

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM073015\
 Data File : BM002134.D
 Acq On : 30 Jul 2015 13:37
 Operator : TP/UM
 Sample : G3030-20RE
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 C02K6RE

Quant Time: Jul 31 01:28:53 2015
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM072715.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri Jul 31 01:27:14 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.59	152	152263	20.00	ng/ul	0.00
18) Naphthalene-d8	10.37	136	636228	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.26	164	354251	20.00	ng/ul	0.00
62) Phenanthrene-d10	17.01	188	690766	20.00	ng/ul	0.00
78) Chrysene-d12	21.22	240	788713	20.00	ng/ul	0.02
86) Perylene-d12	23.43	264	754317	20.00	ng/ul	0.03

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.06	96	8891	3.02	ng/uL	0.00
5) Phenol-d5	6.77	99	249131	22.89	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	6.93	67	132696	22.05	ng/ul	0.00
9) 2-Chlorophenol-d4	7.12	132	212625	23.04	ng/ul	0.00
13) 4-Methylphenol-d8	8.30	113	199293	23.03	ng/ul	0.00
19) Nitrobenzene-d5	8.75	128	101688	22.48	ng/ul	0.00
22) 2-Nitrophenol-d4	9.47	143	120899	24.06	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.00	165	217987	22.52	ng/ul	0.00
29) 4-Chloroaniline-d4	10.53	131	143368	13.48	ng/ul	0.00
44) Dimethylphthalate-d6	13.67	166	580157	22.36	ng/ul	0.00
47) Acenaphthylene-d8	13.94	160	640660	19.75	ng/ul	0.00
52) 4-Nitrophenol-d4	14.48	143	73327	16.93	ng/ul	0.00
58) Fluorene-d10	15.25	176	417982	18.31	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.39	200	37925	8.98	ng/ul	0.00
71) Anthracene-d10	17.11	188	575219	18.66	ng/ul	0.00
79) Pyrene-d10	19.42	212	591111	17.80	ng/ul	0.02
90) Benzo(a)pyrene-d12	23.29	264	628273	17.18	ng/ul	0.02

Target Compounds

					Qvalue
17) Hexachloroethane	8.69	117	4657	1.23 ng/ul#	1
28) Naphthalene	10.43	128	215925	7.14 ng/ul	99
34) 2-Methylnaphthalene	12.05	142	51672	2.35 ng/ul	100
35) 1-Methylnaphthalene	12.27	142	39461	1.87 ng/ul	94
45) Dimethylphthalate	13.72	163	236583	9.13 ng/ul	100
48) Acenaphthylene	13.97	152	65681	1.96 ng/ul	96
50) Acenaphthene	14.32	153	188033	8.57 ng/ul	98
54) Dibenzofuran	14.66	168	157974	5.02 ng/ul	98
59) Fluorene	15.31	166	207781	7.99 ng/ul	98
70) Phenanthrene	17.06	178	2939137	82.15 ng/ul	99
72) Anthracene	17.14	178	782226	21.39 ng/ul	99
75) Carbazole	17.42	167	291834	9.34 ng/ul	97
76) Di-n-butylphthalate	17.97	149	94399	2.53 ng/ul#	91
77) Fluoranthene	19.09	202	4468937	108.17 ng/ul#	96
80) Pyrene	19.46	202	3870420	90.18 ng/ul	98
81) Butylbenzylphthalate	20.35	149	23985	1.46 ng/ul#	82
83) Benzo(a)anthracene	21.21	228	2165438	49.53 ng/ul	97
84) Bis(2-ethylhexyl)phthalate	21.13	149	354369	14.12 ng/ul	100
85) Chrysene	21.26	228	2012517	49.20 ng/ul	96
88) Benzo(b)fluoranthene	22.77	252	2269784	53.55 ng/ul#	96
89) Benzo(k)fluoranthene	22.77	252	524600	12.83 ng/ul	97
91) Benzo(a)pyrene	23.34	252	1562243	38.18 ng/ul	98
92) Indeno(1,2,3-cd)pyrene	25.64	276	938743	19.91 ng/ul	96

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ALS Vial : 4 Sample Multiplier: 1

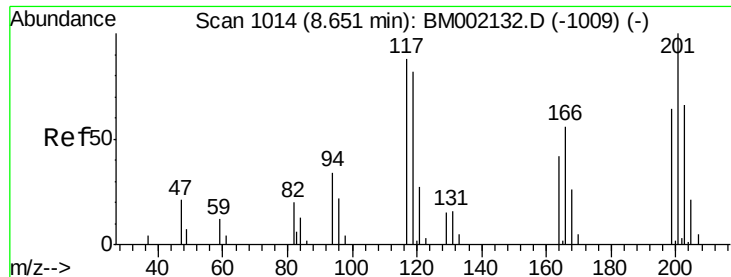
Instrument :
BNA_M
ClientSampleId :
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Quant Time: Jul 31 01:28:53 2015
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) Dibenzo(a,h)anthracene	25.64	278	279783	6.93	ng/ul#	90
94) Benzo(g,h,i)perylene	26.34	276	817707	20.69	ng/ul	97

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

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Misc      :
ALS Vial  : 4      Sample Multiplier: 1
```



#17

Hexachloroethane

Concen: 1.23 ng/ul

RT: 8.69 min Scan# 1020

Delta R.T. 0.04 min

Lab File: BM002134.D

Acq: 30 Jul 2015 13:37

Instrument :

BNA_M

ClientSampleId :

C02K6RE

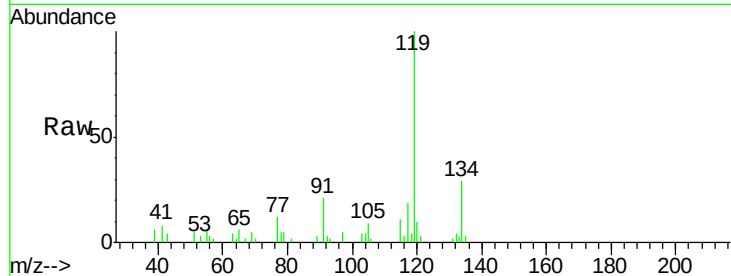
Tgt Ion:117 Resp: 4657

Ion Ratio Lower Upper

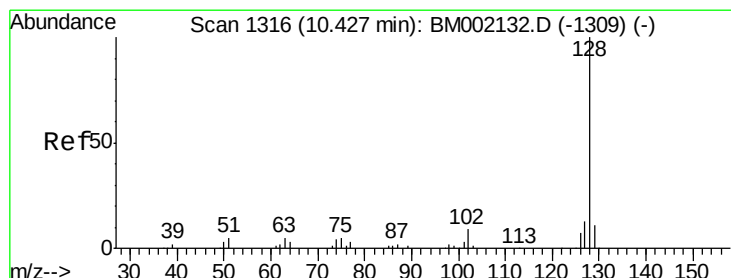
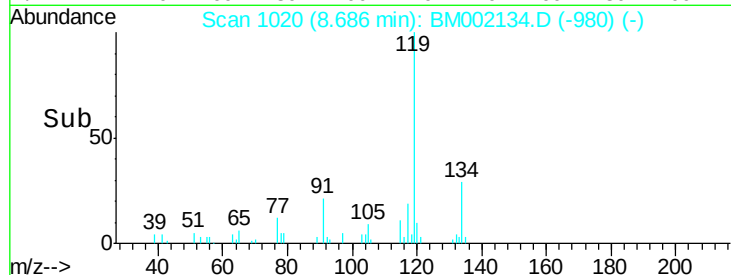
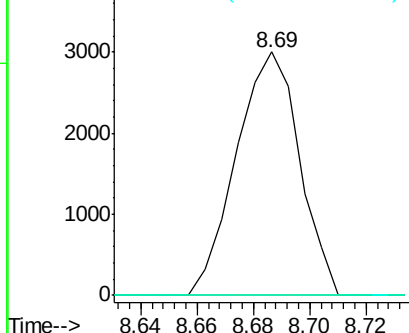
117 100

201 0.0 96.1 144.1#

199 0.0 61.8 92.6#



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



#28

Naphthalene

Concen: 7.14 ng/ul

RT: 10.43 min Scan# 1316

Delta R.T. 0.00 min

Lab File: BM002134.D

Acq: 30 Jul 2015 13:37

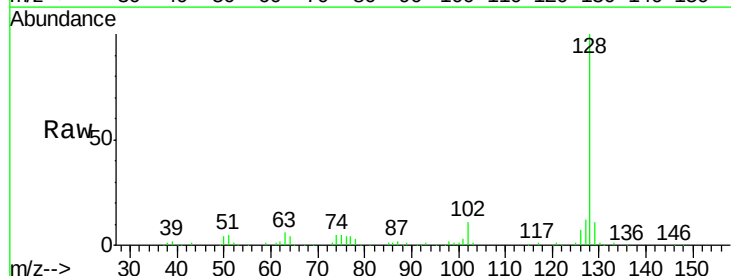
Tgt Ion:128 Resp: 215925

Ion Ratio Lower Upper

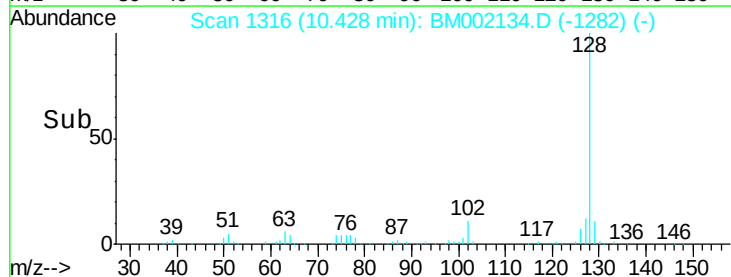
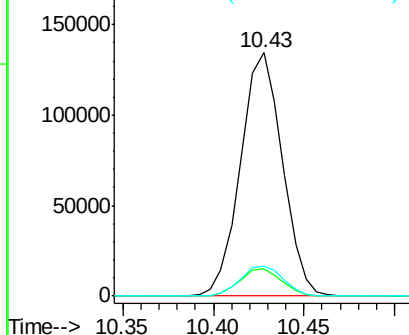
128 100

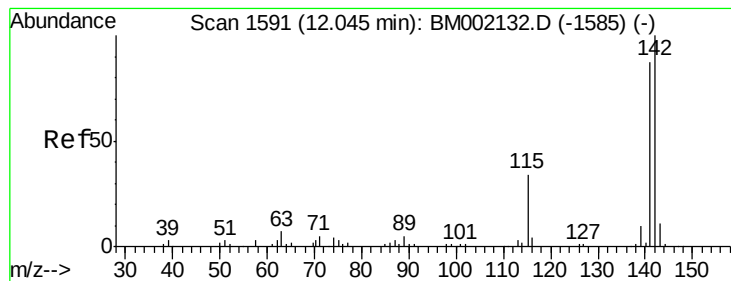
129 11.1 9.0 13.4

127 12.5 10.2 15.4



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





#34

2-Methylnaphthalene

Concen: 2.35 ng/ul

RT: 12.05 min Scan# 1591

Delta R.T. 0.00 min

Lab File: BM002134.D

Acq: 30 Jul 2015 13:37

Instrument :

BNA_M

ClientSampleId :

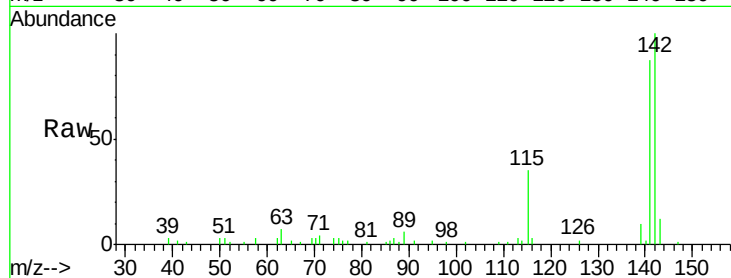
C02K6RE

Tgt Ion:142 Resp: 51672

Ion Ratio Lower Upper

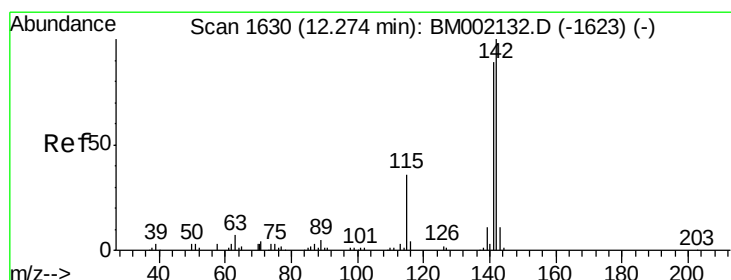
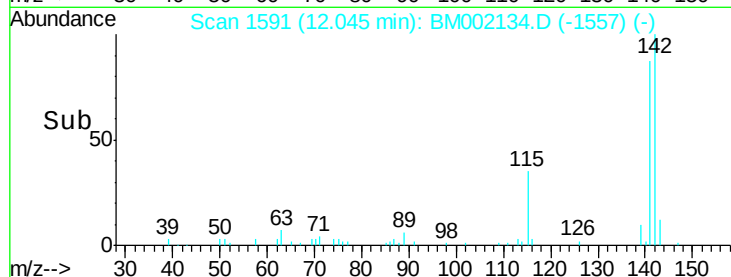
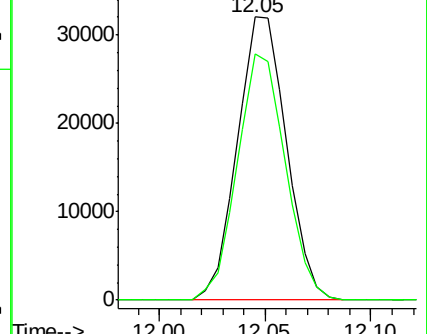
142 100

141 87.2 69.8 104.6



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E



#35

1-Methylnaphthalene

Concen: 1.87 ng/ul

RT: 12.27 min Scan# 1629

Delta R.T. -0.01 min

Lab File: BM002134.D

Acq: 30 Jul 2015 13:37

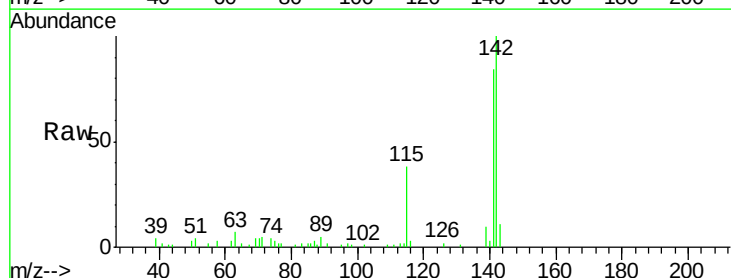
Tgt Ion:142 Resp: 39461

Ion Ratio Lower Upper

142 100

141 84.2 72.4 108.6

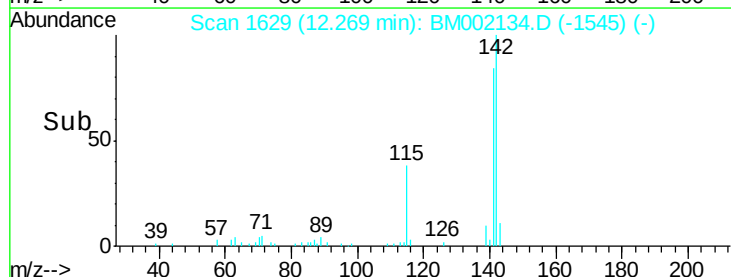
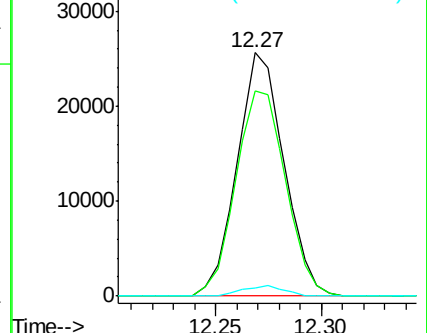
116 3.5 3.2 4.8

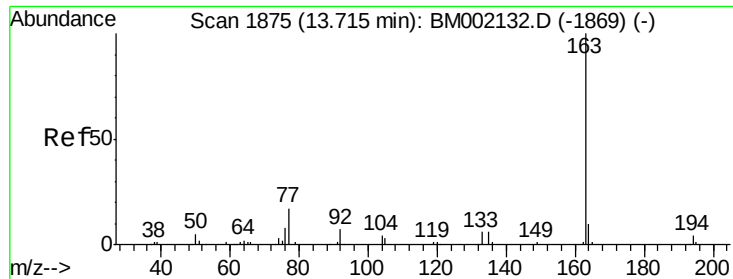


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E

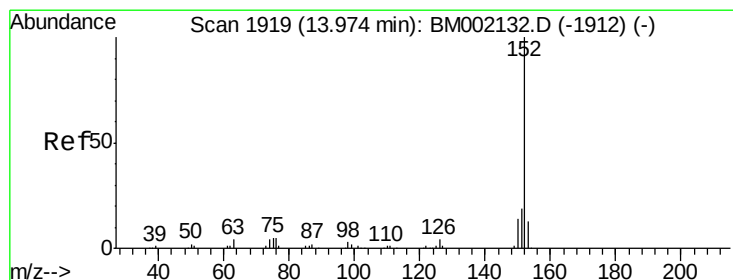
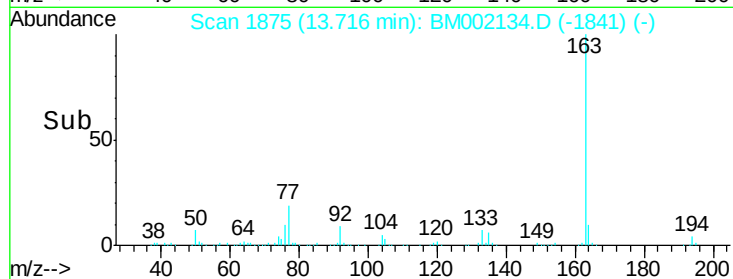
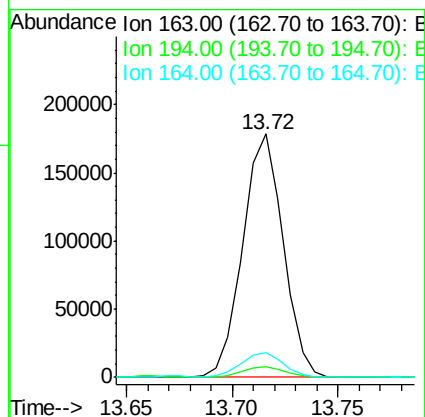
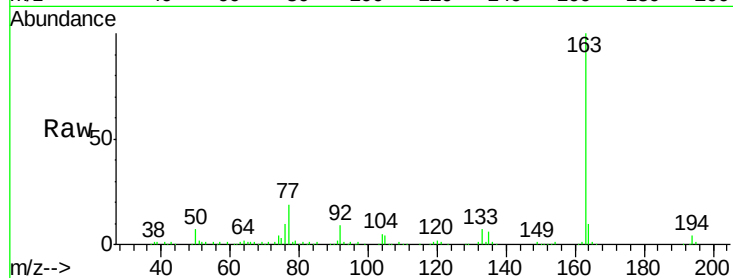




#45
Dimethylphthalate
Concen: 9.13 ng/ul
RT: 13.72 min Scan# 1875
Delta R.T. 0.00 min
Lab File: BM002134.D
Acq: 30 Jul 2015 13:37

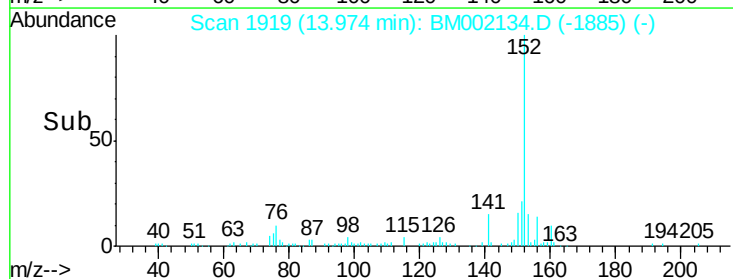
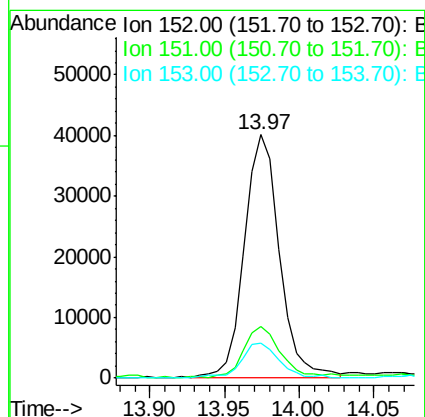
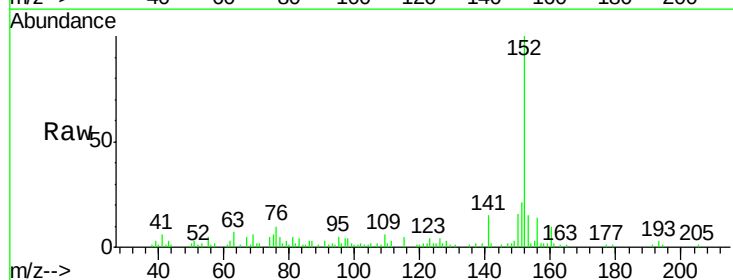
Instrument :
BNA_M
ClientSampleId :
C02K6RE

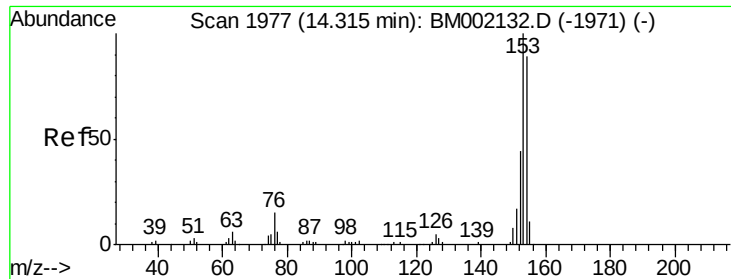
Tgt Ion:163 Resp: 236583
Ion Ratio Lower Upper
163 100
194 4.3 3.5 5.3
164 10.1 8.0 12.0



#48
Acenaphthylene
Concen: 1.96 ng/ul
RT: 13.97 min Scan# 1919
Delta R.T. 0.00 min
Lab File: BM002134.D
Acq: 30 Jul 2015 13:37

Tgt Ion:152 Resp: 65681
Ion Ratio Lower Upper
152 100
151 21.4 15.6 23.4
153 14.6 10.3 15.5





#50

Acenaphthene

Concen: 8.57 ng/ul

RT: 14.32 min Scan# 1977

Delta R.T. 0.00 min

Lab File: BM002134.D

Acq: 30 Jul 2015 13:37

Instrument :

BNA_M

ClientSampleId :

C02K6RE

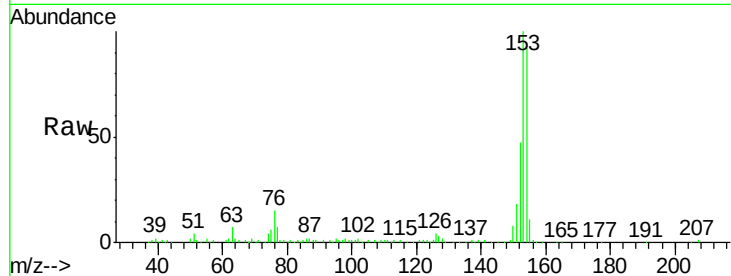
Tgt Ion:153 Resp: 188033

Ion Ratio Lower Upper

153 100

152 46.8 37.3 55.9

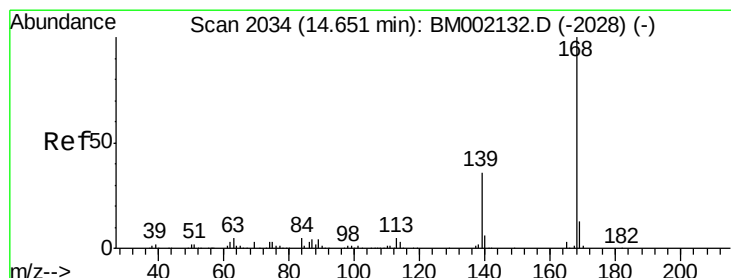
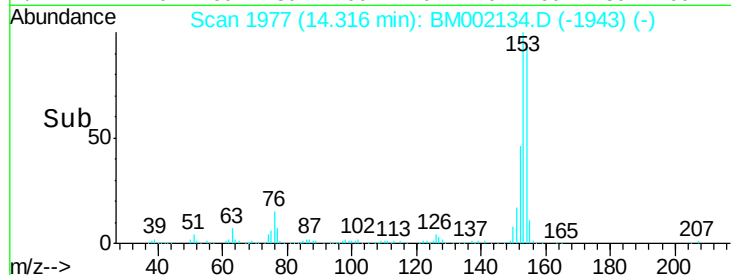
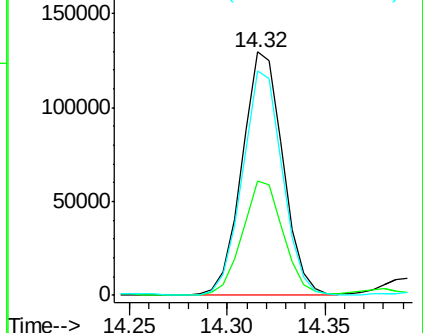
154 92.3 71.4 107.2



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



#54

Dibenzofuran

Concen: 5.02 ng/ul

RT: 14.66 min Scan# 2035

Delta R.T. 0.01 min

Lab File: BM002134.D

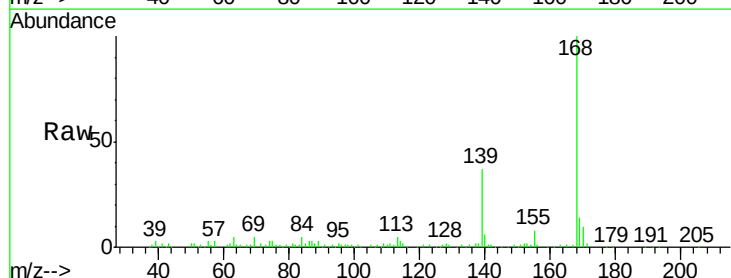
Acq: 30 Jul 2015 13:37

Tgt Ion:168 Resp: 157974

Ion Ratio Lower Upper

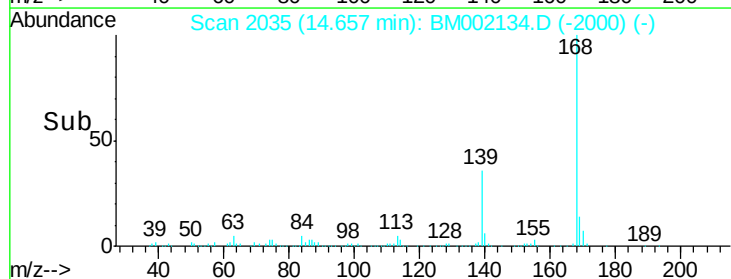
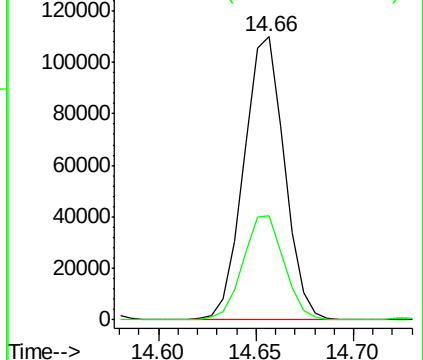
168 100

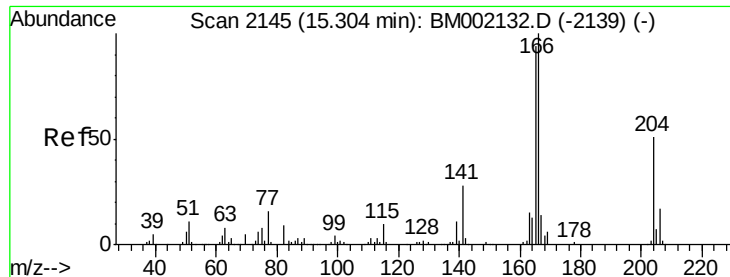
139 36.6 28.2 42.2



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E





#59

Fluorene

Concen: 7.99 ng/ul

RT: 15.31 min Scan# 2146

Delta R.T. 0.01 min

Lab File: BM002134.D

Acq: 30 Jul 2015 13:37

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ClientSampleId :

C02K6RE

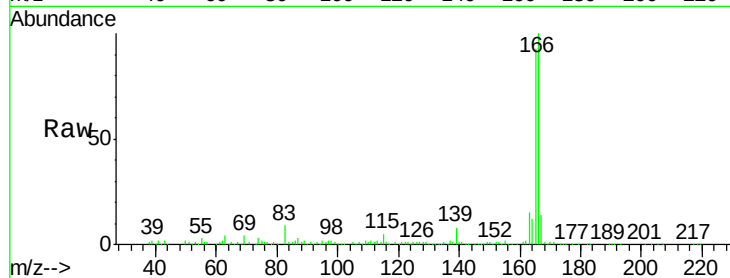
Tgt Ion:166 Resp: 207781

Ion Ratio Lower Upper

166 100

165 92.8 75.6 113.4

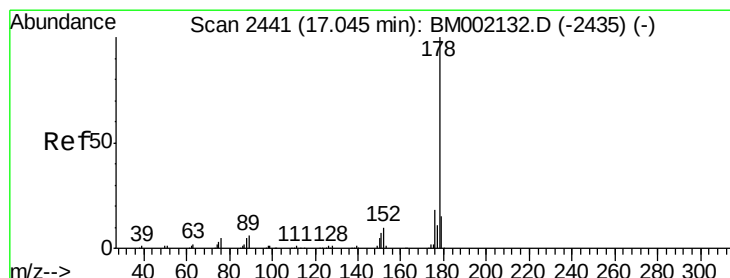
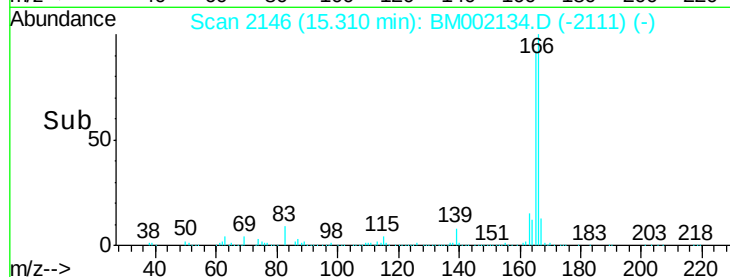
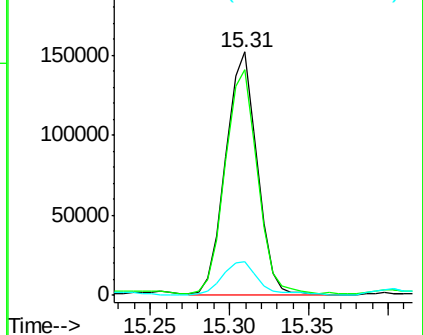
167 14.0 10.5 15.7



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



#70

Phenanthrene

Concen: 82.15 ng/ul

RT: 17.06 min Scan# 2443

Delta R.T. 0.01 min

Lab File: BM002134.D

Acq: 30 Jul 2015 13:37

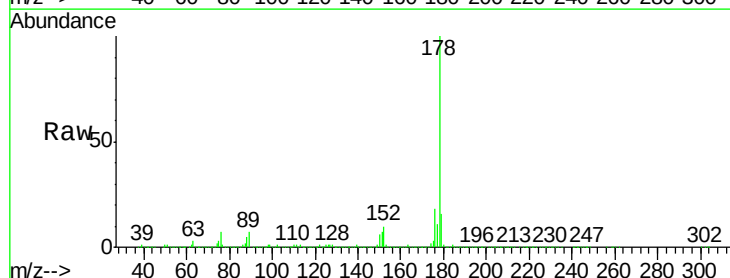
Tgt Ion:178 Resp: 2939137

Ion Ratio Lower Upper

178 100

179 15.5 12.5 18.7

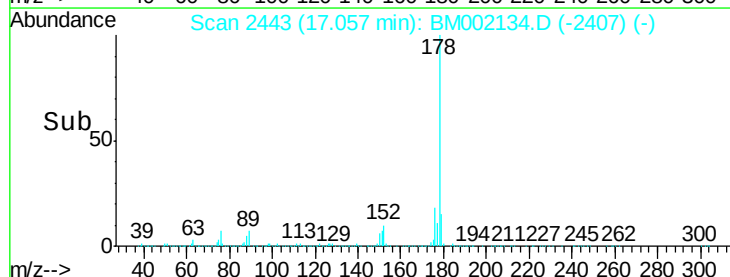
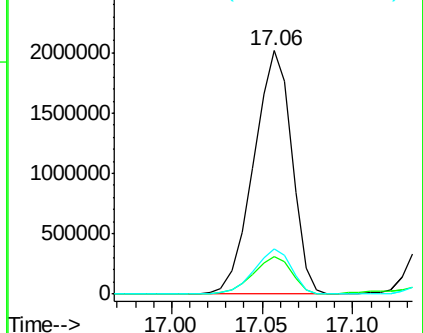
176 18.5 14.2 21.4

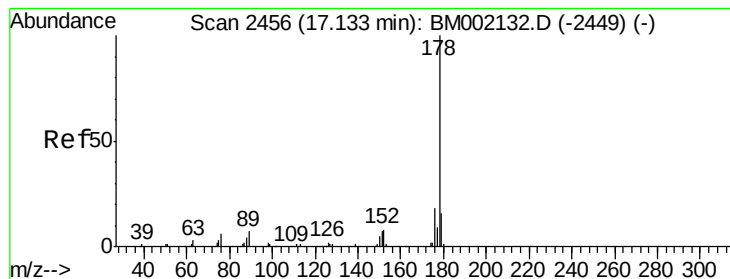


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#72

Anthracene

Concen: 21.39 ng/ul

RT: 17.14 min Scan# 2458

Delta R.T. 0.01 min

Lab File: BM002134.D

Acq: 30 Jul 2015 13:37

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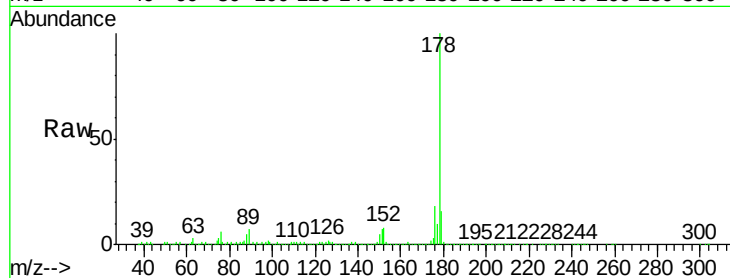
Tgt Ion:178 Resp: 782226

Ion Ratio Lower Upper

178 100

179 15.6 12.1 18.1

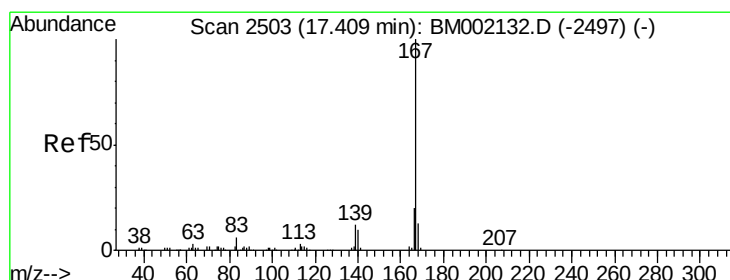
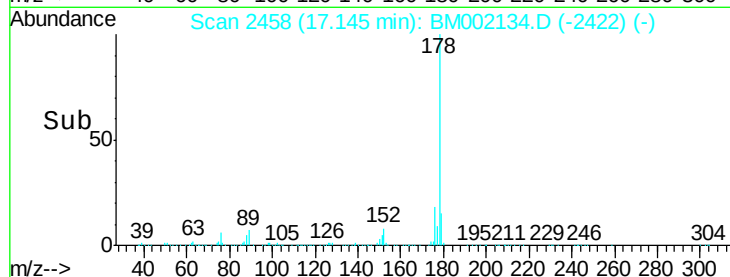
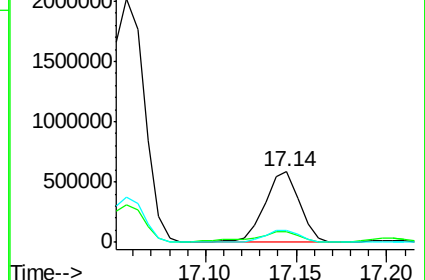
176 17.9 14.1 21.1



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



#75

Carbazole

Concen: 9.34 ng/ul

RT: 17.42 min Scan# 2504

Delta R.T. 0.01 min

Lab File: BM002134.D

Acq: 30 Jul 2015 13:37

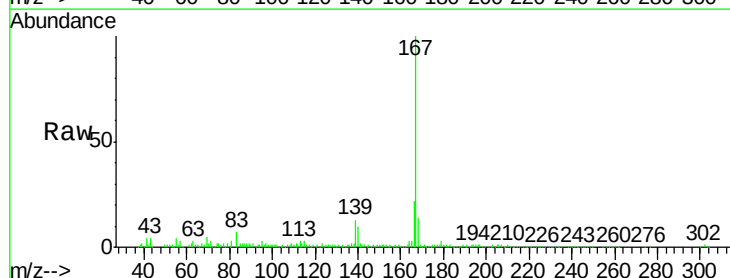
Tgt Ion:167 Resp: 291834

Ion Ratio Lower Upper

167 100

166 21.9 16.2 24.4

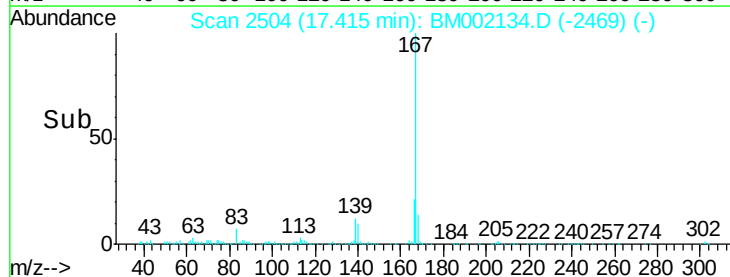
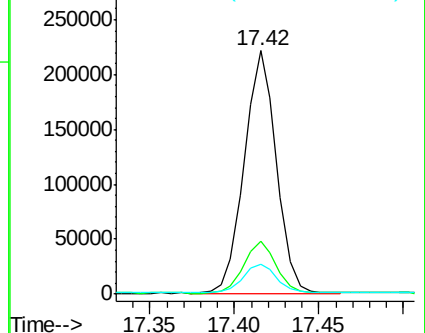
139 12.5 9.6 14.4

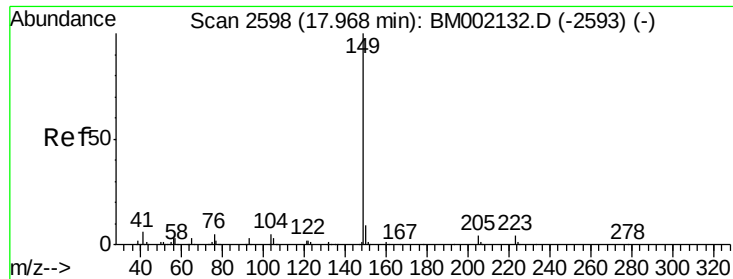


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E

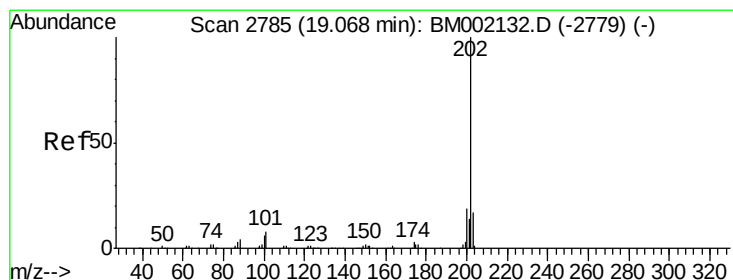
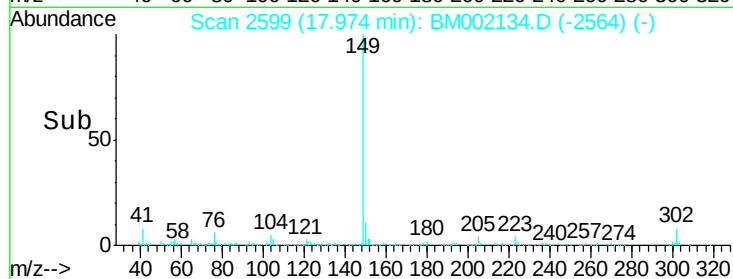
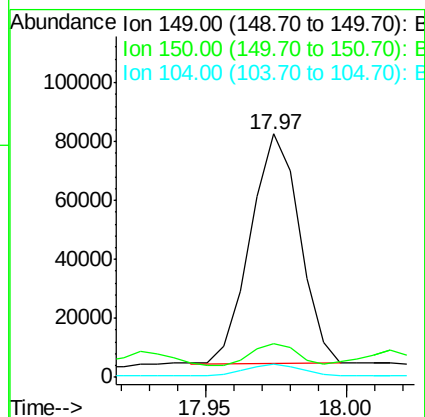
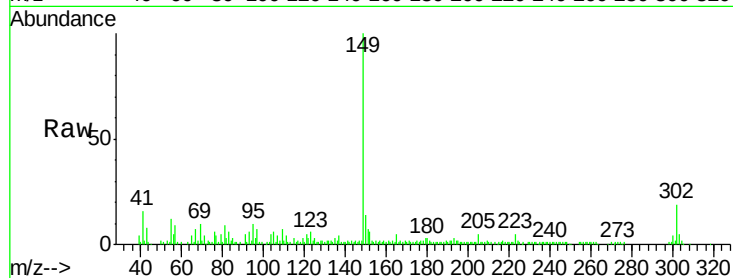




#76
Di-n-butylphthalate
Concen: 2.53 ng/ul
RT: 17.97 min Scan# 2599
Delta R.T. 0.01 min
Lab File: BM002134.D
Acq: 30 Jul 2015 13:37

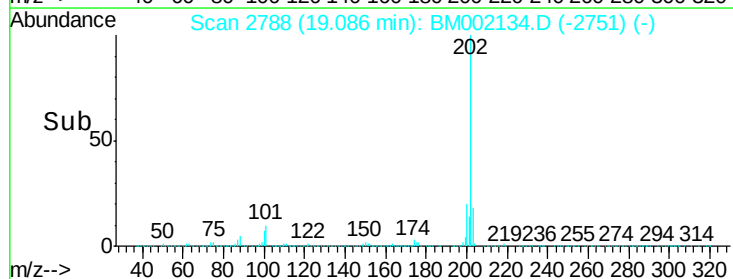
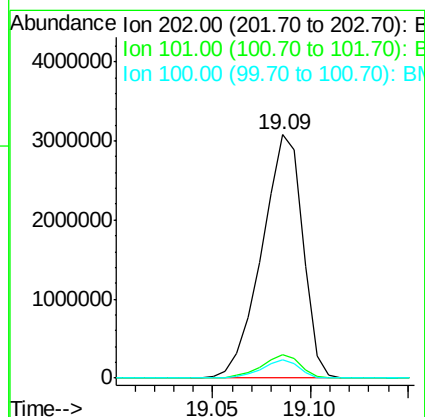
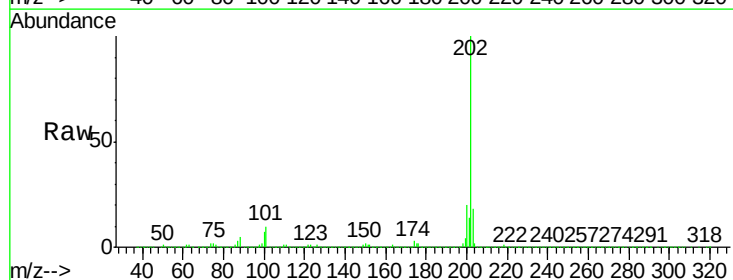
Instrument :
BNA_M
ClientSampleId :
C02K6RE

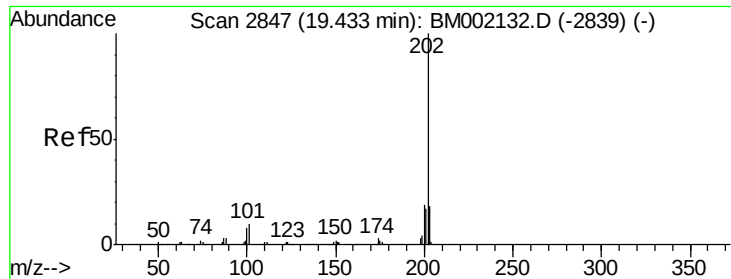
Tgt Ion:149 Resp: 94399
Ion Ratio Lower Upper
149 100
150 13.7 7.0 10.4#
104 5.3 4.2 6.2



#77
Fluoranthene
Concen: 108.17 ng/ul
RT: 19.09 min Scan# 2788
Delta R.T. 0.02 min
Lab File: BM002134.D
Acq: 30 Jul 2015 13:37

Tgt Ion:202 Resp: 4468937
Ion Ratio Lower Upper
202 100
101 9.6 6.2 9.4#
100 7.4 5.2 7.8

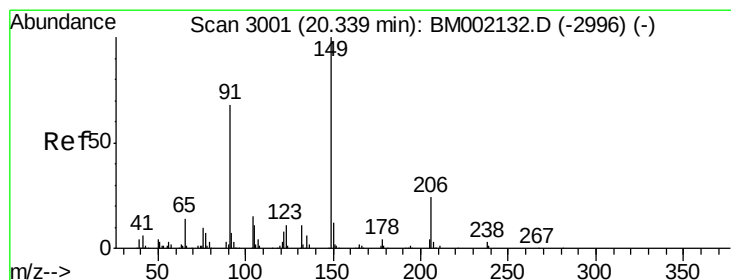
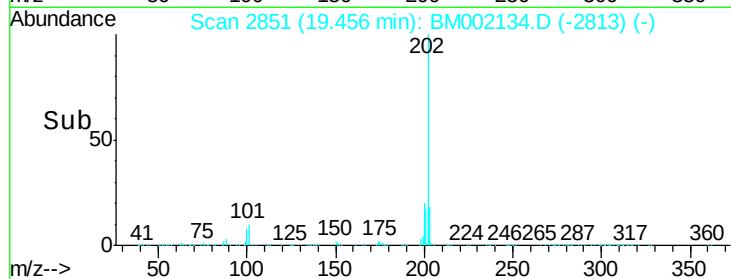
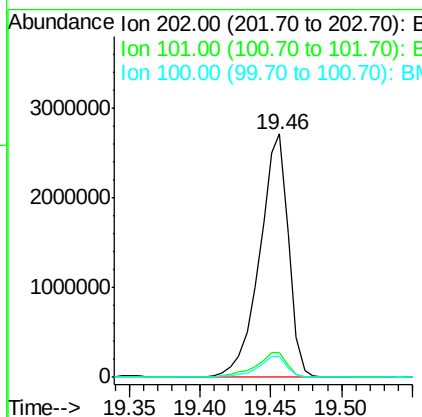
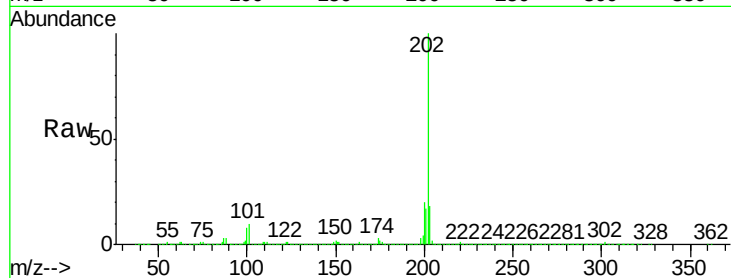




#80
 Pyrene
 Concen: 90.18 ng/ul
 RT: 19.46 min Scan# 2851
 Delta R.T. 0.02 min
 Lab File: BM002134.D
 Acq: 30 Jul 2015 13:37

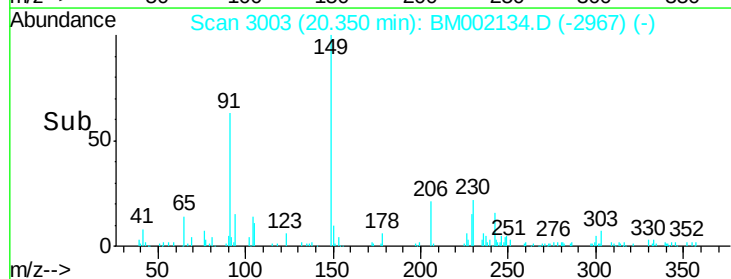
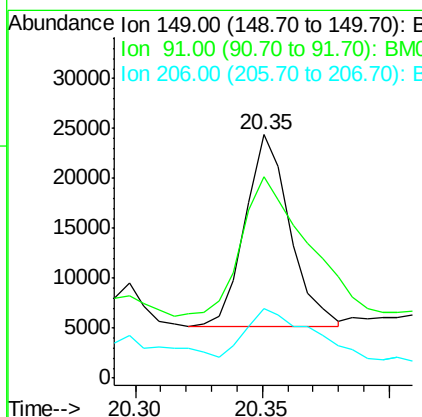
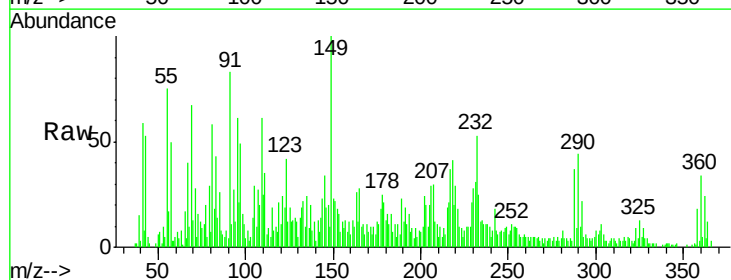
Instrument :
 BNA_M
 ClientSampleId :
 C02K6RE

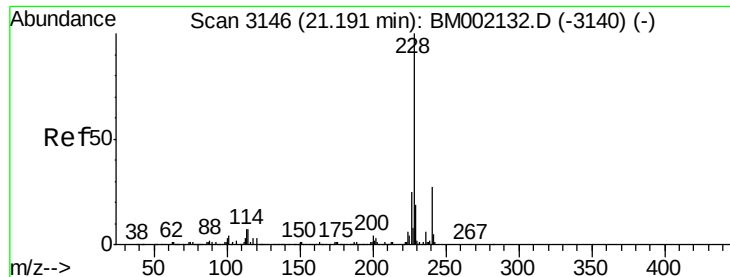
Tgt Ion:202 Resp: 3870420
 Ion Ratio Lower Upper
 202 100
 101 10.1 7.4 11.2
 100 8.5 6.3 9.5



#81
 Butylbenzylphthalate
 Concen: 1.46 ng/ul
 RT: 20.35 min Scan# 3003
 Delta R.T. 0.01 min
 Lab File: BM002134.D
 Acq: 30 Jul 2015 13:37

Tgt Ion:149 Resp: 23985
 Ion Ratio Lower Upper
 149 100
 91 82.7 52.4 78.6#
 206 28.5 19.9 29.9





#83

Benzo(a)anthracene

Concen: 49.53 ng/ul

RT: 21.21 min Scan# 3149

Delta R.T. 0.02 min

Lab File: BM002134.D

Acq: 30 Jul 2015 13:37

Instrument :

BNA_M

ClientSampleId :

C02K6RE

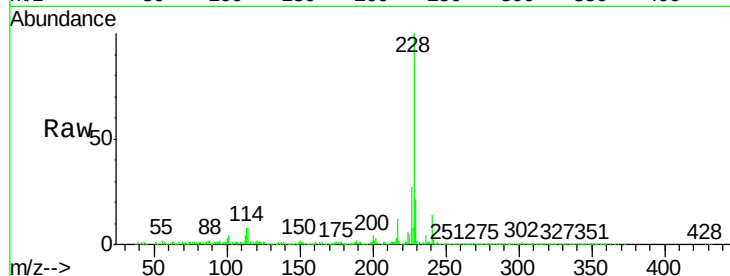
Tgt Ion:228 Resp: 2165438

Ion Ratio Lower Upper

228 100

229 20.6 15.4 23.2

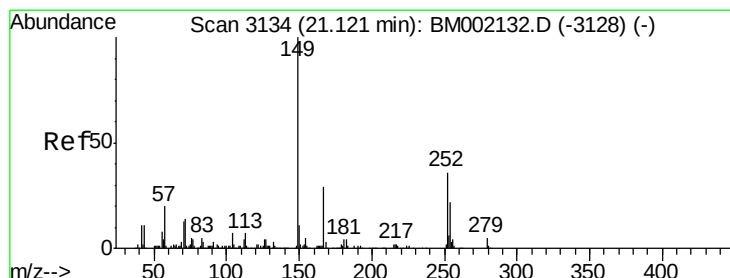
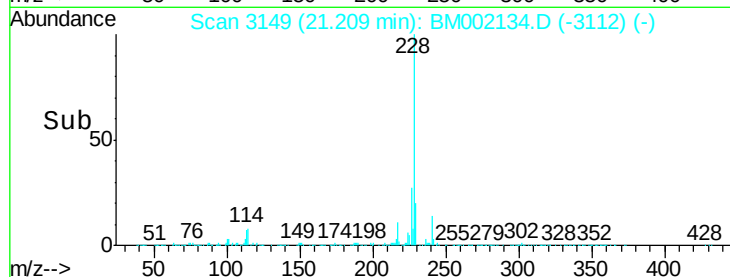
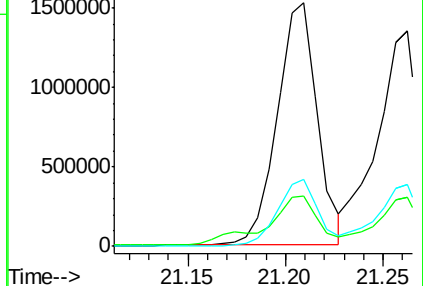
226 27.3 20.5 30.7



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

Bis(2-ethylhexyl)phthalate

Concen: 14.12 ng/ul

RT: 21.13 min Scan# 3135

Delta R.T. 0.01 min

Lab File: BM002134.D

Acq: 30 Jul 2015 13:37

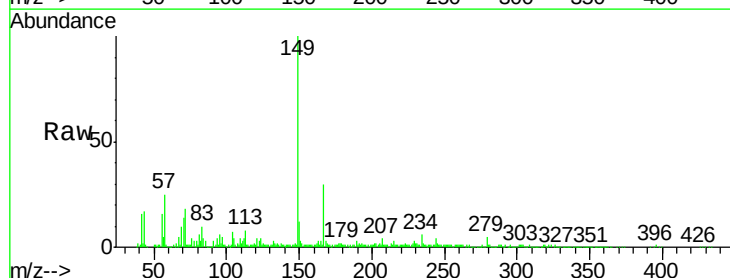
Tgt Ion:149 Resp: 354369

Ion Ratio Lower Upper

149 100

167 29.6 23.6 35.4

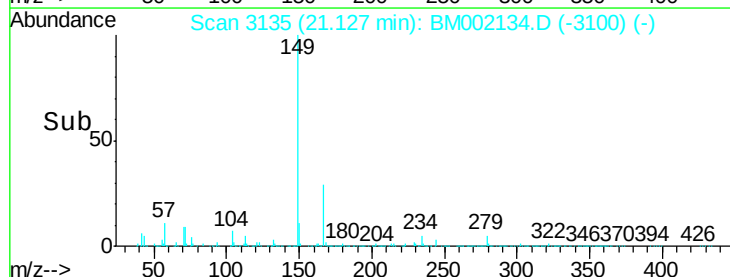
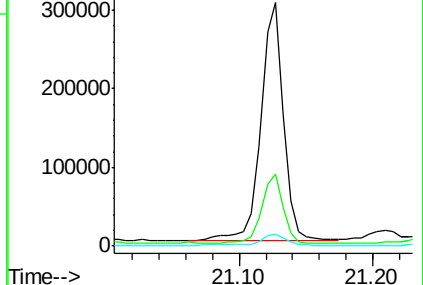
279 5.1 4.2 6.4

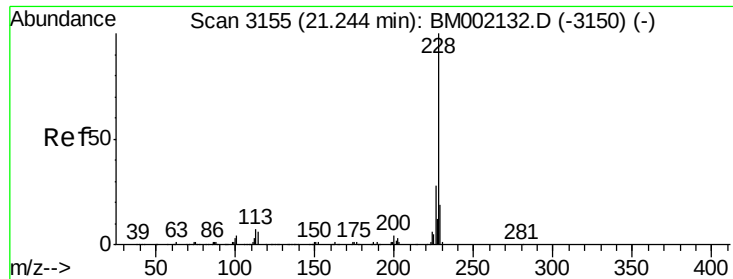


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

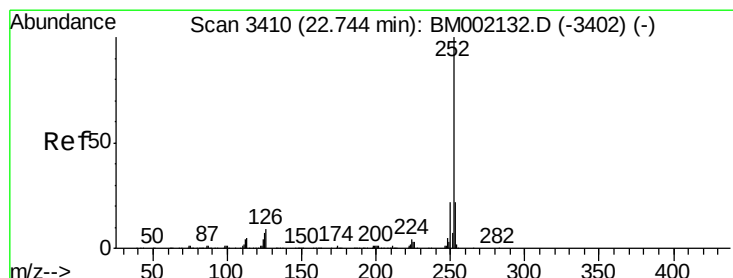
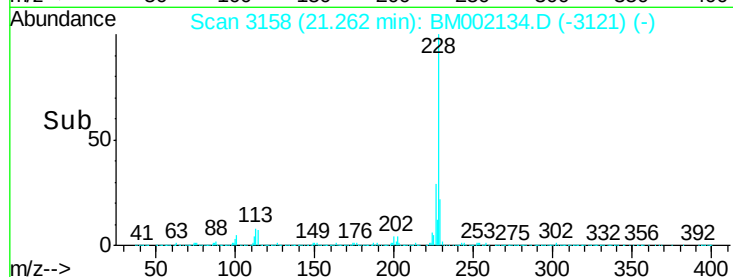
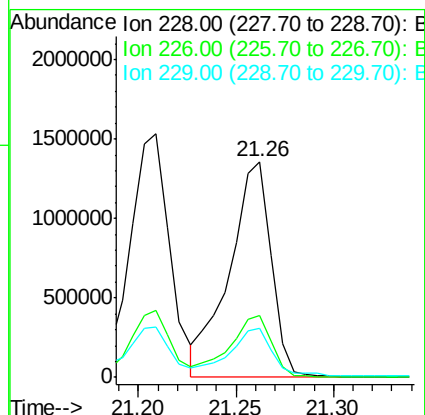
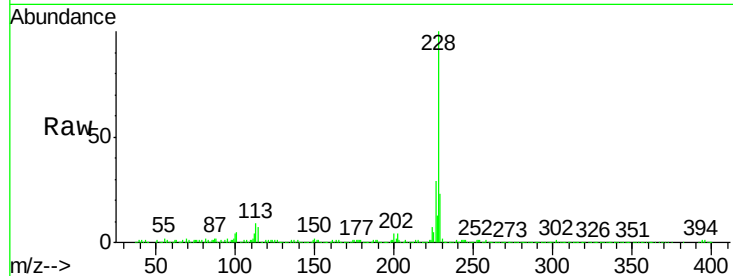




#85
Chrysene
Concen: 49.20 ng/ul
RT: 21.26 min Scan# 3158
Delta R.T. 0.02 min
Lab File: BM002134.D
Acq: 30 Jul 2015 13:37

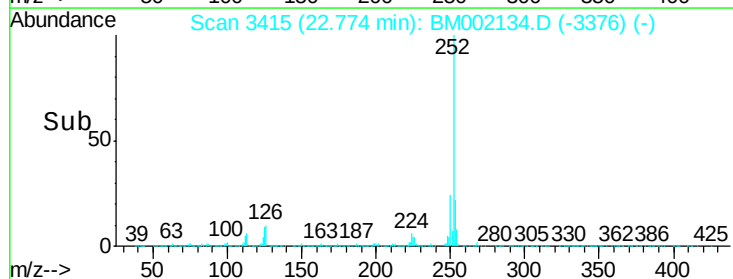
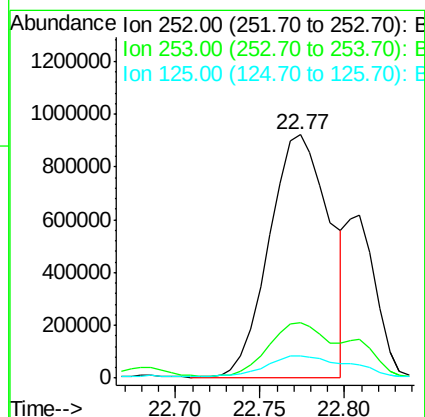
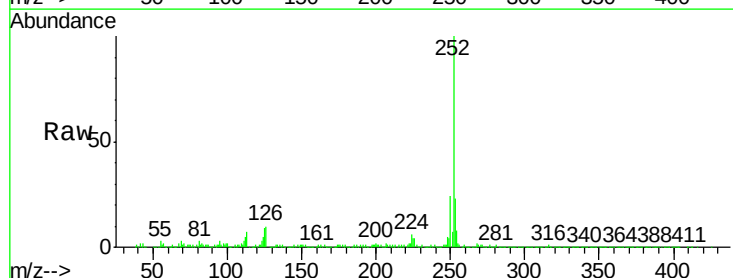
Instrument :
BNA_M
ClientSampleId :
C02K6RE

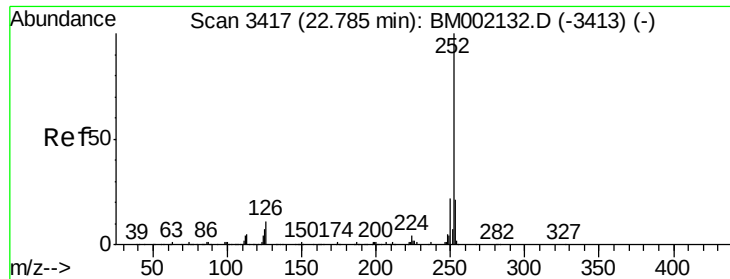
Tgt Ion:228 Resp: 2012517
Ion Ratio Lower Upper
228 100
226 28.9 22.3 33.5
229 22.8 15.5 23.3



#88
Benzo(b)fluoranthene
Concen: 53.55 ng/ul
RT: 22.77 min Scan# 3415
Delta R.T. 0.03 min
Lab File: BM002134.D
Acq: 30 Jul 2015 13:37

Tgt Ion:252 Resp: 2269784
Ion Ratio Lower Upper
252 100
253 22.9 16.9 25.3
125 9.3 6.2 9.2#





#89

Benzo(k)fluoranthene

Concen: 12.83 ng/ul

RT: 22.77 min Scan# 3415

Delta R.T. -0.01 min

Lab File: BM002134.D

Acq: 30 Jul 2015 13:37

Instrument :

BNA_M

ClientSampleId :

C02K6RE

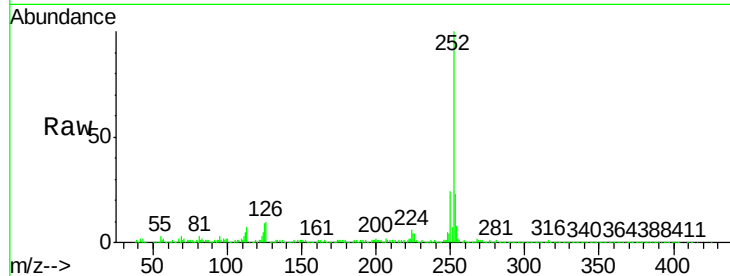
Tgt Ion:252 Resp: 524600

Ion Ratio Lower Upper

252 100

253 22.9 17.4 26.0

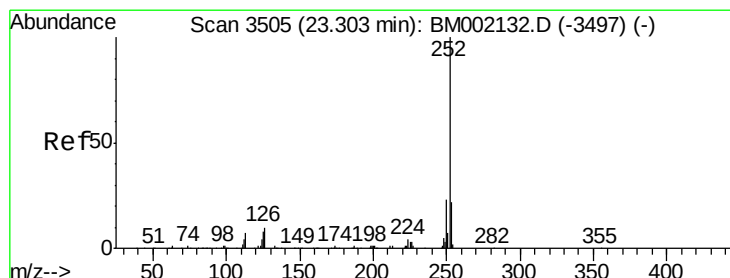
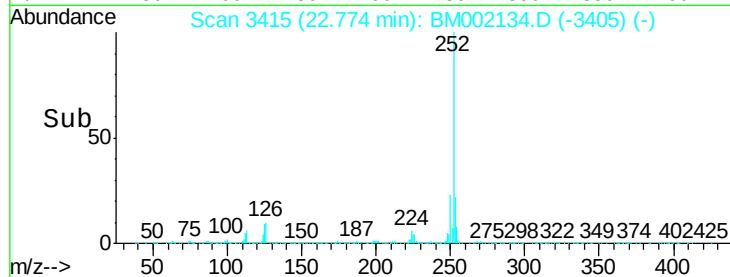
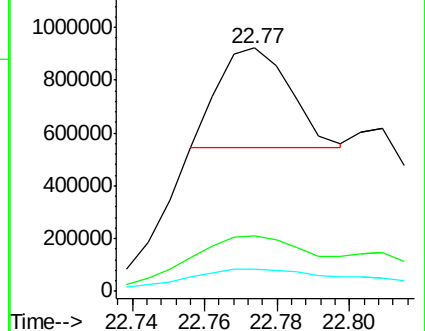
125 9.3 6.2 9.4



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



#91

Benzo(a)pyrene

Concen: 38.18 ng/ul

RT: 23.34 min Scan# 3511

Delta R.T. 0.04 min

Lab File: BM002134.D

Acq: 30 Jul 2015 13:37

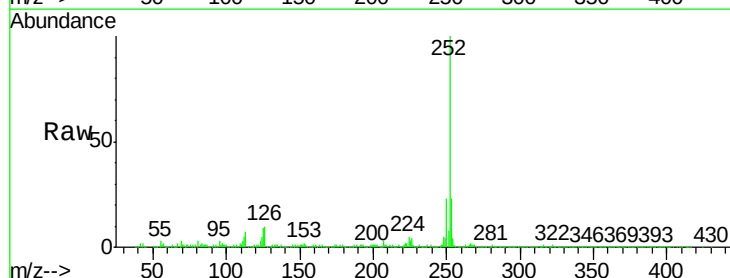
Tgt Ion:252 Resp: 1562243

Ion Ratio Lower Upper

252 100

253 22.6 17.2 25.8

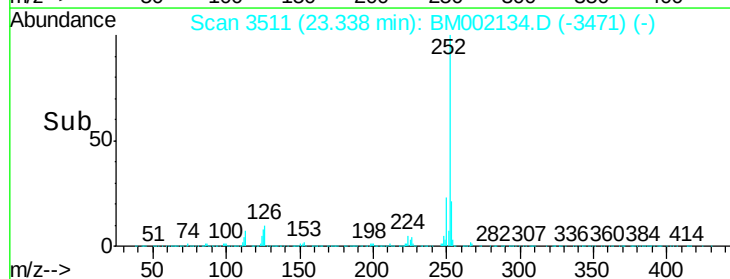
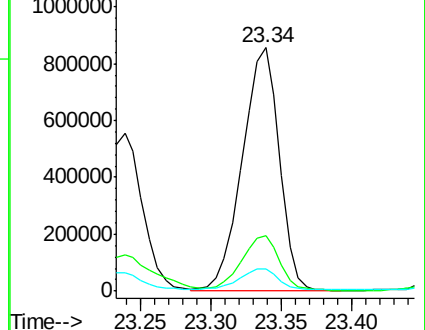
125 9.1 6.6 10.0

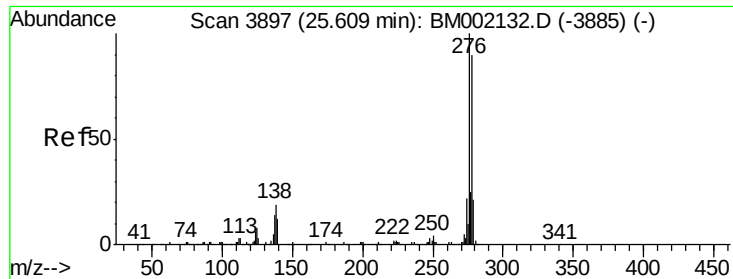


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#92

Indeno(1,2,3-cd)pyrene

Concen: 19.91 ng/ul

RT: 25.64 min Scan# 3903

Delta R.T. 0.04 min

Lab File: BM002134.D

Acq: 30 Jul 2015 13:37

Instrument :

BNA_M

ClientSampleId :

C02K6RE

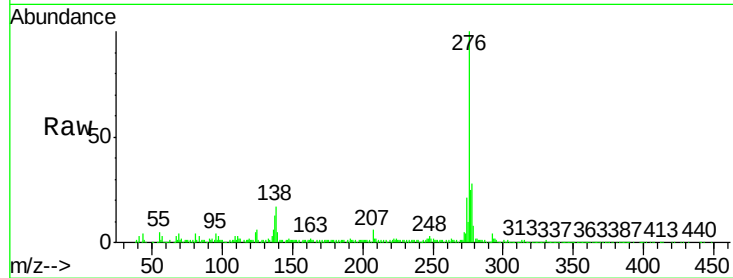
Tgt Ion:276 Resp: 938743

Ion Ratio Lower Upper

276 100

138 16.8 16.2 24.2

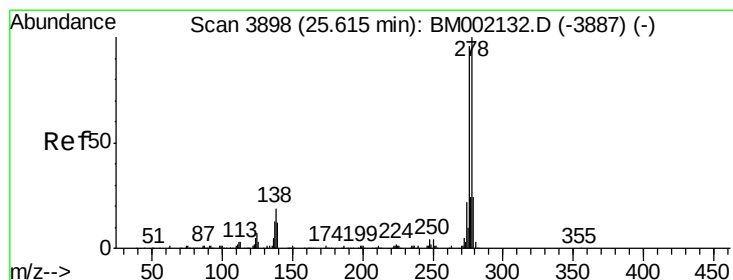
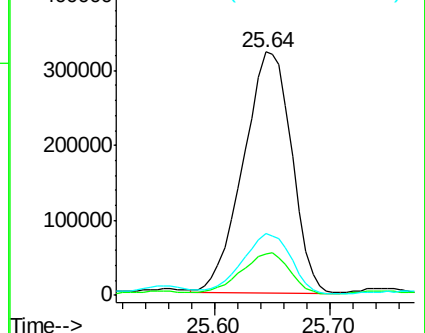
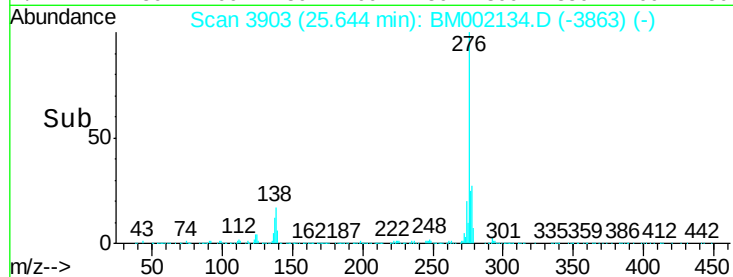
277 25.4 19.8 29.8



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



#93

Dibenzo(a,h)anthracene

Concen: 6.93 ng/ul

RT: 25.64 min Scan# 3903

Delta R.T. 0.03 min

Lab File: BM002134.D

Acq: 30 Jul 2015 13:37

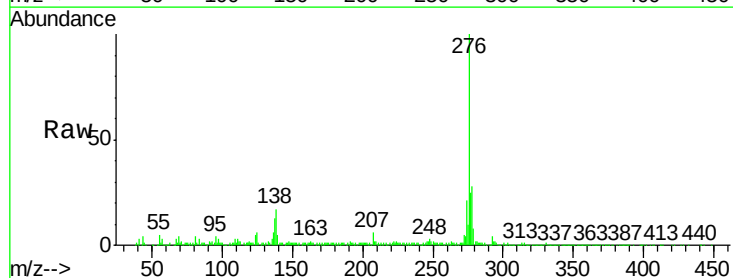
Tgt Ion:278 Resp: 279783

Ion Ratio Lower Upper

278 100

139 17.2 10.6 16.0#

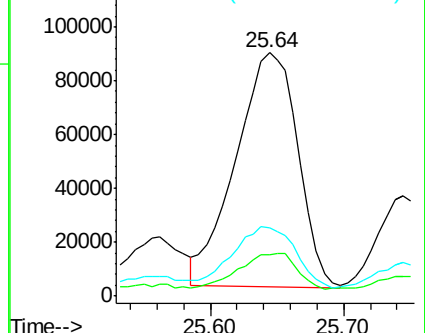
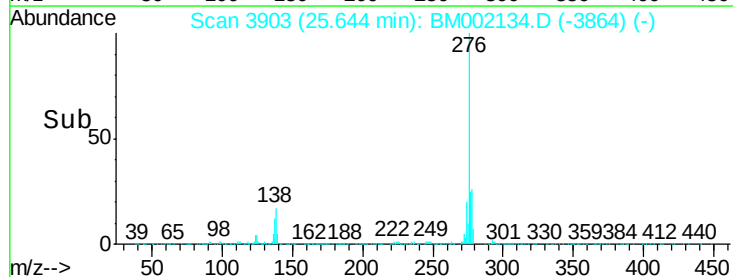
279 28.2 18.5 27.7#

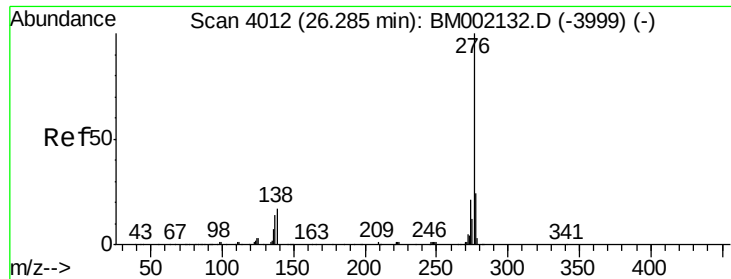


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#94

Benzo(g,h,i)perylene

Concen: 20.69 ng/ul

RT: 26.34 min Scan# 4021

Delta R.T. 0.05 min

Lab File: BM002134.D

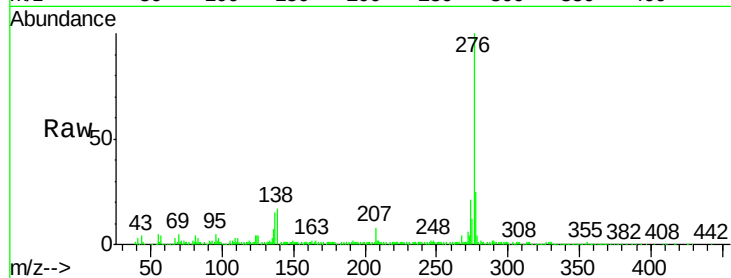
Acq: 30 Jul 2015 13:37

Instrument :

BNA_M

ClientSampleId :

C02K6RE



Tgt Ion:	276	Resp:	817707
Ion	Ratio	Lower	Upper
276	100		
138	17.2	13.8	20.6
277	25.3	18.2	27.2

