

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX061219\
 Data File : VX010249.D
 Acq On : 12 Jun 2019 14:38
 Operator : JC/SP
 Sample : K3309-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SS043MW011-190611

Quant Time: Jun 13 02:13:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X060719W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 08 02:12:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	318357	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	484169	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	441382	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	214434	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	144510	46.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.00%	
35) Dibromofluoromethane	5.50	113	148352	49.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.34%	
50) Toluene-d8	8.71	98	563647	50.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.72%	
62) 4-Bromofluorobenzene	11.13	95	198631	47.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.04%	

Target Compounds

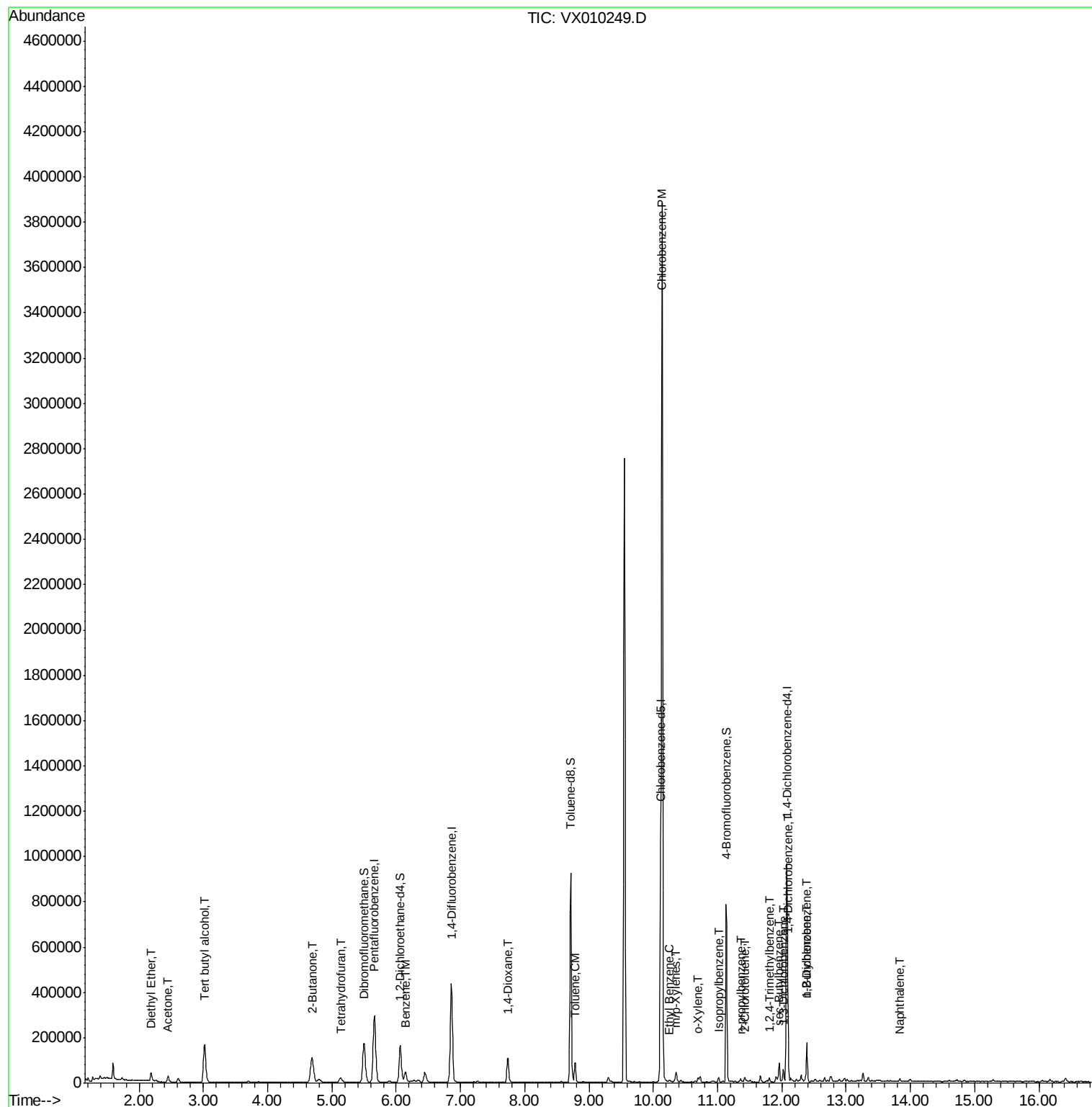
					Qvalue	
8) Diethyl Ether	2.19	74	12932	9.238	ug/l	76
11) Tert butyl alcohol	3.02	59	114305	150.153	ug/l #	82
16) Acetone	2.44	43	2380	1.628	ug/l #	83
25) 2-Butanone	4.70	43	5582	2.565	ug/l	92
29) Tetrahydrofuran	5.13	42	17503	12.796	ug/l #	75
40) Benzene	6.15	78	56026	4.587	ug/l	97
49) 1,4-Dioxane	7.74	88	89578	977.632	ug/l #	76
52) Toluene	8.78	92	33870	4.218	ug/l	99
65) Chlorobenzene	10.14	112	1849450	203.018	ug/l	99
67) Ethyl Benzene	10.25	91	5395	0.348	ug/l #	86
68) m/p-Xylenes	10.36	106	9384	1.564	ug/l	91
69) o-Xylene	10.69	106	4534	0.760	ug/l	83
73) Isopropylbenzene	11.02	105	10694	0.714	ug/l	95
78) n-propylbenzene	11.36	91	8174	0.490	ug/l	89
79) 2-Chlorotoluene	11.42	91	9054	0.905	ug/l	93
84) 1,2,4-Trimethylbenzene	11.80	105	8855	0.695	ug/l	97
85) sec-Butylbenzene	11.94	105	5896	0.397	ug/l	99
87) 1,3-Dichlorobenzene	12.02	146	15674	2.162	ug/l	97
88) 1,4-Dichlorobenzene	12.10	146	107822	14.752	ug/l	99
89) n-Butylbenzene	12.38	91	4555	0.389	ug/l #	67
91) 1,2-Dichlorobenzene	12.39	146	57167	8.110	ug/l	97
95) Naphthalene	13.83	128	6056	0.373	ug/l #	92

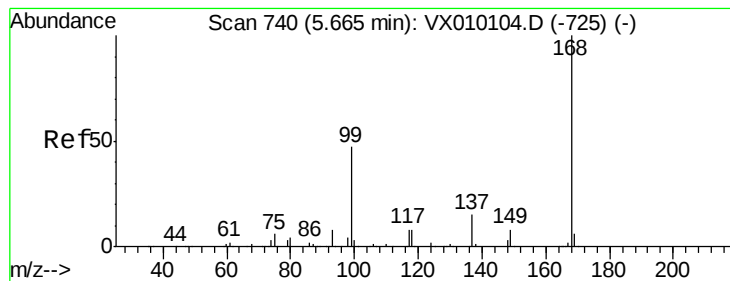
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X060719W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 08 02:12:13 2019
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: VX010249.D

Acq: 12 Jun 2019 14:38

Instrument :

MSVOA_X

ClientSampleId :

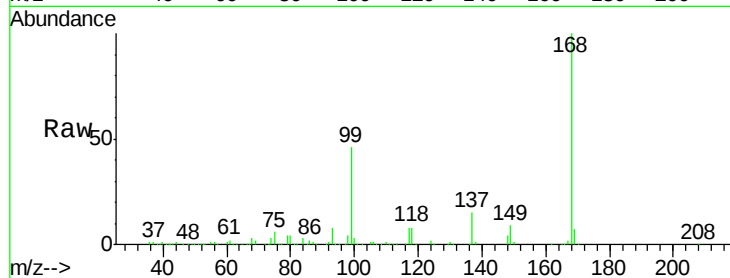
SS043MW011-190611

Tot Ion:168 Resp: 318357

Ion Ratio Lower Upper

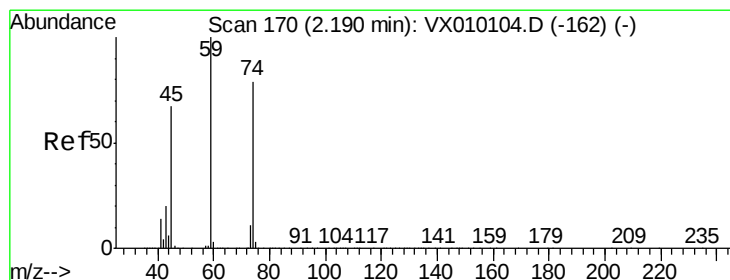
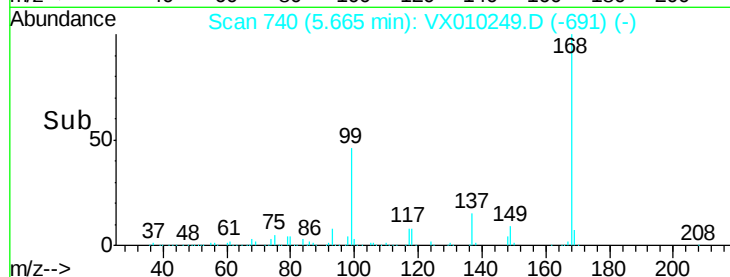
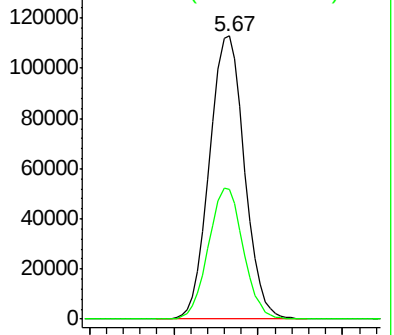
168 100

99 46.0 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#8

Diethyl Ether

Concen: 9.238 ug/l

RT: 2.19 min Scan# 170

Delta R.T. -0.00 min

Lab File: VX010249.D

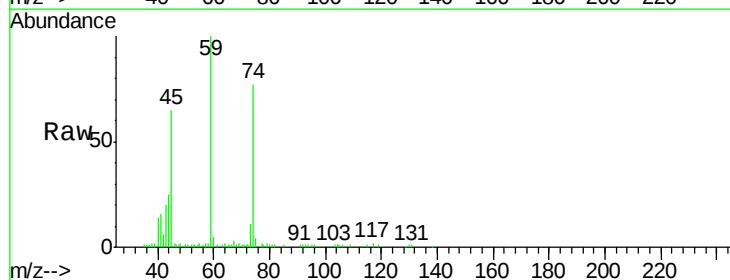
Acq: 12 Jun 2019 14:38

Tgt Ion: 74 Resp: 12932

Ion Ratio Lower Upper

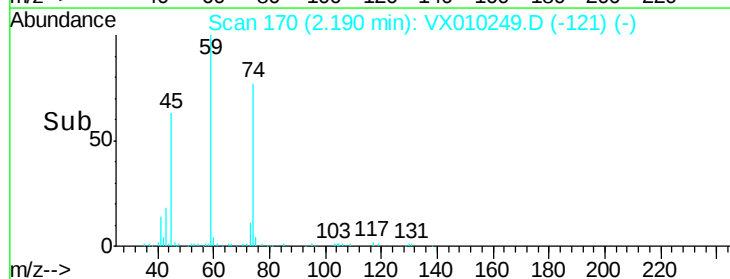
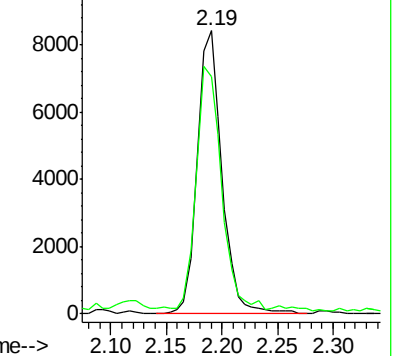
74 100

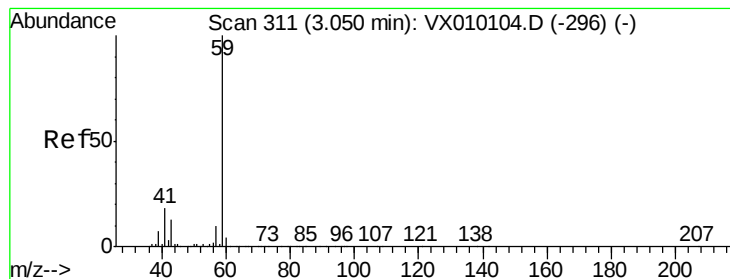
45 86.5 56.1 168.3



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



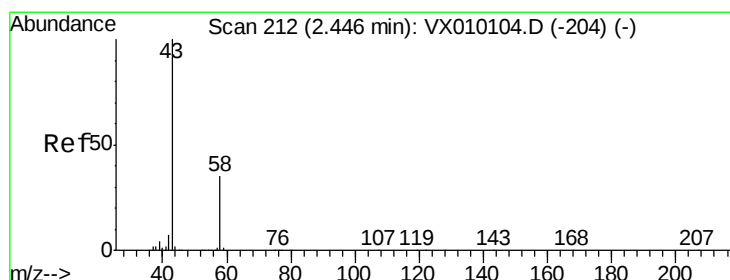
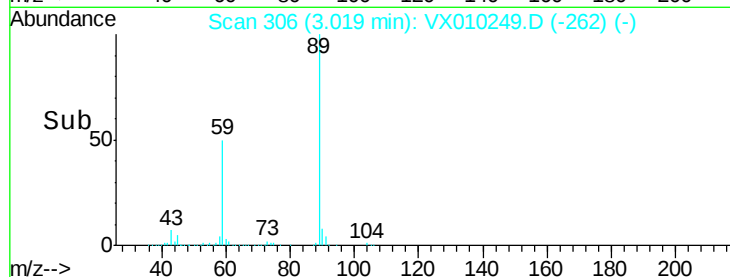
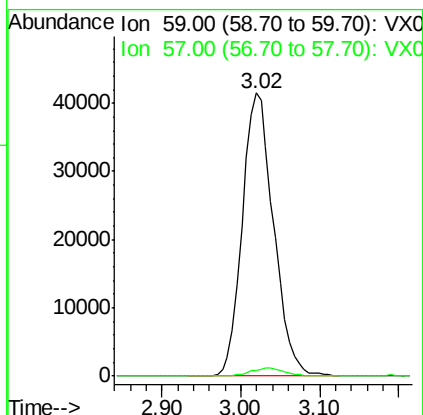
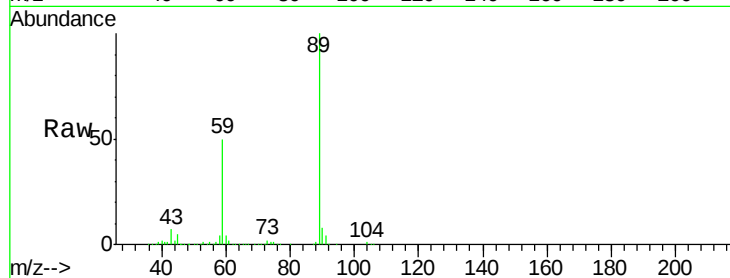


#11

Tert butyl alcohol
 Concen: 150.153 ug/l
 RT: 3.02 min Scan# 306
 Delta R.T. -0.03 min
 Lab File: VX010249.D
 Acq: 12 Jun 2019 14:38

Instrument :
 MSVOA_X
 ClientSampleId :
 SS043MW011-190611

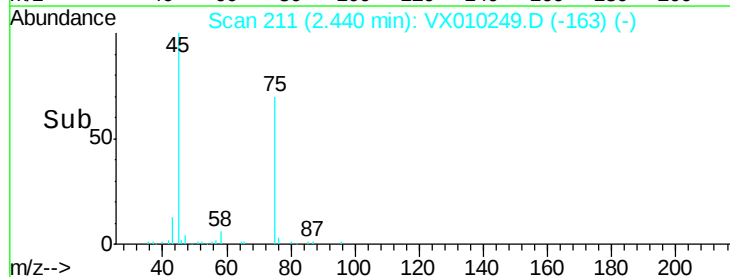
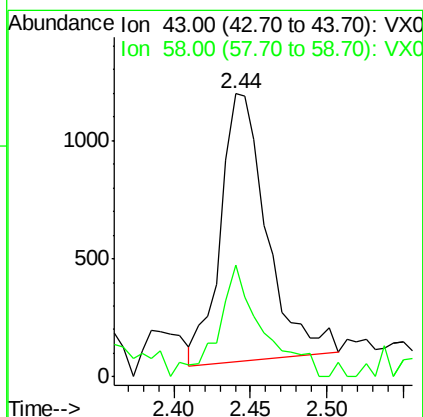
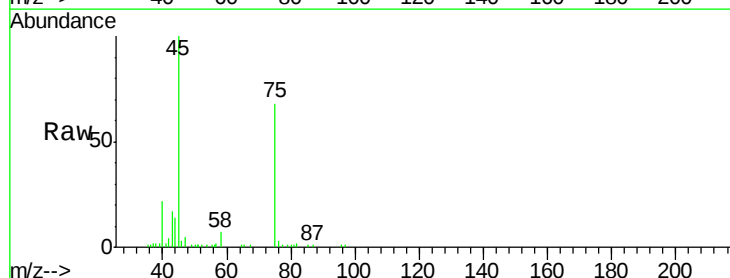
Tot Ion: 59 Resp: 114305
 Ion Ratio Lower Upper
 59 100
 57 3.5 8.2 12.2#

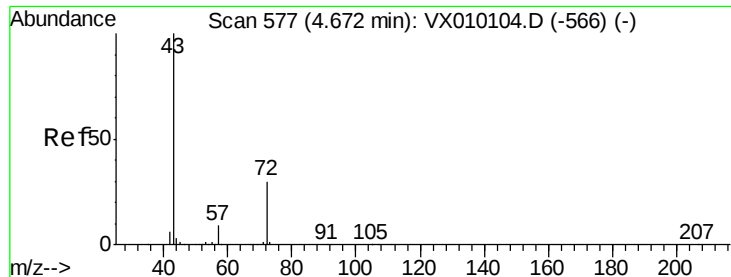


#16

Acetone
 Concen: 1.628 ug/l
 RT: 2.44 min Scan# 211
 Delta R.T. -0.01 min
 Lab File: VX010249.D
 Acq: 12 Jun 2019 14:38

Tgt Ion: 43 Resp: 2380
 Ion Ratio Lower Upper
 43 100
 58 38.3 23.2 34.8#





#25

2-Butanone

Concen: 2.565 ug/l

RT: 4.70 min Scan# 581

Delta R.T. 0.02 min

Lab File: VX010249.D

Acq: 12 Jun 2019 14:38

Instrument :

MSVOA_X

ClientSampleId :

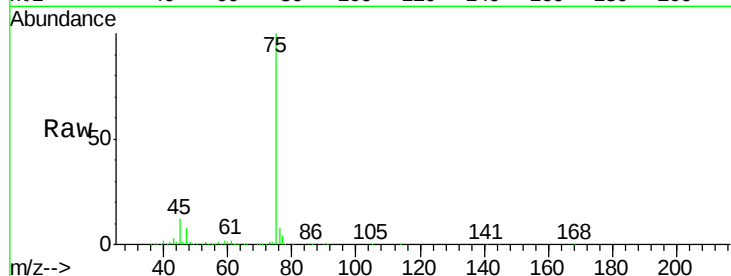
SS043MW011-190611

Tot Ion: 43 Resp: 5582

Ion Ratio Lower Upper

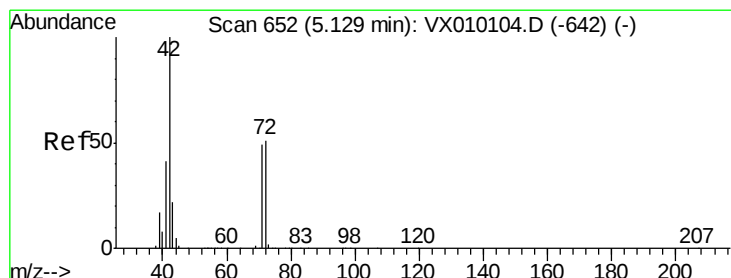
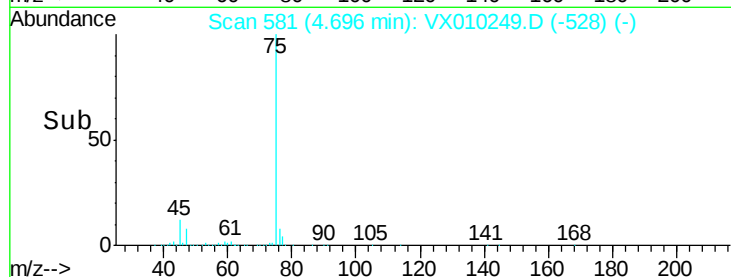
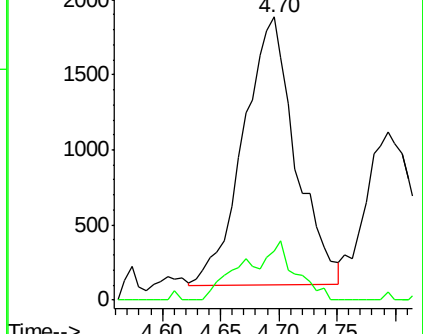
43 100

72 18.3 17.5 26.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#29

Tetrahydrofuran

Concen: 12.796 ug/l

RT: 5.13 min Scan# 653

Delta R.T. 0.01 min

Lab File: VX010249.D

Acq: 12 Jun 2019 14:38

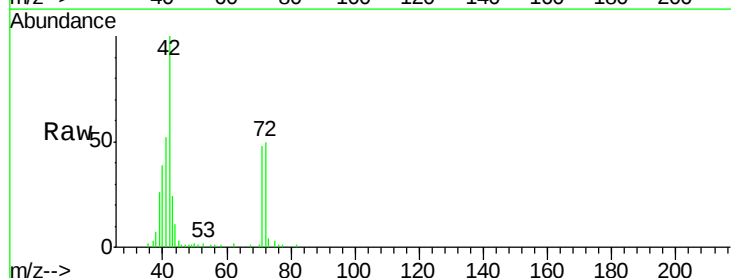
Tgt Ion: 42 Resp: 17503

Ion Ratio Lower Upper

42 100

72 51.0 29.2 43.8#

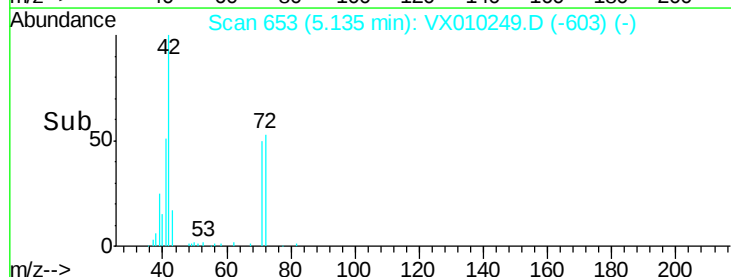
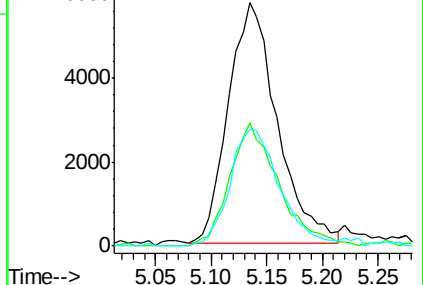
71 49.2 27.6 41.4#

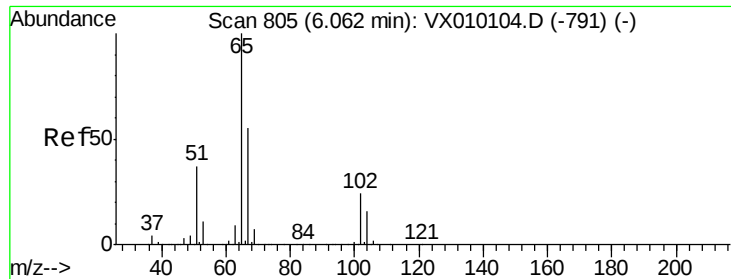


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 46.503 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX010249.D

Acq: 12 Jun 2019 14:38

Instrument :

MSVOA_X

ClientSampleId :

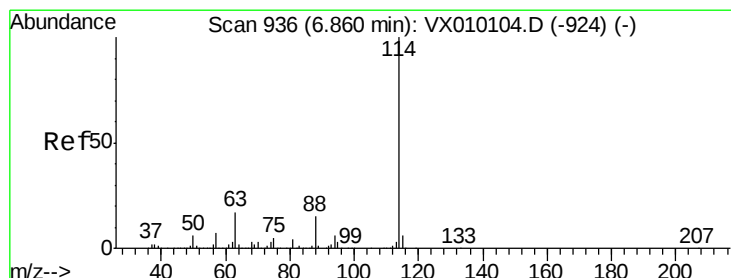
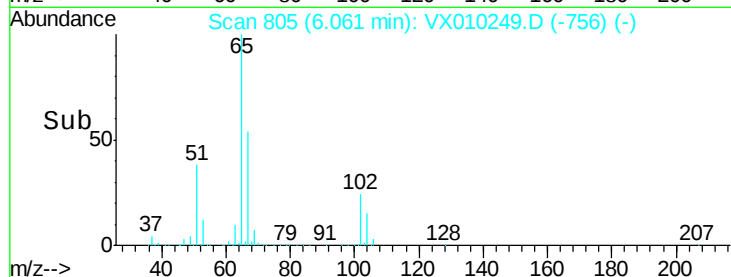
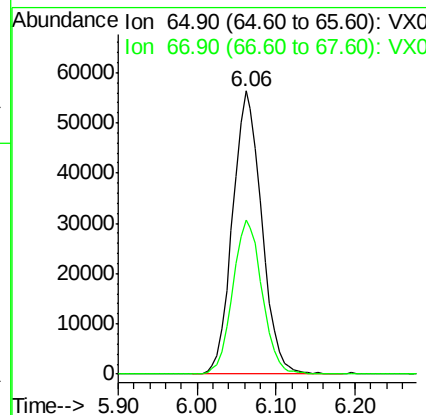
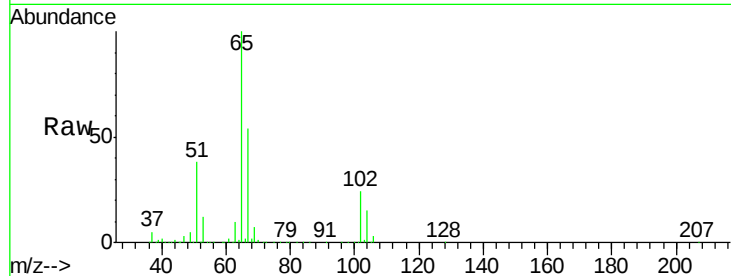
SS043MW011-190611

Tot Ion: 65 Resp: 144510

Ion Ratio Lower Upper

65 100

67 55.2 0.0 108.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX010249.D

Acq: 12 Jun 2019 14:38

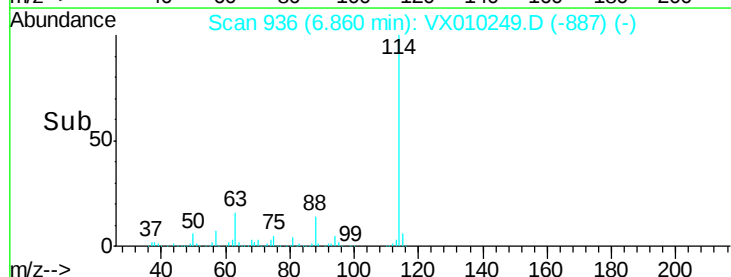
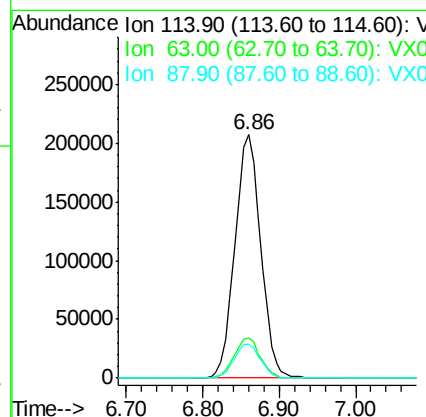
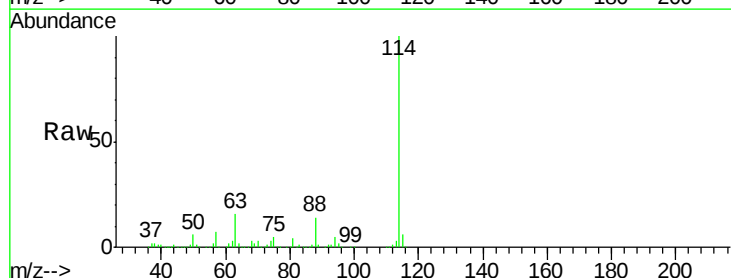
Tgt Ion: 114 Resp: 484169

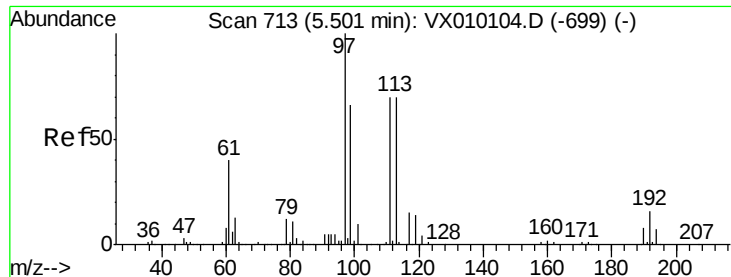
Ion Ratio Lower Upper

114 100

63 16.3 0.0 47.4

88 14.0 0.0 33.0





#35

Dibromofluoromethane

Concen: 49.675 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX010249.D

Acq: 12 Jun 2019 14:38

Instrument :

MSVOA_X

ClientSampleId :

SS043MW011-190611

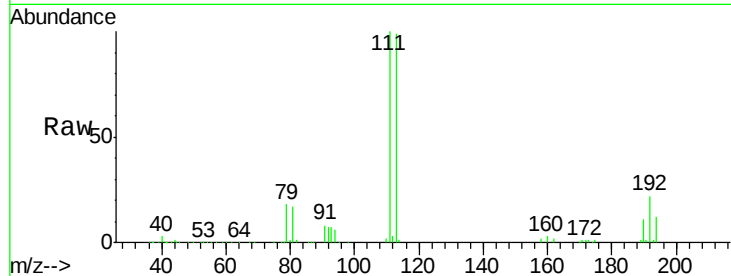
Tot Ion:113 Resp: 148352

Ion Ratio Lower Upper

113 100

111 102.3 82.2 123.2

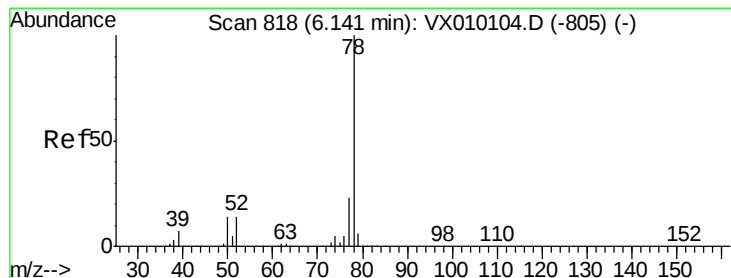
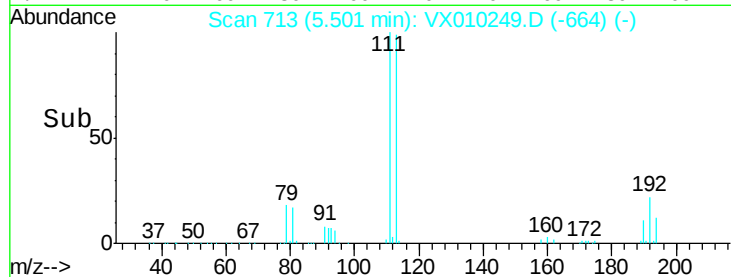
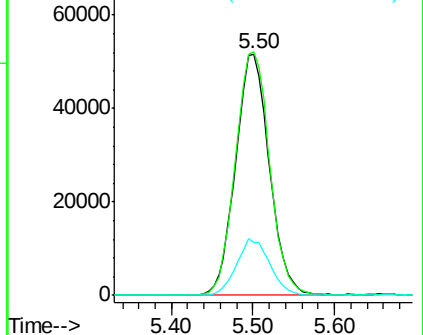
192 23.1 17.1 25.7



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



#40

Benzene

Concen: 4.587 ug/l

RT: 6.15 min Scan# 819

Delta R.T. 0.01 min

Lab File: VX010249.D

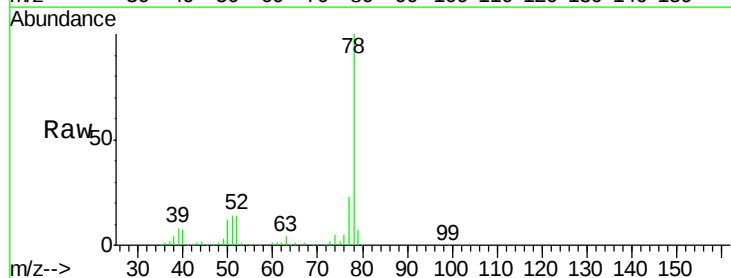
Acq: 12 Jun 2019 14:38

Tgt Ion: 78 Resp: 56026

Ion Ratio Lower Upper

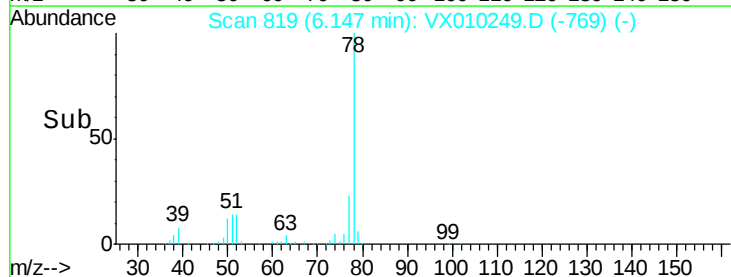
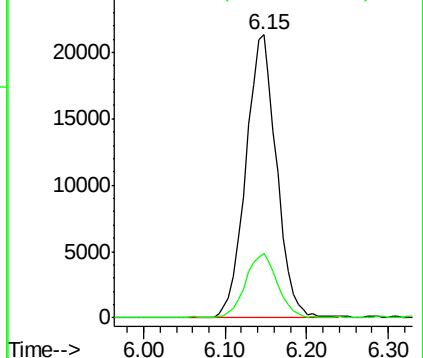
78 100

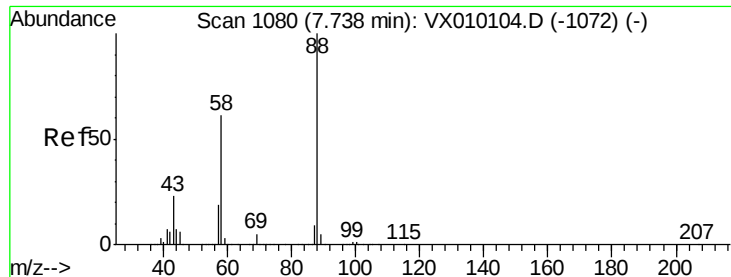
77 22.6 19.2 28.8



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0





#49

1,4-Dioxane

Concen: 977.632 ug/l

RT: 7.74 min Scan# 1080

Delta R.T. -0.00 min

Lab File: VX010249.D

Acq: 12 Jun 2019 14:38

Instrument :

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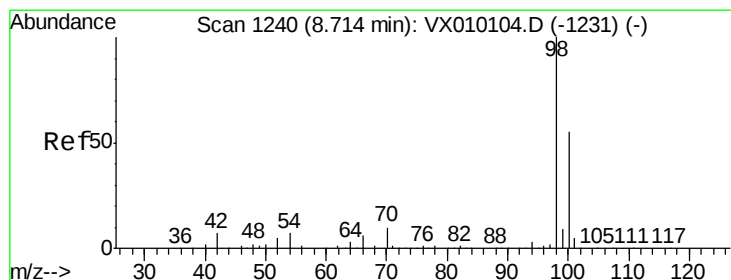
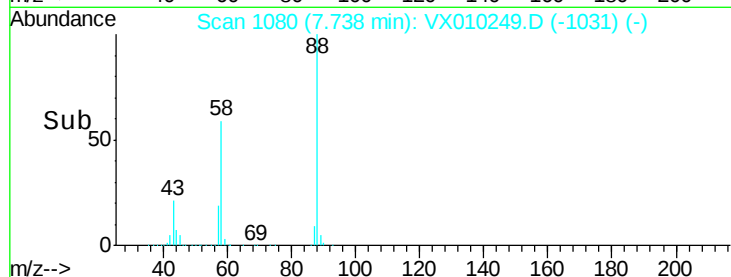
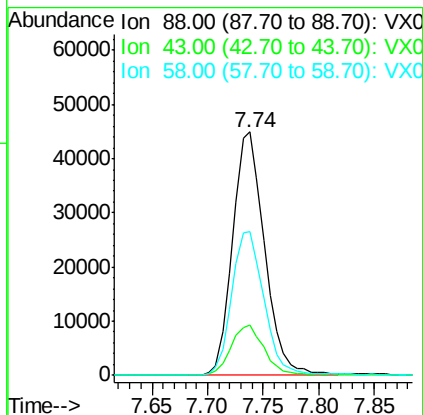
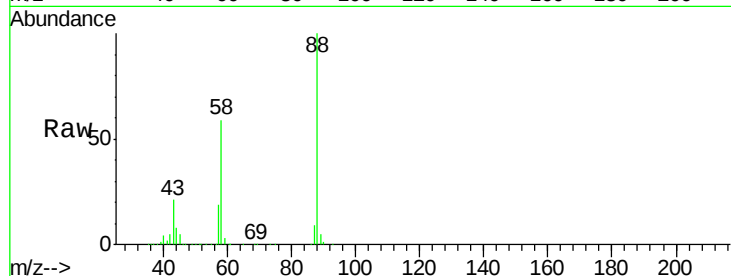
Tot Ion: 88 Resp: 89578

Ion Ratio Lower Upper

88 100

43 20.8 30.2 45.4#

58 60.3 64.0 96.0#



#50

Toluene-d8

Concen: 50.358 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX010249.D

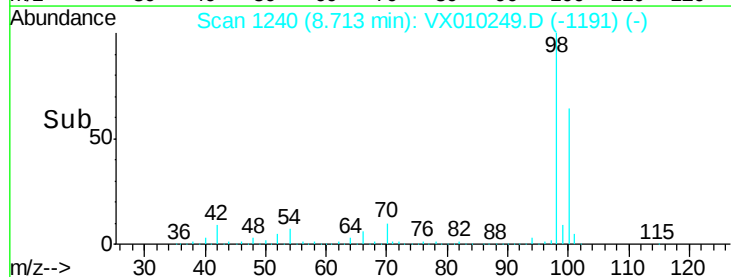
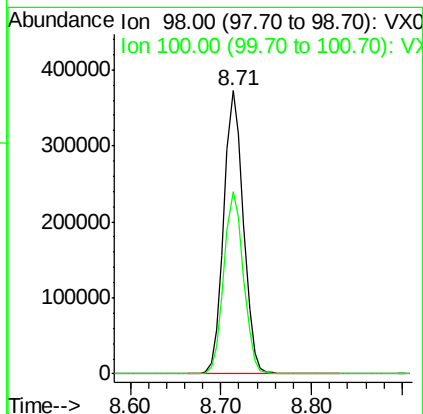
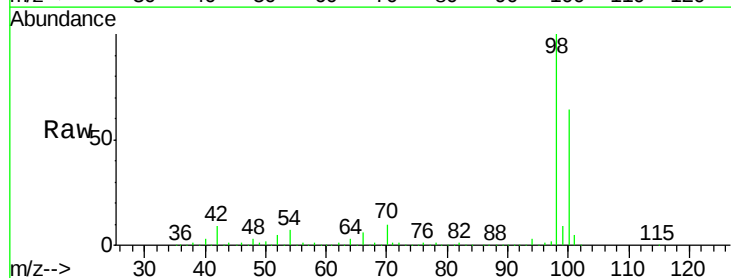
Acq: 12 Jun 2019 14:38

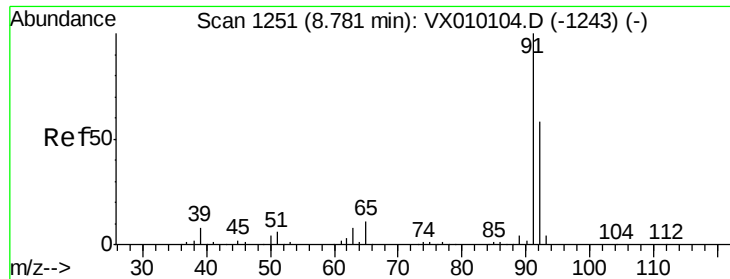
Tgt Ion: 98 Resp: 563647

Ion Ratio Lower Upper

98 100

100 64.5 51.5 77.3





#52

Toluene

Concen: 4.218 ug/l

RT: 8.78 min Scan# 1251

Delta R.T. -0.00 min

Lab File: VX010249.D

Acq: 12 Jun 2019 14:38

Instrument :

MSVOA_X

ClientSampleId :

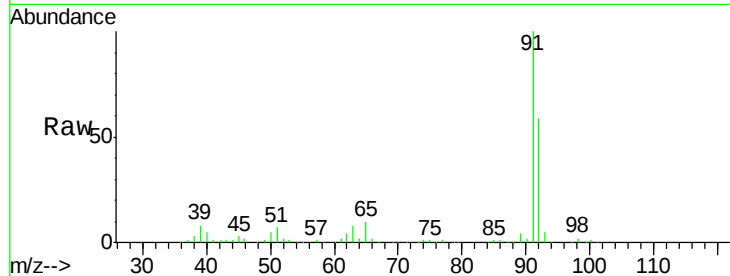
SS043MW011-190611

Tot Ion: 92 Resp: 33870

Ion Ratio Lower Upper

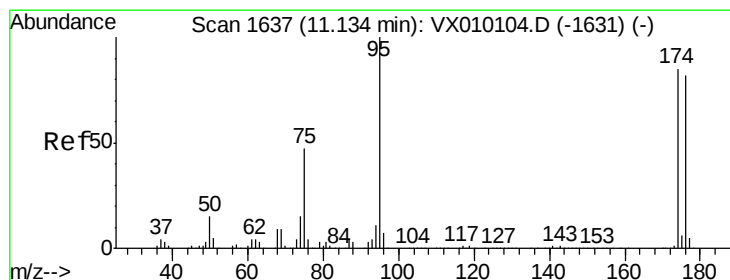
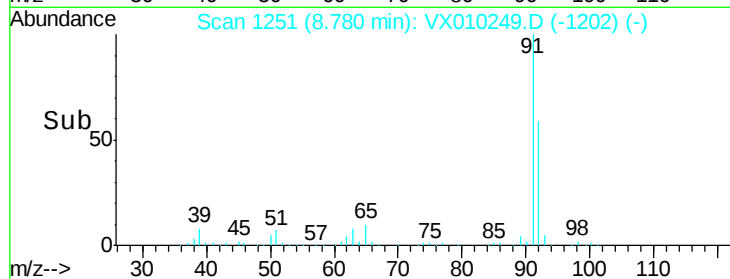
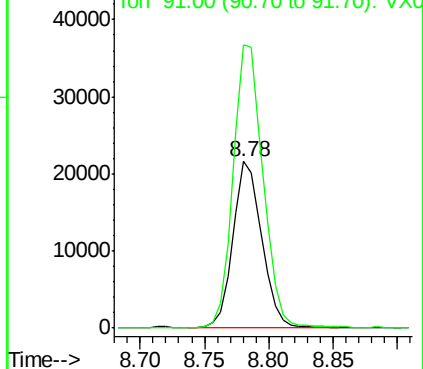
92 100

91 175.8 139.9 209.9



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#62

4-Bromofluorobenzene

Concen: 47.519 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010249.D

Acq: 12 Jun 2019 14:38

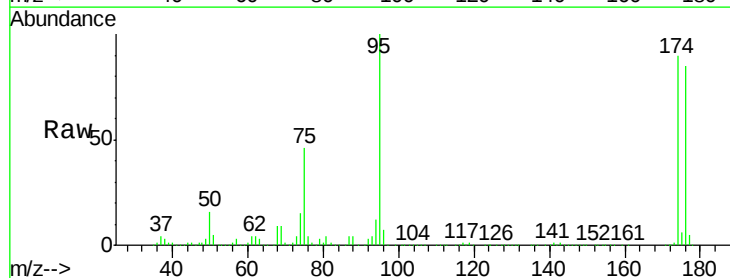
Tgt Ion: 95 Resp: 198631

Ion Ratio Lower Upper

95 100

174 95.3 0.0 160.4

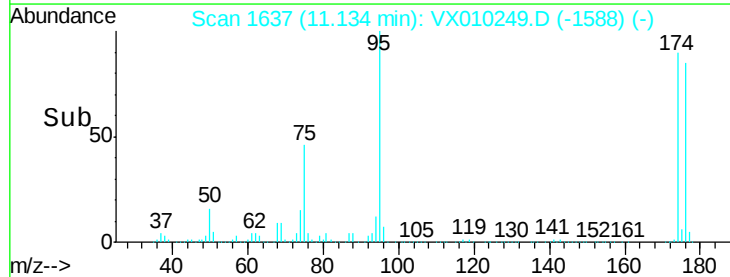
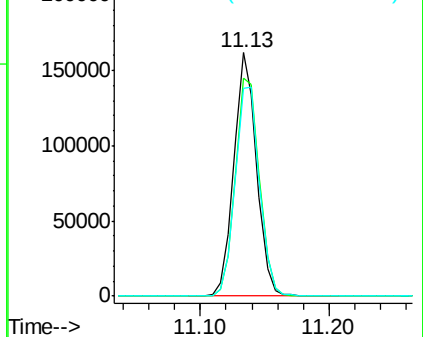
176 92.6 0.0 154.6

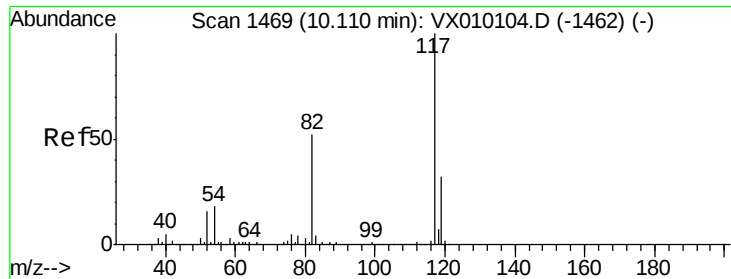


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

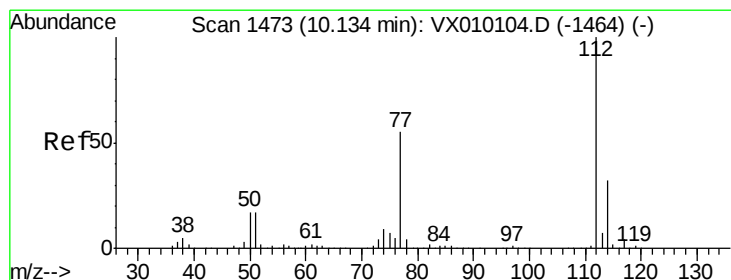
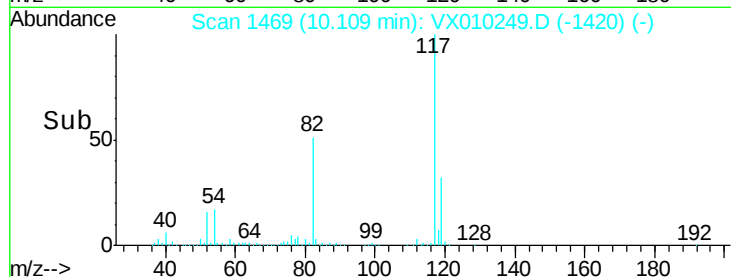
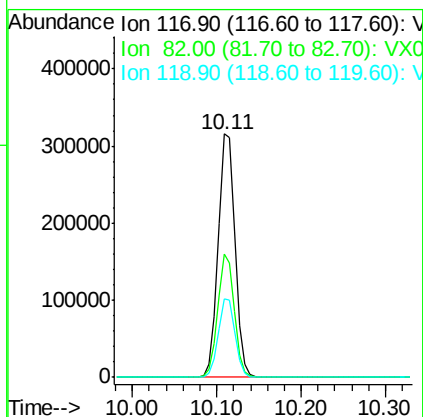
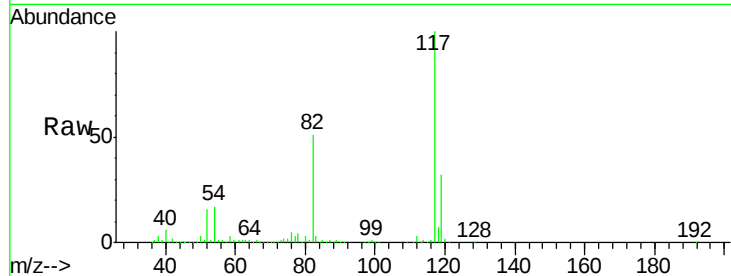




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX010249.D
Acq: 12 Jun 2019 14:38

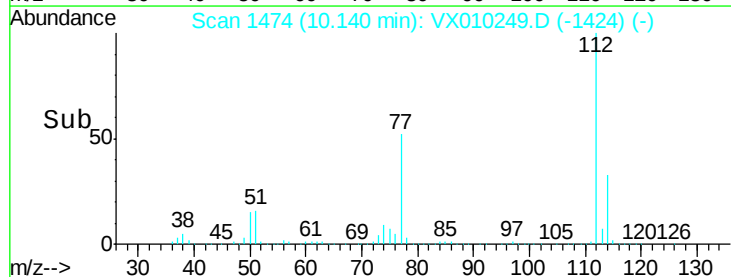
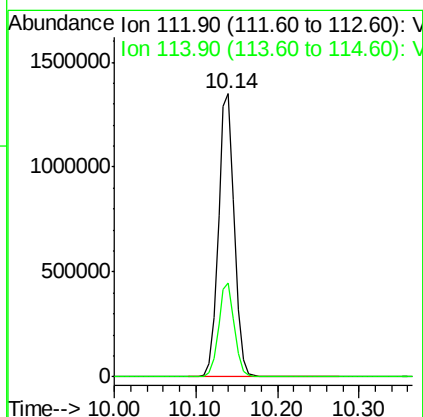
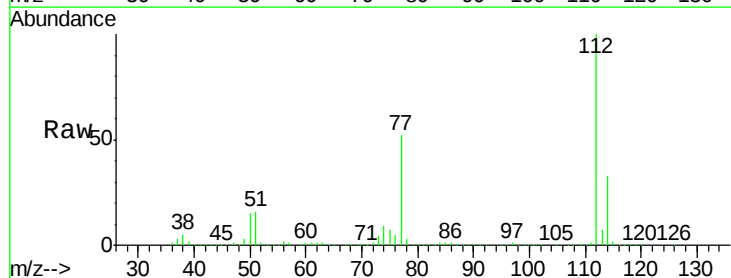
Instrument :
MSVOA_X
ClientSampleId :
SS043MW011-190611

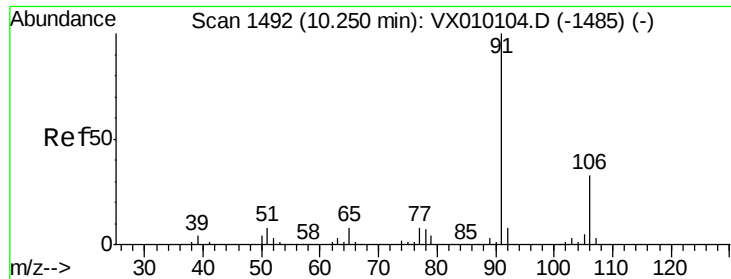
Tot Ion:117 Resp: 441382
Ion Ratio Lower Upper
117 100
82 50.9 49.2 73.8
119 32.3 25.2 37.8



#65
Chlorobenzene
Concen: 203.018 ug/l
RT: 10.14 min Scan# 1474
Delta R.T. 0.01 min
Lab File: VX010249.D
Acq: 12 Jun 2019 14:38

Tgt Ion:112 Resp: 1849450
Ion Ratio Lower Upper
112 100
114 33.0 25.8 38.8

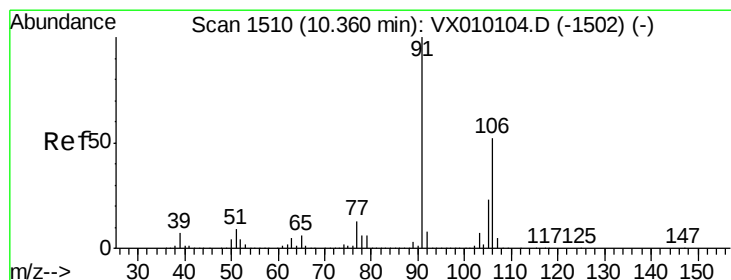
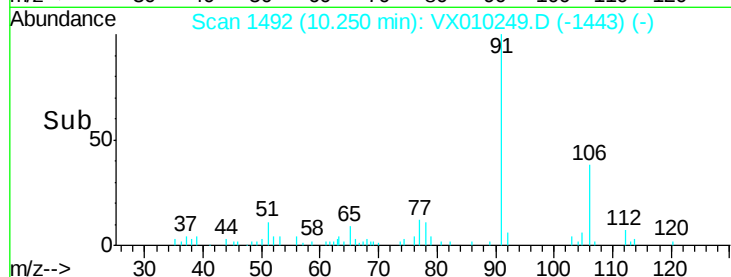
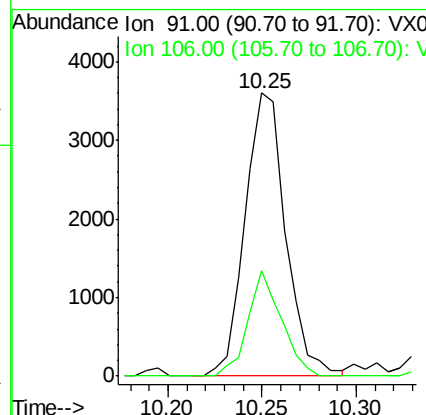
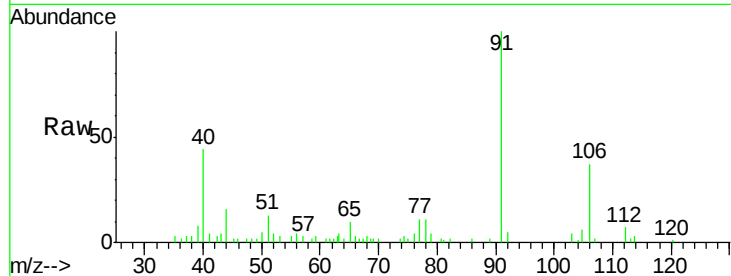




#67
Ethyl Benzene
Concen: 0.348 ug/l
RT: 10.25 min Scan# 1492
Delta R.T. -0.00 min
Lab File: VX010249.D
Acq: 12 Jun 2019 14:38

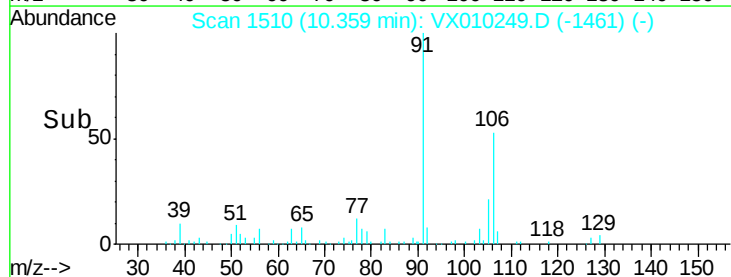
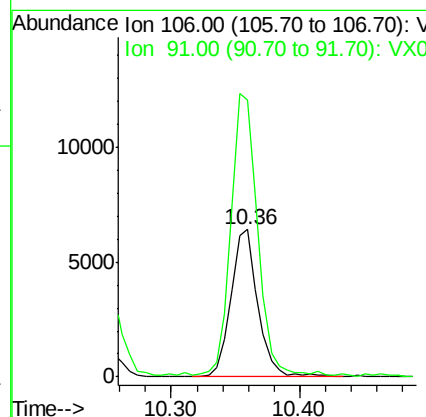
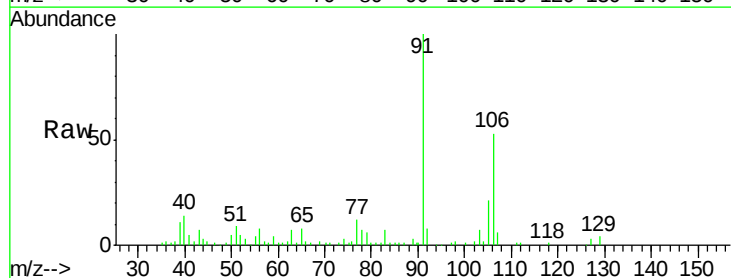
Instrument :
MSVOA_X
ClientSampleId :
SS043MW011-190611

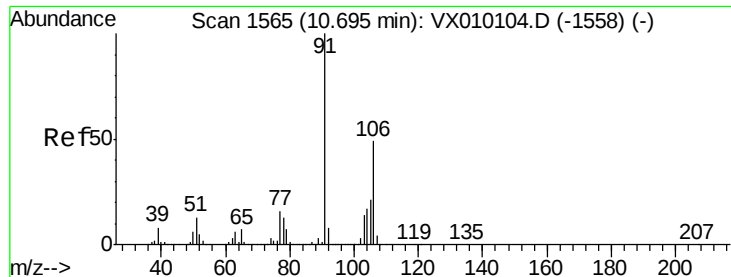
Tot Ion: 91 Resp: 5395
Ion Ratio Lower Upper
91 100
106 37.3 23.9 35.9#



#68
m/p-Xylenes
Concen: 1.564 ug/l
RT: 10.36 min Scan# 1510
Delta R.T. -0.00 min
Lab File: VX010249.D
Acq: 12 Jun 2019 14:38

Tgt Ion: 106 Resp: 9384
Ion Ratio Lower Upper
106 100
91 195.3 167.3 250.9

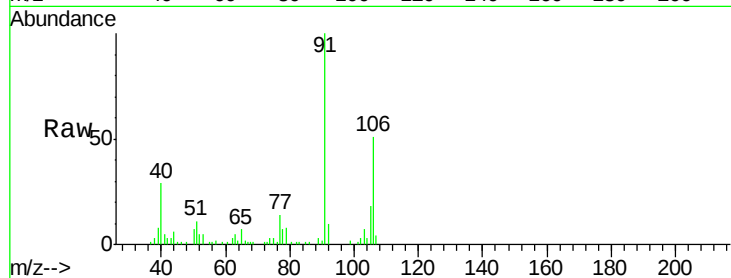




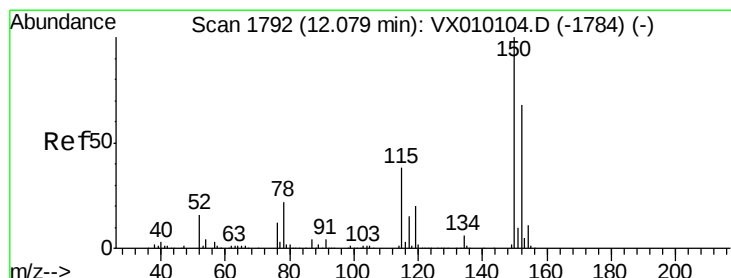
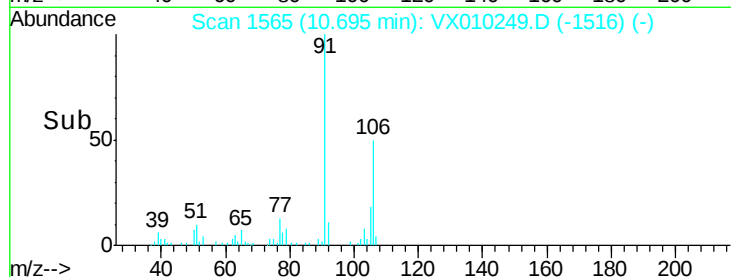
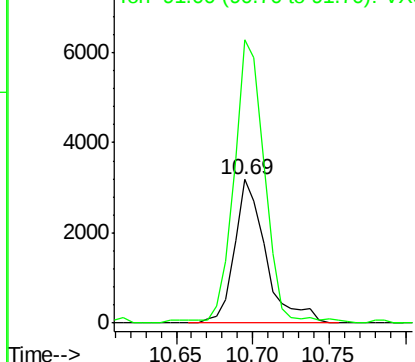
#69
o-Xylene
Concen: 0.760 ug/l
RT: 10.69 min Scan# 1565
Delta R.T. -0.00 min
Lab File: VX010249.D
Acq: 12 Jun 2019 14:38

Instrument :
MSVOA_X
ClientSampleId :
SS043MW011-190611

Tot Ion:106 Resp: 4534
Ion Ratio Lower Upper
106 100
91 192.7 110.4 331.2

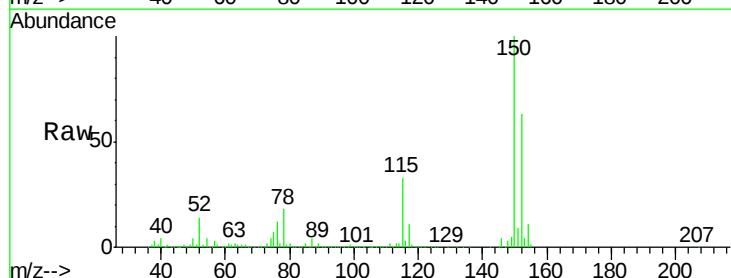


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0

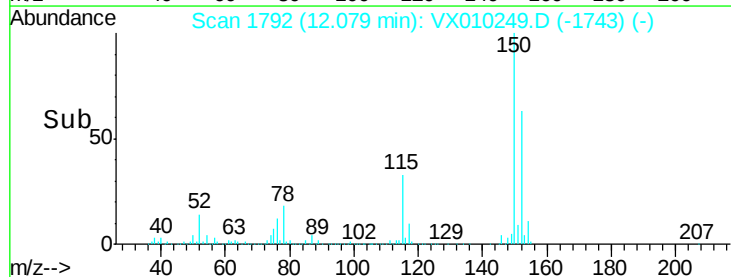
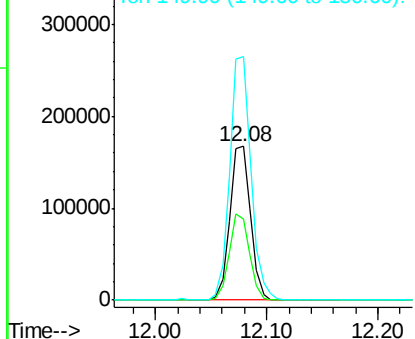


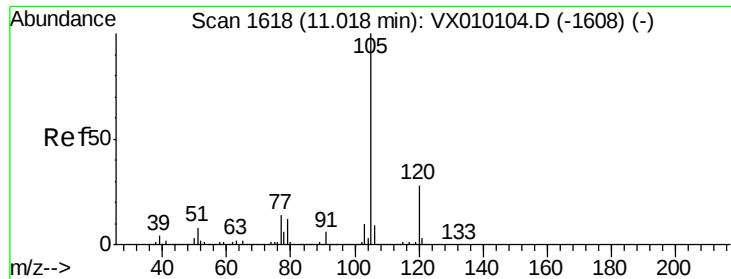
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX010249.D
Acq: 12 Jun 2019 14:38

Tgt Ion:152 Resp: 214434
Ion Ratio Lower Upper
152 100
115 54.4 41.4 124.2
150 161.5 0.0 345.2



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





#73

Isopropylbenzene

Concen: 0.714 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. -0.00 min

Lab File: VX010249.D

Acq: 12 Jun 2019 14:38

Instrument :

MSVOA_X

ClientSampleId :

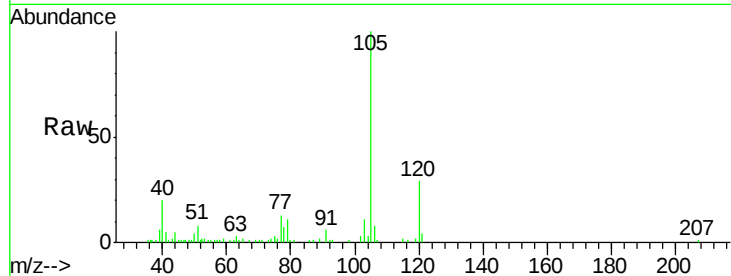
SS043MW011-190611

Tot Ion:105 Resp: 10694

Ion Ratio Lower Upper

105 100

120 28.3 12.8 38.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.02

8000

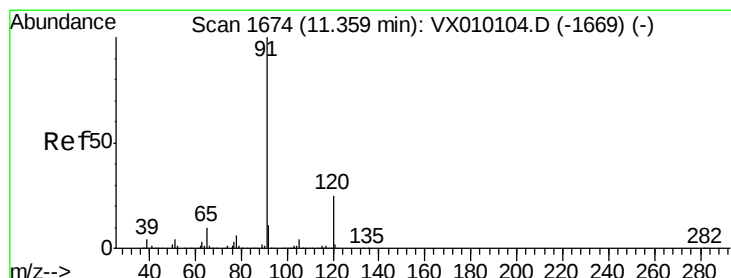
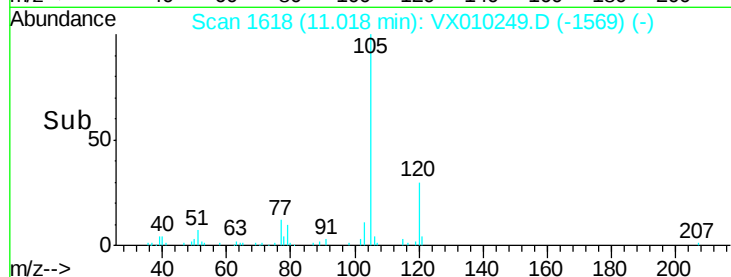
6000

4000

2000

0

Time--> 10.95 11.00 11.05



#78

n-propylbenzene

Concen: 0.490 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. -0.00 min

Lab File: VX010249.D

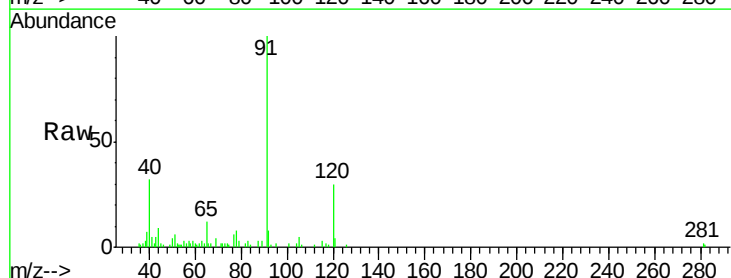
Acq: 12 Jun 2019 14:38

Tgt Ion: 91 Resp: 8174

Ion Ratio Lower Upper

91 100

120 27.7 11.1 33.3



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V

11.36

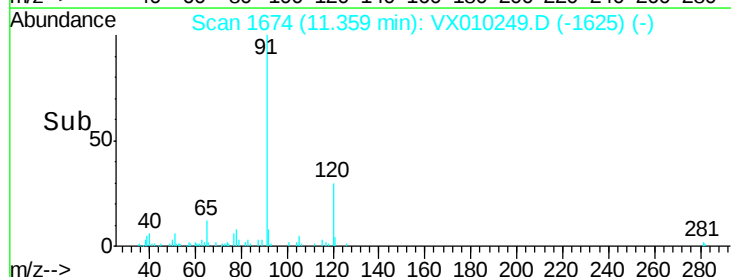
6000

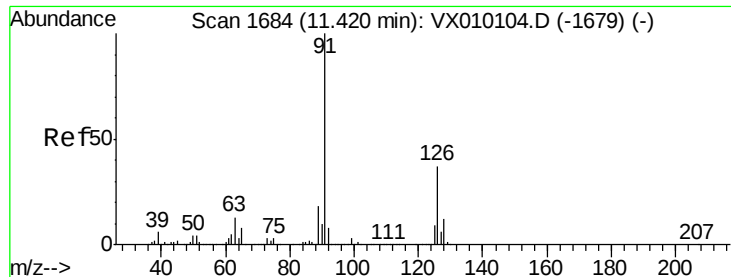
4000

2000

0

Time--> 11.30 11.35 11.40





#79

2-Chlorotoluene

Concen: 0.905 ug/l

RT: 11.42 min Scan# 1684

Delta R.T. -0.00 min

Lab File: VX010249.D

Acq: 12 Jun 2019 14:38

Instrument :

MSVOA_X

ClientSampleId :

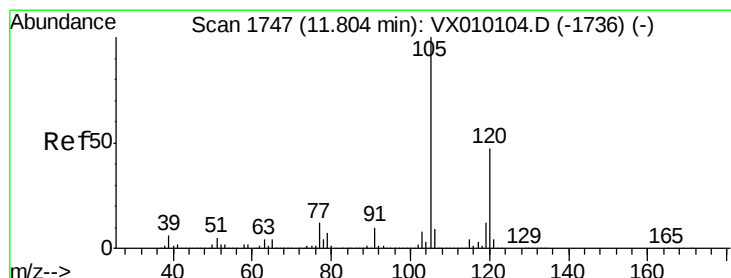
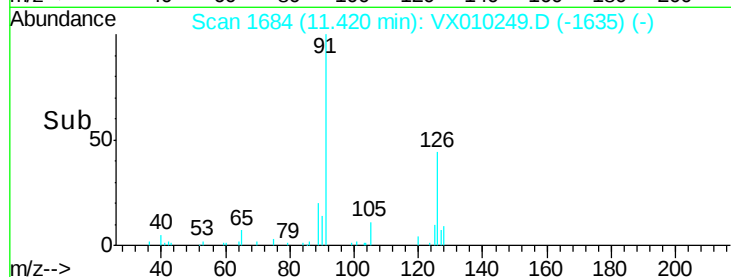
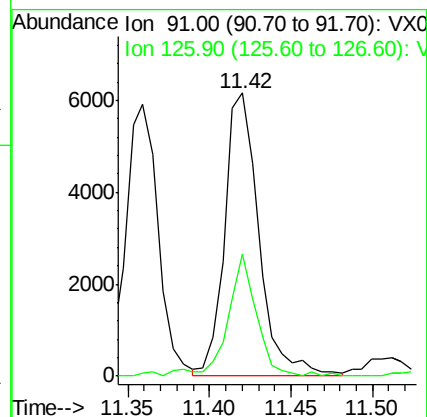
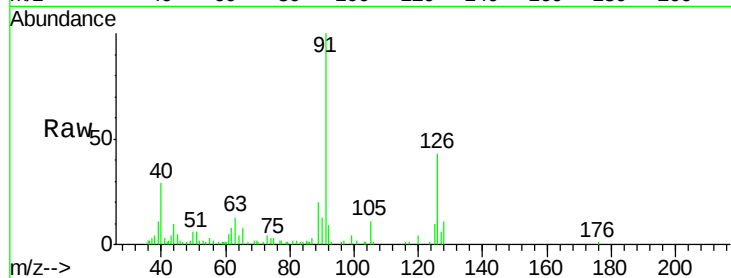
SS043MW011-190611

Tot Ion: 91 Resp: 9054

Ion Ratio Lower Upper

91 100

126 36.1 16.1 48.3



#84

1,2,4-Trimethylbenzene

Concen: 0.695 ug/l

RT: 11.80 min Scan# 1747

Delta R.T. -0.00 min

Lab File: VX010249.D

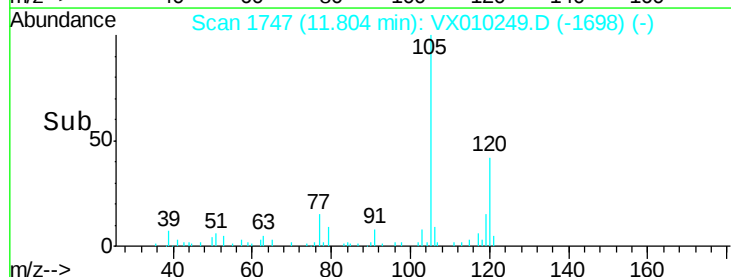
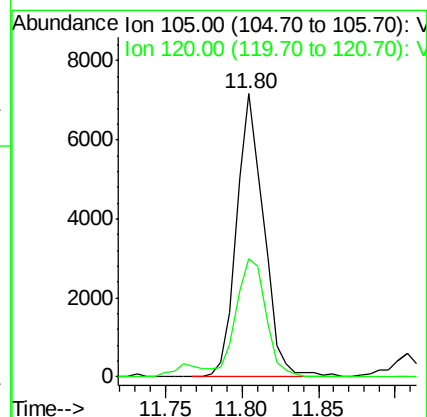
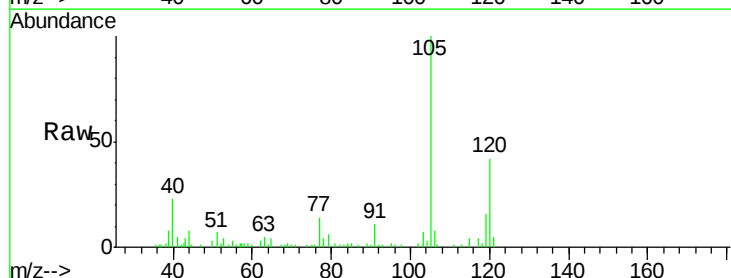
Acq: 12 Jun 2019 14:38

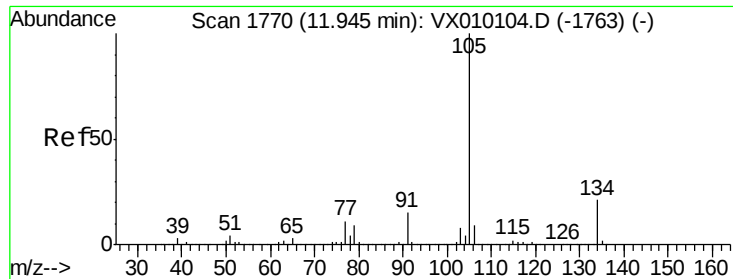
Tgt Ion: 105 Resp: 8855

Ion Ratio Lower Upper

105 100

120 46.2 22.1 66.1





#85

sec-Butylbenzene

Concen: 0.397 ug/l

RT: 11.94 min Scan# 1770

Delta R.T. -0.00 min

Lab File: VX010249.D

Acq: 12 Jun 2019 14:38

Instrument :

MSVOA_X

ClientSampleId :

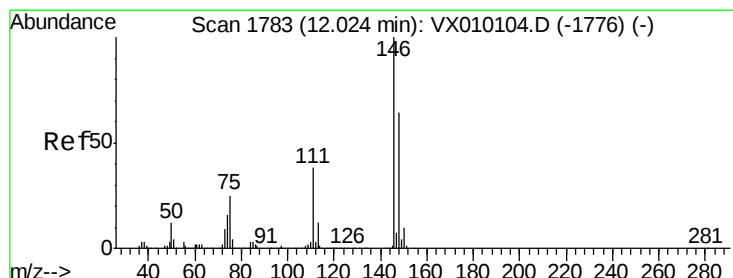
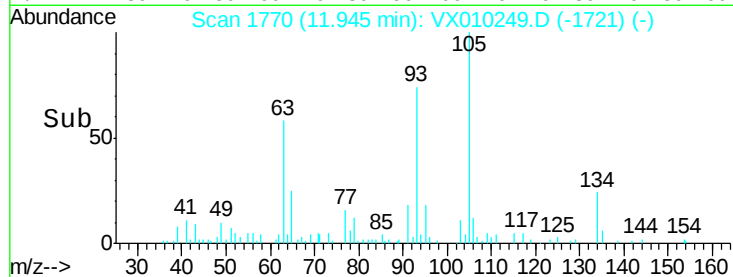
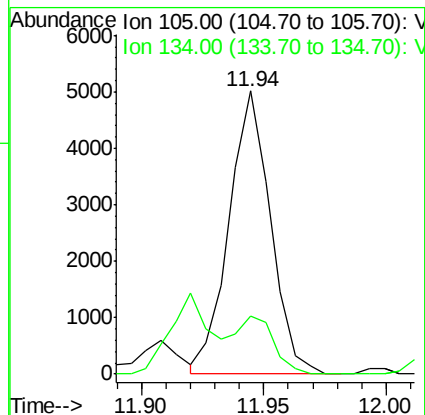
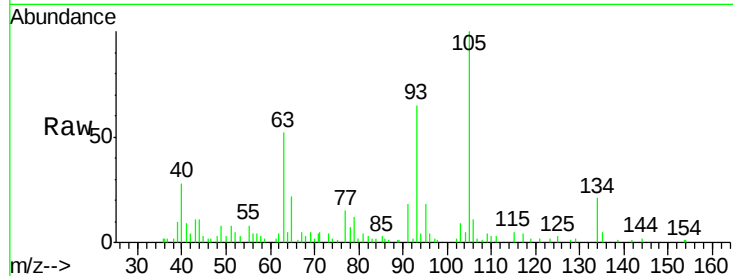
SS043MW011-190611

Tot Ion:105 Resp: 5896

Ion Ratio Lower Upper

105 100

134 18.8 9.7 28.9



#87

1,3-Dichlorobenzene

Concen: 2.162 ug/l

RT: 12.02 min Scan# 1783

Delta R.T. -0.00 min

Lab File: VX010249.D

Acq: 12 Jun 2019 14:38

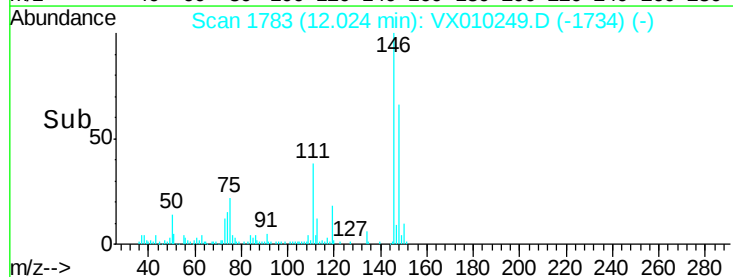
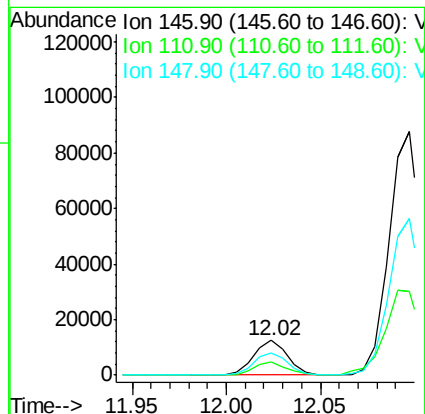
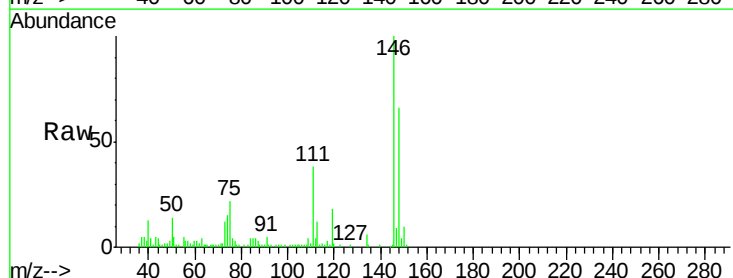
Tgt Ion:146 Resp: 15674

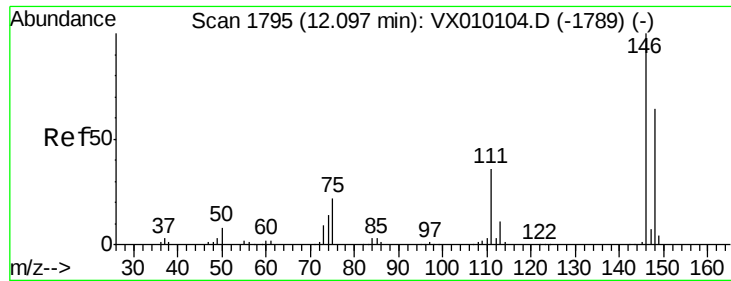
Ion Ratio Lower Upper

146 100

111 37.0 20.1 60.2

148 65.1 31.9 95.5





#88

1,4-Dichlorobenzene

Concen: 14.752 ug/l

RT: 12.10 min Scan# 1795

Delta R.T. -0.00 min

Lab File: VX010249.D

Acq: 12 Jun 2019 14:38

Instrument :

MSVOA_X

ClientSampleId :

SS043MW011-190611

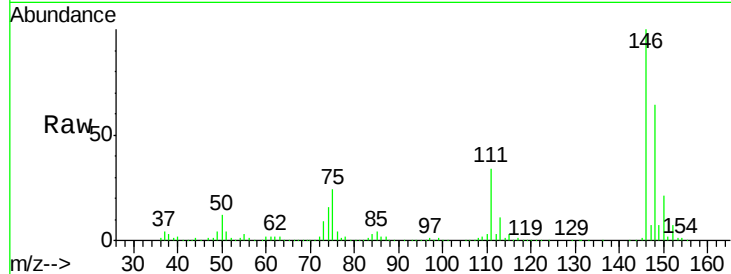
Tot Ion:146 Resp: 107822

Ion Ratio Lower Upper

146 100

111 38.1 20.0 59.9

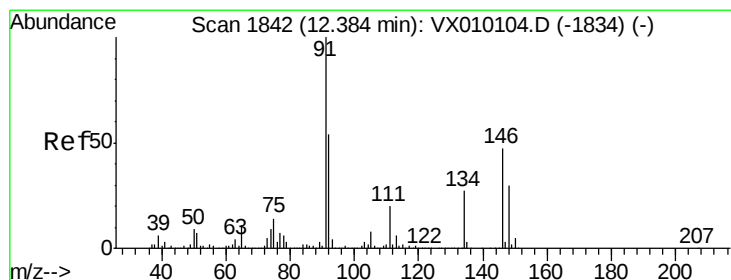
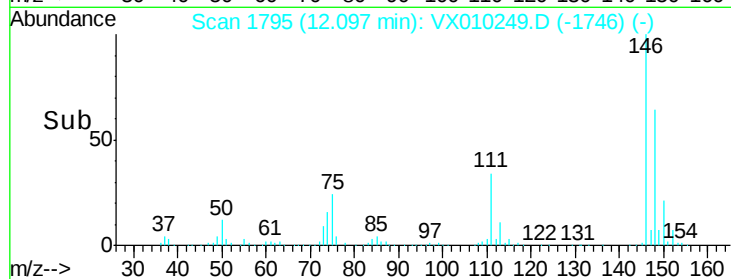
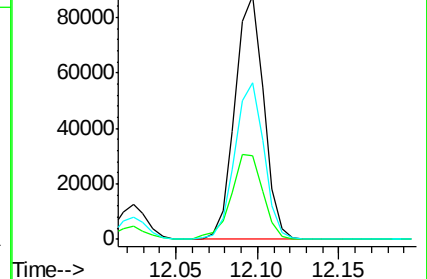
148 65.0 32.3 96.9



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#89

n-Butylbenzene

Concen: 0.389 ug/l

RT: 12.38 min Scan# 1842

Delta R.T. -0.00 min

Lab File: VX010249.D

Acq: 12 Jun 2019 14:38

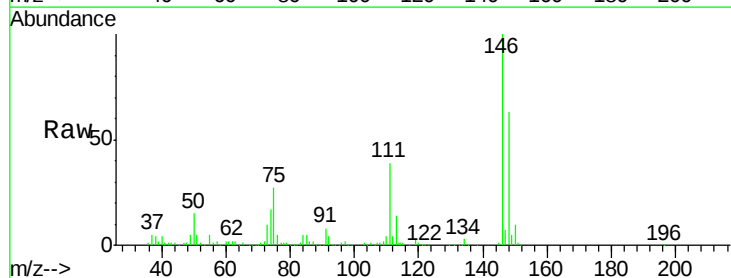
Tgt Ion: 91 Resp: 4555

Ion Ratio Lower Upper

91 100

92 43.6 26.3 78.8

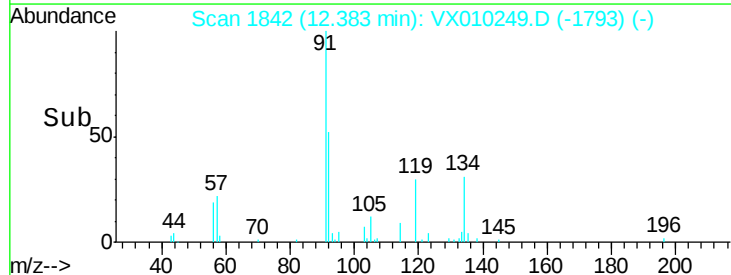
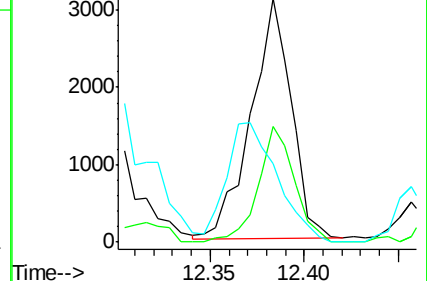
134 63.0 12.3 36.8#

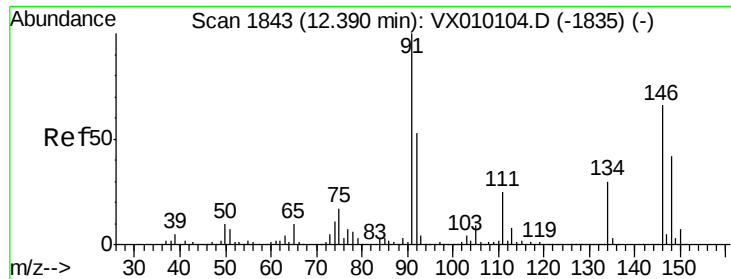


Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 92.00 (91.70 to 92.70): VX0

Ion 134.00 (133.70 to 134.70): V





#91

1,2-Dichlorobenzene

Concen: 8.110 ug/l

RT: 12.39 min Scan# 1843

Delta R.T. -0.00 min

Lab File: VX010249.D

Acq: 12 Jun 2019 14:38

Instrument :

MSVOA_X

ClientSampleId :

SS043MW011-190611

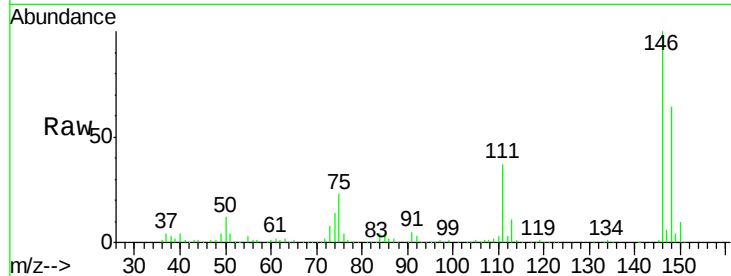
Tot Ion:146 Resp: 57167

Ion Ratio Lower Upper

146 100

111 37.4 21.1 63.1

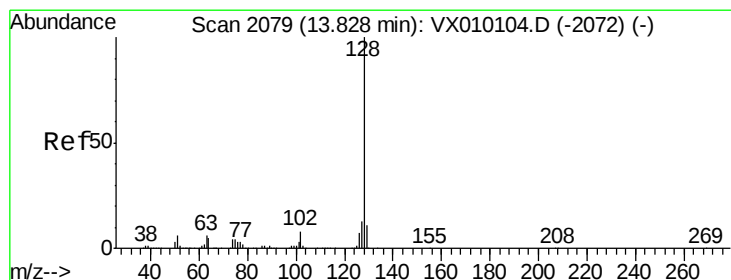
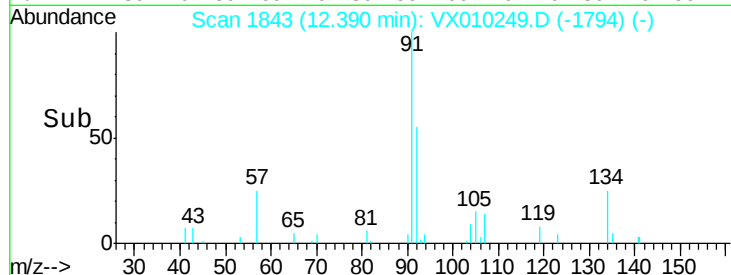
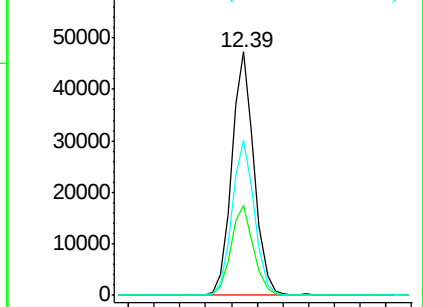
148 63.9 32.3 96.8



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#95

Naphthalene

Concen: 0.373 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.01 min

Lab File: VX010249.D

Acq: 12 Jun 2019 14:38

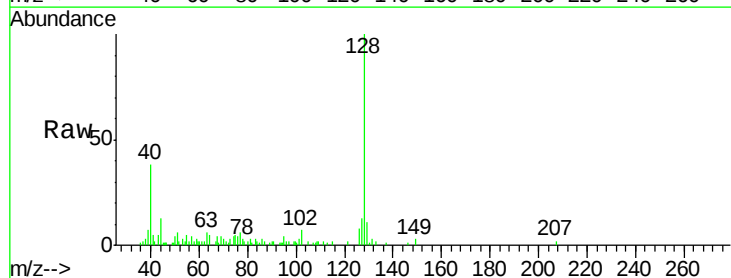
Tgt Ion:128 Resp: 6056

Ion Ratio Lower Upper

128 100

127 16.0 10.6 16.0#

129 14.6 8.8 13.2#



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

