

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM070615\
 Data File : BM001867.D
 Acq On : 07 Jul 2015 14:38
 Operator : TP/UM
 Sample : G2860-21
 Misc :
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 G93K6

Quant Time: Jul 08 02:20:17 2015
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM061515.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Wed Jul 08 02:11:29 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.67	152	66130	20.00	ng/ul	0.00
18) Naphthalene-d8	10.46	136	252785	20.00	ng/ul	0.01
35) Acenaphthene-d10	14.33	164	149042	20.00	ng/ul	0.01
61) Phenanthrene-d10	17.08	188	326325	20.00	ng/ul	0.02
77) Chrysene-d12	21.27	240	398675	20.00	ng/ul	0.02
85) Perylene-d12	23.50	264	415073	20.00	ng/ul	0.03

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.14	96	5442	3.92	ng/uL	0.00
5) Phenol-d5	6.83	99	116998	23.04	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.00	67	68514	24.08	ng/ul	0.00
9) 2-Chlorophenol-d4	7.20	132	96221	23.96	ng/ul	0.00
13) 4-Methylphenol-d8	8.37	113	93838	23.02	ng/ul	0.00
19) Nitrobenzene-d5	8.83	128	44523	25.44	ng/ul	0.00
22) 2-Nitrophenol-d4	9.55	143	51163	26.74	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.08	165	98666	24.09	ng/ul	0.00
29) 4-Chloroaniline-d4	10.60	131	120994	29.04	ng/ul	0.00
43) Dimethylphthalate-d6	13.73	166	262287	23.73	ng/ul	0.00
46) Acenaphthylene-d8	14.02	160	347162	23.96	ng/ul	0.00
51) 4-Nitrophenol-d4	14.53	143	39609	19.43	ng/ul	0.01
57) Fluorene-d10	15.32	176	249413	24.32	ng/ul	0.01
62) 4,6-Dinitro-2-methylphenol	15.46	200	10195	5.11	ng/ul	0.02
70) Anthracene-d10	17.17	188	384903	25.32	ng/ul	0.01
78) Pyrene-d10	19.47	212	446943	26.47	ng/ul	0.01
89) Benzo(a)pyrene-d12	23.36	264	458755	25.07	ng/ul	0.03

Target Compounds

						Qvalue
2) 1,4-Dioxane	2.88	88	12873	8.13	ng/uL#	1
28) Naphthalene	10.52	128	2419925	189.60	ng/ul	99
34) 2-Methylnaphthalene	12.13	142	1215059	131.64	ng/ul	99
40) 1,1'-Biphenyl	13.15	154	231440	19.02	ng/ul	99
44) Dimethylphthalate	13.78	163	49778	4.12	ng/ul	99
47) Acenaphthylene	14.04	152	270419	18.31	ng/ul#	95
49) Acenaphthene	14.39	153	202588	20.52	ng/ul	98
53) Dibenzofuran	14.73	168	201092	14.23	ng/ul	93
54) 2,4-Dinitrotoluene	14.69	165	5385	1.61	ng/ul#	59
58) Fluorene	15.38	166	564764	48.00	ng/ul	100
64) N-Nitrosodiphenylamine	15.59	169	31961	3.35	ng/ul	92
69) Phenanthrene	17.13	178	3802487	214.90	ng/ul	99
71) Anthracene	17.21	178	641114	35.29	ng/ul	99
74) Carbazole	17.48	167	18756	1.18	ng/ul#	75
76) Fluoranthene	19.14	202	1553349	73.40	ng/ul	99
79) Pyrene	19.51	202	3020954	136.58	ng/ul	98
82) Benzo(a)anthracene	21.26	228	830063	35.63	ng/ul	96
84) Chrysene	21.31	228	653415	29.59	ng/ul	99
87) Benzo(b)fluoranthene	22.84	252	665634	27.55	ng/ul#	99
88) Benzo(k)fluoranthene	22.84	252	192438	8.24	ng/ul#	98
90) Benzo(a)pyrene	23.41	252	798020	33.95	ng/ul	99
91) Indeno(1,2,3-cd)pyrene	25.76	276	338967	12.16	ng/ul#	95
92) Dibenzo(a,h)anthracene	25.76	278	93096	3.96	ng/ul#	93

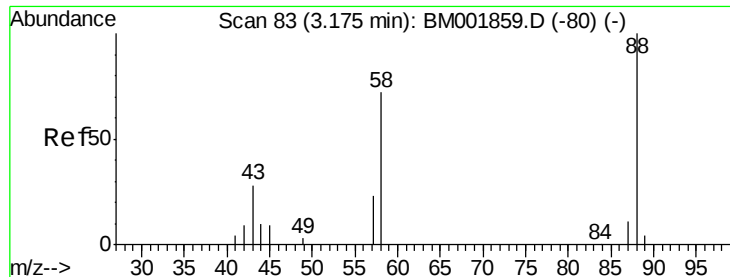
Data Path : Z:\HPCHEM1\BNA_M\DATA\BM070615\
Data File : BM001867.D
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Quant Title : SVOA CALIBRATION
QLast Update : Wed Jul 08 02:11:29 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) Benzo(g,h,i)perylene	26.45	276	341733	14.58	ng/ul	98

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



#2

1,4-Dioxane

Concen: 8.13 ng/uL

RT: 2.88 min Scan# 33

Delta R.T. -0.29 min

Lab File: BM001867.D

Acq: 07 Jul 2015 14:38

Instrument :

BNA_M

ClientSampleId :

G93K6

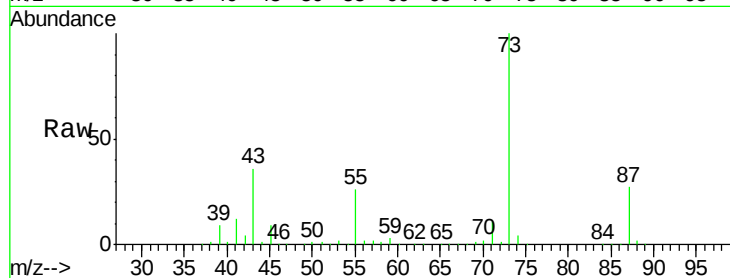
Tgt Ion: 88 Resp: 12873

Ion Ratio Lower Upper

88 100

43 2321.3 24.2 36.4#

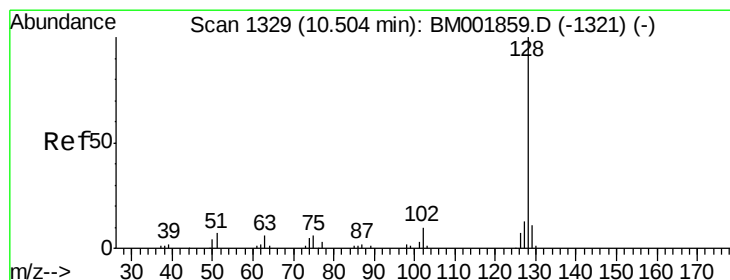
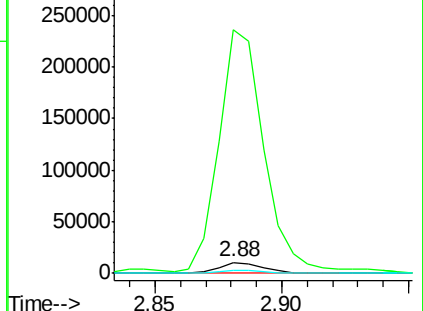
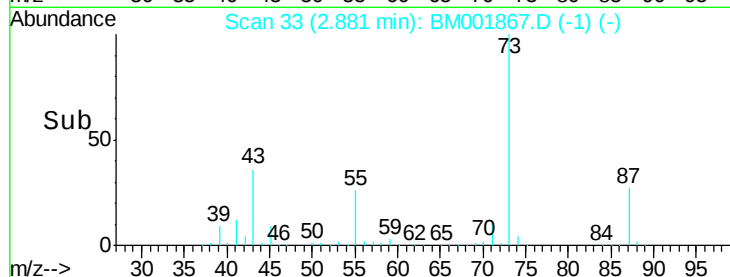
58 29.7 56.2 84.2#



Abundance Ion 88.00 (87.70 to 88.70): BM001859.D (-80) (-)

Ion 43.00 (42.70 to 43.70): BM001859.D (-80) (-)

Ion 58.00 (57.70 to 58.70): BM001859.D (-80) (-)



#28

Naphthalene

Concen: 189.60 ng/uL

RT: 10.52 min Scan# 1331

Delta R.T. 0.01 min

Lab File: BM001867.D

Acq: 07 Jul 2015 14:38

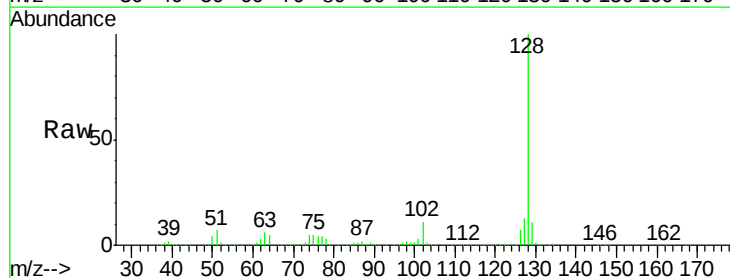
Tgt Ion: 128 Resp: 2419925

Ion Ratio Lower Upper

128 100

129 11.0 8.7 13.1

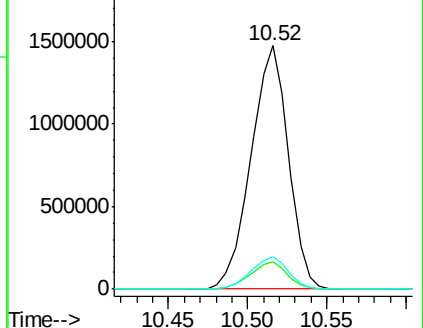
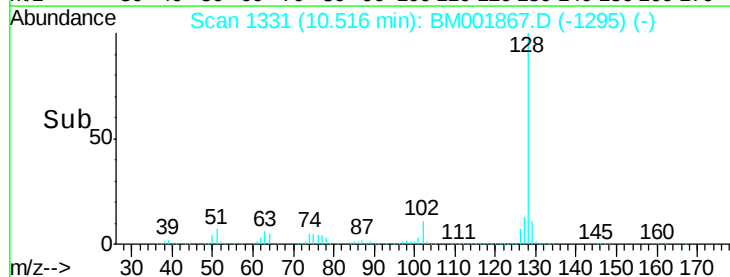
127 13.2 10.0 15.0

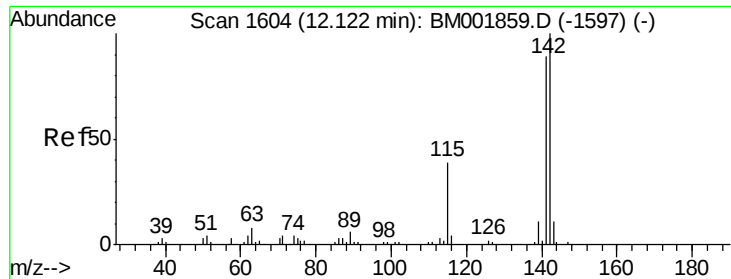


Abundance Ion 128.00 (127.70 to 128.70): BM001859.D (-1321) (-)

Ion 129.00 (128.70 to 129.70): BM001859.D (-1321) (-)

Ion 127.00 (126.70 to 127.70): BM001859.D (-1321) (-)

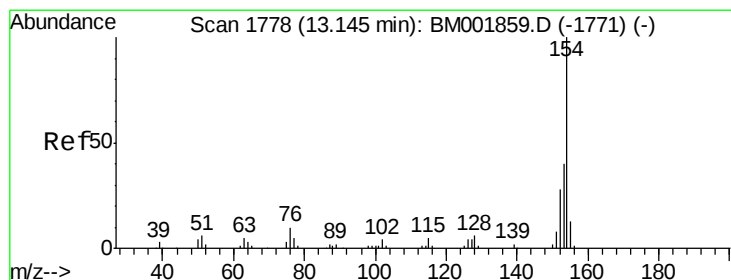
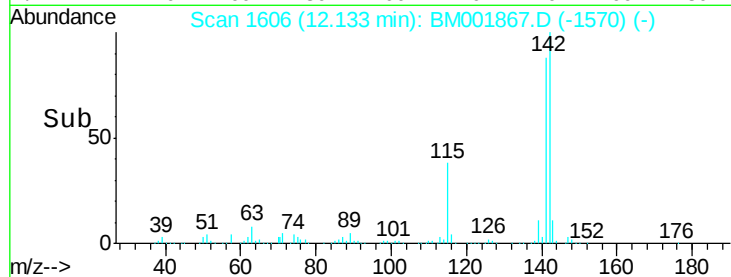
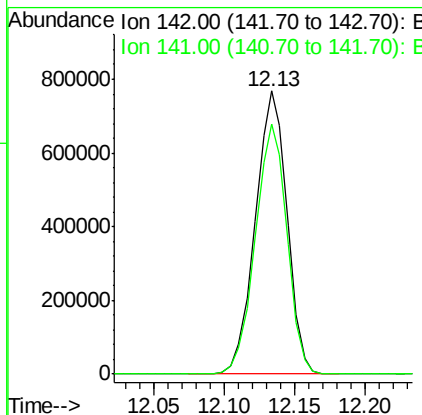
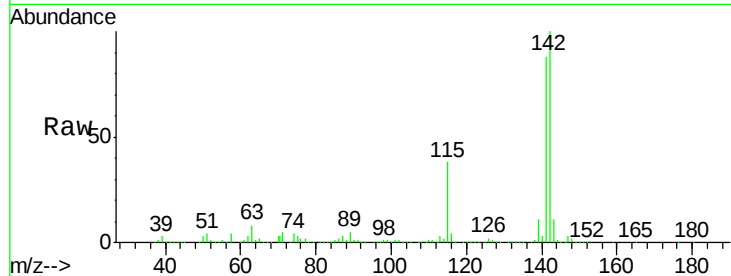




#34
 2-Methylnaphthalene
 Concen: 131.64 ng/ul
 RT: 12.13 min Scan# 1606
 Delta R.T. 0.01 min
 Lab File: BM001867.D
 Acq: 07 Jul 2015 14:38

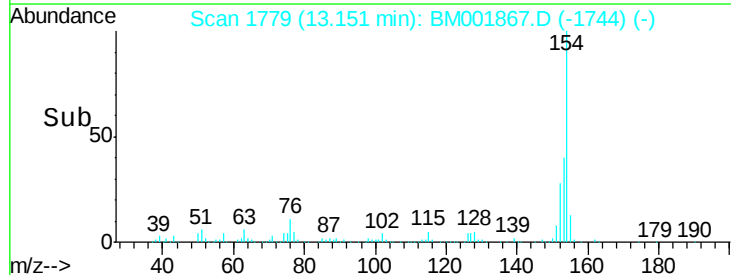
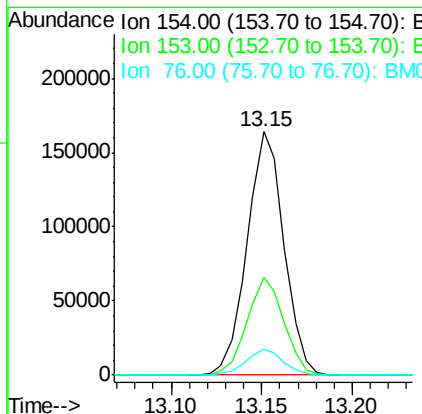
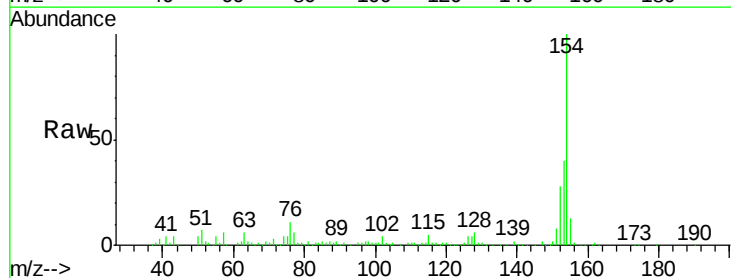
Instrument :
 BNA_M
 ClientSampleId :
 G93K6

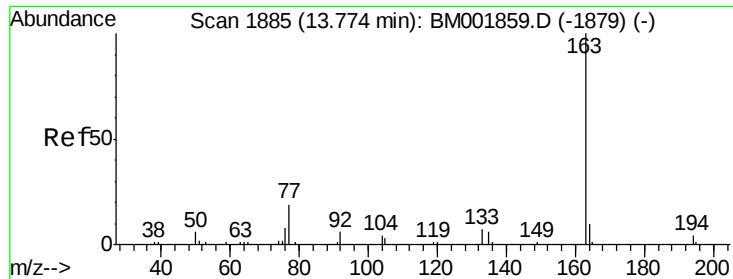
Tgt Ion:142 Resp: 1215059
 Ion Ratio Lower Upper
 142 100
 141 88.5 71.6 107.4



#40
 1,1'-Biphenyl
 Concen: 19.02 ng/ul
 RT: 13.15 min Scan# 1779
 Delta R.T. 0.01 min
 Lab File: BM001867.D
 Acq: 07 Jul 2015 14:38

Tgt Ion:154 Resp: 231440
 Ion Ratio Lower Upper
 154 100
 153 39.9 32.5 48.7
 76 10.8 9.0 13.6

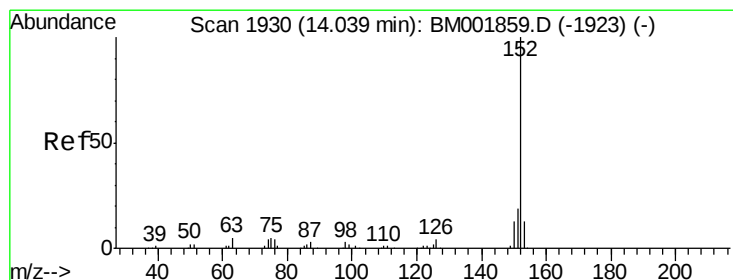
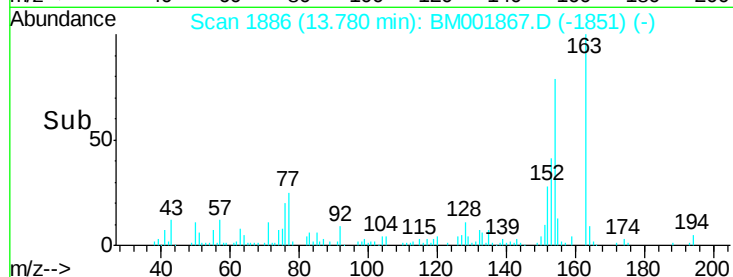
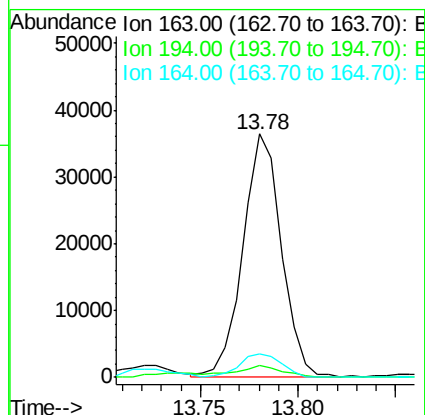
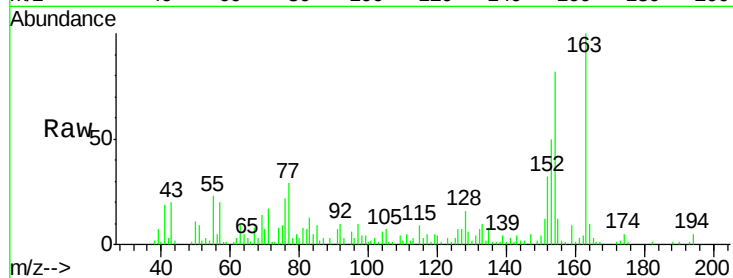




#44
Dimethylphthalate
Concen: 4.12 ng/ul
RT: 13.78 min Scan# 1886
Delta R.T. 0.01 min
Lab File: BM001867.D
Acq: 07 Jul 2015 14:38

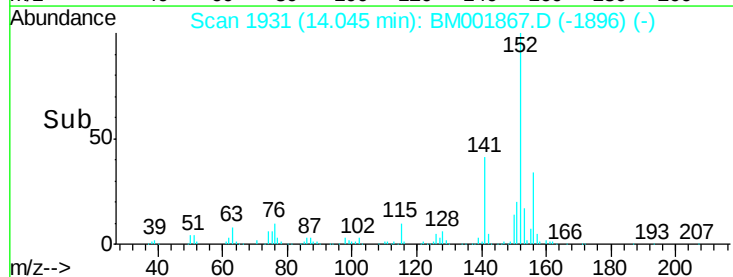
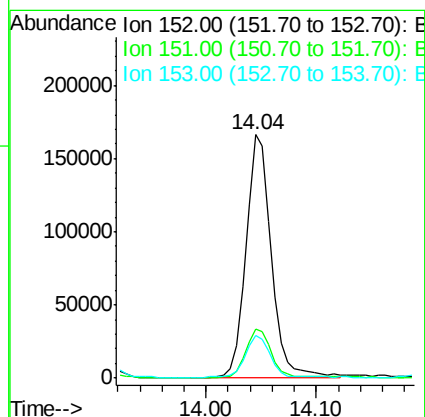
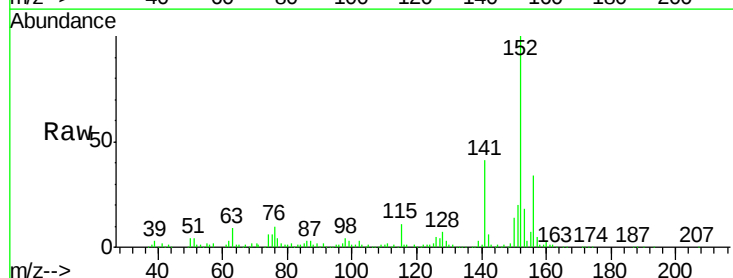
Instrument :
BNA_M
ClientSampleId :
G93K6

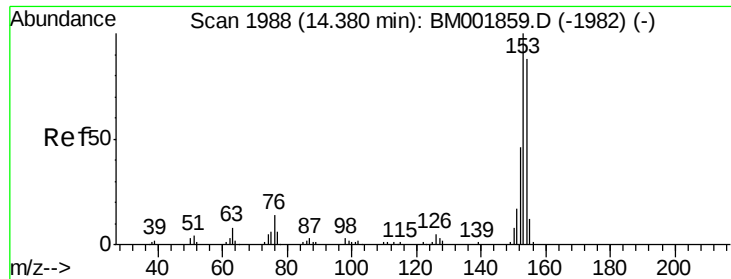
Tgt Ion:163 Resp: 49778
Ion Ratio Lower Upper
163 100
194 4.8 3.6 5.4
164 9.9 8.0 12.0



#47
Acenaphthylene
Concen: 18.31 ng/ul
RT: 14.04 min Scan# 1931
Delta R.T. 0.01 min
Lab File: BM001867.D
Acq: 07 Jul 2015 14:38

Tgt Ion:152 Resp: 270419
Ion Ratio Lower Upper
152 100
151 20.3 15.9 23.9
153 17.5 10.0 15.0#





#49

Acenaphthene

Concen: 20.52 ng/ul

RT: 14.39 min Scan# 1990

Delta R.T. 0.01 min

Lab File: BM001867.D

Acq: 07 Jul 2015 14:38

Instrument :

BNA_M

ClientSampleId :

G93K6

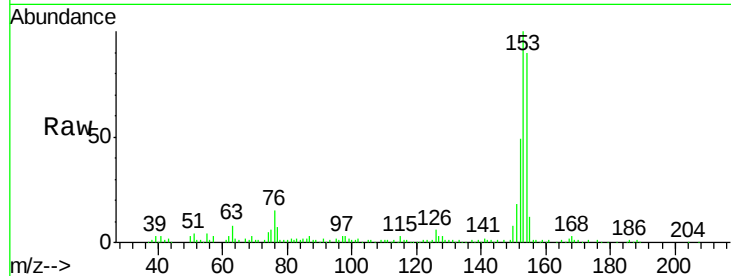
Tgt Ion:153 Resp: 202588

Ion Ratio Lower Upper

153 100

152 48.7 36.6 55.0

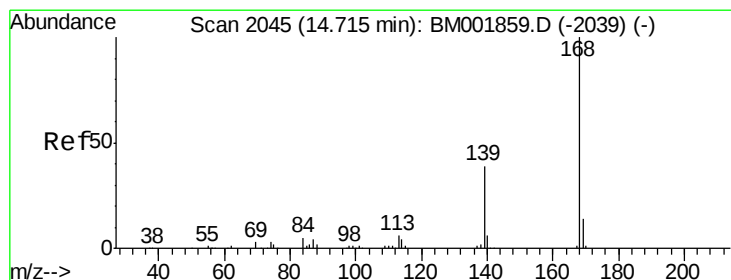
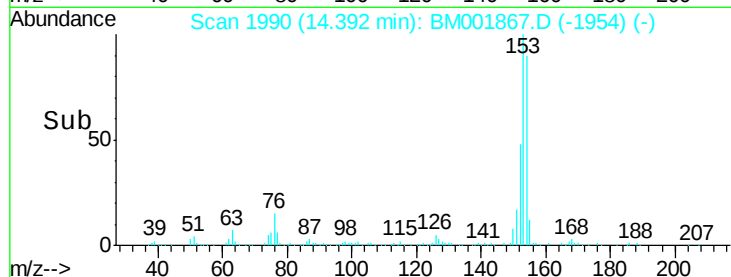
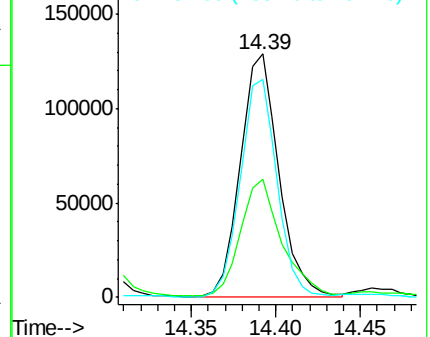
154 89.5 72.6 108.8



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: 14.23 ng/ul

RT: 14.73 min Scan# 2047

Delta R.T. 0.01 min

Lab File: BM001867.D

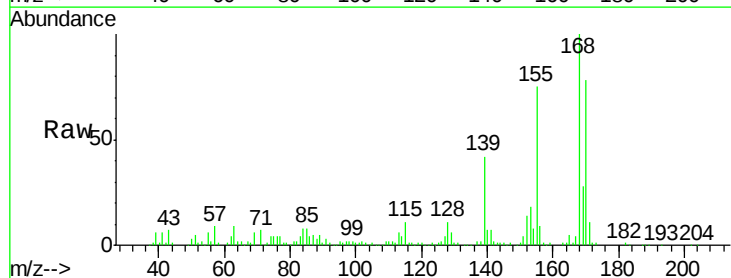
Acq: 07 Jul 2015 14:38

Tgt Ion:168 Resp: 201092

Ion Ratio Lower Upper

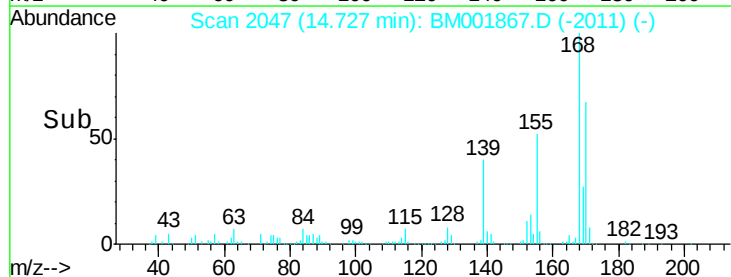
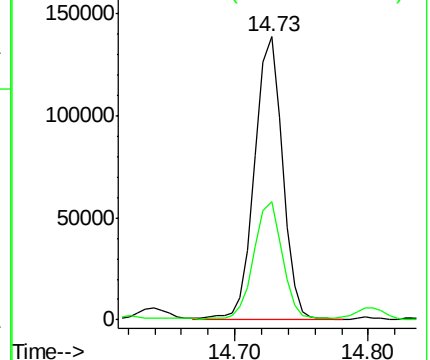
168 100

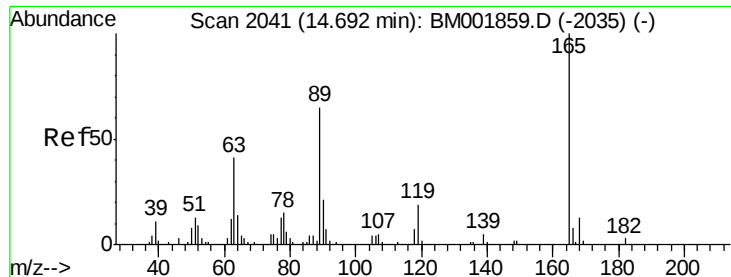
139 41.9 30.1 45.1



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E





#54

2,4-Dinitrotoluene

Concen: 1.61 ng/ul

RT: 14.69 min Scan# 2040

Delta R.T. -0.01 min

Lab File: BM001867.D

Acq: 07 Jul 2015 14:38

Instrument :

BNA_M

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G93K6

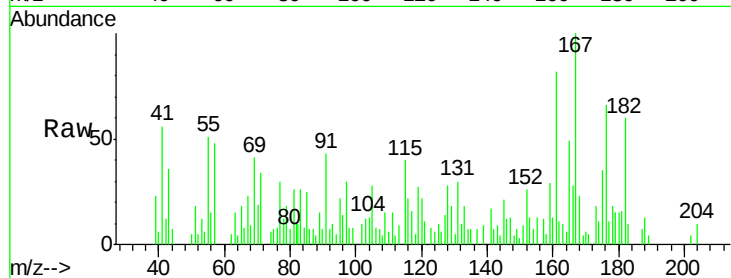
Tgt Ion:165 Resp: 5385

Ion Ratio Lower Upper

165 100

63 29.7 35.4 53.2#

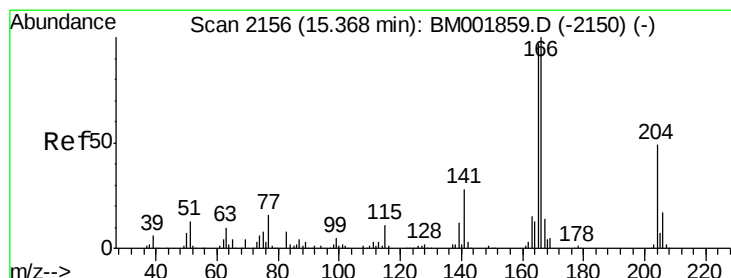
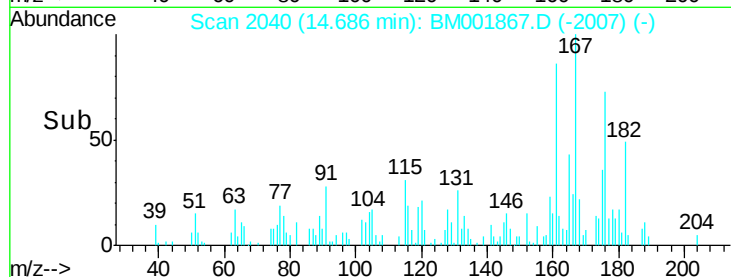
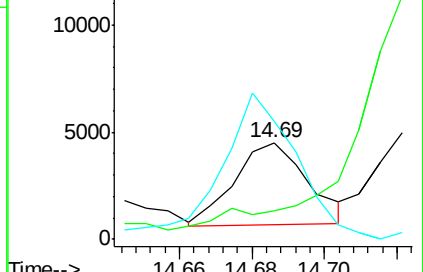
182 122.8 2.1 3.1#



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



#58

Fluorene

Concen: 48.00 ng/ul

RT: 15.38 min Scan# 2158

Delta R.T. 0.01 min

Lab File: BM001867.D

Acq: 07 Jul 2015 14:38

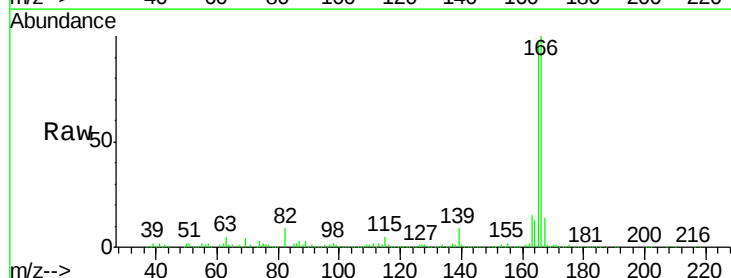
Tgt Ion:166 Resp: 564764

Ion Ratio Lower Upper

166 100

165 96.7 77.4 116.2

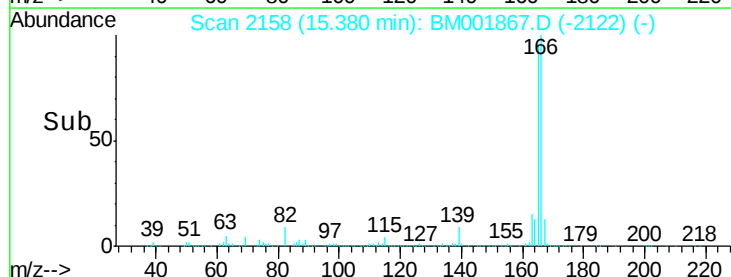
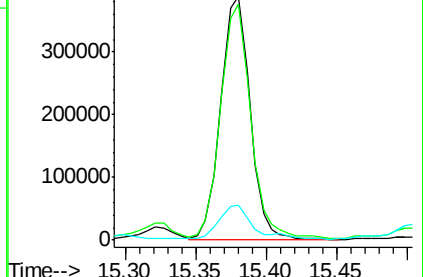
167 14.1 11.3 16.9

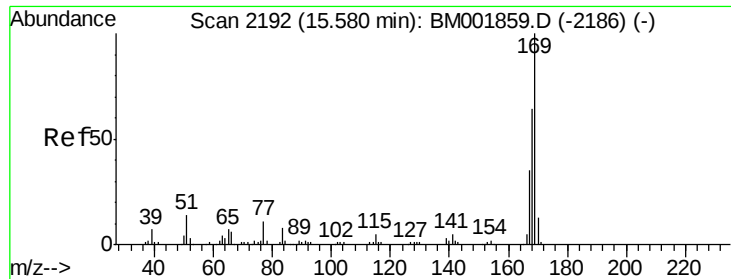


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#64

N-Nitrosodiphenylamine

Concen: 3.35 ng/ul

RT: 15.59 min Scan# 2193

Delta R.T. 0.01 min

Lab File: BM001867.D

Acq: 07 Jul 2015 14:38

Instrument :

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G93K6

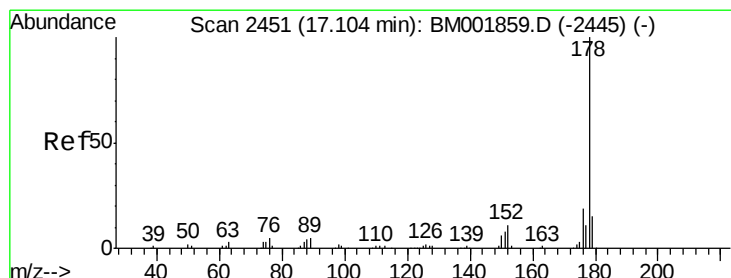
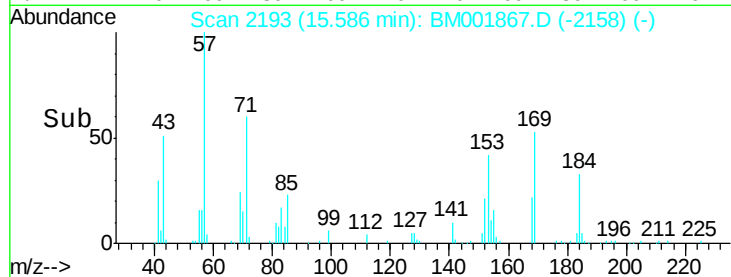
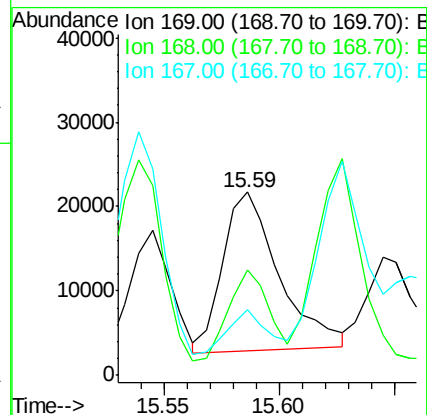
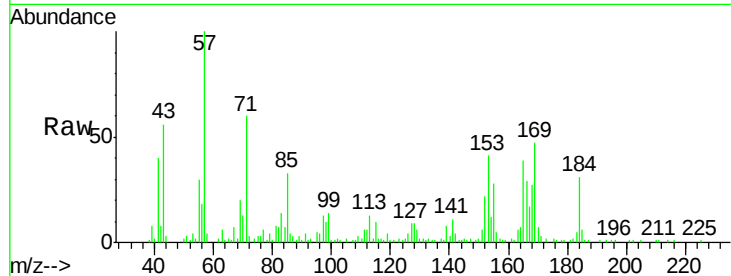
Tgt Ion:169 Resp: 31961

Ion Ratio Lower Upper

169 100

168 57.7 52.9 79.3

167 35.6 27.5 41.3



#69

Phenanthrene

Concen: 214.90 ng/ul

RT: 17.13 min Scan# 2455

Delta R.T. 0.02 min

Lab File: BM001867.D

Acq: 07 Jul 2015 14:38

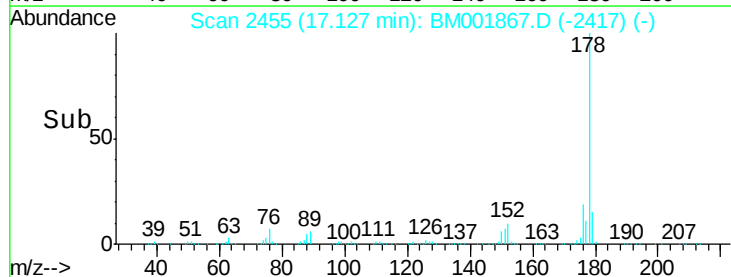
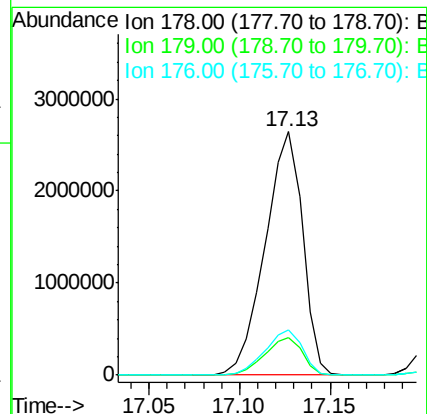
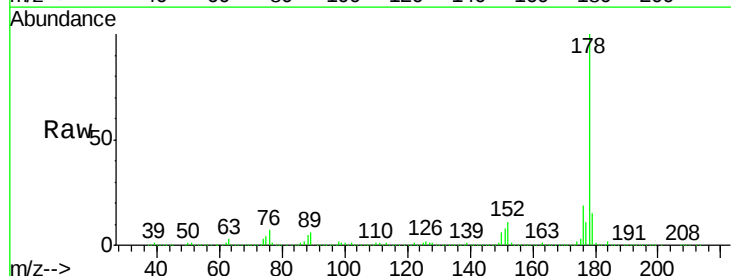
Tgt Ion:178 Resp: 3802487

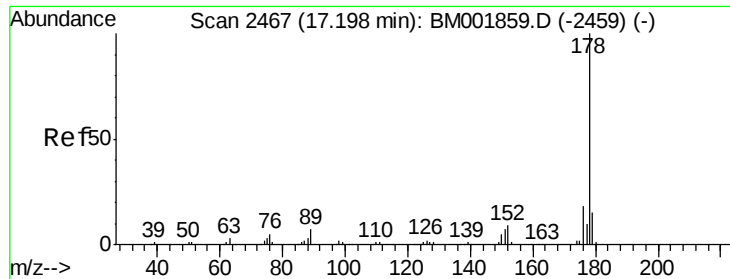
Ion Ratio Lower Upper

178 100

179 15.4 11.9 17.9

176 18.7 15.2 22.8

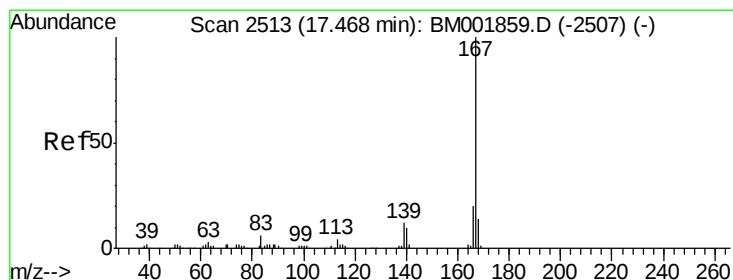
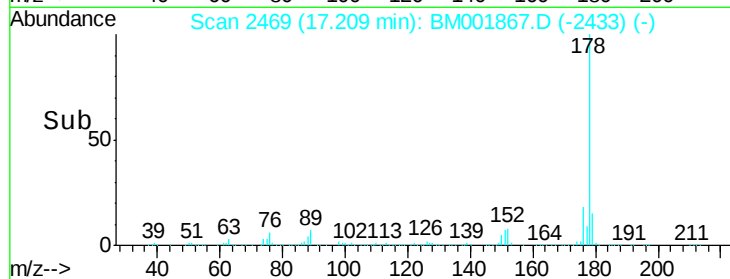
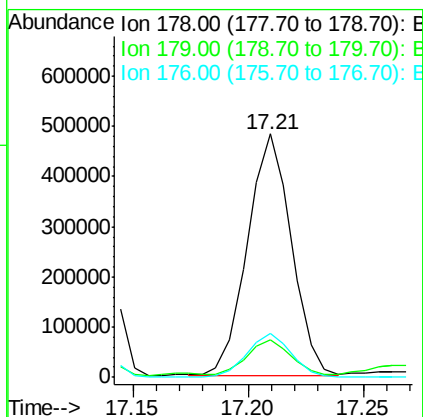
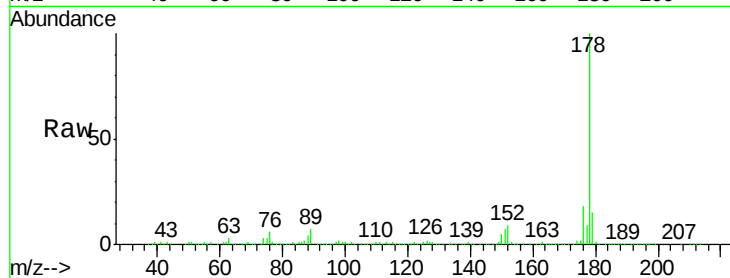




#71
 Anthracene
 Concen: 35.29 ng/ul
 RT: 17.21 min Scan# 2469
 Delta R.T. 0.01 min
 Lab File: BM001867.D
 Acq: 07 Jul 2015 14:38

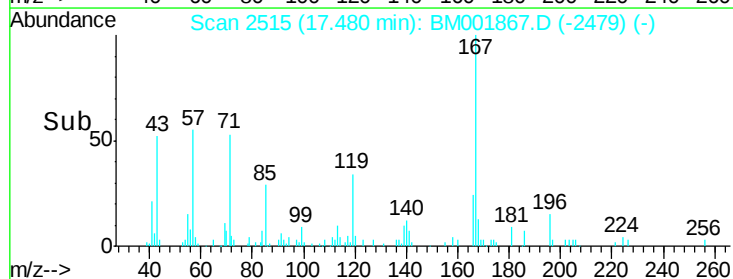
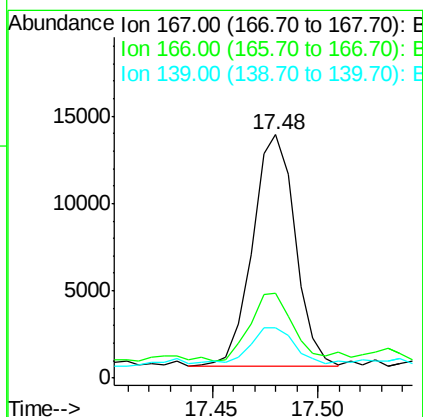
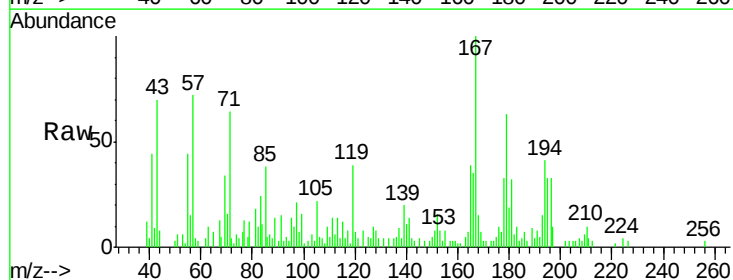
Instrument :
 BNA_M
 ClientSampleId :
 G93K6

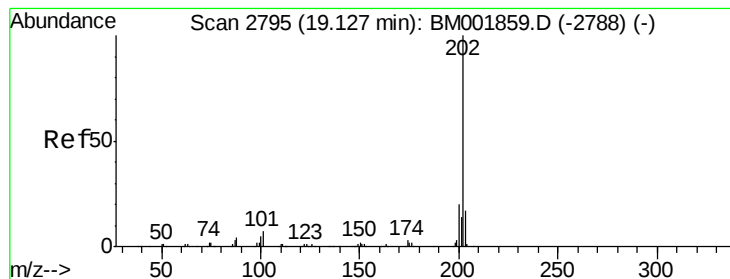
Tgt Ion:178 Resp: 641114
 Ion Ratio Lower Upper
 178 100
 179 15.4 11.8 17.8
 176 17.9 14.4 21.6



#74
 Carbazole
 Concen: 1.18 ng/ul
 RT: 17.48 min Scan# 2515
 Delta R.T. 0.01 min
 Lab File: BM001867.D
 Acq: 07 Jul 2015 14:38

Tgt Ion:167 Resp: 18756
 Ion Ratio Lower Upper
 167 100
 166 35.0 17.4 26.2#
 139 20.5 10.1 15.1#





#76

Fluoranthene

Concen: 73.40 ng/ul

RT: 19.14 min Scan# 2797

Delta R.T. 0.01 min

Lab File: BM001867.D

Acq: 07 Jul 2015 14:38

Instrument :

BNA_M

ClientSampleId :

G93K6

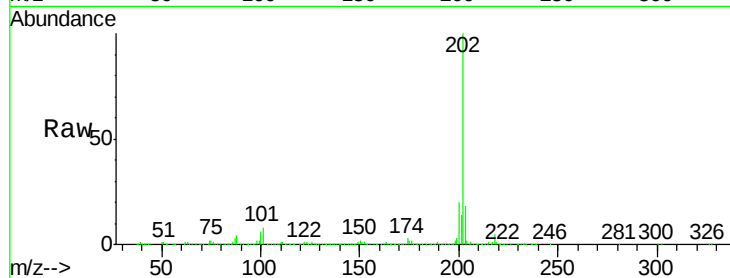
Tgt Ion:202 Resp: 1553349

Ion Ratio Lower Upper

202 100

101 7.9 6.1 9.1

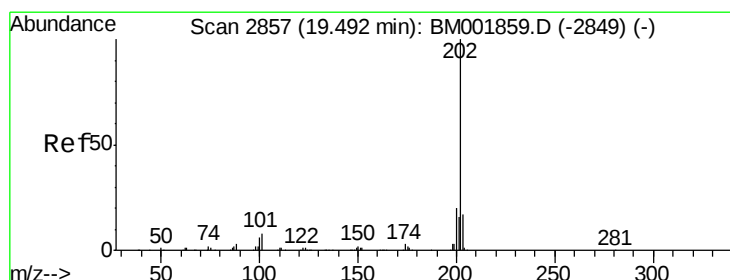
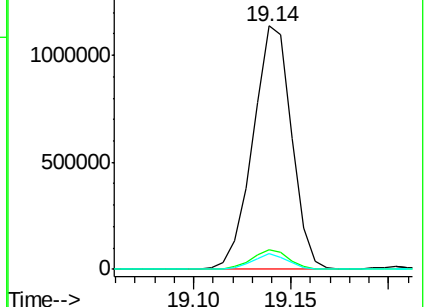
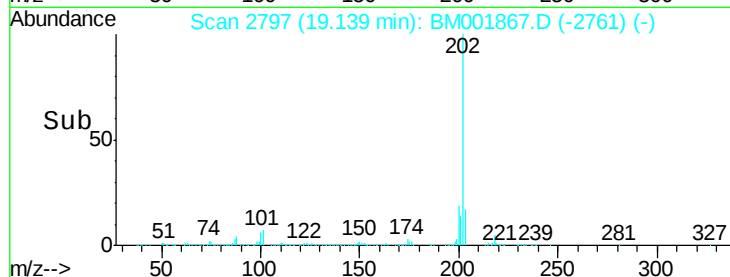
100 6.4 4.8 7.2



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



#79

Pyrene

Concen: 136.58 ng/ul

RT: 19.51 min Scan# 2860

Delta R.T. 0.02 min

Lab File: BM001867.D

Acq: 07 Jul 2015 14:38

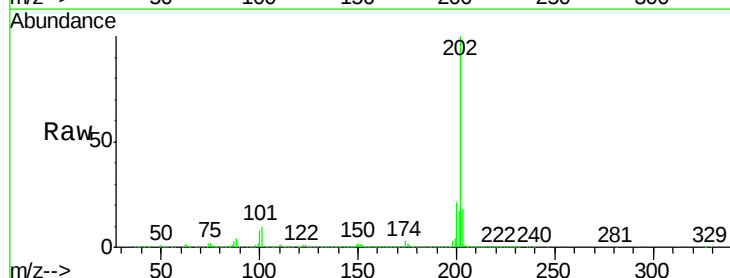
Tgt Ion:202 Resp: 3020954

Ion Ratio Lower Upper

202 100

101 9.7 6.9 10.3

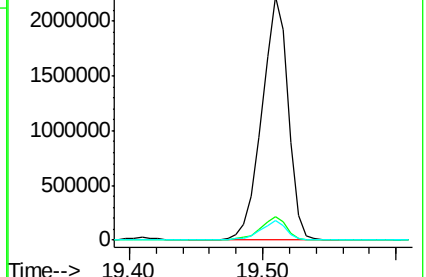
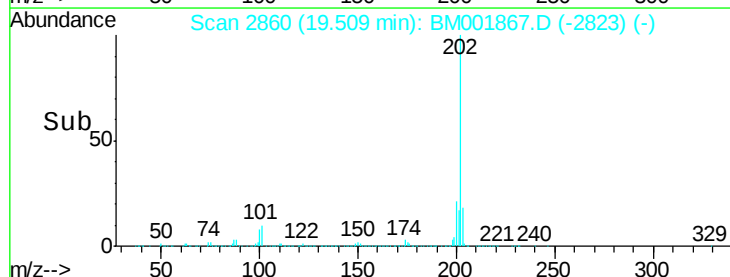
100 8.0 6.2 9.2

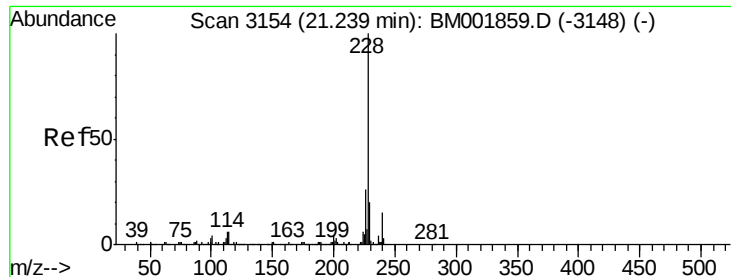


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





#82

Benzo(a)anthracene

Concen: 35.63 ng/ul

RT: 21.26 min Scan# 3157

Delta R.T. 0.02 min

Lab File: BM001867.D

Acq: 07 Jul 2015 14:38

Instrument :

BNA_M

ClientSampleId :

G93K6

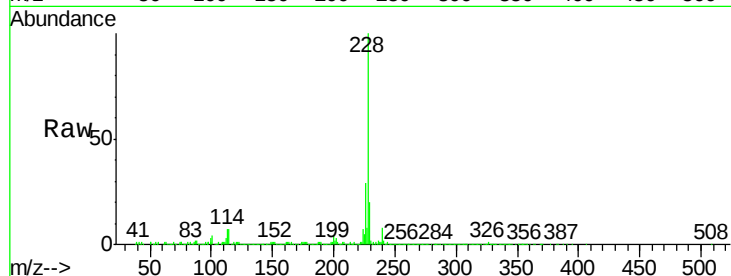
Tgt Ion:228 Resp: 830063

Ion Ratio Lower Upper

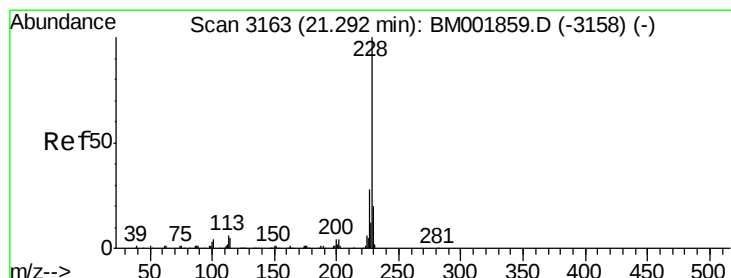
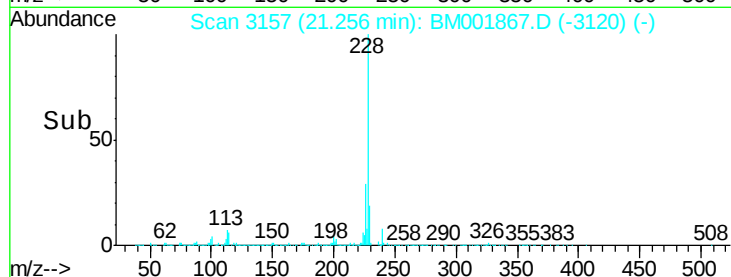
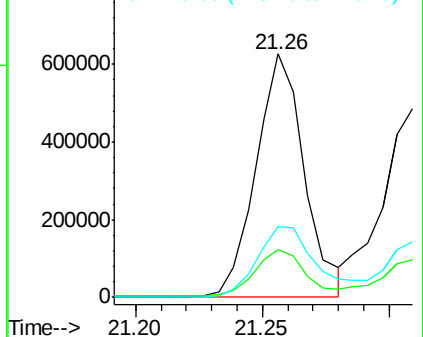
228 100

229 19.7 15.4 23.0

226 29.2 20.6 30.8



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



#84

Chrysene

Concen: 29.59 ng/ul

RT: 21.31 min Scan# 3166

Delta R.T. 0.02 min

Lab File: BM001867.D

Acq: 07 Jul 2015 14:38

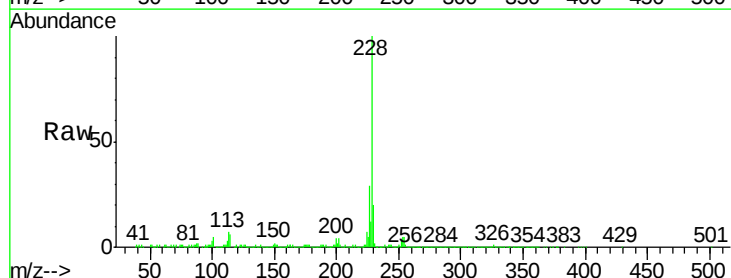
Tgt Ion:228 Resp: 653415

Ion Ratio Lower Upper

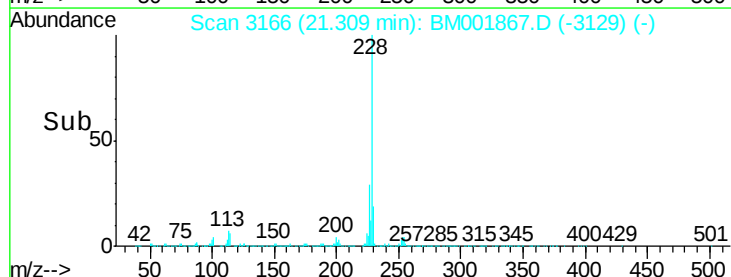
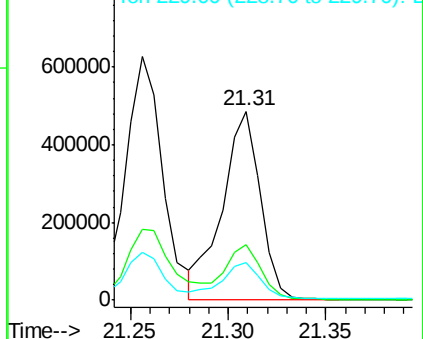
228 100

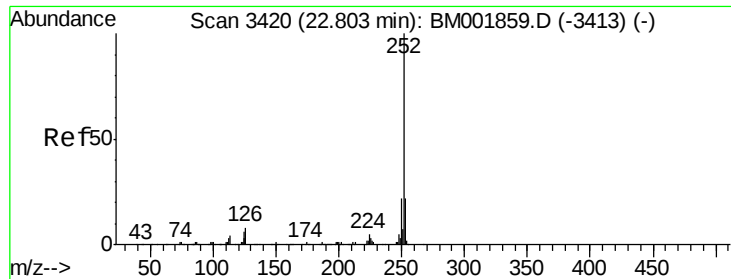
226 29.2 23.0 34.4

229 19.8 15.4 23.2



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





#87

Benzo(b)fluoranthene

Concen: 27.55 ng/ul

RT: 22.84 min Scan# 3426

Delta R.T. 0.04 min

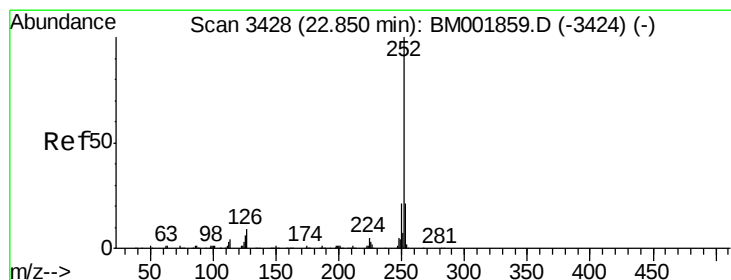
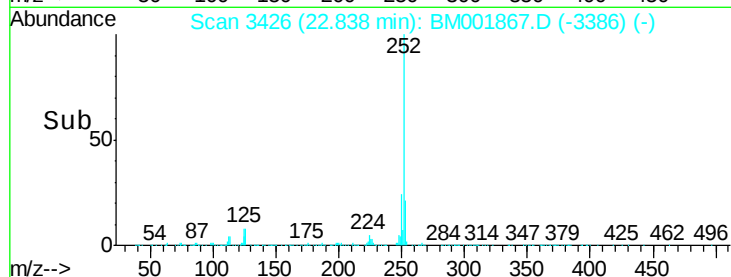
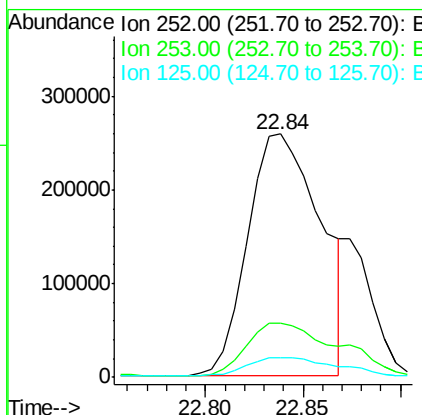
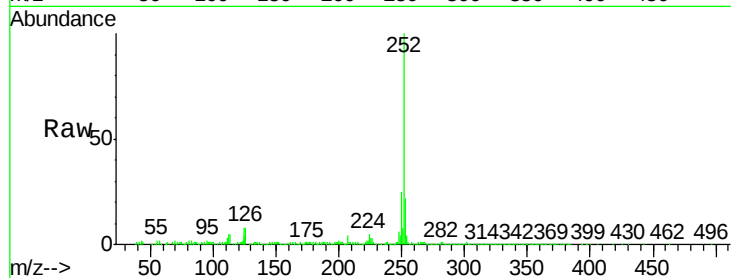
Lab File: BM001867.D

Acq: 07 Jul 2015 14:38

Instrument :
BNA_M
ClientSampleId :
G93K6

Tgt Ion:252 Resp: 665634

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.8	26.6
125	8.2	5.3	7.9#



#88

Benzo(k)fluoranthene

Concen: 8.24 ng/ul

RT: 22.84 min Scan# 3426

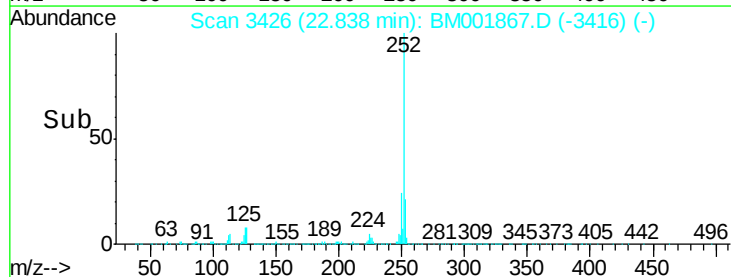
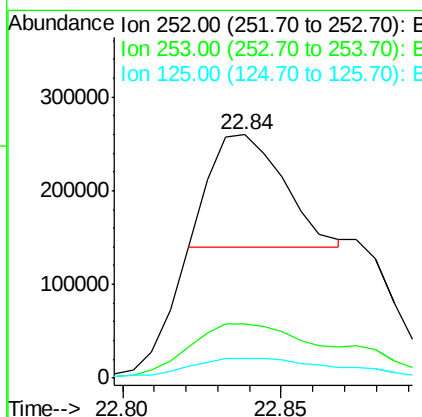
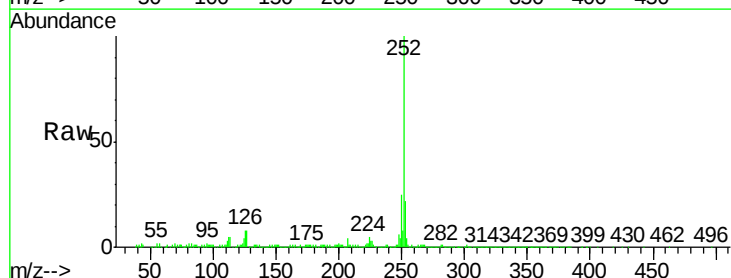
Delta R.T. -0.01 min

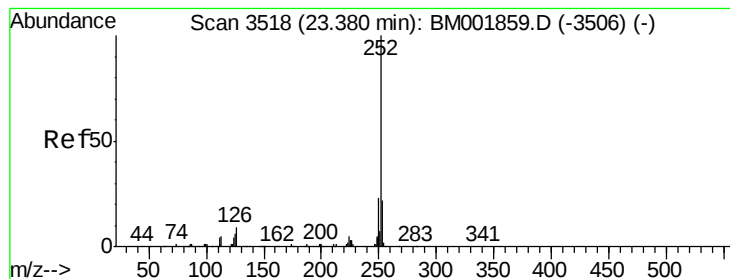
Lab File: BM001867.D

Acq: 07 Jul 2015 14:38

Tgt Ion:252 Resp: 192438

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.1	25.7
125	8.2	5.3	7.9#





#90

Benzo(a)pyrene

Concen: 33.95 ng/ul

RT: 23.41 min Scan# 3523

Delta R.T. 0.03 min

Lab File: BM001867.D

Acq: 07 Jul 2015 14:38

Instrument :

BNA_M

ClientSampleId :

G93K6

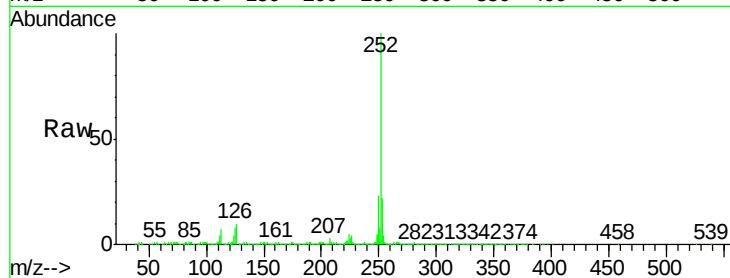
Tgt Ion:252 Resp: 798020

Ion Ratio Lower Upper

252 100

253 22.3 17.4 26.0

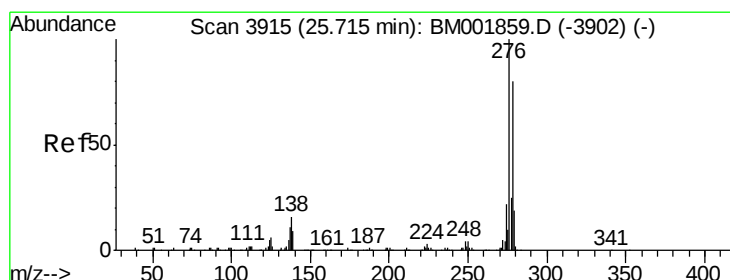
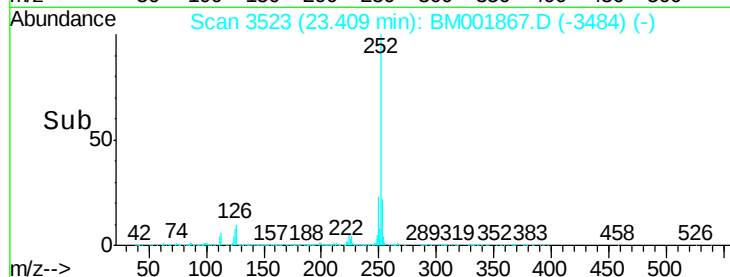
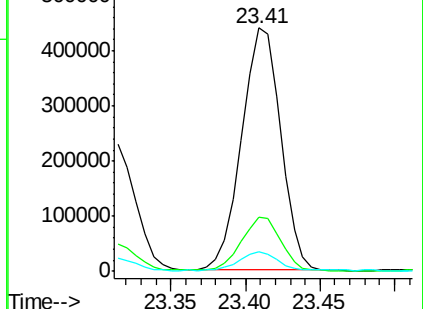
125 8.1 6.0 9.0



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



#91

Indeno(1,2,3-cd)pyrene

Concen: 12.16 ng/ul

RT: 25.76 min Scan# 3922

Delta R.T. 0.04 min

Lab File: BM001867.D

Acq: 07 Jul 2015 14:38

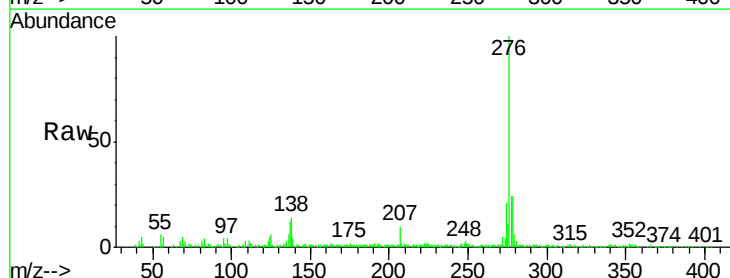
Tgt Ion:276 Resp: 338967

Ion Ratio Lower Upper

276 100

138 13.9 14.7 22.1#

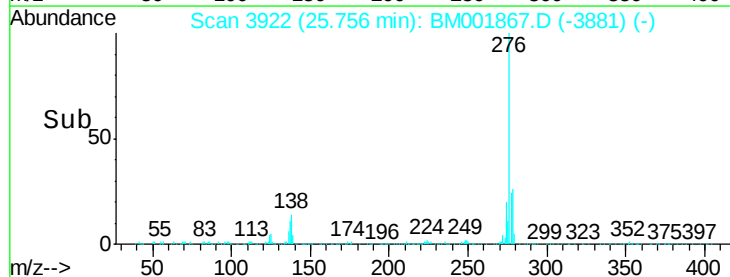
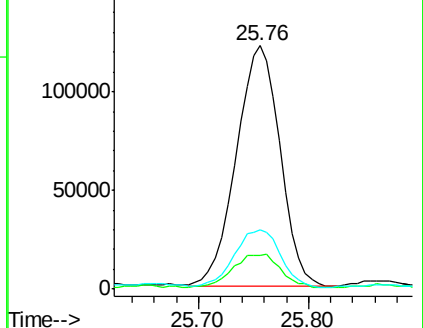
277 24.3 19.7 29.5

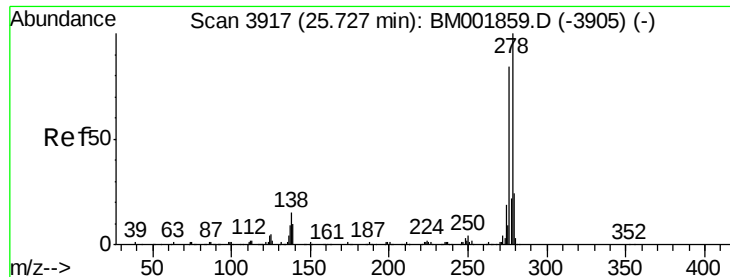


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#92

Dibenzo(a,h)anthracene

Concen: 3.96 ng/ul

RT: 25.76 min Scan# 3922

Delta R.T. 0.03 min

Lab File: BM001867.D

Acq: 07 Jul 2015 14:38

Instrument :

BNA_M

ClientSampleId :

G93K6

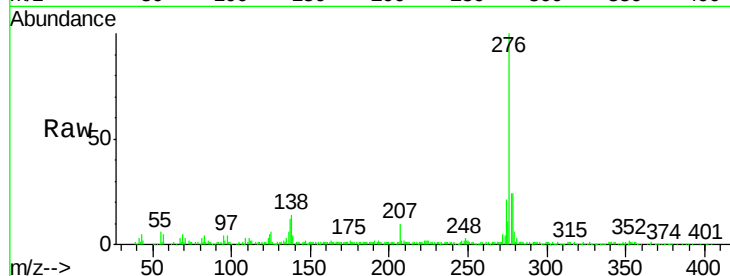
Tgt Ion:278 Resp: 93096

Ion Ratio Lower Upper

278 100

139 18.6 9.2 13.8#

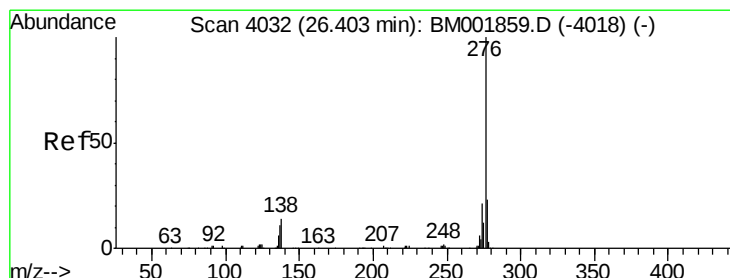
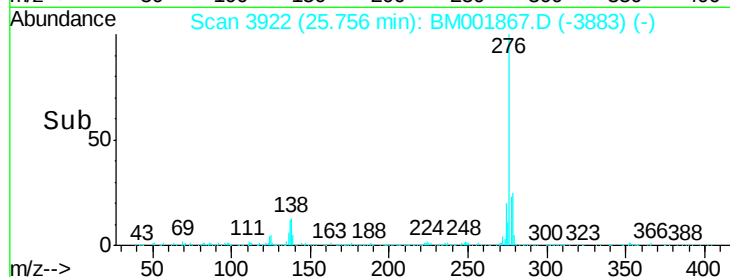
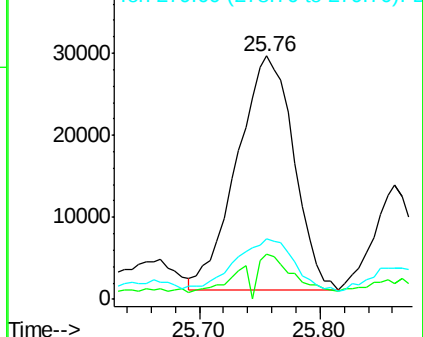
279 24.7 19.1 28.7



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



#93

Benzo(g,h,i)perylene

Concen: 14.58 ng/ul

RT: 26.45 min Scan# 4040

Delta R.T. 0.05 min

Lab File: BM001867.D

Acq: 07 Jul 2015 14:38

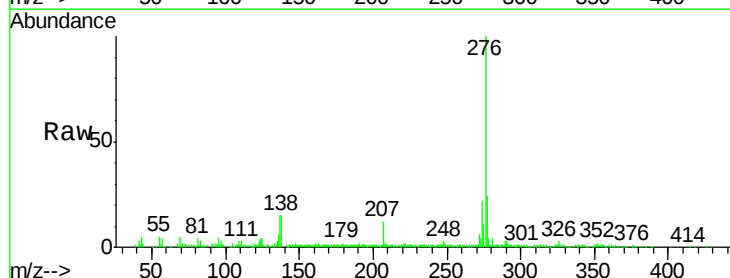
Tgt Ion:276 Resp: 341733

Ion Ratio Lower Upper

276 100

138 15.1 12.6 19.0

277 24.4 18.7 28.1



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

