

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101018\
 Data File : VX005216.D
 Acq On : 10 Oct 2018 19:34
 Operator : JC/MD
 Sample : J5317-18
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-TT-ERB02-20181005

Quant Time: Oct 11 06:07:16 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092618W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 03 04:00:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	169590	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	276253	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	272730	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	155154	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	134065	55.34	ug/l	0.00
Spiked Amount			Recovery	=	110.68%	
35) Dibromofluoromethane	5.51	113	113319	48.40	ug/l	0.00
Spiked Amount			Recovery	=	96.80%	
50) Toluene-d8	8.72	98	400048	51.40	ug/l	0.00
Spiked Amount			Recovery	=	102.80%	
62) 4-Bromofluorobenzene	11.14	95	143226	51.08	ug/l	0.00
Spiked Amount			Recovery	=	102.16%	

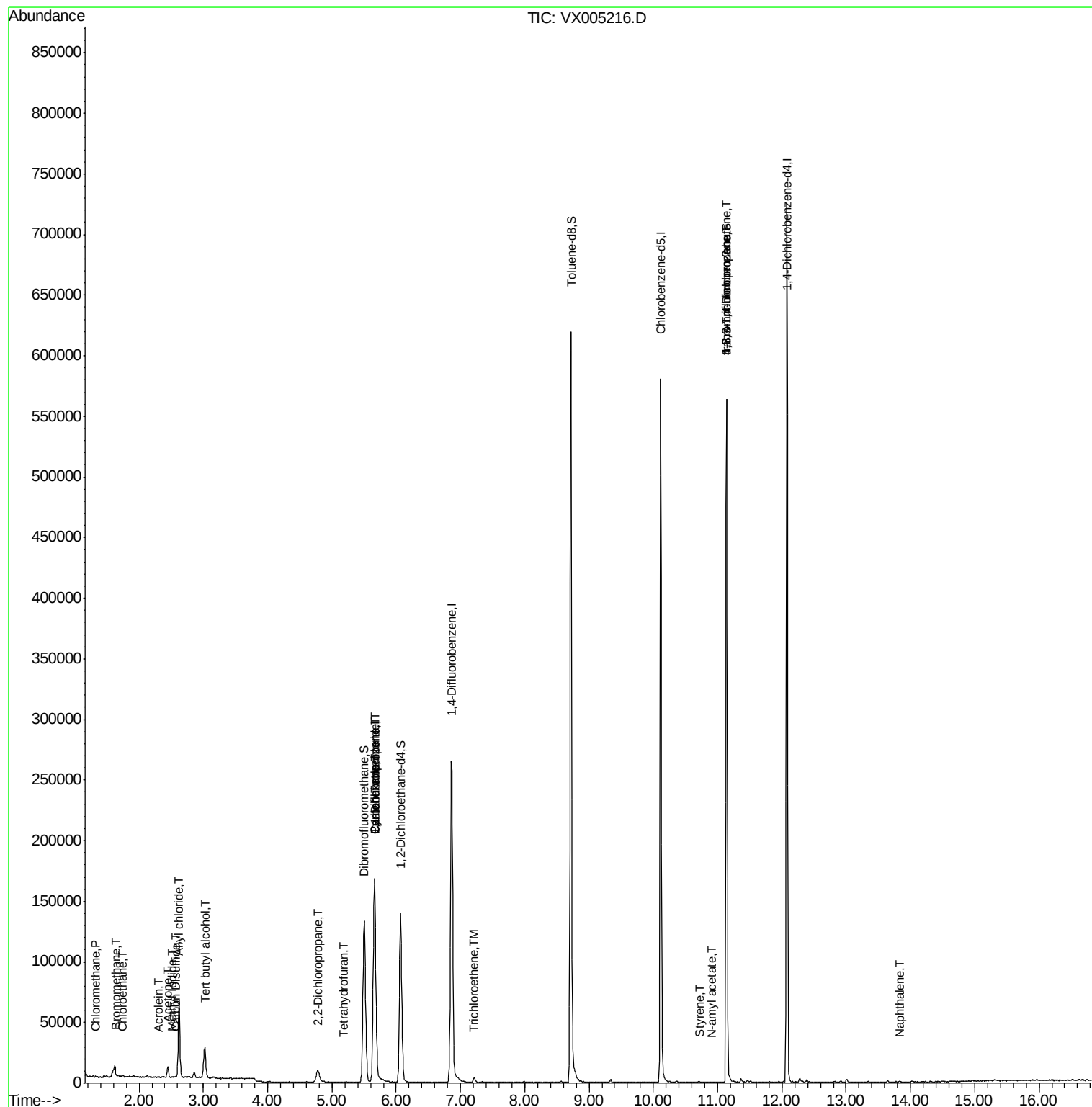
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	671	0.239	ug/l #	70
5) Bromomethane	1.64	94	427	0.274	ug/l #	69
6) Chloroethane	1.75	64	3696	0.262	ug/l #	45
10) Methyl Iodide	2.52	142	658	0.265	ug/l #	91
11) Tert butyl alcohol	3.02	59	15743	23.241	ug/l #	73
13) Acrolein	2.29	56	238	0.494	ug/l #	43
14) Allyl chloride	2.62	41	6571	1.639	ug/l #	60
16) Acetone	2.45	43	9457	6.686	ug/l #	89
17) Carbon Disulfide	2.57	76	1166	0.211	ug/l #	89
26) 2,2-Dichloropropane	4.79	77	945	0.337	ug/l #	50
29) Tetrahydrofuran	5.18	42	336	0.259	ug/l #	39
31) Cyclohexane	5.67	56	3565	1.157	ug/l #	4
36) 1,1-Dichloropropene	5.67	75	12410	3.885	ug/l #	46
38) Carbon Tetrachloride	5.67	117	15358	4.574	ug/l #	18
44) Trichloroethene	7.21	130	1593	0.648	ug/l	79
70) Styrene	10.72	104	148	2.159	ug/l #	60
74) N-amyl acetate	10.91	43	23	1.752	ug/l #	7
76) 1,2,3-Trichloropropane	11.14	75	70573	20.294	ug/l #	35
80) 1,3,5-Trimethylbenzene	11.51	105	296	Below Cal		97
81) trans-1,4-Dichloro-2-buten	11.14	75	70573	55.136	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.81	105	340	Below Cal		69
95) Naphthalene	13.83	128	674	0.771	ug/l #	80

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX005216.D

Acq: 10 Oct 2018 19:34

Instrument :

MSVOA_X

ClientSampleId :

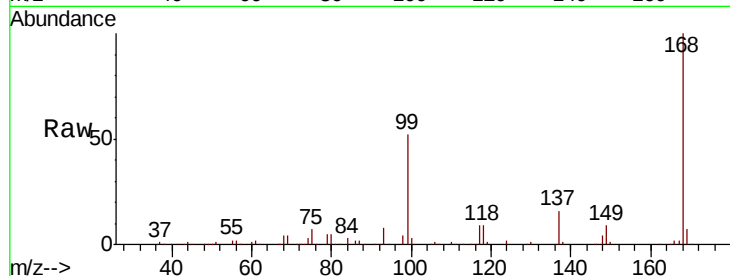
BP-TT-ERB02-20181005

Tot Ion:168 Resp: 169590

Ion Ratio Lower Upper

168 100

99 52.3 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

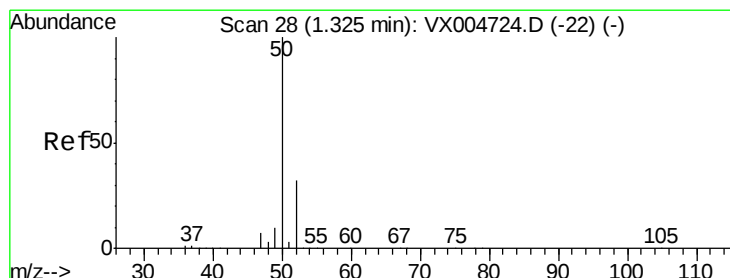
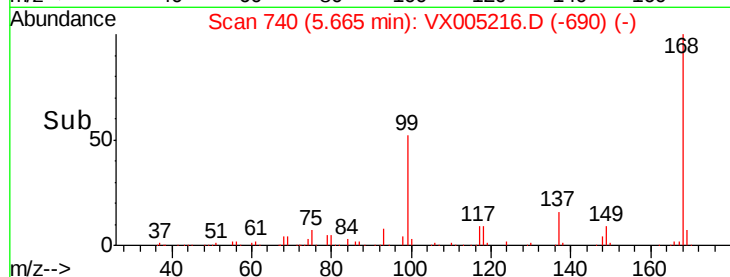
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.239 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX005216.D

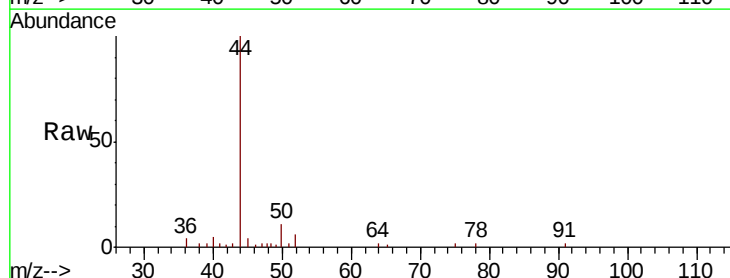
Acq: 10 Oct 2018 19:34

Tgt Ion: 50 Resp: 671

Ion Ratio Lower Upper

50 100

52 49.1 25.8 38.6#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

500

400

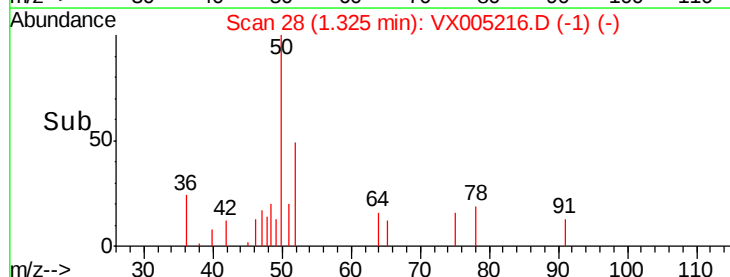
300

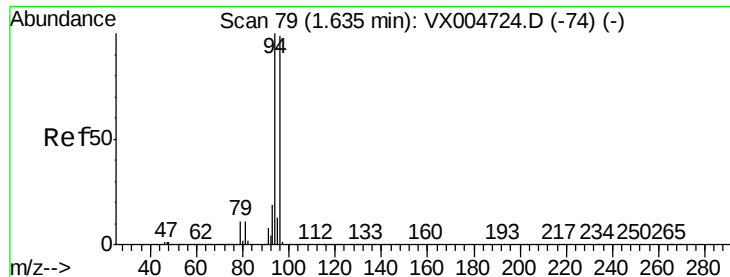
200

100

0

Time--> 1.30 1.35 1.40





#5

Bromomethane

Concen: 0.274 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX005216.D

Acq: 10 Oct 2018 19:34

Instrument :

MSVOA_X

ClientSampleId :

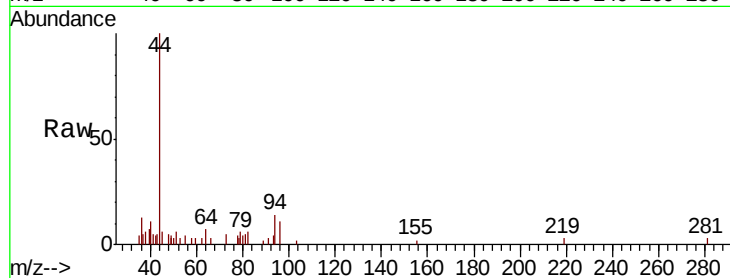
BP-TT-ERB02-20181005

Tot Ion: 94 Resp: 427

Ion Ratio Lower Upper

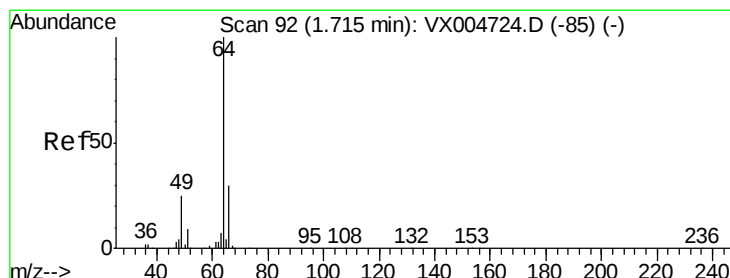
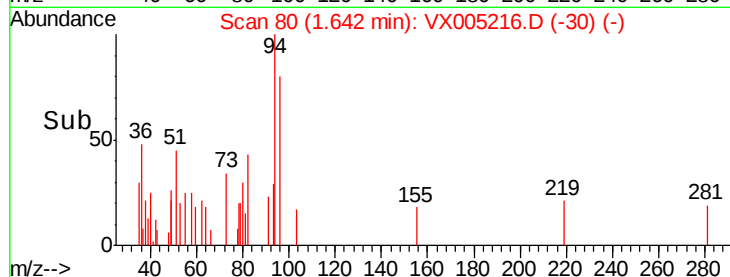
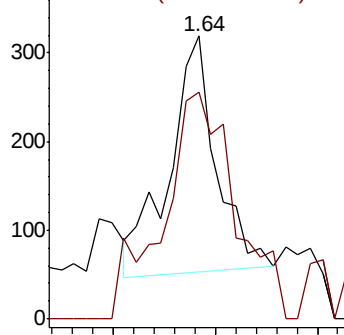
94 100

96 68.8 79.5 119.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 0.262 ug/l

RT: 1.75 min Scan# 97

Delta R.T. 0.03 min

Lab File: VX005216.D

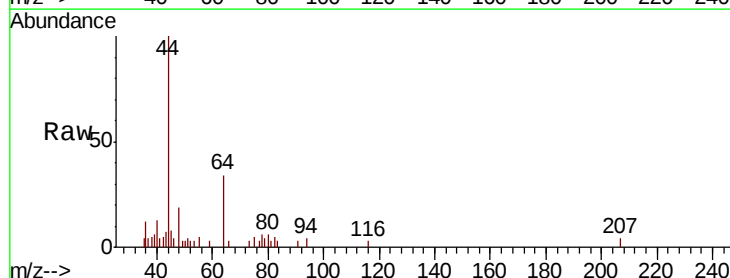
Acq: 10 Oct 2018 19:34

Tgt Ion: 64 Resp: 3696

Ion Ratio Lower Upper

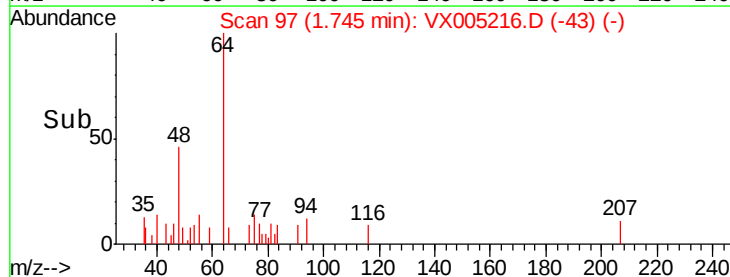
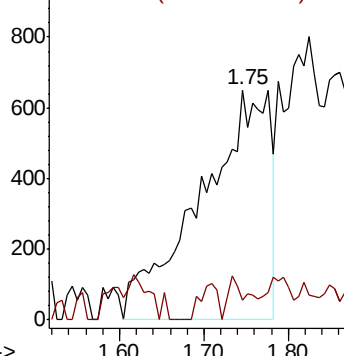
64 100

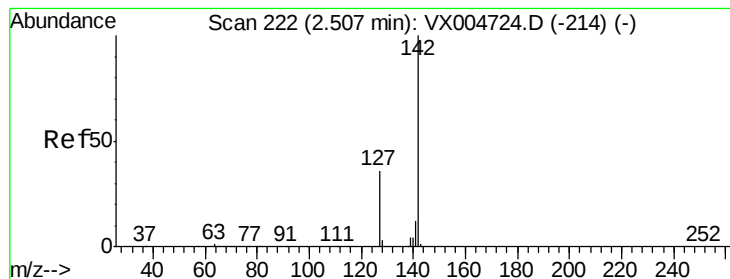
66 0.0 23.8 35.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#10

Methvl Iodide

Concen: 0.265 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX005216.D

Acq: 10 Oct 2018 19:34

Instrument :

MSVOA_X

ClientSampleId :

BP-TT-ERB02-20181005

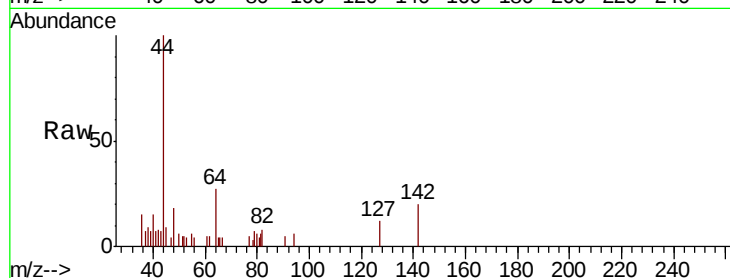
Tot Ion:142 Resp: 658

Ion Ratio Lower Upper

142 100

127 36.5 30.1 45.1

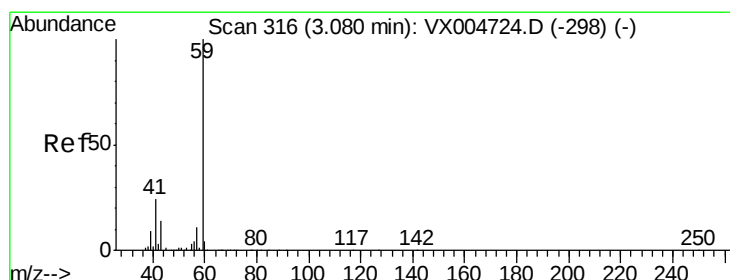
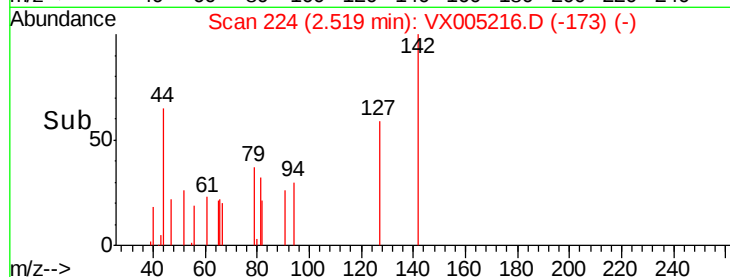
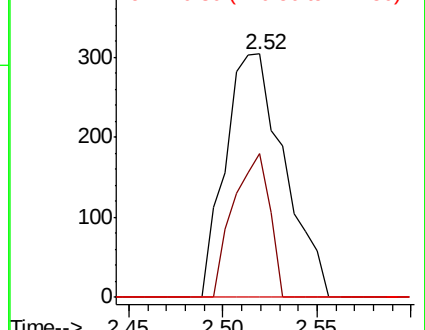
141 0.0 10.1 15.1#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



#11

Tert butyl alcohol

Concen: 23.241 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.06 min

Lab File: VX005216.D

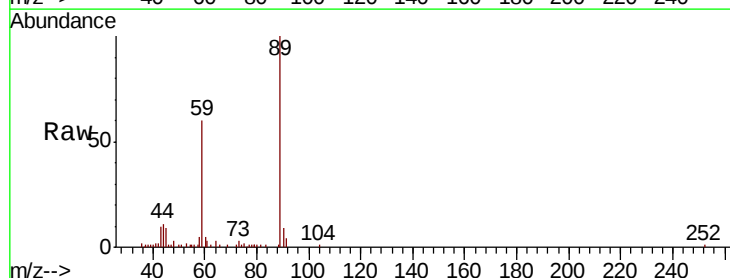
Acq: 10 Oct 2018 19:34

Tgt Ion: 59 Resp: 15743

Ion Ratio Lower Upper

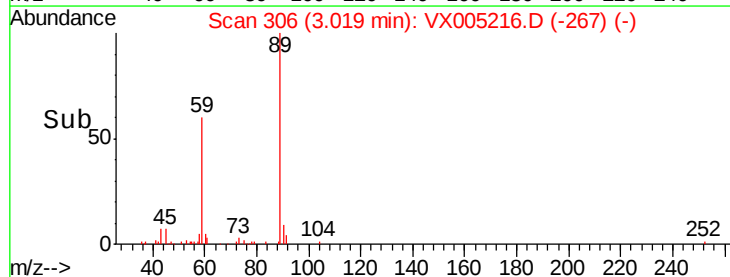
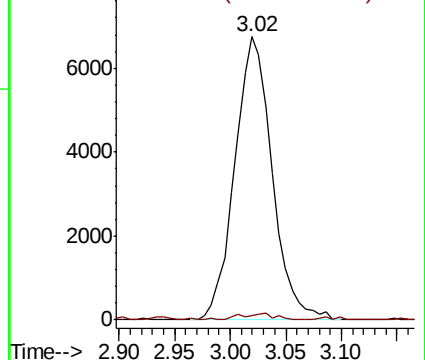
59 100

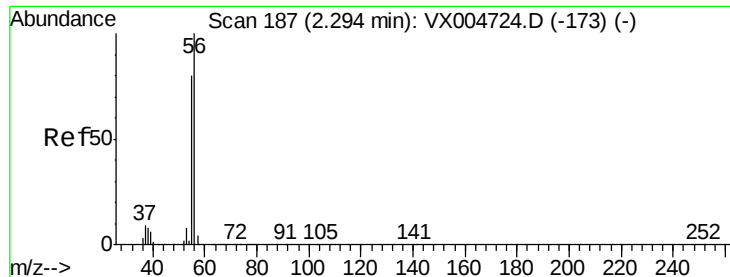
57 0.7 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.494 ug/l

RT: 2.29 min Scan# 187

Delta R.T. 0.00 min

Lab File: VX005216.D

Acq: 10 Oct 2018 19:34

Instrument :

MSVOA_X

ClientSampleId :

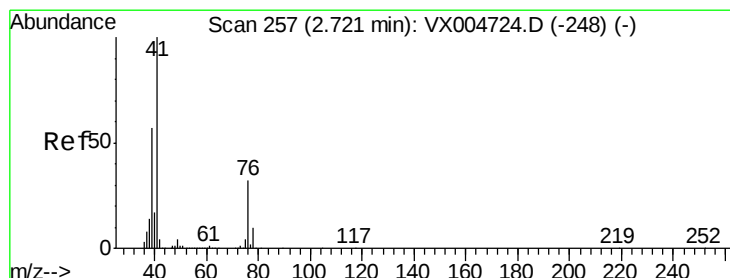
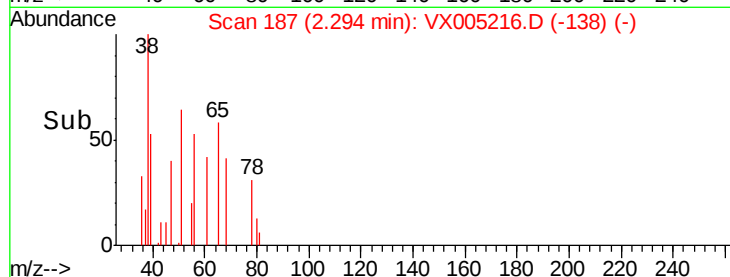
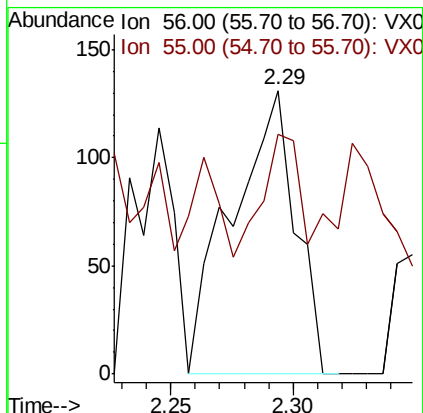
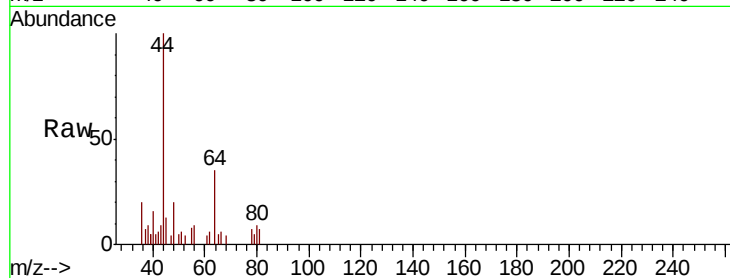
BP-TT-ERB02-20181005

Tot Ion: 56 Resp: 238

Ion Ratio Lower Upper

56 100

55 29.4 63.4 95.2#



#14

Allyl chloride

Concen: 1.639 ug/l

RT: 2.62 min Scan# 241

Delta R.T. -0.10 min

Lab File: VX005216.D

Acq: 10 Oct 2018 19:34

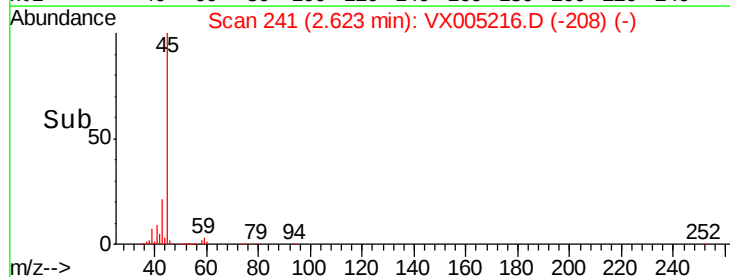
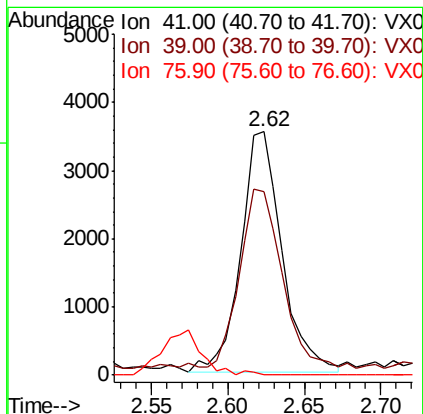
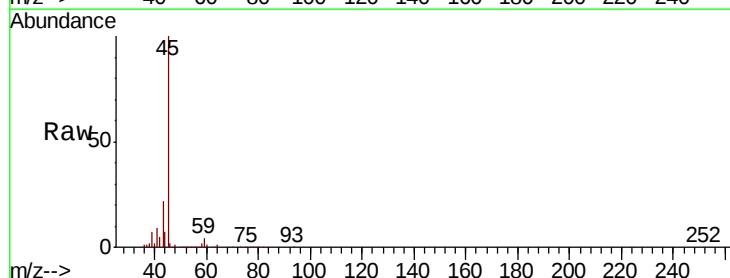
Tgt Ion: 41 Resp: 6571

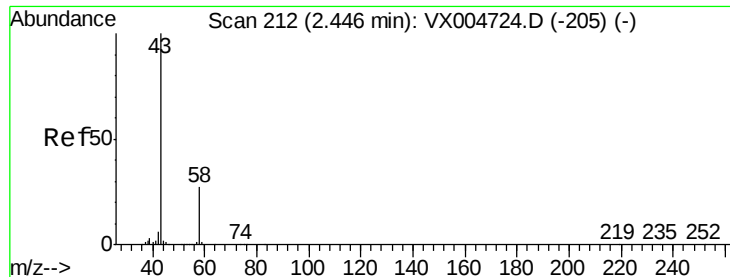
Ion Ratio Lower Upper

41 100

39 77.5 44.1 66.1#

76 0.0 25.0 37.4#





#16

Acetone

Concen: 6.686 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX005216.D

Acq: 10 Oct 2018 19:34

Instrument :

MSVOA_X

ClientSampleId :

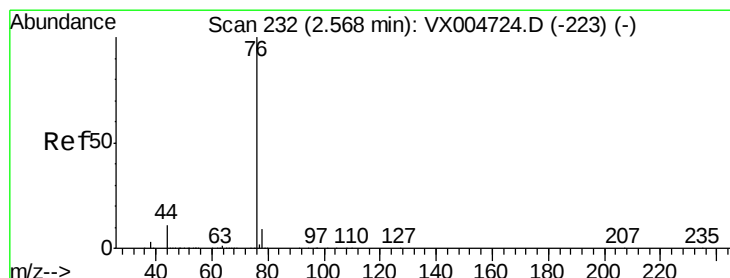
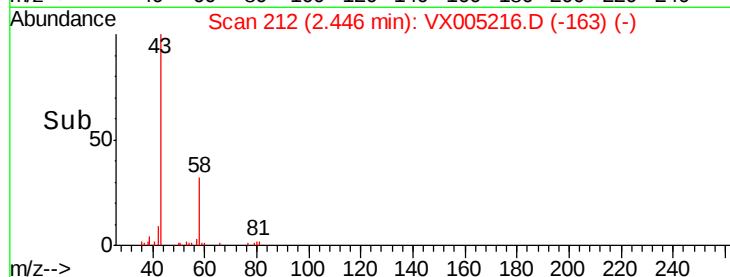
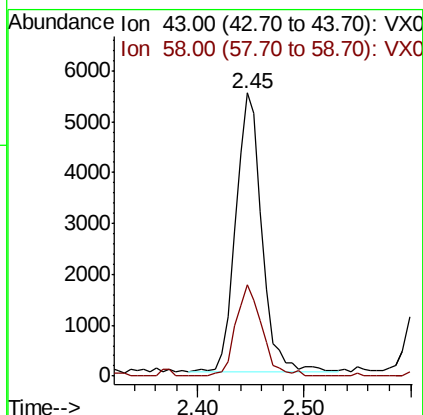
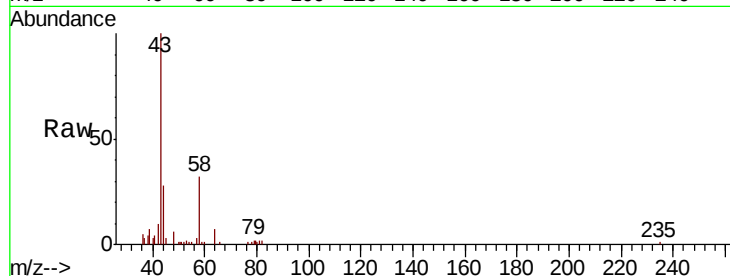
BP-TT-ERB02-20181005

Tot Ion: 43 Resp: 9457

Ion Ratio Lower Upper

43 100

58 33.0 21.8 32.6#



#17

Carbon Disulfide

Concen: 0.211 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX005216.D

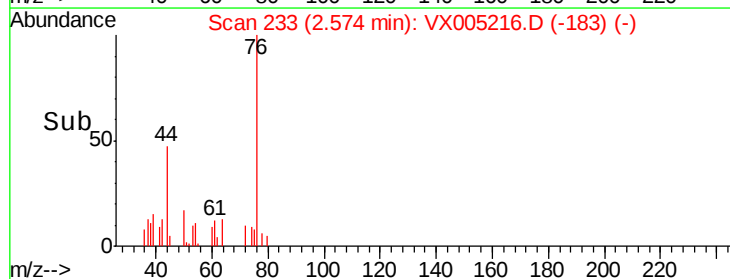
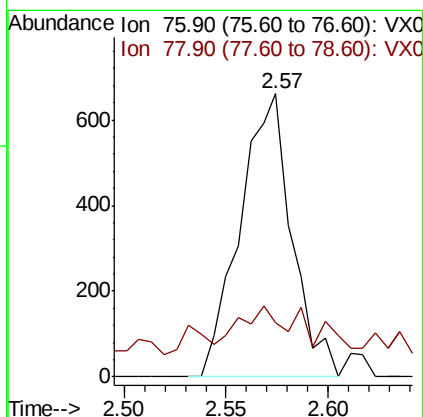
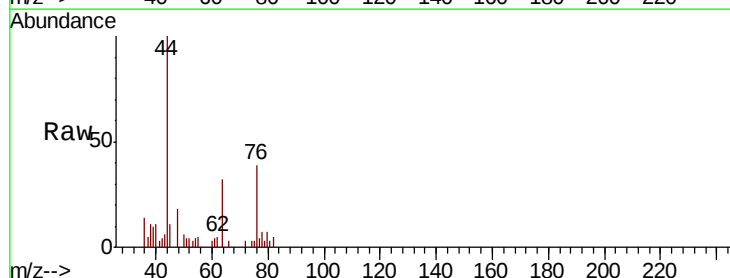
Acq: 10 Oct 2018 19:34

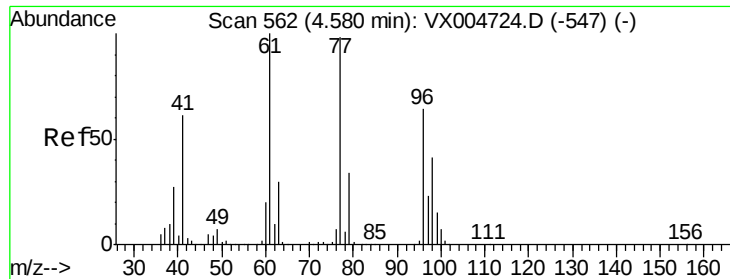
Tgt Ion: 76 Resp: 1166

Ion Ratio Lower Upper

76 100

78 4.7 7.0 10.6#

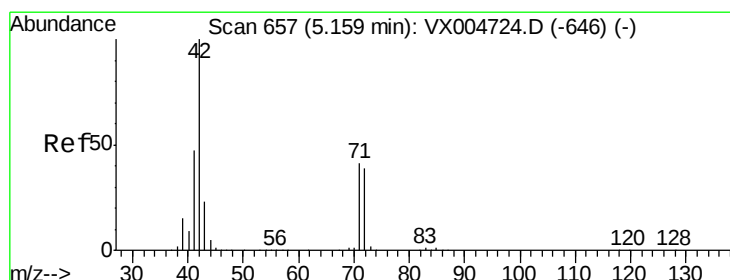
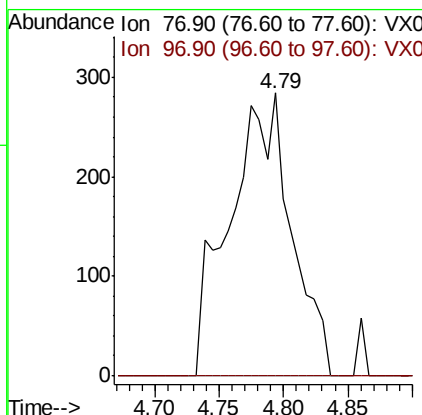
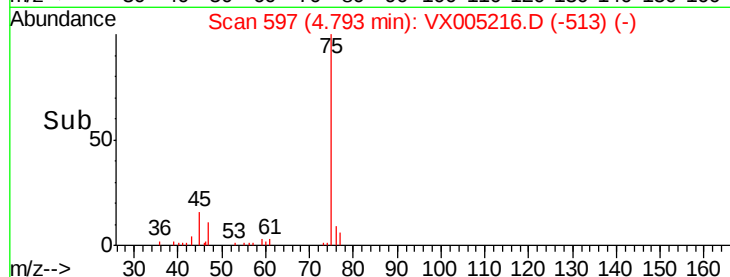
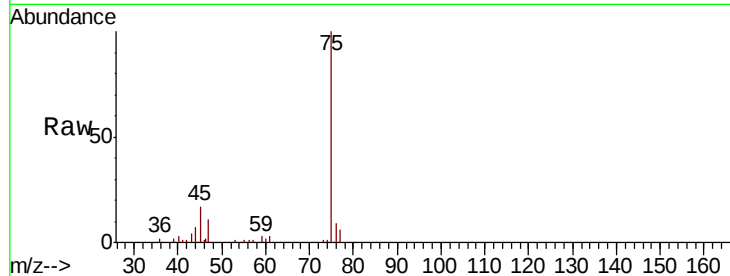




#26
 2,2-Dichloropropane
 Concen: 0.337 ug/l
 RT: 4.79 min Scan# 597
 Delta R.T. 0.21 min
 Lab File: VX005216.D
 Acq: 10 Oct 2018 19:34

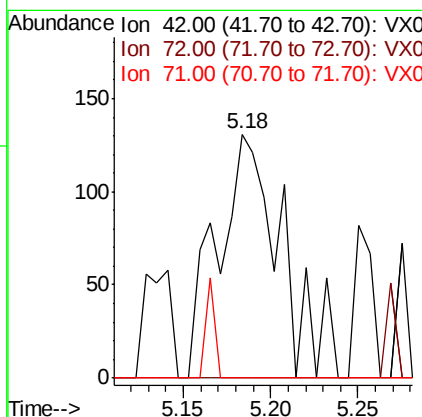
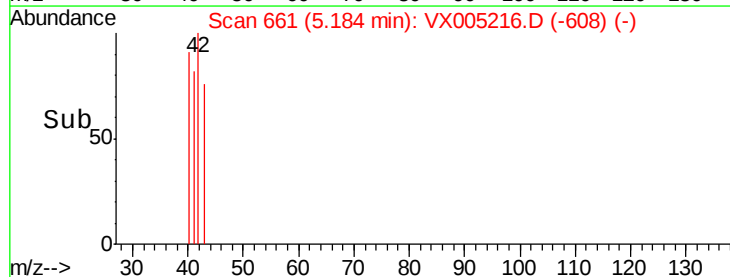
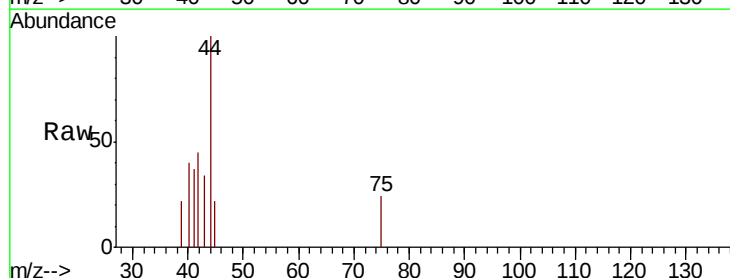
Instrument :
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 BP-TT-ERB02-20181005

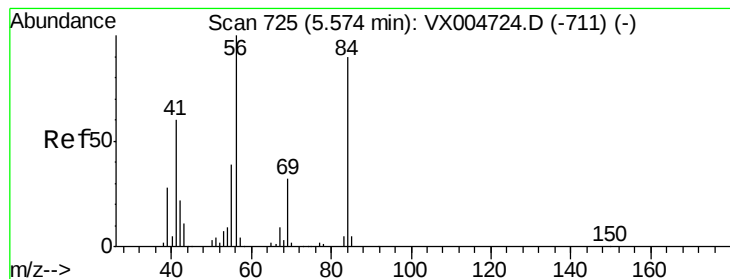
Tot Ion: 77 Resp: 945
 Ion Ratio Lower Upper
 77 100
 97 0.0 12.6 37.8#



#29
 Tetrahydrofuran
 Concen: 0.259 ug/l
 RT: 5.18 min Scan# 661
 Delta R.T. 0.02 min
 Lab File: VX005216.D
 Acq: 10 Oct 2018 19:34

Tgt Ion: 42 Resp: 336
 Ion Ratio Lower Upper
 42 100
 72 0.0 33.7 50.5#
 71 6.0 32.2 48.4#





#31

Cyclohexane

Concen: 1.157 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX005216.D

Acq: 10 Oct 2018 19:34

Instrument :

MSVOA_X

ClientSampleId :

BP-TT-ERB02-20181005

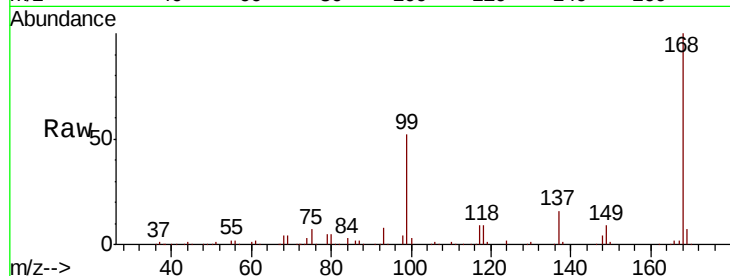
Tot Ion: 56 Resp: 3565

Ion Ratio Lower Upper

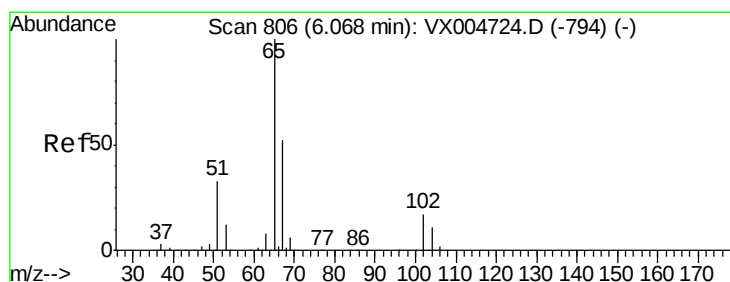
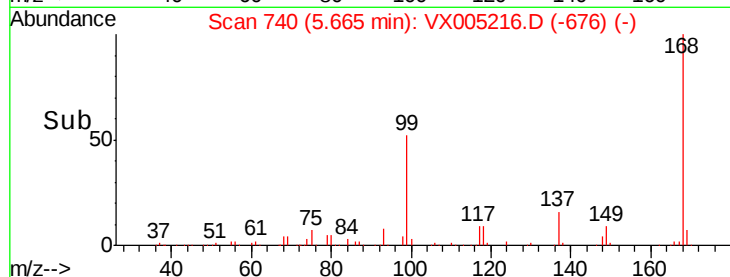
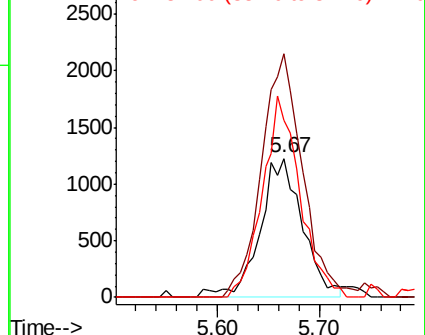
56 100

69 175.0 25.9 38.9#

84 127.0 71.9 107.9#



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: 55.339 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX005216.D

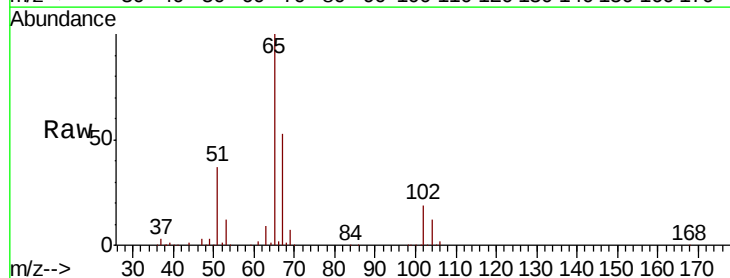
Acq: 10 Oct 2018 19:34

Tgt Ion: 65 Resp: 134065

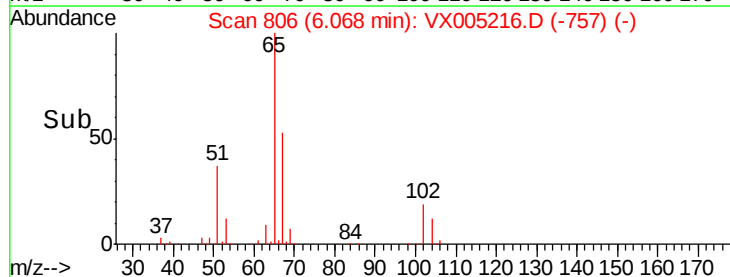
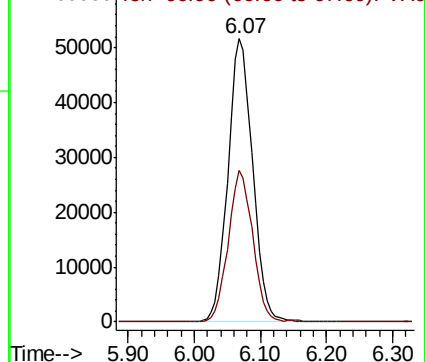
Ion Ratio Lower Upper

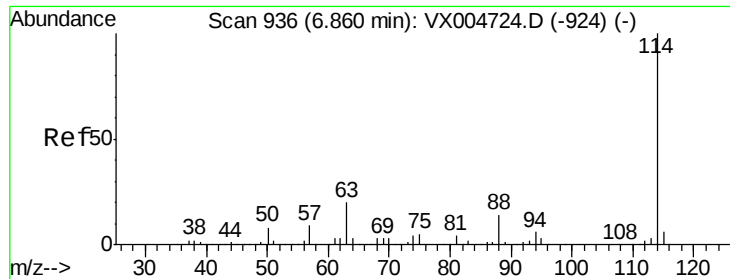
65 100

67 52.6 0.0 107.4



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

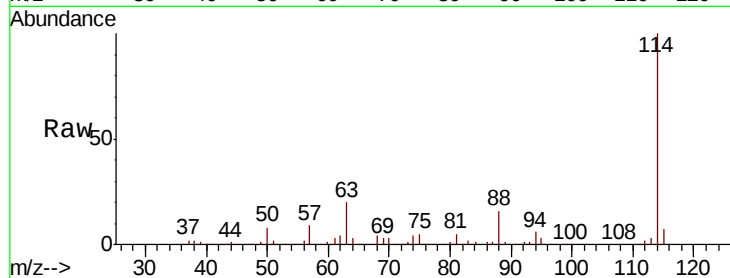




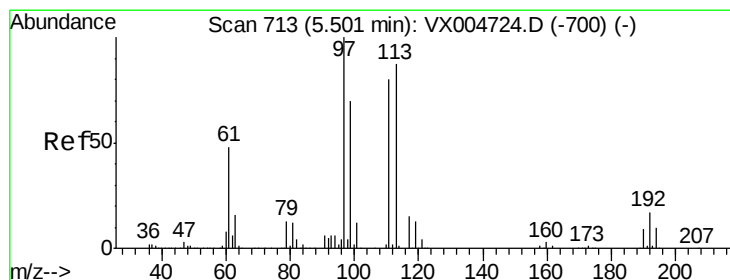
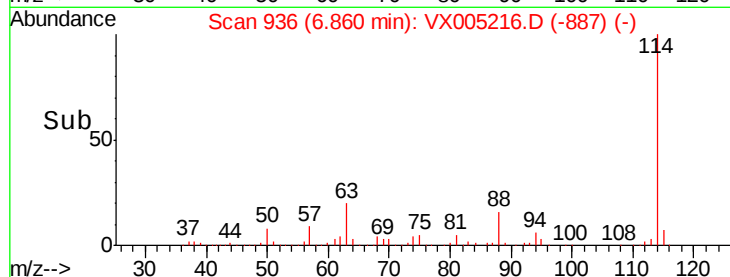
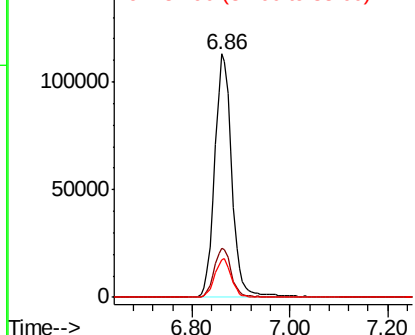
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX005216.D
 Acq: 10 Oct 2018 19:34

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-TT-ERB02-20181005

Tot Ion:114 Resp: 276253
 Ion Ratio Lower Upper
 114 100
 63 20.3 0.0 39.8
 88 15.5 0.0 27.0

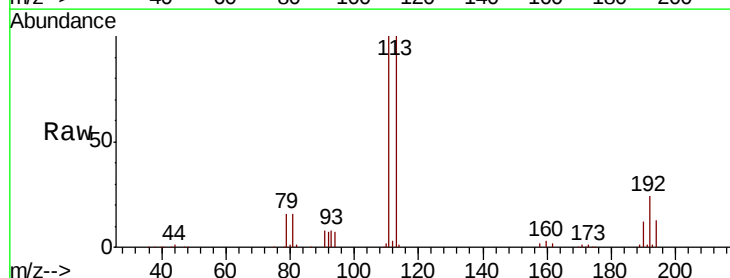


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

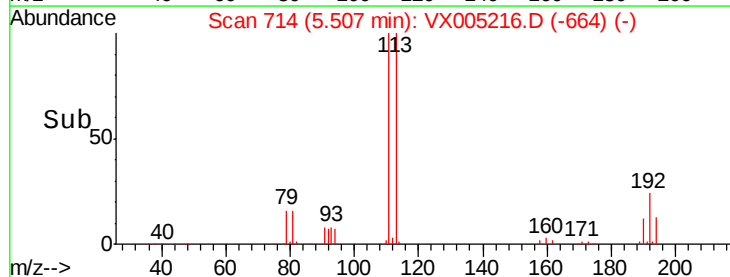
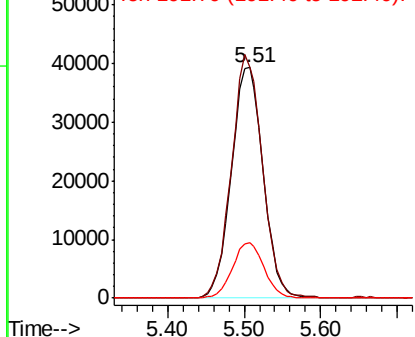


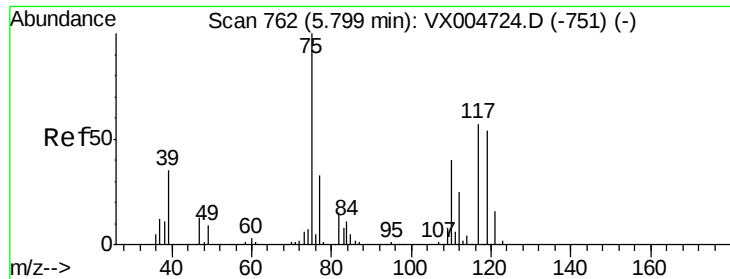
#35
 Dibromofluoromethane
 Concen: 48.400 ug/l
 RT: 5.51 min Scan# 714
 Delta R.T. 0.01 min
 Lab File: VX005216.D
 Acq: 10 Oct 2018 19:34

Tgt Ion:113 Resp: 113319
 Ion Ratio Lower Upper
 113 100
 111 102.6 77.0 115.4
 192 23.9 17.0 25.6



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

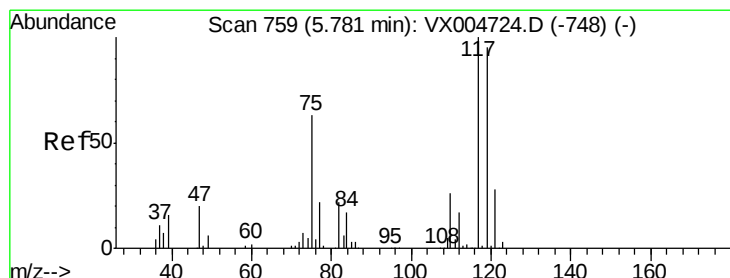
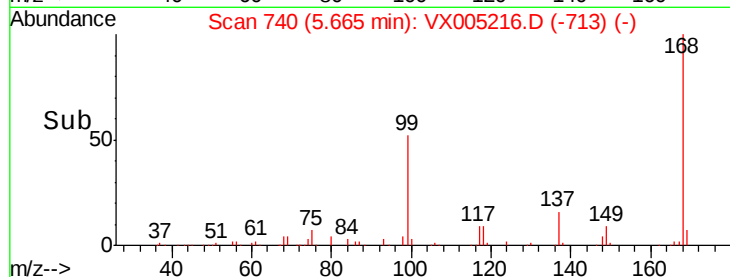
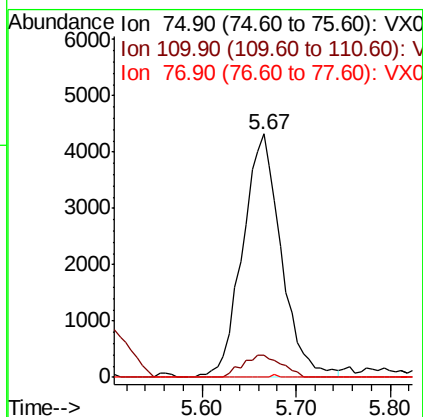
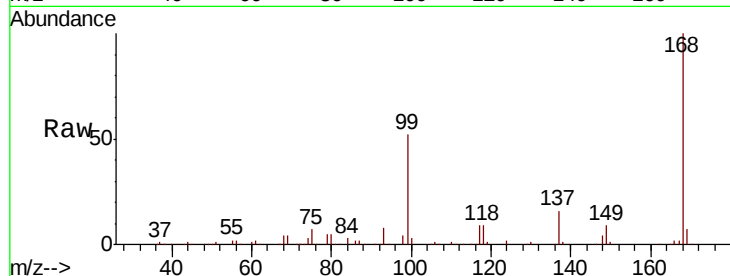




#36
 1,1-Dichloropropene
 Concen: 3.885 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX005216.D
 Acq: 10 Oct 2018 19:34

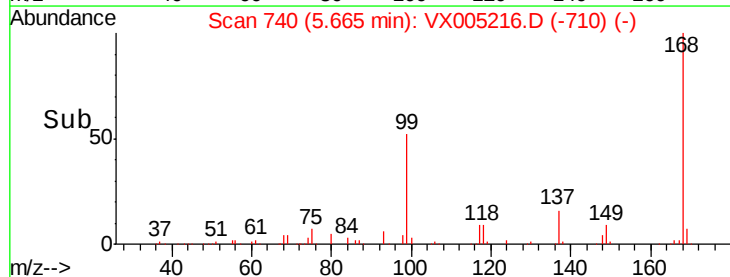
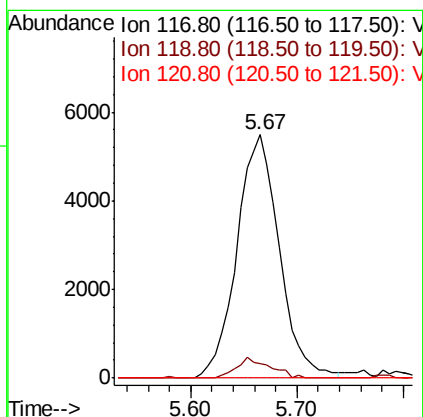
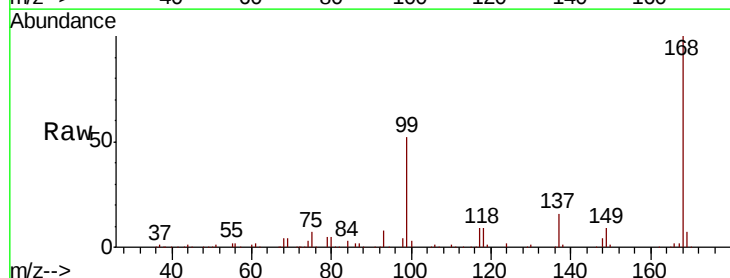
Instrument :
 MSVOA_X
 ClientSampleId :
 BP-TT-ERB02-20181005

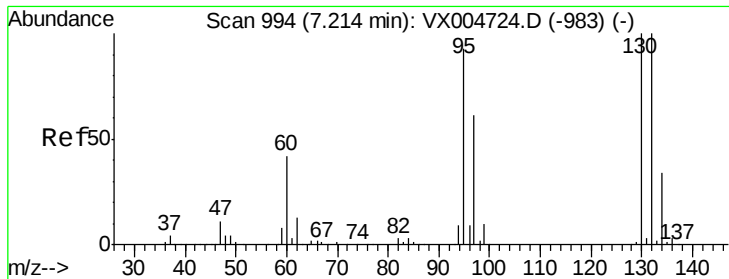
Tot Ion	75	Resp	12410
Ion Ratio	100		
Lower			
Upper			
75	100		
110	9.3	20.0	59.9#
77	0.2	27.1	40.7#



#38
 Carbon Tetrachloride
 Concen: 4.574 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.12 min
 Lab File: VX005216.D
 Acq: 10 Oct 2018 19:34

Tgt Ion	117	Resp	15358
Ion Ratio <td>100</td> <td></td> <td></td>	100		
Lower			
Upper			
117	100		
119	6.0	75.2	112.8#
121	0.0	22.5	33.7#





#44

Trichloroethene

Concen: 0.648 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.00 min

Lab File: VX005216.D

Acq: 10 Oct 2018 19:34

Instrument :

MSVOA_X

ClientSampleId :

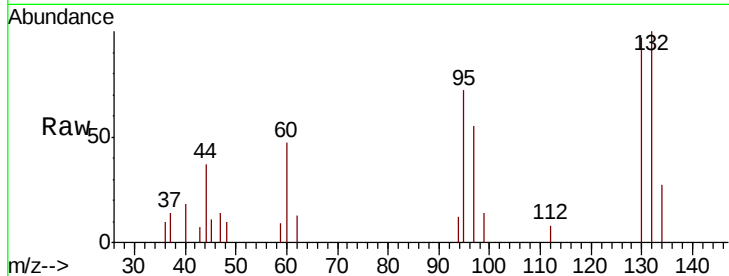
BP-TT-ERB02-20181005

Tot Ion:130 Resp: 1593

Ion Ratio Lower Upper

130 100

95 73.7 0.0 186.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

800

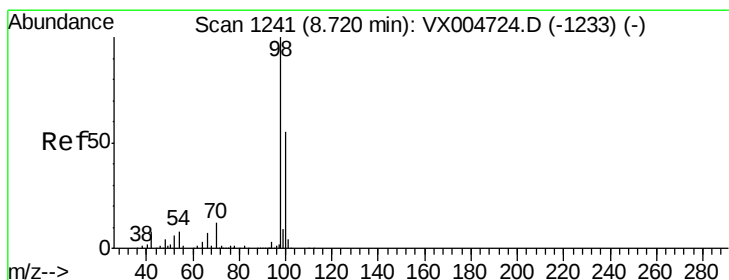
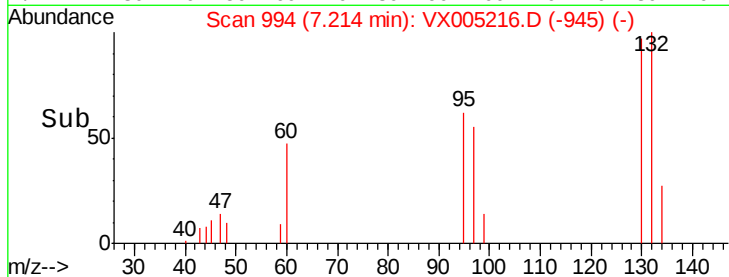
600

400

200

0

Time-->



#50

Toluene-d8

Concen: 51.396 ug/l

RT: 8.72 min Scan# 1241

Delta R.T. 0.00 min

Lab File: VX005216.D

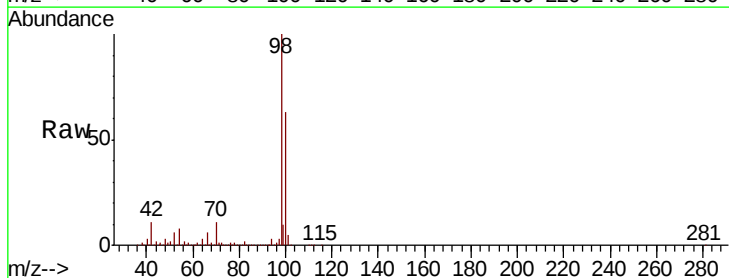
Acq: 10 Oct 2018 19:34

Tgt Ion: 98 Resp: 400048

Ion Ratio Lower Upper

98 100

100 63.0 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

8.72

250000

200000

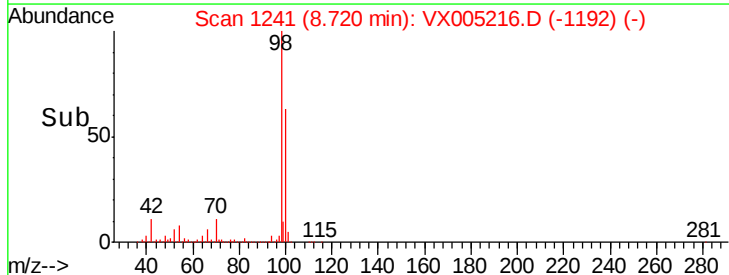
150000

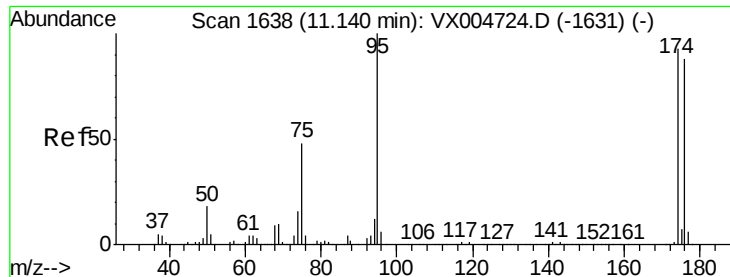
100000

50000

0

Time-->

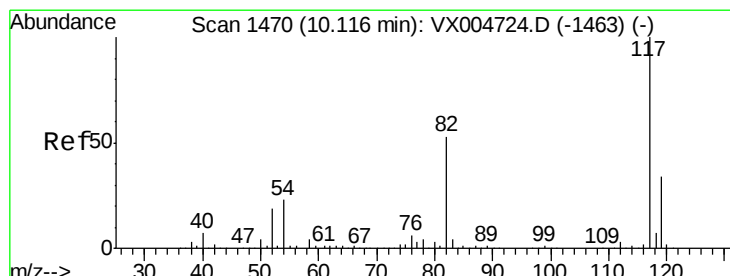
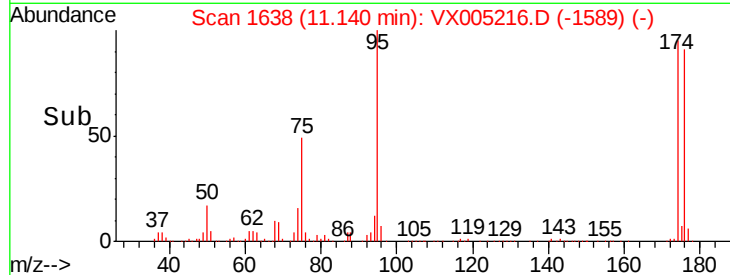
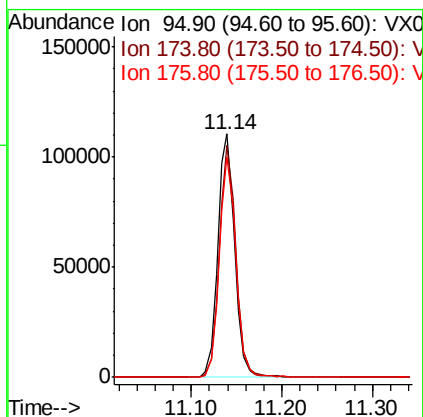
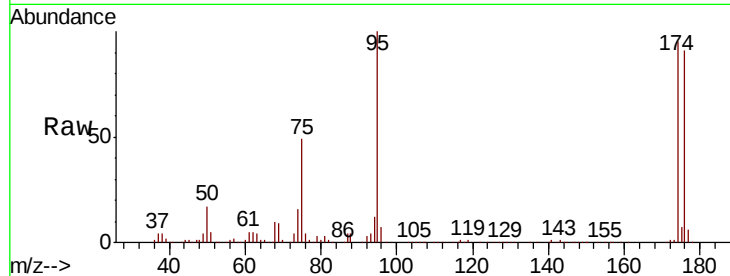




#62
4-Bromofluorobenzene
Concen: 51.078 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. 0.00 min
Lab File: VX005216.D
Acq: 10 Oct 2018 19:34

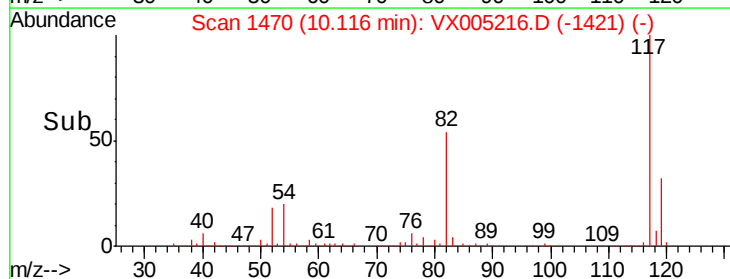
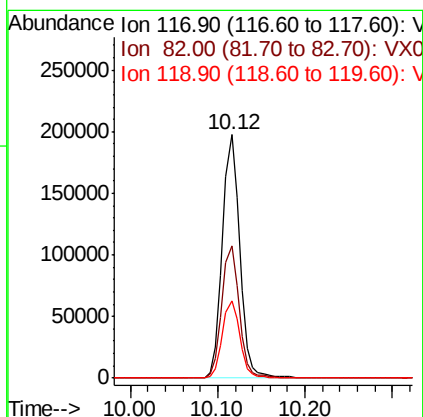
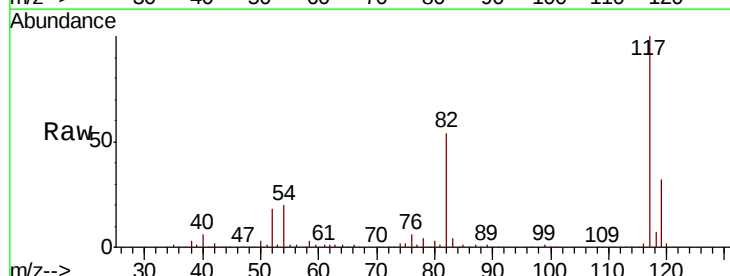
Instrument :
MSVOA_X
ClientSampleId :
BP-TT-ERB02-20181005

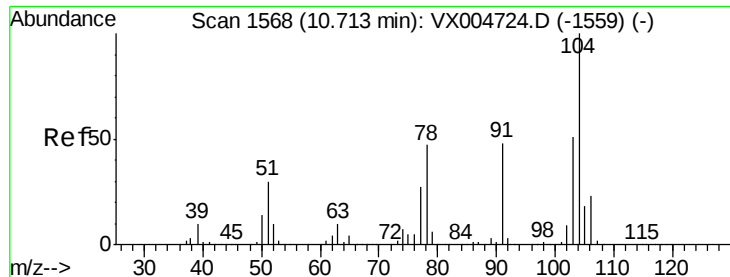
Tot Ion: 95 Resp: 143226
Ion Ratio Lower Upper
95 100
174 94.0 0.0 185.0
176 89.5 0.0 180.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX005216.D
Acq: 10 Oct 2018 19:34

Tgt Ion: 117 Resp: 272730
Ion Ratio Lower Upper
117 100
82 54.4 42.2 63.4
119 31.5 27.4 41.0

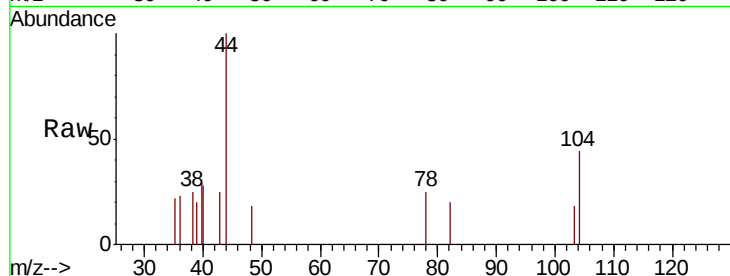




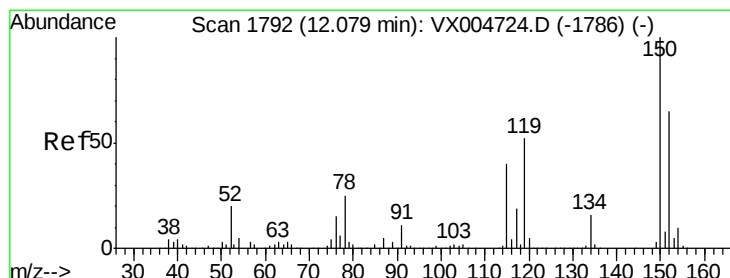
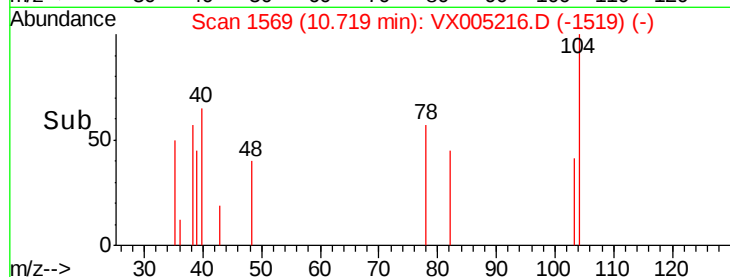
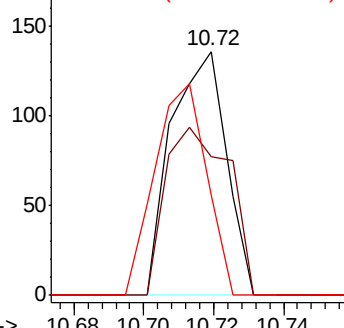
#70
Stvrene
Concen: 2.159 ug/l
RT: 10.72 min Scan# 1569
Delta R.T. 0.01 min
Lab File: VX005216.D
Acq: 10 Oct 2018 19:34

Instrument :
MSVOA_X
ClientSampleId :
BP-TT-ERB02-20181005

Tot Ion:104 Resp: 148
Ion Ratio Lower Upper
104 100
78 80.4 40.0 60.0#
103 81.8 44.3 66.5#

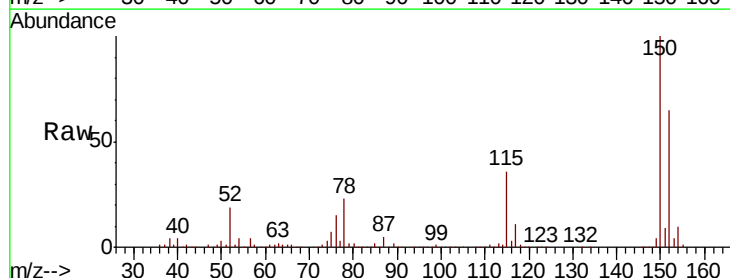


Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VX
Ion 103.00 (102.70 to 103.70): V

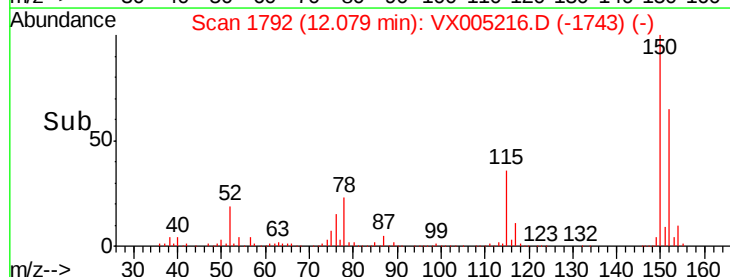
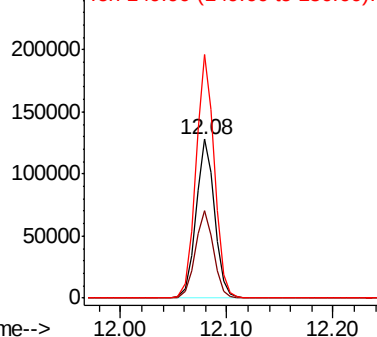


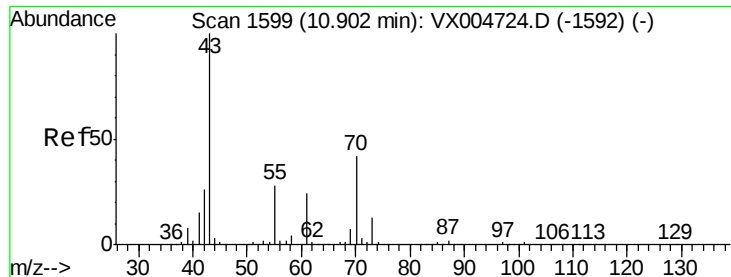
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX005216.D
Acq: 10 Oct 2018 19:34

Tgt Ion:152 Resp: 155154
Ion Ratio Lower Upper
152 100
115 54.6 40.2 120.6
150 153.0 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





#74

N-amvl acetate

Concen: 1.752 ug/l

RT: 10.91 min Scan# 1600

Delta R.T. 0.01 min

Lab File: VX005216.D

Acq: 10 Oct 2018 19:34

Instrument :

MSVOA_X

ClientSampleId :

BP-TT-ERB02-20181005

Tot Ion: 43 Resp: 23

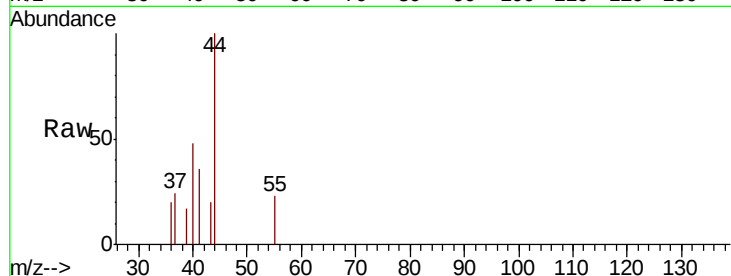
Ion Ratio Lower Upper

43 100

70 0.0 32.6 48.8#

55 117.4 21.6 32.4#

61 0.0 19.1 28.7#

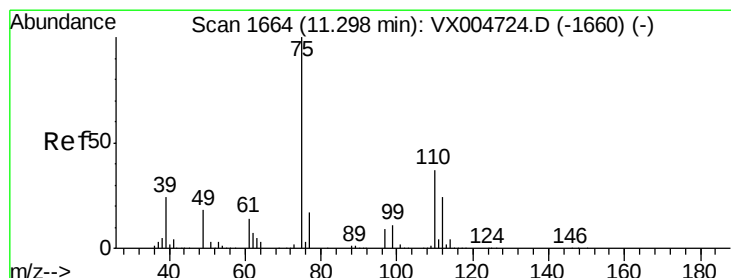
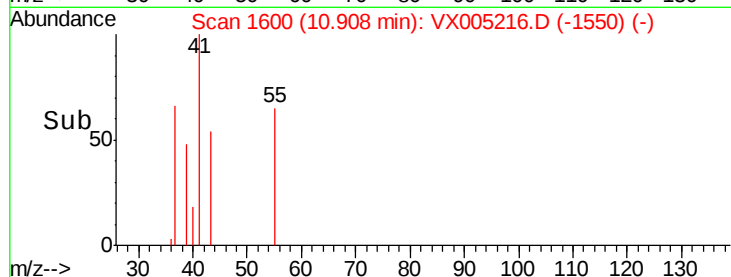
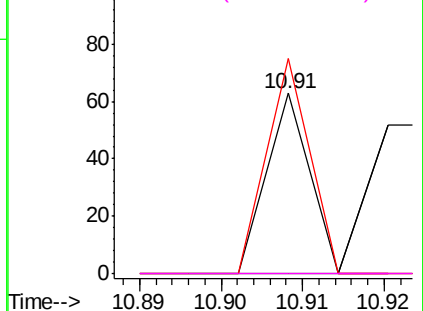


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#76

1,2,3-Trichloropropane

Concen: 20.294 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005216.D

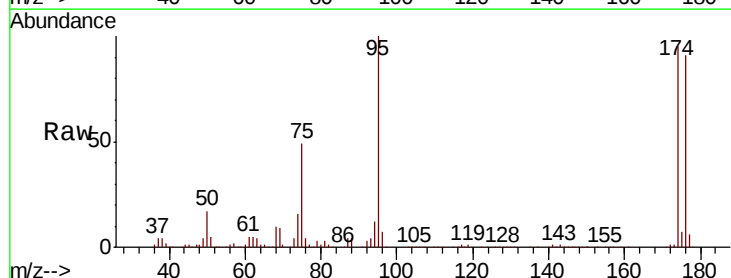
Acq: 10 Oct 2018 19:34

Tgt Ion: 75 Resp: 70573

Ion Ratio Lower Upper

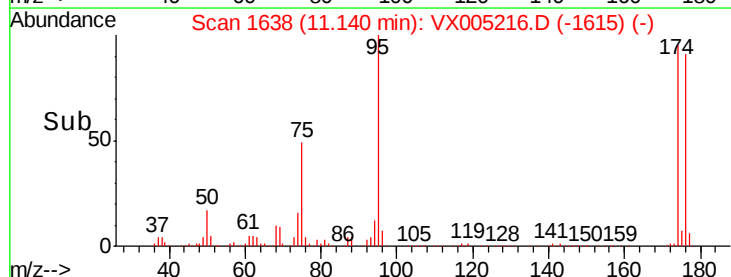
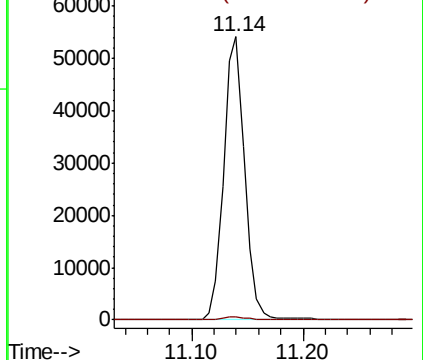
75 100

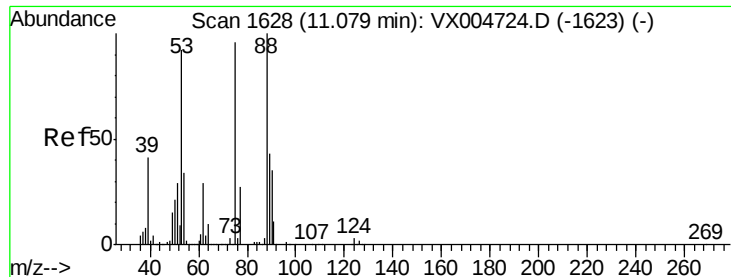
77 1.2 21.4 64.3#



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: 55.136 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX005216.D

Acq: 10 Oct 2018 19:34

Instrument :

MSVOA_X

ClientSampleId :

BP-TT-ERB02-20181005

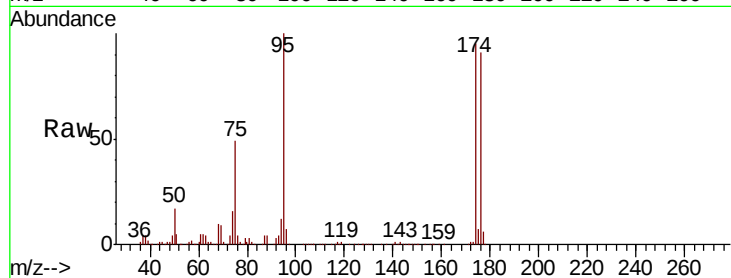
Tot Ion: 75 Resp: 70573

Ion Ratio Lower Upper

75 100

53 0.3 80.2 120.4#

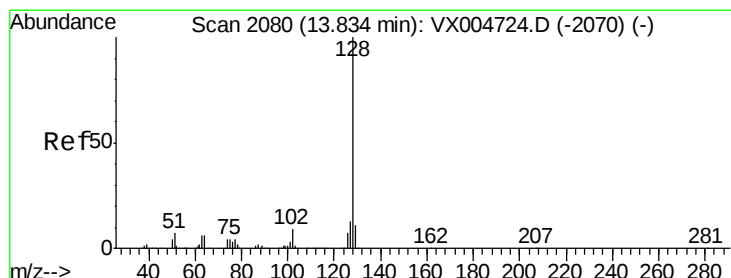
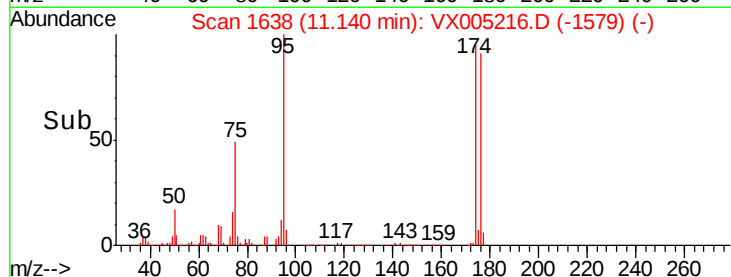
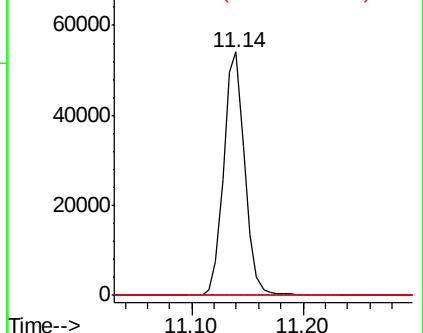
89 0.0 37.1 55.7#



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



#95

Naphthalene

Concen: 0.771 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX005216.D

Acq: 10 Oct 2018 19:34

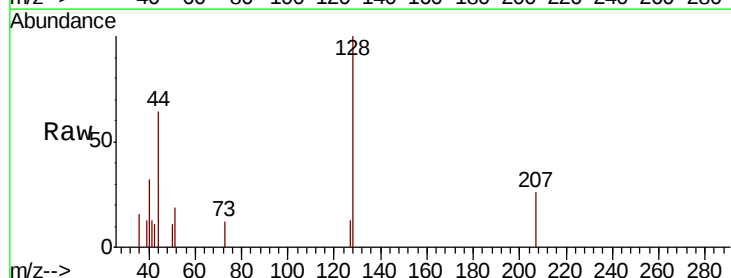
Tgt Ion:128 Resp: 674

Ion Ratio Lower Upper

128 100

127 8.3 10.4 15.6#

129 0.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

