

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG122215\
 Data File : BG020413.D
 Acq On : 22 Dec 2015 17:35
 Operator : UM/SJ
 Sample : G4848-08
 Misc : med level RX
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 D9N54ME

Quant Time: Dec 23 04:14:44 2015
 Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG121415.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Wed Dec 23 04:11:36 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.09	152	19458	20.00	ng/ul	0.00
18) Naphthalene-d8	10.91	136	94497	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.72	164	72865	20.00	ng/ul	0.00
62) Phenanthrene-d10	17.57	188	130964	20.00	ng/ul	0.11
78) Chrysene-d12	21.74	240	171950	20.00	ng/ul	0.00
86) Perylene-d12	25.01	264	167775	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.45	96	1032	2.93	ng/uL	0.00
5) Phenol-d5	7.24	99	25751	15.01	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.41	67	18211	17.79	ng/ul	0.00
9) 2-Chlorophenol-d4	7.62	132	22264	17.84	ng/ul	0.00
13) 4-Methylphenol-d8	8.79	113	25473	17.36	ng/ul	0.00
19) Nitrobenzene-d5	9.25	128	13397	18.19	ng/ul	0.00
22) 2-Nitrophenol-d4	9.97	143	15543	18.96	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.52	165	28052	16.90	ng/ul	0.00
29) 4-Chloroaniline-d4	11.04	131	32131	17.23	ng/ul	0.00
44) Dimethylphthalate-d6	14.12	166	105885	17.97	ng/ul	0.00
47) Acenaphthylene-d8	14.42	160	120811	17.62	ng/ul	0.00
52) 4-Nitrophenol-d4	14.93	143	9836	9.31	ng/ul	0.00
58) Fluorene-d10	15.71	176	94542	17.68	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.92	200	71	0.09	ng/ul	0.09
71) Anthracene-d10	17.57	188	130964	21.70	ng/ul	0.00
79) Pyrene-d10	19.85	212	139296	17.38	ng/ul	0.00
90) Benzo(a)pyrene-d12	24.78	264	163430	19.53	ng/ul	0.00

Target Compounds

						Qvalue
28) Naphthalene	10.97	128	2076383	420.76	ng/ul#	90
30) 4-Chloroaniline	10.97	127	326346	171.41	ng/ul#	14
34) 2-Methylnaphthalene	12.56	142	796272	211.25	ng/ul	97
35) 1-Methylnaphthalene	12.78	142	384307	106.05	ng/ul	96
41) 1,1'-Biphenyl	13.55	154	285702	51.97	ng/ul	96
45) Dimethylphthalate	14.17	163	17200	2.86	ng/ul	99
48) Acenaphthylene	14.44	152	67318	9.24	ng/ul#	94
50) Acenaphthene	14.80	153	1156218	235.89	ng/ul	94
53) 4-Nitrophenol	14.79	109	2396	2.36	ng/ul#	1
54) Dibenzofuran	15.13	168	1156403	158.59	ng/ul	95
55) 2,4-Dinitrotoluene	15.06	165	2231	1.22	ng/ul#	48
59) Fluorene	15.78	166	1123702	191.91	ng/ul	98
61) 4-Nitroaniline	15.78	138	15013	11.49	ng/ul#	12
65) N-Nitrosodiphenylamine	16.07	169	5335	1.47	ng/ul#	52
70) Phenanthrene	17.61	178	383511	53.54	ng/ul	99
72) Anthracene	17.61	178	366486	50.44	ng/ul	97
75) Carbazole	17.87	167	184821	30.27	ng/ul	99
80) Pyrene	19.89	202	1518307	145.89	ng/ul	97
83) Benzo(a)anthracene	21.72	228	429493	42.81	ng/ul	96
85) Chrysene	21.79	228	347816	36.81	ng/ul	96
88) Benzo(b)fluoranthene	23.97	252	197785	19.59	ng/ul	96
89) Benzo(k)fluoranthene	24.03	252	65727	6.78	ng/ul	98
91) Benzo(a)pyrene	24.85	252	108211	11.30	ng/ul	95

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QLast Update : Wed Dec 23 04:11:36 2015
Response via : Initial Calibration

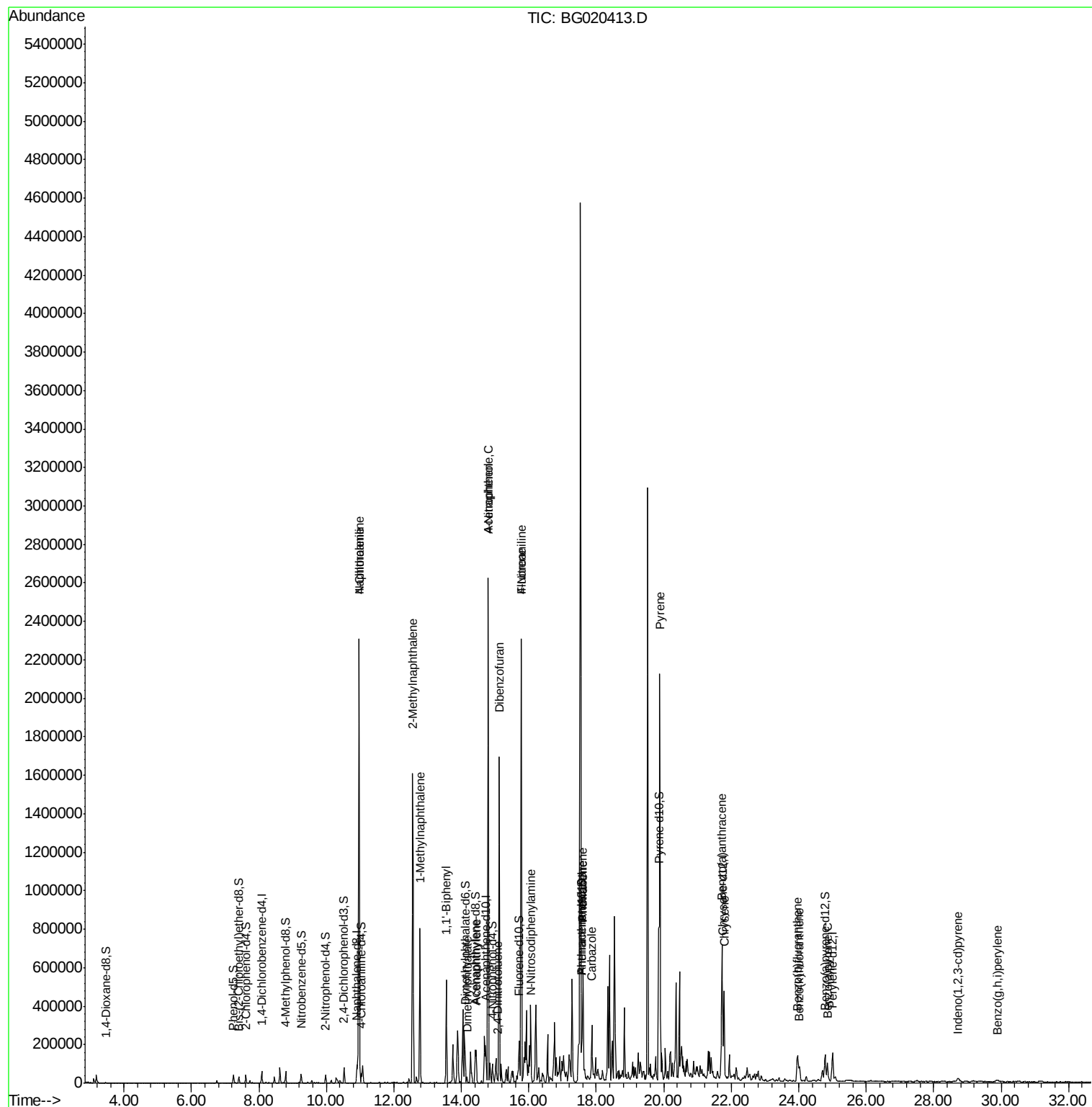
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) Indeno(1,2,3-cd)pyrene	28.73	276	33681	2.95	ng/ul#	92
94) Benzo(g,h,i)perylene	29.89	276	22867	2.45	ng/ul	97

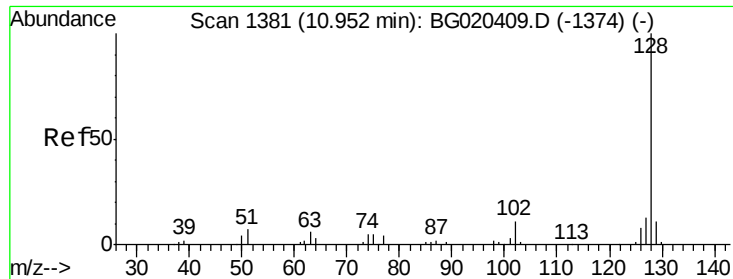
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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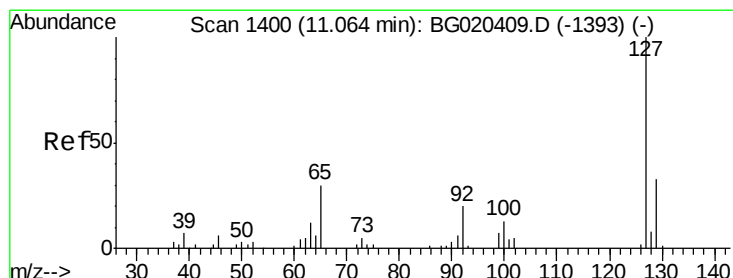
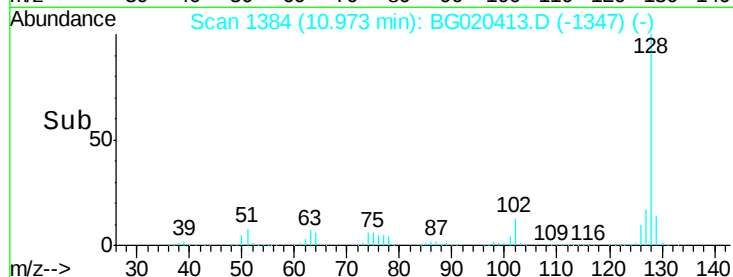
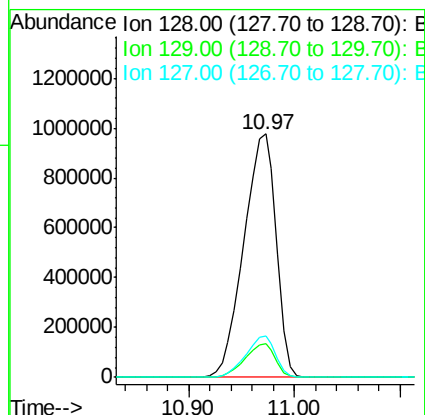
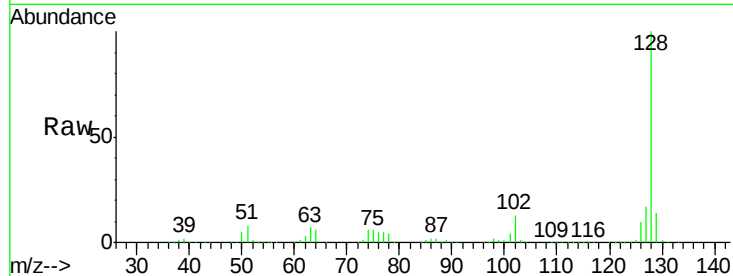




#28
Naphthalene
Concen: 420.76 ng/ul
RT: 10.97 min Scan# 1384
Delta R.T. 0.02 min
Lab File: BG020413.D
Acq: 22 Dec 2015 17:35

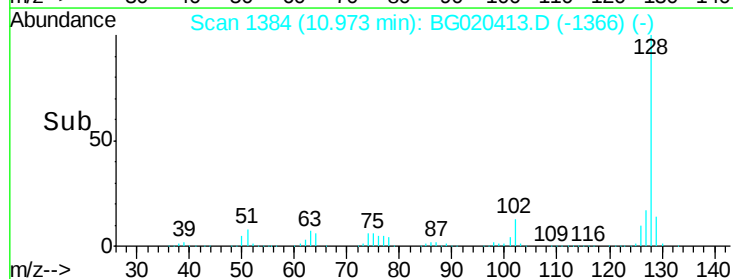
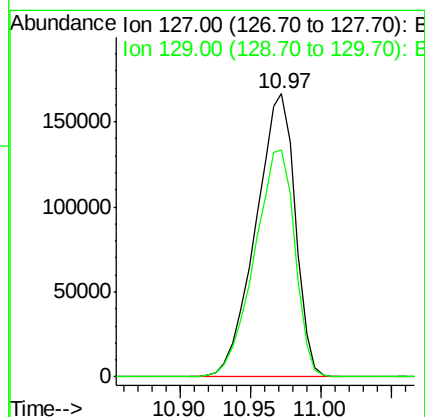
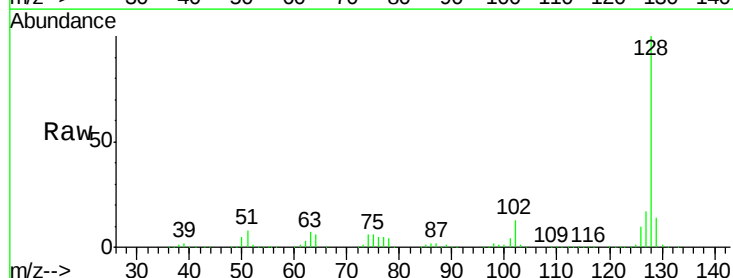
Instrument :
BNA_G
ClientSampleId :
D9N54ME

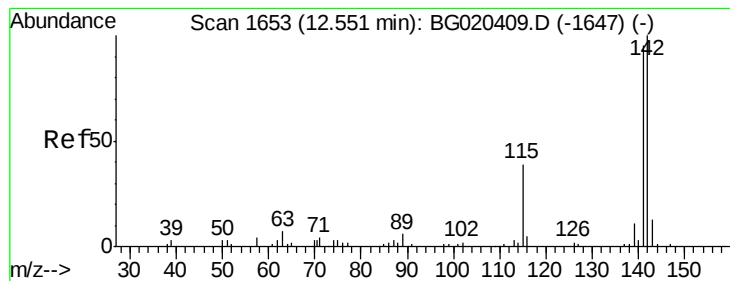
Tgt Ion:128 Resp: 2076383
Ion Ratio Lower Upper
128 100
129 13.7 8.6 12.8#
127 17.0 10.1 15.1#



#30
4-Chloroaniline
Concen: 171.41 ng/ul
RT: 10.97 min Scan# 1384
Delta R.T. -0.09 min
Lab File: BG020413.D
Acq: 22 Dec 2015 17:35

Tgt Ion:127 Resp: 326346
Ion Ratio Lower Upper
127 100
129 80.1 25.7 38.5#





#34

2-Methylnaphthalene

Concen: 211.25 ng/ul

RT: 12.56 min Scan# 1654

Delta R.T. 0.01 min

Lab File: BG020413.D

Acq: 22 Dec 2015 17:35

Instrument :

BNA_G

ClientSampleId :

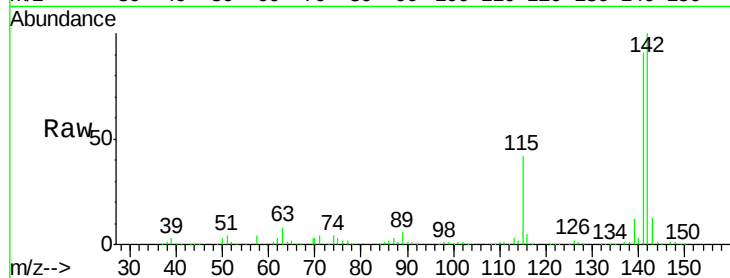
D9N54ME

Tgt Ion:142 Resp: 796272

Ion Ratio Lower Upper

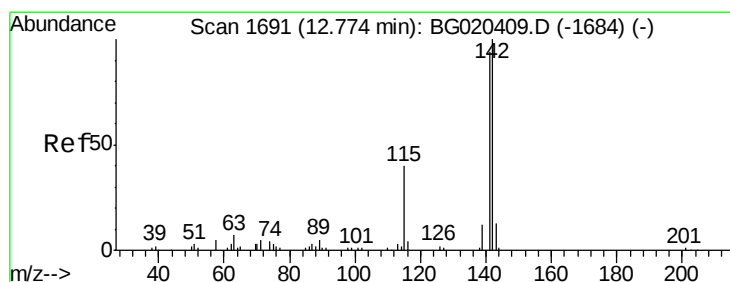
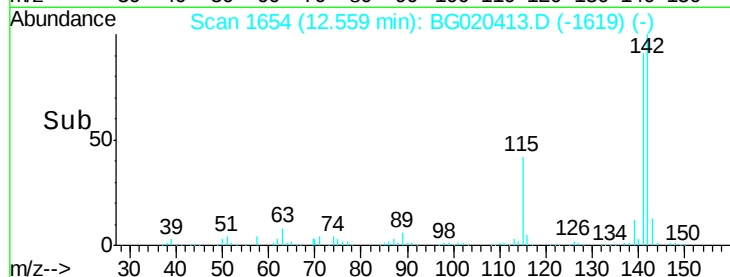
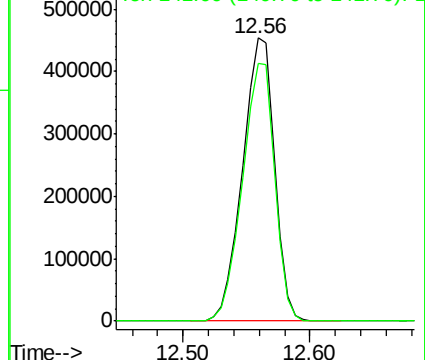
142 100

141 90.9 74.9 112.3



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E



#35

1-Methylnaphthalene

Concen: 106.05 ng/ul

RT: 12.78 min Scan# 1691

Delta R.T. 0.00 min

Lab File: BG020413.D

Acq: 22 Dec 2015 17:35

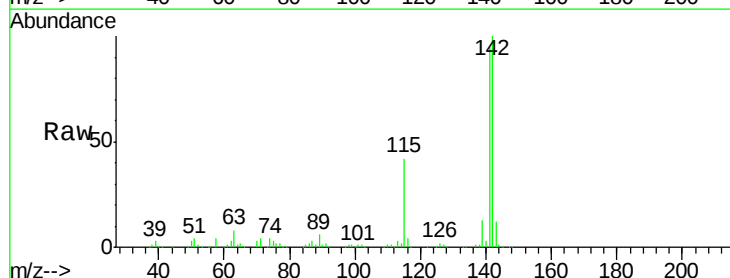
Tgt Ion:142 Resp: 384307

Ion Ratio Lower Upper

142 100

141 95.1 73.0 109.6

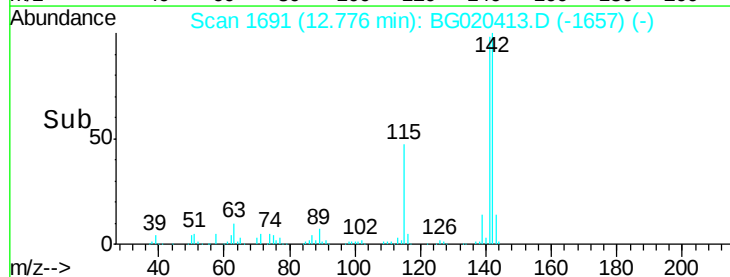
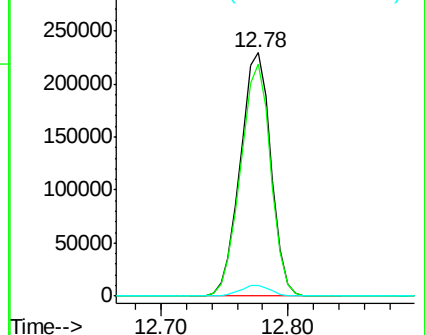
116 4.4 3.0 4.6

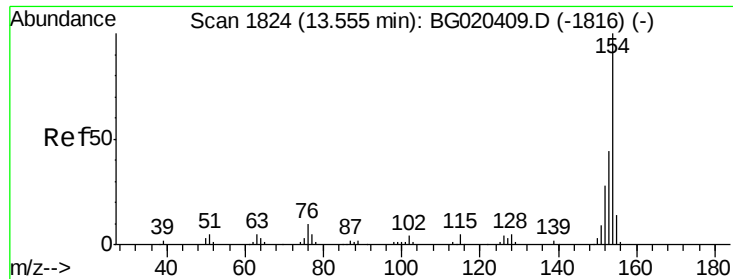


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E

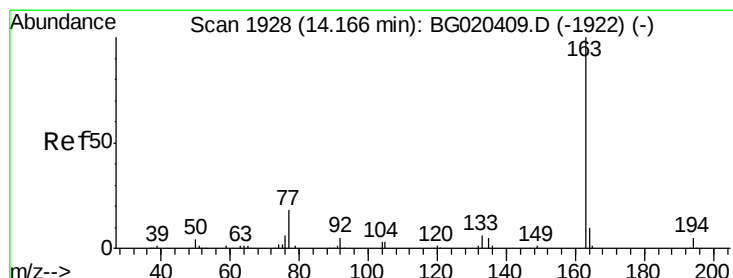
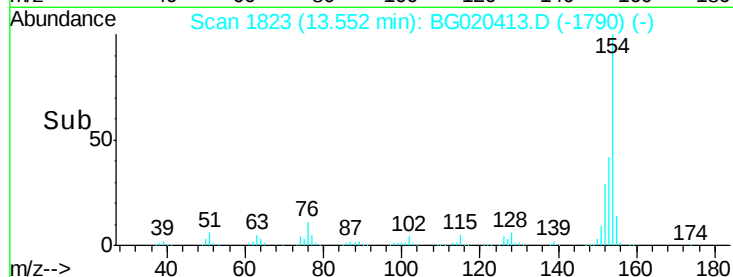
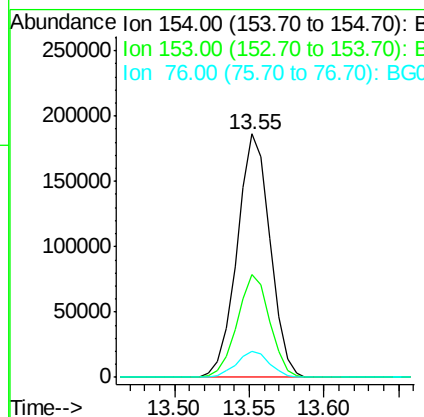
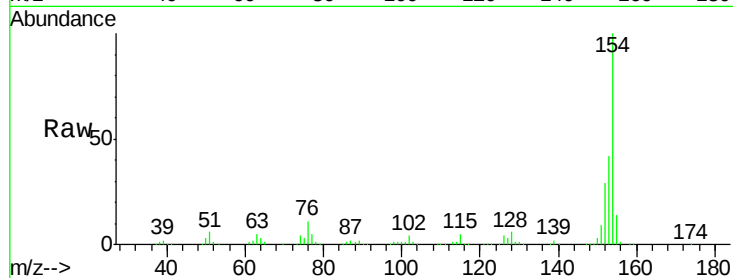




#41
 1,1'-Biphenyl
 Concen: 51.97 ng/ul
 RT: 13.55 min Scan# 1823
 Delta R.T. -0.00 min
 Lab File: BG020413.D
 Acq: 22 Dec 2015 17:35

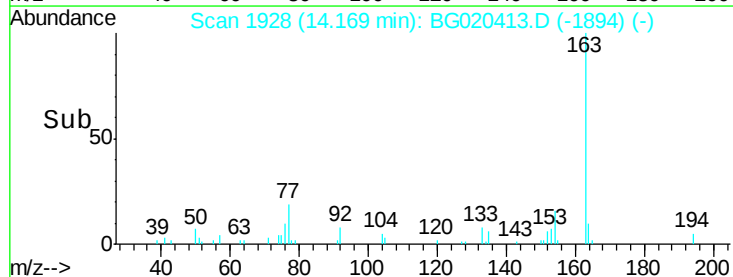
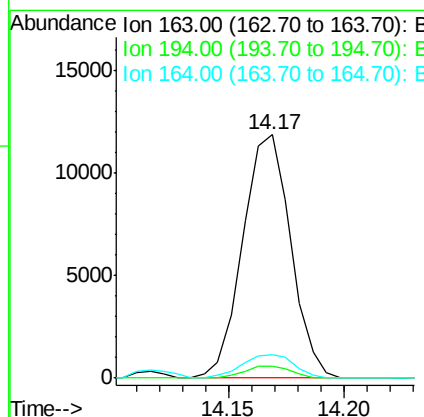
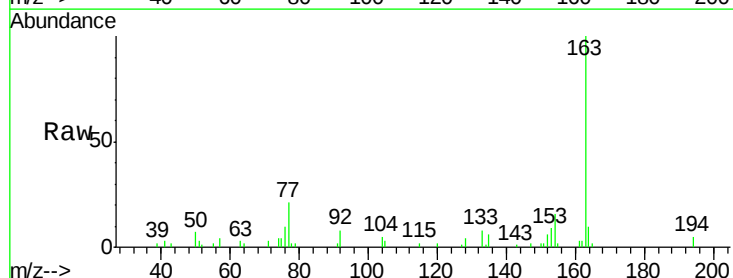
Instrument :
 BNA_G
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 D9N54ME

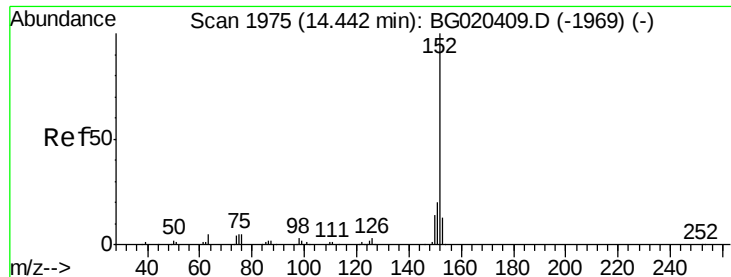
Tgt Ion:154 Resp: 285702
 Ion Ratio Lower Upper
 154 100
 153 42.0 35.5 53.3
 76 10.8 10.4 15.6



#45
 Dimethylphthalate
 Concen: 2.86 ng/ul
 RT: 14.17 min Scan# 1928
 Delta R.T. 0.00 min
 Lab File: BG020413.D
 Acq: 22 Dec 2015 17:35

Tgt Ion:163 Resp: 17200
 Ion Ratio Lower Upper
 163 100
 194 4.8 3.5 5.3
 164 9.7 7.7 11.5





#48

Acenaphthylene

Concen: 9.24 ng/ul

RT: 14.44 min Scan# 1975

Delta R.T. 0.00 min

Lab File: BG020413.D

Acq: 22 Dec 2015 17:35

Instrument :

BNA_G

ClientSampled :

D9N54ME

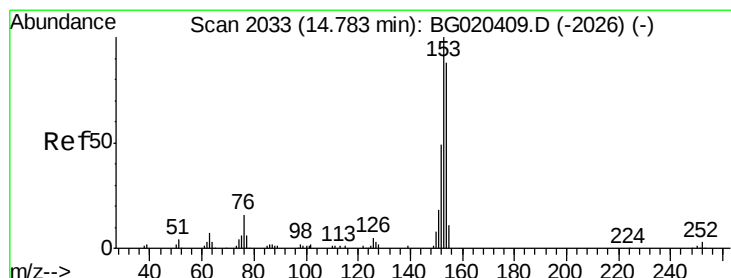
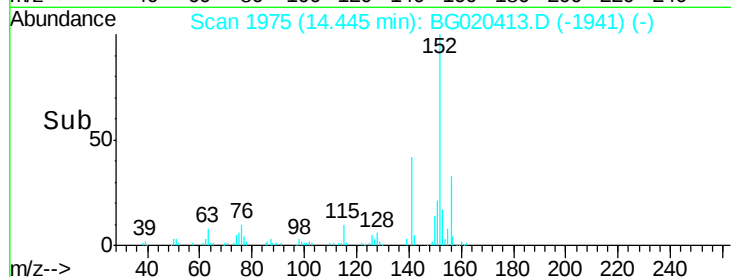
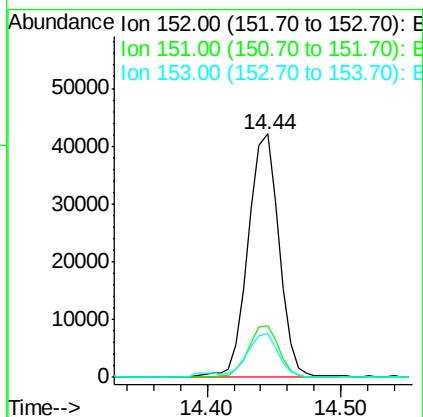
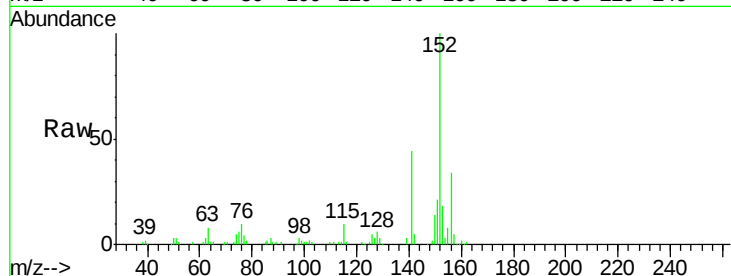
Tgt Ion:152 Resp: 67318

Ion Ratio Lower Upper

152 100

151 21.3 16.4 24.6

153 17.9 10.4 15.6#



#50

Acenaphthene

Concen: 235.89 ng/ul

RT: 14.80 min Scan# 2035

Delta R.T. 0.01 min

Lab File: BG020413.D

Acq: 22 Dec 2015 17:35

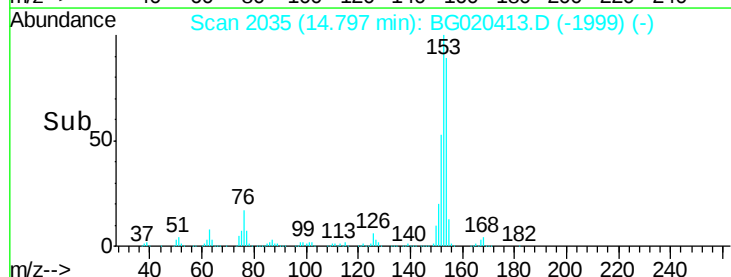
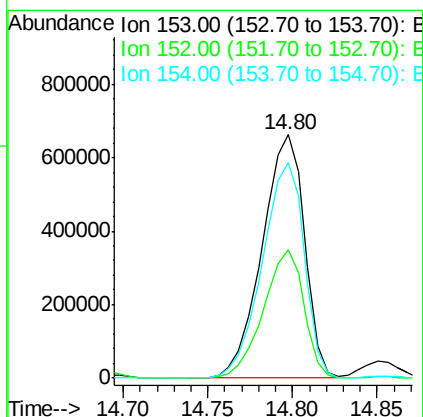
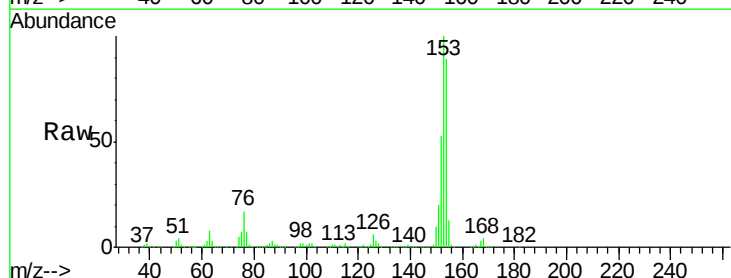
Tgt Ion:153 Resp: 1156218

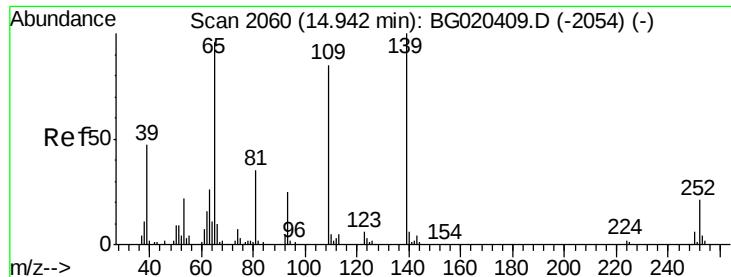
Ion Ratio Lower Upper

153 100

152 52.7 37.6 56.4

154 88.6 67.9 101.9

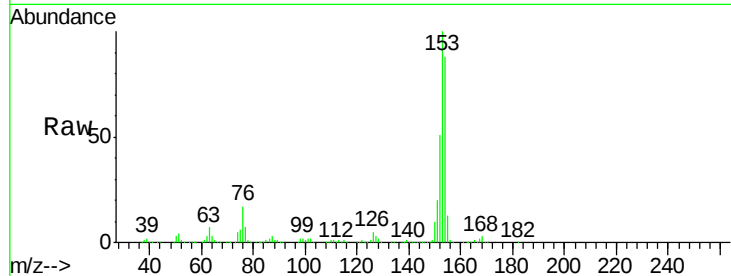




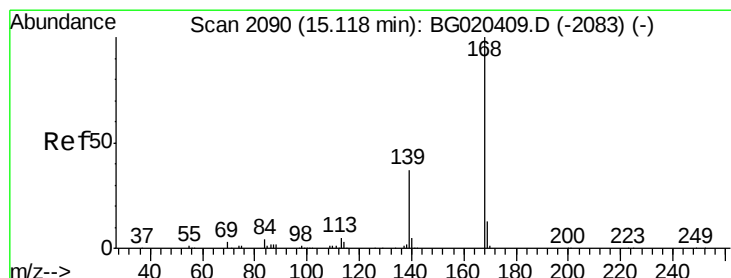
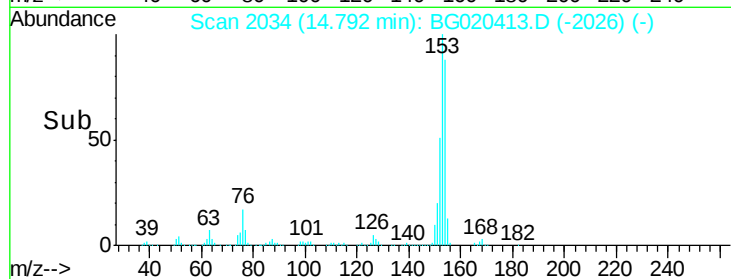
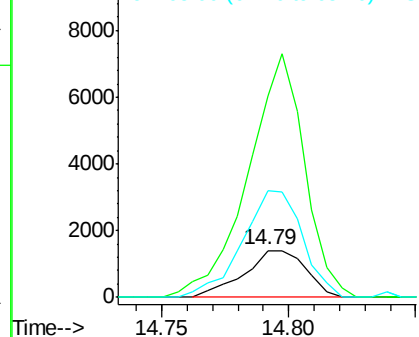
#53
4-Nitrophenol
Concen: 2.36 ng/ul
RT: 14.79 min Scan# 2034
Delta R.T. -0.15 min
Lab File: BG020413.D
Acq: 22 Dec 2015 17:35

Instrument :
BNA_G
ClientSampleId :
D9N54ME

Tgt Ion	Ratio	Lower	Upper
109	100		
139	433.5	80.5	120.7#
65	229.5	93.4	140.2#

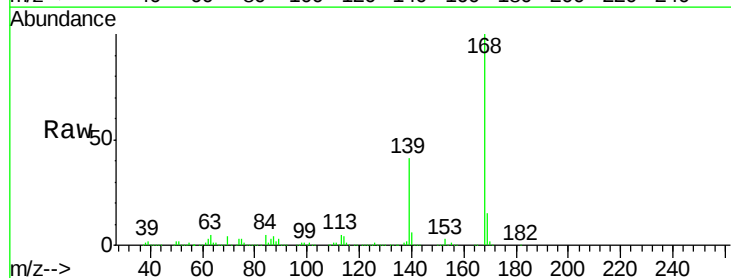


Abundance Ion 109.00 (108.70 to 109.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 65.00 (64.70 to 65.70): BGC

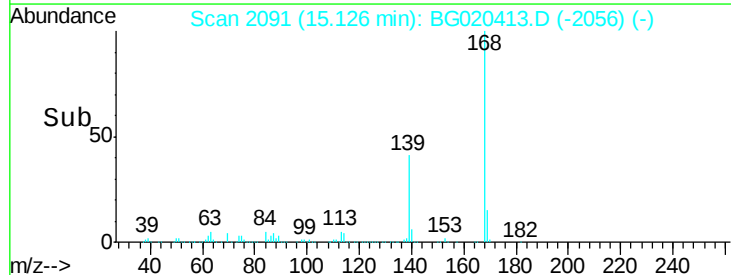
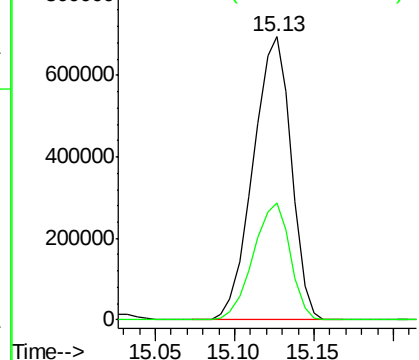


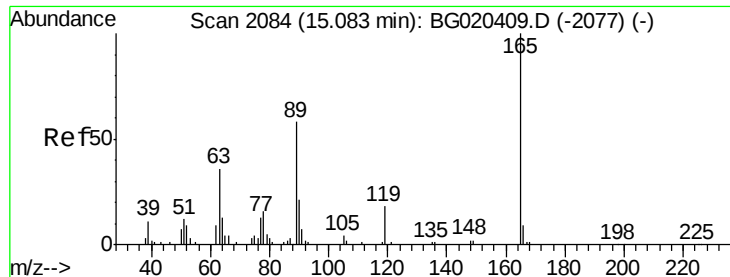
#54
Dibenzofuran
Concen: 158.59 ng/ul
RT: 15.13 min Scan# 2091
Delta R.T. 0.01 min
Lab File: BG020413.D
Acq: 22 Dec 2015 17:35

Tgt Ion	Ratio	Lower	Upper
168	100		
139	41.3	30.5	45.7



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

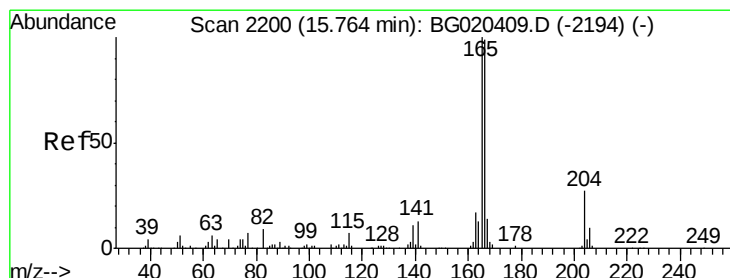
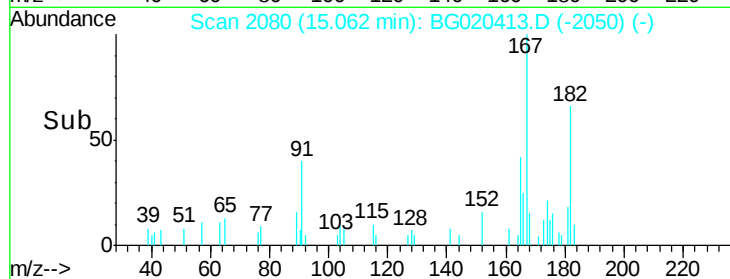
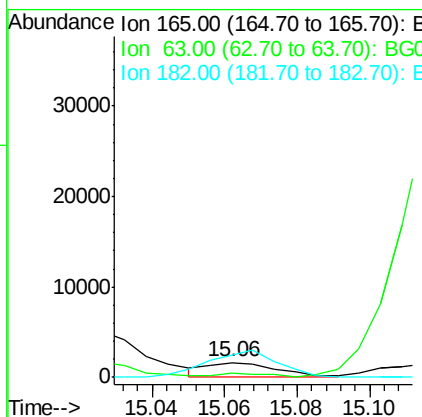
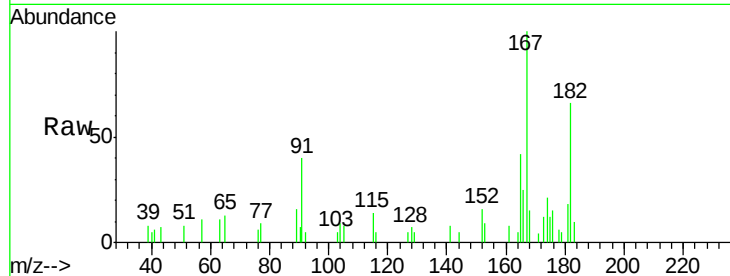




#55
2,4-Dinitrotoluene
Concen: 1.22 ng/ul
RT: 15.06 min Scan# 2080
Delta R.T. -0.02 min
Lab File: BG020413.D
Acq: 22 Dec 2015 17:35

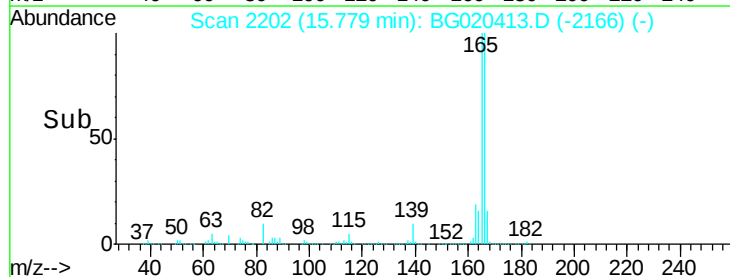
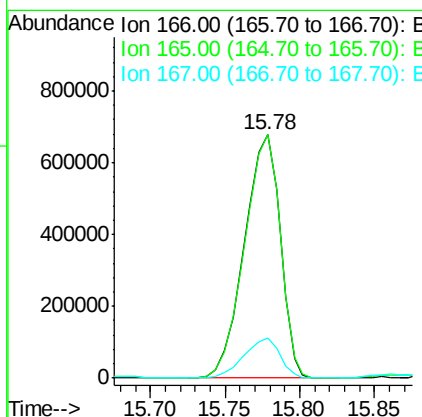
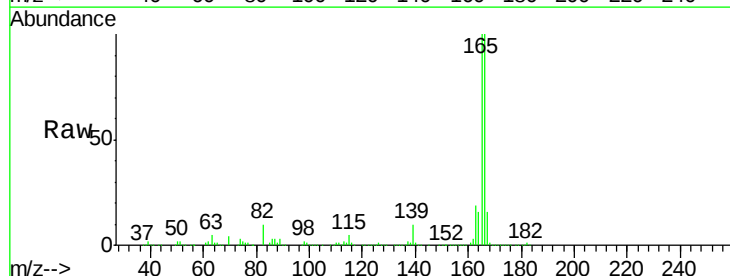
Instrument :
BNA_G
ClientSampleId :
D9N54ME

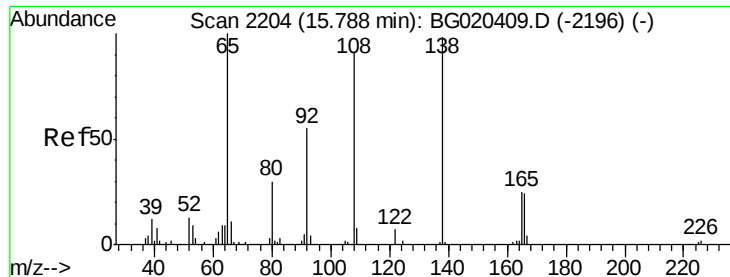
Tgt Ion:165 Resp: 2231
Ion Ratio Lower Upper
165 100
63 26.9 35.8 53.8#
182 156.4 2.2 3.2#



#59
Fluorene
Concen: 191.91 ng/ul
RT: 15.78 min Scan# 2202
Delta R.T. 0.01 min
Lab File: BG020413.D
Acq: 22 Dec 2015 17:35

Tgt Ion:166 Resp: 1123702
Ion Ratio Lower Upper
166 100
165 99.9 81.4 122.0
167 16.4 11.2 16.8

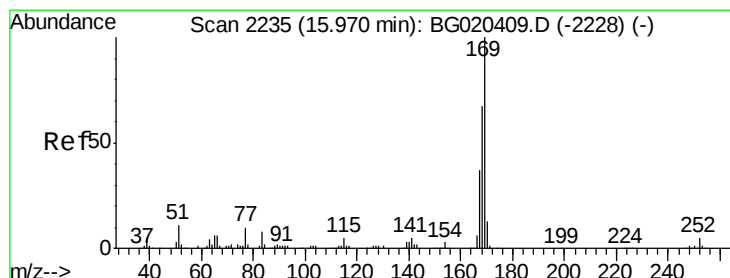
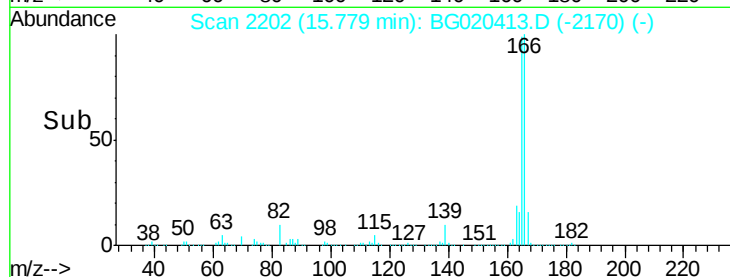
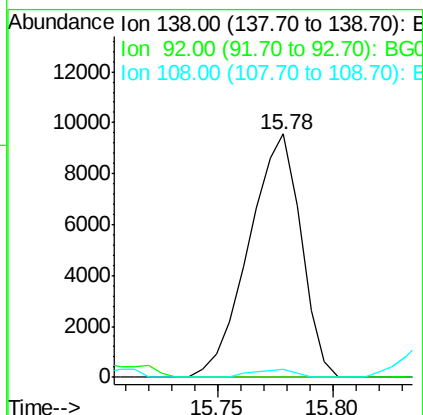
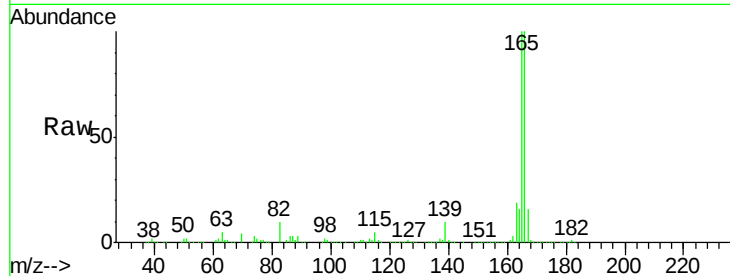




#61
4-Nitroaniline
Concen: 11.49 ng/ul
RT: 15.78 min Scan# 2202
Delta R.T. -0.01 min
Lab File: BG020413.D
Acq: 22 Dec 2015 17:35

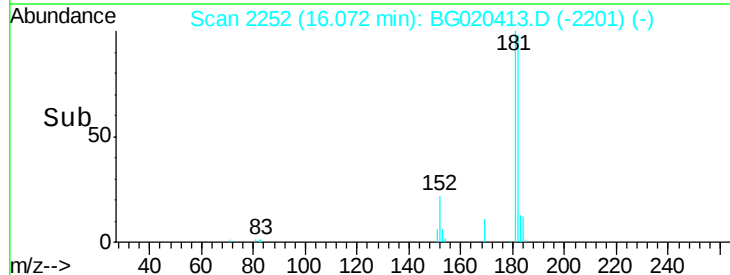
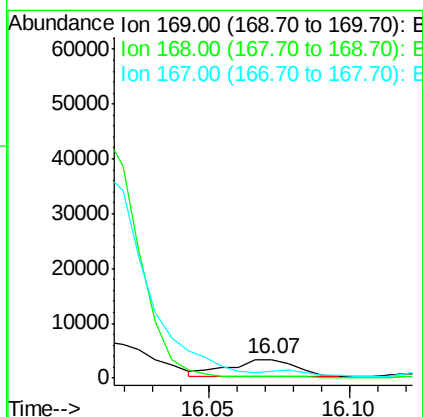
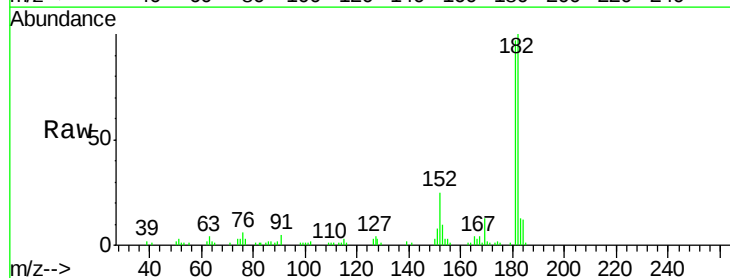
Instrument :
BNA_G
ClientSampleId :
D9N54ME

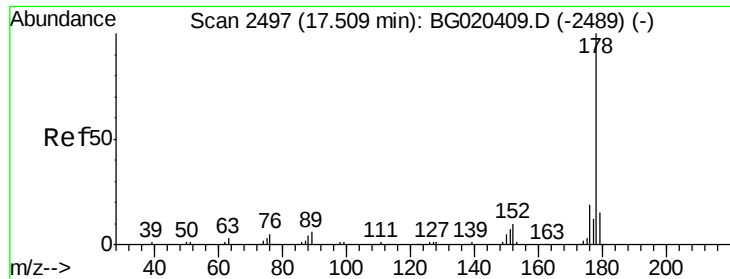
Tgt Ion:138 Resp: 15013
Ion Ratio Lower Upper
138 100
92 0.0 45.2 67.8#
108 3.5 75.4 113.0#



#65
N-Nitrosodiphenylamine
Concen: 1.47 ng/ul
RT: 16.07 min Scan# 2252
Delta R.T. 0.10 min
Lab File: BG020413.D
Acq: 22 Dec 2015 17:35

Tgt Ion:169 Resp: 5335
Ion Ratio Lower Upper
169 100
168 11.1 54.3 81.5#
167 34.1 31.8 47.8





#70

Phenanthrene

Concen: 53.54 ng/ul

RT: 17.61 min Scan# 2513

Delta R.T. 0.10 min

Lab File: BG020413.D

Acq: 22 Dec 2015 17:35

Instrument :

BNA_G

ClientSampleId :

D9N54ME

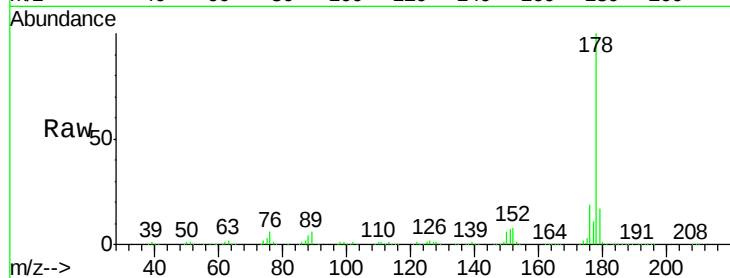
Tgt Ion:178 Resp: 383511

Ion Ratio Lower Upper

178 100

179 17.1 12.9 19.3

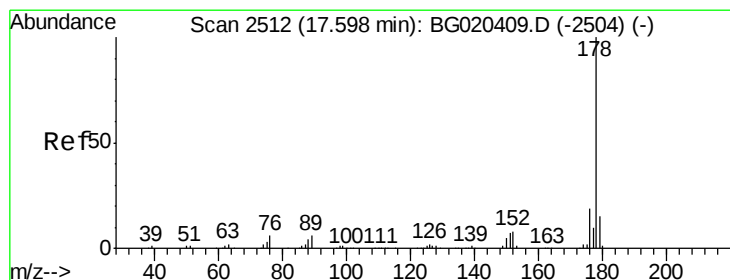
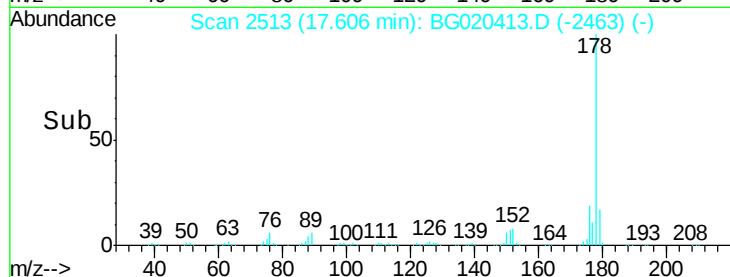
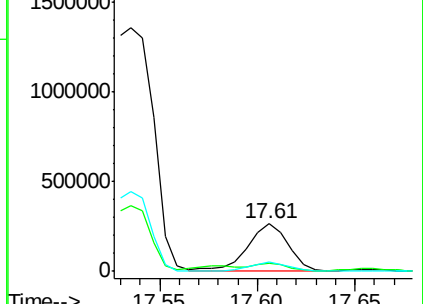
176 19.1 15.3 22.9



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

Anthracene

Concen: 50.44 ng/ul

RT: 17.61 min Scan# 2513

Delta R.T. 0.01 min

Lab File: BG020413.D

Acq: 22 Dec 2015 17:35

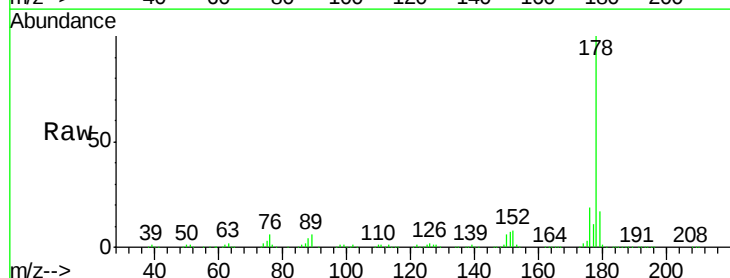
Tgt Ion:178 Resp: 366486

Ion Ratio Lower Upper

178 100

179 17.1 12.3 18.5

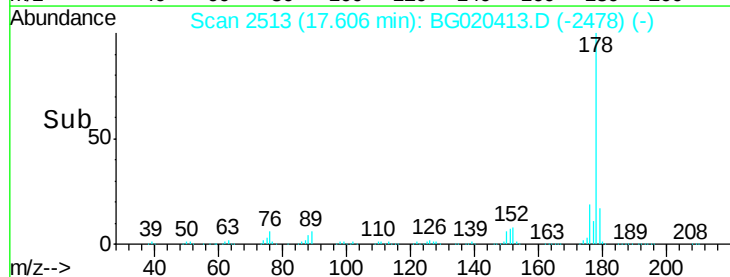
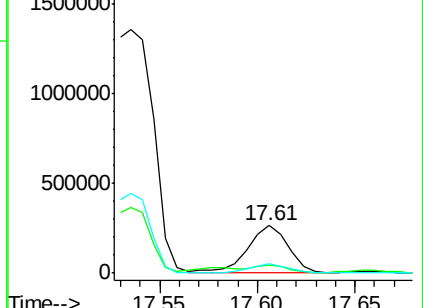
176 19.1 14.3 21.5

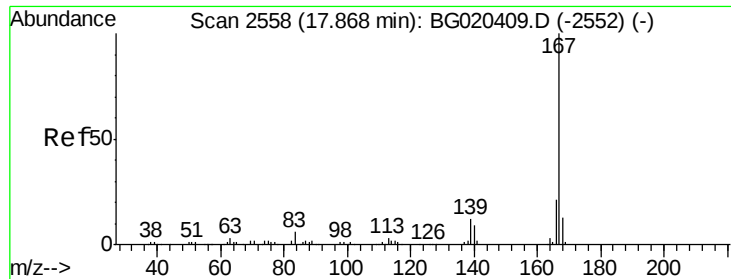


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#75

Carbazole

Concen: 30.27 ng/ul

RT: 17.87 min Scan# 2558

Delta R.T. 0.00 min

Lab File: BG020413.D

Acq: 22 Dec 2015 17:35

Instrument :

BNA_G

ClientSampleId :

D9N54ME

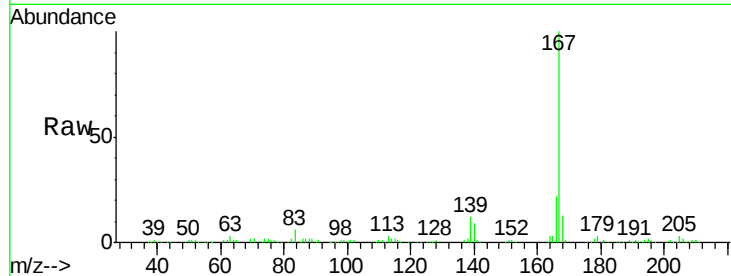
Tgt Ion:167 Resp: 184821

Ion Ratio Lower Upper

167 100

166 21.9 17.0 25.6

139 12.4 10.1 15.1



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

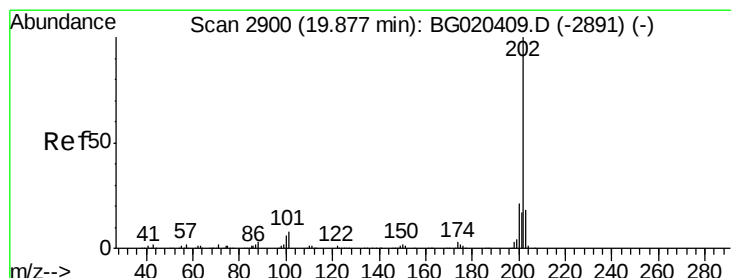
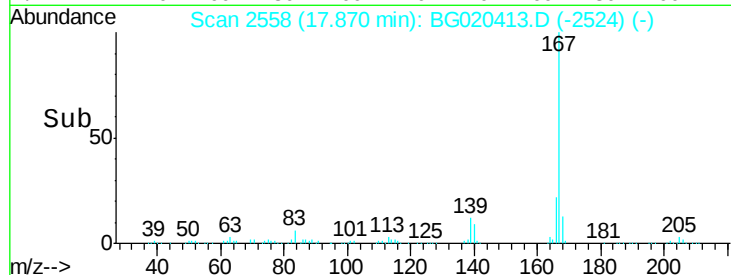
17.87

100000

50000

0

Time-->



#80

Pyrene

Concen: 145.89 ng/ul

RT: 19.89 min Scan# 2901

Delta R.T. 0.01 min

Lab File: BG020413.D

Acq: 22 Dec 2015 17:35

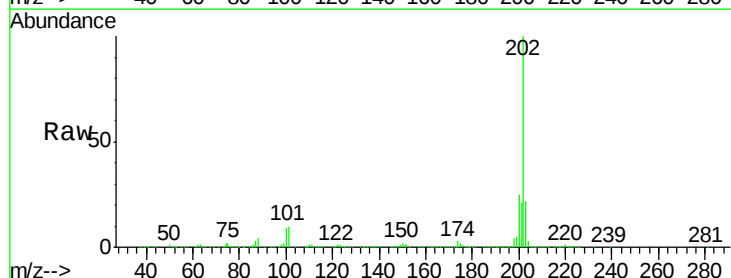
Tgt Ion:202 Resp: 1518307

Ion Ratio Lower Upper

202 100

101 10.0 7.0 10.4

100 8.7 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

19.89

1200000

1000000

800000

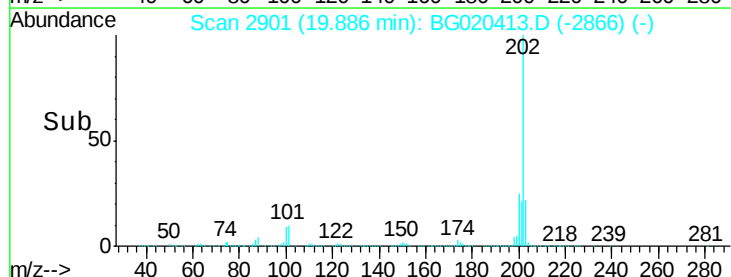
600000

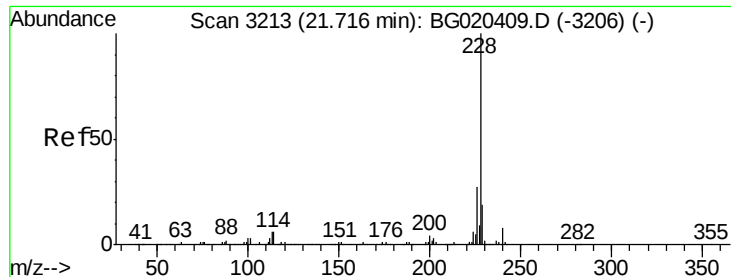
400000

200000

0

Time-->





#83

Benzo(a)anthracene

Concen: 42.81 ng/ul

RT: 21.72 min Scan# 3213

Delta R.T. 0.00 min

Lab File: BG020413.D

Acq: 22 Dec 2015 17:35

Instrument :

BNA_G

ClientSampleId :

D9N54ME

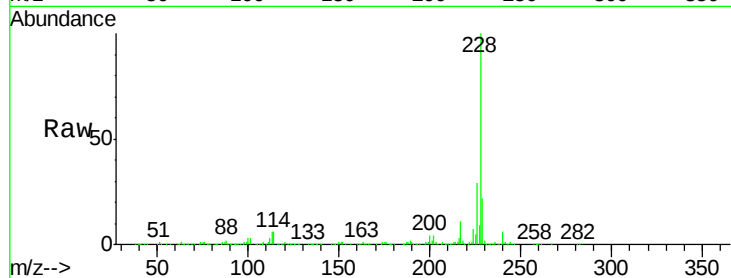
Tgt Ion:228 Resp: 429493

Ion Ratio Lower Upper

228 100

229 21.7 15.8 23.8

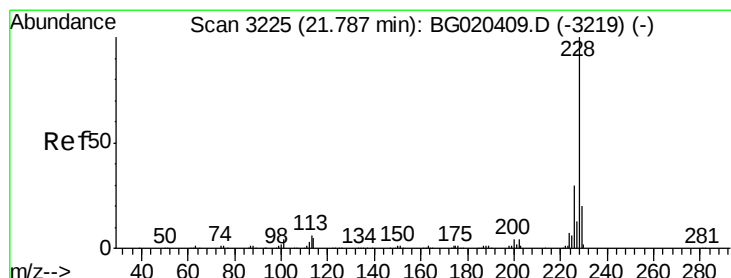
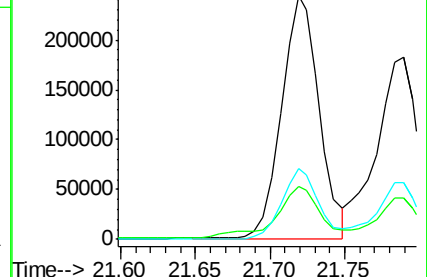
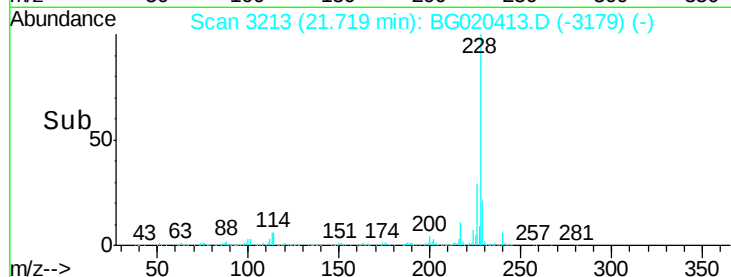
226 28.9 21.8 32.6



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



#85

Chrysene

Concen: 36.81 ng/ul

RT: 21.79 min Scan# 3225

Delta R.T. 0.00 min

Lab File: BG020413.D

Acq: 22 Dec 2015 17:35

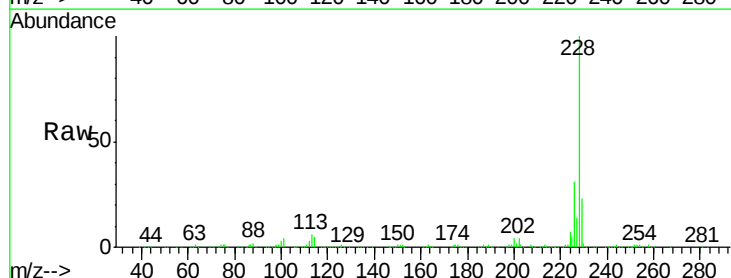
Tgt Ion:228 Resp: 347816

Ion Ratio Lower Upper

228 100

226 31.0 23.9 35.9

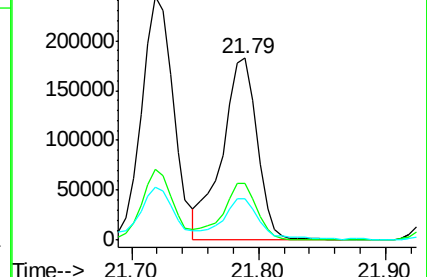
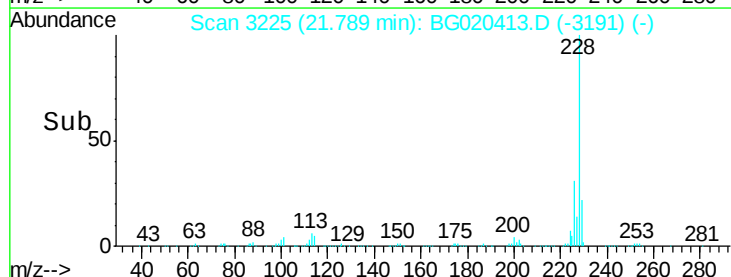
229 22.7 15.6 23.4

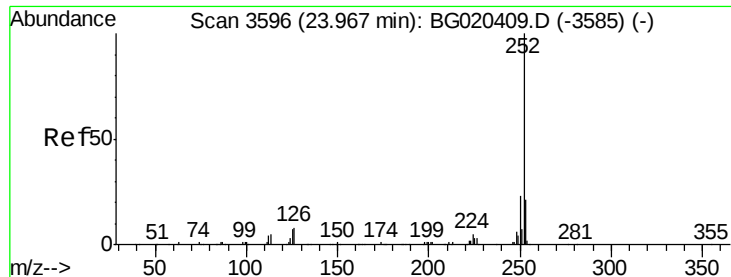


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#88

Benzo(b)fluoranthene

Concen: 19.59 ng/u1

RT: 23.97 min Scan# 3596

Delta R.T. 0.00 min

Lab File: BG020413.D

Acq: 22 Dec 2015 17:35

Instrument :

BNA_G

ClientSampleId :

D9N54ME

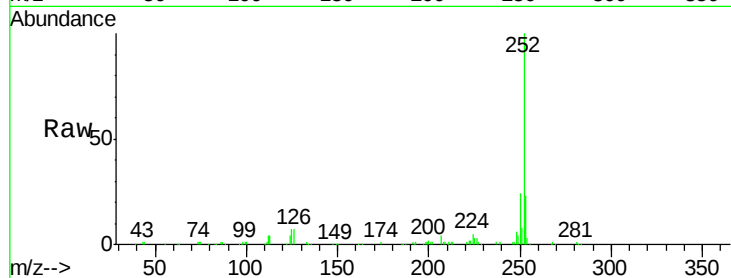
Tgt Ion:252 Resp: 197785

Ion Ratio Lower Upper

252 100

253 22.9 16.7 25.1

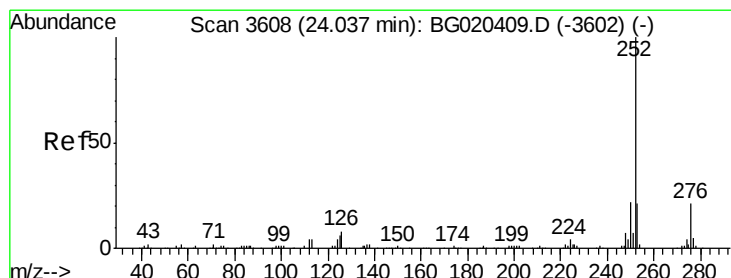
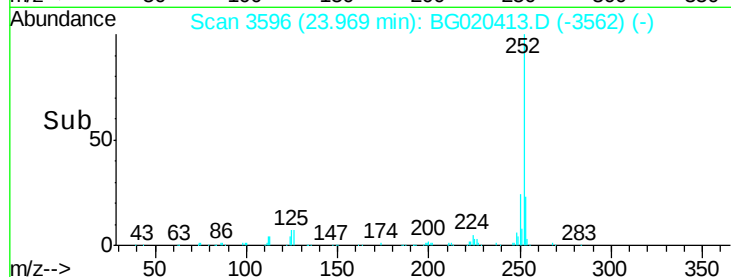
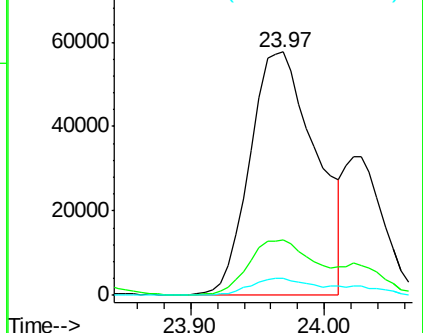
125 6.8 6.2 9.2



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#89

Benzo(k)fluoranthene

Concen: 6.78 ng/u1

RT: 24.03 min Scan# 3606

Delta R.T. -0.01 min

Lab File: BG020413.D

Acq: 22 Dec 2015 17:35

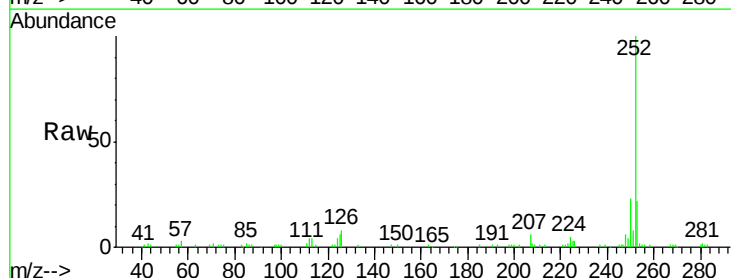
Tgt Ion:252 Resp: 65727

Ion Ratio Lower Upper

252 100

253 21.7 17.9 26.9

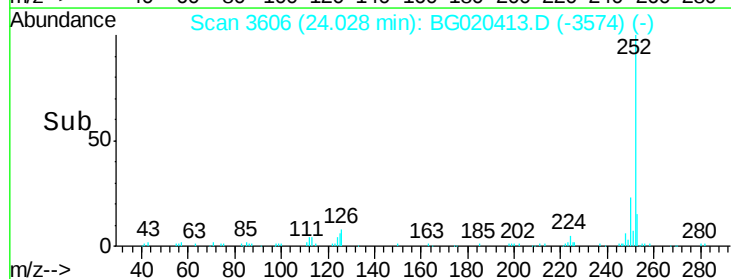
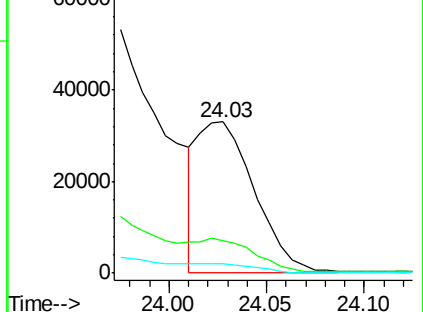
125 6.3 5.8 8.6

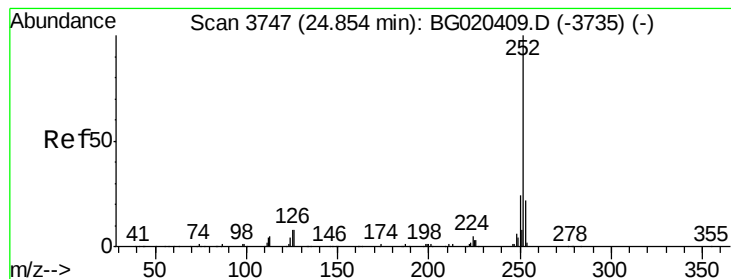


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#91

Benzo(a)pyrene

Concen: 11.30 ng/ul

RT: 24.85 min Scan# 3746

Delta R.T. -0.00 min

Lab File: BG020413.D

Acq: 22 Dec 2015 17:35

Instrument :

BNA_G

ClientSampleId :

D9N54ME

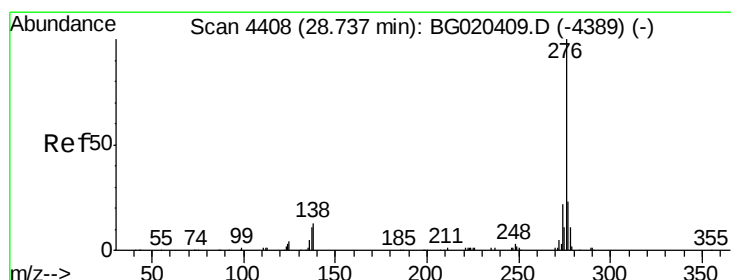
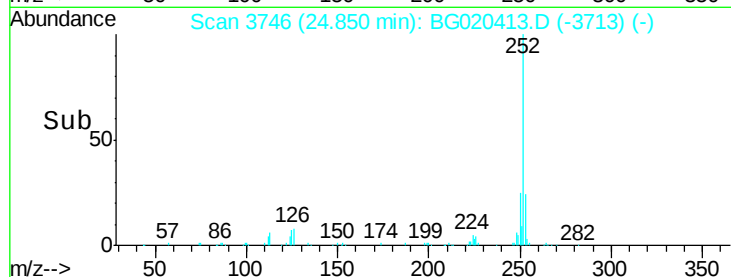
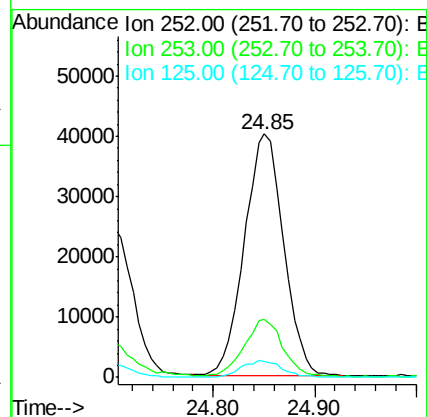
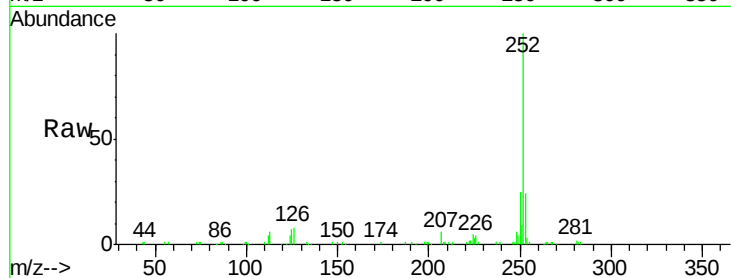
Tgt Ion:252 Resp: 108211

Ion Ratio Lower Upper

252 100

253 23.9 17.0 25.4

125 6.7 6.2 9.4



#92

Indeno(1,2,3-cd)pyrene

Concen: 2.95 ng/ul

RT: 28.73 min Scan# 4406

Delta R.T. -0.01 min

Lab File: BG020413.D

Acq: 22 Dec 2015 17:35

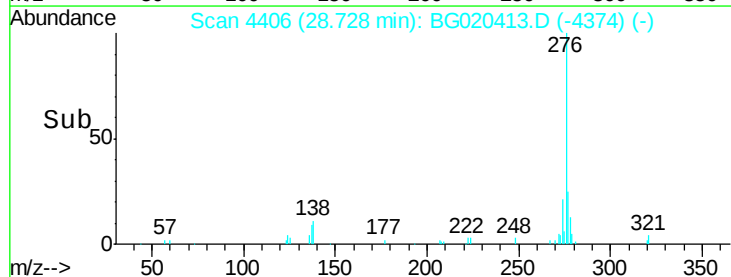
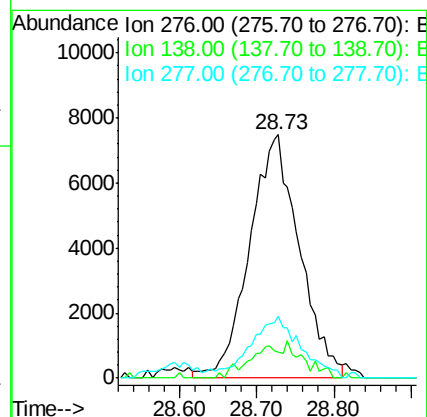
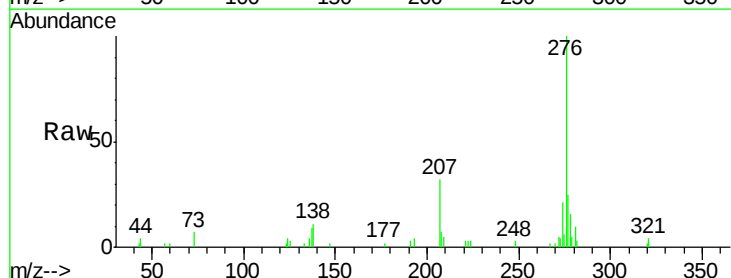
Tgt Ion:276 Resp: 33681

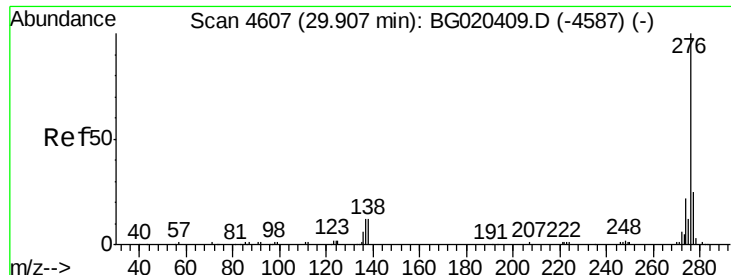
Ion Ratio Lower Upper

276 100

138 10.9 11.4 17.0#

277 25.2 17.4 26.0





#94

Benzo(g,h,i)perylene

Concen: 2.45 ng/ul

RT: 29.89 min Scan# 4603

Delta R.T. -0.02 min

Lab File: BG020413.D

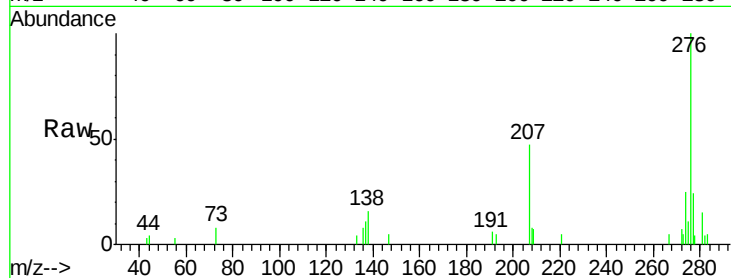
Acq: 22 Dec 2015 17:35

Instrument :

BNA_G

ClientSampleId :

D9N54ME



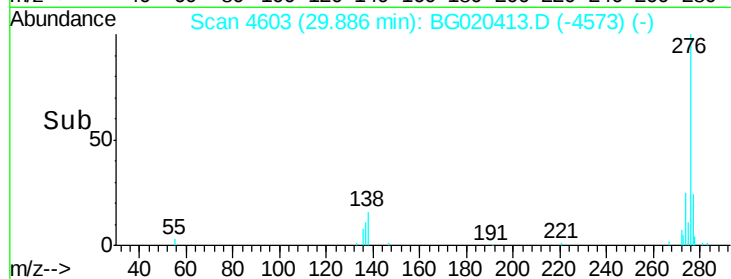
Tgt Ion:276 Resp: 22867

Ion Ratio Lower Upper

276 100

138 15.7 10.8 16.2

277 24.4 19.9 29.9



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

