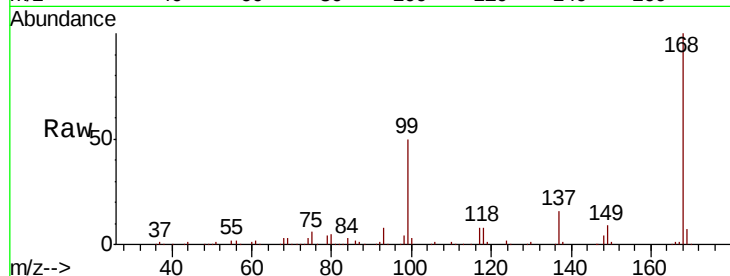
Tot Ion: 56 Resp: 4920

Ion Ratio Lower Upper

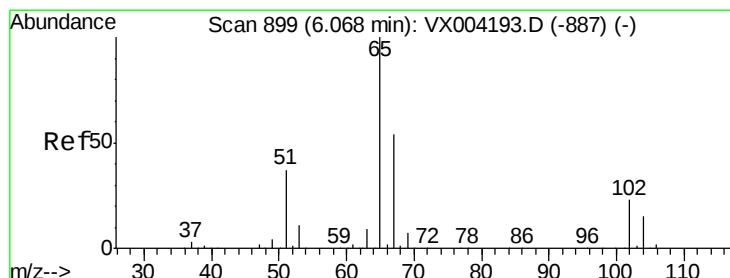
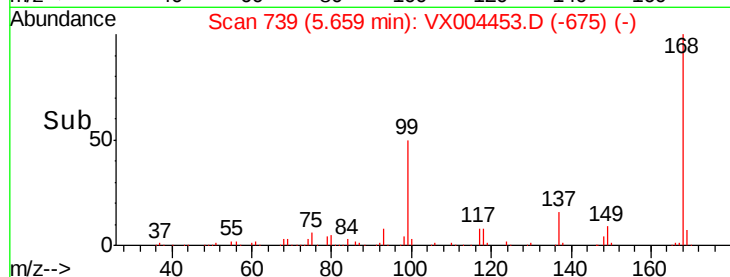
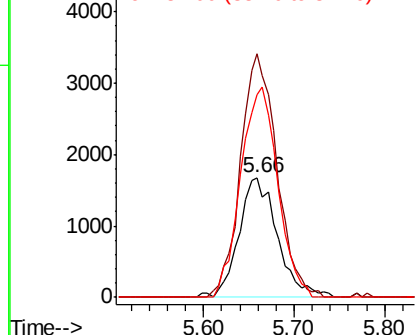
56 100

69 203.6 25.4 38.2#

84 169.1 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: 55.02 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX004453.D

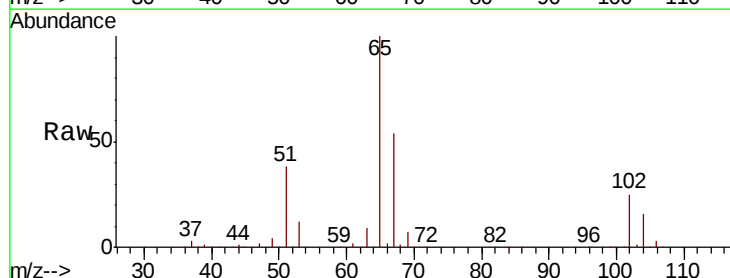
Acq: 10 Sep 2018 17:14

Tgt Ion: 65 Resp: 209176

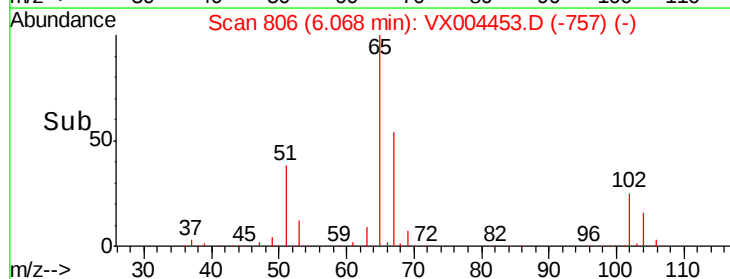
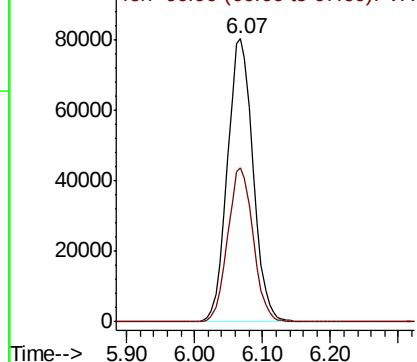
Ion Ratio Lower Upper

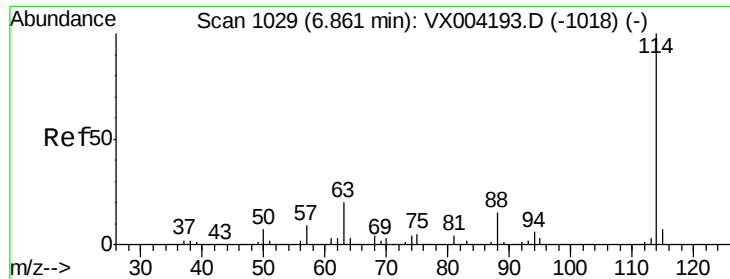
65 100

67 53.9 0.0 106.8



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

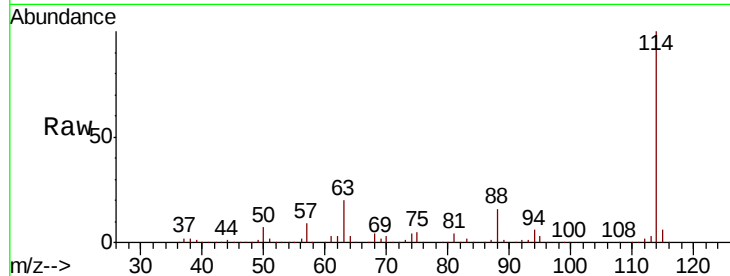




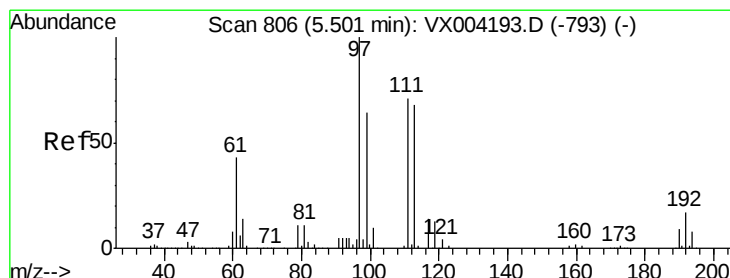
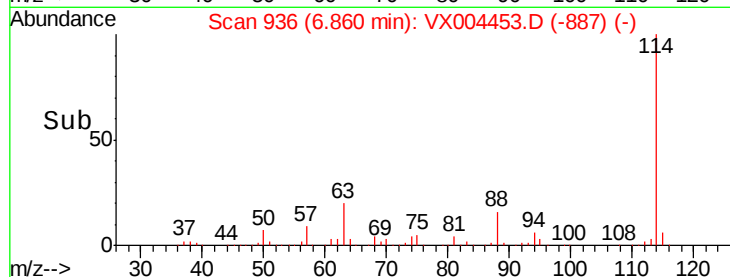
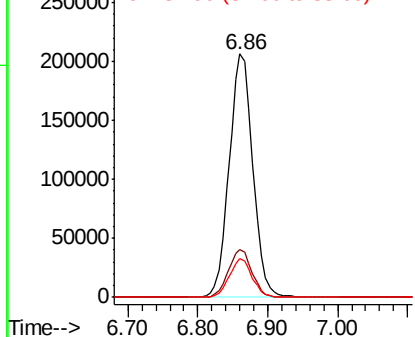
#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.86 min Scan# 936
Delta R.T. -0.00 min
Lab File: VX004453.D
Acq: 10 Sep 2018 17:14

Instrument :
MSVOA_X
ClientSampleId :
PB112704ZHE#10

Tot Ion:114 Resp: 485362
Ion Ratio Lower Upper
114 100
63 19.7 0.0 39.0
88 15.8 0.0 30.4

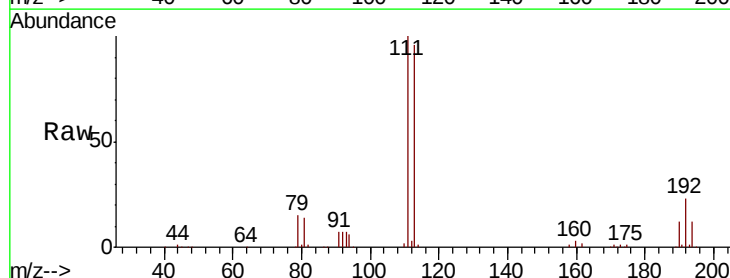


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

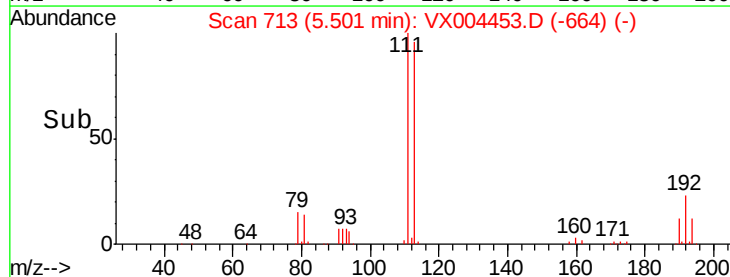
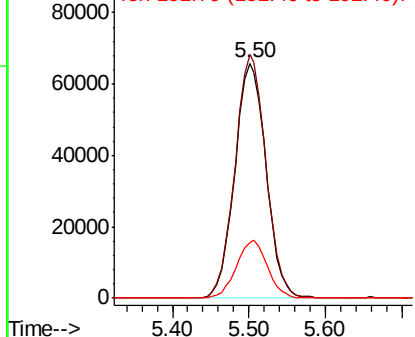


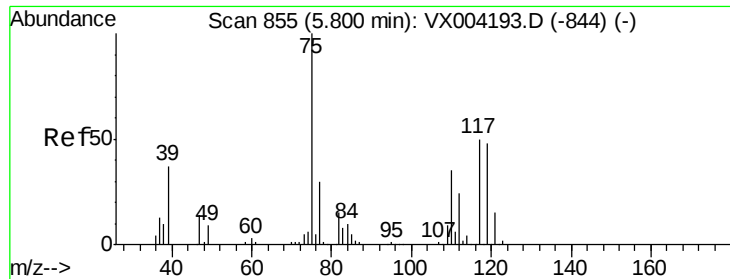
#35
Dibromofluoromethane
Concen: 51.64 ug/l
RT: 5.50 min Scan# 713
Delta R.T. -0.00 min
Lab File: VX004453.D
Acq: 10 Sep 2018 17:14

Tgt Ion:113 Resp: 186476
Ion Ratio Lower Upper
113 100
111 102.6 82.4 123.6
192 24.4 19.4 29.2



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: 3.50 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX004453.D

Acq: 10 Sep 2018 17:14

Instrument :

MSVOA_X

ClientSampleId :

PB112704ZHE#10

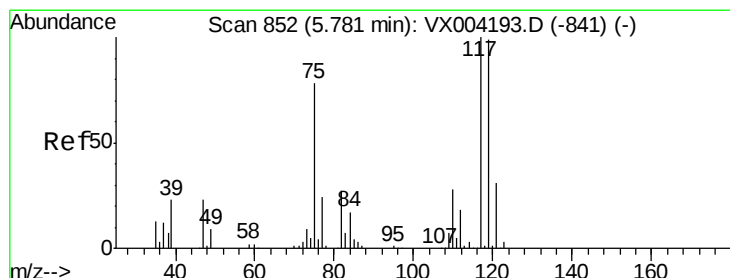
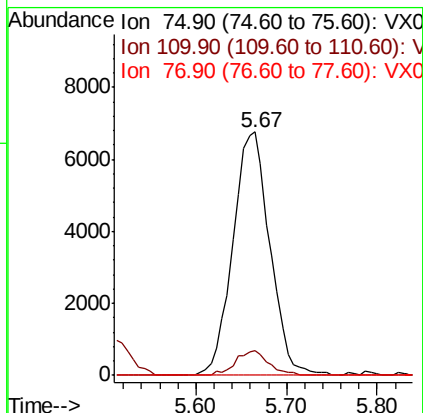
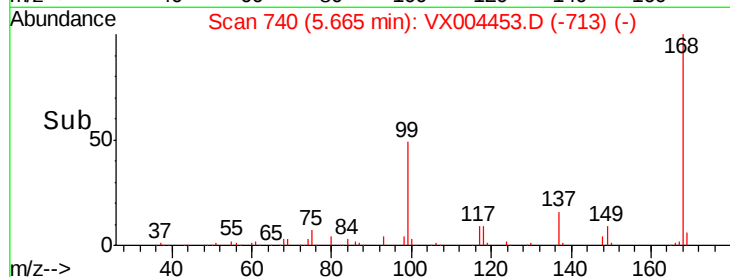
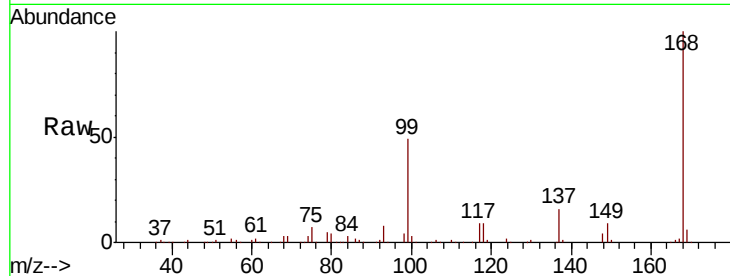
Tot Ion: 75 Resp: 19117

Ion Ratio Lower Upper

75 100

110 9.0 18.0 54.0#

77 0.0 24.6 36.8#



#38

Carbon Tetrachloride

Concen: 4.90 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX004453.D

Acq: 10 Sep 2018 17:14

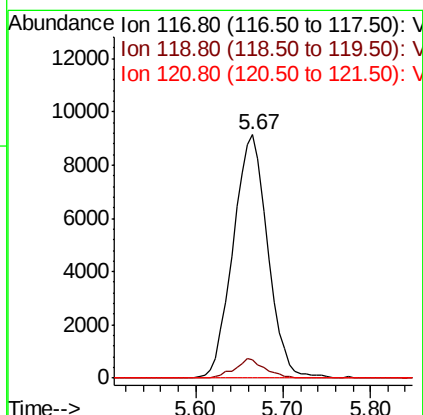
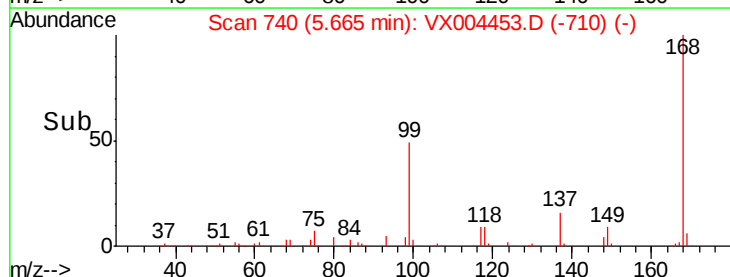
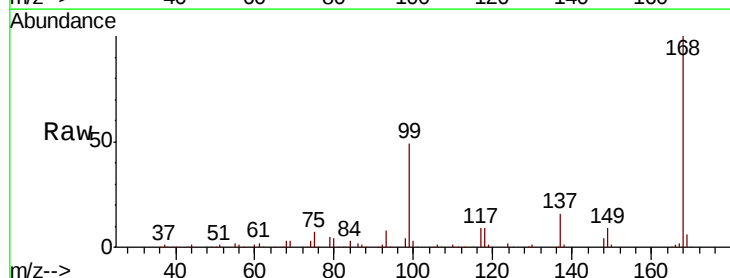
Tgt Ion: 117 Resp: 25131

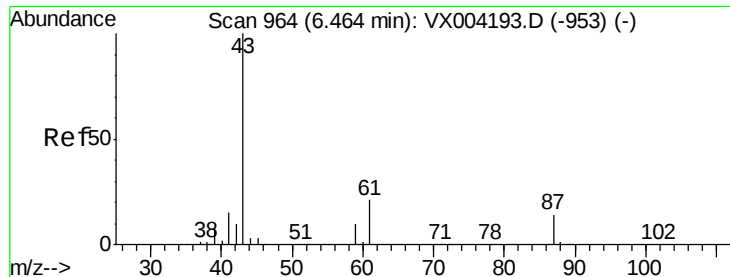
Ion Ratio Lower Upper

117 100

119 7.6 78.8 118.2#

121 0.0 24.9 37.3#



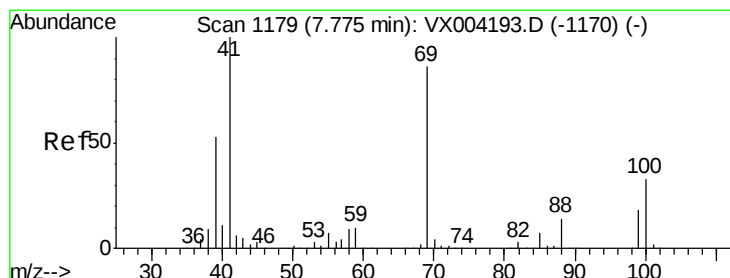
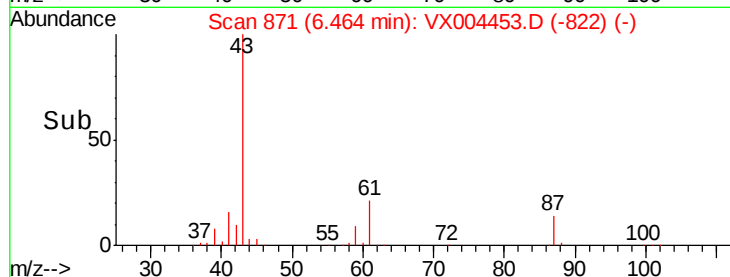
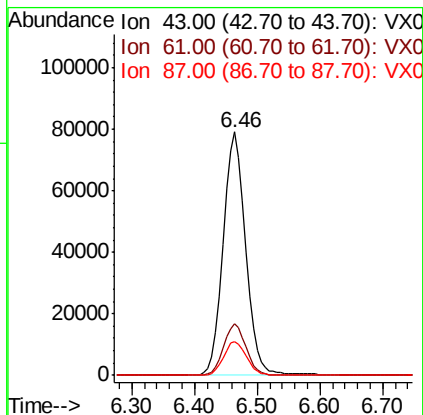
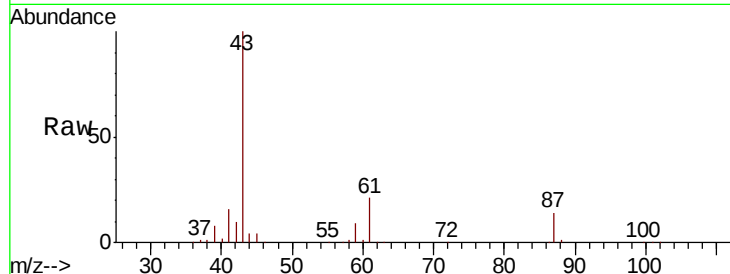


#43

Isopropyl Acetate
 Concen: 23.83 ug/l
 RT: 6.46 min Scan# 871
 Delta R.T. -0.00 min
 Lab File: VX004453.D
 Acq: 10 Sep 2018 17:14

Instrument :
 MSVOA_X
 ClientSampleId :
 PB112704ZHE#10

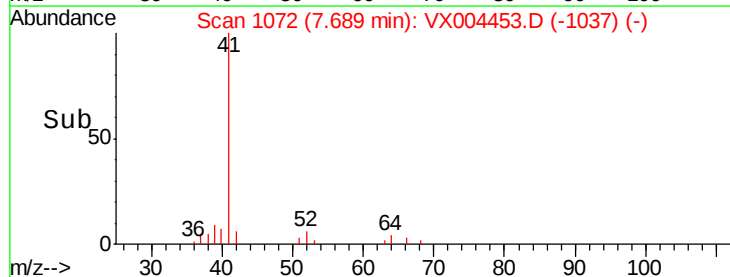
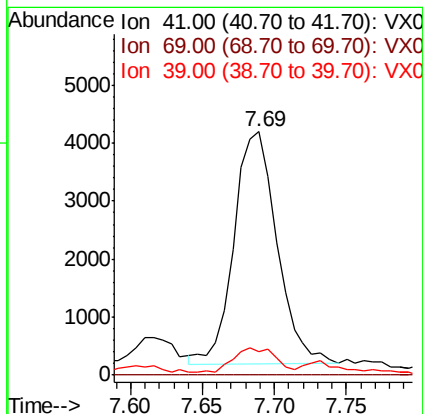
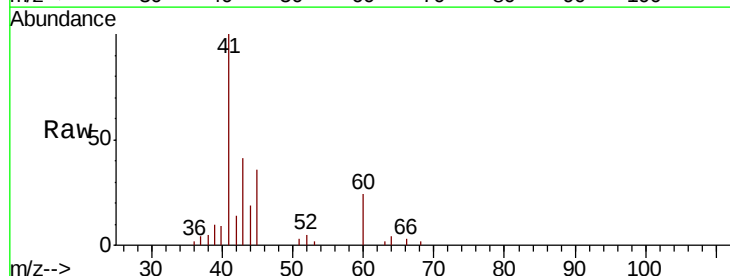
Tot Ion	43	Resp	196507
Ion Ratio	Lower	Upper	
43	100		
61	21.2	17.0	25.4
87	13.9	11.4	17.2

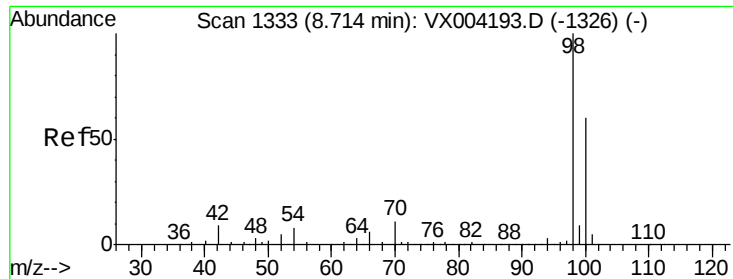


#48

Methyl methacrylate
 Concen: 1.89 ug/l
 RT: 7.69 min Scan# 1072
 Delta R.T. -0.09 min
 Lab File: VX004453.D
 Acq: 10 Sep 2018 17:14

Tgt Ion	41	Resp	8361
Ion Ratio	Lower	Upper	
41	100		
69	0.0	70.2	105.4#
39	12.4	42.7	64.1#





#50

Toluene-d8

Concen: 51.35 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX004453.D

Acq: 10 Sep 2018 17:14

Instrument :

MSVOA_X

ClientSampleId :

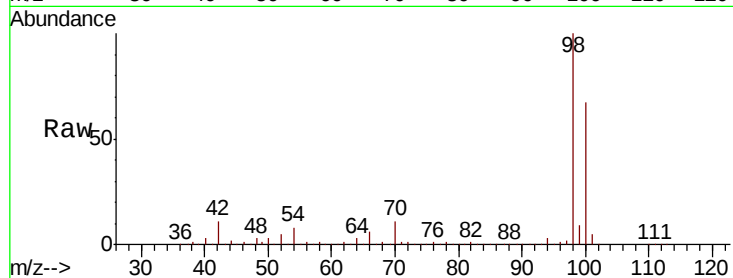
PB112704ZHE#10

Tot Ion: 98 Resp: 699906

Ion Ratio Lower Upper

98 100

100 65.9 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

8.71

400000

300000

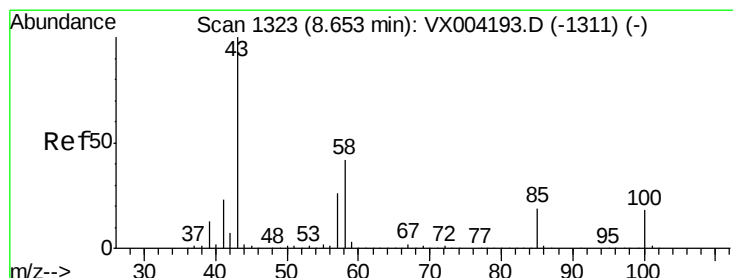
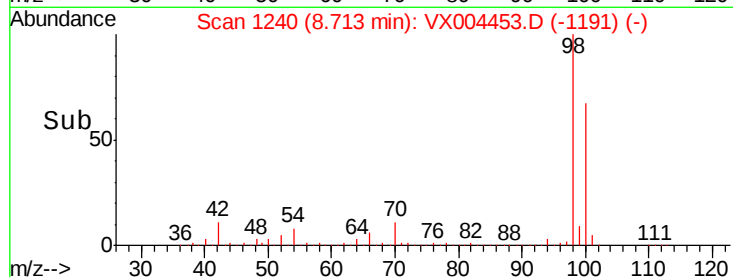
200000

100000

0

Time-->

8.60 8.70 8.80 8.90



#51

4-Methyl-2-Pentanone

Concen: 0.53 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. -0.03 min

Lab File: VX004453.D

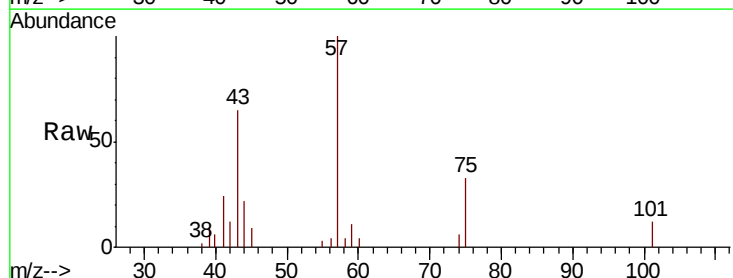
Acq: 10 Sep 2018 17:14

Tgt Ion: 43 Resp: 3201

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

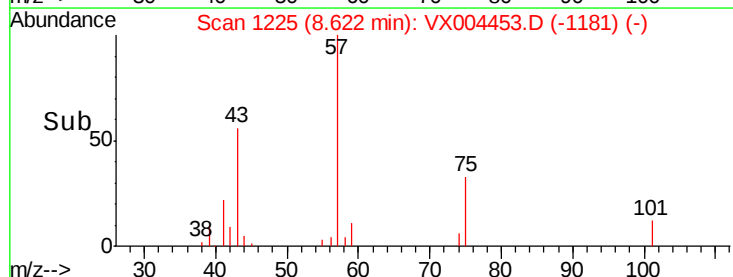
1000

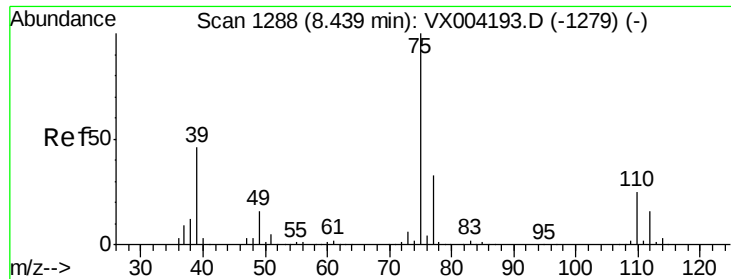
500

0

Time-->

8.55 8.60 8.65

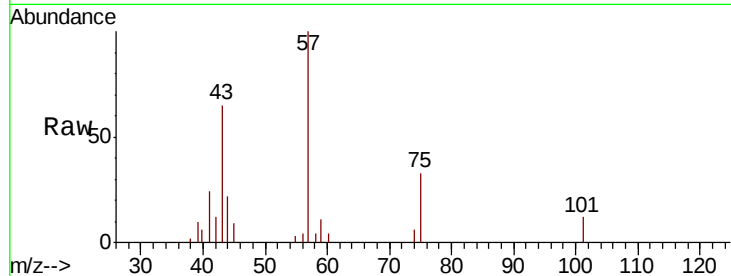




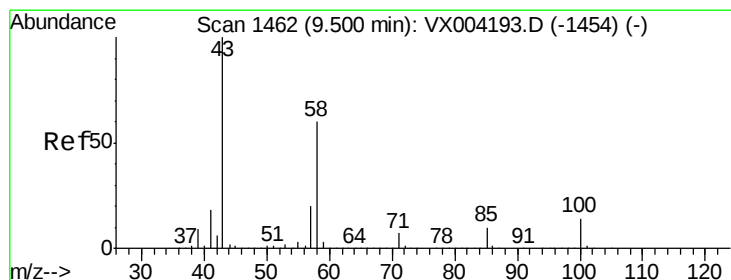
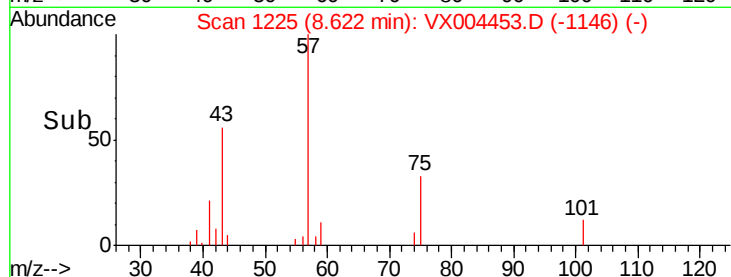
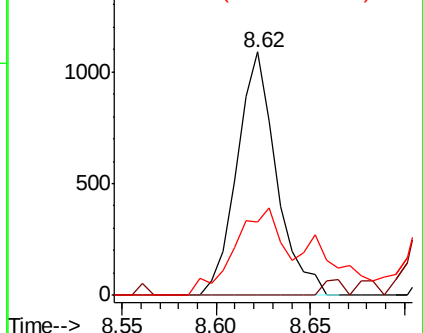
#54
 cis-1,3-Dichloropropene
 Concen: 0.26 ug/l
 RT: 8.62 min Scan# 1225
 Delta R.T. 0.18 min
 Lab File: VX004453.D
 Acq: 10 Sep 2018 17:14

Instrument :
 MSVOA_X
 ClientSampleId :
 PB112704ZHE#10

Tot Ion: 75 Resp: 1579
 Ion Ratio Lower Upper
 75 100
 77 0.0 26.2 39.2#
 39 30.1 36.4 54.6#

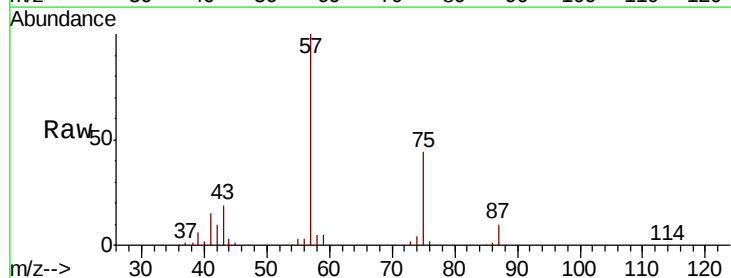


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 76.90 (76.60 to 77.60): VX0
 Ion 39.00 (38.70 to 39.70): VX0

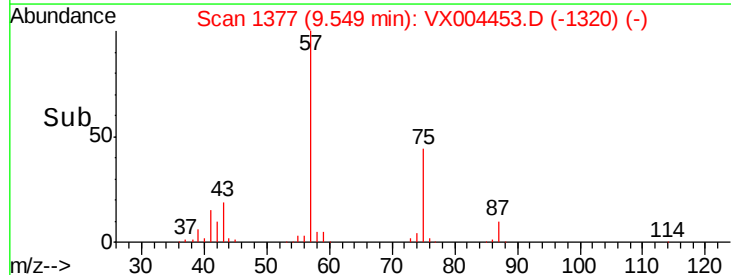
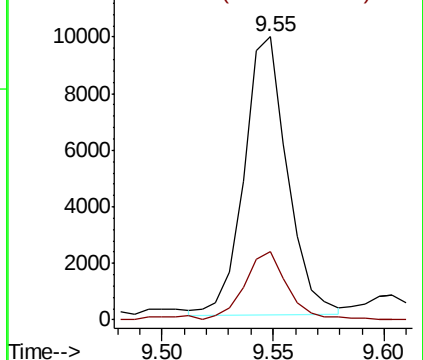


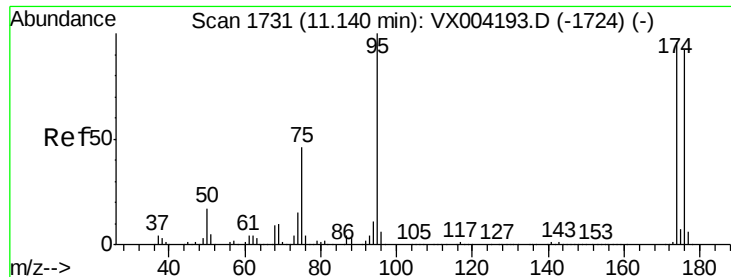
#59
 2-Hexanone
 Concen: 2.91 ug/l
 RT: 9.55 min Scan# 1377
 Delta R.T. 0.05 min
 Lab File: VX004453.D
 Acq: 10 Sep 2018 17:14

Tgt Ion: 43 Resp: 13317
 Ion Ratio Lower Upper
 43 100
 58 24.5 29.0 87.0#



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

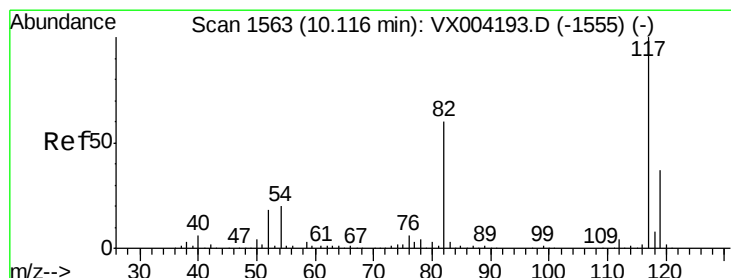
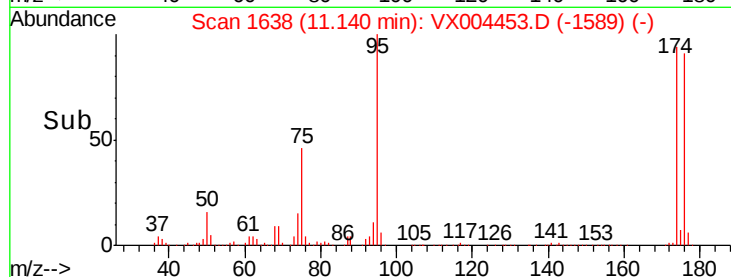
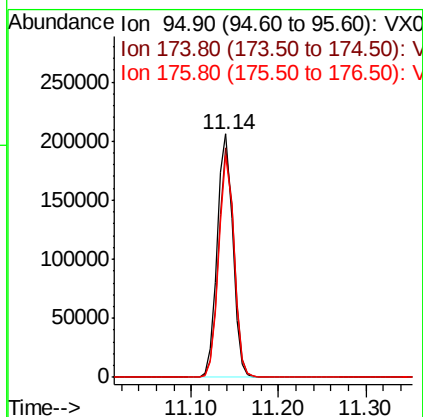
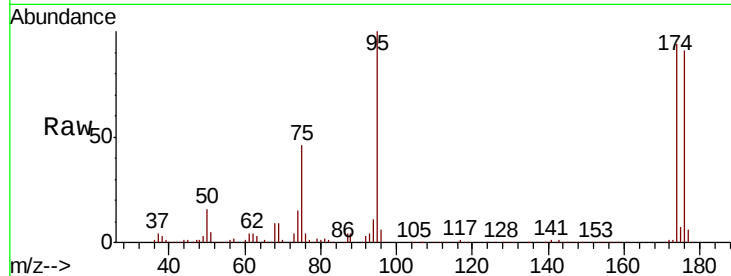




#62
 4-Bromofluorobenzene
 Concen: 49.50 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. -0.00 min
 Lab File: VX004453.D
 Acq: 10 Sep 2018 17:14

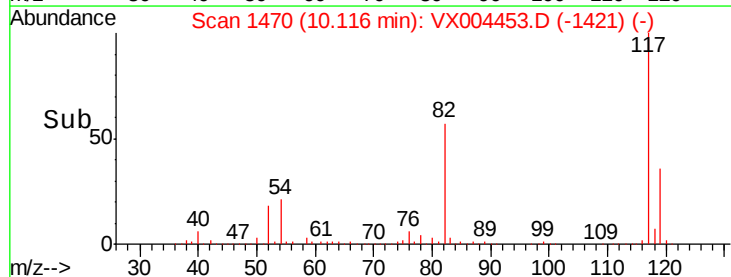
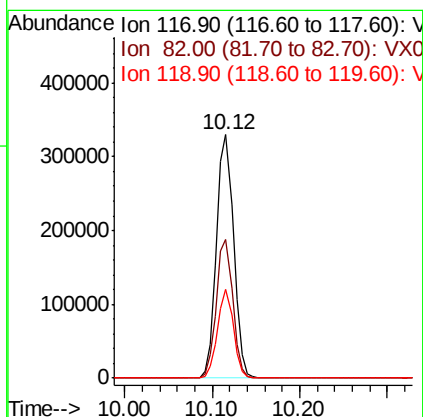
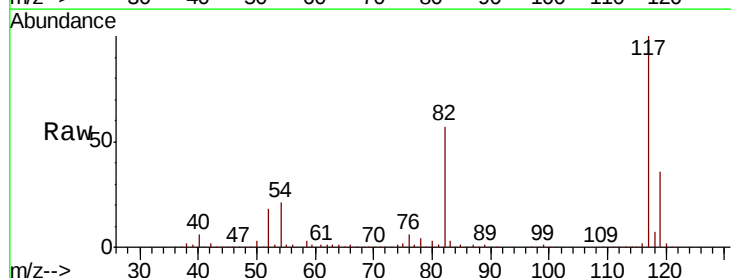
Instrument :
 MSVOA_X
 ClientSampleId :
 PB112704ZHE#10

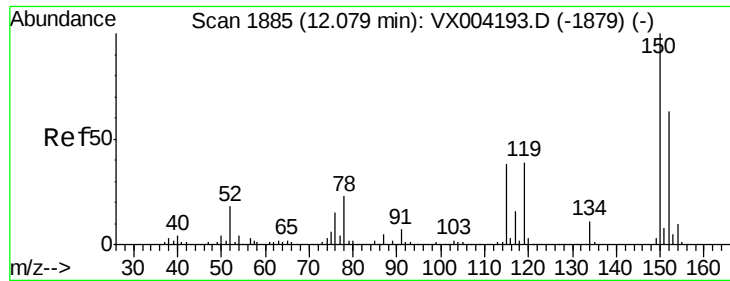
Tot Ion: 95 Resp: 251726
 Ion Ratio Lower Upper
 95 100
 174 92.9 0.0 185.2
 176 89.6 0.0 178.6



#63
 Chlorobenzene-d5
 Concen: 50.00 ug/l
 RT: 10.12 min Scan# 1470
 Delta R.T. -0.00 min
 Lab File: VX004453.D
 Acq: 10 Sep 2018 17:14

Tgt Ion: 117 Resp: 447338
 Ion Ratio Lower Upper
 117 100
 82 56.8 47.8 71.6
 119 36.4 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: VX004453.D

Acq: 10 Sep 2018 17:14

Instrument :

MSVOA_X

ClientSampleId :

PB112704ZHE#10

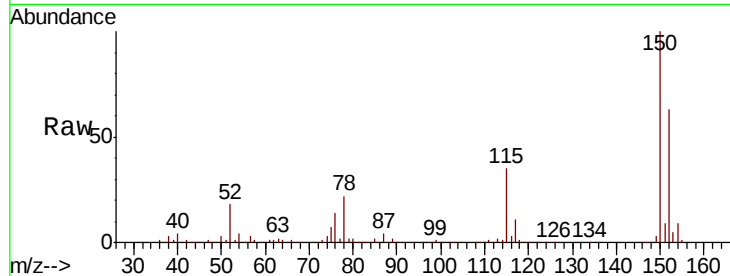
Tot Ion:152 Resp: 270338

Ion Ratio Lower Upper

152 100

115 54.2 39.0 117.0

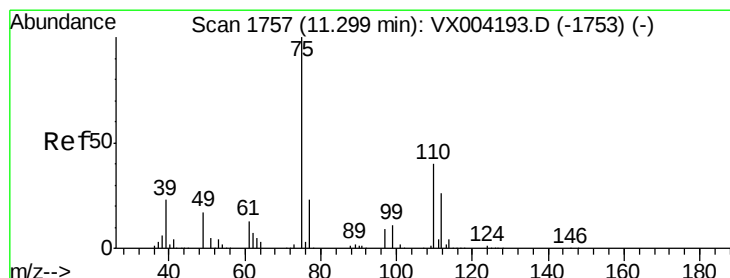
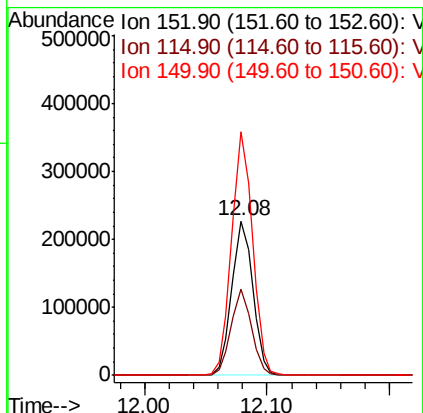
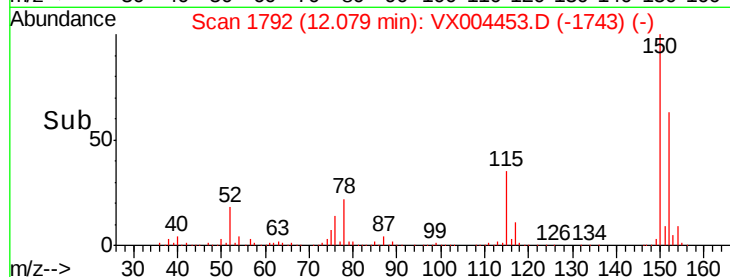
150 156.3 0.0 351.0



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: 21.27 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004453.D

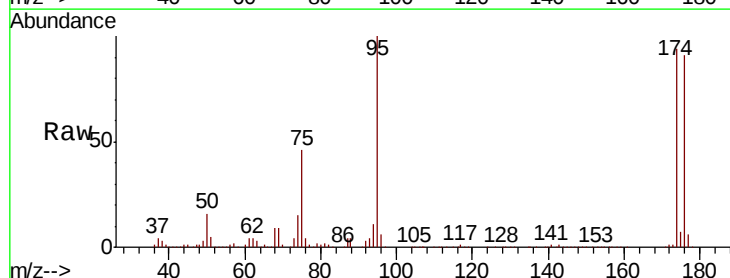
Acq: 10 Sep 2018 17:14

Tgt Ion: 75 Resp: 116935

Ion Ratio Lower Upper

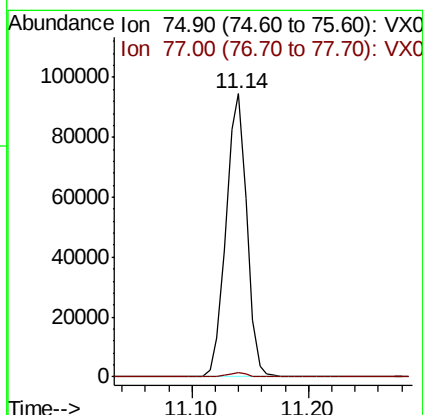
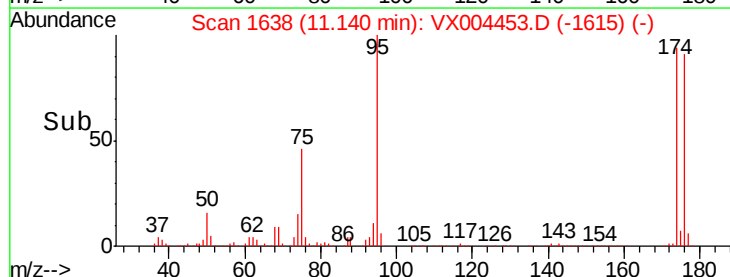
75 100

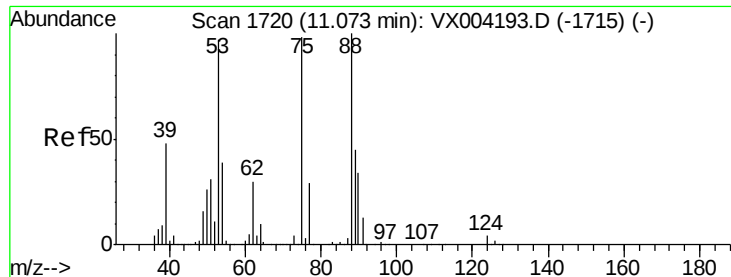
77 1.4 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 69.01 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX004453.D

Acq: 10 Sep 2018 17:14

Instrument :

MSVOA_X

ClientSampleId :

PB112704ZHE#10

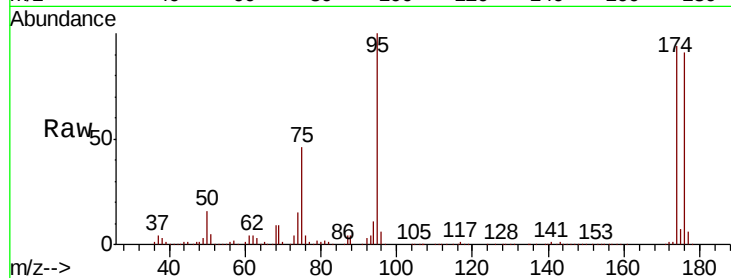
Tot Ion: 75 Resp: 116935

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

