

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091018\
 Data File : VX004447.D
 Acq On : 10 Sep 2018 14:35
 Operator : JC/MD
 Sample : PB112704ZHE#04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB112704ZHE#04

Quant Time: Sep 11 01:19:43 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	326496	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	542097	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	500628	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	286802	50.00	ug/l	0.00

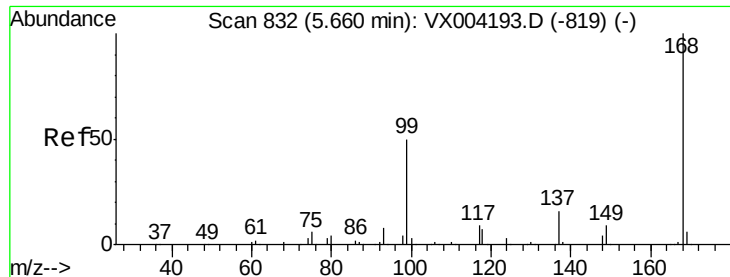
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	228491	53.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.38%	
35) Dibromofluoromethane	5.50	113	205389	50.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.86%	
50) Toluene-d8	8.71	98	775012	50.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.82%	
62) 4-Bromofluorobenzene	11.14	95	272532	47.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.96%	

Target Compounds

						Qvalue
3) Chloromethane	1.32	50	929	0.51	ug/l	98
5) Bromomethane	1.65	94	716	Below	Cal	86
6) Chloroethane	1.71	64	805	1.20	ug/l #	83
10) Methyl Iodide	2.52	142	333	4.34	ug/l #	66
11) Tert butyl alcohol	3.07	59	459	0.51	ug/l	97
13) Acrolein	2.30	56	129	0.59	ug/l #	60
16) Acetone	2.45	43	26540	7.44	ug/l	97
17) Carbon Disulfide	2.57	76	642	0.86	ug/l #	62
18) Methyl Acetate	2.78	43	10640	1.68	ug/l	98
20) Methylene Chloride	2.85	84	17179	4.19	ug/l	97
25) 2-Butanone	4.71	43	3781	Below	Cal	97
29) Tetrahydrofuran	5.18	42	1727	0.94	ug/l #	77
30) Chloroform	5.21	83	3507	0.51	ug/l	98
31) Cyclohexane	5.67	56	5558	0.93	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	21352	3.50	ug/l #	49
38) Carbon Tetrachloride	5.66	117	28178	4.91	ug/l #	16
43) Isopropyl Acetate	6.46	43	229342	24.90	ug/l	100
48) Methyl methacrylate	7.69	41	9422	1.91	ug/l #	23
51) 4-Methyl-2-Pentanone	8.62	43	3547	0.53	ug/l #	34
54) cis-1,3-Dichloropropene	8.62	75	1741	0.26	ug/l #	62
59) 2-Hexanone	9.55	43	15230	2.98	ug/l #	54
76) 1,2,3-Trichloropropane	11.14	75	127297	21.82	ug/l #	37
80) 1,3,5-Trimethylbenzene	11.51	105	3272	0.21	ug/l	95
81) trans-1,4-Dichloro-2-buten	11.14	75	127297	70.81	ug/l #	10
94) Hexachlorobutadiene	13.78	225	111	Below	Cal #	35

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.00 min

Lab File: VX004447.D

Acq: 10 Sep 2018 14:35

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MSVOA_X

ClientSampleId :

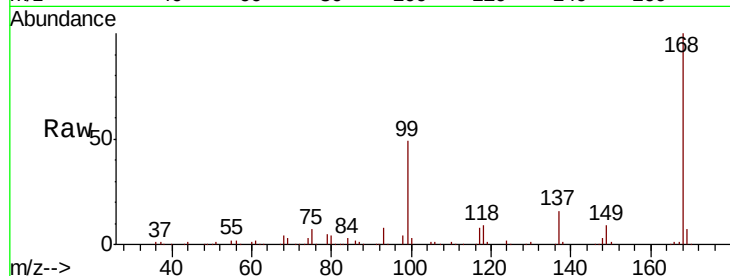
PB112704ZHE#04

Tot Ion:168 Resp: 326496

Ion Ratio Lower Upper

168 100

99 49.1 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

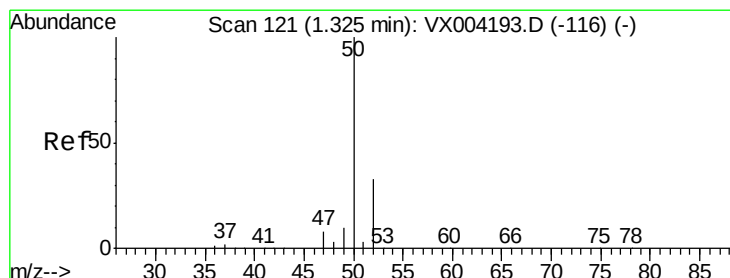
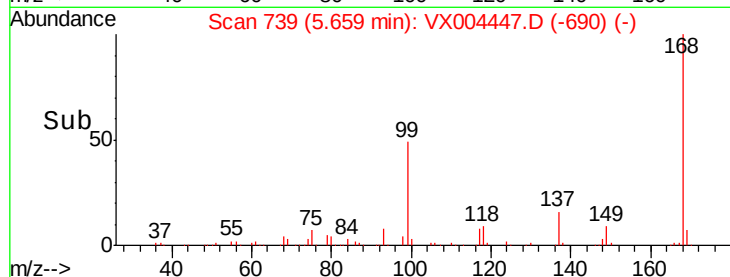
5.66

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.51 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX004447.D

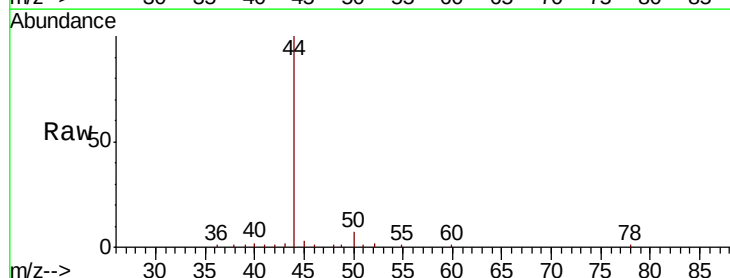
Acq: 10 Sep 2018 14:35

Tgt Ion: 50 Resp: 929

Ion Ratio Lower Upper

50 100

52 33.8 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

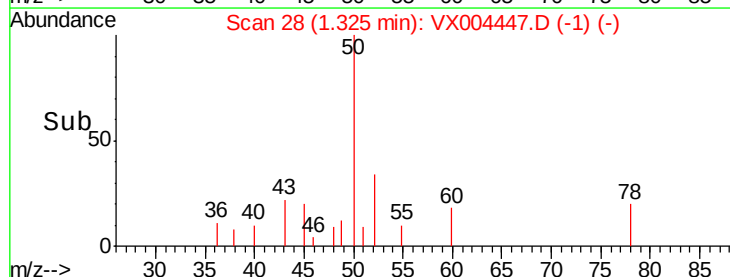
600

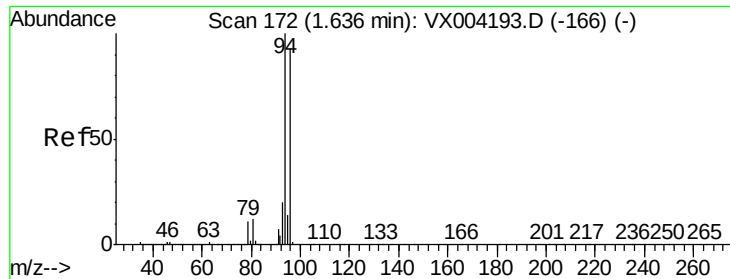
400

200

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX004447.D

Acq: 10 Sep 2018 14:35

Instrument :

MSVOA_X

ClientSampleId :

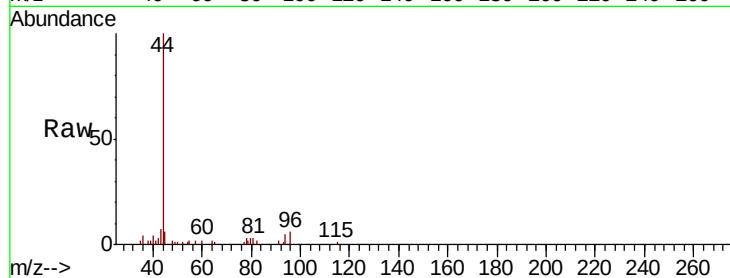
PB112704ZHE#04

Tot Ion: 94 Resp: 716

Ion Ratio Lower Upper

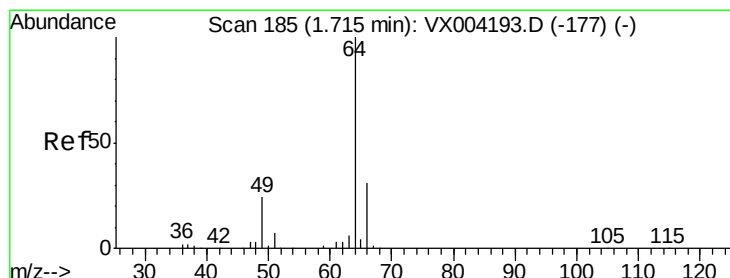
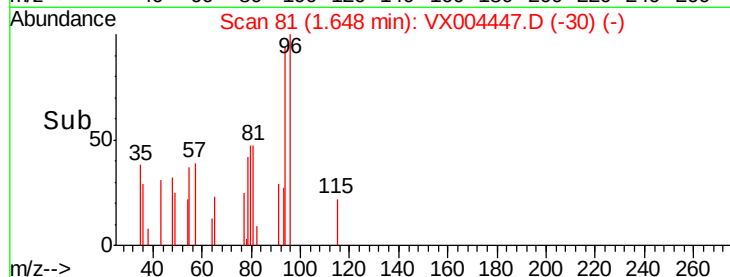
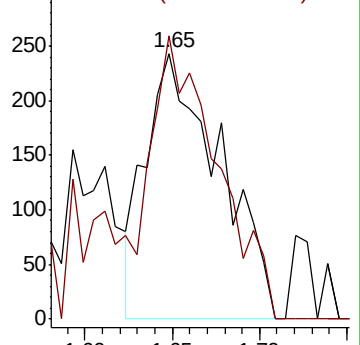
94 100

96 106.6 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: 1.20 ug/l

RT: 1.71 min Scan# 92

Delta R.T. -0.00 min

Lab File: VX004447.D

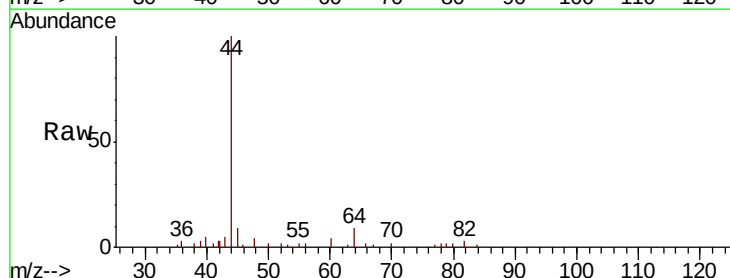
Acq: 10 Sep 2018 14:35

Tgt Ion: 64 Resp: 805

Ion Ratio Lower Upper

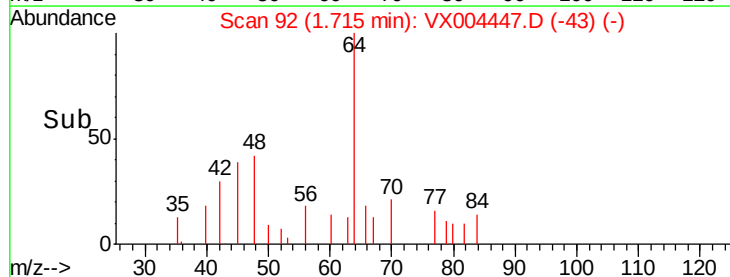
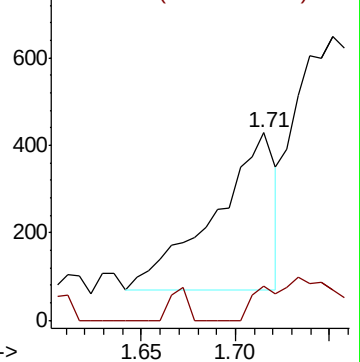
64 100

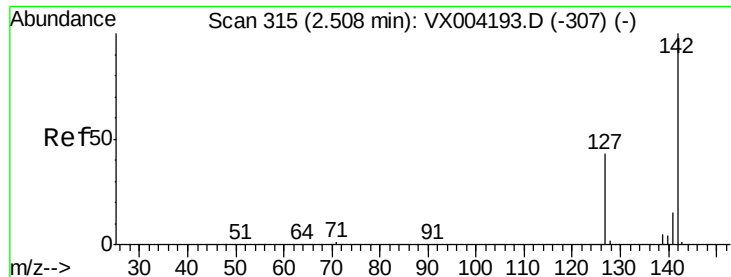
66 21.5 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

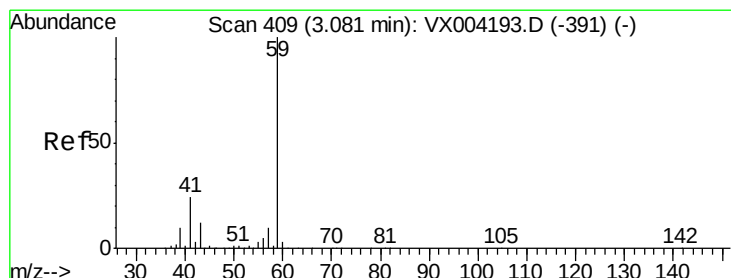
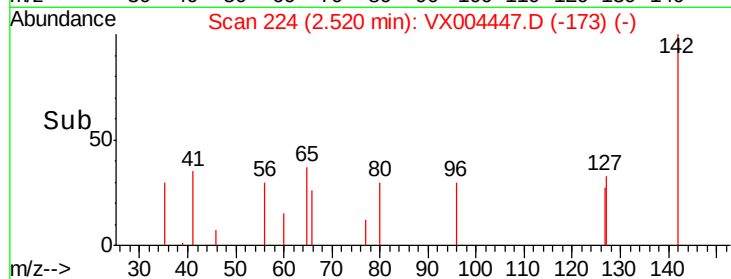
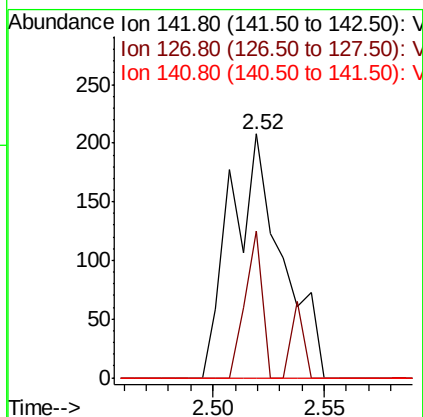
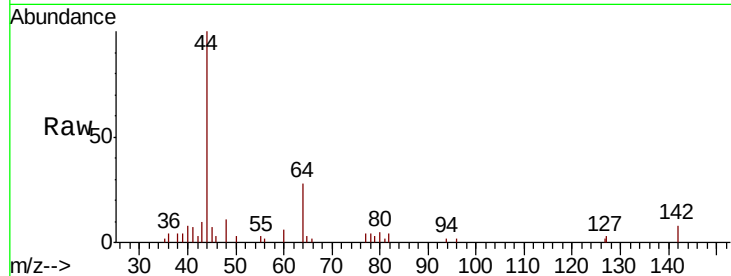




#10
Methyl Iodide
Concen: 4.34 ug/l
RT: 2.52 min Scan# 224
Delta R.T. 0.01 min
Lab File: VX004447.D
Acq: 10 Sep 2018 14:35

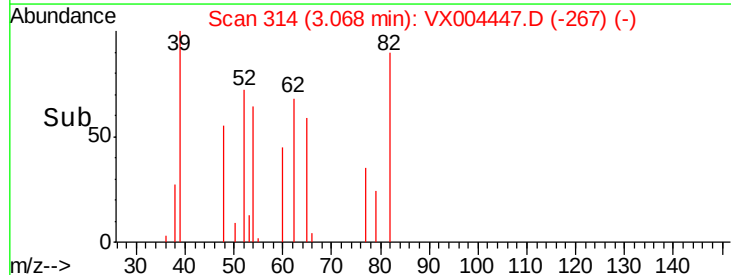
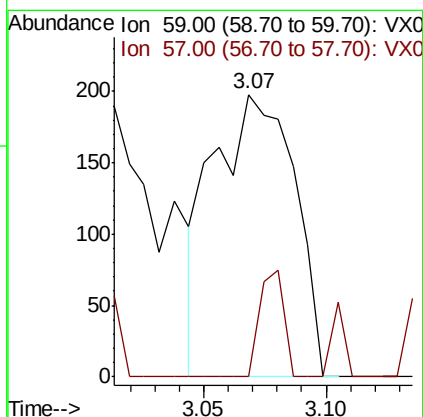
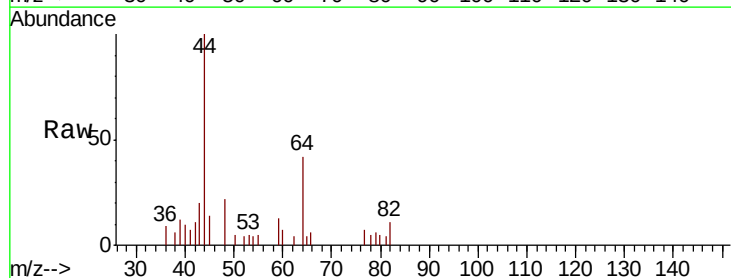
Instrument :
MSVOA_X
ClientSampleId :
PB112704ZHE#04

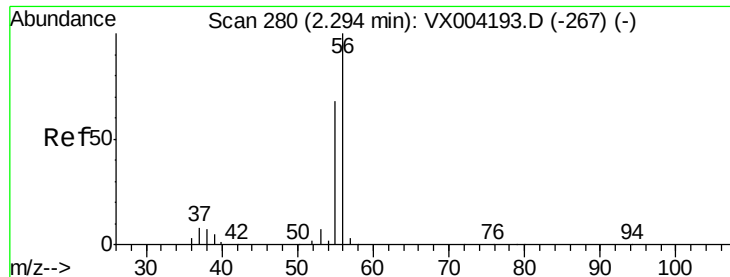
Tot Ion:142 Resp: 333
Ion Ratio Lower Upper
142 100
127 20.4 33.8 50.6#
141 0.0 11.4 17.0#



#11
Tert butyl alcohol
Concen: 0.51 ug/l
RT: 3.07 min Scan# 314
Delta R.T. -0.01 min
Lab File: VX004447.D
Acq: 10 Sep 2018 14:35

Tgt Ion: 59 Resp: 459
Ion Ratio Lower Upper
59 100
57 11.3 8.2 12.4





#13

Acrolein

Concen: 0.59 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX004447.D

Acq: 10 Sep 2018 14:35

Instrument :

MSVOA_X

ClientSampleId :

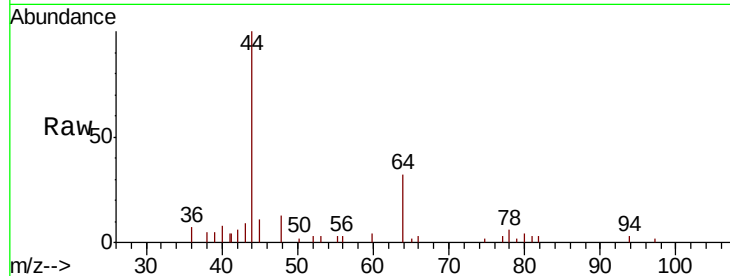
PB112704ZHE#04

Tot Ion: 56 Resp: 129

Ion Ratio Lower Upper

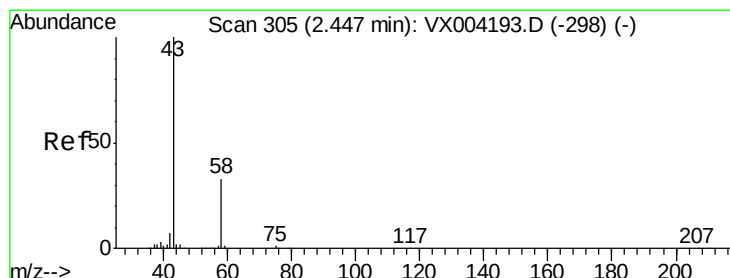
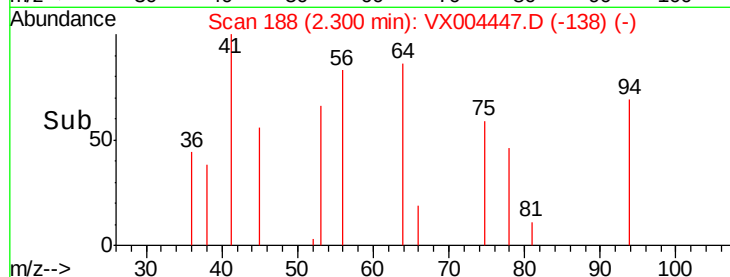
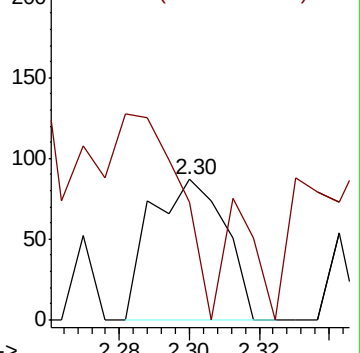
56 100

55 35.7 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: 7.44 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX004447.D

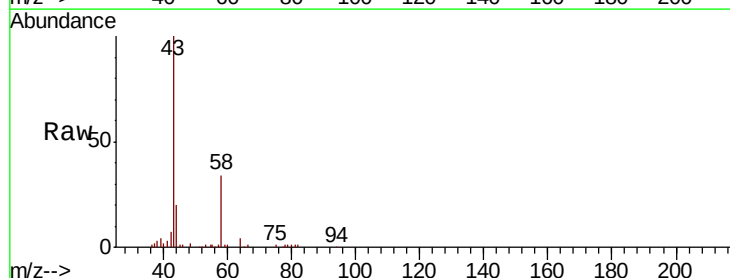
Acq: 10 Sep 2018 14:35

Tgt Ion: 43 Resp: 26540

Ion Ratio Lower Upper

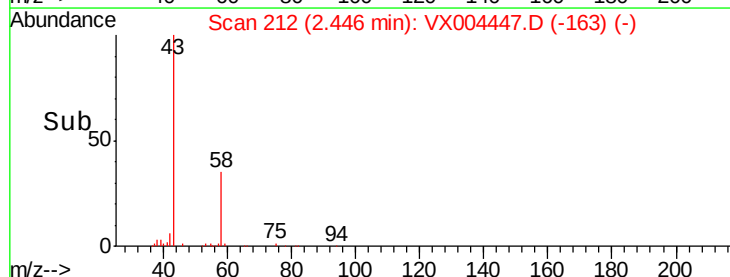
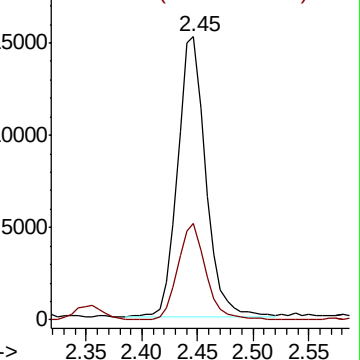
43 100

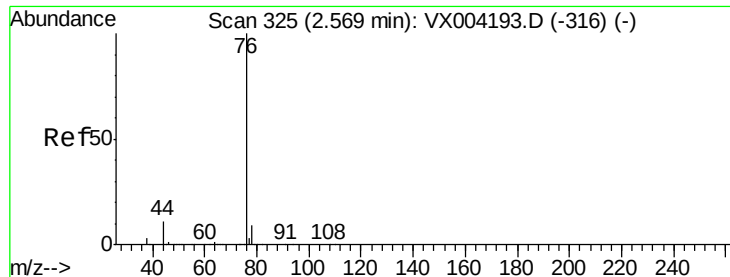
58 34.5 26.2 39.4



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: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX004447.D

Acq: 10 Sep 2018 14:35

Instrument :

MSVOA_X

ClientSampleId :

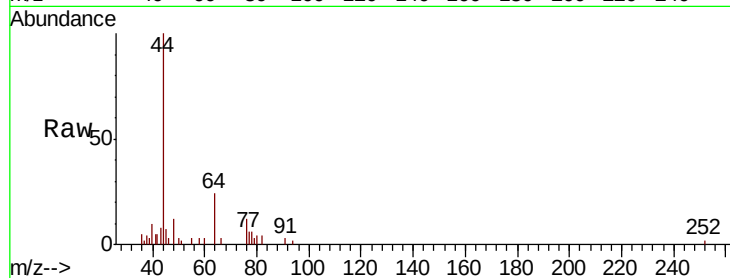
PB112704ZHE#04

Tot Ion: 76 Resp: 642

Ion Ratio Lower Upper

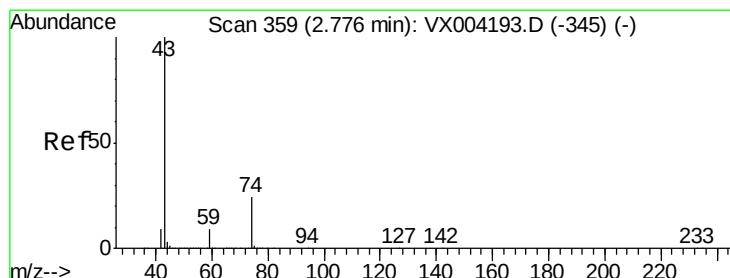
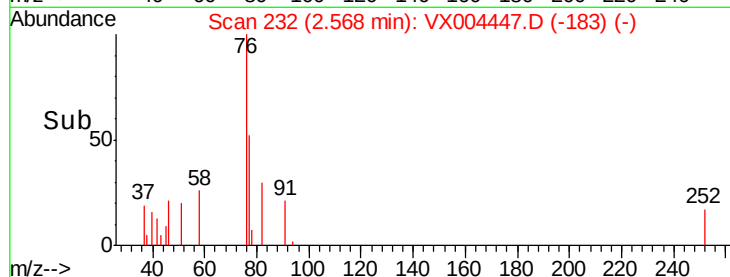
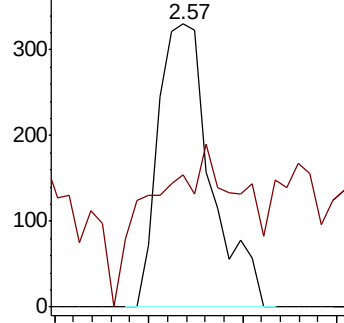
76 100

78 22.4 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#18

Methyl Acetate

Concen: 1.68 ug/l

RT: 2.78 min Scan# 266

Delta R.T. -0.00 min

Lab File: VX004447.D

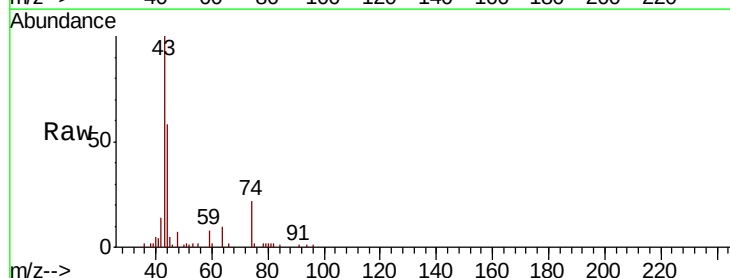
Acq: 10 Sep 2018 14:35

Tgt Ion: 43 Resp: 10640

Ion Ratio Lower Upper

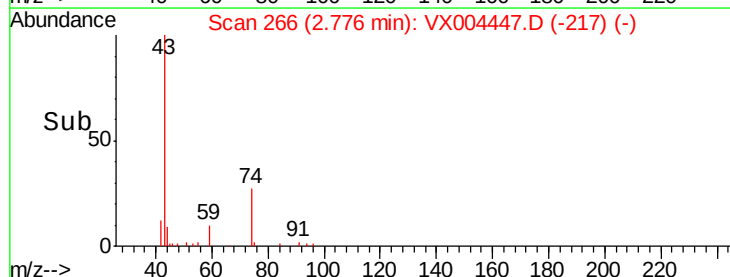
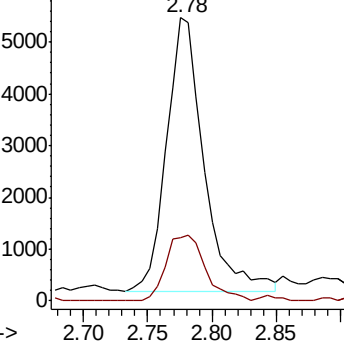
43 100

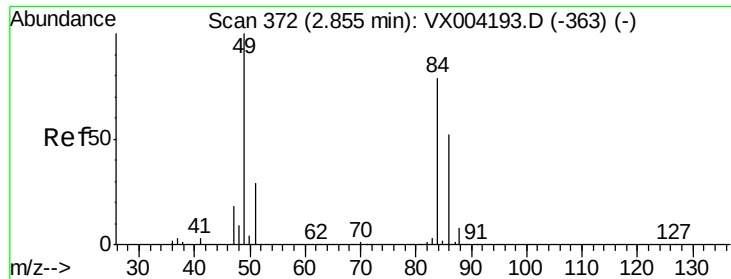
74 25.4 19.4 29.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

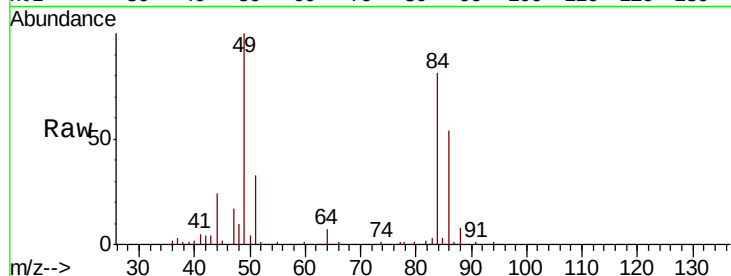




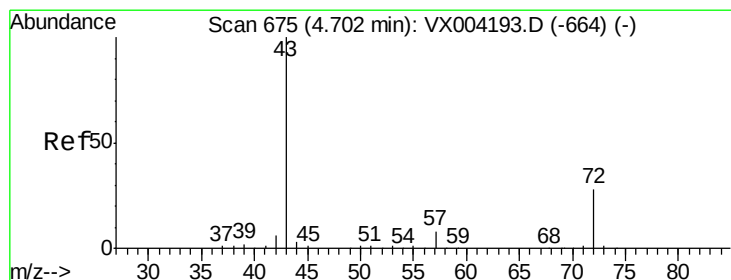
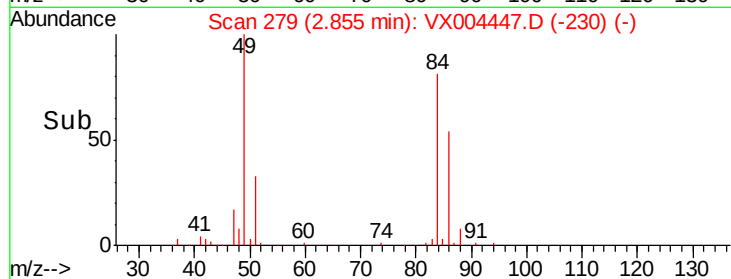
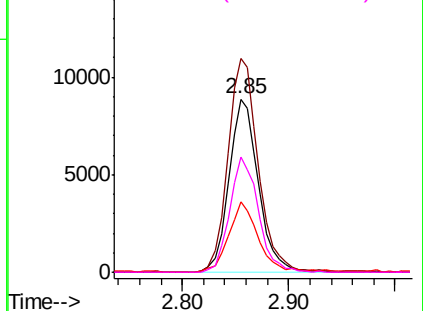
#20
Methvlene Chloride
Concen: 4.19 ua/l
RT: 2.85 min Scan# 279
Delta R.T. -0.00 min
Lab File: VX004447.D
Acq: 10 Sep 2018 14:35

Instrument :
MSVOA_X
ClientSampleId :
PB112704ZHE#04

Tot Ion: 84 Resp: 17179
Ion Ratio Lower Upper
84 100
49 123.2 101.2 151.8
51 40.8 29.5 44.3
86 66.5 52.3 78.5

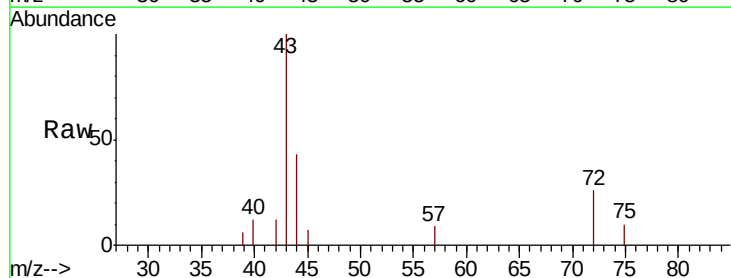


Abundance Ion 83.90 (83.60 to 84.60): VX0
Ion 48.90 (48.60 to 49.60): VX0
Ion 50.90 (50.60 to 51.60): VX0
Ion 85.90 (85.60 to 86.60): VX0

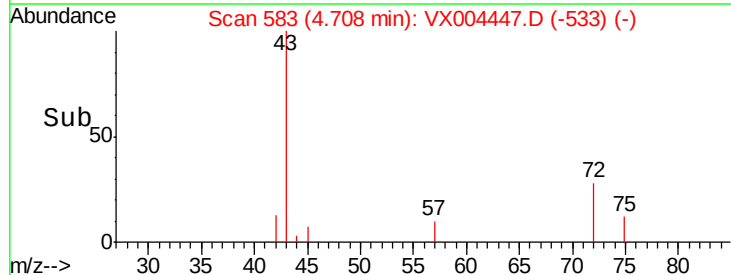
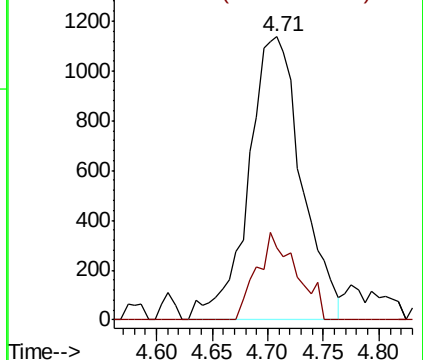


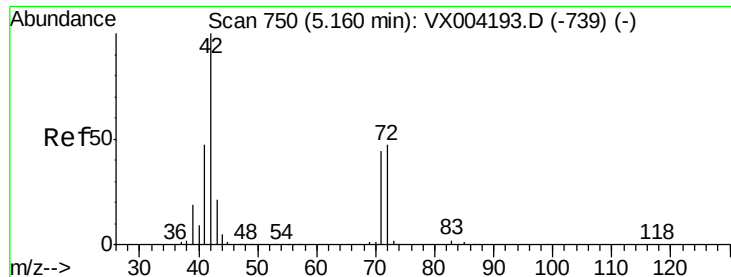
#25
2-Butanone
Concen: Below Cal
RT: 4.71 min Scan# 583
Delta R.T. 0.01 min
Lab File: VX004447.D
Acq: 10 Sep 2018 14:35

Tgt Ion: 43 Resp: 3781
Ion Ratio Lower Upper
43 100
72 25.7 22.0 33.0



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 72.00 (71.70 to 72.70): VX0





#29

Tetrahydrofuran

Concen: 0.94 ug/l

RT: 5.18 min Scan# 660

Delta R.T. 0.02 min

Lab File: VX004447.D

Acq: 10 Sep 2018 14:35

Instrument :

MSVOA_X

ClientSampleId :

PB112704ZHE#04

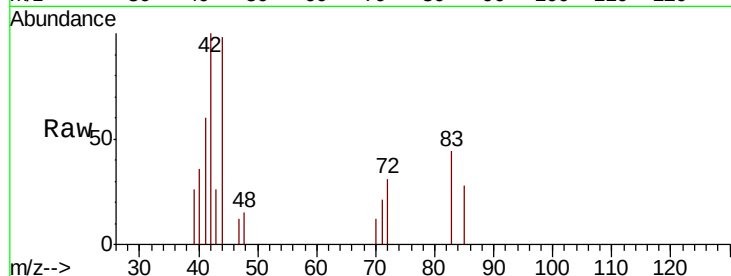
Tot Ion: 42 Resp: 1727

Ion Ratio Lower Upper

42 100

72 39.8 37.4 56.0

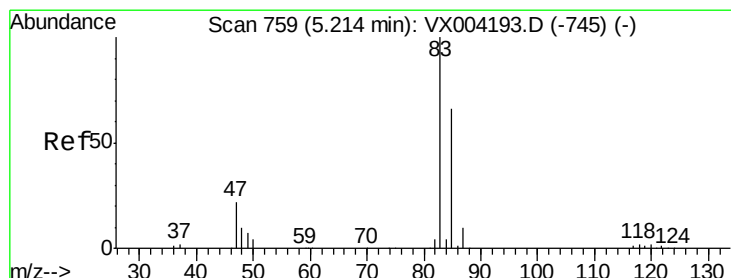
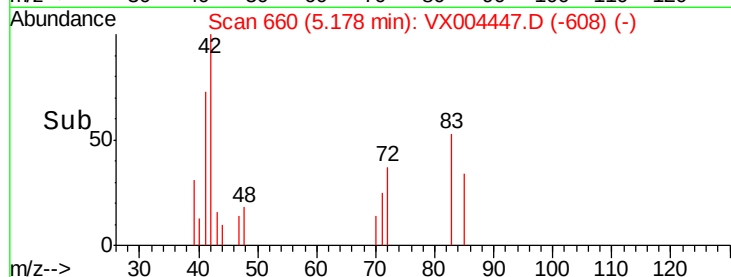
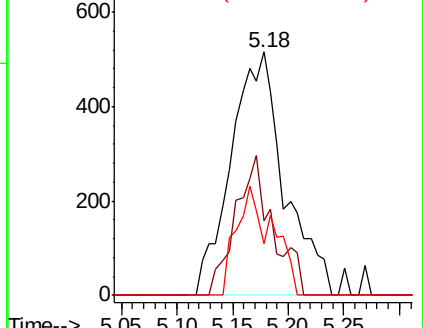
71 20.1 34.5 51.7#



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: 0.51 ug/l

RT: 5.21 min Scan# 665

Delta R.T. -0.01 min

Lab File: VX004447.D

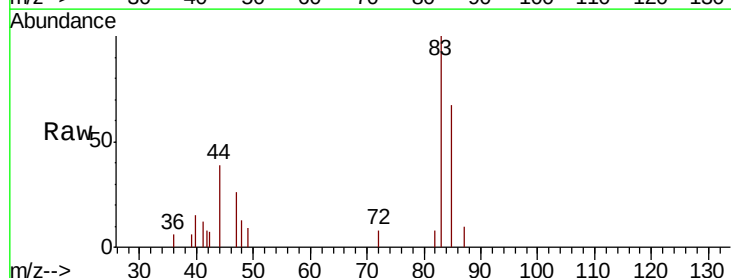
Acq: 10 Sep 2018 14:35

Tgt Ion: 83 Resp: 3507

Ion Ratio Lower Upper

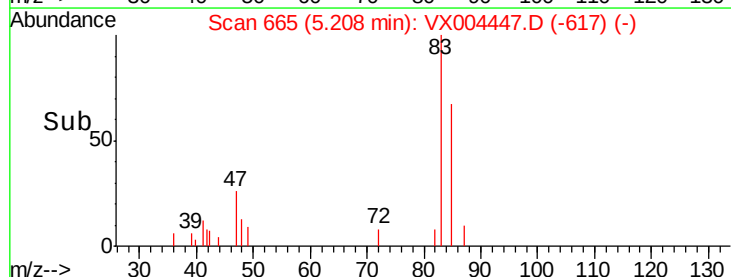
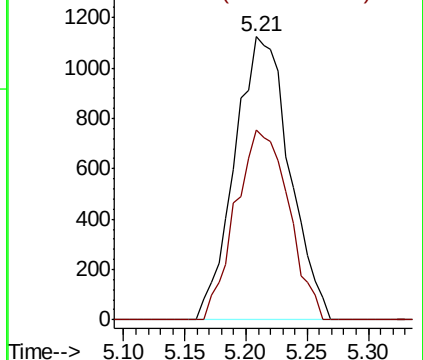
83 100

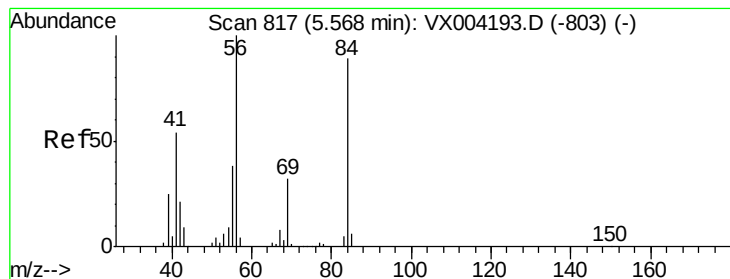
85 67.3 52.6 79.0



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0





#31

Cyclohexane

Concen: 0.93 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.10 min

Lab File: VX004447.D

Acq: 10 Sep 2018 14:35

Instrument :

MSVOA_X

ClientSampleId :

PB112704ZHE#04

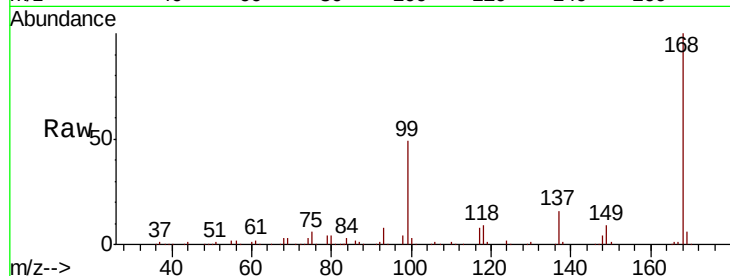
Tot Ion: 56 Resp: 5558

Ion Ratio Lower Upper

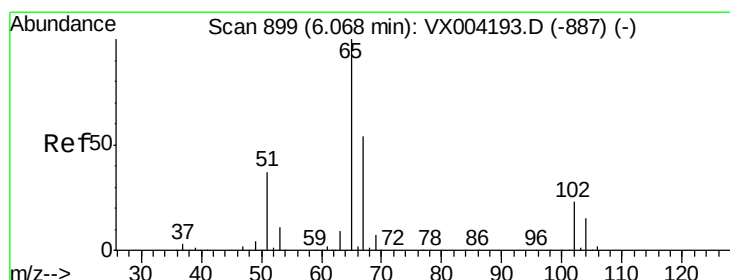
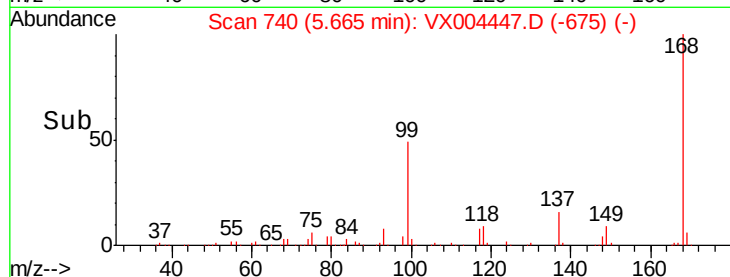
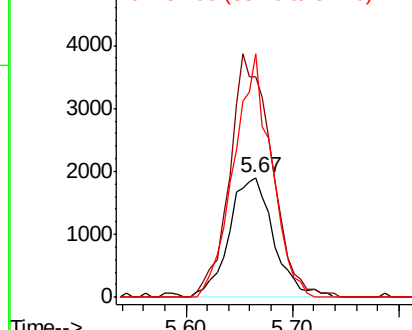
56 100

69 184.1 25.4 38.2#

84 203.5 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: 53.69 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX004447.D

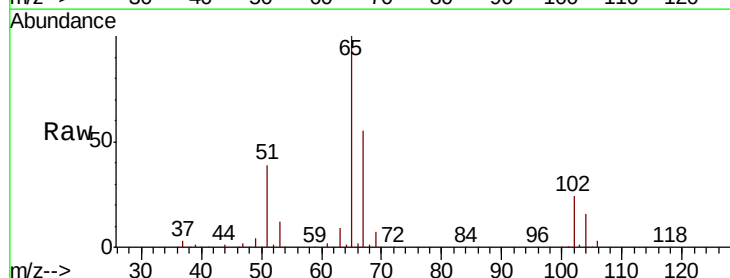
Acq: 10 Sep 2018 14:35

Tgt Ion: 65 Resp: 228491

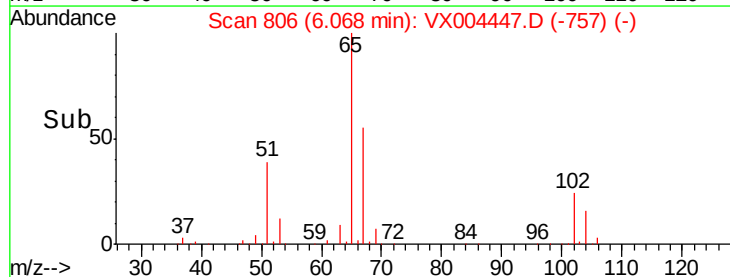
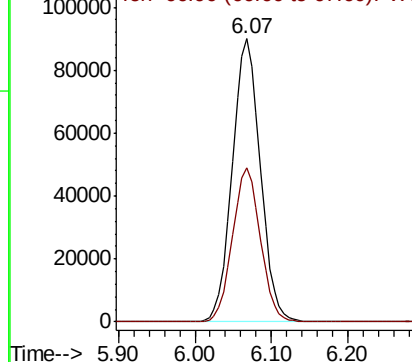
Ion Ratio Lower Upper

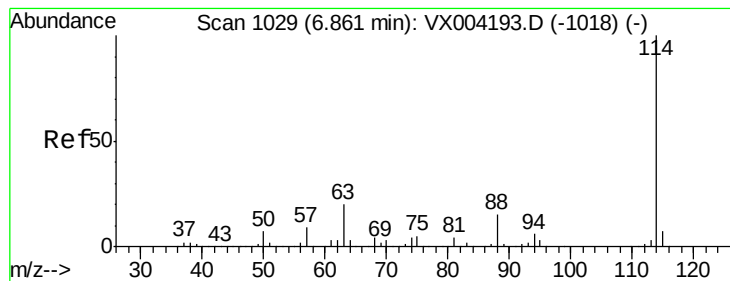
65 100

67 54.3 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: VX004447.D

Acq: 10 Sep 2018 14:35

Instrument :

MSVOA_X

ClientSampleId :

PB112704ZHE#04

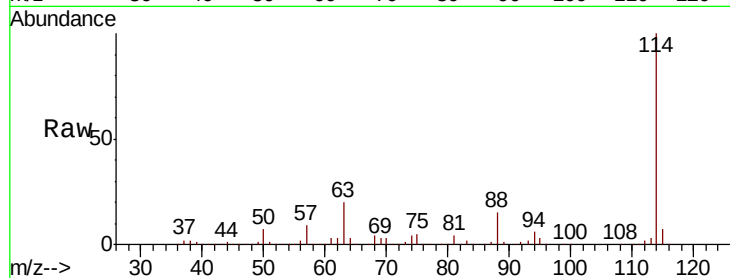
Tot Ion:114 Resp: 542097

Ion Ratio Lower Upper

114 100

63 19.7 0.0 39.0

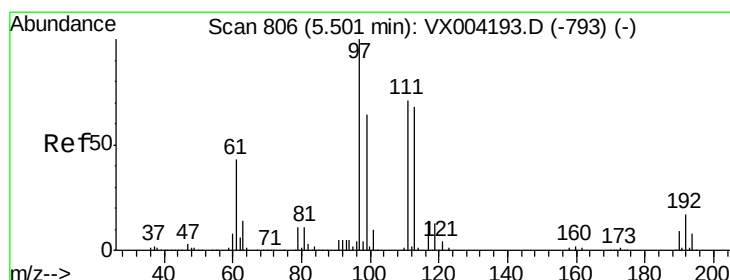
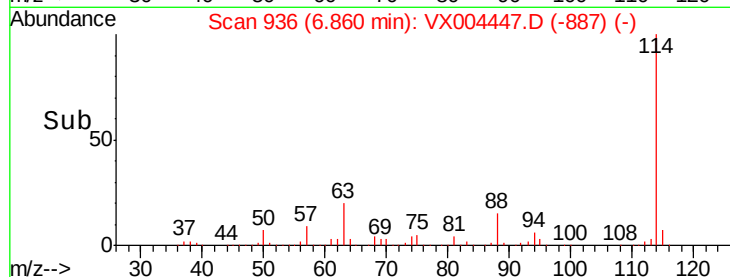
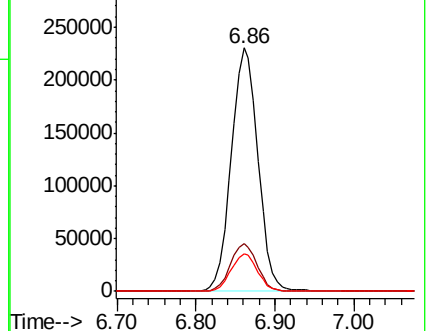
88 15.3 0.0 30.4



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: 50.93 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX004447.D

Acq: 10 Sep 2018 14:35

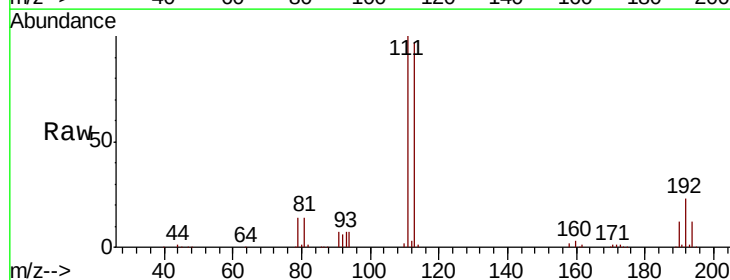
Tgt Ion:113 Resp: 205389

Ion Ratio Lower Upper

113 100

111 101.9 82.4 123.6

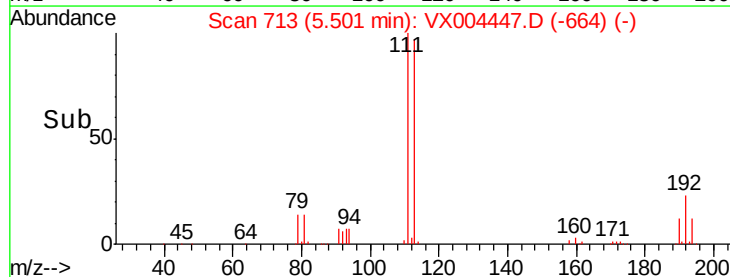
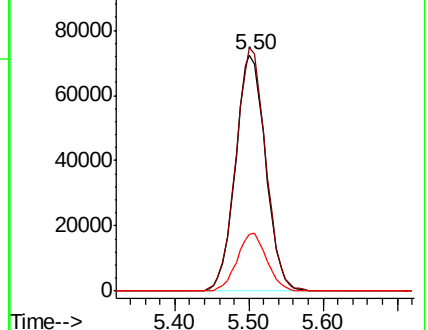
192 24.2 19.4 29.2

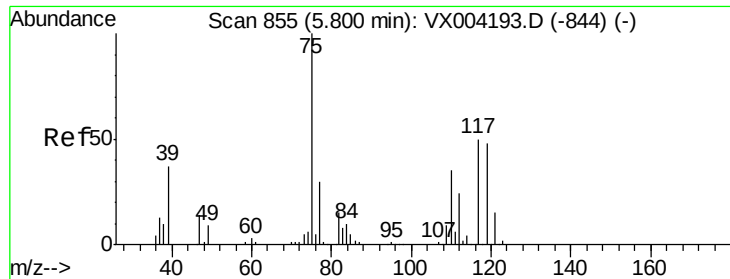


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

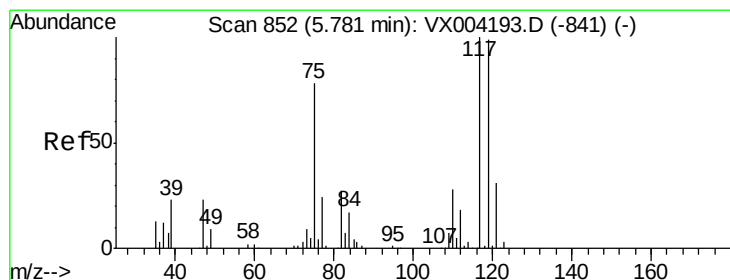
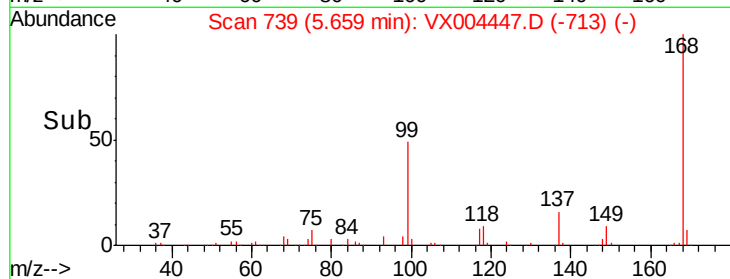
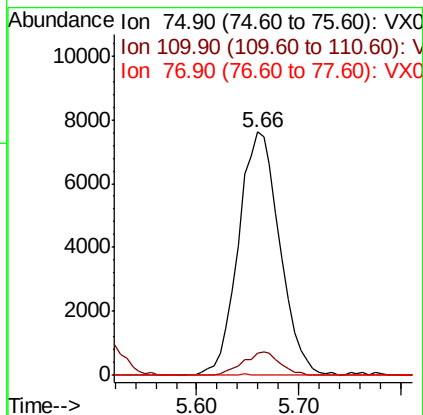
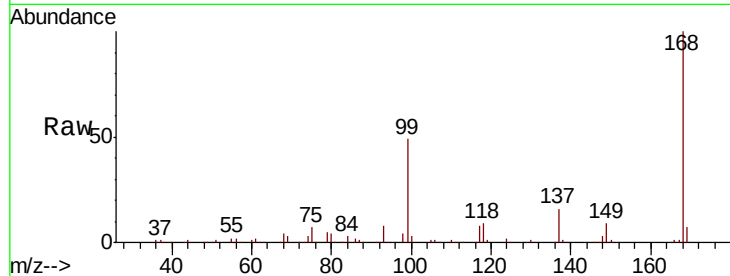




#36
 1,1-Dichloropropene
 Concen: 3.50 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX004447.D
 Acq: 10 Sep 2018 14:35

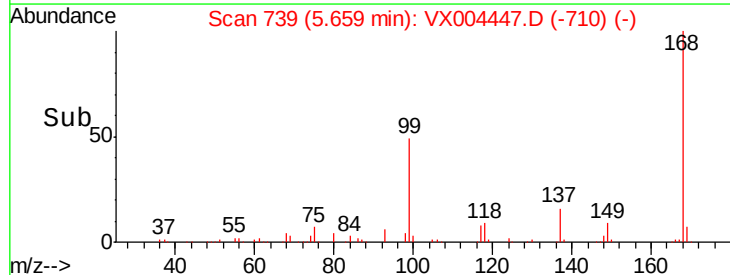
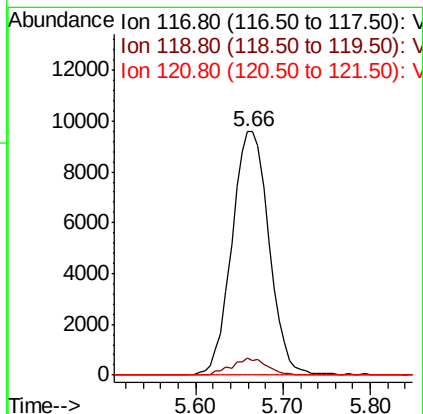
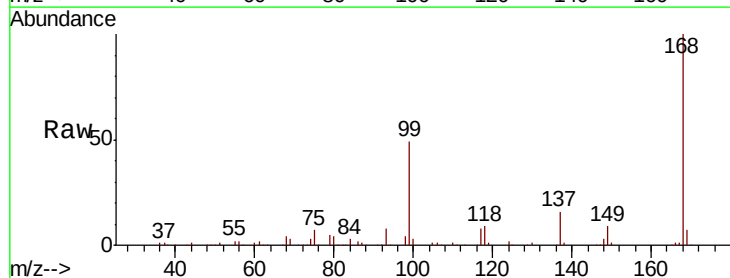
Instrument :
 MSVOA_X
 ClientSampleId :
 PB112704ZHE#04

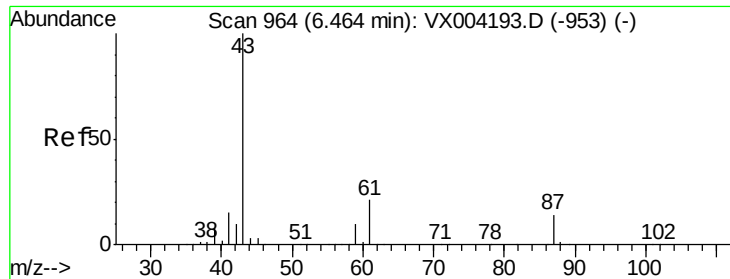
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.6	18.0	54.0#
77	0.1	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 4.91 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.12 min
 Lab File: VX004447.D
 Acq: 10 Sep 2018 14:35

Tgt Ion	Ratio	Lower	Upper
117	100		
119	7.0	78.8	118.2#
121	0.0	24.9	37.3#





#43

Isopropyl Acetate

Concen: 24.90 ug/l

RT: 6.46 min Scan# 871

Delta R.T. -0.00 min

Lab File: VX004447.D

Acq: 10 Sep 2018 14:35

Instrument :

MSVOA_X

ClientSampleId :

PB112704ZHE#04

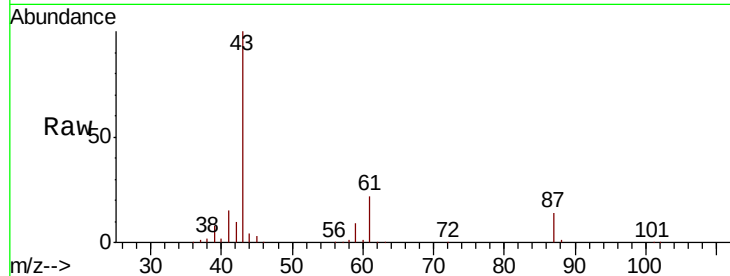
Tot Ion: 43 Resp: 229342

Ion Ratio Lower Upper

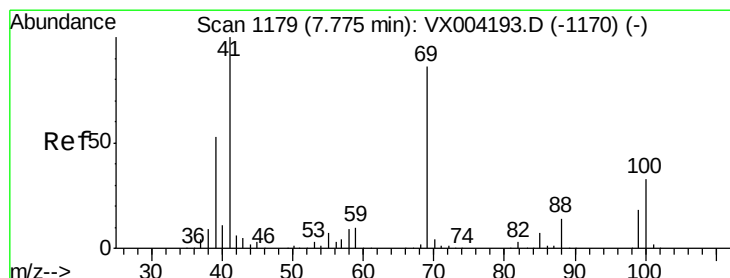
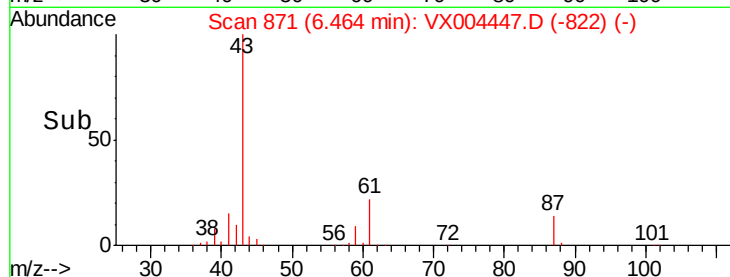
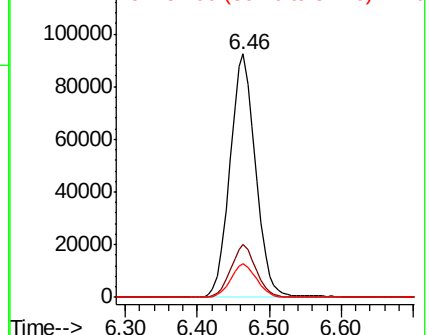
43 100

61 21.2 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

Methyl methacrylate

Concen: 1.91 ug/l

RT: 7.69 min Scan# 1072

Delta R.T. -0.09 min

Lab File: VX004447.D

Acq: 10 Sep 2018 14:35

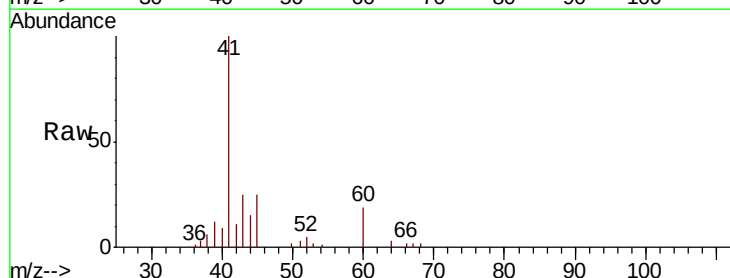
Tgt Ion: 41 Resp: 9422

Ion Ratio Lower Upper

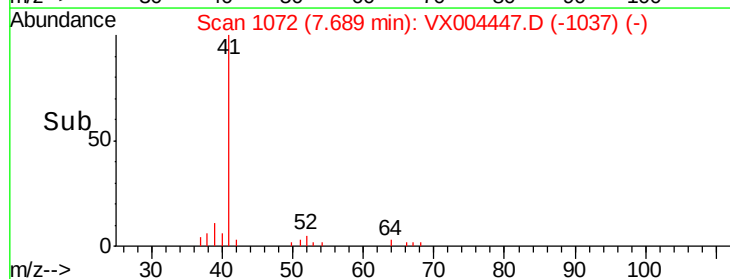
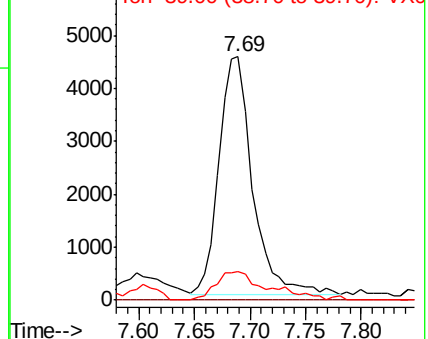
41 100

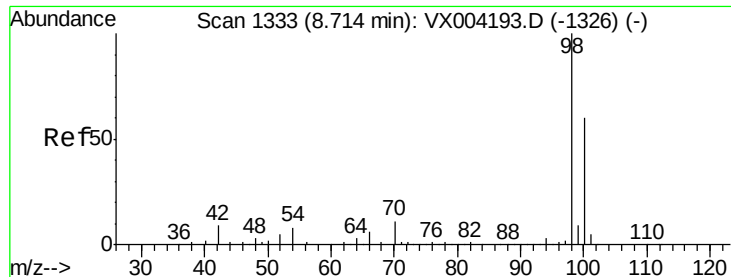
69 0.0 70.2 105.4#

39 18.3 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: 50.91 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX004447.D

Acq: 10 Sep 2018 14:35

Instrument :

MSVOA_X

ClientSampleId :

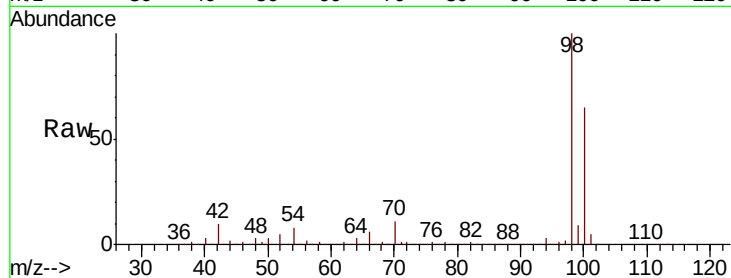
PB112704ZHE#04

Tot Ion: 98 Resp: 775012

Ion Ratio Lower Upper

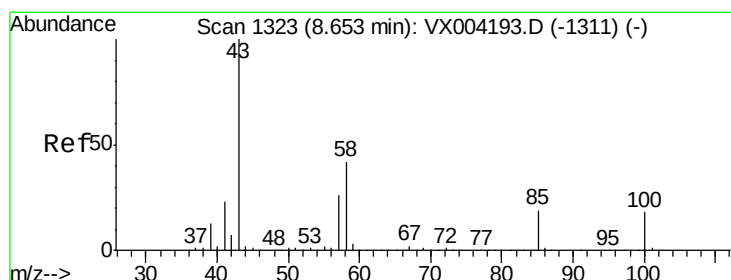
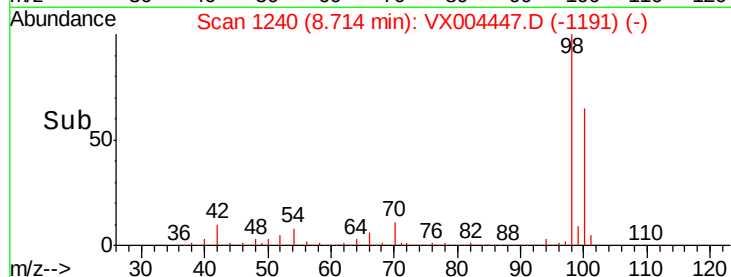
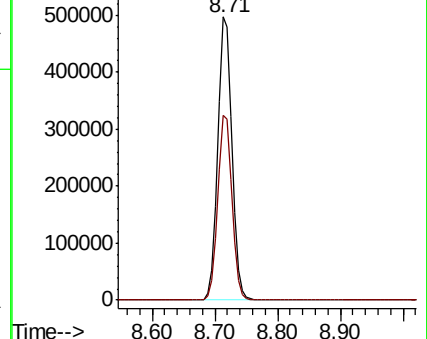
98 100

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): VX0



#51

4-Methyl-2-Pentanone

Concen: 0.53 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. -0.03 min

Lab File: VX004447.D

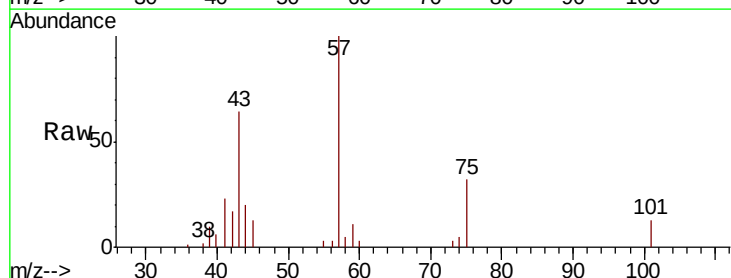
Acq: 10 Sep 2018 14:35

Tgt Ion: 43 Resp: 3547

Ion Ratio Lower Upper

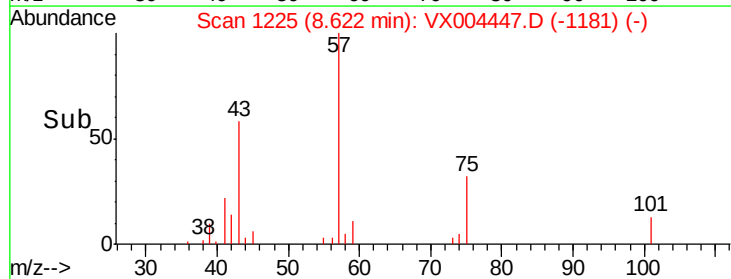
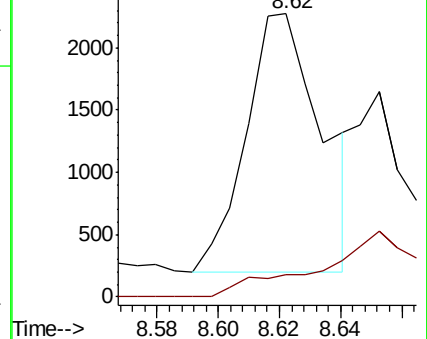
43 100

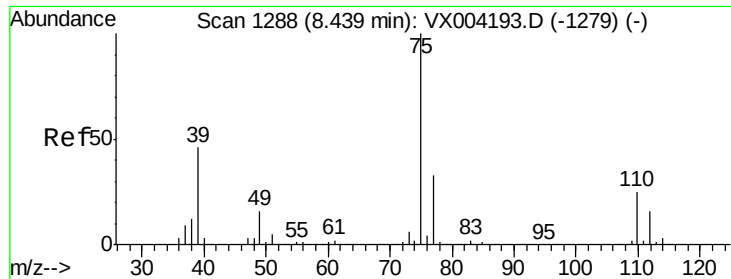
58 0.0 33.1 49.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

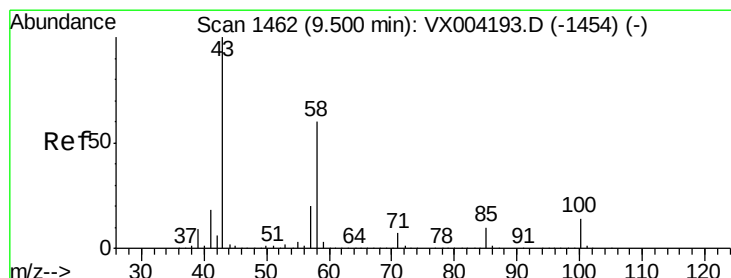
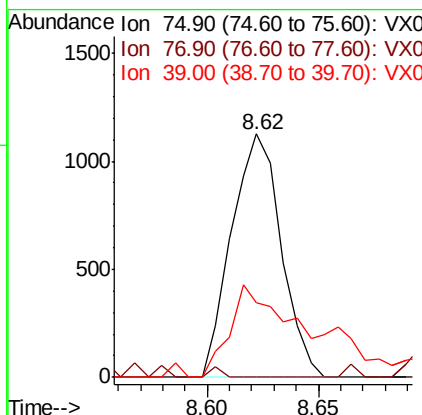
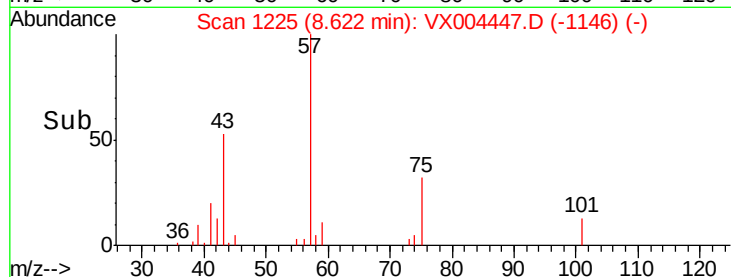
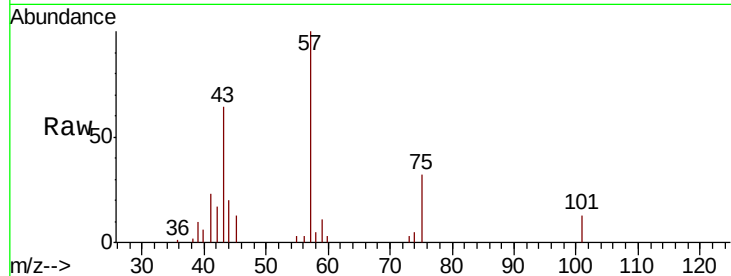




#54
 cis-1,3-Dichloropropene
 Concen: 0.26 ug/l
 RT: 8.62 min Scan# 1225
 Delta R.T. 0.18 min
 Lab File: VX004447.D
 Acq: 10 Sep 2018 14:35

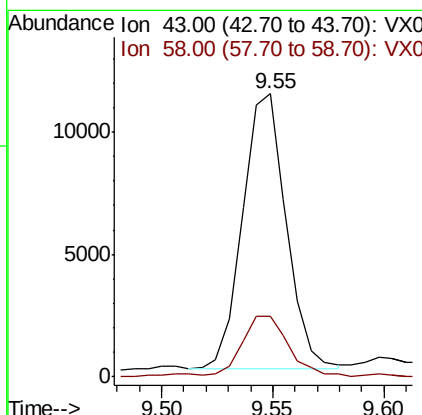
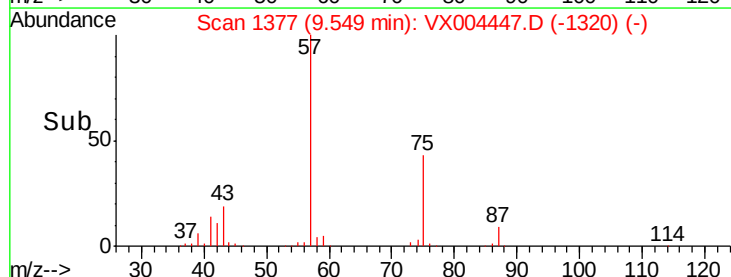
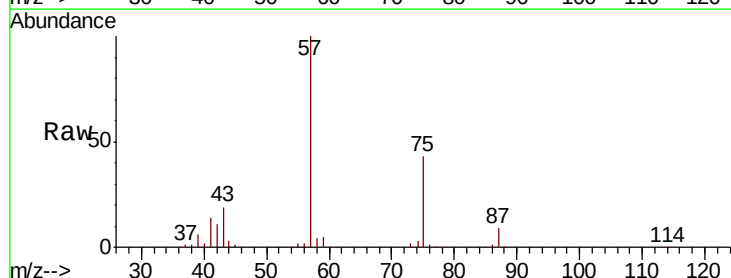
Instrument :
 MSVOA_X
 ClientSampleId :
 PB112704ZHE#04

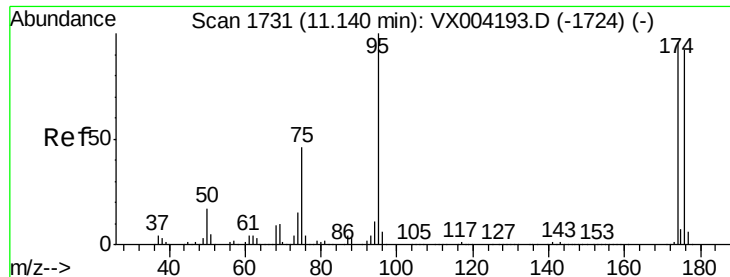
Tot Ion: 75 Resp: 1741
 Ion Ratio Lower Upper
 75 100
 77 0.0 26.2 39.2#
 39 30.4 36.4 54.6#



#59
 2-Hexanone
 Concen: 2.98 ug/l
 RT: 9.55 min Scan# 1377
 Delta R.T. 0.05 min
 Lab File: VX004447.D
 Acq: 10 Sep 2018 14:35

Tgt Ion: 43 Resp: 15230
 Ion Ratio Lower Upper
 43 100
 58 23.9 29.0 87.0#

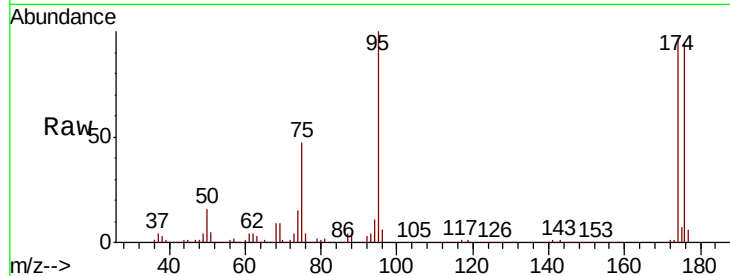




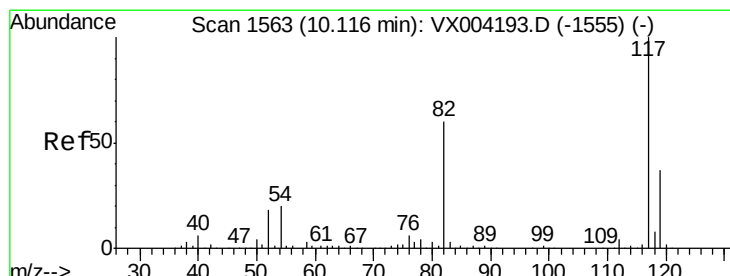
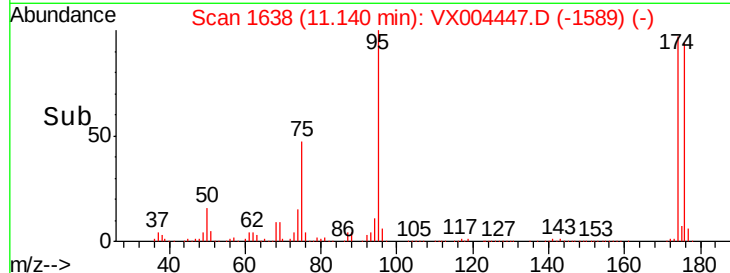
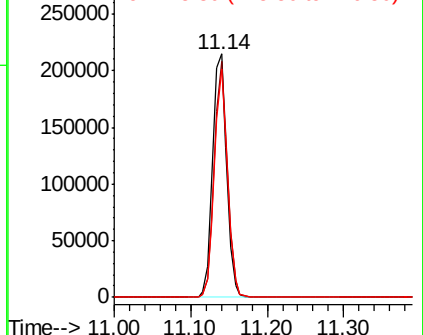
#62
4-Bromofluorobenzene
Concen: 47.98 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX004447.D
Acq: 10 Sep 2018 14:35

Instrument :
MSVOA_X
ClientSampleId :
PB112704ZHE#04

Tot Ion: 95 Resp: 272532
Ion Ratio Lower Upper
95 100
174 92.2 0.0 185.2
176 88.9 0.0 178.6

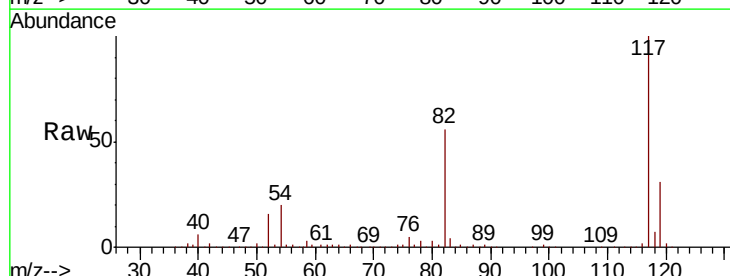


Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

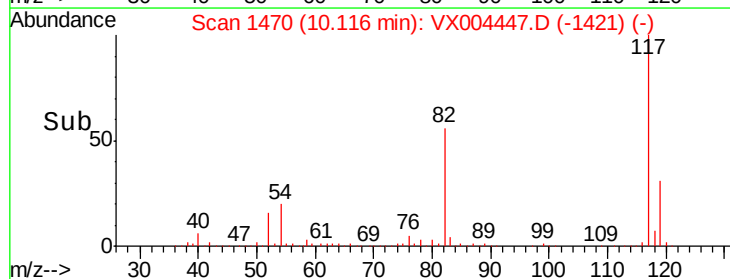
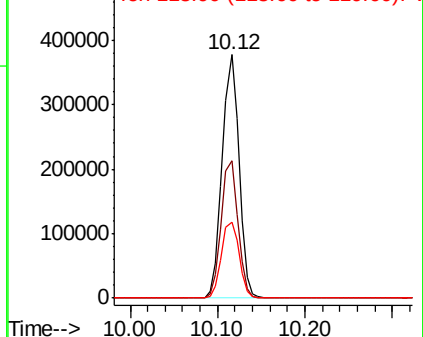


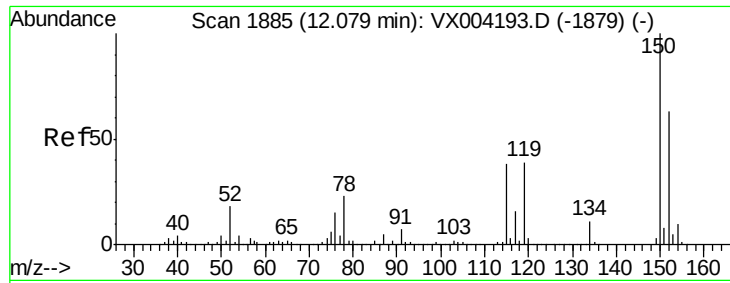
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX004447.D
Acq: 10 Sep 2018 14:35

Tgt Ion: 117 Resp: 500628
Ion Ratio Lower Upper
117 100
82 56.3 47.8 71.6
119 31.4 29.3 43.9



Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX004447.D

Acq: 10 Sep 2018 14:35

Instrument :

MSVOA_X

ClientSampleId :

PB112704ZHE#04

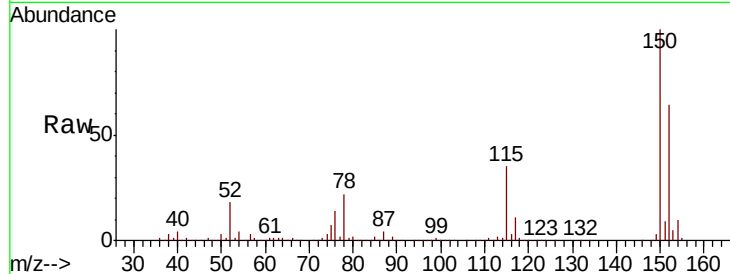
Tot Ion:152 Resp: 286802

Ion Ratio Lower Upper

152 100

115 54.3 39.0 117.0

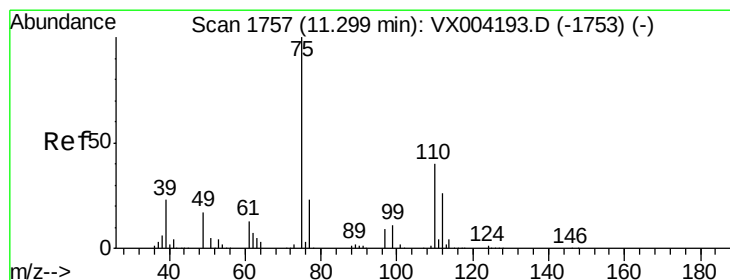
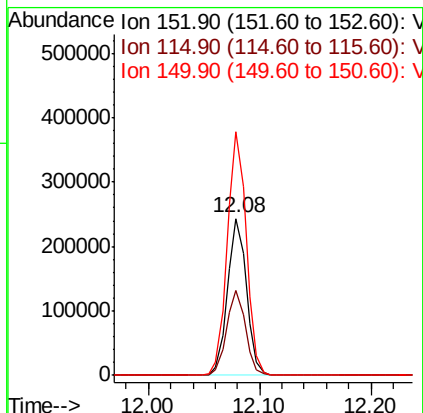
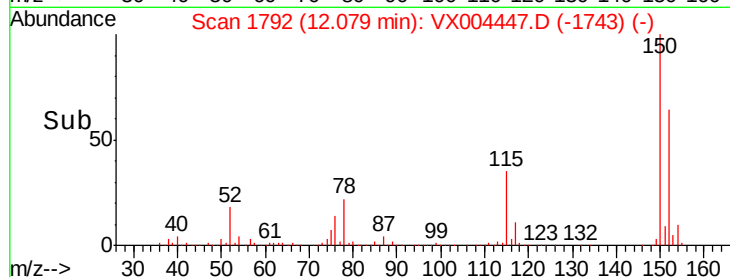
150 155.9 0.0 351.0



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: 21.82 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004447.D

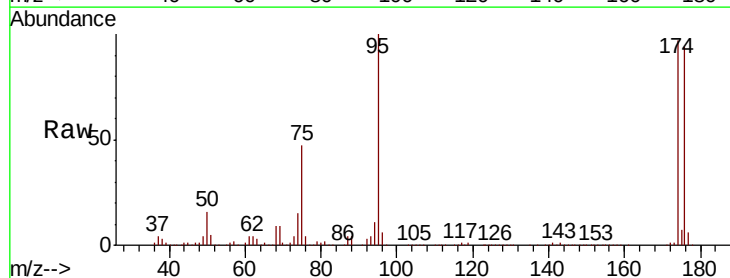
Acq: 10 Sep 2018 14:35

Tgt Ion: 75 Resp: 127297

Ion Ratio Lower Upper

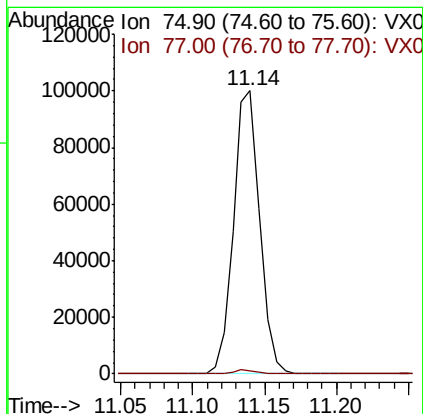
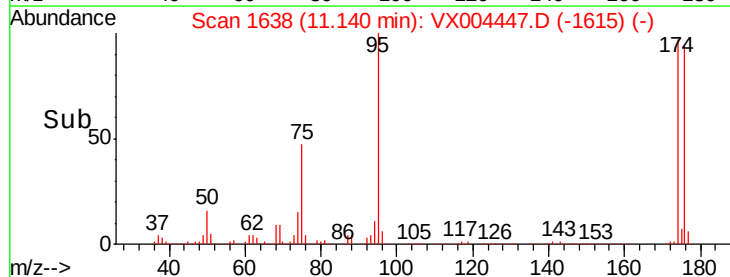
75 100

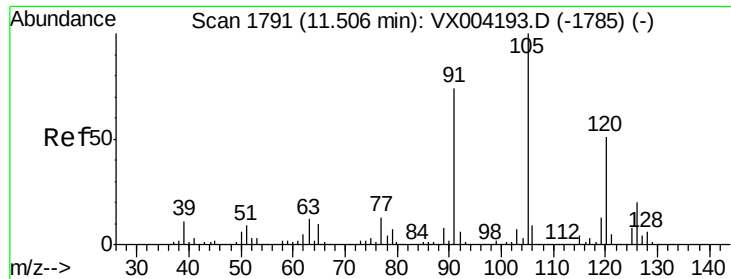
77 1.3 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

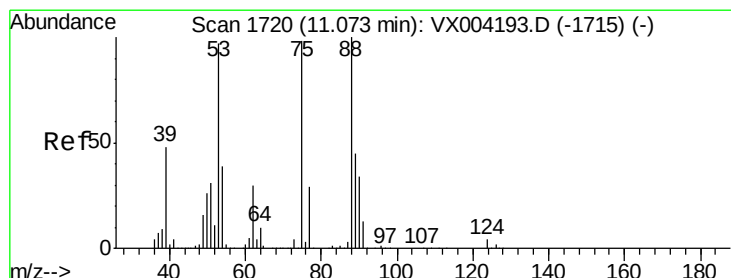
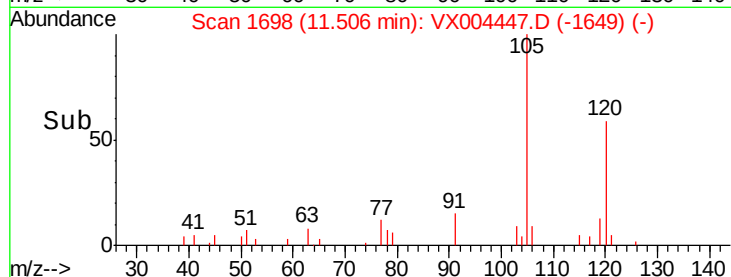
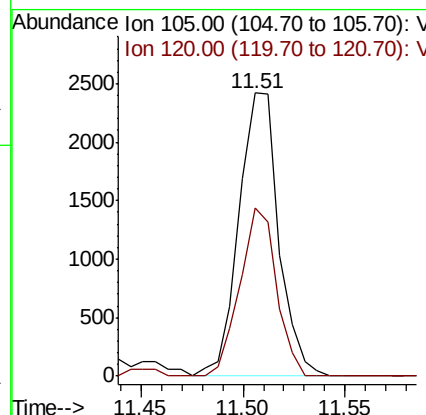
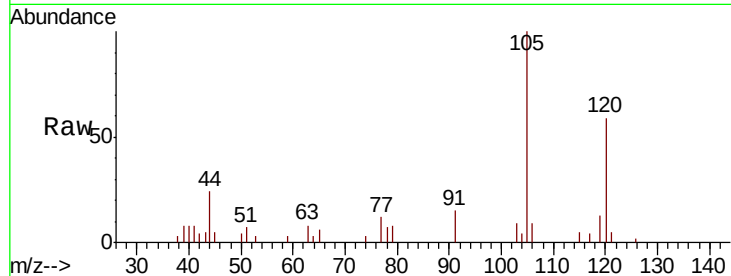




#80
 1,3,5-Trimethylbenzene
 Concen: 0.21 ug/l
 RT: 11.51 min Scan# 1698
 Delta R.T. -0.00 min
 Lab File: VX004447.D
 Acq: 10 Sep 2018 14:35

Instrument :
 MSVOA_X
 ClientSampleId :
 PB112704ZHE#04

Tot Ion:105 Resp: 3272
 Ion Ratio Lower Upper
 105 100
 120 54.6 25.6 76.8



#81
 trans-1,4-Dichloro-2-butene
 Concen: 70.81 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. 0.07 min
 Lab File: VX004447.D
 Acq: 10 Sep 2018 14:35

Tgt Ion: 75 Resp: 127297
 Ion Ratio Lower Upper
 75 100
 53 0.2 80.1 120.1#
 89 0.0 37.2 55.8#

