

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101018\
 Data File : VX005210.D
 Acq On : 10 Oct 2018 16:53
 Operator : JC/MD
 Sample : J5317-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-TT-TB03-20181004

Quant Time: Oct 11 06:04:59 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	178494	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	281364	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	274799	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	150690	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	136713	53.62	ug/l	0.00
Spiked Amount			Recovery	=	107.24%	
35) Dibromofluoromethane	5.51	113	117517	49.28	ug/l	0.00
Spiked Amount			Recovery	=	98.56%	
50) Toluene-d8	8.72	98	406172	51.24	ug/l	0.00
Spiked Amount			Recovery	=	102.48%	
62) 4-Bromofluorobenzene	11.14	95	143523	50.25	ug/l	0.00
Spiked Amount			Recovery	=	100.50%	

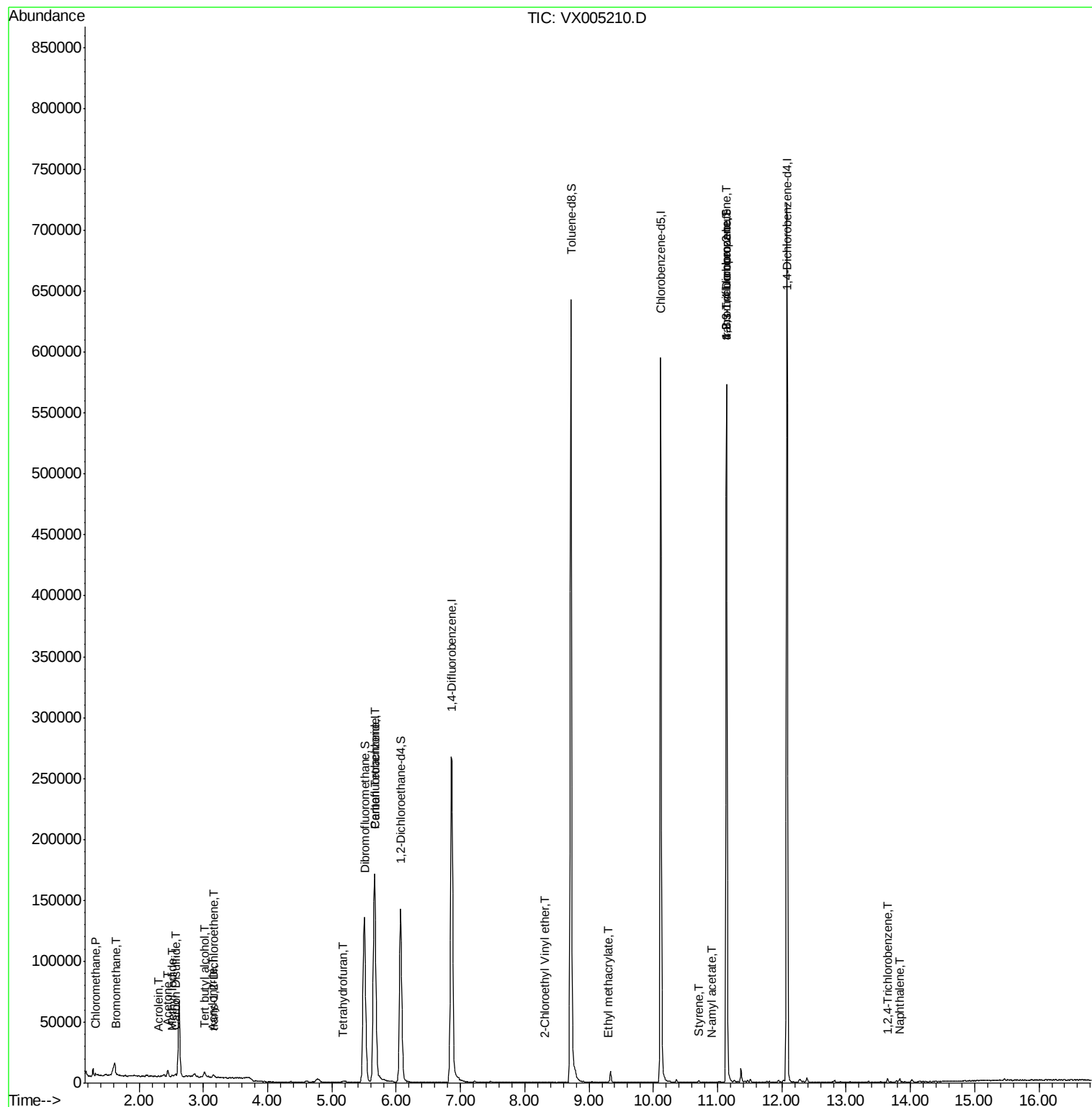
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1056	0.358	ug/l	93
5) Bromomethane	1.64	94	836	0.509	ug/l #	55
6) Chloroethane	1.72	64	278	Below Cal	#	21
10) Methyl Iodide	2.51	142	893	0.342	ug/l #	77
11) Tert butyl alcohol	3.02	59	3097	4.344	ug/l #	77
13) Acrolein	2.29	56	253	0.499	ug/l	90
15) Acrylonitrile	3.15	53	912	0.581	ug/l #	85
16) Acetone	2.45	43	5351	3.595	ug/l	98
17) Carbon Disulfide	2.57	76	2537	0.437	ug/l #	94
20) Methylene Chloride	2.85	84	1163	Below Cal	#	58
21) trans-1,2-Dichloroethene	3.17	96	530	0.250	ug/l #	62
29) Tetrahydrofuran	5.17	42	987	0.724	ug/l #	57
38) Carbon Tetrachloride	5.66	117	16428	4.804	ug/l #	17
56) Ethyl methacrylate	9.30	69	23	2.868	ug/l #	1
58) 2-Chloroethyl Vinyl ether	8.32	63	20	14.251	ug/l #	49
70) Styrene	10.72	104	266	2.174	ug/l #	86
74) N-amyl acetate	10.90	43	187	1.782	ug/l #	43
76) 1,2,3-Trichloropropane	11.14	75	70524	20.880	ug/l #	35
80) 1,3,5-Trimethylbenzene	11.51	105	509	Below Cal		85
81) trans-1,4-Dichloro-2-buten	11.14	75	70524	56.673	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.80	105	514	Below Cal		91
93) 1,2,4-Trichlorobenzene	13.65	180	799	0.212	ug/l	89
95) Naphthalene	13.83	128	1705	0.854	ug/l	98

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

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX005210.D

Acq: 10 Oct 2018 16:53

Instrument :

MSVOA_X

ClientSampleId :

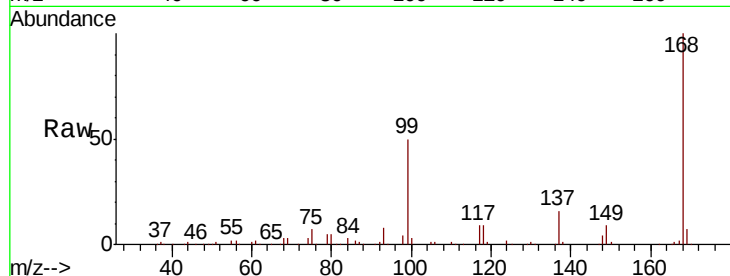
BP-TT-TB03-20181004

Tot Ion:168 Resp: 178494

Ion Ratio Lower Upper

168 100

99 50.0 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): VX004724.D (-727) (-)

Ion 98.90 (98.60 to 99.60): VX005210.D (-690) (-)

5.67

60000

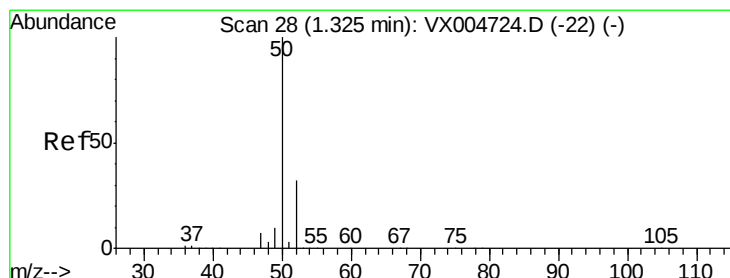
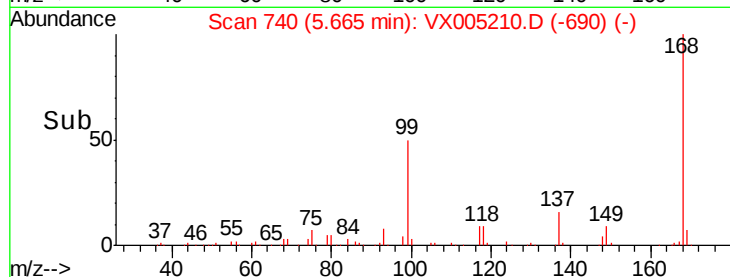
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.358 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.00 min

Lab File: VX005210.D

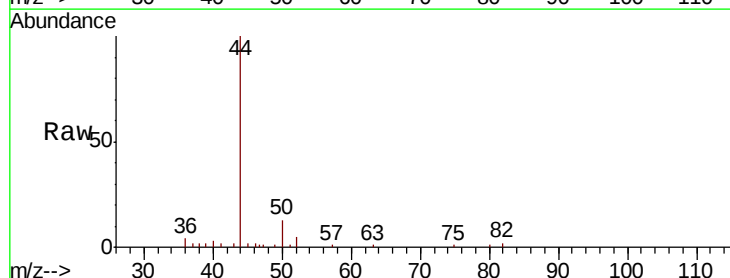
Acq: 10 Oct 2018 16:53

Tgt Ion: 50 Resp: 1056

Ion Ratio Lower Upper

50 100

52 36.4 25.8 38.6



Abundance Ion 49.90 (49.60 to 50.60): VX004724.D (-22) (-)

Ion 51.90 (51.60 to 52.60): VX005210.D (-1) (-)

1.32

800

600

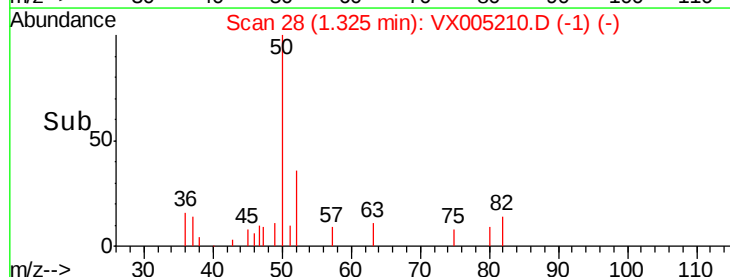
400

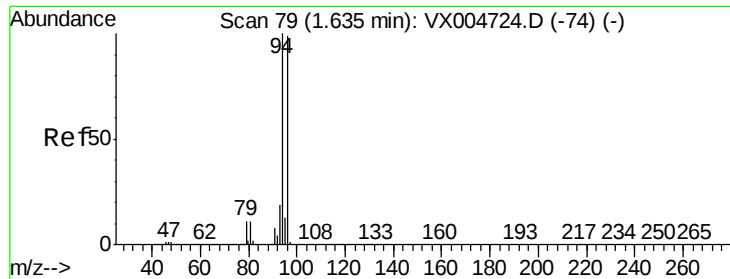
200

0

Time-->

1.30 1.35 1.40





#5

Bromomethane

Concen: 0.509 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX005210.D

Acq: 10 Oct 2018 16:53

Instrument :

MSVOA_X

ClientSampleId :

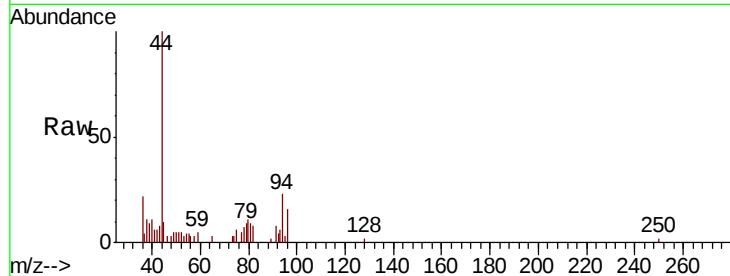
BP-TT-TB03-20181004

Tot Ion: 94 Resp: 836

Ion Ratio Lower Upper

94 100

96 55.0 79.5 119.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

500

400

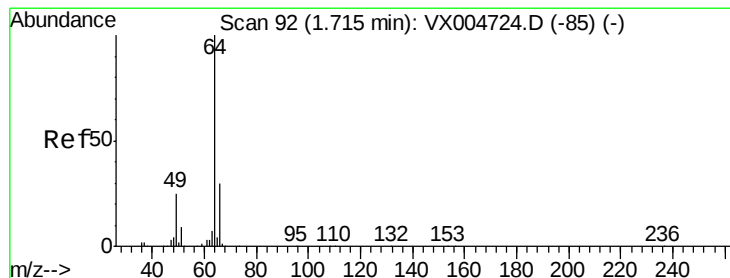
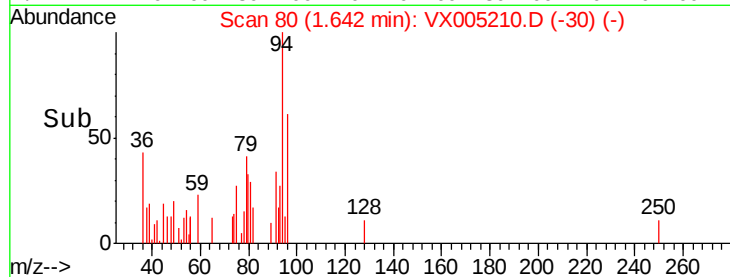
300

200

100

0

Time-->



#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 93

Delta R.T. 0.01 min

Lab File: VX005210.D

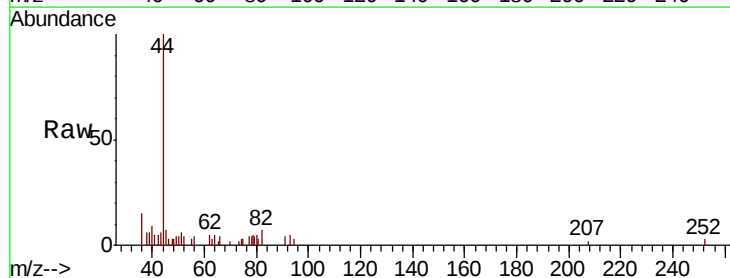
Acq: 10 Oct 2018 16:53

Tgt Ion: 64 Resp: 278

Ion Ratio Lower Upper

64 100

66 72.1 23.8 35.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

250

200

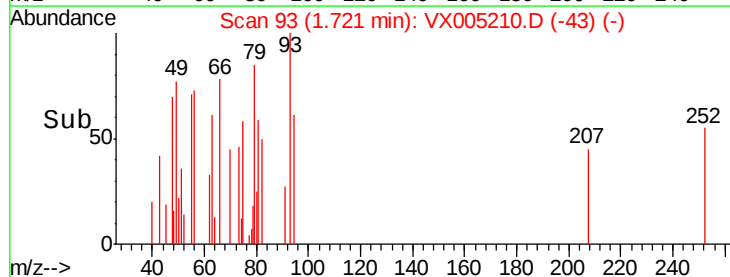
150

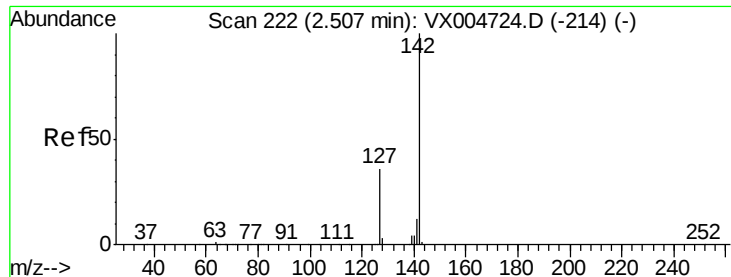
100

50

0

Time-->

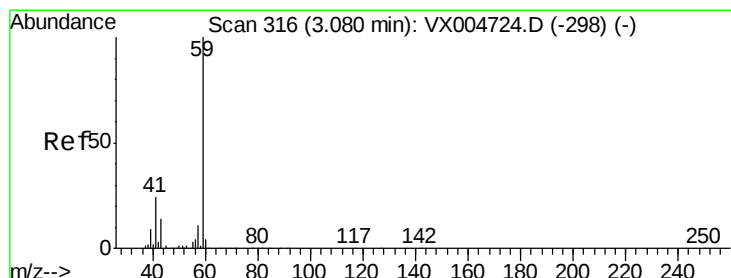
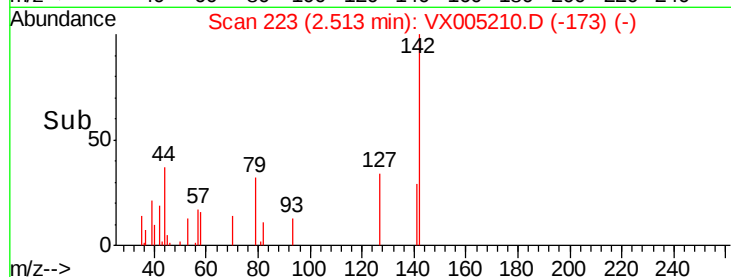
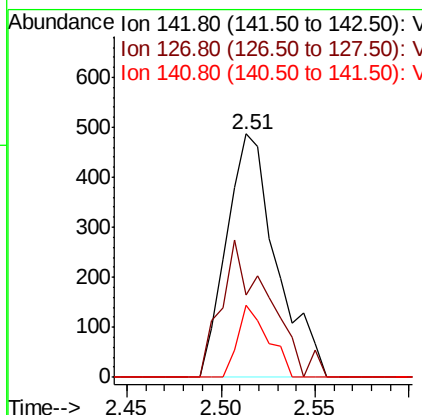
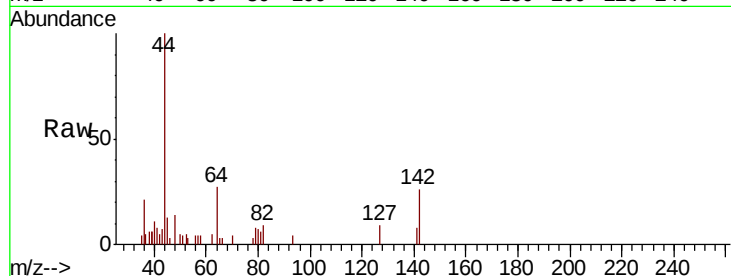




#10
Methvl Iodide
Concen: 0.342 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX005210.D
Acq: 10 Oct 2018 16:53

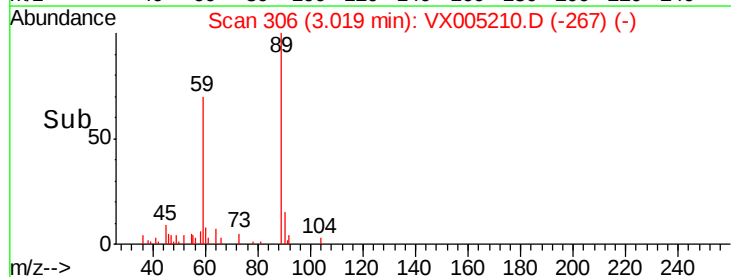
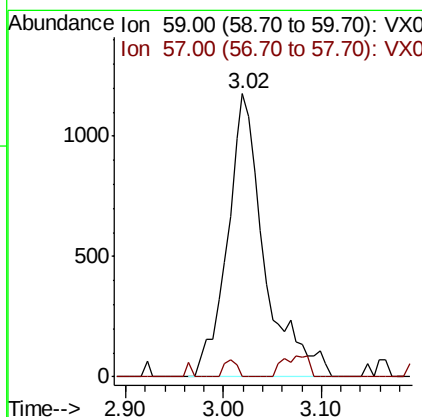
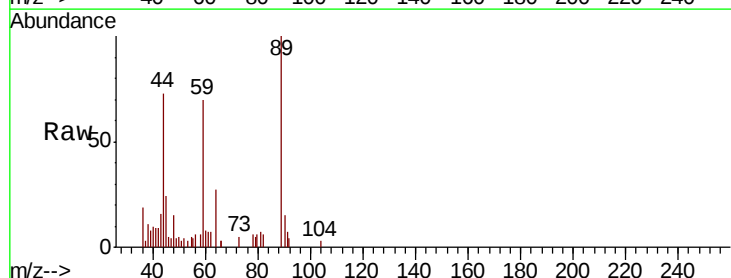
Instrument :
MSVOA_X
ClientSampleId :
BP-TT-TB03-20181004

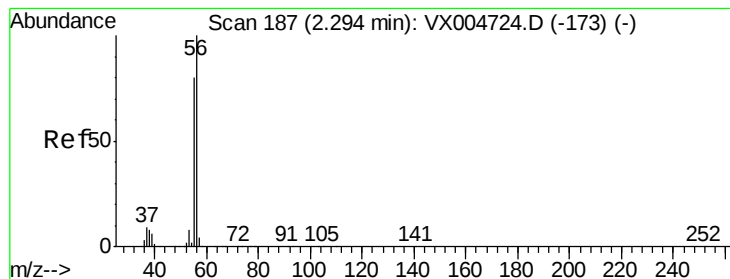
Tot Ion:142 Resp: 893
Ion Ratio Lower Upper
142 100
127 53.5 30.1 45.1#
141 18.0 10.1 15.1#



#11
Tert butyl alcohol
Concen: 4.344 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.06 min
Lab File: VX005210.D
Acq: 10 Oct 2018 16:53

Tgt Ion: 59 Resp: 3097
Ion Ratio Lower Upper
59 100
57 2.1 8.6 12.8#





#13

Acrolein

Concen: 0.499 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.00 min

Lab File: VX005210.D

Acq: 10 Oct 2018 16:53

Instrument :

MSVOA_X

ClientSampleId :

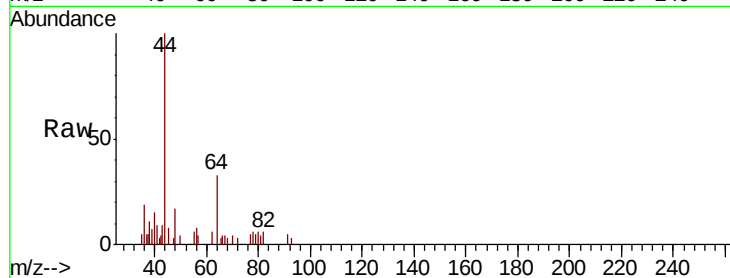
BP-TT-TB03-20181004

Tot Ion: 56 Resp: 253

Ion Ratio Lower Upper

56 100

55 70.8 63.4 95.2



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

2.29

150

100

50

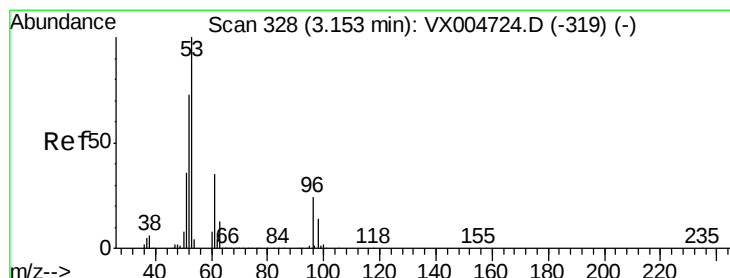
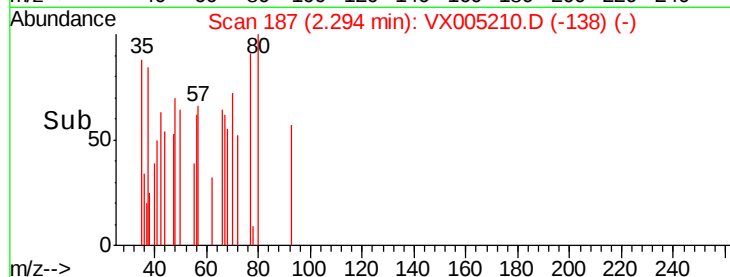
0

2.25

2.30

2.35

Time-->



#15

Acrylonitrile

Concen: 0.581 ug/l

RT: 3.15 min Scan# 327

Delta R.T. -0.01 min

Lab File: VX005210.D

Acq: 10 Oct 2018 16:53

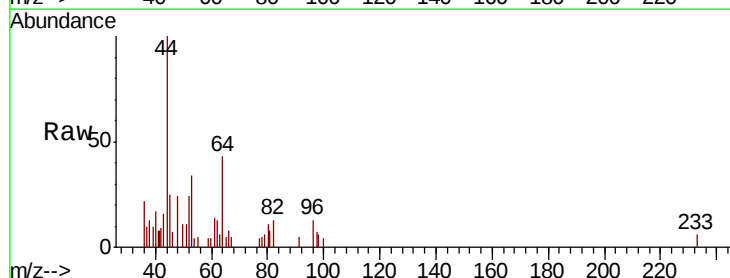
Tgt Ion: 53 Resp: 912

Ion Ratio Lower Upper

53 100

52 60.1 63.0 94.4#

51 34.1 28.6 42.8



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0

500

400

300

200

100

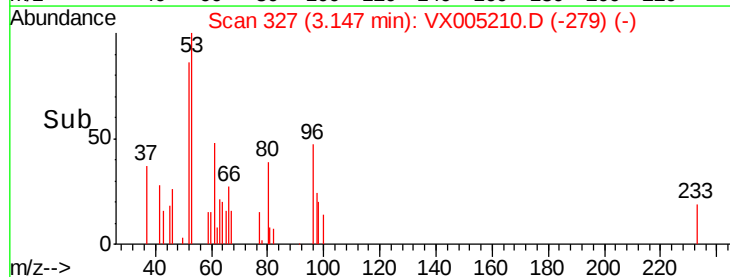
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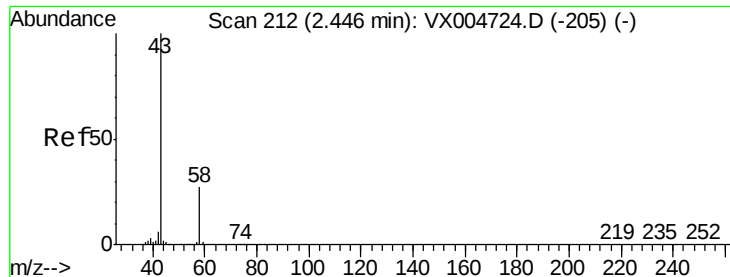
3.10

3.15

3.20

Time-->





#16

Acetone

Concen: 3.595 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX005210.D

Acq: 10 Oct 2018 16:53

Instrument :

MSVOA_X

ClientSampleId :

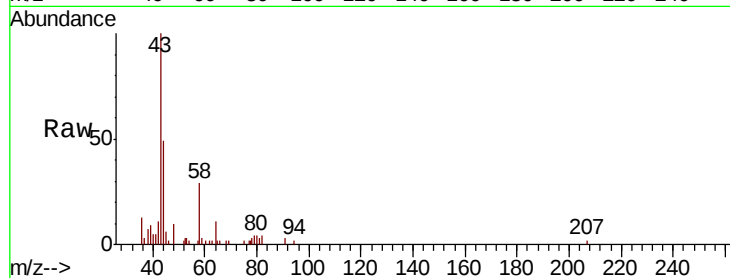
BP-TT-TB03-20181004

Tot Ion: 43 Resp: 5351

Ion Ratio Lower Upper

43 100

58 28.3 21.8 32.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.45

3000

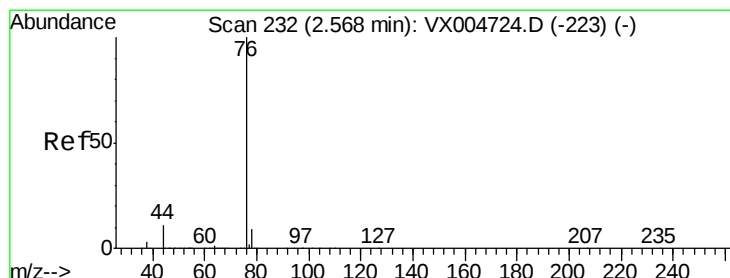
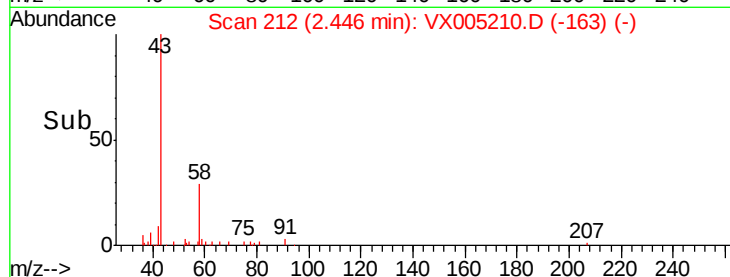
2000

1000

0

2.40 2.45 2.50

Time-->



#17

Carbon Disulfide

Concen: 0.437 ug/l

RT: 2.57 min Scan# 232

Delta R.T. -0.00 min

Lab File: VX005210.D

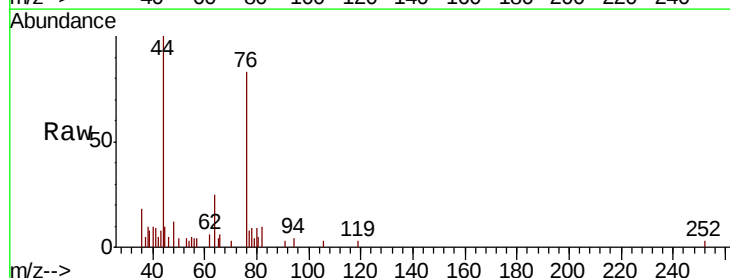
Acq: 10 Oct 2018 16:53

Tgt Ion: 76 Resp: 2537

Ion Ratio Lower Upper

76 100

78 6.7 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

1500

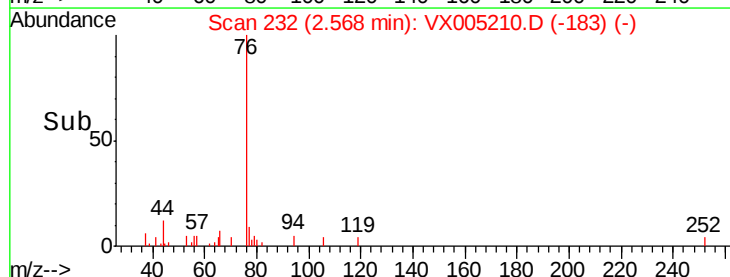
1000

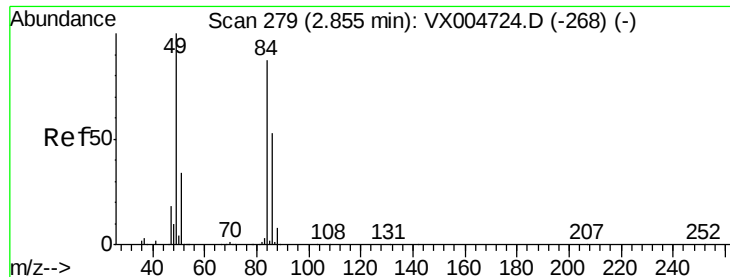
500

0

2.50 2.55 2.60 2.65

Time-->





#20

Methvlene Chloride

Concen: Below Cal

RT: 2.85 min Scan# 279

Delta R.T. -0.00 min

Lab File: VX005210.D

Acq: 10 Oct 2018 16:53

Instrument :

MSVOA_X

ClientSampleId :

BP-TT-TB03-20181004

Tot Ion: 84 Resp: 1163

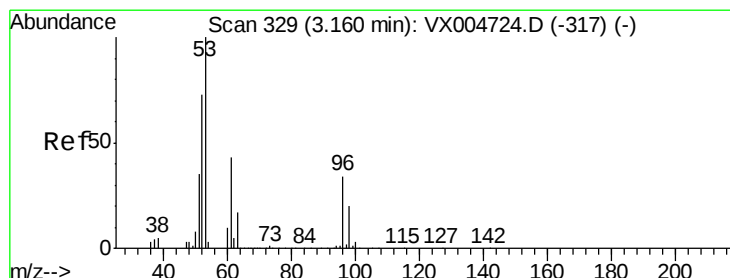
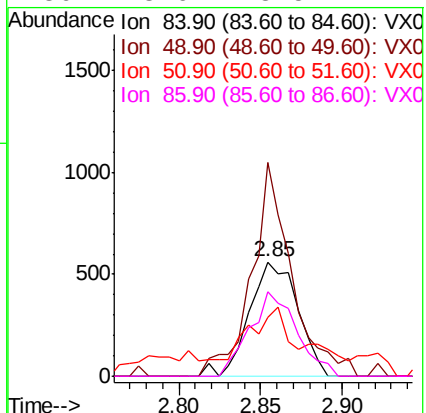
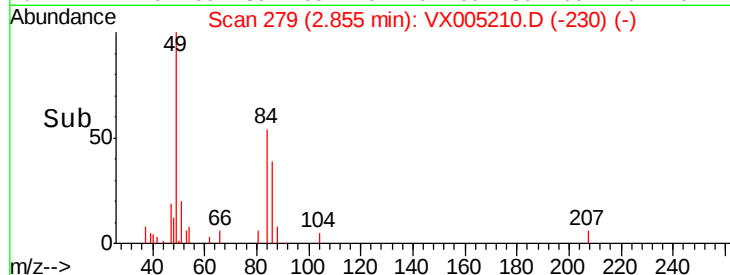
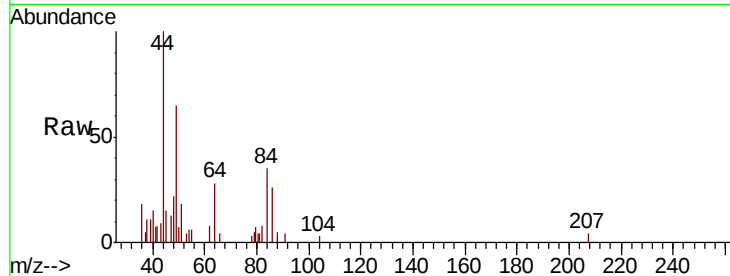
Ion Ratio Lower Upper

84 100

49 186.8 92.3 138.5#

51 33.7 31.8 47.6

86 73.6 48.5 72.7#



#21

trans-1,2-Dichloroethene

Concen: 0.250 ug/l

RT: 3.17 min Scan# 330

Delta R.T. 0.01 min

Lab File: VX005210.D

Acq: 10 Oct 2018 16:53

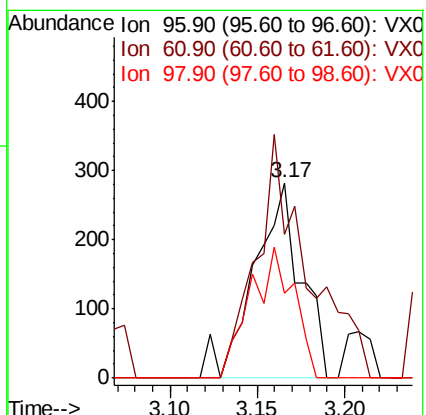
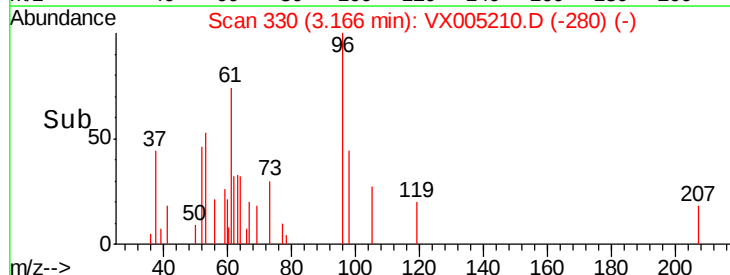
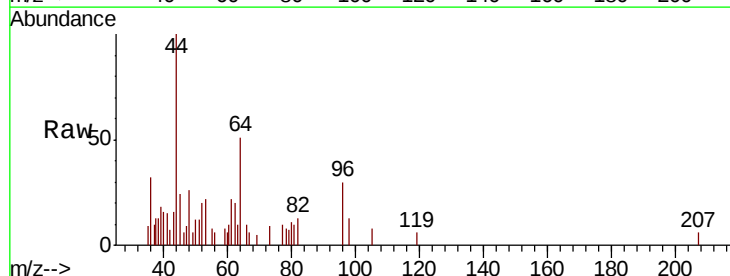
Tgt Ion: 96 Resp: 530

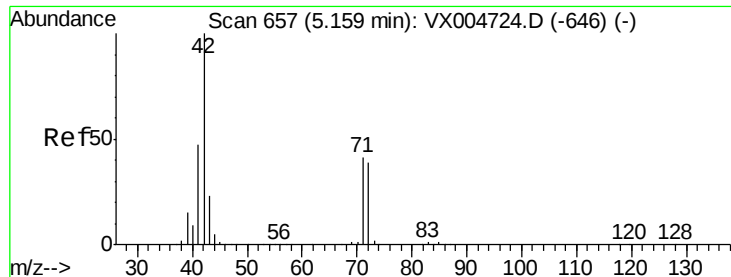
Ion Ratio Lower Upper

96 100

61 73.8 101.0 151.6#

98 43.6 47.2 70.8#





#29

Tetrahydrofuran

Concen: 0.724 ug/l

RT: 5.17 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX005210.D

Acq: 10 Oct 2018 16:53

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BP-TT-TB03-20181004

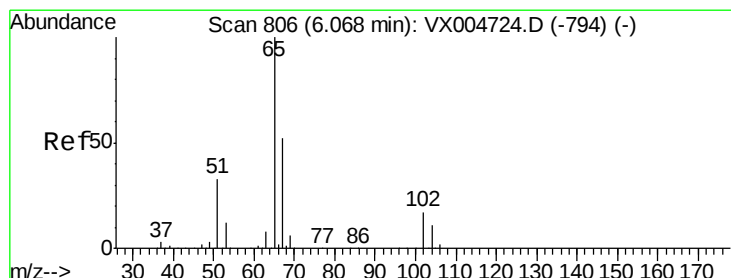
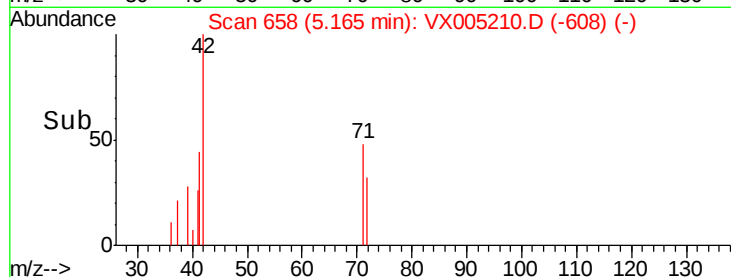
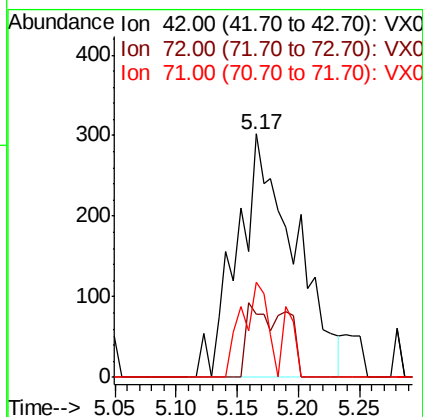
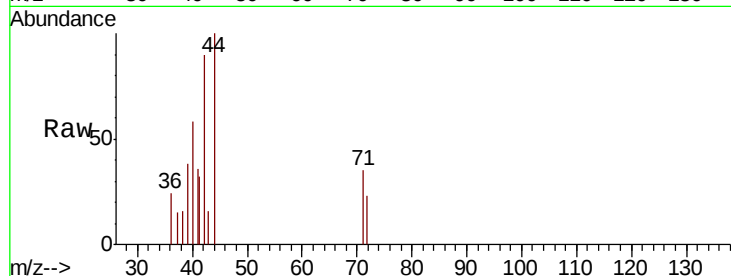
Tot Ion: 42 Resp: 987

Ion Ratio Lower Upper

42 100

72 11.3 33.7 50.5#

71 17.6 32.2 48.4#



#33

1,2-Dichloroethane-d4

Concen: 53.617 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX005210.D

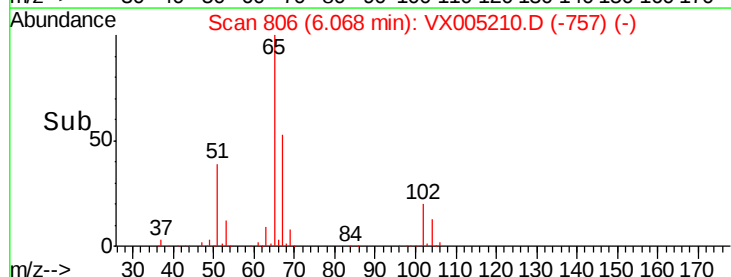
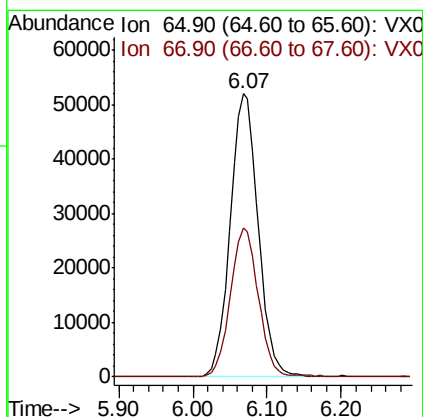
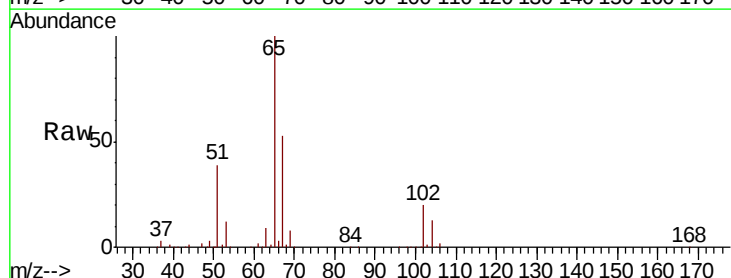
Acq: 10 Oct 2018 16:53

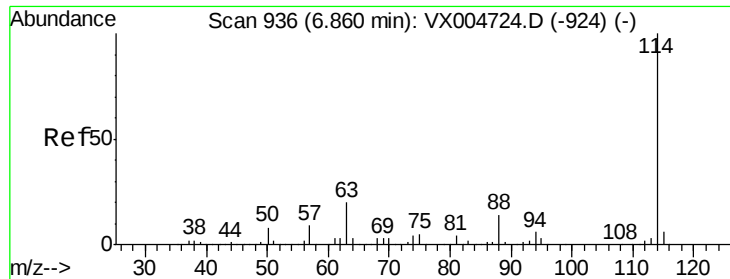
Tgt Ion: 65 Resp: 136713

Ion Ratio Lower Upper

65 100

67 52.6 0.0 107.4

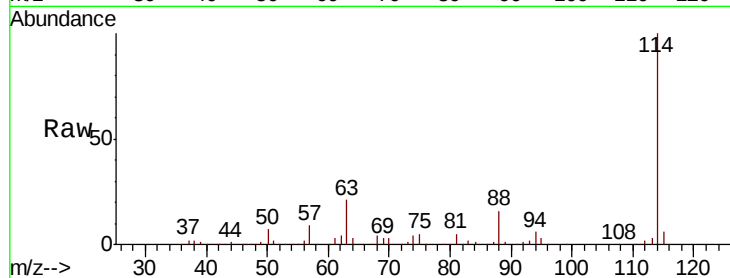




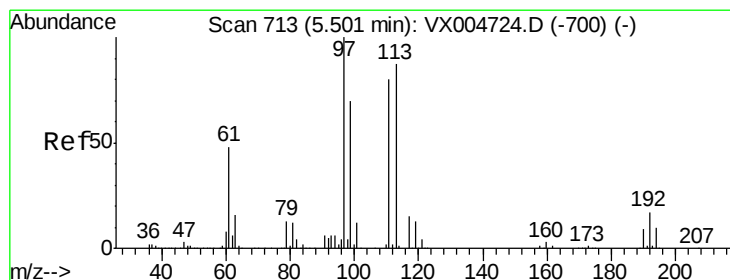
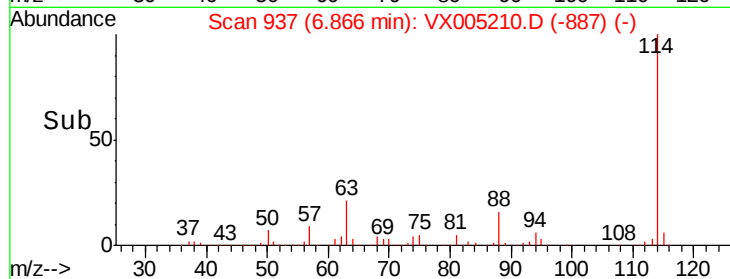
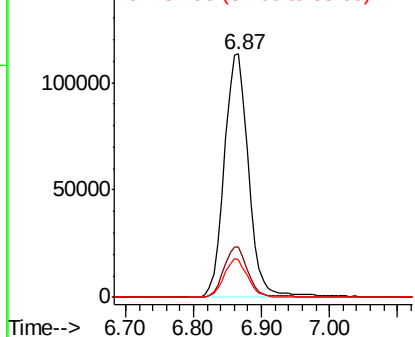
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.87 min Scan# 937
 Delta R.T. 0.01 min
 Lab File: VX005210.D
 Acq: 10 Oct 2018 16:53

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-TT-TB03-20181004

Tot Ion:114 Resp: 281364
 Ion Ratio Lower Upper
 114 100
 63 20.9 0.0 39.8
 88 15.5 0.0 27.0

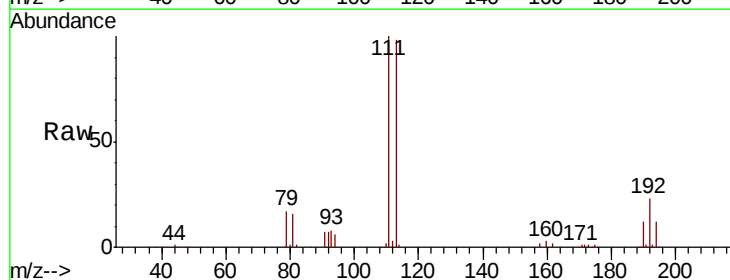


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

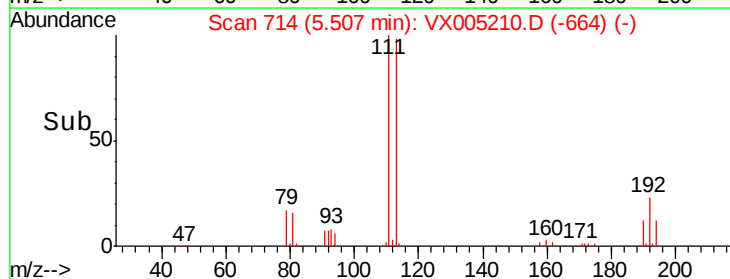
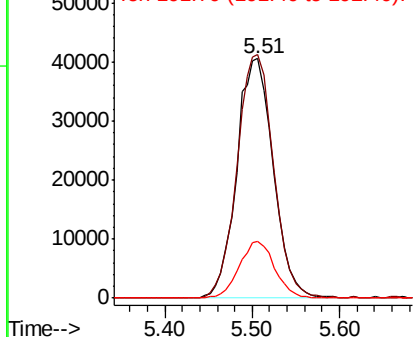


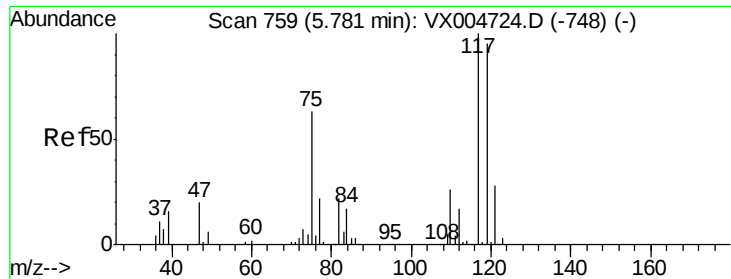
#35
 Dibromofluoromethane
 Concen: 49.282 ug/l
 RT: 5.51 min Scan# 714
 Delta R.T. 0.01 min
 Lab File: VX005210.D
 Acq: 10 Oct 2018 16:53

Tgt Ion:113 Resp: 117517
 Ion Ratio Lower Upper
 113 100
 111 101.6 77.0 115.4
 192 23.0 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

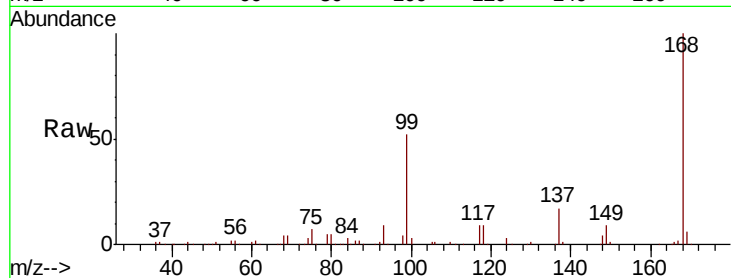




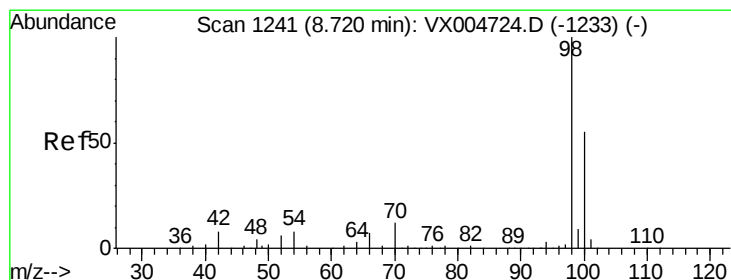
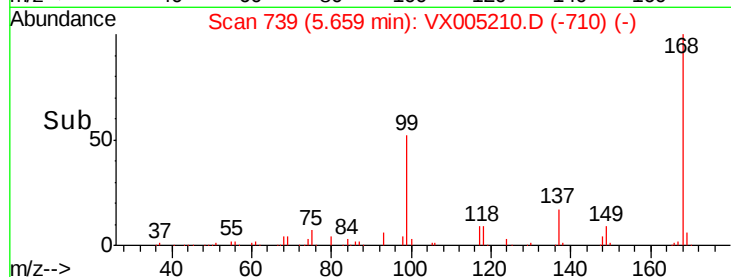
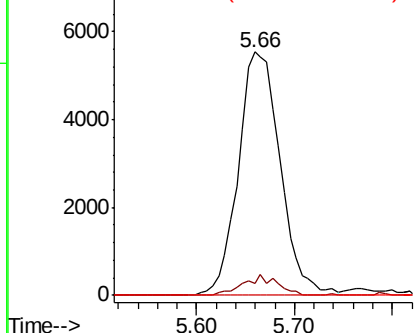
#38
Carbon Tetrachloride
Concen: 4.804 ug/l
RT: 5.66 min Scan# 739
Delta R.T. -0.12 min
Lab File: VX005210.D
Acq: 10 Oct 2018 16:53

Instrument :
MSVOA_X
ClientSampleId :
BP-TT-TB03-20181004

Tot Ion:117 Resp: 16428
Ion Ratio Lower Upper
117 100
119 4.9 75.2 112.8#
121 0.0 22.5 33.7#

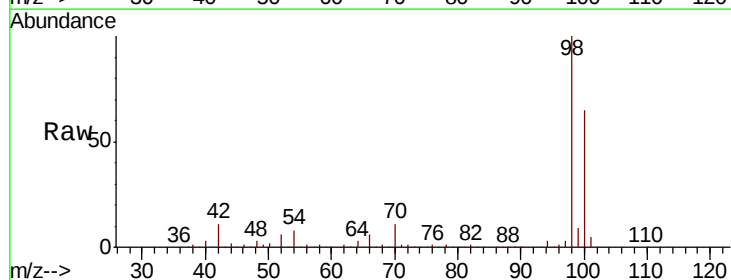


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

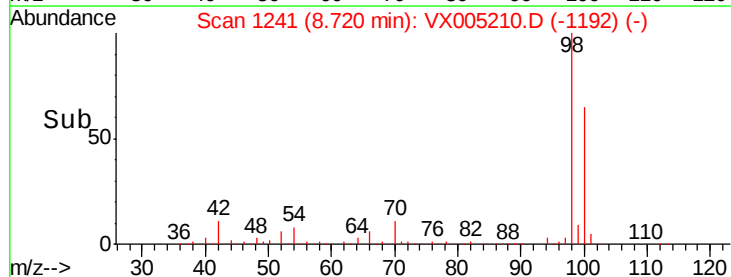
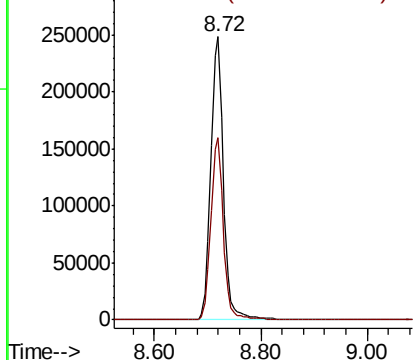


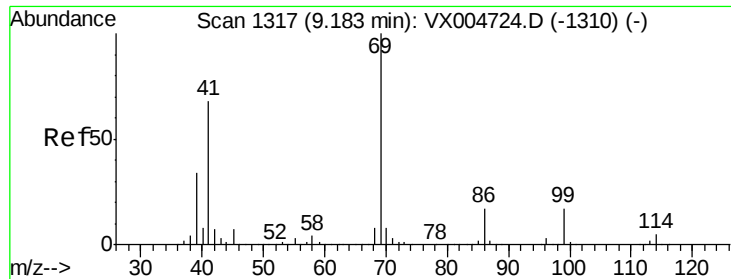
#50
Toluene-d8
Concen: 51.235 ug/l
RT: 8.72 min Scan# 1241
Delta R.T. -0.00 min
Lab File: VX005210.D
Acq: 10 Oct 2018 16:53

Tgt Ion: 98 Resp: 406172
Ion Ratio Lower Upper
98 100
100 63.8 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): V





#56

Ethyl methacrylate

Concen: 2.868 ug/l

RT: 9.30 min Scan# 1336

Delta R.T. 0.12 min

Lab File: VX005210.D

Acq: 10 Oct 2018 16:53

Instrument :

MSVOA_X

ClientSampleId :

BP-TT-TB03-20181004

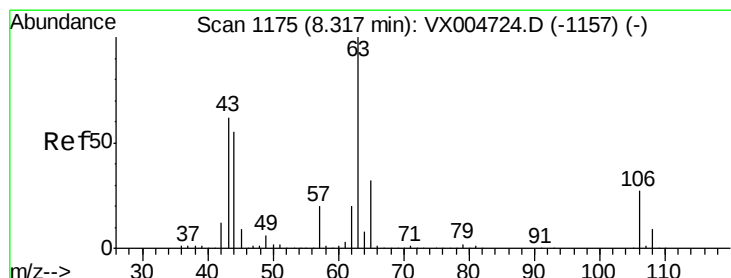
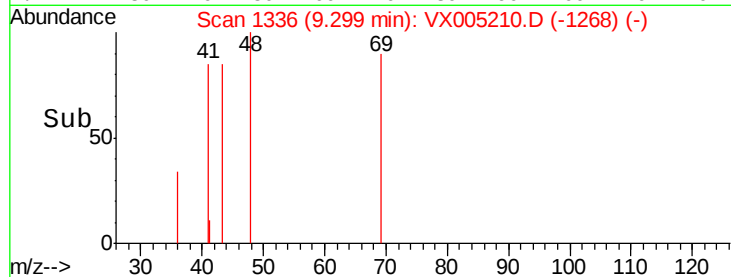
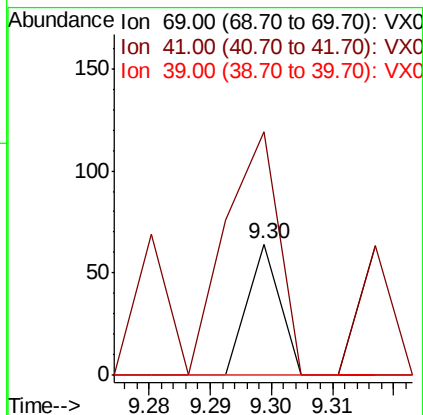
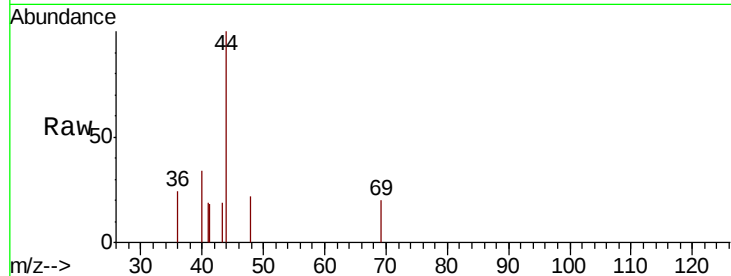
Tot Ion: 69 Resp: 23

Ion Ratio Lower Upper

69 100

41 421.7 56.9 85.3#

39 0.0 28.4 42.6#



#58

2-Chloroethyl Vinyl ether

Concen: 14.251 ug/l

RT: 8.32 min Scan# 1175

Delta R.T. -0.00 min

Lab File: VX005210.D

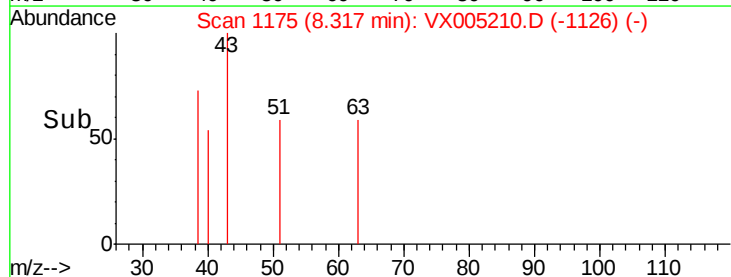
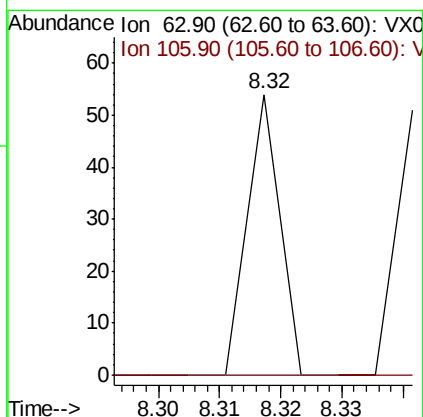
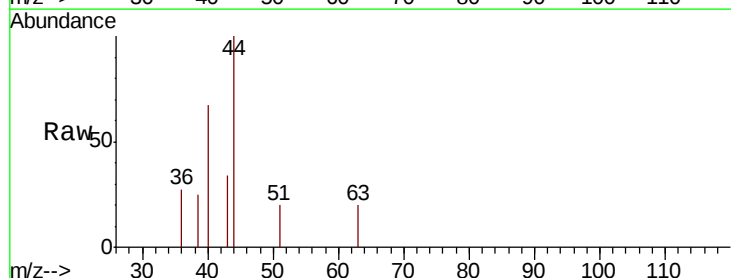
Acq: 10 Oct 2018 16:53

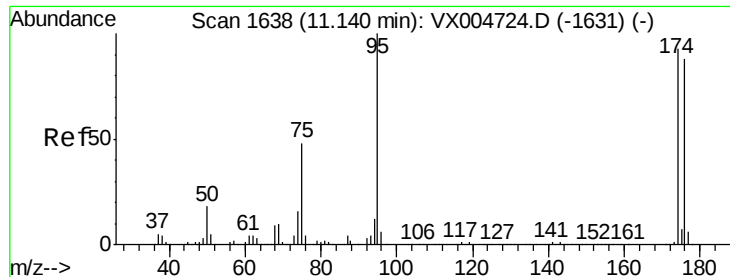
Tgt Ion: 63 Resp: 20

Ion Ratio Lower Upper

63 100

106 0.0 21.0 31.6#





#62

4-Bromofluorobenzene

Concen: 50.254 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX005210.D

Acq: 10 Oct 2018 16:53

Instrument :

MSVOA_X

ClientSampleId :

BP-TT-TB03-20181004

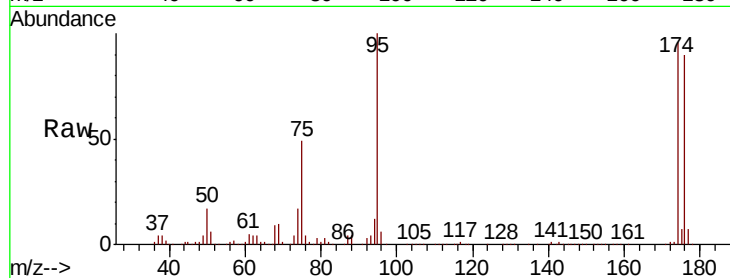
Tot Ion: 95 Resp: 143523

Ion Ratio Lower Upper

95 100

174 93.9 0.0 185.0

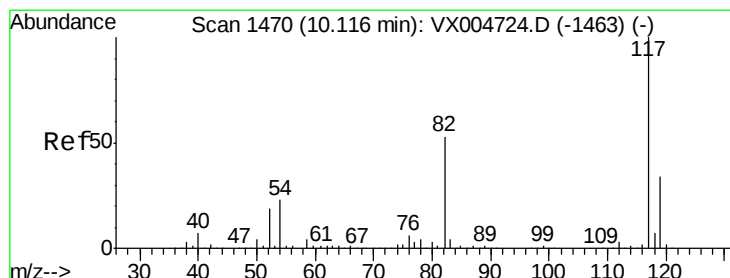
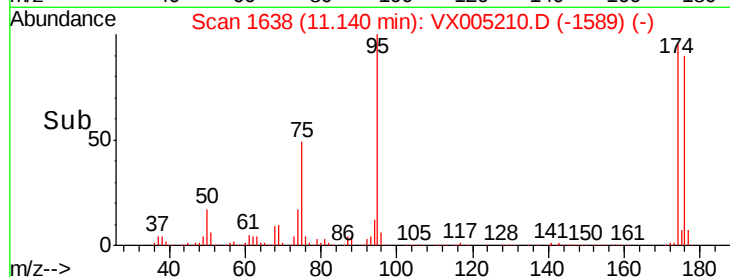
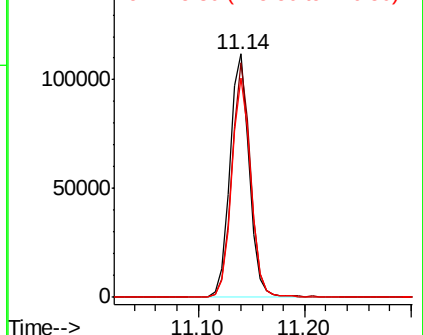
176 89.6 0.0 180.2



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: VX005210.D

Acq: 10 Oct 2018 16:53

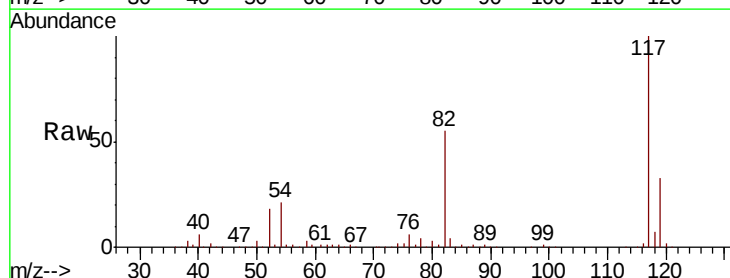
Tgt Ion: 117 Resp: 274799

Ion Ratio Lower Upper

117 100

82 54.7 42.2 63.4

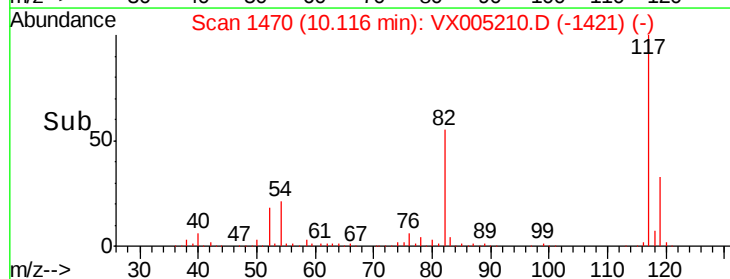
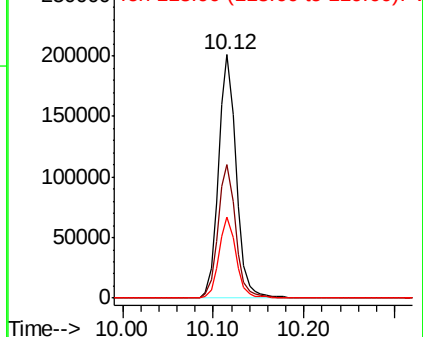
119 33.3 27.4 41.0

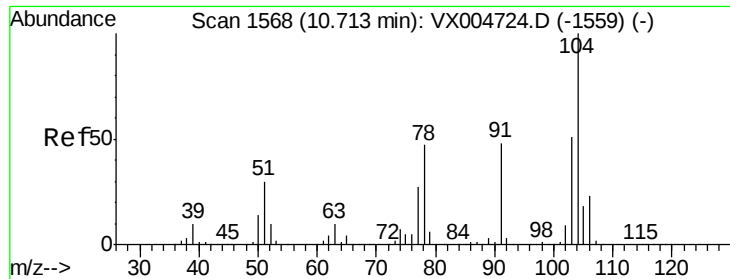


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V

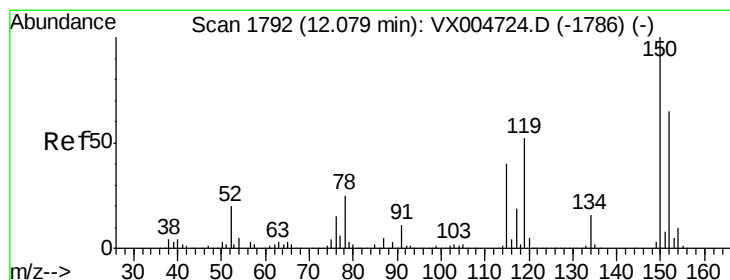
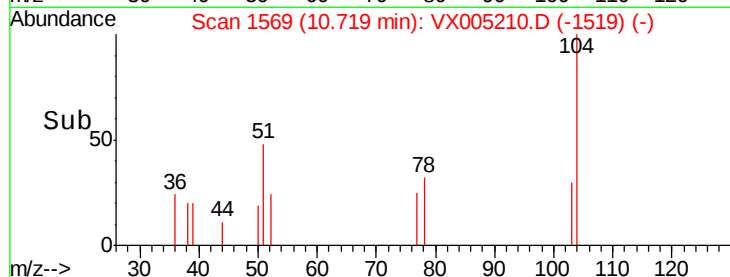
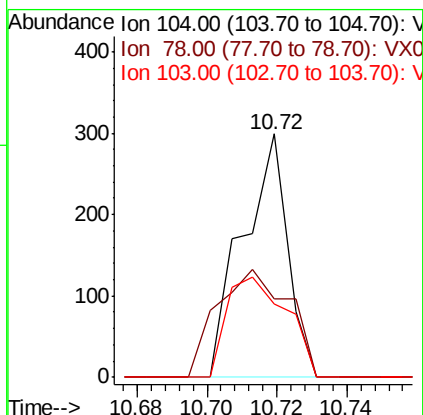
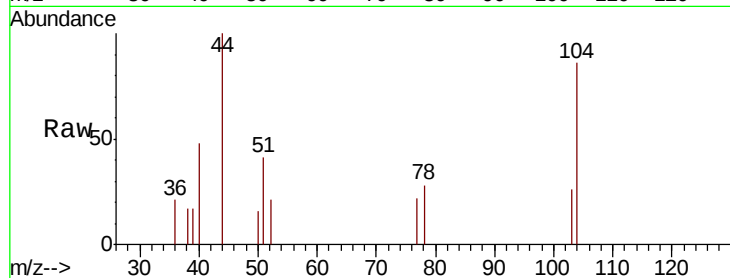




#70
Stvrene
Concen: 2.174 ug/l
RT: 10.72 min Scan# 1569
Delta R.T. 0.01 min
Lab File: VX005210.D
Acq: 10 Oct 2018 16:53

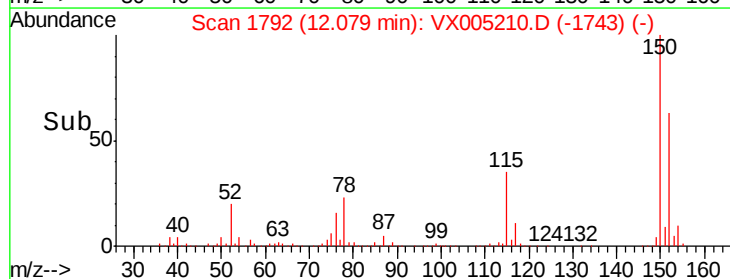
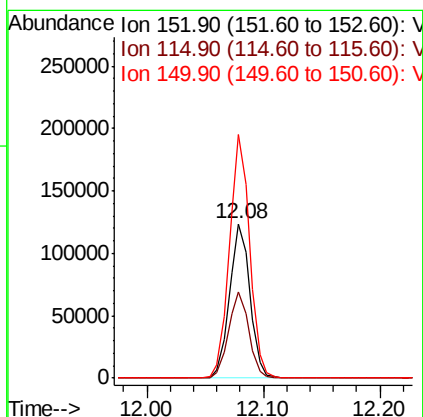
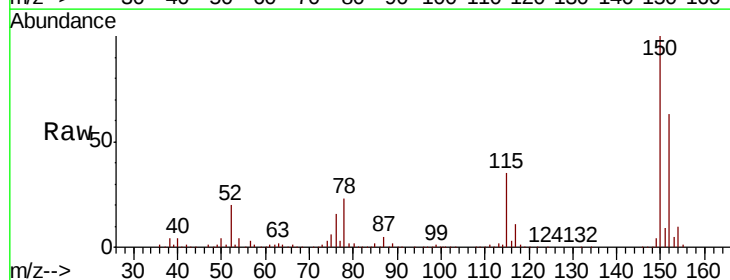
Instrument :
MSVOA_X
ClientSampleId :
BP-TT-TB03-20181004

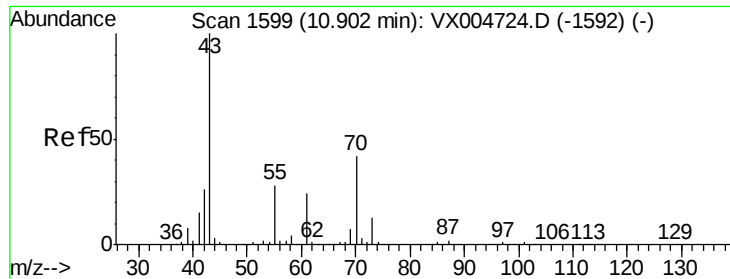
Tot Ion:104 Resp: 266
Ion Ratio Lower Upper
104 100
78 70.7 40.0 60.0#
103 55.3 44.3 66.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX005210.D
Acq: 10 Oct 2018 16:53

Tgt Ion:152 Resp: 150690
Ion Ratio Lower Upper
152 100
115 55.5 40.2 120.6
150 156.5 0.0 351.0





#74

N-amvl acetate

Concen: 1.782 ug/l

RT: 10.90 min Scan# 1599

Delta R.T. -0.00 min

Lab File: VX005210.D

Acq: 10 Oct 2018 16:53

Instrument :

MSVOA_X

ClientSampleId :

BP-TT-TB03-20181004

Tot Ion: 43 Resp: 187

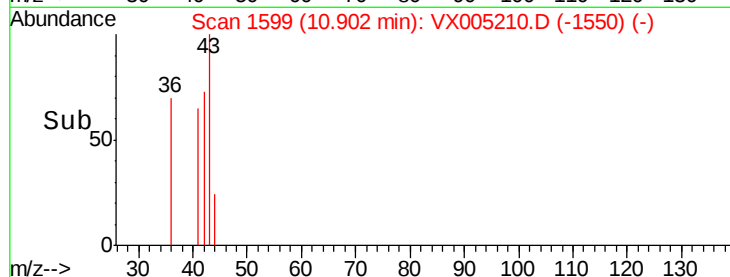
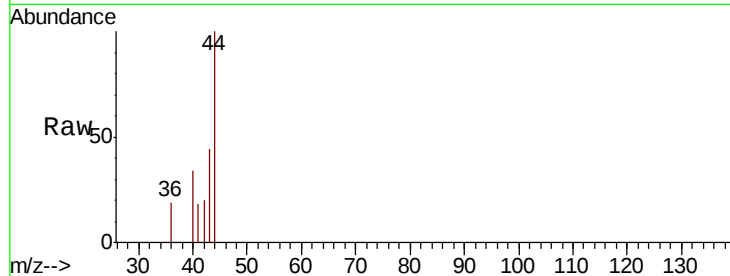
Ion Ratio Lower Upper

43 100

70 0.0 32.6 48.8#

55 0.0 21.6 32.4#

61 0.0 19.1 28.7#

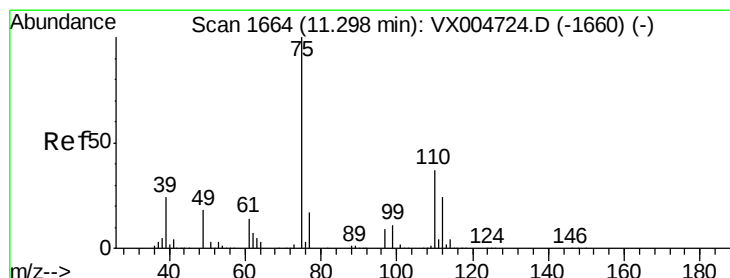
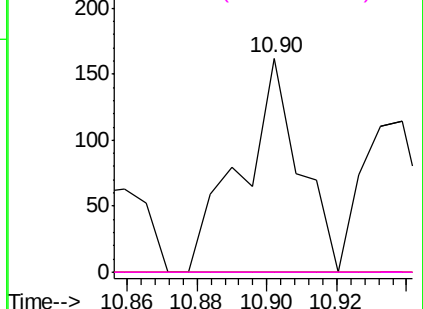


Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 20.880 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005210.D

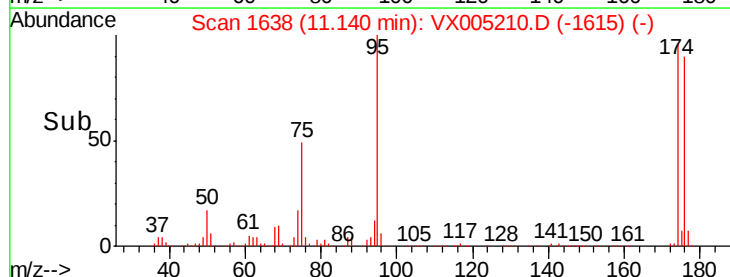
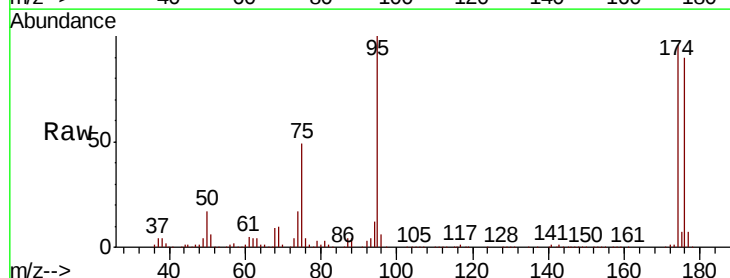
Acq: 10 Oct 2018 16:53

Tgt Ion: 75 Resp: 70524

Ion Ratio Lower Upper

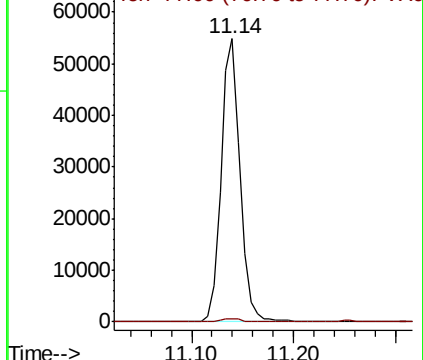
75 100

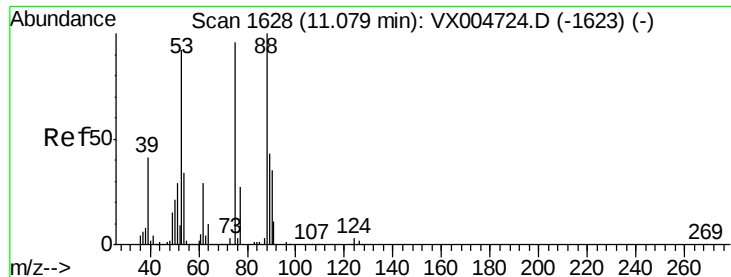
77 1.4 21.4 64.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

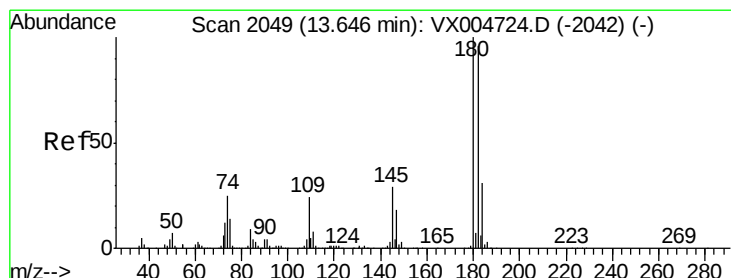
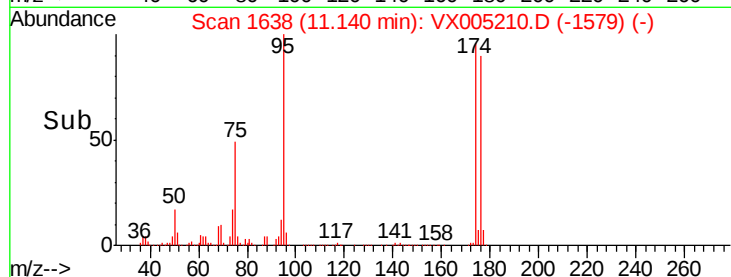
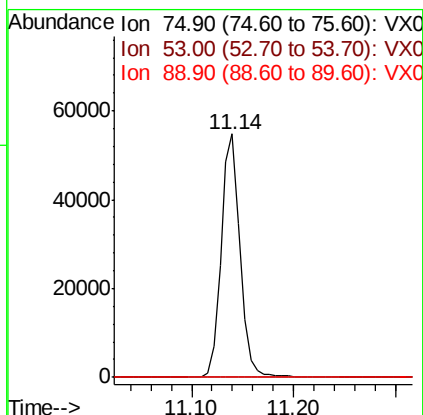
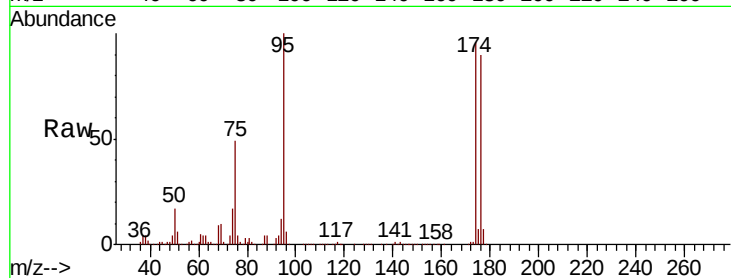




#81
trans-1,4-Dichloro-2-butene
Concen: 56.673 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. 0.06 min
Lab File: VX005210.D
Acq: 10 Oct 2018 16:53

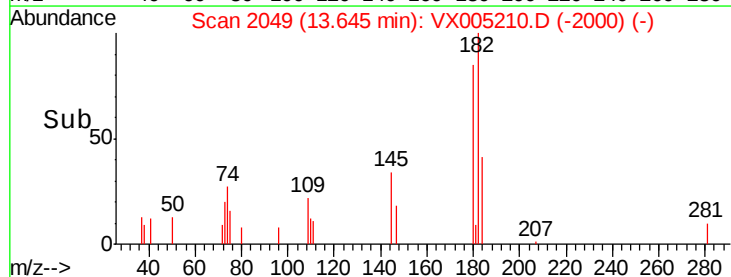
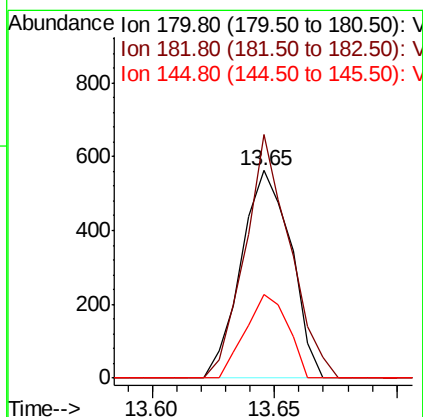
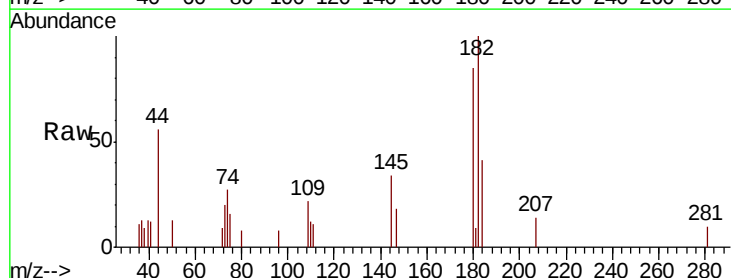
Instrument :
MSVOA_X
ClientSampleId :
BP-TT-TB03-20181004

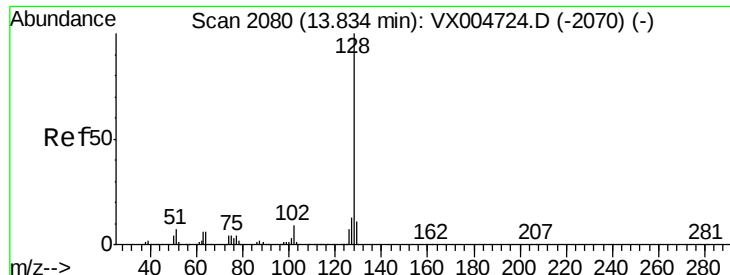
Tot Ion: 75 Resp: 70524
Ion Ratio Lower Upper
75 100
53 0.3 80.2 120.4#
89 0.0 37.1 55.7#



#93
1,2,4-Trichlorobenzene
Concen: 0.212 ug/l
RT: 13.65 min Scan# 2049
Delta R.T. -0.00 min
Lab File: VX005210.D
Acq: 10 Oct 2018 16:53

Tgt Ion:180 Resp: 799
Ion Ratio Lower Upper
180 100
182 105.8 47.8 143.4
145 34.4 14.1 42.4





#95

Naphthalene

Concen: 0.854 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX005210.D

Acq: 10 Oct 2018 16:53

Instrument :

MSVOA_X

ClientSampleId :

BP-TT-TB03-20181004

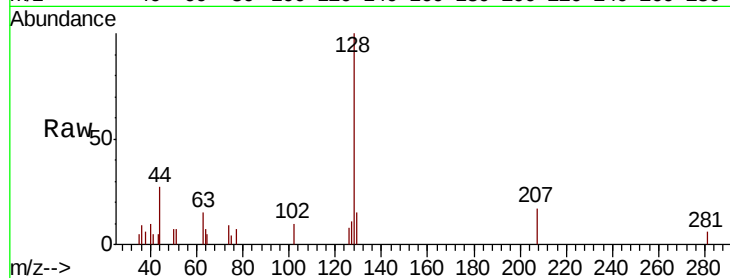
Tot Ion:128 Resp: 1705

Ion Ratio Lower Upper

128 100

127 13.5 10.4 15.6

129 11.8 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

