

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX121418\
 Data File : VX006544.D
 Acq On : 15 Dec 2018 05:14
 Operator : JC/MD
 Sample : J6398-04
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PR-MW-05_121218

Quant Time: Dec 15 22:54:55 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	648355	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	1044310	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	957743	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	461888	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	355264	53.68	ug/l	0.00
Spiked Amount 50.000			Recovery =	107.36%		
35) Dibromofluoromethane	5.51	113	311649	46.09	ug/l	0.00
Spiked Amount 50.000			Recovery =	92.18%		
50) Toluene-d8	8.71	98	1234107	50.18	ug/l	0.00
Spiked Amount 50.000			Recovery =	100.36%		
62) 4-Bromofluorobenzene	11.13	95	452846	48.86	ug/l	0.00
Spiked Amount 50.000			Recovery =	97.72%		

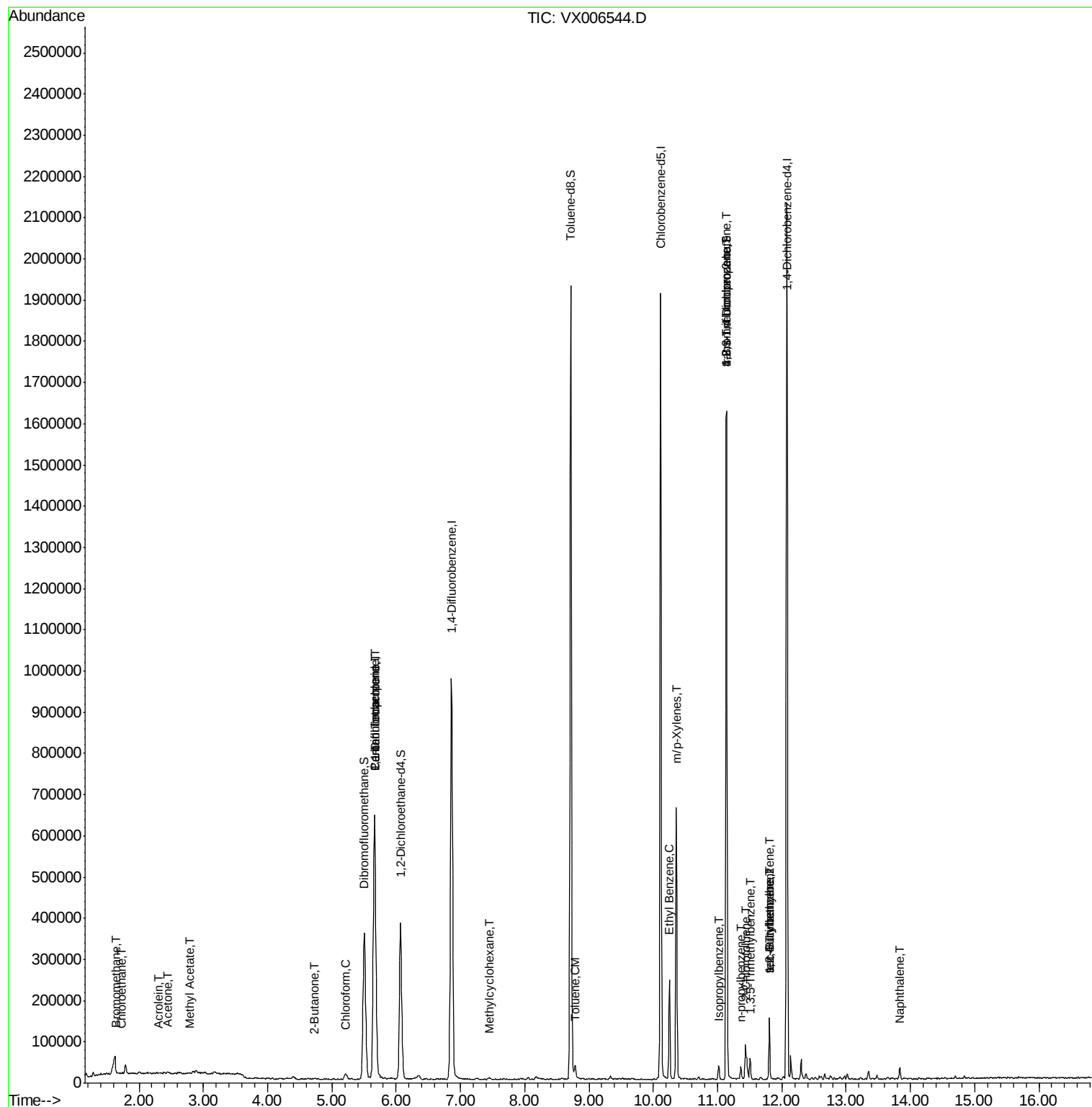
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	1377	0.283	ug/l #	67
6) Chloroethane	1.72	64	1144	0.266	ug/l #	42
13) Acrolein	2.30	56	354	0.358	ug/l #	13
16) Acetone	2.44	43	4123	1.327	ug/l	92
18) Methyl Acetate	2.78	43	2299	0.221	ug/l #	58
25) 2-Butanone	4.72	43	968	0.218	ug/l	97
30) Chloroform	5.21	83	14891	1.370	ug/l	92
36) 1,1-Dichloropropene	5.66	75	43300	4.924	ug/l #	50
38) Carbon Tetrachloride	5.66	117	61138	5.910	ug/l #	17
39) Methylcyclohexane	7.45	83	2387	0.209	ug/l #	60
52) Toluene	8.79	92	10636	0.614	ug/l	97
67) Ethyl Benzene	10.25	91	143716	4.250	ug/l	98
68) m/p-Xylenes	10.36	106	165618	12.227	ug/l	99
73) Isopropylbenzene	11.02	105	17503	0.549	ug/l	96
76) 1,2,3-Trichloropropane	11.13	75	212289	23.812	ug/l #	38
78) n-propylbenzene	11.36	91	13581	0.383	ug/l	97
79) 2-Chlorotoluene	11.43	91	7706	0.366	ug/l #	40
80) 1,3,5-Trimethylbenzene	11.51	105	21564	0.813	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.13	75	212289	55.880	ug/l #	15
83) tert-Butylbenzene	11.81	119	8592	0.303	ug/l #	52
84) 1,2,4-Trimethylbenzene	11.80	105	66349	2.421	ug/l	97
85) sec-Butylbenzene	11.80	105	66349	2.060	ug/l #	55
95) Naphthalene	13.83	128	18141	0.511	ug/l	99

(#) = 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. 0.00 min

Lab File: VX006544.D

Acq: 15 Dec 2018 05:14

Instrument :

MSVOA_X

ClientSampleId :

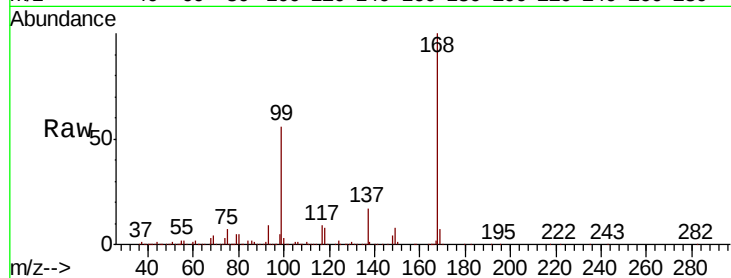
PR-MW-05_121218

Tgt Ion:168 Resp: 648355

Ion Ratio Lower Upper

168 100

99 56.4 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

250000

200000

150000

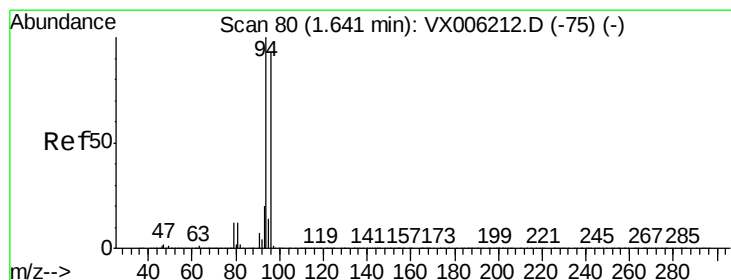
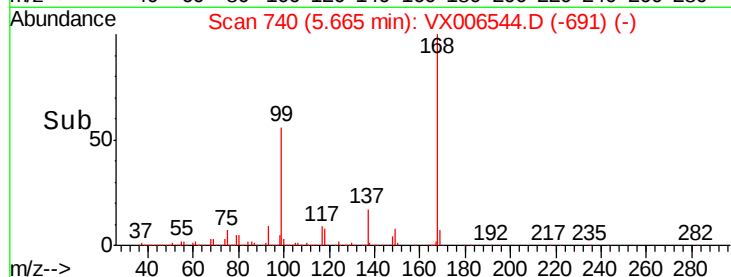
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.283 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX006544.D

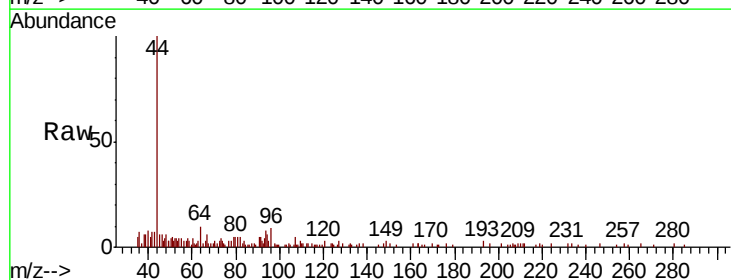
Acq: 15 Dec 2018 05:14

Tgt Ion: 94 Resp: 1377

Ion Ratio Lower Upper

94 100

96 61.2 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

800

600

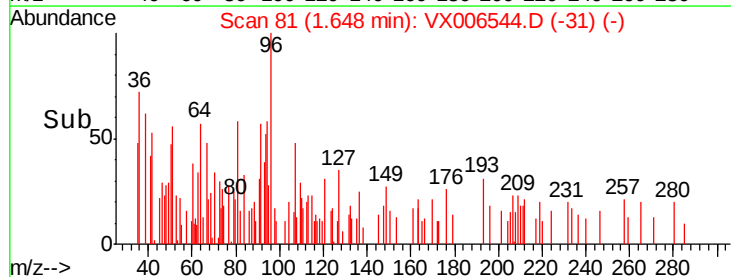
400

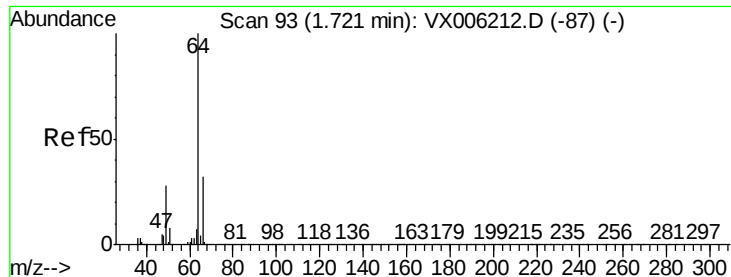
200

0

Time-->

1.65 1.70





#6

Chloroethane

Concen: 0.266 ug/l

RT: 1.72 min Scan# 93

Delta R.T. 0.00 min

Lab File: VX006544.D

Acq: 15 Dec 2018 05:14

Instrument :

MSVOA_X

ClientSampleId :

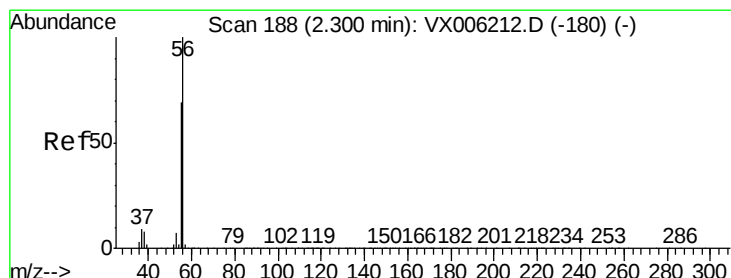
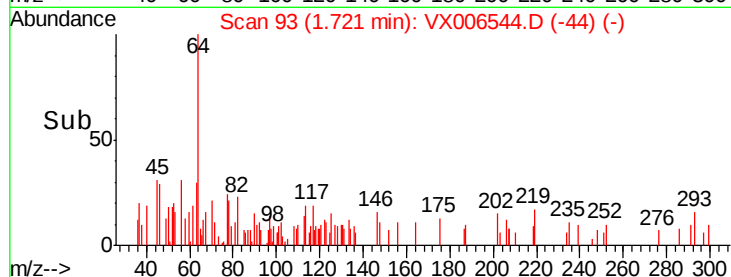
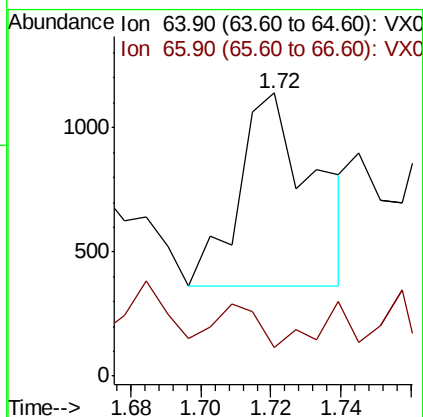
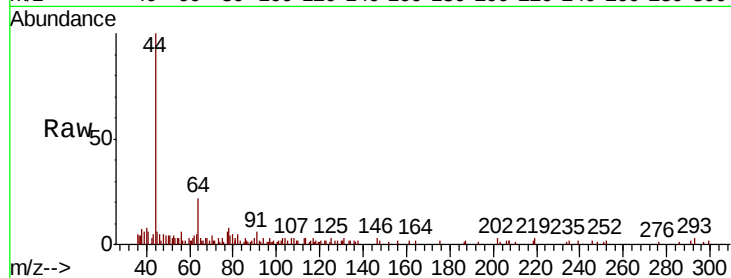
PR-MW-05_121218

Tgt Ion: 64 Resp: 1144

Ion Ratio Lower Upper

64 100

66 0.0 25.9 38.9#



#13

Acrolein

Concen: 0.358 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.00 min

Lab File: VX006544.D

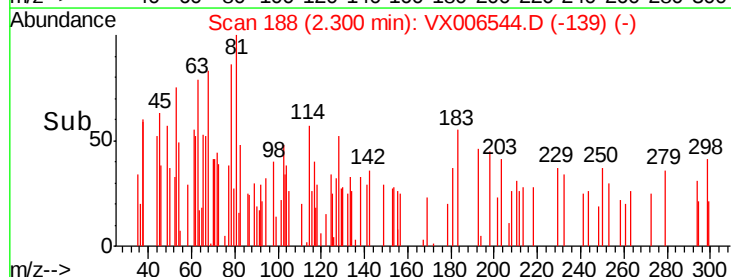
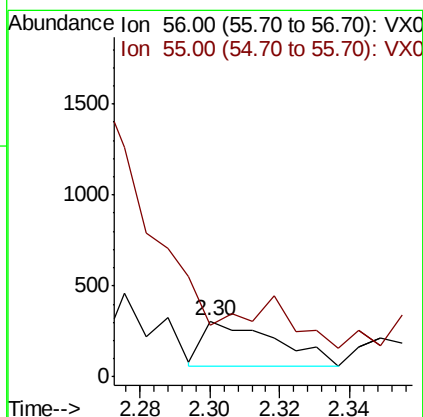
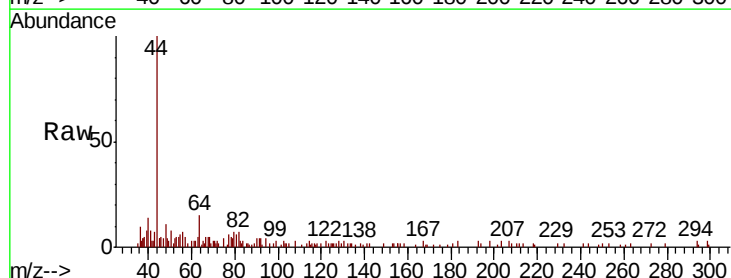
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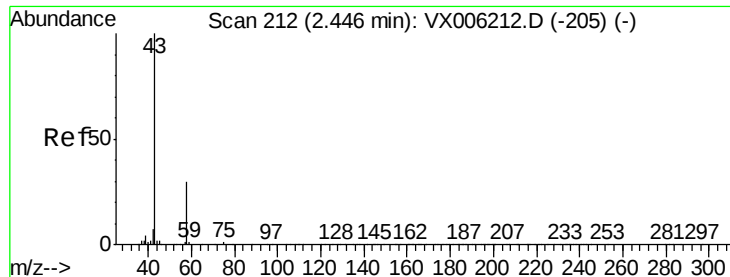
Tgt Ion: 56 Resp: 354

Ion Ratio Lower Upper

56 100

55 0.0 57.8 86.6#





#16

Acetone

Concen: 1.327 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX006544.D

Acq: 15 Dec 2018 05:14

Instrument :

MSVOA_X

ClientSampleId :

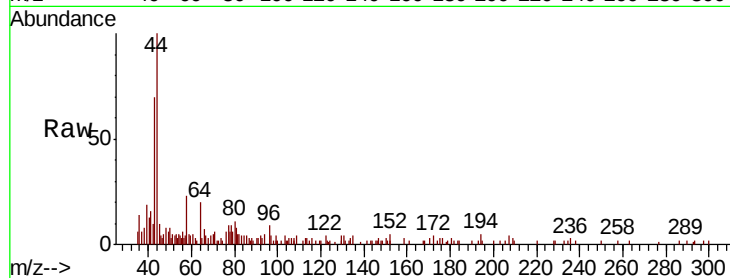
PR-MW-05_121218

Tgt Ion: 43 Resp: 4123

Ion Ratio Lower Upper

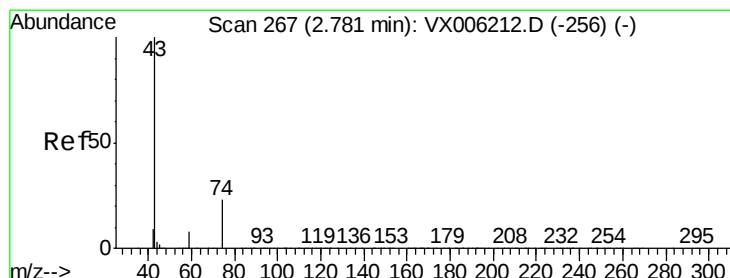
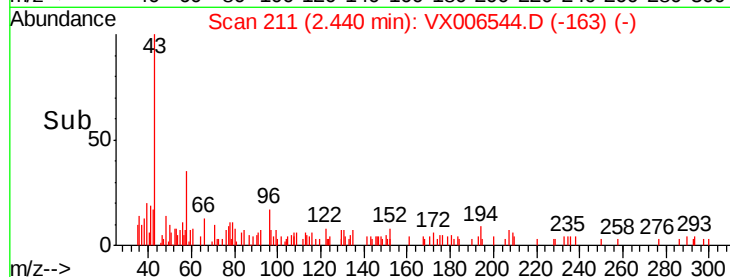
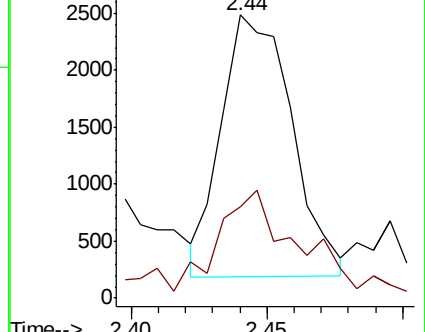
43 100

58 25.6 24.0 36.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 0.221 ug/l

RT: 2.78 min Scan# 267

Delta R.T. 0.00 min

Lab File: VX006544.D

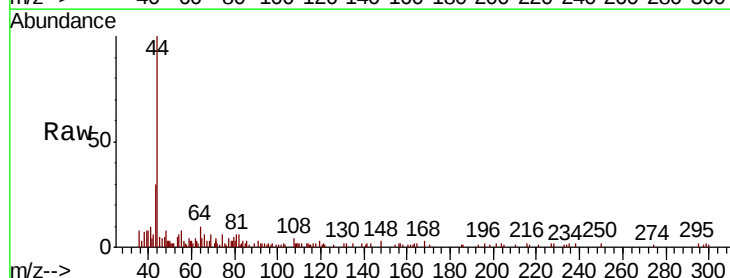
Acq: 15 Dec 2018 05:14

Tgt Ion: 43 Resp: 2299

Ion Ratio Lower Upper

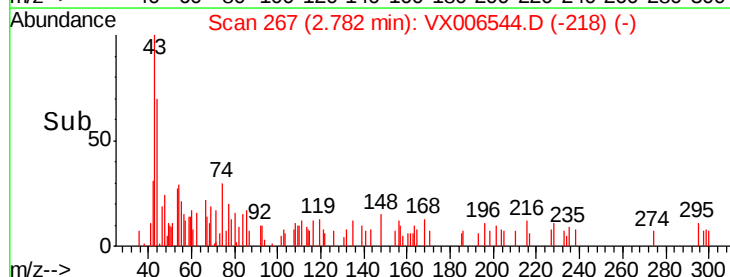
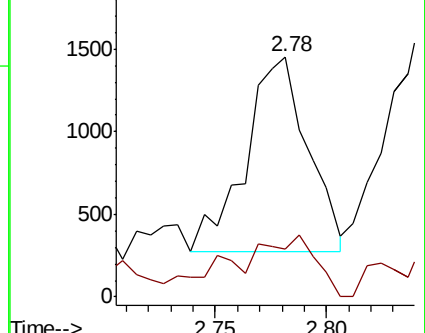
43 100

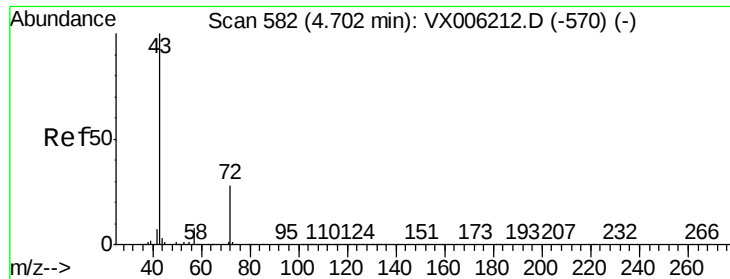
74 42.5 17.9 26.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

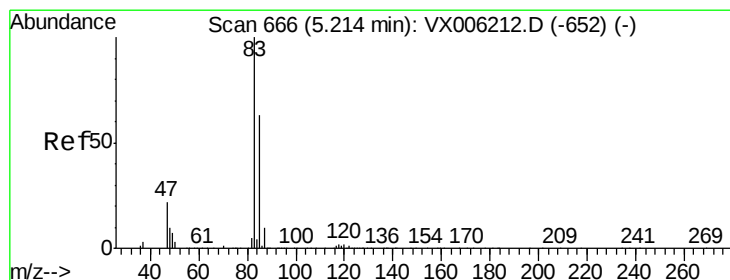
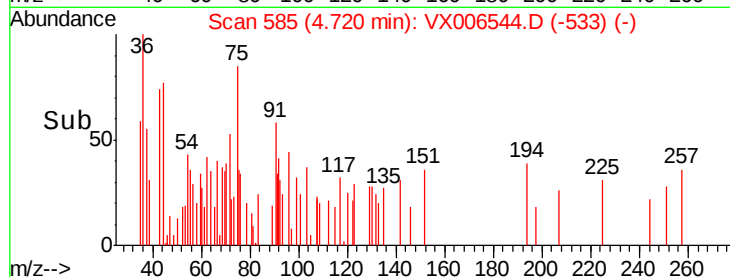
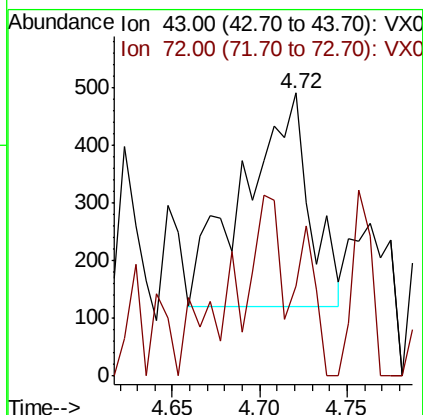
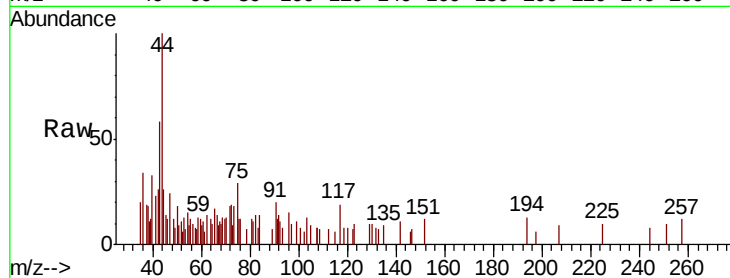




#25
2-Butanone
Concen: 0.218 ug/l
RT: 4.72 min Scan# 585
Delta R.T. 0.02 min
Lab File: VX006544.D
Acq: 15 Dec 2018 05:14

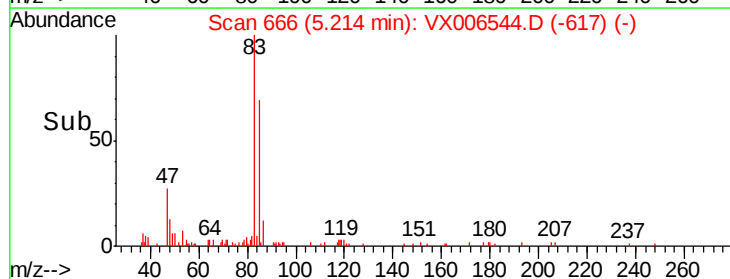
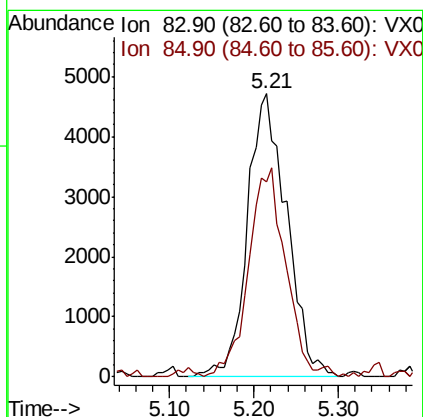
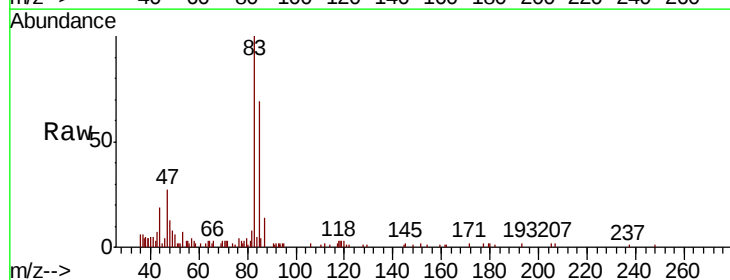
Instrument :
MSVOA_X
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PR-MW-05_121218

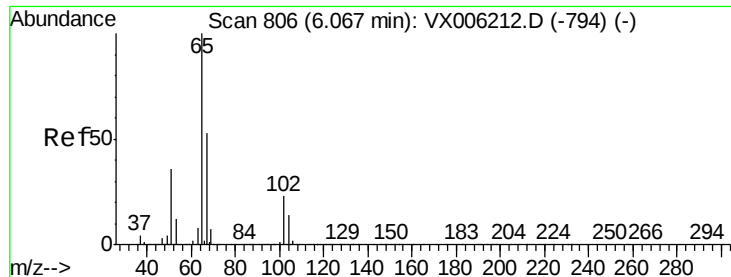
Tgt Ion: 43 Resp: 968
Ion Ratio Lower Upper
43 100
72 26.5 22.6 33.8



#30
Chloroform
Concen: 1.370 ug/l
RT: 5.21 min Scan# 666
Delta R.T. 0.00 min
Lab File: VX006544.D
Acq: 15 Dec 2018 05:14

Tgt Ion: 83 Resp: 14891
Ion Ratio Lower Upper
83 100
85 68.7 50.3 75.5

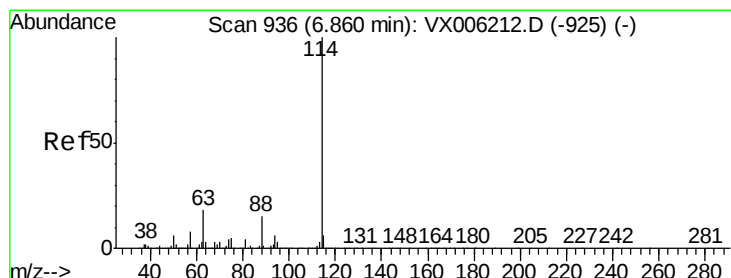
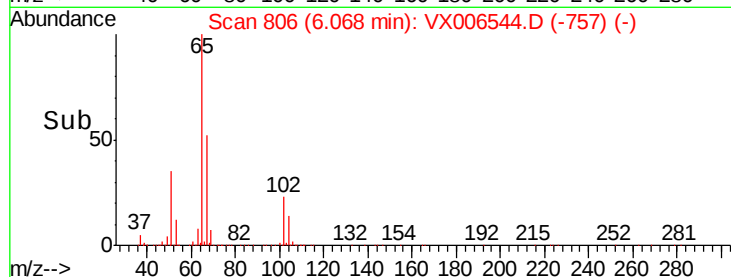
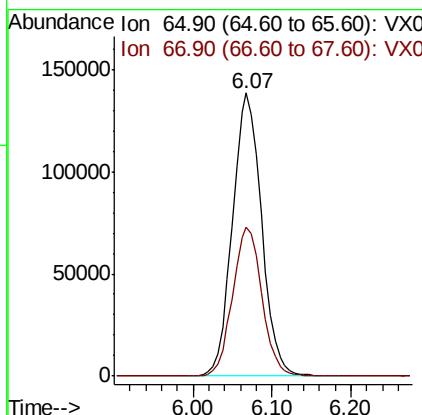
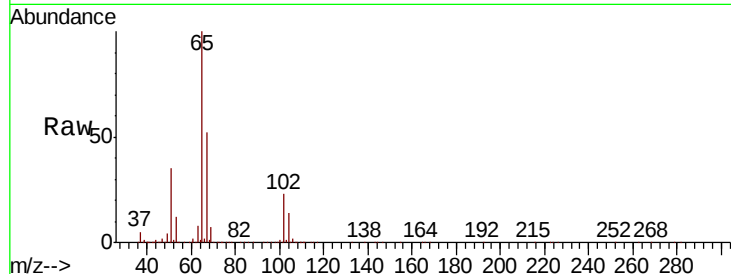




#33
 1,2-Dichloroethane-d4
 Concen: 53.676 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. 0.00 min
 Lab File: VX006544.D
 Acq: 15 Dec 2018 05:14

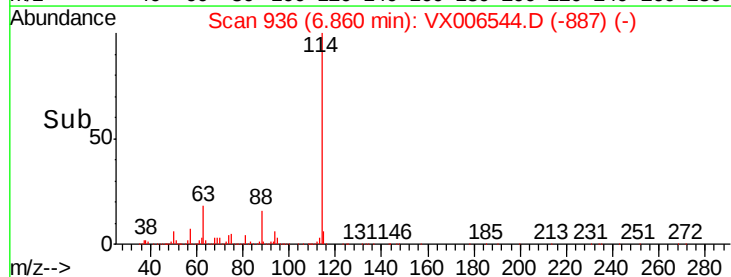
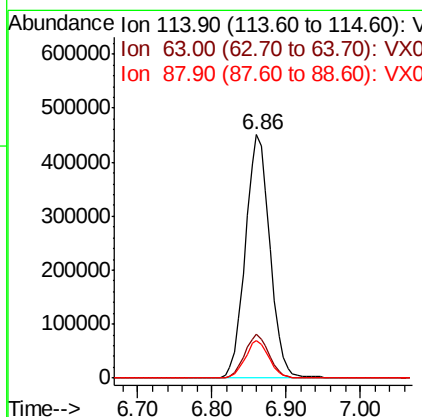
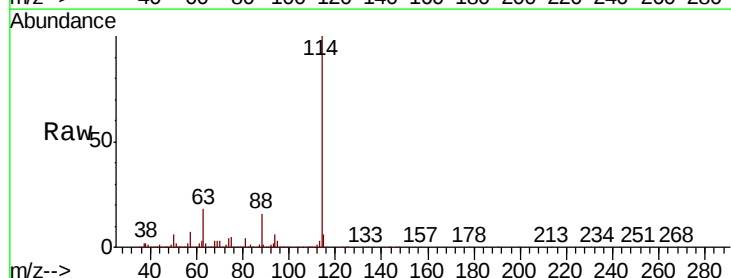
Instrument :
 MSVOA_X
 ClientSampleId :
 PR-MW-05_121218

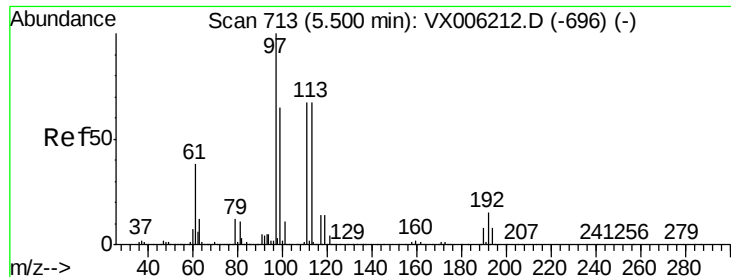
Tgt Ion: 65 Resp: 355264
 Ion Ratio Lower Upper
 65 100
 67 52.8 0.0 107.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX006544.D
 Acq: 15 Dec 2018 05:14

Tgt Ion: 114 Resp: 1044310
 Ion Ratio Lower Upper
 114 100
 63 18.0 0.0 36.6
 88 15.5 0.0 29.0





#35

Dibromofluoromethane

Concen: 46.092 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX006544.D

Acq: 15 Dec 2018 05:14

Instrument :
MSVOA_X
ClientSampleId :
PR-MW-05_121218

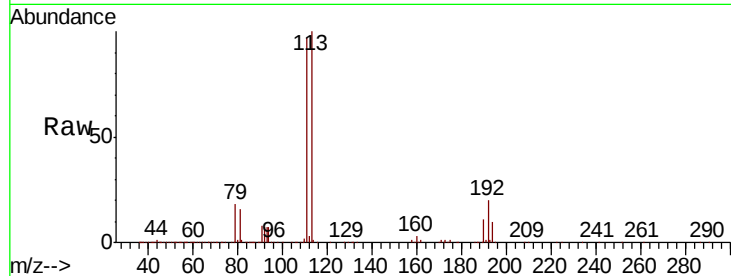
Tgt Ion:113 Resp: 311649

Ion Ratio Lower Upper

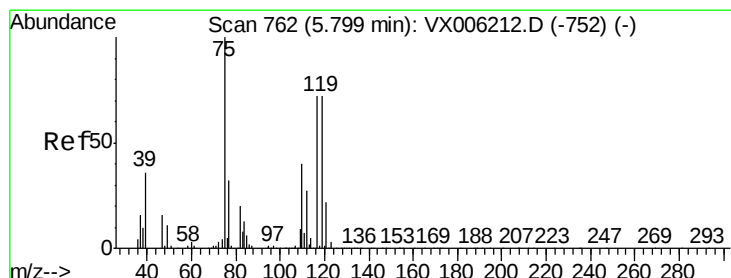
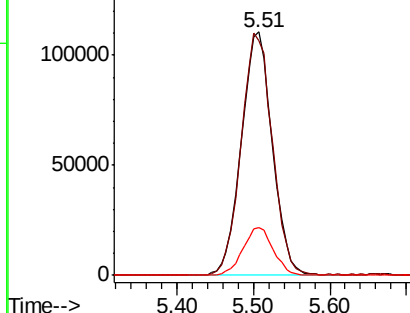
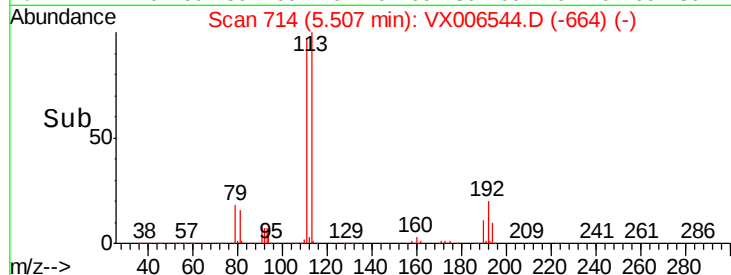
113 100

111 100.0 81.1 121.7

192 19.3 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: 4.924 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX006544.D

Acq: 15 Dec 2018 05:14

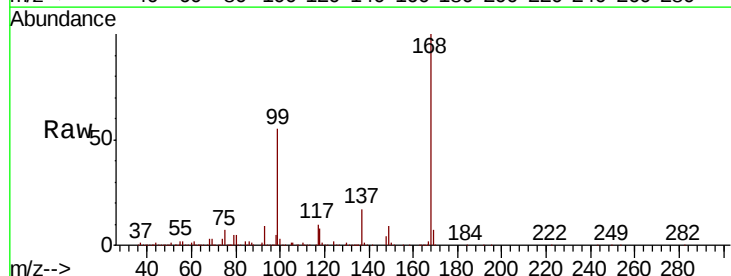
Tgt Ion: 75 Resp: 43300

Ion Ratio Lower Upper

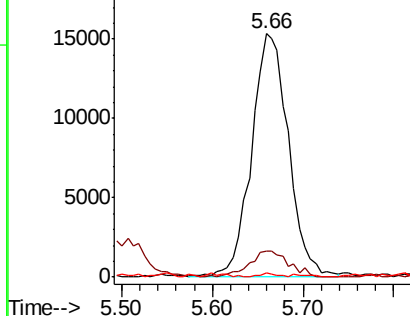
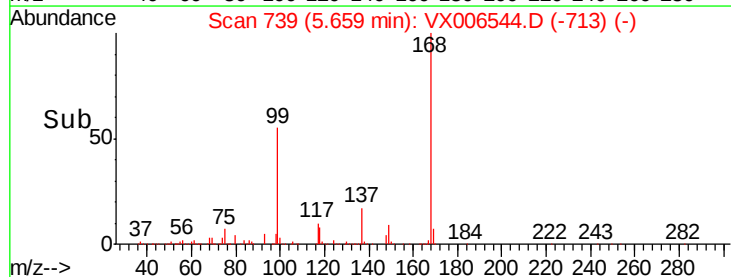
75 100

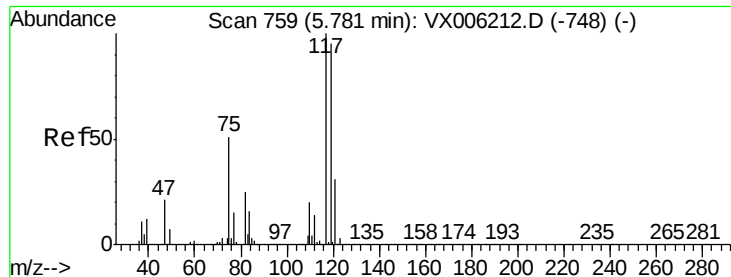
110 11.6 20.4 61.3#

77 0.8 24.9 37.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.910 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX006544.D

Acq: 15 Dec 2018 05:14

Instrument :

MSVOA_X

ClientSampleId :

PR-MW-05_121218

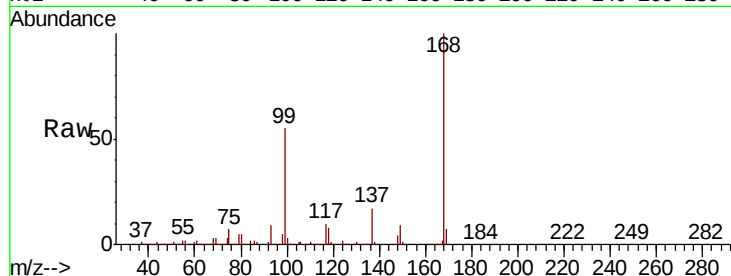
Tgt Ion:117 Resp: 61138

Ion Ratio Lower Upper

117 100

119 6.1 75.8 113.8#

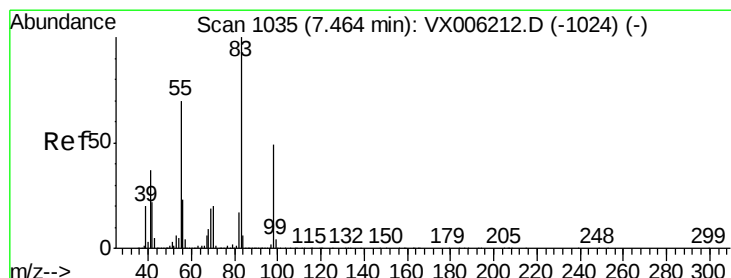
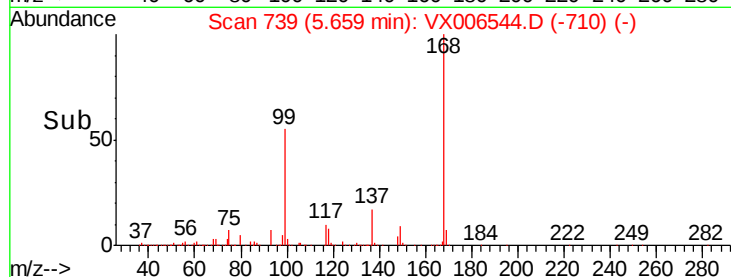
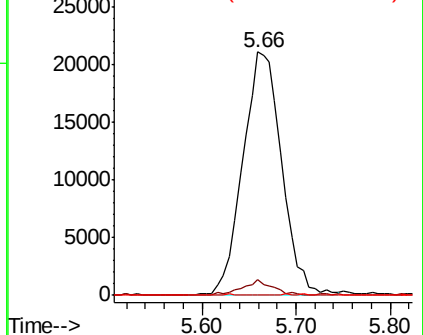
121 0.4 24.6 37.0#



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



#39

Methylcyclohexane

Concen: 0.209 ug/l

RT: 7.45 min Scan# 1033

Delta R.T. -0.01 min

Lab File: VX006544.D

Acq: 15 Dec 2018 05:14

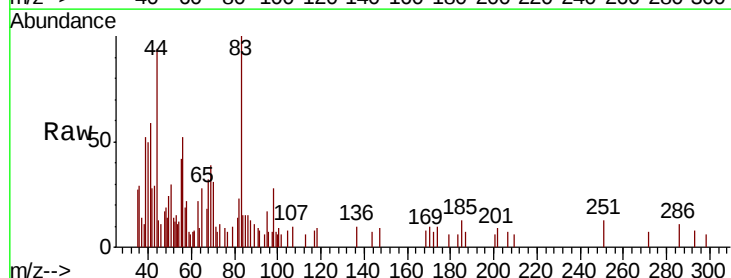
Tgt Ion: 83 Resp: 2387

Ion Ratio Lower Upper

83 100

55 32.4 56.4 84.6#

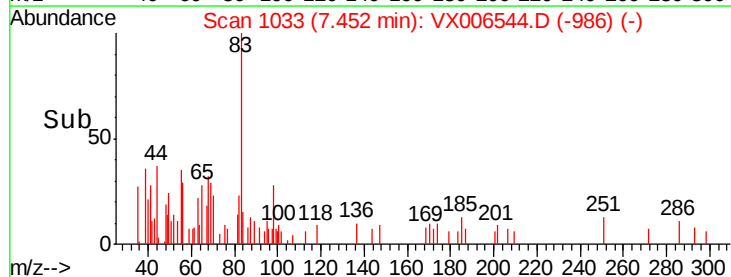
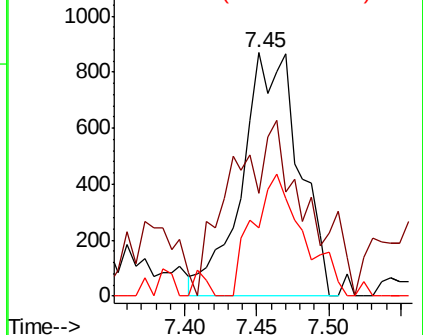
98 27.8 39.0 58.6#

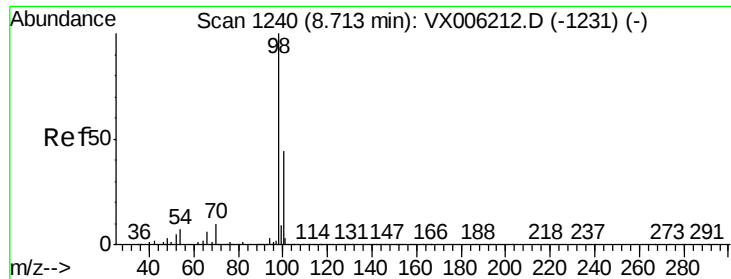


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#50

Toluene-d8

Concen: 50.178 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX006544.D

Acq: 15 Dec 2018 05:14

Instrument :

MSVOA_X

ClientSampleId :

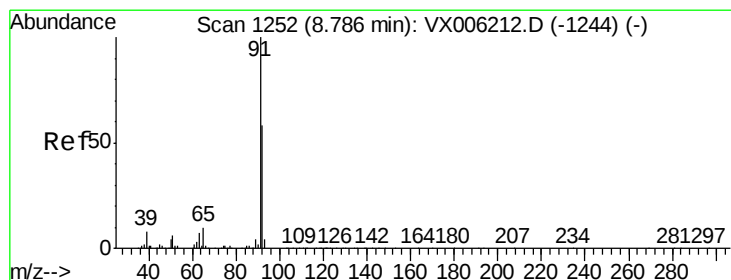
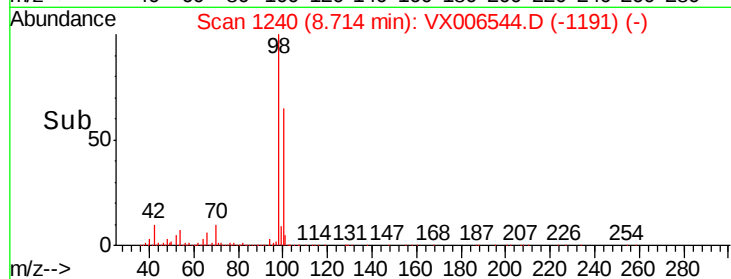
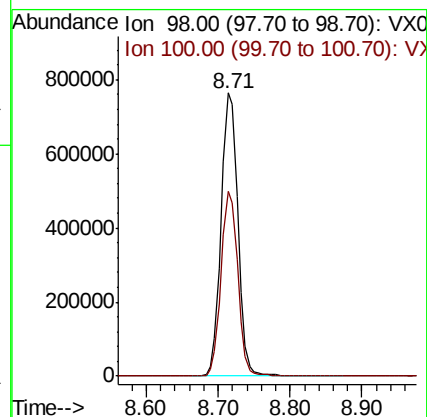
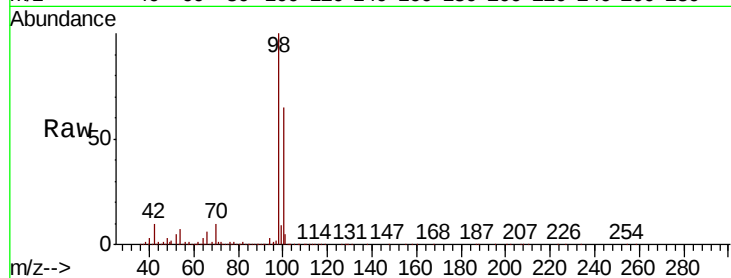
PR-MW-05_121218

Tgt Ion: 98 Resp: 1234107

Ion Ratio Lower Upper

98 100

100 65.1 52.2 78.2



#52

Toluene

Concen: 0.614 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. 0.00 min

Lab File: VX006544.D

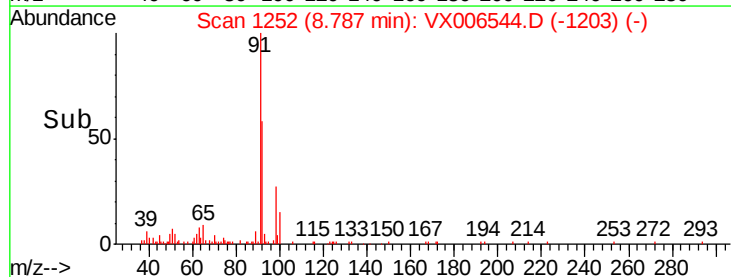
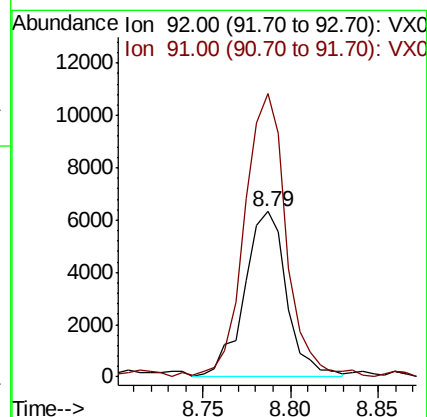
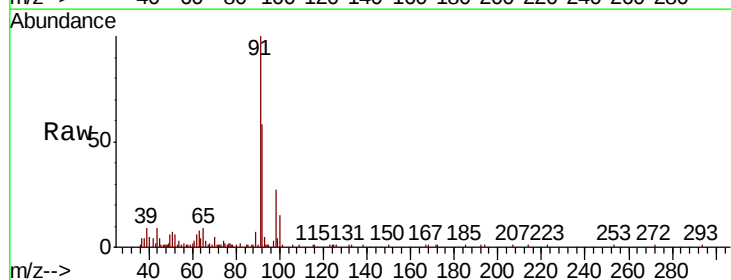
Acq: 15 Dec 2018 05:14

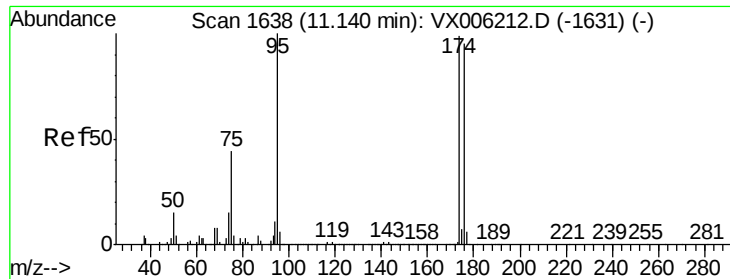
Tgt Ion: 92 Resp: 10636

Ion Ratio Lower Upper

92 100

91 170.1 139.2 208.8





#62

4-Bromofluorobenzene

Concen: 48.862 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.01 min

Lab File: VX006544.D

Acq: 15 Dec 2018 05:14

Instrument :

MSVOA_X

ClientSampleId :

PR-MW-05_121218

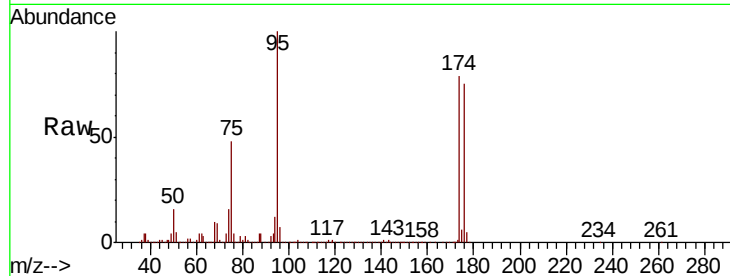
Tgt Ion: 95 Resp: 452846

Ion Ratio Lower Upper

95 100

174 84.5 0.0 187.0

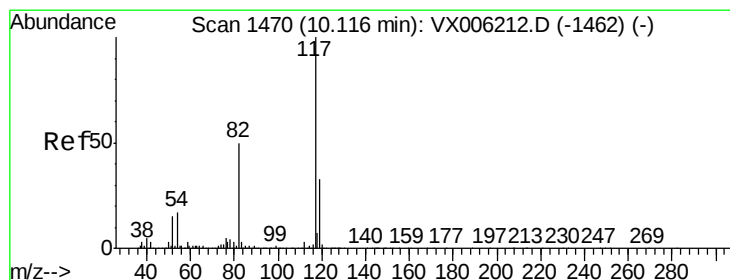
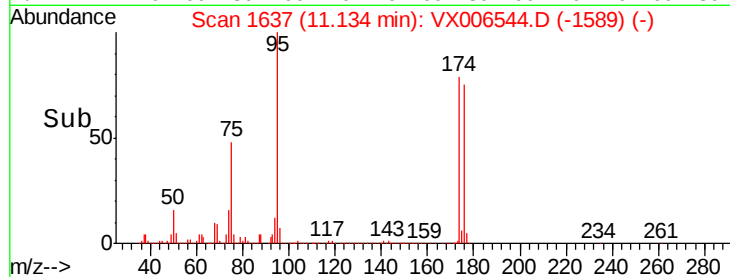
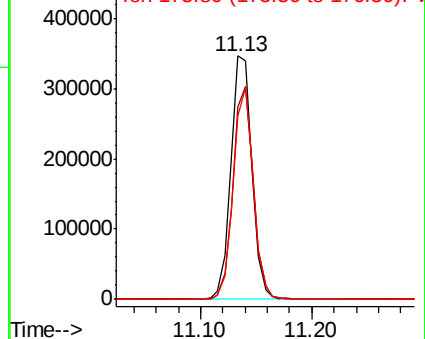
176 82.8 0.0 181.8



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: VX006544.D

Acq: 15 Dec 2018 05:14

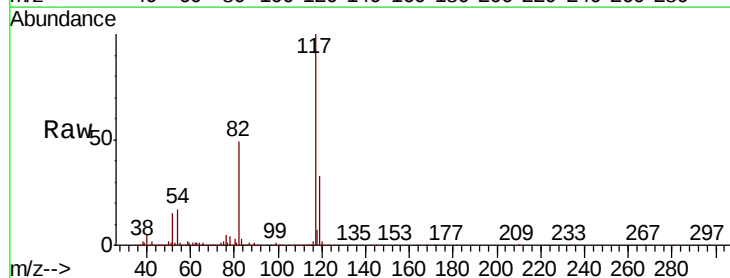
Tgt Ion: 117 Resp: 957743

Ion Ratio Lower Upper

117 100

82 49.0 39.6 59.4

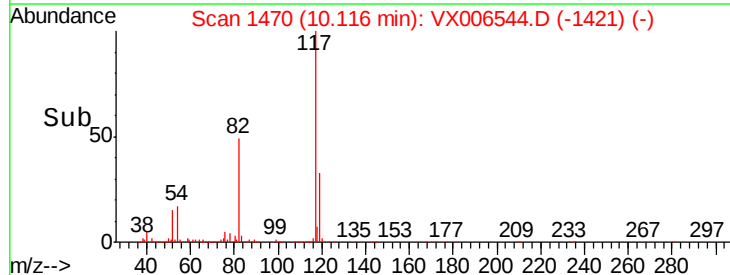
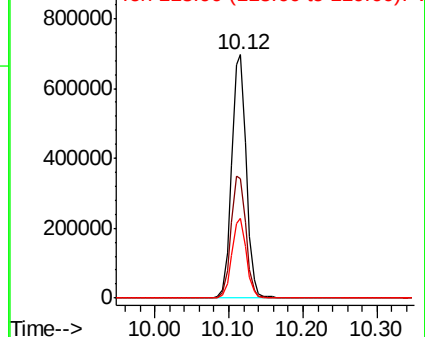
119 32.7 26.3 39.5

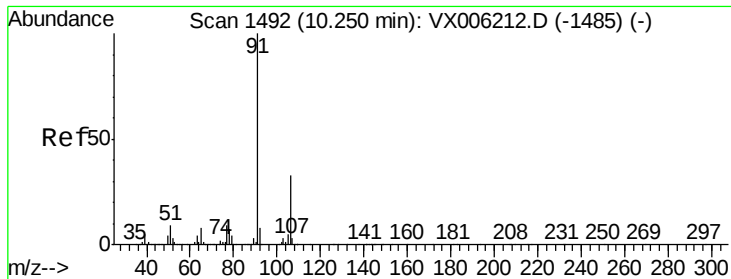


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#67

Ethyl Benzene

Concen: 4.250 ug/l

RT: 10.25 min Scan# 1492

Delta R.T. 0.00 min

Lab File: VX006544.D

Acq: 15 Dec 2018 05:14

Instrument :

MSVOA_X

ClientSampleId :

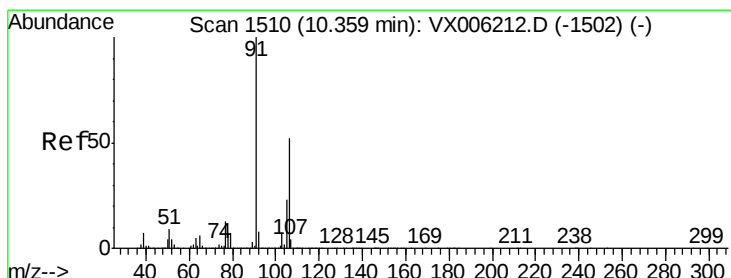
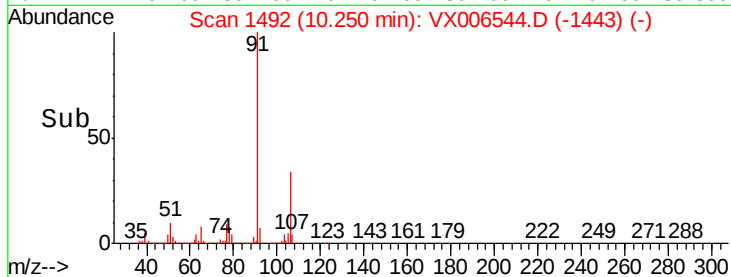
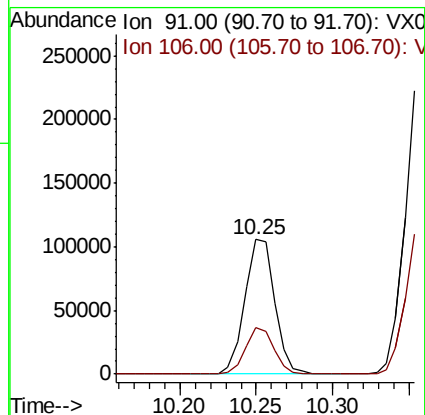
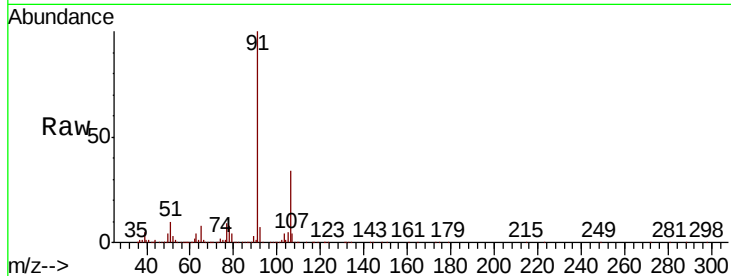
PR-MW-05_121218

Tgt Ion: 91 Resp: 143716

Ion Ratio Lower Upper

91 100

106 34.2 26.5 39.7



#68

m/p-Xylenes

Concen: 12.227 ug/l

RT: 10.36 min Scan# 1510

Delta R.T. 0.00 min

Lab File: VX006544.D

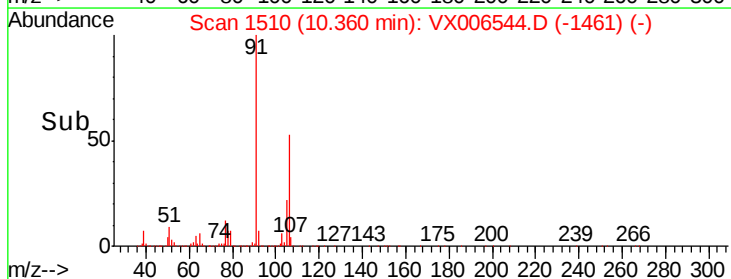
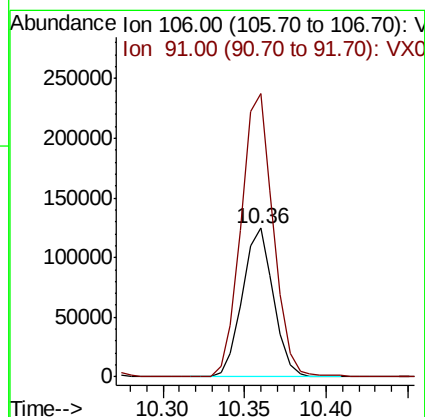
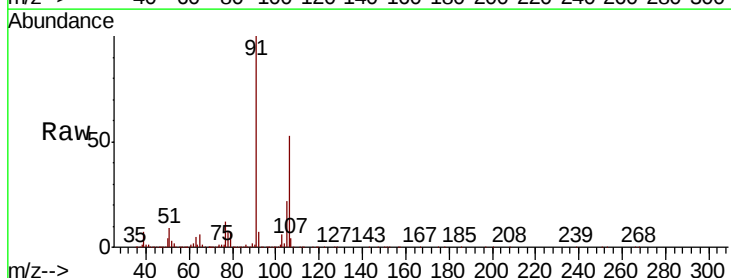
Acq: 15 Dec 2018 05:14

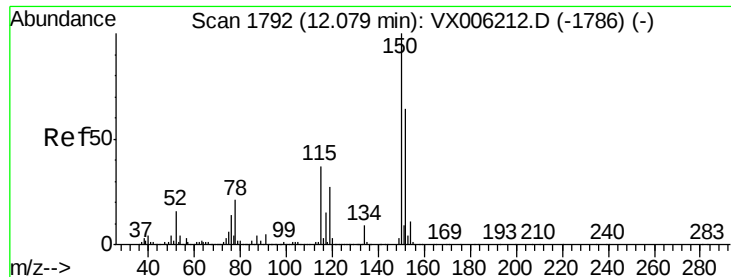
Tgt Ion: 106 Resp: 165618

Ion Ratio Lower Upper

106 100

91 196.1 155.2 232.8

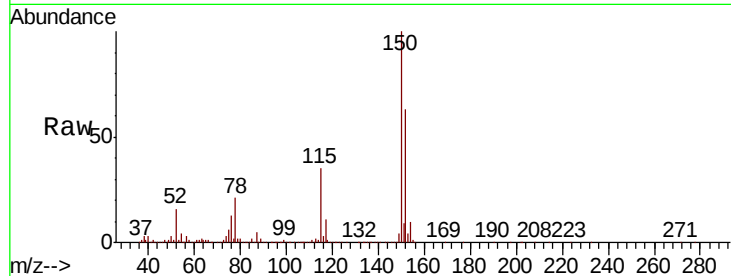




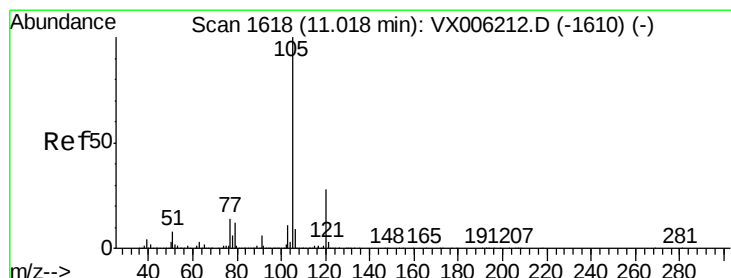
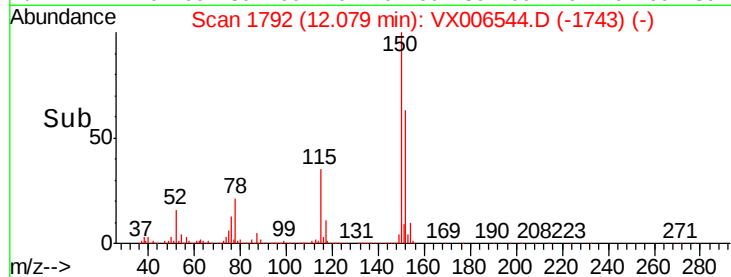
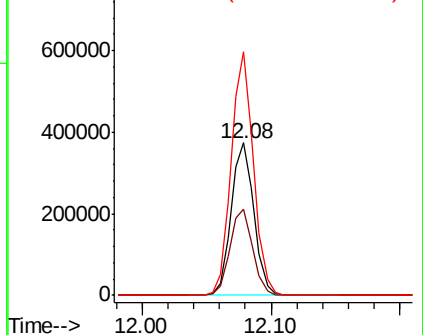
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.08 min Scan# 1792
 Delta R.T. 0.00 min
 Lab File: VX006544.D
 Acq: 15 Dec 2018 05:14

Instrument :
 MSVOA_X
 ClientSampleId :
 PR-MW-05_121218

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.0	39.0	116.9
150	156.2	0.0	345.8

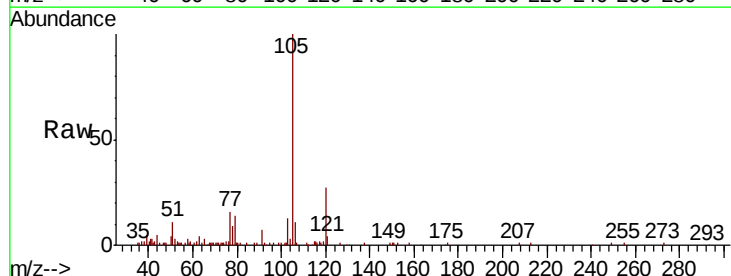


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 114.90 (114.60 to 115.60): V
 Ion 149.90 (149.60 to 150.60): V

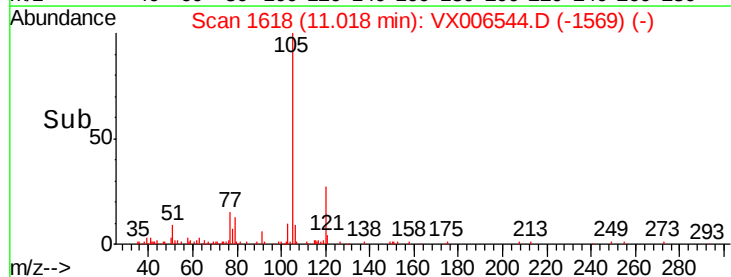
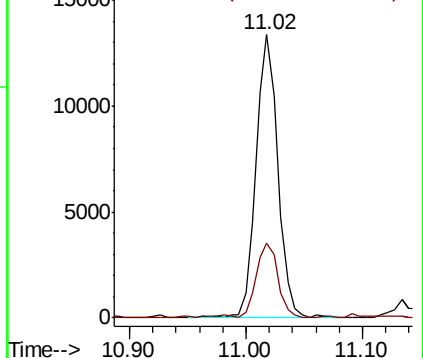


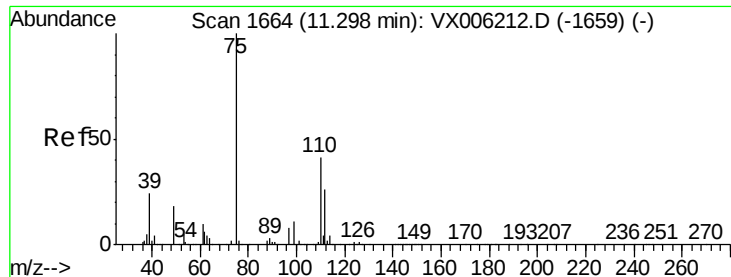
#73
 Isopropylbenzene
 Concen: 0.549 ug/l
 RT: 11.02 min Scan# 1618
 Delta R.T. 0.00 min
 Lab File: VX006544.D
 Acq: 15 Dec 2018 05:14

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.1	14.1	42.3



Abundance Ion 105.00 (104.70 to 105.70): V
 Ion 120.00 (119.70 to 120.70): V





#76

1,2,3-Trichloropropane

Concen: 23.812 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX006544.D

Acq: 15 Dec 2018 05:14

Instrument :

MSVOA_X

ClientSampleId :

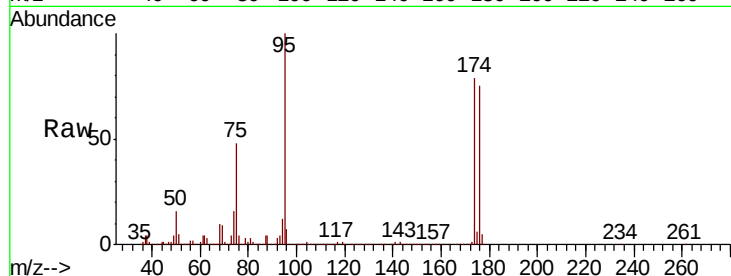
PR-MW-05_121218

Tgt Ion: 75 Resp: 212289

Ion Ratio Lower Upper

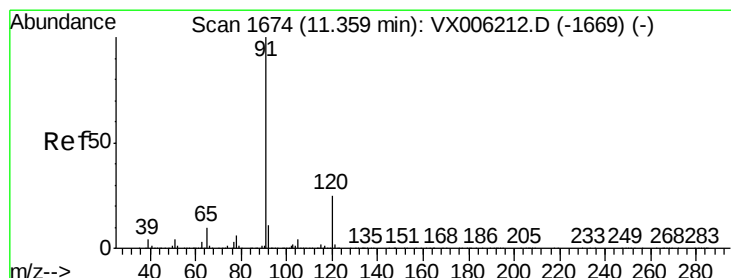
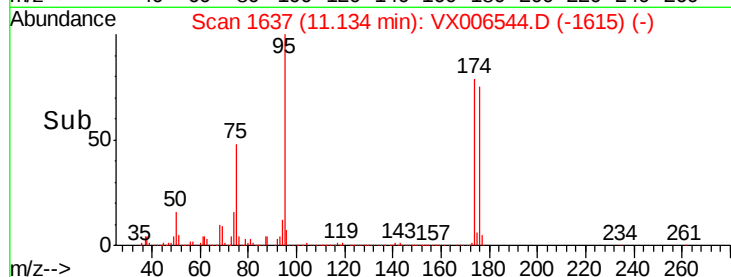
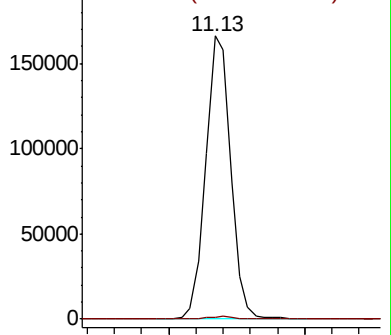
75 100

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



#78

n-propylbenzene

Concen: 0.383 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. 0.00 min

Lab File: VX006544.D

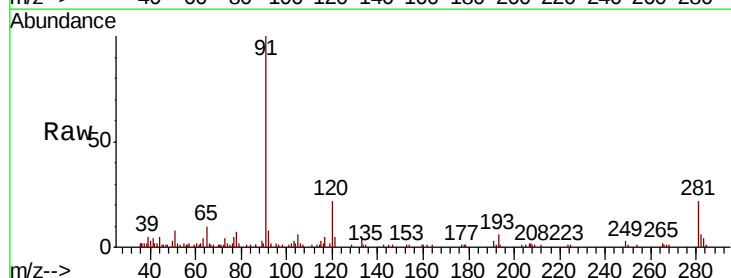
Acq: 15 Dec 2018 05:14

Tgt Ion: 91 Resp: 13581

Ion Ratio Lower Upper

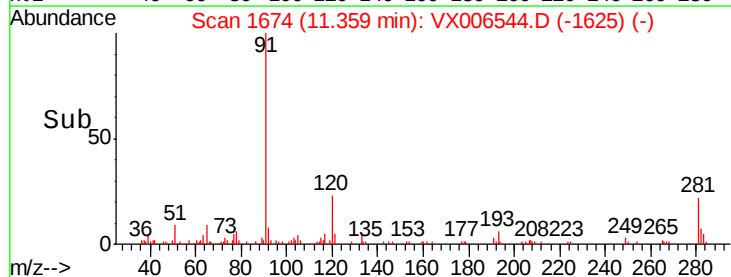
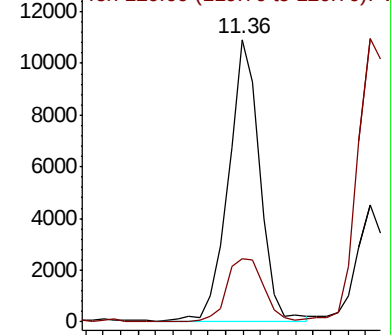
91 100

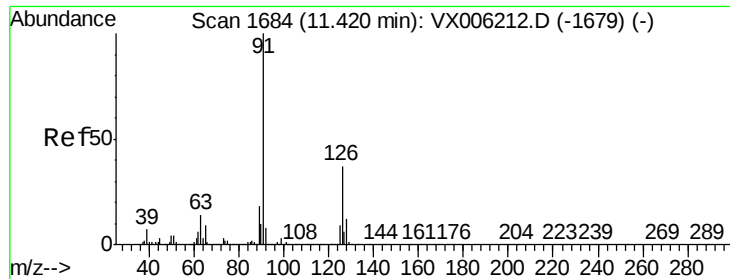
120 26.6 12.7 38.0



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V

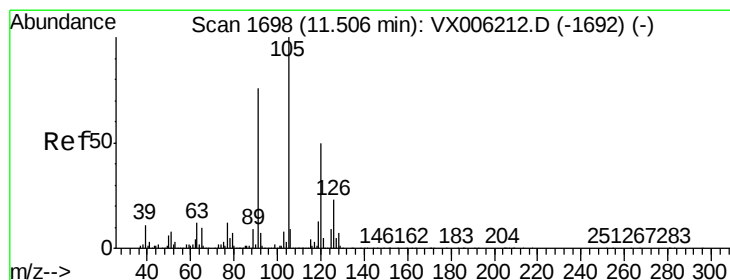
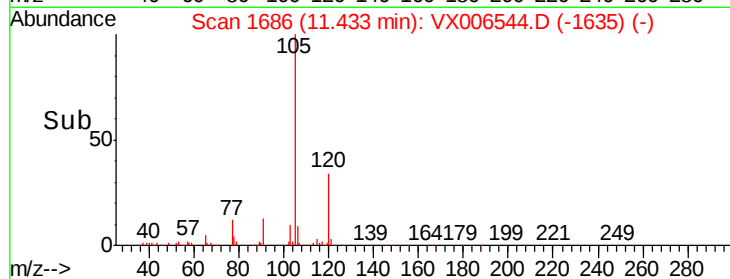
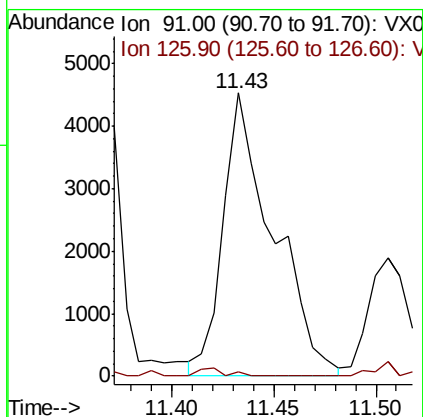
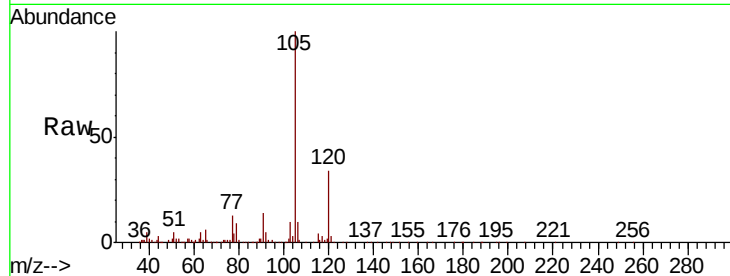




#79
 2-Chlorotoluene
 Concen: 0.366 ug/l
 RT: 11.43 min Scan# 1686
 Delta R.T. 0.01 min
 Lab File: VX006544.D
 Acq: 15 Dec 2018 05:14

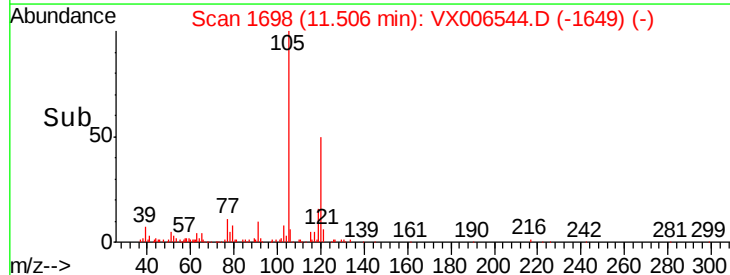
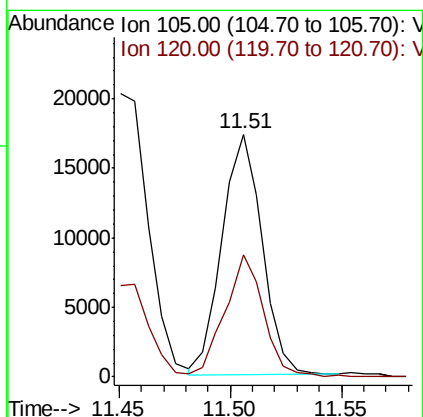
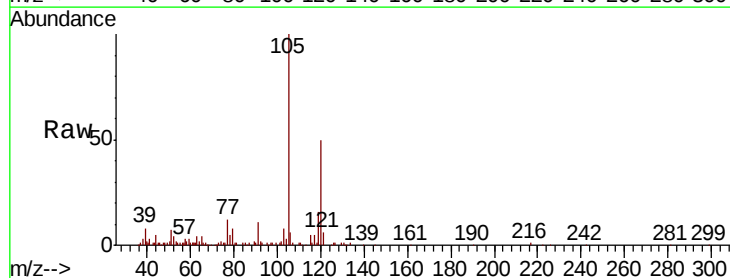
Instrument :
 MSVOA_X
 ClientSampleId :
 PR-MW-05_121218

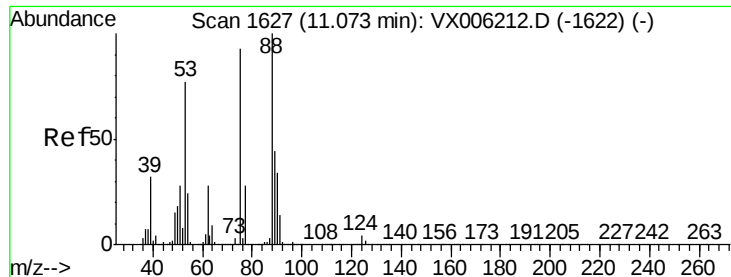
Tgt Ion: 91 Resp: 7706
 Ion Ratio Lower Upper
 91 100
 126 1.5 18.6 56.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.813 ug/l
 RT: 11.51 min Scan# 1698
 Delta R.T. 0.00 min
 Lab File: VX006544.D
 Acq: 15 Dec 2018 05:14

Tgt Ion: 105 Resp: 21564
 Ion Ratio Lower Upper
 105 100
 120 49.1 25.4 76.0

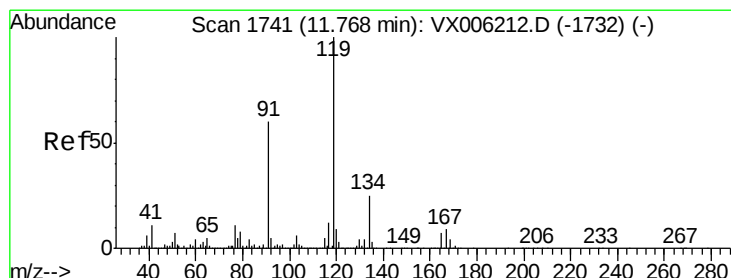
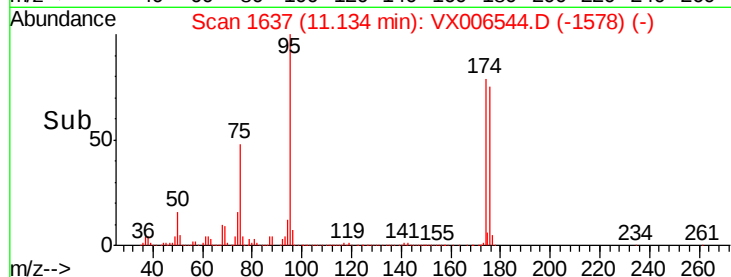
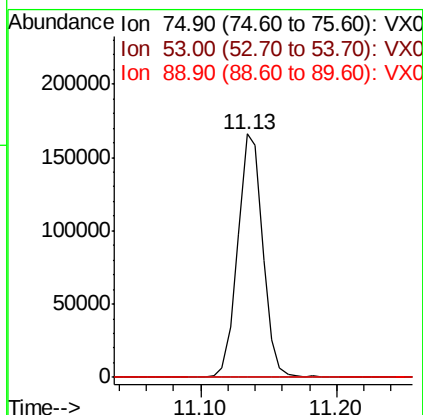
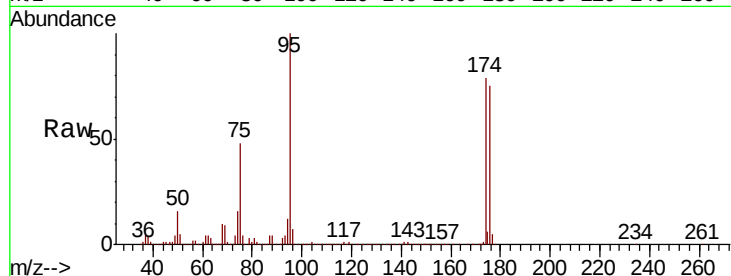




#81
trans-1,4-Dichloro-2-butene
Concen: 55.880 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.06 min
Lab File: VX006544.D
Acq: 15 Dec 2018 05:14

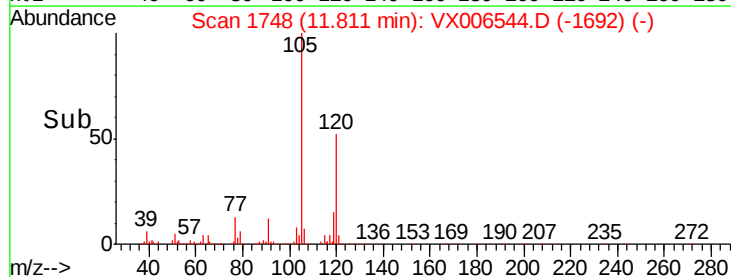
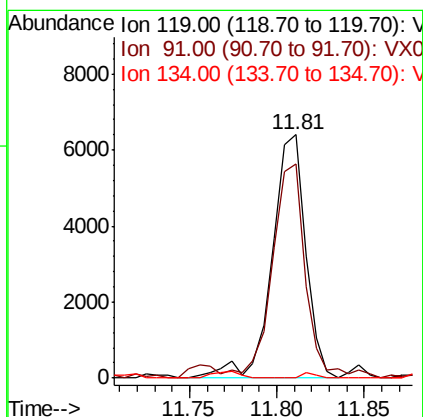
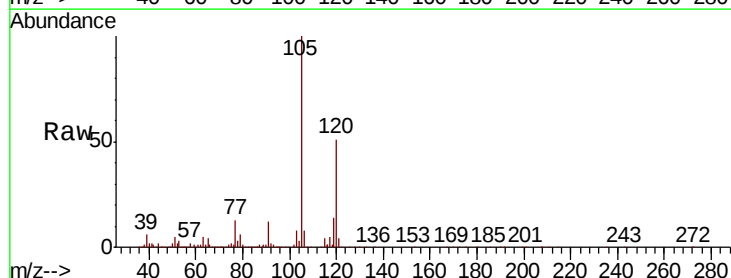
Instrument :
MSVOA_X
ClientSampleId :
PR-MW-05_121218

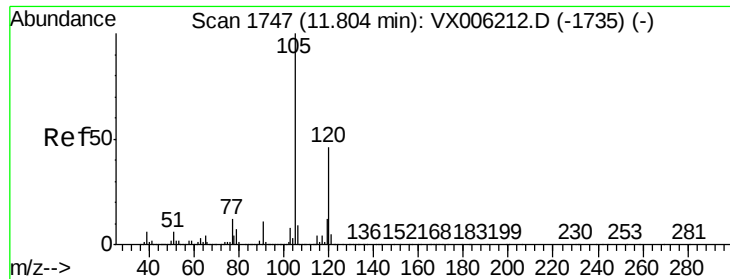
Tgt Ion: 75 Resp: 212289
Ion Ratio Lower Upper
75 100
53 0.2 64.4 96.6#
89 0.0 44.2 66.4#



#83
tert-Butylbenzene
Concen: 0.303 ug/l
RT: 11.81 min Scan# 1748
Delta R.T. 0.04 min
Lab File: VX006544.D
Acq: 15 Dec 2018 05:14

Tgt Ion: 119 Resp: 8592
Ion Ratio Lower Upper
119 100
91 88.0 26.4 79.2#
134 1.0 11.6 34.7#





#84

1,2,4-Trimethylbenzene

Concen: 2.421 ug/l

RT: 11.80 min Scan# 1747

Delta R.T. 0.00 min

Lab File: VX006544.D

Acq: 15 Dec 2018 05:14

Instrument :

MSVOA_X

ClientSampleId :

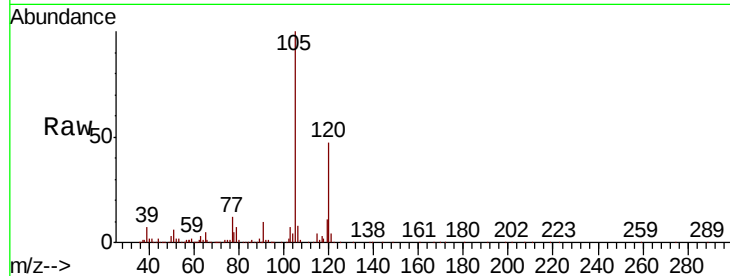
PR-MW-05_121218

Tgt Ion:105 Resp: 66349

Ion Ratio Lower Upper

105 100

120 48.5 23.4 70.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.80

60000

50000

40000

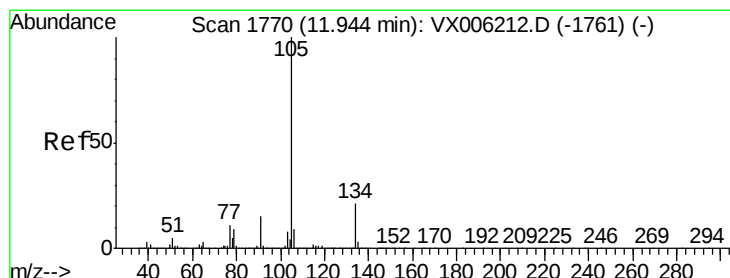
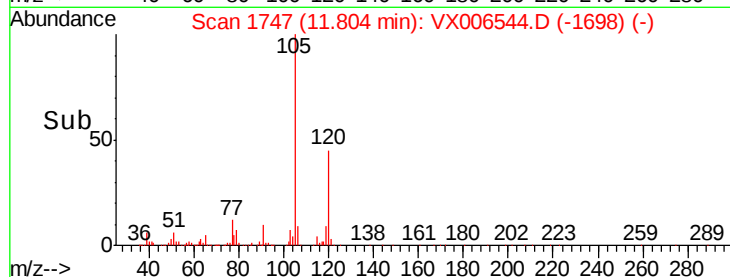
30000

20000

10000

0

Time--> 11.70 11.80 11.90



#85

sec-Butylbenzene

Concen: 2.060 ug/l

RT: 11.80 min Scan# 1747

Delta R.T. -0.14 min

Lab File: VX006544.D

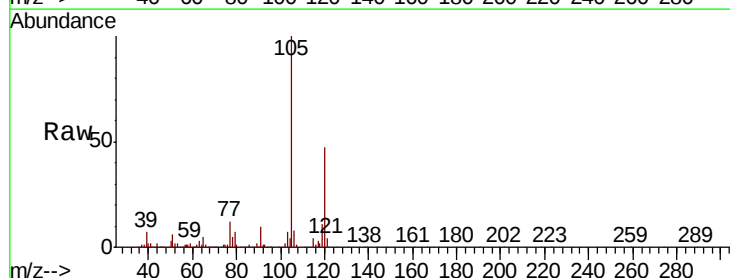
Acq: 15 Dec 2018 05:14

Tgt Ion:105 Resp: 66349

Ion Ratio Lower Upper

105 100

134 0.1 10.8 32.4#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

11.80

60000

50000

40000

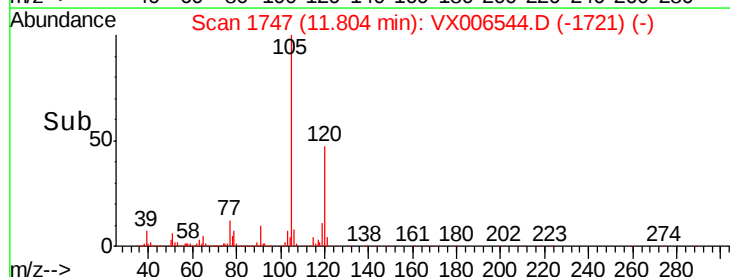
30000

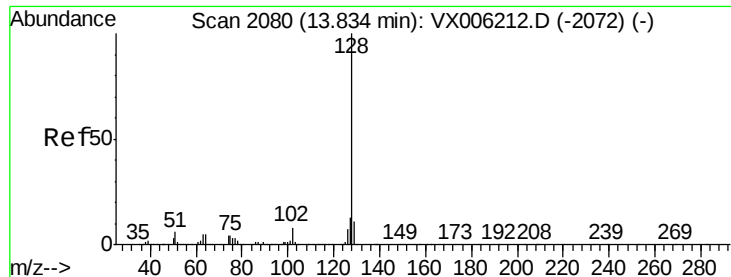
20000

10000

0

Time--> 11.70 11.80 11.90

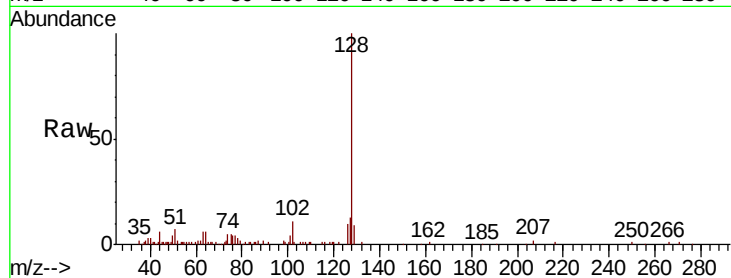




#95
Naphthalene
Concen: 0.511 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. 0.00 min
Lab File: VX006544.D
Acq: 15 Dec 2018 05:14

Instrument :
MSVOA_X
ClientSampleId :
PR-MW-05_121218

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.7	10.2	15.4
129	11.3	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

