

Data Path : Z:\HPCHEM1\BNA M\DATA\BM071616\
 Data File : BM006506.D
 Acq On : 17 Jul 2016 08:45
 Operator : UM/SJ
 Sample : H3959-03 10X
 Misc :
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :

Quant Time: Jul 18 07:43:14 2016
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM071416.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Jul 18 07:39:41 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.62	152	126122	20.00	ng/ul	0.00
18) Naphthalene-d8	10.40	136	511883	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.27	164	290470	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.02	188	648247	20.00	ng/ul	0.00
75) Chrysene-d12	21.22	240	687349	20.00	ng/ul	0.00
83) Perylene-d12	23.41	264	823600	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	0.00	96	0	0.00	ng/uL	
5) Phenol-d5	6.80	99	15986	1.55	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	6.96	67	11157	1.78	ng/ul	0.00
9) 2-Chlorophenol-d4	7.15	132	12803	1.53	ng/ul	0.00
13) 4-Methylphenol-d8	8.33	113	12541	1.53	ng/ul	0.00
19) Nitrobenzene-d5	8.77	128	6429	1.66	ng/ul	0.00
22) 2-Nitrophenol-d4	9.49	143	5875	1.34	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.03	165	11669	1.41	ng/ul	0.00
29) 4-Chloroaniline-d4	10.55	131	14465	1.67	ng/ul	0.01
43) Dimethylphthalate-d6	13.68	166	42134	1.77	ng/ul	0.00
46) Acenaphthylene-d8	13.95	160	51824	1.76	ng/ul	0.00
51) 4-Nitrophenol-d4	14.50	143	3403	0.82	ng/ul	0.01
57) Fluorene-d10	15.26	176	42578	2.01	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.42	200	1306	0.35	ng/ul	0.02
70) Anthracene-d10	17.02	188	648247	21.16	ng/ul	-0.10
76) Pyrene-d10	19.42	212	70662	2.27	ng/ul	0.00
87) Benzo(a)pyrene-d12	23.27	264	79403	2.11	ng/ul	0.00

Target Compounds

						Ovalue
28) Naphthalene	10.47	128	18070536	695.51	ng/ul	97
30) 4-Chloroaniline	10.47	127	2541765	281.86	ng/ul#	10
34) 2-Methylnaphthalene	12.06	142	1379197	70.44	ng/ul	98
40) 1,1'-Biphenyl	13.09	154	440541	18.39	ng/ul	99
44) Dimethylphthalate	13.73	163	29691	1.23	ng/ul	97
47) Acenaphthylene	13.99	152	189157	6.18	ng/ul#	96
49) Acenaphthene	14.33	153	1996075	101.35	ng/ul	98
53) Dibenzofuran	14.67	168	1613540	56.28	ng/ul	97
58) Fluorene	15.32	166	1627943	70.98	ng/ul	100
60) 4-Nitroaniline	15.32	138	18765	3.51	ng/ul#	12
69) Phenanthrene	17.07	178	6070306	170.30	ng/ul	98
71) Anthracene	17.15	178	2665663	72.71	ng/ul	99
72) Carbazole	17.42	167	429035	13.84	ng/ul	99
74) Fluoranthene	19.23	202	345540	8.34	ng/ul	97
77) Pyrene	19.45	202	4647164	113.23	ng/ul#	94
80) Benzo(a)anthracene	21.20	228	2408037	57.40	ng/ul	96
82) Chrysene	21.26	228	2351907	59.54	ng/ul	97
85) Benzo(b)fluoranthene	22.76	252	2718662	55.23	ng/ul	98
86) Benzo(k)fluoranthene	22.76	252	2718662	58.72	ng/ul	98
88) Benzo(a)pyrene	23.32	252	2117603	44.91	ng/ul	99
89) Indeno(1,2,3-cd)pyrene	25.61	276	1360827	24.81	ng/ul	96
90) Dibenzo(a,h)anthracene	25.61	278	356177	7.81	ng/ul#	85
91) Benzo(g,h,i)perylene	26.29	276	1164064	24.01	ng/ul	100

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Quant Title : SVOA CALIBRATION
QLast Update : Mon Jul 18 07:39:41 2016
Response via : Initial Calibration

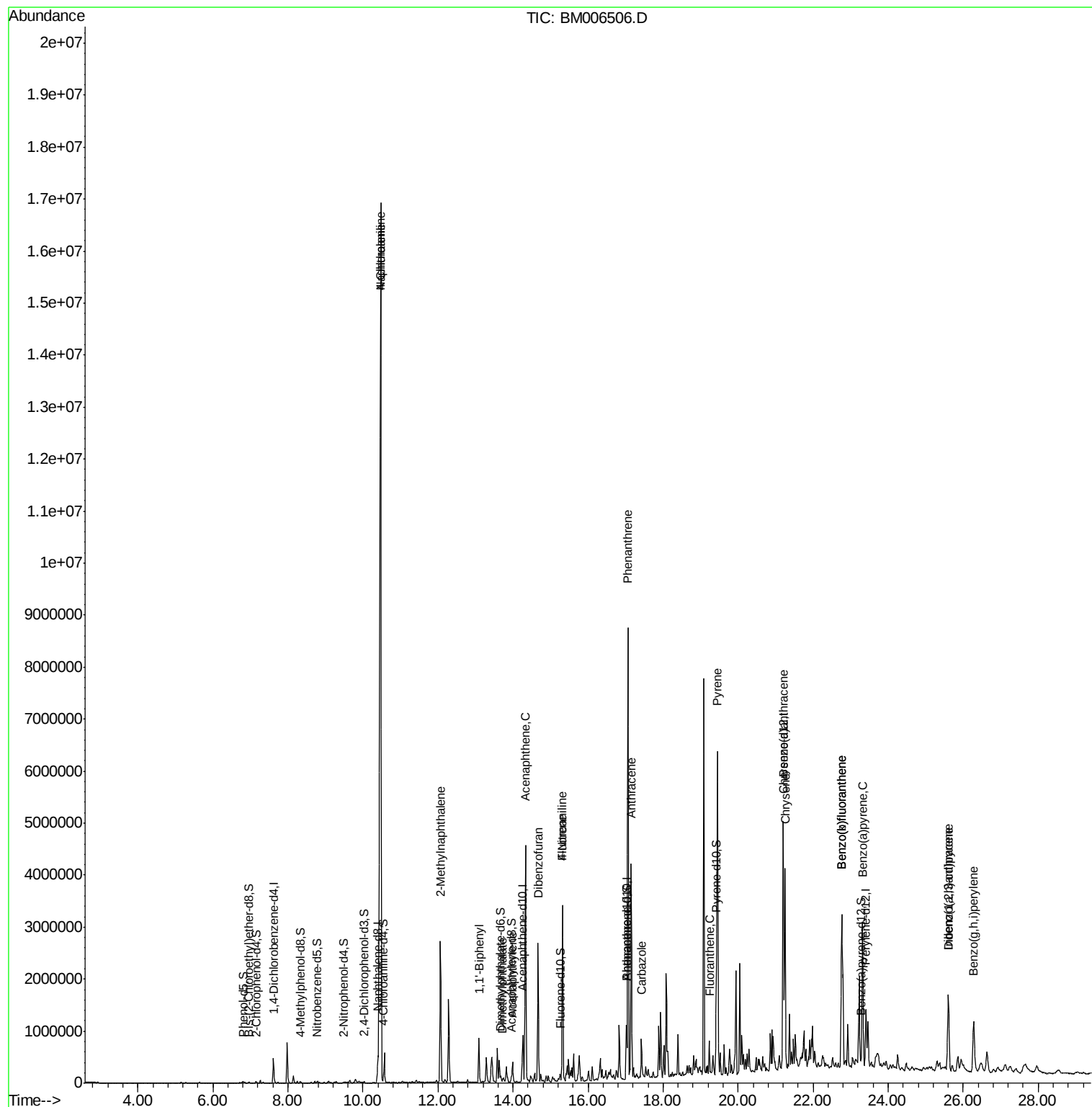
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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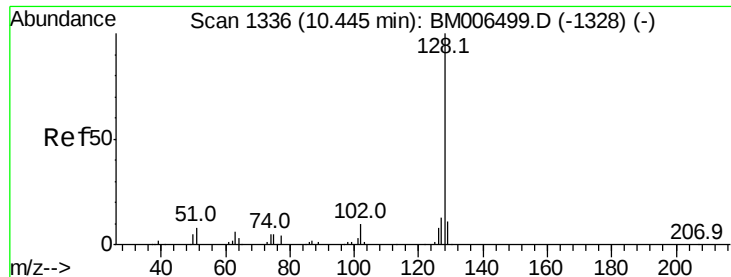
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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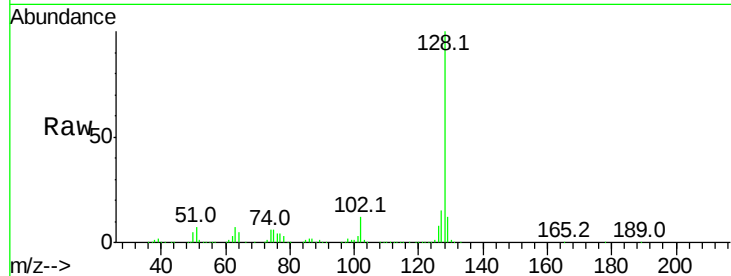




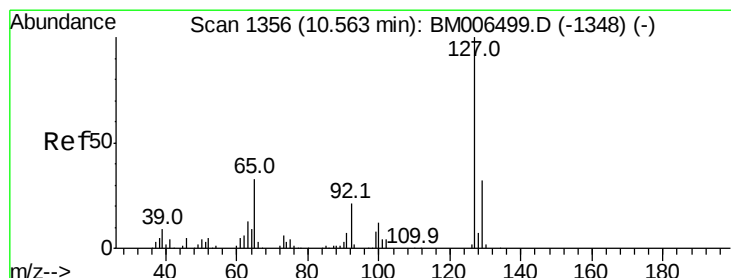
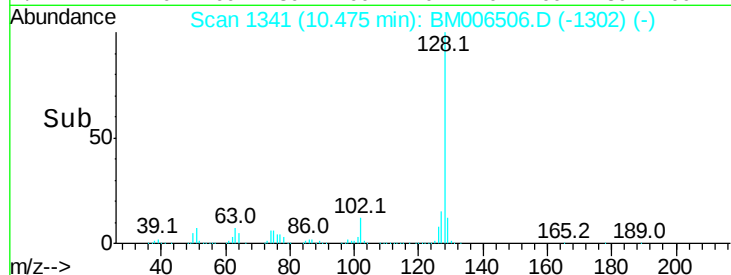
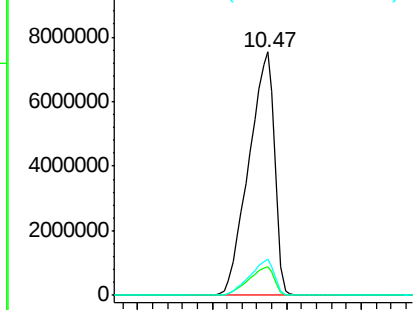
#28
Naphthalene
Concen: 695.51 ng/ul
RT: 10.47 min Scan# 1341
Delta R.T. 0.03 min
Lab File: BM006506.D
Acq: 17 Jul 2016 08:45

Instrument :
BNA_M
ClientSampleId :

Tot Ion:128 Resp:18070536
Ion Ratio Lower Upper
128 100
129 11.9 8.6 13.0
127 14.8 10.9 16.3

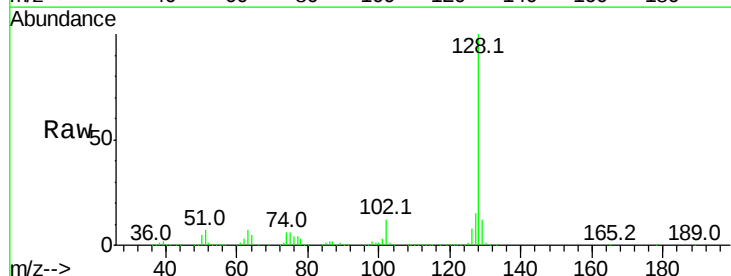


Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E

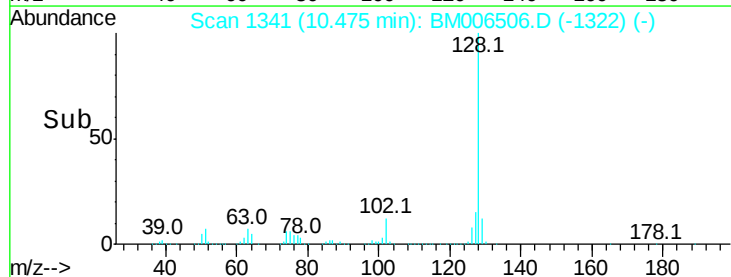
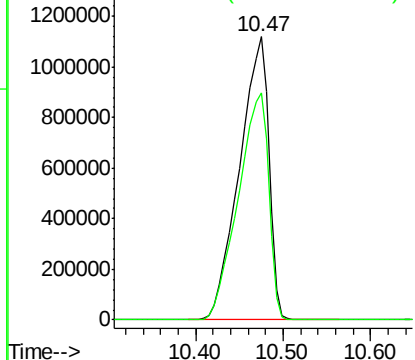


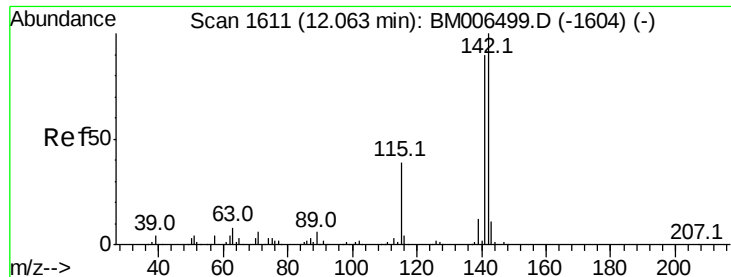
#30
4-Chloroaniline
Concen: 281.86 ng/ul
RT: 10.47 min Scan# 1341
Delta R.T. -0.09 min
Lab File: BM006506.D
Acq: 17 Jul 2016 08:45

Tgt Ion:127 Resp: 2541765
Ion Ratio Lower Upper
127 100
129 80.3 24.6 37.0#



Abundance Ion 127.00 (126.70 to 127.70): E
Ion 129.00 (128.70 to 129.70): E

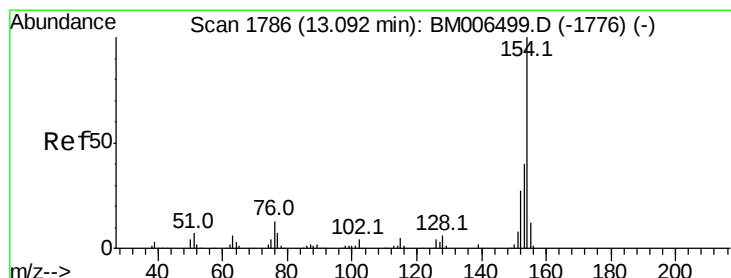
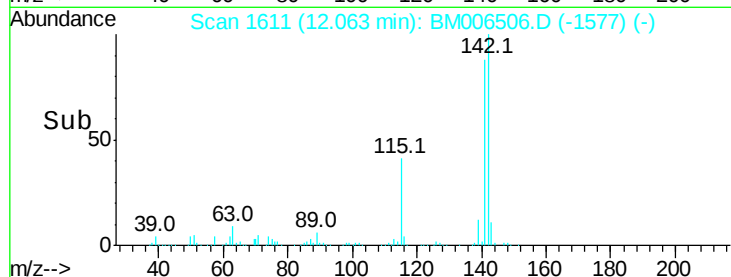
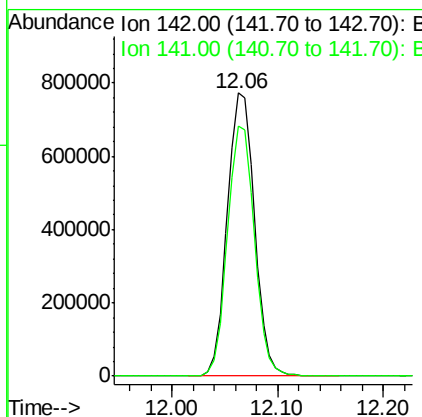
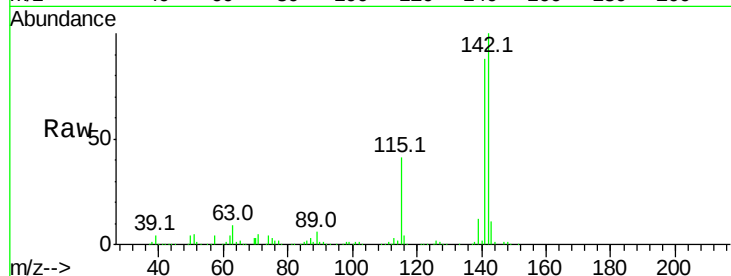




#34
 2-Methylnaphthalene
 Concen: 70.44 ng/ul
 RT: 12.06 min Scan# 1611
 Delta R.T. -0.00 min
 Lab File: BM006506.D
 Acq: 17 Jul 2016 08:45

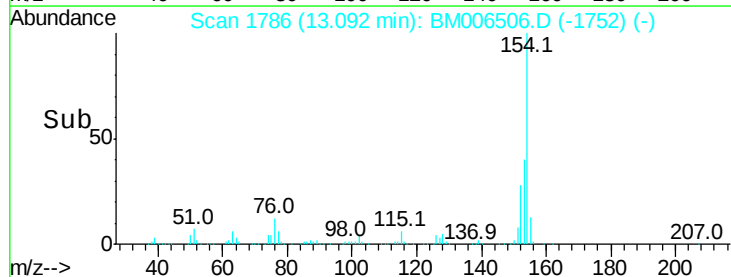
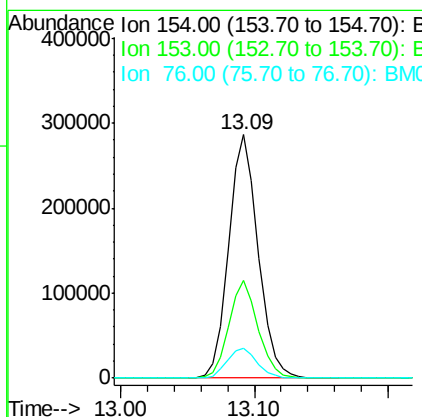
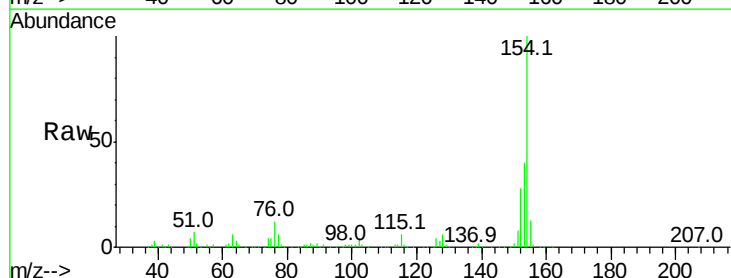
Instrument :
 BNA_M
 ClientSampleId :

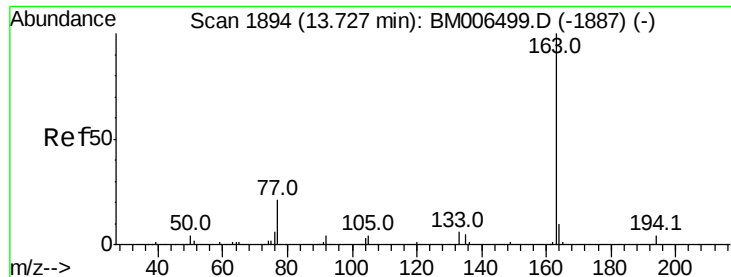
Tot Ion:142 Resp: 1379197
 Ion Ratio Lower Upper
 142 100
 141 88.2 69.0 103.4



#40
 1,1'-Biphenyl
 Concen: 18.39 ng/ul
 RT: 13.09 min Scan# 1786
 Delta R.T. -0.00 min
 Lab File: BM006506.D
 Acq: 17 Jul 2016 08:45

Tgt Ion:154 Resp: 440541
 Ion Ratio Lower Upper
 154 100
 153 40.0 31.4 47.2
 76 12.4 10.4 15.6





#44

Dimethylphthalate

Concen: 1.23 ng/ul

RT: 13.73 min Scan# 1894

Delta R.T. -0.00 min

Lab File: BM006506.D

Acq: 17 Jul 2016 08:45

Instrument :

BNA_M

ClientSampleId :

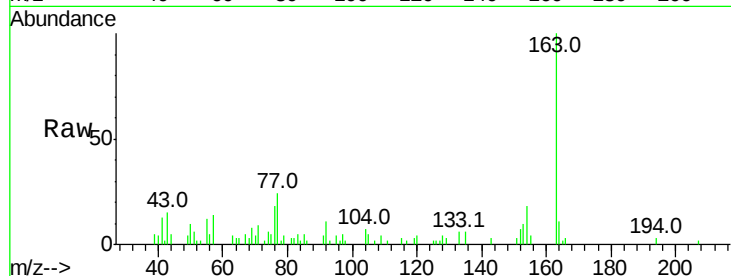
Tot Ion:163 Resp: 29691

Ion Ratio Lower Upper

163 100

194 3.4 3.4 5.0

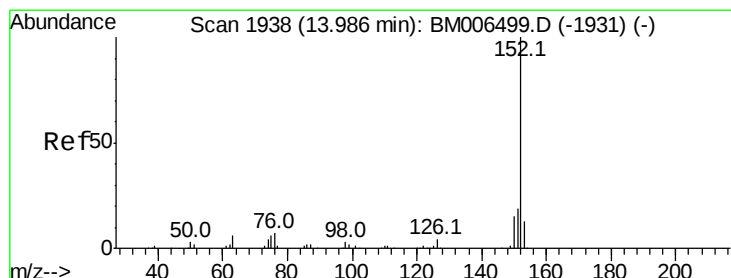
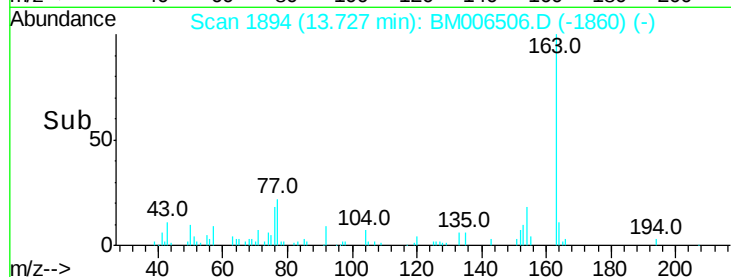
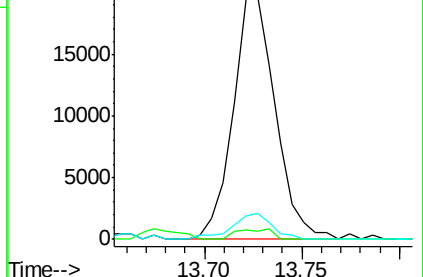
164 10.8 7.8 11.8



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: 6.18 ng/ul

RT: 13.99 min Scan# 1938

Delta R.T. -0.00 min

Lab File: BM006506.D

Acq: 17 Jul 2016 08:45

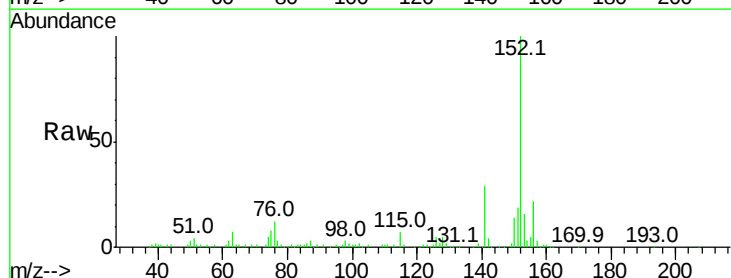
Tgt Ion:152 Resp: 189157

Ion Ratio Lower Upper

152 100

151 19.3 15.6 23.4

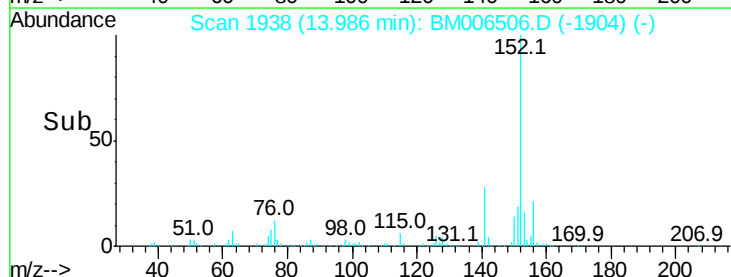
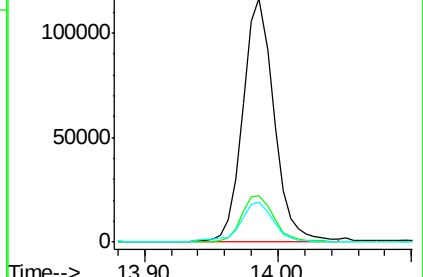
153 16.5 10.3 15.5#

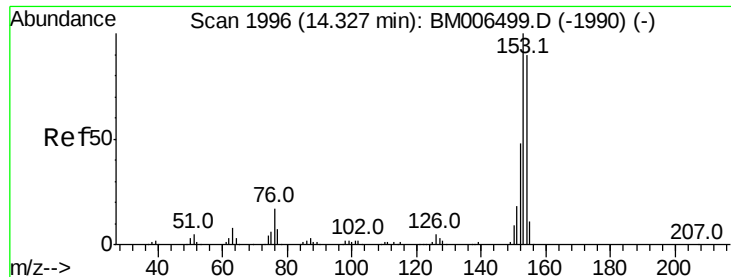


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#49

Acenaphthene

Concen: 101.35 ng/ul

RT: 14.33 min Scan# 1997

Delta R.T. 0.01 min

Lab File: BM006506.D

Acq: 17 Jul 2016 08:45

Instrument :

BNA_M

ClientSampleId :

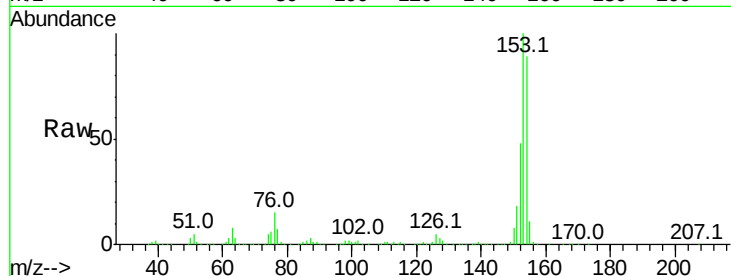
Tot Ion:153 Resp: 1996075

Ion Ratio Lower Upper

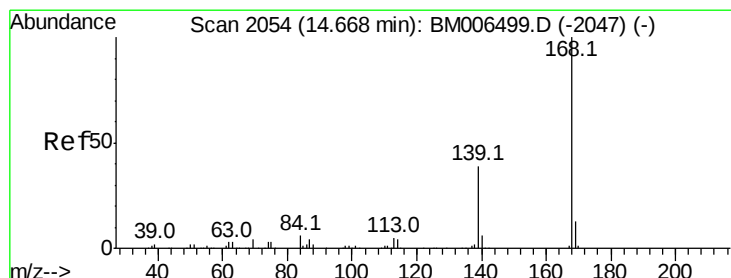
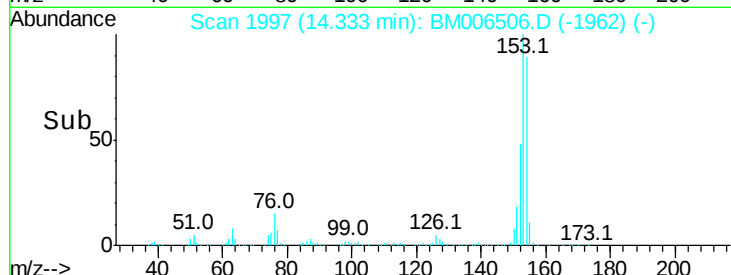
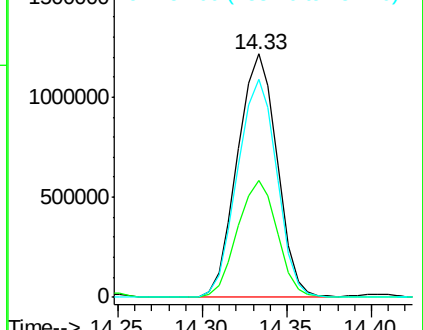
153 100

152 48.0 37.7 56.5

154 89.3 70.0 105.0



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: 56.28 ng/ul

RT: 14.67 min Scan# 2054

Delta R.T. -0.00 min

Lab File: BM006506.D

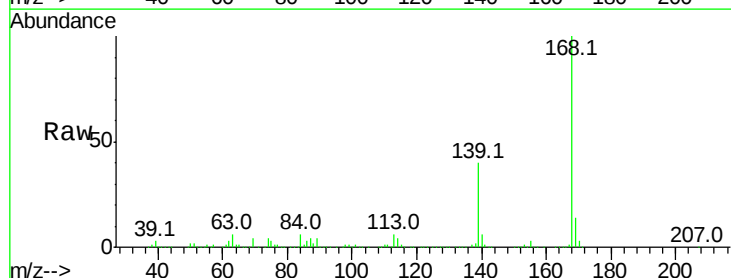
Acq: 17 Jul 2016 08:45

Tgt Ion:168 Resp: 1613540

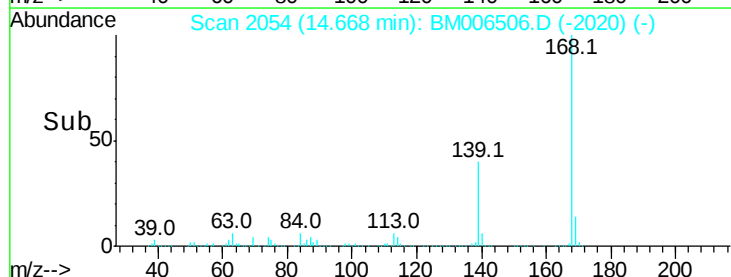
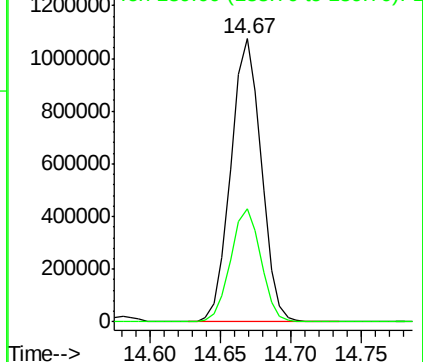
Ion Ratio Lower Upper

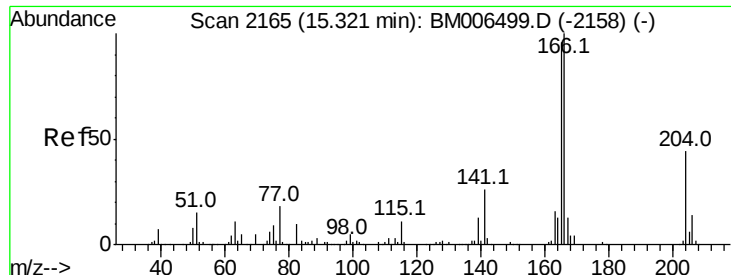
168 100

139 40.1 30.6 46.0



Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E





#58

Fluorene

Concen: 70.98 ng/ul

RT: 15.32 min Scan# 2165

Delta R.T. -0.00 min

Lab File: BM006506.D

Acq: 17 Jul 2016 08:45

Instrument :

BNA_M

ClientSampled :

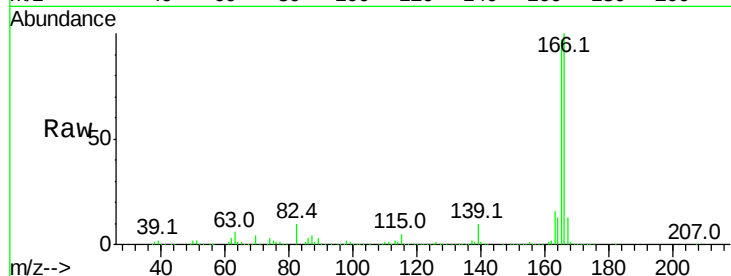
Tot Ion:166 Resp: 1627943

Ion Ratio Lower Upper

166 100

165 96.9 77.5 116.3

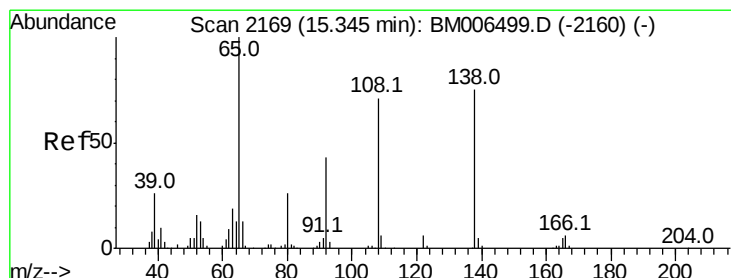
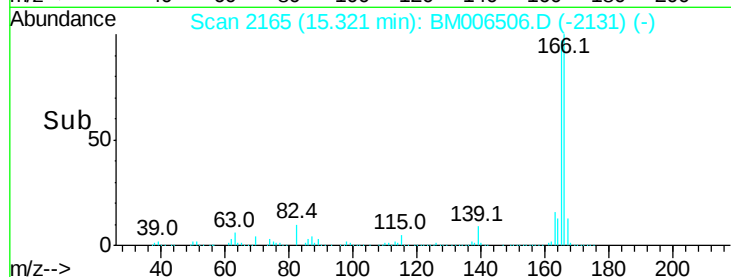
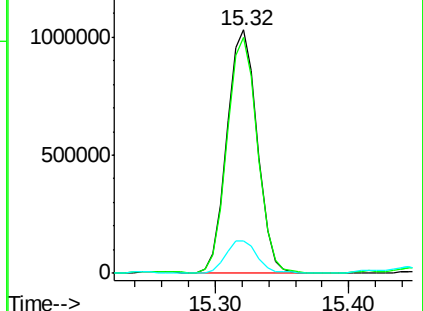
167 13.4 10.8 16.2



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#60

4-Nitroaniline

Concen: 3.51 ng/ul

RT: 15.32 min Scan# 2165

Delta R.T. -0.02 min

Lab File: BM006506.D

Acq: 17 Jul 2016 08:45

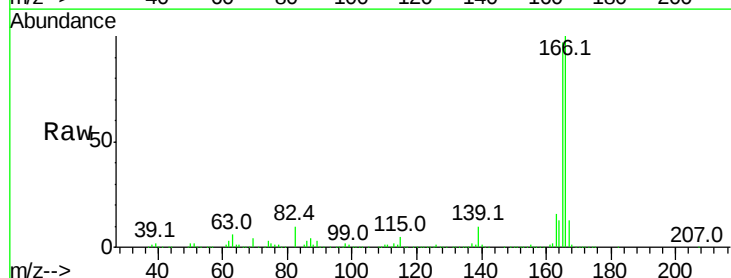
Tgt Ion:138 Resp: 18765

Ion Ratio Lower Upper

138 100

92 0.0 43.4 65.0#

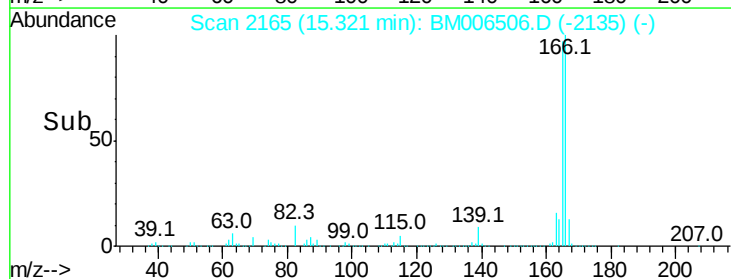
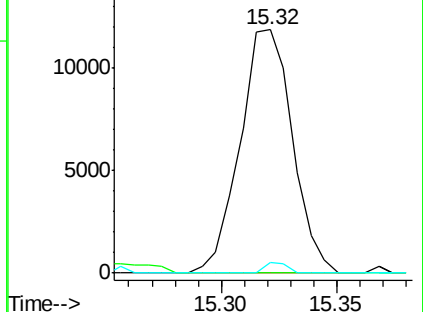
108 4.5 79.9 119.9#

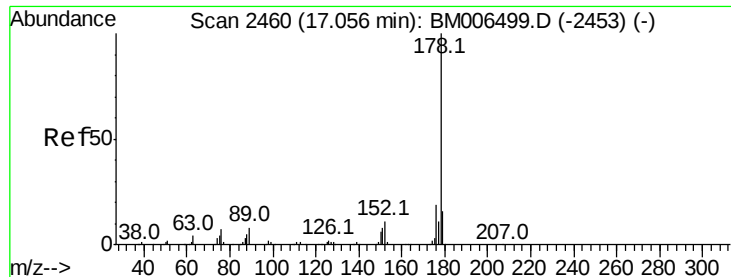


Abundance Ion 138.00 (137.70 to 138.70): E

Ion 92.00 (91.70 to 92.70): BM0

Ion 108.00 (107.70 to 108.70): E





#69

Phenanthrene

Concen: 170.30 ng/ul

RT: 17.07 min Scan# 2462

Delta R.T. 0.01 min

Lab File: BM006506.D

Acq: 17 Jul 2016 08:45

Instrument :

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ClientSampleId :

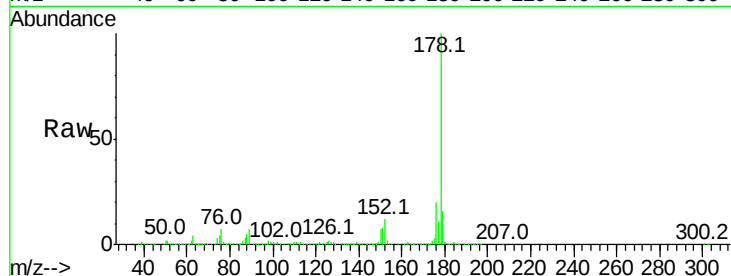
Tot Ion:178 Resp: 6070306

Ion Ratio Lower Upper

178 100

179 15.7 11.9 17.9

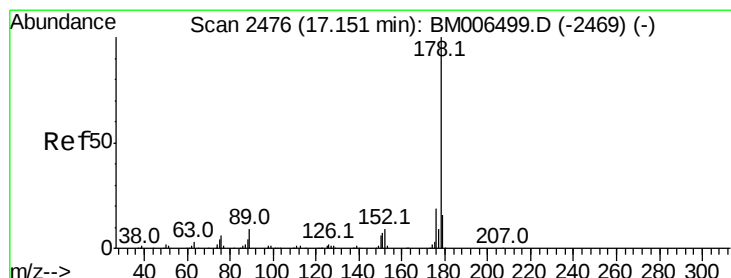
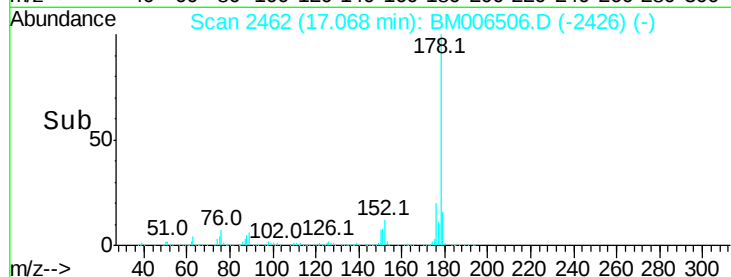
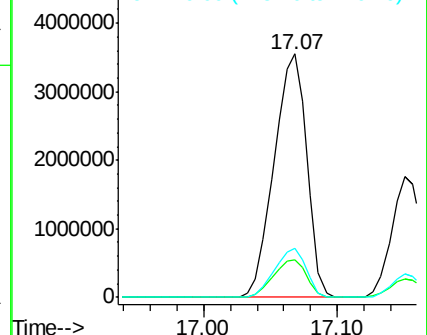
176 19.9 15.2 22.8



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



#71

Anthracene

Concen: 72.71 ng/ul

RT: 17.15 min Scan# 2476

Delta R.T. -0.00 min

Lab File: BM006506.D

Acq: 17 Jul 2016 08:45

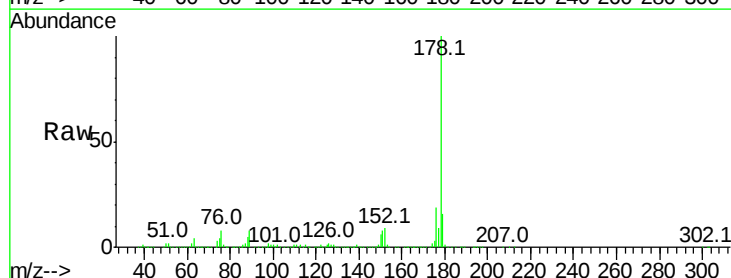
Tgt Ion:178 Resp: 2665663

Ion Ratio Lower Upper

178 100

179 15.7 12.0 18.0

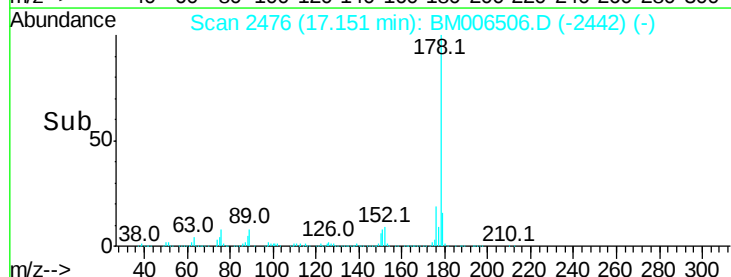
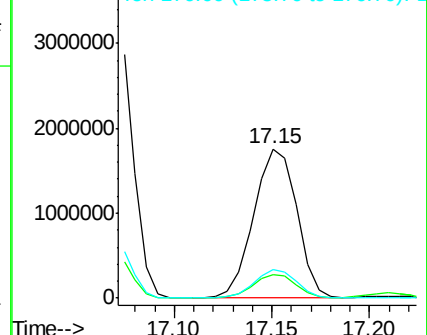
176 19.2 15.0 22.6

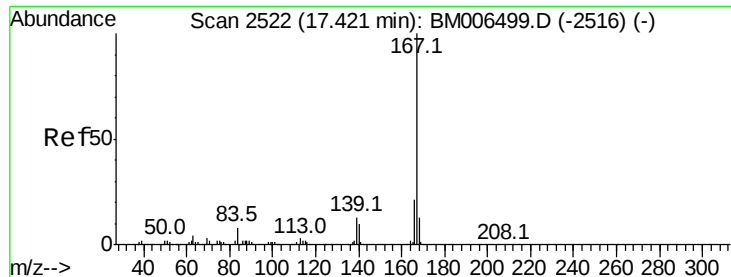


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#72

Carbazole

Concen: 13.84 ng/ul

RT: 17.42 min Scan# 2522

Delta R.T. -0.00 min

Lab File: BM006506.D

Acq: 17 Jul 2016 08:45

Instrument :

BNA_M

ClientSampleId :

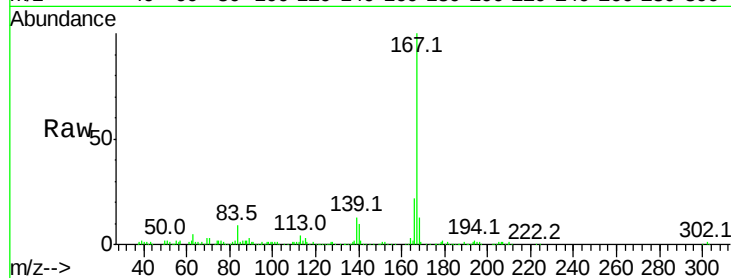
Tot Ion:167 Resp: 429035

Ion Ratio Lower Upper

167 100

166 21.7 17.0 25.6

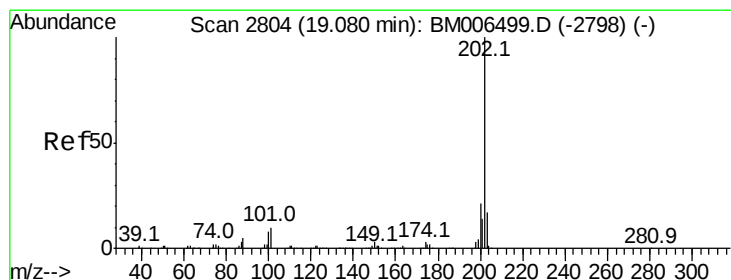
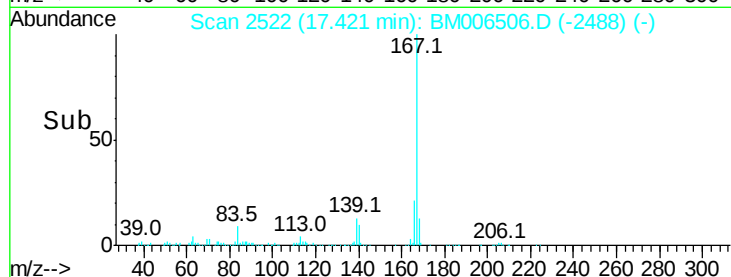
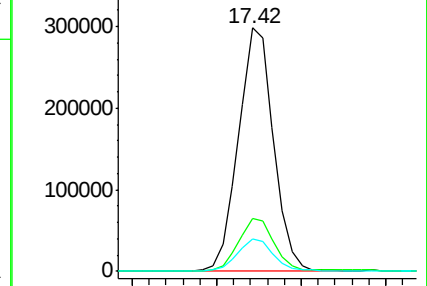
139 13.2 10.2 15.4



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: 8.34 ng/ul

RT: 19.23 min Scan# 2830

Delta R.T. 0.15 min

Lab File: BM006506.D

Acq: 17 Jul 2016 08:45

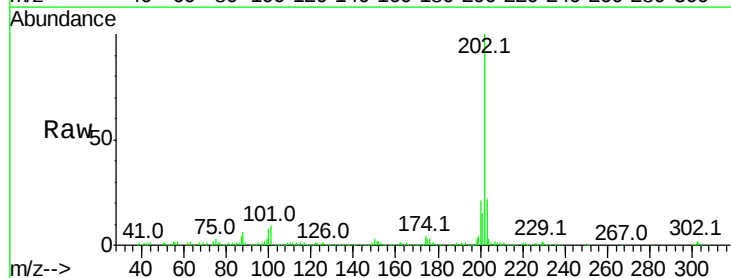
Tgt Ion:202 Resp: 345540

Ion Ratio Lower Upper

202 100

101 9.4 8.6 12.8

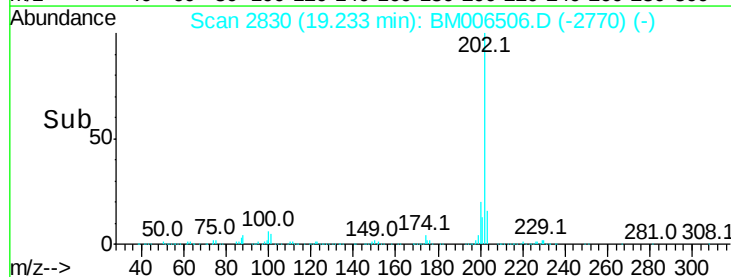
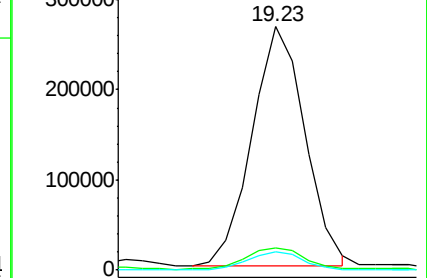
100 7.6 6.4 9.6

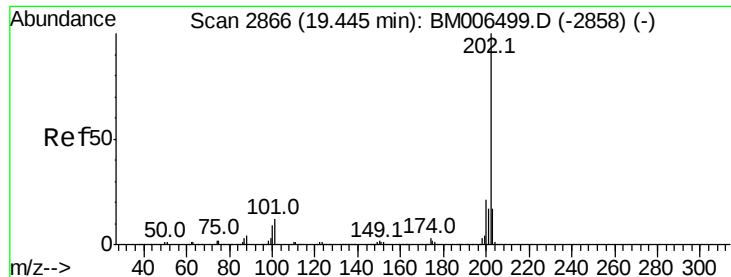


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): E





#77

Pvrene

Concen: 113.23 ng/ul

RT: 19.45 min Scan# 2867

Delta R.T. 0.01 min

Lab File: BM006506.D

Acq: 17 Jul 2016 08:45

Instrument :

BNA_M

ClientSampleId :

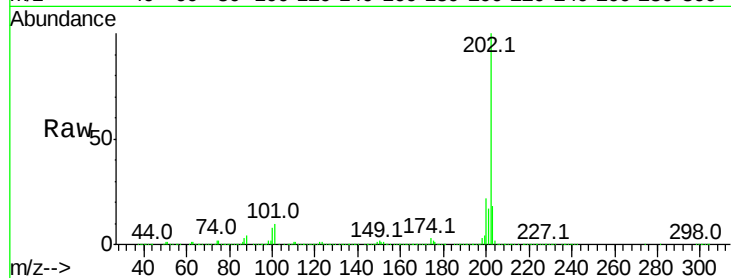
Tot Ion:202 Resp: 4647164

Ion Ratio Lower Upper

202 100

101 9.9 10.0 15.0#

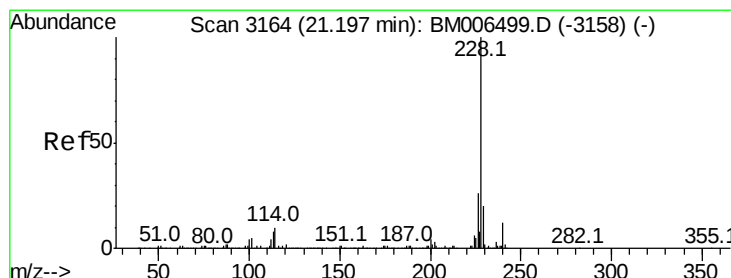
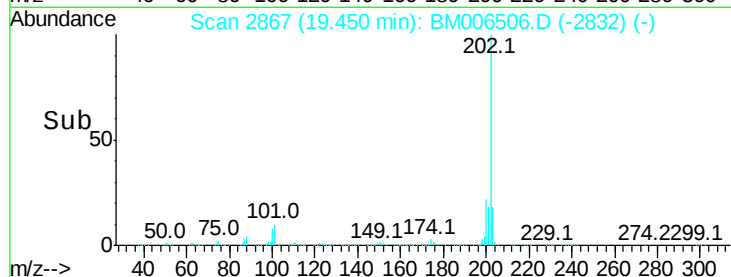
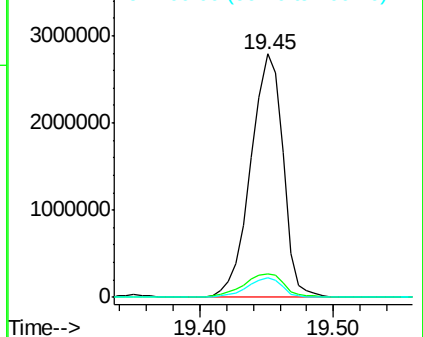
100 8.1 7.9 11.9



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: 57.40 ng/ul

RT: 21.20 min Scan# 3165

Delta R.T. 0.01 min

Lab File: BM006506.D

Acq: 17 Jul 2016 08:45

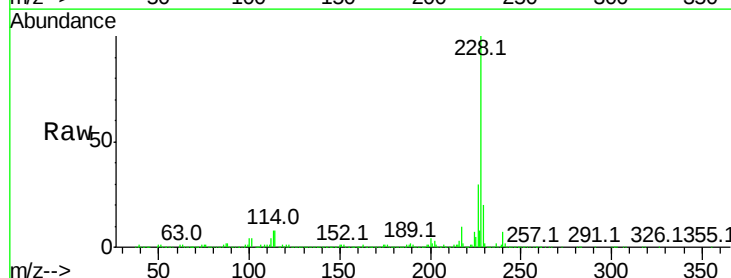
Tgt Ion:228 Resp: 2408037

Ion Ratio Lower Upper

228 100

229 20.3 15.6 23.4

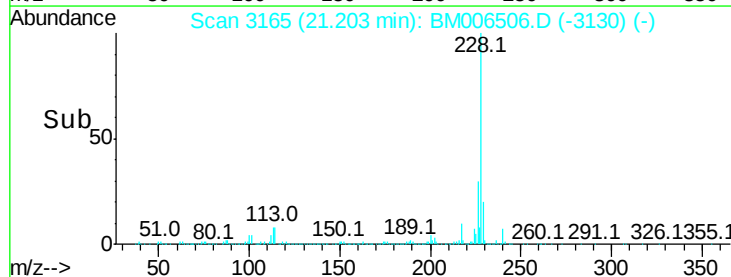
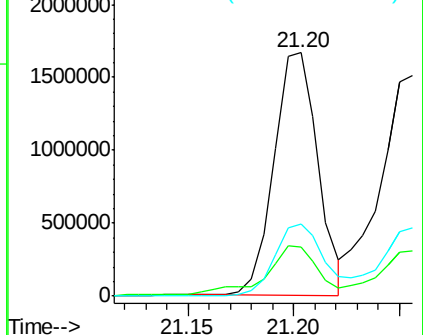
226 29.8 21.4 32.2

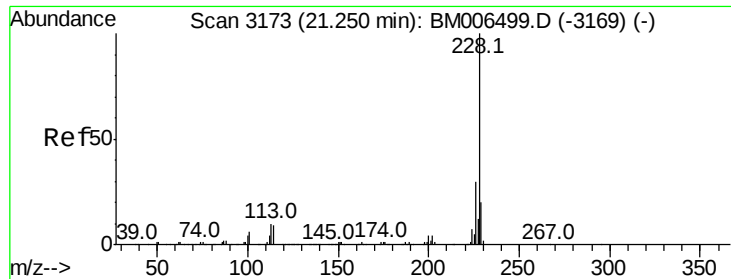


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E





#82

Chrysene

Concen: 59.54 ng/ul

RT: 21.26 min Scan# 3174

Delta R.T. 0.01 min

Lab File: BM006506.D

Acq: 17 Jul 2016 08:45

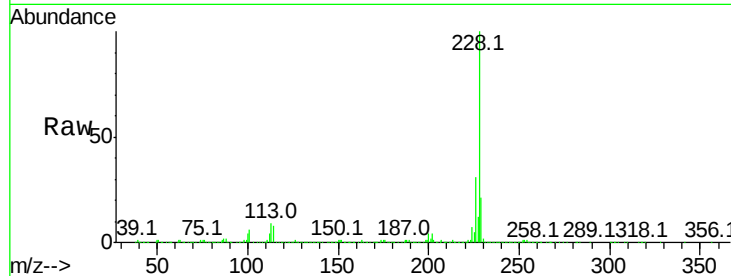
Instrument :

BNA_M

ClientSampleId :

Tot Ion:228 Resp: 2351907

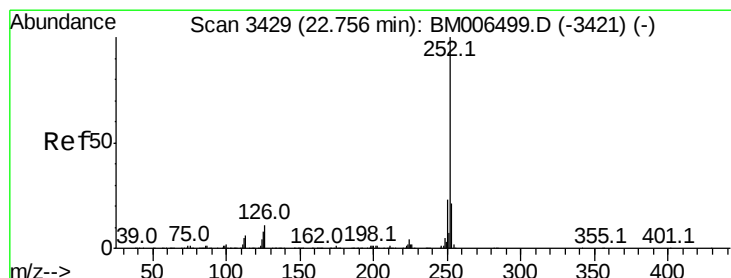
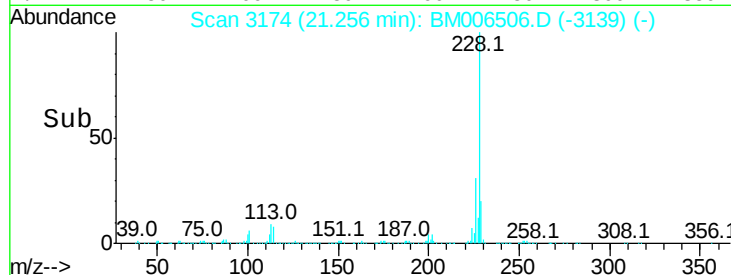
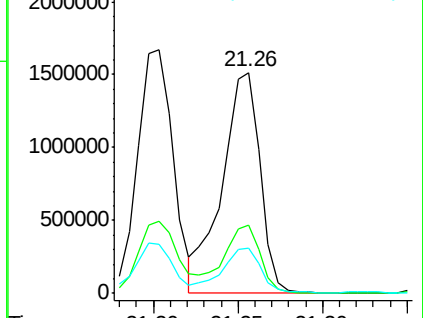
Ion	Ratio	Lower	Upper
228	100		
226	31.0	23.3	34.9
229	20.7	15.8	23.8



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: 55.23 ng/ul

RT: 22.76 min Scan# 3430

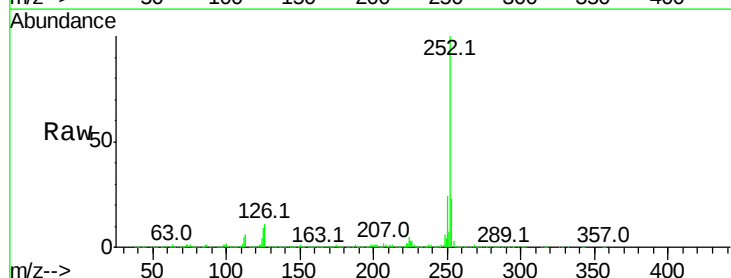
Delta R.T. 0.01 min

Lab File: BM006506.D

Acq: 17 Jul 2016 08:45

Tgt Ion:252 Resp: 2718662

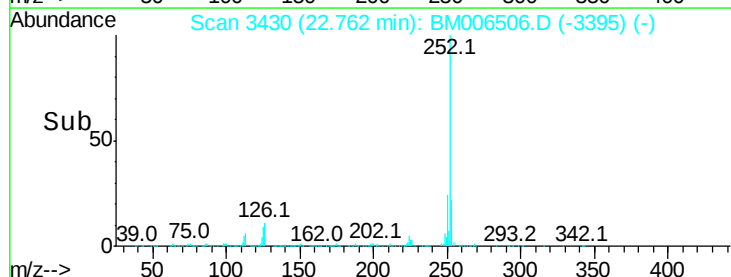
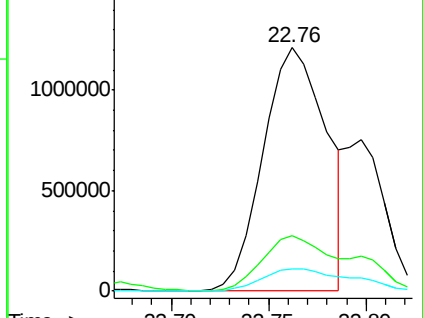
Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.4	26.2
125	9.3	6.7	10.1

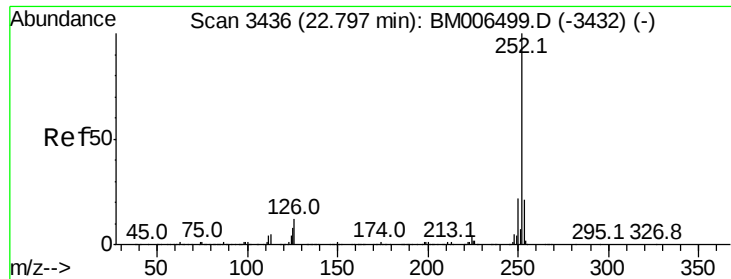


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

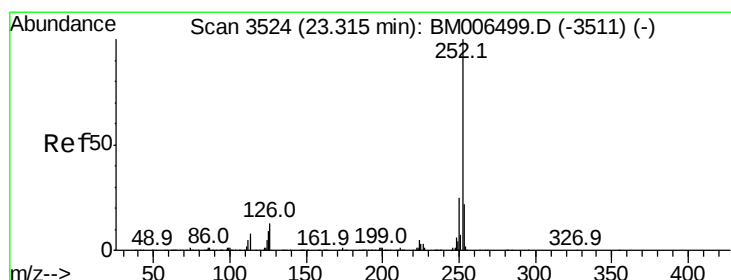
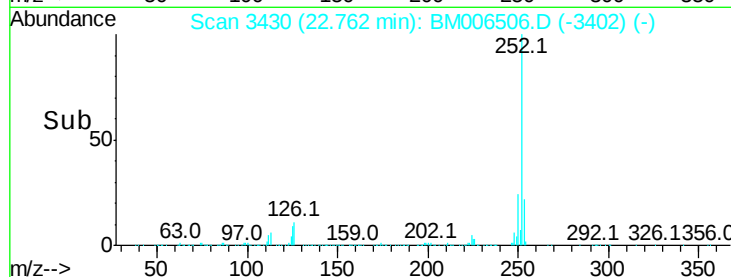
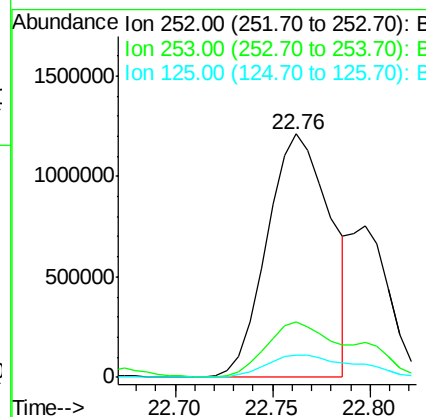
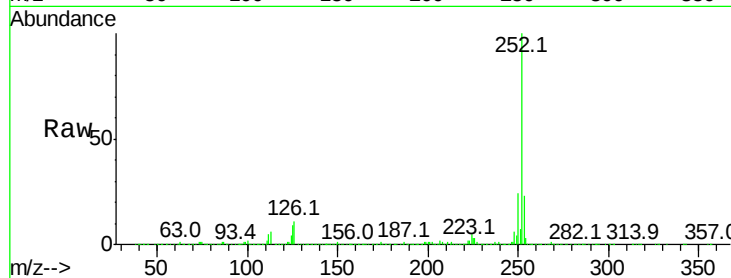




#86
Benzo(k)fluoranthene
Concen: 58.72 ng/ul
RT: 22.76 min Scan# 3430
Delta R.T. -0.04 min
Lab File: BM006506.D
Acq: 17 Jul 2016 08:45

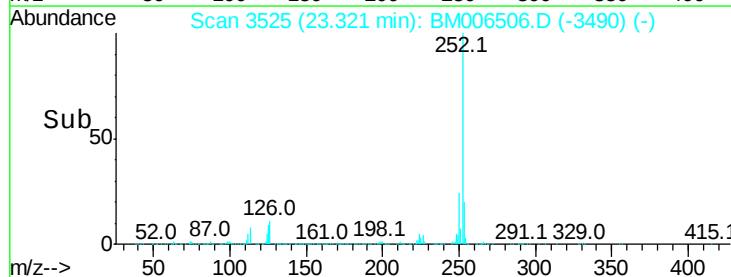
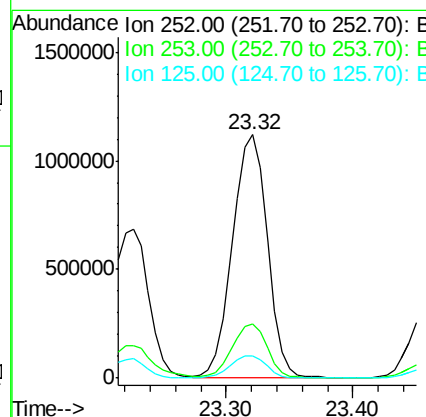
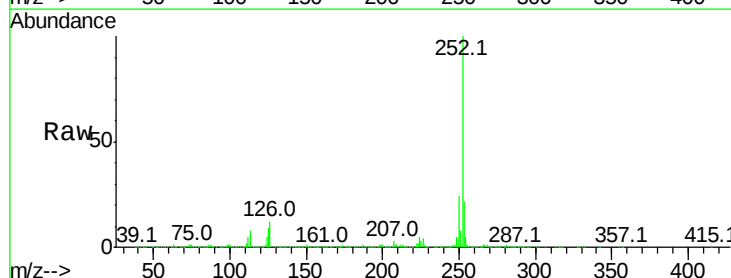
Instrument :
BNA_M
ClientSampleId :

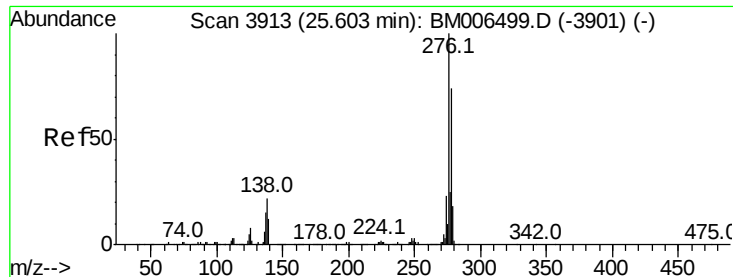
Tot Ion:252 Resp: 2718662
Ion Ratio Lower Upper
252 100
253 22.6 17.3 25.9
125 9.3 7.0 10.4



#88
Benzo(a)pyrene
Concen: 44.91 ng/ul
RT: 23.32 min Scan# 3525
Delta R.T. 0.01 min
Lab File: BM006506.D
Acq: 17 Jul 2016 08:45

Tgt Ion:252 Resp: 2117603
Ion Ratio Lower Upper
252 100
253 22.3 17.4 26.2
125 8.9 7.6 11.4





#89

Indeno(1,2,3-cd)pyrene

Concen: 24.81 ng/ul

RT: 25.61 min Scan# 3914

Delta R.T. 0.01 min

Lab File: BM006506.D

Acq: 17 Jul 2016 08:45

Instrument :

BNA_M

ClientSampleId :

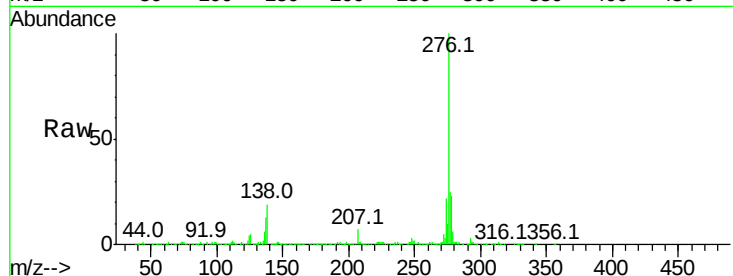
Tot Ion:276 Resp: 1360827

Ion Ratio Lower Upper

276 100

138 18.9 17.8 26.6

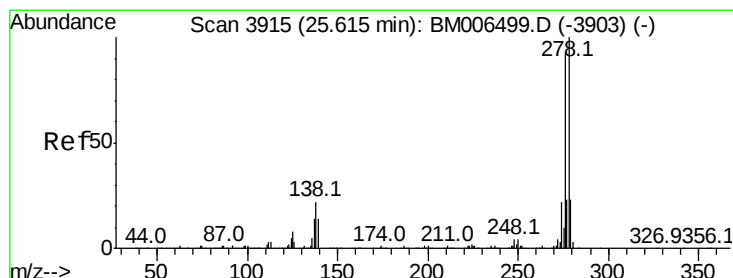
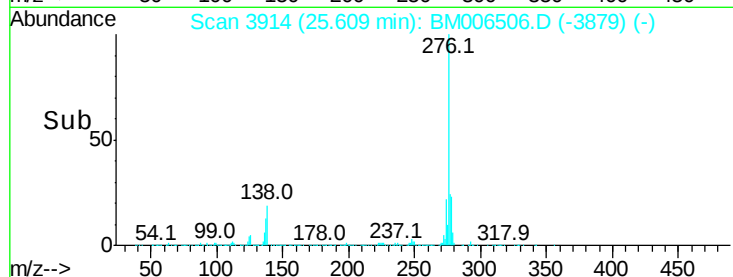
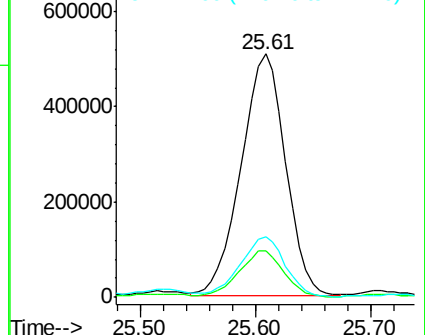
277 24.7 20.1 30.1



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: 7.81 ng/ul

RT: 25.61 min Scan# 3914

Delta R.T. -0.01 min

Lab File: BM006506.D

Acq: 17 Jul 2016 08:45

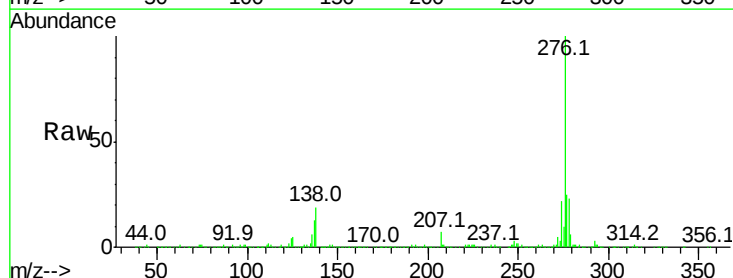
Tgt Ion:278 Resp: 356177

Ion Ratio Lower Upper

278 100

139 0.0 11.7 17.5#

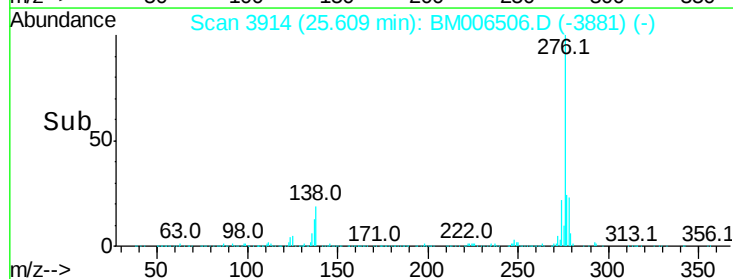
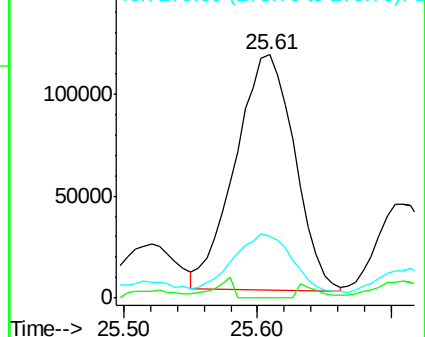
279 25.4 19.2 28.8

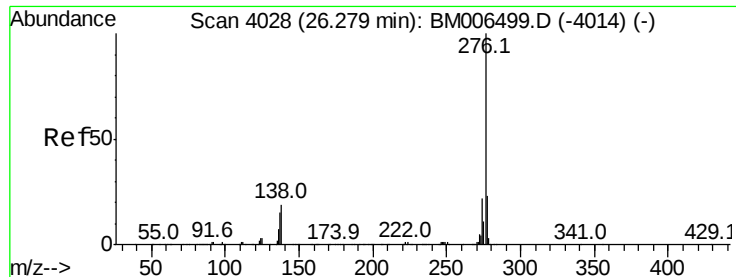


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#91
 Benzo(a,h,i)perylene
 Concen: 24.01 ng/ul
 RT: 26.29 min Scan# 4029
 Delta R.T. 0.01 min
 Lab File: BM006506.D
 Acq: 17 Jul 2016 08:45

Instrument :
 BNA_M
 ClientSampleId :

Tot Ion:276 Resp: 1164064
 Ion Ratio Lower Upper
 276 100
 138 18.5 15.0 22.4
 277 23.8 19.0 28.4

