

Data Path : Z:\HPCHEM1\BNA M\DATA\BM061317\
 Data File : BM010569.D
 Acq On : 13 Jun 2017 20:32
 Operator : SJ/MA
 Sample : I3558-17 10X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :

Quant Time: Jun 14 01:49:29 2017
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM052717.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Wed Jun 14 01:46:30 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.88	152	123745	20.00	ng/ul	0.00
18) Naphthalene-d8	10.69	136	464131	20.00	ng/ul	0.01
35) Acenaphthene-d10	14.52	164	316346	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.27	188	874691	20.00	ng/ul	0.00
75) Chrysene-d12	21.44	240	1437662	20.00	ng/ul	0.00
83) Perylene-d12	23.77	264	1241478	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.37	96	121	0.04	ng/uL	0.02
5) Phenol-d5	7.06	99	3997	0.43	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.23	67	6784	1.29	ng/ul	0.00
9) 2-Chlorophenol-d4	7.42	132	10329	1.38	ng/ul	0.00
13) 4-Methylphenol-d8	8.60	113	8495	1.12	ng/ul	0.00
19) Nitrobenzene-d5	9.06	128	5139	1.51	ng/ul	0.00
22) 2-Nitrophenol-d4	9.78	143	4091	1.04	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.32	165	12436	1.54	ng/ul	0.01
29) 4-Chloroaniline-d4	10.85	131	55689	7.13	ng/ul	0.00
43) Dimethylphthalate-d6	13.93	166	55033	2.09	ng/ul	0.00
46) Acenaphthylene-d8	14.22	160	53843	1.76	ng/ul	0.00
51) 4-Nitrophenol-d4	14.78	143	4361	1.11	ng/ul	0.02
57) Fluorene-d10	15.52	176	45770	1.98	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.66	200	8165	1.32	ng/ul	0.02
70) Anthracene-d10	17.37	188	74940	1.76	ng/ul	0.00
76) Pyrene-d10	19.66	212	110755	1.86	ng/ul	0.00
87) Benzo(a)pyrene-d12	23.62	264	102720	1.78	ng/ul	0.00

Target Compounds

						Ovalue
4) Benzaldehyde	7.07	77	11609	1.84	ng/ul#	1
8) Bis(2-Chloroethyl)ether	7.28	93	30736	4.61	ng/ul#	31
17) Hexachloroethane	8.96	117	12687	3.72	ng/ul#	1
24) 2,4-Dimethylphenol	9.86	107	23876	2.46	ng/ul	93
30) 4-Chloroaniline	10.77	127	15504543	2058.02	ng/ul#	6
34) 2-Methylnaphthalene	12.35	142	13776388	780.52	ng/ul	98
40) 1,1'-Biphenyl	13.35	154	2551632	99.43	ng/ul	99
42) 2-Nitroaniline	13.67	65	16660	3.24	ng/ul#	29
47) Acenaphthylene	14.24	152	426247	14.23	ng/ul#	97
49) Acenaphthene	14.59	153	10709970	509.65	ng/ul	99
53) Dibenzofuran	14.93	168	11794593	379.57	ng/ul	88
54) 2,4-Dinitrotoluene	14.91	165	19488	2.80	ng/ul#	1
58) Fluorene	15.57	166	12595048	494.14	ng/ul	97
64) N-Nitrosodiphenylamine	15.82	169	50139	1.97	ng/ul#	1
69) Phenanthrene	17.42	178	8064232	172.70	ng/ul	99
71) Anthracene	17.42	178	8081464	165.78	ng/ul	98
72) Carbazole	17.69	167	4051513	98.19	ng/ul	99
74) Fluoranthene	19.47	202	98852	1.72	ng/ul	99
80) Benzo(a)anthracene	21.43	228	7561113	93.26	ng/ul	97
82) Chrysene	21.48	228	5195559	70.89	ng/ul	94
85) Benzo(b)fluoranthene	23.06	252	3635119	50.32	ng/ul	99
86) Benzo(k)fluoranthene	23.06	252	3635119	52.67	ng/ul	98
88) Benzo(a)pyrene	23.57	252	1241834	17.34	ng/ul	99

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Response via : Initial Calibration

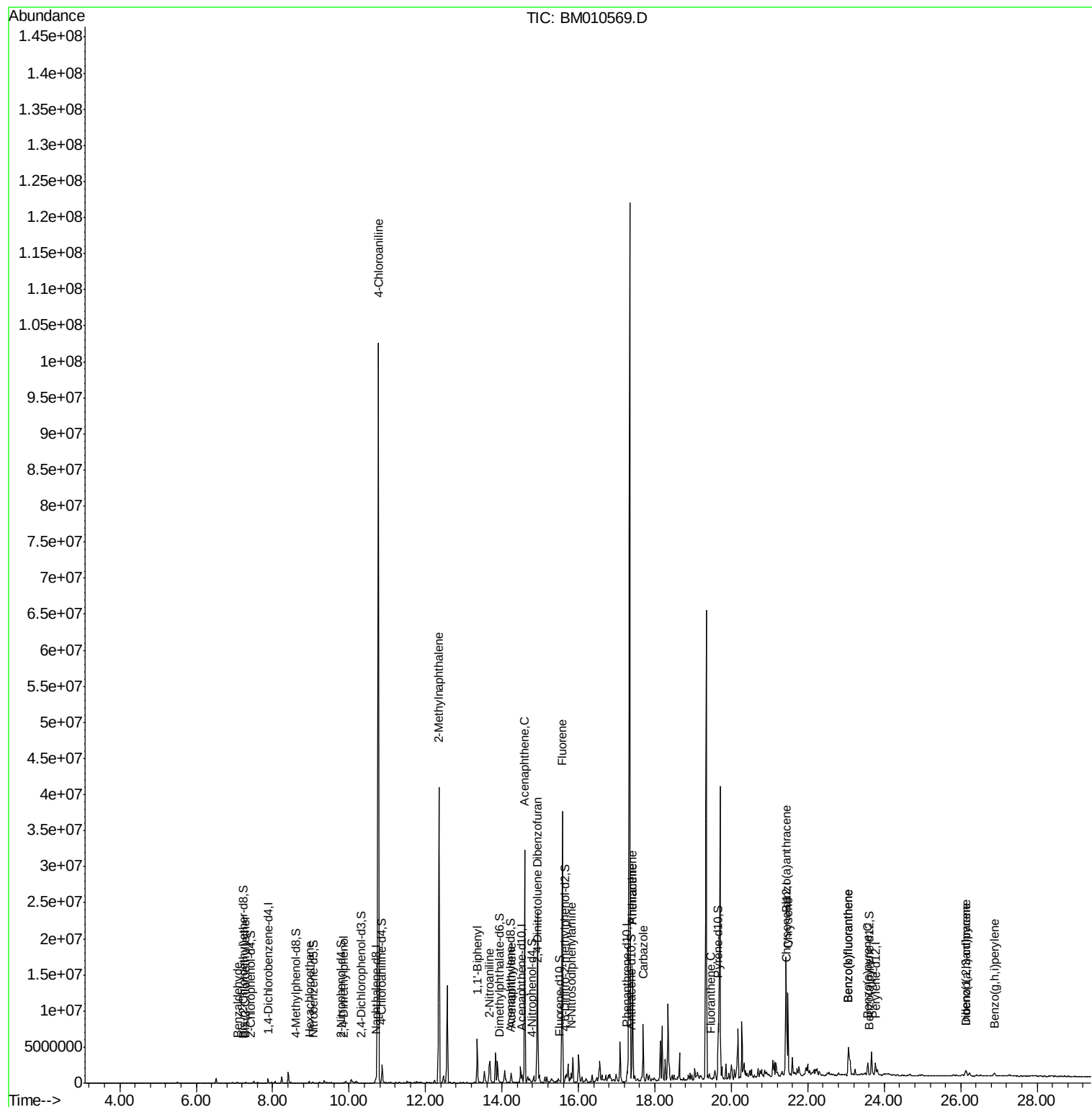
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
89) Indeno(1,2,3-cd)pyrene	26.14	276	733491	8.11	ng/ul	98
90) Dibenzo(a,h)anthracene	26.14	278	210781	2.71	ng/ul#	79
91) Benzo(g,h,i)perylene	26.88	276	455490	6.11	ng/ul#	94

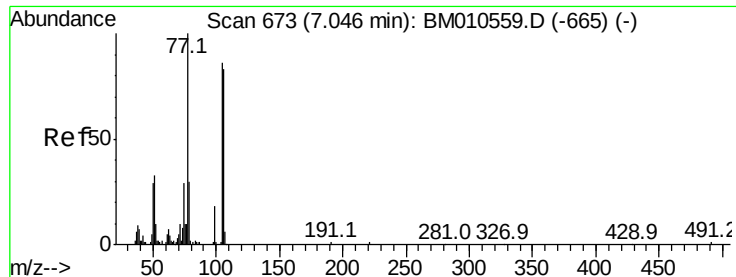
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#4

Benzaldehyd

Concen: 1.84 ng/ul

RT: 7.07 min Scan# 677

Delta R.T. 0.02 min

Lab File: BM010569.D

Acq: 13 Jun 2017 20:32

Instrument :

BNA_M

ClientSampleId :

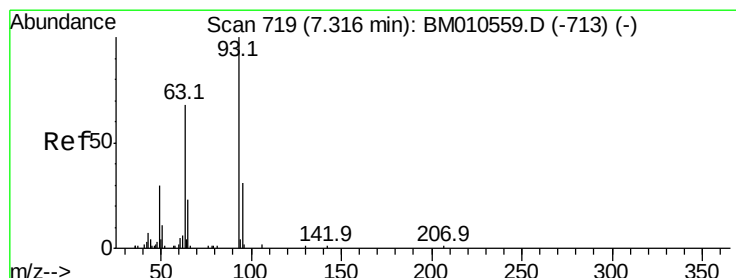
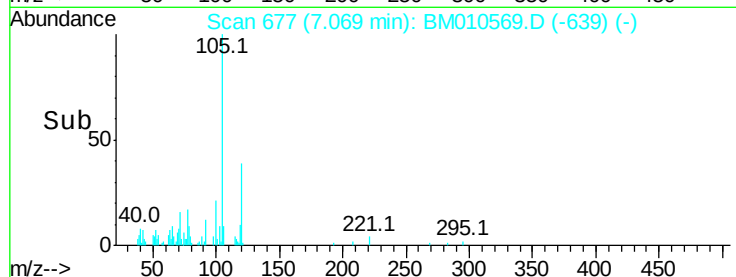
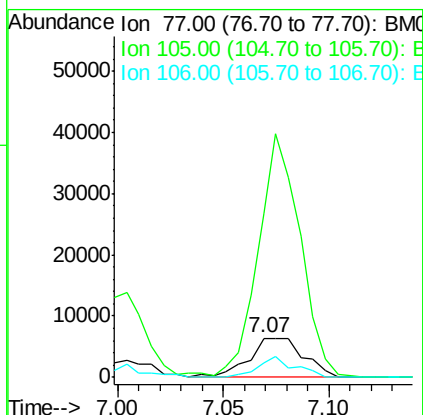
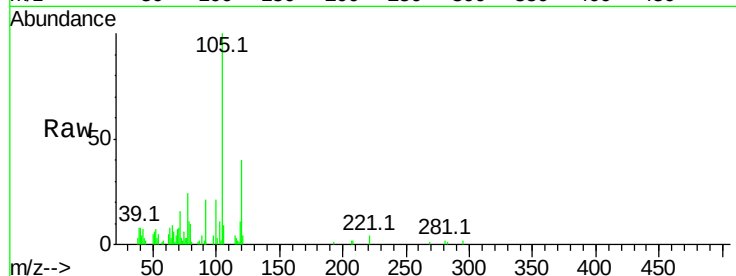
Tot Ion: 77 Resp: 11609

Ion Ratio Lower Upper

77 100

105 417.5 66.1 99.1#

106 38.4 67.8 101.6#



#8

Bis(2-Chloroethyl)ether

Concen: 4.61 ng/ul

RT: 7.28 min Scan# 713

Delta R.T. -0.04 min

Lab File: BM010569.D

Acq: 13 Jun 2017 20:32

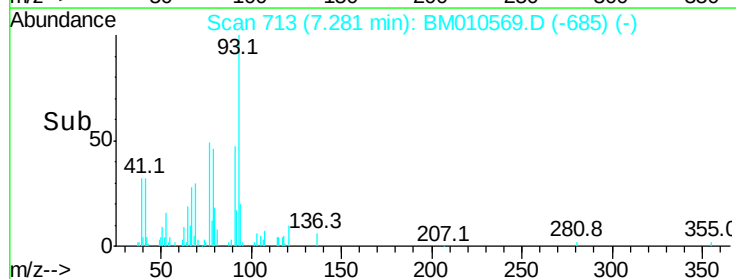
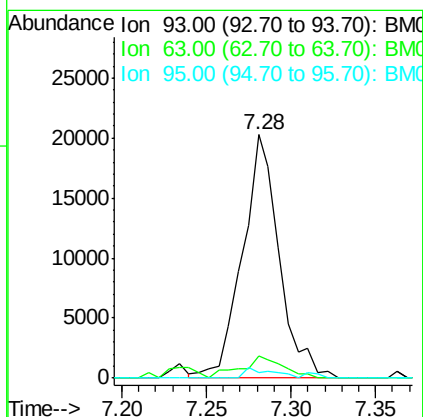
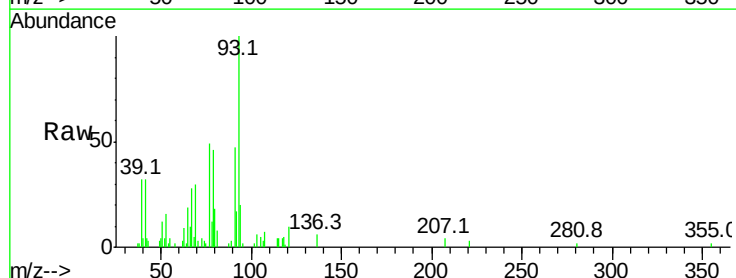
Tgt Ion: 93 Resp: 30736

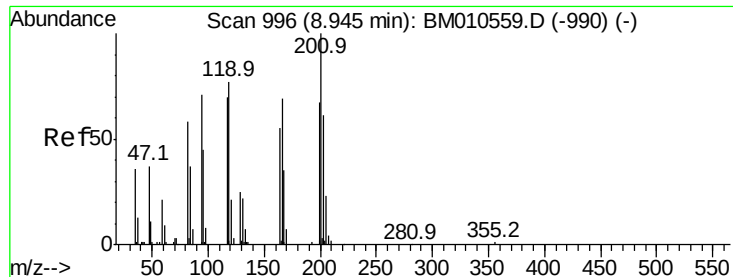
Ion Ratio Lower Upper

93 100

63 9.3 57.3 85.9#

95 2.0 26.6 39.8#





#17

Hexachloroethane

Concen: 3.72 ng/ul

RT: 8.96 min Scan# 999

Delta R.T. 0.02 min

Lab File: BM010569.D

Acq: 13 Jun 2017 20:32

Instrument :

BNA_M

ClientSampleId :

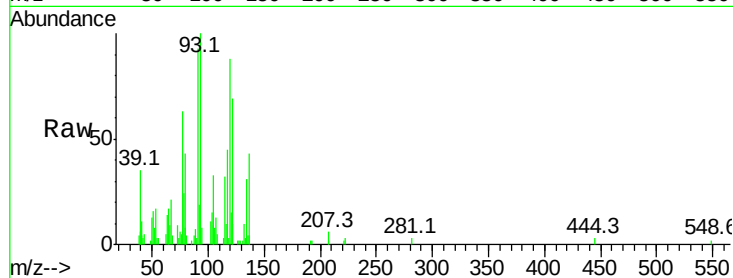
Tot Ion:117 Resp: 12687

Ion Ratio Lower Upper

117 100

201 0.0 111.6 167.4#

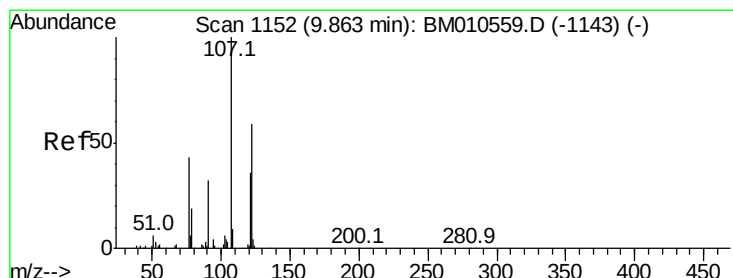
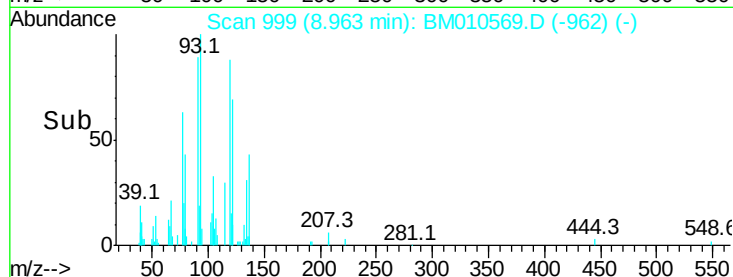
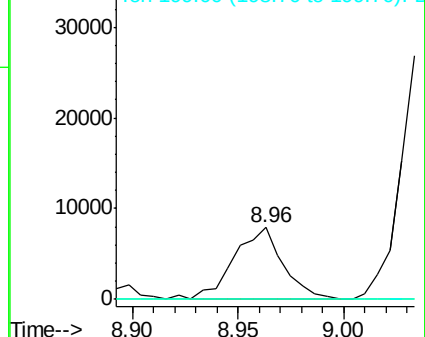
199 0.0 67.8 101.6#



Abundance Ion 117.00 (116.70 to 117.70): E

Ion 201.00 (200.70 to 201.70): E

Ion 199.00 (198.70 to 199.70): E



#24

2,4-Dimethylphenol

Concen: 2.46 ng/ul

RT: 9.86 min Scan# 1152

Delta R.T. -0.00 min

Lab File: BM010569.D

Acq: 13 Jun 2017 20:32

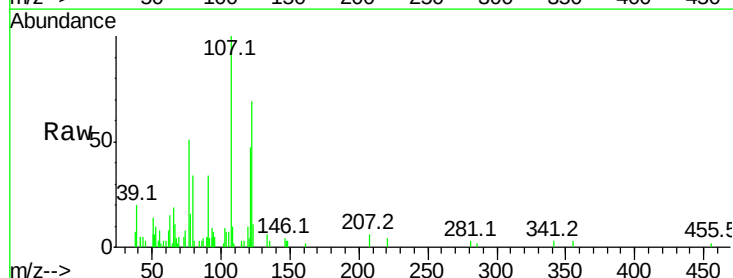
Tgt Ion:107 Resp: 23876

Ion Ratio Lower Upper

107 100

121 47.2 31.9 47.9

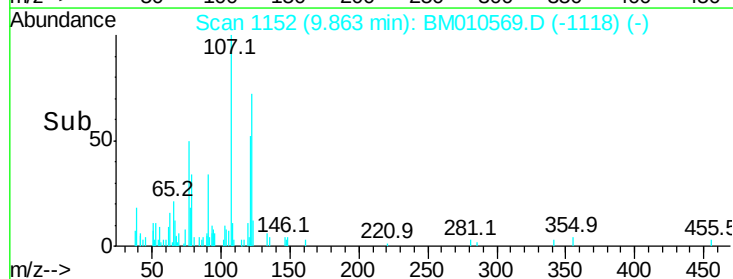
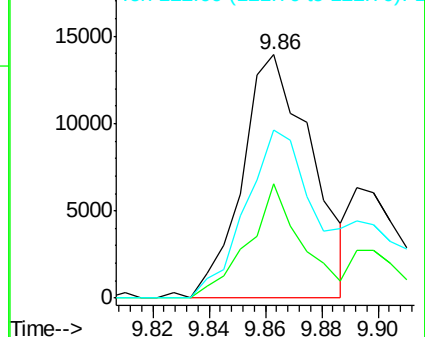
122 69.0 57.8 86.6

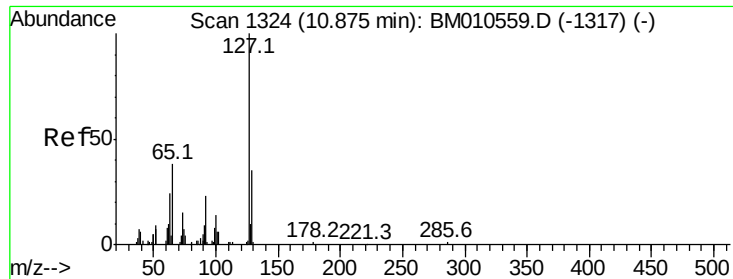


Abundance Ion 107.00 (106.70 to 107.70): E

Ion 121.00 (120.70 to 121.70): E

Ion 122.00 (121.70 to 122.70): E





#30

4-Chloroaniline

Concen: 2058.02 ng/ul

RT: 10.77 min Scan# 1306

Delta R.T. -0.11 min

Lab File: BM010569.D

Acq: 13 Jun 2017 20:32

Instrument :

BNA_M

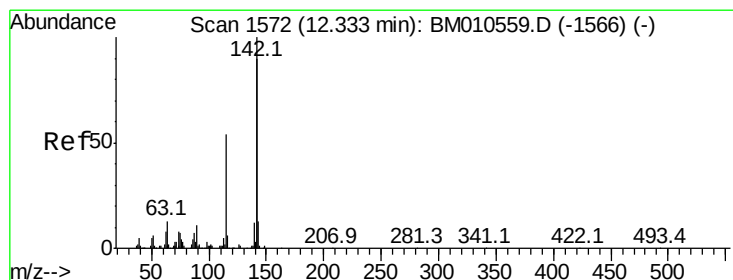
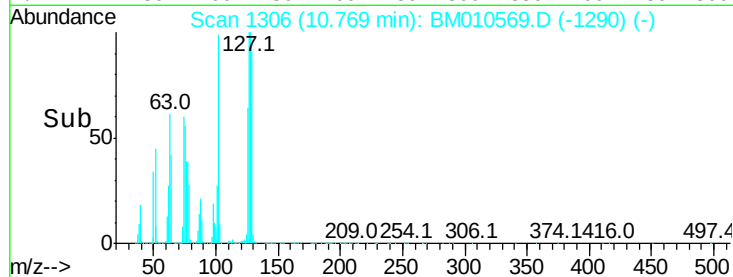
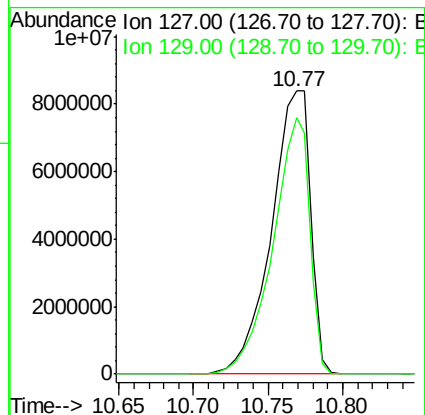
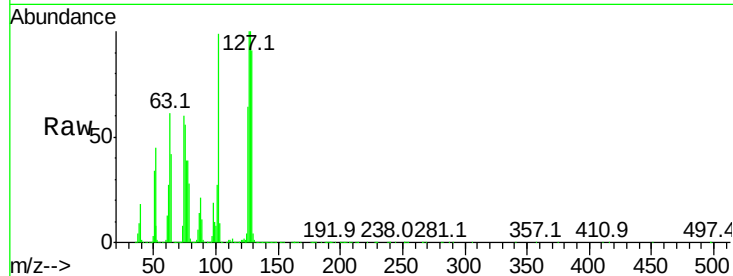
ClientSampled :

Tot Ion:127 Resp:15504543

Ion Ratio Lower Upper

127 100

129 90.5 28.4 42.6#



#34

2-Methylnaphthalene

Concen: 780.52 ng/ul

RT: 12.35 min Scan# 1574

Delta R.T. 0.01 min

Lab File: BM010569.D

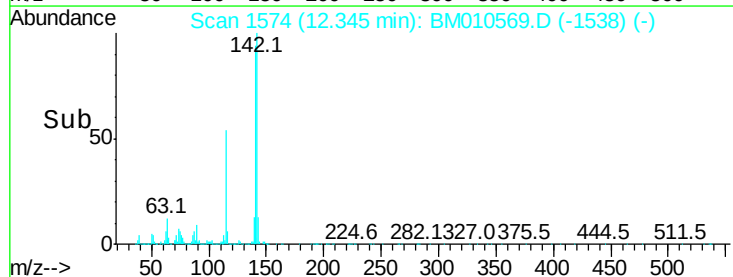
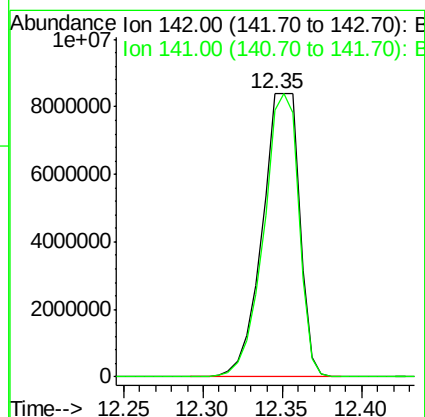
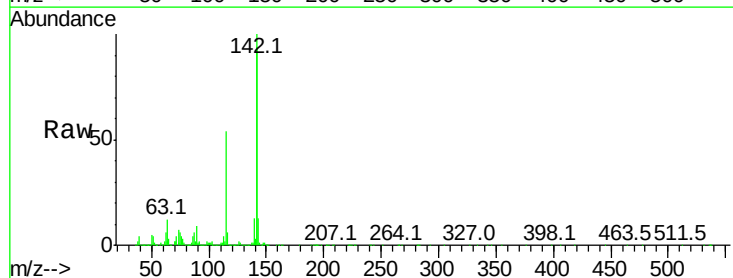
Acq: 13 Jun 2017 20:32

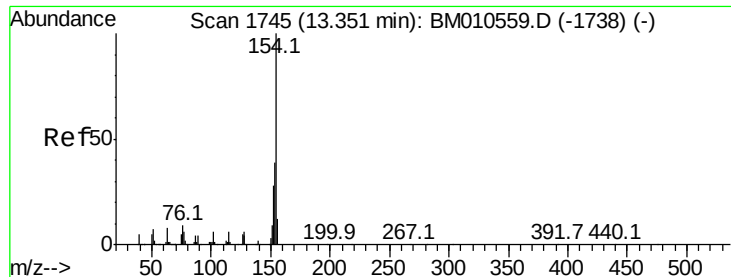
Tgt Ion:142 Resp:13776388

Ion Ratio Lower Upper

142 100

141 94.1 74.1 111.1





#40

1,1'-Biphenyl

Concen: 99.43 ng/ul

RT: 13.35 min Scan# 1745

Delta R.T. -0.00 min

Lab File: BM010569.D

Acq: 13 Jun 2017 20:32

Instrument :

BNA_M

ClientSampleId :

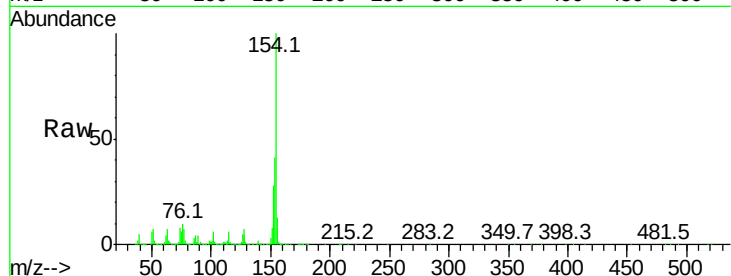
Tot Ion:154 Resp: 2551632

Ion Ratio Lower Upper

154 100

153 41.3 32.6 48.8

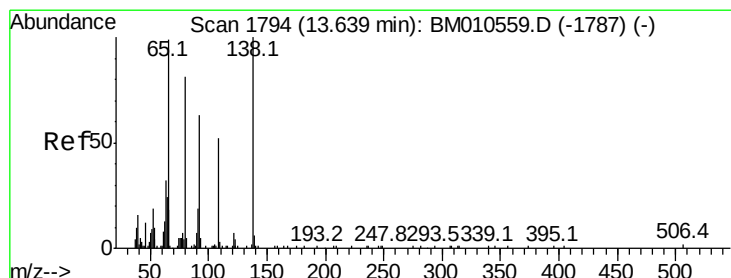
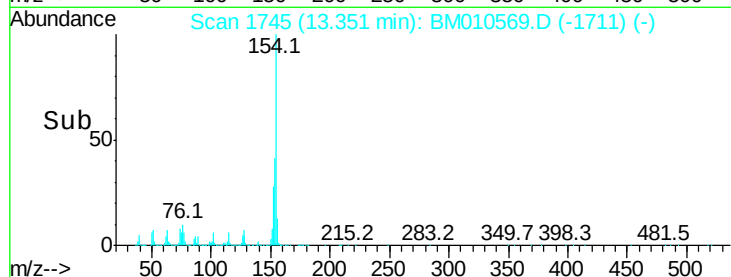
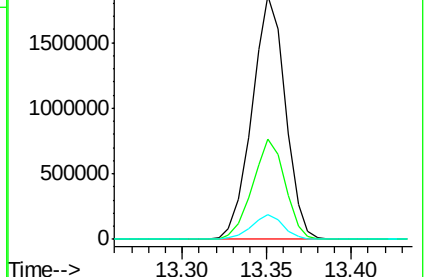
76 10.1 8.5 12.7



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BM



#42

2-Nitroaniline

Concen: 3.24 ng/ul

RT: 13.67 min Scan# 1799

Delta R.T. 0.03 min

Lab File: BM010569.D

Acq: 13 Jun 2017 20:32

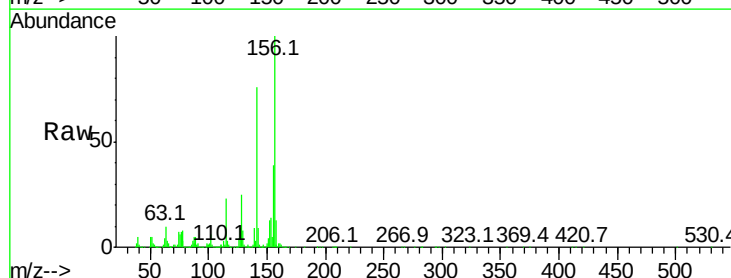
Tgt Ion: 65 Resp: 16660

Ion Ratio Lower Upper

65 100

92 3.7 51.8 77.6#

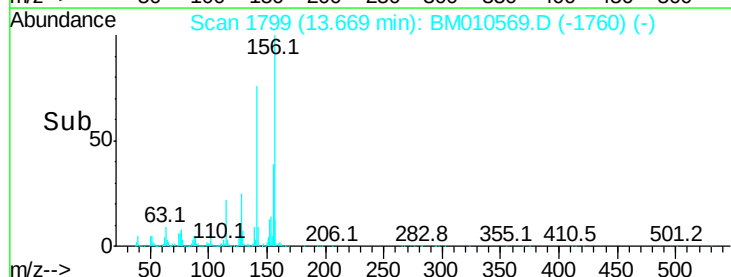
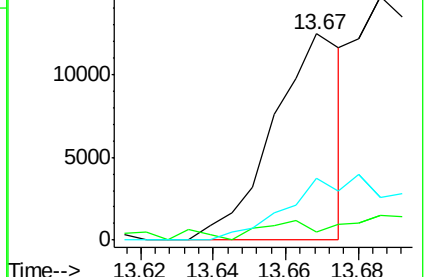
138 29.9 74.2 111.4#

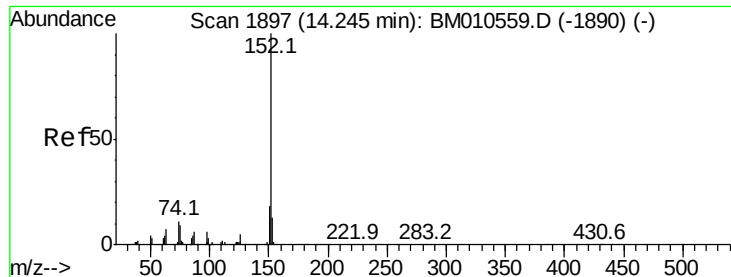


Abundance Ion 65.00 (64.70 to 65.70): BM

Ion 92.00 (91.70 to 92.70): BM

Ion 138.00 (137.70 to 138.70): E





#47

Acenaphthylene

Concen: 14.23 ng/ul

RT: 14.24 min Scan# 1897

Delta R.T. -0.00 min

Lab File: BM010569.D

Acq: 13 Jun 2017 20:32

Instrument :

BNA_M

ClientSampleId :

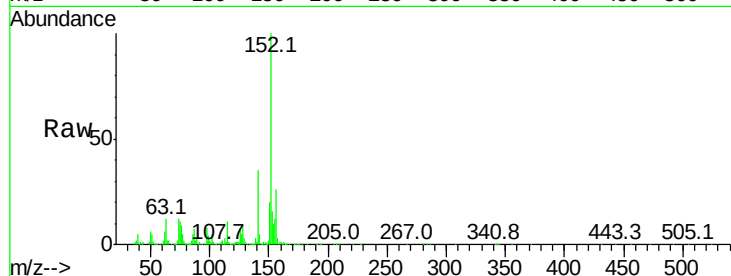
Tot Ion:152 Resp: 426247

Ion Ratio Lower Upper

152 100

151 20.4 16.3 24.5

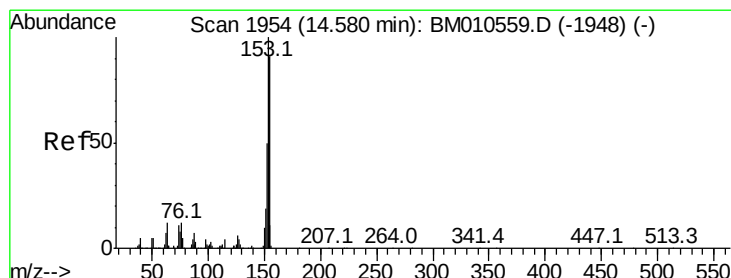
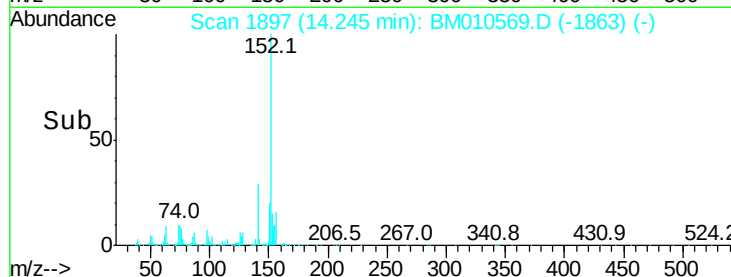
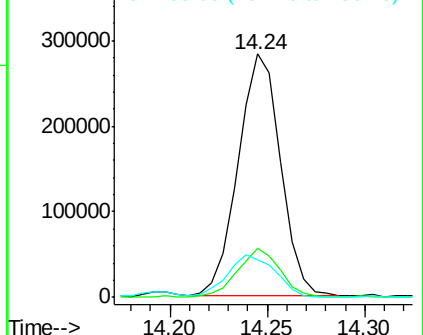
153 15.7 10.2 15.4#



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#49

Acenaphthene

Concen: 509.65 ng/ul

RT: 14.59 min Scan# 1956

Delta R.T. 0.01 min

Lab File: BM010569.D

Acq: 13 Jun 2017 20:32

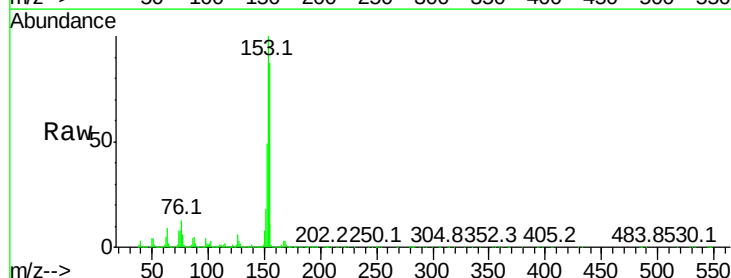
Tgt Ion:153 Resp:10709970

Ion Ratio Lower Upper

153 100

152 48.8 37.6 56.4

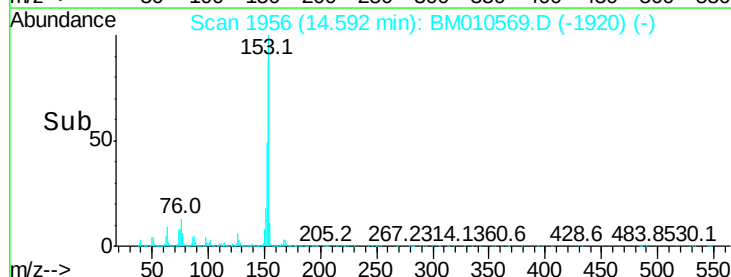
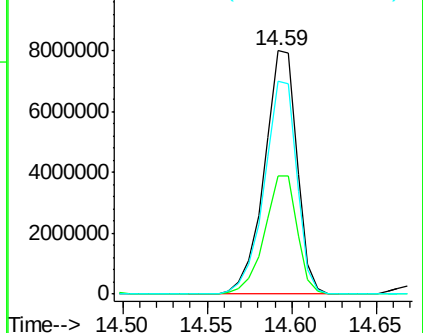
154 87.3 70.4 105.6

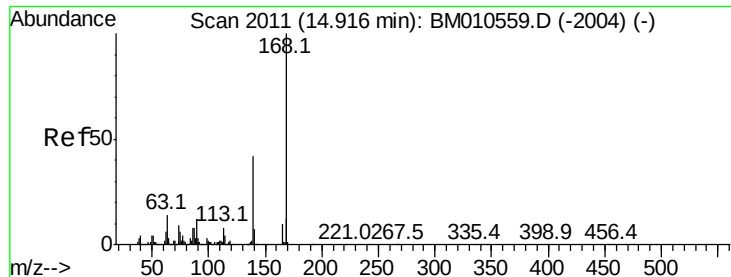


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E





#53

Dibenzofuran

Concen: 379.57 ng/ul

RT: 14.93 min Scan# 2013

Delta R.T. 0.01 min

Lab File: BM010569.D

Acq: 13 Jun 2017 20:32

Instrument :

BNA_M

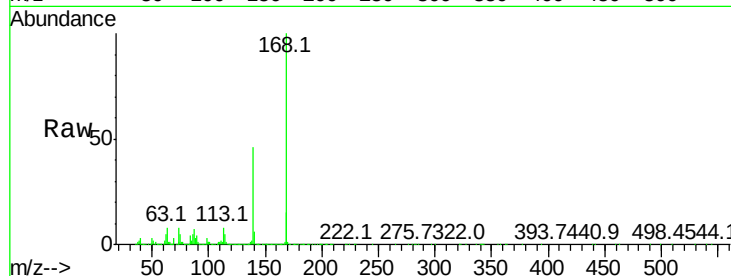
ClientSampleId :

Tot Ion:168 Resp:11794593

Ion Ratio Lower Upper

168 100

139 45.6 30.8 46.2



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

14.93

8000000

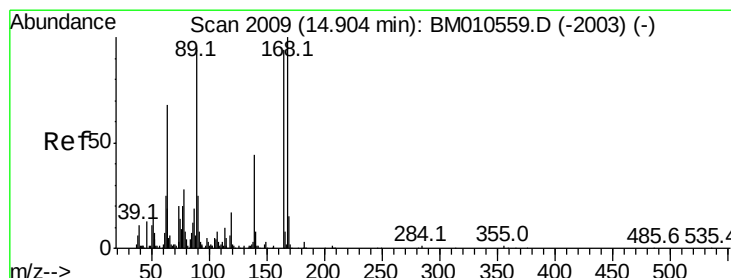
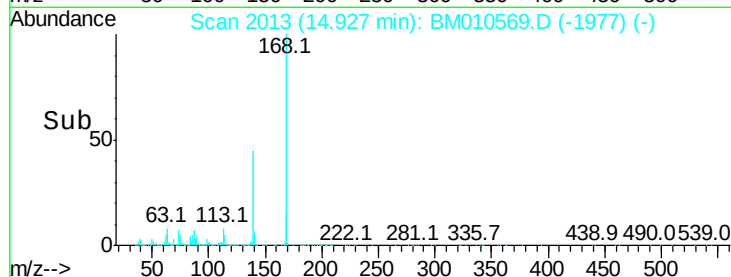
6000000

4000000

2000000

0

Time--> 14.85 14.90 14.95



#54

2,4-Dinitrotoluene

Concen: 2.80 ng/ul

RT: 14.91 min Scan# 2010

Delta R.T. 0.01 min

Lab File: BM010569.D

Acq: 13 Jun 2017 20:32

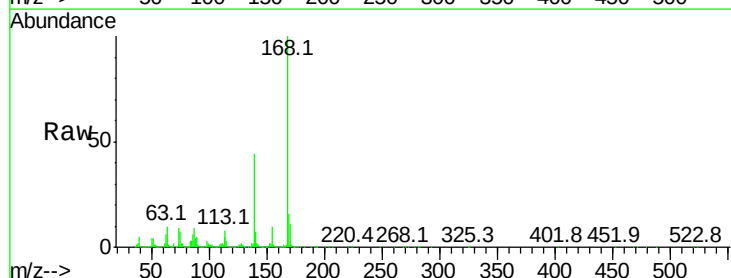
Tgt Ion:165 Resp: 19488

Ion Ratio Lower Upper

165 100

63 1482.1 45.8 68.8#

182 13.7 2.6 4.0#



Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BM0

Ion 182.00 (181.70 to 182.70): E

800000

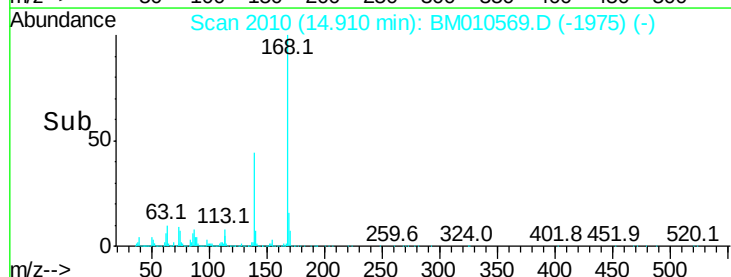
600000

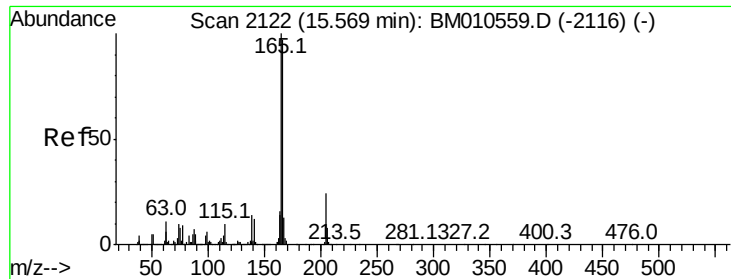
400000

200000

0

Time--> 14.85 14.90 14.95

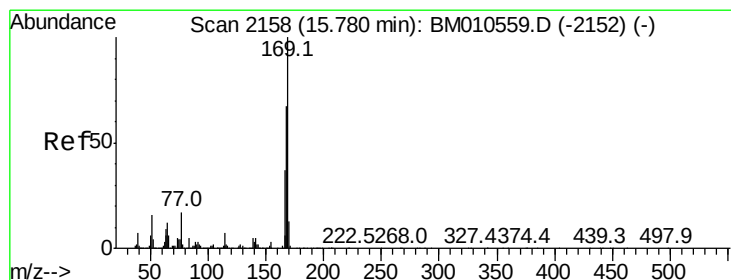
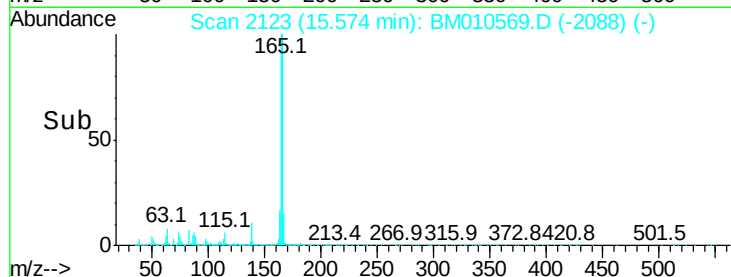
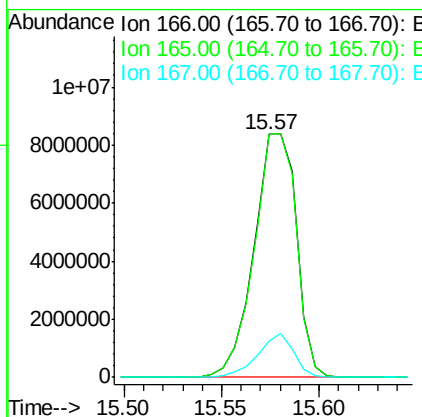
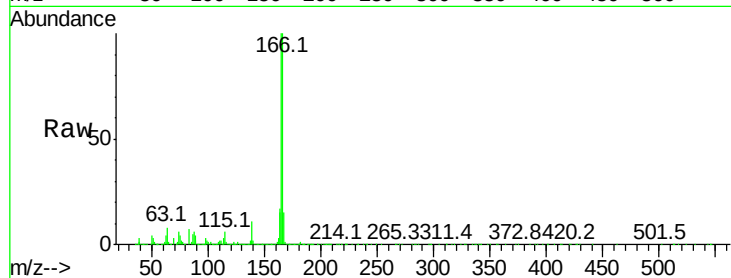




#58
 Fluorene
 Concen: 494.14 ng/ul
 RT: 15.57 min Scan# 2123
 Delta R.T. 0.01 min
 Lab File: BM010569.D
 Acq: 13 Jun 2017 20:32

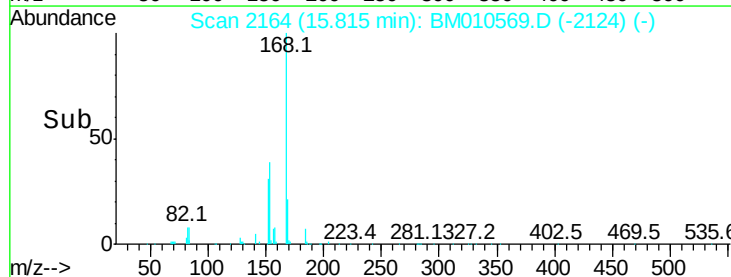
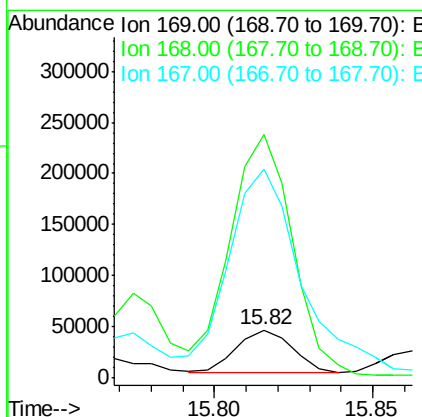
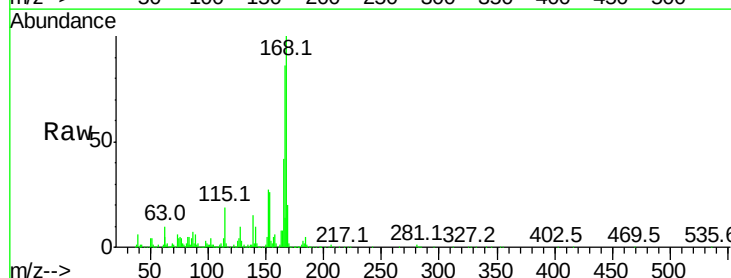
Instrument :
 BNA_M
 ClientSampled :

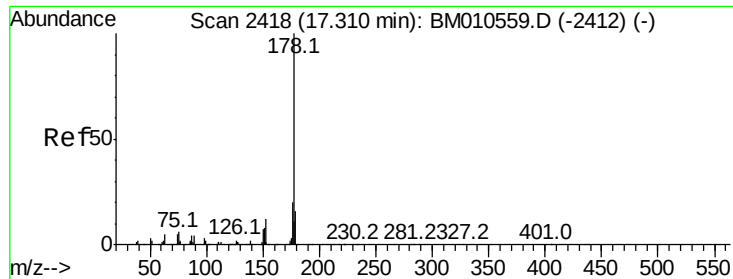
Tot Ion:166 Resp:12595048
 Ion Ratio Lower Upper
 166 100
 165 100.0 77.9 116.9
 167 15.0 10.6 16.0



#64
 N-Nitrosodiphenylamine
 Concen: 1.97 ng/ul
 RT: 15.82 min Scan# 2164
 Delta R.T. 0.04 min
 Lab File: BM010569.D
 Acq: 13 Jun 2017 20:32

Tgt Ion:169 Resp: 50139
 Ion Ratio Lower Upper
 169 100
 168 503.6 54.0 81.0#
 167 432.4 29.1 43.7#





#69

Phenanthrene

Concen: 172.70 ng/ul

RT: 17.42 min Scan# 2436

Delta R.T. 0.11 min

Lab File: BM010569.D

Acq: 13 Jun 2017 20:32

Instrument :

BNA_M

ClientSampled :

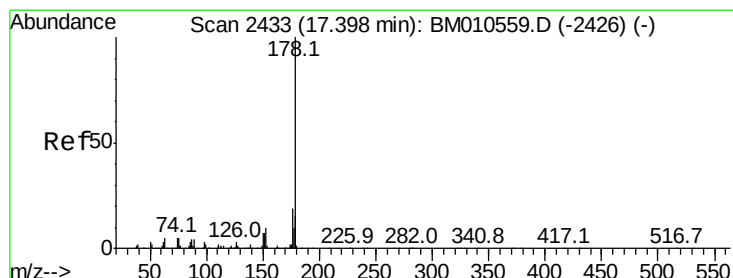
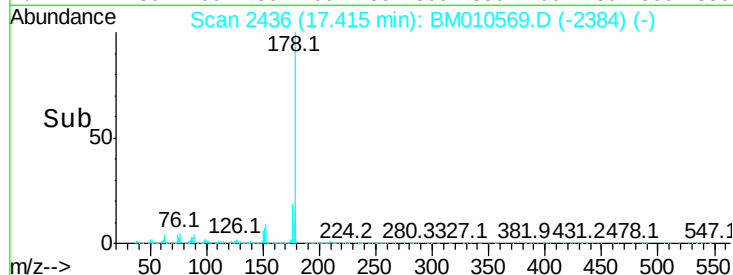
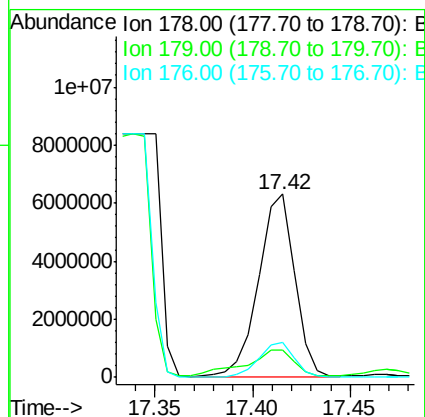
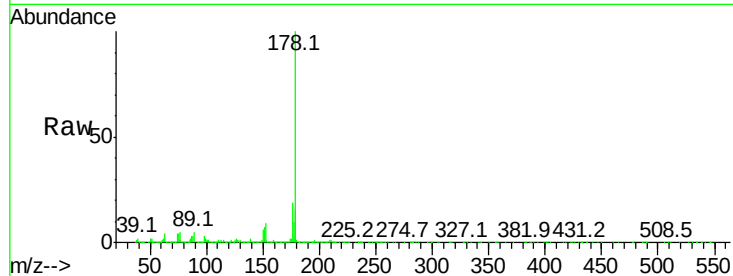
Tot Ion:178 Resp: 8064232

Ion Ratio Lower Upper

178 100

179 15.2 12.6 19.0

176 18.9 14.9 22.3



#71

Anthracene

Concen: 165.78 ng/ul

RT: 17.42 min Scan# 2436

Delta R.T. 0.02 min

Lab File: BM010569.D

Acq: 13 Jun 2017 20:32

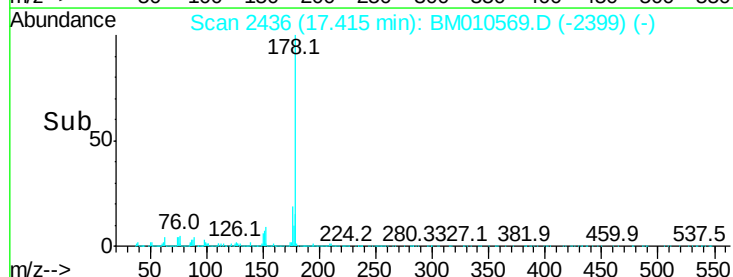
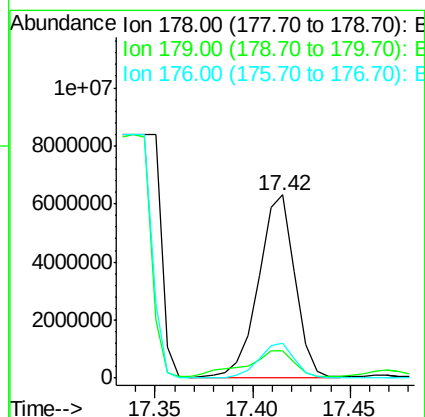
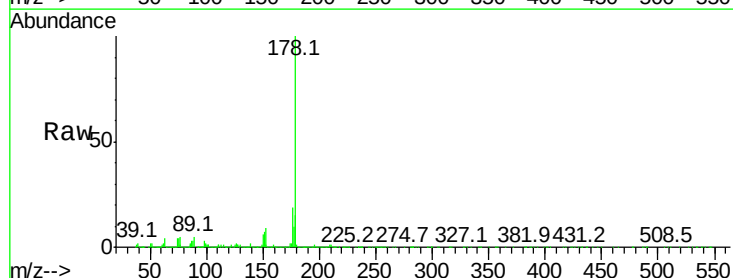
Tgt Ion:178 Resp: 8081464

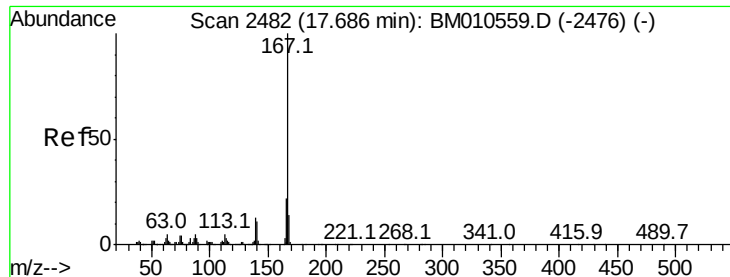
Ion Ratio Lower Upper

178 100

179 15.2 11.7 17.5

176 18.9 14.6 21.8





#72

Carbazole

Concen: 98.19 ng/ul

RT: 17.69 min Scan# 2483

Delta R.T. 0.01 min

Lab File: BM010569.D

Acq: 13 Jun 2017 20:32

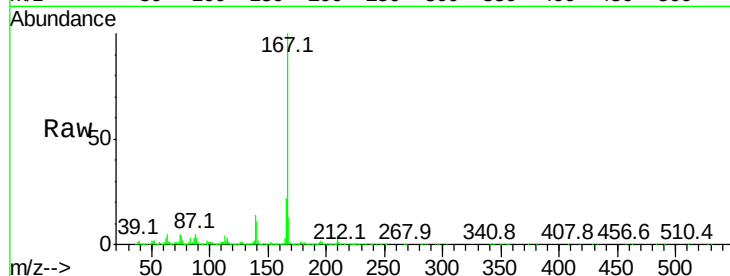
Instrument :

BNA_M

ClientSampleId :

Tot Ion:167 Resp: 4051513

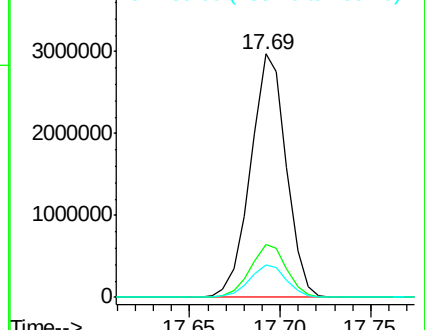
Ion	Ratio	Lower	Upper
167	100		
166	21.7	17.1	25.7
139	13.6	10.0	15.0



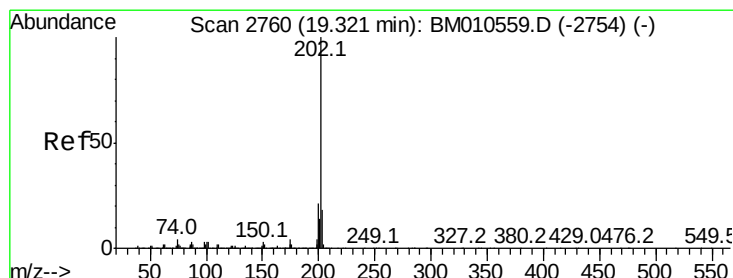
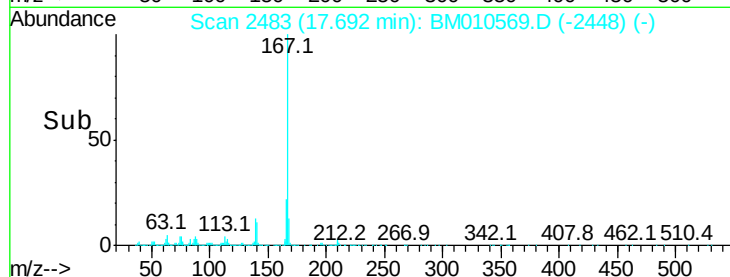
Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



Time-->



#74

Fluoranthene

Concen: 1.72 ng/ul

RT: 19.47 min Scan# 2786

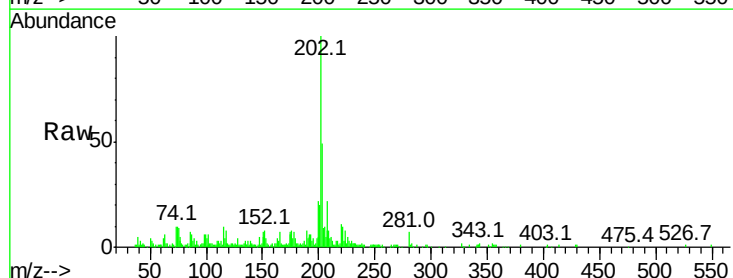
Delta R.T. 0.15 min

Lab File: BM010569.D

Acq: 13 Jun 2017 20:32

Tgt Ion:202 Resp: 98852

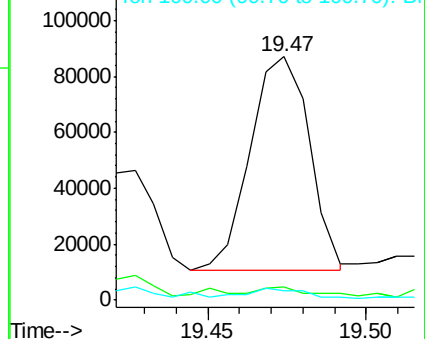
Ion	Ratio	Lower	Upper
202	100		
101	5.6	4.6	7.0
100	3.6	3.4	5.2



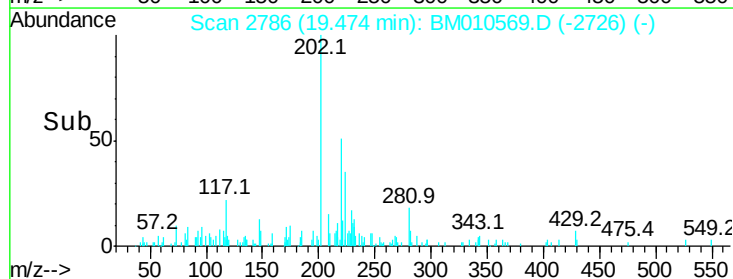
Abundance Ion 202.00 (201.70 to 202.70): E

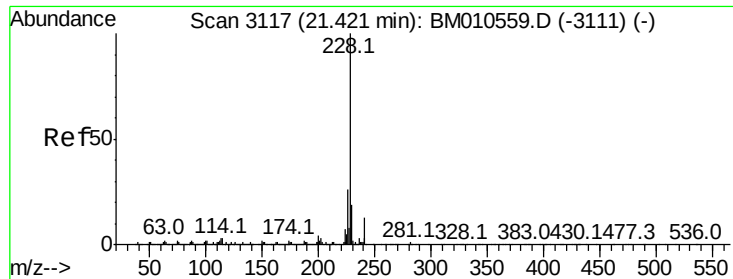
Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B



Time-->

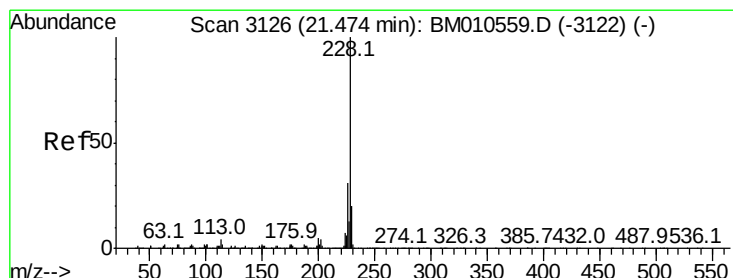
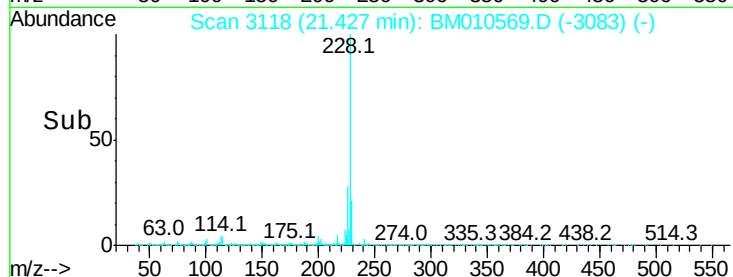
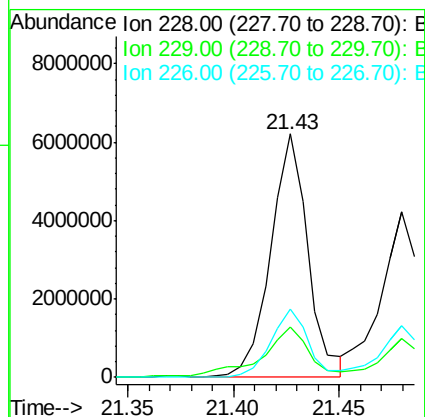
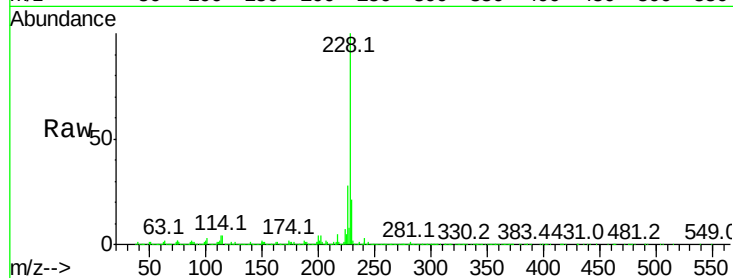




#80
Benzo(a)anthracene
Concen: 93.26 ng/ul
RT: 21.43 min Scan# 3118
Delta R.T. 0.01 min
Lab File: BM010569.D
Acq: 13 Jun 2017 20:32

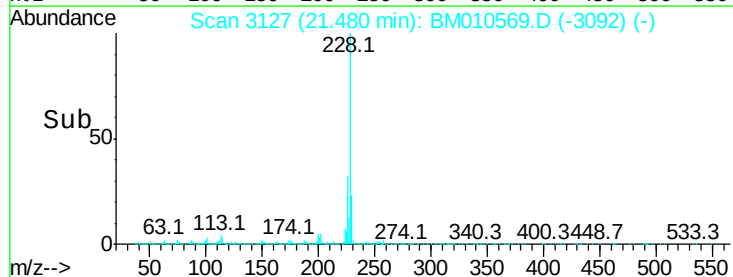
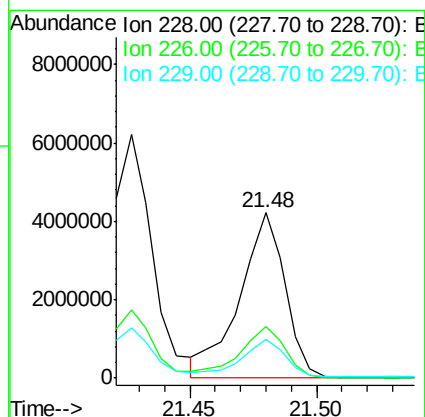
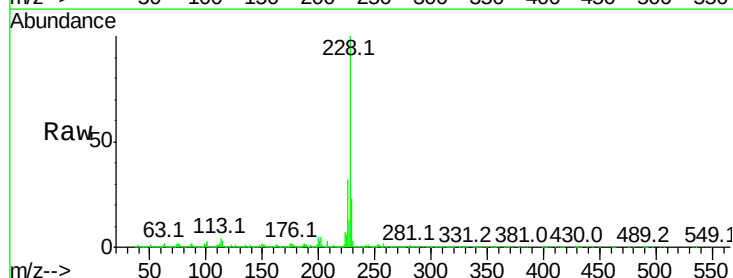
Instrument :
BNA_M
ClientSampleId :

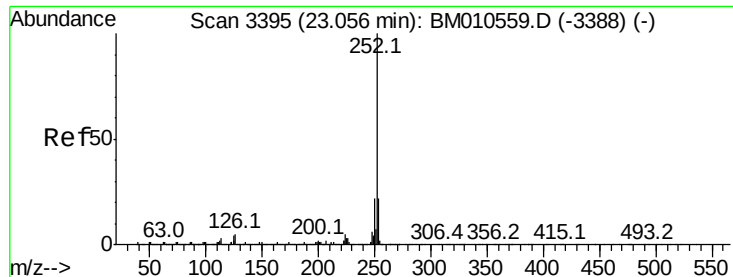
Tot Ion:228 Resp: 7561113
Ion Ratio Lower Upper
228 100
229 20.8 15.4 23.0
226 27.8 21.4 32.0



#82
Chrysene
Concen: 70.89 ng/ul
RT: 21.48 min Scan# 3127
Delta R.T. 0.01 min
Lab File: BM010569.D
Acq: 13 Jun 2017 20:32

Tgt Ion:228 Resp: 5195559
Ion Ratio Lower Upper
228 100
226 31.6 23.4 35.2
229 23.2 15.5 23.3





#85

Benzo(b)fluoranthene

Concen: 50.32 ng/ul

RT: 23.06 min Scan# 3396

Delta R.T. 0.01 min

Lab File: BM010569.D

Acq: 13 Jun 2017 20:32

Instrument :

BNA_M

ClientSampleId :

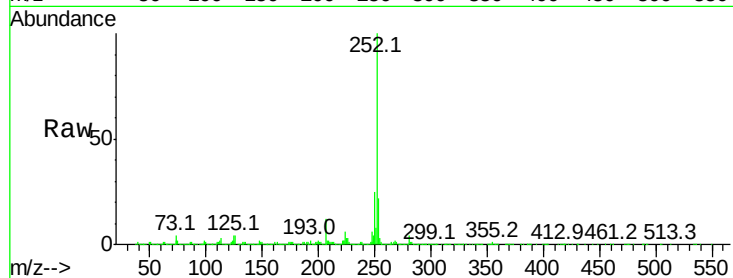
Tot Ion:252 Resp: 3635119

Ion Ratio Lower Upper

252 100

253 22.1 17.9 26.9

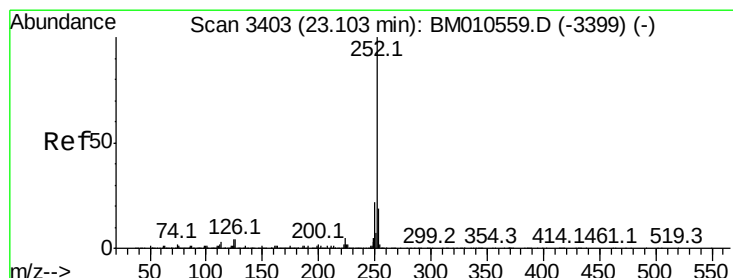
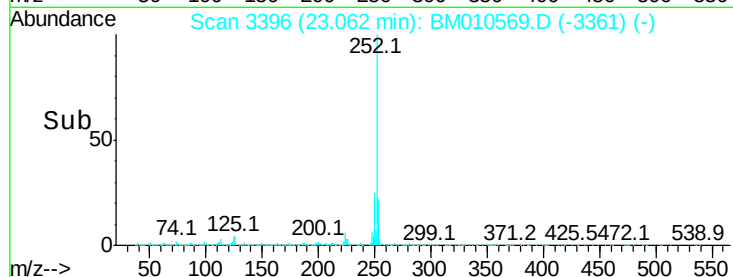
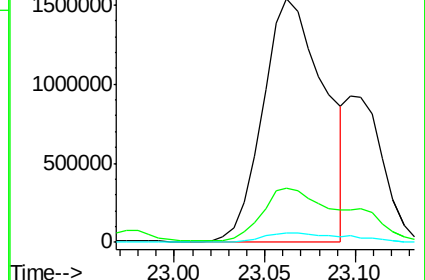
125 3.9 3.6 5.4



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#86

Benzo(k)fluoranthene

Concen: 52.67 ng/ul

RT: 23.06 min Scan# 3396

Delta R.T. -0.04 min

Lab File: BM010569.D

Acq: 13 Jun 2017 20:32

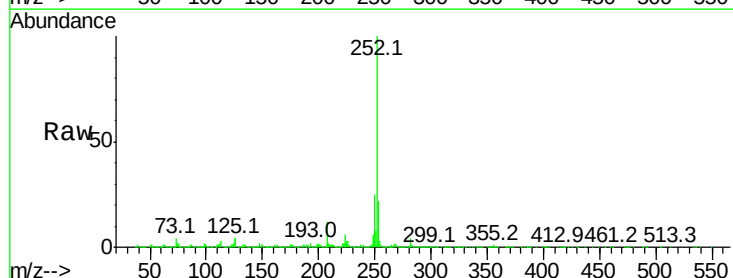
Tgt Ion:252 Resp: 3635119

Ion Ratio Lower Upper

252 100

253 22.1 17.1 25.7

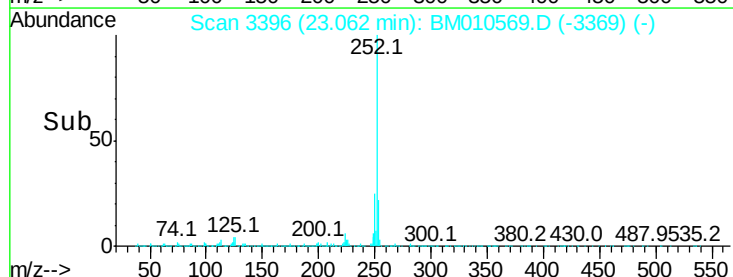
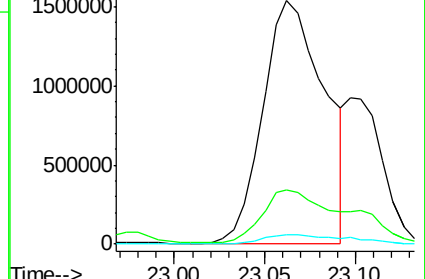
125 3.9 3.4 5.2

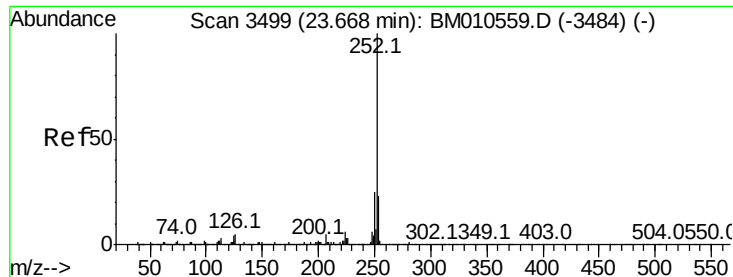


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#88

Benzo(a)pyrene

Concen: 17.34 ng/ul

RT: 23.57 min Scan# 3482

Delta R.T. -0.10 min

Lab File: BM010569.D

Acq: 13 Jun 2017 20:32

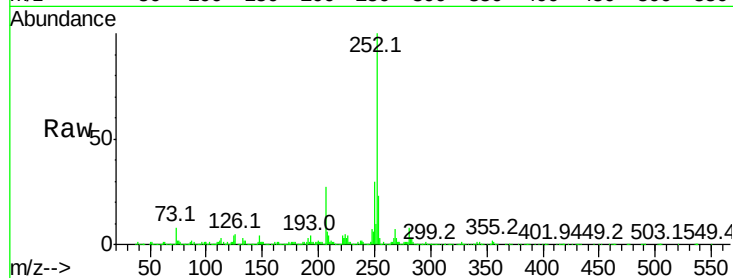
Instrument :

BNA_M

ClientSampleId :

Tot Ion:252 Resp: 1241834

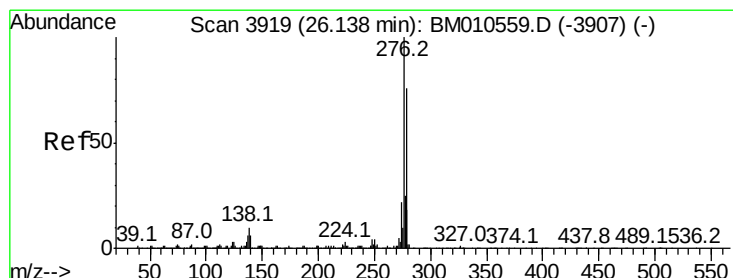
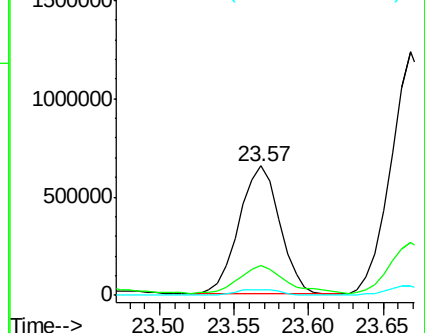
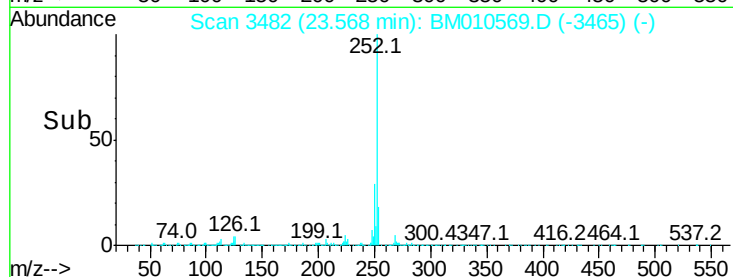
Ion	Ratio	Lower	Upper
252	100		
253	23.3	18.2	27.2
125	4.2	4.0	6.0



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#89

Indeno(1,2,3-cd)pyrene

Concen: 8.11 ng/ul

RT: 26.14 min Scan# 3919

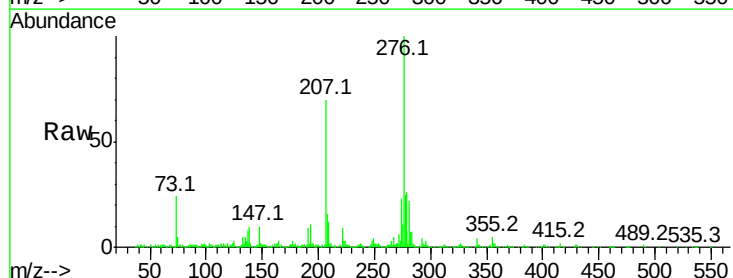
Delta R.T. -0.00 min

Lab File: BM010569.D

Acq: 13 Jun 2017 20:32

Tgt Ion:276 Resp: 733491

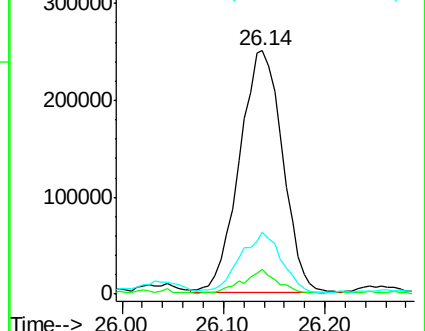
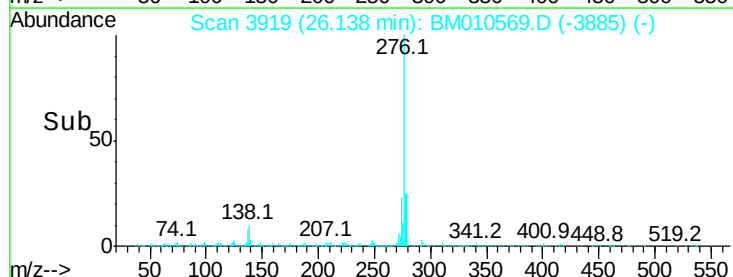
Ion	Ratio	Lower	Upper
276	100		
138	10.2	9.3	13.9
277	25.5	19.9	29.9

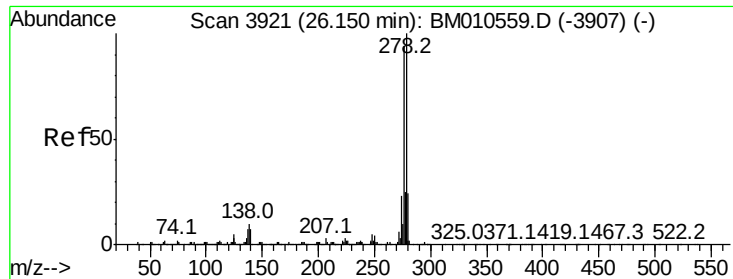


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#90

Dibenzo(a,h)anthracene

Concen: 2.71 ng/ul

RT: 26.14 min Scan# 3919

Delta R.T. -0.01 min

Lab File: BM010569.D

Acq: 13 Jun 2017 20:32

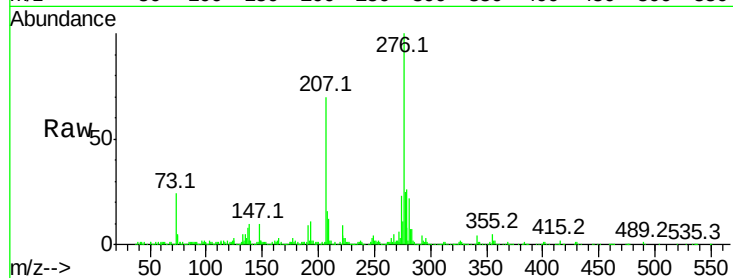
Instrument :

BNA_M

ClientSampleId :

Tot Ion:278 Resp: 210781

Ion	Ratio	Lower	Upper
278	100		
139	18.4	5.8	8.8#
279	31.7	18.6	27.8#

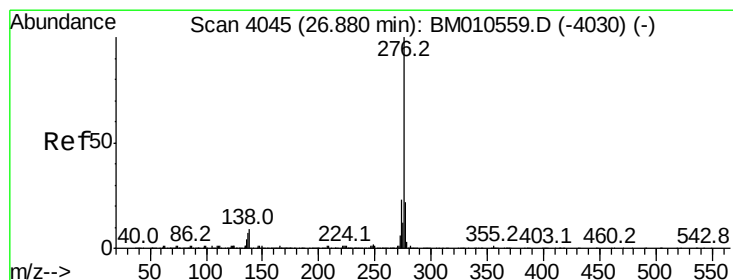
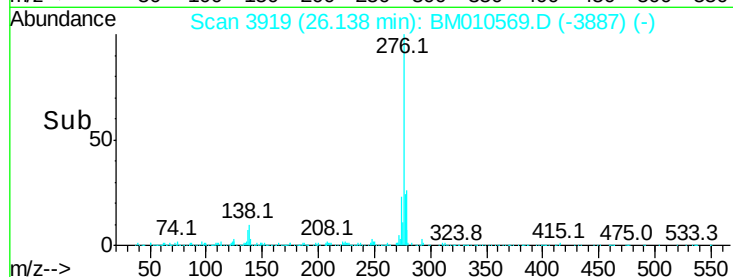
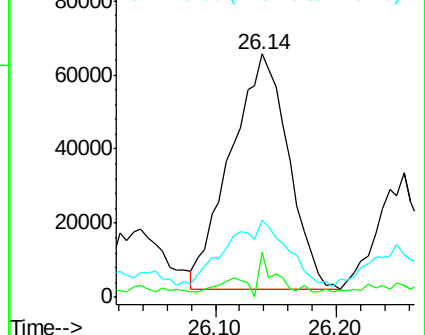


Abundance

Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#91

Benzo(g,h,i)perylene

Concen: 6.11 ng/ul

RT: 26.88 min Scan# 4045

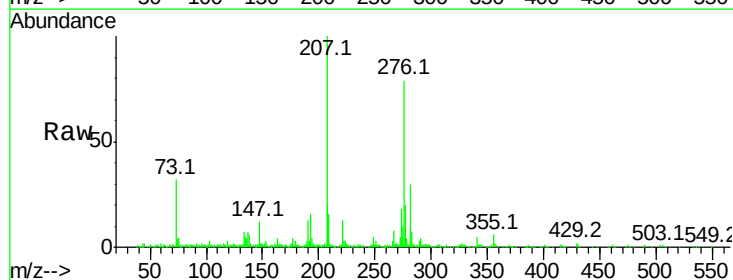
Delta R.T. -0.00 min

Lab File: BM010569.D

Acq: 13 Jun 2017 20:32

Tgt Ion:276 Resp: 455490

Ion	Ratio	Lower	Upper
276	100		
138	7.5	8.5	12.7#
277	25.7	18.6	28.0



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

