

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121216\
 Data File : BG025137.D
 Acq On : 13 Dec 2016 5:57
 Operator : UM/SJ
 Sample : H5992-11
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 P035-SS002-1824-03

Quant Time: Dec 13 06:40:38 2016
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG113016.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Tue Dec 13 06:23:40 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.24	152	120601	20.00	ng/ul	0.00
18) Naphthalene-d8	11.07	136	493766	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.86	164	361772	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.61	188	654103	20.00	ng/ul	0.00
75) Chrysene-d12	21.91	240	802083	20.00	ng/ul	0.01
83) Perylene-d12	25.31	264	1072	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.59	96	12383	5.30	ng/uL	0.00
5) Phenol-d5	7.39	99	283664	27.26	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.55	67	180312	28.01	ng/ul	0.00
9) 2-Chlorophenol-d4	7.77	132	194265	26.70	ng/ul	0.00
13) 4-Methylphenol-d8	8.95	113	235241	27.06	ng/ul	0.00
19) Nitrobenzene-d5	9.42	128	105920	30.29	ng/ul	0.00
22) 2-Nitrophenol-d4	10.15	143	124048	28.46	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.69	165	243973	29.10	ng/ul	0.00
29) 4-Chloroaniline-d4	11.21	131	84895	10.30	ng/ul	0.00
43) Dimethylphthalate-d6	14.25	166	719960	28.93	ng/ul	0.00
46) Acenaphthylene-d8	14.56	160	868239	31.85	ng/ul	0.00
51) 4-Nitrophenol-d4	15.07	143	113058	26.44	ng/ul	0.01
57) Fluorene-d10	15.85	176	654839	27.96	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.97	200	115235	28.49	ng/ul	0.00
70) Anthracene-d10	17.71	188	944642	34.22	ng/ul	0.00
76) Pyrene-d10	19.98	212	1063977	32.21	ng/ul	0.00
87) Benzo(a)pyrene-d12	25.04	264	3209	73.88	ng/ul	-0.04

Target Compounds

						Qvalue
6) Phenol	7.42	94	51184	4.79	ng/ul	95
28) Naphthalene	11.12	128	820608	35.75	ng/ul	96
34) 2-Methylnaphthalene	12.71	142	433746	23.95	ng/ul	100
40) 1,1'-Biphenyl	13.70	154	178345	8.13	ng/ul	99
44) Dimethylphthalate	14.30	163	109613	4.48	ng/ul#	95
49) Acenaphthene	14.93	153	537077	29.59	ng/ul	99
53) Dibenzofuran	15.26	168	652396	22.72	ng/ul	100
58) Fluorene	15.91	166	415522	17.78	ng/ul	95
60) 4-Nitroaniline	15.91	138	6604	1.20	ng/ul#	8
64) N-Nitrosodiphenylamine	16.10	169	54557	3.24	ng/ul	90
69) Phenanthrene	17.65	178	1746302	55.94	ng/ul	97
71) Anthracene	17.74	178	495131	15.43	ng/ul	98
72) Carbazole	18.01	167	194606	7.27	ng/ul	97
73) Di-n-butylphthalate	18.53	149	88365	2.61	ng/ul#	92
74) Fluoranthene	19.65	202	1498674	40.40	ng/ul	99
77) Pyrene	20.01	202	1324904	34.36	ng/ul	99
80) Benzo(a)anthracene	21.89	228	919945	22.08	ng/ul#	90
81) Bis(2-ethylhexyl)phthalate	21.74	149	624991	30.08	ng/ul#	96
82) Chrysene	21.96	228	1114630	28.60	ng/ul#	87
84) Di-n-octyl phthalate	23.00	149	1209	27.78	ng/ul	100
85) Benzo(b)fluoranthene	24.28	252	859218	16163.85	ng/ul#	89
86) Benzo(k)fluoranthene	24.28	252	1287241	25474.30	ng/ul#	91
88) Benzo(a)pyrene	25.07	252	601780	11774.09	ng/ul#	86

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Response via : Initial Calibration

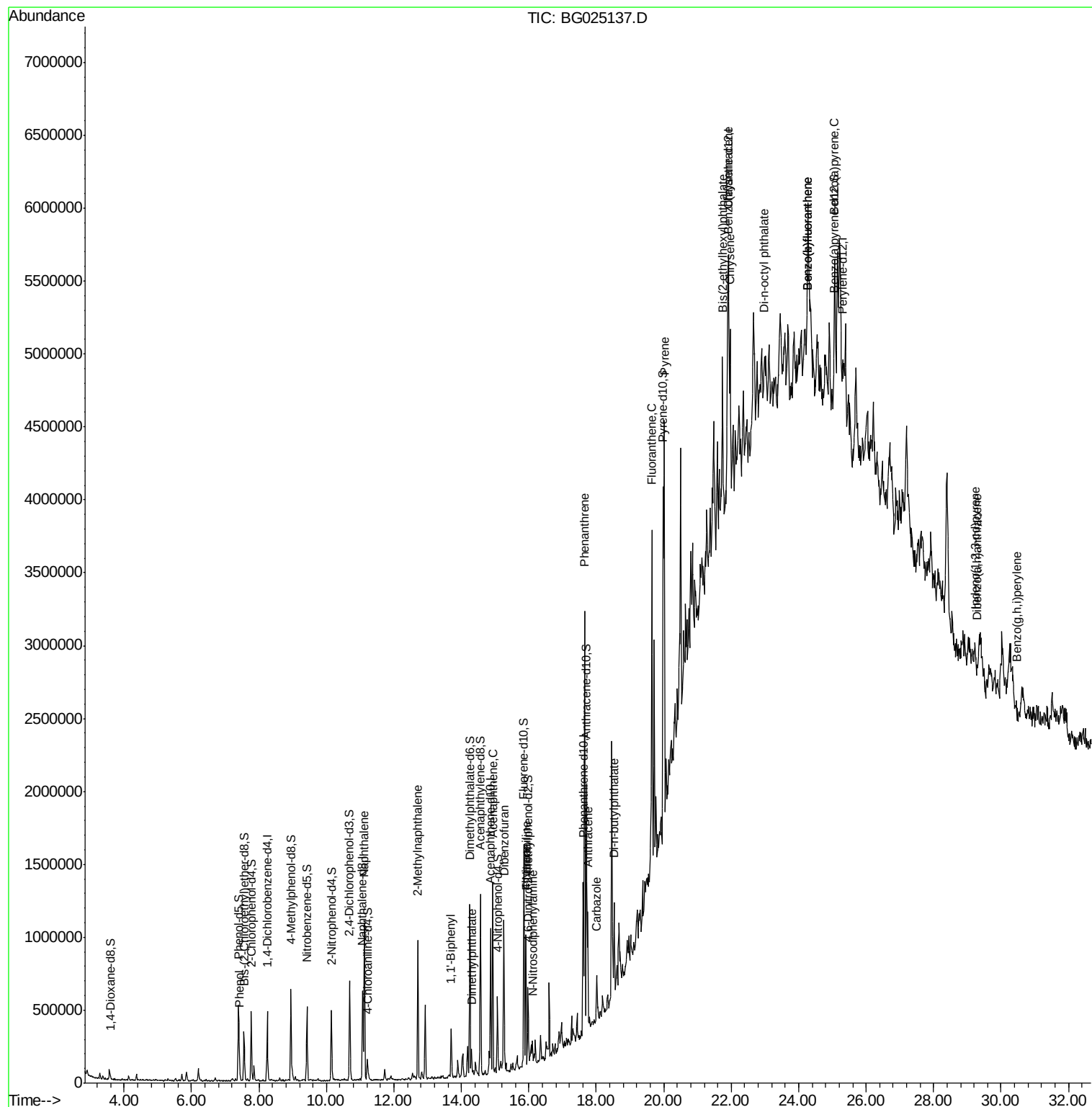
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
89) Indeno(1,2,3-cd)pyrene	29.24	276	9011	141.86	ng/ul#	1
90) Dibenzo(a,h)anthracene	29.29	278	2827	52.82	ng/ul#	1
91) Benzo(g,h,i)perylene	30.46	276	11138	210.11	ng/ul#	1

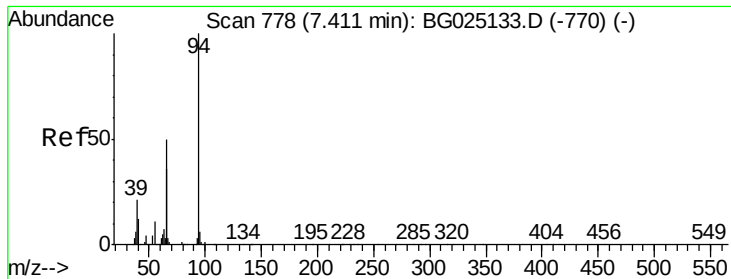
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#6

Phenol

Concen: 4.79 ng/ul

RT: 7.42 min Scan# 780

Delta R.T. 0.01 min

Lab File: BG025137.D

Acq: 13 Dec 2016 5:57

Instrument :

BNA_G

ClientSampleId :

P035-SS002-1824-03

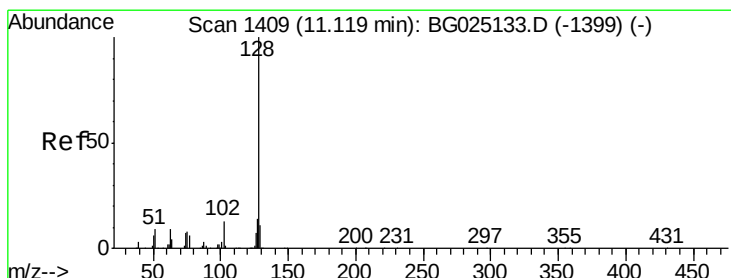
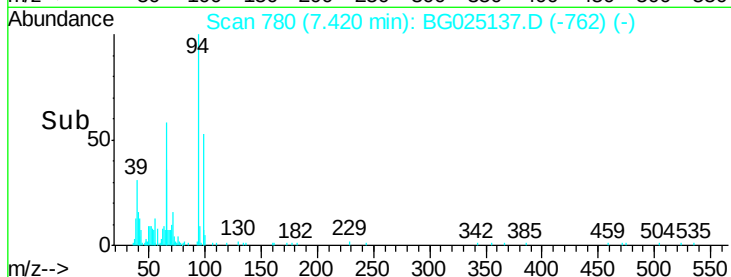
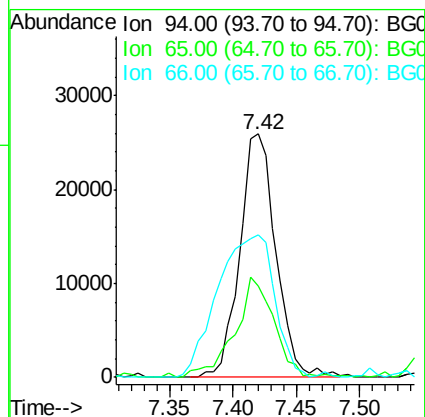
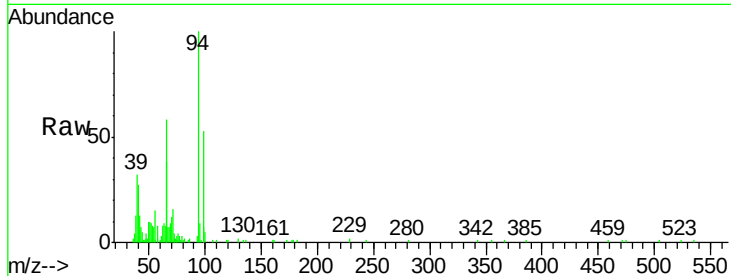
Tgt Ion: 94 Resp: 51184

Ion Ratio Lower Upper

94 100

65 37.6 26.8 40.2

66 58.5 44.4 66.6



#28

Naphthalene

Concen: 35.75 ng/ul

RT: 11.12 min Scan# 1410

Delta R.T. 0.00 min

Lab File: BG025137.D

Acq: 13 Dec 2016 5:57

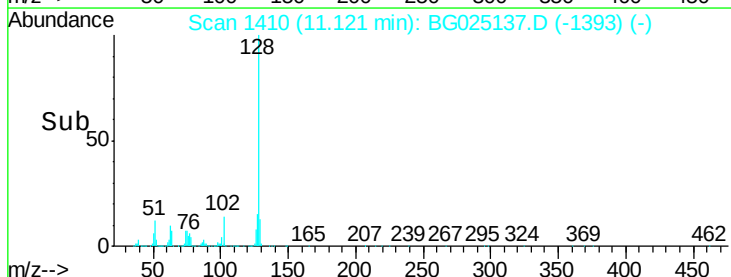
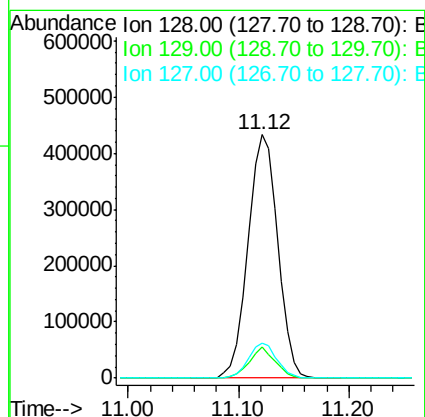
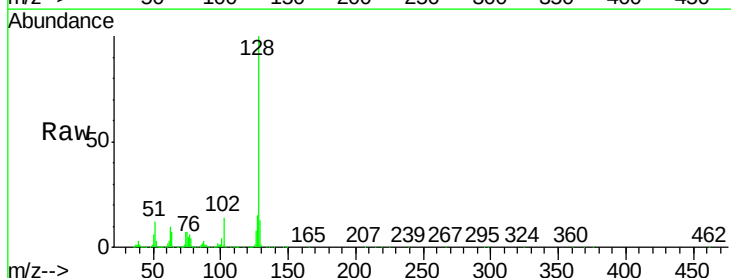
Tgt Ion: 128 Resp: 820608

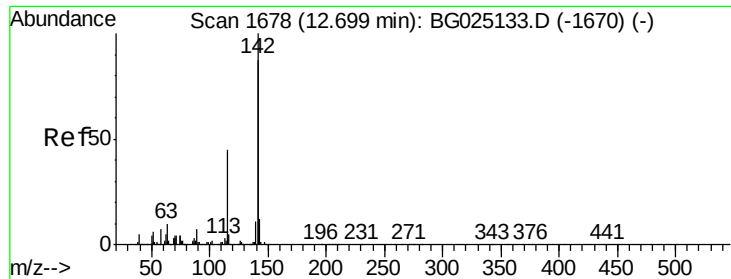
Ion Ratio Lower Upper

128 100

129 12.9 9.4 14.2

127 14.6 10.3 15.5

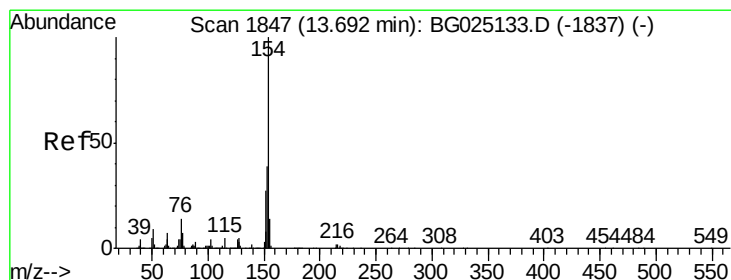
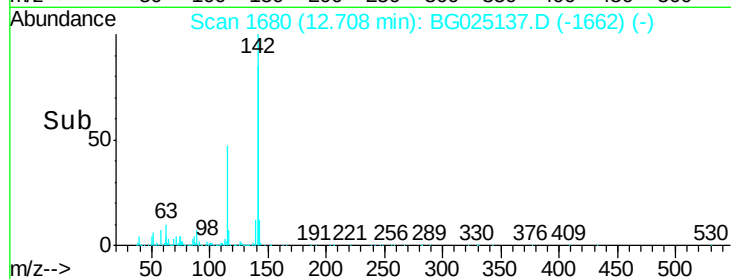
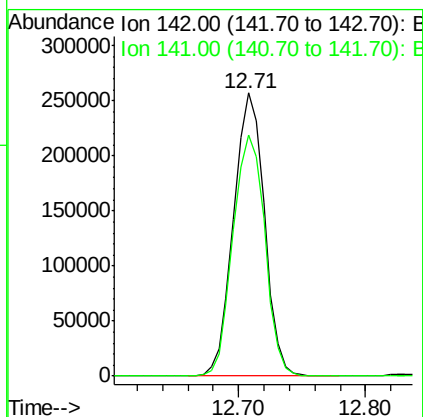
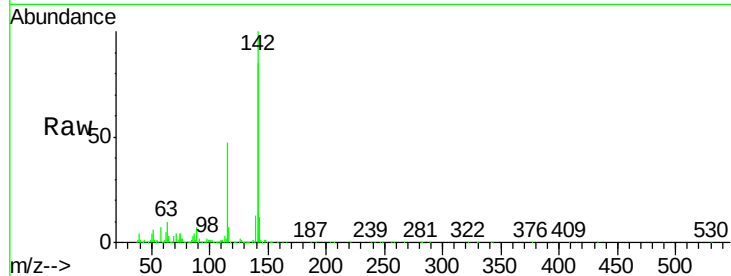




#34
 2-Methylnaphthalene
 Concen: 23.95 ng/ul
 RT: 12.71 min Scan# 1680
 Delta R.T. 0.01 min
 Lab File: BG025137.D
 Acq: 13 Dec 2016 5:57

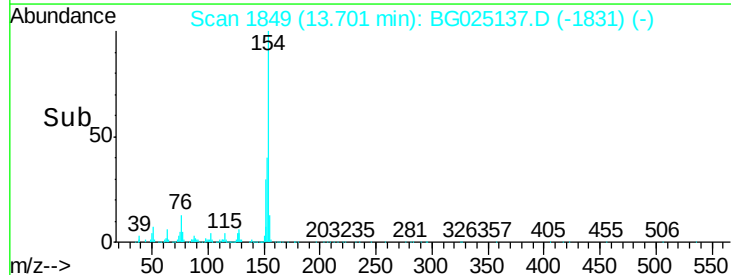
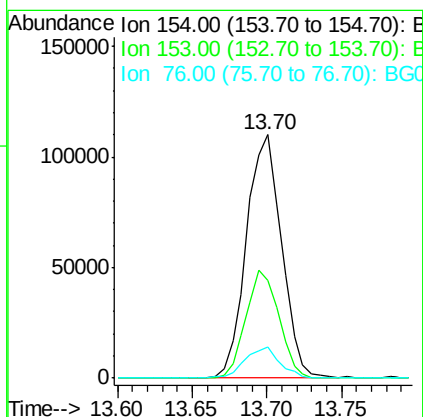
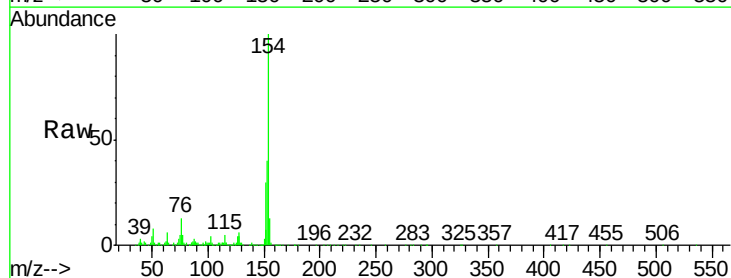
Instrument :
 BNA_G
 ClientSampleId :
 P035-SS002-1824-03

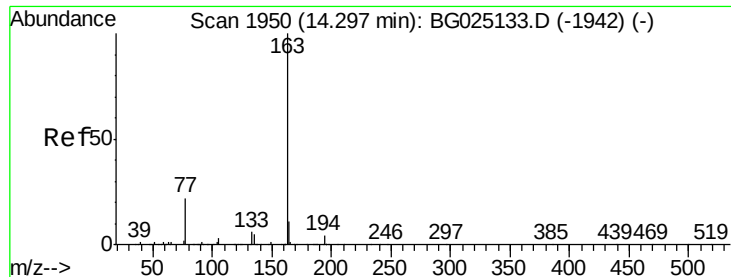
Tgt Ion:142 Resp: 433746
 Ion Ratio Lower Upper
 142 100
 141 85.3 68.6 102.8



#40
 1,1'-Biphenyl
 Concen: 8.13 ng/ul
 RT: 13.70 min Scan# 1849
 Delta R.T. 0.01 min
 Lab File: BG025137.D
 Acq: 13 Dec 2016 5:57

Tgt Ion:154 Resp: 178345
 Ion Ratio Lower Upper
 154 100
 153 40.2 32.2 48.2
 76 12.8 9.6 14.4





#44

Dimethylphthalate

Concen: 4.48 ng/ul

RT: 14.30 min Scan# 1951

Delta R.T. 0.00 min

Lab File: BG025137.D

Acq: 13 Dec 2016 5:57

Instrument :

BNA_G

ClientSampleId :

P035-SS002-1824-03

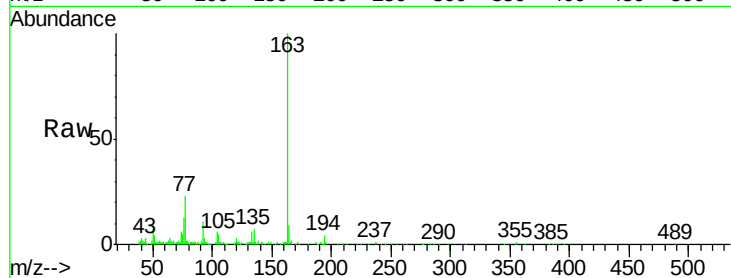
Tgt Ion:163 Resp: 109613

Ion Ratio Lower Upper

163 100

194 4.4 3.4 5.0

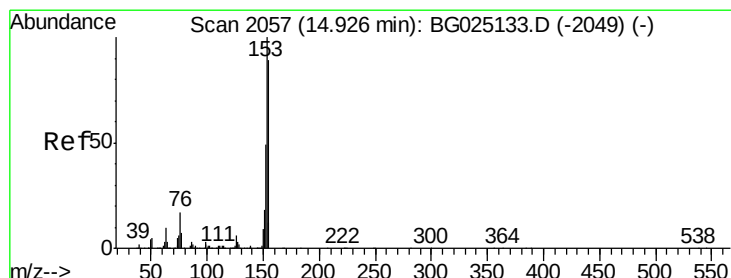
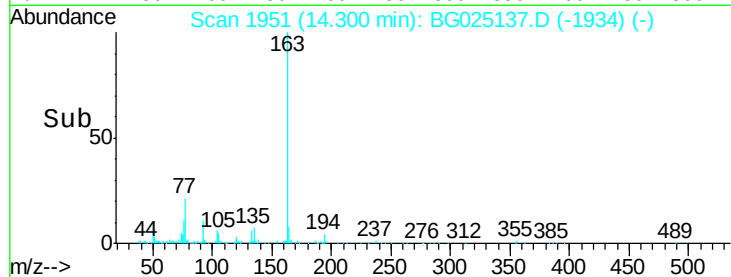
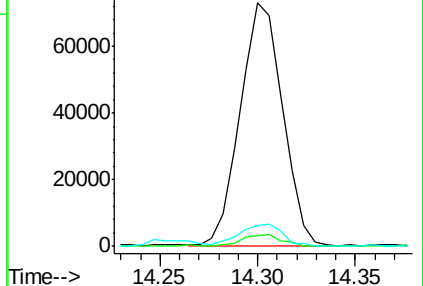
164 8.7 9.0 13.4#



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



#49

Acenaphthene

Concen: 29.59 ng/ul

RT: 14.93 min Scan# 2058

Delta R.T. 0.00 min

Lab File: BG025137.D

Acq: 13 Dec 2016 5:57

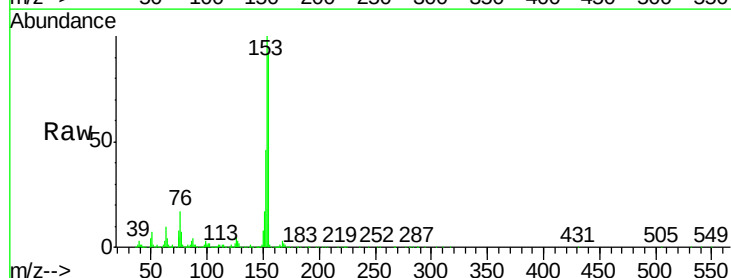
Tgt Ion:153 Resp: 537077

Ion Ratio Lower Upper

153 100

152 46.3 36.5 54.7

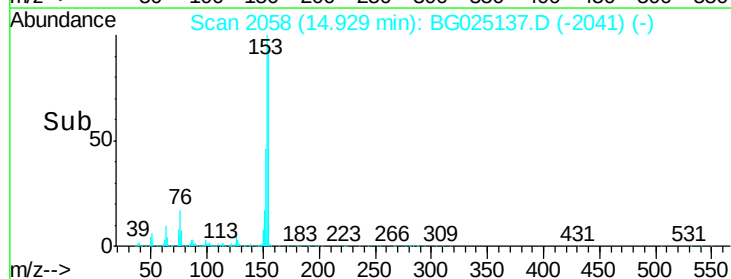
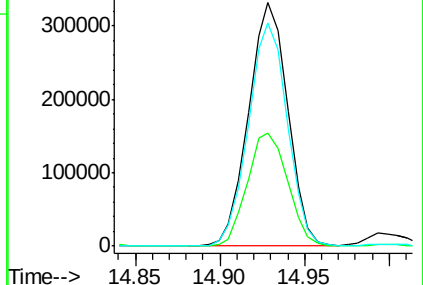
154 91.7 72.3 108.5

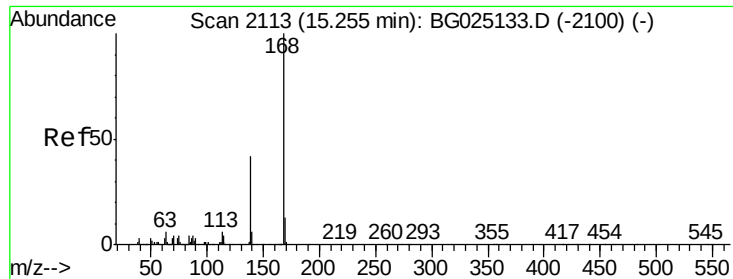


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E





#53

Dibenzenofuran

Concen: 22.72 ng/ul

RT: 15.26 min Scan# 2114

Delta R.T. 0.00 min

Lab File: BG025137.D

Acq: 13 Dec 2016 5:57

Instrument :

BNA_G

ClientSampleId :

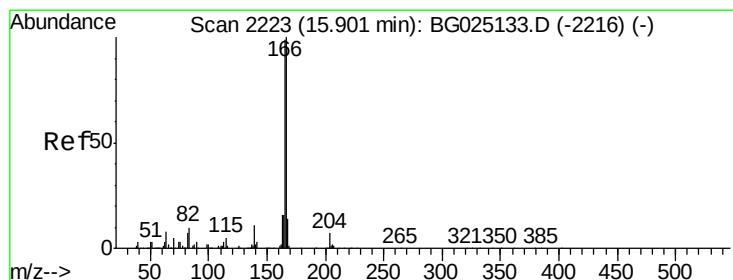
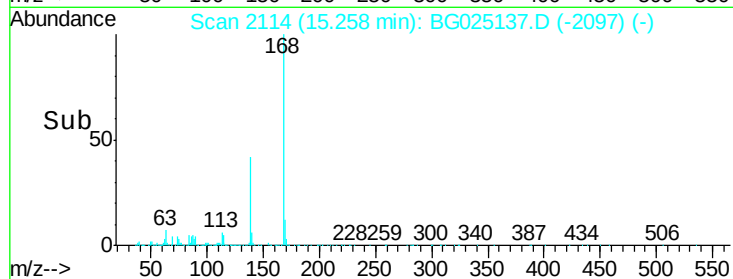
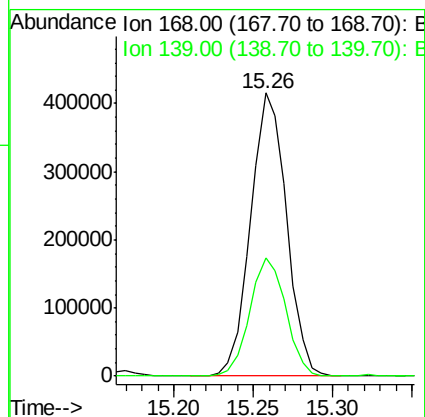
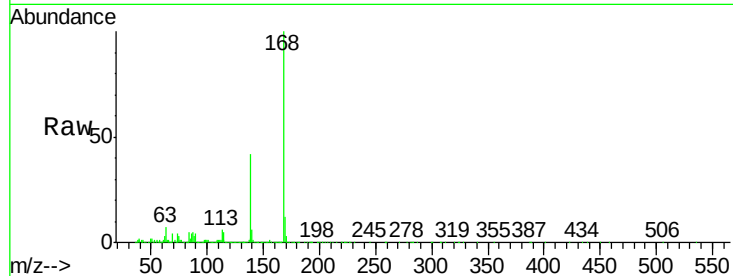
P035-SS002-1824-03

Tgt Ion:168 Resp: 652396

Ion Ratio Lower Upper

168 100

139 42.0 33.8 50.8



#58

Fluorene

Concen: 17.78 ng/ul

RT: 15.91 min Scan# 2225

Delta R.T. 0.01 min

Lab File: BG025137.D

Acq: 13 Dec 2016 5:57

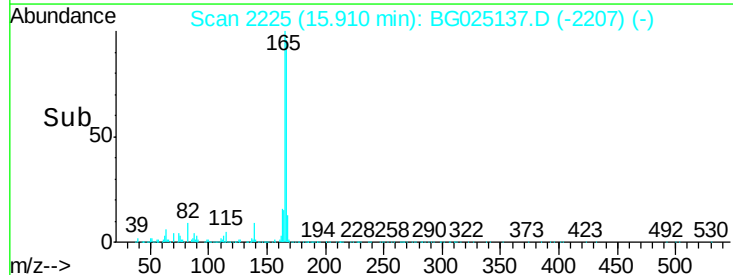
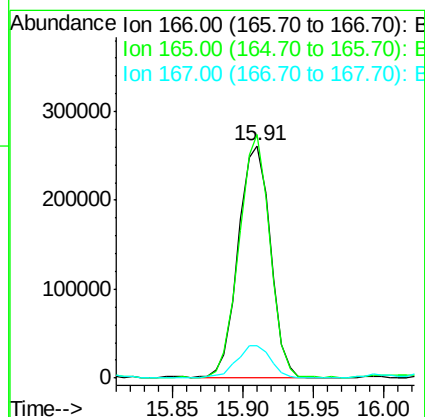
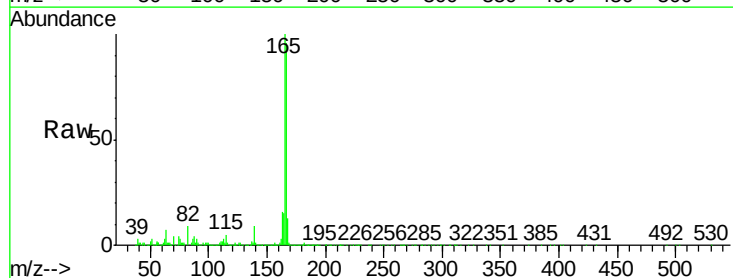
Tgt Ion:166 Resp: 415522

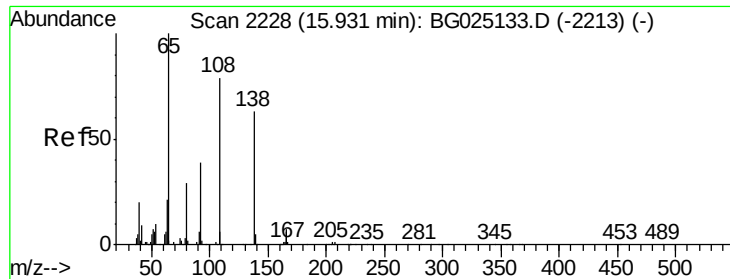
Ion Ratio Lower Upper

166 100

165 104.7 79.7 119.5

167 14.0 11.4 17.2

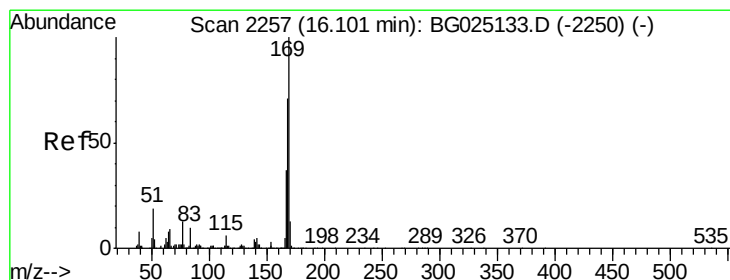
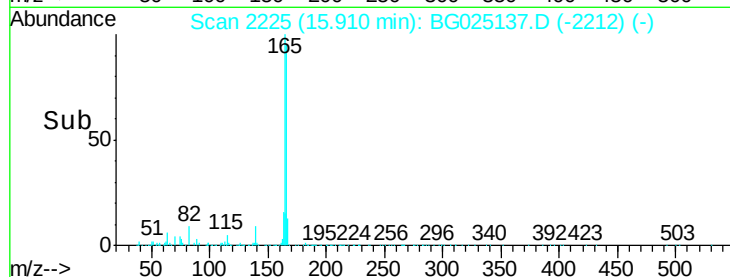
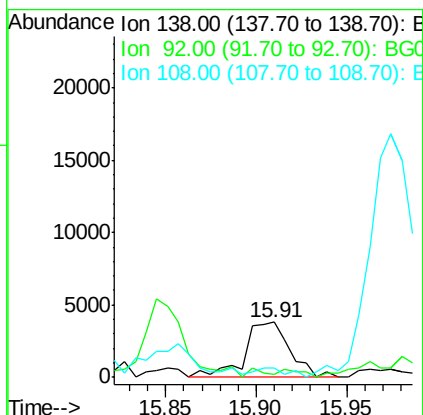
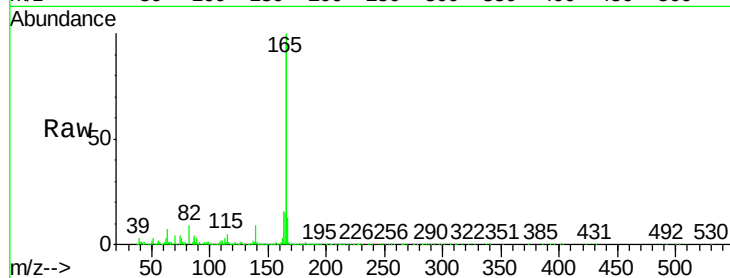




#60
4-Nitroaniline
Concen: 1.20 ng/ul
RT: 15.91 min Scan# 2225
Delta R.T. -0.02 min
Lab File: BG025137.D
Acq: 13 Dec 2016 5:57

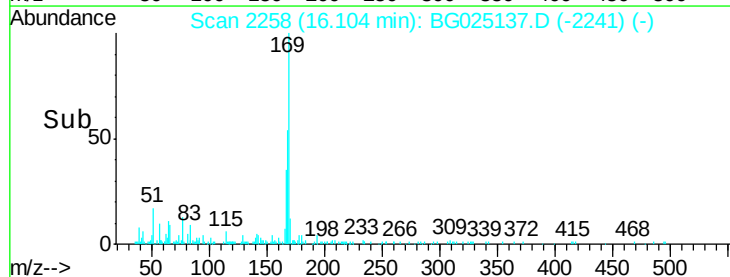
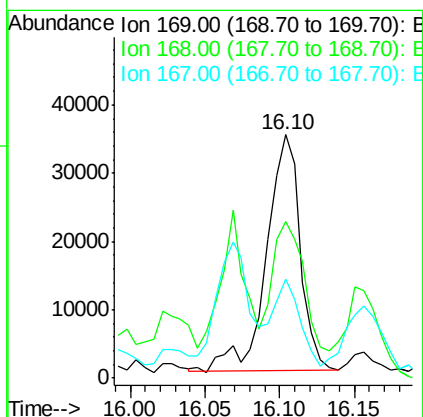
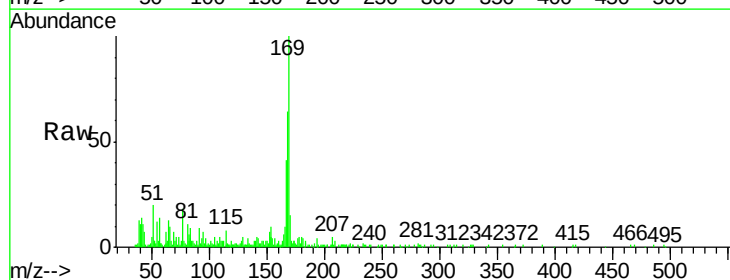
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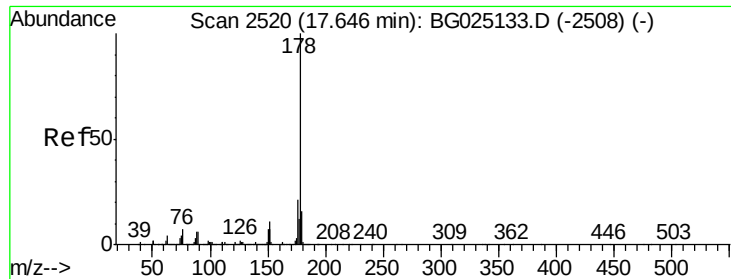
Tgt Ion:138 Resp: 6604
Ion Ratio Lower Upper
138 100
92 4.5 56.9 85.3#
108 16.8 104.9 157.3#



#64
N-Nitrosodiphenylamine
Concen: 3.24 ng/ul
RT: 16.10 min Scan# 2258
Delta R.T. 0.00 min
Lab File: BG025137.D
Acq: 13 Dec 2016 5:57

Tgt Ion:169 Resp: 54557
Ion Ratio Lower Upper
169 100
168 64.4 59.1 88.7
167 40.7 29.7 44.5





#69

Phenanthrene

Concen: 55.94 ng/ul

RT: 17.65 min Scan# 2522

Delta R.T. 0.01 min

Lab File: BG025137.D

Acq: 13 Dec 2016 5:57

Instrument :

BNA_G

ClientSampleId :

P035-SS002-1824-03

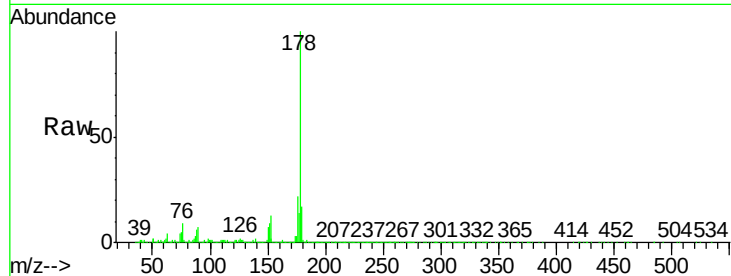
Tgt Ion:178 Resp: 1746302

Ion Ratio Lower Upper

178 100

179 17.4 12.4 18.6

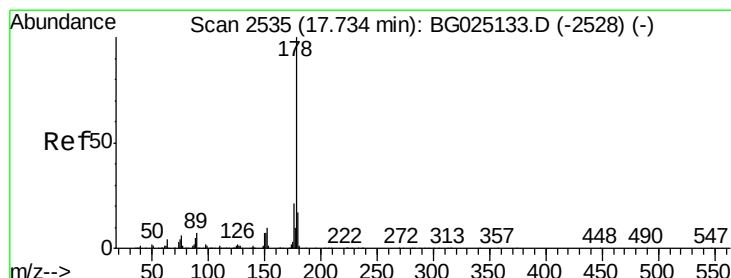
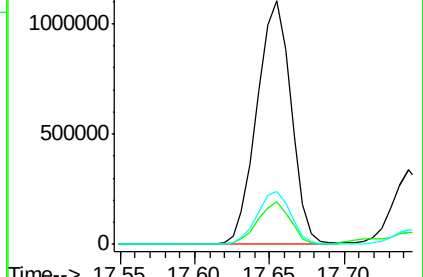
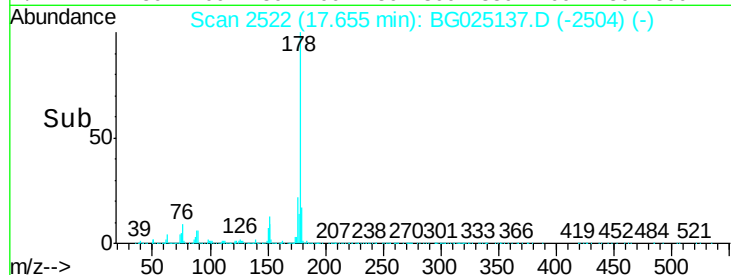
176 21.6 16.5 24.7



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: 15.43 ng/ul

RT: 17.74 min Scan# 2537

Delta R.T. 0.01 min

Lab File: BG025137.D

Acq: 13 Dec 2016 5:57

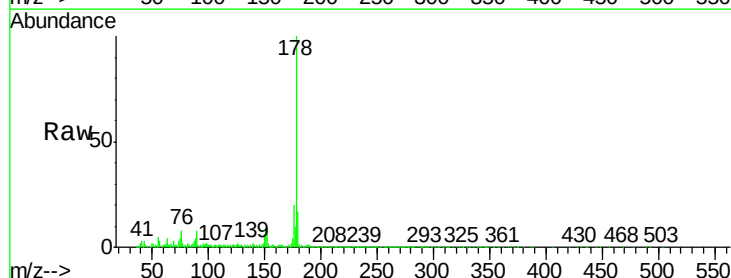
Tgt Ion:178 Resp: 495131

Ion Ratio Lower Upper

178 100

179 16.9 12.6 19.0

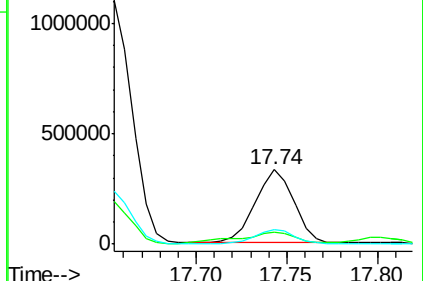
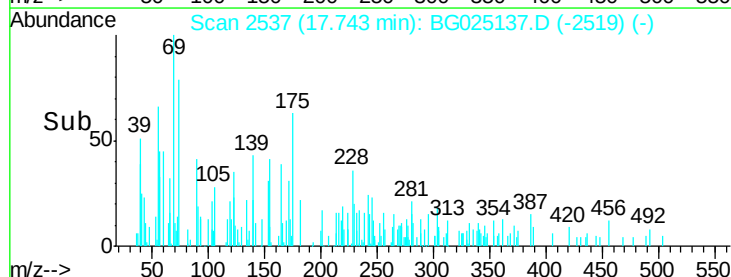
176 20.2 15.9 23.9

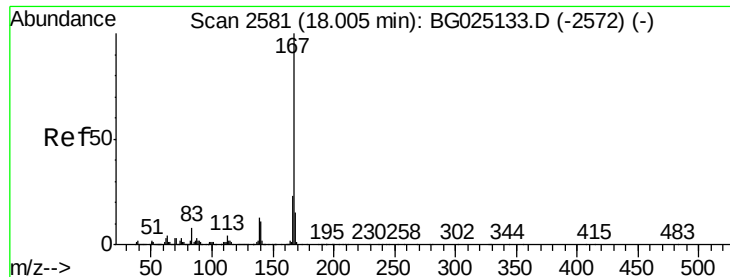


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#72

Carbazole

Concen: 7.27 ng/ul

RT: 18.01 min Scan# 2583

Delta R.T. 0.01 min

Lab File: BG025137.D

Acq: 13 Dec 2016 5:57

Instrument :

BNA_G

ClientSampleId :

P035-SS002-1824-03

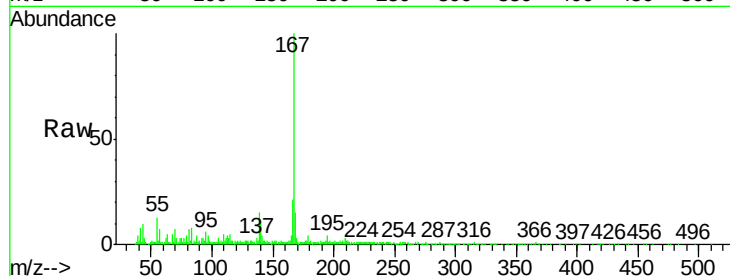
Tgt Ion:167 Resp: 194606

Ion Ratio Lower Upper

167 100

166 21.5 17.9 26.9

139 15.3 10.5 15.7

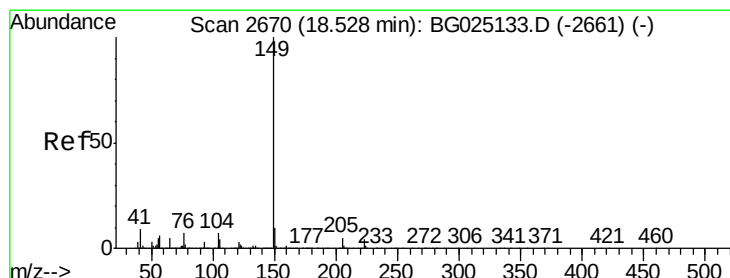
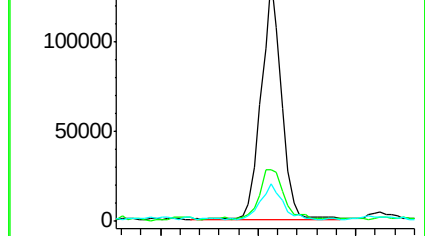
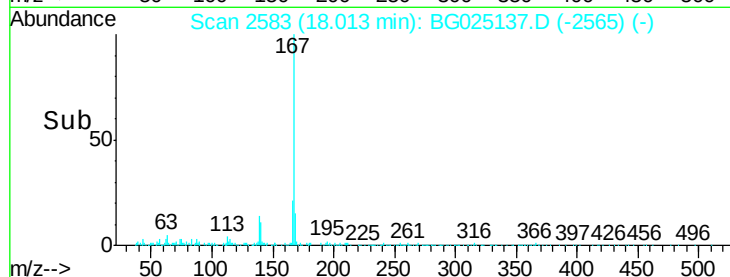


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E

Time-->



#73

Di-n-butylphthalate

Concen: 2.61 ng/ul

RT: 18.53 min Scan# 2671

Delta R.T. 0.00 min

Lab File: BG025137.D

Acq: 13 Dec 2016 5:57

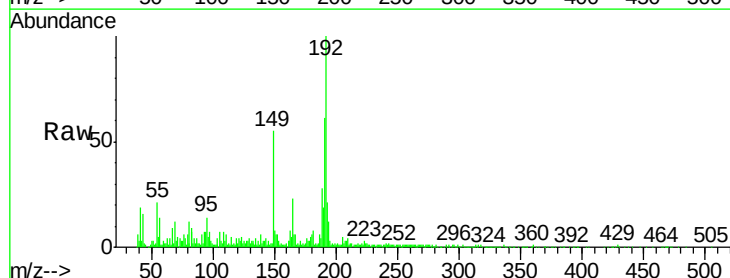
Tgt Ion:149 Resp: 88365

Ion Ratio Lower Upper

149 100

150 14.7 7.9 11.9#

104 7.0 5.8 8.8

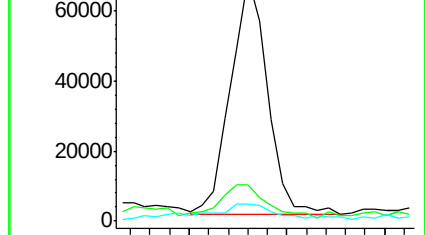
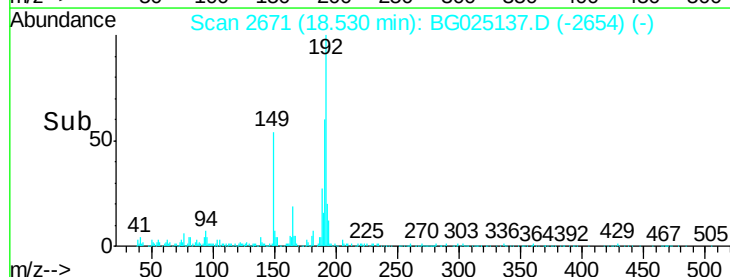


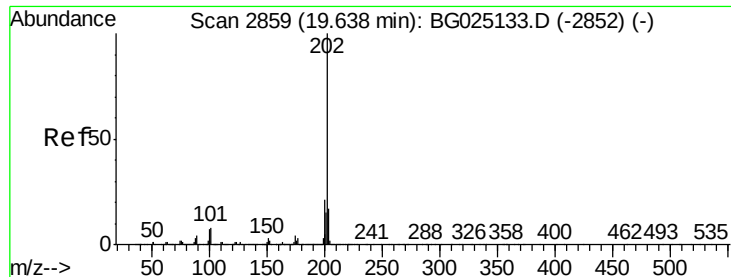
Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E

Time-->

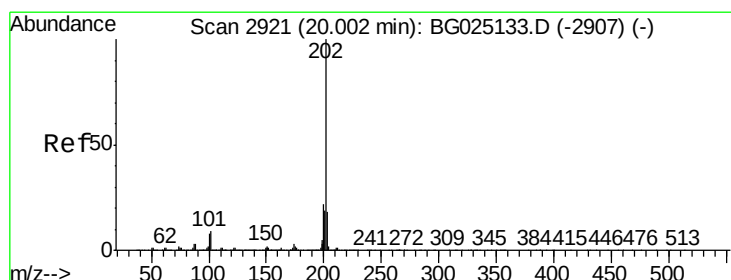
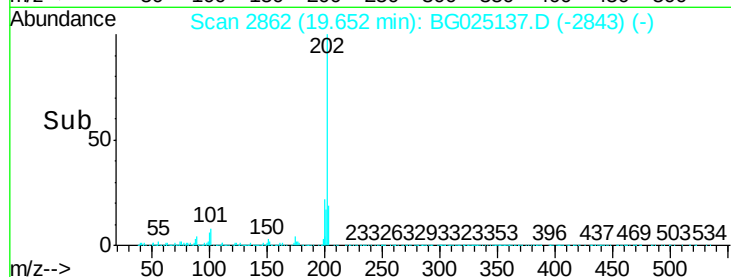
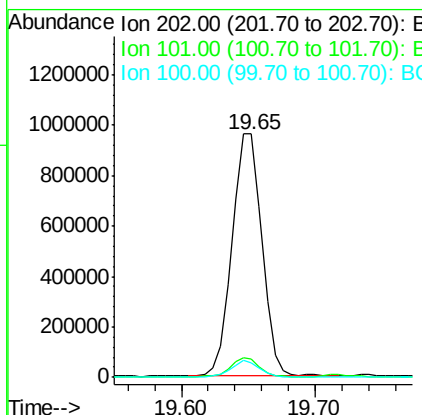
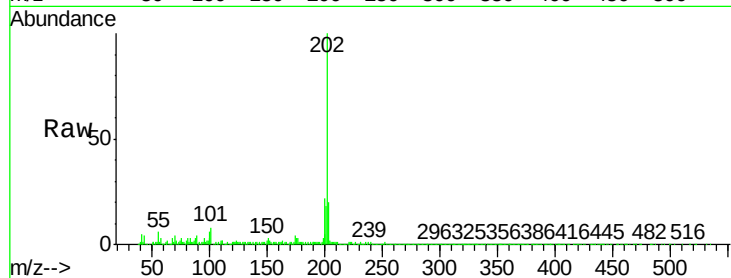




#74
Fluoranthene
Concen: 40.40 ng/ul
RT: 19.65 min Scan# 2862
Delta R.T. 0.01 min
Lab File: BG025137.D
Acq: 13 Dec 2016 5:57

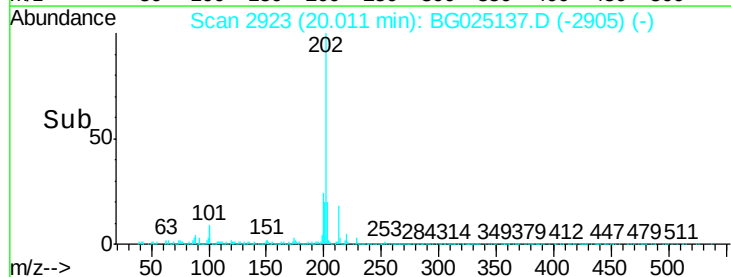
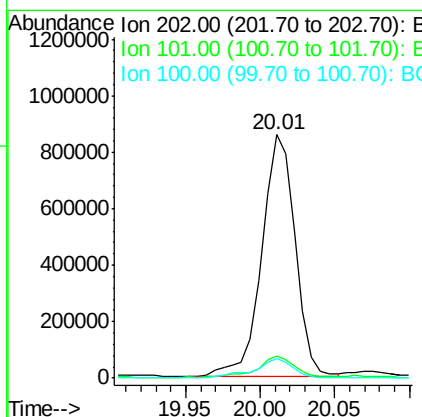
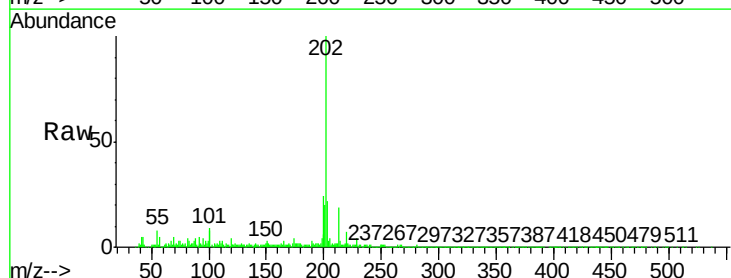
Instrument :
BNA_G
ClientSampleId :
P035-SS002-1824-03

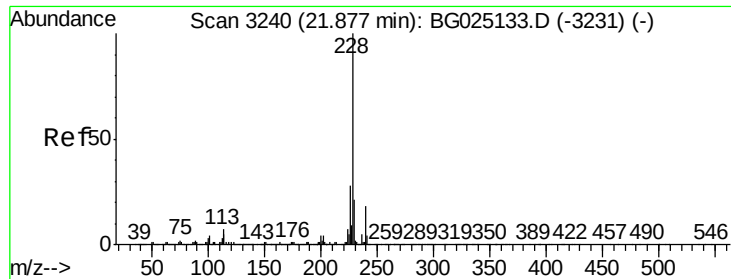
Tgt Ion:202 Resp: 1498674
Ion Ratio Lower Upper
202 100
101 7.7 6.2 9.2
100 5.9 5.2 7.8



#77
Pyrene
Concen: 34.36 ng/ul
RT: 20.01 min Scan# 2923
Delta R.T. 0.01 min
Lab File: BG025137.D
Acq: 13 Dec 2016 5:57

Tgt Ion:202 Resp: 1324904
Ion Ratio Lower Upper
202 100
101 9.1 6.9 10.3
100 8.1 6.6 10.0





#80

Benzo(a)anthracene

Concen: 22.08 ng/ul

RT: 21.89 min Scan# 3243

Delta R.T. 0.01 min

Lab File: BG025137.D

Acq: 13 Dec 2016 5:57

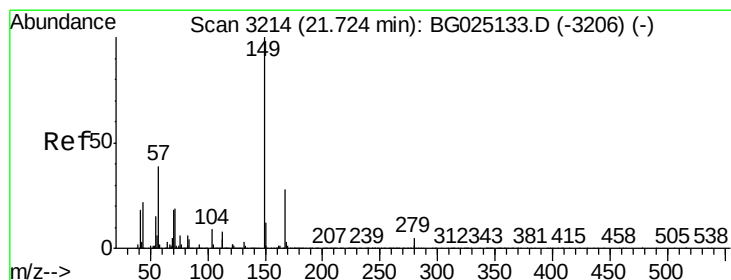
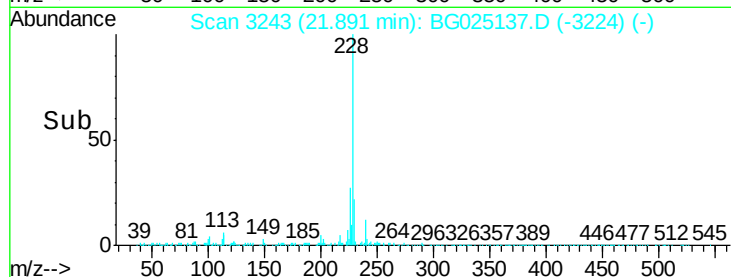
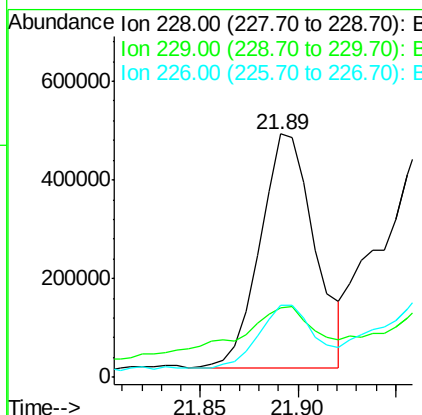
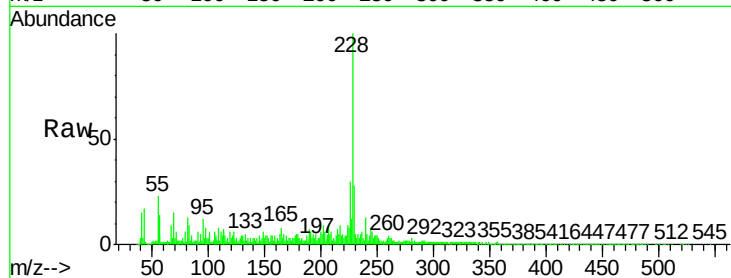
Instrument :

BNA_G

ClientSampleId :

P035-SS002-1824-03

Tgt Ion:	228	Resp:	919945
Ion	Ratio	Lower	Upper
228	100		
229	28.4	16.3	24.5#
226	29.7	21.9	32.9



#81

Bis(2-ethylhexyl)phthalate

Concen: 30.08 ng/ul

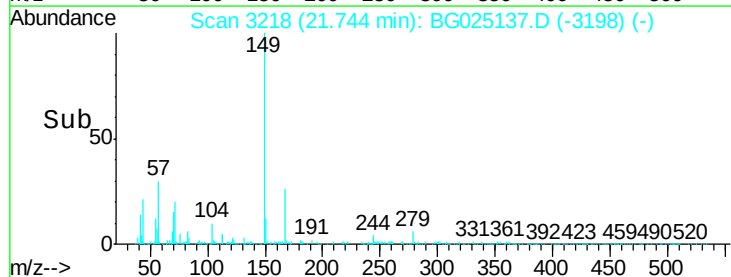
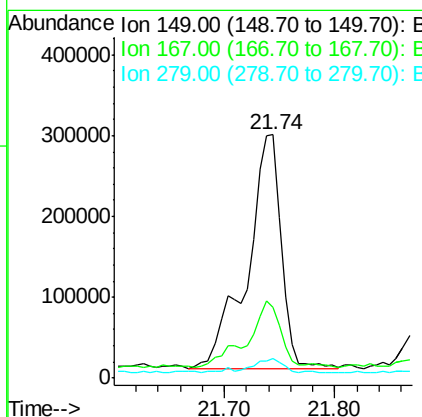
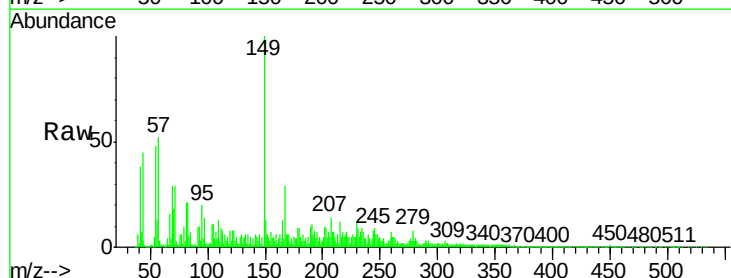
RT: 21.74 min Scan# 3218

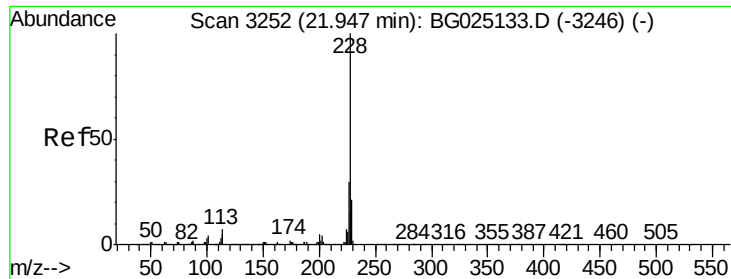
Delta R.T. 0.02 min

Lab File: BG025137.D

Acq: 13 Dec 2016 5:57

Tgt Ion:	149	Resp:	624991
Ion	Ratio	Lower	Upper
149	100		
167	28.9	21.8	32.8
279	8.2	4.5	6.7#





#82

Chrysene

Concen: 28.60 ng/ul

RT: 21.96 min Scan# 3255

Delta R.T. 0.01 min

Lab File: BG025137.D

Acq: 13 Dec 2016 5:57

Instrument :

BNA_G

ClientSampleId :

P035-SS002-1824-03

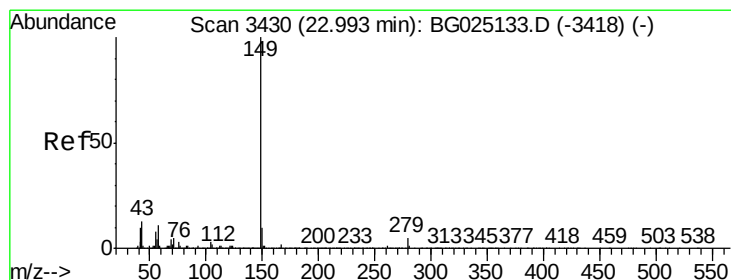
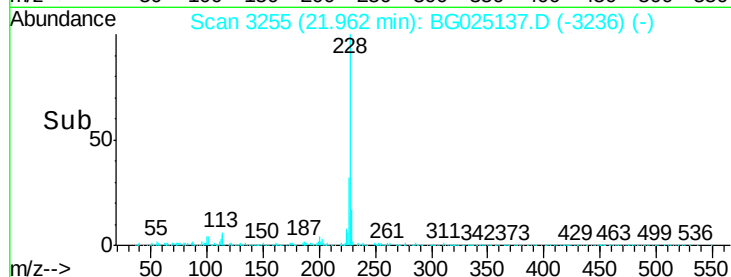
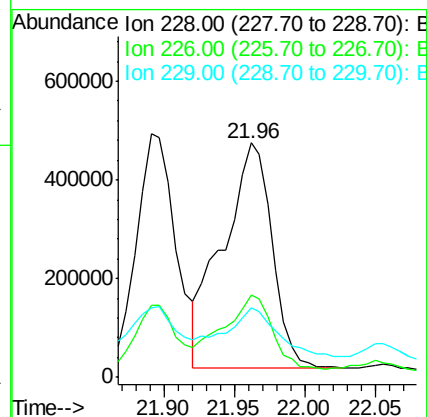
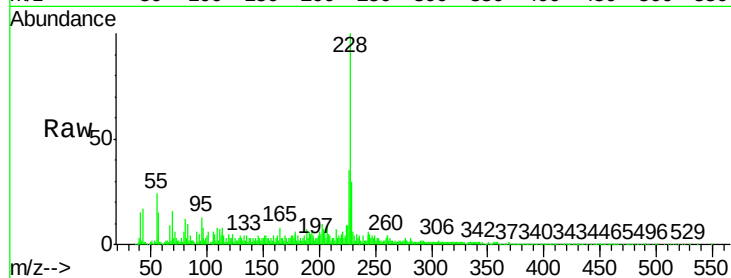
Tgt Ion:228 Resp: 1114630

Ion Ratio Lower Upper

228 100

226 35.0 24.0 36.0

229 29.8 16.9 25.3#



#84

Di-n-octyl phthalate

Concen: 27.78 ng/ul

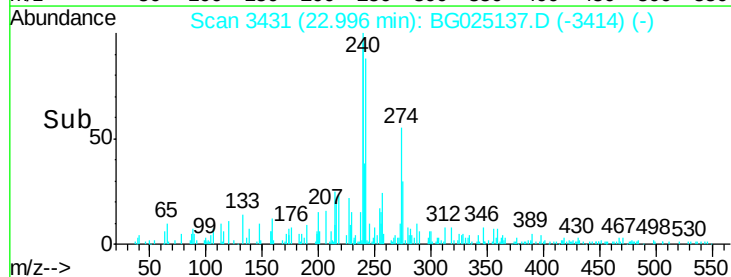
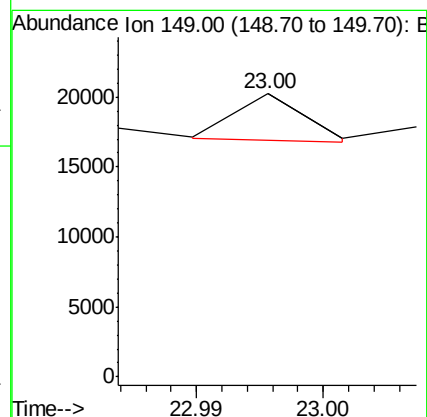
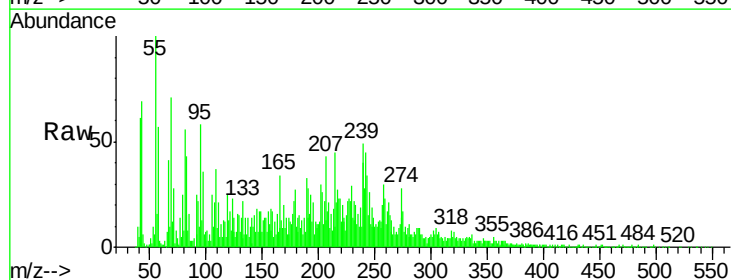
RT: 23.00 min Scan# 3431

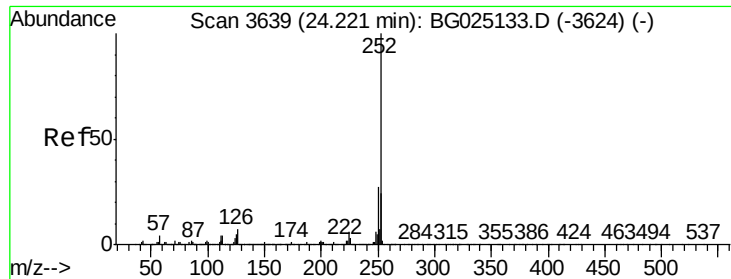
Delta R.T. 0.00 min

Lab File: BG025137.D

Acq: 13 Dec 2016 5:57

Tgt Ion:149 Resp: 1209





#85

Benzo(b)fluoranthene

Concen: 16163.85 ng/ul

RT: 24.28 min Scan# 3649

Delta R.T. 0.06 min

Lab File: BG025137.D

Acq: 13 Dec 2016 5:57

Instrument :

BNA_G

ClientSampleId :

P035-SS002-1824-03

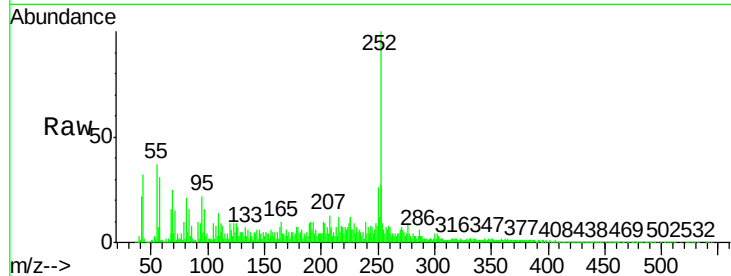
Tgt Ion:252 Resp: 859218

Ion Ratio Lower Upper

252 100

253 27.4 17.7 26.5#

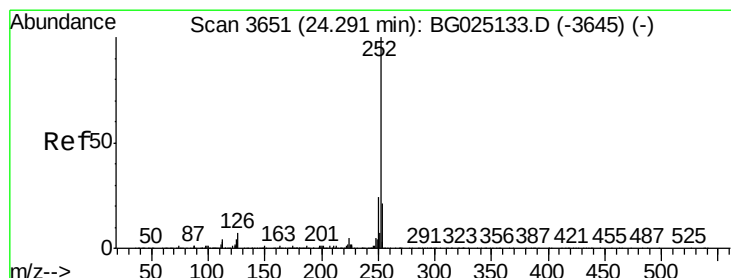
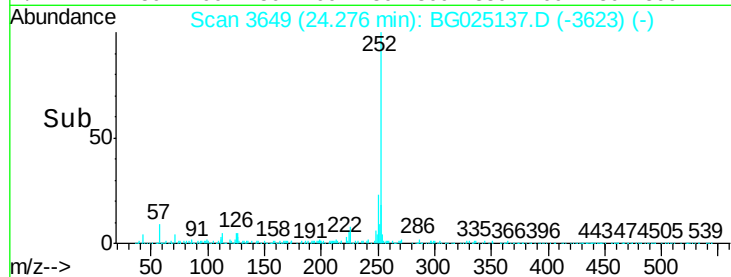
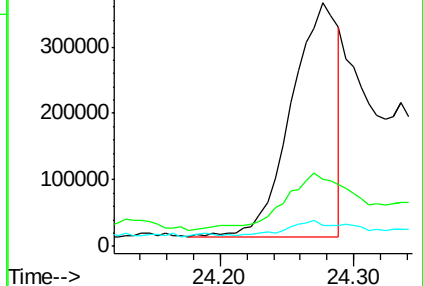
125 8.6 4.0 6.0#



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



#86

Benzo(k)fluoranthene

Concen: 25474.30 ng/ul

RT: 24.28 min Scan# 3649

Delta R.T. -0.02 min

Lab File: BG025137.D

Acq: 13 Dec 2016 5:57

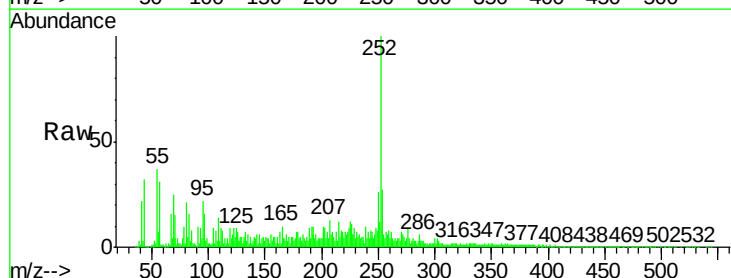
Tgt Ion:252 Resp: 1287241

Ion Ratio Lower Upper

252 100

253 27.4 18.5 27.7

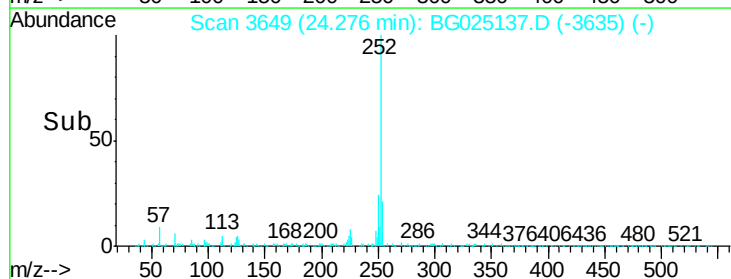
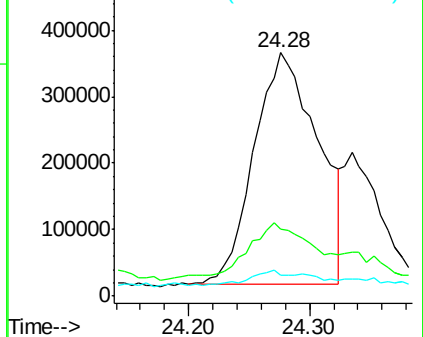
125 8.6 4.1 6.1#

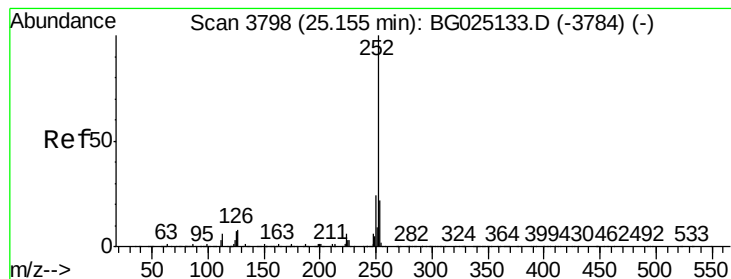


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#88

Benzo(a)pyrene

Concen: 11774.09 ng/ul

RT: 25.07 min Scan# 3784

Delta R.T. -0.09 min

Lab File: BG025137.D

Acq: 13 Dec 2016 5:57

Instrument :

BNA_G

ClientSampleId :

P035-SS002-1824-03

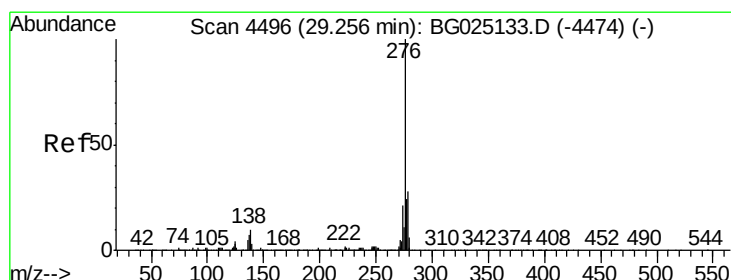
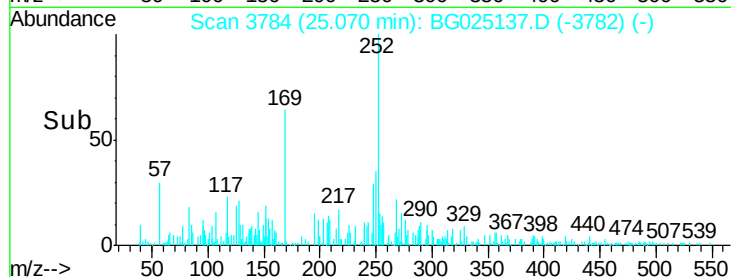
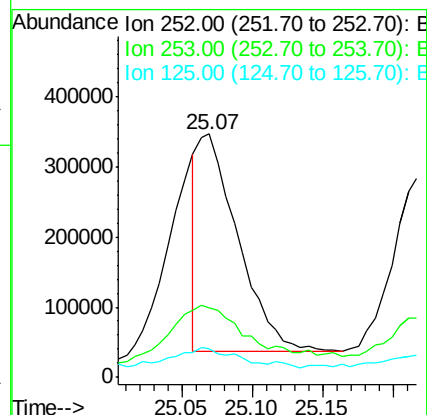
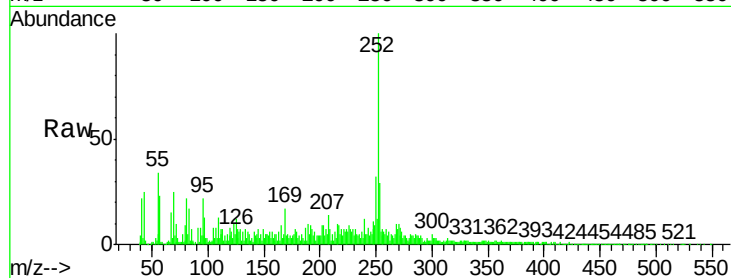
Tgt Ion: 252 Resp: 601780

Ion Ratio Lower Upper

252 100

253 28.7 17.8 26.6#

125 11.8 5.4 8.0#



#89

Indeno(1,2,3-cd)pyrene

Concen: 141.86 ng/ul

RT: 29.24 min Scan# 4494

Delta R.T. -0.02 min

Lab File: BG025137.D

Acq: 13 Dec 2016 5:57

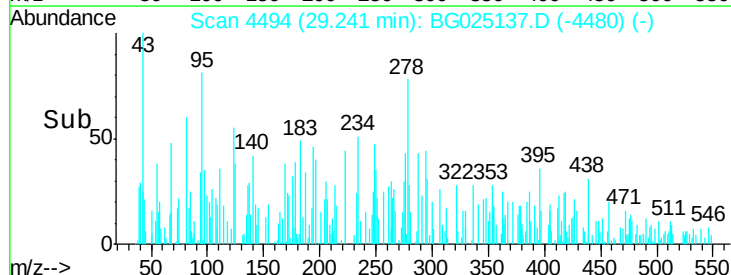
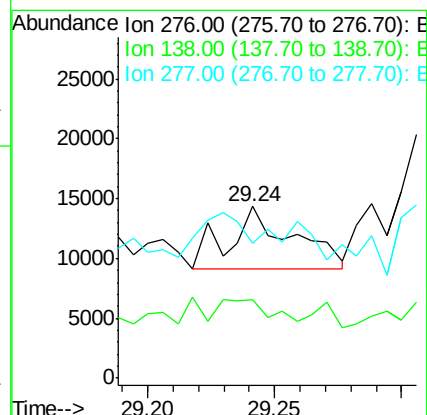
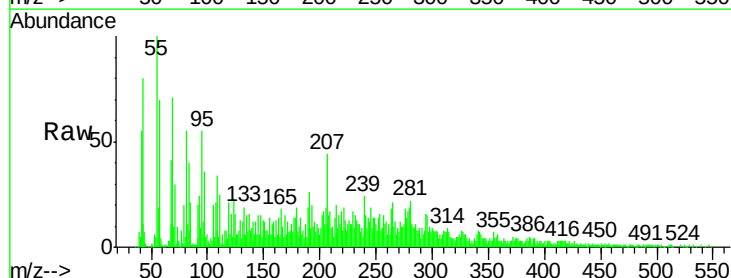
Tgt Ion: 276 Resp: 9011

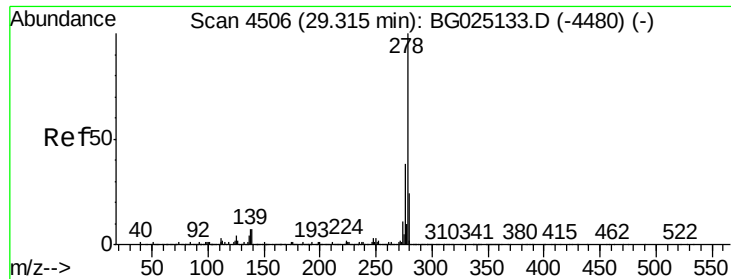
Ion Ratio Lower Upper

276 100

138 45.7 8.2 12.4#

277 78.8 18.6 28.0#





#90

Dibenzo(a,h)anthracene

Concen: 52.82 ng/ul

RT: 29.29 min Scan# 4503

Delta R.T. -0.02 min

Lab File: BG025137.D

Acq: 13 Dec 2016 5:57

Instrument :

BNA_G

ClientSampleId :

P035-SS002-1824-03

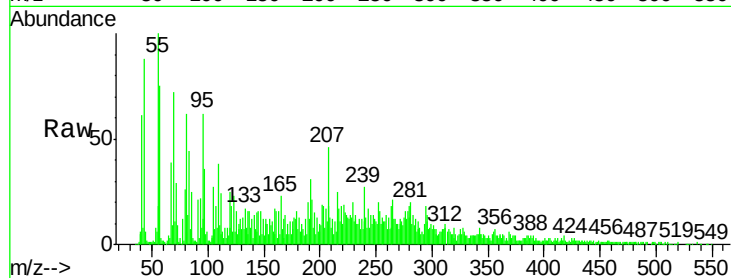
Tgt Ion:278 Resp: 2827

Ion Ratio Lower Upper

278 100

139 72.5 6.7 10.1#

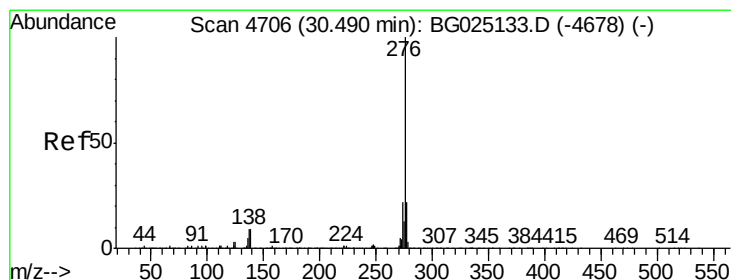
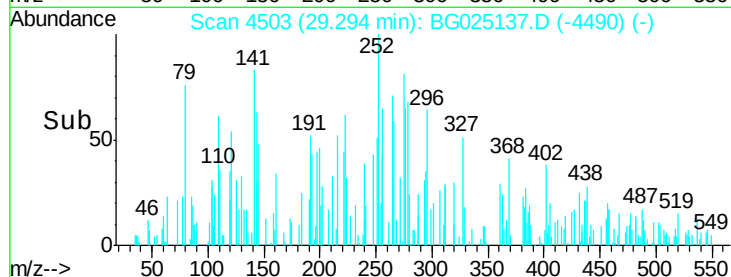
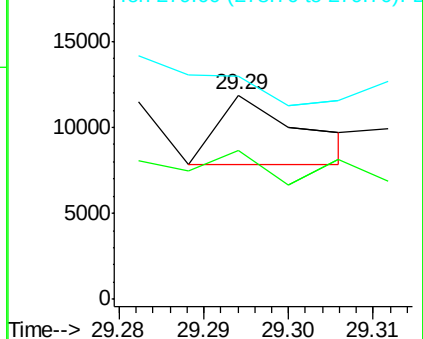
279 109.2 20.9 31.3#



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#91

Benzo(g,h,i)perylene

Concen: 210.11 ng/ul

RT: 30.46 min Scan# 4702

Delta R.T. -0.03 min

Lab File: BG025137.D

Acq: 13 Dec 2016 5:57

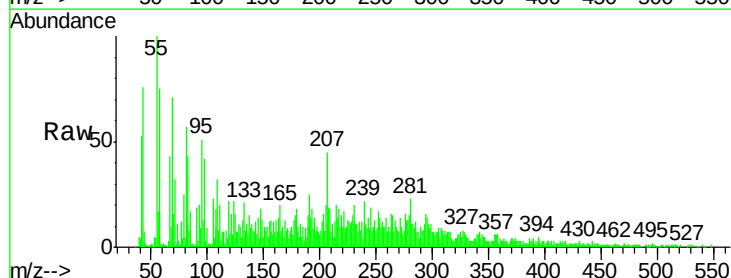
Tgt Ion:276 Resp: 11138

Ion Ratio Lower Upper

276 100

138 56.2 8.6 12.8#

277 79.3 17.6 26.4#



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

