

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX092718\
 Data File : VX004797.D
 Acq On : 28 Sep 2018 02:24
 Operator : JC/MD
 Sample : J5033-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-TT-TB03-20180916

Quant Time: Sep 28 06:04:40 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092618W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 26 14:17:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	224599	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	372089	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	361008	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	197355	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	178780	55.72	ug/l	0.00
Spiked Amount						
						Recovery = 111.44%
35) Dibromofluoromethane	5.50	113	149125	47.29	ug/l	0.00
Spiked Amount						
						Recovery = 94.58%
50) Toluene-d8	8.72	98	538292	51.35	ug/l	0.00
Spiked Amount						
						Recovery = 102.70%
62) 4-Bromofluorobenzene	11.14	95	191933	50.82	ug/l	0.00
Spiked Amount						
						Recovery = 101.64%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	783	0.211	ug/l	98
5) Bromomethane	1.64	94	688	0.333	ug/l	94
6) Chloroethane	1.66	64	2311	Below Cal	#	44
11) Tert butyl alcohol	3.02	59	1106	1.233	ug/l #	80
13) Acrolein	2.31	56	181	0.284	ug/l #	57
16) Acetone	2.45	43	4935	2.635	ug/l	96
20) Methylene Chloride	2.85	84	2041	Below Cal	#	90
27) cis-1,2-Dichloroethene	4.60	96	735	0.247	ug/l	30
29) Tetrahydrofuran	5.17	42	636	0.371	ug/l #	76
31) Cyclohexane	5.67	56	4329	1.060	ug/l #	3
36) 1,1-Dichloropropene	5.66	75	15355	3.569	ug/l #	49
38) Carbon Tetrachloride	5.67	117	20462	4.524	ug/l #	16
56) Ethyl methacrylate	9.36	69	19	2.865	ug/l #	1
58) 2-Chloroethyl Vinyl ether	8.52	63	18	14.248	ug/l #	45
70) Styrene	10.71	104	19	2.142	ug/l #	1
74) N-amyl acetate	10.88	43	60	1.756	ug/l #	28
76) 1,2,3-Trichloropropane	11.14	75	95742	21.644	ug/l #	37
80) 1,3,5-Trimethylbenzene	11.51	105	147	Below Cal		64
81) trans-1,4-Dichloro-2-buten	11.14	75	95742	58.673	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.81	105	211	Below Cal		73
95) Naphthalene	13.84	128	358	0.741	ug/l #	70

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX004797.D

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Instrument :

MSVOA_X

ClientSampleId :

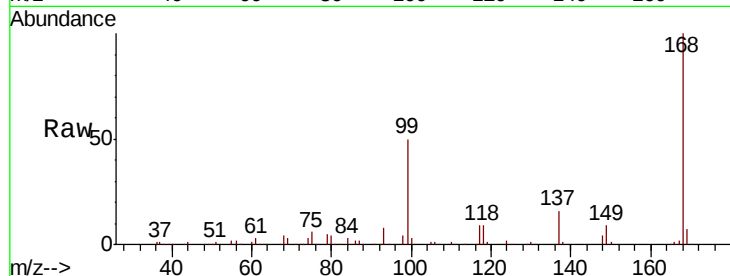
BP-TT-TB03-20180916

Tot Ion:168 Resp: 224599

Ion Ratio Lower Upper

168 100

99 50.0 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

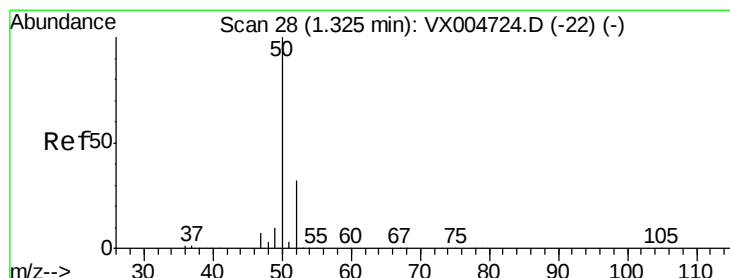
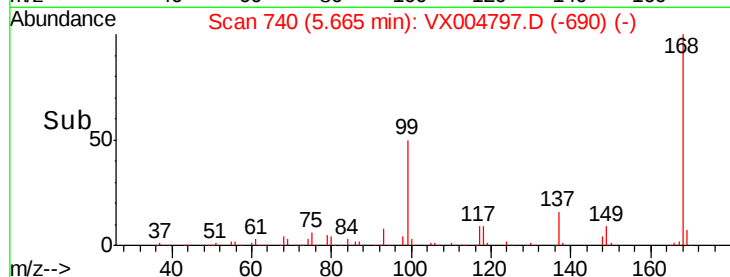
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.211 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX004797.D

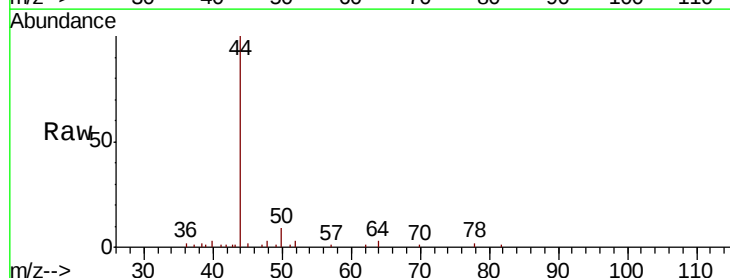
Acq: 28 Sep 2018 02:24

Tgt Ion: 50 Resp: 783

Ion Ratio Lower Upper

50 100

52 34.1 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

500

400

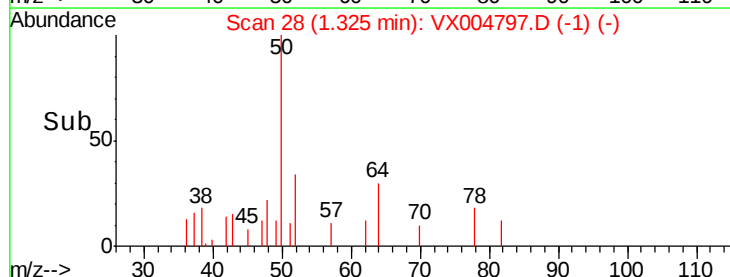
300

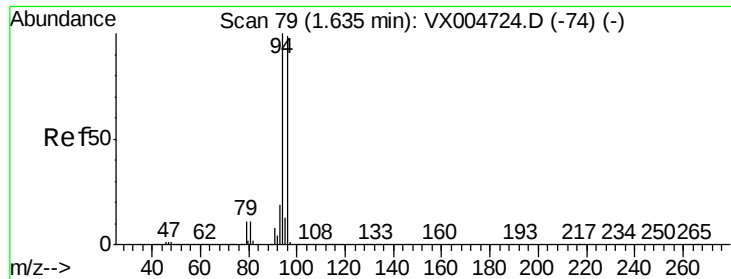
200

100

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: 0.333 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX004797.D

Acq: 28 Sep 2018 02:24

Instrument :

MSVOA_X

ClientSampleId :

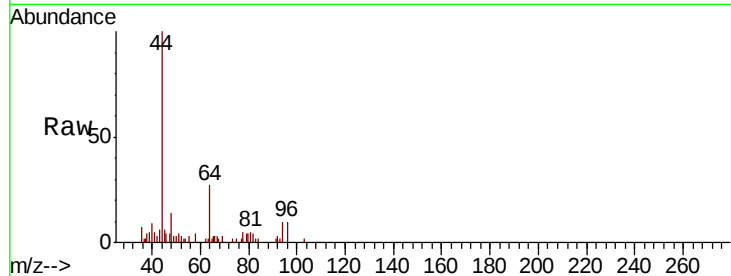
BP-TT-TB03-20180916

Tot Ion: 94 Resp: 688

Ion Ratio Lower Upper

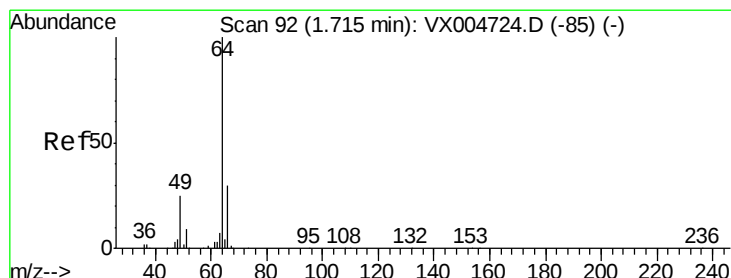
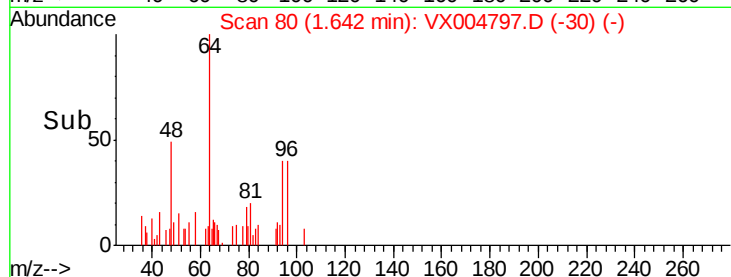
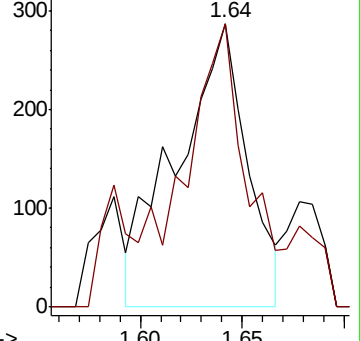
94 100

96 99.1 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: Below Cal

RT: 1.66 min Scan# 83

Delta R.T. -0.05 min

Lab File: VX004797.D

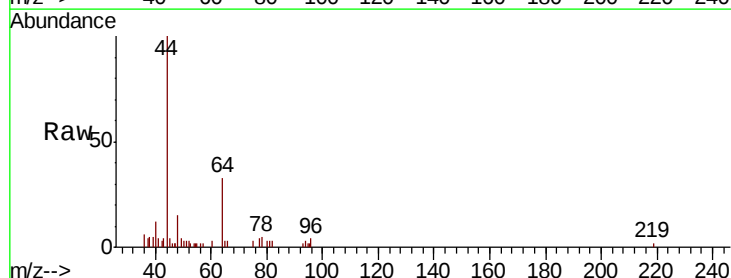
Acq: 28 Sep 2018 02:24

Tgt Ion: 64 Resp: 2311

Ion Ratio Lower Upper

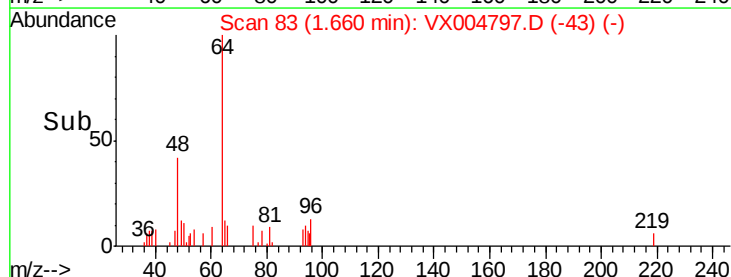
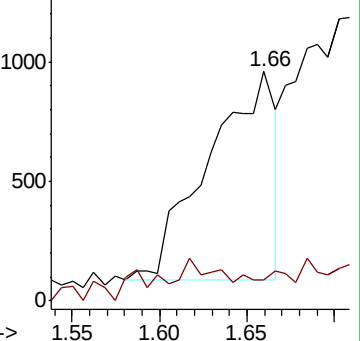
64 100

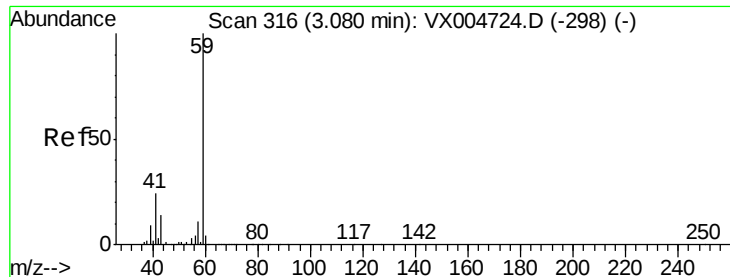
66 0.0 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



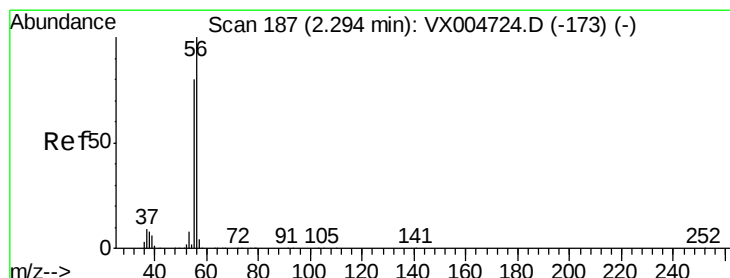
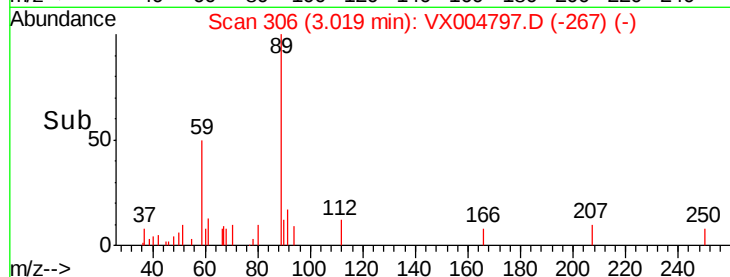
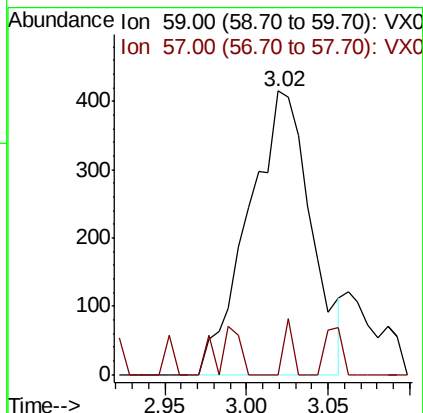
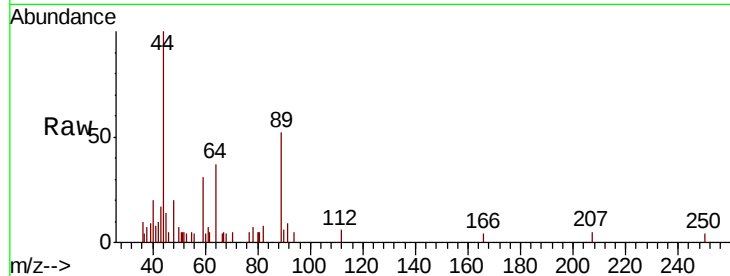


#11

Tert butyl alcohol
 Concen: 1.233 ug/l
 RT: 3.02 min Scan# 306
 Delta R.T. -0.06 min
 Lab File: VX004797.D
 Acq: 28 Sep 2018 02:24

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-TT-TB03-20180916

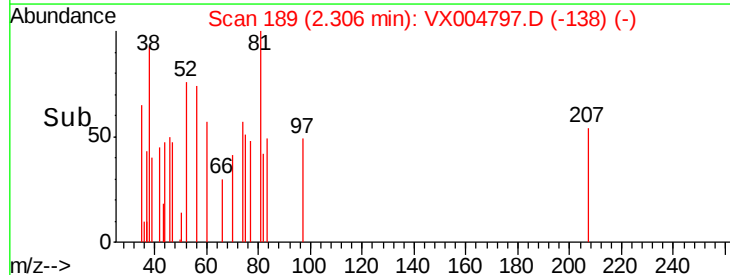
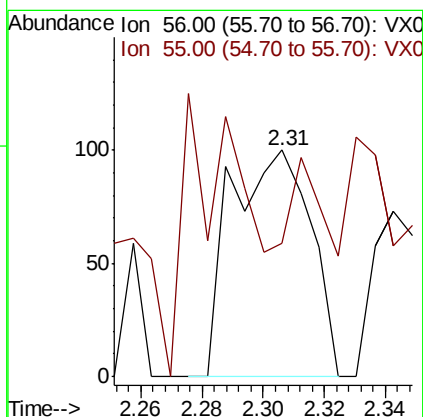
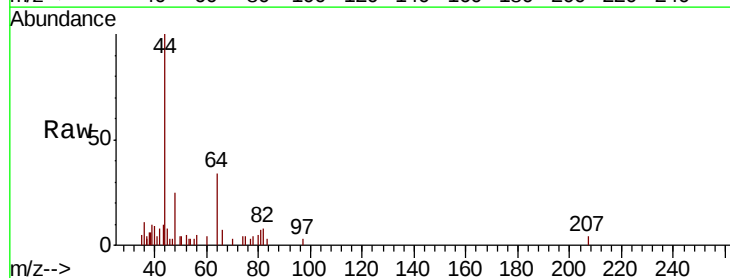
Tot Ion: 59 Resp: 1106
 Ion Ratio Lower Upper
 59 100
 57 2.7 8.2 12.4#

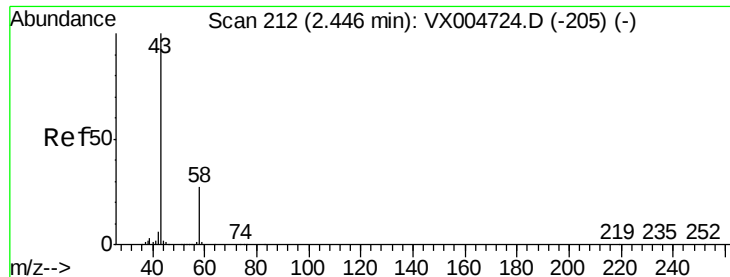


#13

Acrolein
 Concen: 0.284 ug/l
 RT: 2.31 min Scan# 189
 Delta R.T. 0.01 min
 Lab File: VX004797.D
 Acq: 28 Sep 2018 02:24

Tgt Ion: 56 Resp: 181
 Ion Ratio Lower Upper
 56 100
 55 33.1 54.7 82.1#





#16

Acetone

Concen: 2.635 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX004797.D

Acq: 28 Sep 2018 02:24

Instrument :

MSVOA_X

ClientSampleId :

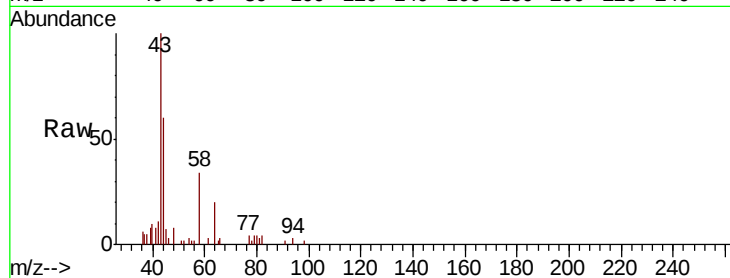
BP-TT-TB03-20180916

Tot Ion: 43 Resp: 4935

Ion Ratio Lower Upper

43 100

58 35.2 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.45

3000

2500

2000

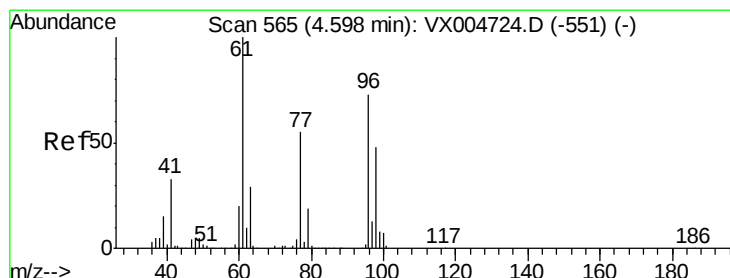
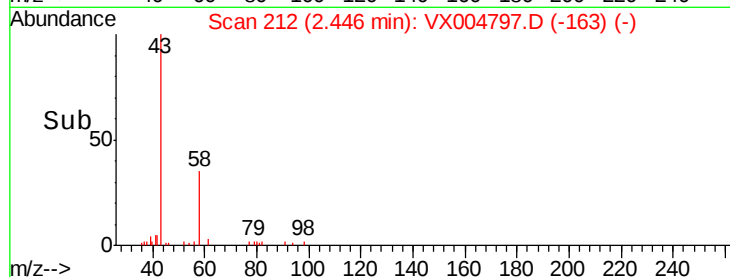
1500

1000

500

0

Time--> 2.35 2.40 2.45 2.50



#27

cis-1,2-Dichloroethene

Concen: 0.247 ug/l

RT: 4.60 min Scan# 565

Delta R.T. 0.00 min

Lab File: VX004797.D

Acq: 28 Sep 2018 02:24

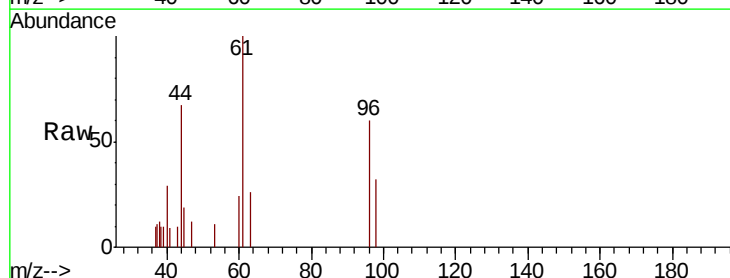
Tgt Ion: 96 Resp: 735

Ion Ratio Lower Upper

96 100

61 266.3 0.0 282.6

98 64.9 0.0 130.2



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

800

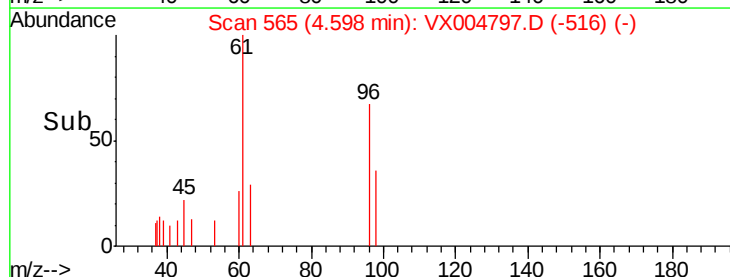
600

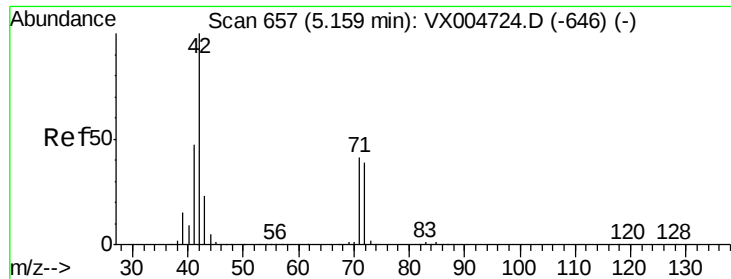
400

200

0

Time--> 4.55 4.60 4.65





#29

Tetrahydrofuran

Concen: 0.371 ug/l

RT: 5.17 min Scan# 659

Delta R.T. 0.01 min

Lab File: VX004797.D

Acq: 28 Sep 2018 02:24

Instrument :

MSVOA_X

ClientSampleId :

BP-TT-TB03-20180916

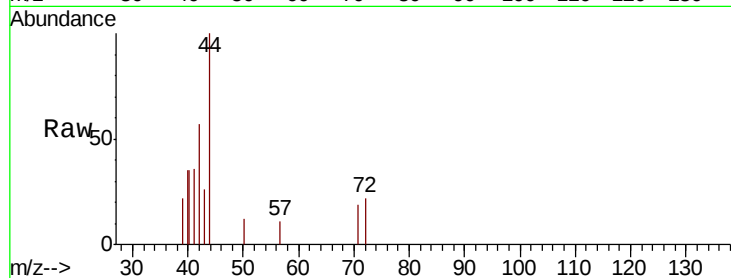
Tot Ion: 42 Resp: 636

Ion Ratio Lower Upper

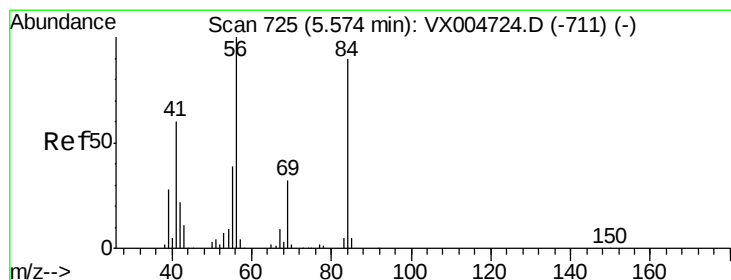
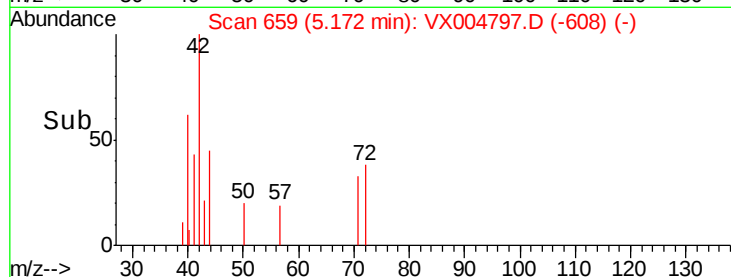
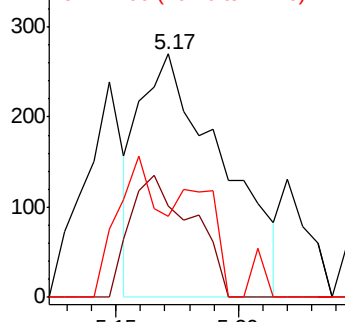
42 100

72 37.9 37.4 56.0

71 20.4 34.5 51.7#



Abundance Ion 42.00 (41.70 to 42.70): VX0
Ion 72.00 (71.70 to 72.70): VX0
Ion 71.00 (70.70 to 71.70): VX0



#31

Cyclohexane

Concen: 1.060 ug/l

RT: 5.67 min Scan# 741

Delta R.T. 0.10 min

Lab File: VX004797.D

Acq: 28 Sep 2018 02:24

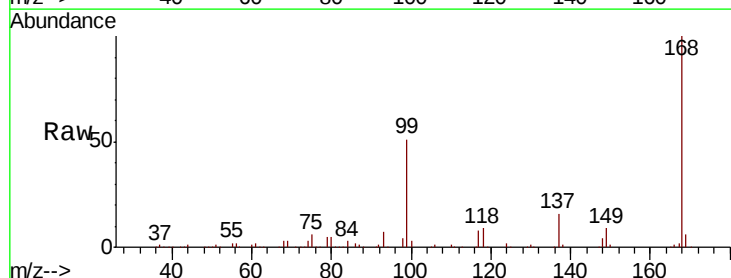
Tgt Ion: 56 Resp: 4329

Ion Ratio Lower Upper

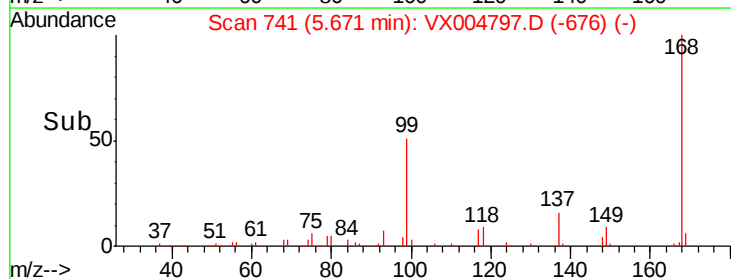
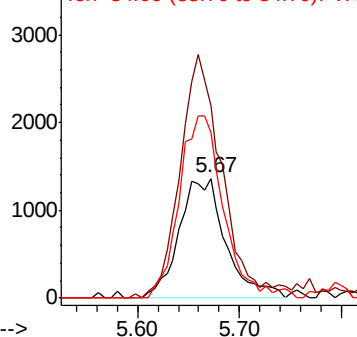
56 100

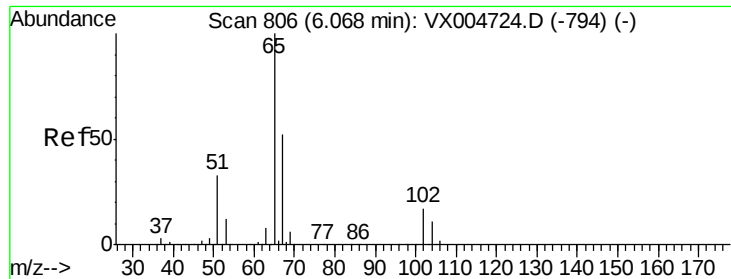
69 156.9 25.4 38.2#

84 138.0 71.4 107.2#



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

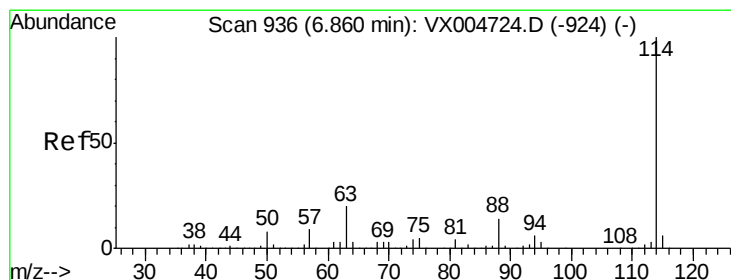
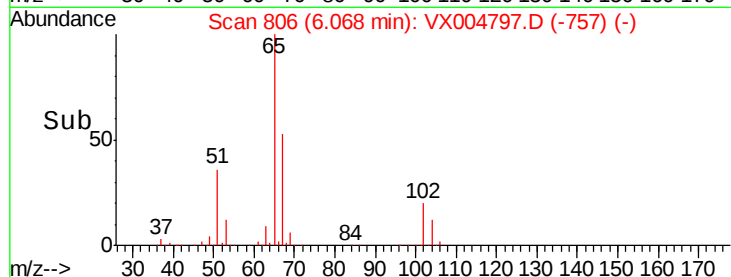
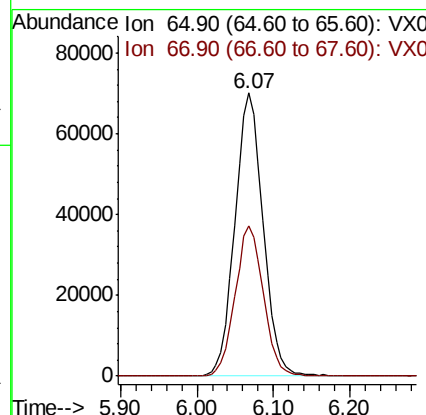
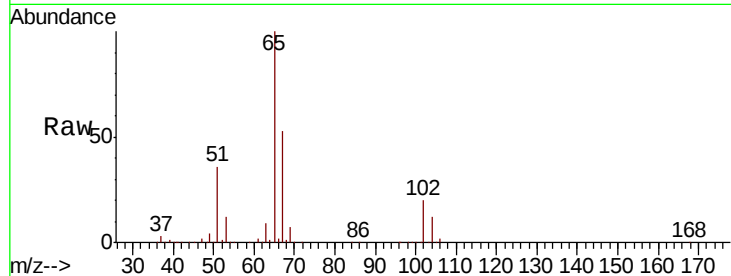




#33
 1,2-Dichloroethane-d4
 Concen: 55.722 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. 0.00 min
 Lab File: VX004797.D
 Acq: 28 Sep 2018 02:24

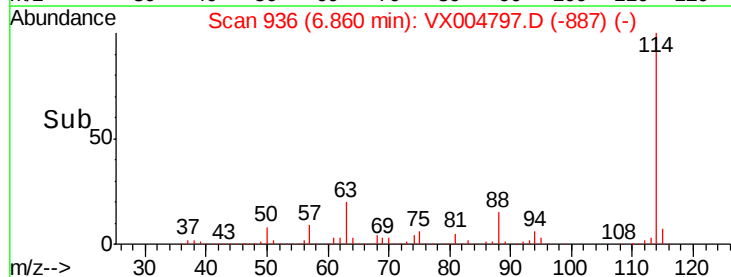
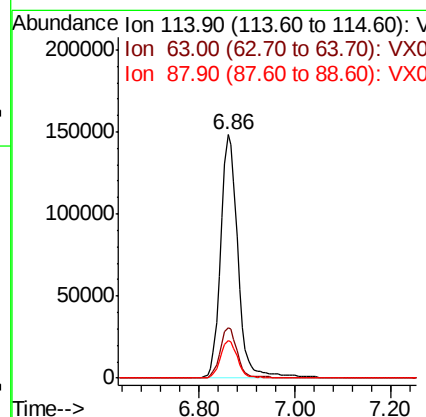
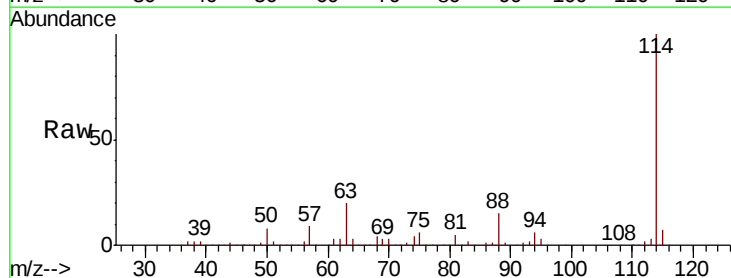
Instrument :
 MSVOA_X
 ClientSampleId :
 BP-TT-TB03-20180916

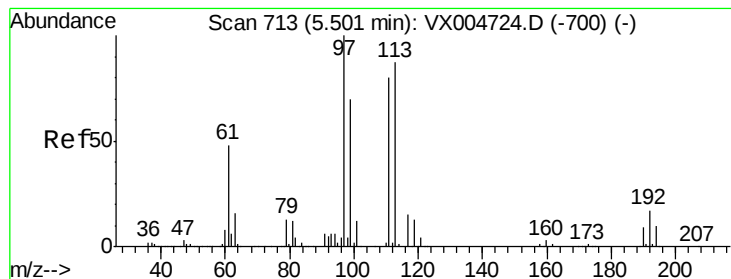
Tot Ion: 65 Resp: 178780
 Ion Ratio Lower Upper
 65 100
 67 53.1 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX004797.D
 Acq: 28 Sep 2018 02:24

Tgt Ion: 114 Resp: 372089
 Ion Ratio Lower Upper
 114 100
 63 20.5 0.0 39.0
 88 15.5 0.0 30.4





#35

Dibromofluoromethane

Concen: 47.289 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX004797.D

Acq: 28 Sep 2018 02:24

Instrument :

MSVOA_X

ClientSampleId :

BP-TT-TB03-20180916

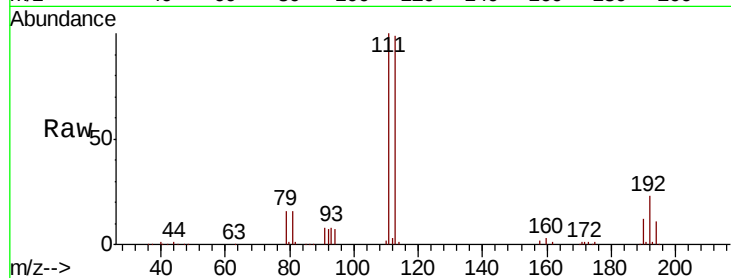
Tot Ion:113 Resp: 149125

Ion Ratio Lower Upper

113 100

111 101.8 82.4 123.6

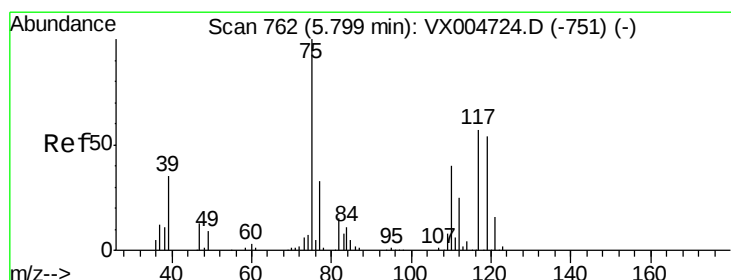
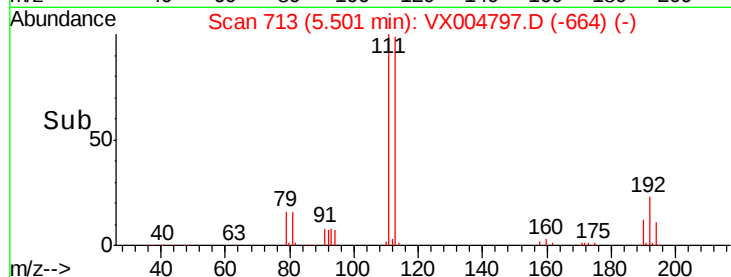
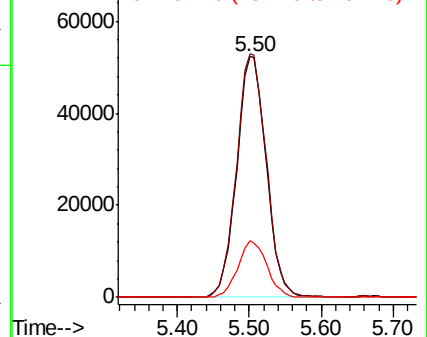
192 23.0 19.4 29.2



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: 3.569 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX004797.D

Acq: 28 Sep 2018 02:24

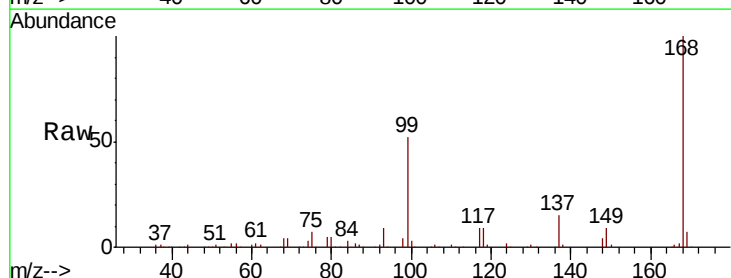
Tgt Ion: 75 Resp: 15355

Ion Ratio Lower Upper

75 100

110 9.0 18.0 54.0#

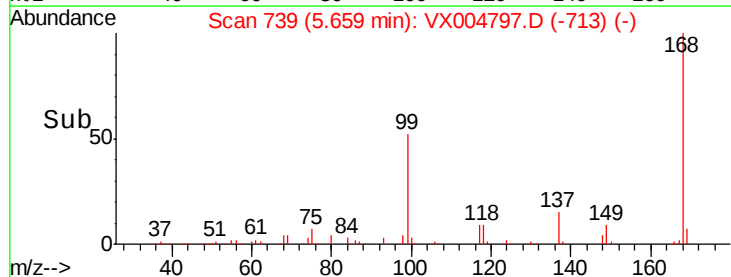
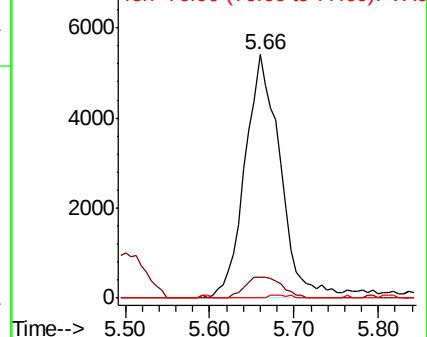
77 0.0 24.6 36.8#

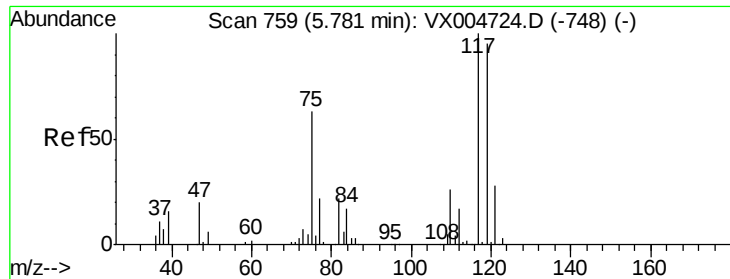


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

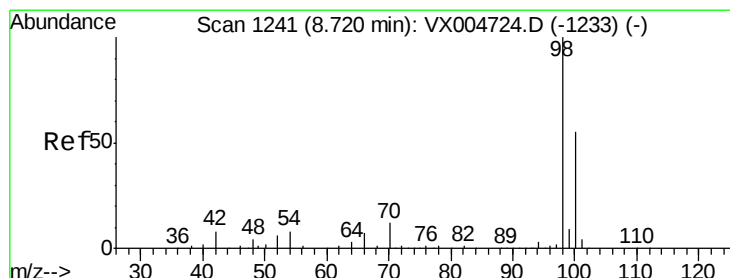
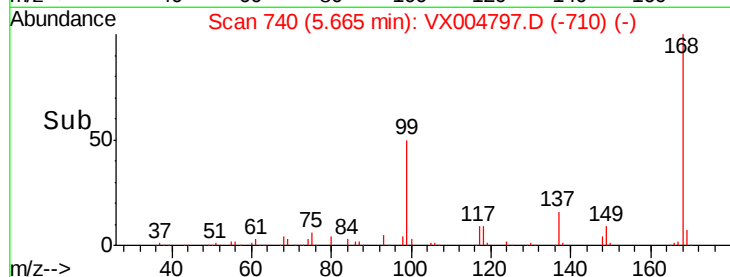
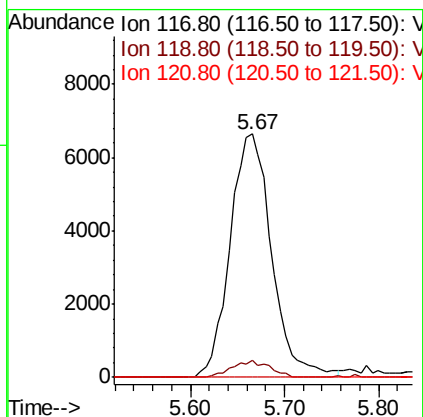
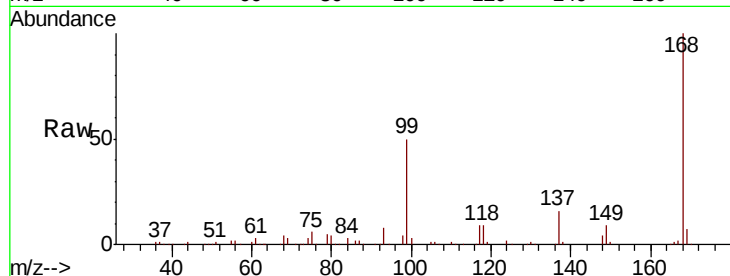




#38
Carbon Tetrachloride
Concen: 4.524 ug/l
RT: 5.67 min Scan# 740
Delta R.T. -0.12 min
Lab File: VX004797.D
Acq: 28 Sep 2018 02:24

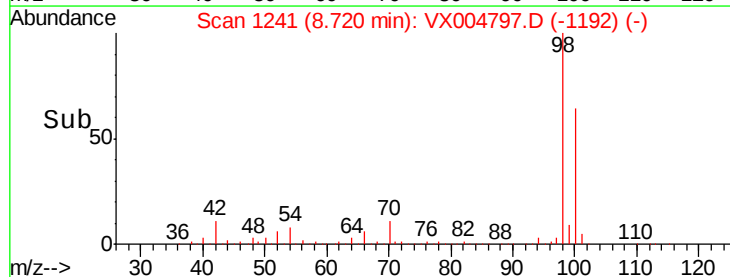
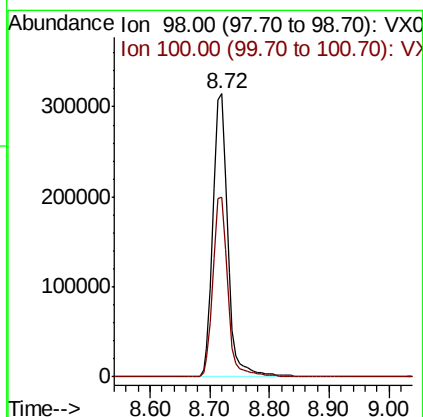
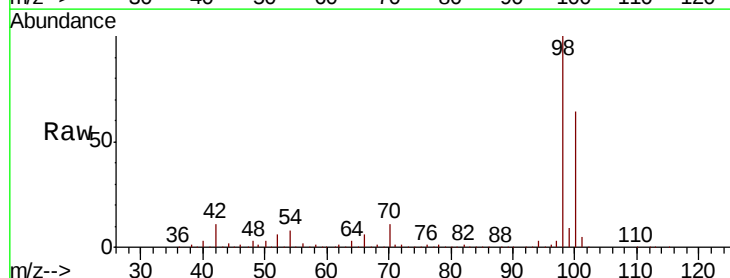
Instrument :
MSVOA_X
ClientSampleId :
BP-TT-TB03-20180916

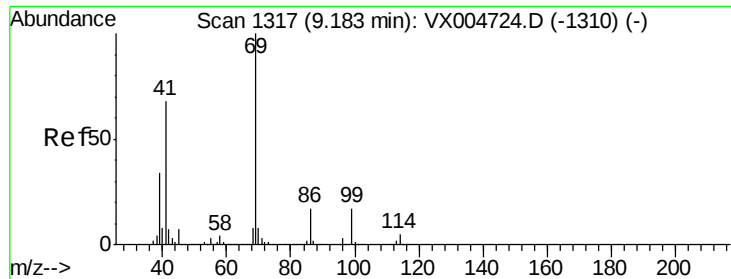
Tot Ion:117 Resp: 20462
Ion Ratio Lower Upper
117 100
119 7.2 78.8 118.2#
121 0.0 24.9 37.3#



#50
Toluene-d8
Concen: 51.345 ug/l
RT: 8.72 min Scan# 1241
Delta R.T. 0.00 min
Lab File: VX004797.D
Acq: 28 Sep 2018 02:24

Tgt Ion: 98 Resp: 538292
Ion Ratio Lower Upper
98 100
100 63.5 52.9 79.3





#56

Ethyl methacrylate

Concen: 2.865 ug/l

RT: 9.36 min Scan# 1346

Delta R.T. 0.18 min

Lab File: VX004797.D

Acq: 28 Sep 2018 02:24

Instrument :

MSVOA_X

ClientSampleId :

BP-TT-TB03-20180916

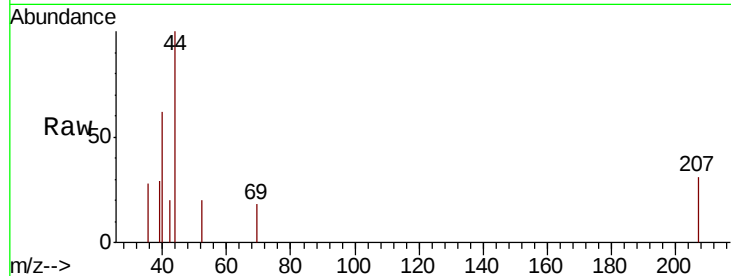
Tot Ion: 69 Resp: 19

Ion Ratio Lower Upper

69 100

41 121.1 51.0 76.4#

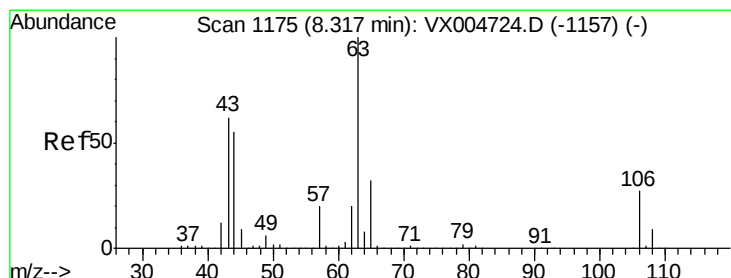
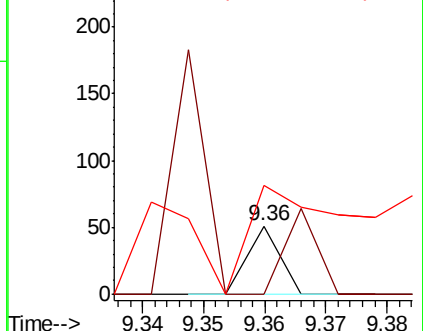
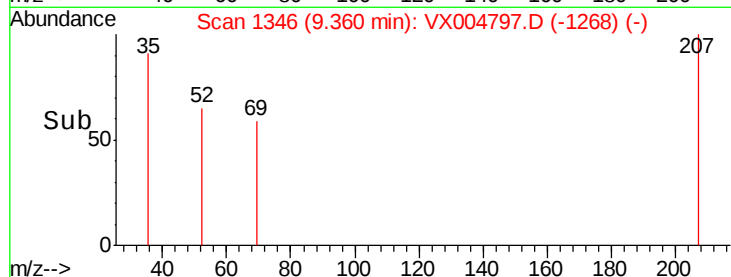
39 505.3 26.1 39.1#



Abundance Ion 69.00 (68.70 to 69.70): VX0

Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0



#58

2-Chloroethyl Vinyl ether

Concen: 14.248 ug/l

RT: 8.52 min Scan# 1209

Delta R.T. 0.21 min

Lab File: VX004797.D

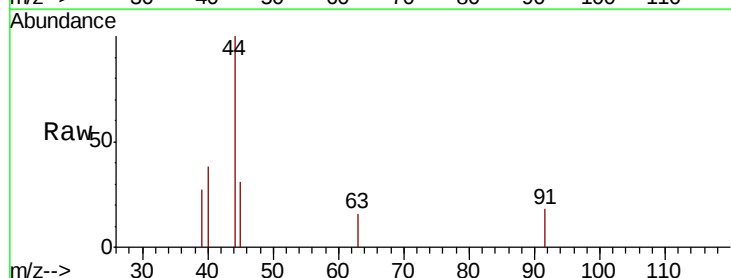
Acq: 28 Sep 2018 02:24

Tgt Ion: 63 Resp: 18

Ion Ratio Lower Upper

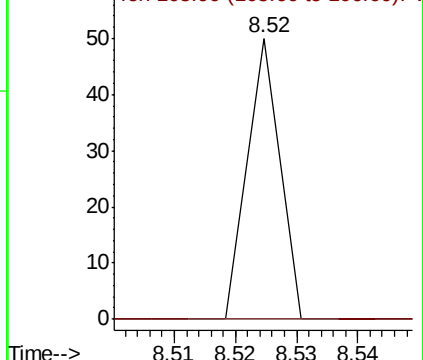
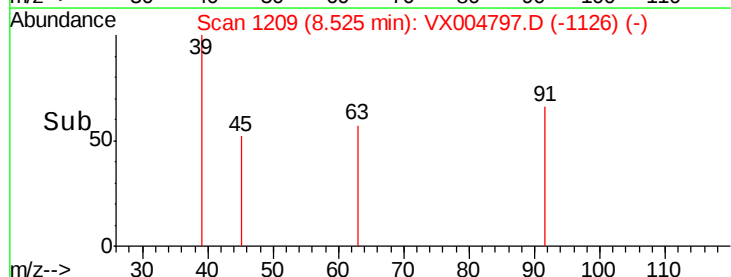
63 100

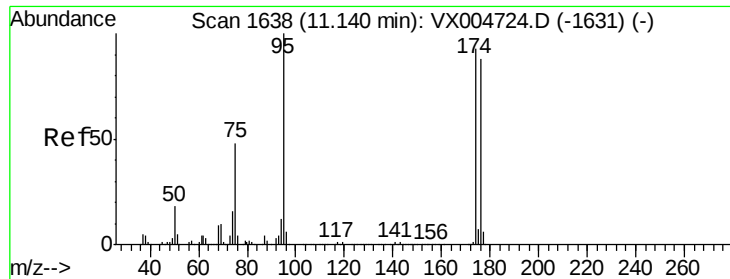
106 0.0 23.9 35.9#



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 105.90 (105.60 to 106.60): V





#62

4-Bromofluorobenzene

Concen: 50.818 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.00 min

Lab File: VX004797.D

Acq: 28 Sep 2018 02:24

Instrument :

MSVOA_X

ClientSampleId :

BP-TT-TB03-20180916

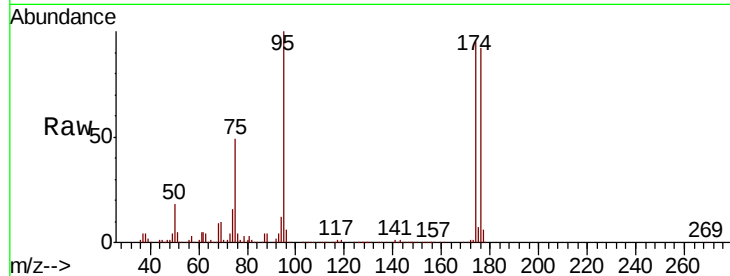
Tot Ion: 95 Resp: 191933

Ion Ratio Lower Upper

95 100

174 92.5 0.0 185.2

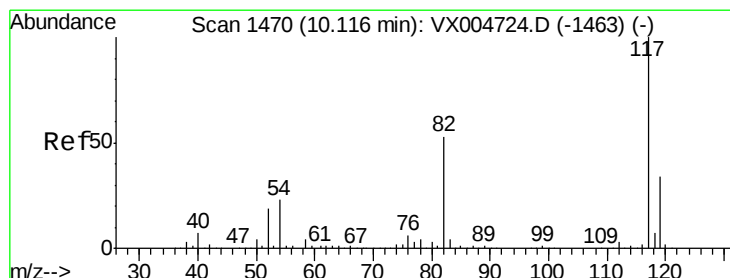
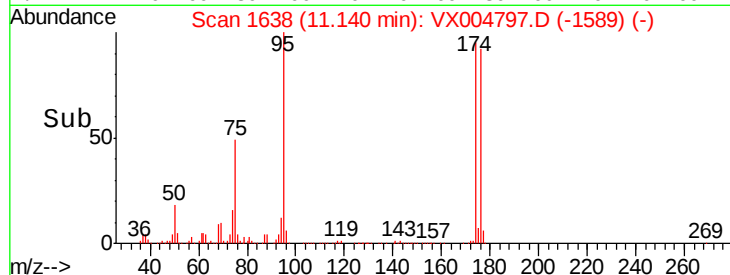
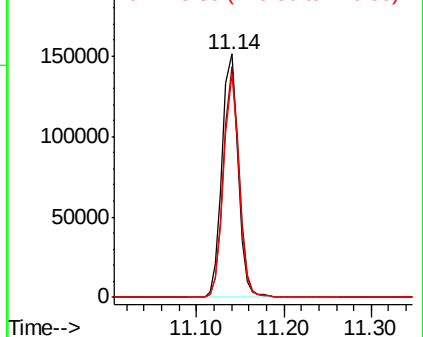
176 88.0 0.0 178.6



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: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.00 min

Lab File: VX004797.D

Acq: 28 Sep 2018 02:24

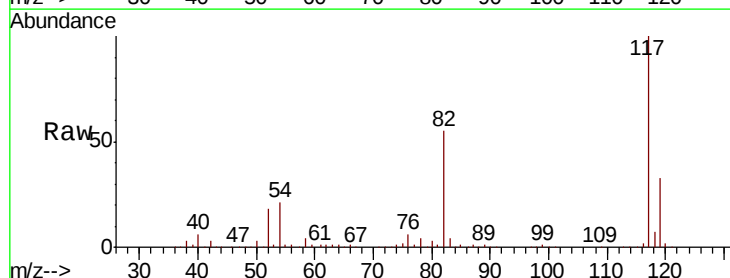
Tgt Ion: 117 Resp: 361008

Ion Ratio Lower Upper

117 100

82 54.8 47.8 71.6

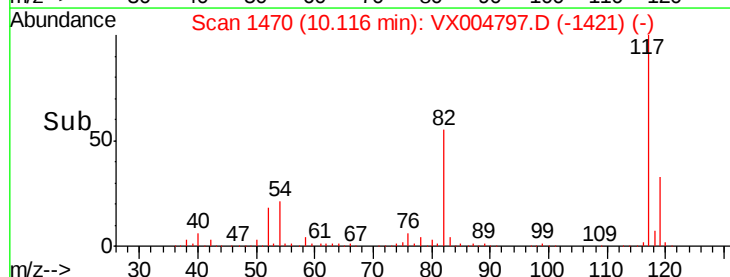
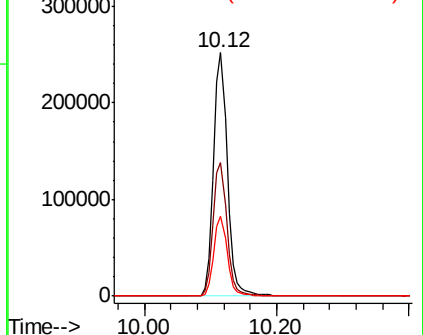
119 32.6 29.3 43.9

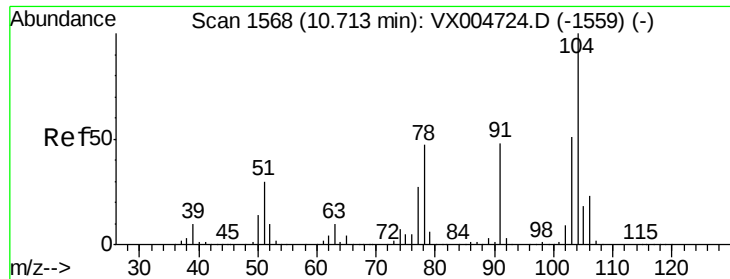


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#70

Stvrene

Concen: 2.142 ug/l

RT: 10.71 min Scan# 1568

Delta R.T. 0.00 min

Lab File: VX004797.D

Acq: 28 Sep 2018 02:24

Instrument :

MSVOA_X

ClientSampleId :

BP-TT-TB03-20180916

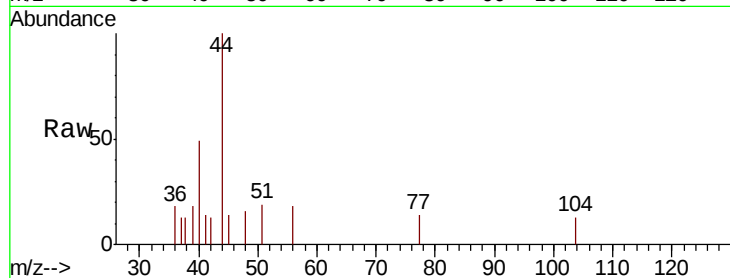
Tot Ion:104 Resp: 19

Ion Ratio Lower Upper

104 100

78 247.4 37.4 56.0#

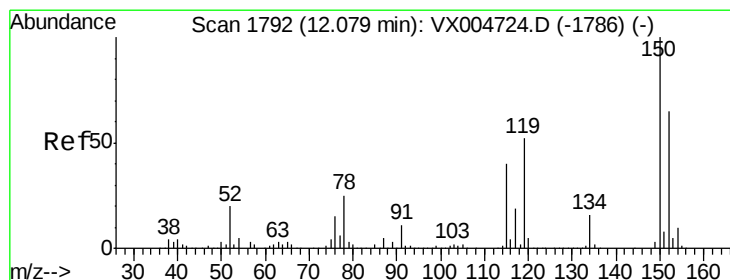
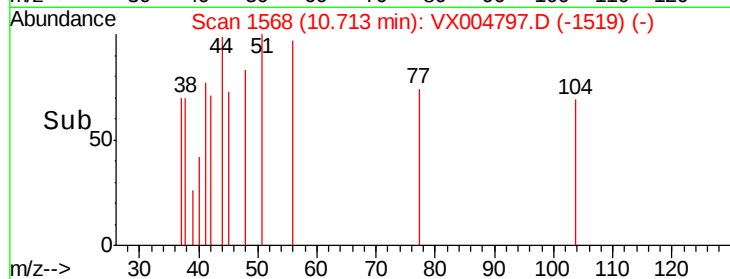
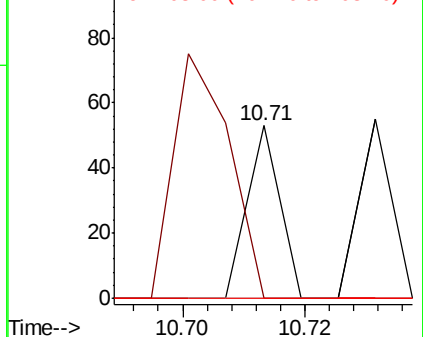
103 0.0 43.8 65.6#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VX0

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: VX004797.D

Acq: 28 Sep 2018 02:24

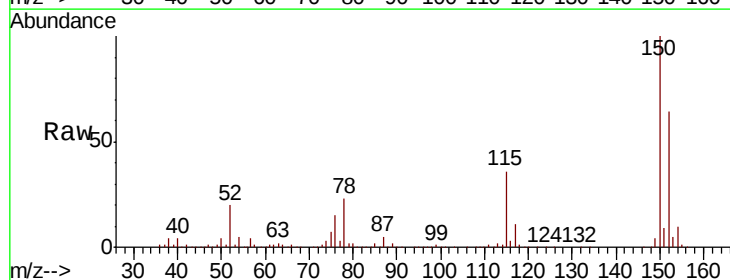
Tgt Ion:152 Resp: 197355

Ion Ratio Lower Upper

152 100

115 56.2 39.0 117.0

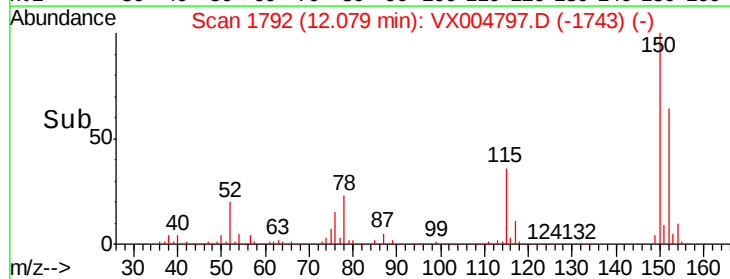
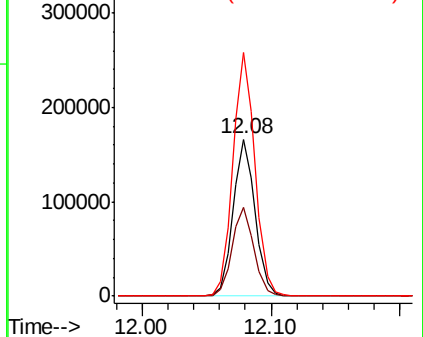
150 156.3 0.0 351.0

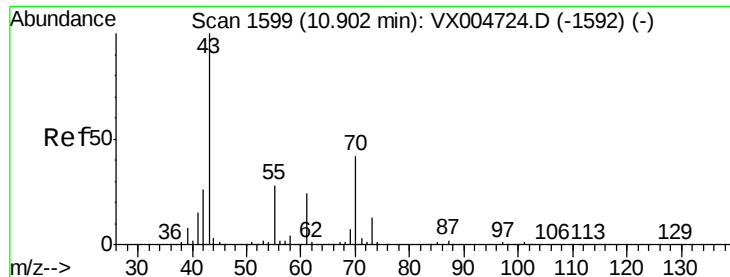


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 1.756 ug/l

RT: 10.88 min Scan# 1595

Delta R.T. -0.02 min

Lab File: VX004797.D

Acq: 28 Sep 2018 02:24

Instrument :

MSVOA_X

ClientSampleId :

BP-TT-TB03-20180916

Tot Ion: 43 Resp: 60

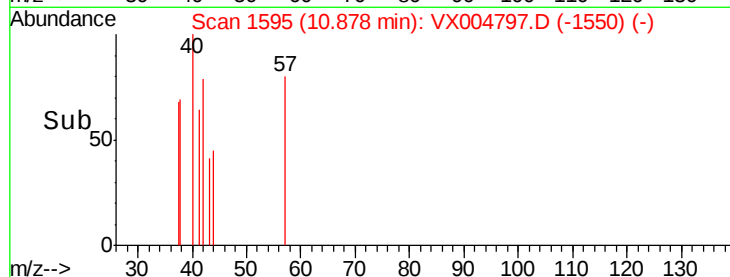
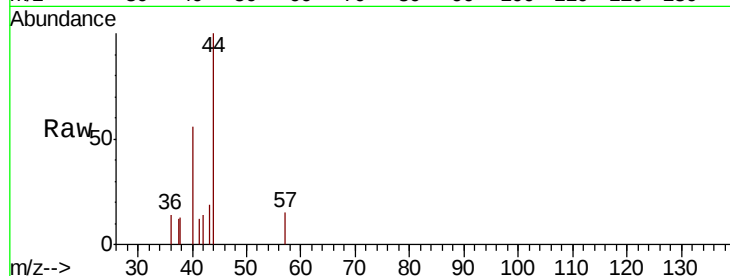
Ion Ratio Lower Upper

43 100

70 0.0 37.4 56.0#

55 76.7 21.8 32.8#

61 0.0 20.6 30.8#

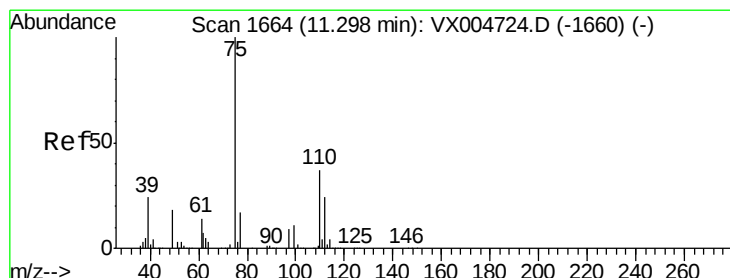
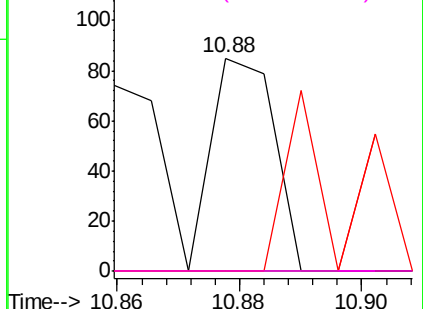


Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 21.644 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004797.D

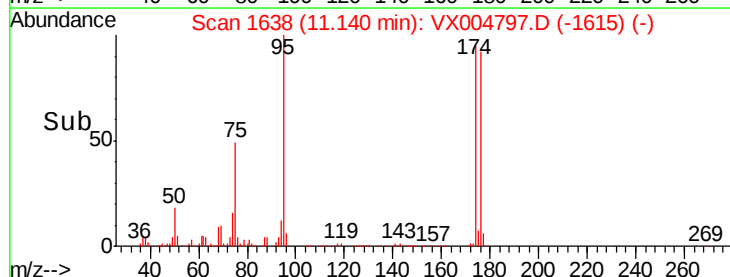
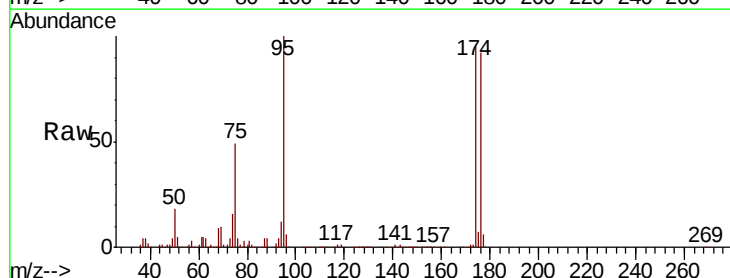
Acq: 28 Sep 2018 02:24

Tgt Ion: 75 Resp: 95742

Ion Ratio Lower Upper

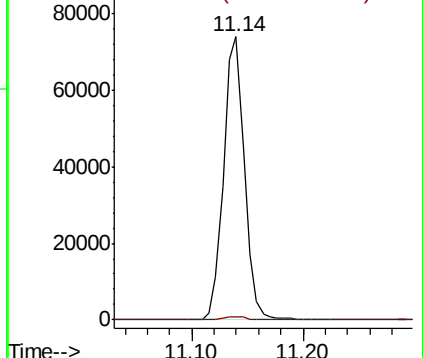
75 100

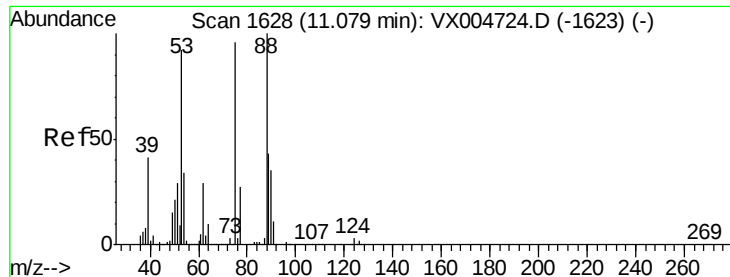
77 1.3 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 58.673 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX004797.D

Acq: 28 Sep 2018 02:24

Instrument :

MSVOA_X

ClientSampleId :

BP-TT-TB03-20180916

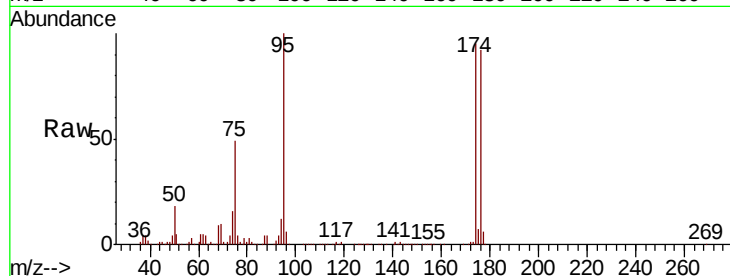
Tot Ion: 75 Resp: 95742

Ion Ratio Lower Upper

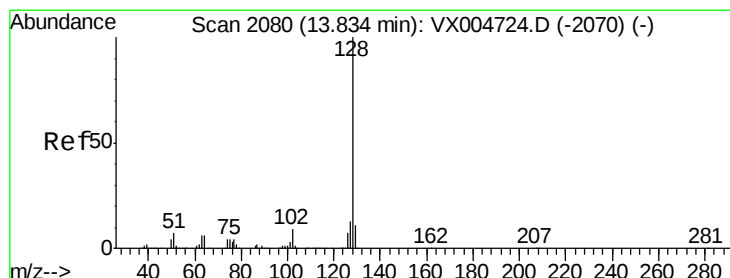
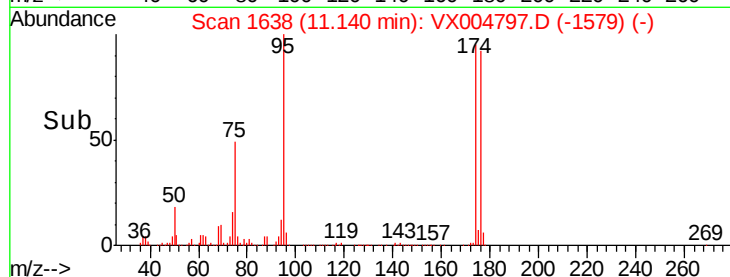
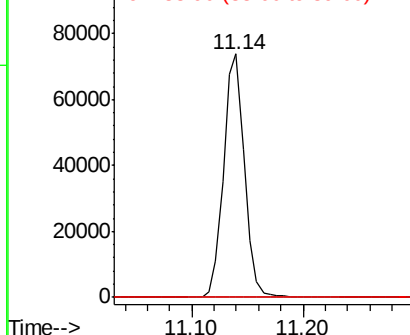
75 100

53 0.3 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



#95

Naphthalene

Concen: 0.741 ug/l

RT: 13.84 min Scan# 2081

Delta R.T. 0.01 min

Lab File: VX004797.D

Acq: 28 Sep 2018 02:24

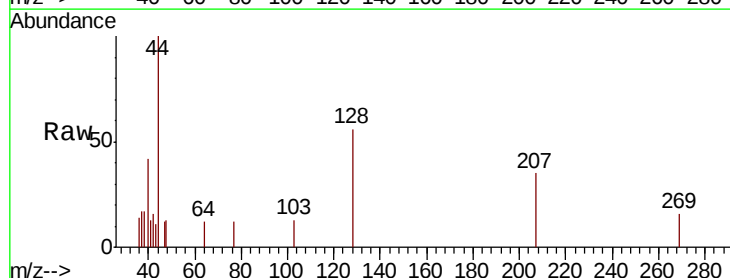
Tgt Ion: 128 Resp: 358

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

129 0.0 8.6 12.8#



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

