

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX113018\
 Data File : VX006229.D
 Acq On : 30 Nov 2018 14:43
 Operator : JC/MD
 Sample : J5762-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BU-02-112918

Quant Time: Nov 30 22:18:44 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112918W.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 30 03:55:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	919034	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	1371813	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	1254099	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	632200	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	446079	47.55	ug/l	0.00
Spiked Amount			Recovery	=	95.10%	
35) Dibromofluoromethane	5.50	113	439684	49.50	ug/l	0.00
Spiked Amount			Recovery	=	99.00%	
50) Toluene-d8	8.71	98	1601755	49.58	ug/l	0.00
Spiked Amount			Recovery	=	99.16%	
62) 4-Bromofluorobenzene	11.13	95	601330	49.39	ug/l	0.00
Spiked Amount			Recovery	=	98.78%	

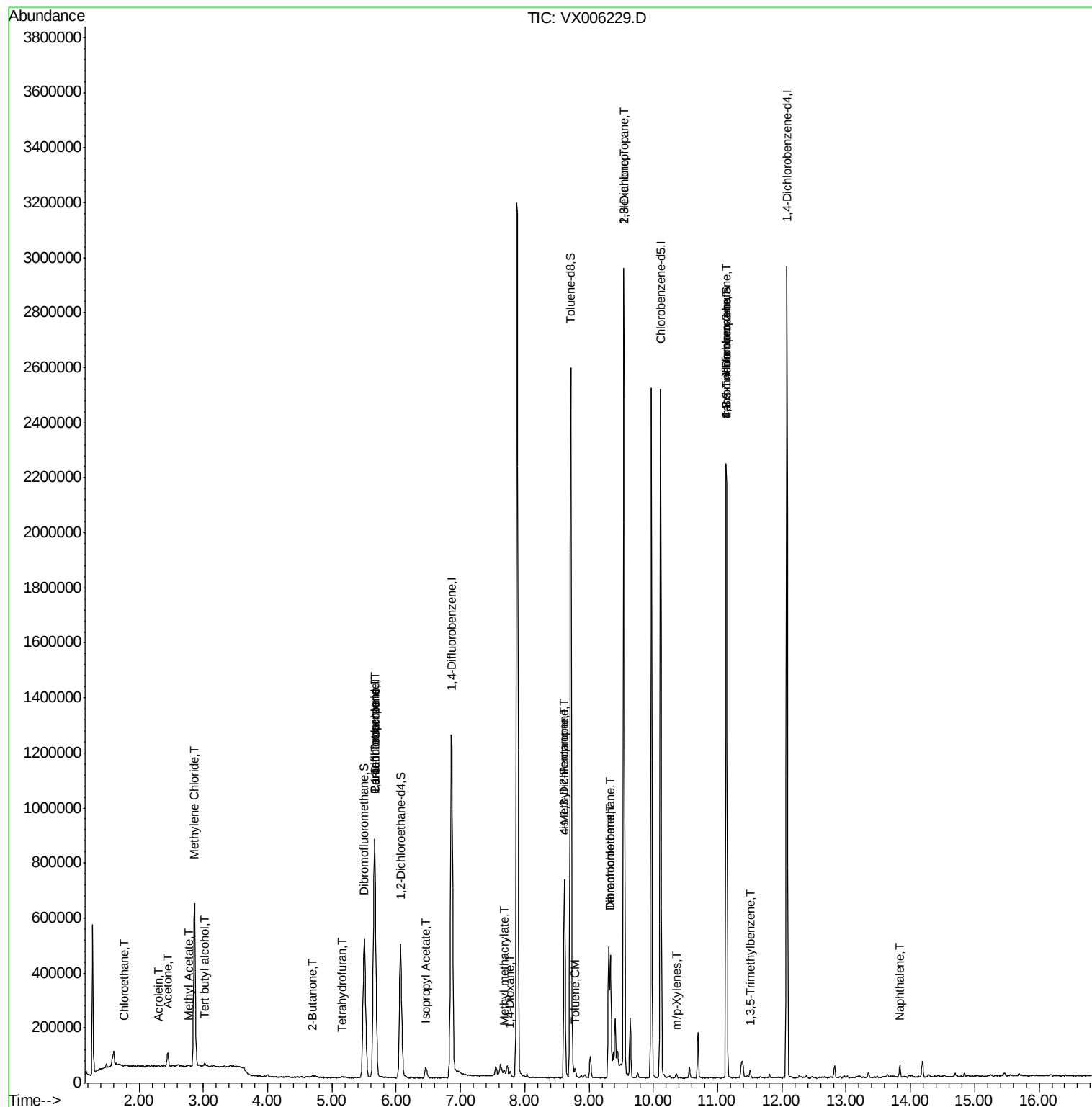
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.78	64	1800	0.295	ug/l #	67
11) Tert butyl alcohol	3.01	59	6527	2.544	ug/l #	89
13) Acrolein	2.31	56	954	0.680	ug/l	99
16) Acetone	2.45	43	52517	11.928	ug/l	97
18) Methyl Acetate	2.78	43	3931	0.267	ug/l	98
20) Methylene Chloride	2.86	84	271870	29.014	ug/l	99
25) 2-Butanone	4.70	43	12935	2.059	ug/l	94
29) Tetrahydrofuran	5.16	42	2764	0.633	ug/l #	65
36) 1,1-Dichloropropene	5.66	75	55664	4.819	ug/l #	39
38) Carbon Tetrachloride	5.67	117	80084	5.893	ug/l #	15
43) Isopropyl Acetate	6.46	43	50976	2.363	ug/l	97
48) Methyl methacrylate	7.68	41	23195	2.210	ug/l #	13
49) 1,4-Dioxane	7.76	88	109	0.421	ug/l #	27
51) 4-Methyl-2-Pentanone	8.62	43	234519	18.677	ug/l #	49
52) Toluene	8.78	92	7939	0.349	ug/l	97
54) cis-1,3-Dichloropropene	8.62	75	123896	8.295	ug/l #	56
57) 1,3-Dichloropropane	9.54	76	25782	1.763	ug/l #	43
59) 2-Hexanone	9.54	43	320275	33.386	ug/l #	51
60) Dibromochloromethane	9.34	129	74240	6.510	ug/l #	11
64) Tetrachloroethene	9.34	164	82607	8.747	ug/l	97
68) m/p-Xylenes	10.36	106	4088	0.230	ug/l	93
76) 1,2,3-Trichloropropane	11.13	75	275084	22.543	ug/l #	37
80) 1,3,5-Trimethylbenzene	11.51	105	12018	0.331	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.13	75	275084	52.903	ug/l #	15
95) Naphthalene	13.83	128	28262	0.582	ug/l	98

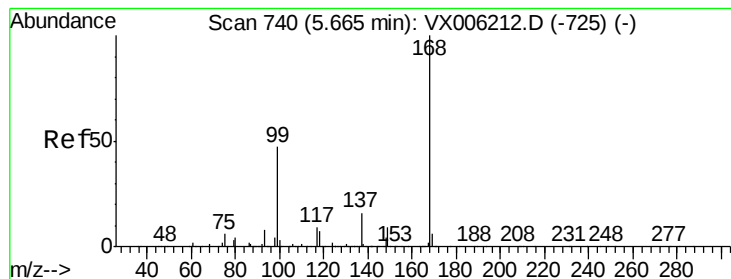
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Nov 30 22:18:44 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X112918W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 30 03:55:33 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX006229.D

Acq: 30 Nov 2018 14:43

Instrument :

MSVOA_X

ClientSampleId :

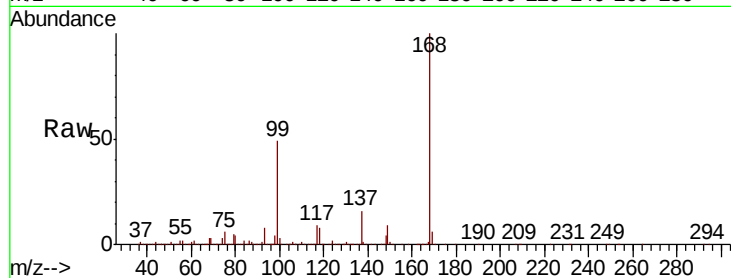
BU-02-112918

Tot Ion:168 Resp: 919034

Ion Ratio Lower Upper

168 100

99 49.4 37.8 56.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

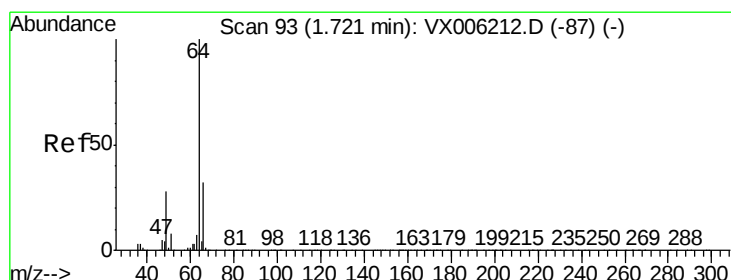
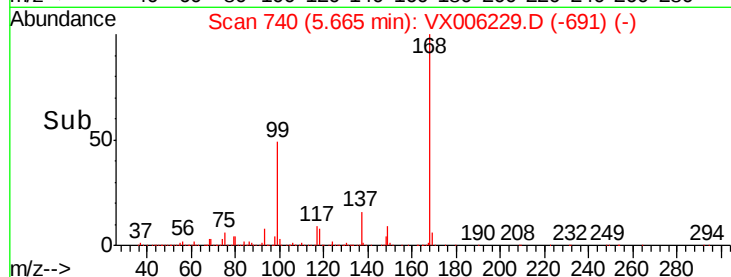
300000

200000

100000

0

Time-->



#6

Chloroethane

Concen: 0.295 ug/l

RT: 1.78 min Scan# 102

Delta R.T. 0.05 min

Lab File: VX006229.D

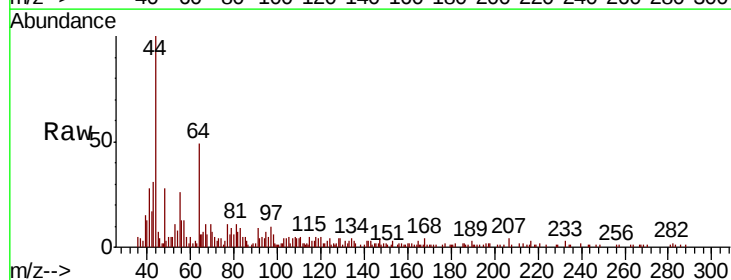
Acq: 30 Nov 2018 14:43

Tgt Ion: 64 Resp: 1800

Ion Ratio Lower Upper

64 100

66 13.7 25.9 38.9#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.78

4000

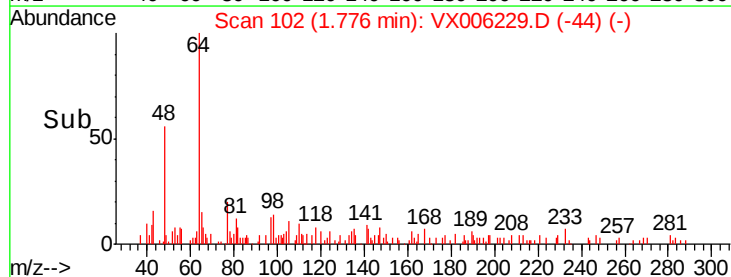
3000

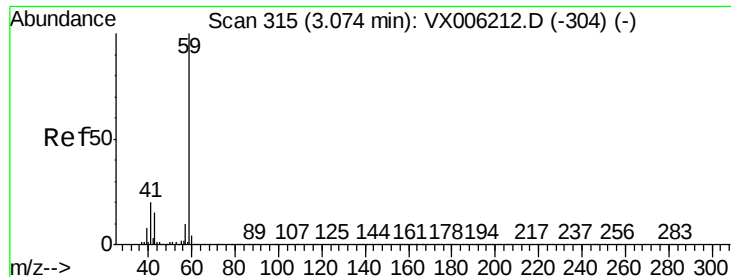
2000

1000

0

Time-->



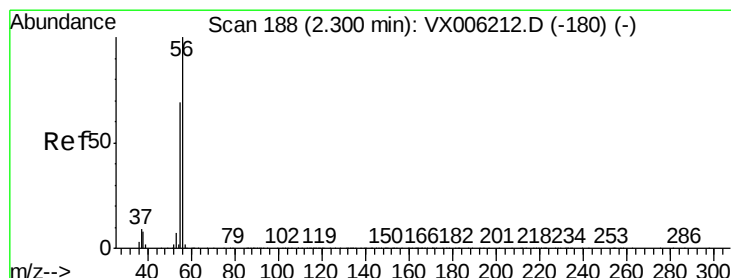
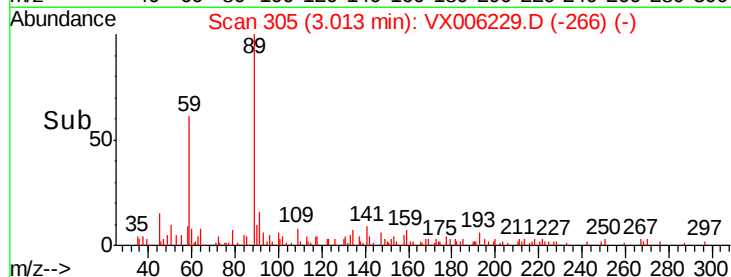
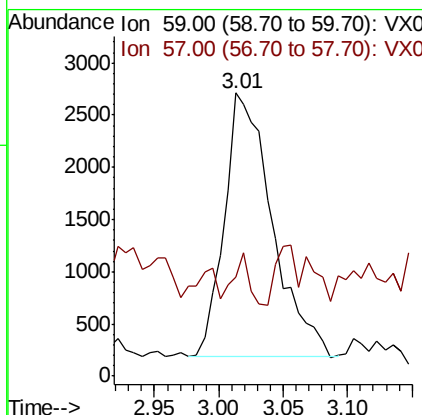
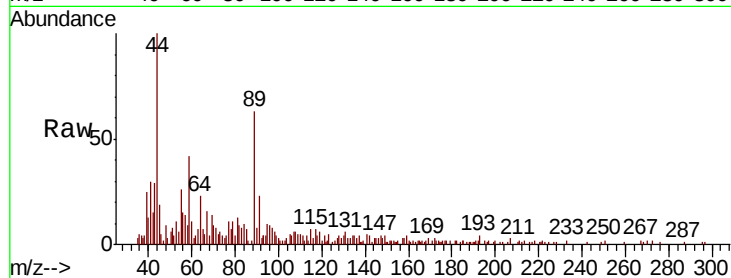


#11

Tert butyl alcohol
Concen: 2.544 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.06 min
Lab File: VX006229.D
Acq: 30 Nov 2018 14:43

Instrument :
MSVOA_X
ClientSampled :
BU-02-112918

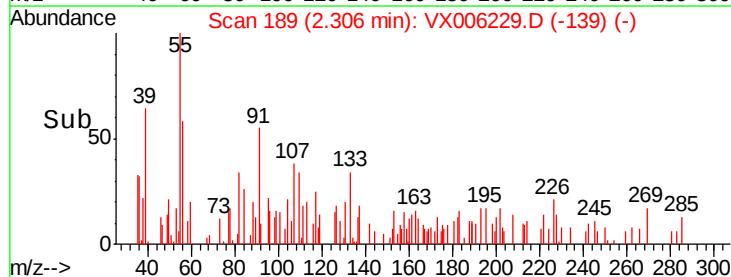
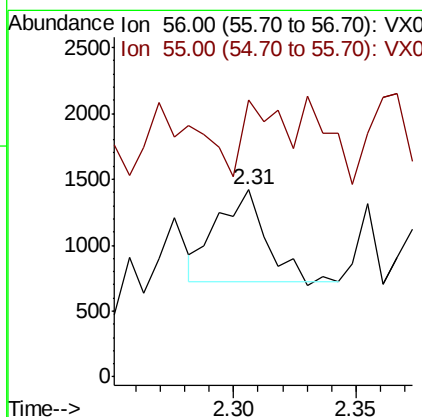
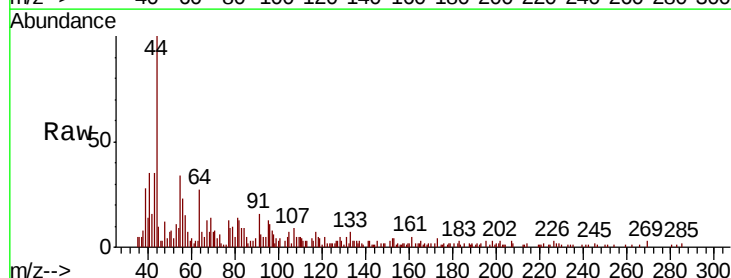
Tot Ion: 59 Resp: 6527
Ion Ratio Lower Upper
59 100
57 6.2 8.2 12.2#

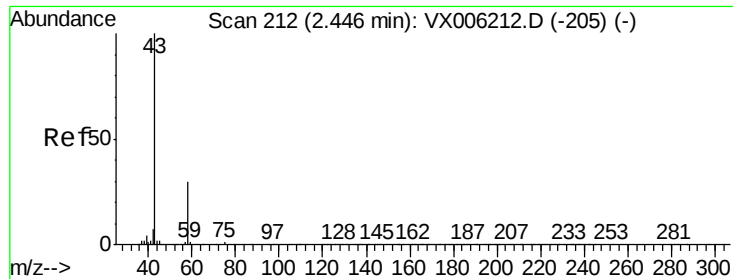


#13

Acrolein
Concen: 0.680 ug/l
RT: 2.31 min Scan# 189
Delta R.T. 0.01 min
Lab File: VX006229.D
Acq: 30 Nov 2018 14:43

Tgt Ion: 56 Resp: 954
Ion Ratio Lower Upper
56 100
55 73.0 57.8 86.6

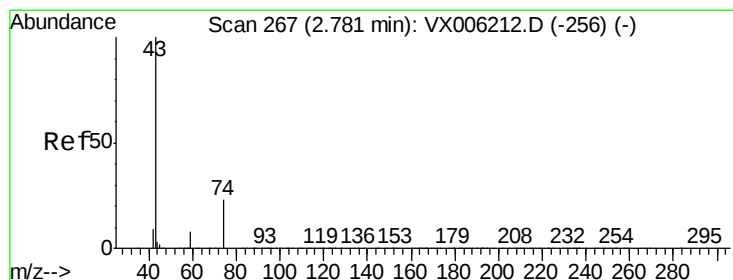
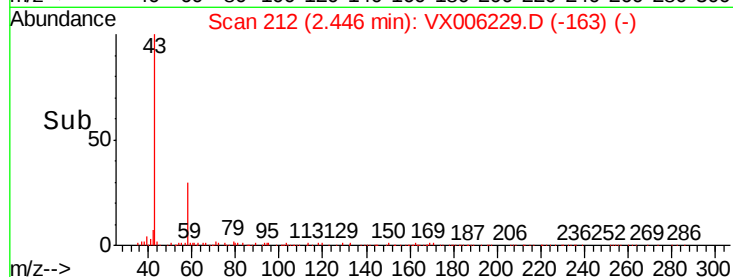
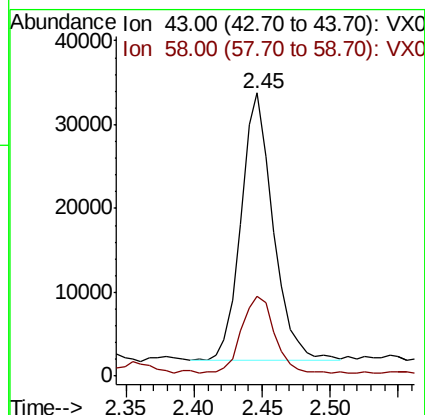
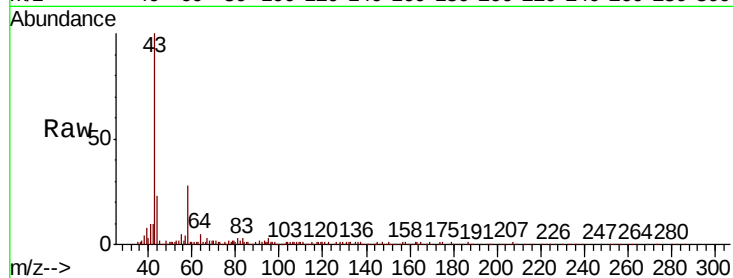




#16
Acetone
Concen: 11.928 ug/l
RT: 2.45 min Scan# 212
Delta R.T. 0.00 min
Lab File: VX006229.D
Acq: 30 Nov 2018 14:43

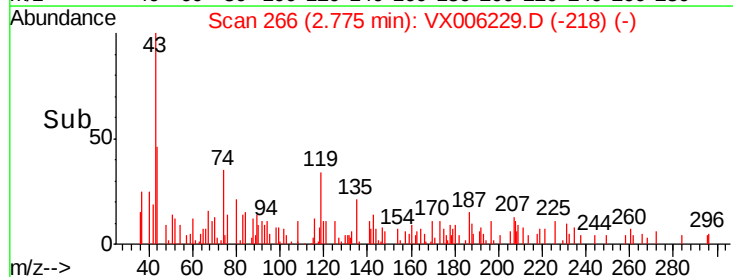
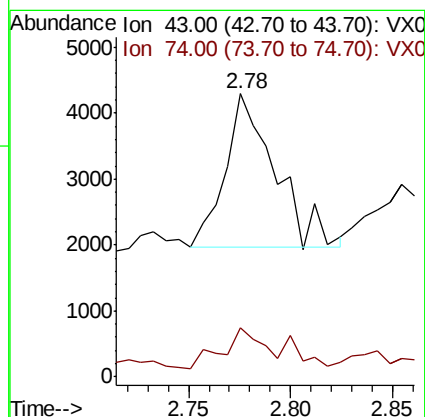
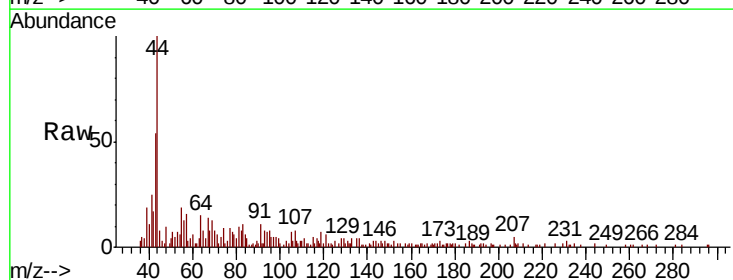
Instrument :
MSVOA_X
ClientSampleId :
BU-02-112918

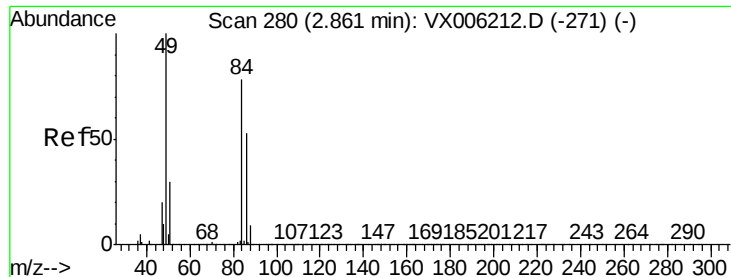
Tot Ion: 43 Resp: 52517
Ion Ratio Lower Upper
43 100
58 28.6 24.0 36.0



#18
Methyl Acetate
Concen: 0.267 ug/l
RT: 2.78 min Scan# 266
Delta R.T. -0.01 min
Lab File: VX006229.D
Acq: 30 Nov 2018 14:43

Tgt Ion: 43 Resp: 3931
Ion Ratio Lower Upper
43 100
74 21.3 17.9 26.9

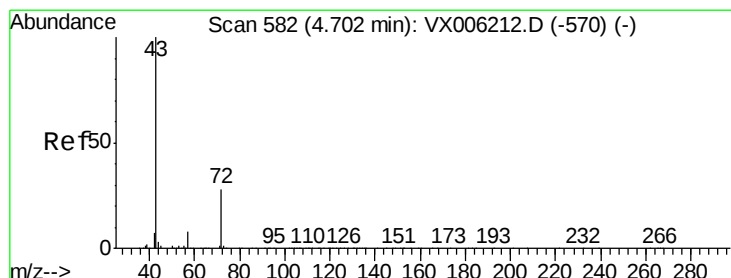
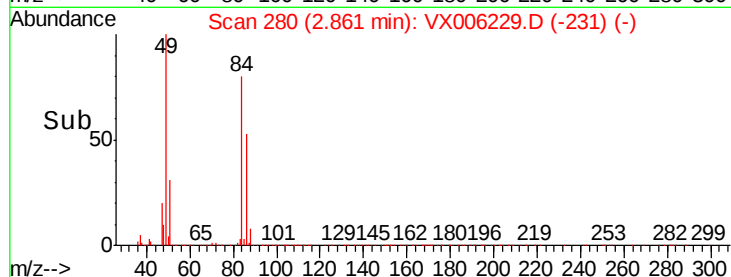
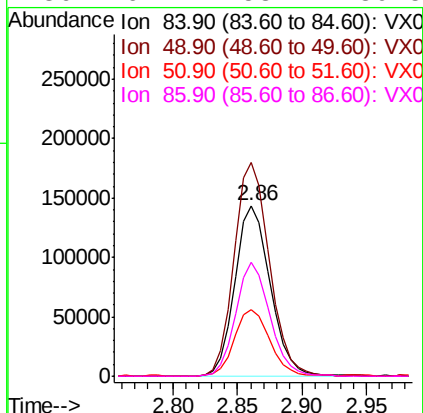
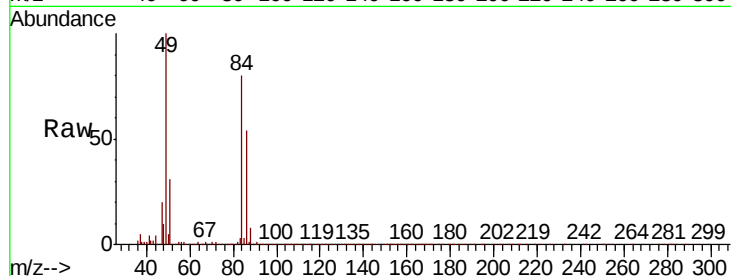




#20
Methvlene Chloride
Concen: 29.014 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX006229.D
Acq: 30 Nov 2018 14:43

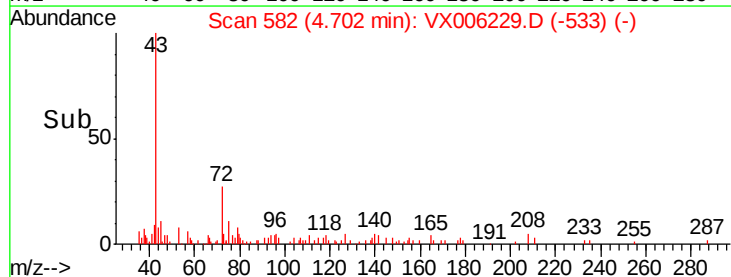
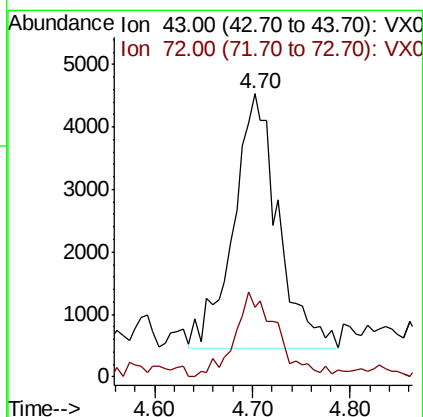
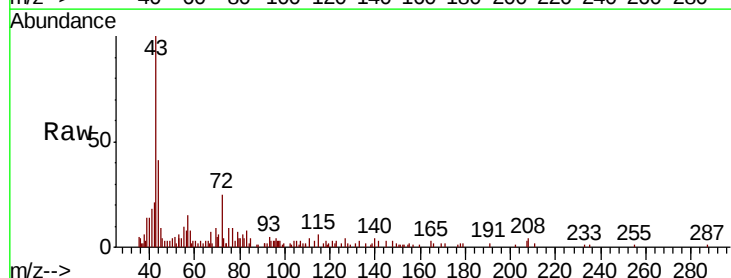
Instrument :
MSVOA_X
ClientSampled :
BU-02-112918

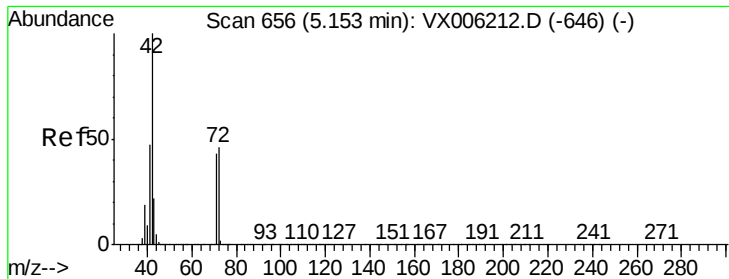
Tot Ion: 84 Resp: 271870
Ion Ratio Lower Upper
84 100
49 125.1 102.2 153.4
51 39.0 31.1 46.7
86 67.2 53.7 80.5



#25
2-Butanone
Concen: 2.059 ug/l
RT: 4.70 min Scan# 582
Delta R.T. 0.00 min
Lab File: VX006229.D
Acq: 30 Nov 2018 14:43

Tgt Ion: 43 Resp: 12935
Ion Ratio Lower Upper
43 100
72 24.9 22.6 33.8

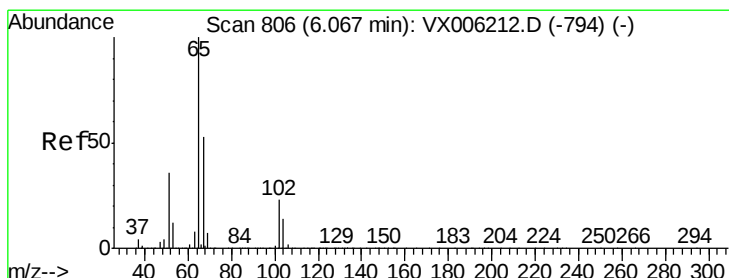
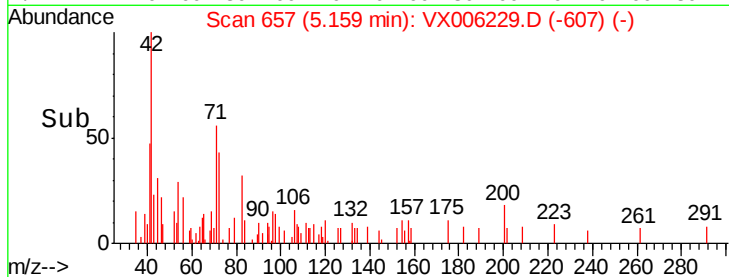
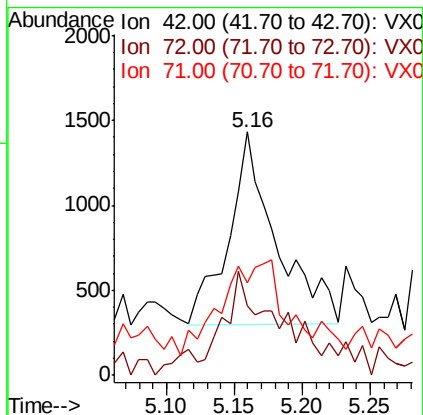
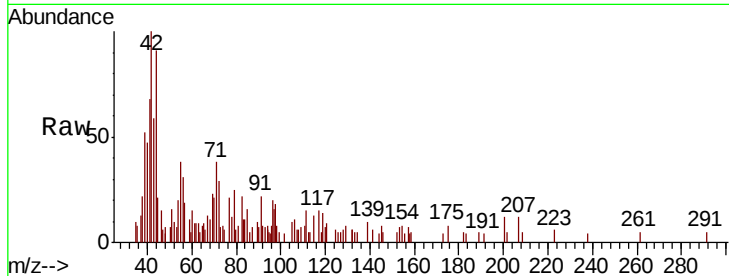




#29
Tetrahydrofuran
Concen: 0.633 ug/l
RT: 5.16 min Scan# 657
Delta R.T. 0.01 min
Lab File: VX006229.D
Acq: 30 Nov 2018 14:43

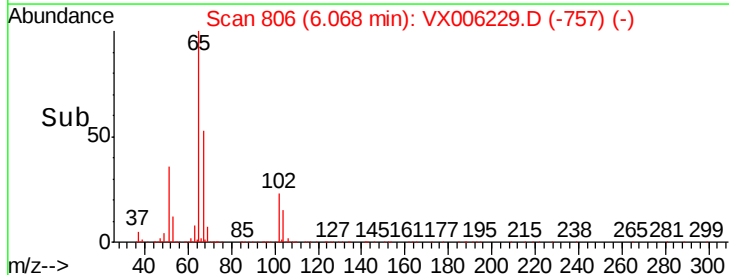
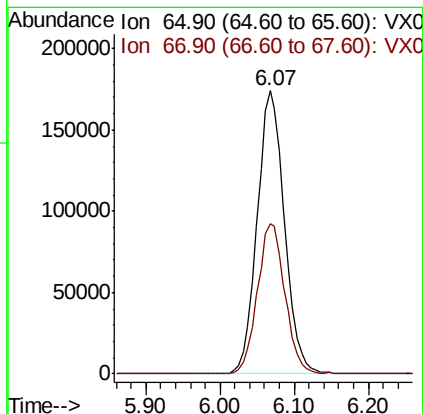
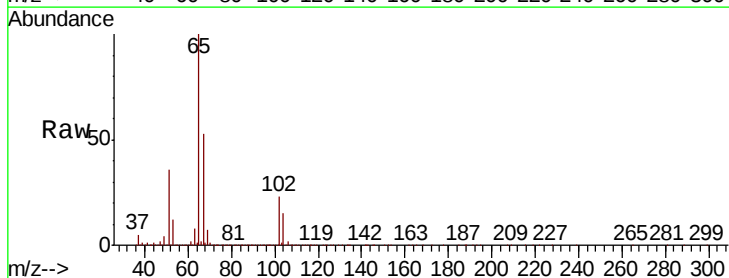
Instrument :
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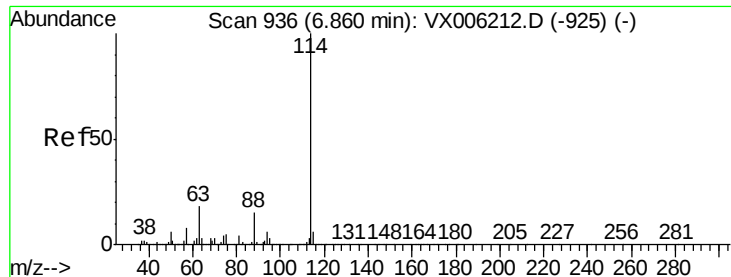
Tot Ion: 42 Resp: 2764
Ion Ratio Lower Upper
42 100
72 44.2 37.8 56.8
71 0.0 35.2 52.8#



#33
1,2-Dichloroethane-d4
Concen: 47.547 ug/l
RT: 6.07 min Scan# 806
Delta R.T. 0.00 min
Lab File: VX006229.D
Acq: 30 Nov 2018 14:43

Tgt Ion: 65 Resp: 446079
Ion Ratio Lower Upper
65 100
67 53.6 0.0 107.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX006229.D

Acq: 30 Nov 2018 14:43

Instrument :

MSVOA_X

ClientSampleId :

BU-02-112918

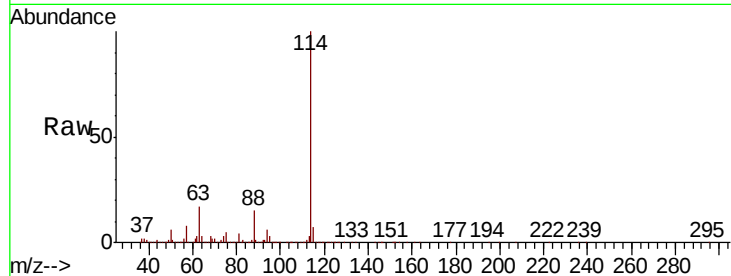
Tot Ion:114 Resp: 1371813

Ion Ratio Lower Upper

114 100

63 17.2 0.0 36.6

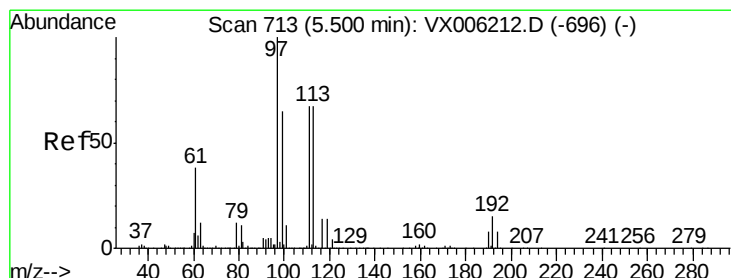
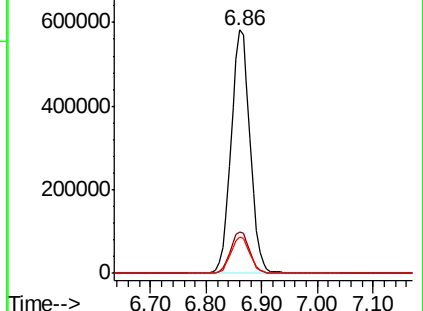
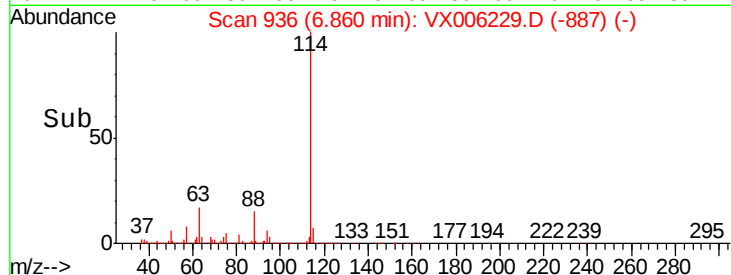
88 15.0 0.0 29.0



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: 49.503 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX006229.D

Acq: 30 Nov 2018 14:43

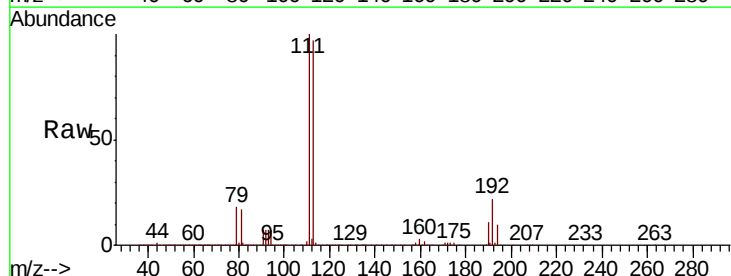
Tgt Ion:113 Resp: 439684

Ion Ratio Lower Upper

113 100

111 99.9 81.1 121.7

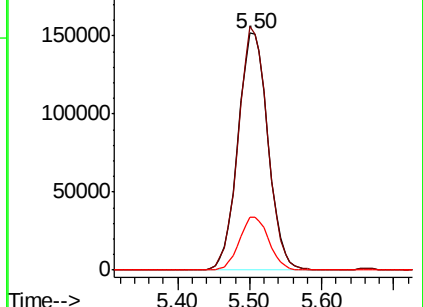
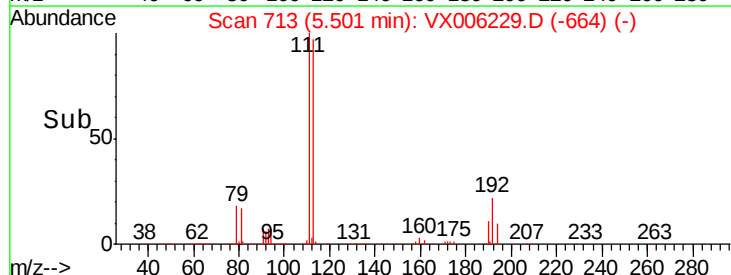
192 22.1 18.2 27.2

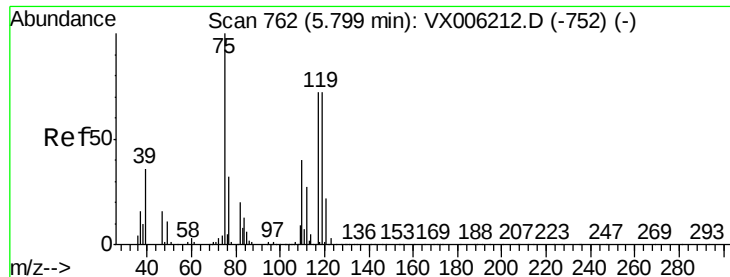


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

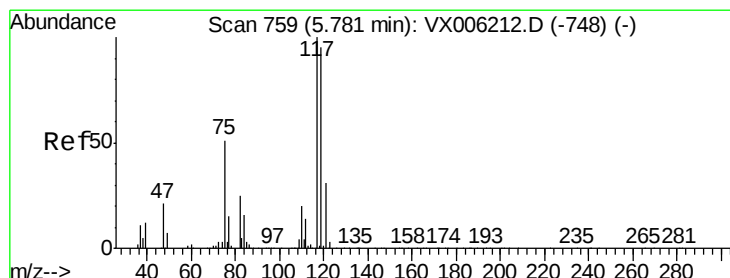
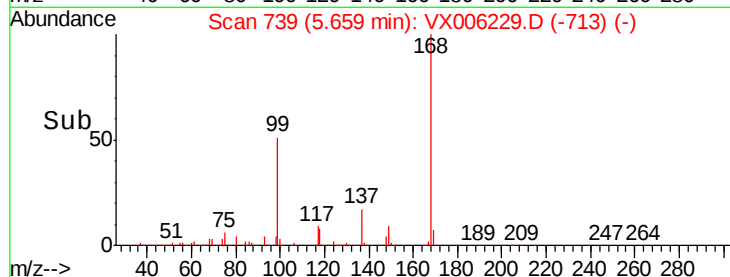
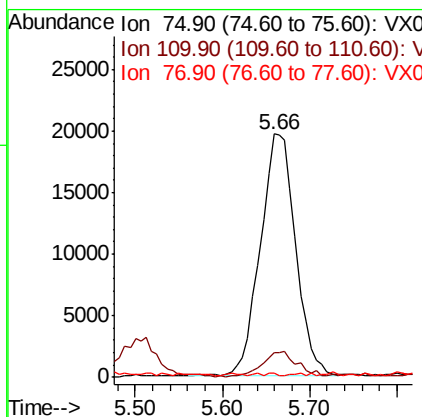
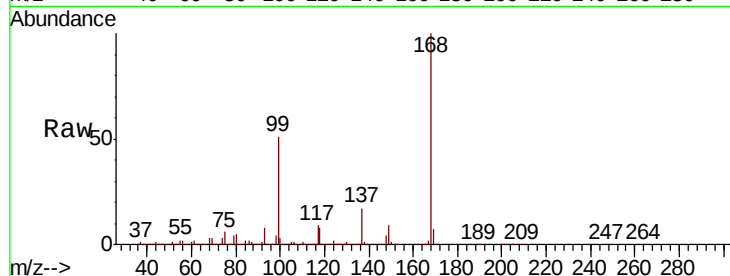




#36
 1,1-Dichloropropene
 Concen: 4.819 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX006229.D
 Acq: 30 Nov 2018 14:43

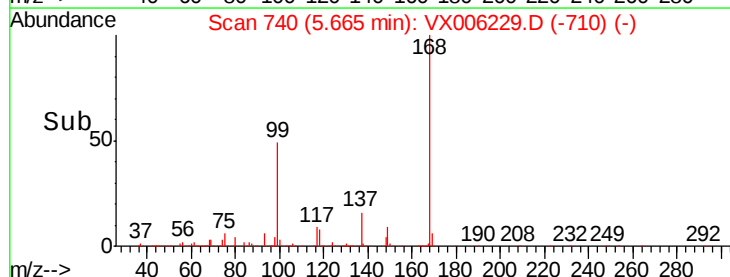
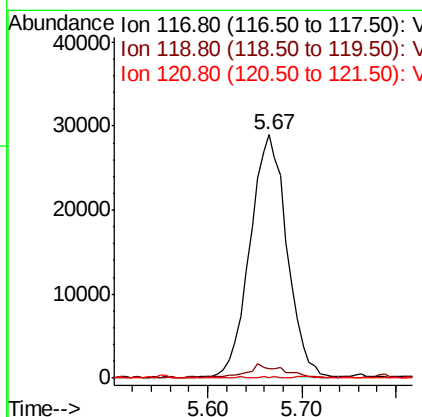
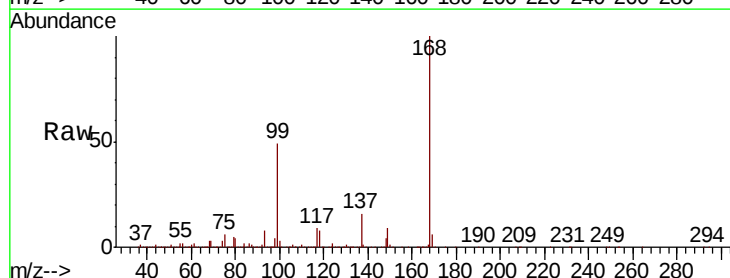
Instrument :
 MSVOA_X
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 BU-02-112918

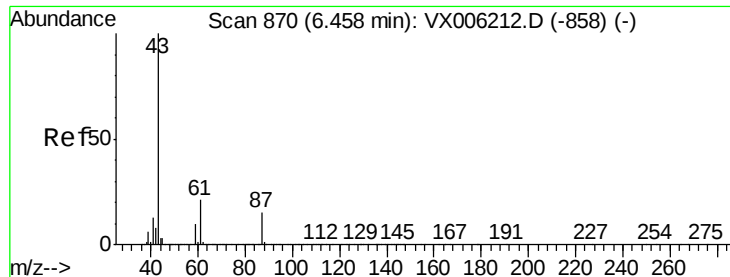
Tot Ion	Ratio	Lower	Upper
75	100		
110	0.0	20.4	61.3#
77	0.4	24.9	37.3#



#38
 Carbon Tetrachloride
 Concen: 5.893 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.12 min
 Lab File: VX006229.D
 Acq: 30 Nov 2018 14:43

Tgt Ion	Ratio	Lower	Upper
117	100		
119	3.7	75.8	113.8#
121	0.0	24.6	37.0#





#43

Isopropyl Acetate

Concen: 2.363 ug/l

RT: 6.46 min Scan# 870

Delta R.T. 0.00 min

Lab File: VX006229.D

Acq: 30 Nov 2018 14:43

Instrument :

MSVOA_X

ClientSampleId :

BU-02-112918

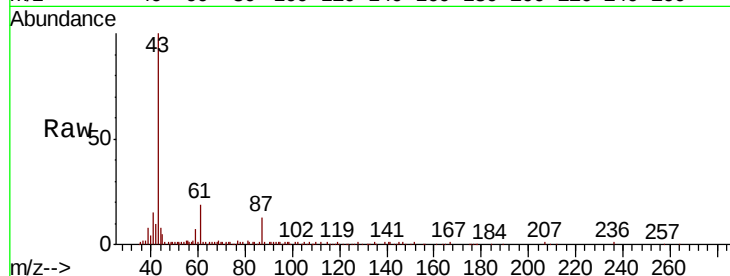
Tot Ion: 43 Resp: 50976

Ion Ratio Lower Upper

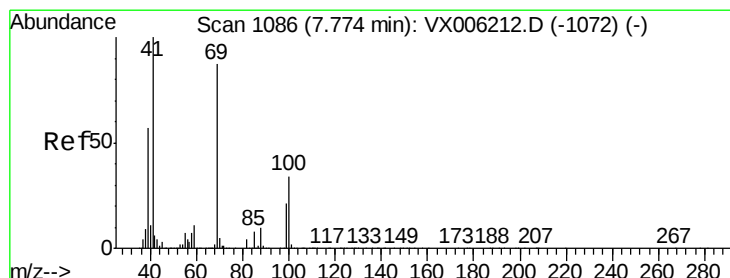
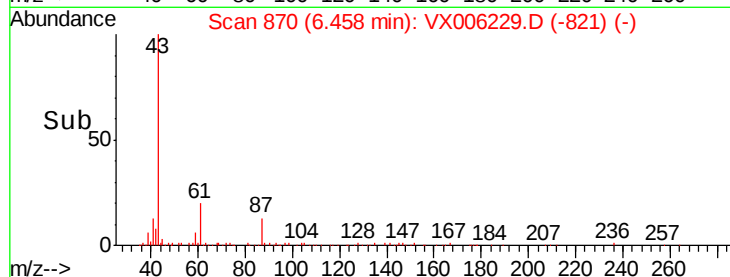
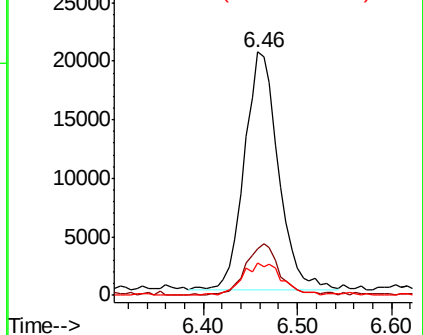
43 100

61 22.1 16.8 25.2

87 16.3 11.9 17.9



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 61.00 (60.70 to 61.70): VX0
Ion 87.00 (86.70 to 87.70): VX0



#48

Methyl methacrylate

Concen: 2.210 ug/l

RT: 7.68 min Scan# 1071

Delta R.T. -0.09 min

Lab File: VX006229.D

Acq: 30 Nov 2018 14:43

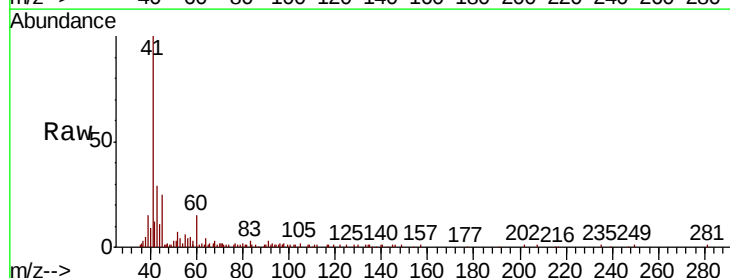
Tgt Ion: 41 Resp: 23195

Ion Ratio Lower Upper

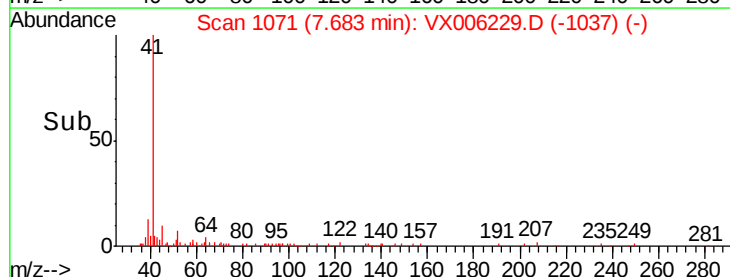
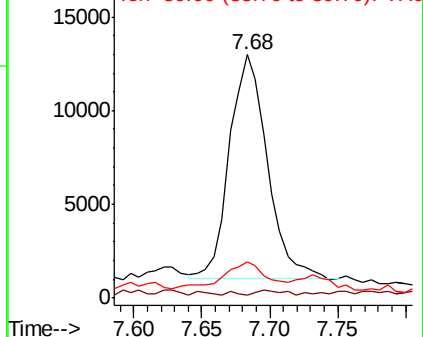
41 100

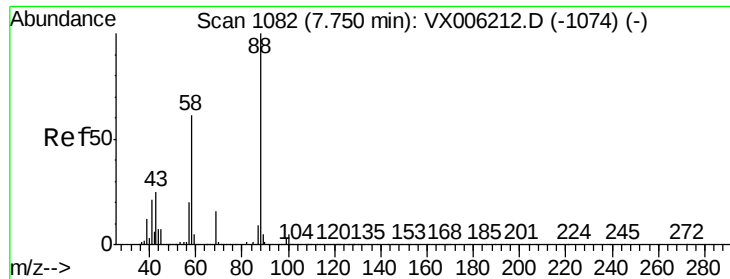
69 1.7 70.3 105.5#

39 0.0 45.3 67.9#



Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 39.00 (38.70 to 39.70): VX0

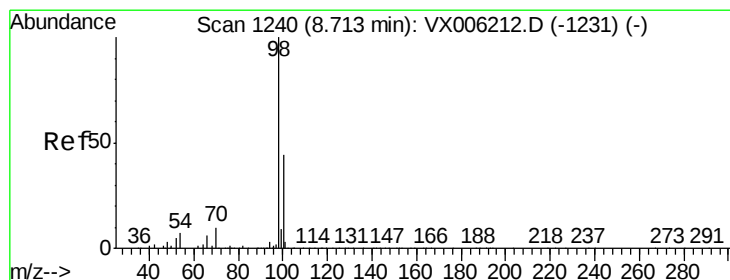
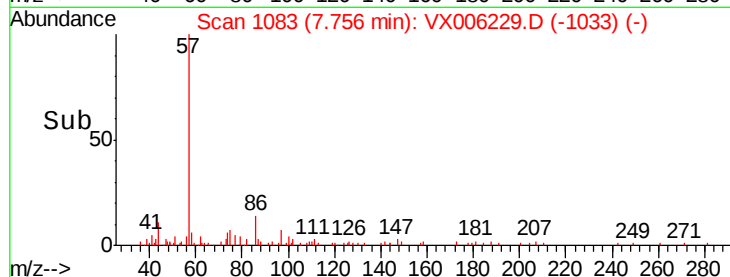
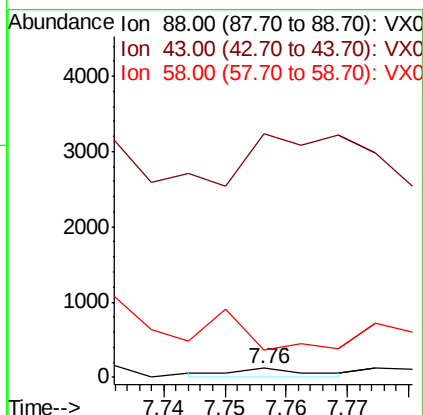
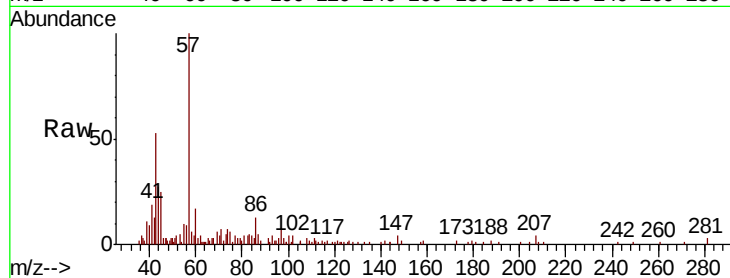




#49
1,4-Dioxane
Concen: 0.421 ug/l
RT: 7.76 min Scan# 1083
Delta R.T. 0.01 min
Lab File: VX006229.D
Acq: 30 Nov 2018 14:43

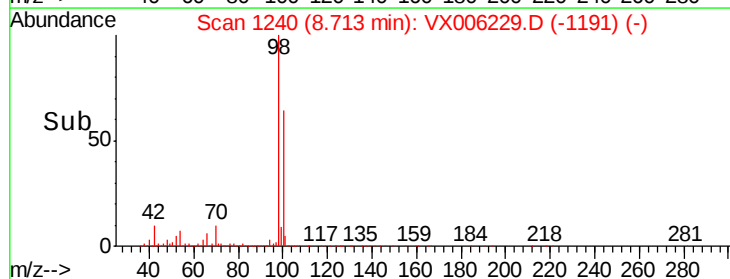
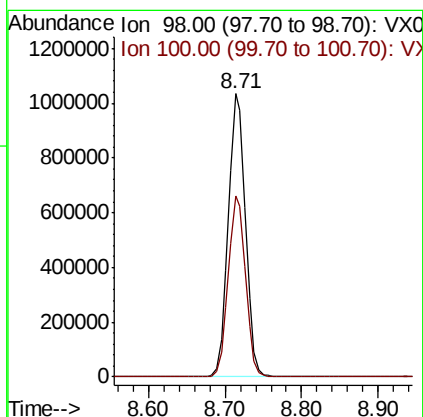
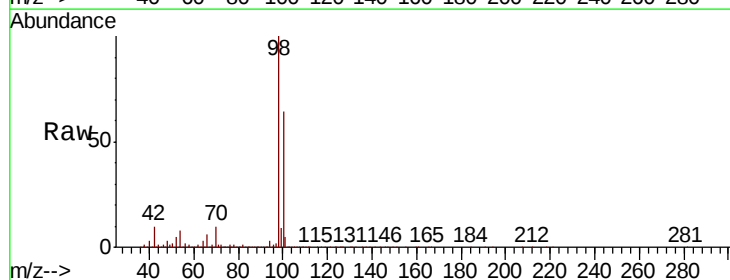
Instrument :
MSVOA_X
ClientSampleId :
BU-02-112918

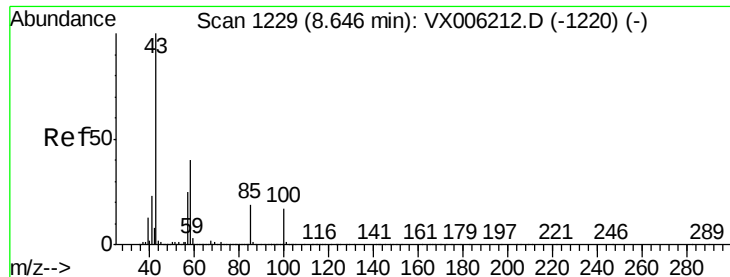
Tot Ion	Ratio	Lower	Upper
88	100		
43	0.0	23.2	34.8#
58	0.0	51.4	77.0#



#50
Toluene-d8
Concen: 49.579 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX006229.D
Acq: 30 Nov 2018 14:43

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.4	52.2	78.2





#51

4-Methyl-2-Pentanone

Concen: 18.677 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.03 min

Lab File: VX006229.D

Acq: 30 Nov 2018 14:43

Instrument :

MSVOA_X

ClientSampleId :

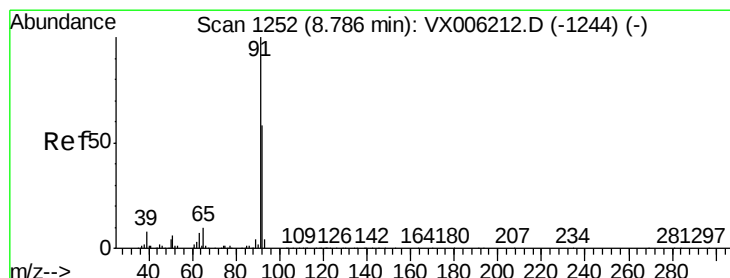
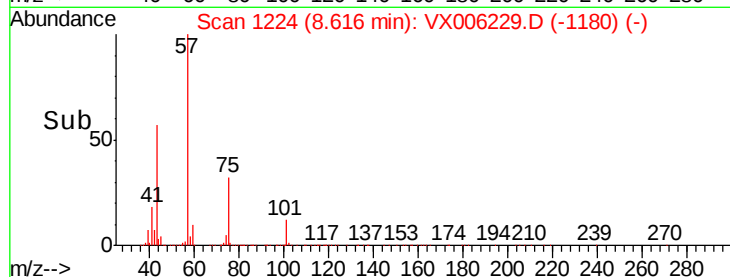
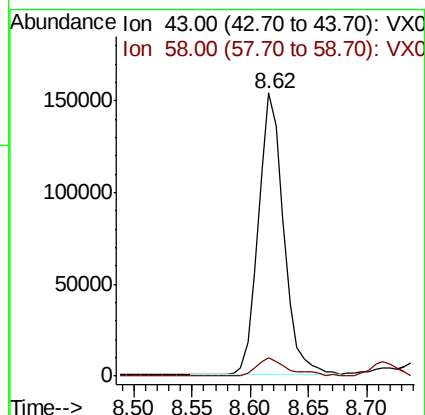
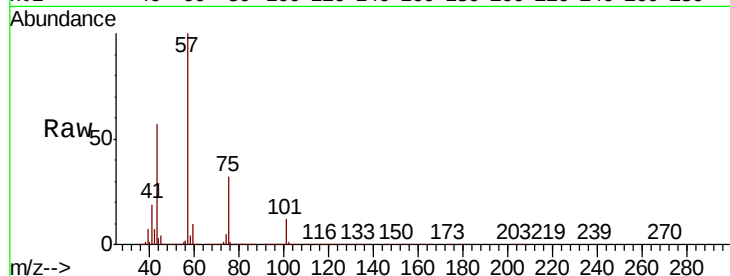
BU-02-112918

Tot Ion: 43 Resp: 234519

Ion Ratio Lower Upper

43 100

58 7.9 31.3 46.9#



#52

Toluene

Concen: 0.349 ug/l

RT: 8.78 min Scan# 1251

Delta R.T. -0.01 min

Lab File: VX006229.D

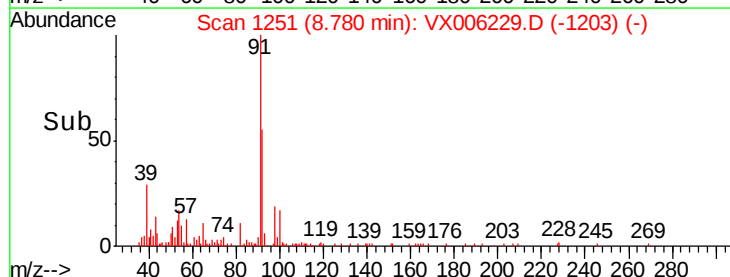
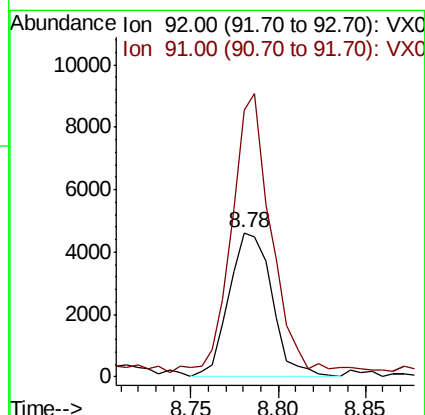
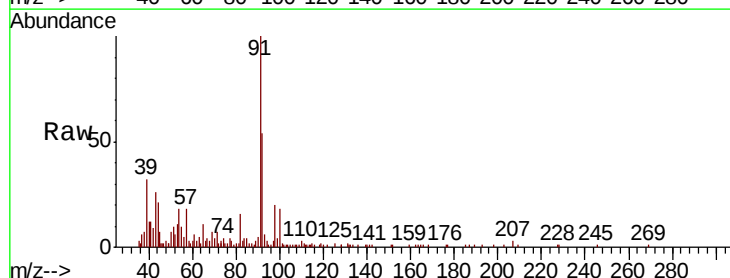
Acq: 30 Nov 2018 14:43

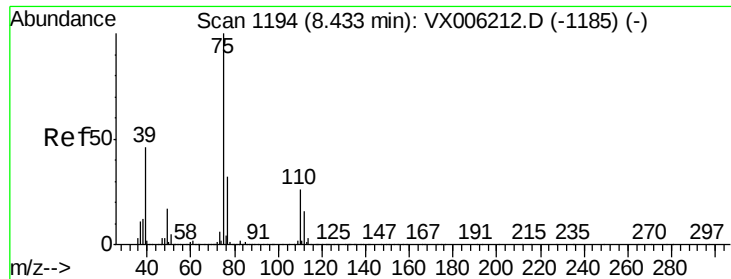
Tgt Ion: 92 Resp: 7939

Ion Ratio Lower Upper

92 100

91 177.9 139.2 208.8





#54

cis-1,3-Dichloropropene

Concen: 8.295 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX006229.D

Acq: 30 Nov 2018 14:43

Instrument :

MSVOA_X

ClientSampleId :

BU-02-112918

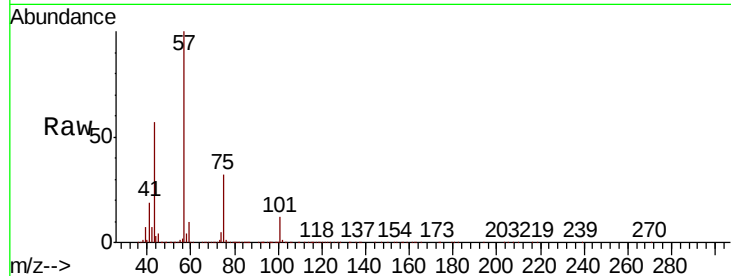
Tot Ion: 75 Resp: 123896

Ion Ratio Lower Upper

75 100

77 0.4 25.6 38.4#

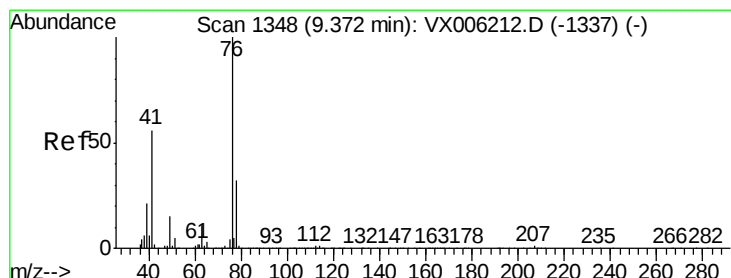
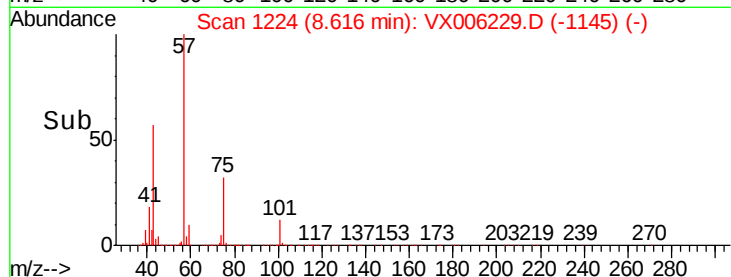
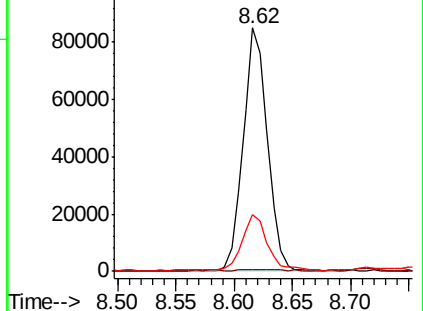
39 22.9 36.5 54.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0



#57

1,3-Dichloropropane

Concen: 1.763 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.17 min

Lab File: VX006229.D

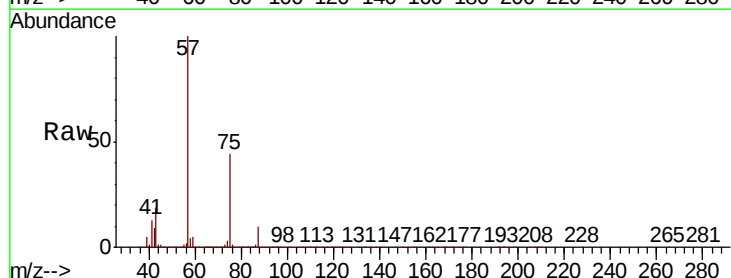
Acq: 30 Nov 2018 14:43

Tgt Ion: 76 Resp: 25782

Ion Ratio Lower Upper

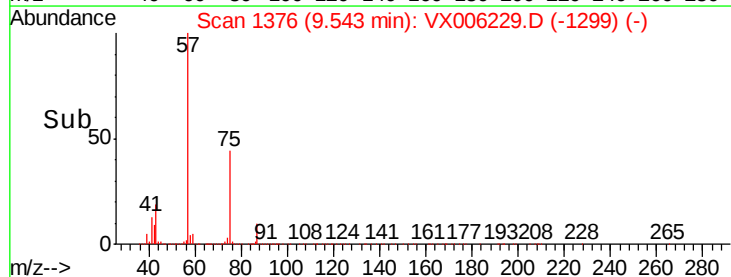
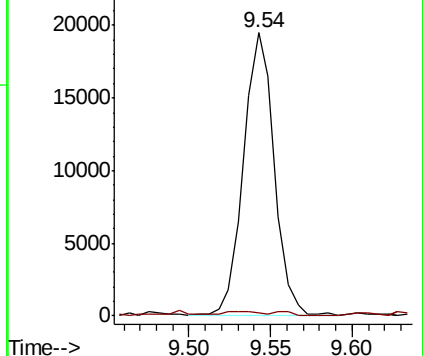
76 100

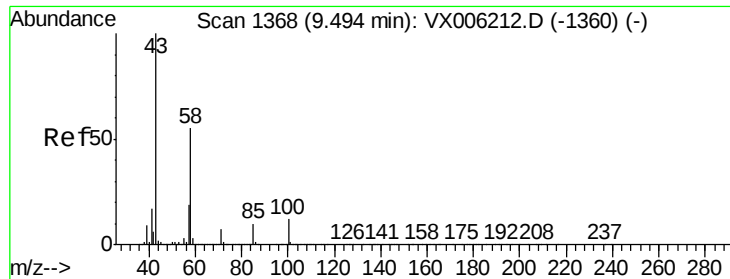
78 0.8 26.1 39.1#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0





#59

2-Hexanone

Concen: 33.386 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.05 min

Lab File: VX006229.D

Acq: 30 Nov 2018 14:43

Instrument :

MSVOA_X

ClientSampleId :

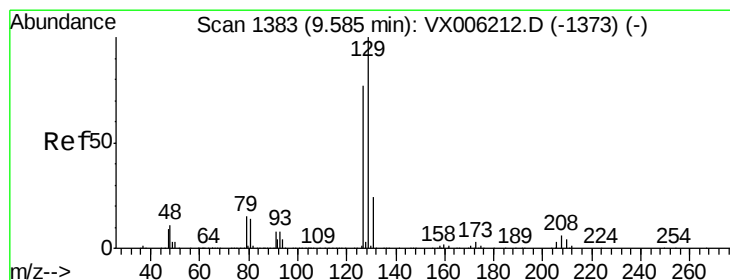
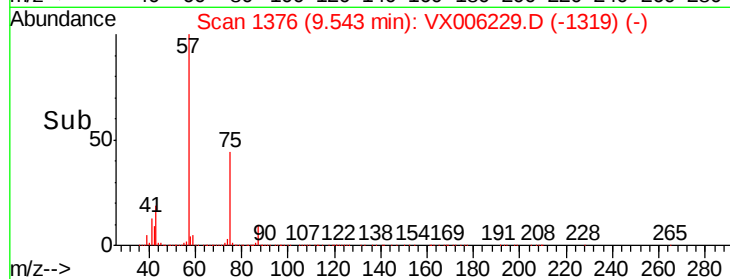
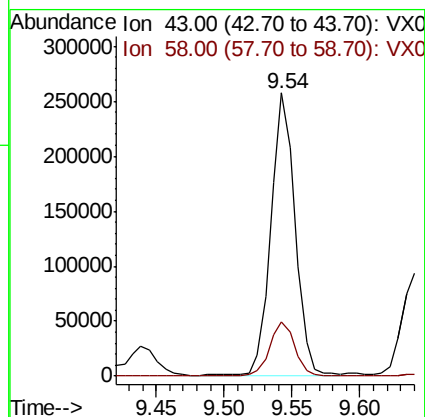
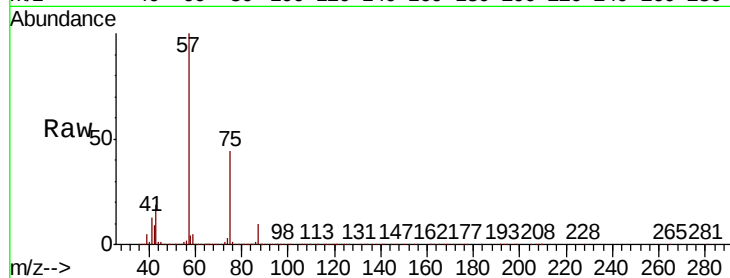
BU-02-112918

Tot Ion: 43 Resp: 320275

Ion Ratio Lower Upper

43 100

58 19.7 27.7 83.1#



#60

Dibromochloromethane

Concen: 6.510 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.25 min

Lab File: VX006229.D

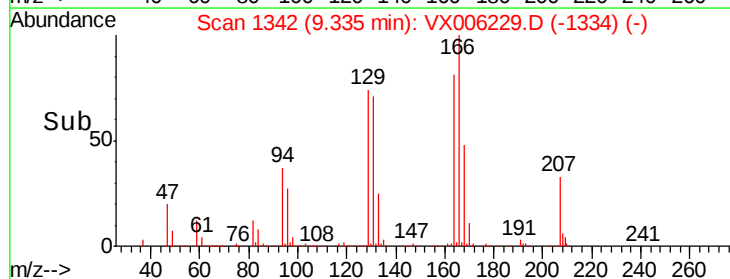
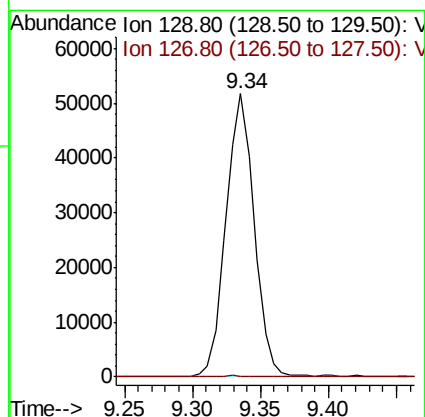
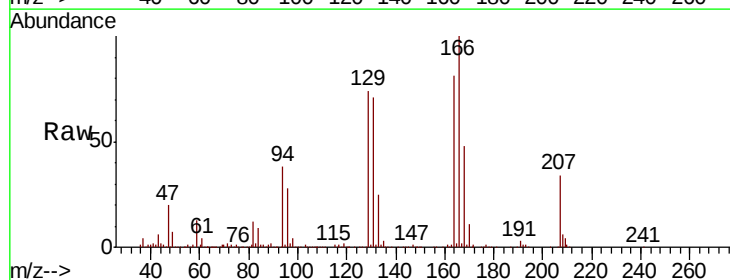
Acq: 30 Nov 2018 14:43

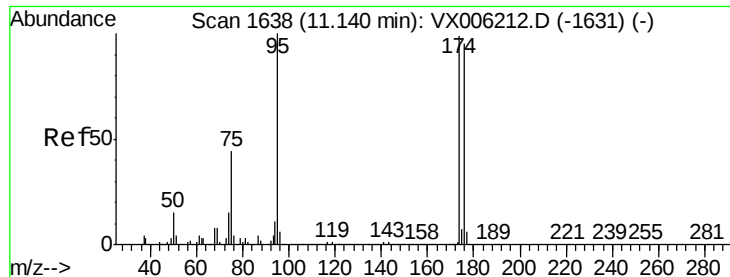
Tgt Ion: 129 Resp: 74240

Ion Ratio Lower Upper

129 100

127 0.2 38.6 115.8#





#62

4-Bromofluorobenzene

Concen: 49.393 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.01 min

Lab File: VX006229.D

Acq: 30 Nov 2018 14:43

Instrument :

MSVOA_X

ClientSampleId :

BU-02-112918

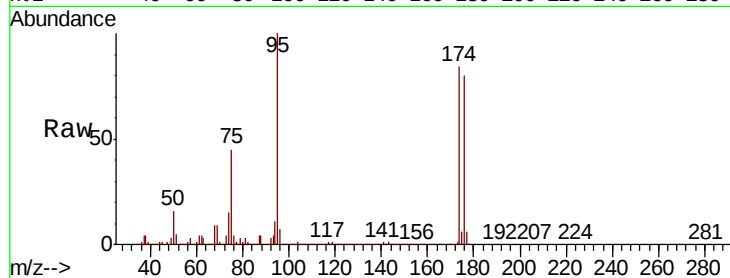
Tot Ion: 95 Resp: 601330

Ion Ratio Lower Upper

95 100

174 92.0 0.0 187.0

176 88.8 0.0 181.8



Abundance Ion 94.90 (94.60 to 95.60): VX006212.D (-1631) (-)

Ion 173.80 (173.50 to 174.50): VX006212.D (-1631) (-)

Ion 175.80 (175.50 to 176.50): VX006212.D (-1631) (-)

11.13

600000

500000

400000

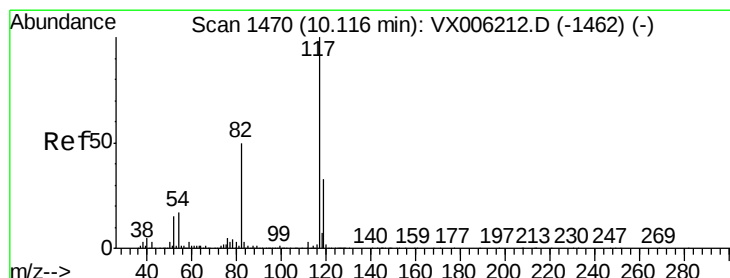
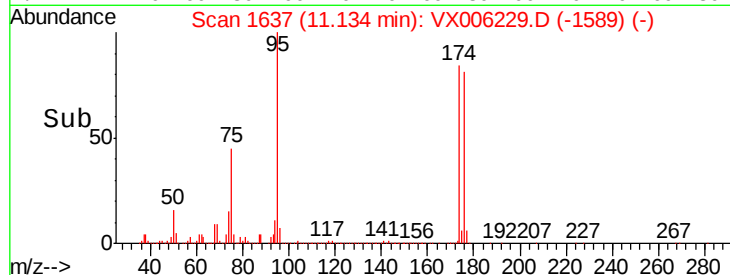
300000

200000

100000

0

Time--> 11.05 11.10 11.15 11.20



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.00 min

Lab File: VX006229.D

Acq: 30 Nov 2018 14:43

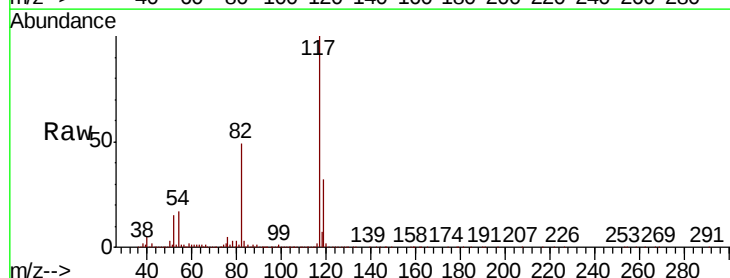
Tgt Ion: 117 Resp: 1254099

Ion Ratio Lower Upper

117 100

82 49.2 39.6 59.4

119 32.0 26.3 39.5



Abundance Ion 116.90 (116.60 to 117.60): VX006212.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX006212.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX006212.D (-1462) (-)

10.12

1200000

1000000

800000

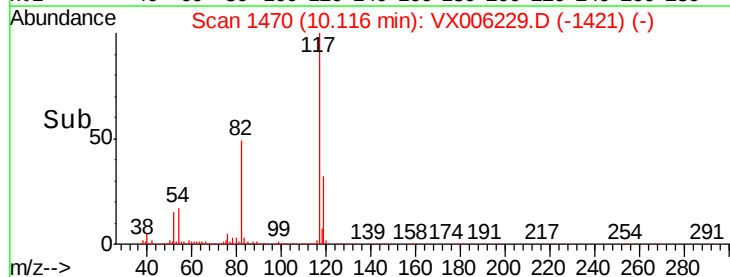
600000

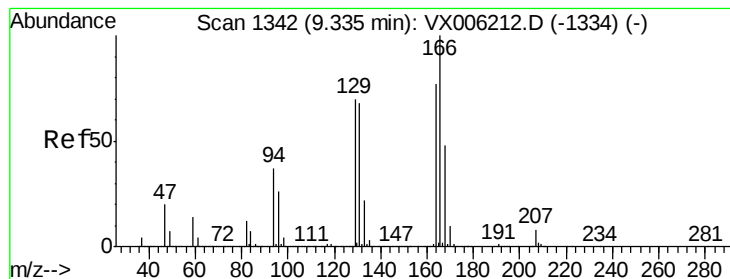
400000

200000

0

Time--> 10.00 10.10 10.20 10.30





#64

Tetrachloroethene

Concen: 8.747 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. 0.00 min

Lab File: VX006229.D

Acq: 30 Nov 2018 14:43

Instrument :

MSVOA_X

ClientSampleId :

BU-02-112918

Tot Ion:164 Resp: 82607

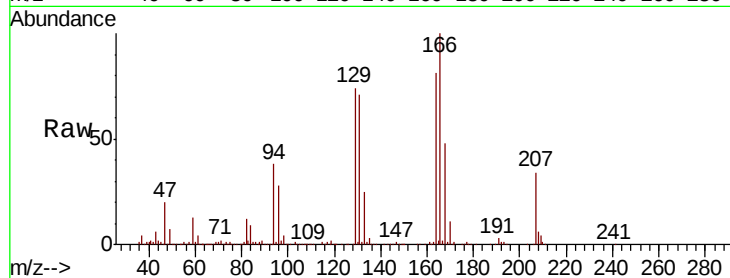
Ion Ratio Lower Upper

164 100

166 123.8 104.2 156.2

129 91.6 72.6 108.8

131 87.4 70.3 105.5

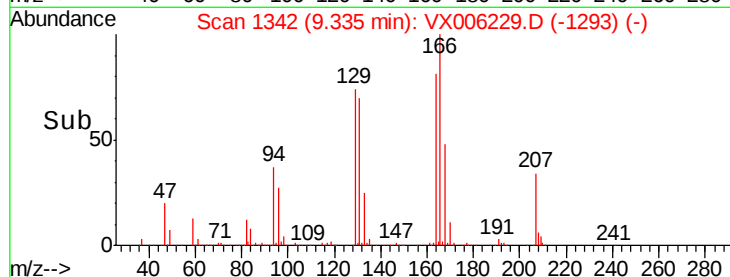


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

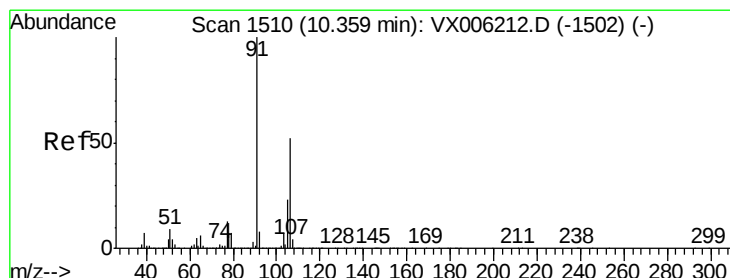
Ion 130.80 (130.50 to 131.50): V



Abundance

9.34

Time-->



#68

m/p-Xylenes

Concen: 0.230 ug/l

RT: 10.36 min Scan# 1510

Delta R.T. 0.00 min

Lab File: VX006229.D

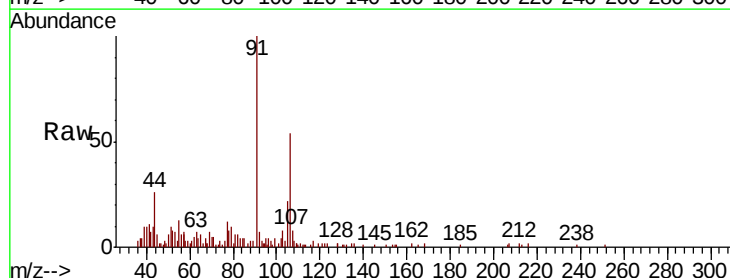
Acq: 30 Nov 2018 14:43

Tgt Ion:106 Resp: 4088

Ion Ratio Lower Upper

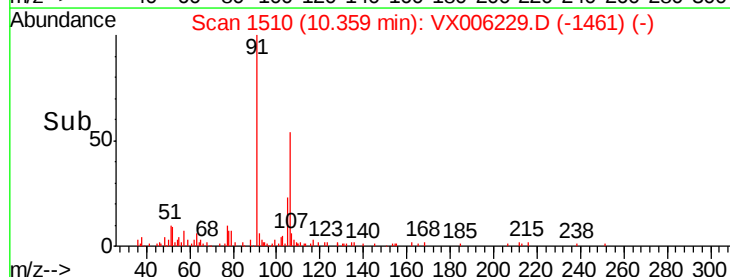
106 100

91 204.5 155.2 232.8



Abundance Ion 106.00 (105.70 to 106.70): V

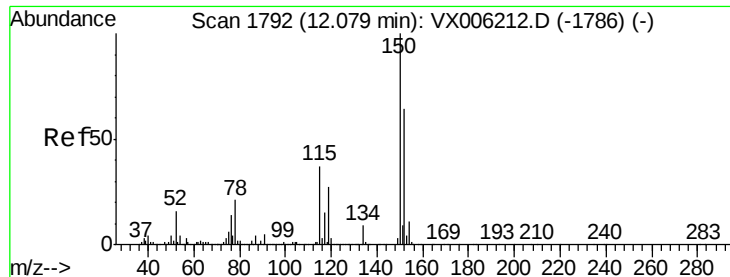
Ion 91.00 (90.70 to 91.70): V



Abundance

10.36

Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX006229.D

Acq: 30 Nov 2018 14:43

Instrument :

MSVOA_X

ClientSampleId :

BU-02-112918

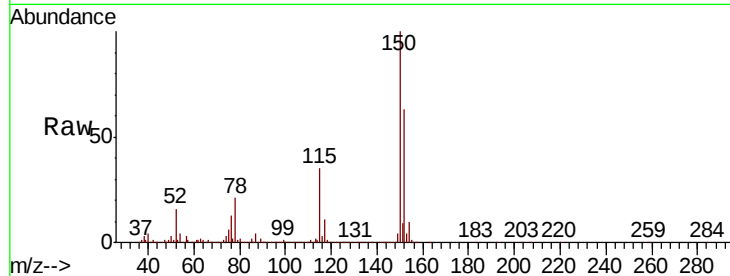
Tot Ion:152 Resp: 632200

Ion Ratio Lower Upper

152 100

115 55.8 39.0 116.9

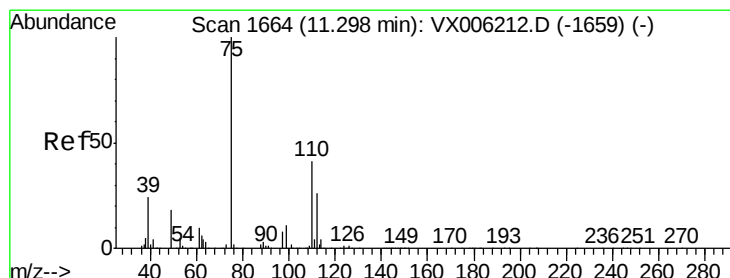
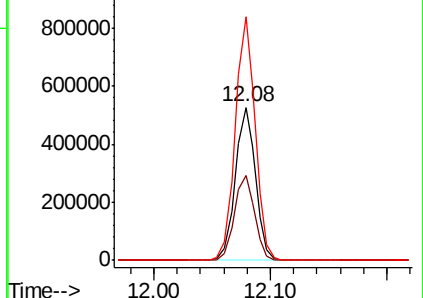
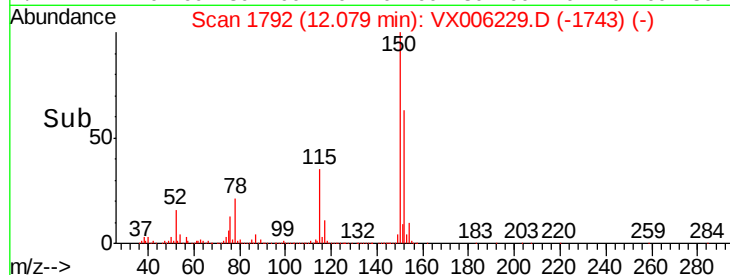
150 157.5 0.0 345.8



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: 22.543 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX006229.D

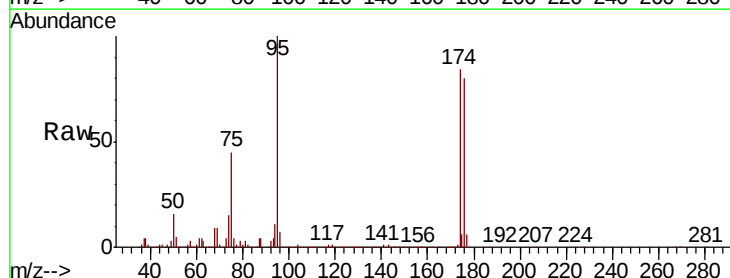
Acq: 30 Nov 2018 14:43

Tgt Ion: 75 Resp: 275084

Ion Ratio Lower Upper

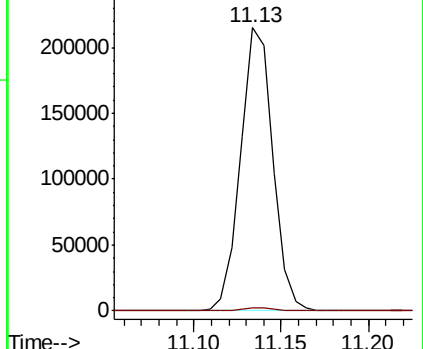
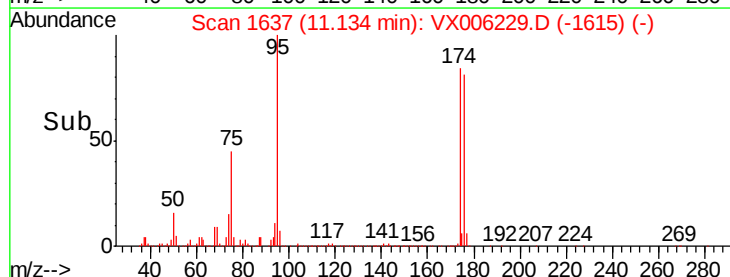
75 100

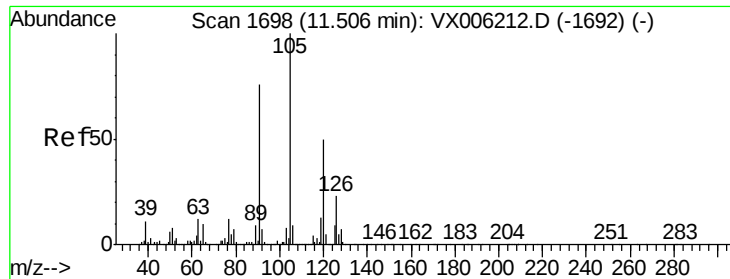
77 1.3 19.9 59.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

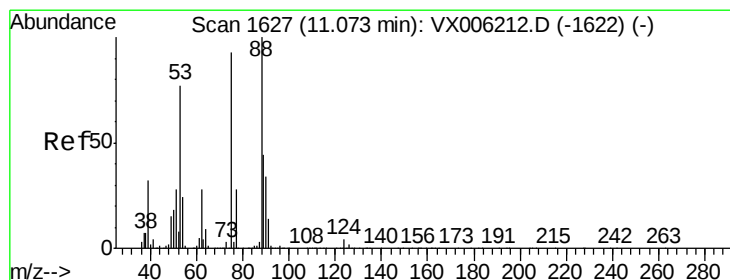
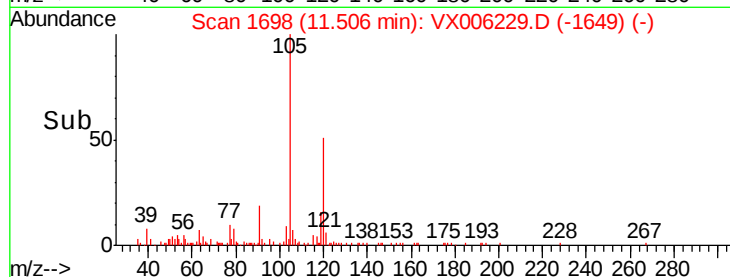
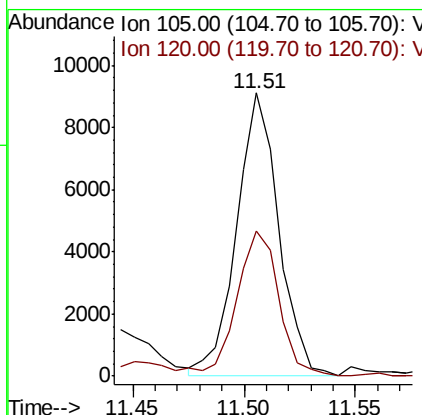
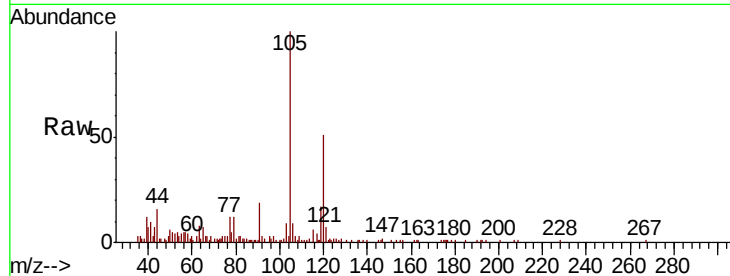




#80
 1,3,5-Trimethylbenzene
 Concen: 0.331 ug/l
 RT: 11.51 min Scan# 1698
 Delta R.T. 0.00 min
 Lab File: VX006229.D
 Acq: 30 Nov 2018 14:43

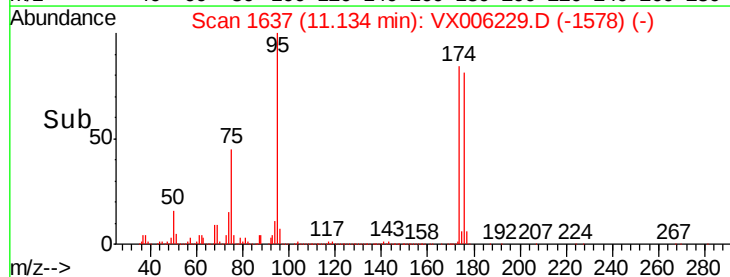
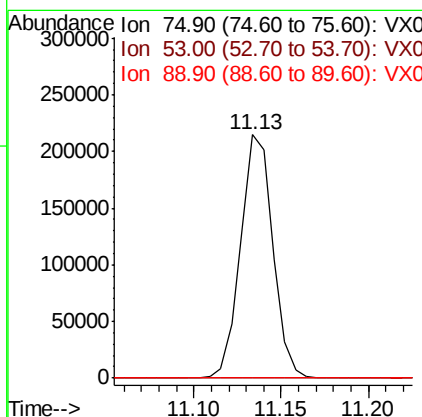
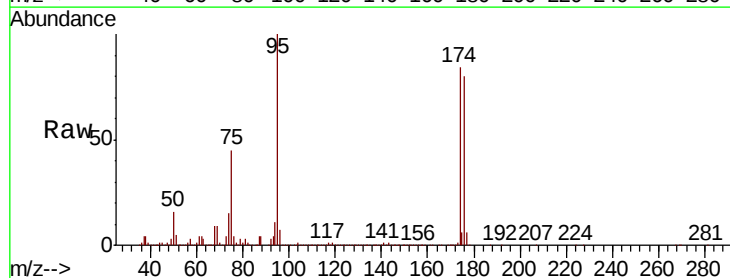
Instrument :
 MSVOA_X
 ClientSampleId :
 BU-02-112918

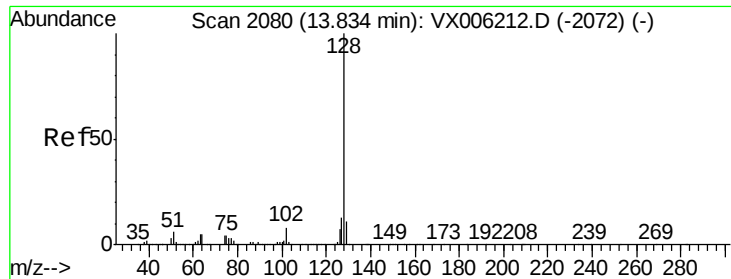
Tot Ion:105 Resp: 12018
 Ion Ratio Lower Upper
 105 100
 120 50.3 25.4 76.0



#81
 trans-1,4-Dichloro-2-butene
 Concen: 52.903 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX006229.D
 Acq: 30 Nov 2018 14:43

Tgt Ion: 75 Resp: 275084
 Ion Ratio Lower Upper
 75 100
 53 0.1 64.4 96.6#
 89 0.0 44.2 66.4#

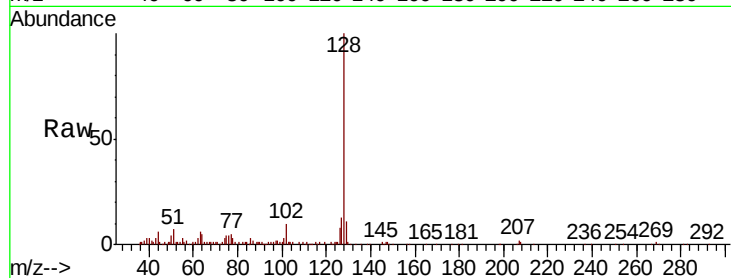




#95
Naphthalene
Concen: 0.582 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. 0.00 min
Lab File: VX006229.D
Acq: 30 Nov 2018 14:43

Instrument :
MSVOA_X
ClientSampleId :
BU-02-112918

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.2	15.4
129	12.5	8.9	13.3



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

