

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX032119\
 Data File : VX008287.D
 Acq On : 21 Mar 2019 13:43
 Operator : JC/SP
 Sample : K1963-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-TB05-20190314

Quant Time: Mar 22 08:42:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X031919W.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 19 13:15:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	305173	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	497880	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	423436	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	172974	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	212813	46.30	ug/l	0.00
Spiked Amount			Recovery	=	92.60%	
35) Dibromofluoromethane	5.50	113	161387	48.42	ug/l	0.00
Spiked Amount			Recovery	=	96.84%	
50) Toluene-d8	8.71	98	612679	48.48	ug/l	0.00
Spiked Amount			Recovery	=	96.96%	
62) 4-Bromofluorobenzene	11.13	95	196877	45.25	ug/l	0.00
Spiked Amount			Recovery	=	90.50%	

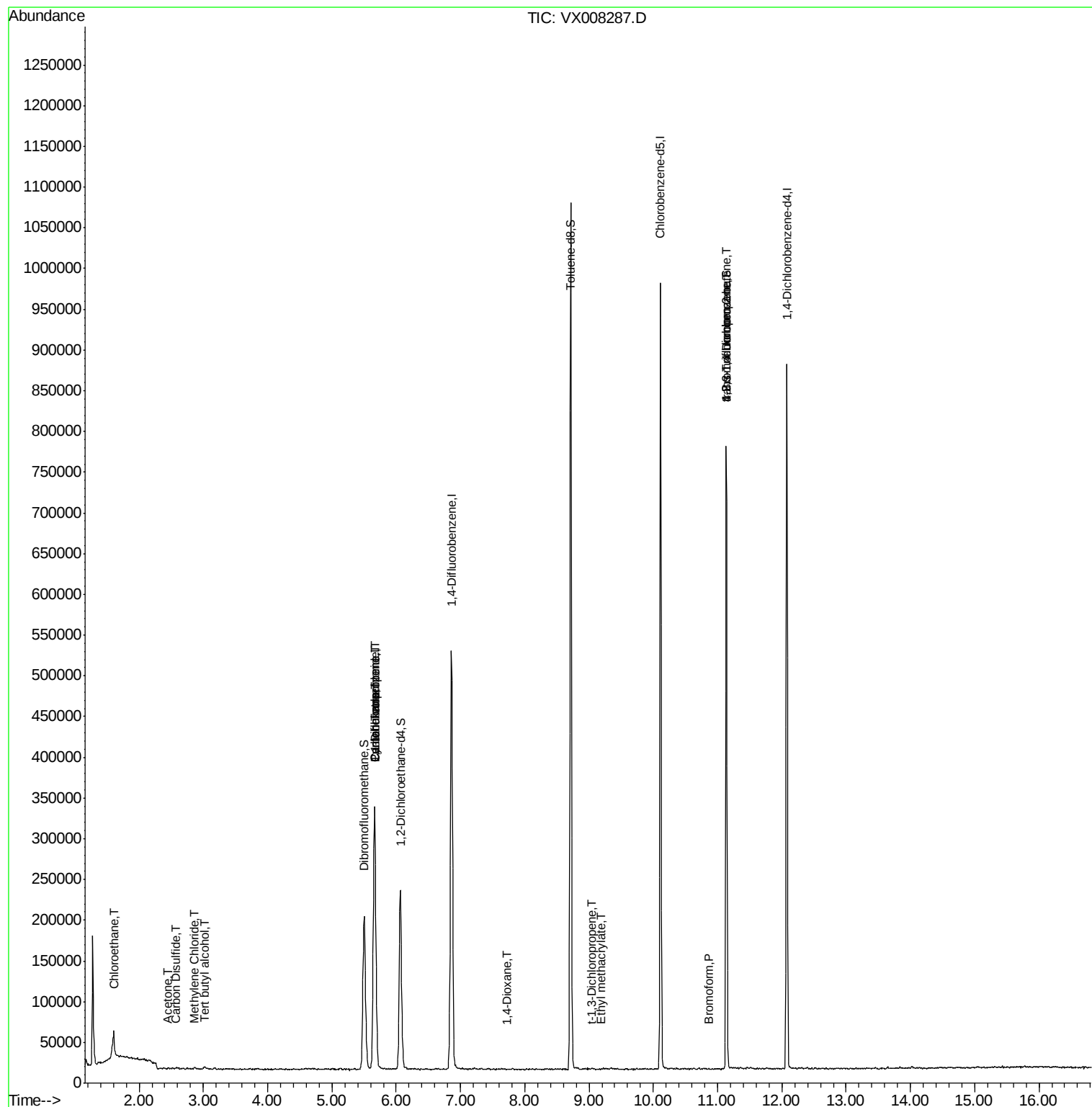
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.60	64	40922	14.100	ug/l #	53
11) Tert butyl alcohol	3.02	59	2070	2.104	ug/l #	93
13) Acrolein	2.31	56	191	Below Cal		91
16) Acetone	2.45	43	1223	0.469	ug/l #	87
17) Carbon Disulfide	2.57	76	2119	0.848	ug/l #	46
20) Methylene Chloride	2.87	84	1155	0.266	ug/l #	70
31) Cyclohexane	5.67	56	6587	0.864	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	24066	4.152	ug/l #	50
38) Carbon Tetrachloride	5.67	117	30239	5.855	ug/l #	16
49) 1,4-Dioxane	7.73	88	67	0.650	ug/l #	43
53) t-1,3-Dichloropropene	9.05	75	314	1.466	ug/l #	43
56) Ethyl methacrylate	9.18	69	255	0.561	ug/l #	84
71) Bromoform	10.85	173	63	2.222	ug/l #	29
76) 1,2,3-Trichloropropane	11.13	75	103689	21.313	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	103689	54.208	ug/l #	11

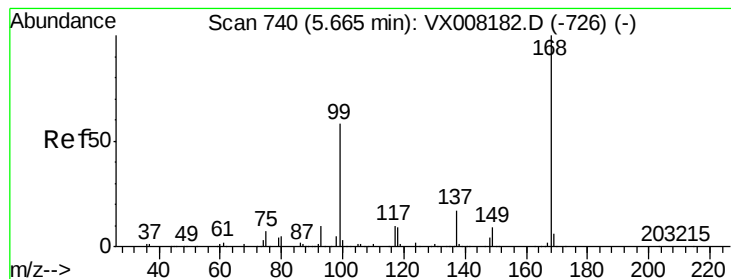
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX008287.D

Acq: 21 Mar 2019 13:43

Instrument :

MSVOA_X

ClientSampleId :

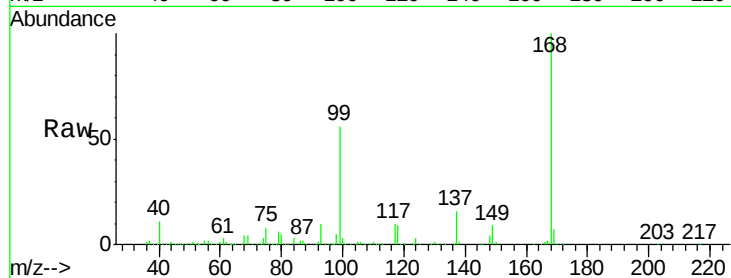
BP-TB05-20190314

Tot Ion:168 Resp: 305173

Ion Ratio Lower Upper

168 100

99 56.1 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): VX008182.D (-726) (-)

Ion 98.90 (98.60 to 99.60): VX008182.D (-726) (-)

5.67

120000

100000

80000

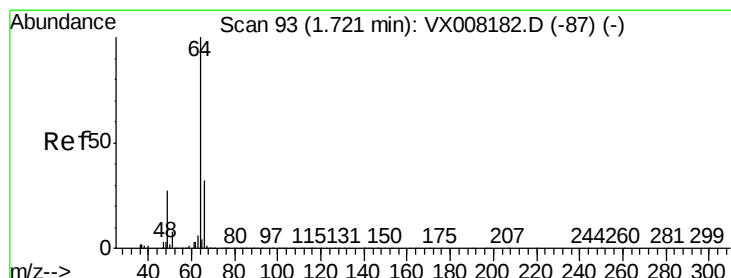
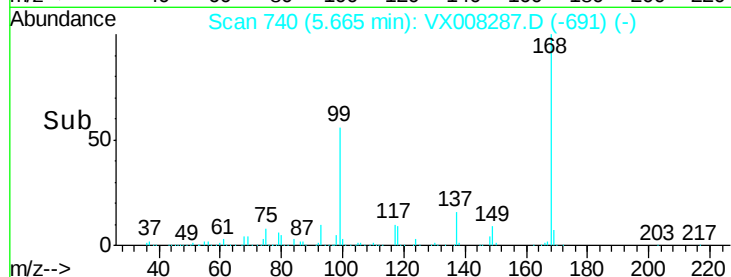
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#6

Chloroethane

Concen: 14.100 ug/l

RT: 1.60 min Scan# 73

Delta R.T. -0.12 min

Lab File: VX008287.D

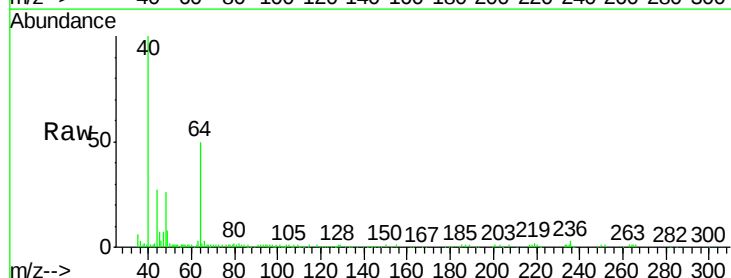
Acq: 21 Mar 2019 13:43

Tgt Ion: 64 Resp: 40922

Ion Ratio Lower Upper

64 100

66 5.3 25.2 37.8#



Abundance Ion 63.90 (63.60 to 64.60): VX008182.D (-87) (-)

Ion 65.90 (65.60 to 66.60): VX008182.D (-87) (-)

1.60

10000

8000

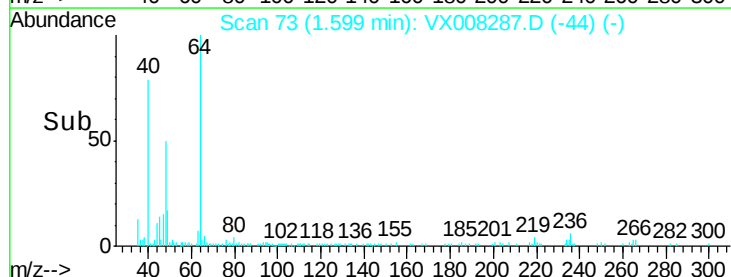
6000

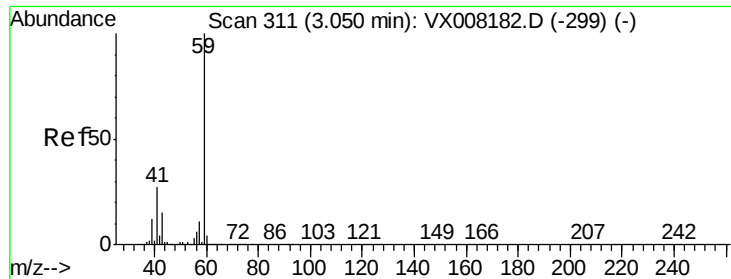
4000

2000

0

Time--> 1.40 1.50 1.60 1.70



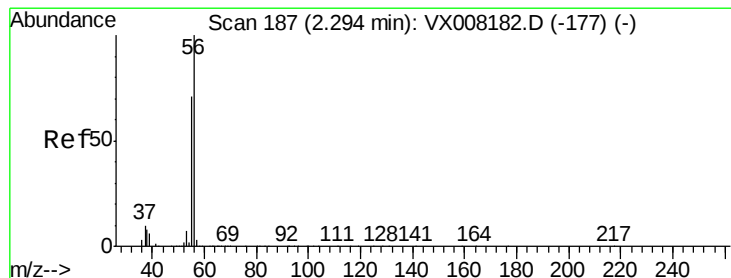
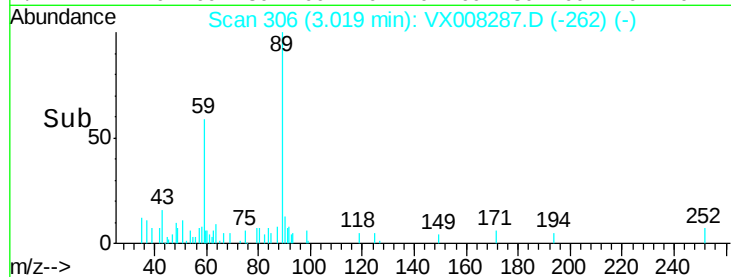
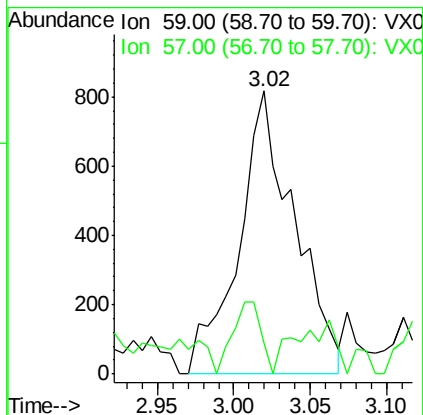
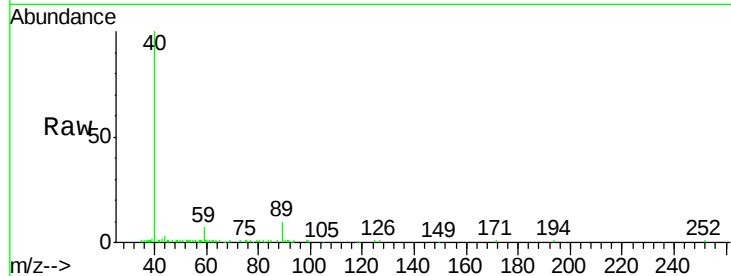


#11

Tert butyl alcohol
 Concen: 2.104 ug/l
 RT: 3.02 min Scan# 306
 Delta R.T. -0.03 min
 Lab File: VX008287.D
 Acq: 21 Mar 2019 13:43

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-TB05-20190314

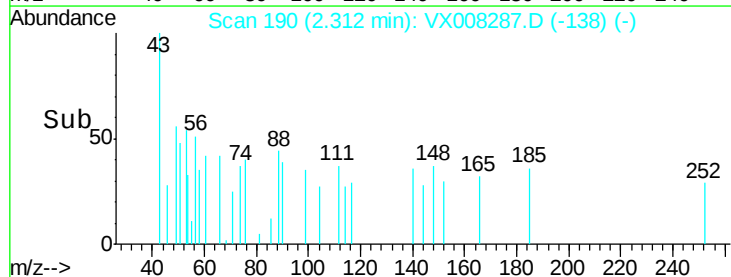
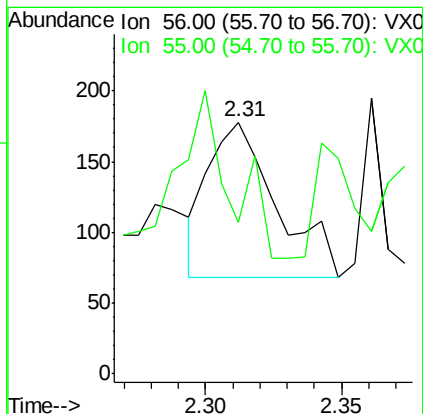
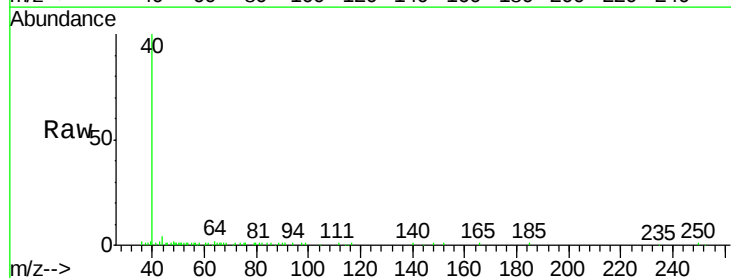
Tot Ion: 59 Resp: 2070
 Ion Ratio Lower Upper
 59 100
 57 12.8 8.2 12.2#

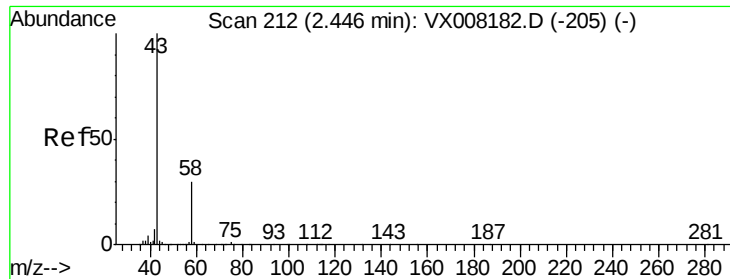


#13

Acrolein
 Concen: Below Cal
 RT: 2.31 min Scan# 190
 Delta R.T. 0.02 min
 Lab File: VX008287.D
 Acq: 21 Mar 2019 13:43

Tgt Ion: 56 Resp: 191
 Ion Ratio Lower Upper
 56 100
 55 80.1 57.8 86.6





#16

Acetone

Concen: 0.469 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX008287.D

Acq: 21 Mar 2019 13:43

Instrument :

MSVOA_X

ClientSampleId :

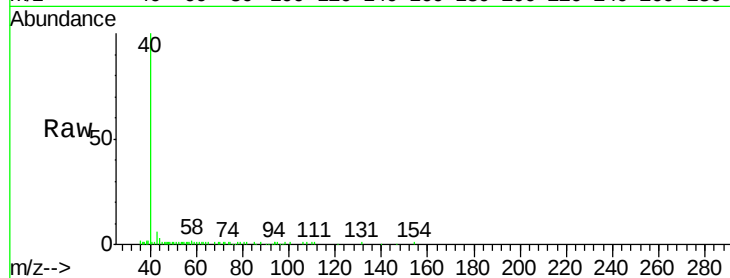
BP-TB05-20190314

Tot Ion: 43 Resp: 1223

Ion Ratio Lower Upper

43 100

58 39.3 25.5 38.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.45

800

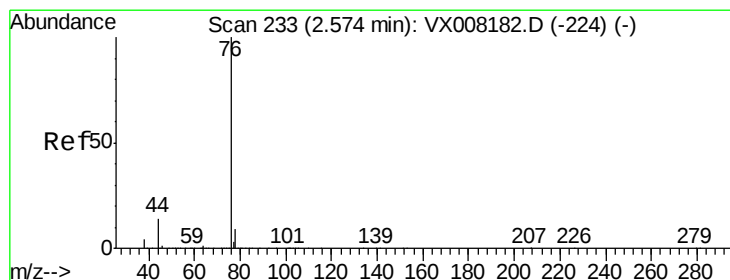
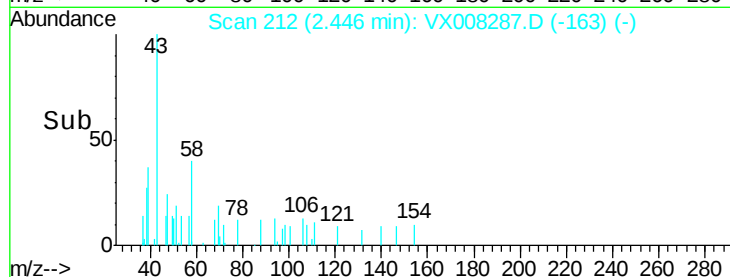
600

400

200

0

Time--> 2.40 2.45 2.50



#17

Carbon Disulfide

Concen: 0.848 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.00 min

Lab File: VX008287.D

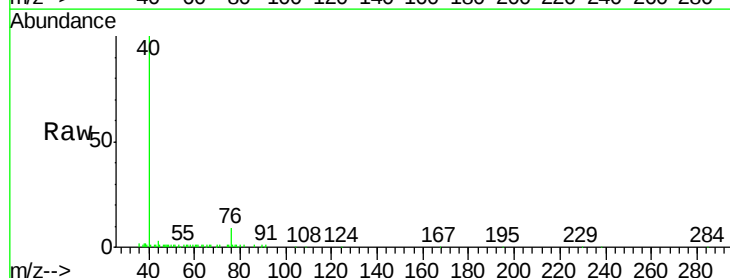
Acq: 21 Mar 2019 13:43

Tgt Ion: 76 Resp: 2119

Ion Ratio Lower Upper

76 100

78 28.6 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

1200

1000

800

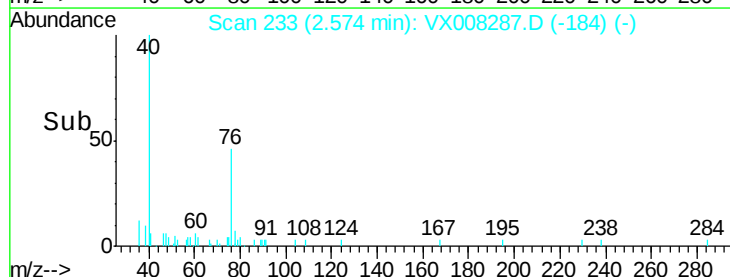
600

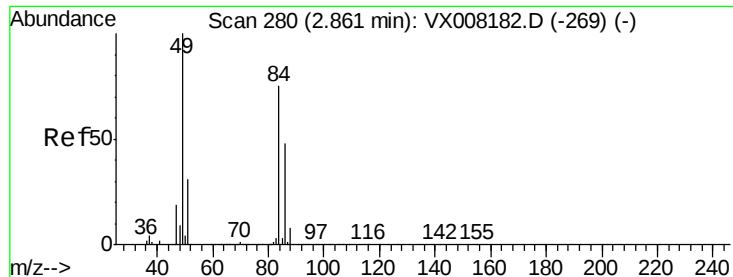
400

200

0

Time--> 2.50 2.55 2.60 2.65

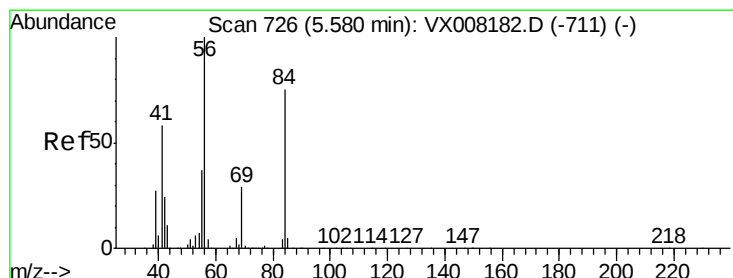
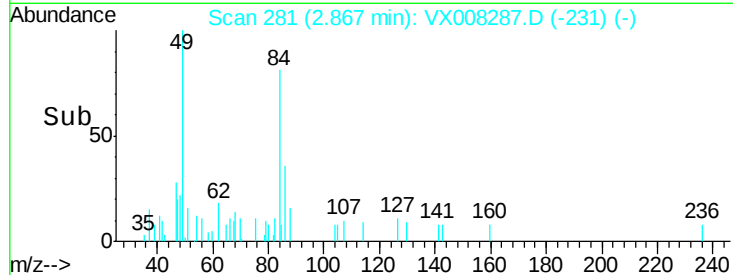
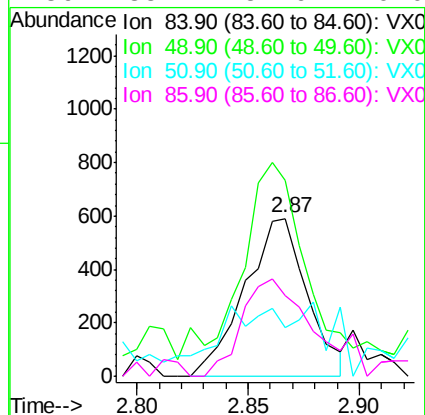
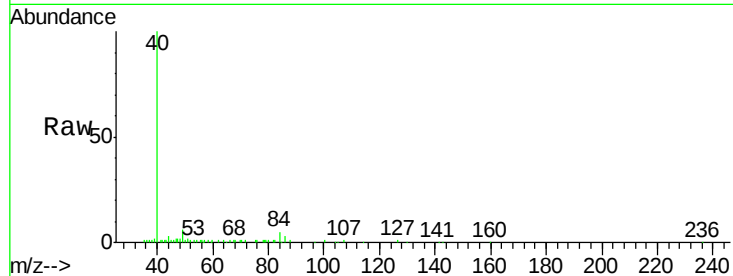




#20
Methvlene Chloride
Concen: 0.266 ug/l
RT: 2.87 min Scan# 281
Delta R.T. 0.01 min
Lab File: VX008287.D
Acq: 21 Mar 2019 13:43

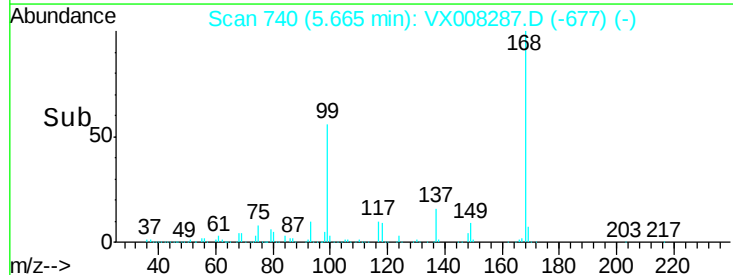
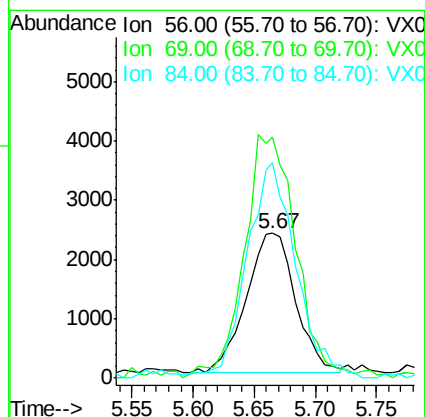
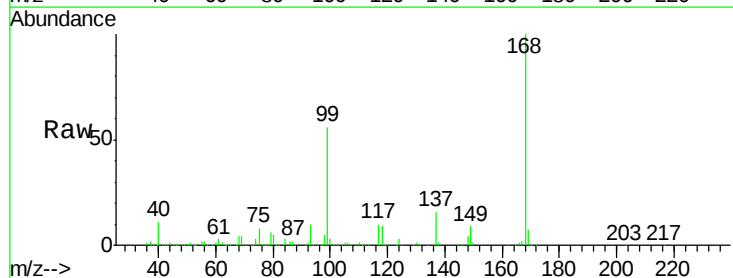
Instrument :
MSVOA_X
ClientSampleId :
BP-TB05-20190314

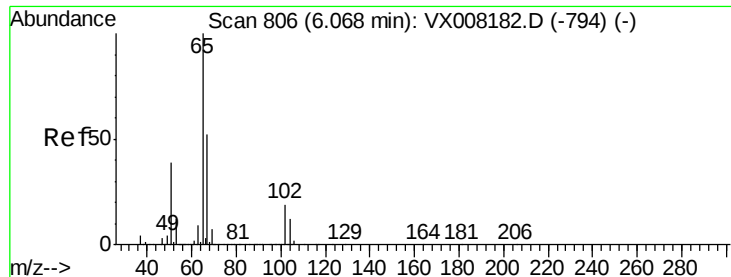
Tot Ion: 84 Resp: 1155
Ion Ratio Lower Upper
84 100
49 96.1 99.3 148.9#
51 17.9 31.3 46.9#
86 35.7 52.6 79.0#



#31
Cyclohexane
Concen: 0.864 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.09 min
Lab File: VX008287.D
Acq: 21 Mar 2019 13:43

Tgt Ion: 56 Resp: 6587
Ion Ratio Lower Upper
56 100
69 168.2 24.0 36.0#
84 152.8 65.3 97.9#





#33

1,2-Dichloroethane-d4

Concen: 46.302 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX008287.D

Acq: 21 Mar 2019 13:43

Instrument :

MSVOA_X

ClientSampleId :

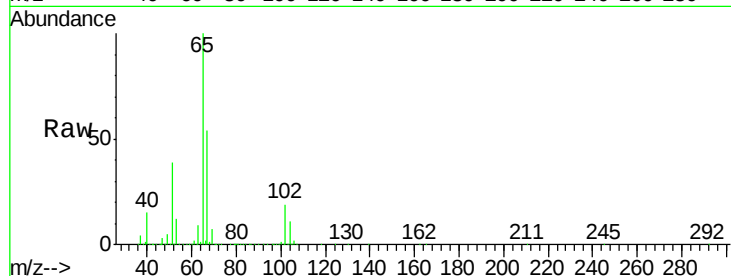
BP-TB05-20190314

Tot Ion: 65 Resp: 212813

Ion Ratio Lower Upper

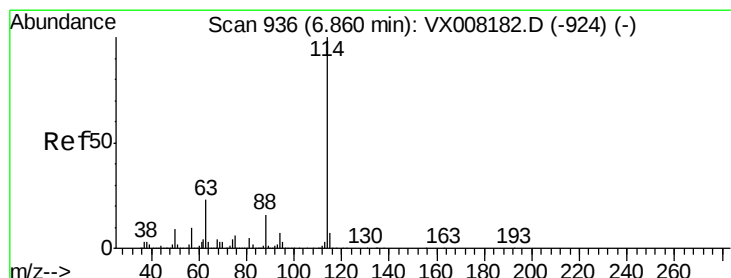
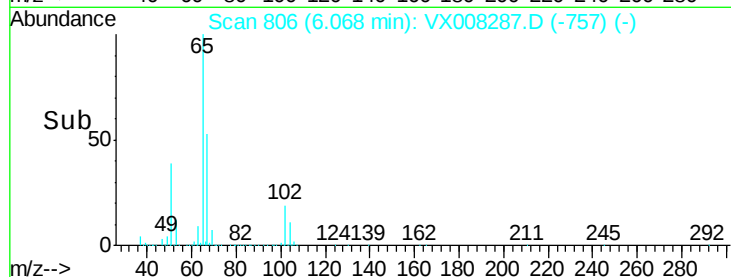
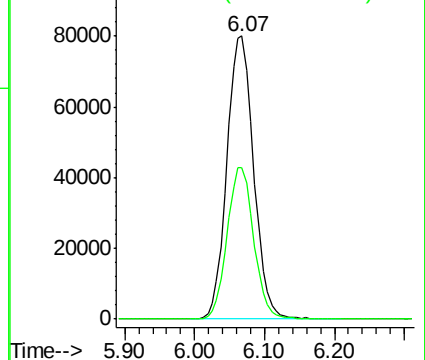
65 100

67 53.2 0.0 110.0



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: VX008287.D

Acq: 21 Mar 2019 13:43

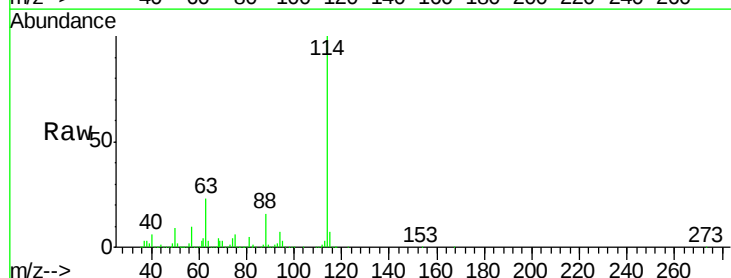
Tgt Ion: 114 Resp: 497880

Ion Ratio Lower Upper

114 100

63 23.0 0.0 39.8

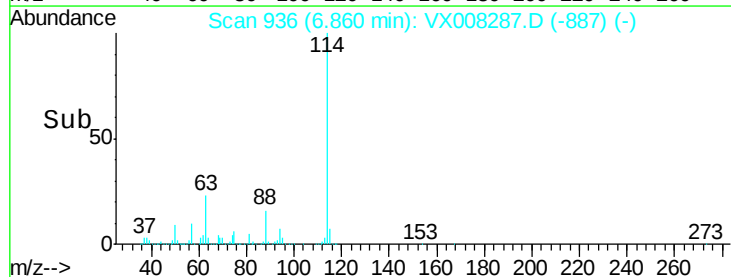
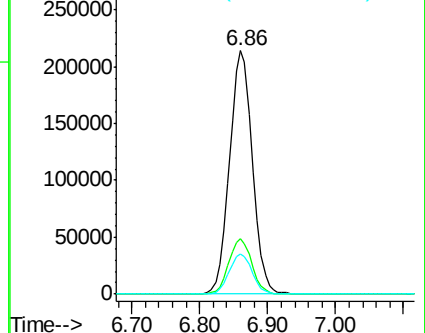
88 16.3 0.0 31.4

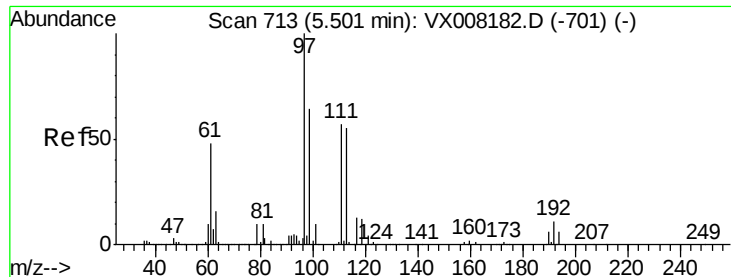


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 48.421 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX008287.D

Acq: 21 Mar 2019 13:43

Instrument :

MSVOA_X

ClientSampleId :

BP-TB05-20190314

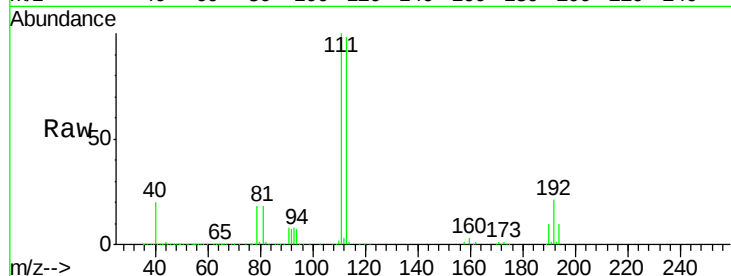
Tot Ion:113 Resp: 161387

Ion Ratio Lower Upper

113 100

111 102.0 81.4 122.0

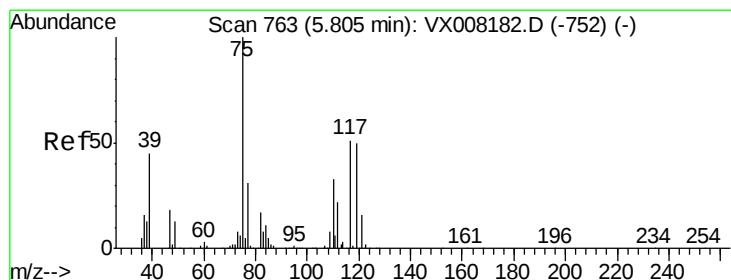
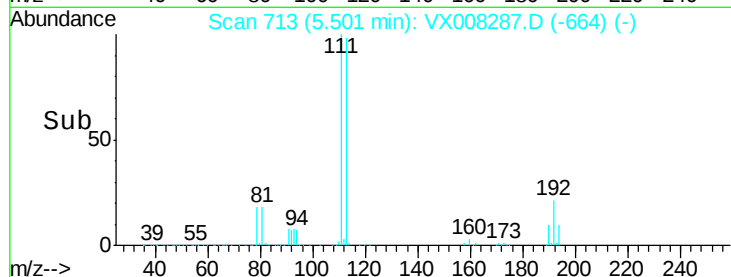
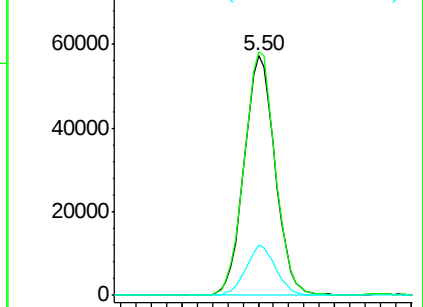
192 20.2 19.4 29.0



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: 4.152 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.14 min

Lab File: VX008287.D

Acq: 21 Mar 2019 13:43

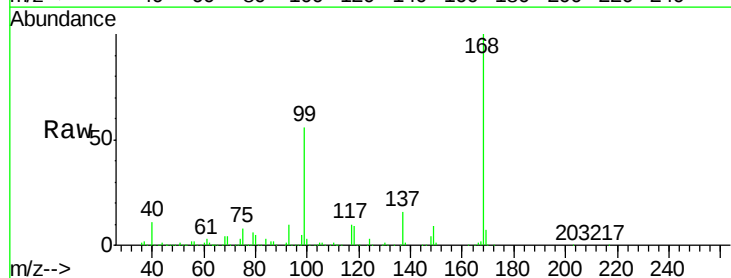
Tgt Ion: 75 Resp: 24066

Ion Ratio Lower Upper

75 100

110 9.7 18.4 55.0#

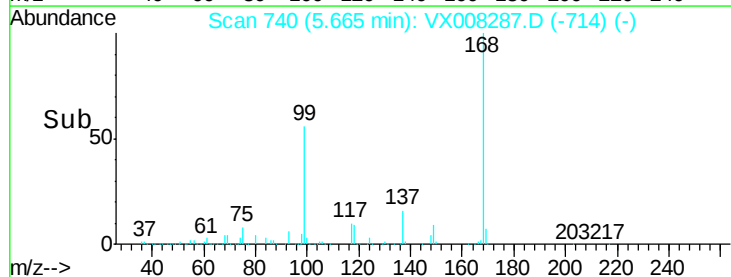
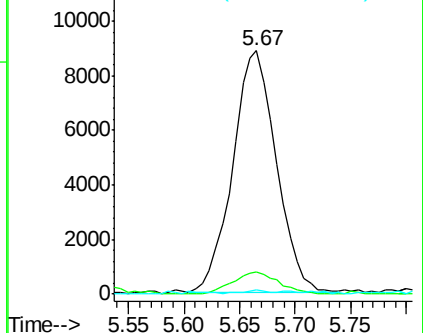
77 1.0 25.0 37.4#

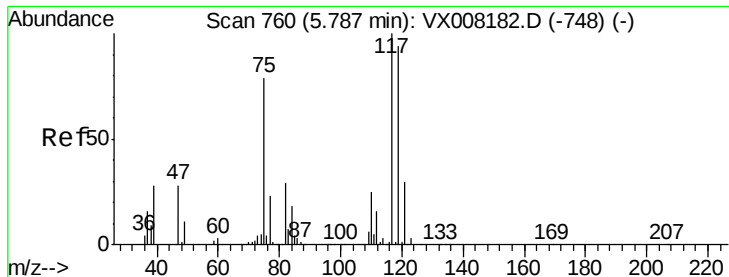


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.855 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX008287.D

Acq: 21 Mar 2019 13:43

Instrument :

MSVOA_X

ClientSampleId :

BP-TB05-20190314

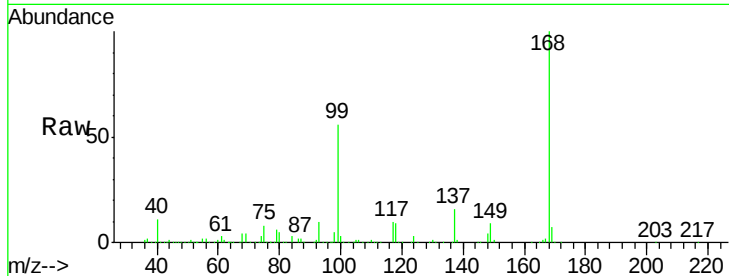
Tot Ion:117 Resp: 30239

Ion Ratio Lower Upper

117 100

119 4.6 76.2 114.2#

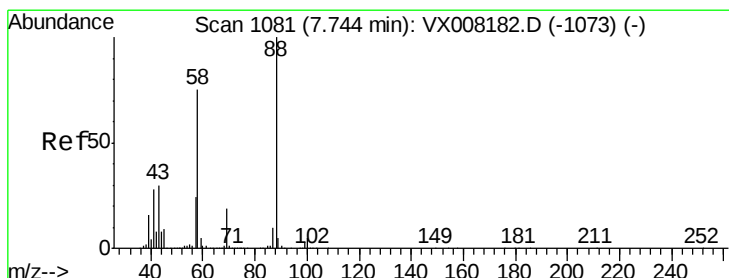
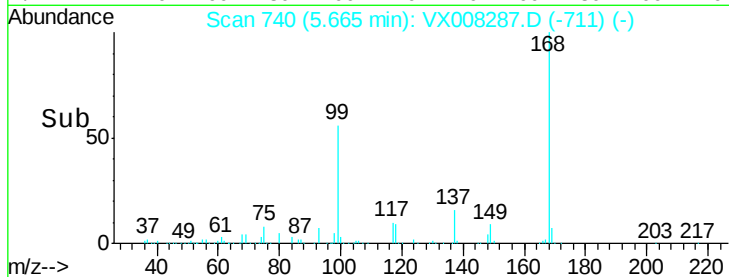
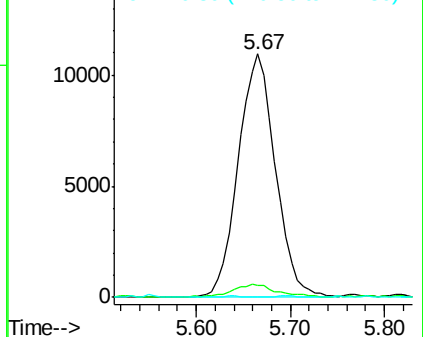
121 0.0 24.6 36.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#49

1,4-Dioxane

Concen: 0.650 ug/l

RT: 7.73 min Scan# 1078

Delta R.T. -0.02 min

Lab File: VX008287.D

Acq: 21 Mar 2019 13:43

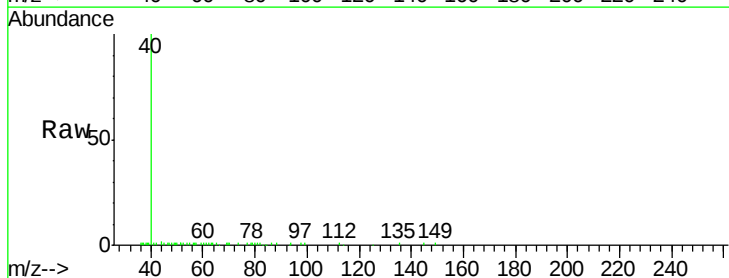
Tgt Ion: 88 Resp: 67

Ion Ratio Lower Upper

88 100

43 0.0 25.1 37.7#

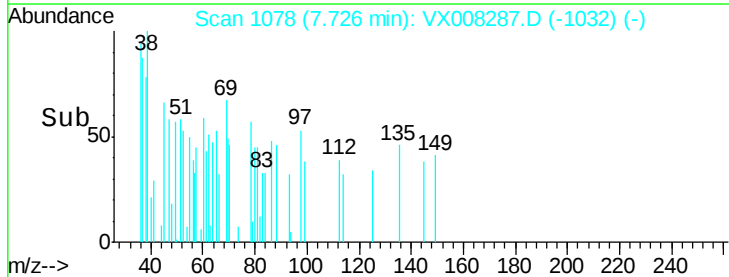
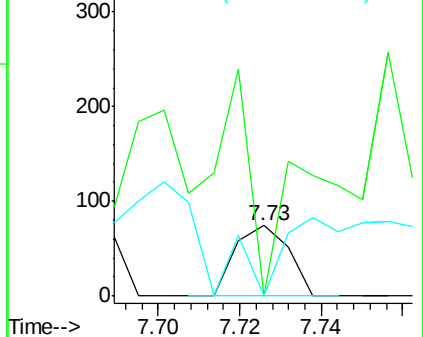
58 119.4 57.8 86.6#

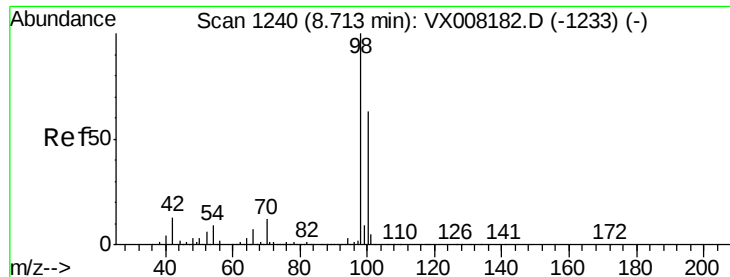


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 48.485 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX008287.D

Acq: 21 Mar 2019 13:43

Instrument :

MSVOA_X

ClientSampleId :

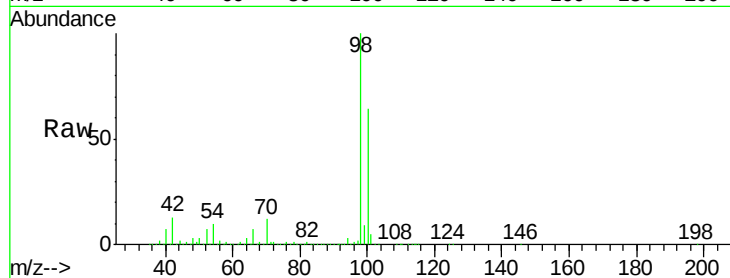
BP-TB05-20190314

Tot Ion: 98 Resp: 612679

Ion Ratio Lower Upper

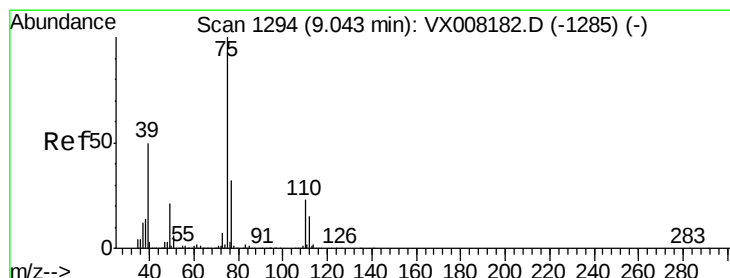
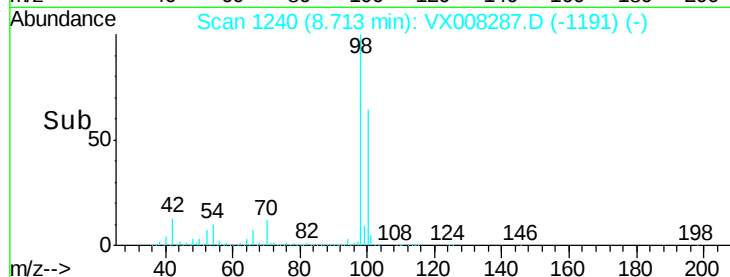
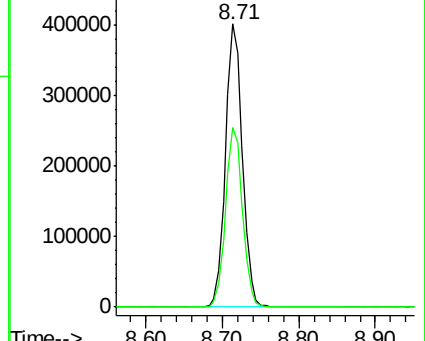
98 100

100 63.6 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#53

t-1,3-Dichloropropene

Concen: 1.466 ug/l

RT: 9.05 min Scan# 1296

Delta R.T. 0.01 min

Lab File: VX008287.D

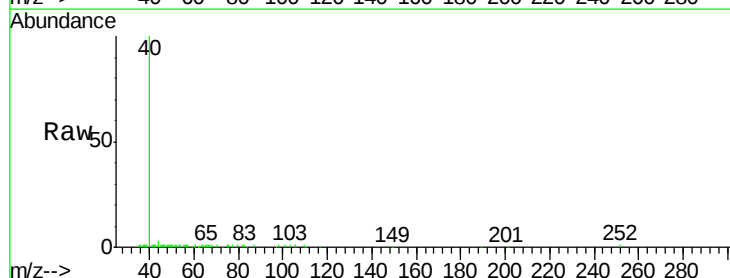
Acq: 21 Mar 2019 13:43

Tgt Ion: 75 Resp: 314

Ion Ratio Lower Upper

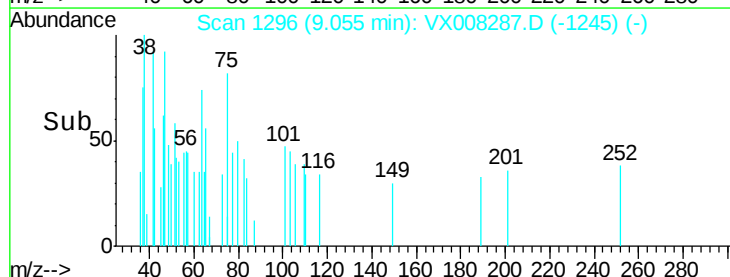
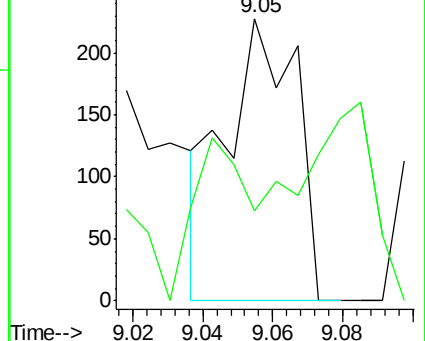
75 100

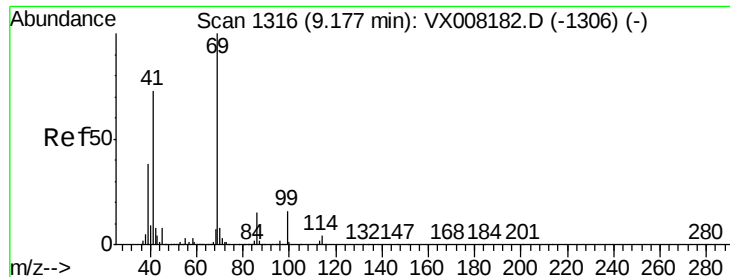
77 0.0 25.4 38.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0





#56

Ethyl methacrylate

Concen: 0.561 ug/l

RT: 9.18 min Scan# 1317

Delta R.T. 0.01 min

Lab File: VX008287.D

Acq: 21 Mar 2019 13:43

Instrument :

MSVOA_X

ClientSampleId :

BP-TB05-20190314

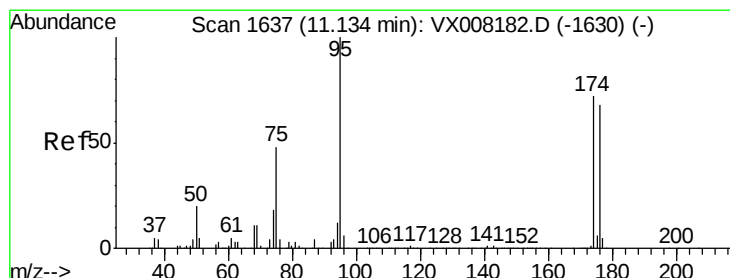
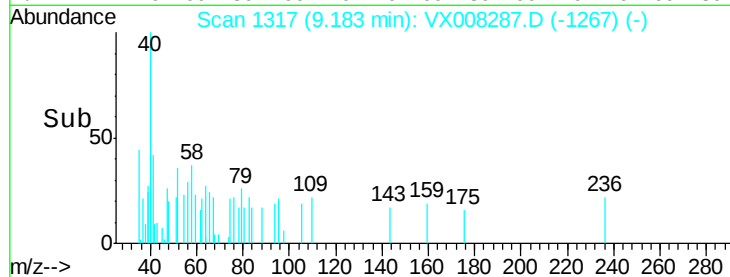
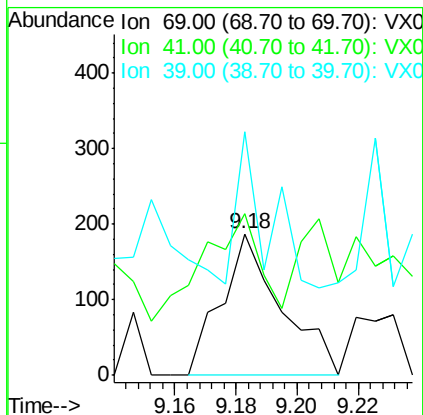
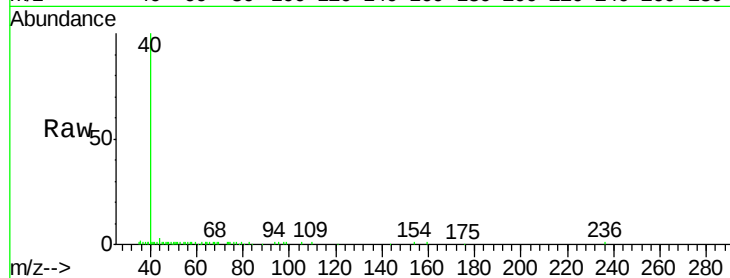
Tot Ion: 69 Resp: 255

Ion Ratio Lower Upper

69 100

41 71.4 54.2 81.4

39 53.7 25.0 37.4#



#62

4-Bromofluorobenzene

Concen: 45.249 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX008287.D

Acq: 21 Mar 2019 13:43

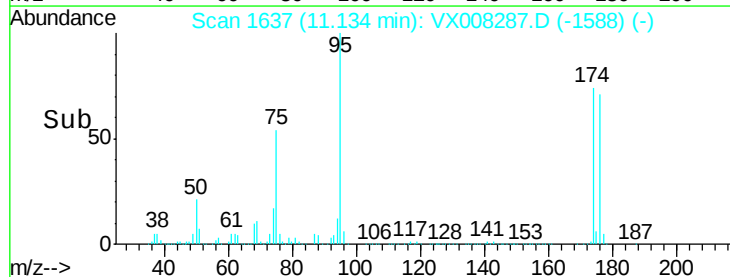
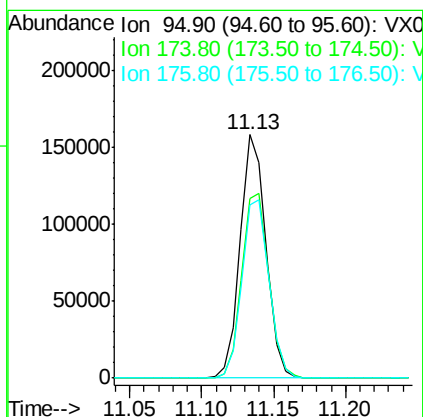
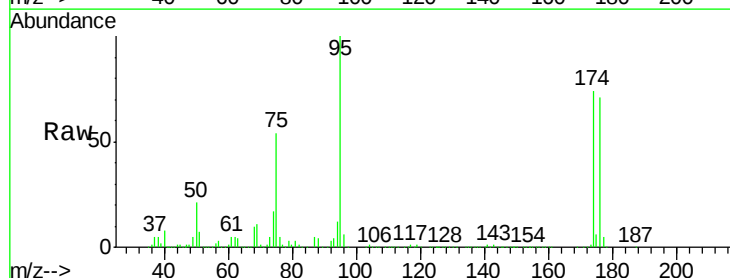
Tgt Ion: 95 Resp: 196877

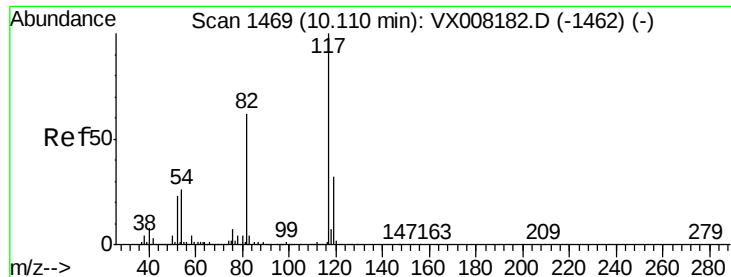
Ion Ratio Lower Upper

95 100

174 79.4 0.0 182.8

176 76.7 0.0 178.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX008287.D

Acq: 21 Mar 2019 13:43

Instrument :

MSVOA_X

ClientSampleId :

BP-TB05-20190314

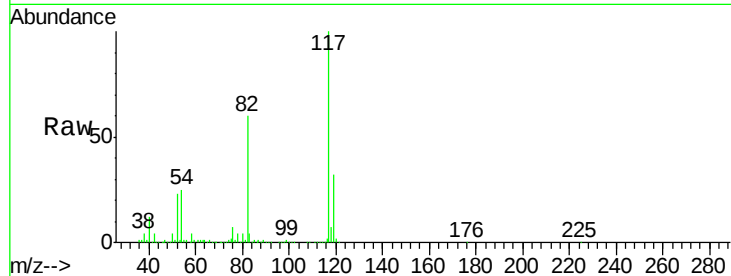
Tot Ion:117 Resp: 423436

Ion Ratio Lower Upper

117 100

82 60.4 44.3 66.5

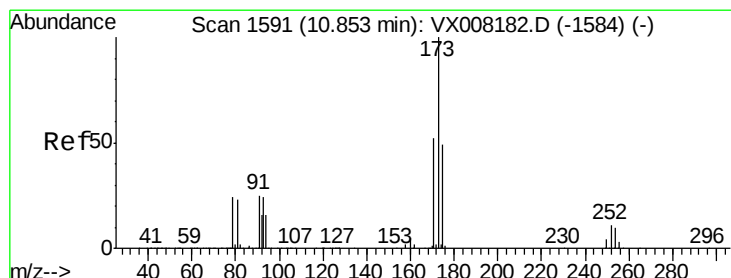
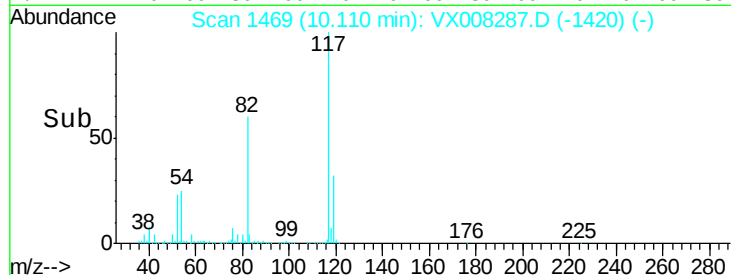
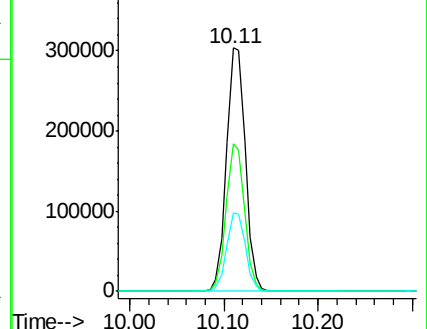
119 32.0 25.3 37.9



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



#71

Bromoform

Concen: 2.222 ug/l

RT: 10.85 min Scan# 1591

Delta R.T. 0.00 min

Lab File: VX008287.D

Acq: 21 Mar 2019 13:43

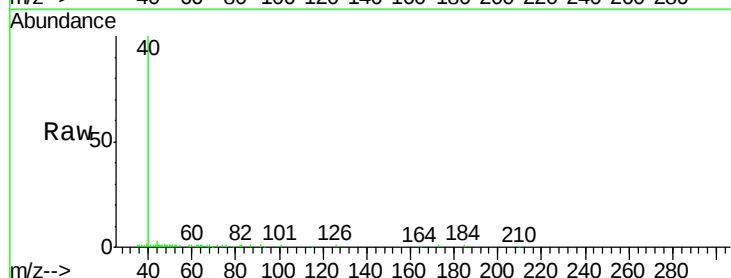
Tgt Ion:173 Resp: 63

Ion Ratio Lower Upper

173 100

175 0.0 24.3 72.9#

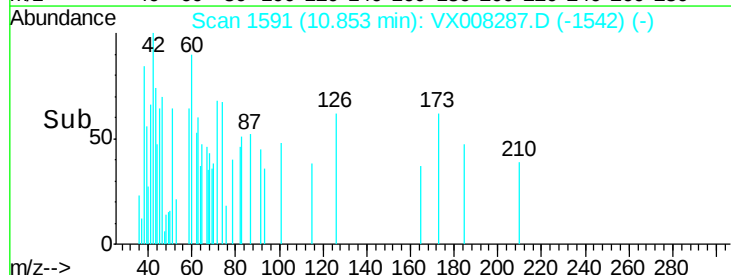
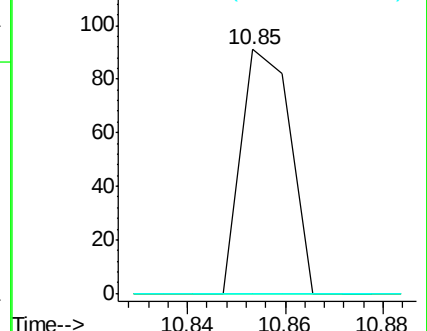
254 0.0 0.1 0.1#

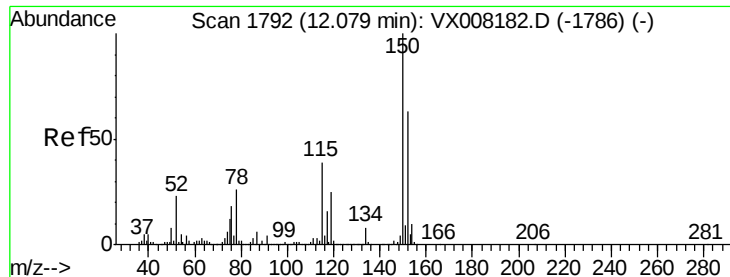


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): 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: VX008287.D

Acq: 21 Mar 2019 13:43

Instrument :

MSVOA_X

ClientSampleId :

BP-TB05-20190314

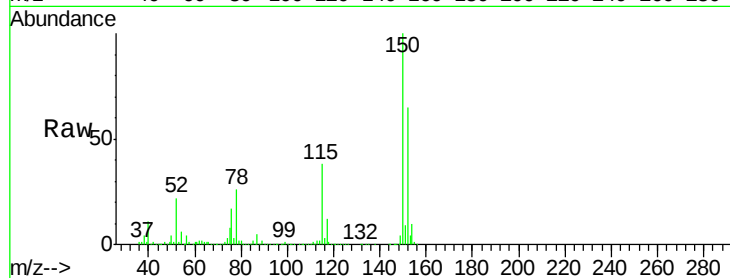
Tot Ion:152 Resp: 172974

Ion Ratio Lower Upper

152 100

115 59.0 38.6 115.7

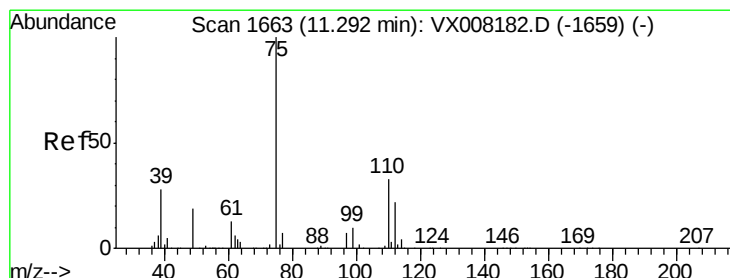
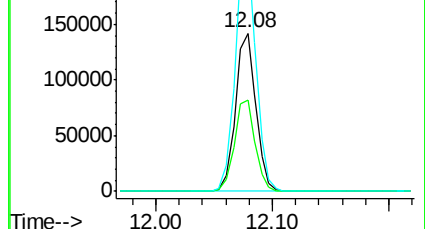
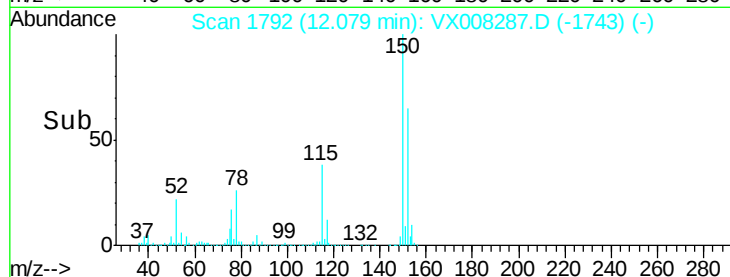
150 154.6 0.0 348.4



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: 21.313 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008287.D

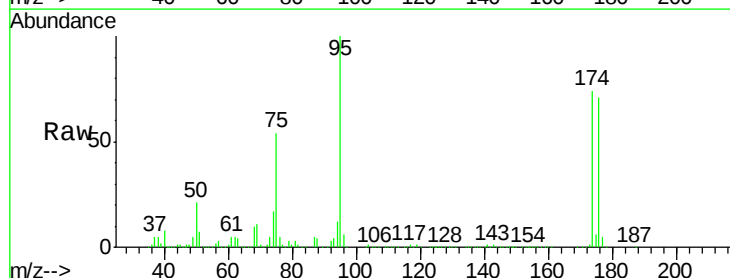
Acq: 21 Mar 2019 13:43

Tgt Ion: 75 Resp: 103689

Ion Ratio Lower Upper

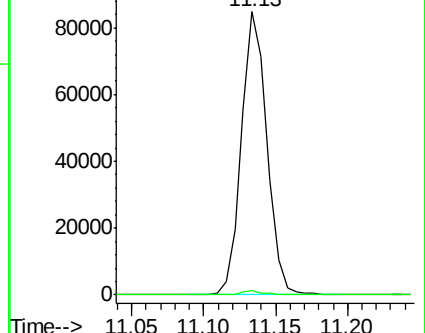
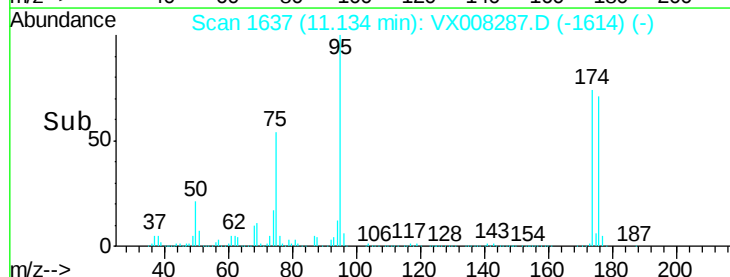
75 100

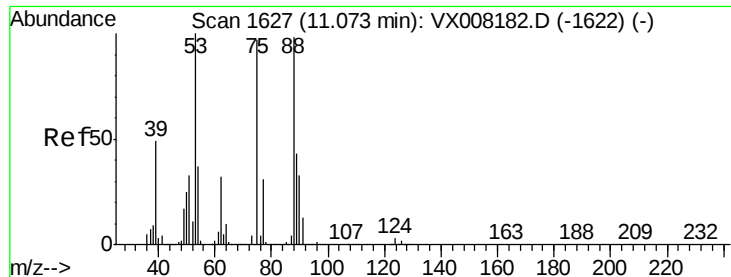
77 1.4 18.9 56.7#



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: 54.208 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008287.D

Acq: 21 Mar 2019 13:43

Instrument :

MSVOA_X

ClientSampleId :

BP-TB05-20190314

Tot Ion: 75 Resp: 103689

Ion Ratio Lower Upper

75 100

53 0.0 76.1 114.1#

89 0.1 36.3 54.5#

