

Data Path : Z:\HPCHEM1\BNA M\DATA\BM120617\
 Data File : BM013236.D
 Acq On : 07 Dec 2017 07:03
 Operator : SJ/JU
 Sample : I6713-04
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 BE1B2

Quant Time: Dec 07 08:08:50 2017
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM113017.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Thu Dec 07 04:35:17 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.70	152	390266	20.00	ng/ul	0.00
18) Naphthalene-d8	10.49	136	1661318	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.35	164	913725	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.10	188	1773948	20.00	ng/ul	0.01
75) Chrysene-d12	21.29	240	1201444	20.00	ng/ul	0.01
83) Perylene-d12	23.52	264	1135015	20.00	ng/ul	0.02

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.25	96	25929	3.29	ng/uL	0.00
5) Phenol-d5	6.88	99	756050	22.39	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.05	67	435628	22.62	ng/ul	0.00
9) 2-Chlorophenol-d4	7.24	132	624098	23.65	ng/ul	0.00
13) 4-Methylphenol-d8	8.41	113	633665	21.97	ng/ul	0.00
19) Nitrobenzene-d5	8.86	128	313664	23.81	ng/ul	0.00
22) 2-Nitrophenol-d4	9.57	143	345202	24.48	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.11	165	669231	23.03	ng/ul	0.00
29) 4-Chloroaniline-d4	10.63	131	558116	20.90	ng/ul	0.00
43) Dimethylphthalate-d6	13.76	166	1942314	23.89	ng/ul	0.00
46) Acenaphthylene-d8	14.04	160	2442582	24.34	ng/ul	0.00
51) 4-Nitrophenol-d4	14.56	143	288012	20.39	ng/ul	0.01
57) Fluorene-d10	15.35	176	1612297	23.06	ng/ul	0.01
62) 4,6-Dinitro-2-methylphenol	15.47	200	134040	12.01	ng/ul	0.00
70) Anthracene-d10	17.20	188	2244299	25.26	ng/ul	0.01
76) Pyrene-d10	19.49	212	1935311	32.33	ng/ul	0.01
87) Benzo(a)pyrene-d12	23.38	264	1436181	24.84	ng/ul	0.02

Target Compounds

					Ovalue	
4) Benzaldehyde	6.86	77	39327	2.354	ng/ul#	69
6) Phenol	6.91	94	159651	4.783	ng/ul#	78
11) 2-Methylphenol	8.15	108	94252	3.651	ng/ul	99
14) Acetophenone	8.52	105	86651	1.975	ng/ul	87
16) 4-Methylphenol	8.47	108	27849	1.009	ng/ul	89
28) Naphthalene	10.53	128	3447789	40.338	ng/ul	99
30) 4-Chloroaniline	10.54	127	441209	17.065	ng/ul#	13
34) 2-Methylnaphthalene	12.15	142	767855	11.951	ng/ul	95
40) 1,1'-Biphenyl	13.17	154	272845	3.533	ng/ul	99
44) Dimethylphthalate	13.81	163	534206	6.869	ng/ul	97
47) Acenaphthylene	14.06	152	92901	1.000	ng/ul	93
49) Acenaphthene	14.41	153	823555	13.020	ng/ul	98
53) Dibenzofuran	14.75	168	1043598	11.176	ng/ul	98
58) Fluorene	15.40	166	786465	10.181	ng/ul	99
69) Phenanthrene	17.14	178	4972579	49.340	ng/ul	99
71) Anthracene	17.23	178	1204356	11.691	ng/ul	98
72) Carbazole	17.50	167	376827	4.253	ng/ul	99
74) Fluoranthene	19.16	202	4062362	32.892	ng/ul#	93
77) Pyrene	19.52	202	3111511	42.629	ng/ul#	92
80) Benzo(a)anthracene	21.27	228	1245040	16.333	ng/ul	97
81) Bis(2-ethylhexyl)phthalate	21.20	149	450866	10.489	ng/ul	99
82) Chrysene	21.32	228	1076950	15.228	ng/ul	96
85) Benzo(b)fluoranthene	22.85	252	1239627	16.202	ng/ul#	95

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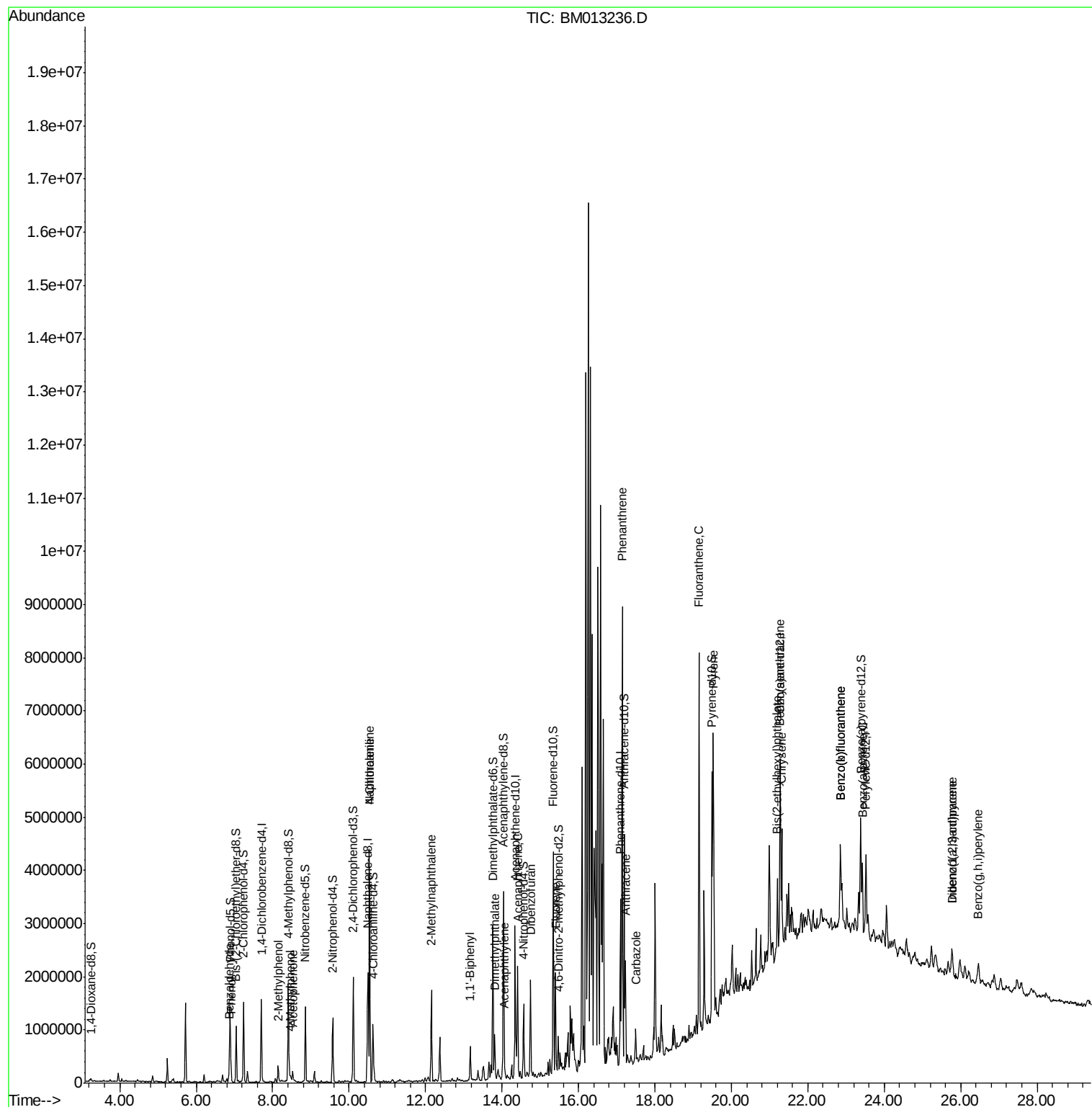
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
86) Benzo(k)fluoranthene	22.85	252	1239627	17.216	ng/ul#	93
88) Benzo(a)pyrene	23.43	252	851988	12.396	ng/ul#	94
89) Indeno(1,2,3-cd)pyrene	25.77	276	529930	7.771	ng/ul#	95
90) Dibenzo(a,h)anthracene	25.77	278	145783	2.510	ng/ul#	62
91) Benzo(g,h,i)perylene	26.46	276	474061	8.813	ng/ul#	92

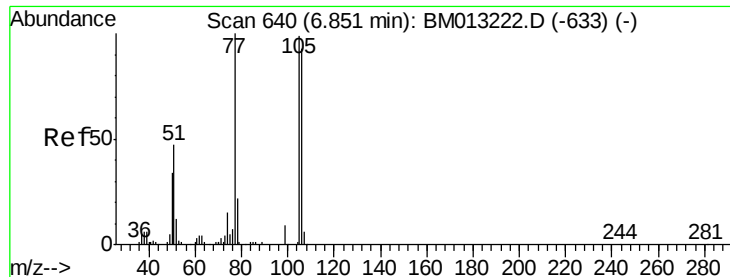
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#4

Benzaldehyde

Concen: 2.354 ng/ul

RT: 6.86 min Scan# 641

Delta R.T. 0.01 min

Lab File: BM013236.D

Acq: 07 Dec 2017 07:03

Instrument :

BNA_M

ClientSampleId :

BE1B2

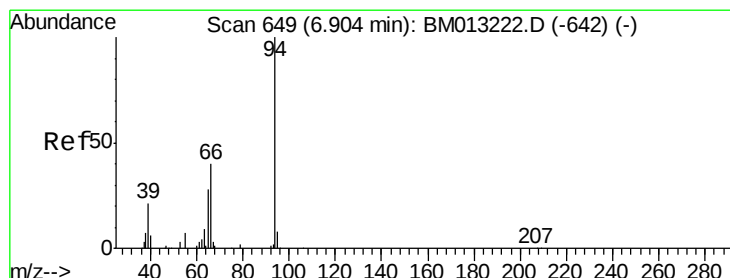
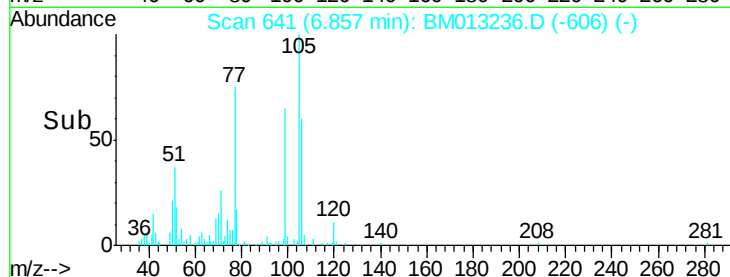
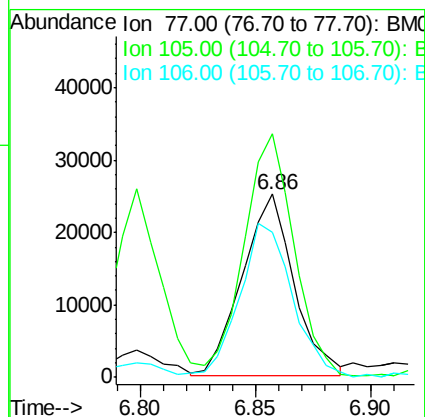
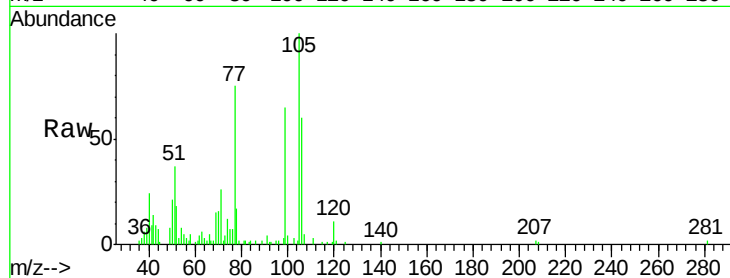
Tot Ion: 77 Resp: 39327

Ion Ratio Lower Upper

77 100

105 132.7 66.1 99.1#

106 79.2 67.8 101.6



#6

Phenol

Concen: 4.783 ng/ul

RT: 6.91 min Scan# 650

Delta R.T. 0.01 min

Lab File: BM013236.D

Acq: 07 Dec 2017 07:03

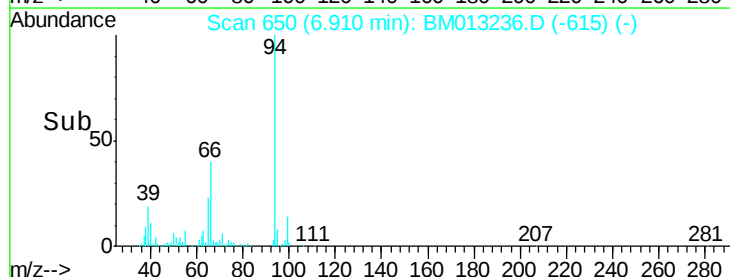
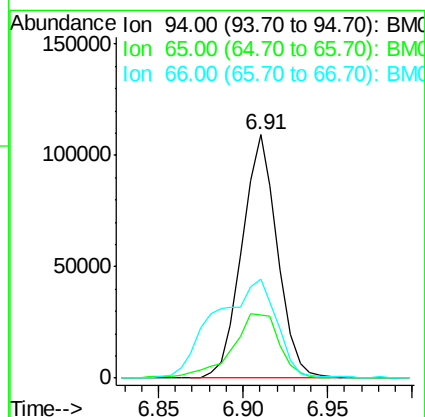
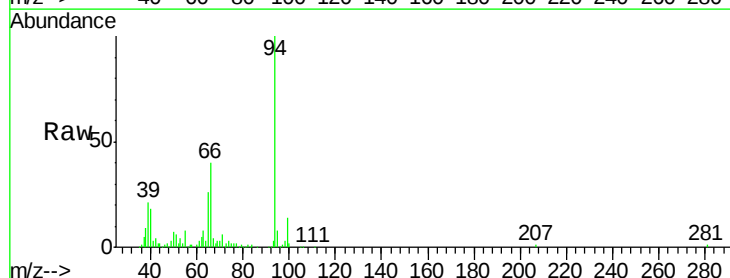
Tgt Ion: 94 Resp: 159651

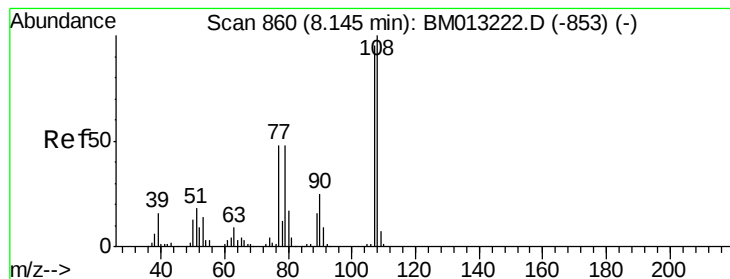
Ion Ratio Lower Upper

94 100

65 25.8 28.2 42.4#

66 40.4 47.2 70.8#





#11

2-Methylphenol

Concen: 3.651 ng/ul

RT: 8.15 min Scan# 860

Delta R.T. 0.00 min

Lab File: BM013236.D

Acq: 07 Dec 2017 07:03

Instrument :

BNA_M

ClientSampleId :

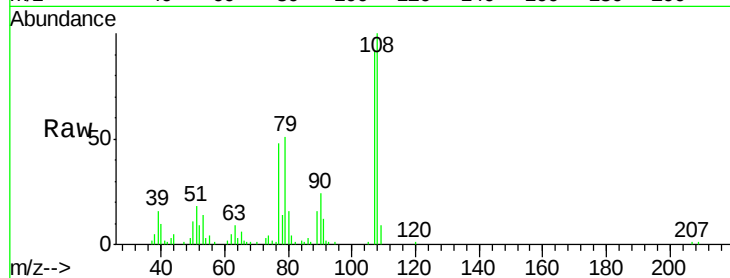
BE1B2

Tot Ion:108 Resp: 94252

Ion Ratio Lower Upper

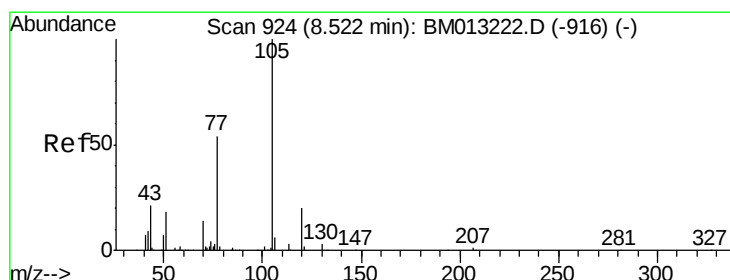
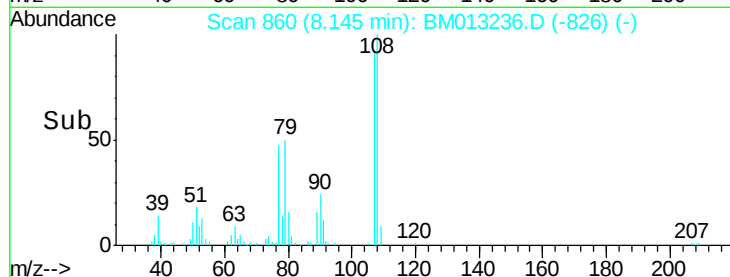
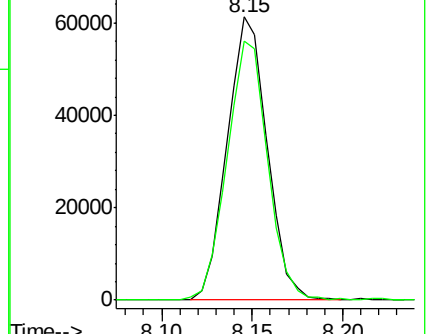
108 100

107 91.7 72.6 108.8



Abundance Ion 108.00 (107.70 to 108.70): E

Ion 107.00 (106.70 to 107.70): E



#14

Acetophenone

Concen: 1.975 ng/ul

RT: 8.52 min Scan# 924

Delta R.T. 0.00 min

Lab File: BM013236.D

Acq: 07 Dec 2017 07:03

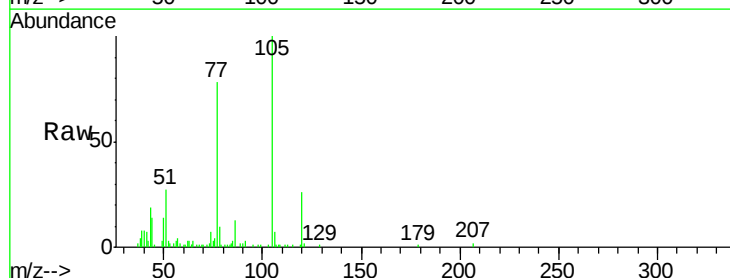
Tgt Ion:105 Resp: 86651

Ion Ratio Lower Upper

105 100

77 77.8 74.2 111.4

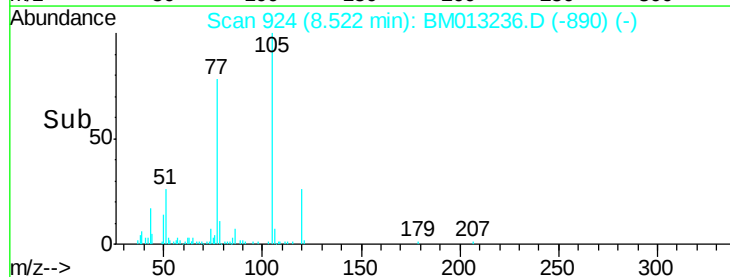
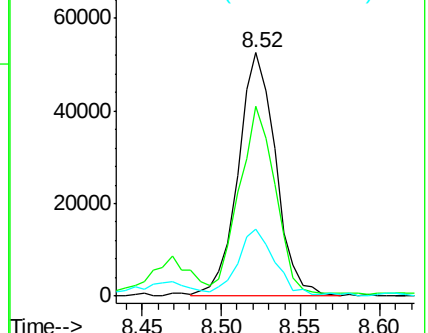
51 27.4 23.4 35.2

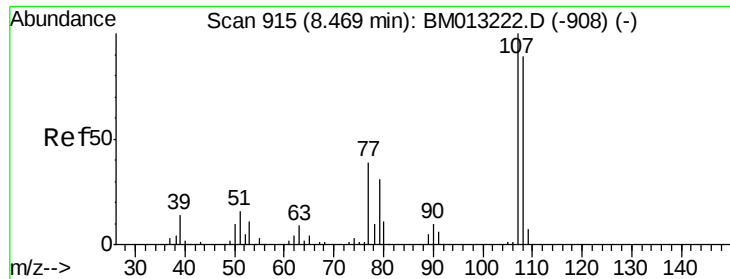


Abundance Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BM0

Ion 51.00 (50.70 to 51.70): BM0

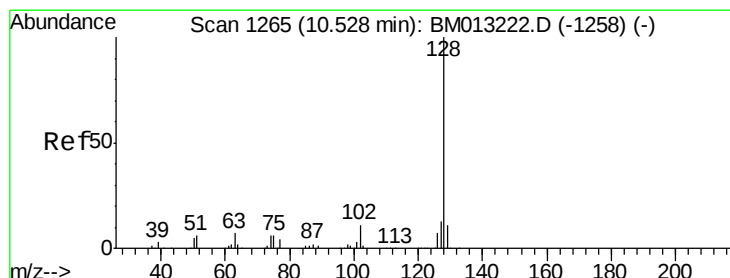
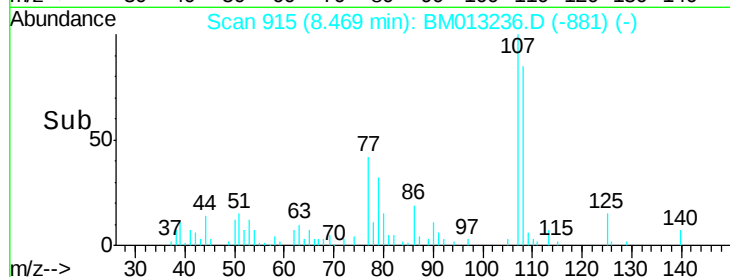
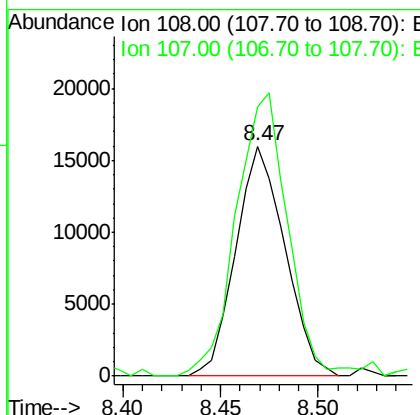
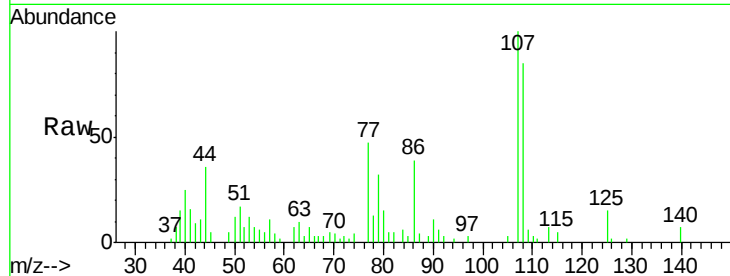




#16
4-Methylphenol
Concen: 1.009 ng/ul
RT: 8.47 min Scan# 915
Delta R.T. 0.00 min
Lab File: BM013236.D
Acq: 07 Dec 2017 07:03

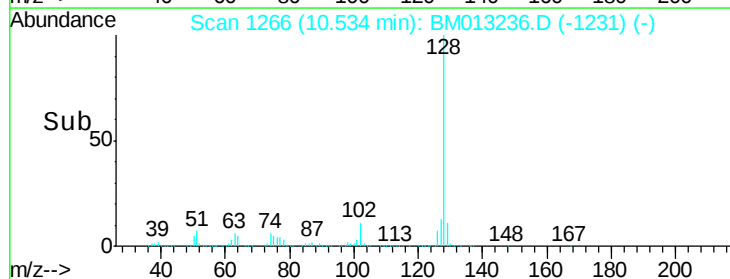
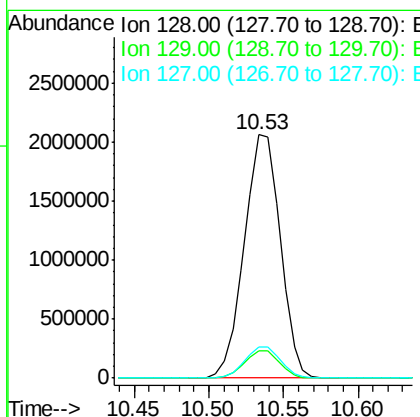
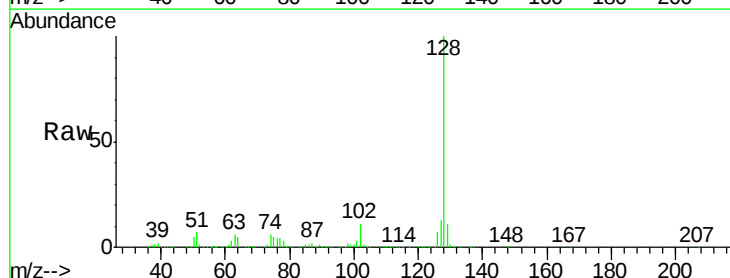
Instrument :
BNA_M
ClientSampleId :
BE1B2

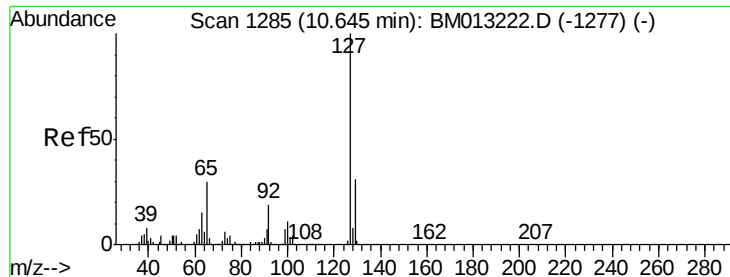
Tot Ion:108 Resp: 27849
Ion Ratio Lower Upper
108 100
107 117.1 84.9 127.3



#28
Naphthalene
Concen: 40.338 ng/ul
RT: 10.53 min Scan# 1266
Delta R.T. 0.01 min
Lab File: BM013236.D
Acq: 07 Dec 2017 07:03

Tgt Ion:128 Resp: 3447789
Ion Ratio Lower Upper
128 100
129 11.0 8.8 13.2
127 12.7 10.6 16.0

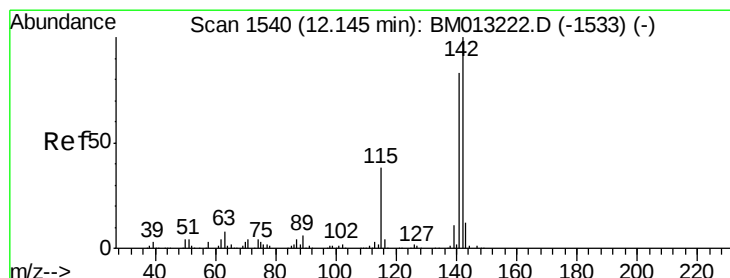
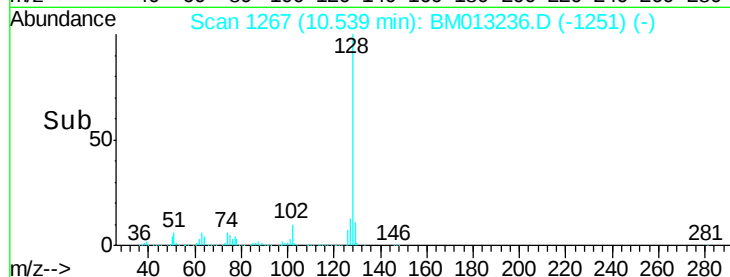
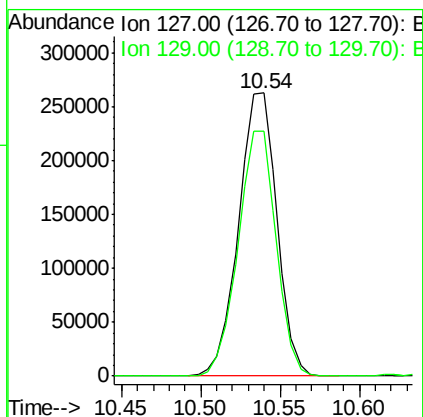
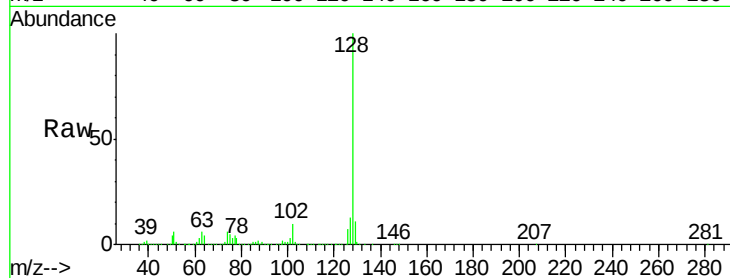




#30
4-Chloroaniline
Concen: 17.065 ng/ul
RT: 10.54 min Scan# 1267
Delta R.T. -0.11 min
Lab File: BM013236.D
Acq: 07 Dec 2017 07:03

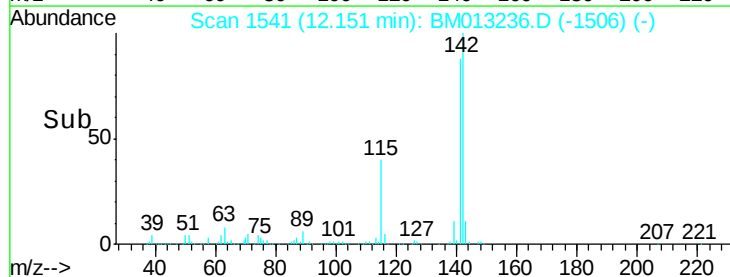
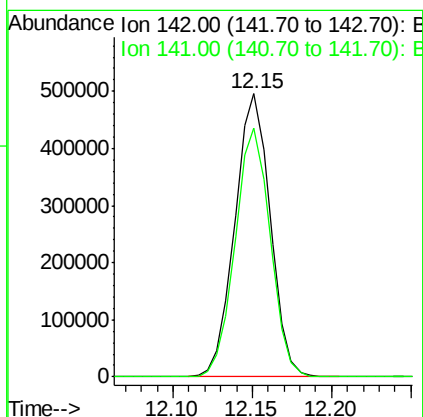
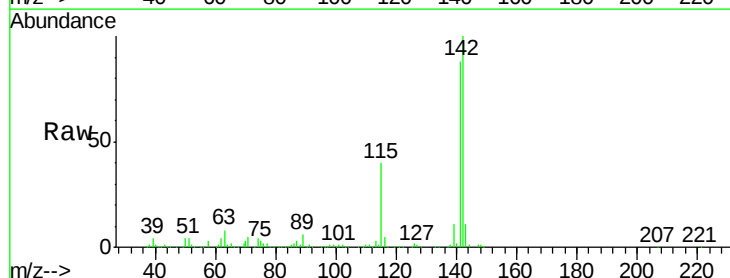
Instrument :
BNA_M
ClientSampleId :
BE1B2

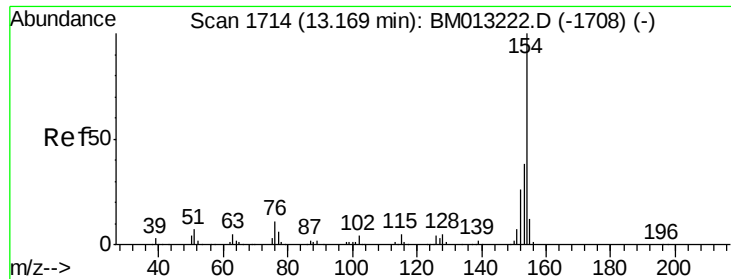
Tot Ion:127 Resp: 441209
Ion Ratio Lower Upper
127 100
129 86.4 28.4 42.6#



#34
2-Methylnaphthalene
Concen: 11.951 ng/ul
RT: 12.15 min Scan# 1541
Delta R.T. 0.01 min
Lab File: BM013236.D
Acq: 07 Dec 2017 07:03

Tgt Ion:142 Resp: 767855
Ion Ratio Lower Upper
142 100
141 88.0 74.1 111.1

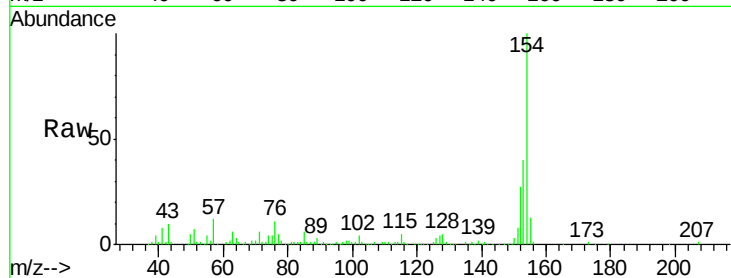




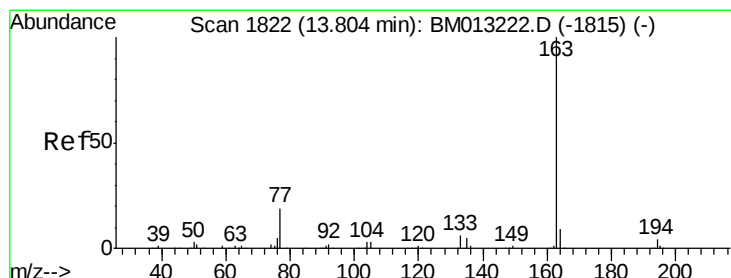
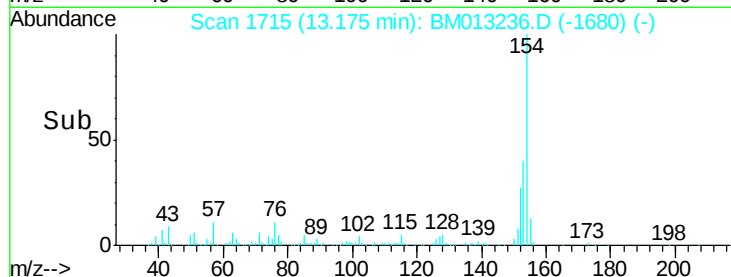
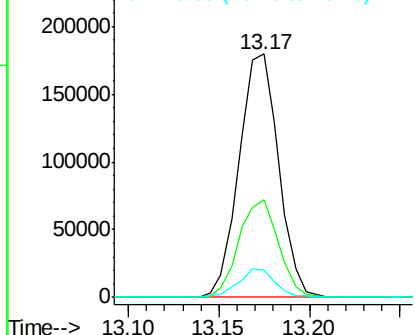
#40
 1,1'-Biphenyl
 Concen: 3.533 ng/ul
 RT: 13.17 min Scan# 1715
 Delta R.T. 0.01 min
 Lab File: BM013236.D
 Acq: 07 Dec 2017 07:03

Instrument :
 BNA_M
 ClientSampleId :
 BE1B2

Tot Ion	Ratio	Lower	Upper
154	100		
153	40.2	32.6	48.8
76	11.3	8.5	12.7

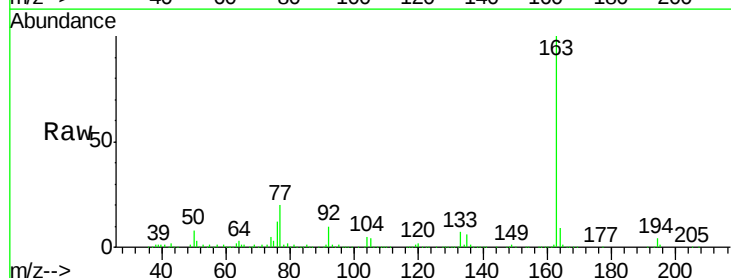


Abundance Ion 154.00 (153.70 to 154.70): E
 Ion 153.00 (152.70 to 153.70): E
 Ion 76.00 (75.70 to 76.70): BM0

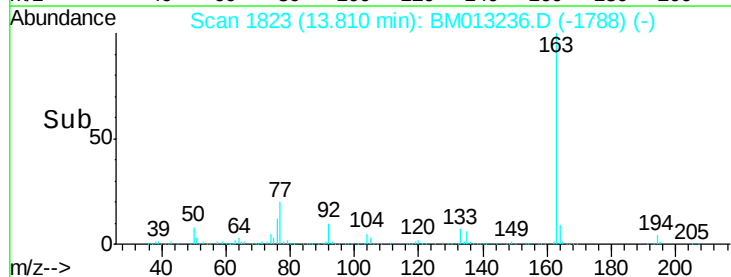
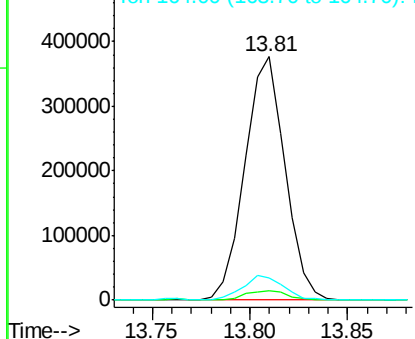


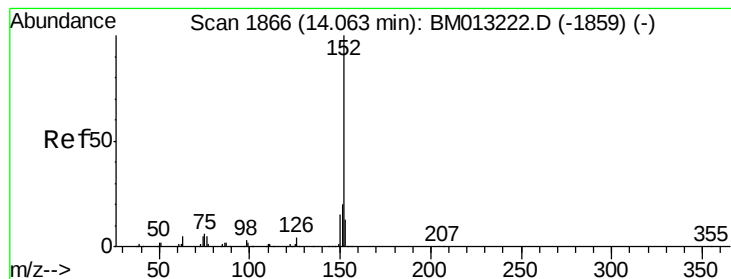
#44
 Dimethylphthalate
 Concen: 6.869 ng/ul
 RT: 13.81 min Scan# 1823
 Delta R.T. 0.01 min
 Lab File: BM013236.D
 Acq: 07 Dec 2017 07:03

Tgt Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.5	5.3
164	9.1	8.2	12.4



Abundance Ion 163.00 (162.70 to 163.70): E
 Ion 194.00 (193.70 to 194.70): E
 Ion 164.00 (163.70 to 164.70): E





#47

Acenaphthylene

Concen: 1.000 ng/ul

RT: 14.06 min Scan# 1866

Delta R.T. 0.00 min

Lab File: BM013236.D

Acq: 07 Dec 2017 07:03

Instrument :

BNA_M

ClientSampleId :

BE1B2

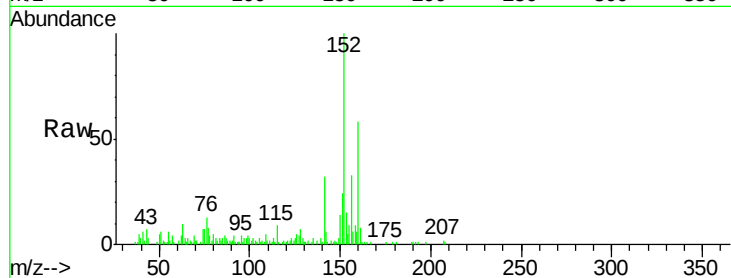
Tot Ion:152 Resp: 92901

Ion Ratio Lower Upper

152 100

151 23.6 16.3 24.5

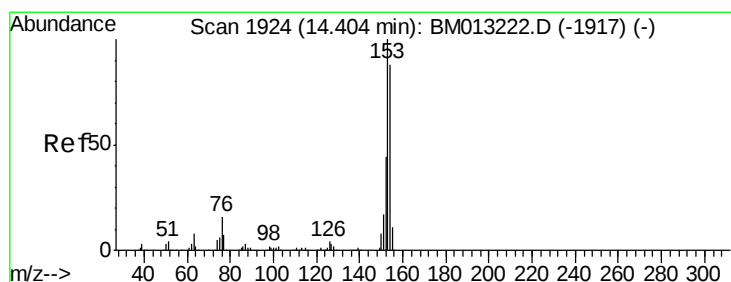
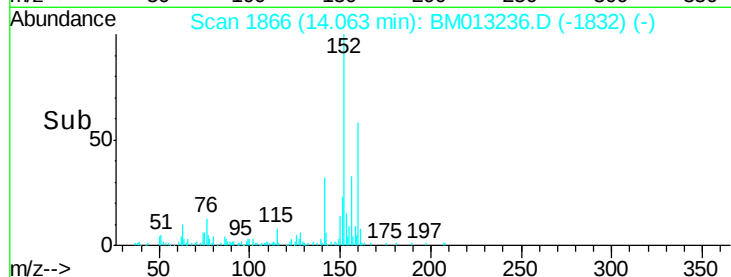
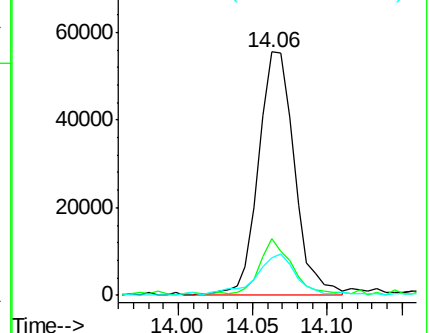
153 15.2 10.2 15.4



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: 13.020 ng/ul

RT: 14.41 min Scan# 1925

Delta R.T. 0.01 min

Lab File: BM013236.D

Acq: 07 Dec 2017 07:03

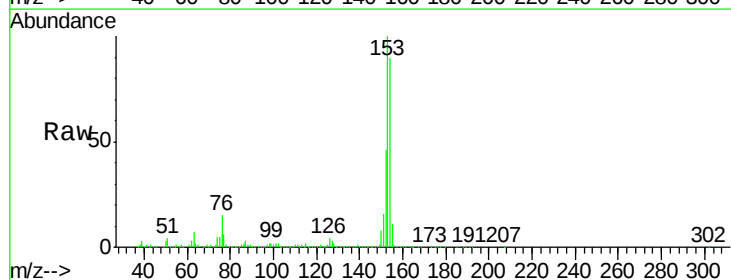
Tgt Ion:153 Resp: 823555

Ion Ratio Lower Upper

153 100

152 46.1 37.6 56.4

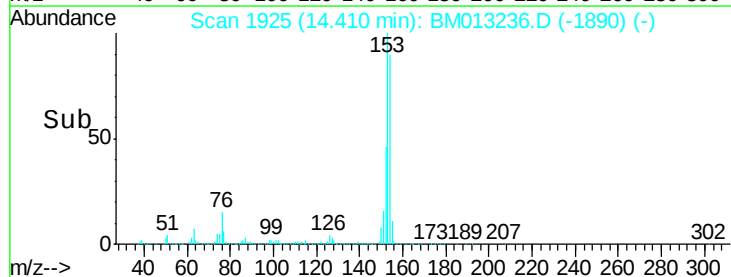
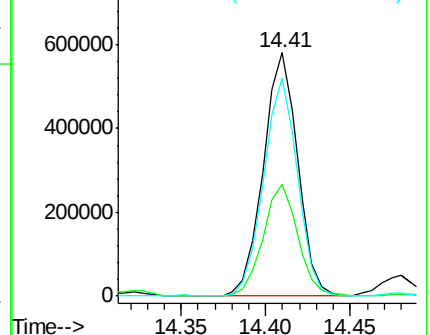
154 89.5 70.4 105.6

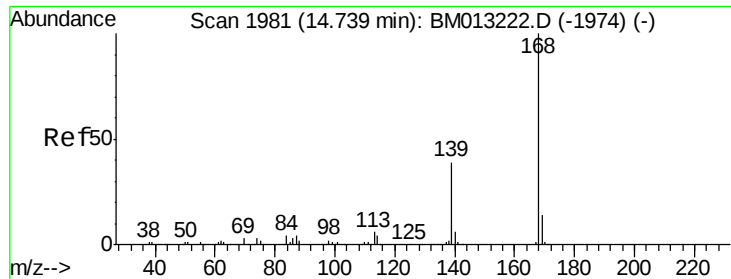


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E





#53

Dibenzofuran

Concen: 11.176 ng/ul

RT: 14.75 min Scan# 1982

Delta R.T. 0.01 min

Lab File: BM013236.D

Acq: 07 Dec 2017 07:03

Instrument :

BNA_M

ClientSampleId :

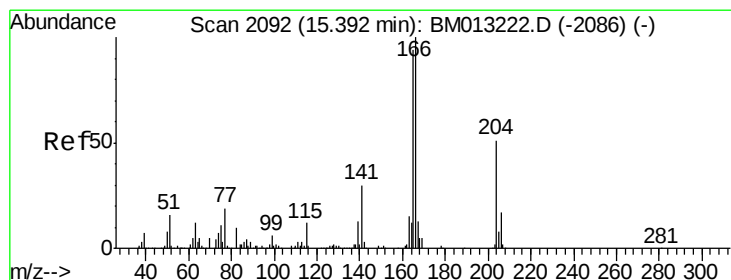
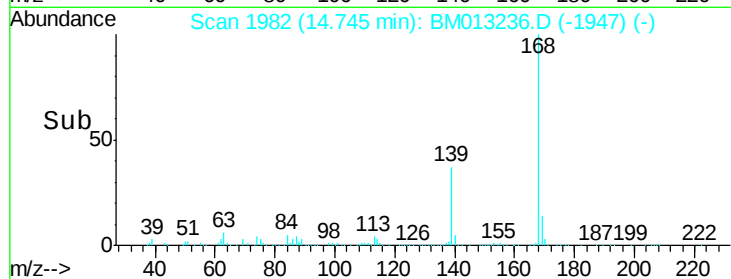
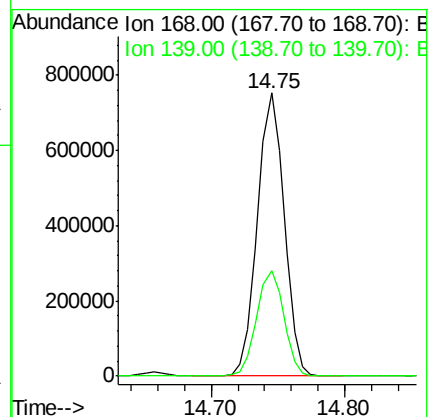
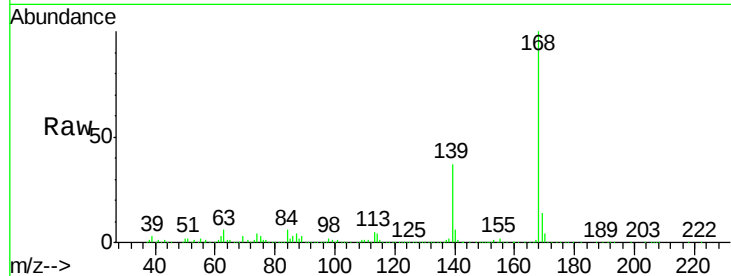
BE1B2

Tot Ion:168 Resp: 1043598

Ion Ratio Lower Upper

168 100

139 37.4 30.8 46.2



#58

Fluorene

Concen: 10.181 ng/ul

RT: 15.40 min Scan# 2093

Delta R.T. 0.01 min

Lab File: BM013236.D

Acq: 07 Dec 2017 07:03

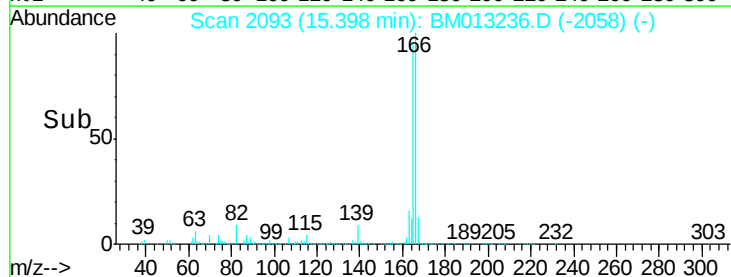
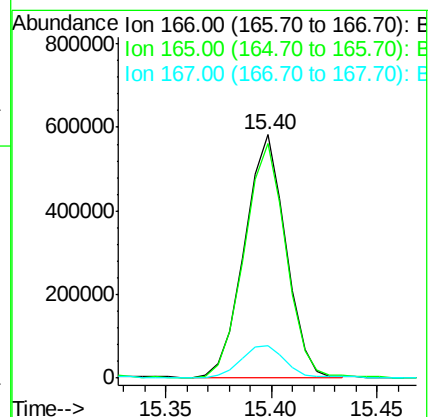
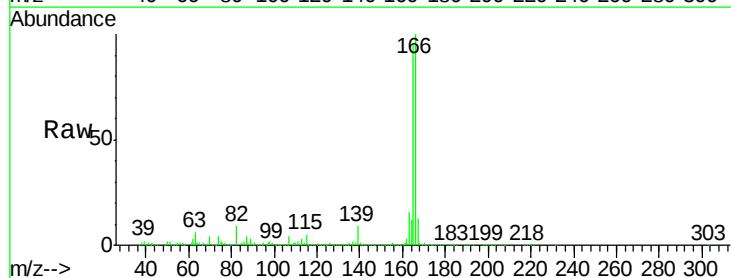
Tgt Ion:166 Resp: 786465

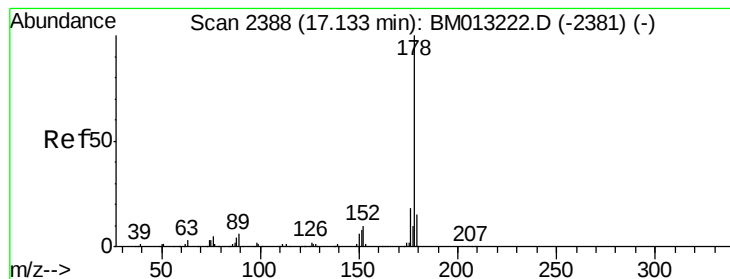
Ion Ratio Lower Upper

166 100

165 96.2 77.9 116.9

167 13.3 10.6 16.0





#69

Phenanthrene

Concen: 49.340 ng/ul

RT: 17.14 min Scan# 2390

Delta R.T. 0.01 min

Lab File: BM013236.D

Acq: 07 Dec 2017 07:03

Instrument :

BNA_M

ClientSampleId :

BE1B2

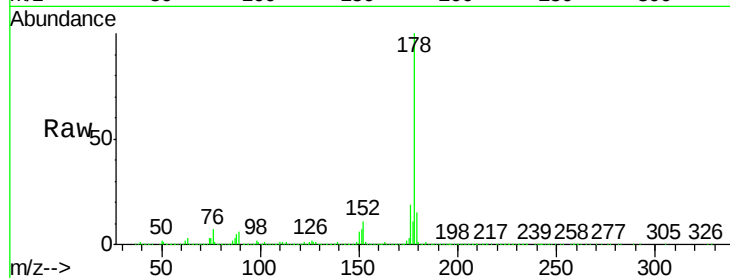
Tot Ion:178 Resp: 4972579

Ion Ratio Lower Upper

178 100

179 15.4 12.6 19.0

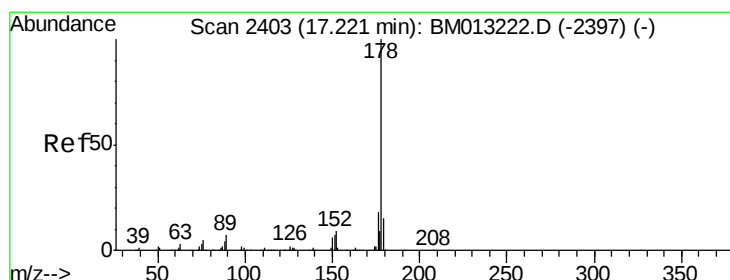
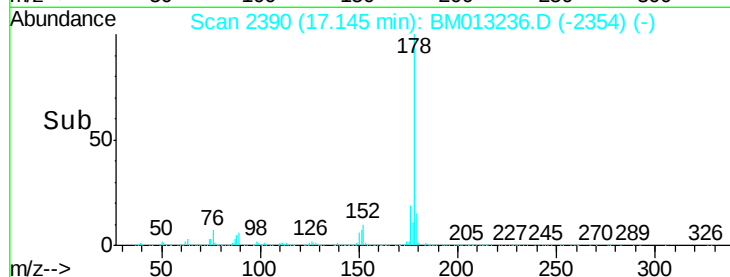
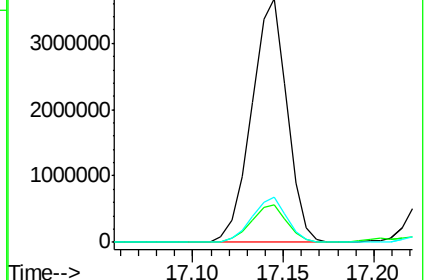
176 18.7 14.9 22.3



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



#71

Anthracene

Concen: 11.691 ng/ul

RT: 17.23 min Scan# 2405

Delta R.T. 0.01 min

Lab File: BM013236.D

Acq: 07 Dec 2017 07:03

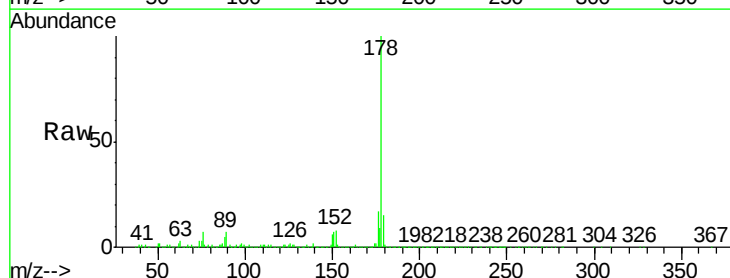
Tgt Ion:178 Resp: 1204356

Ion Ratio Lower Upper

178 100

179 15.0 11.7 17.5

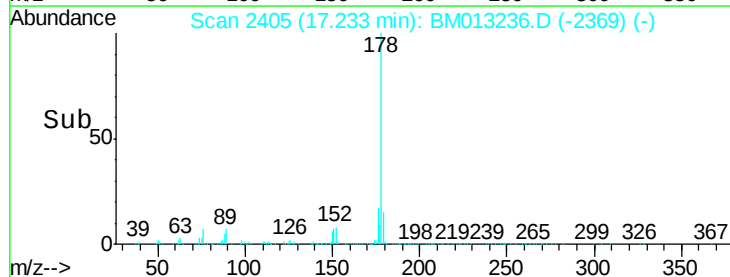
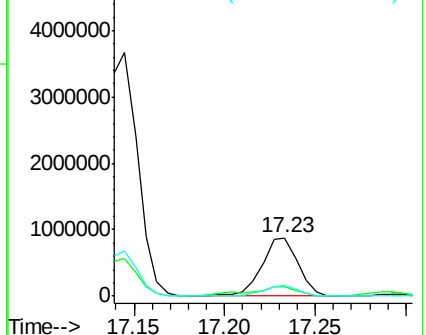
176 17.2 14.6 21.8

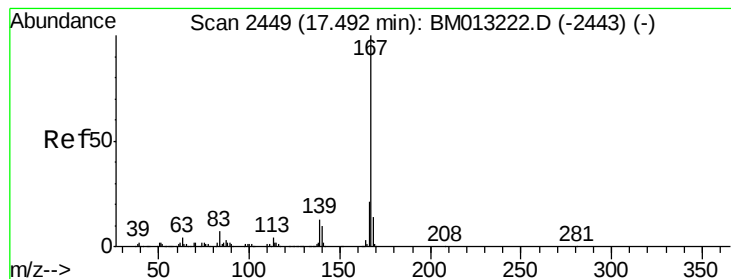


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#72

Carbazole

Concen: 4.253 ng/ul

RT: 17.50 min Scan# 2450

Delta R.T. 0.01 min

Lab File: BM013236.D

Acq: 07 Dec 2017 07:03

Instrument :

BNA_M

ClientSampleId :

BE1B2

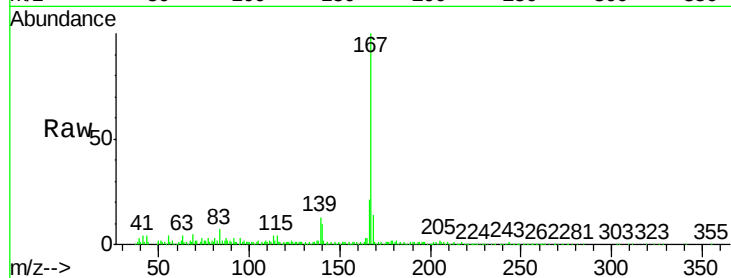
Tot Ion:167 Resp: 376827

Ion Ratio Lower Upper

167 100

166 20.8 17.1 25.7

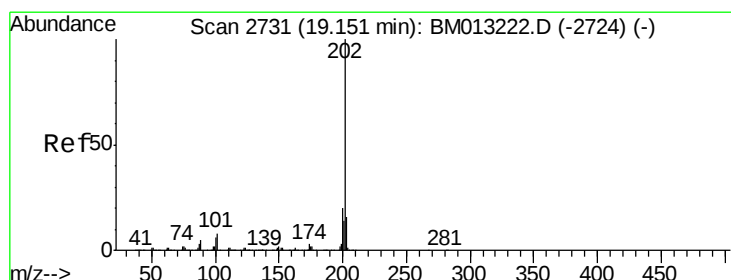
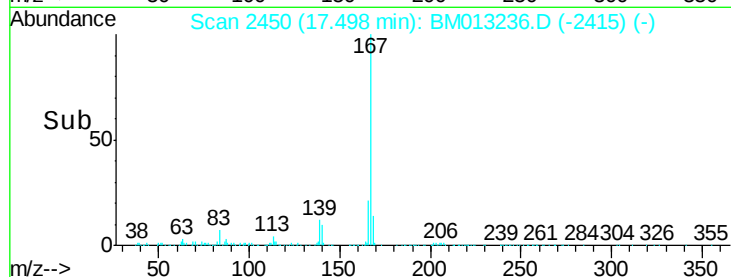
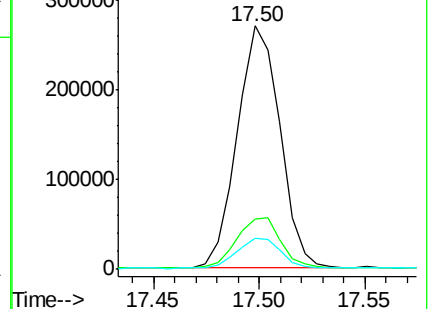
139 12.7 10.0 15.0



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



#74

Fluoranthene

Concen: 32.892 ng/ul

RT: 19.16 min Scan# 2732

Delta R.T. 0.01 min

Lab File: BM013236.D

Acq: 07 Dec 2017 07:03

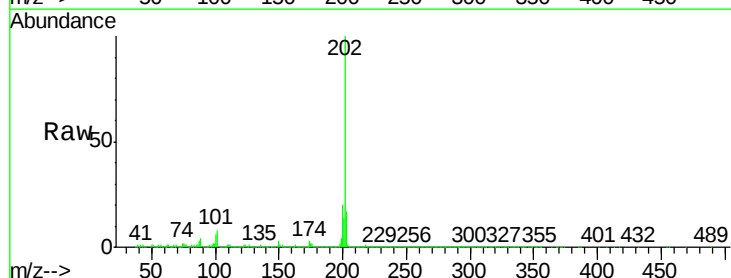
Tgt Ion:202 Resp: 4062362

Ion Ratio Lower Upper

202 100

101 8.2 4.6 7.0#

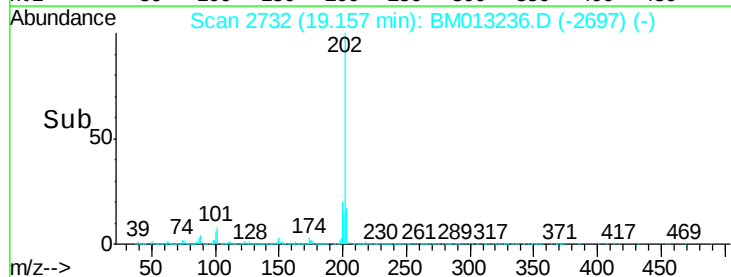
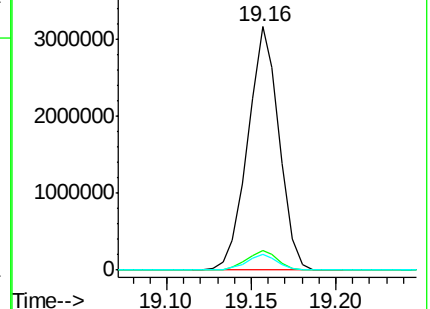
100 6.3 3.4 5.2#

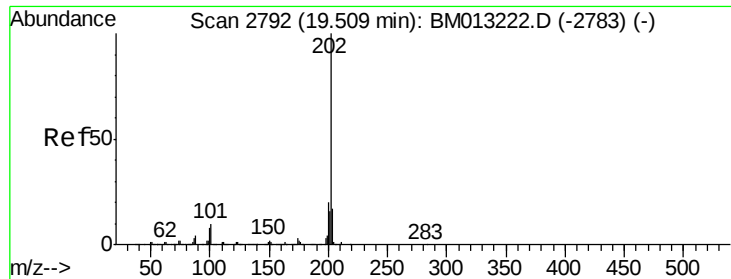


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





#77

Pvrene

Concen: 42.629 ng/ul

RT: 19.52 min Scan# 2794

Delta R.T. 0.01 min

Lab File: BM013236.D

Acq: 07 Dec 2017 07:03

Instrument :

BNA_M

ClientSampleId :

BE1B2

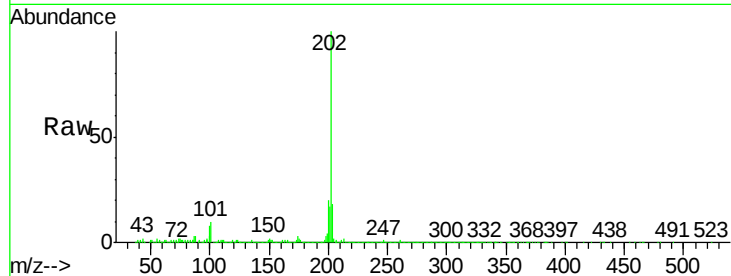
Tot Ion:202 Resp: 3111511

Ion Ratio Lower Upper

202 100

101 9.6 5.1 7.7#

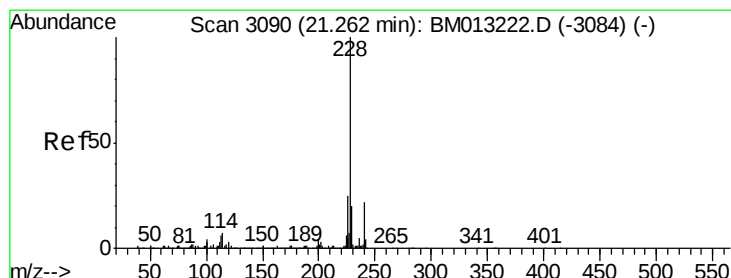
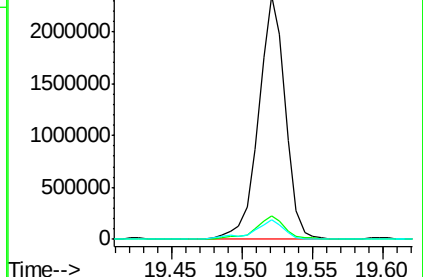
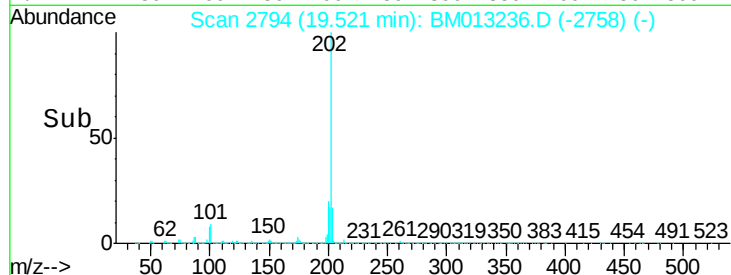
100 8.1 4.9 7.3#



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



#80

Benzo(a)anthracene

Concen: 16.333 ng/ul

RT: 21.27 min Scan# 3091

Delta R.T. 0.01 min

Lab File: BM013236.D

Acq: 07 Dec 2017 07:03

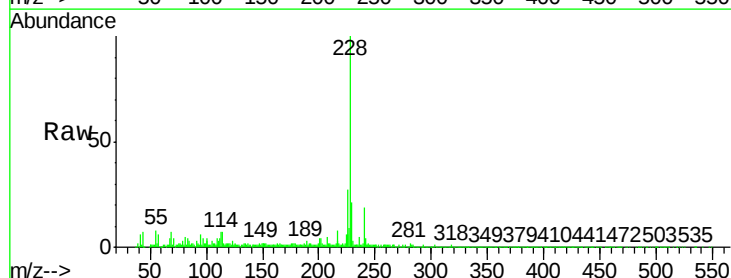
Tgt Ion:228 Resp: 1245040

Ion Ratio Lower Upper

228 100

229 21.2 15.4 23.0

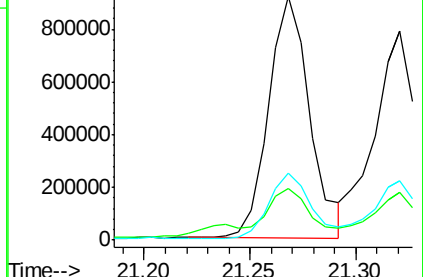
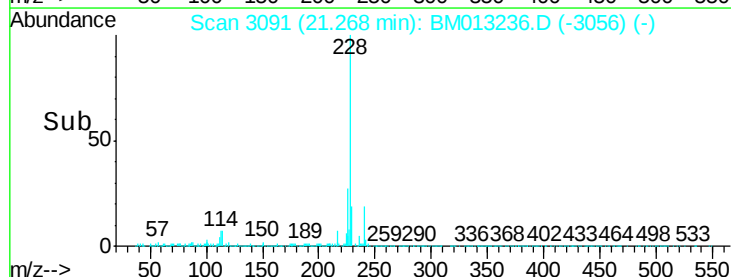
226 27.4 21.4 32.0

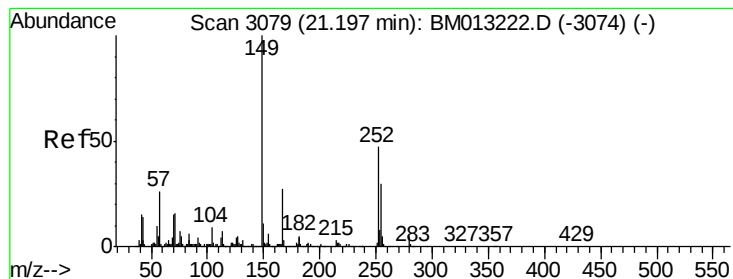


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E





#81

Bis(2-ethylhexyl)phthalate

Concen: 10.489 ng/ul

RT: 21.20 min Scan# 3080

Delta R.T. 0.01 min

Lab File: BM013236.D

Acq: 07 Dec 2017 07:03

Instrument :

BNA_M

ClientSampled :

BE1B2

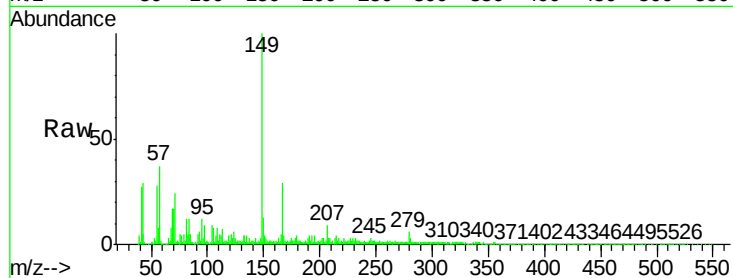
Tot Ion:149 Resp: 450866

Ion Ratio Lower Upper

149 100

167 28.8 22.8 34.2

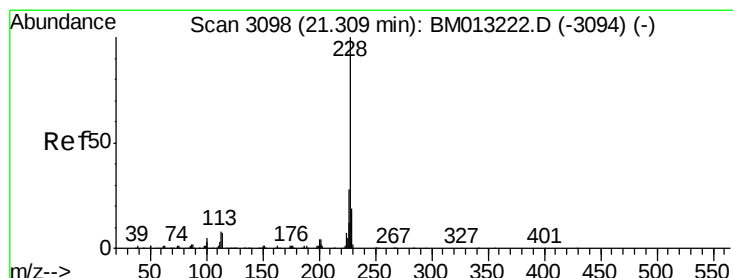
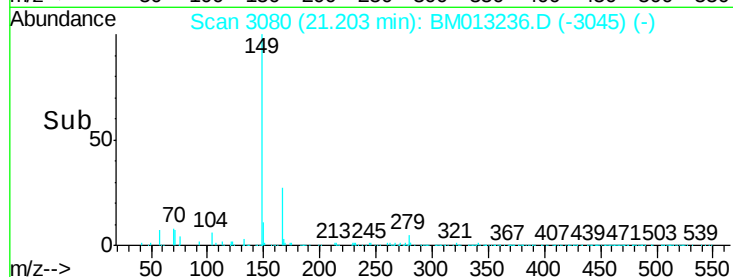
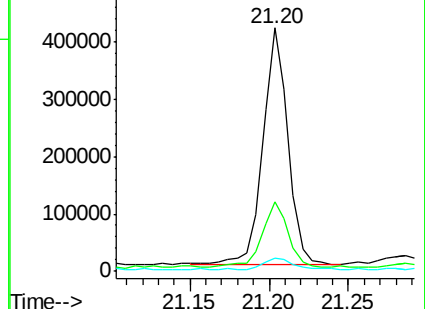
279 5.6 4.9 7.3



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#82

Chrysene

Concen: 15.228 ng/ul

RT: 21.32 min Scan# 3100

Delta R.T. 0.01 min

Lab File: BM013236.D

Acq: 07 Dec 2017 07:03

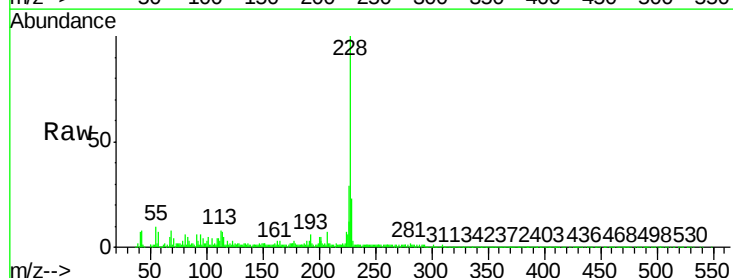
Tgt Ion:228 Resp: 1076950

Ion Ratio Lower Upper

228 100

226 28.6 23.4 35.2

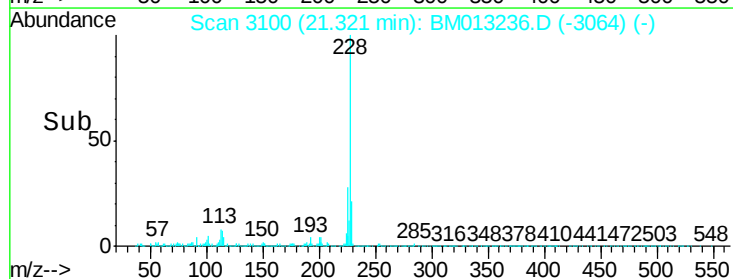
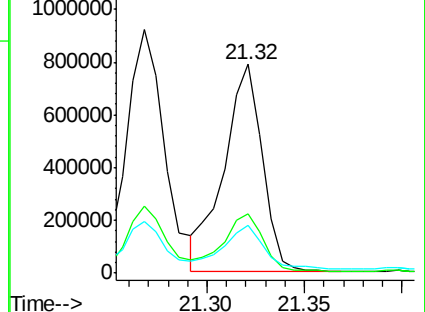
229 22.8 15.5 23.3

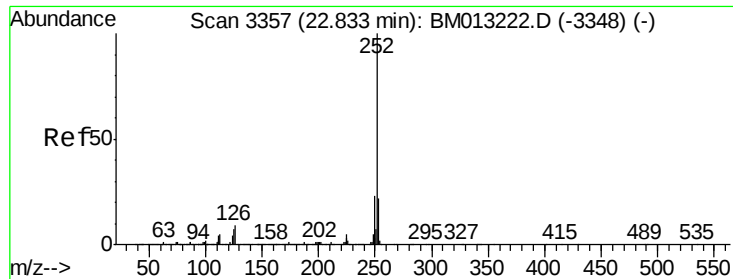


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#85

Benzo(b)fluoranthene

Concen: 16.202 ng/ul

RT: 22.85 min Scan# 3360

Delta R.T. 0.02 min

Lab File: BM013236.D

Acq: 07 Dec 2017 07:03

Instrument :

BNA_M

ClientSampleId :

BE1B2

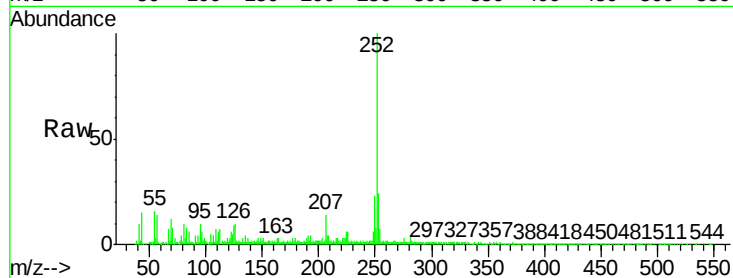
Tot Ion:252 Resp: 1239627

Ion Ratio Lower Upper

252 100

253 23.9 17.9 26.9

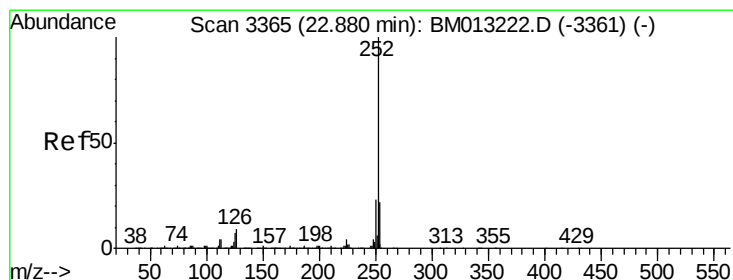
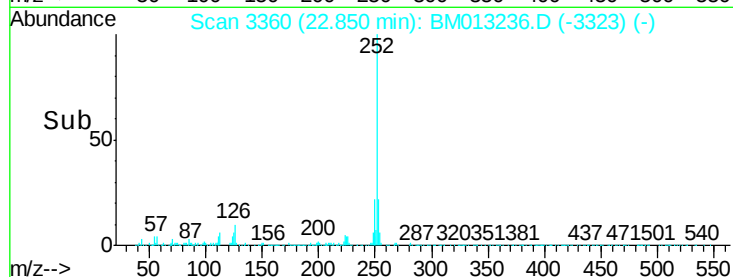
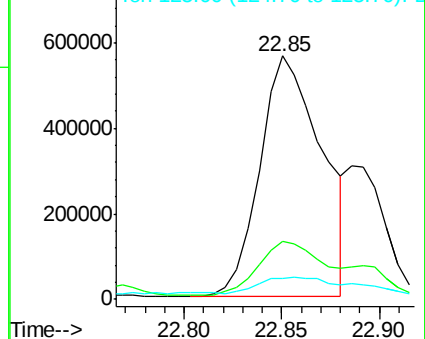
125 8.6 3.6 5.4#



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: 17.216 ng/ul

RT: 22.85 min Scan# 3360

Delta R.T. -0.03 min

Lab File: BM013236.D

Acq: 07 Dec 2017 07:03

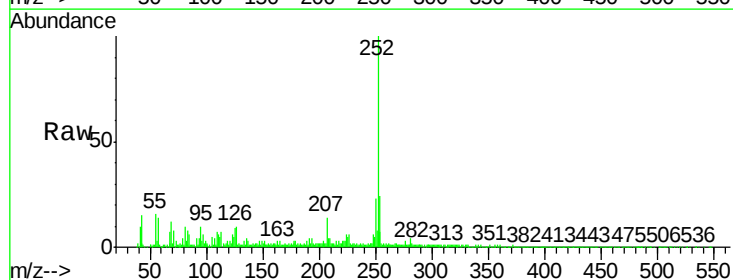
Tgt Ion:252 Resp: 1239627

Ion Ratio Lower Upper

252 100

253 23.9 17.1 25.7

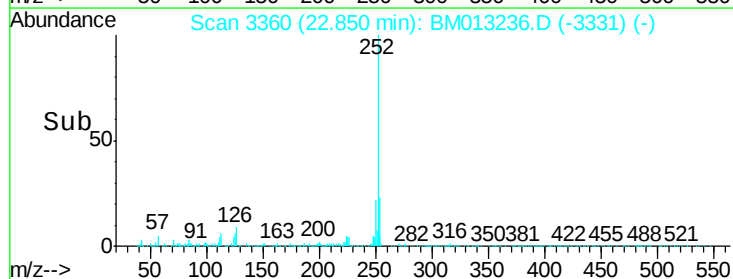
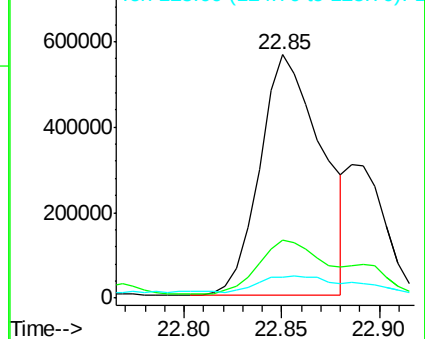
125 8.6 3.4 5.2#

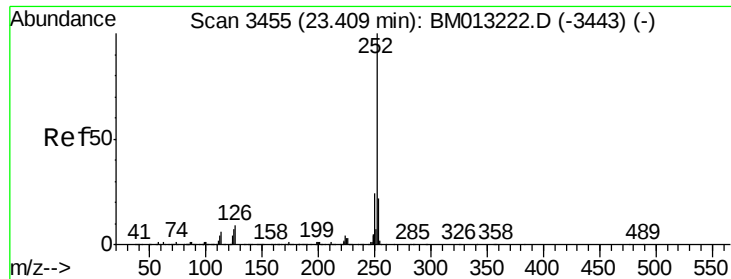


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#88

Benzo(a)pyrene

Concen: 12.396 ng/ul

RT: 23.43 min Scan# 3458

Delta R.T. 0.02 min

Lab File: BM013236.D

Acq: 07 Dec 2017 07:03

Instrument :

BNA_M

ClientSampleId :

BE1B2

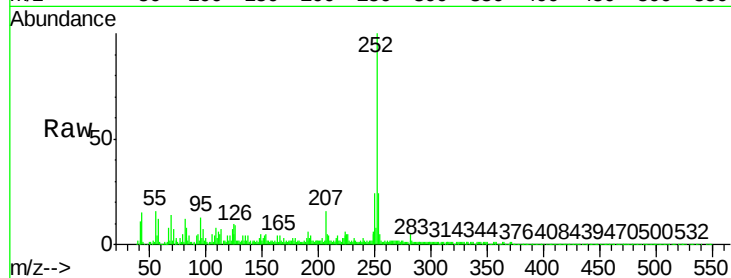
Tot Ion:252 Resp: 851988

Ion Ratio Lower Upper

252 100

253 24.5 18.2 27.2

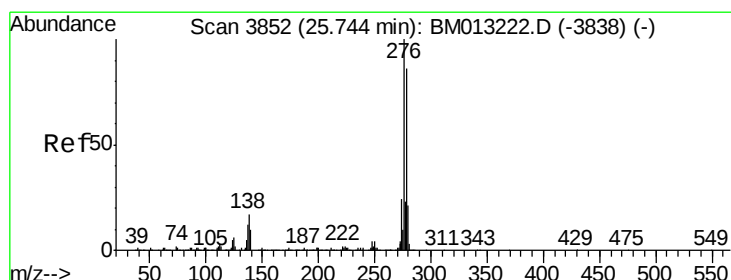
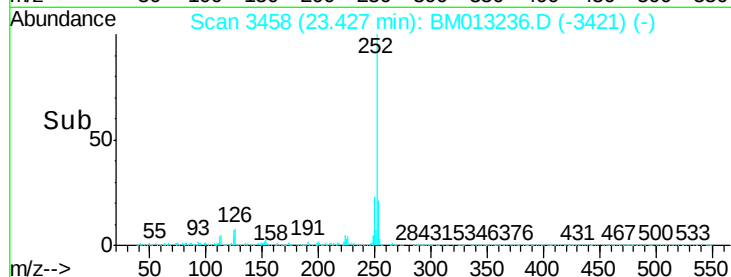
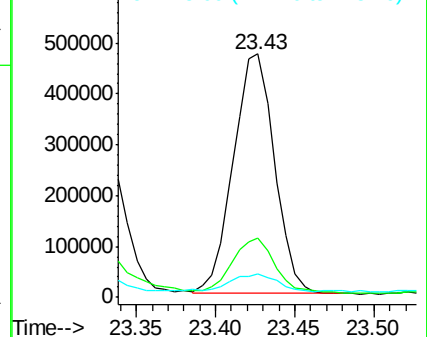
125 9.6 4.0 6.0#



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: 7.771 ng/ul

RT: 25.77 min Scan# 3857

Delta R.T. 0.03 min

Lab File: BM013236.D

Acq: 07 Dec 2017 07:03

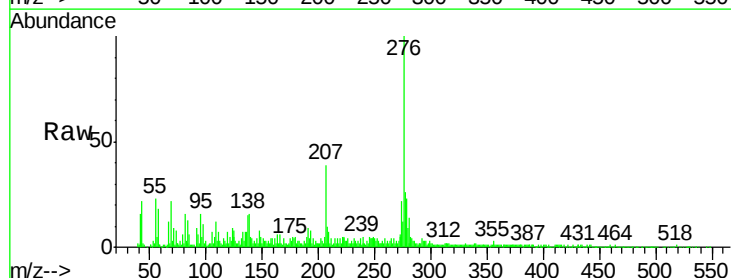
Tgt Ion:276 Resp: 529930

Ion Ratio Lower Upper

276 100

138 16.1 9.3 13.9#

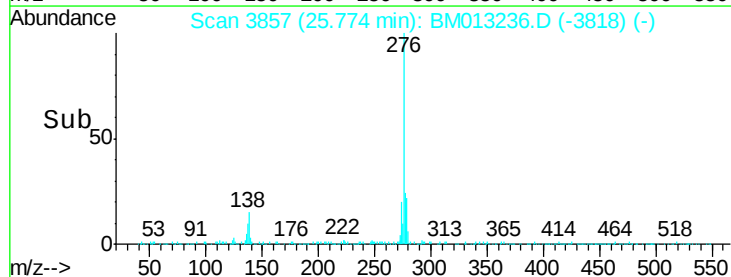
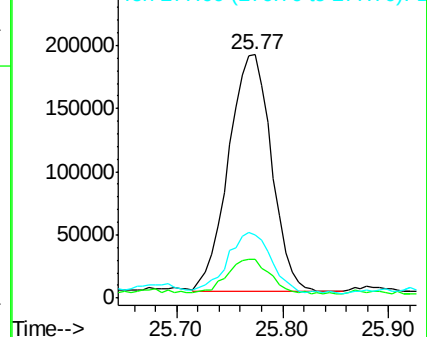
277 26.0 19.9 29.9

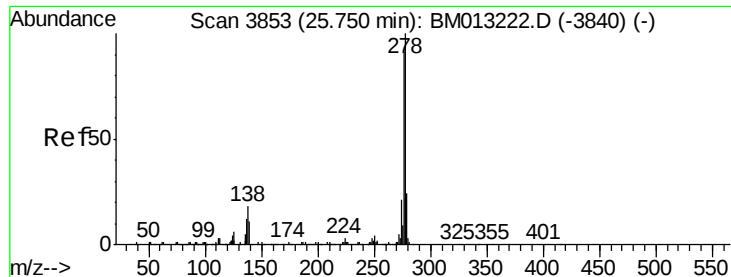


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#90

Dibenzo(a,h)anthracene

Concen: 2.510 ng/ul

RT: 25.77 min Scan# 3856

Delta R.T. 0.02 min

Lab File: BM013236.D

Acq: 07 Dec 2017 07:03

Instrument :

BNA_M

ClientSampleId :

BE1B2

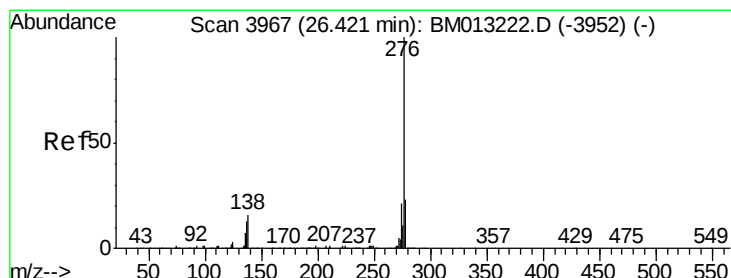
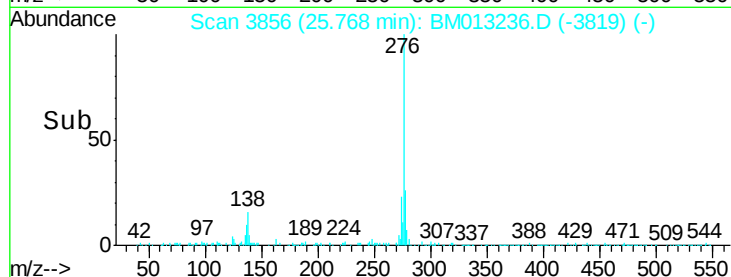
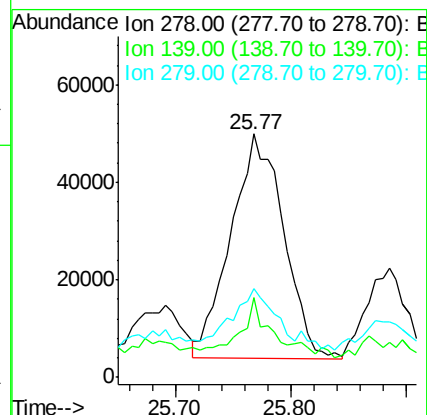
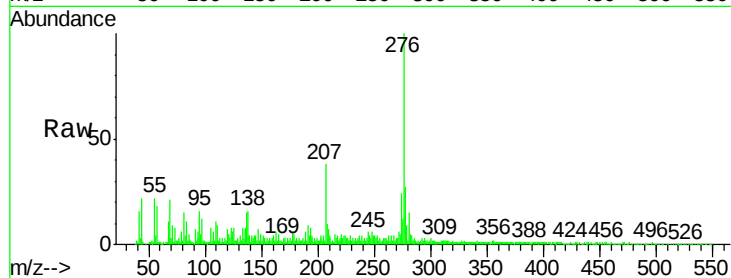
Tot Ion:278 Resp: 145783

Ion Ratio Lower Upper

278 100

139 32.8 5.8 8.8#

279 36.3 18.6 27.8#



#91

Benzo(g,h,i)perylene

Concen: 8.813 ng/ul

RT: 26.46 min Scan# 3973

Delta R.T. 0.04 min

Lab File: BM013236.D

Acq: 07 Dec 2017 07:03

Tgt Ion:276 Resp: 474061

Ion Ratio Lower Upper

276 100

138 16.2 8.5 12.7#

277 25.6 18.6 28.0

