

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091018\
 Data File : VX004456.D
 Acq On : 10 Sep 2018 18:34
 Operator : JC/MD
 Sample : PB112704ZHE#13
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB112704ZHE#13

Quant Time: Sep 11 01:22:36 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	296366	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	494296	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	472094	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	262012	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	212866	55.11	ug/l	0.00
Spiked Amount			Recovery	=	110.22%	
35) Dibromofluoromethane	5.50	113	190312	51.75	ug/l	0.00
Spiked Amount			Recovery	=	103.50%	
50) Toluene-d8	8.71	98	710798	51.21	ug/l	0.00
Spiked Amount			Recovery	=	102.42%	
62) 4-Bromofluorobenzene	11.14	95	249789	48.23	ug/l	0.00
Spiked Amount			Recovery	=	96.46%	

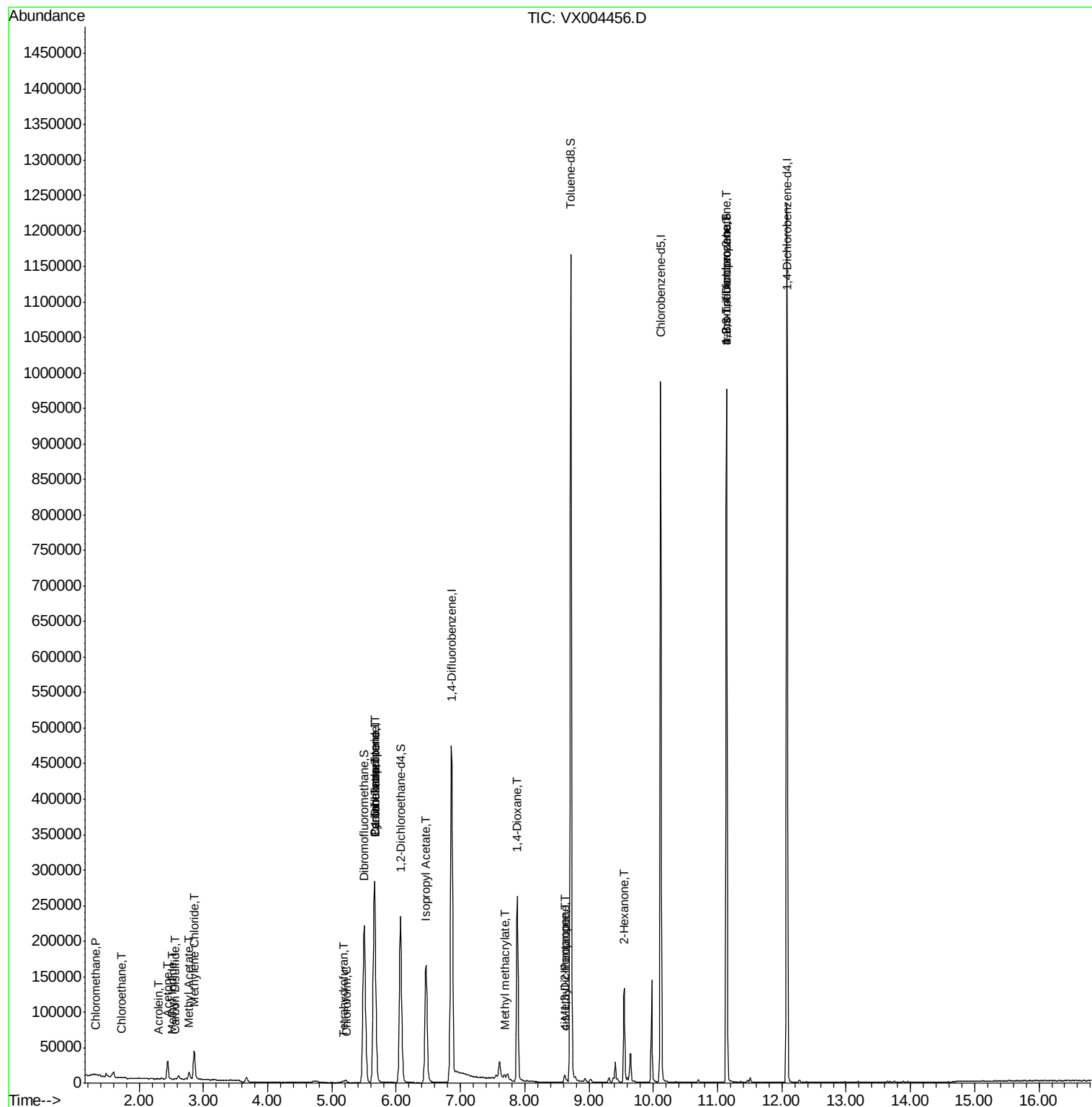
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	562	0.44	ug/l	# 73
5) Bromomethane	1.65	94	335	Below Cal		90
6) Chloroethane	1.73	64	251	1.05	ug/l	# 44
10) Methyl Iodide	2.51	142	99	4.29	ug/l	# 41
13) Acrolein	2.30	56	279	1.41	ug/l	92
16) Acetone	2.45	43	27265	9.52	ug/l	99
17) Carbon Disulfide	2.57	76	438	0.85	ug/l	99
18) Methyl Acetate	2.78	43	12881	2.25	ug/l	97
20) Methylene Chloride	2.85	84	18916	5.09	ug/l	93
25) 2-Butanone	4.70	43	3312	Below Cal		94
29) Tetrahydrofuran	5.17	42	1615	0.97	ug/l	91
30) Chloroform	5.22	83	3327	0.53	ug/l	100
31) Cyclohexane	5.67	56	4953	0.91	ug/l	# 1
36) 1,1-Dichloropropene	5.66	75	19577	3.52	ug/l	# 49
38) Carbon Tetrachloride	5.67	117	25342	4.85	ug/l	# 16
43) Isopropyl Acetate	6.46	43	213839	25.46	ug/l	99
48) Methyl methacrylate	7.69	41	9235	2.06	ug/l	# 20
49) 1,4-Dioxane	7.88	88	24	0.24	ug/l	# 1
51) 4-Methyl-2-Pentanone	8.62	43	3293	0.54	ug/l	# 47
54) cis-1,3-Dichloropropene	8.62	75	1644	0.27	ug/l	# 72
59) 2-Hexanone	9.55	43	14743	3.17	ug/l	# 55
76) 1,2,3-Trichloropropane	11.14	75	114980	21.58	ug/l	# 37
81) trans-1,4-Dichloro-2-buten	11.14	75	114980	70.01	ug/l	# 10
94) Hexachlorobutadiene	13.78	225	19	Below Cal		# 30

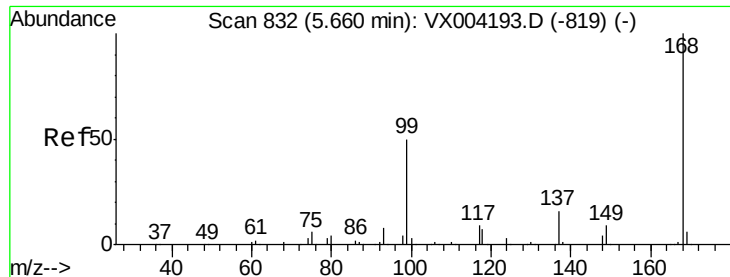
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Aug 23 05:39:44 2018
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX004456.D

Acq: 10 Sep 2018 18:34

Instrument :

MSVOA_X

ClientSampleId :

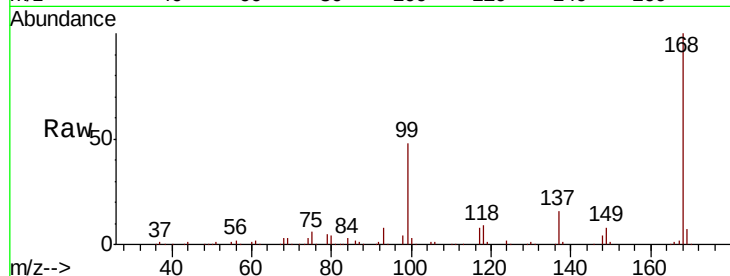
PB112704ZHE#13

Tot Ion:168 Resp: 296366

Ion Ratio Lower Upper

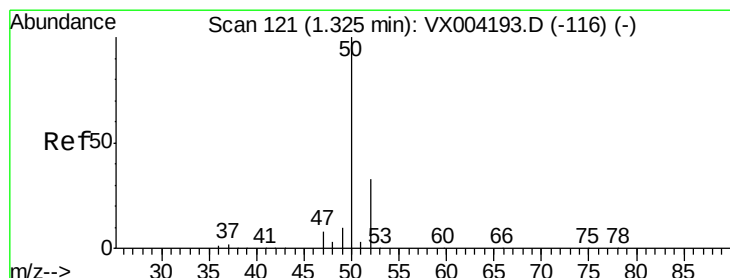
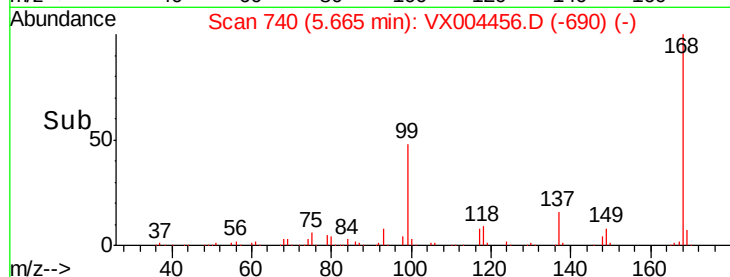
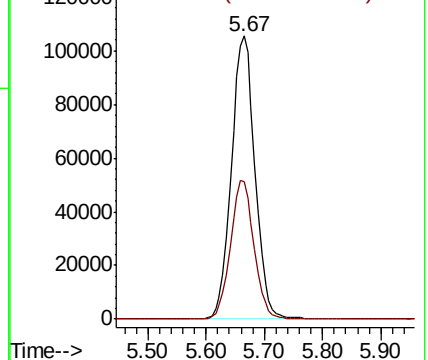
168 100

99 48.4 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.44 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX004456.D

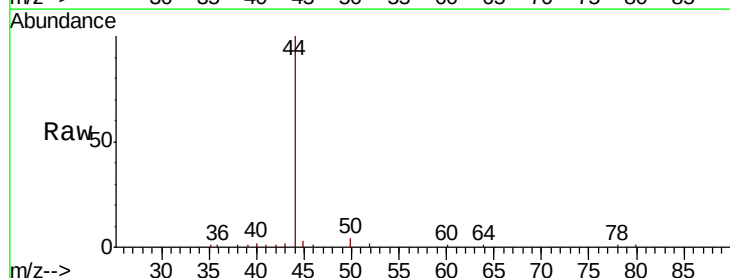
Acq: 10 Sep 2018 18:34

Tgt Ion: 50 Resp: 562

Ion Ratio Lower Upper

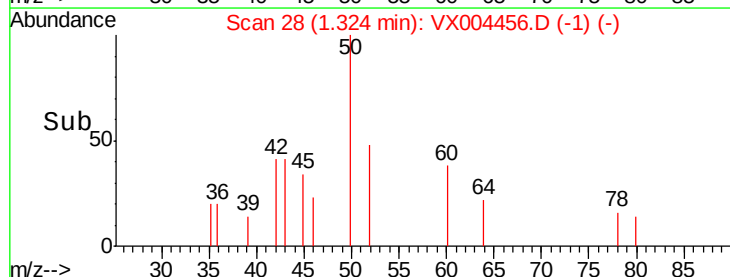
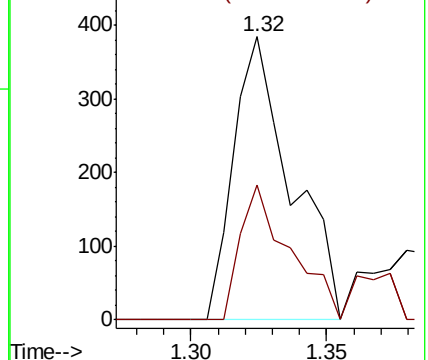
50 100

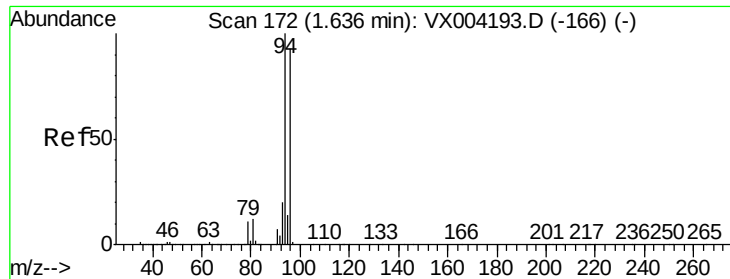
52 47.7 26.2 39.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: VX004456.D

Acq: 10 Sep 2018 18:34

Instrument :

MSVOA_X

ClientSampleId :

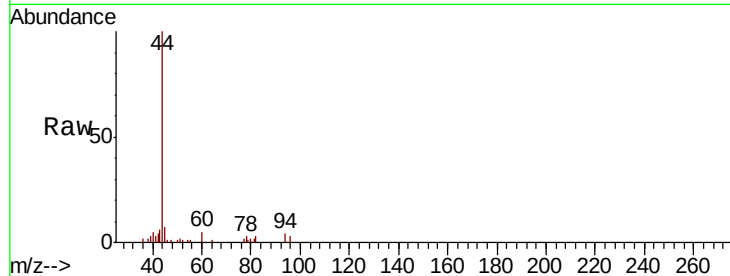
PB112704ZHE#13

Tot Ion: 94 Resp: 335

Ion Ratio Lower Upper

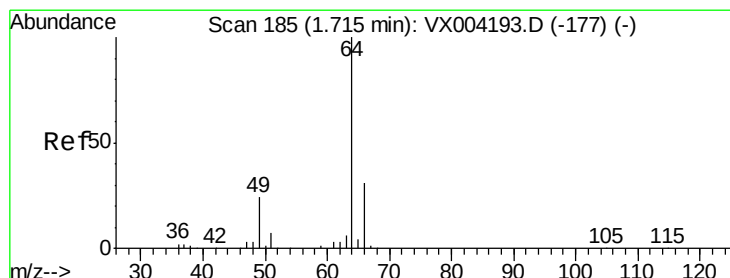
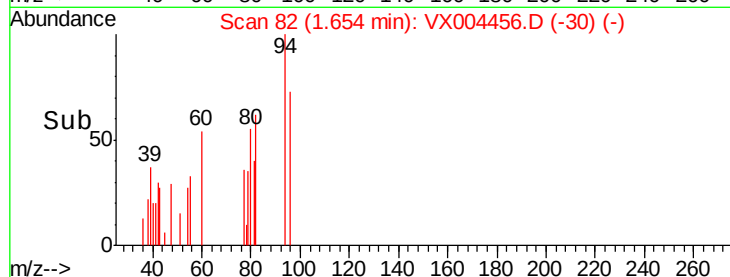
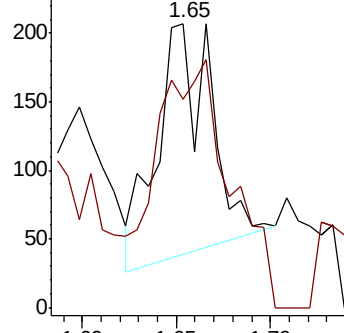
94 100

96 102.7 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: 1.05 ug/l

RT: 1.73 min Scan# 94

Delta R.T. 0.01 min

Lab File: VX004456.D

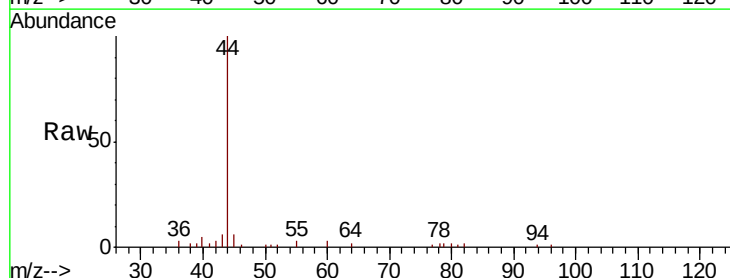
Acq: 10 Sep 2018 18:34

Tgt Ion: 64 Resp: 251

Ion Ratio Lower Upper

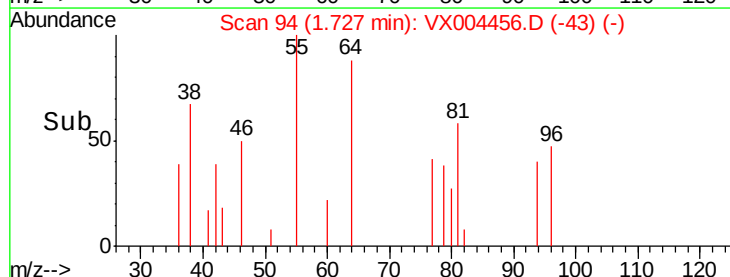
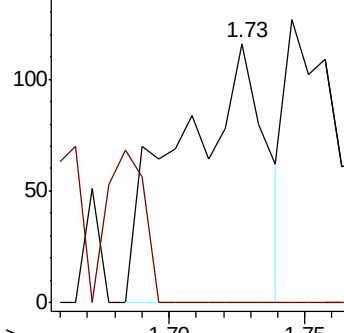
64 100

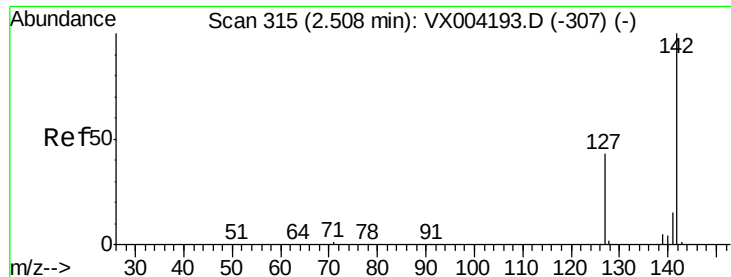
66 0.0 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

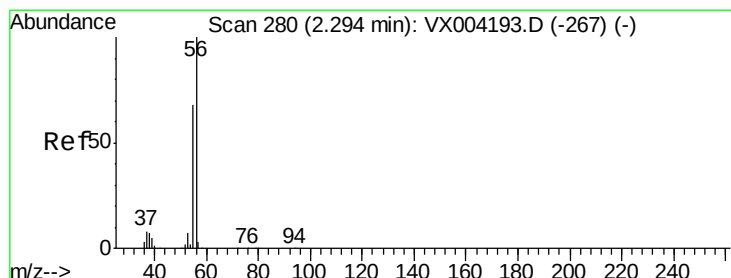
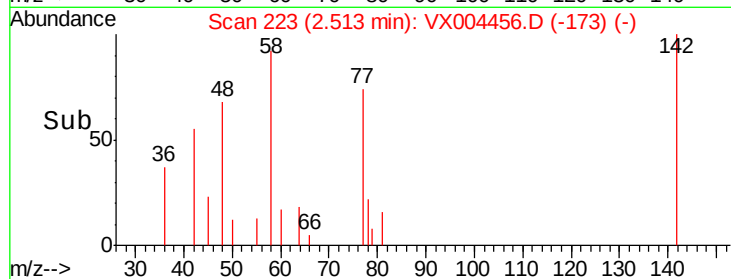
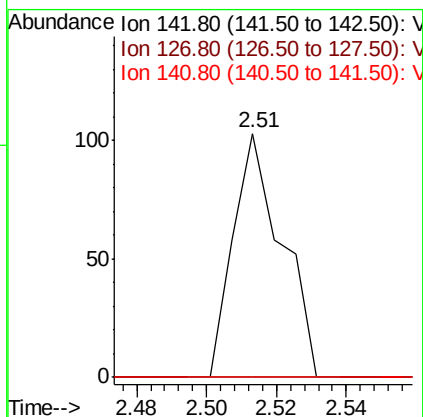
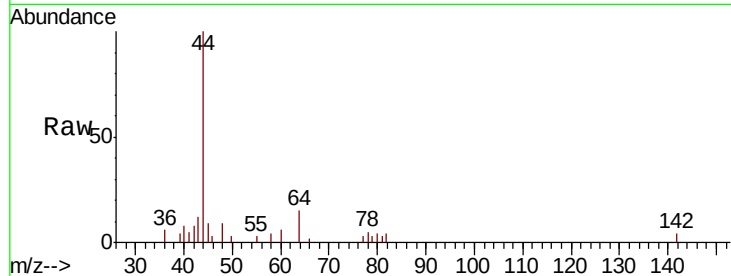




#10
Methyl Iodide
Concen: 4.29 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX004456.D
Acq: 10 Sep 2018 18:34

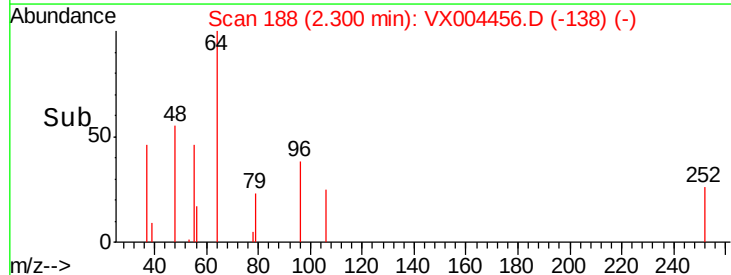
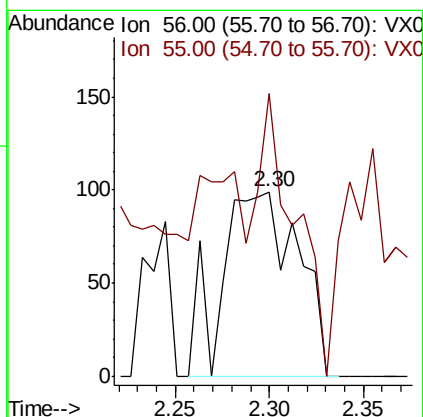
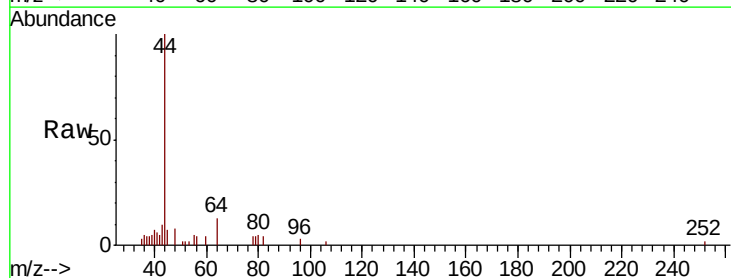
Instrument :
MSVOA_X
ClientSampleId :
PB112704ZHE#13

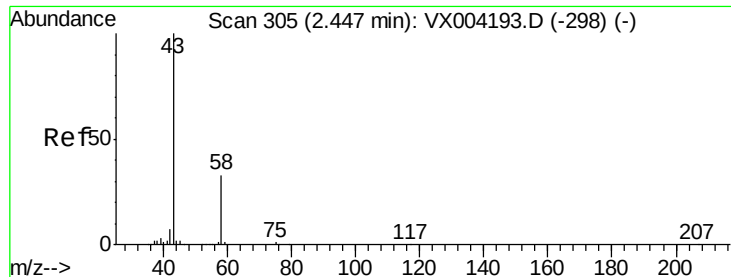
Tot Ion:142 Resp: 99
Ion Ratio Lower Upper
142 100
127 0.0 33.8 50.6#
141 0.0 11.4 17.0#



#13
Acrolein
Concen: 1.41 ug/l
RT: 2.30 min Scan# 188
Delta R.T. 0.01 min
Lab File: VX004456.D
Acq: 10 Sep 2018 18:34

Tgt Ion: 56 Resp: 279
Ion Ratio Lower Upper
56 100
55 75.3 54.7 82.1





#16

Acetone

Concen: 9.52 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX004456.D

Acq: 10 Sep 2018 18:34

Instrument :

MSVOA_X

ClientSampleId :

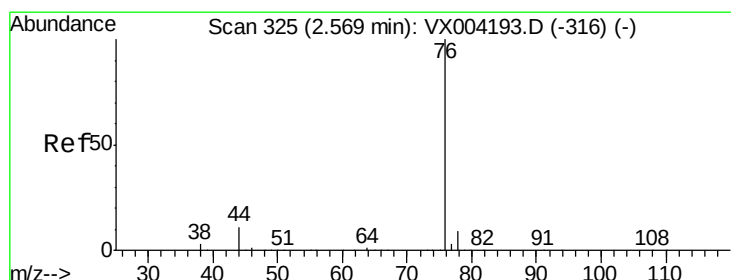
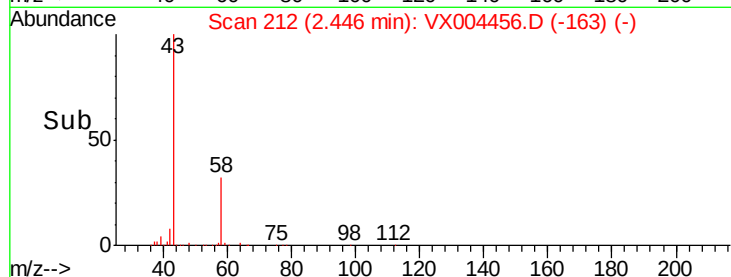
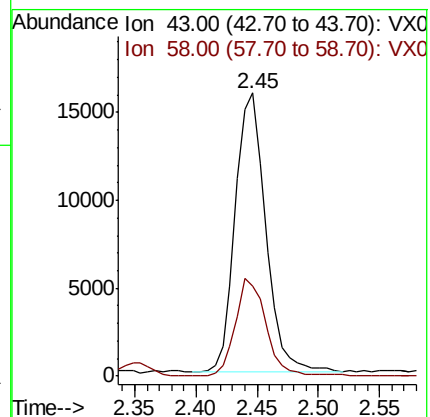
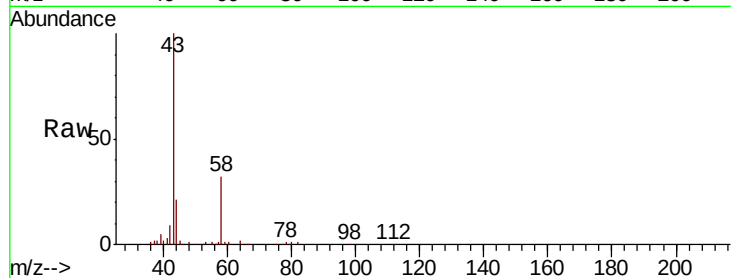
PB112704ZHE#13

Tot Ion: 43 Resp: 27265

Ion Ratio Lower Upper

43 100

58 32.5 26.2 39.4



#17

Carbon Disulfide

Concen: 0.85 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX004456.D

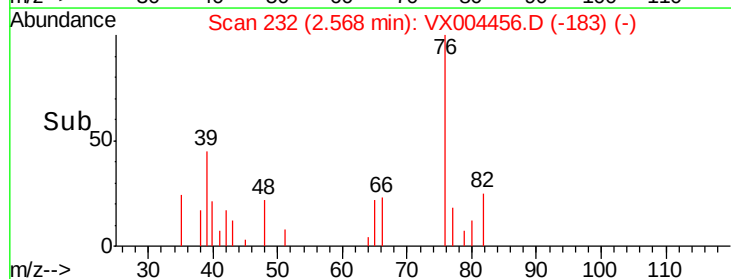
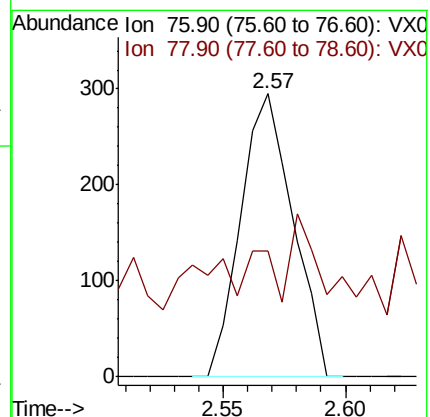
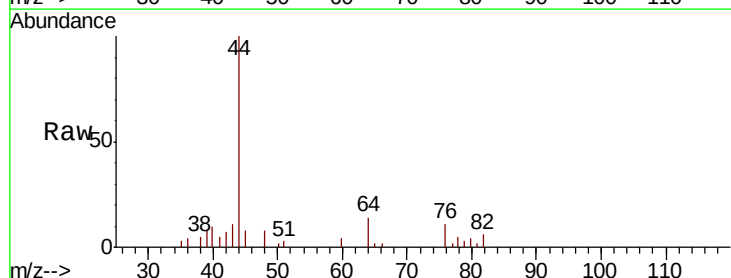
Acq: 10 Sep 2018 18:34

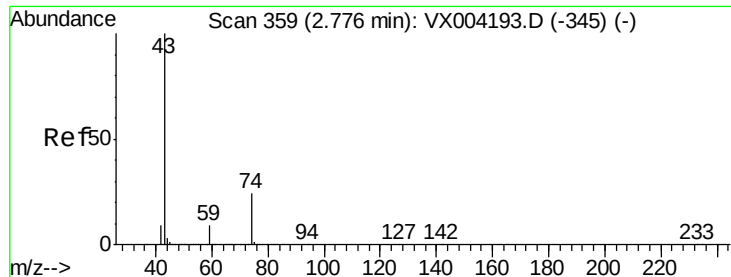
Tgt Ion: 76 Resp: 438

Ion Ratio Lower Upper

76 100

78 9.2 7.0 10.6

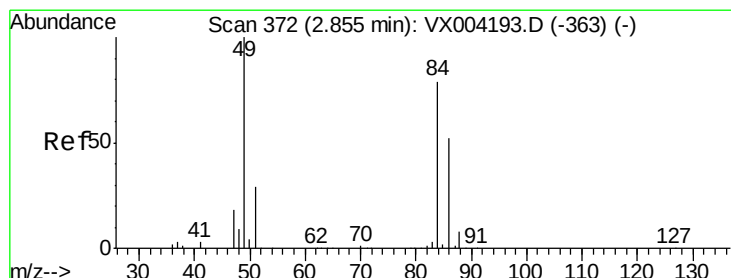
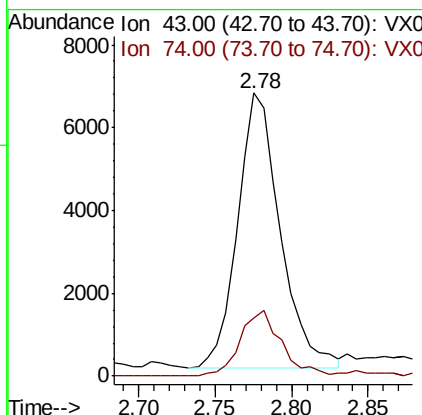
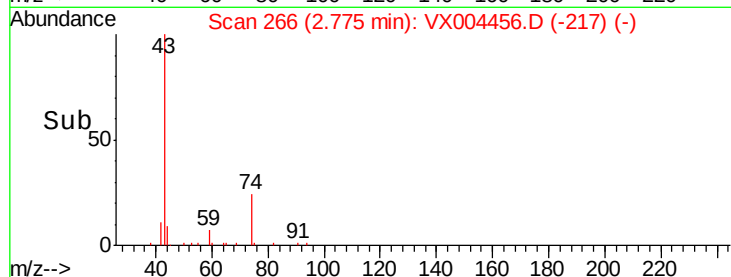
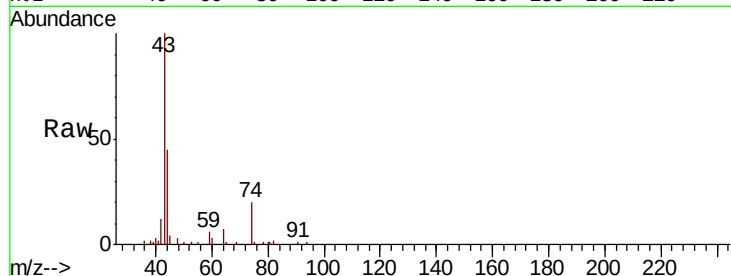




#18
Methvl Acetate
Concen: 2.25 ug/l
RT: 2.78 min Scan# 266
Delta R.T. -0.00 min
Lab File: VX004456.D
Acq: 10 Sep 2018 18:34

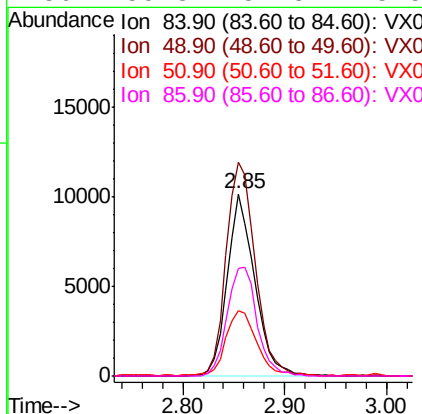
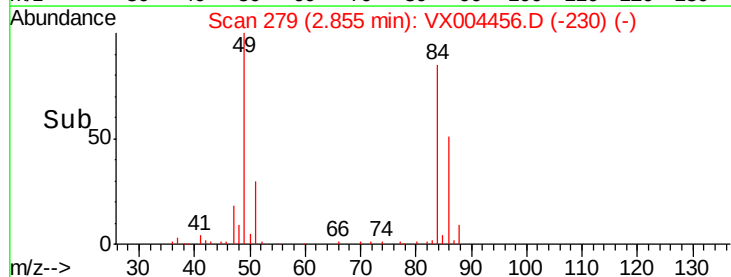
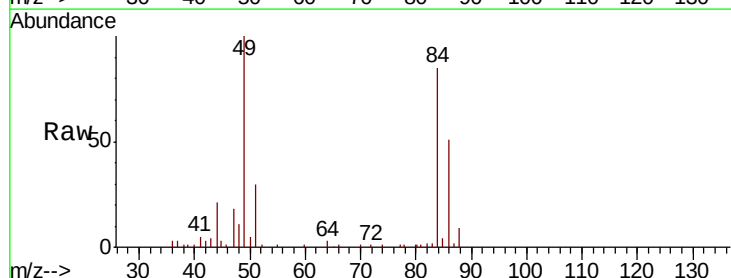
Instrument :
MSVOA_X
ClientSampleId :
PB112704ZHE#13

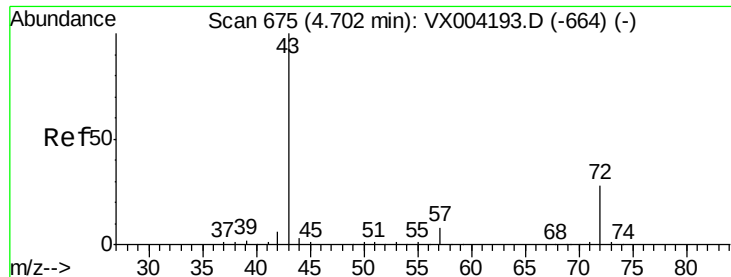
Tot Ion: 43 Resp: 12881
Ion Ratio Lower Upper
43 100
74 23.1 19.4 29.2



#20
Methylene Chloride
Concen: 5.09 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.00 min
Lab File: VX004456.D
Acq: 10 Sep 2018 18:34

Tgt Ion: 84 Resp: 18916
Ion Ratio Lower Upper
84 100
49 117.5 101.2 151.8
51 35.7 29.5 44.3
86 59.3 52.3 78.5





#25

2-Butanone

Concen: Below Cal

RT: 4.70 min Scan# 582

Delta R.T. -0.00 min

Lab File: VX004456.D

Acq: 10 Sep 2018 18:34

Instrument :

MSVOA_X

ClientSampleId :

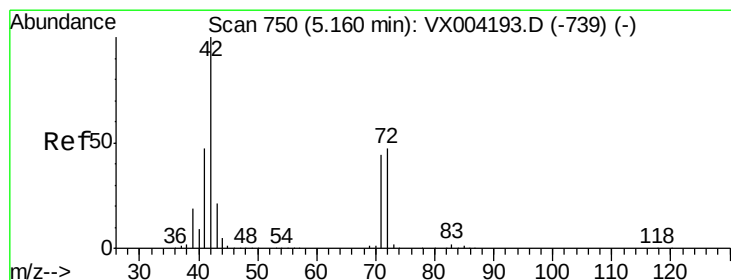
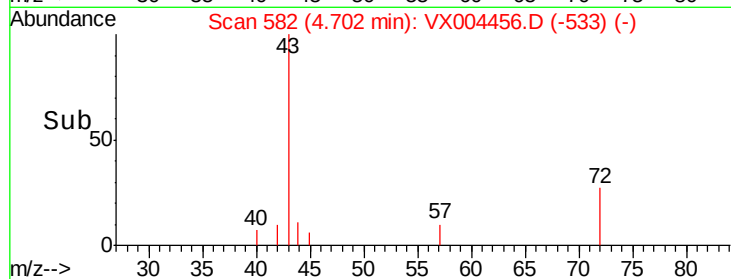
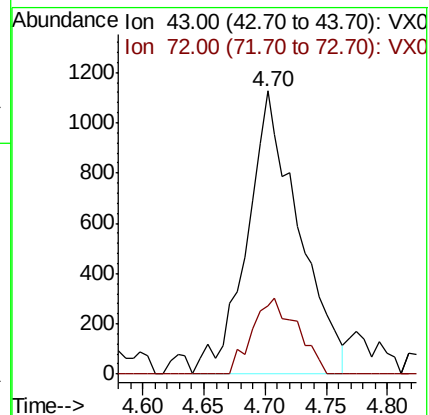
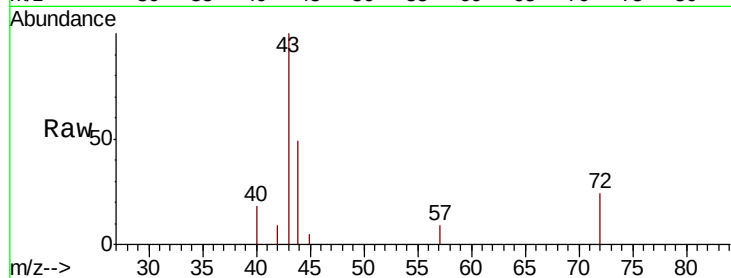
PB112704ZHE#13

Tot Ion: 43 Resp: 3312

Ion Ratio Lower Upper

43 100

72 24.2 22.0 33.0



#29

Tetrahydrofuran

Concen: 0.97 ug/l

RT: 5.17 min Scan# 659

Delta R.T. 0.01 min

Lab File: VX004456.D

Acq: 10 Sep 2018 18:34

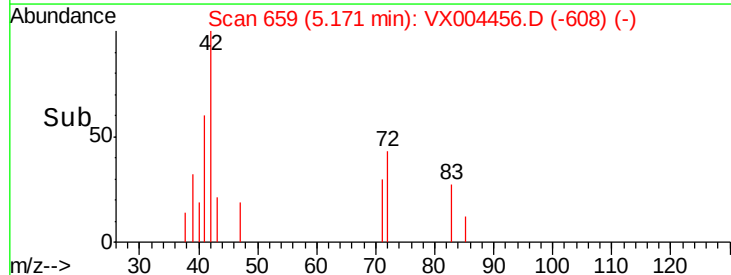
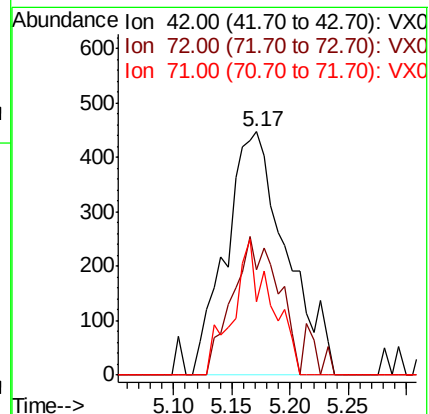
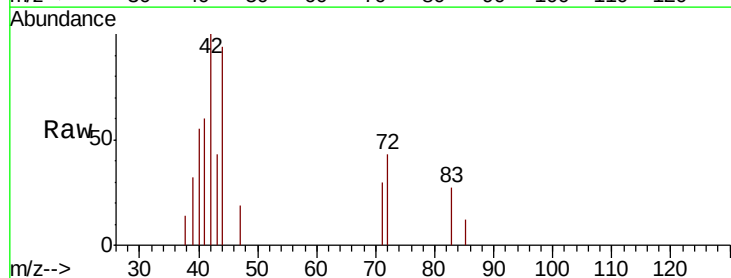
Tgt Ion: 42 Resp: 1615

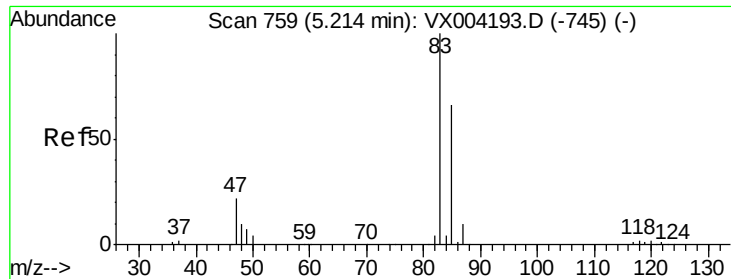
Ion Ratio Lower Upper

42 100

72 43.0 37.4 56.0

71 35.2 34.5 51.7

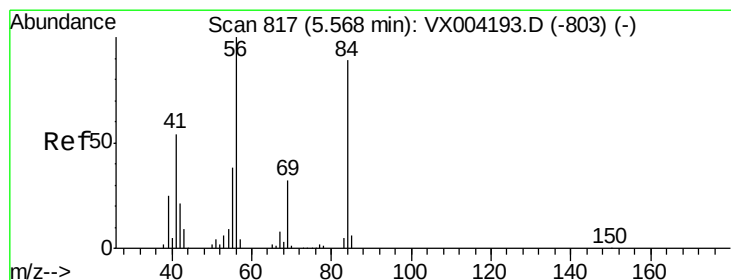
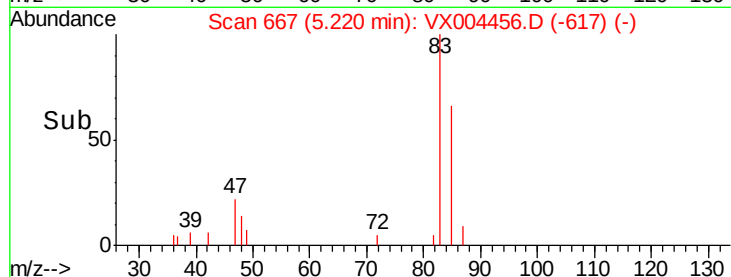
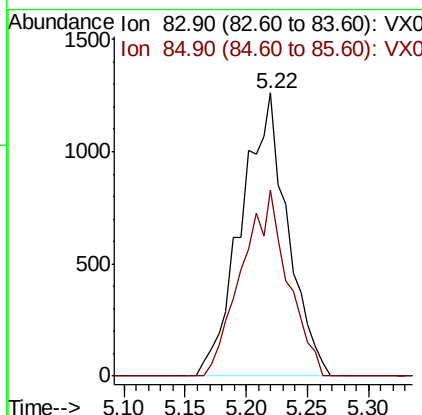
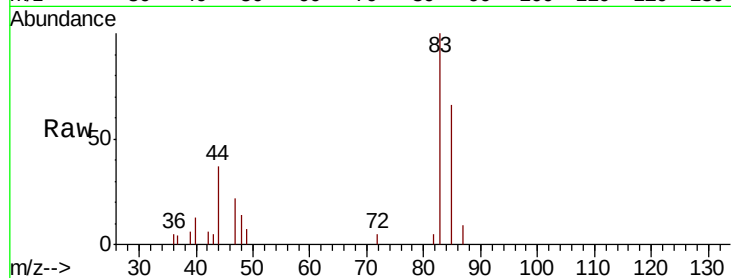




#30
Chloroform
Concen: 0.53 ug/l
RT: 5.22 min Scan# 667
Delta R.T. 0.01 min
Lab File: VX004456.D
Acq: 10 Sep 2018 18:34

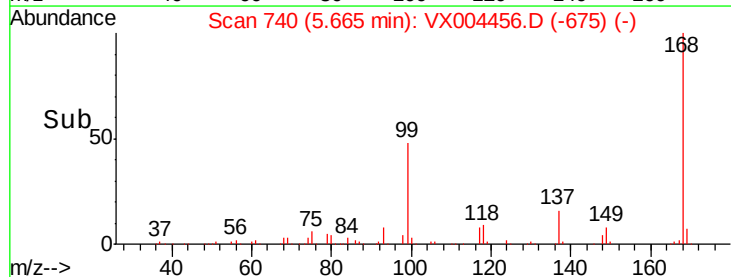
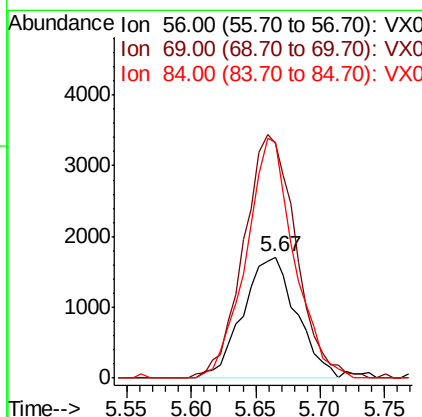
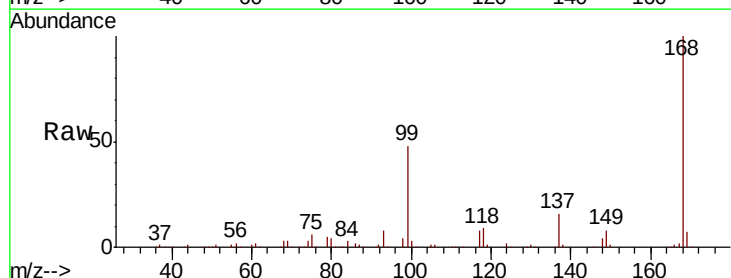
Instrument :
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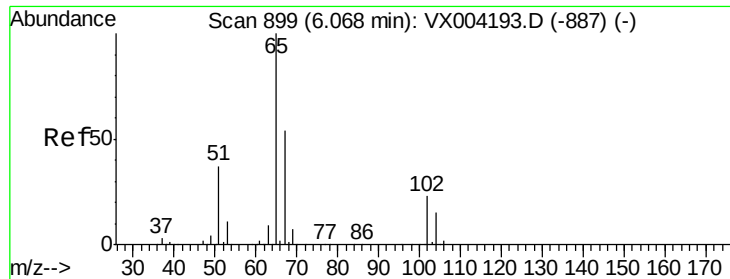
Tot Ion: 83 Resp: 3327
Ion Ratio Lower Upper
83 100
85 65.7 52.6 79.0



#31
Cyclohexane
Concen: 0.91 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.10 min
Lab File: VX004456.D
Acq: 10 Sep 2018 18:34

Tgt Ion: 56 Resp: 4953
Ion Ratio Lower Upper
56 100
69 193.4 25.4 38.2#
84 194.1 71.4 107.2#

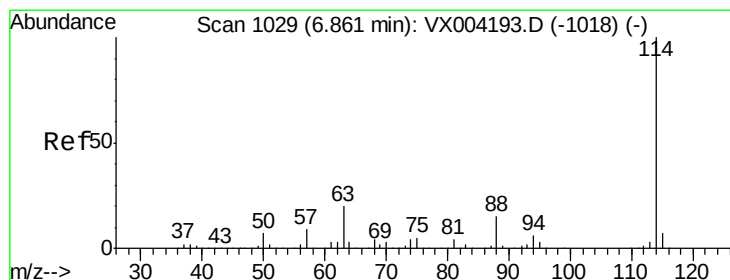
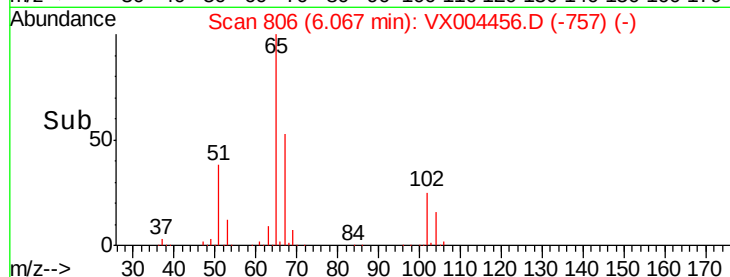
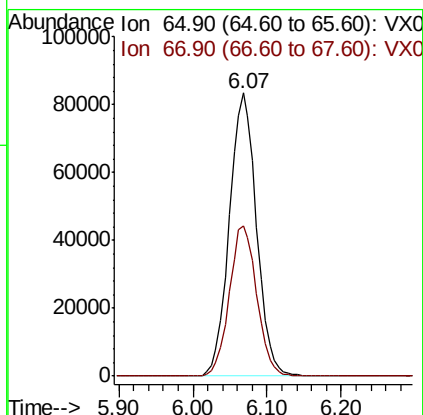
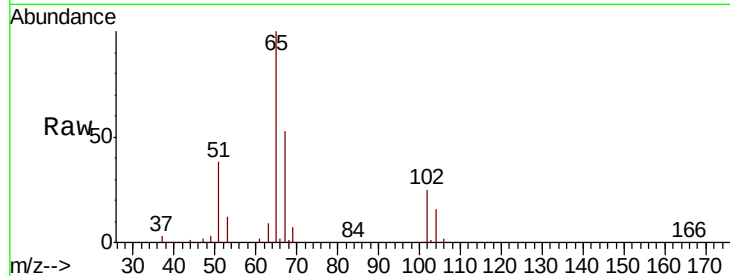




#33
 1,2-Dichloroethane-d4
 Concen: 55.11 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. -0.00 min
 Lab File: VX004456.D
 Acq: 10 Sep 2018 18:34

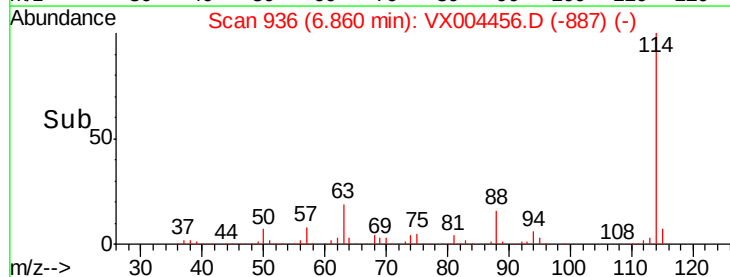
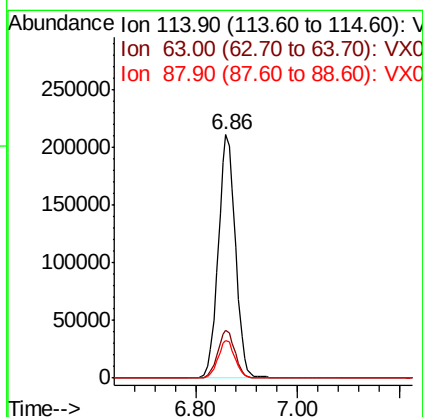
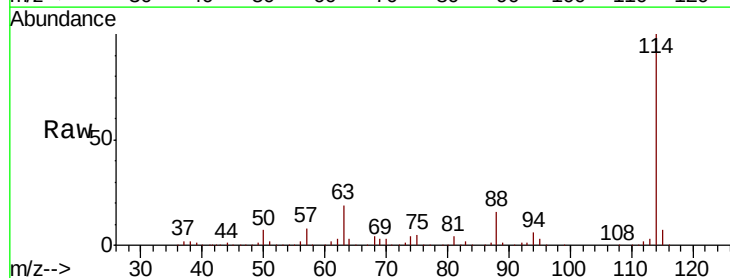
Instrument :
 MSVOA_X
 ClientSampleId :
 PB112704ZHE#13

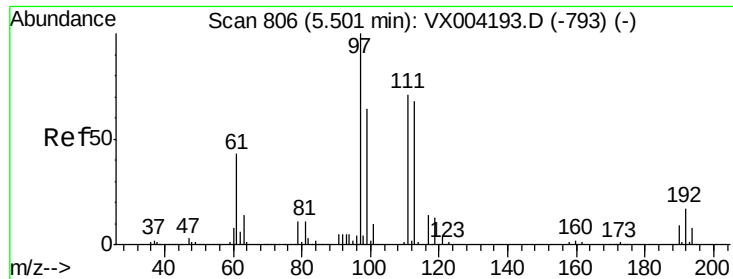
Tot Ion: 65 Resp: 212866
 Ion Ratio Lower Upper
 65 100
 67 54.0 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX004456.D
 Acq: 10 Sep 2018 18:34

Tgt Ion: 114 Resp: 494296
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 39.0
 88 15.5 0.0 30.4

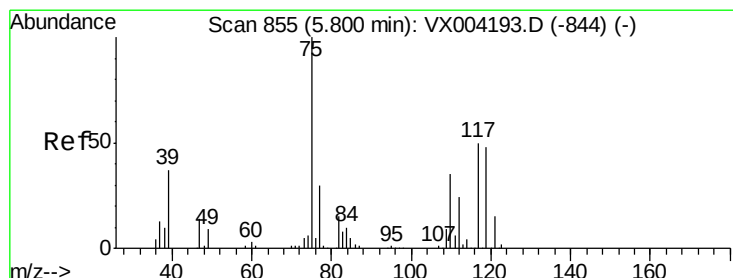
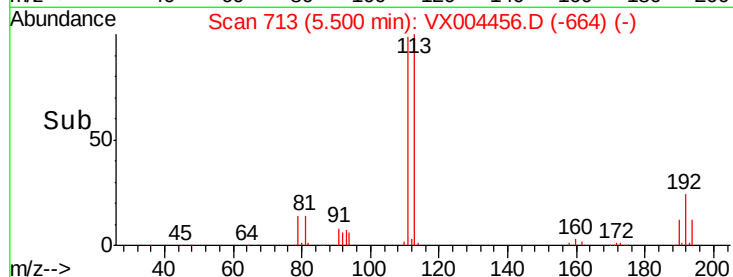
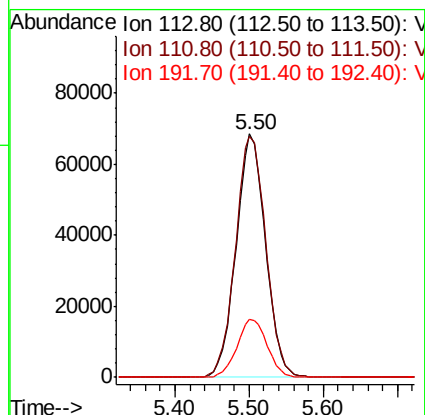
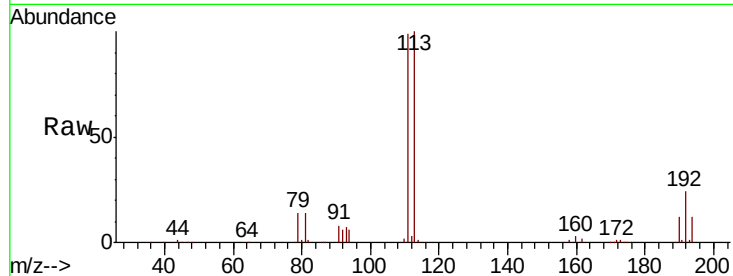




#35
 Dibromofluoromethane
 Concen: 51.75 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX004456.D
 Acq: 10 Sep 2018 18:34

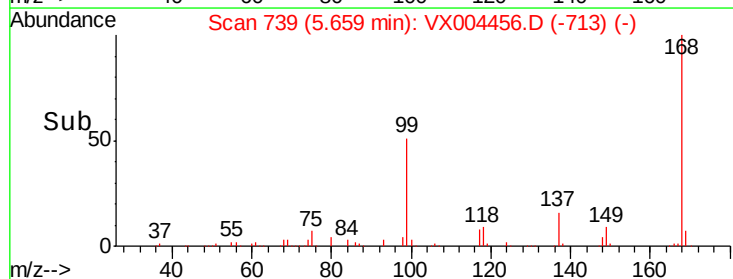
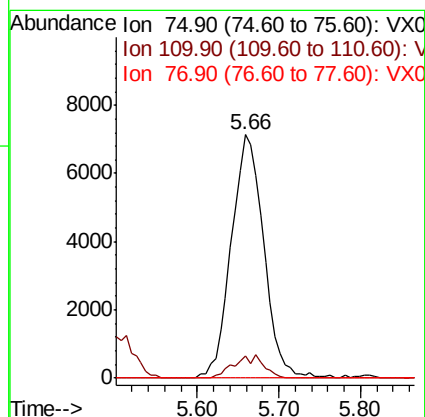
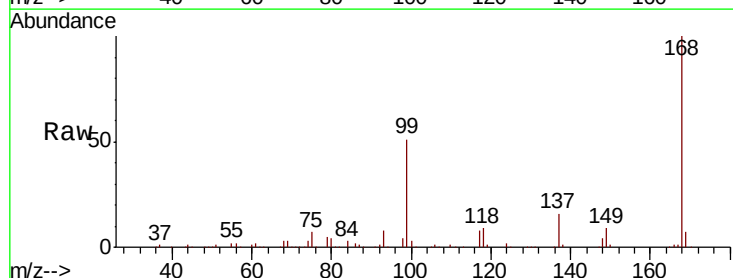
Instrument :
 MSVOA_X
 ClientSampleId :
 PB112704ZHE#13

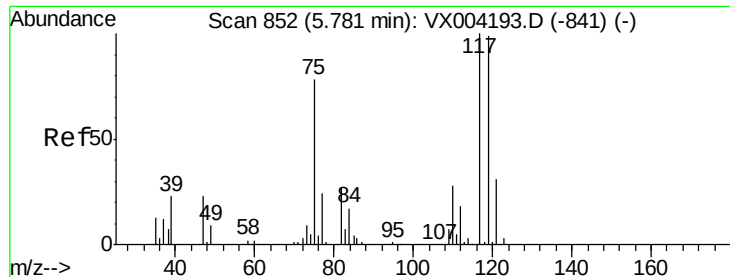
Tot Ion:113 Resp: 190312
 Ion Ratio Lower Upper
 113 100
 111 101.9 82.4 123.6
 192 24.3 19.4 29.2



#36
 1,1-Dichloropropene
 Concen: 3.52 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX004456.D
 Acq: 10 Sep 2018 18:34

Tgt Ion: 75 Resp: 19577
 Ion Ratio Lower Upper
 75 100
 110 8.8 18.0 54.0#
 77 0.0 24.6 36.8#





#38

Carbon Tetrachloride

Concen: 4.85 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX004456.D

Acq: 10 Sep 2018 18:34

Instrument :

MSVOA_X

ClientSampleId :

PB112704ZHE#13

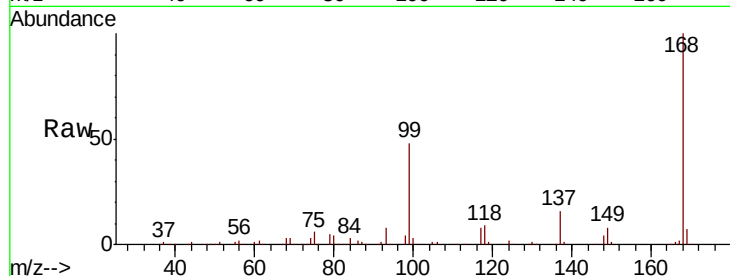
Tot Ion:117 Resp: 25342

Ion Ratio Lower Upper

117 100

119 7.1 78.8 118.2#

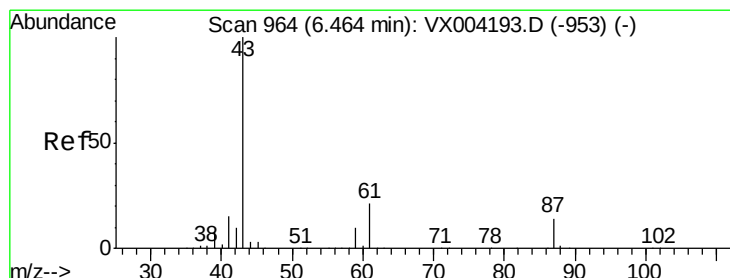
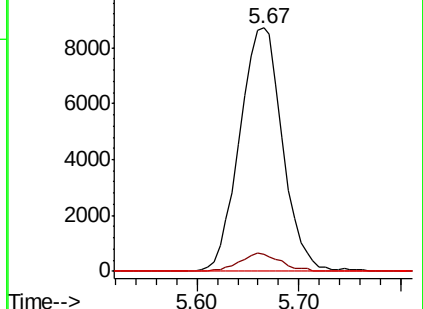
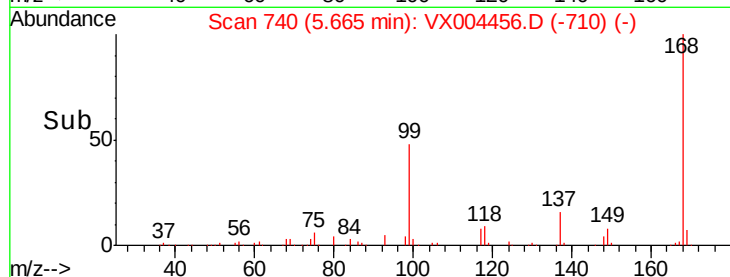
121 0.0 24.9 37.3#



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: 25.46 ug/l

RT: 6.46 min Scan# 871

Delta R.T. -0.00 min

Lab File: VX004456.D

Acq: 10 Sep 2018 18:34

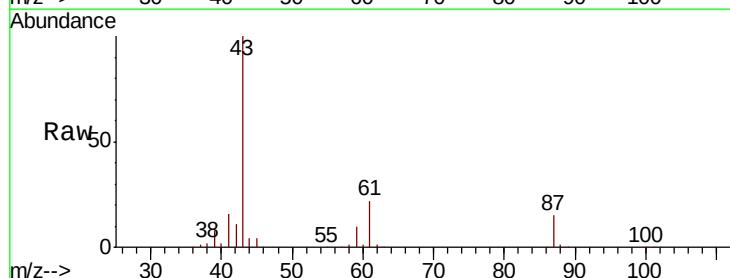
Tgt Ion: 43 Resp: 213839

Ion Ratio Lower Upper

43 100

61 21.6 17.0 25.4

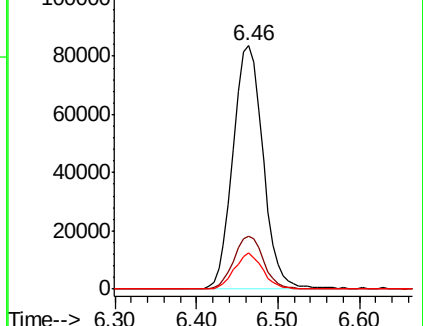
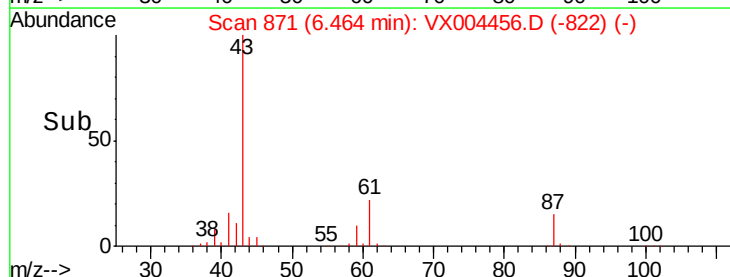
87 13.8 11.4 17.2

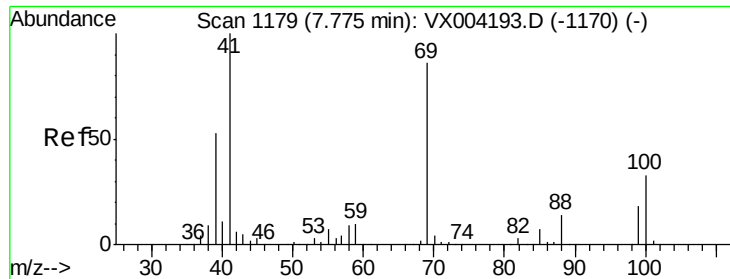


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

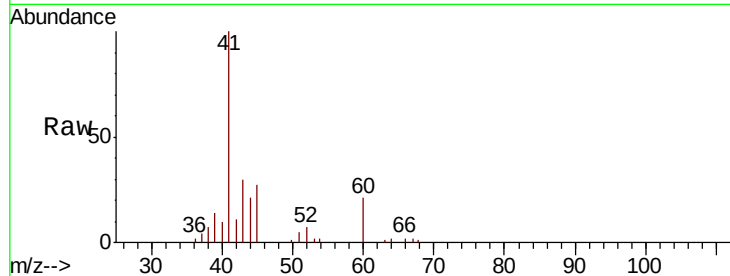




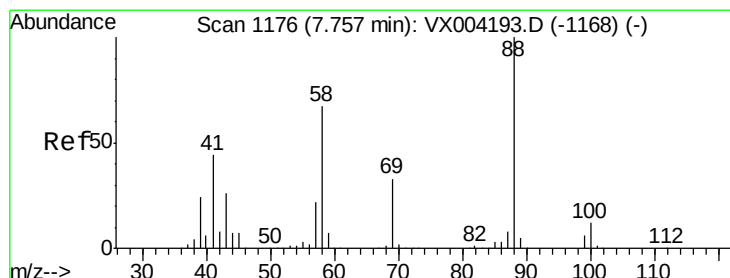
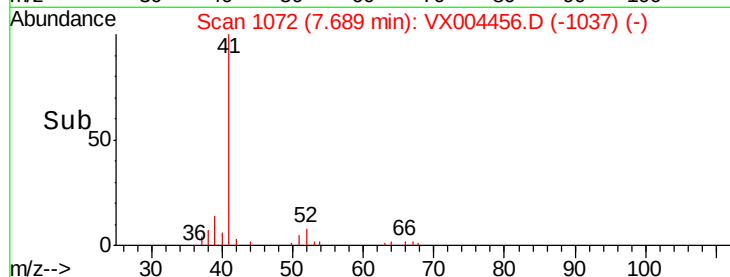
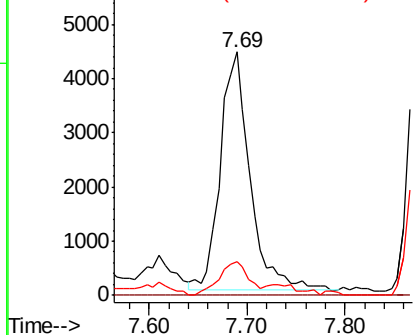
#48
Methvl methacrylate
Concen: 2.06 ug/l
RT: 7.69 min Scan# 1072
Delta R.T. -0.09 min
Lab File: VX004456.D
Acq: 10 Sep 2018 18:34

Instrument :
MSVOA_X
ClientSampleId :
PB112704ZHE#13

Tot Ion: 41 Resp: 9235
Ion Ratio Lower Upper
41 100
69 0.0 70.2 105.4#
39 14.0 42.7 64.1#

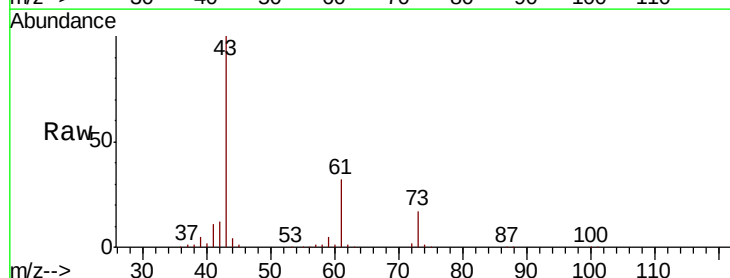


Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 39.00 (38.70 to 39.70): VX0

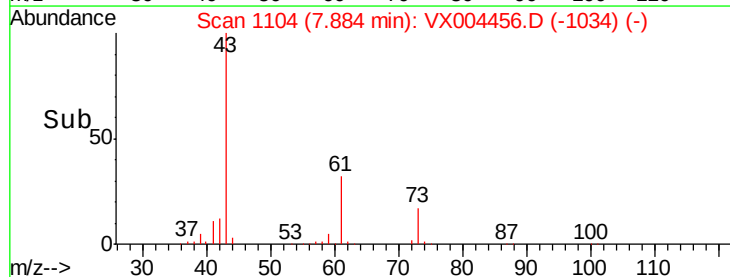
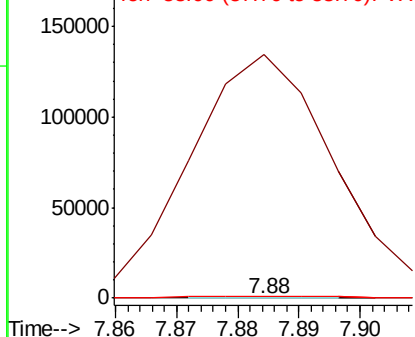


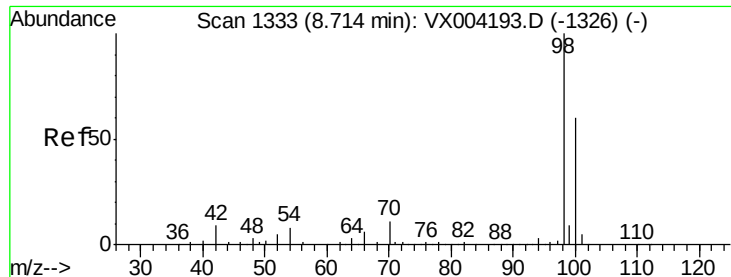
#49
1,4-Dioxane
Concen: 0.24 ug/l
RT: 7.88 min Scan# 1104
Delta R.T. 0.13 min
Lab File: VX004456.D
Acq: 10 Sep 2018 18:34

Tgt Ion: 88 Resp: 24
Ion Ratio Lower Upper
88 100
43 948220.8 24.7 37.1#
58 9012.5 55.3 82.9#



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

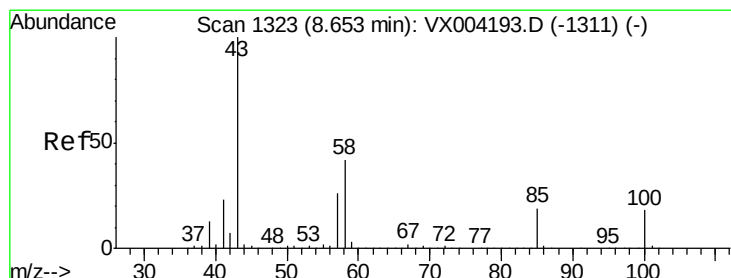
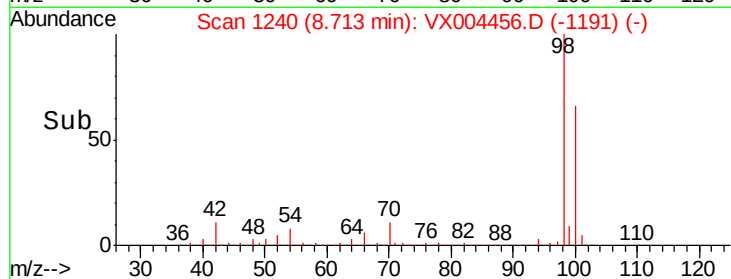
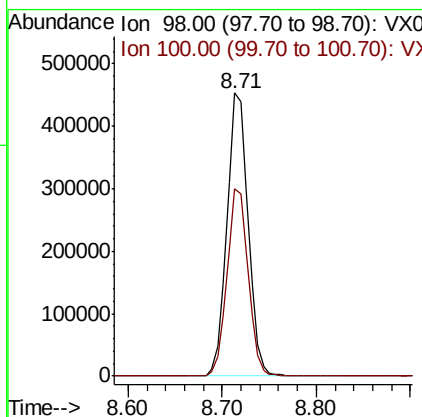
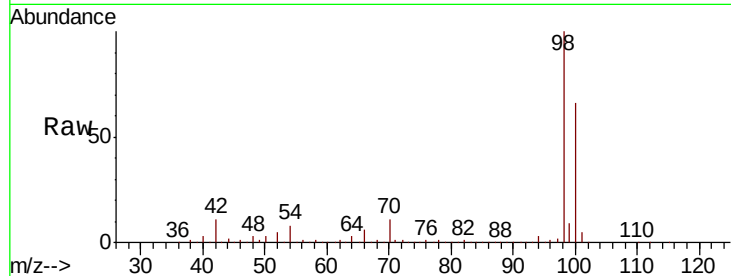




#50
Toluene-d8
Concen: 51.21 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX004456.D
Acq: 10 Sep 2018 18:34

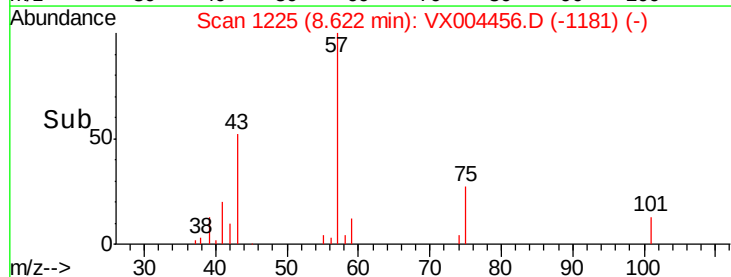
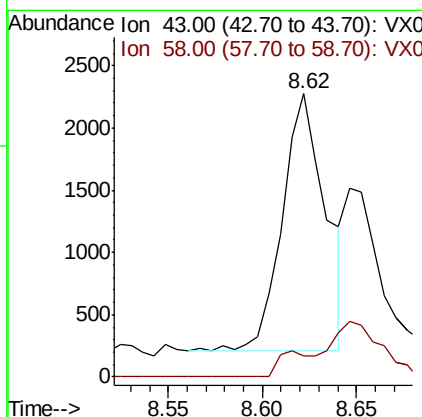
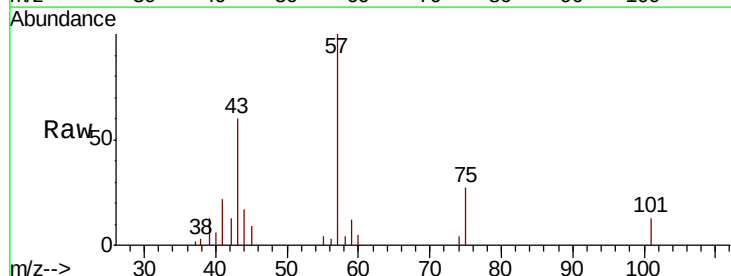
Instrument :
MSVOA_X
ClientSampleId :
PB112704ZHE#13

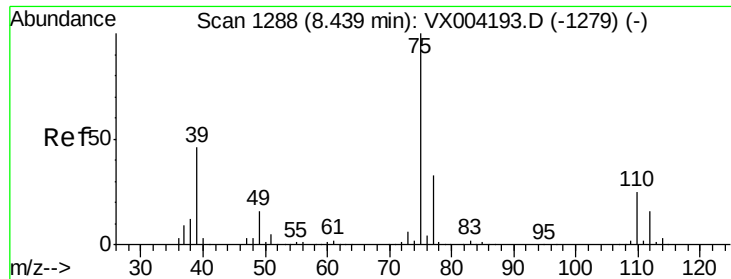
Tot Ion: 98 Resp: 710798
Ion Ratio Lower Upper
98 100
100 65.9 52.9 79.3



#51
4-Methyl-2-Pentanone
Concen: 0.54 ug/l
RT: 8.62 min Scan# 1225
Delta R.T. -0.03 min
Lab File: VX004456.D
Acq: 10 Sep 2018 18:34

Tgt Ion: 43 Resp: 3293
Ion Ratio Lower Upper
43 100
58 7.9 33.1 49.7#





#54

cis-1,3-Dichloropropene

Concen: 0.27 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. 0.18 min

Lab File: VX004456.D

Acq: 10 Sep 2018 18:34

Instrument :

MSVOA_X

ClientSampleId :

PB112704ZHE#13

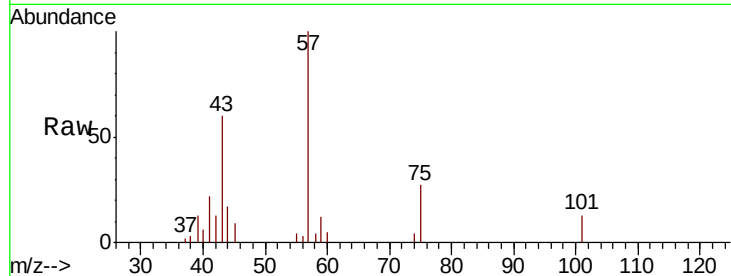
Tot Ion: 75 Resp: 1644

Ion Ratio Lower Upper

75 100

77 0.0 26.2 39.2#

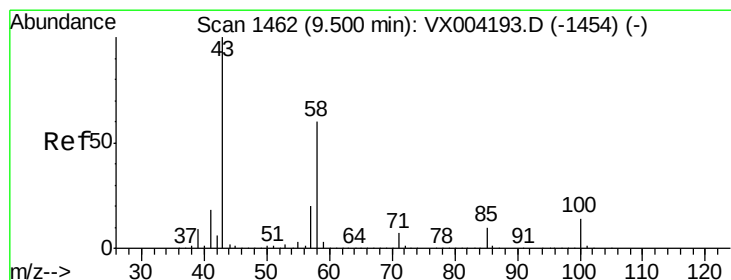
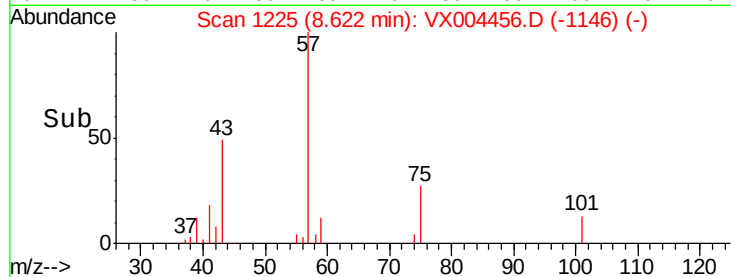
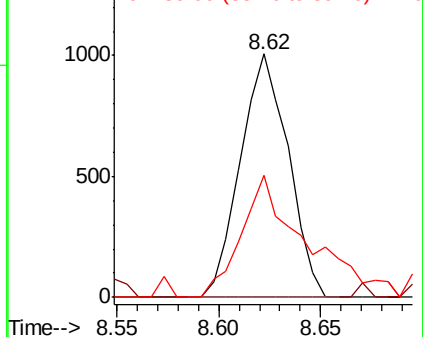
39 50.0 36.4 54.6



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: 3.17 ug/l

RT: 9.55 min Scan# 1377

Delta R.T. 0.05 min

Lab File: VX004456.D

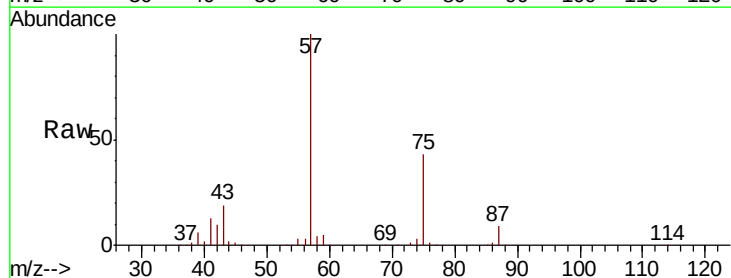
Acq: 10 Sep 2018 18:34

Tgt Ion: 43 Resp: 14743

Ion Ratio Lower Upper

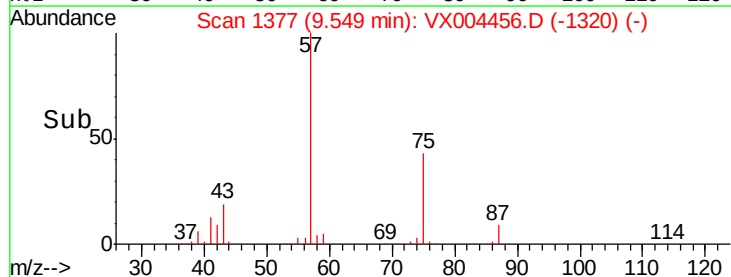
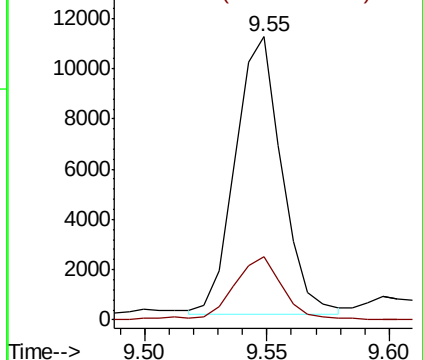
43 100

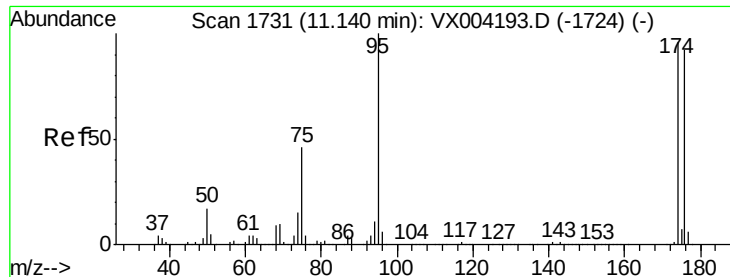
58 24.3 29.0 87.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

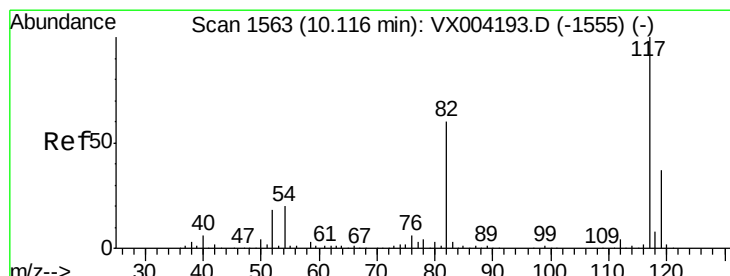
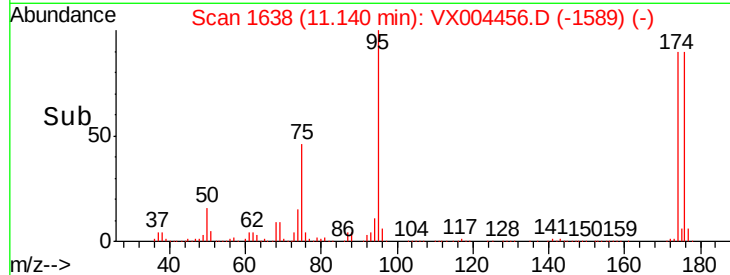
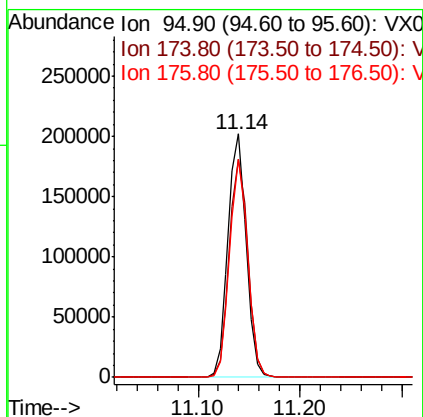
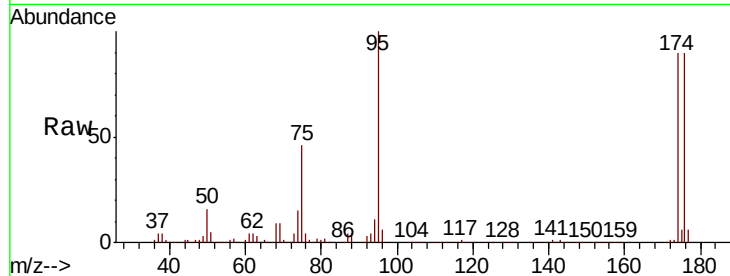




#62
4-Bromofluorobenzene
Concen: 48.23 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX004456.D
Acq: 10 Sep 2018 18:34

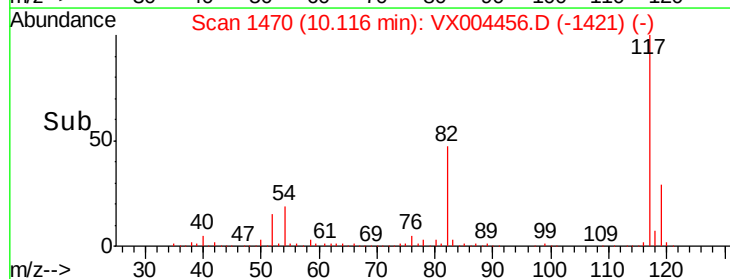
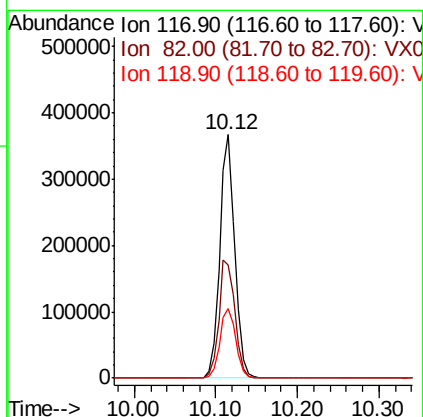
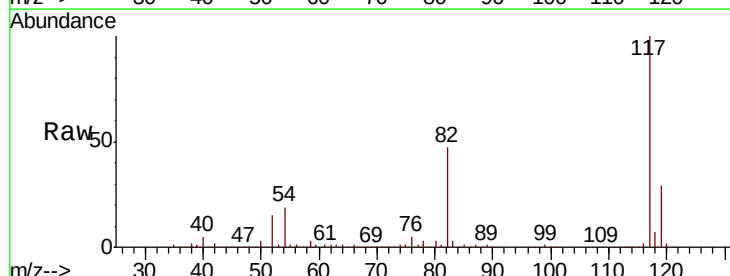
Instrument :
MSVOA_X
ClientSampleId :
PB112704ZHE#13

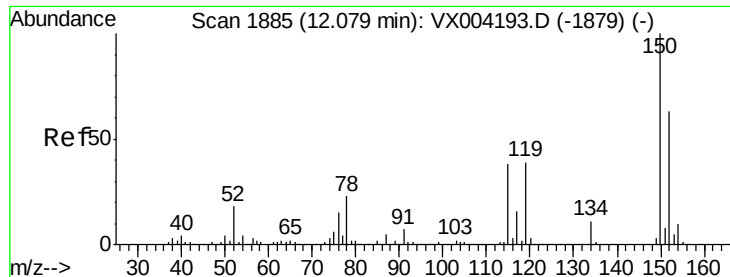
Tot Ion: 95 Resp: 249789
Ion Ratio Lower Upper
95 100
174 92.0 0.0 185.2
176 89.1 0.0 178.6



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX004456.D
Acq: 10 Sep 2018 18:34

Tgt Ion: 117 Resp: 472094
Ion Ratio Lower Upper
117 100
82 46.6 47.8 71.6#
119 28.7 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: VX004456.D

Acq: 10 Sep 2018 18:34

Instrument :

MSVOA_X

ClientSampleId :

PB112704ZHE#13

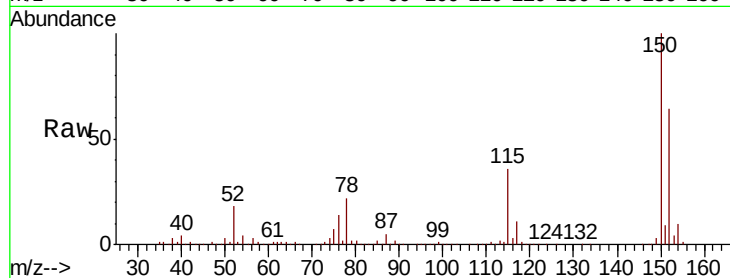
Tot Ion:152 Resp: 262012

Ion Ratio Lower Upper

152 100

115 54.7 39.0 117.0

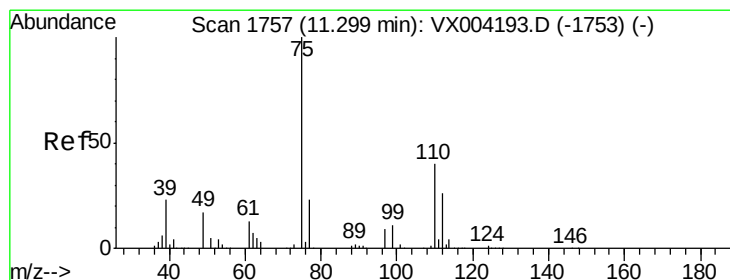
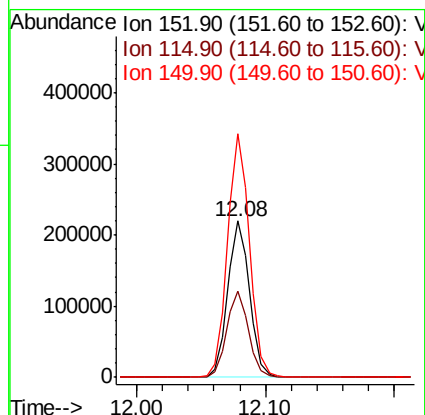
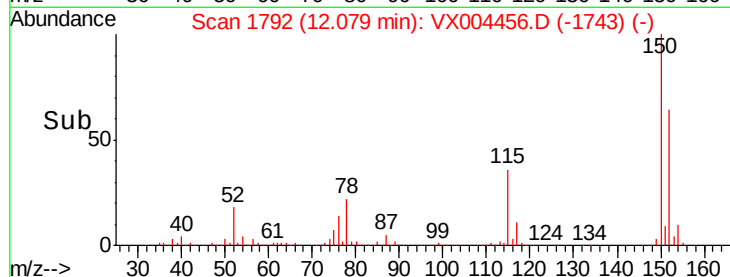
150 156.8 0.0 351.0



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: 21.58 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004456.D

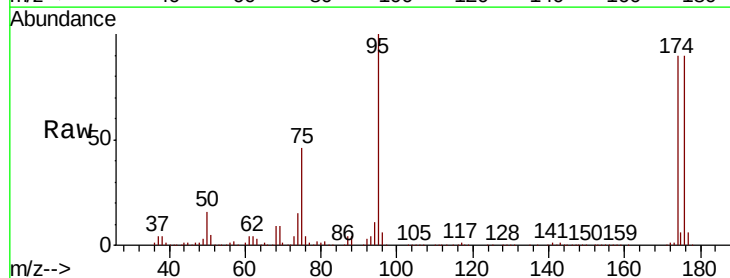
Acq: 10 Sep 2018 18:34

Tgt Ion: 75 Resp: 114980

Ion Ratio Lower Upper

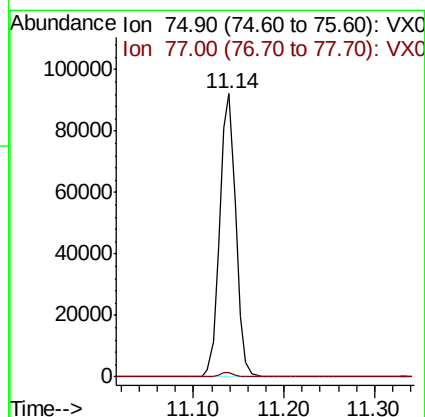
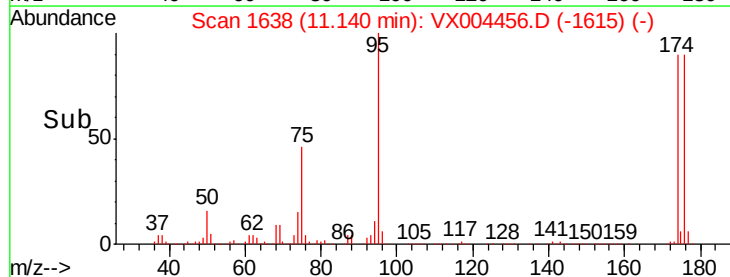
75 100

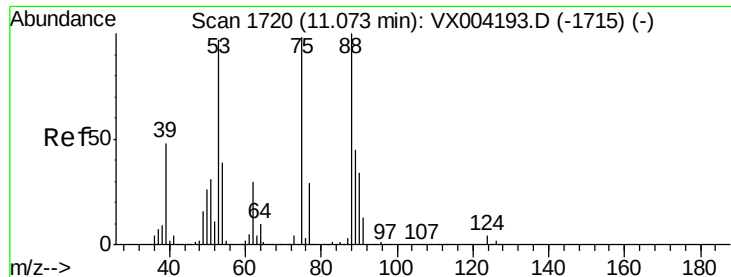
77 1.5 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 70.01 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX004456.D

Acq: 10 Sep 2018 18:34

Instrument :

MSVOA_X

ClientSampleId :

PB112704ZHE#13

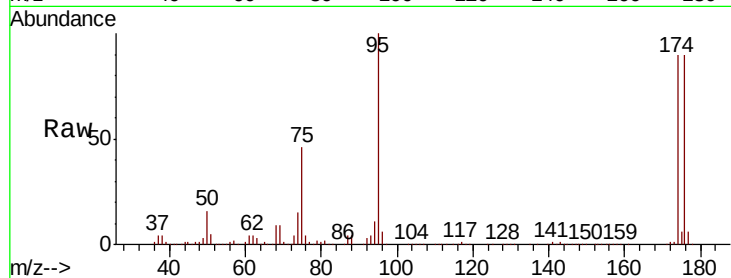
Tot Ion: 75 Resp: 114980

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

